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# LIGHTING

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# THE LED

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# REVOLUTION<sup>®</sup>

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## PRODUCT GUIDE

A portfolio of industry leading solutions that are changing the way we look at light.



## LED RECESSED DOWNLIGHTS

Cree® LED downlights deliver beautiful light with superior color quality and high energy efficiency—a true no-compromise solution.



### Essentia® Series

- Equivalent up to 70W CMH
- 4", 6" and 8" round and square apertures
- NanoOptic® Technology
- 45° shield angle
- Multiple CCTs at 90 CRI
- Standard 0-10V dimming control
- Available in 120V or 277V



### SR Series

- Equivalent up to Twin 26W CFL
- 6" aperture with wall wash options
- Light Source-Reflector Unity™ Design
- Up to 45° shield angle
- Multiple CCTs at over 90 CRI
- Standard 0-10V dimming control
- Available in 120V or 277V



### KR Series

- Equivalent up to 26W CFL
- 6" aperture with spun-aluminum reflectors
- Up to 970 lumens at 18W
- Multiple CCTs at 90 CRI
- Dimmable to 5% (120V)
- Available in 120V or 277V



### LR4™

- Equivalent up to 50W Incandescent
- 4" aperture with spun-aluminum reflectors
- Up to 540 lumens at 10.5W
- Multiple CCTs at 90 CRI
- Dimmable to 20%
- Available in 120V only



### LR Series

- Equivalent up to 32W CFL
- 6" aperture with multiple reflector depths
- Leading efficacy at 90 LPW
- Up to 1000 lumens at 11W
- Multiple CCTs at 90 CRI
- Dimmable to 5% (1000 lm, 120V)\*
- Available in 120V or 277V



### CR Series

- Equivalent up to 23W CFL
- 4" and 6" round apertures\*\*
- Easy retrofit, fits most existing housings
- Up to 800 lumens at 12W
- 2700 CCT at 90 CRI
- Dimmable to 5%
- Available in 120V only



## LED SURFACE DOWNLIGHTS

Proven Cree® performance and longevity are available in stylish architectural surface luminaires for even more aesthetic appeal.



### Essentia® Cylinder

- Equivalent up to 100W CMH
- Surface, pendant, cable or wall-mount options
- NanoOptic® Technology
- Deep 45° shield angle
- Standard 0-10V dimming control
- Available in 120V or 277V



### SC6 Mounting

- Designed for use with LR and CR Series 6" downlights
- Surface, cable or wall-mount options
- Textured white or black finish
- Standard 0-10V dimming control
- Available in 120V or 277V

Please reference [www.cree.com/lighting](http://www.cree.com/lighting) for all dimmer and housing compatibility information.

\*Enhanced dimming available in 1000 lm (120V) beginning June 2012. Dimmable to 20% in current 1000 lm and 650 lm (120V) versions.

\*\*4" version available in June 2012.



## LED TROFFER & LINEAR LUMINAIRES

Built for both performance and payback, Cree® LED commercial fixtures prove that energy-efficient, high quality lighting doesn't have to come at a premium.

### CR Series

- Equivalent to architectural fluorescent
- 90 CRI at 3000K, 3500K or 4000K
- Step Level to 50%, 0-10V Dimming to 5%
- Available as Light Engine only (CR-LE)



### CR22™ & CR-LE 1x2

- 2000 lumens, 22W (90 LPW)
- 3200 lumens, 35W (90 LPW)

### CR24™, CR14™, & CR-LE 1X4

- 2200 lumens, 22W (100 LPW)
- 3100 lumens, 34W (90 LPW)
- 4000 lumens, 44W (90 LPW)
- 4000 lumens, 36W (110 LPW)
- 5000 lumens, 50W (100 LPW)



### CS Series

- Equivalent to 2-Lamp T8 Industrial
- 90 CRI at 3500K or 4000K
- Universal 120V-277V driver
- Dimmable to 5%

