OSQ Series

OSQ™ LED Area/Flood Luminaire – Medium

Product Description

The OSQ[™] Area/Flood 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. The 'B' Input power designator is a suitable upgrade for HID applications up to 250 Watt, and the 'K' Input power designator is a suitable upgrade for HID applications up to 400 Watt.

Applications: Parking lots, walkways, campuses, car dealerships, office complexes, and internal roadways

Performance Summary

NanoOptic[®] Precision Delivery Grid[™] optic

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

Initial Delivered Lumens: Up to 17,291

Efficacy: Up to 136 LPW

CRI: Minimum 70 CRI (4000K & 5700K; 3000K asymmetric optics); 80 CRI (3000K symmetric optics)

CCT: 3000K (+/- 300K), 4000K (+/- 300K), 5700K (+/- 500K)

Limited Warranty⁺: 10 years on luminaire/10 years on Colorfast DeltaGuard[®] finish

*See http://lighting.cree.com/warranty for warranty terms

Accessories

 Field-Installed

 Backlight Shield
 Hand-Held Remote

 OSQ-BLSMF
 XA-SENSREM

 - Front facing optics
 - For successful implementation of the programmable multi-level option, a minimum of one hand-held remote is required

 - Rotated optics
 - Rotated optics

Ordering Information

Fully assembled luminaire is composed of two components that must be ordered separately: Example: **Mount:** 0SQ-AASV + **Luminaire:** 0SQ-A-NM-2ME-B-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 WH White | | |

| Luminai | re (Moun | t must be o | rdered separate | y) | | | | |
|---------|----------|-------------|--|------------------------------|---------------------------------------|--|--|--|
| OSQ | A | NM | | | | | | |
| Product | Version | Mounting | Optic | Input Power Designator | сст | Voltage | Color Options | Options |
| OSQ | A | NM | Asymmetric | В | 30K | UL | вк | DIM 0-10V Dimming PML2 Programmable Multi-Level, 10-30' |
| | | No Mount | 2ME* 4ME* Type III Type IV Medium 3ME* Type III Medium Symmetric 5ME Syme V 25" Type V 25" Medium Flood SSH 400 Type V 40" Short Flood WSN 60D Wide 60" Sign Flood 15" Flood | 86W K 130W | 3000K 40K 4000K 57K 5700K | Universal 120-277V UH Universal 347-480V | Black BZ Bronze SV Silver WH White | Control by others Refer to <u>Dimming spec sheet</u> for details Can't exceed wattage of specified input power designator Can't exceed wattage of specified input power designator Can't exceed wattage of specified input power designator Fuse When code dictates fusing, use time delay fuse When code dictates fusing, use time delay fuse Refer to <u>PML spec sheet</u> for details Available with UL voltage only Intended for downlight applications at 0° tilt Refer to <u>ML spec sheet</u> for details Available with UL voltage only Intended for downlight applications at 0° tilt Refer to <u>PML spec sheet</u> for details Available with UL voltage only Intended for downlight applications at 0° tilt Refer to <u>PML spec sheet</u> for details Available with UL voltage only Intended for downlight applications at 0° tilt Refer to <u>PML spec sheet</u> for details Available with UL voltage only Intended for downlight applications at 0° tilt Reter to <u>PML spec sheet</u> for details Available with UL voltage only Intended for downlight applications at 0° tilt |

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











Rev. Date: V11 09/27/2016

DA Mount

19.0"

(482mm

3.8

(97mm)

Weight

26.5 lbs. (12kg)

– 25.0" – (635mm)

8.1"-

(206mm)

NEMA[®] Photocell Receptacle location

(ordered as an option)

3.1'

(79mm)

4.8"

(122mm)



US: lighting.cree.com/lighting

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 adaptor is rugged die cast aluminum and mounts to 3-6" (76-152mm) square or round pole, secured by two 5/16-18 UNC bolts spaced on 2" (51mm) centers
- Mounting for the adjustable arm mount adaptor is rugged die cast aluminum and mounts to 2" (51mm) IP, 2.375" (60mm) 0.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, and white are available
- Weight: 26.5 lbs. (12kg)

ELECTRICAL SYSTEM

- Input Voltage: 120-277V or 347-480V, 50/60Hz, Class 1 drivers
- 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 current
- 10V Source Current: 0.15mA

