THE DIFFERENCE YOU CAN SEE.
THE PAYBACK YOU EXPECT.
Proven Performance

Cree is recognized throughout the world for excellence in delivering successful BetaLED Technology luminaires for interior and exterior illumination. Our respected industry leadership is earned through accomplishments that include:

Cree leads all other LED luminaire manufacturers in installed luminaire run time with more than one billion hours and counting.¹

The most credible performance data, proven through independent laboratory testing.

More than 200 patents for state-of-the-art engineering and design of LED luminaires (currently holding and applied for).

The most installed external LED luminaires globally.

LEDway® Streetlights

Engineered to optimize both illumination and economic performance, LEDway is a versatile, high-performance street lighting solution from Cree designed specifically for street and roadway applications. Easily retrofit onto existing mounting systems, it’s simple and affordable to invest in state-of-the-art technology.

LEDway streetlights offer significant energy and maintenance savings compared to traditional light sources. In an era of seemingly never ending budget shortfalls, LEDway streetlights offer a budget friendly alternative to help stretch your budget dollars. Plus, show the world your community is environmentally conscious and leading the charge to reduce energy demand and greenhouse gas emissions. LED technology helps you set the example, achieve sustainability goals and improve your community’s quality of life.

¹ Assumes 10 hours of run-time per luminaire per day, as of June 2011.
Our Total Systems Approach

Cree engineers used a fresh methodology to design LED luminaires. Rather than incorporating LEDs into existing HID designs, a Total Systems Approach was developed to maximize the benefits LED technology offers for general illumination.

BetaLED Technology: We combine the most advanced LED chip packages with our patented NanoOptic® product technology, drivers built to exacting specifications, and efficient thermal management techniques. The result is unsurpassed illumination performance, efficiency, and longevity.

Illumination Performance

Our patented NanoOptic is a direct-contact refractor that minimizes light losses and provides superior target illumination performance. More than 20 different optical distribution patterns are available to help you fully customize LEDway streetlights to your exact application and project goals.

Efficiency

The limitations of a luminaire should not dictate the success of your street lighting project. LEDway streetlights are available in a variety of optical and power configurations allowing for precise balancing of illumination and economic performance.

Longevity

Proper thermal management is the key to maximum sustained illumination performance. LEDway’s high-performance heat sink and unique flow-through design helps maximize product performance and reliability.
State-of-the-Art Product Testing

Product development and rigorous testing is conducted in Cree’s on-site state-of-the-art laboratories. The sophisticated UL and TUV certified test labs are equipped with the latest custom equipment and software used to develop and test all aspects of the Cree luminaires. To maintain credibility, Cree also uses certified independent laboratories for LM-79-08 test reports, as well as for many other reports that independently validate our product performance claims.

- Vibration testing: certified to ANSI C136.31-2001 and meets CALTrans 611 vibration testing
- 5,000 hour salt fog testing to ASTM Standard B 117

All Cree luminaires meet industry lighting standards and guidelines set forth by global organizations and agencies like the International Dark-Sky Association.

Designed & Manufactured in the U.S.

Cree’s commitment to quality is infused in its products from development through production and shipping. World-class manufacturing teams and overall operational excellence combine to produce distinctive lighting products that consistently exceed expectations.

Our dedication to the advancement of Cree luminaires includes an investment in proprietary automated equipment, unique manufacturing processes and ISO 9001:2008 registration.

Cree luminaires featuring BetaLED Technology, are manufactured in the United States.

LEADING THE WAY
Los Angeles, California, United States

“After an expansive test of LED luminaires from various manufacturers, BetaLED [Cree] products met or exceeded the expected performance, cost savings, and sustainability goals of this project.”

—Ed Ebrahimian, General Manager of the Bureau of Street Lighting
**CITY STATS**

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
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</thead>
<tbody>
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<td>Street lighting Assessment Fund &amp; loans</td>
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<td>First Installation</td>
<td>2009</td>
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Rome City Council’s commitment to restructuring the cities lighting, emerged as a result of the European Renewable Energy Directive (Directive “20-20-20”). The Directive commands a 20 percent reduction in greenhouse gas emissions by 2020 (compared with 1990 levels), a 20 percent cut in energy consumption through improved energy use, such as LED lighting, by 2020 and a 20 percent increase in the use of renewable energy by 2020.

**Reduce Your Cost**
A lower total cost of ownership allows you to be flexible with your operating or capital expenses. With significant energy and maintenance savings compared to traditional HID systems, LEDway’s fast payback and years of reliable service will help free up funds to finance other high priority projects.

