



Western Water Constructors, Inc.  
Submittal Cover

Job no. 16-05



**CONTRACT NAME:** Manteca WQCF Digester Improvements **SUB #:** 308  
**SPEC SECTION:** 16500 Lighting **REV #:** 0  
**SUBMITTAL TITLE:** Lighting – O&M **CODE:** 16500-02  
**FILE NAME:** 308-R0\_16500-02\_Lighting-OM **DATE:** 4/20/2018

**WWC REVIEW/COMMENTS:** ☒ **NO EXCEPTIONS** ☐ **EXCEPTIONS / DEVIATIONS AS NOTED**

**REVIEWED BY:** ST

**SIGNED:** Kalief

**WWC HAS REVIEWED THIS SUBMITTAL FOR CONFORMANCE WITH THE PROJECT PLANS & SPECIFICATIONS.**

**OWNER REVIEW:**

| ITEM | DESCRIPTION    | REVIEW STATUS            |                          |                          |                          |                          |
|------|----------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
|      |                | A                        | B                        | C                        | D                        | E                        |
| 1    | Lighting – O&M | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2    |                | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3    |                | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4    |                | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5    |                | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

**LEGEND:** **A** = No Exceptions Taken **B** = Make Correction Noted **C** = Correct & Resubmit  
**D** = Rejected **E** = Accepted for Record

**OWNER COMMENTS:**

**REVIEWER'S NAME:** \_\_\_\_\_

**REVIEWER'S SIGNATURE:** \_\_\_\_\_ **DATE:** \_\_\_\_\_



# Bell Electrical Supply

## O&M Manual

### Project:

**MANTECA WQCF DIGESTER**

April 2018

### Contractor:



**WESTERN WATER**  
*CONSTRUCTORS, INC.*

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# MANTECA WQCF DIGESTER



| Type | Qty | Manufacturer | Part Number                             | Volt | Lamp        |
|------|-----|--------------|-----------------------------------------|------|-------------|
|      |     |              |                                         |      |             |
|      |     |              |                                         |      |             |
| A    | 12  | HOLOPHANE    | HPLED 42 700 4K AS UN G L5 55C          | UNV  | 4000K LED   |
| A1   | 9   | HOLOPHANE    | EVT4 6000LM PCL MD MVOLT GZ10 40K 80CRI | UNV  | 4000K LED   |
| E    | 6   | ISOLITE      | ELN-12-120-2-TM-SB50W                   | 120  | (2) 50W 12V |
| B    | 8   | DIALIGHT     | STW1C2G                                 | UNV  | 5000K LED   |
| X    | 7   | HOLOPHANE    | MEX-S-1-G-SD                            | UNV  | GREEN LED   |
|      |     |              |                                         |      |             |
|      |     |              | <b>SITE</b>                             |      |             |
| B1   | 6   | DIALIGHT     | ALC7BC23DNWNGN                          | UNV  | 5000K LED   |
| P    | 2   | LSI          | XLCS FT LED HO 50 UE BLK PCI120         | UNV  | 5000K LED   |
| P    | 2   | LYTEPOLE     | 305-4012-12                             |      |             |
| P1   | 11  | LSI          | XLCM FT LED HO CW UE BLK PCI120         | UNV  | 5000K LED   |
| P1   | 4   | LYTEPOLE     | 305-4012-25                             |      |             |
| P1   | 7   | LYTEPOLE     | 305-4012-12                             |      |             |
|      |     |              |                                         |      |             |
| L    | 3   | DIALIGHT     | LTM3C4M2P                               | UNV  | 5000K LED   |
|      |     |              |                                         |      |             |

**DIGESTER**

**BULDING**



## Petrolux® LED

Hazardous Locations



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](http://www.designlights.org) to confirm which versions are qualified.

|                |                                |  |
|----------------|--------------------------------|--|
| Catalog Number | HPLED 42 700 4K AS UN G L5 55C |  |
| Notes          | Type A                         |  |

### Description

For hazardous locations where dust, dirt and moisture are a concern.

### Optics

- Prismatic borosilicate glass directs light where needed and reduces harsh glare.
- Polycarbonate lens available for those applications requiring non-glass options.
- Three distributions (Type 5 low angle, Type 5 high angle, and Type 1 long and narrow) available to maximize versatility.
- Highly engineered LED system ensures superior uniformity and maximizes spacing.

### Electrical

- 10kV/10kA surge protection is standard.
- 0-10V dimming driver is standard.
- CRI > 70 (nominal) is standard.
- 4000K or 5000K CCT available.
- Fault-tolerant LED light engine continues to provide light even in the failure of one LED.

### Mechanical

- Robust cast aluminum housing with low copper content (0.6% CU content) withstands harsh or hostile

environments.

- Universal mount (UN) for ceiling/pendant or Universal mount (US) for wall/stanchion mountings available.
- Precise number of fins dissipate maximum amount of heat and achieve up to 131°F (55°C) ambient rating.

### Listings

- UL844 listed (see matrix on page 4):  
Class 1, Division 2 Groups A, B, C, D  
Class 2, Division 1&2 Groups E, F, G  
Class 3  
Simultaneous presence, Class 1 Division 2,  
Class 2 Division 1
- IP66 rated
- NEMA 4X
- UL1598 - Wet Locations

### Warranty

5-year limited warranty. Complete warranty terms located at: [www.acuitybrands.com/CustomerResources/Terms\\_and\\_Conditions.aspx](http://www.acuitybrands.com/CustomerResources/Terms_and_Conditions.aspx)

Actual performance may differ as a result of end-user environment and application.

Actual wattage may differ by +/- 5% when operating between 120-277V +/- 10%.

### Typical Applications

- Petroleum refineries
- Ethanol facilities
- Chemical plants
- Power plants
- Textile mills
- Water and wastewater treatment facilities
- Parking garages
- Tunnels

### Dimensions: Inches (millimeters) unless otherwise noted.

Diameter: 14.76 (375)  
Depth: 13.57 (345)  
Weight: 38-45 lbs. (17-20 kg)

## ORDERING INFORMATION

Example: HPLED 70 700 5K AS UN G P1 45C GD

| HPLED  | 42                                                                                                                                                                                                                                                       | 700                                                                         | 4K                                                                                                                                                   | AS                                                                                                                       | UN                                                                               |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| Series | Number of LEDs                                                                                                                                                                                                                                           | Drive current                                                               | Color temperature                                                                                                                                    | Voltage                                                                                                                  | Mounting                                                                         |
| HPLED  | 42 42 LEDs<br>56 56 LEDs<br>70 70 LEDs<br>84 84 LEDs                                                                                                                                                                                                     | 350 350 mA <sup>1</sup><br>530 530 mA <sup>1</sup><br>700 700 mA            | 4K 4000K CCT<br>5K 5000K CCT                                                                                                                         | AS Auto sensing (120-277)<br>12 120V<br>20 208V<br>24 240V<br>27 277V<br>AH Auto sensing (347/480)<br>34 347V<br>48 480V | UN Universal (ceiling & pendant)<br>US Universal (wall & stanchion) <sup>2</sup> |
| G      | L5                                                                                                                                                                                                                                                       | 55C                                                                         |                                                                                                                                                      |                                                                                                                          |                                                                                  |
| Finish | Optics                                                                                                                                                                                                                                                   | Maximum ambient <sup>4</sup>                                                | Options                                                                                                                                              |                                                                                                                          |                                                                                  |
| G Gray | L5 Type 5, low angle, glass<br>LSH Type 5, high angle, glass<br>L1 Type 1, long and narrow, glass <sup>3</sup><br>P5 Type 5, low angle, polycarbonate<br>PSH Type 5, high angle, polycarbonate<br>P1 Type 1, long and narrow, polycarbonate <sup>3</sup> | 35C 35°C (95°F)<br>40C 40°C (104°F)<br>45C 45°C (113°F)<br>55C 55°C (131°F) | F1 Single fusing <sup>5</sup><br>F2 Double fusing <sup>6</sup><br>EG Ingress/egress marker decal<br>GD Optic guard<br>SH Uplight shield <sup>7</sup> |                                                                                                                          |                                                                                  |

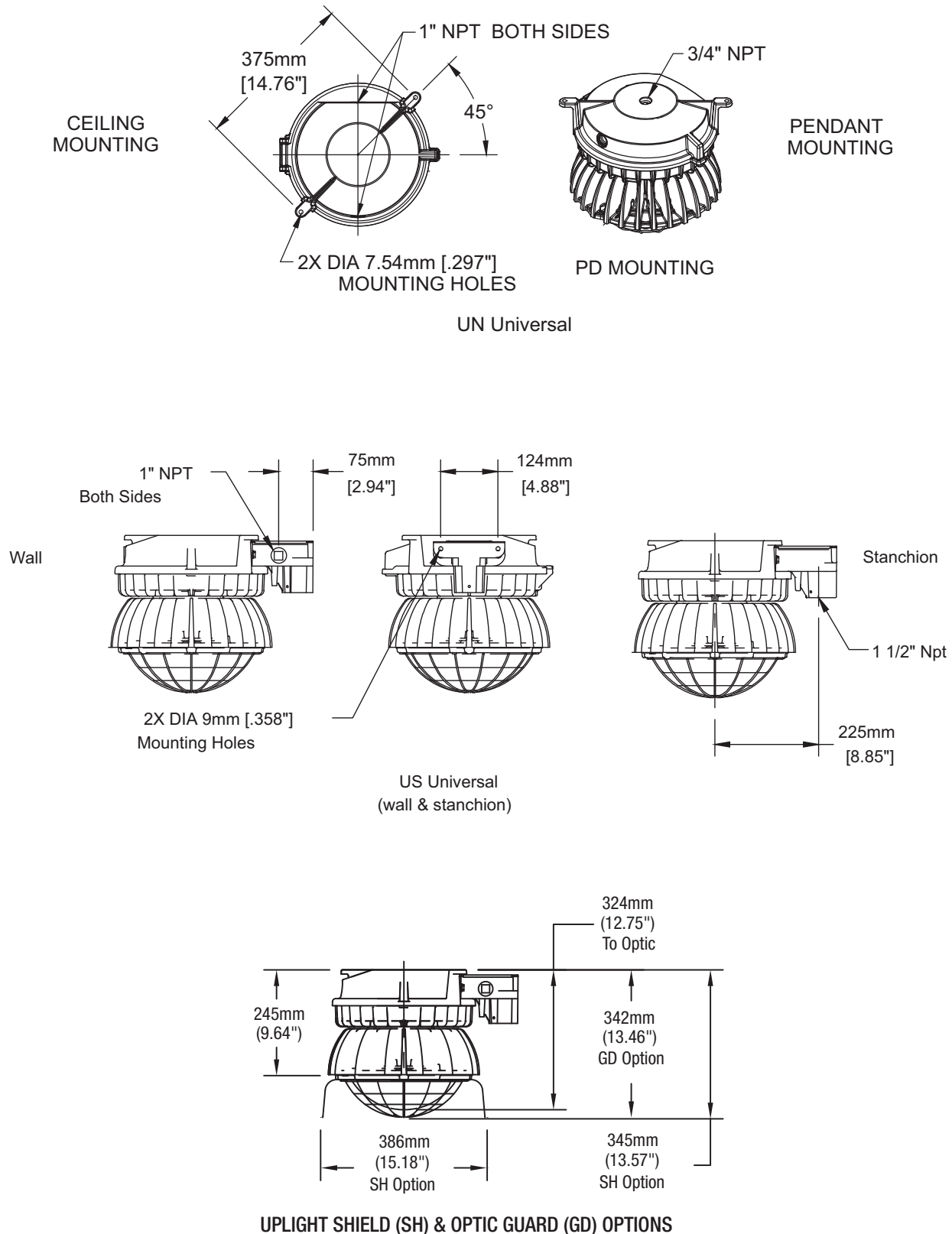
### Accessories: Order as separate catalog number.

|             |                                                       |
|-------------|-------------------------------------------------------|
| 09189-X     | Safety chain kit <sup>8</sup>                         |
| PLEDGD      | Optic guard                                           |
| PLEDSH-GA   | Uplight shield, gray                                  |
| HPLEDMI3688 | Thread lubricant (1 tube is enough for 20 luminaires) |

### Notes

- 1 Only available with 42 leds.
- 2 P3US-ARM-GR is factory installed.
- 3 N/A with 84 leds.
- 4 See matrix on page 3.
- 5 Specify voltage 12, 27, 34.
- 6 Specify voltage 20, 24, 48.
- 7 Available with L5, P5 optic only.
- 8 X signifies feet of chain.

**DIMENSIONAL DATA**



**OPERATIONAL DATA**
**Operating Characteristics**

| Package             | Ambient Rating<br>(120V - 277V)           | Ambient Rating<br>(347V / 480V)           | Distribution | Delivered Lumens<br>5000K CCT @25°C <sup>1</sup> | Delivered Lumens<br>4000K CCT @25°C <sup>1</sup> | Wattage   | LPW @<br>5000K |
|---------------------|-------------------------------------------|-------------------------------------------|--------------|--------------------------------------------------|--------------------------------------------------|-----------|----------------|
| HPLED 42 350        | -40°F to 131°F<br>(-40°C to 55°C)         | -40°F to 104°F<br>(-40°C to 40°C)         | L5           | 6,189                                            | 6,150                                            | 50        | 124            |
|                     |                                           |                                           | L5H          | 5,234                                            | 5,201                                            | 50        | 105            |
|                     |                                           |                                           | L1           | 5,066                                            | 5,035                                            | 50        | 101            |
|                     |                                           |                                           | P5           | 4,493                                            | 4,493                                            | 50        | 90             |
|                     |                                           |                                           | P5H          | 3,852                                            | 3,852                                            | 50        | 77             |
|                     |                                           |                                           | P1           | 3,772                                            | 3,772                                            | 50        | 75             |
| HPLED 42 530        | -40°F to 131°F<br>(-40°C to 55°C)         | -40°F to 104°F<br>(-40°C to 40°C)         | L5           | 8,927                                            | 8,872                                            | 74        | 121            |
|                     |                                           |                                           | L5H          | 7,550                                            | 7,503                                            | 74        | 102            |
|                     |                                           |                                           | L1           | 7,308                                            | 7,263                                            | 74        | 99             |
|                     |                                           |                                           | P5           | 6,522                                            | 6,481                                            | 74        | 88             |
|                     |                                           |                                           | P5H          | 5,592                                            | 5,557                                            | 74        | 75             |
|                     |                                           |                                           | P1           | 5,476                                            | 5,442                                            | 74        | 74             |
| <b>HPLED 42 700</b> | <b>-40°F to 131°F<br/>(-40°C to 55°C)</b> | <b>-40°F to 104°F<br/>(-40°C to 40°C)</b> | <b>L5</b>    | <b>11,315</b>                                    | <b>11,245</b>                                    | <b>98</b> | <b>115</b>     |
|                     |                                           |                                           | L5H          | 9,569                                            | 9,510                                            | 98        | 97             |
|                     |                                           |                                           | L1           | 9,263                                            | 9,205                                            | 98        | 94             |
|                     |                                           |                                           | P5           | 8,266                                            | N/A                                              | 98        | 84             |
|                     |                                           |                                           | P5H          | 7,087                                            | N/A                                              | 98        | 72             |
|                     |                                           |                                           | P1           | 6,940                                            | N/A                                              | 98        | 71             |
| HPLED 56 700        | -40°F to 122°F<br>(-40°C to 45°C)         | -40°F to 95°F<br>(-40°C to 35°C)          | L5           | 14,822                                           | 14,790                                           | 129       | 115            |
|                     |                                           |                                           | L5H          | 12,586                                           | 12,508                                           | 129       | 97             |
|                     |                                           |                                           | L1           | 12,183                                           | 12,107                                           | 129       | 94             |
|                     |                                           |                                           | P5           | 10,872                                           | 10,804                                           | 129       | 84             |
|                     |                                           |                                           | P5H          | 9,321                                            | 9,263                                            | 129       | 72             |
|                     |                                           |                                           | P1           | 9,128                                            | 9,071                                            | 129       | 71             |
| HPLED 70 700        | -40°F to 113°F<br>(-40°C to 45°C)         | -40°F to 95°F<br>(-40°C to 35°C)          | L5           | 18,309                                           | 18,195                                           | 165       | 111            |
|                     |                                           |                                           | L5H          | 15,484                                           | 15,837                                           | 165       | 94             |
|                     |                                           |                                           | L1           | 14,988                                           | 14,895                                           | 165       | 91             |
|                     |                                           |                                           | P5           | 13,375                                           | 13,292                                           | 165       | 81             |
|                     |                                           |                                           | P5H          | 11,468                                           | 11,396                                           | 165       | 69             |
|                     |                                           |                                           | P1           | 11,230                                           | 11,160                                           | 165       | 68             |
| HPLED 84 700        | -40°F to 104°F<br>(-40°C to 40°C)         | -40°F to 86°F<br>(-40°C to 35°C)          | L5           | 21,575                                           | 21,441                                           | 195       | 110            |
|                     |                                           |                                           | L5H          | 18,246                                           | 18,133                                           | 195       | 93             |
|                     |                                           |                                           | P5           | 13,375                                           | 15,663                                           | 195       | 68             |
|                     |                                           |                                           | P5H          | 11,468                                           | 13,429                                           | 195       | 69             |

**Projected Lumen Maintenance (TM-21)<sup>2</sup>**

| Package <sup>3</sup> | 0 Hours | 15,000<br>Hours | 30,000<br>Hours | 45,000<br>Hours | 60,000<br>Hours | 100,000<br>Hours |
|----------------------|---------|-----------------|-----------------|-----------------|-----------------|------------------|
| HPLED 42 350         | 1.0     | 0.96            | 0.94            | 0.93            | 0.91            | 0.88             |
| HPLED 42 530         | 1.0     | 0.96            | 0.94            | 0.93            | 0.91            | 0.88             |
| HPLED 42 700         | 1.0     | 0.96            | 0.94            | 0.93            | 0.91            | 0.88             |
| HPLED 56 700         | 1.0     | 0.95            | 0.93            | 0.91            | 0.90            | 0.85             |
| HPLED 70 700         | 1.0     | 0.95            | 0.93            | 0.91            | 0.90            | 0.85             |
| HPLED 84 700         | 1.0     | 0.95            | 0.93            | 0.91            | 0.90            | 0.85             |

**Notes**

- 1 Absolute photometry calculated in accordance with IESNA LM-79-08
- 2 Calculated using data collected according to LM-80 and represents lumen maintenance of the LED package.
- 3 Project lumen maintenance factors at max. ambient temperature per lumen package.

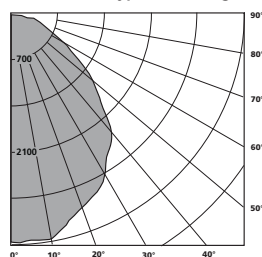
## Operating Temperature Codes for Hazardous Locations:

| Package      | Voltage Range        | Max Ambient Rating | Class 1 Division 2, Groups A, B, C, D | Class 2, Division 1 & 2, Groups E, F, G | Class 3  | Simultaneous Presence: Class 1 Division 2 & Class 2 Division 1 |
|--------------|----------------------|--------------------|---------------------------------------|-----------------------------------------|----------|----------------------------------------------------------------|
| HPLED 42 350 | 120-277<br>347 / 480 | 55°C<br>40°C       | T4<br>T4A                             | T5<br>T5                                | T5<br>T5 | T3C<br>T3C                                                     |
| HPLED 42 530 | 120-277<br>347 / 480 | 55°C<br>40°C       | T4<br>T4A                             | T5<br>T5                                | T5<br>T5 | T3C<br>T3C                                                     |
| HPLED 42 700 | 120-277<br>347 / 480 | 55°C<br>40°C       | T4<br>T4A                             | T5<br>T5                                | T5<br>T5 | T3C<br>T3C                                                     |
| HPLED 56 700 | 120-277<br>347 / 480 | 45°C<br>35°C       | T4<br>T4                              | T5<br>T5                                | T5<br>T5 | T3C<br>T3C                                                     |
| HPLED 70 700 | 120-277<br>347 / 480 | 45°C<br>35°C       | T4<br>T4                              | T5<br>T5                                | T5<br>T5 | T3C<br>T3C                                                     |
| HPLED 84 700 | 120-277<br>347 / 480 | 40°C<br>35°C       | T4<br>T4                              | T5<br>T5                                | T5<br>T5 | T3C<br>T3C                                                     |

## DISTRIBUTION DATA

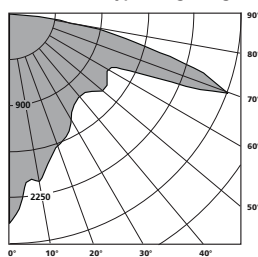
### L5/P5

Petrolux LED Type 5 Low Angle



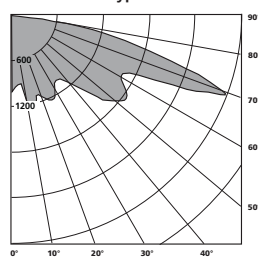
### L5H/PSH

Petrolux LED Type 5 High Angle



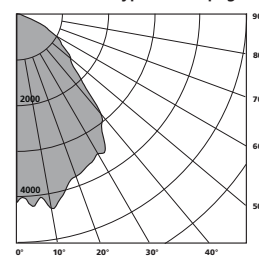
### L1/P1

Petrolux LED Type 1



### SH

Petrolux LED Type 5-0% Uplight



**READ AND FOLLOW ALL SAFETY INSTRUCTIONS!  
SAVE THESE INSTRUCTIONS AND DELIVER TO OWNER AFTER INSTALLATION**

- To reduce the risk of death, personal injury or property damage from fire, electric shock, falling parts, cuts/abrasions, and other hazards please read all warnings and instructions included with and on the fixture box and all fixture labels.
- Before installing, servicing, or performing routine maintenance upon this equipment, follow these general precautions.
- Installation and service of luminaires should be performed by a **qualified licensed electrician**.
- Maintenance of the luminaires should be performed by person(s) familiar with the luminaires' construction and operation and any hazards involved. Regular fixture maintenance programs are recommended.
- It will occasionally be necessary to clean the outside of the refractor/lens. Frequency of cleaning will depend on ambient dirt level and minimum light output which is acceptable to user. Refractor/lens should be washed in a solution of warm water and any mild, non-abrasive household detergent, rinsed with clean water and wiped dry. Should optical assembly become dirty on the inside, wipe refractor/lens and clean in above manner, replacing damaged gaskets as necessary.
- **DO NOT INSTALL DAMAGED PRODUCT!** This luminaire has been properly packed so that no parts should have been damaged during transit. Inspect to confirm. Any part damaged or broken during or after assembly should be replaced.
- Recycle: For information on how to recycle LED electronic products, please visit [www.epa.gov](http://www.epa.gov).
- These instructions do not purport to cover all details or variations in equipment nor to provide every possible contingency to meet in connection with installation, operation, or maintenance. Should further information be desired or should particular problems arise which are not covered sufficiently for the purchaser's or owner's purposes, this matter should be referred to Acuity Brands Lighting, Inc.

**WARNING  
RISK OF ELECTRIC SHOCK**

- ✓ Disconnect or turn off power before installation or servicing.
- ✓ Verify that supply voltage is correct by comparing it with the luminaire label information.
- ✓ Make all electrical and grounded connections in accordance with the National Electrical Code (NEC) and any applicable local code requirements.
- ✓ All wiring connections should be capped with UL approved recognized wire connectors.

**WARNING  
RISK OF BURN**

- ✓ Allow lamp/fixture to cool before handling. Do not touch enclosure or light source.
- ✓ Follow all manufacturer's warnings, recommendations and restrictions for: driver type, burning position, mounting locations/methods, replacement and recycling.

**CAUTION  
RISK OF INJURY**

- ✓ Wear gloves and safety glasses at all times when removing luminaire from carton, installing, servicing or performing maintenance.
- ✓ Avoid direct eye exposure to the light source while it is on.

**CAUTION  
RISK OF FIRE**

- ✓ Keep combustible and other materials that can burn, away from lamp/lens.
- ✓ Do not operate in close proximity to persons, combustible materials or substances affected by heat or drying.



### CAUTION: RISK OF PRODUCT DAMAGE

- ✓ Never connect components under load.
- ✓ Do not mount or support these fixtures in a manner that can cut the outer jacket or damage wire insulation.
- ✓ Unless individual product specifications deem otherwise: Never connect an LED product directly to a dimmer packs, occupancy sensors, timing devices, or other related control devices. LED fixtures must be powered directly off a switched circuit.
- ✓ Unless individual product specifications deem otherwise: Do not restrict fixture ventilation. Allow for some volume of airspace around fixture. Avoid covering LED fixtures with insulation, foam, or other material that will prevent convection or conduction cooling.
- ✓ Unless individual product specifications deem otherwise: Do not exceed fixtures maximum ambient temperature.
- ✓ Only use fixture in its intended location.
- ✓ Electrostatic Discharge (ESD): ESD can damage LED fixtures. Personal grounding equipment must be worn during all installation or servicing of the unit.
- ✓ Do not touch individual electrical components as this can cause ESD, shorten lamp life, or alter performance.
- ✓ Some components inside the fixture may not be serviceable. In the unlikely event your unit may require service, stop using the unit immediately and contact an ABL representative for assistance.
- ✓ Always read the fixtures complete installation instructions prior to installation for any additional fixture specific warnings.

**Please see product specific installation instructions for additional warnings or any applicable FCC or other regulatory statements.**

**Failure to follow any of these instructions could void product warranties. For a complete listing of product Terms and Conditions, please visit [www.acuitybrands.com](http://www.acuitybrands.com).**

#### Our Brands

#### Indoor/Outdoor

Lithonia Lighting  
Carandini  
Holophane  
RELOC

#### Indoor Lighting

Gotham  
Mark Architectural Lighting  
Peerless  
Renaissance Lighting  
Winona Lighting

#### Outdoor Lighting

American Electric Lighting  
Antique Street Lamps  
Hydrel  
Tersen

#### Controls

DARK TO LIGHT  
Lighting Control & Design  
ROAM  
Sensor Switch  
Synergy

**Acuity Brands Lighting, Inc. assumes no responsibility for claims arising out of improper or careless installation or handling of its products.**

ABL LED General Warnings, Form No. 503.203

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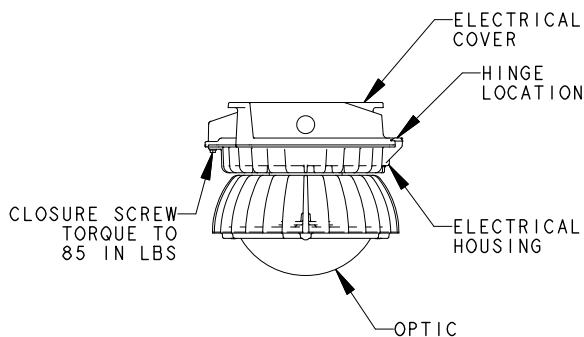
HOLOPHANE®

LED Petrolux®

Installation and  
Maintenance Manual

Hazardous Location Luminaire

Figure 1



GR1925A

1 Introduction

1.1 Product Description. Light Emitting Diode (LED) luminaire.

1.2 Alternate Information Sources.

Holophane  
Field Service Department  
P.O. Box 3004  
Newark, OH 43058-3004  
(740) 345-9631

2 Installation

2.1 Tools and Materials Required.

| TABLE 1. Installation Tools and Materials |                                           |
|-------------------------------------------|-------------------------------------------|
| DESCRIPTION                               | USE                                       |
| 1/4" socket                               | Pendant Set Screw                         |
| 5/16" socket                              | Mounting Bracket Cover                    |
| 3/8" socket                               | Closure Screw                             |
| 1/2" drive ratchet                        | 3/4" & 1" Plugs                           |
| 3/4" square drive, socket extension       | 1 1/2" Plug (Universal & Stanchion Mount) |
| soap-thickened mineral oil                | thread lubricant                          |

2.2 Luminaire Mounting

- 2.2.1 Disconnect power to luminaire location.
- 2.2.2 Provide and install a suitable mounting structure.
  - 2.2.2.1 A suitable mounting structure must be provided that supports the full weight of the luminaire in accordance with local codes.

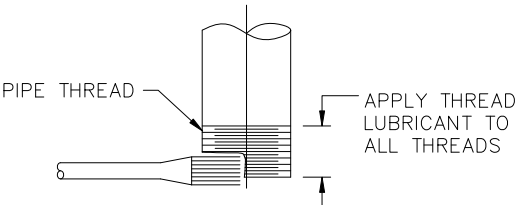
2.3 Condensation Inside Conduit

2.3.1 CABLE GLANDS NOT SUITABLE FOR USE IN HAZARDOUS LOCATIONS

3 Applying Thread Lubricant (Figures 2 and 3)

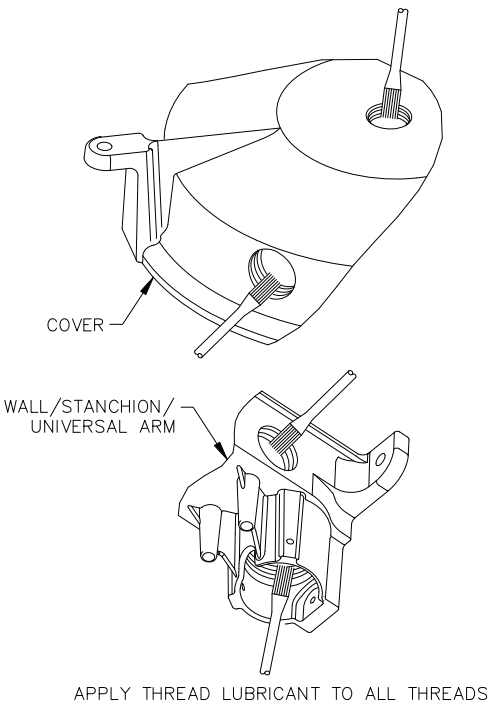
3.1 Apply petrolatum or soap thickened mineral oil to all used and unused entries. On unused entries, remove plug and apply petrolatum or soap thickened mineral oil to plug and entry threads, then reinstall plug and wipe off any excess.

Figure 2



GR1932A

Figure 3



GR1933A

## 4 Pendant Luminaire Installations (Figure 4)

### 4.1 Mounting

4.1.1 Loosen closure screw and open electrical housing. (See Figure 1)

4.1.2 Un-hinge electrical cover from luminaire.

4.1.3 Remove plastic cover over wiring chamber inside the electrical cover.

4.1.4 Back out the pendant set screw far enough to insure that it will not interfere with the pipe threads.

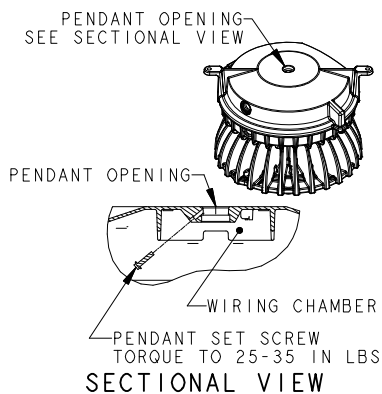
4.1.5 Remove clear dust cover from pendant entry on the outside of the electrical cover.

4.1.6 Pull supply wires through pendant entry and thread electrical cover onto pipe at least (5) full turns until secure. Mounting structure shall support the full weight of the luminaire in accordance with local codes.

4.1.7 Tighten pendant set screw, per torque specified in Figure 4.

4.1.8 Proceed to Section 4.2

Figure 4 – Pendant Mount



GR1926

### 4.2 Wiring

4.2.1 Route supply wires through pendant entry and into electrical cover wiring chamber.

4.2.2 Make appropriate supply and ground connections to the luminaire wires in accordance with local codes.

4.2.3 Re-attach plastic cover over wiring chamber inside the electrical cover.

4.2.4 Re-attach luminaire to electrical cover and tighten closure screw to torque specified in Figure 1.

## 5 Ceiling Luminaire Installations (Figure 5)

### 5.1 Mounting

5.1.1 Loosen closure screw and open electrical housing. (See Figure 1)

5.1.2 Un-hinge electrical cover from luminaire.

5.1.3 Remove plastic cover over wiring chamber inside the electrical cover.

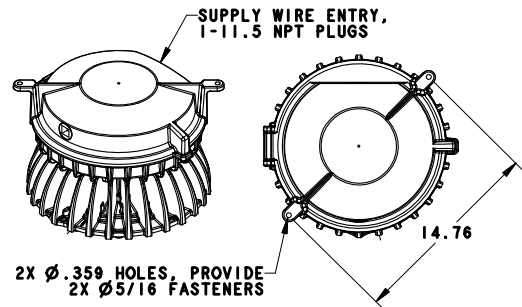
5.1.4 Remove 1-11.5 NPT plugs as needed for supply wire access.

5.1.5 Provide 2X 5/16 diameter fasteners suitable for supporting the luminaire and install electrical cover to suitable structure.

5.1.6 Re-attach luminaire to electrical cover.

5.1.7 Proceed to Section 5.2

Figure 5 – Ceiling Mount



GR1928

### 5.2 Wiring

5.2.1 Route supply wires through pipe entries and into electrical cover wiring chamber. Use wire ties rated 90°C minimum to secure the supply wires to the electrical cover such that they cannot touch any components.

5.2.2 Make appropriate supply and ground connections to the luminaire wires in accordance with local codes.

5.2.3 Re-attach plastic cover over wiring chamber inside the electrical cover.

5.2.4 Close luminaire and tighten closure screw to torque specified in Figure 1.

## 6 Wall Luminaire Installations (Figure 6)

### 6.1 Mounting

6.1.1 Loosen closure screw and open electrical housing. (See Figure 1)

6.1.2 Un-hinge electrical cover with mounting bracket from luminaire.

6.1.3 Provide 2X 5/16 diameter fasteners suitable for supporting the luminaire and install the electrical cover with mounting bracket to the structure.

6.1.4 Remove plastic cover over wiring chamber inside the electrical cover.

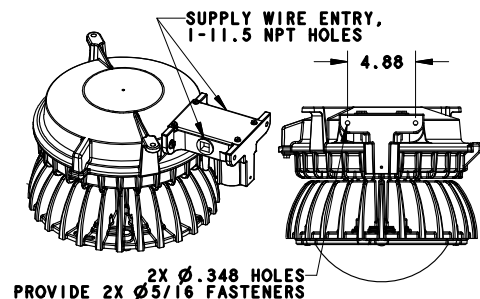
6.1.5 Remove 1-11.5 NPT plugs from the mounting bracket as needed for supply wires.

6.1.6 Remove mounting bracket plate. (See Figure 9)

6.1.7 Re-attach luminaire to electrical cover.

6.1.8 Proceed to Section 6.2.

Figure 6 – Wall Mount



GR1930

## 6.2 Wiring

**6.2.1** Feed supply wires and mounting bracket ground lead from the mounting bracket through the entry hole of the electrical cover and into the wiring chamber. Use wire ties rated 90°C minimum to secure the supply wires to the electrical cover such that they cannot touch any components. Re-attach mounting bracket plate with 4 screws provided, per torque specified in Figure 9.

**6.2.2** Make appropriate supply and ground connections to the luminaire wires in accordance with local codes.

**6.2.3** Re-attach plastic cover over wiring chamber inside the electrical cover.

**6.2.4** Close luminaire and tighten closure screw to torque specified in Figure 1.

## 7 Stanchion Luminaire Installations (Figure 7)

### 7.1 Mounting

**7.1.1** Loosen closure screw and open electrical housing. (See Figure 1)

**7.1.2** Un-hinge electrical cover with mounting bracket from luminaire.

**7.1.3** Remove plastic cover over wiring chamber inside the electrical cover.

**7.1.4** Remove mounting bracket plate. (See Figure 9)

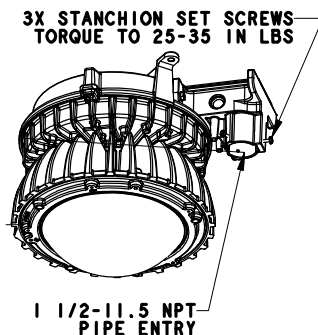
**7.1.5** Feed supply wires through the stanchion opening and into the mounting bracket.

**7.1.6** Thread mounting bracket with electrical cover onto stanchion pipe.

**7.1.7** Rotate cover to desired orientation then tighten (3) stanchion set screws, per torque specified in Figure 7.

**7.1.8** Proceed To Section 7.2

Figure 7 – Stanchion Mount



GR1931

## 7.2 Wiring

**7.2.1** Feed supply wires and mounting bracket ground lead from the mounting bracket through the entry hole of the electrical cover and into the wiring chamber. Use wire ties rated 90°C minimum to secure the supply wires to the electrical cover such that they cannot touch any components. Re-attach mounting bracket plate with 4 screws provided, per torque specified in Figure 9.

**7.2.2** Make appropriate supply and ground connections to the luminaire wires in accordance with local codes.

**7.2.3** Re-attach plastic cover over wiring chamber inside the electrical cover.

**7.2.4** Close luminaire and tighten closure screw to torque specified in Figure 1.

## 8 Universal Luminaire Installations, Mounted as Pendant or Ceiling (Figure 8)

### 8.1 Pendant Mounting

**8.1.1** Loosen closure screw and open electrical housing. (See Figure 1)

**8.1.2** Un-hinge electrical cover from luminaire.

**8.1.3** Remove plastic cover over wiring chamber inside the electrical cover.

**8.1.4** Back out the pendant set screw far enough to insure that it will not interfere with the pipe threads.

**8.1.5** Remove plug from pendant entry on the outside of the electrical cover.

**8.1.6** Pull supply wires through pendant entry and thread electrical cover onto pipe at least (5) full turns until secure. Mounting structure shall support the full weight of the luminaire in accordance with local codes.

