

OSQ Series

OSQ™ LED Area/Flood Luminaire featuring Cree TrueWhite® Technology – Large

Rev. Date: V26 04/23/2020

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 'T' input power designator is a suitable upgrade for HID applications up to 750 Watts, and the 'U' input power designator is a suitable upgrade for HID applications up to 1000 Watts.

Applications: Parking lots, walkways, campuses, auto dealerships, office complexes, tunnels, underpasses and internal roadways

Performance Summary

Utilizes Cree TrueWhite® Technology on 5000K Luminaires

NanoOptic® Precision Delivery Grid™ optic

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

Initial Delivered Lumens: Up to 29,400

Efficacy: Up to 146 LPW

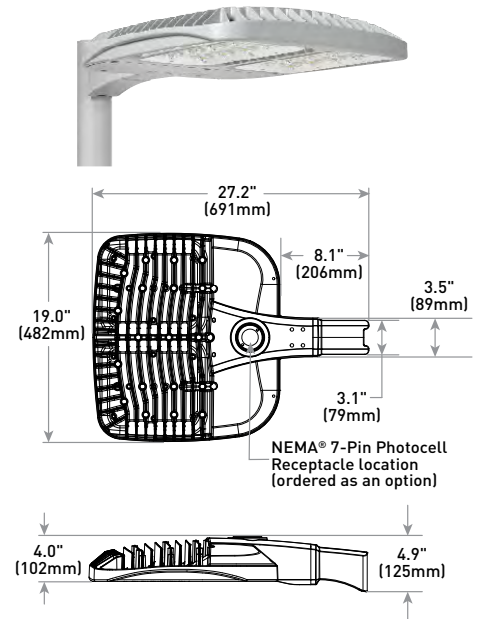
CRI: Minimum 70 CRI (3000K, 4000K & 5700K); 90 CRI (5000K)

CCT: 3000K, 4000K, 5000K, 5700K

Limited Warranty*: 10 years on luminaire; 10 years on Colorfast DeltaGuard® finish; up to 5 years for Synapse® accessories; 1 year on luminaire accessories

* See <http://creelighting.com/warranty> for warranty terms. For Synapse accessories, consult Synapse spec sheets for details on warranty terms.

DA Mount



Weight

32.4 lbs. (14.7kg)

Ordering Information

Fully assembled luminaire is composed of two components that must be ordered separately:

Example: **Mount:** OSQ-B-AASV + **Luminaire:** OSQ-A-NM-2ME-T-40K-UL-SV

Mount (Luminaire must be ordered separately)*		
OSQ-		
OSQ-B-AA Adjustable Arm		
OSQ-DA Direct Arm		
OSQ-L-TSP Transportation Mount (stainless steel; do not specify color)		
OSQ-TM Trunnion Mount		
	Color Options:	SV Silver BK Black BZ Bronze WH White

* Reference EPA and pole configuration suitability data beginning on page 9

Luminaire (Mount must be ordered separately)								
OSQ	A	NM						
Product	Version	Mounting	Optic	Input Power Designator	CCT	Voltage	Color Options	Options
OSQ	A	NM No Mount	Asymmetric 2ME* Type II Medium 4ME* Type IV Medium 3ME* Type III Medium Symmetric 5ME Type V Medium 5SH Type V Short WSN Wide Sign 15D 15" Flood	T 166W U 202W	30K 3000K, 70 CRI 40K 4000K, 70 CRI 50K 5000K, 90 CRI 57K 5700K, 70 CRI	UL Universal 120-277V UH Universal 347-480V	BK Black BZ Bronze SV Silver WH White	PML Programmable Multi-Level, up to 40' Mounting Height - Refer to PML spec sheet for details - Intended for downlight applications at 0° tilt PML2 Programmable Multi-Level, 10-30' Mounting Height - Refer to PML spec sheet for details - Intended for downlight applications at 0° tilt Q9/Q8/Q7/Q6/Q5/Q4/Q3/Q2/Q1 Field Adjustable Output - Must select Q9, Q6, Q5, Q4, Q3, Q2, or Q1 for T input power designator - Must select Q9, Q8, Q7, Q6, Q5, Q4, Q3, Q2, or Q1 for U input power designator - Offers full range adjustability - Refer to pages 11-12 for power and lumen values - Not available with PML or PML2 options R NEMA® 7-Pin Photocell Receptacle - 7-pin receptacle per ANSI C136.41 - Intended for downlight applications with maximum 45° tilt - Factory connected 0-10V dim leads - 18" [457mm] seven-conductor cord exits luminaire - Requires photocell or shorting cap by others RL Rotate Left - LED and optic are rotated to the left - Refer to RR/RL configuration diagram on page 13 for optic directionality RR Rotate Right - LED and optic are rotated to the right - Refer to RR/RL configuration diagram on page 13 for optic directionality

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



US: creelighting.com (800) 236-6800

Canada: creelighting-canada.com (800) 473-1234

CREE LIGHTING

OSQ™ LED Area/Flood Luminaire featuring Cree TrueWhite® Technology – Large

Product Specifications

CREE TRUEWHITE® TECHNOLOGY

A revolutionary way to generate high-quality white light, Cree TrueWhite® Technology is a patented approach that delivers an exclusive combination of 90+ CRI, beautiful light characteristics and lifelong color consistency, all while maintaining high luminous efficacy – a true no compromise solution.