REGULATORY & VOLUNTARY QUALIFICATIONS

- cULus Listed
- Suitable for wet locations
- Enclosure rated IP66 per IEC 60529 when ordered without R option
- Consult factory for CE Certified products
- Certified to ANSI C136.31-2001, 3G bridge and overpass vibration standards
- 10kV surge suppression protection tested in accordance with IEEE/ANSI C62.41.2
- Meets FCC Part 15, Subpart B, Class A standards 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
- DLC and DLC Premium qualified versions available. Some exceptions apply. Please refer to www.designlights.org/QPL for most current information
- RoHS compliant. Consult factory for additional details
- Dark Sky Friendly, IDA Approved when ordered with 30K CCT. Please refer to http://darksky.org/fsa/fsa-products/for most current information

| Electrical Data* | | | | | | | | | |
|---------------------------|--------------------------|-----------|-------------------|------|------|------|------|--|--|
| | | Total Cur | Total Current (A) | | | | | | |
| Input Power Designator | System Watts 120-480V | 120V | 208V | 240V | 277V | 347V | 480V | | |
| в | 86 | 0.73 | 0.43 | 0.37 | 0.32 | 0.25 | 0.19 | | |
| к | 130 | 1.09 | 0.65 | 0.56 | 0.49 | 0.38 | 0.28 | | |

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

Recommended OSQ Series Lumen Maintenance Factors (LMF)¹

| Ambient | Optic | Initial LMF | 25K hr Projected ² LMF | 50K hr Projected² LMF | 75K hr Projected² LMF | 100K hr Calculated ³ LMF |
|-------------|------------|----------------|---|-----------------------------|-----------------------------|---|
| | Asymmetric | 1.04 | 0.99 | 0.93 | 0.89 | 0.84 |
| 5°C (41°F) | Symmetric | 1.05 | 1.00 | 0.96 ³ | 0.92 ³ | 0.88 ³ |
| 10°C | Asymmetric | 1.03 | 0.98 | 0.93 | 0.88 | 0.83 |
| (50°F) Symm | Symmetric | 1.04 | 0.99 | 0.95 ³ | 0.91 ³ | 0.87 ³ |
| 15°C | Asymmetric | 1.02 | 0.97 | 0.92 | 0.87 | 0.82 |
| (59°F) | Symmetric | 1.02 | 0.98 | 0.94 ³ | 0.90 ³ | 0.87 ³ |
| 20°C | Asymmetric | 1.01 | 0.96 | 0.91 | 0.86 | 0.82 |
| (68°F) | Symmetric | 1.01 | 0.96 | 0.92 ³ | 0.88 ³ | 0.85 ³ |
| 25°C | Asymmetric | 1.00 | 0.95 | 0.90 | 0.85 | 0.81 |
| (77°F) | Symmetric | 1.00 | 0.95 | 0.91 ³ | 0.88 ³ | 0.84 ³ |

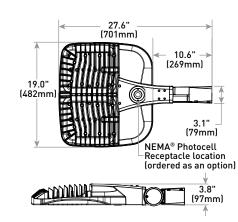
¹Lumen maintenance values at 25°C (77°F) are calculated per TM-21 based on LM-80 data and in-situ luminaire testing ²In accordance with IESNA TM-21-11, Projected Values represent interpolated value based on time durations that are within six times (6X) the IESNA LM-80-08 total test duration (in hours) for the device under testing ([DUT] i.e. the packaged LED chip) ³In accordance with IESNA TM-21-11, Calculated Values represent time durations that exceed six times (6X) the IESNA

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)

AA Mount

- FLAT

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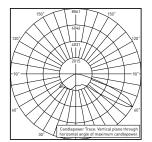




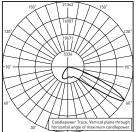


All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP accredited laboratory. To obtain an IES file specific to your project consult: http://lighting.cree.com/products/outdoor/area/osq-series

2ME

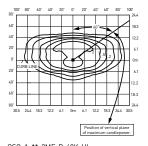


RESTL Test Report #: PL08877-001 0SQ-A-*-2MF-B-30K-UI Initial Delivered Lumens: 10,381

