Catalog # : _____ Project : _____ Type : _____

Prepared By : _____ Date : _____

Mirada Medium (MRM)

Turtle Friendly LED Area Light

IP66 IK08



OVERVIEW	
Lumen Package	2,000 - 4,000
Wattage Range	36 - 94
Efficacy Range (LPW)	42 - 72
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® 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.
- Narrow Band amber LEDs.
- Integral louver (IL) and integral half louver (IH) options available for enhanced backlight control.

Electrical

- High-performance programmable driver features over-voltage, under-voltage, short-circuit and over temperature protection. Custom lumen and wattage packages available.
- 0-10V dimming (10% - 100%) standard.
- Standard Universal Voltage (120-277 Vac) Input 50/60 Hz or optional High Voltage (347-480 Vac).
- Total harmonic distortion: <20%
- Operating temperature: -40°C to +40°C (-40° F to +104° F).
- 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).
- LEDs mounted to metal-core circuit board to maximize heat dissipation
- Components are fully encased in potting material for moisture resistance. Driver complies with FCC standards. Driver and key electronic components can easily be accessed.

Controls

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

Installation

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

Warranty

- LSI LED Fixtures carry a 5-year warranty.

Listings

- Listed to UL 1598 and UL 8750.
- Meets Buy American Act requirements.
- IDA compliant.
- Suitable for wet Locations.
- IP66 rated Luminaire per IEC 60598.
- 3G rated for ANSI C136.31 high vibration applications are qualified.
- Patented Silicone Optics (US Patent NO. 10,816,165 B2)
- IK08 rated luminiare per IEC 66262 mechanical impact code

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Mirada Medium Outdoor LED Area Light

Type : _____

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

ORDERING GUIDE

Back to Quick Links

TYPICAL ORDER EXAMPLE: MRM LED 4L SIL FTA UNV DIM AMT ALSCS04 BRZ IL

Prefix	Light Source	Lumen Package	Lens	Distribution	Orientation[2]	Voltage	Driver
MRM - Mirada Medium Area Light	**LED**	**2L** - 2,000 lms **4L** - 4,000 lms Custom Lumen Packages[1]	**SIL** - Silicone	**2** - Type 2 **3** - Type 3 **5W** - Type 5 Wide **FT** - Forward Throw **FTA** - Forward Throw Automotive **AM** - Automotive Merchandise	**(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 (10-100%)

Color Temp	Finish		Options
AMT - Narrow Band Amber	**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]

Controls (Choose One)

(Blank) - None

Wireless Controls System
ALSC - AirLink Synapse Control System
ALSCS02 - AirLink Synapse Control System with 12-20' Motion Sensor
ALSCS04 - AirLink Synapse Control System with 20-40' Motion Sensor
ALBCS1 - AirLink Blue Wireless Motion & Photo Sensor Controller (8-24' mounting height) [5]
ALBCS2 - AirLink Blue Wireless Motion & Photo Sensor Controller (25-40' mounting height) [5]

Stand-Alone Controls
EXT - 0-10v Dimming leads extended to housing exterior
CR7P - 7 Pin Control Receptacle ANSI C136.41 [6]
IMSBTL1- Integral Bluetooth™ Motion and Photocell Sensor (8-24' MH)[5]
IMSBTL2- Integral Bluetooth™ Motion and Photocell Sensor (25-40' MH)[5]

Button Type Photocells
PCI120 - 120V
PCI208-277 - 208 -277V
PCI347 - 347V

Need more information?
Click here for our glossary

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

ACCESSORY ORDERING INFORMATION[7]

CONTROLS ACCESSORIES	
Order Number	**Description**
122514	PC120 Photocell for use with CR7P option (120V)[8]
122515	PC208-277 Photocell for use with CR7P option (208V, 240V, 277V)[8]
122516	Twist Lock Photocell (347V) for use with CR7P [8]
1225180	Twist Lock Photocell (480V) for use with CR7P [8]
661409	AirLink 5 Pin Twist Lock Controller [8]
661410	AirLink 7 Pin Twist Lock Controller [8]
149328	Shorting Cap for use with CR7P

SHIELDING OPTIONS	
3" Single Sheild	See Shielding Guide
3" Corner Sheild	
3" C Shape Sheild	
6" Single Sheild	
6" Corner Sheild	
6" C Shape Sheild	

1. Custom lumen and wattage packages available, consult factory. Values are within industry standard tolerances but not DLC listed.
2. Not available with 5W distribution
3. Consult Factory for availability.
4. Not available in HV.
5. Motion sensors are field configurable via an app that can be downloaded from your smartphone's native app store. See controls section for more details.
6. Control device or shorting cap must be ordered separately. See Accessory Ordering Information.
7. Accessories are shipped separately and field installed.
8. Factory installed CR7P option required. See Options.
9. "CLR" denotes finish. See Finish options.

