HOLOPHANE®
LEADER IN LIGHTING SOLUTIONS

| Catalog Number | |
|---|---|
| Notes | Type |

# Petrolux® LED

Hazardous Locations



### 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.
- Certain airborne contaminants may adversely affect the functioning of LEDs and other electronic components, depending on various factors such as concentrations of the contaminants, ventilation, and temperature at the end-user location. **Click here for a list of substances that may not be suitable for interaction with LEDs and other electronic components.**

### Electrical

- Luminaire Surge Protection Level: Designed to withstand up to 10kV/5kA per ANSI C82.77-5-2015.
- 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 Division2,
  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

**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.

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 to confirm which versions are qualified.

### 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)
EPA: 1.21 sq.ft. 45lbs.

## ORDERING INFORMATION

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

| 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[1]<br>530 530 mA[1]<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)[2] |

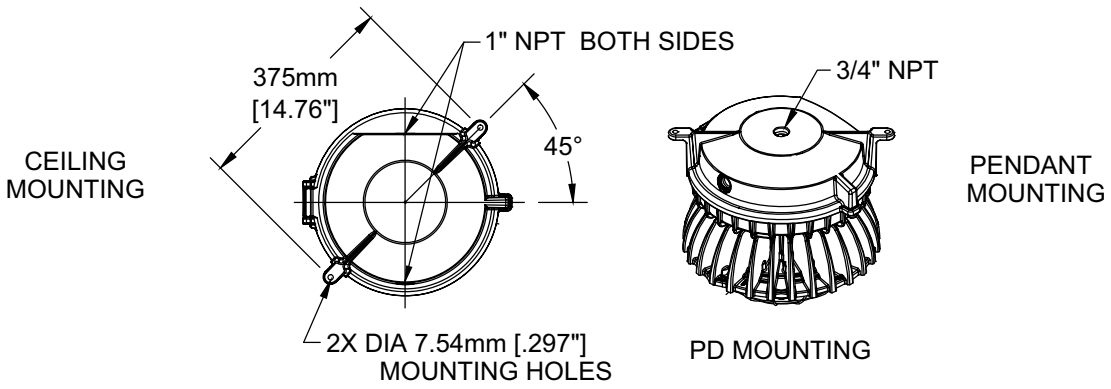
| Finish | Optics | Maximum ambient[4] | Options |
|---|---|---|---|
| G Gray | L5 Type 5, low angle, glass<br>L5H Type 5, high angle, glass<br>L1 Type 1, long and narrow, glass[3]<br>P5 Type 5, low angle, polycarbonate<br>P5H Type 5, high angle, polycarbonate<br>P1 Type 1, long and narrow, polycarbonate[3] | 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[5]<br>F2 Double fusing[6]<br>EG Ingress/egress marker decal<br>GD Optic guard<br>SH Uplight shield[7] |

| Accessories: *Order as separate catalog number.* | |
|---|---|
| 09189-X | Safety chain kit[8] |
| PLEDGD | Optic guard |
| PLEDSH-GA | Uplight shield, gray |
| HPLEDMI3688 | Thread lubricant (1 tube is enough for 20 luminaires) |

