We’re Lighting for Learning.

Better Light for a Better Education Experience
Cree Lighting is part of the IDEAL INDUSTRIES family of companies. Like most families, we’re committed to building a better world for our children – and that starts with education.
Bringing the Best Educational Experience to Light.

We want educators to know that our solutions for schools and universities do so much more than provide lighting.

We offer intelligent lighting solutions with advanced lighting control and color changing technology that allow you to create an overall scene tailored to the needs of any education space. You can customize the space to keep students focused and alert, to optimize for presentations and distance learning, and to improve safety and security with zone- and room-level emergency signaling and wayfinding.

These same lighting solutions help you meet code compliance and conservation mandates while applying maximum dollars to learning assets, not to paying utility bills.

All this lighting technology quickly pays for itself in energy and maintenance savings, yet lasts so long that a child entering the first grade now might graduate college during its useful life.

Whatever your challenge, we share your commitment to the next generation.

The Employees of Cree Lighting
“The next generation is our most important resource, so lighting innovations that help students learn in a safe and secure environment are a critical investment for every educational institution. We're committed to putting exceptional lighting experiences within reach of every student, teacher and administrator by making our learning environments better — more comfortable, productive, healthy, efficient and safe.

Craig Atwater
General Manager, Cree Lighting
Intelligent Lighting for Teaching, Learning and Working. Now Shipping.

If the next generation is our most important resource, creating sustainable, optimized learning environments is our wisest investment.

Pure white light helps improve productivity all through the school day, inside the classroom and out. Cree Lighting’s solutions for K-12 and higher-education facilities deliver lighting that makes a difference — crisp, uniform illumination for the educational environment to make clear what was obscure.
With a customer-focused pursuit of game-changing innovations, Cree Lighting has created industry-first lighting solutions that can serve as a practical touchstone to the rhythm of the day to help students stay more focused and alert — naturally.

We offer solutions designed to help an aging educational workforce perform better, complement new technology in the classroom and make all spaces more inviting, comfortable and safe.

Additionally, Cree Lighting provides a cost-effective solution — dramatically reducing energy and maintenance-related costs for institutions and taxpayers, while acting as a cornerstone for net-zero and net-positive carbon footprint initiatives, freeing dollars for more direct investment in other education initiatives.

When it comes to lighting for education, the future is brighter than ever.

Read the case studies
Full-spectrum, flicker-free lighting has students and staff alike enjoying vastly improved visibility in classrooms, offices and common areas, while better-lit grounds, pathways and parking areas enhance safety and security.
Bringing the Outdoors into Our Learning Spaces.

Ongoing research continues to link the importance of natural light to human health, mood and productivity. Yet millions of students and administrators in educational facilities spend their days in walled-off interiors starved of natural light.

Cree Lighting’s game-changing dynamic skylight solution realistically recreates the sensory experience of being under a natural sky. The Cadiant™ Dynamic Lighting Experience recreates the sun’s dawn to dusk, east-to-west movement across the sky – and the gradual change in color temperature of the light – with astounding realism. The result is a unique lighting experience that captivates and energizes as it creates a sense of connection to the outdoors.
Set the Stage with an Intuitive Touchscreen.

This innovative design with separate sun and sky panels uses advanced lighting control and color-changing technology enabled by SmartCast® to help create an overall scene that fits the needs of each space.

• Standard presets and programmable profiles create a daylighting solution that enhances the experience of the people in the space.
• Dawn, Morning, Midday, Afternoon and Evening presets are also standard; users can easily create and save their own presets with simple control over the light levels and colors profiles.
• Preloaded profile designed specifically for schools included, with the ability to change sky color, CCT and position.
• SmartCast® Technology allows nearby fixtures to harmonize with illumination changes from Cadiant™ luminaires.
• Stand-alone system eliminates IT hassles and specification roadblocks.

Research continues to underscore lighting’s central role in learning and mood support. Solutions like our Cadiant™ Dynamic Lighting Experience bring interior spaces alive with a sense of connection to the outdoors.

There is a lesson in how we speak about learning.

With two-thirds of the brain devoted to visual processing, no wonder we speak of “bright” students, “dazzling” intellects and “light bulb” moments. Optimal classroom lighting is more than a utility – it’s the ultimate visual aid.

Cree Lighting solutions provide classrooms with exceptional clarity and consistent full-spectrum lighting without the flicker to help increase alertness, reading comprehension and accuracy while delivering the kind of light shown in studies to result in better student work habits, improved academic performance, lower fatigue and more positive attitudes. All in support of that pivotal moment when the student says, “Now I see.”

“When we say we want to bring meaningful innovations to our schools and universities, we’re talking about breakthroughs like the award-winning Cadiant™ Dynamic Lighting Experience.”

