



Cree LED Lighting Solutions
Petroleum Spaces





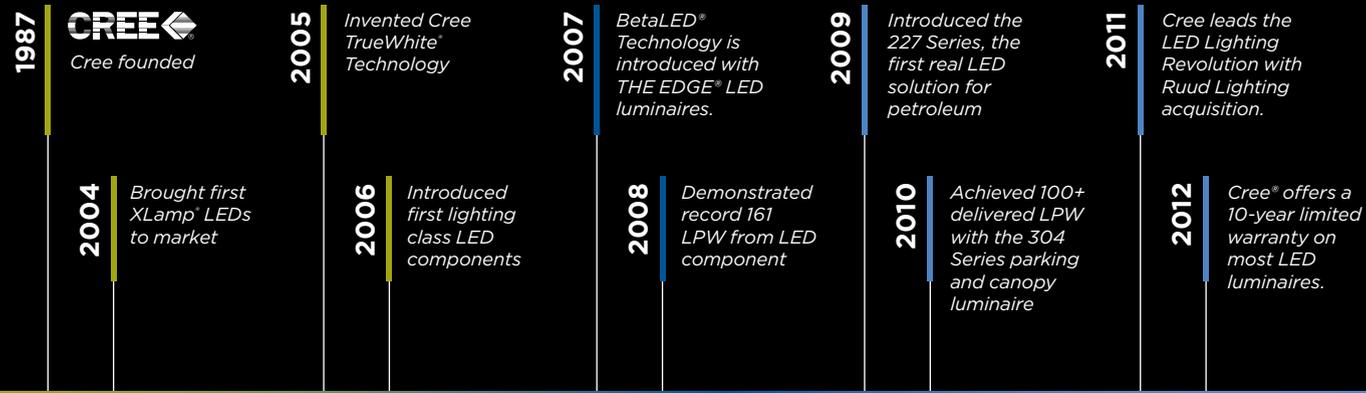
LOOK TO CREE FOR PROVEN INNOVATION & SUPERIOR VALUE

At Cree, customer-driven innovation is nothing new. It has been our constant focus for nearly a quarter century. In that time, we've revolutionized the lighting industry by making high-quality, sustainable LED lighting affordable and easily available.

We've also grown into a fully-integrated lighting company, with more than a million of our LED products installed around the globe and a solid reputation for delivering top-performing LED fixtures.

Cree remains at the forefront today, developing new LED solutions that improve both our customers' spaces and their bottom lines. As our product lines grow, we not only build on our history of innovation, we also extend our record of delivering superior value with beautiful, energy-efficient lighting. We are so confident in our LED technologies, that we offer a 10-year limited warranty on most of our LED luminaires.

A HISTORY OF INNOVATION. A BRIGHT FUTURE AHEAD.



A SOLUTION FOR EVERY NEED

Cree is committed to delivering the best indoor and outdoor solutions on the market, inspired by the needs of our customers and perfected by the knowledge and expertise of our engineers. We recognize the importance of energy efficient, high-quality lighting and aspire to improve every business with uncompromising performance and payback. That's why we've introduced a 10-year limited warranty covering the industry's broadest range of products.

LED DOWNLIGHTS



Cree® LED downlights deliver beautiful ambient lighting and valuable energy savings to elevate the look of your c-store point-of-purchase displays.

LED CANOPY LIGHTS



Cree® recessed canopy luminaires achieve an updated appearance for new or upgrade applications with improved lighting performance using less energy.

LED TROFFERS



Cree® LED troffers deliver clean, low-glare light that's also affordable, creating high profile product displays while dramatically reducing operating expenses.

LED AREA LIGHTS



Cree® exterior LED products deliver impressive energy savings with crisp, bright light for improved site visibility and the payback you demand.

CR24™

LEDway®

UPKIT
(using the CR-LE)

304 Series™

LR6-DR1000

CS18™

A SOLUTION FOR EVERY SETTING

At Cree, we understand what quality lighting and operational savings can do for your business. Our fixtures create inviting light and excellent uniformity to help attract more customers, all while lowering your energy and maintenance bills. From a well-lit parking lot to appealing c-store product displays, we formulate every solution to meet your unique needs—whatever the application, whatever the budget.

