

XSP Series

XSPR™ LED Street/Area Luminaire – Version A

Rev. Date: V6 10/15/2019

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

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

CRI: Minimum 70 CRI

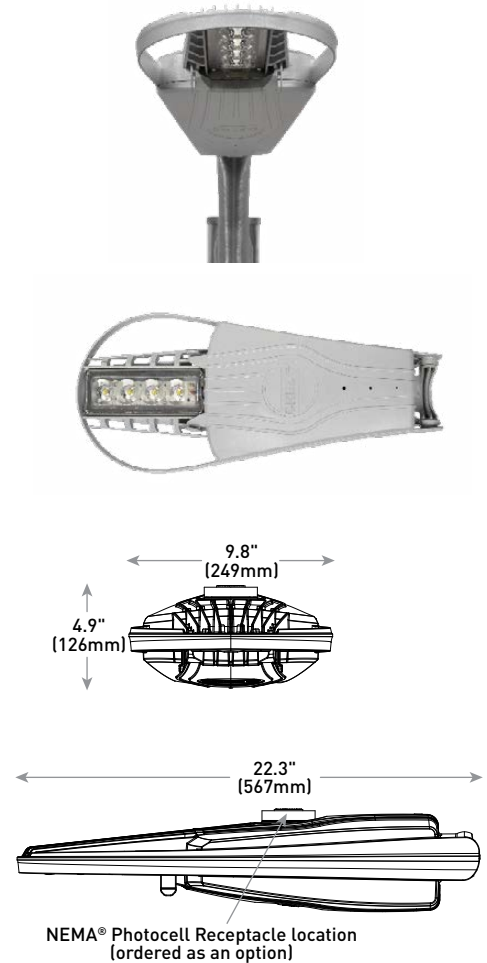
CCT: 5700K (+/- 500K)

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

*See <http://creelighting.com/warranty> for warranty terms

Accessories

Field-Installed	
Backlight Control Shield XA-SPRBL5 - Provides 1 mounting height cutoff	Shorting Cap XA-XLSHRT



Weight
13.9 lbs. (6.3kg)

Ordering Information

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

BXSPR	A	0		M		U	S	
Product	Version	Mounting	Optic	CCT	Input Power Designator	Voltage	Color Options	Options
BXSPR	A	0 Horizontal Tenon	1* Type II Long 2* Type II Medium 3* Type III Medium	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 R NEMA® 7-Pin Photocell Receptacle - 7-pin receptacle per ANSI C136.41 - Factory connected 0-10V dim leads - Requires photocell or shorting cap (by others) UTL Utility Label - Includes exterior wattage label per ANSI C136.15 that indicates the maximum available wattage of the luminaire

* Available with Backlight Shield when ordered with field-installed accessory (see table above)



US: creelighting.com (800) 236-6800

Canada: creelighting-canada.com (800) 473-1234



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
- Luminaire secures with two mounting bolts
- 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, 50/60Hz
- **Power Factor:** > 0.9 at full load
- **Total Harmonic Distortion:** < 20% at full load
- Class 2 driver
- Integral 10kV surge suppression protection standard
- When code dictates fusing, a slow blow fuse or type C/D breaker should be used to address inrush current
- Designed with 0-10V dimming capabilities. Controls by others
- **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
- ANSI C136.2 10kV surge protection, tested in accordance with IEEE/ANSI C62.41.2
- Meets FCC Part 15, Subpart B, Class A limits 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. Some exceptions apply. Please refer to <https://www.designlights.org/search/> for most current information
- RoHS compliant. Consult factory for additional details
-  **CA RESIDENTS WARNING:** Cancer and Reproductive Harm – www.p65warnings.ca.gov

Electrical Data*					
Input Power Designator	System Watts 120-277V	Total Current (A)			
		120V	208V	240V	277V
C	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%

