



# LIGHTPLANE 1

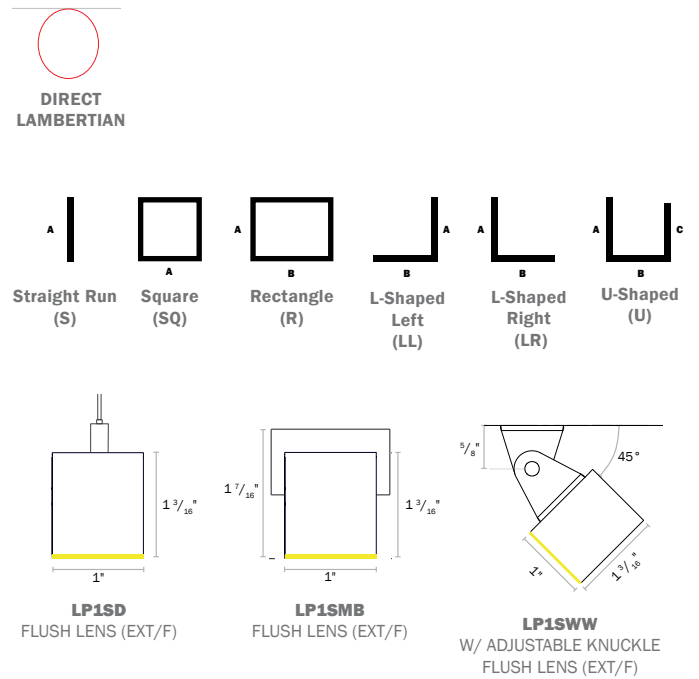
LP1 | SUSPENDED, WALL, SURFACE



## SPECIFICATIONS

|                       |   |
|-----------------------|---|
| <b>PROFILE</b>        | 1" Aperture   |
| <b>SIZES</b>          | Configurable in linear shapes and straight run sections   |
| <b>LED OUTPUT</b>     | 325 lm/ft - 550 lm/ft   |
| <b>CCT/CRI</b>        | 80/90 CRI - 2700K/3000K/3500K/4000K   |
| <b>DIMMING/DRIVER</b> | Remote Driver: 0-10V, DALI, DMX, eidoLED, Lutron®, PoE (Molex, Igor, NuLEDs). Dimming to 0% for select models |
| <b>POWER</b>          | 4.7W - 8.1W per ft  |
| <b>INPUT</b>          | 120VAC, 277VAC, or 347VAC   |
| <b>OPTICS</b>         | Direct. Flush and regressed lens options available  |
| <b>FINISHES</b>       | 16 powder coat finishes - Custom finishes also available  |
| <b>MATERIAL</b>       | 6061 Extruded Aluminum  |
| <b>ENVIRONMENT</b>    | Dry or damp locations   |

## DISTRIBUTIONS & PROFILES



Not to scale. Dimensions are nominal. Consult factory for CAD drawing



\*Safety and Performance information available on last page. Output and other specifications available on page 7.



# PRODUCT SUBMITTAL WORKSHEET

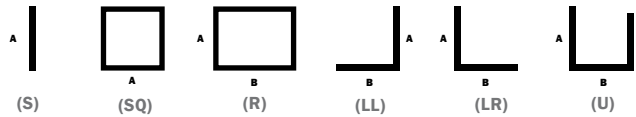
|   |   |   |   |   |   |   |    |    |    |   |
|---|---|---|---|---|---|---|----|----|----|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8a | 8b | 8c | 9 |
|---|---|---|---|---|---|---|----|----|----|---|

