

Date: 4/10/2024

Region: 4C
FAC ID: WV020

CSS No.: 96342
Maximo WO No.: 15402

Asset #: NA

Priority: Urgent



Original Work Request:

Repair high parking lot lights - physical security inspection is coming up soon and we need to figure out why these quit working.

Description of Repairs Needed:

Labor, material, and equipment to a.) replace (10) LED light heads CREE XSPLG-D-HT-2ME-18L-40K7-UL-SV-N.
**Lead Time 8 weeks.

Labor:	Labor Hrs	Labor Rate	Total
Technician	8	\$ 180.00	\$ 1,440.00
			\$ -

Material List:	Quantity	Cost	Total
LED light CREE XSPLG-D-HT-2ME-18L-40K7-UL-SV-N	10	\$ 570.00	\$ 5,700.00
			\$ -
			\$ -
			\$ -

Equipment List:	Quantity	Cost	Total
Equipment 60 ft lift	1	\$ 1,900.00	\$ 1,900.00
			\$ -
			\$ -

PM WO History:

NA

Estimate Summary:

Labor	Material	Equipment
\$ 1,440.00	\$ 5,700.00	\$1,900.00

Sub Total	G&A 12%	Fee 6%	Total Estimate
\$9,040.00	\$1,084.80	\$542.40	\$10,667.20



43 Pine Tree LN
Morgantown, WV 26508
(681) 270-0607
nselectricoffice@gmail.com

Estimate

ESTIMATE#	1040451251
DATE	03/28/2024
PO#	96342 WO15402 WV020

CUSTOMER

Julie Pape
904-465-1981

TIDEWATER, INC.
~~Karlce Demain~~
6625 Selnick Drive
Elkridge, MD 21075
(724) 678-6067
(410) 540-8700

SERVICE LOCATION

TIDEWATER, INC.
~~Karlce Demain~~
Base
7605 Us Rt 19 North
Janlew, WV 26378
(724) 678-6067
(410) 540-8700

DESCRIPTION	Replace LED Lights heads.
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Estimate

Description	Qty	Rate	Total
Labor 2 electricians	8.00	180.00	1,440.00
60 ft lift	1.00	1,900.00	1,900.00
* CREE XSPLG-D-HT-2ME-18L-40K7-UL-SV-N	10.00	570.00	5,700.00

CUSTOMER MESSAGE

Estimate Total: \$9,040.00

PRE-WORK SIGNATURE

Signed By:

XSP Series

XSPSM LED Street/Area Luminaire - Small

Rev. Date: V4 10/18/2019

Product Description

In addition to a low initial cost, the XSPSM LED Street/Area 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 XSP small 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 and area lighting fixtures and efficiently delivers white uniform light for safer-feeling communities.

Applications: Residential roads, collector roads, parking lots, and general area spaces

