

OSQ Series

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. 'A' Input power designator is a suitable upgrade for HID applications up to 250 Watt. 'J' 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

Utilizes BetaLED® Technology

NanoOptic® Precision Delivery Grid™ optic

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

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

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

Limited Warranty*: 10 years on luminaire/10 years on Colorfast DeltaGuard® finish

Accessories

| Field-Installed | |
|--|----------------------------|
| Backlight Shield OSQ-BLSMF – Front facing optics | OSQ-BLSMR – 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 A 40K-UL SV

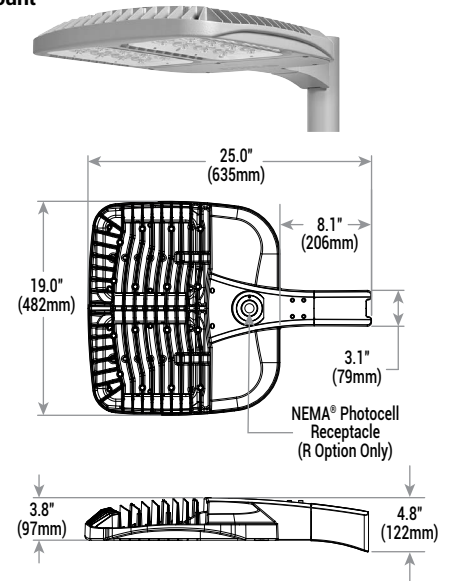
| Mount (Luminaire must be ordered separately) | | | | |
|--|-----------------------|-----------------------|---------------------------------|----------|
| OSQ- | | | | |
| OSQ-AA Adjustable Arm OSQ-DA Direct Arm | Color Options: | SV Silver BK Black | BZ Bronze PB Platinum Bronze | WH White |

| Luminaire (Mount must be ordered separately) | | | | | | | | | | |
|--|---|----------------|--|--|------------------------|--|------------------------|--|--|---|
| OSQ | A | NM | 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 SSH Type V Short | 15D 15' Flood 25D 25' Flood 40D 40' Flood 60D 60' Flood | A 112W J 168W | 30K 3000K 40K 4000K 57K 5700K | - US * Canada | UL Universal 120-277V UH Universal 347-480V | SV Silver BK Black BZ Bronze PB Platinum Bronze WH White | DIM 0-10V Dimming - Control by others - Refer to Dimming spec sheet for details - Can't exceed wattage of specified input power designator F Fuse - When code dictates fusing, use time delay fuse ML Multi-Level - Refer to ML spec sheet for details - High: 100%, Low: 30% - Intended for downlight applications at 0° tilt Q9 Field Adjustable Output - Refer to Field Adjustable Output spec sheet for details R NEMA® Photocell Receptacle - Intended for downlight applications with maximum 45° tilt - Photocell by others RL Rotate Left - LED and optic are rotated to the left RR Rotate Right - LED and optic are rotated to the right |

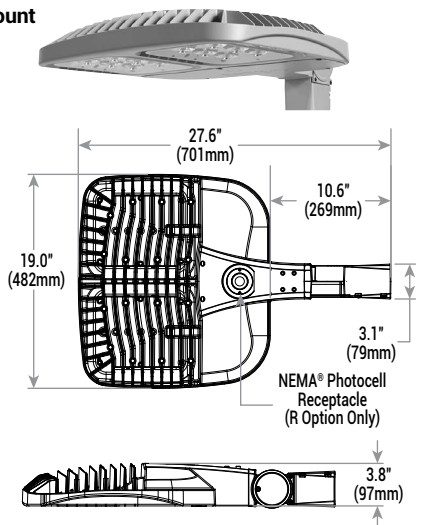
* See www.cree.com/lighting/products/warranty for warranty terms

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

DA Mount



AA Mount



Rev. Date: V4 08/22/2014



US: www.cree.com/lighting

T (800) 236-6800 F (262) 504-5415

Canada: www.cree.com/canada

T (800) 473-1234 F (800) 890-7507

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 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 adapter is rugged die cast aluminum and mounts to 2" (51mm) IP, 2.375" (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 platinum bronze 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
- To address inrush current, slow blow fuse or type C/D breaker should be used