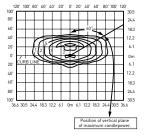


CESTL Test Report #: PL07700-001A 0S0-A-**-2ME-U-57K-UL w/0S0-BLSLE Initial Delivered Lumens: 22,822

3ME



OSQ-A-**-2ME-B-40K-UL Mounting Height: 25' (7.6m) A.F.G. Initial Delivered Lumens: 11,424 Initial FC at grade



0SQ-A-**-2ME-B-40K-UL w/0SQ-BLSMF Mounting Height: 25' (7.6m) A.F.G. Initial Delivered Lumens: 8,779 Initial FC at grade

| Type II Medium Distribution | | | | | | | | |
|------------------------------|---------------------------------|--------------------------------------|---------------------------------|--------------------------------------|---------------------------------|--------------------------------------|--|--|
| | 3000K | | 4000K | | 5700K | | | |
| Input Power Designator | 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 | | |
| В | 10,738 | B2 U0 G2 | 11,424 | B2 U0 G2 | 11,648 | B2 U0 G2 | | |
| к | 16,022 | B3 U0 G3 | 16,959 | B3 U0 G3 | 17,291 | B3 U0 G3 | | |

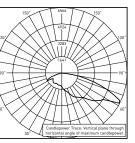
* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: www.ies.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf. Valid with no tilt

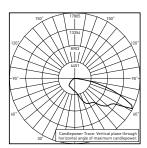
Type II Medium w/BLS Distribution 3000K 4000K 5700K Input BUG BUG BUG Initial Initial Initial Power Ratings* Ratings Ratings' Delivered Delivered Delivered Designator Per TM Per TM Per TM Lumens* Lumens* Lumens' 15 11 15 11 15 11 R 8 251 B2 U0 G2 8 7 7 9 B2 U0 G2 8 950 B2 U0 G2 Κ 12,312 B2 U0 G2 13,032 B2 U0 G2 13,286 B2 U0 G2

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

umens ** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: www.ies.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf. Valid with no tilt



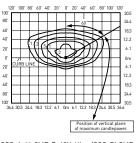
RESTL Test Report #: PL08876-001A OSQ-A--3ME-B-30K-UL Initial Delivered Lumens: 10.421



CESTL Test Report #: PL07699-001A OSQ-A-**-3ME-U-57K-UL w/OSQ-BLSLF Initial Delivered Lumens: 23.601

| 120' 10 | r 80. 60. | 40' 20' | 0' 20' 40 | r 60° 8 | 0.100.1 | 20" 30.5 |
|----------------------|-----------|------------|------------|----------------|------------------------|-------------|
| 80' | | | - 60 | | | 24,4 |
| 60. | | F | | 2 | | 18.3 |
| 40' | 666 | 2 | | X | N - | 12.2 |
| 20' | 111 | ݱ┢╴ | F\$ | ЧН. | / 1 | 6.1 |
| 0 | -11, | 44 | 1 | 747 | | 0m |
| 20 ⁻ CURE | | | ¥1 | \mathcal{N} | | 6.1 |
| 40' | | ₩ | \square | 4 | | 12.2 |
| 60' | | | Ľľ | _ | | 18.3 |
| 80' | | + | | _ | | 24.4 |
| 100 | | | | | | 30.5 |
| 36.6 30.5 | 24.4 18.3 | 12.2 6.1 (|)m 6.1 12. | 2 18.3 2 | 4.4 30.5 3 | 36.6 |
| | | | | | ertical pl candlepc | |

OSQ-A-**-3ME-B-40K-UL Mounting Height: 25' (7.6m) A.F.G. Initial Delivered Lumens: 11,424 Initial FC at grade



OSQ-A-**-3ME-B-40K-UL w/OSQ-BLSMF Mounting Height: 25' (7.6m) A.F.G. Initial Delivered Lumens: 9,019 Initial FC at grade

Type III Medium Distribution

| | 3000K | | 4000K | | 5700K | |
|------------------------------|---------------------------------|-------------------------------------|---------------------------------|-------------------------------------|---------------------------------|-------------------------------------|
| Input Power Designator | 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 |
| В | 10,738 | B3 U0 G3 | 11,424 | B3 U0 G3 | 11,648 | B3 U0 G3 |
| к | 16,022 | B3 U0 G3 | 16,959 | B3 U0 G3 | 17,291 | B3 U0 G3 |