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Mirada Medium Outdoor LED Area Light

Type : _____

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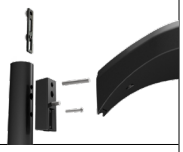
ACCESSORIES

MOUNTING ACCESSORIES

Side Arm

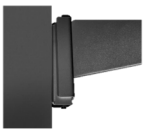
Universal Mounting Bracket
Mounts to ≥ 3" square or round (tapered/straight) poles with (2) mounting hole spaces between 3.5" to 5"

Part Number: BKA UMB CLR



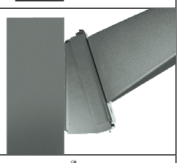
Quick Mount Plate
True one person installation to existing/new contruction poles with hole spaces beteen 2.4 to 4.6"

Part Number: BKS PQM B3B5 XX CLR



15° Tilt Quick Mount Plate
True one person installation to existing/new contruction poles with hole spaces beteen 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



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 lumianires

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



Wood Pole Bracket
Mounts onto wooden poles (6" minimum OD, hardware/anchors not inlcuded)

Part Number: BKS XBO WP CLR



SHIELDING, POLES & MISC. ACCESSORIES

Shielding

Integral Louver
Field Install Integral Louver provides maximum backlight control by shiedling each individual row of LEDS

Part Number: 690981



Integral Half Louver
Field Install Integral Half Louver provides great backlight control without impacting front side distribution.

Part Number: 743415



External Shield
External shield blocks view of light source from anyside of luminaire, additional shielding configurations available

Part Number: 783607BLK (3") / 776538BLK (6")



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/5RP



Tapered Poles
20' - 39' steel and aluminum poles for retrofit and new construction

Part Number: RTP



Misc.

Bird Spikes
10' Linear Bird Spike Kit, 4' recommended per luminaire, includes silcone adhesive and application tool

Part Number: 736795



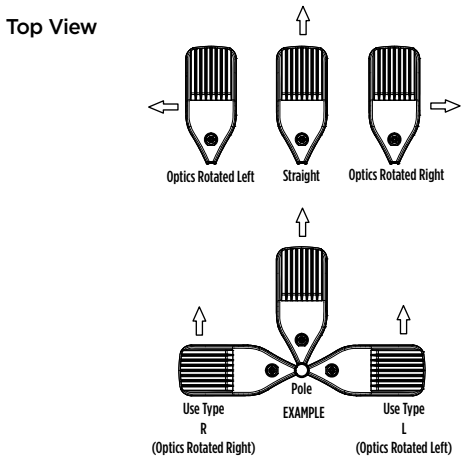
Replace CLR with paint finish description

Repleace 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



ACCESSORIES/OPTIONS

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

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

Luminaire Shown with Integral Louver (IL)



Luminaire Shown with IMSBTL Option



7 Pin Photoelectric Control

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

Luminaire Shown with CR7P



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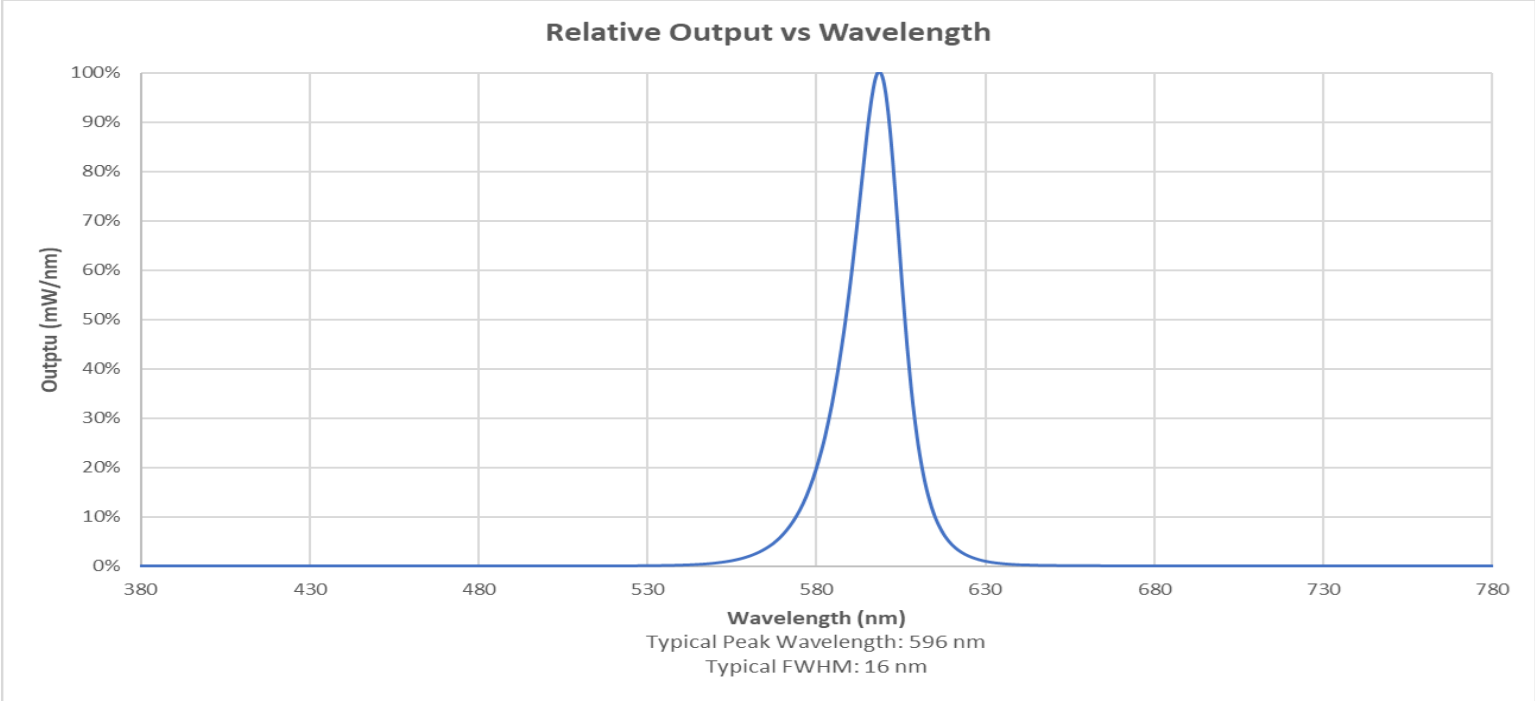
PERFORMANCE (CONT.)