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
- 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
- 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 qualified when ordered with 30K (5ME, 5SH optics), 40K (2ME, 3ME, 4ME, 5ME, 5SH optics), or 57K (2ME, 3ME, 4ME, 5ME, 5SH optics). Please refer to <http://www.designlights.org/QPL> for most current information

| Electrical Data* | | | | | | | |
|------------------------|-----------------------|---------------|------|------|------|------|------|
| Input Power Designator | System Watts 120-480V | Total Current | | | | | |
| | | 120V | 208V | 240V | 277V | 347V | 480V |
| A | 112 | 0.97 | 0.56 | 0.49 | 0.43 | 0.34 | 0.25 |
| J | 168 | 1.47 | 0.85 | 0.74 | 0.64 | 0.50 | 0.36 |

* 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 | 0.99 | 0.94 | 0.88 | 0.84 |
| | J | | | | | |
| 10°C (50°F) | A | 1.03 | 0.98 | 0.93 | 0.88 | 0.83 |
| | J | | | | | |
| 15°C (59°F) | A | 1.02 | 0.97 | 0.92 | 0.87 | 0.83 |
| | J | | | | | |
| 20°C (68°F) | A | 1.01 | 0.96 | 0.91 | 0.86 | 0.82 |
| | J | | | | | |
| 25°C (77°F) | A | 1.00 | 0.95 | 0.90 | 0.85 | 0.81 |
| | J | | | | | |

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)

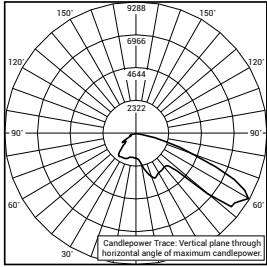
³ In accordance with IESNA TM-21-11, Calculated Values represent time durations that exceed six times (6X) the IESNA LM-80-08 total test duration (in hours) for the device under testing ((DUT) i.e. the packaged LED chip)



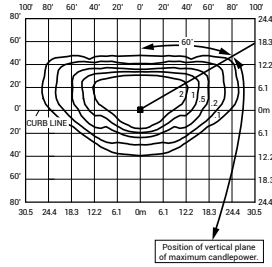
Photometry

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.com/lighting>.

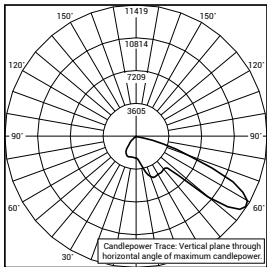
2ME



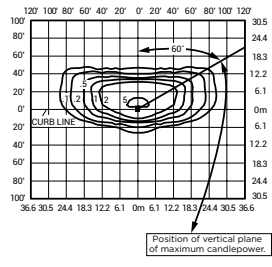
RESTL Test Report #: PL03347-001
OSQ A ** 2ME A 40K-UL
Initial Delivered Lumens: 10,988



OSQ A ** 2ME J 40K-UL
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 16,356
Initial FC at grade



RESTL Test Report #: PL03642-003
OSQ A ** 2ME J 40K-UL w/OSQ-BLSMF
Initial Delivered Lumens: 14,643



OSQ A ** 2ME J 40K-UL w/OSQ-BLSMF
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 14,020
Initial FC at grade

Type II Medium Distribution

| Input Power Designator | 3000K | | 4000K | | 5700K | |
|------------------------|---------------------------|----------------------------|---------------------------|----------------------------|---------------------------|----------------------------|
| | 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 |
| A | 9,136 | B2-U0-G1 | 10,904 | B2-U0-G2 | 11,649 | B2-U0-G2 |
| J | 13,703 | B2-U0-G2 | 16,356 | B3-U0-G2 | 17,474 | B3-U0-G2 |

