

Catalog Number	
Notes	Type

Petrolux® LED Low Bay

Hazardous Location for Demanding Environments

PXLH



Description

- For demanding environments with lower mounting heights 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.
- Silicone rubber lens available that will not brown, chip, shatter or break.
- Four distributions (Type 5 low angle, Type 5 high angle, type 4 forward throw and Type 1 long and narrow) available to maximize versatility.
- Highly engineered LED system ensures superior uniformity and maximizes spacing.
- Lens assembly secured by stainless steel tamper-resistant Torx® T-20 screws.

Electrical

- Luminaire Surge Protection Level: Designed to withstand up to 10kV/5kA per ANSI C82.77-5-2015.
- 0-10V dimming driver is standard.
- 3000K, 4000K or 5000K CCT available.
- Fault-tolerant LED light engine continues to provide light even in the failure of one LED.
- Field Adjustable Output (AO) module - Onboard device that adjusts the light output and input wattage to meet site specific requirements. The AO module is preset at the factory to position number 8 (see chart on page 6).
- Integrated Bluetooth occupancy sensor: The SBG BTP is bluetooth enabled with dimming photocells. Allows you to change settings in the field using the VLP app.

Mechanical

- Super durable TGIC thermoset powder coat. Corrosion resistant finish is a five-stage pre-treating and painting process that yields over 5,000 hours salt rating per ASTM B117.
- Robust cast aluminum housing with low copper content (0.6% CU content) withstands harsh or hostile environments.
- Universal mount high profile top cover (ceiling/pendant). Optional universal arm available for wall/stanchion. Other mountings include a high profile yoke mount.
- Precise number of fins dissipate maximum amount of heat. -40C (-40F) to (149F) ambient rating.
- Universal mount can be wall, stanchion, and angle mounted to accommodate a variety of arms.

Listings

- UL 844
Class 1, Division 2 Groups A, B, C, D
Class 2 Division 1 Groups E, F, and G
Class 2, Division 2 Groups F and G
Class 3
Simultaneous presence, Class 1 Division 2, Class 2 Division 1/Class 2 Division 2 (See chart on page 8 for compatibility by nomenclature)
- IP65 and IP66 rated. IP67 rated except when used with the P3US, P3US35 accessories, 07233 substation arms or integral sensors.
- Luminaire is 1G vibration rated.
- NEMA 4X rated (see chart on page 10)
- Marine Rated (see chart on page 10)
- IK rated (see chart on page 6)

Warranty

5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

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) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.



Typical Applications

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

Dimensions: Inches (millimeters) unless otherwise noted.

Universal Mount
Diameter: 13.11 (332.99)
Height: 11.43 (290.32)
Weight: Approx. 19 lbs (8.62 kg)
Pallet quantity: 12 fixtures
EPA: 0.787 sq. ft. wind loading

A+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is part of an A+ Certified solution for nLight® or XPoint™ Wireless control networks marked by a [shaded background*](#)

To learn more about A+, visit www.acuitybrands.com/aplus.

*See ordering tree for details


 A+ Capable options indicated
by this color background.

ORDERING INFORMATION
Example: PXLH 3000LM MDUS MVOLT 40K 80CRI UNM DGXD

Series	Lumens	Optics	Voltage	Color Temperature	Color Rendering Index	Mounting Options
PXLH	3000LM 3,000 lumens	FWD Forward throw, glass lens	MVOLT (120V-277V)	30K 3000K CCT	70CRI 70CRI	UNM Universal Mount, high profile top cap
	5000LM 5,000 lumens	MD0 Medium, glass lens, with minimal uplight	120 120V	40K 4000K CCT	80CRI 80CRI	PM Pendant Mount, low profile top cap
	8000LM 8,000 lumens	MDUS Medium, glass lens, with uplight	208 208V	50K 5000K CCT	90CRI 90CRI	YK90 Yoke Mount 0-90 Degree, high profile top cap
	10000LM 10,000 lumens	MDUSFR Medium, frosted glass lens, with uplight	240 240V			
		LND Long and Narrow, glass lens	277 277V			
		SO Medium, silicon optic, with minimal uplight	HVOLT (347V/480V)			
		SOLND Long and Narrow, silicone optic	347 347V			
		WD Wide, glass lens	480 480V			

