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 56 56 LEDs 70 70 LEDs 84 84 LEDs	350 350 mA[1] 530 530 mA[1] 700 700 mA	4K 4000K CCT 5K 5000K CCT	AS Auto sensing (120-277) 12 120V 20 208V 24 240V 27 277V AH Auto sensing (347/480) 34 347V 48 480V	UN Universal (ceiling & pendant) US Universal (wall & stanchion)[2]

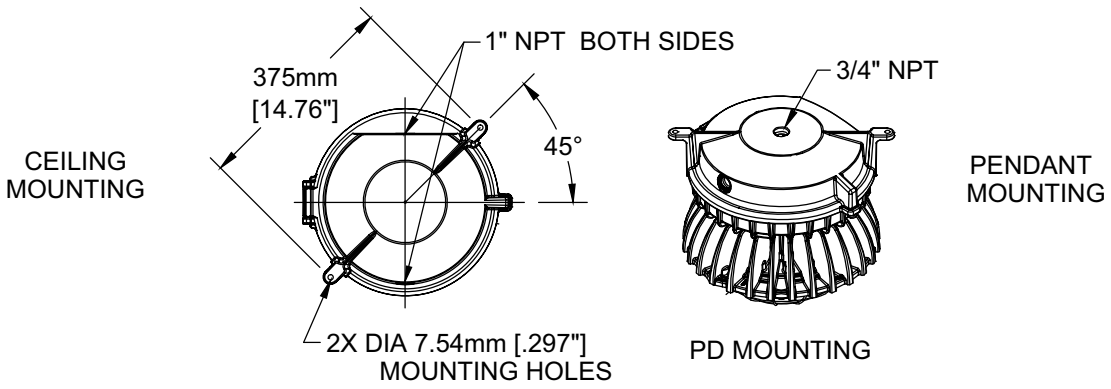
Finish	Optics	Maximum ambient[4]	Options
G Gray	L5 Type 5, low angle, glass L5H Type 5, high angle, glass L1 Type 1, long and narrow, glass[3] P5 Type 5, low angle, polycarbonate P5H Type 5, high angle, polycarbonate P1 Type 1, long and narrow, polycarbonate[3]	35C 35°C (95°F) 40C 40°C (104°F) 45C 45°C (113°F) 55C 55°C (131°F)	F1 Single fusing[5] F2 Double fusing[6] EG Ingress/egress marker decal GD Optic guard 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)

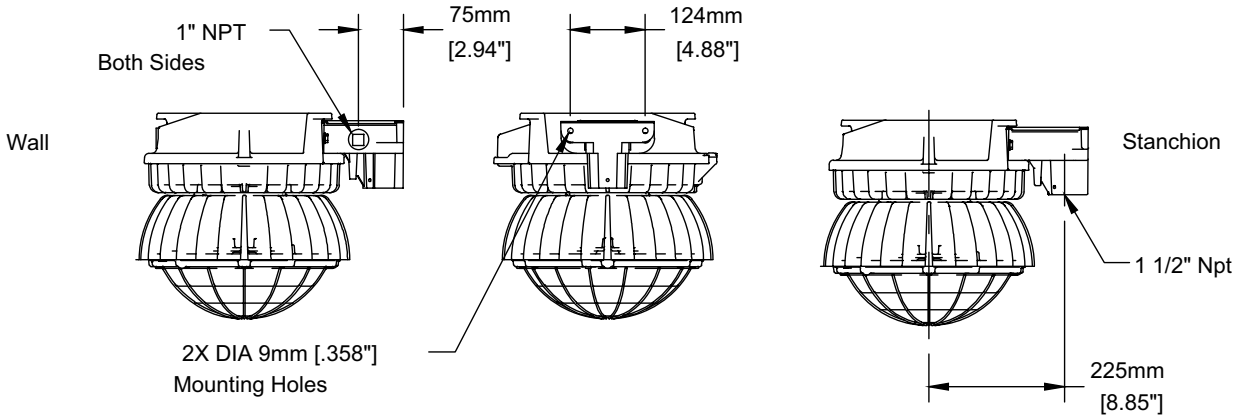
Notes
1 Only available with 42 leds.
2 P3US-ARM-GR is factory installed.
3 N/A with 84 leds.
4 See matrix on page 3.
5 Specify voltage 12, 27, 34.
6 Specify voltage 20, 24, 48.
7 Available with L5, P5 optic only.
8 X signifies feet of chain.

