

Patent Pending



Spec & Wallet Friendly New Architectural LED Area Lights

US & Int'l. patents pending

LSI Industries is pleased to announce the introduction of its new Mirada series LED Area Light (XALM). The sleek and attractive Mirada design makes it perfectly-suited for architectural applications, while its cost-effective die-cast aluminum housing makes its acquisition cost very competitive.

The Mirada uses high performance silicone optics, casts 36,000+ lumens and is available with integral and wireless controls. A matching Mirada wall sconce and bollard also coming soon.



Matching Mirada Series Wall Pack



Mirada Area Light Profile View



Top View Mirada Area Light



LED AREA LIGHTS - LSI MIRADA (XALM)



DOE LIGHTING FACTS

Department of Energy has verified representative product test data and results in accordance with its Lighting Facts Program. Visit www.lightingfacts.com for specific catalog strings.

LIGHT OUTPUT - XALM			
		Lumens (Nominal) Type 2, Type 5W, Type 3 and Type FT	Watts (Nominal)
3000K	SS	17100	154
	HO	25300	242
	VHO	31700	315
4000K	SS	18300	154
	HO	28000	242
	VHO	33000	315
5000K	SS	18500	154
	HO	29300	242
	VHO	35300	315

LED Chips are frequently updated therefore values may increase.

US & Int'l. patents pending

DISTRIBUTION/PERFORMANCE - Proprietary silicone refractor optics provide exceptional coverage and uniformity in Types 2, 3, 5W and FT. Internal Louver (IL) option available for improved back-light control without sacrificing street side performance.

ENERGY SAVING CONTROL OPTIONS - DIM - 0-10 volt dimming enabled with controls by others. Available with integrated LSI Controls wireless modules.

OCCUPANCY SENSING (IMS) - Optional integral passive infrared motion and daylight sensor activates switching of luminaire light levels. High level light is activated and increased to full bright upon detection of motion. Low light level (30% maximum drive current) is activated when target zone is absent of motion activity for ~2 minutes. Sensor is located on the center of the access cover and has a detection cone of approximately 45°.

LEDS - Select high-brightness LEDs in 5000K, 4000K, and 3000K color temperature, 70 CRI.

HOUSING - Rugged die-cast aluminum housing contains factory prewired driver and optical unit. Cast aluminum wiring access door located underneath. Fixture sealed to IP65.

MOUNTING - Tapered rear design allows fixtures to be mounted in 90° and 120° configurations without the need for extension arms. Use with 3" reduced drilling pattern. Wall mount brackets are available for direct mounting to wall.

ELECTRICAL - Two-stage surge protection (including separate surge protection built into electronic driver) meets IEEE C62.41.2-2002, Location Category C. Available with universal voltage power supply 120-277 VAC (50/60Hz input), and 347-480 VAC. Optional PCR and photocells (PC) are available in 120, 208, 240, 277, 347 and 480 volt (supply voltage must be specified).

DRIVER - Available in SS (Super Saver), HO (High Output) and VHO (Very High Output) drive currents. Components are fully encased in potting material for moisture resistance. Driver complies with FCC standards. Driver and key electronic components can easily be accessed.

OPERATING TEMPERATURE - -40°C to +50°C (-40°F to +122°F)

FINISH - 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.

WARRANTY - LSI LED fixtures carry a limited 5-year warranty.

PHOTOMETRICS - Please visit our web site at www.lsi-industries.com for detailed photometric data.

SHIPPING WEIGHT (in carton) - One fixture: 30 lbs. (13.6 kg).

LISTING - UL listed to U.S. and international safety standards. Suitable for wet locations. For a list of the specific products in this series that are DLC listed, please consult the LED Lighting section of our website or the Design Lights website at www.designlights.org.

This product, or selected versions of this product, meet the standards listed below. Please consult factory for your specific requirements.



Fixtures comply with ANSI C136.31-2010 American National Standard for Roadway Lighting Equipment - Luminaire Vibration 1.5G requirements.



Project Name _____ Fixture Type _____
 Catalog # _____

10/19/16
 © 2016
 LSI INDUSTRIES INC.