Options			Finish
Cords (No Plug): ‡ CNP16WWL3FT Cord only, 16-gauge, 3 conductors, white, 3ft CNP164CWL3FT Cord only, 16-gauge, 4 conductors, black, 3ft ‡ CNP164CWWL3FT Cord only, 16-gauge, 4 conductors, white, 3ft ‡ CNP165CDWL3FT Cord only, 16-gauge, 5 conductors, includes 0-10V dimming leads, black, 3ft CNP165CDWWL3FT Cord only, 16-gauge, 5 conductors, includes 0-10V dimming leads, white, 3ft Mounting Accessories: 072331 Single substation arm ‡ 072331CTL Single substation arm with controls ‡ P3US Universal mount arm ‡ P3US35 35 Degree Universal Mount Arm ‡			DGXD Gray Corrosion Resistant DWHXD White Corrosion Resistant DBXD Black Corrosion Resistant
Non-Dimming Sensors: SBGR10 360° Low Mount Sensor, (8-15' mounting heights), on/off occupancy, IP66 rated (LINK) SBGR10 P 360° Low Mount Sensor, (8-15' mounting heights), on/off photocell, IP66 rated (LINK) Dimming Sensors: ‡ SBGR10 D 3V 360° Low Mount sensor, (8-15' mounting heights), high/low occupancy dimming, IP66 rated (LINK) Bluetooth® Sensors: ‡ SBG10 OCC BTP 360° Low Mount Sensor, (7-15' mounting heights), on/off occupancy, utilizes smart hub for Bluetooth® programmability (LINK) SBG10 HL BTP 360° Low Mount Sensor, (7-15' mounting heights), high/low/(off) occupancy dimming, utilizes smart hub for Bluetooth® programmability (LINK) SBG10 ADC BTP 360° Low Mount Sensor, (7-15' mounting heights), on/off occupancy with auto dimming photocell, utilizes smart hub for Bluetooth® programmability (LINK) SBG10 ANL BTP 360° Low Mount Sensor, (7-15' mounting heights), high/low/(off) occupancy dimming with auto dimming photocell, utilizes smart hub for Bluetooth® programmability (LINK) XPoint™ Wireless: ‡ XPADS SBG10 Low Mount Sensor, (up to 10' mounting heights), XPoint™ wireless enabled with occupancy and photocell, IP66 rated (LINK) XAD XPoint™ Wireless Enabled, single relay, 0-10V dimming, energy monitoring (LINK) XAD924 XPoint™ Wireless Enabled, single relay, 0-10V dimming, energy monitoring, UL924 EM operation (LINK) Emergency: BSL310HAZSB BSL310HAZ, 10.4W internal hazardous location emergency driver, 0°C min, Certified in CA Title 20 MAEDBS ‡ Other Options: AO Field Adjustable Output, Standard setting is 8 ‡ BP Button style photo control ‡ EMD Ingress/Egress Marker Decal NSG Non Silicone Gasket ‡ UPS Uplight Shield ‡ USPOM US Point of Manufacture WGX Wire guard, factory installed			

NOTE: ‡ indicates option chosen has ordering restrictions. Please reference ordering restrictions chart.

For Accessories and Footnotes, see next page.

