

# Lighting for Educational Facilities

LIGHTING FOR EDUCATIONAL FACILITIES

H.E. WILLIAMS, INC.







# Made Right Here®

H.E. Williams, Inc. is well into its third generation of family leadership and still manufacturing products at our facility in Carthage, Missouri, where it all began in 1921. Over the years, technology has evolved, but our values have not.

As an independently-owned American manufacturer, we are simply easier to do business with. We personally and quickly respond to you with answers. We build and ship products with your schedule in mind, and our long-standing promise to produce quality fixtures means fewer field service issues. After 100 years, we've found no better way to meet your standards and ours.

At our Midwest headquarters and production facility, every order is handled like it's the only order. From start to finish, Williams light fixtures are made by hardworking men and women. It's their job to see that each product is built right.

A lifelong partnership and products we're proud to put our name on – that's the Made Right Here difference.



A Visible Difference®





4 Lighting for Education



6 Dining & Common Areas



10 Libraries



14 Classrooms

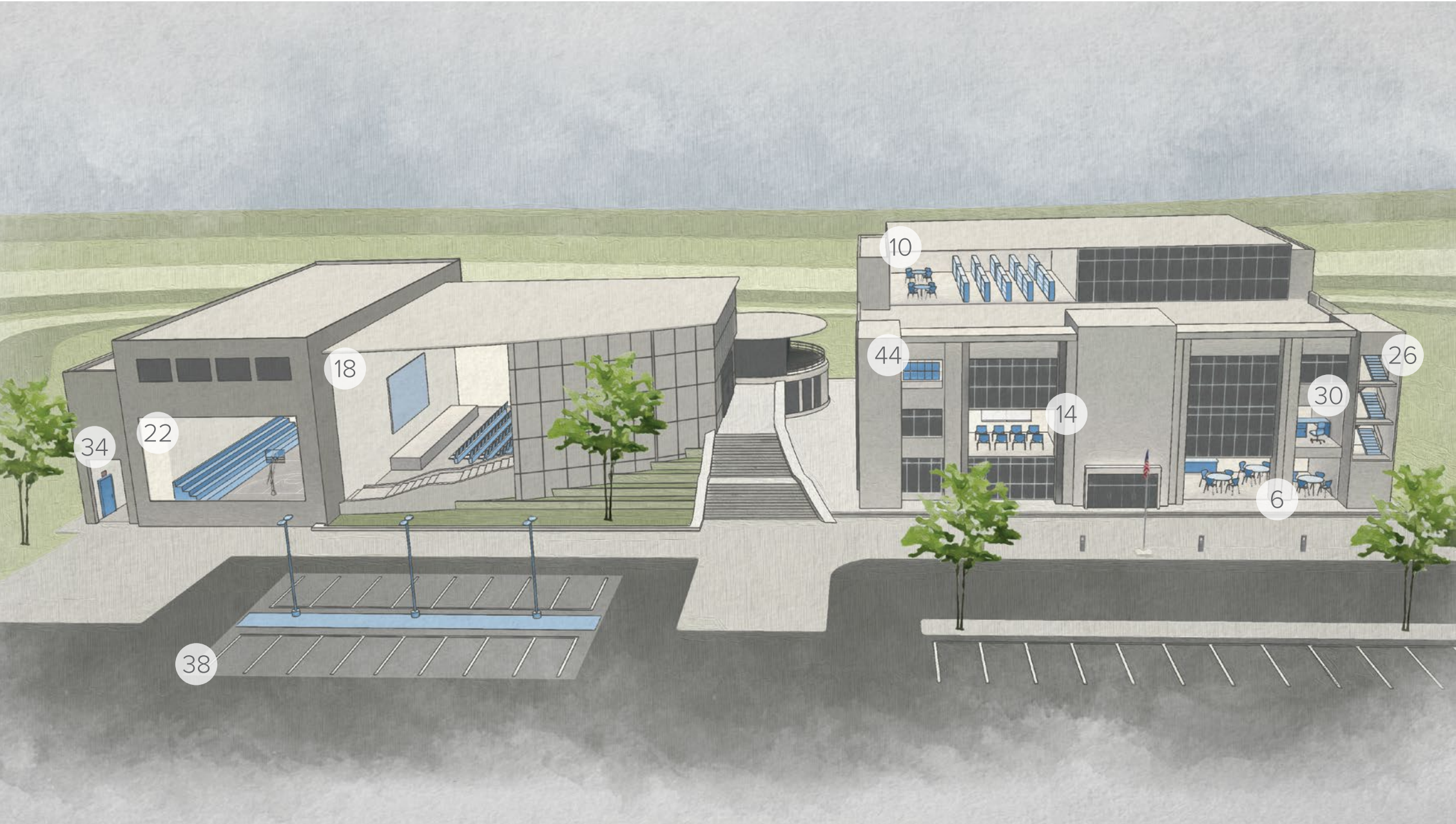


18 Auditorium & Lecture Halls



22 Athletic Centers

# Content



26 Corridors & Stairwells



30 Office & Administrative