**Increase Safety**
LEDway streetlights provide higher quality light for improved visibility performance compared to traditional lighting systems. Patented NanoOptic technology delivers uniform target illumination performance, minimizing dark spots between luminaires helping to create a safer environment for vehicle and pedestrian traffic.

**Improve Service to Residents**
Capable of providing in excess of 15 years of near maintenance-free service, LEDway streetlights reliably provide years of uninterrupted service to residents. Improved reliability and fewer service interruptions mean less outages and a safer environment.

**Leading The Way**
Rome, Italy

Rome City Council’s commitment to restructuring the cities lighting, emerged as a result of the European Renewable Energy Directive (Directive “20-20-20”). The Directive commands a 20 percent reduction in greenhouse gas emissions by 2020 (compared with 1990 levels), a 20 percent cut in energy consumption through improved energy use, such as LED lighting, by 2020 and a 20 percent increase in the use of renewable energy by 2020.
### REALIZE

**BUDGETARY GOALS**

- Rome, Italy

**CITY STATS**

<table>
<thead>
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<th>Value</th>
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</thead>
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<td>Funding</td>
<td>Rome City Council</td>
</tr>
<tr>
<td>First Installation</td>
<td>2008</td>
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</table>
Use Less Energy

Energy savings from LEDway streetlights, for typical street lighting applications, is generally 30-70% compared to traditional HID systems. This is achieved without compromise to illumination performance. Networked or non-networked lighting controls can be added to further enhance overall energy savings.

Control Light Pollution

LEDway streetlights comply with International Dark Sky Association (IDA) guidelines and are designed to provide maximum on target illumination performance while minimizing light spill onto neighbouring properties or into the night sky. LEDway streetlights are “Dark Sky Friendly”.

Eliminate Hazardous Materials

LEDway streetlights are Restriction of Hazardous Substances (RoHS) compliant. No mercury or other hazardous substances are used compared to traditional sources that present potentially hazardous disposal and environmental issues.

Lower Greenhouse Gas Emissions

LED streetlights reduce the amount of energy used and ultimately help to reduce the carbon footprint of your municipality. Independent laboratories estimate a rapid adoption of LED over the next 20 years can eliminate 258 million metric tons of carbon emissions.

LEADING THE WAY

Bab Al Bahr, Ras Al Khaimah, United Arab Emirates

Governments across the Middle East are actively looking to achieve energy efficient systems, and many have conducted field studies, researching the use of renewable energy resources, the application of energy savings in the choice of street lighting, implementing water pumping stations and for electricity production.
INVEST IN SUSTAINABILITY

Bab Al Bahr, Ras Al Khaimah, UAE

Est. Cost Savings/Year 70-90%
Est. Energy Savings/Year 65%
Products Replaced 150 & 250W HPS

Funding Ras Al Khaimah Investment Authority
First Installation 2011

CITY STATS
By undertaking the largest installation of energy-efficient streetlights in Canada, Penetanguishene has challenged other municipalities to demonstrate similar leadership. This is not a pilot project. This is not a demonstration project. This is the real deal.


**Reduce, Reuse, Recycle**

LEDway products are made using a total of 20-25% (by weight) post consumer recycled materials (aluminum castings and extrusions). 70% (by weight) of LEDway components are aluminum castings and extrusions that are readily recyclable. Corrugated packaging is made from 50% recycled material and is 100% recyclable.

**Preserve Earth’s Resources**

By using LEDway streetlights you eliminate the use and disposal of hazardous materials, such as mercury, that are found in traditional light source technologies (metal halide, fluorescent and high pressure sodium lights) in your community, while preserving precious resources for generations to come.

**Retrofit to a New Look**

If retrofitting makes financial sense, LEDway can be installed onto existing mounting systems to replace traditional streetlights. LEDway streetlights can be installed in a matter of minutes saving your community time and money.

LEADING THE WAY

Penetanguishene, Ontario, Canada
### CITY STATS

<table>
<thead>
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<th>Category</th>
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<td>Est. Energy Savings/Year</td>
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<td>193 tons</td>
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</table>
LEDway Streetlight

LEDway streetlights are built to the exact standards required by your application. With more than 20 optical distributions, flexible drive currents, numerous options, and the opportunity to choose from up to 120 LEDs in 10 LED increments, no other streetlight on the market is more versatile.

