

Catalog # :

Project :

Prepared By :

Date :



Slice Medium - SLM Outdoor LED Area Light



The Slice's sleek design makes it perfectly-suited for Commercial & Industrial applications, while its cost-effective die-cast aluminum housing makes its acquisition cost very competitive. The Slice offers high performance silicone optics, die cast aluminum housing, 42,000+ lumens and is available with integral Airlink Synapse controls.

Features & Specifications

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 and FTA.
- Silicone optical material does not yellow or crack with age and provides a typical light transmittance of 93%.
- Zero uplight.
- Available in 5000K, 4000K, 3000K, 2700K and Amber color temperatures per ANSI C78.377.
- Minimum CRI of 70. Optional 80 CRI available, consult factory for lead time.
- Integral Louver (IL) option available for improved back-light control without sacrificing street side performance. See page 5 for more details.

Electrical

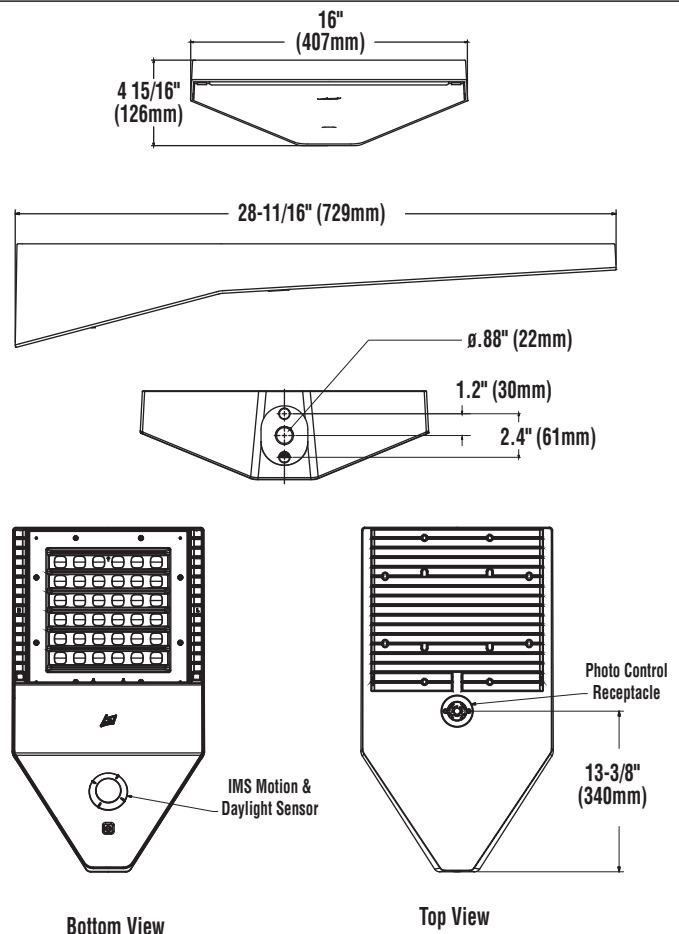
- High-performance driver features over-voltage, under-voltage, short-circuit and over temperature protection.
- 0-10V dimming (10% - 100%) standard.
- Standard Universal Voltage (120-277 Vac) Input 50/60 Hz or optional High Voltage (347-480 Vac).
- L80 Calculated Life: >100k Hours (See Lumen Maintenance on Page 3)
- Total harmonic distortion: <20%
- Operating temperature: -40°C to +50°C (-40°F to +122°F). 42L lumen package rated to +40°C.
- Power factor: >.90
- Input power stays constant over life.
- Field replaceable 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
- Terminal block provided accepts up to 10ga wire.
- Components are fully encased in potting material for moisture resistance. Driver complies with FCC standards. Driver and key electronic components can easily be accessed.



IP66

ARRA
Funding Compliant

Product Dimensions



Bottom View

Top View



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Features & Specifications (Cont.)

