

# AGENDA



## ARCHITECTURAL REVIEW BOARD MEETING

CITY HALL, 385 SOUTH GOLIAD STREET, ROCKWALL, TEXAS

SEPTEMBER 12, 2023 IN THE CITY COUNCIL CONFERENCE ROOM AT 5:00 PM

NOTES ABOUT PUBLIC PARTICIPATION = *RED*

(I) CALL TO ORDER

(II) OPEN FORUM

*This is a time for anyone to address the Architectural Review Board (ARB) on any topic. Per the policies of the City of Rockwall, public comments are limited to three (3) minutes out of respect for the time of other citizens. On topics raised during the OPEN FORUM, please know that the Architectural Review Board (ARB) is not permitted to respond to your comments during the meeting per the Texas Open Meetings Act.*

(III) ACTION AGENDA

(1) **SP2023-030 (HENRY LEE)**

Discuss and consider a request by Lynn Rowland of Claymoore Engineering on behalf of Clay Cooley of 1540 East IH-30 Rockwall, LLC for the approval of a Site Plan for the expansion of an existing *Motor Vehicle Dealership* (i.e. *Clay Cooley Hyundai*) being a 7.17-acre tract of land identified as Lot 2, Block 1, Rockwall Recreation Addition, City of Rockwall, Rockwall County, Texas, zoned Light Industrial (LI) District, situated within the IH-30 Overlay (IH-30 OV) District, addressed as 1540 E. IH-30, and take any action necessary.

(IV) ADJOURNMENT

The City of Rockwall Planning and Zoning Commission reserves the right to adjourn into executive session at any time to discuss any matters listed on the agenda above, as authorized by Texas Government Code §551.071 (Consultation with City Attorney).

This facility is wheelchair accessible and accessible parking spaces are available. Request for accommodations or interpretive services must be made 48 hours prior to this meeting. Please contact the City Secretary's Office at (972) 772-6406 for further information.

I, Melanie Zavala, Planning and Zoning Coordinator for the City of Rockwall, Texas, do hereby certify that this Agenda was posted at City Hall, in a place readily accessible to the general public at all times, on September 8, 2023 prior to 5:00 PM, and remained so posted for at least 72 continuous hours preceding the scheduled time of said meeting.



# 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:** September 12, 2023  
**APPLICANT:** Lynn Rowland; *Claymoore Engineering*  
**CASE NUMBER:** SP2023-030; *Site Plan for 1540 E. IH-30 (Clay Cooley)*

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### SUMMARY

Discuss and consider a request by Lynn Rowland of Claymoore Engineering on behalf of Clay Cooley of 1540 East IH-30 Rockwall, LLC for the approval of a Site Plan for the expansion of an existing *Motor Vehicle Dealership* (i.e. *Clay Cooley Hyundai*) being a 7.17-acre tract of land identified as Lot 2, Block 1, Rockwall Recreation Addition, City of Rockwall, Rockwall County, Texas, zoned Light Industrial (LI) District, situated within the IH-30 Overlay (IH-30 OV) District, addressed as 1540 E. IH-30, and take any action necessary.

### BACKGROUND

The subject property was annexed on December 3, 1985 by *Ordinance No. 85-69 (Case No. A1985-002)*. At the time of annexation, the subject property was zoned Agricultural (AG) District. The subject property remained zoned Agricultural (AG) District until June 6, 2005 when the City Council approved *Ordinance No. 05-25 (Case No. Z2005-019)* changing the zoning to a Light Industrial (LI) District. The building on the subject property was constructed as a house of worship (i.e. *Church of Christ*) in 1990 and was remodeled in 2012-2013 after the City Council approved *Ordinance No. 12-11 (Case No. Z2012-005)* -- on June 18, 2012 -- allowing a *New Motor Vehicle Dealership for Cars and Light Trucks* on property. The changes to the exterior of the building were approved by site plan under *Case No. SP2012-010* on June 12, 2012.

On January 14, 2013, the then owner of the property applied for a sign variance to [1] allow two (2) pole signs along the IH-30 frontage road (i.e. a 40-foot tall sign with 400 SF of sign area and a 50-foot tall sign with 600 SF of sign area), [2] to have the 40-foot tall pole sign situated one (1) foot from the property line, [3] allow a 600 SF electronic message display, and [4] to have a 16-foot tall by 16-foot wide (i.e. 256 SF) wall sign. At the time, the code allowed one (1) pole sign a maximum of 30-foot tall and 167 SF in size to be situated on a property as long as it was setback a minimum of ten (10) feet from all property lines. In addition, wall signs were permitted to be a maximum of six (6) feet tall and six (6) feet wide. This request was approved by the City Council on January 22, 2013 and the permits for these signs (*Case No.'s SGN2013-015 & SGN2013-0017*) were issued on February 7, 2013.

In 2017, the current owner (i.e. *Clay Cooley Hyundai*) purchased the property. In 2021, staff engaged the property owner about building a metal fence without a permit around an area being used for outside storage. At this time, outside storage was not permitted on the subject property. In addition, automotive work was being done on vehicles in this unenclosed area, which is expressly prohibited by the Unified Development Code (UDC) and the Specific Use Permit (SUP) that was in effect at the time. On January 3, 2022, a Specific Use Permit (SUP) [*Case No. Z2021-049; Ordinance No. 22-02*] was approved by City Council allowing the expansion of the *New Motor Vehicle Dealership*, and adding the *Minor Automotive Repair Garage, Car Wash, and Outside Storage* land uses to the subject property. On February 15, 2022, the Planning and Zoning Commission approved a site plan [*Case No. SP2022-003*] allowing the expansion of the *New Motor Vehicle Dealership* and adding the two (3) accessory uses (i.e. a *Car Wash, Outside Storage, and a Minor Auto Repair Garage*) in compliance with the approved Specific Use Permit (SUP) [*Ordinance No. 22-02*].

Recently, the applicant approached staff about increasing the size of the proposed expansion of the *New Motor Vehicle Dealership* and changing the proposed *Minor Automotive Repair Garage* to a *Major Automotive Repair Garage*. Staff explained to the applicant that since this would constitute a major change to the approved conceptual site plan and building elevations and the land uses permitted in the approved Specific Use Permit (SUP), the current Specific Use Permit (SUP)

would need to be superseded with a new Specific Use Permit (SUP). On September 5, 2023, the City Council approved the amended Specific Use Permit (SUP) to allow for further expansion of the existing *New Motor Vehicle Dealership*, and changing the proposed accessory land use from a *Minor Automotive Repair Garage* to *Major Automotive Repair Garage*.

## **PURPOSE**

The applicant -- *Lynn Rowland of Claymoore Engineering* -- is requesting to amend the previously approved Site Plan to allow for the expansion of an existing *New Motor Vehicle Dealership for Cars and Light Trucks*.

## **ADJACENT LAND USES AND ACCESS**

The subject property is addressed as 1540 E. IH-30 and is currently being used as a *Motor Vehicle Dealership (i.e. Clay Cooley Hyundai of Rockwall)*. The land uses adjacent to the subject property are as follows:

North: Directly north of the subject property are the eastbound frontage roads for IH-30, followed by the main lanes for IH-30, and the westbound frontage roads. Beyond this are three (3) parcels of land currently occupied by an appliance store (*i.e. North Texas Appliance*), a house of worship (*i.e. Landmark Fellowship Church*), and a multi-tenant facility consisting of two (2) metal buildings. All of these properties are zoned Light Industrial (LI) District.

South: Directly south of the subject property is a dedicated 60-foot right-of-way followed by a 2.40-acre parcel of vacant land (*i.e. Lot 1, Block 2, Rockwall Recreational Addition*) zoned Light Industrial (LI) District. South of this parcel of land is a 21.684-acre tract of vacant land (*i.e. Tract 4-09 of the N. M. Ballard Survey, Abstract No. 24*) zoned Light Industrial (LI) District.

East: Directly east of the subject property is a *Motor Vehicle Dealership (i.e. Rockwall Honda)*, which is situated on an 8.686-acre parcel of land (*i.e. Lot 1, Block 1, Honda of Rockwall Addition*) that is zoned Commercial (C) District. Beyond this are two (2) vacant tracts of land (*i.e. Tract 2 of the J. Lockhart Survey, Abstract No. 134 and Tract 3 of the J. M. Allen Survey, Abstract No. 2*) that are zoned Commercial (C) District.

West: Directly west of the subject property is Commerce Street, which is identified as a *Minor Collector* on the Master Thoroughfare Plan contained in the OURHometown Vision 2040 Comprehensive Plan. Beyond this is an overflow sales/inventory storage lot for the motor vehicle dealership operating on the subject property (*i.e. Clay Cooley Hyundai of Rockwall*). This property is zoned Light Industrial (LI) District and has a Specific Use Permit (SUP) for a *New Motor Vehicle Dealership (i.e. S-189; Ordinance No. 18-22)*. Beyond this are two (2) metal buildings (*i.e. Rockwall Utility Trailers, M & P Concrete, Living Earth Rockwall, and Elliott Electric Supply*) on one (1) tract of land (*i.e. Tract 4-4 of the N. M. Ballard Survey, Abstract No. 24*) and one (1) parcel of land (*i.e. Lot 1, Block A, Lane Business Park Addition*). These properties are zoned Planned Development District 31 (PD-31) for limited Heavy Commercial (HC) District land uses and Planned Development District 26 (PD-26) for limited Light Industrial (LI) District land uses.

## **DENSITY AND DIMENSIONAL REQUIREMENTS**

According to Section 01, *Land Use Schedule*, of Article 04, *Permissible Uses*, of the Unified Development Code (UDC), a *New Motor Vehicle Dealership for Cars and Light Trucks* requires a Specific Use Permit (SUP) in a Light Industrial (LI) District. With regard to the accessory land uses, according to Section 01, *Land Use Schedule*, of Article 04, *Permissible Uses*, of the Unified Development Code (UDC), a *Major Automotive Repair Garage* requires a Specific Use Permit (SUP) in a Light Industrial (LI) District, however this land use was previously approved via *Case No. Z2023-022 [Ordinance No. 23-44; S-310]*. In addition, according to Section 01, *Land Use Schedule*, of Article 04, *Permissible Uses*, of the Unified Development Code (UDC), a *Full-Service Car Wash* is permitted with conditions in a Light Industrial (LI) District. The submitted site plan, landscape plan, photometric plan, and building elevations generally conform to the technical requirements contained within *Ordinance No. 23-44* and the Unified Development Code (UDC) for a property located within a Light Industrial (LI) District with the exception of the variances and exceptions listed in the *Variances and Exceptions Requested by the Applicant* section of this memo. A summary of the density and dimensional requirements for the subject property are as follows:

<i>Ordinance Provisions</i>	<i>Zoning District Standards</i>	<i>Conformance to the Standards</i>
<i>Minimum Lot Area</i>	<i>12,500 SF</i>	<i>X=7.17-acres; In Conformance</i>
<i>Minimum Lot frontage</i>	<i>100-Feet</i>	<i>X= 282.93-feet; In Conformance</i>
<i>Minimum Lot Depth</i>	<i>125-Feet</i>	<i>X=682.10-feet; In Conformance</i>
<i>Minimum Front Yard Setback</i>	<i>25-Feet</i>	<i>X&gt;25-feet; In Conformance</i>
<i>Minimum Rear Yard Setback</i>	<i>20-Feet</i>	<i>X&gt;20-feet; In Conformance</i>
<i>Minimum Side Yard Setback</i>	<i>15-Feet</i>	<i>X&gt;15-feet; In Conformance</i>
<i>Maximum Building Height</i>	<i>60-Feet</i>	<i>X&lt;60-feet; In Conformance</i>
<i>Max Building/Lot Coverage</i>	<i>60%</i>	<i>X=0.07%; In Conformance</i>
<i>Minimum Number of Parking Spaces</i>	<i>Dealership: Sales Floor: 16 Office: 5 Carwash: 4 Major Auto Repair Garage: 16 Total Required: 41</i>	<i>X=59; In Conformance</i>
<i>Minimum Landscaping Percentage</i>	<i>15%</i>	<i>25%; In Conformance</i>
<i>Maximum Impervious Coverage</i>	<i>95%</i>	<i>x&lt;90%; In Conformance</i>
<i>Carwash Setback</i>	<i>50-Feet</i>	<i>X&gt;50-feet; In Conformance</i>

**TREESCAPE PLAN**

No trees are being removed from the subject property for the proposed scope of work, therefore no treescape plan is required.

**CONFORMANCE WITH THE CITY’S CODES**

The subject property is currently legally nonconforming as it exists today; however, the submitted proposed exterior modifications to the existing building and the proposed site improvements will bring the subject property closer into conformance with the technical requirements contained within the Unified Development Code (UDC) for a property located within a Light Industrial (LI) District and the IH-30 Overlay (IH-30 OV) District. According to Subsection 06.06, *IH-30 Overlay (IH-30 OV) District*, of Article 05, *District Development Standards*, of the Unified Development Code (UDC), the IH-30 Overlay (IH-30 OV) District should provide consistent development with “...the most efficient and aesthetically pleasing appearance of the frontage, which serves as the initial impression to those visiting and passing through the City of Rockwall.” The proposed amended site plan appears to meet the intended purpose of the IH-30 Overlay (IH-30 OV) District as set forth by the Unified Development Code (UDC). Staff should also note that the applicant’s request is consistent with the Specific Use Permit (SUP) [Ordinance No. 22-02], which was approved on January 3, 2022 by the City Council.

**VARIANCES AND EXCEPTIONS BY THE APPLICANT**

Staff should note that the following variances were approved by the Planning and Zoning Commission and City Council with Case No. Z2023-022 [i.e. S-310]:

- (1) Cementitious Materials. According to Article 05, *General Overlay District Development Standards*, of the Unified Development Code (UDC), “(t)he use of cementitious materials (e.g. stucco) shall be limited to 50.00% of the building’s exterior façade; however, stucco shall not be used within the first four (4) feet of grade on a building’s façade.” In this case, the applicant requested to use primarily stucco on all the building’s facades but has incorporated brick and stone accents which is typical of industrial buildings.
- (2) Stone. According to Article 05, *General Overlay District Development Standards*, of the Unified Development Code (UDC), “(a) minimum of 20% natural or quarried stone is required on all building façades.” In this case, the d building elevations for the main structure did not incorporate any stone, but the applicant did provide at least 12.00% stone on the proposed *Major Auto Repair Garage* and the *Car Wash*.
- (3) Four (4) Sided Architecture. According to Article 05, *General Overlay District Development Standards*, of the Unified Development Code (UDC), “(a)ll buildings shall be architecturally finished on all four (4) sides utilizing the same materials, detailing, articulation and features. In addition, a minimum of one (1) row of trees (i.e. four [4] or more accent or canopy trees) shall be planted along perimeter of the subject property to the rear of the building.” In this case, the building



elevations did not meet the articulation standards for all four (4) facades of all buildings proposed and there is not an additional row of trees proposed at the back of the property.

- (4) Screening. According to Subsection 05.02(A), *Landscape and Fence Standards*, of the Unified Development Code (UDC), "(o)ff-street loading docks and outside storage areas shall be screened from all public streets, open space, adjacent properties and any residential zoning districts or residentially used properties that abut or are directly across a public street or alley from the loading dock or outside storage area in accordance with the requirements of Subsection 02.03 (H2) of Article 08, *Landscape and Screening*, of the UDC." In this case, the applicant requested not to screen the bay doors of the *Major Auto Repair Garage*.
- (5) Garage Door Orientation. According to Article 04, *Permissible Uses*, of the Unified Development Code (UDC), "(g)arage doors shall not face a public right-of-way, park or open space, or residentially zoned or used property." In this case, the building elevations and concept plan showed the garage doors facing on to Commerce Street.

In addition to these variances staff has identified one (1) additional exception not accounted for in *Case No. Z2023-022 [i.e. S-310]*:

- (1) Roof Design Standards. According to Subsection 04.01(A)(1), Article 05, *District Development Standards*, of the Unified Development Code (UDC), "(a)ll structures shall have the option of being constructed with either a pitched (minimum of a 6:12 roof pitch), parapet, or mansard roof system as long as the roof system is enclosed on all sides." In this case, the applicant is requesting a roof pitch that is less than a 6:12 pitch. *This will require approval of 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 an exception and/or variance 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 applicants provide compensatory measures that directly offset the requested exceptions and variances. In this case, as compensatory measures, the applicant is proposing: [1] additional projecting elements on the front elevation of the *Major Auto Repair Garage*, [2] varied roof heights, [3] an additional canopy on the front elevation, [4] an additional articulated cornice at the top of the parapet wall, [5] addition of a brick soldier course separating the stucco from stone finish, [6] included parapet walls on all four (4) elevations to provide additional screening of the roof, [7] increased shrub size in three-tiered screening to 7 gallons, and [8] increased all canopy trees to five (5) inch caliper. Staff should note that of the listed compensatory measures, #'s 1, 2, 3, 4, & 6 are all associated with the increased design requirements of the *General Overlay District Standards*, and cannot be considered compensatory measures; however, the remaining compensatory measures do appear to off-set the previously approved variances and exceptions. With this being said, requests for exceptions and variances are discretionary decisions for the Planning and Zoning Commission. Staff should note that a supermajority vote (*e.g. six [6] out of the seven [7] commissioners*) -- *with a minimum of four (4) votes in the affirmative* -- is required for the approval of an exception.

## **STAFF ANALYSIS**

The proposed building was originally converted from an existing *House of Worship*, and as a result many aspects of the site are considered to be legally non-conforming. The applicant's current request does increase the non-conformities existing on the site and does not conform to many of the standards of the *General Overlay District Requirements* and the *Conditional Land Use Standards* for the *Major Automotive Repair Garage* and *Outside Storage* land uses. Staff should point out that some of the variances listed in the above sections relating to the design standards associated with the existing buildings were granted through the recent Specific Use Permit (SUP) request, and the Planning and Zoning Commission is really only considering the exception to the roof pitch as part of this request.

## **CONDITIONS OF APPROVAL**

If the Planning and Zoning Commission chooses to approve the applicant's request for a Site Plan for the expansion of an existing *Motor Vehicle Dealership*, then staff would propose the following conditions of approval:

- (1) All proposed compensatory measures shall be required to be installed and inspected prior to the issuance of a Certificate of Occupancy (CO).
- (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 1540 I-30 Rockwall, Tx

SUBDIVISION Rockwall Recreational Addition

LOT 1&2 BLOCK 1

GENERAL LOCATION IH30 & Clay Cooley Drive

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

CURRENT ZONING F1

CURRENT USE Auto Deal

PROPOSED ZONING

PROPOSED USE Auto Dealer

ACREAGE 7.17

LOTS [CURRENT]

LOTS [PROPOSED]

- 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]

OWNER 1540 East IH 30 Rockwall LLC

APPLICANT ClayMoore Engineering

CONTACT PERSON Chase Cooley

CONTACT PERSON Lynn Rowland

ADDRESS PO Box 570809

ADDRESS 1903 Central Drive Suite 406

CITY, STATE & ZIP Dallas, Tx 75357

CITY, STATE & ZIP Bedford, Tx

PHONE 214.597.8697

PHONE 817.281.0572

E-MAIL

E-MAIL Lynn@claymooreeng.com

### NOTARY VERIFICATION [REQUIRED]

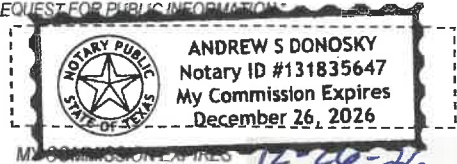
BEFORE ME, THE UNDERSIGNED AUTHORITY, ON THIS DAY PERSONALLY APPEARED Chase Cooley [OWNER] THE UNDERSIGNED, WHO STATED THE INFORMATION ON THIS APPLICATION TO BE TRUE AND CERTIFIED THE FOLLOWING:

"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 \$ 180 TO COVER THE COST OF THIS APPLICATION, HAS BEEN PAID TO THE CITY OF ROCKWALL ON THIS THE 18th DAY OF August 2023 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."

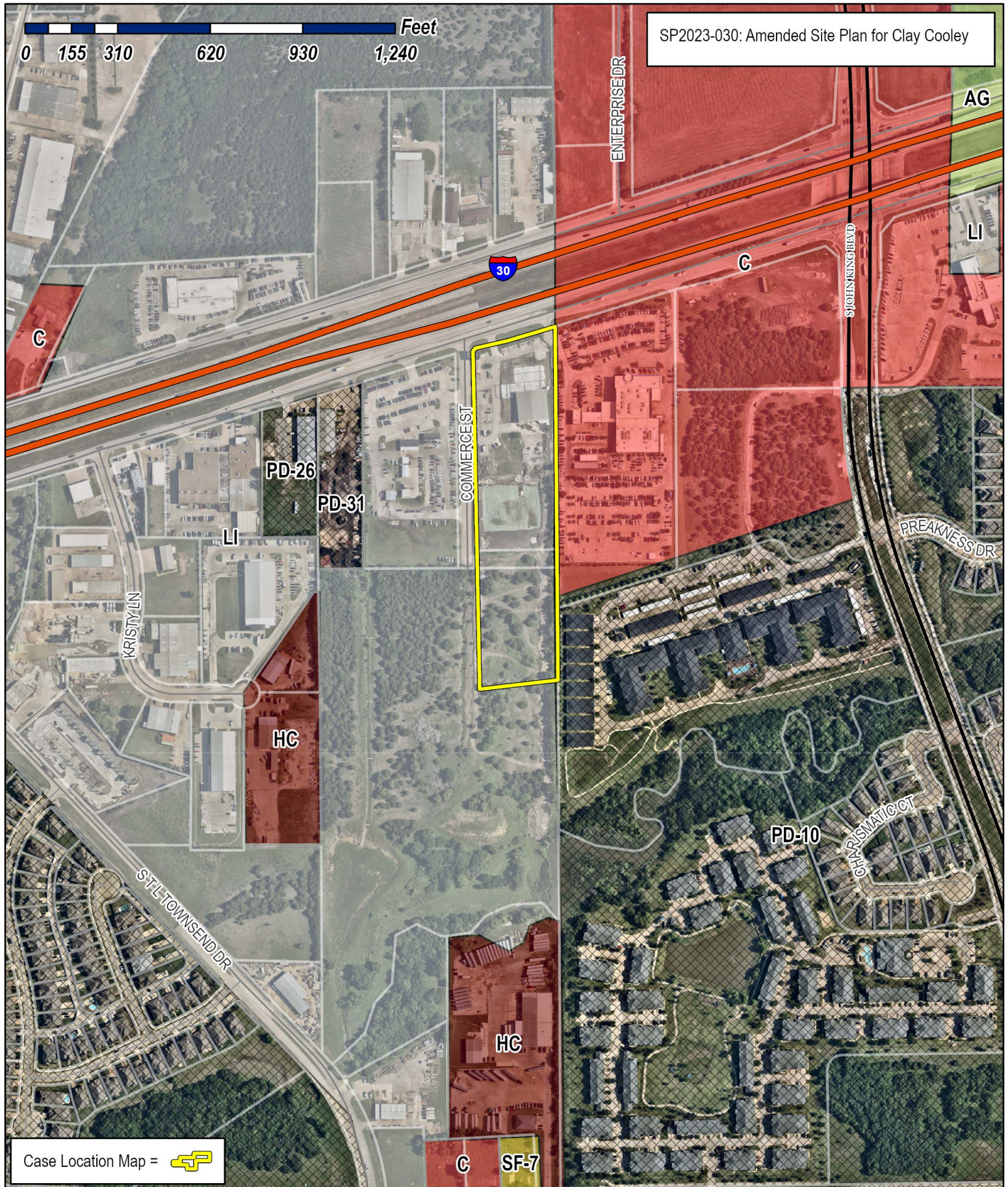
GIVEN UNDER MY HAND AND SEAL OF OFFICE ON THIS THE 18 DAY OF August 2023

OWNER'S SIGNATURE

NOTARY PUBLIC IN AND FOR THE STATE OF TEXAS







SP2023-030: Amended Site Plan for Clay Cooley

0 155 310 620 930 1,240 Feet

Case Location Map =



# City of Rockwall

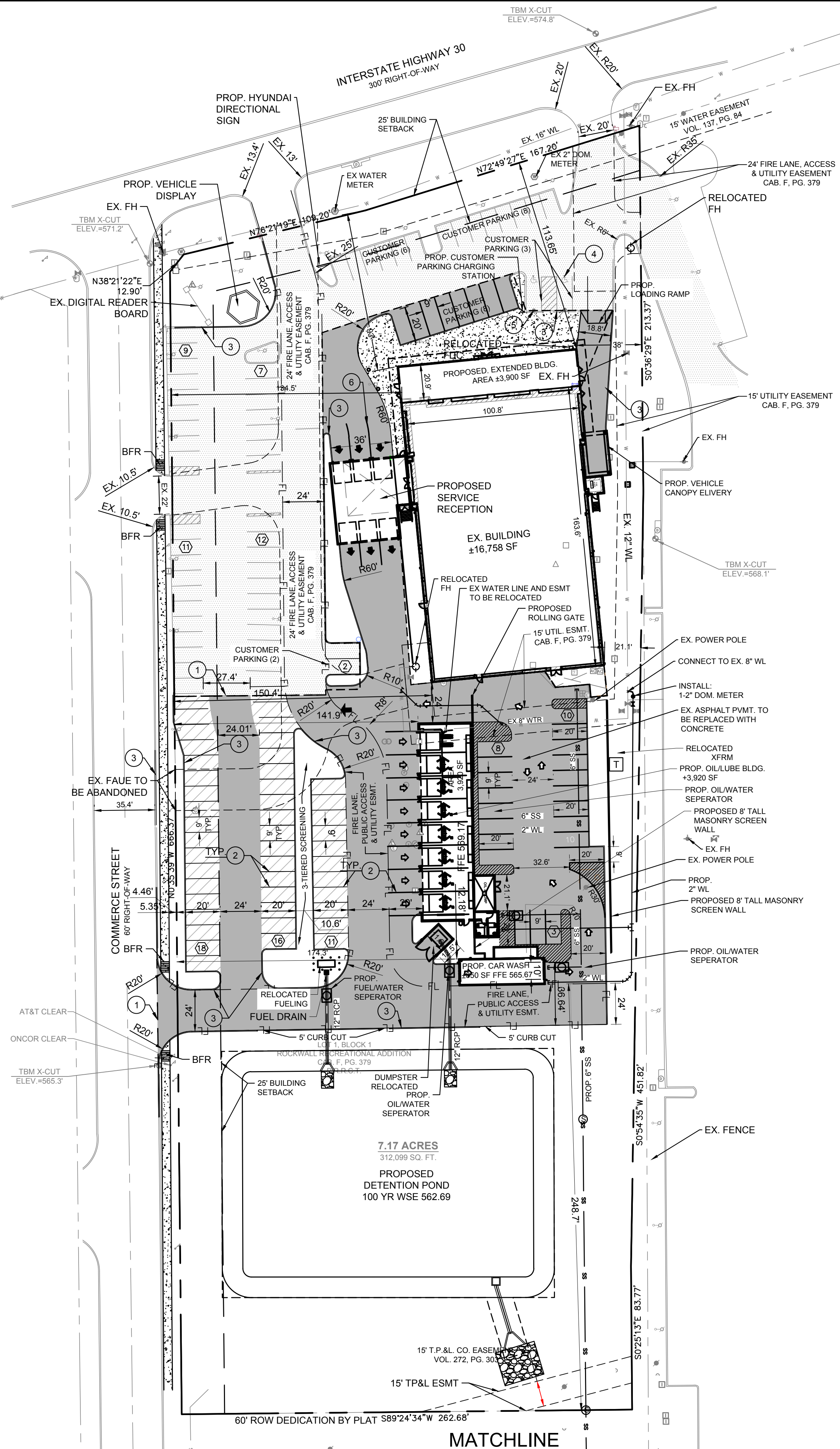
Planning & Zoning Department  
 385 S. Goliad Street  
 Rockwall, Texas 75087  
 (P): (972) 771-7745  
 (W): www.rockwall.com

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.

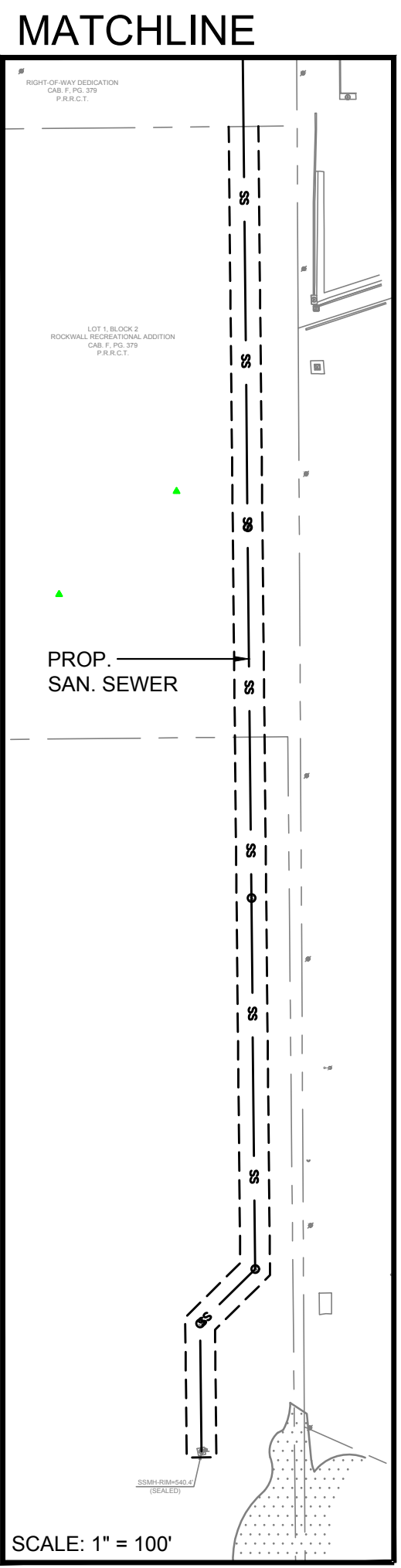




PLOTTED BY: LYNN ROWLAND  
 PLOT DATE: 09/15/2023 4:40 PM  
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 LAST SAVED: 9/15/2023 11:28 PM



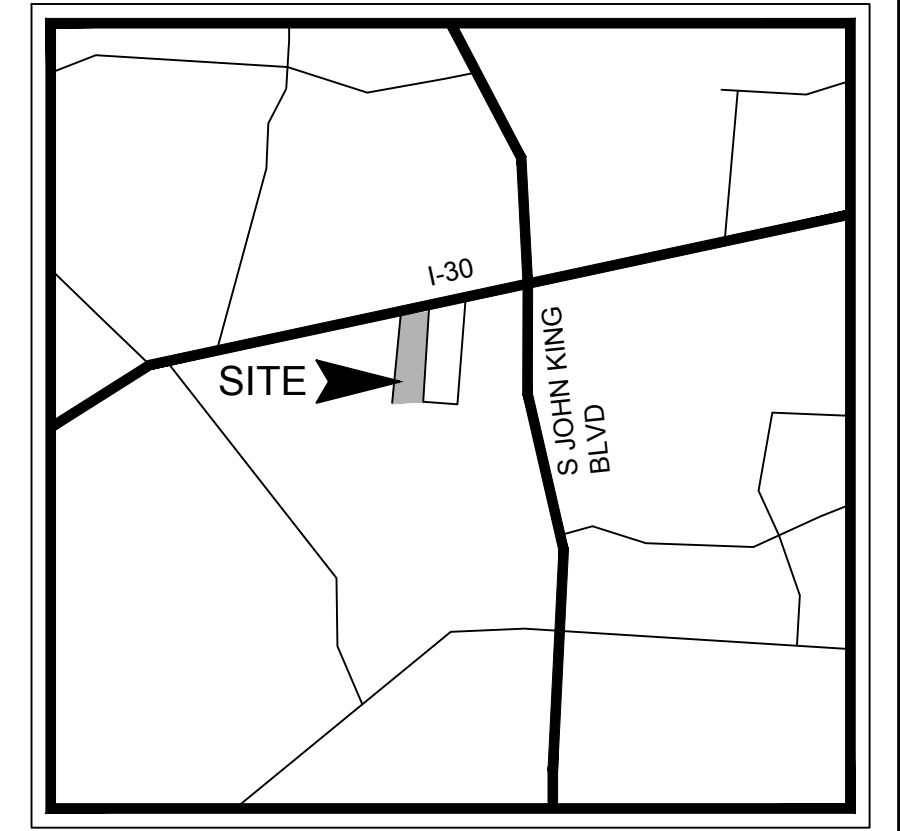
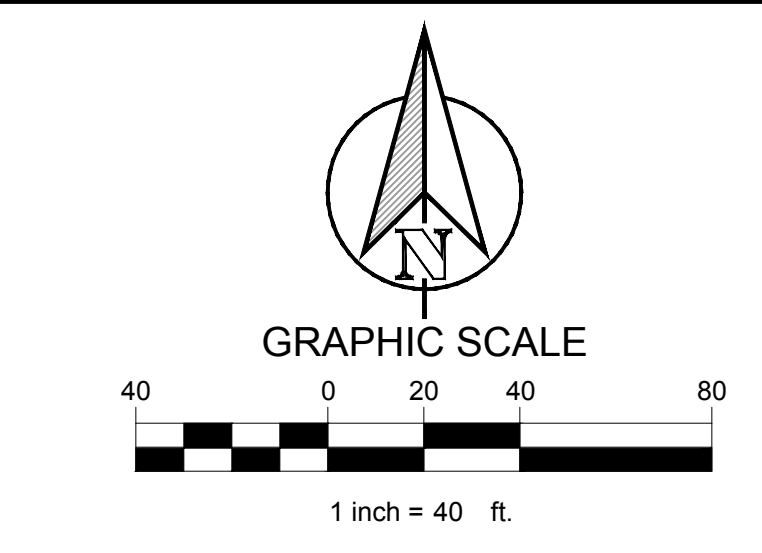
A. HANNA SURVEY,  
 ABSTRACT NO. 99  
  
 N.M. BULLARD SURVEY,  
 ABSTRACT NO. 24



SITE DATA TABLE	
SITE AREA	7.71 AC (312,099 SF)
ZONING	L1
PROPOSED USE	AUTO DEALER
BUILDING SIZE	20,658 SF (DEALERSHIP)
	850 SF (CARWASH)
	3,920 SF (OIL/LUBE)
LOT COVERAGE	0.07 %
FLOOR TO AREA RATIO	0.07 : 1
BUILDING HEIGHT	1 STORY
SALES FLOOR AREA	3,928 SF
OFFICE AREA	1,303 SF
# OF BAYS	12

PARKING DATA TABLE	
PARKING REQ.	
SALES FLOOR 1/ 250 SF	16 SPACES
OFFICE SF 1/ 300 SF	5 SPACES
1 PER 2 BAY	8 SPACES
TOTAL:	19 SPACES
PARKING PROVIDED	
DISPLAY PARKING	66 SPACES
CUSTOMER PARKING	27 (2 ADA) SPACES
SERVICE/STORAGE PARKING	21 SPACES

CONSTRUCTION SCHEDULE	
[Symbol]	EXISTING CONCRETE PAVEMENT
[Symbol]	FIRE LANE AND DRIVE ASILE 6", 3600 PSI (6.5 SACK/CY), #3 ON 18" ON 6" LIME STABILIZED SUBGRADE
[Symbol]	PARKING 5", 3600 PSI (6.5 SACK/CY), #3 ON 24" ON 6" LIME STABILIZED SUBGRADE
[Symbol]	PROPOSED DUMPSTER ENCLOSURE MIN. 7" THICK
[Symbol]	PROPOSED CONCRETE SIDEWALK PER DETAIL SHEET C-16
[Symbol]	PROPERTY LINE
[Symbol]	PROPOSED CONCRETE CURB AND GUTTER
[Symbol]	PROPOSED FIRE LANE
[Symbol]	PROPOSED SAWCUT
[Symbol]	PARKING COUNT



CONSTRUCTION SCHEDULE	
①	PROP. SAW CUT FULL DEPTH EXISTING PAVEMENT
②	PROP. 4" PARKING STALL STRIPING COLOR: WHITE (TYP)
③	PROP. CONCRETE CURB & GUTTER
④	EX. HANDICAP SYMBOL
⑤	EX. HANDICAP SIGN
⑥	PROP. PAVEMENT STRIPING
⑦	PROP. PROPOSED BOLLARD

- NOTES:
- A SEPARATE SIGNAGE PERMIT IS REQUIRED BY THE CITY OF ROCKWALL.
  - ALL WALLS 3' IN HEIGHT OR GREATER SHALL BE DESIGNED BY AN ENGINEER, LICENSED IN THE STATE OF TEXAS.
  - ALL WALLS MUST BE ROCK OR STONE FACE. NO WALLS SHALL BE SMOOTH CONCRETE.
  - NO TREES SHALL BE PLANTED WITHIN 10' OF NON-STEEL ENCASED PUBLIC UTILITIES.
  - SOD MUST BE LAID WITHIN ALL DISTURBED R.O.W. BEFORE ACCEPTANCE OF PROJECT.
  - ALL DUMPSTERS TO HAVE SELF LATCHING GATES.
  - ADDITIONAL LANDSCAPING SHALL BE ADDED AS A COMPENSATORY MEASURE FOR THE SITE PLAN VARIANCES.
  - OWNER RESPONSIBLE FOR MAINTENANCE OF DRAINAGE AND DETENTION SYSTEMS.

