

PSLED

Predator Small LED



BOM ITEM #9A



The Predator LED is a robust, sustainable solution for any flood lighting application. The PSLED offers lumen packages for direct replacement of 100 - 1,000 watt HID floods. With energy savings exceeding 60% and expected service life over 20 years, Predator LED luminaires excel at meeting the challenges associated with flood lighting. The PSLED combines robust mechanical design features with the optical expertise, visual comfort and permanence of prismatic glass.

Mechanical

- Rugged grade A360 diecast aluminum (<1% copper)
- Rigorous 5-stage pretreatment polyester topcoat to ensure maximum durability that achieves a scribe creepage rating of 8 after 5,000 hours of salt spray
- Tool-less access with stainless steel latches available
- Adjustable knuckle-mount option, designed to fit 2.375 inch to 2.875 inch tenon with wireway access door
- Adjustable yoke mount option available in galvanized or stainless steel finish
- Tether securely holds cover in place during installation
- All Mountings are 3G vibration rated per ANSI C136.31
- P66 per IEC60068-2-3

Electrical

- Standard surge protection is 20kV/10kA "Extreme Level" per ANSI C136.2
- Optional surge protection is 10kV/5kA per ANSI C136.2
- LED light engines are rated L70 > 100,000 hrs at 25°C
- Electronic driver has an expected life of > 100,000 hours at 25°C
- Rated for -40°C / (-40°F) minimum ambient
- Driver voltage options: 120-277V 50/60 Hz and 347 50/60 Hz and 480V 50/60 Hz
- XVOLT tank driver option for protection against dropped neutrals and other power quality issues
- Single and double fusing options available
- Luminaire available with either a 0-10V dimmable driver or DALI D4i driver. Luminaire is continuous and step dimming capable via AO option or other installed controls

Optical

- Performance is comparable to 100-400 watt HPS or 175-1,000 watt MH
- Borosilicate prismatic glass ensures longevity and minimizes dirt depreciation while improving visual comfort
- NEMA optical patterns:
 - 4x4 Narrow Spot Flood
 - 4x5 Medium Flood
 - **5x5 Flood**
 - 6x5 Wide Flood Rectangle
 - 6x6 Wide Flood
- 3000K, 4000K and 5000K CCT, 70 CRI
- Full Visor option available
- Upper/Bottom Visor option available
- Vandal Guard option available
- Wire guard kit option available

Controls

- DC Connect option is a factory embedded low voltage dusk to dawn photocontrol that increases longevity vs. line voltage controls
- Local Connect option provides a simple means to collect luminaire attribute data, asset location information and execute point-to-point on/off/dim commands via secure Bluetooth link using smartphone platforms.
- Cell Connect option is an embedded network photocontrol with cellular communication. It provides digital switching, precise dimming, and revenue grade metrology. Cell Connect leverage D4i drivers to communicate real-time data to UbiVu, a cloud-based asset management system
- Additionally, it can be equipped with sensor-ready technology to support Zhaga standard sensors enabling smart city solutions utilizing long range network nodes to enable remote monitoring and control.
- Zhaga sensor-ready option allows provides platform at attach Zhaga based controls leveraging the DALI D4i protocol
- 3 pin or 7 pin rotatable NEMA photocontrol receptacle
- Premium solid-state locking-style photocontrol – 10 year rated life
- Extreme long life solid state locking-style photocontrol – 20 year rated life
- Field adjustable output
- nLight Air motion and daylight sensor

Certification & Standards

- UL/CUL Listed for wet location
- Marine environment listed with stainless steel yoke selection and without P3 or P7 photo control receptacle.
- Suitable for operation in an ambient temperature up to 40°C/ 104°F for standard product
- 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/QPL to confirm which versions are qualified.

