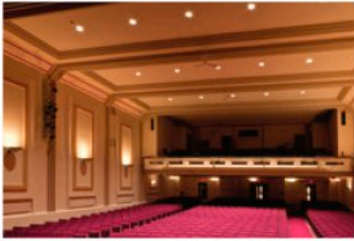




2016 LED LIGHTING PRODUCT GUIDE

1ST EDITION

CREE  TM



LED ARCHITECTURAL DOWNLIGHTS

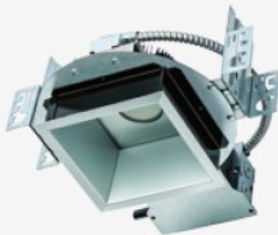
Cree® LED architectural downlights allow designers to meet interior lighting performance specifications while achieving beautiful color consistency.

KR Series

- Minimum 90 CRI
- CCT: 2700K, 3000K, 3500K or 4000K
- Up to 8000 lumens
- Utilizes Cree TrueWhite® Technology
- 4" or 6" round and square apertures with Sunset dimming from 2700K to 1800K, and SmartCast® Technology
- 8" round with WaveMax™ Technology for precise optical control
- Controls/Dimming: Triac, 0-10V



KR8™



KR6™ Square



KR6™ Round



New

CREE ⇄

WAVEMAX™ TECHNOLOGY

CREE ⇄

SMARTCAST™ TECHNOLOGY



ESA Series Surface Cylinder

- Minimum 80 CRI
- CCT: 2700K, 3000K, 3500K or 4000K
- NanoOptic® Technology for precise optical control
- 0-10V dimming
- Multiple light distributions available

ESA Series Recessed

- Minimum 80 CRI
- CCT: 2700K, 3000K, 3500K or 4000K
- NanoOptic® Technology for precise optical control
- 0-10V dimming
- Available as downlight, adjustable and lensed wall wash





LED DOWNLIGHTS

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

LR Series

- Minimum 90 CRI
- CCT: 2700K, 3500K or 4000K
- 650, 1050 or 1800 lumens
- Utilizes Cree TrueWhite® Technology
- Shallow and deep recess options
- Continuous dimming to 5%
(120V-forward phase; 277V trailing edge)



CR Series (CR4™ / CR6™)

- Minimum 90 CRI
- CCT: 2700K, 3000K, 3500K or 4000K
- 575, 625 or 800 lumens
- Utilizes Cree TrueWhite® Technology
- 4" and 6" sizes
- Dimmable with Triac dimmers at 120V



DR Series (DR4™ / DR6™)

- Minimum 90 CRI
- CCT: 2700K
- 575 or 625 lumens
- Utilizes Cree TrueWhite® Technology
- 4" and 6" sizes
- Dimmable to 5% with most incandescent dimmers



LED TROFFERS

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.



LR Series Troffers

- High efficacy of 100 LPW
- CCT: 3500K or 4000K
- 3400 lumens
- Utilizes Cree TrueWhite® Technology (90 CRI)
- 0-10V dimming to 5%



SmartCast® Technology optional



New

CR Series Troffers

- High efficacy of 90 - 130 LPW
- CCT: 3000K, 3500K, 4000K, 5000K or adjustable CCT
- 2000 to 5000 lumens (High Efficacy 130 LPW)
- Utilizes Cree TrueWhite® Technology (90 CRI) or available in 80+ CRI
- Available with Cree SmartCast® Technology; step level to 50%, 0-10V dimming to 5% or Lutron EcoSystem® Enabled to 5%

CREE

SMARTCAST® TECHNOLOGY



SmartCast® Technology optional

ZR Series Troffers

- High efficacy of 90 - 110 LPW
- Minimum 90 CRI
- CCT: 3500K, 4000K or 5000K*
- 3200 to 5000 lumen options
- Utilizes Cree TrueWhite® Technology or available in 80+ CRI**
- 0-10V dimming to 5% standard, SmartCast® Technology optional

CREE

SMARTCAST® TECHNOLOGY

* Only available on 50L types

** Only available on 50L 40K or 50L 50K types



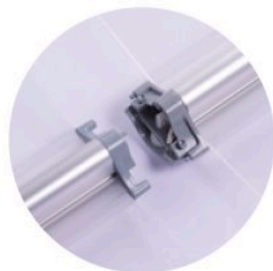
LED SUSPENDED AMBIENT

Cree's suspended ambient indirect/direct luminaire gives architects an adaptable and supremely high-functioning light system with a super-modern, low-profile look at an appealing price point.



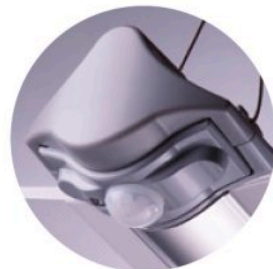
LN Series

- High efficacy of 110 LPW
- CCT: 3500K or 4000K
- 3400 lumens
- Utilizes WaveMax™ Technology
- Utilizes Cree TrueWhite® Technology (90 CRI)
- 0-10V dimming to 5% or Cree SmartCast® Technology



Interlocking Units

With the LN Series, design and installation are simpler, faster and more cost-effective thanks to a unique modular light engine and increased energy savings from integral SmartCast® Technology lighting controls.