<b>CLAY COOLEY HYUNDAI</b> <b>ROCKWALL, TX 75087</b>	
LEGAL DESCRIPTION AND/OR ADDRESS: <b>ROCKWALL RECREATION ADDITION</b> <b>LOT 1 BLOCK 1</b> <b>7.17 AC (312,099 SF)</b>	
OWNER:	
CLAY COOLEY AUTO 1251 E. AIRPORT FREEWAY IRVING, TX 75062	
APPLICANT:	
CLAYMOORE ENGINEERING, INC. 1903 CENTRAL DRIVE, SUITE #406 BEDFORD, TX 76021 PH: 817.281.0572	
CASE NUMBER	
SP2023-030	
I HEREBY CERTIFY THAT THE ABOVE AND FOREGOING SITE PLAN FOR A DEVELOPMENT IN THE CITY OF ROCKWALL, TEXAS, WAS APPROVED BY THE PLANNING AND ZONING COMMISSION OF THE CITY OF ROCKWALL ON THE ____ DAY OF _____.	
WITNESS OUR HANDS THIS ____ DAY OF _____.	
DESIGN: LRR DRAWN: LRR CHECKED: CLC DATE: 9/8/2023	
PLANNING AND ZONING COMMISSION, CHAIRMAN  DIRECTOR OF PLANNING AND ZONING	
SHEET <b>SP-1</b>	

TEXAS REGISTRATION #14199  
**CLAYMOORE ENGINEERING**  
 1903 CENTRAL DRIVE, SUITE #406  
 BEDFORD, TX 76021  
 PHONE: 817.281.0572  
 WWW.CLAYMOOREENGINEERING.COM

STATE OF TEXAS  
 DREW DONOSKY  
 25661  
 LICENSED PROFESSIONAL ENGINEER  
 9/8/2023

**CLAY COOLEY HYUNDAI**  
**1540 I-30**  
**ROCKWALL, TX 75087**

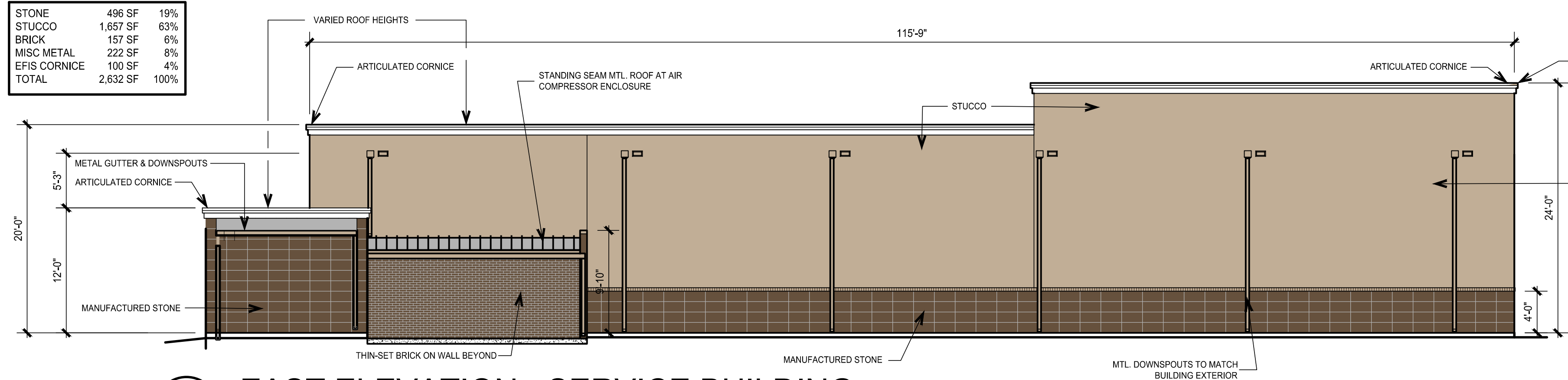
**CITY SITE PLAN**

File No. 2020-021  
 (SP2023-032)



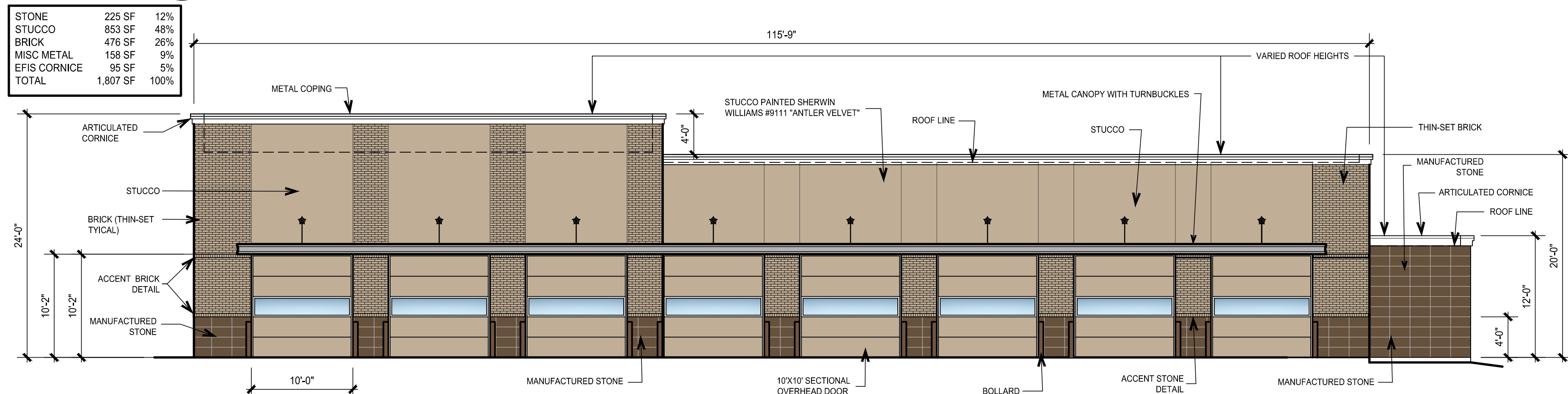
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 PLOT DATE: 9/6/2023 3:35 PM  
 LOCATION: Z:\ARCHITURE\ACTIVE\CLAY COOLEY HYUNDAI\DRAWING FILES\CONSULTANTS\CIVIL\ELEVATIONS FOR SITE SUBMISSION\2023-08-09\21034 CC HYUNDAI ROCKWALL S&S A4.01 ELEVATIONS\_2023-08-09.DWG  
 LAST SAVED: 9/5/2023 3:07 PM

STONE	496 SF	19%
STUCCO	1,657 SF	63%
BRICK	157 SF	6%
MISC METAL	222 SF	8%
EFIS CORNICE	100 SF	4%
TOTAL	2,632 SF	100%

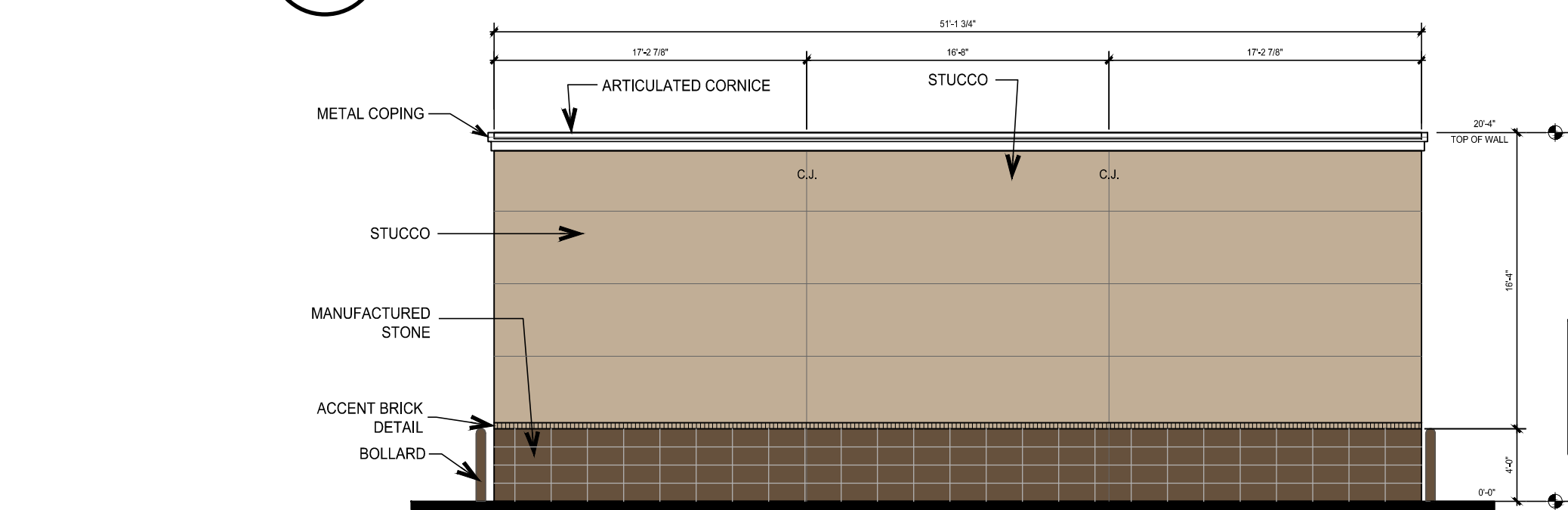


**8 EAST ELEVATION - SERVICE BUILDING**  
SCALE 1/8"=1'-0"

STONE	225 SF	12%
STUCCO	853 SF	48%
BRICK	476 SF	26%
MISC METAL	158 SF	9%
EFIS CORNICE	95 SF	5%
TOTAL	1,807 SF	100%

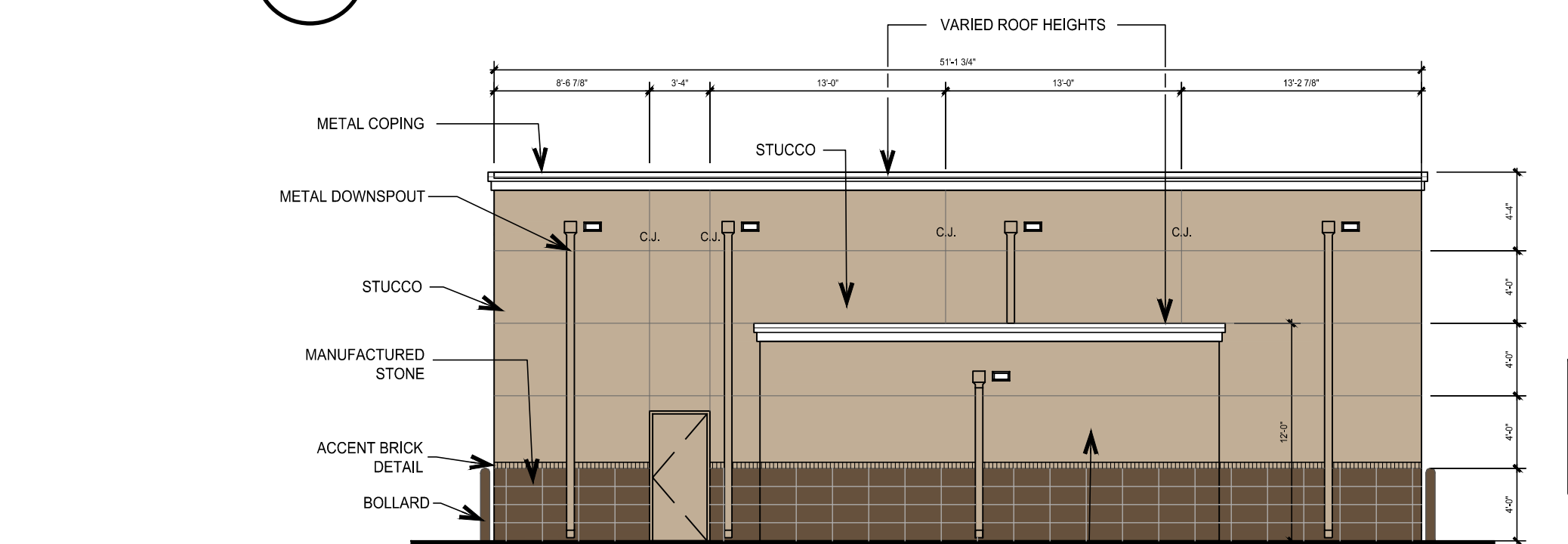


**6 WEST ELEVATION - SERVICE BUILDING - FACES COMMERCE STREET**  
SCALE 1/8"=1'-0"



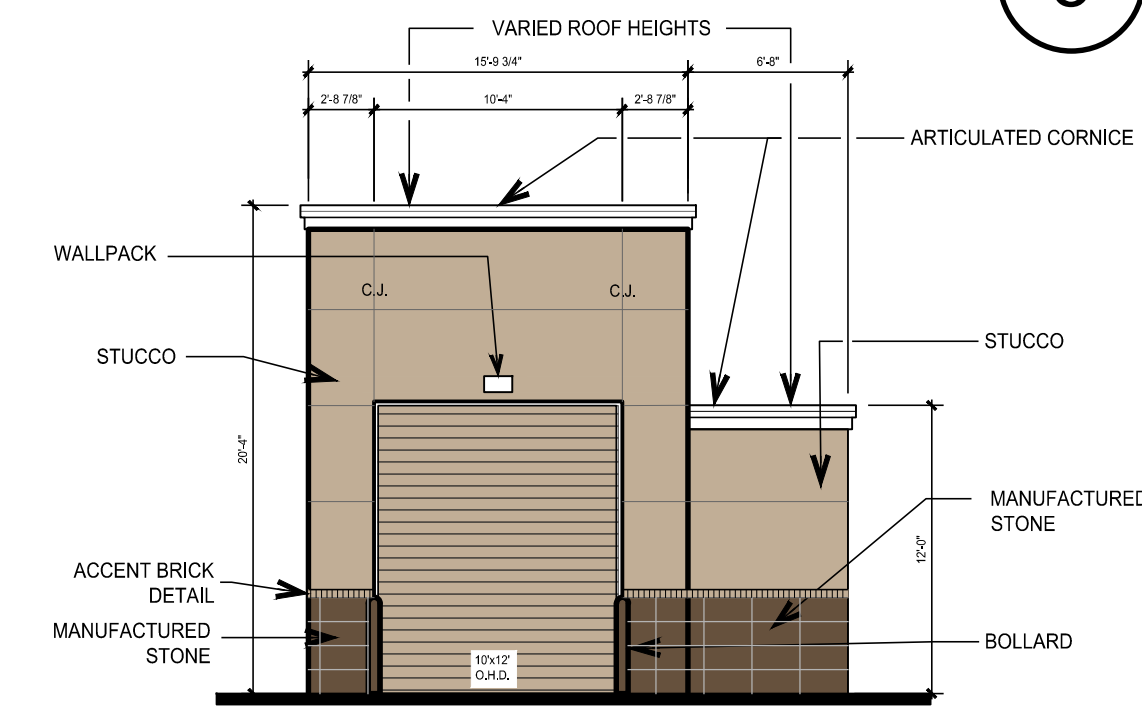
**4 SOUTH ELEVATION - CAR WASH**  
SCALE 1/8"=1'-0"

STONE	205 SF	20%
STUCCO	784 SF	75%
MISC METAL	12 SF	1%
EFIS CORNICE	39 SF	4%
TOTAL	1,040 SF	100%



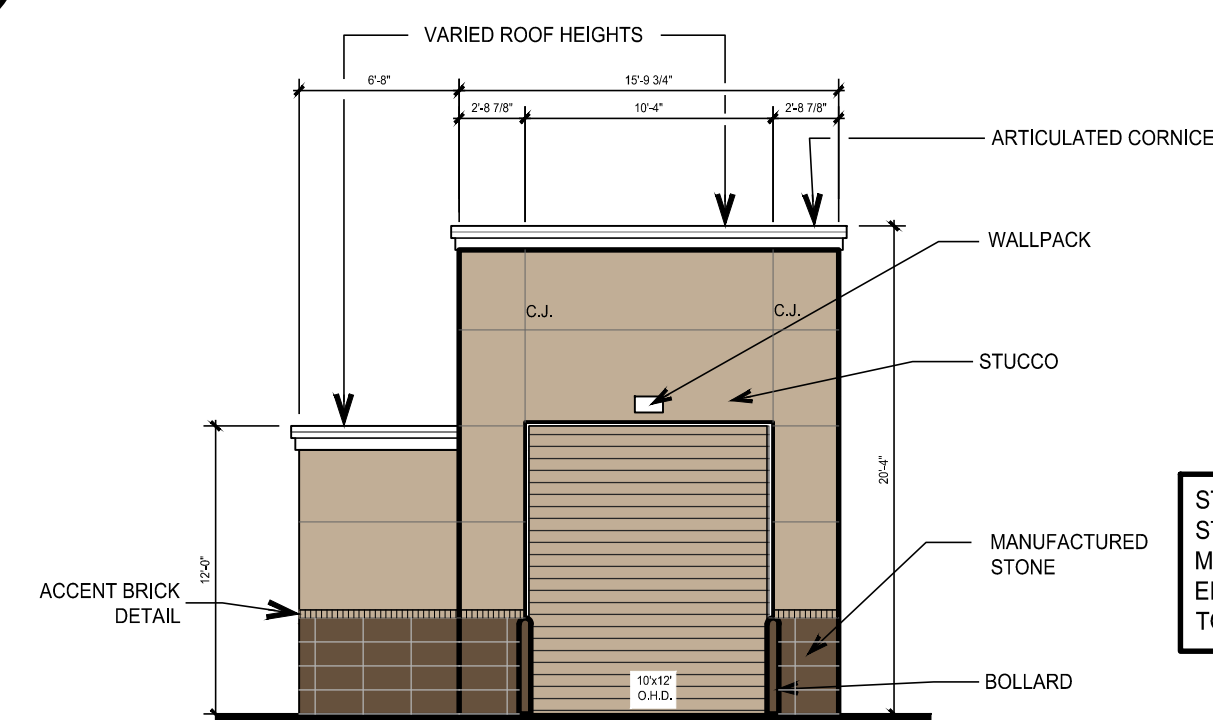
**2 NORTH ELEVATION - CAR WASH**  
SCALE 1/8"=1'-0"

STONE	185 SF	18%
STUCCO	723 SF	71%
MISC METAL	50 SF	5%
EFIS CORNICE	58 SF	6%
TOTAL	1,016 SF	100%



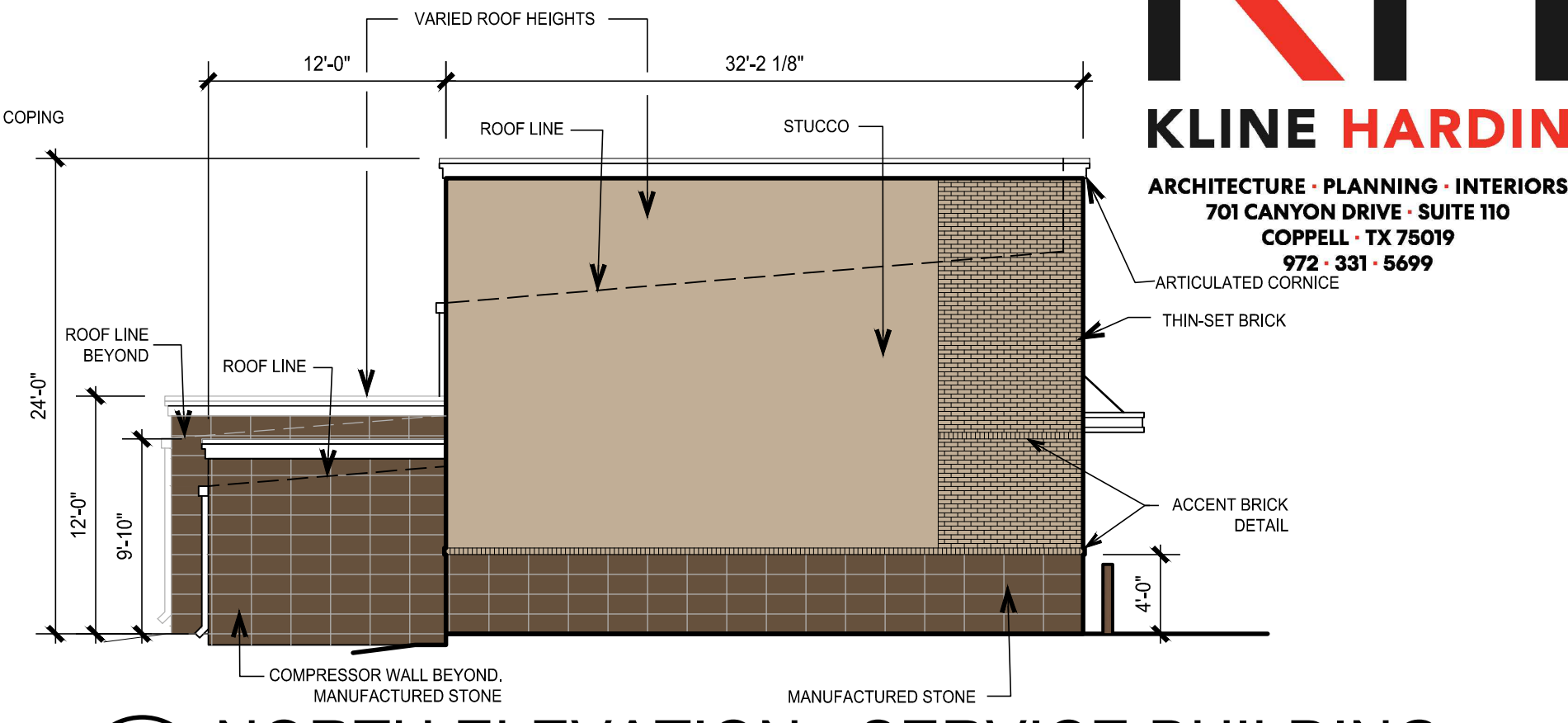
**3 EAST ELEVATION - CAR WASH**  
SCALE 1/8"=1'-0"

STONE	47 SF	17%
STUCCO	204 SF	74%
MISC METAL	8 SF	3%
EFIS CORNICE	17 SF	6%
TOTAL	276 SF	100%

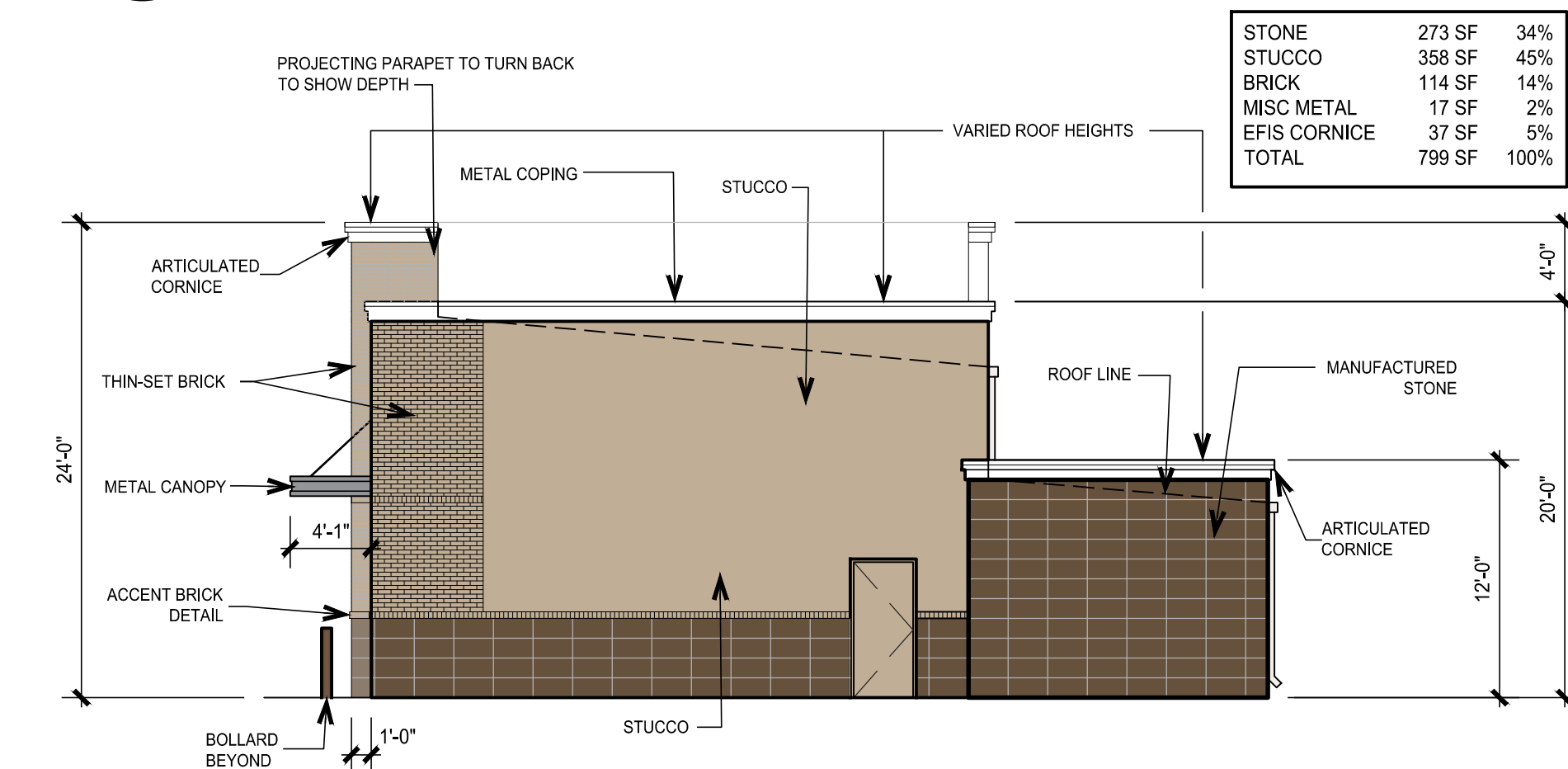


**1 WEST ELEVATION - CAR WASH**  
SCALE 1/8"=1'-0"

STONE	47 SF	17%
STUCCO	204 SF	74%
MISC METAL	8 SF	3%
EFIS CORNICE	17 SF	6%
TOTAL	276 SF	100%



**7 NORTH ELEVATION - SERVICE BUILDING**  
SCALE 1/8"=1'-0"



**5 SOUTH ELEVATION - SERVICE BUILDING**  
SCALE 1/8"=1'-0"

NOTE: PARAPETS SHALL BE FINISHED WITH THE SAME MATERIAL ON BOTH SIDES. NO TPO ROOFING MATERIAL TO BE VISIBLE.

NOTE: ALL STUCCO TO BE 3-PART STUCCO

NOTE: ALL ROOF TOP EQUIPMENT TO BE SCREEN FROM VIEW.

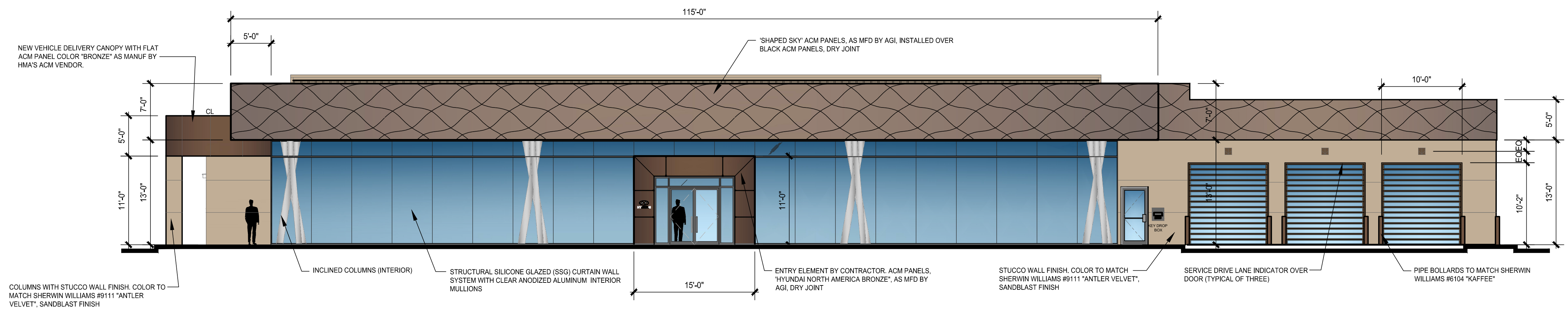


**CLAY COOLEY HYUNDAI**  
1540 I-30  
ROCKWALL, TX 75087

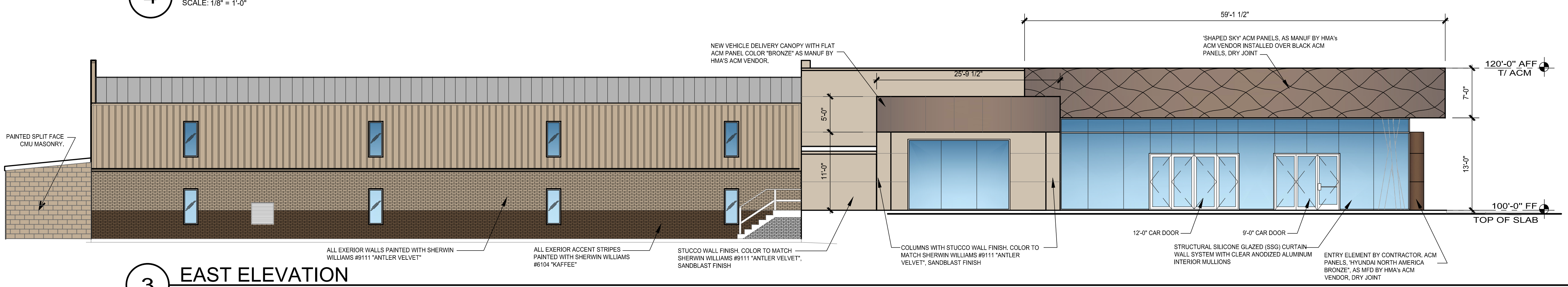
<b>CLAY COOLEY HYUNDAI</b> ROCKWALL, TX 75087	
LEGAL DESCRIPTION AND OR ADDRESS: <b>ROCKWALL RECREATION ADDITION</b> LOT 1 BLOCK 1 7.17 AC (312,099 SF)	
OWNER: CLAY COOLEY AUTO 1251 E. AIRPORT FREEWAY IRVING, TX 75062	
APPLICANT: CLAYMOORE ENGINEERING, INC. 1903 CENTRAL DRIVE, SUITE #406 BEDFORD, TX 76021 PH: 817.281.0572	
CASE NUMBER: Z2021-049	
I HEREBY CERTIFY THAT THE ABOVE AND FOREGOING SITE PLAN FOR A DEVELOPMENT IN THE CITY OF ROCKWALL, TEXAS, WAS APPROVED BY THE PLANNING AND ZONING COMMISSION OF THE CITY OF ROCKWALL ON THE ____ DAY OF ____.	
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PLANNING AND ZONING COMMISSION, CHAIRMAN	
DIRECTOR OF PLANNING AND ZONING	



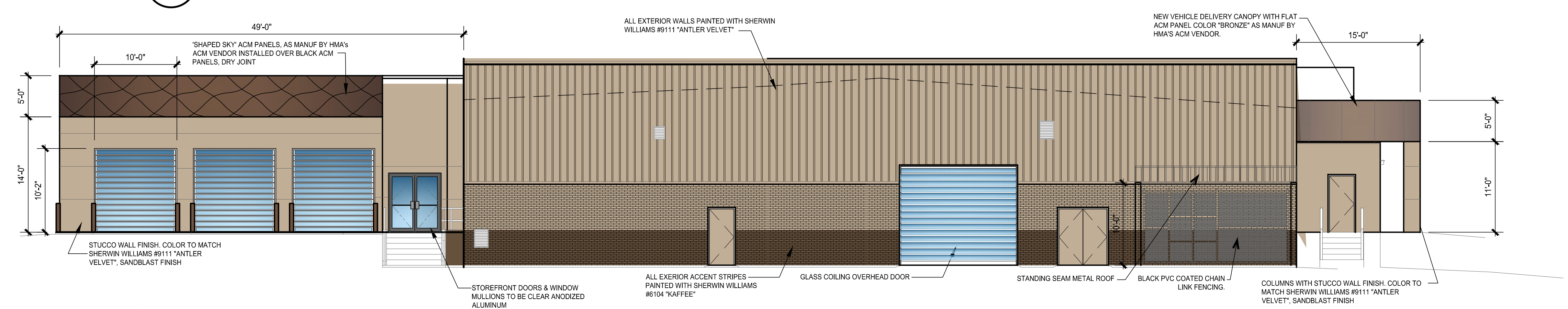
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 PLOT DATE: 9/6/2023 3:35 PM  
 LOCATION: Z:\ARCHITURE\ACTIVE\CLAY COOLEY HYUNDAI\21034J CLAY COOLEY HYUNDAI OF ROCKWALL SERVICE\DRAWING FILES\CIVIL\ELEVATIONS FOR SITE SUBMISSION\_2023-08-09\21034 CC HYUNDAI ROCKWALL S&S A4.01 ELEVATIONS\_2023-08-09.DWG  
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**4 NORTH ELEVATION - FACES I-30**  
SCALE: 1/8" = 1'-0"

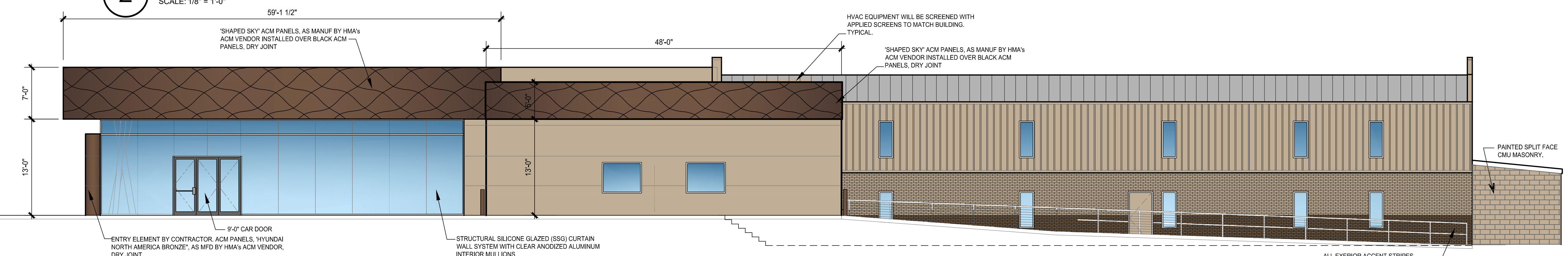


**3 EAST ELEVATION**  
SCALE: 1/8" = 1'-0"



**2 SOUTH ELEVATION**  
SCALE: 1/8" = 1'-0"

- NOTE: PARAPETS SHALL BE FINISHED WITH THE SAME MATERIAL ON BOTH SIDES. NO TPO ROOFING MATERIAL TO BE VISIBLE.
- NOTE: ALL STUCCO TO BE 3-PART STUCCO.
- NOTE: ALL ROOF TOP EQUIPMENT TO BE SCREENED FROM VIEW.



