

# OSQ Series

OSQ™ LED Billboard Luminaire featuring Cree TrueWhite® Technology – Medium

Rev. Date: V2 05/04/2021

## Product Description

The OSQ™ billboard luminaire combines high performance, low maintenance and ease of installation in a cost effective package for the outdoor advertising market. Cree Lighting's patented NanoOptic® Precision Delivery Grid™ optic provides high illumination and superior uniformity on the board, apron and extensions. Cree's TrueWhite® Technology provides superior color rendering for clarity, vividness and contrast of the billboard image resulting in increased visual impact while saving up to half of the energy of traditional metal halide technology.

**Application:** Billboards

## Performance Summary

Utilizes Cree TrueWhite® Technology

NanoOptic® Precision Delivery Grid™ optic

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

**CRI:** 90 CRI

**CCT:** 5000K

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

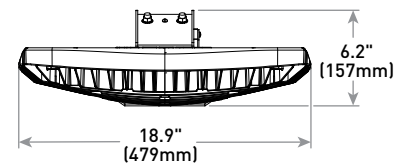
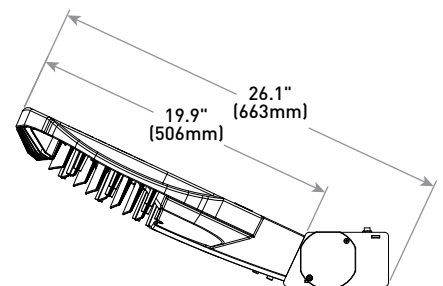
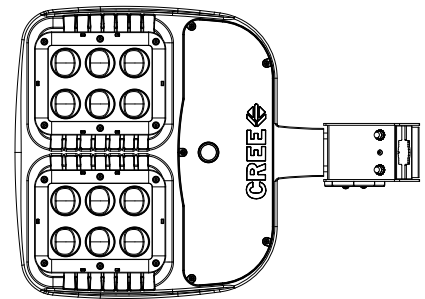
\*See <http://creelighting.com/warranty> for warranty terms

## Ordering Information

Fully assembled luminaire is composed of two components that must be ordered separately:  
Example: **Mount:** OSQ-F25SV + **Luminaire:** OSQM-B-16L-50K9-75-UL-NM-SV-BB

Mount (Luminaire must be ordered separately)	
OSQ-F25	
OSQ-F25 25° Fixed	<b>Color Options:</b> BK Black BZ Bronze SV Silver WH White

Luminaire (Mount must be ordered separately)									
OSQ	M	B	16L	50K9	75	UL	NM		BB
Family	Size	Series	Lumen Package	CCT/CRI	Optic	Voltage	Mount	Color Options	Options
OSQ	M Medium	B	16L 16,000 Lumens	50K9 5000K, 90 CRI	75 NEMA® 7x5	UL Universal 120- 277V	NM No Mount	BK Black BZ Bronze SV Silver WH White	BB Billboard



Weight
26.5 lbs. (12kg)



US: [creelighting.com](http://creelighting.com) (800) 236-6800

Canada: [creelighting-canada.com](http://creelighting-canada.com) (800) 473-1234



## OSQ™ LED Billboard Luminaire – Medium

### 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
- Carbon steel mounting arm is fixed at 25 degrees, and mounts to 1.5" (38mm) square or 1.66" (42mm) O.D. round tubing
- Mounting arm serves as junction box
- Designed for uplight applications only
- Exclusive Colorfast DeltaGuard® finish features an E-Coat epoxy primer with an ultra-durable powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion. Silver, bronze, black, and white are available
- **Weight:** 26.5 lbs. (12kg)

#### ELECTRICAL SYSTEM

- **Input Voltage:** 120-277V, 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
- OSQ billboard luminaires are enclosure rated IP66 per IEC 60598-1
- Certified to ANSI C136.31-2001, 1.5G normal vibration standards
- 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

Electrical Data*					
Lumen Package	System Watts 120-277V	Total Current (A)			
		120V	208V	240V	277V
16L	104	0.89	0.51	0.43	0.39

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

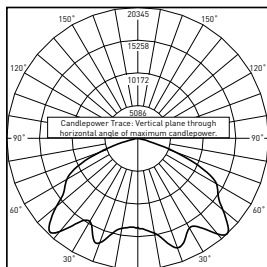
OSQ™ LED Billboard Ambient Adjusted Lumen Maintenance <sup>1</sup>						
Ambient	Optic	Initial LMF	25K hr Reported <sup>2</sup> LMF	50K hr Reported <sup>2</sup> LMF	75K hr Reported <sup>2</sup> LMF	100K hr Reported <sup>2</sup> LMF
5°C (41°F)	Symmetric	1.05	1.04	1.03	1.03	1.02
10°C (50°F)	Symmetric	1.04	1.03	1.02	1.01	1.00
15°C (59°F)	Symmetric	1.02	1.02	1.01	1.00	0.99
20°C (68°F)	Symmetric	1.01	1.01	1.00	0.99	0.98
25°C (77°F)	Symmetric	1.00	0.99	0.98	0.98	0.97

<sup>1</sup> 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.

<sup>2</sup> 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.

### Photometry

All published luminaire photometric testing performed to IES LM-79-08 standards.



CESTL Test Report #: PL16063-001A  
OSQL-B-30L-40K7-75-UL-xx-xx-xx-xx  
Initial Delivered Lumens: 29,997

NEMA® 7x5 Distribution	
Lumen Package	5000K (90CRI)
	Initial Delivered Lumens*
16L	13,675

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

© 2021 Cree Lighting, A company of IDEAL INDUSTRIES. All rights reserved. For informational purposes only. Content is subject to change. Patent [www.creeighting.com/patents](http://www.creeighting.com/patents). Cree®, the Cree Lighting logo, TrueWhite®, Cree TrueWhite®, and the Cree TrueWhite Technology logo are registered trademarks of Cree, Inc. NanoOptic® and Colorfast DeltaGuard® are registered trademarks, and Precision Delivery Grid™ and OSQ™ are trademarks of Cree Lighting, A company of IDEAL INDUSTRIES. The UL logo is a registered trademark of UL LLC. NEMA® is a registered trademark of the National Electrical Manufacturers Association.

US: [creeighting.com](http://creeighting.com) (800) 236-6800  
Canada: [creeighting-canada.com](http://creeighting-canada.com) (800) 473-1234

**CREE** ⇄ **LIGHTING**

A COMPANY OF IDEAL INDUSTRIES, INC.