*SmartCast® Technology
Ambient/Motion Sensor*

CREE 
SMARTCAST® TECHNOLOGY



LED SURFACE AMBIENT

Cree® surface ambient fixtures provide exceptional illumination performance, cost-effective lighting and are designed for easy installation to save time and money.



*Suspended mount
with optional
reflectors*



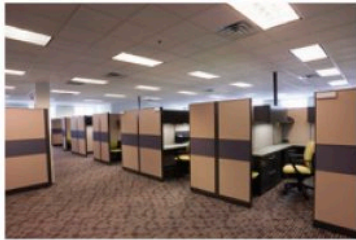
LS Series

- 90+ CRI
- Utilizes Cree TrueWhite® Technology
- CCT: 3500K, 4000K or 5000K
- 4' and 8' sizes
- 2500, 4000 and 5000 lumens for 4'
- 8000 and 10,000 lumens for 8'
- 0-10V dimming to 5%
- Solid and apertured (6% uplight) reflectors available



WS Series

- Minimum 80 CRI
- CCT: 3500K, 4000K, 5000K or 5700K
- 4700, 5000, 5900 and 6300 lumens
- 0-10V dimming to 5% (standard)
- IP65 rated
- UL wet listed

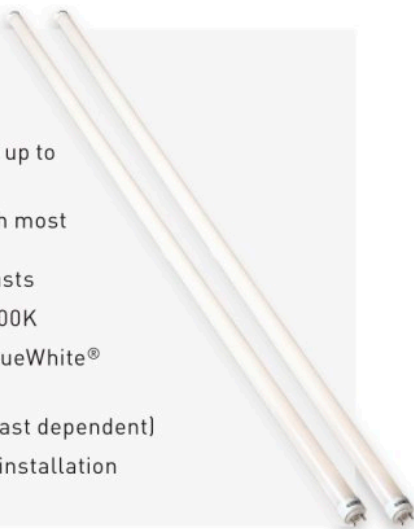


LED UPGRADE SOLUTIONS

Cree® LED upgrade solutions offer customers the ability to maintain the existing aesthetic of a fluorescent fixture but take advantage of the greater energy efficiency and long lifespan of LED lights.

T8 Series

- 90 CRI
- High efficacy of up to 110 LPW
- Compatible with most T8 fluorescent electronic ballasts
- CCT: 3500K, 4000K
- Utilizes Cree TrueWhite® Technology
- Dimmable (ballast dependent)
- Simple relamp installation



UR Series LED Upgrade Kit

- 80 CRI
- CCT: 3500K or 4000K
- 3600 lumens for 2' lightbar kit
- 4500 lumens for 4' lightbar kit
- Step level to 50% or 0-10V dimming to 5%
- Available in 2 or 3 lamp options
- Up to 102 LPW



LED HIGH-BAY/LOW-BAY

Cree® interior high-bay and low-bay lighting is the ideal source for energy-efficient, low-maintenance illumination in large spaces.

Cree Edge™ Series High Output

- 70 CRI (4000K & 5700K); 90 CRI (5000K)
- CCT: 5700K standard, 5000K, 4000K
- Lumen packages available up to 73,000 lumens
- Utilizes Cree TrueWhite® Technology on 5000K luminaires
- 0-10V dimming to 5%



CXB Series

- 18,000 and 24,000 median lumens
- Up to 113 LPW
- CCT: 4000K, 5000K
- 80 CRI
- Low-profile, lightweight design
- Flexible mounting choices
- 0-10V dimming standard
- Multi-Level option



LS Series

- 90+ CRI
- Utilizes Cree TrueWhite® Technology
- CCT: 3500K, 4000K or 5000K
- 4' and 8' sizes
- 2500, 4000 and 5000 lumens for 4'
- 8000 and 10,000 lumens for 8'
- 0-10V dimming to 5%
- Solid and apertured (6% uplight) reflectors available



CS Series

- Minimum 90 CRI
- CCT: 3500K or 4000K
- 2200 to 8000 lumens
- Utilizes Cree TrueWhite® Technology
- Available with Cree SmartCast® Technology; 0-10V dimming to 5%



CREE 
SMARTCAST™ TECHNOLOGY

304 Series™

- Minimum 70 CRI
- CCT: 4000K or 5700K
- UL wet listed
- Multi-Level options
- IC rated and non-IC rated available
- Modular, low-profile design





LED LAMPS & ACCENTS

Soft accents or dramatic highlights — Cree® LED lamps offer design freedom with beautiful, high-impact illumination for every lamp application.

