Cree Syrius

LED Street/Area Luminaire

Advanced LIGHTING TECHNOLOGIES | CREE LIGHTING

Product Description

Cree Syrius is the first street light that utilizes WaveMax® Technology, which will transform how cities will be illuminated. Syrius is the first luminaire with indirect LED lighting with CCT 2700 and efficacy up to 130lm/W, enhanced visual comfort with reduced glare and high color contrast leading to improved overall illumination using less energy. Syrius provides warm, inviting dark sky friendly lighting that makes good economic sense. Syrius is a product approved by International Dark-Sky Association (IDA) for the respect of light pollution and when ordered with 2700K or 3000K CCT (CCT ordering code 27K8, 30K8, or 30K7).

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

Performance Summary

Utilizing WaveMax® Technology

Efficacy: Up to 130 lm/W

Initial Colour consistency: 4 MacAdam steps

Limited Warranty: Class 1 - 10 years on luminaire
Class 2 - 5 years on luminaire

Extended warranty (up to 10 years) available for Class II luminaires on approved projects. Contact ADLTA for further information.

Ordering Information

Variations

Product Name (Short)	LED Version	Mounting	Optic	Power	CCT / CRI	Insulation Class	Input Volts	NEMA based PE cell	Finish colour	Variations	Listed on AEMO
SYS Syrius	**A**	**2** horiz/vert tenon 60mm OD **3** horiz/vert tenon 76mm OD	**210** Type II Short 1.0 **2SH** Type II Short	**A7** 40W **A4** 25W	**278** 2700K 80CRI **307** 3000K 70CRI **308** 3000K 80CRI **407** 4000K 70CRI **408** 4000K 80CRI	**+** Class 1 **^** Class 2	**24** 220-240V	**N** NEMA based PE Cell **Blank** None	**SVS** Silver/Silver **BKB** Black/Black **SVB** Silver/Black **BKS** Black/Silver **WHW** White/White	**DIM** 1-10V Dimmable **DL** DALI Dimmable **Blank** None	**AO** Listed on AEMO
	B										
Code Example: (See breakdown below) *SYSA2210A7308+24NBKBDLAO*											
SYS Syrius	**A** Plug-in	**2** horiz/vert tenon 60mm OD	**210** Type II Short 1.0	**A7** 40W	**308** 3000K 80CRI	**+** Class 1	**24** 220-240V	**N** NEMA based PE Cell	**BKB** Black/Black	**DL** DALI Dimmable	**AO** Listed on AEMO

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.