Performance Summary

NanoOptic® Precision Delivery Grid™ optic

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

Initial Delivered Lumens: Up to 7,825

Efficacy: Up to 113 LPW

CRI: Minimum 70 CRI

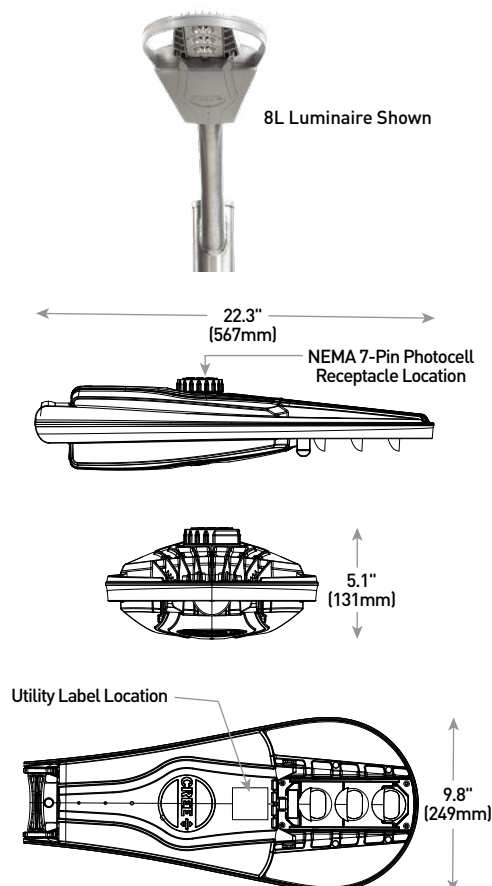
CCT: 2700K, 3000K, 4000K, 5000K, 5700K

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-SPR3BLS - Provides 1 mounting height cutoff - Polycarbonate construction - Refer to initial delivered lumen tables for lumen output



Lumen Packages	Weight
5L	9.0 lbs. (4.1kg)
8L	9.2 lbs. (4.2kg)

Ordering Information

Example: XSPSM-D-HT-2LG-5L-27K7-UL-SV-N

XSPSM	D	HT						N	
Product	Version	Mounting	Optic	Lumen Package**	CCT/CRI	Voltage	Color Options	Utility Label/Receptacle	Options
XSPSM	D	HT Horizontal Tenon	Asymmetric 2LG* Type II Long 2ME* Type II Medium 3ME* Type III Medium 4ME* Type IV Medium	5L 5,000 Lumens 8L 8,000 Lumens	27K7 2700K, 70 CRI 30K7 3000K, 70 CRI 40K7 4000K, 70 CRI 50K7 5000K, 70 CRI 57K7 5700K, 70 CRI	UL Universal 120-277V UH Universal 347-480V	BK Black BZ Bronze SV Silver	N Utility Label and NEMA® 7-Pin Photocell Receptacle - External wattage label per ANSI C136.15 - 7-pin receptacle per ANSI C136.41 - Receptacle leads are factory connected to the driver - Photocell or shorting cap by others	Q9/Q8/Q7/Q6/Q5/Q4/Q3/Q2/Q1 Field Adjustable Output - Must select Q9, Q8, Q7, Q6, Q5, Q4, Q3, Q2, or Q1 - Offers full range lumen adjustability - Includes wattage label for setting selected - Refer to pages 8 & 9 for power and lumen values - Luminaire may also be dimmed through 7-Pin receptacle with use of dimming control by others X8/X7/X6/X5/X4/X3/X2/X1 Locked Lumen Output - Must select X8, X7, X6, X5, X4, X3, X2, or X1 - Lumen output is permanently locked to the setting selected - Includes wattage label for setting selected - Refer to pages 8 & 9 for power and lumen values - Dimming is only available through 7-Pin receptacle with use of dimming control by others

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

** Lumen Package codes identify approximate light output only. Actual lumen output levels may vary depending on CCT and optic selection. Refer to Initial Delivered Lumen tables for specific lumen values



CREE **LIGHTING**

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" [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 secures with two 410 stainless steel mounting bolts
- Exclusive Colorfast DeltaGuard® finish features an E-Coat epoxy primer with an ultra-durable black, bronze or silver powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion
- Weight:** 5L: 9.0 lbs. [4.1kg]; 8L: 9.2 lbs. [4.2kg]

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
- 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
- Designed with 0-10V dimming capabilities. Controls by others
- 10V Source Current:** 0.15mA
- Operating Temperature Range:** -40°C - +40°C [-40°F - +104°F]

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
- RoHS compliant. Consult factory for additional details
- Dark Sky Friendly, IDA Approved when ordered with 27K7 or 30K7 CCTs. Please refer to <https://www.darksky.org/our-work/lighting/lighting-for-industry/fsa/fsa-products/> for most current information
- DLC and DLC Premium qualified versions available. Please refer to <https://www.designlights.org/search/> for most current information.
- CA RESIDENTS WARNING:** Cancer and Reproductive Harm – www.p65warnings.ca.gov

Electrical Data*										
Lumen Package	Optics	CCT/ CRI	System Watts 120-480V	Utility Label Wattage	Total Current (A)					
					120V	208V	240V	277V	347V	480V
5L	All	All	47	50	0.40	0.23	0.20	0.17	0.14	0.10
8L	All	All	69	70	0.58	0.34	0.29	0.26	0.20	0.15

* Electrical data at 25°C (77°F). Actual wattage may differ by +/- 10% when operating between 120-277V or 347-480V +/- 10%.

