

OSQ Series

OSQ™ High Output LED Area/Flood Luminaire featuring Cree TrueWhite® Technology

Rev. Date: V12 04/14/2020

Product Description

The OSQ™ High Output 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 OSQ high output luminaire is a suitable upgrade for HID applications with one or even multiple 1000 Watt luminaires.

Applications: Auto dealerships, parking lots, campuses, facade lighting, high-mast and general site lighting applications

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 68,691

Efficacy: Up to 125 LPW

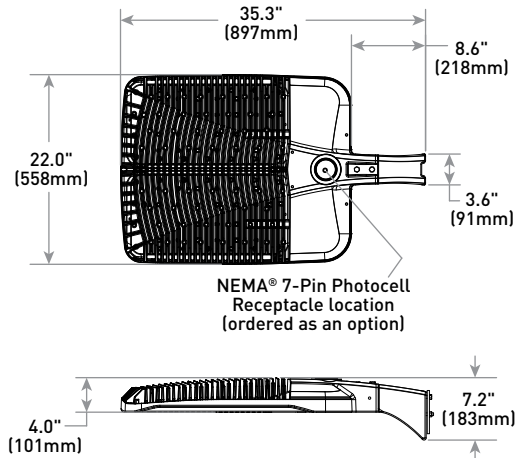
CRI: Minimum 70 CRI (3000K, 4000K & 5700K); 90 CRI (5000K)

CCT: 3000K (+/- 300K), 4000K (+/- 300K), 5000K (+/- 300K), 5700K (+/- 500K)

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



Lumen Package	Voltage	Weight
40/50L	120-480V	70.0 lbs. (31.8kg)
65L	120-480V	72.0 lbs. (32.7kg)

Ordering Information

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

Example: **Mount:** OSQ-HO-AA-SV + **Luminaire:** OSQ-HO-A-NM-2ME-40L-40K-UL-SV

Mount (Luminaire must be ordered separately)								
OSQ-HO-								
OSQ-HO-AA Adjustable Arm						Color Options: SV Silver BK Black BZ Bronze WH White		
OSQ-HO-DA Direct Arm								
Luminaire (Mount must be ordered separately)								
OSQ-HO	A	NM						
Product	Version	Mounting	Optic	Lumen Package**	CCT	Voltage	Color Options	Options
OSQ-HO	A	NM No Mount	Asymmetric	40L 50L 65L	30K 3000K - 70 CRI 40K 4000K - 70 CRI 50K 5000K - 90 CRI 57K 5700K - 70 CRI	UL Universal 120-277V - All lumen packages UH Universal 347-480V - 40L & 50L lumen packages only UM Universal 208-480V - 65L lumen package only	BK Black BZ Bronze SV Silver WH White	PML Programmable Multi-Level, up to 40' Mounting Height - Refer to PML spec sheet for details - Not available with 65L - Intended for downlight applications at 0° tilt Q9/Q8/Q7/Q6/Q5/Q4/Q3/Q2/Q1 Field Adjustable Output - Must select Q9, Q8, Q7, Q6, Q5, Q4, Q3, Q2, or Q1 - Not available with 65L when ordered w/R option - Offers full range adjustability - Refer to pages 14-16 for power and lumen values 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 - 12" (305mm) seven-conductor leads exit luminaire - Requires photocell and shorting cap by others - Not available with 65L when ordered w/Q option
			Symmetric					

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

** Lumen Package selection codes identify approximate light output only. Actual lumen output levels vary depending on CCT and optic selection. Refer to Initial Delivered Lumen tables for specific lumen values



US: creelighting.com (800) 236-6800

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

CREE LIGHTING

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
- Adjustable arm that mounts to a horizontal or vertical 2" (51mm) IP, 2.375-2.50" (60-64mm) O.D. steel tenon. Tenon length must be a minimum of 3.75" (95mm)
- Adjustable arm mount can be adjusted 180° in 5.0° increments
- Includes 12" (305mm) 18/5 or 16/5 leads exiting the luminaire. When ordered with R option, 12" (305mm) 18/7 or 16/7 leads are 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:** See Dimension and Weight Chart on pages 1 and 13