**1 WEST ELEVATION - FACES COMMERCE STREET**  
SCALE: 1/8" = 1'-0"

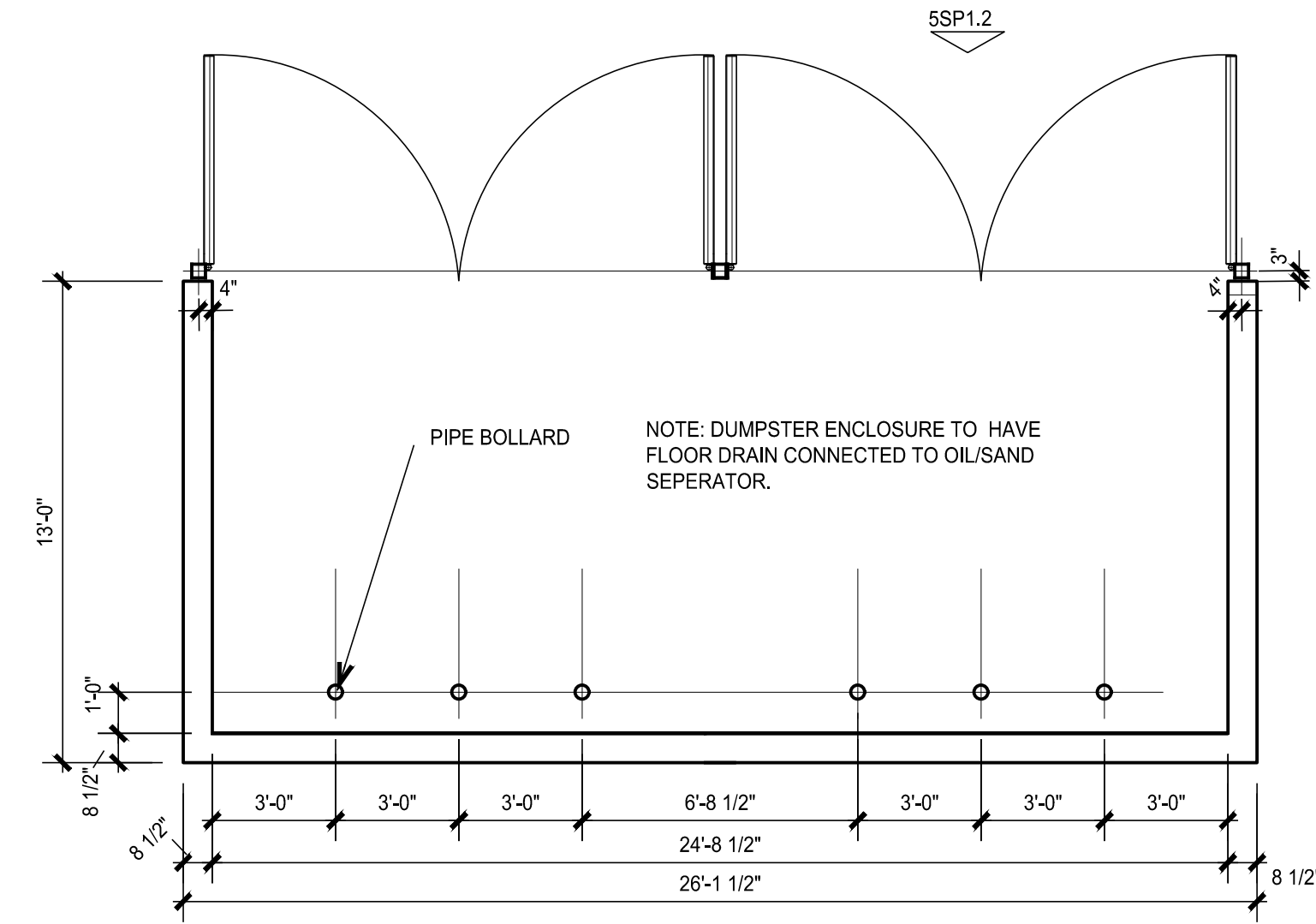


**CLAY COOLEY HYUNDAI**  
**1540 I-30**  
**ROCKWALL, TX 75087**

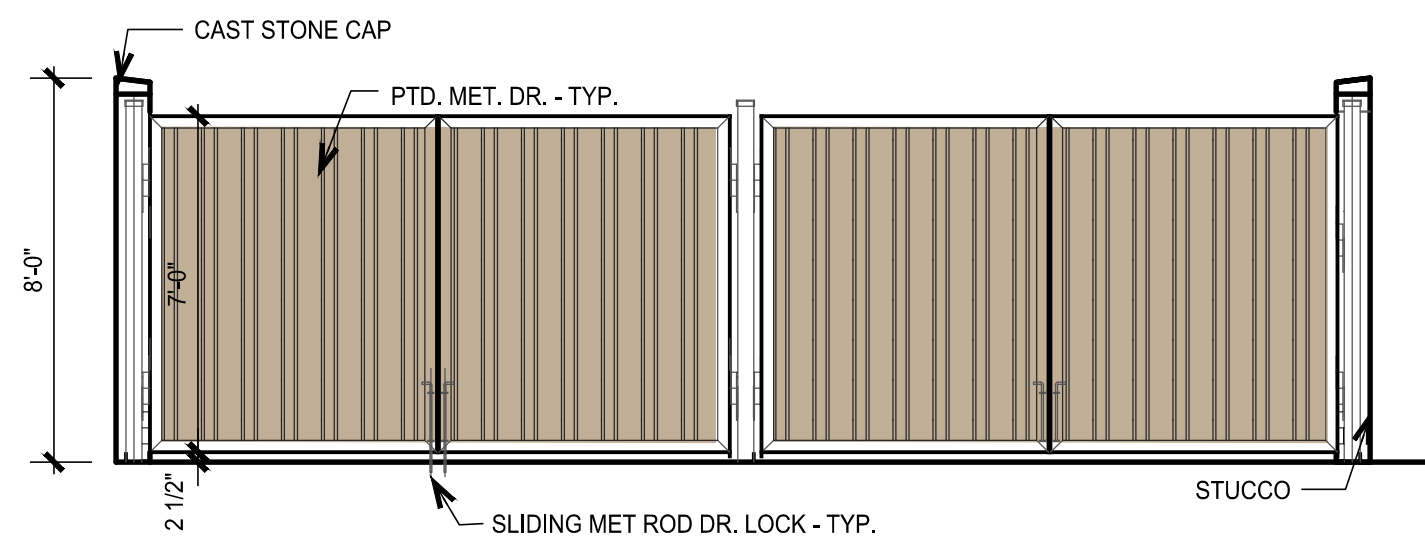
<b>CLAY COOLEY HYUNDAI</b> ROCKWALL, TX 75087 <small>LEGAL DESCRIPTION AND OR ADDRESS:</small> <b>ROCKWALL RECREATION ADDITION</b> LOT 1 BLOCK 1 7.17 AC (312,099 SF)	
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CLAYMOORE ENGINEERING, INC. 1903 CENTRAL DRIVE, SUITE #406 BEDFORD, TX 76021 PH: 817.281.0572	
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Z2021-049	
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PLANNING AND ZONING COMMISSION, CHAIRMAN _____ DIRECTOR OF PLANNING AND ZONING	



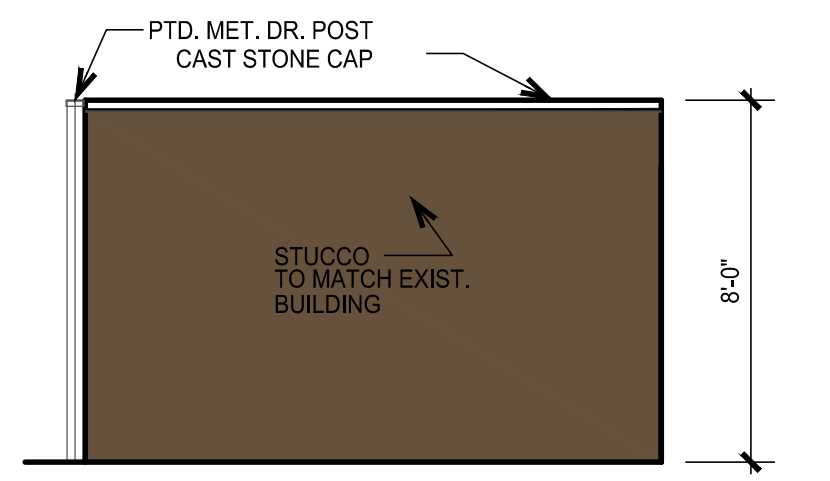
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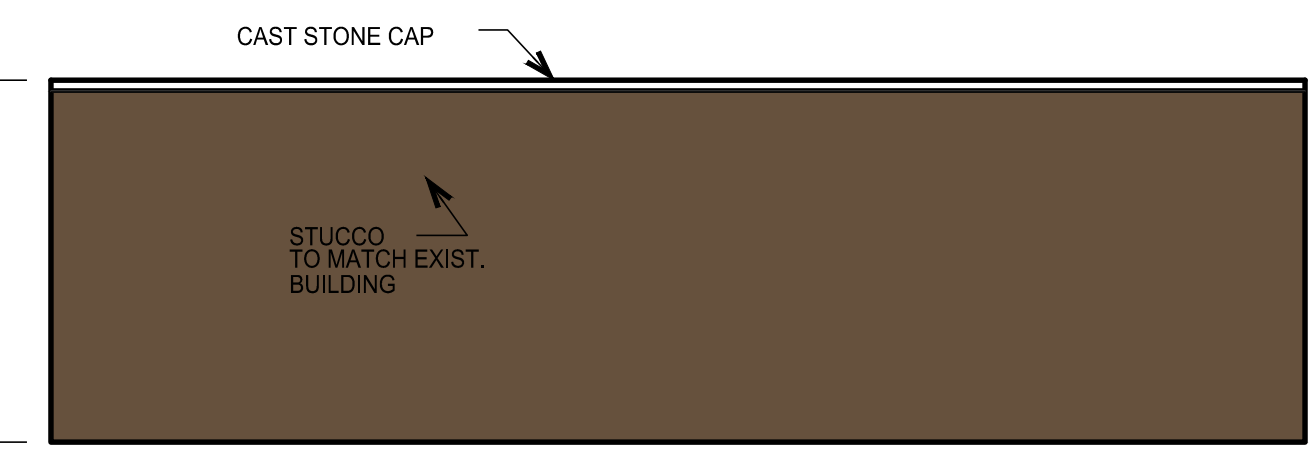
**4**  
**DUMPSTER PLAN**  
 SCALE: 1/4" = 1'-0"



**1**  
**DUMPSTER FRONT ELEVATION**  
 SCALE: 1/4" = 1'-0"



**2**  
**DUMPSTER SIDE ELEVATION**  
 SCALE: 1/4" = 1'-0"



**3**  
**DUMPSTER REAR ELEVATION**  
 SCALE: 1/4" = 1'-0"

NOTE: ALL STUCCO TO BE 3-PART STUCCO.



**CLAY COOLEY HYUNDAI**  
**1540 I-30**  
**ROCKWALL, TX 75087**

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_____ <small>PLANNING AND ZONING COMMISSION, CHAIRMAN</small>	
_____ <small>DIRECTOR OF PLANNING AND ZONING</small>	



**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.
  - 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. 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.

**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 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.
- ALL IRRIGATION SHALL MEET THE REQUIREMENTS OF THE UDC. (ARTICLE 08, SUBSECTION 05.04)

**ROOT BARRIERS**

THE CONTRACTOR SHALL INSTALL ROOT BARRIERS NEAR ALL NEWLY-PLANTED TREES THAT ARE LOCATED WITHIN FIVE (5) FEET OF PAVING OR CURBS. 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**

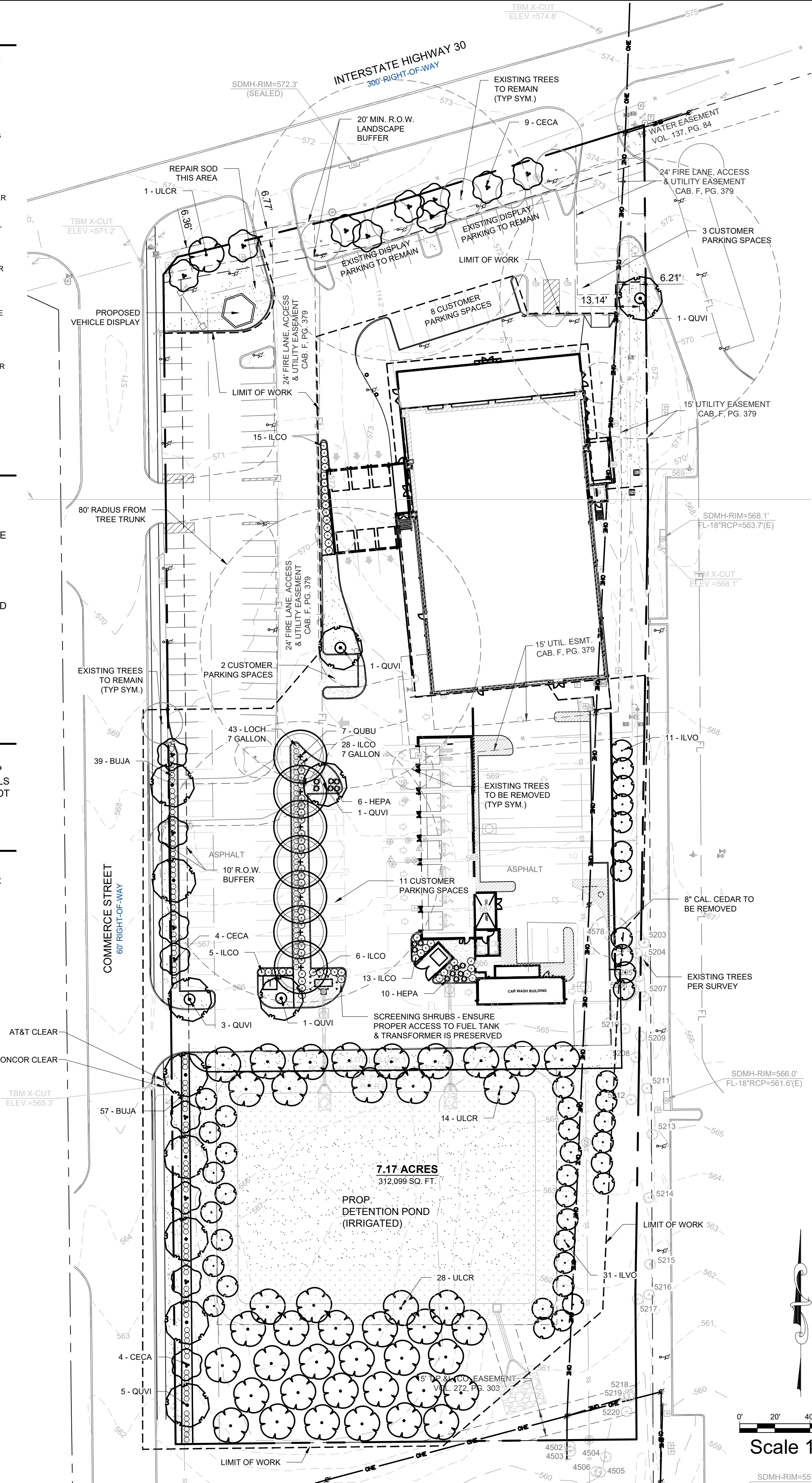
AFTER ALL PLANTING IS COMPLETE, CONTRACTOR SHALL INSTALL 3" THICK LAYER OF 1-1/2" SHREDDED WOOD MULCH, NATURAL (UNDYED), IN ALL PLANTING AREAS (EXCEPT FOR TURF AND SEEDED AREAS). CONTRACTOR SHALL SUBMIT SAMPLES OF ALL MULCHES TO LANDSCAPE ARCHITECT AND OWNER FOR APPROVAL PRIOR TO CONSTRUCTION. ABSOLUTELY 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).

**SITE DATA TABLE**

SITE AREA	7.71 AC / 312,099 SF
ZONING	LI (Light Industrial)
PROPOSED USE	AUTO DEALER
BUILDING SIZE	20,658 SF (DEALERSHIP) 850 SF (CAR WASH) 1,175 SF (OIL/LUBE)
LOT COVERAGE	0.07%
FLOOR TO AREA RATIO	0.07:1
BUILDING HEIGHT	1-STORY
SALES FLOOR AREA	3,928 SF
OFFICE AREA	1,303 SF
# OF BAYS	12

**PARKING DATA TABLE**

PARKING REQUIRED	
SALES FLOOR 1/250 SF	16 SPACES
OFFICE SF 1/300 SF	5 SPACES
1 SPACE PER 2 BAY	6 PARKING
TOTAL	27 SPACES
PARKING PROVIDED	
DISPLAY PARKING	87 SPACES
CUSTOMER PARKING	27 (2 ADA) SPACES



**PLANTING LEGEND**

SYMBOL	BOTANIC NAME	COMMON NAME	MIN. SIZE	SPACING	QUANTITY	REMARKS
<b>TREES</b>						
CECA	Cercis canadensis 'Texana'	Texas Redbud	6'-8' high	Per plan	17	Accent Tree
ILVO	Ilex vomitoria	Yaupon Holly	6'-8' high	Per plan	42	Accent Tree
QUBU	Quercus buckleyi	Texas Red Oak	5" cal., 12'-15' high	Per plan	7	Canopy Tree
QUVI	Quercus virginiana	Live Oak	5" cal., 12'-15' high	Per plan	12	Canopy Tree
ULCR	Ulmus crassifolia	Cedar Elm	5" cal., 12'-15' high	Per plan	43	Canopy Tree

NOTE: ALL TREES SHALL BE CONTAINER-GROWN, CONTAINER SIZE AS APPROPRIATE FOR THE CALIPER SPECIFIED. SEE SPECIFICATIONS FOR PROPER ROOT QUALITY.

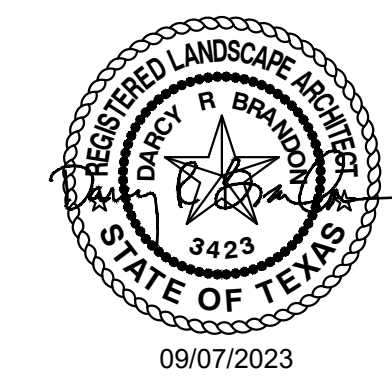
<b>SHRUBS</b>						
BUJA	Buxus micro. japonica 'Green Beauty'	Green Beauty Boxwood	5 gallon	3' o.c.	96	
HEPA	Hesperaloe parviflora 'Brakelights'	Red Yucca	5 gallon	4' o.c.	16	
ILCO	Ilex cornuta 'Burfordii Nana'	Dwarf Burford Holly	5 gallon / 7 gallon	4' o.c.	39 / 28	See plan for 7 gal. locations
LOCH	Loropetalum chinense 'PILC-III'	Purple Daydream Loropetalum	7 gallon	3' o.c.	43	

<b>TURF AND SEED</b>						
	Cynodon 'Tifway 419'	Tifway Hybrid Bermuda Grass	Sod	- - -	~ 24,885 SF	
	Dam Slope Mix (Contact Native American Seed)		Hydromulch	20 lbs / acre	~ 20,481 SF	

NOTE: THE DEVELOPER SHALL ESTABLISH GRASS AND MAINTAIN THE SODDED 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%-80% COVERAGE AND A MINIMUM OF 1" IN HEIGHT AS DETERMINED BY THE CITY.

**LANDSCAPE STANDARDS**

- 08.05.01 LANDSCAPE BUFFERS - NON-RESIDENTIAL REQ. ABUTTING A PUBLIC RIGHT-OF-WAY:**
  - 10' WIDE LANDSCAPE BUFFER W/ GROUND COVER, BERM, AND SHRUBBERY 30" HIGH + 1 CANOPY TREE & 1 ACCENT TREE PER 50 LIN. FEET OF FRONTAGE
- COMMERCE STREET: ±398' OF STREET FRONTAGE**
  - 10' WIDE BUFFER REQUIRED W/ 1 CANOPY & 1 ACCENT TREE PER 50' OF FRONTAGE
- PROVIDED IN 10' BUFFER:**
  - 8 OAKS, 8 REDBUDS, SHRUBS, & GROUND COVER
- 05.06 GENERAL OVERLAY DISTRICT STANDARDS - IH-30 OVERLAY REQ. LANDSCAPE BUFFER:**
  - 20' WIDE W/ GROUND COVER & BUILT-UP BERM & SHRUBBERY ALONG ENTIRE LENGTH OF FRONTAGE, 30"-48" HIGH; 2 CANOPY TREES + 4 ACCENT TREES PER 100 LIN. FT. OF PRIMARY ROADWAY
  - 4.7 (5) CANOPY TREES + 9.5 (10) ACCENT TREES
  - 4 CANOPY TREES + 1 ACCENT TREE; SHRUBBERY
  - 1 CEDAR ELM + 9 REDBUDS
- ±237 ROADWAY FRONTAGE REQ. PLANTING: PROVIDED IN 20' BUFFER, EXISTING: PROPOSED IN 20' BUFFER:**
  - 4.7 (5) CANOPY TREES + 9.5 (10) ACCENT TREES
  - 4 CANOPY TREES + 1 ACCENT TREE; SHRUBBERY
  - 1 CEDAR ELM + 9 REDBUDS
- 05.02 LANDSCAPE SCREENING REQ. HEADLIGHT SCREENING:**
  - HEAD-IN PARKING ADJ. TO STREET SHALL INCORP. MIN. 2' BERM W/ MATURE EVERGREEN SHRUBS ALONG ENTIRE PARKING AREAS
  - BOXWOOD SHRUBS PROVIDED IN FRONT OF PARKING SPACES LOCATED ALONG STREET FRONTAGE TO MATCH EXISTING SHRUBS
- PROVIDED SCREENING:**
  - A WROUGHT IRON FENCE AND THREE (3) TIERED SCREENING (I.E. SMALL TO MID-SIZED SHRUBS, LARGE SHRUBS OR ACCENT TREES, AND CANOPY TREES) ALONG THE ENTIRE LENGTH OF THE ADJACENCY. THE CANOPY TREES SHALL BE PLACED ON 20-FOOT CENTERS.
- REQUIRED SCREENING OF SERVICE BAYS:**
  - TEXAS RED OAK TREES, DWARF BURFORD HOLLY, AND PURPLE DAYDREAM LOROPETALUM ARE PROPOSED TO PROVIDE THE THREE-TIER PLANTING SCREEN.
- 05.03 LANDSCAPE REQUIREMENTS - L-1 DISTRICT**
  - TOTAL SITE AREA: 312,099 SF
  - LANDSCAPE AREA REQUIRED TOTAL SITE: 62,420 SF (20%)
  - LANDSCAPE PROVIDED, TOTAL SITE: ±79,574 SF (25%)
- LOCATION OF LANDSCAPING:**
  - MIN. 100% OF REQ. LANDSCAPING SHALL BE LOCATED IN THE FRONT OF & ALONG THE SIDE OF BUILDINGS W/ STREET FRONTAGE.
- MIN. SIZE OF AREAS**
  - ALL REQ. LANDSCAPING SHALL BE NO LESS THAN 5' WIDE AND A MIN. OF 25 SF IN AREA
- DETENTION BASINS**
  - DETENTION BASIN AREA: ±31,539 SF
  - REQUIRED TREES: 42 CANOPY TREES & 42 ACCENT TREES
  - PROVIDED TREES: 42 CEDAR ELM & 42 YAUPON HOLLY
- PARKING LOT LANDSCAPING**
  - MIN. 5% OR 200 SF OF LANDSCAPING, WHICHEVER IS GREATER, IN THE INTERIOR OF THE PARKING LOT AREA.
  - 27 (2 ADA) SPACES. ±20,759 SF
  - 87 SPACES, ±27,124 SF
  - 1,038 SF (5%)
  - 3,734 SF (18%)
  - REQ. PARKING SPACES MUST BE WITHIN 80' OF A CANOPY TREE TRUNK
- PROPOSED CUSTOMER PARKING AREA:** 27 (2 ADA) SPACES. ±20,759 SF
- PROPOSED DISPLAY PARKING AREA:** 87 SPACES. ±27,124 SF
- REQ. PARKING LOT LANDSCAPING:** 1,038 SF (5%)
- PROPOSED PARKING LOT LANDSCAPING:** 3,734 SF (18%)



I HEREBY CERTIFY THAT THE ABOVE AND FOREGOING SITE PLAN FOR A DEVELOPMENT IN THE CITY OF ROCKWALL, TEXAS, WAS APPROVED BY THE PLANNING AND ZONING COMMISSION OF THE CITY OF ROCKWALL ON THE \_\_\_\_\_ DAY OF \_\_\_\_\_.

WITNESS OUR HANDS THIS \_\_\_\_\_ DAY OF \_\_\_\_\_.

PLANNING AND ZONING COMMISSION, CHAIRMAN

DIRECTOR OF PLANNING AND ZONING



**PRELIMINARY**  
FOR REVIEW ONLY  
Not for construction purposes.  
CLAYMOORE ENGINEERING  
ENGINEERING AND PLANNING  
CONSULTANTS  
DREW DONOSKY  
Engineer, No. 125651, Date: 9/7/2023

**CLAY COOLEY HYUNDAI**  
**1540 I-30**  
**ROCKWALL, TX 75087**

LANDSCAPE PLANTING PLAN

DESIGN: LRR  
DRAWN: LRR  
CHECKED: CLC  
DATE: 02-02-2020  
SHEET  
**LP-1**  
File No. 2020-021

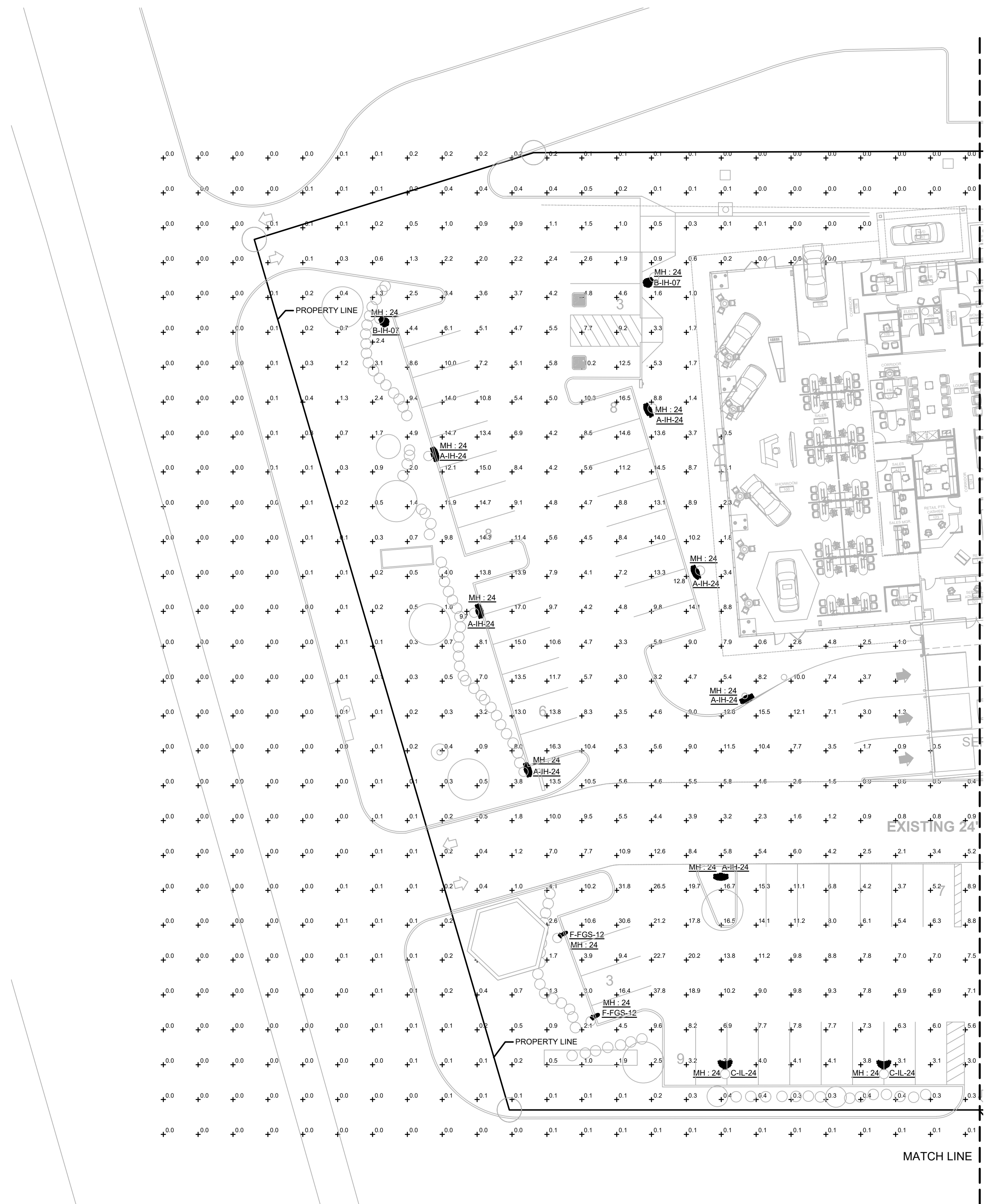
PLOTTED BY: DARCY BRANDON  
 PLOT DATE: 9/7/2023 12:32 PM  
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 LAST SAVED: 9/7/2023 12:32 PM



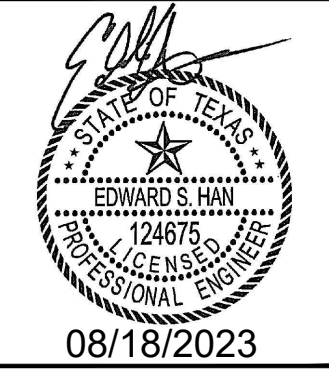
Schedule								
Symbol	Label	Quantity	Manufacturer	Catalog Number	Number Lamps	Lumens Per Lamp	Light Loss Factor	Wattage
☐	A-IH-24	12	LSI INDUSTRIES, INC.	MRM-LED-24L-SIL-FTA-50-70CRI-IH	1	19613	.9	176
☐	B-IH-07	2	LSI INDUSTRIES, INC.	MRM-LED-07L-SIL-AM-50-70CRI-IH	1	5944	.9	48
☐	C-IL-24	8	LSI INDUSTRIES, INC.	MRM-LED-24L-SIL-FT-50-70CRI-IL	1	16438	.9	176
☐	D-36	2	LSI INDUSTRIES, INC.	MRM-LED-36L-SIL-FT-50-70CRI	1	38298	.9	288
☐	D-IL-36	1	LSI INDUSTRIES, INC.	MRM-LED-36L-SIL-FT-50-70CRI-IL	1	24246	.9	288
☐	F-FGS-12	2	LSI INDUSTRIES, INC.	PFL-LED-12L-PC-MF-50-80FGS FLOOD LIGHT MOUNTED @ 45 DEGREE ROTATION	1	12380	.9	102
☐	W	10	LSI INDUSTRIES, INC.	XWM-FT-LED-03L-50	1	3296	.9	23

Statistics					
Description	Symbol	Avg	Max	Min	Mounting Heights
Calc Zone #1	+	3.4 fc	37.8 fc	0.1 fc	24'

- NOTES:**
1. ALL SITE LIGHTING SHALL COMPLY WITH CITY OF ROCKWALL EXTERIOR ILLUMINATION ORDINANCES AND REGULATIONS.
  2. ALL EXTERIOR LIGHTING SHALL COMPLY WITH 2018 IECC REQUIREMENTS AND REGULATIONS.
  3. PHOTOMETRIC CALCULATIONS INCLUDE NEW LIGHT POLES, ALONG WITH REPLACEMENT LED HEADS ON EXISTING POLES.
  4. ALL PARKING LOT POLE LIGHTING SHALL BE LED.