XSP Series (XSPSM) Ambient Adjusted Lumen Maintenance¹

Ambient	Initial LMF	25K hr Reported ² LMF	50K hr Reported ² LMF	75K hr Estimated ³ LMF	100K hr Estimated ³ LMF
5°C (41°F)	1.03	1.03	1.03	1.03	1.03
10°C (50°F)	1.03	1.03	1.03	1.03	1.03
15°C (59°F)	1.02	1.02	1.02	1.02	1.02
20°C (68°F)	1.01	1.01	1.01	1.01	1.01
25°C (77°F)	1.00	1.00	1.00	1.00	1.00

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.

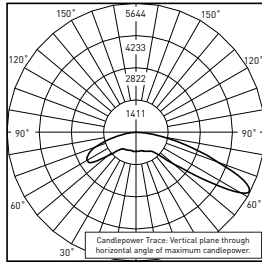
³ Estimated values are calculated and represent time durations that exceed the 6x test duration of the LED.

XSPSM LED Street/Area Luminaire - Small

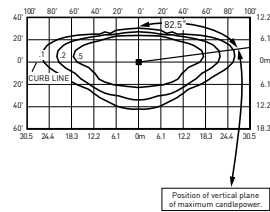
Photometry

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>

2LG



RESTL Test Report #: PL12486-001B
XSPSM-D--2LG-5L-40K7-UL-**-N**
Initial Delivered Lumens: 5,168

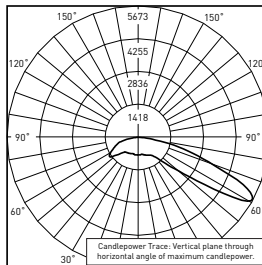


XSPSM-D--2LG-5L-40K7-UL-**-N**
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 5,200
Initial FC at grade

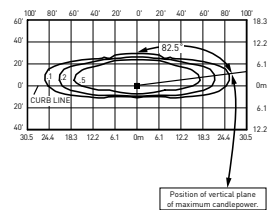
Type II Long Distribution										
Lumen Package	2700K		3000K		4000K		5000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
5L	4,930	B2 U0 G2	5,075	B2 U0 G2	5,200	B2 U0 G2	5,225	B2 U0 G2	5,225	B2 U0 G2
8L	7,375	B2 U0 G2	7,575	B2 U0 G2	7,775	B2 U0 G2	7,825	B2 U0 G2	7,825	B2 U0 G2

* 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 #: PL12762-001B
XSPSM-D--2LG-5L-40K7-UL-**-N**
w/XA-SPR3BLS
Initial Delivered Lumens: 3,651



XSPSM-D--2LG-5L-40K7-UL-**-N**
w/XA-SPR3BLS
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 3,690
Initial FC at grade

Type II Long w/BLS Distribution										
Lumen Package	2700K		3000K		4000K		5000K		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	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
5L	3,500	B1 U0 G1	3,600	B1 U0 G1	3,690	B1 U0 G1	3,710	B1 U0 G1	3,710	B1 U0 G1
8L	5,225	B1 U0 G1	5,375	B1 U0 G1	5,525	B1 U0 G1	5,550	B1 U0 G1	5,550	B1 U0 G1

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

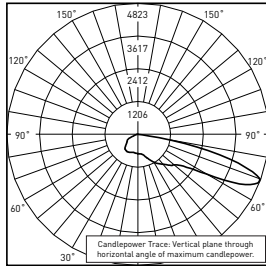
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XSPSM LED Street/Area Luminaire - Small