ELECTRICAL SYSTEM

- **Input Voltage:** 120-277V, 208-480V 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. For 65L SKUs with UL voltage, dimming control lines must be >1V when operated at 277V. Controls by others
- Refer to Dimming spec sheet for details
- **Maximum 10V Source Current:** 0.30mA
- **Operating Temperature Range:** -40°C to 40°C (-40° F to 104° F)

REGULATORY & VOLUNTARY QUALIFICATIONS

- cULus Listed
- Suitable for wet locations
- 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
- RoHS compliant. Consult factory for additional details
- DLC and DLC Premium qualified versions available. Some exceptions apply. Please refer to <https://www.designlights.org/search/> for most current information
- OSQ-HO luminaires are enclosure rated IP66 per IEC 60598-1 when ordered without the R option
- Dark Sky Friendly, IDA Approved when ordered with 30K CCT and DA mount 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*							
Lumen Package	System Watts 120-480V	Total Current [A]					
		120V	208V	240V	277V	347V	480V
40L	341	2.93	1.65	1.43	1.23	1.00	0.71
50L	420	3.61	2.03	1.76	1.51	1.23	0.87
65L	550	4.73	2.66	2.30	1.98	1.59	1.15

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

OSQ Series (OSQ-HO) Ambient Adjusted Lumen Maintenance¹

Ambient	Optic	Initial LMF	25K hr Reported ² LMF	50K hr Reported ² LMF	75K hr Reported ² LMF	100K hr Reported ² LMF
5°C (41°F)	Asymmetric	1.04	1.03	1.01	0.99	0.97
	Symmetric	1.05	1.04	1.03	1.03	1.02
10°C (50°F)	Asymmetric	1.03	1.02	1.00	0.98	0.96
	Symmetric	1.04	1.03	1.02	1.01	1.00
15°C (59°F)	Asymmetric	1.02	1.01	0.99	0.97	0.95
	Symmetric	1.02	1.02	1.01	1.00	0.99
20°C (68°F)	Asymmetric	1.01	1.00	0.98	0.96	0.94
	Symmetric	1.01	1.01	1.00	0.99	0.98
25°C (77°F)	Asymmetric	1.00	0.99	0.97	0.95	0.93
	Symmetric	1.00	0.99	0.98	0.98	0.97

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.

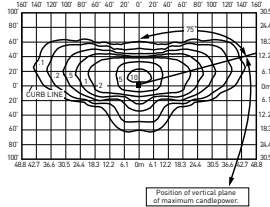
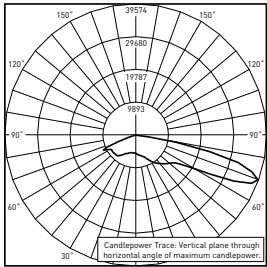
Accessories

Field-Installed		
Backlight Shield (One pair) OSQ-HO-BLSF - Front facing optics OSQ-HO-BLSR - Rotated optics	Shorting Cap XA-XSLSHRT	Hand-Held Remote XA-SENSREM - For successful implementation of the programmable multi-level option, a minimum of one hand-held remote is required
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 Central Base Station CBSW-450-002 - Includes On-Site Controller (SS450-002) and 5-button switch - Indoor and Outdoor rated	SimplySNAP On-Site Controller SS450-002 - Verizon® LTE-enabled - Designed for indoor applications - Refer to SS450-002 spec sheet for details
Synapse Wireless Sensor WSN-DPM - Motion and light sensor - Control multiple zones - Refer to WSN-DPM spec sheet for details		Building Management System (BMS) Gateway BMS-GW-002 - Required for BACnet integration - Refer to BMS-GW-002 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 - Refer to Outdoor antenna spec sheet for details