Jeff Hungarter, Cree Lighting
Cadiant™ Dynamic Lighting Experience

Stylus™ Linear Series

ZR Series Troffers

FLEX Series Troffers

CR Series Troffers

ZR-RK Retrofit Kit

LS Series Surface / Suspended Ambient

LSQ Series Surface / Suspended Ambient

KR Series Downlight

Essentia Series Downlight

CR-T Series Retrofit Downlight

LRX Series Retrofit Downlight

Click on product photo for more info
Lighting for Keynotes, Accolades and Encores.

Whether the focal point is a lecturer’s slides, a live demonstration or a recital, our lighting and control solutions for auditoriums, lecture halls and similar venues adapt flawlessly to the needs of the moment.

For these unique spaces requiring responsive lighting across diverse scenarios, Cree Lighting’s instant-on, fully dimmable and color-tunable fixtures ensure every performance is visually impressive, while our optical technologies improve visibility, reduce screen glare and ease the strain of reading and note-taking.

The Stylus™ Linear Series is perfect for higher-end open-ceiling learning environments to subtly define the ceiling plane and create a more intimate sense of space while providing excellent task and ambient lighting.
AUDITORIUMS AND LECTURE HALLS

Click on product photo for more info

KR Series Downlight
Essentia Series Downlight
Stylus™ Linear Series
LS Series Surface / Suspended Ambient
LSQ Series Surface / Suspended Ambient
KBL Series High/Low-Bay
Pro Series Lamps
No Rocket Science Required. Just Simply Geometry.

Minimalist concepts are trending in new architectural and lighting designs for education spaces. The Stylus™ Linear Series is perfect for higher-end open-ceiling learning environments, with a straight-edge form factor that can be arranged in creative geometric patterns or entrained in long runs of crisp, uniform illumination that tie together lines of sight.

- The ultimate in flexibility, with seven combinations of optics and mounts to mix and match.
- A housing design that will fit virtually any ceiling type, so no education application is out of reach.
- Available in three color temperature options with ultra-smooth dimming to 1%.
- Industry-leading color fidelity, beautiful white light and vibrant natural colors.
- Horizontal corners for geometric patterning offer expanded creativity for space design.
- A diverse selection of intelligent lighting controls offers greater savings, scene-setting, code compliance and a customized lighting experience, whether for a gathering space, library, lobby or auditorium.
Not All Educators Work in Classrooms.

Comfortable, inviting spaces that boost productivity aren’t just for students and instructors. Administration, aka the office, is a critical hub of scheduling, coordination and planning. Our solutions for office areas provide crisp, low-glare, color-accurate illumination that relieves eye strain, eases fatigue, aids in cognition and supports accurate screen- or paper-based task work.

Our controls-enabled fixtures allow administrative staff to enjoy a responsive lighting experience and to even dial in individualized preferences based on time of day or activity, while providing rapid payback and real long-term savings.

“One of the qualities we like is the ability to make adjustments. I like my lights on full blast. Next door, they want 80%. I’m still saving 20% on my energy use while the person next door is saving even more and they’re happy with their amount of light. The ability to have a hand-held programmer controller allowed us to make adjustments quickly and easily.”

Chris Manus, San Diego Community College District
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Visual Harmony and Efficiency Across Your School and Campus.

We spend 90% of our time indoors – but not sitting still. Throughout the day, students, educators, staff and visitors move through hallways and stairwells, and gather in lobbies and libraries, cafeterias and lounges, student centers and dorms.

Cree Lighting solutions harmonize these areas with low-glare, uniform lighting for optimal visibility and enhanced safety. The result is visually pleasing illumination that produces faithful colors and optical clarity to help reduce stress and fatigue while helping to improve cognition and mood support. Meanwhile, our low-maintenance, long-life fixtures free up facilities personnel and equipment for use elsewhere.

"The daylight sensing feature helps make sure we’re considering the light coming in from outside and are only using the amount of light from the fixtures that we need. The consistency and quality of the light we’re seeing is great."

Mark Sorrell, North Carolina State University
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Lighting That Guides, Reveals and Comforts.

Good lighting invites participation in recreational activities while improving safety and lowering costs. In sports venues and athletic facilities, our solutions give players, spectators, security staff and camera operators a clearer vista, offer excellent control of light spill and glare, and eliminate “strike time” delays and the need to constantly service fixtures on high poles and towers.

And Cree Lighting solutions are built for the wear and tear these spaces see while transforming them with better light quality, lower maintenance and bigger savings.

“There was a dramatic increase in the quality of light and the lighting makes pictures more visible on security cameras.”

Rhys Petee, Peak Electric on the Toledo Public School System project
RECREATION

Click on product photo for more info

- KBL Series High/Low-Bay
- HXB Series High-Bay
- CPY Series Canopy
- OSQ Series Area
- OSQ-HO Series Area
- OSQ Series Flood
- 304 Series™ Flood
- Edge™ Series Area
- Edge™ Series Flood
- Noctura Series Area
- Noctura Series Wall Mount
- Noctura Series Flood
- OL Series Flood

Photo courtesy of Milwaukee School of Engineering
Creating a Clear Path to Achievement.