Government Procurement

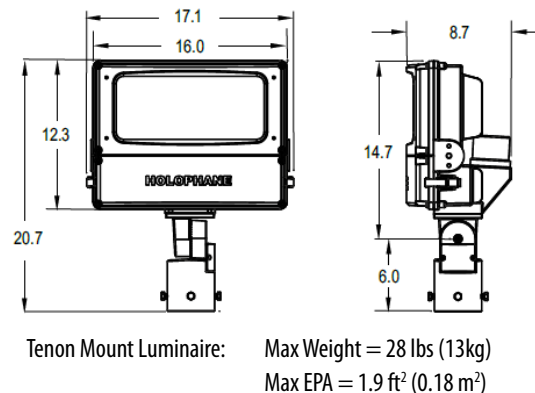
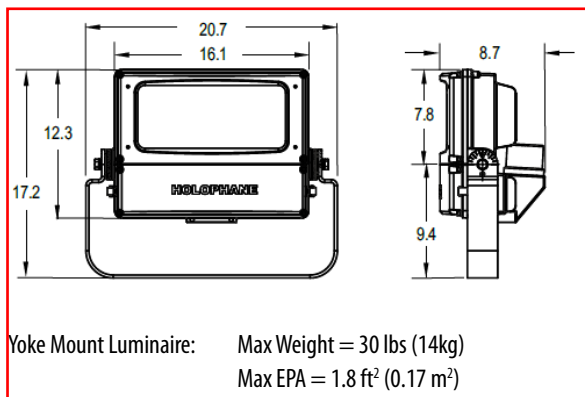
BAA – Buy America(n) Act: Product with the BAA option qualifies as a domestic end product under the Buy American Act as implemented in the FAR and DFARS. Product with the BAA option also qualifies as manufactured in the United States under DOT Buy America regulations. BABA – Build America Buy America: Product with the BAA option also qualifies as produced in the United States under the definitions of the Build America, Buy America Act. Please refer to www.acuitybrands.com/resources/buy-american for additional information.

Warranty

5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. 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.

DIMENSIONAL DATA



ORDERING INFORMATION

Series	LED Performance Package	Color Temperature	Voltage	Driver	Optics	Mounting Methods
PSLED Predator Small LED	P1 5,500 Lumens	30K 3000K CCT	MVOLT Multiple voltage (120V - 277V)	ZT 0-10V dimmable driver	44 Narrow Spot Flood (4x4)	KM Tenon Slipfitter - knuckle (cord/leads exit bottom slipfitter)
	P2 7,300 Lumens	40K 4000K CCT	347 347V	D4i D4i driver	45 Medium Flood (4x5)	KS Tenon Slipfitter - knuckle (cord exit side of slipfitter)
	P3 12,300 Lumens	50K 5000K CCT	480 480V		55 Flood (5x5)	YMS Yoke Stainless Steel
	P4 17,600 Lumens		XVOLT ³ 277V-480V		66 Wide Flood (6x6)	YMG Yoke Galvanized Steel
	P5 21,700 Lumens				65 Wide Flood Rectangle (6x5)	
	P6 27,200 Lumens					
	P7 32,300 Lumens					

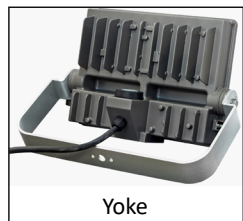
Color	Surge Protection	Cord Length	Cord Type
BKSDP Black Paint	20KV STANDARD OPTION: 20kV/10kA w/Inductor Light Extreme Surge (fail off)	04 4 ft cord length	23 12 gage, 3 conductor
BZSDP Bronze Paint	10KVMP 10kV/5kA MOV pack (fail on)	05 5 ft cord length	43 14 gage, 3 conductor
GHSDP Graphite Paint		06 6 ft cord length	63 16 gage, 3 conductor
GYSDP Gray Paint		08 8 ft cord length	
WHSDP White Paint		10 10 ft cord length	

Top Receptacle	Bottom Receptacle	Photocontrols	Embedded Controls	Misc Options	Accessories (Shipped Separately)
NTR No PER receptacle	NBR No PER receptacle	PCLL Solid State Long Life Photocontrol (fail off)	ALCB Local Connect Basic	A0 Field Adjustable Output	PSLEDFV BKSDP Full Visor - Black Paint
PR3 3 Pin rotatable NEMA receptacle	ZRB Zhaga receptacle bottom	PCSS Solid State Photocontrol 120-277V (fail off) (Not CSA Listed)	ALCC Local Connect Custom	F1 Single Fusing	PSLEDFV BZSDP Full Visor - Bronze Paint
PR7 7 Pin rotatable NEMA receptacle		SH Shorting Cap	ALCF Local Connect Full	F2 Double Fusing	PSLEDFV GHSDP Full Visor - Graphite Paint
		DZP DTL DZP DC Zhaga Photocontrol	DDC DC Connect Photocontrol	TL Tool-less entry with latches	PSLEDFV GYSDP Full Visor - Gray Paint
			UBC Cell Connect	XL No terminal block cover and not certified	PSLEDFV WHSDP Full Visor - White Paint
			LRSBOR ¹ nLight Air Occ. and daylight sensor (8-15FT)	NL NEMA Label	PSLEDUBV BKSDP Upper/Bottom Visor - Black Paint
			HRSBOR ¹ nLight Air Occ. and daylight sensor (15-30FT)	WL Wet locations listed	PSLEDUBV BZSDP Upper/Bottom Visor - Bronze Paint
				MRE ² Marine listed	PSLEDUBV GHSDP Upper/Bottom Visor - Graphite Paint
				BAA Buy America(n) Act and/or Build America Buy America Qualified	PSLEDUBV GYSDP Upper/Bottom Visor - Gray Paint
					PSLEDUBV WHSDP Upper/Bottom Visor - White Paint
					PSLEDVG Vandal Guard
					PSLEDWG Wire Guard

