

Petrolux® LED

Wet Location for Demanding Environments



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.

Catalog Number
Notes
Type

Description

For demanding environments where dust, dirt and moisture are a concern.

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.](#)

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

- 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.
- 3000K, 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 top cover (ceiling/pendant) is standard. Optional universal arm available for wall/stanchion. Other mountings include gasketed hook and yoke mount.
- Precise number of fins dissipate maximum amount of heat and achieve up to 131°F (55°C) ambient rating.

Listings

- UL 1598 Listed for use in wet locations
- IP66 rated

Warranty

5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/CustomerResources/Terms_and_Conditions.aspx

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.

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 (5,000 - 10,000 lumens): 31-38 lbs. (14-17 kg)
Weight (12,000 - 18,000 lumens): 38-45 lbs. (17-20 kg)
EPA: 1.21 sq.ft. 45lbs.

ORDERING INFORMATION

Example: PLED2 05L 5K AS UN NA G L5H

Series	Lumens ¹	Color temperature	Voltage				Mounting		Cord length	
PLED2	05L 5000 lumens	3K 3000K CCT	AS	Auto sensing (120-277)	AH	Auto sensing (347/480)	UN	Universal ²	NA	No cord
	08L 8000 lumens	4K 4000K CCT					GH	Gasketed hook	03	3 ft cord with watertight plug or cord ⁴
	10L 10,000 lumens	5K 5000K CCT	12	120V	34	347V	GHLP	Gasketed hook less plug		
	12L 12,000 lumens		20	208V	48	480V	YK-0	0° yoke mount bracket ³	06	6 ft cord with watertight plug or cord ⁴
	15L 15,000 lumens		24	240V			YK-45	45° yoke mount bracket ³	10	10 ft cord with watertight plug or cord ⁴
	18L 18,000 lumens		27	277V						
Finish		Optics		Options						
W	White	L5	Type 5, low angle, glass	BP	Button style photocontrol ^{6,7,8}			DE	ROAM® concierge dimming control ²²	
G	Gray	L5FR	Type 5, low angle, glass frosted	EG	Ingress/egress marker decal			VE	ROAMVIEW™ dimming control ²²	
CRW	Corrosion-resistant white	L5H	Type 5, high angle, glass	F1	Single fusing ⁹			AXA10	XPoint Wireless enabled ²³	
CRG	Corrosion-resistant gray	L5HFR	Type 5, high angle, glass frosted	F2	Double fusing ¹⁰			MSI6NWL	Occupancy sensor on/off ²⁴	
		L1	Type 1, long and narrow, glass ⁵	GD	Optic guard			MSI62LOVWL	On/off/dimming - no photocell occupancy sensor ²⁵	
		L1FR	Type 1, long and narrow, glass frosted ⁵	SH	Uplight shield ¹¹			MSI62LOVWL DSCNWL	On/off/dimming - with photocell occupancy sensor ²⁶	
		P5	Type 5, low angle, polycarbonate	SP	Sample pack for ground transport			MSI62XAWL DSCXAWL	XPoint Wireless enabled with photocell and occupancy sensor ²⁷	
		P5H	Type 5, high angle, polycarbonate	PER	NEMA twistlock receptacle ^{12,13,14,15}					
		P1	Type 1, long and narrow, polycarbonate ⁵	PER45	NEMA twistlock receptacle 45° mounting ^{12,13,16,17}					
				PCS	DTL solid state photo control. AS, 120-277V ¹⁸					
				P34	DTL solid state photo control, 347V ¹⁹					
				P48	DTL solid state photo control, 480V ²⁰					
				PSC	Shorting cap ²¹					

For footnotes, see page 2.