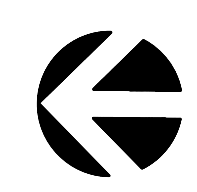
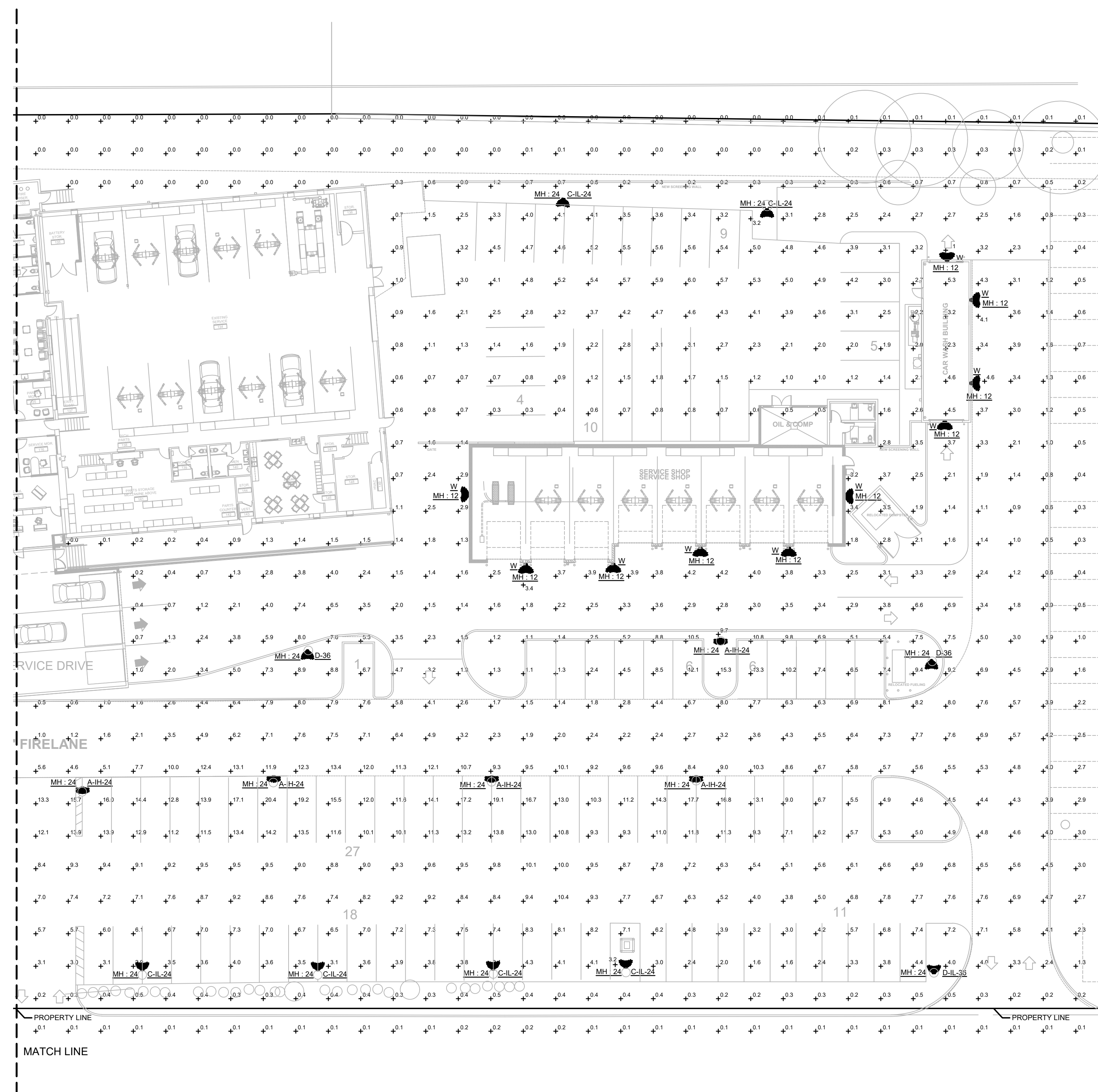
**1 SITE PLAN - PHOTOMETRICS - AREA A**  
SCALE: 1" = 20'-0"



**CLAY COOLEY HYUNDAI**  
1540 I-30  
ROCKWALL, TX 75087

**COUNSEL**  
MEP Engineering Services  
5757 Alpha Rd., Suite 450  
Dallas, Texas 75240  
972.707.3540  
TX Firm No. F-18894  
CE #21070

DESIGN:	
DRAWN:	
CHECKED:	
DATE:	08/18/2023
SHEET	
E1.02A	
File No.	1 OF 2



1

# SITE PLAN - PHOTOMETRICS - AREA B

SCALE: 1" = 20'-0"



08/18/2023

**CLAY COOLEY HYUNDAI**  
**1540 I-30**  
**ROCKWALL, TX 75087**

**COUNSEL**  
 MEP Engineering Services  
 5757 Alpha Rd., Suite 450  
 Dallas, Texas 75240  
 972.707.3540  
 TX Firm No. F-18894  
 CE #21070

DESIGN:  
 DRAWN:  
 CHECKED:  
 DATE: 08/18/2023

SHEET  
**E1.02B**





## PFL (12L & 16L) LED High Performance Flood

The PFL is a high performance flood ideal for a wide variety of commercial and landscape environments such as parking areas, pathways, building facades, loading docks, and general site lighting applications. Multiple mounting options, color temperatures and lumen packages provide superior performance to meet most specifications.

### Features & Specifications

#### Optical System

- LSI flood lights utilize individual lenses for maximum light intensity.
- Lenses are made of optical grade polycarbonate guaranteeing more footcandles, less glare and less wasted light.
- Standard distribution is NEMA floodlight (7H x 7V) Wide Flood.
- Available in 4000K and 5000K color temperatures.
- Minimum CRI of 80

#### Electrical

- High-performance driver features over-voltage, under voltage, short-circuit and over temperature protection.
- 0-10 volt dimming (10% - 100%) standard.
- Standard Universal Voltage (120-277 Vac) Input 50/60 Hz
- L70 Calculated Life: > 100k Hours (See Lumen Maintenance on Page 3)
- Total harmonic distortion: <20%
- Operating temperature: -20°C to +45°C (-4°F to 113°C)
- Power factor: >.90
- High-efficacy LEDs with integrated circuit board mount directly to the housing to maximize heat dissipation and promote long life.
- Components are fully encased in potting material for moisture resistance. Driver complies with FCC standards. Driver and key electronic components can easily be accessed. Note: FCC Part 15, class B standards.
- Minimum 6kV surge rating.

#### Construction

- Precision Die cast-aluminum housing for durability and consistency.
- Heat and impact resistant polycarbonate lens (IK 9 rated).
- IP66 rated luminaire protects integral components from harsh environments.
- Wireway enclosure is sealed with a water-tight, silicon rubber gasket.
- Optional glare shields (full & half) & wire guards are available.
- Optional NEMA photocell installation kit provides watertight photocell attachment to driver enclosure clover.
- Rated for 3G protection.
- Salt fog tested for 1,000 hours (ASTM B117). After salt fog testing, paint rated at 9 per ASTM D1654-05 scratch test.



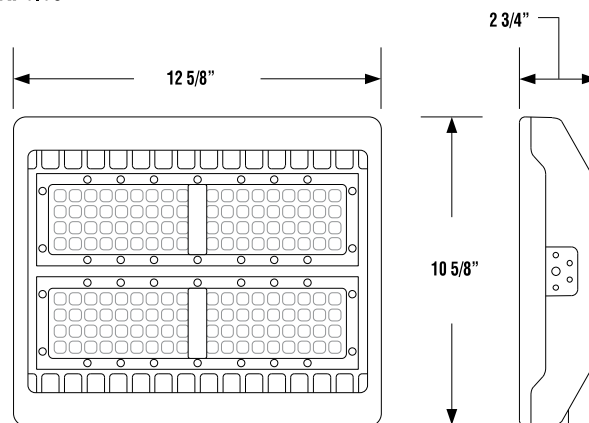
IP66



### Dimensions

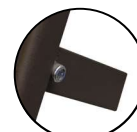
**Shipping Weight:** 10.8 lbs (12L) & 11 lbs (16L)

**EPA:** 1.10



### Mounting Options

- Slip-fitter mount provides attachment to poles 2 3/8" O.D. tenon).
- Adjustable Steel Arm Mount Option provides secure attachment to flat surfaces.

Slip-Fitter  
Mount OptionAdjustable Steel  
Arm MountTrunnion  
Mount



# PFL (12L & 16L) LED High Performance Flood

## Features & Specifications (cont.)

### Installation

- Easy installation in new construction or retrofit applications.
- Slip-fitter mount provides attachment to poles 2 3/8" O.D. tenon).
- Adjustable Steel Arm Mount Option provides secure attachment to flat surfaces.

### Warranty

- LSI LED Fixtures carry a 5-year warranty.

### Listings

- Listed to UL 1598 and UL 8750.
- DesignLights Consortium® (DLC Premium) qualified product. Not all versions of this product may be DLC Premium qualified. Please check the DLC Qualified Products List at [www.designlights.org/GPL](http://www.designlights.org/GPL) to confirm which versions are qualified.
- Suitable For Wet Locations.
- IP66 rated Luminaire.
- Complies with EN61000-4-5, surge immunity (6kV).

## Luminaire Ordering Guide

TYPICAL ORDER EXAMPLE: **PFL LED 12L PC WF UNV DIM 40 80 CR3P BRZ SF**

Luminaire Prefix	LED Technology	Lumen Package	Lens Type	Distribution	Line Voltage	Driver	Color Temp	CRI	Controls	Finish	Options
PFL - Performance Flood Light	LED	12L - 12,000 lms 16L - 16,000 lms	PC - Polycarbonate	WF - Wide Flood	UNV - Universal Voltage	DIM - Dim to 10% (0-10V)	40 - 4000K 50 - 5000K	80 - 80 CRI	CR3P - Photocontrol	BRZ - Bronze	TR - Trunion Mount SF - Slip Fitter Mount SA - Adjustable Steel Arm Mount

### Accessory Ordering Information (Accessories are field installed)

Description	Order Number
PFL 12L/16L WG - Wire Guard for 12L, 16L	698627
PFL 12L/16L HGS - Half Glare Shield for 12L, 16L	698493
PFL 12L/16L FGS - Full Glare Shield for 12L 16L	698640



Full Glare Shield



Half Glare Shield



Wire Guard



# PFL (12L & 16L) LED High Performance Flood

## Performance

ELECTRICAL DATA (AMPS)*				
Lumen Package	Watts	120V	208V	240V
12L	100	0.83	0.48	0.42
16L	136	1.13	0.65	0.56

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

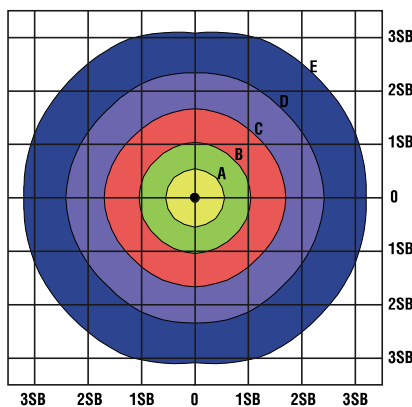
RECOMMENDED LUMEN MAINTENANCE (12L-16L) <sup>1</sup>				
Ambient Temperature	Initial <sup>2</sup>	25K hrs. <sup>2</sup>	50K hrs. <sup>2</sup>	75K hrs. <sup>3</sup>
0-40C	99%	97%	95%	92%

- 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 - Lumen maintenance values at 25C are calculated per TM-21 based on LM-80 data and in-situ testing times the IESNA LM-80-08 total test duration for the device under testing

## Photometry

DELIVERED LUMENS*							
Catalog Number	Nema Type(H x V)	Field (H x V)	Beam (H x V)	Max Cd	Lumens	Watts	LPW
PFL-LED-12L-PC-WF-40-80	7 x 7	150 x 176.2	120.2 x 163.5	3,581	11,787	100	118
PFL-LED-12L-PC-WF-50-80	7 x 7	150 x 176.2	120.2 x 163.5	3,333	10,970	100	110
PFL-LED-16L-PC-WF-40-80	7 x 7	150 x 176.2	120.2 x 163.5	4,933	16,238	136	119
PFL-LED-16L-PC-WF-50-80	7 x 7	150 x 176.2	120.2 x 163.5	4,591	15,112	135	112

\*LED Chips are frequently updated therefore values are nominal.



20' Set Back - Foot-Candle Values from Chart					
Flood Configuration	A	B	C	D	E
PFL-LED-12L-PC-WF-40-80CRI	2.34	1.56	0.78	0.39	0.19
PFL-LED-12L-PC-WF-50-80CRI	2.18	1.45	0.73	0.36	0.18
PFL-LED-16L-PC-WF-40-80CRI	3.22	2.15	1.07	0.54	0.27
PFL-LED-16L-PC-WF-50-80CRI	3.00	2.00	1.00	0.50	0.25

Multiply the FC values on the 20' Set Back chart by the Alternate Set Back factors to obtain the corresponding values for the Set Back desired.

Multipliers for Alternate Set Backs	
SetBack	Factor
12	2.78
14	2.04
16	1.56
18	1.23
20	1.00
22	0.83
24	0.69
26	0.59
28	0.51
30	0.44





# Mirada Medium (MRM)

## Outdoor LED Area Light



### OVERVIEW

Lumen Package	7,000 - 48,000
Wattage Range	48 - 401
Efficacy Range (LPW)	117 - 160
Weight lbs(kg)	30 (13.6)

### 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<sup>®</sup> 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, 5W, FT, FTA and AM.
- Silicone optical material does not yellow or crack with age and provides a typical light transmittance of 93%.
- 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 house-side shield (IH) options available for improved backlight control without sacrificing street side performance. See page 3 for more details.

### 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 on Page 5)
- 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.
- 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<sup>™</sup> motion and photocell sensor (see page 9 for more details). Fixtures operate independently and can be commissioned via iOS or Android configuration app
- LSI's AirLink<sup>™</sup> wireless control system options reduce energy and maintenance costs while optimizing light quality 24/7. (see page 9 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. (See drawing on page 9)

### 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.
- Suitable for wet Locations.
- IP66 rated Luminaire per IEC 60598.
- 3G rated for ANSI C136.31 high vibration applications are qualified.
- DesignLights Consortium<sup>®</sup> (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

*Specifications and dimensions subject to change without notice.*





# Mirada Medium Outdoor LED Area Light

## ORDERING GUIDE

[Back to Quick Links](#)TYPICAL ORDER EXAMPLE: **MRM LED 36L SIL FTA UNV DIM 50 70CRI ALSCS04 BRZ IL**

Luminaire Prefix	Light Source	Lumen Package	Light Output	Distribution	Orientation <sup>2</sup>	Voltage	Driver
<b>MRM - Mirada</b>	<b>LED</b>	7L - 7,000 lms 9L - 9,000 lms 12L - 12,000 lms 18L - 18,000 lms <b>24L - 24,000 lms</b> 30L - 30,000 lms 36L - 36,000 lms 42L - 42,000 lms 48L - 48,000 lms Custom Lumen Packages <sup>1</sup>	<b>SIL - Silicone</b>	2 - Type 2 3 - Type 3 5W - Type 5 Wide FT - Forward Throw <b>FTA - Forward Throw Automotive</b> AM - Automotive Merchandise	(blank) - standard L - Optics rotated left 90° R - Optics rotated right 90°	<b>UNV - Universal Voltage (120-277V)</b> HV - High Voltage (347-480V)	<b>DIM - 0-10V Dimming (0-10%)</b>
Color Temp		Color Rendering		Finish		Options	
50 - 5,000 CCT 40 - 4,000 CCT 30 - 3,000 CCT AMB - Phosphor Converted Amber <sup>12</sup>		<b>70CRI - 70 CRI</b>		BLK - Black BRZ - Dark Bronze GMG - Gun Metal Gray GPT - Graphite MSV - Metallic Silver PLP - Platinum Plus SVG - Satin Verde Green WHT - White		(Blank) - None <b>IH - Integral Houseside Shield<sup>2</sup></b> IL - Integral Louver (Sharp Spill Light Cutoff) <sup>2</sup>	

### Controls (Choose One)

(Blank) - None	<b>Stand-Alone Controls</b> 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>	<b>Lutron Limelight Controls</b> LLC - LimeLight Integral Wireless Radio Control by Lutron <sup>4</sup> LLCS1 - Limelight Integral Wireless Radio Control and PIR Motion/Daylight Sensor by Lutron 8-15' mt height <sup>4</sup> LLCS2 - Limelight Integral Wireless Radio Control and PIR Motion/Daylight Sensor by Lutron 16-30' mt height <sup>4</sup> LLCS3 - Limelight Integral Wireless Radio Control and PIR Motion/Daylight Sensor by Lutron 31-40' mt height <sup>4</sup>
<b>Wireless Controls System</b> ALSC - AirLink Synapse Control System ALSCH - AirLink Synapse Control System Host / Satellite <sup>3</sup> ALSCHS02 - AirLink Synapse Control System Host / Satellite with 12-20' Motion Sensor ALSCHS02 - AirLink Synapse Control System Host / Satellite with 12-20' Motion Sensor <sup>3</sup> ALSCHS04 - AirLink Synapse Control System with 20-40' Motion Sensor ALSCHS04 - AirLink Synapse Control System Host / Satellite with 20-40' Motion Sensor <sup>3</sup> ALBCS1 - AirLink Blue Wireless Motion & Photo Sensor Controller (8-24' mounting height) ALBCS2 - AirLink Blue Wireless Motion & Photo Sensor Controller (25-40' mounting height)	<b>Button Type Photocells</b> PCI120 - 120V PCI208-277 - 208 - 277V PCI347 - 347V	

## Accessory Ordering Information<sup>7</sup>

Controls Accessories		Order Number <sup>10</sup>
Description		
PC120 Photocell for use with CR7P option (120V) <sup>8</sup>		122514
PC208-277 Photocell for use with CR7P option (208V, 240V, 277V) <sup>8</sup>		122515
Twist Lock Photocell (347V) for use with CR7P <sup>8</sup>		122516
Twist Lock Photocell (480V) for use with CR7P <sup>8</sup>		1225180
AirLink 5 Pin Twist Lock Controller <sup>8</sup>		661409
AirLink 7 Pin Twist Lock Controller <sup>8</sup>		661410
PMOS24-24V Pole-Mounted Occupancy Sensor (24V)		663284CLR
Shorting Cap for use with CR7P		149328

Mounting Accessories <sup>9</sup>		Order Number <sup>10</sup>
Description		
Universal Mounting Bracket		684616CLR
Adjustable Slip Fitter (2" - 2 3/8" Tenon)		688138CLR
Horizontal Slip Fitter (2" - 2 3/8" Tenon)		652761CLR
Quick Mount Pole Bracket (Square Pole)		687073CLR
Quick Mount Pole Bracket (4-5" Round Pole)		689903CLR
15 Tilt Quick Mount Pole Bracket (Square Pole)		688003CLR
15 Tilt Quick Mount Pole Bracket (4-5" Round Pole)		689905CLR
Wall Mount Bracket		382132CLR
Wood Pole Bracket (6" Minimum Pole Diameter)		751219CLR

Fusing Options <sup>11</sup>		Shielding Options	
Description	Order Number	Mirada Small	See Shielding Guide
Single Fusing (120V)	See Fusing Accessory Guide	Mirada Medium	
Single Fusing (277V)		Mirada Large	
Double Fusing (208V, 240V)		Zone Medium	
Double Fusing (480V)		Zone Large	
Double Fusing (347V)		Slice Medium	

Miscellaneous Accessories		Order Number
Description		
Integral Louver/Shield		690981
Integral House Side Shield		743415
10' Linear Bird Spike Kit (3' Recommended per Luminaire)		751632

### FOOTNOTES:

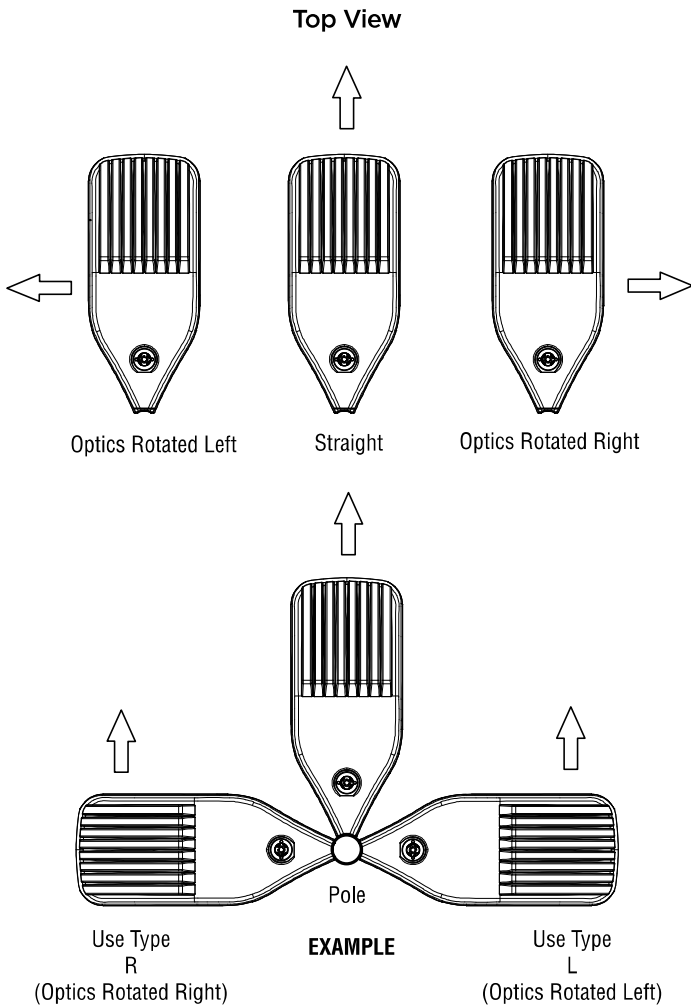
- Custom lumen and wattage packages available, consult factory. Values are within industry standard tolerances but not DLC listed.
- Not available with 5W distribution
- Consult Factory for availability.
- Not available in HV.
- IMSBT is field configurable via the LSI app that can be downloaded from your smartphone's native app store.
- 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 and 12L Lumen Packages. Consult factory for lead time and availability.





# Mirada Medium Outdoor LED Area Light

## OPTICS ROTATION



## ACCESSORIES/OPTIONS

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

Accessory louver and shield available for improved backlight control without sacrificing street side performance. LSI's Integral Louver (L) 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 with the optical distribution.

### Luminaire Shown with IMSBT & IL/IH Options



### 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 PCR 7P





# Mirada Medium Outdoor LED Area Light

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## PERFORMANCE

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	
7L	2	70	7560	157	B2-U0-G2	7560	157	B2-U0-G2	7560	157	B2-U0-G2	48
	3		7616	159	B1-U0-G2	7616	159	B1-U0-G2	7616	159	B1-U0-G2	
	5W		7292	152	B3-U0-G1	7292	152	B3-U0-G1	7292	152	B3-U0-G1	
	FT		7562	158	B2-U0-G2	7562	158	B2-U0-G2	7562	158	B2-U0-G2	
	FTA		7595	158	B2-U0-G2	7595	158	B2-U0-G2	7595	158	B2-U0-G2	
	AM		7687	160	B1-U0-G1	7687	160	B1-U0-G1	7687	160	B1-U0-G1	
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	
	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	
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	
	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	
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	
	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	
24L	2	70	25957	147	B4-U0-G3	25957	147	B4-U0-G3	25957	147	B4-U0-G3	176
	3		26149	149	B3-U0-G4	26149	149	B3-U0-G4	26149	149	B3-U0-G4	
	5W		25037	142	B5-U0-G3	25037	142	B5-U0-G3	25037	142	B5-U0-G3	
	FT		25964	148	B3-U0-G4	25964	148	B3-U0-G4	25964	148	B3-U0-G4	
	FTA		26077	148	B3-U0-G3	26077	148	B3-U0-G3	26077	148	B3-U0-G3	
	AM		26393	150	B3-U0-G2	26393	150	B3-U0-G2	26393	150	B3-U0-G2	
30L	2	70	32417	140	B4-U0-G3	32417	140	B4-U0-G3	32417	140	B4-U0-G3	232
	3		32656	141	B3-U0-G4	32656	141	B3-U0-G4	32656	141	B3-U0-G4	
	5W		31267	135	B5-U0-G3	31267	135	B5-U0-G3	31267	135	B5-U0-G3	
	FT		32424	140	B3-U0-G4	32424	140	B3-U0-G4	32424	140	B3-U0-G4	
	FTA		32566	140	B4-U0-G3	32566	140	B4-U0-G3	32566	140	B4-U0-G3	
	AM		32960	142	B3-U0-G3	32960	142	B3-U0-G3	32960	142	B3-U0-G3	
36L	2	70	38275	133	B4-U0-G4	38275	133	B4-U0-G4	38275	133	B4-U0-G4	288
	3		38557	134	B4-U0-G5	38557	134	B4-U0-G5	38557	134	B4-U0-G5	
	5W		36917	128	B5-U0-G4	36917	128	B5-U0-G4	36917	128	B5-U0-G4	
	FT		38283	133	B4-U0-G5	38283	133	B4-U0-G5	38283	133	B4-U0-G5	
	FTA		38450	134	B4-U0-G4	38450	134	B4-U0-G4	38450	134	B4-U0-G4	
	AM		38916	135	B3-U0-G3	38916	135	B3-U0-G3	38916	135	B3-U0-G3	





# Mirada Medium Outdoor LED Area Light

## 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	
42L	2	70	44118	125	B5-U0-G4	44118	125	B5-U0-G4	44118	125	B5-U0-G4	354
	3		44444	126	B4-U0-G5	44444	126	B4-U0-G5	44444	126	B4-U0-G5	
	5W		42555	120	B5-U0-G4	42555	120	B5-U0-G4	42555	120	B5-U0-G4	
	FT		44130	125	B4-U0-G5	44130	125	B4-U0-G5	44130	125	B4-U0-G5	
	FTA		44322	125	B4-U0-G4	44322	125	B4-U0-G4	44322	125	B4-U0-G4	
	AM		44859	127	B4-U0-G3	44859	127	B4-U0-G3	44859	127	B4-U0-G3	
48L	2	70	48795	122	B5-U0-G4	48795	122	B5-U0-G4	48795	122	B5-U0-G4	401
	3		49156	123	B4-U0-G5	49156	123	B4-U0-G5	49156	123	B4-U0-G5	
	5W		47066	117	B5-U0-G4	47066	117	B5-U0-G4	47066	117	B5-U0-G4	
	FT		48809	122	B4-U0-G5	48809	122	B4-U0-G5	48809	122	B4-U0-G5	
	FTA		49021	122	B5-U0-G4	49021	122	B5-U0-G4	49021	122	B5-U0-G4	
	AM		49615	124	B4-U0-G3	49615	124	B4-U0-G3	49615	124	B4-U0-G3	

ELECTRICAL DATA (AMPS)*						
Lumens	120V	208V	240V	277V	347V	480V
7L	0.40	0.23	0.20	0.17	0.14	0.10
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	1.47	0.85	0.73	0.64	0.51	0.37
30L	1.93	1.12	0.97	0.84	0.67	0.48
36L	2.40	1.38	1.20	1.04	0.83	0.60
42L	2.95	1.70	1.48	1.28	1.02	0.74
48L	3.4A	1.9A	1.7A	1.5A	1.2A	0.8A

ELECTRICAL DATA - PHOSPHOR CONVERTED AMBER (AMPS)*							
Lumens	Watts	120V	208V	240V	277V	347V	480V
9L	74.3	0.6A	0.4A	0.3A	0.3A	0.2A	0.2A
12L	102.9	0.9A	0.5A	0.4A	0.4A	0.3A	0.2A

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

RECOMMENDED LUMEN MAINTENANCE <sup>1</sup> (7-18L)					
Ambient	Initial <sup>2</sup>	25h <sup>2</sup>	50hr <sup>2</sup>	75hr <sup>2</sup>	100hr <sup>2</sup>
0-50 C	100%	96%	92%	88%	84%

RECOMMENDED LUMEN MAINTENANCE <sup>1</sup> (24-48L)					
Ambient	Initial <sup>2</sup>	25h <sup>2</sup>	50hr <sup>2</sup>	75hr <sup>2</sup>	100hr <sup>2</sup>
0-40 C	100%	100%	97%	94%	92%

- Lumen maintenance values at 25C are calculated per TM-21 based on LM-80 data and in-situ testing.
- 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.
- 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 610nm)			Wattage
		Delivered Lumens	Efficacy	BUG Rating	
9L	2	5848	80	B2-U0-G2	74
	2 - IL	3644	50	B0-U0-G1	
	3	6018	82	B1-U0-G2	
	3 - IL	4468	61	B0-U0-G2	
	5W	5471	74	B3-U0-G1	
	FT	5801	79	B1-U0-G2	
	FT - IL	3649	50	B0-U0-G1	
	FTA	5924	81	B1-U0-G1	
	FTA - IL	4243	58	B1-U0-G1	
12L	2	7530	74	B2-U0-G2	102
	2 - IL	4692	46	B0-U0-G1	
	3	7749	76	B1-U0-G2	
	3 - IL	5753	57	B0-U0-G2	
	5W	7045	69	B3-U0-G2	
	FT	7470	73	B2-U0-G2	
	FT - IL	4699	46	B0-U0-G2	
	FTA	7628	75	B2-U0-G2	
	FTA-IL	5464	54	B1-U0-G1	

\*LEDs are frequently updated therefore values are nominal.





# Mirada Medium Outdoor LED Area Light

## 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 <https://www.lsicorp.com/product/mirada-medium/> for detailed photometric data.

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

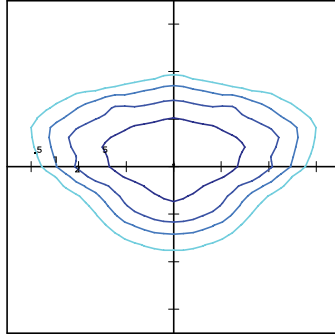
#### LUMINAIRE DATA

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

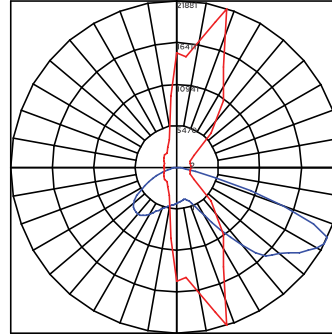
#### Zonal Lumen Summary

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%

#### ISO FOOTCANDLE



#### POLAR CURVE



25' Mounting Height/ 25' Grid Spacing  
■ 5 FC ■ 2 FC ■ 1 FC ■ 0.5 FC

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

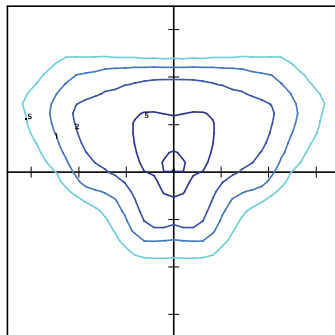
#### LUMINAIRE DATA

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

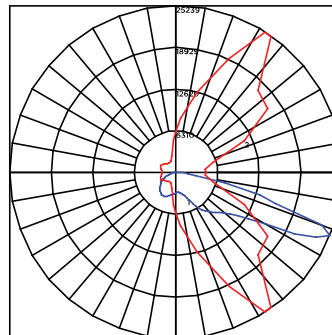
#### Zonal Lumen Summary

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%

#### ISO FOOTCANDLE



#### POLAR CURVE



25' Mounting Height/ 25' Grid Spacing  
■ 5 FC ■ 2 FC ■ 1 FC ■ 0.5 FC

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

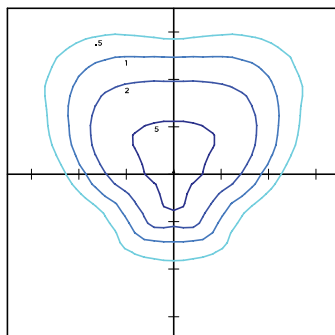
#### LUMINAIRE DATA

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

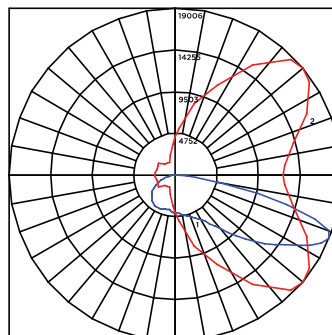
#### Zonal Lumen Summary

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%

#### ISO FOOTCANDLE



#### POLAR CURVE



20' Mounting Height/ 15' Grid Spacing  
■ 20 FC ■ 10 FC ■ 5 FC ■ 2 FC







# Mirada Medium Outdoor LED Area Light

## PHOTOMETRICS (CONT)

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

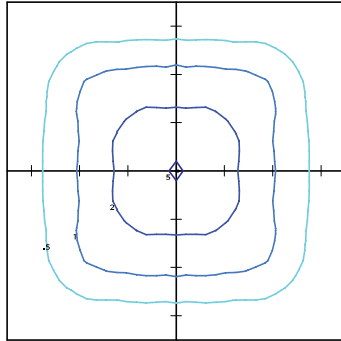
#### LUMINAIRE DATA

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%

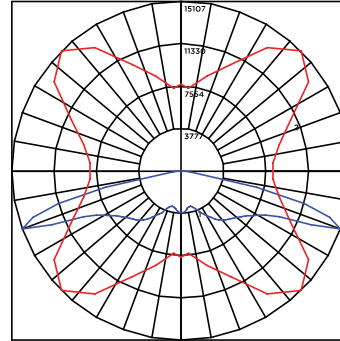
#### ISO FOOTCANDLE



25' Mounting Height/ 25' Grid Spacing

■ 5 FC ■ 2 FC ■ 1 FC ■ 0.5 FC

#### POLAR CURVE



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

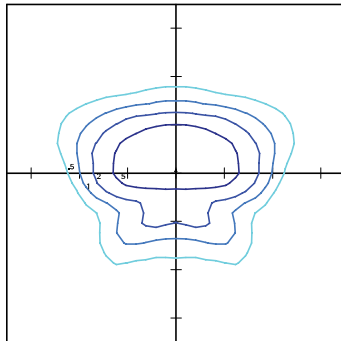
#### LUMINAIRE DATA

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%

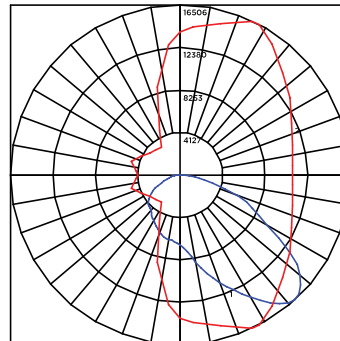
#### ISO FOOTCANDLE



25' Mounting Height/ 25' Grid Spacing

■ 5 FC ■ 2 FC ■ 1 FC ■ 0.5 FC

#### POLAR CURVE



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

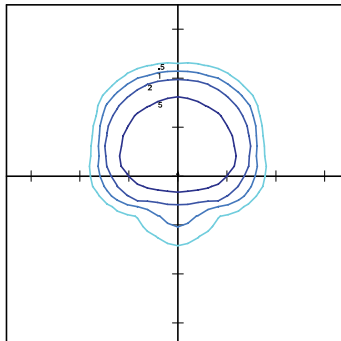
#### LUMINAIRE DATA

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	9%
Medium (30-60)°	22026	43%
High (60-80)°	4192	48%
Very High (80-90)°	379	1%
Uplight (90-180)°	0	0%
Total Flux	32960	100%

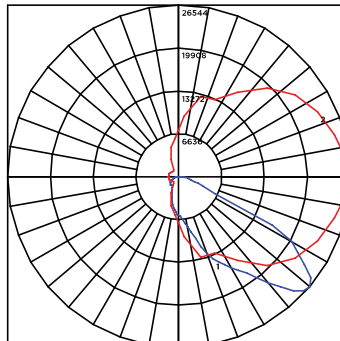
#### ISO FOOTCANDLE



25' Mounting Height/ 25' Grid Spacing

■ 5 FC ■ 2 FC ■ 1 FC ■ 0.5 FC

#### POLAR CURVE



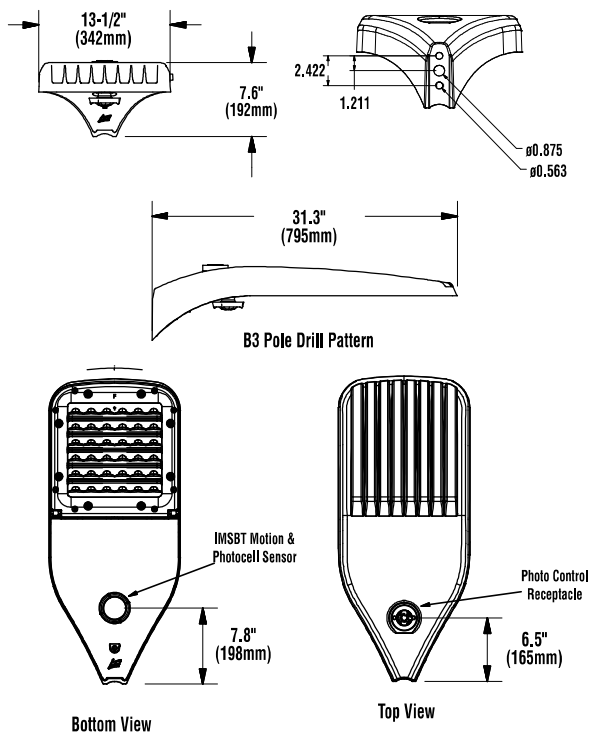




# Mirada Medium Outdoor LED Area Light

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## PRODUCT DIMENSIONS



LUMINAIRE EPA CHART - MRM									
Tilt Degree		0°	30°	45°	Tilt Degree		0°	30°	45°
■	Single	0.5	1.5	1.9	⊕	T90°	1.0	2.5	2.8
■	D180°	1.0	1.5	1.9	⊕	TN120°	1.0	3.3	3.9
■	D90°	0.8	1.9	2.3	⊕	Q90°	1.0	2.5	2.8

## CONTROLS

### AirLink Wireless Lighting Controller

The AirLink integrated controller is a California Title 24 compliant lighting controller that provides real-time light monitoring and control with utility-grade power monitoring. It includes a 24V sensor input and power supply to connect a sensor into the outdoor AirLink wireless lighting system. The wireless integrated controller is compatible with this fixture.