#### CS18™

- 8000 lumens, 70W (115 LPW)
- 7500 lumens, 75W (100 LPW)

#### CS14™

- 4000 lumens, 35W (115 LPW)
- 4500 lumens, 40W (100 LPW)



### LR24™

- Equivalent to 3 lamp 2'x2' parabolic
- 3200 lumens, 44W
- 3200 lumens, 32W (120V)
- 3800 lumens, 52W
- Universal 120V-277V driver
- 90 CRI at 3500K
- 0-10V Dimming to 5%



## LED LAMPS

Soft accents or dramatic highlights—Cree® LED lamps offer design freedom with the proven light quality of Cree TrueWhite® Technology.



### LRP-38™

- Equivalent to 75W PAR38
- 600 lumens, 12W, 120V
- 94 CRI at 2700K
- 4800 CBCP, 20° beam angle
- Dimmable to 20%



### LBR-30™

- Equivalent to 60W BR30
- 600 lumens, 12W, 120V
- 94 CRI at 2700K
- 25° and 50° beam angles
- Dimmable to 20%



### LRP38-10L

- Equivalent to 90W Halogen
- 1000 lumens, 13.5W (3000K)
- 950 lumens, 13.5W (2700K)
- 92 CRI
- 12° and 25° beam angles
- Dimmable to 20%



## LED AREA LIGHTS

Diverse lighting options featuring BetaLED® Technology for parking lots, roadways, pathways, security areas and flood applications.



### Aeroblades™

- Modular design – 2, 4 or 6 blade configurations
- Die-cast aluminum housing assembly
- UL wet listed 0-10V
- Dimming option



### THE EDGE® Square

- Low profile modular design
- Die-cast, aluminum housing assembly
- UL wet listed
- Two-level options
- Optional backlight cutoff shield



### THE EDGE® Round

- Low profile modular design
- Die-cast aluminum housing assembly
- UL wet listed 0-10V
- Two-level options
- Optional backlight cutoff shield



### THE EDGE® Pathway

- Rugged aluminum housing
- Multiple height options
- UL wet listed
- Two-level options



### THE EDGE® Security

- Low profile modular design
- Die-cast, aluminum housing assembly
- UL wet listed



### SLM-IP66

- Linear single light module
- Up to 60 LEDs
- Step and continuous dimming options
- Vertical or horizontal tenon
- Direct-arm mount



### THE EDGE® High Output

- Up to 65,000 delivered lumens
- Available in 120 or 240 LED configurations
- 525mA; 700mA; or 1 amp drive currents
- 4000K or 5700K color temperature



## LED STREET LIGHTS

Cree® Street Lights with BetaLED® Technology provide high-performance and energy efficient street lighting solutions for street and roadway applications.



### XSP1™

- NanoOptic® Precision Delivery Grid™ Optics
- Single module
- Horizontal tenon mount
- Optional backlight control shield
- CRI: minimum 70 CRI
- CCT: 4000K (+/- 300K), 5700K (+/- 500K)



### XSP2™

- NanoOptic® Precision Delivery Grid™ Optics
- Double module
- Horizontal tenon mount
- Optional backlight control shield
- CRI: minimum 70 CRI
- CCT: 4000K (+/- 300K), 5700K (+/- 500K)



### LEDway®

- More than 20 optical distributions
- Flexible drive currents
- Up to 120 LEDs in 10 LED increments
- Tool-less entry
- Multiple mounting options



### LEDway SLM™

- Sleek, low-profile form factor
- Drive current flexibility
- Tool-less entry
- Surge suppression rated up to 10 KV
- ±5° vertical adjustment in 5° increments



### LEDway SLM™ IP66

- Tool-less entry
- Surge suppression rated up to 10 KV
- ±5° vertical adjustment with 2 ½° Steps
- Modular design
- Die-cast and extruded-aluminum housing
- UL, cUL



### Traditional Post-Top LED Upgrade Kit

- Seamlessly transform existing inefficient post-top luminaires to energy reducing LED
- Precise LED controllability for optimized application performance
- Easy installation
- 4000K and 2700K color temperatures



## LED TUNNEL LIGHTS

Visibility and safety for vehicular and pedestrian traffic can increase dramatically with Cree® tunnel luminaires designed for bridges, overpasses, roadways and tunnels.