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/area-osq-high-output>

2ME



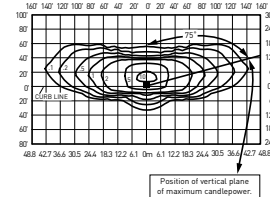
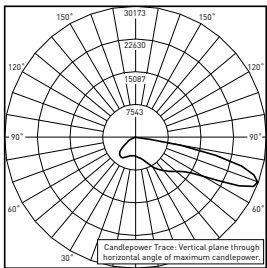
CESTL Test Report #: PL10951-001A
OSQ-HO-A--2ME-40L-40K-UL**
Initial Delivered Lumens: 45,012

OSQ-HO-A--2ME-40L-40K-UL**
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 41,880
Initial FC at grade

Type II Medium Distribution								
Lumen Package	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
40L	39,751	B4 U0 G4	41,880	B4 U0 G5	33,920	B4 U0 G4	42,702	B4 U0 G5
50L	48,950	B4 U0 G5	51,571	B4 U0 G5	41,434	B4 U0 G5	52,583	B4 U0 G5
65L	63,945	B5 U0 G5	67,369	B5 U0 G5	53,848	B4 U0 G5	68,691	B5 U0 G5

* 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 #: PL10952-001A
OSQ-HO-A--2ME-40L-40K-UL**
w/OSQ-HO-BLSF
Initial Delivered Lumens: 35,531

OSQ-HO-A--2ME-40L-40K-UL**
w/OSQ-HO-BLSF
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 33,504
Initial FC at grade

Type II Medium w/BLS Distribution								
Lumen Package	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
40L	31,801	B3 U0 G4	33,504	B3 U0 G4	27,136	B3 U0 G4	34,162	B3 U0 G4
50L	39,160	B3 U0 G4	41,257	B3 U0 G5	33,147	B3 U0 G4	42,066	B3 U0 G5
65L	51,156	B3 U0 G5	53,895	B3 U0 G5	43,078	B3 U0 G5	54,953	B3 U0 G5

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

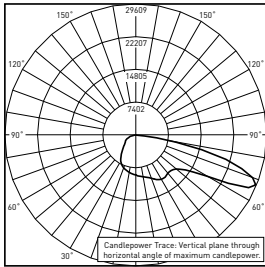
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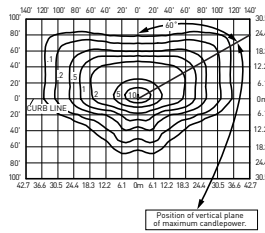
Photometry

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3ME



CESTL Test Report #: PL10953-001A
OSQ-HO-A-**-3ME-40L-40K-UL
Initial Delivered Lumens: 44,770

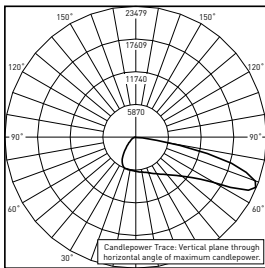


OSQ-HO-A-**-3ME-40L-40K-UL
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 41,880
Initial FC at grade

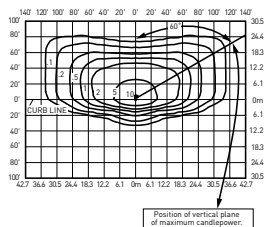
Type III Medium Distribution								
Lumen Package	3000K/70 CRI		4000K/70 CRI		5000K/90 CRI		5700K/70 CRI	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
40L	39,751	B4 U0 G5	41,880	B4 U0 G5	33,920	B4 U0 G4	42,702	B4 U0 G5
50L	48,950	B4 U0 G5	51,571	B4 U0 G5	41,434	B4 U0 G5	52,583	B4 U0 G5
65L	63,945	B4 U0 G5	67,369	B5 U0 G5	53,848	B4 U0 G5	68,691	B5 U0 G5

* 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 #: PL10954-001A
OSQ-HO-A-**-3ME-40L-40K-UL
w/OSQ-HO-BLSF
Initial Delivered Lumens: 32,977



OSQ-HO-A-**-3ME-40L-40K-UL
w/OSQ-HO-BLSF
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 34,342
Initial FC at grade