LIGHTING WITHOUT COMPROMISE

Choosing Cree® LED fixtures can offer you all of the following benefits:

<p>Lifetime Savings Up to 85% less energy and significantly less maintenance costs than traditional lighting.*</p>	<p>Impressive Brand Awareness Beautiful, mercury-free lighting elevates your brand's image and creates lasting impressions.</p>	<p>No Routine Maintenance Up to 20x longer life helps to free you from unnecessary maintenance expenses and multiple fixture outages.</p>	<p>Add Pop to Your Promos Crisp, low-glare light creates impressive point-of-purchase displays inside your c-store.</p>
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CANOPY SPACES



- Dispenser Stations



OUTDOOR AREAS



- Security
- Parking Lots
- Building Entrances
- Walkways



CAR WASH SPACES



- Wet Locations
- Car Wash Entrances
- Walkways



C-STORE SPACES



- Product Display
- Convenience Counter
- Storage/Break Rooms
- Restrooms



*85% Energy savings based on 10.5W LR6 vs. 75W Incandescent. Lifetime savings based on Cree luminaires designed to last 50,000 hours vs. 2,500 hour incandescents.



SEE MORE, SAVE MORE

Customer safety is paramount. That's why easy-to-install canopy lighting from Cree requires virtually no maintenance to produce quality, even illumination under single- or double-skin canopies. A modular design with all components easily accessible from below the canopy deck makes equipment replacement quick and hassle-free. Cree's canopy lighting dramatically reduces your lighting costs and presents your site as a professional, secure facility that will keep patrons coming back for more.



Canopy Areas Application & Payback



Highlighted Products

STANDARD FEATURES:

- 10-Year Limited Warranty
- Over 20 Optical Distribution Options

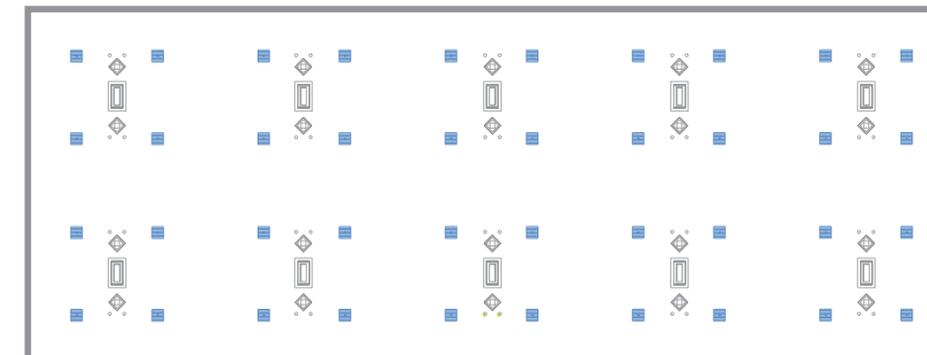
304 Series™

RECESSED CANOPY



- Minimum 70 CRI at 4000K or 5700K
- Utilizes BetaLED® Technology
- UL Wet Listed
- Driver centrally located
- Convenient electrical inspection access from below

Financial Case Study: Petroleum Canopy



Estimated Project Savings*

(based on 11.4 years of application life)

- \$79,362 total lifetime savings
- Payback within 2.5 years
- 689,062 kWh saved
- 240 relamps avoided

To see how these savings were achieved and to calculate your own, please visit:

www.cree.com/payback

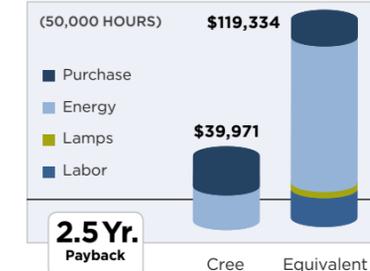
Project Fixture Options

Cree LED Lighting

Symbol	Luminaire	Qty	Watts	Total Watts	Luminaire	Total Watts
■	304 Canopy	40	105	4,200	400W PSMH	18,000
				Total Power (W)	4,200	18,000
				Energy Savings	76.7%	

Equivalent Lighting

Estimated Total Lifetime Costs*



*Savings and payback are representative of what customers could expect operating in a typical application using comparable products.