LED AREA LIGHTS - LSI MIRADA (XALM)

LUMINAIRE ORDERING INFORMATION

TYPICAL ORDER EXAMPLE: **XALM FT LED HO 50 UE WHT**

Prefix	Distribution	Light Source	Drive Current	Color Temperature	Input Voltage	Finish	Optional Controls	Options
XALM	2 - Type II 3 - Type III 5W - Type V Wide FT - Type FT	LED	SS - Super Saver HO - High Output VHO - Very High Output	50 - 5000K 40 - 4000K 30 - 3000K	UE - Universal Voltage (120-277V) 347-480 Universal Voltage (347-480V)	BRZ - Bronze BLK - Black GPT - Graphite MSV - Metallic Silver WHT - White PLP - Platinum Plus SVG - Satin Verde Green	Wireless Controls System ^{1,2} PCM - Platinum Control System PCMH - Host/Satellite Platinum Control System GCM - Gold Control System GCMH - Host/Satellite Gold Control System DIM - 0-10 Volt Dimming (required for satellite fixtures) ³ (Blank) - None Stand-Alone Control (Blank) - None DIM - 0-10 Volt Dimming (from external signal) ³ BLS - Bi-level Switching (from external 120-277V signal) ³ IMS - Integral Motion & Daylight Sensor ^{4,5}	Options PCR 7P - Photoelectric Control Receptacle ⁶ IL - Internal Louver House Side Shield

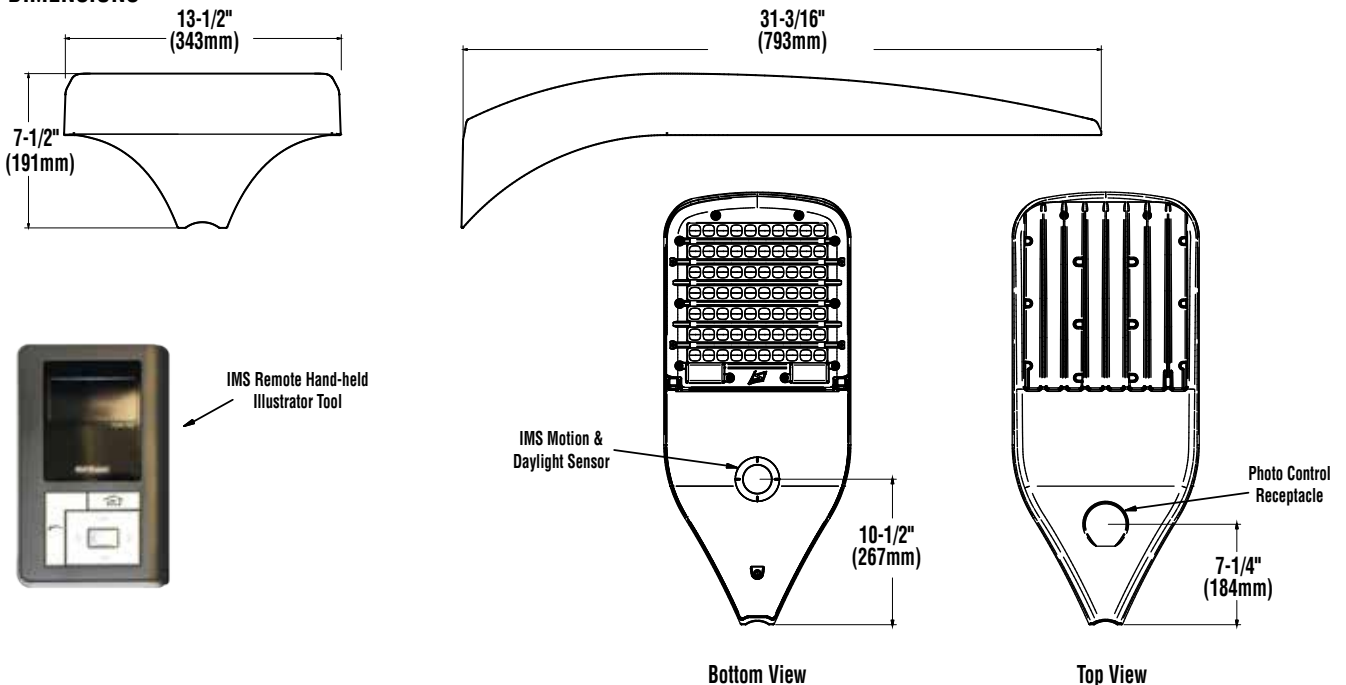
	Single	0.6
	D180°	1.1
	D90°	0.9
	T90°	1.9
	TN120°	1.9
	Q90°	2.1

