OSQ SERIES
LED SPECIFICATION-GRaDE AREA LUMINAIRE

Ready to turn your lighting poles into money trees.
OSQ Series LED Area Luminaire

ADVANCING LIGHT THROUGHOUT YOUR SITE.

EXCEPTIONAL LIGHT QUALITY
Without precise optical control high output lighting can be wasteful, or worse, objectionable to neighboring properties. Utilizing our NanoOptic® Technology, the OSQ Series has the right optics to effectively meet the illumination needs of projects while minimizing waste and spill light.

ENERGY SAVINGS
The next generation of area lighting surpasses traditional lighting technology with market-leading optical performance and an extensive lifetime, leading to energy savings of up to 80 percent compared to HID.

INCREASING OPPORTUNITIES
We continue to advance LED lighting solutions that outperform our first generation of luminaires. The OSQ Series High Output can now deliver up to 68,691 lumens — improving our replacement range for applications using multiple 1000W HID.
TECHNOLOGY WITH PROVEN PERFORMANCE.

Cree is the originator of today’s LED lighting technology and is 100 percent committed to the continued advancement of solid state lighting. That’s why we strive to find ways to continuously improve our products and offer more value to our customers. We know there are a lot of great opportunities to use LED lighting in outdoor applications, and finding the right lighting solution to fit your needs is our business.

NanoOptic® Technology
With patented NanoOptic® Technology available in more than 20 distributions, Cree® outdoor LED fixtures provide precise optical control for exceptional application performance and energy savings. The NanoOptic® refractor system offers superior light control with more lumens delivered in the target area, improved uniformity ratios and controlled high-angle brightness.

Cree TrueWhite® Technology
Available with the OSQ High Output luminaire (5000K):
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. Colors show truer, spaces are brighter and significant energy savings are real.

Colorfast DeltaGuard® Finish

Premium Protection Against the Elements
Our 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. Backed by a 10-year limited finish warranty, the OSQ Series LED area luminaire will look great long after the competition fades away.

Salt Fog Test Results
The same 3mm thickness of powder topcoat was applied to each of the four pole section samples (shown left), which were then scored and exposed to a salt fog test for 2,500 hours. The results are clear — our Colorfast DeltaGuard finish stood up to the test, proving our ability to protect your investment even in the most grueling conditions.

Visit lighting.cree.com to learn more.
OPTICS YOU CAN COUNT ON.

Traditional luminaire technologies offer limited optical selections. With our patented NanoOptic® Technology, the choices keep coming. We have highly-efficient optics available in multiple distributions to provide new possibilities for highly-optimized target illumination performance and the flexibility you need to achieve the specific illumination requirements for each unique application.

Multiple Optic Choices for the Flexibility You Need

- Type II Medium (2ME)
- Type III Medium (3ME)
- Type IV Medium (4ME)
- Type V Medium (5ME)
- Type V Short (5SH)
- Automotive Frontline™ (AF)
- 120° Flood (120D)
- Wide Sign (WSN)

This graphic representation illustrates the LED optical fine-tuning range that Cree can provide. The gray area represents Type V Short optic coverage used to comply with more stringent light spill and high angle brightness specifications or codes by incorporating a lower main beam. The extended blue area indicates the Type V Medium optic coverage that uses a slightly higher main beam to allow wider, more economical pole spacing.
TIMELESS DESIGN WITH THE TECHNOLOGY OF THE FUTURE.

Cree blends architectural aesthetics, rugged mechanics and optimal performance together for a well-rounded area lighting solution.

NanoOptic® Precision Delivery Grid™ optics efficiently deliver light where you need it, not where you don’t. Innovation in LED and optical technologies allows the OSQ Series to deliver unmatched target efficacy, and the lowest total cost of ownership compared to previous generations of Cree LED Area Lights.

Our exclusive Colorfast DeltaGuard® finish features an industry-leading 10-year warranty. The housing goes through six cleaning stages, eight pretreatment stages and an epoxy e-coat before the baked on, ultra-durable powder topcoat is applied.
Pressure control vent prevents moisture and liquid from entering the luminaire

Passive thermal management approach utilizes a flow through heat sink to efficiently draw heat away from the LED chip package, maximizing performance and reliability.

Access Door allows for quick and easy access to feed wire during installation.
**SEEKING BETTER LIGHT**

The OSQ Series blends extreme optical control, advanced thermal management and light quality to bring you the latest advancements in LED technology. And we didn’t stop there — we added a clean, modern housing and versatile mounting options all with an attractive price point. Whether you have a new construction or upgrade application, the OSQ Series is perfect for parking lots, internal roadways and general site lighting.

