INDUSTRIAL & OUTDOOR INTELLIGENT LIGHTING
ENABLED BY SYNAPSE® SIMPLYSNAP
Intelligent Lighting Controls

FROM NEXT-TO-IMPOSSIBLE TO NEXT-GEN IN A SNAP.

Until recently, installing advanced lighting controls for industrial and outdoor environments was rarely worth the effort, headaches and expense. Now all that’s changed — Cree Lighting, together with Synapse®, is delivering smart control solutions for industrial facilities, parking structures and lots, auto dealerships and more — all the environments where physical challenges have defeated traditional control solutions.

Like Cree Lighting’s SmartCast® Technology solutions for indoor commercial and office environments, SimplySNAP by Synapse® provides an intuitive, affordable intelligent lighting control solution that delivers energy savings — up to 70%. And like SmartCast® Technology, SimplySNAP opens the door to advanced capabilities for data analytics, business value and human-centric lighting.

SIMPLICITY THAT LIVES UP TO ITS NAME
SimplySNAP lighting controls extend Cree Lighting’s ethos of “technology so simple, it just works” to outdoor and industrial venues with solutions that are straightforward to specify and easy to install. Intuitive controls create an enhanced user experience and a more productive environment — and no Internet connection is required, so IT security is simpler.

When you are ready to connect to the larger world? Cree Lighting luminaires with SimplySNAP solutions offer a secure, scalable platform that works seamlessly with smart building applications to further amplify savings and business value.
SimplySNAP Technology

WORKS AROUND CORNERS. BUT NEVER CUTS THEM.

Easy to install. Intuitive to use. Almost effortless to customize for different environments or business needs. Synapse® SimplySNAP intelligent lighting controls for Cree Lighting luminaires have overcome the structural and topographic challenges of outdoor and industrial environments to deliver maximum energy savings and responsive illumination—setting the stage for a better lighting experience from every angle.

- No IT or integration worries: SimplySNAP does not require an internet connection, any costly integration or 3rd-party hardware/software.
- Configure and control from anywhere: the browser-based, intuitive user interface works on your PC, tablet and smartphone.
- Visibility whenever you need it: each device’s location is displayed on a map with a few easy clicks.
- Smart monitoring to save costs: stores and gives you real-time access to the data you need for optimal energy performance and simplified maintenance.
- Customizable control for value beyond savings: makes it easy to program lighting zones and scenes, or trigger automated events to further enhance the lighting environment and experience.

FLEXIBLE OPTIONS
With benefits like this, Cree Lighting has literally made specifying a snap. Installation is equally simple, lowering your labor costs, risks, callbacks and truck rolls.

The wireless technology also speeds installation, as well as commissioning and setup. Plus the HTML5 application-based configuration and control lets you do both remotely without headaches or hassles.

ENABLES MAXIMIZED SAVINGS
SimplySNAP intelligent lighting controls for Cree Lighting luminaires can dramatically increase the value of your LED lighting network. Daylight harvesting, automated dimming and task tuning, when combined with the efficiency of LED technology, slashes your energy costs as much as 70%.

EASY DAYLIGHT HARVESTING & AUTOMATED DIMMING
Ambient light and motion sensors ensure both optimal energy savings and human convenience. Daylight harvesting monitors the amount of ambient light in an area, automatically adjusting light levels to conserve energy. When areas are vacant, lights dim to save energy. If movement is detected in a designated area, any dimmed lights return to their original brightness for security and safety.
LETS YOU EASILY PROGRAM ZONES, SCENES, EVENTS, AND SCHEDULES
The Synapse® SimplySNAP System gives you multiple options to control light levels and schedule triggered events, such as dimming or switching luminaires based on time of day. Motion and ambient light sensors can be set and monitored for individual luminaires and for designated zones.

FLEXIBLE & FUTURE READY
Each secure, 2.4 GHz wireless mesh network connects as many as 1,000 luminaires to a SimplySNAP site controller up to a mile away with commercial-grade AES 128-bit encryption. Because the network is securely integrable, it’s easily scalable—you can upgrade software, add controls, or link to your BMS without replacing the existing system.