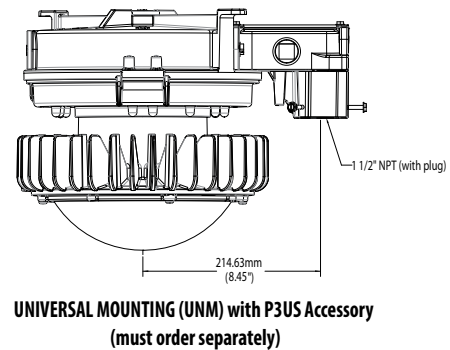
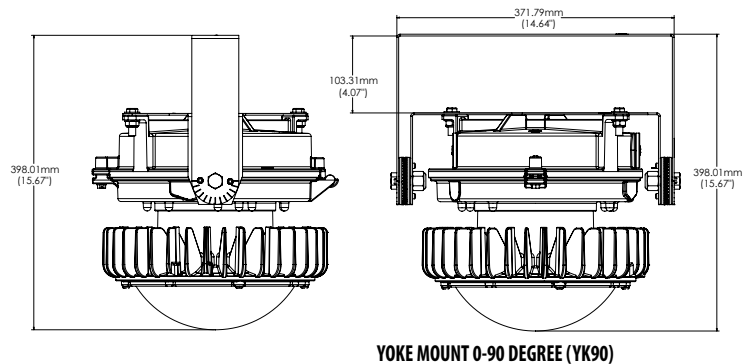
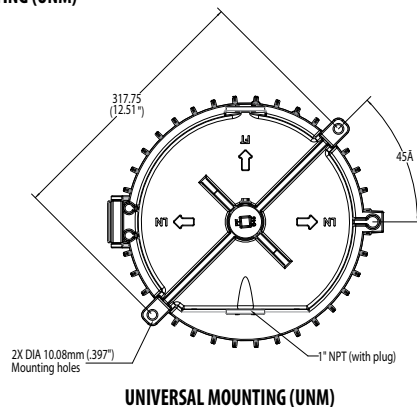
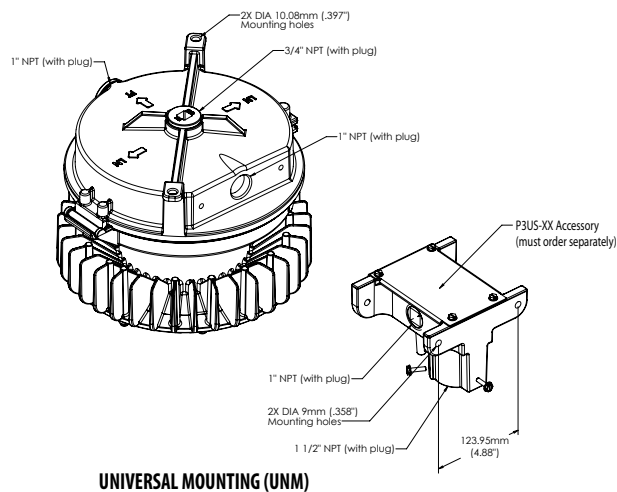
Accessories: Order as separate catalog number.

072331 XX CR	Substation Arm for Single Luminaire, XX denotes color ‡
072331CTL XX CR	Substation Arm for Single Luminaire with controls, XX denotes color ‡
HSCXX	X safety chain kit ‡
MI3502 THREAD SEAL	Thread Sealant
P3US XX CR	Universal Mount Arm, XX denotes color ‡
P3US35 XX CR	35 degree universal mount arm, XX denotes color ‡
PCPXLW XX CR	Pendant Cone, XX denotes color ‡
UPSPXLW XX CR	Uplight shield, XX denotes color ‡
WGPXLW	Wire Guard

