

XSP Series

XSP2™ LED Street/Area Light – Double Module – Version C

Product Description

Designed from the ground up as a totally optimized LED street and area lighting system, the XSP Series delivers incredible efficiency without sacrificing application performance. Beyond substantial energy savings and reduced maintenance, Cree achieves greater optical control with our NanoOptic® Precision Delivery Grid™ optic when compared to traditional cobra head luminaires. The XSP Series is the better alternative for traditional street and area lighting with quick payback and improved performance.

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

Performance Summary

Utilizes BetaLED® Technology

NanoOptic® Precision Delivery Grid™ optic

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

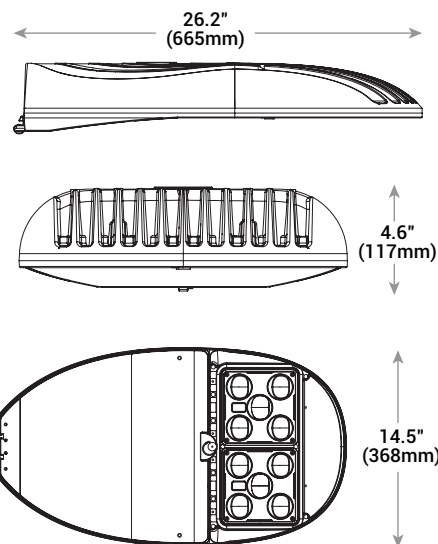
CRI: Minimum 70 CRI (4000K & 5700K); 80 CRI (3000K)

CCT: 3000K (+/- 300K); 4000K (+/- 300K); 5700K (+/- 500K)

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

Accessories

Field-Installed	
Backlight Control Shield XA-SP2BLS - Provides 1/2 mounting height cutoff	Four Point Mounting Kit XA-XSP4PTMNT - Includes large bracket for mounting to 2" (51mm) IP, 2.375" (60mm) O.D., small bracket for mounting to 1.25" (32mm) IP, 1.66" (42mm) O.D. tenon, and mounting bolts
Bird Spikes XA-SP2BRDSPK	



Ordering Information

Example: XSP C HT 2ME F 40K*UL SV

XSP	C	HT		F		*			
Product	Version	Mounting	Optic	Input Power Designator	CCT	*	Voltage	Color Options	Options
XSP	C	HT Horizontal Tenon	2ME+ Type II Medium 2LG+ Type II Long 3ME+ Type III Medium 4ME+ Type IV Medium	F 139W	30K 3000K 40K 4000K 57K 5700K	*	UL Universal 120-277V UH 347-480V	SV Silver BK Black BZ Bronze PB Platinum Bronze WH White	G Small Four Point Mounting - Mounts to 1.25" (32mm) IP, 1.66" (42mm) O.D. horizontal tenon J Large Four Point Mounting - Mounts to 2" (51mm) IP, 2.375" (60mm) O.D. horizontal tenon N Utility Label and NEMA® 3 Pin Photocell Receptacle - Includes Q9 option - Refer to Field Adjustable Output spec sheet for details Q9 Field Adjustable Output - Refer to Field Adjustable Output spec sheet for details R NEMA® 3 Pin Photocell Receptacle - Photocell by others UTL Utility - Label per ANSI C136.15 - Includes exterior wattage label that indicates the maximum available wattage of the luminaire - Includes Q9 option - Refer to Field Adjustable Output spec sheet for details

* See www.cree.com/canada/warranty for warranty terms

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

Product Specifications

CONSTRUCTION & MATERIALS

- Die cast aluminum housing
- Tool-less entry
- Mounts on 1.25" (32mm) IP, 1.66" (42mm) O.D. or 2" (51mm) 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)
- Luminaire secured with two mounting bolts standard; optional four point mounting available
- Designed with 0-10V dimming capabilities. Controls by others
- 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. Silver, black, bronze, platinum bronze and white are available
- **Weight:** 24 lbs. (11kg)

ELECTRICAL SYSTEM

- **Input Voltage:** 120-277V or 347-480V, 50/60Hz
- **Power Factor :** > 0.9 at full load
- **Total Harmonic Distortion:** < 20% at full load
- Class 1 driver
- 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
- Meets 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

Electrical Data*								
Input Power Designator	System Watts 120-277V	System Watts 347-480V	Total Current					
			120V	208V	240V	277V	347V	480V
F	139	135	1.22	0.68	0.59	0.52	0.40	0.29

* Electrical data at 25°C (77°F)