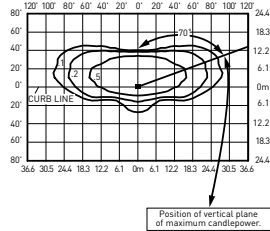
Photometry

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2ME



RESTL Test Report #: PL12483-001B
XSPSM-D--2ME-5L-40K7-UL-**-N**
Initial Delivered Lumens: 5,221

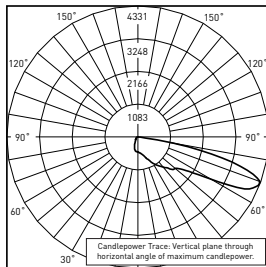


XSPSM-D--2ME-5L-40K7-UL-**-N**
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 5,200
Initial FC at grade

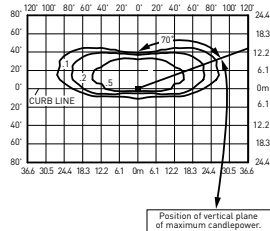
Type II Medium Distribution										
Lumen Package	2700K		3000K		4000K		5000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
5L	4,930	B1 U0 G1	5,075	B1 U0 G1	5,200	B1 U0 G1	5,225	B1 U0 G1	5,225	B1 U0 G1
8L	7,375	B1 U0 G2	7,575	B1 U0 G2	7,775	B2 U0 G2	7,825	B2 U0 G2	7,825	B2 U0 G2

* 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 #: PL12759-001B
XSPSM-D--2ME-5L-40K7-UL-**-N**
w/XA-SPR3BLS
Initial Delivered Lumens: 4,193



XSPSM-D--2ME-5L-40K7-UL-**-N**
w/XA-SPR3BLS
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 4,160
Initial FC at grade

Type II Medium w/BLS Distribution										
Lumen Package	2700K		3000K		4000K		5000K		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	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
5L	3,940	B0 U0 G1	4,060	B0 U0 G1	4,160	B0 U0 G1	4,180	B0 U0 G1	4,180	B0 U0 G1
8L	5,900	B1 U0 G2	6,050	B1 U0 G2	6,225	B1 U0 G2	6,250	B1 U0 G2	6,250	B1 U0 G2

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

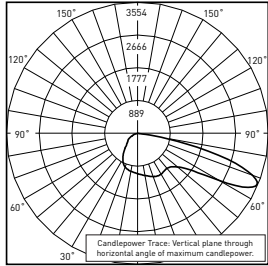
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XSPSM LED Street/Area Luminaire - Small

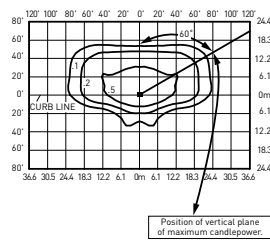
Photometry

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<http://creelighting.com/products/outdoor/street-and-roadway/xsp-series>

3ME



RESTL Test Report #: PL12484-001B
XSPSM-D--3ME-5L-40K7-UL-**-N**
Initial Delivered Lumens: 5,145

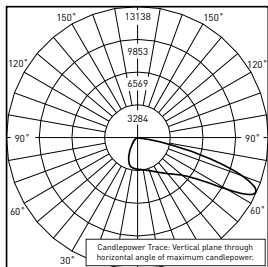


XSPSM-D--3ME-5L-40K7-UL-**-N**
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 5,200
Initial FC at grade

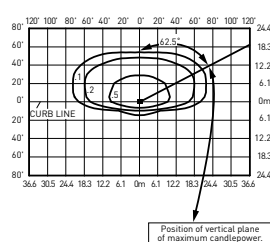
Type III Medium Distribution										
Lumen Package	2700K		3000K		4000K		5000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
5L	4,930	B1 U0 G1	5,075	B1 U0 G1	5,200	B1 U0 G1	5,225	B1 U0 G1	5,225	B1 U0 G1
8L	7,375	B2 U0 G2	7,575	B2 U0 G2	7,775	B2 U0 G2	7,825	B2 U0 G2	7,825	B2 U0 G2

* 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 #: PL12765-002B
XSPSM-D--3ME-24L-40K7-UL-**-N**
w/XA-SP2BLS
Initial Delivered Lumens: 16,503



