

## Panel Light Series (Hazardous Locations)

NightSky LED® is a family of modular lighting systems with interchangeable and field replaceable components that can be installed virtually anywhere, making it the perfect solution for lighting retrofit and site standardization projects. Suitable for indoor, outdoor, cold, wet and hazardous locations.

### General

Fixture housing is all aluminum construction. Standard fixture utilizes terminal block that contains one or two universal drivers that operate at 700mA. Canopy (high bay), Flood (yoke) and Recessed mounting brackets are standard. Custom adaptor kits are available for other types of mounting. Mercury and lead free, RoHS compliant. Luminaire carries a standard ten (10) years warranty. NVLAP® lab tested, DLC and Lighting Facts listed, CSA/CSAus certified (253872).

Suitable for installation in **Hazardous Locations:**

Class I, Division 2, Group A, B, C, D; Class II, Division 1, Groups E, F, G.

### Electrical

Standardized watertight LED light modules are designed to be exposed to environment providing self-cleaning and superior cooling, thus ensuring extreme longevity. Calculated lifespan of 120,000+ hours with >70% lumen maintenance (L70).

Lighting output sourced from high-power long-life CREE® X-Lamp LEDs – XPG3 179lm/W raw output (averaging over 145 lm/W efficacy true output). Light color temperature is offered in 4500K (standard) and optional 3500K, 4000K, 5000K (+/- 500K) with minimum CRI of 75.

Internal wiring features WAGO® and Molex® quick connectors. System is powered by universal high-performance Philips® drivers 120–277V (1.4–0.6A) or 347–480V (0.5–0.35A) 50/60Hz with power factor (PF) >98% and Total Harmonic Distortion (THD) <10% at full load. Rated life of 110,000+ hours @ TC 70C. Dimmable and programmable (PWM, 1-10V Dimming, DALI) options are available. Drivers provide 2.5kV internal surge suppression protection. Luminaire can be equipped with circuit module designed to withstand 10kV or 20kV of transient line surge. DC power options available.

### Optics

Choice of up to ten (10) interchangeable and field replaceable LED engines/modules fitted with fourteen (14) LED chips covered by high-efficiency lenses manufactured from injection-molded high-impact resistant and UV-stabilized Polycarbonate. Optics are precisely designed to shape Type I, II, III, IV\* and V distributions. Diffused optics for low height installations are also available. Dark Sky friendly.

### Specs

Model No.	H014T	H028T	H042T	H056T	H070T	H084T	H098T	H112T	H126T	H140T
LED Modules (Size)	1	2	3	4	5	6	7	8	9	10
LED Consumption	28W	56W	84W	112W	140W	168W	196W	224W	252W	280W
Full Consumption	30W	60W	90W	120W	150W	180W	210W	240W	270W	300W
Total Flux (3500K) - WW *	3,848 lm	7,741 lm	12,015 lm	16,289 lm	20,514 lm	24,787 lm	29,061 lm	33,335 lm	37,609 lm	41,882 lm
Total Flux (4000K) - NW*	4,166 lm	8,744 lm	13,115 lm	17,486 lm	21,760 lm	26,034 lm	30,309 lm	34,581 lm	38,857 lm	43,129 lm
Total Flux (4500K) - PW	4,241 lm	8,856 lm	13,227 lm	17,810 lm	21,925 lm	26,195 lm	31,224 lm	34,978 lm	39,511 lm	44,045 lm
Total Flux (5000K) - CW*	4,545 lm	9,119 lm	13,724 lm	17,998 lm	22,272 lm	26,546 lm	31,786 lm	35,264 lm	40,053 lm	44,765 lm
Net Weight (kg lb)	5.5kg 12.3lb	7.0kg 15.5lb	8.0kg 17.6lb	9.1kg 20.0lb	10.0kg 22.1lb	10.9kg 24.0lb	12.2kg 27.0lb	13.2kg 29.0lb	14.0kg 31.0lb	14.5kg 32.1lb
Dimension L (mm in)	208mm 7"	240mm 9"	302mm 12"	364mm 14"	426mm 17"	488mm 19"	550mm 22"	612mm 24"	674mm 27"	736mm 29"
EPA (SqFt)	0.55	0.62	0.69	0.75	0.82	0.89	0.95	1.02	1.09	1.16