XSPR Version A Series Ambient Adjusted Lumen Maintenance ¹						
Ambient	Optics	Initial LMF	25K hr Reported ² LMF	50K hr Reported ² LMF	75K hr Reported ² LMF	100K hr Estimated ³ LMF
5°C (41°F)	2ME, 2LG, 3ME	1.03	1.02	1.02	1.02	1.02
10°C (50°F)	2ME, 2LG, 3ME	1.03	1.02	1.02	1.02	1.02
15°C (59°F)	2ME, 2LG, 3ME	1.02	1.01	1.01	1.01	1.01
20°C (68°F)	2ME, 2LG, 3ME	1.01	1.00	1.00	1.00	1.00
25°C (77°F)	2ME, 2LG, 3ME	1.00	0.99	0.99	0.99	0.99

¹ Lumen maintenance values at 25°C (77°F) are calculated per IES TM-21 based on IES LM-80 report data for the LED package and in-situ luminaire testing. Luminaire ambient temperature factors (LATF) have been applied to all lumen maintenance factors. Please refer to the [Temperature Zone Reference Document](#) for outdoor average nighttime ambient conditions.

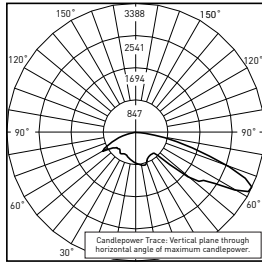
² In accordance with IES TM-21, Reported values represent interpolated values based on time durations that are up to 6x the tested duration in the IES LM-80 report for the LED

³ Estimated values are calculated and represent time durations that exceed the 6x test duration of the LED

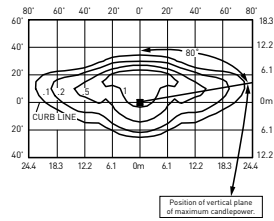
Photometry

All published luminaire photometric testing performed to IESNA LM-79-08 standards. To obtain an IES file specific to your project consult: <http://creelighting.com/products/outdoor/street-and-roadway/xsp-series-1>

1



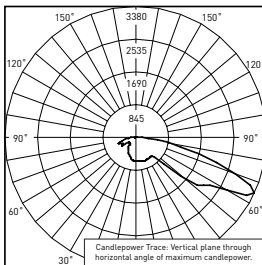
CESTL Test Report #: 2013-0152
BXSPR-A*-1-F-C-U
Initial Delivered Lumens: 3,579



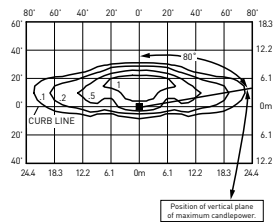
BXSPR-A*-1-F-C-U
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 3,648
 Initial FC at grade

Type II Long Distribution		
Input Power Designator	5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
C	3,925	B1 U0 G1
G	2,600	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: <https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>



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

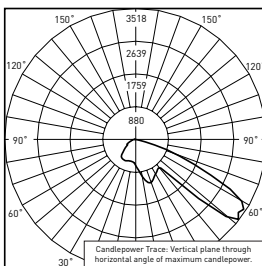


BXSPR-A*-1-F-C-U w/ XA-SPRBLs
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 2,855
 Initial FC at grade

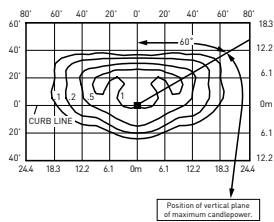
Type II Long w/BLS Distribution		
Input Power Designator	5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
C	2,857	B0 U1 G1
G	1,893	B0 U1 G1

* 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) Rating visit: <https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>

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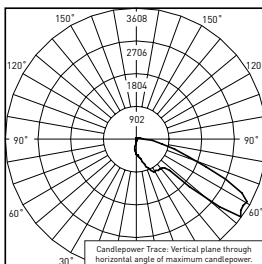
CESTL Test Report #: 2013-0151
BXSPR-A*-2-F-C-U
Initial Delivered Lumens: 3,759