DRAMATIC LIGHTING AND EVEN MORE DRAMATIC SAVINGS

Advanced NanoOptic® technology enables every Cree exterior fixture to be uniquely designed to provide on-target illumination where you want it and full cutoff where you don't. Combined with their superior light quality, our fixtures provide both vivid and precise lighting for your site so you can use the energy required as effectively as possible. Products such as the Cree EDGE™ Series are also International Dark Sky compliant, so you can be sure that you're reducing light pollution, all while reducing your energy bill.



Site/Area Spaces Application & Payback



Highlighted Products

STANDARD FEATURES:

10-Year Limited Warranty



LR6™

6" DOWNLIGHT

- 650 lumens, 10.5W, 120V
- 90 CRI at 2700K or 3500K
- Dimmable to 20% (120V)
- Available in 277V and deep recess



Cree EDGE™ Area

HIGH OUTPUT

- Minimum 70 CRI at 4000K or 5700K
- Utilizes BetaLED® Technology
- Input voltage: 120-277V or 347-480V, 50/60Hz
- Over 20 Optical Distribution Options

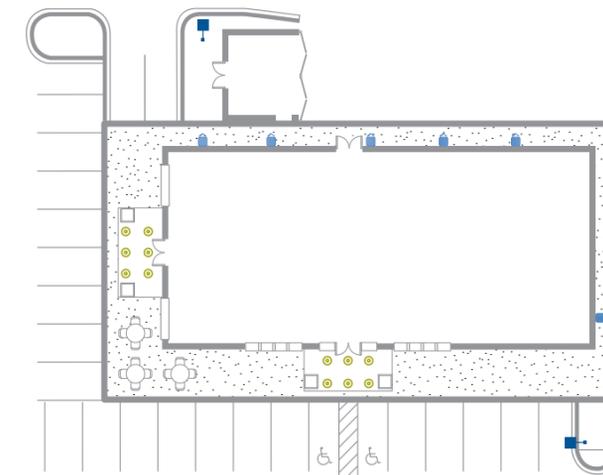
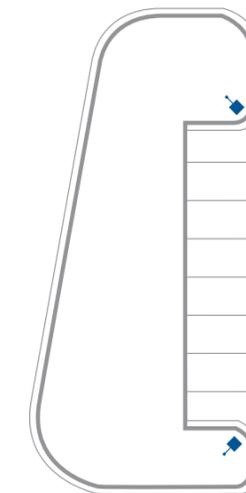


Cree EDGE™ Security

SECURITY WALL MOUNT

- Minimum 70 CRI at 4000K or 5700K
- Utilizes BetaLED® Technology
- UL wet listed
- Multi-level Options

Financial Case Study: Parking Lot and Exterior Site



Estimated Project Savings*

(based on 11.4 years of application life)

- \$36,111 total lifetime savings
- Payback within 3.0 years
- 154,789 kWh saved
- 268 relamps avoided

To see how these savings were achieved and to calculate your own, please visit:

www.cree.com/payback

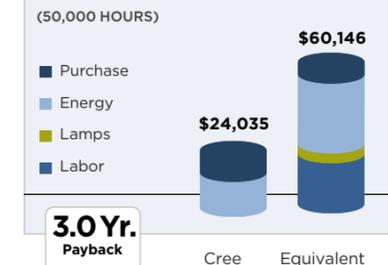
Project Luminaire Options

Cree LED Lighting

Symbol	Luminaire	Qty	Watts	Total Watts	Luminaire	Total Watts
	LR6	12	10.5	126	32W CFL	432
	ARE-EHO	4	557	2,228	1000W Metal Halide	4,320
	SEC-EDG	6	68	408	150W Pulse Start MH	1,110
				Total Power (W)	2,762	5,862
				Energy Savings	52.9%	

Equivalent Lighting

Estimated Total Lifetime Costs*



*Savings and payback are representative of what customers could expect operating in a typical environment using comparable products.