* 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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| Type III Medium w/BLS Distribution | | | | | | | | | |
|------------------------------------|---------------------------------|--------------------------------------|---------------------------------|--------------------------------------|---------------------------------|--------------------------------------|--|--|--|
| | 3000K | | 4000K | | 5700K | | | | |
| Input Power Designator | 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 | | | |
| В | 8,477 | B1 U0 G2 | 9,019 | B1 U0 G2 | 9,196 | B1 U0 G2 | | | |
| к | 12,649 | B2 U0 G2 | 13,389 | B2 U0 G2 | 13,650 | B2 U0 G2 | | | |

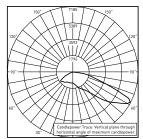
* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

umens * For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: www.ies.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf. Valid with no tilt

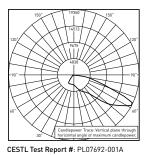


All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP accredited laboratory. To obtain an IES file specific to your project consult: http://lighting.cree.com/products/outdoor/area/osq-series

4ME

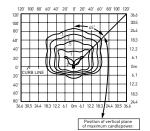


RESTL Test Report #: PL08878-001A OSQ-A-**-4ME-B-30K-UL Initial Delivered Lumens: 10,230



30.5 24.A 18.3 6.1 0n 6.1 18.3 24

OSQ-A-**-4ME-B-40K-UL Mounting Height: 25' (7.6m) A.F.G. Initial Delivered Lumens: 11,424 Initial FC at grade



0SQ-A-**-4ME-B-40K-UL w/0SQ-BLSMF Mounting Height: 25' (7.6m) A.F.G. Initial Delivered Lumens: 8,779

> 26.6 18.3

> 12.2

0m 6.1

12.2

18.3 24.4

122 183 Pos

Initial FC at grade

40

20

20

40 60

| Type IV Medium Distribution | | | | | | | | | |
|------------------------------|---------------------------------|--------------------------------------|---------------------------------|--------------------------------------|---------------------------------|--------------------------------------|--|--|--|
| | 3000K | | 4000K | 1000K | | | | | |
| Input Power Designator | 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 | | | |
| в | 10,738 | B2 U0 G2 | 11,424 | B2 U0 G2 | 11,648 | B2 U0 G2 | | | |
| к | 16,022 | B3 U0 G3 | 16,959 | B3 U0 G3 | 17,291 | B3 U0 G3 | | | |

* 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: www.ies.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf. Valid with no tiltt

| Type IV Medium w/BLS Distribution | | | | | | | | |
|-----------------------------------|---------------------------------|-------------------------------------|---------------------------------|-------------------------------------|---------------------------------|-------------------------------------|--|--|
| | 3000K | | 4000K | 4000K | | | | |
| Input Power Designator | 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 | | |
| В | 8,251 | B1 U0 G2 | 8,779 | B1 U0 G2 | 8,950 | B1 U0 G2 | | |
| к | 12,312 | B2 U0 G2 | 13,032 | B2 U0 G2 | 13,286 | 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: www.ies.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf. Valid with no tilt

| Type V Medium Distribution | | | | | | | | | |
|------------------------------|---------------------------------|--------------------------------------|---------------------------------|--------------------------------------|---------------------------------|--------------------------------------|--|--|--|
| | 3000K | | 4000K | 4000K | | | | | |
| Input Power Designator | 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 | | | |
| В | 9,387 | B3 U0 G3 | 10,867 | B4 U0 G4 | 11,056 | B4 U0 G4 | | | |
| к | 13,819 | B4 U0 G4 | 15,999 | B4 U0 G5 | 16,277 | B4 U0 G5 | | | |

Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
 ** Enc more information on the LES BLIG (Backlight-Initiat-Gland Pating visit).

