



## CASE COVER SHEET

City of Rockwall  
Planning and Zoning Department  
385 S. Goliad Street  
Rockwall, Texas 75087

PLANNING & ZONING CASE NO.

PLANNING & ZONING FEE

### PLATTING APPLICATION

MASTER PLAT  
PRELIMINARY PLAT  
FINAL PLAT  
REPLAT  
AMENDING OR MINOR PLAT  
PLAT REINSTATEMENT REQUEST

### SITE PLAN APPLICATION

SITE PLAN  
AMENDED SITE PLAN/ELEVATIONS/LANDSCAPING

### ZONING APPLICATION

ZONING CHANGE  
SPECIFIC USE PERMIT  
PD DEVELOPMENT PLAN

### OTHER APPLICATION

TREE REMOVAL  
VARIANCE REQUEST/SPECIAL EXCEPTIONS

## RECORD OF RECOMMENDATIONS, VOTING RECORDS, AND CONDITIONS OF APPROVAL

ARCHITECTURE REVIEW BOARD

PLANNING AND ZONING COMMISSION

CITY COUNCIL READING #1

CITY COUNCIL READING #2

CONDITIONS OF APPROVAL

NOTES



# DEVELOPMENT APPLICATION

City of Rockwall  
Planning and Zoning Department  
385 S. Goliad Street  
Rockwall, Texas 75087

STAFF USE ONLY

PLANNING & ZONING CASE NO.

NOTE: THE APPLICATION IS NOT CONSIDERED ACCEPTED BY THE CITY UNTIL THE PLANNING DIRECTOR AND CITY ENGINEER HAVE SIGNED BELOW.

DIRECTOR OF PLANNING:

CITY ENGINEER:

PLEASE CHECK THE APPROPRIATE BOX BELOW TO INDICATE THE TYPE OF DEVELOPMENT REQUEST [SELECT ONLY ONE BOX]:

**PLATTING APPLICATION FEES:**

- MASTER PLAT (\$100.00 + \$15.00 ACRE)<sup>1</sup>
- PRELIMINARY PLAT (\$200.00 + \$15.00 ACRE)<sup>1</sup>
- FINAL PLAT (\$300.00 + \$20.00 ACRE)<sup>1</sup>
- REPLAT (\$300.00 + \$20.00 ACRE)<sup>1</sup>
- AMENDING OR MINOR PLAT (\$150.00)
- PLAT REINSTATEMENT REQUEST (\$100.00)

**SITE PLAN APPLICATION FEES:**

- SITE PLAN (\$250.00 + \$20.00 ACRE)<sup>1</sup>
- AMENDED SITE PLAN/ELEVATIONS/LANDSCAPING PLAN (\$100.00)

**ZONING APPLICATION FEES:**

- ZONING CHANGE (\$200.00 + \$15.00 ACRE)<sup>1</sup>
- SPECIFIC USE PERMIT (\$200.00 + \$15.00 ACRE)<sup>1 & 2</sup>
- PD DEVELOPMENT PLANS (\$200.00 + \$15.00 ACRE)<sup>1</sup>

**OTHER APPLICATION FEES:**

- TREE REMOVAL (\$75.00)
- VARIANCE REQUEST/SPECIAL EXCEPTIONS (\$100.00)<sup>2</sup>

**NOTES:**

<sup>1</sup>: IN DETERMINING THE FEE, PLEASE USE THE EXACT ACREAGE WHEN MULTIPLYING BY THE PER ACRE AMOUNT. FOR REQUESTS ON LESS THAN ONE ACRE, ROUND UP TO ONE (1) ACRE.

<sup>2</sup>: A \$1,000.00 FEE WILL BE ADDED TO THE APPLICATION FEE FOR ANY REQUEST THAT INVOLVES CONSTRUCTION WITHOUT OR NOT IN COMPLIANCE TO AN APPROVED BUILDING PERMIT.

## PROPERTY INFORMATION [PLEASE PRINT]

|                  |                                  |     |    |       |
|------------------|----------------------------------|-----|----|-------|
| ADDRESS          | NWC of Hwy 205 and Future FM 549 |     |    |       |
| SUBDIVISION      | Creekside Commons                | LOT | 18 | BLOCK |
| GENERAL LOCATION | NWC of Hwy 205 and Future FM 549 |     |    | A     |

## ZONING, SITE PLAN AND PLATTING INFORMATION [PLEASE PRINT]

|                 |                |                |                             |
|-----------------|----------------|----------------|-----------------------------|
| CURRENT ZONING  | Commercial (C) | CURRENT USE    | Undeveloped                 |
| PROPOSED ZONING | Commercial (C) | PROPOSED USE   | Restaurant w/ drive-through |
| ACREAGE         | 0.936          | LOTS [CURRENT] | 1                           |

**SITE PLANS AND PLATS:** BY CHECKING THIS BOX YOU ACKNOWLEDGE THAT DUE TO THE PASSAGE OF HB3167 THE CITY NO LONGER HAS FLEXIBILITY WITH REGARD TO ITS APPROVAL PROCESS. AND FAILURE TO ADDRESS ANY OF STAFF'S COMMENTS BY THE DATE PROVIDED ON THE DEVELOPMENT CALENDAR WILL RESULT IN THE DENIAL OF YOUR CASE.

## OWNER/APPLICANT/AGENT INFORMATION [PLEASE PRINT/CHECK THE PRIMARY CONTACT/ORIGINAL SIGNATURES ARE REQUIRED]

|                                |                               |   |                     |
|--------------------------------|-------------------------------|---|---------------------|
| <input type="checkbox"/> OWNER | Creekside Commons Crossing LP | <input checked="" type="checkbox"/> APPLICANT | The Dimension Group |
| CONTACT PERSON                 | Michael Hampton               | CONTACT PERSON                                | Keaton Mai          |
| ADDRESS                        | [REDACTED]                    | ADDRESS                                       | [REDACTED]          |
| CITY, STATE & ZIP              | [REDACTED]                    | CITY, STATE & ZIP                             | [REDACTED]          |
| PHONE                          | [REDACTED]                    | PHONE   | [REDACTED]          |
| E-MAIL                         | [REDACTED]                    | E-MAIL  | [REDACTED]          |

## NOTARY VERIFICATION [REQUIRED]

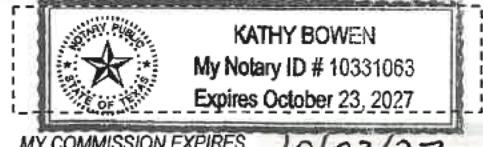
BEFORE ME, THE UNDERSIGNED AUTHORITY, ON THIS DAY PERSONALLY APPEARED Michael Hampton [OWNER] THE UNDERSIGNED, WHO STATED THE INFORMATION ON THIS APPLICATION TO BE TRUE AND CERTIFIED THE FOLLOWING:

"I HEREBY CERTIFY THAT I AM THE OWNER FOR THE PURPOSE OF THIS APPLICATION; ALL INFORMATION SUBMITTED HEREIN IS TRUE AND CORRECT; AND THE APPLICATION FEE OF \$275, TO COVER THE COST OF THIS APPLICATION, HAS BEEN PAID TO THE CITY OF ROCKWALL ON THIS THE 5th DAY OF September, 2025. BY SIGNING THIS APPLICATION, I AGREE THAT THE CITY OF ROCKWALL (I.E. "CITY") IS AUTHORIZED AND PERMITTED TO PROVIDE INFORMATION CONTAINED WITHIN THIS APPLICATION TO THE PUBLIC. THE CITY IS ALSO AUTHORIZED AND PERMITTED TO REPRODUCE ANY COPYRIGHTED INFORMATION SUBMITTED IN CONJUNCTION WITH THIS APPLICATION, IF SUCH REPRODUCTION IS ASSOCIATED OR IN RESPONSE TO A REQUEST FOR PUBLIC INFORMATION."

GIVEN UNDER MY HAND AND SEAL OF OFFICE ON THIS THE 5th DAY OF September 2025

OWNER'S SIGNATURE

NOTARY PUBLIC IN AND FOR THE STATE OF TEXAS



KATHY BOWEN  
My Notary ID # 10331063  
Expires October 23, 2027

MY COMMISSION EXPIRES

10/23/27



**Valley Bell Enterprises, LLC**  
101 E. Cherokee St.  
Jacksonville, TX 75766  
Phone (903) 586-1524  
Fax (903) 586-9644

September 9, 2025

City of Rockwall  
Attn: Planning Department  
385 S. Goliad  
Rockwall, Texas 75087

**Via Hand Delivery**

RE: Variance Request Letter for Proposed Taco Bell at Creekside Commons in South Rockwall

To Whom it May Concern:

Valley Bell Enterprises, LLC (“VBE”) proposes to construct a Taco Bell with a drive through to be located on a portion of Lot 18 in the Creekside Commons Addition in south Rockwall. The property is approximately 0.936 acres. VBE will develop and then lease the property to Southern Multifoods, LLC, a Taco Bell franchisee with 121 locations in Texas, including the restaurant locations in Lavon, Royse City, and Fate. Southern Multifoods, LLC has also operated the Taco Bell on Ridge Road in Rockwall for over twenty years and wishes to open a second location in Rockwall to serve more members of the community. Drew Durrett is the controlling manager of both VBE and Southern Multifoods, LLC.

In connection with the Planning and Zoning Commission hearing on September 30, 2025, please find enclosed the following information:

1. Site Plan
2. Landscape Plan
3. Photometric Plan
4. Lighting Cut Sheets
5. Building Elevations Plans
6. Material Sample Board

It is VBE’s intention to satisfy all the City’s ordinances and also match the building materials used by McDonald’s and 7-Eleven currently operating in the Creekside Commons development. However, VBE recognizes that the Taco Bell building does not meet the City’s ordinance requiring all structures less than 6,000 square feet to have a pitched roof system. Therefore, VBE is respectfully requesting a variance to this ordinance and is proposing the following compensatory measures:

1. Roof ladder and hatch will be located internally and invisible from public view.
2. The front / primary public right of way elevation consists of 48% stone.
3. All four elevations consist of more than City minimum 90% masonry requirement.
4. Projection length of entry elements on front and side elevations exceeds minimum required.
5. Extra elements (Pilasters) added to side entry elevation, pre-pay window on drive-thru elevation, and rear building corner
6. Provide a 25' landscape buffer along FM 549 (exceeding the 10' required landscape buffer) to comply with staff's recommendation to provide sufficient planting space outside of the existing utility easements.

Thank you for your consideration, and we look forward to discussing our project further with the City. Should you have any questions or need any additional information, please do not hesitate to contact me at 903-589-2005.

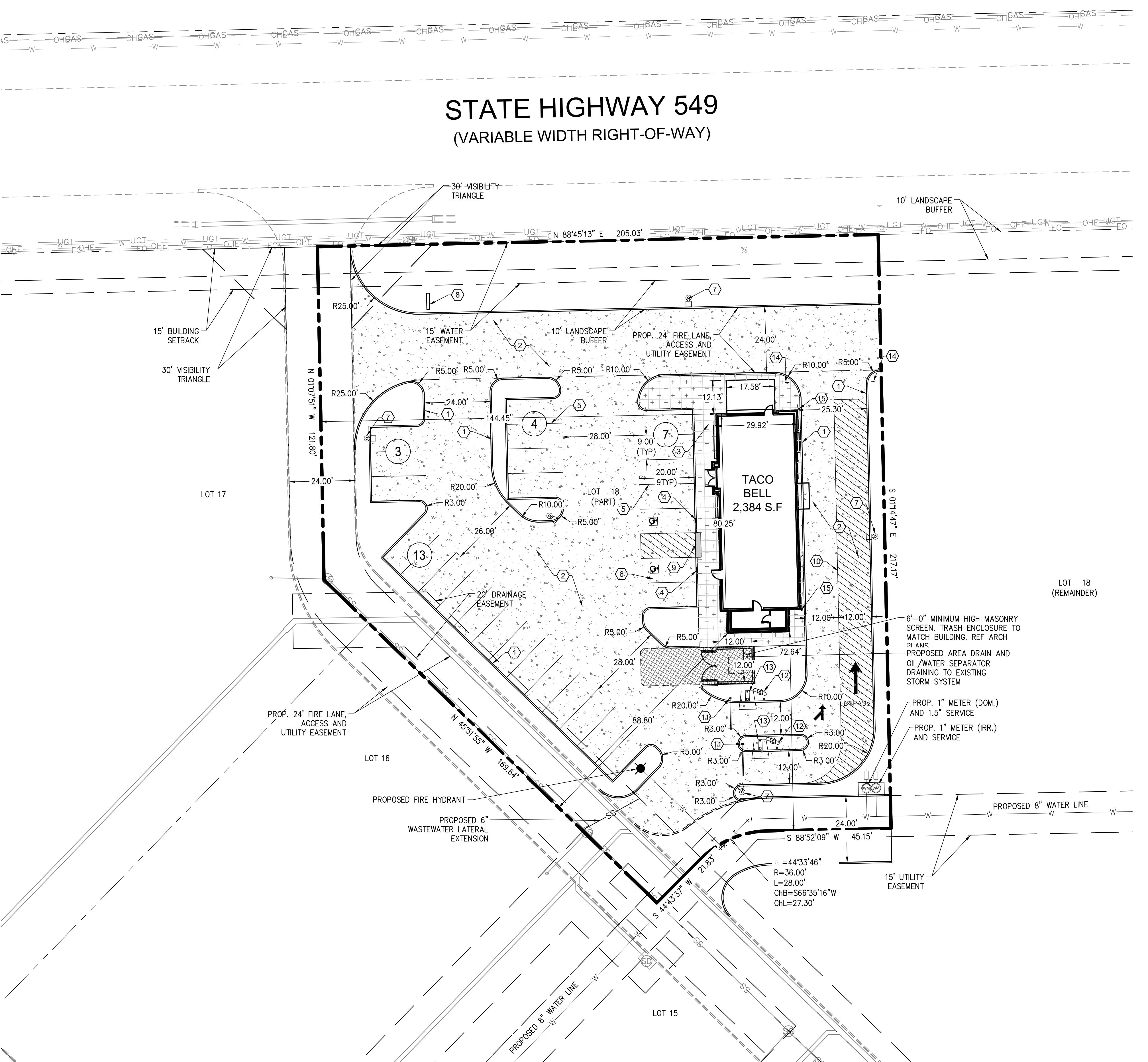
Regards,



Michael A. Stansberry  
Director of Development, General Counsel

MAS

Enclosures



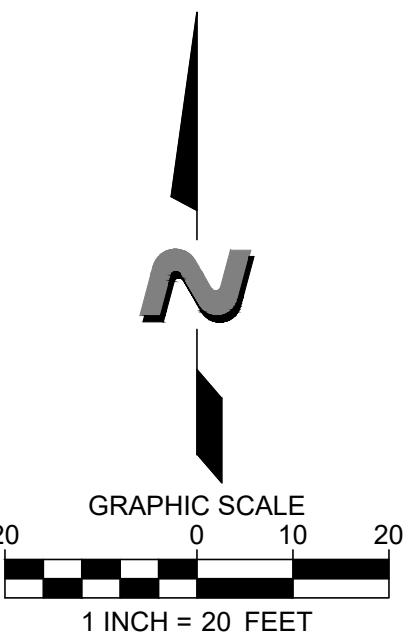
**CAUTION NOTICE TO CONTRACTORS**  
THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUCH CALL 811 AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THESE PLANS.



## STATE HIGHWAY 549 (VARIABLE WIDTH RIGHT-OF-WAY)

### SITE PLAN KEYNOTES:

- ① CONSTRUCT 6" CURB & GUTTER
- ② CONSTRUCT 6" CONCRETE PAVEMENT SECTION
- ③ INSTALL SIDEWALK PAVEMENT
- ④ INSTALL HANDICAP VAN AND CAR SIGN
- ⑤ 4" WHITE PAVEMENT SOLID PARKING STRIPES
- ⑥ HANDICAP VAN PARKING
- ⑦ STANDARD AREA LIGHT POLE
- ⑧ MONUMENT SIGN
- ⑨ NEW BARRIER FREE RAMPS
- ⑩ PROPOSED ESCAPE LANE
- ⑪ CLEARANCE BAR
- ⑫ MENU BOARD
- ⑬ ORDER SPEAKER
- ⑭ "ONE WAY DO NOT ENTER" SIGN
- ⑮ PROPOSED 4' BOLLARD



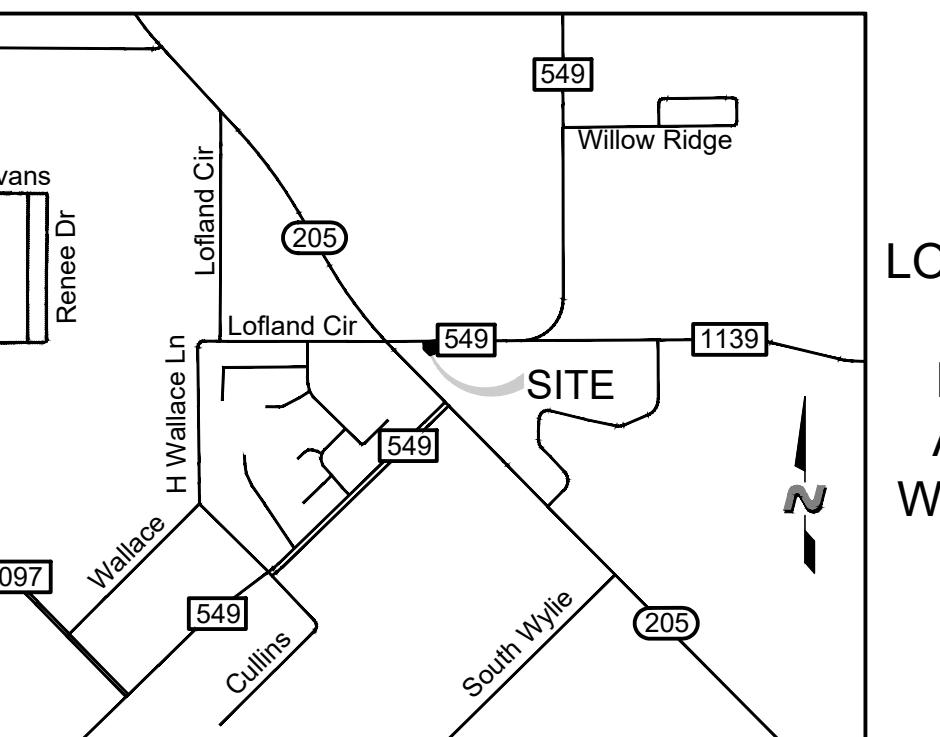
ALL RESPONSIBILITY FOR ADEQUACY OF DESIGN REMAINS WITH THE DESIGN ENGINEER. THE CITY OF ROCKWALL, IN REVIEWING AND RELEASING PLANS FOR CONSTRUCTION, ASSUMES NO RESPONSIBILITY FOR ADEQUACY OR ACCURACY OF DESIGN.

### GENERAL NOTES

1. The contractor shall assume sole and complete responsibility for his means and methods of construction, job site conditions and job site safety, including safety of all persons and property. This requirement shall apply continuously and not be limited to working hours. The contractor shall save, protect, indemnify defend and hold harmless the owner, the architect and the engineer from any claim of liability, real or alleged, arising out of the performance of any work on this project. The contractor shall name the owner, the architect and the engineer as "additional insured" on his insurance policies.
2. Existing above ground utilities have been shown based on information shown on a survey of the property. Underground utilities are shown based on recorded data and may not be complete or exact. The contractor shall be responsible for verifying the locations and depths of all above ground and underground utilities prior to construction. The contractor shall be responsible for damage to existing above ground or underground utilities, including those not shown on the plans. The contractor is advised to contact the city and all franchise utility companies, easement holders, etc. at least 48 hours prior to beginning excavation in the vicinity of any underground utility.
3. The contractor shall comply with all building codes and regulations, federal, state, county, and city safety codes and inspection requirements.
4. The contractor shall provide dust protection during construction. All trash and debris shall be picked up at all times. Commercial construction debris/solid waste hauler permit required.
5. There will be no outside storage or above ground storage tanks. (Subsection 01.05, of Article 05, UDC)
6. Per the Engineering Standards of Design and Construction, dumpster areas will need to drain to oil/water separator and then to storm lines.

| USE                       | COMMERCIAL (DRIVE-THRU RESTAURANT) |
|---------------------------|------------------------------------|
| LOT AREA                  | 40,751.89 S.F. (0.936 ACRES)       |
| BUILDING SQUARE FOOTAGE   | 2,384 S.F.                         |
| FAR                       | 0.06:1                             |
| BUILDING HEIGHT           | 23'-0"                             |
| TOTAL PERVIOUS COVER      | 8,743 S.F. OR 21%                  |
| TOTAL IMPERVIOUS COVER    | 32,008 S.F. OR 79%                 |
| PARKING REQUIRED          | 27 SPACES (1/100 G.F.A.)           |
| PARKING PROVIDED          | 27 SPACES                          |
| HANDICAP PARKING REQUIRED | 2 SPACES                           |
| HANDICAP PARKING PROVIDED | 2 SPACES                           |

| PAVING LEGEND |              |  |
|---------------|--------------|--|
|               | PARKING AREA | 6" THICK 4000 P.S.I. #4 REBAR AT 18" O.C.E.W. (6.5 SACK MIX) |
|               | DUMPSTER PAD | 7" THICK 4000 P.S.I. #4 REBAR AT 18" O.C.E.W. (6.5 SACK MIX) |
|               | SIDEWALK     | 4" THICK 3000 P.S.I. #3 REBAR AT 24" O.C.E.W. (5.5 SACK MIX) |



VICINITY MAP  
N.T.S.

APPROVED:  
I hereby certify that the above and foregoing site plan for a development in the City of Rockwall, Texas, was approved by the Planning & Zoning Commission of the City of Rockwall on the \_\_\_ day of \_\_\_ 2025.

WITNESS OUR HANDS, this \_\_\_ day of \_\_\_ 2025.

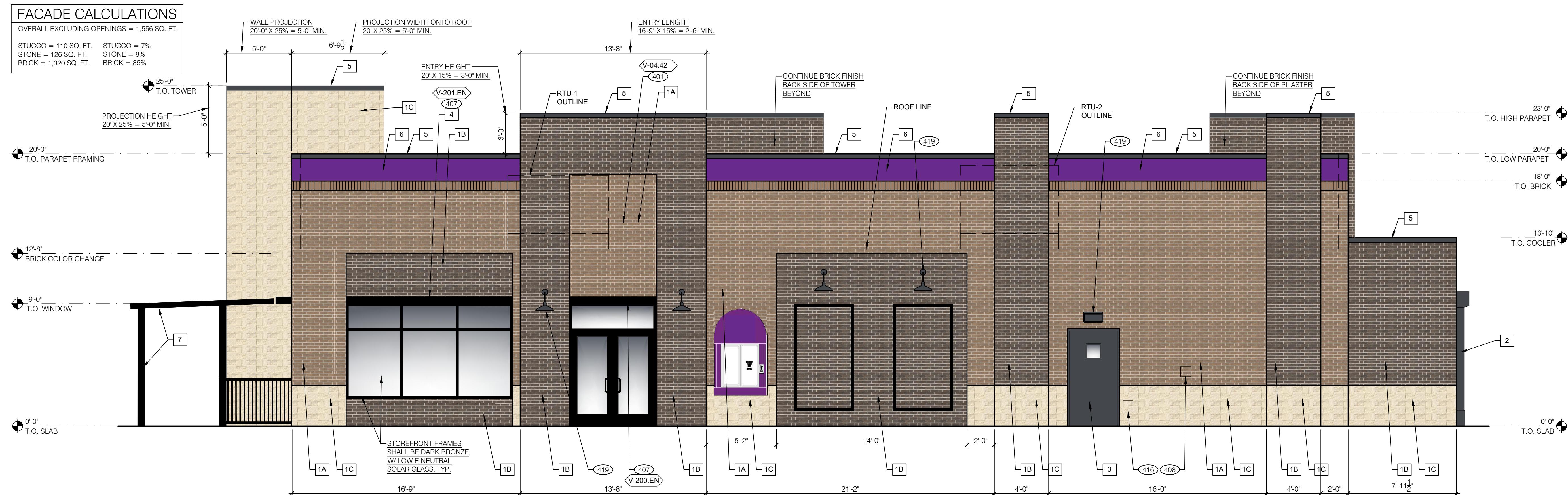
Planning & Zoning Commission, Chairman \_\_\_\_\_ Director of Planning and Zoning \_\_\_\_\_

**CITY OF ROCKWALL MONUMENTS**  
COR-8: ALUMINUM DISK STAMPED "CITY OF ROCKWALL SURVEY MONUMENT" AT THE NORTHERLY INTERSECTION OF SILVER VIEW LANE AND DIAMOND WAY DRIVE ±1 FOOT NORTHERLY OF CURB LINE IN CENTER OF CURVE.  
N: 7018063.113, E: 2609533.682 ELEVATION: 600.48'  
COR-9: BRASS DISK STAMPED "CITY OF ROCKWALL SURVEY MONUMENT" ON THE SOUTH SIDE OF DISCOVERY BOULEVARD AT THE SOUTHEAST CORNER OF CURB INLET ±180 FOOT EAST INTERSECTION OF DISCOVERY/CORPORATE.  
N: 7020550.132, E: 2607463.893 ELEVATION: 595.63'

**ENGINEER/APPLICANT** THE DESIGN GROUP  
10755 SANDHILL ROAD  
DALLAS, TX 75238  
PHONE: (214) 343-9400  
CONTACT: KEATON L. MAI, PE

**OWNER** PRUDENT DEVELOPMENT  
10755 SANDHILL ROAD  
DALLAS, TX 75238  
PHONE: (214) 271-4630  
CONTACT: MICHAEL HAMPTON

**DEVELOPER** VALLEY BELLS ENTERPRISES, LLC  
101 E. CHEROKEE STREET  
JACKSONVILLE, TX 75766  
PHONE: (903) 586-1524  
CONTACT: MIKE STRANSBERRY



SIDE ELEVATION - WEST - SECONDARY BUILDING FAÇADE

1/4" = 1'-0"

1

**PAINT NOTES** F

**SIGNAGE** E

**GENERAL NOTES** C

| TYPE            | MARK     | QTY | ITEM DESCRIPTION                                     | LOC  |
|-----------------|----------|-----|--|------|
| TOWER           | V-09.14W | 2   | 14' WHITE CHANNEL LETTERS VERTICAL                   | A4.1 |
| SIDE ENTRY      | V-09.14W | 2   | 14' WHITE CHANNEL LETTERS VERTICAL                   | A4.1 |
| DRIVE THRU      | V-101.DT | 1   | DT AWNING (OVER DT) 9' 0" X 4' 0" BLACK              | A4.1 |
| EYEBROW AWNINGS | V-201.EN | 1   | FRONT EYEBROW (WINDOW) 13' 8" X 6' H X 1' 4" D BLACK | A4.1 |
|                 | V-203.EN | 1   | DT EYEBROW (WINDOW) 7' 8" X 6' H X 1' 4" D BLACK     | A4.1 |
|                 | V-201.EN | 1   | SIDE ENTRY EYEBROW (WINDOW) 12' 6" H X 1' 4" D BLACK | A4.0 |

MISCELLANEOUS

A. SEE SHEET A.1 "WINDOW TYPES" FOR WINDOW ELEVATIONS.

SEALERS (REFER TO SPECS)

- A. SEALANT AT ALL WALL AND ROOF PENETRATIONS.
- B. SEALANT AT ALL WINDOW AND DOOR FRAMES AND JAMB. DO NOT SEAL SILL @ WINDOWS.
- C. APPLY NEOPRENE GASKET (CONT.) BETWEEN BUILDING AND CANOPY.

Critical Dimensions

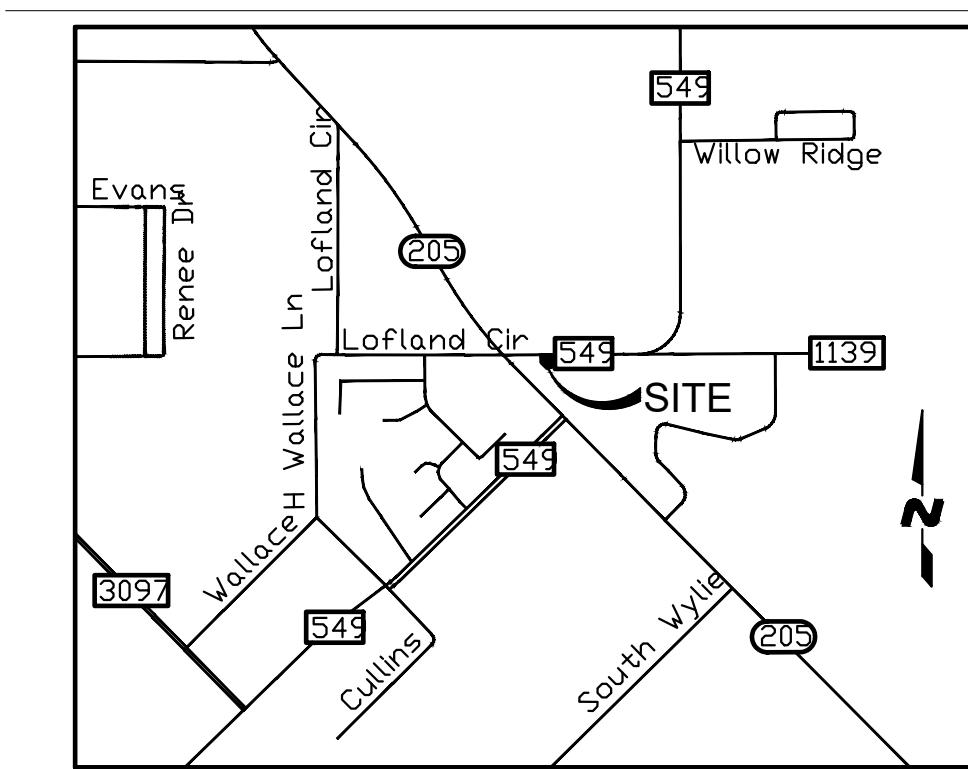
- A. REQUIRED CLEAR OPENING WIDTH TO ENSURE COORDINATION WITH STANDARD SIGNAGE/BUILDING ELEMENTS DIMENSIONS.

NOTE: NO EXTERIOR SIGNS ARE WITHIN THE SCOPE OF WORK COVERED BY THE BUILDING PERMIT APPLICATION. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE INSTALLATION OF ALL EXTERIOR SIGNS AND INSTALLATION OF REQUIRED BLOCKING AND ELECTRICAL CONNECTIONS FOR FINAL APPROVED SIGNS.

401 BUILDING SIGN BY VENDOR. REQUIRES ELECTRICAL, SEE ELECTRICAL PLANS.  
 407 METAL CANOPIES BY VENDOR. REQUIRES ELECTRICAL, SEE ELECTRICAL PLANS.  
 408 CO2 FILLER VALVE & COVER.  
 416 HOSE BIB BOX AT 18" A.F.F.  
 419 EXTERIOR LIGHT FIXTURE. SEE ELECTRICAL DRAWINGS.

**KEY NOTES**

A



**COLOR RENDERINGS**  
LOT 18, BLOCK A, CREEKSIDES COMMONS  
ADDITION

NWC STATE HIGHWAY 205 & F.M. 549  
A 0.936 ACRE TRACT OF LAND IN THE  
WILLIAM W. FORD SURVEY, ABST. NO 80  
CITY OF ROCKWALL, ROCKWALL  
COUNTY, TEXAS  
CITY PROJECT #SP2025-xxx  
August 27, 2025

| DATE       | REMARKS |
|------------|---------|
| 09-08-25   |         |
| END. MED40 |         |
| SEPT. 2023 |         |
| TBD        |         |
| TBD        |         |
| TBD        |         |
| LS         |         |
| WCS        |         |
| 25602      |         |

TACO BELL  
LOT 18, BLOCK A,  
CREEKSIDES COMMONS  
NWC STATE HWY 205 & FM 549  
ROCKWALL, TX



ENDEAVOR 2.0  
EXTERIOR  
ELEVATIONS

| ENGINEER/APPLICANT   | OWNER   | DEVELOPER   |
|--|---|---|
| THE DIMENSION GROUP<br>10755 SANDHILL ROAD<br>DALLAS, TX, 75238<br>PHONE: (214) 343-9400<br>CONTACT: KEATON L. MAI, PE | PRUDENT DEVELOPMENT<br>10755 SANDHILL ROAD<br>DALLAS, TX 75238<br>PHONE: (214) 271-4630<br>CONTACT: MICHAEL HAMPTON | VALLEY BELLS ENTERPRISES, LLC<br>101 E. CHEROKEE STREET<br>JACKSONVILLE, TX 75766<br>PHONE: (903) 586-1524<br>CONTACT: MIKE STRANSBERRY |

EXTERIOR FINISH SCHEDULE

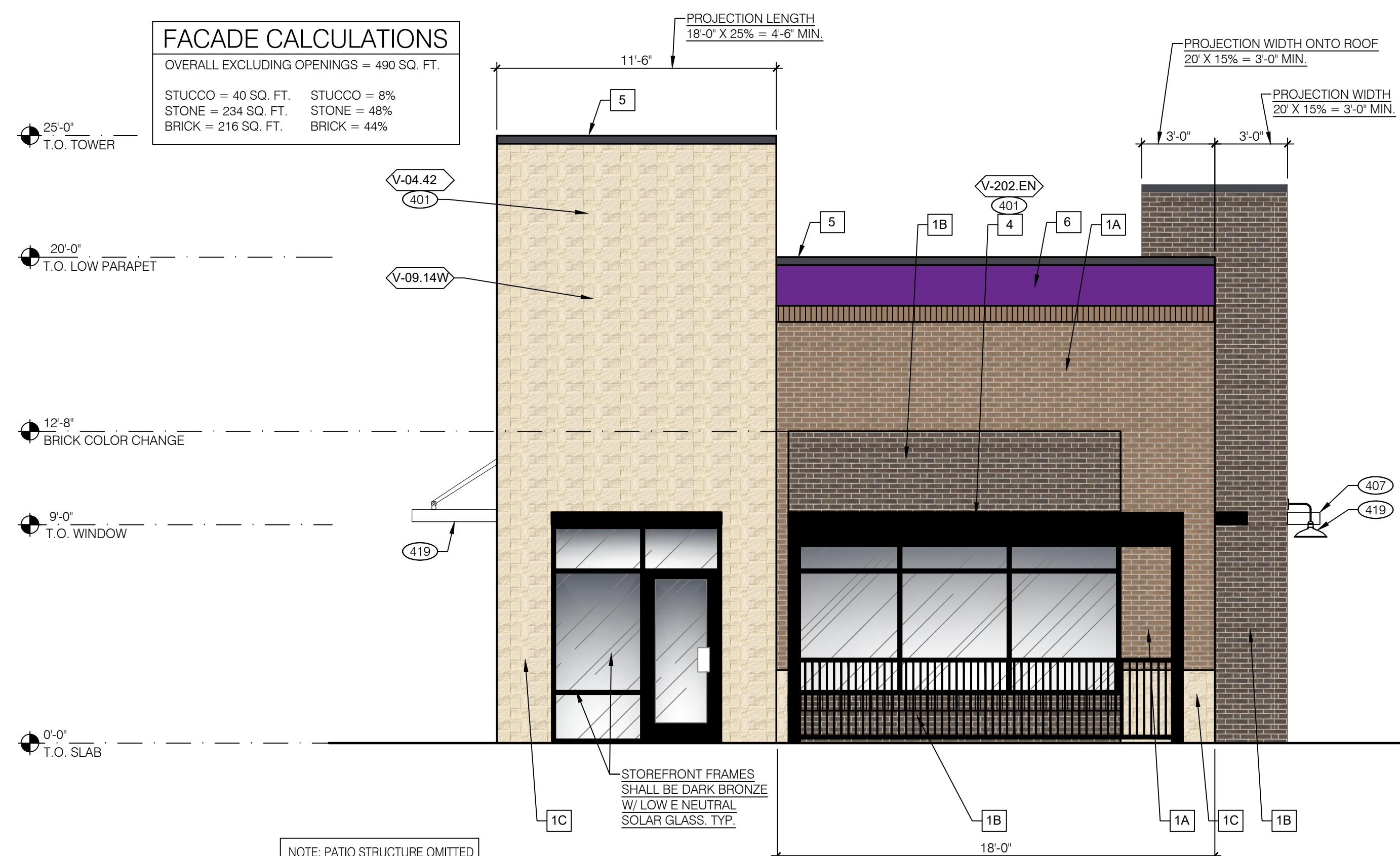
D

A4.0

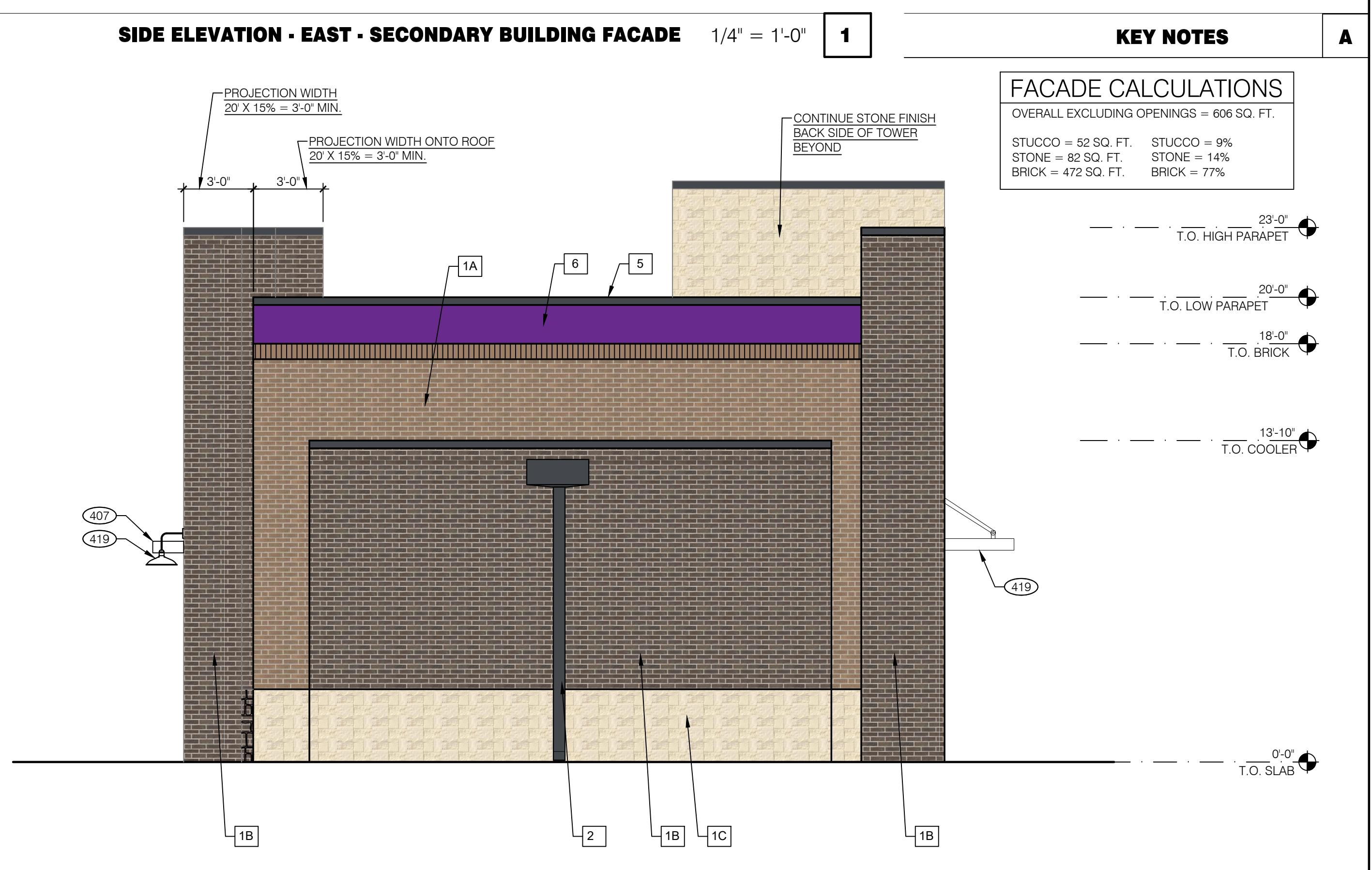
**LONNIE SMITH**  
ARCHITECT  
P.O. BOX 1925  
Richmond, KY 40475  
phone 859-771-5638



- 401 BUILDING SIGN BY VENDOR. REQUIRES ELECTRICAL, SEE ELECTRICAL PLANS.
- 402 DRIVE THRU WINDOW. SEE SHEET A1.0 AND A1.1.
- 407 METAL CANOPIES BY VENDOR. REQUIRES ELECTRICAL, SEE ELECTRICAL PLANS.
- 409 ASSUME D/T LANE SURFACE IS 6" BELOW THE FINISH FLOOR. REFER TO GRADING & SITE PLAN.
- 411 CONCRETE CURB.
- 419 EXTERIOR LIGHT FIXTURE. SEE ELECTRICAL DRAWINGS.



**FRONT ELEVATION - NORTH - PRIMARY BUILDING FAÇADE** 1/4" = 1'-0" **2**



**REAR ELEVATION - SOUTH - SECONDARY BUILDING FAÇADE** 1/4" = 1'-0" **3**

**TACO BELL**  
LOT 18, BLOCK A,  
CREEKSIDE COMMONS  
NWC STATE HWY 205 & FM 549  
PO BOX 111111, TX

The logo for Taco Bell, featuring a stylized hard shell taco above the word "TACO" in a bold, sans-serif font, with "BELL" in a smaller font below it.

# ENDEAVOR 2.0

## EXTERIOR ELEVATIONS

## A4.1



## PLANTING SPECIFICATIONS

### GENERAL

A. **QUALIFICATIONS OF LANDSCAPE CONTRACTOR**  
 1. ALL LANDSCAPE WORK SHOWN ON THESE PLANS SHALL BE PERFORMED BY A SINGLE FIRM PROFESSIONAL LANDSCAPE CONTRACTOR.  
 2. A LIST OF SUCCESSFULLY COMPLETED PROJECTS OF THIS TYPE, SIZE AND NATURE MAY BE REQUESTED BY THE OWNER FOR FURTHER QUALIFICATION MEASURES.  
 3. THE LANDSCAPE CONTRACTOR SHALL HOLD A VALID NURSERY AND FLORAL CERTIFICATE ISSUED BY THE TEXAS DEPARTMENT OF AGRICULTURE, AS WELL AS OPERATE UNDER A COMMERCIAL PESTICIDE APPLICATOR LICENSE ISSUED BY EITHER THE TEXAS DEPARTMENT OF AGRICULTURE OR THE TEXAS STRUCTURAL PEST CONTROL BOARD.

B. **SCOPE OF WORK**  
 1. WORK PERFORMED BY THE CONTRACTOR SHALL INCLUDE THE PURCHASING AND PAYMENT OF ALL MATERIALS, LABOR, GENERAL EQUIPMENT, LICENSES, TAXES AND ANY OTHER ITEMS THAT ARE NECESSARY FOR THE EXECUTION, INSTALLATION AND COMPLETION OF ALL WORK, SPECIFIED HEREIN AND / OR SHOWN ON THE LANDSCAPE PLANS, NOTES, AND DETAILS.  
 2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE LAWS, CODES AND REGULATIONS OF THE STATE AND LOCAL JURISDICTION OVER SUCH WORK, INCLUDING ALL INSPECTIONS AND PERMITS REQUIRED BY FEDERAL, STATE AND LOCAL AUTHORITIES IN SUPPLY, TRANSPORTATION AND INSTALLATION OF MATERIALS.  
 3. THE LANDSCAPE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITY LINES (WATER, SEWER, ELECTRICAL, TELEPHONE, GAS, CABLE, TELEVISION, ETC.) PRIOR TO THE START OF ANY WORK.

### PRODUCTS

A. ALL MANUFACTURED PRODUCTS SHALL BE NEW.  
 B. CONTAINER AND BALED-AND-BURLAPPED PLANTS:  
 1. FURRY LEAFED PLANTS, GREEN, FRESH, FREE OF DISEASE, INSECTS, EGGS, LARVAE, AND DEFECTS SUCH AS KNOTS, SUN SCALD, INJURIES, ABRASIONS, AND DISFIGUREMENT. ALL PLANTS WITHIN A SPECIES SHALL HAVE SIMILAR SIZE, AND SHALL BE OF A FORM TYPICAL FOR THE SPECIES. ALL TREES SHALL BE OBTAINED FROM SOURCES WITHIN 200 MILES OF THE PROJECT SITE, AND WITHIN SIMILAR CLIMATE ZONES.  
 2. ROOT SYSTEMS SHALL BE HEALTHY, DENSELY BRANCHED ROOT SYSTEMS, NON-POUNDED, FREE FROM ENCIRCLING AND/OR BURLED-AND-BURLAPPED (B&B), UNLESS SPECIFIED AS J-SHAPED ROOTS.  
 3. TREES SHALL BE PLANTED FROM CONTAINERS OR BALED-AND-BURLAPPED (B&B), UNLESS ACCEPTED ON THE PLANTING LEGEND. BARE-ROOT TREES ARE NOT ACCEPTABLE.  
 4. ANY PLANT DEEMED UNACCEPTABLE BY THE LANDSCAPE ARCHITECT OR OWNER SHALL BE IMMEDIATELY REMOVED FROM THE SITE AND SHALL BE REPLACED WITH AN ACCEPTABLE PLANT OF LIKE TYPE AND SIZE AT THE CONTRACTOR'S OWN EXPENSE. ANY PLANTS APPEARING TO BE UNHEALTHY, DISEASED, OR INJURED SHALL BE IMMEDIATELY REMOVED AND REPLACED BY THE LANDSCAPE ARCHITECT AND OWNER SHALL BE THE SOLE JUDGES AS TO THE ACCEPTABILITY OF PLANT MATERIAL.  
 5. ALL TREES SHALL BE STANDARD IN FORM, UNLESS OTHERWISE SPECIFIED. TREES WITH CENTRAL LEADERS WILL NOT BE ACCEPTED IF LEADER IS DAMAGED OR REMOVED. PRUNE ALL DAMAGED TWIGS AFTER PLANTING.  
 6. CALIPER MEASUREMENTS FOR STANDARD (SINGLE TRUNK) TREES SHALL BE AS FOLLOWS: SIX INCHES ABOVE THE ROOT FLARE FOR TREES UP TO AND INCLUDING FOUR INCHES IN CALIPER, AND TWELVE INCHES ABOVE THE ROOT FLARE FOR TREES EXCEEDING FOUR INCHES IN CALIPER.  
 7. MULCH: THE CALIPER OF THE TREE SHALL BE USED TO DETERMINE THE OVERALL CALIPER. MEASURED FROM THE TOP OF THE ROOT BALL, WHERE CALIPER MEASUREMENTS ARE USED, THE CALIPER SHALL BE CALCULATED AS ONE-HALF OF THE SUM OF THE CALIPER OF THE THREE LARGEST TRUNKS.  
 8. ANY TREE OR SHRUB SHOWN TO HAVE EXCESS SOIL PLACED ON TOP OF THE ROOT BALL, SO THAT THE ROOT FLARE HAS BEEN COMPLETELY COVERED, SHALL BE REJECTED.  
 C. SEED: ALL SEED SHALL BE PLANTED IN A FRESH, SOILLESS MEDIUM, WITH MAXIMUM PERCENTAGES OF PURITY, GERMINATION, AND MINIMUM PERCENTAGE OF WEED SEED AS INDICATED ON PLANS. EACH BAG OF SEED SHALL BE ACCOMPANIED BY A TAG FROM THE SUPPLIER INDICATING THE COMPOSITION OF THE SEED.  
 D. TOPSOIL: ALL SOIL SHALL BE FRESH, SOILLESS, LOAM TOPSOIL, FREE OF STONES LARGER THAN 1/4 INCH, FOREIGN MATTER, PLANTS, ROOTS, AND SEEDS.  
 E. COMPOST: WELL-COMPRESSED, STABLE, AND WEED-FREE ORGANIC MATTER, pH RANGE OF 5.5 TO 8; MOISTURE CONTENT 35 TO 55 PERCENT BY WEIGHT; 100 PERCENT PASSING THROUGH 3/4-INCH SIEVE; SOILLESS SALT CONTENT OF 5 TO 10 DECISEMISMO; NOT EXCEEDING 0.5 PERCENT INERT CONTAMINANTS AND FREE OF SUBSTANCES TOXIC TO PLANTINGS. NO MANURE OR ANIMAL-BASED PRODUCTS SHALL BE USED.  
 F. FERTILIZER: INORGANIC FERTILIZER CONSISTING OF NITROGEN, PHOSPHORUS, POTASSIUM, AND OTHER ELEMENTS IN PROPER AMOUNTS, AND RELEASE RATES RECOMMENDED IN A SOIL REPORT FROM A QUALIFIED SOIL TESTING AGENT, IF PROVIDED.  
 G. MULCH: SIZE AND TYPE AS INDICATED ON PLANS, FREE FROM DELETERIOUS MATERIALS AND SUITABLE AS A TOP DRESSING OF TREES AND SHRUBS.  
 H. TREE STAKING AND GUYLING:  
 1. USE EARTHEN METAL T-POSTS.  
 2. GUY AND TIE WIRE: ASTM A 61, CLASS 1, GALVANIZED-STEEL WIRE, 2-STRAND, TWISTED, 0.106 INCH DIAMETER.  
 3. STRAP CHAIN GUARD: EINSTEIN NYLON OR CANVAS AT LEAST 1-1/2 INCH WIDE, WITH ONE INCH HOLE TO PROTECT TREES FROM DAMAGE.  
 J. STEEL EDGING: PROFESSIONAL STEEL EDGING, 14 GAUGE THICK X 2 INCHES WIDE, FACTORY PAINTED DARK GREEN. ACCEPTABLE MANUFACTURERS INCLUDE COLMET OR APPROVED EQUAL.  
 K. PRE-EMERGENT HERBICIDES: ANY GRANULAR, NON-STAINING PRE-EMERGENT HERBICIDE THAT IS LABELED FOR THE SPECIFIC ORNAMENTALS OR TURF ON WHICH IT WILL BE UTILIZED. PRE-EMERGENT HERBICIDES SHALL BE APPLIED PER THE MANUFACTURER'S LABELED RATES.

### METHODS

A. **SOIL PREPARATION**  
 1. BEFORE STARTING WORK, THE LANDSCAPE CONTRACTOR SHALL VERIFY THAT THE GRADE OF ALL LANDSCAPE AREAS ARE WITHIN +/- 1' OF FINISH GRADE. THE CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY SHOULD ANY DISCREPANCIES EXIST.  
 2. **SOIL TESTING**  
 a. AFTER FINISH GRADES HAVE BEEN ESTABLISHED, CONTRACTOR SHALL HAVE SOIL SAMPLES FROM THE PROJECT'S LANDSCAPE AREAS TESTED BY AN ESTABLISHED SOIL TESTING LABORATORY. EACH SAMPLE TESTED SHALL BE FROM A DIFFERENT AREA AND SHALL BE A QUANTITY OF SOIL TAKEN FROM BETWEEN THE FINISH SURFACE AND 6" DEPTH. IF NO SAMPLE LOCATIONS ARE INDICATED ON THE PLANS, THE CONTRACTOR SHALL TAKE A MINIMUM OF THREE SAMPLES FROM VARIOUS REPRESENTATIVE LOCATIONS FOR TESTING.  
 b. THE CONTRACTOR SHALL HAVE THE SOIL TESTED FOR AGRICULTURAL PURPOSES RESULTS FOR THE following: NITROGEN, PHOSPHORUS, POTASSIUM, ORGANIC MATTER CONTENT, SALT (CEC), LIME, SODIUM ABSORPTION RATIO (SAR) AND BORON CONTENT.  
 c. THE CONTRACTOR SHALL ALSO SUBMIT THE PLANT'S PLANT LIST TO THE LABORATORY ALONG WITH THE SOIL SAMPLES.  
 d. THE CONTRACTOR PROVIDED BY THE LABORATORY SHALL CONTAIN RECOMMENDATIONS FOR THE FOLLOWING (AS APPROPRIATE): SEPARATE SOIL PREPARATION AND BACKFILL MIX, RECOMMENDATIONS FOR GENERAL ORNAMENTAL PLANTS, XERIC PLANTS, TURF, AND NATIVE SEED, AS WELL AS PRE-PLANT FERTILIZER APPLICATIONS AND RECOMMENDATIONS FOR ANY OTHER PLANTED SPECIES. THE CONTRACTOR SHALL ALSO PROVIDE A FERTILIZER PROGRAM FOR THE ESTABLISHED PLANT AND FOR LONG-TERM MAINTENANCE.  
 3. THE CONTRACTOR SHALL INSTALL SOIL AMENDMENTS AND FERTILIZERS PER THE SOIL REPORT RECOMMENDATIONS. ANY CHANGE IN COST DUE TO THE SOIL REPORT RECOMMENDATIONS, EITHER INCREASE OR DECREASE, SHALL BE SUBMITTED TO THE OWNER WITH THE REPORT.  
 4. **FOR TURF**  
 a. TURF: INCORPORATE THE FOLLOWING AMENDMENTS INTO THE TOP 8" OF SOIL BY MEANS OF ROTOTILLING AFTER CROSS-RIPPING:  
 i. NITROGEN STABILIZED ORGANIC AMENDMENT - 4 CU. YDS. PER 1,000 S.F.  
 ii. 10-10-10 PLANT TURF FERTILIZER (10-20-10 OR SIMILAR, SLOW RELEASE, ORGANIC) - 15 LBS PER 1,000 S.F.  
 iii. "CLAY BUSTER" OR EQUAL - USE MANUFACTURER'S RECOMMENDED RATE.  
 b. TREES, SHRUBS, AND PERENNIALS: INCORPORATE THE FOLLOWING AMENDMENTS INTO THE TOP 12" OF SOIL BY MEANS OF ROTOTILLING AFTER CROSS-RIPPING:  
 i. NITROGEN STABILIZED ORGANIC AMENDMENT - 4 CU. YDS. PER 1,000 S.F.  
 ii. 12-12-12 FERTILIZER (OR SIMILAR, ORGANIC, SLOW RELEASE) - 10 LBS. PER CU. YD.  
 iii. "CLAY BUSTER" OR EQUAL - USE MANUFACTURER'S RECOMMENDED RATE.  
 5. IN THE CONTEXT OF THESE PLANS, NOTES, AND SPECIFICATIONS, "FINISH GRADE" REFERS TO THE FINAL ELEVATION OF THE SOIL SURFACE (NOT TOP OF MULCH) AS INDICATED ON THE GRADING PLANS.  
 a. BEFORE STARTING WORK, THE LANDSCAPE CONTRACTOR SHALL VERIFY THAT THE ROUGH GRADES OF ALL LANDSCAPE AREAS ARE WITHIN +/- 1' OF FINISH GRADE. SEE SPECIFICATIONS FOR THE ROUGH GRADE OF ALL LANDSCAPE AREAS AND PLANTING AREAS.  
 b. CONSTRUCT AND MAINTAIN FINISH GRADES AS SHOWN ON GRADING PLANS, AND CONSTRUCT AND MAINTAIN SLOPES AS RECOMMENDED BY THE GEOTECHNICAL REPORT. ALL LANDSCAPE AREAS SHALL HAVE POSITIVE DRAINAGE AWAY FROM STRUCTURES AT THE MINIMUM SLOPE GRADE. TAPERED SLOPES AND FINISH GRADES MUST BE TAPERED TO THE SURFACE.  
 c. THE LANDSCAPE CONTRACTOR SHALL DETERMINE WHETHER OR NOT THE EXPORT OF ANY SOIL WILL BE REQUIRED, AND TAKE INTO ACCOUNT THE ROUGH GRADE PROVIDED, THE AMOUNT OF SOIL AMENDMENT TO BE ADDED BASED ON A SOIL TEST, PER SPECIFICATIONS, AND THE FINISH GRADES TO BE ESTABLISHED.  
 d. AFTER INSTALLING SOIL AMENDMENTS IN SHRUB AREAS, AND IN ORDER TO ALLOW FOR MULCH DEPTH, ENSURE THAT THE FINISH GRADE IMMEDIATELY ADJACENT TO WALKS AND OTHER AREAS IS APPROXIMATELY 18" AWAY FROM THE SURFACE.  
 e. AFTER INSTALLING SOIL AMENDMENTS IN TURF AREAS, ENSURE THAT THE FINISH GRADE IN AREA IMMEDIATELY ADJACENT TO WALKS AND OTHER WALKING SURFACES IS 1" BELOW FINISH GRADE. TAPERED SLOPES AND FINISH GRADES MUST BE TAPERED TO THE SURFACE.  
 f. SHOULD THERE BE CONFLICTS, LANDSCAPE SPECIFICATIONS ARE TO OVERCOME THE GRADING PLANS, GEOTECHNICAL REPORT, THESE NOTES AND PLANS, AND ACTUAL CONDITIONS, THE CONTRACTOR SHALL IMMEDIATELY BRING SUCH ITEMS TO THE ATTENTION OF THE LANDSCAPE ARCHITECT, GENERAL CONTRACTOR, AND OWNER.  
 g. ONCE SOIL PREPARATION IS COMPLETE, THE LANDSCAPE CONTRACTOR SHALL ENSURE THAT THERE ARE NO DEBRIS, TRASH, OR STONES LARGER THAN 1" REMAINING IN THE TOP 8" OF SOIL.

### CAUTION NOTICE TO CONTRACTORS

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUCH CALL 811 AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THESE PLANS.

B. **SUBMITTALS**  
 1. THE CONTRACTOR SHALL PROVIDE SUBMITTALS AND SAMPLES, IF REQUIRED, TO THE LANDSCAPE ARCHITECT, AND RECEIVE APPROVAL IN WRITING FOR SUCH SUBMITTALS BEFORE WORK COMMENCES.  
 2. SUBMITTALS SHALL INCLUDE PHOTOS OF PLANTS WITH A RULER OR MEASURING STICK FOR SCALE, PLANTING NOTES, AND A COPY OF THE MANUFACTURER'S PRE-EMERGENT HERBICIDE RECOMMENDATIONS FROM THE TESTING LAB (INCLUDING COMPOST AND FERTILIZER RATES AND TYPES, AND OTHER AMENDMENTS FOR TREES/SHRUB, TURF, AND SEED AREAS AS MAY BE APPROPRIATE).  
 3. SUBMITTALS ALSO INCLUDE MANUFACTURER CUT SHEETS FOR PLANTING ACCESSORIES SUCH AS TREE STAKES AND TIRES, EDGING, AND LANDSCAPE FABRICS (IF ANY).  
 4. WHERE MULTIPLE ITEMS ARE SHOWN ON A PAGE, THE CONTRACTOR SHALL CLEARLY INDICATE THE ITEM BEING CONSIDERED.

C. **GENERAL PLANTING**  
 1. EXCEPT AS TO BEPLANTED WITH ORNAMENTAL GRASSES, APPLY PRE-EMERGENT HERBICIDES AT THE MANUFACTURER'S RECOMMENDED RATE.  
 2. TRENCHING NEAR EXISTING TREES:  
 a. TRENCHING SHALL NOT DISTURB ROOTS 1-1/2" AND LARGER IN DIAMETER WITHIN THE CRITICAL ROOT ZONE (CRZ) OF EXISTING TREES, AND SHALL EXERCISE ALL POSSIBLE CARE AND PRECAUTIONS TO AVOID INJURY TO ROOTS, TRUNKS, AND BRANCHES. THE CRZ IS DEFINED AS A CIRCULAR AREA EXTENDING OUTWARD FROM THE TREE TRUNK, WITH A RADIUS EQUAL TO ONE EVERY 1' OF TRUNK DIAMETER AT BREAST HEIGHT (4.5' ABOVE THE GROUND AT THE TIME OF PLANTING).  
 b. ALL EXCAVATION WITHIN THE CRZ SHALL BE PERFORMED USING HAND TOOLS. NO MACHINE EXCAVATION OR TRENCHING OF ANY KIND SHALL BE ALLOWED WITHIN THE CRZ.  
 c. ALTERATION OR REMOVAL OF PIPE OR WIRE TRENCHES 1-1/2" AND LARGER IN DIAMETER, WHERE SUCH ROOTS ARE LOCATED, SHALL BE TUNNELLED UNDER THE PIPE, TUNNEL UNDER AND KEEP MOIST, CLOSE ALL TRENCHES WITHIN THE CANOPY DRIP LINES WITHIN 24 HOURS.  
 d. ALL SEVERED ROOTS SHALL BE HAND PRUNED WITH SHARP TOOLS AND ALLOWED TO DRY-AR. DO NOT USE ANY SORT OF SEALERS OR WOUND PAINTS.

C. **TREE PLANTING**  
 1. TREE PLANTING HOLES SHALL BE EXCAVATED TO MINIMUM WIDTH OF TWO TIMES THE WIDTH OF THE ROOTBALL, AND TO A DEPTH EQUAL TO THE DEPTH OF THE ROOTBALL LESS TWO TO FOUNCES.  
 2. STAKING: USE EARTHEN METAL T-POSTS, TAPERED STEEL STAKES, AND NYLON TIES TO STAKE THE TREE. REMOVE ANY GLAZING THAT MAY HAVE BEEN CAUSED DURING THE EXCAVATION OF THE HOLE.  
 3. FOR CONTAINER AND BOX TREES, TO REMOVE ANY POTENTIALLY GIRDLING ROOTS AND OTHER ROOT DEFECTS, THE CONTRACTOR SHALL REMOVE A 1" LAYER OFF OF THE SIDES AND BOTTOM OF THE ROOTBALL, AND ALL EXCAVATION SHALL BE DONE AS CLOSE AS POSSIBLE TO THE PLANTING HOLE.  
 4. INSTALL THE TREE ON UNDISTURBED SUBGRADE SO THAT THE TOP OF THE ROOTBALL IS TWO TO FOUR INCHES ABOVE THE SURROUNDING GRADE.  
 5. BACKFILL THE HOLE UTILIZING THE EXISTING TOPSOIL FROM ON-SITE. ROCKS LARGER THAN 1" IN DIAMETER SHALL BE REMOVED AND PLACED ON THE SURFACE. ADDITIONAL SOIL IS REQUIRED TO ACCOMPLISH THIS. USE STORED TOPSOIL FROM ON-SITE OR IMPORT ADDITIONAL TOPSOIL FROM OFF-SITE AT NO ADDITIONAL COST TO THE OWNER. IMPORTED TOPSOIL SHALL BE OF SIMILAR TEXTURAL CLASS AND COMPOSITION IN THE ON-SITE SOIL.  
 6. PLACEMENT OF THE TREE: CUT OFF BOTTOM 1/3 OF WIRE BASKET BEFORE PLACING TREE IN HOLE, CUT OFF AND REMOVE REMAINDER OF BASKET. PLANT TREE IN HOLE, TIE TO STAKE, AND TIE TO STAKE. PLANTING HOLE DEPTH SHALL BE 2" DEEP. USE EARTHEN METAL T-POSTS, TAPERED STEEL STAKES OR NYLON TIES, TWINE, ROPE, AND OTHER PACING MATERIAL. REMOVE AS MUCH BURLAP FROM AROUND ROOTBALL AS IS PRACTICAL.  
 7. PREVAILING WINDS: USE STAKES TO KEEP TREES UPRIGHT. SHOULD STAKING BE REQUIRED, THE TOTAL NUMBER OF STAKES (BEYOND THE MINIMUMS LISTED BELOW) WILL BE LEFT TO THE LANDSCAPE CONTRACTOR'S DISCRETION. SHOULD ANY TREES FALL OR LEAN, THE LANDSCAPE CONTRACTOR SHALL STRAIGHTEN THE TREE OR REPLACE IT SHOULD IT BECOME DAMAGED. TREE STAKING SHALL ADHERE TO THE FOLLOWING GUIDELINES:  
 a. 1-2" TREES: TWO STAKES PER TREE  
 b. 2-1/2"-4" TREES: THREE STAKES PER TREE  
 c. TREES OVER 4" CALIPER: GUY AS NEEDED  
 d. FOR BAB TREES: THREE STAKES PER TREE MINIMUM, QUANTITY AND POSITIONS AS NEEDED TO STABILIZE THE TREE.  
 8. UPON COMPLETION OF PLANTING, CONSTRUCT AN EARTH WATERING BASIN AROUND THE TREE. COVER THE INTERIOR OF THE TREE RING WITH MULCH (TYPE AND DEPTH PER PLANS). UNDER NO CIRCUMSTANCES SHALL THE MULCH BE PLACED ON THE TRUNK.  
 9. PLACEMENT OF MULCH: PLACEMENT OF MULCH SHALL BE BURIED WITHIN 6" OF THE TRUNK.  
 D. **SHRUB, PERENNIAL, AND GROUNDCOVER PLANTING**  
 1. DIG THE PLANTING HOLES AS WIDE AND 2' LESS DEEP THAN EACH PLANT'S ROOTBALL. INSTALL THE PLANT IN THE HOLE, BACKFILL AROUND THE PLANT WITH SOIL AMENDED PER SOIL TEST RECOMMENDATIONS.  
 2. PLANTING: PLANT COMPLETELY. INSTALL MULCH (TYPE AND DEPTH PER PLANS) OVER ALL PLANTING AREAS EXCEPT FOR SODDED AND SEEDED AREAS, LEAVING NO EXPOSED GROUND.

F. **SODDING**  
 1. SO VARIETY TO BE AS SPECIFIED ON THE LANDSCAPE PLAN.  
 2. LAY THE SOD WITHIN 24 HOURS FROM THE TIME OF STRIPPING. DO NOT LAY IF THE GROUND IS FROZEN.  
 3. LAY THE SOD TO FORM A SOLID MASS WITH TIGHTLY FITTED JOINTS. BUTT EDGES AND SIDES OF SOD STRIPS.  
 4. ROLL THE SOD ENSURE GOOD CONTACT OF THE SOD'S ROOT SYSTEM WITH THE SOIL.  
 5. WATER THE SOD THOROUGHLY WITH A FINE SPRAY IMMEDIATELY AFTER PLANTING TO OBTAIN AT LEAST SIX INCHES OF PENETRATION INTO THE SOIL BELOW THE SOD.  
 G. **MULCH**  
 1. INSTALL MULCH TOPDRESSING, TYPE AND DEPTH PER MULCH NOTE, IN ALL PLANTING AREAS AND TREE RINGS.  
 2. DO NOT INSTALL MULCH WITHIN 6" OF TREE ROOT FLARE AND WITHIN 24" OF HABITABLE STRUCTURES, EXCEPT AS MAY BE NOTED ON THESE PLANS. MULCH COVER WITHIN 6" OF CONCRETE WALKS AND CURBS SHALL NOT PROTRUDE ABOVE THE FINISH SURFACE OF THE WALKS AND CURBS. MULCH WITHIN 12" OF CURBS SHALL BE AT LEAST 3" LOWER THAN THE TOP OF CURB.  
 H. **CLEAN UP**  
 1. DURING LANDSCAPE PREPARATION AND PLANTING, KEEP ALL PAVEMENT CLEAN AND ALL WORK AREAS IN A NEAT, ORDERLY CONDITION.  
 2. REMOVE ALL EXCAVATED MATERIALS OFF THE PROJECT SITE.

I. **INSPECTION AND ACCEPTANCE**  
 1. UPON COMPLETION OF THE WORK, THE LANDSCAPE CONTRACTOR SHALL PROVIDE THE SITE CLEAN, FREE OF DEBRIS AND TRASH, AND SUITABLE FOR USE AS INTENDED. THE LANDSCAPE CONTRACTOR SHALL NOT LEAVE THE SITE UNTIL THE OWNER HAS INSPECTED THE WORK AND APPROVED IT.  
 2. WHEN THE INSPECTED PLANTING WORK DOES NOT MEET THE CONTRACT DOCUMENTS, THE LANDSCAPE CONTRACTOR SHALL REPLACE AND/OR REPAIR THE REJECTED WORK TO THE OWNER'S SATISFACTION WITHIN 24 HOURS.  
 3. THE LANDSCAPE MAINTENANCE PERIOD WILL NOT COMMENCE UNTIL THE LANDSCAPE WORK HAS BEEN INSPECTED AND FOUND TO BE ACCEPTABLE. AT THAT TIME, A WRITTEN NOTICE OF FINAL ACCEPTANCE WILL BE ISSUED BY THE OWNER, AND THE MAINTENANCE AND GUARANTEE PERIODS WILL COMMENCE.  
 J. **LANDSCAPE MAINTENANCE**  
 1. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL WORK SHOWN ON THESE PLANS FOR 90 DAYS BEYOND FINAL ACCEPTANCE OF ALL LANDSCAPE WORK BY THE OWNER. LANDSCAPE MAINTENANCE SHALL INCLUDE WEEKLY SITE VISITS FOR THE FOLLOWING ACTIONS (AS APPROPRIATE): PROPER PRUNING, RESTAKING OF TREES, RESTETING OF PLANTS THAT HAVE BEEN MOVED, AND ALL OTHER MAINTENANCE OF PLANTS, WALKS, CURBS, AND OTHER FEATURES. THE LANDSCAPE CONTRACTOR SHALL MAINTAIN THE IRRIGATION SYSTEM DUE TO FAULTY PARTS AND/OR WORKMANSHIP, AND THE APPROPRIATE WATERING OF ALL PLANTINGS. THE LANDSCAPE CONTRACTOR SHALL MAINTAIN THE IRRIGATION SYSTEM IN PROPER WORKING ORDER, WITH SCHEDULING ADJUSTMENTS BY SEASON TO MAXIMIZE WATER CONSERVATION.  
 2. SHOULD SEEDED AND SODDED AREAS NOT BE COVERED BY AN AUTOMATIC IRRIGATION SYSTEM, THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING THESE AREAS AND OBTAINING A FULL, HEALTHY STAND OF PLANTS AT NO ADDITIONAL COST TO THE OWNER.  
 3. TO ENSURE PLANT SURVIVAL AT THE END OF THE MAINTENANCE PERIOD, ALL OF THE FOLLOWING CONDITIONS MUST OCCUR:  
 a. THE LANDSCAPE SHALL SHOW ACTIVE, HEALTHY GROWTH (WITH EXCEPTIONS MADE FOR SEASONAL DORMANCY). ALL PLANTS NOT MEETING THIS CONDITION SHALL BE REJECTED AND PLACED BY THE LANDSCAPE CONTRACTOR PRIOR TO FINAL ACCEPTANCE.  
 b. ALL PLANTS SHALL BE CLEANED PRIOR TO FINAL ACCEPTANCE.  
 c. SODDED AREAS MUST BE ACTIVELY GROWING AND MUST REACH A MINIMUM HEIGHT OF 1 1/2 INCHES BEFORE FIRST MOWING. HYDROMULCHED AREAS SHALL SHOW ACTIVE, HEALTHY GROWTH. BARE AREAS LARGER THAN TWELVE SQUARE INCHES MUST BE RESODDED OR RESEEDED AS APPROPRIATE PRIOR TO FINAL ACCEPTANCE. ALL SODDED TURF SHALL BE NEATLY MOVED.  
 K. **WARRANTY PERIOD, PLANT GUARANTEE AND REPLACEMENTS**  
 1. THE LANDSCAPE CONTRACTOR SHALL GUARANTEE THE PLANTING OF TREES, SHRUBS, PERENNIALS, SOD, AND HYDROMULCH FOR ONE (1) YEAR FROM THE DATE OF THE OWNER'S FINAL ACCEPTANCE (90 DAYS FOR ANNUAL PLANTS). THE CONTRACTOR SHALL REPLACE, AT HIS OWN EXPENSE AND TO THE SATISFACTION OF THE OWNER, ANY PLANTS WHICH DIE IN THAT TIME, OR REPAIR ANY PORTIONS OF THE IRRIGATION SYSTEM WHICH OPERATE IMPROPERLY.  
 2. ALL PLANTS SHALL BE MOVED AND PLACED IN AN APPROPRIATE LOCATION AND PLANTED IN AN APPROPRIATE FASHION. THE LANDSCAPE CONTRACTOR SHALL ONLY BE RESPONSIBLE FOR REPLACEMENT OF PLANTS WHEN PLANT DEATH CANNOT BE ATTRIBUTED DIRECTLY TO OVERWATERING OR OTHER DAMAGE BY HUMAN ACTIONS.  
 L. **PROVIDE A MINIMUM OF (2) COPIES OF RECORD DRAWINGS TO THE OWNER UPON COMPLETION OF WORK.** A RECORD DRAWING IS A RECORD OF ALL CHANGES THAT OCCURRED IN THE FIELD AND THAT ARE DOCUMENTED THROUGH CHANGE ORDERS, ADDENDA, OR CONTRACTOR/CONSULTANT DRAWING MARKUPS.

D. **STEEL EDGING**

SCALE: NOT TO SCALE

PARKWAY OR ISLAND

OPEN LANDSCAPE



Being a tract of land situated in the William W. Ford Survey, Abstract No. 80, City of Rockwall, Rockwall County, Texas, being part of Lot 18, Block A of Creekside Commons Addition, an addition to the City of Rockwall, Rockwall County, Texas according to the plat thereof recorded in Instrument Number 2024000004925 of the Official Public Records of Rockwall County, Texas, and being part of that tract of land described in Special Warranty Deed to CREEKSIDE COMMONS CROSSING, LP, a Texas limited partnership recorded in Instrument Number 20220000021201 of the Official Public Records of Rockwall County, and being more particularly described by metes and bounds as follows:

Beginning at the northeast corner of Lot 17, Block A of said Creekside Commons Addition, said corner also being the northwest corner of said Lot 18, Block A, said corner also being in the south right-of-way line of State Highway 549 (variable width right-of-way);

Thence North 88 degrees 45 minutes 13 seconds East, along the south right-of-way line of said State Highway 549, a distance of 205.03 feet to a 1/2 inch iron rod with yellow plastic cap stamped "TXHS" set for corner;

Thence South 01 degrees 14 minutes 47 seconds East, traversing said Lot 18, Block A, a distance of 217.17 feet to a 1/2 inch iron rod with yellow plastic cap stamped "TXHS" set for corner;

Thence South 88 degrees 52 minutes 09 seconds West, continuing to traverse said Lot 18, Block A, a distance of 45.15 feet to a 1/2 inch iron rod with yellow plastic cap stamped "TXHS" set for corner, said corner being the beginning of a tangent curve to the left, having a delta of 44 degrees 33 minutes 46 seconds, a radius of 36.00 feet, and a chord bearing and distance of South 66 degrees 35 minutes 16 seconds West, 27.30 feet;

Thence in a southwesterly direction along said curve to the left, continuing to traverse said Lot 18, Block A, an arc length of 28.00 feet to a 1/2 inch iron rod with yellow plastic cap stamped "TXHS" set for corner;

Thence South 44 degrees 43 minutes 37 seconds West, continuing to traverse said Lot 18, Block A, a distance of 21.83 feet to an "X" cut in concrete set for corner, said corner being in the northeasterly line of Lot 15, Block A of said Creekside Commons Addition;

Thence North 45 degrees 51 minutes 55 seconds West, along the northeasterly line of Lots 15, 16, and 17, Block A of said Creekside Commons Addition, a distance of 169.64 feet to an "X" cut in concrete found for corner, said corner being an angle point in the easterly line of said Lot 17, Block A;

Thence North 01 degrees 07 minutes 51 seconds West, along the easterly line of said Lot 17, Block A, a distance of 121.80 feet to the POINT OF BEGINNING and containing 40,751 square feet or 0.936 acres of land.



# Mirada Medium (MRM)

## Outdoor LED Area Light



IP66 IK08



| OVERVIEW             |                             |
|----------------------|-----------------------------|
| Lumen Package        | 7,000 - 55,000              |
| Wattage Range        | 48 - 438                    |
| Efficacy Range (LPW) | 115 - 162                   |
| Weight lbs(kg)       | 30 (13.6)                   |
| Control Options      | IMSBT, ALB, ALS, 7-Pin, PCI |

### QUICK LINKS

[Ordering Guide](#)[Performance](#)[Photometrics](#)[Dimensions](#)

## FEATURES & SPECIFICATIONS

### Construction

- Rugged die-cast aluminum housing contains factory prewired driver and optical unit. Cast aluminum wiring access door located underneath.
- Designed to mount to square or round poles.
- Fixtures are finished with LSI's DuraGrip® polyester powder coat finishing process. The DuraGrip finish withstands extreme weather changes without cracking or peeling. Other standard LSI finishes available. Consult factory.
- Shipping weight: 37 lbs in carton.

### Optical System

- State-of-the-Art one piece silicone optic sheet delivers industry leading optical control with an integrated gasket to provide IP66 rated sealed optical chamber in 1 component.
- Proprietary silicone refractor optics provide exceptional coverage and uniformity in IES Types 2, 3, 4, 5W, FT, FTA, AM, and LC/RC.
- Silicone optical material does not yellow or crack with age and provides a typical light transmittance of 93-95%.
- Zero uplight.
- Available in 5000K, 4000K, and 3000K color temperatures per ANSI C78.377. Also Available in Phosphor Converted Amber with Peak intensity at 610nm.
- Minimum CRI of 70.
- Integral louver (IL) and integral half louver (IH) options available for enhanced backlight control.

### Electrical

- High-performance programmable driver features over-voltage, under-voltage, short-circuit and over temperature protection. Custom lumen and wattage packages available.
- 0-10V dimming (10% - 100%) standard.
- Standard Universal Voltage (120-277 Vac) Input 50/60 Hz or optional High Voltage (347-480 Vac).
- L80 Calculated Life: >100k Hours (See Lumen Maintenance chart)
- Total harmonic distortion: <20%
- Operating temperature: -40°C to +50°C (-40°F to +122°F). 42L and 48L lumen packages rated to +40°C. 55L lumen package rate to +35°C.
- Power factor: >.90
- Input power stays constant over life.
- Field replaceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).
- High-efficacy LEDs mounted to metal-core circuit board to maximize heat dissipation
- Components are fully encased in potting material for moisture resistance. Driver complies with FCC standards. Driver and key electronic components can easily be accessed.

### Controls

- Optional integral passive infrared Bluetooth™ motion. Fixtures operate independently and can be commissioned via iOS or Android configuration app
- LSI's AirLink™ wireless control system options reduce energy and maintenance

costs while optimizing light quality 24/7. (see controls section for more details).

### Installation

- Designed to mount to square or round poles.
- A single fastener secures the hinged door, underneath the housing and provides quick & easy access to the electrical compartment.
- Included terminal block accepts up to 12 ga. wire.
- Utilizes LSI's traditional 3" drill pattern B3 for easy fastening of LSI products.

### Warranty

- LSI LED Fixtures carry a 5-year warranty.

### Listings

- Listed to UL 1598 and UL 8750.
- Meets Buy American Act requirements.
- IDA compliant; with 3000K color temperature selection.
- Title 24 Compliant; see local ordinance for qualification information.
- RoHS compliant
- Suitable for wet Locations.
- IP66 rated Luminaire per IEC 60598.
- 3G rated for ANSI C136.31 high vibration applications are qualified.
- DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at [www.designlights.org/QPL](http://www.designlights.org/QPL) to confirm which versions are qualified.
- Patented Silicone Optics (US Patent NO. 10,816,165 B2)
- IK08 rated luminaire per IEC 66262 mechanical impact code



# Mirada Medium Outdoor LED Area Light

 **Have questions?** Call us at (800) 436-7800

Type : \_\_\_\_\_

## ORDERING GUIDE

[Back to Quick Links](#)

**TYPICAL ORDER EXAMPLE: MRM LED 36L SIL FTA UNV DIM 50 70CRI ALSCS04 BRZ IL**

| Prefix                         | Light Source | Lumen Package   | Lens           | Distribution   | Orientation <sup>2</sup>  | Voltage  | Driver                      |
|--------------------------------|--------------|---|----------------|--|---|--|-----------------------------|
| MRM - Mirada Medium Area Light | LED          | 7L - 7,000 lms, 48W<br>9L - 9,000 lms, 62W<br>12L - 12,000 lms, 85W<br>18L - 18,000 lms, 135W<br>24L - 24,000 lms, 176W<br>30L - 30,000 lms, 232W<br>36L - 36,000 lms, 288W<br>42L - 42,000 lms, 314W<br>48L - 48,000 lms, 401W<br>55L - 55,000 lms, 438W<br>Custom Lumen Packages <sup>1</sup> | SIL - Silicone | 2 - Type 2<br>3 - Type 3<br>4 - Type 4<br>5W - Type 5 Wide<br>FT - Forward Throw<br>FTA - Forward Throw Automotive<br>AM - Automotive Merchandise<br>LC - Left Corner<br>RC - Right Corner | (blank) - standard<br>L - Optics rotated left 90°<br>R - Optics rotated right 90° | UNV - Universal Voltage (120-277V)<br>HV - High Voltage (347-480V) | DIM - 0-10V Dimming (0-10%) |

| Color Temp   | Color Rendering | Finish   | Options  |
|--|-----------------|--|--|
| 50 - 5,000 CCT<br>40 - 4,000 CCT<br>30 - 3,000 CCT<br>AMB - Phosphor Converted Amber <sup>12</sup> | 70CRI - 70 CRI  | BLK - Black<br>BRZ - Dark Bronze<br>GMG - Gun Metal Gray<br>GPT - Graphite | MSV - Metallic Silver<br>PLP - Platinum Plus<br>SVG - Satin Verde Green<br>WHT - White<br>(Blank) - None<br>IH - Integral Half Louver (Moderate Spill Light Cutoff) <sup>2</sup><br>IL - Integral Louver (Sharp Spill Light Cutoff) <sup>2</sup> |

### Controls (Choose One)

(Blank) - None

#### Wireless Controls System

ALSC - AirLink Synapse Control System<sup>13</sup>

ALSCS02 - AirLink Synapse Control System with 12-20' Motion Sensor<sup>13</sup>

ALSCS04 - AirLink Synapse Control System with 20-40' Motion Sensor<sup>13</sup>

ALBCS1 - AirLink Blue Wireless Motion & Photo Sensor Controller (8-24' mounting height)<sup>5</sup>

ALBCS2 - AirLink Blue Wireless Motion & Photo Sensor Controller (25-40' mounting height)<sup>5</sup>

#### Stand-Alone Controls

EXT - 0-10v Dimming leads extended to housing exterior

CR7P - 7 Pin Control Receptacle ANSI C136.41<sup>6</sup>

IMSBT1L - Integral Bluetooth™ Motion and Photocell Sensor (8-24' MH)<sup>5</sup>

IMSBT12 - Integral Bluetooth™ Motion and Photocell Sensor (25-40' MH)<sup>5</sup>

#### Button Type Photocells

PC1120 - 120V

PC1208-277 - 208 -277V

PC1347 - 347V



**Need more information?**

Click here for our glossary

**Have additional questions?**

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## ACCESSORY ORDERING INFORMATION<sup>7</sup>

| CONTROLS ACCESSORIES   |                |
|--|----------------|
| Description  | Order Number   |
| PC120 Photocell for use with CR7P option (120V) <sup>8</sup>                 | <b>122514</b>  |
| PC208-277 Photocell for use with CR7P option (208V, 240V, 277V) <sup>8</sup> | <b>122515</b>  |
| Twist Lock Photocell (347V) for use with CR7P <sup>8</sup>                   | <b>122516</b>  |
| Twist Lock Photocell (480V) for use with CR7P <sup>8</sup>                   | <b>1225180</b> |
| AirLink 5 Pin Twist Lock Controller (120-277V Only) <sup>8</sup>             | <b>661409</b>  |
| AirLink 7 Pin Twist Lock Controller (120-277V Only) <sup>8</sup>             | <b>661410</b>  |
| AirLink 7 Pin Twist Lock Controller (347-480V)                               | <b>679948</b>  |
| Shorting Cap for use with CR7P   | <b>149328</b>  |

| FUSING OPTIONS <sup>11</sup> |  |
|------------------------------|--|
| Single Fusing (120V)         |  |
| Single Fusing (277V)         |  |
| Double Fusing (208, 240V)    |  |
| Double Fusing (480V)         |  |
| Double Fusing (347V)         |  |

[See Fusing Accessory Guide](#)

| SHIELDING OPTIONS |  |
|-------------------|--|
| Mirada Small      |  |
| Mirada Medium     |  |
| Mirada Large      |  |
| Zone Medium       |  |
| Zone Large        |  |
| Slice Medium      |  |

[See Shielding Guide](#)

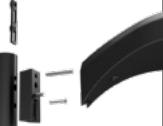
1. Custom lumen and wattage packages available, consult factory. Values are within industry standard tolerances but not DLC listed.
2. Not available with 5W distribution
3. Consult Factory for availability.
4. Not available in HV.
5. Motion sensors are field configurable via an app that can be downloaded from your smartphone's native app store. See controls section for more details.
6. Control device or shorting cap must be ordered separately. See Accessory Ordering Information.
7. Accessories are shipped separately and field installed.
8. Factory installed CR7P option required. See Options.
9. "CLR" denotes finish. See Finish options.
10. Only available with ALSC/ALSCH control options.
11. Fusing must be located in hand hole of pole. See [Fusing Accessory Guide](#) for compatibility.
12. Only available in 9L, 12L, 18L and 24L Lumen Packages. Consult factory for lead time and availability.
13. Not available with 55L Lumen Package.

# Mirada Medium Outdoor LED Area Light

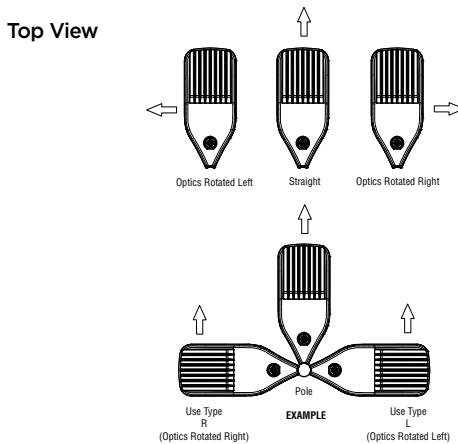
Type: \_\_\_\_\_

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## ACCESSORIES

| MOUNTING ACCESSORIES   |   |   |
|--|---|---|
| Side Arm   | <b>Universal Mounting Bracket</b><br>Mounts to ≥ 3" square or round (tapered/straight) poles with (2) mounting hole spaces between 3.5" to 5"<br><br>Part Number: BKA UMB CLR                       |      |
|  | <b>Quick Mount Plate</b><br>True one person installation to existing/new construction poles with hole spaces between 2.4 to 4.6"<br><br>Part Number: BKS PQM B3B5 XX CLR                            |      |
|  | <b>15° Tilt Quick Mount Plate</b><br>True one person installation to existing/new construction poles with hole spaces between 2.4 to 4.6"<br><br>Part Number: BKS PQ15 B3B5 XX CLR                  |      |
| Tenon / Slipfitter   | <b>Adjustable Slipfitter</b><br>Mounts onto a 2" (51mm) IP, 2.375" (60mm) O.D. tenon and provides 180° of tilt (max 45° above horizontal)<br><br>Part Number: BKA ASF CLR                           |      |
|  | <b>Square Tenon Top</b><br>Mounts onto a 2" (51mm) IP, 2.375" (60mm) O.D. tenon and allows for mounting up to 4 luminaires<br><br>Part Number: BKA XNM *  |      |
|  | <b>Square Internal Slipfitter</b><br>Mounts inside 4" or 5" square pole and allows for mounting up to 4 luminaires<br><br>Part Number: BKA X_ISF * CLR  |    |
| Wall Mount/ Wood Pole  | <b>Wall Mount Bracket</b><br>Mounts onto vertical wall surface (hardware/anchors not included)<br><br>Part Number: BKS XBO WM CLR   |    |
|  | <b>Wood Pole Bracket</b><br>Mounts onto wooden poles (6" minimum OD, hardware/anchors not included)<br><br>Part Number: BKS XBO WP CLR  |    |
| SHIELDING, POLES & MISC. ACCESSORIES   |   |   |
| Poles  | <b>Integral Louver</b><br>Field Install Integral Louver provides maximum backlight control by shielding each individual row of LEDs<br><br>Part Number: 690981                                      |    |
|  | <b>Integral Half Louver</b><br>Field Install Integral Half Louver provides great backlight control without impacting front side distribution.<br><br>Part Number: 743415                            |    |
|  | <b>External Shield</b><br>External shield blocks view of light source from any side of luminaire, additional shielding configurations available<br><br>Part Number: 783607BLK (3") / 776538BLK (6") |    |
| Misc.  | <b>Square Poles</b><br>14 - 39' steel and aluminum poles in 4", 5" and 6" sizes for retrofit and new construction<br><br>Part Number: 4SQ/5SQ/6SQ   |    |
|  | <b>Round Poles</b><br>10 - 30' steel and aluminum poles in 4" and 5" sizes for retrofit and new construction<br><br>Part Number: 4RP/5RP  |    |
|  | <b>Tapered Poles</b><br>20' - 39' steel and aluminum poles for retrofit and new construction<br><br>Part Number: RTP  |  |
| Bird Spikes  |   |   |
| 10' Linear Bird Spike Kit, 4" recommended per luminaire, includes silicone adhesive and application tool   |   |   |
| Spike Part Number: 751631<br>Adhesive Part Number: 751632<br>Caulk Gun Part Number: 751636   |   |   |
| Replace CLR with paint finish description<br>Replace X with: 3<br>Replace XX with SQ for square pole or RD for round pole (≥3" OD)<br>Replace * with S (Single), D180 (Double @180°), D90 (Double @90°), T90 (Triple), Q90 (Quad)<br>Replace _ with 4 (4" square pole) or 5 (5" square pole) |   |   |

## OPTICS ROTATION



## ACCESSORIES/OPTIONS

### Integral Louver (IL) and House-Side Shield (IH)

Integral Louver (IL) and half louver (IH) accessory shields available for improved backlight control without sacrificing street side performance. LSI's Integral Louver (IL) and Integral House-Side Shield (IH) options deliver backlight control that significantly reduces spill light behind the poles for applications with pole locations close to adjacent properties. The design maximizes forward reflected light while reducing glare, maintaining the optical distribution selected, and most importantly eliminating light trespass. Both options rotate

Luminaire Shown with Integral Louver (IL)



Luminaire Shown with IMSBTL Option



### 7 Pin Photoelectric Control

7-pin ANSI C136.41-2013 control receptacle option available for twist lock photocontrols or wireless control modules. Control accessories sold separately. Dimming leads from the receptacle will be connected to the driver dimming leads (Consult factory for alternate wiring).

Luminaire Shown with CR7P



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SPEC.1020.B.0422

# Mirada Medium Outdoor LED Area Light

Type: \_\_\_\_\_

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## PERFORMANCE

[Back to Quick Links](#)

### DELIVERED LUMENS\*

| Lumen Package | Distribution | CRI | 3000K CCT        |          |            | 4000K CCT        |          |            | 5000K CCT        |          |            | Wattage |
|---------------|--------------|-----|------------------|----------|------------|------------------|----------|------------|------------------|----------|------------|---------|
|               |              |     | Delivered Lumens | Efficacy | BUG Rating | Delivered Lumens | Efficacy | BUG Rating | Delivered Lumens | Efficacy | BUG Rating |         |
| 9L            | 2            | 70  | 9853             | 159      | B2-U0-G2   | 9853             | 159      | B2-U0-G2   | 9853             | 159      | B2-U0-G2   | 62      |
|               | 3            |     | 9926             | 160      | B2-U0-G2   | 9926             | 160      | B2-U0-G2   | 9926             | 160      | B2-U0-G2   |         |
|               | 4            |     | 9178             | 148      | B2-U0-G3   | 9713             | 157      | B2-U0-G3   | 9498             | 153      | B2-U0-G3   |         |
|               | 5W           |     | 9504             | 153      | B3-U0-G2   | 9504             | 153      | B3-U0-G2   | 9504             | 153      | B3-U0-G2   |         |
|               | FT           |     | 9856             | 159      | B2-U0-G3   | 9856             | 159      | B2-U0-G3   | 9856             | 159      | B2-U0-G3   |         |
|               | FTA          |     | 9900             | 160      | B2-U0-G2   | 9900             | 160      | B2-U0-G2   | 9900             | 160      | B2-U0-G2   |         |
|               | AM           |     | 10019            | 162      | B2-U0-G1   | 10019            | 162      | B2-U0-G1   | 10019            | 162      | B2-U0-G1   |         |
|               | LC/RC        |     | 9008             | 145      | B2-U0-G3   | 9533             | 154      | B2-U0-G3   | 9321             | 150      | B2-U0-G3   |         |
| 12L           | 2            | 70  | 13135            | 155      | B3-U0-G2   | 13135            | 155      | B3-U0-G2   | 13135            | 155      | B3-U0-G2   | 85      |
|               | 3            |     | 13232            | 156      | B2-U0-G2   | 13232            | 156      | B2-U0-G2   | 13232            | 156      | B2-U0-G2   |         |
|               | 4            |     | 12223            | 144      | B2-U0-G3   | 12935            | 152      | B2-U0-G4   | 12648            | 149      | B2-U0-G4   |         |
|               | 5W           |     | 12669            | 149      | B4-U0-G2   | 12669            | 149      | B4-U0-G2   | 12669            | 149      | B4-U0-G2   |         |
|               | FT           |     | 13138            | 155      | B2-U0-G3   | 13138            | 155      | B2-U0-G3   | 13138            | 155      | B2-U0-G3   |         |
|               | FTA          |     | 13196            | 155      | B2-U0-G2   | 13196            | 155      | B2-U0-G2   | 13196            | 155      | B2-U0-G2   |         |
|               | AM           |     | 13355            | 157      | B2-U0-G2   | 13355            | 157      | B2-U0-G2   | 13355            | 157      | B2-U0-G2   |         |
|               | LC/RC        |     | 11996            | 141      | B2-U0-G3   | 12695            | 149      | B2-U0-G3   | 12414            | 146      | B2-U0-G3   |         |
| 18L           | 2            | 70  | 19318            | 143      | B3-U0-G3   | 19318            | 143      | B3-U0-G3   | 19318            | 143      | B3-U0-G3   | 135     |
|               | 3            |     | 19461            | 144      | B3-U0-G3   | 19461            | 144      | B3-U0-G3   | 19461            | 144      | B3-U0-G3   |         |
|               | 4            |     | 18013            | 133      | B2-U0-G4   | 19063            | 141      | B3-U0-G5   | 18640            | 138      | B3-U0-G5   |         |
|               | 5W           |     | 18633            | 138      | B4-U0-G2   | 18633            | 138      | B4-U0-G2   | 18633            | 138      | B4-U0-G2   |         |
|               | FT           |     | 19324            | 143      | B3-U0-G3   | 19324            | 143      | B3-U0-G3   | 19324            | 143      | B3-U0-G3   |         |
|               | FTA          |     | 19408            | 144      | B3-U0-G3   | 19408            | 144      | B3-U0-G3   | 19408            | 144      | B3-U0-G3   |         |
|               | AM           |     | 19641            | 145      | B3-U0-G2   | 19641            | 145      | B3-U0-G2   | 19641            | 145      | B3-U0-G2   |         |
|               | LC/RC        |     | 17679            | 131      | B2-U0-G3   | 18710            | 139      | B2-U0-G3   | 18295            | 136      | B2-U0-G3   |         |
| 24L           | 2            | 70  | 24142            | 147      | B4-U0-G3   | 25957            | 147      | B4-U0-G3   | 25957            | 147      | B4-U0-G3   | 176     |
|               | 3            |     | 25001            | 149      | B3-U0-G3   | 26149            | 149      | B3-U0-G3   | 26149            | 149      | B3-U0-G3   |         |
|               | 4            |     | 24396            | 152      | B3-U0-G5   | 25600            | 160      | B3-U0-G5   | 25457            | 159      | B3-U0-G5   |         |
|               | 5W           |     | 24327            | 142      | B5-U0-G3   | 25037            | 142      | B5-U0-G3   | 25037            | 142      | B5-U0-G3   |         |
|               | FT           |     | 24994            | 148      | B3-U0-G3   | 25964            | 148      | B3-U0-G3   | 25964            | 148      | B3-U0-G3   |         |
|               | FTA          |     | 24171            | 148      | B3-U0-G3   | 26077            | 148      | B4-U0-G3   | 26077            | 148      | B4-U0-G3   |         |
|               | AM           |     | 24939            | 150      | B3-U0-G2   | 26393            | 150      | B3-U0-G2   | 26393            | 150      | B3-U0-G2   |         |
|               | LC/RC        |     | 25884            | 162      | B3-U0-G4   | 25884            | 162      | B3-U0-G4   | 25310            | 158      | B3-U0-G4   |         |
| 30L           | 2            | 70  | 30171            | 140      | B4-U0-G3   | 32417            | 140      | B4-U0-G3   | 32417            | 140      | B4-U0-G3   | 232     |
|               | 3            |     | 31243            | 141      | B3-U0-G4   | 32656            | 141      | B3-U0-G4   | 32656            | 141      | B3-U0-G4   |         |
|               | 4            |     | 30651            | 144      | B3-U0-G5   | 32141            | 151      | B3-U0-G5   | 31961            | 150      | B3-U0-G5   |         |
|               | 5W           |     | 30402            | 135      | B5-U0-G3   | 31267            | 135      | B5-U0-G3   | 31267            | 135      | B5-U0-G3   |         |
|               | FT           |     | 31233            | 140      | B4-U0-G4   | 32424            | 140      | B4-U0-G4   | 32424            | 140      | B4-U0-G4   |         |
|               | FTA          |     | 30207            | 140      | B4-U0-G4   | 32566            | 140      | B4-U0-G4   | 32566            | 140      | B4-U0-G4   |         |
|               | AM           |     | 3116             | 142      | B4-U0-G3   | 32960            | 142      | B4-U0-G3   | 32960            | 142      | B4-U0-G3   |         |
|               | LC/RC        |     | 32498            | 153      | B3-U0-G5   | 32498            | 153      | B3-U0-G5   | 31777            | 149      | B3-U0-G5   |         |

\*LEDs are frequently updated therefore values are nominal.



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# Mirada Medium Outdoor LED Area Light

Type : \_\_\_\_\_

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## PERFORMANCE (CONT.)

| DELIVERED LUMENS* |              |     |                  |          |            |                  |          |            |                  |          |            |         |
|-------------------|--------------|-----|------------------|----------|------------|------------------|----------|------------|------------------|----------|------------|---------|
| Lumen Package     | Distribution | CRI | 3000K CCT        |          |            | 4000K CCT        |          |            | 5000K CCT        |          |            | Wattage |
|                   |              |     | Delivered Lumens | Efficacy | BUG Rating | Delivered Lumens | Efficacy | BUG Rating | Delivered Lumens | Efficacy | BUG Rating |         |
| 36L               | 2            | 70  | 35357            | 133      | B4-U0-G3   | 38275            | 133      | B4-U0-G3   | 38275            | 133      | B4-U0-G3   | 288     |
|                   | 3            |     | 36614            | 134      | B4-U0-G4   | 38557            | 134      | B4-U0-G4   | 38557            | 134      | B4-U0-G4   |         |
|                   | 4            |     | 35402            | 139      | B3-U0-G5   | 37148            | 146      | B4-U0-G5   | 36940            | 145      | B4-U0-G5   |         |
|                   | 5W           |     | 35627            | 128      | B5-U0-G4   | 36917            | 128      | B5-U0-G4   | 36917            | 128      | B5-U0-G4   |         |
|                   | FT           |     | 36602            | 133      | B4-U0-G4   | 38283            | 133      | B4-U0-G4   | 38283            | 133      | B4-U0-G4   |         |
|                   | FTA          |     | 35399            | 134      | B4-U0-G4   | 38450            | 134      | B4-U0-G4   | 38450            | 134      | B4-U0-G4   |         |
|                   | AM           |     | 36524            | 135      | B4-U0-G3   | 38916            | 135      | B4-U0-G3   | 38916            | 135      | B4-U0-G3   |         |
|                   | LC/RC        |     | 37561            | 147      | B3-U0-G5   | 37561            | 147      | B3-U0-G5   | 36727            | 144      | B3-U0-G5   |         |
|                   | 2            |     | 41035            | 131      | B5-U0-G4   | 42602            | 136      | B5-U0-G4   | 42542            | 135      | B5-U0-G4   | 314     |
| 42L               | 3            | 70  | 42493            | 135      | B4-U0-G5   | 44115            | 140      | B4-U0-G5   | 44053            | 140      | B4-U0-G5   |         |
|                   | 4            |     | 41453            | 132      | B4-U0-G5   | 43497            | 138      | B4-U0-G5   | 43254            | 138      | B4-U0-G5   |         |
|                   | 5W           |     | 41349            | 132      | B5-U0-G4   | 42927            | 134      | B5-U0-G4   | 42866            | 137      | B5-U0-G4   |         |
|                   | FT           |     | 42481            | 135      | B4-U0-G4   | 44103            | 140      | B4-U0-G4   | 44040            | 140      | B4-U0-G4   |         |
|                   | FTA          |     | 41083            | 131      | B4-U0-G4   | 42652            | 136      | B5-U0-G4   | 42591            | 136      | B5-U0-G4   |         |
|                   | AM           |     | 42389            | 135      | B4-U0-G3   | 44007            | 140      | B4-U0-G3   | 43944            | 140      | B4-U0-G3   |         |
|                   | LC/RC        |     | 43980            | 140      | B3-U0-G5   | 43980            | 140      | B3-U0-G5   | 43004            | 137      | B3-U0-G5   |         |
|                   | 2            | 70  | 45133            | 123      | B5-U0-G4   | 46856            | 128      | B5-U0-G4   | 46789            | 128      | B5-U0-G4   | 401     |
|                   | 3            |     | 46737            | 128      | B4-U0-G5   | 48521            | 133      | B4-U0-G5   | 48452            | 132      | B4-U0-G5   |         |
|                   | 4            |     | 46006            | 126      | B4-U0-G5   | 48275            | 132      | B4-U0-G5   | 48005            | 131      | B4-U0-G5   |         |
|                   | 5W           |     | 45478            | 124      | B5-U0-G4   | 47214            | 129      | B5-U0-G4   | 47147            | 129      | B5-U0-G4   |         |
|                   | FT           |     | 46723            | 128      | B4-U0-G5   | 48507            | 133      | B4-U0-G5   | 48438            | 132      | B4-U0-G5   |         |
|                   | FTA          |     | 45187            | 123      | B5-U0-G4   | 46912            | 128      | B5-U0-G4   | 46845            | 128      | B5-U0-G4   |         |
|                   | AM           |     | 4662             | 127      | B4-U0-G3   | 48402            | 132      | B4-U0-G3   | 48333            | 132      | B4-U0-G3   |         |
|                   | LC/RC        |     | 48811            | 133      | B4-U0-G5   | 48811            | 133      | B4-U0-G5   | 47728            | 130      | B4-U0-G5   |         |
| 55L               | 2            | 70  | 50179            | 115      | B5-U0-G4   | 52095            | 119      | B5-U0-G4   | 52021            | 119      | B5-U0-G4   | 438     |
|                   | 3            |     | 51963            | 119      | B4-U0-G5   | 53947            | 123      | B4-U0-G5   | 53870            | 123      | B4-U0-G5   |         |
|                   | 4            |     | 51635            | 119      | B4-U0-G5   | 54181            | 125      | B4-U0-G5   | 53878            | 124      | B4-U0-G5   |         |
|                   | 5W           |     | 50563            | 115      | B5-U0-G4   | 52493            | 120      | B5-U0-G4   | 52418            | 120      | B5-U0-G4   |         |
|                   | FT           |     | 50539            | 115      | B4-U0-G5   | 52468            | 120      | B4-U0-G5   | 52394            | 120      | B4-U0-G5   |         |
|                   | FTA          |     | 50239            | 115      | B5-U0-G4   | 52157            | 119      | B5-U0-G4   | 52082            | 119      | B5-U0-G4   |         |
|                   | AM           |     | 52223            | 119      | B4-U0-G3   | 54216            | 124      | B4-U0-G3   | 54139            | 124      | B4-U0-G3   |         |
|                   | LC/RC        |     | 54113            | 124      | B4-U0-G5   | 54113            | 124      | B4-U0-G5   | 52912            | 121      | B4-U0-G5   |         |

\*LEDs are frequently updated therefore values are nominal.



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SPEC.1020.B.0422

# Mirada Medium Outdoor LED Area Light

Have questions? Call us at (800) 436-7800

Type: \_\_\_\_\_

## PERFORMANCE (CONT.)

| ELECTRICAL DATA (AMPS)* |      |      |      |      |      |      |
|-------------------------|------|------|------|------|------|------|
| Lumens                  | 120V | 208V | 240V | 277V | 347V | 480V |
| 9L                      | 0.52 | 0.30 | 0.26 | 0.22 | 0.18 | 0.13 |
| 12L                     | 0.71 | 0.41 | 0.35 | 0.31 | 0.24 | 0.18 |
| 18L                     | 1.13 | 0.65 | 0.56 | 0.49 | 0.39 | 0.28 |
| 24L                     | 1.33 | 0.77 | 0.67 | 0.58 | 0.46 | 0.33 |
| 30L                     | 1.78 | 1.02 | 0.89 | 0.77 | 0.61 | 0.44 |
| 36L                     | 2.12 | 1.22 | 1.06 | 0.92 | 0.73 | 0.53 |
| 42L                     | 2.62 | 1.51 | 1.31 | 1.13 | 0.90 | 0.65 |
| 48L                     | 3.05 | 1.76 | 1.53 | 1.32 | 1.05 | 0.76 |
| 55L                     | 3.65 | 2.11 | 1.83 | 1.58 | 1.26 | 0.91 |

| RECOMMENDED LUMEN MAINTENANCE <sup>1</sup> (0-25°C) |                      |                  |                   |                   |                    |
|---|----------------------|------------------|-------------------|-------------------|--------------------|
| Ambient   | Initial <sup>2</sup> | 25h <sup>2</sup> | 50hr <sup>2</sup> | 75hr <sup>2</sup> | 100hr <sup>2</sup> |
| 9L - 18L  | 100%                 | 97%              | 93%               | 90%               | 86%                |
| 24L - 48L   | 100%                 | 95%              | 89%               | 84%               | 79%                |
| 55L   | 100%                 | 91%              | 82%               | 74%               | 67%                |

| RECOMMENDED LUMEN MAINTENANCE <sup>1</sup> (40°C) |                      |                  |                   |                   |                    |
|---|----------------------|------------------|-------------------|-------------------|--------------------|
| Ambient   | Initial <sup>2</sup> | 25h <sup>2</sup> | 50hr <sup>2</sup> | 75hr <sup>2</sup> | 100hr <sup>2</sup> |
| 9L - 18L  | 100%                 | 97%              | 92%               | 88%               | 84%                |
| 24L - 48L   | 100%                 | 94%              | 87%               | 80%               | 74%                |

| RECOMMENDED LUMEN MAINTENANCE <sup>1</sup> (50°C) |                      |                  |                   |                   |                    |
|---|----------------------|------------------|-------------------|-------------------|--------------------|
| Ambient   | Initial <sup>2</sup> | 25h <sup>2</sup> | 50hr <sup>2</sup> | 75hr <sup>2</sup> | 100hr <sup>2</sup> |
| 9L - 18L C  | 100%                 | 96%              | 91%               | 87%               | 85%                |

\*Electrical data at 25°C (77°F). Actual wattage may differ by +/-10%

1. Lumen maintenance values at 25C are calculated per TM-21 based on LM-80 data and in-situ testing.
2. In accordance with IESNA TM-21-11, Projected Values represent interpolated value based on time durations that are within six times the IESNA LM-80-08 total test duration for the device under testing.
3. In accordance with IESNA TM-21-11, Calculated Values represent time durations that exceed six times the IESNA LM-80-08 total test duration for the device under testing.

| DELIVERED LUMENS* |              |                                       |          |            |         |
|-------------------|--------------|---------------------------------------|----------|------------|---------|
| Lumen Package     | Distribution | Phosphor Converted Amber (Peak 610mm) |          |            | Wattage |
|                   |              | Delivered Lumens                      | Efficacy | BUG Rating |         |
| 9L                | 2            | 5848                                  | 80       | B2-U0-G2   | 74      |
|                   | 3            | 6018                                  | 82       | B1-U0-G2   |         |
|                   | 5W           | 5471                                  | 74       | B3-U0-G1   |         |
|                   | FT           | 5801                                  | 79       | B1-U0-G2   |         |
|                   | FTA          | 5924                                  | 81       | B1-U0-G1   |         |
|                   | AM           | 5995                                  | 81       | B1-U0-G1   |         |
| 12L               | 2            | 7530                                  | 74       | B2-U0-G2   | 102     |
|                   | 3            | 7749                                  | 76       | B1-U0-G2   |         |
|                   | 5W           | 7045                                  | 69       | B3-U0-G2   |         |
|                   | FT           | 7470                                  | 73       | B2-U0-G2   |         |
|                   | FTA          | 7628                                  | 75       | B2-U0-G2   |         |
|                   | AM           | 7720                                  | 76       | B1-U0-G1   |         |
| 18L               | 2            | 9311                                  | 69       | B2-U0-G2   | 135     |
|                   | 3            | 9582                                  | 71       | B2-U0-G2   |         |
|                   | 5W           | 8712                                  | 65       | B3-U0-G2   |         |
|                   | FT           | 9237                                  | 68       | B2-U0-G2   |         |
|                   | FTA          | 9433                                  | 70       | B2-U0-G2   |         |
|                   | AM           | 9546                                  | 71       | B2-U0-G1   |         |
| 24L               | 2            | 10955                                 | 63       | B2-U0-G2   | 175     |
|                   | 3            | 11273                                 | 64       | B2-U0-G2   |         |
|                   | 5W           | 10249                                 | 59       | B3-U0-G2   |         |
|                   | FT           | 10867                                 | 62       | B2-U0-G2   |         |
|                   | FTA          | 11097                                 | 63       | B2-U0-G2   |         |
|                   | AM           | 11230                                 | 64       | B2-U0-G1   |         |

| ELECTRICAL DATA - PHOSPHOR CONVERTED AMBER (AMPS)* |      |      |      |      |      |
|--|------|------|------|------|------|
| Lumens   | 120V | 208V | 240V | 277V | 347V |
| 9L   | 0.62 | 0.36 | 0.31 | 0.27 | 0.21 |
| 12L  | 0.85 | 0.50 | 0.43 | 0.38 | 0.30 |
| 18L  | 1.13 | 0.65 | 0.56 | 0.49 | 0.39 |
| 24L  | 1.47 | 0.85 | 0.73 | 0.64 | 0.51 |

\*LEDs are frequently updated therefore values are nominal.



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SPEC.1020.B.0422

# Mirada Medium Outdoor LED Area Light

Have questions? Call us at (800) 436-7800

Type: \_\_\_\_\_

## PHOTOMETRICS

[Back to Quick Links](#)

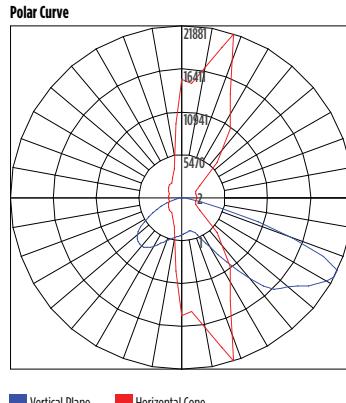
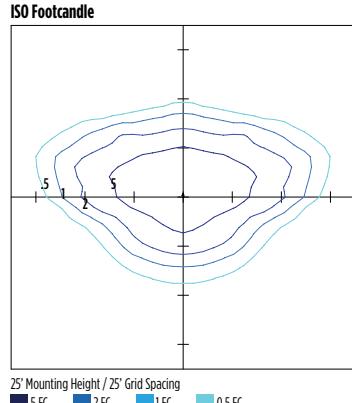
Luminaire photometry has been conducted by a NVLAP accredited testing laboratory in accordance with IESNA LM-79-08. As specified by IESNA LM-79-08 the entire luminaire is tested as the source resulting in a luminaire efficiency of 100%.

See the individual product page on <https://www.lsicorp.com/> for detailed photometric data.

### MRM-LED-30L-SIL-2-40-70CRI

| Luminaire Data      |                     |
|---------------------|---------------------|
| Type 2 Distribution |                     |
| Description         | 4000 Kelvin, 70 CRI |
| Delivered Lumens    | 32,416              |
| Watts               | 232                 |
| Efficacy            | 140                 |
| IES Type            | Type II - Short     |
| BUG Rating          | B4-U0-G3            |

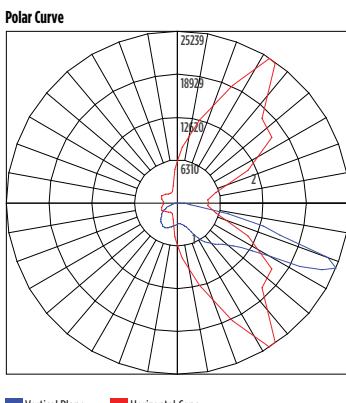
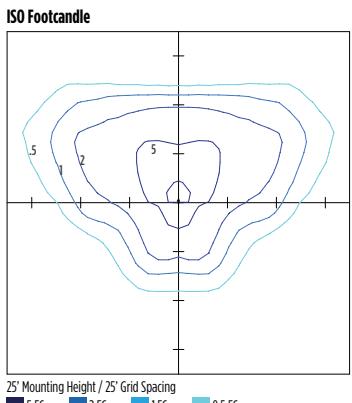
| Zonal Lumen Summary |        |             |
|---------------------|--------|-------------|
| Zone                | Lumens | % Luminaire |
| Low (0-30°)         | 4796   | 15%         |
| Medium (30-60°)     | 19811  | 61%         |
| High (60-80°)       | 7474   | 23%         |
| Very High (80-90°)  | 335    | 1%          |
| Uplight (90-180°)   | 0      | 0%          |
| Total Flux          | 32416  | 100%        |



### MRM-LED-30L-SIL-3-40-70CRI

| Luminaire Data      |                     |
|---------------------|---------------------|
| Type 3 Distribution |                     |
| Description         | 4000 Kelvin, 70 CRI |
| Delivered Lumens    | 32,656              |
| Watts               | 232                 |
| Efficacy            | 141                 |
| IES Type            | Type III - Short    |
| BUG Rating          | B3-U0-G4            |

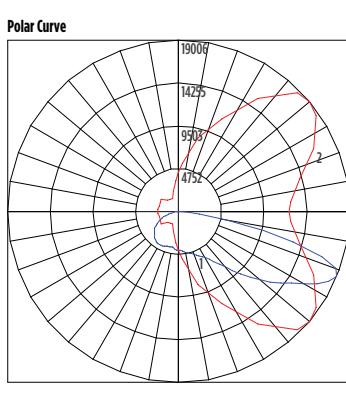
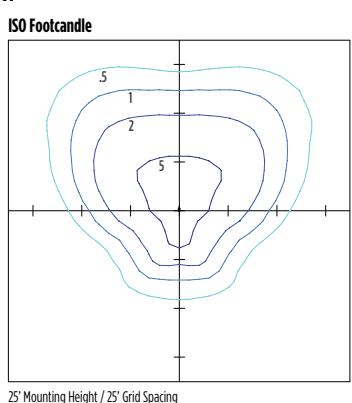
| Zonal Lumen Summary |        |             |
|---------------------|--------|-------------|
| Zone                | Lumens | % Luminaire |
| Low (0-30°)         | 3385   | 10%         |
| Medium (30-60°)     | 16250  | 50%         |
| High (60-80°)       | 12430  | 38%         |
| Very High (80-90°)  | 591    | 2%          |
| Uplight (90-180°)   | 0      | 0%          |
| Total Flux          | 32656  | 100%        |



### MRM-LED-30L-SIL-FT-40-70CRI

| Luminaire Data       |                     |
|----------------------|---------------------|
| Type FT Distribution |                     |
| Description          | 4000 Kelvin, 70 CRI |
| Delivered Lumens     | 32,424              |
| Watts                | 232                 |
| Efficacy             | 140                 |
| IES Type             | Type IV - Short     |
| BUG Rating           | B3-U0-G4            |

| Zonal Lumen Summary |        |             |
|---------------------|--------|-------------|
| Zone                | Lumens | % Luminaire |
| Low (0-30°)         | 3952   | 12%         |
| Medium (30-60°)     | 15505  | 48%         |
| High (60-80°)       | 12279  | 38%         |
| Very High (80-90°)  | 688    | 2%          |
| Uplight (90-180°)   | 0      | 0%          |
| Total Flux          | 32424  | 100%        |



# Mirada Medium Outdoor LED Area Light

Type: \_\_\_\_\_

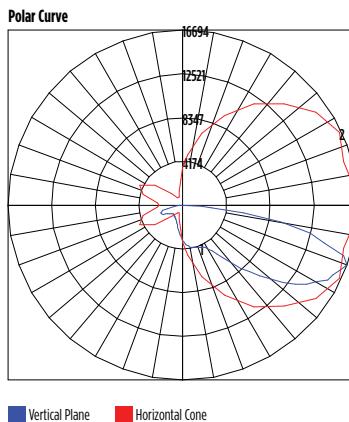
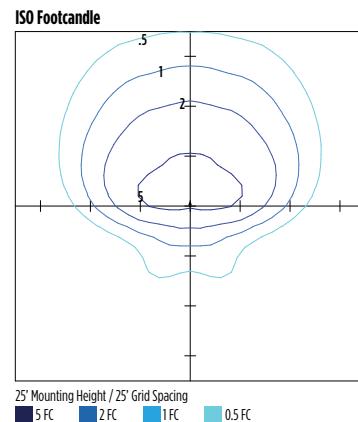
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## PHOTOMETRICS (CONT)

### MRM-LED-30L-SIL-4-40-70CRI

| Luminaire Data      |                      |
|---------------------|----------------------|
| Type 4 Distribution |                      |
| Description         | 4000 Kelvin, 70 CRI  |
| Delivered Lumens    | 32,141               |
| Watts               | 213                  |
| Efficacy            | 151                  |
| IES Type            | Type IV - Very Short |
| BUG Rating          | B3-U0-G5             |

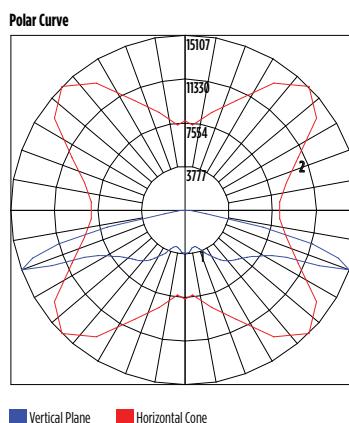
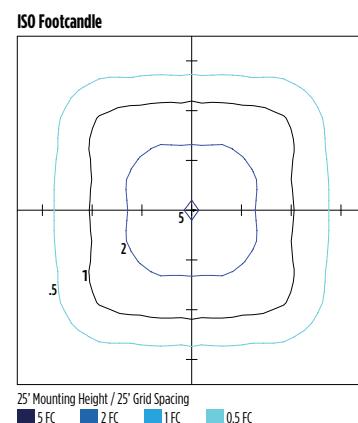
| Zonal Lumen Summary |        |             |
|---------------------|--------|-------------|
| Zone                | Lumens | % Luminaire |
| Low (0-30°)         | 3119   | 10%         |
| Medium (30-60°)     | 13569  | 42%         |
| High (60-80°)       | 13649  | 42%         |
| Very High (80-90°)  | 1804   | 6%          |
| Uplight (90-180°)   | 0      | 0%          |
| Total Flux          | 32141  | 100%        |



### MRM-LED-30L-SIL-5W-40-70CRI

| Luminaire Data       |                     |
|----------------------|---------------------|
| Type 5W Distribution |                     |
| Description          | 4000 Kelvin, 70 CRI |
| Delivered Lumens     | 31,267              |
| Watts                | 232                 |
| Efficacy             | 135                 |
| IES Type             | Type VS - Short     |
| BUG Rating           | B5-U0-G3            |

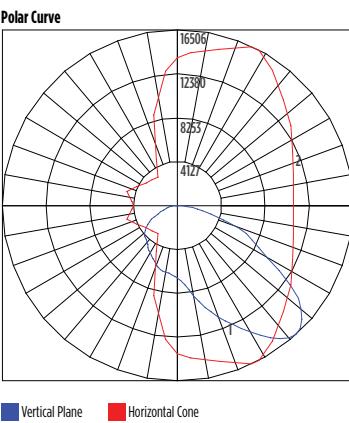
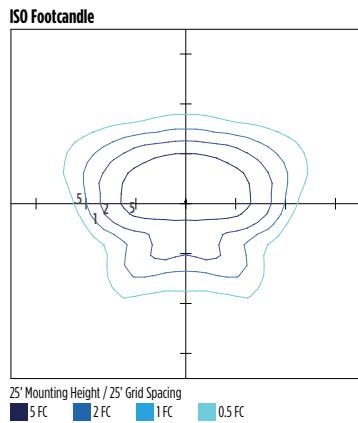
| Zonal Lumen Summary |        |             |
|---------------------|--------|-------------|
| Zone                | Lumens | % Luminaire |
| Low (0-30°)         | 3138   | 10%         |
| Medium (30-60°)     | 13193  | 42%         |
| High (60-80°)       | 14641  | 47%         |
| Very High (80-90°)  | 296    | 1%          |
| Uplight (90-180°)   | 0      | 0%          |
| Total Flux          | 31267  | 100%        |



### MRM-LED-30L-SIL-FTA-40-70CRI

| Luminaire Data        |                     |
|-----------------------|---------------------|
| Type FTA Distribution |                     |
| Description           | 4000 Kelvin, 70 CRI |
| Delivered Lumens      | 32,566              |
| Watts                 | 232                 |
| Efficacy              | 140                 |
| IES Type              | Type VS - Short     |
| BUG Rating            | B4-U0-G3            |

| Zonal Lumen Summary |        |             |
|---------------------|--------|-------------|
| Zone                | Lumens | % Luminaire |
| Low (0-30°)         | 6986   | 21%         |
| Medium (30-60°)     | 19172  | 59%         |
| High (60-80°)       | 5875   | 18%         |
| Very High (80-90°)  | 534    | 2%          |
| Uplight (90-180°)   | 0      | 0%          |
| Total Flux          | 32566  | 100%        |



# Mirada Medium Outdoor LED Area Light

Type: \_\_\_\_\_

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## PHOTOMETRICS (CONT)

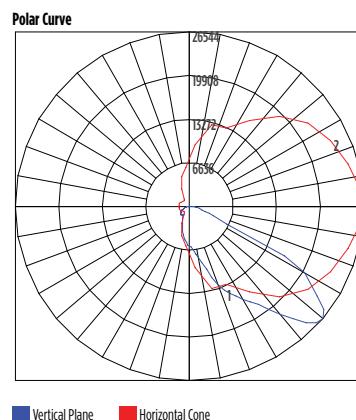
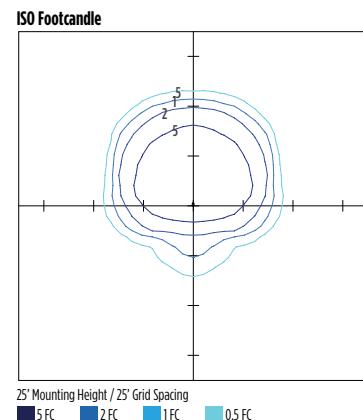
[Back to Quick Links](#)

### MRM-LED-30L-SIL-AM-40-70CRI

| Luminaire Data       |                       |
|----------------------|-----------------------|
| Type AM Distribution |                       |
| Description          | 4000 Kelvin, 70 CRI   |
| Delivered Lumens     | 32,960                |
| Watts                | 232                   |
| Efficacy             | 142                   |
| IES Type             | Type III - Very Short |
| BUG Rating           | B3-U0-G3              |

#### Zonal Lumen Summary

| Zone               | Lumens | % Luminaire |
|--------------------|--------|-------------|
| Low (0-30°)        | 6363   | 19%         |
| Medium (30-60°)    | 22026  | 67%         |
| High (60-80°)      | 4192   | 13%         |
| Very High (80-90°) | 379    | 1%          |
| Uplight (90-180°)  | 0      | 0%          |
| Total Flux         | 32960  | 100%        |

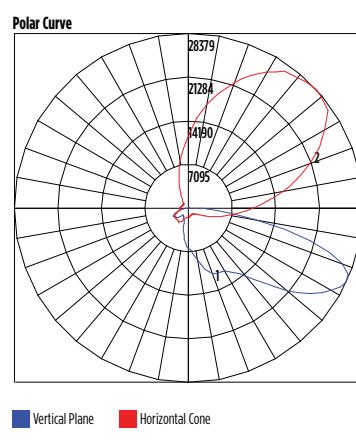
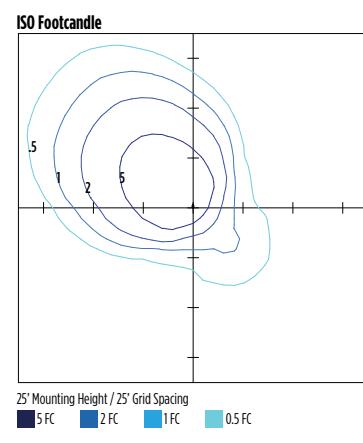


### MRM-LED-30L-SIL-LC-40-70CRI

| Luminaire Data           |                     |
|--------------------------|---------------------|
| Left Corner Distribution |                     |
| Description              | 4000 Kelvin, 70 CRI |
| Delivered Lumens         | 32,498              |
| Watts                    | 213                 |
| Efficacy                 | 153                 |
| IES Type                 | N/A                 |
| BUG Rating               | B3-U0-G5            |

#### Zonal Lumen Summary

| Zone               | Lumens | % Luminaire |
|--------------------|--------|-------------|
| Low (0-30°)        | 5083   | 16%         |
| Medium (30-60°)    | 14808  | 46%         |
| High (60-80°)      | 11603  | 36%         |
| Very High (80-90°) | 1005   | 3%          |
| Uplight (90-180°)  | 0      | 0%          |
| Total Flux         | 32498  | 100%        |

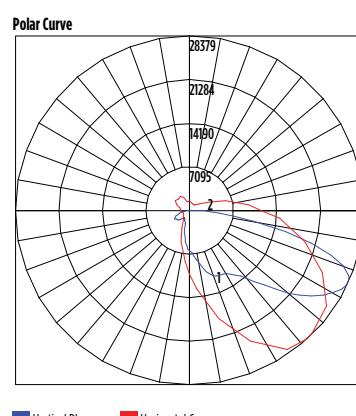
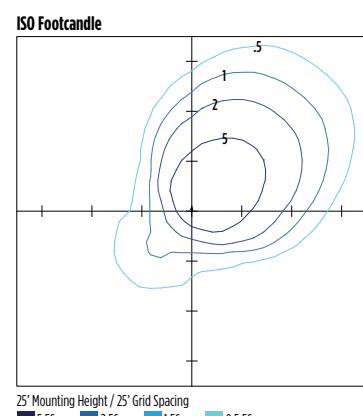


### MRM-LED-30L-SIL-RC-40-70CRI

| Luminaire Data            |                     |
|---------------------------|---------------------|
| Right Corner Distribution |                     |
| Description               | 4000 Kelvin, 70 CRI |
| Delivered Lumens          | 32,498              |
| Watts                     | 213                 |
| Efficacy                  | 153                 |
| IES Type                  | N/A                 |
| BUG Rating                | B3-U0-G5            |

#### Zonal Lumen Summary

| Zone               | Lumens | % Luminaire |
|--------------------|--------|-------------|
| Low (0-30°)        | 5083   | 16%         |
| Medium (30-60°)    | 14808  | 46%         |
| High (60-80°)      | 11603  | 36%         |
| Very High (80-90°) | 1005   | 3%          |
| Uplight (90-180°)  | 0      | 0%          |
| Total Flux         | 32498  | 100%        |

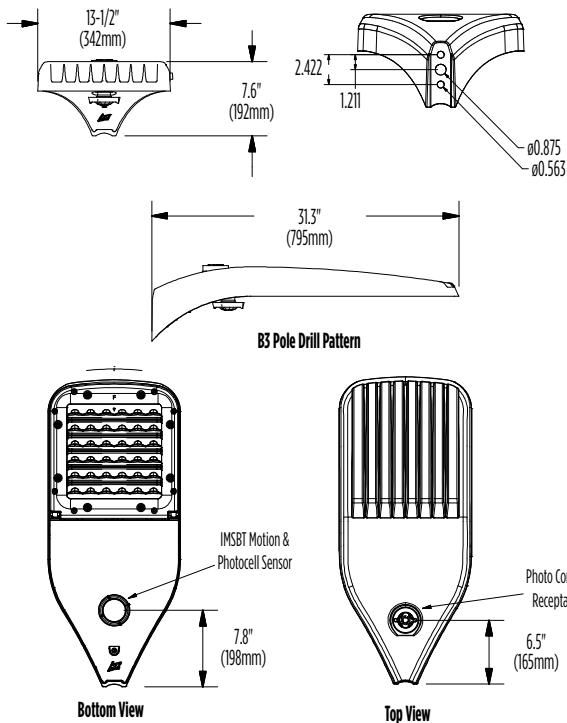


# Mirada Medium Outdoor LED Area Light

Type: \_\_\_\_\_

 Have questions? Call us at (800) 436-7800

## PRODUCT DIMENSIONS



### Luminaire EPA Chart

| Tilt Degree   | 0°  | 15° | 30° | 45° |
|---|-----|-----|-----|-----|
|  <b>Single</b> | 0.5 | 1.0 | 1.5 | 1.9 |
|  <b>D180°</b>  | 1.0 | 1.5 | 1.5 | 1.9 |
|  <b>D90°</b>   | 0.8 | 1.8 | 1.9 | 2.3 |
|  <b>T90°</b>   | 1.0 | 4.0 | 2.5 | 2.8 |
|  <b>TN120°</b> | 1.0 | 2.9 | 3.3 | 3.9 |
|  <b>Q90°</b>   | 1.0 | 4.0 | 2.5 | 2.8 |



# Mirada Medium Outdoor LED Area Light

Type: \_\_\_\_\_

 **Have questions?** Call us at (800) 436-7800

## CONTROLS

### Integral Bluetooth™ Motion and Photocell Sensor (IMSBTxL)

Slim low profile sensor provides multi-level control based on motion and/or daylight. Sensor controls 0-10 VDC LED drivers and is IP66 rated for cold and wet locations (-40°F to 167°F). Two unique PIR lenses are available and used based on fixture mounting height. All control parameters are adjustable via an iOS or Android App capable of storing and transmitting sensor profiles.

[Click here to learn more details about IMSBT](#)



LEVITON App



Apple



Android

### AirLink Blue (ALBCSx)

Wireless Bluetooth Mesh Outdoor Lighting Control System that provides energy savings, code compliance and enhanced safety/security for parking lots and parking garages. Three key components; Bluetooth wireless radio/sensor controller, Time Keeper and an iOS App. Capable of grouping multiple fixtures and sensors as well as scheduling time-based events by zone. Radio/Sensor Controller is factory integrated into Area/Site, Wall Mounted, Parking Garage and Canopy luminaires.

[Click here to learn more details about AirLink Blue](#)



AirLink Blue App



Apple

## Sensor Sequence of Operations

| Standard Programming | On Event | Off Event | On Light Level | Dim Light Level | Daylight Harvesting  | Delay To Off | Sensitivity |
|----------------------|----------|-----------|----------------|-----------------|----------------------|--------------|-------------|
| OMSBTxL/IMSBTxL      | Motion   | No Motion | 100%           | N/A             | On; Auto Calibration | 20 minutes   | High        |
| OMS                  | Motion   | No Motion | N/A            | N/A             | N/A                  | 30 seconds   | Auto        |

| Operation       | Description  |
|-----------------|--|
| On Event        | Trigger that activates lights to turn on; either automatic via motion detected or manually activated via push of button.   |
| Off Event       | Trigger that activates lights to turn off; either automatic via no motion detected or manually activated via push of button.   |
| On Light Level  | The light level that the fixtures will turn on to when ON EVENT occurs.  |
| Dim Light Level | The light level that the fixtures will dim down to when no motion is detected.   |
| Delay to Dim    | The amount of time after which no motion is detected that the fixtures will be triggered to dim down. This sequence is optional, and sensor can be programmed to only trigger the fixture to turn off by entering 100% in this field.  |
| Delay to Off    | The amount of time after which no motion is detected that the fixtures will be triggered to turn off. If delay to dim is part of the programmed functionality, this is the amount of time after which no motion is detected after the fixture have already dimmed down.  |
| Sensitivity     | The sensitivity can be set to high, medium, low, or auto where applicable. High will detect smaller, simple motions. Low will only detect larger more complex motions. Auto temperature calibration adjusts the PIR sensitivity as ambient temperature rises to increase detection of heat movement through the field of view. |



# Mirada Medium (MRM)

## Outdoor LED Area Light



IP66 IK08



| OVERVIEW             |                             |
|----------------------|-----------------------------|
| Lumen Package        | 7,000 - 55,000              |
| Wattage Range        | 48 - 438                    |
| Efficacy Range (LPW) | 115 - 162                   |
| Weight lbs(kg)       | 30 (13.6)                   |
| Control Options      | IMSBT, ALB, ALS, 7-Pin, PCI |

### QUICK LINKS

[Ordering Guide](#)[Performance](#)[Photometrics](#)[Dimensions](#)

## FEATURES & SPECIFICATIONS

### Construction

- Rugged die-cast aluminum housing contains factory prewired driver and optical unit. Cast aluminum wiring access door located underneath.
- Designed to mount to square or round poles.
- Fixtures are finished with LSI's DuraGrip® polyester powder coat finishing process. The DuraGrip finish withstands extreme weather changes without cracking or peeling. Other standard LSI finishes available. Consult factory.
- Shipping weight: 37 lbs in carton.

### Optical System

- State-of-the-Art one piece silicone optic sheet delivers industry leading optical control with an integrated gasket to provide IP66 rated sealed optical chamber in 1 component.
- Proprietary silicone refractor optics provide exceptional coverage and uniformity in IES Types 2, 3, 4, 5W, FT, FTA, AM, and LC/RC.
- Silicone optical material does not yellow or crack with age and provides a typical light transmittance of 93-95%.
- Zero uplight.
- Available in 5000K, 4000K, and 3000K color temperatures per ANSI C78.377. Also Available in Phosphor Converted Amber with Peak intensity at 610nm.
- Minimum CRI of 70.
- Integral louver (IL) and integral half louver (IH) options available for enhanced backlight control.

### Electrical

- High-performance programmable driver features over-voltage, under-voltage, short-circuit and over temperature protection. Custom lumen and wattage packages available.
- 0-10V dimming (10% - 100%) standard.
- Standard Universal Voltage (120-277 Vac) Input 50/60 Hz or optional High Voltage (347-480 Vac).
- L80 Calculated Life: >100k Hours (See Lumen Maintenance chart)
- Total harmonic distortion: <20%
- Operating temperature: -40°C to +50°C (-40°F to +122°F). 42L and 48L lumen packages rated to +40°C. 55L lumen package rate to +35°C.
- Power factor: >.90
- Input power stays constant over life.
- Field replaceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).
- High-efficacy LEDs mounted to metal-core circuit board to maximize heat dissipation
- Components are fully encased in potting material for moisture resistance. Driver complies with FCC standards. Driver and key electronic components can easily be accessed.

### Controls

- Optional integral passive infrared Bluetooth™ motion. Fixtures operate independently and can be commissioned via iOS or Android configuration app
- LSI's AirLink™ wireless control system options reduce energy and maintenance

costs while optimizing light quality 24/7. (see controls section for more details).

### Installation

- Designed to mount to square or round poles.
- A single fastener secures the hinged door, underneath the housing and provides quick & easy access to the electrical compartment.
- Included terminal block accepts up to 12 ga. wire.
- Utilizes LSI's traditional 3" drill pattern B3 for easy fastening of LSI products.

### Warranty

- LSI LED Fixtures carry a 5-year warranty.

### Listings

- Listed to UL 1598 and UL 8750.
- Meets Buy American Act requirements.
- IDA compliant; with 3000K color temperature selection.
- Title 24 Compliant; see local ordinance for qualification information.
- RoHS compliant
- Suitable for wet Locations.
- IP66 rated Luminaire per IEC 60598.
- 3G rated for ANSI C136.31 high vibration applications are qualified.
- DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at [www.designlights.org/QPL](http://www.designlights.org/QPL) to confirm which versions are qualified.
- Patented Silicone Optics (US Patent NO. 10,816,165 B2)
- IK08 rated luminaire per IEC 66262 mechanical impact code



# Mirada Medium Outdoor LED Area Light

Type : \_\_\_\_\_

 **Have questions?** Call us at (800) 436-7800

## ORDERING GUIDE

[Back to Quick Links](#)

**TYPICAL ORDER EXAMPLE: MRM LED 36L SIL FTA UNV DIM 50 70CRI ALSC04 BRZ IL**

| Prefix                         | Light Source | Lumen Package   | Lens           | Distribution   | Orientation <sup>2</sup>  | Voltage  | Driver                      |
|--------------------------------|--------------|---|----------------|--|---|--|-----------------------------|
| MRM - Mirada Medium Area Light | LED          | 7L - 7,000 lms, 48W<br>9L - 9,000 lms, 62W<br>12L - 12,000 lms, 85W<br>18L - 18,000 lms, 135W<br>24L - 24,000 lms, 176W<br>30L - 30,000 lms, 232W<br>36L - 36,000 lms, 288W<br>42L - 42,000 lms, 314W<br>48L - 48,000 lms, 401W<br>55L - 55,000 lms, 438W<br>Custom Lumen Packages <sup>1</sup> | SIL - Silicone | 2 - Type 2<br>3 - Type 3<br>4 - Type 4<br>5W - Type 5 Wide<br>FT - Forward Throw<br>FTA - Forward Throw Automotive<br>AM - Automotive Merchandise<br>LC - Left Corner<br>RC - Right Corner | (blank) - standard<br>L - Optics rotated left 90°<br>R - Optics rotated right 90° | UNV - Universal Voltage (120-277V)<br>HV - High Voltage (347-480V) | DIM - 0-10V Dimming (0-10%) |

| Color Temp   | Color Rendering | Finish   | Options  |
|--|-----------------|--|--|
| 50 - 5,000 CCT<br>40 - 4,000 CCT<br>30 - 3,000 CCT<br>AMB - Phosphor Converted Amber <sup>12</sup> | 70CRI - 70 CRI  | BLK - Black<br>BRZ - Dark Bronze<br>GMG - Gun Metal Gray<br>GPT - Graphite | MSV - Metallic Silver<br>PLP - Platinum Plus<br>SVG - Satin Verde Green<br>WHT - White<br>(Blank) - None<br>IH - Integral Half Louver (Moderate Spill Light Cutoff) <sup>2</sup><br>IL - Integral Louver (Sharp Spill Light Cutoff) <sup>2</sup> |

### Controls (Choose One)

(Blank) - None

#### Wireless Controls System

ALSC - AirLink Synapse Control System<sup>13</sup>

ALSC02 - AirLink Synapse Control System with 12-20' Motion Sensor<sup>13</sup>

ALSC04 - AirLink Synapse Control System with 20-40' Motion Sensor<sup>13</sup>

ALBCS1 - AirLink Blue Wireless Motion & Photo Sensor Controller (8-24' mounting height)<sup>5</sup>

ALBCS2 - AirLink Blue Wireless Motion & Photo Sensor Controller (25-40' mounting height)<sup>5</sup>

#### Stand-Alone Controls

EXT - 0-10v Dimming leads extended to housing exterior

CR7P - 7 Pin Control Receptacle ANSI C136.41<sup>6</sup>

IMSBT1L - Integral Bluetooth™ Motion and Photocell Sensor (8-24' MH)<sup>5</sup>

IMSBT12 - Integral Bluetooth™ Motion and Photocell Sensor (25-40' MH)<sup>5</sup>

#### Button Type Photocells

PC120 - 120V

PC1208-277 - 208 -277V

PC1347 - 347V



**Need more information?**

Click here for our glossary

**Have additional questions?**

Call us at (800) 436-7800



## ACCESSORY ORDERING INFORMATION<sup>7</sup>

| CONTROLS ACCESSORIES   |                |
|--|----------------|
| Description  | Order Number   |
| PC120 Photocell for use with CR7P option (120V) <sup>8</sup>                 | <b>122514</b>  |
| PC208-277 Photocell for use with CR7P option (208V, 240V, 277V) <sup>8</sup> | <b>122515</b>  |
| Twist Lock Photocell (347V) for use with CR7P <sup>8</sup>                   | <b>122516</b>  |
| Twist Lock Photocell (480V) for use with CR7P <sup>8</sup>                   | <b>1225180</b> |
| AirLink 5 Pin Twist Lock Controller (120-277V Only) <sup>8</sup>             | <b>661409</b>  |
| AirLink 7 Pin Twist Lock Controller (120-277V Only) <sup>8</sup>             | <b>661410</b>  |
| AirLink 7 Pin Twist Lock Controller (347-480V)                               | <b>679948</b>  |
| Shorting Cap for use with CR7P   | <b>149328</b>  |

| FUSING OPTIONS <sup>11</sup> |  |
|------------------------------|--|
| Single Fusing (120V)         |  |
| Single Fusing (277V)         |  |
| Double Fusing (208, 240V)    |  |
| Double Fusing (480V)         |  |
| Double Fusing (347V)         |  |

[See Fusing Accessory Guide](#)

| SHIELDING OPTIONS |  |
|-------------------|--|
| Mirada Small      |  |
| Mirada Medium     |  |
| Mirada Large      |  |
| Zone Medium       |  |
| Zone Large        |  |
| Slice Medium      |  |

[See Shielding Guide](#)

1. Custom lumen and wattage packages available, consult factory. Values are within industry standard tolerances but not DLC listed.
2. Not available with 5W distribution
3. Consult Factory for availability.
4. Not available in HV.
5. Motion sensors are field configurable via an app that can be downloaded from your smartphone's native app store. See controls section for more details.
6. Control device or shorting cap must be ordered separately. See Accessory Ordering Information.
7. Accessories are shipped separately and field installed.
8. Factory installed CR7P option required. See Options.
9. "CLR" denotes finish. See Finish options.
10. Only available with ALSC/ALSC04 control options.
11. Fusing must be located in hand hole of pole. See [Fusing Accessory Guide](#) for compatibility.
12. Only available in 9L, 12L, 18L and 24L Lumen Packages. Consult factory for lead time and availability.
13. Not available with 55L Lumen Package.

# Mirada Medium Outdoor LED Area Light

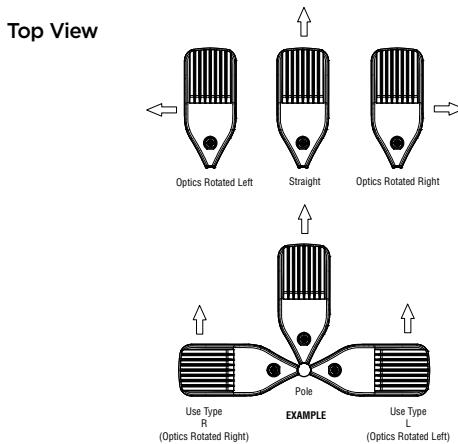
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Type: \_\_\_\_\_

## ACCESSORIES

| MOUNTING ACCESSORIES  |  |   | SHIELDING, POLES & MISC. ACCESSORIES |  |   |
|-----------------------|--|---|--------------------------------------|--|---|
| Side Arm              | <b>Universal Mounting Bracket</b><br>Mounts to ≥ 3" square or round (tapered/straight) poles with (2) mounting hole spaces between 3.5" to 5"<br><br>Part Number: BKA UMB CLR      |    | Shielding                            | <b>Integral Louver</b><br>Field Install Integral Louver provides maximum backlight control by shielding each individual row of LEDs<br><br>Part Number: 690981   |    |
|                       | <b>Quick Mount Plate</b><br>True one person installation to existing/new construction poles with hole spaces between 2.4 to 4.6"<br><br>Part Number: BKS PQM B3B5 XX CLR           |    |                                      | <b>Integral Half Louver</b><br>Field Install Integral Half Louver provides great backlight control without impacting front side distribution.<br><br>Part Number: 743415   |    |
|                       | <b>15° Tilt Quick Mount Plate</b><br>True one person installation to existing/new construction poles with hole spaces between 2.4 to 4.6"<br><br>Part Number: BKS PQ15 B3B5 XX CLR |    |                                      | <b>External Shield</b><br>External shield blocks view of light source from any side of luminaire, additional shielding configurations available<br><br>Part Number: 783607BLK (3") / 776538BLK (6")  |    |
| Tenon / Slipfitter    | <b>Adjustable Slipfitter</b><br>Mounts onto a 2" (51mm) IP, 2.375" (60mm) O.D. tenon and provides 180° of tilt (max 45° above horizontal)<br><br>Part Number: BKA ASF CLR          |    | Poles                                | <b>Square Poles</b><br>14 - 39' steel and aluminum poles in 4", 5" and 6" sizes for retrofit and new construction<br><br>Part Number: 4SQ/5SQ/6SQ  |    |
|                       | <b>Square Tenon Top</b><br>Mounts onto a 2" (51mm) IP, 2.375" (60mm) O.D. tenon and allows for mounting up to 4 luminaires<br><br>Part Number: BKA XNM *                           |    |                                      | <b>Round Poles</b><br>10 - 30' steel and aluminum poles in 4" and 5" sizes for retrofit and new construction<br><br>Part Number: 4RP/5RP   |    |
|                       | <b>Square Internal Slipfitter</b><br>Mounts inside 4" or 5" square pole and allows for mounting up to 4 luminaires<br><br>Part Number: BKA X_ISF * CLR                             |  |                                      | <b>Tapered Poles</b><br>20' - 39' steel and aluminum poles for retrofit and new construction<br><br>Part Number: RTP   |  |
| Wall Mount/ Wood Pole | <b>Wall Mount Bracket</b><br>Mounts onto vertical wall surface (hardware/anchors not included)<br><br>Part Number: BKS XBO WM CLR  |  | Misc.                                | <b>Bird Spikes</b><br>10' Linear Bird Spike Kit, 4' recommended per luminaire, includes silicone adhesive and application tool<br><br>Spike Part Number: 751631<br>Adhesive Part Number: 751632<br>Caulk Gun Part Number: 751636   |  |
|                       | <b>Wood Pole Bracket</b><br>Mounts onto wooden poles (6" minimum OD, hardware/anchors not included)<br><br>Part Number: BKS XBO WP CLR   |  |                                      | Replace CLR with paint finish description<br>Replace X with: 3<br>Replace XX with SQ for square pole or RD for round pole (≥3" OD)<br>Replace * with S (Single), D180 (Double @180°), D90 (Double @90°), T90 (Triple), Q90 (Quad)<br>Replace _ with 4 (4" square pole) or 5 (5" square pole) |   |

## OPTICS ROTATION



## ACCESSORIES/OPTIONS

### Integral Louver (IL) and House-Side Shield (IH)

Integral Louver (IL) and half louver (IH) accessory shields available for improved backlight control without sacrificing street side performance. LSI's Integral Louver (IL) and Integral House-Side Shield (IH) options deliver backlight control that significantly reduces spill light behind the poles for applications with pole locations close to adjacent properties. The design maximizes forward reflected light while reducing glare, maintaining the optical distribution selected, and most importantly eliminating light trespass. Both options rotate

Luminaire Shown with Integral Louver (IL)



Luminaire Shown with IMSBTL Option



### 7 Pin Photoelectric Control

7-pin ANSI C136.41-2013 control receptacle option available for twist lock photocontrols or wireless control modules. Control accessories sold separately. Dimming leads from the receptacle will be connected to the driver dimming leads (Consult factory for alternate wiring).