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" (76mm) or larger 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) O.D. tenon
- Adjustable arm mount can be adjusted 180° in 2.5° increments
- Transportation mount is constructed of 316 stainless steel and mounts to surface with (4) 3/8" fasteners by others
- Trunnion mount is constructed of A500 and A1011 steel and is adjustable from 0-180° in 15° degree increments. Trunnion mount secures to surface with (1) 3/4" bolt or (2) 1/2" or 3/8" bolts
- Includes 18" (340mm) 18/5 or 16/5 cord exiting the luminaire. When ordered with R option, 18" (340mm) 18/7 or 16/7 cord is provided
- 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:** OSQ-DA: 32.4 lbs. (14.7kg); OSQ-B-AA: 32.0 lbs. (14.5kg); OSQ-L-TSP: 44 lbs. (20.0kg); OSQ-TM: 36.1 lbs. (16.4kg)

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
- Consult factory if in-luminaire fusing is required
- Designed with 0-10V dimming capabilities. Controls by others
- Refer to [Dimming spec sheet](#) for details
- **10V Source Current:** 0.15mA
- **Operating Temperature Range:** -40°C - +40°C [-40°F - +104°F]

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
- ANSI C136.2 10kV surge protection, tested in accordance with IEEE/ANSI C62.41.2
- Meets FCC Part 15, Subpart B, Class A limits 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 with 70 CRI. Some exceptions apply. Please refer to <https://www.designlights.org/search/> for most current information
- RoHS compliant. Consult factory for additional details
- Dark Sky Friendly, IDA Approved when ordered with 30K CCT and direct or transportation mounts only. Please refer to <https://www.darksky.org/our-work/lighting/lighting-for-industry/fsa/fsa-products/> for most current information
-  **CA RESIDENTS WARNING:** Cancer and Reproductive Harm – www.p65warnings.ca.gov

Product Specifications

SYNAPSE® SIMPLYSNAP INTELLIGENT CONTROL

The Synapse SimplySNAP platform is a highly intuitive connected lighting solution featuring zone dimming, motion sensing, and daylight harvesting with utility-grade power monitoring and support of up to 1000 nodes per gateway. The system features a reliable and robust self-healing mesh network with a browser-based interface that runs on smartphones, tablets, and PCs. The Twist-Lock Lighting Controller (TL7-B2) and Site Controller (SS450-002) take the OSQ Series to a new performance plateau, providing extreme energy productivity, code compliance and a better light experience.

Electrical Data*							
Input Power Designator	System Watts 120-480V	Total Current (A)					
		120V	208V	240V	277V	347V	480V
T	166	1.41	0.83	0.72	0.62	0.49	0.35
U	202	1.72	0.96	0.84	0.72	0.60	0.43

* Electrical data at 25°C (77°F). Actual wattage may differ by +/- 10% when operating between 120-277V or 347-480V +/-10%

OSQ Series Ambient Adjusted Lumen Maintenance¹						
Ambient	Optic	Initial LMF	25K hr Reported² LMF	50K hr Reported² LMF	75K hr Reported² /Calculated³ LMF	100K hr Reported² /Calculated³ LMF
5°C (41°F)	Asymmetric	1.04	1.03	1.01	0.99²	0.97²
	Symmetric	1.05	1.05	1.05	1.05³	1.05³
10°C (50°F)	Asymmetric	1.03	1.02	1.00	0.98²	0.96²
	Symmetric	1.04	1.03	1.03	1.03³	1.03³
15°C (59°F)	Asymmetric	1.02	1.01	0.99	0.97²	0.95²
	Symmetric	1.02	1.02	1.02	1.02³	1.02³
20°C (68°F)	Asymmetric	1.01	1.00	0.98	0.96²	0.94²
	Symmetric	1.01	1.01	1.01	1.01³	1.01³
25°C (77°F)	Asymmetric	1.00	0.99	0.97	0.95²	0.93²
	Symmetric	1.00	1.00	1.00	1.00³	1.00³

¹ Lumen maintenance values at 25°C (77°F) are calculated per IES TM-21 based on IES LM-80 report data for the LED package and in-situ luminaire testing. Luminaire ambient temperature factors (LATF) have been applied to all lumen maintenance factors. Please refer to the [Temperature Zone Reference Document](#) for outdoor average nighttime ambient conditions.

² In accordance with IES TM-21, Reported values represent interpolated values based on time durations that are up to 6x the tested duration in the IES LM-80 report for the LED.

³ Estimated values are calculated and represent time durations that exceed the 6x test duration of the LED.

