

XSPR™ IP66

XSPR™ LED Street/Area Light – Version B

Product Description

In addition to a low initial cost, the XSPR™ LED Street Light 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 simplified mounting solutions, horizontal tenon mount or adjustable arm, that allow for fixture leveling of +/-5°. 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

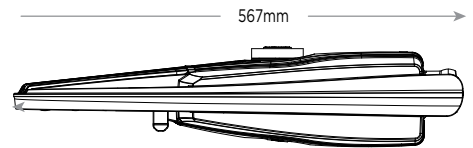
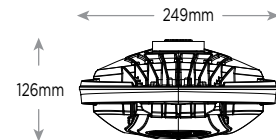
CRI: Minimum 70 CRI; 80 CRI (3000K)

CCT: 3000K, 4000K, 5700K

Limited Warranty*: Class 1 – 10 years on luminaire / 10 years on Colorfast DeltaGuard® finish
Class 2 – 5 years on luminaire / 10 years on Colorfast DeltaGuard® finish

Accessories

For mounting system 07 only	
KIT ADATT. PALO 34MM Adaptor Kit for dia. 34mm poles	KIT ADATT. PALO 48MM Adaptor Kit for dia. 48mm poles
KIT ADATT. PALO 42MM Adaptor Kit for dia. 42mm poles	



Ordering Information											
Example: XSPRBHT210A30K*24SVDIM01											
XSPR	B	HT	210	A	30K	Λ	24	SV	DIM		01
Product	Version	Mounting	Optic	Input Power Designator	CCT	Insulation Class	Voltage	Color Options	Options		Cable length*
XSPR	B	HT Horizontal Tenon 07 Adjustable Mount (60mm)	2LG Type II Long 275 Type II Short 0.75 210 Type II Short 1.0 2SH Type II Short 3SH Type III Short 3ME Type III Medium 4ME Type IV Medium	A 54W B 41W	30K 3000K 40K 4000K 57K 5700K	+ Class 1 Λ Class 2	24 Universal 220-240V	SV Silver	No code DIM	Fixed Output 1-10V Dimming - Control by others (available only with input power A) Q# Field Adjustable Output (available only with input power A) C# Virtual Midnight D# - Field programmable (available only with input power A)	No code Standard (w/o cable)

*w/o connector

* See www.cree.com/lighting/products/warranty for warranty terms

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Product Specifications

CONSTRUCTION & MATERIALS

- Die cast aluminum housing w/ UV stabilized polymeric door for long weathering and reliability
- Mounts on horizontal tenon with O.D. from 32mm to 60mm (minimum 203mm in length)
- With the tenon mount system (07) it can be mounted on an arm or pole top (90°) and tilt adjusted in 5° increments to keep it horizontal with the ground
- Adjustable mounting arm is rugged die cast aluminium and mounts to different outer dimension tenons or poles (with accessory adapters)
- 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:** 220-240V or 50/60Hz
- **Power Factor:** > 0.95 at full load
- **Total Harmonic Distortion:** < 20% at full load
- Integral 10kV surge suppression protection standard (Class 1)
- To address inrush current, slow blow fuse or type C/D breaker should be used

REGULATORY & VOLUNTARY QUALIFICATIONS

- CE Listed
- ENEC pending
- Risk group exempt in accordance with Standard CEI EN 62471 for photobiological safety
- 10kV surge suppression protection tested in accordance with EN 61000-4-5
- Luminaire and finish endurance tested to withstand 5,000 hours of elevated ambient salt fog conditions as defined in ASTM Standard B 117

Electrical Data*		
Input Power Designator	System Watts 220-240V	Total Current
		230V
A	54	0.24
B	41	0.19

* 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 Calculated ³ LMF	100K hr Calculated ³ LMF
5°C (41°F)	A	1.04	0.97	0.91	0.85	0.79
10°C (50°F)	A	1.03	0.96	0.90	0.84	0.79
15°C (59°F)	A	1.02	0.95	0.89	0.83	0.78
20°C (68°F)	A	1.01	0.94	0.88	0.82	0.77
25°C (77°F)	A	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