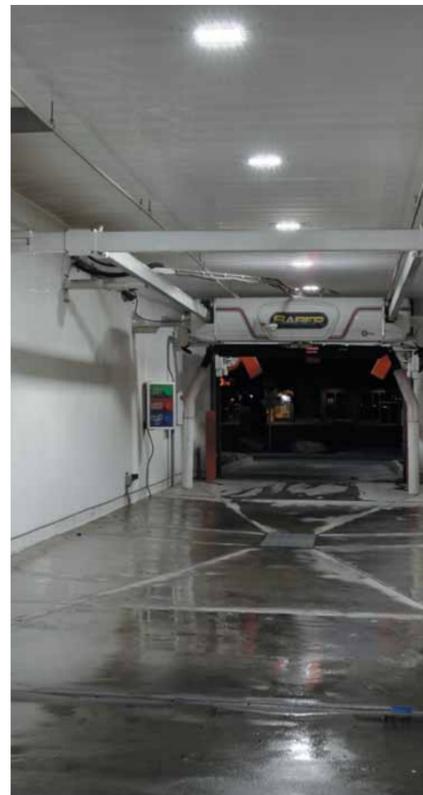
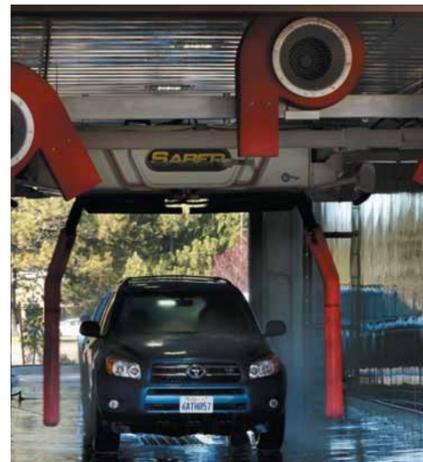


BRIGHTER LIGHT FOR BETTER PERIMETER DEFINITION

Perimeter and edge lighting helps define your site while improving its aesthetics. Our engineers have designed advanced heat sinks into easily-installed Cree soffit and recessed fixtures to enhance lumen performance and extend application life for more than a decade of maintenance-free performance. You'll start saving money with a flick of a switch. UL Wet-listed and International Dark Sky compliant, flush, low-profile Cree® canopy lights feature a modular design that makes maintenance simple.



Car Wash / Perimeter Lighting Application & Payback



Highlighted Products

STANDARD FEATURES:

- 10-Year Limited Warranty
- Over 20 Optical Distribution Options



Cree EDGE™ Area AREA LIGHT

- Minimum 70 CRI at 4000K or 5700K
- Utilizes BetaLED® Technology
- UL wet listed
- Two-level options
- Modular, low-profile design



304 Series™ PARKING STRUCTURE

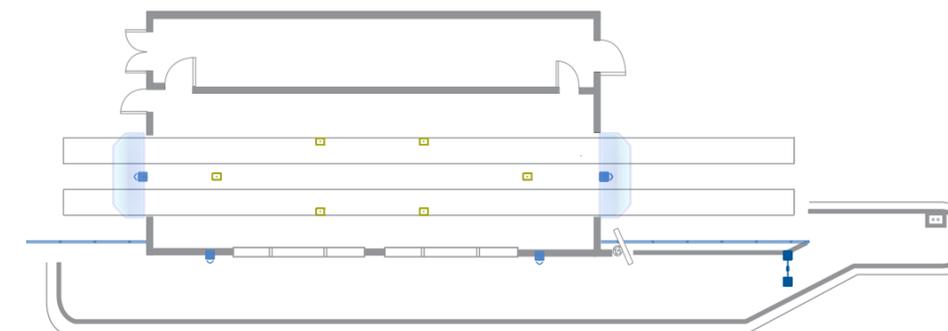
- Minimum 70 CRI at 4000K or 5700K
- Utilizes BetaLED® Technology
- UL Wet Listed
- Integrated occupancy sensor