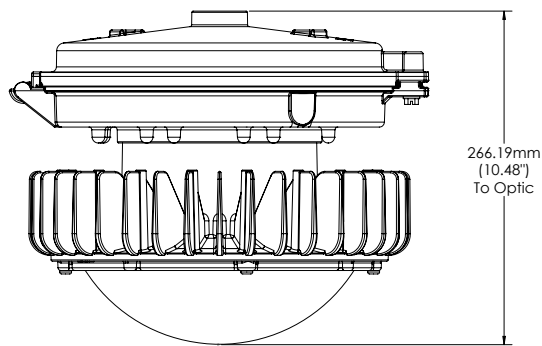
‡ Option Value Ordering Restrictions

Option value	Restriction
072331 XX CR, 072331CTL XX CR	Not available with YK90. Fixture to be mounted in down orientation only.
AO	Not available with dimming sensors, Bluetooth sensors or Xpoint wireless.
Bluetooth® Sensors	Not available with HVOLT in the 3000LM or 5000LM lumen packages. BTP sensor options with 3000LM or 5000LM lumen packages cannot dim to OFF. These lumen packages will dim to 10% minimum and cannot be turned OFF with controls. Not available with AO, Xpoint Wireless or BSL310HAZSB in any lumen package.
BP	Not available with MVOLT, HVOLT or 480.
BSL310HAZB	Available with MSI10NWL or MSI10NWL DSCNWL. Not available with HVOLT, 347, 480 or any other controls. Available with CD4K3 or CD4W3, but not required.
CNP164CWL3FT, CNP164CWWL3FT	Available with BSL310HAZB battery only.
Cords (No Plug)	Available with YK90 only.
Finish	Corrosion Resistant Paint is standard.
HSCXX	X denotes length. Available in multiple sizes. Replace X with size in inches. Example: HSCX120 = 120 inches or 10 feet.
NSG	Not available with SO or SOND. Available with Class 1 Division 2 listing only.
P3US35 XX CR, P3US XX CR	Available with UNM mounting option only.
PCPXLW XX CR	Available with PM mounting option only.
Dimming Sensors	Not available with AO.
UPS, UPSPXLW XX CR	When paired with any sensor option, the sensor viewing angle will be cutoff.
XPoint™ Wireless	Not available with HVOLT, AO or BSL310HAZSB

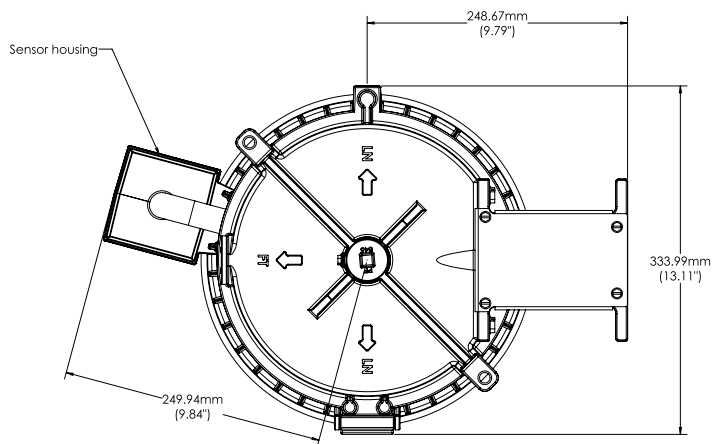
DIMENSIONAL DATA



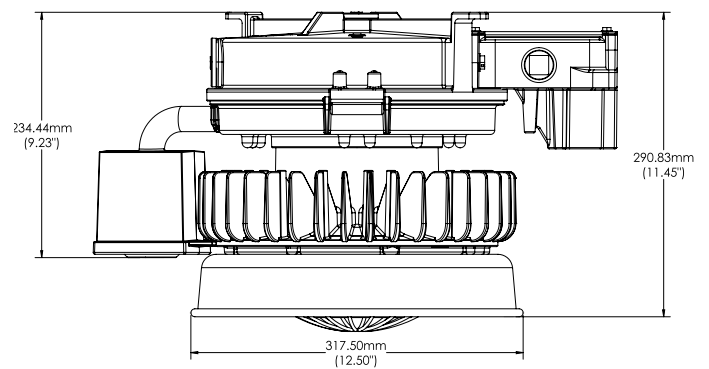
DIMENSIONAL DATA (continued)