Type III Medium w/BLS Distribution								
Lumen Package	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
40L	32,596	B3 U0 G4	34,342	B3 U0 G5	27,814	B3 U0 G4	35,016	B3 U0 G5
50L	40,139	B3 U0 G5	42,288	B4 U0 G5	33,976	B3 U0 G5	43,118	B4 U0 G5
65L	52,435	B4 U0 G5	55,243	B4 U0 G5	44,155	B4 U0 G5	56,327	B4 U0 G5

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

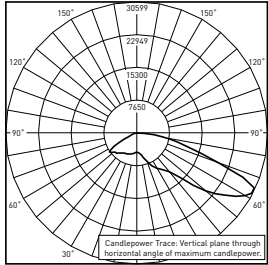
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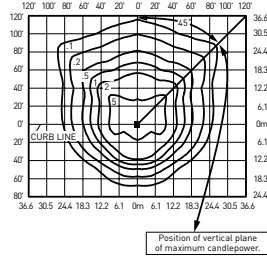
Photometry

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4ME



CESTL Test Report #: PL09256-001A
OSQ-HO-A-**-4ME-40L-40K-UL
Initial Delivered Lumens: 44,936

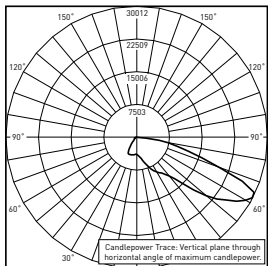


OSQ-HO-A-**-4ME-40L-40K-UL
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 41,880
Initial FC at grade

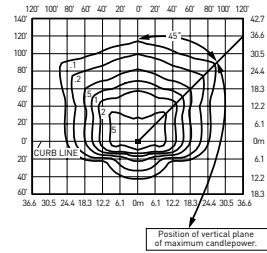
Type IV Medium Distribution								
Lumen Package	3000K/70 CRI		4000K/70 CRI		5000K/90 CRI		5700K/70 CRI	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
40L	39,751	B4 U0 G4	41,880	B5 U0 G4	33,920	B4 U0 G4	42,702	B5 U0 G4
50L	48,950	B5 U0 G5	51,571	B5 U0 G5	41,434	B4 U0 G4	52,583	B5 U0 G5
65L	63,945	B5 U0 G5	67,369	B5 U0 G5	53,848	B5 U0 G5	68,691	B5 U0 G5

* 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 #: PL09256-002A
OSQ-HO-A-**-4ME-40L-40K-UL
w/OSQ-HO-BLSF
Initial Delivered Lumens: 35,406



OSQ-HO-A-**-4ME-40L-40K-UL
w/OSQ-HO-BLSF
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 33,085
Initial FC at grade

Type IV Medium w/BLS Distribution								
Lumen Package	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
40L	31,403	B3 U0 G4	33,085	B3 U0 G4	26,797	B3 U0 G4	33,735	B3 U0 G4
50L	38,671	B3 U0 G5	40,741	B3 U0 G5	32,733	B3 U0 G4	41,541	B3 U0 G5
65L	50,517	B4 U0 G5	53,222	B4 U0 G5	42,540	B3 U0 G5	54,266	B4 U0 G5

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

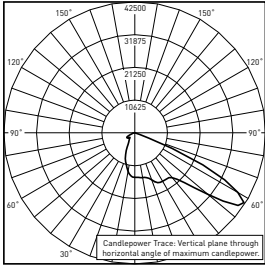
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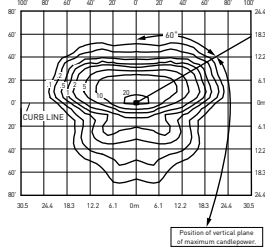
Photometry

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AF



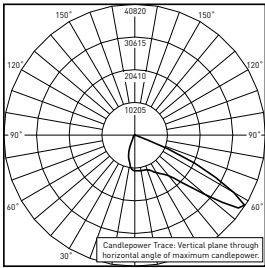
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OSQ-HO-A-**-AF-40L-40K-UL
Initial Delivered Lumens: 44,921