Accessories

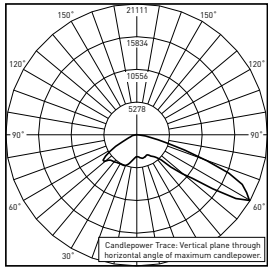
Field-Installed			
Backlight Shield OSQ-BLSLF – Front facing optics OSQ-BLSLR – Rotated optics	Hand-Held Remote XA-SENSREM – For successful implementation of the programmable multi-level option, a minimum of one hand-held remote is required	Bird Spikes OSQ-LG-BRDSPK	Shorting Cap XA-XSLSHRT
Synapse Wireless Control Accessories			
Twist-Lock Lighting Controller TL7-B2 – Suitable for 120-277V (UL) voltage only – Requires NEMA/ANSI C136.41 7-Pin Dimming Receptacle – Not for use with PML or Q options – Provides On/Off switching, dimming, power metering, digital sensor input, and status monitoring of luminaires – Refer to TL7-B2 spec sheet for details		SimplySNAP On-Site Controller SS450-002 – Verizon® LTE-enabled – Designed for indoor applications – Refer to SS450-002 spec sheet for details	
SimplySNAP Central Base Station CBSSW-450-002 – Includes On-Site Controller (SS450-002) and 5-button switch – Indoor and Outdoor rated		Building Management System (BMS) Gateway BMS-GW-002 – Required for BACnet integration – Refer to BMS-GW-002 spec sheet for details	
Synapse Wireless Sensor WSN-DPM – Motion and light sensor – Control multiple zones – Refer to WSN-DPM spec sheet for details		Outdoor Antennas (Optional, for increased range, 8dB gain) KIT-ANT420SM – Kit includes antenna, 20' cable and bracket KIT-ANT360 – Kit includes antenna, 30' cable and bracket KIT-ANT600 – Kit includes antenna, 50' cable and bracket	

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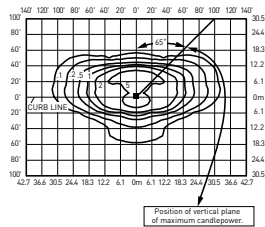
Photometry

All published luminaire photometric testing performed to IES LM-79-08 standards. To obtain an IES file specific to your project consult:
<http://creelighting.com/products/outdoor/area/osq-series>

2ME



CESTL Test Report #: PL07701-001A
 OSQ-A**-2ME-U-40K-UL
 Initial Delivered Lumens: 26,946

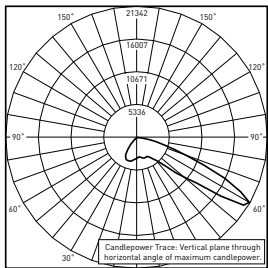


OSQ-A**-2ME-U-40K-UL
 Mounting Height: 25' (7.6m) A.F.G.
 Initial Delivered Lumens: 29,100
 Initial FC at grade

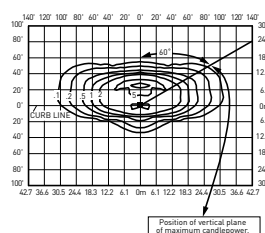
Type II Medium Distribution								
Input Power Designator	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
T	20,688	B3 U0 G3	21,902	B3 U0 G3	18,600	B3 U0 G3	22,330	B3 U0 G3
U	27,800	B3 U0 G3	29,100	B3 U0 G3	22,300	B3 U0 G3	29,100	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: <https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>. Valid with no tilt



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



OSQ-A**-2ME-U-40K-UL w/OSQ-BLSLF
 Mounting Height: 25' (7.6m) A.F.G.
 Initial Delivered Lumens: 22,300
 Initial FC at grade

Type II Medium w/BLS Distribution								
Input Power Designator	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	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	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
T	15,897	B2 U0 G2	16,830	B3 U0 G2	14,250	B2 U0 G2	17,159	B3 U0 G2
U	21,400	B3 U0 G3	22,300	B3 U0 G3	17,100	B3 U0 G2	22,300	B3 U0 G3

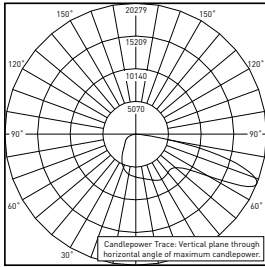
* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

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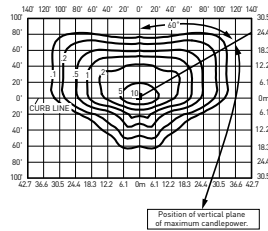
Photometry

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<http://creelighting.com/products/outdoor/area/osq-series>

3ME



CESTL Test Report #: PL15529-001A
 OSQ-A-**-3ME-U-40K-UL
 Initial Delivered Lumens: 30,584

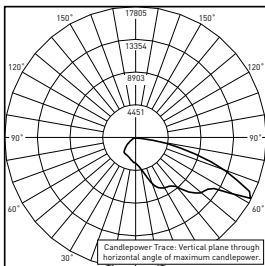


OSQ-A-**-3ME-U-40K-UL
 Mounting Height: 25' (7.6m) A.F.G.
 Initial Delivered Lumens: 29,100
 Initial FC at grade

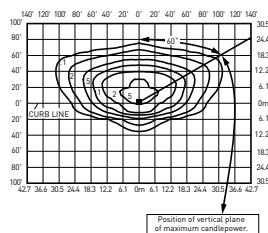
Type III Medium Distribution								
Input Power Designator	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
T	20,688	B3 U0 G3	21,902	B3 U0 G3	18,600	B3 U0 G3	22,330	B3 U0 G3
U	27,800	B3 U0 G4	29,100	B3 U0 G4	22,300	B3 U0 G3	29,100	B3 U0 G4