34 Egress



38 Site Lighting



42 Human-centric Lighting



44 Lighting Controls







# Lighting for Education

Lighting in today's educational facilities goes beyond the classroom. From lecture halls and corridors to gymnasiums and parking lots, Williams offers the full lighting package.

Proper illumination improves student performance, increases alertness and enhances overall well-being. With a vast product portfolio including human-centric lighting and integrated controls solutions, our luminaires are engineered to meet the most demanding environments and designed to deliver a personalized level of light control.

Lighting can be a significant portion of a school's operating expense. Reduce maintenance costs and maximize energy savings using products with advanced LED technologies from Williams.

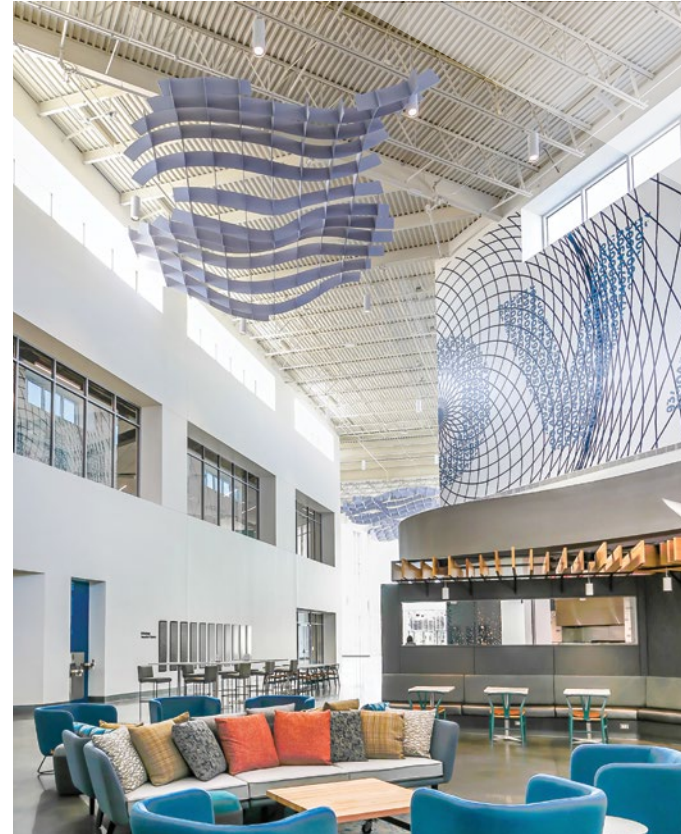
Delivering a better learning experience through lighting



# Dining & Common Areas

Welcome students and visitors by promoting the school brand with tunable lighting while enhancing the architectural details.

For areas such as cafeterias with lofty ceilings, high-performance recessed fixtures deliver ample illumination and are not an obstruction to the space.



Easily control the lighting, gather desired data and minimize energy consumption using Williams Power over Ethernet lighting.