A19 Series

- 40 & 60 watt equivalent (4Flow™) or 75 watt equivalent (A19)
- 460 to 1100 lumens
- 6, 10, or 13.5 watts
- 80 CRI or 83 CRI (4Flow™)
- 2700K or 5000K
- Dimmable to 5% with most standard dimmers
- Suitable for damp locations



A21 Series

- 100 watt equivalent
- 1600 lumens
- 18 watts
- 80 CRI
- 2700K or 5000K
- Dimmable to 5% with most standard dimmers
- Suitable for damp locations



A21 3-Way Lamp

- 30/60/100 watt equivalent
- 320/820/1620 lumens
- 3/8/18 watts
- 80 CRI
- 2700K
- For use in three-way fixtures (non-dimmable)
- Suitable for damp locations



PAR38 Series

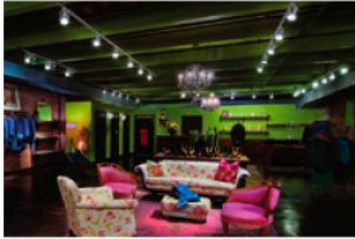
- 90 watt equivalent
- 1500 lumens
- 16.5 watts at 3000K
- 18 watts at 2700K
- 80 CRI
- 27° and 47° beam angles
- Dimmable to 5% with most standard dimmers



PAR30 Series

- 75 watt equivalent
- 850 lumens
- 10.5 watts
- 90 CRI
- CCT: 3000K
- Dimmable to 5% with most standard dimmers
- Multiple beam spread angles: 25° spot, 40° flood





LED LAMPS & ACCENTS

Cree® LED bulbs deliver beautiful bright light with high color fidelity to enhance any space.

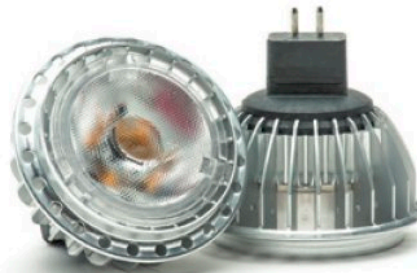
BR Series

- 65 watt equivalent
- 9 watts (BR30); 9.5 watts (BR40)
- 80 CRI
- 2700K or 5000K
- Suitable for damp locations
- Dimmable to 5% with most standard dimmers



MR16 Series

- 50 watt MR16 equivalent
- 8.7 watts
- 90 CRI
- CCT: 3000K
- 15°, 25° and 40° beam angles
- Dimmable to 5%



LRP Series & LBR Series

- 75 watt PAR38 equivalent (LRP 10L)
- 60 watt BR30 equivalent (LBR Series)
- 12 - 13.5 watts
- Up to 94 CRI at 2700K
- Utilizes Cree TrueWhite® Technology
- 12°, 20°, 25° beam angles (LRP Series)
- 25° or 50° beam angles (LBR-30)
- Dimmable to 20% with ELV dimmers



CREE SMARTCAST® TECHNOLOGY

What if you could easily transform your existing educational facilities into energy-efficient spaces with automated intelligence to optimize light levels.

With Cree SmartCast® Technology, we've totally redefined intelligent lighting by making it so intuitive and simple, it just works — for you and for everyone who experiences it.

Within each SmartCast® enabled luminaire, integrated sensors, cutting-edge electronics and software all work together using the language of light and intelligent algorithms to automatically learn and interact with each other and with your space.

The result is a seamless application of scalable intelligent light strategies that can save you up to 70% in energy costs while delivering more comfortable, personalized lighting experiences.

And if you're ready to connect to the Internet of Things (IoT), SmartCast® Technology offers an open, scalable platform that works seamlessly with smart building applications to amplify savings and further optimize environments, delivering even more value.

The best part: All of this is employed with OneButton™ Setup, enabling an entire building to be commissioned and connected at one time.