**8.1.7** Tighten pendant set screw, per torque specified in Figure 4.

**8.1.8** Route supply wires through pendant entry and into electrical cover wiring chamber.

**8.1.9** Make appropriate supply and ground connections to the luminaire wires in accordance with local codes.

**8.1.10** Re-attach plastic cover over wiring chamber inside the electrical cover.

**8.1.11** Re-attach luminaire to electrical cover and tighten closure screw to torque specified in Figure 1.

### 8.2 Ceiling Mounting

**8.2.1** Loosen closure screw and open electrical housing. (See Figure 1)

**8.2.2** Un-hinge electrical cover from luminaire.

**8.2.3** Remove plastic cover over wiring chamber inside the electrical cover.

**8.2.4** Remove 1-11.5 NPT plugs as needed for supply wire access.

**8.2.5** Provide 2X 5/16 diameter fasteners suitable for supporting the luminaire and install electrical cover to suitable structure.

**8.2.6** Re-attach luminaire to electrical cover.

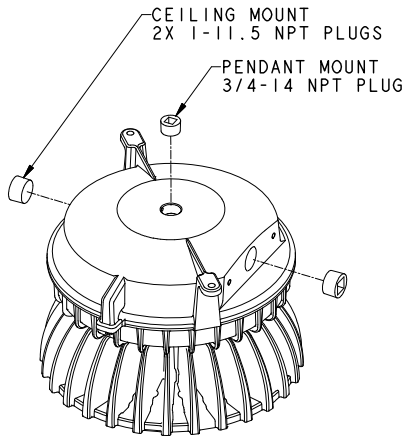
**8.2.7** Route supply wires through pipe entries and into electrical cover wiring chamber. Use wire ties rated 90°C minimum to secure the supply wires to the electrical cover such that they cannot touch any components.

**8.2.8** Make appropriate supply and ground connections to the luminaire wires in accordance with local codes.

**8.2.9** Re-attach plastic cover over wiring chamber inside the electrical cover.

**8.2.10** Close luminaire and tighten closure screw to torque specified in Figure 1.

**Figure 8 – Universal Mounted As Pendant or Ceiling**



GR2079

## 9 Universal Luminaire Installations, Mounted as Wall or Stanchion (Figure 9)

### 9.1 Wall Mounting

**9.1.1** Loosen closure screw and open electrical housing. (See Figure 1)

**9.1.2** Un-hinge electrical cover with mounting bracket from luminaire.

**9.1.3** Provide 2X 5/16 diameter fasteners suitable for supporting the luminaire and install the electrical cover with mounting bracket to the structure.

**9.1.4** Remove plastic cover over wiring chamber inside the electrical cover.

**9.1.5** Remove 1-11.5 NPT plugs from the mounting bracket as needed for supply wires.

**9.1.6** Remove mounting bracket plate.

**9.1.7** Re-attach luminaire to electrical cover.

**9.1.8** Feed supply wires and mounting bracket ground lead from the mounting bracket through the entry hole of the electrical cover and into the wiring chamber. Use wire ties rated 90°C minimum to secure the supply wires to the electrical cover such that they cannot touch any components. Re-attach mounting bracket plate with 4 screws provided, per torque specified in Figure 9.

**9.1.9** Make appropriate supply and ground connections to the luminaire wires in accordance with local codes.

**9.1.10** Re-attach plastic cover over wiring chamber inside the electrical cover.

**9.1.11** Close luminaire and tighten closure screw to torque specified in Figure 1.

### 9.2 Stanchion Mounting

**9.2.1** Loosen closure screw and open electrical housing. (See Figure 1)

**9.2.2** Un-hinge electrical cover with mounting bracket from luminaire.

**9.2.3** Remove plastic cover over wiring chamber inside the electrical cover.

**9.2.4** Remove mounting bracket plate.

**9.2.5** Feed supply wires through the stanchion opening and into the mounting bracket.

**9.2.6** Thread mounting bracket with electrical cover onto stanchion pipe.

**9.2.7** Rotate cover to desired orientation then tighten (3) stanchion set screws, per torque specified in Figure 7.

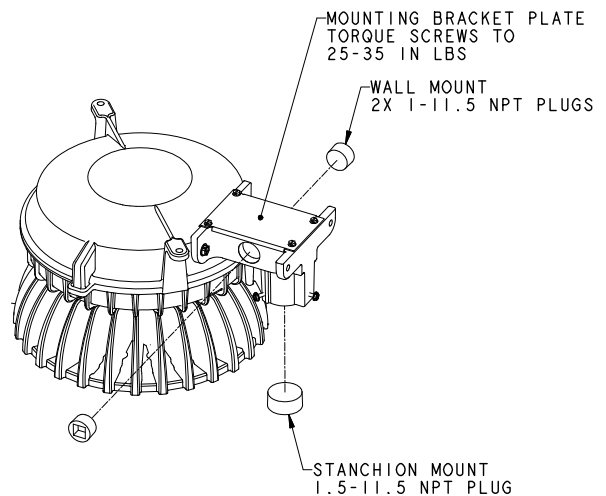
**9.2.8** Feed supply wires and mounting bracket ground lead from the mounting bracket through the entry hole of the electrical cover and into the wiring chamber. Use wire ties rated 90°C minimum to secure the supply wires to the electrical cover such that they cannot touch any components. Re-attach mounting bracket plate with 4 screws provided, per torque specified in Figure 9.

**9.2.9** Make appropriate supply and ground connections to the luminaire wires in accordance with local codes.

**9.2.10** Re-attach plastic cover over wiring chamber inside the electrical cover.

**9.2.11** Close luminaire and tighten closure screw to torque specified in Figure 1.

**Figure 9 – Universal Mounted As Wall or Stanchion**



GR2080

## 10 Dimming Option (See Figure 10)

### 10.1 Dimming Option

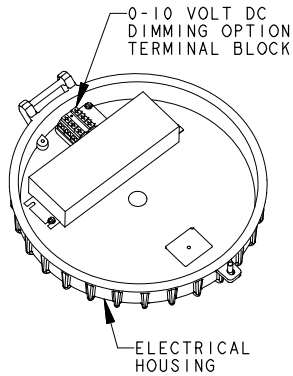
**10.1.1** Remove un-used NPT plug and provide and install separate conduit and water tight connection to luminaire for dimming supply wires.

**10.1.2** Route 0-10V DC dimming supply wires, rated 90°C minimum, to the luminaire for the dimming option. Use wire ties rated 90°C minimum to secure the supply wires to the electrical cover such that they cannot touch any components.

**10.1.3** Connect DC supply wires to terminal block located between the electrical housing hinge and the electronic driver.

**10.1.4** Close luminaire and tighten closure screw to torque specified in Figure 1.

Figure 10 – Dimming Option



GR1935A

## 11 Energize Luminaire

11.1 Energize luminaire and check for correct operation.

11.1.2 A few second delay before the LED's turn on is typical for this luminaire.

## 12 Maintenance

### 12.1 Gasket Joint Surfaces

12.1.1 Check the condition of gaskets and gasket joint surfaces. Gaskets that show signs of damage or wear and gasket joint surfaces that have debris may affect seal integrity.

CONTACT YOUR LOCAL HOLOPHANE REPRESENTATIVE FOR HOLOPHANE APPROVED REPLACEMENT PARTS

### 12.2 Cleaning

12.2.1 Disconnect power to the unit prior to opening and performing any maintenance.

12.2.2 Wipe off exterior dirt and debris using a soft clean cloth. A mild detergent and water may be used if necessary.

### CAUTION

DO NOT USE ABRASIVE CLEANERS ON OPTICAL SURFACES. THEIR USE MAY RESULT IN THE LOSS OF OPTICAL EFFICIENCY

## 12.3 Optic and Optic Joint

### CAUTION

THE GLASS OPTIC ASSEMBLY IS A NON-ACCESSIBLE JOINT FOR LED PETROLUX USED IN HAZARDOUS LISTED LOCATIONS (HPLD) AND SHALL NOT BE OPENED. REPLACE WITH NEW, SUB-ASSEMBLY BELOW ELECTRICAL COVER.

CONTACT YOUR LOCAL HOLOPHANE REPRESENTATIVE FOR HOLOPHANE APPROVED REPLACEMENT PARTS

## 12.4 Electrical Component Replacement

CONTACT YOUR LOCAL HOLOPHANE REPRESENTATIVE FOR HOLOPHANE APPROVED REPLACEMENT PARTS

12.4.1 Disconnect power to the luminaire location before maintenance. Loosen closure screw and open electrical housing. See Figure 1.

12.4.2 Tag leads before disconnecting.

12.4.3 Replace components using Holophane approved replacement parts.

12.4.4 Examine the condition of electrical cover gasket and gasket joint surfaces. See Section 12.1

12.4.5 Re-connect electrical components

12.4.6 Close luminaire and tighten closure screw to torque specified in Figure 1.

## 13 Limited Warranty and Limitation of Liability

The Holophane limited warranty and limitation of liability is published in the "Terms and Conditions" document at <http://www.holophane.com/>.



Acuity Brands Lighting, Inc.  
3825 Columbus Rd., Granville, OH 43023

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Visit our web site at [www.holophane.com](http://www.holophane.com)



## FEATURES & SPECIFICATIONS

**INTENDED USE** — Ideal for use in applications where smart, energy-efficient fixtures are desired. Typical applications include parking garage, canopy, transportation, school, hospital, cold storage and exterior retail environments where moisture or dust is a concern. Polycarbonate enclosure protects fixture while remaining easy to service and clean.

**CONSTRUCTION** — UV-stabilized, injection-molded, impact-resistant, frosted polycarbonate housing with continuous poured-in-place, closed-cell gasket. 20-gauge steel channel and channel cover. Aluminum sheet metal board plate for thermal conduction and support. Captive, tamper-resistant, polycarbonate latches standard (8 Torx T-20 tamper-resistant screws included). Stainless steel latches also available. Fixture design allows for approximately 4% up-light.

**OPTICS** — UV-stabilized, injection-molded, impact-resistant, clear transparent and frosted, polycarbonate lens with aesthetic rib detail (.080" thick). Miro 5 aluminum reflector used to achieve wide distribution.

**ELECTRICAL** — Utilizes high-output LEDs integrated on a two-layer circuit board, ensuring cool-running operation. Electronic LED driver rated for 44 input watts and is standard 0-10V dimming standard. Integral 6kV/3kA surge protection, tested in accordance to IEEE/ANSI standards. L85 at 60,000 hours.

**INSTALLATION** — Stainless steel surface spring-mounting brackets standard (2 included) allows for ceiling or suspended mount. A variety of stainless steel mounting options also available: J-box mounting and mounting brackets for suspension with aircraft cable (cable not included). Optional stainless steel V hooks available for chain hanging (chain not included). Surface conduit entry on each end and on top. For horizontal and vertical mounting on a wall, application must be under a covered ceiling and QMB option recommended. 1/2" - 3/4" KO. When wall mounted the product will be rated for damp location only.

**LISTINGS** — NSF Splash Zone 2 rated, CSA Certified to UL and C-UL standards. Minimum ambient temperature or -20°F (-29°C) to 104°F (40°C). EVT4 is wet location listed for covered ceiling applications. IP65 and IP66 rated. When wall mounted, the product will be rated for damp location only. 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](http://www.designlights.org) to confirm which versions are qualified.

**WARRANTY** — 5-year limited warranty. Complete warranty terms located at [www.acuitybrands.com/CustomerResources/Terms\\_and\\_conditions.aspx](http://www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx)

For installed Rough Service Product(s), Acuity warrants that, for the lifetime of the product(s), the polycarbonate lens and/or polycarbonate housing will withstand breakage resulting from occasional physical abuse and rough handling (the "Rough Service Warranty"), notwithstanding the vandalism exclusion set forth at [www.acuitybrands.com/CustomerResources/Terms\\_and\\_Conditions.aspx](http://www.acuitybrands.com/CustomerResources/Terms_and_Conditions.aspx)

|                |                                         |
|----------------|-----------------------------------------|
| Catalog Number | EVT4 6000LM PCL MD MVOLT GZ10 40K 80CRI |
| Notes          |                                         |
| Type           | A1                                      |

ARCHWAY™  
PASSAGE™



Rough Service Fixture

# EVT4 LED

CEILING/  
SUSPEND MOUNT



### Specifications

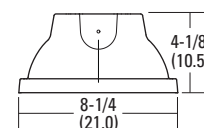
Length: 54-3/4 (139.1)

Width: 8-1/4 (21.0)

Depth: 4-1/8 (10.5)

Weight: 13.5 lbs. (5.9 kg)

All dimensions are inches (centimeters) unless otherwise indicated.



Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25°C. Specifications subject to change without notice.

### ORDERING INFORMATION

Lead times will vary depending on options selected. Consult with your sales representative.

Example: EVT4 4000LM FST MD MVOLT GZ10 40K 80 CRI

| EVT4   | 6000LM                                                                           | PCL                                                            | MD                   | MVOLT                                                                                    | GZ10               | 40K                                    | 80CRI            |
|--------|----------------------------------------------------------------------------------|----------------------------------------------------------------|----------------------|------------------------------------------------------------------------------------------|--------------------|----------------------------------------|------------------|
| Series | Nominal lumens                                                                   | Diffuser                                                       | Distribution         | Voltage                                                                                  | Driver             | Color temperature                      | CRI              |
| EVT4   | 4000LM 4,000 lumens<br>6000LM 6,000 lumens<br>12000LM 12,000 lumens <sup>1</sup> | FST Frosted polycarbonate lens<br>PCL Clear polycarbonate lens | MD Medium<br>WD Wide | MVOLT 120-277V<br>120 120V<br>277 277V<br>347 347V <sup>2</sup><br>480 480V <sup>2</sup> | GZ10 0-10V dimming | 30K 3000 K<br>40K 4000 K<br>50K 5000 K | 80 CRI<br>90 CRI |

| Options <sup>3</sup> |                                                                  |         |                                                                      |                      |                                                                                                                                    |  |  |
|----------------------|------------------------------------------------------------------|---------|----------------------------------------------------------------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------|--|--|
| SF                   | Single fuse <sup>4</sup>                                         | CS89    | 6' white cord, 16/3, no plug, wet location                           | MSI10XAWL10M DSCXAWL | Xpoint wireless integral motion sensor, On/Off operation for motion sensing, override Off due to daylight <sup>4</sup>             |  |  |
| BSL722               | Bodine® emergency LED battery pack for 0°C and up <sup>5</sup>   | CS89L12 | 12' white cord, 16/3, no plug, wet location                          | MSI10NWL             | Low mount 360 integral motion sensor, wet location, On/Off operation <sup>4</sup>                                                  |  |  |
| BSL722C              | Bodine® emergency LED battery pack for -20°C and up <sup>5</sup> | CS88    | 6' Brad Harrison 16/3 cord and straight blade plug set <sup>4</sup>  | MSI102L3VWL          | Low mount 360 integral motion sensor, wet location, High/Low operation (Bi-level) <sup>4</sup>                                     |  |  |
| WLF                  | Wet location fitting (two outboard, top) <sup>6</sup>            | CS88L12 | 12' Brad Harrison 16/3 cord and straight blade plug set <sup>4</sup> | MSI10NWL DSCNWL      | Low mount 360 integral motion sensor, wet location, On/Off operation for motion sensing, override Off due to daylight <sup>4</sup> |  |  |
| WLFIN                | Wet location fitting (two inboard, top) <sup>6</sup>             | STSL    | Stainless steel tamper resistant latches                             | XAD                  | XPoint wireless controller, 0-10V dimming <sup>9</sup>                                                                             |  |  |
| WLFEND               | Wet location fitting (one end) <sup>6</sup>                      | QMB     | Quick-mount ceiling bracket                                          |                      |                                                                                                                                    |  |  |
| WLFEND2              | Wet location fitting (both ends) <sup>6,7</sup>                  | CMB     | Chain-mount suspension bracket                                       |                      |                                                                                                                                    |  |  |
| LSC                  | Lens safety clip                                                 | JSB     | Junction box snap-bracket                                            |                      |                                                                                                                                    |  |  |
| L/SP                 | Less surge protection device                                     |         |                                                                      |                      |                                                                                                                                    |  |  |
| DL                   | Damp location <sup>8</sup>                                       |         |                                                                      |                      |                                                                                                                                    |  |  |

| Accessories: Order as separate catalog number. (Ships separately) |                                              |            |                                                                                  |
|-------------------------------------------------------------------|----------------------------------------------|------------|----------------------------------------------------------------------------------|
| VAPSMB                                                            | Surface spring-mount bracket                 | RK1 T20BIT | Hex base driver bit, Torx T20. Tamper resistant screws with center reject pin    |
| VAPQMB                                                            | Quick-mount ceiling bracket                  | RK1 T20DRV | Torx T20 screwdriver for use with tamper resistant screws with center reject pin |
| VAPCMB                                                            | Chain-mount bracket                          |            |                                                                                  |
| VAPJSB                                                            | Junction box snap bracket                    |            |                                                                                  |
| HC36                                                              | Wire hook and 36" chain set <sup>10,11</sup> |            |                                                                                  |

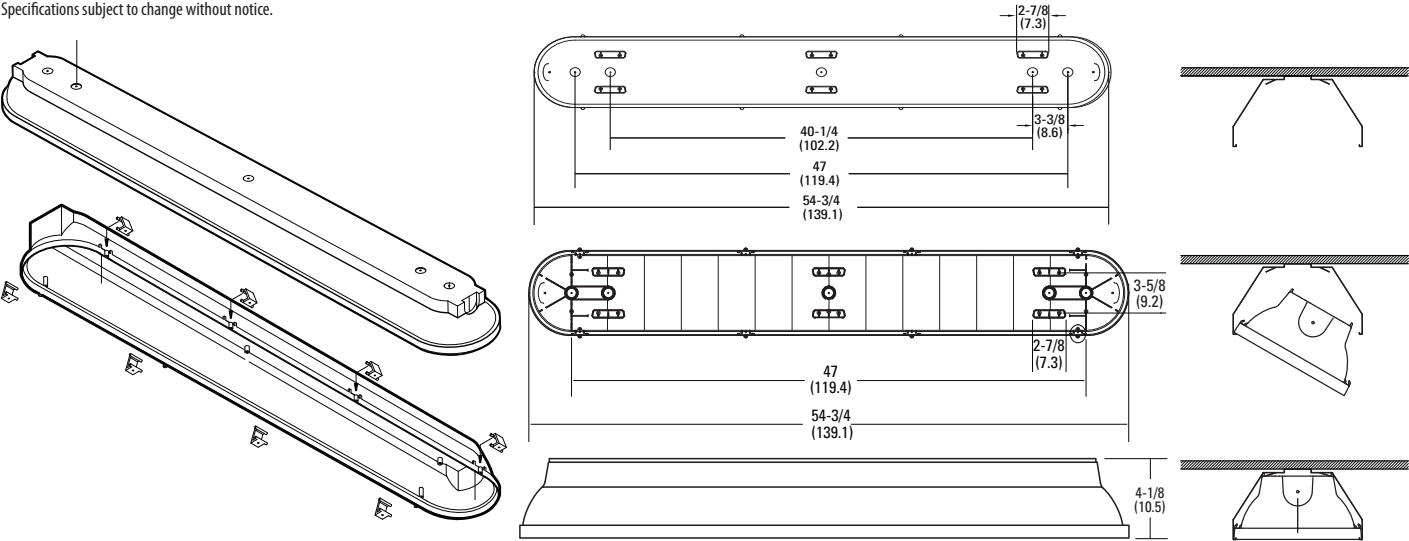
### Notes

- Not available with BSL722 or BSL722C options.
- 347V and 480V utilize a step-down transformer. 60HZ only.
- For additional options, consult factory.
- Must specify voltage.
- Not available with 12000LM lumen package. Maximum ambient temperature 30 C.
- 5/8" long NPT threaded hub.
- Not available with cord, sensor, or photocell options.
- Required when using battery packs or cord sets that are not rated for wet locations.
- Not available with BSL722 and BSL722C option.
- Requires CMB (chain mount bracket) option.
- For stainless steel, specify STS (example: HC36 STS).

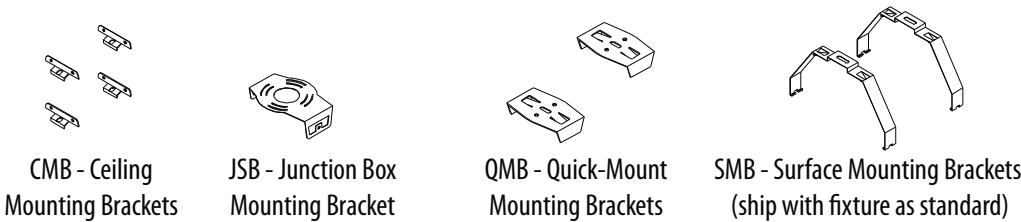
# EVT4 Linear Rough Service, LED

## DIMENSIONS

All dimensions are shown in inches (centimeters) unless otherwise noted.  
Specifications subject to change without notice.



## MOUNTING ACCESSORIES



| ARCHWAY™ PASSAGE™ LED Specification Matrix |                                                                |        |                                                                 |        |               |                                          |
|--------------------------------------------|----------------------------------------------------------------|--------|-----------------------------------------------------------------|--------|---------------|------------------------------------------|
| Nominal lumens                             | Initial delivered lumens @ 80CRI with clear polycarbonate lens |        | Initial delivered lumens @80CRI with frosted polycarbonate lens |        | Wattage @120V | Comparable source                        |
|                                            | 4000K                                                          | 5000K  | 4000K                                                           | 5000K  |               |                                          |
| 4000LM                                     | 5,208                                                          | 5,672  | 4,428                                                           | 4,822  | 44            | 2-lamp 32W T8, 1-lamp 54W T5HO, 70W HID  |
| 6000LM                                     | 6,643                                                          | 7,234  | 5,648                                                           | 6,150  | 64            | 3-lamp 32W T8, 2-lamp 54W T5HO, 100W HID |
| 12000LM                                    | 11,056                                                         | 12,040 | 9,400                                                           | 10,236 | 109           | 4-lamp 32W T8, 2-lamp 54W T5HO, 150W HID |

| Operating hours          | 0 | 10,000 | 20,000 | 25,000 | 35,000 | 50,000 | 60,000 | 75,000 | 100,000 |
|--------------------------|---|--------|--------|--------|--------|--------|--------|--------|---------|
| Lumen Maintenance Factor | 1 | .95    | .92    | .91    | .89    | .86    | .84    | .81    | .77     |

# EVT4 Linear Rough Service, LED

## SBOR - WET LOCATION Motion Sensor (see [www.sensorswitch.com](http://www.sensorswitch.com) for additional information)

- 360° coverage
- On/Off dim
- Photocell optional
- IP66 rated
- Photocell and 0-10VDC dimming options.

| Fixture sensor nomenclature                                          | SBOR sensor nomenclature |
|----------------------------------------------------------------------|--------------------------|
| For shortest lead times use one of the following SBOR configurations |                          |
| MSI10NWL                                                             | SBOR 10 OEX EB3 WH       |
| MSI102L3VWL                                                          | SBOR 10 OEX D EB3 WH 3V  |
| MSI10NWL DSCNWL                                                      | SBOR 10 OEX P EB3 WH     |



## MOTION SENSOR

### ORDERING INFORMATION

Lead times will vary depending on options selected. Consult with your sales representative.

Example: MSI6NWL

| Series                                | Lens option        | Dimming                                      | Minimum dim level | Environmental factors |
|---------------------------------------|--------------------|----------------------------------------------|-------------------|-----------------------|
| MSI Passive infrared occupancy sensor | 6 High mount, 360° | N On/off                                     | 0V Off            | WL Wet location       |
|                                       | 10 Low mount, 360° | 2LXX Bi level range <sup>1</sup>             | 1V 1VDC           |                       |
|                                       |                    | CXX Continuous dim range <sup>1</sup>        | 2V 2VDC           |                       |
|                                       |                    | XA Xpoint wireless signal to external system | 3V 3VDC           |                       |
|                                       |                    |                                              | 4V 4VDC           |                       |
|                                       |                    |                                              | 5V 5VDC           |                       |

## PHOTOCELL

### ORDERING INFORMATION

Lead times will vary depending on options selected. Consult with your sales representative.

Example: DSCNWL

| Series                                               | Dimming                                      | Environmental factors |
|------------------------------------------------------|----------------------------------------------|-----------------------|
| DSC Passive infrared occupancy sensor with photocell | N On/off                                     | WL Wet location       |
|                                                      | 2LXX Bi level range <sup>1</sup>             |                       |
|                                                      | CXX Continuous dim range <sup>1</sup>        |                       |
|                                                      | XA Xpoint wireless signal to external system |                       |

### Notes

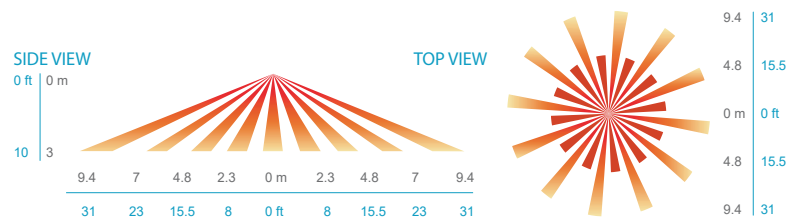
1 XX denotes dimming range.(Ex. 3V, 4V, etc.)

EVT4-LED

## COVERAGE PATTERNS

### PARKING GARAGE / LOW MOUNT APPLICATIONS

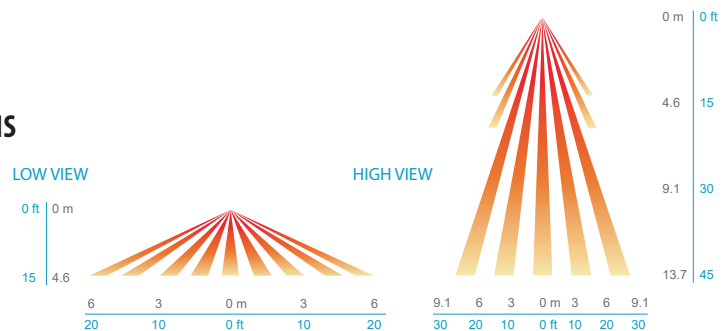
In general, the SBOR 10 is recommended for 8-15 ft (2.44-4.57 m) mounting and provides a coverage area radius for walking motion of greater than 2x the mounting height. The SBOR 10 ODP is ideal for parking garage and low pole mount applications. When mounted 10 ft high, for example, on a luminaire in a parking garage, the sensor's coverage for walking motion extends out 30 ft in a 360° pattern. This closely matches the lighting distribution of a typical parking garage luminaire. When mounted to a light pole, for example, in a parking lot or along a path, the sensor provides 270° of coverage (90° is blocked by the pole). Note, walking askew to sensor typically results in earlier detection than walking directly at sensor.



Coverage Pattern of Low Mount Lens Option (SBOR 10)

### SITE & AREA LIGHTING / HIGH MOUNT APPLICATIONS

The SBOR 6 is intended for higher pole mount applications, between 15-30 ft (4.57-9.14 m), and provides a coverage area radius for walking motion of 15-20 ft (4.57-6.10 m). When mounted to a pole the sensor provides 270° of coverage (90° is blocked by the pole).



Coverage Pattern of High Mount Lens Option (SBOR 6)

## ELN

## NEMA 12, 27-140 Watt Steel Emergency Light

### Features

- Rated for NEMA 12 applications.
- Designed for use in hostile indoor applications.
- Ideal for applications where there is dust, dirt, lint, fibers, dripping water, or condensation.
- Sealed external momentary test switch and dual diagnostic LED indicator displays AC presence and Hi-Charge status.
- Premium, fully automatic current limited, "Pulse Switching" charger provides ideal charge conditions for optimum battery performance and life.
- External 4 hole mounting system ensures proper and secure installation with minimal cabinet intrusion.
- Front access panel is hinged for trouble-free installation and ease of maintenance.
- Two fully adjustable, top mounted Par 36 style lighting heads in high impact thermoplastic are supplied as standard. Additional lamp types and wattages available for lighting heads.
- Capable of powering multiple remote heads.
- UL listed 90 minute run-time.
- Unique locking twist-collar securely holds the lens for quick and easy re-lamping.
- Low voltage cut-off prevents battery damage and ensures positive charge acceptance following an extended discharge.
- Self-Test / Self-Diagnostic monitoring available.
- Maintenance free, sealed Lead Calcium battery or Nickel Cadmium battery.
- Short circuit battery protection.
- Brownout detection ensures emergency operation during periods of low line voltage
- Line-latch prevents unnecessary discharge of battery during installation. Loads will not illuminate until after application of utility power.
- Key hole mounting slots and conduit knockouts are provided for additional mounting possibilities.
- 120/277 VAC field-selectable inputs.

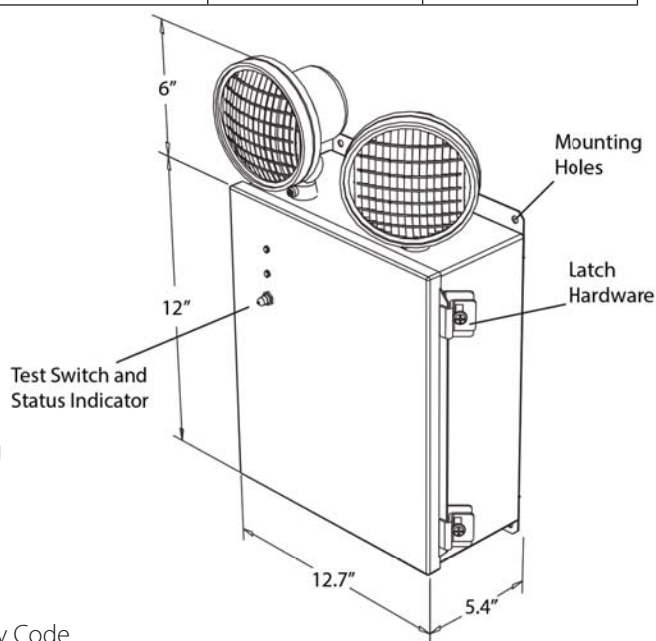
### Construction

- 16 gauge steel housing with full welded corners.
- Durable gray powder-coat finish.
- Fully gasketed to meet the requirements of NEMA 12 applications.



**Ordering Information**
**Lamp Chart**

| Lamp                         | 6V                     | 12V                          | 24V           |
|------------------------------|------------------------|------------------------------|---------------|
| Incandescent                 | 9W, 12W, 18W, 25W      | 9W, 12W, 18W, 25W            | 9W, 18W       |
| Halogen (H)                  | 8W, 10W, 12W, 20W      | 8W, 12W, 20W, 35W, 55W       | 12W, 20W, 70W |
| Sealed Beam<br>Tungsten (SB) | 8W, 12W, 18W, 25W, 30W | 12W, 18W, 25W, 30W, 35W, 50W | N/A           |
| Sealed Beam<br>Halogen (SBH) | 8W, 12W, 20W           | 8W, 12W, 30W                 | N/A           |


**Temperature Rating**

- From 32°F to 113°F

**Approvals**

- UL924
- NEMA 12
- NFPA 101 Life Safety Code
- NFPA 70-NEC
- OSHA
- NAFTA

**Warranty**

- Isolite offers a 3-year limited warranty. For further details, refer to General Warranty and Obligations in the Isolite manual or on our website. Lamps not warranted.

**Series**
**ELN 6**
**ELN 12**
**ELN 24**
**Lead Calcium Capacity**
**LC27** = 27 Watt (6V)

**LC36** = 36 Watt (6V, 12V)

**LC60** = 60 Watt (6V, 12V)

**LC72** = 72 Watt (6V, 12V)

**LC100** = 100 Watt (6V)

**LC120** = 120 Watt (6V, 12V)

**LC140** = 140 Watt (12V)

**NiCad Capacity**
**NC22** = 22 Watt (6V)

**NC42** = 42 Watt (6V, 12V)

**NC54** = 54 Watt (6V)

**NC90** = 90 Watt (6V, 12V)

**NC100** = 100 Watt (24V)

**NC130** = 130 Watt (12V)

**Heads**
**0** = No heads

**1** = 1 Head

**2** = 2 Heads

**Head Mounting**
**TM** = Top Mount

**SM** = Side Mount

**FM** = Front Mount

**Lamps**

See Lamp Chart on left  
(Indicate if H, SB, or SBH)

**EXAMPLE:** **H8W** = Halogen 8W

**18W** = Standard Incandescent 18W

**Options**
**SD** = Self Diagnostic

**IR** = Infra-Red Testing

**TLRT** = Remote Control for IR

**V** = Voltmeter

**A** = Ammeter

**TP** = Tamper Proof Screws

**IH** = Internal Heater

**TD** = Time Delay

**CS** = 120V Cord Set

**FP** = Food Prep Lens (Par 36)

**P18** = Par 18 Heads

**MH** = Metal Heads

TYPE: B # STW1C2G



- 7 @ New digester control building exterior
- 1 @ Existing digester control building exterior



Patent Pending

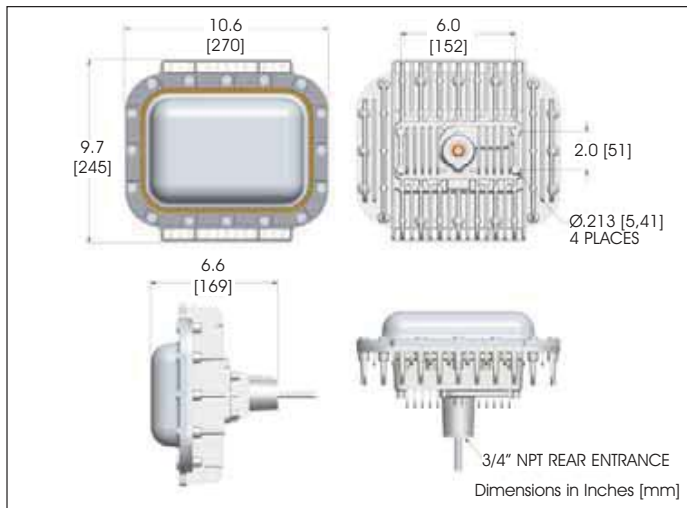
DuroSite® LED Area Light - UL / CSA





Patent Pending

## DuroSite® LED Area Light



### Certifications

- UL 1598/A
- CSA22.2
- ABS Design Assessed: # 12-HS942957-PDA
- Nema 4X
- IP 66

### Features & Benefits

- L70 rated for >100,000 hours @ 25°C ambient
- 5 year full performance warranty
- Instant on/off operation
- Superior color rendering index compared to HPS, LPS, MV
- Mercury free
- Resistant to shock and vibration
- Temperature compensation technology for longer life
- Factory sealed
- Wide Throw (Aisle Way) Optic model available

### Application:

The DuroSite® LED Area Light represents the future of energy efficient facility illumination for industrial applications worldwide. The lighting fixture consumes at least 50% less energy than traditional HID light sources, while reducing maintenance and carbon emissions. This light incorporates cutting edge LED technology along with proprietary optics to achieve area lighting comparable with other traditional light sources. Whether your application is in a work area or any other application, this fixture offers improved performance across the board.