Cree EDGE™ Security SECURITY WALL MOUNT

- Minimum 70 CRI at 4000K or 5700K
- Utilizes BetaLED® Technology
- UL wet listed
- Multi-level options

Financial Case Study: Car Wash & Perimeter



Estimated Project Savings*

(based on 11.4 years of application life)

- \$22,936 total lifetime savings
- Payback within 3.1 years
- 157,585 kWh saved
- 129 relamps avoided

To see how these savings were achieved and to calculate your own, please visit:
www.cree.com/payback

Project Luminaire Options

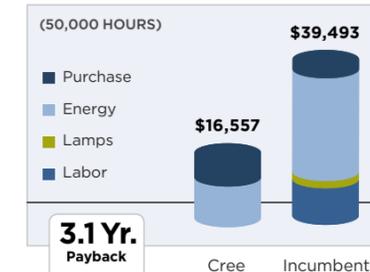
Cree LED Lighting

Symbol	Luminaire	Qty	Watts	Total Watts	Luminaire	Total Watts
	ARE-EDG	1	204	204	400W Pulse Start MH	450
	PKG-304	6	105	630	250W Pulse Start MH	1,728
	SEC-EDG	4	68	272	150W Pulse Start MH	740
				Total Power (W)	1,106	2,918
				Energy Savings	61.9%	

Incumbent Lighting

Estimated Total Lifetime Costs*

(50,000 HOURS)



*Savings and payback are representative of what customers could expect operating in a typical environment using comparable products.



PRODUCT PROMOS THAT INSPIRE

When customers walk into your c-store, you want them to feel comfortable and at home. Interior lighting from Cree with Cree TrueWhite® Technology produces a warm, inviting light using up to 85 percent less energy. Cree TrueWhite® Technology enables interior lights to achieve a CRI of 90+, so your refreshments look fresher, your appetizers more appetizing, and your c-store cleaner and more professional. Our lights are rated at more than 50,000 hours. With an average payback of one year, that's more than six years of savings.



Convenience Store and Interiors Application & Payback



Highlighted Products

STANDARD FEATURES:

Designed to Last 50,000 Hours / 10-Year Limited Warranty

LR6-DR1000

6" DOWNLIGHT

- 1000 lumens, 12.5W, 120V
- 90 CRI at 2700K or 3500K
- Dimmable to 20% (120V)
- Available in 277V and deep recess



LR24™

2' X 2' TROFFER

- 3200 or 3800 lumens; 44W-52W
- 90 CRI at 3500K
- Dimmable to 5% with 0-10V DC control*



CR14™

1' X 4' TROFFER

- 2200, 3100, 4000 or 5000 lumens
- 22W-50W (90-110LPW)
- 90 CRI at 3000K, 3500K or 4000K
- Step Dimming to 50%; 0-10V to 5%*