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### PRODUCT SUMMARY
- **Efficacy:** Up to 139 LPW
- **NanoOptic® Precision Delivery Grid™ optic**
- **Made in the U.S.A. of U.S. and imported parts**

| Limited Warranty | 10 years on luminaire/10 years on Colorfast DeltaGuard® finish |

### 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
- Adjustable arm that mounts to a horizontal or vertical 2” (51mm) IP, 2.375-2.50” (60-64mm) D.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 13.4” (340mm) 18/5 or 16/5 leads exiting the luminaire. When ordered with R option, 13.4” (340mm) 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.

### ACCESSORIES
- **Backlight Shield**
  - Designed to control backlight - put the light where you want it and not where you don’t.

- **Bird Spikes**
  - Designed to prevent birds from landing or setting up a nest on the luminaire.

- **Hand-Held Remote**
  - For successful implementation of the programmable multi-level option, a minimum of one hand-held remote is required. OSQ Medium and Large only.

### 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**
- **10V Source Current:** 0.15mA; 0.30mA (OSQ-HO)

### REGULATORY & VOLUNTARY QUALIFICATIONS
- **cULus Listed (65L pending)**
- **Suitable for wet locations**
- **Consult factory for CE Certified products**
- **Certified to ANSI C136.31-2001, 3G bridge and overpass vibration standards**
- **10kV surge suppression protection tested in accordance with IEEE/ANSI C62.41.2**
- **Luminaire and finish endurance tested to withstand 5,000 hours of elevated ambient salt fog conditions as defined in ASTM Standard B 117**
- **Meets Buy American requirements within ARRA**
- **DLC and DLC Premium qualified versions available. Some exceptions apply.**
- **Enclosure rated IP66 per IEC 60598-1 when ordered without the R option**

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*Please refer to [www.designlights.org/QPL](http://www.designlights.org/QPL) for most current information.
†For complete details on Cree 10-year limited warranty go to [lighting.cree.com/warranty](http://lighting.cree.com/warranty)
Product specifications subject to change at any time. Visit [lighting.cree.com](http://lighting.cree.com) to find the most up-to-date information.
### OSQ Medium
**Up to 400W HID Replacement**

- **Dimensions:**
  - Direct Arm: L: 25” (635mm) / W: 19” (482mm) / H: 4.8” (122mm)
  - Adjustable Arm: L: 29.8” (757mm) / W: 19” (482mm) / H: 3.8” (97mm)

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

- **Weight:** 26.5 lbs. (12kg)

- **Replaces up to:** 250W HID (‘B’ input power designator); 400W HID (‘K’ input power designator)

### OSQ Large
**Up to 1000W HID Replacement**

- **Dimensions:**
  - Direct Arm: L: 27.2” (691mm) / W: 19” (482mm) / H: 4.8” (122mm)
  - Adjustable Arm: L: 29.8” (757mm) / W: 19” (482mm) / H: 3.8” (97mm)

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

- **Weight:** 28.5 lbs. (13kg)

- **Replaces up to:** 750W HID (‘T’ input power designator); 1000W HID (‘U’ input power designator)

### Ordering Information

**Mount** (Luminaire must be ordered separately)

<table>
<thead>
<tr>
<th>Product</th>
<th>Color Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>OSQ-AA</td>
<td>Adjustable Arm, SV Silver, BK Black, BZ Bronze, WH White</td>
</tr>
<tr>
<td>OSQ-DA</td>
<td>Direct Arm, SV Silver, BK Black, BZ Bronze, WH White</td>
</tr>
</tbody>
</table>

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

### Performance Summary

- **Initial Delivered Lumens:** Up to 17,291 lumens
- **Input Power:** 86 watts; 130 watts
- **Color Rendering Index (CRI):** Minimum 70 CRI (4000K & 5700K; 3000K asymmetric optics); 80 CRI (3000K symmetric optics)
- **Dimensions:**
  - Direct Arm: L: 25” (635mm) / W: 19” (482mm) / H: 4.8” (122mm)
  - Adjustable Arm: L: 29.8” (757mm) / W: 19” (482mm) / H: 3.8” (97mm)
- **CCT:** 3000K (+/- 300K), 4000K (+/- 300K), 5700K (+/- 500K)
- **Weight:** 26.5 lbs. (12kg)

- **Replaces up to:** 250W HID (‘B’ input power designator); 400W HID (‘K’ input power designator)

### Product Specifications

- **Mounting Options:**
  - Asymmetric, Symmetric
  - Type II Medium, Type III Medium, Type IV Medium
  - 55H Type V Short, Wide Sign, 15D 15˚ Flood, 25D 25˚ Flood, 40D 40˚ Flood, 60D 60˚ Flood