Recommended Cree® Outdoor Luminaire Lumen Maintenance Factors (LMF) ¹						
Ambient	Input Power Designator	Initial LMF	25K hr Projected ² LMF	50K hr Projected ² LMF	75K hr Projected ³ LMF	100K hr Calculated ³ LMF
5°C (41°F)	F	1.04	0.97	0.91	0.85	0.79
10°C (50°F)	F	1.03	0.96	0.90	0.84	0.79
15°C (59°F)	F	1.02	0.95	0.89	0.83	0.78
20°C (68°F)	F	1.01	0.94	0.88	0.82	0.77
25°C (77°F)	F	1.00	0.93	0.87	0.81	0.76

¹ Lumen maintenance values at 25°C (77°F) are calculated per TM-21 based on LM-80 data and in-situ luminaire testing

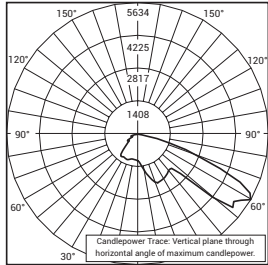
² In accordance with IESNA TM-21-11, Projected Values represent interpolated value based on time durations that are within six times (6X) the IESNA LM-80-08 total test duration (in hours) for the device under testing ((DUT) i.e. the packaged LED chip)

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)

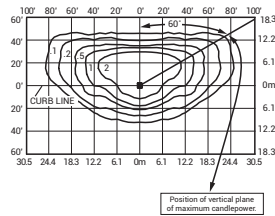
Photometry

All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP certified laboratory. To obtain an IES file specific to your project consult: <http://www.cree.com/lighting>.

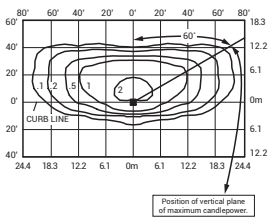
2ME



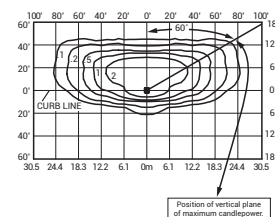
CESTL Test Report #: PL04087-001
BXSPC2MEE30K-UL**
Initial Delivered Lumens: 6,941



BXSPC2MEF30K-UL**
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 11,256
Initial FC at grade



CESTL Test Report #: PL04088-001
BXSPC2MEE30K-UL w/XA-SP1BLS**
Initial Delivered Lumens: 5,994



BXSPC2MEF30K-UL w/XA-SP2BLS**
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 9,543
Initial FC at grade

Type II Medium Distribution

Input Power Designator	3000K		4000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
F	11,256	B2 U0 G2	13,732	B2 U0 G2	14,408	B3 U0-G2

* Initial delivered lumens at 25°C (77°F). 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. Valid with no tilt

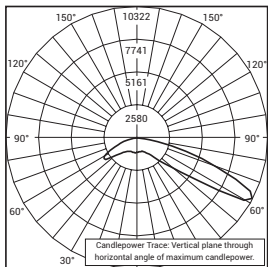
Type II Medium w/BLS Distribution

Input Power Designator	3000K		4000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
F	9,543	B2 U0 G2	11,643	B2 U0 G2	12,215	B2 U0 G2

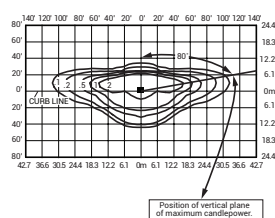
* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -4 and +10% of initial delivered lumens

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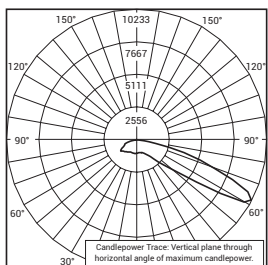
2LG



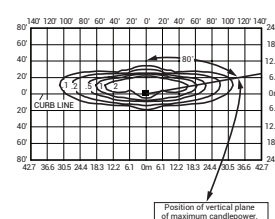
CESTL Test Report #: PL04154-001
BXSPC2LGE30K-UL**
Initial Delivered Lumens: 6,944



BXSPC2LGF30K-UL**
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 11,134
Initial FC at grade



CESTL Test Report #: PL04155-001
BXSPC2LGE30K-UL w/XA-SP1BLS**
Initial Delivered Lumens: 5,302



BXSPC2LGF30K-UL w/XA-SP2BLS**
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 8,197
Initial FC at grade

Type II Long Distribution

Input Power Designator	3000K		4000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
F	11,134	B2 U0 G2	13,583	B3 U0 G3	14,251	B3 U0 G3

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -4 and +10% of initial delivered lumens

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Type II Long w/BLS Distribution