* For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit:

www.ies.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf. Valid with no tilt

| .,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | t Distributio | | | | | |
|---|---------------------------------|---|---------------------------------|-------------------------------------|---------------------------------|-------------------------------------|
| | 3000K | | 4000K | | 5700K | |
| Input Power Designator | 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 |
| В | 9,914 | B4 U0 G3 | 11,478 | B4 U0 G3 | 11,678 | B4 U0 G3 |
| к | 14,595 | B4 U0 G3 | 16,897 | B4 U0 G3 | 17,191 | B4 U0 G3 |

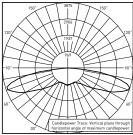
* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens ** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit:

www.ies.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf. Valid with no tilt



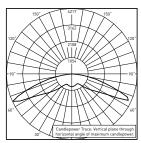






CESTL Test Report #: PL08101-001C OSQ-A-**-5ME-B-30K-UL Initial Delivered Lumens: 9,304





CESTL Test Report #: PL08102-001B OSQ-A-**-5SH-B-30K-UL Initial Delivered Lumens: 9.935

| | 80' 60' 40' 20 | 0' 20' 40 | 60' 80' 100 | 1201 |
|------------|------------------------|-----------------|------------------|------|
| 100' | | | • | 30. |
| 80' | H | | \times | 24. |
| 60' | | | \rightarrow | 18. |
| 40' | | $+ \rightarrow$ | YY | 12. |
| 20' | (| | 111 | 6. |
| 0. | | | / 11111 | Or |
| 20. CURB L | INE | Ψ | 117171 | 6. |
| | | φ | | |
| 40' | $\mathbb{N}\mathbb{N}$ | | | 12. |
| 60' | | | 7 | 18 |
| 80' | + N | J | + | 24. |
| 100' | 44 183 12.2 6.1 | 0m 6.1 12.2 | 18.3 24.4 30. | 30 |

0SQ-A-**-5ME-B-40K-UL

Initial FC at grade

Mounting Height: 25' (7.6m) A.F.G. Initial Delivered Lumens: 10,867

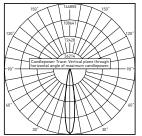
OSQ-A-**-5SH-B-40K-UL Mounting Height: 25' (7.6m) A.F.G. Initial Delivered Lumens: 11,478 Initial FC at grade

All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP accredited laboratory. To obtain an IES file specific to your project consult: http://lighting.cree.com/products/outdoor/area/osq-series

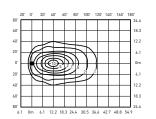
15D

25D

40D



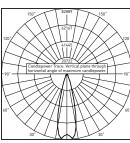
CESTL Test Report #: PL07689-001A OSQ-A-**-15D-U-30K-UL Initial Delivered Lumens: 23,254



OSQ-A-**-15D-B-40K-UL Mounting Height: 25' (7.6m) A.F.G., 60° Tilt Initial Delivered Lumens: 11,478 Initial FC at grade

| 15° Flood Distribution | | | | | | |
|------------------------------|---------------------------------|---------------------------------|---------------------------------|--|--|--|
| | 3000K | 4000K | 5700K | | | |
| Input Power Designator | Initial Delivered Lumens* | Initial Delivered Lumens* | Initial Delivered Lumens* | | | |
| В | 9,914 | 11,478 | 11,678 | | | |
| к | 14,595 | 16,897 | 17,191 | | | |

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



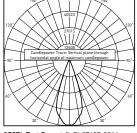
CESTL Test Report #: PL07687-001A OSQ-A-**-25D-U-30K-UL

| 20 [.] | 0' 2 | 0'41 |) [,] 6 | 0' 8 | 0' 10 | 00' 1 | 20' 1 | i0' 1 | 60' 1 | 80° 24.4 |
|--|---------------|------|------------------|--------|-------|-------|-------|-------|-------|-------------|
| 60' | + | | | | | | | | | 18.3 |
| 40' | \vdash | - | \sim | | | _ | | | _ | 12.2 |
| 20' | Kz | | | | K | X | | | - | 6.1 |
| 0. | KC. | (|) |)) |) | | | | | 0m |
| 20' | $\not\models$ | | | \leq | | P | | | | 6.1 |
| 40' | + | | | | | | | | | 12.2 |
| 60' | | | | | | | | | | 18.3 |
| 6.1 0m 6.1 12.2 18.3 24.4 30.5 36.6 42.7 48.8 54.9 | | | | | | | | | | |