XSPSM-D--3ME-24L-40K7-UL-**-N**
w/XA-SPR3BLS
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 3,690
Initial FC at grade

Type III Medium w/BLS Distribution										
Lumen Package	2700K		3000K		4000K		5000K		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	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
5L	3,500	B1 U0 G1	3,600	B1 U0 G1	3,690	B1 U0 G1	3,710	B1 U0 G1	3,710	B1 U0 G1
8L	5,225	B1 U0 G2	5,375	B1 U0 G2	5,525	B1 U0 G2	5,550	B1 U0 G2	5,550	B1 U0 G2

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

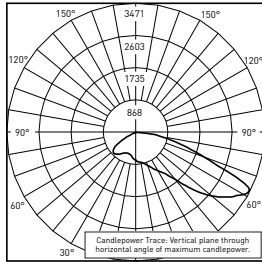
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XSPSM LED Street/Area Luminaire - Small

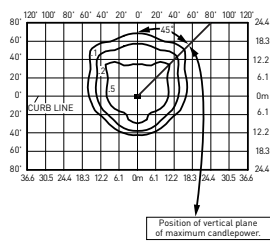
Photometry

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<http://creelighting.com/products/outdoor/street-and-roadway/xsp-series>

4ME



RESTL Test Report #: PL12485-001B
XSPSM-D--4ME-5L-40K7-UL-**-N**
Initial Delivered Lumens: 5,256

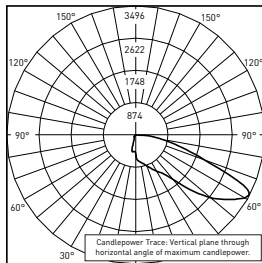


XSPSM-D--4ME-5L-40K7-UL-**-N**
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 5,200
Initial FC at grade

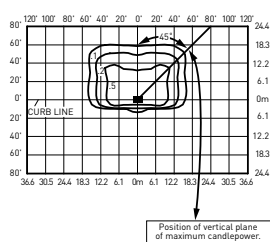
Type IV Medium Distribution										
Lumen Package	2700K		3000K		4000K		5000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
5L	4,930	B2 U0 G1	5,075	B2 U0 G1	5,200	B2 U0 G1	5,225	B2 U0 G1	5,225	B2 U0 G1
8L	7,375	B2 U0 G2	7,575	B2 U0 G2	7,775	B2 U0 G2	7,825	B2 U0 G2	7,825	B2 U0 G2

* 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 #: PL12761-001B
XSPSM-D--4ME-5L-40K7-UL-**-N**
w/XA-SPR3BLS
Initial Delivered Lumens: 3,899



XSPSM-D--4ME-5L-40K7-UL-**-N**
w/XA-SPR3BLS
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 3,850
Initial FC at grade

Type IV Medium w/BLS Distribution										
Lumen Package	2700K		3000K		4000K		5000K		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	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
5L	3,650	B1 U0 G1	3,760	B1 U0 G1	3,850	B1 U0 G1	3,870	B1 U0 G1	3,870	B1 U0 G1
8L	5,450	B1 U0 G2	5,600	B1 U0 G2	5,750	B1 U0 G2	5,800	B1 U0 G2	5,800	B1 U0 G2

* 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>

Luminaire EPA

Horizontal Tenon Mount – Weight: 5L: 9.0 lbs. (4.1kg); 8L: 9.2 lbs. (4.2kg)				
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), 4" (102mm), 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

Field Adjustable Output (Q9/Q8/Q7/Q6/Q5/Q4/Q3/Q2/Q1) Option Description:

The Field Adjustable Output option enables the street and area luminaire within the XSP Series on this page to be tuned to the exact needs of a particular application through multiple levels of adjustment. When ordered with the Q option, the luminaire will be shipped from the factory at the selected lumen output, will be fully adjustable between the outputs, and will include a wattage label that indicates the wattage of the luminaire at the selected lumen output (Rounded to nearest 10 watts per ANSI C136.15-2015.). Additional dimming functionality is available when a dimming control (by others) is used in the 7-Pin receptacle.