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 poles.
- Luminaire is proudly manufactured in the U.S. of U.S. and imported parts.
- IP66 rated luminaire protects integral components from harsh environments.
- 3G rated for ANSI C136.31 high vibration applications
- 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: 30 lbs in carton.

Controls

- Optional integral passive infrared motion and daylight sensor activates switching of luminaire light levels (see page 6 for more details).
- 7-pin ANSI C136.41-2013 photocontrol receptacle option available for twist lock photocontrols or wireless control modules.
- LSI's AirLink™ wireless control system options reduce energy and maintenance costs while optimizing light quality 24/7. (see page 6 for more details)

Installation

- A single fastener secures the hinged door, underneath the housing and provides quick & easy access to the electrical compartment for installing/servicing.
- Included terminal block provides quick and easy on-site wiring.
- Utilizes LSI's traditional 3" drill pattern for easy fastening of LSI products. (See drawing on page 1)

Warranty

- LSI LED Fixtures carry a 5-year warranty.

Listings

- Listed to UL 1598 and UL 8750.
- RoHS Compliant.
- American Recovery and Reinvestment Act Funding Compliant.
- IDA compliant; with 3000K color temperature selection.
- Suitable For wet Locations.
- IP66 rated Luminaire. IP66 rated optical chamber.
- 3G rated for ANSI C136.31 high vibration applications

Performance

ELECTRICAL DATA*							
Lumens	Watts	120V	208V	240V	277V	347V	480V
9L	68.2	0.6A	0.3A	0.3A	0.2A	0.2A	0.1A
12L	93.1	0.8A	0.4A	0.4A	0.3A	0.3A	0.2A
18L	148.5	1.2A	0.7A	0.6A	0.5A	0.4A	0.3A
24L	188.8	1.6A	0.9A	0.8A	0.7A	0.5A	0.4A
30L	248.6	2.1A	1.2A	1.0A	0.9A	0.7A	0.5A
36L	317.8	2.6A	1.5A	1.3A	1.1A	0.9A	0.7A
42L	393.4	3.3A	1.9A	1.6A	1.4A	1.1A	0.8A

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

RECOMMENDED LUMEN MAINTENANCE¹(24-42L)

Ambient	Initial ²	25 hr ²	50 hr ²	75 hr ³	100 hr ³
0-40 C	100%	100%	97%	94%	92%

RECOMMENDED LUMEN MAINTENANCE¹(9-18L)

Ambient	Initial ²	25 hr ²	50 hr ²	75 hr ³	100 hr ³
0-50 C	100%	96%	91%	87%	83%

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

2- In accordance with IESNA TM-21-11, Projected Values represent interpolated value based on time durations that are within six times the IESNA LM-80-08 total test duration for the device under testing.

3- In accordance with IESNA TM-21-11, Calculated Values represent time durations that exceed six times the IESNA LM-80-08 total test duration for the device under testing

Slice ALSCH Satellite #														
Input Current (Amps)									Satellites Supported					
VAC	42L	36L	30L	24L	18L	12L	9L	42L	36L	30L	24L	18L	12L	9L
110	3.6	2.9	2.3	1.7	1.4	0.8	0.6	0	0	1	1	2	4	4
120	3.4	2.6	2.1	1.6	1.2	0.8	0.6	0	0	1	2	2	4	4
208	1.9	1.5	1.2	0.9	0.7	0.4	0.3	1	2	3	4	4	4	4
240	1.6	1.3	1.0	0.8	0.6	0.4	0.3	1	2	3	4	4	4	4
277	1.4	1.1	0.9	0.7	0.5	0.3	0.2	2	3	4	4	4	4	4
347	1.1	0.9	0.7	0.5	0.4	0.3	0.2	3	4	4	4	4	4	4
480	0.8	0.7	0.5	0.4	0.3	0.2	0.1	4	4	4	4	4	4	4