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

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

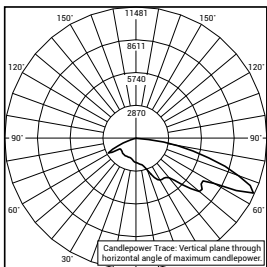
Type II Medium w/BLS Distribution

| Input Power Designator | 3000K | | 4000K | | 5700K | |
|------------------------|---------------------------|----------------------------|---------------------------|----------------------------|---------------------------|----------------------------|
| | 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 |
| A | 7,831 | B1-U0-G1 | 9,346 | B2-U0-G2 | 9,985 | B2-U0-G2 |
| J | 11,746 | B2-U0-G2 | 14,020 | B2-U0-G2 | 14,978 | B2-U0-G2 |

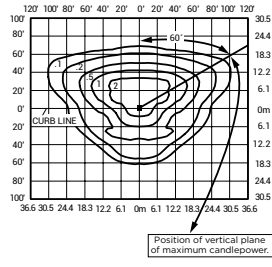
* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -4 and +10% of initial delivered lumens

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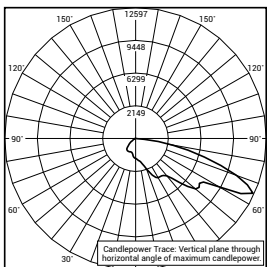
3ME



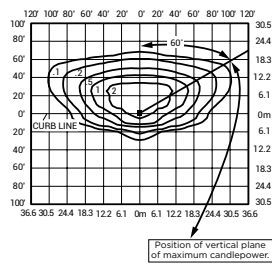
RESTL Test Report #: PL03478-001
OSQ A ** 3ME J 40K-UL
Initial Delivered Lumens: 16,257



OSQ A ** 3ME J 40K-UL
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 16,189
Initial FC at grade



RESTL Test Report #: PL03642-001
OSQ A ** 3ME J 40K-UL w/OSQ-BLSMF
Initial Delivered Lumens: 14,229



OSQ A ** 3ME J 40K-UL w/OSQ-BLSMF
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 13,853
Initial FC at grade

Type III Medium Distribution

| Input Power Designator | 3000K | | 4000K | | 5700K | |
|------------------------|---------------------------|----------------------------|---------------------------|----------------------------|---------------------------|----------------------------|
| | 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 |
| A | 9,042 | B2-U0-G2 | 10,793 | B2-U0-G2 | 11,530 | B2-U0-G2 |
| J | 13,564 | B3-U0-G3 | 16,189 | B3-U0-G3 | 17,296 | B3-U0-G3 |

* 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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Type III Medium w/BLS Distribution

| Input Power Designator | 3000K | | 4000K | | 5700K | |
|------------------------|---------------------------|----------------------------|---------------------------|----------------------------|---------------------------|----------------------------|
| | 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 |
| A | 7,737 | B1-U0-G2 | 9,235 | B1-U0-G2 | 9,866 | B1-U0-G2 |
| J | 11,606 | B1-U0-G2 | 13,853 | B2-U0-G3 | 14,799 | B2-U0-G3 |

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

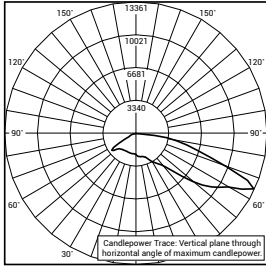
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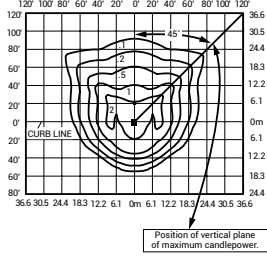
Photometry

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.com/lighting>.