Click the link below to learn more details about AirLink.

<https://www.lsicorp.com/wp-content/uploads/documents/products/airlink-outdoor-specsheet.pdf>

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

Slim low profile sensor provides multi-level control based on motion and/or daylight. Sensor controls 0-10 VDC LED drivers and is rated for cold and wet locations (-30° C to 70° C). 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 the link below to learn more details about IMSBT.

<https://www.lsicorp.com/wp-content/uploads/documents/products/imsbt-specsheet.pdf>

### AirLink Blue

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 the link below to learn more details about AirLink Blue.

<https://www.lsicorp.com/product/airlink-blue/>





# Mirada Medium Outdoor LED Area Light

## POLES & BRACKETS

LSI offers a full line of poles and mounting accessories to complete your lighting assembly. Aluminum and steel in both square and round shafts. In addition, LSI offers round tapered, fluted and hinge based poles. Designed and engineered for durability and protected with our oven baked DuraGrip Protection System. Also available with our DuraGrip+ Protection system for unmatched corrosion resistance and an extended warranty. American made in our Ohio facility with industry leading lead times.

Click the link below to learn more details about poles & brackets.

<https://www.lsicorp.com/products/poles-brackets/>



### BKA UMB CLR

The 3G rated UMB allows for seamless integration of LSI luminaires onto existing/ retrofit or new construction poles. The UMB was designed for square or round (tapered or straight) poles with two mounting hole spacings between 3.5" – 5".



### BKS PQM15 CLR

The Pole Quick Mount Bracket allows for preset 15° up tilt of LSI luminaires for greater throw of light and increased vertical illumination as well as fast installation onto poles with LSI's 3" or 5" bolt pattern.



### BKA ASF CLR

The adjustable Slip Fitter is a 3G rated rugged die cast aluminum adapter to mount LSI luminaires onto a 2" iron pipe, 2 3/8 OD tenon. The Adjustable Slip Fitter can be rotated 180° allowing for tilting LSI luminaires up to 45° and 90° when using a vertical tenon.



### BKS PQMH CLR

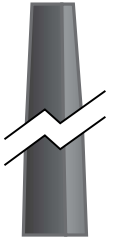
The Pole Quick Mount Bracket allows for lightning fast installation of LSI luminaires onto existing and new construction poles with LSI's B3 or B5 standard pole bolt patterns.



Square Pole  
14'-39'



Round Pole  
10'-30'



Tapered Pole  
20'-39'





# Mirada Medium (MRM)

## Outdoor LED Area Light



### OVERVIEW

Lumen Package	7,000 - 48,000
Wattage Range	48 - 401
Efficacy Range (LPW)	117 - 160
Weight lbs(kg)	30 (13.6)

### 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<sup>®</sup> 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, 5W, FT, FTA and AM.
- Silicone optical material does not yellow or crack with age and provides a typical light transmittance of 93%.
- 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 house-side shield (IH) options available for improved backlight control without sacrificing street side performance. See page 3 for more details.

### 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 on Page 5)
- 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.
- 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<sup>™</sup> motion and photocell sensor (see page 9 for more details). Fixtures operate independently and can be commissioned via iOS or Android configuration app
- LSI's AirLink<sup>™</sup> wireless control system options reduce energy and maintenance costs while optimizing light quality 24/7. (see page 9 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. (See drawing on page 9)

### 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.
- Suitable for wet Locations.
- IP66 rated Luminaire per IEC 60598.
- 3G rated for ANSI C136.31 high vibration applications are qualified.
- DesignLights Consortium<sup>®</sup> (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

*Specifications and dimensions subject to change without notice.*





# Mirada Medium Outdoor LED Area Light

## ORDERING GUIDE

[Back to Quick Links](#)TYPICAL ORDER EXAMPLE: **MRM LED 36L SIL FTA UNV DIM 50 70CRI ALSCS04 BRZ IL**

Luminaire Prefix	Light Source	Lumen Package	Light Output	Distribution	Orientation <sup>2</sup>	Voltage	Driver
<b>MRM - Mirada</b>	<b>LED</b>	<b>7L - 7,000 lms</b> 9L - 9,000 lms 12L - 12,000 lms 18L - 18,000 lms 24L - 24,000 lms 30L - 30,000 lms 36L - 36,000 lms 42L - 42,000 lms 48L - 48,000 lms Custom Lumen Packages <sup>1</sup>	<b>SIL - Silicone</b>	2 - Type 2 3 - Type 3 5W - Type 5 Wide FT - Forward Throw FTA - Forward Throw Automotive <b>AM - Automotive Merchandise</b>	(blank) - standard L - Optics rotated left 90° R - Optics rotated right 90°	<b>UNV - Universal Voltage (120-277V)</b> HV - High Voltage (347-480V)	<b>DIM - 0-10V Dimming (0-10%)</b>
Color Temp		Color Rendering		Finish		Options	
50 - 5,000 CCT 40 - 4,000 CCT 30 - 3,000 CCT AMB - Phosphor Converted Amber <sup>12</sup>		70CRI - 70 CRI		BLK - Black BRZ - Dark Bronze GMG - Gun Metal Gray GPT - Graphite MSV - Metallic Silver PLP - Platinum Plus SVG - Satin Verde Green WHT - White		(Blank) - None <b>IH - Integral Houseside Shield<sup>2</sup></b> IL - Integral Louver (Sharp Spill Light Cutoff) <sup>2</sup>	

### Controls (Choose One)

(Blank) - None	<b>Stand-Alone Controls</b> 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>	<b>Lutron Limelight Controls</b> LLC - LimeLight Integral Wireless Radio Control by Lutron <sup>4</sup> LLCS1 - Limelight Integral Wireless Radio Control and PIR Motion/Daylight Sensor by Lutron 8-15' mt height <sup>4</sup> LLCS2 - Limelight Integral Wireless Radio Control and PIR Motion/Daylight Sensor by Lutron 16-30' mt height <sup>4</sup> LLCS3 - Limelight Integral Wireless Radio Control and PIR Motion/Daylight Sensor by Lutron 31-40' mt height <sup>4</sup>
<b>Wireless Controls System</b> ALSC - AirLink Synapse Control System ALSCH - AirLink Synapse Control System Host / Satellite <sup>3</sup> ALSCS02 - AirLink Synapse Control System with 12-20' Motion Sensor ALSCS02 - AirLink Synapse Control System Host / Satellite with 12-20' Motion Sensor <sup>3</sup> ALSCS04 - AirLink Synapse Control System with 20-40' Motion Sensor ALSCS04 - AirLink Synapse Control System Host / Satellite with 20-40' Motion Sensor <sup>3</sup> ALBCS1 - AirLink Blue Wireless Motion & Photo Sensor Controller (8-24' mounting height) ALBCS2 - AirLink Blue Wireless Motion & Photo Sensor Controller (25-40' mounting height)	<b>Button Type Photocells</b> PCI120 - 120V PCI208-277 - 208 - 277V PCI347 - 347V	

## Accessory Ordering Information<sup>7</sup>

Controls Accessories	
Description	Order Number <sup>10</sup>
PC120 Photocell for use with CR7P option (120V) <sup>8</sup>	122514
PC208-277 Photocell for use with CR7P option (208V, 240V, 277V) <sup>8</sup>	122515
Twist Lock Photocell (347V) for use with CR7P <sup>8</sup>	122516
Twist Lock Photocell (480V) for use with CR7P <sup>8</sup>	1225180
AirLink 5 Pin Twist Lock Controller <sup>8</sup>	661409
AirLink 7 Pin Twist Lock Controller <sup>8</sup>	661410
PMOS24-24V Pole-Mounted Occupancy Sensor (24V)	663284CLR
Shorting Cap for use with CR7P	149328

Mounting Accessories <sup>9</sup>	
Description	Order Number <sup>10</sup>
Universal Mounting Bracket	684616CLR
Adjustable Slip Fitter (2" - 2 3/8" Tenon)	688138CLR
Horizontal Slip Fitter (2" - 2 3/8" Tenon)	652761CLR
Quick Mount Pole Bracket (Square Pole)	687073CLR
Quick Mount Pole Bracket (4-5" Round Pole)	689903CLR
15 Tilt Quick Mount Pole Bracket (Square Pole)	688003CLR
15 Tilt Quick Mount Pole Bracket (4-5" Round Pole)	689905CLR
Wall Mount Bracket	382132CLR
Wood Pole Bracket (6" Minimum Pole Diameter)	751219CLR

Fusing Options <sup>11</sup>		Shielding Options	
Description	Order Number		
Single Fusing (120V)	<a href="#">See Fusing Accessory Guide</a>	Mirada Small	<a href="#">See Shielding Guide</a>
Single Fusing (277V)		Mirada Medium	
Double Fusing (208V, 240V)		Mirada Large	
Double Fusing (480V)		Zone Medium	
Double Fusing (347V)		Zone Large	
		Slice Medium	

Miscellaneous Accessories	
Description	Order Number
Integral Louver/Shield	690981
Integral House Side Shield	743415
10' Linear Bird Spike Kit (3' Recommended per Luminaire)	751632

### FOOTNOTES:

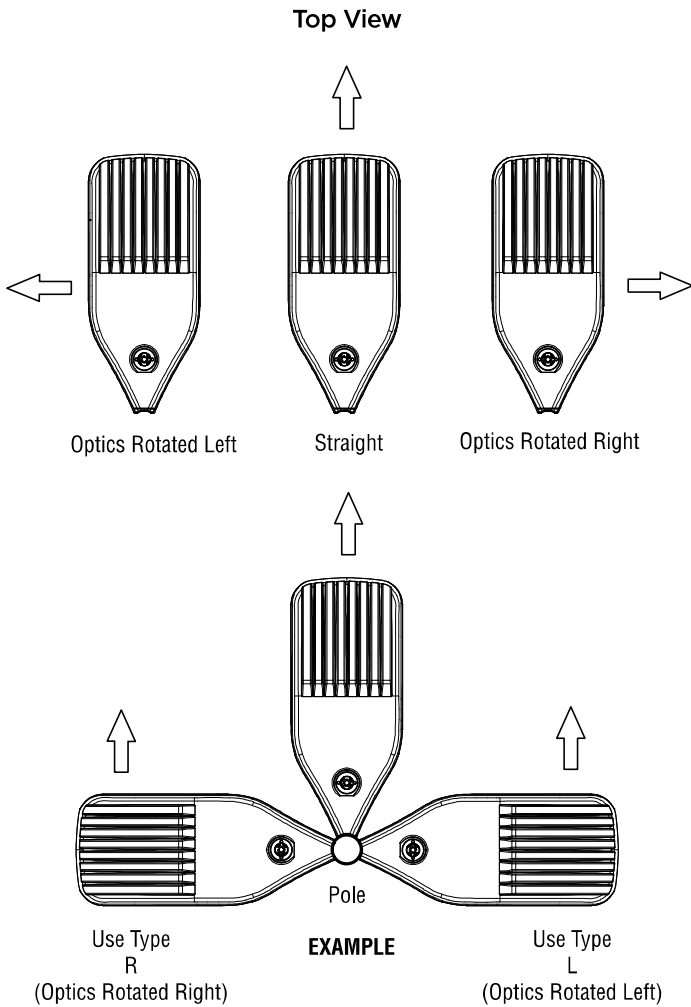
- Custom lumen and wattage packages available, consult factory. Values are within industry standard tolerances but not DLC listed.
- Not available with 5W distribution
- Consult Factory for availability.
- Not available in HV.
- IMSBT is field configurable via the LSI app that can be downloaded from your smartphone's native app store.
- 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 and 12L Lumen Packages. Consult factory for lead time and availability.





# Mirada Medium Outdoor LED Area Light

## OPTICS ROTATION



## ACCESSORIES/OPTIONS

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

Accessory louver and shield available for improved backlight control without sacrificing street side performance. LSI's Integral Louver (L) 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 with the optical distribution.

### Luminaire Shown with IMSBT & IL/IH Options



### 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 PCR 7P





# Mirada Medium Outdoor LED Area Light

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## PERFORMANCE

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	
7L	2	70	7560	157	B2-U0-G2	7560	157	B2-U0-G2	7560	157	B2-U0-G2	48
	3		7616	159	B1-U0-G2	7616	159	B1-U0-G2	7616	159	B1-U0-G2	
	5W		7292	152	B3-U0-G1	7292	152	B3-U0-G1	7292	152	B3-U0-G1	
	FT		7562	158	B2-U0-G2	7562	158	B2-U0-G2	7562	158	B2-U0-G2	
	FTA		7595	158	B2-U0-G2	7595	158	B2-U0-G2	7595	158	B2-U0-G2	
	AM		7687	160	B1-U0-G1	7687	160	B1-U0-G1	7687	160	B1-U0-G1	
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	
	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	
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	
	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	
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	
	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	
24L	2	70	25957	147	B4-U0-G3	25957	147	B4-U0-G3	25957	147	B4-U0-G3	176
	3		26149	149	B3-U0-G4	26149	149	B3-U0-G4	26149	149	B3-U0-G4	
	5W		25037	142	B5-U0-G3	25037	142	B5-U0-G3	25037	142	B5-U0-G3	
	FT		25964	148	B3-U0-G4	25964	148	B3-U0-G4	25964	148	B3-U0-G4	
	FTA		26077	148	B3-U0-G3	26077	148	B3-U0-G3	26077	148	B3-U0-G3	
	AM		26393	150	B3-U0-G2	26393	150	B3-U0-G2	26393	150	B3-U0-G2	
30L	2	70	32417	140	B4-U0-G3	32417	140	B4-U0-G3	32417	140	B4-U0-G3	232
	3		32656	141	B3-U0-G4	32656	141	B3-U0-G4	32656	141	B3-U0-G4	
	5W		31267	135	B5-U0-G3	31267	135	B5-U0-G3	31267	135	B5-U0-G3	
	FT		32424	140	B3-U0-G4	32424	140	B3-U0-G4	32424	140	B3-U0-G4	
	FTA		32566	140	B4-U0-G3	32566	140	B4-U0-G3	32566	140	B4-U0-G3	
	AM		32960	142	B3-U0-G3	32960	142	B3-U0-G3	32960	142	B3-U0-G3	
36L	2	70	38275	133	B4-U0-G4	38275	133	B4-U0-G4	38275	133	B4-U0-G4	288
	3		38557	134	B4-U0-G5	38557	134	B4-U0-G5	38557	134	B4-U0-G5	
	5W		36917	128	B5-U0-G4	36917	128	B5-U0-G4	36917	128	B5-U0-G4	
	FT		38283	133	B4-U0-G5	38283	133	B4-U0-G5	38283	133	B4-U0-G5	
	FTA		38450	134	B4-U0-G4	38450	134	B4-U0-G4	38450	134	B4-U0-G4	
	AM		38916	135	B3-U0-G3	38916	135	B3-U0-G3	38916	135	B3-U0-G3	





# Mirada Medium Outdoor LED Area Light

## 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	
42L	2	70	44118	125	B5-U0-G4	44118	125	B5-U0-G4	44118	125	B5-U0-G4	354
	3		44444	126	B4-U0-G5	44444	126	B4-U0-G5	44444	126	B4-U0-G5	
	5W		42555	120	B5-U0-G4	42555	120	B5-U0-G4	42555	120	B5-U0-G4	
	FT		44130	125	B4-U0-G5	44130	125	B4-U0-G5	44130	125	B4-U0-G5	
	FTA		44322	125	B4-U0-G4	44322	125	B4-U0-G4	44322	125	B4-U0-G4	
	AM		44859	127	B4-U0-G3	44859	127	B4-U0-G3	44859	127	B4-U0-G3	
48L	2	70	48795	122	B5-U0-G4	48795	122	B5-U0-G4	48795	122	B5-U0-G4	401
	3		49156	123	B4-U0-G5	49156	123	B4-U0-G5	49156	123	B4-U0-G5	
	5W		47066	117	B5-U0-G4	47066	117	B5-U0-G4	47066	117	B5-U0-G4	
	FT		48809	122	B4-U0-G5	48809	122	B4-U0-G5	48809	122	B4-U0-G5	
	FTA		49021	122	B5-U0-G4	49021	122	B5-U0-G4	49021	122	B5-U0-G4	
	AM		49615	124	B4-U0-G3	49615	124	B4-U0-G3	49615	124	B4-U0-G3	

ELECTRICAL DATA (AMPS)*						
Lumens	120V	208V	240V	277V	347V	480V
7L	0.40	0.23	0.20	0.17	0.14	0.10
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	1.47	0.85	0.73	0.64	0.51	0.37
30L	1.93	1.12	0.97	0.84	0.67	0.48
36L	2.40	1.38	1.20	1.04	0.83	0.60
42L	2.95	1.70	1.48	1.28	1.02	0.74
48L	3.4A	1.9A	1.7A	1.5A	1.2A	0.8A

ELECTRICAL DATA - PHOSPHOR CONVERTED AMBER (AMPS)*							
Lumens	Watts	120V	208V	240V	277V	347V	480V
9L	74.3	0.6A	0.4A	0.3A	0.3A	0.2A	0.2A
12L	102.9	0.9A	0.5A	0.4A	0.4A	0.3A	0.2A

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

RECOMMENDED LUMEN MAINTENANCE <sup>1</sup> (7-18L)					
Ambient	Initial <sup>2</sup>	25h <sup>2</sup>	50hr <sup>2</sup>	75hr <sup>2</sup>	100hr <sup>2</sup>
0-50 C	100%	96%	92%	88%	84%

RECOMMENDED LUMEN MAINTENANCE <sup>1</sup> (24-48L)					
Ambient	Initial <sup>2</sup>	25h <sup>2</sup>	50hr <sup>2</sup>	75hr <sup>2</sup>	100hr <sup>2</sup>
0-40 C	100%	100%	97%	94%	92%

- Lumen maintenance values at 25C are calculated per TM-21 based on LM-80 data and in-situ testing.
- 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.
- 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 610nm)			Wattage
		Delivered Lumens	Efficacy	BUG Rating	
9L	2	5848	80	B2-U0-G2	74
	2 - IL	3644	50	B0-U0-G1	
	3	6018	82	B1-U0-G2	
	3 - IL	4468	61	B0-U0-G2	
	5W	5471	74	B3-U0-G1	
	FT	5801	79	B1-U0-G2	
	FT - IL	3649	50	B0-U0-G1	
	FTA	5924	81	B1-U0-G1	
	FTA - IL	4243	58	B1-U0-G1	
12L	2	7530	74	B2-U0-G2	102
	2 - IL	4692	46	B0-U0-G1	
	3	7749	76	B1-U0-G2	
	3 - IL	5753	57	B0-U0-G2	
	5W	7045	69	B3-U0-G2	
	FT	7470	73	B2-U0-G2	
	FT - IL	4699	46	B0-U0-G2	
	FTA	7628	75	B2-U0-G2	
	FTA-IL	5464	54	B1-U0-G1	

\*LEDs are frequently updated therefore values are nominal.







# Mirada Medium Outdoor LED Area Light

## 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 <https://www.lsicorp.com/product/mirada-medium/> for detailed photometric data.

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

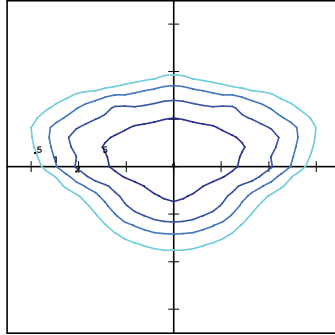
#### LUMINAIRE DATA

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

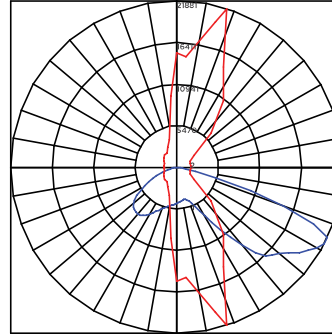
#### Zonal Lumen Summary

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%

#### ISO FOOTCANDLE



#### POLAR CURVE



25' Mounting Height/ 25' Grid Spacing

■ 5 FC ■ 2 FC ■ 1 FC ■ 0.5 FC

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

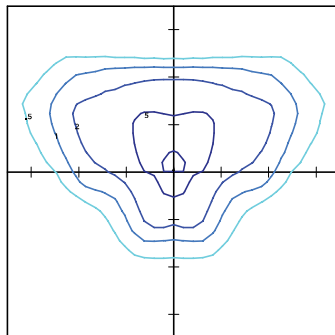
#### LUMINAIRE DATA

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

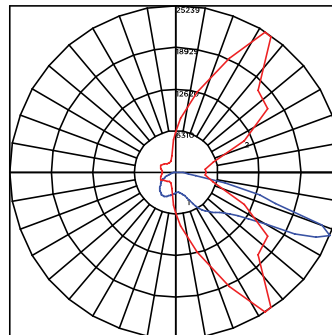
#### Zonal Lumen Summary

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%

#### ISO FOOTCANDLE



#### POLAR CURVE



25' Mounting Height/ 25' Grid Spacing

■ 5 FC ■ 2 FC ■ 1 FC ■ 0.5 FC

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

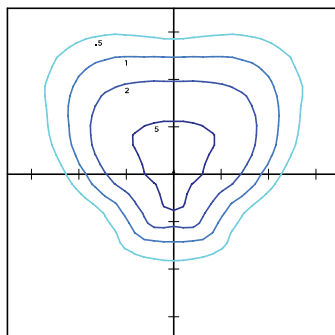
#### LUMINAIRE DATA

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

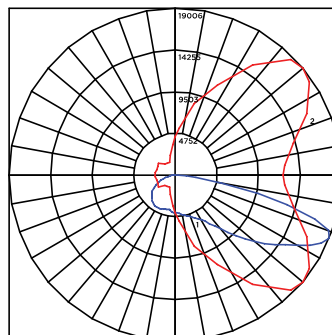
#### Zonal Lumen Summary

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%

#### ISO FOOTCANDLE



#### POLAR CURVE



20' Mounting Height/ 15' Grid Spacing

■ 20 FC ■ 10 FC ■ 5 FC ■ 2 FC





# Mirada Medium Outdoor LED Area Light

## PHOTOMETRICS (CONT)

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

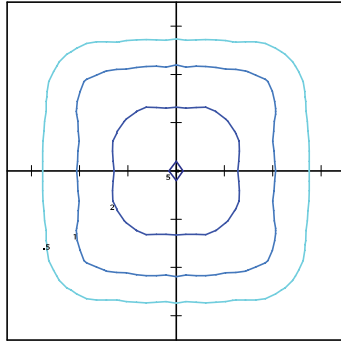
#### LUMINAIRE DATA

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%

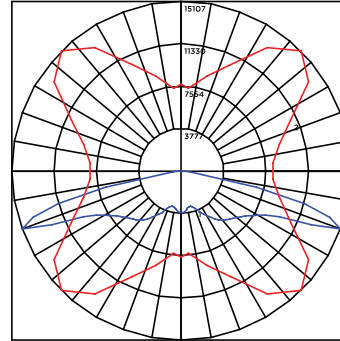
#### ISO FOOTCANDLE



25' Mounting Height/ 25' Grid Spacing

■ 5 FC  
 ■ 2 FC  
 ■ 1 FC  
 ■ 0.5 FC

#### POLAR CURVE



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

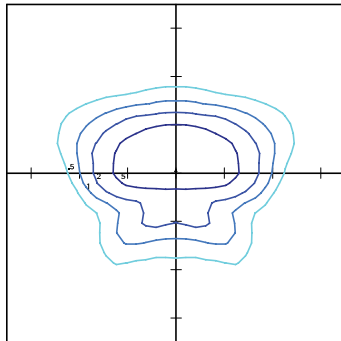
#### LUMINAIRE DATA

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%

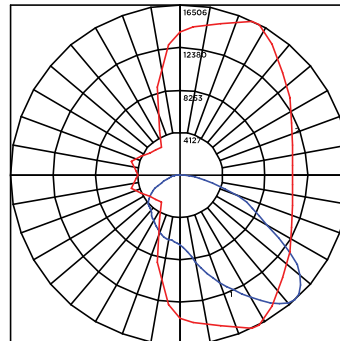
#### ISO FOOTCANDLE



25' Mounting Height/ 25' Grid Spacing

■ 5 FC  
 ■ 2 FC  
 ■ 1 FC  
 ■ 0.5 FC

#### POLAR CURVE



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

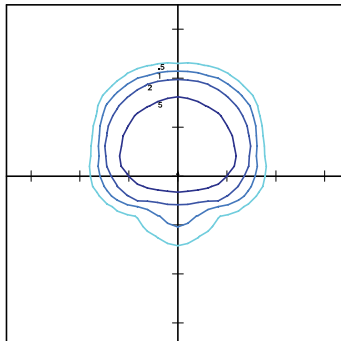
#### LUMINAIRE DATA

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	9%
Medium (30-60)°	22026	43%
High (60-80)°	4192	48%
Very High (80-90)°	379	1%
Uplight (90-180)°	0	0%
Total Flux	32960	100%

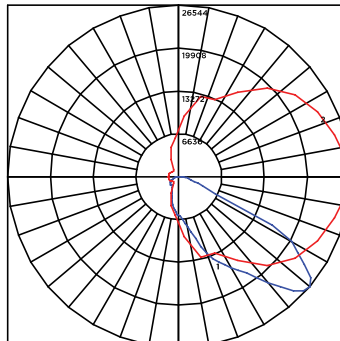
#### ISO FOOTCANDLE



25' Mounting Height/ 25' Grid Spacing

■ 5 FC  
 ■ 2 FC  
 ■ 1 FC  
 ■ 0.5 FC

#### POLAR CURVE

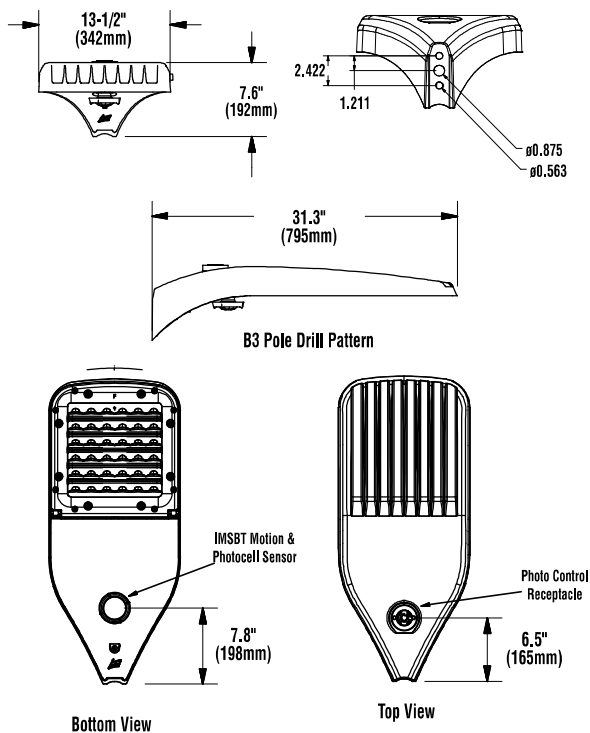




# Mirada Medium Outdoor LED Area Light

[Back to Quick Links](#)

## PRODUCT DIMENSIONS



LUMINAIRE EPA CHART - MRM									
Tilt Degree		0°	30°	45°	Tilt Degree		0°	30°	45°
Single		0.5	1.5	1.9	T90°		1.0	2.5	2.8
D180°		1.0	1.5	1.9	TN120°		1.0	3.3	3.9
D90°		0.8	1.9	2.3	Q90°		1.0	2.5	2.8

## CONTROLS

### AirLink Wireless Lighting Controller

The AirLink integrated controller is a California Title 24 compliant lighting controller that provides real-time light monitoring and control with utility-grade power monitoring. It includes a 24V sensor input and power supply to connect a sensor into the outdoor AirLink wireless lighting system. The wireless integrated controller is compatible with this fixture.

Click the link below to learn more details about AirLink.

<https://www.lsicorp.com/wp-content/uploads/documents/products/airlink-outdoor-specsheet.pdf>

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

Slim low profile sensor provides multi-level control based on motion and/or daylight. Sensor controls 0-10 VDC LED drivers and is rated for cold and wet locations (-30° C to 70° C). 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 the link below to learn more details about IMSBT.

<https://www.lsicorp.com/wp-content/uploads/documents/products/imsbt-specsheet.pdf>

### AirLink Blue

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 the link below to learn more details about AirLink Blue.

<https://www.lsicorp.com/product/airlink-blue/>





# Mirada Medium Outdoor LED Area Light

## POLES & BRACKETS

LSI offers a full line of poles and mounting accessories to complete your lighting assembly. Aluminum and steel in both square and round shafts. In addition, LSI offers round tapered, fluted and hinge based poles. Designed and engineered for durability and protected with our oven baked DuraGrip Protection System. Also available with our DuraGrip+ Protection system for unmatched corrosion resistance and an extended warranty. American made in our Ohio facility with industry leading lead times.

Click the link below to learn more details about poles & brackets.

<https://www.lsicorp.com/products/poles-brackets/>



### BKA UMB CLR

The 3G rated UMB allows for seamless integration of LSI luminaires onto existing/ retrofit or new construction poles. The UMB was designed for square or round (tapered or straight) poles with two mounting hole spacings between 3.5" – 5".



### BKS PQM15 CLR

The Pole Quick Mount Bracket allows for preset 15° up tilt of LSI luminaires for greater throw of light and increased vertical illumination as well as fast installation onto poles with LSI's 3" or 5" bolt pattern.



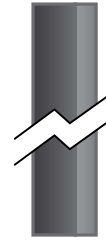
### BKA ASF CLR

The adjustable Slip Fitter is a 3G rated rugged die cast aluminum adapter to mount LSI luminaires onto a 2" iron pipe, 2 3/8 OD tenon. The Adjustable Slip Fitter can be rotated 180° allowing for tilting LSI luminaires up to 45° and 90° when using a vertical tenon.



### BKS PQMH CLR

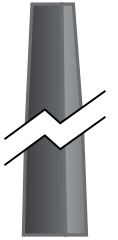
The Pole Quick Mount Bracket allows for lightning fast installation of LSI luminaires onto existing and new construction poles with LSI's B3 or B5 standard pole bolt patterns.



Square Pole  
14'-39'



Round Pole  
10'-30'



Tapered Pole  
20'-39'





# Mirada Medium (MRM)

## Outdoor LED Area Light



### OVERVIEW

Lumen Package	7,000 - 48,000
Wattage Range	48 - 401
Efficacy Range (LPW)	117 - 160
Weight lbs(kg)	30 (13.6)

### 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<sup>®</sup> 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, 5W, FT, FTA and AM.
- Silicone optical material does not yellow or crack with age and provides a typical light transmittance of 93%.
- 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 house-side shield (IH) options available for improved backlight control without sacrificing street side performance. See page 3 for more details.