### Mechanical Information

|                  |                                                                                    |
|------------------|------------------------------------------------------------------------------------|
| Fixture Weight:  | 10 lbs (4.5 kg) - Polycarbonate lens models<br>12 lbs (5.5 kg) - Glass lens models |
| Shipping Weight: | 12 lbs (5.5 kg) - Polycarbonate lens models<br>14 lbs (6.3 kg) - Glass lens models |
| Mounting:        | (1) Threaded 3/4" NPT rear<br>(Units with retrofit adapter also available)         |
| Cabling:         | 10' (3.5m) STOW Power Cord                                                         |

### Electrical specifications

|                             |                                                                                        |
|-----------------------------|----------------------------------------------------------------------------------------|
| Operating Voltage:          | 100 - 277V AC, 50/60 Hz or<br>347 - 480V AC, 50/60 Hz                                  |
| Power Consumption:          | See ordering information                                                               |
| Operating Temp:             | -40°F to +149°F (-40°C to +65°C)                                                       |
| Noise Requirements/<br>EMC: | FCC Title 47, Subpart B, Section 15, class<br>A device. RF Immunity; 10V/m, 80MHz-1GHz |

### Surge Protection

|                        |                                        |
|------------------------|----------------------------------------|
| 100 - 277V AC 50/60Hz: | 1 kV line to line, 2 kV line to ground |
| 347 - 480V AC 50/60Hz: | 6 kV line to line, 6 kV line to ground |

### THD

|                        |      |
|------------------------|------|
| 100 - 277V AC 50/60Hz: | <20% |
| 347 - 480V AC 50/60Hz: | <20% |

|               |       |
|---------------|-------|
| Power Factor: | > 0.9 |
|---------------|-------|

### Construction

|          |                                                                                   |
|----------|-----------------------------------------------------------------------------------|
| Housing: | Powder coated copper free aluminum                                                |
| Finish:  | Polyester / epoxy powder coat for superior<br>corrosion resistance, gray RAL 7040 |
| Lens:    | Hard coated polycarbonate<br>(Glass lens also available)                          |

### Photometric Information

|               |                                                                               |
|---------------|-------------------------------------------------------------------------------|
| CRI:          | 70                                                                            |
| CCT Standard: | 5,000K (cool white)<br>4,000K (neutral white)                                 |
| Optics:       | 180° forward throw<br>360° circular pattern<br>Wide Throw (Aisle Way) pattern |
| IES Files:    | Available upon request                                                        |

All values typical unless otherwise stated  
All Lumen Values are typical (tolerance +/- 10%)

## Ordering Information

| Part Number          | Voltage <sup>1</sup> | Lens          | Optical Pattern <sup>1</sup> | CCT <sup>1</sup> | Lumens       | Wattage   | LPW        |
|----------------------|----------------------|---------------|------------------------------|------------------|--------------|-----------|------------|
| 100 - 277V AC models |                      |               |                              |                  |              |           |            |
| STWFC2G              | 100 - 277V AC        | Glass         | 360                          | CW               | 7,250        | 69        | 105        |
| STW9C2G              | 100 - 277V AC        | Glass         | 360                          | CW               | 6,000        | 58        | 103        |
| STW5C2G              | 100 - 277V AC        | Glass         | 360                          | CW               | 5,200        | 48        | 108        |
| STW3C2G              | 100 - 277V AC        | Glass         | 360                          | CW               | 4,100        | 38        | 108        |
| <b>STW1C2G</b>       | <b>100 - 277V AC</b> | <b>Glass</b>  | <b>360</b>                   | <b>CW</b>        | <b>2,200</b> | <b>21</b> | <b>105</b> |
| STWFC2N              | 100 - 277V AC        | Polycarbonate | 360                          | CW               | 6,750        | 69        | 98         |
| STW9C2N              | 100 - 277V AC        | Polycarbonate | 360                          | CW               | 6,000        | 58        | 103        |
| STW5C2N              | 100 - 277V AC        | Polycarbonate | 360                          | CW               | 5,000        | 48        | 104        |
| STW3C2N              | 100 - 277V AC        | Polycarbonate | 360                          | CW               | 4,000        | 38        | 105        |
| STW1C2N              | 100 - 277V AC        | Polycarbonate | 360                          | CW               | 2,200        | 21        | 105        |
| STWEC2G              | 100 - 277V AC        | Glass         | 180                          | CW               | 6,750        | 69        | 98         |
| STW8C2G              | 100 - 277V AC        | Glass         | 180                          | CW               | 5,700        | 58        | 97         |
| STW4C2G              | 100 - 277V AC        | Glass         | 180                          | CW               | 4,700        | 48        | 98         |
| STW2C2G              | 100 - 277V AC        | Glass         | 180                          | CW               | 3,700        | 38        | 97         |
| STW0C2G              | 100 - 277V AC        | Glass         | 180                          | CW               | 2,200        | 21        | 105        |
| STWEC2N              | 100 - 277V AC        | Polycarbonate | 180                          | CW               | 6,500        | 69        | 94         |
| STW8C2N              | 100 - 277V AC        | Polycarbonate | 180                          | CW               | 5,600        | 58        | 97         |
| STW4C2N              | 100 - 277V AC        | Polycarbonate | 180                          | CW               | 4,700        | 48        | 98         |
| STW2C2N              | 100 - 277V AC        | Polycarbonate | 180                          | CW               | 3,700        | 38        | 97         |
| STW0C2N              | 100 - 277V AC        | Polycarbonate | 180                          | CW               | 2,200        | 21        | 105        |
| STWWC2N              | 100 - 277V AC        | Polycarbonate | Wide Throw                   | CW               | 4,100        | 60        | 68         |

<sup>1</sup>180° optical pattern models are optimized for a 45° mounting angle

<sup>2</sup>Part numbers listed in the above table are cool white. For neutral white model replace the 5th character with **N** Ex: STW2**C**2N becomes STW2**N**2N

<sup>3</sup>Part numbers listed in the above table are 100-277V AC. For 347-480V AC model replace the 6th character with **2** Ex: STW2**C**2N becomes STW2**C****2**N

For Dialight's complete list of DLC qualified products, please click this link: [www.dialight.com/Assets/News\\_And\\_Events/DLC\\_Part\\_Number\\_List.xls](http://www.dialight.com/Assets/News_And_Events/DLC_Part_Number_List.xls)



7 @ New digester control building exterior each  
1 @ Existing digester control building exterior

## Mounting Options

|                                                                                     | Part Number        | Description                                                                    | Kit Includes                                                                                        |
|-------------------------------------------------------------------------------------|--------------------|--------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
|    | HZXSTAN100S        | 1.00" (1.315" Pole OD) Slip-Fit Stanchion Mount Junction Box                   | Junction box<br>Mounting hardware<br>Cable gland<br>(requires bracket HZXW3 or HZXW7 not included ) |
|                                                                                     | HZXSTAN125S        | 1.25" (1.660" Pole OD) Slip-Fit Stanchion Mount Junction Box                   |                                                                                                     |
|                                                                                     | HZXSTAN150S        | 1.50" (1.900" Pole OD) Slip-Fit Stanchion Mount Junction Box                   |                                                                                                     |
|                                                                                     | HZXSTAN200S        | 2.00" (2.375" Pole OD) Slip-Fit Stanchion Mount Junction Box                   |                                                                                                     |
|                                                                                     | HZXSTAN100T        | 1.00" NPT (1.315" Pole OD) Threaded Stanchion Mount Junction Box               |                                                                                                     |
|                                                                                     | HZXSTAN125T        | 1.25" NPT (1.660" Pole OD) Threaded Stanchion Mount Junction Box               |                                                                                                     |
|                                                                                     | HZXSTAN150T        | 1.50" NPT (1.900" Pole OD) Threaded Stanchion Mount Junction Box               |                                                                                                     |
|                                                                                     | HZXSTAN200T        | 2.00" NPT (2.375" Pole OD) Threaded Stanchion Mount Junction Box               |                                                                                                     |
|    | HZJB075            | 0.75" Ceiling / Wall / Pole Mount Junction Box                                 | Junction box                                                                                        |
|                                                                                     | HZJB100            | 1.00" Pole Mount Junction Box                                                  |                                                                                                     |
|                                                                                     | HZJB125            | 1.25" Pole Mount Junction Box                                                  |                                                                                                     |
|                                                                                     | HZJB150            | 1.50" Pole Mount Junction Box                                                  |                                                                                                     |
|    | <b>HZXJB075PC1</b> | <b>0.75" Ceiling / Wall / Pole Mount Junction Box - with 120V AC Photocell</b> | <b>NEED 8</b><br>Junction box<br>120V AC photocell                                                  |
|                                                                                     | HZXJB100PC1        | 1.00" Pole Mount Junction Box - with 120V AC Photocell                         |                                                                                                     |
|                                                                                     | HZXJB125PC1        | 1.25" Pole Mount Junction Box - with 120V AC Photocell                         |                                                                                                     |
|                                                                                     | HZXJB150PC1        | 1.50" Pole Mount Junction Box - with 120V AC Photocell                         |                                                                                                     |
|    | HZXW3              | Stainless steel bracket                                                        | Bracket<br>Mounting hardware                                                                        |
|                                                                                     | HZXW7              | Aluminum bracket                                                               |                                                                                                     |
|   | HZXW4              | Stainless steel bracket with pipe clamp                                        | Bracket<br>Pipe clamp<br>Mounting hardware                                                          |
|                                                                                     | HZXW8              | Aluminum bracket with pipe clamp                                               |                                                                                                     |
|  | HZXSAFEKIT         | Safety cable kit                                                               | 2 Eyelets<br>2 Safety cables<br>Mounting Hardware                                                   |
|  | HZXSAFETABS        | Safety Tabs                                                                    | 2 Eyelets<br>Mounting Hardware                                                                      |

## Mounting Options

Conduit



Pipe Clamp



Stanchion



Retrofit Adapter



Junction Box



## Retrofit Options

(Available factory installed on fixtures)

|                                                                                   | Part Number | Description                                             | Kit Includes        |
|-----------------------------------------------------------------------------------|-------------|---------------------------------------------------------|---------------------|
|  | HZXTHAP     | Retrofit adapter<br>(see chart below for compatability) | Retrofit wiring box |
|  | HZXTHCH     | Retrofit adapter<br>(see chart below for compatability) | Retrofit wiring box |
|  | HZXTHKL     | Retrofit adapter<br>(see chart below for compatability) | Retrofit wiring box |

\*STWXXXX models can be ordered with factory installed retrofit adapter by adding **C**, **A**, or **K** to the end of the part number. STW8C2N becomes STW8C2N**C**.  
For more information please refer to [www.dialight.com/assets/brochures\\_and\\_catalogs/illumination/matfhzralx001.pdf](http://www.dialight.com/assets/brochures_and_catalogs/illumination/matfhzralx001.pdf)

## Mounting Compatibility

| HZXTHAP  |         |          |           |
|----------|---------|----------|-----------|
| Pendant  | Ceiling | Wall     | Stanchion |
| KPA-75   | KPC-75  | KPWB-75  | KPS-125   |
| KPA-100  | KPC-100 | KPWB-100 | KPS-150   |
| KPAF-75  |         |          | KPST-125  |
| KPAF-100 |         |          | KPST-150  |
| KPCH-75  |         |          |           |
| KPCH-100 |         |          |           |

| HZXTHCH |         |      |           |            |
|---------|---------|------|-----------|------------|
| Pendant | Ceiling | Wall | Stanchion | Quad Mount |
| APM2    | CM2     | TWM2 | JM5       | QM25       |
| APM3    | CM3     | TWM3 | PM5       |            |
| HPM2    |         |      |           |            |

| HZXTHKL |         |       |           |
|---------|---------|-------|-----------|
| Pendant | Ceiling | Wall  | Stanchion |
| VMA2B   | VMX2B   | VMB2B | VMD4B     |
| VMA3B   | VMX3B   | VMB3B | VMD5B     |
| VMC2B   | VMX6B   |       | VMS5B     |
| VMC3B   | VMX7B   |       |           |
| VMF2B   | VMX8B   |       |           |
| VMF3B   | VMX9B   |       |           |

## HZXSTANXXXX

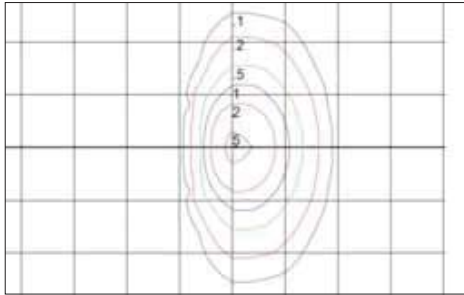


## Mounting Height

| Lumens | Wattage | lm/W | Mounting Heights                                        |
|--------|---------|------|---------------------------------------------------------|
| 7,000  | 69      | 101  | <div> <div>25'</div> <div>↕</div> <div>10'</div> </div> |
| 6,000  | 58      | 103  |                                                         |
| 5,000  | 48      | 104  |                                                         |
| 4,000  | 38      | 105  |                                                         |
| 2,200  | 21      | 105  |                                                         |

### Iso-Illuminance

STW0C2N



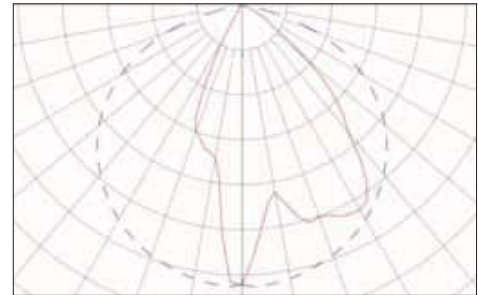
Examples shown are mounted at 15 ft  
Distance of grid is equal to Mounting Height

### 180° Pattern

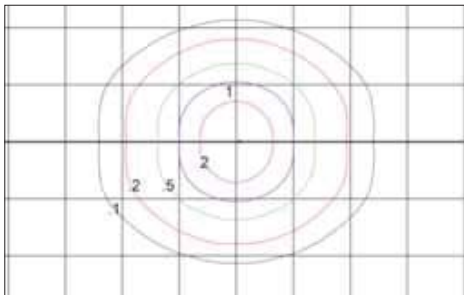
| Mounting Height | Multiplier |
|-----------------|------------|
| 10'             | 2.250      |
| 15'             | 1.000      |
| 20'             | 0.563      |
| 25'             | 0.360      |

### Candela Plots

180° Pattern Mounted at 45°



STW1C2N

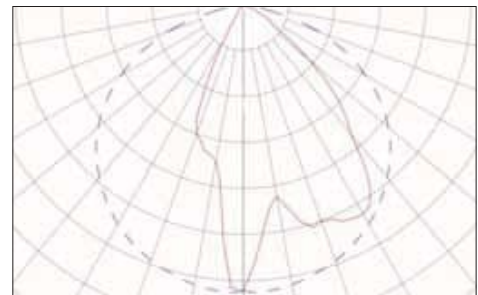


Examples shown are mounted at 15 ft  
Distance of grid is equal to Mounting Height

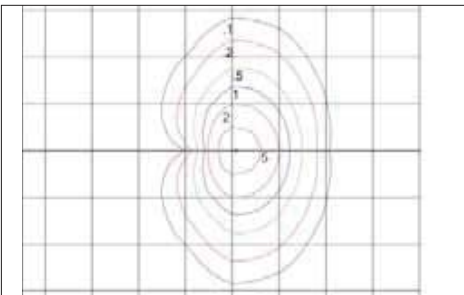
### 360° Pattern

| Mounting Height | Multiplier |
|-----------------|------------|
| 10'             | 2.250      |
| 15'             | 1.000      |
| 20'             | 0.563      |
| 25'             | 0.360      |

360° Pattern Mounted at 45°



STW2C2N

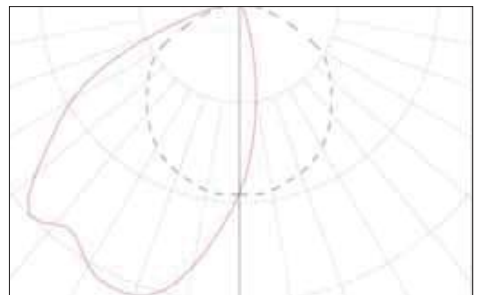


Examples shown are mounted at 15 ft  
Distance of grid is equal to Mounting Height

### 180° Pattern

| Mounting Height | Multiplier |
|-----------------|------------|
| 10'             | 2.250      |
| 15'             | 1.000      |
| 20'             | 0.563      |
| 25'             | 0.360      |

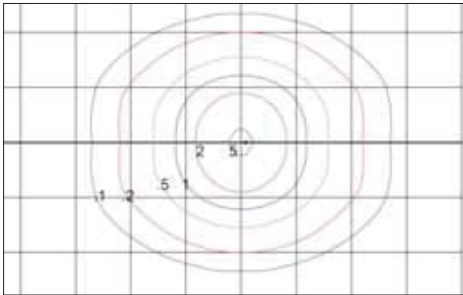
180° Pattern Mounted at 45°



## Mounting Height

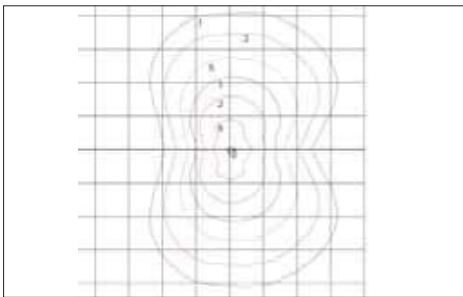
### Iso-Illuminance

STW3C2N



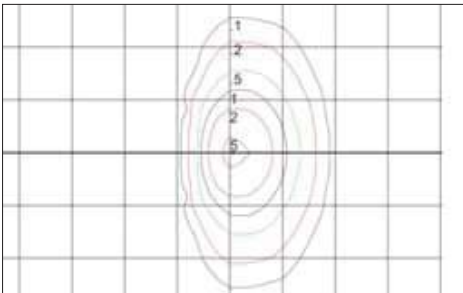
Examples shown are mounted at 15 ft  
Distance of grid is equal to Mounting Height

STWWC2N



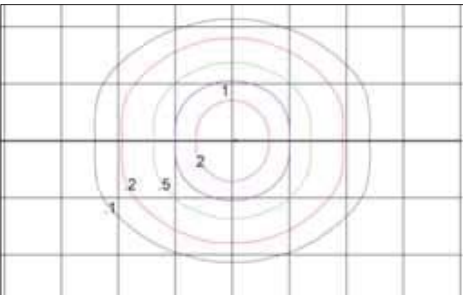
Examples shown are mounted at 15 ft  
Distance of grid is equal to Mounting Height

STW4C2N



Examples shown are mounted at 20 ft  
Distance of grid is equal to Mounting Height

STW5C2N



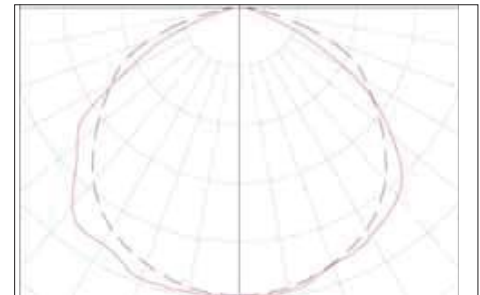
Examples shown are mounted at 20 ft  
Distance of grid is equal to Mounting Height

### 360° Pattern

| Mounting Height | Multiplier |
|-----------------|------------|
| 10'             | 2.250      |
| 15'             | 1.000      |
| 20'             | 0.563      |
| 25'             | 0.360      |

### Candela Plots

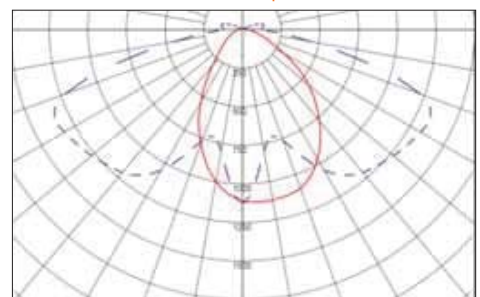
360° Pattern Mounted at 45°



### Wide Throw pattern

| Mounting Height | Multiplier |
|-----------------|------------|
| 10'             | 2.250      |
| 15'             | 1.000      |
| 20'             | 0.563      |
| 25'             | 0.360      |

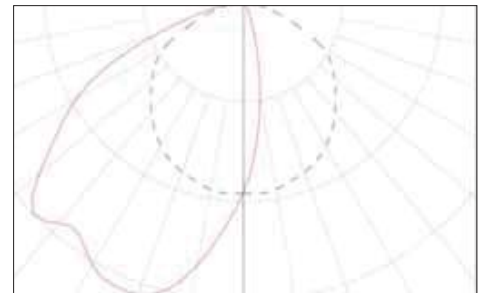
Wide Throw pattern



### 180° Pattern

| Mounting Height | Multiplier |
|-----------------|------------|
| 10'             | 4.000      |
| 15'             | 1.778      |
| 20'             | 1.000      |
| 25'             | 0.640      |

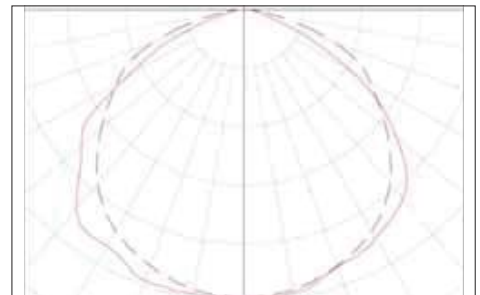
180° Pattern Mounted at 45°



### 360° Pattern

| Mounting Height | Multiplier |
|-----------------|------------|
| 10'             | 4.000      |
| 15'             | 1.778      |
| 20'             | 1.000      |
| 25'             | 0.640      |

360° Pattern Mounted at 45°



Dialight reserves the right to make changes at any time in order to supply the best product possible. The most current version of this document will always be available at:

[www.dialight.com/Assets/Brochures\\_And\\_Catalogs/Illumination/MDTFHHAZX001.pdf](http://www.dialight.com/Assets/Brochures_And_Catalogs/Illumination/MDTFHHAZX001.pdf). Warranty Statement: EXCEPT FOR THE WARRANTY EXPRESSLY PROVIDED FOR [HEREIN/ABOVE/BELOW], DIALIGHT DISCLAIMS ANY AND ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE, AND NON-INFRINGEMENT.

## Dialight Vigilant® and DuroSite® Industrial / SafeSite® Hazardous Area: LED Solid State Lighting Fixture - Limited Warranty

### What does this warranty cover?

Dialight warrants solely to the original commercial end user ("Purchaser") of Dialight LED solid state lighting Fixture products ("Products"), that the Products will be free of significant defects in material and workmanship for a period of ten (10) years from the date of shipment of the Products by Dialight ("Warranty Period").

### This warranty does not cover:

- (1) Products that are subjected to abuse, misuse, neglect, negligence, accident, improper testing or service, improper installation or removal and reinstallation, improper storage, improper handling, improper repair, or use contrary to any written installation or maintenance guides issued by Dialight or made available on Dialight's website;
- (2) Non-material degradation or wear and tear of Products arising during standard authorized use;
- (3) Products that are subjected to (momentarily or continuously) abnormal physical stress, abnormal environmental conditions, exposure to foreign materials, exposure to chemical attack, exposure to excessive humidity, vibration, impact, extreme temperature, subject to electrical line noise, electric surge, voltage outside range, RF noise or other abnormal electrical stress;
- (4) Products that are reconstructed, repaired or altered by persons other than Dialight or a Dialight authorized representative;
- (5) Products that have been amended, repaired or modified using third party products or components not manufactured or supplied by Dialight;
- (6) Advice or assistance relating to the Products that Dialight provides free of charge as a gesture of goodwill to Purchaser;
- (7) Any defective Products where the defect has arisen as a result of Dialight following Purchaser's own drawings, specification or instructions;
- (8) Any third-party manufactured products attached to the Product, inserted in the Product or added to the Product network such as sensors, detectors, batteries or communication devices (such products are covered by the applicable manufacturer warranty). For the avoidance of doubt Dialight makes no representation or warranty with respect to any third-party products;
- (9) Any damage to or malfunction of the Product (including controls circuitry such as wired or wireless) or lighting network as a result of interference from an external device or system; and
- (10) Any security breach or hacking of the Product or lighting network through manual, wired or wireless intrusion or man in the middle attack.

### What will Dialight do to correct the problems?

If, upon the inspection and testing of the returned Products by Dialight, such Products are found to be defective and such defect has not been caused by the reasons set out above, Dialight shall repair, replace or refund (at Dialight's option) such Products.

### What must Purchaser do to make a valid claim?

- (1) Submit all alleged claims or defects within the Warranty Period for receipt by Dialight as soon as reasonably possible and in any event within thirty (30) days of discovery, in writing and with detail of the same;
- (2) Return (at Purchaser's own cost and expense) Products with a bill of sale or other evidence showing the date of purchase and identification of the original Purchaser; and

- (3) Prepay all of Dialight's costs and expenses (including risk of loss) for the delivery of all repaired or replaced Products to the Purchaser.

Compatibility of Dialight Products is highly dependent on environmental conditions and therefore, in abnormal conditions the Purchaser must undertake a compatibility assessment of their relevant site prior to the installation of the Product. Purchaser shall also retain and present to Dialight (on request), evidence of compatibility assessment under actual operating conditions.

### Warranty Limitations:

- (1) Timeframes: All repaired or replaced Products are warranted for the time remaining in the original Warranty Period of the original Product;
- (2) Replacements: Replacement Products will be equivalent in function, but not necessarily identical to the replaced Products;
- (3) No further Liability: Repair, replacement or refund as set forth in this warranty is the sole and exclusive remedy under this warranty or otherwise for Products' defects. Once Dialight has replaced, repaired or refunded the defective Products it shall have no further liability to the Purchaser in respect to the defect in that particular Product; and
- (4) **NO ADDITIONAL WARRANTY: EXCEPT FOR THE WARRANTIES CONTAINED HEREIN NEITHER DIALIGHT NOR ANY PERSON ON OUR BEHALF HAS MADE OR MAKES ANY EXPRESS OR IMPLIED REPRESENTATION OR WARRANTY WHATSOEVER, EITHER ORAL OR WRITTEN, INCLUDING ANY WARRANTIES OF MERCHANTABILITY, CONFORMANCE TO DESCRIPTION OR SAMPLE, FITNESS FOR A PARTICULAR PURPOSE, OR NON-INFRINGEMENT, WHETHER ARISING BY LAW, COURSE OF DEALING, COURSE OF PERFORMANCE, USAGE OF TRADE OR OTHERWISE, ALL OF WHICH ARE EXPRESSLY DISCLAIMED TO THE FULLEST EXTENT, AND PURCHASER ACKNOWLEDGES THAT IT HAS NOT RELIED UPON ANY REPRESENTATION OR WARRANTY MADE BY DIALIGHT, OR ANY OTHER PERSON ON DIALIGHT'S BEHALF, EXCEPT AS SPECIFICALLY PROVIDED IN THIS DOCUMENT.**

### What damages can't you claim for?

**IN NO EVENT SHALL DIALIGHT BE LIABLE FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL, EXEMPLARY, CONSEQUENTIAL OR PUNITIVE DAMAGES INCLUDING ANY DAMAGES FOR BUSINESS INTERRUPTION, LOSS OF USE, REVENUE, SAVINGS OR PROFITS, ARISING OUT OF BREACH OF CONTRACT, TORT (INCLUDING NEGLIGENCE AND STRICT PRODUCT LIABILITY) OR OTHERWISE REGARDLESS OF WHETHER SUCH DAMAGES WERE FORESEEABLE AND WHETHER OR NOT DIALIGHT, A DIALIGHT AUTHORIZED REPRESENTATIVE OR THE PURCHASER WAS ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.**

**THIS LIMITATION OF LIABILITY MAY NOT APPLY TO DAMAGES RELATING TO PERSONAL INJURY OR DEATH OR OTHER LIABILITIES IN JURISDICTIONS WHERE THE SAME MAY NOT BE DISCLAIMED AS A MATTER OF LAW.**

### How I make a claim under this warranty?

To obtain warranty service, Purchaser must obtain an RMA (Return Material Authorization) number and instructions on how and where to return the products from your local Dialight Customer Service department. Customers can also email our warranty mailbox at: warranties@dialight.com where you will be provided with further guidance as to the appropriate Dialight representative to contact.

**Please note if there is any conflict or inconsistency between the English language version of this warranty and any translated version (into any language whatsoever), the English language version shall prevail.**

## FEATURES & SPECIFICATIONS

**INTENDED USE** — Ideal for applications requiring attractive die-cast aluminum signage, superior illumination and low energy consumption.

**CONSTRUCTION** — Precision-molded, die-cast aluminum construction — ultra-slim, compact housing. Fine-grain brushed aluminum faceplate with matte black electrostatic polymeric trim. Clear lacquer finish on brushed face inhibits fingerprints and other surface contaminants. Available in white or black housing finishes.

Electronics located inside housing (including battery for EL N models).

Fully overlapping light seal prevents light leaks. Universal directional chevron knockouts are completely concealed and easily removed. Hinged faceplate and spring latches for easy lamp compartment access.

Letters 6" high with 3/4" stroke, with 100 ft viewing distance rating, based upon UL924 standards.

**U.S. Patent No. 5,739,639, 5,954,423 and 6,502,044.**

**OPTICS** — Lamp is constructed using new LED technology. Provides perfectly uniform illumination to meet 3/4" letter stroke required by code.

The typical life of the exit LED lamp is 10 years, based on continuous operation. Unique LED lamp platform accommodates both single-face and double-face exits.

**ELECTRICAL** — Universal input voltage capabilities (120V through 277V, 50 or 60 Hz).

Solid-state electronic elements to eliminate risk of electromechanical failures.

Surge protection meets ANSI/IEEE C62.41 category B and IEC 1000 immunity standards for high voltage surges, electrostatic discharges, high frequency electrical fast transients and line voltage dips/swells.

Battery (EL N models): Sealed, maintenance-free nickel-cadmium battery delivers 90 minutes capacity to lamp.

Low voltage disconnect prevents excessive deep discharge that can permanently damage the battery.

Single-point microcomputer control for all electronic features.

Crystal oscillator timing system with watchdog protection for precision accuracy.

AC/LVD reset allows battery connection before AC power is applied and prevents battery damage from deep discharge.

Brownout protection is automatically switched to emergency mode when supply voltage drops below 80% of nominal.

Single multi-chromatic LED indicator to display two-state charging, test activation and three-state diagnostic status.

Test switch provides manual activation of 30-second diagnostic testing for on-demand visual inspection.

Diagnostics (SD option only): Two-state constant-current charger maximizes battery life and automatically recharges after battery discharge.

Self-diagnostic testing for five minutes every 30 days and 30 minutes every six months.

Diagnostic evaluation of LED light source, AC to DC transfer, charging and battery condition.

Continuously monitors AC functionality.

|                |              |
|----------------|--------------|
| Catalog Number | MEX S 1 G SD |
| Notes          |              |
| Type           | X            |

Die-Cast Aluminum Exits

# MAGELLAN MEX



LED Lamps



**INSTALLATION** — Universal mounting (top, end or back). Double face available with top or end mounting only (canopy included). Completely concealed, easily removable mounting knockouts. No exposed hardware.

Die-cast aluminum canopy provided for surface mount only.

**LISTINGS** — UL damp location listed 50°F - 104°F (10°C - 40°C). Meets UL 924, NFPA 101 (current Life Safety Code), NEC and OSHA illumination standards, and State of Minnesota energy-efficiency legislation requiring less than 20W consumption. North Carolina Department of Insurance. NEMA Premium certified.

**WARRANTY** — 5-year limited warranty. (Battery is prorated.) Complete warranty terms located at [www.acuitybrands.com/CustomerResources/Terms\\_and\\_conditions.aspx](http://www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx)

**Note:** Actual performance may differ as a result of end-user environment and application.

All values are design or typical values, measured under laboratory conditions at 25 °C.

Specifications subject to change without notice.

## ORDERING INFORMATION

For shortest lead times, configure products using **bolded options**.

**Example: MEX S 1 R SD**

| MEX                           | S                |                                                                                                                                  | 1                                            | G                              |                                                                | SD                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------------|------------------|----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|--------------------------------|----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Family                        | Face type        | Housing color                                                                                                                    | Number of faces                              | Letter color                   | Input voltage                                                  | Operation                                                                                                                                                 | Options                                                                                                                                                                                                                                                                                                                                                                    |
| <b>MEX</b> LED, surface mount | <b>S</b> Stencil | <b>(blank)</b> Brushed aluminum faceplate, black housing<br>W White faceplate, white housing<br>B Black faceplate, black housing | <b>1</b> Single face<br><b>2</b> Double face | <b>R</b> Red<br><b>G</b> Green | <b>(blank)</b> Universal input voltage (120-277V, 50 or 60 HZ) | <b>(blank)</b> AC only<br>X2 Lamp wired on two separate circuits<br>EL N Nickel-cadmium battery<br><b>SD</b> Nickel-cadmium battery with self-diagnostics | <b>(blank)</b> None<br>VR Vandal-resistant shield (1/8" thick polycarbonate) with two tamper proof Torx-head screws<br>FI Fire alarm flashing interface <sup>1</sup><br>FIFA Flashing fire alarm, emergency operation and intermittent audible alarm (one flash per minute) <sup>2,3</sup><br>FA Flashing emergency operation and intermittent audible alarm. <sup>4</sup> |

### Accessories: Order as separate catalog number.

|           |                                   |
|-----------|-----------------------------------|
| ELA US12  | 12" stem kit <sup>5</sup>         |
| ELA WG1   | Back-mount wireguard <sup>6</sup> |
| ELA WGEXT | Top-mount wireguard <sup>6</sup>  |
| ELA WGEXE | End-mount wireguard <sup>6</sup>  |

### Notes

- Only available with AC only or EL N operation only.
- Available with SD operation only.
- Either FA or FI function enabled with selector switch.
- Available with EL N operation only.
- See spec sheet [HLP-ELA-StemKits](#).
- See spec sheet [ELA-DM-PM-CM-WG](#).

# MAGELLAN MEX Die-Cast LED Exit

## SPECIFICATIONS

### ELECTRICAL

| Primary Circuit     |                               |                |             |           |
|---------------------|-------------------------------|----------------|-------------|-----------|
| Type                | Typical LED life <sup>1</sup> | Supply voltage | Input watts | Max. amps |
| Red LED AC only     | 10 yrs.                       | 120            | 0.81        | 0.05      |
|                     |                               | 277            | 1.2         | 0.06      |
| Green LED AC only   | 10 yrs.                       | 120            | 1.05        | 0.05      |
|                     |                               | 277            | 1.32        | 0.06      |
| Red LED emergency   | 10 yrs.                       | 120            | 1.3         | 0.06      |
|                     |                               | 277            | 1.4         | 0.07      |
| Green LED emergency | 10 yrs.                       | 120            | 1.5         | 0.07      |
|                     |                               | 277            | 1.7         | 0.07      |

| BATTERY (EL N and SD options) |                           |                          |                                  |
|-------------------------------|---------------------------|--------------------------|----------------------------------|
| Sealed Nickel-Cadmium         |                           |                          |                                  |
| Shelf life <sup>2</sup>       | Typical life <sup>2</sup> | Maintenance <sup>3</sup> | Optimum temperature <sup>4</sup> |
| 3 yrs.                        | 7–9 yrs.                  | none                     | 50°–104°F (10°–40°C)             |

#### Notes

- Based on continuous operation. The typical life of the exit LED lamp is 10 years.
- At 77°F (25°C).
- All life safety equipment, including emergency lighting for path of egress must be maintained, serviced, and tested in accordance with all National Fire Protection Association (NFPA) and local codes. Failure to perform the required maintenance, service, or testing could jeopardize the safety of occupants and will void all warranties.
- Optimum ambient temperature range where unit will provide capacity for 90 minutes. Higher and lower temperatures affect life and capacity. Consult factory for detailed information.

## SELF-DIAGNOSTICS (SD only)

- Five-minute test every 30 days
- 30-minute test every six months
- Diagnostics evaluate the battery, lamp, charger and AC to DC transfer.

| Condition       | Indication       |
|-----------------|------------------|
| Normal mode     | Steady green     |
| Self-testing    | Flashing green   |
| Emergency mode  | Off              |
| High charge     | Steady red       |
| Battery failure | Single-flash red |
| Lamp failure    | Double-flash red |
| Circuit failure | Triple-flash red |

## KEY FEATURE



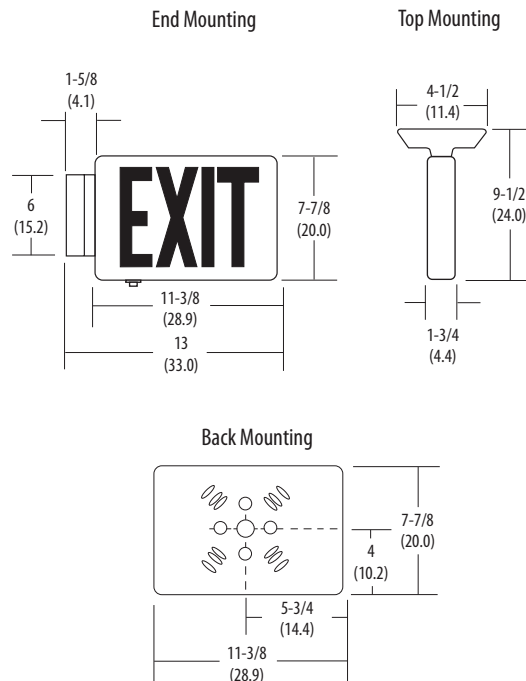
The typical life of the exit LED lamp is 10 years.

## MOUNTING

All dimensions are in inches (centimeters). For VR option, add 1/4" to height and width. Add 1/8" depth for single face; 1/4" depth for double face. Canopy required for back mounting with X2 and FL.

EL N model -- Shipping weight: 5 lbs. (2.3 kgs.)

AC model -- Shipping Weight: 4.5 lbs (2.0 kgs)



MAGELLAN MEX

**SITE**



TYPE B1  
ALC7BC23DNWNGN

3 @ Digester #3 Stairway  
3 @ Digester #4 Stairway

NOTE: NO PHOTOCELL OPTION ON CLASS 1 DIV 1  
FIXTURE TYPE B1.  
FIELD MOUNTING PHOTOCELL OPTION OUTSIDE THE  
HAZARDOUS BOUNDARY WILL NEED TO BE REVIEWED  
SEPARATELY FROM THIS SUBMITTAL.