**EXAMPLE: LP1SD – S10 – LOW/80/3000K – V00 – EXT/R – AS – UNV – EMB/4 – N – SB – QS**

| 1. BASE MODEL (CHOOSE 1)   | 2. SHAPE/LENGTH (CHOOSE 1 & ENTER LENGTH IN FEET) – FOR CUSTOM ANGLES, CONTACT ALW  | 3. LED LAMPING* (CHOOSE 1 FOR EACH)  |                  |               |               |                           |              |                 |                           |              |                 |                          |  |                 |   |  |                 |
|--|---|--|------------------|---------------|---------------|---------------------------|--------------|-----------------|---------------------------|--------------|-----------------|--------------------------|--|-----------------|---|--|-----------------|
| QS <b>LP1SD</b> 1" Suspended, Direct<br>QS <b>LP1SI</b> 1" Suspended, Indirect<br>QS <b>LP1SMB</b> 1" Wall/Surface, Back-Mounted, Front-Facing<br>QS <b>LP1SWW</b> 1" Wall/Surface Mount with Adjustable Knuckle | QS <b>S__</b> Individual/Straight Run Section (enter length in product code above, ex. S5)<br>QS <b>SQ__</b> Square Configuration (enter side length A, ex: SQ5)<br>QS <b>R__</b> Rectangular Configuration (enter side lengths A and B, ex. R5-7)<br>QS <b>LL_</b> L-Shaped, Left Configuration (enter side lengths A and B, ex. LL5-7)<br>QS <b>LR_</b> L-Shaped, Right Configuration (enter side lengths A and B, ex. LR5-7)<br>QS <b>U_</b> U-Shaped Configuration (enter side lengths A, B, and C, ex. U5-7-4) | <table border="0"> <tr> <td><b>A. OUTPUT</b></td> <td><b>B. CRI</b></td> <td><b>C. CCT</b></td> </tr> <tr> <td>QS <b>LOW</b> (325 lm/ft)</td> <td>QS <b>80</b></td> <td>QS <b>2700K</b></td> </tr> <tr> <td>QS <b>MED</b> (450 lm/ft)</td> <td>QS <b>90</b></td> <td>QS <b>3000K</b></td> </tr> <tr> <td>QS <b>HI</b> (550 lm/ft)</td> <td></td> <td>QS <b>3500K</b></td> </tr> <tr> <td><b>CSTM_____</b> <sup>4</sup>(Enter lumens in product code above, Ex. 0100=100lm/ft)</td> <td></td> <td>QS <b>4000K</b></td> </tr> </table> | <b>A. OUTPUT</b> | <b>B. CRI</b> | <b>C. CCT</b> | QS <b>LOW</b> (325 lm/ft) | QS <b>80</b> | QS <b>2700K</b> | QS <b>MED</b> (450 lm/ft) | QS <b>90</b> | QS <b>3000K</b> | QS <b>HI</b> (550 lm/ft) |  | QS <b>3500K</b> | <b>CSTM_____</b> <sup>4</sup> (Enter lumens in product code above, Ex. 0100=100lm/ft) |  | QS <b>4000K</b> |
| <b>A. OUTPUT</b>   | <b>B. CRI</b>   | <b>C. CCT</b>  |                  |               |               |                           |              |                 |                           |              |                 |                          |  |                 |   |  |                 |
| QS <b>LOW</b> (325 lm/ft)  | QS <b>80</b>  | QS <b>2700K</b>  |                  |               |               |                           |              |                 |                           |              |                 |                          |  |                 |   |  |                 |
| QS <b>MED</b> (450 lm/ft)  | QS <b>90</b>  | QS <b>3000K</b>  |                  |               |               |                           |              |                 |                           |              |                 |                          |  |                 |   |  |                 |
| QS <b>HI</b> (550 lm/ft)   |   | QS <b>3500K</b>  |                  |               |               |                           |              |                 |                           |              |                 |                          |  |                 |   |  |                 |
| <b>CSTM_____</b> <sup>4</sup> (Enter lumens in product code above, Ex. 0100=100lm/ft)  |   | QS <b>4000K</b>  |                  |               |               |                           |              |                 |                           |              |                 |                          |  |                 |   |  |                 |

\*Lengths are nominal and may vary based on lamping and other specification selections. Consult ALW when exact lengths are required.  
 \*Shape orientation (Looking from the Ceiling down to the floor).

