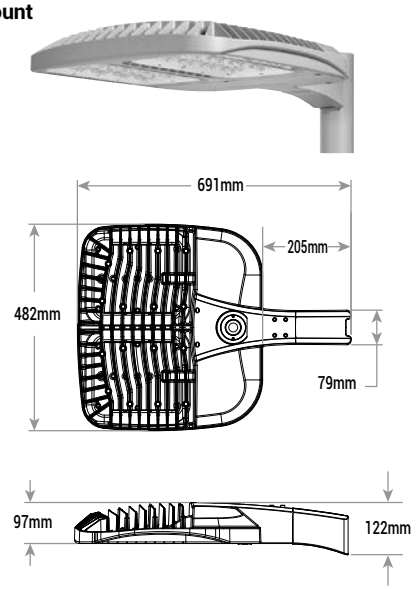
OSQ Series

LED Area Luminaire – Large

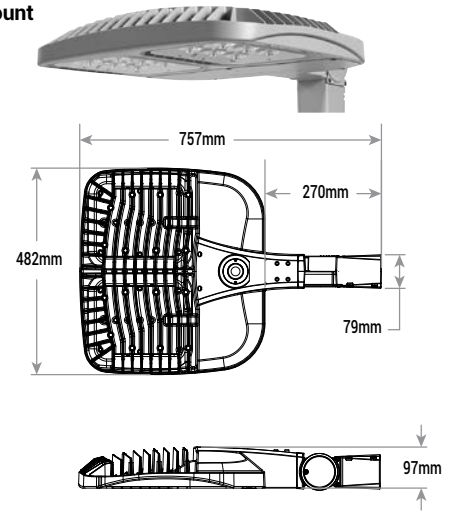
Product Description

The OSQ™ Area luminaire blends extreme optical control, advanced thermal management and modern, clean aesthetics. Built to last, the housing is rugged cast aluminum with an integral, weathertight LED driver compartment. Versatile mounting configurations offer simple installation. Its slim, low-profile design minimizes wind load requirements and blends seamlessly into the site providing even, quality illumination. 'S' Input power designator is a suitable upgrade for HID applications up to 400 Watts
Applications: Parking lots, walkways, campuses, auto dealerships, office complexes, and internal roadways.

DA Mount



AA Mount



Performance Summary

Utilizes BetaLED® Technology
NanoOptic® Precision Delivery Grid™ optic
CRI: Minimum 70 CRI (4000K & 5700K); 80 CRI (3000K)
CCT: 3000K (+/- 300K), 4000K (+/- 300K), 5700K (+/- 500K)
Limited Warranty†: Class 1: 10 years on luminaire and finish Class 2: 5 years on luminaire / 10 years on finish

Accessories

Field-Installed	
Backlight Shield OSQ-BLSLF	OSQ-BLSLR – Rotated optics

Ordering Information

Fully assembled luminaire is composed of two components that must be ordered separately:
Example: **Mount:** OSQ-AA SV + **Luminaire:** OSQ A NM 2ME S 40K-UL SV

Mount (Luminaire must be ordered separately)				
OSQ-				
OSQ-AA Adjustable Arm **OSQ-DA** Direct Arm	**Color Options:**	**SV** Silver **BK** Black	**BZ** Bronze **PB** Silver Bronze	**WH** White

Luminaire (Mount must be ordered separately)									
OSQ	**A**	**NM**	**2ME**	**S**	**30K**	**+**	**UL**	**SV**	**F**
Product	**Version**	**Mounting**	**Optic**	**Input Power Designator**	**CCT**	**–**	**Voltage**	**Color Options**	**Options**
OSQ	**A**	**NM** No Mount	**2ME*** Type II Medium **3ME*** Type III Medium **4ME*** Type IV Medium **5ME** Type V Medium **5SH** Type V Short	**S** 223W	**30K** 3000K **40K** 4000K **57K** 5700K	**+** Class 1 **∧** Class 2	**UL** Universal 220-240V	**SV** Silver **BK** Black **BZ** Bronze **PB** Silver Bronze **WH** White	**DIM 1-10V Dimming** - Control by others - Can't exceed wattage of specified input power designator **Q9 Level factory set** - Power levels from 1 to 8 to be set on field by the installer **RL Rotate Left** - LED and optic are rotated to the left **RR Rotate Right** - LED and optic are rotated to the right **VM Virtual Midnight**

† See www.cree.com/lighting/products/warranty for warranty terms
* Available with Backlight Shield when ordered with field-installed accessory (see table above)

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Rev. Date: 01 March 2016

Product Specifications

CONSTRUCTION & MATERIALS

- Slim, low profile design minimizes wind load requirements
- Luminaire housing is rugged die cast aluminum with an integral, weathertight LED driver compartment and high performance heat sink
- Convenient interlocking mounting method on direct arm mount. Mounting adapter is rugged die cast aluminum and mounts to 76-152mm square or round pole, secured by two 5/16-18 UNC bolts spaced on 51mm centers
- Mounting for the adjustable arm mount adapter is rugged die cast aluminum and mounts to 60mm O.D. tenon
- Adjustable arm mount can be adjusted 180˚ in 2.5˚ increments
- Designed for uplight and downlight applications
- 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, bronze, black, white, and silver bronze are available
- **Weight:** 13kg