SIMPLE TO INSTALL, CONFIGURE & USE
SimplySNAP may be the simplest system on the market. You need less hardware to control the same number of luminaires. Changes in the field after initial installation are faster and easier. The intuitive browser-based interface makes it a snap to configure and maintain your lighting network, and you can remotely manage your system with an Ethernet or wireless connection to your PC, tablet or smartphone.

ENSURES MAXIMUM SECURITY
Integrated or stand-alone—either choice is worry free. SimplySNAP can be managed locally via LAN or via the WPA2-PSK-secured Wi-Fi interface, with no Internet connection needed. Security is made easy with enforced password complexity with time delay and unique secure sign-ins for multi-user environments.
Technology / Application

Technology

THIS NETWORK IS ALL ABOUT TEAMWORK

In the SimplySNAP mesh network, each Cree Lighting luminaire is wirelessly linked to as many of its neighbors as possible to create multiple paths for reliable and robust communications. When the line of site between the luminaire and controller is blocked by obstructions or outdistances the signal, the network relays communications across a series of luminaires to get around obstacles and boost signal strength.

SIMPLE APPLICATION FLEXIBILITY
SimplySNAP integrated controls make energy savings, code-compliance, and customization quick and easy with Cree Lighting KBL™ high-bay luminaires.

IN-FIELD ADVANTAGE
Cree Lighting OSQ™ area luminaires are transformed into intelligent lighting nodes with the field-installed SimplySNAP Twist-Lock Controller.
ENVIRONMENTAL AWARENESS FOR REAL-TIME CONTROL

Cree Lighting luminaires with SimplySNAP controls have sensors that continually detect and share data, monitoring energy consumption, ambient light and occupancy to fine-tune your environment and cost-saving strategies in real time. Data flows automatically and transparently, allowing lights to turn off or on and dim up or down automatically.

THE HEART OF THE TEAM

One on-site controller supports up to 1000 luminaires, with no special server required. Intuitive and web-based, this interface lets you manage your system via Ethernet or wireless connection to a PC, tablet, or smartphone, and gives you quick access to stored data on power, zones, triggers, alarms and critical events for easy analytics, maintenance and troubleshooting.

TALK ABOUT MULTI-TALENTED

IG™ parking structure luminaires can guide drivers through multiple levels, signal maintenance if problems arise and improve energy savings when using SimplySNAP control solutions.
INDUSTRIAL SOLUTIONS
KBL Series High-Bay

A MORE PRODUCTIVE WORK FLOOR BEGINS NEAR THE CEILING.

Start with the right fixture: the tough, efficient and versatile KBL™ High-Bay Luminaire, an ideal choice for most industrial facilities, light manufacturing, warehouses, depots and athletic venues.

Next, specify factory-integrated SimplySNAP controls to transform the KBL luminaire from a cost-cutting workhorse into a champion of advanced savings and productivity:

- Reliable mesh network works around high-stack shelving, pylons, cranes and other obstructions.
- Occupancy/vacancy monitoring cuts energy costs and boosts productivity
- Utility grade power monitoring provides real-time visibility into energy costs and loads
- Alerts and notifications inform you of signal loss, luminaire status, unexpected motion and other events
- 365-day calendar/scheduling for “set-it-and-forget-it” lighting plans
- BACNet compatible: integrates with third-party building management systems and platforms
KBL SERIES

**PERFORMANCE SUMMARY**

- **Initial Delivered Lumens:** 9,000 - 30,000 lumens
- **Input Power:** 62 to 190 watts
- **Efficacy:** Up to 156 LPW
- **CRI:** 70 or 80+
- **CCT:** 3000K, 3500K, 4000K, 5000K
- **Mounting:** Universal mounting easily converts to support pendant or hook & cord installations
- **Weight:** Maximum 14 lbs. (6.4kg)
- **Limited Warranty:** 5 years on luminaire; up to 5 years for Synapse® accessories; 1 year on luminaire accessories; 10-year luminaire warranty option also available
- **SimplySNAP solutions:** Integrated Synapse® Wireless Controller, Network Sensor options; and Wireless Control Accessories

**SYNAPSE® WIRELESS CONTROL ACCESSORIES**

- SimplySNAP Central Base Station CBSSW-450-002
- Wireless Sensor WSN-DPM
- Daylight Harvesting Kit KIT-SBOX-DLH
- Building Management System (BMS) Gateway BMS-GW-002

The **SimplySNAP On-Site Controller** site controller serves as the heart of your lighting solution, allowing local control without the Internet using the Synapse® SimplySNAP solution.