LUMINAIRE EPA CHART - SLM	
	Single 0.6
	D180° 1.1
	D90° 0.9
	T90° 1.9
	TN120° 1.9
	Q90° 2.1



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DELIVERED LUMENS*												
Lumen Package	Distribution	CRI	3000K CCT			4000K CCT			5000K CCT			Wattage
			Delivered Lumens	Efficacy	BUG Rating	Delivered Lumens	Efficacy	BUG Rating	Delivered Lumens	Efficacy	BUG Rating	
09L	2	70	8956	131	B2-U0-G2	9427	138	B2-U0-G2	9838	144	B2-U0-G2	68.2
	2 - IL	70	5632	81	B1-U0-G1	5928	86	B1-U0-G1	6186	89	B1-U0-G1	
	3	70	9088	133	B2-U0-G2	9566	140	B2-U0-G2	9983	146	B2-U0-G2	
	3 - IL	70	6608	95	B0-U0-G2	6956	101	B0-U0-G2	7259	105	B0-U0-G2	
	5W	70	8431	123	B3-U0-G2	8875	130	B3-U0-G2	9262	135	B3-U0-G2	
	FT	70	9046	133	B2-U0-G2	9522	140	B2-U0-G2	9937	146	B2-U0-G2	
	FT- IL	70	5782	84	B0-U0-G2	6086	88	B0-U0-G2	6351	92	B0-U0-G2	
	FTA	70	8993	131	B2-U0-G2	9466	138	B2-U0-G2	9879	144	B2-U0-G2	
12L	2	70	11842	127	B3-U0-G2	12465	134	B3-U0-G2	13009	140	B3-U0-G2	93.1
	2 - IL	70	7447	80	B1-U0-G2	7839	84	B1-U0-G1	8180	88	B1-U0-G1	
	3	70	12017	129	B2-U0-G2	12649	136	B2-U0-G2	13200	142	B2-U0-G2	
	3 - IL	70	8738	94	B0-U0-G2	9198	99	B0-U0-G2	9599	103	B0-U0-G2	
	5W	70	11149	120	B4-U0-G2	11735	126	B4-U0-G2	12247	132	B4-U0-G2	
	FT	70	11962	128	B2-U0-G2	12591	135	B2-U0-G2	13140	141	B2-U0-G3	
	FT- IL	70	7645	82	B0-U0-G2	8048	86	B1-U0-G2	8398	90	B1-U0-G2	
	FTA	70	11891	128	B3-U0-G3	12517	134	B3-U0-G3	13062	140	B3-U0-G3	
18L	2	70	17722	119	B3-U0-G3	18655	126	B3-U0-G3	19468	131	B3-U0-G3	148.5
	2 - IL	70	11144	75	B1-U0-G2	11731	79	B1-U0-G2	12242	82	B1-U0-G2	
	3	70	17984	121	B2-U0-G3	18930	127	B3-U0-G3	19755	133	B3-U0-G3	
	3 - IL	70	13077	88	B1-U0-G2	13765	93	B1-U0-G2	14365	97	B1-U0-G3	
	5W	70	16685	112	B4-U0-G2	17563	118	B4-U0-G2	18328	123	B4-U0-G2	
	FT	70	17901	121	B3-U0-G3	18843	127	B3-U0-G3	19664	132	B3-U0-G4	
	FT- IL	70	11441	77	B1-U0-G3	12044	81	B1-U0-G3	12568	85	B1-U0-G3	
	FTA	70	17796	120	B3-U0-G3	18732	126	B3-U0-G3	19549	132	B3-U0-G3	
24L	2	70	24122	128	B4-U0-G3	24851	132	B4-U0-G3	25119	133	B4-U0-G3	188.8
	2 - IL	70	14595	78	B1-U0-G2	15036	80	B1-U0-G2	15198	81	B1-U0-G2	