PENDANT MOUNTING (PM)

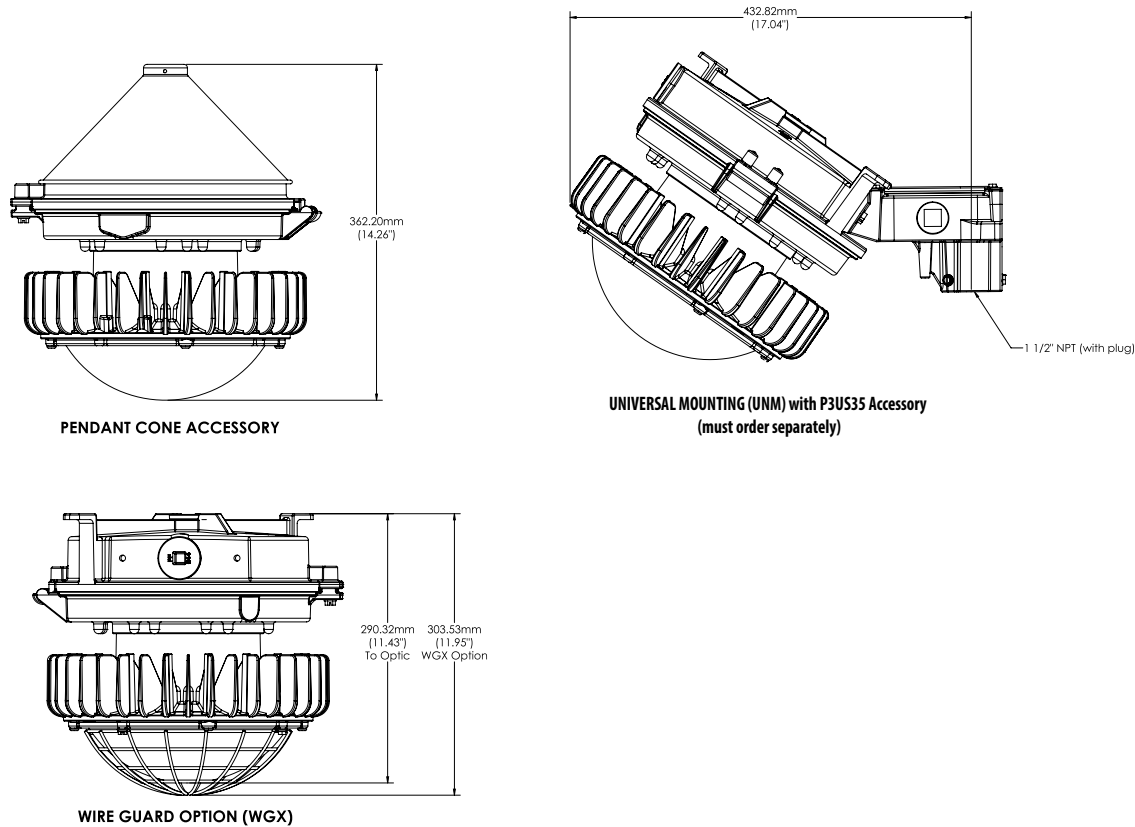


SENSOR OPTION



UPLIGHT SHIELD OPTION (UPS)

DIMENSIONAL DATA (continued)



OPERATIONAL DATA

Performance with AO Field Adjustable Output

FAO Setting	Base Max Lumen Output %
1	35%
2	48%
3	61%
4	74%
5	87%
6	100%
7	100%
8	100%

Impact Resistance (IK Ratings)

Lens Material	Rating
Glass	IK07
Silicone	IK10

Projected Lumen Maintenance (TM-21)