CREE 
SMARTCAST® TECHNOLOGY

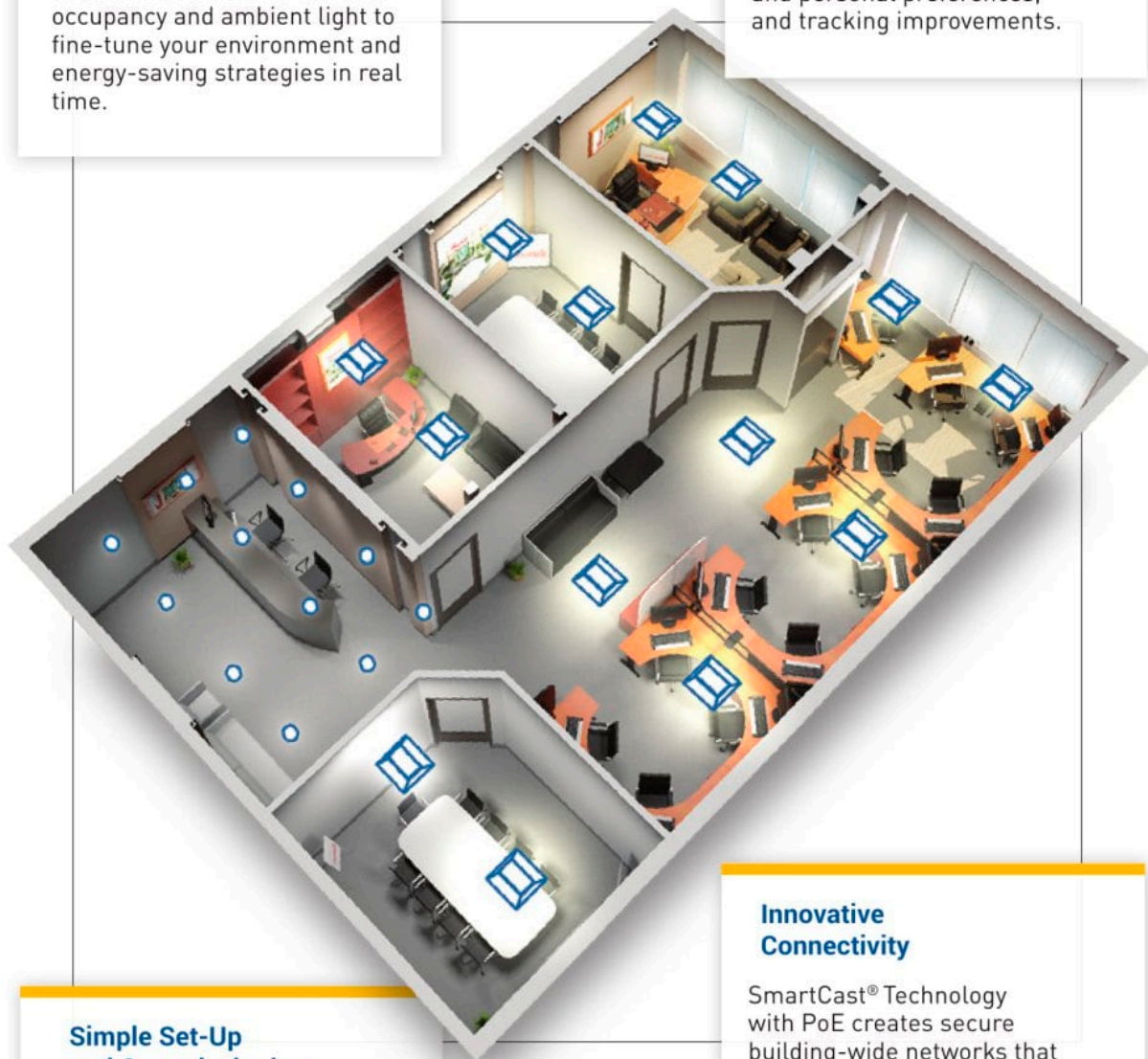
So Easy, the Building of the Future Can Be the One You're Already In.

Environmental Awareness and Control

Embedded sensors continually detect and share data on room occupancy and ambient light to fine-tune your environment and energy-saving strategies in real time.

An OS for Intelligent Lighting

SmartCast® Technology orchestrates the optimal environment for energy efficiency and productivity by setting parameters for brightness and color, adjusting color temperatures to tasks and personal preferences, and tracking improvements.



Simple Set-Up and Commissioning

OneButton™ Setup commissions up to 1,000 luminaires in a single step, providing smart lighting that meets existing and emerging buildings codes, wirelessly and over Power over Ethernet (PoE) — live in minutes, not weeks.

Innovative Connectivity

SmartCast® Technology with PoE creates secure building-wide networks that connect seamlessly with other building management systems and with the cloud, for even more value.



LED CONTROLS

Cree® digital control options offer intelligent, fully-integrated solutions that deliver performance and savings from your entire lighting system.