	3	70	24945	132	B3-U0-G3	25699	136	B3-U0-G4	25976	138	B3-U0-G4	
	3 - IL	70	17364	92	B1-U0-G3	17889	95	B1-U0-G3	18082	96	B1-U0-G3	
	5W	70	22673	122	B5-U0-G3	23667	125	B5-U0-G3	23823	127	B5-U0-G3	
	FT	70	24276	129	B3-U0-G4	25010	132	B3-U0-G4	25280	134	B3-U0-G4	
	FT- IL	70	15254	81	B1-U0-G3	15715	84	B1-U0-G3	15885	85	B1-U0-G3	
	FTA	70	24715	131	B3-U0-G3	25462	135	B3-U0-G3	25737	136	B3-U0-G3	
30L	2	70	30286	122	B4-U0-G3	31201	126	B4-U0-G3	31538	127	B1-U0-G2	248.6
	2 - IL	70	18324	74	B1-U0-G2	18878	76	B1-U0-G2	19082	77	B1-U0-G2	
	3	70	31319	126	B3-U0-G4	32266	130	B3-U0-G4	32614	131	B3-U0-G4	
	3 - IL	70	21801	88	B1-U0-G4	22460	90	B1-U0-G4	22703	91	B1-U0-G4	
	5W	70	28843	116	B5-U0-G3	29715	120	B5-U0-G3	30036	121	B5-U0-G4	
	FT	70	30479	123	B3-U0-G4	31401	126	B3-U0-G4	31740	128	B3-U0-G5	
	FT- IL	70	19152	77	B1-U0-G3	19731	79	B1-U0-G3	19944	80	B1-U0-G4	
	FTA	70	31030	125	B3-U0-G3	31969	129	B4-U0-G3	32314	130	B4-U0-G3	
36L	2	70	36082	114	B4-U0-G4	37173	117	B4-U0-G4	37574	118	B4-U0-G4	317.8
	2 - IL	70	21831	69	B2-U0-G3	22491	71	B2-U0-G3	22734	72	B2-U0-G3	
	3	70	37313	117	B3-U0-G4	38442	121	B3-U0-G4	38857	122	B4-U0-G4	
	3 - IL	70	25974	82	B1-U0-G4	26759	84	B1-U0-G4	27048	85	B1-U0-G4	
	5W	70	34363	108	B5-U0-G4	35402	111	B5-U0-G4	35784	113	B5-U0-G4	
	FT	70	36313	114	B3-U0-G5	37411	118	B4-U0-G5	37815	119	B4-U0-G5	
	FT- IL	70	22817	72	B1-U0-G4	23507	74	B1-U0-G4	23761	75	B1-U0-G4	
	FTA	70	36969	116	B4-U0-G4	38087	120	B4-U0-G4	38498	121	B4-U0-G4	
42L	2	70	41060	104	B5-U0-G4	42301	108	B5-U0-G4	42758	109	B5-U0-G4	393.4
	2 - IL	70	24843	63	B2-U0-G3	25594	65	B2-U0-G3	25871	66	B2-U0-G3	
	3	70	42461	108	B4-U0-G5	43745	111	B4-U0-G5	44217	112	B4-U0-G5	
	3 - IL	70	29557	75	B1-U0-G4	30451	77	B1-U0-G4	30779	78	B1-U0-G4	
	5W	70	39104	99	B5-U0-G4	40286	102	B5-U0-G4	40721	104	B5-U0-G4	
	FT	70	41323	105	B4-U0-G5	42572	108	B4-U0-G5	43032	109	B4-U0-G5	
	FT- IL	70	25965	66	B1-U0-G4	26750	68	B1-U0-G4	27039	69	B1-U0-G4	
	FTA	70	42069	107	B4-U0-G4	43341	110	B4-U0-G4	43809	111	B4-U0-G4	
	FTA - IL	70	28491	72	B1-U0-G2	29353	75	B1-U0-G3	29670	75	B1-U0-G3	

