

NightSky LED®

Street Light Series

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 and wet locations.

General

Fixture housing is all aluminum construction. Standard fixture utilizes terminal block that contains one or two universal drivers and operates at 700mA. Luminaire is designed to mount to 2" (51mm) ID (2.38" [61mm] O.D.) tenons. Custom adaptor kits are available for mounting on other surfaces. Fixture angle can be adjusted from -30° to +15° when installed on horizontal tenon. Fixture allows for 0° to +15° tilt when installed on vertical tenon. Mercury and lead free, RoHS compliant. Luminaire carries a standard five (5) years warranty (10 years warranty is optional). NVLAP® lab tested, DLC and Lighting Facts listed, CSA/CSAus certified (253872).

Electrical

Modular design exposed to environment accommodates lighting output sourced from high power long life Cree® X-Lamp LEDs - XPG2. Light color temperature is offered in 4500K (standard) and optional 3500K, 4000K, 5000K (+/- 500K) with minimum CRI of 75. Calculated lifespan of 110,000+ hour with >70% lumen maintenance. 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, programmable (1-10V Dimming, PWM, DALI and other) and 12-24V DC options are available. Consult factory for custom wireless controls options.

Drivers provide 2.5kV internal surge suppression protection. Luminaire is equipped with a circuit module designed to withstand 10kV (20kV is optional) of transient line surge.



Optics

Choice of up to ten (10) LED light modules fitted with fourteen (14) high-efficiency lenses manufactured from injection-molded and high-impact resistant Polycarbonate. Optics are precisely designed to shape Type I, Type II, Type III and Type V distributions. Custom Type IV options are available. Dark Sky friendly.

Finish

Cast components finished in polyurethane powder coat paint for superior protection against fade and wear. Standard colors include black, grey, bronze and white. All components feature an IP66 (NEMA 4X) enclosure rating. The NightSky LED® luminaire is suitable for operation in -40°C to +65°C and 10% ~ 95% humidity ambient environments.

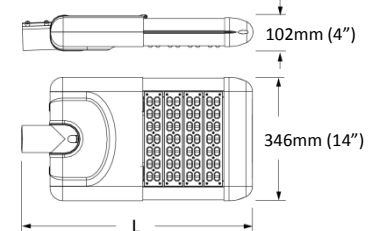
Specs

Model No.	H014A	H028A	H042A	H056A	H070A	H084A	H098A	H112A	H126A	H140A
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
System Consumption	30W	60W	90W	120W	150W	180W	210W	240W	270W	300W
Total Flux (3500K) WW	>2960 lm	>5955 lm	>9243 lm	>12530 lm	>15780 lm	>19068 lm	>22355 lm	>25643 lm	>28930 lm	>32217 lm
Total Flux (4000K) NW	>3205 lm	>6726 lm	>10089 lm	>13452 lm	>16739 lm	>20027 lm	>23315 lm	>26601 lm	>29890 lm	>33176 lm
Total Flux (4500K) PW	>3265 lm	>6815 lm	>10175 lm	>13700 lm	>16865 lm	>20150 lm	>24020 lm	>26905 lm	>30395 lm	>33885 lm
Total Flux (5000K) CW	>3496 lm	>7015 lm	>10558 lm	>13845 lm	>17133 lm	>20420 lm	>24451 lm	>27126 lm	>30810 lm	>34435 lm
Net Weight (kg lb)	4.9kg 10.8lb	6.3kg 13.9lb	7.7kg 16.9lb	9.1kg 20.0lb	10.5kg 23.1lb	11.0kg 24.2lb	12.0kg 26.4lb	12.5kg 27.5lb	13.0kg 28.6lb	13.5kg 29.7lb
Dimension L (mm in)	502mm 20"	564mm 22"	628mm 25"	688mm 27"	750mm 29"	812mm 32"	874mm 34"	936mm 37"	998mm 39"	1060mm 42"
EPA (SqFt)	0.55	0.62	0.69	0.75	0.82	0.89	0.95	1.02	1.09	1.16

Photometrics

T1	T4	T5	A2	A3	A4
Type I, Short	Type I, Medium	Type V, Medium	Type II, Medium	Type III, Long	Type IV, Short
95° - 85°	145° - 95°	60° - 60°	150° - 75°	155° - 100°	18° - 120°

Dimensions



Ordering Information

sample order: BDS-H028A-Z1-A3-PW-BK-PC-DIM

MODEL		POWER	OPTICS	LIGHT COLOR	HOUSING	ACCESSORIES
H014A (size 1)	H084A (size 6)	Z1 (120 - 277V AC)	T1 (95° - 85°)	WW (3500K +/- 500K)*	RA (Raw Grey)	blank (No accessories)
H028A (size 2)	H098A (size 7)	Z3 (347 - 480V AC)	T4 (145° - 95°)	NW (4000K +/- 500K)*	BK (Black)	PC (Photocell)
H042A (size 3)	H112A (size 8)	DC (12-24V DC)*	T5 (60° - 60°)	PW (4500K +/- 500K)	WT (White)	DIM (Dimming 0-10V DC)
H056A (size 4)	H126A (size 9)		A2 (150° - 75°)	CW (5000K +/- 500K)*	BZ (Bronze)	PWM (PWM Dimming)*
H070A (size 5)	H140A (size 10)		A3 (155° - 100°)		CH (Custom)*	WC (Wireless Controls)*
			A4 (18° - 120°)*			AMT-PA (AdaptorMount™ Pole Adaptor)

* Custom options. Contact plant for details.



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