

# Petrolux® LED Low Bay Adapter Ring

Wet Location for Demanding Environments

**PXLW**



Catalog Number	
Notes	Type

### Description

- Designed 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.
- Optional robust driver solution designed to assist with power quality and drop neutral conditions. XVOLT option supports 277-480V; 6kV surge rated.
- 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). 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 finish provides 1500 hours salt fog rating. CR (corrosion resistant) optional 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.
- Precise number of fins dissipate maximum amount of heat. -40°F (-40°C) to 149°F (65°C) ambient rating.

### Listings

- UL 1598 Listed for use in wet locations
- IP65 rated.
- Luminaire is 1G vibration rated.
- DesignLights Consortium® (DLC) Premium qualified product. Not all versions of this product may be DLC Premium qualified. Please check the DLC Qualified Products List at [www.designlights.org/QPL](http://www.designlights.org/QPL) to confirm which versions are qualified.
- Marine rated — see Marine chart for option compatibility
- Certified to meet NSF Splash Zone 2 (specify FPA option)
- IK rated (see chart on page 4)

### Warranty

5-year limited warranty. Complete warranty terms located at: [www.acuitybrands.com/support/customer-support/terms-and-conditions](http://www.acuitybrands.com/support/customer-support/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.



### Typical Applications

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

### 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](http://www.acuitybrands.com/aplus).

\*See ordering tree for details

A+ Capable options indicated by this color background.

**ORDERING INFORMATION**

**Example:** PXLW 8000LM MDU5 MVOLT 40K 80CRI ARCH00 DWHXD

Series	Lumens	Optics	Voltage	Color Temperature	Color Rendering Index
PXLW	3000LM 3,000 lumens <sup>1</sup>	MD0 Medium, glass lens with minimal uplight	MVOLT (120V-277V)	30K 3000K CCT	70CRI 70CRI
	5000LM 5,000 lumens <sup>1</sup>	MDU5 Medium, glass lens with uplight	HVOLT (347V/480V)	40K 4000K CCT	80CRI 80CRI
	8000LM 8,000 lumens	MDU5GLF Medium, frosted glass lens with uplight	120 120V	50K 5000K CCT	90CRI 90CRI
	10000LM 10,000 lumens	WD Wide, glass lens	208 208V		
		ND Long and Narrow, glass lens	240 240V		
		FWD Forward throw, glass lens	277 277V		
		SO Medium, silicone optic with minimal uplight	347 347V		
		SOND Long and Narrow, silicone optic	480 480V		
			XVOLT (277-480)		
			277X 277V <sup>2</sup>		
		347X 347V <sup>2</sup>			
		480X 480V <sup>2</sup>			

Mounting Options <sup>3</sup>	Options	Finish	
ARCH00 Adapter ring for use with Crouse Hinds Champ, 0° orientation	<b>Controls:</b> <b>Non-Dimming Sensors:</b> <sup>4</sup> MSI10NWL 360° motion sensor integral, low bay 15–25 ft., on/off, IP66 rated MSI10NWL DSCNWL 360° motion sensor integral with photocell & occupancy sensor, low bay 15–25 ft., on/off, IP66 rated <b>Dimming Sensors:</b> <sup>5</sup> MSI102L3VWL 360° motion sensor integral, low bay 15-25 ft., on/off with second time-out period, goes to a dimmed state before turning off max./min. Dim setting, IP66 rated <b>Xpoint Wireless:</b> <sup>5</sup> MSI10XAWL DSCXAWL XPoint wireless enabled with photocell & occupancy sensor, low bay 15-25 ft, IP66 rated XAD XPoint™ Wireless 0-10V relay, internal, lower max ambient XAD924 XPoint™ Wireless 0-10V relay, internal, lower max ambient, meets UL924 <b>nLight Air:</b> <sup>6</sup> NLTAIR2 RSBG6 nLight AIR Generation 2 enabled 360° high mount(15-30ft) motion sensor NLTAIR2 RSBG10 nLight AIR Generation 2 enabled 360° low mount(8-15ft) motion sensor NLTAIR2 RIO nLight AIR (wireless) gen 2 control device (dimming & switching) <b>Bluetooth Dimming Sensors:</b> <sup>7</sup> SBGR10BTP 360° Low Mount Occ Sensor, pre-wired; Bluetooth® SBGR10BTP HL 360° Low Mount Occ Sensor w/HL Default, pre-wired; Bluetooth® SBGR10BTP ADC 360° Low Mount Occ Sensor w/ADC Default, pre-wired; Bluetooth® SBGR10BTP ANL 360° Low Mount Occ Sensor w/ANL Default, pre-wired; Bluetooth®	<b>Other Options:</b> E10WMCP Em Self-diagnostics battery pack, 5° min., 10W Constant power, Certified in CA Title 20 MAEDBS® AO Field Adjustable Output, Standard setting is 8° WGX Wire guard, factory installed EMD Ingress/Egress Marker Decal UPS Uplight Shield <sup>10</sup> CR Corrosion resistant paint WPH Weep hole for upper chamber water drainage FPA Food Processing Area <sup>11</sup> USPOM Assembled in the US	DGXD Gray super durable DWHXD White super durable DNXD Satin Nickle super durable DBXD Black super durable
ARCH45 Adapter ring for use with Crouse Hinds Champ, 45° orientation			
ARCH135 Adapter ring for use with Crouse Hinds Champ, 135° orientation			
ARAPMM200 Adapter ring for use with Appleton Mercmaster 2, 0° orientation			
ARAPMM300 Adapter ring for use with Appleton Mercmaster 3, 0° orientation			
ARKL00 Adapter ring for use with Killark Certilite and Certilite V, 0° orientation			
ARPTL00 Adapter ring for use with Holophane Petrolux II small (PTA), Petrolux II large (PTB), Petrolux III Medium (PWM), Petrolux LED GEN 1 and 2 (PLED and PLED2), 0° orientation			
ARPTLLP00 Adapter ring for use with Holophane Petrolux III low profile (PWS), 0° orientation			