**Dialight® LED Area Light**  
Technical Specification Sheet - UL

SafeSite® LED Area Light  
100-277V AC, 120-250V DC

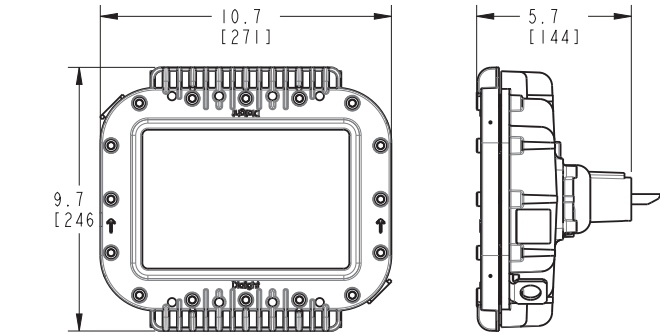


Certifications & Ratings\*

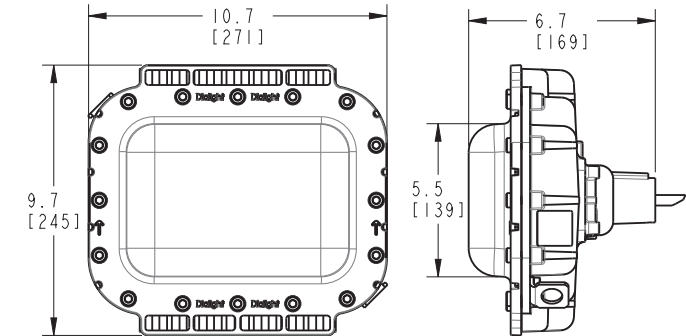
- 10 year warranty
  - UL 844, UL 1598/A
  - Class I, Div 1, Groups B, C, D
  - Class I, Div 2, Groups A, B, C, D
  - Class II, Div 1, Groups E, F, G
  - Class II, Div 2 Groups F, G
- Class III, Div 1 & 2
  - CSA 22.2 No. 137:1981
  - CSA 22.2 No. 137-M81
  - IP66 / 67 / 69
  - NEMA 4X
  - Factory sealed

\*ETL listed

Tempered Glass Lens



Polycarbonate Lens



Dimensions in inches [mm]

Mechanical Information:

**Fixture weight:**  
Class I, Div. 1 14.5 lbs (5.5 kg)  
CID2, Class II, Class III 10 lbs (4.5 kg) - Polycarbonate lens  
12 lbs (5.5 kg) - Glass lens  
Wall mount models: 15 lbs (6.8 kg) - Polycarbonate lens  
18 lbs (8.2 kg) - Tempered glass lens  
45° wall mount models: 14 lbs (6.4 kg) - Polycarbonate lens  
17 lbs (7.8 kg) - Tempered glass lens  
45° stanchion mount: 15 lbs (6.7 kg) - Polycarbonate lens  
18 lbs (8.1 kg) - Tempered glass lens  
34mm conveyor mount: 15 lbs (6.7 kg) - Polycarbonate lens  
18 lbs (8.1 kg) - Tempered glass lens

**Shipping weight:** Add 2 lbs (0.91kg) to weights above  
**Cabling:** 10' (3.5 m) 5 conductor SOOW  
14' (0.4 m) 5 conductor SOOW  
**Impact rating:** IK10 - Polycarbonate lens  
IK07 - Tempered glass lens  
**Vibration resistance:** Tested per IEC 60068-2-6

Electrical Specifications:

**Operating voltage:** 100 - 277V AC 50/60Hz, 120-250V DC  
**Total system power consumption:** See table  
**Operating temperature:** -40°F to +149°F (-40°C to +65°C)  
**EMC:** FCC Title 47, Subpart B, Section 15, Class A device  
CISPR-15  
RF Immunity 20V/m 80MHz-1GHz.

**Transient protection:** 6 kV, 2 Ohm line-line and line-ground  
**Harmonics:** IEC 61000-3-2, Class C  
**THD:** < 20%  
**Power factor:** > 0.9

Construction:

**Housing:** Copper free aluminum  
**Finish:** Superior dual coat finish  
- Sealed polyester topcoat  
- Chemical-resistant epoxy primer  
**Corrosion resistance:** 3,000-hour salt spray per ASTM B117  
**Lens<sup>1</sup>:** Tempered glass

Photometric Information:

**CRI:** 80  
**CCT:** 5000K (cool white)  
4000K (neutral white)  
2700K (warm white)  
**Optics:** 360°  
180° forward throw for 45° mounting  
Wide for 0° mounting

All values typical unless otherwise stated (tolerance +/- 10%)

<sup>1</sup>For information on chemical compatibility, please contact your local Dialight representative or follow this link to reference Dialight's Chemical Compatibility Guide:  
[www.dialight.com/pubs/MDTFCHEMRFLX001.PDF](http://www.dialight.com/pubs/MDTFCHEMRFLX001.PDF)

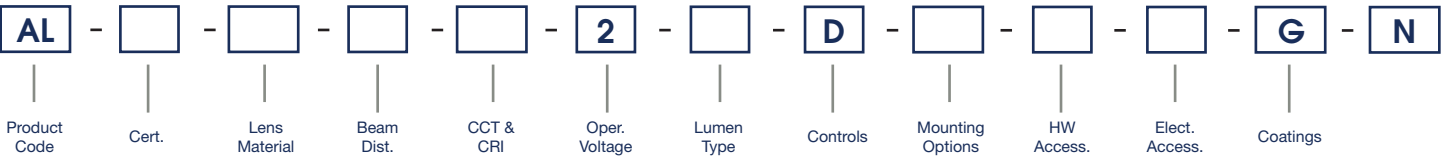
Temperature Ratings

| Ambient Temperature Range T4A    | Ambient Temperature Range T5     |
|----------------------------------|----------------------------------|
| -40°F to +149°F (-40°C to +65°C) | -40°F to +113°F (-40°C to +45°C) |

SafeSite® LED Area Light  
100-277V AC, 120-250V DC



Ordering Information



Product Code

AL Area Light

Certification

C UL 844 Class I Div. 1

P UL 844 Class I Div. 1 Group B (Hydrogen)

F UL 844 Class II Div. 1

P UL 844 Class I Div. 1 Group B (Hydrogen)

Lens Material

5 Polycarbonate - Diffused

7 Glass - Clear

Beam Distribution

A 180°

B 360°

W Wide

CCT & CRI

C Cool White 5000K - 80 CRI

N Neutral White 4000K - 80 CRI

W Warm White 2700K - 80 CRI

Operating Voltage

2 100-277 V AC, 120-250 V DC

Lumen Type

3 3,001 - 4,000 Lumens

4 4,001 - 5,000 Lumens

6 5,001 - 6,000 Lumens

7 6,001 - 7,000 Lumens

9 8,001 - 9,000 Lumens

Controls

D Dimming (0-10V)

Mounting Options

Retro-fit Adapter

\*Universal Mounting Adapter (UMA)

A Appleton Mercmaster III

B Swivel Bracket, Locking 0°- 90° 316 Stainless Steel

C Crouse-Hinds - Champ

G GE Filtr-Gard

H Thomas & Betts Hazlux

K Killark Certilite & Certilite V

M Appleton Mercmaster II

N 3/4" NPT

S 45° Stanchion Mount

U UMA - Mounting Hub

V 0° Wall Mount

W 45° Wall Mount

Y 34mm Conveyor Mount

Hardware Accessories

7 14 in (0.35 meter) Leads

N No Option

T 1.5 ft (0.5 meter) Power Cable

U 3 ft (1 meter) Power Cable

V 6 ft (1.8 meter) Power Cable

W 10 ft (3 meter) Power Cable

Electrical Accessories

A Armoured Cable with Cable Gland

M Cable Glands

N No Option

T IECEx 5 Position Terminal Block

U 5 Position Terminal Block - screw down

V 5 Position Terminal Block - push down

Coatings

G Gray (RAL 7040)

Project Information

Part Number: ALC7BC23DNWNGN

Project:

Fixture Type:

Date:

Notes

Specifications

Lumen Tables

| 100-277V AC, 120-250V DC |                   |                      |         |                    |                  |                    |                  |                    |                  |
|--------------------------|-------------------|----------------------|---------|--------------------|------------------|--------------------|------------------|--------------------|------------------|
| Output Family            | Beam Distribution | Lens                 | Wattage | Lumens<br>5000 CCT | 5000<br>CCT lm/W | Lumens<br>4000 CCT | 4000<br>CCT lm/W | Lumens<br>2700 CCT | 2700<br>CCT lm/W |
| 9,000                    | 360°              | 1/4" AR Glass        | 66      | 9000               | 136              | 8800               | 134              | 8200               | 124              |
|                          |                   | Class I, Div 1 Glass |         | 8600               | 131              | 8400               | 128              | 7900               | 120              |
|                          |                   | Polycarbonate        |         | 8300               | 127              | 8100               | 123              | 7600               | 115              |
|                          | 180°              | 1/4" AR Glass        |         | 8800               | 134              | 8600               | 131              | 8000               | 121              |
|                          |                   | Class I, Div 1 Glass |         | 8400               | 128              | 8200               | 125              | 7700               | 117              |
|                          |                   | Polycarbonate        |         | 8100               | 124              | 7900               | 120              | 7400               | 112              |
| 7,300                    | 360°              | 1/4" AR Glass        | 52      | 7300               | 140              | 7100               | 138              | 6700               | 129              |
|                          |                   | Class I, Div 1 Glass |         | 7000               | 135              | 6800               | 132              | 6400               | 123              |
|                          |                   | Polycarbonate        |         | 6700               | 131              | 6500               | 126              | 6100               | 117              |
|                          | 180°              | 1/4" AR Glass        |         | 7100               | 138              | 6900               | 134              | 6500               | 125              |
|                          |                   | Class I, Div 1 Glass |         | 6800               | 132              | 6600               | 128              | 6200               | 119              |
|                          |                   | Polycarbonate        |         | 6600               | 128              | 6400               | 124              | 6000               | 115              |
|                          | Wide              | 1/4" AR Glass        | 64      | 7300               | 114              | 7100               | 112              | 6700               | 105              |
|                          |                   | Class I, Div 1 Glass |         | 7000               | 110              | 6800               | 107              | 6400               | 100              |
|                          |                   | Polycarbonate        |         | 6700               | 106              | 6500               | 103              | 6100               | 95               |
| 5,700                    | 360°              | 1/4" AR Glass        | 40      | 5700               | 143              | 5500               | 140              | 5200               | 130              |
|                          |                   | Class I, Div 1 Glass |         | 5400               | 137              | 5200               | 132              | 4900               | 123              |
|                          |                   | Polycarbonate        |         | 5300               | 133              | 5100               | 130              | 4800               | 120              |
|                          | 180°              | 1/4" AR Glass        |         | 5500               | 140              | 5300               | 135              | 5000               | 125              |
|                          |                   | Class I, Div 1 Glass |         | 5300               | 134              | 5100               | 130              | 4800               | 120              |
|                          |                   | Polycarbonate        |         | 5100               | 130              | 4900               | 125              | 4600               | 115              |
| 4,200                    | 360°              | 1/4" AR Glass        | 30      | 4200               | 140              | 4100               | 137              | 3800               | 127              |
|                          |                   | Class I, Div 1 Glass |         | 4000               | 134              | 3900               | 131              | 3600               | 120              |
|                          |                   | Polycarbonate        |         | 3900               | 130              | 3800               | 127              | 3900               | 130              |
|                          | 180°              | 1/4" AR Glass        |         | 4100               | 137              | 4000               | 134              | 4100               | 137              |
|                          |                   | Class I, Div 1 Glass |         | 3900               | 132              | 3800               | 127              | 3900               | 130              |
|                          |                   | Polycarbonate        |         | 3800               | 127              | 3700               | 124              | 3400               | 113              |
| 3,100                    | 360°              | 1/4" AR Glass        | 24      | 3100               | 129              | 3000               | 127              | 2800               | 117              |
|                          |                   | Class I, Div 1 Glass |         | 2900               | 124              | 2900               | 121              | 2600               | 108              |
|                          |                   | Polycarbonate        |         | 2800               | 120              | 2700               | 114              | 2500               | 104              |
|                          | 180°              | 1/4" AR Glass        |         | 3000               | 127              | 2900               | 123              | 2700               | 113              |
|                          |                   | Class I, Div 1 Glass |         | 2900               | 121              | 2800               | 118              | 2600               | 108              |
|                          |                   | Polycarbonate        |         | 2800               | 118              | 2700               | 114              | 2500               | 104              |

| 24-48V DC     |                   |                      |         |                    |                  |                    |                  |
|---------------|-------------------|----------------------|---------|--------------------|------------------|--------------------|------------------|
| Output Family | Beam Distribution | Lens                 | Wattage | Lumens<br>5000 CCT | 5000<br>CCT lm/W | Lumens<br>4000 CCT | 4000<br>CCT lm/W |
| 7,000         | 360°              | 1/4" AR Glass        | 71      | 7000               | 99               | 6800               | 97               |
|               |                   | Class I, Div 1 Glass |         | 6700               | 95               | 6500               | 93               |
|               |                   | Polycarbonate        |         | 6700               | 95               | 6500               | 93               |
|               | 180°              | 1/4" AR Glass        |         | 7000               | 99               | 6800               | 97               |
|               |                   | Class I, Div 1 Glass |         | 6700               | 95               | 6500               | 93               |
|               |                   | Polycarbonate        |         | 6700               | 95               | 6500               | 93               |
| 5,000         | 360°              | 1/4" AR Glass        | 49      | 5000               | 102              | 4900               | 100              |
|               |                   | Class I, Div 1 Glass |         | 4800               | 98               | 4700               | 96               |
|               |                   | Polycarbonate        |         | 4800               | 98               | 4700               | 96               |
|               | 180°              | 1/4" AR Glass        |         | 5000               | 102              | 4900               | 100              |
|               |                   | Class I, Div 1 Glass |         | 4800               | 98               | 4700               | 96               |
|               |                   | Polycarbonate        |         | 4800               | 98               | 4700               | 96               |
| 3,000         | 360°              | 1/4" AR Glass        | 27      | 3000               | 111              | 2900               | 109              |
|               |                   | Class I, Div 1 Glass |         | 2800               | 107              | 2800               | 105              |
|               |                   | Polycarbonate        |         | 2800               | 107              | 2800               | 105              |
|               | 180°              | 1/4" AR Glass        |         | 3000               | 111              | 2900               | 109              |
|               |                   | Class I, Div 1 Glass |         | 2800               | 111              | 2800               | 105              |
|               |                   | Polycarbonate        |         | 2800               | 107              | 2800               | 105              |

All values typical unless otherwise stated (tolerance +/- 10%)  
For lighting layouts, please find IES files at [www.dialight.com](http://www.dialight.com)

Lumen Tables

| 340-480V AC   |                   |                      |         |                    |                  |                    |                  |
|---------------|-------------------|----------------------|---------|--------------------|------------------|--------------------|------------------|
| Output Family | Beam Distribution | Lens                 | Wattage | Lumens<br>5000 CCT | 5000<br>CCT lm/W | Lumens<br>4000 CCT | 4000<br>CCT lm/W |
| 7,250         | 360°              | 1/4" AR Glass        | 68      | 7200               | 107              | 7100               | 104              |
|               |                   | Class I, Div 1 Glass |         | 6900               | 102              | 6800               | 100              |
|               |                   | Polycarbonate        |         | 6900               | 102              | 6800               | 100              |
|               | 180°              | 1/4" AR Glass        |         | 7200               | 107              | 7100               | 104              |
|               |                   | Class I, Div 1 Glass |         | 6900               | 102              | 6800               | 100              |
|               |                   | Polycarbonate        |         | 6900               | 102              | 6800               | 100              |
| 6,000         | 360°              | 1/4" AR Glass        | 58      | 6000               | 103              | 5800               | 101              |
|               |                   | Class I, Div 1 Glass |         | 5700               | 99               | 5600               | 97               |
|               |                   | Polycarbonate        |         | 5700               | 99               | 5600               | 97               |
|               | 180°              | 1/4" AR Glass        |         | 6000               | 103              | 5800               | 101              |
|               |                   | Class I, Div 1 Glass |         | 5700               | 99               | 5600               | 97               |
|               |                   | Polycarbonate        |         | 5700               | 99               | 5600               | 97               |
| 5,000         | 360°              | 1/4" AR Glass        | 47      | 5000               | 106              | 4900               | 104              |
|               |                   | Class I, Div 1 Glass |         | 4800               | 102              | 4700               | 100              |
|               |                   | Polycarbonate        |         | 4800               | 102              | 4700               | 100              |
|               | 180°              | 1/4" AR Glass        |         | 5000               | 106              | 4900               | 104              |
|               |                   | Class I, Div 1 Glass |         | 4800               | 106              | 4700               | 100              |
|               |                   | Polycarbonate        |         | 4800               | 102              | 4700               | 100              |
| 4,100         | Wide              | Polycarbonate        | 55      | 4100               | 75               | 4000               | 73               |
| 4,000         | 360°              | 1/4" AR Glass        | 38      | 4000               | 105              | 3900               | 103              |
|               |                   | Class I, Div 1 Glass |         | 3800               | 101              | 3700               | 99               |
|               |                   | Polycarbonate        |         | 3800               | 101              | 3700               | 99               |
|               | 180°              | 1/4" AR Glass        |         | 4000               | 105              | 3900               | 103              |
|               |                   | Class I, Div 1 Glass |         | 3800               | 101              | 3700               | 99               |
|               |                   | Polycarbonate        |         | 3800               | 101              | 3700               | 99               |
| 2,200         | 360°              | 1/4" AR Glass        | 21      | 2200               | 105              | 2200               | 105              |
|               |                   | Class I, Div 1 Glass |         | 2200               | 105              | 2200               | 105              |
|               |                   | Polycarbonate        |         | 2200               | 105              | 2200               | 105              |
|               | 180°              | 1/4" AR Glass        |         | 2200               | 105              | 2200               | 105              |
|               |                   | Class I, Div 1 Glass |         | 2200               | 105              | 2200               | 105              |
|               |                   | Polycarbonate        |         | 2200               | 105              | 2200               | 105              |

All values typical unless otherwise stated (tolerance +/- 10%)  
For lighting layouts, please find IES files at [www.dialight.com](http://www.dialight.com)

Lumen Maintenance Factor Tables

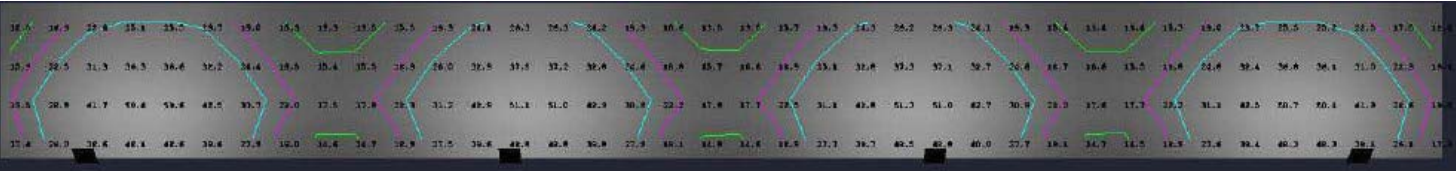
| Lumen Maintenance Factor |     |       |       |       |       |       |       |        |        |        |
|--------------------------|-----|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| Time (Hours)             |     |       |       |       |       |       |       |        |        |        |
| Ambient (C)              | 0   | 15000 | 30000 | 45000 | 60000 | 75000 | 90000 | 100000 | 200000 | 300000 |
| 25°                      | 100 | 98    | 96    | 95    | 94    | 92    | 91    | 90     | 82     | 75     |
| 30°                      | 100 | 98    | 96    | 95    | 94    | 92    | 91    | 90     | 82     | 75     |
| 35°                      | 100 | 98    | 96    | 95    | 94    | 92    | 91    | 90     | 82     | 75     |
| 40°                      | 100 | 98    | 96    | 95    | 94    | 92    | 91    | 90     | 82     | 75     |
| 45°                      | 100 | 98    | 96    | 95    | 94    | 92    | 91    | 90     | 82     | 75     |
| 50°                      | 99  | 97    | 95    | 94    | 93    | 91    | 90    | 89     | 81     | 74     |
| 55°                      | 98  | 96    | 94    | 93    | 92    | 90    | 89    | 88     | 81     | 73     |
| 60°                      | 97  | 95    | 93    | 92    | 91    | 90    | 88    | 88     | 80     | 73     |
| 65°                      | 96  | 94    | 92    | 91    | 90    | 89    | 87    | 87     | 79     | 72     |

Measured LED temperature for an ambient temperature range of 25°C to 65°C and calculated lumen maintenance using TM-21 calculator and LED LM80 data.  
Data in the above tables relates to 100 – 277V AC, 120-250V DC product. For information about 347-480V AC, 24-48V DC, Battery back-up products please visit [www.dialight.com](http://www.dialight.com).

Lighting Layouts

ALU7AN27xxxxxN

| Calculation Summary - Mounting Height: 8’ |       |       |      |      |         |         |
|-------------------------------------------|-------|-------|------|------|---------|---------|
| Calc Type                                 | Units | Avg   | Max  | Min  | Avg/Max | Max/Min |
| Illuminance                               | fc    | 27.32 | 51.3 | 12.5 | 2.19    | 4.10    |



ALU7WN27xxxxxN

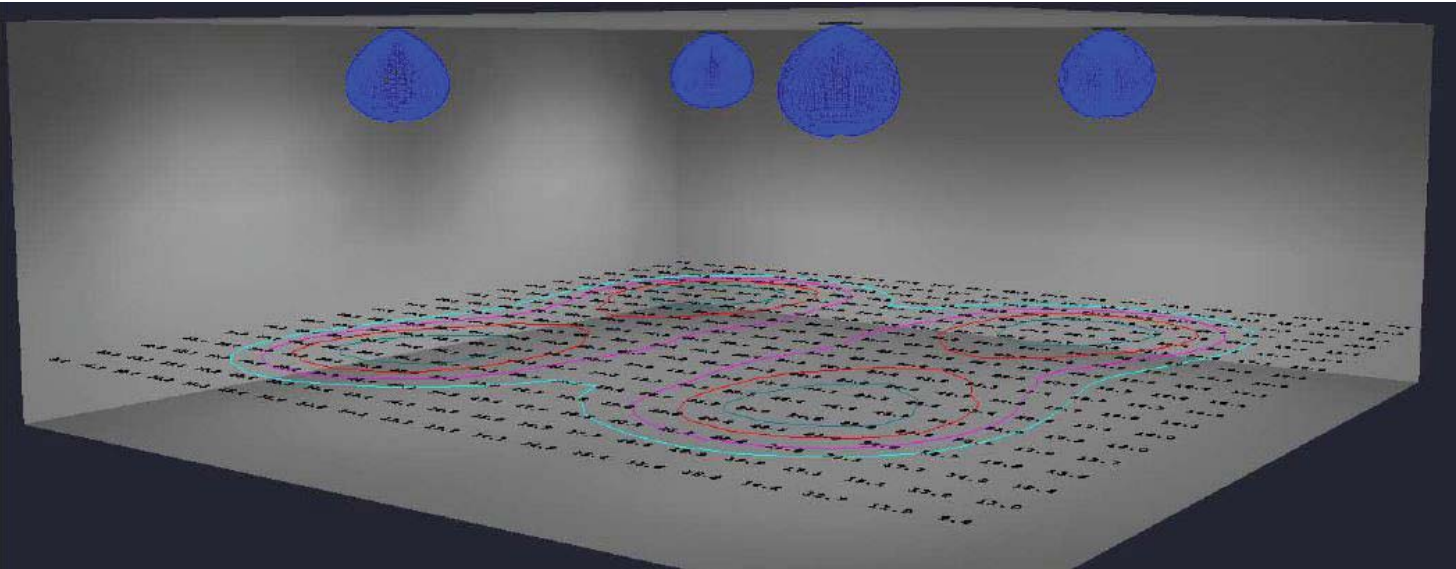
| Calculation Summary - Mounting Height: 8’ |       |       |      |     |         |         |
|-------------------------------------------|-------|-------|------|-----|---------|---------|
| Calc Type                                 | Units | Avg   | Max  | Min | Avg/Max | Max/Min |
| Illuminance                               | fc    | 19.23 | 34.8 | 7.5 | 2.56    | 4.64    |



Lighting Layouts

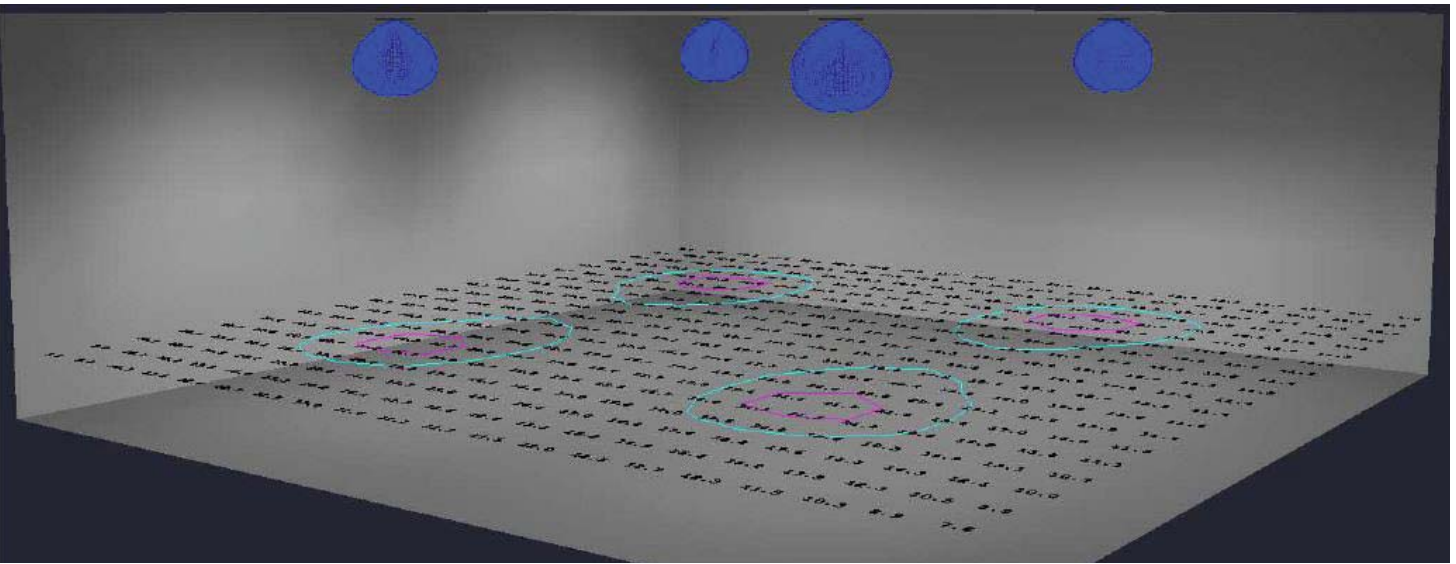
ALU7BC27xxxxxN

| Calculation Summary - Mounting Height: 15’ Workplane: 2.5’ |       |       |      |     |         |         |
|------------------------------------------------------------|-------|-------|------|-----|---------|---------|
| Calc Type                                                  | Units | Avg   | Max  | Min | Avg/Max | Max/Min |
| Illuminance                                                | fc    | 19.60 | 26.6 | 9.4 | 2.09    | 2.83    |



ALU7BC29xxxxxN

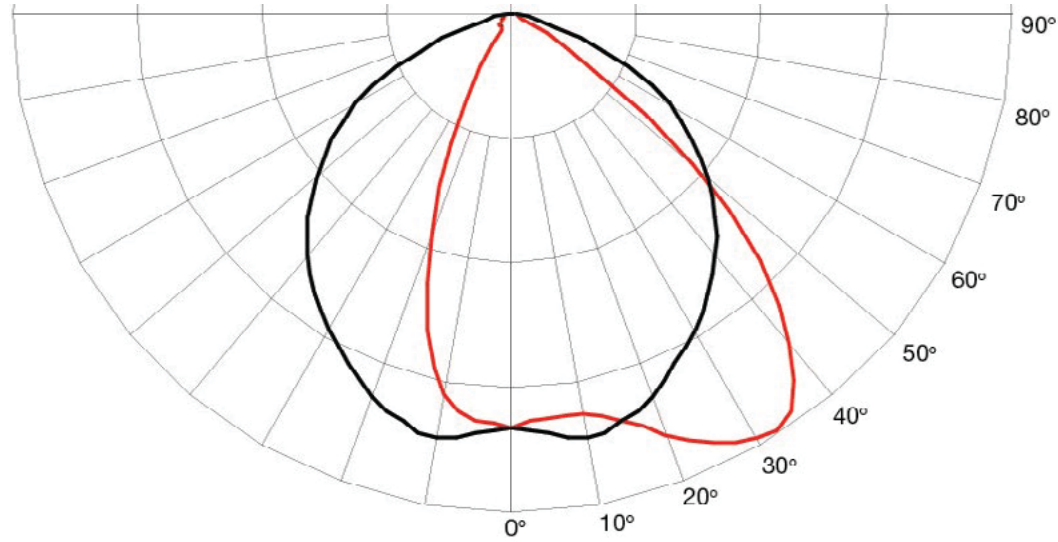
| Calculation Summary - Mounting Height: 15’ Workplane: 2.5’ |       |       |      |     |         |         |
|------------------------------------------------------------|-------|-------|------|-----|---------|---------|
| Calc Type                                                  | Units | Avg   | Max  | Min | Avg/Max | Max/Min |
| Illuminance                                                | fc    | 15.88 | 21.5 | 7.6 | 2.09    | 2.83    |



