

TOWN OF BROOKFIELD
ARCHITECTURAL REVIEW COMMITTEE MINUTES
JUNE 12, 2024

The regular meeting of the Architectural Review Committee was held in the Erich Gnant Room of the Town Hall, 645 N Janacek Road, Brookfield, WI.

1) CALL TO ORDER.

Chairman Dean Pearson called the meeting to order at 6:01 p.m. with the following people present: Town Planner Bryce Hembrook; Town Supervisors John Charlier and Steve Kohlmann; and Committee members Alan Lee, and Matt Paris. Committee Member Richard Diercksmeier was absent and excused.

2) MEETING NOTICES.

Planner Hembrook reported that the meeting was noticed in accordance with Open Meeting Law.

3) APPROVAL OF AGENDA.

Motion by Charlier to approve the agenda.

Seconded by Paris.

Motion carried unanimously.

4) APPROVAL OF MINUTES.

Motion by Charlier to approve the minutes of the May 8, 2024 minutes as presented

Seconded by Paris.

Motion carried unanimously.

5) Old Business:

- a. Peter Antonopoulos, representing Bullwinkle's at the Galleria, to request approval of exterior alterations to allow lighting along the roof and windows (LED Lights), located at 18900 West Bluemound Road, Suite 100.

Planner Hembrook presented the item as follows: Hembrook was informed that Bullwinkle has had exterior lighting installed without going through the approval process. After contacting Bullwinkle's, this item was put on the agenda for last month's meeting. ARC was fine with lighting facing the customer parking lot (Galleria West lot) but had concerns with lighting that faced Brookfield Road. Last month, the ARC recommended allowing the lighting facing the parking lot as described, and lighting facing Brookfield Road is to be dimmed or turned off until the applicant can appear at the next meeting. Courtney, representing Bullwinkle's and a co-owner, apologized for not getting proper approvals. The lights have been dimmed. The lights were installed because they are somewhat far off of Bluemound Road and it helped customers find the restaurant. Paris suggested the foot-candle specifics and photometric plan be verified. Pearson has no issue with the lights facing the inside of Galleria West, and bringing the illumination level down on the Brookfield Road side might be satisfactory. Paris is concerned with light pollution crossing to the care facility across the street. The consensus of the ARC is the front of the building is fine. Kohlmann suggested that Bullwinkle's find out if the lighting can be dimmed on the east side, then take photos at 100%, 50%, and 25%, let Hembrook know when the dimming increments have occurred to advise the members. Paris suggested Hembrook let the members know when it is 50% so they can drive by.

Motion by Kohlmann to approve exterior alterations to allow lighting along the roof and windows (LED Lights) located at 18900 West Bluemound Road, Suite 100, and have staff confirm, based on east lighting showing 25% or 50% of intensity.

Seconded by Lee.

Motion carried 4-1, with Paris dissenting.

6) New Business:

- a. Lisa Burck (Innovative Signs), representing Drake & Associates, is requesting permanent signage approval to reface both sides of an existing monument sign, located at 20965 Crossroads Circle.

Planner Hembrook presented the item as follows:

- Requesting to reface both sides of an existing monument sign to include the company logo and information and the property address;
- Proposed sign will be made of routed aluminum faces with a solid color painted finish. The logo, letter detail, bottom copy, and address will be detailed with blockout vinyl;
- Proposed sign is approximately 30 square feet in size per side. According to the code each side is permitted 70sf of sign display area;
- The existing monument sign appears to be approximately 15' from the property line, thus meeting the 5' minimum requirement;
- Address numerals appear to be about 3"; code typically requires a minimum of 8";
- Note: there is also a small sign identifying the address located along the road and within the right-of-way.
- Proposed sign appears to meet all other sign code requirements.

Pearson asked for clarification that the blue background is not illuminated at night, which Hembrook confirmed. A representative from Innovative Signs indicated horizontally there is not enough room for 8" letters. Pearson suggested removing the name of the road on the sign. A representative from Drake & Associates stated the reason for the road name being included is the typical ages of their clientele is older, and they will know they are in the right place. He also clarified that the "Crossroads Circle" sign mentioned above is not there anymore. A suggestion was made to increase the size of the letters as much as possible. Lee opined that he does not care as much about the street name being on the sign, but the numbers are important. Lee suggested the possibility of abbreviating "Circle" to "Cir." Pearson suggested enlarging numerals, and making "Crossroads Circle" smaller. Pearson raised the question regarding vegetation at the base of the sign, as well as snow potentially covering the address portion of the sign. The Drake representative responded that landscaping is beginning tomorrow and vegetation is planned for both sides of the sign base. Pearson pointed out that the sign is low to the ground and with vegetation and snow, the address may not be seen. The response was that they have already instructed their snow plowers to plow and push snow to the side, mainly due to handicap parking being located near the front where the sign location is. Pearson suggested the possibility of moving the address line up to the main signage area, under the line "Wealth Management".

Motion by Charlier to approve permanent signage to reface both sides of an existing monument sign, located at 20965 Crossroads Circle, with the stipulation that the designer increases the size of the address at the bottom as large as possible, and submit to Planner Hembrook for final approval.

Seconded by Kohlmann.

Pearson mentioned that in the earlier discussion, a suggestion was made to abbreviate "Circle" to "Cir.", and that can be considered as an option as well. The designer could submit two options to Hembrook for approval.

Motion carried unanimously.

- b. William Stace, representing St. John's Lutheran Church, is requesting approval of exterior lighting alterations in the parking area and drive access area for the property located at 20275 Davidson Road.

Planner Hembrook described the project as follows: We Energies had lights on the site for many years and are now being removed. Applicant is proposing replacing those lights with 4 light poles and 5 lights. At the time of the Town Engineer's review, the photo metrics were not meeting the requirement, however since that time adjustments have been made with the lighting expert. Mr. Stace stated that the poles are in same locations as the ones removed, with some previous locations not being used.

The lights will shine straight down, and are blocked from the back. There is a timer for the lights, usually off by 10:00pm. Kohlmann asked about glare shields. Stace responded that these lights are essentially the same design as the ones in the parking lot that shine straight down. Kohlmann reminded those present that this is a residential area. External glare shields can be purchased. Paris opined that theoretically, these fixtures should be better than what was there in considering how previous lighting may have affected neighbors. Pearson noted the fixtures have the option to tilt up, but they need to point down so the fixture is horizontal, as per the ordinance. External shield options were discussed. Lee noted that the shields do not appear to be very expensive, so why not have them on right away. Stace responded that he was proposing what was recommended by the lighting expert.

Motion by Paris to approve exterior lighting alterations in the parking area and drive access area for the property located at 20275 Davidson Road.

Seconded by Kohlmann.

Further discussion: Pearson inquired whether to amend the motion that clarifies that there are shields available if an issue arises post installation. Paris agreed to amend his motion to include that detail. Kohlmann was in agreement.

Motion carried 4-1, with Lee dissenting.

7) COMMUNICATION AND ANNOUNCEMENTS.

Kohlmann noted to the committee that long-time resident and current Plan Commission member Gordon Gaeth passed away. Funeral is to be held on Friday, June 21 at St. John Vianney in Brookfield.

8) ADJOURN.

Motion by Kohlmann to adjourn at 6:54pm.

Seconded by Lee.

Motion carried unanimously.

Respectfully submitted,
Bryce Hembrook, Town Planner



Building a Better World
for All of Us®

TOWN OF BROOKFIELD ARCHITECTURAL REVIEW COMMITTEE STAFF REPORT

TO: Architectural Review Committee

FROM: Bryce Hembrook, AICP
Town Planner

REPORT DATE: August 9, 2024
ACC MEETING DATE: August 14, 2024

RE: ARC Staff Report – August 2024 Agenda Items

Master Spa Warehouse – Lighting Review

Applicant: Keith Hueffner

Location: 21675 Doral Rd

- The Master Spas project received final approval from the Town Board on the condition that the applicant go back to the Architectural Review Committee for final approval for the lighting plan.

Harvard Square – Residing Miscellaneous Architectural Review

Applicant: Robert Flores, Restoration Builders - Representing Harvard Square Baceline, LLC

Location: 18000 West Bluemound Rd – Harvard Square

Request: Review and Approval for changing the color and re-siding the two commercial retail buildings on the property

- The applicant has provided three renderings: One of the existing color scheme, and two alternative color schemes for review and approval by the committee.

Master Spas – Miscellaneous Architectural Review

Applicant: Keith Hueffner

Location: 21675 Doral Rd

Request: Review and Approval for the addition of a dumpster enclosure adjacent to the Master Spas business and alterations to concrete.

- Applicant is requesting to add a trash enclosure near the building on the east side of the property.
- ARC is responsible for reviewing proposed trash enclosures.
- Applicant is also requesting to remove existing concrete canopy structure on the north and south side of the building.
- Also removing and replacing concrete sidewalk on the south side of the building.

Engineers | Architects | Planners | Scientists

Short Elliott Hendrickson Inc., 501 Maple Avenue, Delafield, WI 53018-9351
SEH is 100% employee-owned | sehinc.com | 262.646.6855 | 888.908.8166 fax

Discount Tire – Sign Review**Applicant: J'kayla Hodges, Sign Effectz – Representing Discount Tire****Location: 20120 W Bluemound Rd****Request: Approval of Permanent Wall and Pylon Signage**

- Reapplication Note
 - This is a reapplication. Their previous sign permit was approved in January 2024 and has expired.
 - Plans submitted for the reapplication are consistent with the previously approved plans with minor size changes, as noted below.
 - Conditions of previous permit approval
 - Applicant remove the “Discount Tire” sign on the east side of the building from their plan set. The applicant complied with this request and the permit was approved in January 2024. No east sign is proposed in the current plans.