Locked Lumen Output (X8/X7/X6/X5/X4/X3/X2/X1) Option Description:

The Locked Lumen Output option on this page permanently locks the lumen output on the XSP Series street and area luminaire to the setting selected. When ordered with the X option, the luminaire will be shipped from the factory at the lumen output setting selected, and will include a wattage label that indicates the wattage of the setting selected. When this option is selected, the luminaire output is not able to be adjusted in the field except if a dimming control (by others) is used in the 7-Pin receptacle.

Q & X Option Power & Lumen Data – 5L

Q Option Setting	X Option Setting	CCT/ CRI	System Watts†	Label Wattage	Lumen Values†					Optics Qualified on DLC QPL	
			120-480V		2LG/2ME/3ME/4ME	2LG w/BLS	2ME w/BLS	3ME w/BLS	4ME w/BLS	Standard	Premium
Q9	N/A (Full Power)	27K7	47	50	4,930	3,500	3,940	3,500	3,650	2LG, 2ME, 3ME, 4ME	2LG, 2ME, 3ME, 4ME
		30K7			5,075	3,600	4,060	3,600	3,760		
		40K7			5,200	3,690	4,160	3,690	3,850		
		50K7			5,225	3,710	4,180	3,710	3,870		
		57K7			5,225	3,710	4,180	3,710	3,870		
Q8	X8	27K7	44	40	4,780	3,390	3,820	3,390	3,540	2LG, 2ME, 3ME, 4ME	2LG, 2ME, 3ME, 4ME
		30K7			4,910	3,490	3,930	3,490	3,630		
		40K7			5,050	3,590	4,040	3,590	3,740		
		50K7			5,075	3,600	4,060	3,600	3,760		
		57K7			5,075	3,600	4,060	3,600	3,760		
Q7	X7	27K7	42	40	4,580	3,250	3,660	3,250	3,390	2LG, 2ME, 3ME, 4ME	2LG, 2ME, 3ME, 4ME
		30K7			4,710	3,340	3,770	3,340	3,490		
		40K7			4,830	3,430	3,860	3,430	3,570		
		50K7			4,860	3,450	3,890	3,450	3,600		
		57K7			4,860	3,450	3,890	3,450	3,600		
Q6	X6	27K7	40	40	4,450	3,160	3,560	3,160	3,290	2LG, 2ME, 3ME, 4ME	2LG, 2ME, 3ME, 4ME
		30K7			4,570	3,240	3,660	3,240	3,380		
		40K7			4,690	3,330	3,750	3,330	3,470		
		50K7			4,720	3,350	3,780	3,350	3,490		
		57K7			4,720	3,350	3,780	3,350	3,490		
Q5	X5	27K7	37	40	4,125	2,930	3,300	2,930	3,050	2LG, 2ME, 3ME, 4ME	2LG, 2ME, 3ME, 4ME
		30K7			4,250	3,020	3,400	3,020	3,150		
		40K7			4,350	3,090	3,480	3,090	3,220		
		50K7			4,375	3,110	3,500	3,110	3,240		
		57K7			4,375	3,110	3,500	3,110	3,240		
Q4	X4	27K7	33	30	3,800	2,700	3,040	2,700	2,810	2LG, 2ME, 3ME, 4ME	2LG, 2ME, 3ME, 4ME
		30K7			3,925	2,790	3,140	2,790	2,900		
		40K7			4,025	2,860	3,220	2,860	2,980		
		50K7			4,050	2,880	3,240	2,880	3,000		
		57K7			4,050	2,880	3,240	2,880	3,000		
Q3	X3	27K7	30	30	3,480	2,470	2,780	2,470	2,580	2LG, 2ME, 3ME, 4ME	2LG, 2ME, 3ME, 4ME
		30K7			3,580	2,540	2,860	2,540	2,650		
		40K7			3,670	2,610	2,940	2,610	2,720		
		50K7			3,700	2,630	2,960	2,630	2,740		
		57K7			3,700	2,630	2,960	2,630	2,740		
Q2	X2	27K7	27	30	3,160	2,240	2,530	2,240	2,340	2LG, 2ME, 3ME, 4ME	2LG, 2ME, 3ME, 4ME
		30K7			3,250	2,310	2,600	2,310	2,410		
		40K7			3,340	2,370	2,670	2,370	2,470		
		50K7			3,360	2,390	2,690	2,390	2,490		
		57K7			3,360	2,390	2,690	2,390	2,490		
Q1	X1	27K7	24	20	2,890	2,050	2,310	2,050	2,140	2LG, 2ME, 3ME, 4ME	2LG, 2ME, 3ME, 4ME
		30K7			2,970	2,110	2,380	2,110	2,200		
		40K7			3,040	2,160	2,430	2,160	2,250		
		50K7			3,060	2,170	2,450	2,170	2,260		
		57K7			3,060	2,170	2,450	2,170	2,260		