### 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 on Page 5)
- 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.
- 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<sup>™</sup> motion and photocell sensor (see page 9 for more details). Fixtures operate independently and can be commissioned via iOS or Android configuration app
- LSI's AirLink<sup>™</sup> wireless control system options reduce energy and maintenance costs while optimizing light quality 24/7. (see page 9 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. (See drawing on page 9)

### 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.
- Suitable for wet Locations.
- IP66 rated Luminaire per IEC 60598.
- 3G rated for ANSI C136.31 high vibration applications are qualified.
- DesignLights Consortium<sup>®</sup> (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

*Specifications and dimensions subject to change without notice.*





# Mirada Medium Outdoor LED Area Light

## ORDERING GUIDE

[Back to Quick Links](#)TYPICAL ORDER EXAMPLE: **MRM LED 36L SIL FTA UNV DIM 50 70CRI ALSCS04 BRZ IL**

Luminaire Prefix	Light Source	Lumen Package	Light Output	Distribution	Orientation <sup>2</sup>	Voltage	Driver
<b>MRM - Mirada</b>	<b>LED</b>	7L - 7,000 lms 9L - 9,000 lms 12L - 12,000 lms 18L - 18,000 lms <b>24L - 24,000 lms</b> 30L - 30,000 lms 36L - 36,000 lms 42L - 42,000 lms 48L - 48,000 lms Custom Lumen Packages <sup>1</sup>	<b>SIL - Silicone</b>	2 - Type 2 3 - Type 3 5W - Type 5 Wide <b>FT - Forward Throw</b> FTA - Forward Throw Automotive AM - Automotive Merchandise	(blank) - standard L - Optics rotated left 90° R - Optics rotated right 90°	<b>UNV - Universal Voltage (120-277V)</b> HV - High Voltage (347-480V)	<b>DIM - 0-10V Dimming (0-10%)</b>
Color Temp		Color Rendering		Finish		Options	
50 - 5,000 CCT 40 - 4,000 CCT 30 - 3,000 CCT AMB - Phosphor Converted Amber <sup>12</sup>		<b>70CRI - 70 CRI</b>		BLK - Black BRZ - Dark Bronze GMG - Gun Metal Gray GPT - Graphite MSV - Metallic Silver PLP - Platinum Plus SVG - Satin Verde Green WHT - White		(Blank) - None <b>IH - Integral Houseside Shield<sup>2</sup></b> <b>IL - Integral Louver (Sharp Spill Light Cutoff)<sup>2</sup></b>	

### Controls (Choose One)

(Blank) - None	<b>Stand-Alone Controls</b> 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>	<b>Lutron Limelight Controls</b> LLC - LimeLight Integral Wireless Radio Control by Lutron <sup>4</sup> LLCS1 - Limelight Integral Wireless Radio Control and PIR Motion/Daylight Sensor by Lutron 8-15' mt height <sup>4</sup> LLCS2 - Limelight Integral Wireless Radio Control and PIR Motion/Daylight Sensor by Lutron 16-30' mt height <sup>4</sup> LLCS3 - Limelight Integral Wireless Radio Control and PIR Motion/Daylight Sensor by Lutron 31-40' mt height <sup>4</sup>
<b>Wireless Controls System</b> ALSC - AirLink Synapse Control System ALSCH - AirLink Synapse Control System Host / Satellite <sup>3</sup> ALSCHS02 - AirLink Synapse Control System with 12-20' Motion Sensor ALSCHS02 - AirLink Synapse Control System Host / Satellite with 12-20' Motion Sensor <sup>3</sup> ALSCHS04 - AirLink Synapse Control System with 20-40' Motion Sensor ALSCHS04 - AirLink Synapse Control System Host / Satellite with 20-40' Motion Sensor <sup>3</sup> ALBCS1 - AirLink Blue Wireless Motion & Photo Sensor Controller (8-24' mounting height) ALBCS2 - AirLink Blue Wireless Motion & Photo Sensor Controller (25-40' mounting height)	<b>Button Type Photocells</b> PCI120 - 120V PCI208-277 - 208 - 277V PCI347 - 347V	

## Accessory Ordering Information<sup>7</sup>

Controls Accessories		Order Number <sup>10</sup>
Description		
PC120 Photocell for use with CR7P option (120V) <sup>8</sup>		122514
PC208-277 Photocell for use with CR7P option (208V, 240V, 277V) <sup>8</sup>		122515
Twist Lock Photocell (347V) for use with CR7P <sup>8</sup>		122516
Twist Lock Photocell (480V) for use with CR7P <sup>8</sup>		1225180
AirLink 5 Pin Twist Lock Controller <sup>8</sup>		661409
AirLink 7 Pin Twist Lock Controller <sup>8</sup>		661410
PMOS24-24V Pole-Mounted Occupancy Sensor (24V)		663284CLR
Shorting Cap for use with CR7P		149328

Mounting Accessories <sup>9</sup>		Order Number <sup>10</sup>
Description		
Universal Mounting Bracket		684616CLR
Adjustable Slip Fitter (2" - 2 3/8" Tenon)		688138CLR
Horizontal Slip Fitter (2" - 2 3/8" Tenon)		652761CLR
Quick Mount Pole Bracket (Square Pole)		687073CLR
Quick Mount Pole Bracket (4-5" Round Pole)		689903CLR
15 Tilt Quick Mount Pole Bracket (Square Pole)		688003CLR
15 Tilt Quick Mount Pole Bracket (4-5" Round Pole)		689905CLR
Wall Mount Bracket		382132CLR
Wood Pole Bracket (6" Minimum Pole Diameter)		751219CLR

Fusing Options <sup>11</sup>		Shielding Options	
Description	Order Number	Mirada Small	See Shielding Guide
Single Fusing (120V)	See Fusing Accessory Guide	Mirada Medium	
Single Fusing (277V)		Mirada Large	
Double Fusing (208V, 240V)		Zone Medium	
Double Fusing (480V)		Zone Large	
Double Fusing (347V)		Slice Medium	

Miscellaneous Accessories		Order Number
Description		
Integral Louver/Shield		690981
Integral House Side Shield		743415
10' Linear Bird Spike Kit (3' Recommended per Luminaire)		751632

### FOOTNOTES:

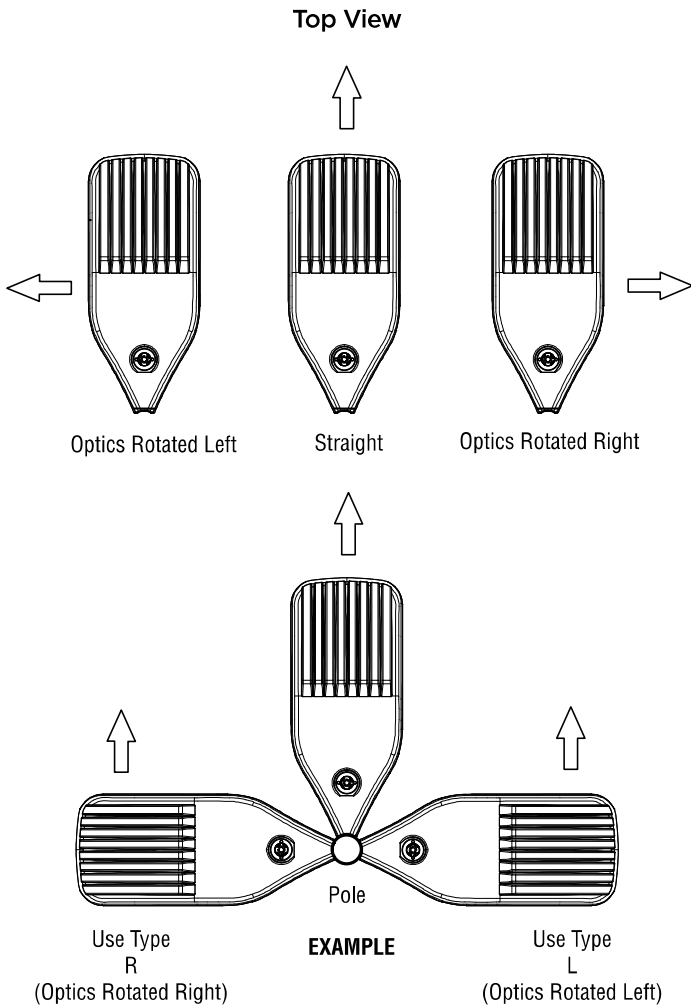
- Custom lumen and wattage packages available, consult factory. Values are within industry standard tolerances but not DLC listed.
- Not available with 5W distribution
- Consult Factory for availability.
- Not available in HV.
- IMSBT is field configurable via the LSI app that can be downloaded from your smartphone's native app store.
- 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 and 12L Lumen Packages. Consult factory for lead time and availability.





# Mirada Medium Outdoor LED Area Light

## OPTICS ROTATION



## ACCESSORIES/OPTIONS

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

Accessory louver and shield available for improved backlight control without sacrificing street side performance. LSI's Integral Louver (L) 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 with the optical distribution.

### Luminaire Shown with IMSBT & IL/IH Options



### 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 PCR 7P





# Mirada Medium Outdoor LED Area Light

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## PERFORMANCE

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	
7L	2	70	7560	157	B2-U0-G2	7560	157	B2-U0-G2	7560	157	B2-U0-G2	48
	3		7616	159	B1-U0-G2	7616	159	B1-U0-G2	7616	159	B1-U0-G2	
	5W		7292	152	B3-U0-G1	7292	152	B3-U0-G1	7292	152	B3-U0-G1	
	FT		7562	158	B2-U0-G2	7562	158	B2-U0-G2	7562	158	B2-U0-G2	
	FTA		7595	158	B2-U0-G2	7595	158	B2-U0-G2	7595	158	B2-U0-G2	
	AM		7687	160	B1-U0-G1	7687	160	B1-U0-G1	7687	160	B1-U0-G1	
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	
	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	
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	
	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	
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	
	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	
24L	2	70	25957	147	B4-U0-G3	25957	147	B4-U0-G3	25957	147	B4-U0-G3	176
	3		26149	149	B3-U0-G4	26149	149	B3-U0-G4	26149	149	B3-U0-G4	
	5W		25037	142	B5-U0-G3	25037	142	B5-U0-G3	25037	142	B5-U0-G3	
	FT		25964	148	B3-U0-G4	25964	148	B3-U0-G4	25964	148	B3-U0-G4	
	FTA		26077	148	B3-U0-G3	26077	148	B3-U0-G3	26077	148	B3-U0-G3	
	AM		26393	150	B3-U0-G2	26393	150	B3-U0-G2	26393	150	B3-U0-G2	
30L	2	70	32417	140	B4-U0-G3	32417	140	B4-U0-G3	32417	140	B4-U0-G3	232
	3		32656	141	B3-U0-G4	32656	141	B3-U0-G4	32656	141	B3-U0-G4	
	5W		31267	135	B5-U0-G3	31267	135	B5-U0-G3	31267	135	B5-U0-G3	
	FT		32424	140	B3-U0-G4	32424	140	B3-U0-G4	32424	140	B3-U0-G4	
	FTA		32566	140	B4-U0-G3	32566	140	B4-U0-G3	32566	140	B4-U0-G3	
	AM		32960	142	B3-U0-G3	32960	142	B3-U0-G3	32960	142	B3-U0-G3	
36L	2	70	38275	133	B4-U0-G4	38275	133	B4-U0-G4	38275	133	B4-U0-G4	288
	3		38557	134	B4-U0-G5	38557	134	B4-U0-G5	38557	134	B4-U0-G5	
	5W		36917	128	B5-U0-G4	36917	128	B5-U0-G4	36917	128	B5-U0-G4	
	FT		38283	133	B4-U0-G5	38283	133	B4-U0-G5	38283	133	B4-U0-G5	
	FTA		38450	134	B4-U0-G4	38450	134	B4-U0-G4	38450	134	B4-U0-G4	
	AM		38916	135	B3-U0-G3	38916	135	B3-U0-G3	38916	135	B3-U0-G3	





# Mirada Medium Outdoor LED Area Light

## 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	
42L	2	70	44118	125	B5-U0-G4	44118	125	B5-U0-G4	44118	125	B5-U0-G4	354
	3		44444	126	B4-U0-G5	44444	126	B4-U0-G5	44444	126	B4-U0-G5	
	5W		42555	120	B5-U0-G4	42555	120	B5-U0-G4	42555	120	B5-U0-G4	
	FT		44130	125	B4-U0-G5	44130	125	B4-U0-G5	44130	125	B4-U0-G5	
	FTA		44322	125	B4-U0-G4	44322	125	B4-U0-G4	44322	125	B4-U0-G4	
	AM		44859	127	B4-U0-G3	44859	127	B4-U0-G3	44859	127	B4-U0-G3	
48L	2	70	48795	122	B5-U0-G4	48795	122	B5-U0-G4	48795	122	B5-U0-G4	401
	3		49156	123	B4-U0-G5	49156	123	B4-U0-G5	49156	123	B4-U0-G5	
	5W		47066	117	B5-U0-G4	47066	117	B5-U0-G4	47066	117	B5-U0-G4	
	FT		48809	122	B4-U0-G5	48809	122	B4-U0-G5	48809	122	B4-U0-G5	
	FTA		49021	122	B5-U0-G4	49021	122	B5-U0-G4	49021	122	B5-U0-G4	
	AM		49615	124	B4-U0-G3	49615	124	B4-U0-G3	49615	124	B4-U0-G3	

ELECTRICAL DATA (AMPS)*						
Lumens	120V	208V	240V	277V	347V	480V
7L	0.40	0.23	0.20	0.17	0.14	0.10
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	1.47	0.85	0.73	0.64	0.51	0.37
30L	1.93	1.12	0.97	0.84	0.67	0.48
36L	2.40	1.38	1.20	1.04	0.83	0.60
42L	2.95	1.70	1.48	1.28	1.02	0.74
48L	3.4A	1.9A	1.7A	1.5A	1.2A	0.8A

ELECTRICAL DATA - PHOSPHOR CONVERTED AMBER (AMPS)*							
Lumens	Watts	120V	208V	240V	277V	347V	480V
9L	74.3	0.6A	0.4A	0.3A	0.3A	0.2A	0.2A
12L	102.9	0.9A	0.5A	0.4A	0.4A	0.3A	0.2A

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

RECOMMENDED LUMEN MAINTENANCE <sup>1</sup> (7-18L)					
Ambient	Initial <sup>2</sup>	25h <sup>2</sup>	50hr <sup>2</sup>	75hr <sup>2</sup>	100hr <sup>2</sup>
0-50 C	100%	96%	92%	88%	84%

RECOMMENDED LUMEN MAINTENANCE <sup>1</sup> (24-48L)					
Ambient	Initial <sup>2</sup>	25h <sup>2</sup>	50hr <sup>2</sup>	75hr <sup>2</sup>	100hr <sup>2</sup>
0-40 C	100%	100%	97%	94%	92%

- Lumen maintenance values at 25C are calculated per TM-21 based on LM-80 data and in-situ testing.
- 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.
- 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 610nm)			Wattage
		Delivered Lumens	Efficacy	BUG Rating	
9L	2	5848	80	B2-U0-G2	74
	2 - IL	3644	50	B0-U0-G1	
	3	6018	82	B1-U0-G2	
	3 - IL	4468	61	B0-U0-G2	
	5W	5471	74	B3-U0-G1	
	FT	5801	79	B1-U0-G2	
	FT - IL	3649	50	B0-U0-G1	
	FTA	5924	81	B1-U0-G1	
	FTA - IL	4243	58	B1-U0-G1	
12L	2	7530	74	B2-U0-G2	102
	2 - IL	4692	46	B0-U0-G1	
	3	7749	76	B1-U0-G2	
	3 - IL	5753	57	B0-U0-G2	
	5W	7045	69	B3-U0-G2	
	FT	7470	73	B2-U0-G2	
	FT - IL	4699	46	B0-U0-G2	
	FTA	7628	75	B2-U0-G2	
	FTA-IL	5464	54	B1-U0-G1	

\*LEDs are frequently updated therefore values are nominal.





# Mirada Medium Outdoor LED Area Light

## 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 <https://www.lsicorp.com/product/mirada-medium/> for detailed photometric data.

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

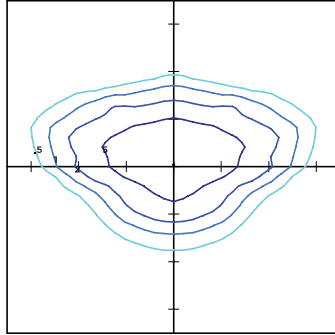
#### LUMINAIRE DATA

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

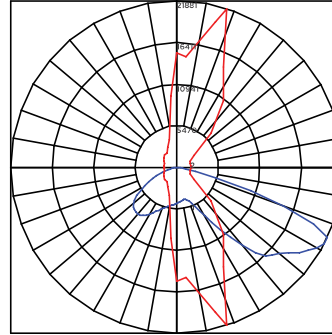
#### Zonal Lumen Summary

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%

#### ISO FOOTCANDLE



#### POLAR CURVE



25' Mounting Height/ 25' Grid Spacing  
■ 5 FC ■ 2 FC ■ 1 FC ■ 0.5 FC

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

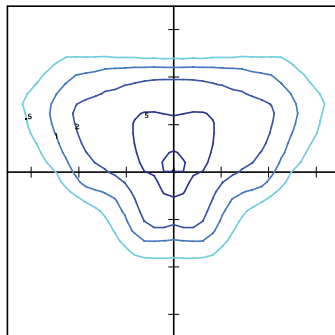
#### LUMINAIRE DATA

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

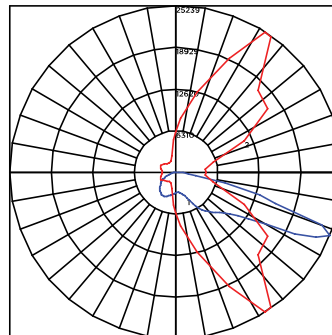
#### Zonal Lumen Summary

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%

#### ISO FOOTCANDLE



#### POLAR CURVE



25' Mounting Height/ 25' Grid Spacing  
■ 5 FC ■ 2 FC ■ 1 FC ■ 0.5 FC

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

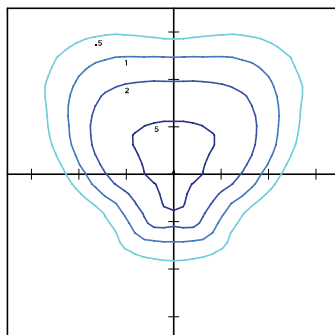
#### LUMINAIRE DATA

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

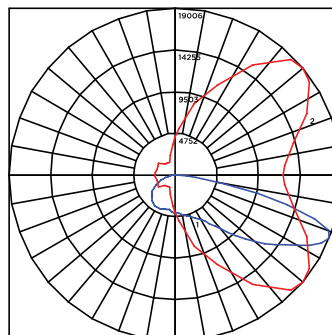
#### Zonal Lumen Summary

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%

#### ISO FOOTCANDLE



#### POLAR CURVE



20' Mounting Height/ 15' Grid Spacing  
■ 20 FC ■ 10 FC ■ 5 FC ■ 2 FC





# Mirada Medium Outdoor LED Area Light

## PHOTOMETRICS (CONT)

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

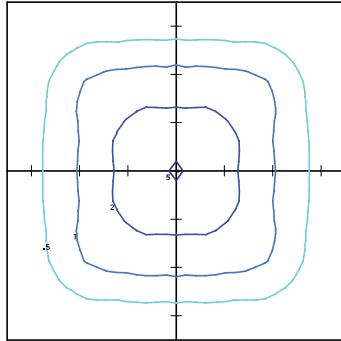
#### LUMINAIRE DATA

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%

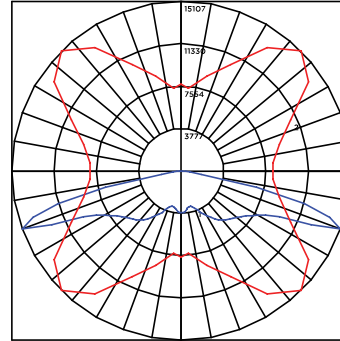
#### ISO FOOTCANDLE



25' Mounting Height/ 25' Grid Spacing

■ 5 FC  
 ■ 2 FC  
 ■ 1 FC  
 ■ 0.5 FC

#### POLAR CURVE



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

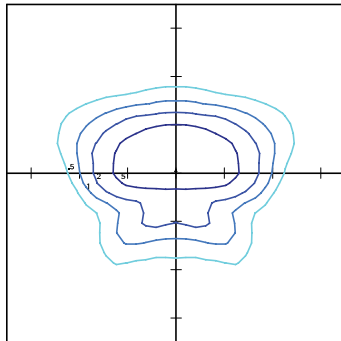
#### LUMINAIRE DATA

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%

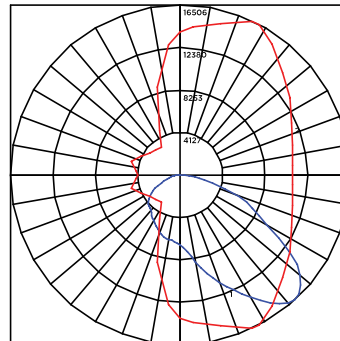
#### ISO FOOTCANDLE



25' Mounting Height/ 25' Grid Spacing

■ 5 FC  
 ■ 2 FC  
 ■ 1 FC  
 ■ 0.5 FC

#### POLAR CURVE



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

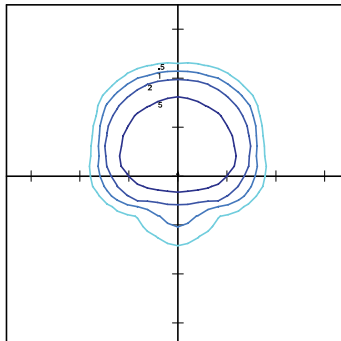
#### LUMINAIRE DATA

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	9%
Medium (30-60)°	22026	43%
High (60-80)°	4192	48%
Very High (80-90)°	379	1%
Uplight (90-180)°	0	0%
Total Flux	32960	100%

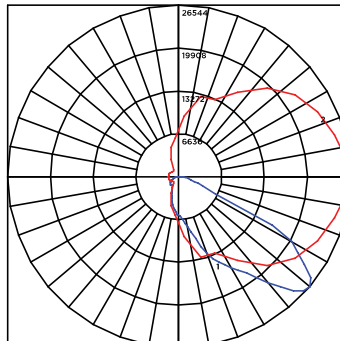
#### ISO FOOTCANDLE



25' Mounting Height/ 25' Grid Spacing

■ 5 FC  
 ■ 2 FC  
 ■ 1 FC  
 ■ 0.5 FC

#### POLAR CURVE

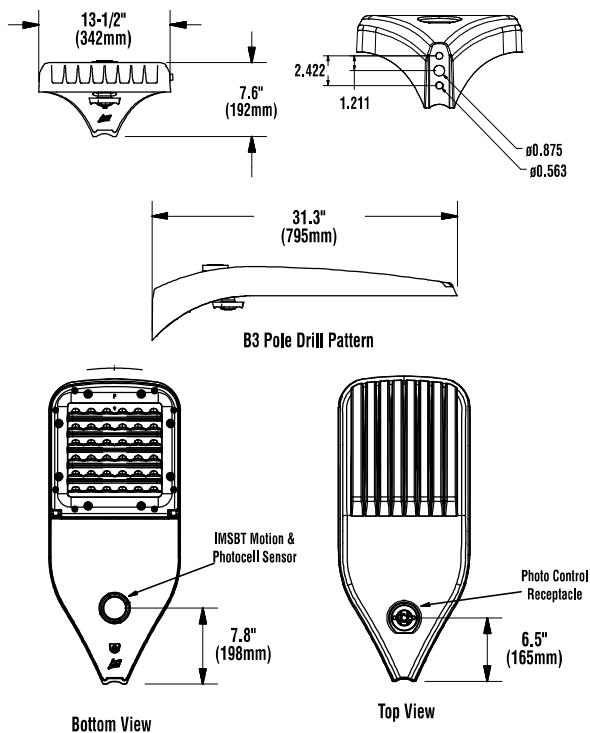




# Mirada Medium Outdoor LED Area Light

[Back to Quick Links](#)

## PRODUCT DIMENSIONS



LUMINAIRE EPA CHART - MRM									
Tilt Degree		0°	30°	45°	Tilt Degree		0°	30°	45°
Single		0.5	1.5	1.9	T90°		1.0	2.5	2.8
D180°		1.0	1.5	1.9	TN120°		1.0	3.3	3.9
D90°		0.8	1.9	2.3	Q90°		1.0	2.5	2.8

## CONTROLS

### AirLink Wireless Lighting Controller

The AirLink integrated controller is a California Title 24 compliant lighting controller that provides real-time light monitoring and control with utility-grade power monitoring. It includes a 24V sensor input and power supply to connect a sensor into the outdoor AirLink wireless lighting system. The wireless integrated controller is compatible with this fixture.

Click the link below to learn more details about AirLink.

<https://www.lsicorp.com/wp-content/uploads/documents/products/airlink-outdoor-specsheet.pdf>

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

Slim low profile sensor provides multi-level control based on motion and/or daylight. Sensor controls 0-10 VDC LED drivers and is rated for cold and wet locations (-30° C to 70° C). 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 the link below to learn more details about IMSBT.

<https://www.lsicorp.com/wp-content/uploads/documents/products/imsbt-specsheet.pdf>

### AirLink Blue

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 the link below to learn more details about AirLink Blue.

<https://www.lsicorp.com/product/airlink-blue/>







# Mirada Medium Outdoor LED Area Light

## POLES & BRACKETS

LSI offers a full line of poles and mounting accessories to complete your lighting assembly. Aluminum and steel in both square and round shafts. In addition, LSI offers round tapered, fluted and hinge based poles. Designed and engineered for durability and protected with our oven baked DuraGrip Protection System. Also available with our DuraGrip+ Protection system for unmatched corrosion resistance and an extended warranty. American made in our Ohio facility with industry leading lead times.

Click the link below to learn more details about poles & brackets.

<https://www.lsicorp.com/products/poles-brackets/>



### BKA UMB CLR

The 3G rated UMB allows for seamless integration of LSI luminaires onto existing/ retrofit or new construction poles. The UMB was designed for square or round (tapered or straight) poles with two mounting hole spacings between 3.5" – 5".



### BKS PQM15 CLR

The Pole Quick Mount Bracket allows for preset 15° up tilt of LSI luminaires for greater throw of light and increased vertical illumination as well as fast installation onto poles with LSI's 3" or 5" bolt pattern.



### BKA ASF CLR

The adjustable Slip Fitter is a 3G rated rugged die cast aluminum adapter to mount LSI luminaires onto a 2" iron pipe, 2 3/8 OD tenon. The Adjustable Slip Fitter can be rotated 180° allowing for tilting LSI luminaires up to 45° and 90° when using a vertical tenon.



### BKS PQMH CLR

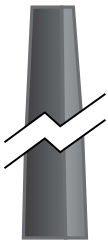
The Pole Quick Mount Bracket allows for lightning fast installation of LSI luminaires onto existing and new construction poles with LSI's B3 or B5 standard pole bolt patterns.



Square Pole  
14'-39'



Round Pole  
10'-30'



Tapered Pole  
20'-39'





# Mirada Medium (MRM)

## Outdoor LED Area Light



### OVERVIEW

Lumen Package	7,000 - 48,000
Wattage Range	48 - 401
Efficacy Range (LPW)	117 - 160
Weight lbs(kg)	30 (13.6)

### 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<sup>®</sup> 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, 5W, FT, FTA and AM.
- Silicone optical material does not yellow or crack with age and provides a typical light transmittance of 93%.
- 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 house-side shield (IH) options available for improved backlight control without sacrificing street side performance. See page 3 for more details.

### 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 on Page 5)
- 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.
- 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<sup>™</sup> motion and photocell sensor (see page 9 for more details). Fixtures operate independently and can be commissioned via iOS or Android configuration app
- LSI's AirLink<sup>™</sup> wireless control system options reduce energy and maintenance costs while optimizing light quality 24/7. (see page 9 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. (See drawing on page 9)

### 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.
- Suitable for wet Locations.
- IP66 rated Luminaire per IEC 60598.
- 3G rated for ANSI C136.31 high vibration applications are qualified.
- DesignLights Consortium<sup>®</sup> (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

*Specifications and dimensions subject to change without notice.*





# Mirada Medium Outdoor LED Area Light

## ORDERING GUIDE

[Back to Quick Links](#)TYPICAL ORDER EXAMPLE: **MRM LED 36L SIL FTA UNV DIM 50 70CRI ALSCS04 BRZ IL**

Luminaire Prefix	Light Source	Lumen Package	Light Output	Distribution	Orientation <sup>2</sup>	Voltage	Driver
<b>MRM - Mirada</b>	<b>LED</b>	7L - 7,000 lms 9L - 9,000 lms 12L - 12,000 lms 18L - 18,000 lms 24L - 24,000 lms 30L - 30,000 lms <b>36L - 36,000 lms</b> 42L - 42,000 lms 48L - 48,000 lms Custom Lumen Packages <sup>1</sup>	<b>SIL - Silicone</b>	2 - Type 2 3 - Type 3 5W - Type 5 Wide <b>FT - Forward Throw</b> FTA - Forward Throw Automotive AM - Automotive Merchandise	(blank) - standard L - Optics rotated left 90° R - Optics rotated right 90°	<b>UNV - Universal Voltage (120-277V)</b> HV - High Voltage (347-480V)	<b>DIM - 0-10V Dimming (0-10%)</b>
Color Temp		Color Rendering		Finish		Options	
50 - 5,000 CCT 40 - 4,000 CCT 30 - 3,000 CCT AMB - Phosphor Converted Amber <sup>12</sup>		70CRI - 70 CRI		BLK - Black BRZ - Dark Bronze GMG - Gun Metal Gray GPT - Graphite MSV - Metallic Silver PLP - Platinum Plus SVG - Satin Verde Green WHT - White		(Blank) - None IH - Integral Houseside Shield <sup>2</sup> IL - Integral Louver (Sharp Spill Light Cutoff) <sup>2</sup>	

### Controls (Choose One)

(Blank) - None	<b>Stand-Alone Controls</b> 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>	<b>Lutron Limelight Controls</b> LLC - LimeLight Integral Wireless Radio Control by Lutron <sup>4</sup> LLCS1 - Limelight Integral Wireless Radio Control and PIR Motion/Daylight Sensor by Lutron 8-15' mt height <sup>4</sup> LLCS2 - Limelight Integral Wireless Radio Control and PIR Motion/Daylight Sensor by Lutron 16-30' mt height <sup>4</sup> LLCS3 - Limelight Integral Wireless Radio Control and PIR Motion/Daylight Sensor by Lutron 31-40' mt height <sup>4</sup>
<b>Wireless Controls System</b> ALSC - AirLink Synapse Control System ALSCH - AirLink Synapse Control System Host / Satellite <sup>3</sup> ALSCS02 - AirLink Synapse Control System with 12-20' Motion Sensor ALSCS02 - AirLink Synapse Control System Host / Satellite with 12-20' Motion Sensor <sup>3</sup> ALSCS04 - AirLink Synapse Control System with 20-40' Motion Sensor ALSCS04 - AirLink Synapse Control System Host / Satellite with 20-40' Motion Sensor <sup>3</sup> ALBCS1 - AirLink Blue Wireless Motion & Photo Sensor Controller (8-24' mounting height) ALBCS2 - AirLink Blue Wireless Motion & Photo Sensor Controller (25-40' mounting height)	<b>Button Type Photocells</b> PCI120 - 120V PCI208-277 - 208 - 277V PCI347 - 347V	

## Accessory Ordering Information<sup>7</sup>

Controls Accessories	
Description	Order Number <sup>10</sup>
PC120 Photocell for use with CR7P option (120V) <sup>8</sup>	122514
PC208-277 Photocell for use with CR7P option (208V, 240V, 277V) <sup>8</sup>	122515
Twist Lock Photocell (347V) for use with CR7P <sup>8</sup>	122516
Twist Lock Photocell (480V) for use with CR7P <sup>8</sup>	122518
AirLink 5 Pin Twist Lock Controller <sup>8</sup>	661409
AirLink 7 Pin Twist Lock Controller <sup>8</sup>	661410
PMOS24-24V Pole-Mounted Occupancy Sensor (24V)	663284CLR
Shorting Cap for use with CR7P	149328

Mounting Accessories <sup>9</sup>	
Description	Order Number <sup>10</sup>
Universal Mounting Bracket	684616CLR
Adjustable Slip Fitter (2" - 2 3/8" Tenon)	688138CLR
Horizontal Slip Fitter (2" - 2 3/8" Tenon)	652761CLR
Quick Mount Pole Bracket (Square Pole)	687073CLR
Quick Mount Pole Bracket (4-5" Round Pole)	689903CLR
15 Tilt Quick Mount Pole Bracket (Square Pole)	688003CLR
15 Tilt Quick Mount Pole Bracket (4-5" Round Pole)	689905CLR
Wall Mount Bracket	382132CLR
Wood Pole Bracket (6" Minimum Pole Diameter)	751219CLR

Fusing Options <sup>11</sup>		Shielding Options	
Description	Order Number		
Single Fusing (120V)	See Fusing Accessory Guide	Mirada Small	See Shielding Guide
Single Fusing (277V)		Mirada Medium	
Double Fusing (208V, 240V)		Mirada Large	
Double Fusing (480V)		Zone Medium	
Double Fusing (347V)		Zone Large	
		Slice Medium	

Miscellaneous Accessories	
Description	Order Number
Integral Louver/Shield	690981
Integral House Side Shield	743415
10' Linear Bird Spike Kit (3' Recommended per Luminaire)	751632

### FOOTNOTES:

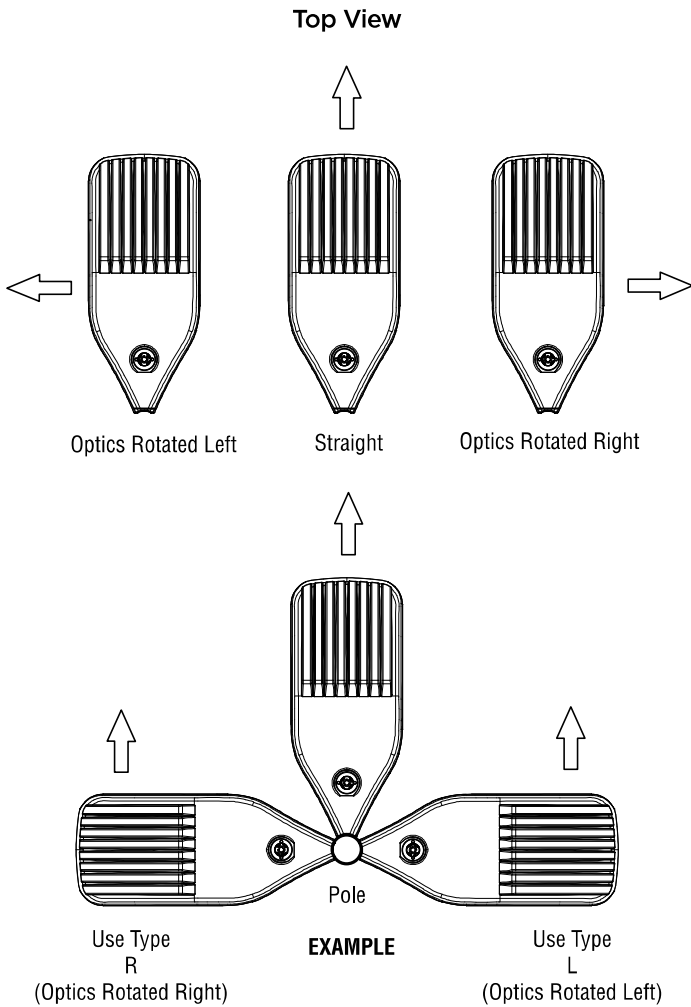
- Custom lumen and wattage packages available, consult factory. Values are within industry standard tolerances but not DLC listed.
- Not available with 5W distribution
- Consult Factory for availability.
- Not available in HV.
- IMSBT is field configurable via the LSI app that can be downloaded from your smartphone's native app store.
- 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 and 12L Lumen Packages. Consult factory for lead time and availability.





# Mirada Medium Outdoor LED Area Light

## OPTICS ROTATION



## ACCESSORIES/OPTIONS

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

Accessory louver and shield available for improved backlight control without sacrificing street side performance. LSI's Integral Louver (L) 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 with the optical distribution.

