Features & Specifications

Optical System
- State-of-the-Art one piece silicone optic sheet delivers industry leading optical control with an integrated gasket to provide IP65 rated sealed optical chamber in 1 component.
- Proprietary silicone refractor optics provide exceptional coverage and uniformity in IES Types 2, 3, and Forward Throw (FT).
- 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, and 2700K color temperatures per ANSI C78.377.
- Minimum CRI of 70.

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 2)
- Total harmonic distortion: <20%
- Operating temperature: -40°C to +50°C (-40°F to +122°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).
- 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 120v-277v integral emergency battery pack is available. The 90-minute batteries provide constant power to the LED system, ensuring code compliance. A test switch/indicator button is installed on the housing for ease of maintenance. Operating temperature for standard battery backup: -0°C to +50°C (-32°F to +122°F), Cold Weather battery backup: -20°C to +50°C (-4°F to +122°F).
Features & Specifications (Cont.)

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. 3G rated per ANSI C136.31 for high vibration applications when pole-mounted with XPMA.
- Luminaire is proudly manufactured in the U.S. of U.S. and imported parts.
- 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
Wireless Controls System
To make this fixture AirLink ready, simply order one of the following options:
- The integrated Wireless Lighting Controller: ALSC or ALSCH (see ordering guide) as the controls option, or
- Integrated Wireless Controller option (above) with integrated motion sensor: ALSCS (ordering guide for mounting heights)

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.
- Included terminal block accepts up to 12 ga wire.

Warranty
- LSI LED Fixtures carry a 5-year warranty.
- 1 Year warranty on optional Battery Back Up. Test regularly in accordance with local codes.

Listings
- Listed to UL 1598 and UL 8750.
- RoHS Compliant.
- American Recovery and Reinvestment Act Funding Compliant.
- 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. IP65 rated optical chamber.
- 3G rated for ANSI C136.31 high vibration applications when pole mounted using optional XPMA bracket
- 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.

Performance

Electrical Data*

<table>
<thead>
<tr>
<th>Lumen Package</th>
<th>Watts</th>
<th>120V</th>
<th>208V</th>
<th>240V</th>
<th>277V</th>
<th>347V</th>
<th>480V</th>
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<tr>
<td>03L</td>
<td>22.6</td>
<td>0.19</td>
<td>0.11</td>
<td>0.09</td>
<td>0.08</td>
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<tr>
<td>04L</td>
<td>29.5</td>
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<tr>
<td>06L</td>
<td>44.7</td>
<td>0.37</td>
<td>0.21</td>
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<td>0.16</td>
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<td>0.09</td>
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<tr>
<td>08L</td>
<td>62.0</td>
<td>0.52</td>
<td>0.30</td>
<td>0.26</td>
<td>0.22</td>
<td>0.18</td>
<td>0.13</td>
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<tr>
<td>12L</td>
<td>102.2</td>
<td>0.85</td>
<td>0.49</td>
<td>0.43</td>
<td>0.37</td>
<td>0.29</td>
<td>0.21</td>
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*Electrical data at 25C (77F). Actual wattage may differ by +/-10%.

Recommended Lumen Maintenance (3L-6L)*

<table>
<thead>
<tr>
<th>Ambient Temperature</th>
<th>Initial</th>
<th>25K hrs.</th>
<th>50K hrs.</th>
<th>75K hrs.</th>
<th>100K hrs.</th>
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<tbody>
<tr>
<td>0 C</td>
<td>100%</td>
<td>98%</td>
<td>95%</td>
<td>93%</td>
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<tr>
<td>10 C</td>
<td>100%</td>
<td>98%</td>
<td>95%</td>
<td>93%</td>
<td>90%</td>
</tr>
<tr>
<td>20 C</td>
<td>100%</td>
<td>98%</td>
<td>95%</td>
<td>93%</td>
<td>90%</td>
</tr>
<tr>
<td>25 C</td>
<td>100%</td>
<td>98%</td>
<td>95%</td>
<td>93%</td>
<td>90%</td>
</tr>
<tr>
<td>30 C</td>
<td>100%</td>
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<td>95%</td>
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<td>90%</td>
</tr>
<tr>
<td>40 C</td>
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<td>95%</td>
<td>93%</td>
<td>90%</td>
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<tr>
<td>50 C</td>
<td>100%</td>
<td>98%</td>
<td>96%</td>
<td>94%</td>
<td>91%</td>
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Recommended Lumen Maintenance (8L-12L)*

