Lighting



Graybar®

Application-Based Lighting Solutions
for Learning Environments

A practical guide to choosing the right lighting—space by space.

Every facility has unique lighting needs. By focusing on how each space functions, this guide helps you simplify lighting decisions and identify solutions that can support performance, safety, efficiency, and long-term value. Graybar can connect you with proven solutions from trusted manufacturers—so you can move forward with confidence.

1. Classrooms & Learning Spaces
2. Lecture Halls & Collaboration Areas
3. Hallways, Cafeterias & Common Areas
4. Gymnasiums & Athletic Spaces
5. Parking Lots, Walkways & Campus Security
6. Athletic Fields & Stadiums



Indoor Lighting

Education Spaces & Considerations

1 Classrooms & Learning Spaces



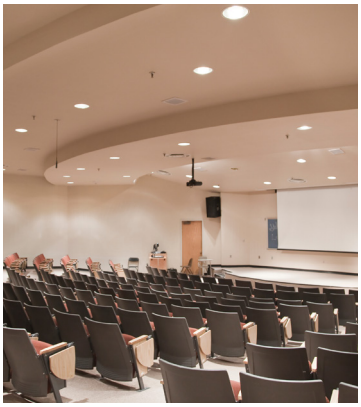
PROBLEM

- Poor lighting conditions can contribute to eye strain and fatigue, affecting student and teacher comfort. (CCOHS)
- Inadequate lighting can negatively impact concentration, alertness, mood and learning performance.
- Fixed lighting levels may not provide the flexibility needed for group work, presentations and digital learning activities.

SOLUTION

Graybar can help you create more comfortable, adaptable learning environments with LED lighting and controls that improve visibility, reduce glare and support different teaching and learning activities throughout the day.

2 Lecture Halls & Collaboration Areas



PROBLEM

- Poor lighting can affect comfort during lectures and presentations.
- Fixed lighting levels may not support a variety of learning activities.
- Manual lighting controls may limit opportunities for energy savings and efficient operation of multipurpose learning spaces.

SOLUTION

Graybar can help you improve student engagement and occupant comfort with lighting and controls that support presentations, collaboration and technology-based learning. Smart controls can also help optimize energy use across multipurpose spaces.

3 Hallways, Cafeterias & Common Areas



PROBLEM

- Inadequate lighting can reduce visibility and comfort in high-traffic school areas.
- Limited lighting controls may reduce energy-saving opportunities.
- Lighting accounts for approximately 17% of electricity consumption in U.S. commercial buildings, making efficiency improvements an important opportunity for schools. (ENERGY STAR)

SOLUTION

Graybar helps improve efficiency and occupant comfort with LED lighting, occupancy sensors and smart controls that are designed to provide more reliable illumination, reduce energy consumption, and support a variety of educational spaces. Long-life LED solutions can also help reduce maintenance requirements and disruption throughout the facility.

4 Gymnasiums & Athletic Spaces



PROBLEM

- Uneven lighting can affect visibility during athletic activities and school events.
- Fixed lighting levels may not provide the flexibility needed for sports, assemblies, performances and other multipurpose activities.
- Outdated fixtures can increase energy consumption, maintenance requirements and operating costs.

SOLUTION

Graybar can help create high-performing athletic environments with LED lighting and controls that improve visibility, support a variety of activities and events, and reduce maintenance requirements. Lighting systems can achieve energy savings of up to 80% when coupled with smart controls. (NEMA)



Outdoor Lighting

Safety, Visibility & Campus Experience

5 Parking Lots, Walkways & Campus Security



PROBLEM

- Insufficient or uneven lighting can reduce visibility for drivers and pedestrians, creating dark spaces and potential safety concerns.
- Dark pathways and inconsistent lighting can make it more difficult to navigate campus, attend evening events, and identify potential hazards.
- Without smart controls, outdoor lighting may consume more energy than necessary during low-traffic periods.

SOLUTION

Graybar can help improve campus safety and security with reliable outdoor lighting and smart controls that enhance visibility, support surveillance efforts, improve wayfinding and reduce energy consumption through automated operation.

6 Athletic Fields & Stadiums



PROBLEM

- Poor visibility can affect athletic performance and spectator experience.
- Inconsistent lighting coverage may create shadows and uneven playing conditions across fields and stadiums.
- Outdoor lighting systems that lack modern controls may increase energy consumption and operating costs.

SOLUTION

Graybar can help you improve outdoor athletic environments with lighting and controls designed to enhance field visibility, support spectators, improve energy efficiency and withstand demanding outdoor conditions.

Five Ways to Upgrade Education Lighting

In the ever-changing world of LED lighting manufacturers, features and technologies, there are five strategies you can use to retrofit the lighting in your education facility.