CR24™

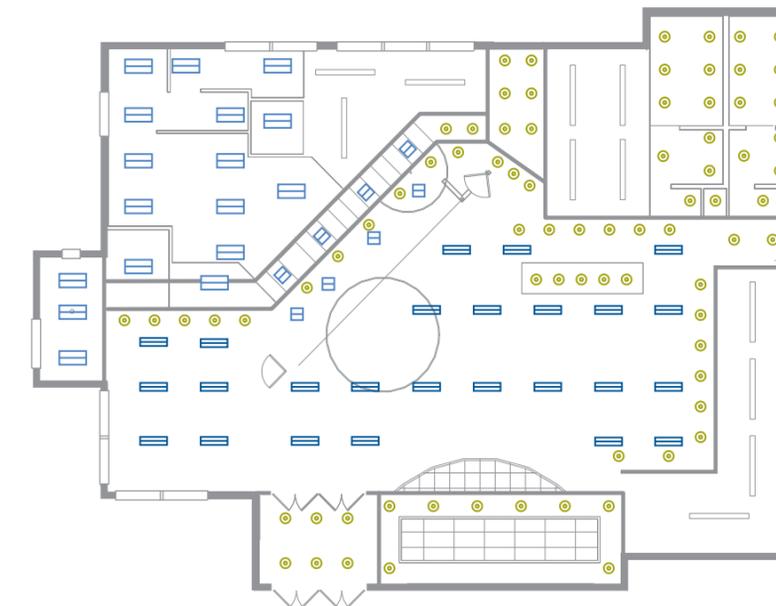
2' X 4' TROFFER

- 2200, 3100, 4000 or 5000 lumens
- 22W-50W (90-110LPW)
- 90 CRI at 3000K, 3500K or 4000K
- Step Dimming to 50%; 0-10V to 5%*



*Reference www.cree.com/lighting for recommended dimming control options.

Financial Case Study: Convenience Store and Dining Area



Estimated Project Savings*

- \$13,905 total lifetime savings
- Payback within 2.7 years
- 166,325 Lifetime kWh saved
- 1,217 relamps avoided

To see how these savings were achieved and to calculate your own, please visit:
www.cree.com/payback

Project Luminaire Options

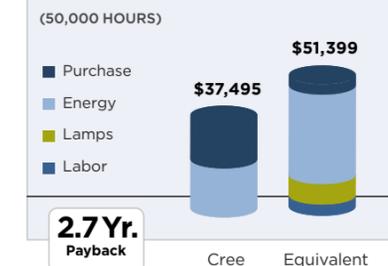
Cree LED Lighting

Symbol	Luminaire	Qty	Watts	Total Watts
⊙	LR6-DR1000	91	12.5	1,138
⊞	LR24	8	44	352
≡	CR14 (4000L)	25	44	1,100
≡	CR24 (4000L)	14	44	616
			Total Power (W)	3,206
			Energy Savings	51%

Equivalent Lighting

Luminaire	Total Watts
36W 2-Pin CFL	3,276
60W 2-Lamp T8	480
90W 3-Lamp T8	2,250
90W 3-Lamp T8	1,260
7,266	

Estimated Total Lifetime Costs*



*Savings and payback are representative of what customers could expect operating in a typical environment using comparable products.



WHY CREE?

PROVEN PERFORMANCE, REVOLUTIONARY TECHNOLOGY

Cree TrueWhite® Technology



Powered by Cree TrueWhite® Technology, only Cree® indoor LED luminaires can deliver our exclusive combination of industry-leading efficacy, 90+ CRI, and consistent warm or cool color temperatures.

The Cree advantage begins with mixing the light from red and Cree unsaturated yellow LEDs—among the highest-performing LEDs on the market. Every Cree luminaire is then color tuned as a complete system for the utmost consistency in performance.

The result is beautiful white light with superior color accuracy and consistency using significantly less energy than traditional lighting—a true no-compromise solution.