<sup>4</sup>For delivered lumens and watts, see 'Performance Details'  
<sup>3</sup>Consult ALW for custom lumen packages.



| 4. REMOTE DRIVER (CHOOSE 1)   | 5. LENS (CHOOSE 1)   | 6. FINISH* (CHOOSE 1)  | 7. VOLTAGE (CHOOSE 1)  |
|---|--|--|--|
| QS <b>V00</b> (0-10V, dim to 0%)<br>QS <b>V01</b> (0-10V, dim to 1%)<br>QS <b>V05</b> (0-10V, dim to 5%)<br><b>LDE1</b> (Lutron ECOSYS1, 0-10V, dim to 1%)<br><b>DALI</b> (DALI, dim to 0%)<br><b>DMX</b> (DMX, dim to 0%)<br><b>POEM</b> (POE Molex)<br><b>POEI</b> (POE IGOR)<br><b>POEN</b> (POE Nuleds)<br><b>POE<sup>2</sup></b> (POE Ready) | QS <b>EXT/F</b> Extra diffuse, flush<br><b>EXT/R</b> Extra diffuse, reveal | <b>STANDARD FINISHES</b><br>QS <b>SW</b> <input type="checkbox"/> Satin White<br>QS <b>SB</b> <input checked="" type="checkbox"/> Satin Black<br>QS <b>AS</b> <input type="checkbox"/> Aluminum Silver Anodized Effect<br>QS <b>TB</b> <input checked="" type="checkbox"/> Textured Black<br><br><b>PREMIUM FINISHES</b><br>-- See chart on page 4 for premium finishes. Manually type in the finish code (Ex: OB = Oil-Rubbed Bronze) | QS <b>UNV</b> Universal Voltage (120VAC-277VAC)<br><b>347</b> 347 Volt (Driver options may be limited. Not available with EMB) |

<sup>1</sup>See 'Driver', 'Sensor' and lamping charts for driver details and sensor compatibility, request to assist with control system integration.  
<sup>2</sup>Choose desired PoE solution not listed. Contact customer service to review and confirm the PoE system of your choice.

**SPECIAL ORDER FINISHES\***  
**RAL\_\_\_\_\_** Specify RAL Classic Color (Ex: RAL 3003)  
**CCM\_\_\_\_\_** Custom Color Match  
 \*Manually type in the finish code for special order finishes types

| 8a. EMERGENCY OPTIONS (OPTIONAL, CH. 1)   | 8b. CONTROL OPTIONS* (OPTIONAL)  | 8c. ADDITIONAL OPTIONS (OPTIONAL) | 9. QUICKSHIP OPTIONS  |
|---|--|-----------------------------------|---|
| QS <b>EMB/___</b> <sup>3</sup> Emergency Battery (indicate QTY – each battery powers 4ft. section @ 1492lm. Not available in 347 V)<br>QS <b>EMC/___</b> <sup>3</sup> Emergency Circuit (indicate QTY of 4ft sections to be illuminated by emergency circuit) | QS <b>N</b> None<br><br><b>FACTORY CONTROLS</b><br>QS <b>OS/PH/INT/___</b> Integral Occupancy/Daylight sensor<br>QS <b>OS/PH/HV/___</b> Remote Occupancy/Daylight sensor<br><br><b>NETWORK CONTROLS</b><br><i>Embedded controls below are placeholder specs. See the ALW Controls Guide to finalize your final control spec.</i><br><b>AY/xx</b> Acuity<br><b>AN/xx</b> Avi-on<br><b>CA/xx</b> Casambi<br><b>CW/xx/___</b> Cooper Wavelinx<br><b>EC/xx/___</b> Encelium<br><b>EN/xx/___</b> Enlighted<br><b>LU/xx/___</b> Lutron<br><b>NX/xx/___</b> NX Controls<br><b>WA/xx/___</b> Wattstopper | QS <b>SB</b> Seismic Bracing      | QS Select if you want your fixture to be QS<br><b>Note:</b> To be eligible for the QuickShip (QS) program, all previous selected options must also be marked QS |

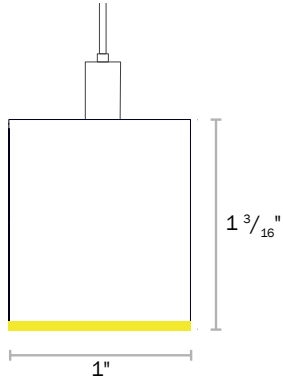
<sup>3</sup>For fixtures under 4ft in length, entire fixture will be illuminated with a proportional lumen output. Consult ALW for more details.