Key features:

- Drive current flexibility — 350mA/525mA/700mA
- Correlated Colour Temperature (CCT) — 5700, 4000, 3500 or 3000K
- ±5º vertical adjustment with 2 1/2º incremental positions
- 10kV surge suppression
- Tool-less entry and quick disconnect harness on power door
- Compatible with networked and non-networked lighting control systems
- IDA approved, CE, UL, cUL Listed and RoHS compliant
- Listed on the DesignLights™ Consortium (DLC) Qualified Products List http://www.designlights.org. (A United States based resource for high-quality, energy-efficient, commercial lighting luminaire designs and information.)
CATALOG LOGIC

XSL0206D-UDRS:
Example shows a LEDway Streetlight with a Horizontal Tenon Mount, Type II Medium Optics, 60 LEDs, LED Series D, 120-277V Driver, 700mA drive current, NEMA Photocell Receptacle, with a Silver Finish.

<table>
<thead>
<tr>
<th>Product</th>
<th>Mounting</th>
<th>Optic</th>
<th>LED Count</th>
<th>LED Series</th>
<th>Voltage (Factory Installed)</th>
<th>Drive Current (Factory Installed)</th>
<th>Options</th>
<th>Colour Options</th>
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<tr>
<td>XSL</td>
<td>0 Horizontal Tenon</td>
<td>2 Type II Medium</td>
<td>02 20</td>
<td>D</td>
<td>U 120-277V</td>
<td>H 350mA</td>
<td>F Fusing</td>
<td>B Platinum Bronze</td>
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<tr>
<td></td>
<td></td>
<td>3 Type III Medium</td>
<td>03 30</td>
<td></td>
<td></td>
<td>C 525mA</td>
<td>G 2-level, no sensor: 175/350/525mA</td>
<td>S Silver</td>
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<tr>
<td></td>
<td></td>
<td>4 Type IV Medium</td>
<td>04 40</td>
<td></td>
<td></td>
<td>D 700mA</td>
<td>CL 2-level w/sensor: 75/525mA</td>
<td>T Black</td>
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<td></td>
<td></td>
<td>5 Type V Medium</td>
<td>05 50</td>
<td></td>
<td></td>
<td></td>
<td>J Access Door Safety Cable</td>
<td>W White</td>
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<td></td>
<td></td>
<td>F Type II Short</td>
<td>06 60</td>
<td></td>
<td></td>
<td></td>
<td>N Remove Quick Disconnect Harness</td>
<td>Z Bronze</td>
</tr>
<tr>
<td></td>
<td></td>
<td>G Type II Short w/backlight shield</td>
<td>07 70</td>
<td></td>
<td></td>
<td></td>
<td>R NEMA Photocell Receptacle</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>H Type III Medium w/backlight shield</td>
<td>08 80</td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>J Type IV Medium w/backlight shield</td>
<td>09 90</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>K Type II Short w/backlight shield</td>
<td>10 100</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>L Type II Medium w/part backlight shield</td>
<td>11 110</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>M Type III Medium w/part backlight shield</td>
<td>12 120</td>
<td></td>
<td></td>
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<td></td>
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<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1 All with an anodized aluminum extrusion

BACKLIGHT CONTROL OPTIONS

Type II Medium (2)
LEDway luminaire with no backlight shield.

Type II Medium w/Backlight Shield (G)
Backlight shield optics stop backlight at approximately ½ mounting height behind the pole.

Type II Medium w/Partial Backlight Shield (L)
Partial backlight shield optics stop backlight at approximately 1 mounting height behind the pole.

COLOURS

Silver
White
Black
Bronze
Platinum Bronze
LEDway SLM™ Streetlight (XSS Series)

LEDway SLM incorporates scalable light modules designed to replace low to medium wattage traditional cobrahead fixtures. NanoOptic product technology delivers industry leading optimized target illumination performance. LEDway SLM is wet listed and can be mounted to a variety of existing pole configurations and is available with up to 60 LEDs in 10 LED increments.

Key features:

• Sleek, low profile form factor
• Drive current flexibility — 350mA/525mA/700mA/1Amp
• Correlated Colour Temperature (CCT) — 5700, 4000, 3500 or 3000K
• ±5º vertical adjustment with 2 ½º incremental positions
• 10kV surge suppression
• Tool-less entry and quick disconnect harness on power door
• Compatible with networked and non-networked lighting control systems
• IDA approved, UL, cUL Listed, RoHS compliant

LEDway SLM™ IP66 Streetlight (X6S Series)

With more available options, the LEDway SLM IP66, an IP66 rated version of the LEDway SLM, can be mounted to a vertical or horizontal tenon for increased flexibility. In addition, LEDway SLM IP66 is UL, cUL, ENEC, and CE compliant. Product options include an occupancy sensor, two-level capabilities and 0-10V dimming. LEDway SLM IP66 is available with up to 60 LEDs in 10 LED increments.