RELAMP

Replace fluorescent or HID with LED lamp and existing ballast.

i.e. storage rooms, restrooms, stairwells

- Inexpensive
- Easy Installation
- Life dependent on existing ballast
- Difficult to control



RELIGHT

Replace fluorescent or HID with LED lamp and driver.

i.e. hallways, cafeterias, common areas

- Inexpensive
- Electrician needed
- Optimal system compatibility
- Good dimming controls





RETROFIT

Replace existing lamp, ballast and interior with LED Kit.

i.e. classrooms, computer labs, media centers

- Electrician needed
- Better dimming controls
- Change the look of your ceiling with a whole new look for your fixtures



REPLACE

Remove existing fixture and replace with similar light level LED fixture (1 for 1).

i.e. lecture halls, libraries, collaboration spaces

- Electrician needed
- Best dimming controls
- A whole new look for your ceiling
- Optimal fixture compatibility

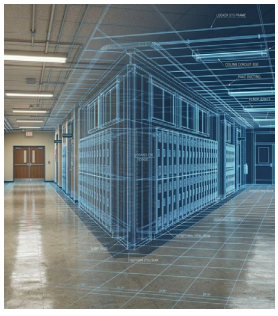


REDESIGN

Redesign space and fixtures to recommended light levels with controls.

i.e. gymnasiums, performing arts centers, student unions

- Most expensive
- Best payback
- Best options for sensors and digital integration
- Achieve the best lighting distribution and quality for room application
- Redesign your space and lighting to suit your needs



Unlock the Potential of LED Lighting

Installing LED lighting is a great first step toward a brighter, more efficient facility Pairing LEDs with wireless controls can unlock even greater savings, flexibility and convenience—making it easier than ever to modernize your educational facility.

Save Up to 30% More Energy with Wireless Lighting Controls

Automatically turn lights on/off, dim unoccupied spaces and adjust lighting based on available daylight to maximize energy savings.

Wireless Lighting Controls Have Evolved

Today's wireless controls are more affordable, reliable and easier to install without wiring, compatible with virtually any fixture or BMS, and can be managed from a smartphone app.

Enhance the Classroom with Color-Changing Control

New controls allow teachers to easily tune light color, with the potential to improve mood, behavior and attention for different types of activity.

Impact on Student Productivity

Studies have linked controllable lighting in the classroom to improved behavior, mood, alertness and attendance.

A Clear Path Through Lighting Decisions

How Graybar Supports Your Lighting Selection

Your Priorities

- Student comfort, focus, and productivity
- Staff visibility and teaching effectiveness
- Energy efficiency and long-term maintenance

Your Spaces

- Classrooms, lecture halls, corridors, gymnasiums, parking, campus exterior
- How each space supports learning, movement and activity

The Right Solution for Each

- Application-appropriate lighting approaches
- Proven solutions from trusted manufacturers
- Integration with lighting controls to support efficiency, automation and adaptability

Your Renovation Roadmap

- Standardization across classrooms and facilities
- Planning for maintenance and future upgrades
- Minimizing disruption to students and staff

Lighting Services

Graybar can help simplify your lighting project with design, planning and logistics services tailored to your needs.

Material Kitting & Fixture Carts

- Custom kitting by building, floor, room or electrician
- Complete component kits ready for assembly or installation
- Fixture carts organized by room or floor to improve productivity and reduce waste
- Reduces the need for skilled labor to manage materials on site

Lighting Design & Planning

- Proven fixture and lighting control recommendations
- Training on the latest fixtures, controls and code requirements
- Pre-job planning meetings to identify challenges, material needs and delivery schedules

Staging, Storage & Delivery

- Local warehousing and staged material delivery when and where needed
- Shipment inspection to verify correct, undamaged fixtures before delivery
- Just-in-time delivery to reduce jobsite clutter and improve efficiency

Preassembled Installation Solutions

- Ready-to-hang fixture assemblies
- Pre-wired fixtures and fixture whips to accelerate installation
- Reduced labor requirements and faster project completion

Project Management

- Dedicated project management team to coordinate ordering, tracking and delivery
- Helps keep projects on time and on budget
- Integration with project management software for greater visibility and coordination

Systems Integration

- Integration with procurement, accounting and project management systems
- Electronic purchasing capabilities
- Real-time access to critical project information across the project lifecycle

Let's Talk Through Your Education Spaces

Graybar helps align lighting and controls solutions to how education spaces are used—classrooms, common areas and campus environments—so you get better learning outcomes, improved efficiency and long-term consistency.



Graybar, a Fortune 500 corporation and one of the largest employee-owned companies in North America, is a leader in the distribution of high quality electrical, communications and networking products, and specializes in related supply chain management and logistics services.

Graybar has the power and stability of a big company and the integrity and drive of an employee-owned business. Graybar is certified against the latest ISO 9000 standard. Discover how Graybar can work to your advantage.

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