25C ambient						
Lumen Package	0 Hours	15,000 Hours	30,000 Hours	45,000 Hours	60,000 Hours	100,000 Hours
3,000LM	1	0.97	0.95	0.92	0.9	0.84
5,000LM	1	0.97	0.95	0.92	0.9	0.84
8,000LM	1	0.97	0.94	0.92	0.89	0.83
10,000LM	1	0.97	0.95	0.92	0.9	0.84

55C ambient						
Lumen Package	0 Hours	15,000 Hours	30,000 Hours	45,000 Hours	60,000 Hours	100,000 Hours
3,000LM	1	0.97	0.94	0.91	0.88	0.81
5,000LM	1	0.97	0.94	0.91	0.89	0.82
8,000LM	1	0.96	0.93	0.89	0.86	0.78
10,000LM	1	0.96	0.93	0.9	0.87	0.79

Default Bluetooth Sensor Programming

Model	Default Operation	Occupancy Time Delay	Photocell Mode	Photocell Set-point	Low Trim	High Trim	Dim to Off Time Delay
SBG10 OCC BTP	On/Off Occupancy Only Disabled	10 minutes	Disabled	n/a	n/a	100%	Disabled
SBG10 HL BTP	Occupancy w/ 0-10V Dimming (High/Low/Off)	10 minutes	Disabled	n/a	10%	100%	2.5 minutes
SBG10 ADC BTP	Occupancy w/ Dim & Switch Photocell	10 minutes	On/Off & Auto Dim	50 fc	10%	100%	0 seconds
SBG10 ANL BTP	Dim & Switch Photocell with High/Low Occupancy Operation	10 minutes	On/Off & Auto Dim	50 fc	10%	100%	Stay Dim/Never Off

Operating Characteristics

Package	Distribution	Delivered lumens at 3000K CCT 70CRI @ 25C	Delivered lumens at 3000K CCT 80CRI @ 25C	Delivered lumens at 3000K CCT 90CRI @ 25C	Delivered lumens at 4000K CCT 70CRI @ 25C	Delivered lumens at 4000K CCT 80CRI @ 25C	Delivered lumens at 4000K CCT 90CRI @ 25C	Delivered lumens at 5000K CCT 70CRI @ 25C	Delivered lumens at 5000K CCT 80CRI @ 25C	Delivered lumens at 5000K CCT 90CRI @ 25C	Wattage	LPW @ 4000K 80CRI
3000LM	FWD	2848	2621	2167	2988	2712	2184	3110	2746	2202	21	127
	MD0	3035	2793	2308	3183	2785	2327	3314	2821	2346	21	130
	MDU5	2700	2485	2054	2833	2803	2071	2949	2839	2087	21	131
	MDU5FR	3021	2780	2298	3169	2883	2316	3299	2920	2335	21	135
	LND	2698	2483	2053	2831	2596	2069	2947	2630	2086	21	121
	SO	3182	2928	2421	3338	2934	2440	3475	2971	2460	21	137
	WD	3098	2851	2357	3250	2850	2376	3383	2887	2395	21	133
5000LM	FWD	4852	4465	3691	5090	4619	3721	5298	4679	3750	35	130
	MD0	5169	4757	3933	5423	4745	3964	5645	4805	3996	35	134
	MDU5	4600	4233	3499	4826	4776	3528	5023	4837	3556	35	135
	MDU5FR	5146	4735	3915	5398	4911	3946	5619	4974	3978	35	139
	LND	4597	4230	3497	4822	4423	3525	5020	4480	3553	35	125
	SO	5421	4989	4124	5687	4998	4157	5920	5062	4191	35	141
	WD	5278	4857	4015	5537	4856	4048	5764	4918	4080	35	137
8000LM	FWD	7751	7133	5896	8131	7380	5944	8464	7474	5991	58	128
	MD0	8258	7600	6282	8664	7580	6333	9018	7677	6384	58	132
	MDU5	7349	6763	5590	7709	7629	5636	8025	7727	5681	58	132
	MDU5FR	8221	7565	6254	8624	7846	6304	8977	7947	6355	58	136
	LND	7344	6758	5586	7704	7066	5632	8019	7156	5677	58	123
	SO	8660	7970	6588	9085	7984	6641	9457	8086	6694	58	139
	WD	8432	7759	6414	8846	7757	6466	9208	7857	6518	58	135
10000LM	FWD	9796	9015	7452	10277	9327	7512	10698	9447	7573	74	126
	MD0	10438	9605	7940	10950	9580	8004	11398	9703	8068	74	129
	MDU5	9288	8547	7066	9744	9643	7123	10143	9766	7180	74	130
	MDU5FR	10390	9561	7904	10900	9916	7968	11346	10044	8032	74	134
	LND	9281	8541	7061	9737	8930	7118	10136	9045	7175	74	121
	SO	10946	10073	8327	11483	10091	8394	11953	10220	8461	74	136
	WD	10657	9807	8107	11180	9804	8173	11638	9930	8238	74	132