- Wall Mounted Sign
 - Requesting to add a “face-lit” and “halo” illuminated wall mounted sign above their storefront
 - This is consistent with the previously approved sign
 - Proposed sign is approximately 23.19 square feet in size
 - This is consistent with the previously approved sign
 - Proposed sign will extend 11” from the building
 - This is consistent with the previously approved sign
 - Applicant has provided night renderings of the proposed sign
 - Note: The overall look, colors, and lettering is consistent with the previously approved plans

- Pylon Sign Replacement
 - Requesting to replace an existing monument sign insert
 - This is consistent with the previously approved sign
 - Proposed sign insert will replace the existing 15’ – 1” x 5’ -1” sign
 - These dimensions are slightly different than the previously approved plans. However, the previously approved plans included the note: “Survey Note: Dimensions herein are approximate. Verification required prior to manufacturing.” The current sign size represent field measurements of the existing sign.
 - The sign size is reasonably consistent with the previously approved plans
 - Proposed sign will be internally illuminated. The lettering will be translucent, and the background will be opaque.
 - This is consistent with the previously approved sign
 - Applicant has provided night renderings of the proposed sign.
 - Note: The overall look, colors, and lettering is consistent with the previously approved plans

The Great Greek – Sign Review**Applicant: Aaron Grochowski, Signarama – Representing The Great Greek****Location: 21481 E Moreland Blvd****Request: Approval of Two new Permanent Wall signs and One Pylon Sign Insert Replacement**

- Wall Mounted Signs
 - Logo Sign

- Requesting to add a circular sign. The proposed sign is approximately 12.6 square feet, internally illuminated with a white background, “The Great Greek” in blue letters, and “Mediterranean Grill” in red letters.
 - Name Sign
 - Requesting to add an internally lit wall sign with the logo and “The Great Greek” in blue. The sign is 37.8 square feet.
 - The logo sign white background does not meet Town Code.
 - The total sign area of 50.4 square feet appears to not meet the Town Code area limit of 42 square feet.
 - The Committee may allow the proposed sign to exceed this requirement.
 - The previous signs (Firehouse subs) at this location received an exception to exceed the requirements by 4.15 square feet.
 - Applicant has not provided night renderings of the proposed sign, but staff recommends that these renderings are provided before final sign permit approval.
- Pylon Sign Insert Replacement
 - Requesting to replace an existing pylon sign insert
 - Proposed sign will be 51.9 square feet on each side (103.8 square feet total), internally illuminated with a white background, “The Great Greek” in blue letters, and “Mediterranean Grill” in red letters
 - The sign size meets Town code. The white background does not meet Town Code
 - Applicant has not provided night renderings of the proposed sign, but staff recommends that these renderings are provided before final sign permit approval.

Chuck E. Cheese – Sign Review

Applicant: Aaron Grochowski, Lemberg Electric – Representing Chuck E. Cheese

Location: 19125 W Bluemound Road

Request: Approval of Two new Permanent Wall signs and One Pylon Sign Insert Replacement and repainting.

- The applicant is requesting to replace existing signage and awning with new signage consistent with their rebranding strategy. Chuck E Cheese received approval for exterior alterations within the past year as well.
- Wall Mounted Signs
 - Logo Sign
 - Requesting to add a circular sign. The proposed sign is approximately 49.0 square feet, internally illuminated with a predominantly red background and a mostly grey graphic of the company mascot.
 - Name Sign
 - Requesting to add an internally lit wall sign with the logo and “Chuck E. Cheese” in red. The sign is 68.7 square feet.
 - Both backgrounds for the signs appear to meet code requirements
 - Both wall signs project approximately 7” from the wall and meet Town code
 - The total sign area of 117.7 square feet meets the Town code
 - Applicant has provided night renderings of the proposed sign.
- Pylon Sign Insert Replacement and repainting
 - Requesting to replace an existing pylon sign insert with no alterations to the sign’s physical dimensions.

- Proposed sign dimensions:
 - Lettering area – 57.66 square feet each side, 115.32 square feet total
 - Logo area – 25.76 square feet each side, 51.52 square feet total
 - Total sign area – 84.32 square feet each side, 166.84 square feet total
 - Proposed sign appearance
 - Lettering area will have a white background with “Chuck E. Cheese” in red lettering
 - Logo area will show the company mascot with mostly grey body and green clothing
 - Both areas will be illuminated
 - Proposed painting alteration will make sign structure matte silver with black address numbers
 - The pylon sign size does not meet Town code. However, it is replacing an already approved pylon sign in the same location and not altering the size or structure of the existing sign.
 - The lettering sign illumination appears to meet Town code as the white background will be opaque, limiting the illumination at night. The logo sign illumination does meet Town code.
 - Applicant has provided night renderings of the proposed sign.
- Temporary sign note
 - Notes on the plan call out some temporary signs. These will be internally reviewed by Town staff upon receipt of their individual temporary sign applications.

Silgan Containers – Preliminary and Final Review

Applicant: Ken Krahe

Location: 21027 Crossroads Circle

Request: Review and recommendation for preliminary and final approval for a boiler room and warehouse/mechanical room addition to the existing principal building.

- The applicant is proposing two addition areas: a 23’ x 16’ (368 square feet) boiler room addition, and a 35’ x 117’ (4,095 square feet) warehouse and mechanical room addition. The proposed additions will be to the existing 128,632 square foot 2-story building on site.
- Proposed Size = 4,463 square feet
- Zoning District = B-2 Limited General Business District
- Lot size = 8.5 acres
- Proposed Use (for addition area) = HVAC expansion, warehousing, and mechanical expansion
- Use of rest of building = Office and light warehousing
- Setbacks:
 - Street = 50’
 - Side and rear = 15’
 - All setback requirements are met.
- Maximum building height:
 - Principal = 45’
 - Accessory = 15’
 - Meets code requirements
- Sum total of floor area:
 - Existing = 34.7%
 - Proposed = 37.1%
 - Required = The sum total of the floor area of the principal building and all accessory buildings shall be not less than 6,000 square feet or 15% of the lot area, whichever is less. Also, the sum total of the floor area of the principal building and all accessory buildings shall not exceed 50% of the lot area.

- Requirement is met.
- Parking:
 - There are 350 existing parking stalls
 - Code requirements:
 - Office: 1 space per 250sf of space
 - 304 stalls required
 - Warehousing: 1 space per employee, plus one space per 5,000sf of gross floor area.
 - The application did not specify number of employees but there appears to be adequate parking provided.
- Lighting
 - Not provided.
- Landscaping
 - Not provided.
- Signage
 - The Plan Commission suggested that the applicant should provide proposed signage in the preliminary and final plans. These signs will need to be approved at a later date but this is showing what is likely to be proposed.

The Development Review Team is currently reviewing and feedback may be provided at the time of the meeting.

Preliminary Review

The purpose of preliminary project review shall be to determine that proposed structures are properly located and to review the project plans. The project plans, in the maximum scale of one inch equals 40 feet, for any multifamily residential, commercial, industrial, park, or institutional development shall include a plat of survey prepared by a registered land surveyor showing the location, boundaries, dimensions, elevations, existing and proposed grades to the Town of Brookfield datum; and uses and sizes of the following: subject site; existing and proposed structures; existing and proposed easements, streets, and other public ways; off-street parking, loading areas, driveways, ingress and egress plans; landscaping and open space utilization plans; existing highway access restrictions; and existing and proposed street, side, and rear yards. In addition, the plat of survey shall show the location, elevation, existing grades, and use of any abutting lands and their structures within 100 feet of the subject site. Preliminary approval recommended by the Architectural Review Committee and granted by the Plan Commission shall expire within six months unless final project plans are presented to the Plan Commission.

Final Review

The purpose of final project review shall be to determine that this chapter and other Town ordinances have been fully complied with, and to authorize the issuance of a building permit, subject to the developer receiving approval of the Wisconsin Department of Safety and Professional Services (SPS) of the building plans, if required, including architectural details and lighting plan. The Plan Commission may require appropriate sureties to guarantee the completion of grading, landscaping, and construction and paving of parking and loading areas within an approved time schedule. Final approval granted by the Town Board shall expire within 12 months unless necessary building permits have been applied for and issued.

June 4, 2024

Mr. Bryce Hembrook
Town of Brookfield
645 North Janacek Rd
Brookfield, WI 53045

Re: Master Spa Redevelopment Engineering Review Letter No. 4
Town of Brookfield, Wisconsin

Dear Bryce,

Lighting Design Solutions, Inc. reviewed the Architectural Control Committee (ACC) comments regarding the photometric plan and lighting submittals received on May 21, 2024. LDS has provided follow-up responses and comments regarding the lighting submittal. The comments for items 1 through 4 address a level of detail that is not a requirement in the Town ordinance.