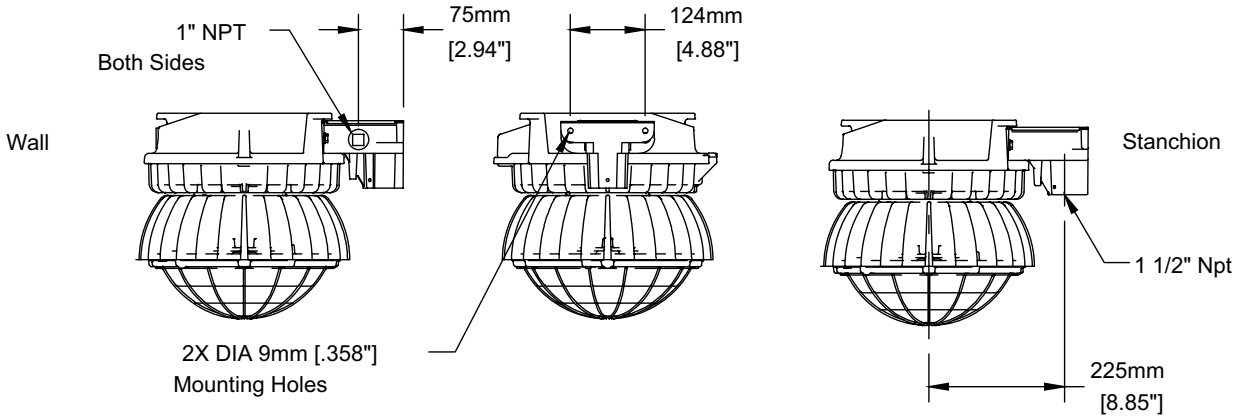
**Notes**
1 Only available with 42 leds.
2 P3US-ARM-GR is factory installed.
3 N/A with 84 leds.
4 See matrix on page 3.
5 Specify voltage 12, 27, 34.
6 Specify voltage 20, 24, 48.
7 Available with L5, P5 optic only.
8 X signifies feet of chain.


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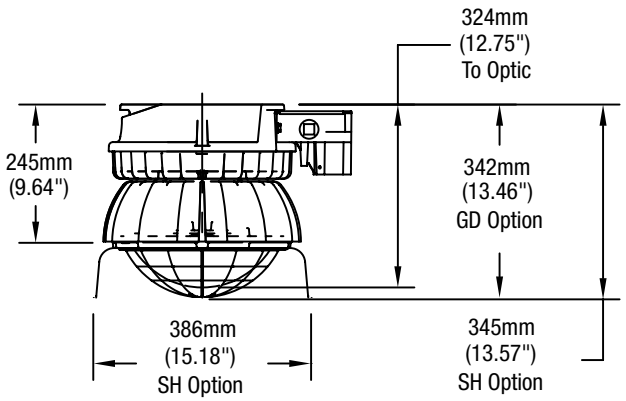
## DIMENSIONAL DATA




UN Universal




US Universal
(wall & stanchion)




UPLIGHT SHIELD (SH) & OPTIC GUARD (GD) OPTIONS


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## OPERATIONAL DATA

### Operating Characteristics

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

### Projected Lumen Maintenance (TM-21)[2]

| Package[3] | 0 Hours | 15,000 Hours | 30,000 Hours | 45,000 Hours | 60,000 Hours | 100,000 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.


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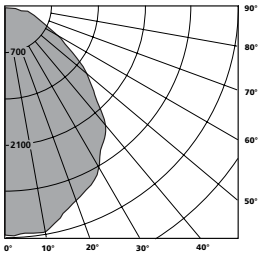
## Operating Temperature Codes for Hazardous Locations:

| 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

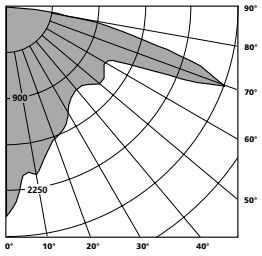
### L5/P5

**Petrolux LED Type 5 Low Angle**



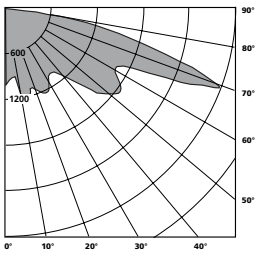

### L5H/P5H

**Petrolux LED Type 5 High Angle**



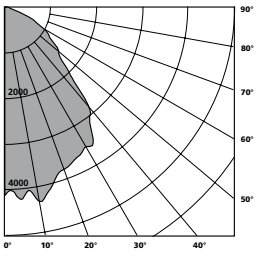

### L1/P1

**Petrolux LED Type 1**




### SH

**Petrolux LED Type 5-0% Uplight**





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