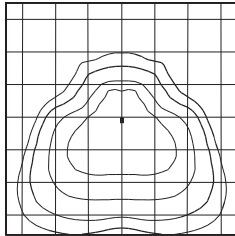
*LED Chips are frequently updated therefore values are nominal



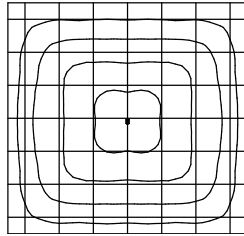
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Performance (Cont.)

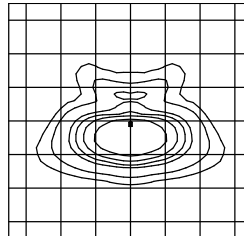
All published luminaire photometric testing performed to IESNA LM-79 standards. ISO footcandle plots below demonstrate the Slice (SLM) light patterns only. Not for total fixture output. For complete specifications and IES files, see website.



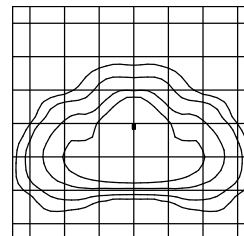
FT



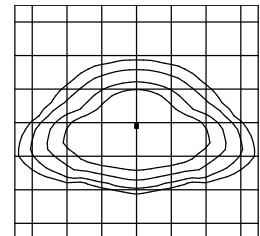
5W



FTA



Type 3



Type 2

Ordering Guide

TYPICAL ORDER EXAMPLE:

SLM LED 36L SIL FTA UNV DIM 50 ALSC BRZ IL

Luminaire Prefix	Light Source	Lumen Package	Light Output	Distribution	Orientation ¹¹	Voltage	Driver
SLM (Slice)	LED	9L - 9,000 lms 12L - 12,000 lms 18L - 18,000 lms 24L - 24,000 lms 30L - 30,000 lms 36L - 36,000 lms 42L - 42,000 lms *Consult factory for program-mable wattages and lumen packages	SIL - Silicone	2 - Type 2 3 - Type 3 5W - Type 5 Wide ¹¹ FT - Type Forward Throw FTA - Forward Throw Automotive	(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	Finish	Options
50 - 5,000 CCT 40 - 4,000 CCT 30 - 3,000 CCT 27 - 2,700 CCT ¹ AMB - Amber ¹	70 - 70 CRI 80 - 80 CRI ¹	(Blank) - None Wireless Controls System ALSC - AirLink Synapse Control System ^{2,3} ALSCH - AirLink Synapse Control System ^{3,4,10} Host / Satellite IMSS - Integral motion & Daylight Sensor 24V (for use with ALSC/ALSCH) ^{6,7,14} Stand-Alone Controls EXT - 0-10v Dimming ⁵ IMS - Integral Motion & Daylight Sensor ^{6,7}	BRZ - Bronze BLK - Black GPT - Graphite MSV - Metallic Silver WHT - White PLP - Platinum Plus SVG - Satin Verde Green	(Blank) - None Button Type Photocells ⁸ PCI120 - 120V PCI208 - 208V PCI240 - 240V PCI277 - 277V PCI347 - 347V PCR7P ⁹ - 7 Pin Photoelectric Control Receptacle IL - Integral Louver HSS



Slice Medium - SLM Outdoor LED Area Light

Accessory Ordering Information

Description	Order Number	Description	Order Number
PC 120 Photocell for use with PCR option (120v) ¹⁴	122514	PMOS24 - 24V Pole-Mount Occupancy Sensor ¹⁵	663284CLR
PC208-277 Photocell for use with PCR option (208V, 240V, 277V) ¹⁴	122515	FK120 Single Fusing (120V) ¹³	FK120
PC347 Photocell for use with PCR option (347V) ¹⁴	122516	FK277 Single Fusing (277V) ¹³	FK277
PC480 Photocell for use with PCR option (480V) ¹⁴	1225180	DFK480 Double Fusing (480V) ¹³	DFK480
ALSC UNV TL5 - AirLink 5 ¹²	661409	BLS XBO WM CLR Wall Mount Bracket ¹⁵	382132CLR
ALSC UNV TL7 - AirLink 7 ¹²	661410	IMS/PC Remote Configurator Tool	5849929
		IL - Integral louver HSS	684812

FOOTNOTES:

- 1 - Consult Factory for availability & Lead Time.
- 2 - Not available with ALSCH, PCR7P, EXT and Button Type Photocells.
- 3 - Not available in HV.
- 4 - Not available with ALSC, PCR7P, EXT and Button Type Photocells.
- 5 - Not compatible with IMS, Wireless Controls System, Button Type Photocells and PCR7P
- 6 - Not available with EXT and Button Type Photocells.
- 7 - IMS is a Dual Sensor (Daylight & Motion) which is field adjustable, via a hand held Remote Configurator Tool, which must be ordered separately. See Accessory Ordering Information.
- 8 - Not available with EXT, IMS, Wireless Controls Systems and PCR7P.