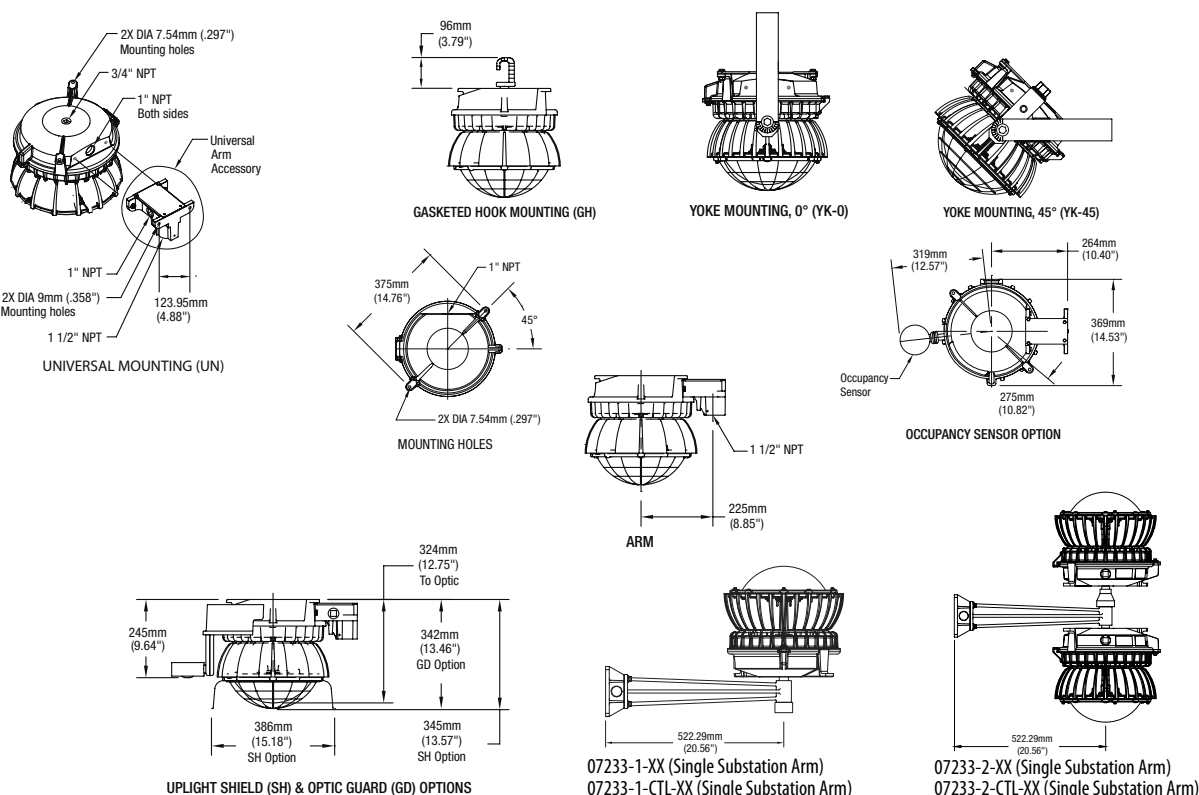
ORDERING INFORMATION (cont.)

Accessories: Order as separate catalog number.					
09189-* SUB	Safety chain kit (*= 2, 3 feet of chain)	P3US-WH	Universal mount arm, white	07233-1-XX	Single luminaire arm for one universal mount unit. (Single Substation Arm) ²⁸
PLEDMI3502	Thread sealant (order quantity 1 per luminaire)	P3US-GR	Universal mount arm, gray	07233-1-CTL-XX	Single luminaire arm for one universal mount unit. (Single Substation Arm) ²⁹
PLEDGD	Optic guard	P3US-CRW	Universal mount arm, corrosion-resistant white	07233-2-XX	Double luminaire arm for two universal mount units. (Double Substation Arm) ²⁸
		P3US-CRG	Universal mount arm, corrosion-resistant gray	07233-2-CTL-XX	Double luminaire arm for two universal mount units. Top unit will be controlled by the bottom unit. (Double Substation Arm) ³⁰