* 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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CESTL Test Report #: PL07699-001A
 OSQ-A-**-3ME-U-57K-UL w/OSQ-BLSLF
 Initial Delivered Lumens: 23,601



OSQ-A-**-3ME-U-57K-UL w/OSQ-BLSLF
 Mounting Height: 25' (7.6m) A.F.G.
 Initial Delivered Lumens: 23,000
 Initial FC at grade

Type III Medium w/BLS Distribution								
Input Power Designator	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	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	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
T	16,333	B2 U0 G2	17,291	B2 U0 G2	14,650	B2 U0 G2	17,629	B2 U0 G3
U	21,900	B3 U0 G3	23,000	B3 U0 G3	17,600	B2 U0 G3	23,000	B3 U0 G3

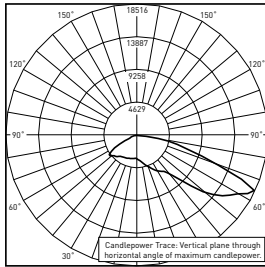
* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

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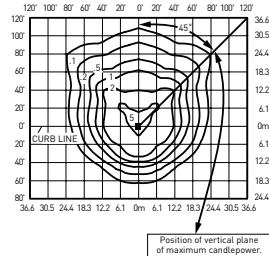
Photometry

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<http://creelighting.com/products/outdoor/area/osq-series>

4ME



CESTL Test Report #: PL07690-001A
 OSQ-A-**-4ME-U-40K-UL
 Initial Delivered Lumens: 27,527

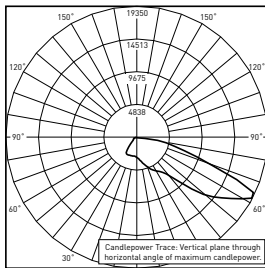


OSQ-A-**-4ME-U-40K-UL
 Mounting Height: 25' (7.6m) A.F.G.
 Initial Delivered Lumens: 29,100
 Initial FC at grade

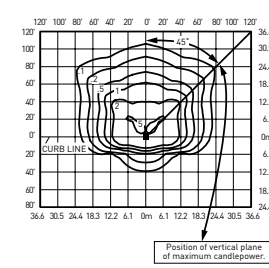
Type IV Medium Distribution								
Input Power Designator	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
T	20,688	B3 U0 G3	21,902	B3 U0 G3	18,600	B3 U0 G3	22,330	B3 U0 G3
U	27,800	B4 U0 G3	29,100	B4 U0 G4	22,300	B3 U0 G3	29,100	B4 U0 G4

* 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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CESTL Test Report #: PL07692-001A
 OSQ-A-**-4ME-U-57K-UL w/OSQ-BLSLF
 Initial Delivered Lumens: 22,793



OSQ-A-**-4ME-U-57K-UL w/OSQ-BLSLF
 Mounting Height: 25' (7.6m) A.F.G.
 Initial Delivered Lumens: 22,300
 Initial FC at grade

Type IV Medium w/BLS Distribution								
Input Power Designator	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	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	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
T	15,897	B2 U0 G3	16,830	B2 U0 G3	14,250	B2 U0 G3	17,159	B2 U0 G3
U	21,400	B3 U0 G3	22,300	B3 U0 G3	17,100	B2 U0 G3	22,300	B3 U0 G3

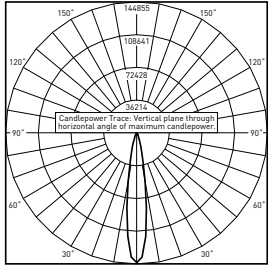
* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

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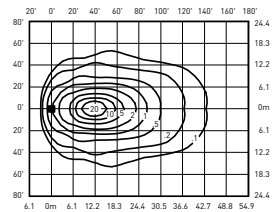
Photometry

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<http://creelighting.com/products/outdoor/area/osq-series>

15D



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



OSQ-A-**-15D-U-40K-UL
 Mounting Height: 25' (7.6m) A.F.G., 60° Tilt
 Initial Delivered Lumens: 29,400
 Initial FC at grade

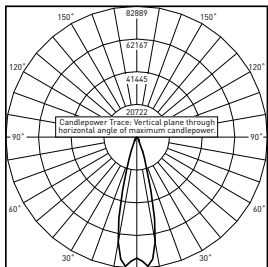
15° Flood Distribution

Input Power Designator	3000K (70 CRI)	4000K (70 CRI)	5000K (90 CRI)	5700K (70 CRI)
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
T	21,349	22,675	20,900	23,069
U	28,100	29,400	24,900	29,400

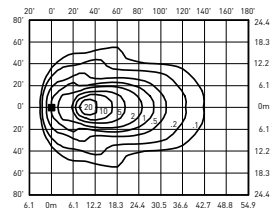
* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

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<https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>. Valid with no tilt