Luminaire Shown with CR7P



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SPEC.1020.B.0422

# Mirada Medium Outdoor LED Area Light

Type: \_\_\_\_\_

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## PERFORMANCE

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| DELIVERED LUMENS* |              |     |                  |          |            |                  |          |            |                  |          |            |
|-------------------|--------------|-----|------------------|----------|------------|------------------|----------|------------|------------------|----------|------------|
| Lumen Package     | Distribution | CRI | 3000K CCT        |          |            | 4000K CCT        |          |            | 5000K CCT        |          |            |
|                   |              |     | Delivered Lumens | Efficacy | BUG Rating | Delivered Lumens | Efficacy | BUG Rating | Delivered Lumens | Efficacy | BUG Rating |
| 9L                | 2            | 70  | 9853             | 159      | B2-U0-G2   | 9853             | 159      | B2-U0-G2   | 9853             | 159      | B2-U0-G2   |
|                   | 3            |     | 9926             | 160      | B2-U0-G2   | 9926             | 160      | B2-U0-G2   | 9926             | 160      | B2-U0-G2   |
|                   | 4            |     | 9178             | 148      | B2-U0-G3   | 9713             | 157      | B2-U0-G3   | 9498             | 153      | B2-U0-G3   |
|                   | 5W           |     | 9504             | 153      | B3-U0-G2   | 9504             | 153      | B3-U0-G2   | 9504             | 153      | B3-U0-G2   |
|                   | FT           |     | 9856             | 159      | B2-U0-G3   | 9856             | 159      | B2-U0-G3   | 9856             | 159      | B2-U0-G3   |
|                   | FTA          |     | 9900             | 160      | B2-U0-G2   | 9900             | 160      | B2-U0-G2   | 9900             | 160      | B2-U0-G2   |
|                   | AM           |     | 10019            | 162      | B2-U0-G1   | 10019            | 162      | B2-U0-G1   | 10019            | 162      | B2-U0-G1   |
|                   | LC/RC        |     | 9008             | 145      | B2-U0-G3   | 9533             | 154      | B2-U0-G3   | 9321             | 150      | B2-U0-G3   |
| 12L               | 2            | 70  | 13135            | 155      | B3-U0-G2   | 13135            | 155      | B3-U0-G2   | 13135            | 155      | B3-U0-G2   |
|                   | 3            |     | 13232            | 156      | B2-U0-G2   | 13232            | 156      | B2-U0-G2   | 13232            | 156      | B2-U0-G2   |
|                   | 4            |     | 12223            | 144      | B2-U0-G3   | 12935            | 152      | B2-U0-G4   | 12648            | 149      | B2-U0-G4   |
|                   | 5W           |     | 12669            | 149      | B4-U0-G2   | 12669            | 149      | B4-U0-G2   | 12669            | 149      | B4-U0-G2   |
|                   | FT           |     | 13138            | 155      | B2-U0-G3   | 13138            | 155      | B2-U0-G3   | 13138            | 155      | B2-U0-G3   |
|                   | FTA          |     | 13196            | 155      | B2-U0-G2   | 13196            | 155      | B2-U0-G2   | 13196            | 155      | B2-U0-G2   |
|                   | AM           |     | 13355            | 157      | B2-U0-G2   | 13355            | 157      | B2-U0-G2   | 13355            | 157      | B2-U0-G2   |
|                   | LC/RC        |     | 11996            | 141      | B2-U0-G3   | 12695            | 149      | B2-U0-G3   | 12414            | 146      | B2-U0-G3   |
| 18L               | 2            | 70  | 19318            | 143      | B3-U0-G3   | 19318            | 143      | B3-U0-G3   | 19318            | 143      | B3-U0-G3   |
|                   | 3            |     | 19461            | 144      | B3-U0-G3   | 19461            | 144      | B3-U0-G3   | 19461            | 144      | B3-U0-G3   |
|                   | 4            |     | 18013            | 133      | B2-U0-G4   | 19063            | 141      | B3-U0-G5   | 18640            | 138      | B3-U0-G5   |
|                   | 5W           |     | 18633            | 138      | B4-U0-G2   | 18633            | 138      | B4-U0-G2   | 18633            | 138      | B4-U0-G2   |
|                   | FT           |     | 19324            | 143      | B3-U0-G3   | 19324            | 143      | B3-U0-G3   | 19324            | 143      | B3-U0-G3   |
|                   | FTA          |     | 19408            | 144      | B3-U0-G3   | 19408            | 144      | B3-U0-G3   | 19408            | 144      | B3-U0-G3   |
|                   | AM           |     | 19641            | 145      | B3-U0-G2   | 19641            | 145      | B3-U0-G2   | 19641            | 145      | B3-U0-G2   |
|                   | LC/RC        |     | 17679            | 131      | B2-U0-G3   | 18710            | 139      | B2-U0-G3   | 18295            | 136      | B2-U0-G3   |
| 24L               | 2            | 70  | 24142            | 147      | B4-U0-G3   | 25957            | 147      | B4-U0-G3   | 25957            | 147      | B4-U0-G3   |
|                   | 3            |     | 25001            | 149      | B3-U0-G3   | 26149            | 149      | B3-U0-G3   | 26149            | 149      | B3-U0-G3   |
|                   | 4            |     | 24396            | 152      | B3-U0-G5   | 25600            | 160      | B3-U0-G5   | 25457            | 159      | B3-U0-G5   |
|                   | 5W           |     | 24327            | 142      | B5-U0-G3   | 25037            | 142      | B5-U0-G3   | 25037            | 142      | B5-U0-G3   |
|                   | FT           |     | 24994            | 148      | B3-U0-G3   | 25964            | 148      | B3-U0-G3   | 25964            | 148      | B3-U0-G3   |
|                   | FTA          |     | 24171            | 148      | B3-U0-G3   | 26077            | 148      | B4-U0-G3   | 26077            | 148      | B4-U0-G3   |
|                   | AM           |     | 24939            | 150      | B3-U0-G2   | 26393            | 150      | B3-U0-G2   | 26393            | 150      | B3-U0-G2   |
|                   | LC/RC        |     | 25884            | 162      | B3-U0-G4   | 25884            | 162      | B3-U0-G4   | 25310            | 158      | B3-U0-G4   |
| 30L               | 2            | 70  | 30171            | 140      | B4-U0-G3   | 32417            | 140      | B4-U0-G3   | 32417            | 140      | B4-U0-G3   |
|                   | 3            |     | 31243            | 141      | B3-U0-G4   | 32656            | 141      | B3-U0-G4   | 32656            | 141      | B3-U0-G4   |
|                   | 4            |     | 30651            | 144      | B3-U0-G5   | 32141            | 151      | B3-U0-G5   | 31961            | 150      | B3-U0-G5   |
|                   | 5W           |     | 30402            | 135      | B5-U0-G3   | 31267            | 135      | B5-U0-G3   | 31267            | 135      | B5-U0-G3   |
|                   | FT           |     | 31233            | 140      | B4-U0-G4   | 32424            | 140      | B4-U0-G4   | 32424            | 140      | B4-U0-G4   |
|                   | FTA          |     | 30207            | 140      | B4-U0-G4   | 32566            | 140      | B4-U0-G4   | 32566            | 140      | B4-U0-G4   |
|                   | AM           |     | 3116             | 142      | B4-U0-G3   | 32960            | 142      | B4-U0-G3   | 32960            | 142      | B4-U0-G3   |
|                   | LC/RC        |     | 32498            | 153      | B3-U0-G5   | 32498            | 153      | B3-U0-G5   | 31777            | 149      | B3-U0-G5   |

\*LEDs are frequently updated therefore values are nominal.



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SPEC.1020.B.0422

# Mirada Medium Outdoor LED Area Light

Type : \_\_\_\_\_

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## PERFORMANCE (CONT.)

| DELIVERED LUMENS* |              |     |                  |          |            |                  |          |            |                  |          |            |         |
|-------------------|--------------|-----|------------------|----------|------------|------------------|----------|------------|------------------|----------|------------|---------|
| Lumen Package     | Distribution | CRI | 3000K CCT        |          |            | 4000K CCT        |          |            | 5000K CCT        |          |            | Wattage |
|                   |              |     | Delivered Lumens | Efficacy | BUG Rating | Delivered Lumens | Efficacy | BUG Rating | Delivered Lumens | Efficacy | BUG Rating |         |
| 36L               | 2            | 70  | 35357            | 133      | B4-U0-G3   | 38275            | 133      | B4-U0-G3   | 38275            | 133      | B4-U0-G3   | 288     |
|                   | 3            |     | 36614            | 134      | B4-U0-G4   | 38557            | 134      | B4-U0-G4   | 38557            | 134      | B4-U0-G4   |         |
|                   | 4            |     | 35402            | 139      | B3-U0-G5   | 37148            | 146      | B4-U0-G5   | 36940            | 145      | B4-U0-G5   |         |
|                   | 5W           |     | 35627            | 128      | B5-U0-G4   | 36917            | 128      | B5-U0-G4   | 36917            | 128      | B5-U0-G4   |         |
|                   | FT           |     | 36602            | 133      | B4-U0-G4   | 38283            | 133      | B4-U0-G4   | 38283            | 133      | B4-U0-G4   |         |
|                   | FTA          |     | 35399            | 134      | B4-U0-G4   | 38450            | 134      | B4-U0-G4   | 38450            | 134      | B4-U0-G4   |         |
|                   | AM           |     | 36524            | 135      | B4-U0-G3   | 38916            | 135      | B4-U0-G3   | 38916            | 135      | B4-U0-G3   |         |
|                   | LC/RC        |     | 37561            | 147      | B3-U0-G5   | 37561            | 147      | B3-U0-G5   | 36727            | 144      | B3-U0-G5   |         |
|                   | 2            |     | 41035            | 131      | B5-U0-G4   | 42602            | 136      | B5-U0-G4   | 42542            | 135      | B5-U0-G4   | 314     |
| 42L               | 3            | 70  | 42493            | 135      | B4-U0-G5   | 44115            | 140      | B4-U0-G5   | 44053            | 140      | B4-U0-G5   |         |
|                   | 4            |     | 41453            | 132      | B4-U0-G5   | 43497            | 138      | B4-U0-G5   | 43254            | 138      | B4-U0-G5   |         |
|                   | 5W           |     | 41349            | 132      | B5-U0-G4   | 42927            | 134      | B5-U0-G4   | 42866            | 137      | B5-U0-G4   |         |
|                   | FT           |     | 42481            | 135      | B4-U0-G4   | 44103            | 140      | B4-U0-G4   | 44040            | 140      | B4-U0-G4   |         |
|                   | FTA          |     | 41083            | 131      | B4-U0-G4   | 42652            | 136      | B5-U0-G4   | 42591            | 136      | B5-U0-G4   |         |
|                   | AM           |     | 42389            | 135      | B4-U0-G3   | 44007            | 140      | B4-U0-G3   | 43944            | 140      | B4-U0-G3   |         |
|                   | LC/RC        |     | 43980            | 140      | B3-U0-G5   | 43980            | 140      | B3-U0-G5   | 43004            | 137      | B3-U0-G5   |         |
|                   | 2            | 70  | 45133            | 123      | B5-U0-G4   | 46856            | 128      | B5-U0-G4   | 46789            | 128      | B5-U0-G4   | 401     |
|                   | 3            |     | 46737            | 128      | B4-U0-G5   | 48521            | 133      | B4-U0-G5   | 48452            | 132      | B4-U0-G5   |         |
|                   | 4            |     | 46006            | 126      | B4-U0-G5   | 48275            | 132      | B4-U0-G5   | 48005            | 131      | B4-U0-G5   |         |
|                   | 5W           |     | 45478            | 124      | B5-U0-G4   | 47214            | 129      | B5-U0-G4   | 47147            | 129      | B5-U0-G4   |         |
|                   | FT           |     | 46723            | 128      | B4-U0-G5   | 48507            | 133      | B4-U0-G5   | 48438            | 132      | B4-U0-G5   |         |
|                   | FTA          |     | 45187            | 123      | B5-U0-G4   | 46912            | 128      | B5-U0-G4   | 46845            | 128      | B5-U0-G4   |         |
|                   | AM           |     | 4662             | 127      | B4-U0-G3   | 48402            | 132      | B4-U0-G3   | 48333            | 132      | B4-U0-G3   |         |
|                   | LC/RC        |     | 48811            | 133      | B4-U0-G5   | 48811            | 133      | B4-U0-G5   | 47728            | 130      | B4-U0-G5   |         |
| 55L               | 2            | 70  | 50179            | 115      | B5-U0-G4   | 52095            | 119      | B5-U0-G4   | 52021            | 119      | B5-U0-G4   | 438     |
|                   | 3            |     | 51963            | 119      | B4-U0-G5   | 53947            | 123      | B4-U0-G5   | 53870            | 123      | B4-U0-G5   |         |
|                   | 4            |     | 51635            | 119      | B4-U0-G5   | 54181            | 125      | B4-U0-G5   | 53878            | 124      | B4-U0-G5   |         |
|                   | 5W           |     | 50563            | 115      | B5-U0-G4   | 52493            | 120      | B5-U0-G4   | 52418            | 120      | B5-U0-G4   |         |
|                   | FT           |     | 50539            | 115      | B4-U0-G5   | 52468            | 120      | B4-U0-G5   | 52394            | 120      | B4-U0-G5   |         |
|                   | FTA          |     | 50239            | 115      | B5-U0-G4   | 52157            | 119      | B5-U0-G4   | 52082            | 119      | B5-U0-G4   |         |
|                   | AM           |     | 52223            | 119      | B4-U0-G3   | 54216            | 124      | B4-U0-G3   | 54139            | 124      | B4-U0-G3   |         |
|                   | LC/RC        |     | 54113            | 124      | B4-U0-G5   | 54113            | 124      | B4-U0-G5   | 52912            | 121      | B4-U0-G5   |         |

\*LEDs are frequently updated therefore values are nominal.



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SPEC.1020.B.0422

# Mirada Medium Outdoor LED Area Light

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Type: \_\_\_\_\_

## PERFORMANCE (CONT.)

| ELECTRICAL DATA (AMPS)* |      |      |      |      |      |      |
|-------------------------|------|------|------|------|------|------|
| Lumens                  | 120V | 208V | 240V | 277V | 347V | 480V |
| 9L                      | 0.52 | 0.30 | 0.26 | 0.22 | 0.18 | 0.13 |
| 12L                     | 0.71 | 0.41 | 0.35 | 0.31 | 0.24 | 0.18 |
| 18L                     | 1.13 | 0.65 | 0.56 | 0.49 | 0.39 | 0.28 |
| 24L                     | 1.33 | 0.77 | 0.67 | 0.58 | 0.46 | 0.33 |
| 30L                     | 1.78 | 1.02 | 0.89 | 0.77 | 0.61 | 0.44 |
| 36L                     | 2.12 | 1.22 | 1.06 | 0.92 | 0.73 | 0.53 |
| 42L                     | 2.62 | 1.51 | 1.31 | 1.13 | 0.90 | 0.65 |
| 48L                     | 3.05 | 1.76 | 1.53 | 1.32 | 1.05 | 0.76 |
| 55L                     | 3.65 | 2.11 | 1.83 | 1.58 | 1.26 | 0.91 |

| RECOMMENDED LUMEN MAINTENANCE <sup>1</sup> (0-25°C) |                      |                  |                   |                   |                    |
|---|----------------------|------------------|-------------------|-------------------|--------------------|
| Ambient   | Initial <sup>2</sup> | 25h <sup>2</sup> | 50hr <sup>2</sup> | 75hr <sup>2</sup> | 100hr <sup>2</sup> |
| 9L - 18L  | 100%                 | 97%              | 93%               | 90%               | 86%                |
| 24L - 48L   | 100%                 | 95%              | 89%               | 84%               | 79%                |
| 55L   | 100%                 | 91%              | 82%               | 74%               | 67%                |

| RECOMMENDED LUMEN MAINTENANCE <sup>1</sup> (40°C) |                      |                  |                   |                   |                    |
|---|----------------------|------------------|-------------------|-------------------|--------------------|
| Ambient   | Initial <sup>2</sup> | 25h <sup>2</sup> | 50hr <sup>2</sup> | 75hr <sup>2</sup> | 100hr <sup>2</sup> |
| 9L - 18L  | 100%                 | 97%              | 92%               | 88%               | 84%                |
| 24L - 48L   | 100%                 | 94%              | 87%               | 80%               | 74%                |

| RECOMMENDED LUMEN MAINTENANCE <sup>1</sup> (50°C) |                      |                  |                   |                   |                    |
|---|----------------------|------------------|-------------------|-------------------|--------------------|
| Ambient   | Initial <sup>2</sup> | 25h <sup>2</sup> | 50hr <sup>2</sup> | 75hr <sup>2</sup> | 100hr <sup>2</sup> |
| 9L - 18L C  | 100%                 | 96%              | 91%               | 87%               | 85%                |

\*Electrical data at 25°C (77°F). Actual wattage may differ by +/-10%

1. Lumen maintenance values at 25C are calculated per TM-21 based on LM-80 data and in-situ testing.
2. In accordance with IESNA TM-21-11, Projected Values represent interpolated value based on time durations that are within six times the IESNA LM-80-08 total test duration for the device under testing.
3. In accordance with IESNA TM-21-11, Calculated Values represent time durations that exceed six times the IESNA LM-80-08 total test duration for the device under testing.

| DELIVERED LUMENS* |              |                                       |          |            |         |
|-------------------|--------------|---------------------------------------|----------|------------|---------|
| Lumen Package     | Distribution | Phosphor Converted Amber (Peak 610mm) |          |            | Wattage |
|                   |              | Delivered Lumens                      | Efficacy | BUG Rating |         |
| 9L                | 2            | 5848                                  | 80       | B2-U0-G2   | 74      |
|                   | 3            | 6018                                  | 82       | B1-U0-G2   |         |
|                   | 5W           | 5471                                  | 74       | B3-U0-G1   |         |
|                   | FT           | 5801                                  | 79       | B1-U0-G2   |         |
|                   | FTA          | 5924                                  | 81       | B1-U0-G1   |         |
|                   | AM           | 5995                                  | 81       | B1-U0-G1   |         |
| 12L               | 2            | 7530                                  | 74       | B2-U0-G2   | 102     |
|                   | 3            | 7749                                  | 76       | B1-U0-G2   |         |
|                   | 5W           | 7045                                  | 69       | B3-U0-G2   |         |
|                   | FT           | 7470                                  | 73       | B2-U0-G2   |         |
|                   | FTA          | 7628                                  | 75       | B2-U0-G2   |         |
|                   | AM           | 7720                                  | 76       | B1-U0-G1   |         |
| 18L               | 2            | 9311                                  | 69       | B2-U0-G2   | 135     |
|                   | 3            | 9582                                  | 71       | B2-U0-G2   |         |
|                   | 5W           | 8712                                  | 65       | B3-U0-G2   |         |
|                   | FT           | 9237                                  | 68       | B2-U0-G2   |         |
|                   | FTA          | 9433                                  | 70       | B2-U0-G2   |         |
|                   | AM           | 9546                                  | 71       | B2-U0-G1   |         |
| 24L               | 2            | 10955                                 | 63       | B2-U0-G2   | 175     |
|                   | 3            | 11273                                 | 64       | B2-U0-G2   |         |
|                   | 5W           | 10249                                 | 59       | B3-U0-G2   |         |
|                   | FT           | 10867                                 | 62       | B2-U0-G2   |         |
|                   | FTA          | 11097                                 | 63       | B2-U0-G2   |         |
|                   | AM           | 11230                                 | 64       | B2-U0-G1   |         |

| ELECTRICAL DATA - PHOSPHOR CONVERTED AMBER (AMPS)* |      |      |      |      |      |
|--|------|------|------|------|------|
| Lumens   | 120V | 208V | 240V | 277V | 347V |
| 9L   | 0.62 | 0.36 | 0.31 | 0.27 | 0.21 |
| 12L  | 0.85 | 0.50 | 0.43 | 0.38 | 0.30 |
| 18L  | 1.13 | 0.65 | 0.56 | 0.49 | 0.39 |
| 24L  | 1.47 | 0.85 | 0.73 | 0.64 | 0.51 |

\*LEDs are frequently updated therefore values are nominal.



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SPEC.1020.B.0422

# Mirada Medium Outdoor LED Area Light

Type: \_\_\_\_\_



## PHOTOMETRICS

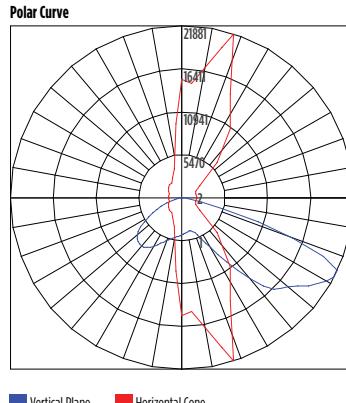
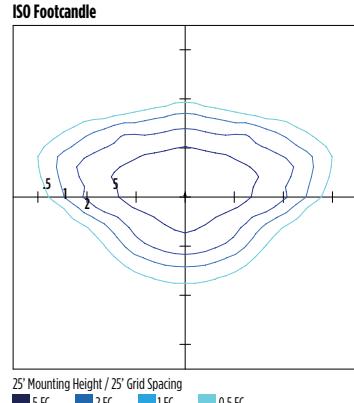
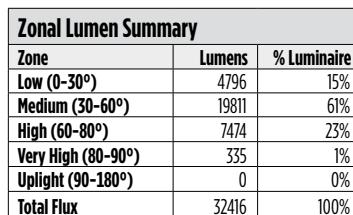
[Back to Quick Links](#)

Luminaire photometry has been conducted by a NVLAP accredited testing laboratory in accordance with IESNA LM-79-08. As specified by IESNA LM-79-08 the entire luminaire is tested as the source resulting in a luminaire efficiency of 100%.

See the individual product page on <https://www.lsicorp.com/> for detailed photometric data.

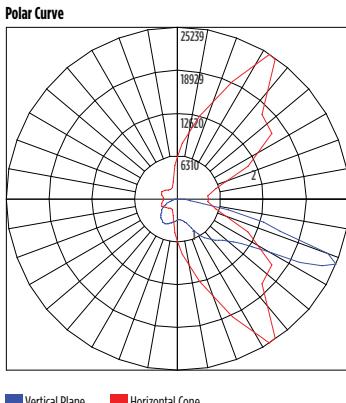
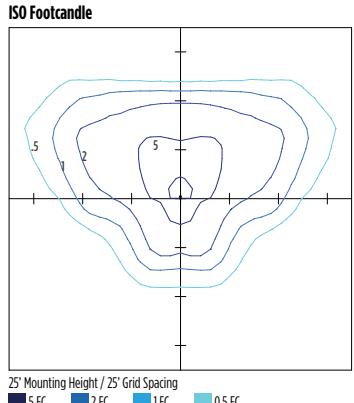
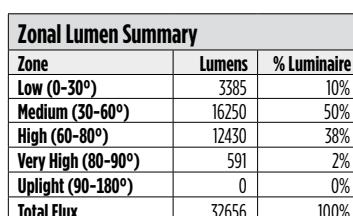
**MRM-LED-30L-SIL-2-40-70CRI**

| <b>Luminaire Data</b>      |                     |
|----------------------------|---------------------|
| <b>Type 2 Distribution</b> |                     |
| <b>Description</b>         | 4000 Kelvin, 70 CRI |
| <b>Delivered Lumens</b>    | 32,416              |
| <b>Watts</b>               | 232                 |
| <b>Efficacy</b>            | 140                 |
| <b>IES Type</b>            | Type II - Short     |
| <b>BUG Rating</b>          | B4-U0-G3            |



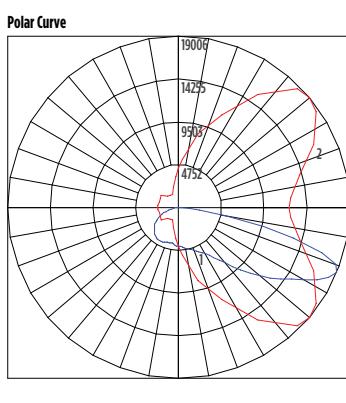
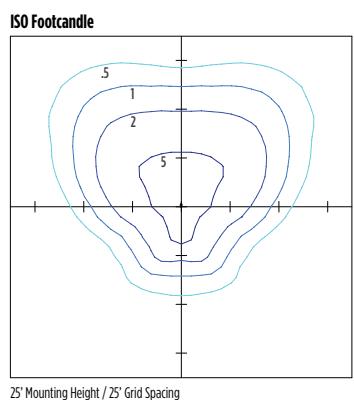
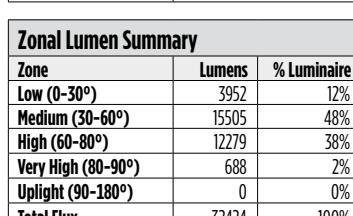
**MRM-LED-30L-SIL-3-40-70CRI**

| <b>Luminaire Data</b>      |                     |
|----------------------------|---------------------|
| <b>Type 3 Distribution</b> |                     |
| <b>Description</b>         | 4000 Kelvin, 70 CRI |
| <b>Delivered Lumens</b>    | 32,656              |
| <b>Watts</b>               | 232                 |
| <b>Efficacy</b>            | 141                 |
| <b>IES Type</b>            | Type III - Short    |
| <b>BLIIC Rating</b>        | B3-I10-G4           |



MRM-LED-30L-SIL-FT-40-70CR

| Luminaire Data       |                     |
|----------------------|---------------------|
| Type FT Distribution |                     |
| Description          | 4000 Kelvin, 70 CRI |
| Delivered Lumens     | 32,424              |
| Watts                | 232                 |
| Efficacy             | 140                 |
| IES Type             | Type IV - Short     |
| RJIC Rating          | R2, U2, C4          |



# Mirada Medium Outdoor LED Area Light

Type : \_\_\_\_\_

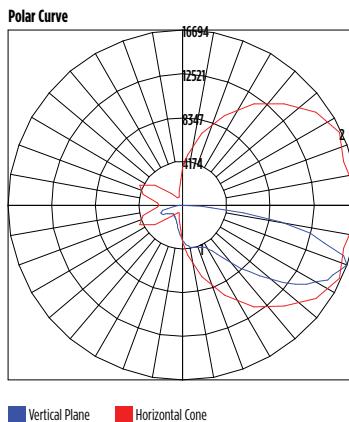
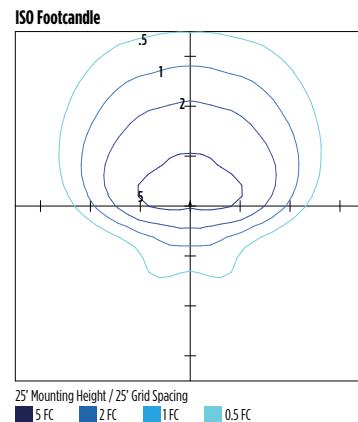
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## PHOTOMETRICS (CONT)

### MRM-LED-30L-SIL-4-40-70CRI

| Luminaire Data      |                      |
|---------------------|----------------------|
| Type 4 Distribution |                      |
| Description         | 4000 Kelvin, 70 CRI  |
| Delivered Lumens    | 32,141               |
| Watts               | 213                  |
| Efficacy            | 151                  |
| IES Type            | Type IV - Very Short |
| BUG Rating          | B3-U0-G5             |

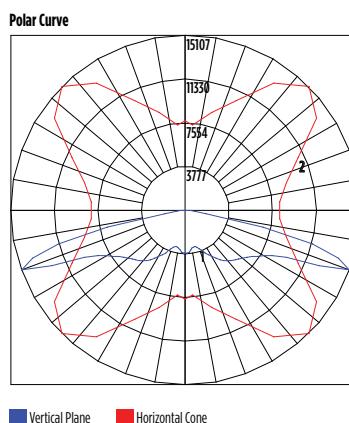
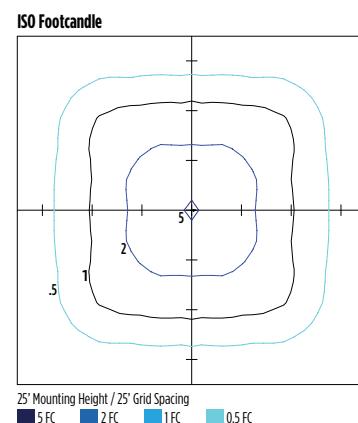
| Zonal Lumen Summary |        |             |
|---------------------|--------|-------------|
| Zone                | Lumens | % Luminaire |
| Low (0-30°)         | 3119   | 10%         |
| Medium (30-60°)     | 13569  | 42%         |
| High (60-80°)       | 13649  | 42%         |
| Very High (80-90°)  | 1804   | 6%          |
| Uplight (90-180°)   | 0      | 0%          |
| Total Flux          | 32141  | 100%        |



### MRM-LED-30L-SIL-5W-40-70CRI

| Luminaire Data       |                     |
|----------------------|---------------------|
| Type 5W Distribution |                     |
| Description          | 4000 Kelvin, 70 CRI |
| Delivered Lumens     | 31,267              |
| Watts                | 232                 |
| Efficacy             | 135                 |
| IES Type             | Type VS - Short     |
| BUG Rating           | B5-U0-G3            |

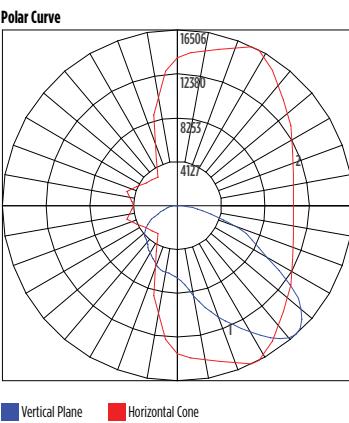
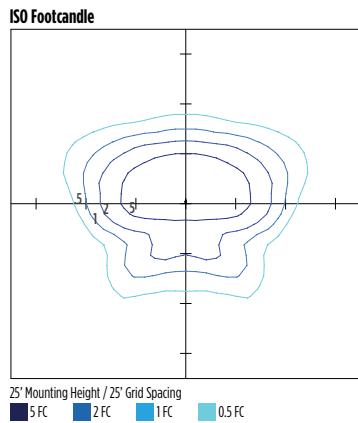
| Zonal Lumen Summary |        |             |
|---------------------|--------|-------------|
| Zone                | Lumens | % Luminaire |
| Low (0-30°)         | 3138   | 10%         |
| Medium (30-60°)     | 13193  | 42%         |
| High (60-80°)       | 14641  | 47%         |
| Very High (80-90°)  | 296    | 1%          |
| Uplight (90-180°)   | 0      | 0%          |
| Total Flux          | 31267  | 100%        |



### MRM-LED-30L-SIL-FTA-40-70CRI

| Luminaire Data        |                     |
|-----------------------|---------------------|
| Type FTA Distribution |                     |
| Description           | 4000 Kelvin, 70 CRI |
| Delivered Lumens      | 32,566              |
| Watts                 | 232                 |
| Efficacy              | 140                 |
| IES Type              | Type VS - Short     |
| BUG Rating            | B4-U0-G3            |

| Zonal Lumen Summary |        |             |
|---------------------|--------|-------------|
| Zone                | Lumens | % Luminaire |
| Low (0-30°)         | 6986   | 21%         |
| Medium (30-60°)     | 19172  | 59%         |
| High (60-80°)       | 5875   | 18%         |
| Very High (80-90°)  | 534    | 2%          |
| Uplight (90-180°)   | 0      | 0%          |
| Total Flux          | 32566  | 100%        |



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# Mirada Medium Outdoor LED Area Light

Type: \_\_\_\_\_

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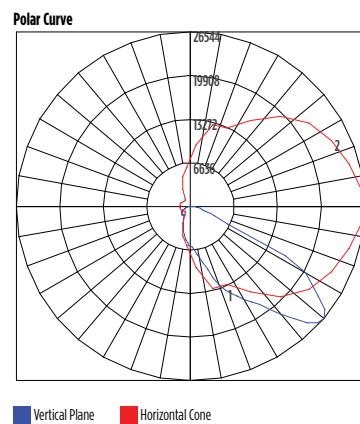
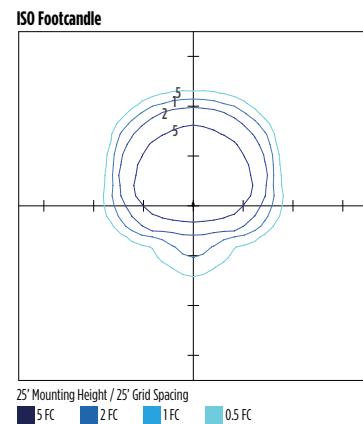
## PHOTOMETRICS (CONT)

[Back to Quick Links](#)

### MRM-LED-30L-SIL-AM-40-70CRI

| Luminaire Data       |                       |
|----------------------|-----------------------|
| Type AM Distribution |                       |
| Description          | 4000 Kelvin, 70 CRI   |
| Delivered Lumens     | 32,960                |
| Watts                | 232                   |
| Efficacy             | 142                   |
| IES Type             | Type III - Very Short |
| BUG Rating           | B3-U0-G3              |

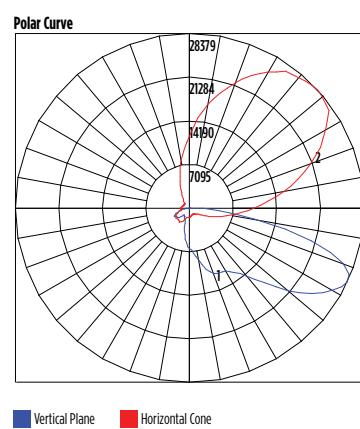
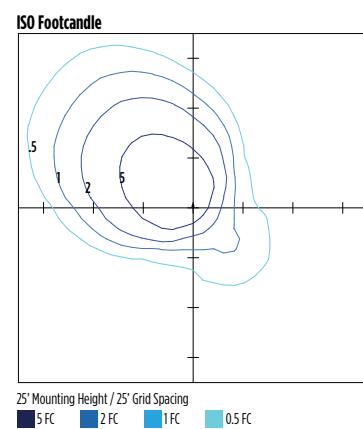
| Zonal Lumen Summary |        |             |
|---------------------|--------|-------------|
| Zone                | Lumens | % Luminaire |
| Low (0-30°)         | 6363   | 19%         |
| Medium (30-60°)     | 22026  | 67%         |
| High (60-80°)       | 4192   | 13%         |
| Very High (80-90°)  | 379    | 1%          |
| Uplight (90-180°)   | 0      | 0%          |
| Total Flux          | 32960  | 100%        |



### MRM-LED-30L-SIL-LC-40-70CRI

| Luminaire Data           |                     |
|--------------------------|---------------------|
| Left Corner Distribution |                     |
| Description              | 4000 Kelvin, 70 CRI |
| Delivered Lumens         | 32,498              |
| Watts                    | 213                 |
| Efficacy                 | 153                 |
| IES Type                 | N/A                 |
| BUG Rating               | B3-U0-G5            |

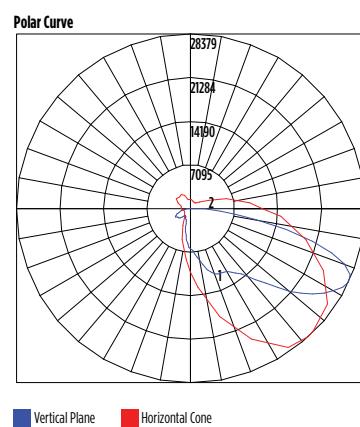
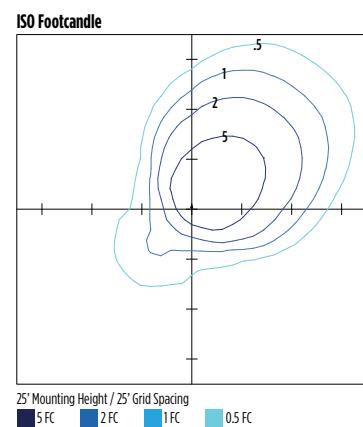
| Zonal Lumen Summary |        |             |
|---------------------|--------|-------------|
| Zone                | Lumens | % Luminaire |
| Low (0-30°)         | 5083   | 16%         |
| Medium (30-60°)     | 14808  | 46%         |
| High (60-80°)       | 11603  | 36%         |
| Very High (80-90°)  | 1005   | 3%          |
| Uplight (90-180°)   | 0      | 0%          |
| Total Flux          | 32498  | 100%        |



### MRM-LED-30L-SIL-RC-40-70CRI

| Luminaire Data            |                     |
|---------------------------|---------------------|
| Right Corner Distribution |                     |
| Description               | 4000 Kelvin, 70 CRI |
| Delivered Lumens          | 32,498              |
| Watts                     | 213                 |
| Efficacy                  | 153                 |
| IES Type                  | N/A                 |
| BUG Rating                | B3-U0-G5            |

| Zonal Lumen Summary |        |             |
|---------------------|--------|-------------|
| Zone                | Lumens | % Luminaire |
| Low (0-30°)         | 5083   | 16%         |
| Medium (30-60°)     | 14808  | 46%         |
| High (60-80°)       | 11603  | 36%         |
| Very High (80-90°)  | 1005   | 3%          |
| Uplight (90-180°)   | 0      | 0%          |
| Total Flux          | 32498  | 100%        |

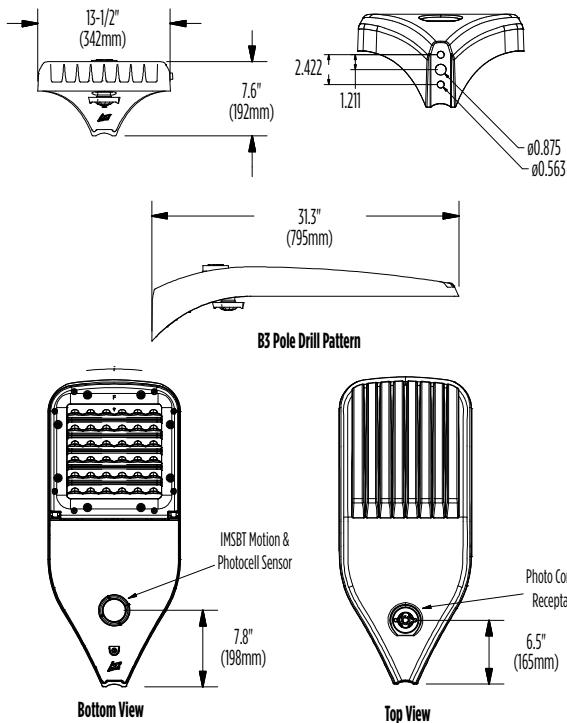


# Mirada Medium Outdoor LED Area Light

Type: \_\_\_\_\_

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## PRODUCT DIMENSIONS



### Luminaire EPA Chart

| Tilt Degree   | 0°  | 15° | 30° | 45° |
|---|-----|-----|-----|-----|
|  <b>Single</b> | 0.5 | 1.0 | 1.5 | 1.9 |
|  <b>D180°</b>  | 1.0 | 1.5 | 1.5 | 1.9 |
|  <b>D90°</b>   | 0.8 | 1.8 | 1.9 | 2.3 |
|  <b>T90°</b>   | 1.0 | 4.0 | 2.5 | 2.8 |
|  <b>TN120°</b> | 1.0 | 2.9 | 3.3 | 3.9 |
|  <b>Q90°</b>   | 1.0 | 4.0 | 2.5 | 2.8 |



# Mirada Medium Outdoor LED Area Light

Type: \_\_\_\_\_

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## CONTROLS

### Integral Bluetooth™ Motion and Photocell Sensor (IMSBTxL)

Slim low profile sensor provides multi-level control based on motion and/or daylight. Sensor controls 0-10 VDC LED drivers and is IP66 rated for cold and wet locations (-40°F to 167°F). Two unique PIR lenses are available and used based on fixture mounting height. All control parameters are adjustable via an iOS or Android App capable of storing and transmitting sensor profiles.

[Click here to learn more details about IMSBT](#)



LEVITON App



Apple



Android

### AirLink Blue (ALBCSx)

Wireless Bluetooth Mesh Outdoor Lighting Control System that provides energy savings, code compliance and enhanced safety/security for parking lots and parking garages. Three key components; Bluetooth wireless radio/sensor controller, Time Keeper and an iOS App. Capable of grouping multiple fixtures and sensors as well as scheduling time-based events by zone. Radio/Sensor Controller is factory integrated into Area/Site, Wall Mounted, Parking Garage and Canopy luminaires.

[Click here to learn more details about AirLink Blue](#)



AirLink Blue App



Apple

## Sensor Sequence of Operations

| Standard Programming | On Event | Off Event | On Light Level | Dim Light Level | Daylight Harvesting  | Delay To Off | Sensitivity |
|----------------------|----------|-----------|----------------|-----------------|----------------------|--------------|-------------|
| OMSBTxL/IMSBTxL      | Motion   | No Motion | 100%           | N/A             | On; Auto Calibration | 20 minutes   | High        |
| OMS                  | Motion   | No Motion | N/A            | N/A             | N/A                  | 30 seconds   | Auto        |

| Operation       | Description  |
|-----------------|--|
| On Event        | Trigger that activates lights to turn on; either automatic via motion detected or manually activated via push of button.   |
| Off Event       | Trigger that activates lights to turn off; either automatic via no motion detected or manually activated via push of button.   |
| On Light Level  | The light level that the fixtures will turn on to when ON EVENT occurs.  |
| Dim Light Level | The light level that the fixtures will dim down to when no motion is detected.   |
| Delay to Dim    | The amount of time after which no motion is detected that the fixtures will be triggered to dim down. This sequence is optional, and sensor can be programmed to only trigger the fixture to turn off by entering 100% in this field.  |
| Delay to Off    | The amount of time after which no motion is detected that the fixtures will be triggered to turn off. If delay to dim is part of the programmed functionality, this is the amount of time after which no motion is detected after the fixture have already dimmed down.  |
| Sensitivity     | The sensitivity can be set to high, medium, low, or auto where applicable. High will detect smaller, simple motions. Low will only detect larger more complex motions. Auto temperature calibration adjusts the PIR sensitivity as ambient temperature rises to increase detection of heat movement through the field of view. |



# Mirada Medium (MRM)

## Outdoor LED Area Light



IP66 IK08



| OVERVIEW             |                             |
|----------------------|-----------------------------|
| Lumen Package        | 7,000 - 55,000              |
| Wattage Range        | 48 - 438                    |
| Efficacy Range (LPW) | 115 - 162                   |
| Weight lbs(kg)       | 30 (13.6)                   |
| Control Options      | IMSBT, ALB, ALS, 7-Pin, PCI |

### QUICK LINKS

[Ordering Guide](#)[Performance](#)[Photometrics](#)[Dimensions](#)

## FEATURES & SPECIFICATIONS

### Construction

- Rugged die-cast aluminum housing contains factory prewired driver and optical unit. Cast aluminum wiring access door located underneath.
- Designed to mount to square or round poles.
- Fixtures are finished with LSI's DuraGrip® polyester powder coat finishing process. The DuraGrip finish withstands extreme weather changes without cracking or peeling. Other standard LSI finishes available. Consult factory.
- Shipping weight: 37 lbs in carton.

### Optical System

- State-of-the-Art one piece silicone optic sheet delivers industry leading optical control with an integrated gasket to provide IP66 rated sealed optical chamber in 1 component.
- Proprietary silicone refractor optics provide exceptional coverage and uniformity in IES Types 2, 3, 4, 5W, FT, FTA, AM, and LC/RC.
- Silicone optical material does not yellow or crack with age and provides a typical light transmittance of 93-95%.
- Zero uplight.
- Available in 5000K, 4000K, and 3000K color temperatures per ANSI C78.377. Also Available in Phosphor Converted Amber with Peak intensity at 610nm.
- Minimum CRI of 70.
- Integral louver (IL) and integral half louver (IH) options available for enhanced backlight control.

### Electrical

- High-performance programmable driver features over-voltage, under-voltage, short-circuit and over temperature protection. Custom lumen and wattage packages available.
- 0-10V dimming (10% - 100%) standard.
- Standard Universal Voltage (120-277 Vac) Input 50/60 Hz or optional High Voltage (347-480 Vac).
- L80 Calculated Life: >100k Hours (See Lumen Maintenance chart)
- Total harmonic distortion: <20%
- Operating temperature: -40°C to +50°C (-40°F to +122°F). 42L and 48L lumen packages rated to +40°C. 55L lumen package rate to +35°C.
- Power factor: >.90
- Input power stays constant over life.
- Field replaceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).
- High-efficacy LEDs mounted to metal-core circuit board to maximize heat dissipation
- Components are fully encased in potting material for moisture resistance. Driver complies with FCC standards. Driver and key electronic components can easily be accessed.

### Controls

- Optional integral passive infrared Bluetooth™ motion. Fixtures operate independently and can be commissioned via iOS or Android configuration app
- LSI's AirLink™ wireless control system options reduce energy and maintenance

costs while optimizing light quality 24/7. (see controls section for more details).

### Installation

- Designed to mount to square or round poles.
- A single fastener secures the hinged door, underneath the housing and provides quick & easy access to the electrical compartment.
- Included terminal block accepts up to 12 ga. wire.
- Utilizes LSI's traditional 3" drill pattern B3 for easy fastening of LSI products.

### Warranty

- LSI LED Fixtures carry a 5-year warranty.

### Listings

- Listed to UL 1598 and UL 8750.
- Meets Buy American Act requirements.
- IDA compliant; with 3000K color temperature selection.
- Title 24 Compliant; see local ordinance for qualification information.
- RoHS compliant
- Suitable for wet Locations.
- IP66 rated Luminaire per IEC 60598.
- 3G rated for ANSI C136.31 high vibration applications are qualified.
- DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at [www.designlights.org/QPL](http://www.designlights.org/QPL) to confirm which versions are qualified.
- Patented Silicone Optics (US Patent NO. 10,816,165 B2)
- IK08 rated luminaire per IEC 66262 mechanical impact code



# Mirada Medium Outdoor LED Area Light

 **Have questions?** Call us at (800) 436-7800

Type : \_\_\_\_\_

## ORDERING GUIDE

[Back to Quick Links](#)

**TYPICAL ORDER EXAMPLE: MRM LED 36L SIL FTA UNV DIM 50 70CRI ALSCS04 BRZ IL**

| Prefix                         | Light Source | Lumen Package   | Lens           | Distribution   | Orientation <sup>2</sup>  | Voltage  | Driver                      |
|--------------------------------|--------------|---|----------------|--|---|--|-----------------------------|
| MRM - Mirada Medium Area Light | LED          | 7L - 7,000 lms, 48W<br>9L - 9,000 lms, 62W<br>12L - 12,000 lms, 85W<br>18L - 18,000 lms, 135W<br>24L - 24,000 lms, 176W<br>30L - 30,000 lms, 232W<br>36L - 36,000 lms, 288W<br>42L - 42,000 lms, 314W<br>48L - 48,000 lms, 401W<br>55L - 55,000 lms, 438W<br>Custom Lumen Packages <sup>1</sup> | SIL - Silicone | 2 - Type 2<br>3 - Type 3<br>4 - Type 4<br>5W - Type 5 Wide<br>FT - Forward Throw<br>FTA - Forward Throw Automotive<br>AM - Automotive Merchandise<br>LC - Left Corner<br>RC - Right Corner | (blank) - standard<br>L - Optics rotated left 90°<br>R - Optics rotated right 90° | UNV - Universal Voltage (120-277V)<br>HV - High Voltage (347-480V) | DIM - 0-10V Dimming (0-10%) |

| Color Temp   | Color Rendering | Finish   | Options  |
|--|-----------------|--|--|
| 50 - 5,000 CCT<br>40 - 4,000 CCT<br>30 - 3,000 CCT<br>AMB - Phosphor Converted Amber <sup>12</sup> | 70CRI - 70 CRI  | BLK - Black<br>BRZ - Dark Bronze<br>GMG - Gun Metal Gray<br>GPT - Graphite | MSV - Metallic Silver<br>PLP - Platinum Plus<br>SVG - Satin Verde Green<br>WHT - White<br>(Blank) - None<br>IH - Integral Half Louver (Moderate Spill Light Cutoff) <sup>2</sup><br>IL - Integral Louver (Sharp Spill Light Cutoff) <sup>2</sup> |

### Controls (Choose One)

(Blank) - None

#### Wireless Controls System

ALSC - AirLink Synapse Control System<sup>13</sup>

ALSCS02 - AirLink Synapse Control System with 12-20' Motion Sensor<sup>13</sup>

ALSCS04 - AirLink Synapse Control System with 20-40' Motion Sensor<sup>13</sup>

ALBCS1 - AirLink Blue Wireless Motion & Photo Sensor Controller (8-24' mounting height)<sup>5</sup>

ALBCS2 - AirLink Blue Wireless Motion & Photo Sensor Controller (25-40' mounting height)<sup>5</sup>

#### Stand-Alone Controls

EXT - 0-10v Dimming leads extended to housing exterior

CR7P - 7 Pin Control Receptacle ANSI C136.41<sup>6</sup>

IMSBT1L - Integral Bluetooth™ Motion and Photocell Sensor (8-24' MH)<sup>5</sup>

IMSBT12 - Integral Bluetooth™ Motion and Photocell Sensor (25-40' MH)<sup>5</sup>

#### Button Type Photocells

PC1120 - 120V

PC1208-277 - 208 -277V

PC1347 - 347V



**Need more information?**

Click here for our glossary

**Have additional questions?**

Call us at (800) 436-7800



## ACCESSORY ORDERING INFORMATION<sup>7</sup>

| CONTROLS ACCESSORIES   |                |
|--|----------------|
| Description  | Order Number   |
| PC120 Photocell for use with CR7P option (120V) <sup>8</sup>                 | <b>122514</b>  |
| PC208-277 Photocell for use with CR7P option (208V, 240V, 277V) <sup>8</sup> | <b>122515</b>  |
| Twist Lock Photocell (347V) for use with CR7P <sup>8</sup>                   | <b>122516</b>  |
| Twist Lock Photocell (480V) for use with CR7P <sup>8</sup>                   | <b>1225180</b> |
| AirLink 5 Pin Twist Lock Controller (120-277V Only) <sup>8</sup>             | <b>661409</b>  |
| AirLink 7 Pin Twist Lock Controller (120-277V Only) <sup>8</sup>             | <b>661410</b>  |
| AirLink 7 Pin Twist Lock Controller (347-480V)                               | <b>679948</b>  |
| Shorting Cap for use with CR7P   | <b>149328</b>  |

| FUSING OPTIONS <sup>11</sup> |  |
|------------------------------|--|
| Single Fusing (120V)         |  |
| Single Fusing (277V)         |  |
| Double Fusing (208, 240V)    |  |
| Double Fusing (480V)         |  |
| Double Fusing (347V)         |  |

[See Fusing Accessory Guide](#)

| SHIELDING OPTIONS |  |
|-------------------|--|
| Mirada Small      |  |
| Mirada Medium     |  |
| Mirada Large      |  |
| Zone Medium       |  |
| Zone Large        |  |
| Slice Medium      |  |

[See Shielding Guide](#)

1. Custom lumen and wattage packages available, consult factory. Values are within industry standard tolerances but not DLC listed.
2. Not available with 5W distribution
3. Consult Factory for availability.
4. Not available in HV.
5. Motion sensors are field configurable via an app that can be downloaded from your smartphone's native app store. See controls section for more details.
6. Control device or shorting cap must be ordered separately. See Accessory Ordering Information.
7. Accessories are shipped separately and field installed.
8. Factory installed CR7P option required. See Options.
9. "CLR" denotes finish. See Finish options.
10. Only available with ALSC/ALSCH control options.
11. Fusing must be located in hand hole of pole. See [Fusing Accessory Guide](#) for compatibility.
12. Only available in 9L, 12L, 18L and 24L Lumen Packages. Consult factory for lead time and availability.
13. Not available with 55L Lumen Package.

# Mirada Medium Outdoor LED Area Light

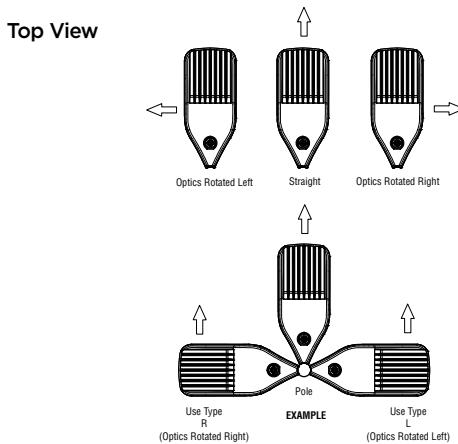
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Type: \_\_\_\_\_

## ACCESSORIES

| MOUNTING ACCESSORIES  |  |   | SHIELDING, POLES & MISC. ACCESSORIES |  |   |
|-----------------------|--|---|--------------------------------------|--|---|
| Side Arm              | <b>Universal Mounting Bracket</b><br>Mounts to ≥ 3" square or round (tapered/straight) poles with (2) mounting hole spaces between 3.5" to 5"<br><br>Part Number: BKA UMB CLR      |    | Shielding                            | <b>Integral Louver</b><br>Field Install Integral Louver provides maximum backlight control by shielding each individual row of LEDs<br><br>Part Number: 690981   |    |
|                       | <b>Quick Mount Plate</b><br>True one person installation to existing/new construction poles with hole spaces between 2.4 to 4.6"<br><br>Part Number: BKS PQM B3B5 XX CLR           |    |                                      | <b>Integral Half Louver</b><br>Field Install Integral Half Louver provides great backlight control without impacting front side distribution.<br><br>Part Number: 743415   |    |
|                       | <b>15° Tilt Quick Mount Plate</b><br>True one person installation to existing/new construction poles with hole spaces between 2.4 to 4.6"<br><br>Part Number: BKS PQ15 B3B5 XX CLR |    |                                      | <b>External Shield</b><br>External shield blocks view of light source from any side of luminaire, additional shielding configurations available<br><br>Part Number: 783607BLK (3") / 776538BLK (6")  |    |
| Tenon / Slipfitter    | <b>Adjustable Slipfitter</b><br>Mounts onto a 2" (51mm) IP, 2.375" (60mm) O.D. tenon and provides 180° of tilt (max 45° above horizontal)<br><br>Part Number: BKA ASF CLR          |    | Poles                                | <b>Square Poles</b><br>14 - 39' steel and aluminum poles in 4", 5" and 6" sizes for retrofit and new construction<br><br>Part Number: 4SQ/5SQ/6SQ  |    |
|                       | <b>Square Tenon Top</b><br>Mounts onto a 2" (51mm) IP, 2.375" (60mm) O.D. tenon and allows for mounting up to 4 luminaires<br><br>Part Number: BKA XNM *                           |    |                                      | <b>Round Poles</b><br>10 - 30' steel and aluminum poles in 4" and 5" sizes for retrofit and new construction<br><br>Part Number: 4RP/5RP   |    |
|                       | <b>Square Internal Slipfitter</b><br>Mounts inside 4" or 5" square pole and allows for mounting up to 4 luminaires<br><br>Part Number: BKA X_ISF * CLR                             |  |                                      | <b>Tapered Poles</b><br>20' - 39' steel and aluminum poles for retrofit and new construction<br><br>Part Number: RTP   |  |
| Wall Mount/ Wood Pole | <b>Wall Mount Bracket</b><br>Mounts onto vertical wall surface (hardware/anchors not included)<br><br>Part Number: BKS XBO WM CLR  |  | Misc.                                | <b>Bird Spikes</b><br>10' Linear Bird Spike Kit, 4' recommended per luminaire, includes silicone adhesive and application tool<br><br>Spike Part Number: 751631<br>Adhesive Part Number: 751632<br>Caulk Gun Part Number: 751636   |  |
|                       | <b>Wood Pole Bracket</b><br>Mounts onto wooden poles (6" minimum OD, hardware/anchors not included)<br><br>Part Number: BKS XBO WP CLR   |  |                                      | Replace CLR with paint finish description<br>Replace X with: 3<br>Replace XX with SQ for square pole or RD for round pole (≥3" OD)<br>Replace * with S (Single), D180 (Double @180°), D90 (Double @90°), T90 (Triple), Q90 (Quad)<br>Replace _ with 4 (4" square pole) or 5 (5" square pole) |   |

## OPTICS ROTATION



## ACCESSORIES/OPTIONS

### Integral Louver (IL) and House-Side Shield (IH)

Integral Louver (IL) and half louver (IH) accessory shields available for improved backlight control without sacrificing street side performance. LSI's Integral Louver (IL) and Integral House-Side Shield (IH) options deliver backlight control that significantly reduces spill light behind the poles for applications with pole locations close to adjacent properties. The design maximizes forward reflected light while reducing glare, maintaining the optical distribution selected, and most importantly eliminating light trespass. Both options rotate

Luminaire Shown with Integral Louver (IL)



Luminaire Shown with IMSBTL Option



### 7 Pin Photoelectric Control

7-pin ANSI C136.41-2013 control receptacle option available for twist lock photocontrols or wireless control modules. Control accessories sold separately. Dimming leads from the receptacle will be connected to the driver dimming leads (Consult factory for alternate wiring).

Luminaire Shown with CR7P



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SPEC.1020.B.0422

# Mirada Medium Outdoor LED Area Light

Type: \_\_\_\_\_

 Have questions? Call us at (800) 436-7800

## PERFORMANCE

[Back to Quick Links](#)

### DELIVERED LUMENS\*

| Lumen Package | Distribution | CRI | 3000K CCT        |          |            | 4000K CCT        |          |            | 5000K CCT        |          |            | Wattage |
|---------------|--------------|-----|------------------|----------|------------|------------------|----------|------------|------------------|----------|------------|---------|
|               |              |     | Delivered Lumens | Efficacy | BUG Rating | Delivered Lumens | Efficacy | BUG Rating | Delivered Lumens | Efficacy | BUG Rating |         |
| 9L            | 2            | 70  | 9853             | 159      | B2-U0-G2   | 9853             | 159      | B2-U0-G2   | 9853             | 159      | B2-U0-G2   | 62      |
|               | 3            |     | 9926             | 160      | B2-U0-G2   | 9926             | 160      | B2-U0-G2   | 9926             | 160      | B2-U0-G2   |         |
|               | 4            |     | 9178             | 148      | B2-U0-G3   | 9713             | 157      | B2-U0-G3   | 9498             | 153      | B2-U0-G3   |         |
|               | 5W           |     | 9504             | 153      | B3-U0-G2   | 9504             | 153      | B3-U0-G2   | 9504             | 153      | B3-U0-G2   |         |
|               | FT           |     | 9856             | 159      | B2-U0-G3   | 9856             | 159      | B2-U0-G3   | 9856             | 159      | B2-U0-G3   |         |
|               | FTA          |     | 9900             | 160      | B2-U0-G2   | 9900             | 160      | B2-U0-G2   | 9900             | 160      | B2-U0-G2   |         |
|               | AM           |     | 10019            | 162      | B2-U0-G1   | 10019            | 162      | B2-U0-G1   | 10019            | 162      | B2-U0-G1   |         |
|               | LC/RC        |     | 9008             | 145      | B2-U0-G3   | 9533             | 154      | B2-U0-G3   | 9321             | 150      | B2-U0-G3   |         |
| 12L           | 2            | 70  | 13135            | 155      | B3-U0-G2   | 13135            | 155      | B3-U0-G2   | 13135            | 155      | B3-U0-G2   | 85      |
|               | 3            |     | 13232            | 156      | B2-U0-G2   | 13232            | 156      | B2-U0-G2   | 13232            | 156      | B2-U0-G2   |         |
|               | 4            |     | 12223            | 144      | B2-U0-G3   | 12935            | 152      | B2-U0-G4   | 12648            | 149      | B2-U0-G4   |         |
|               | 5W           |     | 12669            | 149      | B4-U0-G2   | 12669            | 149      | B4-U0-G2   | 12669            | 149      | B4-U0-G2   |         |
|               | FT           |     | 13138            | 155      | B2-U0-G3   | 13138            | 155      | B2-U0-G3   | 13138            | 155      | B2-U0-G3   |         |
|               | FTA          |     | 13196            | 155      | B2-U0-G2   | 13196            | 155      | B2-U0-G2   | 13196            | 155      | B2-U0-G2   |         |
|               | AM           |     | 13355            | 157      | B2-U0-G2   | 13355            | 157      | B2-U0-G2   | 13355            | 157      | B2-U0-G2   |         |
|               | LC/RC        |     | 11996            | 141      | B2-U0-G3   | 12695            | 149      | B2-U0-G3   | 12414            | 146      | B2-U0-G3   |         |
| 18L           | 2            | 70  | 19318            | 143      | B3-U0-G3   | 19318            | 143      | B3-U0-G3   | 19318            | 143      | B3-U0-G3   | 135     |
|               | 3            |     | 19461            | 144      | B3-U0-G3   | 19461            | 144      | B3-U0-G3   | 19461            | 144      | B3-U0-G3   |         |
|               | 4            |     | 18013            | 133      | B2-U0-G4   | 19063            | 141      | B3-U0-G5   | 18640            | 138      | B3-U0-G5   |         |
|               | 5W           |     | 18633            | 138      | B4-U0-G2   | 18633            | 138      | B4-U0-G2   | 18633            | 138      | B4-U0-G2   |         |
|               | FT           |     | 19324            | 143      | B3-U0-G3   | 19324            | 143      | B3-U0-G3   | 19324            | 143      | B3-U0-G3   |         |
|               | FTA          |     | 19408            | 144      | B3-U0-G3   | 19408            | 144      | B3-U0-G3   | 19408            | 144      | B3-U0-G3   |         |
|               | AM           |     | 19641            | 145      | B3-U0-G2   | 19641            | 145      | B3-U0-G2   | 19641            | 145      | B3-U0-G2   |         |
|               | LC/RC        |     | 17679            | 131      | B2-U0-G3   | 18710            | 139      | B2-U0-G3   | 18295            | 136      | B2-U0-G3   |         |
| 24L           | 2            | 70  | 24142            | 147      | B4-U0-G3   | 25957            | 147      | B4-U0-G3   | 25957            | 147      | B4-U0-G3   | 176     |
|               | 3            |     | 25001            | 149      | B3-U0-G3   | 26149            | 149      | B3-U0-G3   | 26149            | 149      | B3-U0-G3   |         |
|               | 4            |     | 24396            | 152      | B3-U0-G5   | 25600            | 160      | B3-U0-G5   | 25457            | 159      | B3-U0-G5   |         |
|               | 5W           |     | 24327            | 142      | B5-U0-G3   | 25037            | 142      | B5-U0-G3   | 25037            | 142      | B5-U0-G3   |         |
|               | FT           |     | 24994            | 148      | B3-U0-G3   | 25964            | 148      | B3-U0-G3   | 25964            | 148      | B3-U0-G3   |         |
|               | FTA          |     | 24171            | 148      | B3-U0-G3   | 26077            | 148      | B4-U0-G3   | 26077            | 148      | B4-U0-G3   |         |
|               | AM           |     | 24939            | 150      | B3-U0-G2   | 26393            | 150      | B3-U0-G2   | 26393            | 150      | B3-U0-G2   |         |
|               | LC/RC        |     | 25884            | 162      | B3-U0-G4   | 25884            | 162      | B3-U0-G4   | 25310            | 158      | B3-U0-G4   |         |
| 30L           | 2            | 70  | 30171            | 140      | B4-U0-G3   | 32417            | 140      | B4-U0-G3   | 32417            | 140      | B4-U0-G3   | 232     |
|               | 3            |     | 31243            | 141      | B3-U0-G4   | 32656            | 141      | B3-U0-G4   | 32656            | 141      | B3-U0-G4   |         |
|               | 4            |     | 30651            | 144      | B3-U0-G5   | 32141            | 151      | B3-U0-G5   | 31961            | 150      | B3-U0-G5   |         |
|               | 5W           |     | 30402            | 135      | B5-U0-G3   | 31267            | 135      | B5-U0-G3   | 31267            | 135      | B5-U0-G3   |         |
|               | FT           |     | 31233            | 140      | B4-U0-G4   | 32424            | 140      | B4-U0-G4   | 32424            | 140      | B4-U0-G4   |         |
|               | FTA          |     | 30207            | 140      | B4-U0-G4   | 32566            | 140      | B4-U0-G4   | 32566            | 140      | B4-U0-G4   |         |
|               | AM           |     | 3116             | 142      | B4-U0-G3   | 32960            | 142      | B4-U0-G3   | 32960            | 142      | B4-U0-G3   |         |
|               | LC/RC        |     | 32498            | 153      | B3-U0-G5   | 32498            | 153      | B3-U0-G5   | 31777            | 149      | B3-U0-G5   |         |

\*LEDs are frequently updated therefore values are nominal.



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# Mirada Medium Outdoor LED Area Light

Type : \_\_\_\_\_

 Have questions? Call us at (800) 436-7800

## PERFORMANCE (CONT.)

| DELIVERED LUMENS* |              |     |                  |          |            |                  |          |            |                  |          |            |         |
|-------------------|--------------|-----|------------------|----------|------------|------------------|----------|------------|------------------|----------|------------|---------|
| Lumen Package     | Distribution | CRI | 3000K CCT        |          |            | 4000K CCT        |          |            | 5000K CCT        |          |            | Wattage |
|                   |              |     | Delivered Lumens | Efficacy | BUG Rating | Delivered Lumens | Efficacy | BUG Rating | Delivered Lumens | Efficacy | BUG Rating |         |
| 36L               | 2            | 70  | 35357            | 133      | B4-U0-G3   | 38275            | 133      | B4-U0-G3   | 38275            | 133      | B4-U0-G3   | 288     |
|                   | 3            |     | 36614            | 134      | B4-U0-G4   | 38557            | 134      | B4-U0-G4   | 38557            | 134      | B4-U0-G4   |         |
|                   | 4            |     | 35402            | 139      | B3-U0-G5   | 37148            | 146      | B4-U0-G5   | 36940            | 145      | B4-U0-G5   |         |
|                   | 5W           |     | 35627            | 128      | B5-U0-G4   | 36917            | 128      | B5-U0-G4   | 36917            | 128      | B5-U0-G4   |         |
|                   | FT           |     | 36602            | 133      | B4-U0-G4   | 38283            | 133      | B4-U0-G4   | 38283            | 133      | B4-U0-G4   |         |
|                   | FTA          |     | 35399            | 134      | B4-U0-G4   | 38450            | 134      | B4-U0-G4   | 38450            | 134      | B4-U0-G4   |         |
|                   | AM           |     | 36524            | 135      | B4-U0-G3   | 38916            | 135      | B4-U0-G3   | 38916            | 135      | B4-U0-G3   |         |
|                   | LC/RC        |     | 37561            | 147      | B3-U0-G5   | 37561            | 147      | B3-U0-G5   | 36727            | 144      | B3-U0-G5   |         |
|                   | 2            |     | 41035            | 131      | B5-U0-G4   | 42602            | 136      | B5-U0-G4   | 42542            | 135      | B5-U0-G4   | 314     |
| 42L               | 3            | 70  | 42493            | 135      | B4-U0-G5   | 44115            | 140      | B4-U0-G5   | 44053            | 140      | B4-U0-G5   |         |
|                   | 4            |     | 41453            | 132      | B4-U0-G5   | 43497            | 138      | B4-U0-G5   | 43254            | 138      | B4-U0-G5   |         |
|                   | 5W           |     | 41349            | 132      | B5-U0-G4   | 42927            | 134      | B5-U0-G4   | 42866            | 137      | B5-U0-G4   |         |
|                   | FT           |     | 42481            | 135      | B4-U0-G4   | 44103            | 140      | B4-U0-G4   | 44040            | 140      | B4-U0-G4   |         |
|                   | FTA          |     | 41083            | 131      | B4-U0-G4   | 42652            | 136      | B5-U0-G4   | 42591            | 136      | B5-U0-G4   |         |
|                   | AM           |     | 42389            | 135      | B4-U0-G3   | 44007            | 140      | B4-U0-G3   | 43944            | 140      | B4-U0-G3   |         |
|                   | LC/RC        |     | 43980            | 140      | B3-U0-G5   | 43980            | 140      | B3-U0-G5   | 43004            | 137      | B3-U0-G5   |         |
|                   | 2            | 70  | 45133            | 123      | B5-U0-G4   | 46856            | 128      | B5-U0-G4   | 46789            | 128      | B5-U0-G4   | 401     |
|                   | 3            |     | 46737            | 128      | B4-U0-G5   | 48521            | 133      | B4-U0-G5   | 48452            | 132      | B4-U0-G5   |         |
|                   | 4            |     | 46006            | 126      | B4-U0-G5   | 48275            | 132      | B4-U0-G5   | 48005            | 131      | B4-U0-G5   |         |
|                   | 5W           |     | 45478            | 124      | B5-U0-G4   | 47214            | 129      | B5-U0-G4   | 47147            | 129      | B5-U0-G4   |         |
|                   | FT           |     | 46723            | 128      | B4-U0-G5   | 48507            | 133      | B4-U0-G5   | 48438            | 132      | B4-U0-G5   |         |
|                   | FTA          |     | 45187            | 123      | B5-U0-G4   | 46912            | 128      | B5-U0-G4   | 46845            | 128      | B5-U0-G4   |         |
|                   | AM           |     | 4662             | 127      | B4-U0-G3   | 48402            | 132      | B4-U0-G3   | 48333            | 132      | B4-U0-G3   |         |
|                   | LC/RC        |     | 48811            | 133      | B4-U0-G5   | 48811            | 133      | B4-U0-G5   | 47728            | 130      | B4-U0-G5   |         |
| 55L               | 2            | 70  | 50179            | 115      | B5-U0-G4   | 52095            | 119      | B5-U0-G4   | 52021            | 119      | B5-U0-G4   | 438     |
|                   | 3            |     | 51963            | 119      | B4-U0-G5   | 53947            | 123      | B4-U0-G5   | 53870            | 123      | B4-U0-G5   |         |
|                   | 4            |     | 51635            | 119      | B4-U0-G5   | 54181            | 125      | B4-U0-G5   | 53878            | 124      | B4-U0-G5   |         |
|                   | 5W           |     | 50563            | 115      | B5-U0-G4   | 52493            | 120      | B5-U0-G4   | 52418            | 120      | B5-U0-G4   |         |
|                   | FT           |     | 50539            | 115      | B4-U0-G5   | 52468            | 120      | B4-U0-G5   | 52394            | 120      | B4-U0-G5   |         |
|                   | FTA          |     | 50239            | 115      | B5-U0-G4   | 52157            | 119      | B5-U0-G4   | 52082            | 119      | B5-U0-G4   |         |
|                   | AM           |     | 52223            | 119      | B4-U0-G3   | 54216            | 124      | B4-U0-G3   | 54139            | 124      | B4-U0-G3   |         |
|                   | LC/RC        |     | 54113            | 124      | B4-U0-G5   | 54113            | 124      | B4-U0-G5   | 52912            | 121      | B4-U0-G5   |         |

\*LEDs are frequently updated therefore values are nominal.



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SPEC.1020.B.0422

# Mirada Medium Outdoor LED Area Light

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Type: \_\_\_\_\_

## PERFORMANCE (CONT.)

| ELECTRICAL DATA (AMPS)* |      |      |      |      |      |      |
|-------------------------|------|------|------|------|------|------|
| Lumens                  | 120V | 208V | 240V | 277V | 347V | 480V |
| 9L                      | 0.52 | 0.30 | 0.26 | 0.22 | 0.18 | 0.13 |
| 12L                     | 0.71 | 0.41 | 0.35 | 0.31 | 0.24 | 0.18 |
| 18L                     | 1.13 | 0.65 | 0.56 | 0.49 | 0.39 | 0.28 |
| 24L                     | 1.33 | 0.77 | 0.67 | 0.58 | 0.46 | 0.33 |
| 30L                     | 1.78 | 1.02 | 0.89 | 0.77 | 0.61 | 0.44 |
| 36L                     | 2.12 | 1.22 | 1.06 | 0.92 | 0.73 | 0.53 |
| 42L                     | 2.62 | 1.51 | 1.31 | 1.13 | 0.90 | 0.65 |
| 48L                     | 3.05 | 1.76 | 1.53 | 1.32 | 1.05 | 0.76 |
| 55L                     | 3.65 | 2.11 | 1.83 | 1.58 | 1.26 | 0.91 |

| RECOMMENDED LUMEN MAINTENANCE <sup>1</sup> (0-25°C) |                      |                  |                   |                   |                    |
|---|----------------------|------------------|-------------------|-------------------|--------------------|
| Ambient   | Initial <sup>2</sup> | 25h <sup>2</sup> | 50hr <sup>2</sup> | 75hr <sup>2</sup> | 100hr <sup>2</sup> |
| 9L - 18L  | 100%                 | 97%              | 93%               | 90%               | 86%                |
| 24L - 48L   | 100%                 | 95%              | 89%               | 84%               | 79%                |
| 55L   | 100%                 | 91%              | 82%               | 74%               | 67%                |

| RECOMMENDED LUMEN MAINTENANCE <sup>1</sup> (40°C) |                      |                  |                   |                   |                    |
|---|----------------------|------------------|-------------------|-------------------|--------------------|
| Ambient   | Initial <sup>2</sup> | 25h <sup>2</sup> | 50hr <sup>2</sup> | 75hr <sup>2</sup> | 100hr <sup>2</sup> |
| 9L - 18L  | 100%                 | 97%              | 92%               | 88%               | 84%                |
| 24L - 48L   | 100%                 | 94%              | 87%               | 80%               | 74%                |

| RECOMMENDED LUMEN MAINTENANCE <sup>1</sup> (50°C) |                      |                  |                   |                   |                    |
|---|----------------------|------------------|-------------------|-------------------|--------------------|
| Ambient   | Initial <sup>2</sup> | 25h <sup>2</sup> | 50hr <sup>2</sup> | 75hr <sup>2</sup> | 100hr <sup>2</sup> |
| 9L - 18L C  | 100%                 | 96%              | 91%               | 87%               | 85%                |

\*Electrical data at 25°C (77°F). Actual wattage may differ by +/-10%

1. Lumen maintenance values at 25C are calculated per TM-21 based on LM-80 data and in-situ testing.
2. In accordance with IESNA TM-21-11, Projected Values represent interpolated value based on time durations that are within six times the IESNA LM-80-08 total test duration for the device under testing.
3. In accordance with IESNA TM-21-11, Calculated Values represent time durations that exceed six times the IESNA LM-80-08 total test duration for the device under testing.

| DELIVERED LUMENS* |              |                                       |          |            |         |
|-------------------|--------------|---------------------------------------|----------|------------|---------|
| Lumen Package     | Distribution | Phosphor Converted Amber (Peak 610mm) |          |            | Wattage |
|                   |              | Delivered Lumens                      | Efficacy | BUG Rating |         |
| 9L                | 2            | 5848                                  | 80       | B2-U0-G2   | 74      |
|                   | 3            | 6018                                  | 82       | B1-U0-G2   |         |
|                   | 5W           | 5471                                  | 74       | B3-U0-G1   |         |
|                   | FT           | 5801                                  | 79       | B1-U0-G2   |         |
|                   | FTA          | 5924                                  | 81       | B1-U0-G1   |         |
|                   | AM           | 5995                                  | 81       | B1-U0-G1   |         |
| 12L               | 2            | 7530                                  | 74       | B2-U0-G2   | 102     |
|                   | 3            | 7749                                  | 76       | B1-U0-G2   |         |
|                   | 5W           | 7045                                  | 69       | B3-U0-G2   |         |
|                   | FT           | 7470                                  | 73       | B2-U0-G2   |         |
|                   | FTA          | 7628                                  | 75       | B2-U0-G2   |         |
|                   | AM           | 7720                                  | 76       | B1-U0-G1   |         |
| 18L               | 2            | 9311                                  | 69       | B2-U0-G2   | 135     |
|                   | 3            | 9582                                  | 71       | B2-U0-G2   |         |
|                   | 5W           | 8712                                  | 65       | B3-U0-G2   |         |
|                   | FT           | 9237                                  | 68       | B2-U0-G2   |         |
|                   | FTA          | 9433                                  | 70       | B2-U0-G2   |         |
|                   | AM           | 9546                                  | 71       | B2-U0-G1   |         |
| 24L               | 2            | 10955                                 | 63       | B2-U0-G2   | 175     |
|                   | 3            | 11273                                 | 64       | B2-U0-G2   |         |
|                   | 5W           | 10249                                 | 59       | B3-U0-G2   |         |
|                   | FT           | 10867                                 | 62       | B2-U0-G2   |         |
|                   | FTA          | 11097                                 | 63       | B2-U0-G2   |         |
|                   | AM           | 11230                                 | 64       | B2-U0-G1   |         |

| ELECTRICAL DATA - PHOSPHOR CONVERTED AMBER (AMPS)* |      |      |      |      |      |
|--|------|------|------|------|------|
| Lumens   | 120V | 208V | 240V | 277V | 347V |
| 9L   | 0.62 | 0.36 | 0.31 | 0.27 | 0.21 |
| 12L  | 0.85 | 0.50 | 0.43 | 0.38 | 0.30 |
| 18L  | 1.13 | 0.65 | 0.56 | 0.49 | 0.39 |
| 24L  | 1.47 | 0.85 | 0.73 | 0.64 | 0.51 |

\*LEDs are frequently updated therefore values are nominal.



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SPEC.1020.B.0422

# Mirada Medium Outdoor LED Area Light

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Type: \_\_\_\_\_

## PHOTOMETRICS

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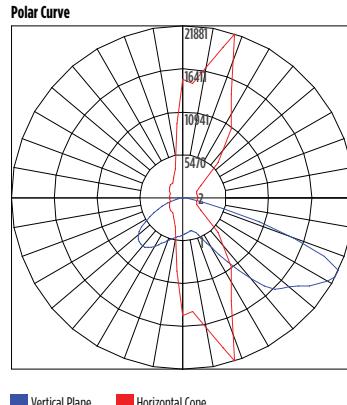
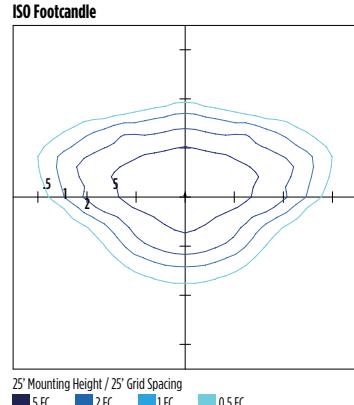
Luminaire photometry has been conducted by a NVLAP accredited testing laboratory in accordance with IESNA LM-79-08. As specified by IESNA LM-79-08 the entire luminaire is tested as the source resulting in a luminaire efficiency of 100%.

See the individual product page on <https://www.lsicorp.com/> for detailed photometric data.

### MRM-LED-30L-SIL-2-40-70CRI

| Luminaire Data      |                     |
|---------------------|---------------------|
| Type 2 Distribution |                     |
| Description         | 4000 Kelvin, 70 CRI |
| Delivered Lumens    | 32,416              |
| Watts               | 232                 |
| Efficacy            | 140                 |
| IES Type            | Type II - Short     |
| BUG Rating          | B4-U0-G3            |

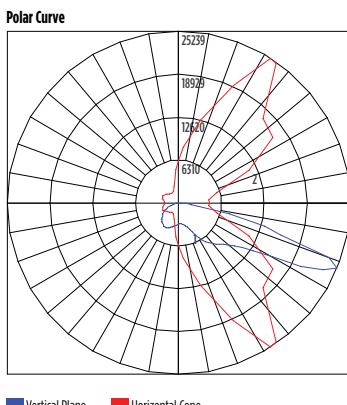
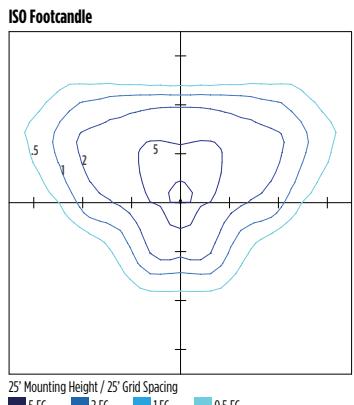
| Zonal Lumen Summary |        |             |
|---------------------|--------|-------------|
| Zone                | Lumens | % Luminaire |
| Low (0-30°)         | 4796   | 15%         |
| Medium (30-60°)     | 19811  | 61%         |
| High (60-80°)       | 7474   | 23%         |
| Very High (80-90°)  | 335    | 1%          |
| Uplight (90-180°)   | 0      | 0%          |
| Total Flux          | 32416  | 100%        |



### MRM-LED-30L-SIL-3-40-70CRI

| Luminaire Data      |                     |
|---------------------|---------------------|
| Type 3 Distribution |                     |
| Description         | 4000 Kelvin, 70 CRI |
| Delivered Lumens    | 32,656              |
| Watts               | 232                 |
| Efficacy            | 141                 |
| IES Type            | Type III - Short    |
| BUG Rating          | B3-U0-G4            |

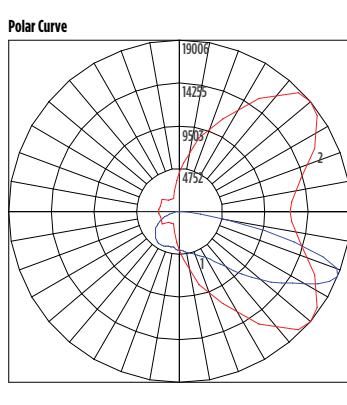
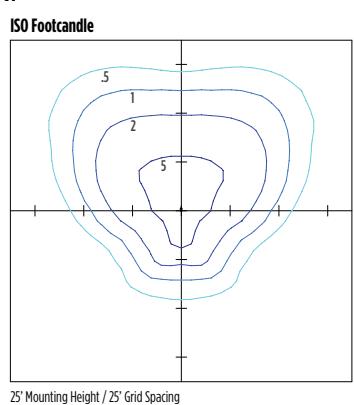
| Zonal Lumen Summary |        |             |
|---------------------|--------|-------------|
| Zone                | Lumens | % Luminaire |
| Low (0-30°)         | 3385   | 10%         |
| Medium (30-60°)     | 16250  | 50%         |
| High (60-80°)       | 12430  | 38%         |
| Very High (80-90°)  | 591    | 2%          |
| Uplight (90-180°)   | 0      | 0%          |
| Total Flux          | 32656  | 100%        |



### MRM-LED-30L-SIL-FT-40-70CRI

| Luminaire Data       |                     |
|----------------------|---------------------|
| Type FT Distribution |                     |
| Description          | 4000 Kelvin, 70 CRI |
| Delivered Lumens     | 32,424              |
| Watts                | 232                 |
| Efficacy             | 140                 |
| IES Type             | Type IV - Short     |
| BUG Rating           | B3-U0-G4            |

| Zonal Lumen Summary |        |             |
|---------------------|--------|-------------|
| Zone                | Lumens | % Luminaire |
| Low (0-30°)         | 3952   | 12%         |
| Medium (30-60°)     | 15505  | 48%         |
| High (60-80°)       | 12279  | 38%         |
| Very High (80-90°)  | 688    | 2%          |
| Uplight (90-180°)   | 0      | 0%          |
| Total Flux          | 32424  | 100%        |



# Mirada Medium Outdoor LED Area Light

Type : \_\_\_\_\_

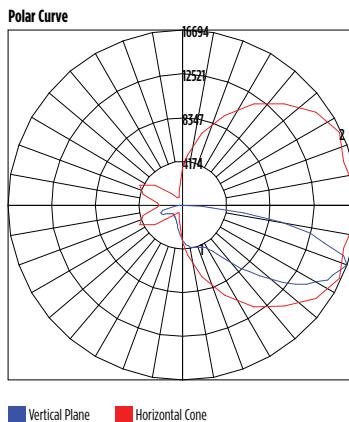
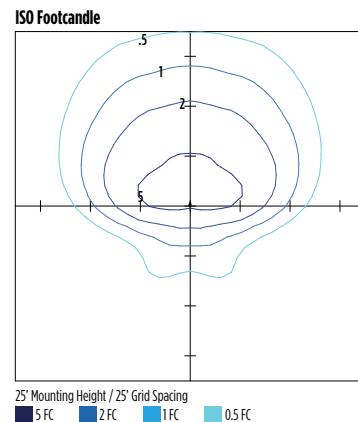
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## PHOTOMETRICS (CONT)

### MRM-LED-30L-SIL-4-40-70CRI

| Luminaire Data      |                      |
|---------------------|----------------------|
| Type 4 Distribution |                      |
| Description         | 4000 Kelvin, 70 CRI  |
| Delivered Lumens    | 32,141               |
| Watts               | 213                  |
| Efficacy            | 151                  |
| IES Type            | Type IV - Very Short |
| BUG Rating          | B3-U0-G5             |

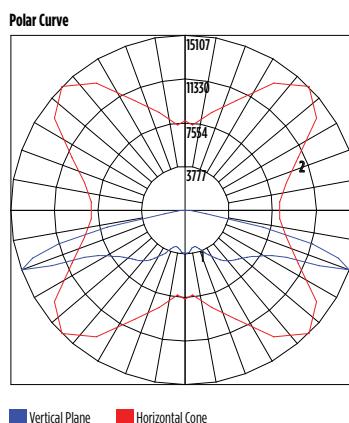
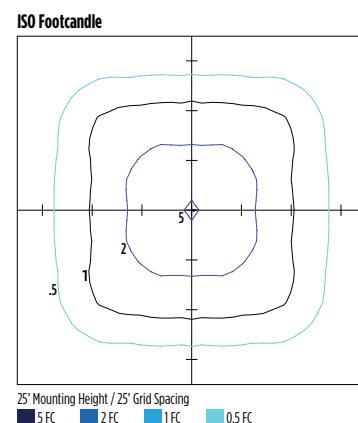
| Zonal Lumen Summary |        |             |
|---------------------|--------|-------------|
| Zone                | Lumens | % Luminaire |
| Low (0-30°)         | 3119   | 10%         |
| Medium (30-60°)     | 13569  | 42%         |
| High (60-80°)       | 13649  | 42%         |
| Very High (80-90°)  | 1804   | 6%          |
| Uplight (90-180°)   | 0      | 0%          |
| Total Flux          | 32141  | 100%        |



### MRM-LED-30L-SIL-5W-40-70CRI

| Luminaire Data       |                     |
|----------------------|---------------------|
| Type 5W Distribution |                     |
| Description          | 4000 Kelvin, 70 CRI |
| Delivered Lumens     | 31,267              |
| Watts                | 232                 |
| Efficacy             | 135                 |
| IES Type             | Type VS - Short     |
| BUG Rating           | B5-U0-G3            |

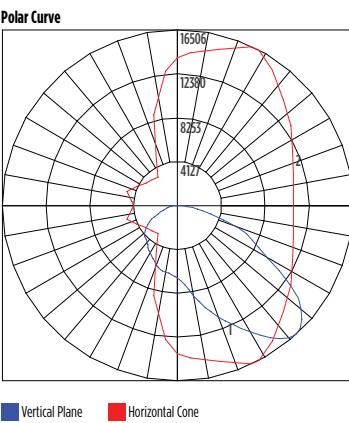
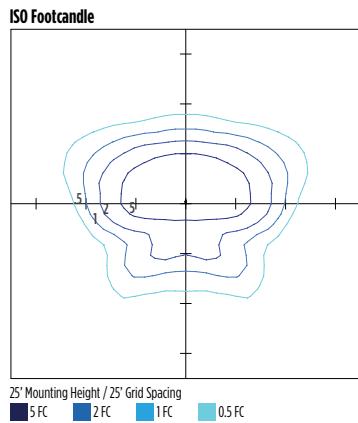
| Zonal Lumen Summary |        |             |
|---------------------|--------|-------------|
| Zone                | Lumens | % Luminaire |
| Low (0-30°)         | 3138   | 10%         |
| Medium (30-60°)     | 13193  | 42%         |
| High (60-80°)       | 14641  | 47%         |
| Very High (80-90°)  | 296    | 1%          |
| Uplight (90-180°)   | 0      | 0%          |
| Total Flux          | 31267  | 100%        |



### MRM-LED-30L-SIL-FTA-40-70CRI

| Luminaire Data        |                     |
|-----------------------|---------------------|
| Type FTA Distribution |                     |
| Description           | 4000 Kelvin, 70 CRI |
| Delivered Lumens      | 32,566              |
| Watts                 | 232                 |
| Efficacy              | 140                 |
| IES Type              | Type VS - Short     |
| BUG Rating            | B4-U0-G3            |

| Zonal Lumen Summary |        |             |
|---------------------|--------|-------------|
| Zone                | Lumens | % Luminaire |
| Low (0-30°)         | 6986   | 21%         |
| Medium (30-60°)     | 19172  | 59%         |
| High (60-80°)       | 5875   | 18%         |
| Very High (80-90°)  | 534    | 2%          |
| Uplight (90-180°)   | 0      | 0%          |
| Total Flux          | 32566  | 100%        |



# Mirada Medium Outdoor LED Area Light

Type: \_\_\_\_\_

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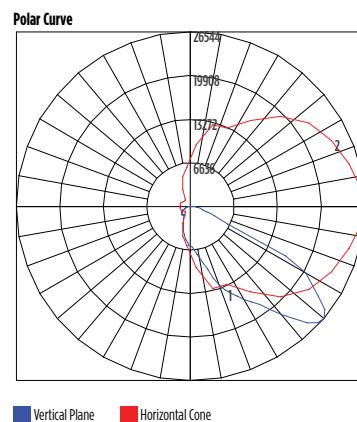
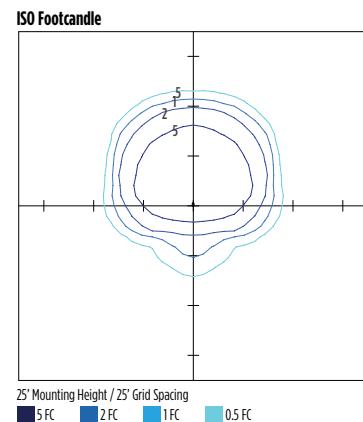
## PHOTOMETRICS (CONT)

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### MRM-LED-30L-SIL-AM-40-70CRI

| Luminaire Data       |                       |
|----------------------|-----------------------|
| Type AM Distribution |                       |
| Description          | 4000 Kelvin, 70 CRI   |
| Delivered Lumens     | 32,960                |
| Watts                | 232                   |
| Efficacy             | 142                   |
| IES Type             | Type III - Very Short |
| BUG Rating           | B3-U0-G3              |

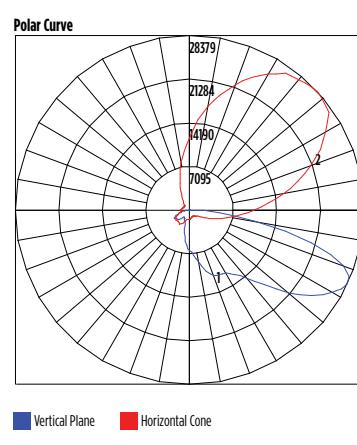
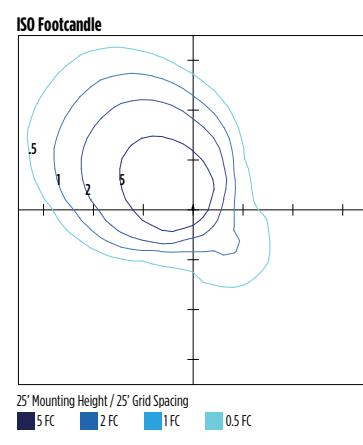
| Zonal Lumen Summary |        |             |
|---------------------|--------|-------------|
| Zone                | Lumens | % Luminaire |
| Low (0-30°)         | 6363   | 19%         |
| Medium (30-60°)     | 22026  | 67%         |
| High (60-80°)       | 4192   | 13%         |
| Very High (80-90°)  | 379    | 1%          |
| Uplight (90-180°)   | 0      | 0%          |
| Total Flux          | 32960  | 100%        |



### MRM-LED-30L-SIL-LC-40-70CRI

| Luminaire Data           |                     |
|--------------------------|---------------------|
| Left Corner Distribution |                     |
| Description              | 4000 Kelvin, 70 CRI |
| Delivered Lumens         | 32,498              |
| Watts                    | 213                 |
| Efficacy                 | 153                 |
| IES Type                 | N/A                 |
| BUG Rating               | B3-U0-G5            |

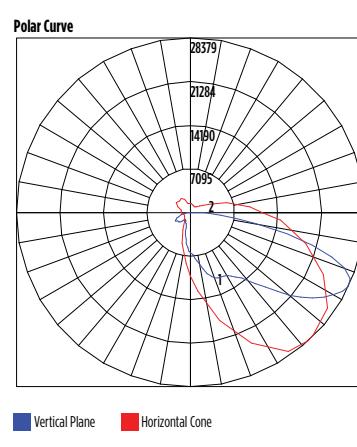
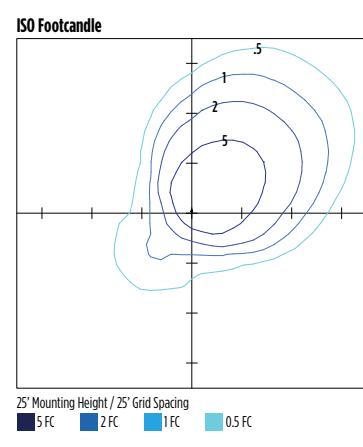
| Zonal Lumen Summary |        |             |
|---------------------|--------|-------------|
| Zone                | Lumens | % Luminaire |
| Low (0-30°)         | 5083   | 16%         |
| Medium (30-60°)     | 14808  | 46%         |
| High (60-80°)       | 11603  | 36%         |
| Very High (80-90°)  | 1005   | 3%          |
| Uplight (90-180°)   | 0      | 0%          |
| Total Flux          | 32498  | 100%        |



### MRM-LED-30L-SIL-RC-40-70CRI

| Luminaire Data            |                     |
|---------------------------|---------------------|
| Right Corner Distribution |                     |
| Description               | 4000 Kelvin, 70 CRI |
| Delivered Lumens          | 32,498              |
| Watts                     | 213                 |
| Efficacy                  | 153                 |
| IES Type                  | N/A                 |
| BUG Rating                | B3-U0-G5            |

| Zonal Lumen Summary |        |             |
|---------------------|--------|-------------|
| Zone                | Lumens | % Luminaire |
| Low (0-30°)         | 5083   | 16%         |
| Medium (30-60°)     | 14808  | 46%         |
| High (60-80°)       | 11603  | 36%         |
| Very High (80-90°)  | 1005   | 3%          |
| Uplight (90-180°)   | 0      | 0%          |
| Total Flux          | 32498  | 100%        |



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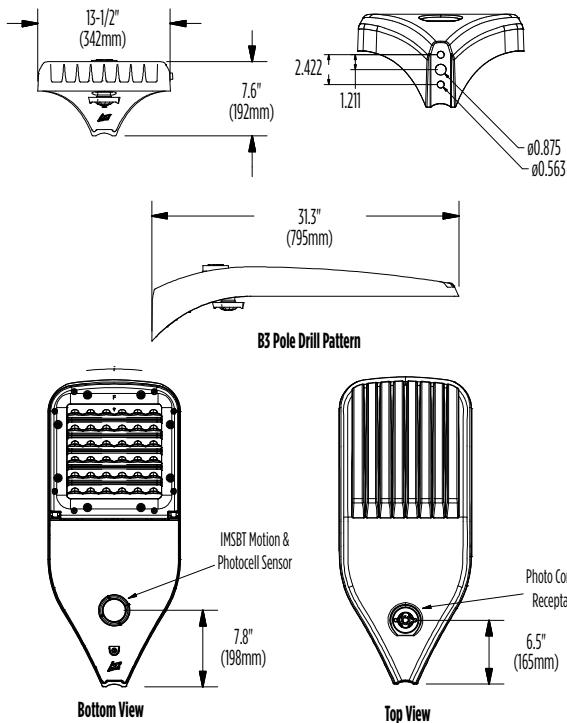
SPEC.1020.B.0422

# Mirada Medium Outdoor LED Area Light

Type: \_\_\_\_\_

 **Have questions?** Call us at (800) 436-7800

## PRODUCT DIMENSIONS



### Luminaire EPA Chart

| Tilt Degree   | 0°  | 15° | 30° | 45° |
|---|-----|-----|-----|-----|
|  <b>Single</b> | 0.5 | 1.0 | 1.5 | 1.9 |
|  <b>D180°</b>  | 1.0 | 1.5 | 1.5 | 1.9 |
|  <b>D90°</b>   | 0.8 | 1.8 | 1.9 | 2.3 |
|  <b>T90°</b>   | 1.0 | 4.0 | 2.5 | 2.8 |
|  <b>TN120°</b> | 1.0 | 2.9 | 3.3 | 3.9 |
|  <b>Q90°</b>   | 1.0 | 4.0 | 2.5 | 2.8 |



# Mirada Medium Outdoor LED Area Light

Type: \_\_\_\_\_

 **Have questions?** Call us at (800) 436-7800

## CONTROLS

### Integral Bluetooth™ Motion and Photocell Sensor (IMSBTxL)

Slim low profile sensor provides multi-level control based on motion and/or daylight. Sensor controls 0-10 VDC LED drivers and is IP66 rated for cold and wet locations (-40°F to 167°F). Two unique PIR lenses are available and used based on fixture mounting height. All control parameters are adjustable via an iOS or Android App capable of storing and transmitting sensor profiles.

[Click here to learn more details about IMSBT](#)



LEVITON App



Apple



Android

### AirLink Blue (ALBCSx)

Wireless Bluetooth Mesh Outdoor Lighting Control System that provides energy savings, code compliance and enhanced safety/security for parking lots and parking garages. Three key components; Bluetooth wireless radio/sensor controller, Time Keeper and an iOS App. Capable of grouping multiple fixtures and sensors as well as scheduling time-based events by zone. Radio/Sensor Controller is factory integrated into Area/Site, Wall Mounted, Parking Garage and Canopy luminaires.

[Click here to learn more details about AirLink Blue](#)



AirLink Blue App



Apple

## Sensor Sequence of Operations

| Standard Programming | On Event | Off Event | On Light Level | Dim Light Level | Daylight Harvesting  | Delay To Off | Sensitivity |
|----------------------|----------|-----------|----------------|-----------------|----------------------|--------------|-------------|
| OMSBTxL/IMSBTxL      | Motion   | No Motion | 100%           | N/A             | On; Auto Calibration | 20 minutes   | High        |
| OMS                  | Motion   | No Motion | N/A            | N/A             | N/A                  | 30 seconds   | Auto        |

| Operation       | Description  |
|-----------------|--|
| On Event        | Trigger that activates lights to turn on; either automatic via motion detected or manually activated via push of button.   |
| Off Event       | Trigger that activates lights to turn off; either automatic via no motion detected or manually activated via push of button.   |
| On Light Level  | The light level that the fixtures will turn on to when ON EVENT occurs.  |
| Dim Light Level | The light level that the fixtures will dim down to when no motion is detected.   |
| Delay to Dim    | The amount of time after which no motion is detected that the fixtures will be triggered to dim down. This sequence is optional, and sensor can be programmed to only trigger the fixture to turn off by entering 100% in this field.  |
| Delay to Off    | The amount of time after which no motion is detected that the fixtures will be triggered to turn off. If delay to dim is part of the programmed functionality, this is the amount of time after which no motion is detected after the fixture have already dimmed down.  |
| Sensitivity     | The sensitivity can be set to high, medium, low, or auto where applicable. High will detect smaller, simple motions. Low will only detect larger more complex motions. Auto temperature calibration adjusts the PIR sensitivity as ambient temperature rises to increase detection of heat movement through the field of view. |



# Mirada Medium (MRM)

## Outdoor LED Area Light



IP66 IK08



| OVERVIEW             |                             |
|----------------------|-----------------------------|
| Lumen Package        | 7,000 - 55,000              |
| Wattage Range        | 48 - 438                    |
| Efficacy Range (LPW) | 115 - 162                   |
| Weight lbs(kg)       | 30 (13.6)                   |
| Control Options      | IMSBT, ALB, ALS, 7-Pin, PCI |

### QUICK LINKS

[Ordering Guide](#)[Performance](#)[Photometrics](#)[Dimensions](#)

## FEATURES & SPECIFICATIONS

### Construction

- Rugged die-cast aluminum housing contains factory prewired driver and optical unit. Cast aluminum wiring access door located underneath.
- Designed to mount to square or round poles.
- Fixtures are finished with LSI's DuraGrip® polyester powder coat finishing process. The DuraGrip finish withstands extreme weather changes without cracking or peeling. Other standard LSI finishes available. Consult factory.
- Shipping weight: 37 lbs in carton.

### Optical System

- State-of-the-Art one piece silicone optic sheet delivers industry leading optical control with an integrated gasket to provide IP66 rated sealed optical chamber in 1 component.
- Proprietary silicone refractor optics provide exceptional coverage and uniformity in IES Types 2, 3, 4, 5W, FT, FTA, AM, and LC/RC.
- Silicone optical material does not yellow or crack with age and provides a typical light transmittance of 93-95%.
- Zero uplight.
- Available in 5000K, 4000K, and 3000K color temperatures per ANSI C78.377. Also Available in Phosphor Converted Amber with Peak intensity at 610nm.
- Minimum CRI of 70.
- Integral louver (IL) and integral half louver (IH) options available for enhanced backlight control.

### Electrical

- High-performance programmable driver features over-voltage, under-voltage, short-circuit and over temperature protection. Custom lumen and wattage packages available.
- 0-10V dimming (10% - 100%) standard.
- Standard Universal Voltage (120-277 Vac) Input 50/60 Hz or optional High Voltage (347-480 Vac).
- L80 Calculated Life: >100k Hours (See Lumen Maintenance chart)
- Total harmonic distortion: <20%
- Operating temperature: -40°C to +50°C (-40°F to +122°F). 42L and 48L lumen packages rated to +40°C. 55L lumen package rate to +35°C.
- Power factor: >.90
- Input power stays constant over life.
- Field replaceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).
- High-efficacy LEDs mounted to metal-core circuit board to maximize heat dissipation
- Components are fully encased in potting material for moisture resistance. Driver complies with FCC standards. Driver and key electronic components can easily be accessed.

### Controls

- Optional integral passive infrared Bluetooth™ motion. Fixtures operate independently and can be commissioned via iOS or Android configuration app
- LSI's AirLink™ wireless control system options reduce energy and maintenance

costs while optimizing light quality 24/7. (see controls section for more details).

### Installation

- Designed to mount to square or round poles.
- A single fastener secures the hinged door, underneath the housing and provides quick & easy access to the electrical compartment.
- Included terminal block accepts up to 12 ga. wire.
- Utilizes LSI's traditional 3" drill pattern B3 for easy fastening of LSI products.

### Warranty

- LSI LED Fixtures carry a 5-year warranty.

### Listings

- Listed to UL 1598 and UL 8750.
- Meets Buy American Act requirements.
- IDA compliant; with 3000K color temperature selection.
- Title 24 Compliant; see local ordinance for qualification information.
- RoHS compliant
- Suitable for wet Locations.
- IP66 rated Luminaire per IEC 60598.
- 3G rated for ANSI C136.31 high vibration applications are qualified.
- DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at [www.designlights.org/QPL](http://www.designlights.org/QPL) to confirm which versions are qualified.
- Patented Silicone Optics (US Patent NO. 10,816,165 B2)
- IK08 rated luminaire per IEC 66262 mechanical impact code



# Mirada Medium Outdoor LED Area Light

 **Have questions?** Call us at (800) 436-7800

Type : \_\_\_\_\_

## ORDERING GUIDE

[Back to Quick Links](#)

**TYPICAL ORDER EXAMPLE: MRM LED 36L SIL FTA UNV DIM 50 70CRI ALSC04 BRZ IL**

| Prefix                         | Light Source | Lumen Package   | Lens           | Distribution   | Orientation <sup>2</sup>  | Voltage  | Driver                      |
|--------------------------------|--------------|---|----------------|--|---|--|-----------------------------|
| MRM - Mirada Medium Area Light | LED          | 7L - 7,000 lms, 48W<br>9L - 9,000 lms, 62W<br>12L - 12,000 lms, 85W<br>18L - 18,000 lms, 135W<br>24L - 24,000 lms, 176W<br>30L - 30,000 lms, 232W<br>36L - 36,000 lms, 288W<br>42L - 42,000 lms, 314W<br>48L - 48,000 lms, 401W<br>55L - 55,000 lms, 438W<br>Custom Lumen Packages <sup>1</sup> | SIL - Silicone | 2 - Type 2<br>3 - Type 3<br>4 - Type 4<br>5W - Type 5 Wide<br>FT - Forward Throw<br>FTA - Forward Throw Automotive<br>AM - Automotive Merchandise<br>LC - Left Corner<br>RC - Right Corner | (blank) - standard<br>L - Optics rotated left 90°<br>R - Optics rotated right 90° | UNV - Universal Voltage (120-277V)<br>HV - High Voltage (347-480V) | DIM - 0-10V Dimming (0-10%) |

| Color Temp   | Color Rendering | Finish   | Options  |
|--|-----------------|--|--|
| 50 - 5,000 CCT<br>40 - 4,000 CCT<br>30 - 3,000 CCT<br>AMB - Phosphor Converted Amber <sup>12</sup> | 70CRI - 70 CRI  | BLK - Black<br>BRZ - Dark Bronze<br>GMG - Gun Metal Gray<br>GPT - Graphite | MSV - Metallic Silver<br>PLP - Platinum Plus<br>SVG - Satin Verde Green<br>WHT - White<br>(Blank) - None<br>IH - Integral Half Louver (Moderate Spill Light Cutoff) <sup>2</sup><br>IL - Integral Louver (Sharp Spill Light Cutoff) <sup>2</sup> |

### Controls (Choose One)

(Blank) - None

#### Wireless Controls System

ALSC - AirLink Synapse Control System<sup>13</sup>

ALSC02 - AirLink Synapse Control System with 12-20' Motion Sensor<sup>13</sup>

ALSC04 - AirLink Synapse Control System with 20-40' Motion Sensor<sup>13</sup>

ALBCS1 - AirLink Blue Wireless Motion & Photo Sensor Controller (8-24' mounting height)<sup>5</sup>

ALBCS2 - AirLink Blue Wireless Motion & Photo Sensor Controller (25-40' mounting height)<sup>5</sup>

#### Stand-Alone Controls

EXT - 0-10v Dimming leads extended to housing exterior

CR7P - 7 Pin Control Receptacle ANSI C136.41<sup>6</sup>

IMSBT1 - Integral Bluetooth™ Motion and Photocell Sensor (8-24' MH)<sup>5</sup>

IMSBT2 - Integral Bluetooth™ Motion and Photocell Sensor (25-40' MH)<sup>5</sup>

#### Button Type Photocells

PC1120 - 120V

PC1208-277 - 208 -277V

PC1347 - 347V



**Need more information?**

Click here for our glossary

**Have additional questions?**

Call us at (800) 436-7800



## ACCESSORY ORDERING INFORMATION<sup>7</sup>

| CONTROLS ACCESSORIES   |                |
|--|----------------|
| Description  | Order Number   |
| PC120 Photocell for use with CR7P option (120V) <sup>8</sup>                 | <b>122514</b>  |
| PC208-277 Photocell for use with CR7P option (208V, 240V, 277V) <sup>8</sup> | <b>122515</b>  |
| Twist Lock Photocell (347V) for use with CR7P <sup>8</sup>                   | <b>122516</b>  |
| Twist Lock Photocell (480V) for use with CR7P <sup>8</sup>                   | <b>1225180</b> |
| AirLink 5 Pin Twist Lock Controller (120-277V Only) <sup>8</sup>             | <b>661409</b>  |
| AirLink 7 Pin Twist Lock Controller (120-277V Only) <sup>8</sup>             | <b>661410</b>  |
| AirLink 7 Pin Twist Lock Controller (347-480V)                               | <b>679948</b>  |
| Shorting Cap for use with CR7P   | <b>149328</b>  |

| FUSING OPTIONS <sup>11</sup> |  |
|------------------------------|--|
| Single Fusing (120V)         |  |
| Single Fusing (277V)         |  |
| Double Fusing (208V, 240V)   |  |
| Double Fusing (480V)         |  |
| Double Fusing (347V)         |  |

[See Fusing Accessory Guide](#)

| SHIELDING OPTIONS |  |
|-------------------|--|
| Mirada Small      |  |
| Mirada Medium     |  |
| Mirada Large      |  |
| Zone Medium       |  |
| Zone Large        |  |
| Slice Medium      |  |

[See Shielding Guide](#)

1. Custom lumen and wattage packages available, consult factory. Values are within industry standard tolerances but not DLC listed.
2. Not available with 5W distribution
3. Consult Factory for availability.
4. Not available in HV.
5. Motion sensors are field configurable via an app that can be downloaded from your smartphone's native app store. See controls section for more details.
6. Control device or shorting cap must be ordered separately. See Accessory Ordering Information.
7. Accessories are shipped separately and field installed.
8. Factory installed CR7P option required. See Options.
9. "CLR" denotes finish. See Finish options.
10. Only available with ALSC/ALSC04 control options.
11. Fusing must be located in hand hole of pole. See [Fusing Accessory Guide](#) for compatibility.
12. Only available in 9L, 12L, 18L and 24L Lumen Packages. Consult factory for lead time and availability.
13. Not available with 55L Lumen Package.

# Mirada Medium Outdoor LED Area Light

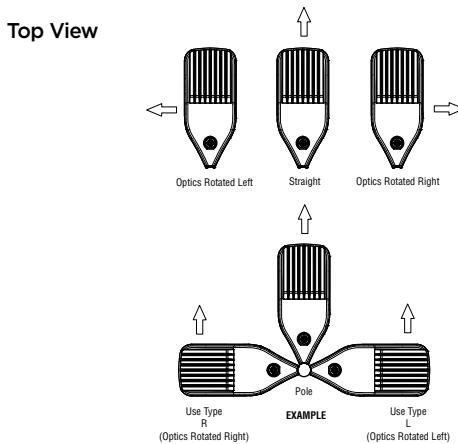
Type: \_\_\_\_\_

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## ACCESSORIES

| MOUNTING ACCESSORIES  |  |   | SHIELDING, POLES & MISC. ACCESSORIES   |   |
|-----------------------|--|---|--|---|
| Side Arm              | <b>Universal Mounting Bracket</b><br>Mounts to ≥ 3" square or round (tapered/straight) poles with (2) mounting hole spaces between 3.5" to 5"<br><br>Part Number: BKA UMB CLR      |    | <b>Integral Louver</b><br>Field Install Integral Louver provides maximum backlight control by shielding each individual row of LEDs<br><br>Part Number: 690981   |    |
|                       | <b>Quick Mount Plate</b><br>True one person installation to existing/new construction poles with hole spaces between 2.4 to 4.6"<br><br>Part Number: BKS PQM B3B5 XX CLR           |    | <b>Integral Half Louver</b><br>Field Install Integral Half Louver provides great backlight control without impacting front side distribution.<br><br>Part Number: 743415   |    |
|                       | <b>15° Tilt Quick Mount Plate</b><br>True one person installation to existing/new construction poles with hole spaces between 2.4 to 4.6"<br><br>Part Number: BKS PQ15 B3B5 XX CLR |    | <b>External Shield</b><br>External shield blocks view of light source from any side of luminaire, additional shielding configurations available<br><br>Part Number: 783607BLK (3") / 776538BLK (6")  |    |
| Tenon / Slipfitter    | <b>Adjustable Slipfitter</b><br>Mounts onto a 2" (51mm) IP, 2.375" (60mm) O.D. tenon and provides 180° of tilt (max 45° above horizontal)<br><br>Part Number: BKA ASF CLR          |    | <b>Square Poles</b><br>14 - 39' steel and aluminum poles in 4", 5" and 6" sizes for retrofit and new construction<br><br>Part Number: 4SQ/5SQ/6SQ  |    |
|                       | <b>Square Tenon Top</b><br>Mounts onto a 2" (51mm) IP, 2.375" (60mm) O.D. tenon and allows for mounting up to 4 luminaires<br><br>Part Number: BKA XNM *                           |    | <b>Round Poles</b><br>10 - 30' steel and aluminum poles in 4" and 5" sizes for retrofit and new construction<br><br>Part Number: 4RP/5RP   |    |
|                       | <b>Square Internal Slipfitter</b><br>Mounts inside 4" or 5" square pole and allows for mounting up to 4 luminaires<br><br>Part Number: BKA X_ISF * CLR                             |  | <b>Tapered Poles</b><br>20' - 39' steel and aluminum poles for retrofit and new construction<br><br>Part Number: RTP   |  |
| Wall Mount/ Wood Pole | <b>Wall Mount Bracket</b><br>Mounts onto vertical wall surface ( hardware/anchors not included)<br><br>Part Number: BKS XBO WM CLR   |  | <b>Bird Spikes</b><br>10' Linear Bird Spike Kit, 4' recommended per luminaire, includes silicone adhesive and application tool<br><br>Spike Part Number: 751631<br>Adhesive Part Number: 751632<br>Caulk Gun Part Number: 751636   |  |
|                       | <b>Wood Pole Bracket</b><br>Mounts onto wooden poles (6" minimum OD, hardware/anchors not included)<br><br>Part Number: BKS XBO WP CLR   |  | Replace CLR with paint finish description<br>Replace X with: 3<br>Replace XX with SQ for square pole or RD for round pole (≥3" OD)<br>Replace * with S (Single), D180 (Double @180°), D90 (Double @90°), T90 (Triple), Q90 (Quad)<br>Replace _ with 4 (4" square pole) or 5 (5" square pole) |   |

## OPTICS ROTATION



## ACCESSORIES/OPTIONS

### Integral Louver (IL) and House-Side Shield (IH)

Integral Louver (IL) and half louver (IH) accessory shields available for improved backlight control without sacrificing street side performance. LSI's Integral Louver (IL) and Integral House-Side Shield (IH) options deliver backlight control that significantly reduces spill light behind the poles for applications with pole locations close to adjacent properties. The design maximizes forward reflected light while reducing glare, maintaining the optical distribution selected, and most importantly eliminating light trespass. Both options rotate

Luminaire Shown with Integral Louver (IL)



Luminaire Shown with IMSBTL Option



### 7 Pin Photoelectric Control

7-pin ANSI C136.41-2013 control receptacle option available for twist lock photocontrols or wireless control modules. Control accessories sold separately. Dimming leads from the receptacle will be connected to the driver dimming leads (Consult factory for alternate wiring).

Luminaire Shown with CR7P



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SPEC.1020.B.0422

# Mirada Medium Outdoor LED Area Light

Type: \_\_\_\_\_

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## PERFORMANCE

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| DELIVERED LUMENS* |              |     |                  |          |            |                  |          |            |                  |          |            |
|-------------------|--------------|-----|------------------|----------|------------|------------------|----------|------------|------------------|----------|------------|
| Lumen Package     | Distribution | CRI | 3000K CCT        |          |            | 4000K CCT        |          |            | 5000K CCT        |          |            |
|                   |              |     | Delivered Lumens | Efficacy | BUG Rating | Delivered Lumens | Efficacy | BUG Rating | Delivered Lumens | Efficacy | BUG Rating |
| 9L                | 2            | 70  | 9853             | 159      | B2-U0-G2   | 9853             | 159      | B2-U0-G2   | 9853             | 159      | B2-U0-G2   |
|                   | 3            |     | 9926             | 160      | B2-U0-G2   | 9926             | 160      | B2-U0-G2   | 9926             | 160      | B2-U0-G2   |
|                   | 4            |     | 9178             | 148      | B2-U0-G3   | 9713             | 157      | B2-U0-G3   | 9498             | 153      | B2-U0-G3   |
|                   | 5W           |     | 9504             | 153      | B3-U0-G2   | 9504             | 153      | B3-U0-G2   | 9504             | 153      | B3-U0-G2   |
|                   | FT           |     | 9856             | 159      | B2-U0-G3   | 9856             | 159      | B2-U0-G3   | 9856             | 159      | B2-U0-G3   |
|                   | FTA          |     | 9900             | 160      | B2-U0-G2   | 9900             | 160      | B2-U0-G2   | 9900             | 160      | B2-U0-G2   |
|                   | AM           |     | 10019            | 162      | B2-U0-G1   | 10019            | 162      | B2-U0-G1   | 10019            | 162      | B2-U0-G1   |
|                   | LC/RC        |     | 9008             | 145      | B2-U0-G3   | 9533             | 154      | B2-U0-G3   | 9321             | 150      | B2-U0-G3   |
| 12L               | 2            | 70  | 13135            | 155      | B3-U0-G2   | 13135            | 155      | B3-U0-G2   | 13135            | 155      | B3-U0-G2   |
|                   | 3            |     | 13232            | 156      | B2-U0-G2   | 13232            | 156      | B2-U0-G2   | 13232            | 156      | B2-U0-G2   |
|                   | 4            |     | 12223            | 144      | B2-U0-G3   | 12935            | 152      | B2-U0-G4   | 12648            | 149      | B2-U0-G4   |
|                   | 5W           |     | 12669            | 149      | B4-U0-G2   | 12669            | 149      | B4-U0-G2   | 12669            | 149      | B4-U0-G2   |
|                   | FT           |     | 13138            | 155      | B2-U0-G3   | 13138            | 155      | B2-U0-G3   | 13138            | 155      | B2-U0-G3   |
|                   | FTA          |     | 13196            | 155      | B2-U0-G2   | 13196            | 155      | B2-U0-G2   | 13196            | 155      | B2-U0-G2   |
|                   | AM           |     | 13355            | 157      | B2-U0-G2   | 13355            | 157      | B2-U0-G2   | 13355            | 157      | B2-U0-G2   |
|                   | LC/RC        |     | 11996            | 141      | B2-U0-G3   | 12695            | 149      | B2-U0-G3   | 12414            | 146      | B2-U0-G3   |
| 18L               | 2            | 70  | 19318            | 143      | B3-U0-G3   | 19318            | 143      | B3-U0-G3   | 19318            | 143      | B3-U0-G3   |
|                   | 3            |     | 19461            | 144      | B3-U0-G3   | 19461            | 144      | B3-U0-G3   | 19461            | 144      | B3-U0-G3   |
|                   | 4            |     | 18013            | 133      | B2-U0-G4   | 19063            | 141      | B3-U0-G5   | 18640            | 138      | B3-U0-G5   |
|                   | 5W           |     | 18633            | 138      | B4-U0-G2   | 18633            | 138      | B4-U0-G2   | 18633            | 138      | B4-U0-G2   |
|                   | FT           |     | 19324            | 143      | B3-U0-G3   | 19324            | 143      | B3-U0-G3   | 19324            | 143      | B3-U0-G3   |
|                   | FTA          |     | 19408            | 144      | B3-U0-G3   | 19408            | 144      | B3-U0-G3   | 19408            | 144      | B3-U0-G3   |
|                   | AM           |     | 19641            | 145      | B3-U0-G2   | 19641            | 145      | B3-U0-G2   | 19641            | 145      | B3-U0-G2   |
|                   | LC/RC        |     | 17679            | 131      | B2-U0-G3   | 18710            | 139      | B2-U0-G3   | 18295            | 136      | B2-U0-G3   |
| 24L               | 2            | 70  | 24142            | 147      | B4-U0-G3   | 25957            | 147      | B4-U0-G3   | 25957            | 147      | B4-U0-G3   |
|                   | 3            |     | 25001            | 149      | B3-U0-G3   | 26149            | 149      | B3-U0-G3   | 26149            | 149      | B3-U0-G3   |
|                   | 4            |     | 24396            | 152      | B3-U0-G5   | 25600            | 160      | B3-U0-G5   | 25457            | 159      | B3-U0-G5   |
|                   | 5W           |     | 24327            | 142      | B5-U0-G3   | 25037            | 142      | B5-U0-G3   | 25037            | 142      | B5-U0-G3   |
|                   | FT           |     | 24994            | 148      | B3-U0-G3   | 25964            | 148      | B3-U0-G3   | 25964            | 148      | B3-U0-G3   |
|                   | FTA          |     | 24171            | 148      | B3-U0-G3   | 26077            | 148      | B4-U0-G3   | 26077            | 148      | B4-U0-G3   |
|                   | AM           |     | 24939            | 150      | B3-U0-G2   | 26393            | 150      | B3-U0-G2   | 26393            | 150      | B3-U0-G2   |
|                   | LC/RC        |     | 25884            | 162      | B3-U0-G4   | 25884            | 162      | B3-U0-G4   | 25310            | 158      | B3-U0-G4   |
| 30L               | 2            | 70  | 30171            | 140      | B4-U0-G3   | 32417            | 140      | B4-U0-G3   | 32417            | 140      | B4-U0-G3   |
|                   | 3            |     | 31243            | 141      | B3-U0-G4   | 32656            | 141      | B3-U0-G4   | 32656            | 141      | B3-U0-G4   |
|                   | 4            |     | 30651            | 144      | B3-U0-G5   | 32141            | 151      | B3-U0-G5   | 31961            | 150      | B3-U0-G5   |
|                   | 5W           |     | 30402            | 135      | B5-U0-G3   | 31267            | 135      | B5-U0-G3   | 31267            | 135      | B5-U0-G3   |
|                   | FT           |     | 31233            | 140      | B4-U0-G4   | 32424            | 140      | B4-U0-G4   | 32424            | 140      | B4-U0-G4   |
|                   | FTA          |     | 30207            | 140      | B4-U0-G4   | 32566            | 140      | B4-U0-G4   | 32566            | 140      | B4-U0-G4   |
|                   | AM           |     | 3116             | 142      | B4-U0-G3   | 32960            | 142      | B4-U0-G3   | 32960            | 142      | B4-U0-G3   |
|                   | LC/RC        |     | 32498            | 153      | B3-U0-G5   | 32498            | 153      | B3-U0-G5   | 31777            | 149      | B3-U0-G5   |

\*LEDs are frequently updated therefore values are nominal.



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# Mirada Medium Outdoor LED Area Light

Type : \_\_\_\_\_

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## PERFORMANCE (CONT.)

| DELIVERED LUMENS* |              |     |                  |          |            |                  |          |            |                  |          |            |         |
|-------------------|--------------|-----|------------------|----------|------------|------------------|----------|------------|------------------|----------|------------|---------|
| Lumen Package     | Distribution | CRI | 3000K CCT        |          |            | 4000K CCT        |          |            | 5000K CCT        |          |            | Wattage |
|                   |              |     | Delivered Lumens | Efficacy | BUG Rating | Delivered Lumens | Efficacy | BUG Rating | Delivered Lumens | Efficacy | BUG Rating |         |
| 36L               | 2            | 70  | 35357            | 133      | B4-U0-G3   | 38275            | 133      | B4-U0-G3   | 38275            | 133      | B4-U0-G3   | 288     |
|                   | 3            |     | 36614            | 134      | B4-U0-G4   | 38557            | 134      | B4-U0-G4   | 38557            | 134      | B4-U0-G4   |         |
|                   | 4            |     | 35402            | 139      | B3-U0-G5   | 37148            | 146      | B4-U0-G5   | 36940            | 145      | B4-U0-G5   |         |
|                   | 5W           |     | 35627            | 128      | B5-U0-G4   | 36917            | 128      | B5-U0-G4   | 36917            | 128      | B5-U0-G4   |         |
|                   | FT           |     | 36602            | 133      | B4-U0-G4   | 38283            | 133      | B4-U0-G4   | 38283            | 133      | B4-U0-G4   |         |
|                   | FTA          |     | 35399            | 134      | B4-U0-G4   | 38450            | 134      | B4-U0-G4   | 38450            | 134      | B4-U0-G4   |         |
|                   | AM           |     | 36524            | 135      | B4-U0-G3   | 38916            | 135      | B4-U0-G3   | 38916            | 135      | B4-U0-G3   |         |
|                   | LC/RC        |     | 37561            | 147      | B3-U0-G5   | 37561            | 147      | B3-U0-G5   | 36727            | 144      | B3-U0-G5   |         |
|                   | 2            |     | 41035            | 131      | B5-U0-G4   | 42602            | 136      | B5-U0-G4   | 42542            | 135      | B5-U0-G4   | 314     |
| 42L               | 3            | 70  | 42493            | 135      | B4-U0-G5   | 44115            | 140      | B4-U0-G5   | 44053            | 140      | B4-U0-G5   |         |
|                   | 4            |     | 41453            | 132      | B4-U0-G5   | 43497            | 138      | B4-U0-G5   | 43254            | 138      | B4-U0-G5   |         |
|                   | 5W           |     | 41349            | 132      | B5-U0-G4   | 42927            | 134      | B5-U0-G4   | 42866            | 137      | B5-U0-G4   |         |
|                   | FT           |     | 42481            | 135      | B4-U0-G4   | 44103            | 140      | B4-U0-G4   | 44040            | 140      | B4-U0-G4   |         |
|                   | FTA          |     | 41083            | 131      | B4-U0-G4   | 42652            | 136      | B5-U0-G4   | 42591            | 136      | B5-U0-G4   |         |
|                   | AM           |     | 42389            | 135      | B4-U0-G3   | 44007            | 140      | B4-U0-G3   | 43944            | 140      | B4-U0-G3   |         |
|                   | LC/RC        |     | 43980            | 140      | B3-U0-G5   | 43980            | 140      | B3-U0-G5   | 43004            | 137      | B3-U0-G5   |         |
|                   | 2            | 70  | 45133            | 123      | B5-U0-G4   | 46856            | 128      | B5-U0-G4   | 46789            | 128      | B5-U0-G4   | 401     |
|                   | 3            |     | 46737            | 128      | B4-U0-G5   | 48521            | 133      | B4-U0-G5   | 48452            | 132      | B4-U0-G5   |         |
|                   | 4            |     | 46006            | 126      | B4-U0-G5   | 48275            | 132      | B4-U0-G5   | 48005            | 131      | B4-U0-G5   |         |
|                   | 5W           |     | 45478            | 124      | B5-U0-G4   | 47214            | 129      | B5-U0-G4   | 47147            | 129      | B5-U0-G4   |         |
|                   | FT           |     | 46723            | 128      | B4-U0-G5   | 48507            | 133      | B4-U0-G5   | 48438            | 132      | B4-U0-G5   |         |
|                   | FTA          |     | 45187            | 123      | B5-U0-G4   | 46912            | 128      | B5-U0-G4   | 46845            | 128      | B5-U0-G4   |         |
|                   | AM           |     | 4662             | 127      | B4-U0-G3   | 48402            | 132      | B4-U0-G3   | 48333            | 132      | B4-U0-G3   |         |
|                   | LC/RC        |     | 48811            | 133      | B4-U0-G5   | 48811            | 133      | B4-U0-G5   | 47728            | 130      | B4-U0-G5   |         |
| 55L               | 2            | 70  | 50179            | 115      | B5-U0-G4   | 52095            | 119      | B5-U0-G4   | 52021            | 119      | B5-U0-G4   | 438     |
|                   | 3            |     | 51963            | 119      | B4-U0-G5   | 53947            | 123      | B4-U0-G5   | 53870            | 123      | B4-U0-G5   |         |
|                   | 4            |     | 51635            | 119      | B4-U0-G5   | 54181            | 125      | B4-U0-G5   | 53878            | 124      | B4-U0-G5   |         |
|                   | 5W           |     | 50563            | 115      | B5-U0-G4   | 52493            | 120      | B5-U0-G4   | 52418            | 120      | B5-U0-G4   |         |
|                   | FT           |     | 50539            | 115      | B4-U0-G5   | 52468            | 120      | B4-U0-G5   | 52394            | 120      | B4-U0-G5   |         |
|                   | FTA          |     | 50239            | 115      | B5-U0-G4   | 52157            | 119      | B5-U0-G4   | 52082            | 119      | B5-U0-G4   |         |
|                   | AM           |     | 52223            | 119      | B4-U0-G3   | 54216            | 124      | B4-U0-G3   | 54139            | 124      | B4-U0-G3   |         |
|                   | LC/RC        |     | 54113            | 124      | B4-U0-G5   | 54113            | 124      | B4-U0-G5   | 52912            | 121      | B4-U0-G5   |         |

\*LEDs are frequently updated therefore values are nominal.



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SPEC.1020.B.0422

# Mirada Medium Outdoor LED Area Light

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Type: \_\_\_\_\_

## PERFORMANCE (CONT.)

| ELECTRICAL DATA (AMPS)* |      |      |      |      |      |      |
|-------------------------|------|------|------|------|------|------|
| Lumens                  | 120V | 208V | 240V | 277V | 347V | 480V |
| 9L                      | 0.52 | 0.30 | 0.26 | 0.22 | 0.18 | 0.13 |
| 12L                     | 0.71 | 0.41 | 0.35 | 0.31 | 0.24 | 0.18 |
| 18L                     | 1.13 | 0.65 | 0.56 | 0.49 | 0.39 | 0.28 |
| 24L                     | 1.33 | 0.77 | 0.67 | 0.58 | 0.46 | 0.33 |
| 30L                     | 1.78 | 1.02 | 0.89 | 0.77 | 0.61 | 0.44 |
| 36L                     | 2.12 | 1.22 | 1.06 | 0.92 | 0.73 | 0.53 |
| 42L                     | 2.62 | 1.51 | 1.31 | 1.13 | 0.90 | 0.65 |
| 48L                     | 3.05 | 1.76 | 1.53 | 1.32 | 1.05 | 0.76 |
| 55L                     | 3.65 | 2.11 | 1.83 | 1.58 | 1.26 | 0.91 |

| RECOMMENDED LUMEN MAINTENANCE <sup>1</sup> (0-25°C) |                      |                  |                   |                   |                    |
|---|----------------------|------------------|-------------------|-------------------|--------------------|
| Ambient   | Initial <sup>2</sup> | 25h <sup>2</sup> | 50hr <sup>2</sup> | 75hr <sup>2</sup> | 100hr <sup>2</sup> |
| 9L - 18L  | 100%                 | 97%              | 93%               | 90%               | 86%                |
| 24L - 48L   | 100%                 | 95%              | 89%               | 84%               | 79%                |
| 55L   | 100%                 | 91%              | 82%               | 74%               | 67%                |

| RECOMMENDED LUMEN MAINTENANCE <sup>1</sup> (40°C) |                      |                  |                   |                   |                    |
|---|----------------------|------------------|-------------------|-------------------|--------------------|
| Ambient   | Initial <sup>2</sup> | 25h <sup>2</sup> | 50hr <sup>2</sup> | 75hr <sup>2</sup> | 100hr <sup>2</sup> |
| 9L - 18L  | 100%                 | 97%              | 92%               | 88%               | 84%                |
| 24L - 48L   | 100%                 | 94%              | 87%               | 80%               | 74%                |

| RECOMMENDED LUMEN MAINTENANCE <sup>1</sup> (50°C) |                      |                  |                   |                   |                    |
|---|----------------------|------------------|-------------------|-------------------|--------------------|
| Ambient   | Initial <sup>2</sup> | 25h <sup>2</sup> | 50hr <sup>2</sup> | 75hr <sup>2</sup> | 100hr <sup>2</sup> |
| 9L - 18L C  | 100%                 | 96%              | 91%               | 87%               | 85%                |

\*Electrical data at 25°C (77°F). Actual wattage may differ by +/-10%

1. Lumen maintenance values at 25C are calculated per TM-21 based on LM-80 data and in-situ testing.
2. In accordance with IESNA TM-21-11, Projected Values represent interpolated value based on time durations that are within six times the IESNA LM-80-08 total test duration for the device under testing.
3. In accordance with IESNA TM-21-11, Calculated Values represent time durations that exceed six times the IESNA LM-80-08 total test duration for the device under testing.

| DELIVERED LUMENS* |              |                                       |          |            |         |
|-------------------|--------------|---------------------------------------|----------|------------|---------|
| Lumen Package     | Distribution | Phosphor Converted Amber (Peak 610mm) |          |            | Wattage |
|                   |              | Delivered Lumens                      | Efficacy | BUG Rating |         |
| 9L                | 2            | 5848                                  | 80       | B2-U0-G2   | 74      |
|                   | 3            | 6018                                  | 82       | B1-U0-G2   |         |
|                   | 5W           | 5471                                  | 74       | B3-U0-G1   |         |
|                   | FT           | 5801                                  | 79       | B1-U0-G2   |         |
|                   | FTA          | 5924                                  | 81       | B1-U0-G1   |         |
|                   | AM           | 5995                                  | 81       | B1-U0-G1   |         |
| 12L               | 2            | 7530                                  | 74       | B2-U0-G2   | 102     |
|                   | 3            | 7749                                  | 76       | B1-U0-G2   |         |
|                   | 5W           | 7045                                  | 69       | B3-U0-G2   |         |
|                   | FT           | 7470                                  | 73       | B2-U0-G2   |         |
|                   | FTA          | 7628                                  | 75       | B2-U0-G2   |         |
|                   | AM           | 7720                                  | 76       | B1-U0-G1   |         |
| 18L               | 2            | 9311                                  | 69       | B2-U0-G2   | 135     |
|                   | 3            | 9582                                  | 71       | B2-U0-G2   |         |
|                   | 5W           | 8712                                  | 65       | B3-U0-G2   |         |
|                   | FT           | 9237                                  | 68       | B2-U0-G2   |         |
|                   | FTA          | 9433                                  | 70       | B2-U0-G2   |         |
|                   | AM           | 9546                                  | 71       | B2-U0-G1   |         |
| 24L               | 2            | 10955                                 | 63       | B2-U0-G2   | 175     |
|                   | 3            | 11273                                 | 64       | B2-U0-G2   |         |
|                   | 5W           | 10249                                 | 59       | B3-U0-G2   |         |
|                   | FT           | 10867                                 | 62       | B2-U0-G2   |         |
|                   | FTA          | 11097                                 | 63       | B2-U0-G2   |         |
|                   | AM           | 11230                                 | 64       | B2-U0-G1   |         |

| ELECTRICAL DATA - PHOSPHOR CONVERTED AMBER (AMPS)* |      |      |      |      |      |
|--|------|------|------|------|------|
| Lumens   | 120V | 208V | 240V | 277V | 347V |
| 9L   | 0.62 | 0.36 | 0.31 | 0.27 | 0.21 |
| 12L  | 0.85 | 0.50 | 0.43 | 0.38 | 0.30 |
| 18L  | 1.13 | 0.65 | 0.56 | 0.49 | 0.39 |
| 24L  | 1.47 | 0.85 | 0.73 | 0.64 | 0.51 |

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SPEC.1020.B.0422

# Mirada Medium Outdoor LED Area Light

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Type: \_\_\_\_\_

## PHOTOMETRICS

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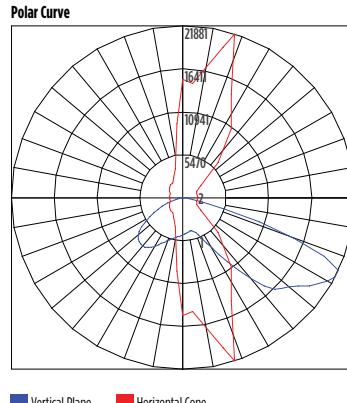
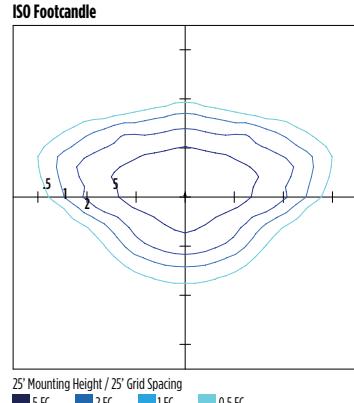
Luminaire photometry has been conducted by a NVLAP accredited testing laboratory in accordance with IESNA LM-79-08. As specified by IESNA LM-79-08 the entire luminaire is tested as the source resulting in a luminaire efficiency of 100%.

See the individual product page on <https://www.lsicorp.com/> for detailed photometric data.

### MRM-LED-30L-SIL-2-40-70CRI

| Luminaire Data      |                     |
|---------------------|---------------------|
| Type 2 Distribution |                     |
| Description         | 4000 Kelvin, 70 CRI |
| Delivered Lumens    | 32,416              |
| Watts               | 232                 |
| Efficacy            | 140                 |
| IES Type            | Type II - Short     |
| BUG Rating          | B4-U0-G3            |

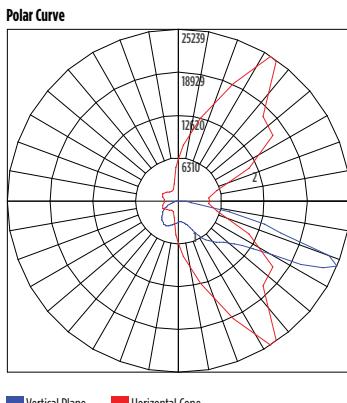
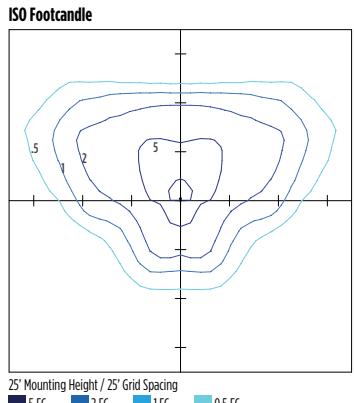
| Zonal Lumen Summary |        |             |
|---------------------|--------|-------------|
| Zone                | Lumens | % Luminaire |
| Low (0-30°)         | 4796   | 15%         |
| Medium (30-60°)     | 19811  | 61%         |
| High (60-80°)       | 7474   | 23%         |
| Very High (80-90°)  | 335    | 1%          |
| Uplight (90-180°)   | 0      | 0%          |
| Total Flux          | 32416  | 100%        |



### MRM-LED-30L-SIL-3-40-70CRI

| Luminaire Data      |                     |
|---------------------|---------------------|
| Type 3 Distribution |                     |
| Description         | 4000 Kelvin, 70 CRI |
| Delivered Lumens    | 32,656              |
| Watts               | 232                 |
| Efficacy            | 141                 |
| IES Type            | Type III - Short    |
| BUG Rating          | B3-U0-G4            |

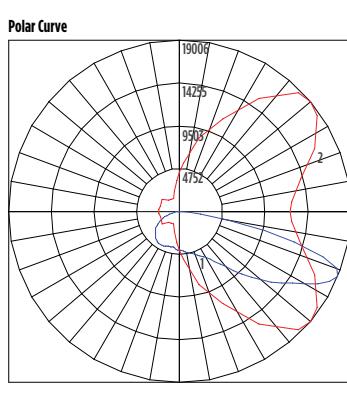
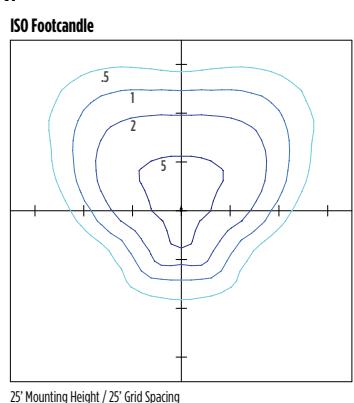
| Zonal Lumen Summary |        |             |
|---------------------|--------|-------------|
| Zone                | Lumens | % Luminaire |
| Low (0-30°)         | 3385   | 10%         |
| Medium (30-60°)     | 16250  | 50%         |
| High (60-80°)       | 12430  | 38%         |
| Very High (80-90°)  | 591    | 2%          |
| Uplight (90-180°)   | 0      | 0%          |
| Total Flux          | 32656  | 100%        |



### MRM-LED-30L-SIL-FT-40-70CRI

| Luminaire Data       |                     |
|----------------------|---------------------|
| Type FT Distribution |                     |
| Description          | 4000 Kelvin, 70 CRI |
| Delivered Lumens     | 32,424              |
| Watts                | 232                 |
| Efficacy             | 140                 |
| IES Type             | Type IV - Short     |
| BUG Rating           | B3-U0-G4            |

| Zonal Lumen Summary |        |             |
|---------------------|--------|-------------|
| Zone                | Lumens | % Luminaire |
| Low (0-30°)         | 3952   | 12%         |
| Medium (30-60°)     | 15505  | 48%         |
| High (60-80°)       | 12279  | 38%         |
| Very High (80-90°)  | 688    | 2%          |
| Uplight (90-180°)   | 0      | 0%          |
| Total Flux          | 32424  | 100%        |



# Mirada Medium Outdoor LED Area Light

Type : \_\_\_\_\_

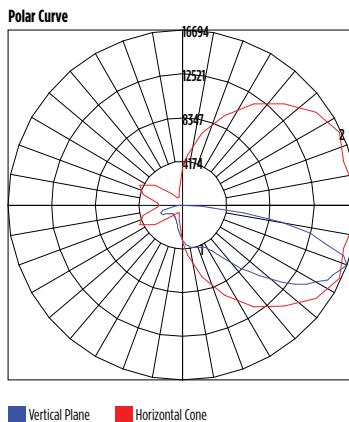
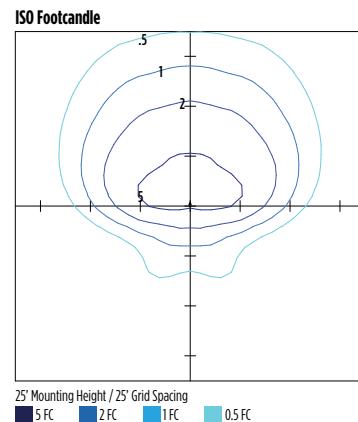
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## PHOTOMETRICS (CONT)

### MRM-LED-30L-SIL-4-40-70CRI

| Luminaire Data      |                      |
|---------------------|----------------------|
| Type 4 Distribution |                      |
| Description         | 4000 Kelvin, 70 CRI  |
| Delivered Lumens    | 32,141               |
| Watts               | 213                  |
| Efficacy            | 151                  |
| IES Type            | Type IV - Very Short |
| BUG Rating          | B3-U0-G5             |

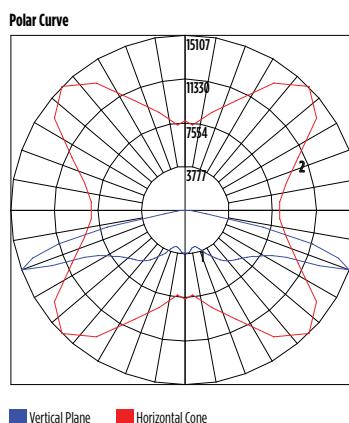
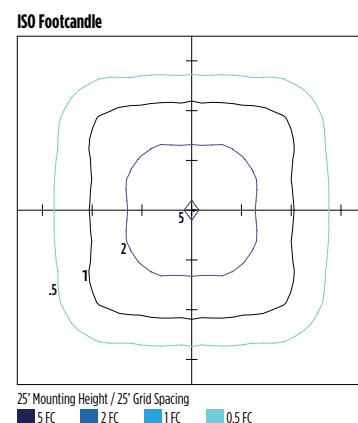
| Zonal Lumen Summary |        |             |
|---------------------|--------|-------------|
| Zone                | Lumens | % Luminaire |
| Low (0-30°)         | 3119   | 10%         |
| Medium (30-60°)     | 13569  | 42%         |
| High (60-80°)       | 13649  | 42%         |
| Very High (80-90°)  | 1804   | 6%          |
| Uplight (90-180°)   | 0      | 0%          |
| Total Flux          | 32141  | 100%        |



### MRM-LED-30L-SIL-5W-40-70CRI

| Luminaire Data       |                     |
|----------------------|---------------------|
| Type 5W Distribution |                     |
| Description          | 4000 Kelvin, 70 CRI |
| Delivered Lumens     | 31,267              |
| Watts                | 232                 |
| Efficacy             | 135                 |
| IES Type             | Type VS - Short     |
| BUG Rating           | B5-U0-G3            |

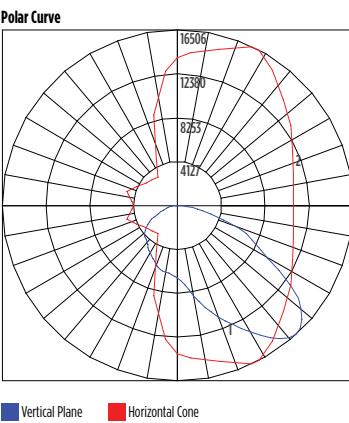
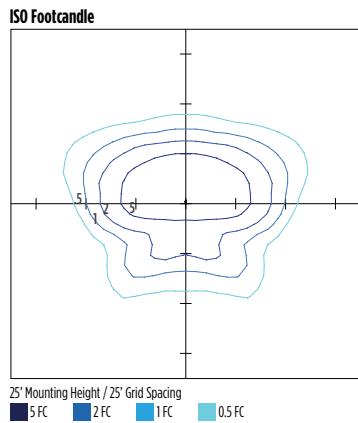
| Zonal Lumen Summary |        |             |
|---------------------|--------|-------------|
| Zone                | Lumens | % Luminaire |
| Low (0-30°)         | 3138   | 10%         |
| Medium (30-60°)     | 13193  | 42%         |
| High (60-80°)       | 14641  | 47%         |
| Very High (80-90°)  | 296    | 1%          |
| Uplight (90-180°)   | 0      | 0%          |
| Total Flux          | 31267  | 100%        |



### MRM-LED-30L-SIL-FTA-40-70CRI

| Luminaire Data        |                     |
|-----------------------|---------------------|
| Type FTA Distribution |                     |
| Description           | 4000 Kelvin, 70 CRI |
| Delivered Lumens      | 32,566              |
| Watts                 | 232                 |
| Efficacy              | 140                 |
| IES Type              | Type VS - Short     |
| BUG Rating            | B4-U0-G3            |

| Zonal Lumen Summary |        |             |
|---------------------|--------|-------------|
| Zone                | Lumens | % Luminaire |
| Low (0-30°)         | 6986   | 21%         |
| Medium (30-60°)     | 19172  | 59%         |
| High (60-80°)       | 5875   | 18%         |
| Very High (80-90°)  | 534    | 2%          |
| Uplight (90-180°)   | 0      | 0%          |
| Total Flux          | 32566  | 100%        |



# Mirada Medium Outdoor LED Area Light

Type: \_\_\_\_\_

 Have questions? Call us at (800) 436-7800

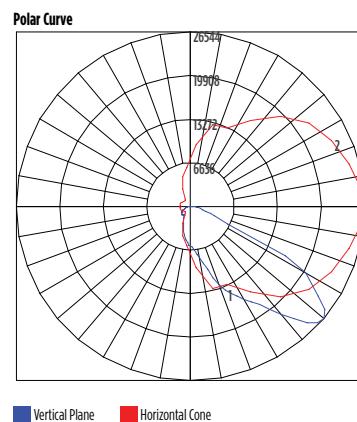
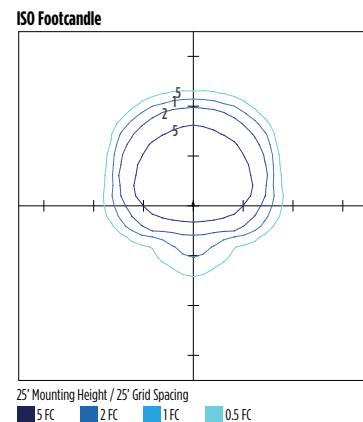
## PHOTOMETRICS (CONT)

[Back to Quick Links](#)

### MRM-LED-30L-SIL-AM-40-70CRI

| Luminaire Data       |                       |
|----------------------|-----------------------|
| Type AM Distribution |                       |
| Description          | 4000 Kelvin, 70 CRI   |
| Delivered Lumens     | 32,960                |
| Watts                | 232                   |
| Efficacy             | 142                   |
| IES Type             | Type III - Very Short |
| BUG Rating           | B3-U0-G3              |

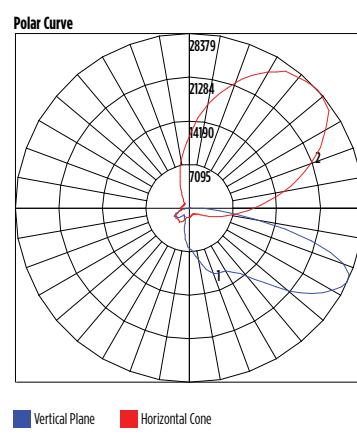
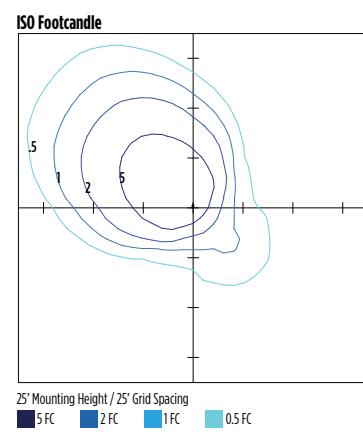
| Zonal Lumen Summary |        |             |
|---------------------|--------|-------------|
| Zone                | Lumens | % Luminaire |
| Low (0-30°)         | 6363   | 19%         |
| Medium (30-60°)     | 22026  | 67%         |
| High (60-80°)       | 4192   | 13%         |
| Very High (80-90°)  | 379    | 1%          |
| Uplight (90-180°)   | 0      | 0%          |
| Total Flux          | 32960  | 100%        |



### MRM-LED-30L-SIL-LC-40-70CRI

| Luminaire Data           |                     |
|--------------------------|---------------------|
| Left Corner Distribution |                     |
| Description              | 4000 Kelvin, 70 CRI |
| Delivered Lumens         | 32,498              |
| Watts                    | 213                 |
| Efficacy                 | 153                 |
| IES Type                 | N/A                 |
| BUG Rating               | B3-U0-G5            |

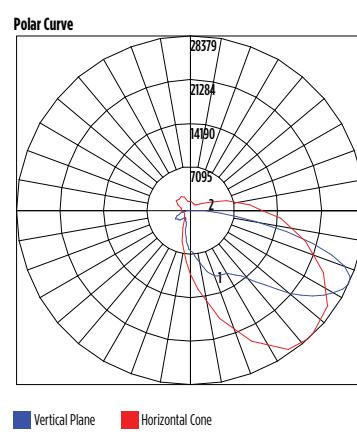
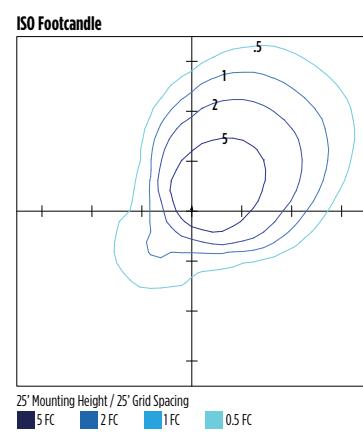
| Zonal Lumen Summary |        |             |
|---------------------|--------|-------------|
| Zone                | Lumens | % Luminaire |
| Low (0-30°)         | 5083   | 16%         |
| Medium (30-60°)     | 14808  | 46%         |
| High (60-80°)       | 11603  | 36%         |
| Very High (80-90°)  | 1005   | 3%          |
| Uplight (90-180°)   | 0      | 0%          |
| Total Flux          | 32498  | 100%        |



### MRM-LED-30L-SIL-RC-40-70CRI

| Luminaire Data            |                     |
|---------------------------|---------------------|
| Right Corner Distribution |                     |
| Description               | 4000 Kelvin, 70 CRI |
| Delivered Lumens          | 32,498              |
| Watts                     | 213                 |
| Efficacy                  | 153                 |
| IES Type                  | N/A                 |
| BUG Rating                | B3-U0-G5            |

| Zonal Lumen Summary |        |             |
|---------------------|--------|-------------|
| Zone                | Lumens | % Luminaire |
| Low (0-30°)         | 5083   | 16%         |
| Medium (30-60°)     | 14808  | 46%         |
| High (60-80°)       | 11603  | 36%         |
| Very High (80-90°)  | 1005   | 3%          |
| Uplight (90-180°)   | 0      | 0%          |
| Total Flux          | 32498  | 100%        |

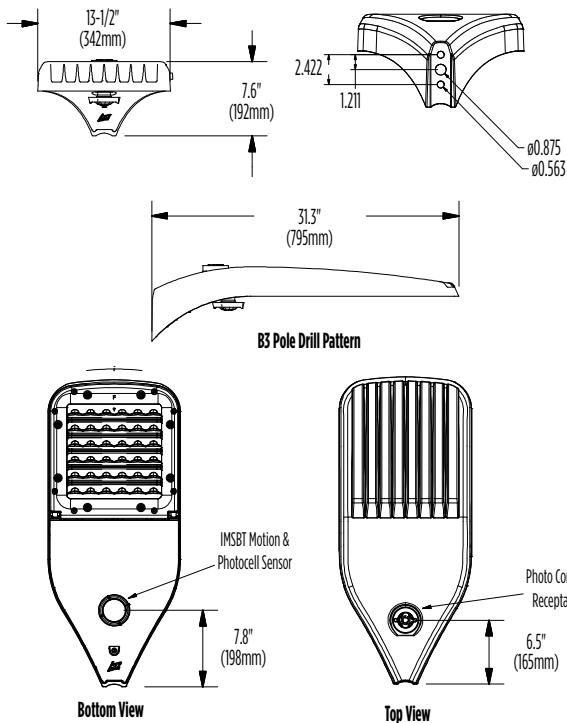


# Mirada Medium Outdoor LED Area Light

Type: \_\_\_\_\_

 **Have questions?** Call us at (800) 436-7800

## PRODUCT DIMENSIONS



### Luminaire EPA Chart

| Tilt Degree   | 0°  | 15° | 30° | 45° |
|---|-----|-----|-----|-----|
|  <b>Single</b> | 0.5 | 1.0 | 1.5 | 1.9 |
|  <b>D180°</b>  | 1.0 | 1.5 | 1.5 | 1.9 |
|  <b>D90°</b>   | 0.8 | 1.8 | 1.9 | 2.3 |
|  <b>T90°</b>   | 1.0 | 4.0 | 2.5 | 2.8 |
|  <b>TN120°</b> | 1.0 | 2.9 | 3.3 | 3.9 |
|  <b>Q90°</b>   | 1.0 | 4.0 | 2.5 | 2.8 |



# Mirada Medium Outdoor LED Area Light

Type: \_\_\_\_\_

 **Have questions?** Call us at (800) 436-7800

## CONTROLS

### Integral Bluetooth™ Motion and Photocell Sensor (IMSBTxL)

Slim low profile sensor provides multi-level control based on motion and/or daylight. Sensor controls 0-10 VDC LED drivers and is IP66 rated for cold and wet locations (-40°F to 167°F). Two unique PIR lenses are available and used based on fixture mounting height. All control parameters are adjustable via an iOS or Android App capable of storing and transmitting sensor profiles.