Luminaire Shown with IMSBT & IL/IH Options



### 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 PCR 7P





# Mirada Medium Outdoor LED Area Light

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## PERFORMANCE

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	
7L	2	70	7560	157	B2-U0-G2	7560	157	B2-U0-G2	7560	157	B2-U0-G2	48
	3		7616	159	B1-U0-G2	7616	159	B1-U0-G2	7616	159	B1-U0-G2	
	5W		7292	152	B3-U0-G1	7292	152	B3-U0-G1	7292	152	B3-U0-G1	
	FT		7562	158	B2-U0-G2	7562	158	B2-U0-G2	7562	158	B2-U0-G2	
	FTA		7595	158	B2-U0-G2	7595	158	B2-U0-G2	7595	158	B2-U0-G2	
	AM		7687	160	B1-U0-G1	7687	160	B1-U0-G1	7687	160	B1-U0-G1	
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	
	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	
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	
	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	
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	
	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	
24L	2	70	25957	147	B4-U0-G3	25957	147	B4-U0-G3	25957	147	B4-U0-G3	176
	3		26149	149	B3-U0-G4	26149	149	B3-U0-G4	26149	149	B3-U0-G4	
	5W		25037	142	B5-U0-G3	25037	142	B5-U0-G3	25037	142	B5-U0-G3	
	FT		25964	148	B3-U0-G4	25964	148	B3-U0-G4	25964	148	B3-U0-G4	
	FTA		26077	148	B3-U0-G3	26077	148	B3-U0-G3	26077	148	B3-U0-G3	
	AM		26393	150	B3-U0-G2	26393	150	B3-U0-G2	26393	150	B3-U0-G2	
30L	2	70	32417	140	B4-U0-G3	32417	140	B4-U0-G3	32417	140	B4-U0-G3	232
	3		32656	141	B3-U0-G4	32656	141	B3-U0-G4	32656	141	B3-U0-G4	
	5W		31267	135	B5-U0-G3	31267	135	B5-U0-G3	31267	135	B5-U0-G3	
	FT		32424	140	B3-U0-G4	32424	140	B3-U0-G4	32424	140	B3-U0-G4	
	FTA		32566	140	B4-U0-G3	32566	140	B4-U0-G3	32566	140	B4-U0-G3	
	AM		32960	142	B3-U0-G3	32960	142	B3-U0-G3	32960	142	B3-U0-G3	
36L	2	70	38275	133	B4-U0-G4	38275	133	B4-U0-G4	38275	133	B4-U0-G4	288
	3		38557	134	B4-U0-G5	38557	134	B4-U0-G5	38557	134	B4-U0-G5	
	5W		36917	128	B5-U0-G4	36917	128	B5-U0-G4	36917	128	B5-U0-G4	
	FT		38283	133	B4-U0-G5	38283	133	B4-U0-G5	38283	133	B4-U0-G5	
	FTA		38450	134	B4-U0-G4	38450	134	B4-U0-G4	38450	134	B4-U0-G4	
	AM		38916	135	B3-U0-G3	38916	135	B3-U0-G3	38916	135	B3-U0-G3	



# Mirada Medium Outdoor LED Area Light

## 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	
42L	2	70	44118	125	B5-U0-G4	44118	125	B5-U0-G4	44118	125	B5-U0-G4	354
	3		44444	126	B4-U0-G5	44444	126	B4-U0-G5	44444	126	B4-U0-G5	
	5W		42555	120	B5-U0-G4	42555	120	B5-U0-G4	42555	120	B5-U0-G4	
	FT		44130	125	B4-U0-G5	44130	125	B4-U0-G5	44130	125	B4-U0-G5	
	FTA		44322	125	B4-U0-G4	44322	125	B4-U0-G4	44322	125	B4-U0-G4	
	AM		44859	127	B4-U0-G3	44859	127	B4-U0-G3	44859	127	B4-U0-G3	
48L	2	70	48795	122	B5-U0-G4	48795	122	B5-U0-G4	48795	122	B5-U0-G4	401
	3		49156	123	B4-U0-G5	49156	123	B4-U0-G5	49156	123	B4-U0-G5	
	5W		47066	117	B5-U0-G4	47066	117	B5-U0-G4	47066	117	B5-U0-G4	
	FT		48809	122	B4-U0-G5	48809	122	B4-U0-G5	48809	122	B4-U0-G5	
	FTA		49021	122	B5-U0-G4	49021	122	B5-U0-G4	49021	122	B5-U0-G4	
	AM		49615	124	B4-U0-G3	49615	124	B4-U0-G3	49615	124	B4-U0-G3	

ELECTRICAL DATA (AMPS)*						
Lumens	120V	208V	240V	277V	347V	480V
7L	0.40	0.23	0.20	0.17	0.14	0.10
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	1.47	0.85	0.73	0.64	0.51	0.37
30L	1.93	1.12	0.97	0.84	0.67	0.48
36L	2.40	1.38	1.20	1.04	0.83	0.60
42L	2.95	1.70	1.48	1.28	1.02	0.74
48L	3.4A	1.9A	1.7A	1.5A	1.2A	0.8A

ELECTRICAL DATA - PHOSPHOR CONVERTED AMBER (AMPS)*							
Lumens	Watts	120V	208V	240V	277V	347V	480V
9L	74.3	0.6A	0.4A	0.3A	0.3A	0.2A	0.2A
12L	102.9	0.9A	0.5A	0.4A	0.4A	0.3A	0.2A

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

RECOMMENDED LUMEN MAINTENANCE <sup>1</sup> (7-18L)					
Ambient	Initial <sup>2</sup>	25h <sup>2</sup>	50hr <sup>2</sup>	75hr <sup>2</sup>	100hr <sup>2</sup>
0-50 C	100%	96%	92%	88%	84%

RECOMMENDED LUMEN MAINTENANCE <sup>1</sup> (24-48L)					
Ambient	Initial <sup>2</sup>	25h <sup>2</sup>	50hr <sup>2</sup>	75hr <sup>2</sup>	100hr <sup>2</sup>
0-40 C	100%	100%	97%	94%	92%

- Lumen maintenance values at 25C are calculated per TM-21 based on LM-80 data and in-situ testing.
- 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.
- 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 610nm)			Wattage
		Delivered Lumens	Efficacy	BUG Rating	
9L	2	5848	80	B2-U0-G2	74
	2 - IL	3644	50	B0-U0-G1	
	3	6018	82	B1-U0-G2	
	3 - IL	4468	61	B0-U0-G2	
	5W	5471	74	B3-U0-G1	
	FT	5801	79	B1-U0-G2	
	FT - IL	3649	50	B0-U0-G1	
	FTA	5924	81	B1-U0-G1	
12L	2	7530	74	B2-U0-G2	102
	2 - IL	4692	46	B0-U0-G1	
	3	7749	76	B1-U0-G2	
	3 - IL	5753	57	B0-U0-G2	
	5W	7045	69	B3-U0-G2	
	FT	7470	73	B2-U0-G2	
	FT - IL	4699	46	B0-U0-G2	
	FTA	7628	75	B2-U0-G2	
FTA-IL	5464	54	B1-U0-G1		

\*LEDs are frequently updated therefore values are nominal.







# Mirada Medium Outdoor LED Area Light

## 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 <https://www.lsicorp.com/product/mirada-medium/> for detailed photometric data.

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

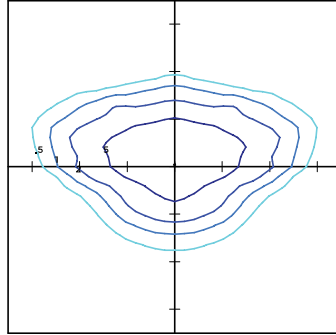
#### LUMINAIRE DATA

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

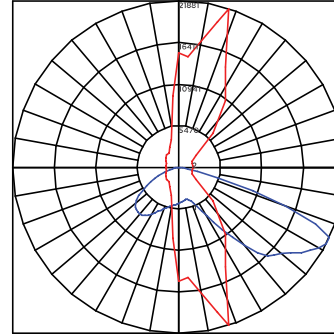
#### Zonal Lumen Summary

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%

#### ISO FOOTCANDLE



#### POLAR CURVE



25' Mounting Height/ 25' Grid Spacing

■ 5 FC ■ 2 FC ■ 1 FC ■ 0.5 FC

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

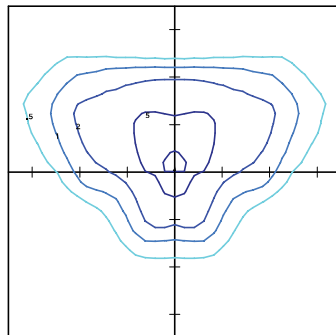
#### LUMINAIRE DATA

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

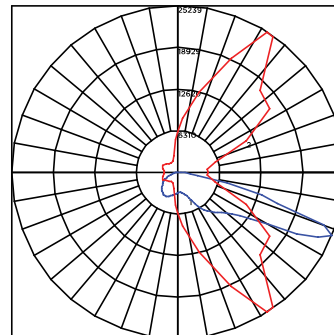
#### Zonal Lumen Summary

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%

#### ISO FOOTCANDLE



#### POLAR CURVE



25' Mounting Height/ 25' Grid Spacing

■ 5 FC ■ 2 FC ■ 1 FC ■ 0.5 FC

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

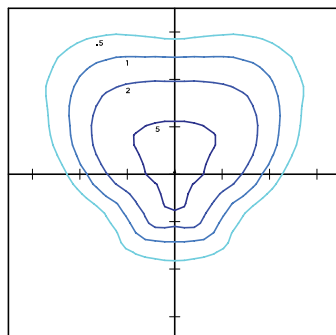
#### LUMINAIRE DATA

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

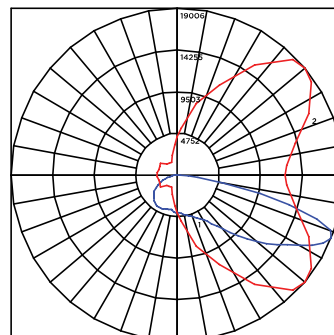
#### Zonal Lumen Summary

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%

#### ISO FOOTCANDLE



#### POLAR CURVE



20' Mounting Height/ 15' Grid Spacing

■ 20 FC ■ 10 FC ■ 5 FC ■ 2 FC





# Mirada Medium Outdoor LED Area Light

## PHOTOMETRICS (CONT)

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

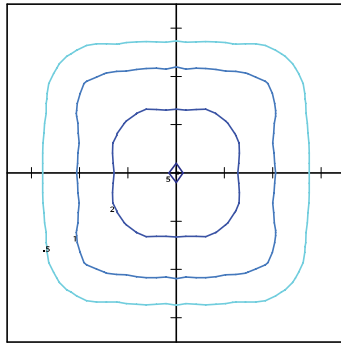
#### LUMINAIRE DATA

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%

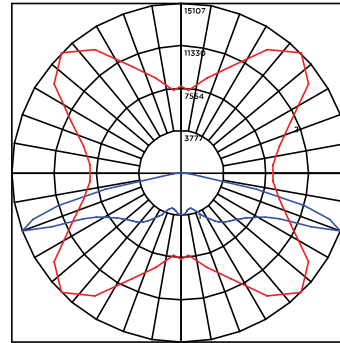
#### ISO FOOTCANDLE



25' Mounting Height/ 25' Grid Spacing

■ 5 FC  
 ■ 2 FC  
 ■ 1 FC  
 ■ 0.5 FC

#### POLAR CURVE



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

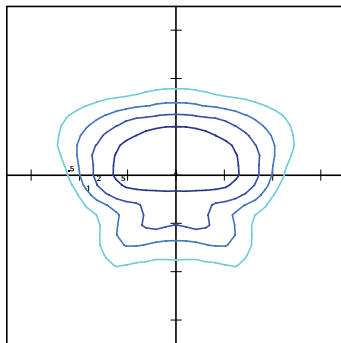
#### LUMINAIRE DATA

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%

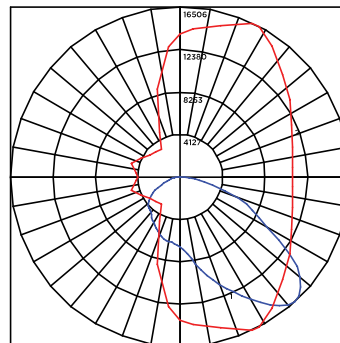
#### ISO FOOTCANDLE



25' Mounting Height/ 25' Grid Spacing

■ 5 FC  
 ■ 2 FC  
 ■ 1 FC  
 ■ 0.5 FC

#### POLAR CURVE



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

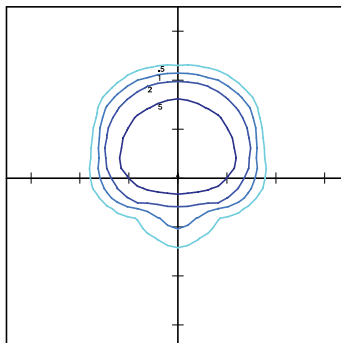
#### LUMINAIRE DATA

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	9%
Medium (30-60)°	22026	43%
High (60-80)°	4192	48%
Very High (80-90)°	379	1%
Uplight (90-180)°	0	0%
Total Flux	32960	100%

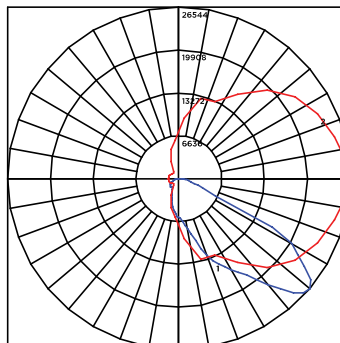
#### ISO FOOTCANDLE



25' Mounting Height/ 25' Grid Spacing

■ 5 FC  
 ■ 2 FC  
 ■ 1 FC  
 ■ 0.5 FC

#### POLAR CURVE

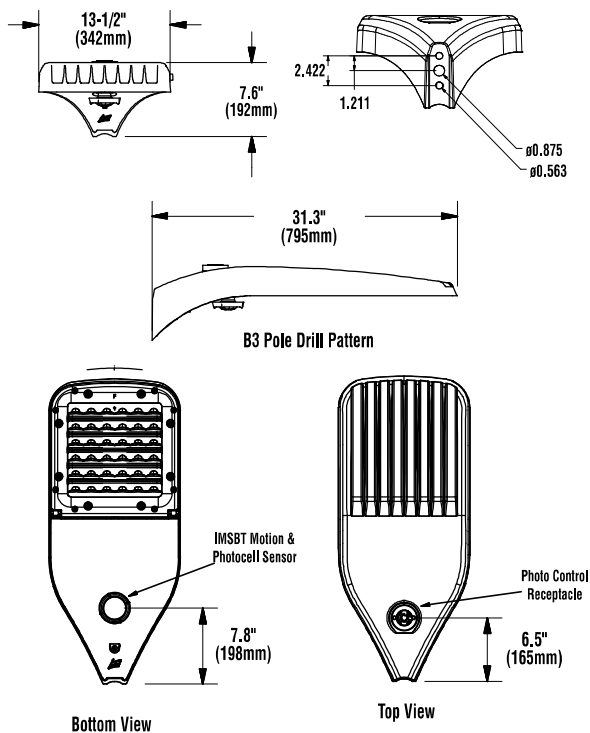




# Mirada Medium Outdoor LED Area Light

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## PRODUCT DIMENSIONS



LUMINAIRE EPA CHART - MRM									
Tilt Degree		0°	30°	45°	Tilt Degree		0°	30°	45°
Single		0.5	1.5	1.9	T90°		1.0	2.5	2.8
D180°		1.0	1.5	1.9	TN120°		1.0	3.3	3.9
D90°		0.8	1.9	2.3	Q90°		1.0	2.5	2.8

## CONTROLS

### AirLink Wireless Lighting Controller

The AirLink integrated controller is a California Title 24 compliant lighting controller that provides real-time light monitoring and control with utility-grade power monitoring. It includes a 24V sensor input and power supply to connect a sensor into the outdoor AirLink wireless lighting system. The wireless integrated controller is compatible with this fixture.

Click the link below to learn more details about AirLink.

<https://www.lsicorp.com/wp-content/uploads/documents/products/airlink-outdoor-specsheet.pdf>

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

Slim low profile sensor provides multi-level control based on motion and/or daylight. Sensor controls 0-10 VDC LED drivers and is rated for cold and wet locations (-30° C to 70° C). 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 the link below to learn more details about IMSBT.

<https://www.lsicorp.com/wp-content/uploads/documents/products/imsbt-specsheet.pdf>

### AirLink Blue

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 the link below to learn more details about AirLink Blue.

<https://www.lsicorp.com/product/airlink-blue/>





# Mirada Medium Outdoor LED Area Light

## POLES & BRACKETS

LSI offers a full line of poles and mounting accessories to complete your lighting assembly. Aluminum and steel in both square and round shafts. In addition, LSI offers round tapered, fluted and hinge based poles. Designed and engineered for durability and protected with our oven baked DuraGrip Protection System. Also available with our DuraGrip+ Protection system for unmatched corrosion resistance and an extended warranty. American made in our Ohio facility with industry leading lead times.

Click the link below to learn more details about poles & brackets.

<https://www.lsicorp.com/products/poles-brackets/>



### BKA UMB CLR

The 3G rated UMB allows for seamless integration of LSI luminaires onto existing/ retrofit or new construction poles. The UMB was designed for square or round (tapered or straight) poles with two mounting hole spacings between 3.5" – 5".



### BKS PQM15 CLR

The Pole Quick Mount Bracket allows for preset 15° up tilt of LSI luminaires for greater throw of light and increased vertical illumination as well as fast installation onto poles with LSI's 3" or 5" bolt pattern.



### BKA ASF CLR

The adjustable Slip Fitter is a 3G rated rugged die cast aluminum adapter to mount LSI luminaires onto a 2" iron pipe, 2 3/8 OD tenon. The Adjustable Slip Fitter can be rotated 180° allowing for tilting LSI luminaires up to 45° and 90° when using a vertical tenon.



### BKS PQMH CLR

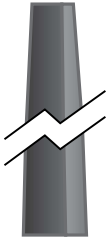
The Pole Quick Mount Bracket allows for lightning fast installation of LSI luminaires onto existing and new construction poles with LSI's B3 or B5 standard pole bolt patterns.



Square Pole  
14'-39'



Round Pole  
10'-30'



Tapered Pole  
20'-39'





# Mirada Medium (MRM)

## Outdoor LED Area Light



### OVERVIEW

Lumen Package	7,000 - 48,000
Wattage Range	48 - 401
Efficacy Range (LPW)	117 - 160
Weight lbs(kg)	30 (13.6)

### 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<sup>®</sup> 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, 5W, FT, FTA and AM.
- Silicone optical material does not yellow or crack with age and provides a typical light transmittance of 93%.
- 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 house-side shield (IH) options available for improved backlight control without sacrificing street side performance. See page 3 for more details.

### 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 on Page 5)
- 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.
- 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<sup>™</sup> motion and photocell sensor (see page 9 for more details). Fixtures operate independently and can be commissioned via iOS or Android configuration app
- LSI's AirLink<sup>™</sup> wireless control system options reduce energy and maintenance costs while optimizing light quality 24/7. (see page 9 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. (See drawing on page 9)

### 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.
- Suitable for wet Locations.
- IP66 rated Luminaire per IEC 60598.
- 3G rated for ANSI C136.31 high vibration applications are qualified.
- DesignLights Consortium<sup>®</sup> (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

*Specifications and dimensions subject to change without notice.*





# Mirada Medium Outdoor LED Area Light

## ORDERING GUIDE

[Back to Quick Links](#)TYPICAL ORDER EXAMPLE: **MRM LED 36L SIL FTA UNV DIM 50 70CRI ALSCS04 BRZ IL**

Luminaire Prefix	Light Source	Lumen Package	Light Output	Distribution	Orientation <sup>2</sup>	Voltage	Driver
<b>MRM - Mirada</b>	<b>LED</b>	7L - 7,000 lms 9L - 9,000 lms 12L - 12,000 lms 18L - 18,000 lms 24L - 24,000 lms 30L - 30,000 lms <b>36L - 36,000 lms</b> 42L - 42,000 lms 48L - 48,000 lms Custom Lumen Packages <sup>1</sup>	<b>SIL - Silicone</b>	2 - Type 2 3 - Type 3 5W - Type 5 Wide <b>FT - Forward Throw</b> FTA - Forward Throw Automotive AM - Automotive Merchandise	(blank) - standard L - Optics rotated left 90° R - Optics rotated right 90°	<b>UNV - Universal Voltage (120-277V)</b> HV - High Voltage (347-480V)	<b>DIM - 0-10V Dimming (0-10%)</b>
Color Temp		Color Rendering		Finish		Options	
50 - 5,000 CCT 40 - 4,000 CCT 30 - 3,000 CCT AMB - Phosphor Converted Amber <sup>12</sup>		<b>70CRI - 70 CRI</b>		BLK - Black BRZ - Dark Bronze GMG - Gun Metal Gray GPT - Graphite MSV - Metallic Silver PLP - Platinum Plus SVG - Satin Verde Green WHT - White		(Blank) - None IH - Integral Houseside Shield <sup>2</sup> <b>IL - Integral Louver (Sharp Spill Light Cutoff)<sup>2</sup></b>	

### Controls (Choose One)

(Blank) - None	<b>Stand-Alone Controls</b> 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>	<b>Lutron Limelight Controls</b> LLC - LimeLight Integral Wireless Radio Control by Lutron <sup>4</sup> LLCS1 - Limelight Integral Wireless Radio Control and PIR Motion/Daylight Sensor by Lutron 8-15' mt height <sup>4</sup> LLCS2 - Limelight Integral Wireless Radio Control and PIR Motion/Daylight Sensor by Lutron 16-30' mt height <sup>4</sup> LLCS3 - Limelight Integral Wireless Radio Control and PIR Motion/Daylight Sensor by Lutron 31-40' mt height <sup>4</sup>
<b>Wireless Controls System</b> ALSC - AirLink Synapse Control System ALSCH - AirLink Synapse Control System Host / Satellite <sup>3</sup> ALSCHS02 - AirLink Synapse Control System Host / Satellite with 12-20' Motion Sensor ALSCHS04 - AirLink Synapse Control System Host / Satellite with 20-40' Motion Sensor ALSCHS04 - AirLink Synapse Control System Host / Satellite with 20-40' Motion Sensor <sup>3</sup> ALBCS1 - AirLink Blue Wireless Motion & Photo Sensor Controller (8-24" mounting height) ALBCS2 - AirLink Blue Wireless Motion & Photo Sensor Controller (25-40" mounting height)	<b>Button Type Photocells</b> PCI120 - 120V PCI208-277 - 208 - 277V PCI347 - 347V	

## Accessory Ordering Information<sup>7</sup>

Controls Accessories	
Description	Order Number <sup>10</sup>
PC120 Photocell for use with CR7P option (120V) <sup>8</sup>	122514
PC208-277 Photocell for use with CR7P option (208V, 240V, 277V) <sup>8</sup>	122515
Twist Lock Photocell (347V) for use with CR7P <sup>8</sup>	122516
Twist Lock Photocell (480V) for use with CR7P <sup>8</sup>	122518
AirLink 5 Pin Twist Lock Controller <sup>8</sup>	661409
AirLink 7 Pin Twist Lock Controller <sup>8</sup>	661410
PMOS24-24V Pole-Mounted Occupancy Sensor (24V)	663284CLR
Shorting Cap for use with CR7P	149328

Mounting Accessories <sup>9</sup>	
Description	Order Number <sup>10</sup>
Universal Mounting Bracket	684616CLR
Adjustable Slip Fitter (2" - 2 3/8" Tenon)	688138CLR
Horizontal Slip Fitter (2" - 2 3/8" Tenon)	652761CLR
Quick Mount Pole Bracket (Square Pole)	687073CLR
Quick Mount Pole Bracket (4-5" Round Pole)	689903CLR
15 Tilt Quick Mount Pole Bracket (Square Pole)	688003CLR
15 Tilt Quick Mount Pole Bracket (4-5" Round Pole)	689905CLR
Wall Mount Bracket	382132CLR
Wood Pole Bracket (6" Minimum Pole Diameter)	751219CLR

Fusing Options <sup>11</sup>		Shielding Options	
Description	Order Number		
Single Fusing (120V)	<a href="#">See Fusing Accessory Guide</a>	Mirada Small	<a href="#">See Shielding Guide</a>
Single Fusing (277V)		Mirada Medium	
Double Fusing (208V, 240V)		Mirada Large	
Double Fusing (480V)		Zone Medium	
Double Fusing (347V)		Zone Large	
		Slice Medium	

Miscellaneous Accessories	
Description	Order Number
Integral Louver/Shield	690981
Integral House Side Shield	743415
10' Linear Bird Spike Kit (3' Recommended per Luminaire)	751632

### FOOTNOTES:

- 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.
- IMSBT is field configurable via the LSI app that can be downloaded from your smartphone's native app store.
- 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 and 12L Lumen Packages. Consult factory for lead time and availability.

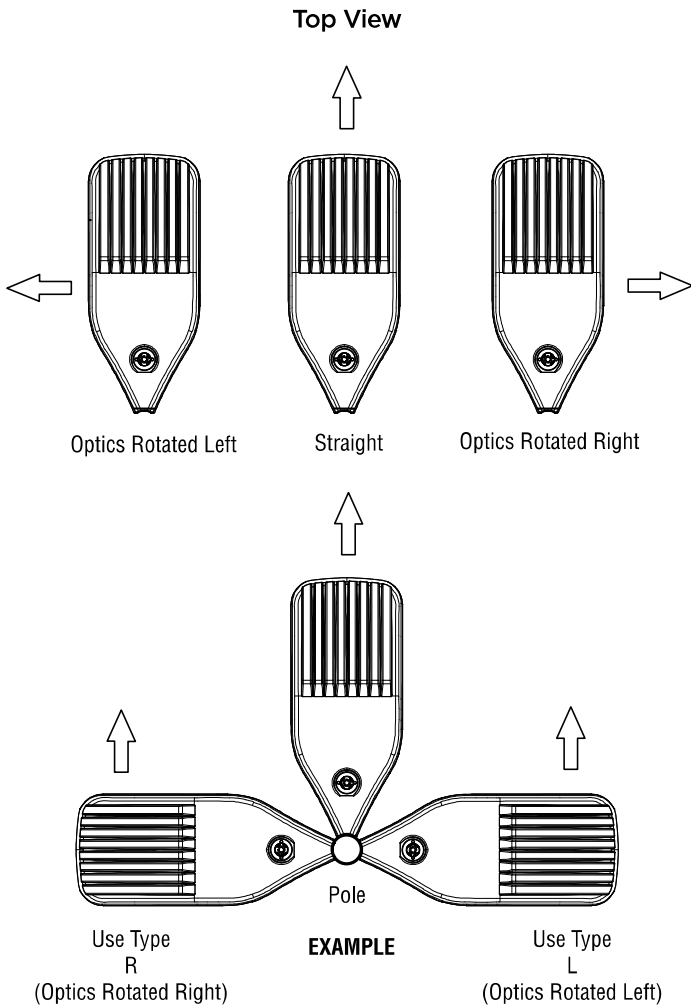






# Mirada Medium Outdoor LED Area Light

## OPTICS ROTATION



## ACCESSORIES/OPTIONS

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

Accessory louver and shield available for improved backlight control without sacrificing street side performance. LSI's Integral Louver (L) 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 with the optical distribution.

Luminaire Shown with IMSBT & IL/IH Options



### 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 PCR 7P





# Mirada Medium Outdoor LED Area Light

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## PERFORMANCE

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	
7L	2	70	7560	157	B2-U0-G2	7560	157	B2-U0-G2	7560	157	B2-U0-G2	48
	3		7616	159	B1-U0-G2	7616	159	B1-U0-G2	7616	159	B1-U0-G2	
	5W		7292	152	B3-U0-G1	7292	152	B3-U0-G1	7292	152	B3-U0-G1	
	FT		7562	158	B2-U0-G2	7562	158	B2-U0-G2	7562	158	B2-U0-G2	
	FTA		7595	158	B2-U0-G2	7595	158	B2-U0-G2	7595	158	B2-U0-G2	
	AM		7687	160	B1-U0-G1	7687	160	B1-U0-G1	7687	160	B1-U0-G1	
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	
	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	
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	
	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	
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	
	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	
24L	2	70	25957	147	B4-U0-G3	25957	147	B4-U0-G3	25957	147	B4-U0-G3	176
	3		26149	149	B3-U0-G4	26149	149	B3-U0-G4	26149	149	B3-U0-G4	
	5W		25037	142	B5-U0-G3	25037	142	B5-U0-G3	25037	142	B5-U0-G3	
	FT		25964	148	B3-U0-G4	25964	148	B3-U0-G4	25964	148	B3-U0-G4	
	FTA		26077	148	B3-U0-G3	26077	148	B3-U0-G3	26077	148	B3-U0-G3	
	AM		26393	150	B3-U0-G2	26393	150	B3-U0-G2	26393	150	B3-U0-G2	
30L	2	70	32417	140	B4-U0-G3	32417	140	B4-U0-G3	32417	140	B4-U0-G3	232
	3		32656	141	B3-U0-G4	32656	141	B3-U0-G4	32656	141	B3-U0-G4	
	5W		31267	135	B5-U0-G3	31267	135	B5-U0-G3	31267	135	B5-U0-G3	
	FT		32424	140	B3-U0-G4	32424	140	B3-U0-G4	32424	140	B3-U0-G4	
	FTA		32566	140	B4-U0-G3	32566	140	B4-U0-G3	32566	140	B4-U0-G3	
	AM		32960	142	B3-U0-G3	32960	142	B3-U0-G3	32960	142	B3-U0-G3	
36L	2	70	38275	133	B4-U0-G4	38275	133	B4-U0-G4	38275	133	B4-U0-G4	288
	3		38557	134	B4-U0-G5	38557	134	B4-U0-G5	38557	134	B4-U0-G5	
	5W		36917	128	B5-U0-G4	36917	128	B5-U0-G4	36917	128	B5-U0-G4	
	FT		38283	133	B4-U0-G5	38283	133	B4-U0-G5	38283	133	B4-U0-G5	
	FTA		38450	134	B4-U0-G4	38450	134	B4-U0-G4	38450	134	B4-U0-G4	
	AM		38916	135	B3-U0-G3	38916	135	B3-U0-G3	38916	135	B3-U0-G3	





# Mirada Medium Outdoor LED Area Light

## 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	
42L	2	70	44118	125	B5-U0-G4	44118	125	B5-U0-G4	44118	125	B5-U0-G4	354
	3		44444	126	B4-U0-G5	44444	126	B4-U0-G5	44444	126	B4-U0-G5	
	5W		42555	120	B5-U0-G4	42555	120	B5-U0-G4	42555	120	B5-U0-G4	
	FT		44130	125	B4-U0-G5	44130	125	B4-U0-G5	44130	125	B4-U0-G5	
	FTA		44322	125	B4-U0-G4	44322	125	B4-U0-G4	44322	125	B4-U0-G4	
	AM		44859	127	B4-U0-G3	44859	127	B4-U0-G3	44859	127	B4-U0-G3	
48L	2	70	48795	122	B5-U0-G4	48795	122	B5-U0-G4	48795	122	B5-U0-G4	401
	3		49156	123	B4-U0-G5	49156	123	B4-U0-G5	49156	123	B4-U0-G5	
	5W		47066	117	B5-U0-G4	47066	117	B5-U0-G4	47066	117	B5-U0-G4	
	FT		48809	122	B4-U0-G5	48809	122	B4-U0-G5	48809	122	B4-U0-G5	
	FTA		49021	122	B5-U0-G4	49021	122	B5-U0-G4	49021	122	B5-U0-G4	
	AM		49615	124	B4-U0-G3	49615	124	B4-U0-G3	49615	124	B4-U0-G3	

ELECTRICAL DATA (AMPS)*						
Lumens	120V	208V	240V	277V	347V	480V
7L	0.40	0.23	0.20	0.17	0.14	0.10
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	1.47	0.85	0.73	0.64	0.51	0.37
30L	1.93	1.12	0.97	0.84	0.67	0.48
36L	2.40	1.38	1.20	1.04	0.83	0.60
42L	2.95	1.70	1.48	1.28	1.02	0.74
48L	3.4A	1.9A	1.7A	1.5A	1.2A	0.8A

ELECTRICAL DATA - PHOSPHOR CONVERTED AMBER (AMPS)*							
Lumens	Watts	120V	208V	240V	277V	347V	480V
9L	74.3	0.6A	0.4A	0.3A	0.3A	0.2A	0.2A
12L	102.9	0.9A	0.5A	0.4A	0.4A	0.3A	0.2A

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

RECOMMENDED LUMEN MAINTENANCE <sup>1</sup> (7-18L)					
Ambient	Initial <sup>2</sup>	25h <sup>2</sup>	50hr <sup>2</sup>	75hr <sup>2</sup>	100hr <sup>2</sup>
0-50 C	100%	96%	92%	88%	84%

RECOMMENDED LUMEN MAINTENANCE <sup>1</sup> (24-48L)					
Ambient	Initial <sup>2</sup>	25h <sup>2</sup>	50hr <sup>2</sup>	75hr <sup>2</sup>	100hr <sup>2</sup>
0-40 C	100%	100%	97%	94%	92%

- Lumen maintenance values at 25C are calculated per TM-21 based on LM-80 data and in-situ testing.
- 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.
- 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 610nm)			Wattage
		Delivered Lumens	Efficacy	BUG Rating	
9L	2	5848	80	B2-U0-G2	74
	2 - IL	3644	50	B0-U0-G1	
	3	6018	82	B1-U0-G2	
	3 - IL	4468	61	B0-U0-G2	
	5W	5471	74	B3-U0-G1	
	FT	5801	79	B1-U0-G2	
	FT - IL	3649	50	B0-U0-G1	
	FTA	5924	81	B1-U0-G1	
	FTA - IL	4243	58	B1-U0-G1	
12L	2	7530	74	B2-U0-G2	102
	2 - IL	4692	46	B0-U0-G1	
	3	7749	76	B1-U0-G2	
	3 - IL	5753	57	B0-U0-G2	
	5W	7045	69	B3-U0-G2	
	FT	7470	73	B2-U0-G2	
	FT - IL	4699	46	B0-U0-G2	
	FTA	7628	75	B2-U0-G2	
	FTA-IL	5464	54	B1-U0-G1	

\*LEDs are frequently updated therefore values are nominal.





# Mirada Medium Outdoor LED Area Light

## 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 <https://www.lsicorp.com/product/mirada-medium/> for detailed photometric data.