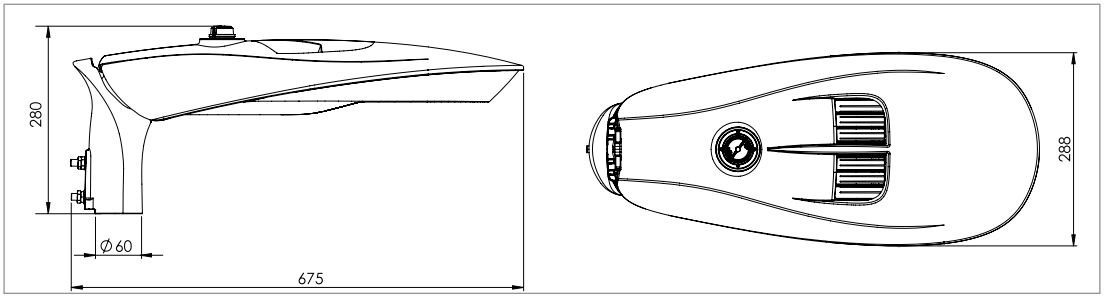
Accessory Information

ADAPTER

KIT-XSP-AP60-34-GO
Fitter kit to mount to 34mm tenon

KIT-XSP-AP60-42-GO
Fitter kit to mount to 42mm tenon

KIT-XSP-AP60-48-GO
Fitter kit to mount to 48mm tenon



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FEATURES

- Utilizing WaveMax® Technology
- Lumen output: 620 – 5000lm
- System efficacy: Up to 130lm/W
- CCT: 2700K@CRI80, 3000K@CRI70, 3000K@CRI80, 4000K@CRI70, 4000K@CRI80
- Initial LED Colour Consistency: 4 MacAdam steps
- Input Voltage: 220-240V 50/60Hz
- Driver equipped with over-temperature protection to preserve optimal working conditions
- Power factor: up to > 0.98 at full load
- Lifetime: L90F10 Up to >205Khrs Ta=25°C (According to IEC/EN62717 and IESNA TM-21)
- 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 – Class II
- Enclosure rated IP66 per IEC 60529
- Impact resistance IK10
- Cable type H07RN-F (Cable length Up to 10mt)
- Control options: DALI, 1-10V Dimming
- Nema socket option available
- Removable tray
- LED Board equipped with integral overvoltage protection.
- Fixture assembled without the use of glues, totally dismountable and recyclable.

CONSTRUCTION AND MATERIALS

- The luminaire is made of LiteStrong, an innovative composite material that allows the recycling of materials up to 98%.
- COOL FLOW, a new innovative System based on an AirFlow management technique.
- Litestrong is corrosion resistant and does not require salt spray testing.
- The die-cast aluminium Tenon with copper content <0.1%, featuring the exclusive Colorfast DeltaGuard finish, an epoxy e-coat with an ultra-resistant powder coated outer surface, which provides excellent resistance to corrosion, ultraviolet deterioration and abrasion.
- The other exposed materials all resistant to corrosion.
- The device is designed to be mounted on a pole or mounting bracket with an outer diameter of 60mm or 76mm, with the possibility of adjustment +/-20°, in 5° increments.
- Fitter 02 for installation on horizontal/vertical supports Ø60mm, fitter 03 Ø76mm.

WARRANTY AND CERTIFICATIONS

- Limited Warranty: Class 1 — 10 years on luminaire
- Limited Warranty: Class 2 — 5 years on luminaire*
- CE mark / CB mark / ENEC mark / RoHs compliant / RCM mark
- Risk group exempt in accordance with Standard CEI EN 62471 for photobiological safety (Tested IEC/TR62778)
- Compliant to: EN 60598-1; EN 60598-2-3

**Extended warranty available for Class II luminaires on approved projects. Contact ADLTA for more information.*

ELECTRICAL DATA*

Input Power Designator	System Watts 220-240V	Total Current @230V, 50Hz	Power Factor
A7	40	0.177A	0.98
A4	25	0.113A	0.95

* Electrical data at 25°C (77°F)

WEIGHT AND MAXIMUM WIND AREA

Weight	Lateral Surface Wind Exposed
6,5 kg	0.058m²

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
25°C	A	1	0,99	0,97	0,96	0,95

[1] Lumen maintence values at 25°C (77°F) are calculated per TM-21 based on LM-80 data and in-sito 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

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FIXED OUTPUT - AOC/ DIMMABLE(1-10V) - DIM					
Setting Code	**System Watts W**	**Nominal flux (lm)**			**Description**
		3000K Ra80	**3000K Ra70**	**4000K Ra70**	
FDL09AA0-0007	40	5539	5789	6330	FIXED/DIMMABLE OUTPUT MAX 40W
FDL09AA0-0004	25	3600	3760	4110	FIXED/DIMMABLE OUTPUT MAX 25W

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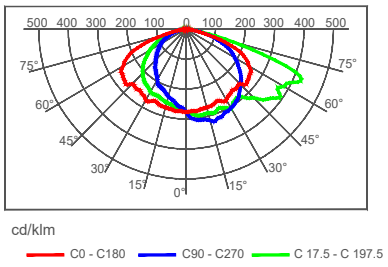
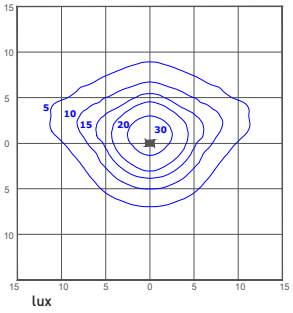
Photometry Symmetric Optics