Creating an inviting atmosphere in the heart of the school





#### MX | 2 & 4 Inch Continuous Ambient

- Create elegant spaces with a seamless, continuous row of illumination
- Design spaces quickly with the Linear Product Builder
- Flat, glowing edge, drop and regressed lenses give designers a variety of looks



#### PX | Continuous Perimeter

- Use slot, wash or graze distributions to illuminate room perimeters
- Engineered to accommodate straight runs and corners
- Adjustable extensions ensure a perfect fit for every application



#### LT | Troffer

- High-efficacy fixture delivers up to 140 lm/W
- Easily change the color temperature on-site with FieldSELECT
- Air return option for a cleaner ceiling



#### AX2 | 2 Inch Architectural

- Sleek, slim architectural design provides direct or indirect light
- Slightly wrapped lens creates glowing edge and smooth illumination
- Suspended and wall mount styles add design flexibility and continuity



#### 2A, 4AR & 6AR | Adjustable Downlights

- Adjustable aim with 0° - 45° tilt and 360° rotation
- Beam angles ranging from 15° narrow to 55° wide for tailored performance
- Etched degree markers and directional indicator make it simple to fine-tune the illumination angle



#### RND | Round Architectural

- Supplies soft, uniform ambient illumination
- Combine multiple mounting types to create a unique and modern space
- Available in diameters up to 4'



# Libraries

While still centered around reading and learning, modern school libraries also serve as creative spaces, computer labs and club meeting rooms.

Suspended luminaires from Williams adequately and uniformly illuminate bookshelves from top to bottom while making an architectural statement.



Recessed fixtures are a more traditional option to provide comfortable, glare-free lighting in study areas.

For quiet reading spaces, choose from a broad selection of 2, 4, 6, and 8 inch downlights with dim-to-warm technology to create a calm, relaxing ambience.

Enriching student learning experiences





- MX | 2 & 4 Inch Continuous Ambient**
- Create elegant spaces with a seamless, continuous row of illumination
  - Versatile with recessed, surface, suspended and in-wall mounting
  - Flat, glowing edge, drop and regressed lenses give designers a variety of looks



- CX | Continuous Cove**
- Provides soft, uniform lensed illumination for contractor and extruded coves
  - Field-adjustable to the inch ensures a perfect fit
  - Design spaces quickly with the Linear Product Builder



- AT | Architectural Troffer**
- Backlit curved lens provides uniform illumination for visual comfort
  - Three unique styles create a highly-aesthetic presence
  - Recessed or surface mount



- 4C, 6C, 8C | 4, 6, & 8 Inch Cylinder**
- Comprehensive list of mounting options – pendant, cable, power cord, wall and ceiling
  - Superior optical control with beams as narrow as 8° and field changeable optics as wide as 70°



- 2D, 4D & 6D | 2, 4 & 6 Inch Downlight**
- Innovative TrimLock® reflector retention system ensures trim remains flush with ceiling plane
  - Contemporary design provides glare-free illumination for a soft ceiling appearance
  - Slim 5" depth for minimal plenum space applications



- RND | Round Architectural**
- Supplies soft, uniform ambient illumination
  - Combine multiple mounting types to create a unique and modern space
  - Available in diameters up to 4'



# Classrooms

Quality LED illumination improves academic performance, enhances student comfort and reduces eye fatigue by eliminating flicker, glare and fixture noise, while appropriate color temperatures can affect mood and focus.



Tailor the learning environment to the needs of the class and boost student engagement by selecting tunable white products connected via PoE.

Tunable white and PoE are available in nearly all recessed, suspended, surface and downlight product lines from Williams.

Encouraging improved student performance





#### LT I Troffer

- High-efficacy fixture delivers up to 140 lm/W
- Tunable white available
- Easily change the color temperature on-site with FieldSELECT



#### AP I Edge-lit Arched Panel

- Gently curved aperture provides soft, even illumination
- Slim 3-3/4" depth for shallow plenum applications
- Seamless design prevents light leak



#### BP I Backlit Flat Panel

- Switchable CCT and lumen outputs with FieldSELECT
- Recessed, skylight and surface mount options
- Integral emergency battery



#### SDI5 I Suspended Direct/Indirect

- Timeless, low-profile design provides direct and indirect illumination
- Tunable white available to enhance student performance
- Stand-alone & continuous row mounting



#### AXA I Contoured Louver

- Contoured housing, end caps and louver provide an attractive source of direct lighting.
- Design elements on side panels add interest while producing subtle uplight.
- Tunable white available



#### LLM I Architectural Slimline Suspended

- Tunable white available to enhance student performance
- Slim, low-profile design
- Design flexibility with round or square profiles



# Auditorium & Lecture Halls

Auditoriums have unique performance lighting and schedule control requirements. High-output downlighting with dimming features works well for general illumination. PoE connectivity is a smart way to fully automate the lighting.