<table>
<thead>
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<th>Ambient Temperature</th>
<th>Initial</th>
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<th>50K hrs.</th>
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<tbody>
<tr>
<td>0 C</td>
<td>100%</td>
<td>97%</td>
<td>94%</td>
<td>90%</td>
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<td>10 C</td>
<td>100%</td>
<td>97%</td>
<td>94%</td>
<td>90%</td>
<td>87%</td>
</tr>
<tr>
<td>20 C</td>
<td>100%</td>
<td>97%</td>
<td>94%</td>
<td>90%</td>
<td>87%</td>
</tr>
<tr>
<td>25 C</td>
<td>100%</td>
<td>97%</td>
<td>93%</td>
<td>90%</td>
<td>86%</td>
</tr>
<tr>
<td>30 C</td>
<td>100%</td>
<td>97%</td>
<td>93%</td>
<td>90%</td>
<td>85%</td>
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<tr>
<td>40 C</td>
<td>100%</td>
<td>97%</td>
<td>93%</td>
<td>88%</td>
<td>84%</td>
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<tr>
<td>50 C</td>
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<td>96%</td>
<td>91%</td>
<td>87%</td>
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</table>

* Lumen maintenance values at 25C are calculated per TM-21 based on LM-80 data and in-situ testing.
1 - 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.
2 - Lumen maintenance values at 25C are calculated per TM-21 based on LM-80 data and in-situ testing times the IESNA LM-80-08 total test duration for the device under testing.

Specifications and dimensions subject to change without notice.

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Mirada Wall Sconce - XWM
Outdoor LED Wall Sconce

Performance (Cont.)

DELIVERED LUMENS*

<table>
<thead>
<tr>
<th>Lumen Package</th>
<th>Distribution</th>
<th>CRI</th>
<th>2700K</th>
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<td>03L 2</td>
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<td>70</td>
<td>120</td>
<td>B1-U0-G1</td>
<td>2838</td>
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<td>FT 2</td>
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<td>7035</td>
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<td>10516</td>
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<td>10707</td>
<td>105</td>
<td>B2-U0-G3</td>
<td>11178</td>
</tr>
</tbody>
</table>

*LED Chips are frequently updated therefore values are nominal.

Photometrics

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

Type 2

Type 3

FT
### Ordering Guide

**Typical Order Example:**

- **Luminaire Prefix:** XWM
- **Lumen Package:** 2L - 5000 lms
- **Color Temp:** 3K - 3000K
- **Finish:** BRZ - Bronze
- **Controls:** ALSC - Airlink Synapse Control System

#### Luminaire Prefix Options

- **XWM - Mirada Wall Sconce**
- **FT - Type 4 Forward Throw**

#### LED Technology Options

- **3L - 3,000 lms**
- **4L - 4,000 lms**
- **6L - 6,000 lms**
- **8L - 8,000 lms**
- **12L - 12,000 lms**

#### Lumen Package Options

- **27 - 2700K**
- **30 - 3000K**
- **40 - 4000K**
- **50 - 5000K**

#### Color Temp Options

- **UE - Universal Voltage (120-277V)**
- **HV - High Voltage (347-480V)**

#### Voltage Options

- **BRZ - Bronze**
- **BLK - Black**
- **GPT - Graphite**
- **MSV - Metallic Silver**
- **WHT - White**
- **PLP - Platinum Plus**
- **SVG - Satin Verde Green**

#### Finish Options

- **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**

#### Controls (Choose One)

- **Standalone Controls**
- **DIM - 0-10v Dimming (from external signal)**
- **IMSBT - Integral Bluetooth Motion and Photocell Sensor max 8-24' mounting height**
- **IMSBT2 - Integral Bluetooth Motion and Photocell Sensor max 25-40' mounting height**

#### Button Type Photocells

- **PCI120 - 120V**
- **PCI208-277 - 208-277V**
- **PCI347 - 347V**

#### Lutron Limelight Controls

- **LLC - LimeLight Integral Wireless Radio Control by Lutron**
- **LLCS1 - Limelight Integral Wireless Radio Control and PIR Motion/Daylight Sensor by Lutron max 8-15' mt height**
- **LLCS2 - Limelight Integral Wireless Radio Control and PIR Motion/Daylight Sensor by Lutron 16-30' mt height**
- **LLCS3 - Limelight Integral Wireless Radio Control and PIR Motion/Daylight Sensor by Lutron 31-40' mt height**

#### Accessory Ordering Information

<table>
<thead>
<tr>
<th>Description</th>
<th>Order Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>XWM SW BLK - Surface Wiring Box (Available in black only)</td>
<td>356915BLK</td>
</tr>
<tr>
<td>FK120 - Single Fusing</td>
<td>FK120F</td>
</tr>
<tr>
<td>FK277 - Single Fusing</td>
<td>FK277F</td>
</tr>
<tr>
<td>FK347 - Single Fusing</td>
<td>FK347F</td>
</tr>
<tr>
<td>DFK208 - Double Fusing</td>
<td>DFK208F</td>
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<tr>
<td>DFK240 - Double Fusing</td>
<td>DFK240F</td>
</tr>
<tr>
<td>DFK480 - Double Fusing</td>
<td>DFK480F</td>
</tr>
</tbody>
</table>

**Footnotes:**

- 1 - Consult Factory for availability
- 2 - Not available in HV
- 3 - Consult Factory for Site Layout
- 4 - IMSBT is field configurable via the LSI app that can be downloaded from your smartphone's native app store.
- 5 - Not available in UE
- 6 - Fusing must be located in hand hole of pole or in the junction box.
- 7 - Not available with HV.