Description	Order Number	Description	Order Number
PC120 Photocell for use with PCR option (120V)	122514 ⁸	DFK208, 240 Double Fusing (208V, 240V)	DFK208, 240 ⁹
PC208-277 Photocell for use with PCR option (208V, 240V, 277V)	122515 ⁸	DFK480 Double Fusing (480V)	DFK480 ⁹
PC347 Photocell for use with PCR option (347V)	122516 ⁸	FK347 Single Fusing (347V)	FK347 ⁹
PC480 Photocell for use with PCR option (480V)	122518 ⁸	PMOS120 - 120V Pole-Mount Occupancy Sensor	518030CLR ¹⁰
FK120 Single Fusing (120V)	FK120 ⁹	PMOS208/240 - 208, 240V Pole-Mount Occupancy Sensor	534239CLR ¹⁰
FK277 Single Fusing (277V)	FK277 ⁹	PMOS277 - 277V Pole-Mount Occupancy Sensor	518029CLR ¹⁰
IMS/PC Remote Configurator Tool	584929	PMOS480 - 480V Pole-Mount Occupancy Sensor	534240CLR ¹⁰
IL - Integral Louver HSS		BKS XBO WM * CLR Wall Mount Bracket	382132CLR

FOOTNOTES:

- For wireless controls information and accessories, see Controls Section.
- Requires a Site Manager and override switch. Not compatible with IMS or BLS Option.
- Not compatible with IMS.
- Not compatible with DIM, BLS or Wireless Control System.
- IMS is a Watt Stopper Dual Sensor (Daylight & Motion) which is field adjustable, via a hand held remote Illustrator tool, which must be ordered separately.
- Photocell must be ordered separately. 7 pin standard. See Accessories.
- Not available with IMS Option or Wireless Control System
- Factory installed PCR option required. See Options.
- Fusing must be located in hand hole of pole.
- To be used in conjunction with PCM/GCM control modules in fixture. Consult factory.

DIMENSIONS



Project Name _____ Fixture Type _____
Catalog # _____

10/19/16
© 2016
LSI INDUSTRIES INC.

LED AREA LIGHTS - LSI MIRADA (XALM)

BUG LISTING

XALM - Type 5

Drive Current	Color Temp.*	Lumens	Watts	LER	BUG Rating
VHO	30	30,344	314	97	B3-U0-G4
VHO-IL	30	25,003	314	80	B2-U0-G4
HO	30	24,654	241	102	B3-U0-G4
HO-IL	30	20,130	241	83	B2-U0-G4
SS	30	17,553	154	114	B2-U0-G3
SS-IL	30	14,552	154	94	B1-U0-G3

VHO	40	33,872	314	108	B3-U0-G4
VHO-IL	40	27,910	314	89	B2-U0-G4
HO	40	27,520	241	114	B3-U0-G4
HO-IL	40	22,471	241	93	B2-U0-G4
SS	40	18,874	154	122	B2-U0-G3
SS-IL	40	15,647	154	102	B1-U0-G3

VHO	50	35,282	314	113	B3-U0-G4
VHO-IL	50	29,073	314	93	B2-U0-G4
HO	50	28,667	241	119	B3-U0-G4
HO-IL	50	23,407	241	97	B2-U0-G4
SS	50	18,874	154	122	B2-U0-G3
SS-IL	50	15,647	154	102	B1-U0-G3