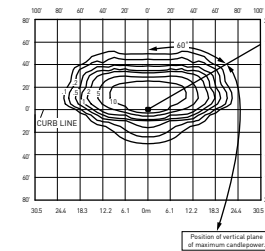
OSQ-HO-A-**-AF-40L-40K-UL
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 41,880
Initial FC at grade

Automotive FrontLineOptic™ Distribution								
Lumen Package	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
40L	39,751	B4 U0 G3	41,880	B4 U0 G3	33,920	B3 U0 G3	42,702	B4 U0 G3
50L	48,950	B4 U0 G3	51,571	B4 U0 G3	41,434	B4 U0 G3	52,583	B4 U0 G3
65L	63,945	B4 U0 G4	67,369	B4 U0 G4	53,848	B4 U0 G3	68,691	B4 U0 G4

* 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 #: PL10911-001A
OSQ-HO-A-**-AF-40L-40K-UL
w/OSQ-HO-BLSF
Initial Delivered Lumens: 35,558



OSQ-HO-A-**-AF-40L-40K-UL
w/OSQ-HO-BLSF
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 33,151
Initial FC at grade

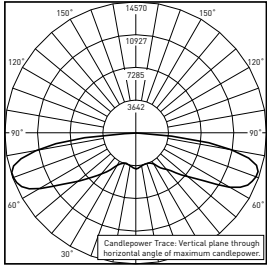
Automotive FrontLineOptic™ w/BLS Distribution								
Lumen Package	3000K/70 CRI		4000K/70 CRI		5000K/90 CRI		5700K/70 CRI	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
40L	31,466	B3 U0 G2	33,151	B3 U0 G2	26,850	B3 U0 G2	33,802	B3 U0 G2
50L	38,747	B3 U0 G2	40,822	B3 U0 G3	32,798	B3 U0 G2	41,623	B3 U0 G3
65L	50,617	B4 U0 G3	53,327	B4 U0 G3	42,625	B3 U0 G3	54,374	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: <https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>. Valid with no tilt

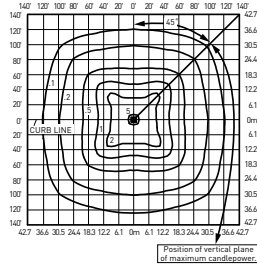
Photometry

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/area-osq-high-output>

5ME



CESTL Test Report #: PL09257-001A
OSQ-HO-A--5ME-40L-40K-UL**
Initial Delivered Lumens: 35,159



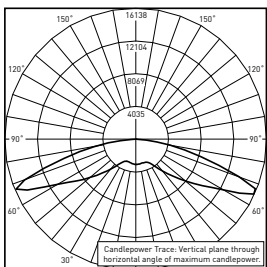
OSQ-HO-A--5ME-40L-40K-UL**
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 39,332
Initial FC at grade

Type V Medium Distribution								
Lumen Package	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
40L	37,169	B5 U0 G5	39,332	B5 U0 G5	31,689	B5 U0 G5	40,155	B5 U0 G5
50L	45,389	B5 U0 G5	48,031	B5 U0 G5	38,871	B5 U0 G5	49,035	B5 U0 G5
65L	59,011	B5 U0 G5	62,445	B5 U0 G5	49,959	B5 U0 G5	63,751	B5 U0 G5

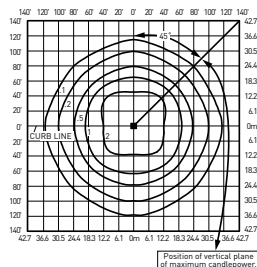
* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

** 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

5SH



CESTL Test Report #: PL09258-001A
OSQ-HO-A--5SH-40L-40K-UL**
Initial Delivered Lumens: 42,362



OSQ-HO-A--5SH-40L-40K-UL**
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 41,542
Initial FC at grade