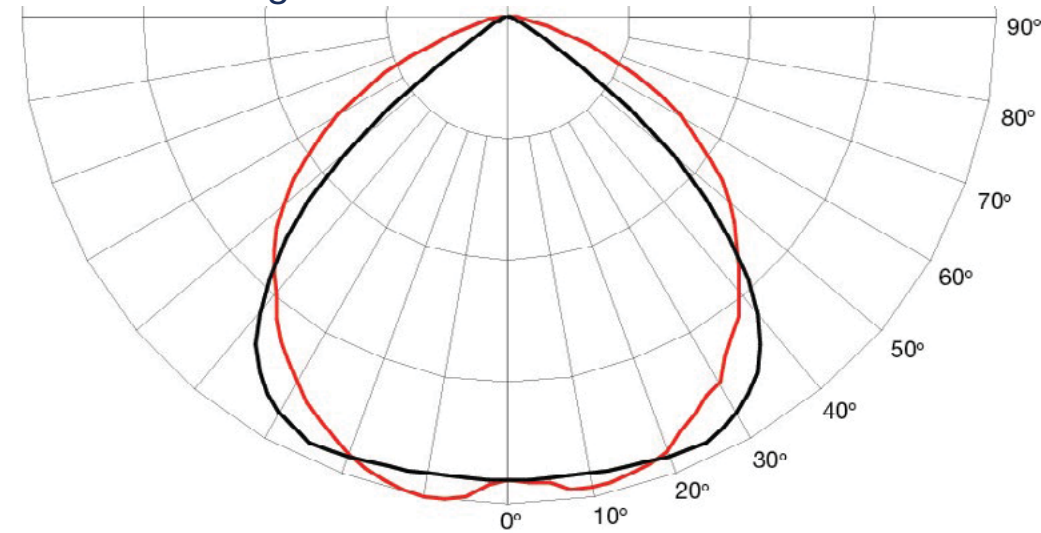
## Beam Distribution

100-277V AC, 120-250V DC

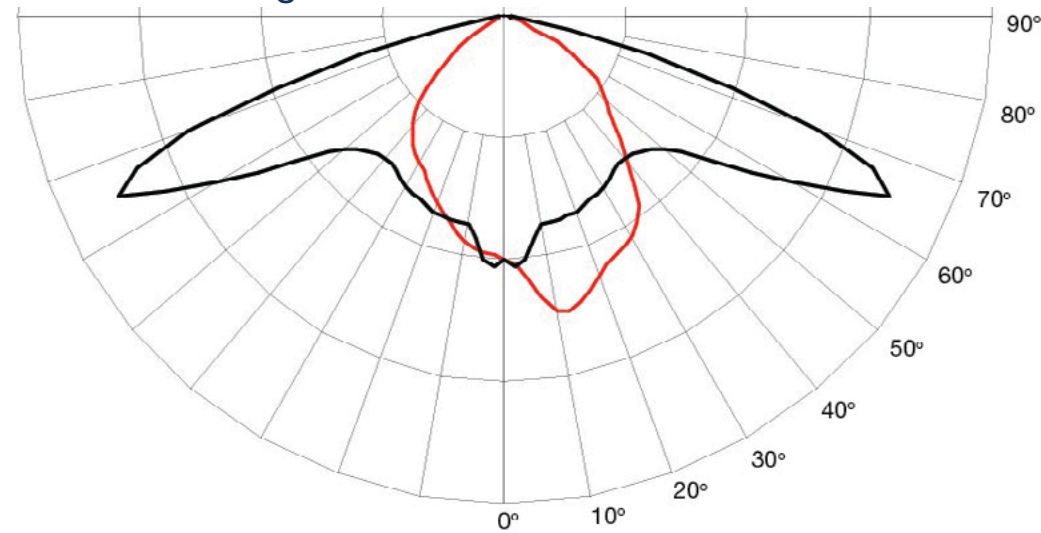
180° Beam Angle



360° Beam Angle



Wide Beam Angle

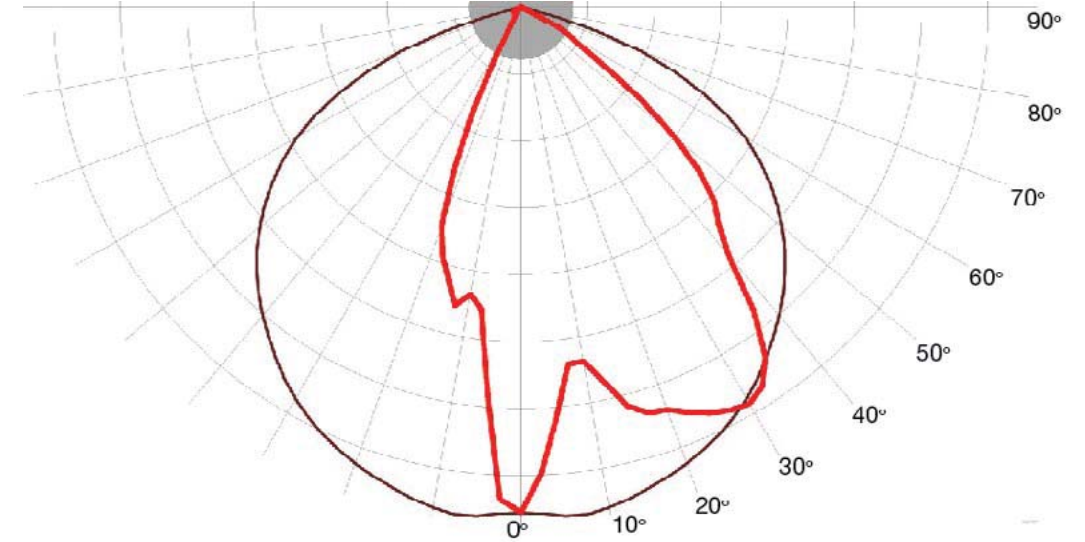


— = 0°  
— = 90°

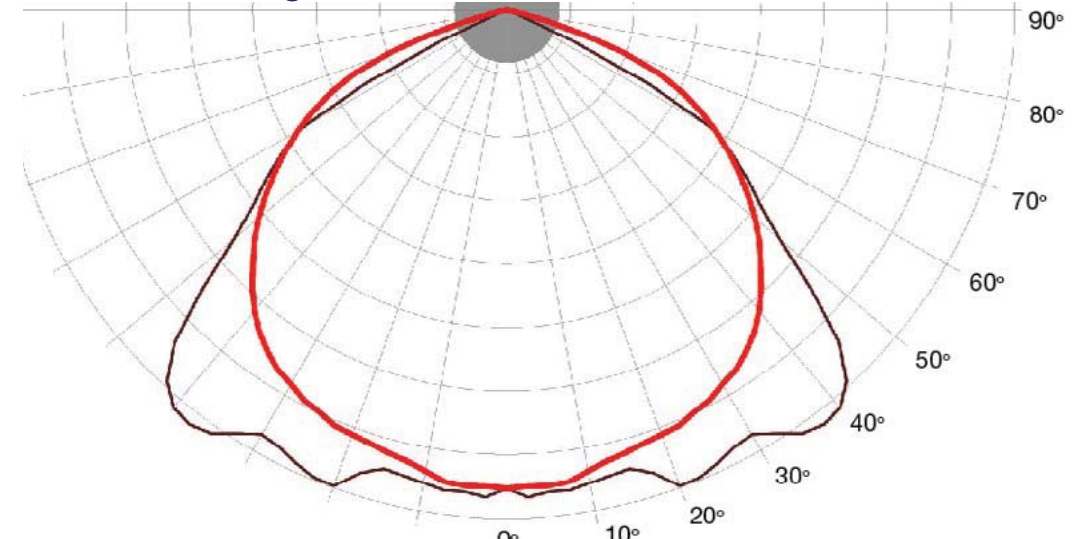
## Beam Distribution

347-480V AC, 24-48V DC, 120-277V AC Battery Backup

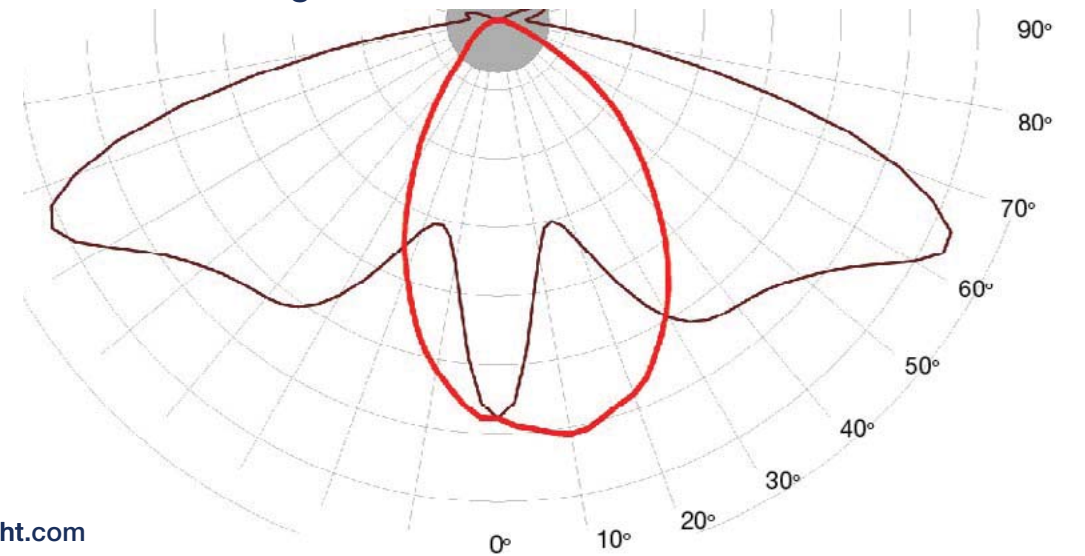
180° Beam Angle



360° Beam Angle



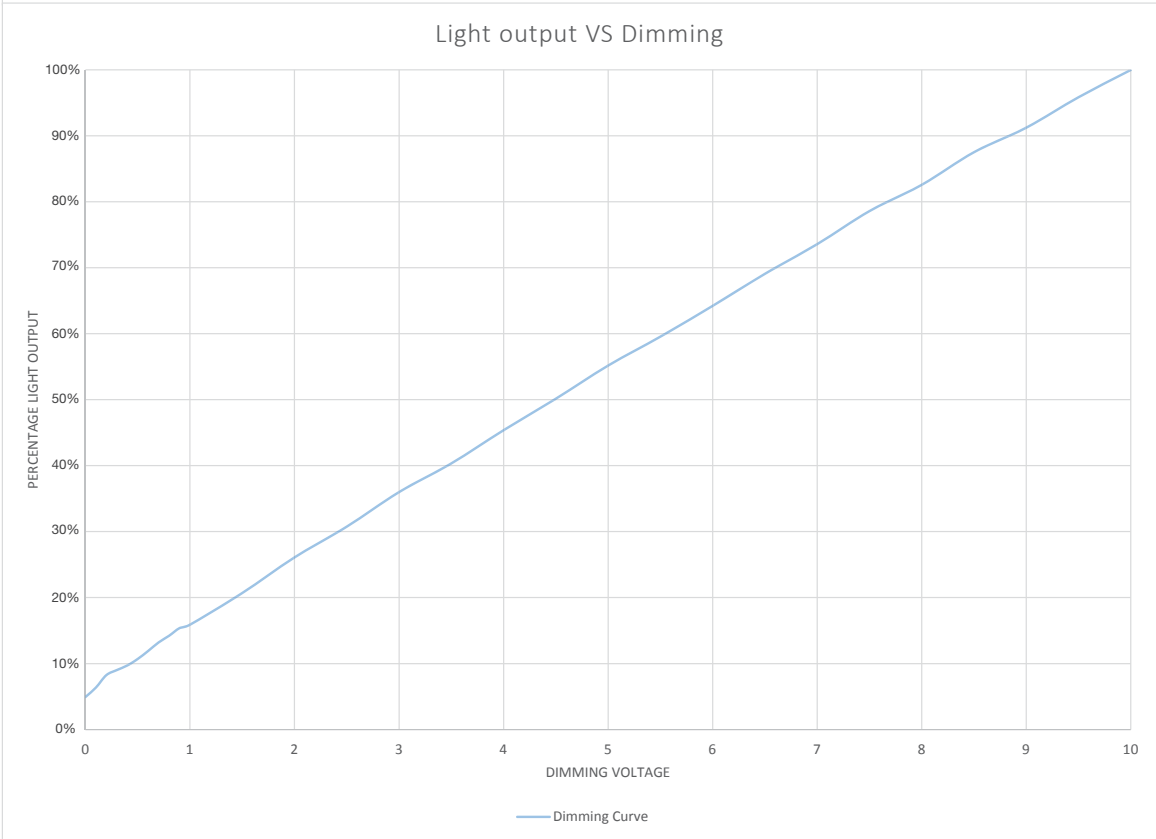
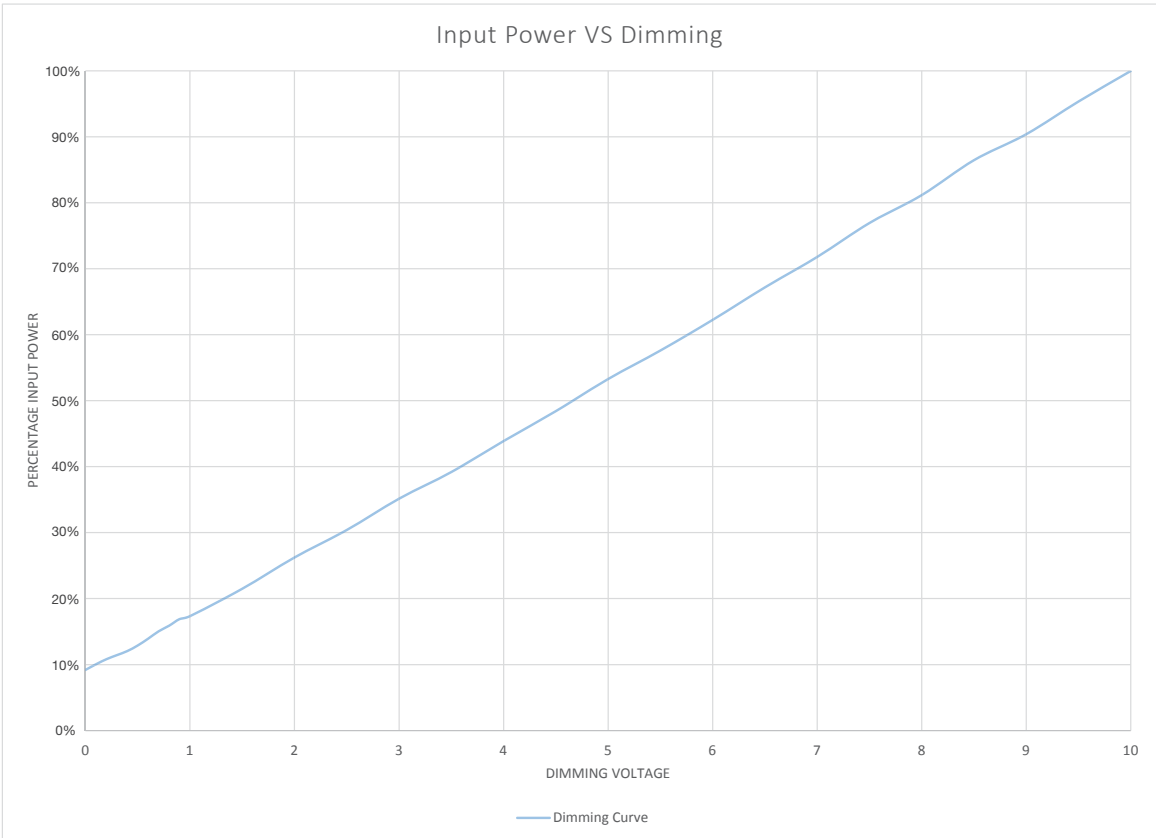
Wide Beam Angle



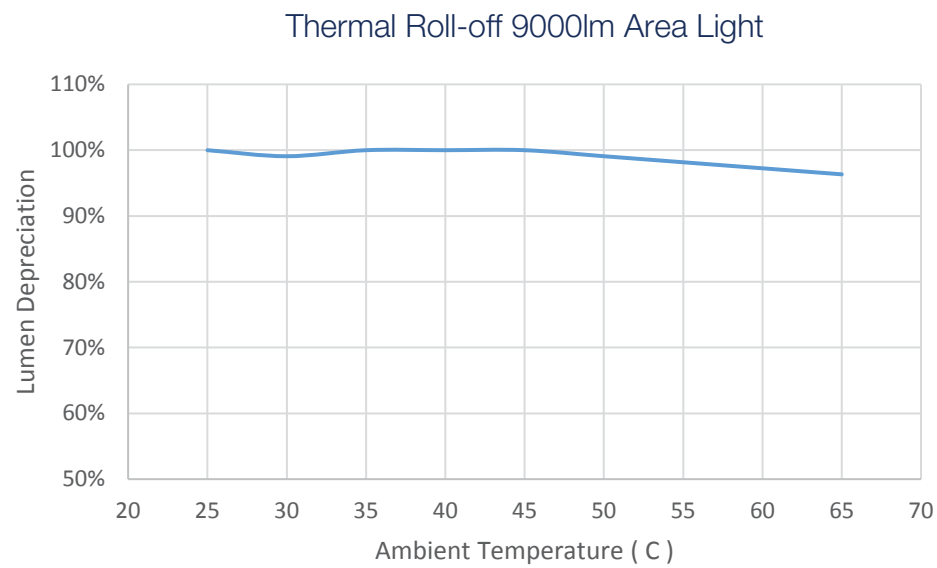
— = 0°  
— = 90°

Dimming

Dimming Characterization 0 - 10V



Thermal Roll-Off



| Ambient Temperature (C) | Lumen Degradation |
|-------------------------|-------------------|
| 25°                     | 100%              |
| 30°                     | 99%               |
| 35°                     | 100%              |
| 40°                     | 100%              |
| 45°                     | 100%              |
| 50°                     | 99%               |
| 55°                     | 98%               |
| 60°                     | 97%               |
| 65°                     | 96%               |

All values typical unless otherwise stated (tolerance +/- 10%)

In Rush Current / Circuit Breakers

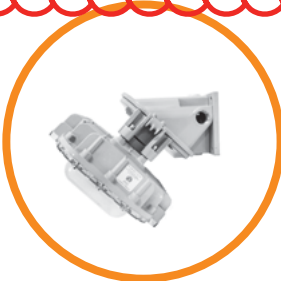
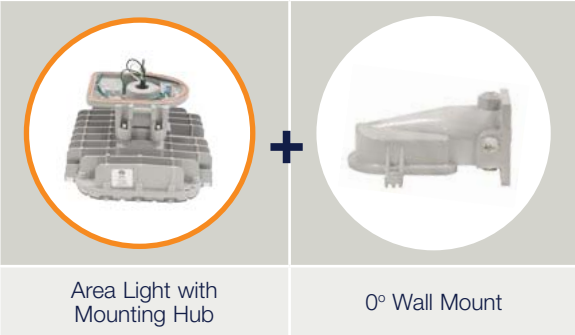
| Model   | Wattage | In rush current @ input voltage |         |         | Time duration of in rush current @ input voltage |         |         |
|---------|---------|---------------------------------|---------|---------|--------------------------------------------------|---------|---------|
|         |         | 120V AC                         | 230V AC | 277V AC | 120V AC                                          | 230V AC | 277V AC |
| 9K      | 66      | 8A                              | 15A     | 18A     | 1ms                                              | 1ms     | 1ms     |
| 7K      | 52      | 8A                              | 15A     | 18A     | 1ms                                              | 1ms     | 1ms     |
| 7K Wide | 64      | 8A                              | 15A     | 18A     | 1ms                                              | 1ms     | 1ms     |
| 5.5K    | 40      | 8A                              | 15A     | 18A     | 1ms                                              | 1ms     | 1ms     |
| 4K      | 30      | 8A                              | 15A     | 18A     | 1ms                                              | 1ms     | 1ms     |
| 3K      | 24      | 8A                              | 15A     | 18A     | 1ms                                              | 1ms     | 1ms     |

Mounting Options

3/4" NPT Pendant & Conduit Mounting

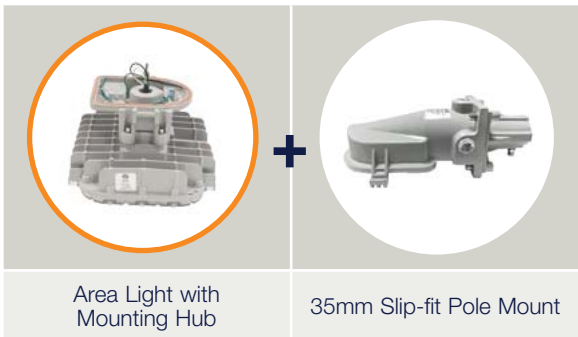
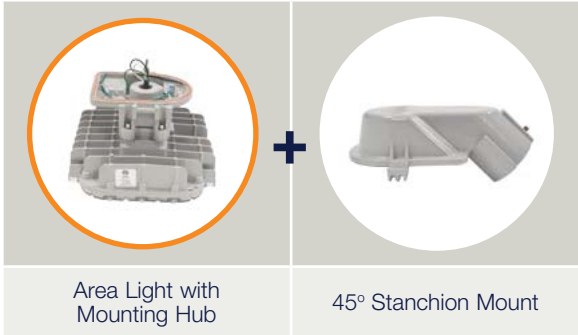


Ceiling & Wall Mounting



Mounting Options

Stanchion & Pole Mounting



|                                              |
|----------------------------------------------|
| Area Light with 45° Stanchion Mount          |
| Part Number: ALxxx2xDSNxGN                   |
| Suitable for: CID2, CII, CIII, NEMA 4X, IP66 |

|                                              |
|----------------------------------------------|
| Part Number: ALxxx2xDUNxGN + HZXS45          |
| Suitable for: CID2, CII, CIII, NEMA 4X, IP66 |

|                                              |
|----------------------------------------------|
| Area Light with 35mm Slip-fit Pole Mount     |
| Part Number: ALxxx2xDYNxGN                   |
| Suitable for: CID2, CII, CIII, NEMA 4X, IP66 |

|                                              |
|----------------------------------------------|
| Part Number: ALxxx2xDUNxGN + HZXC34          |
| Suitable for: CID2, CII, CIII, NEMA 4X, IP66 |

|                                                           |
|-----------------------------------------------------------|
| Part Number: ALxxx2xDSNxGN + HZXW3 + HZXSTANxxxx or HZXW4 |
| Suitable for: CID1, CID2, CII, CIII, NEMA 4X, IP66        |

Mounting Products



ALxxx2xDUNxGN



Wall Mount  
HZXW01



45° Wall Mount  
HZXW45



45° Stanchion Mount  
HZXS45



34mm Slip-fit Pole Mount  
HZXCV34

Fixtures are now available with a universal mounting adapter factory installed by adding UMA to the end of the part number. Choose from one of the four available mounting options:



Suitable for: CID2 • CIID1 • CIID2  
Certified to: UL 50E • CSA C22.2 No. 94.2-07

HZXSTAN100S

- 1.00" (1.315" Pole OD) Slip-fit stanchion mount

HZXSTAN125S

- 1.25" (1.660" Pole OD) Slip-fit stanchion mount

HZXSTAN150S

- 1.50" (1.900" Pole OD) Slip-fit stanchion mount

HZXSTAN200S

- 2.00" (2.375" Pole OD) Slip-fit stanchion mount

HZXSTAN100T

- 1.00" (1.315" Pole OD) NPT threaded stanchion mount

HZXSTAN125T

- 1.25" (1.660" Pole OD) NPT threaded stanchion mount

HZXSTAN150T

- 1.50" (1.900" Pole OD) NPT threaded stanchion mount

HZXSTAN200T

- 2.00" (2.375" Pole OD) NPT threaded stanchion mount



Suitable for: CID1 • CID2 • CIID1 • CIID2  
HZXW3

- Stainless steel bracket



Suitable for: CID1 • CID2 • CIID1 • CIID2  
HZXW4

- Stainless steel bracket with pipe clamp



Suitable for: CID2 • CIID1 • CIID2  
HZXSAFECBLS

- Safety cable kit



Suitable for: CID1  
Certified to: UL 50E • UL 1203  
ISA 12.12.01 • CSA C22.2 No. 94.2-07

HBXC1

- 0.75" NPT Ceiling mount



Suitable for: CID2  
Certified to: UL 50E • CSA C22.2 No. 94.2-07

HZXJB075

- 0.75" Ceiling / Wall / Pole mount junction box

HZXJB100

- 1.00" Ceiling / Wall / Pole mount junction box

HZXJB125

- 1.25" Ceiling / Wall / Pole mount junction box

HZXJB150

- 1.50" Ceiling / Wall / Pole mount junction box



Suitable for: CID2  
Certified to: UL 50E • CSA C22.2 No. 94.2-07

HZXJB075PC1

- 0.75" Junction box with photocell

HZXJB100PC1

- 1.00" Junction box with photocell

HZXJB125PC1

- 1.25" Junction box with photocell

HZXJB150PC1

- 1.50" Junction box with photocell

Universal Mounting Adapters

Two ways to buy...

1. Factory Installed for Work Site

| Purchase Brackets Factory Installed |                |               |                          |
|-------------------------------------|----------------|---------------|--------------------------|
|                                     |                |               |                          |
| 45° Stanchion Mount                 | 45° Wall Mount | Wall Mount    | 34mm Slip-Fit Pole Mount |
| ALxxx2xDSNxGN                       | ALxxx2xDWNxGN  | ALxxx2xDVNxGN | ALxxx2xDYNxGN            |

2. UMA Mounting Hub Compatible with All Four Mounting Options for Flexibility

Assembled with UMA adapter / For multiple applications and standardization efforts at your facility, you can order fixture with UMA adapter installed at the factory. This allows for use with any of our wall or stanchion mount top brackets which you can order separately and mate up in the field.

| Stock Area Lights with Universal Mounting Adapters & Brackets Sold Separately |                     |                |            |                          |
|-------------------------------------------------------------------------------|---------------------|----------------|------------|--------------------------|
|                                                                               |                     |                |            |                          |
| Area Light                                                                    | 45° Stanchion Mount | 45° Wall Mount | Wall Mount | 34mm Slip-Fit Pole Mount |
| ALxxx2xDUNxGN                                                                 | HZXS45              | HZXW45         | HZXW01     | HZXC34                   |

Retro-fit Options

Retro-fit adapters can be factory installed. See product N-chart for details.

- Eaton's Crouse-Hinds – Champ®
- Appleton® Mercmaster III
- Appleton® Mercmaster II
- Thomas & Betts Hazlux®
- Killark® Certilite® & Certilite® V
- GE Lighting Solutions – Filtr-Gard™

\*Petrolux adapter available as a standalonne accessory only



| Eaton's Crouse-Hinds – Champ® - HZXTHCH |         |      |           |            |
|-----------------------------------------|---------|------|-----------|------------|
| Pendant                                 | Ceiling | Wall | Stanchion | Quad Mount |
| APM2                                    | CM2     | TWM2 | JM5       | QM25       |
| APM3                                    | CM3     | TWM3 | PM5       |            |
| HPM2                                    |         |      |           |            |



| GE Lighting Solutions – Filtr-Gard™ - HZXTHGE |         |      |           |            |
|-----------------------------------------------|---------|------|-----------|------------|
| Pendant                                       | Ceiling | Wall | Stanchion | Quad Mount |
| 3P                                            | 3F      | 3C   | 3W        | 5S         |
| 4P                                            | 4F      |      | 4W        | 6S         |
|                                               |         |      |           | 5J, 6J     |



| Holophane® Petrolux II, III - HZXTHP3 |           |           |         |      |
|---------------------------------------|-----------|-----------|---------|------|
| Pendant                               | Universal | Stanchion | Ceiling | Wall |
| PD                                    | UN        | SA        | CD      | WL   |
| GH                                    |           | ST        | CE      | W    |
| P                                     |           | A         | B, C, D |      |

Retro-fit Options



| Thomas & Betts Hazlux® - HZXHTHB |                     |                    |                    |                    |
|----------------------------------|---------------------|--------------------|--------------------|--------------------|
| Pendant                          | Pendant Cone        | Flexible Pendant   | Ceiling            | Wall               |
| VP2                              | VA2                 | VF2                | VC2                | VB2                |
| VP3                              | VA3                 | VF3                | VC3                | VB3                |
| Wall                             | 25° Angle Stanchion | 25° AngleStanchion | Straight Stanchion | Straight Stanchion |
| VB2-VIB                          | VS4                 | VS4-VIB            | VL4                | VL4-VIB            |
| VB3-VIB                          | VS5                 | VS5-VIB            | VL5                | VL5-VIB            |



| Appleton® Mercmaster III - HZXTHAP |         |          |           |
|------------------------------------|---------|----------|-----------|
| Pendant                            | Ceiling | Wall     | Stanchion |
| KPA- 75, 100                       | KPC-75  | KPWB-75  | KPS-125   |
| KPAF-75, 100                       | KPC-100 | KPWB-100 | KPS-150   |
| KPCH-75, 100                       |         |          | KPST-125  |
|                                    |         |          | KPST-150  |



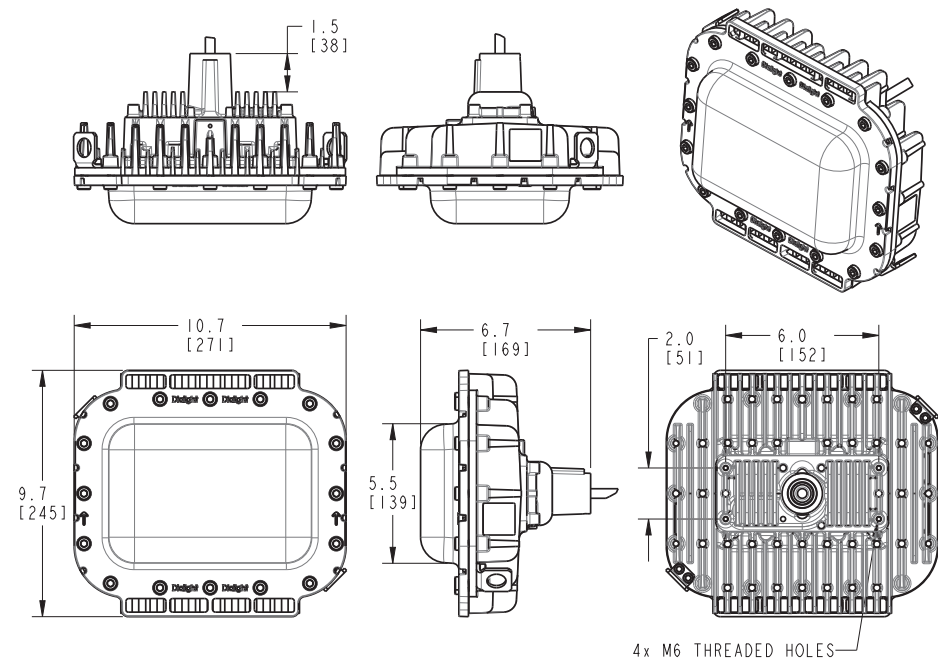
| Appleton® Mercmaster II - HZXTHM2 |         |          |           |
|-----------------------------------|---------|----------|-----------|
| Pendant                           | Ceiling | Wall     | Stanchion |
| LPA-75                            | LPC-75  | LPWB-75  | LPS-125   |
| LPA-100                           | LPC-100 | LPWB-100 | LPS-150   |



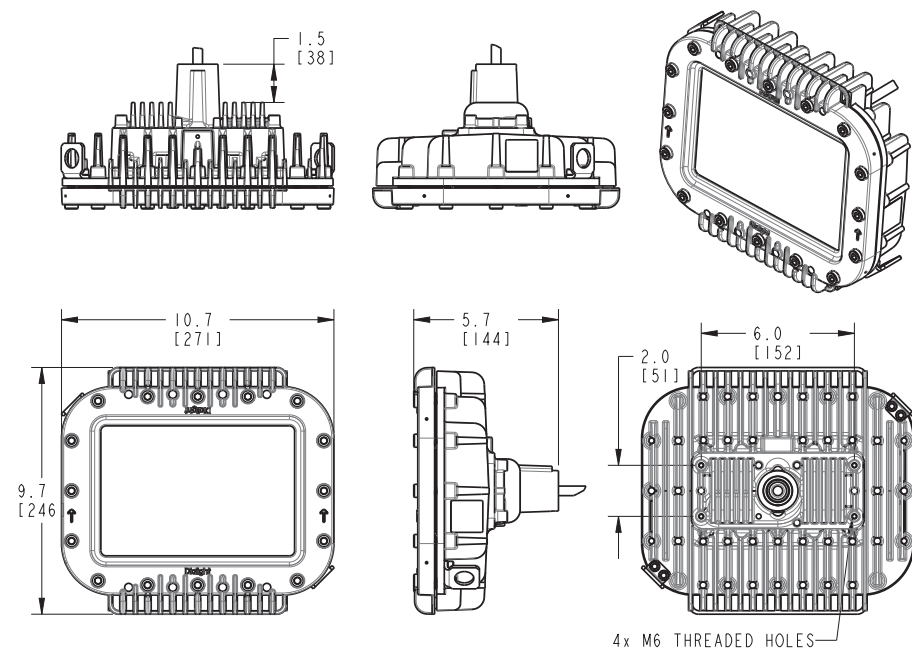
| Killark® Certilite® & Certilite® V - HZXTHKL |                   |               |           |
|----------------------------------------------|-------------------|---------------|-----------|
| Pendant                                      | Ceiling           | Wall          | Stanchion |
| VMA2B & VMA-2                                | VMX2B & VMX-2     | VMB2B & VMB-2 | VMD4B     |
| VMA3B & VMA-3                                | VMX3B & VMX-3     | VMB3B & VMB-3 | VMD5B     |
| VMC2B & VMC-2                                | VMX6B, 7B, 8B, 9B |               | VMS5B     |
| VMC3B & VMC-3                                |                   |               |           |
| VMF2B, 3B                                    |                   |               |           |

## Dimensional Drawings - Area Light

Polycarbonate Lens

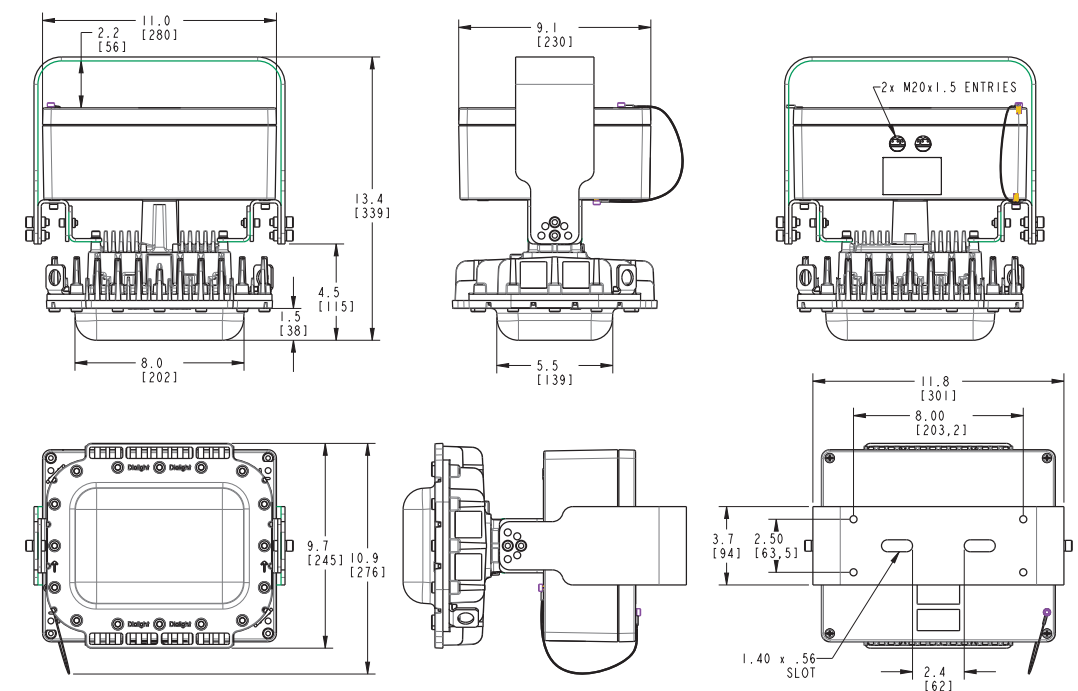


Tempered Glass Lens



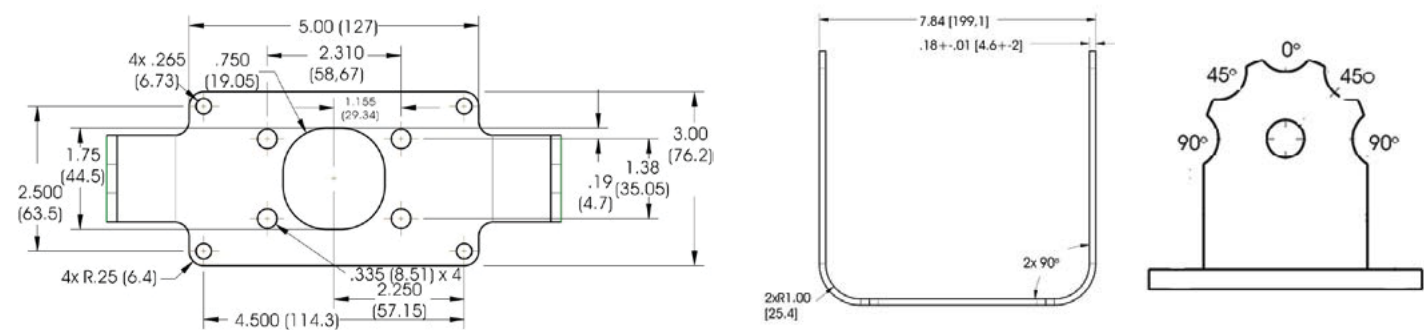
## Dimensional Drawings - Area Light

Battery Backup Model

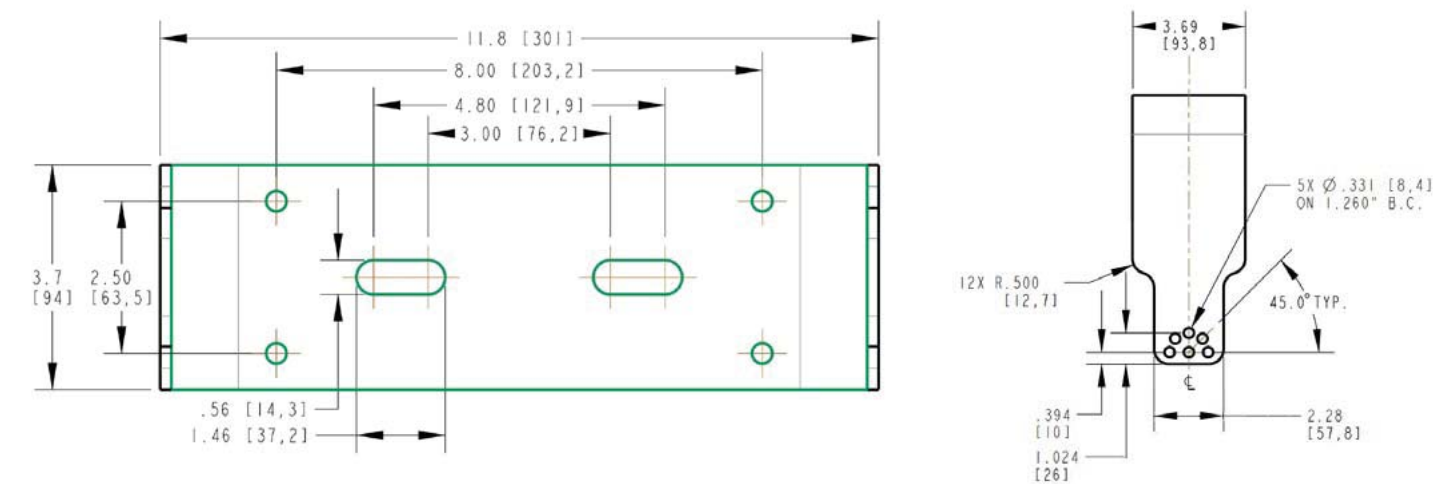


# Dimensional Drawings - Accessories

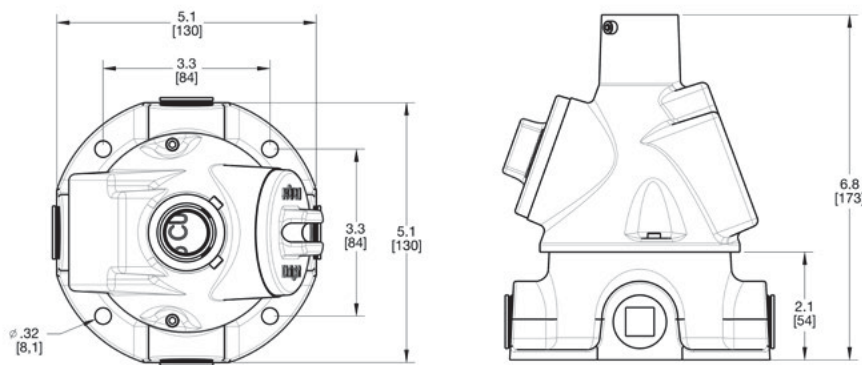
HZXW3, HZXW4, HZXW7, AND HZXW8  
.25" thick; HZXW4 and HZXW8 will mount to 1.5" conduit and comes with pipe mount clamps.