[Click here to learn more details about IMSBT](#)



LEVITON App



Apple



Android

### AirLink Blue (ALBCSx)

Wireless Bluetooth Mesh Outdoor Lighting Control System that provides energy savings, code compliance and enhanced safety/security for parking lots and parking garages. Three key components; Bluetooth wireless radio/sensor controller, Time Keeper and an iOS App. Capable of grouping multiple fixtures and sensors as well as scheduling time-based events by zone. Radio/Sensor Controller is factory integrated into Area/Site, Wall Mounted, Parking Garage and Canopy luminaires.

[Click here to learn more details about AirLink Blue](#)



AirLink Blue App



Apple

## Sensor Sequence of Operations

| Standard Programming | On Event | Off Event | On Light Level | Dim Light Level | Daylight Harvesting  | Delay To Off | Sensitivity |
|----------------------|----------|-----------|----------------|-----------------|----------------------|--------------|-------------|
| OMSBTxL/IMSBTxL      | Motion   | No Motion | 100%           | N/A             | On; Auto Calibration | 20 minutes   | High        |
| OMS                  | Motion   | No Motion | N/A            | N/A             | N/A                  | 30 seconds   | Auto        |

| Operation       | Description  |
|-----------------|--|
| On Event        | Trigger that activates lights to turn on; either automatic via motion detected or manually activated via push of button.   |
| Off Event       | Trigger that activates lights to turn off; either automatic via no motion detected or manually activated via push of button.   |
| On Light Level  | The light level that the fixtures will turn on to when ON EVENT occurs.  |
| Dim Light Level | The light level that the fixtures will dim down to when no motion is detected.   |
| Delay to Dim    | The amount of time after which no motion is detected that the fixtures will be triggered to dim down. This sequence is optional, and sensor can be programmed to only trigger the fixture to turn off by entering 100% in this field.  |
| Delay to Off    | The amount of time after which no motion is detected that the fixtures will be triggered to turn off. If delay to dim is part of the programmed functionality, this is the amount of time after which no motion is detected after the fixture have already dimmed down.  |
| Sensitivity     | The sensitivity can be set to high, medium, low, or auto where applicable. High will detect smaller, simple motions. Low will only detect larger more complex motions. Auto temperature calibration adjusts the PIR sensitivity as ambient temperature rises to increase detection of heat movement through the field of view. |



# Steel Poles

## Square Straight



### QUICK LINKS

## FEATURES & SPECIFICATIONS

### Pole Shaft

- Straight poles are 4", 5", or 6" square.
- Pole shaft is electro-welded ASTM-A500 Grade C steel tubing with a minimum yield strength of 50,000 psi.
- On Tenon Mount steel poles, tenon is 2-3/8" O.D. high-strength pipe. Tenon is 4-3/4" in length.

### Hand-Hole

- Standard hand-hole location is 12" above pole base.
- Poles 22' and above have a 3x6 reinforced hand hole.

### Base

- Pole base is ASTM-A36 hot-rolled steel plate with a minimum yield strength of 36,000 psi.
- Two-piece square base cover is optional.

### Anchor Bolts

- Poles are furnished with anchor bolts featuring zinc-plated double nuts and washers. Galvanized anchor bolts are optional.
- Anchor Bolts conform to ASTM F 1554-07a Grade 55 with a minimum yield strength of 55,000 PSI.

### Ground Lug

- Ground lug is standard.

### Duplex Receptacle

- Weatherproof duplex receptacle is optional.

### Ground Fault Circuit Interrupter

- Self-testing Ground fault circuit interrupter is optional.

### Finishes

- Every pole is provided with the DuraGrip Protection System and a 5-year limited warranty:
- When the top-of-the line DuraGrip Plus Protection System is selected, in addition to the DuraGrip Protection System, a non-porous, automotive-grade corrosion coating is applied to the lower portion of the pole interior sealing and further protecting it from corrosion. This option extends the limited warranty to 7 years.

### Determining The Luminaire/Pole Combination For Your Application:

- Select luminaire from luminaire ordering information.
- Select bracket configuration if required
- Determine EPA value from luminaire/bracket EPA chart

- Select Pole Height

- Select MPH to match wind speed in the application area (See windspeed maps).
- Confirm pole EPA equal to or exceeding value of luminaire/bracket EPA
- Consult factory for special wind load requirements and banner brackets.

### Pole Vibration Damper

- A pole vibration damper is recommended in open terrain areas of the country where low steady state winds are common.
- Non-tapered poles and lightly loaded poles are more susceptible to destructive vibration if a damper is not installed.

### Listings

- UL Listed
- BAA/TAA Compliant



# Steel Poles Square Straight

 Have questions? Call us at (800) 436-7800

Type : \_\_\_\_\_

## ORDERING GUIDE

**TYPICAL ORDER EXAMPLE: 4SQ B3 S11G 24 S PLP DGP**

| Pole Series   | Mounting Method  | Material  | Height <sup>2</sup> | Mounting Configuration  | Pole Finish                    | Options                                    |
|---|--|---|---------------------|---|--------------------------------|--|
| <b>4SQ</b> - 4" x 4" Square Straight Pole (New Build) | <b>Bolt-On Mount<sup>1</sup></b> - See pole selection guide for patterns and fixture matches | <b>S11G</b> - 11 Ga. Steel<br>(4SQ/4SQU and<br>5SQ/5SQU Only) | 8'                  | <b>S</b> - Single/Parallel  | <b>BRZ</b> - Bronze            | <b>GA</b> - Galvanized Anchor Bolts        |
| <b>5SQ</b> - 5" x 5" Square Straight Pole (New Build) | <b>B5</b> - 5" Traditional Drilling Pattern  | <b>S07G</b> - 07 Ga. Steel                                    | 10'                 | <b>D180</b> - Double  | <b>BLK</b> - Black             | <b>SF</b> - Single Flood <sup>3</sup>      |
| <b>6SQ</b> - 6" x 6" Square Straight Pole (New Build) | <b>B3</b> - 3" Reduced Pattern   |   | 12'                 | <b>D90</b> - Double   | <b>PLP</b> - Platinum Plus     | <b>DF</b> - Double Flood <sup>3</sup>      |
| <b>4SQU</b> - 4" x 4" Square Straight Pole (Retrofit) | <b>B2</b> - 2" Low Profile Drilling Pattern  |   | 13'                 | <b>DN90</b> - Double  | <b>WHT</b> - White             | <b>DGP</b> - DuraGrip <sup>®</sup> Plus    |
| <b>5SQU</b> - 5" x 5" Square Straight Pole (Retrofit) | <b>B2R</b> - Raised 2" Low Profile Drilling Pattern <b>(LAL4 ONLY)</b>                       |   | 14'                 | <b>T90</b> - Triple   | <b>SVG</b> - Satin Verde Green | <b>LAB</b> - Less Anchor Bolts             |
| <b>6SQU</b> - 6" x 6" Square Straight Pole (Retrofit) |  |   | 15'                 | <b>TN120</b> - Triple   | <b>GPT</b> - Graphite          | <b>CRXX</b> - Conduit Raceway <sup>4</sup> |
|   |  |   | 16'                 | <b>Q90</b> - Quad   | <b>MSV</b> - Metallic Silver   |  |
|   |  |   | 17'                 | <b>QN90</b> - Quad  | <b>BZA</b> - Alternate Bronze  |  |
|   |  |   | 17'6"               |   | <b>GMG</b> - Gun Metal Gray    |  |
|   |  |   | 18'                 | <b>N</b> - Tenon Mount<br>(Standard Tenon<br>size is 2-3/8"<br>O.D.) <sup>5</sup> |                                |  |
|   |  |   | 20'                 |   |                                |  |
|   |  |   | 22'                 |   |                                |  |
|   |  |   | 22'6"               |   |                                |  |
|   |  |   | 23'                 |   |                                |  |
|   |  |   | 24'                 | <b>(Blank)</b> - Use with I for<br>Mounting Method                                |                                |  |
|   |  |   | 25'                 |   |                                |  |
|   |  |   | 26'                 |   |                                |  |
|   |  |   | 27'                 |   |                                |  |
|   |  |   | 28'                 |   |                                |  |
|   |  |   | 30'                 |   |                                |  |
|   |  |   | 32'                 |   |                                |  |
|   |  |   | 35'                 |   |                                |  |
|   |  |   | 39'                 |   |                                |  |



**Need more information?**  
[Click here for our glossary](#)

**Have additional questions?**  
Call us at (800) 436-7800



## ACCESSORY ORDERING INFORMATION

| Part Number | Description  |
|-------------|--|
| 122559CLR   | 4BC - 4" Square Base Cover   |
| 122561CLR   | 5BC - 5" Square Base Cover   |
| 122563CLR   | 6BC - 6" Square Base Cover   |
| 132488CLR   | 5BC - 5' Square Universal Base Cover   |
| 131252CLR   | 6BC - 6' Square Universal Base Cover   |
| 122566CLR   | ER2 - Weatherproof Duplex Receptacle   |
| 122567CLR   | GFI - Ground Fault Circuit Interrupter   |
| 132336      | MH5 - mounting Hole Plugs for use with 5" traditional drill pattern (3 set of 3 plugs) |
| 681126      | MH3 - mounting Hole Plugs for use with 3" reduced drill pattern (3 set of 3 plugs)     |
| 725841      | MH2 - Mounting Hole Plugs for use with 2" reduced drill pattern (3 sets of 3 plugs)    |
| 172539      | Vibration Damper - 4" Square Pole (bolt-on mount only)                                 |
| 172538      | Vibration Damper - 5" Square Pole (bolt-on mount only)                                 |
| 178361      | Vibration Damper - 6" Square Pole (bolt-on mount only)                                 |

## ANCHOR BOLT KIT ORDERING INFORMATION

| Part Number           | Description                               |
|-----------------------|---|
| <b>AB KIT 122584</b>  | 4SQ S11G/S07G Anchor Bolts (Steel Plated) |
| <b>AB KIT 122609</b>  | 4SQ S11G/S07G Anchor Bolts (Galvanized)   |
| <b>AB KIT 1225850</b> | 5SQ S11G Anchor Bolts (Steel Plated)      |
| <b>AB KIT 122610</b>  | 5SQ S11G Anchor Bolts (Galvanized)        |
| <b>AB KIT 122586</b>  | 5SQ S07G Anchor Bolts (Steel Plated)      |
| <b>AB KIT 122611</b>  | 5SQ S07G Anchor Bolts (Galvanized)        |
| <b>AB KIT 122612</b>  | 6SQ S07G Anchor Bolts (Galvanized)        |

1 - See Area Light Brackets - 3" Reduced Drill Pattern and Area Light Brackets - 5" Traditional Drill Pattern Spec Sheets.

2 - Pole heights will have +/- 1/2" tolerance.

3 - See Flood Lighting Brackets section for choice of FBO brackets.

4 - CR selection must indicate required height and side of pole mounting location. Mounting template required at time of order.



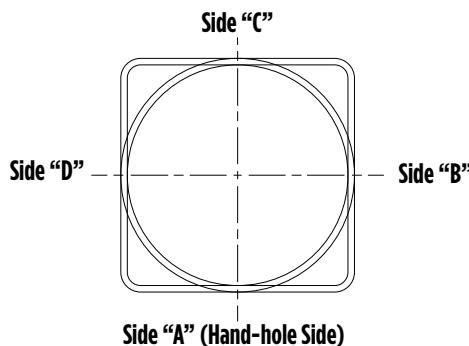
# Steel Poles Square Straight

Have questions? Call us at (800) 436-7800

Type : \_\_\_\_\_

## DRILLING LOCATIONS

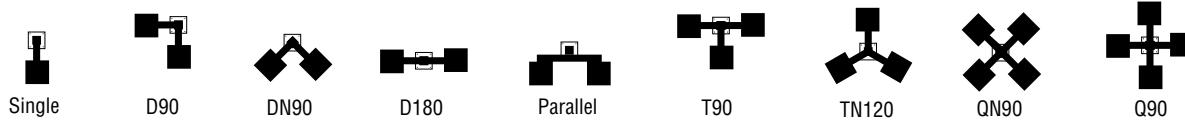
| Sides                    | A | B | C | D |
|--------------------------|---|---|---|---|
| <b>Hand-hole</b>         | X |   |   |   |
| <b>Single</b>            | X |   |   |   |
| <b>D180</b>              |   | X |   | X |
| <b>D90</b>               | X |   |   | X |
| <b>DN90<sup>1</sup></b>  |   |   |   |   |
| <b>T90</b>               | X | X |   | X |
| <b>TN120<sup>2</sup></b> |   |   |   |   |
| <b>Q90</b>               | X | X | X | X |
| <b>QN90<sup>3</sup></b>  |   |   |   |   |
| <b>Single FBO</b>        | X |   |   |   |
| <b>Double FBO</b>        |   | X |   | X |



- 1 - Two locations will be 45° to the left and right of Side A.
- 2 - Other two locations will be 120° to the left and right of Side A.
- 3 - Two locations will be 45° to the left and right of Side A and two locations will be 135° to the left and right of Side A.

Consult factory for custom variations. Standard SF and DF pole preparations are located 3/4 of the height of the pole from the base, except on 20' poles. Maximum height for SF and DF pole preparations on 20' poles is 13' from the base.

## Fixture Configurations



# Steel Poles Square Straight

Have questions? Call us at (800) 436-7800

Type : \_\_\_\_\_

## BOLT CIRCLE

### STANDARD BASEPLATE

4" (102mm) square  
10-1/8" (257mm) sq.



11" (279mm) Dia. Bolt Circle

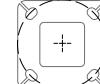
5" (127mm) square  
10-1/8" (257mm) sq.



5" (127mm) square  
10-1/8" (257mm) sq.



6" (152mm) square  
12" (305mm) sq.



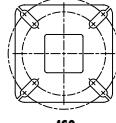
12" (305mm) Dia. Bolt Circle

| Bolt Circle Designator               | B                                      | C                                      | D                                    | J                                    |
|--------------------------------------|--|--|--------------------------------------|--------------------------------------|
| Bolt Circle                          | 8"-11" Slotted (203mm-279mm)           | 9"-11" Slotted (229mm-279mm)           | 9"-11" Slotted (229mm-279mm)         | 12" Slotted (305mm)                  |
| Anchor Bolt Size                     | 3/4" x 24" (19mm x 609mm)              | 3/4" x 24" (19mm x 609mm)              | 1" x 30" (25mm x 762mm)              | 1" x 30" (25mm x 762mm)              |
| Anchor Bolt Projection               | 3-1/4" (83mm)                          | 3-1/4" (83mm)                          | 4" (102mm)                           | 4" (102mm)                           |
| Base Plate Opening for Wireway Entry | 3-3/4" (92mm)                          | 4-3/4" (121mm)                         | 4-5/8" (117mm)                       | 5-5/8" (143mm)                       |
| Base Plate Dimensions                | 10-1/8" sq. x 3/4" thk. (257mm x 19mm) | 10-1/8" sq. x 3/4" thk. (257mm x 19mm) | 10-1/8" sq. x 1" thk. (257mm x 25mm) | 12" sq. x 1-1/8" thk. (305mm x 29mm) |
| Pole Gauge                           | 11                                     | 11                                     | 7                                    | 7                                    |

Note: Base plate illustrations may change without notice. Do not use for setting anchor bolts. Consult factory for the appropriate anchor bolt template.

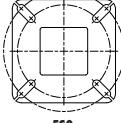
### UNIVERSAL BASEPLATE

4" (102mm) square  
10.5" (267mm) sq.



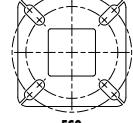
4SQ

5" (127mm) square  
11.125" (283mm) sq.



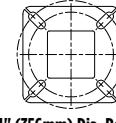
5SQ

5" (127mm) square  
11.75" (298mm) sq.



5SQ

6" (152mm) square  
12-1/2" (318mm) sq.



14" (356mm) Dia. Bolt Circle

| Bolt Circle Designator               | E  | F  | G                                      | H  |
|--------------------------------------|--|--|--|--|
| Bolt Circle                          | Slotted 9"-12"                           | Slotted 10-13"                           | Slotted 10-13"                         | Slotted 11"-14" (279mm-356mm)            |
| Anchor Bolt Size                     | 3/4" x 24" (19mm x 609 mm)               | 3/4" x 24" (19mm x 609 mm)               | 1" x 30" (25mm x 762mm)                | 1" x 30" (25mm x 762mm)                  |
| Anchor Bolt Projection               | 3-1/4" (83 mm)                           | 3-1/4" (83 mm)                           | 4" (102 mm)                            | 4" (102mm)                               |
| Base Plate Opening for Wireway Entry | 3-3/4" (92mm)                            | 4-3/4" (121mm)                           | 4-5/8" (113 mm)                        | 5-5/8" (143mm)                           |
| Base Plate Dimensions                | 10-1/2" sq. x 3/4" thk. (267 mm x 19 mm) | 11-1/8" sq. x 3/4" thk. (283 mm x 19 mm) | 11-3/4" sq. x 1" thk. (298 mm x 25 mm) | 12 1/2" sq. x 1 1/8" thk. (318mm x 29mm) |
| Pole Gauge                           | 11                                       | 11                                       | 7                                      | 7  |

Note: Base plate illustrations may change without notice. Do not use for setting anchor bolts. Consult factory for the appropriate anchor bolt template.

1- Full Galvanized option is 1" x 30" straight headed anchor bolt. Contact factory for questions



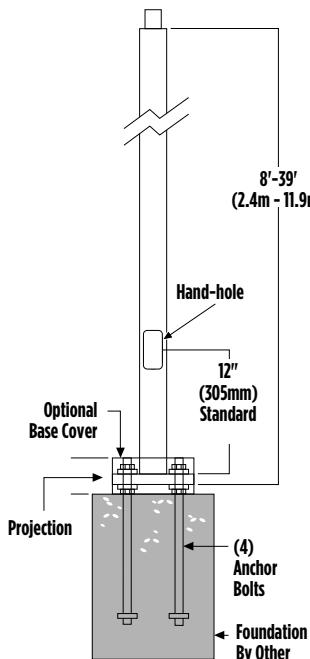
# Steel Poles Square Straight

Have questions? Call us at (800) 436-7800

Type : \_\_\_\_\_

## PRODUCT DIMENSIONS

SOT -  
N=2-3/8" (60mm) O.D. x 4-3/4" (121mm) Tenon

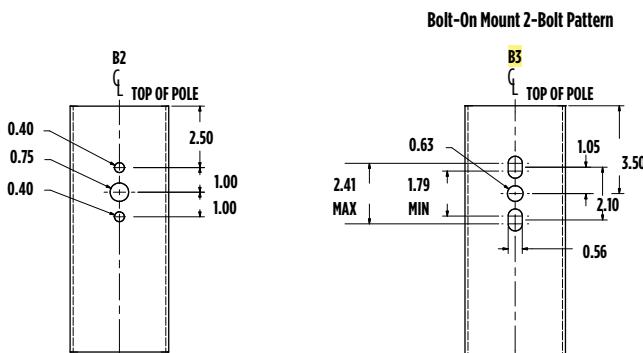


SF -  
Single Flood  
Pole Preparation

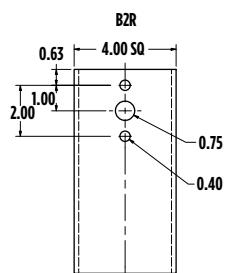


### SHIPPING WEIGHTS

|  |                    |
|--|--------------------|
| 4"(102mm) sq. 11 Ga. is approximately    | 7.50 lbs./ft.      |
| 4"(102mm) sq. 07 Ga. is approximately    | 10.00 lbs./ft.     |
| 5"(127mm) sq. 11 Ga. is approximately    | 9.00 lbs./ft.      |
| 5"(127mm) sq. 07 Ga. is approximately    | 12.50 lbs./ft.     |
| 6"(152mm) sq. 07 Ga. is approximately    | 15.40 lbs./ft.     |
| Anchor Bolts (3/4" x 24") (19mm x 609mm) | 15 lbs. (7kg)/set  |
| Anchor Bolts (1" x 30") (25mm x 762mm)   | 30 lbs. (14kg)/set |



ONLY FOR USE WITH LAL4 PRODUCT  
B2R- Raised 2" low profile drilling pattern



# Steel Poles Square Straight

 Have questions? Call us at (800) 436-7800

Type : \_\_\_\_\_

## WIND SPEED

### EPA Information

All LSI Industries' poles are guaranteed to meet the EPA requirements listed. LSI Industries is not responsible if a pole order has a lower EPA rating than the indicated wind-loading zone where the pole will be located.

CAUTION: This guarantee does not apply if the pole/bracket/fixture combination is used to support any other items such as flags, pennants, or signs, which would add stress to the pole. LSI Industries cannot accept responsibility for harm or damage caused in these situations.

NOTE: Pole calculations include a 1.3 gust factor over steady wind velocity. Example: poles designed to withstand 80 MPH steady wind will withstand gusts to 104 MPH. EPAs are for locations 100 miles away from hurricane ocean lines. Consult LSI for other areas. Note: Hurricane ocean lines are the Atlantic and Gulf of Mexico coastal areas. For applications in Florida or Canada, consult factory.

| POLE <sup>1</sup>           | Mtg. Height Length (ft) | Wall Thick (ga) | BOLT CIRCLE |           |                      | EPA     |         |         |         |         |         |         |         |         |
|-----------------------------|-------------------------|-----------------|-------------|-----------|----------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|                             |                         |                 | Designator  | Dia. (in) | Anchor bolt Dia {in} | 110 MPH | 115 MPH | 120 MPH | 130 MPH | 140 MPH | 150 MPH | 160 MPH | 170 MPH | 180 MPH |
| 4" x 11-ga x 12'            | 12                      | 11              | B           | 8" - 11"  | 0.75                 | 13.9    | 12.5    | 11.3    | 9.2     | 7.6     | 6.3     | 5.2     | 4.3     | 3.6     |
| 4" x 11-ga x 14'            | 14                      | 11              | B           | 8" - 11"  | 0.75                 | 10.7    | 9.5     | 8.5     | 6.8     | 5.4     | 4.4     | 3.5     | 2.7     | 2.1     |
| 4" x 11-ga x 16'            | 16                      | 11              | B           | 8" - 11"  | 0.75                 | 8.2     | 7.2     | 6.4     | 4.9     | 3.8     | 2.9     | 2.1     | 1.5     | 1.0     |
| 4" x 11-ga x 18'            | 18                      | 11              | B           | 8" - 11"  | 0.75                 | 6.3     | 5.4     | 4.7     | 3.4     | 2.4     | 1.6     | 1.0     | 0.4     | n/a     |
| 4" x 11-ga x 20'            | 20                      | 11              | B           | 8" - 11"  | 0.75                 | 4.6     | 3.9     | 3.2     | 2.1     | 1.2     | 0.6     | n/a     | n/a     | n/a     |
| 4" x 11-ga x 22'            | 22                      | 11              | B           | 8" - 11"  | 0.75                 | 7.6     | 6.6     | 5.7     | 4.2     | 3.0     | 2.0     | 1.2     | 0.5     | n/a     |
| 4" x 11-ga x 24'            | 24                      | 11              | B           | 8" - 11"  | 0.75                 | 6.0     | 5.1     | 4.3     | 2.9     | 1.8     | 0.9     | n/a     | n/a     | n/a     |
| 4" x 11-ga x 26'            | 26                      | 11              | B           | 8" - 11"  | 0.75                 | 4.6     | 3.7     | 3.0     | 1.7     | 0.7     | n/a     | n/a     | n/a     | n/a     |
| 4" x 7-ga x 14'             | 14                      | 7               | B           | 8" - 11"  | 0.75                 | 18.3    | 16.4    | 14.9    | 12.2    | 10.2    | 8.5     | 7.1     | 5.9     | 5.0     |
| 4" x 7-ga x 16'             | 16                      | 7               | B           | 8" - 11"  | 0.75                 | 14.7    | 13.2    | 11.8    | 9.6     | 7.8     | 6.3     | 5.2     | 4.2     | 3.4     |
| 4" x 7-ga x 18'             | 18                      | 7               | B           | 8" - 11"  | 0.75                 | 11.9    | 10.5    | 9.3     | 7.4     | 5.9     | 4.6     | 3.6     | 2.8     | 2.1     |
| 4" x 7-ga x 20'             | 20                      | 7               | B           | 8" - 11"  | 0.75                 | 9.6     | 8.4     | 7.4     | 5.7     | 4.3     | 3.2     | 2.3     | 1.6     | 0.9     |
| 4" x 7-ga x 22'             | 22                      | 7               | B           | 8" - 11"  | 0.75                 | 7.7     | 6.6     | 5.7     | 4.2     | 3.0     | 2.0     | 1.2     | 0.5     | n/a     |
| 4" x 7-ga x 24'             | 24                      | 7               | B           | 8" - 11"  | 0.75                 | 6.0     | 5.1     | 4.3     | 2.9     | 1.8     | 0.9     | n/a     | n/a     | n/a     |
| 4" x 7-ga x 26'             | 26                      | 7               | B           | 8" - 11"  | 0.75                 | 4.6     | 3.7     | 3.0     | 1.7     | 0.7     | n/a     | n/a     | n/a     | n/a     |
| 4" x 7-ga x 28 <sup>2</sup> | 28                      | 7               | B           | 8" - 11"  | 0.75                 | 3.3     | 2.5     | 1.8     | 0.7     | n/a     | n/a     | n/a     | n/a     | n/a     |
| 4" x 7-ga x 30 <sup>2</sup> | 30                      | 7               | B           | 8" - 11"  | 0.75                 | 2.2     | 1.4     | 0.8     | n/a     | n/a     | n/a     | n/a     | n/a     | n/a     |
| 5" x 11-ga x 14'            | 14                      | 11              | C           | 9" - 11"  | 0.75                 | 17.4    | 15.7    | 14.1    | 11.5    | 9.3     | 7.7     | 6.3     | 5.2     | 4.2     |
| 5" x 11-ga x 16'            | 16                      | 11              | C           | 9" - 11"  | 0.75                 | 13.8    | 12.3    | 10.9    | 8.7     | 6.9     | 5.5     | 4.3     | 3.3     | 2.5     |
| 5" x 11-ga x 18'            | 18                      | 11              | C           | 9" - 11"  | 0.75                 | 10.8    | 9.6     | 8.4     | 6.5     | 4.9     | 3.7     | 2.6     | 1.8     | 1.1     |
| 5" x 11-ga x 20'            | 20                      | 11              | C           | 9" - 11"  | 0.75                 | 8.5     | 7.3     | 6.3     | 4.6     | 3.2     | 2.1     | 1.2     | 0.5     | n/a     |
| 5" x 11-ga x 22'            | 22                      | 11              | C           | 9" - 11"  | 0.75                 | 10.9    | 9.5     | 8.3     | 6.2     | 4.5     | 3.2     | 2.1     | 1.2     | 0.5     |
| 5" x 11-ga x 24'            | 24                      | 11              | C           | 9" - 11"  | 0.75                 | 8.8     | 7.5     | 6.4     | 4.5     | 3.0     | 1.8     | 0.8     | n/a     | n/a     |
| 5" x 11-ga x 26'            | 26                      | 11              | C           | 9" - 11"  | 0.75                 | 6.8     | 5.7     | 4.6     | 3.0     | 1.6     | 0.6     | n/a     | n/a     | n/a     |
| 5" x 11-ga x 28'            | 28                      | 11              | C           | 9" - 11"  | 0.75                 | 5.2     | 4.1     | 3.2     | 1.6     | 0.4     | n/a     | n/a     | n/a     | n/a     |
| 5" x 11-ga x 30'            | 30                      | 11              | C           | 9" - 11"  | 0.75                 | 3.6     | 2.7     | 1.8     | 0.4     | n/a     | n/a     | n/a     | n/a     | n/a     |
| 5" x 7-ga x 20'             | 20                      | 7               | D           | 9" - 11"  | 1.00                 | 21.6    | 19.3    | 17.3    | 14.0    | 11.3    | 9.2     | 7.4     | 6.0     | 4.8     |
| 5" x 7-ga x 22'             | 22                      | 7               | D           | 9" - 11"  | 1.00                 | 20.7    | 18.6    | 16.6    | 13.3    | 10.7    | 8.5     | 6.8     | 5.4     | 4.2     |
| 5" x 7-ga x 24'             | 24                      | 7               | D           | 9" - 11"  | 1.00                 | 17.7    | 15.6    | 13.8    | 10.8    | 8.5     | 6.6     | 5.0     | 3.7     | 2.6     |
| 5" x 7-ga x 26'             | 26                      | 7               | D           | 9" - 11"  | 1.00                 | 14.9    | 13.1    | 11.4    | 8.8     | 6.6     | 4.9     | 3.5     | 2.3     | 1.3     |
| 5" x 7-ga x 28'             | 28                      | 7               | D           | 9" - 11"  | 1.00                 | 12.5    | 10.9    | 9.4     | 6.9     | 4.9     | 3.4     | 2.1     | 1.0     | n/a     |
| 5" x 7-ga x 30'             | 30                      | 7               | D           | 9" - 11"  | 1.00                 | 10.3    | 8.9     | 7.5     | 5.2     | 3.4     | 2.0     | 0.8     | n/a     | n/a     |
| 5" x 7-ga x 35'             | 35                      | 7               | D           | 9" - 11"  | 1.00                 | 6.0     | 4.8     | 3.6     | 1.8     | n/a     | n/a     | n/a     | n/a     | n/a     |
| 6" x 7-ga x 24'             | 24                      | 7               | J           | 12"       | 1.00                 | 18.6    | 16.4    | 14.3    | 11.2    | 8.6     | 6.5     | 4.8     | 3.4     | 2.2     |
| 6" x 7-ga x 26'             | 26                      | 7               | J           | 12"       | 1.00                 | 15.6    | 13.4    | 11.7    | 8.8     | 6.5     | 4.6     | 3.0     | 1.8     | 0.7     |
| 6" x 7-ga x 28'             | 28                      | 7               | J           | 12"       | 1.00                 | 12.9    | 10.9    | 9.3     | 6.7     | 4.6     | 2.8     | 1.5     | n/a     | n/a     |
| 6" x 7-ga x 30'             | 30                      | 7               | J           | 12"       | 1.00                 | 10.4    | 8.8     | 7.3     | 4.8     | 2.9     | 1.3     | n/a     | n/a     | n/a     |
| 6" x 7-ga x 32'             | 32                      | 7               | J           | 12"       | 1.00                 | 8.3     | 6.8     | 5.5     | 3.1     | 1.3     | n/a     | n/a     | n/a     | n/a     |
| 6" x 7-ga x 34'             | 34                      | 7               | J           | 12"       | 1.00                 | 6.5     | 5.0     | 3.7     | 1.6     | n/a     | n/a     | n/a     | n/a     | n/a     |
| 6" x 7-ga x 35'             | 35                      | 7               | J           | 12"       | 1.00                 | 5.5     | 4.2     | 2.9     | 0.9     | n/a     | n/a     | n/a     | n/a     | n/a     |
| 6" x 7-ga x 39'             | 39                      | 7               | J           | 12"       | 1.00                 | 2.3     | 1.0     | n/a     |



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# Steel Poles Square Straight

Have questions? Call us at (800) 436-7800

Type : \_\_\_\_\_

## WIND SPEED

| POLE <sup>1</sup> | Mtg. Height Length (ft) | Wall Thick (ga) | BOLT CIRCLE |           |                      | EPA     |         |         |         |         |         |         |         |         |
|-------------------|-------------------------|-----------------|-------------|-----------|----------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|                   |                         |                 | Designator  | Dia. (in) | Anchor Bolt Dia (in) | 110 MPH | 115 MPH | 120 MPH | 130 MPH | 140 MPH | 150 MPH | 160 MPH | 170 MPH | 180 MPH |
| 5" x 11-ga x 14'  | 14                      | 11              | F           | 11"       | 0.75                 | 17.6    | 15.8    | 14.2    | 11.5    | 9.4     | 7.7     | 6.3     | 5.2     | 4.3     |
| 5" x 11-ga x 14'  | 14                      | 11              | F           | 13"       | 0.75                 | 17.6    | 15.8    | 14.2    | 11.5    | 9.4     | 7.7     | 6.3     | 5.2     | 4.3     |
| 5" x 11-ga x 16'  | 16                      | 11              | F           | 11"       | 0.75                 | 13.9    | 12.2    | 11.0    | 8.8     | 7.0     | 5.5     | 4.3     | 3.4     | 2.5     |
| 5" x 11-ga x 16'  | 16                      | 11              | F           | 13"       | 0.75                 | 13.9    | 12.2    | 11.0    | 8.8     | 7.0     | 5.5     | 4.3     | 3.4     | 2.5     |
| 5" x 11-ga x 18'  | 18                      | 11              | F           | 11"       | 0.75                 | 11.0    | 9.6     | 8.4     | 6.5     | 5.0     | 3.7     | 2.7     | 1.8     | 1.1     |
| 5" x 11-ga x 18'  | 18                      | 11              | F           | 13"       | 0.75                 | 11.0    | 9.6     | 8.4     | 6.5     | 5.0     | 3.7     | 2.7     | 1.8     | 1.1     |
| 5" x 11-ga x 20'  | 20                      | 11              | F           | 11"       | 0.75                 | 8.6     | 7.4     | 6.4     | 4.6     | 3.3     | 2.2     | 1.3     | 0.5     | -       |
| 5" x 11-ga x 20'  | 20                      | 11              | F           | 13"       | 0.75                 | 8.6     | 7.4     | 6.4     | 4.6     | 3.3     | 2.2     | 1.3     | 0.5     | -       |
| 5" x 11-ga x 22'  | 22                      | 11              | F           | 11"       | 0.75                 | 12.7    | 11.1    | 9.6     | 7.4     | 5.6     | 4.1     | 3.0     | 2.0     | 1.1     |
| 5" x 11-ga x 22'  | 22                      | 11              | F           | 12"       | 0.75                 | 10.3    | 8.9     | 7.7     | 5.7     | 4.1     | 2.8     | 1.8     | 0.9     | -       |
| 5" x 11-ga x 22'  | 22                      | 11              | F           | 13"       | 0.75                 | 8.6     | 7.4     | 6.4     | 4.6     | 3.1     | 2.0     | 1.1     | -       | -       |
| 5" x 11-ga x 24'  | 24                      | 11              | F           | 11"       | 0.75                 | 10.2    | 8.9     | 7.6     | 5.6     | 4.0     | 2.6     | 1.6     | 0.7     | -       |
| 5" x 11-ga x 24'  | 24                      | 11              | F           | 12"       | 0.75                 | 8.0     | 6.9     | 5.8     | 4.0     | 2.6     | 1.5     | 0.5     | -       | -       |
| 5" x 11-ga x 24'  | 24                      | 11              | F           | 13"       | 0.75                 | 6.7     | 5.5     | 4.6     | 3.0     | 1.7     | 0.7     | -       | -       | -       |
| 5" x 11-ga x 26'  | 26                      | 11              | F           | 11"       | 0.75                 | 8.1     | 6.9     | 5.8     | 4.0     | 2.5     | 1.3     | -       | -       | -       |
| 5" x 11-ga x 26'  | 26                      | 11              | F           | 12"       | 0.75                 | 6.2     | 5.1     | 4.1     | 2.6     | 1.3     | -       | -       | -       | -       |
| 5" x 11-ga x 26'  | 26                      | 11              | F           | 13"       | 0.75                 | 5.0     | 4.0     | 3.1     | 1.6     | 0.5     | -       | -       | -       | -       |
| 5" x 11-ga x 28'  | 28                      | 11              | F           | 11"       | 0.75                 | 6.3     | 5.2     | 4.3     | 2.5     | 1.1     | -       | -       | -       | -       |
| 5" x 11-ga x 28'  | 28                      | 11              | F           | 12"       | 0.75                 | 4.6     | 3.6     | 2.7     | 1.2     | -       | -       | -       | -       | -       |
| 5" x 11-ga x 28'  | 28                      | 11              | F           | 13"       | 0.75                 | 3.4     | 2.5     | 1.7     | -       | -       | -       | -       | -       | -       |
| 5" x 11-ga x 30'  | 30                      | 11              | F           | 11"       | 0.75                 | 4.7     | 3.7     | 2.8     | 1.2     | -       | -       | -       | -       | -       |
| 5" x 11-ga x 30'  | 30                      | 11              | F           | 12"       | 0.75                 | 3.1     | 2.2     | 1.4     | -       | -       | -       | -       | -       | -       |
| 5" x 11-ga x 30'  | 30                      | 11              | F           | 13"       | 0.75                 | 2.0     | 1.2     | 0.5     | -       | -       | -       | -       | -       | -       |
| 5" x 7-ga x 20'   | 20                      | 7               | G           | 11"       | 0.75                 | 19.0    | 17.0    | 15.0    | 12.2    | 9.7     | 7.8     | 6.2     | 5.0     | 3.8     |
| 5" x 7-ga x 20'   | 20                      | 7               | G           | 12"       | 0.75                 | 21.4    | 19.1    | 17.1    | 13.8    | 11.2    | 9.1     | 7.3     | 5.9     | 4.7     |
| 5" x 7-ga x 20'   | 20                      | 7               | G           | 13"       | 0.75                 | 21.4    | 19.2    | 17.2    | 13.9    | 11.3    | 9.2     | 7.4     | 6.0     | 4.8     |
| 5" x 7-ga x 20'   | 20                      | 7               | G           | 11"       | 1                    | 21.7    | 19.4    | 17.4    | 14.0    | 11.4    | 9.3     | 7.5     | 6.0     | 4.8     |
| 5" x 7-ga x 20'   | 20                      | 7               | G           | 13"       | 1                    | 21.7    | 19.4    | 17.4    | 14.0    | 11.4    | 9.3     | 7.5     | 6.0     | 4.8     |
| 5" x 7-ga x 22'   | 22                      | 7               | G           | 11"       | 0.75                 | 16.0    | 14.1    | 12.5    | 9.8     | 7.6     | 5.9     | 4.4     | 3.3     | 2.3     |
| 5" x 7-ga x 22'   | 22                      | 7               | G           | 12"       | 0.75                 | 17.7    | 15.9    | 14.2    | 11.2    | 8.7     | 7.0     | 5.4     | 4.1     | 3.0     |
| 5" x 7-ga x 22'   | 22                      | 7               | G           | 13"       | 0.75                 | 19.9    | 17.3    | 15.6    | 12.6    | 10.0    | 8.0     | 6.3     | 5.0     | 3.8     |
| 5" x 7-ga x 22'   | 22                      | 7               | G           | 11"       | 1                    | 21.0    | 18.7    | 16.7    | 13.4    | 10.6    | 8.5     | 6.8     | 5.4     | 4.2     |
| 5" x 7-ga x 22'   | 22                      | 7               | G           | 12"       | 1                    | 23.4    | 20.6    | 18.4    | 15.0    | 12.2    | 9.9     | 8.0     | 6.4     | 5.1     |
| 5" x 7-ga x 22'   | 22                      | 7               | G           | 13"       | 1                    | 21.3    | 18.8    | 17.0    | 13.7    | 11.0    | 8.8     | 7.0     | 5.6     | 4.3     |
| 5" x 7-ga x 24'   | 24                      | 7               | G           | 11"       | 0.75                 | 13.3    | 11.6    | 10.0    | 7.7     | 5.7     | 4.2     | 2.9     | 1.9     | 1.0     |
| 5" x 7-ga x 24'   | 24                      | 7               | G           | 12"       | 0.75                 | 15.0    | 13.0    | 11.6    | 8.9     | 6.8     | 5.1     | 3.8     | 2.6     | 1.7     |
| 5" x 7-ga x 24'   | 24                      | 7               | G           | 13"       | 0.75                 | 16.6    | 14.6    | 12.9    | 10.2    | 8.0     | 6.1     | 4.6     | 3.3     | 2.3     |
| 5" x 7-ga x 24'   | 24                      | 7               | G           | 11"       | 1                    | 17.5    | 15.7    | 13.9    | 10.9    | 8.6     | 6.7     | 5.0     | 3.7     | 2.7     |
| 5" x 7-ga x 24'   | 24                      | 7               | G           | 12"       | 1                    | 20.0    | 17.4    | 15.4    | 12.3    | 9.9     | 7.8     | 6.0     | 4.7     | 3.5     |
| 5" x 7-ga x 24'   | 24                      | 7               | G           | 13"       | 1                    | 18.1    | 16.0    | 14.2    | 11.0    | 8.7     | 6.7     | 5.3     | 3.9     | 2.8     |
| 5" x 7-ga x 26'   | 26                      | 7               | G           | 11"       | 0.75                 | 10.9    | 9.3     | 8.0     | 5.9     | 4.1     | 2.7     | 1.6     | 0.6     | -       |
| 5" x 7-ga x 26'   | 26                      | 7               | G           | 12"       | 0.75                 | 12.4    | 10.9    | 9.5     | 7.0     | 5.1     | 3.6     | 2.3     | 1.3     | -       |
| 5" x 7-ga x 26'   | 26                      | 7               | G           | 13"       | 0.75                 | 14.0    | 12.3    | 10.7    | 8.1     | 6.0     | 4.4     | 3.1     | 2.0     | 1.0     |
| 5" x 7-ga x 26'   | 26                      | 7               | G           | 11"       | 1                    | 15.0    | 13.2    | 11.5    | 8.8     | 6.7     | 4.9     | 3.5     | 2.3     | 1.3     |

# Steel Poles Square Straight

 Have questions? Call us at (800) 436-7800

Type : \_\_\_\_\_

## WIND SPEED

| POLE <sup>1</sup> | Mtg. Height Length (ft) | Wall Thick (ga) | BOLT CIRCLE |           |                      | EPA     |         |         |         |         |         |         |         |         |
|-------------------|-------------------------|-----------------|-------------|-----------|----------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|                   |                         |                 | Designator  | Dia. (in) | Anchor Bolt Dia (in) | 110 MPH | 115 MPH | 120 MPH | 130 MPH | 140 MPH | 150 MPH | 160 MPH | 170 MPH | 180 MPH |
| 5" x 7-ga x 26'   | 26                      | 7               | G           | 12"       | 1                    | 17.0    | 14.8    | 13.0    | 10.2    | 7.9     | 6.0     | 4.4     | 3.1     | 2.1     |
| 5" x 7-ga x 26'   | 26                      | 7               | G           | 13"       | 1                    | 15.3    | 13.5    | 11.8    | 9.0     | 6.8     | 5.0     | 3.6     | 2.5     | 1.4     |
| 5" x 7-ga x 28'   | 28                      | 7               | G           | 11"       | 0.75                 | 8.9     | 7.4     | 6.3     | 4.3     | 2.7     | 1.4     | -       | -       | -       |
| 5" x 7-ga x 28'   | 28                      | 7               | G           | 12"       | 0.75                 | 10.2    | 8.8     | 7.5     | 5.3     | 3.5     | 2.1     | 1.0     | -       | -       |
| 5" x 7-ga x 28'   | 28                      | 7               | G           | 13"       | 0.75                 | 11.8    | 10.2    | 8.8     | 6.4     | 4.5     | 3.0     | 1.7     | 0.7     | -       |
| 5" x 7-ga x 28'   | 28                      | 7               | G           | 11"       | 1                    | 12.5    | 10.9    | 9.5     | 7.0     | 5.0     | 3.3     | 2.1     | 1.0     | -       |
| 5" x 7-ga x 28'   | 28                      | 7               | G           | 12"       | 1                    | 14.2    | 12.4    | 11.0    | 8.2     | 6.0     | 4.3     | 3.0     | 1.7     | 0.8     |
| 5" x 7-ga x 28'   | 28                      | 7               | G           | 13"       | 1                    | 12.9    | 11.0    | 9.7     | 7.2     | 5.2     | 3.6     | 2.2     | 1.1     | -       |
| 5" x 7-ga x 30'   | 30                      | 7               | G           | 11"       | 0.75                 | 7.0     | 5.8     | 4.7     | 2.8     | 1.3     | -       | -       | -       | -       |
| 5" x 7-ga x 30'   | 30                      | 7               | G           | 12"       | 0.75                 | 8.4     | 7.0     | 5.8     | 3.8     | 2.2     | 0.9     | -       | -       | -       |
| 5" x 7-ga x 30'   | 30                      | 7               | G           | 13"       | 0.75                 | 9.7     | 8.2     | 7.0     | 4.8     | 3.0     | 1.6     | 0.5     | -       | -       |
| 5" x 7-ga x 30'   | 30                      | 7               | G           | 11"       | 1                    | 10.4    | 8.8     | 7.6     | 5.3     | 3.4     | 2.0     | 0.8     | -       | -       |
| 5" x 7-ga x 30'   | 30                      | 7               | G           | 12"       | 1                    | 12.0    | 10.3    | 9.0     | 6.4     | 4.4     | 2.9     | 1.6     | 0.5     | -       |
| 5" x 7-ga x 30'   | 30                      | 7               | G           | 13"       | 1                    | 10.6    | 9.1     | 7.7     | 5.5     | 3.6     | 2.1     | 1.0     | -       | -       |
| 5" x 7-ga x 35'   | 35                      | 7               | G           | 11"       | 0.75                 | 3.2     | 2.2     | 1.2     | -       | -       | -       | -       | -       | -       |
| 5" x 7-ga x 35'   | 35                      | 7               | G           | 12"       | 0.75                 | 4.4     | 3.2     | 2.2     | 0.5     | -       | -       | -       | -       | -       |
| 5" x 7-ga x 35'   | 35                      | 7               | G           | 13"       | 0.75                 | 5.5     | 4.2     | 3.1     | 1.3     | -       | -       | -       | -       | -       |
| 5" x 7-ga x 35'   | 35                      | 7               | G           | 11"       | 1                    | 6.0     | 4.8     | 3.6     | 1.8     | -       | -       | -       | -       | -       |
| 5" x 7-ga x 35'   | 35                      | 7               | G           | 12"       | 1                    | 7.3     | 6.0     | 4.8     | 2.7     | 1.1     | -       | -       | -       | -       |
| 5" x 7-ga x 35'   | 35                      | 7               | G           | 13"       | 1                    | 6.3     | 5.0     | 3.8     | 1.9     | -       | -       | -       | -       | -       |
| 6" x 7-ga x 24'   | 24                      | 7               | H           | 11"       | 1                    | 16.5    | 14.4    | 12.6    | 9.6     | 7.2     | 5.3     | 3.8     | 2.5     | 1.4     |
| 6" x 7-ga x 24'   | 24                      | 7               | H           | 12-1/2"   | 1                    | 19.8    | 17.5    | 15.4    | 12.0    | 9.2     | 7.0     | 5.3     | 3.8     | 2.7     |
| 6" x 7-ga x 24'   | 24                      | 7               | H           | 14"       | 1                    | 23.0    | 20.5    | 18.0    | 14.3    | 11.2    | 8.9     | 6.9     | 5.3     | 3.8     |
| 6" x 7-ga x 26'   | 26                      | 7               | H           | 11"       | 1                    | 13.7    | 11.8    | 10.2    | 7.5     | 5.3     | 3.6     | 2.1     | 1.0     | -       |
| 6" x 7-ga x 26'   | 26                      | 7               | H           | 12-1/2"   | 1                    | 16.5    | 14.6    | 12.6    | 9.6     | 7.0     | 5.2     | 3.6     | 2.2     | 1.1     |
| 6" x 7-ga x 26'   | 26                      | 7               | H           | 14"       | 1                    | 19.6    | 17.3    | 15.2    | 11.7    | 8.9     | 6.7     | 5.0     | 3.5     | 2.2     |
| 6" x 7-ga x 28'   | 28                      | 7               | H           | 11"       | 1                    | 11.0    | 9.3     | 7.8     | 5.5     | 3.5     | 1.9     | 0.6     | -       | -       |
| 6" x 7-ga x 28'   | 28                      | 7               | H           | 12-1/2"   | 1                    | 13.8    | 12.0    | 10.2    | 7.5     | 5.2     | 3.4     | 1.9     | 0.7     | -       |
| 6" x 7-ga x 28'   | 28                      | 7               | H           | 14"       | 1                    | 16.4    | 14.5    | 12.5    | 9.4     | 6.9     | 4.7     | 3.2     | 1.8     | 0.7     |
| 6" x 7-ga x 30'   | 30                      | 7               | H           | 11"       | 1                    | 9.0     | 7.3     | 6.0     | 3.6     | 1.9     | 0.5     | -       | -       | -       |
| 6" x 7-ga x 30'   | 30                      | 7               | H           | 12-1/2"   | 1                    | 11.4    | 9.6     | 8.0     | 5.5     | 3.4     | 1.7     | -       | -       | -       |
| 6" x 7-ga x 30'   | 30                      | 7               | H           | 14"       | 1                    | 14.0    | 12.0    | 10.0    | 7.2     | 5.0     | 3.2     | 1.6     | -       | -       |
| 6" x 7-ga x 32'   | 32                      | 7               | H           | 11"       | 1                    | 7.0     | 5.5     | 4.2     | 2.0     | -       | -       | -       | -       | -       |
| 6" x 7-ga x 32'   | 32                      | 7               | H           | 12-1/2"   | 1                    | 9.2     | 7.6     | 6.0     | 3.8     | 1.8     | -       | -       | -       | -       |
| 6" x 7-ga x 32'   | 32                      | 7               | H           | 14"       | 1                    | 11.4    | 9.7     | 8.0     | 5.4     | 3.2     | 1.6     | -       | -       | -       |
| 6" x 7-ga x 34'   | 34                      | 7               | H           | 11"       | 1                    | 5.1     | 3.7     | 2.5     | 0.6     | -       | -       | -       | -       | -       |
| 6" x 7-ga x 34'   | 34                      | 7               | H           | 12-1/2"   | 1                    | 7.2     | 5.6     | 4.4     | 2.2     | -       | -       | -       | -       | -       |
| 6" x 7-ga x 34'   | 34                      | 7               | H           | 14"       | 1                    | 9.3     | 7.6     | 6.2     | 3.6     | 1.7     | -       | -       | -       | -       |
| 6" x 7-ga x 35'   | 35                      | 7               | H           | 11"       | 1                    | 4.2     | 3.0     | 1.8     | -       | -       | -       | -       | -       | -       |
| 6" x 7-ga x 35'   | 35                      | 7               | H           | 12-1/2"   | 1                    | 6.2     | 4.8     | 3.6     | 1.4     | -       | -       | -       | -       | -       |
| 6" x 7-ga x 35'   | 35                      | 7               | H           | 14"       | 1                    | 8.2     | 6.6     | 5.2     | 2.9     | 1.0     | -       | -       | -       | -       |
| 6" x 7-ga x 39'   | 39                      | 7               | H           | 11"       | 1                    | 1.0     | -       | -       | -       | -       | -       | -       | -       | -       |
| 6" x 7-ga x 39'   | 39                      | 7               | H           | 12-1/2"   | 1                    | 3.0     | 1.6     | 0.5     | -       | -       | -       | -       | -       | -       |
| 6" x 7-ga x 39'   | 39                      | 7               | H           | 14"       | 1                    | 4.6     | 3.3     | 2.0     | -       | -       | -       | -       | -       | -       |





# CHECKLIST FOR SITE PLAN SUBMITTALS

City of Rockwall  
Planning and Zoning Department  
385 S. Goliad Street  
Rockwall, Texas 75087

CASE NUMBER:

REVIEWED BY:

OVERLAY DISTRICT:

REVIEW DATE:

## 1.1 GENERAL INFORMATION FOR ALL PLANS SUBMITTED

| Requirements  | ✓ = OK                              | N/A                                 | Comments   | UDC Reference        |
|---|-------------------------------------|-------------------------------------|--|----------------------|
| Items Necessary for Site Plan Review:                                     |                                     |                                     |  | Per Application      |
| ✓ Site Plan   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |  | §03.04. of Art. 11   |
| ✓ Landscape Plan  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |  | -                    |
| ✓ Treescapes Plan   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |  | -                    |
| ✓ Photometric Plan  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |  | -                    |
| ✓ Building Elevations   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |  | -                    |
| Building Material Sample Board and Color Rendering of Building Elevations | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | If required the sample board should detail all building materials, with each material clearly labeled and indicating manufacturer info, color, etc. Check with Planning Staff to see which is appropriate for the submitted project. | §03.04.A. of Art. 11 |
| Submittal Requirements  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Four (4) large (24" x 36") <b>folded</b> copies and one (1) PDF digital copy of each plan is required at the time of submittal.  | §03.04.A. of Art. 11 |
| Is the property properly platted?   | REPLAT REQD                         | <input checked="" type="checkbox"/> | <input type="checkbox"/> Indicate if the property has been properly platted.   | -                    |
| Title Block<br>(Project Name, Legal Description and/or Address)           | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | The title block is to be located in the lower right-hand corner of all sheets and contain the project name, street address, and/or the lot and block designation.  | §03.04.A. of Art. 11 |
| Case Number   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | The case number should be placed in the lower right-hand corner below the title block of all sheets.   | §03.04.A. of Art. 11 |
| Owners<br>(Name, Address, and Phone Number)                               | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | The owners name, address, and phone number are required to be in the lower right-hand corner left of the title block.  | §03.04.A. of Art. 11 |
| Developer<br>(Name, Address, and Phone Number)                            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | The name, address, and phone number of the person or company that prepared the plans are required in the lower right-hand corner left of the title block.  | §03.04.A. of Art. 11 |
| North Point   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | The north point or north arrow must be facing true north (or straight up) on all plans, unless the scale of the drawings or scope of the project requires a different position.  | §03.04.A. of Art. 11 |
| Numeric and Graphic Scale   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | The recommended engineering scales are 1" = 20', 1" = 40', etc. ... with a maximum of 1" = 100'.   | §03.04.A. of Art. 11 |
| Vicinity Map  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | The vicinity map should locate the site relative to the nearest major roadways in a one-half mile radius.  | §03.04.A. of Art. 11 |
| Signature Block   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Standard signature block with signature space for the Planning & Zoning Chairman and Planning Director.  | §03.04.A. of Art. 11 |
| Date  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | The date that the plans were prepared is required on all submittals.   | §03.04.A. of Art. 11 |
| Proposed Land Use:  |                                     |                                     | Indicate the proposed use for this site. Additionally, indicate the proposed use for all structures.   | §03.04.A. of Art. 11 |
| ✓ Commercial  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Land Uses Permitted in the RO, NS, GR, C, DT, RC & Designated Planned Development District Ordinances.   | -                    |
| ✓ Industrial  | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | Land Uses Permitted in the RT, LI, HI & Designated Planned Development District Ordinances.  | -                    |

## 2.1 SITE PLAN: MISCELLANEOUS AND DENSITY & DIMENSIONAL INFORMATION

| Requirements   | ✓ = OK                              | N/A                      | Comments   | UDC Reference        |
|--|-------------------------------------|--------------------------|--|----------------------|
| Total Lot or Site Area<br>(Acreage and Square Footage) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | If the site is part of a larger tract include a key map showing the entire tract of land and the location of the site being planned. | §03.04.B. of Art. 11 |

|   |                                     |                                     |  |                       |
|---|-------------------------------------|-------------------------------------|--|-----------------------|
| Perimeter Dimensions of the Site              | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Indicate the perimeter dimensions of the site in feet.   | \$03.04.B, of Art. 11 |
| Buildings (Square Footage)                    | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Indicate the location and total square footage of all existing and planned buildings on the site.  | \$03.04.B, of Art. 11 |
| Perimeter Dimensions of all Buildings         | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Indicate the wall lengths of all buildings on the site.  | \$03.04.B, of Art. 11 |
| Distance Between Buildings                    | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | Indicate the distance between all existing and planned buildings located on the site.  | \$03.04.B, of Art. 11 |
| Distance Between Buildings and Property Lines | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Indicate the distance between all property lines and existing and planned buildings located on the site.   | \$03.04.B, of Art. 11 |
| Indicate all Property Lines                   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Indicate all existing property lines. If the site plan requires a platting case that will alter the property lines show the proposed changes in a different line weight. | \$03.04.B, of Art. 11 |
| Indicate all Building Setbacks                | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Indicate all building setbacks adjacent to right-of-way.   | \$03.04.B, of Art. 11 |
| Indicate all Easements                        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Additionally, indicate all utilities both existing and proposed.   | \$03.04.B, of Art. 11 |
| Indicate all Drive/Turning Radii              | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |  | \$03.04.B, of Art. 11 |
| Indicate all Drive Widths                     | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |  | \$03.04.B, of Art. 11 |
| Indicate all Fire Lanes                       | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Indicate and label the widths of all fire lanes existing and proposed for the site.  | \$03.04.B, of Art. 11 |
| Indicate location of all Fire Hydrants        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |  | \$03.04.B, of Art. 11 |
| Indicate all Sidewalks                        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Indicate and label the widths of all sidewalks existing and proposed for the site.   | \$03.04.B, of Art. 11 |
| Adjacent Street Right-Of-Way                  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Reference the City's Master Transportation Plan for right-of-way information.  | \$03.04.B, of Art. 11 |
| Label all Adjacent Street Name                | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Label all adjacent existing and proposed street names.   | \$03.04.B, of Art. 11 |
| Adjacent Street Centerlines                   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Indicate the street centerline for all existing and proposed streets.  | \$03.04.B, of Art. 11 |
| Median Breaks in Adjacent Streets             | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |  | \$03.04.B, of Art. 11 |

## 2.2 SITE PLAN: PARKING INFORMATION

| Requirements                         | ✓ = OK                              | N/A                                 | Comments   | UDC Reference         |
|--------------------------------------|-------------------------------------|-------------------------------------|--|-----------------------|
| Dimension of a Typical Parking Space | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | See the comment section in Adequate Parking and Maneuvering below.   | \$05.03, of Art. 06   |
| Parking Table                        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Provide parking table indicating the total number of required parking spaces by use, the total number of required handicapped parking spaces and the total parking provided.   | \$05.01, of Art. 06   |
| Handicap Parking Spaces Shown        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |  | \$05.04, of Art. 06   |
| Adequate Parking                     | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Reference Table 3 of Article VI.   | Table 5, Art. 06      |
| Adequate Parking and Maneuvering     | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | All parking spaces and aisle dimensions shall conform to the off-street parking requirements in section 2.19 of the City's Standards of Design and Construction (Check w/ the Engineering Department).   | \$05.03.C, of Art. 06 |
| Adequate Loading Area                | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | Loading spaces shall be a minimum of 12 feet in width, 65 feet in length, and 14 feet in height except as may otherwise be approved by the city engineer (Art. VI 6.5 Loading Requirements).   | \$06.04, of Art. 06   |
| Adequate Loading Maneuvering         | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | It is also the purpose of this Article to require allocation of sufficient off-street/on-site loading facilities by businesses and industry to ensure that the loading and unloading of vehicles will not interfere with traffic flow or block roadways or fire lanes. | \$01.02, of Art. 06   |
| Type and Depth of Paving Material    | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Indicate the type and depth of the paving material and provide a detail or cut-sheet. All required parking and loading areas shall be constructed of concrete, but may have a surface treatment of brick, stone or other similar material.                             | \$03.02, of Art. 06   |

## 2.3 SITE PLAN: SIGNAGE

| Requirements  | ✓ = OK | N/A | Comments | UDC Reference |
|---|--------|-----|----------|---------------|
| <b>NOTE:</b> All signage shall conform to Chapter 32 of the Rockwall Municipal Code of Ordinance, unless otherwise specified in an Overlay District or Planned Development District with specific signage requirements. |        |     |          |               |

|                              |                                     |                          |   |                       |
|------------------------------|-------------------------------------|--------------------------|---|-----------------------|
| Proposed or Existing Signage | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Indicate the location and type of all proposed and/or existing signage on the site plan. Additionally, provide a detail or cut-sheet showing the elevations, lighting and dimensions of the proposed signage. | \$06.02.F, of Art. 05 |
|------------------------------|-------------------------------------|--------------------------|---|-----------------------|

## 2.4 SITE PLAN: SCREENING

| Requirements  | ✓ = OK                              | N/A                                 | Comments  | UDC Reference         |
|---|-------------------------------------|-------------------------------------|---|-----------------------|
| Indicate the Type and Location of any Existing and/or Proposed Fences | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Label the height and type of fence proposed or existing.  | \$08.02.F, of Art. 08 |
| Utility Equipment Screening (Pad or Ground Mounted)                   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Pad mounted utility equipment, and air conditioning units, shall be screened from horizontal view from any adjacent public street and from any adjacent property. Utility equipment and air conditioning units shall be screened utilizing plantings, berms, or walls matching the main structure.  | \$01.05.C, of Art. 05 |
| Utility Equipment Screening (Roof Mounted)                            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | All buildings must be designed such that no roof mounted mechanical equipment, HVAC, or satellite dishes shall be visible from any direction.   | \$01.05.C, of Art. 05 |
| Above Ground Storage Tanks  | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | Aboveground storage tanks shall be screened utilizing walls matching the main structure. Screening plans for above ground storage tanks shall generally conform to the diagram below (i.e. incorporate primary screening – screening wall -- and secondary screening) and be approved by the Planning and Zoning Commission in conjunction with a site plan.  | \$01.05.D, of Art. 05 |
| Dumpster Screening  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Trash/Recycling enclosures shall be four (4) sided. These receptacles shall be screened by a minimum six (6) foot, solid masonry dumpster enclosure that utilizes the same masonry materials as the primary building and incorporates an opaque, self-latching gate. Dumpster storage should be located to the rear of the buildings with proper access. Trash dumpster shall not be located in any required parking space and shall allow proper access by service trucks. The minimum enclosure area shall be 12'x10'. A minimum of 6" bollards will be required at potential impact zones and the pad site shall be paved to city standards. | \$01.05.B, of Art. 05 |
| Outside Storage   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | Off-street loading docks must be screened from all public streets and any residential district that abuts or is directly across a public street or alley from the lot. The screening must be at least six feet in height and may be provided by using a masonry fence, berms, plantings or a combination of the above.  | \$01.05.A, of Art. 05 |
| Residential Adjacency Standards                                       | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | The director may require wing walls, landscape screens, changes in building orientation, and/or other architectural elements to minimize the impact of uses adjacent to residential property within 150 feet (also reference Art. VIII 5.2).  | \$01.06, of Art. 05   |

## 3.1 LANDSCAPE PLAN

| Requirements   | ✓ = OK                              | N/A                      | Comments  | UDC Reference                  |
|--|-------------------------------------|--------------------------|---|--------------------------------|
| Provide Site Data  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Provide the same site data information required in Section 2.1 Site Plan: Miscellaneous and Density and Dimensional Requirements of this checklist.   | See Sec. 2.1 of this checklist |
| Impervious Area vs. Landscape/Open Space Area Provided and Required (As Per Zoning District) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Indicate the applicable zoning district percentage of landscaping required and provided, and the impervious area vs. the amount of landscaping and open spaces required and provided.   | \$01.01.B, of Art. 05          |
| Landscape Table  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Provide a landscape table showing plant materials, quantities, size and spacing for existing and proposed landscaping. Complete description of plant materials shown on the plan, including names, locations, qualities, container or caliper sizes at installation, heights, spread, and spacing requirements should also be listed on the plan. | \$05.03.B, of Art. 08          |
| Indicate all Landscaping   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Indicate the locations of all existing and proposed landscaping.  | \$05.03.B, of Art. 08          |
| Location of Water Courses and Significant Drainage Features                                  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Indicate the locations of all existing and/or proposed water courses and the location of any existing and/or proposed significant drainage features.  | -                              |
| Indicate all Landscape Buffers   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Indicate the locations and dimensions of the required landscape buffers.  | \$05.01, of Art. 08            |

## Acceptable Landscape Materials:

Sec. 04., of  
Art. 08

|   |                                     |                                     |  |  |
|---|-------------------------------------|-------------------------------------|--|--|
| ✓ Trees allowed in Street Landscape Buffers   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Cedar Elm, Texas Red Oak, Homestead Elm, Lace Bark Elm, Bald Cypress, Chinese Pistachio, October Glory Maple, Pecan, Texas Ash, Live Oak, Chinquapin Oak, and Burr Oak (Understory Trees: Texas Redbud, Mexican Plum, Downy Hawthorn, Wax Myrtle, Yaupon, and Deciduous Yaupon)  | Appendix C   |
| ✓ Trees not allowed in Landscape Buffers      | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | Silver Maple, Box Elder, Mimosa, Catalpa, Hackberry, Sugarberry, Honey Locust, Tulip Tree, Chinaberry, Sycamore, Cottonwood, Willows, American Elm, Siberian Elm, Jerusalem Thorn/Petuma, Bois D'Arc, Flowering Crabapple Tree, Ginko Tree, Peach/Plum, Mulberry, Texas Mountain Laurel, Lilac Chaste Tree, and Pine Tree.   | Appendix C   |
| Protected Trees<br>(That Will Remain On-Site) | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | Indicate the location and provide a description by type and size of all existing protected trees (4" or larger) proposed to be retained. Prior to any construction or land development, the developer shall clearly mark all protected and feature trees with an aluminum tag -- indicating the trees relationship to the treescapes plan -- and flag (i.e. bright fluorescent red vinyl tape). In those instances where a protected tree is so close to the construction area that construction equipment could possibly damage the tree, a protective fence shall be required. | \$07.01, of<br>Art. 09   |
| Parking Lot Landscaping                       | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Complete description of landscaping and screening to be provided in or near off-street parking and loading areas, including the information as to the amount (in sq. ft.) of landscape area to be provided internal to parking areas, the total square footage included in the parking area, and the number and location of required off-street parking and loading spaces.  | \$05.03.E, of<br>Art. 08   |
| Location of all Site Amenities                | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | Identify the size, height, location, and material of proposed seating, lighting, planter's sculptures, water features and landscape paving and other public amenities.   | -  |
| Identify Visibility Triangles                 | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Identify visibility triangles on all lots for all driveway intersections and public streets.   | \$01.08, of<br>Art. 05   |
| Landscape Buffer - Street Trees               | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Large trees (a species which normally reaches a height of 30 feet or more upon maturity) shall be provided in the required street landscape buffer in numbers equal to one (1) tree for every 50 feet of street frontage.  | \$05.01, of<br>Art. 08   |
| Tree Locations                                | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Trees must be planted at least five (5) feet from water, sewer and storm sewer lines.  | \$05.03.E, of<br>Art. 08   |
| Irrigation Requirements Note                  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Provide note indicating irrigation will meet requirements of UDC.  | \$05.04, of<br>Art. 08   |
| Hydro mulch (or non-sod option)               | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | The developer shall establish grass and maintain the seeded area, including watering, until a "Permanent Stand of Grass" is obtained at which time the project will be accepted by the City. A "Stand of Grass" shall consist of 75% to 80% coverage and a minimum of one-inch (1") in height as determined by the City.   | Sec. 4.2,<br>Coverage,<br>Engr<br>Standards of<br>Design and<br>Construction |
| Rights-of-Way & Landscape Buffers             | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | All landscape buffers and public right-of-way located adjacent to a proposed development shall be improved with grass (i.e. sod -- hydro mulch shall be prohibited in these areas) prior to the issuance of a Certificate of Occupancy (CO).   | \$05.03.G, of<br>Art. 08   |

**4.1 TREESCAPE PLAN**

| Requirements  | ✓ = OK                   | N/A                                 | Comments  | UDC Reference                        |
|---|--------------------------|-------------------------------------|---|--------------------------------------|
| Provide Site Data   | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Provide the same site data information required in Section 2.1 Site Plan: Miscellaneous and Density and Dimensional Requirements of this checklist. | See Sec. 2.1<br>of this<br>checklist |
| Buildings   | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Indicate the location of all existing or proposed structures, and/or the building pads as shown on the grading plan.                                | \$03.01.A, of<br>Art. 09             |
| Indicate all Site Elevations, Grades, Major Contours and the Limits of Construction | <input type="checkbox"/> | <input checked="" type="checkbox"/> |   | \$03.01.C, of<br>Art. 09             |

|  |                          |                                     |  |                      |
|--|--------------------------|-------------------------------------|--|----------------------|
| Protected Trees<br>(To Remain On Site)           | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Indicate the location and provide a description by type and size of all existing protected trees (4" or larger) proposed to be retained. Such trees shall be marked and a drip line of said tree shall be protected prior to and during all construction, including dirt work. | §03.01.E, of Art. 09 |
| Protected Trees<br>(To be Removed from the Site) | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Indicate the location of all protected trees (4" or larger) that are to be removed from the site and the proposed locations of all replacement trees.  | §03.01.F, of Art. 09 |
| Treescape Table                                  | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Provide a table showing the total inches of trees to be removed and the total inches of trees to be replaced.  | §03.01.G, of Art. 09 |

## 5.1 PHOTOMETRIC AND LIGHTING PLANS

| Requirements   | ✓ = OK                              | N/A                                 | Comments  | UDC Reference                    |
|--|-------------------------------------|-------------------------------------|---|----------------------------------|
| Provide Site Data Table                                      | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | Provide the same site data information required in Section 2.1 <i>Site Plan: Miscellaneous and Density and Dimensional Requirements</i> of this checklist.  | See Sec. 2.1 of this checklist - |
| Indicate Lighting Levels (in Foot Candles [FC])              | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Show lighting levels in foot-candles (FC) measured throughout the site and extended to all property lines of the subject property.  | §03.03, of Art. 07               |
| Adjacent Property with Common Lot Lines:                     |                                     |                                     |   |                                  |
| ✓ Residential Use  | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | The allowable maximum light intensity measured at the property line of a residential property shall be 0.2 of one foot candle.  | §03.03.B, of Art. 07             |
| ✓ Commercial Use   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | The allowable maximum light intensity measured at the property line of a non-residential property shall be 0.2 of one foot candle. <i>Subject to requirements in Art. VII 3.3.C.</i>  | §03.03.C, of Art. 07             |
| Under-Canopy Lighting  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Under canopy lighting (i.e. fuel stations, drive through lanes and covered parking structures) shall not exceed 35 foot candles (with the exception below).   | §03.03.E.1, of Art. 07           |
| Lighting for Motor Vehicle Dealerships                       | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | Shall not exceed 0.3 of one foot candle within the front yard of the development. The remainder will comply with the 0.2 of one foot candle.  | §03.03.E.2, of Art. 07           |
| Lighting in Parking Areas                                    | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | The maximum outdoor maintained, computed and measured illumination level within any nonresidential development shall not exceed 20 FC outdoors at any point on the site, with a maximum of 0.2 FC at the property line. (Exceptions: (1) under canopy lighting and (2) motor vehicle dealerships) | §03.03.G, of Art. 07             |
| Building and Pole Mounted Lighting                           | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Indicate the location and type of all exterior lighting, including pole mounted, wall-mounted, signage, etc.  | §03.03.E, of Art. 07             |
| Indicate the Mounting Height for all Proposed Light Fixtures | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | No light pole, base or combination thereof shall exceed 30 feet, unless further restricted within an Overlay District.  | §03.03.D of Art. 07              |
| Indicate the Wattage of all Light Sources                    | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Provide lighting cut sheets that indicates the wattage for each exterior lighting fixture. Light sources (e.g. light bulbs) shall be oriented down and toward the center of the site or shielded so as to not be visible from the property line.  | §03.03.A, of Art. 07             |
| Proposed Light Fixtures                                      | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Provide elevation drawings and/or cut-sheets of proposed light fixtures on/with photometric plan.   | §03.03, of Art. 07               |

## 6.1 BUILDING ELEVATIONS: NON-INDUSTRIAL

| Requirements   | ✓ = OK                              | N/A                                 | Comments   | UDC Reference        |
|--|-------------------------------------|-------------------------------------|--|----------------------|
| Provide Exterior Elevations  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | North South East West<br>(Circle all that apply)   | -                    |
| Indicate Exterior Elevations Adjacent to Public Right-of-Way                                       | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | North South East West<br>(Circle all that apply)   | -                    |
| Minimum 90% Masonry Requirement<br><b>OVERLAY DISTRICTS ONLY</b>                                   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Exterior walls should consist of 90% masonry materials excluding doors and windows.  | §06.02.C, of Art. 05 |
| Indicate Amount and Location of the Minimum 20% Stone Requirement<br><b>OVERLAY DISTRICTS ONLY</b> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | Applies to facades that are visible from a public right-of-way and/or open space.  | §06.02.C, of Art. 05 |
| Indicate the Surface Area of Each Facade   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Indicate the surface area (square feet) of each facade and the percentage and square footage of each material used on that facade. | §04.01, of Art. 05   |
| Proposed Building Materials  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Specifications and description of all proposed building materials, on all proposed buildings.                                      | §04.01, of Art. 05   |
| Indicate the Roofing Materials and Color   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |  |                      |

|   |                                     |                          |  |                        |
|---|-------------------------------------|--------------------------|--|------------------------|
| Indicate Parapet Wall Height<br>**(If Applicable, finish the interior side of the parapet wall)   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | If applicable indicate the parapet wall by dashing in the top of roof deck. **Projecting elements and parapets that are visible from adjacent properties or public right-of-way shall be finished on the interior side using the same materials as the exterior facing wall.                         | §04.01, of Art. 05     |
| Indicate all Roof Mounted Mechanical Equipment (If Applicable)  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | If applicable indicate any proposed roof mounted mechanical equipment and indicate how these will be screened from view.   | §01.05.C, of Art. 05   |
| Indicate Any Additional Design Elements Proposed (If Applicable)  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Indicate any additional design elements for the base, walls, or parapets (such as cornice, arcades, and covered walkways/windows). Be sure to include the location, size, color, and material of any proposed structure.   |                        |
| Indicate Building Height(s)   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | The height of the building shall be measured from the average elevation of the finished grade along the front of the building to the highest point of the roof or parapet of the building if it is a flat, mansard or shed roof; or to the midpoint of the roof if it is gable, hip or gambrel roof. | §07.03 of Art. 05      |
| Minimum Standards for Articulation:   |                                     |                          |  |                        |
| Primary Facades<br>(i.e. facades visible from a public ROW, open space/green space, public/private park, and or residential zoning district or residentially used property) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 1. Wall Height [H] = H<br>2. Wall Length [L] = 3 x H<br>3. Secondary Entry/Arch. Element Length = 25% x L<br>4. Wall Projection = 25% x H<br>5. Primary Entry/Arch. Element Width = 2 x (25% x L)<br>6. Projection Height = 25% x H<br>7. Primary Entry/Arch. Element Length = 2 x (25% x L)         | §04.01.C.1, of Art. 05 |
| Secondary Facades   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 1. Wall Height [H] = H<br>2. Wall Length [L] = 3 x H<br>3. Secondary Entry/Arch. Element Length = 15% x L<br>4. Secondary Entry/Arch. Element Width = 15% x H<br>5. Projection Height = 15% x H  | §04.01.C.2, of Art. 05 |

## 6.2 BUILDING ELEVATIONS: INDUSTRIAL

| Requirements  | ✓ = OK                   | N/A                                 | Comments  | UDC Reference              |
|---|--------------------------|-------------------------------------|---|----------------------------|
| <b>NOTE:</b> Industrial buildings are subject to all the elements listed in Section 6.1 Building Elevations: Non-Industrial with the exception of the following standards.  |                          |                                     |   |                            |
| Minimum 90% Masonry Requirement   | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Exterior walls should consist of 90% masonry materials excluding doors and windows.   | §05.01.A.1, of Art. 05     |
| Indicate Amount and Location of the Minimum 20% Stone Requirement   | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Applies to facades that are visible from a public right-of-way and/or open space.   | §05.01.A.1.a.1, of Art. 05 |
| Minimum Standards for Articulation:   |                          |                                     |   |                            |
| Primary Facades<br>(i.e. facades visible from a public ROW, open space/green space, public/private park, and or residential zoning district or residentially used property) | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 1. Wall Height [H] = H<br>2. Wall Length [L] = 4 x H<br>3. Wall Projection = 25% x H<br>4. Entry/Arch. Element Length = 33% x L<br>5. Projection Height = 25% x H<br>6. Entry/Arch. Element Width = 2 x (25% x H) | §05.01.C.1, of Art. 05     |
| Secondary Facades   | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 1. Wall Height [H] = H<br>2. Wall Length [L] = 3 x H<br>3. Entry/Arch. Element Length = 15% x L<br>4. Entry/Arch. Element Width = 15% x H<br>5. Projection Height = 15% x H                                       | §05.01.C.2, of Art. 05     |

# PROJECT COMMENTS



CITY OF ROCKWALL  
385 S. GOLIAD STREET  
ROCKWALL, TEXAS 75087  
PHONE: (972) 771-7700

DATE: 9/22/2025

PROJECT NUMBER: SP2025-039  
PROJECT NAME: Site Plan for NWC of Hwy 205 and Future FM 549  
SITE ADDRESS/LOCATIONS: 3480 S. FM 549, Rockwall, TX 75032

CASE CAPTION: Discuss and consider a request by Keaton Mai of the Dimension Group on behalf of Michael Hampton of Creekside Commons Crossing LP for the approval of a Site Plan for a Restaurant with 2,000 SF or More with Drive-Through on a 0.936-acre parcel of land identified as a portion of Lot 18, Block A, Creekside Commons Addition, City of Rockwall, Rockwall County, Texas, zoned Commercial (C) District, generally located east of the intersection of S. Goliad Street [SH-205] and FM-549, and take any action necessary.

| DEPARTMENT | REVIEWER  | DATE OF REVIEW | STATUS OF PROJECT |
|------------|-----------|----------------|-------------------|
| PLANNING   | Henry Lee | 09/22/2025     | Needs Review      |

09/22/2025: Please address the following comments (M= Mandatory Comments; I = Informational Comments)

I.1 This is a request for the approval of a Site Plan for a Restaurant with 2,000 SF or More with Drive-Through on a 0.936-acre parcel of land identified as a portion of Lot 18, Block A, Creekside Commons Addition, City of Rockwall, Rockwall County, Texas, zoned Commercial (C) District, generally located east of the intersection of S. Goliad Street [SH-205] and FM-549.

I.2 For questions or comments concerning this case please contact Henry Lee in the Planning Department at (972) 772-6434 or email [hlee@rockwall.com](mailto:hlee@rockwall.com).

M.3 For reference, include the case number (SP2025-039) in the lower right-hand corner of all pages of all revised plan submittals. (Subsection 01.02(D), Article 11, UDC)

I.4 The subject property will be required to be plat in order to establish the new lot lines and easements.

M.5 Provide the standard signature block with signature space for the Planning and Zoning Chairman and the Planning Director on all pages of the plans. Also remove the red placeholder text from the signature block. (Subsection 03.04. A, of Article 11)

APPROVED:

I hereby certify that the above and foregoing site plan for a development in the City of Rockwall, Texas, was approved by the Planning & Zoning Commission of the City of Rockwall on the \_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_.

WITNESS OUR HANDS, this \_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_.

Planning & Zoning Commission, Chairman

Director of Planning and Zoning

M.6 Site Plan.

- (1) Please indicate the centerline for FM-549. (Subsection 03.04. B, of Article 11, UDC)
- (2) Please provide a sidewalk along FM-549. (Subsection 03.04. B, of Article 11, UDC)

- (3) Please clarify if there will be any proposed fencing. If so, please indicate the location, material, and height. (Subsection 08.02. F, of Article 08, UDC)
- (4) Will there be any ground mounted equipment (this includes transformers)? If so, all ground mounted equipment must be screened with five (5) gallon evergreen shrubs. (Subsection 01.05. C, of Article 05, UDC)
- (5) All roof mounted equipment – including vents – must be fully screened by the parapet. (Subsection 01.05. C, of Article 05, UDC)
- (6) In the callout for the dumpster enclosure, include that the gate must opaque and self-latching. Wood gates are not permitted. As a side note, please understand that the dumpster enclosure may not face onto a public roadway. (Subsection 01.05. B, of Article 05, UDC)
- (7) Please remove all signage from the site plan. Signage is approved through a separate permitting process. (Subsection 06.02. F, of Article 05, UDC)

#### M.7 Landscape Plan.

- (1) All shrubs must be a minimum of five (5) gallon. (Subsection 05.03. B, of Article 08, UDC)
- (2) All parking spaces are required to be within 80-feet of a canopy tree. There may be a conflict with the proposed fire hydrant, so keep this requirement in mind. (Subsection 05.03. E, of Article 08, UDC)
- (3) Please provide shrubs along the drive through lane. (Subsection 05.03. E, of Article 08, UDC)
- (4) Please increase the height of the berm and incorporate additional screening shrubs in front of the drive-through exit. (Subsection 05.03. E, of Article 08, UDC)
- (5) Please indicate the height of the proposed berm and extend the berm further west. (Subsection 05.01, of Article 08, UDC)
- (6) Please provide shrubs along the parking spaces that face onto the cross-access drive to reduce headlight glare. (Subsection 05.03. E, of Article 08, UDC)

#### M.8 Photometric Plan

- (1) To limit the impact of the proposed restaurant and the residential across FM-549, please reduce the FC to 0.0 at the property line adjacent to FM-549. In addition, please further reduce the FC along the west and south west property line, in order to reduce glare onto the internal drive. (Subsection 03.03, of Article 07, UDC)
- (2) Are there any proposed wall packs? If so, please indicate them on the photometric plan and provide the cut sheets. (Subsection 03.03, of Article 07, UDC)

#### M.9 Building Elevations

- (1) Please note that any rear portion of the parapet that is visible from offsite, the parapet must be finished with the same materials as the forward-facing façade. (Subsection 04.01, of Article 05, UDC)
- (2) Please note that all roof mounted equipment -- including vents -- must be fully screened by the parapet. (Subsection 01.05. C, Article 05, UDC)
- (3) The building elevations met the majority of the articulation requirements, except for the following:
  - a. Primary Façade: (1) There is not a Secondary Entry/Arch. Element, (2) The Wall Projections are less than five (5) feet.
  - b. Secondary Façades: (1) The Secondary Entry/Arch. Element Width is less than three (3) feet.

These deviations primarily deal with the horizontal articulation or ins-and-outs of the building.

M.10 At this time, based on the materials submitted, staff has identified several changes to the site, landscape, photometric, and building design that require changes. Any required changes that are not made will be an exception/variance. These exceptions/variances must be approved by the Planning and Zoning Commission.

M.11 According to Article 11, Development Application and Review Procedures, of the Unified Development Code (UDC), two (2) compensatory measures (above and beyond the requirements of the UDC) for each exception or variance is required. In order to request an exception or variance, the applicant will need to provide a letter outlining the requested exceptions and required compensatory measures. For every requested exception or variance, two (2) compensatory measures must be provided.

I.12 Please note that failure to address all comments provided by staff by 3:00 PM on October 7, 2025 will result in the automatic denial of the case on the grounds of an incomplete submittal. No refund will be given for cases that are denied due to an incomplete submittal, and a new application and fee will be required to resubmit the case.

I.13 Please note the scheduled meetings for this case:

- (1) Planning & Zoning meeting/work session meeting will be held on September 30, 2025.
- (2) Planning & Zoning meeting/public hearing meeting will be held on October 14, 2025.

I.14 All meetings will be held in person and in the City's Council Chambers. All meetings listed above are scheduled to begin at 6:00 p.m. (P&Z). The City requires that a

representative(s) be present for these meetings. During the upcoming work session meeting with the Planning and Zoning Commission, representative(s) are required to present their case and answer any questions the Planning Commission may have regarding this request.

| DEPARTMENT  | REVIEWER      | DATE OF REVIEW | STATUS OF PROJECT    |
|---|---------------|----------------|----------------------|
| ENGINEERING   | Madelyn Price | 09/17/2025     | Approved w/ Comments |
| 09/17/2025: 1. Remove all signage. Permitted separately through Building Department<br>2. Sidewalk required along FM549<br>3. Will need an off-site 20' easement<br>4. Fire hydrant to have 5' clearance around (5' from curb). Median will need to be a minimum of 10' wide<br>5. Water main will have to be looped.<br>6. All hydrants and water meters must be in a 20' utility easement.<br>7. Dumpster cannot be accessed by trash trucks when there are vehicles in the drive thru.<br>8. All proposed plantings cannot be within water easements. This is the same location as the proposed hydrant. |               |                |                      |

General Items:

- Must meet City 2023 Standards of Design and Construction
- 4% Engineering Inspection Fees
- Impact Fees (Water, Sewer, Roadway)
- Minimum easement width is 20' for new easements. No structures, including walls, allowed in easements.
- Retaining walls 3' and over must be engineered.
- All retaining walls (18" or taller) must be rock or stone face. No smooth concrete walls.
- No signage is allowed within easements or ROW.
- No structures or fences allowed within easements.
- The site will need to be platted if changing existing easements or adding easements.
- All utilities must be underground.
- Additional comments may be provided at the time of Site Plan and Engineering review.

Drainage Items:

- Existing flow patterns must be maintained. The entire site must continue to drain to the existing detention pond in the back of the site.
- Detention is already provided for this site.
- The property owner will be responsible for maintaining, repair, and replacement of the drainage systems.
- Grate inlets are not allowed.
- No vertical walls allowed in detention or drainage easements.
- No public water or sanitary sewer allowed in detention or drainage easements.
- FFE for all buildings must be called out when adjacent to a detention system or drainage swale. FEE must be a minimum 2' above the 100-year WSEL for the detention system and drainage swale.
- Dumpster areas to drain to oil/water separator and then to the storm lines.

Water and Wastewater Items:

- Site plan must show existing/proposed utility lines (Water, Sewer, etc.)
- Public sewer to be 8" minimum.
- Commercial sanitary sewer service line size is minimum 6" and must connect to an existing or proposed manhole.
- There is an existing 8" sewer main available for use on the southwest side of the site.
- There is also an existing 12" water main located on the other side of FM 549. Crossing will have to be by dry bore, steel encased, and have a TxDOT permit for the crossing. City will apply for permit.
- Any public water lines must be a minimum of 8", looped, and must be centered within a 20' wide easement.
- Any utility connection made underneath of an existing roadway must be completed by dry bore. Opening cutting will not be allowed.
- Only one "use" off a dead-end line (domestic, irrigation, fire sprinkler, fire hydrant, etc.)

- Min 20' utility easements.
- Water to be 10' separated from storm and sewer lines.
- All public utilities must be centered in easement.

Roadway Paving Items:

- Must meet City driveway spacing requirements.
- All parking, storage, drive aisles must be reinforced concrete. (No rock, gravel, or asphalt allowed).
- All Parking to be 20'x9' minimum. Parking may not be off a public Roadway. Vehicle must not be required to back onto a public roadway, including trash trucks.
- No dead-end parking allowed without an City approved turnaround.
- Drive isles to be 24' wide.
- Fire lane (if needed) to be 24' wide and in a platted easement.
- Fire lane (if needed) to have 20' min radius if buildings are less than 30' tall. If any of the buildings are 30' or more, the fire lane will be 30' radius minimum.

Landscaping:

- No trees to be with 10' of any public water, sewer or storm line that is 10" in diameter or larger.
- No trees to be with 5' of any public water, sewer, or storm line that is less than 10".
- Landscape berms may not be on top of City utilities or within easements.

| DEPARTMENT | REVIEWER     | DATE OF REVIEW | STATUS OF PROJECT |
|------------|--------------|----------------|-------------------|
| BUILDING   | Craig Foshee | 09/19/2025     | Approved          |

No Comments

| DEPARTMENT | REVIEWER       | DATE OF REVIEW | STATUS OF PROJECT |
|------------|----------------|----------------|-------------------|
| FIRE       | Ariana Kistner | 09/17/2025     | Approved          |

No Comments

| DEPARTMENT | REVIEWER        | DATE OF REVIEW | STATUS OF PROJECT    |
|------------|-----------------|----------------|----------------------|
| GIS        | Lance Singleton | 09/15/2025     | Approved w/ Comments |

09/15/2025: Address will be 3480 S. FM 549, Rockwall, TX 75032

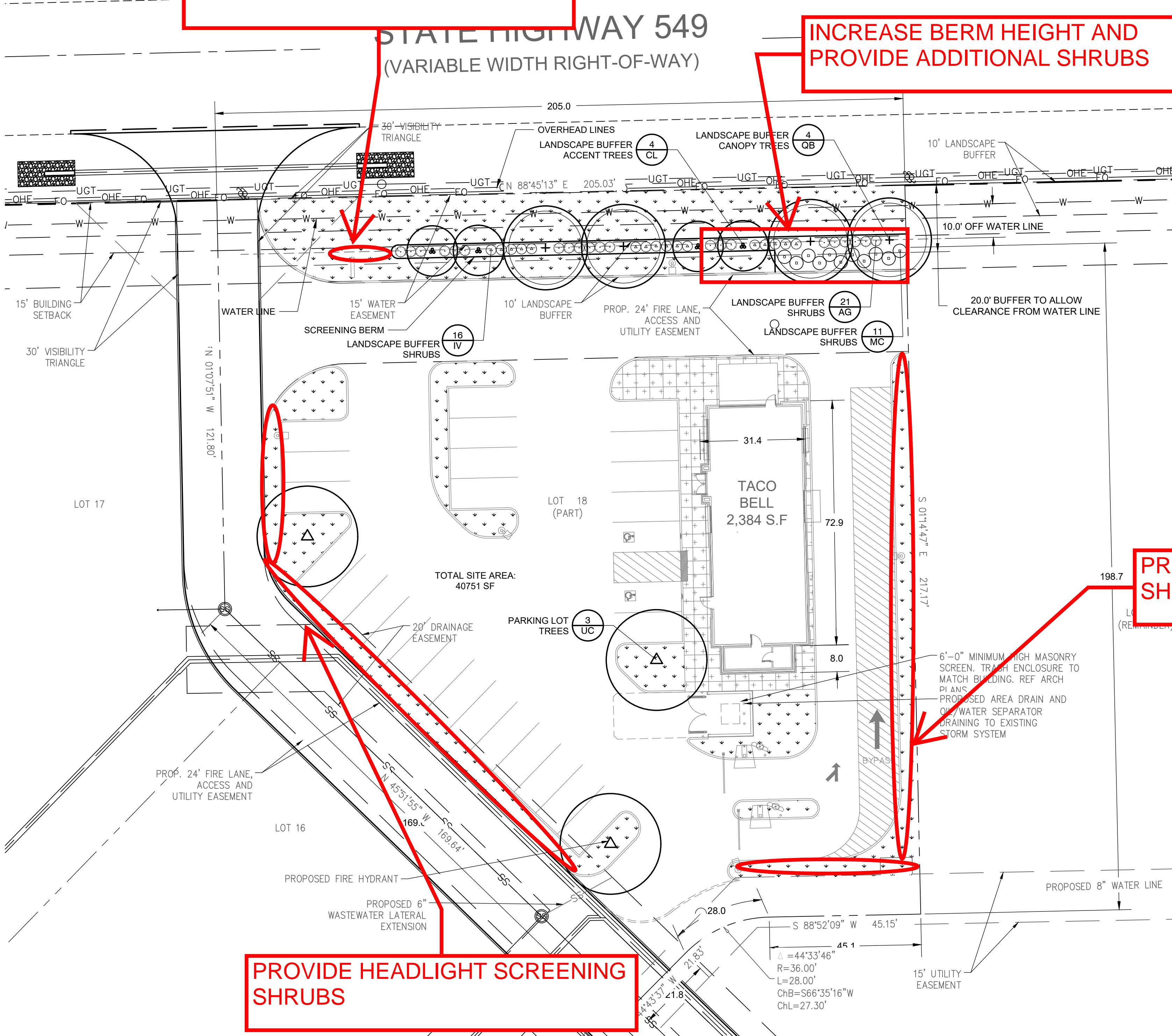
| DEPARTMENT | REVIEWER        | DATE OF REVIEW | STATUS OF PROJECT |
|------------|-----------------|----------------|-------------------|
| POLICE     | Chris Cleveland | 09/15/2025     | Approved          |

No Comments

| DEPARTMENT | REVIEWER     | DATE OF REVIEW | STATUS OF PROJECT    |
|------------|--------------|----------------|----------------------|
| PARKS      | Travis Sales | 09/15/2025     | Approved w/ Comments |

09/15/2025: Ensure that all paring spaces are within 80' of tree canopy

There are better species of turfgrass than Tifway 419 Bermuda that are more drought, cold, wear and shade tolerant such as Tif Tuf or Tahoma 31

**EXTEND BERM****INCREASE BERM HEIGHT AND PROVIDE ADDITIONAL SHRUBS**

**CAUTION NOTICE TO CONTRACTORS**  
THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUCH CALL 811 AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THESE PLANS.

**LANDSCAPE CALCULATIONS**

PERMITTING AUTHORITY: CITY OF ROCKWALL, TX  
ZONING: C  
ADJACENT ZONING: C

**OVERALL**  
TOTAL SITE AREA: 40,751 SF  
LANDSCAPE AREA REQUIRED: 8,150 SF (20% OF SITE AREA)  
LANDSCAPE AREA PROVIDED: 8,594 SF  
% OF REQ. AREA IN FRONT AND SIDE YARDS: 91.7% (MIN. 50%)  
IMPERVIOUS AREA ON SITE: 32,157 SF

**LANDSCAPE BUFFER ALONG S FM 549, MIN. WIDTH 10'**  
LENGTH OF FRONTAGE: 192 LF (NOT INCL WIDTH OF DRIVEWAY)  
CANOPY TREES REQUIRED: 4 CANOPY TREES (1 PER 50 LF)  
CANOPY TREES PROVIDED: 4 CANOPY TREES  
ACCENT TREES REQUIRED: 4 ACCENT TREES (1 PER 50 LF)  
ACCENT TREES PROVIDED: 4 ACCENT TREES  
SHRUBS REQUIRED: 48 SHRUBS PROVIDED  
BERM REQUIRED: TO BE SHOWN ON GRADING PLAN  
NOTE: ADDITIONAL SHRUBS HAVE BEEN ADDED TO PROVIDE AN ENHANCED SCREEN AT THE DRIVE-THROUGH.

**PARKING LOT HEAD LIGHT SCREENING**  
NOT APPLICABLE - NO HEAD IN PARKING SPACES ARE ADJACENT TO A STREET.

**PARKING LOT LANDSCAPING**  
SIZE OF PARKING AND MANEUVERING AREA: 22,382 SF  
QUANTITY OF PARKING SPACES: 27 PARKING SPACES  
CANOPY TREES REQUIRED: 3 CANOPY TREES (1 PER 10 PARKING SPACES)  
CANOPY TREES PROVIDED: 3 CANOPY TREES  
NOTE: NO PARKING SPACE MAY BE MORE THAN 80 LF FROM THE TRUNK OF A CANOPY TREE.

**GENERAL GRADING AND PLANTING NOTES**

1. BY SUBMITTING A PROPOSAL FOR THE LANDSCAPE PLANTING SCOPE OF WORK, THE CONTRACTOR CONFIRMS THAT HE HAS READ, AND WILL COMPLY WITH, THE ASSOCIATED NOTES, SPECIFICATIONS, AND DETAILS WITH THIS PROJECT.
2. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL EXISTING VEGETATION (EXCEPT WHERE NOTED TO REMAIN).
3. IN THE CONTEXT OF THESE PLANS, NOTES, AND SPECIFICATIONS, "FINISH GRADE" REFERS TO THE FINAL ELEVATION OF THE SOIL SURFACE (NOT TOP OF MULCH) AS INDICATED ON THE GRADING PLANS.
  - a. BEFORE STARTING WORK, THE LANDSCAPE CONTRACTOR SHALL VERIFY THAT THE ROUGH GRADES OF ALL LANDSCAPE AREAS ARE WITHIN +/-0.1' OF FINISH GRADE. SEE SPECIFICATIONS FOR MORE DETAILED INSTRUCTION ON TURF AREA AND PLANTING BED PREPARATION.
  - b. CONSTRUCT AND MAINTAIN FINISH GRADES AS SHOWN ON GRADING PLANS, AND CONSTRUCT AND MAINTAIN SLOPES AS RECOMMENDED BY THE GEOTECHNICAL REPORT. ALL LANDSCAPE AREAS SHALL HAVE POSITIVE DRAINAGE AWAY FROM STRUCTURES AT THE MINIMUM SLOPE SPECIFIED IN THE REPORT AND ON THE GRADING PLANS, AND AREAS OF POTENTIAL PONDING SHALL BE REGRADED TO BLEND IN WITH THE SURROUNDING GRADES AND ELIMINATE PONDING POTENTIAL.
4. WHETHER OR NOT THE EXPORT OF ANY SOIL WILL BE NEEDED, TAKING INTO ACCOUNT THE ROUGH GRADE PROVIDED, BASED ON A SOIL TEST, PER SPECIFICATIONS, AND THE FINISH GRADES TO BE ESTABLISHED.
5. IMMEDIATELY ADJACENT TO WALKS AND OTHER WALKING SURFACES, AFTER INSTALLING SOIL AMENDMENTS, IS 3" IMMEDIATELY ADJACENT TO WALKS AND OTHER WALKING SURFACES, AFTER INSTALLING SOIL AMENDMENTS, IS 1" BELOW THE SOIL SURFACE TO MEET FINISH GRADE, AS SPECIFIED ON THE GRADING PLANS.
6. IMMEDIATELY ADJACENT TO WALKS AND OTHER WALKING SURFACES, AFTER INSTALLING SOIL AMENDMENTS, IS 1" BELOW THE SOIL SURFACE TO MEET FINISH GRADE, AS SPECIFIED ON THE GRADING PLANS, AT APPROXIMATELY 18" AWAY FROM THE WALKS.
7. f. SHOULD ANY CONFLICTS AND/OR DISCREPANCIES ARISE BETWEEN THE GRADING PLANS, GEOTECHNICAL REPORT, THESE NOTES AND PLANS, AND ACTUAL CONDITIONS, THE CONTRACTOR SHALL IMMEDIATELY BRING SUCH ITEMS TO THE ATTENTION OF THE LANDSCAPE ARCHITECT, GENERAL CONTRACTOR, AND OWNER.
8. 4. ALL PLANT LOCATIONS ARE DIAGRAMMATIC. ACTUAL LOCATIONS SHALL BE VERIFIED WITH THE LANDSCAPE ARCHITECT OR DESIGNER PRIOR TO PLANTING. THE LANDSCAPE CONTRACTOR SHALL ENSURE THAT ALL REQUIREMENTS OF THE PERMITTING AUTHORITY ARE MET (I.E., MINIMUM PLANT QUANTITIES, PLANTING METHODS, TREE PROTECTION METHODS, ETC.).
9. a. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR DETERMINING PLANT QUANTITIES; PLANT QUANTITIES SHOWN ON LEGENDS AND CALLOUTS ARE FOR GENERAL INFORMATION ONLY. IN THE EVENT OF A DISCREPANCY BETWEEN THE PLAN AND THE PLANT LEGEND, THE PLANT QUANTITY AS SHOWN ON THE PLAN (FOR INDIVIDUAL SYMBOLS) OR CALLOUT (FOR GROUNDCOVER, PATTERNS) SHALL TAKE PRECEDENCE.
10. b. NO SUBSTITUTIONS OF PLANT MATERIALS SHALL BE ALLOWED WITHOUT THE WRITTEN PERMISSION OF THE LANDSCAPE ARCHITECT. IF SOME OF THE PLANTS ARE NOT AVAILABLE, THE LANDSCAPE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT IN WRITING (VIA PROPER CHANNELS).
11. c. THE CONTRACTOR SHALL, AT A MINIMUM, PROVIDE REPRESENTATIVE PHOTOS OF ALL PLANTS PROPOSED FOR THE PROJECT. THE CONTRACTOR SHALL ALLOW THE LANDSCAPE ARCHITECT AND THE OWNER/OWNER'S REPRESENTATIVE TO INSPECT, AND APPROVE OR REJECT, ALL PLANTS DELIVERED TO THE JOBSITE. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS FOR SUBMITTALS.
12. 5. CONTRACTOR SHALL PROVIDE AND INSTALL SOLID SOD IN ALL RIGHT-OF-WAYS AND PARKWAYS (UNLESS NOT ALLOWED BY THE LOCAL JURISDICTION) AND SHALL PROVIDE WATERING AND MAINTENANCE UNTIL THE SURFACE IS ESTABLISHED AND HAS BEEN ACCEPTED BY OWNER.
13. 6. THE CONTRACTOR SHALL MAINTAIN THE LANDSCAPE IN A HEALTHY CONDITION FOR 90 DAYS AFTER ACCEPTANCE BY THE OWNER. REFER TO SPECIFICATIONS FOR CONDITIONS OF ACCEPTANCE FOR THE START OF THE MAINTENANCE PERIOD, AND FOR FINAL ACCEPTANCE AT THE END OF THE MAINTENANCE PERIOD.
14. 7. SEE SPECIFICATIONS AND DETAILS FOR FURTHER REQUIREMENTS.

**ROOT BARRIERS**

THE CONTRACTOR SHALL INSTALL ROOT BARRIERS NEAR ALL NEWLY-PLANTED TREES THAT ARE LOCATED WITHIN FIVE (5) FEET OF PAVING, CURBS, WATER, STORM, OR SANITARY SEWER UTILITIES. ROOT BARRIERS SHALL BE "CENTURY" OR "DEEP-ROOT" 24" DEEP PANELS (OR EQUAL). BARRIERS SHALL BE LOCATED IMMEDIATELY ADJACENT TO HARDCAPE, INSTALL PANELS PER MANUFACTURER'S RECOMMENDATIONS. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR USE ROOT BARRIERS OF A TYPE THAT COMPLETELY ENCIRCLE THE ROOTBALL.

**MULCHES**

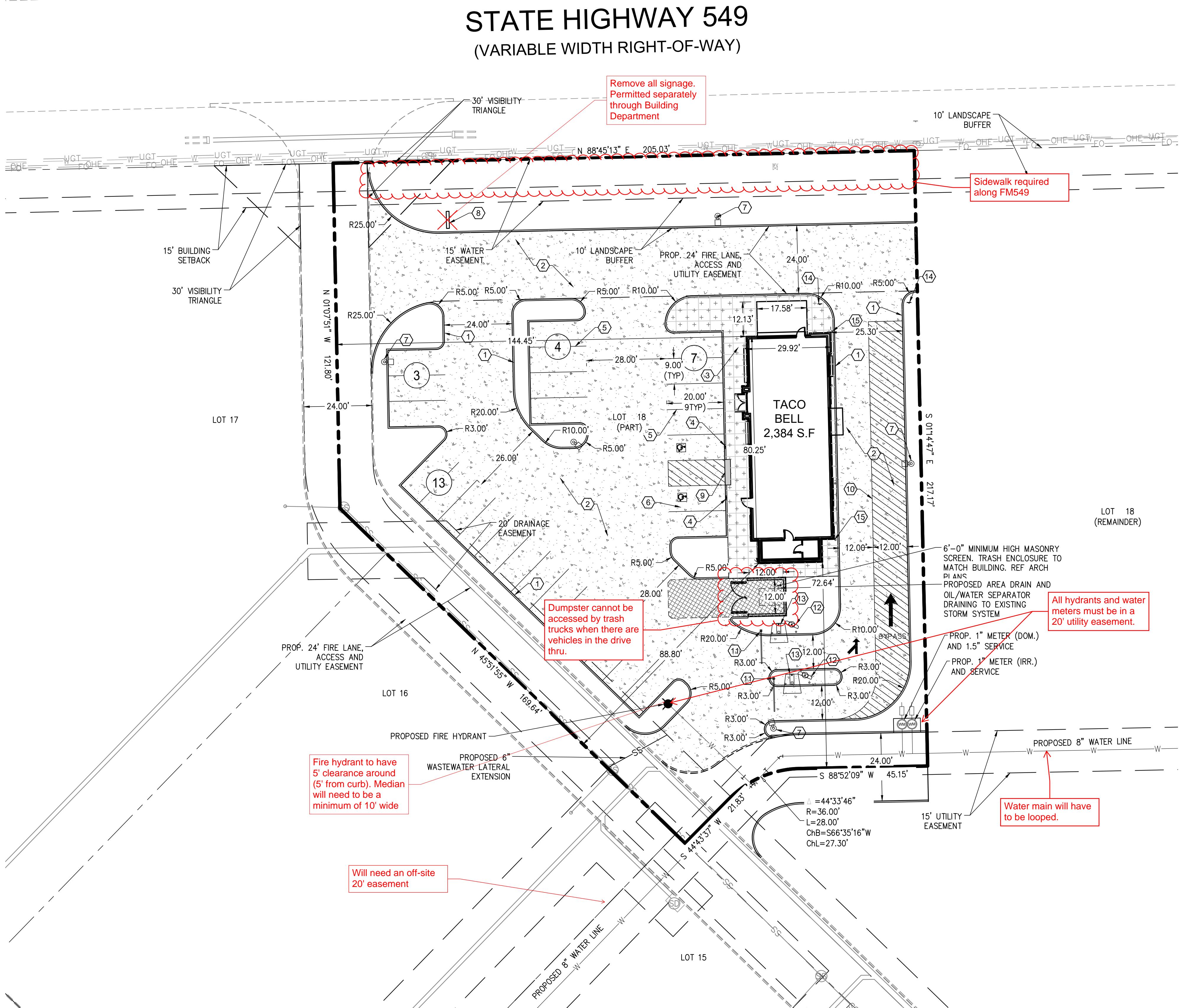
AFTER ALL PLANTING IS COMPLETE, CONTRACTOR SHALL INSTALL 2" THICK LAYER OF 1-1/2" SHREDDED WOOD MULCH, NATURAL (UNDYED), OVER LANDSCAPE FABRIC IN ALL PLANTING AREAS (EXCEPT FOR TURF AND SEEDED AREAS). CONTRACTOR SHALL SUBMIT SAMPLES OF ALL MULCHES TO LANDSCAPE ARCHITECT AND OWNER FOR APPROVAL PRIOR TO CONSTRUCTION. ABSOLUTELY NO EXPOSED GROUND SHALL BE LEFT SHOWING ANYWHERE ON THE PROJECT AFTER MULCH HAS BEEN INSTALLED (SUBJECT TO THE CONDITIONS AND REQUIREMENTS OF THE "GENERAL GRADING AND PLANTING NOTES" AND SPECIFICATIONS).

**PLANTING & IRRIGATION GUARANTEE**

THE LANDSCAPE CONTRACTOR SHALL GUARANTEE THAT ALL NEWLY INSTALLED AND EXISTING PLANTS SHALL SURVIVE FOR ONE YEAR AFTER FINAL OWNER ACCEPTANCE OF THE INSTALLATION WORK. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR APPROPRIATE WATERING OF THE LANDSCAPE THROUGH INSTALLATION OF A PROPERLY DESIGNED IRRIGATION SYSTEM. THE OWNER SHALL APPROVE THE SYSTEM DESIGN BEFORE INSTALLATION OF PLANTS OR IRRIGATION.

| PLANT SCHEDULE |     |         |                                      |                               |              |          |
|----------------|-----|---------|--------------------------------------|-------------------------------|--------------|----------|
| SYMBOL         | KEY | QTY     | BOTANICAL NAME                       | COMMON NAME                   | SIZE         | SPACING  |
| TREES          |     |         |                                      |                               |              |          |
| ●              | CL  | 4       | CHILOPSIS LINEARIS 'TIMELESS BEAUTY' | TIMELESS BEAUTY DESERT WILLOW | MIN. 4' HT.  | PER PLAN |
| ●              | QB  | 4       | QUERCUS BUCKLEYI                     | TEXAS RED OAK                 | MIN. 4" CAL. | PER PLAN |
| ▲              | UC  | 3       | ULMUS CRASSIFOLIA                    | CEDAR ELM                     | MIN. 4" CAL. | PER PLAN |
| SHRUBS         |     |         |                                      |                               |              |          |
| ○              | AG  | 21      | ABELIA GRINDIFOLIA 'ROSE CREEK'      | ROSE CREEK ABELIA             | 3 GAL.       | 2' O.C.  |
| ○              | IV  | 16      | ILEX VOMITORIA 'NANA'                | DWARF YAUPON HOLLY            | 3 GAL.       | 3' O.C.  |
| ○              | MC  | 11      | MYRICA CERIFERA 'DON'S DWARF'        | DON'S DWARF WAX MYRTLE        | 3 GAL.       | 4' O.C.  |
| GROUNDCOVER    |     |         |                                      |                               |              |          |
| ▼              |     | 7728 SF | SOD: TIFWAY 419                      | BERMUDA GRASS                 | SOD          |          |





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#### SITE PLAN KEY

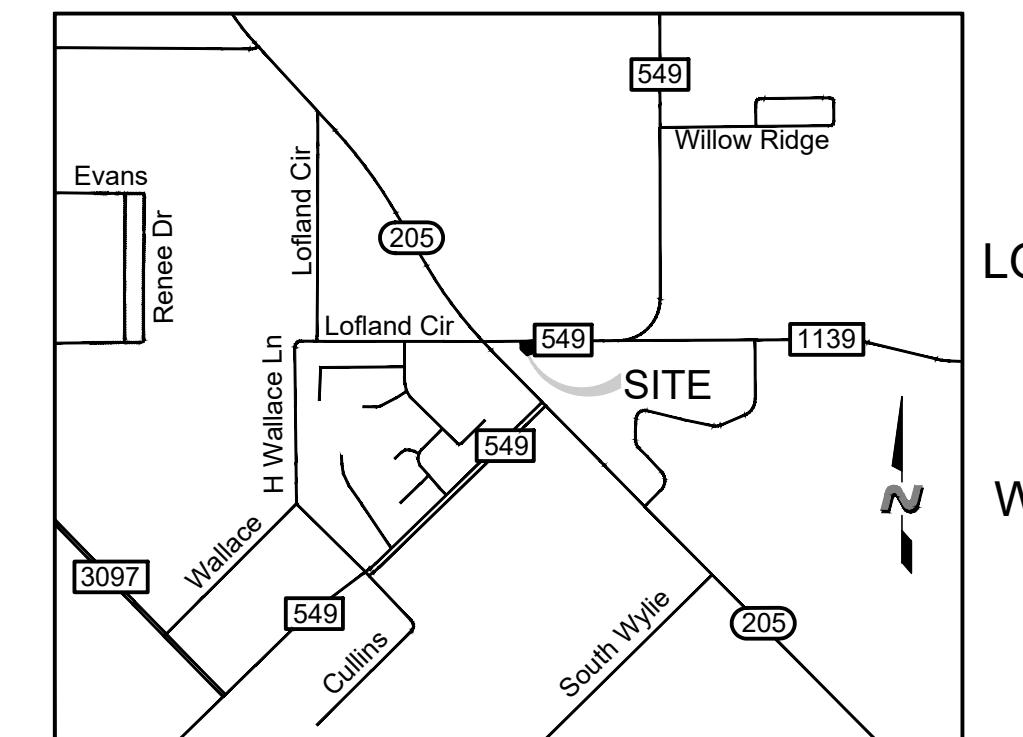
- ① CONSTRUCT
- ② CONSTRUCT
- ③ INSTALL SIDE
- ④ INSTALL HAND
- ⑤ 4" WHITE PAVE
- ⑥ HANDICAP VAI
- ⑦ STANDARD A
- ⑧ MONUMENT S
- ⑨ NEW BARRIER
- ⑩ PROPOSED E
- ⑪ CLEARANCE B
- ⑫ MENU BOARD
- ⑬ ORDER SPEAK
- ⑭ ONE WAY DO
- ⑮ PROPOSED 4"

#### GENERAL NOTES

1. The contractor shall assume including safety of all persons, protect, indemnify defend and hold harmless the City of Rockwall, Texas, and its officers, agents, employees, and contractors, from and against any and all claims, demands, suits, actions, causes of action, damages, losses, expenses, and costs, including attorney's fees, arising out of or resulting from any work or performance of any work or policies.
2. Existing above ground utility records and may not underground utilities prior to those not shown on the plan hours prior to beginning excavation.
3. The contractor shall comply with all applicable laws.
4. The contractor shall provide debris/solid waste hauler.
5. There will be no outside storage.
6. Per the Engineering Standards:

| USE                       | 27 SPACES (1/100 G.F.A.) |
|---------------------------|--------------------------|
| LOT AREA                  |                          |
| BUILDING SQUARE FOOT      |                          |
| FAR                       |                          |
| BUILDING HEIGHT           |                          |
| TOTAL PERVIOUS COVE       |                          |
| TOTAL IMPERVIOUS COVE     |                          |
| PARKING REQUIRED          | 27 SPACES (1/100 G.F.A.) |
| PARKING PROVIDED          | 27 SPACES                |
| HANDICAP PARKING REQUIRED | 2 SPACES                 |
| HANDICAP PARKING PROVIDED | 2 SPACES                 |

| PAVING LEGEND |  |
|---------------|--|
| PARKING AREA  | 6" THICK 4000 P.S.I. #4 REBAR AT 18" O.C.E.W. (6.5 SACK MIX) |
| DUMPSTER PAD  | 7" THICK 4000 P.S.I. #4 REBAR AT 18" O.C.E.W. (6.5 SACK MIX) |
| SIDEWALK      | 4" THICK 3000 P.S.I. #3 REBAR AT 24" O.C.E.W. (5.5 SACK MIX) |



VICINITY MAP  
N.T.S.

#### General Items:

- Must meet City 2023 Standards of Design and Construction
- 4% Engineering Inspection Fees
- Impact Fees (Water, Sewer, Roadway)
- Minimum easement width is 20' for new easements. No structures, including walls, allowed in easements.
- Retaining walls 3' and over must be engineered.
- All retaining walls (18' or taller) must be rock or stone face. No smooth concrete walls.
- No signage is allowed within easements or ROW.
- No structures or fences allowed within easements.
- The site will need to be platted if changing existing easements or adding easements.
- All utilities must be underground.
- Additional comments may be provided at the time of Site Plan and Engineering review.

#### Drainage Items:

- Existing flow patterns must be maintained. The entire site must continue to drain to the existing detention pond in the back of the site.
- Detention is already provided for this site.
- The property owner will be responsible for maintaining, repair, and replacement of the drainage systems.
- Grate inlets are not allowed.
- No vertical walls allowed in detention or drainage swale.
- No public water or sanitary sewer allowed in detention or drainage swale.
- FEE for all buildings must be called out when adjacent to a detention system or drainage swale. FEE must be a minimum 2' above the 100-year WSEL for the detention system and drainage swale.
- Dumpster areas to drain to oil/water separator and then to the storm lines.

#### Water and Wastewater Items:

- Site plan must show existing/proposed utility lines (Water, Sewer, etc.)
- Public sewer to be 8" minimum.
- Commercial sanitary sewer service line size is minimum 6" and must connect to an existing or proposed manhole.

- There is an existing 8" sewer main available for use on the southwest side of the site.
- There is also an existing 12" water main located on the other side of FM 549. Crossing will have to be by dry bore, steel encased, and have a TxDOT permit for the crossing. City will apply for permit.
- Any public water lines must be a minimum of 8", looped, and must be centered within a 20' wide easement.

- Any utility connection made underneath of an existing roadway must be completed by dry bore. Opening cutting will not be allowed.
- Only one "use" off a dead-end line (domestic, irrigation, fire sprinkler, fire hydrant, etc.)
- Min 20' utility easements.
- Water to be 10' separated from storm and sewer lines.
- All public utilities must be centered in easement.

#### Roadway Paving Items:

- Must meet City driveway spacing requirements.
- All parking, storage, drive aisles must be reinforced concrete. (No rock, gravel, or asphalt allowed).
- All Parking to be 20'x9' minimum. Parking may not be off a public Roadway. Vehicle must not be required to back onto a public roadway, including trash trucks.
- No dead-end parking allowed without an City approved turnaround.
- Drive isles to be 24' wide.
- Fire lane (if needed) to be 24' wide and in a platted easement.
- Fire lane (if needed) to have 20' min radius if buildings are less than 30' tall. If any of the buildings are 30' or more, the fire lane will be 30' radius minimum.

#### Landscaping:

- No trees to be with 10' of any public water, sewer or storm line that is 10" in diameter or larger.
- No trees to be with 5' of any public water, sewer, or storm line that is less than 10".
- Landscape berms may not be on top of City utilities or within easements.



THIS DOCUMENT IS RELEASED FOR THE PURPOSE OF PRELIMINARY REVIEW UNDER THE AUTHORITY OF KEATON L. MAI, P.E. 12345678  
IT IS NOT TO BE USED FOR CONSTRUCTION PURPOSES.

| BY          |  |
|-------------|--|
| drawn by    |  |
| designed by |  |
| approved by |  |

SITE PLAN  
TACO BELL

NWC STATE HIGHWAY 205 & FM 549  
ROCKWALL, TEXAS 75032

SHEET C3.0

APPROVED:  
I hereby certify that the above and foregoing site plan for a development in the City of Rockwall, Texas, was approved by the Planning & Zoning Commission of the City of Rockwall on the \_\_\_\_ day of \_\_\_\_ 2025.

WITNESS OUR HANDS, this \_\_\_\_ day of \_\_\_\_ 2025.

Planning & Zoning Commission, Chairman \_\_\_\_\_ Director of Planning and Zoning \_\_\_\_\_

CITY OF ROCKWALL MONUMENTS  
COR-8: ALUMINUM DISK STAMPED "CITY OF ROCKWALL SURVEY MONUMENT" AT THE NORTHERLY INTERSECTION OF SILVER VIEW LANE AND DIAMOND WAY DRIVE ±1 FOOT NORTHERLY OF CURB LINE IN CENTER OF CURVE.  
N: 7018063.113, E: 2609533.682 ELEVATION: 600.48'  
COR-9: BRASS DISK STAMPED "CITY OF ROCKWALL SURVEY MONUMENT" ON THE SOUTH SIDE OF DISCOVERY BOULEVARD AT THE SOUTHEAST CORNER OF CURB INLET ±180 FOOT EAST INTERSECTION OF DISCOVERY/CORPORATE.  
N: 7020550.132, E: 2607463.893 ELEVATION: 595.63'

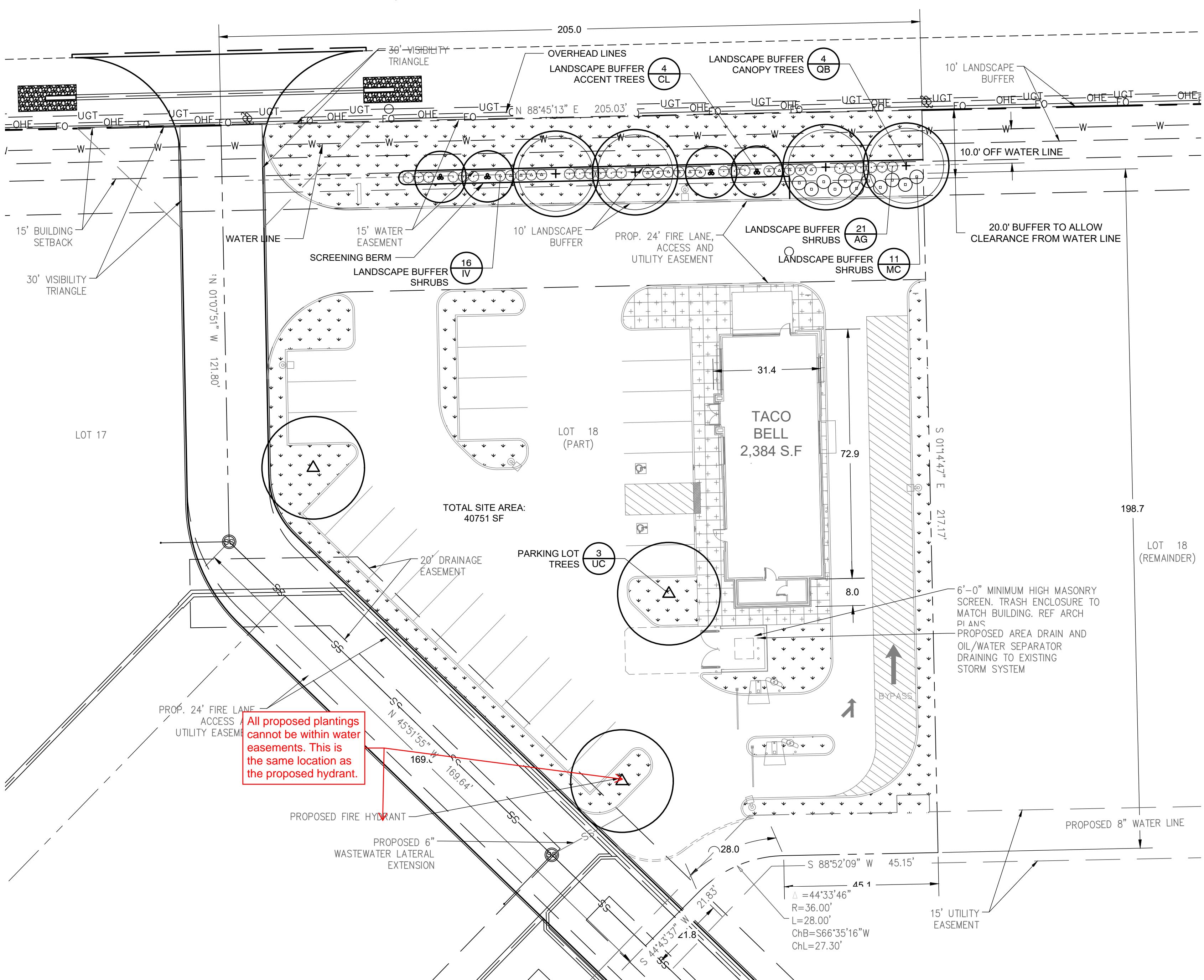
ENGINEER/APPLICANT THE DIMENSION GROUP OWNER PRUDENT DEVELOPMENT  
10755 SANDHILL ROAD 10755 SANDHILL ROAD  
DALLAS, TX 75238 DALLAS, TX 75238  
PHONE: (214) 343-9400 PHONE: (214) 271-4630  
CONTACT: KEATON L. MAI, P.E. CONTACT: MICHAEL HAMPTON  
DEVELOPER VALLEY BELLS ENTERPRISES, LLC  
101 E. CHEROKEE STREET JACKSONVILLE, TX 75766  
PHONE: (903) 586-1524 CONTACT: MIKE STRANSBERRY

SITE PLAN  
LOT 18, BLOCK A, CREEKSIDE COMMONS  
ADDITION

NWC STATE HIGHWAY 205 & FM 549  
A 0.936 ACRE TRACT OF LAND IN THE  
WILLIAM W. FORD SURVEY, ABST. NO 80  
CITY OF ROCKWALL, ROCKWALL  
COUNTY, TEXAS  
CITY PROJECT #SP2025-xxx  
September 11, 2025

# STATE HIGHWAY 549

(VARIABLE WIDTH RIGHT-OF-WAY)



## IRRIGATION CONCEPT

- AN AUTOMATIC IRRIGATION SYSTEM SHALL BE INSTALLED AND OPERATIONAL BY THE TIME OF FINAL INSPECTION. THE ENTIRE IRRIGATION SYSTEM SHALL BE INSTALLED BY A LICENSED AND QUALIFIED IRRIGATION CONTRACTOR.
- THE IRRIGATION SYSTEM WILL MEET THE REQUIREMENTS OF THE UDC.
- THE IRRIGATION SYSTEM WILL OPERATE ON POTABLE WATER, AND THE SYSTEM WILL HAVE APPROPRIATE BACKFLOW PREVENTION DEVICES INSTALLED TO PREVENT CONTAMINATION OF THE POTABLE SOURCE.
- ALL NON-TURF PLANTED AREAS SHALL BE DRIP IRRIGATED. SODDED AND SEEDED AREAS SHALL BE IRRIGATED WITH SPRAY OR ROTOR HEADS AT 100% HEAD-TO-HEAD COVERAGE.
- ALL PLANTS SHARING SIMILAR HYDROZONE CHARACTERISTICS SHALL BE PLACED ON A VALVE DEDICATED TO PROVIDE THE NECESSARY WATER REQUIREMENTS SPECIFIC TO THAT HYDROZONE.
- THE IRRIGATION SYSTEM SHALL BE DESIGNED AND INSTALLED, TO THE MAXIMUM EXTENT POSSIBLE, TO CONSERVE WATER BY USING THE FOLLOWING DEVICES AND SYSTEMS: MATCHED PRECIPITATION RATE TECHNOLOGY ON ROTOR AND SPRAY HEADS (WHEREVER POSSIBLE), RAIN SENSORS, AND MULTI-PROGRAM COMPUTERIZED IRRIGATION CONTROLLERS FEATURING SENSORY INPUT CAPABILITIES.

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## LANDSCAPE CALCULATIONS

PERMITTING AUTHORITY: CITY OF ROCKWALL, TX  
ZONING: C  
ADJACENT ZONING: C

**OVERALL**  
TOTAL SITE AREA: 40,751 SF  
LANDSCAPE AREA REQUIRED: 8,150 SF (20% OF SITE AREA)  
LANDSCAPE AREA PROVIDED: 8,594 SF  
% OF REQ. AREA IN FRONT AND SIDE YARDS: 91.7% (MIN. 50%)  
IMPERVIOUS AREA ON SITE: 32,157 SF

**LANDSCAPE BUFFER ALONG S FM 549, MIN. WIDTH 10'**  
LENGTH OF FRONTAGE: 192 LF (NOT INCL WIDTH OF DRIVEWAY)  
CANOPY TREES REQUIRED: 4 CANOPY TREES (1 PER 50 LF)  
CANOPY TREES PROVIDED: 4 CANOPY TREES  
ACCENT TREES REQUIRED: 4 ACCENT TREES (1 PER 50 LF)  
ACCENT TREES PROVIDED: 4 ACCENT TREES  
SHRUBS REQUIRED: 48 SHRUBS PROVIDED  
BERM REQUIRED: TO BE SHOWN ON GRADING PLAN  
NOTE: ADDITIONAL SHRUBS HAVE BEEN ADDED TO PROVIDE AN ENHANCED SCREEN AT THE DRIVE THROUGH.

**PARKING LOT HEAD LIGHT SCREENING**  
NOT APPLICABLE - NO HEAD IN PARKING SPACES ARE ADJACENT TO A STREET.

**PARKING LOT LANDSCAPING**  
SIZE OF PARKING AND MANEUVERING AREA: 22,382 SF  
QUANTITY OF PARKING SPACES: 27 PARKING SPACES  
CANOPY TREES REQUIRED: 3 CANOPY TREES (1 PER 10 PARKING SPACES)  
CANOPY TREES PROVIDED: 3 CANOPY TREES  
NOTE: NO PARKING SPACE MAY BE MORE THAN 80 LF FROM THE TRUNK OF A CANOPY TREE.

## GENERAL GRADING AND PLANTING NOTES

- BY SUBMITTING A PROPOSAL FOR THE LANDSCAPE PLANTING SCOPE OF WORK, THE CONTRACTOR CONFIRMS THAT HE HAS READ, AND WILL COMPLY WITH, THE ASSOCIATED NOTES, SPECIFICATIONS, AND DETAILS WITH THIS PROJECT.
- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL EXISTING VEGETATION (EXCEPT WHERE NOTED TO REMAIN).
- IN THE CONTEXT OF THESE PLANS, NOTES, AND SPECIFICATIONS, "FINISH GRADE" REFERS TO THE FINAL ELEVATION OF THE SOIL SURFACE (NOT TOP OF MULCH) AS INDICATED ON THE GRADING PLANS.
  - BEFORE STARTING WORK, THE LANDSCAPE CONTRACTOR SHALL VERIFY THAT THE ROUGH GRADES OF ALL LANDSCAPE AREAS ARE WITHIN +/-0.1' OF FINISH GRADE. SEE SPECIFICATIONS FOR MORE DETAILED INSTRUCTION ON TURF AREA AND PLANTING BED PREPARATION.
  - CONSTRUCT AND MAINTAIN FINISH GRADES AS SHOWN ON GRADING PLANS, AND CONSTRUCT AND MAINTAIN SLOPES AS RECOMMENDED BY THE GEOTECHNICAL REPORT. ALL LANDSCAPE AREAS SHALL HAVE POSITIVE DRAINAGE AWAY FROM STRUCTURES AT THE MINIMUM SLOPE SPECIFIED IN THE REPORT AND ON THE GRADING PLANS, AND AREAS OF POTENTIAL PONDING SHALL BE REGRADED TO BLEND IN WITH THE SURROUNDING GRADES AND ELIMINATE PONDING POTENTIAL.
  - THE LANDSCAPE CONTRACTOR SHALL DETERMINE WHETHER OR NOT THE EXPORT OF ANY SOIL WILL BE NEEDED, TAKING INTO ACCOUNT THE ROUGH GRADE PROVIDED, THE AMOUNT OF SOIL AMENDMENTS TO BE ADDED (BASED ON A SOIL TEST, PER SPECIFICATIONS), AND THE FINISH GRADES TO BE ESTABLISHED.
  - ENSURE THAT THE FINISH GRADE IN SHRUB AREAS IMMEDIATELY ADJACENT TO WALKS AND OTHER WALKING SURFACES, AFTER INSTALLING SOIL AMENDMENTS, IS 3" BELOW THE ADJACENT FINISH SURFACE, IN ORDER TO ALLOW FOR PROPER MULCH DEPTH. TAPER THE SOIL SURFACE TO MEET FINISH GRADE, AS SPECIFIED ON THE GRADING PLANS, AT APPROXIMATELY 18" AWAY FROM THE WALKS.
  - ENSURE THAT THE FINISH GRADE IN TURF AREAS IMMEDIATELY ADJACENT TO WALKS AND OTHER WALKING SURFACES, AFTER INSTALLING SOIL AMENDMENTS, IS 1" BELOW THE FINISH SURFACE OF THE WALKS. TAPER THE SOIL SURFACE TO MEET FINISH GRADE, AS SPECIFIED ON THE GRADING PLANS, AT APPROXIMATELY 18" AWAY FROM THE WALKS.
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- SEE SPECIFICATIONS AND DETAILS FOR FURTHER REQUIREMENTS.

## ROOT BARRIERS

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| PLANT SCHEDULE |     |         |                                      |                               |              |          |
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| TREES          |     |         |                                      |                               |              |          |
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| ●              | QB  | 4       | QUERCUS BUCKLEYI                     | TEXAS RED OAK                 | MIN. 4" CAL. | PER PLAN |
| ▲              | UC  | 3       | ULMUS CRASSIFOLIA                    | CEDAR ELM                     | MIN. 4" CAL. | PER PLAN |
| SHRUBS         |     |         |                                      |                               |              |          |
| ○              | AG  | 21      | ABELIA GRINDIFOLIA 'ROSE CREEK'      | ROSE CREEK ABELIA             | 3 GAL.       | 2' O.C.  |
| ○              | IV  | 16      | ILEX VOMITORIA 'NANA'                | DWARF YAUPON HOLLY            | 3 GAL.       | 3' O.C.  |
| ○              | MC  | 11      | MYRICA CERIFERA 'DON'S DWARF'        | DON'S DWARF WAX MYRTLE        | 3 GAL.       | 4' O.C.  |
| GROUNDCOVER    |     |         |                                      |                               |              |          |
| ▼              |     | 7728 SF | SOD: TIFWAY 419                      | BERMUDA GRASS                 | SOD          |          |

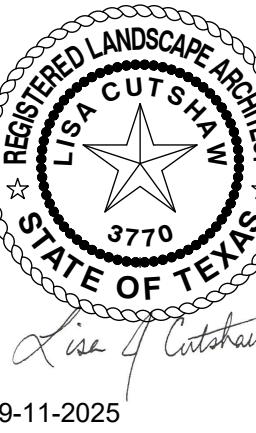
LANDSCAPE PLANTING PLAN  
TACO BELL  
NWC STATE HIGHWAY 205 AND FM 75032  
ROCKWALL, TEXAS 75032

SHEET

LP-1

National Presence. Local Expertise.  
EVERGREEN DESIGN GROUP  
800.680.6630  
LANDSCAPE ARCHITECTURE • MEP ENGINEERING  
30755 SANDHILL ROAD, DALLAS, TX 75238  
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THE DIMENSION GROUP  
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| BY                   | LC         | LC | LC | SS |
|----------------------|------------|----|----|----|
| DATE                 |            |    |    |    |
| REVISION DESCRIPTION |            |    |    |    |
| project no.          | 250-340    |    |    |    |
| Date                 | 09-11-2025 |    |    |    |
| dwg.                 |            |    |    |    |



# DEVELOPMENT APPLICATION

City of Rockwall  
Planning and Zoning Department  
385 S. Goliad Street  
Rockwall, Texas 75087

STAFF USE ONLY

PLANNING & ZONING CASE NO.

NOTE: THE APPLICATION IS NOT CONSIDERED ACCEPTED BY THE CITY UNTIL THE PLANNING DIRECTOR AND CITY ENGINEER HAVE SIGNED BELOW.

DIRECTOR OF PLANNING:

CITY ENGINEER:

PLEASE CHECK THE APPROPRIATE BOX BELOW TO INDICATE THE TYPE OF DEVELOPMENT REQUEST [SELECT ONLY ONE BOX]:

**PLATTING APPLICATION FEES:**

- MASTER PLAT (\$100.00 + \$15.00 ACRE)<sup>1</sup>
- PRELIMINARY PLAT (\$200.00 + \$15.00 ACRE)<sup>1</sup>
- FINAL PLAT (\$300.00 + \$20.00 ACRE)<sup>1</sup>
- REPLAT (\$300.00 + \$20.00 ACRE)<sup>1</sup>
- AMENDING OR MINOR PLAT (\$150.00)
- PLAT REINSTATEMENT REQUEST (\$100.00)

**SITE PLAN APPLICATION FEES:**

- SITE PLAN (\$250.00 + \$20.00 ACRE)<sup>1</sup>
- AMENDED SITE PLAN/ELEVATIONS/LANDSCAPING PLAN (\$100.00)

**ZONING APPLICATION FEES:**

- ZONING CHANGE (\$200.00 + \$15.00 ACRE)<sup>1</sup>
- SPECIFIC USE PERMIT (\$200.00 + \$15.00 ACRE)<sup>1 & 2</sup>
- PD DEVELOPMENT PLANS (\$200.00 + \$15.00 ACRE)<sup>1</sup>

**OTHER APPLICATION FEES:**

- TREE REMOVAL (\$75.00)
- VARIANCE REQUEST/SPECIAL EXCEPTIONS (\$100.00)<sup>2</sup>

**NOTES:**

<sup>1</sup>: IN DETERMINING THE FEE, PLEASE USE THE EXACT ACREAGE WHEN MULTIPLYING BY THE PER ACRE AMOUNT. FOR REQUESTS ON LESS THAN ONE ACRE, ROUND UP TO ONE (1) ACRE.

<sup>2</sup>: A \$1,000.00 FEE WILL BE ADDED TO THE APPLICATION FEE FOR ANY REQUEST THAT INVOLVES CONSTRUCTION WITHOUT OR NOT IN COMPLIANCE TO AN APPROVED BUILDING PERMIT.

## PROPERTY INFORMATION [PLEASE PRINT]

ADDRESS NWC of Hwy 205 and Future FM 549

SUBDIVISION Creekside Commons

LOT 18 BLOCK A

GENERAL LOCATION NWC of Hwy 205 and Future FM 549

## ZONING, SITE PLAN AND PLATTING INFORMATION [PLEASE PRINT]

|                 |                |                |                             |
|-----------------|----------------|----------------|-----------------------------|
| CURRENT ZONING  | Commercial (C) | CURRENT USE    | Undeveloped                 |
| PROPOSED ZONING | Commercial (C) | PROPOSED USE   | Restaurant w/ drive-through |
| ACREAGE         | 0.936          | LOTS [CURRENT] | 1                           |

**SITE PLANS AND PLATS:** BY CHECKING THIS BOX YOU ACKNOWLEDGE THAT DUE TO THE PASSAGE OF HB3167 THE CITY NO LONGER HAS FLEXIBILITY WITH REGARD TO ITS APPROVAL PROCESS. AND FAILURE TO ADDRESS ANY OF STAFF'S COMMENTS BY THE DATE PROVIDED ON THE DEVELOPMENT CALENDAR WILL RESULT IN THE DENIAL OF YOUR CASE.

## OWNER/APPLICANT/AGENT INFORMATION [PLEASE PRINT/CHECK THE PRIMARY CONTACT/ORIGINAL SIGNATURES ARE REQUIRED]

|                                |                               |   |                     |
|--------------------------------|-------------------------------|---|---------------------|
| <input type="checkbox"/> OWNER | Creekside Commons Crossing LP | <input checked="" type="checkbox"/> APPLICANT | The Dimension Group |
| CONTACT PERSON                 | Michael Hampton               | CONTACT PERSON                                | Keaton Mai          |
| ADDRESS                        | [REDACTED]                    | ADDRESS                                       | [REDACTED]          |
| CITY, STATE & ZIP              | [REDACTED]                    | CITY, STATE & ZIP                             | [REDACTED]          |
| PHONE                          | [REDACTED]                    | PHONE   | [REDACTED]          |
| E-MAIL                         | [REDACTED]                    | E-MAIL  | [REDACTED]          |

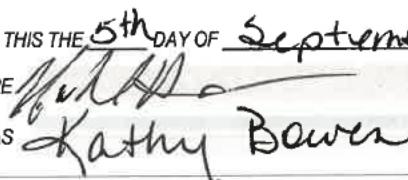
## NOTARY VERIFICATION [REQUIRED]

BEFORE ME, THE UNDERSIGNED AUTHORITY, ON THIS DAY PERSONALLY APPEARED Michael Hampton [OWNER] THE UNDERSIGNED, WHO STATED THE INFORMATION ON THIS APPLICATION TO BE TRUE AND CERTIFIED THE FOLLOWING:

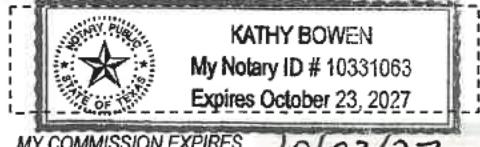
"I HEREBY CERTIFY THAT I AM THE OWNER FOR THE PURPOSE OF THIS APPLICATION; ALL INFORMATION SUBMITTED HEREIN IS TRUE AND CORRECT; AND THE APPLICATION FEE OF \$275 TO COVER THE COST OF THIS APPLICATION, HAS BEEN PAID TO THE CITY OF ROCKWALL ON THIS THE 5th DAY OF September 2025. BY SIGNING THIS APPLICATION, I AGREE THAT THE CITY OF ROCKWALL (I.E. "CITY") IS AUTHORIZED AND PERMITTED TO PROVIDE INFORMATION CONTAINED WITHIN THIS APPLICATION TO THE PUBLIC. THE CITY IS ALSO AUTHORIZED AND PERMITTED TO REPRODUCE ANY COPYRIGHTED INFORMATION SUBMITTED IN CONJUNCTION WITH THIS APPLICATION, IF SUCH REPRODUCTION IS ASSOCIATED OR IN RESPONSE TO A REQUEST FOR PUBLIC INFORMATION."

GIVEN UNDER MY HAND AND SEAL OF OFFICE ON THIS THE 5th DAY OF September 2025

OWNER'S SIGNATURE



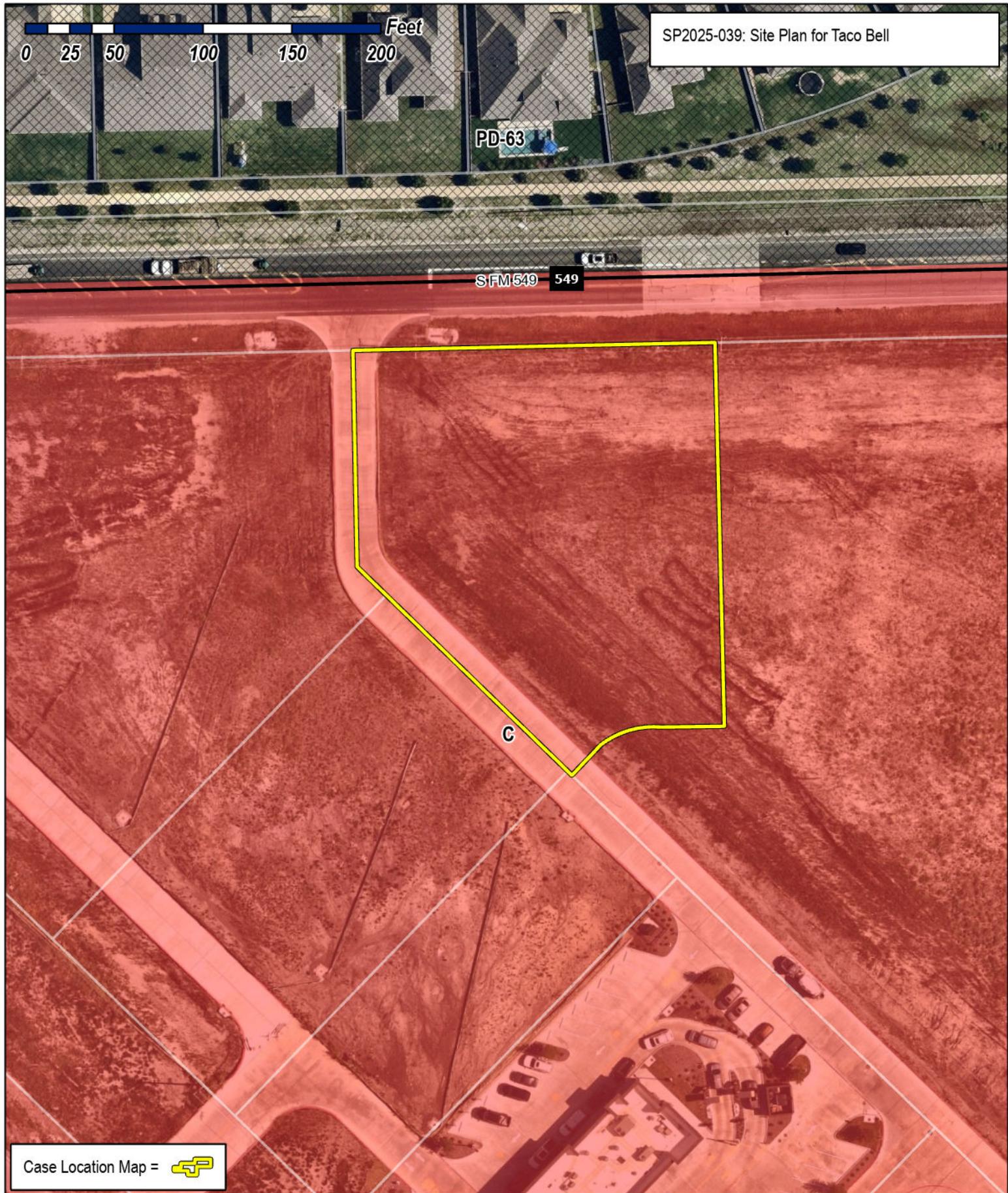
NOTARY PUBLIC IN AND FOR THE STATE OF TEXAS



KATHY BOWEN  
My Notary ID # 10331063  
Expires October 23, 2027

MY COMMISSION EXPIRES

10/23/27



## City of Rockwall

Planning & Zoning Department  
385 S. Goliad Street  
Rockwall, Texas 75087  
(P): (972) 771-7745  
(W): [www.rockwall.com](http://www.rockwall.com)

The City of Rockwall GIS maps are continually under development and therefore subject to change without notice. While we endeavor to provide timely and accurate information, we make no guarantees. The City of Rockwall makes no warranty, express or implied, including warranties of merchantability and fitness for a particular purpose. Use of the information is the sole responsibility of the user.





**Valley Bell Enterprises, LLC**  
101 E. Cherokee St.  
Jacksonville, TX 75766  
Phone (903) 586-1524  
Fax (903) 586-9644

September 9, 2025

City of Rockwall  
Attn: Planning Department  
385 S. Goliad  
Rockwall, Texas 75087

**Via Hand Delivery**

RE: Variance Request Letter for Proposed Taco Bell at Creekside Commons in South Rockwall

To Whom it May Concern:

Valley Bell Enterprises, LLC (“VBE”) proposes to construct a Taco Bell with a drive through to be located on a portion of Lot 18 in the Creekside Commons Addition in south Rockwall. The property is approximately 0.936 acres. VBE will develop and then lease the property to Southern Multifoods, LLC, a Taco Bell franchisee with 121 locations in Texas, including the restaurant locations in Lavon, Royse City, and Fate. Southern Multifoods, LLC has also operated the Taco Bell on Ridge Road in Rockwall for over twenty years and wishes to open a second location in Rockwall to serve more members of the community. Drew Durrett is the controlling manager of both VBE and Southern Multifoods, LLC.

In connection with the Planning and Zoning Commission hearing on September 30, 2025, please find enclosed the following information:

1. Site Plan
2. Landscape Plan
3. Photometric Plan
4. Lighting Cut Sheets
5. Building Elevations Plans
6. Material Sample Board

It is VBE’s intention to satisfy all the City’s ordinances and also match the building materials used by McDonald’s and 7-Eleven currently operating in the Creekside Commons development. However, VBE recognizes that the Taco Bell building does not meet the City’s ordinance requiring all structures less than 6,000 square feet to have a pitched roof system. Therefore, VBE is respectfully requesting a variance to this ordinance and is proposing the following compensatory measures:

1. Roof ladder and hatch will be located internally and invisible from public view.
2. The front / primary public right of way elevation consists of 48% stone.
3. All four elevations consist of more than City minimum 90% masonry requirement.
4. Projection length of entry elements on front and side elevations exceeds minimum required.
5. Extra elements (Pilasters) added to side entry elevation, pre-pay window on drive-thru elevation, and rear building corner
6. Provide a 25' landscape buffer along FM 549 (exceeding the 10' required landscape buffer) to comply with staff's recommendation to provide sufficient planting space outside of the existing utility easements.

Thank you for your consideration, and we look forward to discussing our project further with the City. Should you have any questions or need any additional information, please do not hesitate to contact me at 903-589-2005.