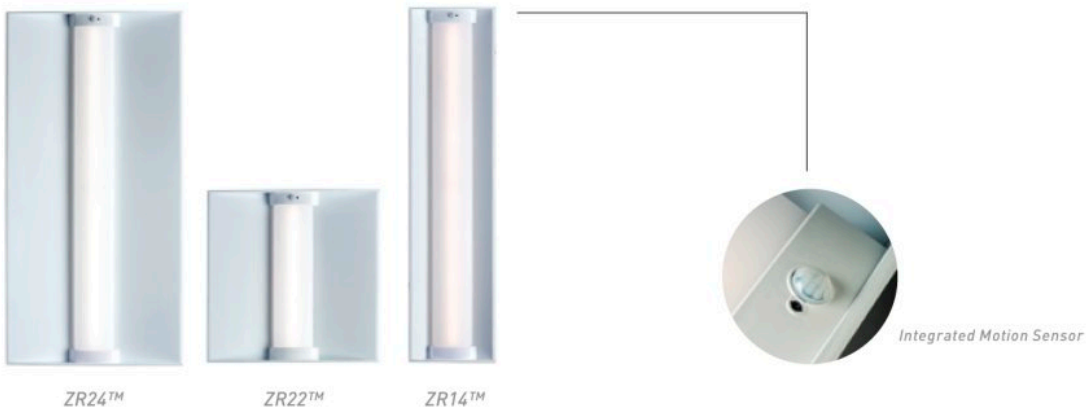
Cree SmartCast® Technology Products

CREE 
SMARTCAST® TECHNOLOGY

CR Series Architectural Troffers

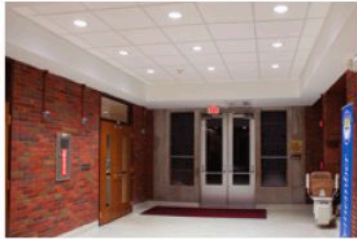


ZR Series Commercial Spec Troffers



LN Series Suspended Ambient Indirect/Direct





LED CONTROLS

Cree® digital control options offer intelligent, fully-integrated solutions that deliver performance and savings from your entire lighting system.

Cree SmartCast® Technology Products



KR Series Downlights

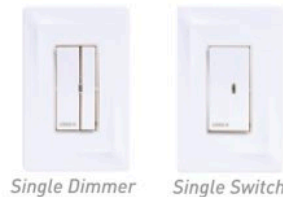


CS Series Linear Luminaires



Dimmers and Switches

Wireless dimmers or switches provide manual control of Cree luminaires with SmartCast® Technology.



0-10V Interface

Cree wireless 0-10V Interface with SmartCast® Technology enables control of 0-10V dimmable luminaires by other SmartCast® Technology devices.



Configuration Tool

Cree Configuration Tool with SmartCast® Technology is used to set up and configure SmartCast® Technology-enabled devices.

Lutron EcoSystem® Enabled

Lutron EcoSystem® Enabled Cree LED luminaires are designed with an intelligent, pre-tested microprocessor directly integrated into the Cree LED driver, eliminating the need for additional interfaces and enabling the fixture and controls to communicate directly with each other for instant and seamless interoperability.

- Fully-integrated solution
- Compatible with CR Series troffers
- Enables continuous dimming
- Robust set of control capabilities





LED AREA

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

OSQ Series (Medium & Large)

- Minimum 70 CRI (4000K & 5700K); 80 CRI (3000K)
- CCT: 3000K, 4000K, 5700K
- Versatile mounting
- NanoOptic® Precision Delivery Grid™ optic
- Multi-Level options



XSP Series

- Minimum 80 CRI for 3000K; 70 CRI for 4000K and 5700K
- CCT: 3000K, 4000K, 5700K
- NanoOptic® Precision Delivery Grid™ optic
- Single or double modules
- cULus listed
- Suitable for wet locations
- Designed with 0-10V dimming capabilities



Cree Edge™ Series Pole-Mounted

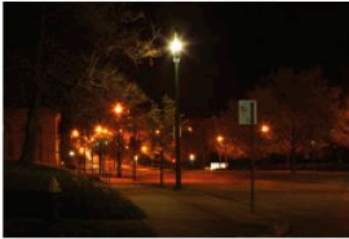
- Minimum 70 CRI (4000K & 5700K); 90 CRI (5000K)
- CCT: 4000K, 5000K, 5700K
- UL wet listed
- Multi-Level options
- Modular, low-profile design



Cree Edge™ Series Pathway

- Minimum 70 CRI
- CCT: 4000K, 5700K
- UL wet listed
- Two-Level options
- Multiple heights available





LED DECORATIVE STREET & ROADWAY

Maintain the day form, but modernize the incumbent technology with energy-efficient, low-maintenance LED solutions from Cree.

DPT Series

- Minimum 70 CRI
- CCT: 3000K, 4000K
- Input voltage: Integral 120-277V, 50/60Hz
- Utilizes a standalone UL 1598 compliant light engine
- Made with Cree® LED technology



DPT luminaire shown mounted to an existing luminaire base

DPT Series with optional Backlight Control Shield accessory: DPT-BLS



LED Upgrade Kit

- Minimum 70 CRI
- CCT: 2700K, 4000K
- 0-10V dimming option
- Field Adjustable Output for increased flexibility
- Reuses most of existing luminaire for little waste



BXRAAA
Kit for Holophane®
Granville Acorn



BXRAAB
Kit for Holophane®
Washington PostLite® Acorn



BXRAAD
Kit for King Luminaire
Washington Acorn



BXRAAE
Kit for Holophane®
Esplanade® Teardrop



BXRAAF
Kit for Lumec® New
Westminster Globe

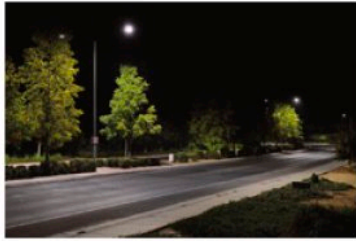


BXRAAH
Kit for Holophane® Granville
Utility Acorn w/ Hinged Door



BXRAAK
Kit for Holophane® Granville
Utility Acorn w/ Removable Door





LED STREET & ROADWAY

From rural streets to major highways, we have economical LED street lighting solutions that reduce energy and maintenance costs without sacrificing illumination performance.