Battery Backup model bracket

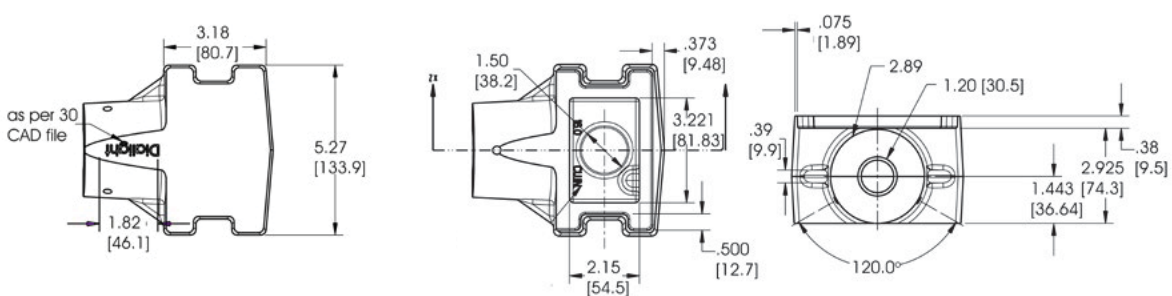


HBXC1 / HBXW1

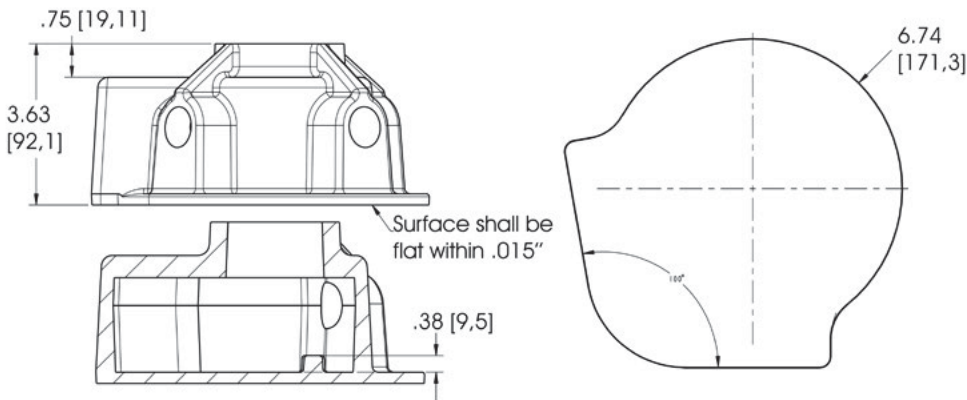
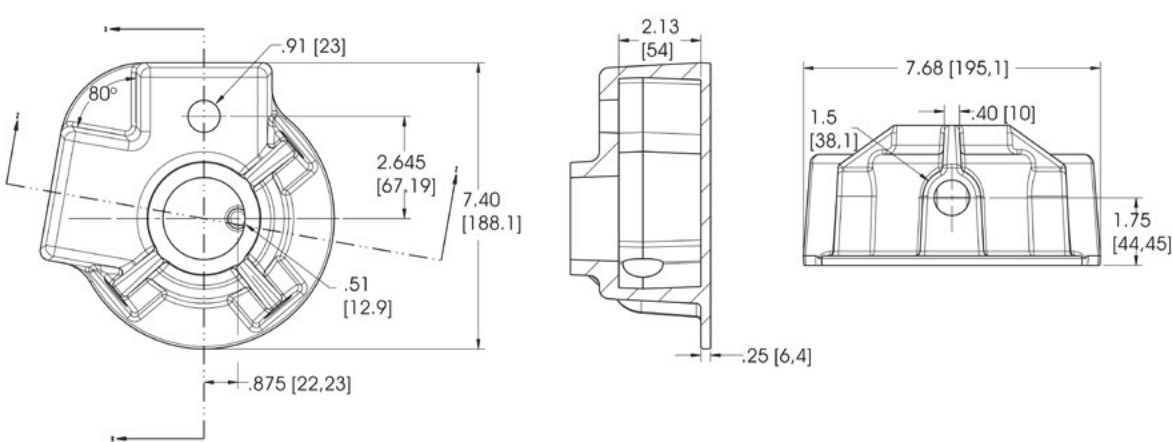


# Dimensional Drawings - Accessories

HZXSTANXXXX

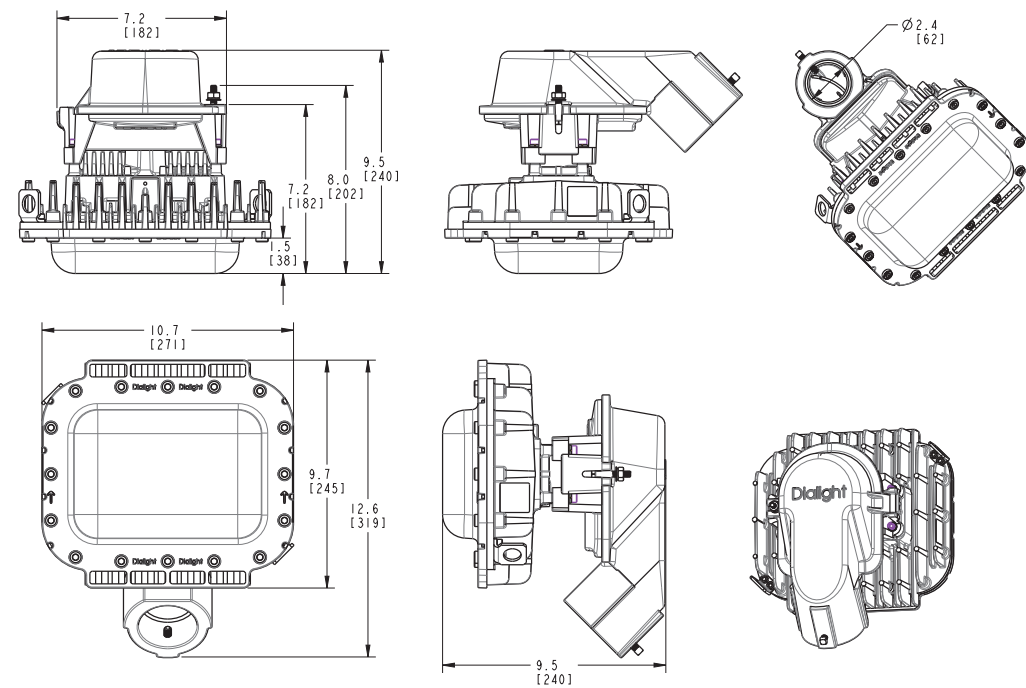


HZXJBXXX and HZXJBXXXXXX

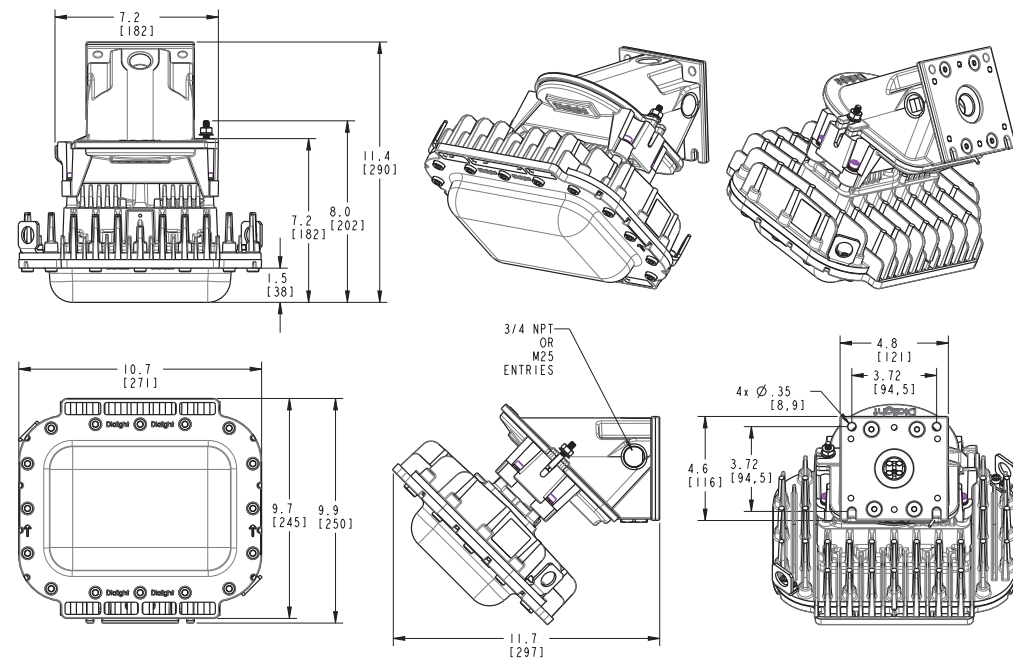


## Dimensional Drawings - Universal Mounting Adapters

45° Stanchion Mount



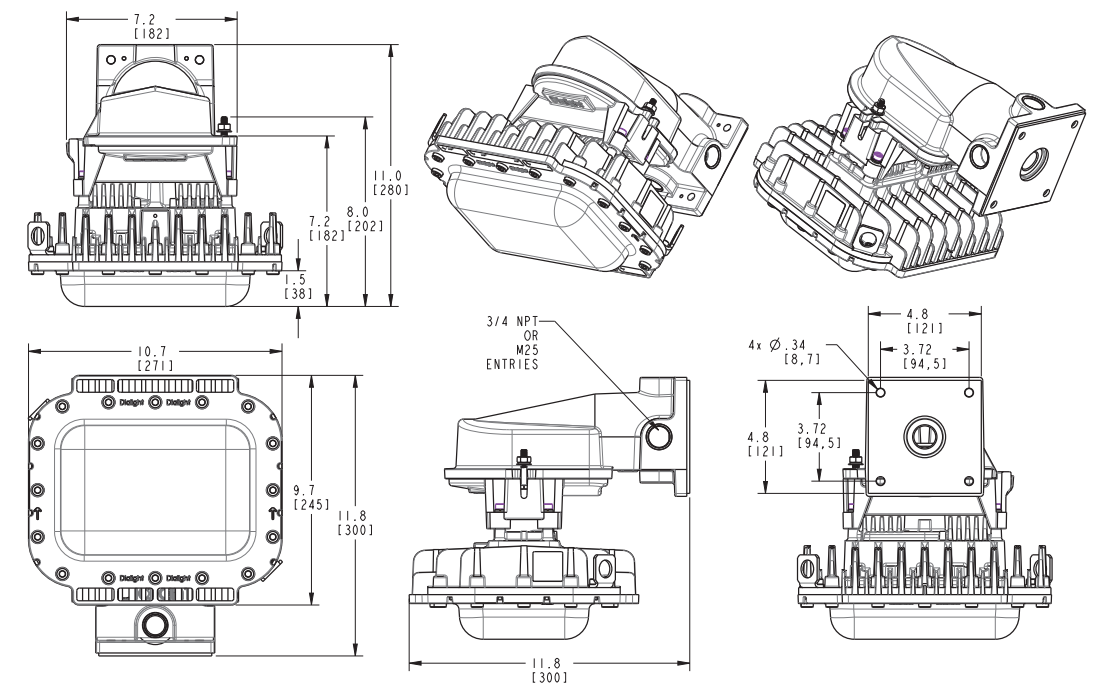
45° Wall Mount



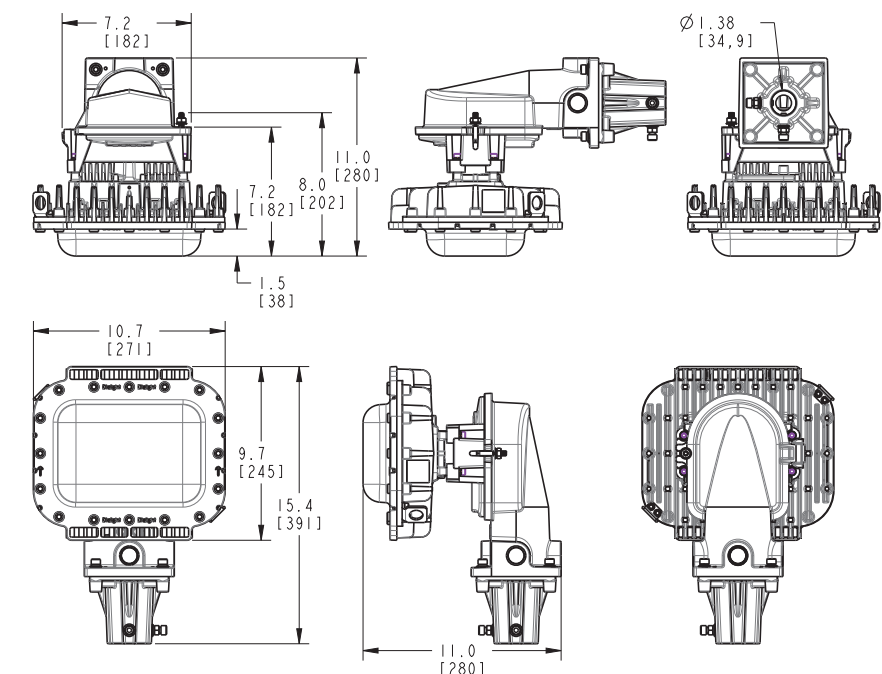
Dimensions in inches [mm]  
www.dialight.com

## Dimensional Drawings - Universal Mounting Adapters

Wall Mount



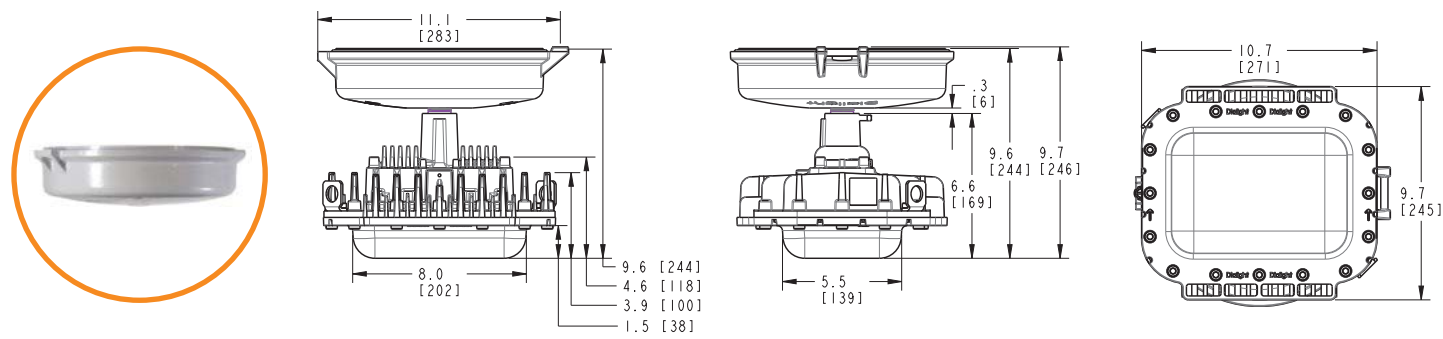
34mm Slip-Fit Pole Mount



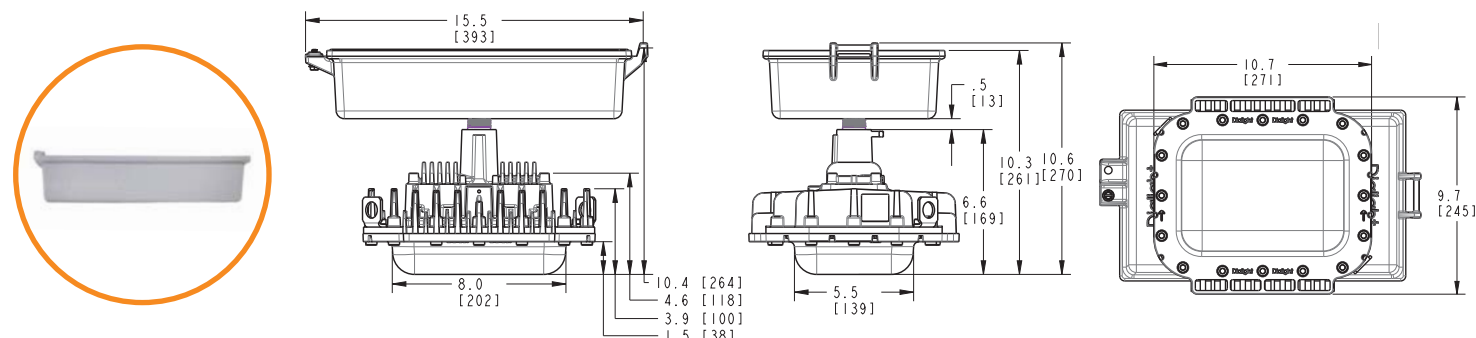
Dimensions in inches [mm]

# Dimensional Drawings - Retro-fit Kits

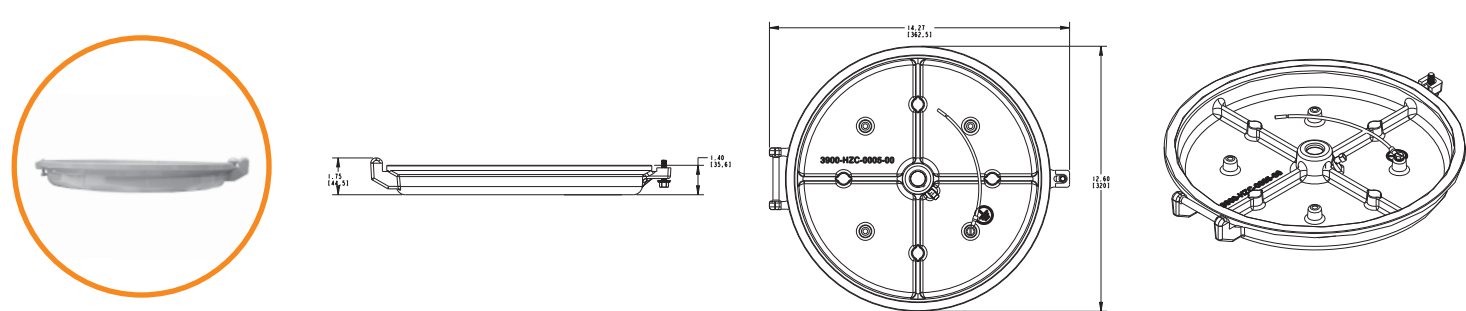
Eaton's Crouse-Hinds – Champ® - HZXTHCH



GE Lighting Solutions – Filtr-Gard™ - HZXTHGE



Holophane® Petrolux II, III - HZXTHP3

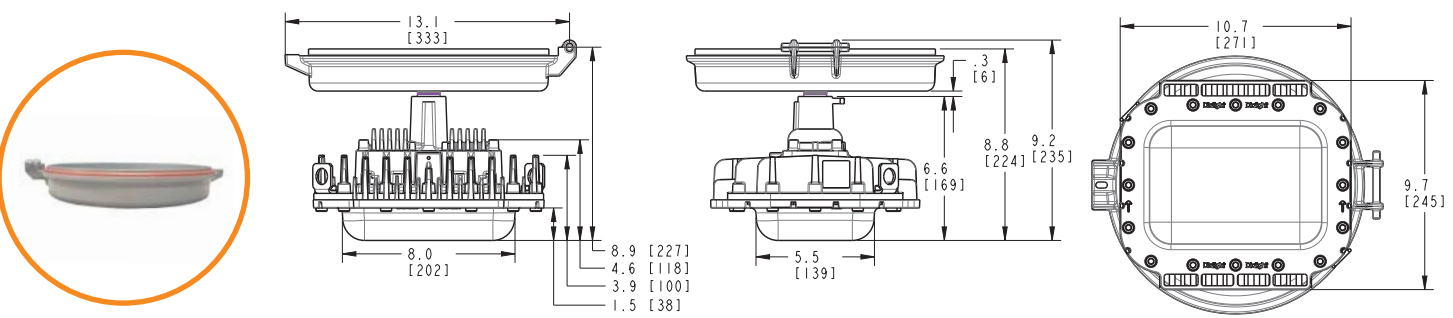


Dimensions in inches [mm]

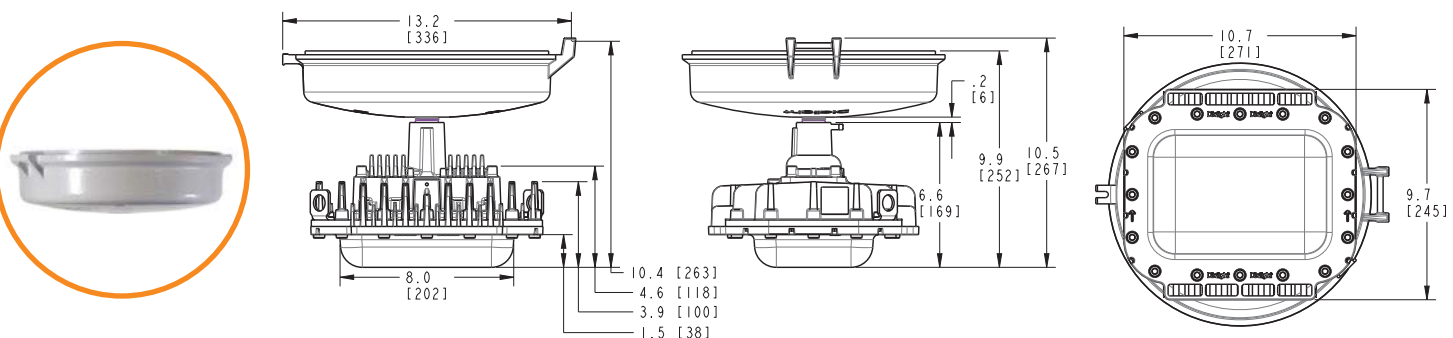
www.dialight.com

# Dimensional Drawings - Retro-fit Kits

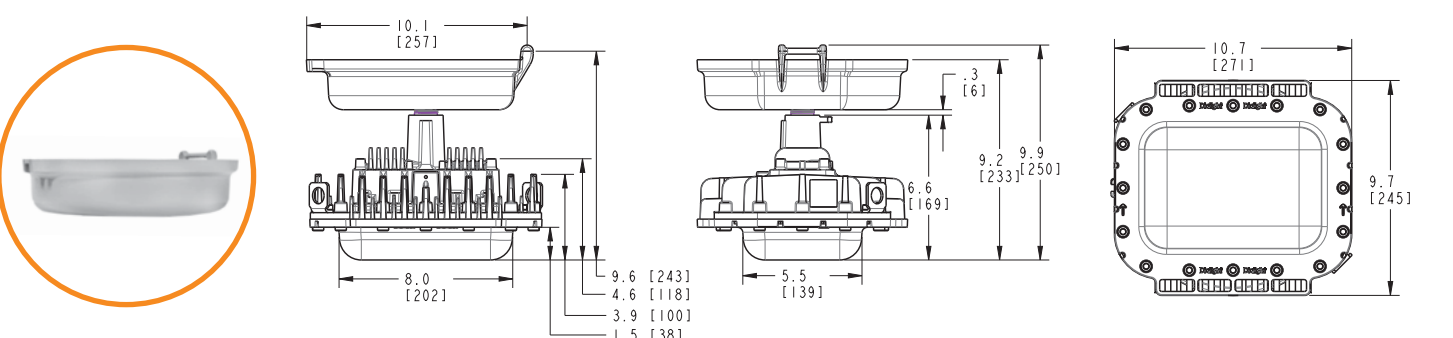
Thomas & Betts Hazlux® - HZXTHTB



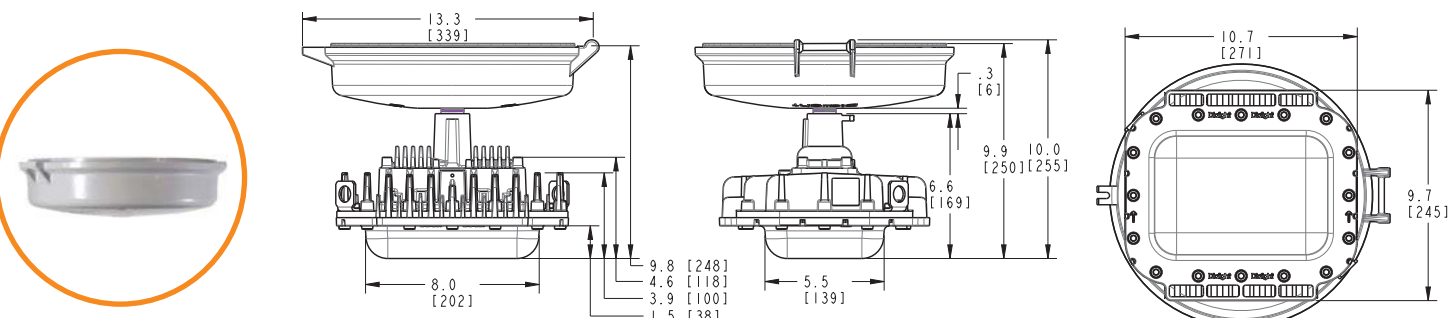
Appleton® Mercmaster III - HZXTHAP



Appleton® Mercmaster II - HZXTHM2



Killark® Certilite® & Certilite® V - HZXTHKL



www.dialight.com

## Hazardous Locations Ratings - UL

Fixed and portable fixtures for installation and use in hazardous (classified) locations Class I, Divisions 1 and 2, Groups A, B, C, and D; Class II, Division 1, Groups E, F, and G; Class II, Division 2, Groups F and G; and Class III, Divisions 1 and 2, in accordance with the National Electrical Code, NFPA 70

## Classes

The classes define the general nature of hazardous material in the surrounding atmosphere.

| Class     | Hazardous Material in Surrounding Atmosphere                                                                                                                                                                                                           |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Class I   | Hazardous because flammable gases or vapors are present in the air in quantities sufficient to produce explosive or ignitable mixtures                                                                                                                 |
| Class II  | Hazardous because combustible or conductive dusts are present                                                                                                                                                                                          |
| Class III | Hazardous because ignitable fibers or flying's are present, but not likely to be in suspension in sufficient quantities to produce ignitable mixtures. Typical wood chips, cotton, flax and nylon. Group classifications are not applied to this class |

## Divisions

The division defines the probability of hazardous material being present in an ignitable concentration in the surrounding atmosphere.

| Division   | Presence of Hazardous Material                                                                                             |
|------------|----------------------------------------------------------------------------------------------------------------------------|
| Division 1 | The substance referred to by class is present during normal conditions                                                     |
| Division 2 | The substance referred to by class is present only in abnormal conditions, such as a container failure or system breakdown |

## Groups

The group defines the hazardous material in the surrounding atmosphere.

| Group   | Hazardous Material in Surrounding Atmosphere                                                                                                                                                                                     |
|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Group A | Acetylene                                                                                                                                                                                                                        |
| Group B | Hydrogen, fuel and combustible process gases containing more than 30% hydrogen by volume or gases of equivalent hazard such as butadiene, ethylene, oxide, propylene oxide and acrolein                                          |
| Group C | Carbon monoxide, ether, hydrogen sulfide, morphine, cyclopropane, ethyl and ethylene or gases of equivalent hazard                                                                                                               |
| Group D | Gasoline, acetone, ammonia, benzene, butane, cyclopropane, ethanol, hexane, methanol, methane, vinyl chloride, natural gas, naphtha, propane or gases of equivalent hazard                                                       |
| Group E | Combustible metal dusts, including aluminum, magnesium and their commercial alloys or other combustible dusts whose particle size, abrasiveness and conductivity present similar hazards in connection with electrical equipment |
| Group F | Carbonaceous dusts, carbon black, coal black, charcoal, coal or coke dusts that have more than 8% total entrapped volatiles or dusts that have been sensitized by other material so they present an explosion hazard             |
| Group G | Flour dust, grain dust, flour, starch, sugar, wood, plastic and chemicals                                                                                                                                                        |

Reference:  
[http://www.engineeringtoolbox.com/hazardous-areas-classification-d\\_347.html](http://www.engineeringtoolbox.com/hazardous-areas-classification-d_347.html)

## Dialight's Industry Leading 5, 7 and 10 Year Warranties

At Dialight, we take great pride in the design and robust engineering of our products. We deeply understand the harsh environments that our customers depend on our fixtures to illuminate each day. That's why our fixtures are built specifically for longevity in these conditions.

We are the only industrial LED lighting supplier with fully-integrated products built for industrial applications, featuring custom in-house power supplies designed for long-life with superior temperature tolerance, vibration resistance and built-in surge protection. Additionally, our sealed fixtures prevent moisture and contaminants from causing failures or reducing lifespan.

We stand behind our industry leading warranties with proven real-world results in the world's most challenging environments and extensive quality control testing. Additionally, whilst some other manufacturers may require a minimum threshold of 10% or more of LED components to fail in order for a product to be defective, we do not require this because the safety and productivity of your work site is of paramount importance to us.

To learn more about our warranties, please visit [www.dialight.com](http://www.dialight.com)

## Notes

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.



## Dialight Vigilant® and DuroSite® Industrial / SafeSite® Hazardous Area: LED Solid State Lighting Fixture - Limited Warranty

### What does this warranty cover?

Dialight warrants solely to the original commercial end user ("Purchaser") of Dialight LED solid state lighting Fixture products ("Products"), that the Products will be free of significant defects in material and workmanship for a period of ten (10) years from the date of shipment of the Products by Dialight ("Warranty Period").

### This warranty does not cover:

- (1) Products that are subjected to abuse, misuse, neglect, negligence, accident, improper testing or service, improper installation or removal and reinstallation, improper storage, improper handling, improper repair, or use contrary to any written installation or maintenance guides issued by Dialight or made available on Dialight's website;
- (2) Non-material degradation or wear and tear of Products arising during standard authorized use;
- (3) Products that are subjected to (momentarily or continuously) abnormal physical stress, abnormal environmental conditions, exposure to foreign materials, exposure to chemical attack, exposure to excessive humidity, vibration, impact, extreme temperature, subject to electrical line noise, electric surge, voltage outside range, RF noise or other abnormal electrical stress;
- (4) Products that are reconstructed, repaired or altered by persons other than Dialight or a Dialight authorized representative;
- (5) Products that have been amended, repaired or modified using third party products or components not manufactured or supplied by Dialight;
- (6) Advice or assistance relating to the Products that Dialight provides free of charge as a gesture of goodwill to Purchaser;
- (7) Any defective Products where the defect has arisen as a result of Dialight following Purchaser's own drawings, specification or instructions;
- (8) Any third-party manufactured products attached to the Product, inserted in the Product or added to the Product network such as sensors, detectors, batteries or communication devices (such products are covered by the applicable manufacturer warranty). For the avoidance of doubt Dialight makes no representation or warranty with respect to any third-party products;
- (9) Any damage to or malfunction of the Product (including controls circuitry such as wired or wireless) or lighting network as a result of interference from an external device or system; and
- (10) Any security breach or hacking of the Product or lighting network through manual, wired or wireless intrusion or man in the middle attack.

### What will Dialight do to correct the problems?

If, upon the inspection and testing of the returned Products by Dialight, such Products are found to be defective and such defect has not been caused by the reasons set out above, Dialight shall repair, replace or refund (at Dialight's option) such Products.

### What must Purchaser do to make a valid claim?

- (1) Submit all alleged claims or defects within the Warranty Period for receipt by Dialight as soon as reasonably possible and in any event within thirty (30) days of discovery, in writing and with detail of the same;
- (2) Return (at Purchaser's own cost and expense) Products with a bill of sale or other evidence showing the date of purchase and identification of the original Purchaser; and

- (3) Prepay all of Dialight's costs and expenses (including risk of loss) for the delivery of all repaired or replaced Products to the Purchaser.

Compatibility of Dialight Products is highly dependent on environmental conditions and therefore, in abnormal conditions the Purchaser must undertake a compatibility assessment of their relevant site prior to the installation of the Product. Purchaser shall also retain and present to Dialight (on request), evidence of compatibility assessment under actual operating conditions.

### Warranty Limitations:

- (1) Timeframes: All repaired or replaced Products are warranted for the time remaining in the original Warranty Period of the original Product;
- (2) Replacements: Replacement Products will be equivalent in function, but not necessarily identical to the replaced Products;
- (3) No further Liability: Repair, replacement or refund as set forth in this warranty is the sole and exclusive remedy under this warranty or otherwise for Products' defects. Once Dialight has replaced, repaired or refunded the defective Products it shall have no further liability to the Purchaser in respect to the defect in that particular Product; and
- (4) **NO ADDITIONAL WARRANTY: EXCEPT FOR THE WARRANTIES CONTAINED HEREIN NEITHER DIALIGHT NOR ANY PERSON ON OUR BEHALF HAS MADE OR MAKES ANY EXPRESS OR IMPLIED REPRESENTATION OR WARRANTY WHATSOEVER, EITHER ORAL OR WRITTEN, INCLUDING ANY WARRANTIES OF MERCHANTABILITY, CONFORMANCE TO DESCRIPTION OR SAMPLE, FITNESS FOR A PARTICULAR PURPOSE, OR NON-INFRINGEMENT, WHETHER ARISING BY LAW, COURSE OF DEALING, COURSE OF PERFORMANCE, USAGE OF TRADE OR OTHERWISE, ALL OF WHICH ARE EXPRESSLY DISCLAIMED TO THE FULLEST EXTENT, AND PURCHASER ACKNOWLEDGES THAT IT HAS NOT RELIED UPON ANY REPRESENTATION OR WARRANTY MADE BY DIALIGHT, OR ANY OTHER PERSON ON DIALIGHT'S BEHALF, EXCEPT AS SPECIFICALLY PROVIDED IN THIS DOCUMENT.**

### What damages can't you claim for?

**IN NO EVENT SHALL DIALIGHT BE LIABLE FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL, EXEMPLARY, CONSEQUENTIAL OR PUNITIVE DAMAGES INCLUDING ANY DAMAGES FOR BUSINESS INTERRUPTION, LOSS OF USE, REVENUE, SAVINGS OR PROFITS, ARISING OUT OF BREACH OF CONTRACT, TORT (INCLUDING NEGLIGENCE AND STRICT PRODUCT LIABILITY) OR OTHERWISE REGARDLESS OF WHETHER SUCH DAMAGES WERE FORESEEABLE AND WHETHER OR NOT DIALIGHT, A DIALIGHT AUTHORIZED REPRESENTATIVE OR THE PURCHASER WAS ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.**

**THIS LIMITATION OF LIABILITY MAY NOT APPLY TO DAMAGES RELATING TO PERSONAL INJURY OR DEATH OR OTHER LIABILITIES IN JURISDICTIONS WHERE THE SAME MAY NOT BE DISCLAIMED AS A MATTER OF LAW.**

### How I make a claim under this warranty?

To obtain warranty service, Purchaser must obtain an RMA (Return Material Authorization) number and instructions on how and where to return the products from your local Dialight Customer Service department. Customers can also email our warranty mailbox at: warranties@dialight.com where you will be provided with further guidance as to the appropriate Dialight representative to contact.

**Please note if there is any conflict or inconsistency between the English language version of this warranty and any translated version (into any language whatsoever), the English language version shall prevail.**

# TYPE: P # XLCS-FT-LED-HO-50-UE-BLK-PCI120

## LED AREA LIGHTS - LSI SLICE SMALL (XLCS)



### 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](http://www.lightingfacts.com) for specific catalog strings.

| LIGHT OUTPUT - XLCS |    |                  |         |        |        |         |
|---------------------|----|------------------|---------|--------|--------|---------|
|                     |    | Lumens (Nominal) |         |        |        |         |
|                     |    | Type 3           | Type FT | Type 5 | Type5E | TypeFTE |
| Cool White          | SS | 10100            | 11400   | 11400  | 8200   | 7800    |
|                     | HO | 14000            | 15500   | 15700  | 11600  | 10600   |
| Neutral White       | SS | 9700             | 10400   | 10800  | 7900   | 7500    |
|                     | HO | 13400            | 14700   | 15200  | 11000  | 10500   |

LED Chips are frequently updated therefore values may increase.

US & Int'l. patents pending

**SMARTTEC™** - LSI drivers feature integral sensor which reduces drive current, when ambient temperatures exceed rated temperature.

**ENERGY SAVING CONTROL OPTION** - DIM - 0-10 volt dimming enabled with controls by others.

**EXPECTED LIFE** - Minimum 60,000 hours to 100,000 hours depending upon the ambient temperature of the installation location. See LSI web site for specific guidance.

**LEDS** - Select high-brightness LEDs in Cool White (5000K), or Neutral White (4000K) color temperature, 70 CRI.

**DISTRIBUTION/PERFORMANCE** - Types 3, FT, 5 and enhanced 5E and FTE. Exceptional uniformity creates bright environment at lower light levels. Internal Louver (IL) option available for improved backlight control without sacrificing street side performance for FT distribution.

**HOUSING** - One-piece, die-formed aluminum housing contains factory prewired driver. Wiring access door (with safety lanyard) located underneath.

**OPTICAL UNIT** - Clear tempered flat glass lens permanently sealed to weather-tight aluminum optic frame creates an IP65 rated optical unit (includes pressure-stabilizing breather).

**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. A round pole plate is required for mounting to round poles. Wall mount available by ordering wall mounting bracket (BKS-XBO-WM-\* -CLR). Proprietary pole quick mount accessories available with horizontal mounting or fixed 15° angled mounting (PQM-KIT-CLR and PQM15-KIT-CLR) for mounting to square poles. See Accessory Ordering Information chart for all brackets.

**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 button-type photocells (PCI) are available in 120, 208, 240, 277 or 347 volt (supply voltage must be specified).

**DRIVER** - Available in SS (Super Saver) and HO (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. Available in black, bronze and white. 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](http://www.lsi-industries.com) for detailed photometric data.

**SHIPPING WEIGHT (in carton)** - One fixture: 17.5 lbs. (7.9 kg). Packed two per carton: 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](http://www.designlights.org).

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

ARRA  
Funding Compliant



ROHS  
COMPLIANT



IP65

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



Project Name \_\_\_\_\_ Fixture Type \_\_\_\_\_

Catalog # \_\_\_\_\_

01/04/17

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LSI INDUSTRIES INC.

# TYPE: P # XLCS-FT-LED-HO-50-UE-BLK-PCI120

## LED AREA LIGHTS - LSI SLICE SMALL (XLCS)

### LUMINAIRE ORDERING INFORMATION

TYPICAL ORDER EXAMPLE: **XLCS S LED SS 50 UE BLK PCR**

| Prefix      | Distribution                                                                                                    | Light Source | Drive Current                               | Color Temperature               | Input Voltage                                                                                        | Finish                                            | Options                                                                                                                                                                                                            |
|-------------|-----------------------------------------------------------------------------------------------------------------|--------------|---------------------------------------------|---------------------------------|------------------------------------------------------------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>XLCS</b> | 3 - Type III<br>5 - Type V<br><b>FT - Forward Throw</b><br>5E - Type V Enhanced<br>FTE - Forward Throw Enhanced | <b>LED</b>   | SS - Super Saver<br><b>HO - High Output</b> | <b>50 - 5000K</b><br>40 - 4000K | <b>UE - Universal Voltage</b><br><b>(120-277V)</b><br><br>347-480<br>Universal Voltage<br>(347-480V) | <b>BLK - Black</b><br>BRZ - Bronze<br>WHT - White | DIM - 0-10V Dimming<br>(from external signal)<br><b>Button Type Photocells</b><br><b>PCI120 - 120V</b><br>PCI208-277V - 208-277V<br>PCI347 - 347V<br>IL - Internal Louver (available<br>with FT distribution only) |

### LUMINAIRE EPA CHART - PLCS

| Horizontal Mounting Only |     |
|--------------------------|-----|
| <b>Single</b>            | 0.4 |
| <b>D180°</b>             | 0.8 |
| <b>D90°</b>              | 0.6 |
| <b>T90°</b>              | 1.4 |
| <b>TN120°</b>            | 1.4 |
| <b>Q90°</b>              | 1.6 |

**Note:** House Side Shield adds to fixture EPA. Consult Factory.

### ACCESSORY ORDERING INFORMATION

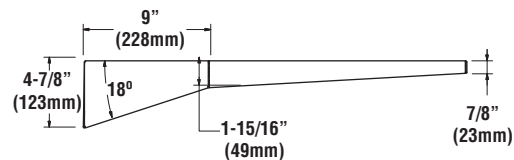
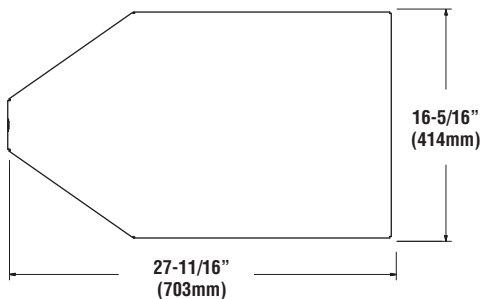
(Accessories are field installed)

| Description                                | Order Number           | Description                                                     |                          |
|--------------------------------------------|------------------------|-----------------------------------------------------------------|--------------------------|
| BKS-XBO-WM-* -CLR Wall Mount Bracket       | 382132CLR              | FK277 Single Fusing (277V)                                      | FK277 <sup>2</sup>       |
| XLCS-3/FT-HSS (Black only)                 | 603162BLK <sup>1</sup> | DFK208, 240 Double Fusing (208V, 240V)                          | DFK208, 240 <sup>2</sup> |
| X3RPP Round Pole Plate for 3" RTP Poles    | 408273CLR              | DFK480 Double Fusing (480V)                                     | DFK480 <sup>2</sup>      |
| <b>X4RPP Round Pole Plate for 4" Poles</b> | <b>379967CLR</b>       | FK347 Single Fusing (347V)                                      | FK347 <sup>2</sup>       |
| X5RPP Round Pole Plate for 5" Poles        | 379968CLR              | PQMH-KIT-CLR Square Pole Quick Mount Horizontal Bracket         | 582328CLR                |
| FK120 Single Fusing (120V)                 | FK120 <sup>2</sup>     | PQM15-KIT-CLR Square Pole Quick Mount Bracket w/fixed 15° Angle | 582329CLR                |

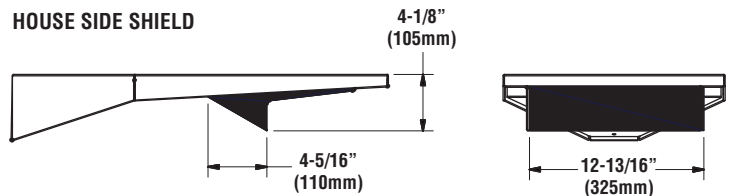
### FOOTNOTES:

- 1 - House Side Shields add to fixture EPA. Consult factory.
- 2 - Fusing must be located in the hand hole of pole.