Regards,

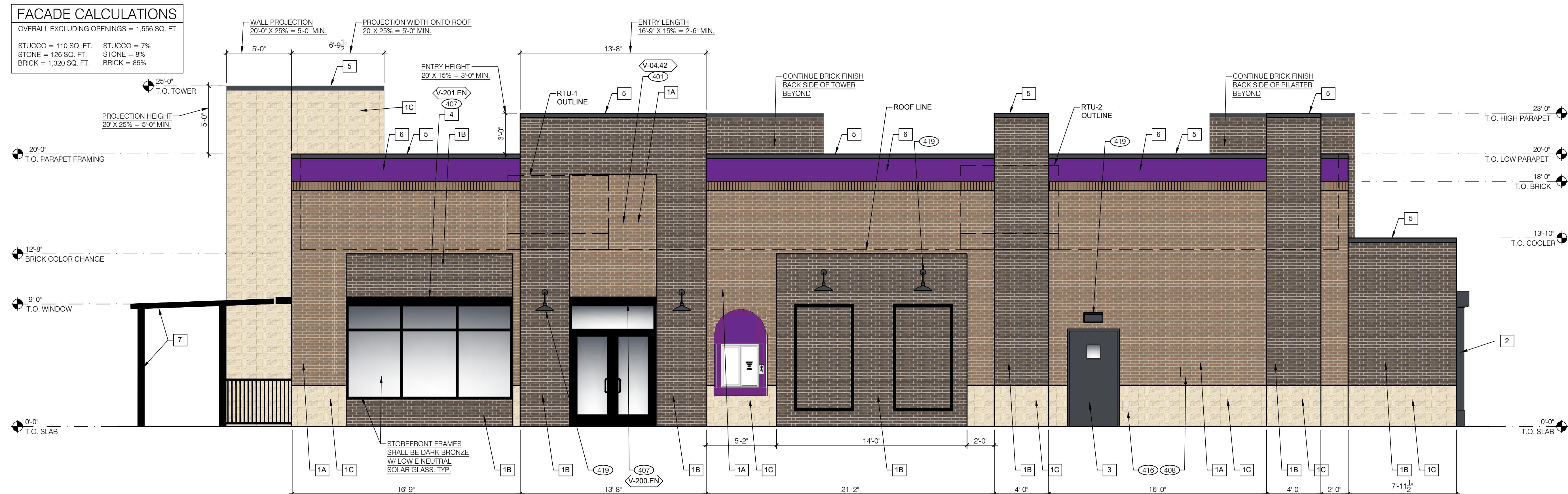


Michael A. Stansberry  
Director of Development, General Counsel

MAS

Enclosures





SIDE ELEVATION - WEST - SECONDARY BUILDING FAÇADE

1/4" = 1'-0"

1

**PAINT NOTES** F

**SIGNAGE** E

**GENERAL NOTES** C

| TYPE            | MARK     | QTY | ITEM DESCRIPTION                                     | LOC  |
|-----------------|----------|-----|--|------|
| TOWER           | V-09.14W | 2   | 14' WHITE CHANNEL LETTERS VERTICAL                   | A4.1 |
| SIDE ENTRY      | V-09.14W | 2   | 14' WHITE CHANNEL LETTERS VERTICAL                   | A4.1 |
| DRIVE THRU      | V-101.DT | 1   | DT AWNING (OVER DT) 9' 0" X 4' 0" BLACK              | A4.1 |
| EYEBROW AWNINGS | V-201.EN | 1   | FRONT EYEBROW (WINDOW) 13' 8" X 6' H X 1' 4" D BLACK | A4.1 |
|                 | V-203.EN | 1   | DT EYEBROW (WINDOW) 7' 8" X 6' H X 1' 4" D BLACK     | A4.1 |
|                 | V-201.EN | 1   | SIDE ENTRY EYEBROW (WINDOW) 12' 6" H X 1' 4" D BLACK | A4.0 |

MISCELLANEOUS

A. SEE SHEET A1.1 "WINDOW TYPES" FOR WINDOW ELEVATIONS.

SEALERS (REFER TO SPECS)

- A. SEALANT AT ALL WALL AND ROOF PENETRATIONS.
- B. SEALANT AT ALL WINDOW AND DOOR FRAMES AND JAMB. DO NOT SEAL SILL @ WINDOWS.
- C. APPLY NEOPRENE GASKET (CONT.) BETWEEN BUILDING AND CANOPY.

Critical Dimensions

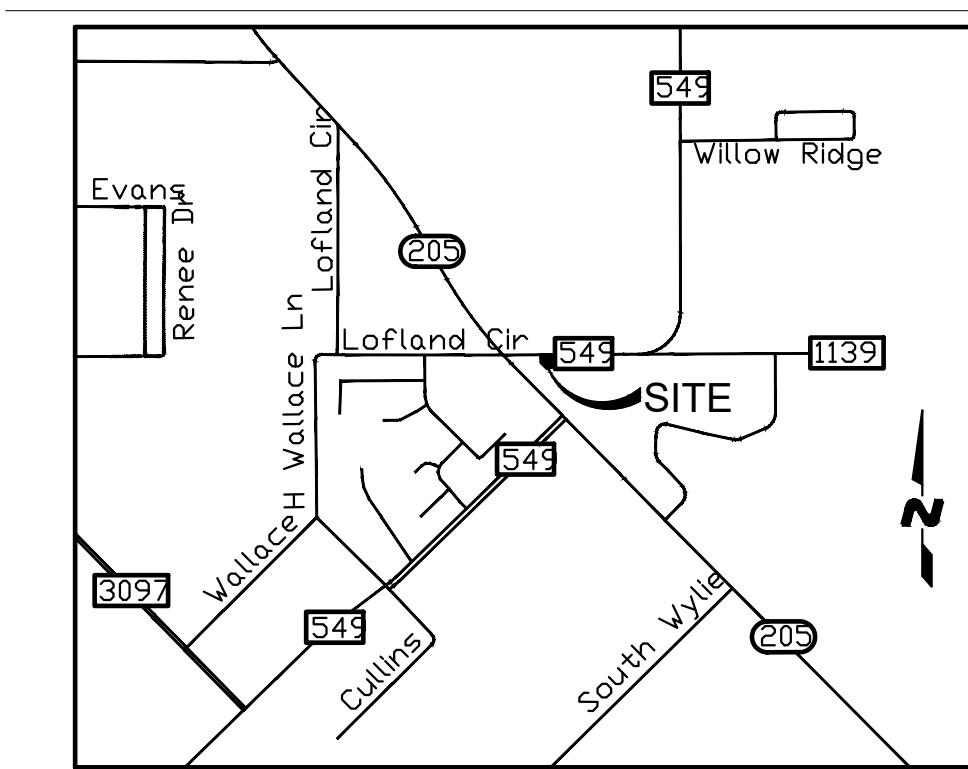
- A. REQUIRED CLEAR OPENING WIDTH TO ENSURE COORDINATION WITH STANDARD SIGNAGE/BUILDING ELEMENTS DIMENSIONS.

NOTE: NO EXTERIOR SIGNS ARE WITHIN THE SCOPE OF WORK COVERED BY THE BUILDING PERMIT APPLICATION. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE INSTALLATION OF ALL EXTERIOR SIGNS AND INSTALLATION OF REQUIRED BLOCKING AND ELECTRICAL CONNECTIONS FOR FINAL APPROVED SIGNS.

401 BUILDING SIGN BY VENDOR. REQUIRES ELECTRICAL, SEE ELECTRICAL PLANS.  
 407 METAL CANOPIES BY VENDOR. REQUIRES ELECTRICAL, SEE ELECTRICAL PLANS.  
 408 CO2 FILLER VALVE & COVER.  
 416 HOSE BIB BOX AT 18" A.F.F.  
 419 EXTERIOR LIGHT FIXTURE. SEE ELECTRICAL DRAWINGS.

**KEY NOTES**

A



**COLOR RENDERINGS**  
LOT 18, BLOCK A, CREEKSIDES COMMONS  
ADDITION

NWC STATE HIGHWAY 205 & F.M. 549  
A 0.936 ACRE TRACT OF LAND IN THE  
WILLIAM W. FORD SURVEY, ABST. NO 80  
CITY OF ROCKWALL, ROCKWALL  
COUNTY, TEXAS  
CITY PROJECT #SP2025-xxx  
August 27, 2025

| DATE       | REMARKS |
|------------|---------|
| 09-08-25   |         |
| END. MED40 |         |
| SEPT. 2023 |         |
| TBD        |         |
| TBD        |         |
| TBD        |         |
| LS         |         |
| WCS        |         |
| 25602      |         |

TACO BELL  
LOT 18, BLOCK A,  
CREEKSIDES COMMONS  
NWC STATE HWY 205 & FM 549  
ROCKWALL, TX



ENDEAVOR 2.0  
EXTERIOR  
ELEVATIONS

| SYMBOL | ITEM/MATERIAL         | MANUFACTURER   | COLOR                                 |
|--------|-----------------------|----------------|---------------------------------------|
| 1A     | BRICK                 | ACME BRICK     | MUSHROOM BROWN                        |
| 1B     | BRICK                 | ACME BRICK     | EBONY                                 |
| 1C     | STONE                 | BLACKSON BRICK | COTTONWOOD (VERIFY)                   |
| 2      | SCUPPERS & DOWNSPOUTS | -              | CYBERSPACE (SW7076) KYNAR 500 COATING |
| 3      | HOLLOW METAL DOOR     | -              | CYBERSPACE (SW7076) KYNAR 500 COATING |
| 4      | AWNINGS               | SIGNAGE VENDOR | BLACK BY THE SIGNAGE VENDOR           |
| 5      | METAL PARAPET CAP     | -              | CYBERSPACE (SW7076) KYNAR 500 COATING |
| 6      | STUCCO                | -              | IMPULSIVE PURPLE (SW6832), SEMI-GLOSS |
| 7      | PATH STRUCTURE        | -              | RAI 9011 GRAPHITE BLACK               |

EXTERIOR FINISH SCHEDULE

| ENGINEER/APPLICANT   | OWNER   | DEVELOPER   |
|--|---|---|
| THE DIMENSION GROUP<br>10755 SANDHILL ROAD<br>DALLAS, TX, 75238<br>PHONE: (214) 343-9400<br>CONTACT: KEATON L. MAI, PE | PRUDENT DEVELOPMENT<br>10755 SANDHILL ROAD<br>DALLAS, TX 75238<br>PHONE: (214) 271-4630<br>CONTACT: MICHAEL HAMPTON | VALLEY BELLS ENTERPRISES, LLC<br>101 E. CHEROKEE STREET<br>JACKSONVILLE, TX 75766<br>PHONE: (903) 586-1524<br>CONTACT: MIKE STRANSBERRY |

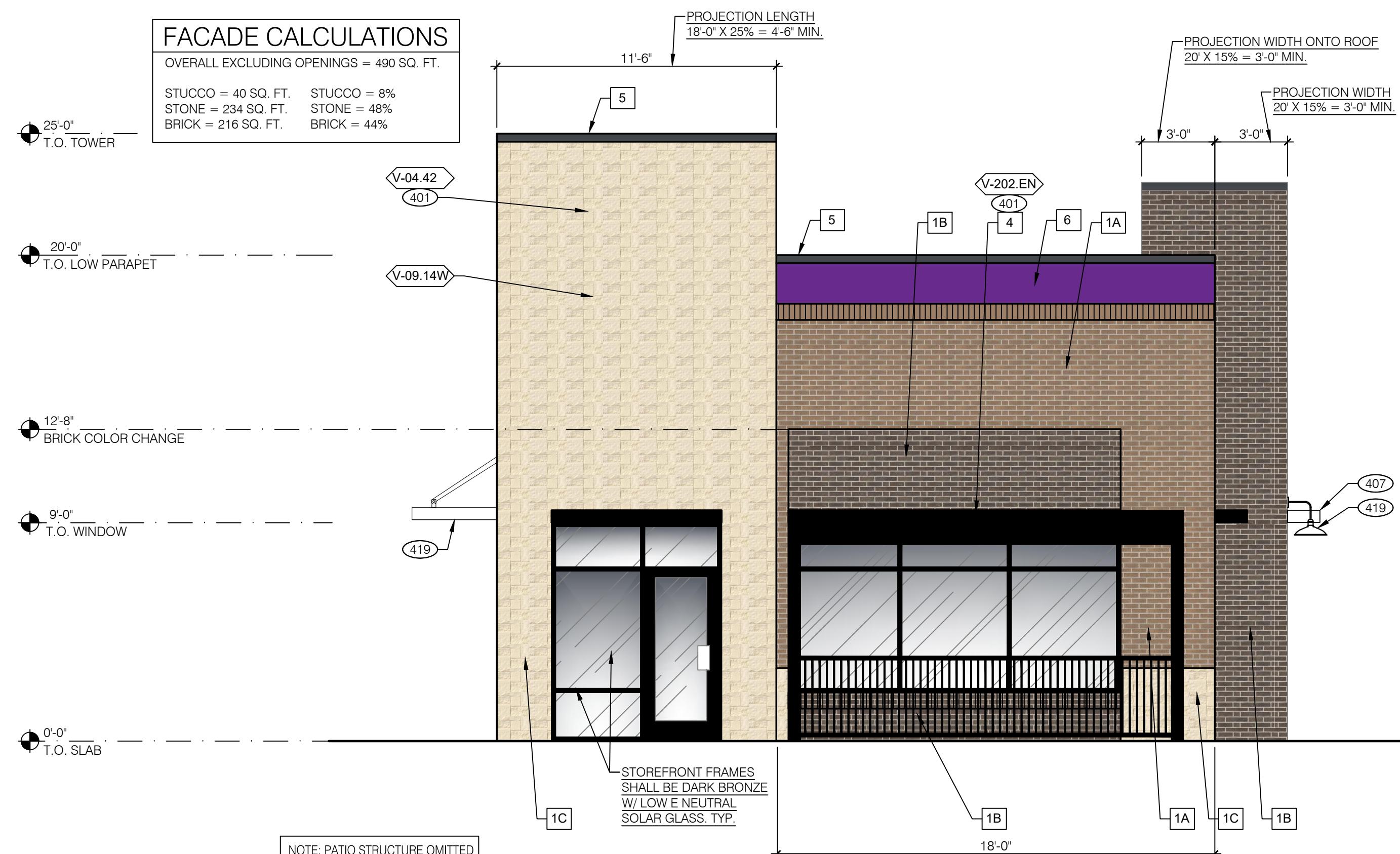
B

A4.0

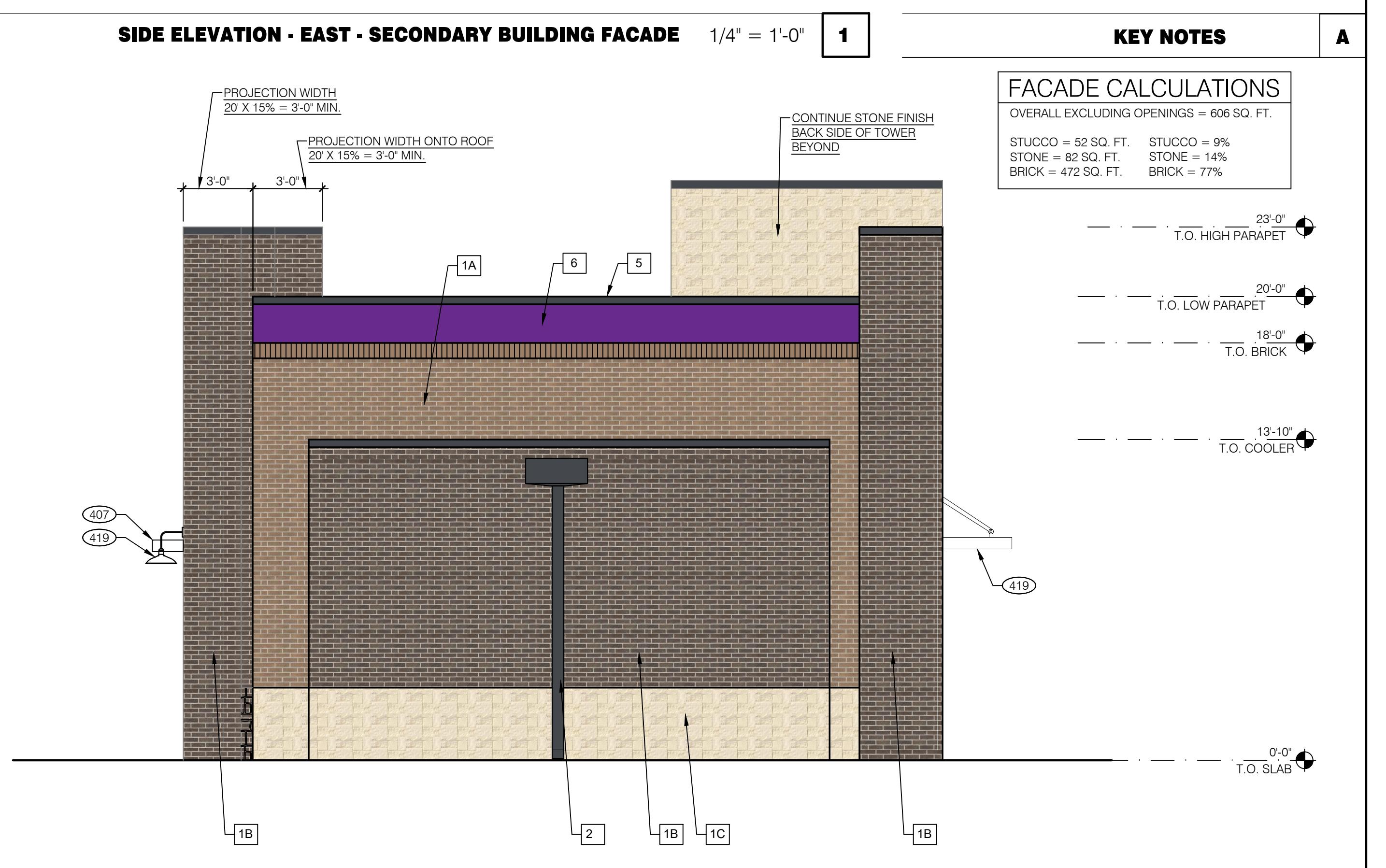
**LONNIE SMITH**  
ARCHITECT  
P.O. BOX 1925  
Richmond, KY 40475  
phone 859-771-5638



- 401 BUILDING SIGN BY VENDOR. REQUIRES ELECTRICAL, SEE ELECTRICAL PLANS.
- 402 DRIVE THRU WINDOW. SEE SHEET A1.0 AND A1.1.
- 407 METAL CANOPIES BY VENDOR. REQUIRES ELECTRICAL, SEE ELECTRICAL PLANS.
- 409 ASSUME D/T LANE SURFACE IS 6" BELOW THE FINISH FLOOR. REFER TO GRADING & SITE PLAN.
- 411 CONCRETE CURB.
- 419 EXTERIOR LIGHT FIXTURE. SEE ELECTRICAL DRAWINGS.



**FRONT ELEVATION - NORTH - PRIMARY BUILDING FAÇADE** 1/4" = 1'-0" **2**



**REAR ELEVATION - SOUTH - SECONDARY BUILDING FAÇADE** 1/4" = 1'-0" **3**

| DATE | REMARKS |
|------|---------|
|      |         |
|      |         |
|      |         |
|      |         |
|      |         |
|      |         |
|      |         |

PLAN DATE: 09-08-25  
 BUILDING TYPE: END. MED40  
 PLAN VERSION: SEPT. 2023  
 RAND DESIGNER: TBD  
 SITE NUMBER: TBD  
 STORE NUMBER: TBD  
 A/PM: LS  
 DRAWN BY.: WCS  
 JOB NO.: 25602

**TACO BELL**  
LOT 18, BLOCK A,  
CREEKSIDE COMMONS  
NWC STATE HWY 205 & FM 549  
ROCKWALL, TX



# ENDEAVOR 2.0

## EXTERIOR ELEVATIONS

# A4.1



## PLANTING SPECIFICATIONS

### GENERAL

A. **QUALIFICATIONS OF LANDSCAPE CONTRACTOR**  
 1. ALL LANDSCAPE WORK SHOWN ON THESE PLANS SHALL BE PERFORMED BY A SINGLE FIRM PROFESSIONAL LANDSCAPE CONTRACTOR.  
 2. A LIST OF SUCCESSFULLY COMPLETED PROJECTS OF THIS TYPE, SIZE AND NATURE MAY BE REQUESTED BY THE OWNER FOR FURTHER QUALIFICATION MEASURES.  
 3. THE LANDSCAPE CONTRACTOR SHALL HOLD A VALID NURSERY AND FLORAL CERTIFICATE ISSUED BY THE TEXAS DEPARTMENT OF AGRICULTURE, AS WELL AS OPERATE UNDER A COMMERCIAL PESTICIDE APPLICATOR LICENSE ISSUED BY EITHER THE TEXAS DEPARTMENT OF AGRICULTURE OR THE TEXAS STRUCTURAL PEST CONTROL BOARD.

B. **SCOPE OF WORK**  
 1. WORK PERFORMED BY THE CONTRACTOR SHALL INCLUDE THE PURCHASING AND PAYMENT OF ALL MATERIALS, LABOR, GENERAL EQUIPMENT, LICENSES, TAXES AND ANY OTHER ITEMS THAT ARE NECESSARY FOR THE EXECUTION, INSTALLATION AND COMPLETION OF ALL WORK, SPECIFIED HEREIN AND / OR SHOWN ON THE LANDSCAPE PLANS, NOTES, AND DETAILS.  
 2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE LAWS, CODES AND REGULATIONS OF THE STATE AND LOCAL JURISDICTION OVER SUCH WORK, INCLUDING ALL INSPECTIONS AND PERMITS REQUIRED BY FEDERAL, STATE AND LOCAL AUTHORITIES IN SUPPLY, TRANSPORTATION AND INSTALLATION OF MATERIALS.  
 3. THE LANDSCAPE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITY LINES (WATER, SEWER, ELECTRICAL, TELEPHONE, GAS, CABLE, TELEVISION, ETC.) PRIOR TO THE START OF ANY WORK.

### PRODUCTS

A. ALL MANUFACTURED PRODUCTS SHALL BE NEW.  
 B. CONTAINER AND BALED-AND-BURLAPPED PLANTS:  
 1. FURRY LEAFED PLANTS, FREE OF DISEASE, INSECTS, EGGS, LARVAE, AND DEFECTS SUCH AS KNOTS, SUN SCALD, INJURIES, ABRASIONS, AND DISFIGUREMENT. ALL PLANTS WITHIN A SPECIES SHALL HAVE SIMILAR SIZE, AND SHALL BE OF A FORM TYPICAL FOR THE SPECIES. ALL TREES SHALL BE OBTAINED FROM SOURCES WITHIN 200 MILES OF THE PROJECT SITE, AND WITHIN SIMILAR CLIMATE ZONES.  
 2. ROOT SYSTEMS SHALL BE HEALTHY, DENSELY BRANCHED ROOT SYSTEMS, NON-POUNDED, FREE FROM ENCIRCLING AND/OR BURLED-AND-BURLAPPED (B&B), UNLESS SPECIFIED ON THE PLANTING LEGEND. BARE-ROOT TREES ARE NOT ACCEPTABLE.  
 3. TREES PLANTED FROM CONTAINERS OR BALED-AND-BURLAPPED (B&B), UNLESS SPECIFIED ON THE PLANTING LEGEND. BARE-ROOT TREES ARE NOT ACCEPTABLE.  
 4. ANY PLANT DEEMED UNACCEPTABLE BY THE LANDSCAPE ARCHITECT OR OWNER SHALL BE IMMEDIATELY REMOVED FROM THE SITE AND SHALL BE REPLACED WITH AN ACCEPTABLE PLANT OF LIKE TYPE AND SIZE AT THE CONTRACTOR'S OWN EXPENSE. ANY PLANTS APPEARING TO BE UNHEALTHY, DISEASED, OR INJURED SHALL BE IMMEDIATELY REMOVED AND REPLACED BY THE LANDSCAPE ARCHITECT AND OWNER SHALL BE THE SOLE JUDGES AS TO THE ACCEPTABILITY OF PLANT MATERIAL.  
 5. ALL TREES SHALL BE STANDARD IN FORM, UNLESS OTHERWISE SPECIFIED. TREES WITH CENTRAL LEADERS WILL NOT BE ACCEPTED IF LEADER IS DAMAGED OR REMOVED. PRUNE ALL DAMAGED TWIGS AFTER PLANTING.  
 6. CALIPER MEASUREMENTS FOR STANDARD (SINGLE TRUNK) TREES SHALL BE AS FOLLOWS: SIX INCHES ABOVE THE ROOT FLARE FOR TREES UP TO AND INCLUDING FOUR INCHES IN CALIPER, AND TWELVE INCHES ABOVE THE ROOT FLARE FOR TREES EXCEEDING FOUR INCHES IN CALIPER.  
 7. MULCH: THE CALIPER OF THE TREE SHALL BE USED TO DETERMINE THE OVERALL CALIPER. MEASURED FROM THE TOP OF THE ROOT BALL, WHERE CALIPER MEASUREMENTS ARE USED, THE CALIPER SHALL BE CALCULATED AS ONE-HALF OF THE SUM OF THE CALIPER OF THE THREE LARGEST TRUNKS.  
 8. ANY TREE OR SHRUB SHOWN TO HAVE EXCESS SOIL PLACED ON TOP OF THE ROOT BALL, SO THAT THE ROOT FLARE HAS BEEN COMPLETELY COVERED, SHALL BE REJECTED.  
 C. SEED: ALL SEED SHALL BE PLANTED IN A FRESH, SOILLESS MEDIUM, WITH MAXIMUM PERCENTAGES OF PURITY, GERMINATION, AND MINIMUM PERCENTAGE OF WEED SEED AS INDICATED ON PLANS. EACH BAG OF SEED SHALL BE ACCOMPANIED BY A TAG FROM THE SUPPLIER INDICATING THE COMPOSITION OF THE SEED.  
 D. TOPSOIL: ALL SOIL SHALL BE FRESH, SOILLESS, LOAM TOPSOIL, FREE OF STONES LARGER THAN 1/4 INCH, FOREIGN MATTER, PLANTS, ROOTS, AND SEEDS.  
 E. COMPOST: WELL-COMPRESSED, STABLE, AND WEED-FREE ORGANIC MATTER, pH RANGE OF 5.5 TO 8; MOISTURE CONTENT 35 TO 55 PERCENT BY WEIGHT; 100 PERCENT PASSING THROUGH 3/4-INCH SIEVE; SOILLESS SALT CONTENT OF 5 TO 10 DECISEMISMO; NOT EXCEEDING 0.5 PERCENT INERT CONTAMINANTS AND FREE OF SUBSTANCES TOXIC TO PLANTINGS. NO MANURE OR ANIMAL-BASED PRODUCTS SHALL BE USED.  
 F. FERTILIZER: INORGANIC FERTILIZER CONSISTING OF NITROGEN, PHOSPHORUS, POTASSIUM, AND OTHER ELEMENTS IN PROPER AMOUNTS, AND RELEASE RATES RECOMMENDED IN A SOIL REPORT FROM A QUALIFIED SOIL TESTING AGENT, IF PROVIDED.  
 G. MULCH: SIZE AND TYPE AS INDICATED ON PLANS, FREE FROM DELETERIOUS MATERIALS AND SUITABLE AS A TOP DRESSING OF TREES AND SHRUBS.  
 H. TREE STAKING AND GUYLING:  
 1. USE METAL TPOSTS.  
 2. GUY AND TIE WIRE: ASTM A 61, CLASS 1, GALVANIZED-STEEL WIRE, 2-STRAND, TWISTED, 0.106 INCH DIAMETER.  
 3. STRAP CHAIN GUARD: EINFORCED NYLON OR CANVAS AT LEAST 1-1/2 INCH WIDE, WITH ONE INCH HOLE TO PROTECT TREES FROM DAMAGE.  
 J. STEEL EDGING: PROFESSIONAL STEEL EDGING, 14 GAUGE THICK X 2 INCHES WIDE, FACTORY PAINTED DARK GREEN. ACCEPTABLE MANUFACTURERS INCLUDE COLMET OR APPROVED EQUAL.  
 K. PRE-EMERGENT HERBICIDES: ANY GRANULAR, NON-STAINING PRE-EMERGENT HERBICIDE THAT IS LABELED FOR THE SPECIFIC ORNAMENTALS OR TURF ON WHICH IT WILL BE UTILIZED. PRE-EMERGENT HERBICIDES SHALL BE APPLIED PER THE MANUFACTURER'S LABELED RATES.

### METHODS

A. **SOIL PREPARATION**  
 1. BEFORE STARTING WORK, THE LANDSCAPE CONTRACTOR SHALL VERIFY THAT THE GRADE OF ALL LANDSCAPE AREAS ARE WITHIN +/- 1' OF FINISH GRADE. THE CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY SHOULD ANY DISCREPANCIES EXIST.  
 2. **SOIL TESTING**  
 a. AFTER FINISH GRADES HAVE BEEN ESTABLISHED, CONTRACTOR SHALL HAVE SOIL SAMPLES FROM THE PROJECT'S LANDSCAPE AREAS TESTED BY AN ESTABLISHED SOIL TESTING LABORATORY. EACH SAMPLE TESTED SHALL BE FROM A DIFFERENT AREA AND SHALL BE A QUANTITY OF SOIL TAKEN FROM BETWEEN THE FINISH SURFACE AND 6" DEPTH. IF NO SAMPLE LOCATIONS ARE INDICATED ON THE PLANS, THE CONTRACTOR SHALL TAKE A MINIMUM OF THREE SAMPLES FROM VARIOUS REPRESENTATIVE LOCATIONS FOR TESTING.  
 b. THE CONTRACTOR SHALL HAVE THE SOIL TESTED FOR AGRICULTURAL PURPOSES RESULTS FOR THE following: NITROGEN, PHOSPHORUS, POTASSIUM, ORGANIC MATTER CONTENT, SALT (CEC), LIME, SODIUM ABSORPTION RATIO (SAR) AND BORON CONTENT.  
 c. THE CONTRACTOR SHALL ALSO SUBMIT THE PLANT'S PLANT LIST TO THE LABORATORY ALONG WITH THE SOIL SAMPLES.  
 d. THE CONTRACTOR PROVIDED BY THE LABORATORY SHALL CONTAIN RECOMMENDATIONS FOR THE FOLLOWING (AS APPROPRIATE): SEPARATE SOIL PREPARATION AND BACKFILL MIX, RECOMMENDATIONS FOR GENERAL ORNAMENTAL PLANTS, XERIC PLANTS, TURF, AND NATIVE SEED, AS WELL AS PRE-PLANT FERTILIZER APPLICATIONS AND RECOMMENDATIONS FOR ANY OTHER PLANTED SPECIES. THE CONTRACTOR SHALL ALSO PROVIDE A FERTILIZER PROGRAM FOR THE ESTABLISHED PLANT AND FOR LONG-TERM MAINTENANCE.  
 3. THE CONTRACTOR SHALL INSTALL SOIL AMENDMENTS AND FERTILIZERS PER THE SOIL REPORT RECOMMENDATIONS. ANY CHANGE IN COST DUE TO THE SOIL REPORT RECOMMENDATIONS, EITHER INCREASE OR DECREASE, SHALL BE SUBMITTED TO THE OWNER WITH THE REPORT.  
 4. **FOR TURF**  
 a. TURF: INCORPORATE THE FOLLOWING AMENDMENTS INTO THE TOP 8" OF SOIL BY MEANS OF ROTOTILLING AFTER CROSS-RIPPING:  
 i. NITROGEN STABILIZED ORGANIC AMENDMENT - 4 CU. YDS. PER 1,000 S.F.  
 ii. 10-10-10 PLANT TURF FERTILIZER (10-20-10 OR SIMILAR, SLOW RELEASE, ORGANIC) - 15 LBS PER 1,000 S.F.  
 iii. "CLAY BUSTER" OR EQUAL - USE MANUFACTURER'S RECOMMENDED RATE.  
 b. TREES, SHRUBS, AND PERENNIALS: INCORPORATE THE FOLLOWING AMENDMENTS INTO THE TOP 12" OF SOIL BY MEANS OF ROTOTILLING AFTER CROSS-RIPPING:  
 i. NITROGEN STABILIZED ORGANIC AMENDMENT - 4 CU. YDS. PER 1,000 S.F.  
 ii. 12-12-12 FERTILIZER (OR SIMILAR, ORGANIC, SLOW RELEASE) - 10 LBS. PER CU. YD.  
 iii. "CLAY BUSTER" OR EQUAL - USE MANUFACTURER'S RECOMMENDED RATE.  
 5. IN THE CONTEXT OF THESE PLANS, NOTES, AND SPECIFICATIONS, "FINISH GRADE" REFERS TO THE FINAL ELEVATION OF THE SOIL SURFACE (NOT TOP OF MULCH) AS INDICATED ON THE GRADING PLANS.  
 a. BEFORE STARTING WORK, THE LANDSCAPE CONTRACTOR SHALL VERIFY THAT THE ROUGH GRADES OF ALL LANDSCAPE AREAS ARE WITHIN +/- 1' OF FINISH GRADE. SEE SPECIFICATIONS FOR THE ROUGH GRADE OF ALL LANDSCAPE AREAS AND PLANTING AREAS.  
 b. CONSTRUCT AND MAINTAIN FINISH GRADES AS SHOWN ON GRADING PLANS, AND CONSTRUCT AND MAINTAIN SLOPES AS RECOMMENDED BY THE GEOTECHNICAL REPORT. ALL LANDSCAPE AREAS SHALL HAVE POSITIVE DRAINAGE AWAY FROM STRUCTURES AT THE MINIMUM SLOPE GRADE. TAPERING OF THE FINISH GRADE AT THE PLANTING AREAS AND AREAS OF POTENTIAL PONDING SHALL BE REGRADED TO BLEND IN WITH THE SURROUNDING GRADES AND ELIMINATE PONDING POTENTIAL.  
 c. THE LANDSCAPE CONTRACTOR SHALL DETERMINE WHETHER OR NOT THE EXPORT OF ANY SOIL WILL BE REQUIRED AND TAKE INTO ACCOUNT THE ROUGH GRADE PROVIDED, THE AMOUNT OF SOIL AMENDMENT TO BE ADDED BASED ON A SOIL TEST, PER SPECIFICATIONS, AND THE FINISH GRADES TO BE ESTABLISHED.  
 d. AFTER INSTALLING SOIL AMENDMENTS IN SHRUB AREAS, AND IN ORDER TO ALLOW FOR MULCH DEPTH, ENSURE THAT THE FINISH GRADE IMMEDIATELY ADJACENT TO WALKS AND OTHER AREAS IS APPROXIMATELY 18" AWAY FROM THE SURFACE.  
 e. AFTER INSTALLING SOIL AMENDMENTS IN TURF AREAS, ENSURE THAT THE FINISH GRADE IN AREA IMMEDIATELY ADJACENT TO WALKS AND OTHER WALKING SURFACES IS 1" BELOW FINISH GRADE. TAPERING OF THE FINISH GRADE AT THE PLANTING AREAS AND AREAS OF POTENTIAL PONDING SHALL NOT CONFLICT WITH SOIL AMENDMENTS SHOWN ON THE GRADING PLANS, GEOTECHNICAL REPORT, THESE NOTES AND PLANS, AND ACTUAL CONDITIONS. THE CONTRACTOR SHALL IMMEDIATELY BRING SUCH ITEMS TO THE ATTENTION OF THE LANDSCAPE ARCHITECT, GENERAL CONTRACTOR, AND OWNER.  
 f. ONCE SOIL PREPARATION IS COMPLETE, THE LANDSCAPE CONTRACTOR SHALL ENSURE THAT THERE ARE NO DEBRIS, TRASH, OR STONES LARGER THAN 1" REMAINING IN THE TOP 8" OF SOIL.

### CAUTION NOTICE TO CONTRACTORS

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUCH CALL 811 AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THESE PLANS.

B. **SUBMITTALS**  
 1. THE CONTRACTOR SHALL PROVIDE SUBMITTALS AND SAMPLES, IF REQUIRED, TO THE LANDSCAPE ARCHITECT, AND RECEIVE APPROVAL IN WRITING FOR SUCH SUBMITTALS BEFORE WORK COMMENCES.  
 2. SUBMITTALS SHALL INCLUDE PHOTOS OF PLANTS WITH A RULER OR MEASURING STICK FOR SCALE, PLANTING NOTES, AND A COPY OF THE MANUFACTURER'S PRE-EMERGENT HERBICIDE RECOMMENDATIONS FROM THE TESTING LAB (INCLUDING COMPOST AND FERTILIZER RATES AND TYPES, AND OTHER AMENDMENTS FOR TREES/SHRUBS, TURF, AND SEED AREAS AS MAY BE APPROPRIATE).  
 3. SUBMITTALS ALSO INCLUDE MANUFACTURER CUT SHEETS FOR PLANTING ACCESSORIES SUCH AS TREE STAKES AND TIRES, EDGING, AND LANDSCAPE FABRICS (IF ANY).  
 4. WHERE MULTIPLE ITEMS ARE SHOWN ON A PAGE, THE CONTRACTOR SHALL CLEARLY INDICATE THE ITEM BEING CONSIDERED.

C. **GENERAL PLANTING**  
 1. EXCEPT IN AREAS TO BE PLANTED WITH ORNAMENTAL GRASSES, APPLY PRE-EMERGENT HERBICIDES AT THE MANUFACTURER'S RECOMMENDED RATE.  
 2. TRENCHING NEAR EXISTING TREES:  
 a. TRENCHING SHALL NOT DISTURB ROOTS 1-1/2" AND LARGER IN DIAMETER WITHIN THE CRITICAL ROOT ZONE (CRZ) OF EXISTING TREES, AND SHALL EXERCISE ALL POSSIBLE CARE AND PRECAUTIONS TO AVOID INJURY TO ROOTS, TRUNKS, AND BRANCHES. THE CRZ IS DEFINED AS A CIRCULAR AREA EXTENDING OUTWARD FROM THE TREE TRUNK, WITH A RADIUS EQUAL TO ONE EVERY 1' OF TRUNK DIAMETER AT BREAST HEIGHT (4.5' ABOVE THE GROUND AT THE TIME OF PLANTING).  
 b. ALL EXCAVATION WITHIN THE CRZ SHALL BE PERFORMED USING HAND TOOLS. NO MACHINE EXCAVATION OR TRENCHING OF ANY KIND SHALL BE ALLOWED WITHIN THE CRZ.  
 c. ALTERATION OR REMOVAL OF PIPE OR WIRE TRENCHES 1-1/2" AND LARGER IN DIAMETER, WHERE SUCH ROOTS ARE LOCATED, SHALL BE TUNNELLED UNDER THE PIPE, TUNNEL UNDER AND KEEP MOIST, CLOSE ALL TRENCHES WITHIN THE CANOPY DRIP LINES WITHIN 24 HOURS.  
 d. ALL SEVERED ROOTS SHALL BE HAND PRUNED WITH SHARP TOOLS AND ALLOWED TO DRY-AR. DO NOT USE ANY SORT OF SEALERS OR WOUND PAINTS.

C. **TREE PLANTING**  
 1. TREE PLANTING HOLES SHALL BE EXCAVATED TO MINIMUM WIDTH OF TWO TIMES THE WIDTH OF THE ROOTBALL, AND TO A DEPTH EQUAL TO THE DEPTH OF THE ROOTBALL LESS TWO TO FOUNCES. THE EXCAVATION SHALL NOT DISTURB THE NATURAL GROWTH OF THE TREE.  
 2. REMOVE ANY GLAZING THAT MAY HAVE BEEN CAUSED DURING THE EXCAVATION OF THE HOLE.  
 3. FOR CONTAINER AND BOX TREES, TO REMOVE ANY POTENTIALLY GIRDLING ROOTS AND OTHER ROOT DEFECTS, THE CONTRACTOR SHALL REMOVE A 1" LAYER OFF OF THE SIDES AND BOTTOM OF THE ROOTBALL, AND ALL EXCAVATION SHALL BE PERFORMED AS CLOSE AS POSSIBLE TO THE PLANTING HOLE.  
 4. INSTALL THE TREE ON UNDISTURBED SUBGRADE SO THAT THE TOP OF THE ROOTBALL IS TWO TO FOUR INCHES ABOVE THE SURROUNDING GRADE.  
 5. BACKFILL THE HOLE UTILIZING THE EXISTING TOPSOIL FROM ON-SITE. ROCKS LARGER THAN 1" IN DIAMETER SHALL NOT BE USED. ADDITIONAL SOIL MAY BE REQUIRED TO ACCOMPLISH THIS. IMPORTED TOPSOIL SHALL BE OF SIMILAR TEXTURAL CLASS AND COMPOSITION IN THE ON-SITE SOIL.  
 6. PLACEMENT OF THE TREE: CUT OFF BOTTOM 1/3 OF WIRE BASKET BEFORE PLACING TREE IN HOLE, CUT OFF AND REMOVE REMAINDER OF BASKET. PLANTING HOLE SHALL BE TUNNELLED UNDER AND KEEP MOIST, CLOSE ALL TRENCHES WITHIN THE CANOPY DRIP LINES WITHIN 24 HOURS.  
 7. PREVAILING WINDS: STAKE STAYS SHOULD BE TIED LOW TO THE GROUND. CONTRACTOR'S DISCRETION. SHOULD ANY TREES FALL OR LEAN, THE LANDSCAPE CONTRACTOR SHALL STRAIGHTEN THE TREE OR REPLACE IT SHOULD IT BECOME DAMAGED. TREE STAKING SHALL ADHERE TO THE FOLLOWING GUIDELINES:  
 a. 1-2' TREES: TWO STAKES PER TREE  
 b. 2-1/2"-4' TREES: THREE STAKES PER TREE  
 c. TREES OVER 4' CALIPER: GUY AS NEEDED  
 d. FOR BAB TREES: THREE STAKES PER TREE MINIMUM, QUANTITY AND POSITIONS AS NEEDED TO STABILIZE THE TREE.  
 8. UPON COMPLETION OF PLANTING, CONSTRUCT AN EARTH WATERING BASIN AROUND THE TREE. COVER THE INTERIOR OF THE TREE RING WITH MULCH (TYPE AND DEPTH PER PLANS). UNDER NO CIRCUMSTANCES SHALL THE MULCH BE PLACED ON THE TRUNK.  
 9. PLACEMENT OF MULCH: PLACEMENT OF MULCH SHALL BE BURIED WITHIN 6" OF THE TRUNK.  
 D. **SHRUB, PERENNIAL, AND GROUNDCOVER PLANTING**  
 1. DIG THE PLANTING HOLES TWICE AS WIDE AND 2' LESS DEEP THAN EACH PLANT'S ROOTBALL. INSTALL THE PLANT IN THE HOLE, BACKFILL AROUND THE PLANT WITH SOIL AMENDED PER SOIL TEST RECOMMENDATIONS.  
 2. PLANTING: PLANT COMPLETELY. INSTALL MULCH (TYPE AND DEPTH PER PLANS) OVER ALL PLANTING AREAS EXCEPT FOR SODDED AND SEEDED AREAS, LEAVING NO EXPOSED GROUND.

F. **SODDING**  
 1. SO VARIETY TO BE AS SPECIFIED ON THE LANDSCAPE PLAN.  
 2. LAY THE SOD WITHIN 24 HOURS FROM THE TIME OF STRIPPING. DO NOT LAY IF THE GROUND IS FROZEN.  
 3. LAY THE SOD TO FORM A SOLID MASS WITH TIGHTLY FITTED JOINTS. BUTT EDGES AND SIDES OF SOD STRIPS. DO NOT OVERLAP. STAGGER STRIPS TO OFFSET JOINTS IN ADJACENT COURSES.  
 4. ROLL THE SOD ENSURE GOOD CONTACT OF THE SOD'S ROOT SYSTEM WITH THE SOIL.  
 5. WATER THE SOD THOROUGHLY WITH A FINE SPRAY IMMEDIATELY AFTER PLANTING TO OBTAIN AT LEAST SIX INCHES OF PENETRATION INTO THE SOIL BELOW THE SOD.  
 G. **MULCH**  
 1. INSTALL MULCH TOPDRESSING, TYPE AND DEPTH PER MULCH NOTE, IN ALL PLANTING AREAS AND TREE RINGS.  
 2. DO NOT INSTALL MULCH WITHIN 6" OF TREE ROOT FLARE AND WITHIN 24" OF HABITABLE STRUCTURES, EXCEPT AS MAY BE NOTED ON THESE PLANS. MULCH COVER WITHIN 6" OF CONCRETE WALKS AND CURBS SHALL NOT PROTRUDE ABOVE THE FINISH SURFACE OF THE WALKS AND CURBS. MULCH WITHIN 12" OF WALLS SHALL BE AT LEAST 3" LOWER THAN THE TOP OF WALL.  
 H. **CLEAN UP**  
 1. DURING LANDSCAPE PREPARATION AND PLANTING, KEEP ALL PAVEMENT CLEAN AND ALL WORK AREAS IN A NEAT, ORDERLY CONDITION.  
 2. REMOVE ALL EXCAVATED MATERIALS OFF THE PROJECT SITE.

I. **INSPECTION AND ACCEPTANCE**  
 1. UPON COMPLETION OF THE WORK, THE LANDSCAPE CONTRACTOR SHALL PROVIDE THE SITE CLEAN, FREE OF DEBRIS AND TRASH, AND SUITABLE FOR USE AS INTENDED. THE LANDSCAPE CONTRACTOR SHALL NOT PLANT ANY PLANTS UNTIL APPROVED BY THE LANDSCAPE ARCHITECT.  
 2. WHEN THE INSPECTED PLANTING WORK DOES NOT MEET THE CONTRACT DOCUMENTS, THE LANDSCAPE CONTRACTOR SHALL REPLACE AND/OR REPAIR THE REJECTED WORK TO THE OWNER'S SATISFACTION WITHIN 24 HOURS.  
 3. THE LANDSCAPE MAINTENANCE PERIOD WILL NOT COMMENCE UNTIL THE LANDSCAPE WORK HAS BEEN INSPECTED AND FOUND TO BE ACCEPTABLE. AT THAT TIME, A WRITTEN NOTICE OF FINAL ACCEPTANCE WILL BE ISSUED BY THE OWNER, AND THE MAINTENANCE AND GUARANTEE PERIODS WILL COMMENCE.  
 J. **LANDSCAPE MAINTENANCE**  
 1. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL WORK SHOWN ON THESE PLANS FOR 90 DAYS BEYOND FINAL ACCEPTANCE OF ALL LANDSCAPE WORK BY THE OWNER. LANDSCAPE MAINTENANCE SHALL INCLUDE WEEKLY SITE VISITS FOR THE FOLLOWING ACTIONS (AS APPROPRIATE): PROPER PRUNING, RESTAKING OF TREES, RESTEPPING OF PLANTS THAT HAVE MOVED, AND ALL OTHER MAINTENANCE OF PLANTS, WALKS, AND CURBS. MAINTENANCE SHALL NOT INCLUDE TREATMENT FOR INSECTS AND DISEASES, REMOVAL OF MULCH, REMOVAL OF LITTER, REPAIRS TO THE IRRIGATION SYSTEM DUE TO FAULTY PARTS AND/OR WORKMANSHIP, AND THE APPROPRIATE WATERING OF ALL PLANTINGS. THE LANDSCAPE CONTRACTOR SHALL MAINTAIN THE IRRIGATION SYSTEM IN PROPER WORKING ORDER, WITH SCHEDULING ADJUSTMENTS BY SEASON.  
 2. SHOULD SEEDED AND SODDED AREAS NOT BE COVERED BY AN AUTOMATIC IRRIGATION SYSTEM, THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING THESE AREAS AND OBTAINING A FULL, HEALTHY STAND OF PLANTS AT NO ADDITIONAL COST TO THE OWNER.  
 3. TO ENSURE PLANT SURVIVAL AT THE END OF THE MAINTENANCE PERIOD, ALL OF THE FOLLOWING CONDITIONS MUST OCCUR:  
 a. THE LANDSCAPE SHALL SHOW ACTIVE, HEALTHY GROWTH (WITH EXCEPTIONS MADE FOR SEASONAL DORMANCY). ALL PLANTS NOT MEETING THIS CONDITION SHALL BE REJECTED AND PLACED BY THE LANDSCAPE CONTRACTOR PRIOR TO FINAL ACCEPTANCE.  
 b. ALL PLANTS SHALL BE CLEANED PRIOR TO FINAL ACCEPTANCE.  
 c. SODDED AREAS MUST BE ACTIVELY GROWING AND MUST REACH A MINIMUM HEIGHT OF 1 1/2 INCHES BEFORE FIRST MOWING. HYDROMULCHED AREAS SHALL SHOW ACTIVE, HEALTHY GROWTH. BARE AREAS LARGER THAN TWELVE SQUARE INCHES MUST BE RESODDED OR RESEEDED AS APPROPRIATE PRIOR TO FINAL ACCEPTANCE. ALL SODDED TURF SHALL BE NEATLY MOVED.  
 K. **WARRANTY PERIOD, PLANT GUARANTEE AND REPLACEMENTS**  
 1. THE LANDSCAPE CONTRACTOR SHALL GUARANTEE ALL PLANTS, TREES, SHRUBS, PERENNIALS, SOD, AND HYDROMULCH FOR ONE YEAR FROM THE DATE OF THE OWNER'S FINAL ACCEPTANCE (90 DAYS FOR ANNUAL PLANTS). THE CONTRACTOR SHALL REPLACE, AT HIS OWN EXPENSE AND TO THE SATISFACTION OF THE OWNER, ANY PLANTS WHICH DIE IN THAT TIME, OR REPAIR ANY PORTIONS OF THE IRRIGATION SYSTEM WHICH OPERATE IMPROPERLY.  
 2. ALL PLANTS SHALL BE MOVED AND PLANTED IN THE SAME PLANTING AREA AS THEY WERE PLANTED. THE CONTRACTOR SHALL ONLY BE RESPONSIBLE FOR REPLACEMENT OF PLANTS WHEN PLANT DEATH CANNOT BE ATTRIBUTED DIRECTLY TO OVERWATERING OR OTHER DAMAGE BY HUMAN ACTIONS.  
 L. **PROVIDE A MINIMUM OF (2) COPIES OF RECORD DRAWINGS TO THE OWNER UPON COMPLETION OF WORK.** A RECORD DRAWING IS A RECORD OF ALL CHANGES THAT OCCURRED IN THE FIELD AND THAT ARE DOCUMENTED THROUGH CHANGE ORDERS, ADDENDA, OR CONTRACTOR/CONSULTANT DRAWING MARKUPS.

D. **STEEL EDGING**

SCALE: NOT TO SCALE

PARKWAY OR ISLAND

OPEN LANDSCAPE

NOTES:

1) SCARIFY SIDES OF PLANTING PIT PRIOR TO SETTING TREE.

2) REMOVE EXCESS SOIL APPLIED ON TOP OF THE ROOTBALL THAT COVERS THE ROOT FLARE. THE PLANTING HOLE DEPTH SHALL BE SUCH THAT THE ROOTBALL IS PLANTED IN UNDISTURBED SOIL, AND THE ROOT FLARE IS 2-4" ABOVE FINISH GRADE.

3) FOR BAB TREES: CUT OFF BOTTOM 1/3 OF WIRE BASKET BEFORE PLACING TREE IN HOLE, CUT OFF AND REMOVE REMAINDER OF BASKET. PLANTING HOLE SHALL BE TUNNELLED UNDER AND KEEP MOIST, CLOSE ALL TRENCHES WITHIN THE CANOPY DRIP LINES WITHIN 24 HOURS.

4) REMOVE ALL NURSERY STAKES AFTER PLANTING.

5. FOR TREES 36" BOX/2.5 CAL. AND LARGER, USE THREE STAKES OR DEPEND ON THE PLANT'S STRENGTH TO STABILIZE IT EVEN IF PLANTED IN A BARKER.

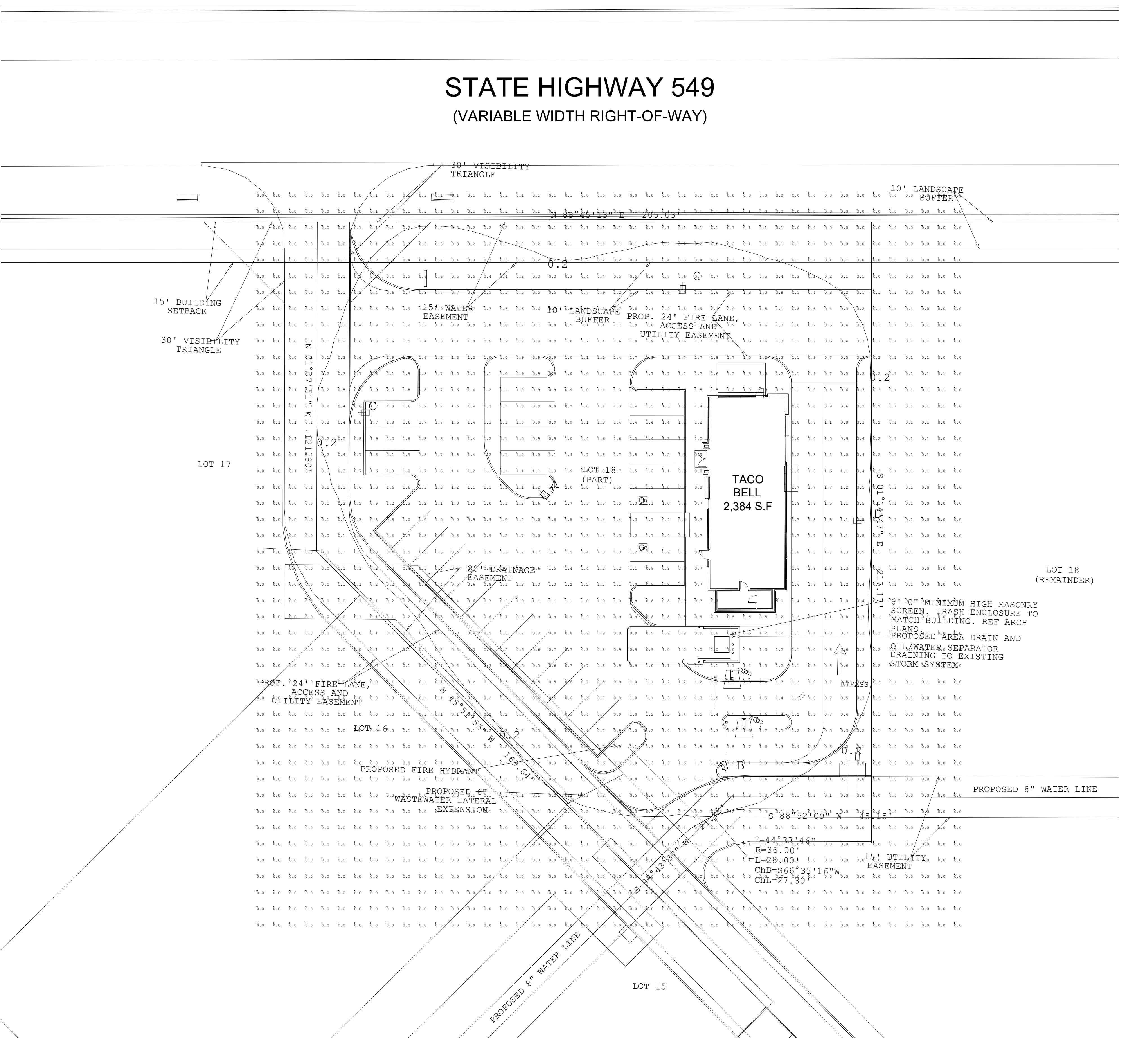
6. STAKING SHALL BE TIGHT ENOUGH TO PREVENT TRUNK FROM BENDING, BUT LOOSE ENOUGH TO ALLOW SOME TRUNK MOVEMENT IN WIND.

NOTES:

1) SCARIFY SIDES OF PLANTING PIT PRIOR TO SETTING TREE.

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#### PHOTOMETRIC INFORMATION

| Calculation Summary                      |       |             |           |         |         |
|--|-------|-------------|-----------|---------|---------|
| Label                                    | Avg   | Max         | Min       | Avg/Min | Max/Min |
| EXTENDED                                 | 0.48  | 2.1         | 0.0       | N.A.    | N.A.    |
| PARKING LOT & DRIVE-THRU SURFACE         | 11.4  | 2.1         | 0.2       | 5.70    | 10.50   |
| LIGHT LEVELS ARE MAINTAINED FOOT-CANDLES |       |             |           |         |         |
| Symbol                                   | Label | Arrangement | Luminaire | LLF     | CCF     |
| 1  | A     | SINGLE      | 9713      | 0.900   | 4000K   |
| 1  | B     | SINGLE      | 7595      | 0.900   | 4000K   |
| 1  | C     | SINGLE      | 1119      | 0.900   | 4000K   |
| 1  | D     | SINGLE      | 8183      | 0.900   | 4000K   |

NOTE: LIGHT LEVEL AT THE PROPERTY LINES NOT TO EXCEED 0.2 FOOT-CANDLE  
POLE BASES ARE 2'-6" AFG

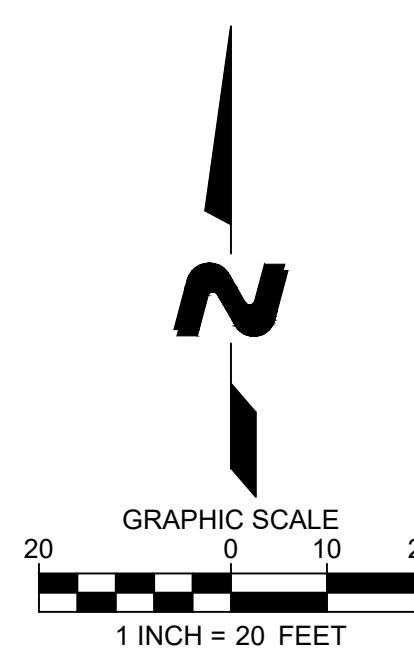
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## STATE HIGHWAY 549 (VARIABLE WIDTH RIGHT-OF-WAY)

#### SITE PLAN KEYNOTES:

- ① CONSTRUCT 6" CURB & GUTTER
- ② CONSTRUCT 6" CONCRETE PAVEMENT SECTION
- ③ INSTALL SIDEWALK PAVEMENT
- ④ INSTALL HANDICAP VAN AND CAR SIGN
- ⑤ 4" WHITE PAVEMENT SOLID PARKING STRIPES
- ⑥ HANDICAP VAN PARKING
- ⑦ STANDARD AREA LIGHT POLE
- ⑧ MONUMENT SIGN
- ⑨ NEW BARRIER FREE RAMPS
- ⑩ PROPOSED ESCAPE LANE
- ⑪ CLEARANCE BAR
- ⑫ MENU BOARD
- ⑬ ORDER SPEAKER
- ⑭ "ONE WAY DO NOT ENTER" SIGN
- ⑮ PROPOSED 4' BOLLARD



ALL RESPONSIBILITY FOR ADEQUACY OF DESIGN  
REMAINS WITH THE DESIGN ENGINEER. THE CITY OF  
ROCKWALL, IN REVIEWING AND RELEASING PLANS FOR  
CONSTRUCTION, ASSUMES NO RESPONSIBILITY FOR  
ADEQUACY OR ACCURACY OF DESIGN.

#### GENERAL NOTES

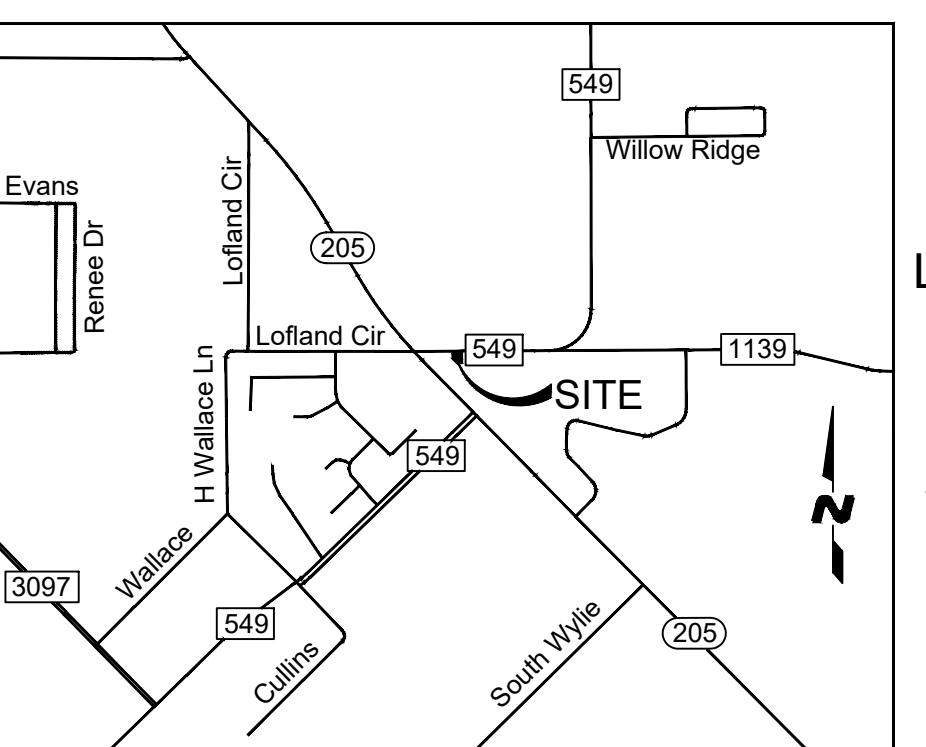
1. The contractor shall assume sole and complete responsibility for his means and methods of construction, job site conditions and job site safety, including safety of all persons and property. This requirement shall apply continuously and not be limited to working hours. The contractor shall save, protect, indemnify defend and hold harmless the owner, the architect and the engineer from any claim of liability, real or alleged, arising out of the performance of any work on this project. The contractor shall name the owner, the architect and the engineer as "additional insured" on his insurance policies.
2. Existing above ground utilities have been shown based on information shown on a survey of the property. Underground utilities are shown based on recorded data and may not be complete or exact. The contractor shall be responsible for verifying the locations and depths of all above ground and underground utilities prior to construction. The contractor shall be responsible for damage to existing above ground or underground utilities, including those not shown on the plans. The contractor is advised to contact the city and all franchise utility companies, easement holders, etc. at least 48 hours prior to beginning excavation in the vicinity of any underground utility.
3. The contractor shall comply with all building codes and regulations, federal, state, county, and city safety codes and inspection requirements.
4. The contractor shall provide dust protection during construction. All trash and debris shall be picked up at all times. Commercial construction debris/solid waste hauler permit required.
5. There will be no outside storage or above ground storage tanks. (Subsection 01.05, of Article 05, UDC)
6. Per the Engineering Standards of Design and Construction, dumpster areas will need to drain to oil/water separator and then to storm lines.

| USE                       | COMMERCIAL (DRIVE-THRU RESTAURANT) |
|---------------------------|------------------------------------|
| LOT AREA                  | 40,751.89 S.F. (0.936 ACRES)       |
| BUILDING SQUARE FOOTAGE   | 2,384 S.F.                         |
| FAR                       | 0.06:1                             |
| BUILDING HEIGHT           | 23'-0"                             |
| TOTAL PERVIOUS COVER      | 8,743 S.F. OR 21%                  |
| TOTAL IMPERVIOUS COVER    | 32,008 S.F. OR 79%                 |
| PARKING REQUIRED          | 27 SPACES (1/100 G.F.A.)           |
| PARKING PROVIDED          | 27 SPACES                          |
| HANDICAP PARKING REQUIRED | 2 SPACES                           |
| HANDICAP PARKING PROVIDED | 2 SPACES                           |

**ACUSERV**  
LIGHTING & EQUIPMENT

THESE PLANS ARE INSTRUMENTS OF PROFESSIONAL SERVICE AND ARE PROTECTED BY COMMON LAW. THEY ARE THE PROPERTY OF THE DESIGNER, INCLUDING COPYRIGHT. THEY MAY NOT BE REPRODUCED IN WHOLE OR IN PART WITHOUT THE WRITTEN CONSENT OF THE DIMENSION GROUP.

|             |                     |                      |             |
|-------------|---------------------|----------------------|-------------|
| #           | DATE                | REVISION DESCRIPTION | BY          |
| project no. | 250-340             |                      |             |
| date        | 9/10/2025 - 2:39 pm |                      | drawn by    |
|             |                     |                      | designed by |
|             |                     |                      | approved by |
|             |                     |                      | dwg.        |



VICINITY MAP  
N.T.S.

**SITE PLAN**  
LOT 18, BLOCK A, CREEKSIDE COMMONS  
ADDITION  
NWC STATE HIGHWAY 205 & F.M. 549  
A 0.936 ACRE TRACT OF LAND IN THE  
WILLIAM W. FORD SURVEY, ABST. NO 80  
CITY OF ROCKWALL, ROCKWALL  
COUNTY, TEXAS  
CITY PROJECT #SP2025-xxx  
August 27, 2025

APPROVED:  
I hereby certify that the above and foregoing site plan for a development in the City of Rockwall, Texas, was approved by the Planning & Zoning Commission of the City of Rockwall on the \_\_\_\_ day of \_\_\_\_ 2025.

WITNESS OUR HANDS, this \_\_\_\_ day of \_\_\_\_ 2025.

Planning & Zoning Commission, Chairman \_\_\_\_\_ Director of Planning and Zoning \_\_\_\_\_

**SITE PLAN**  
NWC STATE HIGHWAY 205 & FM 549  
ROCKWALL, TEXAS 75032

**SHEET**

**LDE-1.0**

**CITY OF ROCKWALL MONUMENTS**  
COR-8: ALUMINUM DISK STAMPED "CITY OF ROCKWALL SURVEY MONUMENT" AT  
THE NORTHERLY INTERSECTION OF SILVER VIEW LANE AND DIAMOND WAY DRIVE  
±1 FOOT NORTHERLY OF CURB LINE IN CENTER OF CURVE.  
N: 7018063.113, E: 2609533.682 ELEVATION: 600.48'

COR-9: BRASS DISK STAMPED "CITY OF ROCKWALL SURVEY MONUMENT" ON THE  
SOUTH SIDE OF DISCOVERY BOULEVARD AT THE SOUTHEAST CORNER OF CURB  
INLET ±180 FOOT EAST INTERSECTION OF DISCOVERY/CORPORATE.  
N: 7020550.132, E: 2607463.893 ELEVATION: 595.63'

**ENGINEER/APPLICANT** THE DIMENSION GROUP  
10755 SANDHILL ROAD  
DALLAS, TX 75238  
PHONE: (214) 343-9400  
CONTACT: KEATON L. MAI, PE

**OWNER** VALLEY BELLS ENTERPRISES, LLC  
101 E. CHEROKEE STREET  
JACKSONVILLE, TX 75766  
PHONE: (903) 586-1524  
CONTACT: MIKE STRANSBERRY



# Mirada Medium (MRM)

## Outdoor LED Area Light



IP66 IK08



| OVERVIEW             |                             |
|----------------------|-----------------------------|
| Lumen Package        | 7,000 - 55,000              |
| Wattage Range        | 48 - 438                    |
| Efficacy Range (LPW) | 115 - 162                   |
| Weight lbs(kg)       | 30 (13.6)                   |
| Control Options      | IMSBT, ALB, ALS, 7-Pin, PCI |

### QUICK LINKS

[Ordering Guide](#)[Performance](#)[Photometrics](#)[Dimensions](#)

## FEATURES & SPECIFICATIONS

### Construction

- Rugged die-cast aluminum housing contains factory prewired driver and optical unit. Cast aluminum wiring access door located underneath.
- Designed to mount to square or round poles.
- Fixtures are finished with LSI's DuraGrip® polyester powder coat finishing process. The DuraGrip finish withstands extreme weather changes without cracking or peeling. Other standard LSI finishes available. Consult factory.
- Shipping weight: 37 lbs in carton.

### Optical System

- State-of-the-Art one piece silicone optic sheet delivers industry leading optical control with an integrated gasket to provide IP66 rated sealed optical chamber in 1 component.
- Proprietary silicone refractor optics provide exceptional coverage and uniformity in IES Types 2, 3, 4, 5W, FT, FTA, AM, and LC/RC.
- Silicone optical material does not yellow or crack with age and provides a typical light transmittance of 93-95%.
- Zero uplight.
- Available in 5000K, 4000K, and 3000K color temperatures per ANSI C78.377. Also Available in Phosphor Converted Amber with Peak intensity at 610nm.
- Minimum CRI of 70.
- Integral louver (IL) and integral half louver (IH) options available for enhanced backlight control.

### Electrical

- High-performance programmable driver features over-voltage, under-voltage, short-circuit and over temperature protection. Custom lumen and wattage packages available.
- 0-10V dimming (10% - 100%) standard.
- Standard Universal Voltage (120-277 Vac) Input 50/60 Hz or optional High Voltage (347-480 Vac).
- L80 Calculated Life: >100k Hours (See Lumen Maintenance chart)
- Total harmonic distortion: <20%
- Operating temperature: -40°C to +50°C (-40°F to +122°F). 42L and 48L lumen packages rated to +40°C. 55L lumen package rate to +35°C.
- Power factor: >.90
- Input power stays constant over life.
- Field replaceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).
- High-efficacy LEDs mounted to metal-core circuit board to maximize heat dissipation
- Components are fully encased in potting material for moisture resistance. Driver complies with FCC standards. Driver and key electronic components can easily be accessed.

### Controls

- Optional integral passive infrared Bluetooth™ motion. Fixtures operate independently and can be commissioned via iOS or Android configuration app
- LSI's AirLink™ wireless control system options reduce energy and maintenance

costs while optimizing light quality 24/7. (see controls section for more details).

### Installation

- Designed to mount to square or round poles.
- A single fastener secures the hinged door, underneath the housing and provides quick & easy access to the electrical compartment.
- Included terminal block accepts up to 12 ga. wire.
- Utilizes LSI's traditional 3" drill pattern B3 for easy fastening of LSI products.

### Warranty

- LSI LED Fixtures carry a 5-year warranty.

### Listings

- Listed to UL 1598 and UL 8750.
- Meets Buy American Act requirements.
- IDA compliant; with 3000K color temperature selection.
- Title 24 Compliant; see local ordinance for qualification information.
- RoHS compliant
- Suitable for wet Locations.
- IP66 rated Luminaire per IEC 60598.
- 3G rated for ANSI C136.31 high vibration applications are qualified.
- DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at [www.designlights.org/QPL](http://www.designlights.org/QPL) to confirm which versions are qualified.
- Patented Silicone Optics (US Patent NO. 10,816,165 B2)
- IK08 rated luminaire per IEC 66262 mechanical impact code



# Mirada Medium Outdoor LED Area Light

 **Have questions?** Call us at (800) 436-7800

Type : \_\_\_\_\_

## ORDERING GUIDE

[Back to Quick Links](#)

**TYPICAL ORDER EXAMPLE: MRM LED 36L SIL FTA UNV DIM 50 70CRI ALSCS04 BRZ IL**

| Prefix                         | Light Source | Lumen Package   | Lens           | Distribution   | Orientation <sup>2</sup>  | Voltage  | Driver                      |
|--------------------------------|--------------|---|----------------|--|---|--|-----------------------------|
| MRM - Mirada Medium Area Light | LED          | 7L - 7,000 lms, 48W<br>9L - 9,000 lms, 62W<br>12L - 12,000 lms, 85W<br>18L - 18,000 lms, 135W<br>24L - 24,000 lms, 176W<br>30L - 30,000 lms, 232W<br>36L - 36,000 lms, 288W<br>42L - 42,000 lms, 314W<br>48L - 48,000 lms, 401W<br>55L - 55,000 lms, 438W<br>Custom Lumen Packages <sup>1</sup> | SIL - Silicone | 2 - Type 2<br>3 - Type 3<br>4 - Type 4<br>5W - Type 5 Wide<br>FT - Forward Throw<br>FTA - Forward Throw Automotive<br>AM - Automotive Merchandise<br>LC - Left Corner<br>RC - Right Corner | (blank) - standard<br>L - Optics rotated left 90°<br>R - Optics rotated right 90° | UNV - Universal Voltage (120-277V)<br>HV - High Voltage (347-480V) | DIM - 0-10V Dimming (0-10%) |

| Color Temp   | Color Rendering | Finish   | Options  |
|--|-----------------|--|--|
| 50 - 5,000 CCT<br>40 - 4,000 CCT<br>30 - 3,000 CCT<br>AMB - Phosphor Converted Amber <sup>12</sup> | 70CRI - 70 CRI  | BLK - Black<br>BRZ - Dark Bronze<br>GMG - Gun Metal Gray<br>GPT - Graphite | MSV - Metallic Silver<br>PLP - Platinum Plus<br>SVG - Satin Verde Green<br>WHT - White<br>(Blank) - None<br>IH - Integral Half Louver (Moderate Spill Light Cutoff) <sup>2</sup><br>IL - Integral Louver (Sharp Spill Light Cutoff) <sup>2</sup> |

### Controls (Choose One)

(Blank) - None

#### Wireless Controls System

ALSC - AirLink Synapse Control System<sup>13</sup>

ALSCS02 - AirLink Synapse Control System with 12-20' Motion Sensor<sup>13</sup>

ALSCS04 - AirLink Synapse Control System with 20-40' Motion Sensor<sup>13</sup>

ALBCS1 - AirLink Blue Wireless Motion & Photo Sensor Controller (8-24' mounting height)<sup>5</sup>

ALBCS2 - AirLink Blue Wireless Motion & Photo Sensor Controller (25-40' mounting height)<sup>5</sup>

#### Stand-Alone Controls

EXT - 0-10v Dimming leads extended to housing exterior

CR7P - 7 Pin Control Receptacle ANSI C136.41<sup>6</sup>

IMSBT1L - Integral Bluetooth™ Motion and Photocell Sensor (8-24' MH)<sup>5</sup>

IMSBT12 - Integral Bluetooth™ Motion and Photocell Sensor (25-40' MH)<sup>5</sup>

#### Button Type Photocells

PC1120 - 120V

PC1208-277 - 208 -277V

PC1347 - 347V



**Need more information?**

Click here for our glossary

**Have additional questions?**

Call us at (800) 436-7800



## ACCESSORY ORDERING INFORMATION<sup>7</sup>

| CONTROLS ACCESSORIES   |                |
|--|----------------|
| Description  | Order Number   |
| PC120 Photocell for use with CR7P option (120V) <sup>8</sup>                 | <b>122514</b>  |
| PC208-277 Photocell for use with CR7P option (208V, 240V, 277V) <sup>8</sup> | <b>122515</b>  |
| Twist Lock Photocell (347V) for use with CR7P <sup>8</sup>                   | <b>122516</b>  |
| Twist Lock Photocell (480V) for use with CR7P <sup>8</sup>                   | <b>1225180</b> |
| AirLink 5 Pin Twist Lock Controller (120-277V Only) <sup>8</sup>             | <b>661409</b>  |
| AirLink 7 Pin Twist Lock Controller (120-277V Only) <sup>8</sup>             | <b>661410</b>  |
| AirLink 7 Pin Twist Lock Controller (347-480V)                               | <b>679948</b>  |
| Shorting Cap for use with CR7P   | <b>149328</b>  |

| FUSING OPTIONS <sup>11</sup> |  |
|------------------------------|--|
| Single Fusing (120V)         |  |
| Single Fusing (277V)         |  |
| Double Fusing (208, 240V)    |  |
| Double Fusing (480V)         |  |
| Double Fusing (347V)         |  |

[See Fusing Accessory Guide](#)

| SHIELDING OPTIONS |  |
|-------------------|--|
| Mirada Small      |  |
| Mirada Medium     |  |
| Mirada Large      |  |
| Zone Medium       |  |
| Zone Large        |  |
| Slice Medium      |  |

[See Shielding Guide](#)

1. Custom lumen and wattage packages available, consult factory. Values are within industry standard tolerances but not DLC listed.
2. Not available with 5W distribution
3. Consult Factory for availability.
4. Not available in HV.
5. Motion sensors are field configurable via an app that can be downloaded from your smartphone's native app store. See controls section for more details.
6. Control device or shorting cap must be ordered separately. See Accessory Ordering Information.
7. Accessories are shipped separately and field installed.
8. Factory installed CR7P option required. See Options.
9. "CLR" denotes finish. See Finish options.
10. Only available with ALSC/ALSCH control options.
11. Fusing must be located in hand hole of pole. See [Fusing Accessory Guide](#) for compatibility.
12. Only available in 9L, 12L, 18L and 24L Lumen Packages. Consult factory for lead time and availability.
13. Not available with 55L Lumen Package.

# Mirada Medium Outdoor LED Area Light

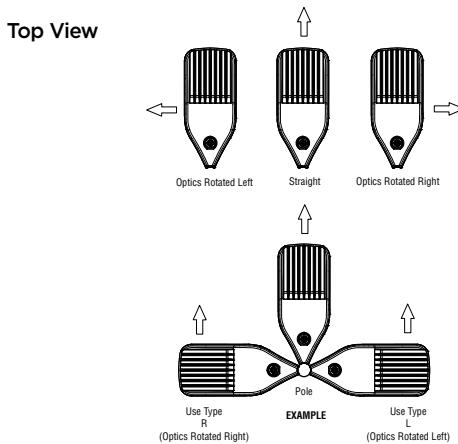
Type: \_\_\_\_\_

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## ACCESSORIES

| MOUNTING ACCESSORIES   |   |   |
|--|---|---|
| Side Arm   | <b>Universal Mounting Bracket</b><br>Mounts to ≥ 3" square or round (tapered/straight) poles with (2) mounting hole spaces between 3.5" to 5"<br><br>Part Number: BKA UMB CLR                       |      |
|  | <b>Quick Mount Plate</b><br>True one person installation to existing/new construction poles with hole spaces between 2.4 to 4.6"<br><br>Part Number: BKS PQM B3B5 XX CLR                            |      |
|  | <b>15° Tilt Quick Mount Plate</b><br>True one person installation to existing/new construction poles with hole spaces between 2.4 to 4.6"<br><br>Part Number: BKS PQ15 B3B5 XX CLR                  |      |
| Tenon / Slipfitter   | <b>Adjustable Slipfitter</b><br>Mounts onto a 2" (51mm) IP, 2.375" (60mm) O.D. tenon and provides 180° of tilt (max 45° above horizontal)<br><br>Part Number: BKA ASF CLR                           |      |
|  | <b>Square Tenon Top</b><br>Mounts onto a 2" (51mm) IP, 2.375" (60mm) O.D. tenon and allows for mounting up to 4 luminaires<br><br>Part Number: BKA XNM *  |      |
|  | <b>Square Internal Slipfitter</b><br>Mounts inside 4" or 5" square pole and allows for mounting up to 4 luminaires<br><br>Part Number: BKA X_ISF * CLR  |    |
| Wall Mount/ Wood Pole  | <b>Wall Mount Bracket</b><br>Mounts onto vertical wall surface (hardware/anchors not included)<br><br>Part Number: BKS XBO WM CLR   |    |
|  | <b>Wood Pole Bracket</b><br>Mounts onto wooden poles (6" minimum OD, hardware/anchors not included)<br><br>Part Number: BKS XBO WP CLR  |    |
| SHIELDING, POLES & MISC. ACCESSORIES   |   |   |
| Poles  | <b>Integral Louver</b><br>Field Install Integral Louver provides maximum backlight control by shielding each individual row of LEDs<br><br>Part Number: 690981                                      |    |
|  | <b>Integral Half Louver</b><br>Field Install Integral Half Louver provides great backlight control without impacting front side distribution.<br><br>Part Number: 743415                            |    |
|  | <b>External Shield</b><br>External shield blocks view of light source from any side of luminaire, additional shielding configurations available<br><br>Part Number: 783607BLK (3") / 776538BLK (6") |    |
| Misc.  | <b>Square Poles</b><br>14 - 39' steel and aluminum poles in 4", 5" and 6" sizes for retrofit and new construction<br><br>Part Number: 4SQ/5SQ/6SQ   |    |
|  | <b>Round Poles</b><br>10 - 30' steel and aluminum poles in 4" and 5" sizes for retrofit and new construction<br><br>Part Number: 4RP/5RP  |    |
|  | <b>Tapered Poles</b><br>20' - 39' steel and aluminum poles for retrofit and new construction<br><br>Part Number: RTP  |  |
| Bird Spikes  |   |   |
| 10' Linear Bird Spike Kit, 4" recommended per luminaire, includes silicone adhesive and application tool   |   |   |
| Spike Part Number: 751631<br>Adhesive Part Number: 751632<br>Caulk Gun Part Number: 751636   |   |   |
| Replace CLR with paint finish description<br>Replace X with: 3<br>Replace XX with SQ for square pole or RD for round pole (≥3" OD)<br>Replace * with S (Single), D180 (Double @180°), D90 (Double @90°), T90 (Triple), Q90 (Quad)<br>Replace _ with 4 (4" square pole) or 5 (5" square pole) |   |   |

## OPTICS ROTATION



## ACCESSORIES/OPTIONS

### Integral Louver (IL) and House-Side Shield (IH)

Integral Louver (IL) and half louver (IH) accessory shields available for improved backlight control without sacrificing street side performance. LSI's Integral Louver (IL) and Integral House-Side Shield (IH) options deliver backlight control that significantly reduces spill light behind the poles for applications with pole locations close to adjacent properties. The design maximizes forward reflected light while reducing glare, maintaining the optical distribution selected, and most importantly eliminating light trespass. Both options rotate

Luminaire Shown with Integral Louver (IL)



Luminaire Shown with IMSBTL Option



### 7 Pin Photoelectric Control

7-pin ANSI C136.41-2013 control receptacle option available for twist lock photocontrols or wireless control modules. Control accessories sold separately. Dimming leads from the receptacle will be connected to the driver dimming leads (Consult factory for alternate wiring).

Luminaire Shown with CR7P



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SPEC.1020.B.0422

# Mirada Medium Outdoor LED Area Light

Type: \_\_\_\_\_

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## PERFORMANCE

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| DELIVERED LUMENS* |              |     |                  |          |            |                  |          |            |                  |          |            |
|-------------------|--------------|-----|------------------|----------|------------|------------------|----------|------------|------------------|----------|------------|
| Lumen Package     | Distribution | CRI | 3000K CCT        |          |            | 4000K CCT        |          |            | 5000K CCT        |          |            |
|                   |              |     | Delivered Lumens | Efficacy | BUG Rating | Delivered Lumens | Efficacy | BUG Rating | Delivered Lumens | Efficacy | BUG Rating |
| 9L                | 2            | 70  | 9853             | 159      | B2-U0-G2   | 9853             | 159      | B2-U0-G2   | 9853             | 159      | B2-U0-G2   |
|                   | 3            |     | 9926             | 160      | B2-U0-G2   | 9926             | 160      | B2-U0-G2   | 9926             | 160      | B2-U0-G2   |
|                   | 4            |     | 9178             | 148      | B2-U0-G3   | 9713             | 157      | B2-U0-G3   | 9498             | 153      | B2-U0-G3   |
|                   | 5W           |     | 9504             | 153      | B3-U0-G2   | 9504             | 153      | B3-U0-G2   | 9504             | 153      | B3-U0-G2   |
|                   | FT           |     | 9856             | 159      | B2-U0-G3   | 9856             | 159      | B2-U0-G3   | 9856             | 159      | B2-U0-G3   |
|                   | FTA          |     | 9900             | 160      | B2-U0-G2   | 9900             | 160      | B2-U0-G2   | 9900             | 160      | B2-U0-G2   |
|                   | AM           |     | 10019            | 162      | B2-U0-G1   | 10019            | 162      | B2-U0-G1   | 10019            | 162      | B2-U0-G1   |
|                   | LC/RC        |     | 9008             | 145      | B2-U0-G3   | 9533             | 154      | B2-U0-G3   | 9321             | 150      | B2-U0-G3   |
| 12L               | 2            | 70  | 13135            | 155      | B3-U0-G2   | 13135            | 155      | B3-U0-G2   | 13135            | 155      | B3-U0-G2   |
|                   | 3            |     | 13232            | 156      | B2-U0-G2   | 13232            | 156      | B2-U0-G2   | 13232            | 156      | B2-U0-G2   |
|                   | 4            |     | 12223            | 144      | B2-U0-G3   | 12935            | 152      | B2-U0-G4   | 12648            | 149      | B2-U0-G4   |
|                   | 5W           |     | 12669            | 149      | B4-U0-G2   | 12669            | 149      | B4-U0-G2   | 12669            | 149      | B4-U0-G2   |
|                   | FT           |     | 13138            | 155      | B2-U0-G3   | 13138            | 155      | B2-U0-G3   | 13138            | 155      | B2-U0-G3   |
|                   | FTA          |     | 13196            | 155      | B2-U0-G2   | 13196            | 155      | B2-U0-G2   | 13196            | 155      | B2-U0-G2   |
|                   | AM           |     | 13355            | 157      | B2-U0-G2   | 13355            | 157      | B2-U0-G2   | 13355            | 157      | B2-U0-G2   |
|                   | LC/RC        |     | 11996            | 141      | B2-U0-G3   | 12695            | 149      | B2-U0-G3   | 12414            | 146      | B2-U0-G3   |
| 18L               | 2            | 70  | 19318            | 143      | B3-U0-G3   | 19318            | 143      | B3-U0-G3   | 19318            | 143      | B3-U0-G3   |
|                   | 3            |     | 19461            | 144      | B3-U0-G3   | 19461            | 144      | B3-U0-G3   | 19461            | 144      | B3-U0-G3   |
|                   | 4            |     | 18013            | 133      | B2-U0-G4   | 19063            | 141      | B3-U0-G5   | 18640            | 138      | B3-U0-G5   |
|                   | 5W           |     | 18633            | 138      | B4-U0-G2   | 18633            | 138      | B4-U0-G2   | 18633            | 138      | B4-U0-G2   |
|                   | FT           |     | 19324            | 143      | B3-U0-G3   | 19324            | 143      | B3-U0-G3   | 19324            | 143      | B3-U0-G3   |
|                   | FTA          |     | 19408            | 144      | B3-U0-G3   | 19408            | 144      | B3-U0-G3   | 19408            | 144      | B3-U0-G3   |
|                   | AM           |     | 19641            | 145      | B3-U0-G2   | 19641            | 145      | B3-U0-G2   | 19641            | 145      | B3-U0-G2   |
|                   | LC/RC        |     | 17679            | 131      | B2-U0-G3   | 18710            | 139      | B2-U0-G3   | 18295            | 136      | B2-U0-G3   |
| 24L               | 2            | 70  | 24142            | 147      | B4-U0-G3   | 25957            | 147      | B4-U0-G3   | 25957            | 147      | B4-U0-G3   |
|                   | 3            |     | 25001            | 149      | B3-U0-G3   | 26149            | 149      | B3-U0-G3   | 26149            | 149      | B3-U0-G3   |
|                   | 4            |     | 24396            | 152      | B3-U0-G5   | 25600            | 160      | B3-U0-G5   | 25457            | 159      | B3-U0-G5   |
|                   | 5W           |     | 24327            | 142      | B5-U0-G3   | 25037            | 142      | B5-U0-G3   | 25037            | 142      | B5-U0-G3   |
|                   | FT           |     | 24994            | 148      | B3-U0-G3   | 25964            | 148      | B3-U0-G3   | 25964            | 148      | B3-U0-G3   |
|                   | FTA          |     | 24171            | 148      | B3-U0-G3   | 26077            | 148      | B4-U0-G3   | 26077            | 148      | B4-U0-G3   |
|                   | AM           |     | 24939            | 150      | B3-U0-G2   | 26393            | 150      | B3-U0-G2   | 26393            | 150      | B3-U0-G2   |
|                   | LC/RC        |     | 25884            | 162      | B3-U0-G4   | 25884            | 162      | B3-U0-G4   | 25310            | 158      | B3-U0-G4   |
| 30L               | 2            | 70  | 30171            | 140      | B4-U0-G3   | 32417            | 140      | B4-U0-G3   | 32417            | 140      | B4-U0-G3   |
|                   | 3            |     | 31243            | 141      | B3-U0-G4   | 32656            | 141      | B3-U0-G4   | 32656            | 141      | B3-U0-G4   |
|                   | 4            |     | 30651            | 144      | B3-U0-G5   | 32141            | 151      | B3-U0-G5   | 31961            | 150      | B3-U0-G5   |
|                   | 5W           |     | 30402            | 135      | B5-U0-G3   | 31267            | 135      | B5-U0-G3   | 31267            | 135      | B5-U0-G3   |
|                   | FT           |     | 31233            | 140      | B4-U0-G4   | 32424            | 140      | B4-U0-G4   | 32424            | 140      | B4-U0-G4   |
|                   | FTA          |     | 30207            | 140      | B4-U0-G4   | 32566            | 140      | B4-U0-G4   | 32566            | 140      | B4-U0-G4   |
|                   | AM           |     | 3116             | 142      | B4-U0-G3   | 32960            | 142      | B4-U0-G3   | 32960            | 142      | B4-U0-G3   |
|                   | LC/RC        |     | 32498            | 153      | B3-U0-G5   | 32498            | 153      | B3-U0-G5   | 31777            | 149      | B3-U0-G5   |

\*LEDs are frequently updated therefore values are nominal.



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SPEC.1020.B.0422

# Mirada Medium Outdoor LED Area Light

Type : \_\_\_\_\_

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## PERFORMANCE (CONT.)

| DELIVERED LUMENS* |              |     |                  |          |            |                  |          |            |                  |          |            |         |
|-------------------|--------------|-----|------------------|----------|------------|------------------|----------|------------|------------------|----------|------------|---------|
| Lumen Package     | Distribution | CRI | 3000K CCT        |          |            | 4000K CCT        |          |            | 5000K CCT        |          |            | Wattage |
|                   |              |     | Delivered Lumens | Efficacy | BUG Rating | Delivered Lumens | Efficacy | BUG Rating | Delivered Lumens | Efficacy | BUG Rating |         |
| 36L               | 2            | 70  | 35357            | 133      | B4-U0-G3   | 38275            | 133      | B4-U0-G3   | 38275            | 133      | B4-U0-G3   | 288     |
|                   | 3            |     | 36614            | 134      | B4-U0-G4   | 38557            | 134      | B4-U0-G4   | 38557            | 134      | B4-U0-G4   |         |
|                   | 4            |     | 35402            | 139      | B3-U0-G5   | 37148            | 146      | B4-U0-G5   | 36940            | 145      | B4-U0-G5   |         |
|                   | 5W           |     | 35627            | 128      | B5-U0-G4   | 36917            | 128      | B5-U0-G4   | 36917            | 128      | B5-U0-G4   |         |
|                   | FT           |     | 36602            | 133      | B4-U0-G4   | 38283            | 133      | B4-U0-G4   | 38283            | 133      | B4-U0-G4   |         |
|                   | FTA          |     | 35399            | 134      | B4-U0-G4   | 38450            | 134      | B4-U0-G4   | 38450            | 134      | B4-U0-G4   |         |
|                   | AM           |     | 36524            | 135      | B4-U0-G3   | 38916            | 135      | B4-U0-G3   | 38916            | 135      | B4-U0-G3   |         |
|                   | LC/RC        |     | 37561            | 147      | B3-U0-G5   | 37561            | 147      | B3-U0-G5   | 36727            | 144      | B3-U0-G5   |         |
|                   | 2            |     | 41035            | 131      | B5-U0-G4   | 42602            | 136      | B5-U0-G4   | 42542            | 135      | B5-U0-G4   | 314     |
| 42L               | 3            | 70  | 42493            | 135      | B4-U0-G5   | 44115            | 140      | B4-U0-G5   | 44053            | 140      | B4-U0-G5   |         |
|                   | 4            |     | 41453            | 132      | B4-U0-G5   | 43497            | 138      | B4-U0-G5   | 43254            | 138      | B4-U0-G5   |         |
|                   | 5W           |     | 41349            | 132      | B5-U0-G4   | 42927            | 134      | B5-U0-G4   | 42866            | 137      | B5-U0-G4   |         |
|                   | FT           |     | 42481            | 135      | B4-U0-G4   | 44103            | 140      | B4-U0-G4   | 44040            | 140      | B4-U0-G4   |         |
|                   | FTA          |     | 41083            | 131      | B4-U0-G4   | 42652            | 136      | B5-U0-G4   | 42591            | 136      | B5-U0-G4   |         |
|                   | AM           |     | 42389            | 135      | B4-U0-G3   | 44007            | 140      | B4-U0-G3   | 43944            | 140      | B4-U0-G3   |         |
|                   | LC/RC        |     | 43980            | 140      | B3-U0-G5   | 43980            | 140      | B3-U0-G5   | 43004            | 137      | B3-U0-G5   |         |
|                   | 2            | 70  | 45133            | 123      | B5-U0-G4   | 46856            | 128      | B5-U0-G4   | 46789            | 128      | B5-U0-G4   | 401     |
|                   | 3            |     | 46737            | 128      | B4-U0-G5   | 48521            | 133      | B4-U0-G5   | 48452            | 132      | B4-U0-G5   |         |
|                   | 4            |     | 46006            | 126      | B4-U0-G5   | 48275            | 132      | B4-U0-G5   | 48005            | 131      | B4-U0-G5   |         |
|                   | 5W           |     | 45478            | 124      | B5-U0-G4   | 47214            | 129      | B5-U0-G4   | 47147            | 129      | B5-U0-G4   |         |
|                   | FT           |     | 46723            | 128      | B4-U0-G5   | 48507            | 133      | B4-U0-G5   | 48438            | 132      | B4-U0-G5   |         |
|                   | FTA          |     | 45187            | 123      | B5-U0-G4   | 46912            | 128      | B5-U0-G4   | 46845            | 128      | B5-U0-G4   |         |
|                   | AM           |     | 4662             | 127      | B4-U0-G3   | 48402            | 132      | B4-U0-G3   | 48333            | 132      | B4-U0-G3   |         |
|                   | LC/RC        |     | 48811            | 133      | B4-U0-G5   | 48811            | 133      | B4-U0-G5   | 47728            | 130      | B4-U0-G5   |         |
| 55L               | 2            | 70  | 50179            | 115      | B5-U0-G4   | 52095            | 119      | B5-U0-G4   | 52021            | 119      | B5-U0-G4   | 438     |
|                   | 3            |     | 51963            | 119      | B4-U0-G5   | 53947            | 123      | B4-U0-G5   | 53870            | 123      | B4-U0-G5   |         |
|                   | 4            |     | 51635            | 119      | B4-U0-G5   | 54181            | 125      | B4-U0-G5   | 53878            | 124      | B4-U0-G5   |         |
|                   | 5W           |     | 50563            | 115      | B5-U0-G4   | 52493            | 120      | B5-U0-G4   | 52418            | 120      | B5-U0-G4   |         |
|                   | FT           |     | 50539            | 115      | B4-U0-G5   | 52468            | 120      | B4-U0-G5   | 52394            | 120      | B4-U0-G5   |         |
|                   | FTA          |     | 50239            | 115      | B5-U0-G4   | 52157            | 119      | B5-U0-G4   | 52082            | 119      | B5-U0-G4   |         |
|                   | AM           |     | 52223            | 119      | B4-U0-G3   | 54216            | 124      | B4-U0-G3   | 54139            | 124      | B4-U0-G3   |         |
|                   | LC/RC        |     | 54113            | 124      | B4-U0-G5   | 54113            | 124      | B4-U0-G5   | 52912            | 121      | B4-U0-G5   |         |

\*LEDs are frequently updated therefore values are nominal.



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SPEC.1020.B.0422

# Mirada Medium Outdoor LED Area Light

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Type: \_\_\_\_\_

## PERFORMANCE (CONT.)

| ELECTRICAL DATA (AMPS)* |      |      |      |      |      |      |
|-------------------------|------|------|------|------|------|------|
| Lumens                  | 120V | 208V | 240V | 277V | 347V | 480V |
| 9L                      | 0.52 | 0.30 | 0.26 | 0.22 | 0.18 | 0.13 |
| 12L                     | 0.71 | 0.41 | 0.35 | 0.31 | 0.24 | 0.18 |
| 18L                     | 1.13 | 0.65 | 0.56 | 0.49 | 0.39 | 0.28 |
| 24L                     | 1.33 | 0.77 | 0.67 | 0.58 | 0.46 | 0.33 |
| 30L                     | 1.78 | 1.02 | 0.89 | 0.77 | 0.61 | 0.44 |
| 36L                     | 2.12 | 1.22 | 1.06 | 0.92 | 0.73 | 0.53 |
| 42L                     | 2.62 | 1.51 | 1.31 | 1.13 | 0.90 | 0.65 |
| 48L                     | 3.05 | 1.76 | 1.53 | 1.32 | 1.05 | 0.76 |
| 55L                     | 3.65 | 2.11 | 1.83 | 1.58 | 1.26 | 0.91 |

| RECOMMENDED LUMEN MAINTENANCE <sup>1</sup> (0-25°C) |                      |                  |                   |                   |                    |
|---|----------------------|------------------|-------------------|-------------------|--------------------|
| Ambient   | Initial <sup>2</sup> | 25h <sup>2</sup> | 50hr <sup>2</sup> | 75hr <sup>2</sup> | 100hr <sup>2</sup> |
| 9L - 18L  | 100%                 | 97%              | 93%               | 90%               | 86%                |
| 24L - 48L   | 100%                 | 95%              | 89%               | 84%               | 79%                |
| 55L   | 100%                 | 91%              | 82%               | 74%               | 67%                |

| RECOMMENDED LUMEN MAINTENANCE <sup>1</sup> (40°C) |                      |                  |                   |                   |                    |
|---|----------------------|------------------|-------------------|-------------------|--------------------|
| Ambient   | Initial <sup>2</sup> | 25h <sup>2</sup> | 50hr <sup>2</sup> | 75hr <sup>2</sup> | 100hr <sup>2</sup> |
| 9L - 18L  | 100%                 | 97%              | 92%               | 88%               | 84%                |
| 24L - 48L   | 100%                 | 94%              | 87%               | 80%               | 74%                |

| RECOMMENDED LUMEN MAINTENANCE <sup>1</sup> (50°C) |                      |                  |                   |                   |                    |
|---|----------------------|------------------|-------------------|-------------------|--------------------|
| Ambient   | Initial <sup>2</sup> | 25h <sup>2</sup> | 50hr <sup>2</sup> | 75hr <sup>2</sup> | 100hr <sup>2</sup> |
| 9L - 18L C  | 100%                 | 96%              | 91%               | 87%               | 85%                |

\*Electrical data at 25°C (77°F). Actual wattage may differ by +/-10%

1. Lumen maintenance values at 25C are calculated per TM-21 based on LM-80 data and in-situ testing.
2. In accordance with IESNA TM-21-11, Projected Values represent interpolated value based on time durations that are within six times the IESNA LM-80-08 total test duration for the device under testing.
3. In accordance with IESNA TM-21-11, Calculated Values represent time durations that exceed six times the IESNA LM-80-08 total test duration for the device under testing.

| DELIVERED LUMENS* |              |                                       |          |            |         |
|-------------------|--------------|---------------------------------------|----------|------------|---------|
| Lumen Package     | Distribution | Phosphor Converted Amber (Peak 610mm) |          |            | Wattage |
|                   |              | Delivered Lumens                      | Efficacy | BUG Rating |         |
| 9L                | 2            | 5848                                  | 80       | B2-U0-G2   | 74      |
|                   | 3            | 6018                                  | 82       | B1-U0-G2   |         |
|                   | 5W           | 5471                                  | 74       | B3-U0-G1   |         |
|                   | FT           | 5801                                  | 79       | B1-U0-G2   |         |
|                   | FTA          | 5924                                  | 81       | B1-U0-G1   |         |
|                   | AM           | 5995                                  | 81       | B1-U0-G1   |         |
| 12L               | 2            | 7530                                  | 74       | B2-U0-G2   | 102     |
|                   | 3            | 7749                                  | 76       | B1-U0-G2   |         |
|                   | 5W           | 7045                                  | 69       | B3-U0-G2   |         |
|                   | FT           | 7470                                  | 73       | B2-U0-G2   |         |
|                   | FTA          | 7628                                  | 75       | B2-U0-G2   |         |
|                   | AM           | 7720                                  | 76       | B1-U0-G1   |         |
| 18L               | 2            | 9311                                  | 69       | B2-U0-G2   | 135     |
|                   | 3            | 9582                                  | 71       | B2-U0-G2   |         |
|                   | 5W           | 8712                                  | 65       | B3-U0-G2   |         |
|                   | FT           | 9237                                  | 68       | B2-U0-G2   |         |
|                   | FTA          | 9433                                  | 70       | B2-U0-G2   |         |
|                   | AM           | 9546                                  | 71       | B2-U0-G1   |         |
| 24L               | 2            | 10955                                 | 63       | B2-U0-G2   | 175     |
|                   | 3            | 11273                                 | 64       | B2-U0-G2   |         |
|                   | 5W           | 10249                                 | 59       | B3-U0-G2   |         |
|                   | FT           | 10867                                 | 62       | B2-U0-G2   |         |
|                   | FTA          | 11097                                 | 63       | B2-U0-G2   |         |
|                   | AM           | 11230                                 | 64       | B2-U0-G1   |         |

| ELECTRICAL DATA - PHOSPHOR CONVERTED AMBER (AMPS)* |      |      |      |      |      |
|--|------|------|------|------|------|
| Lumens   | 120V | 208V | 240V | 277V | 347V |
| 9L   | 0.62 | 0.36 | 0.31 | 0.27 | 0.21 |
| 12L  | 0.85 | 0.50 | 0.43 | 0.38 | 0.30 |
| 18L  | 1.13 | 0.65 | 0.56 | 0.49 | 0.39 |
| 24L  | 1.47 | 0.85 | 0.73 | 0.64 | 0.51 |

\*LEDs are frequently updated therefore values are nominal.



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SPEC.1020.B.0422

# Mirada Medium Outdoor LED Area Light

Type: \_\_\_\_\_



## PHOTOMETRICS

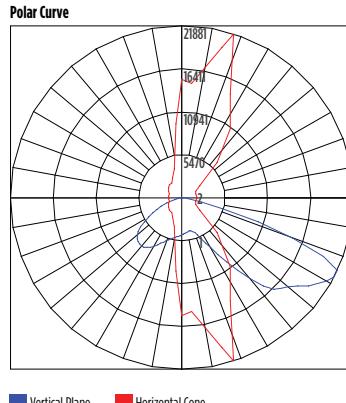
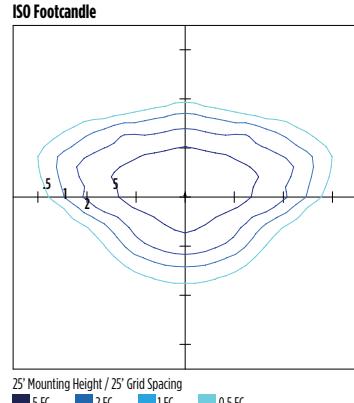
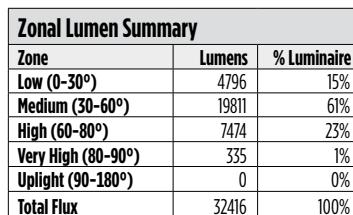
[Back to Quick Links](#)

Luminaire photometry has been conducted by a NVLAP accredited testing laboratory in accordance with IESNA LM-79-08. As specified by IESNA LM-79-08 the entire luminaire is tested as the source resulting in a luminaire efficiency of 100%.

See the individual product page on <https://www.lsicorp.com/> for detailed photometric data.

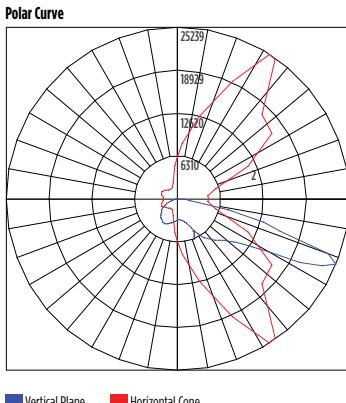
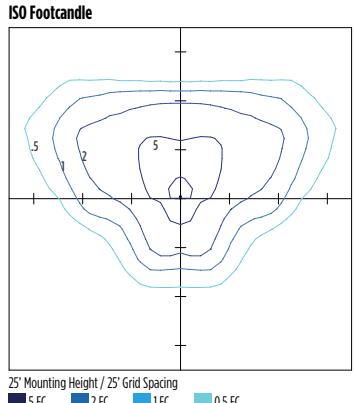
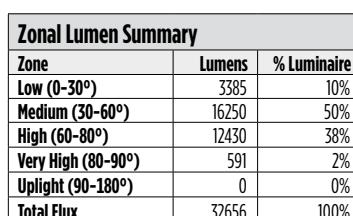
**MRM-LED-30L-SIL-2-40-70CRI**

| <b>Luminaire Data</b>      |                     |
|----------------------------|---------------------|
| <b>Type 2 Distribution</b> |                     |
| <b>Description</b>         | 4000 Kelvin, 70 CRI |
| <b>Delivered Lumens</b>    | 32,416              |
| <b>Watts</b>               | 232                 |
| <b>Efficacy</b>            | 140                 |
| <b>IES Type</b>            | Type II - Short     |
| <b>BUG Rating</b>          | B4-U0-G3            |



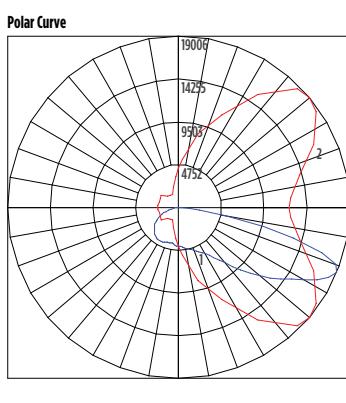
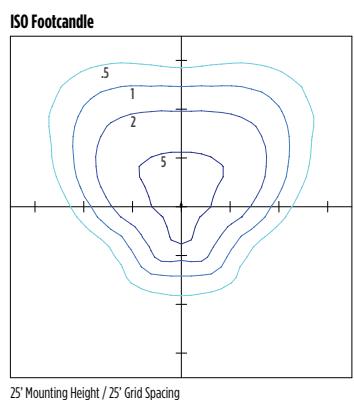
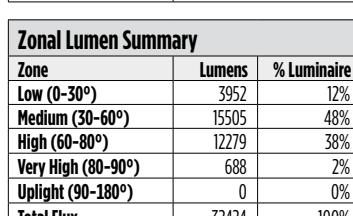
**MRM-LED-30L-SIL-3-40-70CRI**

| <b>Luminaire Data</b>      |                     |
|----------------------------|---------------------|
| <b>Type 3 Distribution</b> |                     |
| <b>Description</b>         | 4000 Kelvin, 70 CRI |
| <b>Delivered Lumens</b>    | 32,656              |
| <b>Watts</b>               | 232                 |
| <b>Efficacy</b>            | 141                 |
| <b>IES Type</b>            | Type III - Short    |
| <b>BLIIC Rating</b>        | B3-I10-G4           |



MRM-LED-30L-SIL-FT-40-70CR

| Luminaire Data       |                     |
|----------------------|---------------------|
| Type FT Distribution |                     |
| Description          | 4000 Kelvin, 70 CRI |
| Delivered Lumens     | 32,424              |
| Watts                | 232                 |
| Efficacy             | 140                 |
| IES Type             | Type IV - Short     |
| RJIC Rating          | R2, U2, C4          |



# Mirada Medium Outdoor LED Area Light

Type : \_\_\_\_\_

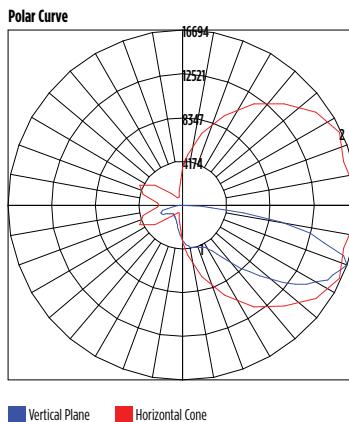
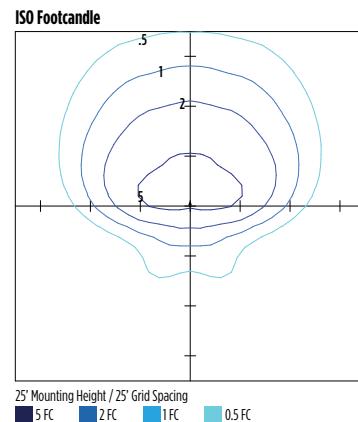
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## PHOTOMETRICS (CONT)

### MRM-LED-30L-SIL-4-40-70CRI

| Luminaire Data      |                      |
|---------------------|----------------------|
| Type 4 Distribution |                      |
| Description         | 4000 Kelvin, 70 CRI  |
| Delivered Lumens    | 32,141               |
| Watts               | 213                  |
| Efficacy            | 151                  |
| IES Type            | Type IV - Very Short |
| BUG Rating          | B3-U0-G5             |

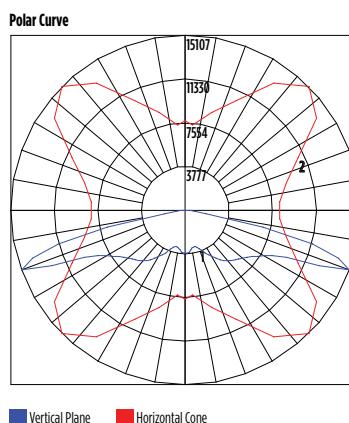
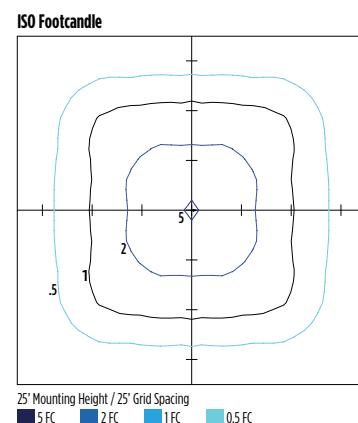
| Zonal Lumen Summary |        |             |
|---------------------|--------|-------------|
| Zone                | Lumens | % Luminaire |
| Low (0-30°)         | 3119   | 10%         |
| Medium (30-60°)     | 13569  | 42%         |
| High (60-80°)       | 13649  | 42%         |
| Very High (80-90°)  | 1804   | 6%          |
| Uplight (90-180°)   | 0      | 0%          |
| Total Flux          | 32141  | 100%        |



### MRM-LED-30L-SIL-5W-40-70CRI

| Luminaire Data       |                     |
|----------------------|---------------------|
| Type 5W Distribution |                     |
| Description          | 4000 Kelvin, 70 CRI |
| Delivered Lumens     | 31,267              |
| Watts                | 232                 |
| Efficacy             | 135                 |
| IES Type             | Type VS - Short     |
| BUG Rating           | B5-U0-G3            |

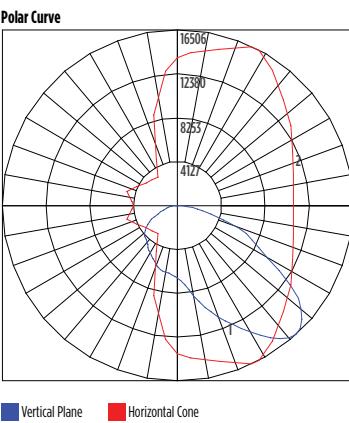
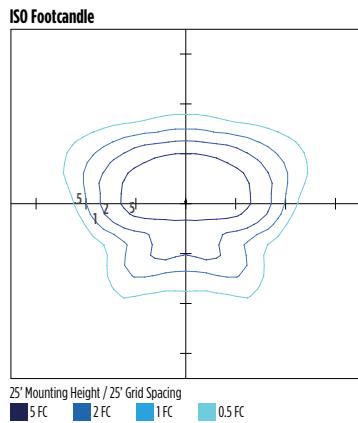
| Zonal Lumen Summary |        |             |
|---------------------|--------|-------------|
| Zone                | Lumens | % Luminaire |
| Low (0-30°)         | 3138   | 10%         |
| Medium (30-60°)     | 13193  | 42%         |
| High (60-80°)       | 14641  | 47%         |
| Very High (80-90°)  | 296    | 1%          |
| Uplight (90-180°)   | 0      | 0%          |
| Total Flux          | 31267  | 100%        |



### MRM-LED-30L-SIL-FTA-40-70CRI

| Luminaire Data        |                     |
|-----------------------|---------------------|
| Type FTA Distribution |                     |
| Description           | 4000 Kelvin, 70 CRI |
| Delivered Lumens      | 32,566              |
| Watts                 | 232                 |
| Efficacy              | 140                 |
| IES Type              | Type VS - Short     |
| BUG Rating            | B4-U0-G3            |

| Zonal Lumen Summary |        |             |
|---------------------|--------|-------------|
| Zone                | Lumens | % Luminaire |
| Low (0-30°)         | 6986   | 21%         |
| Medium (30-60°)     | 19172  | 59%         |
| High (60-80°)       | 5875   | 18%         |
| Very High (80-90°)  | 534    | 2%          |
| Uplight (90-180°)   | 0      | 0%          |
| Total Flux          | 32566  | 100%        |



# Mirada Medium Outdoor LED Area Light

Type: \_\_\_\_\_

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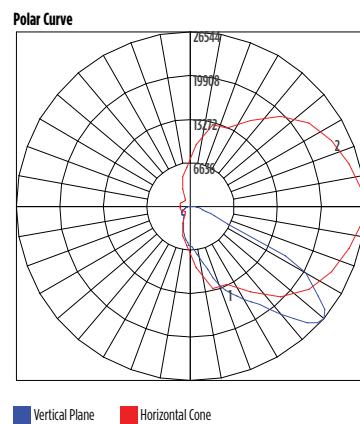
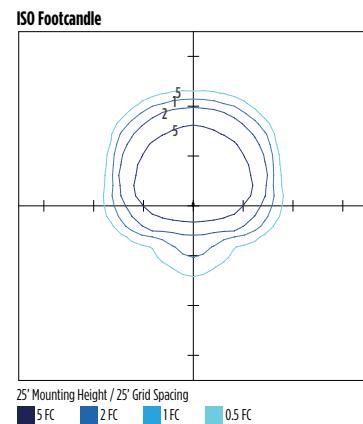
## PHOTOMETRICS (CONT)

[Back to Quick Links](#)

### MRM-LED-30L-SIL-AM-40-70CRI

| Luminaire Data       |                       |
|----------------------|-----------------------|
| Type AM Distribution |                       |
| Description          | 4000 Kelvin, 70 CRI   |
| Delivered Lumens     | 32,960                |
| Watts                | 232                   |
| Efficacy             | 142                   |
| IES Type             | Type III - Very Short |
| BUG Rating           | B3-U0-G3              |

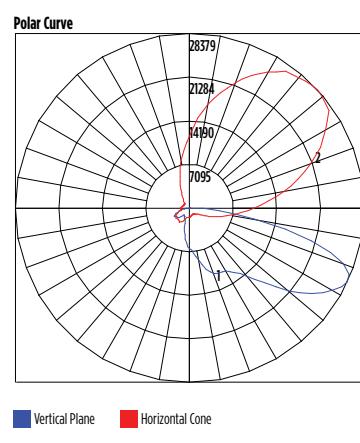
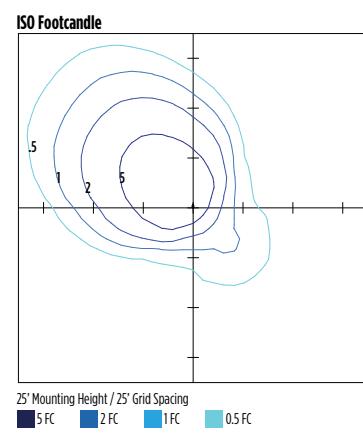
| Zonal Lumen Summary |        |             |
|---------------------|--------|-------------|
| Zone                | Lumens | % Luminaire |
| Low (0-30°)         | 6363   | 19%         |
| Medium (30-60°)     | 22026  | 67%         |
| High (60-80°)       | 4192   | 13%         |
| Very High (80-90°)  | 379    | 1%          |
| Uplight (90-180°)   | 0      | 0%          |
| Total Flux          | 32960  | 100%        |



### MRM-LED-30L-SIL-LC-40-70CRI

| Luminaire Data           |                     |
|--------------------------|---------------------|
| Left Corner Distribution |                     |
| Description              | 4000 Kelvin, 70 CRI |
| Delivered Lumens         | 32,498              |
| Watts                    | 213                 |
| Efficacy                 | 153                 |
| IES Type                 | N/A                 |
| BUG Rating               | B3-U0-G5            |

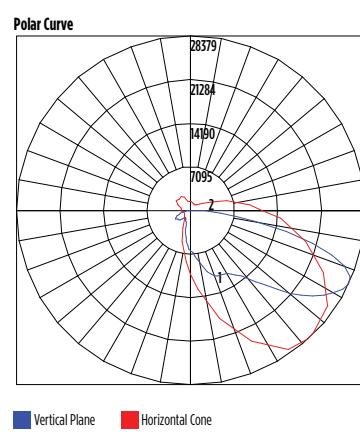
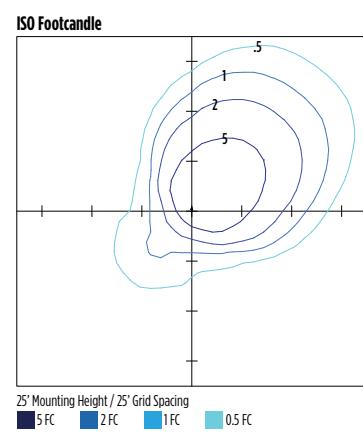
| Zonal Lumen Summary |        |             |
|---------------------|--------|-------------|
| Zone                | Lumens | % Luminaire |
| Low (0-30°)         | 5083   | 16%         |
| Medium (30-60°)     | 14808  | 46%         |
| High (60-80°)       | 11603  | 36%         |
| Very High (80-90°)  | 1005   | 3%          |
| Uplight (90-180°)   | 0      | 0%          |
| Total Flux          | 32498  | 100%        |



### MRM-LED-30L-SIL-RC-40-70CRI

| Luminaire Data            |                     |
|---------------------------|---------------------|
| Right Corner Distribution |                     |
| Description               | 4000 Kelvin, 70 CRI |
| Delivered Lumens          | 32,498              |
| Watts                     | 213                 |
| Efficacy                  | 153                 |
| IES Type                  | N/A                 |
| BUG Rating                | B3-U0-G5            |

| Zonal Lumen Summary |        |             |
|---------------------|--------|-------------|
| Zone                | Lumens | % Luminaire |
| Low (0-30°)         | 5083   | 16%         |
| Medium (30-60°)     | 14808  | 46%         |
| High (60-80°)       | 11603  | 36%         |
| Very High (80-90°)  | 1005   | 3%          |
| Uplight (90-180°)   | 0      | 0%          |
| Total Flux          | 32498  | 100%        |

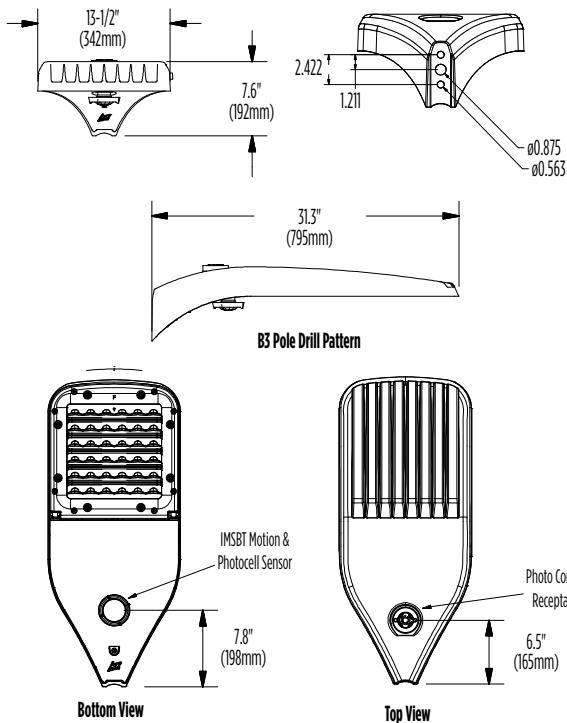


# Mirada Medium Outdoor LED Area Light

Type: \_\_\_\_\_

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## PRODUCT DIMENSIONS



### Luminaire EPA Chart

| Tilt Degree   | 0°  | 15° | 30° | 45° |
|---|-----|-----|-----|-----|
|  <b>Single</b> | 0.5 | 1.0 | 1.5 | 1.9 |
|  <b>D180°</b>  | 1.0 | 1.5 | 1.5 | 1.9 |
|  <b>D90°</b>   | 0.8 | 1.8 | 1.9 | 2.3 |
|  <b>T90°</b>   | 1.0 | 4.0 | 2.5 | 2.8 |
|  <b>TN120°</b> | 1.0 | 2.9 | 3.3 | 3.9 |
|  <b>Q90°</b>   | 1.0 | 4.0 | 2.5 | 2.8 |



# Mirada Medium Outdoor LED Area Light

Type: \_\_\_\_\_

 **Have questions?** Call us at (800) 436-7800

## CONTROLS

### Integral Bluetooth™ Motion and Photocell Sensor (IMSBTxL)

Slim low profile sensor provides multi-level control based on motion and/or daylight. Sensor controls 0-10 VDC LED drivers and is IP66 rated for cold and wet locations (-40°F to 167°F). Two unique PIR lenses are available and used based on fixture mounting height. All control parameters are adjustable via an iOS or Android App capable of storing and transmitting sensor profiles.

[Click here to learn more details about IMSBT](#)



LEVITON App



Apple



Android

### AirLink Blue (ALBCSx)

Wireless Bluetooth Mesh Outdoor Lighting Control System that provides energy savings, code compliance and enhanced safety/security for parking lots and parking garages. Three key components; Bluetooth wireless radio/sensor controller, Time Keeper and an iOS App. Capable of grouping multiple fixtures and sensors as well as scheduling time-based events by zone. Radio/Sensor Controller is factory integrated into Area/Site, Wall Mounted, Parking Garage and Canopy luminaires.

[Click here to learn more details about AirLink Blue](#)



AirLink Blue App



Apple

## Sensor Sequence of Operations

| Standard Programming | On Event | Off Event | On Light Level | Dim Light Level | Daylight Harvesting  | Delay To Off | Sensitivity |
|----------------------|----------|-----------|----------------|-----------------|----------------------|--------------|-------------|
| OMSBTxL/IMSBTxL      | Motion   | No Motion | 100%           | N/A             | On; Auto Calibration | 20 minutes   | High        |
| OMS                  | Motion   | No Motion | N/A            | N/A             | N/A                  | 30 seconds   | Auto        |

| Operation       | Description  |
|-----------------|--|
| On Event        | Trigger that activates lights to turn on; either automatic via motion detected or manually activated via push of button.   |
| Off Event       | Trigger that activates lights to turn off; either automatic via no motion detected or manually activated via push of button.   |
| On Light Level  | The light level that the fixtures will turn on to when ON EVENT occurs.  |
| Dim Light Level | The light level that the fixtures will dim down to when no motion is detected.   |
| Delay to Dim    | The amount of time after which no motion is detected that the fixtures will be triggered to dim down. This sequence is optional, and sensor can be programmed to only trigger the fixture to turn off by entering 100% in this field.  |
| Delay to Off    | The amount of time after which no motion is detected that the fixtures will be triggered to turn off. If delay to dim is part of the programmed functionality, this is the amount of time after which no motion is detected after the fixture have already dimmed down.  |
| Sensitivity     | The sensitivity can be set to high, medium, low, or auto where applicable. High will detect smaller, simple motions. Low will only detect larger more complex motions. Auto temperature calibration adjusts the PIR sensitivity as ambient temperature rises to increase detection of heat movement through the field of view. |



# Mirada Medium (MRM)

## Outdoor LED Area Light



IP66 IK08



| OVERVIEW             |                             |
|----------------------|-----------------------------|
| Lumen Package        | 7,000 - 55,000              |
| Wattage Range        | 48 - 438                    |
| Efficacy Range (LPW) | 115 - 162                   |
| Weight lbs(kg)       | 30 (13.6)                   |
| Control Options      | IMSBT, ALB, ALS, 7-Pin, PCI |

### QUICK LINKS

[Ordering Guide](#)[Performance](#)[Photometrics](#)[Dimensions](#)

## FEATURES & SPECIFICATIONS

### Construction

- Rugged die-cast aluminum housing contains factory prewired driver and optical unit. Cast aluminum wiring access door located underneath.
- Designed to mount to square or round poles.
- Fixtures are finished with LSI's DuraGrip® polyester powder coat finishing process. The DuraGrip finish withstands extreme weather changes without cracking or peeling. Other standard LSI finishes available. Consult factory.
- Shipping weight: 37 lbs in carton.

### Optical System

- State-of-the-Art one piece silicone optic sheet delivers industry leading optical control with an integrated gasket to provide IP66 rated sealed optical chamber in 1 component.
- Proprietary silicone refractor optics provide exceptional coverage and uniformity in IES Types 2, 3, 4, 5W, FT, FTA, AM, and LC/RC.
- Silicone optical material does not yellow or crack with age and provides a typical light transmittance of 93-95%.
- Zero uplight.
- Available in 5000K, 4000K, and 3000K color temperatures per ANSI C78.377. Also Available in Phosphor Converted Amber with Peak intensity at 610nm.
- Minimum CRI of 70.
- Integral louver (IL) and integral half louver (IH) options available for enhanced backlight control.

### Electrical

- High-performance programmable driver features over-voltage, under-voltage, short-circuit and over temperature protection. Custom lumen and wattage packages available.
- 0-10V dimming (10% - 100%) standard.
- Standard Universal Voltage (120-277 Vac) Input 50/60 Hz or optional High Voltage (347-480 Vac).
- L80 Calculated Life: >100k Hours (See Lumen Maintenance chart)
- Total harmonic distortion: <20%
- Operating temperature: -40°C to +50°C (-40°F to +122°F). 42L and 48L lumen packages rated to +40°C. 55L lumen package rate to +35°C.
- Power factor: >.90
- Input power stays constant over life.
- Field replaceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).
- High-efficacy LEDs mounted to metal-core circuit board to maximize heat dissipation
- Components are fully encased in potting material for moisture resistance. Driver complies with FCC standards. Driver and key electronic components can easily be accessed.

### Controls

- Optional integral passive infrared Bluetooth™ motion. Fixtures operate independently and can be commissioned via iOS or Android configuration app
- LSI's AirLink™ wireless control system options reduce energy and maintenance

costs while optimizing light quality 24/7. (see controls section for more details).

### Installation

- Designed to mount to square or round poles.
- A single fastener secures the hinged door, underneath the housing and provides quick & easy access to the electrical compartment.
- Included terminal block accepts up to 12 ga. wire.
- Utilizes LSI's traditional 3" drill pattern B3 for easy fastening of LSI products.

### Warranty

- LSI LED Fixtures carry a 5-year warranty.

### Listings

- Listed to UL 1598 and UL 8750.
- Meets Buy American Act requirements.
- IDA compliant; with 3000K color temperature selection.
- Title 24 Compliant; see local ordinance for qualification information.
- RoHS compliant
- Suitable for wet Locations.
- IP66 rated Luminaire per IEC 60598.
- 3G rated for ANSI C136.31 high vibration applications are qualified.
- DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at [www.designlights.org/QPL](http://www.designlights.org/QPL) to confirm which versions are qualified.
- Patented Silicone Optics (US Patent NO. 10,816,165 B2)
- IK08 rated luminaire per IEC 66262 mechanical impact code



# Mirada Medium Outdoor LED Area Light

Type : \_\_\_\_\_

 **Have questions?** Call us at (800) 436-7800

## ORDERING GUIDE

[Back to Quick Links](#)

**TYPICAL ORDER EXAMPLE: MRM LED 36L SIL FTA UNV DIM 50 70CRI ALSC04 BRZ IL**

| Prefix                         | Light Source | Lumen Package   | Lens           | Distribution   | Orientation <sup>2</sup>  | Voltage  | Driver                      |
|--------------------------------|--------------|---|----------------|--|---|--|-----------------------------|
| MRM - Mirada Medium Area Light | LED          | 7L - 7,000 lms, 48W<br>9L - 9,000 lms, 62W<br>12L - 12,000 lms, 85W<br>18L - 18,000 lms, 135W<br>24L - 24,000 lms, 176W<br>30L - 30,000 lms, 232W<br>36L - 36,000 lms, 288W<br>42L - 42,000 lms, 314W<br>48L - 48,000 lms, 401W<br>55L - 55,000 lms, 438W<br>Custom Lumen Packages <sup>1</sup> | SIL - Silicone | 2 - Type 2<br>3 - Type 3<br>4 - Type 4<br>5W - Type 5 Wide<br>FT - Forward Throw<br>FTA - Forward Throw Automotive<br>AM - Automotive Merchandise<br>LC - Left Corner<br>RC - Right Corner | (blank) - standard<br>L - Optics rotated left 90°<br>R - Optics rotated right 90° | UNV - Universal Voltage (120-277V)<br>HV - High Voltage (347-480V) | DIM - 0-10V Dimming (0-10%) |

| Color Temp   | Color Rendering | Finish   | Options  |
|--|-----------------|--|--|
| 50 - 5,000 CCT<br>40 - 4,000 CCT<br>30 - 3,000 CCT<br>AMB - Phosphor Converted Amber <sup>12</sup> | 70CRI - 70 CRI  | BLK - Black<br>BRZ - Dark Bronze<br>GMG - Gun Metal Gray<br>GPT - Graphite | MSV - Metallic Silver<br>PLP - Platinum Plus<br>SVG - Satin Verde Green<br>WHT - White<br>(Blank) - None<br>IH - Integral Half Louver (Moderate Spill Light Cutoff) <sup>2</sup><br>IL - Integral Louver (Sharp Spill Light Cutoff) <sup>2</sup> |

### Controls (Choose One)

(Blank) - None

#### Wireless Controls System

ALSC - AirLink Synapse Control System<sup>13</sup>

ALSC02 - AirLink Synapse Control System with 12-20' Motion Sensor<sup>13</sup>

ALSC04 - AirLink Synapse Control System with 20-40' Motion Sensor<sup>13</sup>

ALBCS1 - AirLink Blue Wireless Motion & Photo Sensor Controller (8-24' mounting height)<sup>5</sup>

ALBCS2 - AirLink Blue Wireless Motion & Photo Sensor Controller (25-40' mounting height)<sup>5</sup>

#### Stand-Alone Controls

EXT - 0-10v Dimming leads extended to housing exterior

CR7P - 7 Pin Control Receptacle ANSI C136.41<sup>6</sup>

IMSBT1 - Integral Bluetooth™ Motion and Photocell Sensor (8-24' MH)<sup>5</sup>

IMSBT2 - Integral Bluetooth™ Motion and Photocell Sensor (25-40' MH)<sup>5</sup>

#### Button Type Photocells

PC120 - 120V

PC1208-277 - 208 -277V

PC1347 - 347V



**Need more information?**

Click here for our glossary

**Have additional questions?**

Call us at (800) 436-7800



## ACCESSORY ORDERING INFORMATION<sup>7</sup>

| CONTROLS ACCESSORIES   |                |
|--|----------------|
| Description  | Order Number   |
| PC120 Photocell for use with CR7P option (120V) <sup>8</sup>                 | <b>122514</b>  |
| PC208-277 Photocell for use with CR7P option (208V, 240V, 277V) <sup>8</sup> | <b>122515</b>  |
| Twist Lock Photocell (347V) for use with CR7P <sup>8</sup>                   | <b>122516</b>  |
| Twist Lock Photocell (480V) for use with CR7P <sup>8</sup>                   | <b>1225180</b> |
| AirLink 5 Pin Twist Lock Controller (120-277V Only) <sup>8</sup>             | <b>661409</b>  |
| AirLink 7 Pin Twist Lock Controller (120-277V Only) <sup>8</sup>             | <b>661410</b>  |
| AirLink 7 Pin Twist Lock Controller (347-480V)                               | <b>679948</b>  |
| Shorting Cap for use with CR7P   | <b>149328</b>  |

| FUSING OPTIONS <sup>11</sup> |  |
|------------------------------|--|
| Single Fusing (120V)         |  |
| Single Fusing (277V)         |  |
| Double Fusing (208V, 240V)   |  |
| Double Fusing (480V)         |  |
| Double Fusing (347V)         |  |

[See Fusing Accessory Guide](#)

| SHIELDING OPTIONS |  |
|-------------------|--|
| Mirada Small      |  |
| Mirada Medium     |  |
| Mirada Large      |  |
| Zone Medium       |  |
| Zone Large        |  |
| Slice Medium      |  |

[See Shielding Guide](#)

1. Custom lumen and wattage packages available, consult factory. Values are within industry standard tolerances but not DLC listed.
2. Not available with 5W distribution
3. Consult Factory for availability.
4. Not available in HV.
5. Motion sensors are field configurable via an app that can be downloaded from your smartphone's native app store. See controls section for more details.
6. Control device or shorting cap must be ordered separately. See Accessory Ordering Information.
7. Accessories are shipped separately and field installed.
8. Factory installed CR7P option required. See Options.
9. "CLR" denotes finish. See Finish options.
10. Only available with ALSC/ALSC04 control options.
11. Fusing must be located in hand hole of pole. See [Fusing Accessory Guide](#) for compatibility.
12. Only available in 9L, 12L, 18L and 24L Lumen Packages. Consult factory for lead time and availability.
13. Not available with 55L Lumen Package.

# Mirada Medium Outdoor LED Area Light

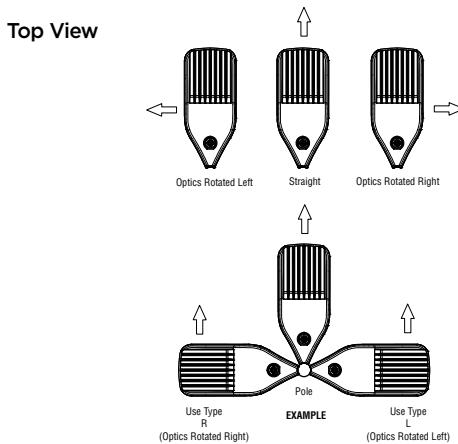
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Type: \_\_\_\_\_

## ACCESSORIES

| MOUNTING ACCESSORIES  |  |   | SHIELDING, POLES & MISC. ACCESSORIES |  |   |
|-----------------------|--|---|--------------------------------------|--|---|
| Side Arm              | <b>Universal Mounting Bracket</b><br>Mounts to ≥ 3" square or round (tapered/straight) poles with (2) mounting hole spaces between 3.5" to 5"<br><br>Part Number: BKA UMB CLR      |    | Shielding                            | <b>Integral Louver</b><br>Field Install Integral Louver provides maximum backlight control by shielding each individual row of LEDs<br><br>Part Number: 690981   |    |
|                       | <b>Quick Mount Plate</b><br>True one person installation to existing/new construction poles with hole spaces between 2.4 to 4.6"<br><br>Part Number: BKS PQM B3B5 XX CLR           |    |                                      | <b>Integral Half Louver</b><br>Field Install Integral Half Louver provides great backlight control without impacting front side distribution.<br><br>Part Number: 743415   |    |
|                       | <b>15° Tilt Quick Mount Plate</b><br>True one person installation to existing/new construction poles with hole spaces between 2.4 to 4.6"<br><br>Part Number: BKS PQ15 B3B5 XX CLR |    |                                      | <b>External Shield</b><br>External shield blocks view of light source from any side of luminaire, additional shielding configurations available<br><br>Part Number: 783607BLK (3") / 776538BLK (6")  |    |
| Tenon / Slipfitter    | <b>Adjustable Slipfitter</b><br>Mounts onto a 2" (51mm) IP, 2.375" (60mm) O.D. tenon and provides 180° of tilt (max 45° above horizontal)<br><br>Part Number: BKA ASF CLR          |    | Poles                                | <b>Square Poles</b><br>14 - 39' steel and aluminum poles in 4", 5" and 6" sizes for retrofit and new construction<br><br>Part Number: 4SQ/5SQ/6SQ  |    |
|                       | <b>Square Tenon Top</b><br>Mounts onto a 2" (51mm) IP, 2.375" (60mm) O.D. tenon and allows for mounting up to 4 luminaires<br><br>Part Number: BKA XNM *                           |    |                                      | <b>Round Poles</b><br>10 - 30' steel and aluminum poles in 4" and 5" sizes for retrofit and new construction<br><br>Part Number: 4RP/5RP   |    |
|                       | <b>Square Internal Slipfitter</b><br>Mounts inside 4" or 5" square pole and allows for mounting up to 4 luminaires<br><br>Part Number: BKA X_ISF * CLR                             |  |                                      | <b>Tapered Poles</b><br>20' - 39' steel and aluminum poles for retrofit and new construction<br><br>Part Number: RTP   |  |
| Wall Mount/ Wood Pole | <b>Wall Mount Bracket</b><br>Mounts onto vertical wall surface (hardware/anchors not included)<br><br>Part Number: BKS XBO WM CLR  |  | Misc.                                | <b>Bird Spikes</b><br>10' Linear Bird Spike Kit, 4' recommended per luminaire, includes silicone adhesive and application tool<br><br>Spike Part Number: 751631<br>Adhesive Part Number: 751632<br>Caulk Gun Part Number: 751636   |  |
|                       | <b>Wood Pole Bracket</b><br>Mounts onto wooden poles (6" minimum OD, hardware/anchors not included)<br><br>Part Number: BKS XBO WP CLR   |  |                                      | Replace CLR with paint finish description<br>Replace X with: 3<br>Replace XX with SQ for square pole or RD for round pole (≥3" OD)<br>Replace * with S (Single), D180 (Double @180°), D90 (Double @90°), T90 (Triple), Q90 (Quad)<br>Replace _ with 4 (4" square pole) or 5 (5" square pole) |   |

## OPTICS ROTATION



## ACCESSORIES/OPTIONS

### Integral Louver (IL) and House-Side Shield (IH)

Integral Louver (IL) and half louver (IH) accessory shields available for improved backlight control without sacrificing street side performance. LSI's Integral Louver (IL) and Integral House-Side Shield (IH) options deliver backlight control that significantly reduces spill light behind the poles for applications with pole locations close to adjacent properties. The design maximizes forward reflected light while reducing glare, maintaining the optical distribution selected, and most importantly eliminating light trespass. Both options rotate

Luminaire Shown with Integral Louver (IL)



Luminaire Shown with IMSBTL Option



### 7 Pin Photoelectric Control

7-pin ANSI C136.41-2013 control receptacle option available for twist lock photocontrols or wireless control modules. Control accessories sold separately. Dimming leads from the receptacle will be connected to the driver dimming leads (Consult factory for alternate wiring).

Luminaire Shown with CR7P



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SPEC.1020.B.0422

# Mirada Medium Outdoor LED Area Light

Type: \_\_\_\_\_

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## PERFORMANCE

[Back to Quick Links](#)

| DELIVERED LUMENS* |              |     |                  |          |            |                  |          |            |                  |          |            |
|-------------------|--------------|-----|------------------|----------|------------|------------------|----------|------------|------------------|----------|------------|
| Lumen Package     | Distribution | CRI | 3000K CCT        |          |            | 4000K CCT        |          |            | 5000K CCT        |          |            |
|                   |              |     | Delivered Lumens | Efficacy | BUG Rating | Delivered Lumens | Efficacy | BUG Rating | Delivered Lumens | Efficacy | BUG Rating |
| 9L                | 2            | 70  | 9853             | 159      | B2-U0-G2   | 9853             | 159      | B2-U0-G2   | 9853             | 159      | B2-U0-G2   |
|                   | 3            |     | 9926             | 160      | B2-U0-G2   | 9926             | 160      | B2-U0-G2   | 9926             | 160      | B2-U0-G2   |
|                   | 4            |     | 9178             | 148      | B2-U0-G3   | 9713             | 157      | B2-U0-G3   | 9498             | 153      | B2-U0-G3   |
|                   | 5W           |     | 9504             | 153      | B3-U0-G2   | 9504             | 153      | B3-U0-G2   | 9504             | 153      | B3-U0-G2   |
|                   | FT           |     | 9856             | 159      | B2-U0-G3   | 9856             | 159      | B2-U0-G3   | 9856             | 159      | B2-U0-G3   |
|                   | FTA          |     | 9900             | 160      | B2-U0-G2   | 9900             | 160      | B2-U0-G2   | 9900             | 160      | B2-U0-G2   |
|                   | AM           |     | 10019            | 162      | B2-U0-G1   | 10019            | 162      | B2-U0-G1   | 10019            | 162      | B2-U0-G1   |
|                   | LC/RC        |     | 9008             | 145      | B2-U0-G3   | 9533             | 154      | B2-U0-G3   | 9321             | 150      | B2-U0-G3   |
| 12L               | 2            | 70  | 13135            | 155      | B3-U0-G2   | 13135            | 155      | B3-U0-G2   | 13135            | 155      | B3-U0-G2   |
|                   | 3            |     | 13232            | 156      | B2-U0-G2   | 13232            | 156      | B2-U0-G2   | 13232            | 156      | B2-U0-G2   |
|                   | 4            |     | 12223            | 144      | B2-U0-G3   | 12935            | 152      | B2-U0-G4   | 12648            | 149      | B2-U0-G4   |
|                   | 5W           |     | 12669            | 149      | B4-U0-G2   | 12669            | 149      | B4-U0-G2   | 12669            | 149      | B4-U0-G2   |
|                   | FT           |     | 13138            | 155      | B2-U0-G3   | 13138            | 155      | B2-U0-G3   | 13138            | 155      | B2-U0-G3   |
|                   | FTA          |     | 13196            | 155      | B2-U0-G2   | 13196            | 155      | B2-U0-G2   | 13196            | 155      | B2-U0-G2   |
|                   | AM           |     | 13355            | 157      | B2-U0-G2   | 13355            | 157      | B2-U0-G2   | 13355            | 157      | B2-U0-G2   |
|                   | LC/RC        |     | 11996            | 141      | B2-U0-G3   | 12695            | 149      | B2-U0-G3   | 12414            | 146      | B2-U0-G3   |
| 18L               | 2            | 70  | 19318            | 143      | B3-U0-G3   | 19318            | 143      | B3-U0-G3   | 19318            | 143      | B3-U0-G3   |
|                   | 3            |     | 19461            | 144      | B3-U0-G3   | 19461            | 144      | B3-U0-G3   | 19461            | 144      | B3-U0-G3   |
|                   | 4            |     | 18013            | 133      | B2-U0-G4   | 19063            | 141      | B3-U0-G5   | 18640            | 138      | B3-U0-G5   |
|                   | 5W           |     | 18633            | 138      | B4-U0-G2   | 18633            | 138      | B4-U0-G2   | 18633            | 138      | B4-U0-G2   |
|                   | FT           |     | 19324            | 143      | B3-U0-G3   | 19324            | 143      | B3-U0-G3   | 19324            | 143      | B3-U0-G3   |
|                   | FTA          |     | 19408            | 144      | B3-U0-G3   | 19408            | 144      | B3-U0-G3   | 19408            | 144      | B3-U0-G3   |
|                   | AM           |     | 19641            | 145      | B3-U0-G2   | 19641            | 145      | B3-U0-G2   | 19641            | 145      | B3-U0-G2   |
|                   | LC/RC        |     | 17679            | 131      | B2-U0-G3   | 18710            | 139      | B2-U0-G3   | 18295            | 136      | B2-U0-G3   |
| 24L               | 2            | 70  | 24142            | 147      | B4-U0-G3   | 25957            | 147      | B4-U0-G3   | 25957            | 147      | B4-U0-G3   |
|                   | 3            |     | 25001            | 149      | B3-U0-G3   | 26149            | 149      | B3-U0-G3   | 26149            | 149      | B3-U0-G3   |
|                   | 4            |     | 24396            | 152      | B3-U0-G5   | 25600            | 160      | B3-U0-G5   | 25457            | 159      | B3-U0-G5   |
|                   | 5W           |     | 24327            | 142      | B5-U0-G3   | 25037            | 142      | B5-U0-G3   | 25037            | 142      | B5-U0-G3   |
|                   | FT           |     | 24994            | 148      | B3-U0-G3   | 25964            | 148      | B3-U0-G3   | 25964            | 148      | B3-U0-G3   |
|                   | FTA          |     | 24171            | 148      | B3-U0-G3   | 26077            | 148      | B4-U0-G3   | 26077            | 148      | B4-U0-G3   |
|                   | AM           |     | 24939            | 150      | B3-U0-G2   | 26393            | 150      | B3-U0-G2   | 26393            | 150      | B3-U0-G2   |
|                   | LC/RC        |     | 25884            | 162      | B3-U0-G4   | 25884            | 162      | B3-U0-G4   | 25310            | 158      | B3-U0-G4   |
| 30L               | 2            | 70  | 30171            | 140      | B4-U0-G3   | 32417            | 140      | B4-U0-G3   | 32417            | 140      | B4-U0-G3   |
|                   | 3            |     | 31243            | 141      | B3-U0-G4   | 32656            | 141      | B3-U0-G4   | 32656            | 141      | B3-U0-G4   |
|                   | 4            |     | 30651            | 144      | B3-U0-G5   | 32141            | 151      | B3-U0-G5   | 31961            | 150      | B3-U0-G5   |
|                   | 5W           |     | 30402            | 135      | B5-U0-G3   | 31267            | 135      | B5-U0-G3   | 31267            | 135      | B5-U0-G3   |
|                   | FT           |     | 31233            | 140      | B4-U0-G4   | 32424            | 140      | B4-U0-G4   | 32424            | 140      | B4-U0-G4   |
|                   | FTA          |     | 30207            | 140      | B4-U0-G4   | 32566            | 140      | B4-U0-G4   | 32566            | 140      | B4-U0-G4   |
|                   | AM           |     | 3116             | 142      | B4-U0-G3   | 32960            | 142      | B4-U0-G3   | 32960            | 142      | B4-U0-G3   |
|                   | LC/RC        |     | 32498            | 153      | B3-U0-G5   | 32498            | 153      | B3-U0-G5   | 31777            | 149      | B3-U0-G5   |

\*LEDs are frequently updated therefore values are nominal.



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SPEC.1020.B.0422

# Mirada Medium Outdoor LED Area Light

Type : \_\_\_\_\_

 Have questions? Call us at (800) 436-7800

## PERFORMANCE (CONT.)

| DELIVERED LUMENS* |              |     |                  |          |            |                  |          |            |                  |          |            |         |
|-------------------|--------------|-----|------------------|----------|------------|------------------|----------|------------|------------------|----------|------------|---------|
| Lumen Package     | Distribution | CRI | 3000K CCT        |          |            | 4000K CCT        |          |            | 5000K CCT        |          |            | Wattage |
|                   |              |     | Delivered Lumens | Efficacy | BUG Rating | Delivered Lumens | Efficacy | BUG Rating | Delivered Lumens | Efficacy | BUG Rating |         |
| 36L               | 2            | 70  | 35357            | 133      | B4-U0-G3   | 38275            | 133      | B4-U0-G3   | 38275            | 133      | B4-U0-G3   | 288     |
|                   | 3            |     | 36614            | 134      | B4-U0-G4   | 38557            | 134      | B4-U0-G4   | 38557            | 134      | B4-U0-G4   |         |
|                   | 4            |     | 35402            | 139      | B3-U0-G5   | 37148            | 146      | B4-U0-G5   | 36940            | 145      | B4-U0-G5   |         |
|                   | 5W           |     | 35627            | 128      | B5-U0-G4   | 36917            | 128      | B5-U0-G4   | 36917            | 128      | B5-U0-G4   |         |
|                   | FT           |     | 36602            | 133      | B4-U0-G4   | 38283            | 133      | B4-U0-G4   | 38283            | 133      | B4-U0-G4   |         |
|                   | FTA          |     | 35399            | 134      | B4-U0-G4   | 38450            | 134      | B4-U0-G4   | 38450            | 134      | B4-U0-G4   |         |
|                   | AM           |     | 36524            | 135      | B4-U0-G3   | 38916            | 135      | B4-U0-G3   | 38916            | 135      | B4-U0-G3   |         |
|                   | LC/RC        |     | 37561            | 147      | B3-U0-G5   | 37561            | 147      | B3-U0-G5   | 36727            | 144      | B3-U0-G5   |         |
|                   | 2            |     | 41035            | 131      | B5-U0-G4   | 42602            | 136      | B5-U0-G4   | 42542            | 135      | B5-U0-G4   | 314     |
| 42L               | 3            | 70  | 42493            | 135      | B4-U0-G5   | 44115            | 140      | B4-U0-G5   | 44053            | 140      | B4-U0-G5   |         |
|                   | 4            |     | 41453            | 132      | B4-U0-G5   | 43497            | 138      | B4-U0-G5   | 43254            | 138      | B4-U0-G5   |         |
|                   | 5W           |     | 41349            | 132      | B5-U0-G4   | 42927            | 134      | B5-U0-G4   | 42866            | 137      | B5-U0-G4   |         |
|                   | FT           |     | 42481            | 135      | B4-U0-G4   | 44103            | 140      | B4-U0-G4   | 44040            | 140      | B4-U0-G4   |         |
|                   | FTA          |     | 41083            | 131      | B4-U0-G4   | 42652            | 136      | B5-U0-G4   | 42591            | 136      | B5-U0-G4   |         |
|                   | AM           |     | 42389            | 135      | B4-U0-G3   | 44007            | 140      | B4-U0-G3   | 43944            | 140      | B4-U0-G3   |         |
|                   | LC/RC        |     | 43980            | 140      | B3-U0-G5   | 43980            | 140      | B3-U0-G5   | 43004            | 137      | B3-U0-G5   |         |
|                   | 2            | 70  | 45133            | 123      | B5-U0-G4   | 46856            | 128      | B5-U0-G4   | 46789            | 128      | B5-U0-G4   | 401     |
|                   | 3            |     | 46737            | 128      | B4-U0-G5   | 48521            | 133      | B4-U0-G5   | 48452            | 132      | B4-U0-G5   |         |
|                   | 4            |     | 46006            | 126      | B4-U0-G5   | 48275            | 132      | B4-U0-G5   | 48005            | 131      | B4-U0-G5   |         |
|                   | 5W           |     | 45478            | 124      | B5-U0-G4   | 47214            | 129      | B5-U0-G4   | 47147            | 129      | B5-U0-G4   |         |
|                   | FT           |     | 46723            | 128      | B4-U0-G5   | 48507            | 133      | B4-U0-G5   | 48438            | 132      | B4-U0-G5   |         |
|                   | FTA          |     | 45187            | 123      | B5-U0-G4   | 46912            | 128      | B5-U0-G4   | 46845            | 128      | B5-U0-G4   |         |
|                   | AM           |     | 4662             | 127      | B4-U0-G3   | 48402            | 132      | B4-U0-G3   | 48333            | 132      | B4-U0-G3   |         |
|                   | LC/RC        |     | 48811            | 133      | B4-U0-G5   | 48811            | 133      | B4-U0-G5   | 47728            | 130      | B4-U0-G5   |         |
| 55L               | 2            | 70  | 50179            | 115      | B5-U0-G4   | 52095            | 119      | B5-U0-G4   | 52021            | 119      | B5-U0-G4   | 438     |
|                   | 3            |     | 51963            | 119      | B4-U0-G5   | 53947            | 123      | B4-U0-G5   | 53870            | 123      | B4-U0-G5   |         |
|                   | 4            |     | 51635            | 119      | B4-U0-G5   | 54181            | 125      | B4-U0-G5   | 53878            | 124      | B4-U0-G5   |         |
|                   | 5W           |     | 50563            | 115      | B5-U0-G4   | 52493            | 120      | B5-U0-G4   | 52418            | 120      | B5-U0-G4   |         |
|                   | FT           |     | 50539            | 115      | B4-U0-G5   | 52468            | 120      | B4-U0-G5   | 52394            | 120      | B4-U0-G5   |         |
|                   | FTA          |     | 50239            | 115      | B5-U0-G4   | 52157            | 119      | B5-U0-G4   | 52082            | 119      | B5-U0-G4   |         |
|                   | AM           |     | 52223            | 119      | B4-U0-G3   | 54216            | 124      | B4-U0-G3   | 54139            | 124      | B4-U0-G3   |         |
|                   | LC/RC        |     | 54113            | 124      | B4-U0-G5   | 54113            | 124      | B4-U0-G5   | 52912            | 121      | B4-U0-G5   |         |

\*LEDs are frequently updated therefore values are nominal.