For Accessories and Footnotes, see next page.

Accessories: Order as separate catalog number.	
WGPXLW	Wire guard, zinc coated
SCK36	36" safety chain kit
SCK72	72" safety chain kit
SCK120	120" safety chain kit
UPSPXLW-XX	Uplight shield, XX denotes color
MI-3502	Thread Sealant
PXLWARCH00 XXX	Adapter ring for use with Crouse Hinds Champ, 0° orientation <sup>11</sup>
PXLWARCH45 XXX	Adapter ring for use with Crouse Hinds Champ, 45° orientation <sup>11</sup>
PXLWARCH135 XXX	Adapter ring for use with Crouse Hinds Champ, 135° orientation <sup>11</sup>
PXLWARAPMM200 XXX	Adapter ring for use with Appleton Mercmaster 2, 0° orientation <sup>11</sup>
PXLWARAPMM300 XXX	Adapter ring for use with Appleton Mercmaster 3, 0° orientation <sup>11</sup>
PXLWARKL00 XXX	Adapter ring for use with Killark Certilite and Certilite V, 0° orientation <sup>11</sup>
PXLWARPTL00 XXX	Adapter ring for use with Holophane Petrolux 2 small/large and Petrolux 3 Medium, 0° orientation <sup>11</sup>
PXLWARPTLLP00 XXX	Adapter ring for use with Holophane Petrolux 3 low profile, 0° orientation <sup>11</sup>

**Notes**

- 1 Not available with XVOLT, 277X, 347X or 480X.
- 2 Utilizes XVOLT driver.
- 3 Orientation is used to match direction of light output for asymmetrical distribution types (LND, FWD and SOLND). This is used to match existing Crouse Hinds angled orientation types only. This shifts the focus of the light left or right from center. All other distributions and compatible products will use a 0° orientation.
- 4 Not available with XVOLT.
- 5 Not available with HVOLT, XVOLT, 347X or 480X.
- 6 Not available with HVOLT at 3000LM or 5000LM. Not available with XVOLT, 277X, 347X, 480X, AO, DIM, XAD or SBGR sensor in any lumen package.
- 7 Not available with XVOLT, 277X, 347X or 480X options. Only available in HVOLT with 8000LM or 10000LM lumen packages.
- 8 Utilizes PS1055MCP battery. Not available with XVOLT, 347X, 480X, Xpoint wireless or Bluetooth dimming sensors.
- 9 Not available with E10WMCP, SBGR10BTP, SBGR10BTPHL, SBGR10BTPADC, SBGR10BTPANL, MS1102L3VWL, MS110NWL DSCNWL, MS110XAWL DSCXAWL, XAD or XAD924 options.
- 10 When ordered with MS110NWL, MS110NWL DSCNWL, MS110XAWL DSCXAWL, SBGR10BTP, SBGR10BTP HL, SBGR10BTP ADC, or SBGR10BTP ANL, may cause sensor viewing angle cutoff.
- 11 Requires SO or SOND option. Not available with AO, SBGR10BTP, SBGR10BTPHL, SBGR10BTPADC, SBGR10BTPANL, MS110NWL, MS1102L3VWL, MS110NWL, DSCNWL, MS110XAWL DSCXAWL or E10WMCP options.
- 12 XXX denotes finish.