Note:

- 1 Only available with KM mounting method.
- 2 Requires stainless yoke mount (YMS) and cannot be configured with photo control receptacle PR3 or PR7.
- 3 XVOLT option only available with P4 and P5 performance packages.

MOUNTING OPTIONS



Yoke

VISORS & GUARD ACCESSORIES



Upper/Bottom Visor



Full Visor



Tenon Slipfitter



Wire Guard



Vandal Guard

OPTIONS MATRIX

PSLED		Voltage				Driver		Top Receptacle			Bottom Receptacle		Photocontrols				Embedded Controls							
		MVOLT	347	480	XVOLT	ZT	D4i	NTR	PR3	PR7	NBR	ZRB	PCLL	PCSS	SH	DZP	ALCB	ALCC	ALCF	DDC	UBC	HRSBOR	LRSBOR	AO
Voltage	MVOLT					Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	347					Y	N	Y	Y	Y	Y	Y	Y	N	Y	N	N	N	N	N	N	Y	Y	Y
	480					Y	N	Y	Y	Y	Y	Y	Y	N	Y	N	N	N	N	N	N	Y	Y	Y
	XVOLT					Y	Y	Y	Y	Y	Y	Y	N	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Driver	ZT	Y	Y	Y	Y			Y	Y	Y	Y	N	Y	Y	Y	N	N	N	N	N	N	Y	Y	Y
	D4i	Y	N	N	Y			Y	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	N	N
Top Receptacle	NTR	Y	Y	Y	Y	Y	Y				Y	Y	N	N	N	N	Y	Y	Y	Y	Y	Y	Y	Y
	PR3	Y	Y	Y	Y	Y	N				Y	N	Y	Y	Y	N	N	N	N	N	N	N	N	Y
	PR7	Y	Y	Y	Y	Y	Y				Y	N	Y	Y	Y	N	N	N	N	N	N	N	N	Y
Bottom Receptacle	NBR	Y	Y	Y	Y	Y	Y	Y	Y	Y			Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y
	ZRB	Y	Y	Y	Y	N	Y	Y	N	N			N	N	N	Y	N	N	N	N	N	N	N	N
Photocontrols	PCLL	Y	Y	Y	N	Y	Y	N	Y	Y	Y	N					N	N	N	N	N	N	N	Y
	PCSS	Y	N	N	N	Y	Y	N	Y	Y	Y	N					N	N	N	N	N	N	N	Y
	SH	Y	Y	Y	Y	Y	Y	N	Y	Y	Y	N					N	N	N	N	N	N	N	Y
	DZP	Y	N	N	Y	N	Y	Y	N	N	N	Y					N	N	N	N	N	N	N	N
Embedded Controls	ALCB	Y	N	N	Y	N	Y	Y	N	N	Y	N	N	N	N	N								
	ALCC	Y	N	N	Y	N	Y	Y	N	N	Y	N	N	N	N	N								
	ALCF	Y	N	N	Y	N	Y	Y	N	N	Y	N	N	N	N	N								
	DDC	Y	N	N	Y	N	Y	Y	N	N	Y	N	N	N	N	N								
	UBC	Y	N	N	Y	N	Y	Y	N	N	Y	N	N	N	N	N								
	HRSBOR	Y	Y	Y	Y	Y	N	Y	N	N	Y	N	N	N	N	N								
	LRSBOR	Y	Y	Y	Y	Y	N	Y	N	N	Y	N	N	N	N	N								
	AO	Y	Y	Y	Y	Y	N	Y	Y	Y	Y	N	Y	Y	Y	N								