XALM - Type FT

Drive Current	Color Temp.*	Lumens	Watts	LER	BUG Rating
SS	30	17,471	154	113	B4-U0-G2
SS-IL	30	11,003	153	72	B2-U0-G2
HO	30	24,676	241	102	B5-U0-G3
HO-IL	30	14,825	241	61	B2-U0-G3
VHO	30	29,911	314	95	B5-U0-G3
VHO-IL	30	17,907	314	57	B2-U0-G3

VHO	40	33,389	314	106	B5-U0-G4
VHO-IL	40	19,988	314	64	B2-U0-G4
HO	40	27,807	242	115	B5-U0-G3
HO-IL	40	17,109	242	71	B2-U0-G3
SS	40	18,786	154	122	B4-U0-G2
SS-IL	40	11,831	153	77	B2-U0-G2

VHO	50	34,780	314	111	B5-U0-G4
VHO-IL	50	20,822	314	66	B3-U0-G4
HO	50	28,693	241	119	B5-U0-G3
HO-IL	50	17,238	241	71	B2-U0-G3
SS	50	18,786	154	122	B4-U0-G2
S-IL	50	11,831	153	77	B2-U0-G2

XALM - Type 3

Drive Current	Color Temp.*	Lumens	Watts	LER	BUG Rating
VHO	30	28,742	315	91	B3-U0-G4
VHO-IL	30	22,382	315	71	B2-U0-G4
HO	30	24,973	241	104	B3-U0-G4
HO-IL	30	18,937	241	79	B2-U0-G4
SS	30	15,927	154	103	B2-U0-G3
SS-IL	30	12,406	154	80	B1-U0-G3

VHO	40	32,084	315	102	B3-U0-G4
VHO-IL	40	24,985	315	79	B3-U0-G4
HO	40	27,876	241	116	B3-U0-G4
HO-IL	40	21,139	241	88	B2-U0-G4
SS	40	18,858	154	122	B3-U0-G3
SS-IL	40	14,362	154	93	B2-U0-G3

VHO	50	33,421	315	106	B3-U0-G5
VHO-IL	50	26,027	315	83	B3-U0-G4
HO	50	29,037	241	120	B3-U0-G4
HO-IL	50	22,020	241	91	B2-U0-G4
SS	50	18,858	154	122	B3-U0-G3
SS-IL	50	14,362	154	93	B2-U0-G3

* Color Temperature: 30-3000K, 40-4000K, 50-5000K





Why Molded Silicone Optics?



Mirada LED Series



Redondo LED Series



Zoom-In of Precise, Molded LSI Silicone Optics

LSI Molded Silicone Optic Benefits Include:

- High photo-thermal stability operating temps
- High light transmittance of 93%
- Does not yellow or crack with age
- Does not leak
- Lighter weight (compared with glass)
- Accurately able to reproduce complex designs
- Allows integration of additional designs, such as gaskets
- Proven and warranted solution

Why Molded Silicone Optics?

FEATURES	BENEFITS
High photo-thermal stability	Higher maximum operating temp levels
High light transmittance	Maximum light delivered to tasks
Accurate reproduction	Consistent high quality and reliability
Integration of additional designs	Fewer components required
Proven by LED chip makers	Confidence in use of material for application
Single piece optics	Increases leak resistance

FEATURES	Silicone	Acrylic	Polycarb
High Max Operating Temp	150° C	80°C	90°C
High Light Transmittance	~93%	~92%	~90%
UV Resistance (Yellows)	Superior	Good	Acceptable
Moisture Resistance	Good	Good	Good



INSTALLATION AND ASSEMBLY INSTRUCTIONS

XALM & XMR Series

SMARTVISION®

WARNING: Failure to follow instructions could result in damage to product and void warranties!

WARNING: Risk of fire or electrical shock. Disconnect power before installing or servicing.

WARNING: Verify the existing input voltage and ensure it matches input rating on luminaire's product label, located on inside of access door.



Listed to UL 1598
Suitable for wet locations

WARNING: Before proceeding, read all instructions carefully to ensure proper and safe installation.

WARNING: Warranty is void if luminaire is tilted up or down from horizontal!

IMPORTANT: This product must be installed in accordance with the applicable installation code by a person familiar with the construction and operation of the product and the hazards involved.