CL – Canopy, High Bay

RL – Recessed

FL – Flood

YL – Yoke

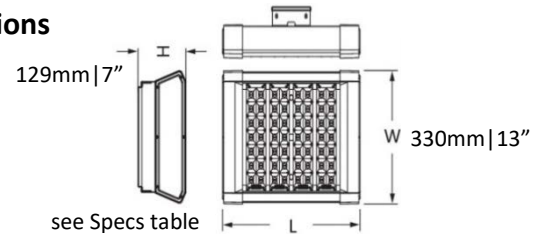
CM – Custom  
 Custom Adaptors,  
 Retrofit Kits are  
 available.  
 Contact Plant for  
 details.



### Finish

Aluminum Alloy components finished in polyurethane powder coat paint for superior protection against fade and wear. All fasteners are stainless steel. Standard colors include black, grey, bronze and white. All components feature an IP67 (NEMA 4X) enclosure rating. The NightSky LED® luminaire is suitable for operation in -40°C to +65°C and 10% ~ 95% humidity ambient environments.

### Dimensions



see Specs table



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### Photometrics

Symmetrical					Diffused		Asymmetrical	
T1	M1	N5	T5	W5	D1	D5	A2	A3
Type I Short	Type I Medium	Type V Narrow	Type V Medium	Type V Wide	Type I	Type V	Type II Medium	Type III Long
95° - 85°	145° - 95°	20° - 20°	60° - 60°	120° - 120°	Diffused	Diffused	150° - 75°	155° - 100°
highbay	alleyway	spotlight	flood	lowbay	low height	very low height	roadway	area light

### Ordering Information

sample order: BDS-H028T-Z1-A3-PW-BK-FL

BDS - - - - -						
MODEL	POWER	OPTICS	LIGHT COLOR	HOUSING	MOUNTING BRACKET	
H014T (size 1)	Z1 (120 - 277V AC)	T1 (95° - 85°)	WW (3500K +/- 500K)*	RA (Raw Grey)	CL (Canopy, High Bay)	
H028T (size 2)	Z3 (347 - 480V AC)	M1 (145° - 95°)	NW (4000K +/- 500K)*	BK (Black)	FL (Flood Light)	
H042T (size 3)		N5 (20° - 20°)	PW (4500K +/- 500K)	WT (White)	YL (Yoke Flood, Size 6+)	
H056T (size 4)		T5 (60° - 60°)	CW (5000K +/- 500K)*	BZ (Bronze)	BL (Recessed, Size 1-3)	
H070T (size 5)		W5 (120° - 120°)		CH (Custom)*	CHL (Chain High Bay)	
H084T (size 6)		D1 (I, Diffused)			CM (Custom Mount)*	
H098T (size 7)		D5 (V, Diffused)				
H112T (size 8)		A2 (150° - 75°)				
H126T (size 9)		A3 (155° - 100°)				
H140T (size 10)						

\* Custom options. Contact plant for details

### Accessories & field replaceable parts

SBX	DSH	OPTICS-COLOR (e.g. T1-PW)	Z1 (or Z3)
Soft Box Diffuser (5VA) Removes glare, softens light beam	Debris Shield (Stainless Steel) Installed between LED modules	Standard Replacement LED Module Fits all NightSky LED® fixtures	Standard Replacement LED Driver Fits all NightSky LED® fixtures

### Other hardware and installation adaptors – AdaptorMount®

AdaptorMount® is a family of standard and custom designed brackets, frames and other accessories. They ensure that any NightSky LED® fixture can be easily installed on virtually any mounting surface. Usually, no modifications are needed to existing poles, brackets and wiring. Some of AdaptorMount® brackets are shown below:

AMT-LDA-CHAM	AMT-SLF	AMT-ANG	AMT-CUSTOM
Lid Adaptor for Crouse-Hinds® Champ® Series	Slipfitter Specify ID at time of order	Angle Bracket	Custom brackets Contact Plant for details

For more details: [www.AdaptorMount.com](http://www.AdaptorMount.com)



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