25D



CESTL Test Report #: PL07696-001A
 OSQ-A-**-25D-U-30K-UL
 Initial Delivered Lumens: 23,265



OSQ-A-**-25D-U-40K-UL
 Mounting Height: 25' (7.6m) A.F.G., 60° Tilt
 Initial Delivered Lumens: 29,400
 Initial FC at grade

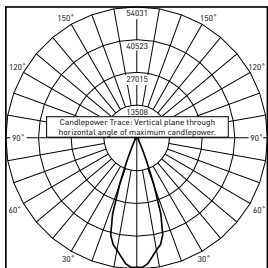
25° Flood Distribution

Input Power Designator	3000K (70 CRI)	4000K (70 CRI)	5000K (90 CRI)	5700K (70 CRI)
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
T	21,349	22,675	20,900	23,069
U	28,100	29,400	24,900	29,400

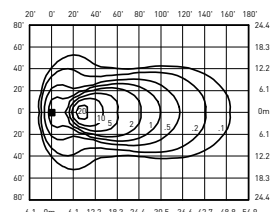
* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit:
<https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>. Valid with no tilt

40D



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



OSQ-A-**-40D-U-40K-UL
 Mounting Height: 25' (7.6m) A.F.G., 60° Tilt
 Initial Delivered Lumens: 29,400
 Initial FC at grade

40° Flood Distribution

Input Power Designator	3000K (70 CRI)	4000K (70 CRI)	5000K (90 CRI)	5700K (70 CRI)
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
T	21,349	22,675	20,900	23,069
U	28,100	29,400	24,900	29,400

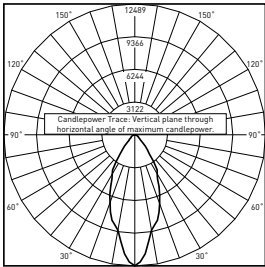
* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit:
<https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>. Valid with no tilt

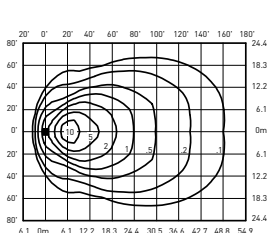
Photometry

All published luminaire photometric testing performed to IES LM-79-08 standards. To obtain an IES file specific to your project consult:
<http://creelighting.com/products/outdoor/area/osq-series>

60D



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

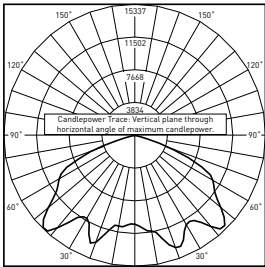


OSQ-A-**-60D-U-40K-UL
Mounting Height: 25' (7.6m) A.F.G., 60° Tilt
Initial Delivered Lumens: 29,400
Initial FC at grade

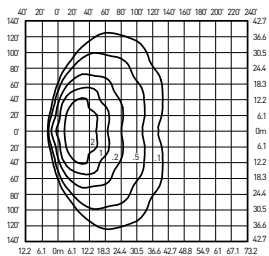
60° Flood Distribution				
Input Power Designator	3000K (70 CRI)	4000K (70 CRI)	5000K (90 CRI)	5700K (70 CRI)
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
T	21,349	22,675	20,900	23,069
U	28,100	29,400	24,900	29,400

* 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:
<https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>. Valid with no tilt

WSN



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



OSQ-A-**-WSN-U-40K-UL
Mounting Height: 25' (7.6m) A.F.G., 60° tilt
Initial Delivered Lumens: 29,400
Initial FC at grade

Wide Sign Distribution				
Input Power Designator	3000K (70 CRI)	4000K (70 CRI)	5000K (90 CRI)	5700K (70 CRI)
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
T	21,349	22,675	20,900	23,069
U	28,100	29,400	24,900	29,400

* 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:
<https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>. Valid with no tilt

Luminaire EPA

Adjustable Arm Mount – OSQ-B-AA Weight: 32.0 lbs. (14.5kg)							
Single	2 @ 180°	2 @ 90°	3 @ 90°	3 @ 120°	3 @ 180°	4 @ 180°	4 @ 90°
Tenon Configuration (0° -80° Tilt); If used with Cree Lighting 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							
0.80	1.61	1.26	2.06	1.68	3.33	4.66	2.52
10° Tilt							
0.81	1.61	1.62	2.42	2.32	4.40	6.08	3.24
20° Tilt							
1.24	1.61	2.04	2.84	3.13	5.68	7.80	4.08
30° Tilt							
1.64	1.64	2.44	3.24	3.97	6.88	9.40	4.88
45° Tilt							
2.20	2.20	3.00	3.80	5.07	8.55	11.64	6.00
60° Tilt							
2.63	2.63	3.43	4.23	5.73	9.84	13.36	6.86
70° Tilt							
2.82	2.82	3.62	4.42	5.73	10.41	14.12	7.24
80° Tilt							
2.93	2.93	3.73	4.53	5.73	10.74	14.56	7.46
Tenon Configuration (90° Tilt); If used with Cree Lighting 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							
2.95	2.95	4.84	6.52	5.73	10.81	14.64	11.19

* 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")

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

* 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")