Type V Short Distribution								
Lumen Package	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
40L	39,258	B5 U0 G5	41,542	B5 U0 G5	33,469	B5 U0 G5	42,411	B5 U0 G5
50L	47,939	B5 U0 G5	50,729	B5 U0 G5	41,055	B5 U0 G5	51,790	B5 U0 G5
65L	62,326	B5 U0 G5	65,953	B5 U0 G5	52,766	B5 U0 G5	67,332	B5 U0 G5

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

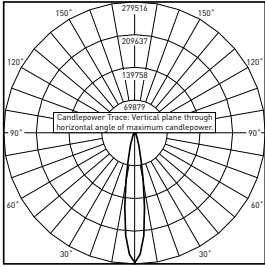
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: <https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>. Valid with no tilt

OSQ™ High Output LED Area/Flood Luminaire featuring Cree TrueWhite® Technology

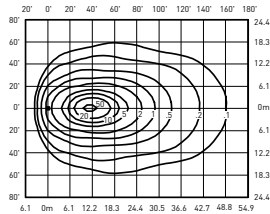
Photometry

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/area-osq-high-output>

15D



CESTL Test Report #: PL09259-001A
 OSQ-HO-A**-15D-40L-40K-UL
 Initial Delivered Lumens: 43,172

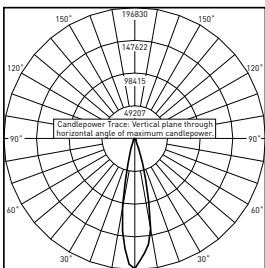


OSQ-HO-A**-15D-40L-40K-UL
 Mounting Height: 25' (7.6m) A.F.G., 60° Tilt
 Initial Delivered Lumens: 41,542
 Initial FC at grade

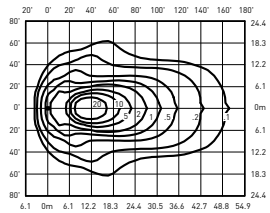
15° Flood Distribution				
Lumen Package	3000K/70 CRI	4000K/70 CRI	5000K/90 CRI	5700K/70 CRI
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
40L	39,258	41,542	33,469	42,411
50L	47,939	50,729	41,055	51,790
65L	62,326	65,953	52,766	67,332

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

25D



CESTL Test Report #: PL09260-001A
 OSQ-HO-A**-25D-40L-40K-UL
 Initial Delivered Lumens: 43,263



OSQ-HO-A**-25D-40L-40K-UL
 Mounting Height: 25' (7.6m) A.F.G., 60° Tilt
 Initial Delivered Lumens: 41,542
 Initial FC at grade

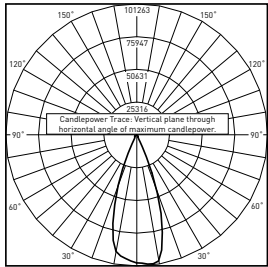
25° Flood Distribution				
Lumen Package	3000K/70 CRI	4000K/70 CRI	5000K/90 CRI	5700K/70 CRI
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
40L	39,258	41,542	33,469	42,411
50L	47,939	50,729	41,055	51,790
65L	62,326	65,953	52,766	67,332

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

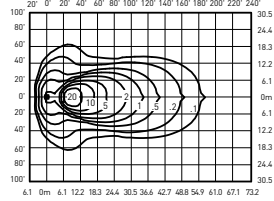
Photometry

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/area-osq-high-output>

40D



CESTL Test Report #: PL09261-001A
OSQ-HO-A-**-40D-40L-40K-UL
Initial Delivered Lumens: 43,698

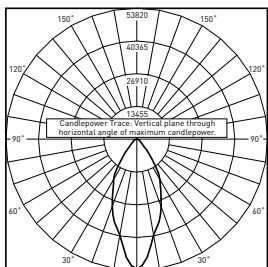


OSQ-HO-A-**-40D-40L-40K-UL
Mounting Height: 25' (7.6m) A.F.G., 60° Tilt
Initial Delivered Lumens: 41,542
Initial FC at grade