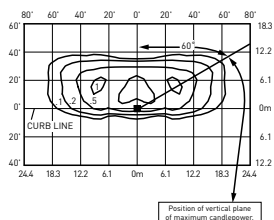
BXSPR-A*-2-F-C-U
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 3,819
 Initial FC at grade

Type II Medium Distribution		
Input Power Designator	5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
C	4,109	B1 U0 G1
G	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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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 w/ XA-SPRBLs
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 2,878
 Initial FC at grade

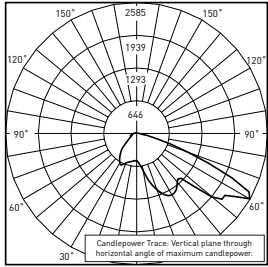
Type II Medium w/BLS Distribution		
Input Power Designator	5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
C	3,097	B0 U1 G1
G	2,052	B0 U1 G1

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
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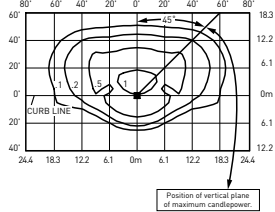
Photometry

All published luminaire photometric testing performed to IESNA LM-79-08 standards. To obtain an IES file specific to your project consult: <http://creelighting.com/products/outdoor/street-and-roadway/xsp-series-1>

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CESTL Test Report #: 2013-0150
BXSPR-A*-3-F-C-U
Initial Delivered Lumens: 3,695

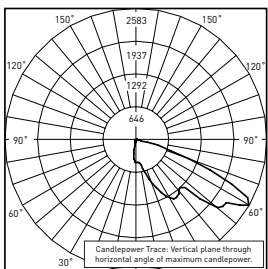


BXSPR-A*-3-F-C-U
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 3,819
 Initial FC at grade

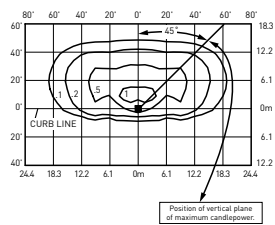
Type III Medium Distribution		
Input Power Designator	5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
C	4,109	B1 U0 G1
G	2,722	B1 U0 G1

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

Type III Medium w/BLS Distribution		
Input Power Designator	5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
C	2,946	B0 U1 G1
G	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

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Luminaire EPA

Horizontal Tenon Mount – Weight: 13.9 lbs. (6.3kg)				
Single	2 @ 90°	2 @ 180°	3 @ 90°	4 @ 90°
Tenon Configuration If used with Cree Lighting 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)	
Square Internal Mount Horizontal Tenons (Aluminum) - Mounts to 4" (102mm) square aluminum or steel poles PD-1H4 – Single PD-3H4(90) – 90° Triple PD-2H4(90) – 90° Twin PD-4H4(90) – 90° Quad PD-2H4(180) – 180° Twin	Round External Mount Horizontal Tenons (Aluminum) - Mounts to 2.375"-3" (60-76mm) O.D. round aluminum or steel poles or tenons - Mounts to 3" (76mm), 5" (127mm), or 6" (152mm) square pole with PB-1A* tenon PT-1H – Single PT-3H(90) – 90° Triple PT-2H(90) – 90° Twin PT-4H(90) – 90° Quad PT-2H(180) – 180° Twin
Wall Mount Brackets - Mounts to wall or roof WM-2L – Extended Horizontal	Direct Arm Pole Adaptor Bracket - Mounts to 3-6" (76-152mm) round or square aluminum or steel poles XA-TMDA8

‡ Refer to the [Bracket and Tenons spec sheet](#) for more details

* Specify pole size: 3 [3"], 4 [4"], 5 [5"], or 6 [6"] for single, double or triple luminaire orientation or 4 [4"], 5 [5"], or 6 [6"] for quad luminaire orientation