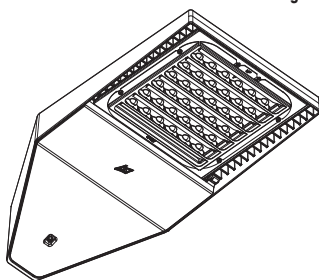
- 9 - Not available with ALSC, ALSCH, Button Type Photocells, IMS. Photocell must be ordered separately. 7 pin standard. See Accessory Ordering Information.
- 10 - See ALSCH configuration support table on page 2.
- 11 - 90L & 90R option not available on "Type 5W" distribution. See Options.
- 12 - Factory installed PCR7P option required. See Accessories.
- 13 - Fusing must be located in hand hole of pole.
- 14 - Not available with Wireless Control systems and IMS.
- 15 - "CLR" denotes finish. See Finish options.
- 16 - Must be used with ALSC or ALSCH controls.

Accessories/Options

Integral Louver (IL)

Accessory Integral Louver available for improved back-light control without sacrificing street side performance.

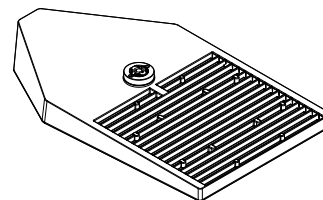
Luminaire shown with Integral Louver (IL)



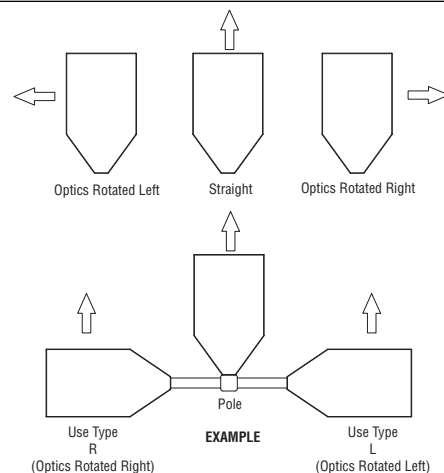
7 Pin Photoelectric Control

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).

Fixture Shown with PCR 7P



Optics Rotation





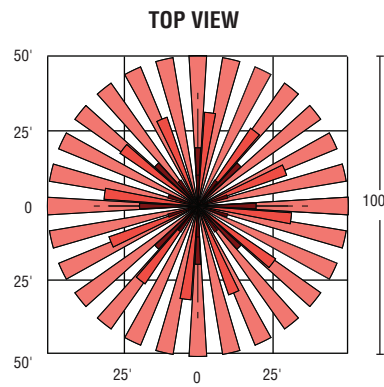
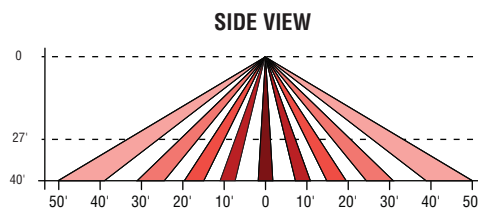
Slice Medium - SLM Outdoor LED Area Light

LSI offers a variety of integrated controls options which are compatible with the Slice Area Light and factory-installed for your convenience.

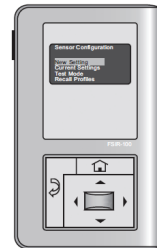
1 Stand-alone Controls: Occupancy/Daylight Sensor (IMS/IMSS)

Optional integral passive infrared motion and daylight sensor activates switching of luminaire light levels. Standard Factory settings: High level light is activated and increased to full bright upon detection of motion; photocell is disabled, use Remote Configurator Tool to program. Lowlight level (10% maximum drive current) is activated when target zone is absent of motion activity for ~5 minutes. See coverage diagram for detection cone. Optional configurator tool allows for easy and safe programming of each luminaire from ground level.