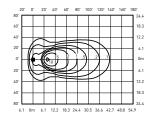
OSQ-A-**-25D-B-40K-UL Mounting Height: 25' (7.6m) A.F.G., 60° Tilt Initial Delivered Lumens: 11,478 Initial FC at grade

| 25° Flood Distribution | | | | | | |
|------------------------------|---------------------------------|---------------------------------|---------------------------------|--|--|--|
| | 3000K | 4000K | 5700K | | | |
| Input Power Designator | Initial Delivered Lumens* | Initial Delivered Lumens* | Initial Delivered Lumens* | | | |
| В | 9,914 | 11,478 | 11,678 | | | |
| к | 14,595 | 16,897 | 17,191 | | | |

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



CESTL Test Report #: PL07697-001A OSQ-A-**-40D-U-30K-UL Initial Delivered Lumens: 22,943



OSQ-A-**-40D-B-40K-UL Mounting Height: 25' (7.6m) A.F.G., 60° Tilt Initial Delivered Lumens: 11,478 Initial FC at grade

| 40° Flood Distribution | | | | | | |
|------------------------------|---------------------------------|---------------------------------|---------------------------------|--|--|--|
| | 3000K | 4000K | 5700K | | | |
| Input Power Designator | Initial Delivered Lumens* | Initial Delivered Lumens* | Initial Delivered Lumens* | | | |
| в | 9,914 | 11,478 | 11,678 | | | |
| к | 14,595 | 16,897 | 17,191 | | | |

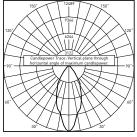
* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens



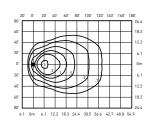
Initial Delivered Lumens: 23,265

All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP accredited laboratory. To obtain an IES file specific to your project consult: http://lighting.cree.com/products/outdoor/area/osq-series

60D



CESTL Test Report #: PL08100-001B OSQ-A-**-60D-B-30K-UL Initial Delivered Lumens: 10,079

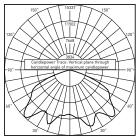


OSQ-A-**-60D-B-40K-UL Mounting Height: 25' (7.6m) A.F.G., 60° Tilt Initial Delivered Lumens: 11,478 Initial FC at grade

| 60° Flood Distribution | | | | | | |
|------------------------------|---------------------------------|---------------------------------|---------------------------------|--|--|--|
| Input Power Designator | 3000K | 4000K | 5700K | | | |
| | Initial Delivered Lumens* | Initial Delivered Lumens* | Initial Delivered Lumens* | | | |
| В | 9,914 | 11,478 | 11,678 | | | |
| К | 14,595 | 16,897 | 17,191 | | | |

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

WSN



CESTL Test Report #: PL07695-001A OSQ-A-**-WSN-U-30K-UL Initial Delivered Lumens: 23,116

| 4 120' | 0°2 | σc | r 20 |)° 44 | D' 6 | 0'8 | 0' 10 | 00 13 | 20" 14 | 40" 18 | 0' 18 | 10' 36.6 |
|-----------|-----|----------|----------------|-------|------------------|-----|---------------|-------|--------|--------|-------|-------------|
| 120 | | | | | | | | | | | | 30.5 |
| | | | | / | - | | | | | | | |
| 80' | | | | 5 | | | Υ | | | | - | 24.4 |
| 60' | - | - | ₩ | - | _ | H | \rightarrow | _ | - | | _ | 18.3 |
| 40' | | | 4 | | V- | | | 1_ | | | | 12.2 |
| 20" | | // | 17 | ſ١ | $\left(\right)$ | | | 1 | | | | 6.1 |
| | | | Π | | Ι. | | | Γ | | | | |
| 0' | | 111 | 12 | - | 1 | - | | | | | | 0m |
| 20' | - | +# | H | | μ. | - | - | | - | | - | 6.1 |
| 40' | | N N | T | Ľ | .5/ | | / | 1 | | | | 12.2 |
| 60" | | <u>۱</u> | ٧, | | P. | .2/ | .1, | 1 | | | | 18.3 |
| | | | \overline{D} | | | 7 | 7 | | | | | |
| 80' | | - | | Ē | - | | / | - | - | | - | 24.4 |
| 100' | | - | | | \sim | F | | _ | | | _ | 30.5 |
| 120' | | | | | | | | | | | | 36.6 |