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

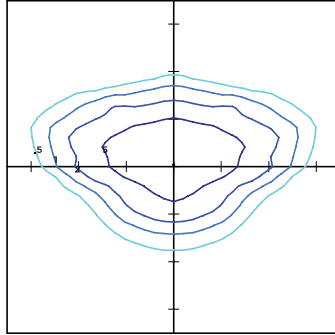
#### LUMINAIRE DATA

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

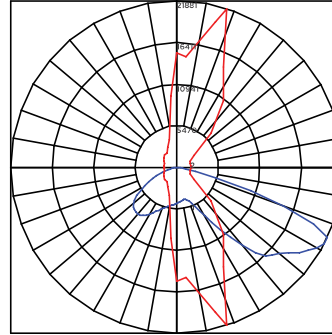
#### Zonal Lumen Summary

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%

#### ISO FOOTCANDLE



#### POLAR CURVE



25' Mounting Height/ 25' Grid Spacing

■ 5 FC ■ 2 FC ■ 1 FC ■ 0.5 FC

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

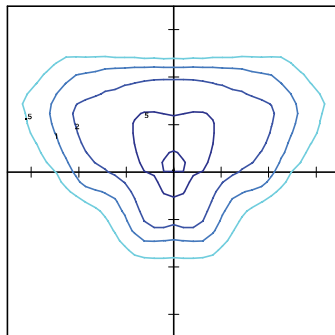
#### LUMINAIRE DATA

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

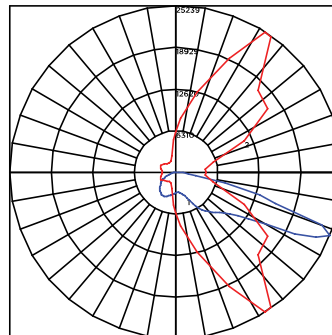
#### Zonal Lumen Summary

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%

#### ISO FOOTCANDLE



#### POLAR CURVE



25' Mounting Height/ 25' Grid Spacing

■ 5 FC ■ 2 FC ■ 1 FC ■ 0.5 FC

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

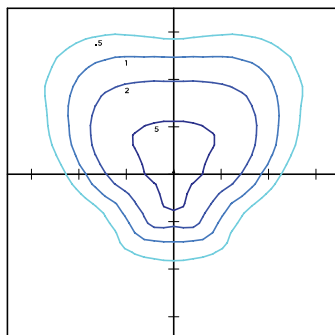
#### LUMINAIRE DATA

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

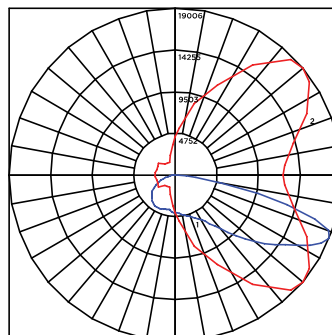
#### Zonal Lumen Summary

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%

#### ISO FOOTCANDLE



#### POLAR CURVE



20' Mounting Height/ 15' Grid Spacing

■ 20 FC ■ 10 FC ■ 5 FC ■ 2 FC





# Mirada Medium Outdoor LED Area Light

## PHOTOMETRICS (CONT)

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

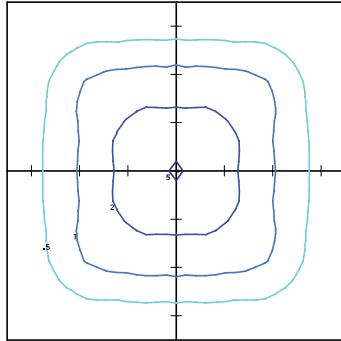
#### LUMINAIRE DATA

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%

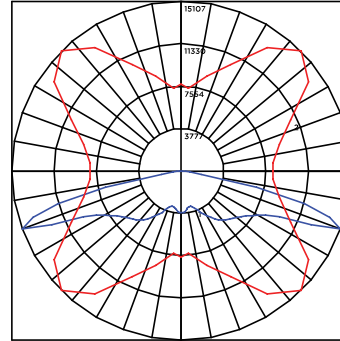
#### ISO FOOTCANDLE



25' Mounting Height/ 25' Grid Spacing

■ 5 FC  
 ■ 2 FC  
 ■ 1 FC  
 ■ 0.5 FC

#### POLAR CURVE



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

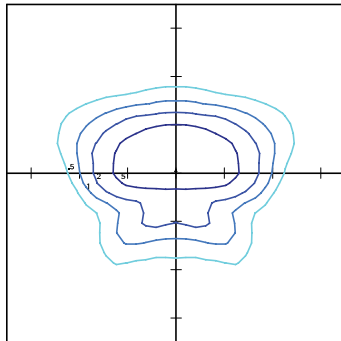
#### LUMINAIRE DATA

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%

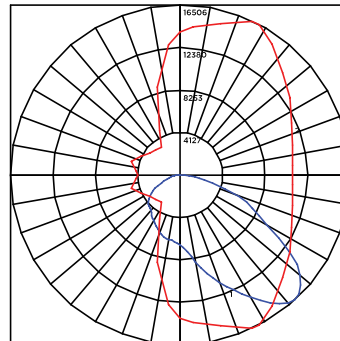
#### ISO FOOTCANDLE



25' Mounting Height/ 25' Grid Spacing

■ 5 FC  
 ■ 2 FC  
 ■ 1 FC  
 ■ 0.5 FC

#### POLAR CURVE



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

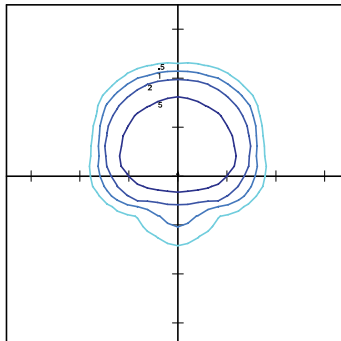
#### LUMINAIRE DATA

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	9%
Medium (30-60)°	22026	43%
High (60-80)°	4192	48%
Very High (80-90)°	379	1%
Uplight (90-180)°	0	0%
Total Flux	32960	100%

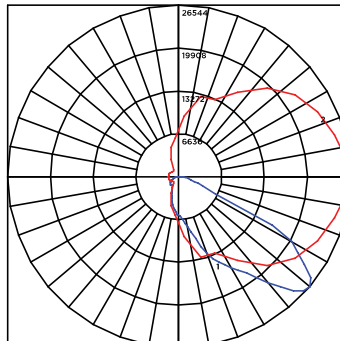
#### ISO FOOTCANDLE



25' Mounting Height/ 25' Grid Spacing

■ 5 FC  
 ■ 2 FC  
 ■ 1 FC  
 ■ 0.5 FC

#### POLAR CURVE

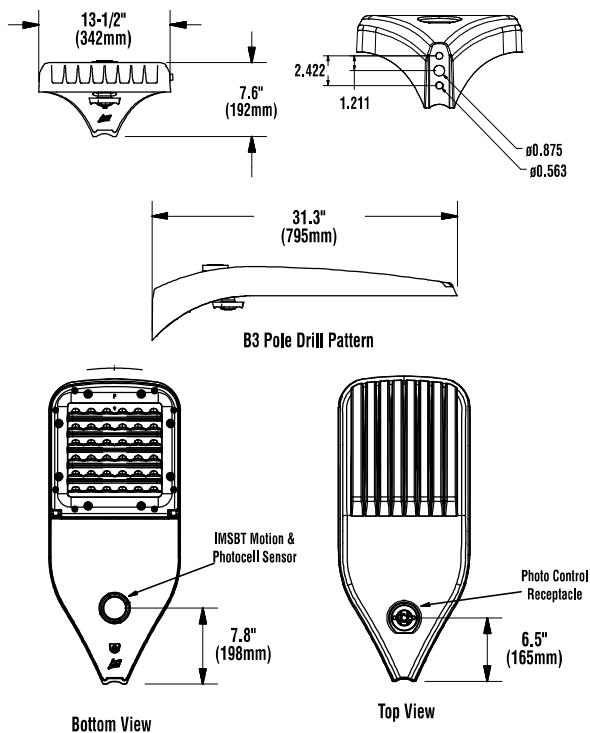




# Mirada Medium Outdoor LED Area Light

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## PRODUCT DIMENSIONS



LUMINAIRE EPA CHART - MRM									
Tilt Degree		0°	30°	45°	Tilt Degree		0°	30°	45°
Single		0.5	1.5	1.9	T90°		1.0	2.5	2.8
D180°		1.0	1.5	1.9	TN120°		1.0	3.3	3.9
D90°		0.8	1.9	2.3	Q90°		1.0	2.5	2.8

## CONTROLS

### AirLink Wireless Lighting Controller

The AirLink integrated controller is a California Title 24 compliant lighting controller that provides real-time light monitoring and control with utility-grade power monitoring. It includes a 24V sensor input and power supply to connect a sensor into the outdoor AirLink wireless lighting system. The wireless integrated controller is compatible with this fixture.

Click the link below to learn more details about AirLink.

<https://www.lsicorp.com/wp-content/uploads/documents/products/airlink-outdoor-specsheet.pdf>

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

Slim low profile sensor provides multi-level control based on motion and/or daylight. Sensor controls 0-10 VDC LED drivers and is rated for cold and wet locations (-30° C to 70° C). 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 the link below to learn more details about IMSBT.

<https://www.lsicorp.com/wp-content/uploads/documents/products/imsbt-specsheet.pdf>

### AirLink Blue

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 the link below to learn more details about AirLink Blue.

<https://www.lsicorp.com/product/airlink-blue/>







# Mirada Medium Outdoor LED Area Light

## POLES & BRACKETS

LSI offers a full line of poles and mounting accessories to complete your lighting assembly. Aluminum and steel in both square and round shafts. In addition, LSI offers round tapered, fluted and hinge based poles. Designed and engineered for durability and protected with our oven baked DuraGrip Protection System. Also available with our DuraGrip+ Protection system for unmatched corrosion resistance and an extended warranty. American made in our Ohio facility with industry leading lead times.

Click the link below to learn more details about poles & brackets.

<https://www.lsicorp.com/products/poles-brackets/>



### BKA UMB CLR

The 3G rated UMB allows for seamless integration of LSI luminaires onto existing/ retrofit or new construction poles. The UMB was designed for square or round (tapered or straight) poles with two mounting hole spacings between 3.5" – 5".



### BKS PQM15 CLR

The Pole Quick Mount Bracket allows for preset 15° up tilt of LSI luminaires for greater throw of light and increased vertical illumination as well as fast installation onto poles with LSI's 3" or 5" bolt pattern.



### BKA ASF CLR

The adjustable Slip Fitter is a 3G rated rugged die cast aluminum adapter to mount LSI luminaires onto a 2" iron pipe, 2 3/8 OD tenon. The Adjustable Slip Fitter can be rotated 180° allowing for tilting LSI luminaires up to 45° and 90° when using a vertical tenon.



### BKS PQMH CLR

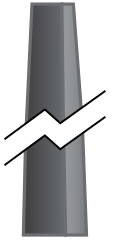
The Pole Quick Mount Bracket allows for lightning fast installation of LSI luminaires onto existing and new construction poles with LSI's B3 or B5 standard pole bolt patterns.



Square Pole  
14'-39'



Round Pole  
10'-30'



Tapered Pole  
20'-39'





# Mirada Medium Wall Sconce (XWM)

## Outdoor Wall Sconce



OVERVIEW	
Lumen Package	3,000 - 21,000
Wattage Range	23 - 175
Efficacy Range (LPW)	125 - 158
Weight lbs(kg)	27 (12.2)
Control Options	IMSBT, ALB, ALS, PCI

### QUICK LINKS

## FEATURES & SPECIFICATIONS

### Construction

- Rugged die-cast aluminum housing contains factory prewired driver and optical unit. Hinged die-cast aluminum wiring access door located underneath.
- Galvanized-steel universal wall mount bracket comes standard with hinging mechanism to easily access the junction box wire connections without removing the luminaire.
- Optional pole-mounting bracket (XPMa) permits mounting to standard 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.
- Max shipping weight: 30lbs in carton

### Optical System

- State-of-the-Art one piece silicone optic provides industry leading optical control while also acting as an integrated gasket reducing system complexity and improving fixture reliability.
- Proprietary silicone refractor optics provide exceptional coverage and uniformity in Types 2, 3, 4, and FT distributions.
- 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.

### 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
- Total harmonic distortion (THD): <20%
- 3L to 12L operating temperature: -40°C to +50°C (-40°F to +122°F)
- 15L operating temperature: -40°C to +45°C (-40°F to +113°F).
- 18L operating temperature: -40°C to +40°C (-40°F to +104°F).
- 21L operating temperature: -40°C to +35°C (-40°F to + 95°F).
- Power factor (PF): >.90
- Input power stays constant over life.
- Optional 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 and key electronic components can easily be accessed via hinged door.
- Optional integral emergency battery pack provides 90-minutes of constant power to the LED system, ensuring code compliance. A test switch/indicator button is installed on the housing for ease of maintenance. The fixture delivers 1500 lumens during emergency mode.

### Controls

- Integral passive infrared Bluetooth™ motion sensor options. Fixtures operate independently and can be commissioned via an iOS or Android configuration app. Updates and modifications to the control strategy are easily implemented via an intuitive app.

- LSI's AirLink™ Blue lighting control system is a simple feature rich wireless Bluetooth mesh network. The integrated fixture sensor module provides wireless control of grouped fixtures based on motion sensors, daylight or a fully customizable schedule.

### Installation

- Universal wall mounting plate easily mounts directly to 4" octagonal or square junction box.
- 2 fasteners secure the hinged door underneath the housing and provide quick & easy access to the electrical compartment for installing/servicing.
- Optional terminal block accepts up to 12 ga wire.

### Warranty

- LSI luminaires carry a 5-year limited warranty. Refer to <https://www.lsicorp.com/resources/terms-conditions-warranty/> for more information.
- 1 Year warranty on Battery Back-up option.

### Listings

- Listed to UL 1598 and UL 8750.
- Meets Buy American Act requirements.
- IDA compliant; with 3000K or lower color temperature selection.
- Title 24 Compliant; see local ordinance for qualification information.
- Suitable for wet Locations.
- IP65 rated luminaire per IEC 60598.
- 3G rated for ANSI C136.31 high vibration applications when pole mounted (using optional XPMa bracket) or wall mounted.
- IK08 rated luminaire per IEC 66262 mechanical impact code
- DesignLights Consortium® (DLC) Premium qualified product. Not all versions of this product may be DLC Premium qualified. Please check the DLC Qualified Products List at [www.designlights.org/QPL](http://www.designlights.org/QPL) to confirm which versions are qualified.

# Mirada Medium Wall Sconce (XWM) Outdoor Wall Sconce

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

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

## ORDERING GUIDE

[Back to Quick Links](#)

TYPICAL ORDER EXAMPLE: XWM 2 LED 03L 30 UE BRZ ALSC				
Family	Distribution	Light Source	Lumen Package	Color Temperature
XWM - Mirada Medium Wall Sconce	2 - Type 2 3 - Type 3 4 - Type 4 FT - Type 4 Forward Throw	LED	3L - 3,000 4L - 4,000 6L - 6,000 8L - 8,000 12L - 12,000 15L - 15,000 18L - 18,000 21L - 21,000 Custom Lumen Packages <sup>1</sup>	30 - 3000K 40 - 4000K 50 - 5000K AMB - Phosphor Converted Amber <sup>2</sup>
Voltage	Finish	Controls		Options
UE - Universal Voltage (120-277V) HV - High Voltage (347-480V)	BLK - Black BRZ - Dark Bronze GMG - Gun Metal Gray GPT - Graphite MSV - Metallic Silver PLP - Platinum Plus SVG - Satin Verde Green WHT - White	Blank - None <b>Wireless Controls</b> ALSC - AirLink Synapse Control System ALSCS01 - AirLink Synapse Control System with 8-12' Motion Sensor ALSCS02 - AirLink Synapse Control System with 12-20' Motion Sensor ALBCS1 - AirLink Blue Wireless Motion & Photo Sensor Controller (8-24' MH) <sup>3</sup> ALBCS2 - AirLink Blue Wireless Motion & Photo Sensor Controller (25-40' MH) <sup>3</sup> <b>Standalone Controls</b> DIM - 0-10v Dimming leads extended to housing exterior IMSBT1 - Integral Bluetooth™ Motion and Photocell Sensor (8-24' MH) <sup>3,4</sup> IMSBT2 - Integral Bluetooth™ Motion and Photocell Sensor (25-40' MH) <sup>3,4</sup> <b>Button Type Photocells</b> PCI120 - 120V PCI208-277 - 208 -277V PCI347 - 347V		Blank - None BB - Battery Back-up (0°C) <sup>5</sup> CWBB - Cold Weather Battery Backup (-20°C) <sup>5</sup> XPMA - Pole Mounting Bracket SP1 - 10kV Surge Protection TB - Terminal Block



**Need more information?**  
Click here for our glossary

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



### FUSING ACCESSORY ORDERING INFORMATION<sup>6</sup>

Part Number	Description
FK120 <sup>7</sup>	FK120 - Single Fusing
FK277 <sup>7</sup>	FK277 - Single Fusing
FK347 <sup>7</sup>	FK347 - Single Fusing
DFK208 <sup>7</sup>	DFK - Double Fusing
DFK240 <sup>7</sup>	DFK - Double Fusing (240V)
DFK480 <sup>7</sup>	DFK - Double Fusing (480V)

### MOUNTING ACCESSORY ORDERING INFORMATION<sup>6</sup>

Part Number <sup>8</sup>	Description
356915CLR	XWM Wet Location Surface Conduit/Wiring Box
751632	10' Linear Bird Spike Kit (2' Recommended per Luminaire)

1 Custom lumen and wattage packages available consult factory. Values are within industry standard tolerances but not DLC listed.  
2 Only available in 6L Lumen Package. Consult factory for lead time and availability.  
3 IMSBT and ALBCS control options are not available in 3L or 4L lumen packages when high voltage (HV) is specified.  
4 IMSBTxL is field configurable via the Leviton app that can be downloaded from your smartphone's app store.

5 Not available in HV.  
6 Accessories are shipped separately and field installed.  
7 Fusing must be located in a hand hole for pole or in the junction box.  
8 "CLR" to be replaced by paint finish selection. See Finish options for paint color selections.

# Mirada Medium Wall Sconce (XWM) Outdoor Wall Sconce

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

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

## PERFORMANCE

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Delivered Lumens <sup>1</sup>												
Lumen Package	Distribution	CRI	3000K			4000K			5000K			Wattage
			Delivered Lumens	Efficacy	BUG Rating	Delivered Lumens	Efficacy	BUG Rating	Delivered Lumens	Efficacy	BUG Rating	
3L	2	70	3,178	138	B1-U0-G1	3,368	146	B1-U0-G1	9,853	159	B1-U0-G1	23
	3		3,224	140	B1-U0-G1	3,416	148	B1-U0-G1	3,361	145	B1-U0-G1	
	4		3,210	140	B1-U0-G2	3,364	146	B1-U0-G2	3,294	143	B1-U0-G2	
	FT		3,160	137	B1-U0-G1	3,349	145	B1-U0-G1	3,294	143	B1-U0-G1	
4L	2	70	4,230	139	B1-U0-G1	4,483	147	B1-U0-G1	4,410	145	B1-U0-G1	30
	3		4,291	141	B1-U0-G1	4,547	150	B1-U0-G1	4,473	147	B1-U0-G1	
	4		4,234	141	B1-U0-G2	4,437	148	B1-U0-G2	4,344	145	B1-U0-G2	
	FT		4,206	138	B1-U0-G1	4,458	147	B1-U0-G1	4,385	144	B1-U0-G1	
6L	2	70	6,326	134	B2-U0-G1	6,704	142	B2-U0-G2	6,595	140	B2-U0-G2	47
	3		6,417	136	B1-U0-G2	6,800	144	B2-U0-G2	6,689	142	B2-U0-G2	
	4		6,336	135	B1-U0-G3	6,640	141	B1-U0-G3	6,500	138	B1-U0-G3	
	FT		6,290	134	B2-U0-G2	6,666	142	B2-U0-G2	6,557	139	B2-U0-G2	
8L	2	70	8,166	128	B2-U0-G2	8,654	135	B2-U0-G2	8,513	133	B2-U0-G2	64
	3		8,283	129	B2-U0-G2	8,778	137	B2-U0-G2	8,635	134	B2-U0-G2	
	4		8,362	131	B1-U0-G3	8,763	137	B2-U0-G3	8,579	134	B1-U0-G3	
	FT		8,120	126	B2-U0-G2	8,605	134	B2-U0-G2	8,465	132	B2-U0-G2	
12L	2	70	11,492	149	B2-U0-G2	12,033	156	B3-U0-G2	11,927	155	B3-U0-G2	77
	3		11,757	153	B2-U0-G2	12,311	160	B2-U0-G2	12,203	158	B2-U0-G2	
	4		11,486	149	B2-U0-G3	12,058	157	B2-U0-G3	11,716	152	B2-U0-G3	
	FT		11,721	152	B2-U0-G2	12,274	159	B2-U0-G3	12,166	158	B2-U0-G3	
15L	2	70	14,221	145	B3-U0-G2	14,891	152	B3-U0-G2	14,760	151	B3-U0-G2	98
	3		14,549	148	B2-U0-G2	15,235	155	B2-U0-G2	15,101	154	B2-U0-G2	
	4		14,099	144	B2-U0-G3	14,801	151	B2-U0-G3	14,382	147	B2-U0-G3	
	FT		14,505	148	B2-U0-G3	15,189	155	B2-U0-G3	15,055	154	B2-U0-G3	
18L	2	70	16,894	138	B3-U0-G3	17,690	145	B3-U0-G3	17,534	144	B3-U0-G3	122
	3		17,285	142	B3-U0-G3	18,099	148	B3-U0-G3	17,940	147	B3-U0-G3	
	4		16,951	139	B2-U0-G3	17,795	146	B3-U0-G3	17,291	142	B3-U0-G3	
	FT		17,231	141	B3-U0-G3	18,044	148	B3-U0-G3	17,885	147	B3-U0-G3	
21L	2	70	19,961	133	B3-U0-G3	20,902	139	B3-U0-G3	20,718	138	B3-U0-G3	150
	3		20,422	136	B3-U0-G3	21,385	143	B3-U0-G3	21,197	141	B3-U0-G3	
	4		19,768	132	B3-U0-G4	20,753	138	B3-U0-G5	20,165	134	B3-U0-G4	
	FT		20,360	136	B3-U0-G3	21,320	142	B3-U0-G3	21,132	141	B3-U0-G3	

Electrical Data (Amps) – 3000K/4000K/5000K <sup>2</sup>						
Lumen Package	120V	208V	240V	277V	347V	480V
3L	0.19	0.11	0.10	0.08	0.07	0.05
4L	0.25	0.14	0.13	0.11	0.09	0.06
6L	0.39	0.23	0.20	0.17	0.14	0.10
9L	0.53	0.31	0.27	0.23	0.18	0.13
12L	0.64	0.37	0.32	0.28	0.22	0.16
15L	0.82	0.47	0.41	0.35	0.28	0.20
18L	1.02	0.59	0.51	0.44	0.35	0.25
21L	1.25	0.72	0.63	0.54	0.43	0.31

Delivered Lumens (Phosphor Converted Amber)					
Lumen Package	Distribution	Amber			Wattage
		Delivered Lumens	Efficacy	BUG Rating	
6L	2	3,325	76	B1-U0-G1	44
	3	3,385	78	B1-U0-G1	
	4	3,310	75	B1-U0-G1	
	FT	3,343	77	B1-U0-G1	

Recommended Lumen Maintenance – XWM <sup>3</sup>					
Ambient Temperature °C	Initial <sup>4</sup>	25K hrs. <sup>4</sup>	50K hrs. <sup>4</sup>	75K hrs. <sup>5</sup>	100K hrs. <sup>5</sup>
35	99%	97%	95%	93%	91%
50	100%	98%	95%	93%	90%

<sup>1</sup> LEDs are frequently updated therefore values are nominal

<sup>2</sup> Electrical data at 25C (77F). Actual wattage may differ by +/-10%.

<sup>3</sup> Lumen maintenance values at 25°C are calculated per TM-21 based on LM-80 data and in-situ luminaire testing.

<sup>4</sup> In accordance with IESNA TM-21-11, Projected Values represent interpolated value based on time durations that are within six times (6X) the IESNA LM-80-08 total test duration (in hours) for the device under testing ((DUT) i.e. the packaged LED chip).

<sup>5</sup> In accordance with IESNA TM-21-11, Calculated Values represent time durations that exceed six times NA LM-80-08 total test duration (in hours) for the device under testing ((DUT) i.e. the packaged LED chip).

# Mirada Medium Wall Sconce (XWM) Outdoor Wall Sconce

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

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

## 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%.

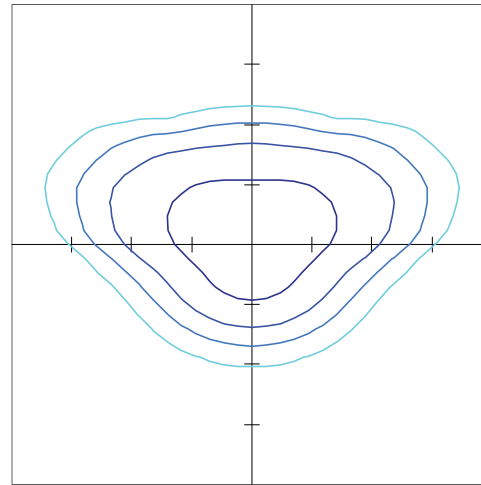
See the individual product page on <https://www.lsicorp.com/> for detailed photometric data.

### XWM-2-LED-12L-40

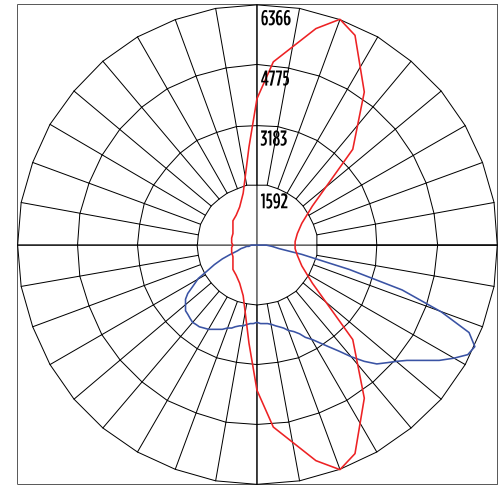
Luminaire Data	
Type 2 Distribution	
Description	4000 Kelvin, 70 CRI
Delivered Lumens	12,033
Watts	77
Efficacy	156
IES Type	Type II - Short
BUG Rating	B3-U0-G2

Zonal Lumen Summary		
Zone	Lumens	% Luminaire
Low (0-30°)	1,961	16%
Medium (30-60°)	6,874	57%
High (60-80°)	3,014	25%
Very High (80-90°)	184	2%
Uplight (90-180°)	0	0%
<b>Total Flux</b>	<b>12,033</b>	<b>100%</b>

#### ISO Footcandle



#### Polar Curve

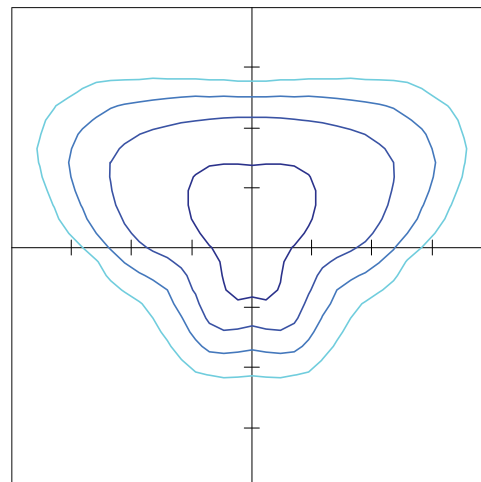


### XWM-3-LED-12L-40

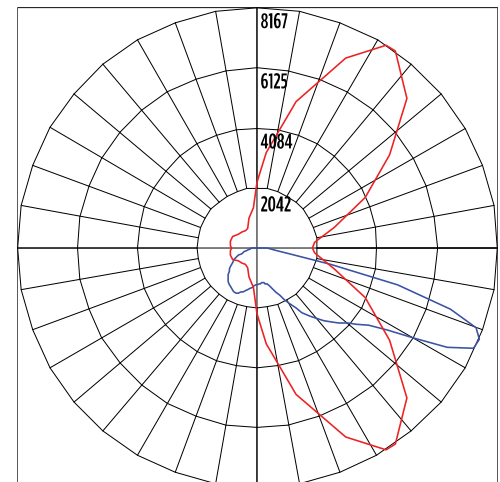
Luminaire Data	
Type 3 Distribution	
Description	4000 Kelvin, 70 CRI
Delivered Lumens	12,311
Watts	77
Efficacy	160
IES Type	Type III - Short
BUG Rating	B2-U0-G2

Zonal Lumen Summary		
Zone	Lumens	% Luminaire
Low (0-30°)	1,340	11%
Medium (30-60°)	6,164	50%
High (60-80°)	4,549	37%
Very High (80-90°)	258	2%
Uplight (90-180°)	0	0%
<b>Total Flux</b>	<b>12,311</b>	<b>100%</b>

#### ISO Footcandle



#### Polar Curve



# Mirada Medium Wall Sconce (XWM) Outdoor Wall Sconce

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

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## PHOTOMETRICS

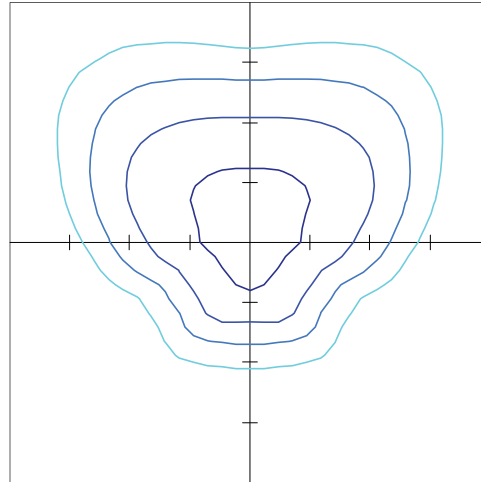
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### XWM-FT-LED-12L-40

Luminaire Data	
Type FT Distribution	
Description	4000 Kelvin, 70 CRI
Delivered Lumens	12,274
Watts	77
Efficacy	159
IES Type	Type IV - Short
BUG Rating	B2-U0-G3

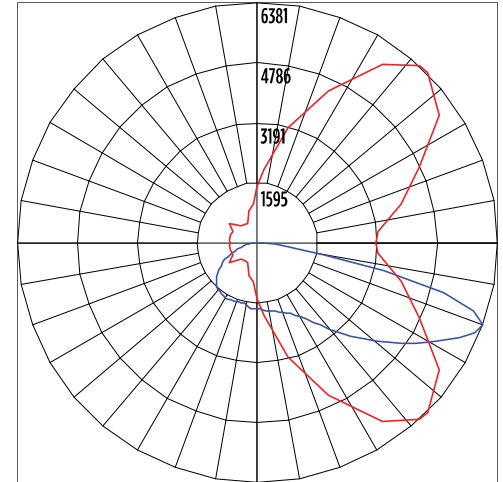
Zonal Lumen Summary		
Zone	Lumens	% Luminaire
Low (0-30°)	1,578	13%
Medium (30-60°)	5,798	47%
High (60-80°)	4,576	37%
Very High (80-90°)	322	3%
Uplight (90-180°)	0	0%
<b>Total Flux</b>	<b>12,274</b>	<b>100%</b>

#### ISO Footcandle



15' Mounting Height / 15' Grid Spacing  
 5 FC 2 FC 1 FC 0.5 FC

#### Polar Curve



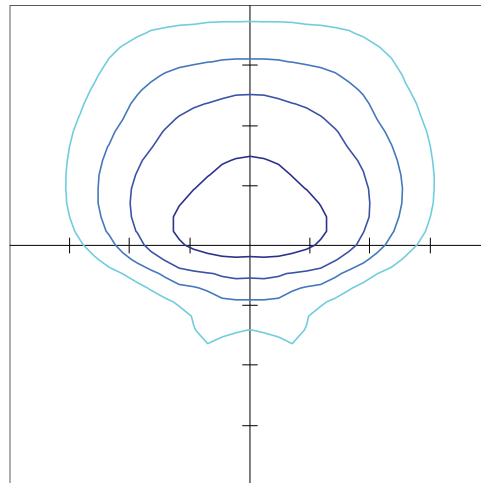
Vertical Plane Horizontal Cone

### XWM-4-LED-12L-40

Luminaire Data	
Type 4 Distribution	
Description	4000 Kelvin, 70 CRI
Delivered Lumens	12,058
Watts	77
Efficacy	157
IES Type	Type IV - Very Short
BUG Rating	B2-U0-G3

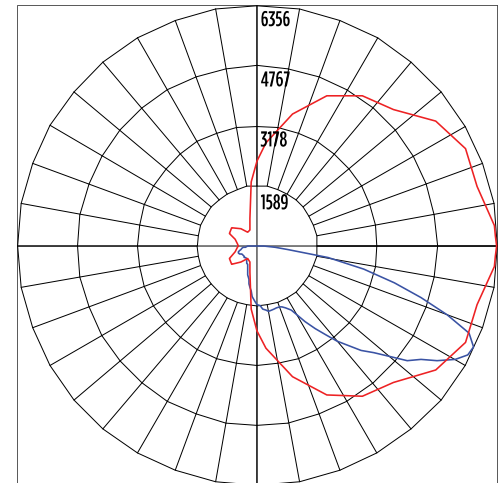
Zonal Lumen Summary		
Zone	Lumens	% Luminaire
Low (0-30°)	1,345	11%
Medium (30-60°)	5,394	45%
High (60-80°)	4,855	40%
Very High (80-90°)	464	4%
Uplight (90-180°)	0	0%
<b>Total Flux</b>	<b>12,058</b>	<b>100%</b>

#### ISO Footcandle



15' Mounting Height / 15' Grid Spacing  
 5 FC 2 FC 1 FC 0.5 FC

#### Polar Curve



Vertical Plane Horizontal Cone



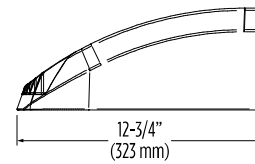
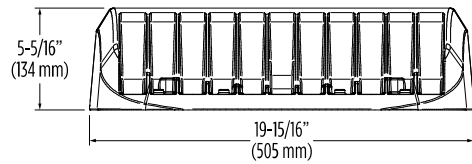
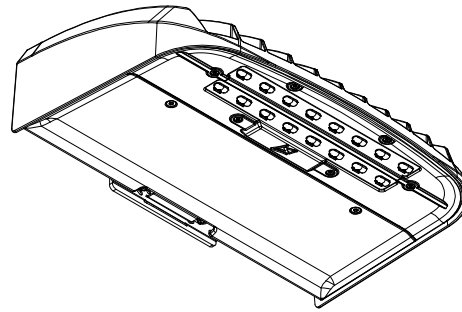
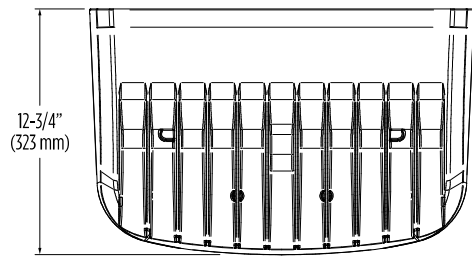
# Mirada Medium Wall Sconce (XWM) Outdoor Wall Sconce

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

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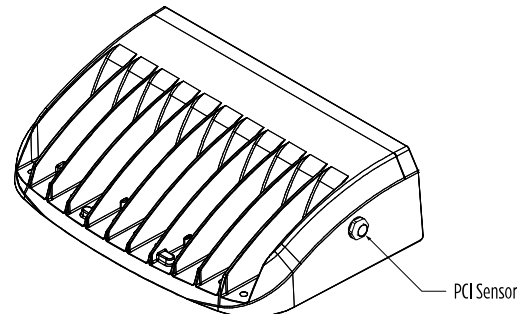
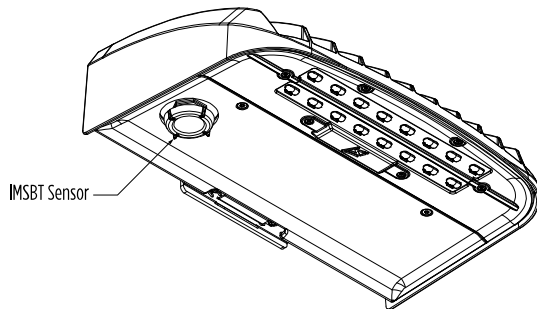
## PRODUCT DIMENSIONS

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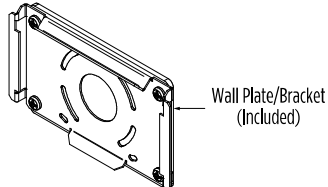
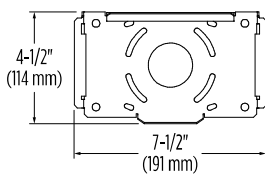
**Mirada Medium Wall Sconce with  
Integral Bluetooth™ Motion and Photocell Sensor**  
(XWM IMSBTxL)

**Mirada Medium Wall Sconce with  
Button Type Photocell**  
(XWM PCI)

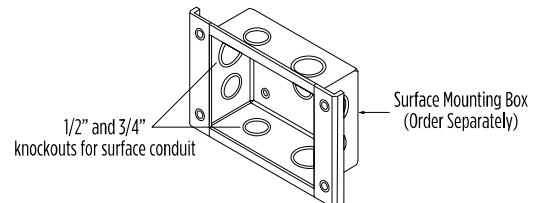


## Mounting Options

**Mounting Over Junction Box**  
(Standard/Included)



**XWM Wet Location Surface Conduit/Wiring Box**  
(356915CLR)



# Mirada Medium Wall Sconce (XWM) Outdoor Wall Sconce

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

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

## CONTROLS

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### 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 Wireless Lighting Controller (ALSC, ALSCS)

The AirLink integrated controller is a California Title 24 compliant lighting controller that provides real-time light monitoring and control with utility-grade power monitoring. It includes a 24V sensor input and power supply to connect a sensor into the outdoor AirLink wireless lighting system. The wireless integrated controller is compatible with this fixture.

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

### 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
IMSBTxL	Motion	No Motion	100%	N/A	On; Auto Calibration	20 minutes	High

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.