Notes

- Nominal lumens.
- Ceiling/pendant, order P3US arm for wall/stanchion.
- Includes all necessary brackets and mounting accessories; does not include installation mounting hardware.
- Available with GH, GHP mountings only. Must specify 12, 20, 24 or 27 voltage for GH mounting. Must specify cord length.
- N/A with 18L.
- Available 12, 20, 24, 27 voltage codes with 40C maximum ambient for 5L, 8L, 10L, 12L, 15L AND 18L lumen packages.
- Available 34 voltage code with 40C maximum ambient for 5L, 8L and 10L lumen packages and with 35C maximum ambient for 12L, 15L and 18L lumen packages.
- When ordering with UN mounting, customer cannot mount to ceiling. Not available with PER, PER45, DE, VE, MSI6NDL, MSI62LOVDL DSCNWL, AXA10, MSI6XAWL, OS option.
- Specify voltage 12, 24, 27 or 34.
- Specify voltage 20, 24 or 48.
- Available L5, L5FR, P5 optics only. Not available with MSI6NWL, MSI62LOVWL, MSI62LOVWL DSCNWL, MSI6XAWL DSCXAWL options.
- Available 12, 20, 24, 27 voltage codes with 40C maximum ambient for 5L, 8L, 10L, 12L, 15L and 18L lumen packages.
- Available 34 voltage code with 40C maximum ambient for 5L, 8L and 10L lumen packages and with 35C maximum ambient for 12L, 15L and 18L lumen packages.
- Not available with BP, AXA10 or Occ sensors. Not available with YK-45. When ordering with UN mounting, customer cannot mount to ceiling.
- PER and PER45 ship unattached, wired in field. PER or PER45 can be ordered with or without ROAM DE, ROAM VE, PCS, P34, P48 and PSC options. ROAM, Photocontrol and Shorting Cap available below.
- Available AS, 12, 20, 24, 27, 34, 48 voltage codes only. Not available with BP, AXA10 or Occ sensors. Must specify YK-45. PER and PER45 ship unattached, wired in field.
- PER or PER45 can be ordered with or without ROAM DE, ROAM VE, PCS, P34, P48 and PSC options. ROAM, Photocontrol and Shorting Cap available below.
- Available AS, 12, 20, 24, 27 voltages. Available with PER and PER45 options only. Shipped in carton with unit.
- Available 34 volt only. Available with PER and PER45 options only. Shipped in carton with unit.
- Available 48 volt only. Available with PER and PER45 options only. Shipped in carton with unit.
- Available with PER and PER45 options only. Shipped in carton with unit.
- N/A with BP, AXA10 or Occ sensors. Specifies a ROAM® dimming enabled fixture with a dimming control module factory installed PER or PER45 option required. Additional hardware and services required for ROAM® deployment must be purchased separately. N/A with 15L and 18L. N/A with AH, 34 and 48 voltages. Available 40C maximum ambient only.
- Available AS, 12, 20, 24, 27 voltage codes. Not available with BP, PER, PER45, DE, VE, MSI6NWL, MSI62LOVWL, MSI62LOVWL DSCNWL, MSI6XAWL DSCXAWL, OS options. Wet Location Listed, 35C maximum ambient.
- Available AS, 12, 20, 24, 27 voltage codes. Not available with SH, BP, PER, PER45, DE, VE, MSI62LOVWL, MSI62LOVWL DSCNWL, AXA10, MSI6XAWL DSCXAWL. Wet Location Listed, 40C maximum ambient. SensorSwitch
- Brand sensor. Not available with YK-0 and YK-45 mountings.
- Available AS, 12, 20, 24, 27 voltage codes. Not available with SH, BP, PER, PER45, DE, VE, MSI6NWL, MSI62LOVWL DSCNWL, AXA10, MSI6XAWL DSCXAWL, OS options. Wet Location Listed, 40C maximum ambient. SensorSwitch Brand sensor. Not available with YK-0 and YK-45 mountings.
- Available AS, 12, 20, 24, 27 voltage codes. Not available with SH, BP, PER, PER45, DE, VE, MSI6NWL, MSI62LOVWL, MSI62LOVWL DSCNWL, AXA10, OS options. Wet Location Listed, 40C maximum ambient. Xpoint Brand sensor. Not available with YK-0 and YK-45 mountings.
- UN mounting ONLY. 0-10 volt dimming leads in arm. Not available with MSI6NWL, MSI62LOVWL, MSI62LOVWL DSCNWL, AXA10, MSI6XAWL DSCXAWL.
- UN mounting ONLY. Available with MSI6NWL, MSI62LOVWL DSCNWL, AXA10, MSI6XAWL DSCXAWL ONLY.
- UN mounting ONLY. Order a bottom unit with MSI6NWL, MSI62LOVWL DSCNWL, AXA10, MSI6XAWL DSCXAWL only and a top unit with no MSI6NWL, MSI62LOVWL DSCNWL, AXA10, MSI6XAWL DSCXAWL.

