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

# CREE® SMARTCAST® TECHNOLOGY

## WIRELESS LED LIGHTING CONTROLS

**CREE**

**CREE ◆** | **SMARTCAST®** TECHNOLOGY

**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.

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**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.

## CREE LED TROFFERS

High-performance LED troffers enhanced with SmartCast® Technology.

## DIMMER

Add controls where needed for building code compliance.

## MOTION SENSING

Prevent idle spaces from wasting energy.

## DAYLIGHT HARVESTING

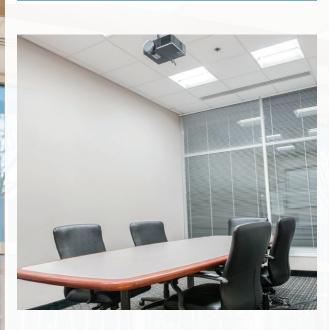Reap the benefits of natural light while reducing energy consumption.

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## 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*

**CREE⇔** | **SMARTCAST® TECHNOLOGY**

# SMARTCAST® TECHNOLOGY LUMINAIRES

## CREE LED LUMINAIRES
## WITH SMARTCAST® TECHNOLOGY

Cree LED 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. And in Cree's continuing spirit of innovation, CR Series troffers with Cree SmartCast® Technology offer field-adjustable color temperatures that make "smart" lighting design a cinch. Projects are simplified by allowing one troffer to be used in any space regardless of color temperature preference.

### CR SERIES TROFFERS

CR24™          CR22™          CR14™

### ZR SERIES TROFFERS

ZR24™          ZR22™          ZR14™

### KR SERIES DOWNLIGHTS

KR6™

KR4™

### CS SERIES LINEAR
### LUMINAIRES

CS14™          CS18™

### LN SERIES SUSPENDED
### AMBIENT LUMINAIRE

LN4™

## SMARTCAST® TECHNOLOGY COMPONENTS

### 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*

Single Dimmer    Single Switch

### 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*

0-10V Interface

### CONFIGURATION TOOL

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

Configuration Tool

**CREE ⬥ | SMARTCAST® TECHNOLOGY**

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

**CREE**