

Isn't it about
time somebody got
controls under control?



Cree® SmartCast™ Technology
Wireless LED Lighting Controls





Cree® SmartCast™ Technology

Simply all you need from your lighting.

SPECIFIER

Easy to Design

Lighting controls don't have to be extra work. Lighting control with Cree is as easy as selecting luminaires and switches. No extra devices to specify and no sensor layouts. It's system benefits without system hassles.

INSTALLER

Easy to Install

Install luminaires and switches—get lighting controls. The intelligence is in the fixture! **Step 1:** Install luminaires and switches. **Step 2:** Press one button to set up and calibrate. **Step 3:** Stand back and marvel at the simplicity.

OWNER

Easy to Save

Make your building work for you. Cree® luminaires and switches work together to save you money doing smart things like dim in response to daylight and vacancy. The most productive employee in your building will be your building.

SIMPLY BETTER

OneButton™ Setup

Cree® SmartCast™ Technology luminaires and dimmers automatically learn, calibrate and group, minimizing setup time.

CODE-COMPLIANCE

Without Complexity

Meet emerging building code-compliant projects without additional equipment, design effort or installation labor.

LOWER

Total Cost of Ownership

Dimming Cree® luminaires saves energy and extends lifetime, increasing the energy and maintenance savings over time.

Cree® SmartCast™ Technology

Integrated Sensors

SmartCast Technology products incorporate integrated ambient light and motion sensors to achieve energy savings. Embedded sensors in each luminaire eliminate the need for up-front sensor layout design and allow for reliable detection of occupants and ambient light.

OneButton™ Setup

SmartCast Technology luminaires and dimmers automatically create intelligent groupings with OneButton Setup. The result is smart lighting that meets existing and emerging building codes and installs and sets up easier than comparable lighting control systems.

Wireless Communication

SmartCast Technology luminaires and controls require minimal additional labor to install compared to non-dimming solutions. In new construction and upgrade applications, installers can rely on a secure wireless communication between luminaires and dimmers, eliminating the need for control wiring.



INTEGRATED SENSORS

Monitor vacancy and ambient light levels to reduce energy usage.



ONEBUTTON™ SETUP

Automated luminaire association and configuration using OneButton Setup.





WIRELESS COMMUNICATION

Wireless communication with AES
128-bit encryption for protected operation.

Seamless Integration

Easily transform the lighting of existing or new buildings into an energy-efficient, code-compliant space.

CR Series LED Architectural Troffer

High-performance LED troffer enhanced with SmartCast™ Technology.



Dimmer

Add controls where needed for building code compliance.



Motion Sensing

Prevent idle spaces from wasting energy.



Daylight Harvesting

Reap the benefits of natural light while reducing energy consumption.





Lord Corporation

Global Headquarters - Cary, North Carolina



Smarter Lighting Supports Sustainability.

LORD focuses on investing in people and technology to support their strategic priorities and continue to function as a sustainable company. The SmartCast™ Technology daylight harvesting helps achieve this goal by reducing energy usage in response to the presence or absence of natural light.

"In addition to the positive environmental impact, the savings afforded by the Cree® LED luminaires and the SmartCast™ Technology daylight harvesting will enable us to invest in developing more innovative and environmentally friendly solutions for our customers."

John Gardiner

Manager, Facilities Services, LORD Corporation

N.C. State University

North Hall - Raleigh, North Carolina



Better Lighting for Better Learning.

N.C. State residence halls are more than just buildings, they are affordable living-and-learning centers equipped with state-of-the-art LED lighting technology to help meet the university's sustainability goals. Adding SmartCast™ Technology and leveraging the motion sensors assures energy is being used only when required. Empty spaces will contribute to these goals by preserving electricity.



"When overseeing dozens of campus housing environments, it is critical to keep expenses to a minimum. Vacancy mode guarantees we are saving energy when students are away."

Peter Fraccaroli / Facilities Manager, Campus Life, N.C. State University



SmartCast™ Technology Luminaires

CR Series Architectural Troffers

CR Series LED Architectural Troffers with SmartCast™ Technology incorporate integrated ambient and occupancy sensing and wireless communication to deliver exceptional lighting performance, achieve additional energy savings over non-controlled solutions and extend product life.

- *Ambient light and motion sensors*
- *Cree TrueWhite® Technology*
- *120V-277V*



CR24™



CR22™



CR14™

KR Series Downlights

KR Series LED specification downlights with SmartCast™ Technology incorporate integrated ambient and occupancy sensing and wireless communication to deliver exceptional lighting performance, achieve additional energy savings over non-controlled solutions and extend product life.

- *Ambient light and motion sensors*
- *Cree TrueWhite® Technology*
- *120V-277V*



KR6™



KR4™

CS Series Linear Luminaires

CS Series LED linear luminaires with SmartCast™ Technology incorporate integrated ambient and occupancy sensing and wireless communication to deliver exceptional lighting performance, achieve additional energy savings over non-controlled solutions and extend product life.

- *Ambient light and motion sensors*
- *Cree TrueWhite® Technology*
- *120V-277V*



CS18™



CS14™

SmartCast™ Technology Components



Single Dimmer



Single Switch

Dimmers and Switches

Wireless Dimmers or Switches provide manual control of Cree® luminaires with SmartCast™ Technology.

- *Intuitive aesthetic*
- *Fits decorator style opening*
- *Matching faceplates available*
- *120V-277V*



0-10V Interface

0-10V Interface

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

- *Ambient light and motion sensors*
- *120V-277V*



Configuration Tool

Configuration Tool

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

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