Weight and Maximum Wind Area	
Weight	Lateral Surface Wind Exposed
5 kg	0.05m ²

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Control options

Field Adjustable Output					
Input Power Designator (A)	System Watts	Lumen Multipliers	Nominal flux (lm)		
			5700K	4000K	3000K
Q9 = Q8	54	1.00	5613	5350	4385
Q7	48	0.94	5276	5029	4122
Q6	42	0.85	4771	4548	3727
Q5	38	0.77	4322	4120	3377
Q4	32	0.68	3817	3638	2982
Q3	27	0.59	3312	3157	2587
Q2	22	0.49	2750	2622	2149
Q1	17	0.35	1965	1873	1535

Virtual Midnight C								
Input Power Designator (A)	System Watts (High Mode)	Nominal flux (lm)			System Watts (Low Mode)	Nominal flux (lm)		
		5700K	4000K	3000K		5700K	4000K	3000K
C1	54	5613	5350	4385	41	4771	4548	3727
C2	54	5613	5350	4385	27	3312	3157	2587
C3	54	5613	5350	4385	18	2024	1929	1581
C4	41	4771	4548	3727	27	3312	3157	2587
C5	41	4771	4548	3727	18	2024	1929	1581
C6	27	3312	3157	2587	18	2024	1929	1581

Virtual Midnight D								
Input Power Designator (A)	System Watts (High Mode)	Nominal flux (lm)			System Watts (Low Mode)	Nominal flux (lm)		
		5700K	4000K	3000K		5700K	4000K	3000K
D1	47	5276	5029	4122	37	4322	4120	3377
D2	47	5276	5029	4122	30	3564	3397	2785
D3	47	5276	5029	4122	18	2024	1929	1581
D4	37	4322	4120	3377	30	3564	3397	2785
D5	37	4322	4120	3377	18	2024	1929	1581
D6	30	3564	3397	2785	18	2024	1929	1581

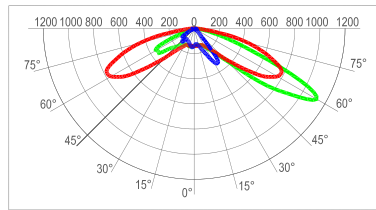
Dynadimmer								
Input Power Designator (B)	System Watts (High Mode)	Nominal flux (lm)			System Watts (Low Mode)	Nominal flux (lm)		
		5700K	4000K	3000K		5700K	4000K	3000K
DY1	41	4321	4118	3375	22	2491	2374	1946
DY2	38	3914	3730	3058	19	2358	2247	1842
DY3	32	3456	3294	2700	16	1925	1835	1504
DY4	27	2999	2858	2343	16	1925	1835	1504
DY5	22	2491	2374	1946	16	1925	1835	1504
DY6	41	4321	4118	3375	32	3456	3294	2700
DY7	41	4321	4118	3375	16	1925	1835	1504
DY8	32	3456	3294	2700	22	2491	2374	1946

XSPR™ LED Street/Area Light – Version B

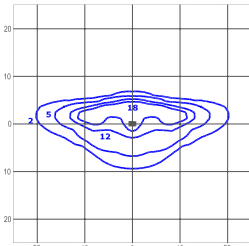
Photometry

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-europe.com>.

2LG - Type II Long



cd/klm
— C0 - C180 — C90 - C270 — C15 - C195



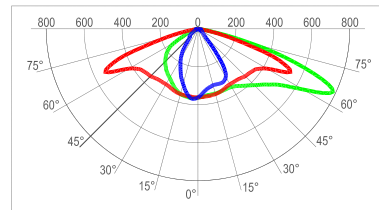
lux
XSPB022LGA40K
Mounting Height: 6m

Lumen Output - 2LG (Type II Long)			
Input Power Designator	5700K	4000K	3000K
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
A	5056	4819	3950
B	3891	3709	3040

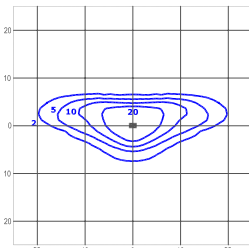
* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -4 and +10% of initial delivered lumens

Test Report #: PL05199-002

275 - Type II Short 0.75



cd/klm
— C0 - C180 — C90 - C270 — C15 - C195



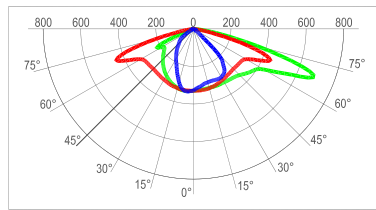
lux
XSPB023MEA40K
Mounting Height: 6m

Lumen Output - 275 (Type II Short 0.75)			
Input Power Designator	5700K	4000K	3000K
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
A	5207	4963	4068
B	4008	3820	3131