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SPEC.1020.B.0422

# Mirada Medium Outdoor LED Area Light

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Type: \_\_\_\_\_

## PERFORMANCE (CONT.)

| ELECTRICAL DATA (AMPS)* |      |      |      |      |      |      |
|-------------------------|------|------|------|------|------|------|
| Lumens                  | 120V | 208V | 240V | 277V | 347V | 480V |
| 9L                      | 0.52 | 0.30 | 0.26 | 0.22 | 0.18 | 0.13 |
| 12L                     | 0.71 | 0.41 | 0.35 | 0.31 | 0.24 | 0.18 |
| 18L                     | 1.13 | 0.65 | 0.56 | 0.49 | 0.39 | 0.28 |
| 24L                     | 1.33 | 0.77 | 0.67 | 0.58 | 0.46 | 0.33 |
| 30L                     | 1.78 | 1.02 | 0.89 | 0.77 | 0.61 | 0.44 |
| 36L                     | 2.12 | 1.22 | 1.06 | 0.92 | 0.73 | 0.53 |
| 42L                     | 2.62 | 1.51 | 1.31 | 1.13 | 0.90 | 0.65 |
| 48L                     | 3.05 | 1.76 | 1.53 | 1.32 | 1.05 | 0.76 |
| 55L                     | 3.65 | 2.11 | 1.83 | 1.58 | 1.26 | 0.91 |

| RECOMMENDED LUMEN MAINTENANCE <sup>1</sup> (0-25°C) |                      |                  |                   |                   |                    |
|---|----------------------|------------------|-------------------|-------------------|--------------------|
| Ambient   | Initial <sup>2</sup> | 25h <sup>2</sup> | 50hr <sup>2</sup> | 75hr <sup>2</sup> | 100hr <sup>2</sup> |
| 9L - 18L  | 100%                 | 97%              | 93%               | 90%               | 86%                |
| 24L - 48L   | 100%                 | 95%              | 89%               | 84%               | 79%                |
| 55L   | 100%                 | 91%              | 82%               | 74%               | 67%                |

| RECOMMENDED LUMEN MAINTENANCE <sup>1</sup> (40°C) |                      |                  |                   |                   |                    |
|---|----------------------|------------------|-------------------|-------------------|--------------------|
| Ambient   | Initial <sup>2</sup> | 25h <sup>2</sup> | 50hr <sup>2</sup> | 75hr <sup>2</sup> | 100hr <sup>2</sup> |
| 9L - 18L  | 100%                 | 97%              | 92%               | 88%               | 84%                |
| 24L - 48L   | 100%                 | 94%              | 87%               | 80%               | 74%                |

| RECOMMENDED LUMEN MAINTENANCE <sup>1</sup> (50°C) |                      |                  |                   |                   |                    |
|---|----------------------|------------------|-------------------|-------------------|--------------------|
| Ambient   | Initial <sup>2</sup> | 25h <sup>2</sup> | 50hr <sup>2</sup> | 75hr <sup>2</sup> | 100hr <sup>2</sup> |
| 9L - 18L C  | 100%                 | 96%              | 91%               | 87%               | 85%                |

\*Electrical data at 25°C (77°F). Actual wattage may differ by +/-10%

1. Lumen maintenance values at 25C are calculated per TM-21 based on LM-80 data and in-situ testing.
2. In accordance with IESNA TM-21-11, Projected Values represent interpolated value based on time durations that are within six times the IESNA LM-80-08 total test duration for the device under testing.
3. In accordance with IESNA TM-21-11, Calculated Values represent time durations that exceed six times the IESNA LM-80-08 total test duration for the device under testing.

| DELIVERED LUMENS* |              |                                       |          |            |         |
|-------------------|--------------|---------------------------------------|----------|------------|---------|
| Lumen Package     | Distribution | Phosphor Converted Amber (Peak 610mm) |          |            | Wattage |
|                   |              | Delivered Lumens                      | Efficacy | BUG Rating |         |
| 9L                | 2            | 5848                                  | 80       | B2-U0-G2   | 74      |
|                   | 3            | 6018                                  | 82       | B1-U0-G2   |         |
|                   | 5W           | 5471                                  | 74       | B3-U0-G1   |         |
|                   | FT           | 5801                                  | 79       | B1-U0-G2   |         |
|                   | FTA          | 5924                                  | 81       | B1-U0-G1   |         |
|                   | AM           | 5995                                  | 81       | B1-U0-G1   |         |
| 12L               | 2            | 7530                                  | 74       | B2-U0-G2   | 102     |
|                   | 3            | 7749                                  | 76       | B1-U0-G2   |         |
|                   | 5W           | 7045                                  | 69       | B3-U0-G2   |         |
|                   | FT           | 7470                                  | 73       | B2-U0-G2   |         |
|                   | FTA          | 7628                                  | 75       | B2-U0-G2   |         |
|                   | AM           | 7720                                  | 76       | B1-U0-G1   |         |
| 18L               | 2            | 9311                                  | 69       | B2-U0-G2   | 135     |
|                   | 3            | 9582                                  | 71       | B2-U0-G2   |         |
|                   | 5W           | 8712                                  | 65       | B3-U0-G2   |         |
|                   | FT           | 9237                                  | 68       | B2-U0-G2   |         |
|                   | FTA          | 9433                                  | 70       | B2-U0-G2   |         |
|                   | AM           | 9546                                  | 71       | B2-U0-G1   |         |
| 24L               | 2            | 10955                                 | 63       | B2-U0-G2   | 175     |
|                   | 3            | 11273                                 | 64       | B2-U0-G2   |         |
|                   | 5W           | 10249                                 | 59       | B3-U0-G2   |         |
|                   | FT           | 10867                                 | 62       | B2-U0-G2   |         |
|                   | FTA          | 11097                                 | 63       | B2-U0-G2   |         |
|                   | AM           | 11230                                 | 64       | B2-U0-G1   |         |

| ELECTRICAL DATA - PHOSPHOR CONVERTED AMBER (AMPS)* |      |      |      |      |      |
|--|------|------|------|------|------|
| Lumens   | 120V | 208V | 240V | 277V | 347V |
| 9L   | 0.62 | 0.36 | 0.31 | 0.27 | 0.21 |
| 12L  | 0.85 | 0.50 | 0.43 | 0.38 | 0.30 |
| 18L  | 1.13 | 0.65 | 0.56 | 0.49 | 0.39 |
| 24L  | 1.47 | 0.85 | 0.73 | 0.64 | 0.51 |

\*LEDs are frequently updated therefore values are nominal.



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SPEC.1020.B.0422

# Mirada Medium Outdoor LED Area Light

Type: \_\_\_\_\_



## PHOTOMETRICS

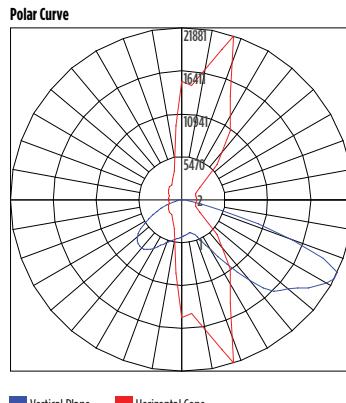
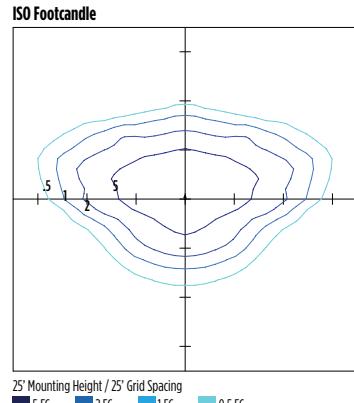
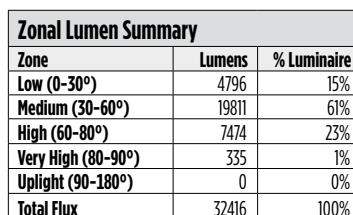
[Back to Quick Links](#)

Luminaire photometry has been conducted by a NVLAP accredited testing laboratory in accordance with IESNA LM-79-08. As specified by IESNA LM-79-08 the entire luminaire is tested as the source resulting in a luminaire efficiency of 100%.

See the individual product page on <https://www.lsicorp.com/> for detailed photometric data.

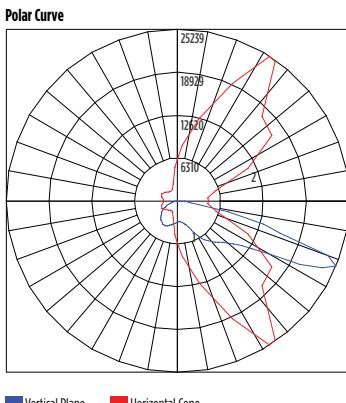
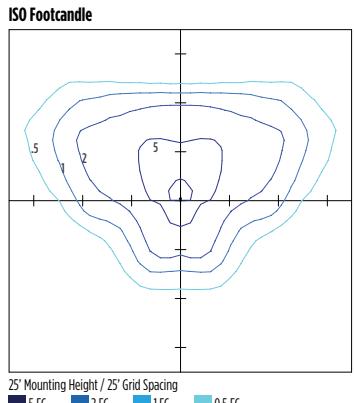
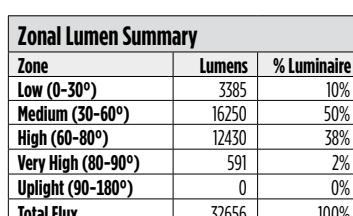
**MRM-LED-30L-SIL-2-40-70CRI**

| <b>Luminaire Data</b>      |                     |
|----------------------------|---------------------|
| <b>Type 2 Distribution</b> |                     |
| <b>Description</b>         | 4000 Kelvin, 70 CRI |
| <b>Delivered Lumens</b>    | 32,416              |
| <b>Watts</b>               | 232                 |
| <b>Efficacy</b>            | 140                 |
| <b>IES Type</b>            | Type II - Short     |
| <b>BUG Rating</b>          | B4-U0-G3            |



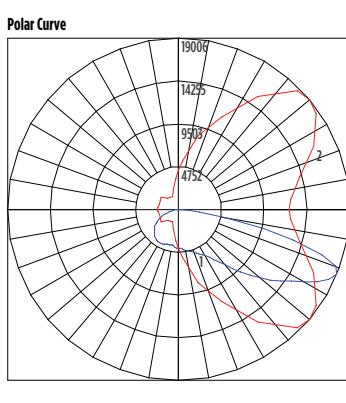
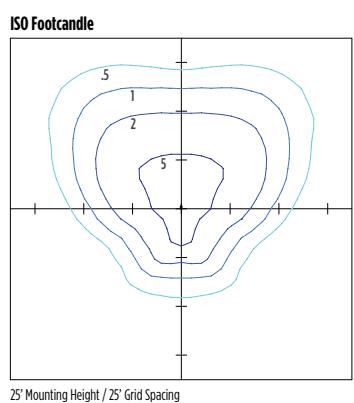
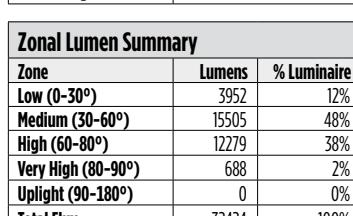
MRM-LED-30L-SIL-3-40-70CRI

| <b>Luminaire Data</b>      |                     |
|----------------------------|---------------------|
| <b>Type 3 Distribution</b> |                     |
| <b>Description</b>         | 4000 Kelvin, 70 CRI |
| <b>Delivered Lumens</b>    | 32,656              |
| <b>Watts</b>               | 232                 |
| <b>Efficacy</b>            | 141                 |
| <b>IES Type</b>            | Type III - Short    |
| <b>RJIC Rating</b>         | R3-110-64           |



MRM-1 ED-301-SII-ET-40-70CB

| <b>Luminaire Data</b>       |                     |
|-----------------------------|---------------------|
| <b>Type FT Distribution</b> |                     |
| <b>Description</b>          | 4000 Kelvin, 70 CRI |
| <b>Delivered Lumens</b>     | 32,424              |
| <b>Watts</b>                | 232                 |
| <b>Efficacy</b>             | 140                 |
| <b>IES Type</b>             | Type IV - Short     |
| <b>RHS Rating</b>           | R7, U2, G4          |



# Mirada Medium Outdoor LED Area Light

Type: \_\_\_\_\_

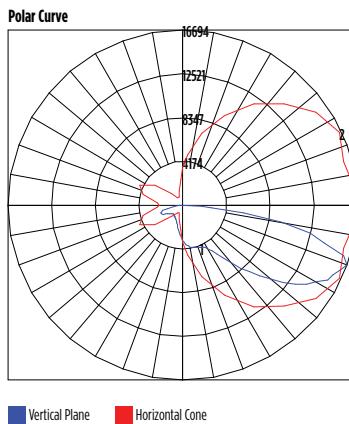
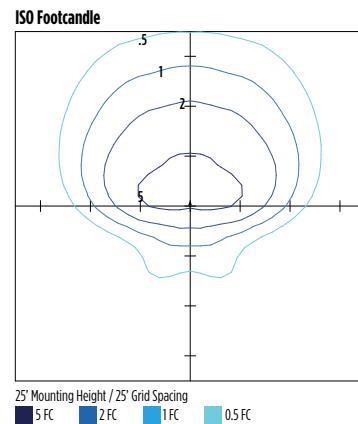
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## PHOTOMETRICS (CONT)

### MRM-LED-30L-SIL-4-40-70CRI

| Luminaire Data      |                      |
|---------------------|----------------------|
| Type 4 Distribution |                      |
| Description         | 4000 Kelvin, 70 CRI  |
| Delivered Lumens    | 32,141               |
| Watts               | 213                  |
| Efficacy            | 151                  |
| IES Type            | Type IV - Very Short |
| BUG Rating          | B3-U0-G5             |

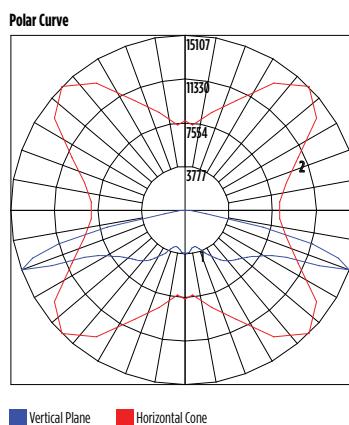
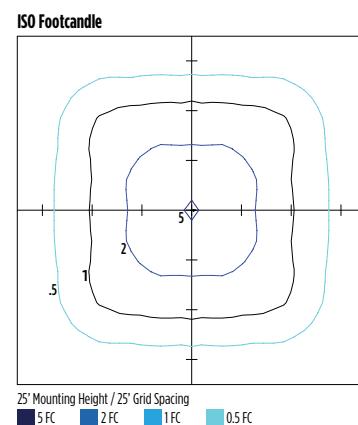
| Zonal Lumen Summary |        |             |
|---------------------|--------|-------------|
| Zone                | Lumens | % Luminaire |
| Low (0-30°)         | 3119   | 10%         |
| Medium (30-60°)     | 13569  | 42%         |
| High (60-80°)       | 13649  | 42%         |
| Very High (80-90°)  | 1804   | 6%          |
| Uplight (90-180°)   | 0      | 0%          |
| Total Flux          | 32141  | 100%        |



### MRM-LED-30L-SIL-5W-40-70CRI

| Luminaire Data       |                     |
|----------------------|---------------------|
| Type 5W Distribution |                     |
| Description          | 4000 Kelvin, 70 CRI |
| Delivered Lumens     | 31,267              |
| Watts                | 232                 |
| Efficacy             | 135                 |
| IES Type             | Type VS - Short     |
| BUG Rating           | B5-U0-G3            |

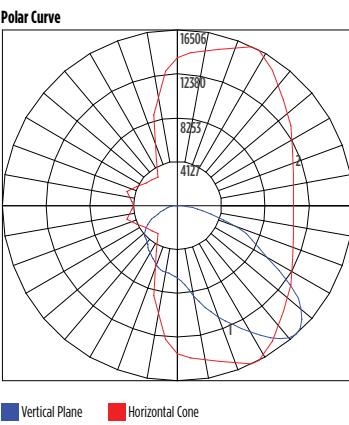
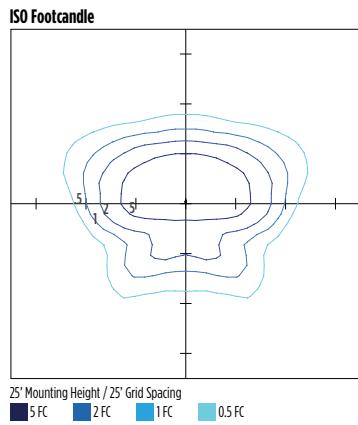
| Zonal Lumen Summary |        |             |
|---------------------|--------|-------------|
| Zone                | Lumens | % Luminaire |
| Low (0-30°)         | 3138   | 10%         |
| Medium (30-60°)     | 13193  | 42%         |
| High (60-80°)       | 14641  | 47%         |
| Very High (80-90°)  | 296    | 1%          |
| Uplight (90-180°)   | 0      | 0%          |
| Total Flux          | 31267  | 100%        |



### MRM-LED-30L-SIL-FTA-40-70CRI

| Luminaire Data        |                     |
|-----------------------|---------------------|
| Type FTA Distribution |                     |
| Description           | 4000 Kelvin, 70 CRI |
| Delivered Lumens      | 32,566              |
| Watts                 | 232                 |
| Efficacy              | 140                 |
| IES Type              | Type VS - Short     |
| BUG Rating            | B4-U0-G3            |

| Zonal Lumen Summary |        |             |
|---------------------|--------|-------------|
| Zone                | Lumens | % Luminaire |
| Low (0-30°)         | 6986   | 21%         |
| Medium (30-60°)     | 19172  | 59%         |
| High (60-80°)       | 5875   | 18%         |
| Very High (80-90°)  | 534    | 2%          |
| Uplight (90-180°)   | 0      | 0%          |
| Total Flux          | 32566  | 100%        |



# Mirada Medium Outdoor LED Area Light

Type: \_\_\_\_\_

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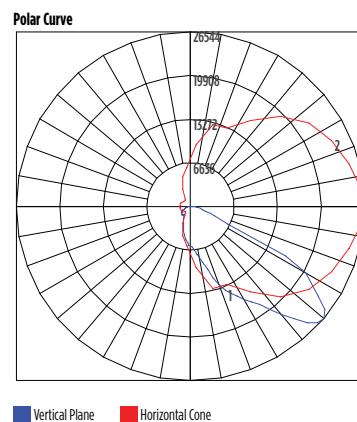
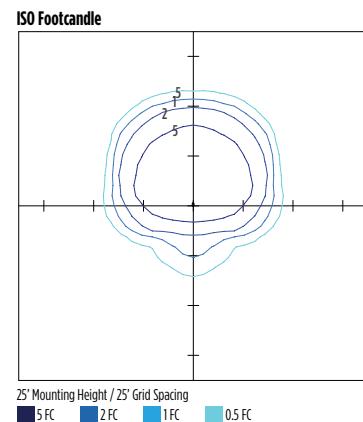
## PHOTOMETRICS (CONT)

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### MRM-LED-30L-SIL-AM-40-70CRI

| Luminaire Data       |                       |
|----------------------|-----------------------|
| Type AM Distribution |                       |
| Description          | 4000 Kelvin, 70 CRI   |
| Delivered Lumens     | 32,960                |
| Watts                | 232                   |
| Efficacy             | 142                   |
| IES Type             | Type III - Very Short |
| BUG Rating           | B3-U0-G3              |

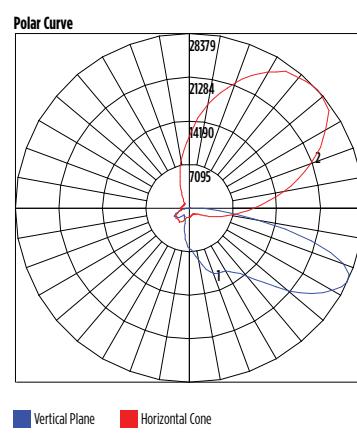
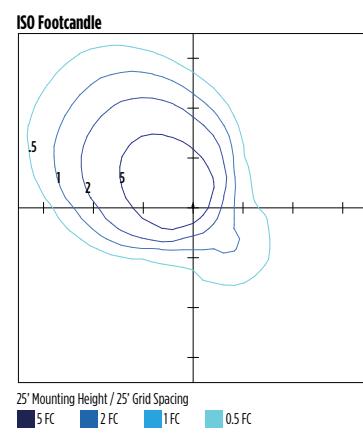
| Zonal Lumen Summary |        |             |
|---------------------|--------|-------------|
| Zone                | Lumens | % Luminaire |
| Low (0-30°)         | 6363   | 19%         |
| Medium (30-60°)     | 22026  | 67%         |
| High (60-80°)       | 4192   | 13%         |
| Very High (80-90°)  | 379    | 1%          |
| Uplight (90-180°)   | 0      | 0%          |
| Total Flux          | 32960  | 100%        |



### MRM-LED-30L-SIL-LC-40-70CRI

| Luminaire Data           |                     |
|--------------------------|---------------------|
| Left Corner Distribution |                     |
| Description              | 4000 Kelvin, 70 CRI |
| Delivered Lumens         | 32,498              |
| Watts                    | 213                 |
| Efficacy                 | 153                 |
| IES Type                 | N/A                 |
| BUG Rating               | B3-U0-G5            |

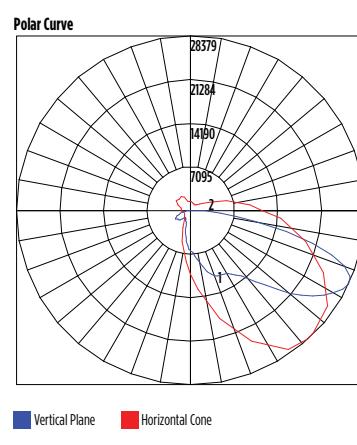
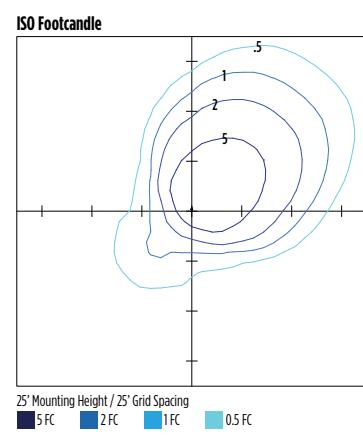
| Zonal Lumen Summary |        |             |
|---------------------|--------|-------------|
| Zone                | Lumens | % Luminaire |
| Low (0-30°)         | 5083   | 16%         |
| Medium (30-60°)     | 14808  | 46%         |
| High (60-80°)       | 11603  | 36%         |
| Very High (80-90°)  | 1005   | 3%          |
| Uplight (90-180°)   | 0      | 0%          |
| Total Flux          | 32498  | 100%        |



### MRM-LED-30L-SIL-RC-40-70CRI

| Luminaire Data            |                     |
|---------------------------|---------------------|
| Right Corner Distribution |                     |
| Description               | 4000 Kelvin, 70 CRI |
| Delivered Lumens          | 32,498              |
| Watts                     | 213                 |
| Efficacy                  | 153                 |
| IES Type                  | N/A                 |
| BUG Rating                | B3-U0-G5            |

| Zonal Lumen Summary |        |             |
|---------------------|--------|-------------|
| Zone                | Lumens | % Luminaire |
| Low (0-30°)         | 5083   | 16%         |
| Medium (30-60°)     | 14808  | 46%         |
| High (60-80°)       | 11603  | 36%         |
| Very High (80-90°)  | 1005   | 3%          |
| Uplight (90-180°)   | 0      | 0%          |
| Total Flux          | 32498  | 100%        |



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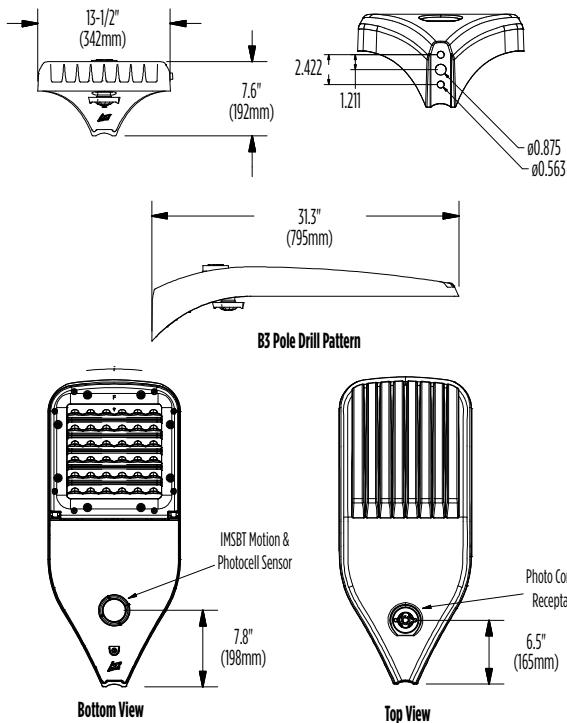
SPEC.1020.B.0422

# Mirada Medium Outdoor LED Area Light

Type: \_\_\_\_\_

 **Have questions?** Call us at (800) 436-7800

## PRODUCT DIMENSIONS



### Luminaire EPA Chart

| Tilt Degree   | 0°  | 15° | 30° | 45° |
|---|-----|-----|-----|-----|
|  <b>Single</b> | 0.5 | 1.0 | 1.5 | 1.9 |
|  <b>D180°</b>  | 1.0 | 1.5 | 1.5 | 1.9 |
|  <b>D90°</b>   | 0.8 | 1.8 | 1.9 | 2.3 |
|  <b>T90°</b>   | 1.0 | 4.0 | 2.5 | 2.8 |
|  <b>TN120°</b> | 1.0 | 2.9 | 3.3 | 3.9 |
|  <b>Q90°</b>   | 1.0 | 4.0 | 2.5 | 2.8 |



# Mirada Medium Outdoor LED Area Light

Type: \_\_\_\_\_

 **Have questions?** Call us at (800) 436-7800

## CONTROLS

### Integral Bluetooth™ Motion and Photocell Sensor (IMSBTxL)

Slim low profile sensor provides multi-level control based on motion and/or daylight. Sensor controls 0-10 VDC LED drivers and is IP66 rated for cold and wet locations (-40°F to 167°F). Two unique PIR lenses are available and used based on fixture mounting height. All control parameters are adjustable via an iOS or Android App capable of storing and transmitting sensor profiles.

[Click here to learn more details about IMSBT](#)



LEVITON App



Apple



Android

### AirLink Blue (ALBCSx)

Wireless Bluetooth Mesh Outdoor Lighting Control System that provides energy savings, code compliance and enhanced safety/security for parking lots and parking garages. Three key components; Bluetooth wireless radio/sensor controller, Time Keeper and an iOS App. Capable of grouping multiple fixtures and sensors as well as scheduling time-based events by zone. Radio/Sensor Controller is factory integrated into Area/Site, Wall Mounted, Parking Garage and Canopy luminaires.

[Click here to learn more details about AirLink Blue](#)



AirLink Blue App



Apple

## Sensor Sequence of Operations

| Standard Programming | On Event | Off Event | On Light Level | Dim Light Level | Daylight Harvesting  | Delay To Off | Sensitivity |
|----------------------|----------|-----------|----------------|-----------------|----------------------|--------------|-------------|
| OMSBTxL/IMSBTxL      | Motion   | No Motion | 100%           | N/A             | On; Auto Calibration | 20 minutes   | High        |
| OMS                  | Motion   | No Motion | N/A            | N/A             | N/A                  | 30 seconds   | Auto        |

| Operation       | Description  |
|-----------------|--|
| On Event        | Trigger that activates lights to turn on; either automatic via motion detected or manually activated via push of button.   |
| Off Event       | Trigger that activates lights to turn off; either automatic via no motion detected or manually activated via push of button.   |
| On Light Level  | The light level that the fixtures will turn on to when ON EVENT occurs.  |
| Dim Light Level | The light level that the fixtures will dim down to when no motion is detected.   |
| Delay to Dim    | The amount of time after which no motion is detected that the fixtures will be triggered to dim down. This sequence is optional, and sensor can be programmed to only trigger the fixture to turn off by entering 100% in this field.  |
| Delay to Off    | The amount of time after which no motion is detected that the fixtures will be triggered to turn off. If delay to dim is part of the programmed functionality, this is the amount of time after which no motion is detected after the fixture have already dimmed down.  |
| Sensitivity     | The sensitivity can be set to high, medium, low, or auto where applicable. High will detect smaller, simple motions. Low will only detect larger more complex motions. Auto temperature calibration adjusts the PIR sensitivity as ambient temperature rises to increase detection of heat movement through the field of view. |



# Mirada Medium (MRM)

## Outdoor LED Area Light



IP66 IK08



| OVERVIEW             |                             |
|----------------------|-----------------------------|
| Lumen Package        | 7,000 - 55,000              |
| Wattage Range        | 48 - 438                    |
| Efficacy Range (LPW) | 115 - 162                   |
| Weight lbs(kg)       | 30 (13.6)                   |
| Control Options      | IMSBT, ALB, ALS, 7-Pin, PCI |

### QUICK LINKS

[Ordering Guide](#)[Performance](#)[Photometrics](#)[Dimensions](#)

## FEATURES & SPECIFICATIONS

### Construction

- Rugged die-cast aluminum housing contains factory prewired driver and optical unit. Cast aluminum wiring access door located underneath.
- Designed to mount to square or round poles.
- Fixtures are finished with LSI's DuraGrip® polyester powder coat finishing process. The DuraGrip finish withstands extreme weather changes without cracking or peeling. Other standard LSI finishes available. Consult factory.
- Shipping weight: 37 lbs in carton.

### Optical System

- State-of-the-Art one piece silicone optic sheet delivers industry leading optical control with an integrated gasket to provide IP66 rated sealed optical chamber in 1 component.
- Proprietary silicone refractor optics provide exceptional coverage and uniformity in IES Types 2, 3, 4, 5W, FT, FTA, AM, and LC/RC.
- Silicone optical material does not yellow or crack with age and provides a typical light transmittance of 93-95%.
- Zero uplight.
- Available in 5000K, 4000K, and 3000K color temperatures per ANSI C78.377. Also Available in Phosphor Converted Amber with Peak intensity at 610nm.
- Minimum CRI of 70.
- Integral louver (IL) and integral half louver (IH) options available for enhanced backlight control.

### Electrical

- High-performance programmable driver features over-voltage, under-voltage, short-circuit and over temperature protection. Custom lumen and wattage packages available.
- 0-10V dimming (10% - 100%) standard.
- Standard Universal Voltage (120-277 Vac) Input 50/60 Hz or optional High Voltage (347-480 Vac).
- L80 Calculated Life: >100k Hours (See Lumen Maintenance chart)
- Total harmonic distortion: <20%
- Operating temperature: -40°C to +50°C (-40°F to +122°F). 42L and 48L lumen packages rated to +40°C. 55L lumen package rate to +35°C.
- Power factor: >.90
- Input power stays constant over life.
- Field replaceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).
- High-efficacy LEDs mounted to metal-core circuit board to maximize heat dissipation
- Components are fully encased in potting material for moisture resistance. Driver complies with FCC standards. Driver and key electronic components can easily be accessed.

### Controls

- Optional integral passive infrared Bluetooth™ motion. Fixtures operate independently and can be commissioned via iOS or Android configuration app
- LSI's AirLink™ wireless control system options reduce energy and maintenance

costs while optimizing light quality 24/7. (see controls section for more details).

### Installation

- Designed to mount to square or round poles.
- A single fastener secures the hinged door, underneath the housing and provides quick & easy access to the electrical compartment.
- Included terminal block accepts up to 12 ga. wire.
- Utilizes LSI's traditional 3" drill pattern B3 for easy fastening of LSI products.

### Warranty

- LSI LED Fixtures carry a 5-year warranty.

### Listings

- Listed to UL 1598 and UL 8750.
- Meets Buy American Act requirements.
- IDA compliant; with 3000K color temperature selection.
- Title 24 Compliant; see local ordinance for qualification information.
- RoHS compliant
- Suitable for wet Locations.
- IP66 rated Luminaire per IEC 60598.
- 3G rated for ANSI C136.31 high vibration applications are qualified.
- DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at [www.designlights.org/QPL](http://www.designlights.org/QPL) to confirm which versions are qualified.
- Patented Silicone Optics (US Patent NO. 10,816,165 B2)
- IK08 rated luminaire per IEC 66262 mechanical impact code



# Mirada Medium Outdoor LED Area Light

 **Have questions?** Call us at (800) 436-7800

Type : \_\_\_\_\_

## ORDERING GUIDE

[Back to Quick Links](#)

**TYPICAL ORDER EXAMPLE: MRM LED 36L SIL FTA UNV DIM 50 70CRI ALSCS04 BRZ IL**

| Prefix                         | Light Source | Lumen Package   | Lens           | Distribution   | Orientation <sup>2</sup>  | Voltage  | Driver                      |
|--------------------------------|--------------|---|----------------|--|---|--|-----------------------------|
| MRM - Mirada Medium Area Light | LED          | 7L - 7,000 lms, 48W<br>9L - 9,000 lms, 62W<br>12L - 12,000 lms, 85W<br>18L - 18,000 lms, 135W<br>24L - 24,000 lms, 176W<br>30L - 30,000 lms, 232W<br>36L - 36,000 lms, 288W<br>42L - 42,000 lms, 314W<br>48L - 48,000 lms, 401W<br>55L - 55,000 lms, 438W<br>Custom Lumen Packages <sup>1</sup> | SIL - Silicone | 2 - Type 2<br>3 - Type 3<br>4 - Type 4<br>5W - Type 5 Wide<br>FT - Forward Throw<br>FTA - Forward Throw Automotive<br>AM - Automotive Merchandise<br>LC - Left Corner<br>RC - Right Corner | (blank) - standard<br>L - Optics rotated left 90°<br>R - Optics rotated right 90° | UNV - Universal Voltage (120-277V)<br>HV - High Voltage (347-480V) | DIM - 0-10V Dimming (0-10%) |

| Color Temp   | Color Rendering | Finish   | Options  |
|--|-----------------|--|--|
| 50 - 5,000 CCT<br>40 - 4,000 CCT<br>30 - 3,000 CCT<br>AMB - Phosphor Converted Amber <sup>12</sup> | 70CRI - 70 CRI  | BLK - Black<br>BRZ - Dark Bronze<br>GMG - Gun Metal Gray<br>GPT - Graphite | MSV - Metallic Silver<br>PLP - Platinum Plus<br>SVG - Satin Verde Green<br>WHT - White<br>(Blank) - None<br>IH - Integral Half Louver (Moderate Spill Light Cutoff) <sup>2</sup><br>IL - Integral Louver (Sharp Spill Light Cutoff) <sup>2</sup> |

### Controls (Choose One)

(Blank) - None

#### Wireless Controls System

ALSC - AirLink Synapse Control System<sup>13</sup>

ALSCS02 - AirLink Synapse Control System with 12-20' Motion Sensor<sup>13</sup>

ALSCS04 - AirLink Synapse Control System with 20-40' Motion Sensor<sup>13</sup>

ALBCS1 - AirLink Blue Wireless Motion & Photo Sensor Controller (8-24' mounting height)<sup>5</sup>

ALBCS2 - AirLink Blue Wireless Motion & Photo Sensor Controller (25-40' mounting height)<sup>5</sup>

#### Stand-Alone Controls

EXT - 0-10v Dimming leads extended to housing exterior

CR7P - 7 Pin Control Receptacle ANSI C136.41<sup>6</sup>

IMSBT1L - Integral Bluetooth™ Motion and Photocell Sensor (8-24' MH)<sup>5</sup>

IMSBT12 - Integral Bluetooth™ Motion and Photocell Sensor (25-40' MH)<sup>5</sup>

#### Button Type Photocells

PC1120 - 120V

PC1208-277 - 208 -277V

PC1347 - 347V



**Need more information?**

Click here for our glossary

**Have additional questions?**

Call us at (800) 436-7800



## ACCESSORY ORDERING INFORMATION<sup>7</sup>

| CONTROLS ACCESSORIES   |                |
|--|----------------|
| Description  | Order Number   |
| PC120 Photocell for use with CR7P option (120V) <sup>8</sup>                 | <b>122514</b>  |
| PC208-277 Photocell for use with CR7P option (208V, 240V, 277V) <sup>8</sup> | <b>122515</b>  |
| Twist Lock Photocell (347V) for use with CR7P <sup>8</sup>                   | <b>122516</b>  |
| Twist Lock Photocell (480V) for use with CR7P <sup>8</sup>                   | <b>1225180</b> |
| AirLink 5 Pin Twist Lock Controller (120-277V Only) <sup>8</sup>             | <b>661409</b>  |
| AirLink 7 Pin Twist Lock Controller (120-277V Only) <sup>8</sup>             | <b>661410</b>  |
| AirLink 7 Pin Twist Lock Controller (347-480V)                               | <b>679948</b>  |
| Shorting Cap for use with CR7P   | <b>149328</b>  |

| FUSING OPTIONS <sup>11</sup> |  |
|------------------------------|--|
| Single Fusing (120V)         |  |
| Single Fusing (277V)         |  |
| Double Fusing (208, 240V)    |  |
| Double Fusing (480V)         |  |
| Double Fusing (347V)         |  |

[See Fusing Accessory Guide](#)

| SHIELDING OPTIONS |  |
|-------------------|--|
| Mirada Small      |  |
| Mirada Medium     |  |
| Mirada Large      |  |
| Zone Medium       |  |
| Zone Large        |  |
| Slice Medium      |  |

[See Shielding Guide](#)

1. Custom lumen and wattage packages available, consult factory. Values are within industry standard tolerances but not DLC listed.
2. Not available with 5W distribution
3. Consult Factory for availability.
4. Not available in HV.
5. Motion sensors are field configurable via an app that can be downloaded from your smartphone's native app store. See controls section for more details.
6. Control device or shorting cap must be ordered separately. See Accessory Ordering Information.
7. Accessories are shipped separately and field installed.
8. Factory installed CR7P option required. See Options.
9. "CLR" denotes finish. See Finish options.
10. Only available with ALSC/ALSCH control options.
11. Fusing must be located in hand hole of pole. See [Fusing Accessory Guide](#) for compatibility.
12. Only available in 9L, 12L, 18L and 24L Lumen Packages. Consult factory for lead time and availability.
13. Not available with 55L Lumen Package.

# Mirada Medium Outdoor LED Area Light

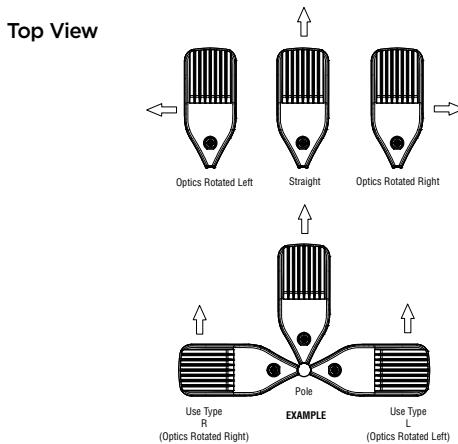
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Type: \_\_\_\_\_

## ACCESSORIES

| MOUNTING ACCESSORIES  |  |   | SHIELDING, POLES & MISC. ACCESSORIES |  |   |
|-----------------------|--|---|--------------------------------------|--|---|
| Side Arm              | <b>Universal Mounting Bracket</b><br>Mounts to ≥ 3" square or round (tapered/straight) poles with (2) mounting hole spaces between 3.5" to 5"<br><br>Part Number: BKA UMB CLR      |    | Shielding                            | <b>Integral Louver</b><br>Field Install Integral Louver provides maximum backlight control by shielding each individual row of LEDs<br><br>Part Number: 690981   |    |
|                       | <b>Quick Mount Plate</b><br>True one person installation to existing/new construction poles with hole spaces between 2.4 to 4.6"<br><br>Part Number: BKS PQM B3B5 XX CLR           |    |                                      | <b>Integral Half Louver</b><br>Field Install Integral Half Louver provides great backlight control without impacting front side distribution.<br><br>Part Number: 743415   |    |
|                       | <b>15° Tilt Quick Mount Plate</b><br>True one person installation to existing/new construction poles with hole spaces between 2.4 to 4.6"<br><br>Part Number: BKS PQ15 B3B5 XX CLR |    |                                      | <b>External Shield</b><br>External shield blocks view of light source from any side of luminaire, additional shielding configurations available<br><br>Part Number: 783607BLK (3") / 776538BLK (6")  |    |
| Tenon / Slipfitter    | <b>Adjustable Slipfitter</b><br>Mounts onto a 2" (51mm) IP, 2.375" (60mm) O.D. tenon and provides 180° of tilt (max 45° above horizontal)<br><br>Part Number: BKA ASF CLR          |    | Poles                                | <b>Square Poles</b><br>14 - 39' steel and aluminum poles in 4", 5" and 6" sizes for retrofit and new construction<br><br>Part Number: 4SQ/5SQ/6SQ  |    |
|                       | <b>Square Tenon Top</b><br>Mounts onto a 2" (51mm) IP, 2.375" (60mm) O.D. tenon and allows for mounting up to 4 luminaires<br><br>Part Number: BKA XNM *                           |    |                                      | <b>Round Poles</b><br>10 - 30' steel and aluminum poles in 4" and 5" sizes for retrofit and new construction<br><br>Part Number: 4RP/5RP   |    |
|                       | <b>Square Internal Slipfitter</b><br>Mounts inside 4" or 5" square pole and allows for mounting up to 4 luminaires<br><br>Part Number: BKA X_ISF * CLR                             |  |                                      | <b>Tapered Poles</b><br>20' - 39' steel and aluminum poles for retrofit and new construction<br><br>Part Number: RTP   |  |
| Wall Mount/ Wood Pole | <b>Wall Mount Bracket</b><br>Mounts onto vertical wall surface (hardware/anchors not included)<br><br>Part Number: BKS XBO WM CLR  |  | Misc.                                | <b>Bird Spikes</b><br>10' Linear Bird Spike Kit, 4' recommended per luminaire, includes silicone adhesive and application tool<br><br>Spike Part Number: 751631<br>Adhesive Part Number: 751632<br>Caulk Gun Part Number: 751636   |  |
|                       | <b>Wood Pole Bracket</b><br>Mounts onto wooden poles (6" minimum OD, hardware/anchors not included)<br><br>Part Number: BKS XBO WP CLR   |  |                                      | Replace CLR with paint finish description<br>Replace X with: 3<br>Replace XX with SQ for square pole or RD for round pole (≥3" OD)<br>Replace * with S (Single), D180 (Double @180°), D90 (Double @90°), T90 (Triple), Q90 (Quad)<br>Replace _ with 4 (4" square pole) or 5 (5" square pole) |   |

## OPTICS ROTATION



## ACCESSORIES/OPTIONS

### Integral Louver (IL) and House-Side Shield (IH)

Integral Louver (IL) and half louver (IH) accessory shields available for improved backlight control without sacrificing street side performance. LSI's Integral Louver (IL) and Integral House-Side Shield (IH) options deliver backlight control that significantly reduces spill light behind the poles for applications with pole locations close to adjacent properties. The design maximizes forward reflected light while reducing glare, maintaining the optical distribution selected, and most importantly eliminating light trespass. Both options rotate

Luminaire Shown with Integral Louver (IL)



Luminaire Shown with IMSBTL Option



### 7 Pin Photoelectric Control

7-pin ANSI C136.41-2013 control receptacle option available for twist lock photocontrols or wireless control modules. Control accessories sold separately. Dimming leads from the receptacle will be connected to the driver dimming leads (Consult factory for alternate wiring).

Luminaire Shown with CR7P



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SPEC.1020.B.0422

# Mirada Medium Outdoor LED Area Light

Type: \_\_\_\_\_

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## PERFORMANCE

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| DELIVERED LUMENS* |              |     |                  |          |            |                  |          |            |                  |          |            |
|-------------------|--------------|-----|------------------|----------|------------|------------------|----------|------------|------------------|----------|------------|
| Lumen Package     | Distribution | CRI | 3000K CCT        |          |            | 4000K CCT        |          |            | 5000K CCT        |          |            |
|                   |              |     | Delivered Lumens | Efficacy | BUG Rating | Delivered Lumens | Efficacy | BUG Rating | Delivered Lumens | Efficacy | BUG Rating |
| 9L                | 2            | 70  | 9853             | 159      | B2-U0-G2   | 9853             | 159      | B2-U0-G2   | 9853             | 159      | B2-U0-G2   |
|                   | 3            |     | 9926             | 160      | B2-U0-G2   | 9926             | 160      | B2-U0-G2   | 9926             | 160      | B2-U0-G2   |
|                   | 4            |     | 9178             | 148      | B2-U0-G3   | 9713             | 157      | B2-U0-G3   | 9498             | 153      | B2-U0-G3   |
|                   | 5W           |     | 9504             | 153      | B3-U0-G2   | 9504             | 153      | B3-U0-G2   | 9504             | 153      | B3-U0-G2   |
|                   | FT           |     | 9856             | 159      | B2-U0-G3   | 9856             | 159      | B2-U0-G3   | 9856             | 159      | B2-U0-G3   |
|                   | FTA          |     | 9900             | 160      | B2-U0-G2   | 9900             | 160      | B2-U0-G2   | 9900             | 160      | B2-U0-G2   |
|                   | AM           |     | 10019            | 162      | B2-U0-G1   | 10019            | 162      | B2-U0-G1   | 10019            | 162      | B2-U0-G1   |
|                   | LC/RC        |     | 9008             | 145      | B2-U0-G3   | 9533             | 154      | B2-U0-G3   | 9321             | 150      | B2-U0-G3   |
| 12L               | 2            | 70  | 13135            | 155      | B3-U0-G2   | 13135            | 155      | B3-U0-G2   | 13135            | 155      | B3-U0-G2   |
|                   | 3            |     | 13232            | 156      | B2-U0-G2   | 13232            | 156      | B2-U0-G2   | 13232            | 156      | B2-U0-G2   |
|                   | 4            |     | 12223            | 144      | B2-U0-G3   | 12935            | 152      | B2-U0-G4   | 12648            | 149      | B2-U0-G4   |
|                   | 5W           |     | 12669            | 149      | B4-U0-G2   | 12669            | 149      | B4-U0-G2   | 12669            | 149      | B4-U0-G2   |
|                   | FT           |     | 13138            | 155      | B2-U0-G3   | 13138            | 155      | B2-U0-G3   | 13138            | 155      | B2-U0-G3   |
|                   | FTA          |     | 13196            | 155      | B2-U0-G2   | 13196            | 155      | B2-U0-G2   | 13196            | 155      | B2-U0-G2   |
|                   | AM           |     | 13355            | 157      | B2-U0-G2   | 13355            | 157      | B2-U0-G2   | 13355            | 157      | B2-U0-G2   |
|                   | LC/RC        |     | 11996            | 141      | B2-U0-G3   | 12695            | 149      | B2-U0-G3   | 12414            | 146      | B2-U0-G3   |
| 18L               | 2            | 70  | 19318            | 143      | B3-U0-G3   | 19318            | 143      | B3-U0-G3   | 19318            | 143      | B3-U0-G3   |
|                   | 3            |     | 19461            | 144      | B3-U0-G3   | 19461            | 144      | B3-U0-G3   | 19461            | 144      | B3-U0-G3   |
|                   | 4            |     | 18013            | 133      | B2-U0-G4   | 19063            | 141      | B3-U0-G5   | 18640            | 138      | B3-U0-G5   |
|                   | 5W           |     | 18633            | 138      | B4-U0-G2   | 18633            | 138      | B4-U0-G2   | 18633            | 138      | B4-U0-G2   |
|                   | FT           |     | 19324            | 143      | B3-U0-G3   | 19324            | 143      | B3-U0-G3   | 19324            | 143      | B3-U0-G3   |
|                   | FTA          |     | 19408            | 144      | B3-U0-G3   | 19408            | 144      | B3-U0-G3   | 19408            | 144      | B3-U0-G3   |
|                   | AM           |     | 19641            | 145      | B3-U0-G2   | 19641            | 145      | B3-U0-G2   | 19641            | 145      | B3-U0-G2   |
|                   | LC/RC        |     | 17679            | 131      | B2-U0-G3   | 18710            | 139      | B2-U0-G3   | 18295            | 136      | B2-U0-G3   |
| 24L               | 2            | 70  | 24142            | 147      | B4-U0-G3   | 25957            | 147      | B4-U0-G3   | 25957            | 147      | B4-U0-G3   |
|                   | 3            |     | 25001            | 149      | B3-U0-G3   | 26149            | 149      | B3-U0-G3   | 26149            | 149      | B3-U0-G3   |
|                   | 4            |     | 24396            | 152      | B3-U0-G5   | 25600            | 160      | B3-U0-G5   | 25457            | 159      | B3-U0-G5   |
|                   | 5W           |     | 24327            | 142      | B5-U0-G3   | 25037            | 142      | B5-U0-G3   | 25037            | 142      | B5-U0-G3   |
|                   | FT           |     | 24994            | 148      | B3-U0-G3   | 25964            | 148      | B3-U0-G3   | 25964            | 148      | B3-U0-G3   |
|                   | FTA          |     | 24171            | 148      | B3-U0-G3   | 26077            | 148      | B4-U0-G3   | 26077            | 148      | B4-U0-G3   |
|                   | AM           |     | 24939            | 150      | B3-U0-G2   | 26393            | 150      | B3-U0-G2   | 26393            | 150      | B3-U0-G2   |
|                   | LC/RC        |     | 25884            | 162      | B3-U0-G4   | 25884            | 162      | B3-U0-G4   | 25310            | 158      | B3-U0-G4   |
| 30L               | 2            | 70  | 30171            | 140      | B4-U0-G3   | 32417            | 140      | B4-U0-G3   | 32417            | 140      | B4-U0-G3   |
|                   | 3            |     | 31243            | 141      | B3-U0-G4   | 32656            | 141      | B3-U0-G4   | 32656            | 141      | B3-U0-G4   |
|                   | 4            |     | 30651            | 144      | B3-U0-G5   | 32141            | 151      | B3-U0-G5   | 31961            | 150      | B3-U0-G5   |
|                   | 5W           |     | 30402            | 135      | B5-U0-G3   | 31267            | 135      | B5-U0-G3   | 31267            | 135      | B5-U0-G3   |
|                   | FT           |     | 31233            | 140      | B4-U0-G4   | 32424            | 140      | B4-U0-G4   | 32424            | 140      | B4-U0-G4   |
|                   | FTA          |     | 30207            | 140      | B4-U0-G4   | 32566            | 140      | B4-U0-G4   | 32566            | 140      | B4-U0-G4   |
|                   | AM           |     | 3116             | 142      | B4-U0-G3   | 32960            | 142      | B4-U0-G3   | 32960            | 142      | B4-U0-G3   |
|                   | LC/RC        |     | 32498            | 153      | B3-U0-G5   | 32498            | 153      | B3-U0-G5   | 31777            | 149      | B3-U0-G5   |

\*LEDs are frequently updated therefore values are nominal.



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SPEC.1020.B.0422

# Mirada Medium Outdoor LED Area Light

Type : \_\_\_\_\_

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## PERFORMANCE (CONT.)

| DELIVERED LUMENS* |              |     |                  |          |            |                  |          |            |                  |          |            |         |
|-------------------|--------------|-----|------------------|----------|------------|------------------|----------|------------|------------------|----------|------------|---------|
| Lumen Package     | Distribution | CRI | 3000K CCT        |          |            | 4000K CCT        |          |            | 5000K CCT        |          |            | Wattage |
|                   |              |     | Delivered Lumens | Efficacy | BUG Rating | Delivered Lumens | Efficacy | BUG Rating | Delivered Lumens | Efficacy | BUG Rating |         |
| 36L               | 2            | 70  | 35357            | 133      | B4-U0-G3   | 38275            | 133      | B4-U0-G3   | 38275            | 133      | B4-U0-G3   | 288     |
|                   | 3            |     | 36614            | 134      | B4-U0-G4   | 38557            | 134      | B4-U0-G4   | 38557            | 134      | B4-U0-G4   |         |
|                   | 4            |     | 35402            | 139      | B3-U0-G5   | 37148            | 146      | B4-U0-G5   | 36940            | 145      | B4-U0-G5   |         |
|                   | 5W           |     | 35627            | 128      | B5-U0-G4   | 36917            | 128      | B5-U0-G4   | 36917            | 128      | B5-U0-G4   |         |
|                   | FT           |     | 36602            | 133      | B4-U0-G4   | 38283            | 133      | B4-U0-G4   | 38283            | 133      | B4-U0-G4   |         |
|                   | FTA          |     | 35399            | 134      | B4-U0-G4   | 38450            | 134      | B4-U0-G4   | 38450            | 134      | B4-U0-G4   |         |
|                   | AM           |     | 36524            | 135      | B4-U0-G3   | 38916            | 135      | B4-U0-G3   | 38916            | 135      | B4-U0-G3   |         |
|                   | LC/RC        |     | 37561            | 147      | B3-U0-G5   | 37561            | 147      | B3-U0-G5   | 36727            | 144      | B3-U0-G5   |         |
|                   | 2            |     | 41035            | 131      | B5-U0-G4   | 42602            | 136      | B5-U0-G4   | 42542            | 135      | B5-U0-G4   | 314     |
| 42L               | 3            | 70  | 42493            | 135      | B4-U0-G5   | 44115            | 140      | B4-U0-G5   | 44053            | 140      | B4-U0-G5   |         |
|                   | 4            |     | 41453            | 132      | B4-U0-G5   | 43497            | 138      | B4-U0-G5   | 43254            | 138      | B4-U0-G5   |         |
|                   | 5W           |     | 41349            | 132      | B5-U0-G4   | 42927            | 134      | B5-U0-G4   | 42866            | 137      | B5-U0-G4   |         |
|                   | FT           |     | 42481            | 135      | B4-U0-G4   | 44103            | 140      | B4-U0-G4   | 44040            | 140      | B4-U0-G4   |         |
|                   | FTA          |     | 41083            | 131      | B4-U0-G4   | 42652            | 136      | B5-U0-G4   | 42591            | 136      | B5-U0-G4   |         |
|                   | AM           |     | 42389            | 135      | B4-U0-G3   | 44007            | 140      | B4-U0-G3   | 43944            | 140      | B4-U0-G3   |         |
|                   | LC/RC        |     | 43980            | 140      | B3-U0-G5   | 43980            | 140      | B3-U0-G5   | 43004            | 137      | B3-U0-G5   |         |
|                   | 2            | 70  | 45133            | 123      | B5-U0-G4   | 46856            | 128      | B5-U0-G4   | 46789            | 128      | B5-U0-G4   | 401     |
|                   | 3            |     | 46737            | 128      | B4-U0-G5   | 48521            | 133      | B4-U0-G5   | 48452            | 132      | B4-U0-G5   |         |
|                   | 4            |     | 46006            | 126      | B4-U0-G5   | 48275            | 132      | B4-U0-G5   | 48005            | 131      | B4-U0-G5   |         |
|                   | 5W           |     | 45478            | 124      | B5-U0-G4   | 47214            | 129      | B5-U0-G4   | 47147            | 129      | B5-U0-G4   |         |
|                   | FT           |     | 46723            | 128      | B4-U0-G5   | 48507            | 133      | B4-U0-G5   | 48438            | 132      | B4-U0-G5   |         |
|                   | FTA          |     | 45187            | 123      | B5-U0-G4   | 46912            | 128      | B5-U0-G4   | 46845            | 128      | B5-U0-G4   |         |
|                   | AM           |     | 4662             | 127      | B4-U0-G3   | 48402            | 132      | B4-U0-G3   | 48333            | 132      | B4-U0-G3   |         |
|                   | LC/RC        |     | 48811            | 133      | B4-U0-G5   | 48811            | 133      | B4-U0-G5   | 47728            | 130      | B4-U0-G5   |         |
| 55L               | 2            | 70  | 50179            | 115      | B5-U0-G4   | 52095            | 119      | B5-U0-G4   | 52021            | 119      | B5-U0-G4   | 438     |
|                   | 3            |     | 51963            | 119      | B4-U0-G5   | 53947            | 123      | B4-U0-G5   | 53870            | 123      | B4-U0-G5   |         |
|                   | 4            |     | 51635            | 119      | B4-U0-G5   | 54181            | 125      | B4-U0-G5   | 53878            | 124      | B4-U0-G5   |         |
|                   | 5W           |     | 50563            | 115      | B5-U0-G4   | 52493            | 120      | B5-U0-G4   | 52418            | 120      | B5-U0-G4   |         |
|                   | FT           |     | 50539            | 115      | B4-U0-G5   | 52468            | 120      | B4-U0-G5   | 52394            | 120      | B4-U0-G5   |         |
|                   | FTA          |     | 50239            | 115      | B5-U0-G4   | 52157            | 119      | B5-U0-G4   | 52082            | 119      | B5-U0-G4   |         |
|                   | AM           |     | 52223            | 119      | B4-U0-G3   | 54216            | 124      | B4-U0-G3   | 54139            | 124      | B4-U0-G3   |         |
|                   | LC/RC        |     | 54113            | 124      | B4-U0-G5   | 54113            | 124      | B4-U0-G5   | 52912            | 121      | B4-U0-G5   |         |

\*LEDs are frequently updated therefore values are nominal.



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SPEC.1020.B.0422

# Mirada Medium Outdoor LED Area Light

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Type: \_\_\_\_\_

## PERFORMANCE (CONT.)

| ELECTRICAL DATA (AMPS)* |      |      |      |      |      |      |
|-------------------------|------|------|------|------|------|------|
| Lumens                  | 120V | 208V | 240V | 277V | 347V | 480V |
| 9L                      | 0.52 | 0.30 | 0.26 | 0.22 | 0.18 | 0.13 |
| 12L                     | 0.71 | 0.41 | 0.35 | 0.31 | 0.24 | 0.18 |
| 18L                     | 1.13 | 0.65 | 0.56 | 0.49 | 0.39 | 0.28 |
| 24L                     | 1.33 | 0.77 | 0.67 | 0.58 | 0.46 | 0.33 |
| 30L                     | 1.78 | 1.02 | 0.89 | 0.77 | 0.61 | 0.44 |
| 36L                     | 2.12 | 1.22 | 1.06 | 0.92 | 0.73 | 0.53 |
| 42L                     | 2.62 | 1.51 | 1.31 | 1.13 | 0.90 | 0.65 |
| 48L                     | 3.05 | 1.76 | 1.53 | 1.32 | 1.05 | 0.76 |
| 55L                     | 3.65 | 2.11 | 1.83 | 1.58 | 1.26 | 0.91 |

| RECOMMENDED LUMEN MAINTENANCE <sup>1</sup> (0-25°C) |                      |                  |                   |                   |                    |
|---|----------------------|------------------|-------------------|-------------------|--------------------|
| Ambient   | Initial <sup>2</sup> | 25h <sup>2</sup> | 50hr <sup>2</sup> | 75hr <sup>2</sup> | 100hr <sup>2</sup> |
| 9L - 18L  | 100%                 | 97%              | 93%               | 90%               | 86%                |
| 24L - 48L   | 100%                 | 95%              | 89%               | 84%               | 79%                |
| 55L   | 100%                 | 91%              | 82%               | 74%               | 67%                |

| RECOMMENDED LUMEN MAINTENANCE <sup>1</sup> (40°C) |                      |                  |                   |                   |                    |
|---|----------------------|------------------|-------------------|-------------------|--------------------|
| Ambient   | Initial <sup>2</sup> | 25h <sup>2</sup> | 50hr <sup>2</sup> | 75hr <sup>2</sup> | 100hr <sup>2</sup> |
| 9L - 18L  | 100%                 | 97%              | 92%               | 88%               | 84%                |
| 24L - 48L   | 100%                 | 94%              | 87%               | 80%               | 74%                |

| RECOMMENDED LUMEN MAINTENANCE <sup>1</sup> (50°C) |                      |                  |                   |                   |                    |
|---|----------------------|------------------|-------------------|-------------------|--------------------|
| Ambient   | Initial <sup>2</sup> | 25h <sup>2</sup> | 50hr <sup>2</sup> | 75hr <sup>2</sup> | 100hr <sup>2</sup> |
| 9L - 18L C  | 100%                 | 96%              | 91%               | 87%               | 85%                |

\*Electrical data at 25°C (77°F). Actual wattage may differ by +/-10%

1. Lumen maintenance values at 25C are calculated per TM-21 based on LM-80 data and in-situ testing.
2. In accordance with IESNA TM-21-11, Projected Values represent interpolated value based on time durations that are within six times the IESNA LM-80-08 total test duration for the device under testing.
3. In accordance with IESNA TM-21-11, Calculated Values represent time durations that exceed six times the IESNA LM-80-08 total test duration for the device under testing.

| DELIVERED LUMENS* |              |                                       |          |            |         |
|-------------------|--------------|---------------------------------------|----------|------------|---------|
| Lumen Package     | Distribution | Phosphor Converted Amber (Peak 610mm) |          |            | Wattage |
|                   |              | Delivered Lumens                      | Efficacy | BUG Rating |         |
| 9L                | 2            | 5848                                  | 80       | B2-U0-G2   | 74      |
|                   | 3            | 6018                                  | 82       | B1-U0-G2   |         |
|                   | 5W           | 5471                                  | 74       | B3-U0-G1   |         |
|                   | FT           | 5801                                  | 79       | B1-U0-G2   |         |
|                   | FTA          | 5924                                  | 81       | B1-U0-G1   |         |
|                   | AM           | 5995                                  | 81       | B1-U0-G1   |         |
| 12L               | 2            | 7530                                  | 74       | B2-U0-G2   | 102     |
|                   | 3            | 7749                                  | 76       | B1-U0-G2   |         |
|                   | 5W           | 7045                                  | 69       | B3-U0-G2   |         |
|                   | FT           | 7470                                  | 73       | B2-U0-G2   |         |
|                   | FTA          | 7628                                  | 75       | B2-U0-G2   |         |
|                   | AM           | 7720                                  | 76       | B1-U0-G1   |         |
| 18L               | 2            | 9311                                  | 69       | B2-U0-G2   | 135     |
|                   | 3            | 9582                                  | 71       | B2-U0-G2   |         |
|                   | 5W           | 8712                                  | 65       | B3-U0-G2   |         |
|                   | FT           | 9237                                  | 68       | B2-U0-G2   |         |
|                   | FTA          | 9433                                  | 70       | B2-U0-G2   |         |
|                   | AM           | 9546                                  | 71       | B2-U0-G1   |         |
| 24L               | 2            | 10955                                 | 63       | B2-U0-G2   | 175     |
|                   | 3            | 11273                                 | 64       | B2-U0-G2   |         |
|                   | 5W           | 10249                                 | 59       | B3-U0-G2   |         |
|                   | FT           | 10867                                 | 62       | B2-U0-G2   |         |
|                   | FTA          | 11097                                 | 63       | B2-U0-G2   |         |
|                   | AM           | 11230                                 | 64       | B2-U0-G1   |         |

| ELECTRICAL DATA - PHOSPHOR CONVERTED AMBER (AMPS)* |      |      |      |      |      |
|--|------|------|------|------|------|
| Lumens   | 120V | 208V | 240V | 277V | 347V |
| 9L   | 0.62 | 0.36 | 0.31 | 0.27 | 0.21 |
| 12L  | 0.85 | 0.50 | 0.43 | 0.38 | 0.30 |
| 18L  | 1.13 | 0.65 | 0.56 | 0.49 | 0.39 |
| 24L  | 1.47 | 0.85 | 0.73 | 0.64 | 0.51 |

\*LEDs are frequently updated therefore values are nominal.



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# Mirada Medium Outdoor LED Area Light

Type: \_\_\_\_\_



## PHOTOMETRICS

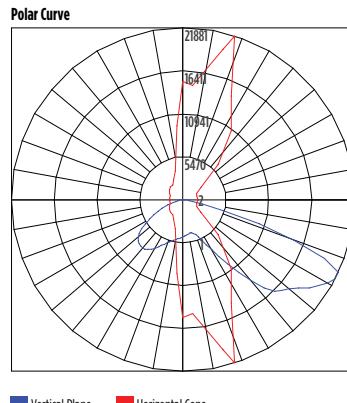
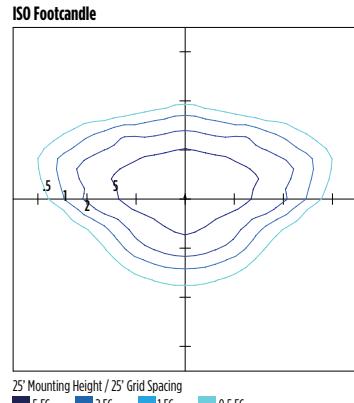
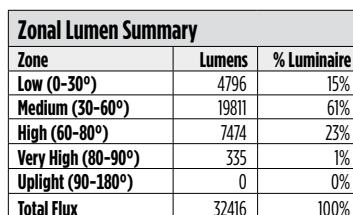
[Back to Quick Links](#)

Luminaire photometry has been conducted by a NVLAP accredited testing laboratory in accordance with IESNA LM-79-08. As specified by IESNA LM-79-08 the entire luminaire is tested as the source resulting in a luminaire efficiency of 100%.

See the individual product page on <https://www.lsicorp.com/> for detailed photometric data.

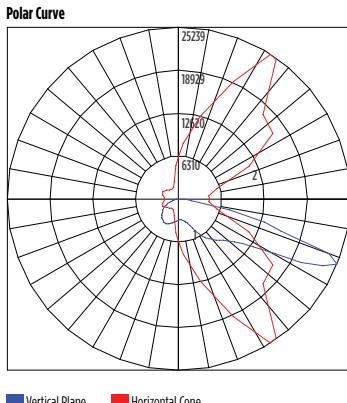
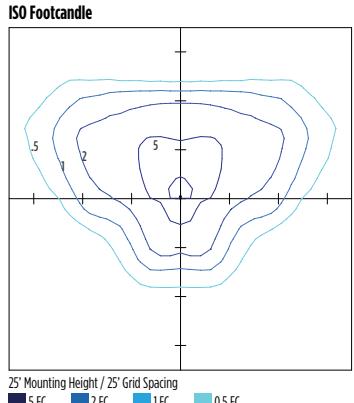
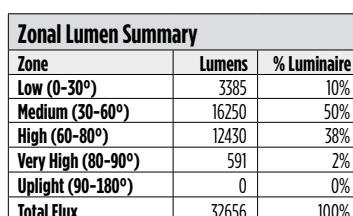
**MRM-LED-30L-SIL-2-40-70CRI**

| <b>Luminaire Data</b>      |                     |
|----------------------------|---------------------|
| <b>Type 2 Distribution</b> |                     |
| <b>Description</b>         | 4000 Kelvin, 70 CRI |
| <b>Delivered Lumens</b>    | 32,416              |
| <b>Watts</b>               | 232                 |
| <b>Efficacy</b>            | 140                 |
| <b>IES Type</b>            | Type II - Short     |
| <b>BUG Rating</b>          | B4-U0-G3            |



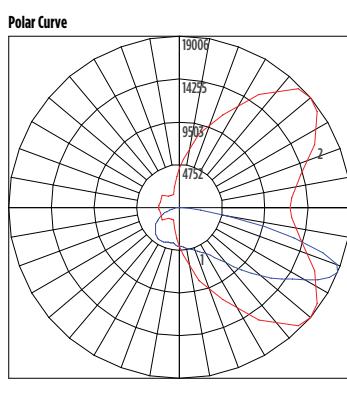
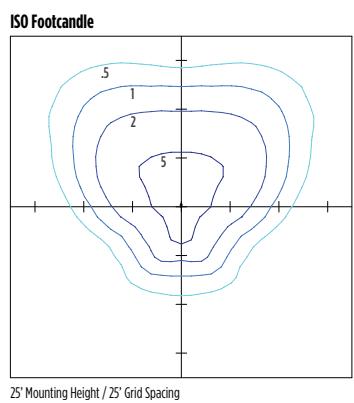
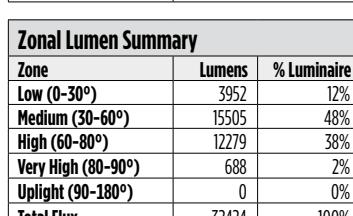
MRM-LED-30L-SIL-3-40-70CRI

| <b>Luminaire Data</b>      |                     |
|----------------------------|---------------------|
| <b>Type 3 Distribution</b> |                     |
| <b>Description</b>         | 4000 Kelvin, 70 CRI |
| <b>Delivered Lumens</b>    | 32,656              |
| <b>Watts</b>               | 232                 |
| <b>Efficacy</b>            | 141                 |
| <b>IES Type</b>            | Type III - Short    |
| <b>BLIIC Rating</b>        | B3-I10-G4           |



MRM-LED-30L-SIL-FT-40-70CR

| Luminaire Data       |                     |
|----------------------|---------------------|
| Type FT Distribution |                     |
| Description          | 4000 Kelvin, 70 CRI |
| Delivered Lumens     | 32,424              |
| Watts                | 232                 |
| Efficacy             | 140                 |
| IES Type             | Type IV - Short     |
| RJIC Rating          | R2, U2, C4          |



# Mirada Medium Outdoor LED Area Light

Type: \_\_\_\_\_

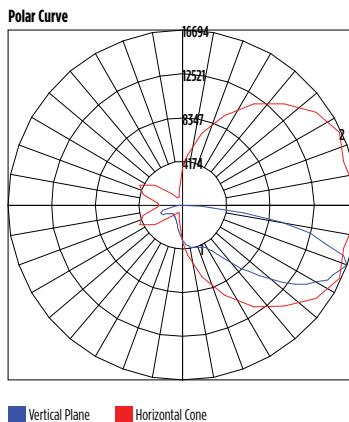
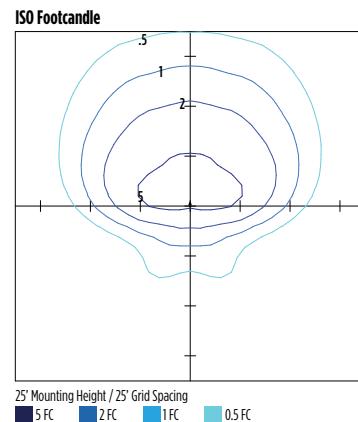
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## PHOTOMETRICS (CONT)

### MRM-LED-30L-SIL-4-40-70CRI

| Luminaire Data      |                      |
|---------------------|----------------------|
| Type 4 Distribution |                      |
| Description         | 4000 Kelvin, 70 CRI  |
| Delivered Lumens    | 32,141               |
| Watts               | 213                  |
| Efficacy            | 151                  |
| IES Type            | Type IV - Very Short |
| BUG Rating          | B3-U0-G5             |

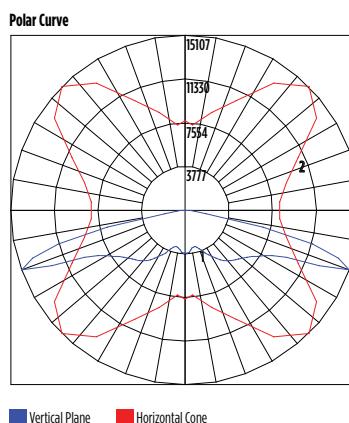
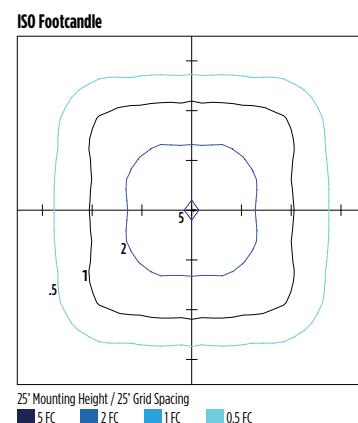
| Zonal Lumen Summary |        |             |
|---------------------|--------|-------------|
| Zone                | Lumens | % Luminaire |
| Low (0-30°)         | 3119   | 10%         |
| Medium (30-60°)     | 13569  | 42%         |
| High (60-80°)       | 13649  | 42%         |
| Very High (80-90°)  | 1804   | 6%          |
| Uplight (90-180°)   | 0      | 0%          |
| Total Flux          | 32141  | 100%        |



### MRM-LED-30L-SIL-5W-40-70CRI

| Luminaire Data       |                     |
|----------------------|---------------------|
| Type 5W Distribution |                     |
| Description          | 4000 Kelvin, 70 CRI |
| Delivered Lumens     | 31,267              |
| Watts                | 232                 |
| Efficacy             | 135                 |
| IES Type             | Type VS - Short     |
| BUG Rating           | B5-U0-G3            |

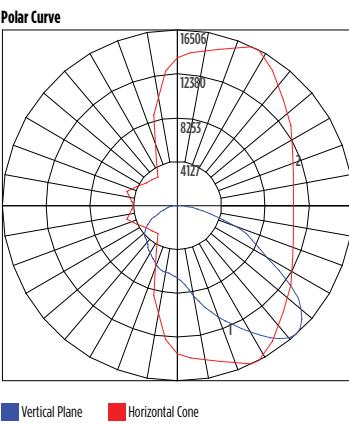
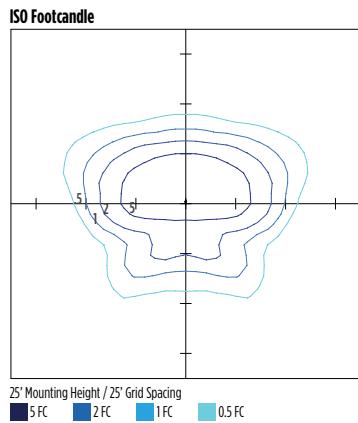
| Zonal Lumen Summary |        |             |
|---------------------|--------|-------------|
| Zone                | Lumens | % Luminaire |
| Low (0-30°)         | 3138   | 10%         |
| Medium (30-60°)     | 13193  | 42%         |
| High (60-80°)       | 14641  | 47%         |
| Very High (80-90°)  | 296    | 1%          |
| Uplight (90-180°)   | 0      | 0%          |
| Total Flux          | 31267  | 100%        |



### MRM-LED-30L-SIL-FTA-40-70CRI

| Luminaire Data        |                     |
|-----------------------|---------------------|
| Type FTA Distribution |                     |
| Description           | 4000 Kelvin, 70 CRI |
| Delivered Lumens      | 32,566              |
| Watts                 | 232                 |
| Efficacy              | 140                 |
| IES Type              | Type VS - Short     |
| BUG Rating            | B4-U0-G3            |

| Zonal Lumen Summary |        |             |
|---------------------|--------|-------------|
| Zone                | Lumens | % Luminaire |
| Low (0-30°)         | 6986   | 21%         |
| Medium (30-60°)     | 19172  | 59%         |
| High (60-80°)       | 5875   | 18%         |
| Very High (80-90°)  | 534    | 2%          |
| Uplight (90-180°)   | 0      | 0%          |
| Total Flux          | 32566  | 100%        |



# Mirada Medium Outdoor LED Area Light

Type: \_\_\_\_\_

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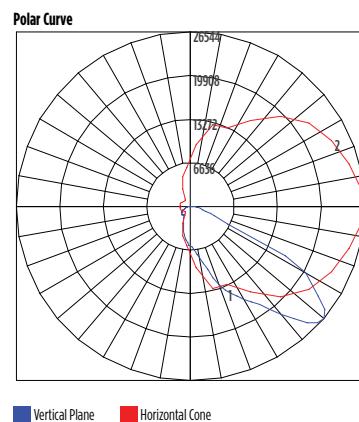
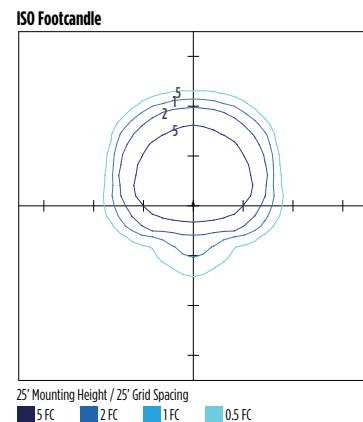
## PHOTOMETRICS (CONT)

[Back to Quick Links](#)

### MRM-LED-30L-SIL-AM-40-70CRI

| Luminaire Data       |                       |
|----------------------|-----------------------|
| Type AM Distribution |                       |
| Description          | 4000 Kelvin, 70 CRI   |
| Delivered Lumens     | 32,960                |
| Watts                | 232                   |
| Efficacy             | 142                   |
| IES Type             | Type III - Very Short |
| BUG Rating           | B3-U0-G3              |

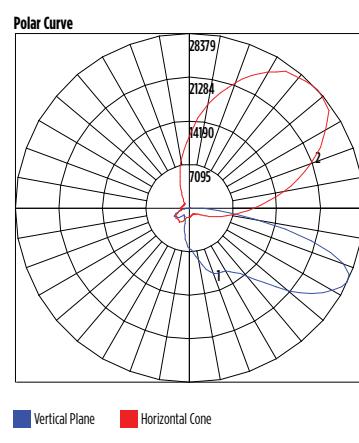
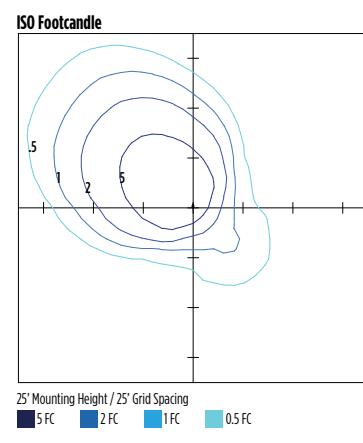
| Zonal Lumen Summary |        |             |
|---------------------|--------|-------------|
| Zone                | Lumens | % Luminaire |
| Low (0-30°)         | 6363   | 19%         |
| Medium (30-60°)     | 22026  | 67%         |
| High (60-80°)       | 4192   | 13%         |
| Very High (80-90°)  | 379    | 1%          |
| Uplight (90-180°)   | 0      | 0%          |
| Total Flux          | 32960  | 100%        |



### MRM-LED-30L-SIL-LC-40-70CRI

| Luminaire Data           |                     |
|--------------------------|---------------------|
| Left Corner Distribution |                     |
| Description              | 4000 Kelvin, 70 CRI |
| Delivered Lumens         | 32,498              |
| Watts                    | 213                 |
| Efficacy                 | 153                 |
| IES Type                 | N/A                 |
| BUG Rating               | B3-U0-G5            |

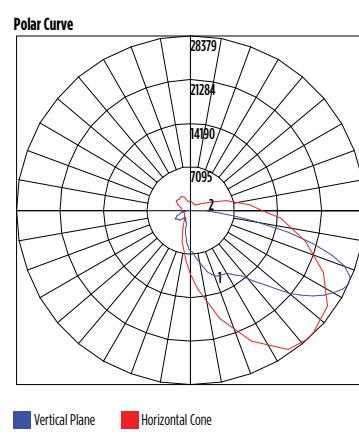
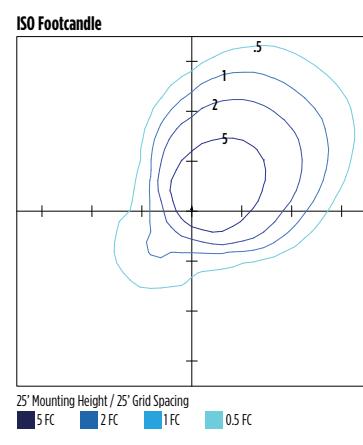
| Zonal Lumen Summary |        |             |
|---------------------|--------|-------------|
| Zone                | Lumens | % Luminaire |
| Low (0-30°)         | 5083   | 16%         |
| Medium (30-60°)     | 14808  | 46%         |
| High (60-80°)       | 11603  | 36%         |
| Very High (80-90°)  | 1005   | 3%          |
| Uplight (90-180°)   | 0      | 0%          |
| Total Flux          | 32498  | 100%        |



### MRM-LED-30L-SIL-RC-40-70CRI

| Luminaire Data            |                     |
|---------------------------|---------------------|
| Right Corner Distribution |                     |
| Description               | 4000 Kelvin, 70 CRI |
| Delivered Lumens          | 32,498              |
| Watts                     | 213                 |
| Efficacy                  | 153                 |
| IES Type                  | N/A                 |
| BUG Rating                | B3-U0-G5            |

| Zonal Lumen Summary |        |             |
|---------------------|--------|-------------|
| Zone                | Lumens | % Luminaire |
| Low (0-30°)         | 5083   | 16%         |
| Medium (30-60°)     | 14808  | 46%         |
| High (60-80°)       | 11603  | 36%         |
| Very High (80-90°)  | 1005   | 3%          |
| Uplight (90-180°)   | 0      | 0%          |
| Total Flux          | 32498  | 100%        |

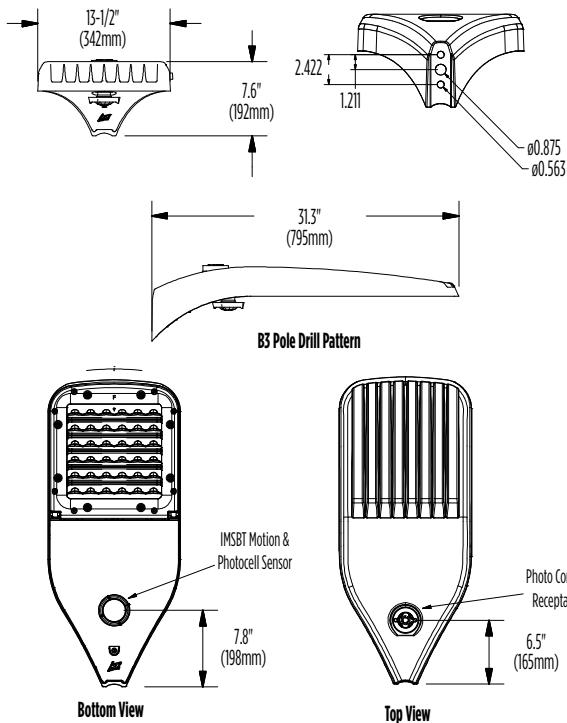


# Mirada Medium Outdoor LED Area Light

Type: \_\_\_\_\_

 **Have questions?** Call us at (800) 436-7800

## PRODUCT DIMENSIONS



### Luminaire EPA Chart

| Tilt Degree   | 0°  | 15° | 30° | 45° |
|---|-----|-----|-----|-----|
|  <b>Single</b> | 0.5 | 1.0 | 1.5 | 1.9 |
|  <b>D180°</b>  | 1.0 | 1.5 | 1.5 | 1.9 |
|  <b>D90°</b>   | 0.8 | 1.8 | 1.9 | 2.3 |
|  <b>T90°</b>   | 1.0 | 4.0 | 2.5 | 2.8 |
|  <b>TN120°</b> | 1.0 | 2.9 | 3.3 | 3.9 |
|  <b>Q90°</b>   | 1.0 | 4.0 | 2.5 | 2.8 |



# Mirada Medium Outdoor LED Area Light

Type: \_\_\_\_\_

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## CONTROLS

### Integral Bluetooth™ Motion and Photocell Sensor (IMSBTxL)

Slim low profile sensor provides multi-level control based on motion and/or daylight. Sensor controls 0-10 VDC LED drivers and is IP66 rated for cold and wet locations (-40°F to 167°F). Two unique PIR lenses are available and used based on fixture mounting height. All control parameters are adjustable via an iOS or Android App capable of storing and transmitting sensor profiles.

[Click here to learn more details about IMSBT](#)



LEVITON App



Apple



Android

### AirLink Blue (ALBCSx)

Wireless Bluetooth Mesh Outdoor Lighting Control System that provides energy savings, code compliance and enhanced safety/security for parking lots and parking garages. Three key components; Bluetooth wireless radio/sensor controller, Time Keeper and an iOS App. Capable of grouping multiple fixtures and sensors as well as scheduling time-based events by zone. Radio/Sensor Controller is factory integrated into Area/Site, Wall Mounted, Parking Garage and Canopy luminaires.

[Click here to learn more details about AirLink Blue](#)



AirLink Blue App



Apple

## Sensor Sequence of Operations

| Standard Programming | On Event | Off Event | On Light Level | Dim Light Level | Daylight Harvesting  | Delay To Off | Sensitivity |
|----------------------|----------|-----------|----------------|-----------------|----------------------|--------------|-------------|
| OMSBTxL/IMSBTxL      | Motion   | No Motion | 100%           | N/A             | On; Auto Calibration | 20 minutes   | High        |
| OMS                  | Motion   | No Motion | N/A            | N/A             | N/A                  | 30 seconds   | Auto        |

| Operation       | Description  |
|-----------------|--|
| On Event        | Trigger that activates lights to turn on; either automatic via motion detected or manually activated via push of button.   |
| Off Event       | Trigger that activates lights to turn off; either automatic via no motion detected or manually activated via push of button.   |
| On Light Level  | The light level that the fixtures will turn on to when ON EVENT occurs.  |
| Dim Light Level | The light level that the fixtures will dim down to when no motion is detected.   |
| Delay to Dim    | The amount of time after which no motion is detected that the fixtures will be triggered to dim down. This sequence is optional, and sensor can be programmed to only trigger the fixture to turn off by entering 100% in this field.  |
| Delay to Off    | The amount of time after which no motion is detected that the fixtures will be triggered to turn off. If delay to dim is part of the programmed functionality, this is the amount of time after which no motion is detected after the fixture have already dimmed down.  |
| Sensitivity     | The sensitivity can be set to high, medium, low, or auto where applicable. High will detect smaller, simple motions. Low will only detect larger more complex motions. Auto temperature calibration adjusts the PIR sensitivity as ambient temperature rises to increase detection of heat movement through the field of view. |



# Mirada Medium (MRM)

## Outdoor LED Area Light



IP66 IK08



| OVERVIEW             |                             |
|----------------------|-----------------------------|
| Lumen Package        | 7,000 - 55,000              |
| Wattage Range        | 48 - 438                    |
| Efficacy Range (LPW) | 115 - 162                   |
| Weight lbs(kg)       | 30 (13.6)                   |
| Control Options      | IMSBT, ALB, ALS, 7-Pin, PCI |

### QUICK LINKS

[Ordering Guide](#)[Performance](#)[Photometrics](#)[Dimensions](#)

## FEATURES & SPECIFICATIONS

### Construction

- Rugged die-cast aluminum housing contains factory prewired driver and optical unit. Cast aluminum wiring access door located underneath.
- Designed to mount to square or round poles.
- Fixtures are finished with LSI's DuraGrip® polyester powder coat finishing process. The DuraGrip finish withstands extreme weather changes without cracking or peeling. Other standard LSI finishes available. Consult factory.
- Shipping weight: 37 lbs in carton.

### Optical System

- State-of-the-Art one piece silicone optic sheet delivers industry leading optical control with an integrated gasket to provide IP66 rated sealed optical chamber in 1 component.
- Proprietary silicone refractor optics provide exceptional coverage and uniformity in IES Types 2, 3, 4, 5W, FT, FTA, AM, and LC/RC.
- Silicone optical material does not yellow or crack with age and provides a typical light transmittance of 93-95%.
- Zero uplight.
- Available in 5000K, 4000K, and 3000K color temperatures per ANSI C78.377. Also Available in Phosphor Converted Amber with Peak intensity at 610nm.
- Minimum CRI of 70.
- Integral louver (IL) and integral half louver (IH) options available for enhanced backlight control.

### Electrical

- High-performance programmable driver features over-voltage, under-voltage, short-circuit and over temperature protection. Custom lumen and wattage packages available.
- 0-10V dimming (10% - 100%) standard.
- Standard Universal Voltage (120-277 Vac) Input 50/60 Hz or optional High Voltage (347-480 Vac).
- L80 Calculated Life: >100k Hours (See Lumen Maintenance chart)
- Total harmonic distortion: <20%
- Operating temperature: -40°C to +50°C (-40°F to +122°F). 42L and 48L lumen packages rated to +40°C. 55L lumen package rate to +35°C.
- Power factor: >.90
- Input power stays constant over life.
- Field replaceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).
- High-efficacy LEDs mounted to metal-core circuit board to maximize heat dissipation
- Components are fully encased in potting material for moisture resistance. Driver complies with FCC standards. Driver and key electronic components can easily be accessed.

### Controls

- Optional integral passive infrared Bluetooth™ motion. Fixtures operate independently and can be commissioned via iOS or Android configuration app
- LSI's AirLink™ wireless control system options reduce energy and maintenance

costs while optimizing light quality 24/7. (see controls section for more details).

### Installation

- Designed to mount to square or round poles.
- A single fastener secures the hinged door, underneath the housing and provides quick & easy access to the electrical compartment.
- Included terminal block accepts up to 12 ga. wire.
- Utilizes LSI's traditional 3" drill pattern B3 for easy fastening of LSI products.

### Warranty

- LSI LED Fixtures carry a 5-year warranty.

### Listings

- Listed to UL 1598 and UL 8750.
- Meets Buy American Act requirements.
- IDA compliant; with 3000K color temperature selection.
- Title 24 Compliant; see local ordinance for qualification information.
- RoHS compliant
- Suitable for wet Locations.
- IP66 rated Luminaire per IEC 60598.
- 3G rated for ANSI C136.31 high vibration applications are qualified.
- DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at [www.designlights.org/QPL](http://www.designlights.org/QPL) to confirm which versions are qualified.
- Patented Silicone Optics (US Patent NO. 10,816,165 B2)
- IK08 rated luminaire per IEC 66262 mechanical impact code



# Mirada Medium Outdoor LED Area Light

 **Have questions?** Call us at (800) 436-7800

Type : \_\_\_\_\_

## ORDERING GUIDE

[Back to Quick Links](#)

**TYPICAL ORDER EXAMPLE: MRM LED 36L SIL FTA UNV DIM 50 70CRI ALSC04 BRZ IL**

| Prefix                         | Light Source | Lumen Package   | Lens           | Distribution   | Orientation <sup>2</sup>  | Voltage  | Driver                      |
|--------------------------------|--------------|---|----------------|--|---|--|-----------------------------|
| MRM - Mirada Medium Area Light | LED          | 7L - 7,000 lms, 48W<br>9L - 9,000 lms, 62W<br>12L - 12,000 lms, 85W<br>18L - 18,000 lms, 135W<br>24L - 24,000 lms, 176W<br>30L - 30,000 lms, 232W<br>36L - 36,000 lms, 288W<br>42L - 42,000 lms, 314W<br>48L - 48,000 lms, 401W<br>55L - 55,000 lms, 438W<br>Custom Lumen Packages <sup>1</sup> | SIL - Silicone | 2 - Type 2<br>3 - Type 3<br>4 - Type 4<br>5W - Type 5 Wide<br>FT - Forward Throw<br>FTA - Forward Throw Automotive<br>AM - Automotive Merchandise<br>LC - Left Corner<br>RC - Right Corner | (blank) - standard<br>L - Optics rotated left 90°<br>R - Optics rotated right 90° | UNV - Universal Voltage (120-277V)<br>HV - High Voltage (347-480V) | DIM - 0-10V Dimming (0-10%) |

| Color Temp   | Color Rendering | Finish   | Options  |
|--|-----------------|--|--|
| 50 - 5,000 CCT<br>40 - 4,000 CCT<br>30 - 3,000 CCT<br>AMB - Phosphor Converted Amber <sup>12</sup> | 70CRI - 70 CRI  | BLK - Black<br>BRZ - Dark Bronze<br>GMG - Gun Metal Gray<br>GPT - Graphite | MSV - Metallic Silver<br>PLP - Platinum Plus<br>SVG - Satin Verde Green<br>WHT - White<br>(Blank) - None<br>IH - Integral Half Louver (Moderate Spill Light Cutoff) <sup>2</sup><br>IL - Integral Louver (Sharp Spill Light Cutoff) <sup>2</sup> |

### Controls (Choose One)

(Blank) - None

#### Wireless Controls System

ALSC - AirLink Synapse Control System<sup>13</sup>

ALSC02 - AirLink Synapse Control System with 12-20' Motion Sensor<sup>13</sup>

ALSC04 - AirLink Synapse Control System with 20-40' Motion Sensor<sup>13</sup>

ALBCS1 - AirLink Blue Wireless Motion & Photo Sensor Controller (8-24' mounting height)<sup>5</sup>

ALBCS2 - AirLink Blue Wireless Motion & Photo Sensor Controller (25-40' mounting height)<sup>5</sup>

#### Stand-Alone Controls

EXT - 0-10v Dimming leads extended to housing exterior

CR7P - 7 Pin Control Receptacle ANSI C136.41<sup>6</sup>

IMSBT1 - Integral Bluetooth™ Motion and Photocell Sensor (8-24' MH)<sup>5</sup>

IMSBT2 - Integral Bluetooth™ Motion and Photocell Sensor (25-40' MH)<sup>5</sup>

#### Button Type Photocells

PC1120 - 120V

PC1208-277 - 208 -277V

PC1347 - 347V



**Need more information?**

Click here for our glossary

**Have additional questions?**

Call us at (800) 436-7800



## ACCESSORY ORDERING INFORMATION<sup>7</sup>

| CONTROLS ACCESSORIES   |                |
|--|----------------|
| Description  | Order Number   |
| PC120 Photocell for use with CR7P option (120V) <sup>8</sup>                 | <b>122514</b>  |
| PC208-277 Photocell for use with CR7P option (208V, 240V, 277V) <sup>8</sup> | <b>122515</b>  |
| Twist Lock Photocell (347V) for use with CR7P <sup>8</sup>                   | <b>122516</b>  |
| Twist Lock Photocell (480V) for use with CR7P <sup>8</sup>                   | <b>1225180</b> |
| AirLink 5 Pin Twist Lock Controller (120-277V Only) <sup>8</sup>             | <b>661409</b>  |
| AirLink 7 Pin Twist Lock Controller (120-277V Only) <sup>8</sup>             | <b>661410</b>  |
| AirLink 7 Pin Twist Lock Controller (347-480V)                               | <b>679948</b>  |
| Shorting Cap for use with CR7P   | <b>149328</b>  |

| FUSING OPTIONS <sup>11</sup> |  |
|------------------------------|--|
| Single Fusing (120V)         |  |
| Single Fusing (277V)         |  |
| Double Fusing (208V, 240V)   |  |
| Double Fusing (480V)         |  |
| Double Fusing (347V)         |  |

[See Fusing Accessory Guide](#)

| SHIELDING OPTIONS |  |
|-------------------|--|
| Mirada Small      |  |
| Mirada Medium     |  |
| Mirada Large      |  |
| Zone Medium       |  |
| Zone Large        |  |
| Slice Medium      |  |

[See Shielding Guide](#)

1. Custom lumen and wattage packages available, consult factory. Values are within industry standard tolerances but not DLC listed.
2. Not available with 5W distribution
3. Consult Factory for availability.
4. Not available in HV.
5. Motion sensors are field configurable via an app that can be downloaded from your smartphone's native app store. See controls section for more details.
6. Control device or shorting cap must be ordered separately. See Accessory Ordering Information.
7. Accessories are shipped separately and field installed.
8. Factory installed CR7P option required. See Options.
9. "CLR" denotes finish. See Finish options.
10. Only available with ALSC/ALSC04 control options.
11. Fusing must be located in hand hole of pole. See [Fusing Accessory Guide](#) for compatibility.
12. Only available in 9L, 12L, 18L and 24L Lumen Packages. Consult factory for lead time and availability.
13. Not available with 55L Lumen Package.

# Mirada Medium Outdoor LED Area Light

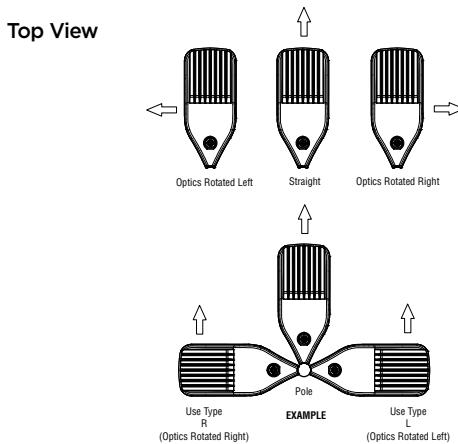
Type: \_\_\_\_\_

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## ACCESSORIES

| MOUNTING ACCESSORIES  |  |   | SHIELDING, POLES & MISC. ACCESSORIES   |   |
|-----------------------|--|---|--|---|
| Side Arm              | <b>Universal Mounting Bracket</b><br>Mounts to ≥ 3" square or round (tapered/straight) poles with (2) mounting hole spaces between 3.5" to 5"<br><br>Part Number: BKA UMB CLR      |    | <b>Integral Louver</b><br>Field Install Integral Louver provides maximum backlight control by shielding each individual row of LEDs<br><br>Part Number: 690981   |    |
|                       | <b>Quick Mount Plate</b><br>True one person installation to existing/new construction poles with hole spaces between 2.4 to 4.6"<br><br>Part Number: BKS PQM B3B5 XX CLR           |    | <b>Integral Half Louver</b><br>Field Install Integral Half Louver provides great backlight control without impacting front side distribution.<br><br>Part Number: 743415   |    |
|                       | <b>15° Tilt Quick Mount Plate</b><br>True one person installation to existing/new construction poles with hole spaces between 2.4 to 4.6"<br><br>Part Number: BKS PQ15 B3B5 XX CLR |    | <b>External Shield</b><br>External shield blocks view of light source from any side of luminaire, additional shielding configurations available<br><br>Part Number: 783607BLK (3") / 776538BLK (6")  |    |
| Tenon / Slipfitter    | <b>Adjustable Slipfitter</b><br>Mounts onto a 2" (51mm) IP, 2.375" (60mm) O.D. tenon and provides 180° of tilt (max 45° above horizontal)<br><br>Part Number: BKA ASF CLR          |    | <b>Square Poles</b><br>14 - 39' steel and aluminum poles in 4", 5" and 6" sizes for retrofit and new construction<br><br>Part Number: 4SQ/5SQ/6SQ  |    |
|                       | <b>Square Tenon Top</b><br>Mounts onto a 2" (51mm) IP, 2.375" (60mm) O.D. tenon and allows for mounting up to 4 luminaires<br><br>Part Number: BKA XNM *                           |    | <b>Round Poles</b><br>10 - 30' steel and aluminum poles in 4" and 5" sizes for retrofit and new construction<br><br>Part Number: 4RP/5RP   |    |
|                       | <b>Square Internal Slipfitter</b><br>Mounts inside 4" or 5" square pole and allows for mounting up to 4 luminaires<br><br>Part Number: BKA X_ISF * CLR                             |  | <b>Tapered Poles</b><br>20' - 39' steel and aluminum poles for retrofit and new construction<br><br>Part Number: RTP   |  |
| Wall Mount/ Wood Pole | <b>Wall Mount Bracket</b><br>Mounts onto vertical wall surface ( hardware/anchors not included)<br><br>Part Number: BKS XBO WM CLR   |  | <b>Bird Spikes</b><br>10' Linear Bird Spike Kit, 4' recommended per luminaire, includes silicone adhesive and application tool<br><br>Spike Part Number: 751631<br>Adhesive Part Number: 751632<br>Caulk Gun Part Number: 751636   |  |
|                       | <b>Wood Pole Bracket</b><br>Mounts onto wooden poles (6" minimum OD, hardware/anchors not included)<br><br>Part Number: BKS XBO WP CLR   |  | Replace CLR with paint finish description<br>Replace X with: 3<br>Replace XX with SQ for square pole or RD for round pole (≥3" OD)<br>Replace * with S (Single), D180 (Double @180°), D90 (Double @90°), T90 (Triple), Q90 (Quad)<br>Replace _ with 4 (4" square pole) or 5 (5" square pole) |   |

## OPTICS ROTATION



## ACCESSORIES/OPTIONS

### Integral Louver (IL) and House-Side Shield (IH)

Integral Louver (IL) and half louver (IH) accessory shields available for improved backlight control without sacrificing street side performance. LSI's Integral Louver (IL) and Integral House-Side Shield (IH) options deliver backlight control that significantly reduces spill light behind the poles for applications with pole locations close to adjacent properties. The design maximizes forward reflected light while reducing glare, maintaining the optical distribution selected, and most importantly eliminating light trespass. Both options rotate

Luminaire Shown with Integral Louver (IL)



Luminaire Shown with IMSBTL Option



### 7 Pin Photoelectric Control

7-pin ANSI C136.41-2013 control receptacle option available for twist lock photocontrols or wireless control modules. Control accessories sold separately. Dimming leads from the receptacle will be connected to the driver dimming leads (Consult factory for alternate wiring).

Luminaire Shown with CR7P



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SPEC.1020.B.0422

# Mirada Medium Outdoor LED Area Light

Type: \_\_\_\_\_

 Have questions? Call us at (800) 436-7800

## PERFORMANCE

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### DELIVERED LUMENS\*

| Lumen Package | Distribution | CRI | 3000K CCT        |          |            | 4000K CCT        |          |            | 5000K CCT        |          |            | Wattage |
|---------------|--------------|-----|------------------|----------|------------|------------------|----------|------------|------------------|----------|------------|---------|
|               |              |     | Delivered Lumens | Efficacy | BUG Rating | Delivered Lumens | Efficacy | BUG Rating | Delivered Lumens | Efficacy | BUG Rating |         |
| 9L            | 2            | 70  | 9853             | 159      | B2-U0-G2   | 9853             | 159      | B2-U0-G2   | 9853             | 159      | B2-U0-G2   | 62      |
|               | 3            |     | 9926             | 160      | B2-U0-G2   | 9926             | 160      | B2-U0-G2   | 9926             | 160      | B2-U0-G2   |         |
|               | 4            |     | 9178             | 148      | B2-U0-G3   | 9713             | 157      | B2-U0-G3   | 9498             | 153      | B2-U0-G3   |         |
|               | 5W           |     | 9504             | 153      | B3-U0-G2   | 9504             | 153      | B3-U0-G2   | 9504             | 153      | B3-U0-G2   |         |
|               | FT           |     | 9856             | 159      | B2-U0-G3   | 9856             | 159      | B2-U0-G3   | 9856             | 159      | B2-U0-G3   |         |
|               | FTA          |     | 9900             | 160      | B2-U0-G2   | 9900             | 160      | B2-U0-G2   | 9900             | 160      | B2-U0-G2   |         |
|               | AM           |     | 10019            | 162      | B2-U0-G1   | 10019            | 162      | B2-U0-G1   | 10019            | 162      | B2-U0-G1   |         |
|               | LC/RC        |     | 9008             | 145      | B2-U0-G3   | 9533             | 154      | B2-U0-G3   | 9321             | 150      | B2-U0-G3   |         |
| 12L           | 2            | 70  | 13135            | 155      | B3-U0-G2   | 13135            | 155      | B3-U0-G2   | 13135            | 155      | B3-U0-G2   | 85      |
|               | 3            |     | 13232            | 156      | B2-U0-G2   | 13232            | 156      | B2-U0-G2   | 13232            | 156      | B2-U0-G2   |         |
|               | 4            |     | 12223            | 144      | B2-U0-G3   | 12935            | 152      | B2-U0-G4   | 12648            | 149      | B2-U0-G4   |         |
|               | 5W           |     | 12669            | 149      | B4-U0-G2   | 12669            | 149      | B4-U0-G2   | 12669            | 149      | B4-U0-G2   |         |
|               | FT           |     | 13138            | 155      | B2-U0-G3   | 13138            | 155      | B2-U0-G3   | 13138            | 155      | B2-U0-G3   |         |
|               | FTA          |     | 13196            | 155      | B2-U0-G2   | 13196            | 155      | B2-U0-G2   | 13196            | 155      | B2-U0-G2   |         |
|               | AM           |     | 13355            | 157      | B2-U0-G2   | 13355            | 157      | B2-U0-G2   | 13355            | 157      | B2-U0-G2   |         |
|               | LC/RC        |     | 11996            | 141      | B2-U0-G3   | 12695            | 149      | B2-U0-G3   | 12414            | 146      | B2-U0-G3   |         |
| 18L           | 2            | 70  | 19318            | 143      | B3-U0-G3   | 19318            | 143      | B3-U0-G3   | 19318            | 143      | B3-U0-G3   | 135     |
|               | 3            |     | 19461            | 144      | B3-U0-G3   | 19461            | 144      | B3-U0-G3   | 19461            | 144      | B3-U0-G3   |         |
|               | 4            |     | 18013            | 133      | B2-U0-G4   | 19063            | 141      | B3-U0-G5   | 18640            | 138      | B3-U0-G5   |         |
|               | 5W           |     | 18633            | 138      | B4-U0-G2   | 18633            | 138      | B4-U0-G2   | 18633            | 138      | B4-U0-G2   |         |
|               | FT           |     | 19324            | 143      | B3-U0-G3   | 19324            | 143      | B3-U0-G3   | 19324            | 143      | B3-U0-G3   |         |
|               | FTA          |     | 19408            | 144      | B3-U0-G3   | 19408            | 144      | B3-U0-G3   | 19408            | 144      | B3-U0-G3   |         |
|               | AM           |     | 19641            | 145      | B3-U0-G2   | 19641            | 145      | B3-U0-G2   | 19641            | 145      | B3-U0-G2   |         |
|               | LC/RC        |     | 17679            | 131      | B2-U0-G3   | 18710            | 139      | B2-U0-G3   | 18295            | 136      | B2-U0-G3   |         |
| 24L           | 2            | 70  | 24142            | 147      | B4-U0-G3   | 25957            | 147      | B4-U0-G3   | 25957            | 147      | B4-U0-G3   | 176     |
|               | 3            |     | 25001            | 149      | B3-U0-G3   | 26149            | 149      | B3-U0-G3   | 26149            | 149      | B3-U0-G3   |         |
|               | 4            |     | 24396            | 152      | B3-U0-G5   | 25600            | 160      | B3-U0-G5   | 25457            | 159      | B3-U0-G5   |         |
|               | 5W           |     | 24327            | 142      | B5-U0-G3   | 25037            | 142      | B5-U0-G3   | 25037            | 142      | B5-U0-G3   |         |
|               | FT           |     | 24994            | 148      | B3-U0-G3   | 25964            | 148      | B3-U0-G3   | 25964            | 148      | B3-U0-G3   |         |
|               | FTA          |     | 24171            | 148      | B3-U0-G3   | 26077            | 148      | B4-U0-G3   | 26077            | 148      | B4-U0-G3   |         |
|               | AM           |     | 24939            | 150      | B3-U0-G2   | 26393            | 150      | B3-U0-G2   | 26393            | 150      | B3-U0-G2   |         |
|               | LC/RC        |     | 25884            | 162      | B3-U0-G4   | 25884            | 162      | B3-U0-G4   | 25310            | 158      | B3-U0-G4   |         |
| 30L           | 2            | 70  | 30171            | 140      | B4-U0-G3   | 32417            | 140      | B4-U0-G3   | 32417            | 140      | B4-U0-G3   | 232     |
|               | 3            |     | 31243            | 141      | B3-U0-G4   | 32656            | 141      | B3-U0-G4   | 32656            | 141      | B3-U0-G4   |         |
|               | 4            |     | 30651            | 144      | B3-U0-G5   | 32141            | 151      | B3-U0-G5   | 31961            | 150      | B3-U0-G5   |         |
|               | 5W           |     | 30402            | 135      | B5-U0-G3   | 31267            | 135      | B5-U0-G3   | 31267            | 135      | B5-U0-G3   |         |
|               | FT           |     | 31233            | 140      | B4-U0-G4   | 32424            | 140      | B4-U0-G4   | 32424            | 140      | B4-U0-G4   |         |
|               | FTA          |     | 30207            | 140      | B4-U0-G4   | 32566            | 140      | B4-U0-G4   | 32566            | 140      | B4-U0-G4   |         |
|               | AM           |     | 3116             | 142      | B4-U0-G3   | 32960            | 142      | B4-U0-G3   | 32960            | 142      | B4-U0-G3   |         |
|               | LC/RC        |     | 32498            | 153      | B3-U0-G5   | 32498            | 153      | B3-U0-G5   | 31777            | 149      | B3-U0-G5   |         |

\*LEDs are frequently updated therefore values are nominal.



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# Mirada Medium Outdoor LED Area Light

Type : \_\_\_\_\_

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## PERFORMANCE (CONT.)

| DELIVERED LUMENS* |              |     |                  |          |            |                  |          |            |                  |          |            |         |
|-------------------|--------------|-----|------------------|----------|------------|------------------|----------|------------|------------------|----------|------------|---------|
| Lumen Package     | Distribution | CRI | 3000K CCT        |          |            | 4000K CCT        |          |            | 5000K CCT        |          |            | Wattage |
|                   |              |     | Delivered Lumens | Efficacy | BUG Rating | Delivered Lumens | Efficacy | BUG Rating | Delivered Lumens | Efficacy | BUG Rating |         |
| 36L               | 2            | 70  | 35357            | 133      | B4-U0-G3   | 38275            | 133      | B4-U0-G3   | 38275            | 133      | B4-U0-G3   | 288     |
|                   | 3            |     | 36614            | 134      | B4-U0-G4   | 38557            | 134      | B4-U0-G4   | 38557            | 134      | B4-U0-G4   |         |
|                   | 4            |     | 35402            | 139      | B3-U0-G5   | 37148            | 146      | B4-U0-G5   | 36940            | 145      | B4-U0-G5   |         |
|                   | 5W           |     | 35627            | 128      | B5-U0-G4   | 36917            | 128      | B5-U0-G4   | 36917            | 128      | B5-U0-G4   |         |
|                   | FT           |     | 36602            | 133      | B4-U0-G4   | 38283            | 133      | B4-U0-G4   | 38283            | 133      | B4-U0-G4   |         |
|                   | FTA          |     | 35399            | 134      | B4-U0-G4   | 38450            | 134      | B4-U0-G4   | 38450            | 134      | B4-U0-G4   |         |
|                   | AM           |     | 36524            | 135      | B4-U0-G3   | 38916            | 135      | B4-U0-G3   | 38916            | 135      | B4-U0-G3   |         |
|                   | LC/RC        |     | 37561            | 147      | B3-U0-G5   | 37561            | 147      | B3-U0-G5   | 36727            | 144      | B3-U0-G5   |         |
|                   | 2            |     | 41035            | 131      | B5-U0-G4   | 42602            | 136      | B5-U0-G4   | 42542            | 135      | B5-U0-G4   | 314     |
| 42L               | 3            | 70  | 42493            | 135      | B4-U0-G5   | 44115            | 140      | B4-U0-G5   | 44053            | 140      | B4-U0-G5   |         |
|                   | 4            |     | 41453            | 132      | B4-U0-G5   | 43497            | 138      | B4-U0-G5   | 43254            | 138      | B4-U0-G5   |         |
|                   | 5W           |     | 41349            | 132      | B5-U0-G4   | 42927            | 134      | B5-U0-G4   | 42866            | 137      | B5-U0-G4   |         |
|                   | FT           |     | 42481            | 135      | B4-U0-G4   | 44103            | 140      | B4-U0-G4   | 44040            | 140      | B4-U0-G4   |         |
|                   | FTA          |     | 41083            | 131      | B4-U0-G4   | 42652            | 136      | B5-U0-G4   | 42591            | 136      | B5-U0-G4   |         |
|                   | AM           |     | 42389            | 135      | B4-U0-G3   | 44007            | 140      | B4-U0-G3   | 43944            | 140      | B4-U0-G3   |         |
|                   | LC/RC        |     | 43980            | 140      | B3-U0-G5   | 43980            | 140      | B3-U0-G5   | 43004            | 137      | B3-U0-G5   |         |
|                   | 2            | 70  | 45133            | 123      | B5-U0-G4   | 46856            | 128      | B5-U0-G4   | 46789            | 128      | B5-U0-G4   | 401     |
|                   | 3            |     | 46737            | 128      | B4-U0-G5   | 48521            | 133      | B4-U0-G5   | 48452            | 132      | B4-U0-G5   |         |
|                   | 4            |     | 46006            | 126      | B4-U0-G5   | 48275            | 132      | B4-U0-G5   | 48005            | 131      | B4-U0-G5   |         |
|                   | 5W           |     | 45478            | 124      | B5-U0-G4   | 47214            | 129      | B5-U0-G4   | 47147            | 129      | B5-U0-G4   |         |
|                   | FT           |     | 46723            | 128      | B4-U0-G5   | 48507            | 133      | B4-U0-G5   | 48438            | 132      | B4-U0-G5   |         |
|                   | FTA          |     | 45187            | 123      | B5-U0-G4   | 46912            | 128      | B5-U0-G4   | 46845            | 128      | B5-U0-G4   |         |
|                   | AM           |     | 4662             | 127      | B4-U0-G3   | 48402            | 132      | B4-U0-G3   | 48333            | 132      | B4-U0-G3   |         |
|                   | LC/RC        |     | 48811            | 133      | B4-U0-G5   | 48811            | 133      | B4-U0-G5   | 47728            | 130      | B4-U0-G5   |         |
| 55L               | 2            | 70  | 50179            | 115      | B5-U0-G4   | 52095            | 119      | B5-U0-G4   | 52021            | 119      | B5-U0-G4   | 438     |
|                   | 3            |     | 51963            | 119      | B4-U0-G5   | 53947            | 123      | B4-U0-G5   | 53870            | 123      | B4-U0-G5   |         |
|                   | 4            |     | 51635            | 119      | B4-U0-G5   | 54181            | 125      | B4-U0-G5   | 53878            | 124      | B4-U0-G5   |         |
|                   | 5W           |     | 50563            | 115      | B5-U0-G4   | 52493            | 120      | B5-U0-G4   | 52418            | 120      | B5-U0-G4   |         |
|                   | FT           |     | 50539            | 115      | B4-U0-G5   | 52468            | 120      | B4-U0-G5   | 52394            | 120      | B4-U0-G5   |         |
|                   | FTA          |     | 50239            | 115      | B5-U0-G4   | 52157            | 119      | B5-U0-G4   | 52082            | 119      | B5-U0-G4   |         |
|                   | AM           |     | 52223            | 119      | B4-U0-G3   | 54216            | 124      | B4-U0-G3   | 54139            | 124      | B4-U0-G3   |         |
|                   | LC/RC        |     | 54113            | 124      | B4-U0-G5   | 54113            | 124      | B4-U0-G5   | 52912            | 121      | B4-U0-G5   |         |

\*LEDs are frequently updated therefore values are nominal.



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SPEC.1020.B.0422

# Mirada Medium Outdoor LED Area Light

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Type: \_\_\_\_\_

## PERFORMANCE (CONT.)

| ELECTRICAL DATA (AMPS)* |      |      |      |      |      |      |
|-------------------------|------|------|------|------|------|------|
| Lumens                  | 120V | 208V | 240V | 277V | 347V | 480V |
| 9L                      | 0.52 | 0.30 | 0.26 | 0.22 | 0.18 | 0.13 |
| 12L                     | 0.71 | 0.41 | 0.35 | 0.31 | 0.24 | 0.18 |
| 18L                     | 1.13 | 0.65 | 0.56 | 0.49 | 0.39 | 0.28 |
| 24L                     | 1.33 | 0.77 | 0.67 | 0.58 | 0.46 | 0.33 |
| 30L                     | 1.78 | 1.02 | 0.89 | 0.77 | 0.61 | 0.44 |
| 36L                     | 2.12 | 1.22 | 1.06 | 0.92 | 0.73 | 0.53 |
| 42L                     | 2.62 | 1.51 | 1.31 | 1.13 | 0.90 | 0.65 |
| 48L                     | 3.05 | 1.76 | 1.53 | 1.32 | 1.05 | 0.76 |
| 55L                     | 3.65 | 2.11 | 1.83 | 1.58 | 1.26 | 0.91 |

| RECOMMENDED LUMEN MAINTENANCE <sup>1</sup> (0-25°C) |                      |                  |                   |                   |                    |
|---|----------------------|------------------|-------------------|-------------------|--------------------|
| Ambient   | Initial <sup>2</sup> | 25h <sup>2</sup> | 50hr <sup>2</sup> | 75hr <sup>2</sup> | 100hr <sup>2</sup> |
| 9L - 18L  | 100%                 | 97%              | 93%               | 90%               | 86%                |
| 24L - 48L   | 100%                 | 95%              | 89%               | 84%               | 79%                |
| 55L   | 100%                 | 91%              | 82%               | 74%               | 67%                |

| RECOMMENDED LUMEN MAINTENANCE <sup>1</sup> (40°C) |                      |                  |                   |                   |                    |
|---|----------------------|------------------|-------------------|-------------------|--------------------|
| Ambient   | Initial <sup>2</sup> | 25h <sup>2</sup> | 50hr <sup>2</sup> | 75hr <sup>2</sup> | 100hr <sup>2</sup> |
| 9L - 18L  | 100%                 | 97%              | 92%               | 88%               | 84%                |
| 24L - 48L   | 100%                 | 94%              | 87%               | 80%               | 74%                |

| RECOMMENDED LUMEN MAINTENANCE <sup>1</sup> (50°C) |                      |                  |                   |                   |                    |
|---|----------------------|------------------|-------------------|-------------------|--------------------|
| Ambient   | Initial <sup>2</sup> | 25h <sup>2</sup> | 50hr <sup>2</sup> | 75hr <sup>2</sup> | 100hr <sup>2</sup> |
| 9L - 18L C  | 100%                 | 96%              | 91%               | 87%               | 85%                |

\*Electrical data at 25°C (77°F). Actual wattage may differ by +/-10%

1. Lumen maintenance values at 25C are calculated per TM-21 based on LM-80 data and in-situ testing.
2. In accordance with IESNA TM-21-11, Projected Values represent interpolated value based on time durations that are within six times the IESNA LM-80-08 total test duration for the device under testing.
3. In accordance with IESNA TM-21-11, Calculated Values represent time durations that exceed six times the IESNA LM-80-08 total test duration for the device under testing.

| DELIVERED LUMENS* |              |                                       |          |            |         |
|-------------------|--------------|---------------------------------------|----------|------------|---------|
| Lumen Package     | Distribution | Phosphor Converted Amber (Peak 610mm) |          |            | Wattage |
|                   |              | Delivered Lumens                      | Efficacy | BUG Rating |         |
| 9L                | 2            | 5848                                  | 80       | B2-U0-G2   | 74      |
|                   | 3            | 6018                                  | 82       | B1-U0-G2   |         |
|                   | 5W           | 5471                                  | 74       | B3-U0-G1   |         |
|                   | FT           | 5801                                  | 79       | B1-U0-G2   |         |
|                   | FTA          | 5924                                  | 81       | B1-U0-G1   |         |
|                   | AM           | 5995                                  | 81       | B1-U0-G1   |         |
| 12L               | 2            | 7530                                  | 74       | B2-U0-G2   | 102     |
|                   | 3            | 7749                                  | 76       | B1-U0-G2   |         |
|                   | 5W           | 7045                                  | 69       | B3-U0-G2   |         |
|                   | FT           | 7470                                  | 73       | B2-U0-G2   |         |
|                   | FTA          | 7628                                  | 75       | B2-U0-G2   |         |
|                   | AM           | 7720                                  | 76       | B1-U0-G1   |         |
| 18L               | 2            | 9311                                  | 69       | B2-U0-G2   | 135     |
|                   | 3            | 9582                                  | 71       | B2-U0-G2   |         |
|                   | 5W           | 8712                                  | 65       | B3-U0-G2   |         |
|                   | FT           | 9237                                  | 68       | B2-U0-G2   |         |
|                   | FTA          | 9433                                  | 70       | B2-U0-G2   |         |
|                   | AM           | 9546                                  | 71       | B2-U0-G1   |         |
| 24L               | 2            | 10955                                 | 63       | B2-U0-G2   | 175     |
|                   | 3            | 11273                                 | 64       | B2-U0-G2   |         |
|                   | 5W           | 10249                                 | 59       | B3-U0-G2   |         |
|                   | FT           | 10867                                 | 62       | B2-U0-G2   |         |
|                   | FTA          | 11097                                 | 63       | B2-U0-G2   |         |
|                   | AM           | 11230                                 | 64       | B2-U0-G1   |         |

| ELECTRICAL DATA - PHOSPHOR CONVERTED AMBER (AMPS)* |      |      |      |      |      |
|--|------|------|------|------|------|
| Lumens   | 120V | 208V | 240V | 277V | 347V |
| 9L   | 0.62 | 0.36 | 0.31 | 0.27 | 0.21 |
| 12L  | 0.85 | 0.50 | 0.43 | 0.38 | 0.30 |
| 18L  | 1.13 | 0.65 | 0.56 | 0.49 | 0.39 |
| 24L  | 1.47 | 0.85 | 0.73 | 0.64 | 0.51 |

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SPEC.1020.B.0422

# Mirada Medium Outdoor LED Area Light

Type: \_\_\_\_\_



## PHOTOMETRICS

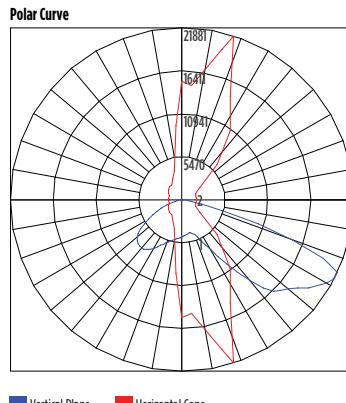
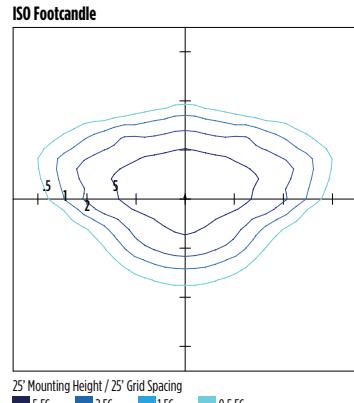
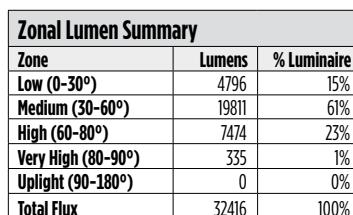
[Back to Quick Links](#)

Luminaire photometry has been conducted by a NVLAP accredited testing laboratory in accordance with IESNA LM-79-08. As specified by IESNA LM-79-08 the entire luminaire is tested as the source resulting in a luminaire efficiency of 100%.

See the individual product page on <https://www.lsicorp.com/> for detailed photometric data.

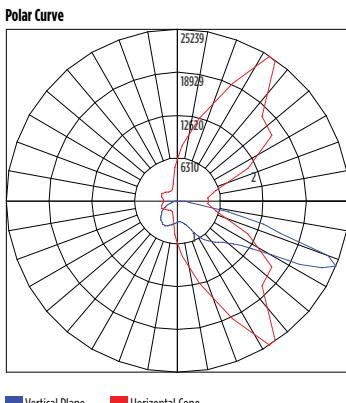
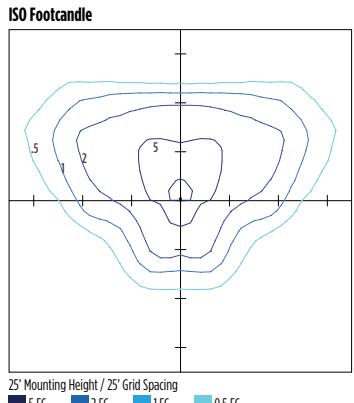
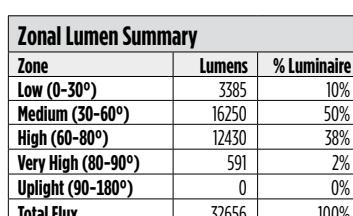
**MRM-LED-30L-SIL-2-40-70CRI**

| <b>Luminaire Data</b>      |                     |
|----------------------------|---------------------|
| <b>Type 2 Distribution</b> |                     |
| <b>Description</b>         | 4000 Kelvin, 70 CRI |
| <b>Delivered Lumens</b>    | 32,416              |
| <b>Watts</b>               | 232                 |
| <b>Efficacy</b>            | 140                 |
| <b>IES Type</b>            | Type II - Short     |
| <b>BUG Rating</b>          | B4-U0-G3            |



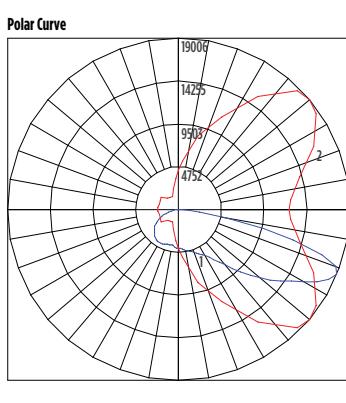
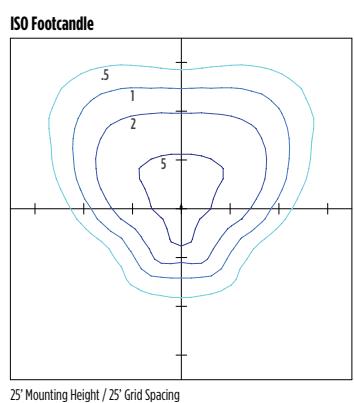
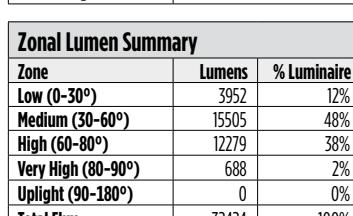
MRM-LED-30L-SIL-3-40-70CRI

| Luminaire Data          |                     |
|-------------------------|---------------------|
| Type 3 Distribution     |                     |
| <b>Description</b>      | 4000 Kelvin, 70 CRI |
| <b>Delivered Lumens</b> | 32,656              |
| <b>Watts</b>            | 232                 |
| <b>Efficacy</b>         | 141                 |
| <b>IES Type</b>         | Type III - Short    |
| <b>R12 Rating</b>       | R3-110-64           |



MRM-1 ED-301-SII-ET-40-70CB

| <b>Luminaire Data</b>       |                     |
|-----------------------------|---------------------|
| <b>Type FT Distribution</b> |                     |
| <b>Description</b>          | 4000 Kelvin, 70 CRI |
| <b>Delivered Lumens</b>     | 32,424              |
| <b>Watts</b>                | 232                 |
| <b>Efficacy</b>             | 140                 |
| <b>IES Type</b>             | Type IV - Short     |
| <b>RHS Rating</b>           | R7, U2, G4          |



# Mirada Medium Outdoor LED Area Light

Type : \_\_\_\_\_

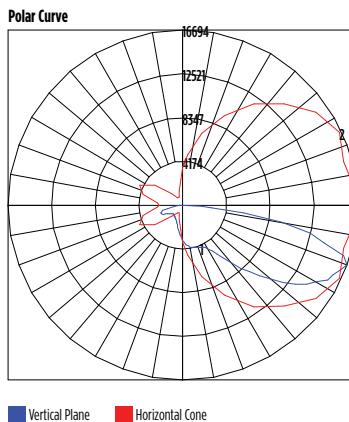
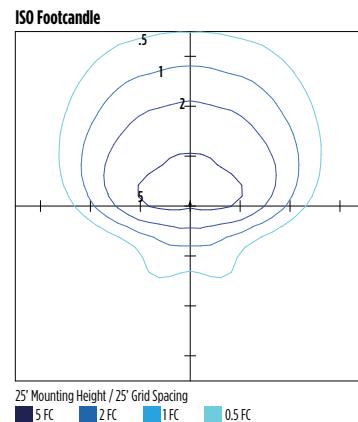
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## PHOTOMETRICS (CONT)

### MRM-LED-30L-SIL-4-40-70CRI

| Luminaire Data      |                      |
|---------------------|----------------------|
| Type 4 Distribution |                      |
| Description         | 4000 Kelvin, 70 CRI  |
| Delivered Lumens    | 32,141               |
| Watts               | 213                  |
| Efficacy            | 151                  |
| IES Type            | Type IV - Very Short |
| BUG Rating          | B3-U0-G5             |

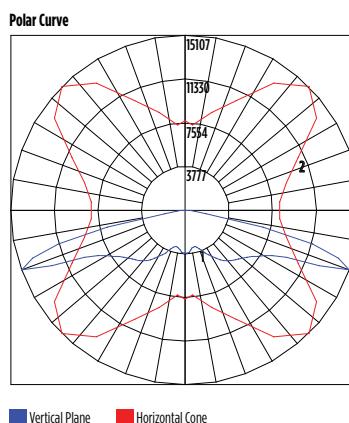
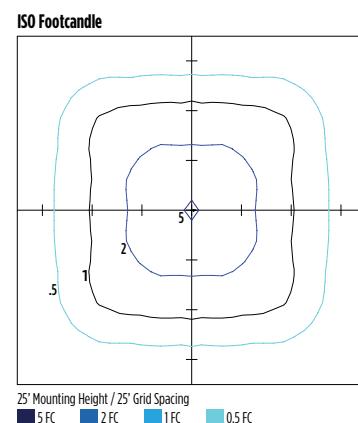
| Zonal Lumen Summary |        |             |
|---------------------|--------|-------------|
| Zone                | Lumens | % Luminaire |
| Low (0-30°)         | 3119   | 10%         |
| Medium (30-60°)     | 13569  | 42%         |
| High (60-80°)       | 13649  | 42%         |
| Very High (80-90°)  | 1804   | 6%          |
| Uplight (90-180°)   | 0      | 0%          |
| Total Flux          | 32141  | 100%        |



### MRM-LED-30L-SIL-5W-40-70CRI

| Luminaire Data       |                     |
|----------------------|---------------------|
| Type 5W Distribution |                     |
| Description          | 4000 Kelvin, 70 CRI |
| Delivered Lumens     | 31,267              |
| Watts                | 232                 |
| Efficacy             | 135                 |
| IES Type             | Type VS - Short     |
| BUG Rating           | B5-U0-G3            |

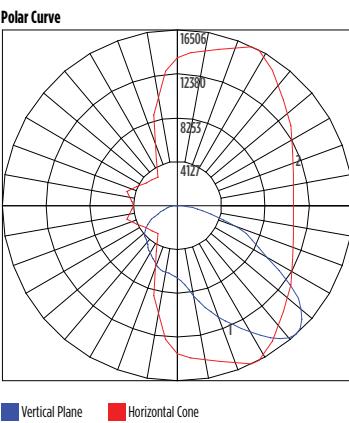
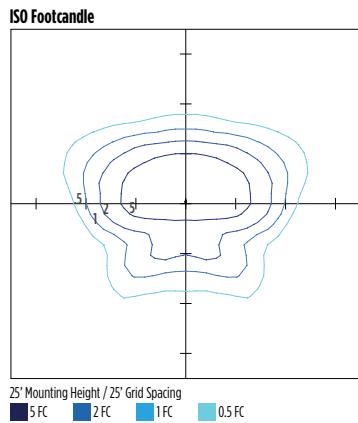
| Zonal Lumen Summary |        |             |
|---------------------|--------|-------------|
| Zone                | Lumens | % Luminaire |
| Low (0-30°)         | 3138   | 10%         |
| Medium (30-60°)     | 13193  | 42%         |
| High (60-80°)       | 14641  | 47%         |
| Very High (80-90°)  | 296    | 1%          |
| Uplight (90-180°)   | 0      | 0%          |
| Total Flux          | 31267  | 100%        |



### MRM-LED-30L-SIL-FTA-40-70CRI

| Luminaire Data        |                     |
|-----------------------|---------------------|
| Type FTA Distribution |                     |
| Description           | 4000 Kelvin, 70 CRI |
| Delivered Lumens      | 32,566              |
| Watts                 | 232                 |
| Efficacy              | 140                 |
| IES Type              | Type VS - Short     |
| BUG Rating            | B4-U0-G3            |

| Zonal Lumen Summary |        |             |
|---------------------|--------|-------------|
| Zone                | Lumens | % Luminaire |
| Low (0-30°)         | 6986   | 21%         |
| Medium (30-60°)     | 19172  | 59%         |
| High (60-80°)       | 5875   | 18%         |
| Very High (80-90°)  | 534    | 2%          |
| Uplight (90-180°)   | 0      | 0%          |
| Total Flux          | 32566  | 100%        |



# Mirada Medium Outdoor LED Area Light

Type: \_\_\_\_\_

 Have questions? Call us at (800) 436-7800

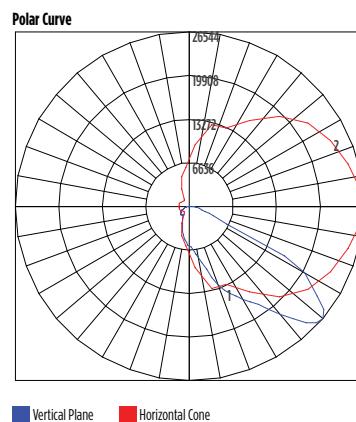
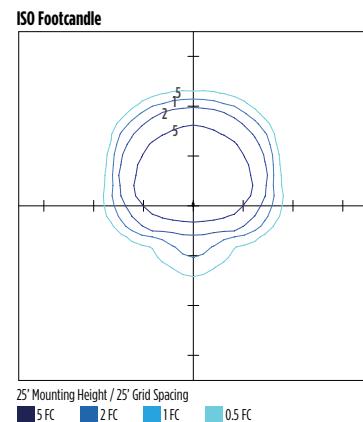
## PHOTOMETRICS (CONT)

[Back to Quick Links](#)

### MRM-LED-30L-SIL-AM-40-70CRI

| Luminaire Data       |                       |
|----------------------|-----------------------|
| Type AM Distribution |                       |
| Description          | 4000 Kelvin, 70 CRI   |
| Delivered Lumens     | 32,960                |
| Watts                | 232                   |
| Efficacy             | 142                   |
| IES Type             | Type III - Very Short |
| BUG Rating           | B3-U0-G3              |

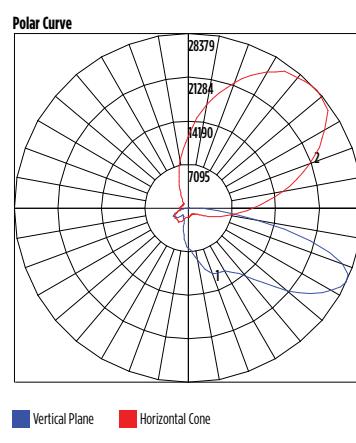
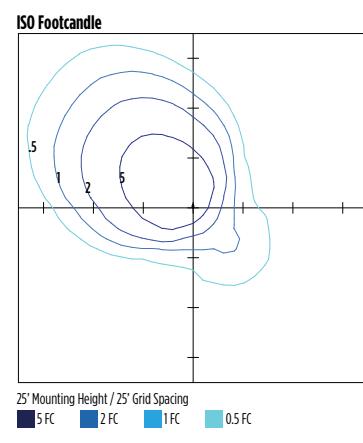
| Zonal Lumen Summary |        |             |
|---------------------|--------|-------------|
| Zone                | Lumens | % Luminaire |
| Low (0-30°)         | 6363   | 19%         |
| Medium (30-60°)     | 22026  | 67%         |
| High (60-80°)       | 4192   | 13%         |
| Very High (80-90°)  | 379    | 1%          |
| Uplight (90-180°)   | 0      | 0%          |
| Total Flux          | 32960  | 100%        |



### MRM-LED-30L-SIL-LC-40-70CRI

| Luminaire Data           |                     |
|--------------------------|---------------------|
| Left Corner Distribution |                     |
| Description              | 4000 Kelvin, 70 CRI |
| Delivered Lumens         | 32,498              |
| Watts                    | 213                 |
| Efficacy                 | 153                 |
| IES Type                 | N/A                 |
| BUG Rating               | B3-U0-G5            |

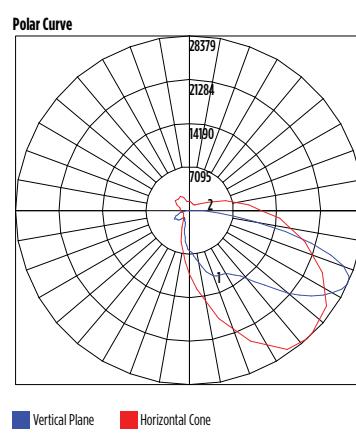
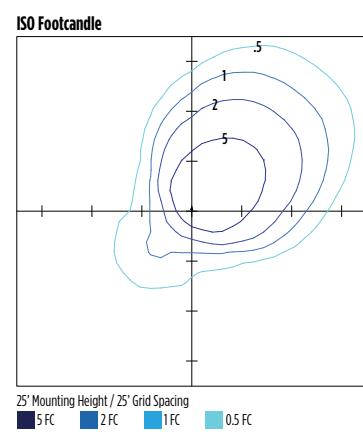
| Zonal Lumen Summary |        |             |
|---------------------|--------|-------------|
| Zone                | Lumens | % Luminaire |
| Low (0-30°)         | 5083   | 16%         |
| Medium (30-60°)     | 14808  | 46%         |
| High (60-80°)       | 11603  | 36%         |
| Very High (80-90°)  | 1005   | 3%          |
| Uplight (90-180°)   | 0      | 0%          |
| Total Flux          | 32498  | 100%        |



### MRM-LED-30L-SIL-RC-40-70CRI

| Luminaire Data            |                     |
|---------------------------|---------------------|
| Right Corner Distribution |                     |
| Description               | 4000 Kelvin, 70 CRI |
| Delivered Lumens          | 32,498              |
| Watts                     | 213                 |
| Efficacy                  | 153                 |
| IES Type                  | N/A                 |
| BUG Rating                | B3-U0-G5            |

| Zonal Lumen Summary |        |             |
|---------------------|--------|-------------|
| Zone                | Lumens | % Luminaire |
| Low (0-30°)         | 5083   | 16%         |
| Medium (30-60°)     | 14808  | 46%         |
| High (60-80°)       | 11603  | 36%         |
| Very High (80-90°)  | 1005   | 3%          |
| Uplight (90-180°)   | 0      | 0%          |
| Total Flux          | 32498  | 100%        |



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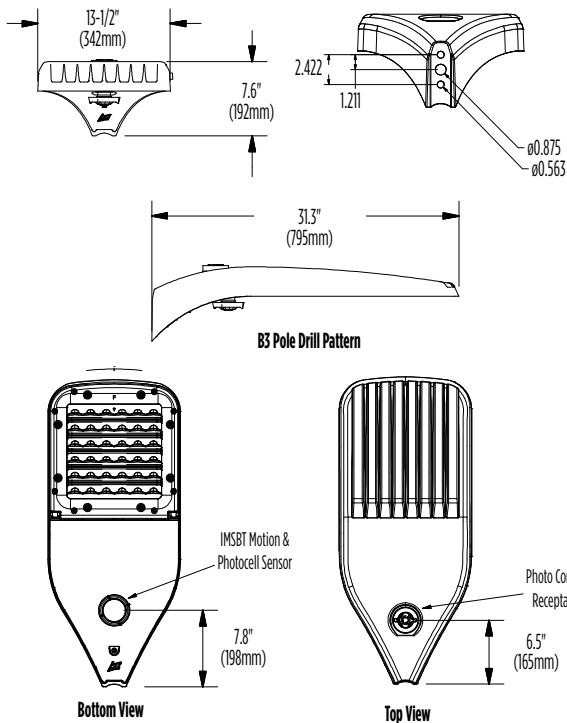
SPEC.1020.B.0422

# Mirada Medium Outdoor LED Area Light

Type: \_\_\_\_\_

 **Have questions?** Call us at (800) 436-7800

## PRODUCT DIMENSIONS



### Luminaire EPA Chart

| Tilt Degree   | 0°  | 15° | 30° | 45° |
|---|-----|-----|-----|-----|
|  <b>Single</b> | 0.5 | 1.0 | 1.5 | 1.9 |
|  <b>D180°</b>  | 1.0 | 1.5 | 1.5 | 1.9 |
|  <b>D90°</b>   | 0.8 | 1.8 | 1.9 | 2.3 |
|  <b>T90°</b>   | 1.0 | 4.0 | 2.5 | 2.8 |
|  <b>TN120°</b> | 1.0 | 2.9 | 3.3 | 3.9 |
|  <b>Q90°</b>   | 1.0 | 4.0 | 2.5 | 2.8 |



# Mirada Medium Outdoor LED Area Light

Type: \_\_\_\_\_

 **Have questions?** Call us at (800) 436-7800

## CONTROLS

### Integral Bluetooth™ Motion and Photocell Sensor (IMSBTxL)

Slim low profile sensor provides multi-level control based on motion and/or daylight. Sensor controls 0-10 VDC LED drivers and is IP66 rated for cold and wet locations (-40°F to 167°F). Two unique PIR lenses are available and used based on fixture mounting height. All control parameters are adjustable via an iOS or Android App capable of storing and transmitting sensor profiles.

[Click here to learn more details about IMSBT](#)



LEVITON App



Apple



Android

### AirLink Blue (ALBCSx)

Wireless Bluetooth Mesh Outdoor Lighting Control System that provides energy savings, code compliance and enhanced safety/security for parking lots and parking garages. Three key components; Bluetooth wireless radio/sensor controller, Time Keeper and an iOS App. Capable of grouping multiple fixtures and sensors as well as scheduling time-based events by zone. Radio/Sensor Controller is factory integrated into Area/Site, Wall Mounted, Parking Garage and Canopy luminaires.

[Click here to learn more details about AirLink Blue](#)



AirLink Blue App



Apple

## Sensor Sequence of Operations

| Standard Programming | On Event | Off Event | On Light Level | Dim Light Level | Daylight Harvesting  | Delay To Off | Sensitivity |
|----------------------|----------|-----------|----------------|-----------------|----------------------|--------------|-------------|
| OMSBTxL/IMSBTxL      | Motion   | No Motion | 100%           | N/A             | On; Auto Calibration | 20 minutes   | High        |
| OMS                  | Motion   | No Motion | N/A            | N/A             | N/A                  | 30 seconds   | Auto        |

| Operation       | Description  |
|-----------------|--|
| On Event        | Trigger that activates lights to turn on; either automatic via motion detected or manually activated via push of button.   |
| Off Event       | Trigger that activates lights to turn off; either automatic via no motion detected or manually activated via push of button.   |
| On Light Level  | The light level that the fixtures will turn on to when ON EVENT occurs.  |
| Dim Light Level | The light level that the fixtures will dim down to when no motion is detected.   |
| Delay to Dim    | The amount of time after which no motion is detected that the fixtures will be triggered to dim down. This sequence is optional, and sensor can be programmed to only trigger the fixture to turn off by entering 100% in this field.  |
| Delay to Off    | The amount of time after which no motion is detected that the fixtures will be triggered to turn off. If delay to dim is part of the programmed functionality, this is the amount of time after which no motion is detected after the fixture have already dimmed down.  |
| Sensitivity     | The sensitivity can be set to high, medium, low, or auto where applicable. High will detect smaller, simple motions. Low will only detect larger more complex motions. Auto temperature calibration adjusts the PIR sensitivity as ambient temperature rises to increase detection of heat movement through the field of view. |



# Steel Poles

## Square Straight



### QUICK LINKS

## FEATURES & SPECIFICATIONS

### Pole Shaft

- Straight poles are 4", 5", or 6" square.
- Pole shaft is electro-welded ASTM-A500 Grade C steel tubing with a minimum yield strength of 50,000 psi.
- On Tenon Mount steel poles, tenon is 2-3/8" O.D. high-strength pipe. Tenon is 4-3/4" in length.

### Hand-Hole

- Standard hand-hole location is 12" above pole base.
- Poles 22' and above have a 3x6 reinforced hand hole.

### Base

- Pole base is ASTM-A36 hot-rolled steel plate with a minimum yield strength of 36,000 psi.
- Two-piece square base cover is optional.

### Anchor Bolts

- Poles are furnished with anchor bolts featuring zinc-plated double nuts and washers. Galvanized anchor bolts are optional.
- Anchor Bolts conform to ASTM F 1554-07a Grade 55 with a minimum yield strength of 55,000 PSI.

### Ground Lug

- Ground lug is standard.

### Duplex Receptacle

- Weatherproof duplex receptacle is optional.

### Ground Fault Circuit Interrupter

- Self-testing Ground fault circuit interrupter is optional.

### Finishes

- Every pole is provided with the DuraGrip Protection System and a 5-year limited warranty:
- When the top-of-the line DuraGrip Plus Protection System is selected, in addition to the DuraGrip Protection System, a non-porous, automotive-grade corrosion coating is applied to the lower portion of the pole interior sealing and further protecting it from corrosion. This option extends the limited warranty to 7 years.

### Determining The Luminaire/Pole Combination For Your Application:

- Select luminaire from luminaire ordering information.
- Select bracket configuration if required
- Determine EPA value from luminaire/bracket EPA chart

- Select Pole Height

- Select MPH to match wind speed in the application area (See windspeed maps).
- Confirm pole EPA equal to or exceeding value of luminaire/bracket EPA
- Consult factory for special wind load requirements and banner brackets.

### Pole Vibration Damper

- A pole vibration damper is recommended in open terrain areas of the country where low steady state winds are common.
- Non-tapered poles and lightly loaded poles are more susceptible to destructive vibration if a damper is not installed.