ELECTRICAL SYSTEM

- **Input Voltage:** 120-277V or 50/60Hz
- **Power Factor:** > 0.9 at full load
- **Total Harmonic Distortion:** < 20% at full load
- Integral 10kV surge suppression protection standard
- To address inrush current, slow blow fuse or type C/D breaker should be used

REGULATORY & VOLUNTARY QUALIFICATIONS

- CE and ENEC Listed
- Suitable for wet locations
- Enclosure rated IP66 per IEC 60529
- Pending certification to ANSI C136.31-2001, 3G bridge and overpass vibration standards
- 10kV surge suppression protection tested in accordance with IEEE/ANSI C62.41.2 (only for Class 1)
- 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
S	223	0.99

* 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)	S	1.04	0.99	0.94	0.88	0.84
10˚C (50˚F)	S	1.03	0.98	093	0.88	0.83
15˚C (59˚F)	S	1.02	0.97	0.92	0.87	0.83
20˚C (68˚F)	S	1.01	0.96	0.91	0.86	0.82
25˚C (77˚F)	S	1.00	0.95	0.90	0.85	0.81

[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] 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 220-240V	Lateral Surface Wind Exposed
13 kg	0,074 m^2

Field Adjustable Output

Setting*	System Watts 240-240V	Lumen Multipliers
	Input Power Designator S	
9 (Standard)	223	1,00
8	213	0,98
7	202	0,94
6	191	0,91
5	175	0,85
4	160	0,80
3	144	0,73
2	128	0,68
1	112	0,61

* Power levels from 1 to 8 to be set on field by the installer

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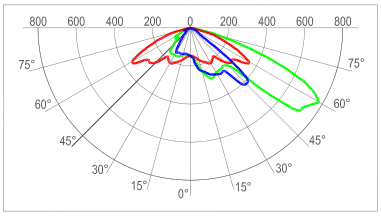
CREE™

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.

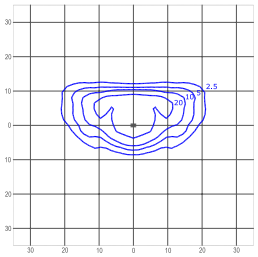
2ME (TM)



cd/klm

C0 - C180 C90 - C270 C50 - C230

Test Report #: PL03347-001

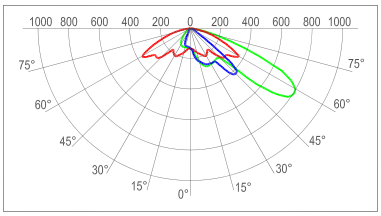


lux

OSQANM2MEA40K
Mounting Height: 8m
Initial Delivered Lumens: 10988

Lumen Output- 2ME Distribution (Type II Medium)			
Input Power Designator	**3000K**	**4000K**	**5700K**
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
S	18.460	21.976	23.298

* 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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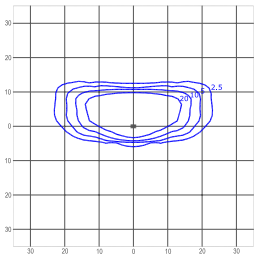
C0 - C180 C90 - C270 C50 - C230

Test Report #: PL03642-003



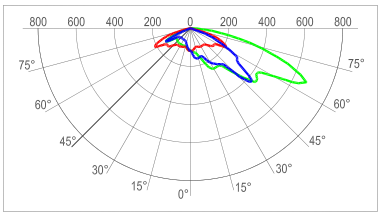
lux

OSQANM2MEJ40K w/BLS
Mounting Height: 8m
Initial Delivered Lumens: 14643

Lumen Output- 2ME Distribution (Type II Medium w/BLS)			
Input Power Designator	**3000K**	**4000K**	**5700K**
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
S	16.400	19.524	20.698

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

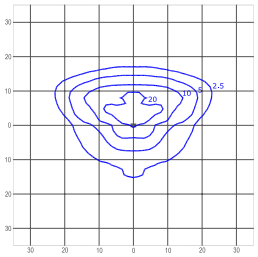
3ME (PR)



cd/klm

C0 - C180 C90 - C270 C30 - C210

Test Report #: PL03495-001

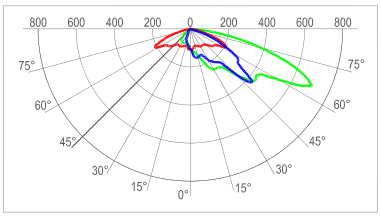


lux

OSQANM3MEA40K
Mounting Height: 6m
Initial Delivered Lumens: 10657

Lumen Output- 3ME Distribution (Type III Medium)			
Input Power Designator	**3000K**	**4000K**	**5700K**
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
S	18.221	21.692	22.997