Ambient Temperature Ratings

Mounting	OCC Sensor	Xpoint	BTP Sensor	Battery	Voltage	Ambient				Supply Wire
				BSL310HAZSB		3000LM	5000LM	8000LM	10000LM	
PM, UNM, YK90	N	N	N	N	Any	65	60	55		90C
				Y	120-277	40		35		
			Y	N	Any	60	60	55		
				Y	120-277		-			
		Y	N	N	Any	65	60	55		
				Y	120-277		-			
			Y	N	Any		-			
				Y	120-277		-			
	Y	N	N	N	Any	65	60	55		
				Y	120-277	40		35		
			Y	N	Any		-			
				Y	120-277		-			
		Y	N	N	Any		-			
				Y	120-277		-			
			Y	N	Any		-			
				Y	120-277		-			

Glass Lens (MD0, MDU5, MDU5GLF, WD, ND, FWD)

40C° Ambient			
Lumen Package	C1D2	C2D1/C2D2/C3	Simultaneous C1 and C2
3000LM	T4	T6	T3
5000LM	T4	T6	T2C
8000LM	T4	T6	T3
10000LM MVOLT	T2C	T6	T3
10000LM HVOLT	T2	T4	T2C

60C° Ambient			
Lumen Package	C1D2	C2D1/C2D2/C3	Simultaneous C1 and C2
3000LM	T4	T6	T2C
5000LM	T3A	T6	T2C
8000LM	T4	T6	T2C
10000LM MVOLT	N/A	N/A	N/A
10000LM HVOLT	N/A	N/A	N/A

55C° Ambient			
Lumen Package	C1D2	C2D1/C2D2/C3	Simultaneous C1 and C2
3000LM	T3C	T6	T2D
5000LM	T3	T6	T2D
8000LM	T3C	T6	T2D
10000LM MVOLT	T3	T6	T2D
10000LM HVOLT	T2A	T3C	T2

65C° Ambient			
Lumen Package	C1D2	C2D1/C2D2/C3	Simultaneous C1 and C2
3000LM	T3C	T6	T2C
5000LM	T3A	T6	T2C
8000LM	N/A	N/A	N/A
10000LM MVOLT	N/A	N/A	N/A
10000LM HVOLT	N/A	N/A	N/A

Silicone Lens (SO, SOND)

40C° Ambient			
Lumen Package	C1D2	C2D2/C3	Simultaneous C1 and C2
3000LM	T4	T6	T2A
5000LM	T4	T6	T2A
8000LM	T4	T6	T2A
10000LM MVOLT	T2C	T6	T2A
10000LM HVOLT	T2	T6	T2A

60C° Ambient			
Lumen Package	C1D2	C2D2/C3	Simultaneous C1 and C2
3000LM	T4	T5	T2
5000LM	T3A	T5	T2
8000LM	T4	T5	T2
10000LM MVOLT	N/A	N/A	N/A
10000LM HVOLT	N/A	N/A	N/A