### DIMENSIONS



### HOUSE SIDE SHIELD



Project Name \_\_\_\_\_ Fixture Type \_\_\_\_\_  
Catalog # \_\_\_\_\_

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# TYPE: P # XLCS-FT-LED-HO-50-UE-BLK-PCI120

## LED AREA LIGHTS - LSI SLICE SMALL (XLCS)

### BUG LISTING

#### XLCS - Type 3

| Drive Current | Color Temp.* | Lumens | Watts | LER | BUG Rating |
|---------------|--------------|--------|-------|-----|------------|
| HO            | CW           | 14,020 | 143   | 98  | B3-U0-G2   |
|               | CW-HSS       | 8815   | 146   | 60  | B2-U0-G2   |
|               | NW           | 13,421 | 143   | 94  | B3-U0-G2   |
| SS            | CW           | 10,126 | 97    | 105 | B3-U0-G2   |
|               | NW           | 9719   | 97    | 101 | B3-U0-G2   |

#### XLCS - Type 5E

| Drive Current | Color Temp.* | Lumens | Watts | LER | BUG Rating |
|---------------|--------------|--------|-------|-----|------------|
| HO            | CW           | 11,581 | 146   | 79  | B4-U0-G2   |
|               | NW           | 10,996 | 146   | 75  | B4-U0-G2   |
| SS            | CW           | 8202   | 96    | 85  | B3-U0-G2   |
|               | NW           | 7908   | 96    | 82  | B3-U0-G2   |

#### XLCS - Type 5

| Drive Current | Color Temp.* | Lumens | Watts | LER | BUG Rating |
|---------------|--------------|--------|-------|-----|------------|
| HO            | CW           | 15,674 | 138   | 113 | B4-U0-G2   |
|               | NW           | 15,184 | 146   | 104 | B4-U0-G2   |
| SS            | CW           | 11,449 | 96    | 119 | B3-U0-G2   |
|               | NW           | 10,762 | 96    | 112 | B3-U0-G1   |

#### XLCS - Type FTE

| Drive Current | Color Temp.* | Lumens | Watts | LER | BUG Rating |
|---------------|--------------|--------|-------|-----|------------|
| HO            | CW           | 10585  | 141   | 75  | B2-U0-G2   |
|               | CW-HSS       | 7810   | 146   | 53  | B1-U0-G2   |
|               | NW           | 10,499 | 146   | 72  | B2-U0-G2   |
|               | NW-HSS       | 7721   | 146   | 53  | B1-U0-G2   |
| SS            | CW           | 7752   | 96    | 81  | B1-U0-G2   |
|               | CW-HSS       | 5676   | 96    | 59  | B1-U0-G2   |
|               | NW           | 7493   | 96    | 78  | B1-U0-G2   |
|               | NW-HSS       | 5517   | 96    | 57  | B1-U0-G2   |

#### XLCS - Type FT

| Drive Current | Color Temp.* | Lumens | Watts | LER | BUG Rating |
|---------------|--------------|--------|-------|-----|------------|
| HO            | CW           | 15,535 | 139   | 112 | B3-U0-G2   |
|               | CW-HSS       | 12,489 | 139   | 90  | B1-U0-G2   |
|               | CW-IL        | 14,384 | 138   | 104 | B3-U0-G2   |
|               | NW           | 14,694 | 146   | 100 | B3-U0-G2   |
|               | NW-HSS       | 10,499 | 144   | 73  | B1-U0-G2   |
|               | NW-IL        | 12,763 | 144   | 89  | B2-U0-G2   |
| SS            | CW           | 11,383 | 96    | 118 | B2-U0-G2   |
|               | CW-HSS       | 9099   | 96    | 95  | B1-U0-G2   |
|               | CW-IL        | 10,509 | 96    | 109 | B2-U0-G2   |
|               | NW           | 10,410 | 96    | 108 | B2-U0-G2   |
|               | NW-HSS       | 7699   | 99    | 78  | B1-U0-G2   |
|               | NW-IL        | 9328   | 98    | 95  | B2-U0-G2   |

\* Color Temperature: NW-4000K, CW-5000K



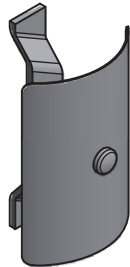
Project Name \_\_\_\_\_ Fixture Type \_\_\_\_\_  
Catalog # \_\_\_\_\_

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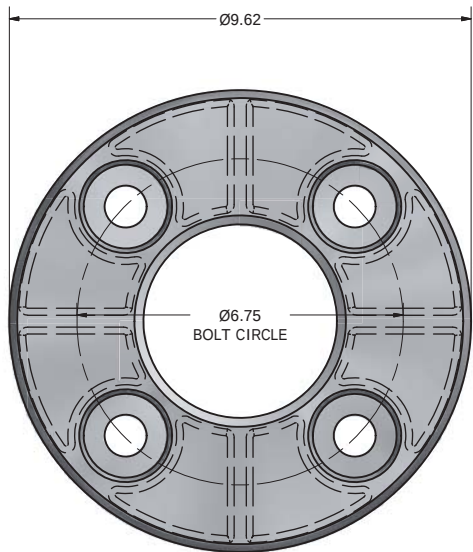
4

| POLE SHAFT SPECIFICATIONS        |                                                                                                                                                                                                                                   |                          |                  |                 |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|------------------|-----------------|
| NO.                              |                                                                                                                                                                                                                                   |                          |                  |                 |
| 1.                               | SHAFTS ARE ONE SECTION DESIGN FABRICATED FROM 6063 T6 ALUMINUM EXTRUSION-SPUN TAPERED.                                                                                                                                            |                          |                  |                 |
| 2.                               | BASE CASTING IS 356 T6 ALUMINUM. THE SHAFT TELESCOPES INTO THE BASE CASTING AND IS CIRCUMFERENTIALLY WELDED TOP AND BOTTOM.                                                                                                       |                          |                  |                 |
| 3.                               | ANCHOR BOLTS ARE "L" FORMED RODS HAVING A MINIMUM YIELD STRENGTH OF 55,000 P.S.I. FABRICATED FROM ASTM F1554 GR. 55 THEN FULLY GALVANIZED PER ASTM A153 SPECIFICATIONS AND FURNISHED COMPLETE WITH 2 HEX NUTS AND 2 FLAT WASHERS. |                          |                  |                 |
| D 4.                             | POLES SHALL HAVE A POLYESTER POWDER COAT FINISH IN A STANDARD COLOR.                                                                                                                                                              |                          |                  |                 |
| POLE DIMENSIONS                  |                                                                                                                                                                                                                                   |                          |                  |                 |
| POLE HGT (FT.)                   | TOP DIA. (IN.)                                                                                                                                                                                                                    | BOTTOM DIA. (IN.)        | GAGE             | MTG. HGT. (FT.) |
| 12'                              | 3.00                                                                                                                                                                                                                              | 4.00                     | .125             | 12'             |
| BASE PLATE DIMENSIONS            |                                                                                                                                                                                                                                   |                          |                  |                 |
| BOLT CIRCLE (IN.)                | BASE PLATE DIM. (IN.)                                                                                                                                                                                                             | BOLT HOLE (IN.)          | PLATE THK. (IN.) |                 |
| 6.75                             | 9.62                                                                                                                                                                                                                              | .88                      | .75              |                 |
| ANCHOR BOLT DIMENSIONS           |                                                                                                                                                                                                                                   |                          |                  |                 |
| ANCHOR BOLT DIA. (IN.)           |                                                                                                                                                                                                                                   | ANCHOR BOLT LENGTH (IN.) |                  |                 |
| .75                              |                                                                                                                                                                                                                                   | 20.00                    |                  |                 |
| ALLOWABLE WIND LOADING (SQ. FT.) |                                                                                                                                                                                                                                   |                          |                  |                 |
| WIND*                            | 80 MPH                                                                                                                                                                                                                            | 90 MPH                   | 100 MPH          | 120 MPH         |
| EPA                              | 7.2                                                                                                                                                                                                                               | 5.3                      | 3.9              | 2.0             |

\*WITH 1.3 GUST FACTOR



2.00 X 4.00 HAND HOLE COVER



Ø9.62 X 1.88 THK. BASE CASTING

lyte

poles

a DWM company

P.O. Box 340

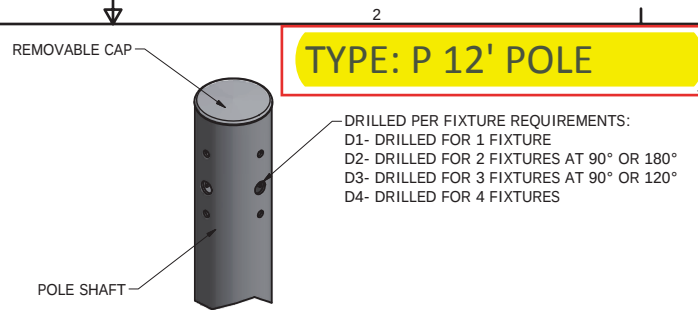
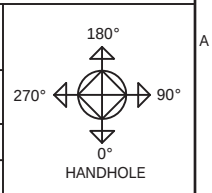
Eastpointe, MI 48021

P: (586) 771-4610 | F: (586) 771-5527

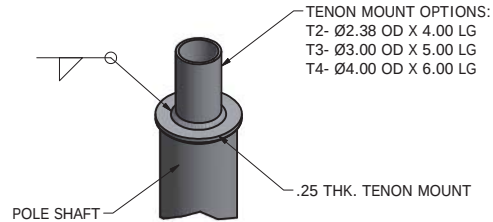
www.lytepoles.com

|                   |             |
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| DRAWN: M. HARVALA | 2/13/2015   |
| CHECKED           |             |
| REVISION:         | DATE:       |
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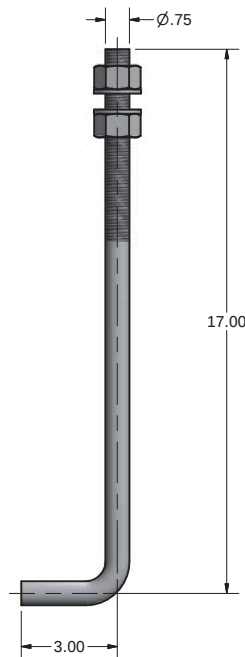
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| SOME GEOGRAPHICAL AREAS HAVE SPECIAL WIND CONDITIONS THAT CAN CREATE WIND INDUCED VIBRATIONS CAUSING A FATIGUE PROBLEM. NO METHOD HAS YET BEEN FOUND FOR PREDICTING DESTRUCTIVE LIGHTING POLE VIBRATION. THESE CONDITIONS ARE UNIQUE AND CANNOT BE GUARANTEED AGAINST, AND ARE THE RESPONSIBILITY OF A LOCAL SITE ENGINEER. |        |              |
| TITLE:                                                                                                                                                                                                                                                                                                                      |        |              |
| CATALOG:                                                                                                                                                                                                                                                                                                                    |        |              |
| DWG NO: 305-4012-12                                                                                                                                                                                                                                                                                                         | SIZE C | SHEET 1 OF 1 |



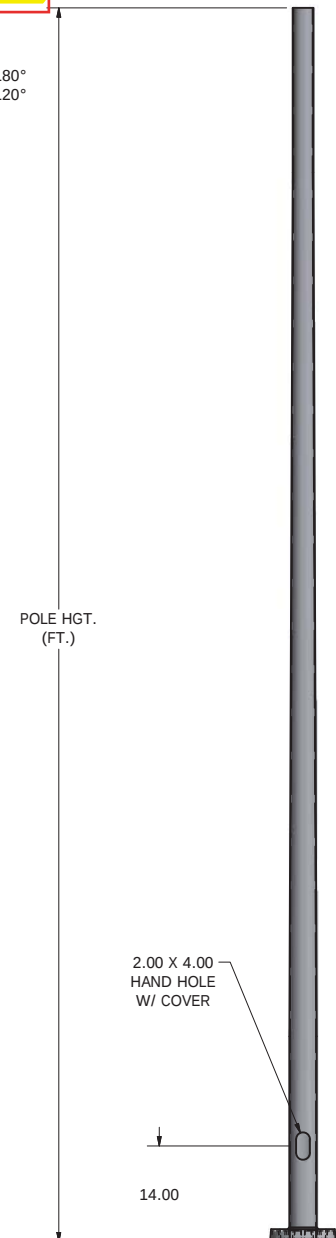
DRILLED MOUNTING OPTIONS



TENON MOUNT OPTIONS



Ø.75 X 20.00 ANCHOR BOLT



POLE DETAIL

# TYPE: P1 # XLCM-FT-LED-HO-CW-UE-BLK-PCI120

## LED AREA LIGHTS - LSI SLICE MEDIUM (XLCM)



### 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](http://www.lightingfacts.com) for specific catalog strings.

| LIGHT OUTPUT - XLCM |    |                  |         |        |        |         |
|---------------------|----|------------------|---------|--------|--------|---------|
|                     |    | Lumens (Nominal) |         |        |        |         |
|                     |    | Type 3           | Type FT | Type 5 | Type5E | TypeFTE |
| Cool White          | SS | 19900            | 22800   | 22900  | 15500  | 15800   |
|                     | HO | 27500            | 30900   | 31100  | 21200  | 21100   |
| Neutral White       | SS | 19300            | 20000   | 20600  | 15000  | 15000   |
|                     | HO | 26700            | 27800   | 28500  | 20100  | 20400   |

LED Chips are frequently updated therefore values may increase.

US & Int'l. patents pending

**SMARTTEC™** - LSI drivers feature integral sensor which reduces drive current, when ambient temperatures exceed rated temperature, providing typical operation for 100,000 hours (contact factory for TM-21 life estimate for specific configuration).

**ENERGY SAVING CONTROL OPTION** - DIM - 0-10 volt dimming enabled with controls by others. .

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

**DISTRIBUTION/PERFORMANCE** - Types 3, FT, FT-L, FT-R, 5, and enhanced 5E and FTE. FT-L and FT-R allow for D180 mounting configurations with factory set optics for applications such as automotive front row. Exceptional uniformity creates bright environment at lower light levels. Internal Louver (IL) option available for improved backlight control without sacrificing street side performance for FT distribution. Consult factory for internal louver for FT-L and FT-R applications.

**HOUSING** - One-piece, die-formed aluminum housing contains factory prewired driver. Wiring access door (with safety lanyard) located underneath.

**OPTICAL UNIT** - Clear tempered flat glass lens permanently sealed to weather-tight aluminum optic frame creates an IP65 rated optical unit (includes pressure-stabilizing breather).

**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. A round pole plate is required for mounting to round poles. Wall mount available by ordering wall mounting bracket (BKS-XBO-WM-\* -CLR). Proprietary pole quick mount accessories available with horizontal mounting or fixed 15° angled mounting (PQMH-KIT-CLR and PQM15-KIT-CLR) for mounting to square poles. Top mounted reinforcement bracket for high wind or vibration (up to 36) applications available as installed option or field-mount accessory.

**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 button-type photocells (PCI) are available in 120, 208, 240, 277 or 347 volt (supply voltage must be specified).

**DRIVER** - Available in SS (Super Saver) and HO (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. Available in black, bronze and white. 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](http://www.lsi-industries.com) for detailed photometric data.

**SHIPPING WEIGHT (in carton)** - One fixture: 25.25 lbs. (11.5 kg). Packed two per carton: 43.5 lbs. (19.7 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](http://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 # \_\_\_\_\_

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# TYPE: P1 # XLCM-FT-LED-HO-CW-UE-BLK-PCI120

## LED AREA LIGHTS - LSI SLICE MEDIUM (XLCM)

### LUMINAIRE ORDERING INFORMATION

TYPICAL ORDER EXAMPLE: **XLCM 5 LED SS CW UE BLK PCI120**

| Prefix      | Distribution                                                                                                                                                                                                                           | Light Source | Drive Current                               | Color Temperature                                            | Input Voltage                                                                        | Finish                                            | Options                                                                                                                                                                                                                                           |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|---------------------------------------------|--------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>XLCM</b> | 3 - Type III<br>5 - Type V<br><b>FT - Forward Throw</b><br>FT-L - Forward Optic Rotated for D180 Mount (Left Side)<br>FT-R - Forward Optic Rotated for D180 Mount (Right Side)<br>5E - Type V Enhanced<br>FTE - Forward Throw Enhanced | <b>LED</b>   | SS - Super Saver<br><b>HO - High Output</b> | <b>CW - Cool White</b> (5000K)<br>NW - Neutral White (4000K) | <b>UE - Universal Voltage</b> (120-277V)<br><br>347-480 Universal Voltage (347-480V) | <b>BLK - Black</b><br>BRZ - Bronze<br>WHT - White | DIM - 0-10V Dimming (from external signal)<br><b>Button Type Photocells</b> <b>PCI120 - 120V</b><br>PCI208-277V - 208-277V<br>PCI347 - 347V<br>IL - Internal Louver (available with FT distribution only)<br>HV - Vibration Reinforcement Bracket |

### LUMINAIRE EPA CHART - XLCM

|  |               |     |
|--|---------------|-----|
|  | <b>Single</b> | 0.5 |
|  | <b>D180°</b>  | 1.0 |
|  | <b>D90°</b>   | 0.8 |
|  | <b>T90°</b>   | 1.7 |
|  | <b>TN120°</b> | 1.7 |
|  | <b>Q90°</b>   | 1.9 |

**Note:** House Side Shield adds to fixture EPA. Consult Factory.

### ACCESSORY ORDERING INFORMATION

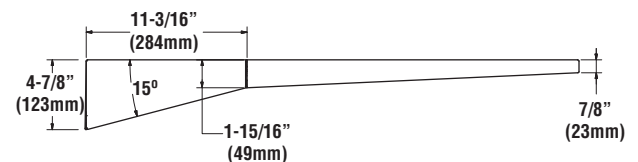
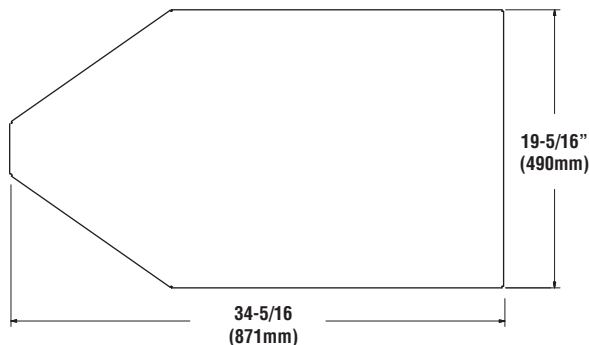
(Accessories are field installed)

| Description                                                                  | Order Number           | Description                                                     | Order Number             |
|------------------------------------------------------------------------------|------------------------|-----------------------------------------------------------------|--------------------------|
| BKS-XBO-WM-* - CLR Wall Mount Bracket                                        | 382132CLR              | FK120 Single Fusing (120V)                                      | FK120 <sup>2</sup>       |
| XLCM-3/FT-HSS RM External House Side Shield (Black only - rear mounted)      | 603159BLK <sup>1</sup> | FK277 Single Fusing (277V)                                      | FK277 <sup>2</sup>       |
| XLCM-FT-L/FT-R-HSS SM External House Side Shield (Black only - side mounted) | 603161BLK <sup>1</sup> | DFK208, 240 Double Fusing (208V, 240V)                          | DFK208, 240 <sup>2</sup> |
| X3RPP Round Pole Plate for 3" RTP Poles                                      | 408273CLR              | DFK480 Double Fusing (480V)                                     | DFK480 <sup>2</sup>      |
| <b>X4RPP Round Pole Plate for 4" Poles</b>                                   | <b>379967CLR</b>       | FK347 Single Fusing (347V)                                      | FK347 <sup>2</sup>       |
| X5RPP Round Pole Plate for 5" Poles                                          | 379968CLR              | PQMH-KIT-CLR Square Pole Quick Mount Horizontal Bracket         | 582328CLR                |
|                                                                              |                        | PQM15-KIT-CLR Square Pole Quick Mount Bracket w/fixed 15° Angle | 582329CLR                |
|                                                                              |                        | BKS-XLCM-HV-CLR Reinforcement Bracket                           | 625744CLR                |

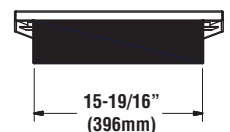
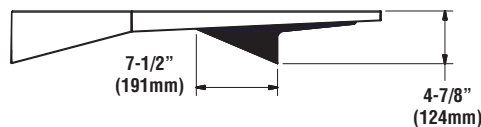
### FOOTNOTES:

- 1 - House Side Shields add to fixture EPA. Consult factory.
- 2 - Fusing must be located in the hand hole of pole.

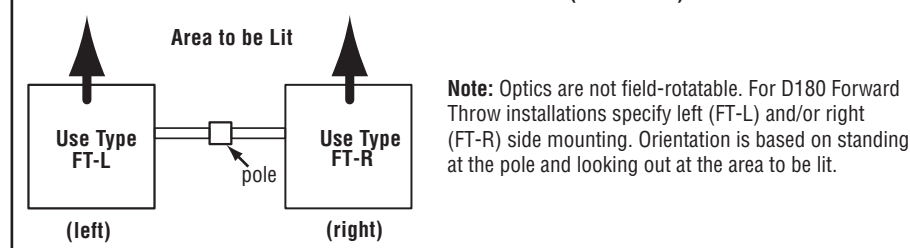
### DIMENSIONS



HOUSE SIDE SHIELD (rear mount)



### LEFT AND RIGHT VERSIONS OF TYPE FT REFLECTORS (TOP VIEW)



Project Name \_\_\_\_\_ Fixture Type \_\_\_\_\_  
Catalog # \_\_\_\_\_

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# TYPE: P1 # XLCM-FT-LED-HO-CW-UE-BLK-PCI120

## LED AREA LIGHTS - LSI SLICE MEDIUM (XLCM)

### BUG LISTING

#### XLCM - Type 3

| Drive Current | Color Temp.* | Lumens | Watts | LER | BUG Rating |
|---------------|--------------|--------|-------|-----|------------|
| HO            | CW           | 27,493 | 270   | 102 | B4-U0-G3   |
|               | CW-HSS       | 15,676 | 272   | 58  | B3-U0-G2   |
|               | NW           | 26,669 | 270   | 99  | B4-U0-G3   |
| SS            | CW           | 19,936 | 181   | 110 | B3-U0-G2   |
|               | NW           | 19,298 | 181   | 107 | B3-U0-G2   |

#### XLCM - Type 5E

| Drive Current | Color Temp.* | Lumens | Watts | LER | BUG Rating |
|---------------|--------------|--------|-------|-----|------------|
| HO            | CW           | 21,173 | 268   | 79  | B5-U0-G3   |
|               | NW           | 20,117 | 265   | 76  | B4-U0-G2   |
| SS            | CW           | 15,543 | 182   | 85  | B4-U0-G2   |
|               | NW           | 14,995 | 182   | 82  | B4-U0-G2   |

#### XLCM - Type 5

| Drive Current | Color Temp.* | Lumens | Watts | LER | BUG Rating |
|---------------|--------------|--------|-------|-----|------------|
| HO            | CW           | 31,142 | 276   | 113 | B4-U0-G3   |
|               | NW           | 28,532 | 268   | 106 | B4-U0-G2   |
| SS            | CW           | 22,884 | 192   | 119 | B4-U0-G2   |
|               | NW           | 20,575 | 181   | 114 | B4-U0-G2   |

#### XLCM - Type FTE

| Drive Current | Color Temp.* | Lumens | Watts | LER | BUG Rating |
|---------------|--------------|--------|-------|-----|------------|
| HO            | CW           | 21,127 | 268   | 79  | B3-U0-G4   |
|               | CW-HSS       | 14,636 | 272   | 54  | B1-U0-G3   |
|               | NW           | 20,387 | 265   | 77  | B3-U0-G4   |
|               | NW-HSS       | 14,033 | 265   | 53  | B1-U0-G3   |
| SS            | CW           | 15,790 | 182   | 87  | B2-U0-G3   |
|               | CW-HSS       | 10,798 | 182   | 59  | B1-U0-G3   |
|               | NW           | 15,073 | 182   | 83  | B2-U0-G3   |
|               | NW-HSS       | 10,296 | 182   | 57  | B1-U0-G2   |

#### XLCM - Type FT

| Drive Current | Color Temp.* | Lumens | Watts | LER | BUG Rating |
|---------------|--------------|--------|-------|-----|------------|
| HO            | CW           | 30,937 | 276   | 112 | B4-U0-G4   |
|               | CW-HSS       | 22,548 | 275   | 82  | B3-U0-G4   |
|               | CW-IL        | 28,801 | 284   | 101 | B3-U0-G4   |
|               | NW           | 27,814 | 273   | 102 | B3-U0-G3   |
|               | NW-HSS       | 18,311 | 273   | 67  | B2-U0-G3   |
|               | NW-IL        | 25,277 | 270   | 93  | B3-U0-G3   |
| SS            | CW           | 22,815 | 192   | 119 | B3-U0-G3   |
|               | CW-HSS       | 16,559 | 192   | 86  | B2-U0-G3   |
|               | CW-IL        | 20,618 | 192   | 107 | B3-U0-G3   |
|               | NW           | 19,985 | 181   | 111 | B3-U0-G3   |
|               | NW-HSS       | 13,192 | 181   | 73  | B2-U0-G3   |
|               | NW-IL        | 18,498 | 184   | 100 | B3-U0-G3   |

\* Color Temperature: NW-4000K, CW-5000K



Project Name \_\_\_\_\_ Fixture Type \_\_\_\_\_

Catalog # \_\_\_\_\_

01/04/17

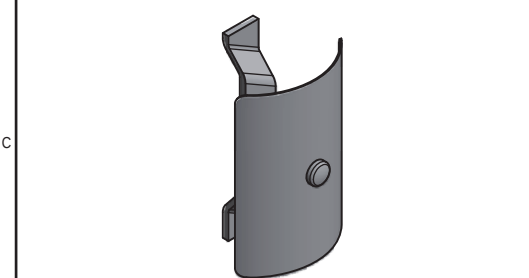
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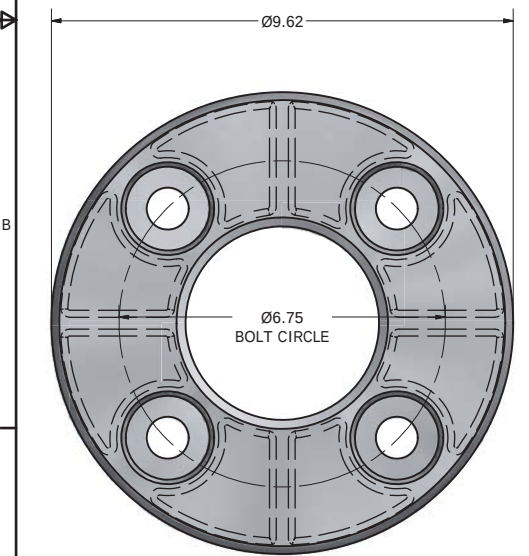
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| NO.                              | POLE SHAFT SPECIFICATIONS                                                                                                                                                                                                         |                       |                          |                   |  |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|--------------------------|-------------------|--|
| 1.                               | SHAFTS ARE ONE SECTION DESIGN FABRICATED FROM 6063 T6 ALUMINUM EXTRUSION-SPUN TAPERED.                                                                                                                                            |                       |                          |                   |  |
| 2.                               | BASE CASTING IS 356 T6 ALUMINUM. THE SHAFT TELESOPES INTO THE BASE CASTING AND IS CIRCUMFERENTIALLY WELDED TOP AND BOTTOM.                                                                                                        |                       |                          |                   |  |
| 3.                               | ANCHOR BOLTS ARE "L" FORMED RODS HAVING A MINIMUM YIELD STRENGTH OF 55,000 P.S.I. FABRICATED FROM ASTM F1554 GR. 55 THEN FULLY GALVANIZED PER ASTM A153 SPECIFICATIONS AND FURNISHED COMPLETE WITH 2 HEX NUTS AND 2 FLAT WASHERS. |                       |                          |                   |  |
| 4.                               | POLES SHALL HAVE A POLYESTER POWDER COAT FINISH IN A STANDARD COLOR.                                                                                                                                                              |                       |                          |                   |  |
| POLE DIMENSIONS                  |                                                                                                                                                                                                                                   |                       |                          |                   |  |
| POLE HGT (FT.)                   |                                                                                                                                                                                                                                   | TOP DIA. (IN.)        |                          | BOTTOM DIA. (IN.) |  |
| 12'                              |                                                                                                                                                                                                                                   | 3.00                  |                          | 4.00              |  |
|                                  |                                                                                                                                                                                                                                   |                       |                          | GAGE              |  |
|                                  |                                                                                                                                                                                                                                   |                       |                          | .125              |  |
|                                  |                                                                                                                                                                                                                                   |                       |                          | MTG. HGT. (FT.)   |  |
|                                  |                                                                                                                                                                                                                                   |                       |                          | 12'               |  |
| BASE PLATE DIMENSIONS            |                                                                                                                                                                                                                                   |                       |                          |                   |  |
| BOLT CIRCLE (IN.)                |                                                                                                                                                                                                                                   | BASE PLATE DIM. (IN.) |                          | BOLT HOLE (IN.)   |  |
| 6.75                             |                                                                                                                                                                                                                                   | 9.62                  |                          | .88               |  |
|                                  |                                                                                                                                                                                                                                   |                       |                          | PLATE THK. (IN.)  |  |
|                                  |                                                                                                                                                                                                                                   |                       |                          | .75               |  |
| ANCHOR BOLT DIMENSIONS           |                                                                                                                                                                                                                                   |                       |                          |                   |  |
| ANCHOR BOLT DIA. (IN.)           |                                                                                                                                                                                                                                   |                       | ANCHOR BOLT LENGTH (IN.) |                   |  |
| .75                              |                                                                                                                                                                                                                                   |                       | 20.00                    |                   |  |
| ALLOWABLE WIND LOADING (SQ. FT.) |                                                                                                                                                                                                                                   |                       |                          |                   |  |
| WIND*                            |                                                                                                                                                                                                                                   | 80 MPH                |                          | 90 MPH            |  |
| EPA                              |                                                                                                                                                                                                                                   | 7.2                   |                          | 5.3               |  |
|                                  |                                                                                                                                                                                                                                   |                       |                          | 100 MPH           |  |
|                                  |                                                                                                                                                                                                                                   |                       |                          | 3.9               |  |
|                                  |                                                                                                                                                                                                                                   |                       |                          | 120 MPH           |  |
|                                  |                                                                                                                                                                                                                                   |                       |                          | 2.0               |  |

\*WITH 1.3 GUST FACTOR



2.00 X 4.00 HAND HOLE COVER



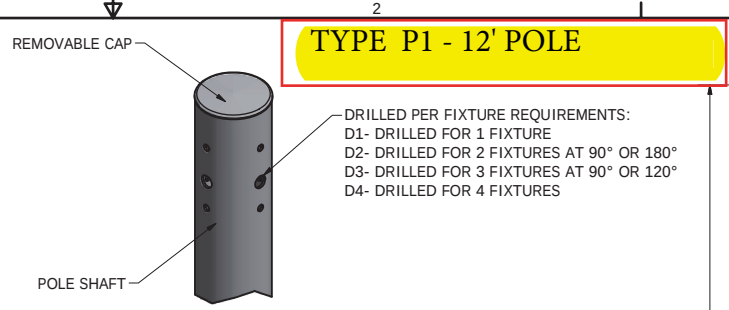
Ø9.62 X 1.88 THK. BASE CASTING

lyte  
poles

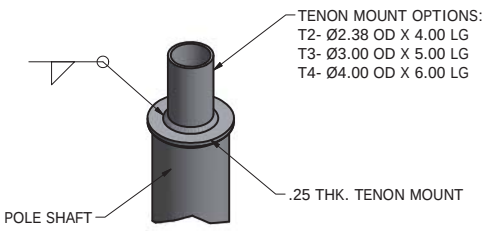
P.O. Box 340  
Eastpointe, MI 48021  
P: (586) 771-4610 | F: (586) 771-5527  
www.lytepoles.com

a DWM company

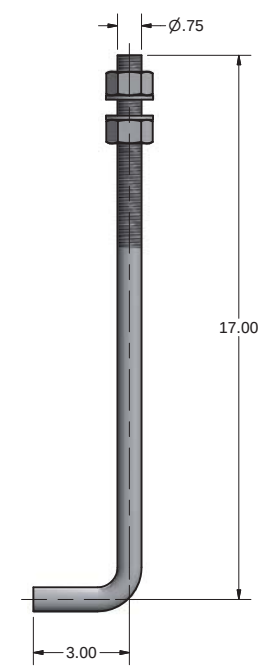
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| CHECKED:  |            |             |
| REVISION: |            | DATE:       |
| APPROVED: |            |             |
| QUOTE:    |            |             |
| S.O.#     |            |             |
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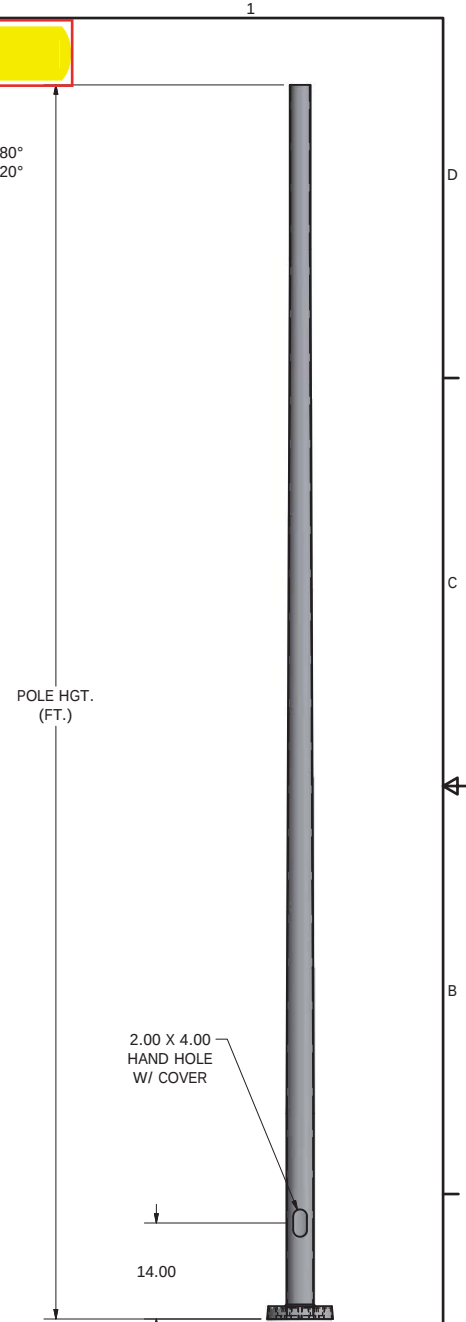
DRILLED MOUNTING OPTIONS



TENON MOUNT OPTIONS

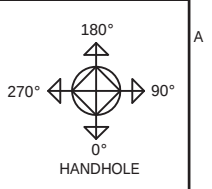


Ø.75 X 20.00 ANCHOR BOLT



POLE DETAIL

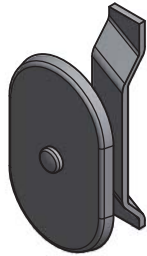
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|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------|
| SOME GEOGRAPHICAL AREAS HAVE SPECIAL WIND CONDITIONS THAT CAN CREATE WIND INDUCED VIBRATIONS CAUSING A FATIGUE PROBLEM. NO METHOD HAS YET BEEN FOUND FOR PREDICTING DESTRUCTIVE LIGHTING POLE VIBRATION. THESE CONDITIONS ARE UNIQUE AND CANNOT BE GUARANTEED AGAINST, AND ARE THE RESPONSIBILITY OF A LOCAL SITE ENGINEER. |             |      |
| TITLE:                                                                                                                                                                                                                                                                                                                      |             |      |
| CATALOG:                                                                                                                                                                                                                                                                                                                    |             |      |
| DWG NO:                                                                                                                                                                                                                                                                                                                     | 305-4012-12 |      |
| SIZE                                                                                                                                                                                                                                                                                                                        | C           |      |
| SHEET                                                                                                                                                                                                                                                                                                                       | 1           | OF 1 |