Key features:

• Sleek, low profile form factor
• IP66 rated
• Drive current flexibility — 350mA/525mA/700mA/1Amp
• Correlated Colour Temperature (CCT) — 5700, 4000, 3500 or 3000K
• Vertical or horizontal tenon mount
• 10kV surge suppression
• Tool-less entry and quick disconnect harness on power door
• Compatible with networked and non-networked lighting control systems
• IDA approved, UL, cUL Listed, ENEC, CE, and RoHS compliant
Example shows a LEDway SLM Streetlight with a Horizontal Tenon Mount, Type II Medium Optics, 40 LEDs, LED Series D, 120-277V Driver, 700mA drive current, NEMA Photocell Receptacle, with a Black Finish.

<table>
<thead>
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<th>XSS</th>
<th>0</th>
<th>2</th>
<th>04</th>
<th>D</th>
<th>U</th>
<th>D</th>
<th>R</th>
<th>T</th>
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</thead>
<tbody>
<tr>
<td>Product</td>
<td>Mounting</td>
<td>Optic</td>
<td>LED Count</td>
<td>LED Series</td>
<td>Voltage</td>
<td>Drive Current</td>
<td>Options (Factory Installed)</td>
<td>Colour Options¹</td>
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<td>Type II Medium</td>
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<td>D</td>
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<td>120-277V</td>
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<td>Horizontal Tenon</td>
<td>Type II Medium</td>
<td>02</td>
<td>20</td>
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<td>Type III Medium</td>
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<td>30</td>
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<td>120-277V</td>
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<td>120-277V</td>
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<td>120-277V</td>
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<td>Horizontal or Vertical Tenon</td>
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<tr>
<td>XSS</td>
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<td>Type IV Medium w/backlight shield</td>
<td>5</td>
<td>Type IV Medium</td>
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<td>XSS</td>
<td>Horizontal or Vertical Tenon</td>
<td>Type V Medium w/backlight shield</td>
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<td>11</td>
<td>Type II Short</td>
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</tbody>
</table>

¹All with an anodized aluminum extrusion

**BACKLIGHT CONTROL OPTIONS**

- **Type II Medium (2)**
  - LEDway luminaire with no backlight shield.

- **Type II Medium w/Backlight Shield (G)**
  - Backlight shield optics stop backlight at approximately ½ mounting height behind the pole.

- **Type II Medium w/Partial Backlight Shield (L)**
  - Partial backlight shield optics stop backlight at approximately 1 mounting height behind the pole.

**COLOURS**

- Silver
- White
- Black
- Bronze
- Platinum Bronze
304 Series™ Parking Structure Luminaire
(XCP Series)

304 Series Parking Structure luminaire is an obvious choice for parking structure applications. Since most parking structure luminaires operate 24/7, the energy and maintenance saving benefits from Cree’s 304 Series is even more evident. Add our optional integrated multi-level feature for dramatic supplemental energy reduction and accelerated payback. Multiple mounting options include direct, pendant, and hook and cord offer versatility for a variety of applications.

**Applications:** Parking structure, underpasses and confined-space applications, such as tunnels; soffits and canopies

**Key features:**
- Easy installation with centrally located integrated driver and through-wiring capability
- Multiple mounting options offer application versatility
- Multi-level option with integrated occupancy sensor
- Convenient electrical compartment access from below the luminaire
- Listed on the DLC Qualified Products List
- CE, UL and cUL Wet Listed
- IDA Approved

OL Series™ Luminaire
(XFR Series)

Designed with versatility in mind, the low-profile linear OL Series luminaire is rugged and engineered for long-lasting performance. The luminaire is 4- inches in diameter and adjustable 360° in 5° increments. OL Series luminaires are available in 0.61, 1.22 and 2.44 meter lengths (2, 4 and 8 feet) with 7 or 14 LEDs per 0.30 meters (1 feet).

**Applications:** Exterior façade, sign illumination, and general floodlighting. Interior applications include wall wash and indirect architectural illumination.

**Key features:**
- Step and continuous dimming options
- Better than 85% predicted lumen maintenance at 50,000 hours at 25˚C
- Listed on the DLC Qualified Products List
- CE, UL and cUL Wet Listed, IP66 rated
Nearly one-third of the energy used to run a typical government building goes to waste and could easily be conserved through energy-efficient measures.¹ Cree solutions can be easily adopted for municipal applications. Retrofitting facilities such as city-owned parking structures, public buildings, and other common areas to LED can further compliment significant energy savings and cost reductions yielded from the installation of LEDway streetlights.