122 41 0m 41 122 183 244 305 366 427 488 559 OSQ-A-**-WSN-B-40K-UL Mounting Height: 25' (7.6m) A.F.G., 60° Tilt Initial Delivered Lumens: 11,478 Initial FC at grade

| Wide Sign Distribution | | | | | | |
|------------------------------|---------------------------------|---------------------------------|---------------------------------|--|--|--|
| | 3000K | 4000K | 5700K | | | |
| Input Power Designator | Initial Delivered Lumens* | Initial Delivered Lumens* | Initial Delivered Lumens* | | | |
| В | 9,914 | 11,478 | 11,678 | | | |
| к | 14,595 | 16,897 | 17,191 | | | |

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



OSQ™ LED Area/Flood Luminaire – Medium

Luminaire EPA

| Fixed Arm Mount – OSQ-DA | | | | | |
|--------------------------|----------|----------|---------|----------|---------|
| Single | 2 @ 180° | 2 @ 90° | 3 @ 90° | 3 @ 120° | 4 @ 90° |
| •- | ∎≁∎ | ,-∎ ∎ | | ** | |
| 0.74 | 1.48 | 1.19 | 1.93 | 1.63 | 2.38 |

| Adjustable Arm Mo | ount - OSQ-AA Weight | 26.5 lbs. (12kg) | | | | | |
|----------------------------|--|---------------------------------|---------------------------------|-------------------|--------------------|-------------|-------------------------------------|
| Single | 2 @ 180° | 2 @ 90° | 3 @ 90° | 3 @ 120° | 3 @ 180° | 4 @ 180° | 4 @ 90° |
| Tenon Configuration | on (0°-80° Tilt); If used v | vith Cree tenons, please a | add tenon EPA with Lumir | aire EPA | | | |
| PB-1A*; PT-1; PW- | PB-2A*; PB-2R2.375; PD-2A4(180); | PB-2A*; PD-2A4(90); | PB-3A*; PD-3A4(90); | PB-3A*; PT-3(120) | PB-3A*; PB-3R2.375 | PB-4A*(180) | PB-4A*(90); |
| 1A3** | PT-2(180); PW-2A3** | PB-24 ; PD-244(70); PT-2(90) | PB-3A'; PD-3A4(70); PT-3(90) | FB-3A"; F1-3(120) | PB-3A ; PB-3R2.373 | PB-4A (160) | PB-4R2.375; PD-4A4(90); PT-4(90) |
| 0° Tilt | _ | | | | 1 | 1 | 1 |
| 0.74 | 1.48 | 1.19 | 1.93 | 1.63 | 3.33 | 4.66 | 2.38 |
| 10° Tilt | | | | | | | |
| 0.75 | 1.48 | 1.49 | 2.23 | 2.15 | 4.22 | 5.84 | 2.98 |
| 20° Tilt | | | | | | | |
| 1.12 | 1.48 | 1.86 | 2.60 | 2.85 | 5.31 | 7.32 | 3.72 |
| 30° Tilt | | | | | | | |
| 1.46 | 1.48 | 2.20 | 2.94 | 3.56 | 6.34 | 8.68 | 4.40 |
| 45° Tilt | | | | | | | |
| 1.96 | 1.96 | 2.69 | 3.43 | 4.54 | 7.83 | 10.68 | 5.38 |
| 60° Tilt | | | | | | | |
| 2.33 | 2.33 | 3.07 | 3.81 | 5.11 | 8.94 | 12.16 | 6.14 |
| 70° Tilt | | | | | | | |
| 2.49 | 2.49 | 3.23 | 3.97 | 5.11 | 9.43 | 12.80 | 6.46 |
| 80° Tilt | | | | | | | |
| 2.58 | 2.58 | 3.32 | 4.06 | 5.11 | 9.71 | 13.16 | 6.64 |
| Tenon Configuration | on (90° Tilt); If used with | Cree tenons, please add | tenon EPA with Luminaire | e EPA | | | |
| PB-1A*; PT-1; PW- 1A3** | PB-2A*; PB-2R2.375; PD-2A4(180); PT-2(180); PW-2A3** | PB-2A* | PB-3A* | PB-3A*; PT-3(120) | PB-3A*; PB-3R2.375 | PB-4A*(180) | PB-4A*(90); PB-4R2.375 |
| 90° Tilt | | | | | | | |
| 2.61 | 2.61 | 4.44 | 6.05 | 5.11 | 9.79 | 13.28 | 10.39 |
| | | | | | | | |