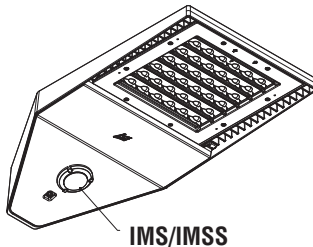
IMS/IMSS Coverage Diagram



Remote Configurator Tool



Luminaire Shown With IMS/IMSS



2 Wireless Lighting Control System: AirLink™ enabled by Synapse®

AirLink is perfect for sites that require more functionality, customization and site-wide connectivity & control. LSI offers two options for this specific feature: the factory-integrated AirLink Wireless Lighting Controller or Photoelectric Control Receptacle with AirLink Twist Lock Controller (accessory). Both options provide seamless integration into the AirLink system and its self-healing mesh network. Other features of this system include: utility grade power monitoring (-2% accuracy); remote control and scheduling; flexible 0-10V dimming control; on/off switching; secure, over-the-air upgrades to support future enhancements, status monitoring of your lighting fixtures; and 5 year limited warranty.

The AirLink system radio: SNAP 2.4 GHz; 802.15.4; +20 dBm Transmit Power; -105 dBm Receive Sensitivity; excellent RF Range — 1,000ft LoS between controllers.

See next page for more info. For full product and system specifications visit www.lsi-airlink.com/airlink-synapse/

Contact LSI Controls



Sales
controls.sales@lsi-industries.com



Support
controls.support@lsi-industries.com
1 (800) 436-7800 (support, option 8)



More information
For more information on AirLink, visit our website at www.lsi-airlink.com/airlink



Slice Medium - SLM Outdoor LED Area Light



AirLink™
enabled by Synapse®

1 Integrated Wireless Lighting Controller



Features

- True On/Off functionality via switched relay
- Relay closes on power loss
- Supports a wide range of LED drivers and fixtures
- Direct Connect up to two (2) to 24V Occupancy Sensors and Photocells (consult sales for compatible list)
- Available in a metal cased version with quick connect terminal blocks
- Lights default to on for safety
- Dimensions: 8.2" L x 2.3" W x 1.3" H (209mm L x 59mm W x 33mm H) without antennas

Regulatory Approvals

- FCC, IC, CE certified
- cULus and DLC Listed
- California Title 24 compliant

Power and Performance

- Operating environmental: -40°F to 131°F (-40°C to 55°C)
- Input power: 100–277 VAC +/- 10% (Max 305V) 47/64 Hz
- Switched output: Default ON; Zero Cross Switching
- Load rating: 5A @ 100V to 277V (+/- 10%)
- Dimming: 0–10V control; Output: Class 1/2 - 20mA Source Max / 50mA Sink Max
- Sensors inputs: 0–10V (photocell sensors), 0–24V (all other sensors); Sensor power supply: 24VDC @ 50mA

2 Wireless Lighting Controller 5 Pin & 7 Pin Twist Lock (accessory with Photoelectric Control Receptacle)



Features

- Integrated Photocell
- ANSI C136.41 Dimming Receptacle Support
- Digital sensor input for motion sensing (ALSC UNV TL7 only)
- Dimensions: 4.53" W x 2.68" H (115mm W x 68mm H)

Regulatory Approvals

- FCC, IC certified
- UL and DLC Listed

Power and Performance

- Operating environmental: -40°F to 158°F (-40°C to 70°C); 20% to 90% RH non-condensing; IP66
- Input power: 100–277 VAC +/- 10% (Max 305V) 50/60 Hz
- Switched output: Default ON
- Load rating: 5A @ 100V to 277V (+/- 10%)
- Dimming output: maximum current 10mA
- Sensor input: One digital input that can be used for motion-based lighting controls (ALSC UNV TL7 only)
- Power readings: Voltage, Watts