MATRIX KEY

N = Combination Not available

Y = Valid Option Combination

PSLED		Driver/Voltage							
		MVOLT		347		480		XVOLT	
		ZT	D4i	ZT	D4i	ZT	D4i	ZT	D4i
Performance Package	P1	Y	Y	Y	N	Y	N	N	Y
	P2	Y	Y	Y	N	Y	N	N	Y
	P3	Y	Y	Y	N	Y	N	Y	Y
	P4	Y	Y	Y	N	Y	N	Y	Y
	P5	Y	Y	Y	N	Y	N	Y	Y
	P6	Y	Y	N	N	N	N	N	Y
	P7	Y	Y	N	N	N	N	N	Y

D4i Driver Option Defaults					
Setting	Receptacle Top	Receptacle Bottom	Control	Default Value	Alternate Values
DALI Power Bus	NTR	NBR	none	ON	Off
	NTR	NBR	ALCB / ALCC / ALCF	ON	none
	NTR	NBR	DDC	ON	none
	NTR	NBR	UBC	ON	none
	NTR	ZRB	none	ON	Off
	NTR	ZRB	DZP	ON	none
	PR7	NBR	none	OFF	On
Dimming Type	All	All	Any	LINEAR	Logarithmic
24V AUX	All	All	Any	ON (not Connected)	none
Scenes Data	All	All	Any	0 (blank)	01-255

*To program different settings, consult factory; RFD is required

PERFORMANCE DATA

Performance Package	Distribution	Input Watts	30K (3000K CCT, 70 CRI)		40K (4000K CCT, 70 CRI)		50K (5000K CCT, 70 CRI)		LLD @ 25°C		
			Lumens	LPW	Lumens	LPW	Lumens	LPW	50k Hours	75k Hours	100k Hours
P1	44	37	4,104	111	4,185	113	4,261	115	0.92	0.89	0.85
	45		5,481	148	5,589	151	5,690	154			
	55		5,622	152	5,733	155	5,837	158			
	65		5,319	144	5,424	147	5,522	149			
	66		5,553	150	5,662	153	5,764	156			
P2	44	52	5,472	105	5,579	107	5,680	109	0.92	0.89	0.85
	45		7,307	141	7,451	143	7,585	146			
	55		7,495	144	7,643	147	7,781	150			
	65		7,091	136	7,230	139	7,361	142			
	66		7,402	142	7,548	145	7,685	148			
P3	44	83	9,218	111	9,400	113	9,570	115	0.92	0.89	0.85
	45		12,310	148	12,552	151	12,779	154			
	55		12,627	152	12,876	155	13,109	158			
	65		11,945	144	12,181	147	12,401	149			
	66		12,471	150	12,716	153	12,946	156			
P4	44	123	13,219	107	13,480	110	13,724	112	0.92	0.89	0.85
	45		17,653	144	18,001	146	18,327	149			
	55		18,108	147	18,465	150	18,799	153			
	65		17,131	139	17,468	142	17,784	145			
	66		17,884	145	18,236	148	18,566	151			
P5	44	154	16,289	106	16,610	108	16,911	110	0.92	0.89	0.85
	45		21,753	141	22,181	144	22,583	147			
	55		22,314	145	22,753	148	23,165	150			
	65		21,109	137	21,525	140	21,914	142			
	66		22,037	143	22,471	146	22,878	149			
P6	44	201	20,366	101	20,768	103	21,143	105	0.92	0.89	0.85
	45		27,197	135	27,733	138	28,235	140			
	55		27,898	139	28,448	142	28,962	144			
	65		26,392	131	26,912	134	27,399	136			
	66		27,553	137	28,095	140	28,604	142			
P7	44	254	24,260	96	24,738	97	25,185	99	0.92	0.89	0.85
	45		32,397	128	33,035	130	33,632	132			
	55		33,232	131	33,886	133	34,499	136			
	65		31,438	124	32,057	126	32,637	128			
	66		32,820	129	33,467	132	34,072	134			

ELECTRICAL LOAD

Performance Package	Watts	Current (A)					
		120V	208V	240V	277V	347V	480V
P1	37	0.307	0.176	0.154	0.135	0.104	0.079
P2	52	0.417	0.238	0.207	0.18	0.143	0.105
P3	83	0.694	0.405	0.358	0.315	0.245	0.18
P4	123	0.995	0.574	0.501	0.442	0.349	0.254
P5	154	1.266	0.727	0.633	0.551	0.443	0.32
P6	201	1.69	0.96	0.84	0.74		
P7	254	2.31	1.33	1.15	0.999		

LUMINAIRE AMBIENT TEMPERATURE FACTOR

0°C	15°C	25°C	35°C	40°C
1.03	1.01	1.00	0.99	0.98