* 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
** These EPA values must be multiplied by the following ratio: Fixture Mounting Height/Total Pole Height. Specify pole size: 3 (3"), 4 (4"), 5 (5"), or 6 (6")



OSQ[™] LED Area/Flood Luminaire – Medium

Tenon EPA

| Part Number | EPA |
|------------------|------|
| PB-1A* | None |
| PB-2A* | 0.82 |
| PB-3A* | 1.52 |
| PB-4A*(180) | 2.22 |
| PB-4A*(90) | 1.11 |
| PB-2R2.375 | 0.92 |
| PB-3R2.375 | 1.62 |
| PB-4R2.375 | 2.32 |
| PD Series Tenons | 0.09 |
| PT Series Tenons | 0.10 |
| PW-1A3** | 0.47 |
| PW-2A3** | 0.94 |
| WM-2 | 0.08 |
| WM-4 | 0.25 |
| WM-DM | None |

Tenons and Brackets[‡] (must specify color)

| Tenons and Drackets' (must specify color) | | | | | | | |
|--|--|---|--|--|--|--|--|
| Square Internal Mount Vertical Tenons (Steel) - Mounts to 3-6" (76-152mm) square aluminum or steel poles | | Round External Mount Vertical Tenons (Steel) - Mounts to 2.375" (60mm) O.D. round aluminum or steel poles or tenons | | | | | |
| PB-1A* – Single PB-2A* – 180° Twin | PB-4A*(90) – 90° Quad PB-4A*(180) – 180° Quad | PB-2R2.375 – Twin PB-3R2.375 – Triple | PB-4R2.375 – Quad | | | | |
| PB-3A* – 180° Triple Square Internal Mount Horizontal Tenons (Aluminum) - Mounts to 4" (102mm) square aluminum or steel poles D-2A4(90) – 90° Triple PD-3A4(90) – 90° Triple | | Round External Mount Horizontal Tenons (Aluminum) - Mounts to 2.375" (60mm) 0.D. round aluminum or steel poles or tenons - Mounts to square pole with PB-1A* tenon | | | | | |
| PD-2A4(180) – 180° Twin Wall Mount Brackets - Mounts to wall or roof | | PT-1 – Single (Vertical) PT-2(90) – 90° Twin PT-2(180) – 180° Twin | PT-3(90) – 90° Triple PT-4(90) – 90° Quad | | | | |
| WM-2 – Horizontal for OSQ-AA mount | | Mid-Pole Bracket | | | | | |

WM WM-2 – ToTzonat for OSQ-AA mount WM-4 – L-Shape for OSQ-AA mount WM-DM – Plate for OSQ-DA mount

- Mounts to square pole PW-1A3** – Single PW-2A3** - Double

Ground Mount Post

- For ground mounted flood luminaires PGM-1 - for OSQ-AA mount

[‡] Refer to the <u>Bracket and Tenons spec sheet</u> 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 * These EPA values must be multiplied by the following ratio: Fixture Mounting Height/Total Pole Height. Specify pole size: 3 (3"), 4 (4"), 5 (5"), or 6 (6")

Direct Mount Configurations

| Compatibility with OSQ-DA Direct Mount Bracket | | | | | | | | |
|--|---------|----------|---------|----------|---------|--|--|--|
| Input Power Designator | 2 @ 90° | 2 @ 180° | 3 @ 90° | 3 @ 120° | 4 @ 90° | | | |
| 3" Square | | | | | | | | |
| В&К | N/A | ✓ | N/A | N/A | N/A | | | |
| 3" Round | | | | | | | | |
| B & K | N/A | ✓ | N/A | N/A | N/A | | | |
| 4" Square | | | | | | | | |
| В&К | ✓ | ✓ | ✓ | N/A | ✓ | | | |
| 4" Round | | | | | | | | |
| B & K | × | ✓ | ✓ | ✓ | ✓ | | | |
| 5" Square | | | | | | | | |
| В&К | ✓ | ✓ | ✓ | N/A | ✓ | | | |
| 5" Round | | | | | | | | |
| В&К | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| 6" Square | | | | | | | | |
| В&К | ✓ | ✓ | ✓ | N/A | ✓ | | | |
| 6" Round | | | | | | | | |
| B & K | ✓ | ✓ | ✓ | ✓ | ✓ | | | |

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