XSPM Series - AEMO Approved*

XSPM - LED Street/Area Luminaire

Advanced LIGHTING TECHNOLOGIES

CREE LIGHTING
A COMPANY OF IDEAL INDUSTRIES, INC.

Product Description

Designed from the ground up as a totally optimized LED street lighting system, XSPM maintains the familiar look of the traditional cobrahead design and delivers substantial energy savings while reducing maintenance time and costs. Equipped with our NanoOptic® Precision Delivery Grid™ optic, XSPM achieves better optical control than traditional street lighting fixtures and efficiently delivers white uniform light for safer-feeling communities. The luminaire is designed to mount directly to 76mm or 60mm outer dimension tenons or poles with a specific spigot (adjustable arm).
Applications: Roadway, parking lots, walkways and general area spaces.

Performance Summary

NanoOptic® Precision Delivery Grid™ optic

Efficacy: Up to 150 lm/W

Initial Colour consistency: 4 MacAdam steps

Limited Warranty: Class 1 — 10 years on luminaire / 10 years on Colorfast DeltaGuard® finish

**NOTE: This spec sheet has been modified to display only variations approved by and listed on the National Electricity Market Load Tables For Unmetered Connection Points, as published by the Australian Energy Market Operator (AEMO). Contact Advanced Lighting Technologies for more information.*

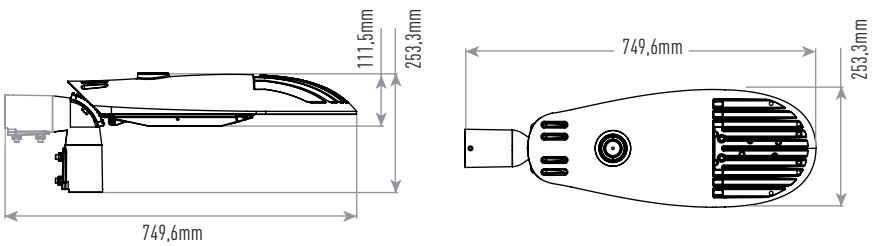
Ordering Information

Eg.: XSPM-E-02-2LG-A-30K-+-24-SV-FX-S-00

XSPM	-	E	-	02	-	2LG	-	A	-	30K	-	+	-	24	-	SV	-	FX	-	S	-	00
Product		**Version**		**Mounting**		**Optic**		**Input Power**		**CCT**		**Insulation Class**		**Voltage**		**Finish**		**Options**		**Variant**		**Cable length**
XSPM	-	E	-	**02** horiz/vert tenon 60mm OD **03** horiz/vert tenon 76mm OD	-	**2LG** Type II long **275** Type II short **210** Type II short **2SH** Type II short **3SH** Type III short **3ME** Type III medium **4ME** Type IV medium	-	**A** 58W	-	**30K** 3000K **40K** 4000K	-	**+** Class 1	-	**24** 220-240V	-	**SV** Silver **BK** Black	-	**FX** Input Power A: **Fixed Input Power**	-	**S** Standard **SF** Standard +Fuse	-	**00** Standard (w/o cable) **01** Exit cable 30cm **03** Exit cable 3m **06** Exit cable 6m **10** Exit cable 10m **12** Exit cable 12m

Accessory Information

ADAPTER
KIT-XSP-AP60-34-G0 Fitter kit to mount to 34mm tenon
KIT-XSP-AP60-42-G0 Fitter kit to mount to 42mm tenon
KIT-XSP-AP60-48-G0 Fitter kit to mount to 48mm tenon



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FEATURES

- Full cut-off optics (NanoOptic® Precision Delivery Grid™)
- Lumen output: 7000lm
- System efficacy: Up to 150lm/W
- CCT: 3000K, 4000K
- CRI Standard min.70, (CRI 80 @3000K on request for MOQ)
- Initial Colour Consistency: 4 MacAdam steps
- Input Voltage: 220-240V
- Driver equipped with over-temperature protection to preserve optimal working conditions
- Power factor: up to > 0.98 at full load
- Lifetime: L90B10 up to 140,000 hours Ta=25°C (according to IEC/EN62717 and IESNA TM-21) calculated on LM80 report at 22,000 hours
- Surge protection: 10kV CM/DM surge immunity according to EN 61000-4-5 and EN 61547 (Class I SPD equipped with LED signal)
- Fuse option available
- Operative temperature: -40°C up to +50°C
- Insulation class: Class I
- Enclosure rated IP66 per IEC 60529
- Impact resistance IK08
- Cable type H07RN-F (Cable length Up to 12mt)
- Control options: Fixed
- Tool-less entry
- Removable tray
- LED Board equipped with integral ESD and Surge protection
- Fixture assembled without the use of glues, totally dismountable and recyclable.