### Listings

- UL Listed
- BAA/TAA Compliant



# Steel Poles Square Straight

 Have questions? Call us at (800) 436-7800

Type : \_\_\_\_\_

## ORDERING GUIDE

**TYPICAL ORDER EXAMPLE: 4SQ B3 S11G 24 S PLP DGP**

| Pole Series   | Mounting Method  | Material  | Height <sup>2</sup>   | Mounting Configuration                             | Pole Finish                                | Options                             |
|---|--|---|-----------------------|--|--|-------------------------------------|
| <b>4SQ</b> - 4" x 4" Square Straight Pole (New Build) | <b>Bolt-On Mount<sup>1</sup></b> - See pole selection guide for patterns and fixture matches | <b>S11G</b> - 11 Ga. Steel<br>(4SQ/4SQU and<br>5SQ/5SQU Only) | 8'                    | <b>S</b> - Single/Parallel                         | <b>BRZ</b> - Bronze                        | <b>GA</b> - Galvanized Anchor Bolts |
| <b>5SQ</b> - 5" x 5" Square Straight Pole (New Build) | <b>B5</b> - 5" Traditional Drilling Pattern  | <b>10'</b>  | <b>D180</b> - Double  | <b>BLK</b> - Black                                 | <b>SF</b> - Single Flood <sup>3</sup>      |                                     |
| <b>6SQ</b> - 6" x 6" Square Straight Pole (New Build) | <b>B3</b> - 3" Reduced Pattern   | <b>12'</b>  | <b>D90</b> - Double   | <b>PLP</b> - Platinum Plus                         | <b>DF</b> - Double Flood <sup>3</sup>      |                                     |
| <b>4SQU</b> - 4" x 4" Square Straight Pole (Retrofit) | <b>B2</b> - 2" Low Profile Drilling Pattern  | <b>13'</b>  | <b>DN90</b> - Double  | <b>WHT</b> - White                                 | <b>DGP</b> - DuraGrip <sup>®</sup> Plus    |                                     |
| <b>5SQU</b> - 5" x 5" Square Straight Pole (Retrofit) | <b>B2R</b> - Raised 2" Low Profile Drilling Pattern <b>(LAL4 ONLY)</b>                       | <b>14'</b>  | <b>T90</b> - Triple   | <b>SVG</b> - Satin Verde Green                     | <b>LAB</b> - Less Anchor Bolts             |                                     |
| <b>6SQU</b> - 6" x 6" Square Straight Pole (Retrofit) |  | <b>15'</b>  | <b>TN120</b> - Triple | <b>GPT</b> - Graphite                              | <b>CRXX</b> - Conduit Raceway <sup>4</sup> |                                     |
|   |  | <b>16'</b>  | <b>Q90</b> - Quad     | <b>MSV</b> - Metallic Silver                       |  |                                     |
|   |  | <b>17'</b>  | <b>QN90</b> - Quad    | <b>BZA</b> - Alternate Bronze                      |  |                                     |
|   |  | <b>17'6"</b>  |                       | <b>GMG</b> - Gun Metal Gray                        |  |                                     |
|   |  | <b>18'</b>  |                       |  |  |                                     |
|   |  | <b>20'</b>  |                       |  |  |                                     |
|   |  | <b>22'</b>  |                       |  |  |                                     |
|   |  | <b>22'6"</b>  |                       |  |  |                                     |
|   |  | <b>23'</b>  |                       |  |  |                                     |
|   |  | <b>24'</b>  |                       |  |  |                                     |
|   |  | <b>25'</b>  |                       | <b>(Blank)</b> - Use with I for<br>Mounting Method |  |                                     |
|   |  | <b>26'</b>  |                       |  |  |                                     |
|   |  | <b>27'</b>  |                       |  |  |                                     |
|   |  | <b>28'</b>  |                       |  |  |                                     |
|   |  | <b>30'</b>  |                       |  |  |                                     |
|   |  | <b>32'</b>  |                       |  |  |                                     |
|   |  | <b>35'</b>  |                       |  |  |                                     |
|   |  | <b>39'</b>  |                       |  |  |                                     |



**Need more information?**  
[Click here for our glossary](#)

**Have additional questions?**  
Call us at (800) 436-7800



## ACCESSORY ORDERING INFORMATION

| Part Number      | Description  |
|------------------|--|
| <b>122559CLR</b> | 4BC - 4" Square Base Cover   |
| <b>122561CLR</b> | 5BC - 5" Square Base Cover   |
| <b>122563CLR</b> | 6BC - 6" Square Base Cover   |
| <b>132488CLR</b> | 5BC - 5' Square Universal Base Cover   |
| <b>131252CLR</b> | 6BC - 6' Square Universal Base Cover   |
| <b>122566CLR</b> | ER2 - Weatherproof Duplex Receptacle   |
| <b>122567CLR</b> | GFI - Ground Fault Circuit Interrupter   |
| <b>132336</b>    | MH5 - mounting Hole Plugs for use with 5" traditional drill pattern (3 set of 3 plugs) |
| <b>681126</b>    | MH3 - mounting Hole Plugs for use with 3" reduced drill pattern (3 set of 3 plugs)     |
| <b>725841</b>    | MH2 - Mounting Hole Plugs for use with 2" reduced drill pattern (3 sets of 3 plugs)    |
| <b>172539</b>    | Vibration Damper - 4" Square Pole (bolt-on mount only)                                 |
| <b>172538</b>    | Vibration Damper - 5" Square Pole (bolt-on mount only)                                 |
| <b>178361</b>    | Vibration Damper - 6" Square Pole (bolt-on mount only)                                 |

## ANCHOR BOLT KIT ORDERING INFORMATION

| Part Number           | Description                               |
|-----------------------|---|
| <b>AB KIT 122584</b>  | 4SQ S11G/S07G Anchor Bolts (Steel Plated) |
| <b>AB KIT 122609</b>  | 4SQ S11G/S07G Anchor Bolts (Galvanized)   |
| <b>AB KIT 1225850</b> | 5SQ S11G Anchor Bolts (Steel Plated)      |
| <b>AB KIT 122610</b>  | 5SQ S11G Anchor Bolts (Galvanized)        |
| <b>AB KIT 122586</b>  | 5SQ S07G Anchor Bolts (Steel Plated)      |
| <b>AB KIT 122611</b>  | 5SQ S07G Anchor Bolts (Galvanized)        |
| <b>AB KIT 122612</b>  | 6SQ S07G Anchor Bolts (Galvanized)        |

1 - See Area Light Brackets - 3" Reduced Drill Pattern and Area Light Brackets - 5" Traditional Drill Pattern Spec Sheets.

2 - Pole heights will have +/- 1/2" tolerance.

3 - See Flood Lighting Brackets section for choice of FBO brackets.

4 - CR selection must indicate required height and side of pole mounting location. Mounting template required at time of order.



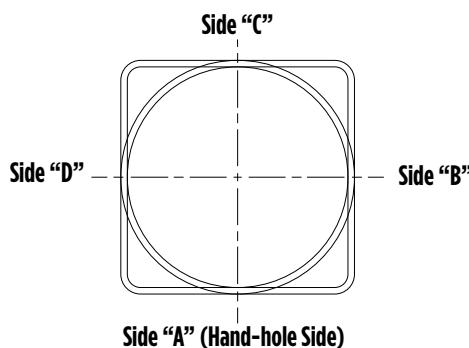
# Steel Poles Square Straight

Have questions? Call us at (800) 436-7800

Type : \_\_\_\_\_

## DRILLING LOCATIONS

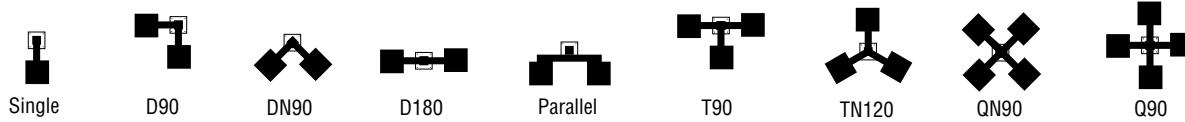
| Sides                    | A | B | C | D |
|--------------------------|---|---|---|---|
| <b>Hand-hole</b>         | X |   |   |   |
| <b>Single</b>            | X |   |   |   |
| <b>D180</b>              |   | X |   | X |
| <b>D90</b>               | X |   |   | X |
| <b>DN90<sup>1</sup></b>  |   |   |   |   |
| <b>T90</b>               | X | X |   | X |
| <b>TN120<sup>2</sup></b> |   |   |   |   |
| <b>Q90</b>               | X | X | X | X |
| <b>QN90<sup>3</sup></b>  |   |   |   |   |
| <b>Single FBO</b>        | X |   |   |   |
| <b>Double FBO</b>        |   | X |   | X |



- 1 - Two locations will be 45° to the left and right of Side A.
- 2 - Other two locations will be 120° to the left and right of Side A.
- 3 - Two locations will be 45° to the left and right of Side A and two locations will be 135° to the left and right of Side A.

Consult factory for custom variations. Standard SF and DF pole preparations are located 3/4 of the height of the pole from the base, except on 20' poles. Maximum height for SF and DF pole preparations on 20' poles is 13' from the base.

## Fixture Configurations



# Steel Poles Square Straight

Have questions? Call us at (800) 436-7800

Type : \_\_\_\_\_

## BOLT CIRCLE

### STANDARD BASEPLATE

4" (102mm) square  
10-1/8" (257mm) sq.



11" (279mm) Dia. Bolt Circle

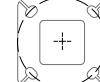
5" (127mm) square  
10-1/8" (257mm) sq.



5" (127mm) square  
10-1/8" (257mm) sq.



6" (152mm) square  
12" (305mm) sq.



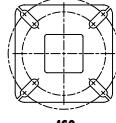
12" (305mm) Dia. Bolt Circle

| Bolt Circle Designator               | B                                      | C                                      | D                                    | J                                    |
|--------------------------------------|--|--|--------------------------------------|--------------------------------------|
| Bolt Circle                          | 8"-11" Slotted (203mm-279mm)           | 9"-11" Slotted (229mm-279mm)           | 9"-11" Slotted (229mm-279mm)         | 12" Slotted (305mm)                  |
| Anchor Bolt Size                     | 3/4" x 24" (19mm x 609mm)              | 3/4" x 24" (19mm x 609mm)              | 1" x 30" (25mm x 762mm)              | 1" x 30" (25mm x 762mm)              |
| Anchor Bolt Projection               | 3-1/4" (83mm)                          | 3-1/4" (83mm)                          | 4" (102mm)                           | 4" (102mm)                           |
| Base Plate Opening for Wireway Entry | 3-3/4" (92mm)                          | 4-3/4" (121mm)                         | 4-5/8" (117mm)                       | 5-5/8" (143mm)                       |
| Base Plate Dimensions                | 10-1/8" sq. x 3/4" thk. (257mm x 19mm) | 10-1/8" sq. x 3/4" thk. (257mm x 19mm) | 10-1/8" sq. x 1" thk. (257mm x 25mm) | 12" sq. x 1-1/8" thk. (305mm x 29mm) |
| Pole Gauge                           | 11                                     | 11                                     | 7                                    | 7                                    |

Note: Base plate illustrations may change without notice. Do not use for setting anchor bolts. Consult factory for the appropriate anchor bolt template.

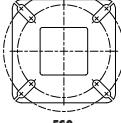
### UNIVERSAL BASEPLATE

4" (102mm) square  
10.5" (267mm) sq.



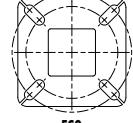
4SQ

5" (127mm) square  
11.125" (283mm) sq.



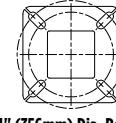
5SQ

5" (127mm) square  
11.75" (298mm) sq.



5SQ

6" (152mm) square  
12-1/2" (318mm) sq.



14" (356mm) Dia. Bolt Circle

| Bolt Circle Designator               | E  | F  | G                                      | H  |
|--------------------------------------|--|--|--|--|
| Bolt Circle                          | Slotted 9"-12"                           | Slotted 10-13"                           | Slotted 10-13"                         | Slotted 11"-14" (279mm-356mm)            |
| Anchor Bolt Size                     | 3/4" x 24" (19mm x 609 mm)               | 3/4" x 24" (19mm x 609 mm)               | 1" x 30" (25mm x 762mm)                | 1" x 30" (25mm x 762mm)                  |
| Anchor Bolt Projection               | 3-1/4" (83 mm)                           | 3-1/4" (83 mm)                           | 4" (102 mm)                            | 4" (102mm)                               |
| Base Plate Opening for Wireway Entry | 3-3/4" (92mm)                            | 4-3/4" (121mm)                           | 4-5/8" (113 mm)                        | 5-5/8" (143mm)                           |
| Base Plate Dimensions                | 10-1/2" sq. x 3/4" thk. (267 mm x 19 mm) | 11-1/8" sq. x 3/4" thk. (283 mm x 19 mm) | 11-3/4" sq. x 1" thk. (298 mm x 25 mm) | 12 1/2" sq. x 1 1/8" thk. (318mm x 29mm) |
| Pole Gauge                           | 11                                       | 11                                       | 7                                      | 7  |

Note: Base plate illustrations may change without notice. Do not use for setting anchor bolts. Consult factory for the appropriate anchor bolt template.

1- Full Galvanized option is 1" x 30" straight headed anchor bolt. Contact factory for questions



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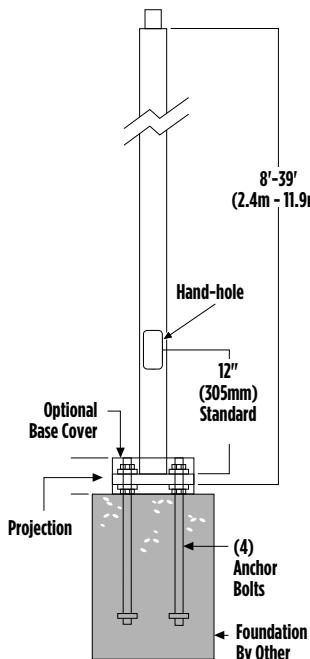
# Steel Poles Square Straight

Have questions? Call us at (800) 436-7800

Type : \_\_\_\_\_

## PRODUCT DIMENSIONS

SOT -  
N=2-3/8" (60mm) O.D. x 4-3/4" (121mm) Tenon

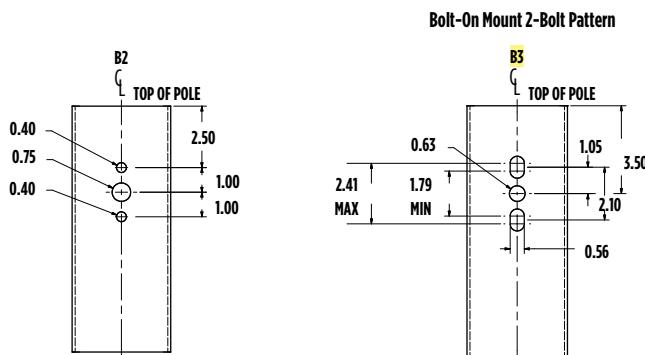


SF -  
Single Flood  
Pole Preparation

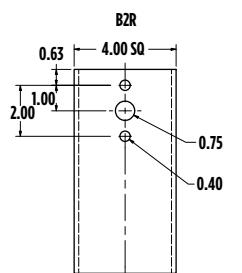


### SHIPPING WEIGHTS

|  |                    |
|--|--------------------|
| 4"(102mm) sq. 11 Ga. is approximately    | 7.50 lbs./ft.      |
| 4"(102mm) sq. 07 Ga. is approximately    | 10.00 lbs./ft.     |
| 5"(127mm) sq. 11 Ga. is approximately    | 9.00 lbs./ft.      |
| 5"(127mm) sq. 07 Ga. is approximately    | 12.50 lbs./ft.     |
| 6"(152mm) sq. 07 Ga. is approximately    | 15.40 lbs./ft.     |
| Anchor Bolts (3/4" x 24") (19mm x 609mm) | 15 lbs. (7kg)/set  |
| Anchor Bolts (1" x 30") (25mm x 762mm)   | 30 lbs. (14kg)/set |



ONLY FOR USE WITH LAL4 PRODUCT  
B2R- Raised 2" low profile drilling pattern



# Steel Poles Square Straight

 Have questions? Call us at (800) 436-7800

Type : \_\_\_\_\_

## WIND SPEED

### EPA Information

All LSI Industries' poles are guaranteed to meet the EPA requirements listed. LSI Industries is not responsible if a pole order has a lower EPA rating than the indicated wind-loading zone where the pole will be located.

CAUTION: This guarantee does not apply if the pole/bracket/fixture combination is used to support any other items such as flags, pennants, or signs, which would add stress to the pole. LSI Industries cannot accept responsibility for harm or damage caused in these situations.

NOTE: Pole calculations include a 1.3 gust factor over steady wind velocity. Example: poles designed to withstand 80 MPH steady wind will withstand gusts to 104 MPH. EPAs are for locations 100 miles away from hurricane ocean lines. Consult LSI for other areas. Note: Hurricane ocean lines are the Atlantic and Gulf of Mexico coastal areas. For applications in Florida or Canada, consult factory.

| POLE <sup>1</sup>           | Mtg. Height Length (ft) | Wall Thick (ga) | BOLT CIRCLE |           |                      | EPA     |         |         |         |         |         |         |         |         |
|-----------------------------|-------------------------|-----------------|-------------|-----------|----------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|                             |                         |                 | Designator  | Dia. (in) | Anchor bolt Dia {in} | 110 MPH | 115 MPH | 120 MPH | 130 MPH | 140 MPH | 150 MPH | 160 MPH | 170 MPH | 180 MPH |
| 4" x 11-ga x 12'            | 12                      | 11              | B           | 8" - 11"  | 0.75                 | 13.9    | 12.5    | 11.3    | 9.2     | 7.6     | 6.3     | 5.2     | 4.3     | 3.6     |
| 4" x 11-ga x 14'            | 14                      | 11              | B           | 8" - 11"  | 0.75                 | 10.7    | 9.5     | 8.5     | 6.8     | 5.4     | 4.4     | 3.5     | 2.7     | 2.1     |
| 4" x 11-ga x 16'            | 16                      | 11              | B           | 8" - 11"  | 0.75                 | 8.2     | 7.2     | 6.4     | 4.9     | 3.8     | 2.9     | 2.1     | 1.5     | 1.0     |
| 4" x 11-ga x 18'            | 18                      | 11              | B           | 8" - 11"  | 0.75                 | 6.3     | 5.4     | 4.7     | 3.4     | 2.4     | 1.6     | 1.0     | 0.4     | n/a     |
| 4" x 11-ga x 20'            | 20                      | 11              | B           | 8" - 11"  | 0.75                 | 4.6     | 3.9     | 3.2     | 2.1     | 1.2     | 0.6     | n/a     | n/a     | n/a     |
| 4" x 11-ga x 22'            | 22                      | 11              | B           | 8" - 11"  | 0.75                 | 7.6     | 6.6     | 5.7     | 4.2     | 3.0     | 2.0     | 1.2     | 0.5     | n/a     |
| 4" x 11-ga x 24'            | 24                      | 11              | B           | 8" - 11"  | 0.75                 | 6.0     | 5.1     | 4.3     | 2.9     | 1.8     | 0.9     | n/a     | n/a     | n/a     |
| 4" x 11-ga x 26'            | 26                      | 11              | B           | 8" - 11"  | 0.75                 | 4.6     | 3.7     | 3.0     | 1.7     | 0.7     | n/a     | n/a     | n/a     | n/a     |
| 4" x 7-ga x 14'             | 14                      | 7               | B           | 8" - 11"  | 0.75                 | 18.3    | 16.4    | 14.9    | 12.2    | 10.2    | 8.5     | 7.1     | 5.9     | 5.0     |
| 4" x 7-ga x 16'             | 16                      | 7               | B           | 8" - 11"  | 0.75                 | 14.7    | 13.2    | 11.8    | 9.6     | 7.8     | 6.3     | 5.2     | 4.2     | 3.4     |
| 4" x 7-ga x 18'             | 18                      | 7               | B           | 8" - 11"  | 0.75                 | 11.9    | 10.5    | 9.3     | 7.4     | 5.9     | 4.6     | 3.6     | 2.8     | 2.1     |
| 4" x 7-ga x 20'             | 20                      | 7               | B           | 8" - 11"  | 0.75                 | 9.6     | 8.4     | 7.4     | 5.7     | 4.3     | 3.2     | 2.3     | 1.6     | 0.9     |
| 4" x 7-ga x 22'             | 22                      | 7               | B           | 8" - 11"  | 0.75                 | 7.7     | 6.6     | 5.7     | 4.2     | 3.0     | 2.0     | 1.2     | 0.5     | n/a     |
| 4" x 7-ga x 24'             | 24                      | 7               | B           | 8" - 11"  | 0.75                 | 6.0     | 5.1     | 4.3     | 2.9     | 1.8     | 0.9     | n/a     | n/a     | n/a     |
| 4" x 7-ga x 26'             | 26                      | 7               | B           | 8" - 11"  | 0.75                 | 4.6     | 3.7     | 3.0     | 1.7     | 0.7     | n/a     | n/a     | n/a     | n/a     |
| 4" x 7-ga x 28 <sup>2</sup> | 28                      | 7               | B           | 8" - 11"  | 0.75                 | 3.3     | 2.5     | 1.8     | 0.7     | n/a     | n/a     | n/a     | n/a     | n/a     |
| 4" x 7-ga x 30 <sup>2</sup> | 30                      | 7               | B           | 8" - 11"  | 0.75                 | 2.2     | 1.4     | 0.8     | n/a     | n/a     | n/a     | n/a     | n/a     | n/a     |
| 5" x 11-ga x 14'            | 14                      | 11              | C           | 9" - 11"  | 0.75                 | 17.4    | 15.7    | 14.1    | 11.5    | 9.3     | 7.7     | 6.3     | 5.2     | 4.2     |
| 5" x 11-ga x 16'            | 16                      | 11              | C           | 9" - 11"  | 0.75                 | 13.8    | 12.3    | 10.9    | 8.7     | 6.9     | 5.5     | 4.3     | 3.3     | 2.5     |
| 5" x 11-ga x 18'            | 18                      | 11              | C           | 9" - 11"  | 0.75                 | 10.8    | 9.6     | 8.4     | 6.5     | 4.9     | 3.7     | 2.6     | 1.8     | 1.1     |
| 5" x 11-ga x 20'            | 20                      | 11              | C           | 9" - 11"  | 0.75                 | 8.5     | 7.3     | 6.3     | 4.6     | 3.2     | 2.1     | 1.2     | 0.5     | n/a     |
| 5" x 11-ga x 22'            | 22                      | 11              | C           | 9" - 11"  | 0.75                 | 10.9    | 9.5     | 8.3     | 6.2     | 4.5     | 3.2     | 2.1     | 1.2     | 0.5     |
| 5" x 11-ga x 24'            | 24                      | 11              | C           | 9" - 11"  | 0.75                 | 8.8     | 7.5     | 6.4     | 4.5     | 3.0     | 1.8     | 0.8     | n/a     | n/a     |
| 5" x 11-ga x 26'            | 26                      | 11              | C           | 9" - 11"  | 0.75                 | 6.8     | 5.7     | 4.6     | 3.0     | 1.6     | 0.6     | n/a     | n/a     | n/a     |
| 5" x 11-ga x 28'            | 28                      | 11              | C           | 9" - 11"  | 0.75                 | 5.2     | 4.1     | 3.2     | 1.6     | 0.4     | n/a     | n/a     | n/a     | n/a     |
| 5" x 11-ga x 30'            | 30                      | 11              | C           | 9" - 11"  | 0.75                 | 3.6     | 2.7     | 1.8     | 0.4     | n/a     | n/a     | n/a     | n/a     | n/a     |
| 5" x 7-ga x 20'             | 20                      | 7               | D           | 9" - 11"  | 1.00                 | 21.6    | 19.3    | 17.3    | 14.0    | 11.3    | 9.2     | 7.4     | 6.0     | 4.8     |
| 5" x 7-ga x 22'             | 22                      | 7               | D           | 9" - 11"  | 1.00                 | 20.7    | 18.6    | 16.6    | 13.3    | 10.7    | 8.5     | 6.8     | 5.4     | 4.2     |
| 5" x 7-ga x 24'             | 24                      | 7               | D           | 9" - 11"  | 1.00                 | 17.7    | 15.6    | 13.8    | 10.8    | 8.5     | 6.6     | 5.0     | 3.7     | 2.6     |
| 5" x 7-ga x 26'             | 26                      | 7               | D           | 9" - 11"  | 1.00                 | 14.9    | 13.1    | 11.4    | 8.8     | 6.6     | 4.9     | 3.5     | 2.3     | 1.3     |
| 5" x 7-ga x 28'             | 28                      | 7               | D           | 9" - 11"  | 1.00                 | 12.5    | 10.9    | 9.4     | 6.9     | 4.9     | 3.4     | 2.1     | 1.0     | n/a     |
| 5" x 7-ga x 30'             | 30                      | 7               | D           | 9" - 11"  | 1.00                 | 10.3    | 8.9     | 7.5     | 5.2     | 3.4     | 2.0     | 0.8     | n/a     | n/a     |
| 5" x 7-ga x 35'             | 35                      | 7               | D           | 9" - 11"  | 1.00                 | 6.0     | 4.8     | 3.6     | 1.8     | n/a     | n/a     | n/a     | n/a     | n/a     |
| 6" x 7-ga x 24'             | 24                      | 7               | J           | 12"       | 1.00                 | 18.6    | 16.4    | 14.3    | 11.2    | 8.6     | 6.5     | 4.8     | 3.4     | 2.2     |
| 6" x 7-ga x 26'             | 26                      | 7               | J           | 12"       | 1.00                 | 15.6    | 13.4    | 11.7    | 8.8     | 6.5     | 4.6     | 3.0     | 1.8     | 0.7     |
| 6" x 7-ga x 28'             | 28                      | 7               | J           | 12"       | 1.00                 | 12.9    | 10.9    | 9.3     | 6.7     | 4.6     | 2.8     | 1.5     | n/a     | n/a     |
| 6" x 7-ga x 30'             | 30                      | 7               | J           | 12"       | 1.00                 | 10.4    | 8.8     | 7.3     | 4.8     | 2.9     | 1.3     | n/a     | n/a     | n/a     |
| 6" x 7-ga x 32'             | 32                      | 7               | J           | 12"       | 1.00                 | 8.3     | 6.8     | 5.5     | 3.1     | 1.3     | n/a     | n/a     | n/a     | n/a     |
| 6" x 7-ga x 34'             | 34                      | 7               | J           | 12"       | 1.00                 | 6.5     | 5.0     | 3.7     | 1.6     | n/a     | n/a     | n/a     | n/a     | n/a     |
| 6" x 7-ga x 35'             | 35                      | 7               | J           | 12"       | 1.00                 | 5.5     | 4.2     | 2.9     | 0.9     | n/a     | n/a     | n/a     | n/a     | n/a     |
| 6" x 7-ga x 39'             | 39                      | 7               | J           | 12"       | 1.00                 | 2.3     | 1.0     | n/a     |



# Steel Poles Square Straight

Have questions? Call us at (800) 436-7800

Type : \_\_\_\_\_

## WIND SPEED

| POLE <sup>1</sup> | Mtg. Height Length (ft) | Wall Thick (ga) | BOLT CIRCLE |           |                      | EPA     |         |         |         |         |         |         |         |         |
|-------------------|-------------------------|-----------------|-------------|-----------|----------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|                   |                         |                 | Designator  | Dia. (in) | Anchor Bolt Dia (in) | 110 MPH | 115 MPH | 120 MPH | 130 MPH | 140 MPH | 150 MPH | 160 MPH | 170 MPH | 180 MPH |
| 5" x 11-ga x 14'  | 14                      | 11              | F           | 11"       | 0.75                 | 17.6    | 15.8    | 14.2    | 11.5    | 9.4     | 7.7     | 6.3     | 5.2     | 4.3     |
| 5" x 11-ga x 14'  | 14                      | 11              | F           | 13"       | 0.75                 | 17.6    | 15.8    | 14.2    | 11.5    | 9.4     | 7.7     | 6.3     | 5.2     | 4.3     |
| 5" x 11-ga x 16'  | 16                      | 11              | F           | 11"       | 0.75                 | 13.9    | 12.2    | 11.0    | 8.8     | 7.0     | 5.5     | 4.3     | 3.4     | 2.5     |
| 5" x 11-ga x 16'  | 16                      | 11              | F           | 13"       | 0.75                 | 13.9    | 12.2    | 11.0    | 8.8     | 7.0     | 5.5     | 4.3     | 3.4     | 2.5     |
| 5" x 11-ga x 18'  | 18                      | 11              | F           | 11"       | 0.75                 | 11.0    | 9.6     | 8.4     | 6.5     | 5.0     | 3.7     | 2.7     | 1.8     | 1.1     |
| 5" x 11-ga x 18'  | 18                      | 11              | F           | 13"       | 0.75                 | 11.0    | 9.6     | 8.4     | 6.5     | 5.0     | 3.7     | 2.7     | 1.8     | 1.1     |
| 5" x 11-ga x 20'  | 20                      | 11              | F           | 11"       | 0.75                 | 8.6     | 7.4     | 6.4     | 4.6     | 3.3     | 2.2     | 1.3     | 0.5     | -       |
| 5" x 11-ga x 20'  | 20                      | 11              | F           | 13"       | 0.75                 | 8.6     | 7.4     | 6.4     | 4.6     | 3.3     | 2.2     | 1.3     | 0.5     | -       |
| 5" x 11-ga x 22'  | 22                      | 11              | F           | 11"       | 0.75                 | 12.7    | 11.1    | 9.6     | 7.4     | 5.6     | 4.1     | 3.0     | 2.0     | 1.1     |
| 5" x 11-ga x 22'  | 22                      | 11              | F           | 12"       | 0.75                 | 10.3    | 8.9     | 7.7     | 5.7     | 4.1     | 2.8     | 1.8     | 0.9     | -       |
| 5" x 11-ga x 22'  | 22                      | 11              | F           | 13"       | 0.75                 | 8.6     | 7.4     | 6.4     | 4.6     | 3.1     | 2.0     | 1.1     | -       | -       |
| 5" x 11-ga x 24'  | 24                      | 11              | F           | 11"       | 0.75                 | 10.2    | 8.9     | 7.6     | 5.6     | 4.0     | 2.6     | 1.6     | 0.7     | -       |
| 5" x 11-ga x 24'  | 24                      | 11              | F           | 12"       | 0.75                 | 8.0     | 6.9     | 5.8     | 4.0     | 2.6     | 1.5     | 0.5     | -       | -       |
| 5" x 11-ga x 24'  | 24                      | 11              | F           | 13"       | 0.75                 | 6.7     | 5.5     | 4.6     | 3.0     | 1.7     | 0.7     | -       | -       | -       |
| 5" x 11-ga x 26'  | 26                      | 11              | F           | 11"       | 0.75                 | 8.1     | 6.9     | 5.8     | 4.0     | 2.5     | 1.3     | -       | -       | -       |
| 5" x 11-ga x 26'  | 26                      | 11              | F           | 12"       | 0.75                 | 6.2     | 5.1     | 4.1     | 2.6     | 1.3     | -       | -       | -       | -       |
| 5" x 11-ga x 26'  | 26                      | 11              | F           | 13"       | 0.75                 | 5.0     | 4.0     | 3.1     | 1.6     | 0.5     | -       | -       | -       | -       |
| 5" x 11-ga x 28'  | 28                      | 11              | F           | 11"       | 0.75                 | 6.3     | 5.2     | 4.3     | 2.5     | 1.1     | -       | -       | -       | -       |
| 5" x 11-ga x 28'  | 28                      | 11              | F           | 12"       | 0.75                 | 4.6     | 3.6     | 2.7     | 1.2     | -       | -       | -       | -       | -       |
| 5" x 11-ga x 28'  | 28                      | 11              | F           | 13"       | 0.75                 | 3.4     | 2.5     | 1.7     | -       | -       | -       | -       | -       | -       |
| 5" x 11-ga x 30'  | 30                      | 11              | F           | 11"       | 0.75                 | 4.7     | 3.7     | 2.8     | 1.2     | -       | -       | -       | -       | -       |
| 5" x 11-ga x 30'  | 30                      | 11              | F           | 12"       | 0.75                 | 3.1     | 2.2     | 1.4     | -       | -       | -       | -       | -       | -       |
| 5" x 11-ga x 30'  | 30                      | 11              | F           | 13"       | 0.75                 | 2.0     | 1.2     | 0.5     | -       | -       | -       | -       | -       | -       |
| 5" x 7-ga x 20'   | 20                      | 7               | G           | 11"       | 0.75                 | 19.0    | 17.0    | 15.0    | 12.2    | 9.7     | 7.8     | 6.2     | 5.0     | 3.8     |
| 5" x 7-ga x 20'   | 20                      | 7               | G           | 12"       | 0.75                 | 21.4    | 19.1    | 17.1    | 13.8    | 11.2    | 9.1     | 7.3     | 5.9     | 4.7     |
| 5" x 7-ga x 20'   | 20                      | 7               | G           | 13"       | 0.75                 | 21.4    | 19.2    | 17.2    | 13.9    | 11.3    | 9.2     | 7.4     | 6.0     | 4.8     |
| 5" x 7-ga x 20'   | 20                      | 7               | G           | 11"       | 1                    | 21.7    | 19.4    | 17.4    | 14.0    | 11.4    | 9.3     | 7.5     | 6.0     | 4.8     |
| 5" x 7-ga x 20'   | 20                      | 7               | G           | 13"       | 1                    | 21.7    | 19.4    | 17.4    | 14.0    | 11.4    | 9.3     | 7.5     | 6.0     | 4.8     |
| 5" x 7-ga x 22'   | 22                      | 7               | G           | 11"       | 0.75                 | 16.0    | 14.1    | 12.5    | 9.8     | 7.6     | 5.9     | 4.4     | 3.3     | 2.3     |
| 5" x 7-ga x 22'   | 22                      | 7               | G           | 12"       | 0.75                 | 17.7    | 15.9    | 14.2    | 11.2    | 8.7     | 7.0     | 5.4     | 4.1     | 3.0     |
| 5" x 7-ga x 22'   | 22                      | 7               | G           | 13"       | 0.75                 | 19.9    | 17.3    | 15.6    | 12.6    | 10.0    | 8.0     | 6.3     | 5.0     | 3.8     |
| 5" x 7-ga x 22'   | 22                      | 7               | G           | 11"       | 1                    | 21.0    | 18.7    | 16.7    | 13.4    | 10.6    | 8.5     | 6.8     | 5.4     | 4.2     |
| 5" x 7-ga x 22'   | 22                      | 7               | G           | 12"       | 1                    | 23.4    | 20.6    | 18.4    | 15.0    | 12.2    | 9.9     | 8.0     | 6.4     | 5.1     |
| 5" x 7-ga x 22'   | 22                      | 7               | G           | 13"       | 1                    | 21.3    | 18.8    | 17.0    | 13.7    | 11.0    | 8.8     | 7.0     | 5.6     | 4.3     |
| 5" x 7-ga x 24'   | 24                      | 7               | G           | 11"       | 0.75                 | 13.3    | 11.6    | 10.0    | 7.7     | 5.7     | 4.2     | 2.9     | 1.9     | 1.0     |
| 5" x 7-ga x 24'   | 24                      | 7               | G           | 12"       | 0.75                 | 15.0    | 13.0    | 11.6    | 8.9     | 6.8     | 5.1     | 3.8     | 2.6     | 1.7     |
| 5" x 7-ga x 24'   | 24                      | 7               | G           | 13"       | 0.75                 | 16.6    | 14.6    | 12.9    | 10.2    | 8.0     | 6.1     | 4.6     | 3.3     | 2.3     |
| 5" x 7-ga x 24'   | 24                      | 7               | G           | 11"       | 1                    | 17.5    | 15.7    | 13.9    | 10.9    | 8.6     | 6.7     | 5.0     | 3.7     | 2.7     |
| 5" x 7-ga x 24'   | 24                      | 7               | G           | 12"       | 1                    | 20.0    | 17.4    | 15.4    | 12.3    | 9.9     | 7.8     | 6.0     | 4.7     | 3.5     |
| 5" x 7-ga x 24'   | 24                      | 7               | G           | 13"       | 1                    | 18.1    | 16.0    | 14.2    | 11.0    | 8.7     | 6.7     | 5.3     | 3.9     | 2.8     |
| 5" x 7-ga x 26'   | 26                      | 7               | G           | 11"       | 0.75                 | 10.9    | 9.3     | 8.0     | 5.9     | 4.1     | 2.7     | 1.6     | 0.6     | -       |
| 5" x 7-ga x 26'   | 26                      | 7               | G           | 12"       | 0.75                 | 12.4    | 10.9    | 9.5     | 7.0     | 5.1     | 3.6     | 2.3     | 1.3     | -       |
| 5" x 7-ga x 26'   | 26                      | 7               | G           | 13"       | 0.75                 | 14.0    | 12.3    | 10.7    | 8.1     | 6.0     | 4.4     | 3.1     | 2.0     | 1.0     |
| 5" x 7-ga x 26'   | 26                      | 7               | G           | 11"       | 1                    | 15.0    | 13.2    | 11.5    | 8.8     | 6.7     | 4.9     | 3.5     | 2.3     | 1.3     |

# Steel Poles Square Straight

 Have questions? Call us at (800) 436-7800

Type : \_\_\_\_\_

## WIND SPEED

| POLE <sup>1</sup> | Mtg. Height Length (ft) | Wall Thick (ga) | BOLT CIRCLE |           |                      | EPA     |         |         |         |         |         |         |         |         |
|-------------------|-------------------------|-----------------|-------------|-----------|----------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|                   |                         |                 | Designator  | Dia. (in) | Anchor Bolt Dia (in) | 110 MPH | 115 MPH | 120 MPH | 130 MPH | 140 MPH | 150 MPH | 160 MPH | 170 MPH | 180 MPH |
| 5" x 7-ga x 26'   | 26                      | 7               | G           | 12"       | 1                    | 17.0    | 14.8    | 13.0    | 10.2    | 7.9     | 6.0     | 4.4     | 3.1     | 2.1     |
| 5" x 7-ga x 26'   | 26                      | 7               | G           | 13"       | 1                    | 15.3    | 13.5    | 11.8    | 9.0     | 6.8     | 5.0     | 3.6     | 2.5     | 1.4     |
| 5" x 7-ga x 28'   | 28                      | 7               | G           | 11"       | 0.75                 | 8.9     | 7.4     | 6.3     | 4.3     | 2.7     | 1.4     | -       | -       | -       |
| 5" x 7-ga x 28'   | 28                      | 7               | G           | 12"       | 0.75                 | 10.2    | 8.8     | 7.5     | 5.3     | 3.5     | 2.1     | 1.0     | -       | -       |
| 5" x 7-ga x 28'   | 28                      | 7               | G           | 13"       | 0.75                 | 11.8    | 10.2    | 8.8     | 6.4     | 4.5     | 3.0     | 1.7     | 0.7     | -       |
| 5" x 7-ga x 28'   | 28                      | 7               | G           | 11"       | 1                    | 12.5    | 10.9    | 9.5     | 7.0     | 5.0     | 3.3     | 2.1     | 1.0     | -       |
| 5" x 7-ga x 28'   | 28                      | 7               | G           | 12"       | 1                    | 14.2    | 12.4    | 11.0    | 8.2     | 6.0     | 4.3     | 3.0     | 1.7     | 0.8     |
| 5" x 7-ga x 28'   | 28                      | 7               | G           | 13"       | 1                    | 12.9    | 11.0    | 9.7     | 7.2     | 5.2     | 3.6     | 2.2     | 1.1     | -       |
| 5" x 7-ga x 30'   | 30                      | 7               | G           | 11"       | 0.75                 | 7.0     | 5.8     | 4.7     | 2.8     | 1.3     | -       | -       | -       | -       |
| 5" x 7-ga x 30'   | 30                      | 7               | G           | 12"       | 0.75                 | 8.4     | 7.0     | 5.8     | 3.8     | 2.2     | 0.9     | -       | -       | -       |
| 5" x 7-ga x 30'   | 30                      | 7               | G           | 13"       | 0.75                 | 9.7     | 8.2     | 7.0     | 4.8     | 3.0     | 1.6     | 0.5     | -       | -       |
| 5" x 7-ga x 30'   | 30                      | 7               | G           | 11"       | 1                    | 10.4    | 8.8     | 7.6     | 5.3     | 3.4     | 2.0     | 0.8     | -       | -       |
| 5" x 7-ga x 30'   | 30                      | 7               | G           | 12"       | 1                    | 12.0    | 10.3    | 9.0     | 6.4     | 4.4     | 2.9     | 1.6     | 0.5     | -       |
| 5" x 7-ga x 30'   | 30                      | 7               | G           | 13"       | 1                    | 10.6    | 9.1     | 7.7     | 5.5     | 3.6     | 2.1     | 1.0     | -       | -       |
| 5" x 7-ga x 35'   | 35                      | 7               | G           | 11"       | 0.75                 | 3.2     | 2.2     | 1.2     | -       | -       | -       | -       | -       | -       |
| 5" x 7-ga x 35'   | 35                      | 7               | G           | 12"       | 0.75                 | 4.4     | 3.2     | 2.2     | 0.5     | -       | -       | -       | -       | -       |
| 5" x 7-ga x 35'   | 35                      | 7               | G           | 13"       | 0.75                 | 5.5     | 4.2     | 3.1     | 1.3     | -       | -       | -       | -       | -       |
| 5" x 7-ga x 35'   | 35                      | 7               | G           | 11"       | 1                    | 6.0     | 4.8     | 3.6     | 1.8     | -       | -       | -       | -       | -       |
| 5" x 7-ga x 35'   | 35                      | 7               | G           | 12"       | 1                    | 7.3     | 6.0     | 4.8     | 2.7     | 1.1     | -       | -       | -       | -       |
| 5" x 7-ga x 35'   | 35                      | 7               | G           | 13"       | 1                    | 6.3     | 5.0     | 3.8     | 1.9     | -       | -       | -       | -       | -       |
| 6" x 7-ga x 24'   | 24                      | 7               | H           | 11"       | 1                    | 16.5    | 14.4    | 12.6    | 9.6     | 7.2     | 5.3     | 3.8     | 2.5     | 1.4     |
| 6" x 7-ga x 24'   | 24                      | 7               | H           | 12-1/2"   | 1                    | 19.8    | 17.5    | 15.4    | 12.0    | 9.2     | 7.0     | 5.3     | 3.8     | 2.7     |
| 6" x 7-ga x 24'   | 24                      | 7               | H           | 14"       | 1                    | 23.0    | 20.5    | 18.0    | 14.3    | 11.2    | 8.9     | 6.9     | 5.3     | 3.8     |
| 6" x 7-ga x 26'   | 26                      | 7               | H           | 11"       | 1                    | 13.7    | 11.8    | 10.2    | 7.5     | 5.3     | 3.6     | 2.1     | 1.0     | -       |
| 6" x 7-ga x 26'   | 26                      | 7               | H           | 12-1/2"   | 1                    | 16.5    | 14.6    | 12.6    | 9.6     | 7.0     | 5.2     | 3.6     | 2.2     | 1.1     |
| 6" x 7-ga x 26'   | 26                      | 7               | H           | 14"       | 1                    | 19.6    | 17.3    | 15.2    | 11.7    | 8.9     | 6.7     | 5.0     | 3.5     | 2.2     |
| 6" x 7-ga x 28'   | 28                      | 7               | H           | 11"       | 1                    | 11.0    | 9.3     | 7.8     | 5.5     | 3.5     | 1.9     | 0.6     | -       | -       |
| 6" x 7-ga x 28'   | 28                      | 7               | H           | 12-1/2"   | 1                    | 13.8    | 12.0    | 10.2    | 7.5     | 5.2     | 3.4     | 1.9     | 0.7     | -       |
| 6" x 7-ga x 28'   | 28                      | 7               | H           | 14"       | 1                    | 16.4    | 14.5    | 12.5    | 9.4     | 6.9     | 4.7     | 3.2     | 1.8     | 0.7     |
| 6" x 7-ga x 30'   | 30                      | 7               | H           | 11"       | 1                    | 9.0     | 7.3     | 6.0     | 3.6     | 1.9     | 0.5     | -       | -       | -       |
| 6" x 7-ga x 30'   | 30                      | 7               | H           | 12-1/2"   | 1                    | 11.4    | 9.6     | 8.0     | 5.5     | 3.4     | 1.7     | -       | -       | -       |
| 6" x 7-ga x 30'   | 30                      | 7               | H           | 14"       | 1                    | 14.0    | 12.0    | 10.0    | 7.2     | 5.0     | 3.2     | 1.6     | -       | -       |
| 6" x 7-ga x 32'   | 32                      | 7               | H           | 11"       | 1                    | 7.0     | 5.5     | 4.2     | 2.0     | -       | -       | -       | -       | -       |
| 6" x 7-ga x 32'   | 32                      | 7               | H           | 12-1/2"   | 1                    | 9.2     | 7.6     | 6.0     | 3.8     | 1.8     | -       | -       | -       | -       |
| 6" x 7-ga x 32'   | 32                      | 7               | H           | 14"       | 1                    | 11.4    | 9.7     | 8.0     | 5.4     | 3.2     | 1.6     | -       | -       | -       |
| 6" x 7-ga x 34'   | 34                      | 7               | H           | 11"       | 1                    | 5.1     | 3.7     | 2.5     | 0.6     | -       | -       | -       | -       | -       |
| 6" x 7-ga x 34'   | 34                      | 7               | H           | 12-1/2"   | 1                    | 7.2     | 5.6     | 4.4     | 2.2     | -       | -       | -       | -       | -       |
| 6" x 7-ga x 34'   | 34                      | 7               | H           | 14"       | 1                    | 9.3     | 7.6     | 6.2     | 3.6     | 1.7     | -       | -       | -       | -       |
| 6" x 7-ga x 35'   | 35                      | 7               | H           | 11"       | 1                    | 4.2     | 3.0     | 1.8     | -       | -       | -       | -       | -       | -       |
| 6" x 7-ga x 35'   | 35                      | 7               | H           | 12-1/2"   | 1                    | 6.2     | 4.8     | 3.6     | 1.4     | -       | -       | -       | -       | -       |
| 6" x 7-ga x 35'   | 35                      | 7               | H           | 14"       | 1                    | 8.2     | 6.6     | 5.2     | 2.9     | 1.0     | -       | -       | -       | -       |
| 6" x 7-ga x 39'   | 39                      | 7               | H           | 11"       | 1                    | 1.0     | -       | -       | -       | -       | -       | -       | -       | -       |
| 6" x 7-ga x 39'   | 39                      | 7               | H           | 12-1/2"   | 1                    | 3.0     | 1.6     | 0.5     | -       | -       | -       | -       | -       | -       |
| 6" x 7-ga x 39'   | 39                      | 7               | H           | 14"       | 1                    | 4.6     | 3.3     | 2.0     | -       | -       | -       | -       | -       | -       |





# CITY OF ROCKWALL

## PLANNING AND ZONING COMMISSION CASE MEMO

### PLANNING AND ZONING DEPARTMENT

385 S. GOLIAD STREET • ROCKWALL, TX 75087

PHONE: (972) 771-7745 • EMAIL: PLANNING@ROCKWALL.COM

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**TO:** Planning and Zoning Commission

**DATE:** October 14, 2025

**APPLICANT:** Keaton Mai; *Dimension Group*

**CASE NUMBER:** SP2025-039; *Site Plan for Taco Bell*

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### **SUMMARY**

Discuss and consider a request by Keaton Mai of the Dimension Group on behalf of Michael Hampton of Creekside Commons Crossing LP for the approval of a Site Plan for a *Restaurant with 2,000 SF or More with Drive-Through* on a 0.936-acre parcel of land identified as a portion of Lot 18, Block A, Creekside Commons Addition, City of Rockwall, Rockwall County, Texas, zoned Commercial (C) District, generally located east of the intersection of S. Goliad Street [SH-205] and FM-549, and take any action necessary.

### **BACKGROUND**

On May 19, 1986, the subject property was annexed into the City of Rockwall by *Ordinance No. 86-37* [Case No A1986-005]. On March 4, 2013, the City Council approved a zoning change from an Agricultural (AG) District to a Commercial (C) District [Case No. Z2013-002; *Ordinance No. 13-03*] for a 45.5601-acre tract of land. On June 7, 2021, the City Council approved a preliminary plat [Case No. P2021-027] for a 14-lot commercial development (*i.e. Lots 1-14, Block A, Creekside Commons Addition*), which includes the subject property. On November 7, 2022, the City Council approved a final plat that established the subject property as a portion of Lot 18, Block A, Creekside Commons Addition. The subject property has remained vacant since its annexation.

### **PURPOSE**

On September 12, 2025, the applicant -- Keaton Mai with Dimension Group -- submitted an application requesting the approval of a site plan for a *Restaurant with 2,000 SF or More with Drive-Through* on the subject property.

### **ADJACENT LAND USES AND ACCESS**

The subject property is generally located east of the intersection of S. Goliad Street [SH-205] and FM-549. The land uses adjacent to the subject property are as follows:

North: Directly north of the subject property is FM-549, which is identified as a *Minor Collector* on the City's Master Thoroughfare Plan contained in the OURHometown Vision 2040 Comprehensive Plan. Following this is the Somerset Park Subdivision, which consists of 309 single-family homes and is zoned Planned Development District 63 (PD-63) for Single Family 10 (SF-10) District land uses.

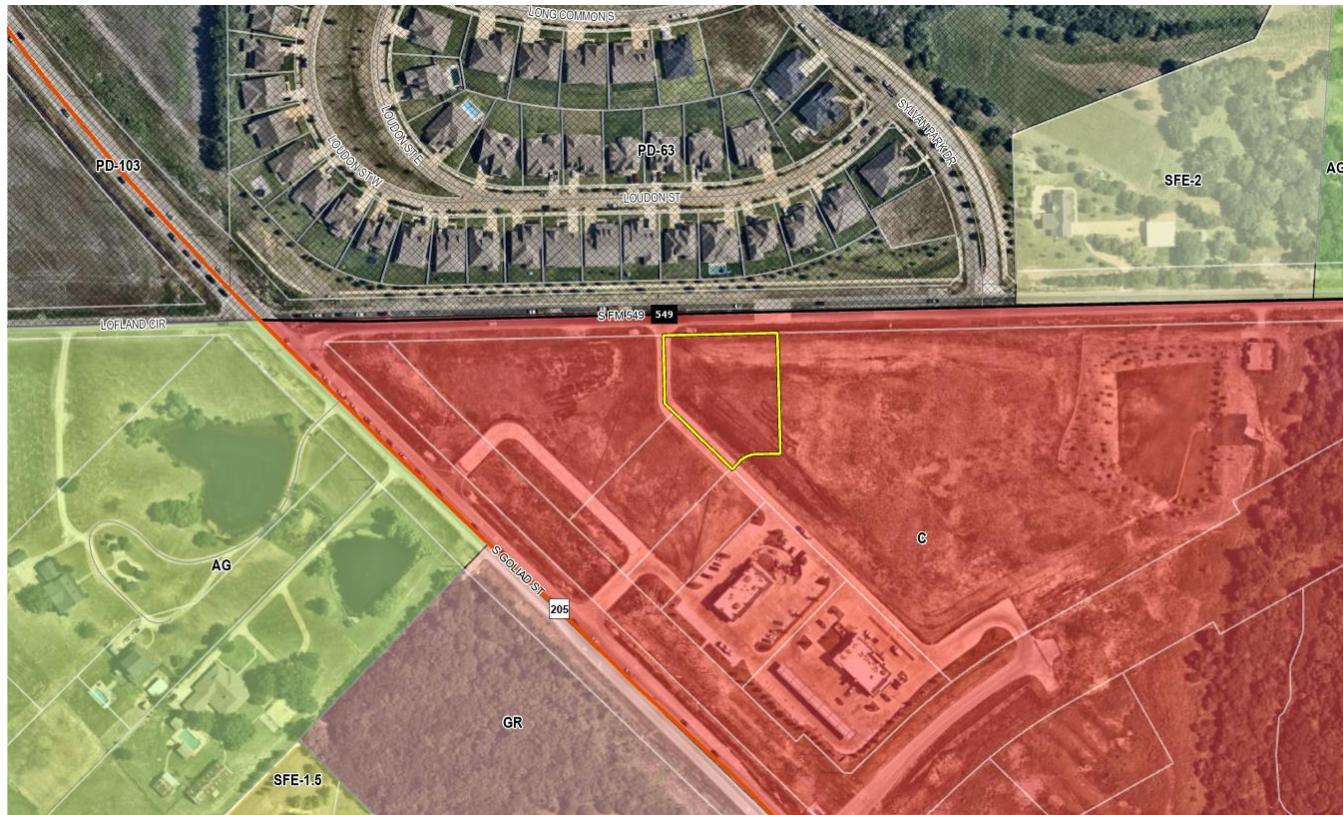
South: Directly south of the subject property are two (2) vacant parcels of land (*i.e. Lots 15 & 16, Block A, Creekside Commons Addition*) zoned Commercial (C) District. Beyond this are two (2) parcels of land (*i.e. Lots 1 & 14, Block A, Creekside Commons Addition*) developed with *Restaurant with Drive Through* (*i.e. McDonald's*) and a *Retail Store with Gasoline Sales* (*i.e. 7-11*), zoned Commercial (C) District. Following this is S. Goliad Street [SH-205], which is identified as a P6D (*i.e. principal arterial, six [6] lane, divided roadway*) on the City's Master Thoroughfare Plan contained in the OURHometown Vision 2040 Comprehensive Plan.

East: Directly east of the subject property is the remainder of Lot 18 on which the subject property is situated. Beyond this is right-of-way for the future alignment for FM-549, which is identified as a (*i.e. arterial, four [4] lane, divided*

roadway) on the City's Master Thoroughfare Plan contained in the OURHometown Vision 2040 Comprehensive Plan. Following this is the corporate City Limits of the City of Rockwall.

West: Directly west of the subject property is a 2.185-acre vacant parcel of land (i.e. Lot 17, Block A, Creekside Commons Addition), zoned Commercial (C) District. Beyond this is S. Goliad Street [SH-205], which is identified as a P6D (i.e. principal arterial, six [6] lane, divided roadway) on the City's Master Thoroughfare Plan contained in the OURHometown Vision 2040 Comprehensive Plan. Following this is a 5.00-acre tract of land (i.e. Tract 7-01 of the W. W. Ford Survey, Abstract No. 80) developed with a single-family home, zoned Agricultural (AG) District.

**MAP 1: LOCATION MAP**  
YELLOW: SUBJECT PROPERTY



## **DENSITY AND DIMENSIONAL REQUIREMENTS**

According to Section 01, *Land Use Schedule*, of Article 04, *Permissible Uses*, of the Unified Development Code (UDC), a *Restaurant with 2,000 SF or More with Drive-Through* is permitted *by-right* land use in a Commercial (C) District. The submitted site plan, landscape plan, treescape plan, photometric plan, and building elevations generally conform to the technical requirements contained within the Unified Development Code (UDC) for a property located within a Commercial (C) District. A summary of the density and dimensional requirements for the subject property are as follows:

| Ordinance Provisions       | Zoning District Standards | Conformance to the Standards |
|----------------------------|---------------------------|------------------------------|
| Minimum Lot Area           | 10,000 SF                 | X=0936-acres; In Conformance |
| Minimum Lot frontage       | 60-Feet                   | X>60-feet; In Conformance    |
| Minimum Lot Depth          | 100-Feet                  | X~297-feet; In Conformance   |
| Minimum Front Yard Setback | 15-Feet                   | X>15-feet; In Conformance    |
| Minimum Rear Yard Setback  | 10-Feet                   | X>10-feet; In Conformance    |
| Minimum Side Yard Setback  | 10-Feet                   | X>10-feet; In Conformance    |
| Maximum Building Height    | 60-Feet                   | X=25-feet; In Conformance    |
| Max Building/Lot Coverage  | 60%                       | X<60%; In Conformance        |

| Ordinance Provisions             | Zoning District Standards   | Conformance to the Standards |
|----------------------------------|---|------------------------------|
| Minimum Number of Parking Spaces | 1/100 SF = 26 spaces<br>1/4 Seats = 3 spaces<br>Total = 29 spaces | X=27; Exception Requested    |
| Minimum Landscaping Percentage   | 20%   | X=21%; In Conformance        |
| Maximum Impervious Coverage      | 85-90%  | X=79%; In Conformance        |

## TREESCAPE PLAN

The development of the proposed *Restaurant with 2,000 SF or More with Drive-Through* does not require the removal of any trees from the subject property. Given this, a *Treescape Plan* is not required for the requested site plan.

## CONFORMANCE WITH THE CITY'S CODES

According to Subsection 02.02(F)(29), of Article 13, *Definitions*, of the Unified Development Code (UDC) a *Restaurant with 2,000 SF or More with Drive-Through* is defined as “(a) place of business whose primary source of revenue is derived from the sale of prepared food to the general public for consumption on-premise or off-premises and/or in a personal vehicle or where facilities are provided on the premises that encourages the serving and consumption of food in a personal vehicle on or near the restaurant premises. The term shall not include a bakery, pastry shop, meat market, or ice cream parlor if on-premises consumption of food is not allowed.” In this case the applicant is requesting a *Restaurant with 2,000 SF or More with Drive-Through*, which conforms to the land use listed in Section 01, *Land Use Schedule*, of Article 04, *Permissible Uses*, of the Unified Development Code (UDC).

According to Table 5, *Parking Requirement Schedule*, of Article 06, *Parking and Loading*, of the Unified Development Code (UDC), a *Full-Service Restaurant* requires one (1) parking space per 100 SF, and a *Patio* requires one (1) parking space per four (4) seats. In this case, the applicant the applicant is required to provide 29 parking spaces (i.e.  $[2,548 \text{ SF} / 100 \text{ SF}] + [12 \text{ seats} / 4 \text{ seats}] = 29 \text{ parking spaces}$ ), and they are providing 27 parking spaces. This represents an overall shortfall of two (2) parking spaces. The applicant's variance letter indicates that the required parking for the *Full-Service Restaurant* is provided and only the *Patio* is creating the deficiency in parking. In review of the parking, the *Full-Service Restaurant* requires 26 parking spaces. This confirms the applicant's claim that the *Full-Service Restaurant* parking is satisfied, and the that the *Patio* is creating the deficiency. With that being said, this is a discretionary decision for Planning and Zoning Commission that will require a supermajority vote (e.g. six [6] out of the seven [7] commissioners), with a minimum of four (4) votes in the affirmative.

The proposed site plan generally conforms to the standards of the *General Commercial District Standards* as stipulated by Article 05, *District Development Standards*, of the Unified Development Code (UDC), with the exception of the variances being requested as outlined in the *Variances and Exceptions Requested by the Applicant* section of this case memo.

## VARIANCES AND EXCEPTIONS BY THE APPLICANT

As previously stated, the applicant's request appears to generally conform to the requirements of the Unified Development Code (UDC); however, staff has identified the following variance and exception associated with the applicant's request:

- (1) Articulation. According to Subsection 04.01, *General Commercial District Standards*, of Article 05, *District Development Standards*, of the Unified Development Code (UDC), each building façade within a Commercial (C) District must meet the minimum primary and secondary articulation standards. In this case, the proposed buildings do not meet the articulation standards. This will require an exception from the Planning and Zoning Commission.
- (2) Parking. According to Table 5, *Parking Requirement Schedule*, of Article 06, *Parking and Loading*, of the Unified Development Code (UDC), a *Full-Service Restaurant* requires one (1) parking space per 100 SF, and a *Patio* requires one (1) parking space per four (4) seats. In this case, the applicant the applicant is required to provide 29 parking spaces (i.e.  $[2,548 \text{ SF} / 100 \text{ SF}] + [12 \text{ seats} / 4 \text{ seats}] = 29 \text{ parking spaces}$ ), and they are providing 27 parking spaces. This will require an exception from the Planning and Zoning Commission.

According to Subsection 09, *Exceptions and Variances*, of Article 11, *Development Applications and Review Procedures*, of the Unified Development Code (UDC), "...an applicant may request the Planning and Zoning Commission grant variances and exceptions to the provisions contained in the Unified Development Code (UDC), where unique or extraordinary conditions exist or where strict adherence to the technical requirements of the Unified Development Code (UDC) would create an undue hardship." In addition, the code requires that the applicant provide compensatory measures that directly offset the requested variances and exceptions. In this case, the applicant is providing the following compensatory measures: [1] an internalized roof access ladder, [2] 48% stone on the primary façade, [3] masonry above the 90% required in an *Overlay District*, [4] vertical projections greater than required, [5] additional architectural elements, and [6] a 25-foot landscape buffer in lieu of a 10-foot landscape buffer. Staff should note that compensatory item [4] does not appear to be accurate as the vertical projections meet the minimum requirements; however, the other compensatory items appear to *meet or exceed* the intent of the Unified Development Code (UDC). That being said, requests for exceptions and variances to the Unified Development Code (UDC) are discretionary decisions for the Planning and Zoning Commission, that require a supermajority vote (e.g. *six [6] out of the seven [7] commissioners*) -- *with a minimum of four (4) votes in the affirmative* -- for the approval of a variance or exception.

## **CONFORMANCE WITH OURHOMETOWN VISION 2040 COMPREHENSIVE PLAN**

According to the Future Land Use Plan contained in the OURHometown Vision 2040 Comprehensive Plan, the subject property is situated within the *South Central Residential District* and is designated for *Commercial* land uses. According to the *District Strategies* this land use designation should "... support the existing and proposed residential developments and should be compatible in scale with the adjacent residential structures." In this case, the applicant is proposing a *Restaurant, 2,000 SF or More, with Drive-Through or Drive-In*. Based on this, the applicant's land use appears to conform with the Comprehensive Plan. In addition, Chapter 09, *Non-Residential*, of the OURHometown Vision 2040 Comprehensive Plan states as one (1) of the architectural policies the community should "... encourage high quality and inspiring architecture throughout the City..." More specifically the OURHometown Vision 2040 Comprehensive Plan states that "(l)ong, blank wall facades on all nonresidential buildings should be subdivided with vertical breaks -- or 'articulated' in architectural terms --, and architectural elements should be incorporated to reflect a scale and rhythm that is more traditional of a small-town." In this case, the applicant's request appears to conform with the goals and policies for non-residential buildings contained in the Comprehensive Plan; however, this will be a discretionary decision for the Planning and Zoning Commission concerning the applicant's request for an exception to the articulation requirements.

## **ARCHITECTURAL REVIEW BOARD (ARB) RECOMMENDATION**

On September 30, 2025, the Architectural Review Board (ARB) reviewed the applicant's proposed building elevations and approved a motion to recommend approval of the building elevations by a vote of 6-0, with Board Member Kirkpatrick absent, with the condition that the building footprint on the site plan be updated to reflect the articulation shown on the building elevations. The applicant has corrected this and is meeting the conditions of the Architectural Review Board's (ARB's) recommendation.

## **CONDITIONS OF APPROVAL**

If the Planning and Zoning Commission chooses to approve the applicant's *Site Plan* for a *Restaurant with 2,000 SF or More with Drive-Through* on the subject property, then staff would propose the following conditions of approval:

- (1) All staff comments provided by the Planning, Engineering and Fire Department must be addressed prior to the submittal of engineering plans.
- (2) Any construction resulting from the approval of this *Site Plan* shall conform to the requirements set forth by the Unified Development Code (UDC), the International Building Code (IBC), the Rockwall Municipal Code of Ordinances, city adopted engineering and fire codes and with all other applicable regulatory requirements administered and/or enforced by the state and federal government.



# DEVELOPMENT APPLICATION

City of Rockwall  
Planning and Zoning Department  
385 S. Goliad Street  
Rockwall, Texas 75087

STAFF USE ONLY

PLANNING & ZONING CASE NO.

NOTE: THE APPLICATION IS NOT CONSIDERED ACCEPTED BY THE CITY UNTIL THE PLANNING DIRECTOR AND CITY ENGINEER HAVE SIGNED BELOW.

DIRECTOR OF PLANNING:

CITY ENGINEER:

PLEASE CHECK THE APPROPRIATE BOX BELOW TO INDICATE THE TYPE OF DEVELOPMENT REQUEST [SELECT ONLY ONE BOX]:

**PLATTING APPLICATION FEES:**

- MASTER PLAT (\$100.00 + \$15.00 ACRE)<sup>1</sup>
- PRELIMINARY PLAT (\$200.00 + \$15.00 ACRE)<sup>1</sup>
- FINAL PLAT (\$300.00 + \$20.00 ACRE)<sup>1</sup>
- REPLAT (\$300.00 + \$20.00 ACRE)<sup>1</sup>
- AMENDING OR MINOR PLAT (\$150.00)
- PLAT REINSTATEMENT REQUEST (\$100.00)

**SITE PLAN APPLICATION FEES:**

- SITE PLAN (\$250.00 + \$20.00 ACRE)<sup>1</sup>
- AMENDED SITE PLAN/ELEVATIONS/LANDSCAPING PLAN (\$100.00)

**ZONING APPLICATION FEES:**

- ZONING CHANGE (\$200.00 + \$15.00 ACRE)<sup>1</sup>
- SPECIFIC USE PERMIT (\$200.00 + \$15.00 ACRE)<sup>1 & 2</sup>
- PD DEVELOPMENT PLANS (\$200.00 + \$15.00 ACRE)<sup>1</sup>

**OTHER APPLICATION FEES:**

- TREE REMOVAL (\$75.00)
- VARIANCE REQUEST/SPECIAL EXCEPTIONS (\$100.00)<sup>2</sup>

**NOTES:**

<sup>1</sup>: IN DETERMINING THE FEE, PLEASE USE THE EXACT ACREAGE WHEN MULTIPLYING BY THE PER ACRE AMOUNT. FOR REQUESTS ON LESS THAN ONE ACRE, ROUND UP TO ONE (1) ACRE.

<sup>2</sup>: A \$1,000.00 FEE WILL BE ADDED TO THE APPLICATION FEE FOR ANY REQUEST THAT INVOLVES CONSTRUCTION WITHOUT OR NOT IN COMPLIANCE TO AN APPROVED BUILDING PERMIT.

## PROPERTY INFORMATION [PLEASE PRINT]

ADDRESS NWC of Hwy 205 and Future FM 549

SUBDIVISION Creekside Commons

LOT 18 BLOCK A

GENERAL LOCATION NWC of Hwy 205 and Future FM 549

## ZONING, SITE PLAN AND PLATTING INFORMATION [PLEASE PRINT]

|                 |                |                |                             |
|-----------------|----------------|----------------|-----------------------------|
| CURRENT ZONING  | Commercial (C) | CURRENT USE    | Undeveloped                 |
| PROPOSED ZONING | Commercial (C) | PROPOSED USE   | Restaurant w/ drive-through |
| ACREAGE         | 0.936          | LOTS [CURRENT] | 1                           |

**SITE PLANS AND PLATS:** BY CHECKING THIS BOX YOU ACKNOWLEDGE THAT DUE TO THE PASSAGE OF HB3167 THE CITY NO LONGER HAS FLEXIBILITY WITH REGARD TO ITS APPROVAL PROCESS. AND FAILURE TO ADDRESS ANY OF STAFF'S COMMENTS BY THE DATE PROVIDED ON THE DEVELOPMENT CALENDAR WILL RESULT IN THE DENIAL OF YOUR CASE.

## OWNER/APPLICANT/AGENT INFORMATION [PLEASE PRINT/CHECK THE PRIMARY CONTACT/ORIGINAL SIGNATURES ARE REQUIRED]

|                                |                               |   |                     |
|--------------------------------|-------------------------------|---|---------------------|
| <input type="checkbox"/> OWNER | Creekside Commons Crossing LP | <input checked="" type="checkbox"/> APPLICANT | The Dimension Group |
| CONTACT PERSON                 | Michael Hampton               | CONTACT PERSON                                | Keaton Mai          |
| ADDRESS                        | [REDACTED]                    | ADDRESS                                       | [REDACTED]          |
| CITY, STATE & ZIP              | [REDACTED]                    | CITY, STATE & ZIP                             | [REDACTED]          |
| PHONE                          | [REDACTED]                    | PHONE   | [REDACTED]          |
| E-MAIL                         | [REDACTED]                    | E-MAIL  | [REDACTED]          |

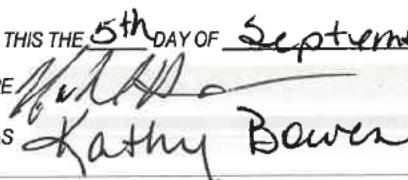
## NOTARY VERIFICATION [REQUIRED]

BEFORE ME, THE UNDERSIGNED AUTHORITY, ON THIS DAY PERSONALLY APPEARED Michael Hampton [OWNER] THE UNDERSIGNED, WHO STATED THE INFORMATION ON THIS APPLICATION TO BE TRUE AND CERTIFIED THE FOLLOWING:

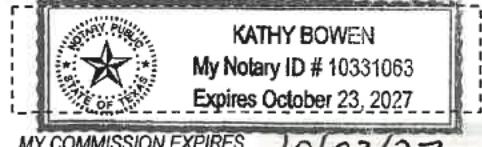
"I HEREBY CERTIFY THAT I AM THE OWNER FOR THE PURPOSE OF THIS APPLICATION; ALL INFORMATION SUBMITTED HEREIN IS TRUE AND CORRECT; AND THE APPLICATION FEE OF \$275 TO COVER THE COST OF THIS APPLICATION, HAS BEEN PAID TO THE CITY OF ROCKWALL ON THIS THE 5th DAY OF September 2025. BY SIGNING THIS APPLICATION, I AGREE THAT THE CITY OF ROCKWALL (I.E. "CITY") IS AUTHORIZED AND PERMITTED TO PROVIDE INFORMATION CONTAINED WITHIN THIS APPLICATION TO THE PUBLIC. THE CITY IS ALSO AUTHORIZED AND PERMITTED TO REPRODUCE ANY COPYRIGHTED INFORMATION SUBMITTED IN CONJUNCTION WITH THIS APPLICATION, IF SUCH REPRODUCTION IS ASSOCIATED OR IN RESPONSE TO A REQUEST FOR PUBLIC INFORMATION."

GIVEN UNDER MY HAND AND SEAL OF OFFICE ON THIS THE 5th DAY OF September 2025

OWNER'S SIGNATURE



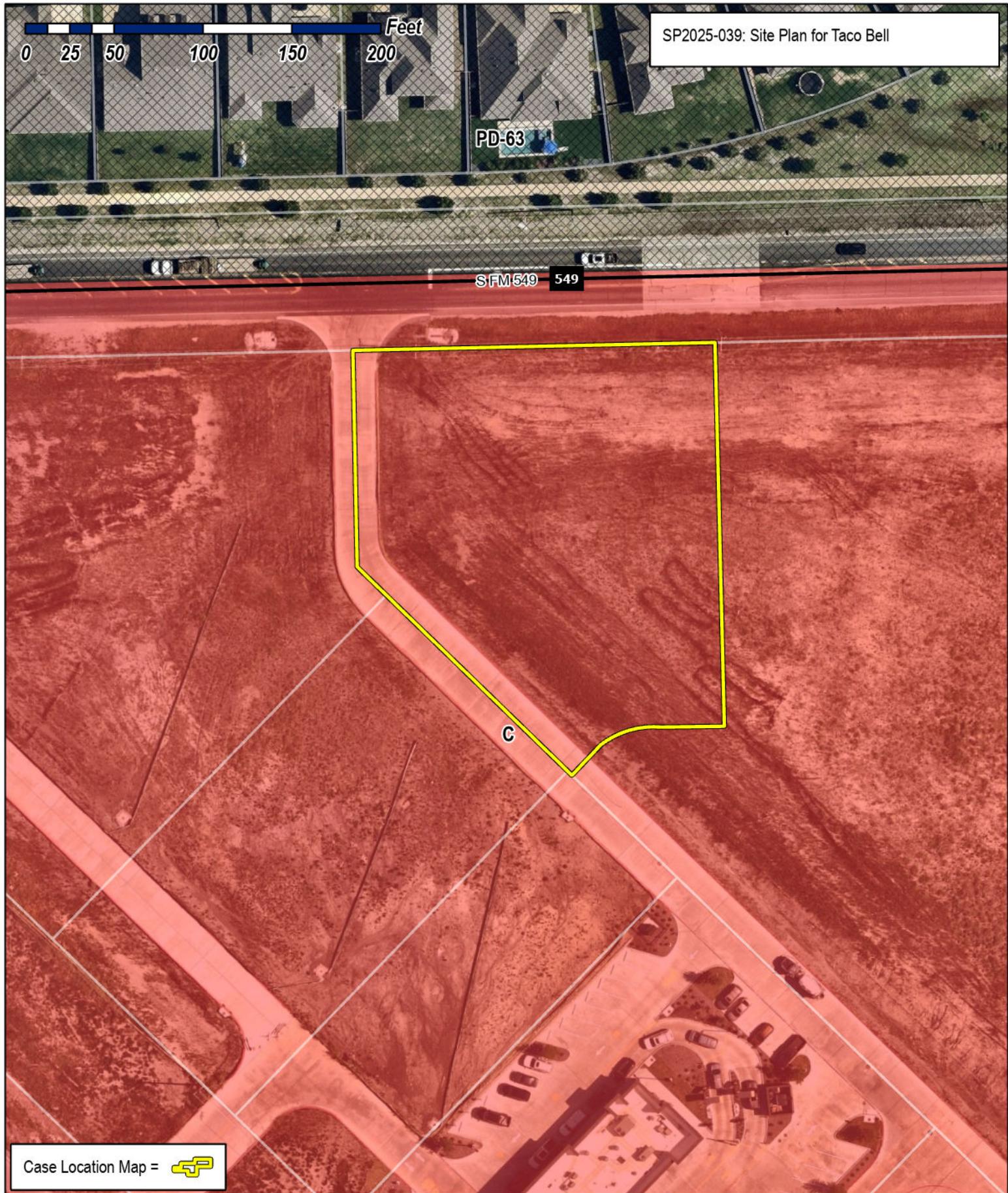
NOTARY PUBLIC IN AND FOR THE STATE OF TEXAS



KATHY BOWEN  
My Notary ID # 10331063  
Expires October 23, 2027

MY COMMISSION EXPIRES

10/23/27

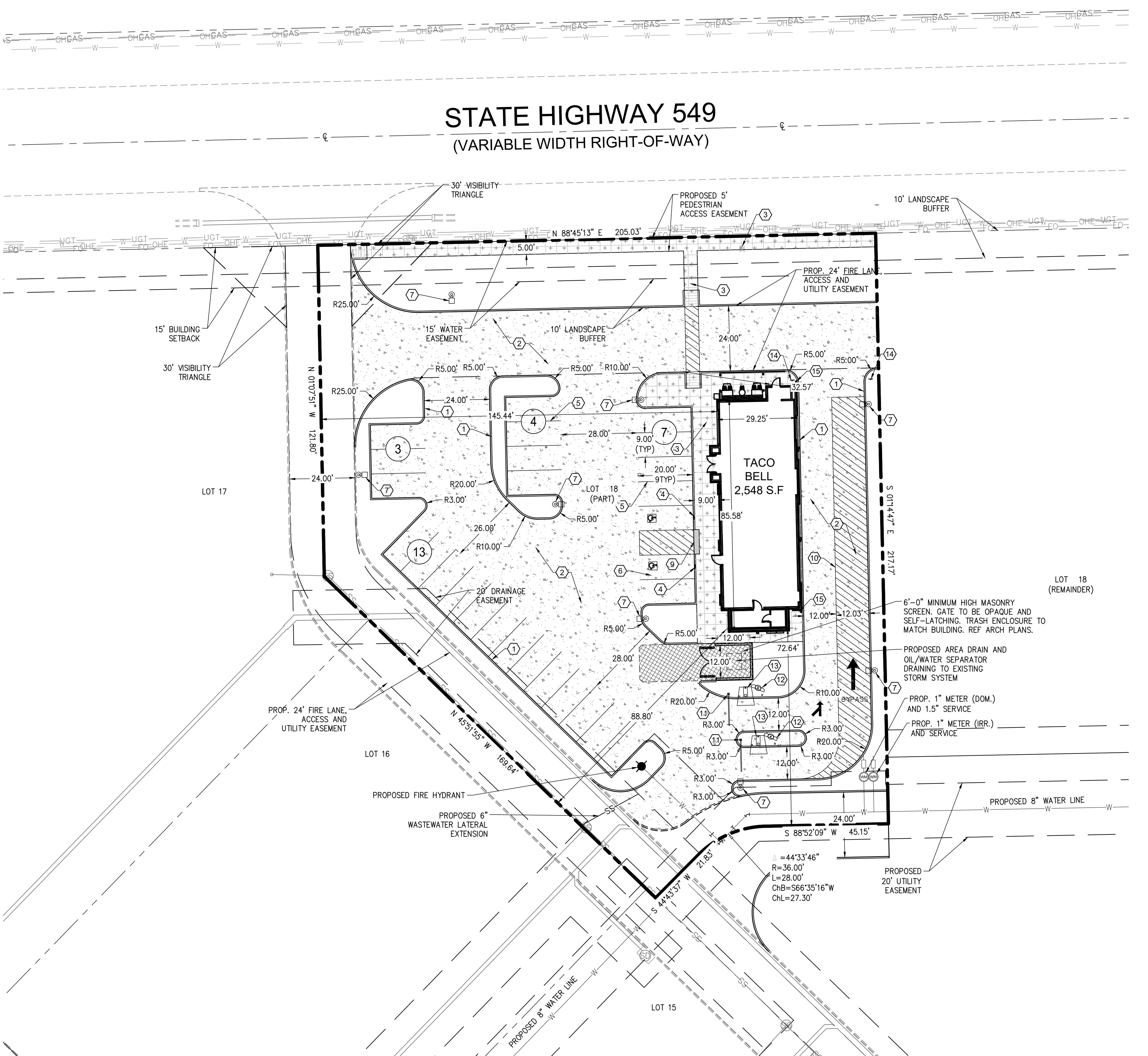


## City of Rockwall

Planning & Zoning Department  
385 S. Goliad Street  
Rockwall, Texas 75087  
(P): (972) 771-7745  
(W): [www.rockwall.com](http://www.rockwall.com)

The City of Rockwall GIS maps are continually under development and therefore subject to change without notice. While we endeavor to provide timely and accurate information, we make no guarantees. The City of Rockwall makes no warranty, express or implied, including warranties of merchantability and fitness for a particular purpose. Use of the information is the sole responsibility of the user.





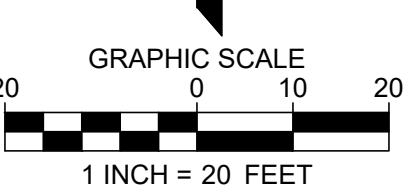
**CAUTION NOTICE TO CONTRACTORS**  
THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUCH CALL 811 AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THESE PLANS.



## STATE HIGHWAY 549 (VARIABLE WIDTH RIGHT-OF-WAY)

### SITE PLAN KEYNOTES:

- ① CONSTRUCT 6" CURB & GUTTER
- ② CONSTRUCT 6" CONCRETE PAVEMENT SECTION
- ③ INSTALL SIDEWALK PAVEMENT
- ④ INSTALL HANDICAP VAN AND CAR SIGN
- ⑤ 4" WHITE PAVEMENT SOLID PARKING STRIPES
- ⑥ HANDICAP VAN PARKING
- ⑦ STANDARD AREA LIGHT POLE
- ⑧ NOT USED
- ⑨ NEW BARRIER FREE RAMPS
- ⑩ PROPOSED ESCAPE LANE
- ⑪ CLEARANCE BAR
- ⑫ MENU BOARD
- ⑬ ORDER SPEAKER
- ⑭ "ONE WAY DO NOT ENTER" SIGN
- ⑮ PROPOSED 4' BOLLARD



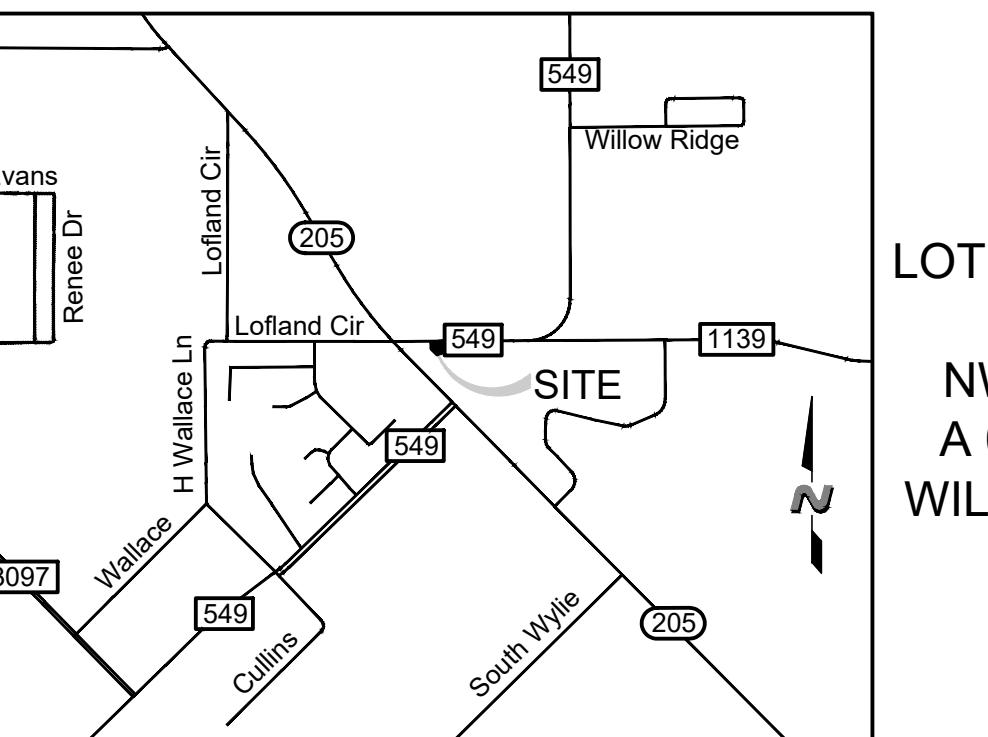
ALL RESPONSIBILITY FOR ADEQUACY OF DESIGN REMAINS WITH THE DESIGN ENGINEER. THE CITY OF ROCKWALL, IN REVIEWING AND RELEASING PLANS FOR CONSTRUCTION, ASSUMES NO RESPONSIBILITY FOR ADEQUACY OR ACCURACY OF DESIGN.

### GENERAL NOTES

1. The contractor shall assume sole and complete responsibility for his means and methods of construction, job site conditions and job site safety, including safety of all persons and property. This requirement shall apply continuously and not be limited to working hours. The contractor shall save, protect, indemnify defend and hold harmless the owner, the architect and the engineer from any claim of liability, real or alleged, arising out of the performance of any work on this project. The contractor shall name the owner, the architect and the engineer as "additional insured" on his insurance policies.
2. Existing above ground utilities have been shown based on information shown on a survey of the property. Underground utilities are shown based on recorded data and may not be complete or exact. The contractor shall be responsible for verifying the locations and depths of all above ground and underground utilities prior to construction. The contractor shall be responsible for damage to existing above ground or underground utilities, including those not shown on the plans. The contractor is advised to contact the city and all franchise utility companies, easement holders, etc. at least 48 hours prior to beginning excavation in the vicinity of any underground utility.
3. The contractor shall comply with all building codes and regulations, federal, state, county, and city safety codes and inspection requirements.
4. The contractor shall provide dust protection during construction. All trash and debris shall be picked up at all times. Commercial construction debris/solid waste hauler permit required.
5. There will be no outside storage or above ground storage tanks. (Subsection 01.05, of Article 05, UDC)
6. Per the Engineering Standards of Design and Construction, dumpster areas will need to drain to oil/water separator and then to storm lines.

|                           |                                      |
|---------------------------|--------------------------------------|
| USE                       | COMMERCIAL (DRIVE-THRU RESTAURANT)   |
| LOT AREA                  | 40,751.89 S.F. (0.936 ACRES)         |
| BUILDING SQUARE FOOTAGE   | 2,548 S.F.                           |
| PATIO SEATING             | 10 SEATS                             |
| FAR                       | 0.06:1                               |
| BUILDING HEIGHT           | 23'-0"                               |
| TOTAL PVIOUS COVER        | 8,743 S.F. OR 21%                    |
| TOTAL IMPERVIOUS COVER    | 32,008 S.F. OR 79%                   |
| PARKING REQUIRED          | 29 SPACES (1/100 G.F.A. - 1/4 SEATS) |
| PARKING PROVIDED          | 27 SPACES                            |
| HANDICAP PARKING REQUIRED | 2 SPACES                             |
| HANDICAP PARKING PROVIDED | 2 SPACES                             |

| PAVING LEGEND |  |
|---------------|--|
| PARKING AREA  | 6" THICK 4000 P.S.I. #4 REBAR AT 18" O.C.E.W. (6.5 SACK MIX) |
| DUMPSTER PAD  | 7" THICK 4000 P.S.I. #4 REBAR AT 18" O.C.E.W. (6.5 SACK MIX) |
| SIDEWALK      | 4" THICK 3000 P.S.I. #3 REBAR AT 24" O.C.E.W. (5.5 SACK MIX) |



VICINITY MAP  
N.T.S.

**SITE PLAN**  
LOT 18, BLOCK A, CREEKSIDE COMMONS  
ADDITION  
NWC STATE HIGHWAY 205 & F.M. 549  
A 0.936 ACRE TRACT OF LAND IN THE  
WILLIAM W. FORD SURVEY, ABST. NO 80  
CITY OF ROCKWALL, ROCKWALL  
COUNTY, TEXAS  
CITY PROJECT #SP2025-039  
October 6, 2025

APPROVED:  
I hereby certify that the above and foregoing site plan for a development in the City of Rockwall, Texas, was approved by the Planning & Zoning Commission of the City of Rockwall on the \_\_\_\_ day of \_\_\_\_ 2025.

WITNESS OUR HANDS, this \_\_\_\_ day of \_\_\_\_ 2025.

Planning & Zoning Commission, Chairman \_\_\_\_\_ Director of Planning and Zoning \_\_\_\_\_

**CITY OF ROCKWALL MONUMENTS**  
COR-8: ALUMINUM DISK STAMPED "CITY OF ROCKWALL SURVEY MONUMENT" AT THE NORTHERLY INTERSECTION OF SILVER VIEW LANE AND DIAMOND WAY DRIVE ±1 FOOT NORTHERLY OF CURB LINE IN CENTER OF CURVE.  
N: 7018063.113, E: 2609533.682 ELEVATION: 600.48'  
COR-9: BRASS DISK STAMPED "CITY OF ROCKWALL SURVEY MONUMENT" ON THE SOUTH SIDE OF DISCOVERY BOULEVARD AT THE SOUTHEAST CORNER OF CURB INLET ±180 FOOT EAST INTERSECTION OF DISCOVERY/CORPORATE.  
N: 7020550.132, E: 2607463.893 ELEVATION: 595.63'

**ENGINEER/APPLICANT**  
THE DIMENSION GROUP  
10755 SANDHILL ROAD  
DALLAS, TX 75238  
PHONE: (214) 343-9400  
CONTACT: KEATON L. MAI, PE

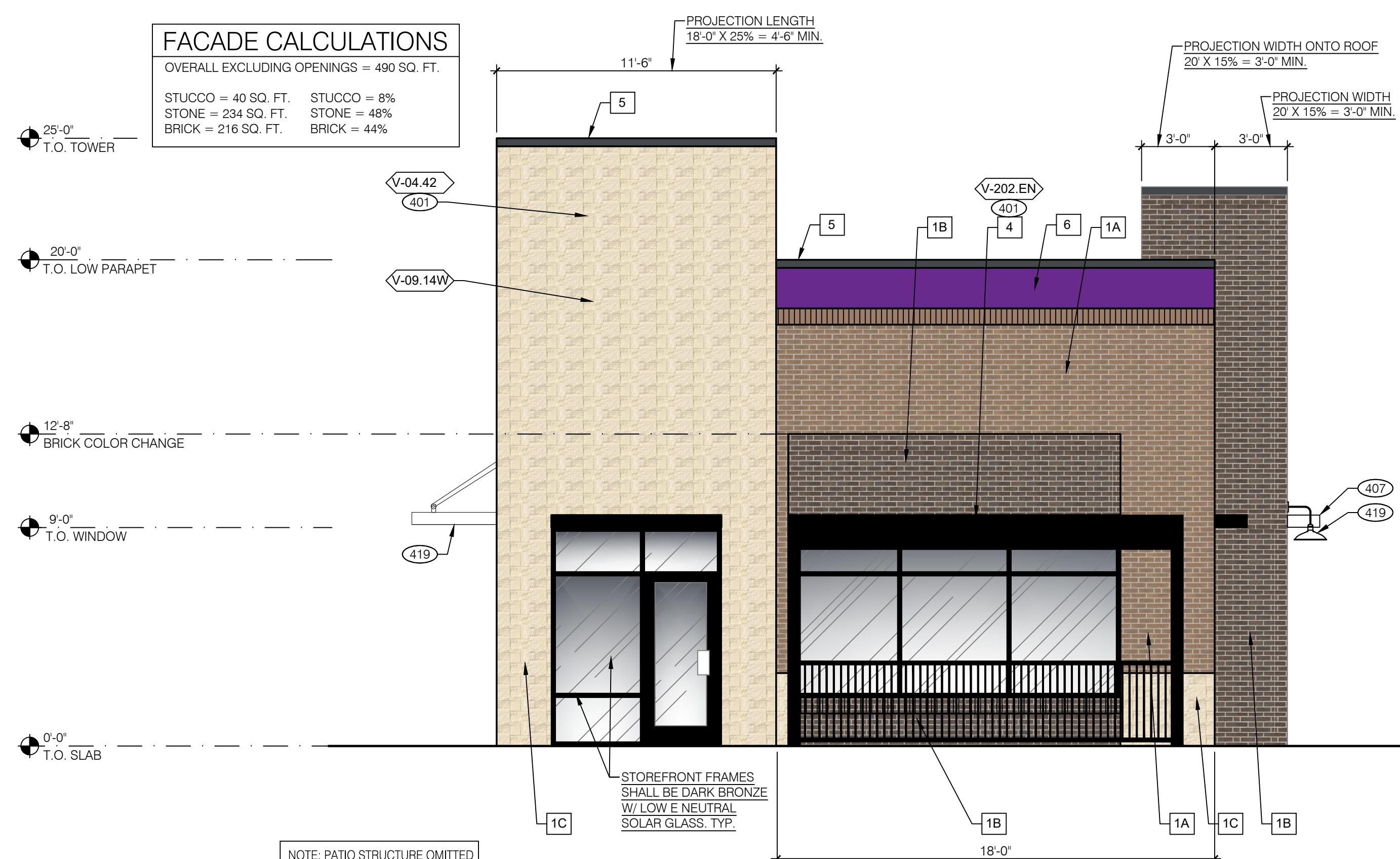
**OWNER**  
PRUDENT DEVELOPMENT  
10755 SANDHILL ROAD  
DALLAS, TX 75238  
PHONE: (214) 271-4630  
CONTACT: MICHAEL HAMPTON

**DEVELOPER**  
VALLEY BELLS ENTERPRISES, LLC  
101 E. CHEROKEE STREET  
JACKSONVILLE, TX 75766  
PHONE: (903) 586-1524  
CONTACT: MIKE STRANSBERRY

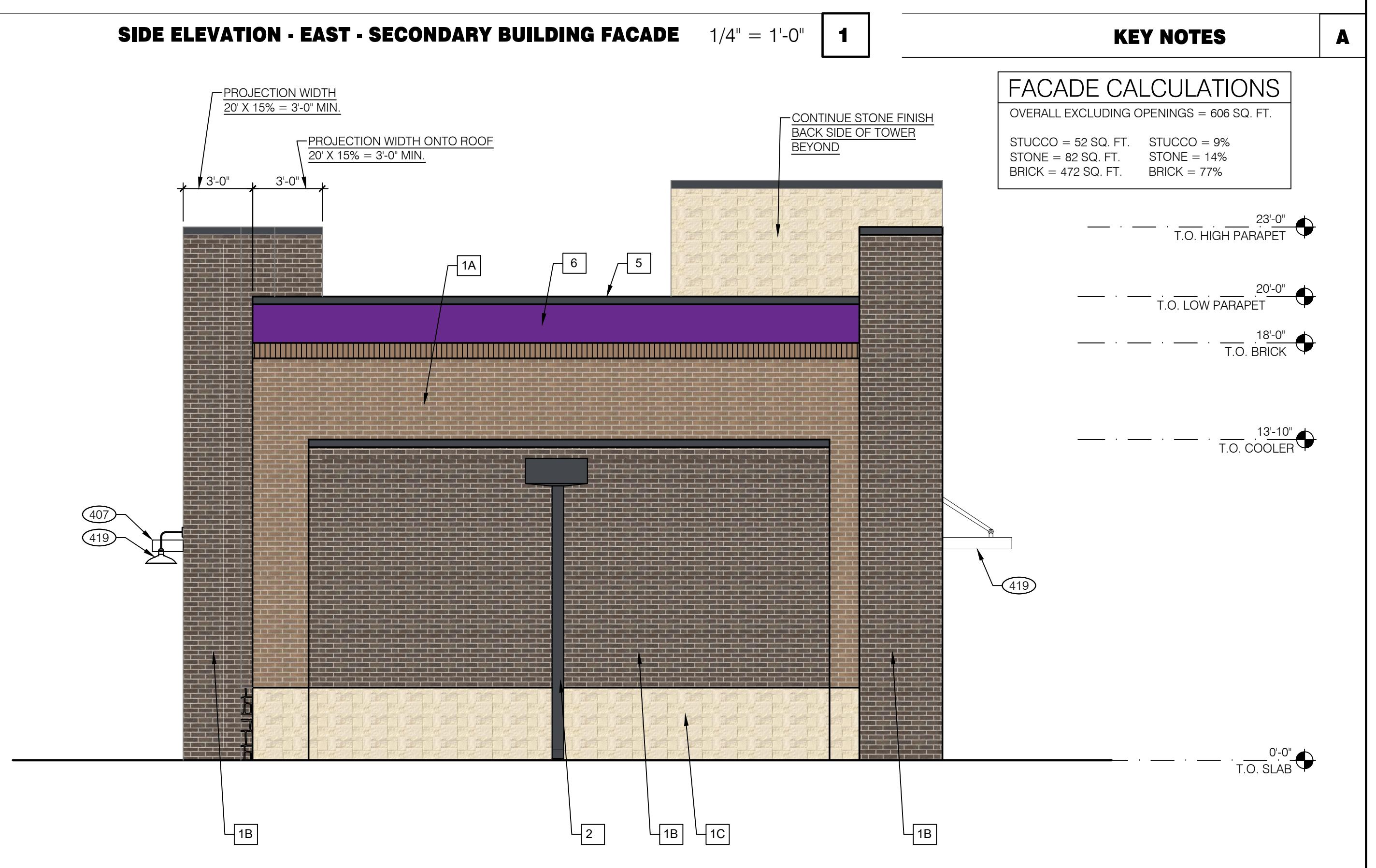




- 401 BUILDING SIGN BY VENDOR. REQUIRES ELECTRICAL, SEE ELECTRICAL PLANS.
- 402 DRIVE THRU WINDOW. SEE SHEET A1.0 AND A1.1.
- 407 METAL CANOPIES BY VENDOR. REQUIRES ELECTRICAL, SEE ELECTRICAL PLANS.
- 409 ASSUME D/T LANE SURFACE IS 6" BELOW THE FINISH FLOOR. REFER TO GRADING & SITE PLAN.
- 411 CONCRETE CURB.
- 419 EXTERIOR LIGHT FIXTURE. SEE ELECTRICAL DRAWINGS.



**FRONT ELEVATION - NORTH - PRIMARY BUILDING FAÇADE** 1/4" = 1'-0" **2**



**REAR ELEVATION - SOUTH - SECONDARY BUILDING FAÇADE** 1/4" = 1'-0" **3**

**TACO BELL**  
LOT 18, BLOCK A,  
CREEKSIDE COMMONS  
NWC STATE HWY 205 & FM 549  
ROCKWALL, TX



# ENDEAVOR 2.0

## EXTERIOR ELEVATIONS

# A4.1



10/06/25

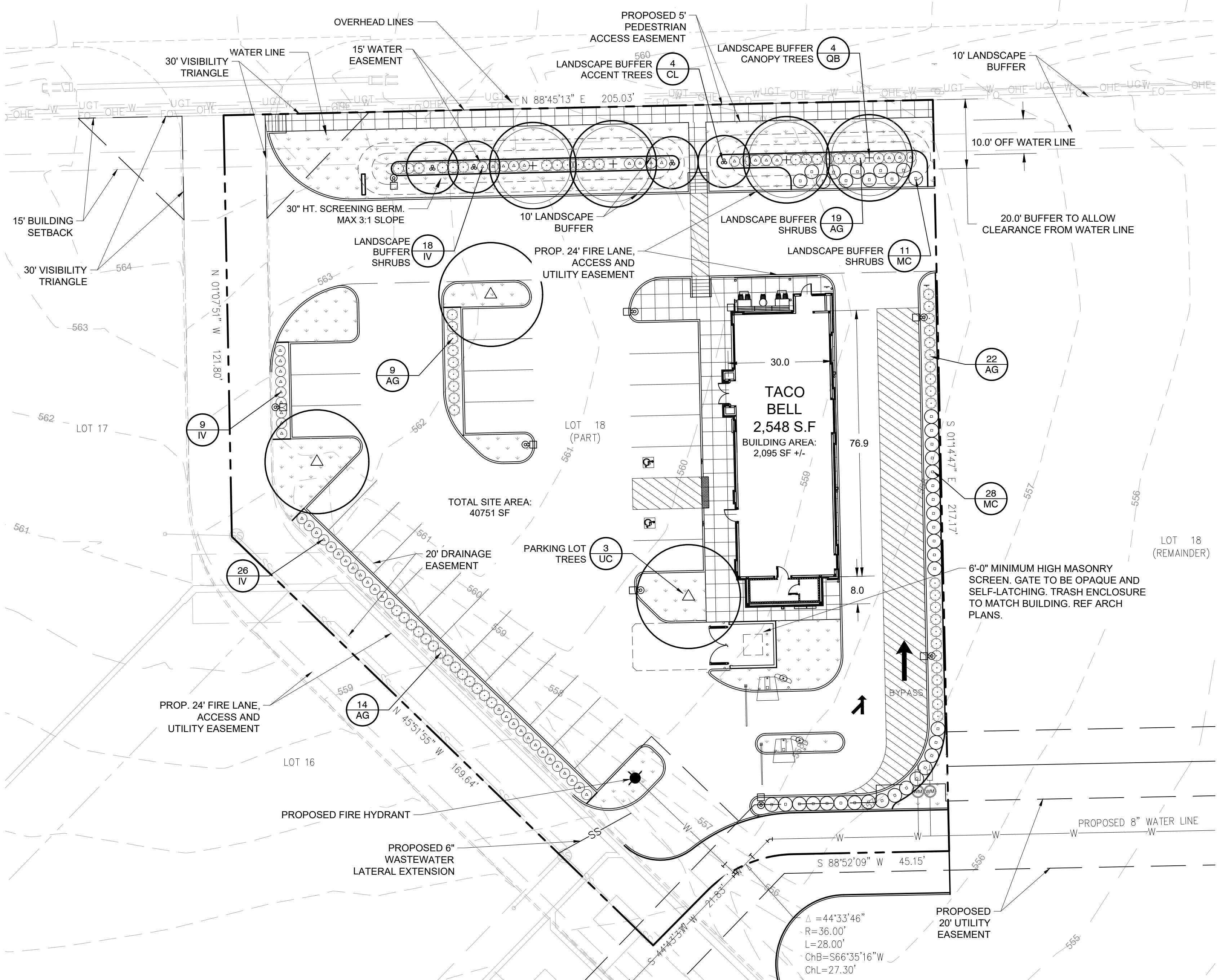
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BY SMS  
drawn by LC  
designed by SS  
approved by SS

|            |                      |
|------------|----------------------|
| DATE       | REVISION DESCRIPTION |
| 09-11-2025 | 250-340              |
| DATE       | project no.          |
| 09-11-2025 | 09-11-2025           |
| dwg.       | dwg.                 |

# STATE HIGHWAY 549

(VARIABLE WIDTH RIGHT-OF-WAY)



## IRRIGATION CONCEPT

- AN AUTOMATIC IRRIGATION SYSTEM SHALL BE INSTALLED AND OPERATIONAL BY THE TIME OF FINAL INSPECTION. THE ENTIRE IRRIGATION SYSTEM SHALL BE INSTALLED BY A LICENSED AND QUALIFIED IRRIGATION CONTRACTOR.
- THE IRRIGATION SYSTEM WILL MEET THE REQUIREMENTS OF THE UDC.
- THE IRRIGATION SYSTEM WILL OPERATE ON POTABLE WATER, AND THE SYSTEM WILL HAVE APPROPRIATE BACKFLOW PREVENTION DEVICES INSTALLED TO PREVENT CONTAMINATION OF THE POTABLE SOURCE.
- ALL NON-TURF PLANTED AREAS SHALL BE DRIP IRRIGATED. SODDED AND SEEDED AREAS SHALL BE IRRIGATED WITH SPRAY OR ROTOR HEADS AT 100% HEAD-TO-HEAD COVERAGE.
- ALL PLANTS SHARING SIMILAR HYDROZONE CHARACTERISTICS SHALL BE PLACED ON A VALVE DEDICATED TO PROVIDE THE NECESSARY WATER REQUIREMENTS SPECIFIC TO THAT HYDROZONE.
- THE IRRIGATION SYSTEM SHALL BE DESIGNED AND INSTALLED, TO THE MAXIMUM EXTENT POSSIBLE, TO CONSERVE WATER BY USING THE FOLLOWING DEVICES AND SYSTEMS: MATCHED PRECIPITATION RATE TECHNOLOGY ON ROTOR AND SPRAY HEADS (WHEREVER POSSIBLE), RAIN SENSORS, AND MULTI-PROGRAM COMPUTERIZED IRRIGATION CONTROLLERS FEATURING SENSOR INPUT CAPABILITIES.

## CAUTION NOTICE TO CONTRACTORS

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUCH CALL 811 AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THESE PLANS.



| PLANT SCHEDULE |     |      |                                      |                                  |              |          |
|----------------|-----|------|--------------------------------------|----------------------------------|--------------|----------|
| SYMBOL         | KEY | QTY  | BOTANICAL NAME                       | COMMON NAME                      | SIZE         | SPACING  |
| TREES          |     |      |                                      |                                  |              |          |
| ●              | CL  | 4    | CHILOPSIS LINEARIS 'TIMELESS BEAUTY' | TIMELESS BEAUTY<br>DESERT WILLOW | MIN. 4' HT.  | PER PLAN |
| ●              | QB  | 4    | QUERCUS BUCKLEYI                     | TEXAS RED OAK                    | MIN. 4" CAL. | PER PLAN |
| ●              | UC  | 3    | ULMUS CRASSIFOLIA                    | CEDAR ELM                        | MIN. 4" CAL. | PER PLAN |
| SHRUBS         |     |      |                                      |                                  |              |          |
| ○              | AG  | 64   | ABELIA GRANDIFLORA 'ROSE CREEK'      | ROSE CREEK ABELIA                | 5 GALLON     | 2' O.C.  |
| ○              | IV  | 53   | ILEX VOMITORIA 'NANA'                | DWARF YUAPON HOLLY               | 5 GALLON     | 3' O.C.  |
| ○              | MC  | 39   | MYRICA CERIFERA 'DON'S DWARF'        | DON'S DWARF WAX<br>MYRTLE        | 5 GALLON     | 4' O.C.  |
| GROUNDCOVER    |     |      |                                      |                                  |              |          |
| ▽              | SF  | 6733 | SOD: CYDONIA DACTYLON 'TIF TUF'      | TIF TUF BERMUDA<br>GRASS         | SOD          |          |

## LANDSCAPE CALCULATIONS

PERMITTING AUTHORITY: CITY OF ROCKWALL, TX  
ZONING: C  
ADJACENT ZONING: C

### OVERALL

TOTAL SITE AREA: 40,751 SF  
LANDSCAPE AREA REQUIRED: 8,150 SF (20% OF SITE AREA)  
LANDSCAPE AREA PROVIDED: 8,594 SF  
% OF REQ. AREA IN FRONT AND SIDE YARDS: 91.7% (MIN. 50%)  
IMPERVIOUS AREA ON SITE: 32,157 SF

### LANDSCAPE BUFFER ALONG S FM 549, MIN. WIDTH 10'

LENGTH OF FRONTRAGE: 192 LF (NOT INCL WIDTH OF DRIVEWAY)  
CANOPY TREES REQUIRED: 4 CANOPY TREES (1 PER 50 LF)  
CANOPY TREES PROVIDED: 4 CANOPY TREES (1 PER 50 LF)  
ACCENT TREES REQUIRED: 4 ACCENT TREES (1 PER 50 LF)  
ACCENT TREES PROVIDED: 4 ACCENT TREES (1 PER 50 LF)  
SHRUBS REQUIRED: 48 SHRUBS PROVIDED  
SHRUBS PROVIDED: 48 SHRUBS PROVIDED  
BERM REQUIRED: 30' BERM - SEE CIVIL PLANS FOR FINAL GRADES  
NOTE: ADDITIONAL SHRUBS HAVE BEEN ADDED TO PROVIDE AN ENHANCED SCREEN AT THE DRIVE THROUGH.

### PARKING LOT HEAD LIGHT SCREENING

PROVIDED AS REQUIRED.

### PARKING LOT LANDSCAPING

SIZE OF PARKING AND MANEUVERING AREA: 22,382 SF  
QUANTITY OF PARKING SPACES: 27 PARKING SPACES  
CANOPY TREES REQUIRED: 3 CANOPY TREES (1 PER 10 PARKING SPACES)  
CANOPY TREES PROVIDED: 3 CANOPY TREES

NOTE: NO PARKING SPACE MAY BE MORE THAN 80 LF FROM THE TRUNK OF A CANOPY TREE.

## GENERAL GRADING AND PLANTING NOTES

- BY SUBMITTING A PROPOSAL FOR THE LANDSCAPE PLANTING SCOPE OF WORK, THE CONTRACTOR CONFIRMS THAT HE HAS READ, AND WILL COMPLY WITH, THE ASSOCIATED NOTES, SPECIFICATIONS, AND DETAILS WITH THIS PROJECT.
- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL EXISTING VEGETATION (EXCEPT WHERE NOTED TO REMAIN).
- IN THE CONTEXT OF THESE PLANS, NOTES, AND SPECIFICATIONS, "FINISH GRADE" REFERS TO THE FINAL ELEVATION OF THE SOIL SURFACE (NOT TOP OF MULCH) AS INDICATED ON THE GRADING PLANS.
  - BEFORE STARTING WORK, THE LANDSCAPE CONTRACTOR SHALL VERIFY THAT THE ROUGH GRADES OF ALL LANDSCAPE AREAS ARE WITHIN +/-0.1' OF FINISH GRADE. SEE SPECIFICATIONS FOR MORE DETAILED INSTRUCTION ON TURF AREA AND PLANTING BED PREPARATION.
  - CONSTRUCT AND MAINTAIN FINISH GRADES AS SHOWN ON GRADING PLANS, AND CONSTRUCT AND MAINTAIN SLOPES AS RECOMMENDED BY THE GEOTECHNICAL REPORT. ALL LANDSCAPE AREAS SHALL HAVE POSITIVE DRAINAGE AWAY FROM STRUCTURES AT THE MINIMUM SLOPE SPECIFIED IN THE REPORT AND ON THE GRADING PLANS, AND AREAS OF POTENTIAL PONDING SHALL BE REGARDED TO BLEND IN WITH THE SURROUNDING GRADES AND ELIMINATE PONDING POTENTIAL.
  - THE LANDSCAPE CONTRACTOR SHALL DETERMINE WHETHER OR NOT THE EXPORT OF ANY SOIL WILL BE NEEDED, TAKING INTO ACCOUNT THE ROUGH GRADE PROVIDED, THE AMOUNT OF SOIL AMENDMENTS TO BE ADDED (BASED ON A SOIL TEST, PER SPECIFICATIONS), AND THE FINISH GRADES TO BE ESTABLISHED.
  - ENSURE THAT THE FINISH GRADE IN SHRUB AREAS IMMEDIATELY ADJACENT TO WALKS AND OTHER WALKING SURFACES, AFTER INSTALLING SOIL AMENDMENTS, IS 3" BELOW THE ADJACENT FINISH SURFACE, IN ORDER TO ALLOW FOR PROPER MULCH DEPTH. TAPER THE SOIL SURFACE TO MEET FINISH GRADE, AS SPECIFIED ON THE GRADING PLANS, AT APPROXIMATELY 18" AWAY FROM THE WALKS.
  - ENSURE THAT THE FINISH GRADE IN TURF AREAS IMMEDIATELY ADJACENT TO WALKS AND OTHER WALKING SURFACES, AFTER INSTALLING SOIL AMENDMENTS, IS 1" BELOW THE FINISH SURFACE OF THE WALKS. TAPER THE SOIL SURFACE TO MEET FINISH GRADE, AS SPECIFIED ON THE GRADING PLANS, AT APPROXIMATELY 18" AWAY FROM THE WALKS.
  - SHOULD ANY CONFLICTS AND/OR DISCREPANCIES ARISE BETWEEN THE GRADING PLANS, GEOTECHNICAL REPORT, THESE NOTES AND PLANS, AND ACTUAL CONDITIONS, THE CONTRACTOR SHALL IMMEDIATELY BRING SUCH ITEMS TO THE ATTENTION OF THE LANDSCAPE ARCHITECT, GENERAL CONTRACTOR, AND OWNER.
- ALL PLANT LOCATIONS ARE DIAGRAMMATIC. ACTUAL LOCATIONS SHALL BE VERIFIED WITH THE LANDSCAPE ARCHITECT OR DESIGNER PRIOR TO PLANTING. THE LANDSCAPE CONTRACTOR SHALL ENSURE THAT ALL REQUIREMENTS OF THE PERMITTING AUTHORITY ARE MET (I.E., MINIMUM PLANT QUANTITIES, PLANTING METHODS, TREE PROTECTION METHODS, ETC.).
- THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR DETERMINING PLANT QUANTITIES; PLANT QUANTITIES SHOWN ON LEGENDS AND CALLOUTS ARE FOR GENERAL INFORMATION ONLY. IN THE EVENT OF A DISCREPANCY BETWEEN THE PLAN AND THE PLANT LEGEND, THE PLANT QUANTITY AS SHOWN ON THE PLAN (FOR INDIVIDUAL SYMBOLS) OR CALLOUT (FOR GROUNDCOVER PATTERNS) SHALL TAKE PRECEDENCE.
- NO SUBSTITUTIONS OF PLANT MATERIALS SHALL BE ALLOWED WITHOUT THE WRITTEN PERMISSION OF THE LANDSCAPE ARCHITECT. IF SOME OF THE PLANTS ARE NOT AVAILABLE, THE LANDSCAPE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT IN WRITING (VIA PROPER CHANNELS).
- THE CONTRACTOR SHALL, AT A MINIMUM, PROVIDE REPRESENTATIVE PHOTOS OF ALL PLANTS PROPOSED FOR THE PROJECT. THE CONTRACTOR SHALL ALLOW THE LANDSCAPE ARCHITECT AND THE OWNER/OWNER'S REPRESENTATIVE TO INSPECT, AND APPROVE OR REJECT, ALL PLANTS DELIVERED TO THE JOBSITE. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS FOR SUBMITTALS.
- CONTRACTOR SHALL PROVIDE AND INSTALL SOLID SOD IN ALL RIGHT-OF-WAYS AND PARKWAYS (UNLESS NOT ALLOWED BY THE LOCAL JURISDICTION) AND SHALL PROVIDE WATERING AND MAINTENANCE UNTIL THE FURNISH IS ESTABLISHED AND HAS BEEN ACCEPTED BY OWNER.
- THE CONTRACTOR SHALL MAINTAIN THE LANDSCAPE IN A HEALTHY CONDITION FOR 90 DAYS AFTER ACCEPTANCE BY THE OWNER. REFER TO SPECIFICATIONS FOR CONDITIONS OF ACCEPTANCE FOR THE START OF THE MAINTENANCE PERIOD, AND FOR FINAL ACCEPTANCE AT THE END OF THE MAINTENANCE PERIOD.
- SEE SPECIFICATIONS AND DETAILS FOR FURTHER REQUIREMENTS.

## ROOT BARRIERS

THE CONTRACTOR SHALL INSTALL ROOT BARRIERS NEAR ALL NEWLY-PLANTED TREES THAT ARE LOCATED WITHIN FIVE (5) FEET OF PAVING, CURBS, WATER, STORM, OR SANITARY SEWER UTILITIES. ROOT BARRIERS SHALL BE "CENTURY" OR "DEEP-ROOT" 24" DEEP PANELS (OR EQUAL). BARRIERS SHALL BE LOCATED IMMEDIATELY ADJACENT TO HARDCAPES. INSTALL PANELS PER MANUFACTURER'S RECOMMENDATIONS. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR USE ROOT BARRIERS OF A TYPE THAT COMPLETELY ENCIRCLE THE ROOTBALL.

## MULCHES

AFTER ALL PLANTING IS COMPLETE, CONTRACTOR SHALL INSTALL 2" THICK LAYER OF 1-1/2" SHREDDED WOOD MULCH, NATURAL (UNDYED), OVER LANDSCAPE FABRIC IN ALL PLANTING AREAS (EXCEPT FOR TURF AND SEEDED AREAS). CONTRACTOR SHALL SUBMIT SAMPLES OF ALL MULCHES TO LANDSCAPE ARCHITECT AND OWNER FOR APPROVAL PRIOR TO CONSTRUCTION. ABSOLUTELY NO EXPOSED GROUND SHALL BE LEFT SHOWING ANYWHERE ON THE PROJECT AFTER MULCH HAS BEEN INSTALLED (SUBJECT TO THE CONDITIONS AND REQUIREMENTS OF THE "GENERAL GRADING AND PLANTING NOTES" AND SPECIFICATIONS).

## PLANTING & IRRIGATION GUARANTEE

THE LANDSCAPE CONTRACTOR SHALL GUARANTEE THAT ALL NEWLY INSTALLED AND EXISTING PLANTS SHALL SURVIVE FOR ONE YEAR AFTER FINAL OWNER ACCEPTANCE OF THE INSTALLATION WORK. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR APPROPRIATE WATERING OF THE LANDSCAPE THROUGH INSTALLATION OF A PROPERLY DESIGNED IRRIGATION SYSTEM. THE OWNER SHALL APPROVE THE SYSTEM DESIGN BEFORE INSTALLATION OF PLANTS OR IRRIGATION.

## LANDSCAPE PLAN

LOT 18, BLOCK A, CREEKSIDE COMMONS ADDITION

NWC STATE HIGHWAY 205 & F.M. 549  
A 0.936 ACRE TRACT OF LAND IN THE  
WILLIAM W. FORD SURVEY, ABST. NO 80  
CITY OF ROCKWALL, ROCKWALL  
COUNTY, TEXAS  
CITY PROJECT #SP2025-039  
October 6, 2025

APPROVED:  
I hereby certify that the above and foregoing site plan for a development in the City of Rockwall, Texas, was approved by the Planning & Zoning Commission of the City of Rockwall on the \_\_\_\_ day of \_\_\_\_ 2025.

WITNESS OUR HANDS, this \_\_\_\_ day of \_\_\_\_ 2025.

Planning & Zoning Commission, Chairman \_\_\_\_\_ Director of Planning and Zoning \_\_\_\_\_

LANDSCAPE PLAN

TACO BELL  
NWC STATE HIGHWAY 205 AND FM 549  
ROCKWALL, TEXAS 75032

SHEET

LP-1

ENGINEER/APPLICANT  
THE DIMENSION GROUP  
10755 SANDHILL ROAD  
DALLAS, TX 75238  
PHONE: (214) 343-9460  
CONTACT: KEATON L. MAI, PE

OWNER  
PRUDENT DEVELOPMENT  
10755 SANDHILL ROAD  
DALLAS, TEXAS 75238  
PHONE: (214) 271-4630  
CONTACT: MICHAEL HAMPTON

DEVELOPER  
VALLEY BELLS ENTERPRISES, LLC  
101 E. CHEROKEE STREET  
JACKSONVILLE, TX 75766  
PHONE: (903) 586-1524  
CONTACT: MIKE STRANSBERRY

## PLANTING SPECIFICATIONS

### GENERAL

- A. QUALIFICATIONS OF LANDSCAPE CONTRACTOR
  - 1. ALL LANDSCAPE WORK SHOWN ON THESE PLANS SHALL BE PERFORMED BY A SINGLE FIRM PROFESSIONAL LANDSCAPE CONTRACTOR.
  - 2. A LIST OF SUCCESSFULLY COMPLETED PROJECTS OF THIS TYPE, SIZE AND NATURE MAY BE REQUESTED BY THE OWNER FOR FURTHER QUALIFICATION MEASURES.
  - 3. THE LANDSCAPE CONTRACTOR SHALL HOLD A VALID NURSERY AND FLORAL CERTIFICATE ISSUED BY THE TEXAS DEPARTMENT OF AGRICULTURE, AS WELL AS OPERATE UNDER A COMMERCIAL PESTICIDE APPLICATOR LICENSE ISSUED BY EITHER THE TEXAS DEPARTMENT OF AGRICULTURE OR THE TEXAS STRUCTURAL PEST CONTROL BOARD.
- B. SCOPE OF WORK
  - 1. WORK COVERED BY THE CONTRACTOR SHALL INCLUDE THE FURNISHING AND PAYMENT OF ALL MATERIALS, LABOR, EQUIPMENT, EQUIPMENT LICENSES, TAXES AND ANY OTHER ITEMS THAT MAY BE NECESSARY FOR THE EXECUTION, INSTALLATION AND COMPLETION OF ALL WORK, SPECIFIED HEREIN AND / OR SHOWN ON THE LANDSCAPE PLANS, NOTES, AND DETAILS.
  - 2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE LAWS, CODES AND REGULATIONS OF THE STATE AND LOCAL JURISDICTION OVER SUCH WORK, INCLUDING ALL INSPECTIONS AND PERMITS REQUIRED BY FEDERAL, STATE AND LOCAL AUTHORITIES IN SUPPLY, TRANSPORTATION AND INSTALLATION OF MATERIALS.
  - 3. THE LANDSCAPE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITY LINES (WATER, SEWER, ELECTRICAL, TELEPHONE, GAS, CABLE, TELEVISION, ETC.) PRIOR TO THE START OF ANY WORK.

### PRODUCTS

- A. ALL MANUFACTURED PRODUCTS SHALL BE NEW.
- B. CONTAINER AND BALED-AND-BURLAFFED PLANTS:
  - 1. FURRY LEAFED AND BARE ROOT PLANTS CONFORMING WITH ANSI Z60.1-2014. PROVIDE WELL-SHAPED, FULLY BRANCHED, HEALTHY, WOODY STOCK FREE OF DISEASE, INSECTS, EGGS, LARVAE, AND DEFECTS SUCH AS KNOTS, SON, SCALD, INJURIES, ABRASIONS, AND DISFIGUREMENT. ALL PLANTS WITHIN A SPECIES SHALL HAVE SIMILAR SIZE, AND SHALL BE OF A FORM TYPICAL FOR THE SPECIES. ALL TREES SHALL BE OBTAINED FROM SOURCES WITHIN 200 MILES OF THE PROJECT SITE, AND WITHIN SIMILAR CLIMATE ZONES.
  - 2. ROOT SYSTEMS SHALL BE HEALTHY, DENSELY BRANCHED ROOT SYSTEMS, NON-POUNDED, FREE FROM ENCIRCLING AND/OR BURLAFFED ROOTS, AND FREE FROM ANY OTHER ROOT DEFECTS (SUCH AS J-SHAPED ROOTS).
  - 3. TREES PLANTED FROM CONTAINERS OR BALED-AND-BURLAFFED (B&B), UNLESS SPECIFIED ON THE PLANTING LEGEND, BARE-ROOT TREES ARE NOT ACCEPTABLE.
  - 4. ANY PLANT DEEMED UNACCEPTABLE BY THE LANDSCAPE ARCHITECT OR OWNER SHALL BE IMMEDIATELY REMOVED FROM THE SITE AND SHALL BE REPLACED WITH AN ACCEPTABLE PLANT OF LIKE TYPE AND SIZE AT THE CONTRACTOR'S OWN EXPENSE. ANY PLANTS APPEARING TO BE UNHEALTHY, DISEASED, OR DEFECTIVE SHALL BE REMOVED AND REPLACED BY THE LANDSCAPE ARCHITECT AND OWNER SHALL BE THE SOLE JUDGES AS TO THE ACCEPTABILITY OF PLANT MATERIAL.
  - 5. ALL TREES SHALL BE STANDARD IN FORM, UNLESS OTHERWISE SPECIFIED. TREES WITH CENTRAL LEADERS WILL NOT BE ACCEPTED IF LEADER IS DAMAGED OR REMOVED. PRUNE ALL DAMAGED TWIGS AFTER PLANTING.
  - 6. CALIPER MEASUREMENTS FOR STANDARD (SINGLE TRUNK) TREES SHALL BE AS FOLLOWS: SIX INCHES ABOVE THE ROOT FLARE FOR TREES UP TO AND INCLUDING FOUR INCHES IN CALIPER, AND TWELVE INCHES ABOVE THE ROOT FLARE FOR TREES EXCEEDING FOUR INCHES IN CALIPER.
  - 7. MULCH: THE CALIPER OF THE TREE SHALL BE USED TO DETERMINE THE OVERALL CALIPER. MEASURED FROM THE TOP OF THE ROOT BALL, WHICH CALIPER MEASUREMENTS ARE USED, THE CALIPER SHALL BE CALCULATED AS ONE-HALF OF THE SUM OF THE CALIPER OF THE THREE LARGEST TRUNKS.
  - 8. ANY TREE OR SHRUB SHOWN TO HAVE EXCESS SOIL PLACED ON TOP OF THE ROOT BALL, SO THAT THE ROOT FLARE HAS BEEN COMPLETELY COVERED, SHALL BE REJECTED.
  - 9. SEED: ALL SEED SHALL BE PLANTED IN THE SOIL, AND SHALL BE PLANTED WITH MAXIMUM PERCENTAGES OF PURITY, GERMINATION, AND MINIMUM PERCENTAGE OF SEED SEED AS INDICATED ON PLANS. EACH BAG OF SEED SHALL BE ACCOMPANIED BY A TAG FROM THE SUPPLIER INDICATING THE COMPOSITION OF THE SEED.
  - D. TOOLS: ALL PLANTING TOOLS SHALL BE OF SOFT FOAM TOPSOIL, FREE OF STONES LARGER THAN 1/4 INCH, FOREIGN MATTER, PLANTS, ROOTS, AND SEEDS.
  - E. COMPOST: WELL-COMPRESSED, STABLE, AND WEED-FREE ORGANIC MATTER, pH RANGE OF 5.5 TO 8; MOISTURE CONTENT 35 TO 55 PERCENT BY WEIGHT; 100 PERCENT PASSING THROUGH 3/4-INCH SIEVE; SOILLESS CONTENT OF 5 TO 10 DECISEMIMETRUM; NOT EXCEEDING 0.5 PERCENT INERT CONTAMINANTS AND FREE OF SUBSTANCES TOXIC TO PLANTINGS. NO MANURE OR ANIMAL-BASED PRODUCTS SHALL BE USED.
  - F. FERTILIZER: GRANULAR FERTILIZER CONSISTING OF NITROGEN, PHOSPHORUS, POTASSIUM, AND OTHER NUTRIENTS IN PROPER QUANTITIES, AMOUNTS, AND RELEASE RATES RECOMMENDED IN A SOIL REPORT FROM A QUALIFIED SOIL TESTING AGENT, RETAINING.
  - G. MULCH: SIZE AND TYPE AS INDICATED ON PLANS, FREE FROM DELETERIOUS MATERIALS AND SUITABLE AS A TOP DRESSING OF TREES AND SHRUBS.
  - H. TREE STAKING AND GUYLING
    - 1. GUYLING: GREEN METAL T-POSTS.
    - 2. GUY AND TIE WIRE: ASTM A 61, CLASS 1, GALVANIZED-STEEL WIRE, 2-STRAND, TWISTED, 0.106 INCH DIAMETER.
    - 3. STRAP CHAIN GUARD: EINSTEIN NYLON OR COTTON WAS AT LEAST 1-1/2 INCH WIDE, WITH ONE INCH OF OVERLAP TO PROTECT TREES FROM DAMAGE.
    - J. STEEL EDGING: PROFESSIONAL STEEL EDGING, 14 GAUGE THICK X 4 INCHES WIDE, FACTORY PAINTED DARK GREEN. ACCEPTABLE MANUFACTURERS INCLUDE COLMET OR APPROVED EQUAL.
    - K. PRE-EMERGENT HERBICIDES: ANY GRANULAR, NON-STAINING PRE-EMERGENT HERBICIDE THAT IS LABELED FOR THE SPECIFIC ORNAMENTALS OR TURF ON WHICH IT WILL BE UTILIZED. PRE-EMERGENT HERBICIDES SHALL BE APPLIED PER THE MANUFACTURER'S LABELED RATES.

### METHODS

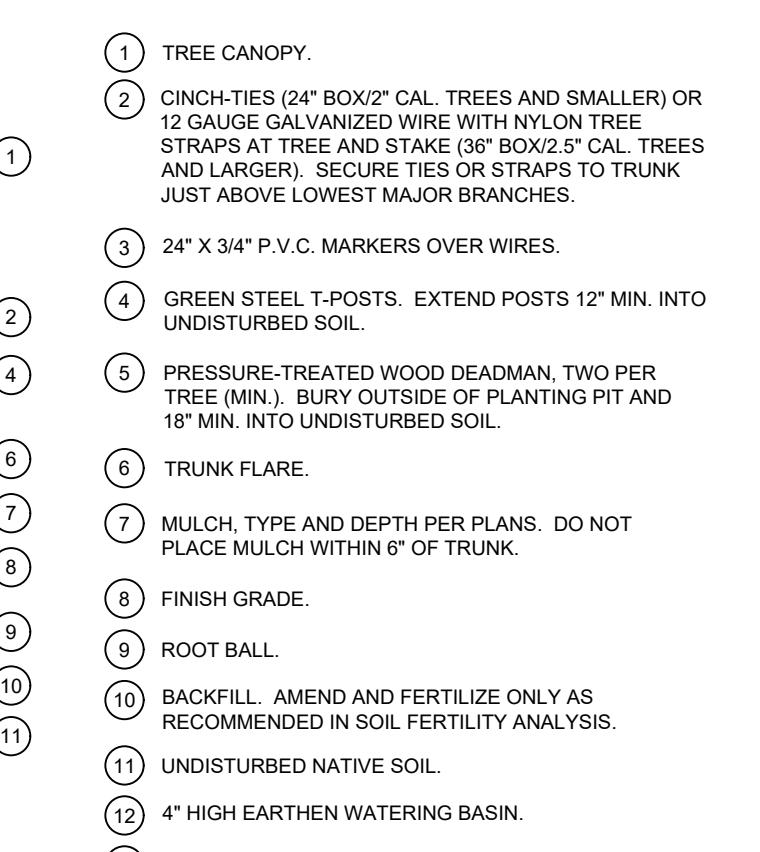
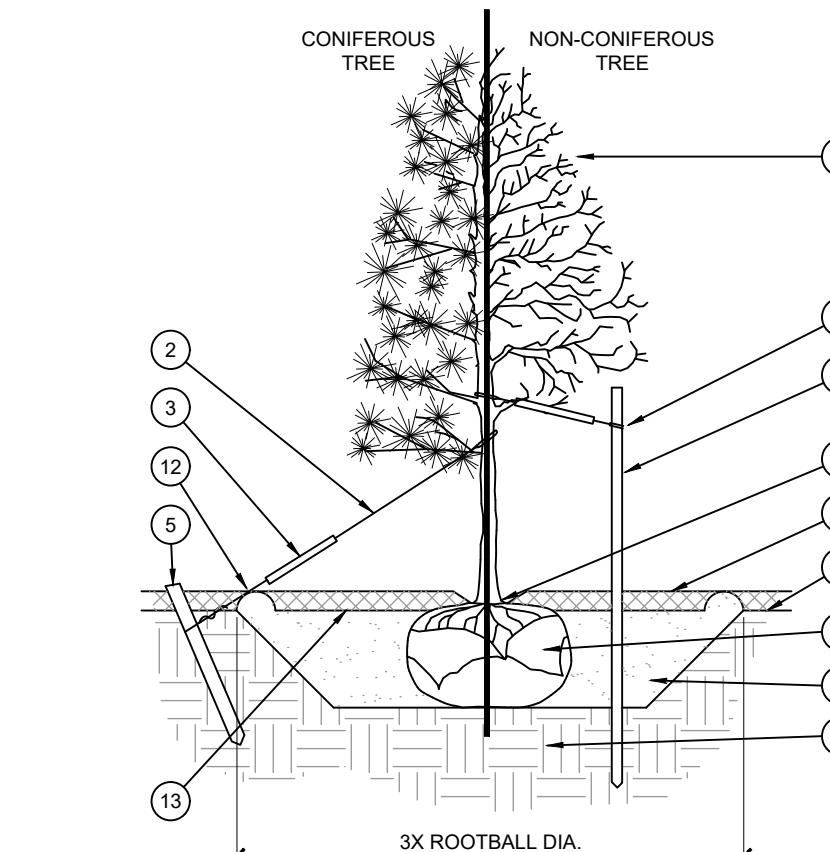
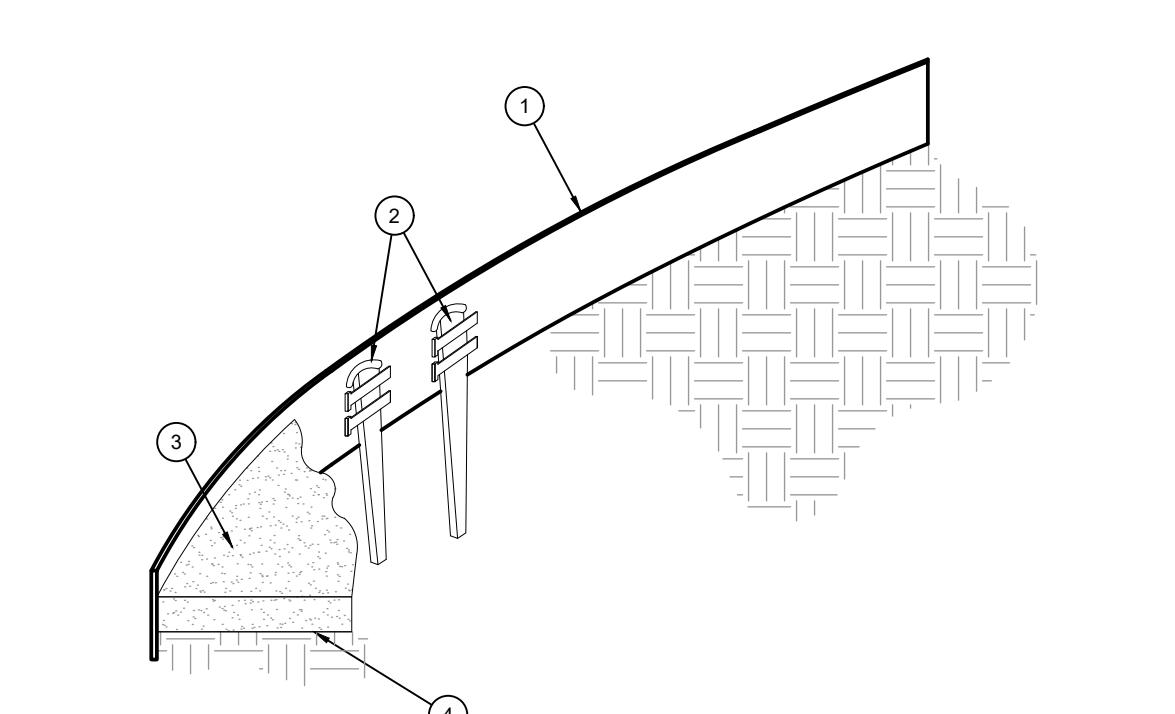
- A. SOIL PREPARATION
  - 1. BEFORE STARTING WORK, THE LANDSCAPE CONTRACTOR SHALL VERIFY THAT THE GRADE OF ALL LANDSCAPE AREAS ARE WITHIN +/- 1' OF FINISH GRADE. THE CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY SHOULD ANY DISCREPANCIES EXIST.
  - 2. SOIL TESTING
    - a. AFTER FINISH GRADES HAVE BEEN ESTABLISHED, CONTRACTOR SHALL HAVE SOIL SAMPLES FROM THE PROJECT'S LANDSCAPE AREAS TESTED BY AN ESTABLISHED SOIL TESTING LABORATORY. EACH SAMPLE SHALL BE TAKEN FROM A DIFFERENT LOCATION AND SHALL BE ONE QUARTER CUBIC YARD FROM BETWEEN THE FINISH SURFACE AND 6" DEPTH. IF NO SAMPLE LOCATIONS ARE INDICATED ON THE PLANS, THE CONTRACTOR SHALL TAKE A MINIMUM OF THREE SAMPLES FROM VARIOUS REPRESENTATIVE LOCATIONS FOR TESTING.
    - b. THE CONTRACTOR SHALL HAVE THE SOIL TEST LABORATORY PROVIDE RESULTS FOR THE following: SOIL CONSTITUENTS, CLASS, GROSS AND FINE ORGANIC MATTER CONTENT, SALT (CEC), LIME, SODIUM ABSORPTION RATIO (SAR) AND BORON CONTENT.
    - c. THE CONTRACTOR SHALL ALSO SUBMIT THE PLANT'S PLANT LIST TO THE LABORATORY ALONG WITH THE SOIL SAMPLES.
    - d. THE CONTRACTOR PROVIDED BY THE LABORATORY SHALL CONTAIN RECOMMENDATIONS FOR THE FOLLOWING (AS APPROPRIATE): SEPARATE SOIL PREPARATION AND BACKFILL MIX, RECOMMENDATIONS FOR GENERAL ORNAMENTAL PLANTS, XERIC PLANTS, TURF, AND NATIVE SEED, AS WELL AS PRE-PLANT FERTILIZER APPLICATIONS AND RECOMMENDATIONS FOR ANY OTHER PLANT TYPES TESTED. THE CONTRACTOR SHALL ALSO PROVIDE A FERTILIZER PROGRAM FOR THE ESTABLISHED PERENNIAL AND FOR LONG-TERM MAINTENANCE.
  - 3. THE CONTRACTOR SHALL INSTALL SOIL AMENDMENTS AND FERTILIZERS PER THE SOIL REPORT RECOMMENDATIONS. ANY CHANGE IN COST DUE TO THE SOIL REPORT RECOMMENDATIONS, EITHER INCREASE OR DECREASE, SHALL BE SUBMITTED TO THE OWNER WITH THE REPORT.
  - 4. FOR TURF AREAS, THE FINISH GRADE SHALL CONSIST OF THE FOLLOWING:
    - a. TURF: INCORPORATE THE FOLLOWING AMENDMENTS INTO THE TOP 8" OF SOIL BY MEANS OF ROTOTILLING AFTER CROSS-RIPPING:
      - i. NITROGEN STABILIZED ORGANIC AMENDMENT - 4 CU. YDS. PER 1,000 S.F.
      - ii. 10-10-10 PLANT TURF FERTILIZER (10-10-10 KINNAR, SLOW RELEASE, ORGANIC) - 15 LBS PER 1,000 S.F.
      - iii. "CLAY BUSTER" OR EQUAL - USE MANUFACTURER'S RECOMMENDED RATE.
      - b. TREES, SHRUBS, AND PERENNIALS: INCORPORATE THE FOLLOWING AMENDMENTS INTO THE TOP 8" OF SOIL BY MEANS OF ROTOTILLING AFTER CROSS-RIPPING:
        - i. NITROGEN STABILIZED ORGANIC AMENDMENT - 4 CU. YDS. PER 1,000 S.F.
        - ii. 12-12-12 FERTILIZER (OR SIMILAR, ORGANIC, SLOW RELEASE) - 10 LBS. PER CU. YD.
        - iii. "CLAY BUSTER" OR EQUAL - USE MANUFACTURER'S RECOMMENDED RATE.
    - b. IN THE CONTEXT OF THESE PLANS, NOTES, AND SPECIFICATIONS, "FINISH GRADE" REFERS TO THE FINAL ELEVATION OF THE SOIL SURFACE (NOT TOP OF MULCH) AS INDICATED ON THE GRADING PLANS.
    - c. BEFORE STARTING WORK, THE LANDSCAPE CONTRACTOR SHALL VERIFY THAT THE ROUGH GRADES OF ALL LANDSCAPE AREAS ARE WITHIN +/- 1' OF FINISH GRADE. SEE SPECIFICATIONS FOR THE ROUGH GRADE OF ALL LANDSCAPE AREAS. PLANTING AREAS SHALL BE GRADED AND CONSTRUCT AND MAINTAIN FINISH GRADES AS SHOWN ON GRADING PLANS, AND CONSTRUCT AND MAINTAIN SLOPES AS RECOMMENDED BY THE GEOTECHNICAL REPORT. ALL LANDSCAPE AREAS SHALL HAVE POSITIVE DRAINAGE AWAY FROM STRUCTURES AT THE MINIMUM SLOPE INDICATED IN THE REPORT AND IN THE GRADING PLANS, AND AREAS OF POTENTIAL PONDING SHALL BE REGRADED TO BLEND IN WITH THE SURROUNDING GRADES AND ELIMINATE PONDING POTENTIAL.
    - d. THE LANDSCAPE CONTRACTOR SHALL DETERMINE WHETHER OR NOT THE EXPORT OF ANY SOIL WILL BE REQUIRED AND, IF SO, TAKE INTO ACCOUNT THE ROUGH GRADE PROVIDED, THE AMOUNT OF SOIL AMENDMENT TO BE ADDED BASED ON A SOIL TEST, PER SPECIFICATIONS, AND THE FINISH GRADES TO BE ESTABLISHED.
    - e. AFTER INSTALLING SOIL AMENDMENTS IN SHRUB AREAS, AND IN ORDER TO ALLOW FOR PROPER MULCH DEPTH, ENSURE THAT THE FINISH GRADE IMMEDIATELY ADJACENT TO WALKS AND OTHER SURFACES IS APPROXIMATELY 1" ABOVE THE SURFACE.
    - f. AFTER INSTALLING SOIL AMENDMENTS IN TURF AREAS, ENSURE THAT THE FINISH GRADE IN AREA IMMEDIATELY ADJACENT TO WALKS AND OTHER WALKING SURFACES IS 1" BELOW FINISH GRADE. TAPER THE FINISH GRADE ATTACHED TO THE SURFACE OF THE TURF AREA.
    - g. SHOULD ANY CONFLICTS AND/OR DISCREPANCIES ARISE BETWEEN THE GRADING PLANS, GEOTECHNICAL REPORT, THESE NOTES AND PLANS, AND ACTUAL CONDITIONS, THE CONTRACTOR SHALL IMMEDIATELY BRING SUCH ITEMS TO THE ATTENTION OF THE LANDSCAPE ARCHITECT, GENERAL CONTRACTOR, AND OWNER.
    - h. ONCE SOIL PREPARATION IS COMPLETE, THE LANDSCAPE CONTRACTOR SHALL ENSURE THAT THERE ARE NO DEBRIS, TRASH, OR STONES LARGER THAN 1" REMAINING IN THE TOP 8" OF SOIL.

### CAUTION NOTICE TO CONTRACTORS

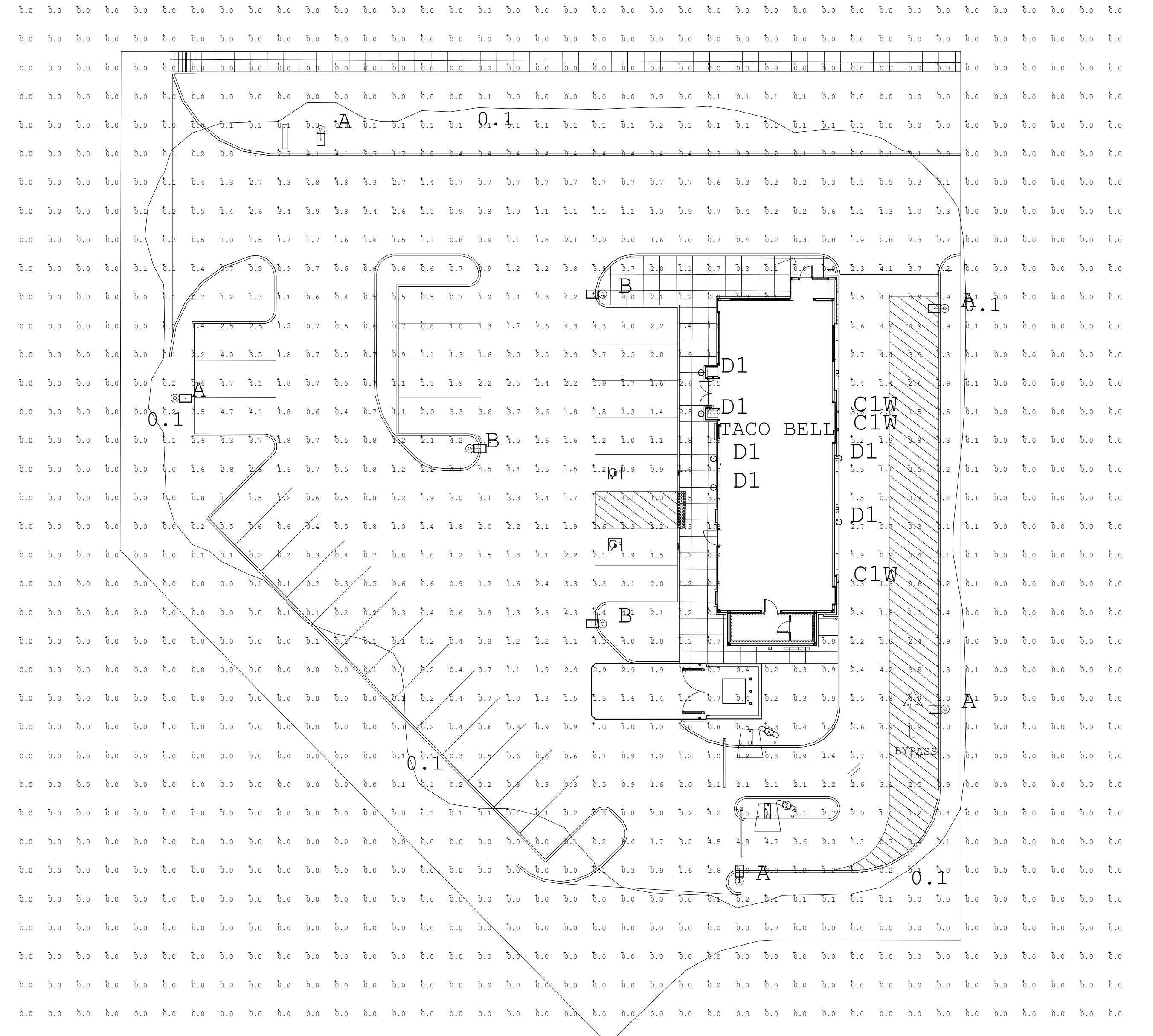
THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUCH CALL 811 AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THESE PLANS.

- B. SUBMITTALS
  - 1. THE CONTRACTOR SHALL PROVIDE SUBMITTALS AND SAMPLES, IF REQUIRED, TO THE LANDSCAPE ARCHITECT, AND RECEIVE APPROVAL IN WRITING FOR SUCH SUBMITTALS BEFORE WORK COMMENCES.
  - 2. SUBMITTALS SHALL INCLUDE PHOTOS OF PLANTS WITH A RULER OR MEASURING STICK FOR SCALE, PLANTING NOTES, AND A LIST OF ALL MATERIALS, INCLUDING FERTILIZERS, AMENDMENTS, AND PREPARATION RECOMMENDATIONS FROM THE TESTING LAB (INCLUDING COMPOST AND FERTILIZER RATES AND TYPES, AND OTHER AMENDMENTS FOR TREES/SHRUB, TURF, AND SEED AREAS AS MAY BE APPROPRIATE).
  - 3. SUBMITTALS SHALL ALSO INCLUDE MANUFACTURER CUT SHEETS FOR PLANTING ACCESSORIES SUCH AS TREE STAKES AND TIRES, EDGING, AND LANDSCAPE FABRICS (IF ANY).
  - 4. WHERE MULTIPLE ITEMS ARE SHOWN ON A PAGE, THE CONTRACTOR SHALL CLEARLY INDICATE THE ITEM BEING CONSIDERED.
- C. GENERAL PLANTING
  - 1. EXCEPT IN AREAS TO BE PLANTED WITH ORNAMENTAL GRASSES, APPLY PRE-EMERGENT HERBICIDES AT THE MANUFACTURER'S RECOMMENDED RATE.
  - 2. TRENCHING NEAR EXISTING TREES
    - a. DO NOT DISTURB ROOTS 1-1/2" AND LARGER IN DIAMETER WITHIN THE CRITICAL ROOT ZONE (CRZ) OF EXISTING TREES, AND SHALL EXERCISE ALL POSSIBLE CARE AND PRECAUTIONS TO AVOID INJURY TO ROOTS, TRUNKS, AND BRANCHES. THE CRZ IS DEFINED AS A CIRCULAR AREA EXTENDING OUTWARD FROM THE TREE TRUNK, WITH A RADIUS EQUAL TO ONE EVERY 1' OF TRUNK DIAMETER AT BREAST HEIGHT (4.5' ABOVE THE AVERAGE GRADE AT THE TIME).
    - b. ALL EXCAVATION WITHIN THE CRZ SHALL BE PERFORMED USING HAND TOOLS. NO MACHINE EXCAVATION OR TRENCHING OF ANY KIND SHALL BE ALLOWED WITHIN THE CRZ.
    - c. ALTERATION OR REMOVAL OF PIPE OR WOOD TRENCH ROOTS 1-1/2" AND LARGER IN DIAMETER, WHERE SUCH ROOTS ARE LOCATED IN THE PLANTING PIT, SHALL BE TUNNELLED UNDER THE PIPE, TUNNEL UNDER THE ROOTS, WRAP EXPOSED ROOTS WITH SEVERAL LAYERS OF BURLAP AND KEEP MOIST. CLOSE ALL TRENCHES WITHIN THE CANOPY DRIP LINES WITHIN 24 HOURS.
    - d. ALL SEVERED ROOTS SHALL BE HAND PRUNED WITH SHARP TOOLS AND ALLOWED TO DRY. DO NOT USE ANY SORT OF SEALERS OR WOUND PAINTS.
  - 3. TREE PLANTING
    - a. THREE PLANTING HOLES SHALL BE EXCAVATED TO MINIMUM WIDTH OF TWO TIMES THE WIDTH OF THE ROOTBALL, AND TO A DEPTH EQUAL TO THE DEPTH OF THE ROOTBALL LESS TWO TO FOUNCES.
    - b. STAKE THE PLANTING HOLE IN THE DIRECTION OF PREVAILING WINDS, AND PLANT THE TREE IN THE DIRECTION OF THE WIND. REMOVE ANY GLAZING THAT MAY HAVE BEEN CAUSED DURING THE EXCAVATION OF THE HOLE.
    - c. FOR CONTAINER AND B&B TREES, TO REMOVE ANY POTENTIALLY GIRDLING ROOTS AND OTHER ROOT DEFECTS, THE CONTRACTOR SHALL REMOVE A 1" LAYER OFF OF THE SIDES AND BOTTOM OF THE ROOTBALL, AND PLANT THE TREE IN THE DIRECTION OF THE WIND. DO NOT "TEASE" ROOTS FROM THE ROOTBALL.
    - d. INSTALL THE TREE ON UNDISTURBED SUBGRADE SO THAT THE TOP OF THE ROOTBALL IS TWO TO FOUR INCHES ABOVE THE SURROUNDING GRADE.
    - e. BACKFILL THE HOLE UTILIZING THE EXISTING TOPSOIL FROM ON-SITE. ROCKS LARGER THAN 1" SHALL BE PLACED ON THE BOTTOM OF THE HOLE, AND REMOVED FROM THE HOLE. ADDITIONAL SOIL IS REQUIRED TO ACCOMPLISH THIS. USE STORED TOPSOIL FROM ON-SITE OR IMPORT ADDITIONAL TOPSOIL FROM OFF-SITE AT NO ADDITIONAL COST TO THE OWNER. IMPORTED TOPSOIL SHALL BE OF SIMILAR TEXTURAL CLASS AND COMPOSITION IN THE ON-SITE SOIL.
    - f. PLACEMENT OF THE PLANTING HOLE: PLANT THE TREE IN THE DIRECTION OF THE WIND. PLACEMENT OF THE PLANTING HOLE SHALL BE IN THE CENTER OF THE PLANTING BED (NOT ON SLOPES).
    - g. REQUIRE STAKES TO KEEP TREES UPRIGHT. SHOULD STAKING BE REQUIRED, THE TOTAL NUMBER OF TREE STAKES (BEYOND THE MINIMUMS LISTED BELOW) WILL BE LEFT TO THE LANDSCAPE CONTRACTOR'S DISCRETION. SHOULD ANY TREES FALL OR LEAN, THE LANDSCAPE CONTRACTOR SHALL STRAIGHTEN THE TREE OR REPLACE IT SHOULD IT BECOME DAMAGED. TREE STAKING SHALL ADHERE TO THE FOLLOWING GUIDELINES:
      - i. 1-2" TREES: TWO STAKES PER TREE
      - ii. 2-1/2"-4" TREES: THREE STAKES PER TREE
      - iii. TREES OVER 4" CALIPER: GUY AS NEEDED
      - iv. FOR BAB TREES: THREE STAKES PER TREE MINIMUM, QUANTITY AND POSITIONS AS NEEDED TO STABILIZE THE TREE.
    - h. UPON COMPLETION OF PLANTING, CONSTRUCT AN EARTH WATERING BASIN AROUND THE TREE. COVER THE INTERIOR OF THE TREE RING WITH MULCH (TYPE AND DEPTH PER PLANS). UNDER NO CIRCUMSTANCES SHALL THE MULCH BE PLACED ON THE TRUNK OR ON THE PLANTING HOLE.
  - 4. SHRUB, PERENNIAL, AND GROUNDCOVER PLANTING
    - a. DIG THE PLANTING HOLE TWICE AS WIDE AND 2" LESS DEEP THAN EACH PLANT'S ROOTBALL. INSTALL THE PLANT IN THE HOLE. BACKFILL AROUND THE PLANT WITH SOIL AMENDED PER SOIL TEST RECOMMENDATIONS.
    - b. PLANT THE PLANT AND COMPLETE. INSTALL MULCH (TYPE AND DEPTH PER PLANS) OVER ALL PLANTING AREAS EXCEPT FOR SODDED AND SEDED AREAS, LEAVING NO EXPOSED GROUND.
  - F. SODDING
    - 1. SO VARIETY TO BE AS SPECIFIED ON THE LANDSCAPE PLAN.
    - 2. LAY THE SOD WITHIN 24 HOURS FROM THE TIME OF STRIPPING. DO NOT LAY IF THE GROUND IS FROZEN.
    - 3. LAY THE SOD TO FORM A SOLID MASS WITH TIGHTLY FITTED JOINTS. BUTT EDGES AND SIDES OF SOD STRIPS.
    - 4. ROLL THE SOD ENSURE GOOD CONTACT OF THE SOD'S ROOT SYSTEM WITH THE SOIL.
    - 5. WATER THE SOD THOROUGHLY WITH A FINE SPRAY IMMEDIATELY AFTER PLANTING TO OBTAIN AT LEAST SIX INCHES OF PENETRATION INTO THE SOIL BELOW THE SOD.
  - G. MULCH
    - 1. INSTALL MULCH TOPDRESSING, TYPE AND DEPTH PER MULCH NOTE, IN ALL PLANTING AREAS AND TREE TRUNKS.
    - 2. DO NOT INSTALL MULCH WITHIN 6" OF TREE ROOT FLARE AND WITHIN 24" OF HABITABLE STRUCTURES, EXCEPT AS MAY BE NOTED ON THESE PLANS. MULCH COVER WITHIN 6" OF CONCRETE WALKS AND CURBS SHALL NOT PROTRUDE ABOVE THE FINISH SURFACE OF THE WALKS AND CURBS. MULCH WITHIN 12" OF WALLS SHALL BE AT LEAST 3" LOWER THAN THE TOP OF WALL.
  - H. CLEAN UP
    - 1. DURING LANDSCAPE PREPARATION AND PLANTING, KEEP ALL PAVEMENT CLEAN AND ALL WORK AREAS IN A NEAT, ORDERLY CONDITION.
    - 2. REMOVE ALL EXCAVATED MATERIALS OFF THE PROJECT SITE.
  - I. INSPECTION AND ACCEPTANCE
    - 1. UPON COMPLETION OF THE WORK, THE LANDSCAPE CONTRACTOR SHALL PROVIDE THE SITE CLEAN, FREE OF DEBRIS AND TRASH, AND SUITABLE FOR USE AS INTENDED. THE LANDSCAPE CONTRACTOR SHALL PROVIDE THE OWNER WITH A COPY OF THE SITE TO DETERMINE FINISH ACCEPTANCE.
    - 2. WHEN THE INSPECTED PLANTING WORK DOES NOT MEET THE CONTRACT DOCUMENTS, THE LANDSCAPE CONTRACTOR SHALL REPLACE AND/OR REPAIR THE REJECTED WORK TO THE OWNER'S SATISFACTION WITHIN 24 HOURS.
    - 3. THE LANDSCAPE MAINTENANCE PERIOD WILL NOT COMMENCE UNTIL THE LANDSCAPE WORK HAS BEEN INSPECTED AND FOUND TO BE ACCEPTABLE. AT THAT TIME, A WRITTEN NOTICE OF FINAL ACCEPTANCE WILL BE ISSUED BY THE OWNER, AND THE MAINTENANCE AND GUARANTEE PERIODS WILL COMMENCE.
  - J. LANDSCAPE MAINTENANCE
    - 1. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL WORK SHOWN ON THESE PLANS FOR 90 DAYS BEYOND FINAL ACCEPTANCE OF ALL LANDSCAPE WORK BY THE OWNER. LANDSCAPE MAINTENANCE SHALL INCLUDE WEEKLY SITE VISITS FOR THE FOLLOWING ACTIONS (AS APPROPRIATE): PROPER PRUNING, RESTAKING OF TREES, RESTEPPING OF PLANTS THAT HAVE MOVED, REPAIR OF ANY PORTIONS OF THE IRRIGATION SYSTEM WHICH OPERATE IMPROPERLY, TREATMENT FOR INSECTS AND DISEASES, REMOVAL OF LITTER, REPAIRS TO THE IRRIGATION SYSTEM DUE TO FAULTY PARTS AND/OR WORKMANSHIP, AND THE IRIGATION SYSTEM IN PROPER WORKING ORDER, WITH SCHEDULING ADJUSTMENTS BY SEASON TO MAXIMIZE WATER CONSERVATION.
    - 2. SHOULD SEEDED AND/OR SODDED AREAS NOT BE COVERED BY AN AUTOMATIC IRRIGATION SYSTEM, THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING THESE AREAS AND OBTAINING A FULL, HEALTHY STAND OF PLANTS AT NO ADDITIONAL COST TO THE OWNER.
    - 3. TO ENSURE PLANT SURVIVAL AT THE END OF THE MAINTENANCE PERIOD, ALL OF THE FOLLOWING CONDITIONS MUST OCCUR:
      - a. THE LANDSCAPE SHALL SHOW ACTIVE, HEALTHY GROWTH (WITH EXCEPTIONS MADE FOR SEASONAL DORMANCY). ALL PLANTS NOT MEETING THIS CONDITION SHALL BE REJECTED AND PLACED BY THE LANDSCAPE CONTRACTOR PRIOR TO FINAL ACCEPTANCE.
      - b. ALL PLANT SURFACE SHALL BE CLEANED PRIOR TO FINAL ACCEPTANCE.
      - c. SODDED AREAS MUST BE ACTIVELY GROWING AND MUST REACH A MINIMUM HEIGHT OF 1 1/2 INCHES BEFORE FIRST MOWING. HYDROMULCHED AREAS SHALL SHOW ACTIVE, HEALTHY GROWTH. BARE AREAS LARGER THAN TWELVE SQUARE INCHES MUST BE RESCODDED OR RESEEDED (AS APPROPRIATE) PRIOR TO FINAL ACCEPTANCE. ALL SODDED TURF SHALL BE NEATLY MOVED.