1. ACC's Comment – The drawings do not contain a fixture schedule that defines precisely which fixture version is being submitted. It only lists fixture wattage variations and quantity required.
 - a. LDS Comment – LDS can add this to the fixture schedule, however keep in mind this is a requirement of the Town ordinance.
 - b. LDS Comment - Drawing has been updated to included this information in the schedule.
2. ACC's Comment – The drawings do show fixture locations (generally) without any mounting detail (i.e. height) and several sheets contain simple notes to refer to Architectural or Electrical plans (regarding the fixture.) Pg C1 item 10, C2 Item 14, C3 Item 12. Then the Luminaire schedule on the page from LDS incorporates the footcandle plot.
 - a. LDS Comment – Mounting details are not typically provided, unless they are pole mounted fixtures. Also, this is not a requirement of the Town ordinance.
3. ACC's Comment – On the fixture pages, there is a variety of lumen packages that could be cross-referenced but aren't. In fact, those pages include a place for the fixture type (as referenced on the drawings) to be listed – but they are not listed.
 - a. LDS Comment – The luminaire schedule on the photometric plan shows the luminaire watts for each wall pack. It does not state the exact lumen package ni the lighting submittal, but this is not a requirement in the Town ordinance.
 - b. LDS Comment – The luminaire schedule has been updated to include full catalog number in order to cross reference to spec sheet as requested.
4. ACC's Comment – Page 2 of the fixture pages does also note the I.E.S. Distribution Type that could be selected to arrive at the specific fixture details – but nothing is noted. This is important because, like on pages 4 & 5, the longer fixture designation refers us to the correct photometric illustrations; but, again, nothing has been defined for us.

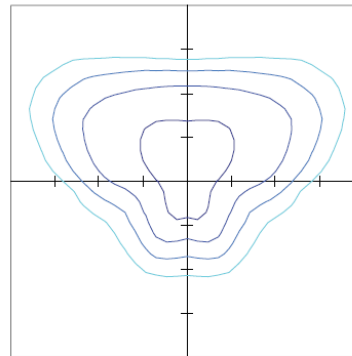
- a. LDS Comment – Specific distribution type is not a requirement of the Town Ordinance. The photometric plan was reviewed to be in accordance with the Town Ordinance (Section 17.02(6)(15).
- b. LDS Comment – Fixture schedule has been updated to include full catalog number which includes the distribution type within it.
- 5. ACC’s Comment – Frankly, I would reject these fixtures A, A2, and B. They are NOT DIRECT DOWNWARD as our code requires. The are “forward throw” optics and that’s what will GLARE to the passing traffic on I-94 and Doral Rd.
 - a. LDS Comment – Per the ratings of the fixture these fixtures appear to be in compliance with the Town Ordinance requirement for cutoff optics. The BUG rating on the fixture states U0 which means there is no uplight. The light level at the property line does not exceed 0.2 foot-candles which demonstrates compliance with the Town Ordinance.
 - b. LDS Comment – as shown below the uplight is shown at 0 lumens released from 90-180 degrees which again illustrates the full cutoff fixture.

XWM-3-LED-12L-40

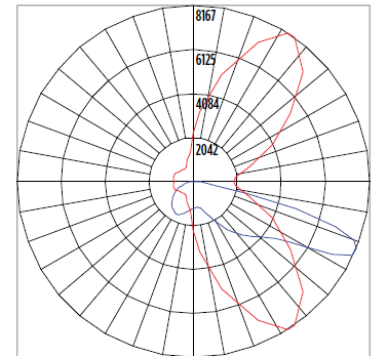
Luminaire Data	
Type 3 Distribution	
Description	4000 Kelvin, 70 CRI
Delivered Lumens	12,311
Watts	77
Efficacy	160
IES Type	Type III - Short
BUG Rating	B2-U0-G2

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%
Total Flux	12,311	100%

ISO Footcandle



Polar Curve

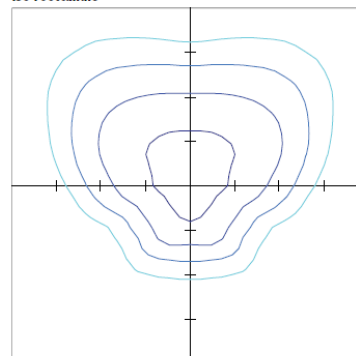


XWM-FT-LED-12L-40

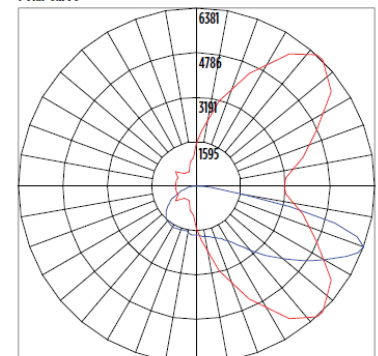
Luminaire Data	
Type FT Distribution	
Description	4000 Kelvin, 70 CRI
Delivered Lumens	12,274
Watts	77
Efficacy	159
IES Type	Type IV - Short
BUG Rating	B2-U0-G3

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%
Total Flux	12,274	100%

ISO Footcandle



Polar Curve





YOUR DESIGN-BUILD LIGHTING DISTRIBUTOR



Please call Ashley Thomer at 1.888.357.7070 x4 if you have any further questions.

Sincerely,

A handwritten signature in black ink that reads 'Ashley Thomer'.

Ashley Thomer, LC

Lighting Design Solutions, Inc.

Main Office PO Box 375, Schofield, WI 54476

p 888.357.7070 | f 715.693.2594 | www.LightingDesignSolutions.com



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

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

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 complies with FCC standards. 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 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 ¹	30 - 3000K 40 - 4000K 50 - 5000K AMB - Phosphor Converted Amber ²
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 Wireless Controls 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) ³ ALBCS2 - AirLink Blue Wireless Motion & Photo Sensor Controller (25-40' MH) ³ Standalone Controls DIM - 0-10v Dimming leads extended to housing exterior IMSBT1 - Integral Bluetooth™ Motion and Photocell Sensor (8-24' MH) ^{3,4} IMSBT2 - Integral Bluetooth™ Motion and Photocell Sensor (25-40' MH) ^{3,4} Button Type Photocells PCI120 - 120V PCI208-277 - 208 -277V PCI347 - 347V		Blank - None BB - Battery Back-up (0°C) ⁵ CWBB - Cold Weather Battery Backup (-20°C) ⁵ 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 INFORMATION⁶

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

MOUNTING ACCESSORY ORDERING INFORMATION⁶

Part Number ⁸	Description
809374CLR	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

[Back to Quick Links](#)

Delivered Lumens ¹												
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 ²						
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 ³					
Ambient Temperature C°	Initial ⁴	25K hrs. ⁴	50K hrs. ⁴	75K hrs. ⁵	100K hrs. ⁵
35	99%	97%	95%	93%	91%
50	100%	98%	95%	93%	90%

1 LEDs are frequently updated therefore values are nominal

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

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

4 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.

5 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

[Back to Quick Links](#)

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

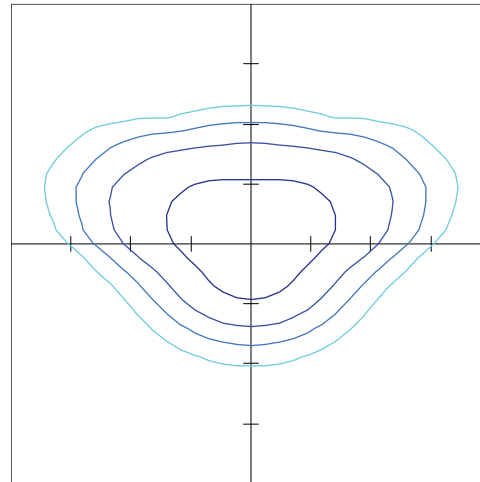
See the individual product page on <https://www.lsicorp.com/> for detailed photometric data.

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

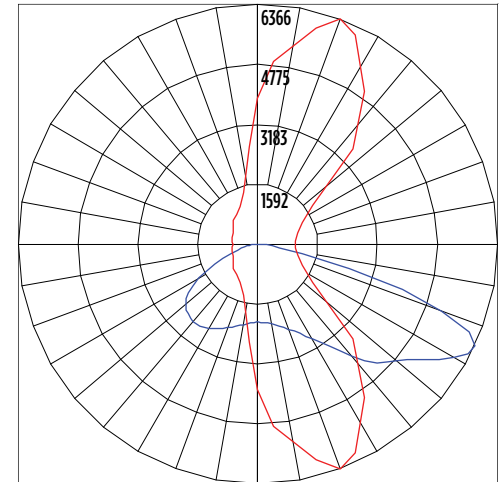
Zonal Lumen Summary		
Zone	Lumens	% Luminaire
Low (0-30°)	1,961	16%
Medium (30-60°)	6,874	57%
High (60-80°)	3,014	25%
Very High (80-90°)	184	2%
Uplight (90-180°)	0	0%
Total Flux	12,033	100%

ISO Footcandle



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

Polar Curve



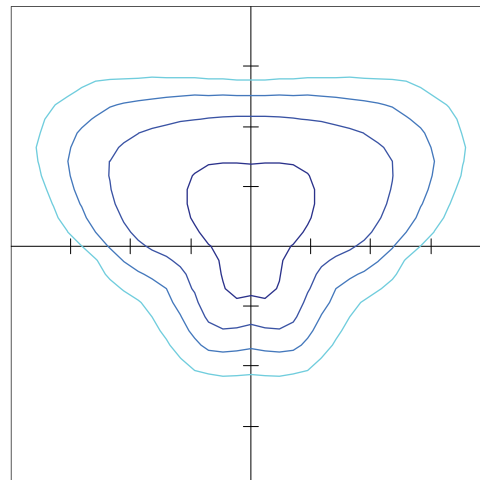
Vertical Plane Horizontal Cone

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

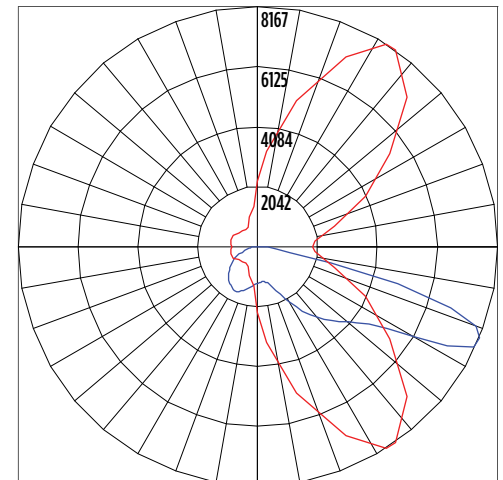
Zonal Lumen Summary		
Zone	Lumens	% Luminaire
Low (0-30°)	1,340	11%
Medium (30-60°)	6,164	50%
High (60-80°)	4,549	37%
Very High (80-90°)	258	2%
Uplight (90-180°)	0	0%
Total Flux	12,311	100%