Adequate illumination is critical in large spaces with high ceilings such as lecture halls. Bring style and function to these key areas by using continuous linear product to create a contemporary look or choose designer cylinders for an industrial flair.

Presenting the audience with a welcoming atmosphere





#### 8DR | 8 Inch Downlight

- High-output illumination for tall ceiling applications
- Beam angles ranging from 35° narrow to 65° wide for tailored performance
- Open reflector with 9 finishes to complement any interior style



#### 2D, 4D & 6D | 2, 4 & 6 Inch Downlight

- Beam angles ranging from 8° spot to 65° wide for tailored performance
- Die cast trim includes flush, regressed or wall wash lens
- Energy Star Certified



#### RND | Round Architectural

- Supplies soft, uniform ambient illumination
- Combine multiple mounting types to create a unique and modern space
- Available in diameters up to 4'



#### MX | 2 & 4 Inch Continuous Ambient

- Create elegant spaces with a seamless, continuous row of illumination
- Versatile with recessed, surface, suspended and in-wall mounting
- Flat, glowing edge, drop and regressed lenses give designers a variety of looks



#### AT | Architectural Troffer

- Backlit curved lens provides uniform illumination for visual comfort
- Three unique styles create a highly-aesthetic presence
- Tunable color available



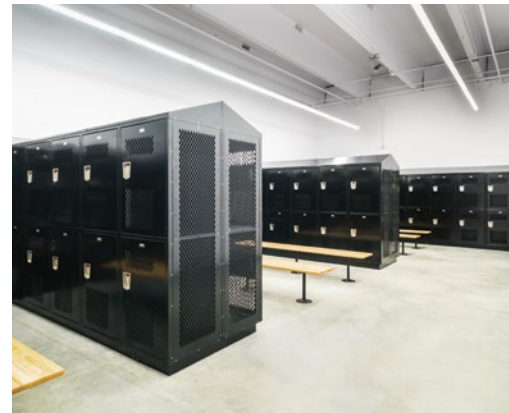
#### CX | Continuous Cove

- Provides soft, uniform lensed illumination for contractor and extruded coves
- Field-adjustable to the inch ensures a perfect fit
- Tunable color available



# Athletic Centers

Enhance and set the tone for entryways and concessions with architectural suspended and recessed solutions from Williams. Use dynamic lighting to easily transition from a high-energy atmosphere like a sporting event to a prestigious environment such as a graduation.



Rugged, shatter-resistant, high-output LED high bays from Williams withstand the rough and tumble nature of athletic events, while uplighting, dimming protocols and connectivity solutions provide a softer ambiance to set the scene for ceremonies and social gatherings.

Meeting the demanding requirements of multipurpose environments





- GS I Slim High Bay**
- Ultra-low 2-9/16" fixture depth and lightweight design
  - Up to 55°C ambient rating
  - High performance up to 155 lm/W
  - In-fixture control options



- GH I Compact Modular High Bay**
- Scalable footprint and variable lumen outputs
  - Variety of mounting options for surface and suspended applications
  - Optimized for single person installation



- GL I Low Profile Industrial**
- Shallow fixture depth of less than 4"
  - Narrow distribution and uplight options provide precise illumination
  - Quick-wire access plate for easy installation



- AVX I Architectural Vandal Wrap**
- Designed for surface, wall, pendant, or corners
  - IK10 rated with heavy-duty housing, die-cast end caps, and impact-resistant polycarbonate lens
  - ADA compliant in wall mount applications