RSW Series

New

- 80 CRI
- CCT: 3000K, 4000K
- Utilizes WaveMax™ Technology
- DLC rated, premium classification
- IP66 rated optic box and driver
- Traditional cobra head appearance
- Lightweight luminaire - 6.5 lbs. (2.9kg)



RUL Series

- Minimum 70 CRI
- CCT: 4000K
- UL wet listed
- Improved illumination performance
- Significant energy and maintenance savings
- Easy installation
- Utility kits available



RUL luminaire shown with reflector/
refractor included in ES-K2 option



NEMA® Receptacle and
Utility Label come standard



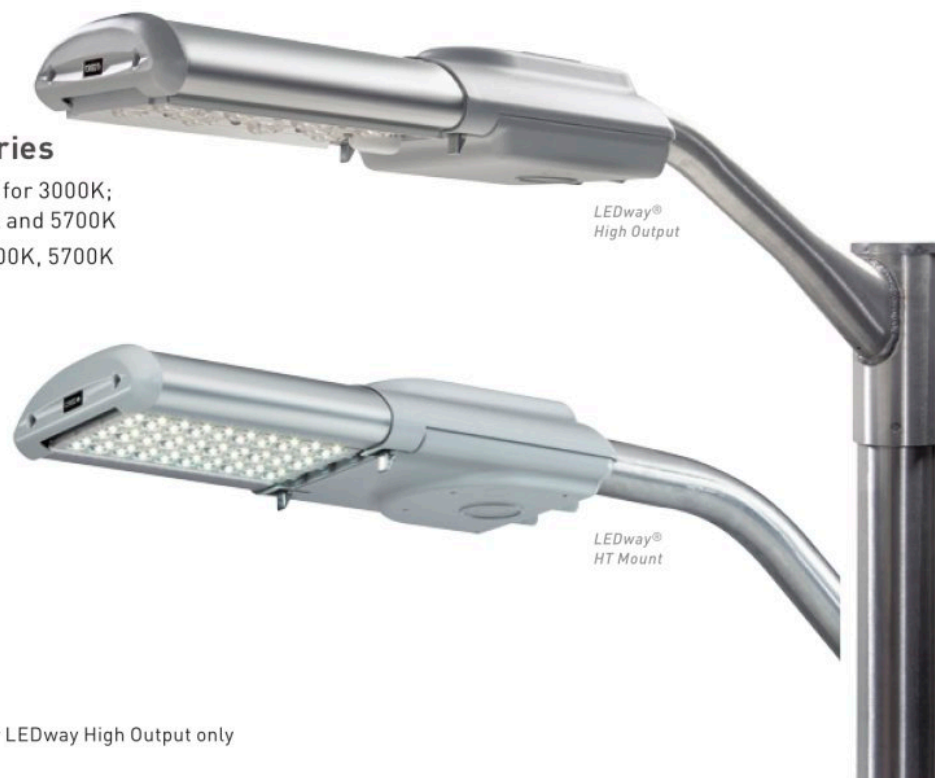


LED STREET & ROADWAY

The word on the street is Cree. Communities are saving up to 70% on energy costs while enhancing driver and pedestrian safety.

LEDway® Series

- Minimum 80 CRI for 3000K; 70 CRI for 4000K and 5700K
- CCT: 3000K*, 4000K, 5700K
- UL wet listed
- IP66 available



* 3000K available for LEDway High Output only

XSP Series

- Minimum 80 CRI for 3000K; 70 CRI for 4000K and 5700K
- CCT: 3000K, 4000K, 5700K
- NanoOptic® Precision Delivery Grid™ optic
- UL wet listed
- IP66 available





LED CANOPY & SOFFIT

Cree® recessed canopy and soffit lighting provides sustainable, high-performance lighting solutions for exterior canopy applications and building soffits.

CPY Series

- Minimum 70 CRI
- CCT: 4000K, 5700K
- Direct or pendant mount
- Flat or drop lenses available
- Slim, low-profile design
- Easy and quick installation



228 Series™

- Minimum 70 CRI
- CCT: 4000K, 5700K
- UL wet listed
- Multi-Level options
- Upgrade kit options
- Modular, flush mount design



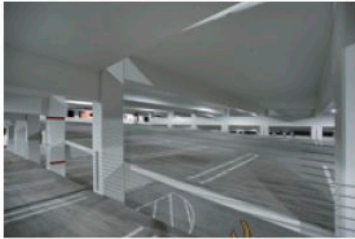
304 Series™

- Minimum 70 CRI
- CCT: 4000K, 5700K
- UL wet listed
- Driver centrally located
- Convenient electrical inspection access from below
- Modular, flush mount design



Cree Edge™ Series

- Minimum 70 CRI
- CCT: 4000K, 5700K
- UL wet listed
- Two-Level options
- Modular, low-profile design



LED PARKING STRUCTURE

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.