ISO Footcandle



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

Polar Curve



Vertical Plane Horizontal Cone

Mirada Medium Wall Sconce (XWM) Outdoor Wall Sconce

Type : _____

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

PHOTOMETRICS

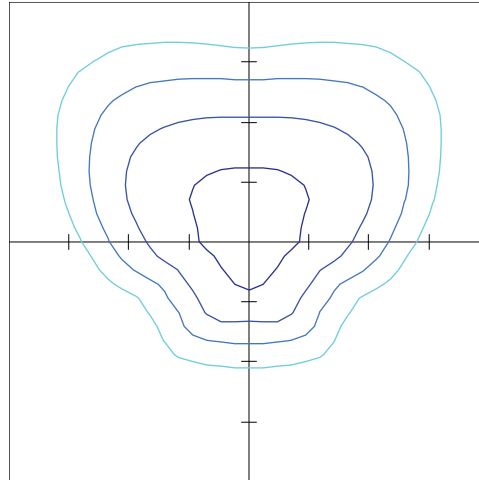
[Back to Quick Links](#)

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

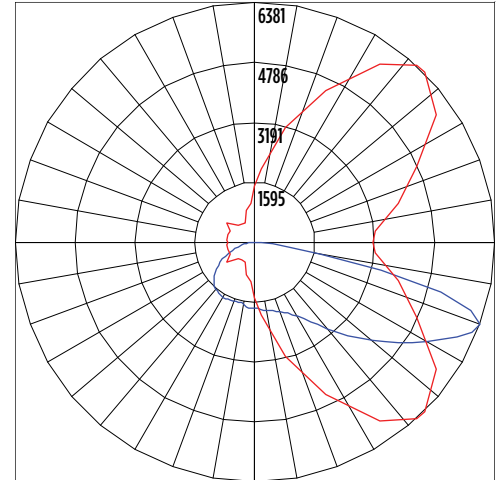
Zonal Lumen Summary		
Zone	Lumens	% Luminaire
Low (0-30°)	1,578	13%
Medium (30-60°)	5,798	47%
High (60-80°)	4,576	37%
Very High (80-90°)	322	3%
Uplight (90-180°)	0	0%
Total Flux	12,274	100%

ISO Footcandle



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

Polar Curve



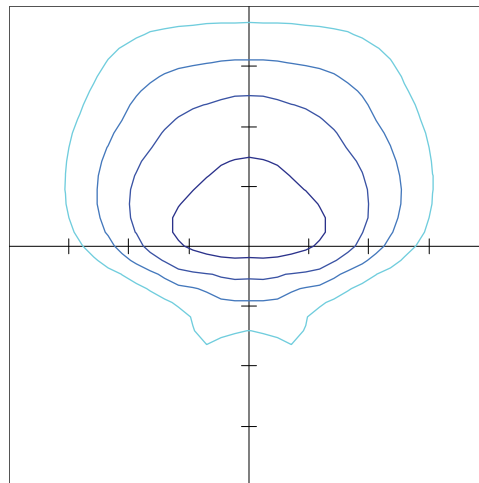
Vertical Plane Horizontal Cone

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

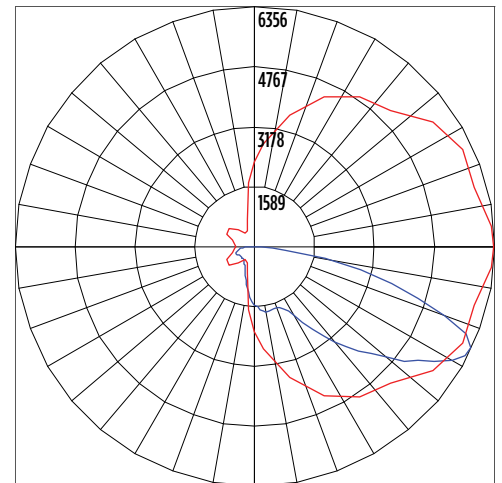
Zonal Lumen Summary		
Zone	Lumens	% Luminaire
Low (0-30°)	1,345	11%
Medium (30-60°)	5,394	45%
High (60-80°)	4,855	40%
Very High (80-90°)	464	4%
Uplight (90-180°)	0	0%
Total Flux	12,058	100%

ISO Footcandle



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

Polar Curve



Vertical Plane Horizontal Cone

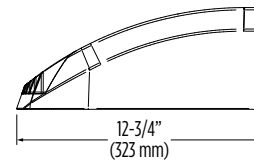
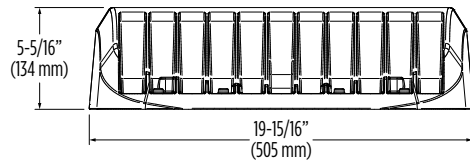
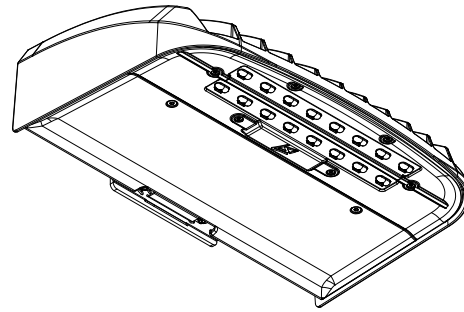
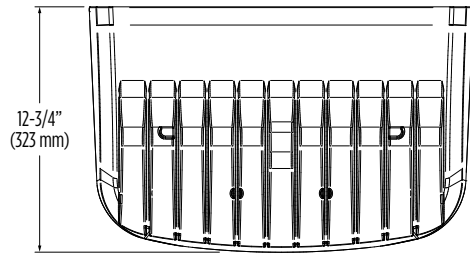
Mirada Medium Wall Sconce (XWM) Outdoor Wall Sconce

Type : _____

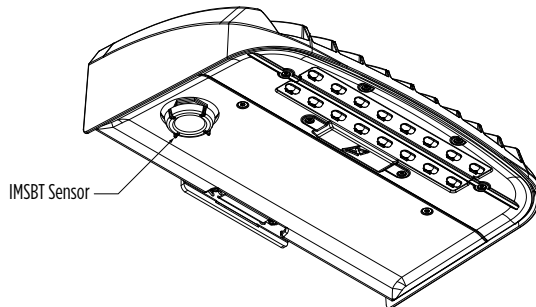
 **Have questions?** Call us at (800) 436-7800

PRODUCT DIMENSIONS

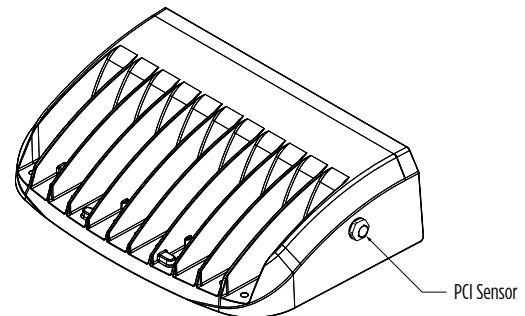
[Back to Quick Links](#)



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

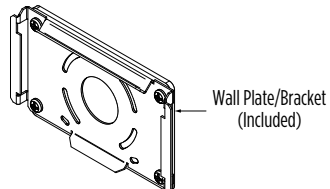
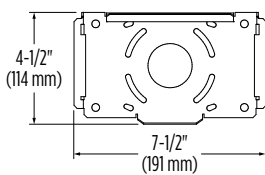


**Mirada Medium Wall Sconce with
Button Type Photocell**
(XWM PCI)

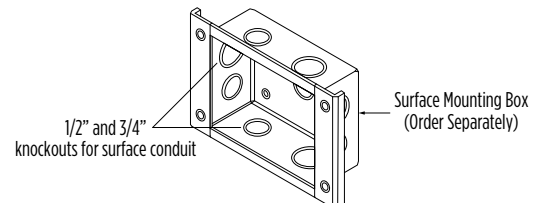


Mounting Options

Mounting Over Junction Box
(Standard/Included)



XWM Wet Location Surface Conduit/Wiring Box
(809374CLR)



CONTROLS

[Back to Quick Links](#)

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.



Catalog #: _____

Project: _____

Prepared By: _____

Date: _____

Mirada Small Area (MRS)

Outdoor LED Area Light



OVERVIEW	
Lumen Package	6,000 - 30,000
Wattage Range	39 - 209
Efficacy Range (LPW)	112 - 163
Weight lbs(kg)	20 (9.1)
Control Options	IMSBT, ALB, ALS, 7-Pin, PCI

QUICK LINKS

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

FEATURES & SPECIFICATIONS

Construction

- Rugged die-cast aluminum housing contains factory prewired driver and optical unit. Cast aluminum wiring access door located underneath.
- Fixtures are finished with LSI's DuraGrip® polyester powder coat finishing process. The DuraGrip finish withstands extreme weather changes without cracking or peeling. Other standard LSI finishes available. Consult factory.
- Shipping weight: 27 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 seal.
- Proprietary silicone refractor optics provide exceptional coverage and uniformity in distribution types 2, 3, 4, 5W, FT, and LC/RC.
- Silicone optical material does not yellow or crack with age and provides a typical light transmittance of 93-95%.
- Zero uplight.
- Available in 5000K, 4000K, and 3000K color temperatures per ANSI C78.377
- Minimum CRI of 70.
- Integral louver (IL) and integral half louver (IH) options available for enhanced backlight control.