- 75R, 75S I Narrow Strip**
- Diffuse acrylic lens in round or square styles enhances uniformity and minimizes glare
  - Variety of surface and suspended mounting accessories
  - Small profile for coves or confined spaces

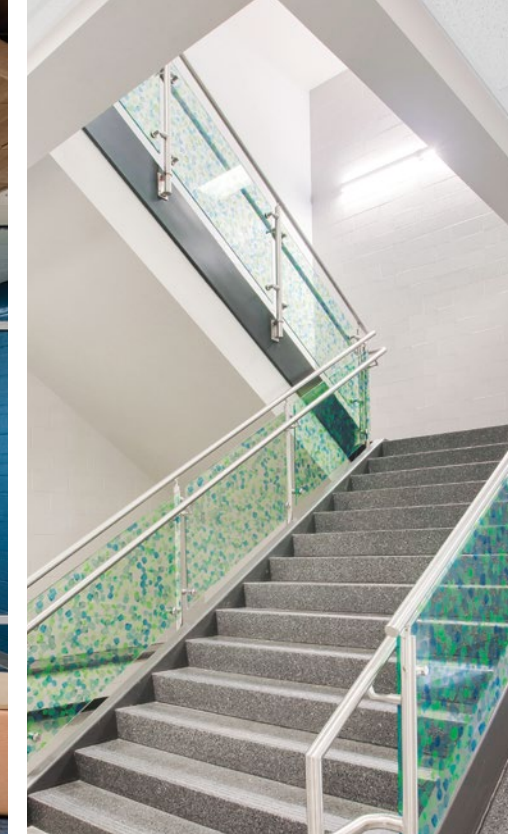


- 2D, 4D & 6D I 2, 4 & 6 Inch Downlight**
- Optional non-conductive lens for shower applications
  - Beam angles ranging from 8° spot to 65° wide for tailored performance
  - Optional anti-ligature, tamper-resistant design for vandal prone areas



# Corridors & Stairwells

Faculty and students feel safer in well-lit areas. Continuous LED lighting products in ambient, perimeter and cove configurations from Williams provide seamless illumination along the entire corridor, eliminating dark spots and shadows.



Dimming protocols, coupled with occupancy and daylight sensors, save energy and deliver optimum light levels. As corridors and stairwells are frequented less, lights automatically dim, then transition seamlessly to higher lumens as one enters the space. Energy savings are realized without compromising safety and security.

Promoting feelings of safety and security





#### LT | Troffer

- High-efficacy fixture delivers up to 140 lm/W
- Low-profile depth for shallow plenum
- Air return option for a cleaner ceiling



#### CX | Continuous Cove

- Provides soft, uniform, illumination for contractor and extruded coves
- Field-adjustable to the inch ensures a perfect fit
- Design spaces quickly with the Linear Product Builder



#### PX | Continuous Perimeter

- Use slot, wash or graze distributions to illuminate room perimeters
- Engineered to accommodate straight runs and corners
- Adjustable extensions ensure a perfect fit for every application



#### AX2 | 2 Inch Architectural

- Sleek, slim architectural design provides direct or indirect light
- Slightly wrapped lens creates glowing edge and smooth illumination
- ADA compliant in wall mount applications



#### 4C, 6C, 8C | 4, 6, & 8 Inch Cylinder

- Innovative TrimLock® reflector retention system ensures trim remains flush with cylinder face
- Unique TwistLock™ surface mount technology ensures a simple and secure installation



#### RND | Round Architectural

- Supplies soft, uniform ambient illumination
- Combine multiple mounting types to create a unique and modern space
- Available in diameters up to 4'



# Office & Administrative

Preparing academic curriculum for students requires concentration and focus. Service school faculty by using fixtures that deliver uniform, glare-free illumination such as recessed luminaires from Williams.



Personalize the lighting in office spaces with FieldSELECT™. An innovative solution from Williams, FieldSELECT allows the end-user to choose a desired color temperature with its built-in fixture switch.