CONSTRUCTION AND MATERIALS

- Die-cast aluminium body with copper content <0.1%, lower door in UV stabilised polymer.
- Luminaire is designed to mount directly to 76mm or 60mm outer dimension tenons or poles and can be tilted +/- 20°, in steps of 5°
- Luminaire fitter 02 can mount to 60mm OD tenons and fitter 03 to 76mm
- 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.

WARRANTY AND CERTIFICATIONS

- Limited Warranty†: Class 1 — 10 years on Colorfast DeltaGuard® finish / 10 years on luminaire
- CE mark / CB mark / ENEC mark / RoHs compliant
- Risk group exempt in accordance with Standard CEI EN 62471 for photobiological safety (Tested IEC/TR62778)
- Luminaire and finish endurance tested to withstand 5,000 hours of elevated ambient salt fog conditions as defined in ASTM Standard B 117
- Compliant to: EN 60598-1; EN 60598-2-3

ELECTRICAL DATA*

Input Power Designator	System Watts 220-240V	Total Current @230V, 50Hz	Power Factor
A	58	0,26 A	0,98

* Electrical data at 25˚C (77˚F)

ELECTRICAL DATA AS PER TESTING FOR AEMO

Input Power Designator	System Watts @ 250V	Total Current @ 250V, 50Hz	Power Factor
A	57.9W	0.24 A	0.96

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
-40˚C	A	1.09	1.05	1.02	0.98	0.95
-20˚C	A	1.07	1.03	1.00	0.96	0.93
0˚C	A	1.05	1.01	0.98	0.94	0.91
15˚C	A	1.02	0.98	0.95	0.91	0.88
25˚C	A	1.00	0.96	0.93	0.89	0.86
40˚C	A	0.98	0.94	0.89	0.84	0.80
50˚C	A	0.86	0.91	0.83	0.76	0.70

[1] Lumen maintence 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] According with TM-21 the projected value can be just up to 6x time the test time

WEIGHT AND MAXIMUM WIND AREA

Weight	Lateral Surface Wind Exposed
7 kg	0.08m^2

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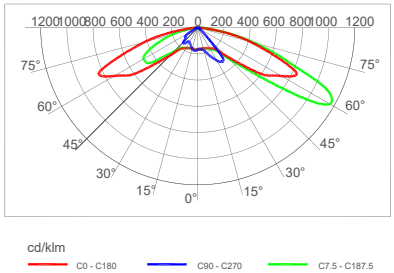
Photometry Symmetric Optics

All published luminaire photometric testing performed by an exsternal laboratory.
To obtain an IES file specific to your project consult: www.creelighitng-europe.com

2LG - Type II Long



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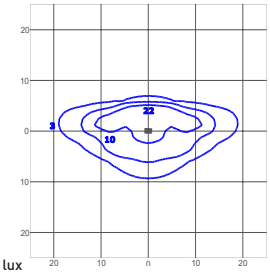


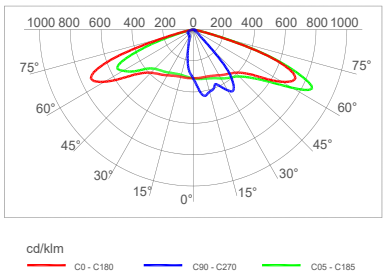
XSPME022LGA40K
Mounting Height: 6m

LUMEN OUTPUT - 2LG (Type II Long)

Input Power Designator	3000K	4000K
	Initial Delivered Lumens*	Initial Delivered Lumens*
A	6505	6848

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

275 - Type II Short 0.75



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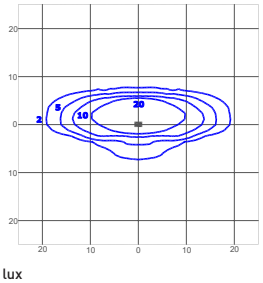


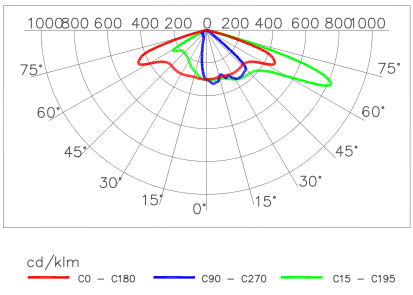
XSPME02275A40K
Mounting Height: 6m

LUMEN OUTPUT - 275 (Type II Short 0.75)

