

# XSPR™ BXSPRA03

XSP Series LED Street Light – Horizontal Tenon Mount – Type III

## Product Description

Designed from the ground up as a totally optimized LED street light system, the XSP Series delivers incredible efficiency 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

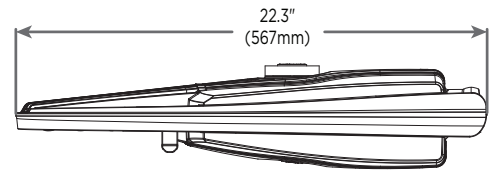
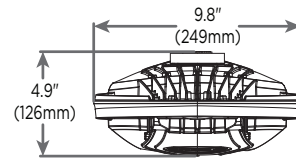
NanoOptic® Precision Delivery Grid™ optic

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



## Ordering Information

Example: BXSPRA03FC-US-OPTIONS

BXSPR	A	O							
Product	Version	Mounting	Optic	Modules	Input Power Designator	-	Voltage	Color	Options
BXSPR	A	O Horizontal Tenon	3 Type III	F Module 4000K M Module 5700K	C 42W G 25W	- US * Canada	U Universal 120-277V	S Silver	<b>Y 0-10V Dimming</b> - Control by others - Available with Input Power Designator C only <b>N Utility Label and NEMA Photocell Receptacle</b> <b>R NEMA Photocell Receptacle</b> - Photocell by others <b>U Utility</b> - Label per ANSI C136.15 - Includes exterior wattage label that indicates the maximum available wattage of the luminaire

† See [www.cree.com/lighting/products/warranty](http://www.cree.com/lighting/products/warranty) for warranty terms.



Rev. Date: 08/05/13



### Product Specifications

#### CONSTRUCTION & MATERIALS

- Die cast aluminum housing w/ UV stabilized polymeric door for long weathering and reliability
- 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
- Exclusive Colorfast DeltaGuard® finish features an E-Coat epoxy primer with an ultra-durable powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion. Standard is silver

#### ELECTRICAL SYSTEM

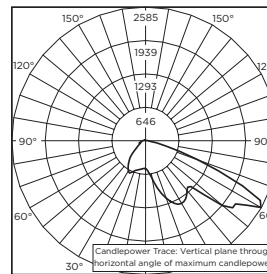
- **Input Voltage:** 120–277V, 50 / 60Hz
- Class 2 output
- **Power Factor:** > 0.9 at full load
- **Total Harmonic Distortion:** < 20% at full load
- Integral 10kV surge suppression protection standard
- To address inrush current, slow blow fuse or type C / D breaker should be used

#### REGULATORY & VOLUNTARY QUALIFICATIONS

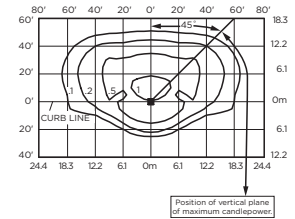
- cULus Listed
- Suitable for wet locations
- Product qualified on the DesignLights Consortium ("DLC") Qualified Products List ("QPL")
- Pending certification to ANSI C136.31-2001, 3G bridge and overpass vibration standards
- Pending CALTrans 611 Vibration testing
- 10kV surge suppression protection tested in accordance with IEEE / ANSI 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
- Meets Buy American requirements within ARRA

### Photometry

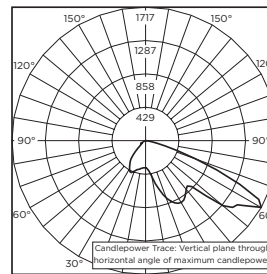
All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP certified laboratory.



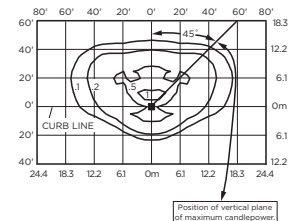
CESTL Test Report #: 2013-0150  
BXSPRA\*3FC-U  
Initial Delivered Lumens: 3,695



BXSPRA\*3FC-U  
Mounting Height: 25' (7.6m)  
Initial Delivered Lumens: 3,819  
Initial FC at grade



CESTL Test Report #: 2013-0153  
BXSPRA\*3FG-U  
Initial Delivered Lumens: 2,440



BXSPRA\*3FG-U  
Mounting Height: 25' (7.6m)  
Initial Delivered Lumens: 2,529  
Initial FC at grade

### EPA and Weight

Weight	EPA				
	1	2@180	2@90	3@90	4@90
13.9 lbs (6.3kg)	0.57	1.14	0.85	1.42	1.56

### Lumen Output, Electrical, and Lumen Maintenance Data

Input Power Designator	Type III Distribution				System Watts 120-277V Nominal	TOTAL CURRENT				50K Hours Calculated Lumen Maintenance Factor @ 15°C (59°F)***
	5700K		4000K			120V	208V	240V	277V	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11						
C	4,109	B1 U0 G1	3,819	B1 U0 G1	42	0.34	0.20	0.18	0.16	92%
G	2,722	B1 U0 G1	2,529	B1 U0 G1	25	0.21	0.12	0.10	0.10	93%

\* Actual production yield may vary between -4 and +10% of initial delivered lumens.  
 \*\* For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit [www.iesna.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf](http://www.iesna.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf). Valid with no tilt.  
 \*\*\* For recommended lumen maintenance factor data see TD-13. Calculated L70 based on 6,000 hours LM-80-08 testing: > 100,000 hours.