Tools required: 3/8" (10mm) nut driver or flat head screwdriver, 3/4" (19mm) socket with ratchet.

LUMINAIRE PREPARATION

1. Place luminaire - lens facing upward - onto work surface.
2. Loosen access door screw by turning CCM (counter-clockwise). Screw is captive; do not remove from door. See Figure 1.
3. Swing access door upwards until it rests against housing. See Figure 2.

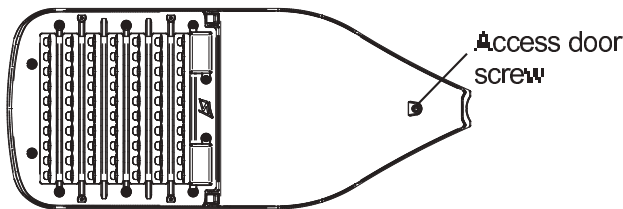


FIGURE 1

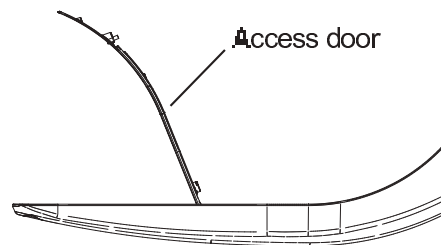
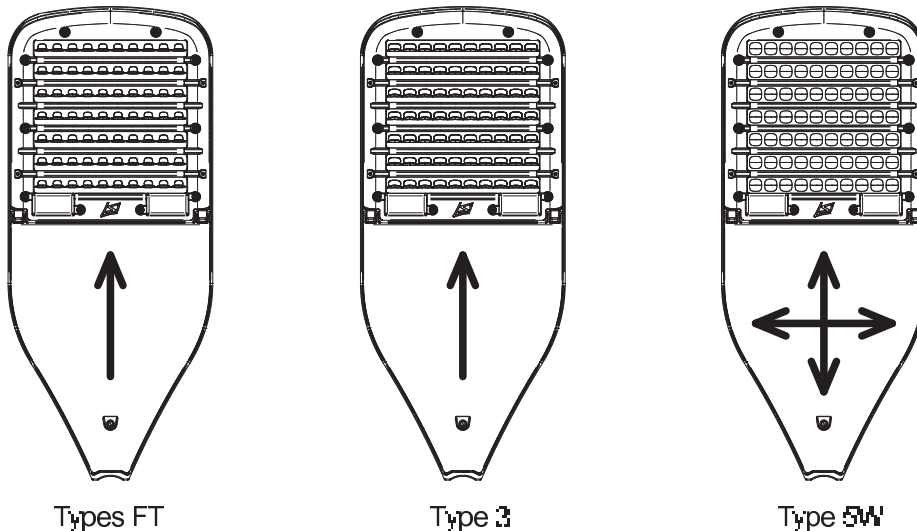


FIGURE 2

OPTIC IDENTIFICATION

1. Match the optic in the luminaire with the corresponding optic type. Model number nomenclature on product label (inside access door) identifies optic type as well. See Figure 3.

IMPORTANT: OPTICS ARE NOT ACCESSIBLE OR FIELD ROTATABLE!



Types FT

Type 3

Type SW

FIGURE 3

(Arrows indicate light output direction)



XALM & XMR Series, cont'd.

POLE PREPARATION

1. Lay pole on raised surface, protecting finish with soft cloth.
2. Locate hardware kit shipped with luminaire.
3. With nut plate inside pole, thread luminaire mounting studs thru top and bottom pole holes, then into nut plate.
4. Mounting studs should extend out of pole 1". See Figure 4.