DIMENSIONAL DATA



OPERATIONAL DATA
Operating Characteristics¹

Package	Ambient Rating (120V - 277V)	Ambient Rating (347V / 480V)	Distribution	Delivered Lumens 5000K CCT @25°C ²	Delivered Lumens 4000K CCT @25°C ²	Wattage	LPW @ 5000K
PLED2 05L	-40°F to 131°F (-40°C to 55°C)	-40°F to 104°F (-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
PLED2 08L	-40°F to 131°F (-40°C to 55°C)	-40°F to 104°F (-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
PLED2 10L	-40°F to 131°F (-40°C to 55°C)	-40°F to 104°F (-40°C to 40°C)	L5	11,315	11,245	98	115
			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
PLED2 12L	-40°F to 122°F (-40°C to 45°C)	-40°F to 95°F (-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
PLED2 15L	-40°F to 113°F (-40°C to 45°C)	-40°F to 95°F (-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
PLED2 18L	-40°F to 104°F (-40°C to 40°C)	-40°F to 86°F (-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	13,513	13,429	195	69

Projected Lumen Maintenance (TM-21)³

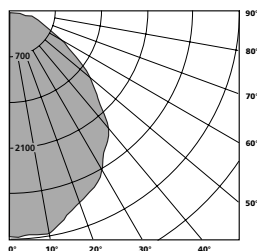
Package ⁴	0 Hours	15,000 Hours	30,000 Hours	45,000 Hours	60,000 Hours	100,000 Hours
PLED2 05L	1.0	0.96	0.94	0.93	0.91	0.88
PLED2 08L	1.0	0.96	0.94	0.93	0.91	0.88
PLED2 10L	1.0	0.96	0.94	0.93	0.91	0.88
PLED2 12L	1.0	0.95	0.93	0.91	0.90	0.85
PLED2 15L	1.0	0.95	0.93	0.91	0.90	0.85
PLED2 18L	1.0	0.95	0.93	0.91	0.90	0.85

Notes

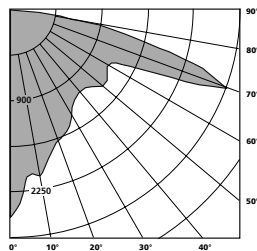
- 1 Adding BP, PER, PER45, DE and VE options results in a max. ambient of 40°C.
- 2 Absolute photometry calculated in accordance with IESNA LM-79-08.
- 3 Calculated using data collected according to LM-80 and represents lumen maintenance of the LED package.
- 4 Project lumen maintenance factors at max. ambient temperature per lumen package.

DISTRIBUTION DATA

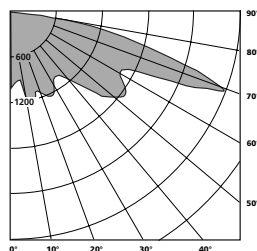
Petrolux LED Type 5 Low Angle



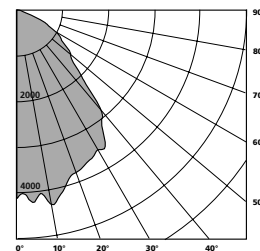
Petrolux LED Type 5 High Angle



Petrolux LED Type 1



Petrolux LED Type 5-0% Uplight



CONTROLS

MSI6NDL, MSI62L0VDL, MSI62L0VDL DSCNDL. AXA10 X Point wireless enabled. "PRELIMINARY"