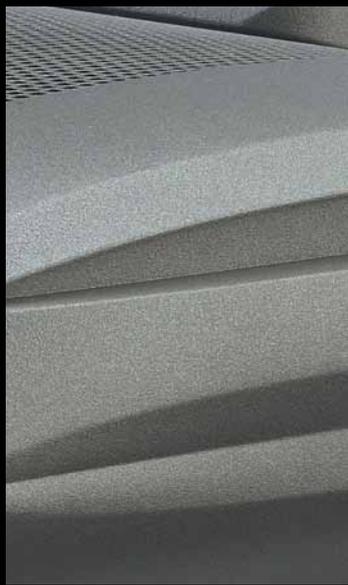
BetaLED® Technology

OPTICS



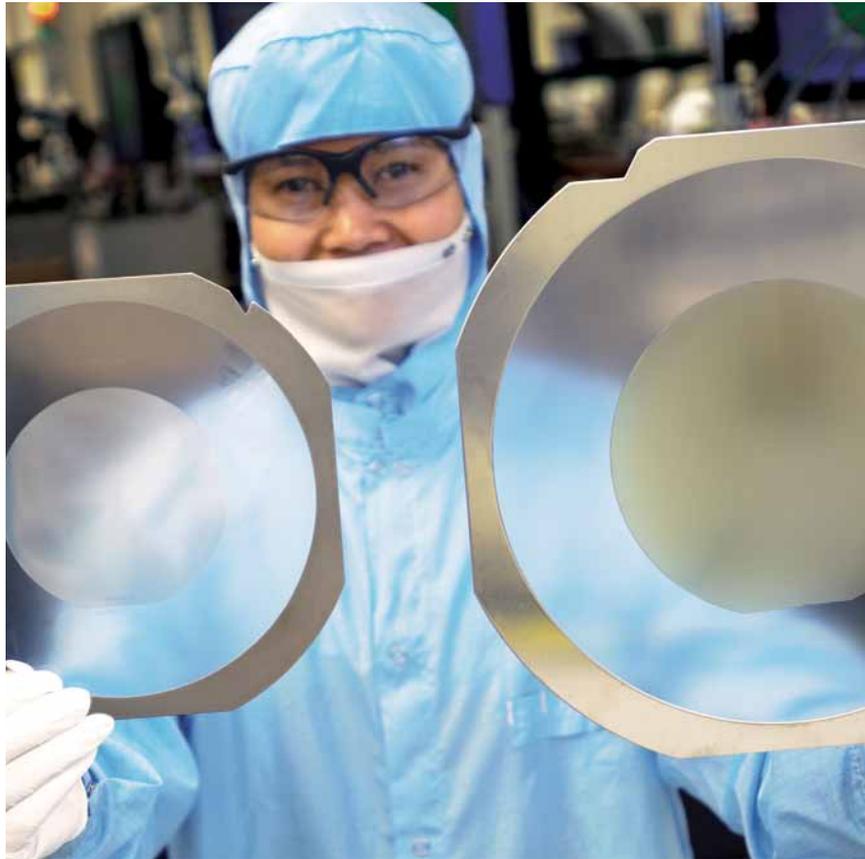
With patented NanoOptic® technology available in more than 20 distributions, Cree outdoor LED luminaires provide new possibilities for highly optimized target illumination performance and the flexibility needed to achieve application specific lighting requirements. The NanoOptic® refractor system offers superior light control with more lumens delivered in the target area, improved uniformity ratios, and controlled high angle brightness.

DELTAGUARD® FINISH



Deltaguard® Finish, the finest industrial grade finish available, is exclusive to Cree® outdoor luminaires and poles, and carries an industry-leading ten-year warranty. Each outdoor luminaire follows an immersion process that includes six cleaning stages, eight pre-treatment stages, and an epoxy e-coat before the topcoat is applied. The baked-on ultra-durable powder topcoat is the last step to a truly outstanding finish that provides ultraviolet light resistance, corrosion resistance, fade protection and more.





WHY CREE?

COMMITTED SERVICE, SUPERIOR VALUE & PAYBACK



When you do business with Cree, you have access to dedicated professionals and innovative technologies that help enhance your work spaces, save you time, and lower your operating expenses.

No matter the application, our state-of-the-art LED lighting solutions can deliver superior value with:

- **Proven Quality and Performance**
- **Better, Safer Working Environments**
- **Long-Term Financial Benefits**
- **Lifetime Energy Savings**
- **Reduced Maintenance Needs**
- **Easy Installation and Retrofitting**
- **Simplified Energy Code Compliance**
- **10-year Limited Warranty**

Whatever your project, whatever your budget—

Visit www.cree.com/lighting to learn more about how we can accomplish your goals together.



CANOPY SPACES



OUTDOOR AREAS



CAR WASH SPACES



C-STORE SPACES

Join the LED Lighting Revolution.

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

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