US: creelighting.com (800) 236-6800

Canada: creelighting-canada.com (800) 473-1234

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-2A* – 180° Twin PB-3A* – 180° Triple PB-4A*(90) – 90° Quad PB-4A*(180) – 180° Quad	Round External Mount Vertical Tenons (Steel) - Mounts to 2.375" (60mm) O.D. round aluminum or steel poles or tenons PB-2R2.375 – Twin PB-3R2.375 – Triple PB-4R2.375 – Quad
Square Internal Mount Horizontal Tenons (Aluminum) - Mounts to 4" (102mm) square aluminum or steel poles PD-2A4(90) – 90° Twin PD-2A4(180) – 180° Twin PD-3A4(90) – 90° Triple 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 (Vertical) PT-2(90) – 90° Twin PT-2(180) – 180° Twin PT-3(90) – 90° Triple PT-3(120) – 120° Triple PT-4(90) – 90° Quad
Wall Mount Brackets - Mounts to wall or roof WM-2 – Horizontal for OSQ-B-AA mount WM-4 – L-Shape for OSQ-B-AA mount WM-DM – Plate for OSQ-DA mount	Mid-Pole Bracket - Mounts to square pole PW-1A3** – Single PW-2A3** – Double
	Ground Mount Post - For ground-mounted flood luminaires PGM-1 – for OSQ-B-AA mount

[†] Refer to the [Bracket and Tenons spec sheet](#) for more details

Luminaire EPA

Direct Arm Mount – OSQ-DA Weight: 32.4 lbs. (14.7kg)					
Single	2 @ 180°	2 @ 90°	3 @ 90°	3 @ 120°	4 @ 90°
					
0.80	1.61	1.26	2.06	1.68	2.52

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					
T & U	N/A	✓	N/A	N/A	N/A
3" Round					
T & U	N/A	✓	N/A	N/A	N/A
4" Square					
T & U	✓	✓	✓	N/A	✓
4" Round					
T & U	✓	✓	✓	✓	✓
5" Square					
T & U	✓	✓	✓	N/A	✓
5" Round					
T & U	✓	✓	✓	✓	✓
6" + Square					
T & U	✓	✓	✓	N/A	✓
6" + Round					
T & U	✓	✓	✓	✓	✓

Luminaire EPA

Trunnion Mount – OSQ-TM Weight: 36.1 lbs. (16.4kg)	
Single	
0° Tilt	
0.81	
15° Tilt	
1.12	
30° Tilt	
1.74	
45° Tilt	
2.35	
60° Tilt	
2.59	
75° Tilt	
2.83	
90° Tilt	
3.07	

Field Adjustable Output (Q9/Q6/Q5/Q4/Q3/Q2/Q1) Option Description:

The Field Adjustable Output option enables the OSQ area luminaires to be tuned to the exact needs of a particular application through multiple levels of adjustment. When ordered with the Q option, the luminaire will be shipped from the factory at the selected Q setting and will be fully adjustable between the nine settings.

Q Option Power & Lumen Data – Designator T

Q Option Setting	CCT/CRI	System Watts	Lumen Values						Optics Qualified on DLC QPL	
		120-480V	Asymmetric	5ME	5SH & Floods	2ME w/BLS	3ME w/BLS	4ME w/BLS	Standard	Premium
Q9 (Full Power)	30K (70 CRI)	166	20,688	20,213	21,349	15,897	16,333	15,897	5ME, 15D, 25D, 40D, 60D, WSN	2ME, 3ME, 4ME, 5SH
	40K (70 CRI)		21,902	21,469	22,675	16,830	17,291	16,830	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		18,600	19,800	20,900	14,250	14,650	14,250	TBD	TBD
	57K (70 CRI)		22,330	21,842	23,069	17,159	17,629	17,159	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
Q6	30K (70 CRI)	151	18,826	18,394	19,428	14,466	14,863	14,466	5ME, 15D, 25D, 40D, 60D, WSN	2ME, 3ME, 4ME, 5SH
	40K (70 CRI)		19,931	19,537	20,634	15,315	15,735	15,315	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		16,600	17,800	18,700	12,750	13,100	12,750	TBD	TBD
	57K (70 CRI)		20,320	19,876	20,993	15,615	16,042	15,615	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
Q5	30K (70 CRI)	135	16,964	16,575	17,506	13,036	13,393	13,036	5ME, 15D, 25D, 40D, 60D, WSN	2ME, 3ME, 4ME, 5SH
	40K (70 CRI)		17,960	17,605	18,594	13,801	14,179	13,801	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		14,975	16,000	16,900	11,500	11,825	11,500	TBD	TBD
	57K (70 CRI)		18,311	17,910	18,917	14,070	14,456	14,070	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
Q4	30K (70 CRI)	115	15,102	14,755	15,585	11,605	11,923	11,605	5ME, 15D, 25D, 40D, 60D, WSN	2ME, 3ME, 4ME, 5SH
	40K (70 CRI)		15,988	15,672	16,553	12,286	12,622	12,286	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		13,050	14,000	14,775	10,025	10,300	10,025	TBD	TBD
	57K (70 CRI)		16,301	15,945	16,840	12,526	12,869	12,526	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
Q3	30K (70 CRI)	96	13,033	12,734	13,450	10,015	10,290	10,015	5ME, 15D, 25D, 40D, 60D, WSN	2ME, 3ME, 4ME, 5SH
	40K (70 CRI)		13,798	13,525	14,285	10,603	10,893	10,603	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		11,100	11,925	12,600	8,525	8,775	8,525	TBD	TBD
	57K (70 CRI)		14,068	13,760	14,533	10,810	11,106	10,810	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
Q2	30K (70 CRI)	79	10,551	10,309	10,888	8,107	8,330	8,107	5ME, 15D, 25D, 40D, 60D, WSN	2ME, 3ME, 4ME, 5SH
	40K (70 CRI)		11,170	10,949	11,564	8,583	8,818	8,583	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		9,075	9,750	10,300	6,975	7,175	6,975	TBD	TBD
	57K (70 CRI)		11,388	11,139	11,765	8,751	8,991	8,751	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
Q1	30K (70 CRI)	58	8,689	8,489	8,967	6,677	6,860	6,677	5ME, 15D, 25D, 40D, 60D, WSN	2ME, 3ME, 4ME, 5SH
	40K (70 CRI)		9,199	9,017	9,524	7,069	7,262	7,069	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN
	50K (90 CRI)		7,000	7,525	7,950	5,375	5,525	5,375	TBD	TBD
	57K (70 CRI)		9,379	9,174	9,689	7,207	7,404	7,207	N/A	2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN

