XSP Series

XSPR™ LED Street/Area Luminaire - Version A

Product Description

In addition to a low initial cost, the XSPR™ LED Street luminaire maintains the familiar look of the traditional cobrahead design and delivers substantial energy savings while reducing maintenance time and costs. The hassle-free design of the XSPR™ luminaire includes tool-less entry and +/-5° fixture leveling for easy installation. Our NanoOptic® Precision Delivery Grid™ optic achieves better optical control than traditional street lighting fixtures and efficiently delivers white uniform light for safer-feeling communities.

Applications: Roadway, parking lots, walkways and general area spaces

Performance Summary

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

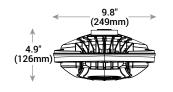
Field-Installed

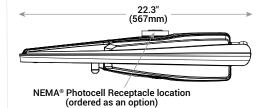
Backlight Control Shield XA-SPRBLS

- Provides 1/2 mounting height cutoff









Weight	
13.9 lbs. (6.3kg)	

Ordering Information

Example: BXSPR-A-0-1-F-C-U-S

BXSPR	A	0				U	s	
Product	Version	Mounting	Optic	сст	Input Power Designator	Voltage	Color Options	Options
BXSPR	A	0 Horizontal Tenon	1* Type II Long 2* Type II Medium 3* Type III Medium	F 4000K M 5700K	C 42W G 25W	U Universal 120-277V	S Silver	N Utility Label and NEMA* Photocell Receptacle - External wattage label per ANSI C136.15 - 7-pin receptacle per ANSI C136.41 - Factory connected 0-10V dim leads - Photocell and shorting cap by others

^{*} Available with Backlight Shield when ordered with field-installed accessory (see table above) NOTE: Price adder may apply depending on configuration









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
- · Designed with 0-10V dimming capabilities. Controls by others
- Exclusive Colorfast DeltaGuard® finish features an E-Coat epoxy primer with an ultra-durable silver powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion
- Weight: 13.9 lbs. (6.3kg)

ELECTRICAL SYSTEM

- Input Voltage: 120-277V, 50/60HzPower Factor: > 0.9 at full load
- Total Harmonic Distortion: < 20% at full load
- · Class 2 drive
- · Integral 10kV surge suppression protection standard
- To address inrush current, slow blow fuse or type C/D breaker should be used
- 10V Source Current: 0.15mA

REGULATORY & VOLUNTARY QUALIFICATIONS

- cULus Listed
- · Suitable for wet locations
- Certified to ANSI C136.31-2001, 3G bridge and overpass vibration standards
- · Meets CALTrans 611 Vibration testing
- 10kV surge suppression protection tested in accordance with IEEE/ANSI C62.41.2
- · Meets FCC Part 15 standards for conducted and radiated emissions
- 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
- DLC qualified. Please refer to www.designlights.org/QPL for most current information
- RoHS compliant. Consult factory for additional details

Electrical Data*						
		Total Current				
Input Power Designator	System Watts 120-277V	120V	208V	240V	277V	
С	42	0.34	0.20	0.18	0.16	
G	25	0.21	0.12	0.10	0.10	

^{*} Electrical data at 25°C (77°F). Actual wattage may differ by +/- 10% when operating between 120-277V +/- 10%

Recommended XSPR Version A Series Lumen Maintenance Factors (LMF) ¹						
Ambient	Input Power Designator	Initial LMF	25K hr Projected ² LMF	50K hr Projected ² LMF	75K hr Projected ² LMF	100K hr Calculated ³ LMF
5°C	С	1.04	1.00	1.01	1.00	1.00
(41°F)	G	1.04	1.02	1.01	1.00	
10°C	С	1.03	.03 1.01	1.00	0.99	0.99
(50°F)	G					
15°C	С	1.00	1.02 1.00	0.99	0.98	0.98
(59°F)	G	1.02				
20°C	С	1.01	0.00	0.00	0.97	0.97
(68°F)	G	1.01	0.99	0.98		
25°C	С	1.00	0.00		0.00	
(77°F)	G	1.00 0.98	0.97	0.96	0.96	

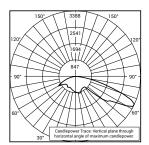
¹ Lumen maintenance values at 25°C (77°F) are calculated per TM-21 based on LM-80 data and in-situ luminaire testing ² In accordance with IESNA TM-21-11, Projected Values represent interpolated value based on time durations that are within six times (6X) the IESNA LM-80-08 total test duration (in hours) for the device under testing ((DUT) i.e. the packaged LED chip) ³ In accordance with IESNA TM-21-11, Calculated values represent time durations that exceed six times (6X) the IESNA LM-80-08 total test duration (in hours) for the device under testing ((DUT) i.e. the packaged LED chip)



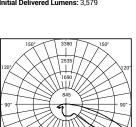
Photometry

All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP accredited laboratory. To obtain an IES file specific to your project consult: www.cree.com/Lighting/Products/Outdoor/Streetlights/XSP-Series-Streetlight

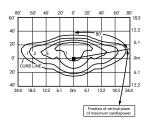
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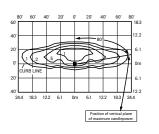
CESTL Test Report #: 2013-0152 BXSPR-A-*-1-F-C-U Initial Delivered Lumens: 3.579