The **BMS Gateway** serves as the bridge between the SimplySNAP Intelligent Lighting Solution and a Building Management Systems (BMS). This integration makes managing and maintaining all of your facility’s commercial and industrial automated applications through one system possible.

The **Wireless Sensor** measures occupancy and/or light levels in an area and sends those measurements to the on-site controller. A single sensor can be used to direct the behavior of an entire group of lights in the same zone.

The **Daylight Harvesting Kit** measures changes to the natural light levels in an area and sends those measurements to the on-site controller. Groups of lights are then dimmed up or down to maintain the desired level based on the application.
TAKE LIGHTING CONTROL TO THE NEXT LEVEL.

Historically, lighting control in parking lots or structures has been difficult, expensive or simply not practical. Traditional hard-wired and wireless control options have been faced with various obstacles — both physical and functional.

Cree Lighting’s IG Series and OSQ Series together with the Synapse SimplySNAP wireless control solution eliminates the headaches of the past and makes way for an intelligent parking solution.

- Reliable mesh network works around concrete buttresses, corners, trees, buildings, signage, displays, hills, low spots and other line-of-sight obstructions
- Utility-grade power monitoring provides real-time visibility into energy costs and loads
- Managing lighting needs in different levels and zones
- Schedules for adjust dimming levels to conserve energy
- Create scenes to apply behaviors across groups of lights
- Alerts and notifications inform you of signal loss
- Daylight harvesting to adjust lights with changing natural light
- BACNet compatible: integrates with third-party building management systems and platforms
The SimplySNAP Central Base Station serves as the heart of your lighting solution, allowing local control without the Internet using the Synapse® SimplySNAP solution and can be mounted outdoors.

The SimplySNAP Twist-Lock Controller is a simple, field-installed enhancement for a luminaire with a NEMA® 7-pin receptacle. The controller is packaged with a full set of smart goodies - wireless communication, dimming, photocell, and utility grade power metering.

The Wireless Sensor measures occupancy and/or light levels in an area and sends those measurements to the on-site controller. A single sensor can be used to direct the behavior of an entire group of lights in the same zone.

The Daylight Harvesting Kit measures changes to the natural light levels in an area and sends those measurements to the on-site controller. Groups of lights are then dimmed up or down to maintain the desired level based on the application.

The BMS Gateway serves as the bridge between the SimplySNAP Intelligent Lighting Solution and a Building Management Systems (BMS). This integration makes managing and maintaining all of your facility’s commercial and industrial automated applications through one system possible.
JUST AT THE POINT
THINGS TEND TO GET
COMPLICATED, WE’VE
MADE SURE THEY
STAY SIMPLE.

When you’re ready to move from a solution that looks great on paper to one that performs above your expectations on site, we couldn’t make it any more straightforward.

AS IN SIMPLE TO SPECIFY...
Factory-integrated, plug-and-play Synapse® solutions are extensively tested with Cree Lighting luminaires to ensure complete compatibility, UL listing and warranty compliance, and flawless performance.

SIMPLE TO INSTALL...
The wireless infrastructure of the SimplySNAP mesh network dramatically simplifies installation — no long runs of wire from luminaires to the controller, no complex busses, switches and other components of a hard-wired system.

SIMPLE TO COMMISSION AND SET UP...
Commissioning is quick, simple, intuitive, and can often be accomplished remotely — along with user training via online webinars — to keep costs down. Prefer hands-on commissioning and on-site training? That’s available too.

Ready to get outdoor and industrial lighting under control?
Visit creelighting.com/SimplySNAP or contact a Cree Lighting representative to learn more.