4ME



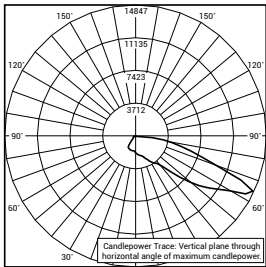
RESTL Test Report #: PL03496-001
OSQ A ** 4ME J 40K-UL
Initial Delivered Lumens: 16,293



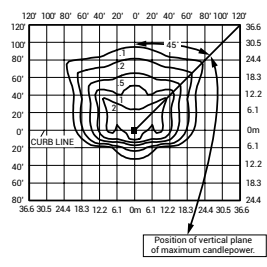
OSQ A ** 4ME J 40K-UL
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 16,022
Initial FC at grade

| Type IV Medium Distribution | | | | | | |
|-----------------------------|---------------------------|----------------------------|---------------------------|----------------------------|---------------------------|----------------------------|
| Input Power Designator | 3000K | | 4000K | | 5700K | |
| | 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 |
| A | 8,949 | B2-U0-G2 | 10,682 | B2-U0-G2 | 11,412 | B2-U0-G3 |
| J | 13,424 | B3-U0-G3 | 16,022 | B3-U0-G3 | 17,117 | B3-U0-G3 |

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -4 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: www.iesna.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf. Valid with no tilt



RESTL Test Report #: PL03642-002
OSQ A ** 4ME J 40K-UL w/OSQ-BLSMF
Initial Delivered Lumens: 13,647

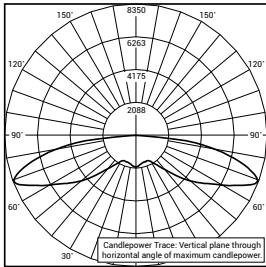


OSQ A ** 4ME J 40K-UL w/OSQ-BLSMF
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 14,020
Initial FC at grade

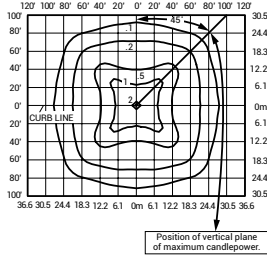
| Type IV Medium w/BLS Distribution | | | | | | |
|-----------------------------------|---------------------------|----------------------------|---------------------------|----------------------------|---------------------------|----------------------------|
| Input Power Designator | 3000K | | 4000K | | 5700K | |
| | 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 |
| A | 7,644 | B1-U0-G2 | 9,124 | B1-U0-G2 | 9,747 | B1-U0-G2 |
| J | 11,466 | B2-U0-G3 | 13,686 | B2-U0-G3 | 14,621 | B2-U0-G3 |

* 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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5ME



RESTL Test Report #: PL03466-001
OSQ A ** 5ME A 40K-UL
Initial Delivered Lumens: 20,709

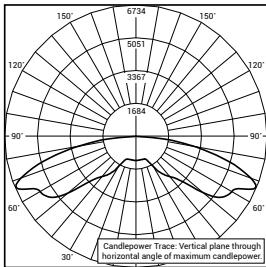


OSQ A ** 5ME A 40K-UL
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 15,480
Initial FC at grade

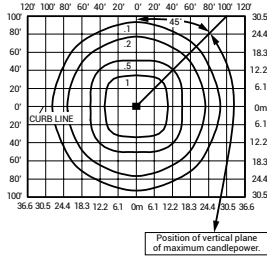
| Type V Medium Distribution | | | | | | |
|----------------------------|---------------------------|----------------------------|---------------------------|----------------------------|---------------------------|----------------------------|
| Input Power Designator | 3000K | | 4000K | | 5700K | |
| | 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 |
| A | 8,716 | B3-U0-G3 | 10,320 | B4-U0-G3 | 10,473 | B4-U0-G3 |
| J | 13,075 | B4-U0-G4 | 15,480 | B4-U0-G4 | 15,710 | B4-U0-G4 |

* 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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5SH



RESTL Test Report #: PL03501-001
OSQ A ** 5SH S 40K-UL
Initial Delivered Lumens: 21,066



OSQ A ** 5SH S 40K-UL
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 15,817
Initial FC at grade

| Type V Short Distribution | | | | | | |
|---------------------------|---------------------------|----------------------------|---------------------------|----------------------------|---------------------------|----------------------------|
| Input Power Designator | 3000K | | 4000K | | 5700K | |
| | 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 |
| A | 8,906 | B3-U0-G3 | 10,544 | B4-U0-G3 | 10,701 | B4-U0-G3 |
| J | 13,359 | B4-U0-G3 | 15,817 | B4-U0-G4 | 16,052 | B4-U0-G4 |