All published luminaire photometric testing performed according to EN13032 by an external laboratory certified ISO 17025.
To obtain an IES file specific to your project consult: www.creelighting-europe.com

210 - Type II Short 1.0



Test Report #: CREE 126-QL20-S07



SYS-A-02-210-A-407
Mounting Height: 6m

LUMEN OUTPUT - 210 (Type II Short 1.0)			
Input Power Designator	**3000K Ra70** Initial Delivered Lumens*	**3000K Ra80** Initial Delivered Lumens*	**4000K Ra70** Initial Delivered Lumens*
A	4475	4285	4893

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

AS1158.3.1:2020 Table 3.9 Limitation Of Discomfort Glare – Lumen Output - Type 210 (Type II Short 1.0) 4000K					
SUB-CATEGORY	**DGI MAX <6M**	**PASS/FAIL**	**DGI MAX >6M**	**PASS/FAIL**	**DISCOMFORT CLASS**
PA	42,000cd	PASS	50,000cd	PASS	DG1
LATM/CAR PARKS /ROUNDABOUTS	42,000cd	PASS	50,000cd	PASS	DG1
PR/PP	35,000cd	PASS	50,000cd	PASS	DG2

AS1158.3.1:2020 Table 3.8 Limitation Of Luminous Intensity – Lumen Output - Type 210 (Type II Short 1.0) 4000K				
VERTICAL ANGLES	**LUMINAIRE LUMINOUS FLUX**			
	<4000 LM	**PASS/FAIL**	**>4000 LM**	**PASS/FAIL**
ANY ANGLE FROM 80° TO LESS THAN 90°	720 cd absolute	PASS	180 cd/1000lm	PASS
AT 90°	300 cd absolute	PASS	80 cd/1000lm	PASS

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Photometry Symmetric Optics

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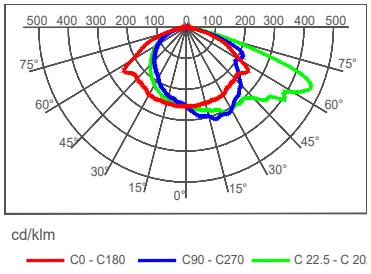
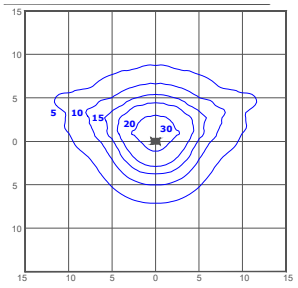
2SH - Type II Short



Test Report #: CREE 126-QL20-S08



SYS-A-02-2SH-A-407
Mounting Height: 6m

LUMEN OUTPUT - 2SH (Type II Short)			
Input Power Designator	**3000K Ra70** Initial Delivered Lumens*	**3000K Ra80** Initial Delivered Lumens*	**4000K Ra70** Initial Delivered Lumens*
A	4357	4173	4845

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

AS1158.3.1:2020 Table 3.9 Limitation Of Discomfort Glare – Lumen Output - Type 2SH (Type II Short) 4000K					
SUB-CATEGORY	**DGI MAX <6M**	**PASS/FAIL**	**DGI MAX >6M**	**PASS/FAIL**	**DISCOMFORT CLASS**
PA	42,000cd	PASS	50,000cd	PASS	DG1
LATM/CAR PARKS /ROUNDABOUTS	42,000cd	PASS	50,000cd	PASS	DG1
PR/PP	35,000cd	PASS	50,000cd	PASS	DG2

AS1158.3.1:2020 Table 3.8 Limitation Of Luminous Intensity – Lumen Output - Type 2SH (Type II Short) 4000K				
VERTICAL ANGLES	**LUMINAIRE LUMINOUS FLUX**			
	<4000 LM	**PASS/FAIL**	**>4000 LM**	**PASS/FAIL**
ANY ANGLE FROM 80° TO LESS THAN 90°	720 cd absolute	PASS	180 cd/1000lm	PASS
AT 90°	300 cd absolute	PASS	80 cd/1000lm	PASS

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