† Electrical and lumen data at 25°C (77°F). Actual wattage and lumen output may differ by +/-10% when operating between 120-277V or 347-480V +/-10%

Field Adjustable Output (Q9/Q8/Q7/Q6/Q5/Q4/Q3/Q2/Q1) Option Description:

The Field Adjustable Output option enables the street and area luminaire within the XSP Series on this page to be tuned to the exact needs of a particular application through multiple levels of adjustment. When ordered with the Q option, the luminaire will be shipped from the factory at the selected lumen output, will be fully adjustable between the outputs, and will include a wattage label that indicates the wattage of the luminaire at the selected lumen output (Rounded to nearest 10 watts per ANSI C136.15-2015.). Additional dimming functionality is available when a dimming control by others is used in the 7-Pin receptacle.

Locked Lumen Output (X8/X7/X6/X5/X4/X3/X2/X1) Option Description:

The Locked Lumen Output option on this page permanently locks the lumen output on the XSP Series street and area luminaire to the setting selected. When ordered with the X option, the luminaire will be shipped from the factory at the lumen output setting selected, and will include a wattage label that indicates the wattage of the setting selected. When this option is selected, the luminaire output is not able to be adjusted in the field except if a dimming control by others is used in the 7-Pin receptacle.

Q & X Option Power & Lumen Data – 8L

Q Option Setting	X Option Setting	CCT/ CRI	System Watts [†] 120-480V	Label Wattage	Lumen Values [†]					Optics Qualified on DLC QPL	
					2LG/2ME/3ME/4ME	2LG w/BLS	2ME w/BLS	3ME w/BLS	4ME w/BLS	Standard	Premium
Q9	N/A (Full Power)	27K7	69	70	7,375	5,225	5,900	5,225	5,450	2LG, 2ME, 3ME, 4ME	
		30K7			7,575	5,375	6,050	5,375	5,600		2LG, 2ME, 3ME, 4ME
		40K7			7,775	5,525	6,225	5,525	5,750	2LG, 2ME, 3ME, 4ME	
		50K7			7,825	5,550	6,250	5,550	5,800	2LG, 2ME, 3ME, 4ME	
		57K7			7,825	5,550	6,250	5,550	5,800	2LG, 2ME, 3ME, 4ME	
Q8	X8	27K7	65	70	7,150	5,075	5,725	5,075	5,300		2LG, 2ME, 3ME, 4ME
		30K7			7,325	5,200	5,850	5,200	5,425		2LG, 2ME, 3ME, 4ME
		40K7			7,525	5,350	6,025	5,350	5,575	2LG, 2ME, 3ME, 4ME	
		50K7			7,575	5,375	6,050	5,375	5,600	2LG, 2ME, 3ME, 4ME	
		57K7			7,575	5,375	6,050	5,375	5,600	2LG, 2ME, 3ME, 4ME	