IG Series

- Utilizes WaveMax™ Technology
- Technology & application-driven design
- Precise low-glare optics
- Class-leading efficacy of 118 LPW
- Minimum 80 CRI
- CCT: 4000K, 5700K



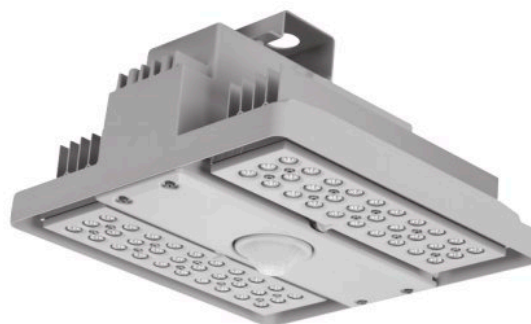
VG Series

- Minimum 70 CRI
- CCT: 4000K, 5700K
- Low glare, indirect view LEDs
- Integrated with Multi-Level options
- UL wet listed, IP66 rated
- Modular, low-profile design



304 Series™

- Minimum 70 CRI
- CCT: 4000K, 5700K
- UL wet listed
- Multi-Level options
- Integrated occupancy sensor
- Low-profile design





LED FLOOD

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

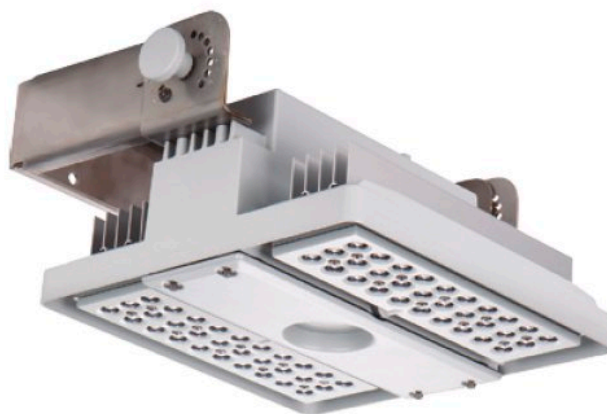
OSQ Series

- Minimum 70 CRI (4000K & 5700K); 80 CRI (3000K)
- CCT: 3000K, 4000K, 5700K
- Multiple light outputs



304 Series™

- Minimum 70 CRI
- CCT: 3000K, 4000K, 5700K
- UL wet listed
- Low-profile design



Cree Edge™ Series

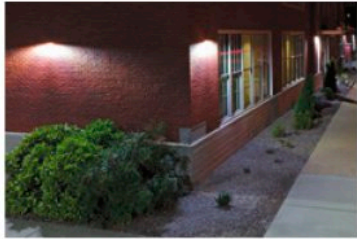
- Minimum 70 CRI (4000K & 5700K); 90 CRI (5000K)
- CCT: 4000K, 5000K, 5700K
- UL wet listed
- Modular, low-profile design



Cree Edge™ Flood Square



Cree Edge™ High Output Flood



LED WALL MOUNT

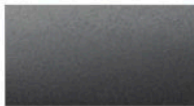
Sleek and stylish security and perimeter lighting features a modular, low-profile design that provides clean, uniform illumination for increased visibility and a secure environment.

XSPW™

- Minimum 70 CRI
- CCT: 4000K, 5700K
- UL wet listed
- IP66 rated
- Multi-Level options



Available finishes:



[BK] Black



[BZ] Bronze



[SV] Silver



[WH] White

Cree Edge™ Series

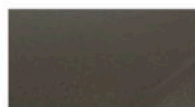
- Minimum 70 CRI
- CCT: 4000K, 5700K
- UL wet listed
- Multi-Level options
- Modular, low-profile design



Available finishes:



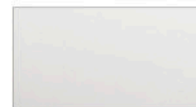
[BK] Black



[BZ] Bronze



[SV] Silver



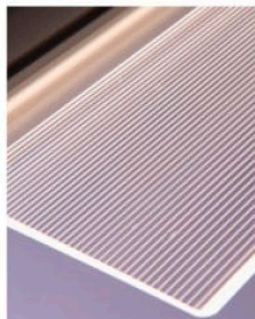
[WH] White

PROVEN PERFORMANCE AND SUPERIOR VALUE.

The innovative technologies that make up Cree products have revolutionized the lighting industry by making high-quality, sustainable LED lighting affordable and available to all. With this advantage, we remain at the forefront today, dedicated to developing new LED lighting solutions that improve both our customers' spaces and their bottom lines, and all backed by an incredible warranty.

Cree WaveMax™ Technology

Cree WaveMax™ Technology is a breakthrough in the execution of waveguide technology that challenges industry-standard assumptions of how light is delivered. Featuring up to 90% optical efficiency and precise optical control, Cree WaveMax™ Technology enables customers to obtain unmatched visual comfort and improved color quality without sacrificing performance. This transformative technology redefines the limits of fixture design to optimize performance and provides more aesthetic options at an unmatched customer value.

