

XSP2L™ XSPA02

LED Street Light – Double Module – Horizontal Tenon – Type II

Product Description

Designed from the ground up as a totally optimized LED street light system, the XSP Series (2 module) delivers incredible efficiency and is designed to provide L₇₀ lifetime over 100,000 hours without sacrificing application performance. Beyond substantial energy savings and reduced maintenance, Cree achieves better optical control with our NanoOptic® Precision Delivery Grid™ optic than a traditional cobra head luminaire. The Cree® XSP Series LED Street Light is the best alternative for traditional street lighting with better payback and better performance.

Performance Summary

Utilizes BetaLED® Technology

NanoOptic® Precision Delivery Grid™ optic

Made in the U.S.A. of U.S. and imported parts

CRI: Minimum 70 CRI

CCT: 4000K (+/- 300K), 5700K (+/- 500K)

Limited Warranty: 10 years on luminaire/10 years on Colorfast DeltaGuard® finish†

Accessories

Field Installed Accessories

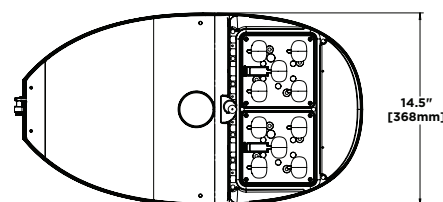
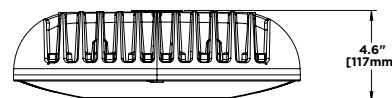
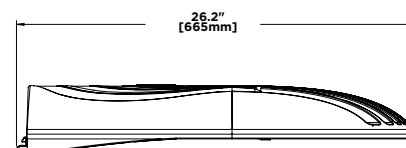
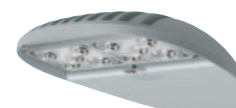
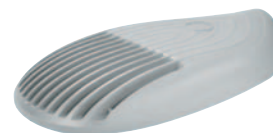
XA-SP2BLS

Backlight Control Shield

- Provides 1/2 Mounting Height Cutoff

XA-SP2BRDSPK

Bird Spikes



Ordering Information

Example: XSPA02HL-US-OPTIONS

XSP	A	O			L	-	U		
Product	Version	Mounting	Optic	Modules	Input Power	-	Voltage	Color Options	Options
XSP	A	O Horizontal Tenon	2 Type II G Type II w/ BLS	H 4000K P 5700K	L 168W	-	U Universal 120-277V	S Silver (Standard) T Black Z Bronze B Platinum Bronze W White	F Fuse - When code dictates fusing, use time delay fuse K Occupancy Control - Refer to Occupancy Control spec sheet for details N Utility Label and NEMA Photocell Receptacle - Includes Q option - Refer to Field Adjustable Output spec sheet for details Q Field Adjustable Output - Refer to Field Adjustable Output spec sheet for details R NEMA Photocell Receptacle - Photocell by others U Utility - Includes exterior wattage label that indicates the maximum available wattage of the luminaire - Includes Q option - Refer to Field Adjustable Output spec sheet for details

† See www.cree.com/lighting/products/warranty for warranty terms.



Rev. Date: 01/16/13



Product Specifications

CONSTRUCTION & MATERIALS

- Die cast aluminum housing
- Tool-less entry
- Mounts on 1.25" IP, 1.66" (42mm) O.D. or 2" IP, 2.375" (60mm) O.D. horizontal tenon (minimum 8" [203mm] in length) and is adjustable +/- 5° to allow for fixture leveling (includes two axis T-level to aid in leveling)
- Designed with 0-10V dimming capabilities. Controls by others
- Exclusive Colorfast DeltaGuard® finish features an E-Coat epoxy primer with an ultradurable powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion. Standard is silver. Black, bronze, platinum bronze and white are also available

ELECTRICAL SYSTEM

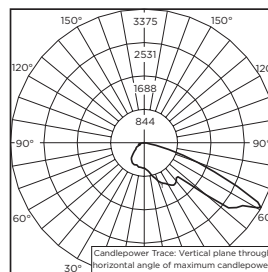
- **Input Voltage:** 120-277V, 50/60Hz
- Class 2 output
- **Power Factor:** > 0.9 at full load
- **Total Harmonic Distortion:** < 20% at full load
- Integral 10kV surge suppression protection standard
- To address inrush current, slow blow fuse or type C/D breaker should be used

REGULATORY & VOLUNTARY QUALIFICATIONS

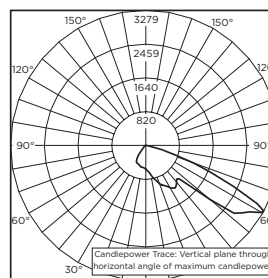
- cULus Listed
- Suitable for wet locations
- Certified to ANSI C136.31-2001, 3G bridge and overpass vibration standards
- 10kV surge suppression protection tested in accordance with IEEE/ANSI C62.41.2
- Meets CALTrans 611 Vibration testing and GR-63-CORE Section 4.4.1/5.4.2 C62.41.2
- Luminaire and finish endurance tested to withstand 5,000 hours of elevated ambient salt fog conditions as defined in ASTM Standard B 117
- RoHS Compliant
- Meets Buy American requirements within ARRA

Photometry

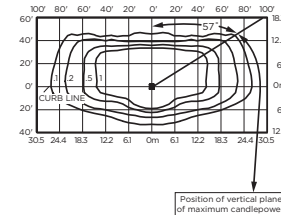
All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP certified laboratory.



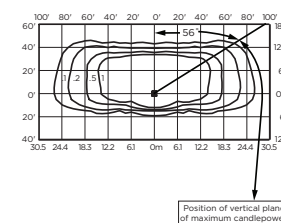
ITL Test Report #: 72723
XSPA*21A-U
Initial Delivered Lumens: 3,954



ITL Test Report #: 72722
XSPA*G1A-U
Initial Delivered Lumens: 3,427



XSPA*2HL-U
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 13,428
Initial FC at grade



XSPA*GHL-U
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 11,267
Initial FC at grade

EPA and Weight

Weight	EPA				
	1@90	2@90	2@180	3@90	4@90
28.3 lbs (12.8kg)	0.692	1.140	1.384	1.832	2.280

Lumen Output, Electrical, and Lumen Maintenance Data

Type II Distribution										
System Watts 120-277V	Input Power Designator	4000K		5700K		TOTAL CURRENT				50K Hours Calculated Lumen Maintenance Factor @ 15° C (59° F)**
		Initial Delivered Lumens	BUG Ratings* Per TM-15-11	Initial Delivered Lumens	BUG Ratings* Per TM-15-11	120V	208V	240V	277V	
168	L	13,428	B2 U0 G2	14,535	B2 U0 G2	1.71	1.01	0.89	0.78	86%

Type II Distribution w/ BLS										
System Watts 120-277V	Input Power Designator	4000K		5700K		TOTAL CURRENT				50K Hours Calculated Lumen Maintenance Factor @ 15° C (59° F)**
		Initial Delivered Lumens	BUG Ratings* Per TM-15-11	Initial Delivered Lumens	BUG Ratings* Per TM-15-11	120V	208V	240V	277V	
168	L	11,267	B2 U0 G2	12,322	B2 U0 G2	1.71	1.01	0.89	0.78	86%

* For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit www.iesna.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf.

** Projected L₇₀ (6K) Hours: > 36,000. For recommended lumen maintenance factor data see TD-13.