Field Adjustable Output (Q9/Q8/Q7/Q6/Q5/Q4/Q3/Q2/Q1) Option Description:

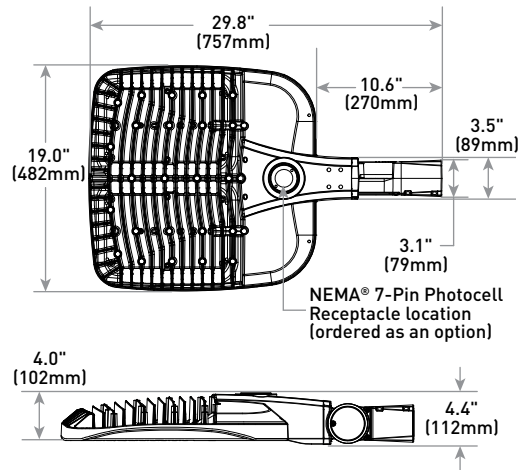
The Field Adjustable Output option enables the OSQ area luminaires to be tuned to the exact needs of a particular application through multiple levels of adjustment. When ordered with the Q option, the luminaire will be shipped from the factory at the selected Q setting and will be fully adjustable between the nine settings.

Q Option Power & Lumen Data – Designator U

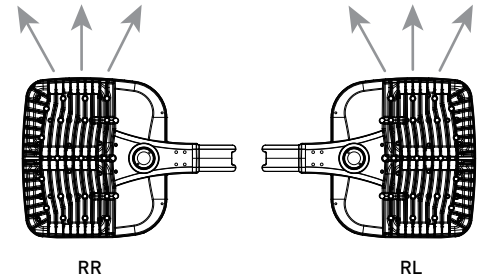
Q Option Setting	CCT/CRI	System Watts	Lumen Values						Optics Qualified on DLC QPL	
		120-480V	Asymmetric	5ME	5SH & Floods	2ME w/BLS	3ME w/BLS	4ME w/BLS	Standard	Premium
Q9 (Full Power)	30K (70 CRI)	202	27,800	26,600	28,100	21,400	21,900	21,400	5ME, 5SH, 15D, 25D, 40D, 60D, WSN	2ME, 3ME, 4ME
	40K (70 CRI)		29,100	27,800	29,400	22,300	23,000	22,300	3ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN	2ME, 4ME
	50K (90 CRI)		22,300	23,600	24,900	17,100	17,600	17,100	TBD	TBD
	57K (70 CRI)		29,100	27,800	29,400	22,300	23,000	22,300	5ME, 5SH, 15D, 25D, 40D, 60D, WSN	2ME, 3ME, 4ME
Q8	30K (70 CRI)	191	27,000	25,800	27,300	20,800	21,200	20,800	5ME, 5SH, 15D, 25D, 40D, 60D, WSN	2ME, 3ME, 4ME
	40K (70 CRI)		28,200	27,000	28,500	21,600	22,300	21,600	3ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN	2ME, 4ME
	50K (90 CRI)		21,600	22,900	24,200	16,600	17,100	16,600	TBD	TBD
	57K (70 CRI)		28,200	27,000	28,500	21,600	22,300	21,600	5ME, 5SH, 15D, 25D, 40D, 60D, WSN	2ME, 3ME, 4ME
Q7	30K (70 CRI)	181	25,600	24,500	25,900	19,700	20,100	19,700	5ME, 5SH, 15D, 25D, 40D, 60D, WSN	2ME, 3ME, 4ME
	40K (70 CRI)		26,800	25,600	27,000	20,500	21,200	20,500	3ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN	2ME, 4ME
	50K (90 CRI)		20,500	21,700	22,900	15,700	16,200	15,700	TBD	TBD
	57K (70 CRI)		26,800	25,600	27,000	20,500	21,200	20,500	5ME, 5SH, 15D, 25D, 40D, 60D, WSN	2ME, 3ME, 4ME
Q6	30K (70 CRI)	173	24,700	23,700	25,000	19,000	19,500	19,000	5ME, 5SH, 15D, 25D, 40D, 60D, WSN	2ME, 3ME, 4ME
	40K (70 CRI)		25,900	24,700	26,200	19,800	20,500	19,800	3ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN	2ME, 4ME
	50K (90 CRI)		19,800	21,000	22,200	15,200	15,700	15,200	TBD	TBD