Electrical

- High-performance driver features over-voltage, under-voltage, short-circuit and over temperature protection.

- 0-10V dimming (10% - 100%) standard.
- Standard Universal Voltage (120-277 VAC) Input 50/60 Hz or optional High Voltage (347-480 VAC).
- L70 Calculated Life: >60k Hours
- Total harmonic distortion: <20%
- Operating temperature: -40°C to +50°C (-40°F to +122°F). 30L 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
- Driver is fully encased in potting material for moisture resistance and complies with FCC standards. Driver and key electronic components can easily be accessed.

Controls

- Optional integral passive infrared Bluetooth™ motion and photocell sensor. Fixtures operate independently and can be commissioned via iOS or Android configuration app.
- LSI's AirLink™ wireless control system options reduce energy and maintenance costs while optimizing light quality 24/7.

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 B3 drill pattern.

Warranty

- LSI luminaires carry a 5-year limited warranty. Refer to <https://www.lsicorp.com/resources/terms-conditions-warranty/> for more information.

Listings

- Listed to UL 1598 and UL 8750.
- Meets Buy American Act requirements.
- IDA compliant; with 3000K color temperature selection.
- Title 24 Compliant; see local ordinance for qualification information.
- RoHS compliant
- Suitable for wet locations.
- IP66 rated Luminaire per IEC 60598-1.
- 3G rated for ANSI C136.31 high vibration applications are qualified.
- IK08 rated luminaire per IEC 66262 mechanical impact code
- DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

Mirada Small Area Light (MRS)

Type: _____

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

ORDERING GUIDE

[Back to Quick Links](#)

TYPICAL ORDER EXAMPLE: MRS LED 18L SIL FT UNV DIM 40 70CRI ALBCS1 BLK IH

Prefix	Light Source	Lumen Package	Lens	Distribution	Orientation ²	Voltage	Driver
MRS - Mirada Small Area Light	LED	6L - 6,000 lms, 39W 9L - 9,000 lms, 63W 12L - 12,000 lms, 86W 15L - 15,000 lms, 111W 18L - 18,000 lms, 135W 21L - 21,000 lms, 165W 24L - 24,000 lms, 196W 30L - 30,000 lms, 209W ⁶ Custom Lumen Packages ¹	SIL - Silicone	2 - Type 2 3 - Type 3 4 - Type 4 5W - Type 5 Wide FT - Forward Throw LC - Left Corner RC - Right Corner	(blank) - standard L - Optics rotated left 90° R - Optics rotated right 90°	UNV - Universal Voltage (120-277V) HV - High Voltage (347-480V)	DIM - 0-10V Dimming (0-10%)

Color Temp	Color Rendering	Controls (Choose One)	Finish	Options
50 - 5,000 CCT 40 - 4,000 CCT 30 - 3,000 CCT	70CRI - 70 CRI	(Blank) - None Wireless Controls System ALSC - AirLink Synapse Control System ALSCS2 - AirLink Synapse Control System with 12-20' MH Motion Sensor ALSCS4 - AirLink Synapse Control System with 20-40' MH Motion Sensor ALBCS1 - AirLink Blue Wireless Motion & Photo Sensor Controller (8-24' MH) ⁴ ALBCS2 - AirLink Blue Wireless Motion & Photo Sensor Controller (25-40' MH) ⁴ Stand-Alone Controls EXT - 0-10v Dimming leads extended to housing exterior CR7P - 7 Pin Control Receptacle ANSI C136.41 ³ IMSBT1 - Integral Bluetooth™ Motion and Photocell Sensor (8-24' MH) ⁴ IMSBT2 - Integral Bluetooth™ Motion and Photocell Sensor (25-40' MH) ⁴	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 Half Louver (Moderate Spill Light Cutoff) ² IL - Integral Louver (Sharp Spill Light Cutoff) ²



Need more information?

[Click here for our glossary](#)

Have additional questions?

Call us at (800) 436-7800



Accessory Ordering Information⁵

CONTROLS ACCESSORIES	
Description	Order Number
Twist Lock Photocell (120V) for use with CR7P	122514
Twist Lock Photocell (208-277) for use with CR7P	122515
Twist Lock Photocell (347V) for use with CR7P	122516
Twist Lock Photocell (480V) for use with CR7P	1225180
AirLink 5 Pin Twist Lock Controller	661409
AirLink 7 Pin Twist Lock Controller	661410
Shorting Cap for use with CR7P	149328

FUSING OPTIONS ⁷	
Description	Order Number
Single Fusing (120V)	See Fusing Accessory Guide
Single Fusing (277V)	
Double Fusing (208V, 240V)	
Double Fusing (480V)	
Double Fusing (347V)	

SHIELDING OPTIONS	
Description	Order Number
Mirada Small	See Shielding Guide
Mirada Medium	
Mirada Large	
Zone Medium	
Zone Large	
Slice Medium	

- Custom lumen and wattage packages available, consult factory. Values are within industry standard tolerances but not DLC listed.
- Not available on "Type 5W" distribution.
- Control device or shorting cap must be ordered separately. See Accessory Ordering Information.
- Motion sensors are field configurable via the LSI app that can be downloaded from your smartphone's native app store.
- Accessories are shipped separately and field installed.
- "CLR" denotes finish. See Finish options.
- Fusing must be located in hand hole of pole. See [Fusing Accessory Guide](#) for compatibility.
- ALSC, ALB, and IMSBT not available with 30L HV.

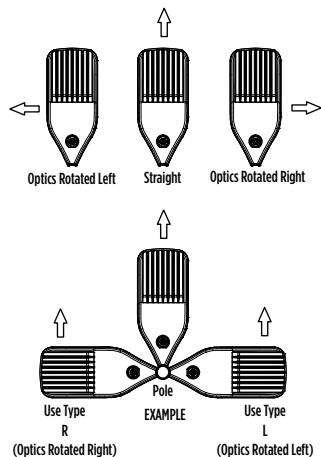
ACCESSORIES

[Back to Quick Links](#)

MOUNTING ACCESSORIES		SHIELDING, POLES & MISC. ACCESSORIES		
Side Arm	Universal Mounting Bracket Mounts to ≥ 3" square or round (tapered/straight) poles with (2) mounting hole spaces between 3.5" to 5" Part Number: BKA UMB CLR		Shielding Integral Louver Field Install Integral Louver provides maximum backlight control by shielding each individual row of LEDs Part Number: 763445 Integral Half Louver Field Install Integral Half Louver provides great backlight control without impacting front side distribution. Part Number: 763446 External Shield External shield blocks view of light source from any side of luminaire, additional shielding configurations available Part Number: 783607BLK (3") / 776538BLK (6")	
	Quick Mount Plate True one person installation to existing/new construction poles with hole spaces between 2.4 to 4.6" Part Number: BKS PQM B3B5 XX CLR			
	15° Tilt Quick Mount Plate True one person installation to existing/new construction poles with hole spaces between 2.4 to 4.6" Part Number: BKS PQ15 B3B5 XX CLR			
Tenon / Slipfitter	Adjustable Slipfitter Mounts onto a 2" (51mm) IP, 2.375" (60mm) O.D. tenon and provides 180° of tilt (max 45° above horizontal) Part Number: BKA ASF CLR		Poles Square Poles 14 - 39' steel and aluminum poles in 4", 5" and 6" sizes for retrofit and new construction Part Number: 4SQ/5SQ/6SQ Round Poles 10 - 30' steel and aluminum poles in 4" and 5" sizes for retrofit and new construction Part Number: 4RP/SRP Tapered Poles 20' - 39' steel and aluminum poles for retrofit and new construction Part Number: RTP	
	Square Tenon Top Mounts onto a 2" (51mm) IP, 2.375" (60mm) O.D. tenon and allows for mounting up to 4 luminaires Part Number: BKA XNM *			
	Square Internal Slipfitter Mounts inside 4" or 5" square pole and allows for mounting up to 4 luminaires Part Number: BKA X_ISF * CLR			
Wall Mount/ Wood Pole	Wall Mount Bracket Mounts onto vertical wall surface (hardware/anchors not included) Part Number: BKS XBO WM CLR		Misc. Bird Spikes 10' linear bird spike (X' recommended per luminaire), silicone adhesive (covers approximately 25' linear feet of bird spike) and application tool. Spike Part Number: 751631 Adhesive Part Number: 751632 Caulk Gun Part Number: 751636	
	Wood Pole Bracket Mounts onto wooden poles (6" minimum OD, hardware/anchors not included) Part Number: BKS XBO WP CLR			Replace CLR with paint finish description Replace X with: Z Replace XX with SQ for square pole or RD for round pole (≥3" OD) Replace * with S (Single), D180 (Double @180°), D90 (Double @90°), T90 (Triple), Q90 (Quad) Replace _ with 4 (4" square pole) or 5 (5" square pole)

OPTICS ROTATION

Top View



ACCESSORIES/OPTIONS

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

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

Luminaire Shown with Integral Louver (IL)



Luminaire Shown with IMSBT Option



7 Pin Photoelectric Control

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



Mirada Small Area Light (MRS)

Type: _____

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

PERFORMANCE

[Back to Quick Links](#)