**Petrolux® PXLW Top Cap Compatible Products**

Holophane® Petrolux® II and Petrolux® III	Emerson® Appleton™ Mercmaster™ II	Emerson® Appleton™ Mercmaster™ III	Crouse-Hinds Series Champ®	Killark® Certilite® and Certilite® V
<ul style="list-style-type: none"> <li>• PWM (Petrolux III Medium)</li> <li>• PWS (Petrolux III Low Profile)</li> <li>• PTA (Petrolux II Small)</li> <li>• PTB (Petrolux II Large)</li> <li>• PLED, PLED2 (Petrolux LED GEN 1 and 2)</li> </ul>	<ul style="list-style-type: none"> <li>• LPA 75/100</li> <li>• LPC 75/100</li> <li>• LPS 125/150</li> <li>• LPWB 75/100</li> <li>• LPWB 75/100</li> </ul>	<ul style="list-style-type: none"> <li>• KPA75/100</li> <li>• KPAF75/100</li> <li>• KPC75/100</li> <li>• KPCH75/100</li> <li>• KPS125/150</li> <li>• KPST125/150</li> <li>• KPWB75/100</li> </ul>	<ul style="list-style-type: none"> <li>• APM2</li> <li>• APM3</li> <li>• CM2</li> <li>• CM3</li> <li>• HPM2</li> <li>• JM5</li> <li>• PM5</li> <li>• QM25</li> <li>• TWM2</li> <li>• TWM3</li> </ul> <p>* When checking compatibility with the existing Crouse Hinds products, part numbers above reference the mounting module and not luminaire model number</p>	<ul style="list-style-type: none"> <li>• VMA2B / VMA-2</li> <li>• VMA3B / VMA-3</li> <li>• VMB2B / VMB-2</li> <li>• VMB3B / VMB-3</li> <li>• VMC2B / VMC-2</li> <li>• VMC3B / VMC-3</li> <li>• VMD4B</li> <li>• VMD5B</li> <li>• VMF2B, 3B</li> <li>• VMS5B</li> <li>• VMX2B / VMX-2</li> <li>• VMX3B / VMX-3</li> <li>• VMX6B, 7B, 8B, 9B</li> </ul>

**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)**

Lumen Package	25C ambient					
	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

Lumen Package	55C ambient					
	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
SBGR10BTP	On/Off Occupancy Only Disabled	10 minutes	Disabled	n/a	n/a	100%	Disabled
SBGR10BTP HL	Occupancy w/ 0-10V Dimming (High/Low/Off)	10 minutes	Disabled	n/a	10%	100%	2.5 minutes
SBGR10BTP ADC	Occupancy w/ Dim & Switch Photocell	10 minutes	On/Off & Auto Dim	50 fc	10%	100%	0 seconds
SBGR10BTP ANL	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
	MDO	3035	2793	2308	3183	2785	2327	3314	2821	2346	21	130
	MDU5	2700	2485	2054	2833	2803	2071	2949	2839	2087	21	131
	MDUSGLF	3021	2780	2298	3169	2883	2316	3299	2920	2335	21	135
	ND	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
	MDO	5169	4757	3933	5423	4745	3964	5645	4805	3996	35	134
	MDU5	4600	4233	3499	4826	4776	3528	5023	4837	3556	35	135
	MDUSGLF	5146	4735	3915	5398	4911	3946	5619	4974	3978	35	139
	ND	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
	MDO	8258	7600	6282	8664	7580	6333	9018	7677	6384	58	132
	MDU5	7349	6763	5590	7709	7629	5636	8025	7727	5681	58	132
	MDUSGLF	8221	7565	6254	8624	7846	6304	8977	7947	6355	58	136
	ND	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
	MDO	10438	9605	7940	10950	9580	8004	11398	9703	8068	74	129
	MDU5	9288	8547	7066	9744	9643	7123	10143	9766	7180	74	130
	MDUSGLF	10390	9561	7904	10900	9916	7968	11346	10044	8032	74	134
	ND	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	SBGR BTP or NLIGHT AIR	Battery	Voltage	Ambient			Supply Wire
				PS105MCP		3000LM	5000LM	8000LM	
Adapter Ring	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	-	-		

Marine Compatibility

Catalog Nomenclature		Marine
Lumen Packages	3000LM	X
	5000LM	X
	8000LM	X
	10000LM	X
Optics	MD0	X
	MDU5	X
	MDU5GLF	X
	WD	X
	ND	X
	FWD	X
	SOND	
Voltage	MVOLT	X
	120	X
	208	X
	240	X
	277	X
	HVOLT	X
	347	X
	480	X
	XVOLT	X
	277X	X
	347X	X
	480X	X
	Color Temperature	30K
40K		X
50K		X
CRI	70CRI	X
	80CRI	X
	90CRI	X
Mounting Options	ARCH00	X
	ARCH45	X
	ARCH135	X
	ARAPMM200	X
	ARAPMM300	X
	ARKL00	X
	ARPTL00	X
	ARPTLLP00	X

Catalog Nomenclature		Marine
Options	AO	X
	WGX	X
	EMD	X
	UPS	X
	FPA	X
	CR	X
	USPOM	X
Controls	E10WMCP	
	SBGR10BTP	
	SBGR10BTPHL	
	SBGR10BTPADC	
	SBGR10BTPANL	
	MSI10NWL	
	MSI102L3VWL	
	MSI10NWL DSCNWL	
	MSI10XAWL DSCXAWL	
	XAD	X
	XAD924	X
	BP	
	PER	
Fixture Finish	PCS	
	P34	
	P48	
	PSC	
Accessories	DGXD	X
	DWHXD	X
	DNXD	
Accessories	DBXD	
	WGPXLW	X
Accessories	UPSPXLW	X