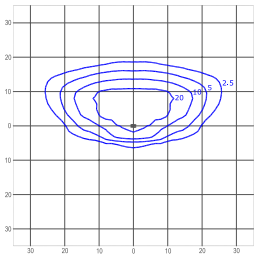
* Initial delivered lumens at 25˚C (77˚F). Actual production yield may vary between -4 and +10% of initial delivered lumens



cd/klm

C0 - C180 C90 - C270 C33 - C213

Test Report #: PL03642-001



lux

OSQANM3MEJ40K w/BLS
Mounting Height: 8m
Initial Delivered Lumens: 14229

Lumen Output- 3ME Distribution (Type III Medium w/BLS)			
Input Power Designator	**3000K**	**4000K**	**5700K**
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
S	15.936	18.972	20.113

* 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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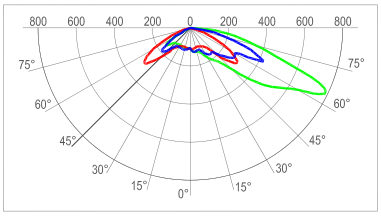
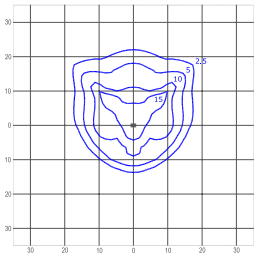
4ME (AC)



cd/klm

C0 - C180 C90 - C270 C50 - C230

Test Report #: PL03346-001

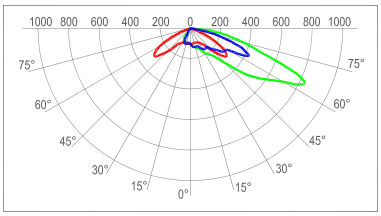


lux

OSQANM4MA40K
Mounting Height: 8m
Initial Delivered Lumens: 10696

Lumen Output- 4ME Distribution (Type IV Medium)			
Input Power Designator	**3000K**	**4000K**	**5700K**
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
S	17.969	21.391	22.678

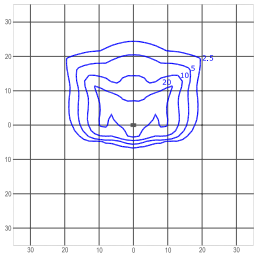
* Initial delivered lumens at 25˚C (77˚F). Actual production yield may vary between -4 and +10% of initial delivered lumens



cd/klm

C0 - C180 C90 - C270 C50 - C230

Test Report #: PL03642-002



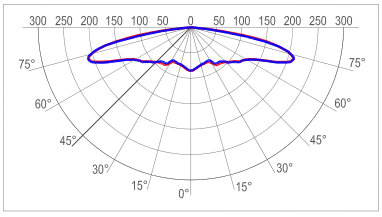
lux

OSQANM4MEJ40K w/BLS
Mounting Height: 8m
Initial Delivered Lumens: 13647

Lumen Output- 4ME Distribution (Type IV Medium w/BLS)			
Input Power Designator	**3000K**	**4000K**	**5700K**
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
S	15.285	18.196	19.291

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

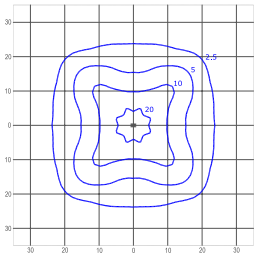
5ME (QVM)



cd/klm

C0 - C180 C90 - C270 C30 - C210

Test Report #: PL03466-001



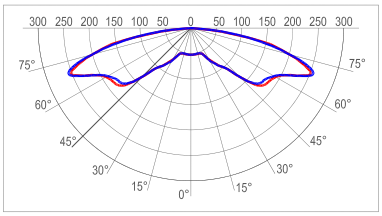
lux

OSQANM5MS40K
Mounting Height: 8m
Initial Delivered Lumens: 20709

Lumen Output- 5ME Distribution (Type V Medium)			
Input Power Designator	**3000K**	**4000K**	**5700K**
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
S	17.422	20.709	20.933

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

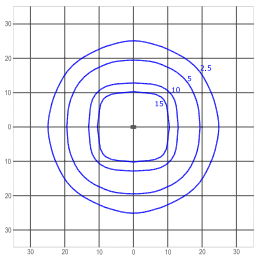
5SH (QVS)



cd/klm

C0 - C180 C90 - C270 C33 - C213

Test Report #: PL03501-001



lux

OSQANM5HS40K
Mounting Height: 8m
Initial Delivered Lumens: 21066

Lumen Output- 5SHME Distribution (Type V Short)			
Input Power Designator	**3000K**	**4000K**	**5700K**
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
S	17.722	21.066	21.294

* 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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