\*Quickship availability on occupancy and photocell daylight sensors may vary. Contact ALW for more information.  
 \*Contact ALW for Additional Zone specifications

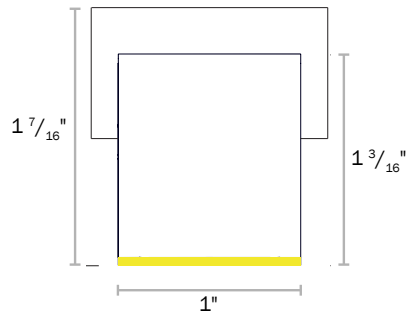
QS = QuickShip-qualifying option. For the entire luminaire configuration to be QuickShip-eligible, ALL options specified in the configuration must be ones notated with "QS".  
 NOTE: Maximum 800 ft. of QuickShip-eligible product per order.



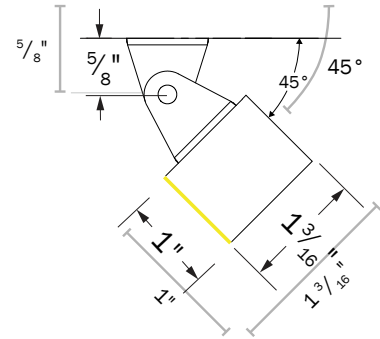
**MECHANICAL DIAGRAMS**



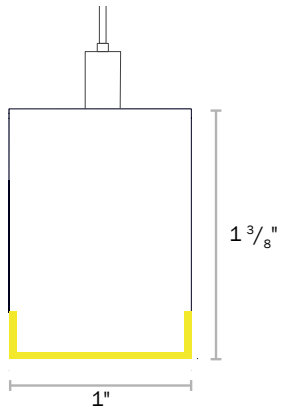
**LP1SD**  
FLUSH LENS (EXT/F)



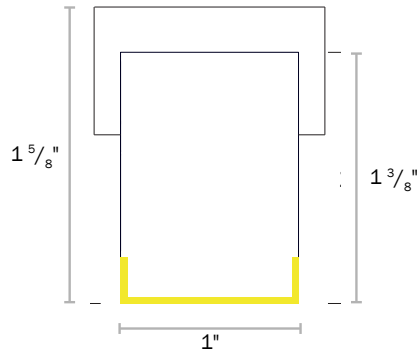
**LP1SMB**  
FLUSH LENS (EXT/F)



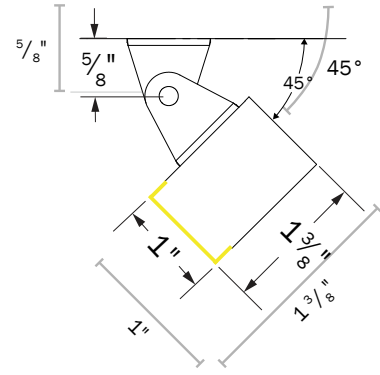
**LP1SWW**  
W/ ADJUSTABLE KNUCKLE  
FLUSH LENS (EXT/F)



**LP1SD**  
REVEAL LENS (EXT/R)

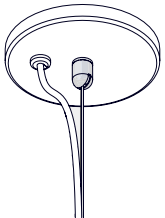


**LP1SMB**  
REVEAL LENS (EXT/R)



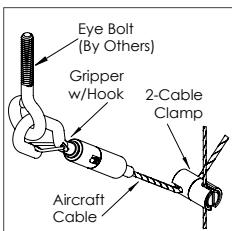
**LP1SWW**  
W/ ADJUSTABLE KNUCKLE  
REVEAL LENS (EXT/R)

**SUSPENSION MOUNTING OPTIONS**



**INCLUDED CEILING HARDWARE**

- 4.5" canopy per power feed location. Canopy finish is always white. Contact ALW for alternate colors.
- (1) Bullet mount,
- (1) 8' aircraft cable
- (1) 2" canopy (for use with T-bar mounting) per suspension point



**SEISMIC BRACING (SB)**

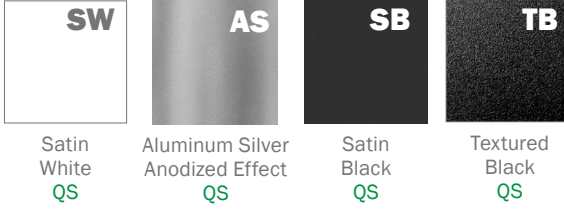
Add-on hardware includes cable gripper with hook, 2-cable clamp and specified length of aircraft cable per suspension point.