Input Power Designator	3000K		4000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
F	8,197	B1 U0 G2	10,001	B2 U0 G2	10,493	B2 U0 G2

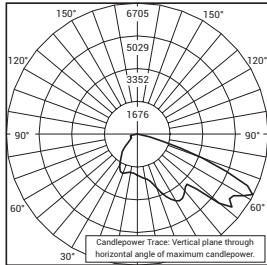
* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -4 and +10% of initial delivered lumens

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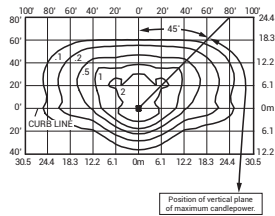
Photometry

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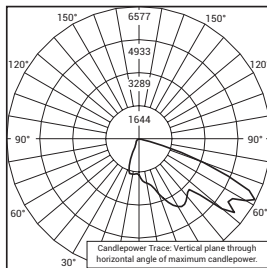
3ME



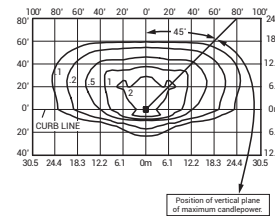
CESTL Test Report #: PL04093-001
BXSPC3MEF30K-UL**
Initial Delivered Lumens: 10,671



BXSPC3MEF30K-UL**
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 11,011
Initial FC at grade



CESTL Test Report #: PL04094-001
BXSPC3MEF30K-UL w/XA-SP2BLS**
Initial Delivered Lumens: 9,009



BXSPC3MEF30K-UL w/XA-SP2BLS**
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 9,176
Initial FC at grade

Type III Medium Distribution						
Input Power Designator	3000K		4000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
F	11,011	B2 U0 G2	13,434	B3 U0 G2	14,095	B3 U0 G2

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -4 and +10% of initial delivered lumens

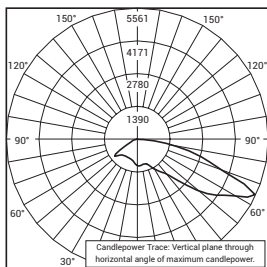
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Type III Medium w/BLS Distribution						
Input Power Designator	3000K		4000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
F	9,176	B2 U0 G2	11,195	B2 U0 G2	11,746	B2 U0 G2

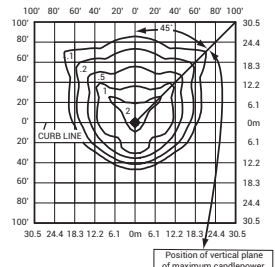
* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -4 and +10% of initial delivered lumens

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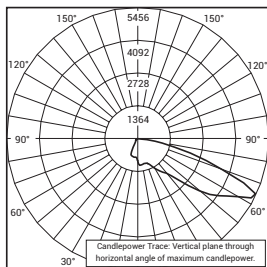
4ME



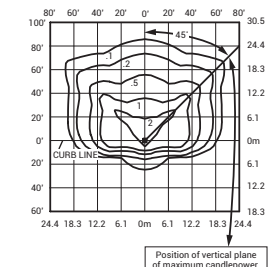
CESTL Test Report #: PL04091-001
BXSPC4MEF30K-UL**
Initial Delivered Lumens: 6,923



BXSPC4MEF30K-UL**
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 11,134
Initial FC at grade



CESTL Test Report #: PL04092-001
BXSPC4MEF30K-UL w/XA-SP1BLS**
Initial Delivered Lumens: 5,530



BXSPC4MEF30K-UL w/XA-SP1BLS**
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 8,687
Initial FC at grade

Type IV Medium Distribution						
Input Power Designator	3000K		4000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
F	11,134	B2 U0 G2	13,583	B3 U0 G3	14,251	B3 U0 G3

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -4 and +10% of initial delivered lumens

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Type IV Medium w/BLS Distribution						
Input Power Designator	3000K		4000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
F	8,687	B1 U0 G2	10,598	B2 U0 G2	11,119	B2 U0 G2

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -4 and +10% of initial delivered lumens

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Luminaire EPA

Horizontal Tenon Mount - Weight: 24 lbs. (11kg)				
Single	2 @ 90°	2 @ 180°	3 @ 90°	4 @ 90°
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)
0.69	1.14	1.38	1.83	2.28

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 Vertical Tenons (Steel) - 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 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, roof or side of wood pole WM-2L – Extended Horizontal	Direct Arm Pole Adaptor Bracket - Mounts to 3-6" (76-152mm) round or square aluminum or steel poles XA-TMDA8