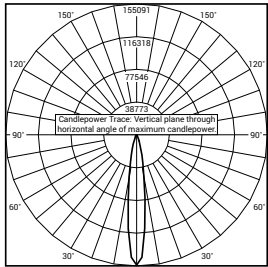
* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -4 and +10% of initial delivered lumens
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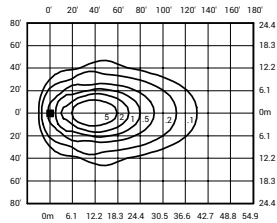
Photometry

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15D



RESTL Test Report #: PL03903-001
OSQ A ** 15D S 40K-UL
Initial Delivered Lumens: 22,600

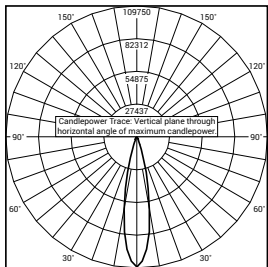


OSQ A ** 15D J 40K-UL
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 16,153
60° Tilt
Initial FC at grade

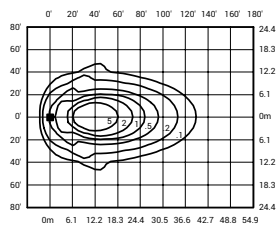
| 15° Flood Distribution | | | |
|------------------------|---------------------------|---------------------------|---------------------------|
| Input Power Designator | 3000K | 4000K | 5700K |
| | Initial Delivered Lumens* | Initial Delivered Lumens* | Initial Delivered Lumens* |
| A | 9,095 | 10,769 | 10,929 |
| J | 13,643 | 16,153 | 16,393 |

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

25D



RESTL Test Report #: PL03903-002
OSQ A ** 25D S 40K-UL
Initial Delivered Lumens: 22,633

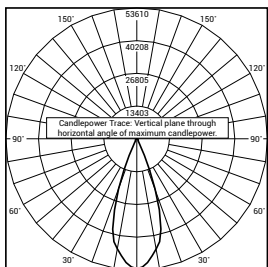


OSQ A ** 25D J 40K-UL
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 16,153
60° Tilt
Initial FC at grade

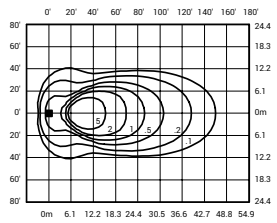
| 25° Flood Distribution | | | |
|------------------------|---------------------------|---------------------------|---------------------------|
| Input Power Designator | 3000K | 4000K | 5700K |
| | Initial Delivered Lumens* | Initial Delivered Lumens* | Initial Delivered Lumens* |
| A | 9,095 | 10,769 | 10,929 |
| J | 13,643 | 16,153 | 16,393 |

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

40D



RESTL Test Report #: PL03903-003
OSQ A ** 40D S 40K-UL
Initial Delivered Lumens: 22,404



OSQ A ** 40D J 40K-UL
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 15,985
60° Tilt
Initial FC at grade

| 40° Flood Distribution | | | |
|------------------------|---------------------------|---------------------------|---------------------------|
| Input Power Designator | 3000K | 4000K | 5700K |
| | Initial Delivered Lumens* | Initial Delivered Lumens* | Initial Delivered Lumens* |
| A | 9,001 | 10,657 | 10,815 |
| J | 13,501 | 15,985 | 16,222 |

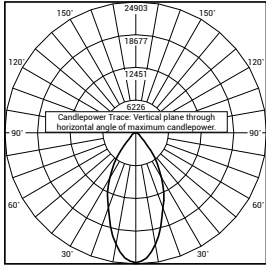
* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -4 and +10% of initial delivered lumens



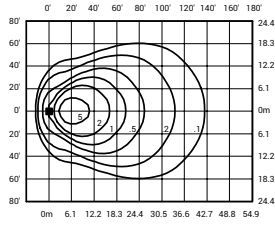
Photometry

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.com/lighting>.