## FINISHES

Standard finishes are available at no additional charge.

### STANDARD FINISHES - QS ELIGIBLE

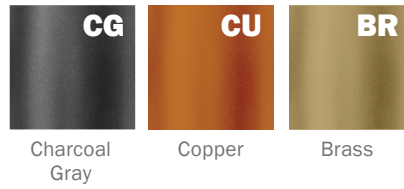


### PREMIUM FINISHES

#### BASIC POWDER COAT



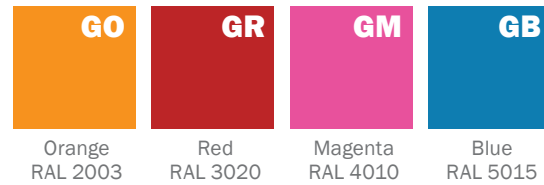
#### METALLIC POWDER COAT



#### SATIN ANODIZED EFFECT POWDER COAT



#### GLOSS POWDER COAT (80-95% GLOSS)



Contact ALW Quotes for sample paint finish swatches.

### SPECIAL ORDER FINISHES\*



#### RAL CLASSIC COLORS (80-95% GLOSS): RAL\_ \_ \_ \_

Most RAL Classic Colors are available for a minimum setup fee. On your specification submittal choose your RAL color by entering the 4-digit RAL code (Ex: RAL 3003). See [www.alw-inc.com/resources/finishes](http://www.alw-inc.com/resources/finishes)



#### CUSTOM COLOR MATCH: CCM\_ \_ \_ \_

Custom powder coat color matching is available for a premium setup fee. Consult ALW for additional information.

\*An individual setup fee will apply to each unique Special Order Finish per purchase order.  
(ex: RAL 5023 and RAL 2008 are specified for multiple line items on a purchase order. 2x setup fees will apply)

\*Printed or on-screen colors are only approximations - consult actual Color Chip Set before specifying



## PERFORMANCE DETAILS

| OUTPUT <sup>5</sup> | DELIVERED LUMENS (LM/FT) | WATTS (W/FT) | EFFICACY (LM/W) | CRI OPTIONS | CCT OPTIONS                      |
|---------------------|--------------------------|--------------|-----------------|-------------|----------------------------------|
| LOW                 | 325                      | 4.7          | Up to ~69       | 80<br>90    | 2700K<br>3000K<br>3500K<br>4000K |
| MED                 | 450                      | 6.4          |                 |             |                                  |
| HI                  | 550                      | 8.1          |                 |             |                                  |

<sup>5</sup>Performance calculations are based on the following LM-79 test: 4000K, 80CRI, HIGH output. MED and LOW values are extrapolated distributions.

## LIGHTPLANE 1 VOLTAGE DROP CHART FOR REMOTE DRIVERS - WHITE LED, 28VDC

| WIRE GAUGE | 20W<br>0.61A | 30W<br>0.91A | 40W<br>1.21A | 50W<br>1.52A | 60W<br>1.82A | 70W<br>2.12A | 80W<br>2.42A | 90W<br>2.73A | 100W<br>3.03A |
|------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|
| 18 AWG     | 84 ft.       | 53 ft.       | 38 ft.       | 28 ft.       | 22 ft.       | 18 ft.       | 15 ft.       | 12 ft.       | 10 ft.        |
| 16 AWG     | 138 ft.      | 89 ft.       | 65 ft.       | 50 ft.       | 40 ft.       | 33 ft.       | 28 ft.       | 24 ft.       | 21 ft.        |
| 14 AWG     | 224 ft.      | 147 ft.      | 108 ft.      | 85 ft.       | 69 ft.       | 58 ft.       | 50 ft.       | 43 ft.       | 38 ft.        |
| 12 AWG     | 362 ft.      | 238 ft.      | 177 ft.      | 140 ft.      | 115 ft.      | 97 ft.       | 84 ft.       | 74 ft.       | 66 ft.        |
| 10 AWG     | 580 ft.      | 384 ft.      | 286 ft.      | 227 ft.      | 188 ft.      | 160 ft.      | 139 ft.      | 122 ft.      | 109 ft.       |