- K. WARRANTY PERIOD, PLANT GUARANTEE AND REPLACEMENTS
  - 1. THE LANDSCAPE CONTRACTOR SHALL GUARANTEE ALL PLANTING MATERIALS, SEE PLANTING NOTES FOR TYPE AND MANUFACTURER, INSTALL PER MANUFACTURER'S SPECIFICATIONS.
  - 2. ONCE THE PLANTING WORK IS COMPLETED, THE LANDSCAPE CONTRACTOR SHALL MAINTAIN THE PLANTING AREA AND ALL PLANTING MATERIALS FOR A PERIOD OF ONE YEAR FROM THE DATE OF THE OWNER'S FINAL ACCEPTANCE (90 DAYS FOR ANNUAL PLANTS). THE CONTRACTOR SHALL REPLACE, AT HIS OWN EXPENSE AND TO THE SATISFACTION OF THE OWNER, ANY PLANTS WHICH DIE IN THAT TIME, OR REPAIR ANY PORTIONS OF THE IRRIGATION SYSTEM WHICH OPERATE IMPROPERLY.
  - 3. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACEMENT OF PLANTS WHEN PLANT DEATH CANNOT BE ATTRIBUTED DIRECTLY TO OVERWATERING OR OTHER DAMAGE BY HUMAN ACTIONS.
  - 4. PROVIDE A MINIMUM OF (2) COPIES OF RECORD DRAWINGS TO THE OWNER UPON COMPLETION OF WORK. A RECORD DRAWING IS A RECORD OF ALL CHANGES THAT OCCURRED IN THE FIELD AND THAT ARE DOCUMENTED THROUGH CHANGE ORDERS, ADDENDA, OR CONTRACTOR/CONSULTANT DRAWING MARKUPS.



**CAUTION NOTICE TO CONTRACTORS**  
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| Calculation Summary                      |      |     |     |         |         |
|--|------|-----|-----|---------|---------|
| Label                                    | Avg  | Max | Min | Avg/Min | Max/Min |
| EXISTING UTILITIES                       | 1.44 | 1.5 | 0.5 | N/A     | N/A     |
| PARKING LOT & DRIVE-THRU SURFACE         | 1.44 | 1.5 | 1.0 | N/A     | N/A     |
| LIGHT LEVELS ARE MAINTAINED FOOT-CANDLES |      |     |     |         |         |

| Luminaire Schedule |     |       |             |           |       |     |                    |                              |                           |
|--------------------|-----|-------|-------------|-----------|-------|-----|--------------------|------------------------------|---------------------------|
| Symbol             | Qty | Label | Arrangement | Luminaire | CLP   | CCF | Luminaire Mounting | Description                  |                           |
| █                  | 1   | A     | SINGLE      | 0.800     | 0.800 | 1.0 | 12                 | 8000-LED-075-15W-UNV-D100X48 | 100W-300W-15W-100W-100W   |
| █                  | 1   | B     | SINGLE      | 0.800     | 0.800 | 1.0 | 12                 | 8000-LED-075-15W-UNV-D100X48 | 100W-300W-15W-100W-100W   |
| █                  | 1   | C1W   | SINGLE      | 0.800     | 0.800 | 1.0 | 12                 | 8000-LED-075-15W-UNV-D100X48 | 100W-300W-15W-100W-100W   |
| █                  | 1   | D1    | SINGLE      | 0.800     | 0.800 | 1.0 | 12                 | 8000-LED-075-15W-UNV-D100X48 | 100W-300W-15W-100W-100W   |
| █                  | 1   | E     | SINGLE      | 0.800     | 0.800 | 1.0 | 12                 | 8000-LED-075-15W-UNV-D100X48 | 100W-300W-15W-100W-100W   |
| █                  | 1   | F     | SINGLE      | 0.800     | 0.800 | 1.0 | 12                 | 8000-LED-075-15W-UNV-D100X48 | 100W-300W-15W-100W-100W   |
| █                  | 1   | G     | SINGLE      | 0.800     | 0.800 | 1.0 | 12                 | 8000-LED-075-15W-UNV-D100X48 | 100W-300W-15W-100W-100W   |
| █                  | 1   | H     | SINGLE      | 0.800     | 0.800 | 1.0 | 12                 | 8000-LED-075-15W-UNV-D100X48 | 100W-300W-15W-100W-100W   |
| █                  | 1   | I     | SINGLE      | 0.800     | 0.800 | 1.0 | 12                 | 8000-LED-075-15W-UNV-D100X48 | 100W-300W-15W-100W-100W   |
| █                  | 1   | J     | SINGLE      | 0.800     | 0.800 | 1.0 | 12                 | 8000-LED-075-15W-UNV-D100X48 | 100W-300W-15W-100W-100W   |
| █                  | 1   | K     | SINGLE      | 0.800     | 0.800 | 1.0 | 12                 | 8000-LED-075-15W-UNV-D100X48 | 100W-300W-15W-100W-100W   |
| █                  | 1   | L     | SINGLE      | 0.800     | 0.800 | 1.0 | 12                 | 8000-LED-075-15W-UNV-D100X48 | 100W-300W-15W-100W-100W   |
| █                  | 1   | M     | SINGLE      | 0.800     | 0.800 | 1.0 | 12                 | 8000-LED-075-15W-UNV-D100X48 | 100W-300W-15W-100W-100W   |
| █                  | 1   | N     | SINGLE      | 0.800     | 0.800 | 1.0 | 12                 | 8000-LED-075-15W-UNV-D100X48 | 100W-300W-15W-100W-100W   |
| █                  | 1   | O     | SINGLE      | 0.800     | 0.800 | 1.0 | 12                 | 8000-LED-075-15W-UNV-D100X48 | 100W-300W-15W-100W-100W   |
| █                  | 1   | P     | SINGLE      | 0.800     | 0.800 | 1.0 | 12                 | 8000-LED-075-15W-UNV-D100X48 | 100W-300W-15W-100W-100W   |
| █                  | 1   | Q     | SINGLE      | 0.800     | 0.800 | 1.0 | 12                 | 8000-LED-075-15W-UNV-D100X48 | 100W-300W-15W-100W-100W   |
| █                  | 1   | R     | SINGLE      | 0.800     | 0.800 | 1.0 | 12                 | 8000-LED-075-15W-UNV-D100X48 | 100W-300W-15W-100W-100W   |
| █                  | 1   | S     | SINGLE      | 0.800     | 0.800 | 1.0 | 12                 | 8000-LED-075-15W-UNV-D100X48 | 100W-300W-15W-100W-100W   |
| █                  | 1   | T     | SINGLE      | 0.800     | 0.800 | 1.0 | 12                 | 8000-LED-075-15W-UNV-D100X48 | 100W-300W-15W-100W-100W   |
| █                  | 1   | U     | SINGLE      | 0.800     | 0.800 | 1.0 | 12                 | 8000-LED-075-15W-UNV-D100X48 | 100W-300W-15W-100W-100W   |
| █                  | 1   | V     | SINGLE      | 0.800     | 0.800 | 1.0 | 12                 | 8000-LED-075-15W-UNV-D100X48 | 100W-300W-15W-100W-100W   |
| █                  | 1   | W     | SINGLE      | 0.800     | 0.800 | 1.0 | 12                 | 8000-LED-075-15W-UNV-D100X48 | 100W-300W-15W-100W-100W   |
| █                  | 1   | X     | SINGLE      | 0.800     | 0.800 | 1.0 | 12                 | 8000-LED-075-15W-UNV-D100X48 | 100W-300W-15W-100W-100W   |
| █                  | 1   | Y     | SINGLE      | 0.800     | 0.800 | 1.0 | 12                 | 8000-LED-075-15W-UNV-D100X48 | 100W-300W-15W-100W-100W   |
| █                  | 1   | Z     | SINGLE      | 0.800     | 0.800 | 1.0 | 12                 | 8000-LED-075-15W-UNV-D100X48 | 100W-300W-15W-100W-100W   |
| █                  | 1   | A1    | SINGLE      | 0.800     | 0.800 | 1.0 | 12                 | 8000-LED-075-15W-UNV-D100X48 | 100W-300W-15W-100W-100W   |
| █                  | 1   | B1    | SINGLE      | 0.800     | 0.800 | 1.0 | 12                 | 8000-LED-075-15W-UNV-D100X48 | 100W-300W-15W-100W-100W   |
| █                  | 1   | C1W1  | SINGLE      | 0.800     | 0.800 | 1.0 | 12                 | 8000-LED-075-15W-UNV-D100X48 | 100W-300W-15W-100W-100W   |
| █                  | 1   | D11   | SINGLE      | 0.800     | 0.800 | 1.0 | 12                 | 8000-LED-075-15W-UNV-D100X48 | 100W-300W-15W-100W-100W   |
| █                  | 1   | E1    | SINGLE      | 0.800     | 0.800 | 1.0 | 12                 | 8000-LED-075-15W-UNV-D100X48 | 100W-300W-15W-100W-100W   |
| █                  | 1   | F1    | SINGLE      | 0.800     | 0.800 | 1.0 | 12                 | 8000-LED-075-15W-UNV-D100X48 | 100W-300W-15W-100W-100W   |
| █                  | 1   | G1    | SINGLE      | 0.800     | 0.800 | 1.0 | 12                 | 8000-LED-075-15W-UNV-D100X48 | 100W-300W-15W-100W-100W   |
| █                  | 1   | H1    | SINGLE      | 0.800     | 0.800 | 1.0 | 12                 | 8000-LED-075-15W-UNV-D100X48 | 100W-300W-15W-100W-100W   |
| █                  | 1   | I1    | SINGLE      | 0.800     | 0.800 | 1.0 | 12                 | 8000-LED-075-15W-UNV-D100X48 | 100W-300W-15W-100W-100W   |
| █                  | 1   | J1    | SINGLE      | 0.800     | 0.800 | 1.0 | 12                 | 8000-LED-075-15W-UNV-D100X48 | 100W-300W-15W-100W-100W   |
| █                  | 1   | K1    | SINGLE      | 0.800     | 0.800 | 1.0 | 12                 | 8000-LED-075-15W-UNV-D100X48 | 100W-300W-15W-100W-100W   |
| █                  | 1   | L1    | SINGLE      | 0.800     | 0.800 | 1.0 | 12                 | 8000-LED-075-15W-UNV-D100X48 | 100W-300W-15W-100W-100W   |
| █                  | 1   | M1    | SINGLE      | 0.800     | 0.800 | 1.0 | 12                 | 8000-LED-075-15W-UNV-D100X48 | 100W-300W-15W-100W-100W   |
| █                  | 1   | N1    | SINGLE      | 0.800     | 0.800 | 1.0 | 12                 | 8000-LED-075-15W-UNV-D100X48 | 100W-300W-15W-100W-100W   |
| █                  | 1   | O1    | SINGLE      | 0.800     | 0.800 | 1.0 | 12                 | 8000-LED-075-15W-UNV-D100X48 | 100W-300W-15W-100W-100W   |
| █                  | 1   | P1    | SINGLE      | 0.800     | 0.800 | 1.0 | 12                 | 8000-LED-075-15W-UNV-D100X48 | 100W-300W-15W-100W-100W   |
| █                  | 1   | Q1    | SINGLE      | 0.800     | 0.800 | 1.0 | 12                 | 8000-LED-075-15W-UNV-D100X48 | 100W-300W-15W-100W-100W   |
| █                  | 1   | R1    | SINGLE      | 0.800     | 0.800 | 1.0 | 12                 | 8000-LED-075-15W-UNV-D100X48 | 100W-300W-15W-100W-100W   |
| █                  | 1   | S1    | SINGLE      | 0.800     | 0.800 | 1.0 | 12                 | 8000-LED-075-15W-UNV-D100X48 | 100W-300W-15W-100W-100W   |
| █                  | 1   | T1    | SINGLE      | 0.800     | 0.800 | 1.0 | 12                 | 8000-LED-075-15W-UNV-D100X48 | 100W-300W-15W-100W-100W   |
| █                  | 1   | U1    | SINGLE      | 0.800     | 0.800 | 1.0 | 12                 | 8000-LED-075-15W-UNV-D100X48 | 100W-300W-15W-100W-100W   |
| █                  | 1   | V1    | SINGLE      | 0.800     | 0.800 | 1.0 | 12                 | 8000-LED-075-15W-UNV-D100X48 | 100W-300W-15W-100W-100W   |
| █                  | 1   | W1    | SINGLE      | 0.800     | 0.800 | 1.0 | 12                 | 8000-LED-075-15W-UNV-D100X48 | 100W-300W-15W-100W-100W   |
| █                  | 1   | X1    | SINGLE      | 0.800     | 0.800 | 1.0 | 12                 | 8000-LED-075-15W-UNV-D100X48 | 100W-300W-15W-100W-100W   |
| █                  | 1   | Y1    | SINGLE      | 0.800     | 0.800 | 1.0 | 12                 | 8000-LED-075-15W-UNV-D100X48 | 100W-300W-15W-100W-100W   |
| █                  | 1   | Z1    | SINGLE      | 0.800     | 0.800 | 1.0 | 12                 | 8000-LED-075-15W-UNV-D100X48 | 100W-300W-15W-100W-100W   |
| █                  | 1   | A2    | SINGLE      | 0.800     | 0.800 | 1.0 | 12                 | 8000-LED-075-15W-UNV-D100X48 | 100W-300W-15W-100W-100W</ |



# Mirada Medium (MRM)

## Outdoor LED Area Light



IP66 IK08



| OVERVIEW             |                             |
|----------------------|-----------------------------|
| Lumen Package        | 7,000 - 55,000              |
| Wattage Range        | 48 - 438                    |
| Efficacy Range (LPW) | 115 - 162                   |
| Weight lbs(kg)       | 30 (13.6)                   |
| Control Options      | IMSBT, ALB, ALS, 7-Pin, PCI |

### QUICK LINKS

[Ordering Guide](#)[Performance](#)[Photometrics](#)[Dimensions](#)

## FEATURES & SPECIFICATIONS

### Construction

- Rugged die-cast aluminum housing contains factory prewired driver and optical unit. Cast aluminum wiring access door located underneath.
- Designed to mount to square or round poles.
- Fixtures are finished with LSI's DuraGrip® polyester powder coat finishing process. The DuraGrip finish withstands extreme weather changes without cracking or peeling. Other standard LSI finishes available. Consult factory.
- Shipping weight: 37 lbs in carton.

### Optical System

- State-of-the-Art one piece silicone optic sheet delivers industry leading optical control with an integrated gasket to provide IP66 rated sealed optical chamber in 1 component.
- Proprietary silicone refractor optics provide exceptional coverage and uniformity in IES Types 2, 3, 4, 5W, FT, FTA, AM, and LC/RC.
- Silicone optical material does not yellow or crack with age and provides a typical light transmittance of 93-95%.
- Zero uplight.
- Available in 5000K, 4000K, and 3000K color temperatures per ANSI C78.377. Also Available in Phosphor Converted Amber with Peak intensity at 610nm.
- Minimum CRI of 70.
- Integral louver (IL) and integral half louver (IH) options available for enhanced backlight control.

### Electrical

- High-performance programmable driver features over-voltage, under-voltage, short-circuit and over temperature protection. Custom lumen and wattage packages available.
- 0-10V dimming (10% - 100%) standard.
- Standard Universal Voltage (120-277 Vac) Input 50/60 Hz or optional High Voltage (347-480 Vac).
- L80 Calculated Life: >100k Hours (See Lumen Maintenance chart)
- Total harmonic distortion: <20%
- Operating temperature: -40°C to +50°C (-40°F to +122°F). 42L and 48L lumen packages rated to +40°C. 55L lumen package rate to +35°C.
- Power factor: >.90
- Input power stays constant over life.
- Field replaceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).
- High-efficacy LEDs mounted to metal-core circuit board to maximize heat dissipation
- Components are fully encased in potting material for moisture resistance. Driver complies with FCC standards. Driver and key electronic components can easily be accessed.

### Controls

- Optional integral passive infrared Bluetooth™ motion. Fixtures operate independently and can be commissioned via iOS or Android configuration app
- LSI's AirLink™ wireless control system options reduce energy and maintenance

costs while optimizing light quality 24/7. (see controls section for more details).

### Installation

- Designed to mount to square or round poles.
- A single fastener secures the hinged door, underneath the housing and provides quick & easy access to the electrical compartment.
- Included terminal block accepts up to 12 ga. wire.
- Utilizes LSI's traditional 3" drill pattern B3 for easy fastening of LSI products.

### Warranty

- LSI LED Fixtures carry a 5-year warranty.

### Listings

- Listed to UL 1598 and UL 8750.
- Meets Buy American Act requirements.
- IDA compliant; with 3000K color temperature selection.
- Title 24 Compliant; see local ordinance for qualification information.
- RoHS compliant
- Suitable for wet Locations.
- IP66 rated Luminaire per IEC 60598.
- 3G rated for ANSI C136.31 high vibration applications are qualified.
- DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at [www.designlights.org/QPL](http://www.designlights.org/QPL) to confirm which versions are qualified.
- Patented Silicone Optics (US Patent NO. 10,816,165 B2)
- IK08 rated luminaire per IEC 66262 mechanical impact code



# Mirada Medium Outdoor LED Area Light

 **Have questions?** Call us at (800) 436-7800

Type : \_\_\_\_\_

## ORDERING GUIDE

[Back to Quick Links](#)

**TYPICAL ORDER EXAMPLE: MRM LED 36L SIL FTA UNV DIM 50 70CRI ALSC04 BRZ IL**

| Prefix                         | Light Source | Lumen Package   | Lens           | Distribution   | Orientation <sup>2</sup>  | Voltage  | Driver                      |
|--------------------------------|--------------|---|----------------|--|---|--|-----------------------------|
| MRM - Mirada Medium Area Light | LED          | 7L - 7,000 lms, 48W<br>9L - 9,000 lms, 62W<br>12L - 12,000 lms, 85W<br>18L - 18,000 lms, 135W<br>24L - 24,000 lms, 176W<br>30L - 30,000 lms, 232W<br>36L - 36,000 lms, 288W<br>42L - 42,000 lms, 314W<br>48L - 48,000 lms, 401W<br>55L - 55,000 lms, 438W<br>Custom Lumen Packages <sup>1</sup> | SIL - Silicone | 2 - Type 2<br>3 - Type 3<br>4 - Type 4<br>5W - Type 5 Wide<br>FT - Forward Throw<br>FTA - Forward Throw Automotive<br>AM - Automotive Merchandise<br>LC - Left Corner<br>RC - Right Corner | (blank) - standard<br>L - Optics rotated left 90°<br>R - Optics rotated right 90° | UNV - Universal Voltage (120-277V)<br>HV - High Voltage (347-480V) | DIM - 0-10V Dimming (0-10%) |

| Color Temp   | Color Rendering | Finish   | Options  |
|--|-----------------|--|--|
| 50 - 5,000 CCT<br>40 - 4,000 CCT<br>30 - 3,000 CCT<br>AMB - Phosphor Converted Amber <sup>12</sup> | 70CRI - 70 CRI  | BLK - Black<br>BRZ - Dark Bronze<br>GMG - Gun Metal Gray<br>GPT - Graphite | MSV - Metallic Silver<br>PLP - Platinum Plus<br>SVG - Satin Verde Green<br>WHT - White<br>(Blank) - None<br>IH - Integral Half Louver (Moderate Spill Light Cutoff) <sup>2</sup><br>IL - Integral Louver (Sharp Spill Light Cutoff) <sup>2</sup> |

### Controls (Choose One)

(Blank) - None

#### Wireless Controls System

ALSC - AirLink Synapse Control System<sup>13</sup>

ALSC02 - AirLink Synapse Control System with 12-20' Motion Sensor<sup>13</sup>

ALSC04 - AirLink Synapse Control System with 20-40' Motion Sensor<sup>13</sup>

ALBCS1 - AirLink Blue Wireless Motion & Photo Sensor Controller (8-24' mounting height)<sup>5</sup>

ALBCS2 - AirLink Blue Wireless Motion & Photo Sensor Controller (25-40' mounting height)<sup>5</sup>

#### Stand-Alone Controls

EXT - 0-10V Dimming leads extended to housing exterior

CR7P - 7 Pin Control Receptacle ANSI C136.41<sup>6</sup>

IMSBT1L - Integral Bluetooth™ Motion and Photocell Sensor (8-24' MH)<sup>5</sup>

IMSBT12 - Integral Bluetooth™ Motion and Photocell Sensor (25-40' MH)<sup>5</sup>

#### Button Type Photocells

PC1120 - 120V

PC1208-277 - 208 -277V

PC1347 - 347V



**Need more information?**

Click here for our glossary

**Have additional questions?**

Call us at (800) 436-7800



## ACCESSORY ORDERING INFORMATION<sup>7</sup>

| CONTROLS ACCESSORIES   |                |
|--|----------------|
| Description  | Order Number   |
| PC120 Photocell for use with CR7P option (120V) <sup>8</sup>                 | <b>122514</b>  |
| PC208-277 Photocell for use with CR7P option (208V, 240V, 277V) <sup>8</sup> | <b>122515</b>  |
| Twist Lock Photocell (347V) for use with CR7P <sup>8</sup>                   | <b>122516</b>  |
| Twist Lock Photocell (480V) for use with CR7P <sup>8</sup>                   | <b>1225180</b> |
| AirLink 5 Pin Twist Lock Controller (120-277V Only) <sup>8</sup>             | <b>661409</b>  |
| AirLink 7 Pin Twist Lock Controller (120-277V Only) <sup>8</sup>             | <b>661410</b>  |
| AirLink 7 Pin Twist Lock Controller (347-480V)                               | <b>679948</b>  |
| Shorting Cap for use with CR7P   | <b>149328</b>  |

| FUSING OPTIONS <sup>11</sup> |  |
|------------------------------|--|
| Single Fusing (120V)         |  |
| Single Fusing (277V)         |  |
| Double Fusing (208, 240V)    |  |
| Double Fusing (480V)         |  |
| Double Fusing (347V)         |  |

[See Fusing Accessory Guide](#)

| SHIELDING OPTIONS |  |
|-------------------|--|
| Mirada Small      |  |
| Mirada Medium     |  |
| Mirada Large      |  |
| Zone Medium       |  |
| Zone Large        |  |
| Slice Medium      |  |

[See Shielding Guide](#)

1. Custom lumen and wattage packages available, consult factory. Values are within industry standard tolerances but not DLC listed.
2. Not available with 5W distribution
3. Consult Factory for availability.
4. Not available in HV.
5. Motion sensors are field configurable via an app that can be downloaded from your smartphone's native app store. See controls section for more details.
6. Control device or shorting cap must be ordered separately. See Accessory Ordering Information.
7. Accessories are shipped separately and field installed.
8. Factory installed CR7P option required. See Options.
9. "CLR" denotes finish. See Finish options.
10. Only available with ALSC/ALSC04 control options.
11. Fusing must be located in hand hole of pole. See [Fusing Accessory Guide](#) for compatibility.
12. Only available in 9L, 12L, 18L and 24L Lumen Packages. Consult factory for lead time and availability.
13. Not available with 55L Lumen Package.

# Mirada Medium Outdoor LED Area Light

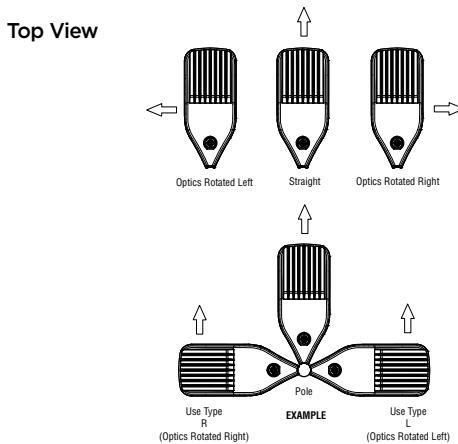
Type: \_\_\_\_\_

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## ACCESSORIES

| MOUNTING ACCESSORIES   |   |   |
|--|---|---|
| Side Arm   | <b>Universal Mounting Bracket</b><br>Mounts to ≥ 3" square or round (tapered/straight) poles with (2) mounting hole spaces between 3.5" to 5"<br><br>Part Number: BKA UMB CLR                       |      |
|  | <b>Quick Mount Plate</b><br>True one person installation to existing/new construction poles with hole spaces between 2.4 to 4.6"<br><br>Part Number: BKS PQM B3B5 XX CLR                            |      |
|  | <b>15° Tilt Quick Mount Plate</b><br>True one person installation to existing/new construction poles with hole spaces between 2.4 to 4.6"<br><br>Part Number: BKS PQ15 B3B5 XX CLR                  |      |
| Tenon / Slipfitter   | <b>Adjustable Slipfitter</b><br>Mounts onto a 2" (51mm) IP, 2.375" (60mm) O.D. tenon and provides 180° of tilt (max 45° above horizontal)<br><br>Part Number: BKA ASF CLR                           |      |
|  | <b>Square Tenon Top</b><br>Mounts onto a 2" (51mm) IP, 2.375" (60mm) O.D. tenon and allows for mounting up to 4 luminaires<br><br>Part Number: BKA XNM *  |      |
|  | <b>Square Internal Slipfitter</b><br>Mounts inside 4" or 5" square pole and allows for mounting up to 4 luminaires<br><br>Part Number: BKA X_ISF * CLR  |    |
| Wall Mount/ Wood Pole  | <b>Wall Mount Bracket</b><br>Mounts onto vertical wall surface (hardware/anchors not included)<br><br>Part Number: BKS XBO WM CLR   |    |
|  | <b>Wood Pole Bracket</b><br>Mounts onto wooden poles (6" minimum OD, hardware/anchors not included)<br><br>Part Number: BKS XBO WP CLR  |    |
| SHIELDING, POLES & MISC. ACCESSORIES   |   |   |
| Poles  | <b>Integral Louver</b><br>Field Install Integral Louver provides maximum backlight control by shielding each individual row of LEDs<br><br>Part Number: 690981                                      |    |
|  | <b>Integral Half Louver</b><br>Field Install Integral Half Louver provides great backlight control without impacting front side distribution.<br><br>Part Number: 743415                            |    |
|  | <b>External Shield</b><br>External shield blocks view of light source from any side of luminaire, additional shielding configurations available<br><br>Part Number: 783607BLK (3") / 776538BLK (6") |    |
| Misc.  | <b>Square Poles</b><br>14 - 39' steel and aluminum poles in 4", 5" and 6" sizes for retrofit and new construction<br><br>Part Number: 4SQ/5SQ/6SQ   |    |
|  | <b>Round Poles</b><br>10 - 30' steel and aluminum poles in 4" and 5" sizes for retrofit and new construction<br><br>Part Number: 4RP/5RP  |    |
|  | <b>Tapered Poles</b><br>20' - 39' steel and aluminum poles for retrofit and new construction<br><br>Part Number: RTP  |  |
| Bird Spikes  |   |   |
| 10' Linear Bird Spike Kit, 4" recommended per luminaire, includes silicone adhesive and application tool   |   |   |
| Spike Part Number: 751631<br>Adhesive Part Number: 751632<br>Caulk Gun Part Number: 751636   |   |   |
| Replace CLR with paint finish description<br>Replace X with: 3<br>Replace XX with SQ for square pole or RD for round pole (≥3" OD)<br>Replace * with S (Single), D180 (Double @180°), D90 (Double @90°), T90 (Triple), Q90 (Quad)<br>Replace _ with 4 (4" square pole) or 5 (5" square pole) |   |   |

## OPTICS ROTATION



## ACCESSORIES/OPTIONS

### Integral Louver (IL) and House-Side Shield (IH)

Integral Louver (IL) and half louver (IH) accessory shields available for improved backlight control without sacrificing street side performance. LSI's Integral Louver (IL) and Integral House-Side Shield (IH) options deliver backlight control that significantly reduces spill light behind the poles for applications with pole locations close to adjacent properties. The design maximizes forward reflected light while reducing glare, maintaining the optical distribution selected, and most importantly eliminating light trespass. Both options rotate

Luminaire Shown with Integral Louver (IL)



Luminaire Shown with IMSBTL Option



### 7 Pin Photoelectric Control

7-pin ANSI C136.41-2013 control receptacle option available for twist lock photocontrols or wireless control modules. Control accessories sold separately. Dimming leads from the receptacle will be connected to the driver dimming leads (Consult factory for alternate wiring).

Luminaire Shown with CR7P



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SPEC.1020.B.0422

# Mirada Medium Outdoor LED Area Light

Type: \_\_\_\_\_

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## PERFORMANCE

[Back to Quick Links](#)

| DELIVERED LUMENS* |              |     |                  |          |            |                  |          |            |                  |          |            |
|-------------------|--------------|-----|------------------|----------|------------|------------------|----------|------------|------------------|----------|------------|
| Lumen Package     | Distribution | CRI | 3000K CCT        |          |            | 4000K CCT        |          |            | 5000K CCT        |          |            |
|                   |              |     | Delivered Lumens | Efficacy | BUG Rating | Delivered Lumens | Efficacy | BUG Rating | Delivered Lumens | Efficacy | BUG Rating |
| 9L                | 2            | 70  | 9853             | 159      | B2-U0-G2   | 9853             | 159      | B2-U0-G2   | 9853             | 159      | B2-U0-G2   |
|                   | 3            |     | 9926             | 160      | B2-U0-G2   | 9926             | 160      | B2-U0-G2   | 9926             | 160      | B2-U0-G2   |
|                   | 4            |     | 9178             | 148      | B2-U0-G3   | 9713             | 157      | B2-U0-G3   | 9498             | 153      | B2-U0-G3   |
|                   | 5W           |     | 9504             | 153      | B3-U0-G2   | 9504             | 153      | B3-U0-G2   | 9504             | 153      | B3-U0-G2   |
|                   | FT           |     | 9856             | 159      | B2-U0-G3   | 9856             | 159      | B2-U0-G3   | 9856             | 159      | B2-U0-G3   |
|                   | FTA          |     | 9900             | 160      | B2-U0-G2   | 9900             | 160      | B2-U0-G2   | 9900             | 160      | B2-U0-G2   |
|                   | AM           |     | 10019            | 162      | B2-U0-G1   | 10019            | 162      | B2-U0-G1   | 10019            | 162      | B2-U0-G1   |
|                   | LC/RC        |     | 9008             | 145      | B2-U0-G3   | 9533             | 154      | B2-U0-G3   | 9321             | 150      | B2-U0-G3   |
| 12L               | 2            | 70  | 13135            | 155      | B3-U0-G2   | 13135            | 155      | B3-U0-G2   | 13135            | 155      | B3-U0-G2   |
|                   | 3            |     | 13232            | 156      | B2-U0-G2   | 13232            | 156      | B2-U0-G2   | 13232            | 156      | B2-U0-G2   |
|                   | 4            |     | 12223            | 144      | B2-U0-G3   | 12935            | 152      | B2-U0-G4   | 12648            | 149      | B2-U0-G4   |
|                   | 5W           |     | 12669            | 149      | B4-U0-G2   | 12669            | 149      | B4-U0-G2   | 12669            | 149      | B4-U0-G2   |
|                   | FT           |     | 13138            | 155      | B2-U0-G3   | 13138            | 155      | B2-U0-G3   | 13138            | 155      | B2-U0-G3   |
|                   | FTA          |     | 13196            | 155      | B2-U0-G2   | 13196            | 155      | B2-U0-G2   | 13196            | 155      | B2-U0-G2   |
|                   | AM           |     | 13355            | 157      | B2-U0-G2   | 13355            | 157      | B2-U0-G2   | 13355            | 157      | B2-U0-G2   |
|                   | LC/RC        |     | 11996            | 141      | B2-U0-G3   | 12695            | 149      | B2-U0-G3   | 12414            | 146      | B2-U0-G3   |
| 18L               | 2            | 70  | 19318            | 143      | B3-U0-G3   | 19318            | 143      | B3-U0-G3   | 19318            | 143      | B3-U0-G3   |
|                   | 3            |     | 19461            | 144      | B3-U0-G3   | 19461            | 144      | B3-U0-G3   | 19461            | 144      | B3-U0-G3   |
|                   | 4            |     | 18013            | 133      | B2-U0-G4   | 19063            | 141      | B3-U0-G5   | 18640            | 138      | B3-U0-G5   |
|                   | 5W           |     | 18633            | 138      | B4-U0-G2   | 18633            | 138      | B4-U0-G2   | 18633            | 138      | B4-U0-G2   |
|                   | FT           |     | 19324            | 143      | B3-U0-G3   | 19324            | 143      | B3-U0-G3   | 19324            | 143      | B3-U0-G3   |
|                   | FTA          |     | 19408            | 144      | B3-U0-G3   | 19408            | 144      | B3-U0-G3   | 19408            | 144      | B3-U0-G3   |
|                   | AM           |     | 19641            | 145      | B3-U0-G2   | 19641            | 145      | B3-U0-G2   | 19641            | 145      | B3-U0-G2   |
|                   | LC/RC        |     | 17679            | 131      | B2-U0-G3   | 18710            | 139      | B2-U0-G3   | 18295            | 136      | B2-U0-G3   |
| 24L               | 2            | 70  | 24142            | 147      | B4-U0-G3   | 25957            | 147      | B4-U0-G3   | 25957            | 147      | B4-U0-G3   |
|                   | 3            |     | 25001            | 149      | B3-U0-G3   | 26149            | 149      | B3-U0-G3   | 26149            | 149      | B3-U0-G3   |
|                   | 4            |     | 24396            | 152      | B3-U0-G5   | 25600            | 160      | B3-U0-G5   | 25457            | 159      | B3-U0-G5   |
|                   | 5W           |     | 24327            | 142      | B5-U0-G3   | 25037            | 142      | B5-U0-G3   | 25037            | 142      | B5-U0-G3   |
|                   | FT           |     | 24994            | 148      | B3-U0-G3   | 25964            | 148      | B3-U0-G3   | 25964            | 148      | B3-U0-G3   |
|                   | FTA          |     | 24171            | 148      | B3-U0-G3   | 26077            | 148      | B4-U0-G3   | 26077            | 148      | B4-U0-G3   |
|                   | AM           |     | 24939            | 150      | B3-U0-G2   | 26393            | 150      | B3-U0-G2   | 26393            | 150      | B3-U0-G2   |
|                   | LC/RC        |     | 25884            | 162      | B3-U0-G4   | 25884            | 162      | B3-U0-G4   | 25310            | 158      | B3-U0-G4   |
| 30L               | 2            | 70  | 30171            | 140      | B4-U0-G3   | 32417            | 140      | B4-U0-G3   | 32417            | 140      | B4-U0-G3   |
|                   | 3            |     | 31243            | 141      | B3-U0-G4   | 32656            | 141      | B3-U0-G4   | 32656            | 141      | B3-U0-G4   |
|                   | 4            |     | 30651            | 144      | B3-U0-G5   | 32141            | 151      | B3-U0-G5   | 31961            | 150      | B3-U0-G5   |
|                   | 5W           |     | 30402            | 135      | B5-U0-G3   | 31267            | 135      | B5-U0-G3   | 31267            | 135      | B5-U0-G3   |
|                   | FT           |     | 31233            | 140      | B4-U0-G4   | 32424            | 140      | B4-U0-G4   | 32424            | 140      | B4-U0-G4   |
|                   | FTA          |     | 30207            | 140      | B4-U0-G4   | 32566            | 140      | B4-U0-G4   | 32566            | 140      | B4-U0-G4   |
|                   | AM           |     | 3116             | 142      | B4-U0-G3   | 32960            | 142      | B4-U0-G3   | 32960            | 142      | B4-U0-G3   |
|                   | LC/RC        |     | 32498            | 153      | B3-U0-G5   | 32498            | 153      | B3-U0-G5   | 31777            | 149      | B3-U0-G5   |

\*LEDs are frequently updated therefore values are nominal.



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# Mirada Medium Outdoor LED Area Light

Type : \_\_\_\_\_

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## PERFORMANCE (CONT.)

| DELIVERED LUMENS* |              |     |                  |          |            |                  |          |            |                  |          |            |         |
|-------------------|--------------|-----|------------------|----------|------------|------------------|----------|------------|------------------|----------|------------|---------|
| Lumen Package     | Distribution | CRI | 3000K CCT        |          |            | 4000K CCT        |          |            | 5000K CCT        |          |            | Wattage |
|                   |              |     | Delivered Lumens | Efficacy | BUG Rating | Delivered Lumens | Efficacy | BUG Rating | Delivered Lumens | Efficacy | BUG Rating |         |
| 36L               | 2            | 70  | 35357            | 133      | B4-U0-G3   | 38275            | 133      | B4-U0-G3   | 38275            | 133      | B4-U0-G3   | 288     |
|                   | 3            |     | 36614            | 134      | B4-U0-G4   | 38557            | 134      | B4-U0-G4   | 38557            | 134      | B4-U0-G4   |         |
|                   | 4            |     | 35402            | 139      | B3-U0-G5   | 37148            | 146      | B4-U0-G5   | 36940            | 145      | B4-U0-G5   |         |
|                   | 5W           |     | 35627            | 128      | B5-U0-G4   | 36917            | 128      | B5-U0-G4   | 36917            | 128      | B5-U0-G4   |         |
|                   | FT           |     | 36602            | 133      | B4-U0-G4   | 38283            | 133      | B4-U0-G4   | 38283            | 133      | B4-U0-G4   |         |
|                   | FTA          |     | 35399            | 134      | B4-U0-G4   | 38450            | 134      | B4-U0-G4   | 38450            | 134      | B4-U0-G4   |         |
|                   | AM           |     | 36524            | 135      | B4-U0-G3   | 38916            | 135      | B4-U0-G3   | 38916            | 135      | B4-U0-G3   |         |
|                   | LC/RC        |     | 37561            | 147      | B3-U0-G5   | 37561            | 147      | B3-U0-G5   | 36727            | 144      | B3-U0-G5   |         |
|                   | 2            |     | 41035            | 131      | B5-U0-G4   | 42602            | 136      | B5-U0-G4   | 42542            | 135      | B5-U0-G4   | 314     |
| 42L               | 3            | 70  | 42493            | 135      | B4-U0-G5   | 44115            | 140      | B4-U0-G5   | 44053            | 140      | B4-U0-G5   |         |
|                   | 4            |     | 41453            | 132      | B4-U0-G5   | 43497            | 138      | B4-U0-G5   | 43254            | 138      | B4-U0-G5   |         |
|                   | 5W           |     | 41349            | 132      | B5-U0-G4   | 42927            | 134      | B5-U0-G4   | 42866            | 137      | B5-U0-G4   |         |
|                   | FT           |     | 42481            | 135      | B4-U0-G4   | 44103            | 140      | B4-U0-G4   | 44040            | 140      | B4-U0-G4   |         |
|                   | FTA          |     | 41083            | 131      | B4-U0-G4   | 42652            | 136      | B5-U0-G4   | 42591            | 136      | B5-U0-G4   |         |
|                   | AM           |     | 42389            | 135      | B4-U0-G3   | 44007            | 140      | B4-U0-G3   | 43944            | 140      | B4-U0-G3   |         |
|                   | LC/RC        |     | 43980            | 140      | B3-U0-G5   | 43980            | 140      | B3-U0-G5   | 43004            | 137      | B3-U0-G5   |         |
|                   | 2            | 70  | 45133            | 123      | B5-U0-G4   | 46856            | 128      | B5-U0-G4   | 46789            | 128      | B5-U0-G4   | 401     |
|                   | 3            |     | 46737            | 128      | B4-U0-G5   | 48521            | 133      | B4-U0-G5   | 48452            | 132      | B4-U0-G5   |         |
|                   | 4            |     | 46006            | 126      | B4-U0-G5   | 48275            | 132      | B4-U0-G5   | 48005            | 131      | B4-U0-G5   |         |
|                   | 5W           |     | 45478            | 124      | B5-U0-G4   | 47214            | 129      | B5-U0-G4   | 47147            | 129      | B5-U0-G4   |         |
|                   | FT           |     | 46723            | 128      | B4-U0-G5   | 48507            | 133      | B4-U0-G5   | 48438            | 132      | B4-U0-G5   |         |
|                   | FTA          |     | 45187            | 123      | B5-U0-G4   | 46912            | 128      | B5-U0-G4   | 46845            | 128      | B5-U0-G4   |         |
|                   | AM           |     | 4662             | 127      | B4-U0-G3   | 48402            | 132      | B4-U0-G3   | 48333            | 132      | B4-U0-G3   |         |
|                   | LC/RC        |     | 48811            | 133      | B4-U0-G5   | 48811            | 133      | B4-U0-G5   | 47728            | 130      | B4-U0-G5   |         |
| 55L               | 2            | 70  | 50179            | 115      | B5-U0-G4   | 52095            | 119      | B5-U0-G4   | 52021            | 119      | B5-U0-G4   | 438     |
|                   | 3            |     | 51963            | 119      | B4-U0-G5   | 53947            | 123      | B4-U0-G5   | 53870            | 123      | B4-U0-G5   |         |
|                   | 4            |     | 51635            | 119      | B4-U0-G5   | 54181            | 125      | B4-U0-G5   | 53878            | 124      | B4-U0-G5   |         |
|                   | 5W           |     | 50563            | 115      | B5-U0-G4   | 52493            | 120      | B5-U0-G4   | 52418            | 120      | B5-U0-G4   |         |
|                   | FT           |     | 50539            | 115      | B4-U0-G5   | 52468            | 120      | B4-U0-G5   | 52394            | 120      | B4-U0-G5   |         |
|                   | FTA          |     | 50239            | 115      | B5-U0-G4   | 52157            | 119      | B5-U0-G4   | 52082            | 119      | B5-U0-G4   |         |
|                   | AM           |     | 52223            | 119      | B4-U0-G3   | 54216            | 124      | B4-U0-G3   | 54139            | 124      | B4-U0-G3   |         |
|                   | LC/RC        |     | 54113            | 124      | B4-U0-G5   | 54113            | 124      | B4-U0-G5   | 52912            | 121      | B4-U0-G5   |         |

\*LEDs are frequently updated therefore values are nominal.



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SPEC.1020.B.0422

# Mirada Medium Outdoor LED Area Light

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Type: \_\_\_\_\_

## PERFORMANCE (CONT.)

| ELECTRICAL DATA (AMPS)* |      |      |      |      |      |      |
|-------------------------|------|------|------|------|------|------|
| Lumens                  | 120V | 208V | 240V | 277V | 347V | 480V |
| 9L                      | 0.52 | 0.30 | 0.26 | 0.22 | 0.18 | 0.13 |
| 12L                     | 0.71 | 0.41 | 0.35 | 0.31 | 0.24 | 0.18 |
| 18L                     | 1.13 | 0.65 | 0.56 | 0.49 | 0.39 | 0.28 |
| 24L                     | 1.33 | 0.77 | 0.67 | 0.58 | 0.46 | 0.33 |
| 30L                     | 1.78 | 1.02 | 0.89 | 0.77 | 0.61 | 0.44 |
| 36L                     | 2.12 | 1.22 | 1.06 | 0.92 | 0.73 | 0.53 |
| 42L                     | 2.62 | 1.51 | 1.31 | 1.13 | 0.90 | 0.65 |
| 48L                     | 3.05 | 1.76 | 1.53 | 1.32 | 1.05 | 0.76 |
| 55L                     | 3.65 | 2.11 | 1.83 | 1.58 | 1.26 | 0.91 |

| RECOMMENDED LUMEN MAINTENANCE <sup>1</sup> (0-25°C) |                      |                  |                   |                   |                    |
|---|----------------------|------------------|-------------------|-------------------|--------------------|
| Ambient   | Initial <sup>2</sup> | 25h <sup>2</sup> | 50hr <sup>2</sup> | 75hr <sup>2</sup> | 100hr <sup>2</sup> |
| 9L - 18L  | 100%                 | 97%              | 93%               | 90%               | 86%                |
| 24L - 48L   | 100%                 | 95%              | 89%               | 84%               | 79%                |
| 55L   | 100%                 | 91%              | 82%               | 74%               | 67%                |

| RECOMMENDED LUMEN MAINTENANCE <sup>1</sup> (40°C) |                      |                  |                   |                   |                    |
|---|----------------------|------------------|-------------------|-------------------|--------------------|
| Ambient   | Initial <sup>2</sup> | 25h <sup>2</sup> | 50hr <sup>2</sup> | 75hr <sup>2</sup> | 100hr <sup>2</sup> |
| 9L - 18L  | 100%                 | 97%              | 92%               | 88%               | 84%                |
| 24L - 48L   | 100%                 | 94%              | 87%               | 80%               | 74%                |

| RECOMMENDED LUMEN MAINTENANCE <sup>1</sup> (50°C) |                      |                  |                   |                   |                    |
|---|----------------------|------------------|-------------------|-------------------|--------------------|
| Ambient   | Initial <sup>2</sup> | 25h <sup>2</sup> | 50hr <sup>2</sup> | 75hr <sup>2</sup> | 100hr <sup>2</sup> |
| 9L - 18L C  | 100%                 | 96%              | 91%               | 87%               | 85%                |

\*Electrical data at 25°C (77°F). Actual wattage may differ by +/-10%

1. Lumen maintenance values at 25C are calculated per TM-21 based on LM-80 data and in-situ testing.
2. In accordance with IESNA TM-21-11, Projected Values represent interpolated value based on time durations that are within six times the IESNA LM-80-08 total test duration for the device under testing.
3. In accordance with IESNA TM-21-11, Calculated Values represent time durations that exceed six times the IESNA LM-80-08 total test duration for the device under testing.

| DELIVERED LUMENS* |              |                                       |          |            |         |
|-------------------|--------------|---------------------------------------|----------|------------|---------|
| Lumen Package     | Distribution | Phosphor Converted Amber (Peak 610mm) |          |            | Wattage |
|                   |              | Delivered Lumens                      | Efficacy | BUG Rating |         |
| 9L                | 2            | 5848                                  | 80       | B2-U0-G2   | 74      |
|                   | 3            | 6018                                  | 82       | B1-U0-G2   |         |
|                   | 5W           | 5471                                  | 74       | B3-U0-G1   |         |
|                   | FT           | 5801                                  | 79       | B1-U0-G2   |         |
|                   | FTA          | 5924                                  | 81       | B1-U0-G1   |         |
|                   | AM           | 5995                                  | 81       | B1-U0-G1   |         |
| 12L               | 2            | 7530                                  | 74       | B2-U0-G2   | 102     |
|                   | 3            | 7749                                  | 76       | B1-U0-G2   |         |
|                   | 5W           | 7045                                  | 69       | B3-U0-G2   |         |
|                   | FT           | 7470                                  | 73       | B2-U0-G2   |         |
|                   | FTA          | 7628                                  | 75       | B2-U0-G2   |         |
|                   | AM           | 7720                                  | 76       | B1-U0-G1   |         |
| 18L               | 2            | 9311                                  | 69       | B2-U0-G2   | 135     |
|                   | 3            | 9582                                  | 71       | B2-U0-G2   |         |
|                   | 5W           | 8712                                  | 65       | B3-U0-G2   |         |
|                   | FT           | 9237                                  | 68       | B2-U0-G2   |         |
|                   | FTA          | 9433                                  | 70       | B2-U0-G2   |         |
|                   | AM           | 9546                                  | 71       | B2-U0-G1   |         |
| 24L               | 2            | 10955                                 | 63       | B2-U0-G2   | 175     |
|                   | 3            | 11273                                 | 64       | B2-U0-G2   |         |
|                   | 5W           | 10249                                 | 59       | B3-U0-G2   |         |
|                   | FT           | 10867                                 | 62       | B2-U0-G2   |         |
|                   | FTA          | 11097                                 | 63       | B2-U0-G2   |         |
|                   | AM           | 11230                                 | 64       | B2-U0-G1   |         |

| ELECTRICAL DATA - PHOSPHOR CONVERTED AMBER (AMPS)* |      |      |      |      |      |
|--|------|------|------|------|------|
| Lumens   | 120V | 208V | 240V | 277V | 347V |
| 9L   | 0.62 | 0.36 | 0.31 | 0.27 | 0.21 |
| 12L  | 0.85 | 0.50 | 0.43 | 0.38 | 0.30 |
| 18L  | 1.13 | 0.65 | 0.56 | 0.49 | 0.39 |
| 24L  | 1.47 | 0.85 | 0.73 | 0.64 | 0.51 |

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# Mirada Medium Outdoor LED Area Light

Type: \_\_\_\_\_



## PHOTOMETRICS

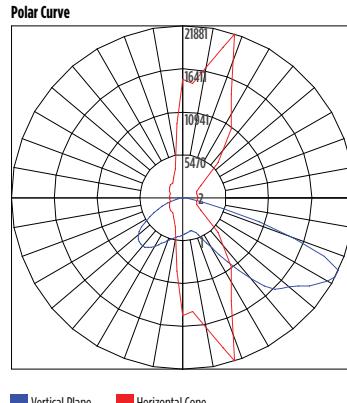
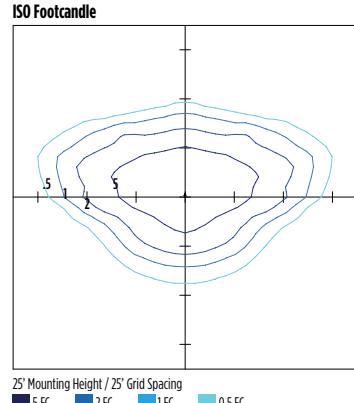
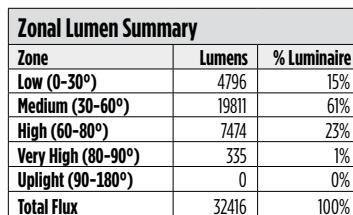
[Back to Quick Links](#)

Luminaire photometry has been conducted by a NVLAP accredited testing laboratory in accordance with IESNA LM-79-08. As specified by IESNA LM-79-08 the entire luminaire is tested as the source resulting in a luminaire efficiency of 100%.

See the individual product page on <https://www.lsicorp.com/> for detailed photometric data.

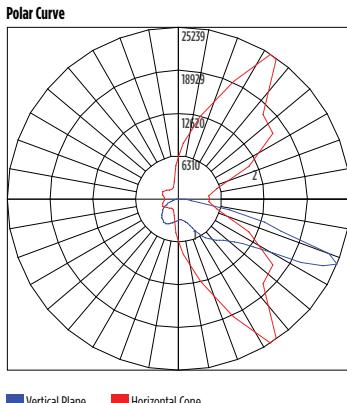
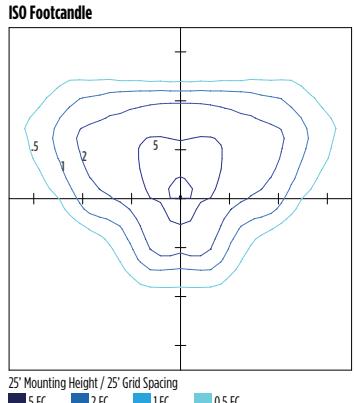
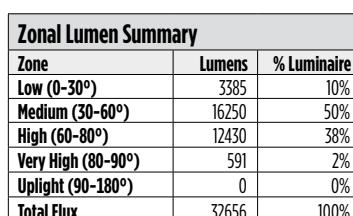
**MRM-LED-30L-SIL-2-40-70CRI**

| <b>Luminaire Data</b>      |                     |
|----------------------------|---------------------|
| <b>Type 2 Distribution</b> |                     |
| <b>Description</b>         | 4000 Kelvin, 70 CRI |
| <b>Delivered Lumens</b>    | 32,416              |
| <b>Watts</b>               | 232                 |
| <b>Efficacy</b>            | 140                 |
| <b>IES Type</b>            | Type II - Short     |
| <b>BUG Rating</b>          | B4-U0-G3            |



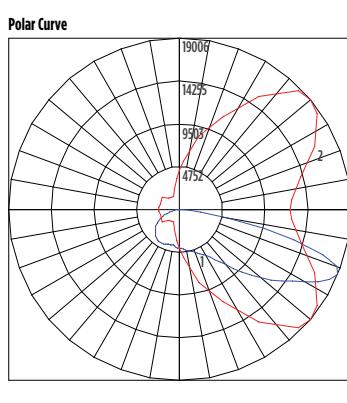
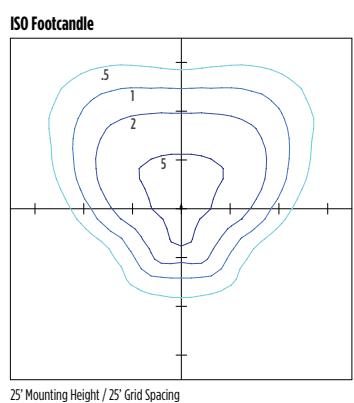
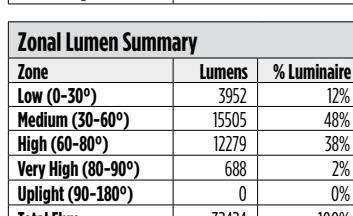
**MRM-LED-30L-SIL-3-40-70CRI**

| <b>Luminaire Data</b>      |                     |
|----------------------------|---------------------|
| <b>Type 3 Distribution</b> |                     |
| <b>Description</b>         | 4000 Kelvin, 70 CRI |
| <b>Delivered Lumens</b>    | 32,656              |
| <b>Watts</b>               | 232                 |
| <b>Efficacy</b>            | 141                 |
| <b>IES Type</b>            | Type III - Short    |
| <b>BLIIC Rating</b>        | B3-I10-G4           |



MRM-LED-30L-SIL-FT-40-70CR

| <b>Luminaire Data</b>       |                     |
|-----------------------------|---------------------|
| <b>Type FT Distribution</b> |                     |
| <b>Description</b>          | 4000 Kelvin, 70 CRI |
| <b>Delivered Lumens</b>     | 32,424              |
| <b>Watts</b>                | 232                 |
| <b>Efficacy</b>             | 140                 |
| <b>IES Type</b>             | Type IV - Short     |
| <b>RHS Rating</b>           | R7, U2, G4          |



# Mirada Medium Outdoor LED Area Light

Type : \_\_\_\_\_

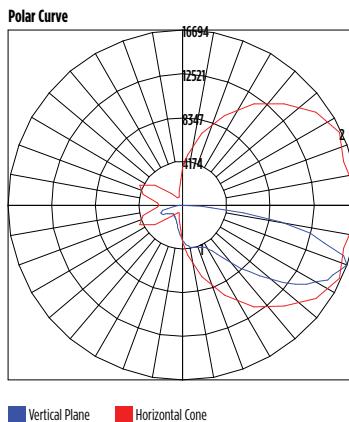
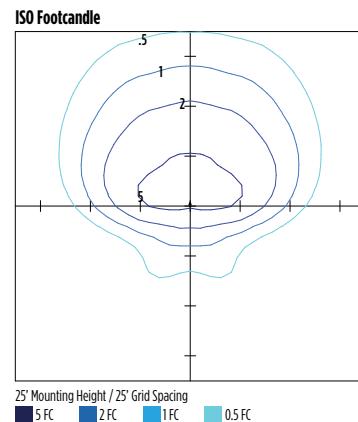
 Have questions? Call us at (800) 436-7800

## PHOTOMETRICS (CONT)

### MRM-LED-30L-SIL-4-40-70CRI

| Luminaire Data      |                      |
|---------------------|----------------------|
| Type 4 Distribution |                      |
| Description         | 4000 Kelvin, 70 CRI  |
| Delivered Lumens    | 32,141               |
| Watts               | 213                  |
| Efficacy            | 151                  |
| IES Type            | Type IV - Very Short |
| BUG Rating          | B3-U0-G5             |

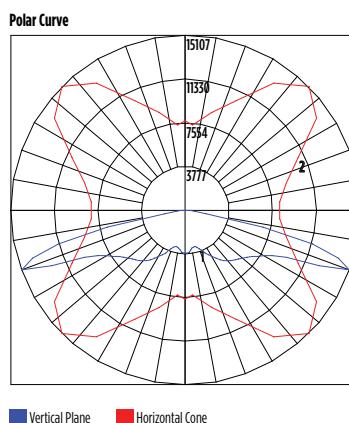
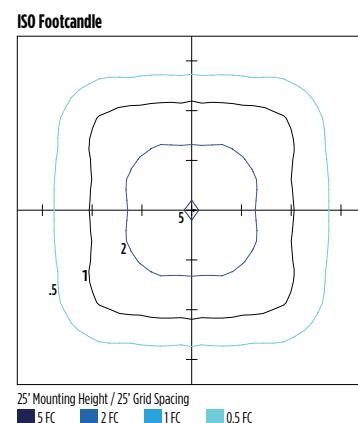
| Zonal Lumen Summary |        |             |
|---------------------|--------|-------------|
| Zone                | Lumens | % Luminaire |
| Low (0-30°)         | 3119   | 10%         |
| Medium (30-60°)     | 13569  | 42%         |
| High (60-80°)       | 13649  | 42%         |
| Very High (80-90°)  | 1804   | 6%          |
| Uplight (90-180°)   | 0      | 0%          |
| Total Flux          | 32141  | 100%        |



### MRM-LED-30L-SIL-5W-40-70CRI

| Luminaire Data       |                     |
|----------------------|---------------------|
| Type 5W Distribution |                     |
| Description          | 4000 Kelvin, 70 CRI |
| Delivered Lumens     | 31,267              |
| Watts                | 232                 |
| Efficacy             | 135                 |
| IES Type             | Type VS - Short     |
| BUG Rating           | B5-U0-G3            |

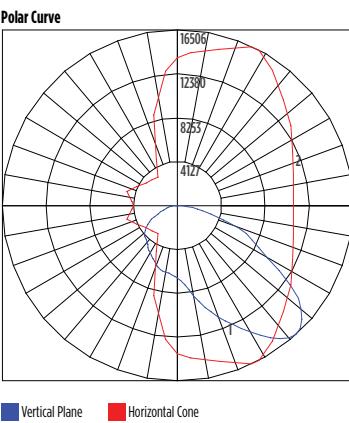
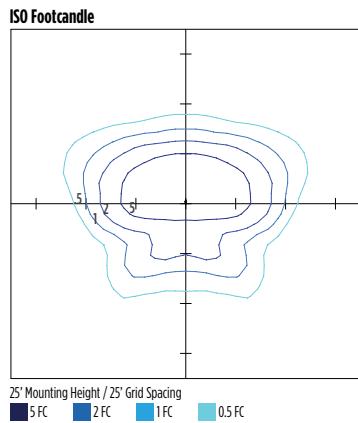
| Zonal Lumen Summary |        |             |
|---------------------|--------|-------------|
| Zone                | Lumens | % Luminaire |
| Low (0-30°)         | 3138   | 10%         |
| Medium (30-60°)     | 13193  | 42%         |
| High (60-80°)       | 14641  | 47%         |
| Very High (80-90°)  | 296    | 1%          |
| Uplight (90-180°)   | 0      | 0%          |
| Total Flux          | 31267  | 100%        |



### MRM-LED-30L-SIL-FTA-40-70CRI

| Luminaire Data        |                     |
|-----------------------|---------------------|
| Type FTA Distribution |                     |
| Description           | 4000 Kelvin, 70 CRI |
| Delivered Lumens      | 32,566              |
| Watts                 | 232                 |
| Efficacy              | 140                 |
| IES Type              | Type VS - Short     |
| BUG Rating            | B4-U0-G3            |

| Zonal Lumen Summary |        |             |
|---------------------|--------|-------------|
| Zone                | Lumens | % Luminaire |
| Low (0-30°)         | 6986   | 21%         |
| Medium (30-60°)     | 19172  | 59%         |
| High (60-80°)       | 5875   | 18%         |
| Very High (80-90°)  | 534    | 2%          |
| Uplight (90-180°)   | 0      | 0%          |
| Total Flux          | 32566  | 100%        |



# Mirada Medium Outdoor LED Area Light

Type: \_\_\_\_\_

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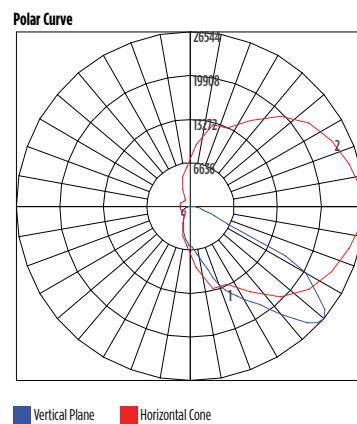
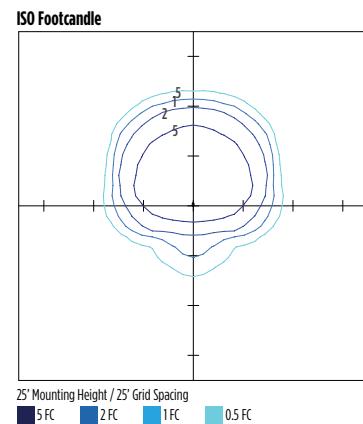
## PHOTOMETRICS (CONT)

[Back to Quick Links](#)

### MRM-LED-30L-SIL-AM-40-70CRI

| Luminaire Data       |                       |
|----------------------|-----------------------|
| Type AM Distribution |                       |
| Description          | 4000 Kelvin, 70 CRI   |
| Delivered Lumens     | 32,960                |
| Watts                | 232                   |
| Efficacy             | 142                   |
| IES Type             | Type III - Very Short |
| BUG Rating           | B3-U0-G3              |

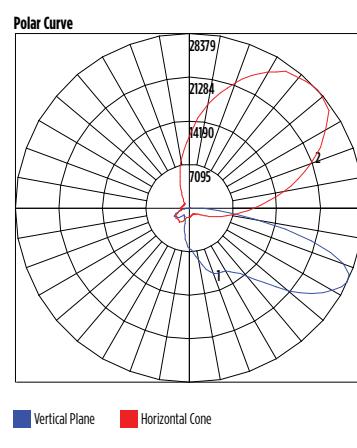
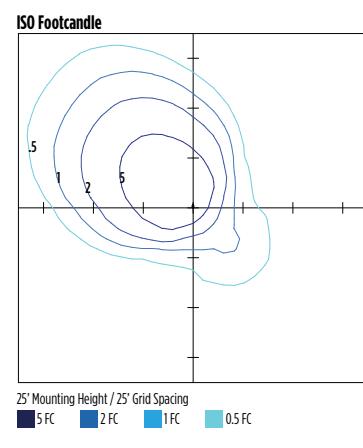
| Zonal Lumen Summary |        |             |
|---------------------|--------|-------------|
| Zone                | Lumens | % Luminaire |
| Low (0-30°)         | 6363   | 19%         |
| Medium (30-60°)     | 22026  | 67%         |
| High (60-80°)       | 4192   | 13%         |
| Very High (80-90°)  | 379    | 1%          |
| Uplight (90-180°)   | 0      | 0%          |
| Total Flux          | 32960  | 100%        |



### MRM-LED-30L-SIL-LC-40-70CRI

| Luminaire Data           |                     |
|--------------------------|---------------------|
| Left Corner Distribution |                     |
| Description              | 4000 Kelvin, 70 CRI |
| Delivered Lumens         | 32,498              |
| Watts                    | 213                 |
| Efficacy                 | 153                 |
| IES Type                 | N/A                 |
| BUG Rating               | B3-U0-G5            |

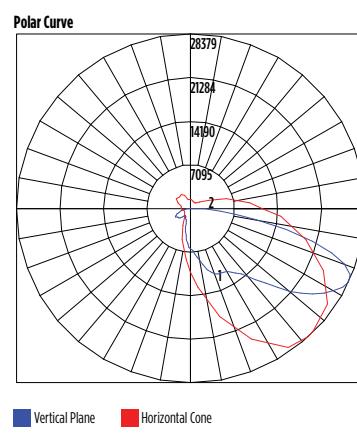
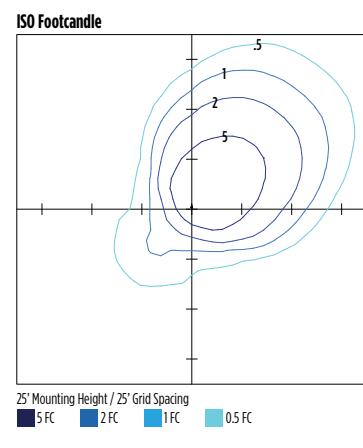
| Zonal Lumen Summary |        |             |
|---------------------|--------|-------------|
| Zone                | Lumens | % Luminaire |
| Low (0-30°)         | 5083   | 16%         |
| Medium (30-60°)     | 14808  | 46%         |
| High (60-80°)       | 11603  | 36%         |
| Very High (80-90°)  | 1005   | 3%          |
| Uplight (90-180°)   | 0      | 0%          |
| Total Flux          | 32498  | 100%        |



### MRM-LED-30L-SIL-RC-40-70CRI

| Luminaire Data            |                     |
|---------------------------|---------------------|
| Right Corner Distribution |                     |
| Description               | 4000 Kelvin, 70 CRI |
| Delivered Lumens          | 32,498              |
| Watts                     | 213                 |
| Efficacy                  | 153                 |
| IES Type                  | N/A                 |
| BUG Rating                | B3-U0-G5            |

| Zonal Lumen Summary |        |             |
|---------------------|--------|-------------|
| Zone                | Lumens | % Luminaire |
| Low (0-30°)         | 5083   | 16%         |
| Medium (30-60°)     | 14808  | 46%         |
| High (60-80°)       | 11603  | 36%         |
| Very High (80-90°)  | 1005   | 3%          |
| Uplight (90-180°)   | 0      | 0%          |
| Total Flux          | 32498  | 100%        |



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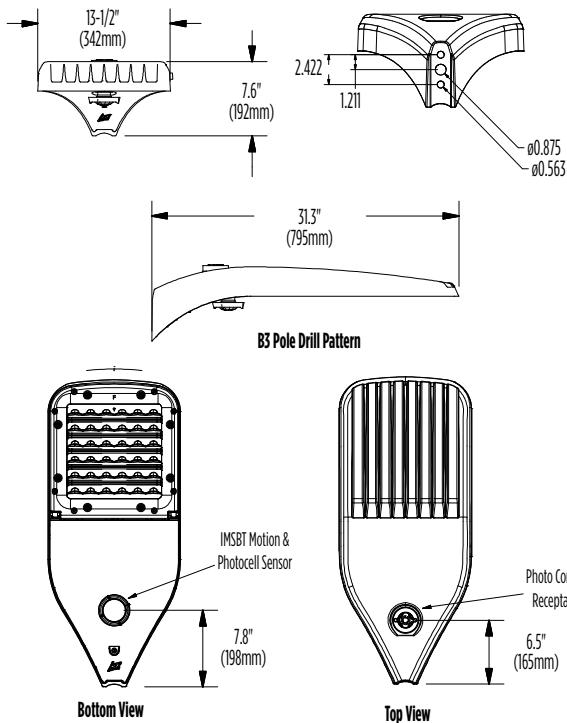
SPEC.1020.B.0422

# Mirada Medium Outdoor LED Area Light

Type: \_\_\_\_\_

 **Have questions?** Call us at (800) 436-7800

## PRODUCT DIMENSIONS



### Luminaire EPA Chart

| Tilt Degree   | 0°  | 15° | 30° | 45° |
|---|-----|-----|-----|-----|
|  <b>Single</b> | 0.5 | 1.0 | 1.5 | 1.9 |
|  <b>D180°</b>  | 1.0 | 1.5 | 1.5 | 1.9 |
|  <b>D90°</b>   | 0.8 | 1.8 | 1.9 | 2.3 |
|  <b>T90°</b>   | 1.0 | 4.0 | 2.5 | 2.8 |
|  <b>TN120°</b> | 1.0 | 2.9 | 3.3 | 3.9 |
|  <b>Q90°</b>   | 1.0 | 4.0 | 2.5 | 2.8 |



# Mirada Medium Outdoor LED Area Light

Type: \_\_\_\_\_

 **Have questions?** Call us at (800) 436-7800

## CONTROLS

### Integral Bluetooth™ Motion and Photocell Sensor (IMSBTxL)

Slim low profile sensor provides multi-level control based on motion and/or daylight. Sensor controls 0-10 VDC LED drivers and is IP66 rated for cold and wet locations (-40°F to 167°F). Two unique PIR lenses are available and used based on fixture mounting height. All control parameters are adjustable via an iOS or Android App capable of storing and transmitting sensor profiles.

[Click here to learn more details about IMSBT](#)



LEVITON App



Apple



Android

### AirLink Blue (ALBCSx)

Wireless Bluetooth Mesh Outdoor Lighting Control System that provides energy savings, code compliance and enhanced safety/security for parking lots and parking garages. Three key components; Bluetooth wireless radio/sensor controller, Time Keeper and an iOS App. Capable of grouping multiple fixtures and sensors as well as scheduling time-based events by zone. Radio/Sensor Controller is factory integrated into Area/Site, Wall Mounted, Parking Garage and Canopy luminaires.

[Click here to learn more details about AirLink Blue](#)



AirLink Blue App



Apple

## Sensor Sequence of Operations

| Standard Programming | On Event | Off Event | On Light Level | Dim Light Level | Daylight Harvesting  | Delay To Off | Sensitivity |
|----------------------|----------|-----------|----------------|-----------------|----------------------|--------------|-------------|
| OMSBTxL/IMSBTxL      | Motion   | No Motion | 100%           | N/A             | On; Auto Calibration | 20 minutes   | High        |
| OMS                  | Motion   | No Motion | N/A            | N/A             | N/A                  | 30 seconds   | Auto        |

| Operation       | Description  |
|-----------------|--|
| On Event        | Trigger that activates lights to turn on; either automatic via motion detected or manually activated via push of button.   |
| Off Event       | Trigger that activates lights to turn off; either automatic via no motion detected or manually activated via push of button.   |
| On Light Level  | The light level that the fixtures will turn on to when ON EVENT occurs.  |
| Dim Light Level | The light level that the fixtures will dim down to when no motion is detected.   |
| Delay to Dim    | The amount of time after which no motion is detected that the fixtures will be triggered to dim down. This sequence is optional, and sensor can be programmed to only trigger the fixture to turn off by entering 100% in this field.  |
| Delay to Off    | The amount of time after which no motion is detected that the fixtures will be triggered to turn off. If delay to dim is part of the programmed functionality, this is the amount of time after which no motion is detected after the fixture have already dimmed down.  |
| Sensitivity     | The sensitivity can be set to high, medium, low, or auto where applicable. High will detect smaller, simple motions. Low will only detect larger more complex motions. Auto temperature calibration adjusts the PIR sensitivity as ambient temperature rises to increase detection of heat movement through the field of view. |



# Mirada Medium (MRM)

## Outdoor LED Area Light



IP66 IK08



| OVERVIEW             |                             |
|----------------------|-----------------------------|
| Lumen Package        | 7,000 - 55,000              |
| Wattage Range        | 48 - 438                    |
| Efficacy Range (LPW) | 115 - 162                   |
| Weight lbs(kg)       | 30 (13.6)                   |
| Control Options      | IMSBT, ALB, ALS, 7-Pin, PCI |

### QUICK LINKS

[Ordering Guide](#)[Performance](#)[Photometrics](#)[Dimensions](#)

## FEATURES & SPECIFICATIONS

### Construction

- Rugged die-cast aluminum housing contains factory prewired driver and optical unit. Cast aluminum wiring access door located underneath.
- Designed to mount to square or round poles.
- Fixtures are finished with LSI's DuraGrip® polyester powder coat finishing process. The DuraGrip finish withstands extreme weather changes without cracking or peeling. Other standard LSI finishes available. Consult factory.
- Shipping weight: 37 lbs in carton.

### Optical System

- State-of-the-Art one piece silicone optic sheet delivers industry leading optical control with an integrated gasket to provide IP66 rated sealed optical chamber in 1 component.
- Proprietary silicone refractor optics provide exceptional coverage and uniformity in IES Types 2, 3, 4, 5W, FT, FTA, AM, and LC/RC.
- Silicone optical material does not yellow or crack with age and provides a typical light transmittance of 93-95%.
- Zero uplight.
- Available in 5000K, 4000K, and 3000K color temperatures per ANSI C78.377. Also Available in Phosphor Converted Amber with Peak intensity at 610nm.
- Minimum CRI of 70.
- Integral louver (IL) and integral half louver (IH) options available for enhanced backlight control.

### Electrical

- High-performance programmable driver features over-voltage, under-voltage, short-circuit and over temperature protection. Custom lumen and wattage packages available.
- 0-10V dimming (10% - 100%) standard.
- Standard Universal Voltage (120-277 Vac) Input 50/60 Hz or optional High Voltage (347-480 Vac).
- L80 Calculated Life: >100k Hours (See Lumen Maintenance chart)
- Total harmonic distortion: <20%
- Operating temperature: -40°C to +50°C (-40°F to +122°F). 42L and 48L lumen packages rated to +40°C. 55L lumen package rate to +35°C.
- Power factor: >.90
- Input power stays constant over life.
- Field replaceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).
- High-efficacy LEDs mounted to metal-core circuit board to maximize heat dissipation
- Components are fully encased in potting material for moisture resistance. Driver complies with FCC standards. Driver and key electronic components can easily be accessed.

### Controls

- Optional integral passive infrared Bluetooth™ motion. Fixtures operate independently and can be commissioned via iOS or Android configuration app
- LSI's AirLink™ wireless control system options reduce energy and maintenance

costs while optimizing light quality 24/7. (see controls section for more details).

### Installation

- Designed to mount to square or round poles.
- A single fastener secures the hinged door, underneath the housing and provides quick & easy access to the electrical compartment.
- Included terminal block accepts up to 12 ga. wire.
- Utilizes LSI's traditional 3" drill pattern B3 for easy fastening of LSI products.

### Warranty

- LSI LED Fixtures carry a 5-year warranty.

### Listings

- Listed to UL 1598 and UL 8750.
- Meets Buy American Act requirements.
- IDA compliant; with 3000K color temperature selection.
- Title 24 Compliant; see local ordinance for qualification information.
- RoHS compliant
- Suitable for wet Locations.
- IP66 rated Luminaire per IEC 60598.
- 3G rated for ANSI C136.31 high vibration applications are qualified.
- DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at [www.designlights.org/QPL](http://www.designlights.org/QPL) to confirm which versions are qualified.
- Patented Silicone Optics (US Patent NO. 10,816,165 B2)
- IK08 rated luminaire per IEC 66262 mechanical impact code

# Mirada Medium Outdoor LED Area Light

Type : \_\_\_\_\_

 **Have questions?** Call us at (800) 436-7800

## ORDERING GUIDE

[Back to Quick Links](#)

**TYPICAL ORDER EXAMPLE: MRM LED 36L SIL FTA UNV DIM 50 70CRI ALSCS04 BRZ IL**

| Prefix                         | Light Source | Lumen Package   | Lens           | Distribution   | Orientation <sup>2</sup>  | Voltage  | Driver                      |
|--------------------------------|--------------|---|----------------|--|---|--|-----------------------------|
| MRM - Mirada Medium Area Light | LED          | 7L - 7,000 lms, 48W<br>9L - 9,000 lms, 62W<br>12L - 12,000 lms, 85W<br>18L - 18,000 lms, 135W<br>24L - 24,000 lms, 176W<br>30L - 30,000 lms, 232W<br>36L - 36,000 lms, 288W<br>42L - 42,000 lms, 314W<br>48L - 48,000 lms, 401W<br>55L - 55,000 lms, 438W<br>Custom Lumen Packages <sup>1</sup> | SIL - Silicone | 2 - Type 2<br>3 - Type 3<br>4 - Type 4<br>5W - Type 5 Wide<br>FT - Forward Throw<br>FTA - Forward Throw Automotive<br>AM - Automotive Merchandise<br>LC - Left Corner<br>RC - Right Corner | (blank) - standard<br>L - Optics rotated left 90°<br>R - Optics rotated right 90° | UNV - Universal Voltage (120-277V)<br>HV - High Voltage (347-480V) | DIM - 0-10V Dimming (0-10%) |

| Color Temp   | Color Rendering | Finish   | Options  |
|--|-----------------|--|--|
| 50 - 5,000 CCT<br>40 - 4,000 CCT<br>30 - 3,000 CCT<br>AMB - Phosphor Converted Amber <sup>12</sup> | 70CRI - 70 CRI  | BLK - Black<br>BRZ - Dark Bronze<br>GMG - Gun Metal Gray<br>GPT - Graphite | MSV - Metallic Silver<br>PLP - Platinum Plus<br>SVG - Satin Verde Green<br>WHT - White<br>(Blank) - None<br>IH - Integral Half Louver (Moderate Spill Light Cutoff) <sup>2</sup><br>IL - Integral Louver (Sharp Spill Light Cutoff) <sup>2</sup> |

### Controls (Choose One)

(Blank) - None

#### Wireless Controls System

ALSC - AirLink Synapse Control System<sup>13</sup>

ALSCS02 - AirLink Synapse Control System with 12-20' Motion Sensor<sup>13</sup>

ALSCS04 - AirLink Synapse Control System with 20-40' Motion Sensor<sup>13</sup>

ALBCS1 - AirLink Blue Wireless Motion & Photo Sensor Controller (8-24' mounting height)<sup>5</sup>

ALBCS2 - AirLink Blue Wireless Motion & Photo Sensor Controller (25-40' mounting height)<sup>5</sup>

#### Stand-Alone Controls

EXT - 0-10v Dimming leads extended to housing exterior

CR7P - 7 Pin Control Receptacle ANSI C136.41<sup>6</sup>

IMSBT1L - Integral Bluetooth™ Motion and Photocell Sensor (8-24' MH)<sup>5</sup>

IMSBT12 - Integral Bluetooth™ Motion and Photocell Sensor (25-40' MH)<sup>5</sup>

#### Button Type Photocells

PC120 - 120V

PC1208-277 - 208 -277V

PC1347 - 347V



**Need more information?**

Click here for our glossary

**Have additional questions?**

Call us at (800) 436-7800



## ACCESSORY ORDERING INFORMATION<sup>7</sup>

| CONTROLS ACCESSORIES   |                |
|--|----------------|
| Description  | Order Number   |
| PC120 Photocell for use with CR7P option (120V) <sup>8</sup>                 | <b>122514</b>  |
| PC208-277 Photocell for use with CR7P option (208V, 240V, 277V) <sup>8</sup> | <b>122515</b>  |
| Twist Lock Photocell (347V) for use with CR7P <sup>8</sup>                   | <b>122516</b>  |
| Twist Lock Photocell (480V) for use with CR7P <sup>8</sup>                   | <b>1225180</b> |
| AirLink 5 Pin Twist Lock Controller (120-277V Only) <sup>8</sup>             | <b>661409</b>  |
| AirLink 7 Pin Twist Lock Controller (120-277V Only) <sup>8</sup>             | <b>661410</b>  |
| AirLink 7 Pin Twist Lock Controller (347-480V)                               | <b>679948</b>  |
| Shorting Cap for use with CR7P   | <b>149328</b>  |

| FUSING OPTIONS <sup>11</sup> |  |
|------------------------------|--|
| Single Fusing (120V)         |  |
| Single Fusing (277V)         |  |
| Double Fusing (208, 240V)    |  |
| Double Fusing (480V)         |  |
| Double Fusing (347V)         |  |

[See Fusing Accessory Guide](#)

| SHIELDING OPTIONS |  |
|-------------------|--|
| Mirada Small      |  |
| Mirada Medium     |  |
| Mirada Large      |  |
| Zone Medium       |  |
| Zone Large        |  |
| Slice Medium      |  |

[See Shielding Guide](#)

- Custom lumen and wattage packages available, consult factory. Values are within industry standard tolerances but not DLC listed.
- Not available with 5W distribution
- Consult Factory for availability.
- Not available in HV.
- Motion sensors are field configurable via an app that can be downloaded from your smartphone's native app store. See controls section for more details.
- Control device or shorting cap must be ordered separately. See Accessory Ordering Information.
- Accessories are shipped separately and field installed.
- Factory installed CR7P option required. See Options.
- "CLR" denotes finish. See Finish options.
- Only available with ALSC/ALSCH control options.
- Fusing must be located in hand hole of pole. See [Fusing Accessory Guide](#) for compatibility.
- Only available in 9L, 12L, 18L and 24L Lumen Packages. Consult factory for lead time and availability.
- Not available with 55L Lumen Package.

# Mirada Medium Outdoor LED Area Light

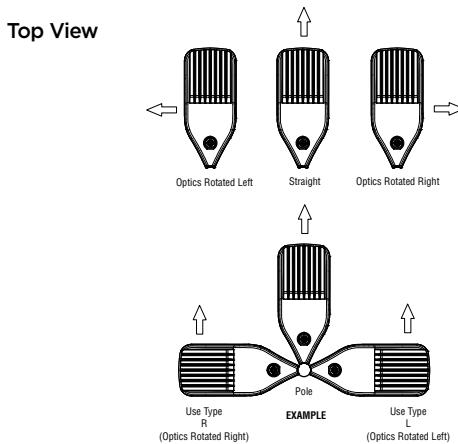
Have questions? Call us at (800) 436-7800

Type: \_\_\_\_\_

## ACCESSORIES

| MOUNTING ACCESSORIES  |  |   | SHIELDING, POLES & MISC. ACCESSORIES |  |   |
|-----------------------|--|---|--------------------------------------|--|---|
| Side Arm              | <b>Universal Mounting Bracket</b><br>Mounts to ≥ 3" square or round (tapered/straight) poles with (2) mounting hole spaces between 3.5" to 5"<br><br>Part Number: BKA UMB CLR      |    | Shielding                            | <b>Integral Louver</b><br>Field Install Integral Louver provides maximum backlight control by shielding each individual row of LEDs<br><br>Part Number: 690981   |    |
|                       | <b>Quick Mount Plate</b><br>True one person installation to existing/new construction poles with hole spaces between 2.4 to 4.6"<br><br>Part Number: BKS PQM B3B5 XX CLR           |    |                                      | <b>Integral Half Louver</b><br>Field Install Integral Half Louver provides great backlight control without impacting front side distribution.<br><br>Part Number: 743415   |    |
|                       | <b>15° Tilt Quick Mount Plate</b><br>True one person installation to existing/new construction poles with hole spaces between 2.4 to 4.6"<br><br>Part Number: BKS PQ15 B3B5 XX CLR |    |                                      | <b>External Shield</b><br>External shield blocks view of light source from any side of luminaire, additional shielding configurations available<br><br>Part Number: 783607BLK (3") / 776538BLK (6")  |    |
| Tenon / Slipfitter    | <b>Adjustable Slipfitter</b><br>Mounts onto a 2" (51mm) IP, 2.375" (60mm) O.D. tenon and provides 180° of tilt (max 45° above horizontal)<br><br>Part Number: BKA ASF CLR          |    | Poles                                | <b>Square Poles</b><br>14 - 39' steel and aluminum poles in 4", 5" and 6" sizes for retrofit and new construction<br><br>Part Number: 4SQ/5SQ/6SQ  |    |
|                       | <b>Square Tenon Top</b><br>Mounts onto a 2" (51mm) IP, 2.375" (60mm) O.D. tenon and allows for mounting up to 4 luminaires<br><br>Part Number: BKA XNM *                           |    |                                      | <b>Round Poles</b><br>10 - 30' steel and aluminum poles in 4" and 5" sizes for retrofit and new construction<br><br>Part Number: 4RP/5RP   |    |
|                       | <b>Square Internal Slipfitter</b><br>Mounts inside 4" or 5" square pole and allows for mounting up to 4 luminaires<br><br>Part Number: BKA X_ISF * CLR                             |  |                                      | <b>Tapered Poles</b><br>20' - 39' steel and aluminum poles for retrofit and new construction<br><br>Part Number: RTP   |  |
| Wall Mount/ Wood Pole | <b>Wall Mount Bracket</b><br>Mounts onto vertical wall surface (hardware/anchors not included)<br><br>Part Number: BKS XBO WM CLR  |  | Misc.                                | <b>Bird Spikes</b><br>10' Linear Bird Spike Kit, 4' recommended per luminaire, includes silicone adhesive and application tool<br><br>Spike Part Number: 751631<br>Adhesive Part Number: 751632<br>Caulk Gun Part Number: 751636   |  |
|                       | <b>Wood Pole Bracket</b><br>Mounts onto wooden poles (6" minimum OD, hardware/anchors not included)<br><br>Part Number: BKS XBO WP CLR   |  |                                      | Replace CLR with paint finish description<br>Replace X with: 3<br>Replace XX with SQ for square pole or RD for round pole (≥3" OD)<br>Replace * with S (Single), D180 (Double @180°), D90 (Double @90°), T90 (Triple), Q90 (Quad)<br>Replace _ with 4 (4" square pole) or 5 (5" square pole) |   |

## OPTICS ROTATION



## ACCESSORIES/OPTIONS

### Integral Louver (IL) and House-Side Shield (IH)

Integral Louver (IL) and half louver (IH) accessory shields available for improved backlight control without sacrificing street side performance. LSI's Integral Louver (IL) and Integral House-Side Shield (IH) options deliver backlight control that significantly reduces spill light behind the poles for applications with pole locations close to adjacent properties. The design maximizes forward reflected light while reducing glare, maintaining the optical distribution selected, and most importantly eliminating light trespass. Both options rotate

Luminaire Shown with Integral Louver (IL)



Luminaire Shown with IMSBTL Option



### 7 Pin Photoelectric Control

7-pin ANSI C136.41-2013 control receptacle option available for twist lock photocontrols or wireless control modules. Control accessories sold separately. Dimming leads from the receptacle will be connected to the driver dimming leads (Consult factory for alternate wiring).

Luminaire Shown with CR7P



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# Mirada Medium Outdoor LED Area Light

Type: \_\_\_\_\_

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## PERFORMANCE

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| DELIVERED LUMENS* |              |     |                  |          |            |                  |          |            |                  |          |            |
|-------------------|--------------|-----|------------------|----------|------------|------------------|----------|------------|------------------|----------|------------|
| Lumen Package     | Distribution | CRI | 3000K CCT        |          |            | 4000K CCT        |          |            | 5000K CCT        |          |            |
|                   |              |     | Delivered Lumens | Efficacy | BUG Rating | Delivered Lumens | Efficacy | BUG Rating | Delivered Lumens | Efficacy | BUG Rating |
| 9L                | 2            | 70  | 9853             | 159      | B2-U0-G2   | 9853             | 159      | B2-U0-G2   | 9853             | 159      | B2-U0-G2   |
|                   | 3            |     | 9926             | 160      | B2-U0-G2   | 9926             | 160      | B2-U0-G2   | 9926             | 160      | B2-U0-G2   |
|                   | 4            |     | 9178             | 148      | B2-U0-G3   | 9713             | 157      | B2-U0-G3   | 9498             | 153      | B2-U0-G3   |
|                   | 5W           |     | 9504             | 153      | B3-U0-G2   | 9504             | 153      | B3-U0-G2   | 9504             | 153      | B3-U0-G2   |
|                   | FT           |     | 9856             | 159      | B2-U0-G3   | 9856             | 159      | B2-U0-G3   | 9856             | 159      | B2-U0-G3   |
|                   | FTA          |     | 9900             | 160      | B2-U0-G2   | 9900             | 160      | B2-U0-G2   | 9900             | 160      | B2-U0-G2   |
|                   | AM           |     | 10019            | 162      | B2-U0-G1   | 10019            | 162      | B2-U0-G1   | 10019            | 162      | B2-U0-G1   |
|                   | LC/RC        |     | 9008             | 145      | B2-U0-G3   | 9533             | 154      | B2-U0-G3   | 9321             | 150      | B2-U0-G3   |
| 12L               | 2            | 70  | 13135            | 155      | B3-U0-G2   | 13135            | 155      | B3-U0-G2   | 13135            | 155      | B3-U0-G2   |
|                   | 3            |     | 13232            | 156      | B2-U0-G2   | 13232            | 156      | B2-U0-G2   | 13232            | 156      | B2-U0-G2   |
|                   | 4            |     | 12223            | 144      | B2-U0-G3   | 12935            | 152      | B2-U0-G4   | 12648            | 149      | B2-U0-G4   |
|                   | 5W           |     | 12669            | 149      | B4-U0-G2   | 12669            | 149      | B4-U0-G2   | 12669            | 149      | B4-U0-G2   |
|                   | FT           |     | 13138            | 155      | B2-U0-G3   | 13138            | 155      | B2-U0-G3   | 13138            | 155      | B2-U0-G3   |
|                   | FTA          |     | 13196            | 155      | B2-U0-G2   | 13196            | 155      | B2-U0-G2   | 13196            | 155      | B2-U0-G2   |
|                   | AM           |     | 13355            | 157      | B2-U0-G2   | 13355            | 157      | B2-U0-G2   | 13355            | 157      | B2-U0-G2   |
|                   | LC/RC        |     | 11996            | 141      | B2-U0-G3   | 12695            | 149      | B2-U0-G3   | 12414            | 146      | B2-U0-G3   |
| 18L               | 2            | 70  | 19318            | 143      | B3-U0-G3   | 19318            | 143      | B3-U0-G3   | 19318            | 143      | B3-U0-G3   |
|                   | 3            |     | 19461            | 144      | B3-U0-G3   | 19461            | 144      | B3-U0-G3   | 19461            | 144      | B3-U0-G3   |
|                   | 4            |     | 18013            | 133      | B2-U0-G4   | 19063            | 141      | B3-U0-G5   | 18640            | 138      | B3-U0-G5   |
|                   | 5W           |     | 18633            | 138      | B4-U0-G2   | 18633            | 138      | B4-U0-G2   | 18633            | 138      | B4-U0-G2   |
|                   | FT           |     | 19324            | 143      | B3-U0-G3   | 19324            | 143      | B3-U0-G3   | 19324            | 143      | B3-U0-G3   |
|                   | FTA          |     | 19408            | 144      | B3-U0-G3   | 19408            | 144      | B3-U0-G3   | 19408            | 144      | B3-U0-G3   |
|                   | AM           |     | 19641            | 145      | B3-U0-G2   | 19641            | 145      | B3-U0-G2   | 19641            | 145      | B3-U0-G2   |
|                   | LC/RC        |     | 17679            | 131      | B2-U0-G3   | 18710            | 139      | B2-U0-G3   | 18295            | 136      | B2-U0-G3   |
| 24L               | 2            | 70  | 24142            | 147      | B4-U0-G3   | 25957            | 147      | B4-U0-G3   | 25957            | 147      | B4-U0-G3   |
|                   | 3            |     | 25001            | 149      | B3-U0-G3   | 26149            | 149      | B3-U0-G3   | 26149            | 149      | B3-U0-G3   |
|                   | 4            |     | 24396            | 152      | B3-U0-G5   | 25600            | 160      | B3-U0-G5   | 25457            | 159      | B3-U0-G5   |
|                   | 5W           |     | 24327            | 142      | B5-U0-G3   | 25037            | 142      | B5-U0-G3   | 25037            | 142      | B5-U0-G3   |
|                   | FT           |     | 24994            | 148      | B3-U0-G3   | 25964            | 148      | B3-U0-G3   | 25964            | 148      | B3-U0-G3   |
|                   | FTA          |     | 24171            | 148      | B3-U0-G3   | 26077            | 148      | B4-U0-G3   | 26077            | 148      | B4-U0-G3   |
|                   | AM           |     | 24939            | 150      | B3-U0-G2   | 26393            | 150      | B3-U0-G2   | 26393            | 150      | B3-U0-G2   |
|                   | LC/RC        |     | 25884            | 162      | B3-U0-G4   | 25884            | 162      | B3-U0-G4   | 25310            | 158      | B3-U0-G4   |
| 30L               | 2            | 70  | 30171            | 140      | B4-U0-G3   | 32417            | 140      | B4-U0-G3   | 32417            | 140      | B4-U0-G3   |
|                   | 3            |     | 31243            | 141      | B3-U0-G4   | 32656            | 141      | B3-U0-G4   | 32656            | 141      | B3-U0-G4   |
|                   | 4            |     | 30651            | 144      | B3-U0-G5   | 32141            | 151      | B3-U0-G5   | 31961            | 150      | B3-U0-G5   |
|                   | 5W           |     | 30402            | 135      | B5-U0-G3   | 31267            | 135      | B5-U0-G3   | 31267            | 135      | B5-U0-G3   |
|                   | FT           |     | 31233            | 140      | B4-U0-G4   | 32424            | 140      | B4-U0-G4   | 32424            | 140      | B4-U0-G4   |
|                   | FTA          |     | 30207            | 140      | B4-U0-G4   | 32566            | 140      | B4-U0-G4   | 32566            | 140      | B4-U0-G4   |
|                   | AM           |     | 3116             | 142      | B4-U0-G3   | 32960            | 142      | B4-U0-G3   | 32960            | 142      | B4-U0-G3   |
|                   | LC/RC        |     | 32498            | 153      | B3-U0-G5   | 32498            | 153      | B3-U0-G5   | 31777            | 149      | B3-U0-G5   |

\*LEDs are frequently updated therefore values are nominal.



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# Mirada Medium Outdoor LED Area Light

Type : \_\_\_\_\_

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## PERFORMANCE (CONT.)

| DELIVERED LUMENS* |              |     |                  |          |            |                  |          |            |                  |          |            |         |
|-------------------|--------------|-----|------------------|----------|------------|------------------|----------|------------|------------------|----------|------------|---------|
| Lumen Package     | Distribution | CRI | 3000K CCT        |          |            | 4000K CCT        |          |            | 5000K CCT        |          |            | Wattage |
|                   |              |     | Delivered Lumens | Efficacy | BUG Rating | Delivered Lumens | Efficacy | BUG Rating | Delivered Lumens | Efficacy | BUG Rating |         |
| 36L               | 2            | 70  | 35357            | 133      | B4-U0-G3   | 38275            | 133      | B4-U0-G3   | 38275            | 133      | B4-U0-G3   | 288     |
|                   | 3            |     | 36614            | 134      | B4-U0-G4   | 38557            | 134      | B4-U0-G4   | 38557            | 134      | B4-U0-G4   |         |
|                   | 4            |     | 35402            | 139      | B3-U0-G5   | 37148            | 146      | B4-U0-G5   | 36940            | 145      | B4-U0-G5   |         |
|                   | 5W           |     | 35627            | 128      | B5-U0-G4   | 36917            | 128      | B5-U0-G4   | 36917            | 128      | B5-U0-G4   |         |
|                   | FT           |     | 36602            | 133      | B4-U0-G4   | 38283            | 133      | B4-U0-G4   | 38283            | 133      | B4-U0-G4   |         |
|                   | FTA          |     | 35399            | 134      | B4-U0-G4   | 38450            | 134      | B4-U0-G4   | 38450            | 134      | B4-U0-G4   |         |
|                   | AM           |     | 36524            | 135      | B4-U0-G3   | 38916            | 135      | B4-U0-G3   | 38916            | 135      | B4-U0-G3   |         |
|                   | LC/RC        |     | 37561            | 147      | B3-U0-G5   | 37561            | 147      | B3-U0-G5   | 36727            | 144      | B3-U0-G5   |         |
|                   | 2            |     | 41035            | 131      | B5-U0-G4   | 42602            | 136      | B5-U0-G4   | 42542            | 135      | B5-U0-G4   | 314     |
| 42L               | 3            | 70  | 42493            | 135      | B4-U0-G5   | 44115            | 140      | B4-U0-G5   | 44053            | 140      | B4-U0-G5   |         |
|                   | 4            |     | 41453            | 132      | B4-U0-G5   | 43497            | 138      | B4-U0-G5   | 43254            | 138      | B4-U0-G5   |         |
|                   | 5W           |     | 41349            | 132      | B5-U0-G4   | 42927            | 134      | B5-U0-G4   | 42866            | 137      | B5-U0-G4   |         |
|                   | FT           |     | 42481            | 135      | B4-U0-G4   | 44103            | 140      | B4-U0-G4   | 44040            | 140      | B4-U0-G4   |         |
|                   | FTA          |     | 41083            | 131      | B4-U0-G4   | 42652            | 136      | B5-U0-G4   | 42591            | 136      | B5-U0-G4   |         |
|                   | AM           |     | 42389            | 135      | B4-U0-G3   | 44007            | 140      | B4-U0-G3   | 43944            | 140      | B4-U0-G3   |         |
|                   | LC/RC        |     | 43980            | 140      | B3-U0-G5   | 43980            | 140      | B3-U0-G5   | 43004            | 137      | B3-U0-G5   |         |
|                   | 2            | 70  | 45133            | 123      | B5-U0-G4   | 46856            | 128      | B5-U0-G4   | 46789            | 128      | B5-U0-G4   | 401     |
|                   | 3            |     | 46737            | 128      | B4-U0-G5   | 48521            | 133      | B4-U0-G5   | 48452            | 132      | B4-U0-G5   |         |
|                   | 4            |     | 46006            | 126      | B4-U0-G5   | 48275            | 132      | B4-U0-G5   | 48005            | 131      | B4-U0-G5   |         |
|                   | 5W           |     | 45478            | 124      | B5-U0-G4   | 47214            | 129      | B5-U0-G4   | 47147            | 129      | B5-U0-G4   |         |
|                   | FT           |     | 46723            | 128      | B4-U0-G5   | 48507            | 133      | B4-U0-G5   | 48438            | 132      | B4-U0-G5   |         |
|                   | FTA          |     | 45187            | 123      | B5-U0-G4   | 46912            | 128      | B5-U0-G4   | 46845            | 128      | B5-U0-G4   |         |
|                   | AM           |     | 4662             | 127      | B4-U0-G3   | 48402            | 132      | B4-U0-G3   | 48333            | 132      | B4-U0-G3   |         |
|                   | LC/RC        |     | 48811            | 133      | B4-U0-G5   | 48811            | 133      | B4-U0-G5   | 47728            | 130      | B4-U0-G5   |         |
| 55L               | 2            | 70  | 50179            | 115      | B5-U0-G4   | 52095            | 119      | B5-U0-G4   | 52021            | 119      | B5-U0-G4   | 438     |
|                   | 3            |     | 51963            | 119      | B4-U0-G5   | 53947            | 123      | B4-U0-G5   | 53870            | 123      | B4-U0-G5   |         |
|                   | 4            |     | 51635            | 119      | B4-U0-G5   | 54181            | 125      | B4-U0-G5   | 53878            | 124      | B4-U0-G5   |         |
|                   | 5W           |     | 50563            | 115      | B5-U0-G4   | 52493            | 120      | B5-U0-G4   | 52418            | 120      | B5-U0-G4   |         |
|                   | FT           |     | 50539            | 115      | B4-U0-G5   | 52468            | 120      | B4-U0-G5   | 52394            | 120      | B4-U0-G5   |         |
|                   | FTA          |     | 50239            | 115      | B5-U0-G4   | 52157            | 119      | B5-U0-G4   | 52082            | 119      | B5-U0-G4   |         |
|                   | AM           |     | 52223            | 119      | B4-U0-G3   | 54216            | 124      | B4-U0-G3   | 54139            | 124      | B4-U0-G3   |         |
|                   | LC/RC        |     | 54113            | 124      | B4-U0-G5   | 54113            | 124      | B4-U0-G5   | 52912            | 121      | B4-U0-G5   |         |

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SPEC.1020.B.0422

# Mirada Medium Outdoor LED Area Light

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Type: \_\_\_\_\_

## PERFORMANCE (CONT.)

| ELECTRICAL DATA (AMPS)* |      |      |      |      |      |      |
|-------------------------|------|------|------|------|------|------|
| Lumens                  | 120V | 208V | 240V | 277V | 347V | 480V |
| 9L                      | 0.52 | 0.30 | 0.26 | 0.22 | 0.18 | 0.13 |
| 12L                     | 0.71 | 0.41 | 0.35 | 0.31 | 0.24 | 0.18 |
| 18L                     | 1.13 | 0.65 | 0.56 | 0.49 | 0.39 | 0.28 |
| 24L                     | 1.33 | 0.77 | 0.67 | 0.58 | 0.46 | 0.33 |
| 30L                     | 1.78 | 1.02 | 0.89 | 0.77 | 0.61 | 0.44 |
| 36L                     | 2.12 | 1.22 | 1.06 | 0.92 | 0.73 | 0.53 |
| 42L                     | 2.62 | 1.51 | 1.31 | 1.13 | 0.90 | 0.65 |
| 48L                     | 3.05 | 1.76 | 1.53 | 1.32 | 1.05 | 0.76 |
| 55L                     | 3.65 | 2.11 | 1.83 | 1.58 | 1.26 | 0.91 |

| RECOMMENDED LUMEN MAINTENANCE <sup>1</sup> (0-25°C) |                      |                  |                   |                   |                    |
|---|----------------------|------------------|-------------------|-------------------|--------------------|
| Ambient   | Initial <sup>2</sup> | 25h <sup>2</sup> | 50hr <sup>2</sup> | 75hr <sup>2</sup> | 100hr <sup>2</sup> |
| 9L - 18L  | 100%                 | 97%              | 93%               | 90%               | 86%                |
| 24L - 48L   | 100%                 | 95%              | 89%               | 84%               | 79%                |
| 55L   | 100%                 | 91%              | 82%               | 74%               | 67%                |

| RECOMMENDED LUMEN MAINTENANCE <sup>1</sup> (40°C) |                      |                  |                   |                   |                    |
|---|----------------------|------------------|-------------------|-------------------|--------------------|
| Ambient   | Initial <sup>2</sup> | 25h <sup>2</sup> | 50hr <sup>2</sup> | 75hr <sup>2</sup> | 100hr <sup>2</sup> |
| 9L - 18L  | 100%                 | 97%              | 92%               | 88%               | 84%                |
| 24L - 48L   | 100%                 | 94%              | 87%               | 80%               | 74%                |

| RECOMMENDED LUMEN MAINTENANCE <sup>1</sup> (50°C) |                      |                  |                   |                   |                    |
|---|----------------------|------------------|-------------------|-------------------|--------------------|
| Ambient   | Initial <sup>2</sup> | 25h <sup>2</sup> | 50hr <sup>2</sup> | 75hr <sup>2</sup> | 100hr <sup>2</sup> |
| 9L - 18L C  | 100%                 | 96%              | 91%               | 87%               | 85%                |

\*Electrical data at 25°C (77°F). Actual wattage may differ by +/-10%

1. Lumen maintenance values at 25C are calculated per TM-21 based on LM-80 data and in-situ testing.
2. In accordance with IESNA TM-21-11, Projected Values represent interpolated value based on time durations that are within six times the IESNA LM-80-08 total test duration for the device under testing.
3. In accordance with IESNA TM-21-11, Calculated Values represent time durations that exceed six times the IESNA LM-80-08 total test duration for the device under testing.

| DELIVERED LUMENS* |              |                                       |          |            |         |
|-------------------|--------------|---------------------------------------|----------|------------|---------|
| Lumen Package     | Distribution | Phosphor Converted Amber (Peak 610mm) |          |            | Wattage |
|                   |              | Delivered Lumens                      | Efficacy | BUG Rating |         |
| 9L                | 2            | 5848                                  | 80       | B2-U0-G2   | 74      |
|                   | 3            | 6018                                  | 82       | B1-U0-G2   |         |
|                   | 5W           | 5471                                  | 74       | B3-U0-G1   |         |
|                   | FT           | 5801                                  | 79       | B1-U0-G2   |         |
|                   | FTA          | 5924                                  | 81       | B1-U0-G1   |         |
|                   | AM           | 5995                                  | 81       | B1-U0-G1   |         |
| 12L               | 2            | 7530                                  | 74       | B2-U0-G2   | 102     |
|                   | 3            | 7749                                  | 76       | B1-U0-G2   |         |
|                   | 5W           | 7045                                  | 69       | B3-U0-G2   |         |
|                   | FT           | 7470                                  | 73       | B2-U0-G2   |         |
|                   | FTA          | 7628                                  | 75       | B2-U0-G2   |         |
|                   | AM           | 7720                                  | 76       | B1-U0-G1   |         |
| 18L               | 2            | 9311                                  | 69       | B2-U0-G2   | 135     |
|                   | 3            | 9582                                  | 71       | B2-U0-G2   |         |
|                   | 5W           | 8712                                  | 65       | B3-U0-G2   |         |
|                   | FT           | 9237                                  | 68       | B2-U0-G2   |         |
|                   | FTA          | 9433                                  | 70       | B2-U0-G2   |         |
|                   | AM           | 9546                                  | 71       | B2-U0-G1   |         |
| 24L               | 2            | 10955                                 | 63       | B2-U0-G2   | 175     |
|                   | 3            | 11273                                 | 64       | B2-U0-G2   |         |
|                   | 5W           | 10249                                 | 59       | B3-U0-G2   |         |
|                   | FT           | 10867                                 | 62       | B2-U0-G2   |         |
|                   | FTA          | 11097                                 | 63       | B2-U0-G2   |         |
|                   | AM           | 11230                                 | 64       | B2-U0-G1   |         |

| ELECTRICAL DATA - PHOSPHOR CONVERTED AMBER (AMPS)* |      |      |      |      |      |
|--|------|------|------|------|------|
| Lumens   | 120V | 208V | 240V | 277V | 347V |
| 9L   | 0.62 | 0.36 | 0.31 | 0.27 | 0.21 |
| 12L  | 0.85 | 0.50 | 0.43 | 0.38 | 0.30 |
| 18L  | 1.13 | 0.65 | 0.56 | 0.49 | 0.39 |
| 24L  | 1.47 | 0.85 | 0.73 | 0.64 | 0.51 |

\*LEDs are frequently updated therefore values are nominal.



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SPEC.1020.B.0422

# Mirada Medium Outdoor LED Area Light

Have questions? Call us at (800) 436-7800

Type: \_\_\_\_\_

## PHOTOMETRICS

[Back to Quick Links](#)

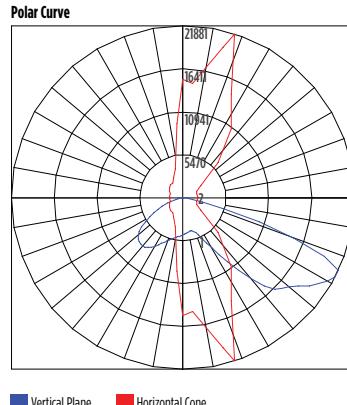
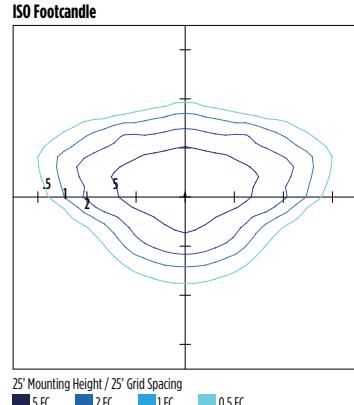
Luminaire photometry has been conducted by a NVLAP accredited testing laboratory in accordance with IESNA LM-79-08. As specified by IESNA LM-79-08 the entire luminaire is tested as the source resulting in a luminaire efficiency of 100%.

See the individual product page on <https://www.lsicorp.com/> for detailed photometric data.

### MRM-LED-30L-SIL-2-40-70CRI

| Luminaire Data      |                     |
|---------------------|---------------------|
| Type 2 Distribution |                     |
| Description         | 4000 Kelvin, 70 CRI |
| Delivered Lumens    | 32,416              |
| Watts               | 232                 |
| Efficacy            | 140                 |
| IES Type            | Type II - Short     |
| BUG Rating          | B4-U0-G3            |

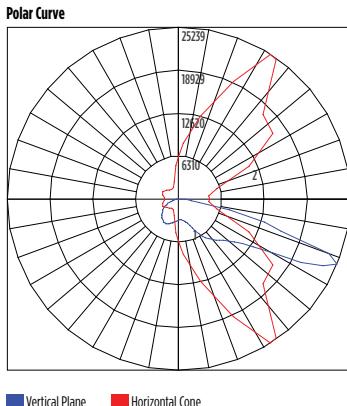
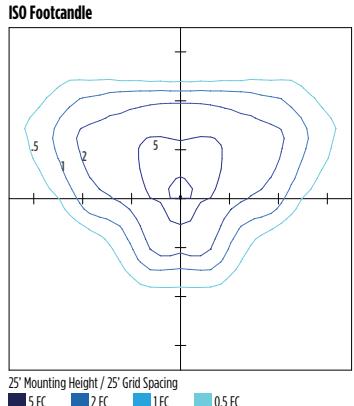
| Zonal Lumen Summary |        |             |
|---------------------|--------|-------------|
| Zone                | Lumens | % Luminaire |
| Low (0-30°)         | 4796   | 15%         |
| Medium (30-60°)     | 19811  | 61%         |
| High (60-80°)       | 7474   | 23%         |
| Very High (80-90°)  | 335    | 1%          |
| Uplight (90-180°)   | 0      | 0%          |
| Total Flux          | 32416  | 100%        |



### MRM-LED-30L-SIL-3-40-70CRI

| Luminaire Data      |                     |
|---------------------|---------------------|
| Type 3 Distribution |                     |
| Description         | 4000 Kelvin, 70 CRI |
| Delivered Lumens    | 32,656              |
| Watts               | 232                 |
| Efficacy            | 141                 |
| IES Type            | Type III - Short    |
| BUG Rating          | B3-U0-G4            |

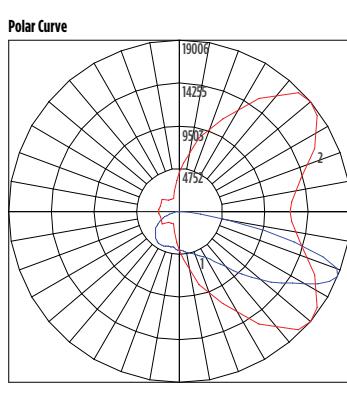
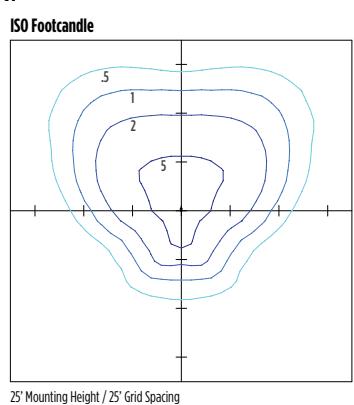
| Zonal Lumen Summary |        |             |
|---------------------|--------|-------------|
| Zone                | Lumens | % Luminaire |
| Low (0-30°)         | 3385   | 10%         |
| Medium (30-60°)     | 16250  | 50%         |
| High (60-80°)       | 12430  | 38%         |
| Very High (80-90°)  | 591    | 2%          |
| Uplight (90-180°)   | 0      | 0%          |
| Total Flux          | 32656  | 100%        |



### MRM-LED-30L-SIL-FT-40-70CRI

| Luminaire Data       |                     |
|----------------------|---------------------|
| Type FT Distribution |                     |
| Description          | 4000 Kelvin, 70 CRI |
| Delivered Lumens     | 32,424              |
| Watts                | 232                 |
| Efficacy             | 140                 |
| IES Type             | Type IV - Short     |
| BUG Rating           | B3-U0-G4            |

| Zonal Lumen Summary |        |             |
|---------------------|--------|-------------|
| Zone                | Lumens | % Luminaire |
| Low (0-30°)         | 3952   | 12%         |
| Medium (30-60°)     | 15505  | 48%         |
| High (60-80°)       | 12279  | 38%         |
| Very High (80-90°)  | 688    | 2%          |
| Uplight (90-180°)   | 0      | 0%          |
| Total Flux          | 32424  | 100%        |



# Mirada Medium Outdoor LED Area Light

Type: \_\_\_\_\_

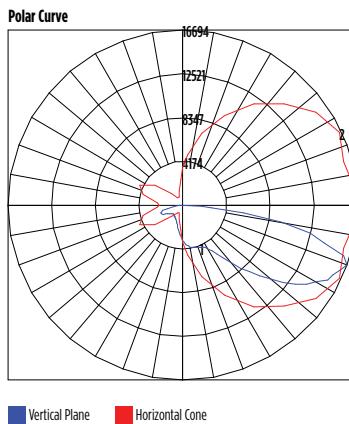
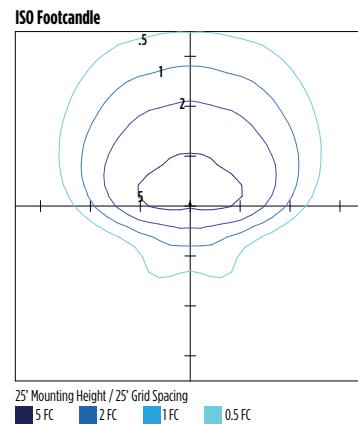
 Have questions? Call us at (800) 436-7800

## PHOTOMETRICS (CONT)

### MRM-LED-30L-SIL-4-40-70CRI

| Luminaire Data      |                      |
|---------------------|----------------------|
| Type 4 Distribution |                      |
| Description         | 4000 Kelvin, 70 CRI  |
| Delivered Lumens    | 32,141               |
| Watts               | 213                  |
| Efficacy            | 151                  |
| IES Type            | Type IV - Very Short |
| BUG Rating          | B3-U0-G5             |

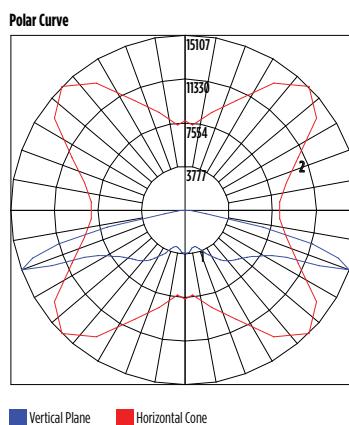
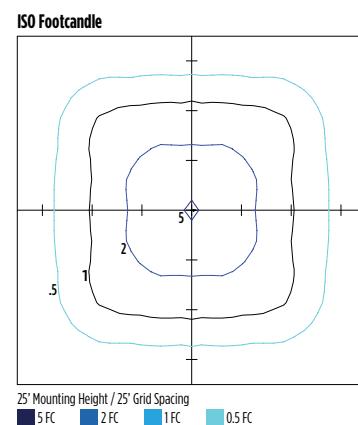
| Zonal Lumen Summary |        |             |
|---------------------|--------|-------------|
| Zone                | Lumens | % Luminaire |
| Low (0-30°)         | 3119   | 10%         |
| Medium (30-60°)     | 13569  | 42%         |
| High (60-80°)       | 13649  | 42%         |
| Very High (80-90°)  | 1804   | 6%          |
| Uplight (90-180°)   | 0      | 0%          |
| Total Flux          | 32141  | 100%        |



### MRM-LED-30L-SIL-5W-40-70CRI

| Luminaire Data       |                     |
|----------------------|---------------------|
| Type 5W Distribution |                     |
| Description          | 4000 Kelvin, 70 CRI |
| Delivered Lumens     | 31,267              |
| Watts                | 232                 |
| Efficacy             | 135                 |
| IES Type             | Type VS - Short     |
| BUG Rating           | B5-U0-G3            |

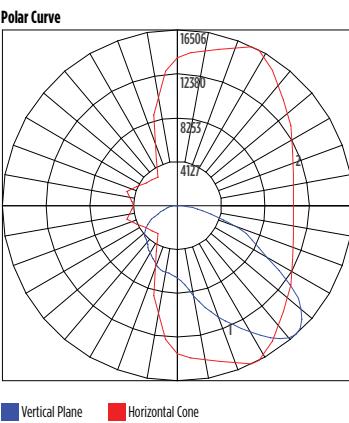
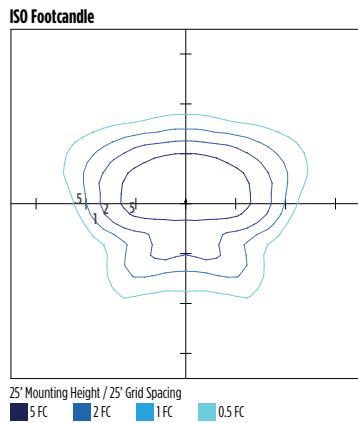
| Zonal Lumen Summary |        |             |
|---------------------|--------|-------------|
| Zone                | Lumens | % Luminaire |
| Low (0-30°)         | 3138   | 10%         |
| Medium (30-60°)     | 13193  | 42%         |
| High (60-80°)       | 14641  | 47%         |
| Very High (80-90°)  | 296    | 1%          |
| Uplight (90-180°)   | 0      | 0%          |
| Total Flux          | 31267  | 100%        |



### MRM-LED-30L-SIL-FTA-40-70CRI

| Luminaire Data        |                     |
|-----------------------|---------------------|
| Type FTA Distribution |                     |
| Description           | 4000 Kelvin, 70 CRI |
| Delivered Lumens      | 32,566              |
| Watts                 | 232                 |
| Efficacy              | 140                 |
| IES Type              | Type VS - Short     |
| BUG Rating            | B4-U0-G3            |

| Zonal Lumen Summary |        |             |
|---------------------|--------|-------------|
| Zone                | Lumens | % Luminaire |
| Low (0-30°)         | 6986   | 21%         |
| Medium (30-60°)     | 19172  | 59%         |
| High (60-80°)       | 5875   | 18%         |
| Very High (80-90°)  | 534    | 2%          |
| Uplight (90-180°)   | 0      | 0%          |
| Total Flux          | 32566  | 100%        |



# Mirada Medium Outdoor LED Area Light

Type: \_\_\_\_\_

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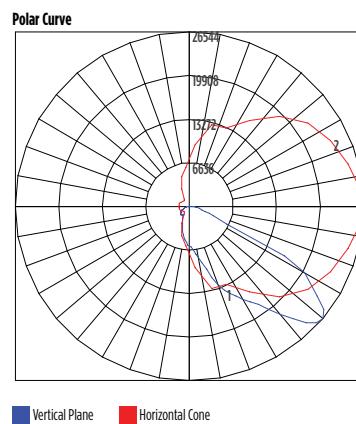
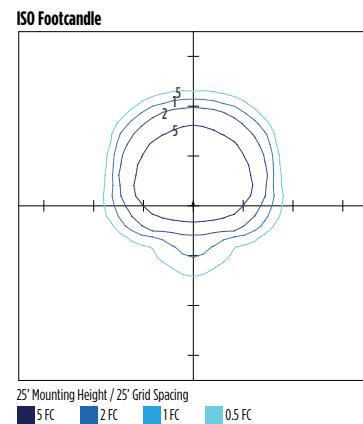
## PHOTOMETRICS (CONT)

[Back to Quick Links](#)

### MRM-LED-30L-SIL-AM-40-70CRI

| Luminaire Data       |                       |
|----------------------|-----------------------|
| Type AM Distribution |                       |
| Description          | 4000 Kelvin, 70 CRI   |
| Delivered Lumens     | 32,960                |
| Watts                | 232                   |
| Efficacy             | 142                   |
| IES Type             | Type III - Very Short |
| BUG Rating           | B3-U0-G3              |

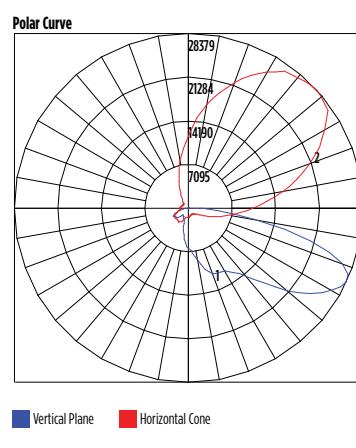
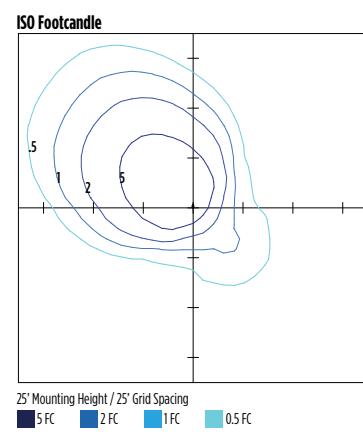
| Zonal Lumen Summary |        |             |
|---------------------|--------|-------------|
| Zone                | Lumens | % Luminaire |
| Low (0-30°)         | 6363   | 19%         |
| Medium (30-60°)     | 22026  | 67%         |
| High (60-80°)       | 4192   | 13%         |
| Very High (80-90°)  | 379    | 1%          |
| Uplight (90-180°)   | 0      | 0%          |
| Total Flux          | 32960  | 100%        |



### MRM-LED-30L-SIL-LC-40-70CRI

| Luminaire Data           |                     |
|--------------------------|---------------------|
| Left Corner Distribution |                     |
| Description              | 4000 Kelvin, 70 CRI |
| Delivered Lumens         | 32,498              |
| Watts                    | 213                 |
| Efficacy                 | 153                 |
| IES Type                 | N/A                 |
| BUG Rating               | B3-U0-G5            |

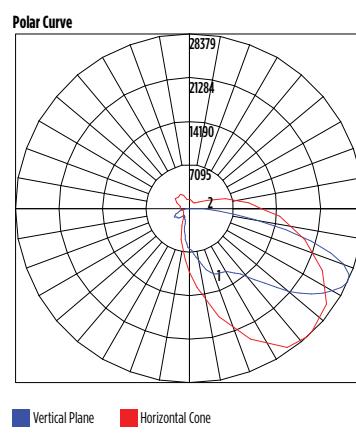
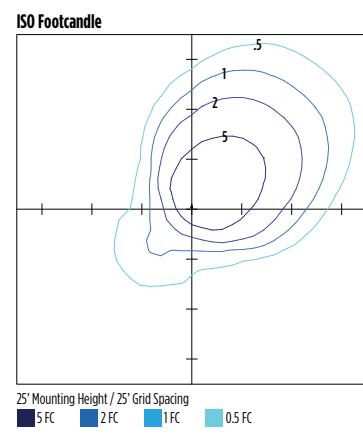
| Zonal Lumen Summary |        |             |
|---------------------|--------|-------------|
| Zone                | Lumens | % Luminaire |
| Low (0-30°)         | 5083   | 16%         |
| Medium (30-60°)     | 14808  | 46%         |
| High (60-80°)       | 11603  | 36%         |
| Very High (80-90°)  | 1005   | 3%          |
| Uplight (90-180°)   | 0      | 0%          |
| Total Flux          | 32498  | 100%        |



### MRM-LED-30L-SIL-RC-40-70CRI

| Luminaire Data            |                     |
|---------------------------|---------------------|
| Right Corner Distribution |                     |
| Description               | 4000 Kelvin, 70 CRI |
| Delivered Lumens          | 32,498              |
| Watts                     | 213                 |
| Efficacy                  | 153                 |
| IES Type                  | N/A                 |
| BUG Rating                | B3-U0-G5            |

| Zonal Lumen Summary |        |             |
|---------------------|--------|-------------|
| Zone                | Lumens | % Luminaire |
| Low (0-30°)         | 5083   | 16%         |
| Medium (30-60°)     | 14808  | 46%         |
| High (60-80°)       | 11603  | 36%         |
| Very High (80-90°)  | 1005   | 3%          |
| Uplight (90-180°)   | 0      | 0%          |
| Total Flux          | 32498  | 100%        |



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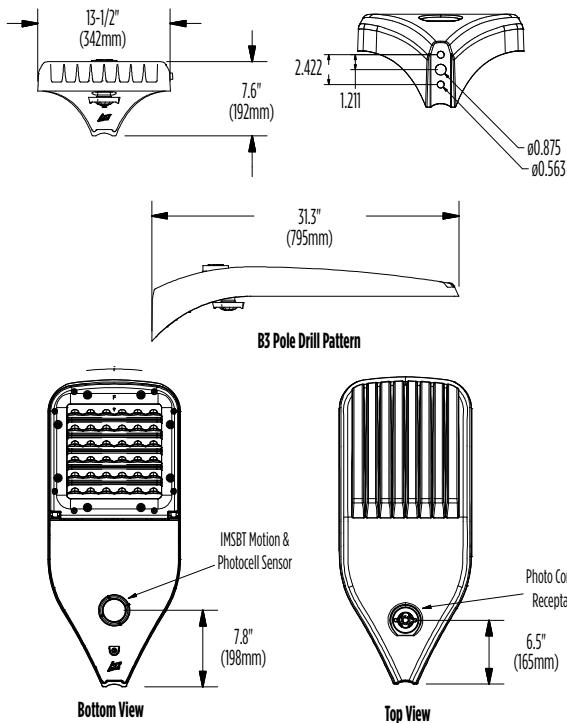
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# Mirada Medium Outdoor LED Area Light

Type: \_\_\_\_\_

 **Have questions?** Call us at (800) 436-7800

## PRODUCT DIMENSIONS



### Luminaire EPA Chart

| Tilt Degree   | 0°  | 15° | 30° | 45° |
|---|-----|-----|-----|-----|
|  <b>Single</b> | 0.5 | 1.0 | 1.5 | 1.9 |
|  <b>D180°</b>  | 1.0 | 1.5 | 1.5 | 1.9 |
|  <b>D90°</b>   | 0.8 | 1.8 | 1.9 | 2.3 |
|  <b>T90°</b>   | 1.0 | 4.0 | 2.5 | 2.8 |
|  <b>TN120°</b> | 1.0 | 2.9 | 3.3 | 3.9 |
|  <b>Q90°</b>   | 1.0 | 4.0 | 2.5 | 2.8 |



# Mirada Medium Outdoor LED Area Light

Type: \_\_\_\_\_

 **Have questions?** Call us at (800) 436-7800

## CONTROLS

### Integral Bluetooth™ Motion and Photocell Sensor (IMSBTxL)

Slim low profile sensor provides multi-level control based on motion and/or daylight. Sensor controls 0-10 VDC LED drivers and is IP66 rated for cold and wet locations (-40°F to 167°F). Two unique PIR lenses are available and used based on fixture mounting height. All control parameters are adjustable via an iOS or Android App capable of storing and transmitting sensor profiles.

[Click here to learn more details about IMSBT](#)



LEVITON App



Apple



Android

### AirLink Blue (ALBCSx)

Wireless Bluetooth Mesh Outdoor Lighting Control System that provides energy savings, code compliance and enhanced safety/security for parking lots and parking garages. Three key components; Bluetooth wireless radio/sensor controller, Time Keeper and an iOS App. Capable of grouping multiple fixtures and sensors as well as scheduling time-based events by zone. Radio/Sensor Controller is factory integrated into Area/Site, Wall Mounted, Parking Garage and Canopy luminaires.

[Click here to learn more details about AirLink Blue](#)



AirLink Blue App



Apple

## Sensor Sequence of Operations

| Standard Programming | On Event | Off Event | On Light Level | Dim Light Level | Daylight Harvesting  | Delay To Off | Sensitivity |
|----------------------|----------|-----------|----------------|-----------------|----------------------|--------------|-------------|
| OMSBTxL/IMSBTxL      | Motion   | No Motion | 100%           | N/A             | On; Auto Calibration | 20 minutes   | High        |
| OMS                  | Motion   | No Motion | N/A            | N/A             | N/A                  | 30 seconds   | Auto        |

| Operation       | Description  |
|-----------------|--|
| On Event        | Trigger that activates lights to turn on; either automatic via motion detected or manually activated via push of button.   |
| Off Event       | Trigger that activates lights to turn off; either automatic via no motion detected or manually activated via push of button.   |
| On Light Level  | The light level that the fixtures will turn on to when ON EVENT occurs.  |
| Dim Light Level | The light level that the fixtures will dim down to when no motion is detected.   |
| Delay to Dim    | The amount of time after which no motion is detected that the fixtures will be triggered to dim down. This sequence is optional, and sensor can be programmed to only trigger the fixture to turn off by entering 100% in this field.  |
| Delay to Off    | The amount of time after which no motion is detected that the fixtures will be triggered to turn off. If delay to dim is part of the programmed functionality, this is the amount of time after which no motion is detected after the fixture have already dimmed down.  |
| Sensitivity     | The sensitivity can be set to high, medium, low, or auto where applicable. High will detect smaller, simple motions. Low will only detect larger more complex motions. Auto temperature calibration adjusts the PIR sensitivity as ambient temperature rises to increase detection of heat movement through the field of view. |



# Mirada Medium (MRM)

## Outdoor LED Area Light



IP66 IK08



| OVERVIEW             |                             |
|----------------------|-----------------------------|
| Lumen Package        | 7,000 - 55,000              |
| Wattage Range        | 48 - 438                    |
| Efficacy Range (LPW) | 115 - 162                   |
| Weight lbs(kg)       | 30 (13.6)                   |
| Control Options      | IMSBT, ALB, ALS, 7-Pin, PCI |

### QUICK LINKS

[Ordering Guide](#)[Performance](#)[Photometrics](#)[Dimensions](#)

## FEATURES & SPECIFICATIONS

### Construction

- Rugged die-cast aluminum housing contains factory prewired driver and optical unit. Cast aluminum wiring access door located underneath.
- Designed to mount to square or round poles.
- Fixtures are finished with LSI's DuraGrip® polyester powder coat finishing process. The DuraGrip finish withstands extreme weather changes without cracking or peeling. Other standard LSI finishes available. Consult factory.
- Shipping weight: 37 lbs in carton.

### Optical System

- State-of-the-Art one piece silicone optic sheet delivers industry leading optical control with an integrated gasket to provide IP66 rated sealed optical chamber in 1 component.
- Proprietary silicone refractor optics provide exceptional coverage and uniformity in IES Types 2, 3, 4, 5W, FT, FTA, AM, and LC/RC.
- Silicone optical material does not yellow or crack with age and provides a typical light transmittance of 93-95%.
- Zero uplight.
- Available in 5000K, 4000K, and 3000K color temperatures per ANSI C78.377. Also Available in Phosphor Converted Amber with Peak intensity at 610nm.
- Minimum CRI of 70.
- Integral louver (IL) and integral half louver (IH) options available for enhanced backlight control.

### Electrical

- High-performance programmable driver features over-voltage, under-voltage, short-circuit and over temperature protection. Custom lumen and wattage packages available.
- 0-10V dimming (10% - 100%) standard.
- Standard Universal Voltage (120-277 Vac) Input 50/60 Hz or optional High Voltage (347-480 Vac).
- L80 Calculated Life: >100k Hours (See Lumen Maintenance chart)
- Total harmonic distortion: <20%
- Operating temperature: -40°C to +50°C (-40°F to +122°F). 42L and 48L lumen packages rated to +40°C. 55L lumen package rate to +35°C.
- Power factor: >.90
- Input power stays constant over life.
- Field replaceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).
- High-efficacy LEDs mounted to metal-core circuit board to maximize heat dissipation
- Components are fully encased in potting material for moisture resistance. Driver complies with FCC standards. Driver and key electronic components can easily be accessed.

### Controls

- Optional integral passive infrared Bluetooth™ motion. Fixtures operate independently and can be commissioned via iOS or Android configuration app
- LSI's AirLink™ wireless control system options reduce energy and maintenance

costs while optimizing light quality 24/7. (see controls section for more details).

### Installation

- Designed to mount to square or round poles.
- A single fastener secures the hinged door, underneath the housing and provides quick & easy access to the electrical compartment.
- Included terminal block accepts up to 12 ga. wire.
- Utilizes LSI's traditional 3" drill pattern B3 for easy fastening of LSI products.

### Warranty

- LSI LED Fixtures carry a 5-year warranty.

### Listings

- Listed to UL 1598 and UL 8750.
- Meets Buy American Act requirements.
- IDA compliant; with 3000K color temperature selection.
- Title 24 Compliant; see local ordinance for qualification information.
- RoHS compliant
- Suitable for wet Locations.
- IP66 rated Luminaire per IEC 60598.
- 3G rated for ANSI C136.31 high vibration applications are qualified.
- DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at [www.designlights.org/QPL](http://www.designlights.org/QPL) to confirm which versions are qualified.
- Patented Silicone Optics (US Patent NO. 10,816,165 B2)
- IK08 rated luminaire per IEC 66262 mechanical impact code



# Mirada Medium Outdoor LED Area Light

 **Have questions?** Call us at (800) 436-7800

Type : \_\_\_\_\_

## ORDERING GUIDE

[Back to Quick Links](#)

**TYPICAL ORDER EXAMPLE: MRM LED 36L SIL FTA UNV DIM 50 70CRI ALSCS04 BRZ IL**

| Prefix                         | Light Source | Lumen Package   | Lens           | Distribution   | Orientation <sup>2</sup>  | Voltage  | Driver                      |
|--------------------------------|--------------|---|----------------|--|---|--|-----------------------------|
| MRM - Mirada Medium Area Light | LED          | 7L - 7,000 lms, 48W<br>9L - 9,000 lms, 62W<br>12L - 12,000 lms, 85W<br>18L - 18,000 lms, 135W<br>24L - 24,000 lms, 176W<br>30L - 30,000 lms, 232W<br>36L - 36,000 lms, 288W<br>42L - 42,000 lms, 314W<br>48L - 48,000 lms, 401W<br>55L - 55,000 lms, 438W<br>Custom Lumen Packages <sup>1</sup> | SIL - Silicone | 2 - Type 2<br>3 - Type 3<br>4 - Type 4<br>5W - Type 5 Wide<br>FT - Forward Throw<br>FTA - Forward Throw Automotive<br>AM - Automotive Merchandise<br>LC - Left Corner<br>RC - Right Corner | (blank) - standard<br>L - Optics rotated left 90°<br>R - Optics rotated right 90° | UNV - Universal Voltage (120-277V)<br>HV - High Voltage (347-480V) | DIM - 0-10V Dimming (0-10%) |

| Color Temp   | Color Rendering | Finish   | Options  |
|--|-----------------|--|--|
| 50 - 5,000 CCT<br>40 - 4,000 CCT<br>30 - 3,000 CCT<br>AMB - Phosphor Converted Amber <sup>12</sup> | 70CRI - 70 CRI  | BLK - Black<br>BRZ - Dark Bronze<br>GMG - Gun Metal Gray<br>GPT - Graphite | MSV - Metallic Silver<br>PLP - Platinum Plus<br>SVG - Satin Verde Green<br>WHT - White<br>(Blank) - None<br>IH - Integral Half Louver (Moderate Spill Light Cutoff) <sup>2</sup><br>IL - Integral Louver (Sharp Spill Light Cutoff) <sup>2</sup> |

### Controls (Choose One)

(Blank) - None

#### Wireless Controls System

ALSC - AirLink Synapse Control System<sup>13</sup>

ALSCS02 - AirLink Synapse Control System with 12-20' Motion Sensor<sup>13</sup>

ALSCS04 - AirLink Synapse Control System with 20-40' Motion Sensor<sup>13</sup>

ALBCS1 - AirLink Blue Wireless Motion & Photo Sensor Controller (8-24' mounting height)<sup>5</sup>

ALBCS2 - AirLink Blue Wireless Motion & Photo Sensor Controller (25-40' mounting height)<sup>5</sup>

#### Stand-Alone Controls

EXT - 0-10v Dimming leads extended to housing exterior

CR7P - 7 Pin Control Receptacle ANSI C136.41<sup>6</sup>

IMSBT1L - Integral Bluetooth™ Motion and Photocell Sensor (8-24' MH)<sup>5</sup>

IMSBT12 - Integral Bluetooth™ Motion and Photocell Sensor (25-40' MH)<sup>5</sup>

#### Button Type Photocells

PC1120 - 120V

PC1208-277 - 208 -277V

PC1347 - 347V



**Need more information?**

Click here for our glossary

**Have additional questions?**

Call us at (800) 436-7800



## ACCESSORY ORDERING INFORMATION<sup>7</sup>

| CONTROLS ACCESSORIES   |                |
|--|----------------|
| Description  | Order Number   |
| PC120 Photocell for use with CR7P option (120V) <sup>8</sup>                 | <b>122514</b>  |
| PC208-277 Photocell for use with CR7P option (208V, 240V, 277V) <sup>8</sup> | <b>122515</b>  |
| Twist Lock Photocell (347V) for use with CR7P <sup>8</sup>                   | <b>122516</b>  |
| Twist Lock Photocell (480V) for use with CR7P <sup>8</sup>                   | <b>1225180</b> |
| AirLink 5 Pin Twist Lock Controller (120-277V Only) <sup>8</sup>             | <b>661409</b>  |
| AirLink 7 Pin Twist Lock Controller (120-277V Only) <sup>8</sup>             | <b>661410</b>  |
| AirLink 7 Pin Twist Lock Controller (347-480V)                               | <b>679948</b>  |
| Shorting Cap for use with CR7P   | <b>149328</b>  |

| FUSING OPTIONS <sup>11</sup> |  |
|------------------------------|--|
| Single Fusing (120V)         |  |
| Single Fusing (277V)         |  |
| Double Fusing (208, 240V)    |  |
| Double Fusing (480V)         |  |
| Double Fusing (347V)         |  |

[See Fusing Accessory Guide](#)

| SHIELDING OPTIONS |  |
|-------------------|--|
| Mirada Small      |  |
| Mirada Medium     |  |
| Mirada Large      |  |
| Zone Medium       |  |
| Zone Large        |  |
| Slice Medium      |  |

[See Shielding Guide](#)

1. Custom lumen and wattage packages available, consult factory. Values are within industry standard tolerances but not DLC listed.
2. Not available with 5W distribution
3. Consult Factory for availability.
4. Not available in HV.
5. Motion sensors are field configurable via an app that can be downloaded from your smartphone's native app store. See controls section for more details.
6. Control device or shorting cap must be ordered separately. See Accessory Ordering Information.
7. Accessories are shipped separately and field installed.
8. Factory installed CR7P option required. See Options.
9. "CLR" denotes finish. See Finish options.
10. Only available with ALSC/ALSCH control options.
11. Fusing must be located in hand hole of pole. See [Fusing Accessory Guide](#) for compatibility.
12. Only available in 9L, 12L, 18L and 24L Lumen Packages. Consult factory for lead time and availability.
13. Not available with 55L Lumen Package.

# Mirada Medium Outdoor LED Area Light

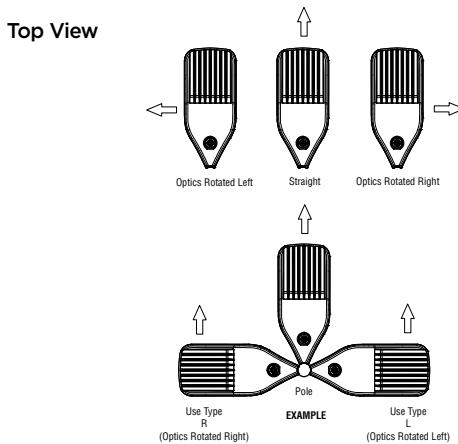
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Type: \_\_\_\_\_

## ACCESSORIES

| MOUNTING ACCESSORIES  |  |   | SHIELDING, POLES & MISC. ACCESSORIES |  |   |
|-----------------------|--|---|--------------------------------------|--|---|
| Side Arm              | <b>Universal Mounting Bracket</b><br>Mounts to ≥ 3" square or round (tapered/straight) poles with (2) mounting hole spaces between 3.5" to 5"<br><br>Part Number: BKA UMB CLR      |    | Shielding                            | <b>Integral Louver</b><br>Field Install Integral Louver provides maximum backlight control by shielding each individual row of LEDs<br><br>Part Number: 690981   |    |
|                       | <b>Quick Mount Plate</b><br>True one person installation to existing/new construction poles with hole spaces between 2.4 to 4.6"<br><br>Part Number: BKS PQM B3B5 XX CLR           |    |                                      | <b>Integral Half Louver</b><br>Field Install Integral Half Louver provides great backlight control without impacting front side distribution.<br><br>Part Number: 743415   |    |
|                       | <b>15° Tilt Quick Mount Plate</b><br>True one person installation to existing/new construction poles with hole spaces between 2.4 to 4.6"<br><br>Part Number: BKS PQ15 B3B5 XX CLR |    |                                      | <b>External Shield</b><br>External shield blocks view of light source from any side of luminaire, additional shielding configurations available<br><br>Part Number: 783607BLK (3") / 776538BLK (6")  |    |
| Tenon / Slipfitter    | <b>Adjustable Slipfitter</b><br>Mounts onto a 2" (51mm) IP, 2.375" (60mm) O.D. tenon and provides 180° of tilt (max 45° above horizontal)<br><br>Part Number: BKA ASF CLR          |    | Poles                                | <b>Square Poles</b><br>14 - 39' steel and aluminum poles in 4", 5" and 6" sizes for retrofit and new construction<br><br>Part Number: 4SQ/5SQ/6SQ  |    |
|                       | <b>Square Tenon Top</b><br>Mounts onto a 2" (51mm) IP, 2.375" (60mm) O.D. tenon and allows for mounting up to 4 luminaires<br><br>Part Number: BKA XNM *                           |    |                                      | <b>Round Poles</b><br>10 - 30' steel and aluminum poles in 4" and 5" sizes for retrofit and new construction<br><br>Part Number: 4RP/5RP   |    |
|                       | <b>Square Internal Slipfitter</b><br>Mounts inside 4" or 5" square pole and allows for mounting up to 4 luminaires<br><br>Part Number: BKA X_ISF * CLR                             |  |                                      | <b>Tapered Poles</b><br>20' - 39' steel and aluminum poles for retrofit and new construction<br><br>Part Number: RTP   |  |
| Wall Mount/ Wood Pole | <b>Wall Mount Bracket</b><br>Mounts onto vertical wall surface (hardware/anchors not included)<br><br>Part Number: BKS XBO WM CLR  |  | Misc.                                | <b>Bird Spikes</b><br>10' Linear Bird Spike Kit, 4' recommended per luminaire, includes silicone adhesive and application tool<br><br>Spike Part Number: 751631<br>Adhesive Part Number: 751632<br>Caulk Gun Part Number: 751636   |  |
|                       | <b>Wood Pole Bracket</b><br>Mounts onto wooden poles (6" minimum OD, hardware/anchors not included)<br><br>Part Number: BKS XBO WP CLR   |  |                                      | Replace CLR with paint finish description<br>Replace X with: 3<br>Replace XX with SQ for square pole or RD for round pole (≥3" OD)<br>Replace * with S (Single), D180 (Double @180°), D90 (Double @90°), T90 (Triple), Q90 (Quad)<br>Replace _ with 4 (4" square pole) or 5 (5" square pole) |   |

## OPTICS ROTATION



## ACCESSORIES/OPTIONS

### Integral Louver (IL) and House-Side Shield (IH)

Integral Louver (IL) and half louver (IH) accessory shields available for improved backlight control without sacrificing street side performance. LSI's Integral Louver (IL) and Integral House-Side Shield (IH) options deliver backlight control that significantly reduces spill light behind the poles for applications with pole locations close to adjacent properties. The design maximizes forward reflected light while reducing glare, maintaining the optical distribution selected, and most importantly eliminating light trespass. Both options rotate

Luminaire Shown with Integral Louver (IL)



Luminaire Shown with IMSBTL Option



### 7 Pin Photoelectric Control

7-pin ANSI C136.41-2013 control receptacle option available for twist lock photocontrols or wireless control modules. Control accessories sold separately. Dimming leads from the receptacle will be connected to the driver dimming leads (Consult factory for alternate wiring).