---

**Luminaire Shown with IMSBT**
**Integral Bluetooth™ Motion and Photocell Sensor (IMSBT)**

Slim low profile sensor provides multi-level control based on motion and/or daylight. Sensor controls 0-10 VDC LED drivers and is rated for cold and wet locations (-30° C to 70° C). Two unique PIR lenses are available and used based on fixture mounting height. All control parameters are adjustable via an iOS or Android App capable of storing and transmitting sensor profiles.

**Operation Modes**

Dusk to Dawn operation via integral photocell switches lights on and off based on the ambient light levels. In this mode the lights remain on all night even with no motion in the area.

Dimming operation turns the lights on to the selected high level when motion is detected and the ambient light level is below the hold off set point. Once the sensor stops detecting motion and the time delay elapses, the lights will go to the low level. If no motion is detected during the cut off time delay period the lights will completely turn off or stay on at the low level depending on settings.

**Configurations**

- Initial setup and later adjustments made via iOS and Android App.
- Sensor settings are stored and maintained in the event of a power failure.

**Motion Level** - fully adjustable from 0-100% with default at 100%. Motion Level is defined as when the sensor detects motion the dimming control output goes to the selected high light level.

**Dim Level** - fully adjustable from off, 0-100% with default at 50%. Dim level is defined as when the sensor stops detecting motion and the time delay expires the dimming control output goes down to the selected low light level.

**Default Settings**

- Motion Level - 100%
- Dim Level - 50%
- Time Delay 1 - 5 Minutes
- Time Delay 2 - 10 Minutes
- Sensor Sensitivity - Low
- Ambient Light - Disabled

**Time Delay 1** - adjustable from 1 sec to 1 hour and 45 minutes with default 5 minutes. Time delay is defined as the time period that must elapse after the last time the sensor detects motion for the lights to go to low light level.

**Time Delay 2** - the time period that must elapse after the lights go to low light level and the sensor detects no motion for the lights to turn off. This feature may be enabled or disabled. If disabled there is no cut off and the lights stay in the low light level. Adjustable from 1 sec to 8 hours and 59 minutes with default set at 10 minutes.

**Sensor sensitivity** – the response of the PIR detector to motion within the sensor’s coverage area. Adjustable from low, medium, high. Default setting is low.

**Ambient Light** – when the light level exceeds this setting the lights will turn off even if motion is detected. When the light level goes below the setting the lights will turn on even if no motion is detected. A switch will allow you to enable or disable this feature. ON <30 LUX, OFF >100 LUX.

**Sensor Configuration App**

- Range up to 65 ft. outdoor line of sight
- iOS11 or later
- Android 6.0 or later
- Password protected.
- Sensor profiles used for setting up parameters one time and then applying the profile to different sensors requiring the same settings.

---

**Configuration App**

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**IMSBT Coverage Diagrams**

- **SIDE VIEW**
- **TOP VIEW (at 8ft.)**

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**IMSBT1**

- **SIDE VIEW**
- **TOP VIEW (at 8ft.)**

---

**IMSBT2**

- **SIDE VIEW**
- **TOP VIEW (at 8ft.)**
The AirLink enabled by Synapse Wireless Lighting Control System is the perfect solution for commercial, industrial and municipal applications, such as: auto dealerships, parking lots, garages, shopping complexes and warehouses.

AirLink utilizes robust wireless communication via 2.4 GHz Self-Healing Mesh Network which not only increases reliability and accuracy of system, but also eliminates single point of failure.

The flexibility of the system make it perfect for new construction and retrofit projects. The user-friendly AirLink web application is accessible through any device with an internet connection and allows for complete customization of the system’s features.

Some capabilities of the system include: occupancy/vacancy sensing, daylight harvesting, scheduling, high-end trim, dimming, zone control, BMS integration and energy monitoring.

The AirLink System

Wireless controls & sensors

- Wireless & Override Switches
- Occupancy/Vacancy & Daylight Sensors
- AirLink-integrated Fixtures
- AirLink-compatible Fixtures
- Circuit & Zone Controllers

Centralized control & integration

- Site Manager Controller
- Gateway Module

Simple-to-use software

- WiFi, Cellular or Ethernet Connection
- AirLink Site Manger: Lighting control web app

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