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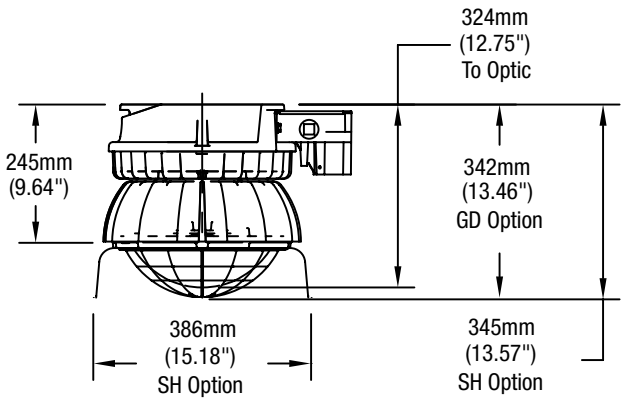
DIMENSIONAL DATA



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 L5H L1 P5 P5H P1	6,189 5,234 5,066 4,493 3,852 3,772	6,150 5,201 5,035 4,493 3,852 3,772	50 50 50 50 50 50	124 105 101 90 77 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 L5H L1 P5 P5H P1	8,927 7,550 7,308 6,522 5,592 5,476	8,872 7,503 7,263 6,481 5,557 5,442	74 74 74 74 74 74	121 102 99 88 75 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 L5H L1 P5 P5H P1	11,315 9,569 9,263 8,266 7,087 6,940	11,245 9,510 9,205 N/A N/A N/A	98 98 98 98 98 98	115 97 94 84 72 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 L5H L1 P5 P5H P1	14,822 12,586 12,183 10,872 9,321 9,128	14,790 12,508 12,107 10,804 9,263 9,071	129 129 129 129 129 129	115 97 94 84 72 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 L5H L1 P5 P5H P1	18,309 15,484 14,988 13,375 11,468 11,230	18,195 15,837 14,895 13,292 11,396 11,160	165 165 165 165 165 165	111 94 91 81 69 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 L5H P5 P5H	21,575 18,246 13,375 11,468	21,441 18,133 15,663 13,429	195 195 195 195	110 93 68 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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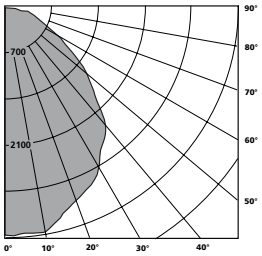
Operating Temperature Codes for Hazardous Locations:

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	120-277 347 / 480	55°C 40°C	T4 T4A	T5 T5	T5 T5	T3C T3C
HPLED 42 530	120-277 347 / 480	55°C 40°C	T4 T4A	T5 T5	T5 T5	T3C T3C
HPLED 42 700	120-277 347 / 480	55°C 40°C	T4 T4A	T5 T5	T5 T5	T3C T3C
HPLED 56 700	120-277 347 / 480	45°C 35°C	T4 T4	T5 T5	T5 T5	T3C T3C
HPLED 70 700	120-277 347 / 480	45°C 35°C	T4 T4	T5 T5	T5 T5	T3C T3C
HPLED 84 700	120-277 347 / 480	40°C 35°C	T4 T4	T5 T5	T5 T5	T3C T3C

DISTRIBUTION DATA

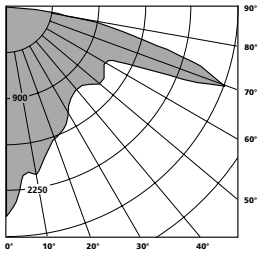
L5/P5

Petrolux LED Type 5 Low Angle



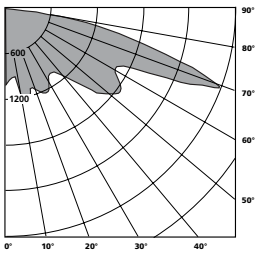
L5H/P5H

Petrolux LED Type 5 High Angle



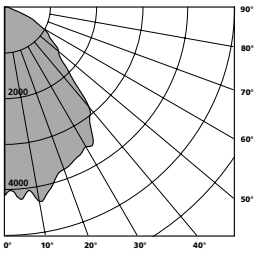
L1/P1

Petrolux LED Type 1



SH

Petrolux LED Type 5-0% Uplight



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