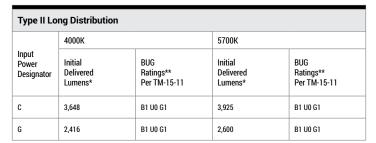
RESTL Test Report #: PL03995-001 BXSPR-A-*-1-M-C-U w/XA-SPRBLS Initial Delivered Lumens: 2,857



BXSPR-A-*-1-F-C-U Mounting Height: 25' (7.6m) A.F.G. Initial Delivered Lumens: 3,648 Initial FC at grade



BXSPR-A.*-1-F-C-U w/ XA-SPRBLS Mounting Height: 25' (7.6m) A.F.G. Initial Delivered Lumens: 2,655 Initial FC at grade

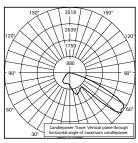


* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit:
www.ies.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf. Valid with no tilt

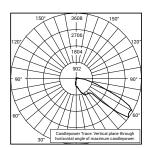
Type II Long w/BLS Distribution						
4000K		5700K				
Input Power Designator	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11		
С	2,655	B0 U1 G1	2,857	B0 U1 G1		
G	1,759	B0 U1 G1	1,893	B0 U1 G1		

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Ratling visit:
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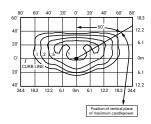
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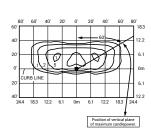
CESTL Test Report #: 2013-0151 BXSPR-A-*-2-F-C-U Initial Delivered Lumens: 3,759



RESTL Test Report #: PL03993-001 BXSPR-A-*-2-M-C-U w/XA-SPRBLS Initial Delivered Lumens: 3,097



BXSPR-A-*-2-F-C-U Mounting Height: 25' (7.6m) A.F.G. Initial Delivered Lumens: 3,819 Initial FC at grade



BXSPR-A-*-2-F-C-U w/XA-SPRBLS Mounting Height: 25' (7.6m) A.F.G. Initial Delivered Lumens: 2,878 Initial FC at grade

Type II Medium Distribution					
	4000K		5700K		
Input Power Designator	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	
С	3,819	B1 U0 G1	4,109	B1 U0 G1	
G	2,529	B1 U0 G1	2,722	B1 U0 G1	

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit:

** For more information on the IES BUG (Backlight-Upilght-Glare) Hating visit: www.ies.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf. Valid with no tilt

Type II Medium w/BLS Distribution						
	4000K		5700K			
Input Power Designator	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11		
С	2,878	B0 U1 G1	3,097	B0 U1 G1		
G	1,906	B0 U1 G0	2,052	B0 U1 G1		

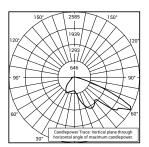
* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit:
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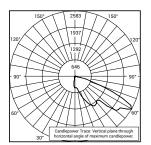
Photometry

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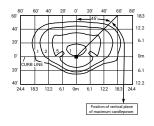
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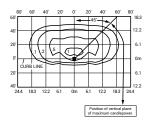
CESTL Test Report #: 2013-0150 BXSPR-A-*-3-F-C-U Initial Delivered Lumens: 3.695



RESTL Test Report #: PL03994-001 BXSPR-A-*-3-M-C-U w/ XA-SPRBLS Initial Delivered Lumens: 2,946



BXSPR-A.*-3-F-C-U Mounting Height: 25' (7.6m) A.F.G. Initial Delivered Lumens: 3,819 Initial FC at grade



BXSPR-A-*-3-F-C-U w/ XA-SPRBLS Mounting Height: 25' (7.6m) A.F.G. Initial Delivered Lumens: 2,738 Initial FC at grade

Type III Medium Distribution					
	4000K		5700K		
Input Power Designator	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	
С	3,819	B1 U0 G1	4,109	B1 U0 G1	
G	2,529	B1 U0 G1	2,722	B1 U0 G1	

^{*} Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
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	4000K		5700K	
Input Power Designator	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
С	2,738	B0 U1 G1	2,946	B0 U1 G1
G	1,813	B0 U1 G1	1,952	B0 U1 G1

^{*} Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens ** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: www.ies.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf. Valid with no tilt

Luminaire EPA

Horizontal Tenon Mount - Weight						
Single	2 @ 90°	2 @ 180°	3 @ 90°	4 @ 90°		
Tenon Configuration If used with C	Tenon Configuration If used with Cree tenons, please add tenon EPA with luminaire EPA					
PD-1H4; PT-1H	PD-2H4(90); PT-2H(90)	PD-2H4(180); PT-2H(180)	PD-3H4(90); PT-3H(90)	PD-4H4(90); PT-4H(90)		
0.57	0.85	1.14	1.42	1.56		

Tenon EPA

Part Number	EPA
PD Series Tenons	0.09
PT Series Tenons	0.10
WM-2L	0.13
XA-TMDA8	0.19

Tenons and Brackets [‡] (must specify color)							
			izontal Tenons (Aluminum) (fmm) 0.D. round aluminum or steel poles or tenons PT-3H(90) – 90° Triple PT-4H(90) – 90° Quad				
Wall Mount Brackets - Mounts to wall or roo WM-2L – Extended Ho		Direct Arm Pole Adaptor Bi - Mounts to 3-6" (76-152mi XA-TMDA8	racket m) round or square aluminum or steel poles				

[‡] Refer to the <u>Bracket and Tenons spec sheet</u> for more details