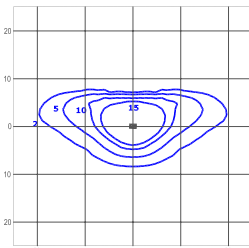
* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -4 and +10% of initial delivered lumens

Test Report #: PL04828-001

210 - Type II Short 1.0



cd/klm
— C0 - C180 — C90 - C270 — C15 - C195



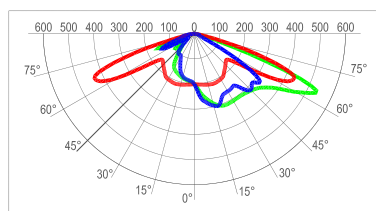
lux
XSPB02210A40K
Mounting Height: 6m

Lumen Output - 210 (Type II Short 1.0)			
Input Power Designator	5700K	4000K	3000K
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
A	5378	5126	4202
B	4139	3945	3234

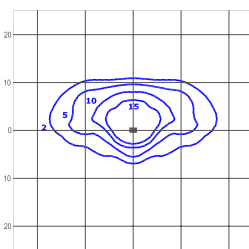
* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -4 and +10% of initial delivered lumens

Test Report #: PL05199-001

2SH - Type II Short



cd/klm
— C0 - C180 — C90 - C270 — C35 - C215



lux
XSPB022SHA40K
Mounting Height: 6m

Lumen Output - 2SH (Type II Short)			
Input Power Designator	5700K	4000K	3000K
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
A	5223	4978	4080
B	4020	3832	3141

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

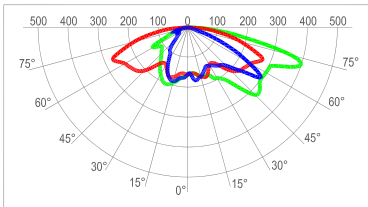
Test Report #: PL05775-001

XSPR™ LED Street/Area Light – Version B

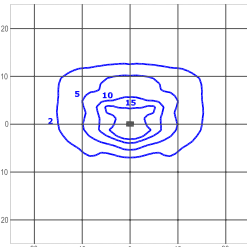
Photometry

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-europe.com>.

3SH - Type III Short



cd/klm
— C0 - C180 — C90 - C270 — C35 - C215



lux

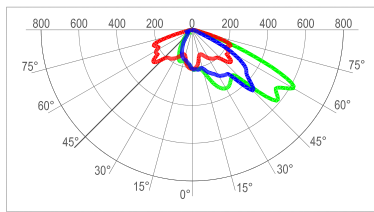
Test Report #: PL05199-003

XSPB023SHA40K
 Mounting Height: 6m

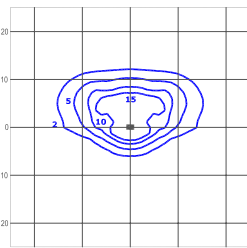
Lumen Output - 3SH (Type III Short)			
Input Power Designator	5700K	4000K	3000K
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
A	4834	4607	3776
B	3721	3546	2907

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

3ME - Type III Medium



cd/klm
— C0 - C180 — C90 - C270 — C45 - C225



lux

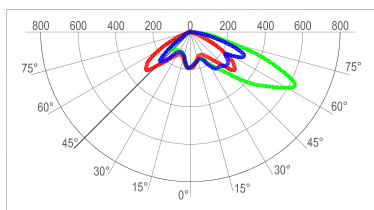
Test Report #: PL04397-001

XSPB023MEA40K
 Mounting Height: 6m

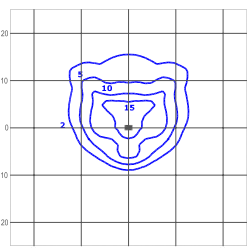
Lumen Output - 3ME (Type III Medium)			
Input Power Designator	5700K	4000K	3000K
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
A	5004	4770	3910
B	3852	3671	3009

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

4ME - Type IV Medium



cd/klm
— C0 - C180 — C90 - C270 — C45 - C225



lux

Test Report #: PL04298-001

XSPB024MEA40K
 Mounting Height: 6m

Lumen Output - 4ME (Type IV Medium)			
Input Power Designator	5700K	4000K	3000K
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
A	4946	4714	3864
B	3807	3629	2974

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