Input Power Designator	3000K	4000K
	Initial Delivered Lumens*	Initial Delivered Lumens*
A	6681	7033

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

210 - Type II Short 1.0



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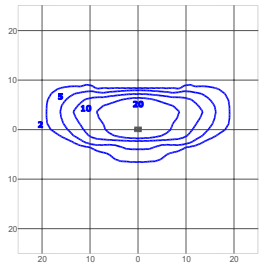


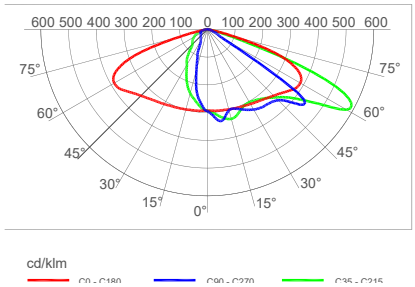
XSPME02210A40K
Mounting Height: 6m

LUMEN OUTPUT - 210 (Type II Short 1.0)

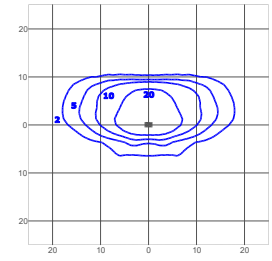
Input Power Designator	3000K	4000K
	Initial Delivered Lumens*	Initial Delivered Lumens*
A	6678	7030

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

2SH - Type II Short



Test Report #:PL112371-011



XSPMA022SHA40K
Mounting Height: 6m

LUMEN OUTPUT - 2SH (Type II Short)

Input Power Designator	3000K	4000K
	Initial Delivered Lumens*	Initial Delivered Lumens*
A	6634	6984

* 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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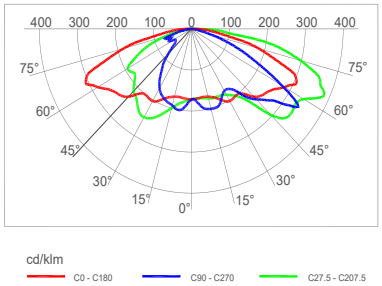
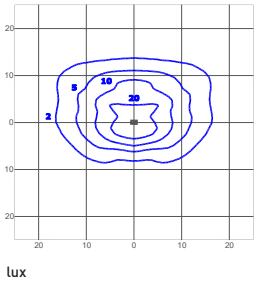
3SH - Type III Short





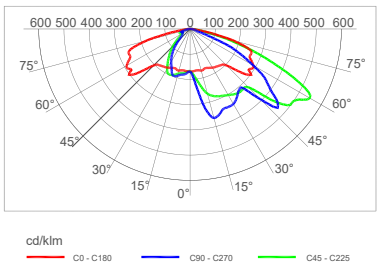
Test Report #: PL112371-012

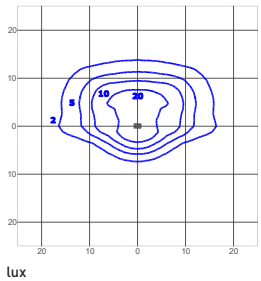
XSPME023SHA40K
Mounting Height: 6m

LUMEN OUTPUT - 3SH (Type III Short)		
Input Power Designator	**3000K** Initial Delivered Lumens*	**4000K** Initial Delivered Lumens*
A	6342	6676

* 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





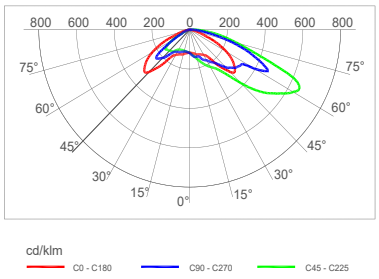
Test Report #: PL11400-013

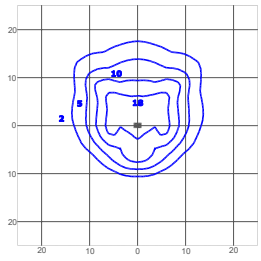
XSPME023MEA40K
Mounting Height: 6m

LUMEN OUTPUT - 3ME (Type III Medium)		
Input Power Designator	**3000K** Initial Delivered Lumens*	**4000K** Initial Delivered Lumens*
A	6560	6960

* 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





Test Report #:PL112371-014

XSPME023SHA40K
Mounting Height: 6m

LUMEN OUTPUT - 4ME (Type IV Medium)		
Input Power Designator	**3000K** Initial Delivered Lumens*	**4000K** Initial Delivered Lumens*
A	6628	6978

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