¹ http://www.fypower.org/inst/gov/tools

THE EDGE® Parking Structure Luminaire (XPS Series)

Similar to our 304 Series, THE EDGE Parking Structure luminaire offers a wider range of illumination performance with 20-100 LEDs. THE EDGE Parking Structure offers another way to realize significant energy and maintenance savings in such spaces.

Applications: Parking garages, underpasses and other confined-space applications.

Key features:
- Low profile modular design for aesthetic appeal
- Optional integrated occupancy sensor for enhanced energy savings
- Listed on the DLC Qualified Products List
- CE, UL and cUL Wet Listed
- IDA Approved

THE EDGE Security Luminaire (XSE Series)

THE EDGE security luminaires feature a sleek and stylish modular design that delivers clean, uniform illumination for increased visibility and to help maintain a safe environment.

Applications: Wall mounted security and perimeter lighting

Key features:
- Modular design
- Die-cast, extruded-aluminum housing assembly
- Accommodate surface wiring
- CE, UL and cUL Wet Listed
- IDA Approved

THE EDGE TSP (XPS Series)

THE EDGE TSP transportation mount luminaires provide increased visibility and safety for bridges, overpasses, roadways and tunnels with better uniformity while optimizing illumination performance. Mounting options offer versatility - direct mount, catenary or pendant.

Applications: Ideal for illuminating bridges, overpasses, roadways and tunnels

Key features:
- Low-Profile Modular Design
- Through-wiring capability
- Multi-level options
- UL and cUL listed
- IDA Approved

Additional product information can be found at www.ruud.ca/cree
The council is satisfied with the performance of the LED lights, especially with the lower back spill light onto properties. The installation is performing according to design and producing the expected savings compared with a HPS Solution.

— David Dick, Program Manager, Auckland City Council
### Auckland, New Zealand

**ADDED**

**FLEXIBILITY & CONTROL**

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<tr>
<th>CITY STATS</th>
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<tr>
<td>First Installation</td>
<td>2006</td>
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</table>
Exclusive DeltaGuard® Industrial Grade Finish

A long-life luminaire deserves a long-life finish. DeltaGuard is the finest industrial-grade finish available in the industry and is exclusive to Cree products. Our exclusive immersion process sends the product through six cleaning and eight pretreatment stages. An epoxy e-coat is applied before the ultra-durable powder coat finish is applied.

DeltaGuard is truly an outstanding finish that provides longevity of colour quality with:

- Ultraviolet Light Resistance
- Abrasion Resistance
- Superior Adhesion
- Maximum Corrosion Resistance
- Colourfast Protection

5,000 Hour Salt Fog Testing

Cree luminaires with DeltaGuard finish were independently tested for corrosion resistance in compliance with the ASTM B117 standard to 5,000 hours without failure. While others don’t talk about finish warranty, these results prove the durability of our finish and allow us to offer an industry leading 10-year finish warranty.

LEADING THE WAY

Town of Oakville, Halton Region, Ontario, Canada

“...new lighting standards will help us conserve energy, reduce maintenance and energy costs, and improve safety. It’s another step that demonstrates that the town is a leader in environmental and fiscal sustainability,”

— Rob Burton, Mayor, Town of Oakville
**VALUE ADDED BENEFITS**

Town of Oakville, Ontario, Canada

<table>
<thead>
<tr>
<th>CITY STATS</th>
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<tbody>
<tr>
<td>Est. Cost Savings/Year</td>
<td>850K¹</td>
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<tr>
<td>Est. Energy Savings/Year</td>
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<td>Products Replaced</td>
<td>250W HPS</td>
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<td>Funding</td>
<td>Halton Region / Town of Oakville</td>
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<td>First Installation</td>
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</table>

¹After conversion program completion.
5 • 5 •10 Warranty Protection

We stand by the quality of our products and guarantee their performance by offering the following warranty protection:

- Five-year limited warranty on the product and driver
- Five-year limited warranty on the LED light engine
- 10-year warranty on our exclusive DeltaGuard finish

Assistance from Experts in the Industry

Cree, through our professional lighting manufacturers representatives, is ready and able to assist you with any needs you may have. From answering general questions regarding LED technology and our products, to assisting with developing a product specification for your community, we want to help. We are committed to providing whatever level of education and resources you need to succeed with your lighting projects.

BetaLED Technology

Architectural & Commercial/Industrial Luminaires

For additional information on Cree products and solutions, please see our BetaLED Technology full line product catalog.

Download a PDF at www.ruud.ca/cree
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Want more information on how LED technology can benefit your community?

Visit www.ruud.ca/cree

Leading the LED Revolution Together . . . Ruud Lighting Canada is now Cree Canada