## DRIVERS

| PRODUCT CODE | DESCRIPTION   |
|--------------|---|
| V00          | 0-10V dimming down to 0% (dim to off).  |
| V01          | 0-10V dimming down to 1%.   |
| V05          | 0-10V dimming down to 5% (Down to 10% for TUNE lamping).  |
| LDE1         | ECOSYS1, (LDE1) Lutron Hi-lume 1% EcoSystem LED driver with Soft-on, Fade-to-Black dimming technology |
| DALI         | DALI flicker-free dimming down to 0%.   |
| DMX          | DMX flicker-free dimming down to 0%.  |
| POEM         | POE MOLEX. Molex CoreSync PoE LED Driver dimming down to 0.1%   |
| POEI         | IGOR PoE LED Driver. Contact ALW to assist with your project.   |
| POEN         | NuLEDS PoE LED Driver. Contact ALW to assist with your project.                                       |
| POE          | PoE Ready LED Driver. Contact ALW to assist with your project.  |

\*Most drivers can be programmed to specific dimming levels if desired. Contact ALW for specific dimming level requests. ALW lighting fixtures are intended for use with a wide range of sensors, lighting controls, LED drivers, and building management systems. If there are specific components required for your application that aren't listed on this spec sheet, please contact ALW customer support today to specify a compatible solution of your choice.

| DRIVER/LED LAMPING COMPATIBILITY |             |                                   |  |
|----------------------------------|-------------|-----------------------------------|--|
|                                  | STD         | CA TITLE 24 JA8/JA10 <sup>6</sup> | IEEE P1789 & HD TV STUDIO <sup>7</sup> |
| V00                              | ●           | ●                                 |  |
| V01                              | ●           | ●                                 |  |
| V05                              | ●           | ●                                 |  |
| LDE1                             | ●           | ●                                 | ●                                      |
| DALI                             | ●           | ●                                 |  |
| DMX                              | ●           | PER REQUEST                       | PER REQUEST                            |
| POEM                             | PER REQUEST | ●                                 | ●                                      |
| POEI                             | PER REQUEST | ●                                 | ●                                      |
| POEN                             | PER REQUEST | ●                                 | ●                                      |

● - Indicates compatibility

\*Standard lamping (STD) - LOW/MED/HI

<sup>6</sup>Fixtures specified with 90CRI 2700K, 3000K, 3500K, and 4000K lamping with applicable LED drivers have the ability to conform to California Title 24 JA8 and JA10 Appendices

<sup>7</sup>The following drivers conform to IEEE P1789 Flicker Standard: 'IEEE Recommended Practices for Modulating Current in High-Brightness LEDs for Mitigating Health Risks to Viewers'. These drivers may also be installed in HD TV Studio applications utilizing high frequency camera equipment.



**PHOTOMETRICS**

| OPTIC        | POLAR PLOT (CD) | MTG HEIGHT | LIGHT LEVEL (FC) | SPACING CRITERION (SC) <sup>8</sup><br>(0° - 180°)<br>(90° - 270°) | MAX INTENSITY (CD) | OUTPUT (LM/FT) |
|--------------|-----------------|------------|------------------|--|--------------------|----------------|
| <b>EXT/R</b> |                 | 6 ft       | 9.7              | 1.32<br>1.26   | 347.4              | 550            |
|              |                 | 8 ft       | 5.4              |  |                    |                |
|              |                 | 10 ft      | 3.5              |  |                    |                |
|              |                 | 12 ft      | 2.4              |  |                    |                |
|              |                 | 14 ft      | 1.8              |  |                    |                |
|              |                 | 16 ft      | 1.4              |  |                    |                |
| <b>EXT/F</b> |                 | 6 ft       | 10.6             | 1.26<br>1.26   | 383                | 550            |
|              |                 | 8 ft       | 6                |  |                    |                |
|              |                 | 10 ft      | 3.8              |  |                    |                |
|              |                 | 12 ft      | 2.7              |  |                    |                |
|              |                 | 14 ft      | 2                |  |                    |                |
|              |                 | 16 ft      | 1.5              |  |                    |                |