DELIVERED LUMENS*												
Lumen Package	Distribution	CRI	3000K CCT			4000K CCT			5000K CCT			Wattage
			Delivered Lumens	Efficacy	BUG Rating	Delivered Lumens	Efficacy	BUG Rating	Delivered Lumens	Efficacy	BUG Rating	
6L	2	70	5918	149	B2-U0-G1	6136	155	B2-U0-G1	6122	155	B2-U0-G1	39
	3		6016	152	B1-U0-G2	6238	158	B1-U0-G2	6224	157	B1-U0-G2	
	4		5967	153	B1-U0-G2	6333	162	B1-U0-G3	6136	157	B1-U0-G2	
	5W		5690	144	B3-U0-G1	5899	149	B3-U0-G1	5886	1479	B3-U0-G1	
	FT		5822	147	B1-U0-G1	6037	152	B1-U0-G1	6023	152	B1-U0-G1	
	LC		6003	154	B1-U0-G2	6371	163	B1-U0-G2	6173	158	B1-U0-G2	
	RC		5964	153	B1-U0-G2	6329	162	B1-U0-G2	6132	157	B1-U0-G2	
9L	2	70	9091	145	B2-U0-G2	9484	152	B2-U0-G2	9462	151	B2-U0-G2	63
	3		9241	148	B2-U0-G2	9641	154	B2-U0-G2	9619	154	B2-U0-G2	
	4		9214	146	B2-U0-G3	9778	155	B2-U0-G3	9474	150	B2-U0-G3	
	5W		8740	140	B3-U0-G2	9118	146	B3-U0-G2	9097	144	B3-U0-G2	
	FT		8943	143	B2-U0-G2	9330	149	B2-U0-G2	9308	149	B2-U0-G2	
	LC		9269	147	B2-U0-G3	9837	156	B2-U0-G3	9531	151	B2-U0-G3	
	RC		9208	146	B2-U0-G2	9772	155	B2-U0-G3	9468	150	B2-U0-G3	
12L	2	70	12132	141	B3-U0-G2	12685	148	B3-U0-G2	12514	146	B3-U0-G2	86
	3		12333	143	B2-U0-G2	12894	150	B2-U0-G2	12721	148	B2-U0-G2	
	4		12277	143	B2-U0-G3	13029	152	B2-U0-G3	12623	147	B2-U0-G3	
	5W		11664	136	B4-U0-G2	12195	142	B4-U0-G2	12031	140	B4-U0-G2	
	FT		11935	139	B2-U0-G2	12479	145	B2-U0-G2	12311	143	B2-U0-G2	
	LC		12351	144	B2-U0-G3	13108	152	B2-U0-G3	12700	148	B2-U0-G3	
	RC		12271	143	B2-U0-G3	13022	151	B2-U0-G3	12617	147	B2-U0-G3	
15L	2	70	14220	128	B3-U0-G2	15167	137	B3-U0-G2	14488	131	B3-U0-G2	111
	3		14938	135	B2-U0-G2	15933	144	B2-U0-G2	15219	137	B2-U0-G2	
	4		14792	133	B2-U0-G4	15698	141	B2-U0-G4	15209	137	B2-U0-G4	
	5W		14304	129	B4-U0-G2	15257	137	B4-U0-G2	14574	131	B4-U0-G2	
	FT		14342	129	B2-U0-G2	15297	138	B2-U0-G2	14612	132	B2-U0-G2	
	LC		14881	134	B2-U0-G3	15793	142	B2-U0-G3	15301	138	B2-U0-G3	
	RC		14784	133	B2-U0-G3	15689	141	B2-U0-G3	15201	137	B2-U0-G3	
18L	2	70	16438	122	B3-U0-G2	17532	130	B3-U0-G3	16747	124	B3-U0-G2	135
	3		17267	128	B3-U0-G3	18417	137	B3-U0-G3	17592	131	B3-U0-G3	
	4		17101	127	B3-U-G4	18149	134	B3-U-G4	17584	130	B3-U-G4	
	5W		16535	123	B4-U0-G2	17636	133	B5-U0-G2	16846	125	B4-U0-G2	
	FT		16578	123	B3-U0-G2	17682	131	B3-U0-G2	16890	125	B3-U0-G2	
	LC		17204	127	B3-U0-G3	18258	135	B3-U0-G3	17689	131	B3-U0-G3	
	RC		17091	127	B2-U0-G3	18138	134	B2-U0-G3	17574	130	B2-U0-G3	
21L	2	70	19488	118	B3-U0-G3	20786	126	B3-U0-G3	19885	120	B3-U0-G3	165
	3		20472	124	B3-U0-G3	21835	132	B3-U0-G3	20857	126	B3-U0-G3	
	4		20279	123	B3-U0-G4	21521	130	B3-U0-G5	20851	126	B3-U0-G5	
	5W		19604	119	B5-U0-G3	20909	126	B5-U0-G3	19973	121	B5-U0-G3	
	FT		19655	119	B3-U0-G3	20964	127	B3-U0-G3	20025	121	B3-U0-G3	
	LC		20401	124	B3-U0-G4	21651	131	B3-U0-G4	20977	127	B3-U0-G4	
	RC		20268	123	B3-U0-G3	21509	130	B3-U0-G4	20840	126	B3-U0-G3	

*LEDs are frequently updated therefore values are nominal.

Mirada Small Area Light (MRS)

Type: _____

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

PERFORMANCE

[Back to Quick Links](#)

DELIVERED LUMENS*												
Lumen Package	Distribution	CRI	3000K CCT			4000K CCT			5000K CCT			Wattage
			Delivered Lumens	Efficacy	BUG Rating	Delivered Lumens	Efficacy	BUG Rating	Delivered Lumens	Efficacy	BUG Rating	
24L	2	70	21976	112	B3-U0-G3	23439	120	B3-U0-G3	22390	114	B3-U0-G3	196
	3		23085	118	B3-U0-G3	24622	126	B3-U0-G3	23519	120	B3-U0-G3	
	4		23190	117	B3-U0-G5	24758	124	B3-U0-G5	23888	120	B3-U0-G5	
	5W		22105	113	B5-U0-G3	23578	120	B5-U0-G3	22522	115	B5-U0-G3	
	FT		22164	113	B3-U0-G3	23640	121	B3-U0-G3	22581	115	B3-U0-G3	
	LC		23330	117	B3-U0-G4	24907	125	B3-U0-G4	24032	121	B3-U0-G4	
	RC		23117	117	B3-U0-G4	24744	124	B3-U0-G4	23874	120	B3-U0-G4	
30L	2	70	30078	144	B4-U0-G3	29485	143	B4-U0-G4	30697	147	B4-U0-G3	209
	3		31711	154	B3-U0-G3	31086	151	B3-U0-G3	32364	157	B3-U0-G3	
	4		30459	148	B4-U0-G5	29858	145	B4-U0-G5	31085	151	B4-U0-G5	
	5W		30588	149	B5-U0-G3	29985	146	B5-U0-G3	31218	152	B5-U0-G3	
	FT		31585	153	B3-U0-G4	30962	150	B3-U0-G4	32235	156	B4-U0-G4	
	LC		32303	155	B3-U0-G5	31666	152	B3-U0-G5	32968	158	B3-U0-G5	
	RC		31943	153	B3-U0-G4	31313	150	B3-U0-G4	32600	156	B3-U0-G5	

*LEDs are frequently updated therefore values are nominal.

ELECTRICAL DATA (AMPS)*						
Lumens	120V	208V	240V	277V	347V	480V
6L	0.34	0.20	0.17	0.15	0.12	0.09
9L	0.52	0.30	0.26	0.23	0.18	0.13
12L	0.72	0.41	0.36	0.31	0.25	0.18
15L	0.93	0.53	0.46	0.40	0.32	0.23
18L	1.12	0.65	0.56	0.49	0.39	0.28
21L	1.38	0.80	0.69	0.60	0.48	0.34
24L	1.63	0.94	0.82	0.71	0.56	0.41
30L	1.74	1.00	0.87	0.75	0.60	0.43

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

RECOMMENDED LUMEN MAINTENANCE ¹					
Ambient Temp	Lumen Multiplier				
	0 hrs. ²	25K hrs. ²	50K hrs. ²	75K hrs. ³	100K hrs. ³
0 C - 25 C	100%	95%	89%	84%	79%
40 C	100%	94%	87%	80%	74%

- Lumen maintenance values at 25°C are calculated per TM-21 based on LM-80 data and in-situ luminaire testing.
- 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).
- 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 Small Area Light (MRS)

Type: _____

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

PHOTOMETRICS

[Back to Quick Links](#)

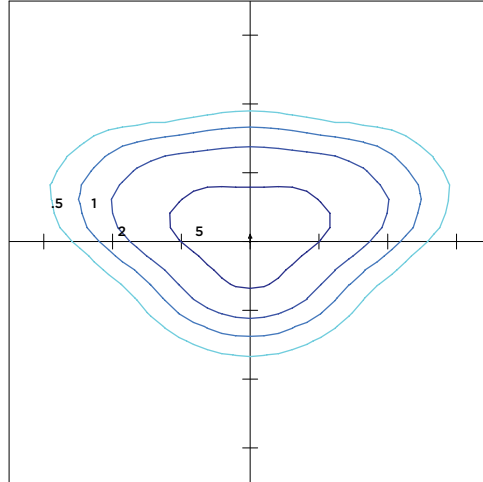
Luminaire photometry has been conducted by an accredited laboratory in accordance with IESNA LM-79. As specified by IESNA LM-79 the entire luminaire is tested as the source resulting in a luminaire efficiency of 100%.