DELIVERED LUMENS*					
Lumen Package	Distribution	Narrow Band Amber			Wattage
		Delivered Lumens	Efficacy	BUG Rating	
2L	2	2511	70	B1-U0-G1	36
	3	2600	73	B1-U0-G1	
	5W	2530	71	B2-U0-G1	
	FT	2599	73	B1-U0-G1	
	FTA	2514	70	B1-U0-G1	
	AM	2594	73	B1-U0-G1	
4L	2	3920	42	B1-U0-G1	94
	3	4059	43	B1-U0-G1	
	5W	3950	42	B3-U0-G1	
	FT	4058	43	B1-U0-G1	
	FTA	3925	42	B1-U0-G1	
	AM	4049	43	B1-U0-G1	

*LEDs are frequently updated therefore values are nominal.

ELECTRICAL DATA (AMPS)*							
Lumens	Wattage	120V	208V	240V	277V	347V	480V
2L	36	0.30	0.17	0.15	0.13	0.10	0.07
4L	94	0.78	0.45	0.39	0.34	0.27	0.20

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



SPECTRAL PERFORMANCE VS LUMEN OUTPUT		
Lumen Package	Peak Wavelength (nm)	FWHM (nm)
2L	594	15
4L	599	19

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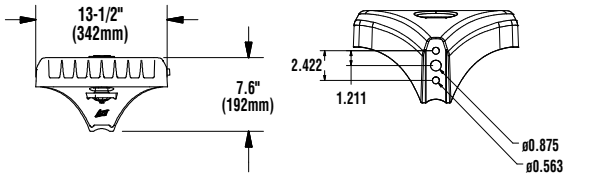
PRODUCT DIMENSIONS

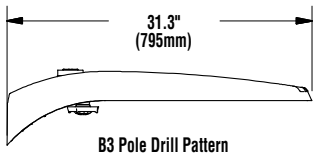
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LUMINAIRE EPA CHART - MRM

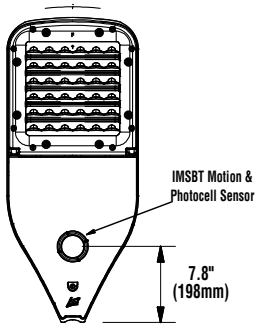
Tilt Degree		0°	30°	45°
	Single	0.5	1.5	1.9
	D180°	1.0	1.5	1.9
	D90°	0.8	1.9	2.3

Tilt Degree		0°	30°	45°
	T90°	1.0	2.5	2.8
	TN120°	1.0	3.3	3.9
	Q90°	1.0	2.5	2.8

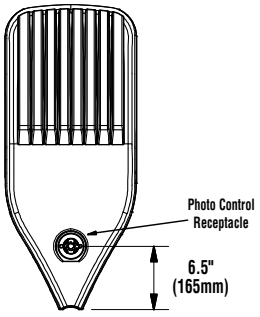




B3 Pole Drill Pattern



Bottom View



Top View

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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 Blue (ALBCSx)

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

Click here to learn more details about AirLink Blue

AirLink Blue App Apple

Sensor Sequence of Operations

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

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

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