\*Photometric calculations based on HI 4000K 80 CRI fixture combination. Actual results may vary in the field. For footcandle and output multipliers refer to the [ALW IES File Multipliers Chart](#)

<sup>8</sup>Spacing criterion refers to maximum distance luminaires can be spaced to provide uniform illumination on the working plane or surface.  
Luminaire spacing = Spacing Criterion (SC) x Mounting Height (MH) (ex. 1.14 (SC) x 10' (MH) = 11.4' Luminaire Spacing).



## ADDITIONAL OPTIONS & SPECIFICATIONS

### LED PERFORMANCE

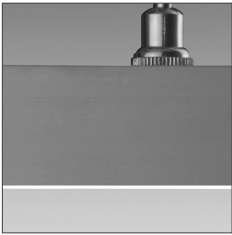
Class 2 LED remote drivers are provided with 10' plenum-rated cable.  $L_{80} > 54,000$  hours. 80+ CRI. Luminous flux +/- 5%.

### HOUSING

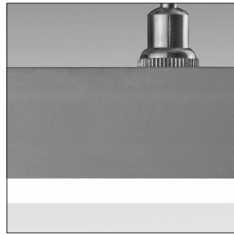
100% recyclable, extruded architectural grade 6061 aluminum with a 0.08" minimum wall thickness.

### LENS OPTIONS

Extruded, twin-layered, high-impact acrylic. EXT is white and extra diffuse with minimal- to no-source visibility.



FLUSH LENS - EXT/F



REVEAL LENS - EXT/R

### SAFETY & REGULATORY

Fixtures specified with 90CRI, 2700K, 3000K, 3500K, and 4000K lamping with applicable LED drivers have the ability to conform to **California Title 24 JA8 and JA10** Appendices. EldoLED drivers can conform to IEEE P1789 Flicker Standard: 'IEEE Recommended Practices for Modulating Current in High-Brightness LEDs for Mitigating Health Risks to Viewers'.

Contact [ALW customer support](#) today and we can help you with your project requirements.

ETL Listed (U.S. & Canada). Suitable for dry or damp locations. Conforms to UL std. 2108, Low Voltage Luminaires / Low Voltage Lighting Systems. Certified to CSA std. C22.2#250.0:2008 Ed. 3+G1;G2.

### WARRANTY

Limited 11-year warranty. Details: [alw-inc.com/warranty](http://alw-inc.com/warranty)

### OPERATING TEMPERATURE

Luminaire should be installed and operated **ONLY** in dry or damp locations where the ambient temperature ranges from -4 °F to 122 °F (-20 °C to 50 °C). Luminaire operation in environments outside the listed temperature range voids the warranty **AND** may damage the product or adversely impact lamp life, lumen output and color consistency.

### POWER CABLES

Power cables come standard in a transparent sheathing to match steel aircraft suspension cables. Please contact customer support if custom cables are required for your application. Power cables cannot be swapped in the field as it will void the ETL Safety Listing and Product Warranty.



### CONTROLS, SENSORS, & LED DRIVER

ALW lighting fixtures are intended for use with a wide range of sensors, lighting controls, LED drivers, and building management systems. Our component portfolio is continually expanding to adopt to the latest technologies and specification needs. We currently support integration with Lutron, Enlighted, EldoLED, nLight, Osram, Philips, and more. If there's a component or system needed that you don't see on the spec sheet please contact [ALW customer support](#) today so we can review your requirements.

### WEIGHT

Approximately 0.65 lbs. per linear foot (not including downlight option). Weight may vary depending on mounting, downlight, and additional options selected.