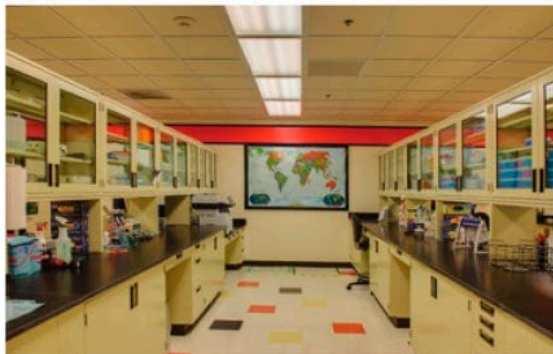


LN Series

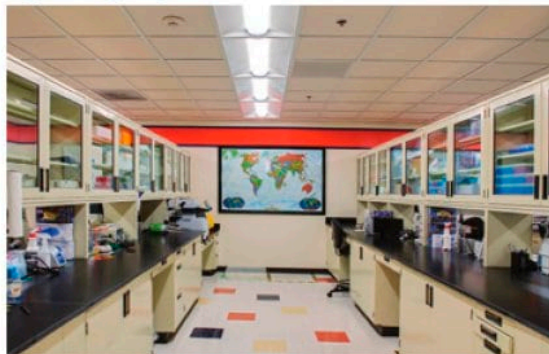


IG Series

Comparison: Fluorescent Lighting vs. Cree TrueWhite® Technology LED Lighting



Before: Fluorescent Lighting



After: Cree TrueWhite® Technology LED Lighting

Cree TrueWhite® Technology

Cree TrueWhite® Technology provides exceptional color quality to lighting applications. Featuring a broad spectral power distribution, Cree TrueWhite® Technology delivers 90+ CRI, high R9 values, and accurate and consistent color. The result is high performing, beautiful white light that can dramatically improve the visual appearance of both interior and exterior spaces — all while offering significant energy savings compared to traditional technologies. Cree TrueWhite® Technology – Saving Energy Never Looked So Good.



No sacrifice or compromise. Just high-quality illumination performance that uses less energy, greatly reduces maintenance costs and puts your facility in a whole new light. Only from Cree.

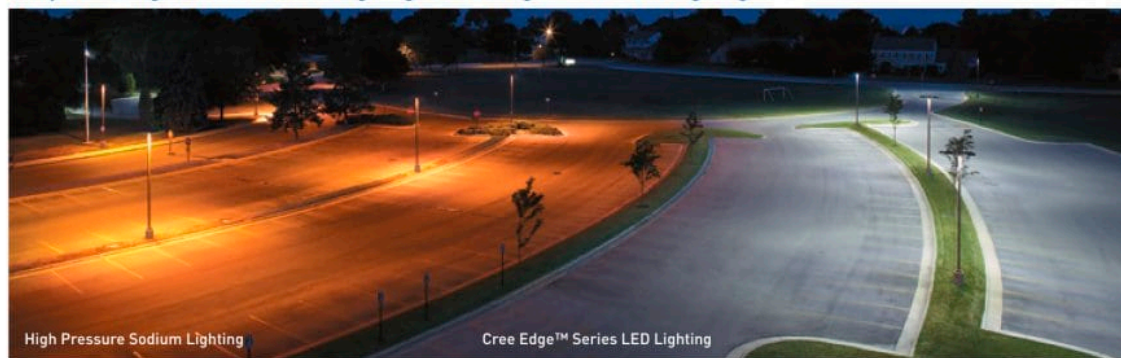
NanoOptic® Technology

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.

DeltaGuard® Finish

Cree's exclusive Colorfast DeltaGuard® Finish protects our LED outdoor fixtures without compromise. Immersive conditioning across 18 stages delivers an e-coat epoxy primer with an ultra-durable powder topcoat, providing unmatched protection against corrosion, UV light, fading and weathering complete with a 10-year limited warranty.

Comparison: High Pressure Sodium Lighting vs. Cree Edge™ Series LED Lighting



Cree 10-Year Limited Warranty

Cree offers a 10-year limited warranty that covers the broadest product range in the industry. As a leading innovator of LED chips, components and lighting, Cree has over 20 years of experience in commercial LED development, bringing an unprecedented level of expertise to all facets of the LED lighting design and development process. Cree's 10-year limited warranty covers nearly all globally-available, commercial-grade indoor and outdoor fixtures. To learn more, please visit lighting.cree.com/warranty.

FAST COMPANY 2015 MOST INNOVATIVE COMPANIES

It's Official: We're #1 in Energy Innovation.

Each year, Fast Company recognizes companies and products that transform how we consume energy, and for 2015, Cree is #1 in the Energy Innovation sector and #19 in Overall Innovation.

Visit **lighting.cree.com** or contact a Cree lighting representative to learn more.

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