55C° Ambient			
Lumen Package	C1D2	C2D2/C3	Simultaneous C1 and C2
3000LM	T3C	T5	T2
5000LM	T3	T5	T2
8000LM	T3C	T5	T2
10000LM MVOLT	T3	T5	T2
10000LM HVOLT	T2A	T5	T2

65C° Ambient			
Lumen Package	C1D2	C2D2/C3	Simultaneous C1 and C2
3000LM	T3C	T4A	T1
5000LM	T3A	T4A	T1
8000LM	N/A	N/A	N/A
10000LM MVOLT	N/A	N/A	N/A
10000LM HVOLT	N/A	N/A	N/A

Petrolux® LED

Hazardous Location for Demanding Environments



Hazardous Compatibility			
Options	C1D2	C2D1	C2D2/C3
FWD, MD0, MDU5, MDU5FR, LND, WD	YES	YES	YES
SO, SOLND	YES	NO	YES
PM	YES	YES	YES
UNM	YES	YES	YES
YK90	YES	YES	YES
AO	NO	YES	YES
BP	YES	NO	YES
BSL310HAZB	YES	YES	YES
CNP16WWL3FT, CNP164CWL3FT, CNP164CWWL3FT, CNP165CDWL3FT, CNP165CDWWL3FT	YES	YES	YES
SBG10 OCC BTP, SBG10 HL BTP, SBG10 ADC BTP, SBG10 ANL BTP	YES	NO	YES
SBGR10, SBGR10 D 3V, SBGR10 P, XPADS SBG10	NO	NO	YES
XAD, XAD924	NO	YES	YES

Accessories	C1D2	C2D1	C2D2/C3
072331, 072331CTL	YES	NO	YES
P3US	YES	YES	YES
P3US35	YES	YES	YES
UPS (uplight shield)	YES	YES	YES
PC (pendant cone)	YES	YES	YES
WG (wireguard)	YES	YES	YES

Marine/NEMA4X Compatibility Chart			
Options		Marine	NEMA4X
Lumen Packages	3000LM	YES	YES
	5000LM	YES	YES
	8000LM	YES	YES
	10000LM	YES	YES
Optics	MD0	YES	YES
	MDU5	YES	YES
	MDU5FR	YES	YES
	WD	YES	YES
	LND	YES	YES
	FWD	YES	YES
	SO	NO	NO
	SOLND	NO	NO
Voltage	MVOLT	YES	YES
	120	YES	YES
	208	YES	YES
	240	YES	YES
	277	YES	YES
	HVOLT	YES	YES
	347	YES	YES
Color Temperature	480	YES	YES
	30K	YES	YES
	40K	YES	YES
CRI	50K	YES	YES
	70CRI	YES	YES
	80CRI	YES	YES
Mounting Options	90CRI	YES	YES
	UNM	YES	YES
	PM	YES	YES
Options	YK90	NO	YES
	AO	YES	YES
	BSL310HAZB	NO	NO
	EMD	YES	YES
	UPS	YES	YES
	USPOM	YES	YES
	WGX	YES	YES
Controls	Any Cordset	NO	NO
	SBGR10 OCC BTP	NO	NO
	SBGR10 HL BTP	NO	NO
	SBGR10 ADC BTP	NO	NO
	SBGR10 ANL BTP	NO	NO
	SBGR10	NO	NO
	SBGR10 D 3V	NO	NO
	SBGR10 P	NO	NO
	XPADS SBG10	NO	NO
	XAD	YES	YES
Fixture Finish	XAD924	YES	YES
	BP	NO	NO
	DGXD	YES	YES
Accessories	DWHXD	YES	NO
	DBXD	NO	NO
	72331	YES	NO
	072331-CTL	YES	NO
	PCPXLW	NO	NO
	P3US	NO	NO
	P3US35	NO	NO
	WGPXLW	YES	YES
	UPSPXLW	YES	YES