MRS-LED-18L-SIL-2-40-70CRI

Luminaire Data	
Type 2 Distribution	
Description	4000 Kelvin, 70 CRI
Delivered Lumens	17,532
Watts	135
Efficacy	130
IES Type	Type II - Short
BUG Rating	B3-U0-G3

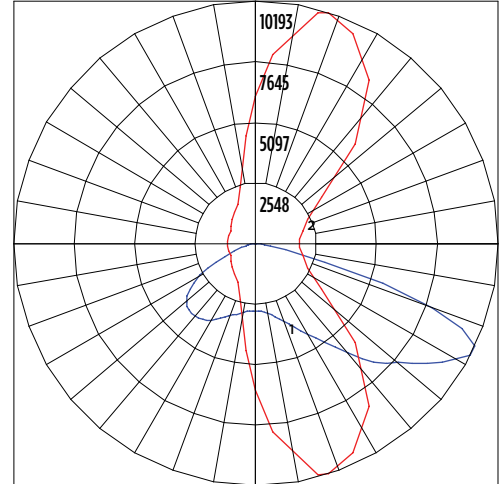
Zonal Lumen Summary		
Zone	Lumens	% Luminaire
Low (0-30)°	2831	16%
Medium (30-60)°	10310	59%
High (60-80)°	4208	24%
Very High (80-90)°	184	1%
Uplight (90-180)°	0	0%
Total Flux	17532	100%

ISO Footcandle



20' Mounting Height / 20' Grid Spacing
 ■ 5 FC ■ 2 FC ■ 1 FC ■ 0.5 FC

Polar Curve



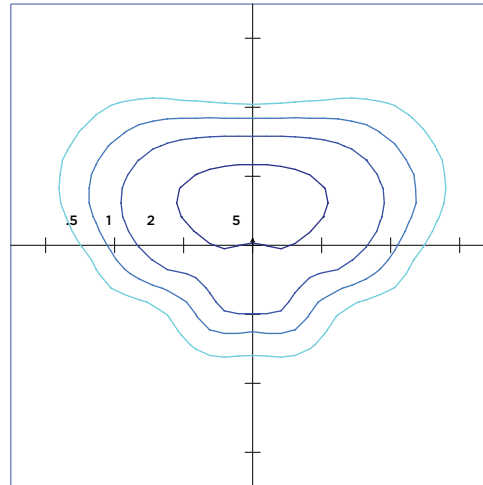
■ Vertical Plane ■ Horizontal Cone

MRS-LED-18L-SIL-3-40-70CRI

Luminaire Data	
Type 3 Distribution	
Description	4000 Kelvin, 70 CRI
Delivered Lumens	18,417
Watts	135
Efficacy	137
IES Type	Type III - Short
BUG Rating	B3-U0-G3

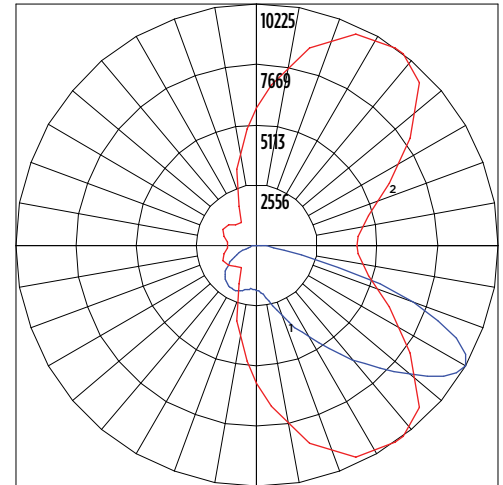
Zonal Lumen Summary		
Zone	Lumens	% Luminaire
Low (0-30)°	2329	13%
Medium (30-60)°	10634	61%
High (60-80)°	5246	30%
Very High (80-90)°	208	1%
Uplight (90-180)°	0	0%
Total Flux	18417	100%

ISO Footcandle



20' Mounting Height / 20' Grid Spacing
 ■ 5 FC ■ 2 FC ■ 1 FC ■ 0.5 FC

Polar Curve



■ Vertical Plane ■ Horizontal Cone

Mirada Small Area Light (MRS)

Type: _____

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

PHOTOMETRICS (CONT)

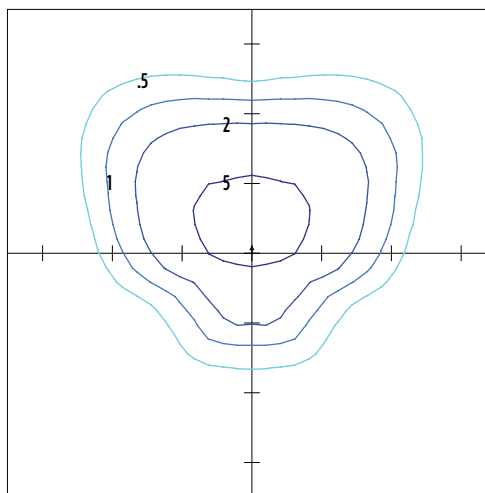
[Back to Quick Links](#)

MRS-LED-18L-SIL-FT-40-70CRI

Luminaire Data	
Type FT Distribution	
Description	4000 Kelvin, 70 CRI
Delivered Lumens	17,682
Watts	135
Efficacy	131
IES Type	Type III - Short
BUG Rating	B3-U0-G2

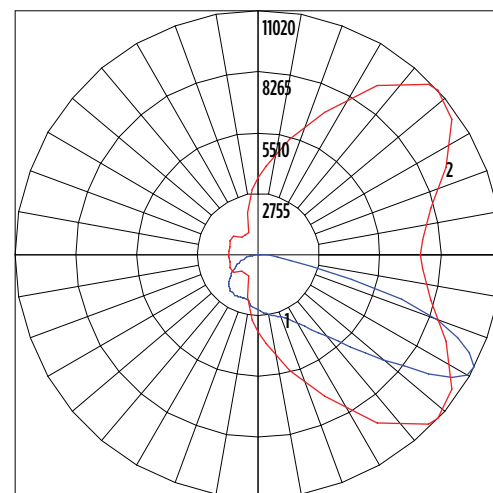
Zonal Lumen Summary		
Zone	Lumens	% Luminaire
Low (0-30)°	2255	13%
Medium (30-60)°	9463	54%
High (60-80)°	5696	32%
Very High (80-90)°	268	2%
Uplight (90-180)°	0	0%
Total Flux	17682	100%

ISO Footcandle



20' Mounting Height / 20' Grid Spacing
 ■ 5 FC ■ 2 FC ■ 1 FC ■ 0.5 FC

Polar Curve



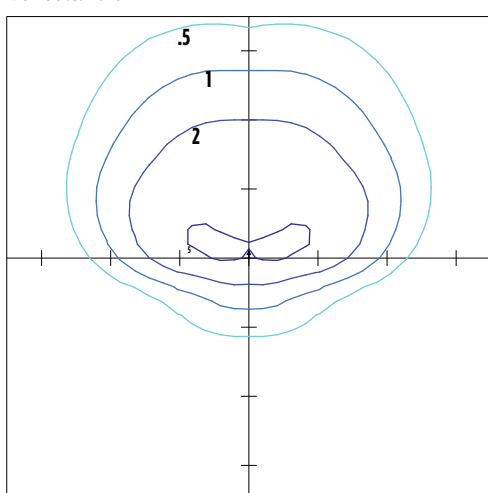
■ Vertical Plane ■ Horizontal Cone

MRS-LED-18L-SIL-4-40-70CRI

Luminaire Data	
Type 4 Distribution	
Description	4000 Kelvin, 70 CRI
Delivered Lumens	18,149
Watts	135
Efficacy	134
IES Type	Type IV - Very Short
BUG Rating	B3-U0-G4

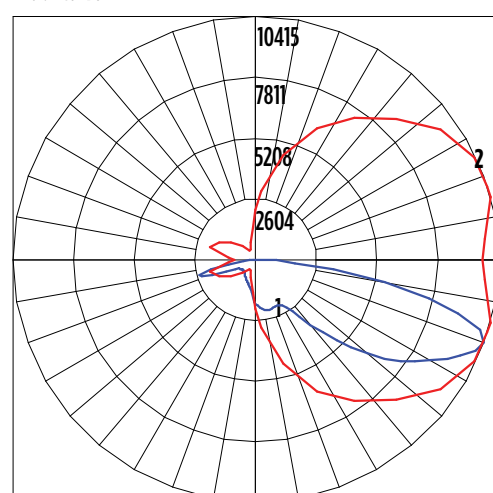
Zonal Lumen Summary		
Zone	Lumens	% Luminaire
Low (0-30)°	1671	9%
Medium (30-60)°	7615	42%
High (60-80)°	8074	44%
Very High (80-90)°	790	4%
Uplight (90-180)°	0	0%
Total Flux	18149	100%

ISO Footcandle



20' Mounting Height / 20' Grid Spacing
 ■ 5 FC ■ 2 FC ■ 1 FC ■ 0.5 FC

Polar Curve



■ Vertical Plane ■ Horizontal Cone

Mirada Small Area Light (MRS)

Type: _____

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

PHOTOMETRICS (CONT)