- **Input Power Designator:**
  - B 86W, K 130W, T 164W, U 215W

- **CCT Options:**
  - 30K 3000K, 40K 4000K, 57K 5700K

- **Voltage Options:**
  - UL Universal 120-277V, UH Universal 347-480V

- **Color Options:**
  - BK Black, F Fusion, ML Multi-Level, PML Programmable Multi-Level, 20-40’ Mounting Height, PML2 Programmable Multi-Level, 10-30’ Mounting Height, QY Field Adjustable Output

- **Options:**
  - R NEMA® Photocell Receptacle, RL Rotate Left, RR Rotate Right

- **Input Power:**
  - 166 watts; 215 watts

- **Color Rendering Index (CRI):** Minimum 70 CRI (4000K & 5700K; 3000K asymmetric optics); 80 CRI (3000K symmetric optics)

- **Dimensions:**
  - Direct Arm: L: 27.2” (691mm) / W: 19” (482mm) / H: 4.8” (122mm)
  - Adjustable Arm: L: 29.8” (757mm) / W: 19” (482mm) / H: 3.8” (97mm)

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

- **Weight:** 28.5 lbs. (13kg)

- **Replaces up to:** 750W HID (‘T’ input power designator); 1000W HID (‘U’ input power designator)

Product specifications subject to change at any time. Visit lighting.cree.com to find the most up-to-date information.
OSQ HIGH OUTPUT
MULTIPLE 1000W HID REPLACEMENT

PERFORMANCE SUMMARY

Utilizes Cree TrueWhite® Technology on 5000K Luminaires

Initial Delivered Lumens: Up to 68,691 lumens

Input Power: Up to 550 watts; 341W; 420W or 550W

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

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

Dimensions:
Direct Arm: L: 35.3" (897mm) / W: 22" (558mm) / H: 7.2" (183mm)
Adjustable Arm: L: 38.1" (968mm) / W: 22" (558mm) / H: 4.6" (118mm)

Weight: DA Mount: 67.5 lbs. (30.6kg); AA Mount: 70.9 lbs. (32.2kg)

Replaces: Multiple 1000W HID

APPLICATIONS

Parking
Whether you’re trying to attract business or simply want to create a safe and secure environment, well lit parking lots are extremely important and offer significant savings. The OSQ Series delivers energy savings up to 80 percent when compared to HID lights — a dramatic improvement to both parking lots and pocketbooks.

Internal Roadway
With uniform targeted illumination, the OSQ luminaire minds its own business by directing light only where it’s needed and provides precise cut-off where it isn’t. Equipped with advanced optical control, the luminaire reduces light pollution and minimizes wasted energy.

Flood
Bathe your outdoor façades and signage in crisp, uniform white light that creates an impressive and inviting space. With remarkable color quality and smooth white light, buildings will stand out in the crowd.

High Mast
Extreme mounting heights leads to higher costs in maintenance. Avoid unnecessary relamping with our OSQ-HO luminaires that are built to last. Compared to other area lighting options, the OSQ-HO is smaller and lighter, making it easier to install with existing high mast rings. Oh, and we have a 10 year limited warranty.

Automotive
Attract customers with an outdoor showcase that leads to a better shopping experience. Available with Cree TrueWhite® Technology and utilizing our FrontlineOptic™, the OSQ™ High Output delivers exceptional color quality (90CRI) to the frontline — ensuring true-to-life paint colors are on full display.

ORDERING INFORMATION


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<td>OSQ-HO-DA</td>
<td>BK Black</td>
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<td></td>
<td>BZ Bronze</td>
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<td></td>
<td>WH White</td>
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Luminaire [Mount must be ordered separately]

<table>
<thead>
<tr>
<th>Product</th>
<th>Version</th>
<th>Mounting</th>
<th>Optic</th>
<th>Lumen Package</th>
<th>CCT</th>
<th>Voltage</th>
<th>Color Options</th>
<th>Options</th>
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<tbody>
<tr>
<td>OSQ-HO</td>
<td>A</td>
<td>NM No Mount</td>
<td>Asymmetric</td>
<td>40L 50L 65L</td>
<td>30K 3000K 40K 4000K 50K 5000K</td>
<td>120-277V</td>
<td>BK Black</td>
<td>F Fuse</td>
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<td>Type II Medium 3ME Type III Medium 4ME Type IV Medium AF Automotive FrontlineOptic™ Symmetric 5ME Type V Medium SSM Type V Short WSN Wide Sign 15D 15° Flood 25D 25° Flood 40D 40° Flood 60D 60° Flood 120D 120° Flood</td>
<td>Universal</td>
<td>347-480V Universal 208-480V</td>
<td>BK Black</td>
<td>RR Rotate Right</td>
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