Luminaire Shown with CR7P



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# Mirada Medium Outdoor LED Area Light

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## PERFORMANCE

[Back to Quick Links](#)

| DELIVERED LUMENS* |              |     |                  |          |            |                  |          |            |                  |          |            |
|-------------------|--------------|-----|------------------|----------|------------|------------------|----------|------------|------------------|----------|------------|
| Lumen Package     | Distribution | CRI | 3000K CCT        |          |            | 4000K CCT        |          |            | 5000K CCT        |          |            |
|                   |              |     | Delivered Lumens | Efficacy | BUG Rating | Delivered Lumens | Efficacy | BUG Rating | Delivered Lumens | Efficacy | BUG Rating |
| 9L                | 2            | 70  | 9853             | 159      | B2-U0-G2   | 9853             | 159      | B2-U0-G2   | 9853             | 159      | B2-U0-G2   |
|                   | 3            |     | 9926             | 160      | B2-U0-G2   | 9926             | 160      | B2-U0-G2   | 9926             | 160      | B2-U0-G2   |
|                   | 4            |     | 9178             | 148      | B2-U0-G3   | 9713             | 157      | B2-U0-G3   | 9498             | 153      | B2-U0-G3   |
|                   | 5W           |     | 9504             | 153      | B3-U0-G2   | 9504             | 153      | B3-U0-G2   | 9504             | 153      | B3-U0-G2   |
|                   | FT           |     | 9856             | 159      | B2-U0-G3   | 9856             | 159      | B2-U0-G3   | 9856             | 159      | B2-U0-G3   |
|                   | FTA          |     | 9900             | 160      | B2-U0-G2   | 9900             | 160      | B2-U0-G2   | 9900             | 160      | B2-U0-G2   |
|                   | AM           |     | 10019            | 162      | B2-U0-G1   | 10019            | 162      | B2-U0-G1   | 10019            | 162      | B2-U0-G1   |
|                   | LC/RC        |     | 9008             | 145      | B2-U0-G3   | 9533             | 154      | B2-U0-G3   | 9321             | 150      | B2-U0-G3   |
| 12L               | 2            | 70  | 13135            | 155      | B3-U0-G2   | 13135            | 155      | B3-U0-G2   | 13135            | 155      | B3-U0-G2   |
|                   | 3            |     | 13232            | 156      | B2-U0-G2   | 13232            | 156      | B2-U0-G2   | 13232            | 156      | B2-U0-G2   |
|                   | 4            |     | 12223            | 144      | B2-U0-G3   | 12935            | 152      | B2-U0-G4   | 12648            | 149      | B2-U0-G4   |
|                   | 5W           |     | 12669            | 149      | B4-U0-G2   | 12669            | 149      | B4-U0-G2   | 12669            | 149      | B4-U0-G2   |
|                   | FT           |     | 13138            | 155      | B2-U0-G3   | 13138            | 155      | B2-U0-G3   | 13138            | 155      | B2-U0-G3   |
|                   | FTA          |     | 13196            | 155      | B2-U0-G2   | 13196            | 155      | B2-U0-G2   | 13196            | 155      | B2-U0-G2   |
|                   | AM           |     | 13355            | 157      | B2-U0-G2   | 13355            | 157      | B2-U0-G2   | 13355            | 157      | B2-U0-G2   |
|                   | LC/RC        |     | 11996            | 141      | B2-U0-G3   | 12695            | 149      | B2-U0-G3   | 12414            | 146      | B2-U0-G3   |
| 18L               | 2            | 70  | 19318            | 143      | B3-U0-G3   | 19318            | 143      | B3-U0-G3   | 19318            | 143      | B3-U0-G3   |
|                   | 3            |     | 19461            | 144      | B3-U0-G3   | 19461            | 144      | B3-U0-G3   | 19461            | 144      | B3-U0-G3   |
|                   | 4            |     | 18013            | 133      | B2-U0-G4   | 19063            | 141      | B3-U0-G5   | 18640            | 138      | B3-U0-G5   |
|                   | 5W           |     | 18633            | 138      | B4-U0-G2   | 18633            | 138      | B4-U0-G2   | 18633            | 138      | B4-U0-G2   |
|                   | FT           |     | 19324            | 143      | B3-U0-G3   | 19324            | 143      | B3-U0-G3   | 19324            | 143      | B3-U0-G3   |
|                   | FTA          |     | 19408            | 144      | B3-U0-G3   | 19408            | 144      | B3-U0-G3   | 19408            | 144      | B3-U0-G3   |
|                   | AM           |     | 19641            | 145      | B3-U0-G2   | 19641            | 145      | B3-U0-G2   | 19641            | 145      | B3-U0-G2   |
|                   | LC/RC        |     | 17679            | 131      | B2-U0-G3   | 18710            | 139      | B2-U0-G3   | 18295            | 136      | B2-U0-G3   |
| 24L               | 2            | 70  | 24142            | 147      | B4-U0-G3   | 25957            | 147      | B4-U0-G3   | 25957            | 147      | B4-U0-G3   |
|                   | 3            |     | 25001            | 149      | B3-U0-G3   | 26149            | 149      | B3-U0-G3   | 26149            | 149      | B3-U0-G3   |
|                   | 4            |     | 24396            | 152      | B3-U0-G5   | 25600            | 160      | B3-U0-G5   | 25457            | 159      | B3-U0-G5   |
|                   | 5W           |     | 24327            | 142      | B5-U0-G3   | 25037            | 142      | B5-U0-G3   | 25037            | 142      | B5-U0-G3   |
|                   | FT           |     | 24994            | 148      | B3-U0-G3   | 25964            | 148      | B3-U0-G3   | 25964            | 148      | B3-U0-G3   |
|                   | FTA          |     | 24171            | 148      | B3-U0-G3   | 26077            | 148      | B4-U0-G3   | 26077            | 148      | B4-U0-G3   |
|                   | AM           |     | 24939            | 150      | B3-U0-G2   | 26393            | 150      | B3-U0-G2   | 26393            | 150      | B3-U0-G2   |
|                   | LC/RC        |     | 25884            | 162      | B3-U0-G4   | 25884            | 162      | B3-U0-G4   | 25310            | 158      | B3-U0-G4   |
| 30L               | 2            | 70  | 30171            | 140      | B4-U0-G3   | 32417            | 140      | B4-U0-G3   | 32417            | 140      | B4-U0-G3   |
|                   | 3            |     | 31243            | 141      | B3-U0-G4   | 32656            | 141      | B3-U0-G4   | 32656            | 141      | B3-U0-G4   |
|                   | 4            |     | 30651            | 144      | B3-U0-G5   | 32141            | 151      | B3-U0-G5   | 31961            | 150      | B3-U0-G5   |
|                   | 5W           |     | 30402            | 135      | B5-U0-G3   | 31267            | 135      | B5-U0-G3   | 31267            | 135      | B5-U0-G3   |
|                   | FT           |     | 31233            | 140      | B4-U0-G4   | 32424            | 140      | B4-U0-G4   | 32424            | 140      | B4-U0-G4   |
|                   | FTA          |     | 30207            | 140      | B4-U0-G4   | 32566            | 140      | B4-U0-G4   | 32566            | 140      | B4-U0-G4   |
|                   | AM           |     | 3116             | 142      | B4-U0-G3   | 32960            | 142      | B4-U0-G3   | 32960            | 142      | B4-U0-G3   |
|                   | LC/RC        |     | 32498            | 153      | B3-U0-G5   | 32498            | 153      | B3-U0-G5   | 31777            | 149      | B3-U0-G5   |

\*LEDs are frequently updated therefore values are nominal.



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# Mirada Medium Outdoor LED Area Light

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## PERFORMANCE (CONT.)

| DELIVERED LUMENS* |              |     |                  |          |            |                  |          |            |                  |          |            |         |
|-------------------|--------------|-----|------------------|----------|------------|------------------|----------|------------|------------------|----------|------------|---------|
| Lumen Package     | Distribution | CRI | 3000K CCT        |          |            | 4000K CCT        |          |            | 5000K CCT        |          |            | Wattage |
|                   |              |     | Delivered Lumens | Efficacy | BUG Rating | Delivered Lumens | Efficacy | BUG Rating | Delivered Lumens | Efficacy | BUG Rating |         |
| 36L               | 2            | 70  | 35357            | 133      | B4-U0-G3   | 38275            | 133      | B4-U0-G3   | 38275            | 133      | B4-U0-G3   | 288     |
|                   | 3            |     | 36614            | 134      | B4-U0-G4   | 38557            | 134      | B4-U0-G4   | 38557            | 134      | B4-U0-G4   |         |
|                   | 4            |     | 35402            | 139      | B3-U0-G5   | 37148            | 146      | B4-U0-G5   | 36940            | 145      | B4-U0-G5   |         |
|                   | 5W           |     | 35627            | 128      | B5-U0-G4   | 36917            | 128      | B5-U0-G4   | 36917            | 128      | B5-U0-G4   |         |
|                   | FT           |     | 36602            | 133      | B4-U0-G4   | 38283            | 133      | B4-U0-G4   | 38283            | 133      | B4-U0-G4   |         |
|                   | FTA          |     | 35399            | 134      | B4-U0-G4   | 38450            | 134      | B4-U0-G4   | 38450            | 134      | B4-U0-G4   |         |
|                   | AM           |     | 36524            | 135      | B4-U0-G3   | 38916            | 135      | B4-U0-G3   | 38916            | 135      | B4-U0-G3   |         |
|                   | LC/RC        |     | 37561            | 147      | B3-U0-G5   | 37561            | 147      | B3-U0-G5   | 36727            | 144      | B3-U0-G5   |         |
|                   | 2            |     | 41035            | 131      | B5-U0-G4   | 42602            | 136      | B5-U0-G4   | 42542            | 135      | B5-U0-G4   | 314     |
| 42L               | 3            | 70  | 42493            | 135      | B4-U0-G5   | 44115            | 140      | B4-U0-G5   | 44053            | 140      | B4-U0-G5   |         |
|                   | 4            |     | 41453            | 132      | B4-U0-G5   | 43497            | 138      | B4-U0-G5   | 43254            | 138      | B4-U0-G5   |         |
|                   | 5W           |     | 41349            | 132      | B5-U0-G4   | 42927            | 134      | B5-U0-G4   | 42866            | 137      | B5-U0-G4   |         |
|                   | FT           |     | 42481            | 135      | B4-U0-G4   | 44103            | 140      | B4-U0-G4   | 44040            | 140      | B4-U0-G4   |         |
|                   | FTA          |     | 41083            | 131      | B4-U0-G4   | 42652            | 136      | B5-U0-G4   | 42591            | 136      | B5-U0-G4   |         |
|                   | AM           |     | 42389            | 135      | B4-U0-G3   | 44007            | 140      | B4-U0-G3   | 43944            | 140      | B4-U0-G3   |         |
|                   | LC/RC        |     | 43980            | 140      | B3-U0-G5   | 43980            | 140      | B3-U0-G5   | 43004            | 137      | B3-U0-G5   |         |
|                   | 2            | 70  | 45133            | 123      | B5-U0-G4   | 46856            | 128      | B5-U0-G4   | 46789            | 128      | B5-U0-G4   | 401     |
|                   | 3            |     | 46737            | 128      | B4-U0-G5   | 48521            | 133      | B4-U0-G5   | 48452            | 132      | B4-U0-G5   |         |
|                   | 4            |     | 46006            | 126      | B4-U0-G5   | 48275            | 132      | B4-U0-G5   | 48005            | 131      | B4-U0-G5   |         |
|                   | 5W           |     | 45478            | 124      | B5-U0-G4   | 47214            | 129      | B5-U0-G4   | 47147            | 129      | B5-U0-G4   |         |
|                   | FT           |     | 46723            | 128      | B4-U0-G5   | 48507            | 133      | B4-U0-G5   | 48438            | 132      | B4-U0-G5   |         |
|                   | FTA          |     | 45187            | 123      | B5-U0-G4   | 46912            | 128      | B5-U0-G4   | 46845            | 128      | B5-U0-G4   |         |
|                   | AM           |     | 4662             | 127      | B4-U0-G3   | 48402            | 132      | B4-U0-G3   | 48333            | 132      | B4-U0-G3   |         |
|                   | LC/RC        |     | 48811            | 133      | B4-U0-G5   | 48811            | 133      | B4-U0-G5   | 47728            | 130      | B4-U0-G5   |         |
| 55L               | 2            | 70  | 50179            | 115      | B5-U0-G4   | 52095            | 119      | B5-U0-G4   | 52021            | 119      | B5-U0-G4   | 438     |
|                   | 3            |     | 51963            | 119      | B4-U0-G5   | 53947            | 123      | B4-U0-G5   | 53870            | 123      | B4-U0-G5   |         |
|                   | 4            |     | 51635            | 119      | B4-U0-G5   | 54181            | 125      | B4-U0-G5   | 53878            | 124      | B4-U0-G5   |         |
|                   | 5W           |     | 50563            | 115      | B5-U0-G4   | 52493            | 120      | B5-U0-G4   | 52418            | 120      | B5-U0-G4   |         |
|                   | FT           |     | 50539            | 115      | B4-U0-G5   | 52468            | 120      | B4-U0-G5   | 52394            | 120      | B4-U0-G5   |         |
|                   | FTA          |     | 50239            | 115      | B5-U0-G4   | 52157            | 119      | B5-U0-G4   | 52082            | 119      | B5-U0-G4   |         |
|                   | AM           |     | 52223            | 119      | B4-U0-G3   | 54216            | 124      | B4-U0-G3   | 54139            | 124      | B4-U0-G3   |         |
|                   | LC/RC        |     | 54113            | 124      | B4-U0-G5   | 54113            | 124      | B4-U0-G5   | 52912            | 121      | B4-U0-G5   |         |

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# Mirada Medium Outdoor LED Area Light

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## PERFORMANCE (CONT.)

| ELECTRICAL DATA (AMPS)* |      |      |      |      |      |      |
|-------------------------|------|------|------|------|------|------|
| Lumens                  | 120V | 208V | 240V | 277V | 347V | 480V |
| 9L                      | 0.52 | 0.30 | 0.26 | 0.22 | 0.18 | 0.13 |
| 12L                     | 0.71 | 0.41 | 0.35 | 0.31 | 0.24 | 0.18 |
| 18L                     | 1.13 | 0.65 | 0.56 | 0.49 | 0.39 | 0.28 |
| 24L                     | 1.33 | 0.77 | 0.67 | 0.58 | 0.46 | 0.33 |
| 30L                     | 1.78 | 1.02 | 0.89 | 0.77 | 0.61 | 0.44 |
| 36L                     | 2.12 | 1.22 | 1.06 | 0.92 | 0.73 | 0.53 |
| 42L                     | 2.62 | 1.51 | 1.31 | 1.13 | 0.90 | 0.65 |
| 48L                     | 3.05 | 1.76 | 1.53 | 1.32 | 1.05 | 0.76 |
| 55L                     | 3.65 | 2.11 | 1.83 | 1.58 | 1.26 | 0.91 |

| RECOMMENDED LUMEN MAINTENANCE <sup>1</sup> (0-25°C) |                      |                  |                   |                   |                    |
|---|----------------------|------------------|-------------------|-------------------|--------------------|
| Ambient   | Initial <sup>2</sup> | 25h <sup>2</sup> | 50hr <sup>2</sup> | 75hr <sup>2</sup> | 100hr <sup>2</sup> |
| 9L - 18L  | 100%                 | 97%              | 93%               | 90%               | 86%                |
| 24L - 48L   | 100%                 | 95%              | 89%               | 84%               | 79%                |
| 55L   | 100%                 | 91%              | 82%               | 74%               | 67%                |

| RECOMMENDED LUMEN MAINTENANCE <sup>1</sup> (40°C) |                      |                  |                   |                   |                    |
|---|----------------------|------------------|-------------------|-------------------|--------------------|
| Ambient   | Initial <sup>2</sup> | 25h <sup>2</sup> | 50hr <sup>2</sup> | 75hr <sup>2</sup> | 100hr <sup>2</sup> |
| 9L - 18L  | 100%                 | 97%              | 92%               | 88%               | 84%                |
| 24L - 48L   | 100%                 | 94%              | 87%               | 80%               | 74%                |

| RECOMMENDED LUMEN MAINTENANCE <sup>1</sup> (50°C) |                      |                  |                   |                   |                    |
|---|----------------------|------------------|-------------------|-------------------|--------------------|
| Ambient   | Initial <sup>2</sup> | 25h <sup>2</sup> | 50hr <sup>2</sup> | 75hr <sup>2</sup> | 100hr <sup>2</sup> |
| 9L - 18L C  | 100%                 | 96%              | 91%               | 87%               | 85%                |

\*Electrical data at 25°C (77°F). Actual wattage may differ by +/-10%

1. Lumen maintenance values at 25C are calculated per TM-21 based on LM-80 data and in-situ testing.
2. In accordance with IESNA TM-21-11, Projected Values represent interpolated value based on time durations that are within six times the IESNA LM-80-08 total test duration for the device under testing.
3. In accordance with IESNA TM-21-11, Calculated Values represent time durations that exceed six times the IESNA LM-80-08 total test duration for the device under testing.

| DELIVERED LUMENS* |              |                                       |          |            |         |
|-------------------|--------------|---------------------------------------|----------|------------|---------|
| Lumen Package     | Distribution | Phosphor Converted Amber (Peak 610mm) |          |            | Wattage |
|                   |              | Delivered Lumens                      | Efficacy | BUG Rating |         |
| 9L                | 2            | 5848                                  | 80       | B2-U0-G2   | 74      |
|                   | 3            | 6018                                  | 82       | B1-U0-G2   |         |
|                   | 5W           | 5471                                  | 74       | B3-U0-G1   |         |
|                   | FT           | 5801                                  | 79       | B1-U0-G2   |         |
|                   | FTA          | 5924                                  | 81       | B1-U0-G1   |         |
|                   | AM           | 5995                                  | 81       | B1-U0-G1   |         |
| 12L               | 2            | 7530                                  | 74       | B2-U0-G2   | 102     |
|                   | 3            | 7749                                  | 76       | B1-U0-G2   |         |
|                   | 5W           | 7045                                  | 69       | B3-U0-G2   |         |
|                   | FT           | 7470                                  | 73       | B2-U0-G2   |         |
|                   | FTA          | 7628                                  | 75       | B2-U0-G2   |         |
|                   | AM           | 7720                                  | 76       | B1-U0-G1   |         |
| 18L               | 2            | 9311                                  | 69       | B2-U0-G2   | 135     |
|                   | 3            | 9582                                  | 71       | B2-U0-G2   |         |
|                   | 5W           | 8712                                  | 65       | B3-U0-G2   |         |
|                   | FT           | 9237                                  | 68       | B2-U0-G2   |         |
|                   | FTA          | 9433                                  | 70       | B2-U0-G2   |         |
|                   | AM           | 9546                                  | 71       | B2-U0-G1   |         |
| 24L               | 2            | 10955                                 | 63       | B2-U0-G2   | 175     |
|                   | 3            | 11273                                 | 64       | B2-U0-G2   |         |
|                   | 5W           | 10249                                 | 59       | B3-U0-G2   |         |
|                   | FT           | 10867                                 | 62       | B2-U0-G2   |         |
|                   | FTA          | 11097                                 | 63       | B2-U0-G2   |         |
|                   | AM           | 11230                                 | 64       | B2-U0-G1   |         |

| ELECTRICAL DATA - PHOSPHOR CONVERTED AMBER (AMPS)* |      |      |      |      |      |
|--|------|------|------|------|------|
| Lumens   | 120V | 208V | 240V | 277V | 347V |
| 9L   | 0.62 | 0.36 | 0.31 | 0.27 | 0.21 |
| 12L  | 0.85 | 0.50 | 0.43 | 0.38 | 0.30 |
| 18L  | 1.13 | 0.65 | 0.56 | 0.49 | 0.39 |
| 24L  | 1.47 | 0.85 | 0.73 | 0.64 | 0.51 |

\*LEDs are frequently updated therefore values are nominal.



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SPEC.1020.B.0422

# Mirada Medium Outdoor LED Area Light

Have questions? Call us at (800) 436-7800

Type: \_\_\_\_\_

## PHOTOMETRICS

[Back to Quick Links](#)

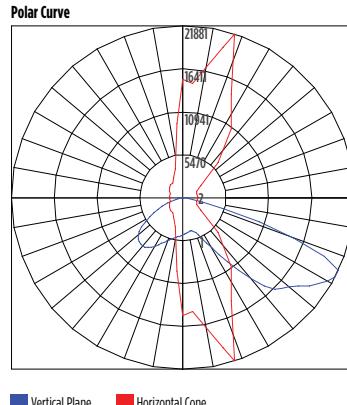
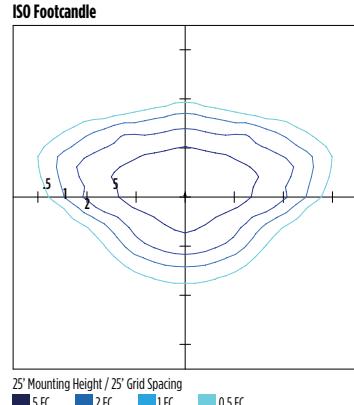
Luminaire photometry has been conducted by a NVLAP accredited testing laboratory in accordance with IESNA LM-79-08. As specified by IESNA LM-79-08 the entire luminaire is tested as the source resulting in a luminaire efficiency of 100%.

See the individual product page on <https://www.lsicorp.com/> for detailed photometric data.

### MRM-LED-30L-SIL-2-40-70CRI

| Luminaire Data      |                     |
|---------------------|---------------------|
| Type 2 Distribution |                     |
| Description         | 4000 Kelvin, 70 CRI |
| Delivered Lumens    | 32,416              |
| Watts               | 232                 |
| Efficacy            | 140                 |
| IES Type            | Type II - Short     |
| BUG Rating          | B4-U0-G3            |

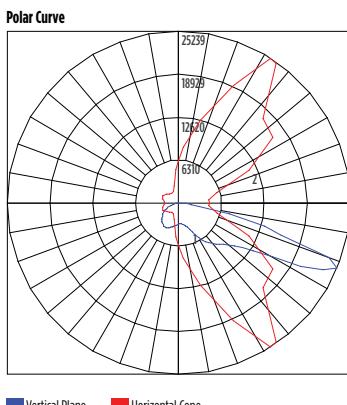
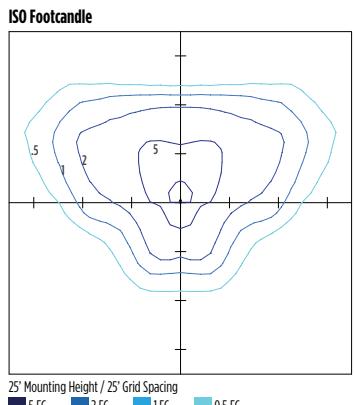
| Zonal Lumen Summary |        |             |
|---------------------|--------|-------------|
| Zone                | Lumens | % Luminaire |
| Low (0-30°)         | 4796   | 15%         |
| Medium (30-60°)     | 19811  | 61%         |
| High (60-80°)       | 7474   | 23%         |
| Very High (80-90°)  | 335    | 1%          |
| Uplight (90-180°)   | 0      | 0%          |
| Total Flux          | 32416  | 100%        |



### MRM-LED-30L-SIL-3-40-70CRI

| Luminaire Data      |                     |
|---------------------|---------------------|
| Type 3 Distribution |                     |
| Description         | 4000 Kelvin, 70 CRI |
| Delivered Lumens    | 32,656              |
| Watts               | 232                 |
| Efficacy            | 141                 |
| IES Type            | Type III - Short    |
| BUG Rating          | B3-U0-G4            |

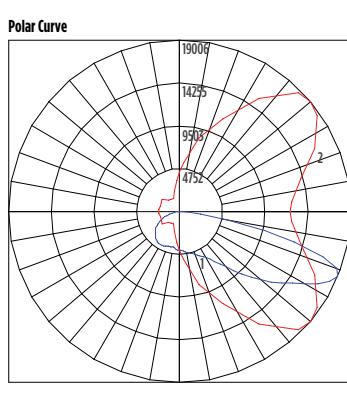
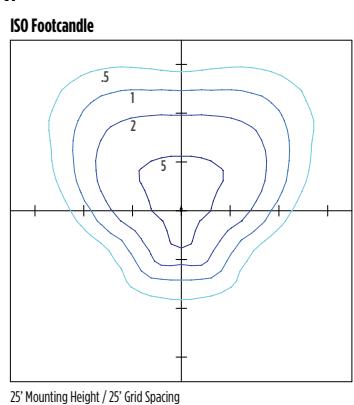
| Zonal Lumen Summary |        |             |
|---------------------|--------|-------------|
| Zone                | Lumens | % Luminaire |
| Low (0-30°)         | 3385   | 10%         |
| Medium (30-60°)     | 16250  | 50%         |
| High (60-80°)       | 12430  | 38%         |
| Very High (80-90°)  | 591    | 2%          |
| Uplight (90-180°)   | 0      | 0%          |
| Total Flux          | 32656  | 100%        |



### MRM-LED-30L-SIL-FT-40-70CRI

| Luminaire Data       |                     |
|----------------------|---------------------|
| Type FT Distribution |                     |
| Description          | 4000 Kelvin, 70 CRI |
| Delivered Lumens     | 32,424              |
| Watts                | 232                 |
| Efficacy             | 140                 |
| IES Type             | Type IV - Short     |
| BUG Rating           | B3-U0-G4            |

| Zonal Lumen Summary |        |             |
|---------------------|--------|-------------|
| Zone                | Lumens | % Luminaire |
| Low (0-30°)         | 3952   | 12%         |
| Medium (30-60°)     | 15505  | 48%         |
| High (60-80°)       | 12279  | 38%         |
| Very High (80-90°)  | 688    | 2%          |
| Uplight (90-180°)   | 0      | 0%          |
| Total Flux          | 32424  | 100%        |



# Mirada Medium Outdoor LED Area Light

Type: \_\_\_\_\_

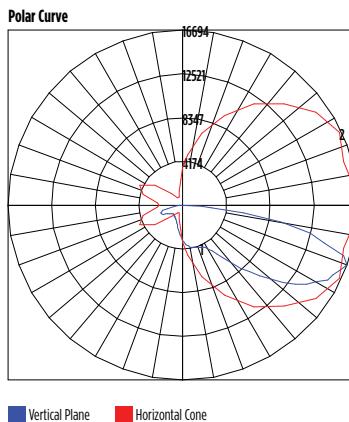
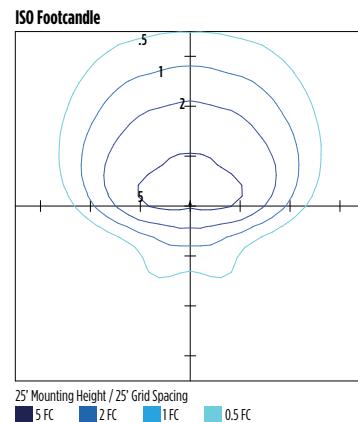
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## PHOTOMETRICS (CONT)

### MRM-LED-30L-SIL-4-40-70CRI

| Luminaire Data      |                      |
|---------------------|----------------------|
| Type 4 Distribution |                      |
| Description         | 4000 Kelvin, 70 CRI  |
| Delivered Lumens    | 32,141               |
| Watts               | 213                  |
| Efficacy            | 151                  |
| IES Type            | Type IV - Very Short |
| BUG Rating          | B3-U0-G5             |

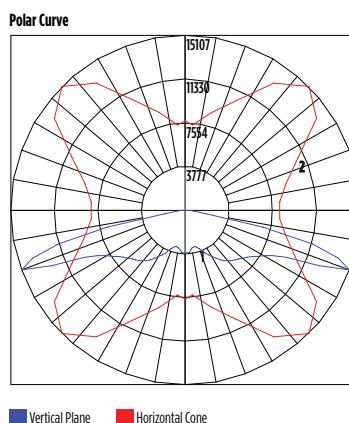
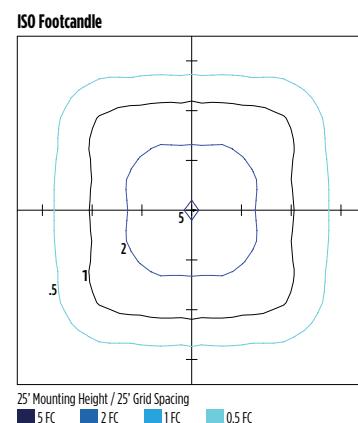
| Zonal Lumen Summary |        |             |
|---------------------|--------|-------------|
| Zone                | Lumens | % Luminaire |
| Low (0-30°)         | 3119   | 10%         |
| Medium (30-60°)     | 13569  | 42%         |
| High (60-80°)       | 13649  | 42%         |
| Very High (80-90°)  | 1804   | 6%          |
| Uplight (90-180°)   | 0      | 0%          |
| Total Flux          | 32141  | 100%        |



### MRM-LED-30L-SIL-5W-40-70CRI

| Luminaire Data       |                     |
|----------------------|---------------------|
| Type 5W Distribution |                     |
| Description          | 4000 Kelvin, 70 CRI |
| Delivered Lumens     | 31,267              |
| Watts                | 232                 |
| Efficacy             | 135                 |
| IES Type             | Type VS - Short     |
| BUG Rating           | B5-U0-G3            |

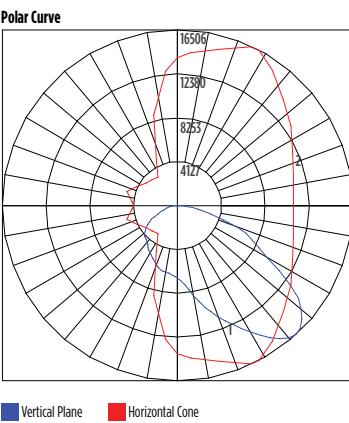
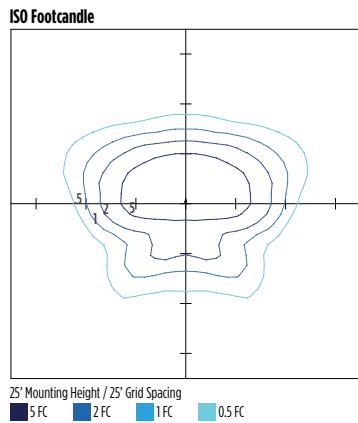
| Zonal Lumen Summary |        |             |
|---------------------|--------|-------------|
| Zone                | Lumens | % Luminaire |
| Low (0-30°)         | 3138   | 10%         |
| Medium (30-60°)     | 13193  | 42%         |
| High (60-80°)       | 14641  | 47%         |
| Very High (80-90°)  | 296    | 1%          |
| Uplight (90-180°)   | 0      | 0%          |
| Total Flux          | 31267  | 100%        |



### MRM-LED-30L-SIL-FTA-40-70CRI

| Luminaire Data        |                     |
|-----------------------|---------------------|
| Type FTA Distribution |                     |
| Description           | 4000 Kelvin, 70 CRI |
| Delivered Lumens      | 32,566              |
| Watts                 | 232                 |
| Efficacy              | 140                 |
| IES Type              | Type VS - Short     |
| BUG Rating            | B4-U0-G3            |

| Zonal Lumen Summary |        |             |
|---------------------|--------|-------------|
| Zone                | Lumens | % Luminaire |
| Low (0-30°)         | 6986   | 21%         |
| Medium (30-60°)     | 19172  | 59%         |
| High (60-80°)       | 5875   | 18%         |
| Very High (80-90°)  | 534    | 2%          |
| Uplight (90-180°)   | 0      | 0%          |
| Total Flux          | 32566  | 100%        |



# Mirada Medium Outdoor LED Area Light

Type: \_\_\_\_\_

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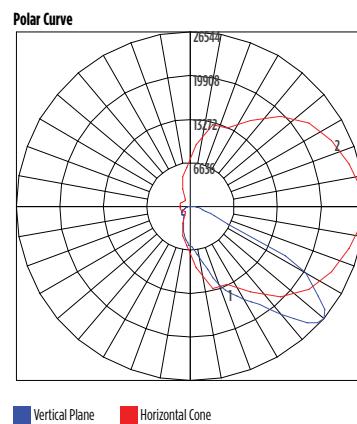
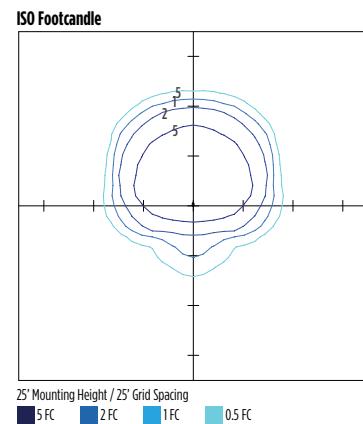
## PHOTOMETRICS (CONT)

[Back to Quick Links](#)

### MRM-LED-30L-SIL-AM-40-70CRI

| Luminaire Data       |                       |
|----------------------|-----------------------|
| Type AM Distribution |                       |
| Description          | 4000 Kelvin, 70 CRI   |
| Delivered Lumens     | 32,960                |
| Watts                | 232                   |
| Efficacy             | 142                   |
| IES Type             | Type III - Very Short |
| BUG Rating           | B3-U0-G3              |

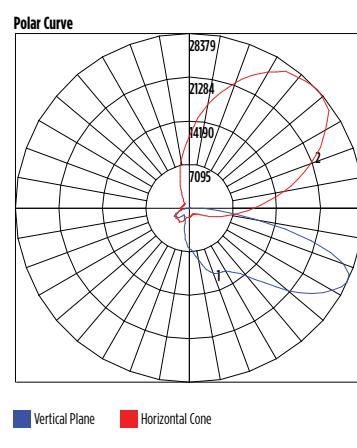
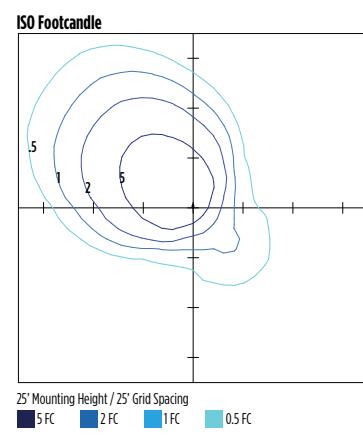
| Zonal Lumen Summary |        |             |
|---------------------|--------|-------------|
| Zone                | Lumens | % Luminaire |
| Low (0-30°)         | 6363   | 19%         |
| Medium (30-60°)     | 22026  | 67%         |
| High (60-80°)       | 4192   | 13%         |
| Very High (80-90°)  | 379    | 1%          |
| Uplight (90-180°)   | 0      | 0%          |
| Total Flux          | 32960  | 100%        |



### MRM-LED-30L-SIL-LC-40-70CRI

| Luminaire Data           |                     |
|--------------------------|---------------------|
| Left Corner Distribution |                     |
| Description              | 4000 Kelvin, 70 CRI |
| Delivered Lumens         | 32,498              |
| Watts                    | 213                 |
| Efficacy                 | 153                 |
| IES Type                 | N/A                 |
| BUG Rating               | B3-U0-G5            |

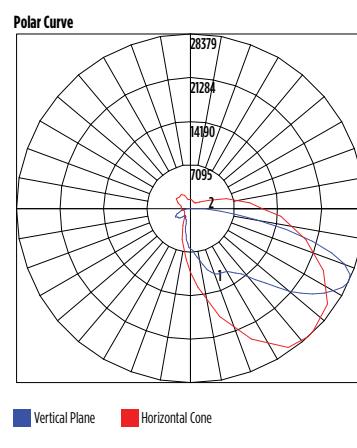
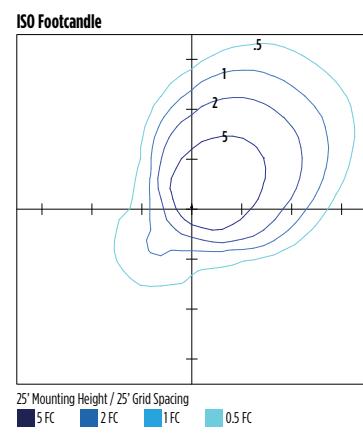
| Zonal Lumen Summary |        |             |
|---------------------|--------|-------------|
| Zone                | Lumens | % Luminaire |
| Low (0-30°)         | 5083   | 16%         |
| Medium (30-60°)     | 14808  | 46%         |
| High (60-80°)       | 11603  | 36%         |
| Very High (80-90°)  | 1005   | 3%          |
| Uplight (90-180°)   | 0      | 0%          |
| Total Flux          | 32498  | 100%        |



### MRM-LED-30L-SIL-RC-40-70CRI

| Luminaire Data            |                     |
|---------------------------|---------------------|
| Right Corner Distribution |                     |
| Description               | 4000 Kelvin, 70 CRI |
| Delivered Lumens          | 32,498              |
| Watts                     | 213                 |
| Efficacy                  | 153                 |
| IES Type                  | N/A                 |
| BUG Rating                | B3-U0-G5            |

| Zonal Lumen Summary |        |             |
|---------------------|--------|-------------|
| Zone                | Lumens | % Luminaire |
| Low (0-30°)         | 5083   | 16%         |
| Medium (30-60°)     | 14808  | 46%         |
| High (60-80°)       | 11603  | 36%         |
| Very High (80-90°)  | 1005   | 3%          |
| Uplight (90-180°)   | 0      | 0%          |
| Total Flux          | 32498  | 100%        |



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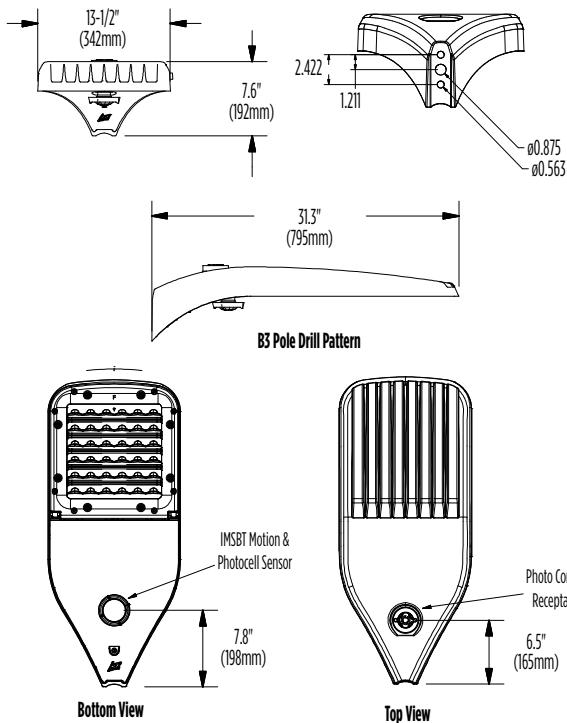
SPEC.1020.B.0422

# Mirada Medium Outdoor LED Area Light

Type: \_\_\_\_\_

 Have questions? Call us at (800) 436-7800

## PRODUCT DIMENSIONS



### Luminaire EPA Chart

| Tilt Degree   | 0°  | 15° | 30° | 45° |
|---|-----|-----|-----|-----|
|  <b>Single</b> | 0.5 | 1.0 | 1.5 | 1.9 |
|  <b>D180°</b>  | 1.0 | 1.5 | 1.5 | 1.9 |
|  <b>D90°</b>   | 0.8 | 1.8 | 1.9 | 2.3 |
|  <b>T90°</b>   | 1.0 | 4.0 | 2.5 | 2.8 |
|  <b>TN120°</b> | 1.0 | 2.9 | 3.3 | 3.9 |
|  <b>Q90°</b>   | 1.0 | 4.0 | 2.5 | 2.8 |



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# Mirada Medium Outdoor LED Area Light

Type: \_\_\_\_\_

 **Have questions?** Call us at (800) 436-7800

## CONTROLS

### Integral Bluetooth™ Motion and Photocell Sensor (IMSBTxL)

Slim low profile sensor provides multi-level control based on motion and/or daylight. Sensor controls 0-10 VDC LED drivers and is IP66 rated for cold and wet locations (-40°F to 167°F). Two unique PIR lenses are available and used based on fixture mounting height. All control parameters are adjustable via an iOS or Android App capable of storing and transmitting sensor profiles.

[Click here to learn more details about IMSBT](#)



LEVITON App



Apple



Android

### AirLink Blue (ALBCSx)

Wireless Bluetooth Mesh Outdoor Lighting Control System that provides energy savings, code compliance and enhanced safety/security for parking lots and parking garages. Three key components; Bluetooth wireless radio/sensor controller, Time Keeper and an iOS App. Capable of grouping multiple fixtures and sensors as well as scheduling time-based events by zone. Radio/Sensor Controller is factory integrated into Area/Site, Wall Mounted, Parking Garage and Canopy luminaires.

[Click here to learn more details about AirLink Blue](#)



AirLink Blue App



Apple

## Sensor Sequence of Operations

| Standard Programming | On Event | Off Event | On Light Level | Dim Light Level | Daylight Harvesting  | Delay To Off | Sensitivity |
|----------------------|----------|-----------|----------------|-----------------|----------------------|--------------|-------------|
| OMSBTxL/IMSBTxL      | Motion   | No Motion | 100%           | N/A             | On; Auto Calibration | 20 minutes   | High        |
| OMS                  | Motion   | No Motion | N/A            | N/A             | N/A                  | 30 seconds   | Auto        |

| Operation       | Description  |
|-----------------|--|
| On Event        | Trigger that activates lights to turn on; either automatic via motion detected or manually activated via push of button.   |
| Off Event       | Trigger that activates lights to turn off; either automatic via no motion detected or manually activated via push of button.   |
| On Light Level  | The light level that the fixtures will turn on to when ON EVENT occurs.  |
| Dim Light Level | The light level that the fixtures will dim down to when no motion is detected.   |
| Delay to Dim    | The amount of time after which no motion is detected that the fixtures will be triggered to dim down. This sequence is optional, and sensor can be programmed to only trigger the fixture to turn off by entering 100% in this field.  |
| Delay to Off    | The amount of time after which no motion is detected that the fixtures will be triggered to turn off. If delay to dim is part of the programmed functionality, this is the amount of time after which no motion is detected after the fixture have already dimmed down.  |
| Sensitivity     | The sensitivity can be set to high, medium, low, or auto where applicable. High will detect smaller, simple motions. Low will only detect larger more complex motions. Auto temperature calibration adjusts the PIR sensitivity as ambient temperature rises to increase detection of heat movement through the field of view. |



# Mirada Medium (MRM)

## Outdoor LED Area Light



IP66 IK08



| OVERVIEW             |                             |
|----------------------|-----------------------------|
| Lumen Package        | 7,000 - 55,000              |
| Wattage Range        | 48 - 438                    |
| Efficacy Range (LPW) | 115 - 162                   |
| Weight lbs(kg)       | 30 (13.6)                   |
| Control Options      | IMSBT, ALB, ALS, 7-Pin, PCI |

### QUICK LINKS

[Ordering Guide](#)[Performance](#)[Photometrics](#)[Dimensions](#)

## FEATURES & SPECIFICATIONS

### Construction

- Rugged die-cast aluminum housing contains factory prewired driver and optical unit. Cast aluminum wiring access door located underneath.
- Designed to mount to square or round poles.
- Fixtures are finished with LSI's DuraGrip® polyester powder coat finishing process. The DuraGrip finish withstands extreme weather changes without cracking or peeling. Other standard LSI finishes available. Consult factory.
- Shipping weight: 37 lbs in carton.

### Optical System

- State-of-the-Art one piece silicone optic sheet delivers industry leading optical control with an integrated gasket to provide IP66 rated sealed optical chamber in 1 component.
- Proprietary silicone refractor optics provide exceptional coverage and uniformity in IES Types 2, 3, 4, 5W, FT, FTA, AM, and LC/RC.
- Silicone optical material does not yellow or crack with age and provides a typical light transmittance of 93-95%.
- Zero uplight.
- Available in 5000K, 4000K, and 3000K color temperatures per ANSI C78.377. Also Available in Phosphor Converted Amber with Peak intensity at 610nm.
- Minimum CRI of 70.
- Integral louver (IL) and integral half louver (IH) options available for enhanced backlight control.

### Electrical

- High-performance programmable driver features over-voltage, under-voltage, short-circuit and over temperature protection. Custom lumen and wattage packages available.
- 0-10V dimming (10% - 100%) standard.
- Standard Universal Voltage (120-277 Vac) Input 50/60 Hz or optional High Voltage (347-480 Vac).
- L80 Calculated Life: >100k Hours (See Lumen Maintenance chart)
- Total harmonic distortion: <20%
- Operating temperature: -40°C to +50°C (-40°F to +122°F). 42L and 48L lumen packages rated to +40°C. 55L lumen package rate to +35°C.
- Power factor: >.90
- Input power stays constant over life.
- Field replaceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).
- High-efficacy LEDs mounted to metal-core circuit board to maximize heat dissipation
- Components are fully encased in potting material for moisture resistance. Driver complies with FCC standards. Driver and key electronic components can easily be accessed.

### Controls

- Optional integral passive infrared Bluetooth™ motion. Fixtures operate independently and can be commissioned via iOS or Android configuration app
- LSI's AirLink™ wireless control system options reduce energy and maintenance

costs while optimizing light quality 24/7. (see controls section for more details).

### Installation

- Designed to mount to square or round poles.
- A single fastener secures the hinged door, underneath the housing and provides quick & easy access to the electrical compartment.
- Included terminal block accepts up to 12 ga. wire.
- Utilizes LSI's traditional 3" drill pattern B3 for easy fastening of LSI products.

### Warranty

- LSI LED Fixtures carry a 5-year warranty.

### Listings

- Listed to UL 1598 and UL 8750.
- Meets Buy American Act requirements.
- IDA compliant; with 3000K color temperature selection.
- Title 24 Compliant; see local ordinance for qualification information.
- RoHS compliant
- Suitable for wet Locations.
- IP66 rated Luminaire per IEC 60598.
- 3G rated for ANSI C136.31 high vibration applications are qualified.
- DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at [www.designlights.org/QPL](http://www.designlights.org/QPL) to confirm which versions are qualified.
- Patented Silicone Optics (US Patent NO. 10,816,165 B2)
- IK08 rated luminaire per IEC 66262 mechanical impact code



# Mirada Medium Outdoor LED Area Light

 **Have questions?** Call us at (800) 436-7800

Type : \_\_\_\_\_

## ORDERING GUIDE

[Back to Quick Links](#)

**TYPICAL ORDER EXAMPLE: MRM LED 36L SIL FTA UNV DIM 50 70CRI ALSCS04 BRZ IL**

| Prefix                         | Light Source | Lumen Package   | Lens           | Distribution   | Orientation <sup>2</sup>  | Voltage  | Driver                      |
|--------------------------------|--------------|---|----------------|--|---|--|-----------------------------|
| MRM - Mirada Medium Area Light | LED          | 7L - 7,000 lms, 48W<br>9L - 9,000 lms, 62W<br>12L - 12,000 lms, 85W<br>18L - 18,000 lms, 135W<br>24L - 24,000 lms, 176W<br>30L - 30,000 lms, 232W<br>36L - 36,000 lms, 288W<br>42L - 42,000 lms, 314W<br>48L - 48,000 lms, 401W<br>55L - 55,000 lms, 438W<br>Custom Lumen Packages <sup>1</sup> | SIL - Silicone | 2 - Type 2<br>3 - Type 3<br>4 - Type 4<br>5W - Type 5 Wide<br>FT - Forward Throw<br>FTA - Forward Throw Automotive<br>AM - Automotive Merchandise<br>LC - Left Corner<br>RC - Right Corner | (blank) - standard<br>L - Optics rotated left 90°<br>R - Optics rotated right 90° | UNV - Universal Voltage (120-277V)<br>HV - High Voltage (347-480V) | DIM - 0-10V Dimming (0-10%) |

| Color Temp   | Color Rendering | Finish   | Options  |
|--|-----------------|--|--|
| 50 - 5,000 CCT<br>40 - 4,000 CCT<br>30 - 3,000 CCT<br>AMB - Phosphor Converted Amber <sup>12</sup> | 70CRI - 70 CRI  | BLK - Black<br>BRZ - Dark Bronze<br>GMG - Gun Metal Gray<br>GPT - Graphite | MSV - Metallic Silver<br>PLP - Platinum Plus<br>SVG - Satin Verde Green<br>WHT - White<br>(Blank) - None<br>IH - Integral Half Louver (Moderate Spill Light Cutoff) <sup>2</sup><br>IL - Integral Louver (Sharp Spill Light Cutoff) <sup>2</sup> |

### Controls (Choose One)

(Blank) - None

#### Wireless Controls System

ALSC - AirLink Synapse Control System<sup>13</sup>

ALSCS02 - AirLink Synapse Control System with 12-20' Motion Sensor<sup>13</sup>

ALSCS04 - AirLink Synapse Control System with 20-40' Motion Sensor<sup>13</sup>

ALBCS1 - AirLink Blue Wireless Motion & Photo Sensor Controller (8-24' mounting height)<sup>5</sup>

ALBCS2 - AirLink Blue Wireless Motion & Photo Sensor Controller (25-40' mounting height)<sup>5</sup>

#### Stand-Alone Controls

EXT - 0-10v Dimming leads extended to housing exterior

CR7P - 7 Pin Control Receptacle ANSI C136.41<sup>6</sup>

IMSBT11 - Integral Bluetooth™ Motion and Photocell Sensor (8-24' MH)<sup>5</sup>

IMSBT12 - Integral Bluetooth™ Motion and Photocell Sensor (25-40' MH)<sup>5</sup>

#### Button Type Photocells

PC1120 - 120V

PC1208-277 - 208 -277V

PC1347 - 347V



**Need more information?**

Click here for our glossary

**Have additional questions?**

Call us at (800) 436-7800



## ACCESSORY ORDERING INFORMATION<sup>7</sup>

| CONTROLS ACCESSORIES   |                |
|--|----------------|
| Description  | Order Number   |
| PC120 Photocell for use with CR7P option (120V) <sup>8</sup>                 | <b>122514</b>  |
| PC208-277 Photocell for use with CR7P option (208V, 240V, 277V) <sup>8</sup> | <b>122515</b>  |
| Twist Lock Photocell (347V) for use with CR7P <sup>8</sup>                   | <b>122516</b>  |
| Twist Lock Photocell (480V) for use with CR7P <sup>8</sup>                   | <b>1225180</b> |
| AirLink 5 Pin Twist Lock Controller (120-277V Only) <sup>8</sup>             | <b>661409</b>  |
| AirLink 7 Pin Twist Lock Controller (120-277V Only) <sup>8</sup>             | <b>661410</b>  |
| AirLink 7 Pin Twist Lock Controller (347-480V)                               | <b>679948</b>  |
| Shorting Cap for use with CR7P   | <b>149328</b>  |

| FUSING OPTIONS <sup>11</sup> |  |
|------------------------------|--|
| Single Fusing (120V)         |  |
| Single Fusing (277V)         |  |
| Double Fusing (208, 240V)    |  |
| Double Fusing (480V)         |  |
| Double Fusing (347V)         |  |

[See Fusing Accessory Guide](#)

| SHIELDING OPTIONS |  |
|-------------------|--|
| Mirada Small      |  |
| Mirada Medium     |  |
| Mirada Large      |  |
| Zone Medium       |  |
| Zone Large        |  |
| Slice Medium      |  |

[See Shielding Guide](#)

1. Custom lumen and wattage packages available, consult factory. Values are within industry standard tolerances but not DLC listed.
2. Not available with 5W distribution
3. Consult Factory for availability.
4. Not available in HV.
5. Motion sensors are field configurable via an app that can be downloaded from your smartphone's native app store. See controls section for more details.
6. Control device or shorting cap must be ordered separately. See Accessory Ordering Information.
7. Accessories are shipped separately and field installed.
8. Factory installed CR7P option required. See Options.
9. "CLR" denotes finish. See Finish options.
10. Only available with ALSC/ALSCH control options.
11. Fusing must be located in hand hole of pole. See [Fusing Accessory Guide](#) for compatibility.
12. Only available in 9L, 12L, 18L and 24L Lumen Packages. Consult factory for lead time and availability.
13. Not available with 55L Lumen Package.

# Mirada Medium Outdoor LED Area Light

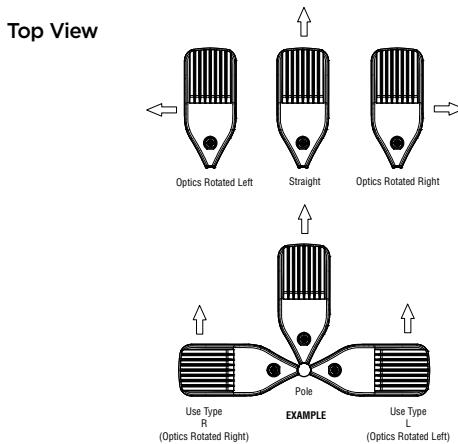
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## ACCESSORIES

| MOUNTING ACCESSORIES  |  |   | SHIELDING, POLES & MISC. ACCESSORIES   |   |
|-----------------------|--|---|--|---|
| Side Arm              | <b>Universal Mounting Bracket</b><br>Mounts to ≥ 3" square or round (tapered/straight) poles with (2) mounting hole spaces between 3.5" to 5"<br><br>Part Number: BKA UMB CLR      |    | <b>Integral Louver</b><br>Field Install Integral Louver provides maximum backlight control by shielding each individual row of LEDs<br><br>Part Number: 690981   |    |
|                       | <b>Quick Mount Plate</b><br>True one person installation to existing/new construction poles with hole spaces between 2.4 to 4.6"<br><br>Part Number: BKS PQM B3B5 XX CLR           |    | <b>Integral Half Louver</b><br>Field Install Integral Half Louver provides great backlight control without impacting front side distribution.<br><br>Part Number: 743415   |    |
|                       | <b>15° Tilt Quick Mount Plate</b><br>True one person installation to existing/new construction poles with hole spaces between 2.4 to 4.6"<br><br>Part Number: BKS PQ15 B3B5 XX CLR |    | <b>External Shield</b><br>External shield blocks view of light source from any side of luminaire, additional shielding configurations available<br><br>Part Number: 783607BLK (3") / 776538BLK (6")  |    |
| Tenon / Slipfitter    | <b>Adjustable Slipfitter</b><br>Mounts onto a 2" (51mm) IP, 2.375" (60mm) O.D. tenon and provides 180° of tilt (max 45° above horizontal)<br><br>Part Number: BKA ASF CLR          |    | <b>Square Poles</b><br>14 - 39' steel and aluminum poles in 4", 5" and 6" sizes for retrofit and new construction<br><br>Part Number: 4SQ/5SQ/6SQ  |    |
|                       | <b>Square Tenon Top</b><br>Mounts onto a 2" (51mm) IP, 2.375" (60mm) O.D. tenon and allows for mounting up to 4 luminaires<br><br>Part Number: BKA XNM *                           |    | <b>Round Poles</b><br>10 - 30' steel and aluminum poles in 4" and 5" sizes for retrofit and new construction<br><br>Part Number: 4RP/5RP   |    |
|                       | <b>Square Internal Slipfitter</b><br>Mounts inside 4" or 5" square pole and allows for mounting up to 4 luminaires<br><br>Part Number: BKA X_ISF * CLR                             |  | <b>Tapered Poles</b><br>20' - 39' steel and aluminum poles for retrofit and new construction<br><br>Part Number: RTP   |  |
| Wall Mount/ Wood Pole | <b>Wall Mount Bracket</b><br>Mounts onto vertical wall surface ( hardware/anchors not included)<br><br>Part Number: BKS XBO WM CLR   |  | <b>Bird Spikes</b><br>10' Linear Bird Spike Kit, 4' recommended per luminaire, includes silicone adhesive and application tool<br><br>Spike Part Number: 751631<br>Adhesive Part Number: 751632<br>Caulk Gun Part Number: 751636   |  |
|                       | <b>Wood Pole Bracket</b><br>Mounts onto wooden poles (6" minimum OD, hardware/anchors not included)<br><br>Part Number: BKS XBO WP CLR   |  | Replace CLR with paint finish description<br>Replace X with: 3<br>Replace XX with SQ for square pole or RD for round pole (≥3" OD)<br>Replace * with S (Single), D180 (Double @180°), D90 (Double @90°), T90 (Triple), Q90 (Quad)<br>Replace _ with 4 (4" square pole) or 5 (5" square pole) |   |

## OPTICS ROTATION



## ACCESSORIES/OPTIONS

### Integral Louver (IL) and House-Side Shield (IH)

Integral Louver (IL) and half louver (IH) accessory shields available for improved backlight control without sacrificing street side performance. LSI's Integral Louver (IL) and Integral House-Side Shield (IH) options deliver backlight control that significantly reduces spill light behind the poles for applications with pole locations close to adjacent properties. The design maximizes forward reflected light while reducing glare, maintaining the optical distribution selected, and most importantly eliminating light trespass. Both options rotate

Luminaire Shown with Integral Louver (IL)



Luminaire Shown with IMSBTL Option



### 7 Pin Photoelectric Control

7-pin ANSI C136.41-2013 control receptacle option available for twist lock photocontrols or wireless control modules. Control accessories sold separately. Dimming leads from the receptacle will be connected to the driver dimming leads (Consult factory for alternate wiring).

Luminaire Shown with CR7P



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SPEC.1020.B.0422

# Mirada Medium Outdoor LED Area Light

Type: \_\_\_\_\_

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## PERFORMANCE

[Back to Quick Links](#)

| DELIVERED LUMENS* |              |     |                  |          |            |                  |          |            |                  |          |            |
|-------------------|--------------|-----|------------------|----------|------------|------------------|----------|------------|------------------|----------|------------|
| Lumen Package     | Distribution | CRI | 3000K CCT        |          |            | 4000K CCT        |          |            | 5000K CCT        |          |            |
|                   |              |     | Delivered Lumens | Efficacy | BUG Rating | Delivered Lumens | Efficacy | BUG Rating | Delivered Lumens | Efficacy | BUG Rating |
| 9L                | 2            | 70  | 9853             | 159      | B2-U0-G2   | 9853             | 159      | B2-U0-G2   | 9853             | 159      | B2-U0-G2   |
|                   | 3            |     | 9926             | 160      | B2-U0-G2   | 9926             | 160      | B2-U0-G2   | 9926             | 160      | B2-U0-G2   |
|                   | 4            |     | 9178             | 148      | B2-U0-G3   | 9713             | 157      | B2-U0-G3   | 9498             | 153      | B2-U0-G3   |
|                   | 5W           |     | 9504             | 153      | B3-U0-G2   | 9504             | 153      | B3-U0-G2   | 9504             | 153      | B3-U0-G2   |
|                   | FT           |     | 9856             | 159      | B2-U0-G3   | 9856             | 159      | B2-U0-G3   | 9856             | 159      | B2-U0-G3   |
|                   | FTA          |     | 9900             | 160      | B2-U0-G2   | 9900             | 160      | B2-U0-G2   | 9900             | 160      | B2-U0-G2   |
|                   | AM           |     | 10019            | 162      | B2-U0-G1   | 10019            | 162      | B2-U0-G1   | 10019            | 162      | B2-U0-G1   |
|                   | LC/RC        |     | 9008             | 145      | B2-U0-G3   | 9533             | 154      | B2-U0-G3   | 9321             | 150      | B2-U0-G3   |
| 12L               | 2            | 70  | 13135            | 155      | B3-U0-G2   | 13135            | 155      | B3-U0-G2   | 13135            | 155      | B3-U0-G2   |
|                   | 3            |     | 13232            | 156      | B2-U0-G2   | 13232            | 156      | B2-U0-G2   | 13232            | 156      | B2-U0-G2   |
|                   | 4            |     | 12223            | 144      | B2-U0-G3   | 12935            | 152      | B2-U0-G4   | 12648            | 149      | B2-U0-G4   |
|                   | 5W           |     | 12669            | 149      | B4-U0-G2   | 12669            | 149      | B4-U0-G2   | 12669            | 149      | B4-U0-G2   |
|                   | FT           |     | 13138            | 155      | B2-U0-G3   | 13138            | 155      | B2-U0-G3   | 13138            | 155      | B2-U0-G3   |
|                   | FTA          |     | 13196            | 155      | B2-U0-G2   | 13196            | 155      | B2-U0-G2   | 13196            | 155      | B2-U0-G2   |
|                   | AM           |     | 13355            | 157      | B2-U0-G2   | 13355            | 157      | B2-U0-G2   | 13355            | 157      | B2-U0-G2   |
|                   | LC/RC        |     | 11996            | 141      | B2-U0-G3   | 12695            | 149      | B2-U0-G3   | 12414            | 146      | B2-U0-G3   |
| 18L               | 2            | 70  | 19318            | 143      | B3-U0-G3   | 19318            | 143      | B3-U0-G3   | 19318            | 143      | B3-U0-G3   |
|                   | 3            |     | 19461            | 144      | B3-U0-G3   | 19461            | 144      | B3-U0-G3   | 19461            | 144      | B3-U0-G3   |
|                   | 4            |     | 18013            | 133      | B2-U0-G4   | 19063            | 141      | B3-U0-G5   | 18640            | 138      | B3-U0-G5   |
|                   | 5W           |     | 18633            | 138      | B4-U0-G2   | 18633            | 138      | B4-U0-G2   | 18633            | 138      | B4-U0-G2   |
|                   | FT           |     | 19324            | 143      | B3-U0-G3   | 19324            | 143      | B3-U0-G3   | 19324            | 143      | B3-U0-G3   |
|                   | FTA          |     | 19408            | 144      | B3-U0-G3   | 19408            | 144      | B3-U0-G3   | 19408            | 144      | B3-U0-G3   |
|                   | AM           |     | 19641            | 145      | B3-U0-G2   | 19641            | 145      | B3-U0-G2   | 19641            | 145      | B3-U0-G2   |
|                   | LC/RC        |     | 17679            | 131      | B2-U0-G3   | 18710            | 139      | B2-U0-G3   | 18295            | 136      | B2-U0-G3   |
| 24L               | 2            | 70  | 24142            | 147      | B4-U0-G3   | 25957            | 147      | B4-U0-G3   | 25957            | 147      | B4-U0-G3   |
|                   | 3            |     | 25001            | 149      | B3-U0-G3   | 26149            | 149      | B3-U0-G3   | 26149            | 149      | B3-U0-G3   |
|                   | 4            |     | 24396            | 152      | B3-U0-G5   | 25600            | 160      | B3-U0-G5   | 25457            | 159      | B3-U0-G5   |
|                   | 5W           |     | 24327            | 142      | B5-U0-G3   | 25037            | 142      | B5-U0-G3   | 25037            | 142      | B5-U0-G3   |
|                   | FT           |     | 24994            | 148      | B3-U0-G3   | 25964            | 148      | B3-U0-G3   | 25964            | 148      | B3-U0-G3   |
|                   | FTA          |     | 24171            | 148      | B3-U0-G3   | 26077            | 148      | B4-U0-G3   | 26077            | 148      | B4-U0-G3   |
|                   | AM           |     | 24939            | 150      | B3-U0-G2   | 26393            | 150      | B3-U0-G2   | 26393            | 150      | B3-U0-G2   |
|                   | LC/RC        |     | 25884            | 162      | B3-U0-G4   | 25884            | 162      | B3-U0-G4   | 25310            | 158      | B3-U0-G4   |
| 30L               | 2            | 70  | 30171            | 140      | B4-U0-G3   | 32417            | 140      | B4-U0-G3   | 32417            | 140      | B4-U0-G3   |
|                   | 3            |     | 31243            | 141      | B3-U0-G4   | 32656            | 141      | B3-U0-G4   | 32656            | 141      | B3-U0-G4   |
|                   | 4            |     | 30651            | 144      | B3-U0-G5   | 32141            | 151      | B3-U0-G5   | 31961            | 150      | B3-U0-G5   |
|                   | 5W           |     | 30402            | 135      | B5-U0-G3   | 31267            | 135      | B5-U0-G3   | 31267            | 135      | B5-U0-G3   |
|                   | FT           |     | 31233            | 140      | B4-U0-G4   | 32424            | 140      | B4-U0-G4   | 32424            | 140      | B4-U0-G4   |
|                   | FTA          |     | 30207            | 140      | B4-U0-G4   | 32566            | 140      | B4-U0-G4   | 32566            | 140      | B4-U0-G4   |
|                   | AM           |     | 3116             | 142      | B4-U0-G3   | 32960            | 142      | B4-U0-G3   | 32960            | 142      | B4-U0-G3   |
|                   | LC/RC        |     | 32498            | 153      | B3-U0-G5   | 32498            | 153      | B3-U0-G5   | 31777            | 149      | B3-U0-G5   |

\*LEDs are frequently updated therefore values are nominal.



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# Mirada Medium Outdoor LED Area Light

Type : \_\_\_\_\_

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## PERFORMANCE (CONT.)

| DELIVERED LUMENS* |              |     |                  |          |            |                  |          |            |                  |          |            |         |
|-------------------|--------------|-----|------------------|----------|------------|------------------|----------|------------|------------------|----------|------------|---------|
| Lumen Package     | Distribution | CRI | 3000K CCT        |          |            | 4000K CCT        |          |            | 5000K CCT        |          |            | Wattage |
|                   |              |     | Delivered Lumens | Efficacy | BUG Rating | Delivered Lumens | Efficacy | BUG Rating | Delivered Lumens | Efficacy | BUG Rating |         |
| 36L               | 2            | 70  | 35357            | 133      | B4-U0-G3   | 38275            | 133      | B4-U0-G3   | 38275            | 133      | B4-U0-G3   | 288     |
|                   | 3            |     | 36614            | 134      | B4-U0-G4   | 38557            | 134      | B4-U0-G4   | 38557            | 134      | B4-U0-G4   |         |
|                   | 4            |     | 35402            | 139      | B3-U0-G5   | 37148            | 146      | B4-U0-G5   | 36940            | 145      | B4-U0-G5   |         |
|                   | 5W           |     | 35627            | 128      | B5-U0-G4   | 36917            | 128      | B5-U0-G4   | 36917            | 128      | B5-U0-G4   |         |
|                   | FT           |     | 36602            | 133      | B4-U0-G4   | 38283            | 133      | B4-U0-G4   | 38283            | 133      | B4-U0-G4   |         |
|                   | FTA          |     | 35399            | 134      | B4-U0-G4   | 38450            | 134      | B4-U0-G4   | 38450            | 134      | B4-U0-G4   |         |
|                   | AM           |     | 36524            | 135      | B4-U0-G3   | 38916            | 135      | B4-U0-G3   | 38916            | 135      | B4-U0-G3   |         |
|                   | LC/RC        |     | 37561            | 147      | B3-U0-G5   | 37561            | 147      | B3-U0-G5   | 36727            | 144      | B3-U0-G5   |         |
|                   | 2            |     | 41035            | 131      | B5-U0-G4   | 42602            | 136      | B5-U0-G4   | 42542            | 135      | B5-U0-G4   | 314     |
| 42L               | 3            | 70  | 42493            | 135      | B4-U0-G5   | 44115            | 140      | B4-U0-G5   | 44053            | 140      | B4-U0-G5   |         |
|                   | 4            |     | 41453            | 132      | B4-U0-G5   | 43497            | 138      | B4-U0-G5   | 43254            | 138      | B4-U0-G5   |         |
|                   | 5W           |     | 41349            | 132      | B5-U0-G4   | 42927            | 134      | B5-U0-G4   | 42866            | 137      | B5-U0-G4   |         |
|                   | FT           |     | 42481            | 135      | B4-U0-G4   | 44103            | 140      | B4-U0-G4   | 44040            | 140      | B4-U0-G4   |         |
|                   | FTA          |     | 41083            | 131      | B4-U0-G4   | 42652            | 136      | B5-U0-G4   | 42591            | 136      | B5-U0-G4   |         |
|                   | AM           |     | 42389            | 135      | B4-U0-G3   | 44007            | 140      | B4-U0-G3   | 43944            | 140      | B4-U0-G3   |         |
|                   | LC/RC        |     | 43980            | 140      | B3-U0-G5   | 43980            | 140      | B3-U0-G5   | 43004            | 137      | B3-U0-G5   |         |
|                   | 2            | 70  | 45133            | 123      | B5-U0-G4   | 46856            | 128      | B5-U0-G4   | 46789            | 128      | B5-U0-G4   | 401     |
|                   | 3            |     | 46737            | 128      | B4-U0-G5   | 48521            | 133      | B4-U0-G5   | 48452            | 132      | B4-U0-G5   |         |
|                   | 4            |     | 46006            | 126      | B4-U0-G5   | 48275            | 132      | B4-U0-G5   | 48005            | 131      | B4-U0-G5   |         |
|                   | 5W           |     | 45478            | 124      | B5-U0-G4   | 47214            | 129      | B5-U0-G4   | 47147            | 129      | B5-U0-G4   |         |
|                   | FT           |     | 46723            | 128      | B4-U0-G5   | 48507            | 133      | B4-U0-G5   | 48438            | 132      | B4-U0-G5   |         |
|                   | FTA          |     | 45187            | 123      | B5-U0-G4   | 46912            | 128      | B5-U0-G4   | 46845            | 128      | B5-U0-G4   |         |
|                   | AM           |     | 4662             | 127      | B4-U0-G3   | 48402            | 132      | B4-U0-G3   | 48333            | 132      | B4-U0-G3   |         |
|                   | LC/RC        |     | 48811            | 133      | B4-U0-G5   | 48811            | 133      | B4-U0-G5   | 47728            | 130      | B4-U0-G5   |         |
| 55L               | 2            | 70  | 50179            | 115      | B5-U0-G4   | 52095            | 119      | B5-U0-G4   | 52021            | 119      | B5-U0-G4   | 438     |
|                   | 3            |     | 51963            | 119      | B4-U0-G5   | 53947            | 123      | B4-U0-G5   | 53870            | 123      | B4-U0-G5   |         |
|                   | 4            |     | 51635            | 119      | B4-U0-G5   | 54181            | 125      | B4-U0-G5   | 53878            | 124      | B4-U0-G5   |         |
|                   | 5W           |     | 50563            | 115      | B5-U0-G4   | 52493            | 120      | B5-U0-G4   | 52418            | 120      | B5-U0-G4   |         |
|                   | FT           |     | 50539            | 115      | B4-U0-G5   | 52468            | 120      | B4-U0-G5   | 52394            | 120      | B4-U0-G5   |         |
|                   | FTA          |     | 50239            | 115      | B5-U0-G4   | 52157            | 119      | B5-U0-G4   | 52082            | 119      | B5-U0-G4   |         |
|                   | AM           |     | 52223            | 119      | B4-U0-G3   | 54216            | 124      | B4-U0-G3   | 54139            | 124      | B4-U0-G3   |         |
|                   | LC/RC        |     | 54113            | 124      | B4-U0-G5   | 54113            | 124      | B4-U0-G5   | 52912            | 121      | B4-U0-G5   |         |

\*LEDs are frequently updated therefore values are nominal.



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SPEC.1020.B.0422

# Mirada Medium Outdoor LED Area Light

Have questions? Call us at (800) 436-7800

Type: \_\_\_\_\_

## PERFORMANCE (CONT.)

| ELECTRICAL DATA (AMPS)* |      |      |      |      |      |      |
|-------------------------|------|------|------|------|------|------|
| Lumens                  | 120V | 208V | 240V | 277V | 347V | 480V |
| 9L                      | 0.52 | 0.30 | 0.26 | 0.22 | 0.18 | 0.13 |
| 12L                     | 0.71 | 0.41 | 0.35 | 0.31 | 0.24 | 0.18 |
| 18L                     | 1.13 | 0.65 | 0.56 | 0.49 | 0.39 | 0.28 |
| 24L                     | 1.33 | 0.77 | 0.67 | 0.58 | 0.46 | 0.33 |
| 30L                     | 1.78 | 1.02 | 0.89 | 0.77 | 0.61 | 0.44 |
| 36L                     | 2.12 | 1.22 | 1.06 | 0.92 | 0.73 | 0.53 |
| 42L                     | 2.62 | 1.51 | 1.31 | 1.13 | 0.90 | 0.65 |
| 48L                     | 3.05 | 1.76 | 1.53 | 1.32 | 1.05 | 0.76 |
| 55L                     | 3.65 | 2.11 | 1.83 | 1.58 | 1.26 | 0.91 |

| RECOMMENDED LUMEN MAINTENANCE <sup>1</sup> (0-25°C) |                      |                  |                   |                   |                    |
|---|----------------------|------------------|-------------------|-------------------|--------------------|
| Ambient   | Initial <sup>2</sup> | 25h <sup>2</sup> | 50hr <sup>2</sup> | 75hr <sup>2</sup> | 100hr <sup>2</sup> |
| 9L - 18L  | 100%                 | 97%              | 93%               | 90%               | 86%                |
| 24L - 48L   | 100%                 | 95%              | 89%               | 84%               | 79%                |
| 55L   | 100%                 | 91%              | 82%               | 74%               | 67%                |

| RECOMMENDED LUMEN MAINTENANCE <sup>1</sup> (40°C) |                      |                  |                   |                   |                    |
|---|----------------------|------------------|-------------------|-------------------|--------------------|
| Ambient   | Initial <sup>2</sup> | 25h <sup>2</sup> | 50hr <sup>2</sup> | 75hr <sup>2</sup> | 100hr <sup>2</sup> |
| 9L - 18L  | 100%                 | 97%              | 92%               | 88%               | 84%                |
| 24L - 48L   | 100%                 | 94%              | 87%               | 80%               | 74%                |

| RECOMMENDED LUMEN MAINTENANCE <sup>1</sup> (50°C) |                      |                  |                   |                   |                    |
|---|----------------------|------------------|-------------------|-------------------|--------------------|
| Ambient   | Initial <sup>2</sup> | 25h <sup>2</sup> | 50hr <sup>2</sup> | 75hr <sup>2</sup> | 100hr <sup>2</sup> |
| 9L - 18L C  | 100%                 | 96%              | 91%               | 87%               | 85%                |

\*Electrical data at 25°C (77°F). Actual wattage may differ by +/-10%

1. Lumen maintenance values at 25C are calculated per TM-21 based on LM-80 data and in-situ testing.
2. In accordance with IESNA TM-21-11, Projected Values represent interpolated value based on time durations that are within six times the IESNA LM-80-08 total test duration for the device under testing.
3. In accordance with IESNA TM-21-11, Calculated Values represent time durations that exceed six times the IESNA LM-80-08 total test duration for the device under testing.

| DELIVERED LUMENS* |              |                                       |          |            |         |
|-------------------|--------------|---------------------------------------|----------|------------|---------|
| Lumen Package     | Distribution | Phosphor Converted Amber (Peak 610mm) |          |            | Wattage |
|                   |              | Delivered Lumens                      | Efficacy | BUG Rating |         |
| 9L                | 2            | 5848                                  | 80       | B2-U0-G2   | 74      |
|                   | 3            | 6018                                  | 82       | B1-U0-G2   |         |
|                   | 5W           | 5471                                  | 74       | B3-U0-G1   |         |
|                   | FT           | 5801                                  | 79       | B1-U0-G2   |         |
|                   | FTA          | 5924                                  | 81       | B1-U0-G1   |         |
|                   | AM           | 5995                                  | 81       | B1-U0-G1   |         |
| 12L               | 2            | 7530                                  | 74       | B2-U0-G2   | 102     |
|                   | 3            | 7749                                  | 76       | B1-U0-G2   |         |
|                   | 5W           | 7045                                  | 69       | B3-U0-G2   |         |
|                   | FT           | 7470                                  | 73       | B2-U0-G2   |         |
|                   | FTA          | 7628                                  | 75       | B2-U0-G2   |         |
|                   | AM           | 7720                                  | 76       | B1-U0-G1   |         |
| 18L               | 2            | 9311                                  | 69       | B2-U0-G2   | 135     |
|                   | 3            | 9582                                  | 71       | B2-U0-G2   |         |
|                   | 5W           | 8712                                  | 65       | B3-U0-G2   |         |
|                   | FT           | 9237                                  | 68       | B2-U0-G2   |         |
|                   | FTA          | 9433                                  | 70       | B2-U0-G2   |         |
|                   | AM           | 9546                                  | 71       | B2-U0-G1   |         |
| 24L               | 2            | 10955                                 | 63       | B2-U0-G2   | 175     |
|                   | 3            | 11273                                 | 64       | B2-U0-G2   |         |
|                   | 5W           | 10249                                 | 59       | B3-U0-G2   |         |
|                   | FT           | 10867                                 | 62       | B2-U0-G2   |         |
|                   | FTA          | 11097                                 | 63       | B2-U0-G2   |         |
|                   | AM           | 11230                                 | 64       | B2-U0-G1   |         |

| ELECTRICAL DATA - PHOSPHOR CONVERTED AMBER (AMPS)* |      |      |      |      |      |
|--|------|------|------|------|------|
| Lumens   | 120V | 208V | 240V | 277V | 347V |
| 9L   | 0.62 | 0.36 | 0.31 | 0.27 | 0.21 |
| 12L  | 0.85 | 0.50 | 0.43 | 0.38 | 0.30 |
| 18L  | 1.13 | 0.65 | 0.56 | 0.49 | 0.39 |
| 24L  | 1.47 | 0.85 | 0.73 | 0.64 | 0.51 |

\*LEDs are frequently updated therefore values are nominal.



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SPEC.1020.B.0422

# Mirada Medium Outdoor LED Area Light

Type: \_\_\_\_\_



## PHOTOMETRICS

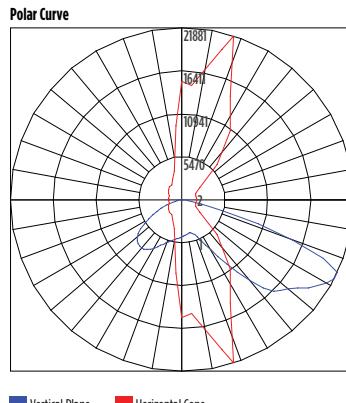
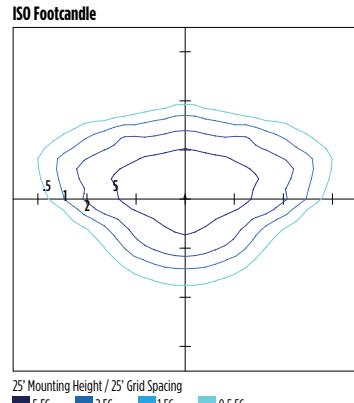
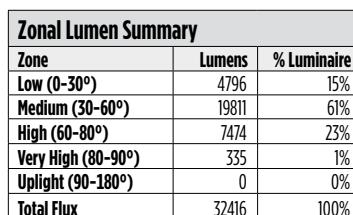
[Back to Quick Links](#)

Luminaire photometry has been conducted by a NVLAP accredited testing laboratory in accordance with IESNA LM-79-08. As specified by IESNA LM-79-08 the entire luminaire is tested as the source resulting in a luminaire efficiency of 100%.

See the individual product page on <https://www.lsicorp.com/> for detailed photometric data.

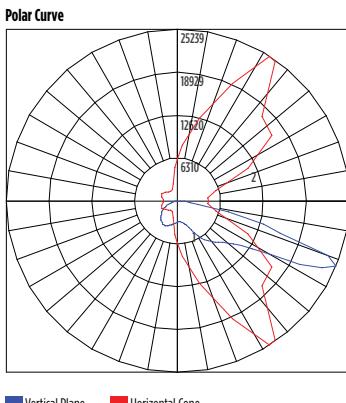
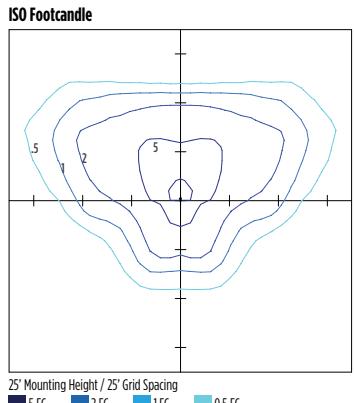
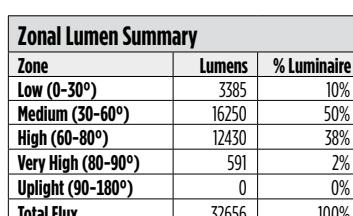
**MRM-LED-30L-SIL-2-40-70CRI**

| <b>Luminaire Data</b>      |                     |
|----------------------------|---------------------|
| <b>Type 2 Distribution</b> |                     |
| <b>Description</b>         | 4000 Kelvin, 70 CRI |
| <b>Delivered Lumens</b>    | 32,416              |
| <b>Watts</b>               | 232                 |
| <b>Efficacy</b>            | 140                 |
| <b>IES Type</b>            | Type II - Short     |
| <b>BUG Rating</b>          | B4-U0-G3            |



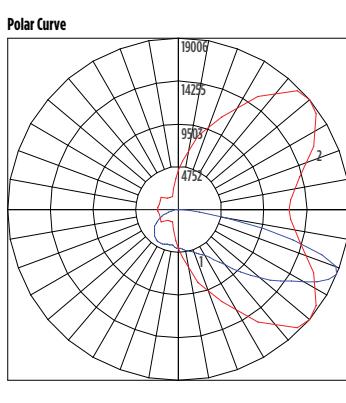
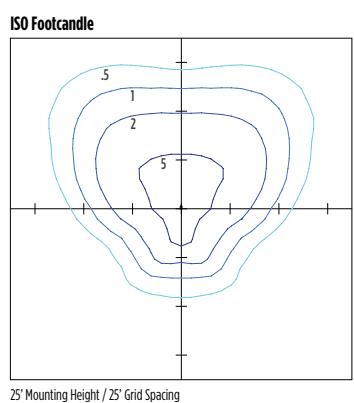
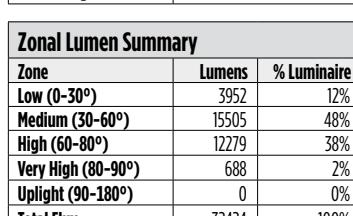
MRM-LED-30L-SIL-3-40-70CRI

| <b>Luminaire Data</b>      |                     |
|----------------------------|---------------------|
| <b>Type 3 Distribution</b> |                     |
| <b>Description</b>         | 4000 Kelvin, 70 CRI |
| <b>Delivered Lumens</b>    | 32,656              |
| <b>Watts</b>               | 232                 |
| <b>Efficacy</b>            | 141                 |
| <b>IES Type</b>            | Type III - Short    |
| <b>RJIC Rating</b>         | R3-110-64           |



MRM-1 ED-301-SII-ET-40-70CB

| <b>Luminaire Data</b>       |                     |
|-----------------------------|---------------------|
| <b>Type FT Distribution</b> |                     |
| <b>Description</b>          | 4000 Kelvin, 70 CRI |
| <b>Delivered Lumens</b>     | 32,424              |
| <b>Watts</b>                | 232                 |
| <b>Efficacy</b>             | 140                 |
| <b>IES Type</b>             | Type IV - Short     |
| <b>RHS Rating</b>           | R7, U2, G4          |



# Mirada Medium Outdoor LED Area Light

Type: \_\_\_\_\_

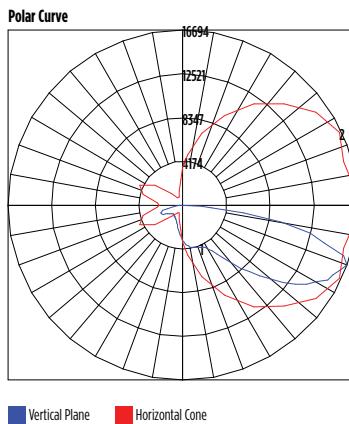
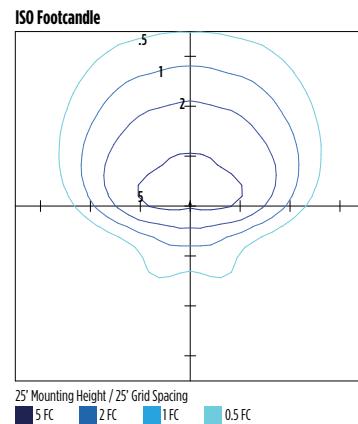
 Have questions? Call us at (800) 436-7800

## PHOTOMETRICS (CONT)

### MRM-LED-30L-SIL-4-40-70CRI

| Luminaire Data      |                      |
|---------------------|----------------------|
| Type 4 Distribution |                      |
| Description         | 4000 Kelvin, 70 CRI  |
| Delivered Lumens    | 32,141               |
| Watts               | 213                  |
| Efficacy            | 151                  |
| IES Type            | Type IV - Very Short |
| BUG Rating          | B3-U0-G5             |

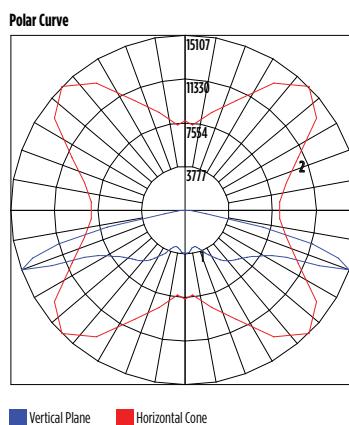
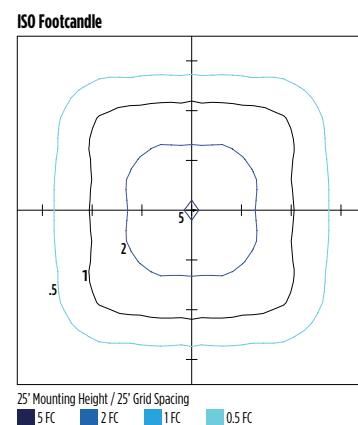
| Zonal Lumen Summary |        |             |
|---------------------|--------|-------------|
| Zone                | Lumens | % Luminaire |
| Low (0-30°)         | 3119   | 10%         |
| Medium (30-60°)     | 13569  | 42%         |
| High (60-80°)       | 13649  | 42%         |
| Very High (80-90°)  | 1804   | 6%          |
| Uplight (90-180°)   | 0      | 0%          |
| Total Flux          | 32141  | 100%        |



### MRM-LED-30L-SIL-5W-40-70CRI

| Luminaire Data       |                     |
|----------------------|---------------------|
| Type 5W Distribution |                     |
| Description          | 4000 Kelvin, 70 CRI |
| Delivered Lumens     | 31,267              |
| Watts                | 232                 |
| Efficacy             | 135                 |
| IES Type             | Type VS - Short     |
| BUG Rating           | B5-U0-G3            |

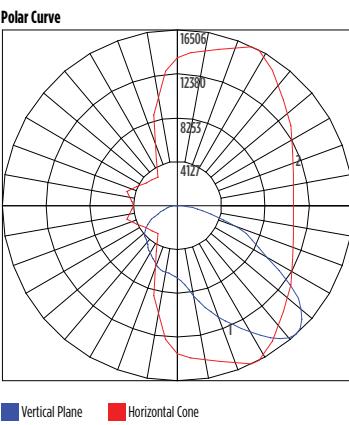
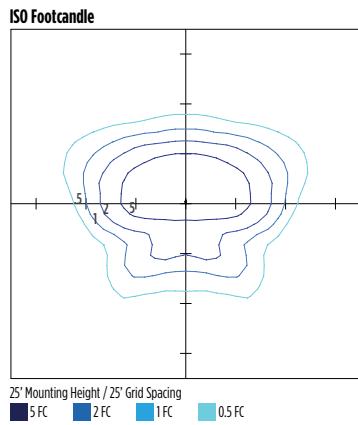
| Zonal Lumen Summary |        |             |
|---------------------|--------|-------------|
| Zone                | Lumens | % Luminaire |
| Low (0-30°)         | 3138   | 10%         |
| Medium (30-60°)     | 13193  | 42%         |
| High (60-80°)       | 14641  | 47%         |
| Very High (80-90°)  | 296    | 1%          |
| Uplight (90-180°)   | 0      | 0%          |
| Total Flux          | 31267  | 100%        |



### MRM-LED-30L-SIL-FTA-40-70CRI

| Luminaire Data        |                     |
|-----------------------|---------------------|
| Type FTA Distribution |                     |
| Description           | 4000 Kelvin, 70 CRI |
| Delivered Lumens      | 32,566              |
| Watts                 | 232                 |
| Efficacy              | 140                 |
| IES Type              | Type VS - Short     |
| BUG Rating            | B4-U0-G3            |

| Zonal Lumen Summary |        |             |
|---------------------|--------|-------------|
| Zone                | Lumens | % Luminaire |
| Low (0-30°)         | 6986   | 21%         |
| Medium (30-60°)     | 19172  | 59%         |
| High (60-80°)       | 5875   | 18%         |
| Very High (80-90°)  | 534    | 2%          |
| Uplight (90-180°)   | 0      | 0%          |
| Total Flux          | 32566  | 100%        |



# Mirada Medium Outdoor LED Area Light

Type: \_\_\_\_\_

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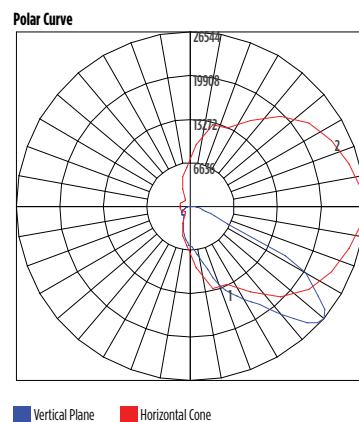
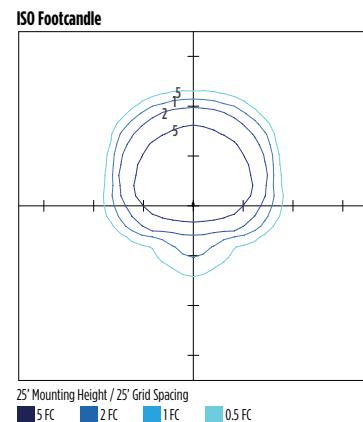
## PHOTOMETRICS (CONT)

[Back to Quick Links](#)

### MRM-LED-30L-SIL-AM-40-70CRI

| Luminaire Data       |                       |
|----------------------|-----------------------|
| Type AM Distribution |                       |
| Description          | 4000 Kelvin, 70 CRI   |
| Delivered Lumens     | 32,960                |
| Watts                | 232                   |
| Efficacy             | 142                   |
| IES Type             | Type III - Very Short |
| BUG Rating           | B3-U0-G3              |

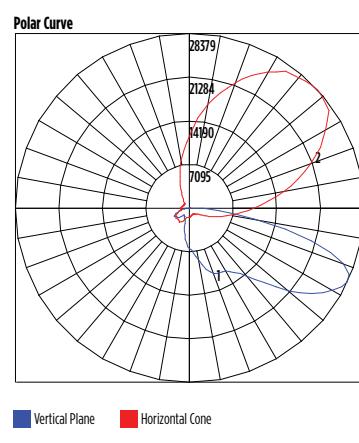
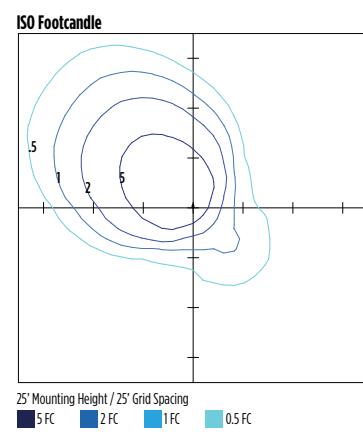
| Zonal Lumen Summary |        |             |
|---------------------|--------|-------------|
| Zone                | Lumens | % Luminaire |
| Low (0-30°)         | 6363   | 19%         |
| Medium (30-60°)     | 22026  | 67%         |
| High (60-80°)       | 4192   | 13%         |
| Very High (80-90°)  | 379    | 1%          |
| Uplight (90-180°)   | 0      | 0%          |
| Total Flux          | 32960  | 100%        |



### MRM-LED-30L-SIL-LC-40-70CRI

| Luminaire Data           |                     |
|--------------------------|---------------------|
| Left Corner Distribution |                     |
| Description              | 4000 Kelvin, 70 CRI |
| Delivered Lumens         | 32,498              |
| Watts                    | 213                 |
| Efficacy                 | 153                 |
| IES Type                 | N/A                 |
| BUG Rating               | B3-U0-G5            |

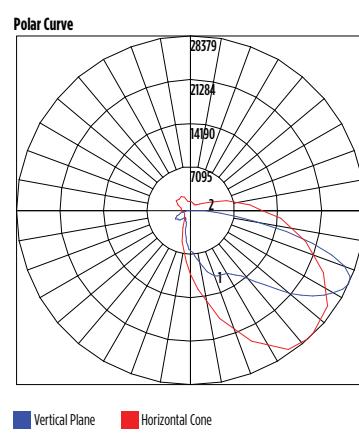
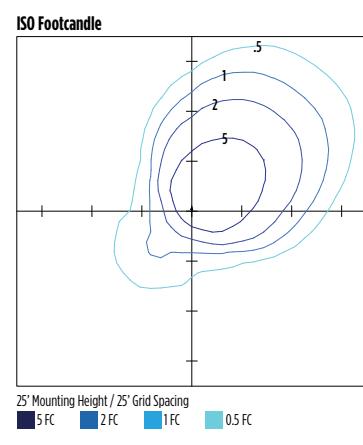
| Zonal Lumen Summary |        |             |
|---------------------|--------|-------------|
| Zone                | Lumens | % Luminaire |
| Low (0-30°)         | 5083   | 16%         |
| Medium (30-60°)     | 14808  | 46%         |
| High (60-80°)       | 11603  | 36%         |
| Very High (80-90°)  | 1005   | 3%          |
| Uplight (90-180°)   | 0      | 0%          |
| Total Flux          | 32498  | 100%        |



### MRM-LED-30L-SIL-RC-40-70CRI

| Luminaire Data            |                     |
|---------------------------|---------------------|
| Right Corner Distribution |                     |
| Description               | 4000 Kelvin, 70 CRI |
| Delivered Lumens          | 32,498              |
| Watts                     | 213                 |
| Efficacy                  | 153                 |
| IES Type                  | N/A                 |
| BUG Rating                | B3-U0-G5            |

| Zonal Lumen Summary |        |             |
|---------------------|--------|-------------|
| Zone                | Lumens | % Luminaire |
| Low (0-30°)         | 5083   | 16%         |
| Medium (30-60°)     | 14808  | 46%         |
| High (60-80°)       | 11603  | 36%         |
| Very High (80-90°)  | 1005   | 3%          |
| Uplight (90-180°)   | 0      | 0%          |
| Total Flux          | 32498  | 100%        |

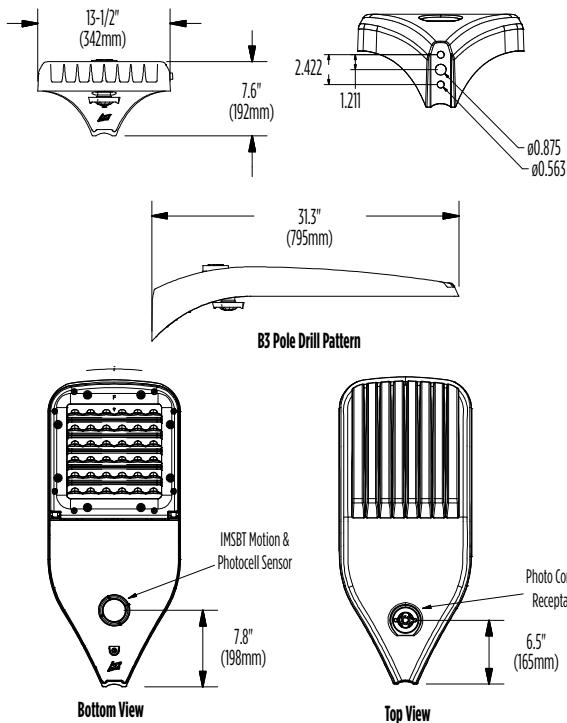


# Mirada Medium Outdoor LED Area Light

Type: \_\_\_\_\_

 Have questions? Call us at (800) 436-7800

## PRODUCT DIMENSIONS



### Luminaire EPA Chart

| Tilt Degree   | 0°  | 15° | 30° | 45° |
|---|-----|-----|-----|-----|
|  <b>Single</b> | 0.5 | 1.0 | 1.5 | 1.9 |
|  <b>D180°</b>  | 1.0 | 1.5 | 1.5 | 1.9 |
|  <b>D90°</b>   | 0.8 | 1.8 | 1.9 | 2.3 |
|  <b>T90°</b>   | 1.0 | 4.0 | 2.5 | 2.8 |
|  <b>TN120°</b> | 1.0 | 2.9 | 3.3 | 3.9 |
|  <b>Q90°</b>   | 1.0 | 4.0 | 2.5 | 2.8 |



# Mirada Medium Outdoor LED Area Light

Type: \_\_\_\_\_

 **Have questions?** Call us at (800) 436-7800

## CONTROLS

### Integral Bluetooth™ Motion and Photocell Sensor (IMSBTxL)

Slim low profile sensor provides multi-level control based on motion and/or daylight. Sensor controls 0-10 VDC LED drivers and is IP66 rated for cold and wet locations (-40°F to 167°F). Two unique PIR lenses are available and used based on fixture mounting height. All control parameters are adjustable via an iOS or Android App capable of storing and transmitting sensor profiles.

[Click here to learn more details about IMSBT](#)



LEVITON App



Apple



Android

### AirLink Blue (ALBCSx)

Wireless Bluetooth Mesh Outdoor Lighting Control System that provides energy savings, code compliance and enhanced safety/security for parking lots and parking garages. Three key components; Bluetooth wireless radio/sensor controller, Time Keeper and an iOS App. Capable of grouping multiple fixtures and sensors as well as scheduling time-based events by zone. Radio/Sensor Controller is factory integrated into Area/Site, Wall Mounted, Parking Garage and Canopy luminaires.

[Click here to learn more details about AirLink Blue](#)



AirLink Blue App



Apple

## Sensor Sequence of Operations

| Standard Programming | On Event | Off Event | On Light Level | Dim Light Level | Daylight Harvesting  | Delay To Off | Sensitivity |
|----------------------|----------|-----------|----------------|-----------------|----------------------|--------------|-------------|
| OMSBTxL/IMSBTxL      | Motion   | No Motion | 100%           | N/A             | On; Auto Calibration | 20 minutes   | High        |
| OMS                  | Motion   | No Motion | N/A            | N/A             | N/A                  | 30 seconds   | Auto        |

| Operation       | Description  |
|-----------------|--|
| On Event        | Trigger that activates lights to turn on; either automatic via motion detected or manually activated via push of button.   |
| Off Event       | Trigger that activates lights to turn off; either automatic via no motion detected or manually activated via push of button.   |
| On Light Level  | The light level that the fixtures will turn on to when ON EVENT occurs.  |
| Dim Light Level | The light level that the fixtures will dim down to when no motion is detected.   |
| Delay to Dim    | The amount of time after which no motion is detected that the fixtures will be triggered to dim down. This sequence is optional, and sensor can be programmed to only trigger the fixture to turn off by entering 100% in this field.  |
| Delay to Off    | The amount of time after which no motion is detected that the fixtures will be triggered to turn off. If delay to dim is part of the programmed functionality, this is the amount of time after which no motion is detected after the fixture have already dimmed down.  |
| Sensitivity     | The sensitivity can be set to high, medium, low, or auto where applicable. High will detect smaller, simple motions. Low will only detect larger more complex motions. Auto temperature calibration adjusts the PIR sensitivity as ambient temperature rises to increase detection of heat movement through the field of view. |



# Steel Poles

## Square Straight



### QUICK LINKS

## FEATURES & SPECIFICATIONS

### Pole Shaft

- Straight poles are 4", 5", or 6" square.
- Pole shaft is electro-welded ASTM-A500 Grade C steel tubing with a minimum yield strength of 50,000 psi.
- On Tenon Mount steel poles, tenon is 2-3/8" O.D. high-strength pipe. Tenon is 4-3/4" in length.

### Hand-Hole

- Standard hand-hole location is 12" above pole base.
- Poles 22' and above have a 3x6 reinforced hand hole.

### Base

- Pole base is ASTM-A36 hot-rolled steel plate with a minimum yield strength of 36,000 psi.
- Two-piece square base cover is optional.

### Anchor Bolts

- Poles are furnished with anchor bolts featuring zinc-plated double nuts and washers. Galvanized anchor bolts are optional.
- Anchor Bolts conform to ASTM F 1554-07a Grade 55 with a minimum yield strength of 55,000 PSI.

### Ground Lug

- Ground lug is standard.

### Duplex Receptacle

- Weatherproof duplex receptacle is optional.

### Ground Fault Circuit Interrupter

- Self-testing Ground fault circuit interrupter is optional.

### Finishes

- Every pole is provided with the DuraGrip Protection System and a 5-year limited warranty:
- When the top-of-the line DuraGrip Plus Protection System is selected, in addition to the DuraGrip Protection System, a non-porous, automotive-grade corrosion coating is applied to the lower portion of the pole interior sealing and further protecting it from corrosion. This option extends the limited warranty to 7 years.

### Determining The Luminaire/Pole Combination For Your Application:

- Select luminaire from luminaire ordering information.
- Select bracket configuration if required
- Determine EPA value from luminaire/bracket EPA chart

- Select Pole Height

- Select MPH to match wind speed in the application area (See windspeed maps).
- Confirm pole EPA equal to or exceeding value of luminaire/bracket EPA
- Consult factory for special wind load requirements and banner brackets.

### Pole Vibration Damper

- A pole vibration damper is recommended in open terrain areas of the country where low steady state winds are common.
- Non-tapered poles and lightly loaded poles are more susceptible to destructive vibration if a damper is not installed.

### Listings

- UL Listed
- BAA/TAA Compliant



# Steel Poles Square Straight

 Have questions? Call us at (800) 436-7800

Type : \_\_\_\_\_

## ORDERING GUIDE

**TYPICAL ORDER EXAMPLE: 4SQ B3 S11G 24 S PLP DGP**

| Pole Series   | Mounting Method  | Material  | Height <sup>2</sup>   | Mounting Configuration                             | Pole Finish                                | Options                             |
|---|--|---|-----------------------|--|--|-------------------------------------|
| <b>4SQ</b> - 4" x 4" Square Straight Pole (New Build) | <b>Bolt-On Mount<sup>1</sup></b> - See pole selection guide for patterns and fixture matches | <b>S11G</b> - 11 Ga. Steel<br>(4SQ/4SQU and<br>5SQ/5SQU Only) | 8'                    | <b>S</b> - Single/Parallel                         | <b>BRZ</b> - Bronze                        | <b>GA</b> - Galvanized Anchor Bolts |
| <b>5SQ</b> - 5" x 5" Square Straight Pole (New Build) | <b>B5</b> - 5" Traditional Drilling Pattern  | <b>10'</b>  | <b>D180</b> - Double  | <b>BLK</b> - Black                                 | <b>SF</b> - Single Flood <sup>3</sup>      |                                     |
| <b>6SQ</b> - 6" x 6" Square Straight Pole (New Build) | <b>B3</b> - 3" Reduced Pattern   | <b>12'</b>  | <b>D90</b> - Double   | <b>PLP</b> - Platinum Plus                         | <b>DF</b> - Double Flood <sup>3</sup>      |                                     |
| <b>4SQU</b> - 4" x 4" Square Straight Pole (Retrofit) | <b>B2</b> - 2" Low Profile Drilling Pattern  | <b>13'</b>  | <b>DN90</b> - Double  | <b>WHT</b> - White                                 | <b>DGP</b> - DuraGrip <sup>®</sup> Plus    |                                     |
| <b>5SQU</b> - 5" x 5" Square Straight Pole (Retrofit) | <b>B2R</b> - Raised 2" Low Profile Drilling Pattern <b>(LAL4 ONLY)</b>                       | <b>14'</b>  | <b>T90</b> - Triple   | <b>SVG</b> - Satin Verde Green                     | <b>LAB</b> - Less Anchor Bolts             |                                     |
| <b>6SQU</b> - 6" x 6" Square Straight Pole (Retrofit) |  | <b>15'</b>  | <b>TN120</b> - Triple | <b>GPT</b> - Graphite                              | <b>CRXX</b> - Conduit Raceway <sup>4</sup> |                                     |
|   |  | <b>16'</b>  | <b>Q90</b> - Quad     | <b>MSV</b> - Metallic Silver                       |  |                                     |
|   |  | <b>17'</b>  | <b>QN90</b> - Quad    | <b>BZA</b> - Alternate Bronze                      |  |                                     |
|   |  | <b>17'6"</b>  |                       | <b>GMG</b> - Gun Metal Gray                        |  |                                     |
|   |  | <b>18'</b>  |                       |  |  |                                     |
|   |  | <b>20'</b>  |                       |  |  |                                     |
|   |  | <b>22'</b>  |                       |  |  |                                     |
|   |  | <b>22'6"</b>  |                       |  |  |                                     |
|   |  | <b>23'</b>  |                       |  |  |                                     |
|   |  | <b>24'</b>  |                       |  |  |                                     |
|   |  | <b>25'</b>  |                       | <b>(Blank)</b> - Use with I for<br>Mounting Method |  |                                     |
|   |  | <b>26'</b>  |                       |  |  |                                     |
|   |  | <b>27'</b>  |                       |  |  |                                     |
|   |  | <b>28'</b>  |                       |  |  |                                     |
|   |  | <b>30'</b>  |                       |  |  |                                     |
|   |  | <b>32'</b>  |                       |  |  |                                     |
|   |  | <b>35'</b>  |                       |  |  |                                     |
|   |  | <b>39'</b>  |                       |  |  |                                     |



**Need more information?**  
[Click here for our glossary](#)

**Have additional questions?**  
Call us at (800) 436-7800



## ACCESSORY ORDERING INFORMATION

| Part Number      | Description  |
|------------------|--|
| <b>122559CLR</b> | 4BC - 4" Square Base Cover   |
| <b>122561CLR</b> | 5BC - 5" Square Base Cover   |
| <b>122563CLR</b> | 6BC - 6" Square Base Cover   |
| <b>132488CLR</b> | 5BC - 5' Square Universal Base Cover   |
| <b>131252CLR</b> | 6BC - 6' Square Universal Base Cover   |
| <b>122566CLR</b> | ER2 - Weatherproof Duplex Receptacle   |
| <b>122567CLR</b> | GFI - Ground Fault Circuit Interrupter   |
| <b>132336</b>    | MH5 - mounting Hole Plugs for use with 5" traditional drill pattern (3 set of 3 plugs) |
| <b>681126</b>    | MH3 - mounting Hole Plugs for use with 3" reduced drill pattern (3 set of 3 plugs)     |
| <b>725841</b>    | MH2 - Mounting Hole Plugs for use with 2" reduced drill pattern (3 sets of 3 plugs)    |
| <b>172539</b>    | Vibration Damper - 4" Square Pole (bolt-on mount only)                                 |
| <b>172538</b>    | Vibration Damper - 5" Square Pole (bolt-on mount only)                                 |
| <b>178361</b>    | Vibration Damper - 6" Square Pole (bolt-on mount only)                                 |

## ANCHOR BOLT KIT ORDERING INFORMATION

| Part Number           | Description                               |
|-----------------------|---|
| <b>AB KIT 122584</b>  | 4SQ S11G/S07G Anchor Bolts (Steel Plated) |
| <b>AB KIT 122609</b>  | 4SQ S11G/S07G Anchor Bolts (Galvanized)   |
| <b>AB KIT 1225850</b> | 5SQ S11G Anchor Bolts (Steel Plated)      |
| <b>AB KIT 122610</b>  | 5SQ S11G Anchor Bolts (Galvanized)        |
| <b>AB KIT 122586</b>  | 5SQ S07G Anchor Bolts (Steel Plated)      |
| <b>AB KIT 122611</b>  | 5SQ S07G Anchor Bolts (Galvanized)        |
| <b>AB KIT 122612</b>  | 6SQ S07G Anchor Bolts (Galvanized)        |

1 - See Area Light Brackets - 3" Reduced Drill Pattern and Area Light Brackets - 5" Traditional Drill Pattern Spec Sheets.

2 - Pole heights will have +/- 1/2" tolerance.

3 - See Flood Lighting Brackets section for choice of FBO brackets.

4 - CR selection must indicate required height and side of pole mounting location. Mounting template required at time of order.



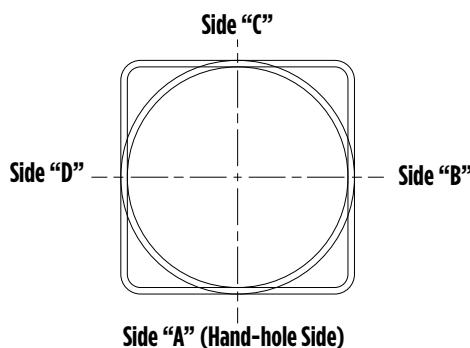
# Steel Poles Square Straight

Have questions? Call us at (800) 436-7800

Type : \_\_\_\_\_

## DRILLING LOCATIONS

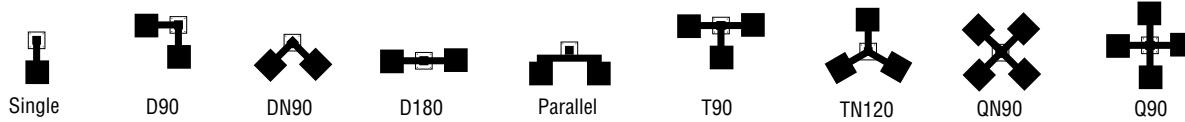
| Sides                    | A | B | C | D |
|--------------------------|---|---|---|---|
| <b>Hand-hole</b>         | X |   |   |   |
| <b>Single</b>            | X |   |   |   |
| <b>D180</b>              |   | X |   | X |
| <b>D90</b>               | X |   |   | X |
| <b>DN90<sup>1</sup></b>  |   |   |   |   |
| <b>T90</b>               | X | X |   | X |
| <b>TN120<sup>2</sup></b> |   |   |   |   |
| <b>Q90</b>               | X | X | X | X |
| <b>QN90<sup>3</sup></b>  |   |   |   |   |
| <b>Single FBO</b>        | X |   |   |   |
| <b>Double FBO</b>        |   | X |   | X |



- 1 - Two locations will be 45° to the left and right of Side A.
- 2 - Other two locations will be 120° to the left and right of Side A.
- 3 - Two locations will be 45° to the left and right of Side A and two locations will be 135° to the left and right of Side A.

Consult factory for custom variations. Standard SF and DF pole preparations are located 3/4 of the height of the pole from the base, except on 20' poles. Maximum height for SF and DF pole preparations on 20' poles is 13' from the base.

## Fixture Configurations



# Steel Poles Square Straight

Have questions? Call us at (800) 436-7800

Type : \_\_\_\_\_

## BOLT CIRCLE

### STANDARD BASEPLATE

4" (102mm) square  
10-1/8" (257mm) sq.



11" (279mm) Dia. Bolt Circle

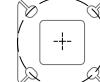
5" (127mm) square  
10-1/8" (257mm) sq.



5" (127mm) square  
10-1/8" (257mm) sq.



6" (152mm) square  
12" (305mm) sq.



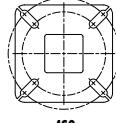
12" (305mm) Dia. Bolt Circle

| Bolt Circle Designator               | B                                      | C                                      | D                                    | J                                    |
|--------------------------------------|--|--|--------------------------------------|--------------------------------------|
| Bolt Circle                          | 8"-11" Slotted (203mm-279mm)           | 9"-11" Slotted (229mm-279mm)           | 9"-11" Slotted (229mm-279mm)         | 12" Slotted (305mm)                  |
| Anchor Bolt Size                     | 3/4" x 24" (19mm x 609mm)              | 3/4" x 24" (19mm x 609mm)              | 1" x 30" (25mm x 762mm)              | 1" x 30" (25mm x 762mm)              |
| Anchor Bolt Projection               | 3-1/4" (83mm)                          | 3-1/4" (83mm)                          | 4" (102mm)                           | 4" (102mm)                           |
| Base Plate Opening for Wireway Entry | 3-3/4" (92mm)                          | 4-3/4" (121mm)                         | 4-5/8" (117mm)                       | 5-5/8" (143mm)                       |
| Base Plate Dimensions                | 10-1/8" sq. x 3/4" thk. (257mm x 19mm) | 10-1/8" sq. x 3/4" thk. (257mm x 19mm) | 10-1/8" sq. x 1" thk. (257mm x 25mm) | 12" sq. x 1-1/8" thk. (305mm x 29mm) |
| Pole Gauge                           | 11                                     | 11                                     | 7                                    | 7                                    |

Note: Base plate illustrations may change without notice. Do not use for setting anchor bolts. Consult factory for the appropriate anchor bolt template.

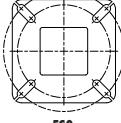
### UNIVERSAL BASEPLATE

4" (102mm) square  
10.5" (267mm) sq.



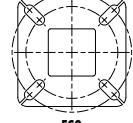
4SQ

5" (127mm) square  
11.125" (283mm) sq.



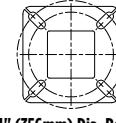
5SQ

5" (127mm) square  
11.75" (298mm) sq.



5SQ

6" (152mm) square  
12-1/2" (318mm) sq.



14" (356mm) Dia. Bolt Circle

| Bolt Circle Designator               | E  | F  | G                                      | H  |
|--------------------------------------|--|--|--|--|
| Bolt Circle                          | Slotted 9"-12"                           | Slotted 10-13"                           | Slotted 10-13"                         | Slotted 11"-14" (279mm-356mm)            |
| Anchor Bolt Size                     | 3/4" x 24" (19mm x 609 mm)               | 3/4" x 24" (19mm x 609 mm)               | 1" x 30" (25mm x 762mm)                | 1" x 30" (25mm x 762mm)                  |
| Anchor Bolt Projection               | 3-1/4" (83 mm)                           | 3-1/4" (83 mm)                           | 4" (102 mm)                            | 4" (102mm)                               |
| Base Plate Opening for Wireway Entry | 3-3/4" (92mm)                            | 4-3/4" (121mm)                           | 4-5/8" (113 mm)                        | 5-5/8" (143mm)                           |
| Base Plate Dimensions                | 10-1/2" sq. x 3/4" thk. (267 mm x 19 mm) | 11-1/8" sq. x 3/4" thk. (283 mm x 19 mm) | 11-3/4" sq. x 1" thk. (298 mm x 25 mm) | 12 1/2" sq. x 1 1/8" thk. (318mm x 29mm) |
| Pole Gauge                           | 11                                       | 11                                       | 7                                      | 7  |

Note: Base plate illustrations may change without notice. Do not use for setting anchor bolts. Consult factory for the appropriate anchor bolt template.

1- Full Galvanized option is 1" x 30" straight headed anchor bolt. Contact factory for questions



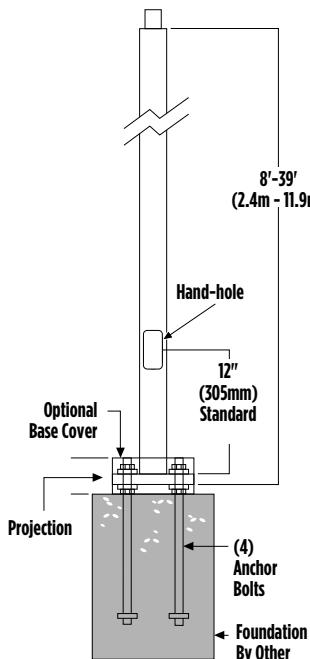
# Steel Poles Square Straight

Have questions? Call us at (800) 436-7800

Type : \_\_\_\_\_

## PRODUCT DIMENSIONS

SOT -  
N=2-3/8" (60mm) O.D. x 4-3/4" (121mm) Tenon

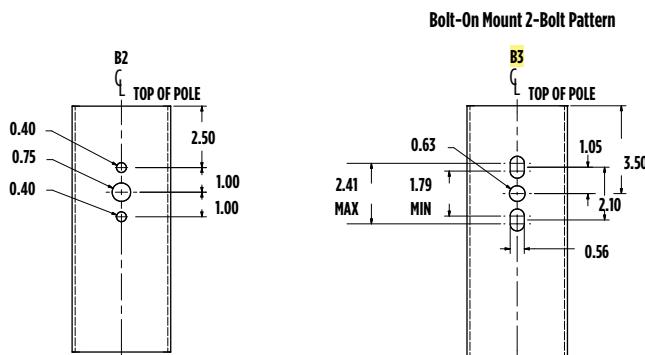


SF -  
Single Flood  
Pole Preparation

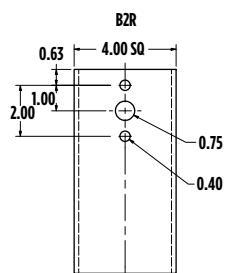


### SHIPPING WEIGHTS

|  |                    |
|--|--------------------|
| 4"(102mm) sq. 11 Ga. is approximately    | 7.50 lbs./ft.      |
| 4"(102mm) sq. 07 Ga. is approximately    | 10.00 lbs./ft.     |
| 5"(127mm) sq. 11 Ga. is approximately    | 9.00 lbs./ft.      |
| 5"(127mm) sq. 07 Ga. is approximately    | 12.50 lbs./ft.     |
| 6"(152mm) sq. 07 Ga. is approximately    | 15.40 lbs./ft.     |
| Anchor Bolts (3/4" x 24") (19mm x 609mm) | 15 lbs. (7kg)/set  |
| Anchor Bolts (1" x 30") (25mm x 762mm)   | 30 lbs. (14kg)/set |



ONLY FOR USE WITH LAL4 PRODUCT  
B2R- Raised 2" low profile drilling pattern



# Steel Poles Square Straight

Have questions? Call us at (800) 436-7800

Type : \_\_\_\_\_

## WIND SPEED

### EPA Information

All LSI Industries' poles are guaranteed to meet the EPA requirements listed. LSI Industries is not responsible if a pole order has a lower EPA rating than the indicated wind-loading zone where the pole will be located.

CAUTION: This guarantee does not apply if the pole/bracket/fixture combination is used to support any other items such as flags, pennants, or signs, which would add stress to the pole. LSI Industries cannot accept responsibility for harm or damage caused in these situations.

NOTE: Pole calculations include a 1.3 gust factor over steady wind velocity. Example: poles designed to withstand 80 MPH steady wind will withstand gusts to 104 MPH. EPAs are for locations 100 miles away from hurricane ocean lines. Consult LSI for other areas. Note: Hurricane ocean lines are the Atlantic and Gulf of Mexico coastal areas. For applications in Florida or Canada, consult factory.

| POLE <sup>1</sup>           | Mtg. Height Length (ft) | Wall Thick (ga) | BOLT CIRCLE |           |                      | EPA     |         |         |         |         |         |         |         |         |
|-----------------------------|-------------------------|-----------------|-------------|-----------|----------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|                             |                         |                 | Designator  | Dia. (in) | Anchor bolt Dia {in} | 110 MPH | 115 MPH | 120 MPH | 130 MPH | 140 MPH | 150 MPH | 160 MPH | 170 MPH | 180 MPH |
| 4" x 11-ga x 12'            | 12                      | 11              | B           | 8" - 11"  | 0.75                 | 13.9    | 12.5    | 11.3    | 9.2     | 7.6     | 6.3     | 5.2     | 4.3     | 3.6     |
| 4" x 11-ga x 14'            | 14                      | 11              | B           | 8" - 11"  | 0.75                 | 10.7    | 9.5     | 8.5     | 6.8     | 5.4     | 4.4     | 3.5     | 2.7     | 2.1     |
| 4" x 11-ga x 16'            | 16                      | 11              | B           | 8" - 11"  | 0.75                 | 8.2     | 7.2     | 6.4     | 4.9     | 3.8     | 2.9     | 2.1     | 1.5     | 1.0     |
| 4" x 11-ga x 18'            | 18                      | 11              | B           | 8" - 11"  | 0.75                 | 6.3     | 5.4     | 4.7     | 3.4     | 2.4     | 1.6     | 1.0     | 0.4     | n/a     |
| 4" x 11-ga x 20'            | 20                      | 11              | B           | 8" - 11"  | 0.75                 | 4.6     | 3.9     | 3.2     | 2.1     | 1.2     | 0.6     | n/a     | n/a     | n/a     |
| 4" x 11-ga x 22'            | 22                      | 11              | B           | 8" - 11"  | 0.75                 | 7.6     | 6.6     | 5.7     | 4.2     | 3.0     | 2.0     | 1.2     | 0.5     | n/a     |
| 4" x 11-ga x 24'            | 24                      | 11              | B           | 8" - 11"  | 0.75                 | 6.0     | 5.1     | 4.3     | 2.9     | 1.8     | 0.9     | n/a     | n/a     | n/a     |
| 4" x 11-ga x 26'            | 26                      | 11              | B           | 8" - 11"  | 0.75                 | 4.6     | 3.7     | 3.0     | 1.7     | 0.7     | n/a     | n/a     | n/a     | n/a     |
| 4" x 7-ga x 14'             | 14                      | 7               | B           | 8" - 11"  | 0.75                 | 18.3    | 16.4    | 14.9    | 12.2    | 10.2    | 8.5     | 7.1     | 5.9     | 5.0     |
| 4" x 7-ga x 16'             | 16                      | 7               | B           | 8" - 11"  | 0.75                 | 14.7    | 13.2    | 11.8    | 9.6     | 7.8     | 6.3     | 5.2     | 4.2     | 3.4     |
| 4" x 7-ga x 18'             | 18                      | 7               | B           | 8" - 11"  | 0.75                 | 11.9    | 10.5    | 9.3     | 7.4     | 5.9     | 4.6     | 3.6     | 2.8     | 2.1     |
| 4" x 7-ga x 20'             | 20                      | 7               | B           | 8" - 11"  | 0.75                 | 9.6     | 8.4     | 7.4     | 5.7     | 4.3     | 3.2     | 2.3     | 1.6     | 0.9     |
| 4" x 7-ga x 22'             | 22                      | 7               | B           | 8" - 11"  | 0.75                 | 7.7     | 6.6     | 5.7     | 4.2     | 3.0     | 2.0     | 1.2     | 0.5     | n/a     |
| 4" x 7-ga x 24'             | 24                      | 7               | B           | 8" - 11"  | 0.75                 | 6.0     | 5.1     | 4.3     | 2.9     | 1.8     | 0.9     | n/a     | n/a     | n/a     |
| 4" x 7-ga x 26'             | 26                      | 7               | B           | 8" - 11"  | 0.75                 | 4.6     | 3.7     | 3.0     | 1.7     | 0.7     | n/a     | n/a     | n/a     | n/a     |
| 4" x 7-ga x 28 <sup>2</sup> | 28                      | 7               | B           | 8" - 11"  | 0.75                 | 3.3     | 2.5     | 1.8     | 0.7     | n/a     | n/a     | n/a     | n/a     | n/a     |
| 4" x 7-ga x 30 <sup>2</sup> | 30                      | 7               | B           | 8" - 11"  | 0.75                 | 2.2     | 1.4     | 0.8     | n/a     | n/a     | n/a     | n/a     | n/a     | n/a     |
| 5" x 11-ga x 14'            | 14                      | 11              | C           | 9" - 11"  | 0.75                 | 17.4    | 15.7    | 14.1    | 11.5    | 9.3     | 7.7     | 6.3     | 5.2     | 4.2     |
| 5" x 11-ga x 16'            | 16                      | 11              | C           | 9" - 11"  | 0.75                 | 13.8    | 12.3    | 10.9    | 8.7     | 6.9     | 5.5     | 4.3     | 3.3     | 2.5     |
| 5" x 11-ga x 18'            | 18                      | 11              | C           | 9" - 11"  | 0.75                 | 10.8    | 9.6     | 8.4     | 6.5     | 4.9     | 3.7     | 2.6     | 1.8     | 1.1     |
| 5" x 11-ga x 20'            | 20                      | 11              | C           | 9" - 11"  | 0.75                 | 8.5     | 7.3     | 6.3     | 4.6     | 3.2     | 2.1     | 1.2     | 0.5     | n/a     |
| 5" x 11-ga x 22'            | 22                      | 11              | C           | 9" - 11"  | 0.75                 | 10.9    | 9.5     | 8.3     | 6.2     | 4.5     | 3.2     | 2.1     | 1.2     | 0.5     |
| 5" x 11-ga x 24'            | 24                      | 11              | C           | 9" - 11"  | 0.75                 | 8.8     | 7.5     | 6.4     | 4.5     | 3.0     | 1.8     | 0.8     | n/a     | n/a     |
| 5" x 11-ga x 26'            | 26                      | 11              | C           | 9" - 11"  | 0.75                 | 6.8     | 5.7     | 4.6     | 3.0     | 1.6     | 0.6     | n/a     | n/a     | n/a     |
| 5" x 11-ga x 28'            | 28                      | 11              | C           | 9" - 11"  | 0.75                 | 5.2     | 4.1     | 3.2     | 1.6     | 0.4     | n/a     | n/a     | n/a     | n/a     |
| 5" x 11-ga x 30'            | 30                      | 11              | C           | 9" - 11"  | 0.75                 | 3.6     | 2.7     | 1.8     | 0.4     | n/a     | n/a     | n/a     | n/a     | n/a     |
| 5" x 7-ga x 20'             | 20                      | 7               | D           | 9" - 11"  | 1.00                 | 21.6    | 19.3    | 17.3    | 14.0    | 11.3    | 9.2     | 7.4     | 6.0     | 4.8     |
| 5" x 7-ga x 22'             | 22                      | 7               | D           | 9" - 11"  | 1.00                 | 20.7    | 18.6    | 16.6    | 13.3    | 10.7    | 8.5     | 6.8     | 5.4     | 4.2     |
| 5" x 7-ga x 24'             | 24                      | 7               | D           | 9" - 11"  | 1.00                 | 17.7    | 15.6    | 13.8    | 10.8    | 8.5     | 6.6     | 5.0     | 3.7     | 2.6     |
| 5" x 7-ga x 26'             | 26                      | 7               | D           | 9" - 11"  | 1.00                 | 14.9    | 13.1    | 11.4    | 8.8     | 6.6     | 4.9     | 3.5     | 2.3     | 1.3     |
| 5" x 7-ga x 28'             | 28                      | 7               | D           | 9" - 11"  | 1.00                 | 12.5    | 10.9    | 9.4     | 6.9     | 4.9     | 3.4     | 2.1     | 1.0     | n/a     |
| 5" x 7-ga x 30'             | 30                      | 7               | D           | 9" - 11"  | 1.00                 | 10.3    | 8.9     | 7.5     | 5.2     | 3.4     | 2.0     | 0.8     | n/a     | n/a     |
| 5" x 7-ga x 35'             | 35                      | 7               | D           | 9" - 11"  | 1.00                 | 6.0     | 4.8     | 3.6     | 1.8     | n/a     | n/a     | n/a     | n/a     | n/a     |
| 6" x 7-ga x 24'             | 24                      | 7               | J           | 12"       | 1.00                 | 18.6    | 16.4    | 14.3    | 11.2    | 8.6     | 6.5     | 4.8     | 3.4     | 2.2     |
| 6" x 7-ga x 26'             | 26                      | 7               | J           | 12"       | 1.00                 | 15.6    | 13.4    | 11.7    | 8.8     | 6.5     | 4.6     | 3.0     | 1.8     | 0.7     |
| 6" x 7-ga x 28'             | 28                      | 7               | J           | 12"       | 1.00                 | 12.9    | 10.9    | 9.3     | 6.7     | 4.6     | 2.8     | 1.5     | n/a     | n/a     |
| 6" x 7-ga x 30'             | 30                      | 7               | J           | 12"       | 1.00                 | 10.4    | 8.8     | 7.3     | 4.8     | 2.9     | 1.3     | n/a     | n/a     | n/a     |
| 6" x 7-ga x 32'             | 32                      | 7               | J           | 12"       | 1.00                 | 8.3     | 6.8     | 5.5     | 3.1     | 1.3     | n/a     | n/a     | n/a     | n/a     |
| 6" x 7-ga x 34'             | 34                      | 7               | J           | 12"       | 1.00                 | 6.5     | 5.0     | 3.7     | 1.6     | n/a     | n/a     | n/a     | n/a     | n/a     |
| 6" x 7-ga x 35'             | 35                      | 7               | J           | 12"       | 1.00                 | 5.5     | 4.2     | 2.9     | 0.9     | n/a     | n/a     | n/a     | n/a     | n/a     |
| 6" x 7-ga x 39'             | 39                      | 7               | J           | 12"       | 1.00                 | 2.3     | 1.0     | n/a     |

# Steel Poles Square Straight

Have questions? Call us at (800) 436-7800

Type : \_\_\_\_\_

## WIND SPEED

| POLE <sup>1</sup> | Mtg. Height Length (ft) | Wall Thick (ga) | BOLT CIRCLE |           |                      | EPA     |         |         |         |         |         |         |         |         |
|-------------------|-------------------------|-----------------|-------------|-----------|----------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|                   |                         |                 | Designator  | Dia. (in) | Anchor Bolt Dia (in) | 110 MPH | 115 MPH | 120 MPH | 130 MPH | 140 MPH | 150 MPH | 160 MPH | 170 MPH | 180 MPH |
| 5" x 11-ga x 14'  | 14                      | 11              | F           | 11"       | 0.75                 | 17.6    | 15.8    | 14.2    | 11.5    | 9.4     | 7.7     | 6.3     | 5.2     | 4.3     |
| 5" x 11-ga x 14'  | 14                      | 11              | F           | 13"       | 0.75                 | 17.6    | 15.8    | 14.2    | 11.5    | 9.4     | 7.7     | 6.3     | 5.2     | 4.3     |
| 5" x 11-ga x 16'  | 16                      | 11              | F           | 11"       | 0.75                 | 13.9    | 12.2    | 11.0    | 8.8     | 7.0     | 5.5     | 4.3     | 3.4     | 2.5     |
| 5" x 11-ga x 16'  | 16                      | 11              | F           | 13"       | 0.75                 | 13.9    | 12.2    | 11.0    | 8.8     | 7.0     | 5.5     | 4.3     | 3.4     | 2.5     |
| 5" x 11-ga x 18'  | 18                      | 11              | F           | 11"       | 0.75                 | 11.0    | 9.6     | 8.4     | 6.5     | 5.0     | 3.7     | 2.7     | 1.8     | 1.1     |
| 5" x 11-ga x 18'  | 18                      | 11              | F           | 13"       | 0.75                 | 11.0    | 9.6     | 8.4     | 6.5     | 5.0     | 3.7     | 2.7     | 1.8     | 1.1     |
| 5" x 11-ga x 20'  | 20                      | 11              | F           | 11"       | 0.75                 | 8.6     | 7.4     | 6.4     | 4.6     | 3.3     | 2.2     | 1.3     | 0.5     | -       |
| 5" x 11-ga x 20'  | 20                      | 11              | F           | 13"       | 0.75                 | 8.6     | 7.4     | 6.4     | 4.6     | 3.3     | 2.2     | 1.3     | 0.5     | -       |
| 5" x 11-ga x 22'  | 22                      | 11              | F           | 11"       | 0.75                 | 12.7    | 11.1    | 9.6     | 7.4     | 5.6     | 4.1     | 3.0     | 2.0     | 1.1     |
| 5" x 11-ga x 22'  | 22                      | 11              | F           | 12"       | 0.75                 | 10.3    | 8.9     | 7.7     | 5.7     | 4.1     | 2.8     | 1.8     | 0.9     | -       |
| 5" x 11-ga x 22'  | 22                      | 11              | F           | 13"       | 0.75                 | 8.6     | 7.4     | 6.4     | 4.6     | 3.1     | 2.0     | 1.1     | -       | -       |
| 5" x 11-ga x 24'  | 24                      | 11              | F           | 11"       | 0.75                 | 10.2    | 8.9     | 7.6     | 5.6     | 4.0     | 2.6     | 1.6     | 0.7     | -       |
| 5" x 11-ga x 24'  | 24                      | 11              | F           | 12"       | 0.75                 | 8.0     | 6.9     | 5.8     | 4.0     | 2.6     | 1.5     | 0.5     | -       | -       |
| 5" x 11-ga x 24'  | 24                      | 11              | F           | 13"       | 0.75                 | 6.7     | 5.5     | 4.6     | 3.0     | 1.7     | 0.7     | -       | -       | -       |
| 5" x 11-ga x 26'  | 26                      | 11              | F           | 11"       | 0.75                 | 8.1     | 6.9     | 5.8     | 4.0     | 2.5     | 1.3     | -       | -       | -       |
| 5" x 11-ga x 26'  | 26                      | 11              | F           | 12"       | 0.75                 | 6.2     | 5.1     | 4.1     | 2.6     | 1.3     | -       | -       | -       | -       |
| 5" x 11-ga x 26'  | 26                      | 11              | F           | 13"       | 0.75                 | 5.0     | 4.0     | 3.1     | 1.6     | 0.5     | -       | -       | -       | -       |
| 5" x 11-ga x 28'  | 28                      | 11              | F           | 11"       | 0.75                 | 6.3     | 5.2     | 4.3     | 2.5     | 1.1     | -       | -       | -       | -       |
| 5" x 11-ga x 28'  | 28                      | 11              | F           | 12"       | 0.75                 | 4.6     | 3.6     | 2.7     | 1.2     | -       | -       | -       | -       | -       |
| 5" x 11-ga x 28'  | 28                      | 11              | F           | 13"       | 0.75                 | 3.4     | 2.5     | 1.7     | -       | -       | -       | -       | -       | -       |
| 5" x 11-ga x 30'  | 30                      | 11              | F           | 11"       | 0.75                 | 4.7     | 3.7     | 2.8     | 1.2     | -       | -       | -       | -       | -       |
| 5" x 11-ga x 30'  | 30                      | 11              | F           | 12"       | 0.75                 | 3.1     | 2.2     | 1.4     | -       | -       | -       | -       | -       | -       |
| 5" x 11-ga x 30'  | 30                      | 11              | F           | 13"       | 0.75                 | 2.0     | 1.2     | 0.5     | -       | -       | -       | -       | -       | -       |
| 5" x 7-ga x 20'   | 20                      | 7               | G           | 11"       | 0.75                 | 19.0    | 17.0    | 15.0    | 12.2    | 9.7     | 7.8     | 6.2     | 5.0     | 3.8     |
| 5" x 7-ga x 20'   | 20                      | 7               | G           | 12"       | 0.75                 | 21.4    | 19.1    | 17.1    | 13.8    | 11.2    | 9.1     | 7.3     | 5.9     | 4.7     |
| 5" x 7-ga x 20'   | 20                      | 7               | G           | 13"       | 0.75                 | 21.4    | 19.2    | 17.2    | 13.9    | 11.3    | 9.2     | 7.4     | 6.0     | 4.8     |
| 5" x 7-ga x 20'   | 20                      | 7               | G           | 11"       | 1                    | 21.7    | 19.4    | 17.4    | 14.0    | 11.4    | 9.3     | 7.5     | 6.0     | 4.8     |
| 5" x 7-ga x 20'   | 20                      | 7               | G           | 13"       | 1                    | 21.7    | 19.4    | 17.4    | 14.0    | 11.4    | 9.3     | 7.5     | 6.0     | 4.8     |
| 5" x 7-ga x 22'   | 22                      | 7               | G           | 11"       | 0.75                 | 16.0    | 14.1    | 12.5    | 9.8     | 7.6     | 5.9     | 4.4     | 3.3     | 2.3     |
| 5" x 7-ga x 22'   | 22                      | 7               | G           | 12"       | 0.75                 | 17.7    | 15.9    | 14.2    | 11.2    | 8.7     | 7.0     | 5.4     | 4.1     | 3.0     |
| 5" x 7-ga x 22'   | 22                      | 7               | G           | 13"       | 0.75                 | 19.9    | 17.3    | 15.6    | 12.6    | 10.0    | 8.0     | 6.3     | 5.0     | 3.8     |
| 5" x 7-ga x 22'   | 22                      | 7               | G           | 11"       | 1                    | 21.0    | 18.7    | 16.7    | 13.4    | 10.6    | 8.5     | 6.8     | 5.4     | 4.2     |
| 5" x 7-ga x 22'   | 22                      | 7               | G           | 12"       | 1                    | 23.4    | 20.6    | 18.4    | 15.0    | 12.2    | 9.9     | 8.0     | 6.4     | 5.1     |
| 5" x 7-ga x 22'   | 22                      | 7               | G           | 13"       | 1                    | 21.3    | 18.8    | 17.0    | 13.7    | 11.0    | 8.8     | 7.0     | 5.6     | 4.3     |
| 5" x 7-ga x 24'   | 24                      | 7               | G           | 11"       | 0.75                 | 13.3    | 11.6    | 10.0    | 7.7     | 5.7     | 4.2     | 2.9     | 1.9     | 1.0     |
| 5" x 7-ga x 24'   | 24                      | 7               | G           | 12"       | 0.75                 | 15.0    | 13.0    | 11.6    | 8.9     | 6.8     | 5.1     | 3.8     | 2.6     | 1.7     |
| 5" x 7-ga x 24'   | 24                      | 7               | G           | 13"       | 0.75                 | 16.6    | 14.6    | 12.9    | 10.2    | 8.0     | 6.1     | 4.6     | 3.3     | 2.3     |
| 5" x 7-ga x 24'   | 24                      | 7               | G           | 11"       | 1                    | 17.5    | 15.7    | 13.9    | 10.9    | 8.6     | 6.7     | 5.0     | 3.7     | 2.7     |
| 5" x 7-ga x 24'   | 24                      | 7               | G           | 12"       | 1                    | 20.0    | 17.4    | 15.4    | 12.3    | 9.9     | 7.8     | 6.0     | 4.7     | 3.5     |
| 5" x 7-ga x 24'   | 24                      | 7               | G           | 13"       | 1                    | 18.1    | 16.0    | 14.2    | 11.0    | 8.7     | 6.7     | 5.3     | 3.9     | 2.8     |
| 5" x 7-ga x 26'   | 26                      | 7               | G           | 11"       | 0.75                 | 10.9    | 9.3     | 8.0     | 5.9     | 4.1     | 2.7     | 1.6     | 0.6     | -       |
| 5" x 7-ga x 26'   | 26                      | 7               | G           | 12"       | 0.75                 | 12.4    | 10.9    | 9.5     | 7.0     | 5.1     | 3.6     | 2.3     | 1.3     | -       |
| 5" x 7-ga x 26'   | 26                      | 7               | G           | 13"       | 0.75                 | 14.0    | 12.3    | 10.7    | 8.1     | 6.0     | 4.4     | 3.1     | 2.0     | 1.0     |
| 5" x 7-ga x 26'   | 26                      | 7               | G           | 11"       | 1                    | 15.0    | 13.2    | 11.5    | 8.8     | 6.7     | 4.9     | 3.5     | 2.3     | 1.3     |

# Steel Poles Square Straight

 Have questions? Call us at (800) 436-7800

Type : \_\_\_\_\_

## WIND SPEED

| POLE <sup>1</sup> | Mtg. Height Length (ft) | Wall Thick (ga) | BOLT CIRCLE |           |                      | EPA     |         |         |         |         |         |         |         |         |
|-------------------|-------------------------|-----------------|-------------|-----------|----------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|                   |                         |                 | Designator  | Dia. (in) | Anchor Bolt Dia (in) | 110 MPH | 115 MPH | 120 MPH | 130 MPH | 140 MPH | 150 MPH | 160 MPH | 170 MPH | 180 MPH |
| 5" x 7-ga x 26'   | 26                      | 7               | G           | 12"       | 1                    | 17.0    | 14.8    | 13.0    | 10.2    | 7.9     | 6.0     | 4.4     | 3.1     | 2.1     |
| 5" x 7-ga x 26'   | 26                      | 7               | G           | 13"       | 1                    | 15.3    | 13.5    | 11.8    | 9.0     | 6.8     | 5.0     | 3.6     | 2.5     | 1.4     |
| 5" x 7-ga x 28'   | 28                      | 7               | G           | 11"       | 0.75                 | 8.9     | 7.4     | 6.3     | 4.3     | 2.7     | 1.4     | -       | -       | -       |
| 5" x 7-ga x 28'   | 28                      | 7               | G           | 12"       | 0.75                 | 10.2    | 8.8     | 7.5     | 5.3     | 3.5     | 2.1     | 1.0     | -       | -       |
| 5" x 7-ga x 28'   | 28                      | 7               | G           | 13"       | 0.75                 | 11.8    | 10.2    | 8.8     | 6.4     | 4.5     | 3.0     | 1.7     | 0.7     | -       |
| 5" x 7-ga x 28'   | 28                      | 7               | G           | 11"       | 1                    | 12.5    | 10.9    | 9.5     | 7.0     | 5.0     | 3.3     | 2.1     | 1.0     | -       |
| 5" x 7-ga x 28'   | 28                      | 7               | G           | 12"       | 1                    | 14.2    | 12.4    | 11.0    | 8.2     | 6.0     | 4.3     | 3.0     | 1.7     | 0.8     |
| 5" x 7-ga x 28'   | 28                      | 7               | G           | 13"       | 1                    | 12.9    | 11.0    | 9.7     | 7.2     | 5.2     | 3.6     | 2.2     | 1.1     | -       |
| 5" x 7-ga x 30'   | 30                      | 7               | G           | 11"       | 0.75                 | 7.0     | 5.8     | 4.7     | 2.8     | 1.3     | -       | -       | -       | -       |
| 5" x 7-ga x 30'   | 30                      | 7               | G           | 12"       | 0.75                 | 8.4     | 7.0     | 5.8     | 3.8     | 2.2     | 0.9     | -       | -       | -       |
| 5" x 7-ga x 30'   | 30                      | 7               | G           | 13"       | 0.75                 | 9.7     | 8.2     | 7.0     | 4.8     | 3.0     | 1.6     | 0.5     | -       | -       |
| 5" x 7-ga x 30'   | 30                      | 7               | G           | 11"       | 1                    | 10.4    | 8.8     | 7.6     | 5.3     | 3.4     | 2.0     | 0.8     | -       | -       |
| 5" x 7-ga x 30'   | 30                      | 7               | G           | 12"       | 1                    | 12.0    | 10.3    | 9.0     | 6.4     | 4.4     | 2.9     | 1.6     | 0.5     | -       |
| 5" x 7-ga x 30'   | 30                      | 7               | G           | 13"       | 1                    | 10.6    | 9.1     | 7.7     | 5.5     | 3.6     | 2.1     | 1.0     | -       | -       |
| 5" x 7-ga x 35'   | 35                      | 7               | G           | 11"       | 0.75                 | 3.2     | 2.2     | 1.2     | -       | -       | -       | -       | -       | -       |
| 5" x 7-ga x 35'   | 35                      | 7               | G           | 12"       | 0.75                 | 4.4     | 3.2     | 2.2     | 0.5     | -       | -       | -       | -       | -       |
| 5" x 7-ga x 35'   | 35                      | 7               | G           | 13"       | 0.75                 | 5.5     | 4.2     | 3.1     | 1.3     | -       | -       | -       | -       | -       |
| 5" x 7-ga x 35'   | 35                      | 7               | G           | 11"       | 1                    | 6.0     | 4.8     | 3.6     | 1.8     | -       | -       | -       | -       | -       |
| 5" x 7-ga x 35'   | 35                      | 7               | G           | 12"       | 1                    | 7.3     | 6.0     | 4.8     | 2.7     | 1.1     | -       | -       | -       | -       |
| 5" x 7-ga x 35'   | 35                      | 7               | G           | 13"       | 1                    | 6.3     | 5.0     | 3.8     | 1.9     | -       | -       | -       | -       | -       |
| 6" x 7-ga x 24'   | 24                      | 7               | H           | 11"       | 1                    | 16.5    | 14.4    | 12.6    | 9.6     | 7.2     | 5.3     | 3.8     | 2.5     | 1.4     |
| 6" x 7-ga x 24'   | 24                      | 7               | H           | 12-1/2"   | 1                    | 19.8    | 17.5    | 15.4    | 12.0    | 9.2     | 7.0     | 5.3     | 3.8     | 2.7     |
| 6" x 7-ga x 24'   | 24                      | 7               | H           | 14"       | 1                    | 23.0    | 20.5    | 18.0    | 14.3    | 11.2    | 8.9     | 6.9     | 5.3     | 3.8     |
| 6" x 7-ga x 26'   | 26                      | 7               | H           | 11"       | 1                    | 13.7    | 11.8    | 10.2    | 7.5     | 5.3     | 3.6     | 2.1     | 1.0     | -       |
| 6" x 7-ga x 26'   | 26                      | 7               | H           | 12-1/2"   | 1                    | 16.5    | 14.6    | 12.6    | 9.6     | 7.0     | 5.2     | 3.6     | 2.2     | 1.1     |
| 6" x 7-ga x 26'   | 26                      | 7               | H           | 14"       | 1                    | 19.6    | 17.3    | 15.2    | 11.7    | 8.9     | 6.7     | 5.0     | 3.5     | 2.2     |
| 6" x 7-ga x 28'   | 28                      | 7               | H           | 11"       | 1                    | 11.0    | 9.3     | 7.8     | 5.5     | 3.5     | 1.9     | 0.6     | -       | -       |
| 6" x 7-ga x 28'   | 28                      | 7               | H           | 12-1/2"   | 1                    | 13.8    | 12.0    | 10.2    | 7.5     | 5.2     | 3.4     | 1.9     | 0.7     | -       |
| 6" x 7-ga x 28'   | 28                      | 7               | H           | 14"       | 1                    | 16.4    | 14.5    | 12.5    | 9.4     | 6.9     | 4.7     | 3.2     | 1.8     | 0.7     |
| 6" x 7-ga x 30'   | 30                      | 7               | H           | 11"       | 1                    | 9.0     | 7.3     | 6.0     | 3.6     | 1.9     | 0.5     | -       | -       | -       |
| 6" x 7-ga x 30'   | 30                      | 7               | H           | 12-1/2"   | 1                    | 11.4    | 9.6     | 8.0     | 5.5     | 3.4     | 1.7     | -       | -       | -       |
| 6" x 7-ga x 30'   | 30                      | 7               | H           | 14"       | 1                    | 14.0    | 12.0    | 10.0    | 7.2     | 5.0     | 3.2     | 1.6     | -       | -       |
| 6" x 7-ga x 32'   | 32                      | 7               | H           | 11"       | 1                    | 7.0     | 5.5     | 4.2     | 2.0     | -       | -       | -       | -       | -       |
| 6" x 7-ga x 32'   | 32                      | 7               | H           | 12-1/2"   | 1                    | 9.2     | 7.6     | 6.0     | 3.8     | 1.8     | -       | -       | -       | -       |
| 6" x 7-ga x 32'   | 32                      | 7               | H           | 14"       | 1                    | 11.4    | 9.7     | 8.0     | 5.4     | 3.2     | 1.6     | -       | -       | -       |
| 6" x 7-ga x 34'   | 34                      | 7               | H           | 11"       | 1                    | 5.1     | 3.7     | 2.5     | 0.6     | -       | -       | -       | -       | -       |
| 6" x 7-ga x 34'   | 34                      | 7               | H           | 12-1/2"   | 1                    | 7.2     | 5.6     | 4.4     | 2.2     | -       | -       | -       | -       | -       |
| 6" x 7-ga x 34'   | 34                      | 7               | H           | 14"       | 1                    | 9.3     | 7.6     | 6.2     | 3.6     | 1.7     | -       | -       | -       | -       |
| 6" x 7-ga x 35'   | 35                      | 7               | H           | 11"       | 1                    | 4.2     | 3.0     | 1.8     | -       | -       | -       | -       | -       | -       |
| 6" x 7-ga x 35'   | 35                      | 7               | H           | 12-1/2"   | 1                    | 6.2     | 4.8     | 3.6     | 1.4     | -       | -       | -       | -       | -       |
| 6" x 7-ga x 35'   | 35                      | 7               | H           | 14"       | 1                    | 8.2     | 6.6     | 5.2     | 2.9     | 1.0     | -       | -       | -       | -       |
| 6" x 7-ga x 39'   | 39                      | 7               | H           | 11"       | 1                    | 1.0     | -       | -       | -       | -       | -       | -       | -       | -       |
| 6" x 7-ga x 39'   | 39                      | 7               | H           | 12-1/2"   | 1                    | 3.0     | 1.6     | 0.5     | -       | -       | -       | -       | -       | -       |
| 6" x 7-ga x 39'   | 39                      | 7               | H           | 14"       | 1                    | 4.6     | 3.3     | 2.0     | -       | -       | -       | -       | -       | -       |





**Valley Bell Enterprises, LLC**  
101 E. Cherokee St.  
Jacksonville, TX 75766  
Phone (903) 586-1524  
Fax (903) 586-9644

October 6, 2025

City of Rockwall  
Attn: Planning Department  
385 S. Goliad  
Rockwall, Texas 75087  
**Via Hand Delivery**

RE: Variance Request Letter for Proposed Taco Bell at Creekside Commons in South Rockwall

To Whom it May Concern:

Valley Bell Enterprises, LLC (“VBE”) proposes to construct a Taco Bell with a drive through to be located on a portion of Lot 18 in the Creekside Commons Addition in south Rockwall. The property is approximately 0.936 acres. VBE will develop and then lease the property to Southern Multifoods, LLC, a Taco Bell franchisee with 121 locations in Texas, including the restaurant locations in Lavon, Royse City, and Fate. Southern Multifoods, LLC has also operated the Taco Bell on Ridge Road in Rockwall for over twenty years and wishes to open a second location in Rockwall to serve more members of the community. Drew Durrett is the controlling manager of both VBE and Southern Multifoods, LLC.

In connection with the Planning and Zoning Commission hearing on September 30, 2025, please find enclosed the following information:

1. Site Plan
2. Landscape Plan
3. Photometric Plan
4. Lighting Cut Sheets
5. Building Elevations Plans
6. Material Sample Board

It is VBE’s intention to satisfy all the City’s ordinances and also match the building materials used by McDonald’s and 7-Eleven currently operating in the Creekside Commons development. However, VBE recognizes that the Taco Bell building and site plan do not meet the City’s ordinances as follows: (i) the primary façade does not have a secondary entry or architectural element; (ii) the secondary façade entry / architectural element width is less than three feet; and (iii) the site plan is two parking spaces less than the minimum required due to the patio seating.

As a result, VBE is respectfully requesting a variance to these ordinances and is proposing the following compensatory measures:

1. Roof ladder and hatch will be located internally and invisible from public view.
2. The front / primary public right of way elevation consists of 48% stone.
3. All four elevations consist of more than City minimum 90% masonry requirement.
4. Projection length of entry elements on front and side elevations exceeds minimum required.
5. Extra elements (Pilasters) added to side entry elevation, pre-pay window on drive-thru elevation, and rear building corner
6. Provide a 25' landscape buffer along FM 549 (exceeding the 10' required landscape buffer) to comply with staff's recommendation to provide sufficient planting space outside of the existing utility easements.

Thank you for your consideration, and we look forward to discussing our project further with the City. Should you have any questions or need any additional information, please do not hesitate to contact me at 903-589-2005.

Regards,

A handwritten signature in black ink, appearing to read "Michael A. Stansberry".

Michael A. Stansberry  
Director of Development, General Counsel

MAS

Enclosures



DATE: December 5, 2025

TO: Keaton Mai  
The Dimension Group  
10755 Sandhill Road  
Dallas, TX 75238

CC: Michael Hampton  
Creekside Commons Crossing LP  
10755 Sandhill Road  
Dallas, TX 75238

FROM: Henry Lee, AICP  
City of Rockwall Planning and Zoning Department  
385 S. Goliad Street  
Rockwall, TX 75087

SUBJECT: SP2025-039; *Site Plan for Taco Bell*

Keaton Mai,

This letter serves to notify you that the above referenced case (*i.e. Site Plan*) that you submitted for consideration by the City of Rockwall was approved by the Planning and Zoning Commission on October 14, 2025. The following is a record of all recommendations, voting records:

Conditions of Approval:

- (1) All staff comments provided by the Planning, Engineering and Fire Department must be addressed prior to the submittal of engineering plans; and,
- (2) Any construction resulting from the approval of this *Site Plan* shall conform to the requirements set forth by the Unified Development Code (UDC), the International Building Code (IBC), the Rockwall Municipal Code of Ordinances, city adopted engineering and fire codes and with all other applicable regulatory requirements administered and/or enforced by the state and federal government.

Planning and Zoning Commission

On October 14, 2025, the Planning and Zoning Commission approved a motion to approve the site plan by a vote of 7-0.

Should you have any questions or concerns regarding your site plan case, please feel free to contact me at (972) 772-6434.

Sincerely,

Henry Lee, AICP, Senior Planner  
City of Rockwall Planning and Zoning Department