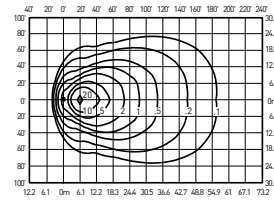
40° Flood Distribution				
Lumen Package	3000K/70 CRI	4000K/70 CRI	5000K/90 CRI	5700K/70 CRI
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
40L	39,258	41,542	33,469	42,411
50L	47,939	50,729	41,055	51,790
65L	62,326	65,953	52,766	67,332

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

60D



CESTL Test Report #: PL09262-001A
OSQ-HO-A-**-60D-40L-40K-UL
Initial Delivered Lumens: 42,715



OSQ-HO-A-**-60D-40L-40K-UL
Mounting Height: 25' (7.6m) A.F.G., 60° Tilt
Initial Delivered Lumens: 41,542
Initial FC at grade

60° Flood Distribution				
Lumen Package	3000K/70 CRI	4000K/70 CRI	5000K/90 CRI	5700K/70 CRI
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
40L	39,258	41,542	33,469	42,411
50L	47,939	50,729	41,055	51,790
65L	62,326	65,953	52,766	67,332

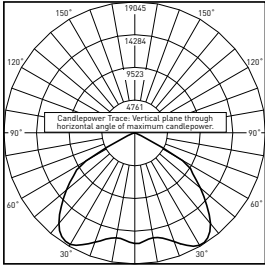
* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

OSQ™ High Output LED Area/Flood Luminaire featuring Cree TrueWhite® Technology

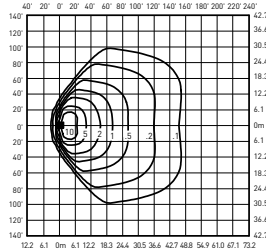
Photometry

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/area-osq-high-output>

120D



CESTL Test Report #: PL09725-001A
OSQ-HO-A**-120D-40L-40K-UL
Initial Delivered Lumens: 43,044

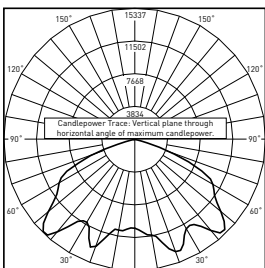


OSQ-HO-A**-120D-40L-40K-UL
Mounting Height: 25' (7.6m) A.F.G., 60° Tilt
Initial Delivered Lumens: 41,542
Initial FC at grade

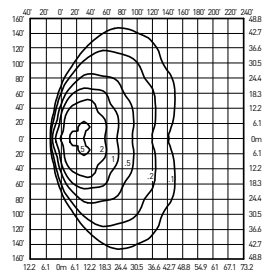
120° Flood Distribution				
Lumen Package	3000K/70 CRI	4000K/70 CRI	5000K/90 CRI	5700K/70 CRI
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
40L	39,258	41,542	33,469	42,411
50L	47,939	50,729	41,055	51,790
65L	62,326	65,953	52,766	67,332

* 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











OSQ-HO-A**-WSN-40L-40K-UL
Mounting Height: 25' (7.6m) A.F.G., 60° tilt
Initial Delivered Lumens: 41,542
Initial FC at grade

Wide Sign Distribution				
Lumen Package	3000K/70 CRI	4000K/70 CRI	5000K/90 CRI	5700K/70 CRI
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
40L	39,258	41,542	33,469	42,411
50L	47,939	50,729	41,055	51,790
65L	62,326	65,953	52,766	67,332

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

Luminaire EPA

Adjustable Arm Mount – OSQ-HO-AA Weight: 40L/50L, 120-480V: 73.0 lbs. (33.1kg); 65L, 120-480V: 75.0 lbs. (34.0kg)							
Single	2 @ 180°	2 @ 90°	3 @ 90°	3 @ 120°	3 @ 180°	4 @ 180°	4 @ 90°
Tenon Configuration [0°-90° Tilt]; If used with Cree Lighting tenons, please add tenon EPA with Luminaire EPA							
							