Indoors and outdoors, day and night, wherever people gather, Cree Lighting solutions create well-lit spaces and clear lines of sight to move people with confidence along hallways and sidewalks, between buildings and parking, to performance halls, dormitories, bus stops and other facilities.

Our excellent color rendering and uniform illumination aid in the recognition of faces, legibility of license plates and the identification of vehicles. Adding a control solution allows your outdoor lighting to respond to motion, calibrate to ambient light, deliver zone control and visual signaling – all while enabling even deeper energy savings.

Many Cree Lighting outdoor solutions are available in the warmer color temperatures preferred by schools that adjoin residential environments while offering precise optical features to prevent light spillover and unwanted uplight.
Click on product photo for more info
Smarter Lighting. Smarter Schools.

Create the right setting for any learning environment.

As campuses evolve and expand, building systems have to be flexible enough to meet the needs of constantly-changing student environments and new instructional formats. Originally designed to save energy, lighting controls are now important tools for learning, safety and security.

Cree Lighting’s intelligent lighting control solutions deliver a secure, dynamic learning environment while simplifying and automating code compliance to provide deep energy savings, function as a powerful learning aid in the classroom, and can serve as an evolving “central nervous system” connecting school utilities, HVAC, security and safety systems.
Cree Lighting is committed to delivering meaningful innovations that deliver **better, more intelligent learning experiences** through our lighting solutions.

SmartCast® Technology orchestrates the optimal environment for energy efficiency and learning by setting parameters for brightness and color, adjusting color temperatures to tasks and teacher preferences, and tracking improvements.

In addition, the SmartCast Intelligence Platform™ delivers advanced lighting controls on a platform uniquely future-enabled for smart building and Internet of Things (IoT) applications.

Our open standards ensure that as your needs change and new technologies come online, your SmartCast® network will stay at the head of the class.

- **Intuitive** – Self-commissioning lighting networks and an easy-to-use touchscreen give teachers and staff fingertip lighting control with scene-staging capabilities.
- **Secure** – The SmartCast® platform was built from the ground up with industry-leading IT-level security practices and protocols in both stand-alone and web-enabled configurations.
- **Open** - Our API offers an industry-standard interface allowing third-party development of virtually limitless IoT applications and interoperability.

Download the infographic **LEARN MORE**
Synapse® SimplySNAP Wireless Lighting Controls

With Synapse® SimplySNAP Wireless Lighting Controls, Cree Lighting luminaires bring intuitive intelligent lighting control to area, parking and athletic spaces throughout education facilities and campuses.

SimplySNAP by Synapse® provides an intuitive, affordable intelligent lighting control solution that delivers energy savings up to 70% while opening the door to advanced capabilities for data analytics, business value and human-centric lighting.

- Configure and control the network either on-site or remotely.
- No Internet connection, costly integration, third-party hardware or software required.
- Stores and offers real-time access to data needed for optimal energy performance and simplified maintenance.
- Control and customize light levels and set event triggers via schedules, light sensors, and motion sensors.
- Store and access data on schedules, power, zones, triggers, alarms and critical events for analytics, maintenance and troubleshooting.
- Upgrade software, add controls and link to your BMS without replacing the existing system.

See how intelligent, intuitive lighting control can deliver

LEARN MORE
Fingertip Control of Your High-Bay Lighting

Until now, applying control schemes to athletic spaces has been difficult and expensive, hampered by irregular floorplans, cavernous spaces, cluttered airspace and high ceilings. All of which makes traditional lighting controls highly impractical or nearly impossible. The KBL Series overcomes those challenges with a simple, secure and reliable 2.4 GHz wi-fi mesh network that works around obstacles and across expansive layouts.

• **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 and Future-Ready** - Each secure, 2.4 GHz wireless mesh network connects 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 and 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.

See how intelligent, intuitive lighting control can deliver LEARN MORE
Lutron Lighting Control Solutions

Offering a range of scalable control solutions, including Lutron Vive wireless solutions, Lutron EcoSystem and Limelight by Lutron, Lutron delivers the full potential of lighting energy savings, personalized control and centralized lighting management throughout the campus, allowing educational institutions to start with control in a single classroom or library, and expand as time and budget allow.

• Dimming – Includes factory-installed controls, wireless daylight sensors, occupancy sensors and Pico remote dimmers to provide a full range of lighting control options to instructors and students in the space.
• Integration – Tie lighting control system into other building management controls via BACnet.
• Enterprise Vue cloud software provides remote control and management, supporting code compliance and campus security initiatives.

Find out how Lutron can help you create the right environment

LEARN MORE