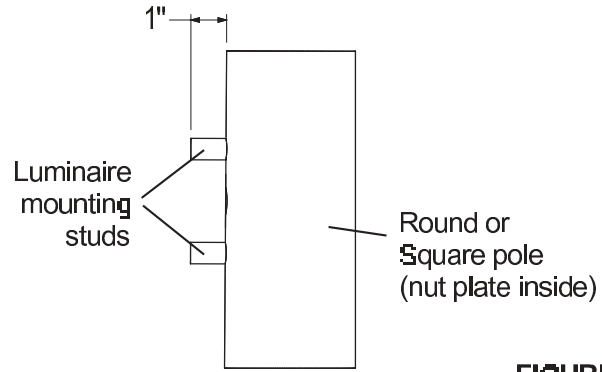


FIGURE 4

ASSEMBLY OF LUMINAIRE TO POLE - Figure 5

1. Feed supply wiring through center 7/8" (22mm) hole in nutplate and pole.
2. Position luminaire near luminaire mounting studs. Feed supply wiring thru center hole in back of luminaire, then through hole in inner wall.
3. Position luminaire over studs. Secure luminaire to studs with supplied locking hex washer nuts, FINGER-TIGHT ONLY!
NOTE: Take care not to pinch supply wiring.
4. To ensure level luminaire, tighten upper nut first, then lower nut, (tighten each to 25 ft-lbs.), making sure luminaire is "square" to pole.
5. Proceed to WIRING CONNECTIONS below.

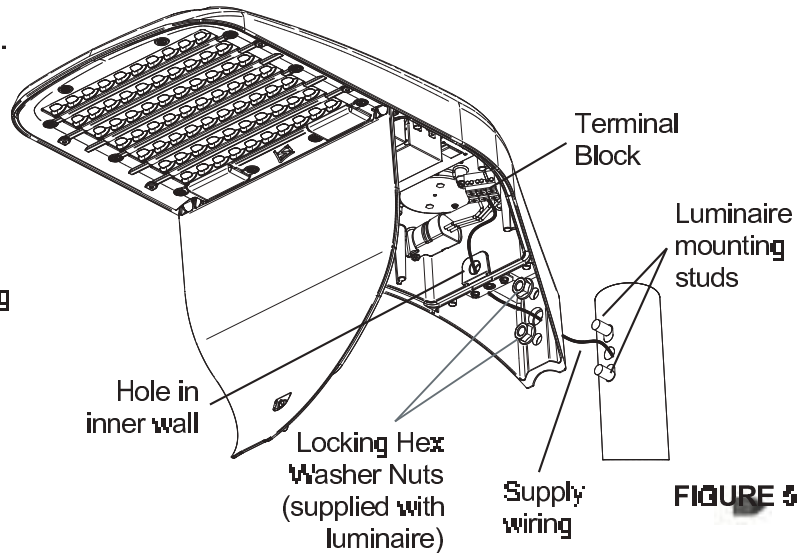


FIGURE 5

WIRING CONNECTIONS

WARNING: Wiring to be performed by qualified electrician! Wire per National Electrical Code and local code, as shown in Figure 6. Use supplied, installed terminal block in luminaire. See Figure 6.

IMPORTANT WIRING INFORMATION - Risk of electrical shock!

- * Make certain supply wiring is not energized before wiring luminaire.
- * Make certain supply voltage corresponds to luminaire voltage, as marked on luminaire label, located on inside of access door.
- * Use 12-18 AWG Copper (Solid or Stranded) wire

COMPLETING LUMINAIRE ASSEMBLY

1. Close access door and secure by turning access door screw CW (clockwise) until snug.
2. Install pole cap.

LUMINAIRE WIRING

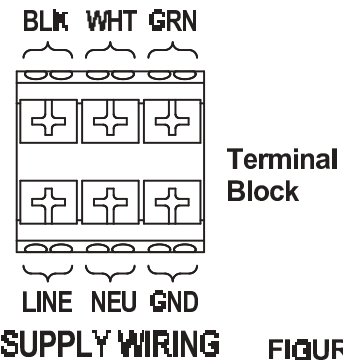


FIGURE 6

NOTE: Pole must be pointed in right direction. Reference Figure 3 to ensure light beam direction and pole direction are correct when compared to site layout drawing.

3. The luminaire and pole assembly is now ready for installation to anchor bolts. When erecting pole, use belts, slings or ropes - do NOT use chain or cable. Do not attach to luminaire or arm!
4. Set and level anchor bolts using nuts and washers provided.



Installation Questions?
Call LSI Field Service Department at:
1-800-436-7800 Ext. 3300
Fax: 1-877-861-1368