60D



RESTL Test Report #: PL03903-004
 OSQ A ** 60D S 40K-UL
 Initial Delivered Lumens: 22,301



OSQ A ** 60D J 40K-UL
 Mounting Height: 25' (7.6m) A.F.G.
 Initial Delivered Lumens: 16,153
 60° Tilt
 Initial FC at grade







| 60° Flood Distribution | | | |
|------------------------|---------------------------|---------------------------|---------------------------|
| Input Power Designator | 3000K | 4000K | 5700K |
| | Initial Delivered Lumens* | Initial Delivered Lumens* | Initial Delivered Lumens* |
| A | 9,095 | 10,769 | 10,929 |
| J | 13,643 | 16,153 | 16,393 |










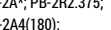




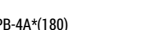

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -4 and +10% of initial delivered lumens



OSQ Series – Medium

Luminaire EPA

| Fixed Arm Mount – OSQ-DA Weight: 26.5 lbs. (12kg) | | | | | | | |
|---|---|---|---|---|----------|----------|---|
| Single | 2 @ 180° | 2 @ 90° | 3 @ 90° | 3 @ 120° | 3 @ 180° | 4 @ 180° | 4 @ 90° |
|  |  |  |  |  | | |  |
| 0.74 | 1.48 | 1.19 | 1.93 | 1.63 | 3.33 | 4.66 | 2.38 |

| Adjustable Arm Mount – OSQ-AA Weight: 26.5 lbs. (12kg) | | | | | | | |
|---|---|---|---|---|---|---|---|
| Single | 2 @ 180° | 2 @ 90° | 3 @ 90° | 3 @ 120° | 3 @ 180° | 4 @ 180° | 4 @ 90° |
| Tenon Configuration (0°-80° Tilt); If used with Cree tenons, please add tenon EPA with Luminaire EPA | | | | | | | |
|  |  |  |  |  |  |  |  |
| PB-1A*; PT-1; PW-1A3** | PB-2A*; PB-2R2.375; PD-2A4(180); PT-2(180); PW-2A3** | PB-2A*; PD-2A4(90); PT-2(90) | PB-3A*; PD-3A4(90); PT-3(90) | PB-3A*; PT-3(120) | PB-3A*; PB-3R2.375 | PB-4A*(180) | PB-4A*(90); PB-4R2.375; PD-4A4(90); PT-4(90) |
| 0° Tilt | | | | | | | |
| 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 (90° Tilt); If used with Cree tenons, please add tenon EPA with Luminaire 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
 ** Specify pole size: 3 (3"), 4 (4"), 5 (5"), or 6 (6")



Tenon EPA

| Tenon | 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 |

| Tenons and Brackets (must specify color) | |
|---|--|
| Square Internal Mount Vertical Tenons (Steel) - Mounts to 3-6" (76-152mm) square aluminum or steel poles PB-1A* – Single PB-4A*(90) – 90° Quad PB-2A* – 180° Twin PB-4A*(180) – 180° Quad PB-3A* – 180° Triple | Round Internal Mount Vertical Tenons (Steel) - Mounts to 2.375" (60mm) O.D. round aluminum or steel poles or tenons PB-2R2.375 – Twin PB-4R2.375 – Quad PB-3R2.375 – Triple |
| Square Internal Mount Horizontal Tenons (Aluminum) - Mounts to 4" (102mm) square aluminum or steel poles PD-2A4(90) – 90° Twin PD-3A4(90) – 90° Triple PD-2A4(180) – 180° Twin PD-4A4(90) – 90° Quad | Round External Mount Horizontal Tenons (Aluminum) - Mounts to 2.375" (60mm) O.D. round aluminum or steel poles or tenons - Mounts to square pole with PB-1A* tenon PT-1 – Single PT-3(90) – 90° Triple PT-2(90) – 90° Twin PT-4(90) – 90° Quad PT-2(180) – 180° Twin |
| Wall Mount Brackets - Mounts to wall, roof or side of wood pole WM-2 – Horizontal WM-4 – L-Shape | Mid-Pole Bracket - Mounts to square pole PW-1A3** – Single PW-2A3** – Double |

* 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")