PB-1A*; PW-1A3**	PB-2A*; PB-2R2.375; PW-2A3**	PB-2A*; PB-2R2.375; PW-2A3**	PB-3A*; PB-3R2.375	PB-3A*; PB-3R2.375	PB-3A*; PB-3R2.375	PB-4A*(180); PB-4R2.375	PB-4A*(90); PB-4R2.3(90)
0° Tilt							
1.16	2.03	2.03	2.90	2.63	2.90	3.77	3.77
10° Tilt							
1.67	3.06	3.06	4.45	4.27	4.45	5.83	5.83
20° Tilt							
2.35	4.41	4.41	6.48	6.34	6.48	8.54	8.54
30° Tilt							
2.99	5.70	5.70	8.41	8.29	8.41	11.12	11.12
45° Tilt							
3.85	7.41	7.41	10.98	10.89	10.98	14.54	14.54
60° Tilt							
4.51	8.73	8.73	12.95	12.91	12.95	17.18	17.18
70° Tilt							
4.83	9.37	9.37	13.91	13.88	13.91	18.45	18.45
80° Tilt							
5.02	9.76	9.76	14.50	14.44	14.50	19.24	19.24
90° Tilt							
5.02	9.76	9.76	14.50	14.44	14.50	19.24	19.24

* 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
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")

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
Wall Mount Brackets - Mounts to wall or roof WM-2 – Horizontal for OSQ-HO-AA mount WM-4 – L-Shape for OSQ-HO-AA mount WM-DM – Plate for OSQ-HO-DA mount	Mid-Pole Bracket - Mounts to square pole PW-1A3** – Single PW-2A3** – Double

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

Luminaire EPA

Fixed Arm Mount – OSQ-HO-DA Weight: 40L/50L, 120-480V: 70.0 lbs. (31.8kg); 65L, 120-480V: 72.0 lbs. (32.7kg)					
Single	2 @ 180°	2 @ 90°	3 @ 90°	3 @ 120°	4 @ 90°
1.06	1.93	1.93	2.80	2.53	3.67

Direct Mount Configurations

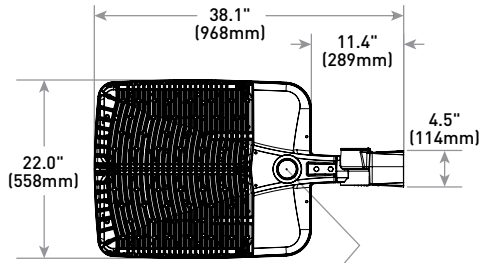
Compatibility with OSQ-HO-DA Direct Arm Mount					
Input Delivered Lumens	2 @ 90°	2 @ 180°	3 @ 90°	3 @ 120°	4 @ 90°
3" Square					
40L/50L/65L	N/A	✓	N/A	N/A	N/A
3" Round					
40L/50L/65L	N/A	✓	N/A	✓	N/A
4" Square					
40L/50L/65L	✓	✓	✓	N/A	✓
4" Round*					
40L/50L/65L	✓	✓	✓	✓	✓
5" Square					
40L/50L/65L	✓	✓	✓	N/A	✓
5" Round					
40L/50L/65L	✓	✓	✓	✓	✓
6" + Square					
40L/50L/65L	✓	✓	✓	N/A	✓
6" + Round					
40L/50L/65L	✓	✓	✓	✓	✓

* Note: only 0.10" clearance between mounts on 4 @ 90°

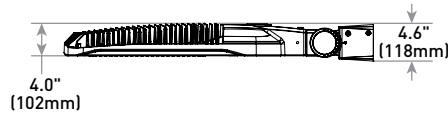
AA Mount



Lumen Package	Voltage	Weight
40/50L	120-480V	73.0 lbs. (33.1kg)
65L	120-480V	75.0 lbs. (34.0kg)



NEMA® 7-Pin Photocell Receptacle location (ordered as an option)



RR/RL Configuration