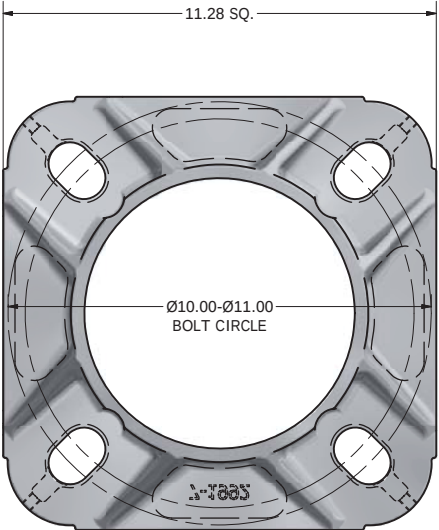
4

| POLE SHAFT SPECIFICATIONS        |                                                                                                                                                                                                                                       |                          |                  |                 |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|------------------|-----------------|
| NO.                              |                                                                                                                                                                                                                                       |                          |                  |                 |
| 1.                               | SHAFTS ARE ONE SECTION DESIGN FABRICATED FROM 6063 T6 ALUMINUM EXTRUSION-SPUN TAPERED.                                                                                                                                                |                          |                  |                 |
| 2.                               | BASE CASTING IS 356 T6 ALUMINUM. THE SHAFT TELESOPES INTO THE BASE CASTING AND IS CIRCUMFERENTIALLY WELDED TOP AND BOTTOM.                                                                                                            |                          |                  |                 |
| 3.                               | ANCHOR BOLTS ARE "L" FORMED RODS HAVING A MINIMUM YIELD STRENGTH OF 55,000 P.S.I. FABRICATED FROM ASTM F1554 GR. 55 THEN PARTIALLY GALVANIZED PER ASTM A153 SPECIFICATIONS AND FURNISHED COMPLETE WITH 2 HEX NUTS AND 2 FLAT WASHERS. |                          |                  |                 |
| 4.                               | POLES SHALL HAVE A POLYESTER POWDER COAT FINISH IN A STANDARD COLOR.                                                                                                                                                                  |                          |                  |                 |
| POLE DIMENSIONS                  |                                                                                                                                                                                                                                       |                          |                  |                 |
| POLE HGT. (FT.)                  | TOP DIA. (IN.)                                                                                                                                                                                                                        | BOTTOM DIA. (IN.)        | GAGE             | MTG. HGT. (FT.) |
| 25'                              | 4.50                                                                                                                                                                                                                                  | 7.00                     | .156             | 25'             |
| BASE PLATE DIMENSIONS            |                                                                                                                                                                                                                                       |                          |                  |                 |
| BOLT CIRCLE (IN.)                | BASE PLATE DIM. (IN.)                                                                                                                                                                                                                 | BOLT HOLE (IN.)          | PLATE THK. (IN.) |                 |
| 10.00-11.00                      | 11.28 SQ                                                                                                                                                                                                                              | 1.13                     | 1.00             |                 |
| ANCHOR BOLT DIMENSIONS           |                                                                                                                                                                                                                                       |                          |                  |                 |
| ANCHOR BOLT DIA. (IN.)           |                                                                                                                                                                                                                                       | ANCHOR BOLT LENGTH (IN.) |                  |                 |
| 1.00                             |                                                                                                                                                                                                                                       | 40.00                    |                  |                 |
| ALLOWABLE WIND LOADING (SQ. FT.) |                                                                                                                                                                                                                                       |                          |                  |                 |
| WIND*                            | 80 MPH                                                                                                                                                                                                                                | 90 MPH                   | 100 MPH          | 120 MPH         |
| EPA                              | 10.3                                                                                                                                                                                                                                  | 7.6                      | 5.9              | 3.7             |

\*WITH 1.3 GUST FACTOR



3.00 X 5.00 HAND HOLE COVER



11.28 X 11.28 X 3.38 THK. BASE CASTING

lyte

poles

a DWM company

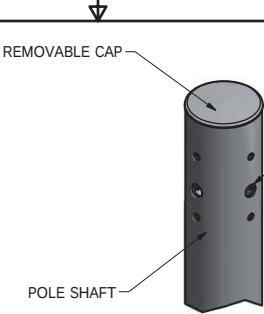
P.O. Box 340

Eastpointe, MI 48021

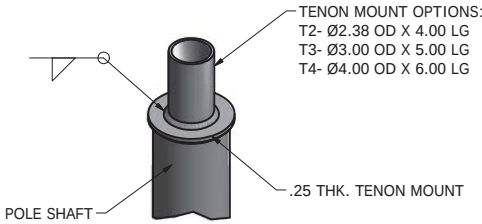
P: (586) 771-4610 | F: (586) 771-5527

www.lytepoles.com

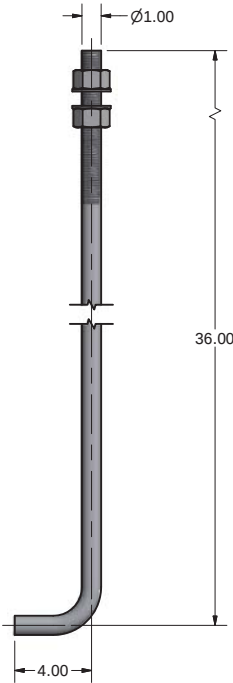
|           |            |             |
|-----------|------------|-------------|
| DRAWN:    | M. HARVALA | 2/13/2015   |
| CHECKED:  |            |             |
| REVISION: |            | DATE:       |
| APPROVED: |            |             |
| QUOTE:    |            |             |
| S.O.#     |            |             |
| REF:      |            | SCALE: NONE |



DRILLED MOUNTING OPTIONS



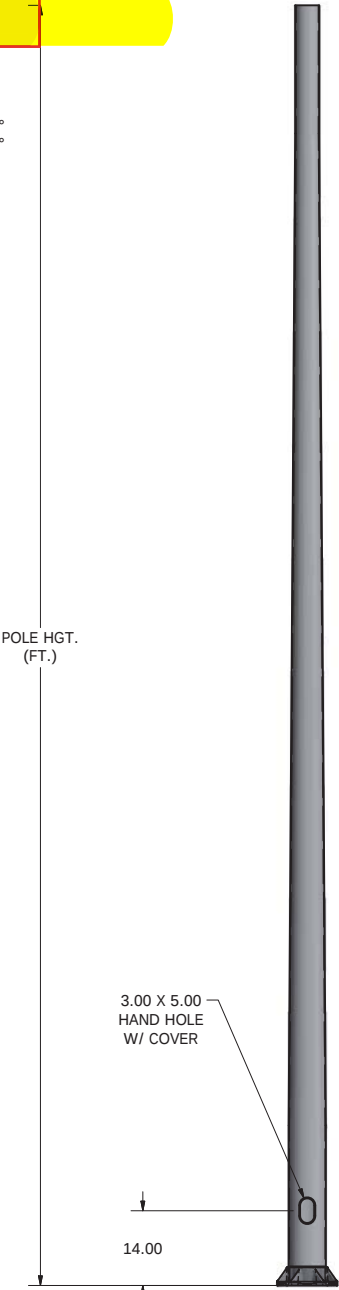
TENON MOUNT OPTIONS



Ø1.00 X 40.00 ANCHOR BOLT

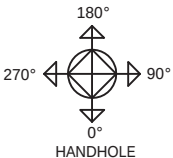
TYPE: P1-25' POLE

- DRILLED PER FIXTURE REQUIREMENTS:
- D1- DRILLED FOR 1 FIXTURE
  - D2- DRILLED FOR 2 FIXTURES AT 90° OR 180°
  - D3- DRILLED FOR 3 FIXTURES AT 90° OR 120°
  - D4- DRILLED FOR 4 FIXTURES



POLE DETAIL

|                                                                                                                                                                                                                                                                                                                             |             |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--|
| SOME GEOGRAPHICAL AREAS HAVE SPECIAL WIND CONDITIONS THAT CAN CREATE WIND INDUCED VIBRATIONS CAUSING A FATIGUE PROBLEM. NO METHOD HAS YET BEEN FOUND FOR PREDICTING DESTRUCTIVE LIGHTING POLE VIBRATION. THESE CONDITIONS ARE UNIQUE AND CANNOT BE GUARANTEED AGAINST, AND ARE THE RESPONSIBILITY OF A LOCAL SITE ENGINEER. |             |  |
| TITLE:                                                                                                                                                                                                                                                                                                                      |             |  |
| CATALOG:                                                                                                                                                                                                                                                                                                                    |             |  |
| DWG NO:                                                                                                                                                                                                                                                                                                                     | 405-7015-25 |  |
| SIZE                                                                                                                                                                                                                                                                                                                        | C           |  |
| SHEET 1 OF 1                                                                                                                                                                                                                                                                                                                |             |  |





# LSI Industries Limited Warranty

## LIMITED WARRANTY – LED Light Fixtures:

LSI Lighting Solutions warrants cataloged LED Light Fixtures and LED components manufactured by LSI against defects in materials and workmanship for a maximum period of 5 years from date of original shipment from LSI as follow:

- **Year 1** - LSI will replace, reimburse or credit 100% of the original purchase price of the defective components or light fixtures. LSI will pay directly or reimburse established labor costs or will utilize our network of certified contractors involved with the replacement or repair of defective LED components or complete light fixtures.
- **Years 2 – 5** – LSI will replace, reimburse or credit 100% of the original purchase price of the defective components or light fixtures. LSI will not reimburse or pay labor costs associated with replacement or repair of defective LED components and light fixtures.

At LSI's option, any product proven to be defective within the warranty periods described above will either be repaired, replaced, or credited. LSI reserves the right to replace defective fixtures or components utilizing the same or functionally similar products that are new, repaired or reconditioned. LSI WILL NOT HONOR ANY WARRANTY CLAIM WITHIN THE 5 YEAR WARRANTY PERIOD WITHOUT PRIOR WRITTEN APPROVAL. Contact our field service department at 1-800-436-7800 (ext. 3300) in order to obtain approval.

This warranty only covers items manufactured by LSI. This includes LED luminaires, Power Supplies and Modules. The above warranty does not include components or fixtures not manufactured by LSI. These items carry the warranty of their respective manufacturers. The paint finish warranty on LED light fixtures is listed below.

**LED MODULES** – Failure is defined as having 10% or more LEDs not illuminated in a light fixture. LEDs that fail within the manufacturer's warranty period will be exchanged. LSI will not honor a cash reimbursement claim to cover material charges for replacement material outside the first year from date of shipment. No charges for rental of equipment, travel time or labor will be accepted. LED modules are warranted for a period of 5 years; however the Warranty does not cover failures due to abnormal conditions. These abnormal conditions include, but are not limited to, under/over voltage, under/over current, excessive switching and excessive ambient temperatures. LSI reserves the right to determine what conditions are considered abnormal as a result of product failure.

## LIMITED WARRANTY – HID and Fluorescent Light Fixtures and Poles:

LSI Lighting Solutions warrants cataloged HID and Fluorescent Light Fixtures and Poles manufactured by LSI against defects in materials and workmanship for a period of 2 years from date of shipment. LSI will replace, reimburse or credit 100% of the original purchase price of the defective HID and Fluorescent light fixtures or poles. At LSI's option, any product proven to be defective within the 2 year warranty period will either be repaired or replaced utilizing the same or functionally similar product that is new, repaired or reconditioned. Replacement part warranty starts from the original order ship date. LSI will not reimburse or pay labor costs associated with replacing or repairing defective HID or Fluorescent light fixtures or poles.

**BALLASTS** - Ballasts, capacitors, and ignitors are warranted by the ballast manufacturers. Please check the manufacturer's published warranty for the ballast in question. Ballasts that fail within the manufacturer's warranty period will be exchanged by the local ballast manufacturers' authorized distributor or by LSI, acting as their agent. The ballast manufacturer or its agents will honor a cash reimbursement claim to cover material charges for replacement ballasts, capacitors, or ignitors.

**LAMPS** - Lamps are not manufactured by LSI and are specifically excluded from this warranty. No claims for replacement of defective lamps or labor associated with such replacement will be accepted. Contact the lamp manufacturer for warranty assistance.

**POLES** - All LSI poles are guaranteed to meet the EPA requirements listed. LSI is not responsible if a pole order has a lower EPA rating than the indicated wind-loading zone where the poles will be located. EPA ratings are for locations 100 miles away from hurricane ocean lines. Note: Hurricane ocean lines are the Atlantic and Gulf of Mexico coastal areas. For locations within the Hurricane zone, or areas outside the United States contact LSI for the pole EPA for your location. This warranty does not apply to fatigue damage or failure resulting from induced vibration and/or harmonic vibration caused by the movement of air currents around the product or by any other local condition.

BANNERS, FLAGS, STREAMERS, SIGNS AND OTHER EXTRANEIOUS ITEMS ATTACHED TO POLES VOIDS ALL POLE WARRANTIES AND MAY CREATE SEVERELY HAZARDOUS CONDITIONS. LSI accepts no responsibility for harm or damage caused in these situations.

## LIMITED WARRANTY – Light Fixture and Pole Paint Finishes

**POLE FINISHES** - LSI poles feature the Dura Grip® baked-on polyester-powder finishing process. The Pole finish is warranted for 5 years from date of shipment against cracking, peeling, chalking or fading. Dura Grip® Plus coated poles are warranted for a period of 7 years from the date of shipment.

**OUTDOOR FIXTURE FINISHES** - LSI fixtures feature the Dura Grip® baked-on polyester-powder finishing process. The fixture finish is warranted for a period of 5 years from date of shipment against cracking, peeling, chalking or fading.

**INDOOR FIXTURE FINISH** – The indoor fixture finish is warranted for normal indoor use for a period of 2 years from date of shipment.

**COMPOSITE FIXTURES** – Composite fixtures are warranted for a period of 5 year from date of shipment against corrosion

**CAUSTIC OR CORROSIVE ENVIRONMENTS** -Fixtures and Poles manufactured and painted by LSI may be damaged by highly caustic or corrosive environments. Such environments may include, but are not limited to, seashore and marine applications, chemical processing facilities, highly watered or fertilized environments and car washes. While many of LSI's products can be safely applied in these locations, their useful life, including the painted surfaces, may be reduced due to the conditions found in these harsh environments. LSI cannot warrant its products against these severe conditions.

**FIXTURE AND POLE PAINT FINISH WARRANTY CLAIMS** - If during the warranty period the exterior coating shows signs of failure, the Buyer must notify LSI in writing and furnish proof of purchase within 60 days of such failure or deterioration becoming evident. Components will be repaired or replaced at the discretion of LSI. LSI will, at its option, reimburse the customer for the cost to repair the components or will make replacement components available from LSI's factory. Transportation, removal, and installation costs are not included in the replacement.

## TERMS AND CONDITION OF LIMITED WARRANTY:

**PROPER INSTALLATION** - LSI will warrant Light fixtures, components or poles provided products are properly installed following the directions in the product's installation instructions, in their intended application and used in compliance with all applicable local, state and national safety regulations and codes. LSI will not warrant products damaged due to installer connections and/or assembly errors.

**EXCLUDED FROM LSI LIMITED WARRANTY:** Both limited warranties only cover items manufactured by LSI. The above limited warranties also do not include equipment and components not manufactured by LSI (See above limited warranties). These items carry the warranty of their respective manufacturers. The Limited Warranty also excludes damage or failure caused by acts of God, falling objects, explosion, fire, misuse or abuse in application (see product spec sheets for application guidelines), or any other such occurrences beyond LSI's control are also not warranted. No charges for rental of equipment, travel time or labor will be accepted.

**ELIGIBILITY-** The limited warranty may be transferred to subsequent purchasers of the product, provided that the product is resold in new condition and in its original packaging.

**MAINTENANCE** – Poles and Light Fixtures must be inspected and maintained at least annually. Repair of the finish along with structural and electrical components must be conducted on a regular basis to ensure a safe and attractive product.

**PROPER HANDLING AND STORAGE-**LSI shall claim the warranty to be null and void if the coating fails due to circumstances beyond its control including damage during shipping, handling, unpacking, or installation; damage caused by moisture or other contaminants entrapped between protective packaging materials and coated surface, thus constituting improper storage, prior to placement in service; damage or failure caused by acts of God, falling objects, external forces, explosion, fire, misuse or abuse in application, or any other such occurrences beyond LSI's control.

**RIGHT TO EXAMINE-** LSI Industries reserves the right to examine all products and/or any associated component to determine the cause of failure and pattern of usage. LSI may require the material be returned to LSI, as part of the evaluation process. LSI Industries reserves the right to be the sole judge as to whether any items and components are defective and or covered under this warranty.

**CHANGES** - LSI reserves the right to make modifications or changes to any of its products, pricing, *Limited Warranty* and *Terms and Conditions* without prior notice.

This warranty is exclusive in lieu of all other warranties whether written, oral, expressed or implied and shall constitute the sole and exclusive remedy of Buyer and liability of LSI. LSI is not liable nor warrants the installers and their installation LSI's products are not sold as a "consumer product" under 15U.S.C. 2301.

Effective Date: 12/15/2014



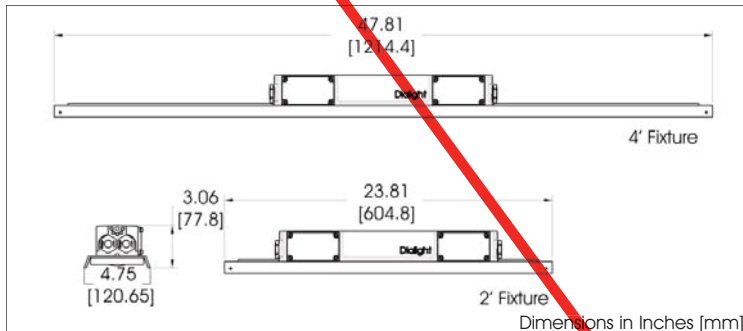
**DuroSite® LED Linear Fixture - UL / CSA**  
for Indoor and Outdoor Industrial Applications





## DuroSite® LED Linear Fixture

Low profile



### Certifications & Ratings

- UL 1598/A
- UL 8750
- CSA 22.2 No.250.0
- IP 66/67
- NEMA 4X

### Features & Benefits

- 5 year full performance warranty
- L70 rated for > 100,000 hours @ 25°C
- DLC Listed (80 CRI CW & NW models only)
- Instant on/off operation
- Resistant to water, salt, dust & vibration
- Resistant up to 20 PSI of hose directed water
- Universal input (100-277V AC), 50/60Hz
- Mercury free
- Temperature compensation technology for longer life
- Factory sealed
- Integrated wiring box
- Low profile housing for limited space applications
- Dual NPT entries for in / out wiring
- Thru wiring capability

### Application

Dialight's DuroSite® LED linear fixture replaces HID and fluorescent lighting fixtures in industrial applications. The DuroSite® LED Linear fixture's rugged solid state design makes it highly resistant to shock and vibration. Its fully gasketed IP 66 rated enclosure makes it suitable for dusty & wet locations, its 1598/A rating guarantees added protection from salt water spray. The DuroSite® LED Linear's superior design allows for wiring and mounting versatility and ease of installation for many lighting applications.

### Mechanical Information

|                  |                                        |
|------------------|----------------------------------------|
| Fixture Weight:  | 10 lbs (4.50 kg) 4'                    |
|                  | 7 lbs (3.13 kg) 2'                     |
| Shipping Weight: | 11 lbs (4.90 kg) 4'                    |
|                  | 8 lbs (3.64 kg) 2'                     |
| Mounting:        | (4) 3/4" NPT openings                  |
|                  | Optional swivel bracket - LPXW4        |
|                  | Optional low profile bracket - LPXW4LP |

### Electrical Specifications

|                          |                                                                                     |
|--------------------------|-------------------------------------------------------------------------------------|
| Operating Voltage:       | 100 - 277V AC 50/60Hz                                                               |
| Power Consumption:       | See ordering information                                                            |
| Operating Temp:          | -40°F to +149°F (-40°C to +65°C)                                                    |
| Harmonics:               | IEC 61000-3-2                                                                       |
| Noise Requirements/ EMC: | FCC Title 47, Subpart B, Section 15, class A device. RF Immunity; 10V/m, 80MHz-1GHz |
| Surge Protection:        | EN 61000-4-5                                                                        |
|                          | 4 kV line to line                                                                   |
|                          | 4 kV line to ground                                                                 |

THD: < 20%

Power Factor: > 0.9

Power supply equipped with inline fuse

### Construction

|       |                        |
|-------|------------------------|
| Body: | Powder coated aluminum |
| Lens: | Polycarbonate          |

### Photometric Information

|            |                        |
|------------|------------------------|
| CRI:       | 75 , 80                |
| CCT:       | 5000K (cool white)     |
|            | 4000K (neutral white)  |
| IES Files: | Available upon request |

All values typical unless otherwise stated  
All lumen values are typical (tolerance +/- 10%)

## Mounting Options

LPXW4LP



Side Mount - LPXW4



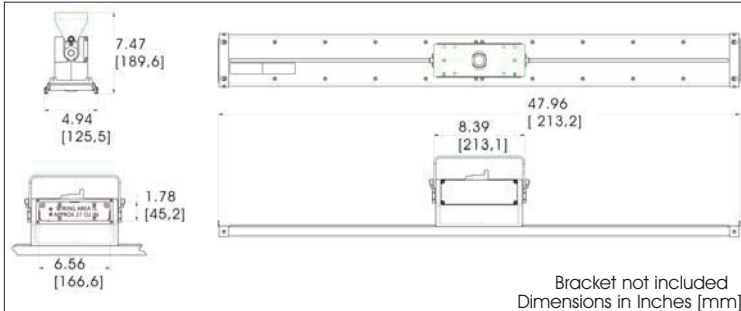
Top Mount - LPXW4





## DuroSite® LED Linear Fixture

### Top Conduit Mounting



#### Certifications & Ratings

- UL 1598/A
- UL 8750
- CSA 22.2 No.250.0
- IP 66
- NEMA 4X

#### Features & Benefits

- 5 year full performance warranty
- L70 rated for > 100,000 hours @ 25°C
- Instant on/off operation
- Resistant to water, salt, dust & vibration
- Resistant up to 20 PSI of hose directed water
- Universal input (100-277V AC), 50/60Hz
- Mercury free
- Temperature compensation technology for longer life
- Factory sealed
- Integrated wiring box

#### Application

Dialight's DuroSite® LED linear fixture replaces HID and fluorescent lighting fixtures in industrial applications. The DuroSite® LED Linear fixture's rugged solid state design makes it highly resistant to shock and vibration. Its fully gasketed IP 66 rated enclosure makes it suitable for dusty & wet locations, its 1598/A rating guarantees added protection from salt water spray. The DuroSite® LED Linear's superior design allows for mounting versatility and ease of installation for many lighting applications.

#### Mechanical Information

|                  |                                        |
|------------------|----------------------------------------|
| Fixture Weight:  | 11 lbs (4.99 kg) 4'                    |
|                  | 10 lbs (4.53 kg) 2'                    |
| Shipping Weight: | 13 lbs (5.90 kg) 4'                    |
|                  | 12 lbs (5.44 kg) 2'                    |
| Mounting:        | (3) 3/4" NPT openings                  |
|                  | Optional swivel bracket - LTXW4        |
|                  | Optional low profile bracket - LTXW4LP |

#### Electrical Specifications

|                          |                                                                                     |
|--------------------------|-------------------------------------------------------------------------------------|
| Operating Voltage:       | 100 - 277V AC 50/60Hz                                                               |
| Power Consumption:       | See ordering information                                                            |
| Operating Temp:          | -40°F to +149°F (-40°C to +65°C)                                                    |
| Harmonics:               | IEC 61000-3-2                                                                       |
| Noise Requirements/ EMC: | FCC Title 47, Subpart B, Section 15, class A device. RF Immunity; 10V/m, 80MHz-1GHz |
| Surge Protection:        | EN 61000-4-5                                                                        |
|                          | 4 kV line to line                                                                   |
|                          | 4 kV line to ground                                                                 |

THD: < 20%

Power Factor: > 0.9

Power supply equipped with inline fuse

#### Construction

|       |                        |
|-------|------------------------|
| Body: | Powder coated aluminum |
| Lens: | Polycarbonate          |

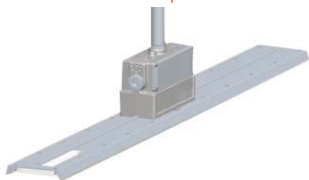
#### Photometric Information

|            |                        |
|------------|------------------------|
| CRI:       | 75, 80                 |
| CCT:       | 5000K (cool white)     |
|            | 4000K (neutral white)  |
| IES Files: | Available upon request |

All values typical unless otherwise stated  
All lumen values are typical (tolerance +/- 10%)  
\*Consult factory for 80 min CRI

## Mounting Options

Conduit Top Mount



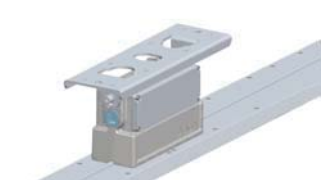
Conduit Side Mount



LTXW4



LTXW4LP



#### Application:

Dialight's DuroSite® LED linear fixture replaces HID and fluorescent lighting fixtures in industrial applications. The DuroSite® LED Linear fixture's rugged solid state design makes it highly resistant to shock and vibration. Its fully gasketed IP 66 rated enclosure makes it suitable for dusty & wet locations, its 1598 rating guarantees added protection from salt water spray. The DuroSite LED Linear's superior design allows for mounting versatility and ease of installation for many lighting applications.

This fixture is offered in sustained and maintained configurations.

Sustained has a single AC input and battery backup mode is entered upon any loss of power. Fixture cannot be turned off without entering battery backup mode.

Maintained has two AC inputs. The fixture can be turned on and off via AC-1 and Fixture only enters battery backup mode when AC-2 is lost or low.

## DuroSite® LED Linear Fixture

### Battery Backup

#### Mechanical Information

|                  |                                                          |
|------------------|----------------------------------------------------------|
| Fixture Weight:  | 18.0 lbs (8.16 kg)                                       |
| Shipping Weight: | 21.0 lbs (9.53 kg)                                       |
| Mounting:        | (1) Threaded 3/4" NPT Side<br>(2) Threaded 3/4" NPT Ends |

#### Electrical specifications:

|                             |                                                                                     |
|-----------------------------|-------------------------------------------------------------------------------------|
| Operating Voltage:          | 100-277V AC 50/60 Hz                                                                |
| Power Consumption:          | 85W                                                                                 |
| Operating Temp:             | -20°F to +149°F (-20°C to +65°C)                                                    |
| Battery:                    | 3.6V 10Ah Nimh                                                                      |
| Battery Life:               | 4 years                                                                             |
| Battery Duration:           | >3 hours                                                                            |
| Harmonics:                  | IEC 61000-3-2                                                                       |
| Noise Requirements/<br>EMC: | FCC Title 47, Subpart B, Section 15, class A device, RF Immunity; 10V/m, 80MHz-1GHz |
| Surge Protection:           | EN 61000-4-5<br>1 kV line to line<br>2 kV line to ground                            |

|               |       |
|---------------|-------|
| THD:          | < 20% |
| Power Factor: | > 0.9 |

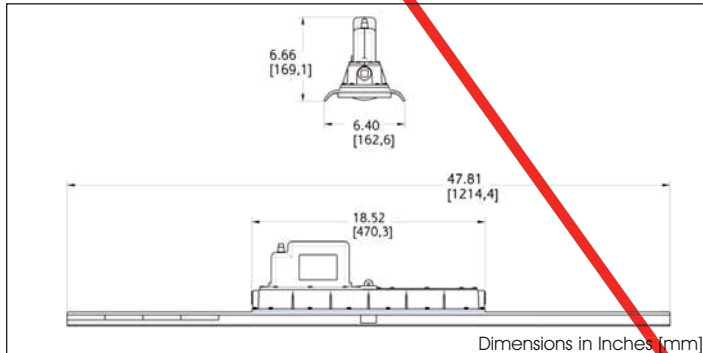
#### Construction

|       |                        |
|-------|------------------------|
| Body: | Powder Coated Aluminum |
| Lens: | Polycarbonate          |

#### Photometric Information

|            |                        |
|------------|------------------------|
| CRI:       | 75                     |
| CCT:       | 5650K (cool white)     |
| IES Files: | Available upon request |

All values typical unless otherwise state  
All lumen values are typical (tolerance +/- 10%)



#### Certifications

- UL 1598/A
- UL 924
- CSA C22.2 #250.0
- IP66
- NEMA 4X

#### Features & Benefits

- L70 rated for >100,000 hours @ 25°C
- 3 year warranty (excluding battery)
- 450 lumens in battery backup mode consistent throughout life of battery
- Low power consumption
- Battery status indication light
- Instant on/off operation
- Push to test button
- Superior color rendition index compared to HPS, LPS, MV
- Mercury Free
- Resistant to shock and vibration
- Temperature compensation technology for longer life

#### Mounting Options

##### In-line Conduit Mount



##### Overhead Conduit Mount



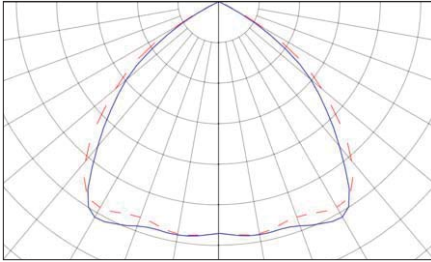
##### LSXW4



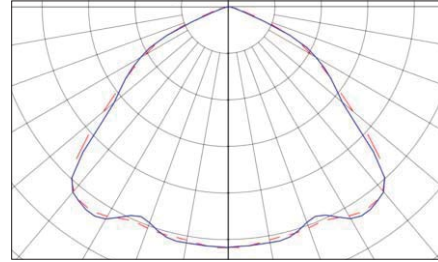
# DuroSite® LED Linear Fixtures

## Light Distribution Patterns

### Standard models



### Battery Backup models



## Ordering Information

| Part Number                 | Length | CRI | Type        | Lens     | Fixture Lumens <sup>1,2,3</sup> | Wattage | Lumens Per Watt |
|-----------------------------|--------|-----|-------------|----------|---------------------------------|---------|-----------------|
| Low profile Models          |        |     |             |          |                                 |         |                 |
| LPM3C4M2P                   | 4'     | 75  | Low profile | Clear    | 7,000                           | 66      | 106             |
| LPM3C4H2D                   | 4'     | 75  | Low profile | Diffused | 6,600                           | 66      | 100             |
| LPM3B4M2P                   | 4'     | 80  | Low Profile | Clear    | 6,300                           | 66      | 95              |
| LPM3B4H2D                   | 4'     | 80  | Low Profile | Diffused | 6,000                           | 66      | 91              |
| LPM3C4D2P                   | 2'     | 75  | Low profile | Clear    | 3,500                           | 33      | 106             |
| LPM3C4B2D                   | 2'     | 75  | Low profile | Diffused | 3,300                           | 33      | 100             |
| LPM3B4D2P                   | 2'     | 80  | Low Profile | Clear    | 3,100                           | 33      | 94              |
| LPM3B4B2D                   | 2'     | 80  | Low Profile | Diffused | 2,900                           | 33      | 88              |
| Top Conduit Mounting Models |        |     |             |          |                                 |         |                 |
| LTM3C4M2P                   | 4'     | 75  | Top Conduit | Clear    | 7,000                           | 66      | 106             |
| LTM3C4H2D                   | 4'     | 75  | Top Conduit | Diffused | 6,600                           | 66      | 100             |
| LTM3B4M2P                   | 4'     | 80  | Top Conduit | Clear    | 6,300                           | 66      | 95              |
| LTM3B4H2D                   | 4'     | 80  | Top Conduit | Diffused | 6,000                           | 66      | 91              |
| LTM3C4D2P                   | 2'     | 75  | Top Conduit | Clear    | 3,500                           | 33      | 106             |
| LTM3C4B2D                   | 2'     | 75  | Top Conduit | Diffused | 3,300                           | 33      | 100             |
| LTM3B4D2P                   | 2'     | 80  | Top Conduit | Clear    | 3,100                           | 33      | 94              |
| LTM3B4B2D                   | 2'     | 80  | Top Conduit | Diffused | 2,900                           | 33      | 88              |
| Battery Backup Models       |        |     |             |          |                                 |         |                 |
| LSM3C4MEP                   | 4'     | 75  | Sustained   | Clear    | 7,000                           | 85      | 85              |
| LSM3C4MNP                   | 4'     | 75  | Maintained  | Clear    | 7,000                           | 85      | 85              |

#### Notes:

<sup>1</sup>Part numbers listed in the above table are cool white. For neutral white models replace the 5th character with **N**. Ex. LTM3**C**4D2P becomes LTM3**N**4D2P

<sup>2</sup>450 Lumens in Battery Backup mode

<sup>3</sup>All lumen values are typical (tolerance +/- 10%)

For Dialight's complete list of DLC qualified products, please click this link: [www.dialight.com/DLC](http://www.dialight.com/DLC)

# DuroSite® LED Linear Fixtures

## Options and Accessories

### Low Profile Models

|                                                                                    | Part Number  | Material            | Description                                                  | Kit Includes                                           |
|------------------------------------------------------------------------------------|--------------|---------------------|--------------------------------------------------------------|--------------------------------------------------------|
| Low Profile Models                                                                 |              |                     |                                                              |                                                        |
|  |              |                     |                                                              |                                                        |
|   | LPXW4        | 316 Stainless Steel | Mounting bracket<br>Can be angled at 0°, 30°, 45°, 60° & 90° | Mounting bracket<br>Mounting hardware                  |
|   | LPXW4LP      | 316 Stainless Steel | Low profile mounting bracket<br>Can be angled at 0° and 15°  | Mounting bracket<br>Mounting hardware                  |
|   | LTXENDCAPKIT | 304 Stainless Steel | Chain mount and secondary retention bracket                  | 2 Brackets<br>Mounting hardware                        |
|   | LTXSAFEKIT   | 304 Stainless Steel | Safety Cable Kit for secondary retention                     | 2 Brackets<br>2 53" Safety cables<br>Mounting hardware |

### Top Conduit Mount Models

|                                                                                     | Part Number  | Material            | Description                                                                                   | Kit Includes                                           |
|-------------------------------------------------------------------------------------|--------------|---------------------|-----------------------------------------------------------------------------------------------|--------------------------------------------------------|
| Standard Models                                                                     |              |                     |                                                                                               |                                                        |
|  |              |                     |                                                                                               |                                                        |
|  | LTXW4        | 6061 Aluminum       | Mounting bracket<br>Can be angled at 0°, 30°, 45°, 60° & 90°                                  | Mounting bracket<br>Mounting hardware                  |
|  | LTXW4LP      | 5052 Aluminum       | Low profile mounting bracket<br>Can be angled at 0° and 15°                                   | Mounting bracket<br>Mounting hardware                  |
|  | LTXENDCAPKIT | 304 Stainless Steel | Chain mount and secondary retention bracket                                                   | 2 Brackets<br>Mounting hardware                        |
|  | LTXSAFEKIT   | 304 Stainless Steel | Safety Cable Kit for secondary retention                                                      | 2 brackets<br>2 53" Safety cables<br>Mounting hardware |
|  | LTXLSXW4     | 6061 Aluminum       | Retrofit bracket adapter<br>(used to connect LTM model fixtures to an existing LSXW4 bracket) | 2 Bracket adapters<br>Mounting hardware                |

# DuroSite® LED Linear Fixtures

## Options and Accessories

### Battery Back up Models

|                                                                                    | Part Number  | Material            | Description                                                  | Kit Includes                                          |
|------------------------------------------------------------------------------------|--------------|---------------------|--------------------------------------------------------------|-------------------------------------------------------|
| Battery Back up Models                                                             |              |                     |                                                              |                                                       |
|  |              |                     |                                                              |                                                       |
|   | LSXW4        | 6061 Aluminum       | Mounting bracket<br>Can be angled at 0°, 30°, 45°, 60° & 90° | Mounting bracket<br>Mounting hardware                 |
|   | LSXENDCAPKIT | 304 Stainless Steel | Chain mount brackets                                         | 2 Mounting brackets<br>Mounting hardware              |
|   | HZXSAFEKIT   | 316 Stainless Steel | Safety Cable Kit                                             | 2 Eyelets<br>2 53" Safety cables<br>Mounting hardware |

### Battery Backup Wiring Configurations (Optional)



Add one of the following suffixes to the above Part Numbers for factory wired and installed 10' cable and cable gland:

- GS added for installed on one of the side entries (shown to the left)
- GT added for installed on the top entry (not shown)

Ex. LSM3C4D2P becomes LSM3C4D2P**GS**



Add one of the following suffixes to the above Part Numbers for factory wired and installed 10' cable and 3/4" conduit fitting.:

- CT added for installed on the top entry (shown to the left)
- CS added for installed on one the side entries (not shown)

Ex. LSM3C4D2P becomes LSM3C4D2P**CT**

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