Q7	X7	27K7	62	60	6,850	4,875	5,475	4,875	5,075		2LG, 2ME, 3ME, 4ME
		30K7			7,025	5,000	5,625	5,000	5,200		2LG, 2ME, 3ME, 4ME
		40K7			7,225	5,125	5,775	5,125	5,350	2LG, 2ME, 3ME, 4ME	
		50K7			7,275	5,175	5,825	5,175	5,375		2LG, 2ME, 3ME, 4ME
		57K7			7,275	5,175	5,825	5,175	5,375		2LG, 2ME, 3ME, 4ME
Q6	X6	27K7	59	60	6,650	4,720	5,325	4,720	4,920		2LG, 2ME, 3ME, 4ME
		30K7			6,825	4,850	5,450	4,850	5,050		2LG, 2ME, 3ME, 4ME
		40K7			7,000	4,970	5,600	4,970	5,175		2LG, 2ME, 3ME, 4ME
		50K7			7,050	5,000	5,650	5,000	5,225		2LG, 2ME, 3ME, 4ME
		57K7			7,050	5,000	5,650	5,000	5,225		2LG, 2ME, 3ME, 4ME
Q5	X5	27K7	54	50	6,125	4,350	4,900	4,350	4,530		2LG, 2ME, 3ME, 4ME
		30K7			6,275	4,460	5,025	4,460	4,640		2LG, 2ME, 3ME, 4ME
		40K7			6,450	4,580	5,150	4,580	4,770		2LG, 2ME, 3ME, 4ME
		50K7			6,500	4,620	5,200	4,620	4,810		2LG, 2ME, 3ME, 4ME
		57K7			6,500	4,620	5,200	4,620	4,810		2LG, 2ME, 3ME, 4ME
Q4	X4	27K7	49	50	5,750	4,080	4,600	4,080	4,260		2LG, 2ME, 3ME, 4ME
		30K7			5,900	4,190	4,720	4,190	4,370		2LG, 2ME, 3ME, 4ME
		40K7			6,050	4,300	4,840	4,300	4,480		2LG, 2ME, 3ME, 4ME
		50K7			6,100	4,330	4,880	4,330	4,510		2LG, 2ME, 3ME, 4ME
		57K7			6,100	4,330	4,880	4,330	4,510		2LG, 2ME, 3ME, 4ME
Q3	X3	27K7	44	40	5,200	3,690	4,160	3,690	3,850		2LG, 2ME, 3ME, 4ME
		30K7			5,350	3,800	4,280	3,800	3,960		2LG, 2ME, 3ME, 4ME
		40K7			5,475	3,890	4,380	3,890	4,050		2LG, 2ME, 3ME, 4ME
		50K7			5,525	3,920	4,420	3,920	4,090		2LG, 2ME, 3ME, 4ME
		57K7			5,525	3,920	4,420	3,920	4,090		2LG, 2ME, 3ME, 4ME
Q2	X2	27K7	40	40	4,750	3,370	3,800	3,370	3,520		2LG, 2ME, 3ME, 4ME
		30K7			4,875	3,460	3,900	3,460	3,610		2LG, 2ME, 3ME, 4ME
		40K7			4,975	3,530	3,980	3,530	3,680		2LG, 2ME, 3ME, 4ME
		50K7			5,025	3,570	4,020	3,570	3,720		2LG, 2ME, 3ME, 4ME
		57K7			5,025	3,570	4,020	3,570	3,720		2LG, 2ME, 3ME, 4ME
Q1	X1	27K7	35	40	4,325	3,070	3,460	3,070	3,200		2LG, 2ME, 3ME, 4ME
		30K7			4,425	3,140	3,540	3,140	3,270		2LG, 2ME, 3ME, 4ME
		40K7			4,550	3,230	3,640	3,230	3,370		2LG, 2ME, 3ME, 4ME
		50K7			4,575	3,250	3,660	3,250	3,390		2LG, 2ME, 3ME, 4ME
		57K7			4,575	3,250	3,660	3,250	3,390		2LG, 2ME, 3ME, 4ME

[†] Electrical and lumen data at 25°C (77°F). Actual wattage and lumen output may differ by +/-10% when operating between 120-277V or 347-480V +/-10%

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