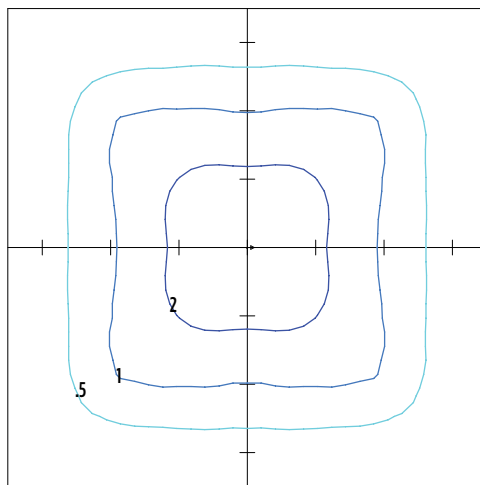
[Back to Quick Links](#)

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

Luminaire Data	
Type 5W Distribution	
Description	4000 Kelvin, 70 CRI
Delivered Lumens	17,636
Watts	135
Efficacy	131
IES Type	Type VS - Short
BUG Rating	B4-U0-G2

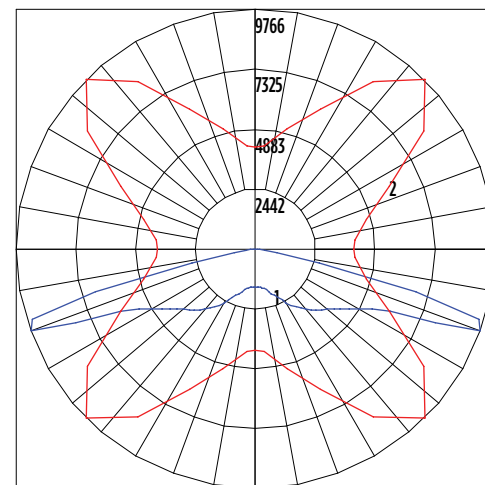
Zonal Lumen Summary		
Zone	Lumens	% Luminaire
Low (0-30)°	1646	9%
Medium (30-60)°	7453	43%
High (60-80)°	8405	48%
Very High (80-90)°	132	1%
Uplight (90-180)°	0	0%
Total Flux	17636	100%

ISO Footcandle



20' Mounting Height / 20' Grid Spacing
 ■ 5 FC ■ 2 FC ■ 1 FC ■ 0.5 FC

Polar Curve



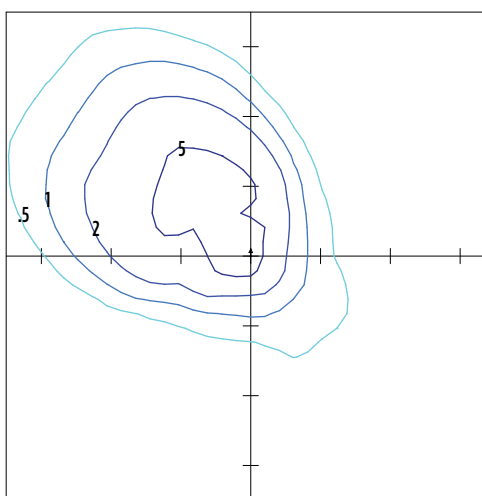
■ Vertical Plane ■ Horizontal Cone

MRS-LED-18L-SIL-LC-40-70CRI

Luminaire Data	
Left Corner Distribution	
Description	4000 Kelvin, 70 CRI
Delivered Lumens	18,258
Watts	135
Efficacy	135
IES Type	N/A
BUG Rating	B3-U0-G3

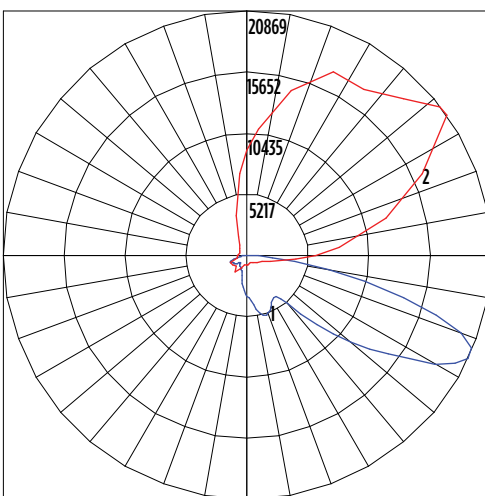
Zonal Lumen Summary		
Zone	Lumens	% Luminaire
Low (0-30)°	2412	13%
Medium (30-60)°	7504	41%
High (60-80)°	7698	42%
Very High (80-90)°	644	4%
Uplight (90-180)°	0	0%
Total Flux	18258	100%

ISO Footcandle



20' Mounting Height / 20' Grid Spacing
 ■ 5 FC ■ 2 FC ■ 1 FC ■ 0.5 FC

Polar Curve



■ Vertical Plane ■ Horizontal Cone

Mirada Small Area Light (MRS)

Type: _____

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

PHOTOMETRICS (CONT)

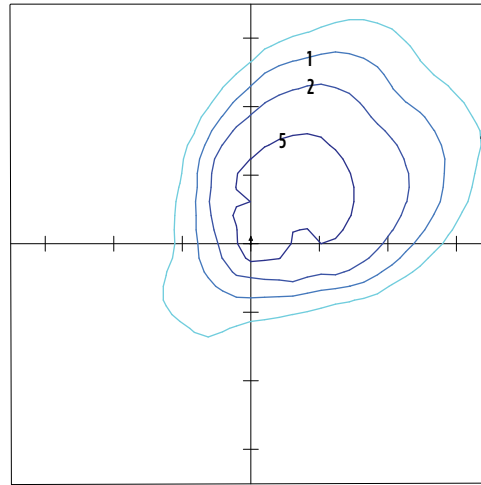
[Back to Quick Links](#)

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

Luminaire Data	
Right Corner Distribution	
Description	4000 Kelvin, 70 CRI
Delivered Lumens	18,138
Watts	135
Efficacy	134
IES Type	N/A
BUG Rating	B3-U0-G3

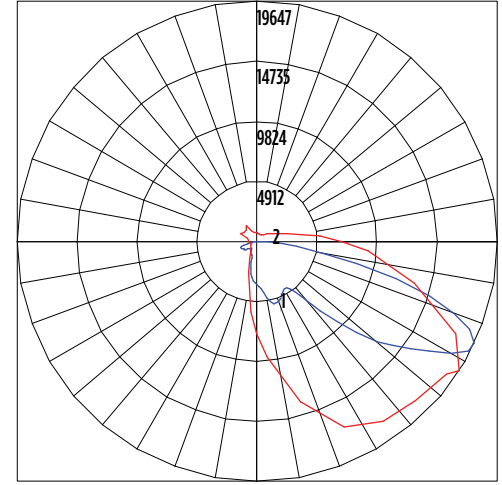
Zonal Lumen Summary		
Zone	Lumens	% Luminaire
Low (0-30)°	2317	13%
Medium (30-60)°	8066	44%
High (60-80)°	7214	40%
Very High (80-90)°	541	3%
Uplight (90-180)°	0	0%
Total Flux	18138	100%

ISO Footcandle



20' Mounting Height / 20' Grid Spacing
 5 FC 2 FC 1 FC 0.5 FC

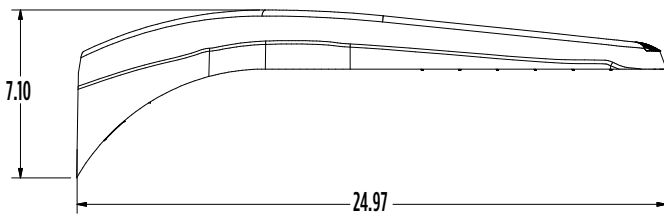
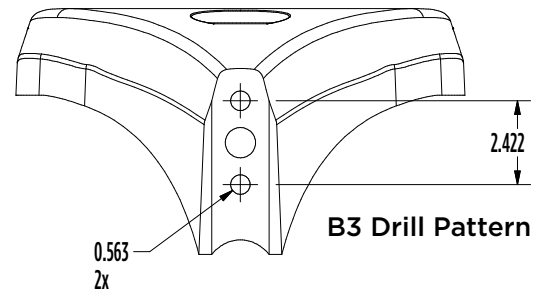
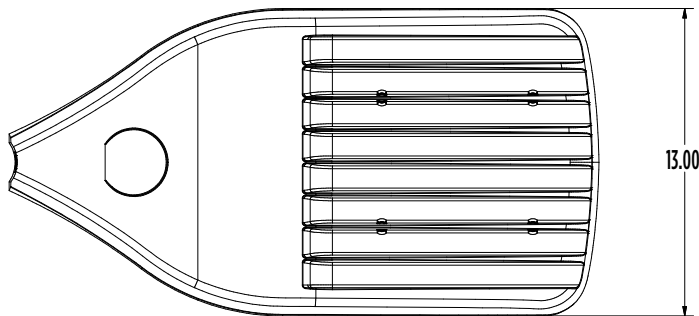
Polar Curve



Vertical Plane Horizontal Cone

PRODUCT DIMENSIONS

[Back to Quick Links](#)



Luminaire EPA Chart					
Tilt Degree		0°	15°	30°	45°
	Single	0.5	0.8	1.3	1.8
	D180°	0.9	1.1	1.3	1.8
	D90°	0.9	1.3	1.8	2.2
	T90°	1.4	1.9	2.3	2.6
	TN120°	1.4	2.1	1.9	2.3
	Q90°	1.4	1.9	2.3	2.6

CONTROLS

[Back to Quick Links](#)

Integral Bluetooth™ Motion and Photocell Sensor (IMSBTxL)

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

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



LEVITON App



Apple



Android

AirLink Blue (ALBCSx)

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

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



AirLink Blue App



Apple

Sensor Sequence of Operations

Standard Programming	On Event	Off Event	On Light Level	Dim Light Level	Daylight Harvesting	Delay To Off	Sensitivity
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.