### **THE EDGE® TSP Transportation Mount**

- Multiple mounting options
- Two-level options
- Through-wiring capability
- UL and cUL Listed



## LED PARKING STRUCTURE LIGHTS

For new construction or upgrades, achieve a clean, updated appearance with Cree® parking structure luminaires that provide superior illumination while using less energy than traditional fixtures.



### **THE EDGE® Parking Structure**

- Low profile modular design
- Rugged aluminum housing
- Integrated occupancy sensor
- UL wet listed
- Two-level options



### **304 Series™ Parking Structure**

- Low profile modular design
- Multiple mounting options
- Integrated occupancy sensor
- Two-level options
- Through-wiring capability



## LED FLOOD/SIGN LIGHTS

Cree® luminaires for flood and sign lighting provide specific distributions of light for showcasing horizontal and vertical sign surfaces and architectural features.



### THE EDGE® Flood

- Low profile modular design
- Rugged aluminum housing
- UL wet listed
- Adjustable mounting bracket
- 15-, 25- and 40-degree optics



### OL Series™

- 360° adjustability in 5° increments
- 2, 4 and 8 foot lengths - 7 or 14 LEDs per foot
- Step- and continuous-dimming
- 5700K, options at 3500K and 4000K



## LED CANOPY/SOFFIT LIGHTS

Cree® Canopy and Soffit lighting provide a sustainable high-performance lighting solutions for exterior canopy applications and building soffits.



### THE EDGE® Canopy

- Low profile modular design
- Die-cast, extruded-aluminum housing assembly
- UL wet listed



### 227 Series™ Canopy/Soffit

- Low profile modular design
- Die-cast, extruded-aluminum housing assembly
- UL wet listed
- Two-level options
- Optional backlight cutoff shield



### 304 Series™ Canopy/Soffit

- Centrally located driver provides ease of installation and through-wiring (daisy chaining luminaires).
- Convenient electrical inspection access from below the luminaire (desirable in recessed installations).
- Die-cast, extruded-aluminum housing assembly
- UL wet listed

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**TRUE WHITE**

TECHNOLOGY

## LIGHTING WITHOUT COMPROMISE

Choose award-winning Cree TrueWhite® Technology, which delivers bright, beautiful light while providing significant energy savings compared to incumbent products. A true no-compromise solution that provides:

### EXCEPTIONAL LIGHT QUALITY

Delivers superior color accuracy (CRI≥90) with beautiful light characteristics and consistent color temperature.

### EQUAL LIGHT OUTPUT USING LESS ENERGY

Produces light output equal to incumbent products while saving consumers up to 85% in energy costs.

### LOW MAINTENANCE

Designed to last 50,000 hours while maintaining color consistency over the life of the product.

### INSTANT ON AND DIMMING

Lights up instantly to full brightness and is dimming capable.

### QUICK PAYBACK

Offers savings up front and in operation to deliver the shortest paybacks on the market.



## PROVEN PERFORMANCE

BetaLED® Technology helps Cree deliver outstanding illumination, lasting performance and optimum energy efficiency for LED lighting solutions.

### TOTAL SYSTEMS APPROACH

A comprehensive engineering philosophy that combines the most advanced LED sources, driver technologies, optics and form into each product.

### NanoOptic® TECHNOLOGY

A level of optical control that traditional light source technology cannot provide with over 20 highly efficient optical choices for the flexibility you need.

### THERMAL MANAGEMENT

Heat sinks efficiently draw heat away from the LED chip package within a vented housing, maximizing both performance and reliability.

Learn more at [www.cree.com/lighting](http://www.cree.com/lighting)

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