	57K (70 CRI)		25,900	24,700	26,200	19,800	20,500	19,800	5ME, 5SH, 15D, 25D, 40D, 60D, WSN	2ME, 3ME, 4ME
Q5	30K (70 CRI)	159	22,800	21,800	23,000	17,500	18,000	17,500	5ME, 5SH, 15D, 25D, 40D, 60D, WSN	2ME, 3ME, 4ME
	40K (70 CRI)		23,900	22,800	24,100	18,300	18,900	18,300	3ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN	2ME, 4ME
	50K (90 CRI)		18,300	19,400	20,400	14,025	14,425	14,025	TBD	TBD
	57K (70 CRI)		23,900	22,800	24,100	18,300	18,900	18,300	5ME, 5SH, 15D, 25D, 40D, 60D, WSN	2ME, 3ME, 4ME
Q4	30K (70 CRI)	143	21,100	20,200	21,400	16,300	16,600	16,300	5ME, 5SH, 15D, 25D, 40D, 60D, WSN	2ME, 3ME, 4ME
	40K (70 CRI)		22,100	21,100	22,300	16,900	17,500	16,900	3ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN	2ME, 4ME
	50K (90 CRI)		16,900	17,900	18,900	13,000	13,375	13,000	TBD	TBD
	57K (70 CRI)		22,100	21,100	22,300	16,900	17,500	16,900	5ME, 5SH, 15D, 25D, 40D, 60D, WSN	2ME, 3ME, 4ME
Q3	30K (70 CRI)	128	18,900	18,100	19,100	14,550	14,900	14,550	5ME, 5SH, 15D, 25D, 40D, 60D, WSN	2ME, 3ME, 4ME
	40K (70 CRI)		19,800	18,900	20,000	15,200	15,600	15,200	3ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN	2ME, 4ME
	50K (90 CRI)		15,200	16,000	16,900	11,625	11,975	11,625	TBD	TBD
	57K (70 CRI)		19,800	18,900	20,000	15,200	15,600	15,200	5ME, 5SH, 15D, 25D, 40D, 60D, WSN	2ME, 3ME, 4ME
Q2	30K (70 CRI)	114	17,000	16,200	17,100	13,050	13,350	13,050	5ME, 5SH, 15D, 25D, 40D, 60D, WSN	2ME, 3ME, 4ME
	40K (70 CRI)		17,800	17,000	17,900	13,600	14,025	13,600	3ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN	2ME, 4ME
	50K (90 CRI)		13,600	14,400	15,200	10,425	10,725	10,425	TBD	TBD
	57K (70 CRI)		17,800	17,000	17,900	13,600	14,025	13,600	5ME, 5SH, 15D, 25D, 40D, 60D, WSN	2ME, 3ME, 4ME
Q1	30K (70 CRI)	101	15,300	14,625	15,500	11,775	12,050	11,775	5ME, 5SH, 15D, 25D, 40D, 60D, WSN	2ME, 3ME, 4ME
	40K (70 CRI)		16,000	15,300	16,200	12,275	12,650	12,275	3ME, 5ME, 5SH, 15D, 25D, 40D, 60D, WSN	2ME, 4ME
	50K (90 CRI)		12,275	12,975	13,700	9,400	9,675	9,400	TBD	TBD
	57K (70 CRI)		16,000	15,300	16,200	12,275	12,650	12,275	5ME, 5SH, 15D, 25D, 40D, 60D, WSN	2ME, 3ME, 4ME

OSQ™ LED Area/Flood Luminaire featuring Cree TrueWhite® Technology – Large

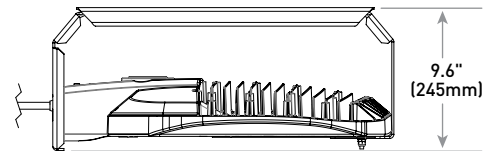
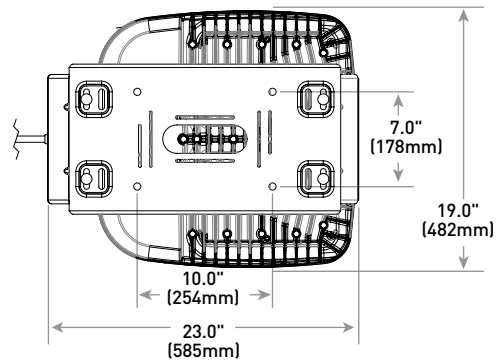
AA Mount



RR/RL Configuration



TSP Mount



TM Mount