Stimulating thought and promoting clear decision making





- AT | Architectural Troffer**
- Backlit curved lens provides uniform illumination for visual comfort
  - Three unique styles create a highly-aesthetic presence
  - Hinged door frame swings down for easy room-side access



- PT | Shallow Plenum Troffer**
- Recessed, surface and retrofit kit preserve continuity
  - Slim 2-3/8" for minimal plenum space and low-profile surface mount
  - Easily change the color temperature on-site with FieldSELECT



- BP | Backlit Flat Panel**
- Switchable CCT and lumen outputs with FieldSELECT™
  - Recessed, skylight and surface mount options
  - Integral emergency battery



- CX | Continuous Cove**
- Provides soft, uniform lensed illumination for contractor and extruded coves
  - Field-adjustable to the inch ensures a perfect fit
  - Design spaces quickly with the Linear Product Builder



- 1SF | Under Cabinet**
- Delivers uniform, glare-free task lighting for work areas
  - Small profile installs inconspicuously in confined spaces
  - Available with attractive rocker switch for easy on/off



- 2D, 4D & 6D | 2, 4 & 6 Inch Downlight**
- Choose from round and square styles in trim or trimless
  - Innovative TrimLock® reflector retention system ensures trim remains flush with ceiling plane
  - Die cast trim includes flush, regressed or wall wash lens



# Egress

Well-marked exits and emergency backup lighting is necessary to maintain the safety of students, visitors and faculty.

Williams emergency and exit signs meet UL 924, NFPA Life Safety Code, NEC, OSHA, and local and state codes. Bright and evenly-illuminated signs provide excellent visibility from multiple locations within an area. Create custom messaging for precise wayfinding or important messages throughout the facility.



Nearly all Williams fixtures are designed with an emergency battery backup option to keep necessary lights on when the power goes out. Obtain peace of mind with battery backup providing 90 minutes of emergency operation and a rechargeable fully automatic solid-state system.

Ensuring safety for students, faculty and visitors





- EMER/LED | Emergency LED
- High-performance, adjustable lamp heads
  - Wet location available
  - Optional high lumen heads



- EXIT | Exit Sign
- Compact, low-profile design
  - Universal single/double face
  - Wet location available



- EXIT/CA | Cast Aluminum Exit
- Three faceplate finishes
  - Compact, low-profile design
  - Unique design allows double face conversion in the field



- EXIT/EL | Edge-lit Exit
- UV-stabilized edgelit panel provides consistent, uniform illumination
  - Compact, low profile design
  - Ceiling, side, wall mount or recessed



- EXIT/EM/LP | Lightpipe Exit & Emergency
- Ultra-bright, long-lasting LEDs
  - Lightpipe emergency light
  - Custom messages available
  - 90 minutes of emergency operation



- EMER/DECO | Decorative LED
- Decorative, low-profile, architectural design
  - Factory-installed photocell
  - Standard operating temperature of 32°F to 122°F



# Site Lighting

A school's exterior lighting serves as a beacon – welcoming visitors, providing safe passage to and from parking lots and highlighting architectural details.

Williams exterior LED lighting solutions are elegantly designed to accent buildings and blend seamlessly with the surrounding environment.



Our high-performance, energy-efficient luminaires are built for durability and ease of installation.

Illuminate pathways with step lighting and bollards to promote wayfinding. Use flood lights to highlight signage and area lights to provide ample illumination along driveways and parking areas.

Creating welcoming first impressions





VA | Voltaire Area Light

- Complement architecture with low-profile, contoured design
- Illuminate pedestrian walkways and parking lots using two functional sizes
- Shorten installation time with hinged two-piece enclosure



VG | Voltaire Garage Light

- Rugged and durable housing with IP66 rating
- Provides security light levels with reduced glare
- Quick and easy installation with hinged two-piece enclosure



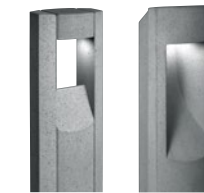
VF | Voltaire Flood Light

- Precise light control with six standard NEMA distributions
- Full suite of architectural mounting arms
- Rugged and durable sealed die-cast housing



VW | Voltaire Wall Pack

- Choose from two distinct styles in mini and standard sizes
- Designed to illuminate sidewalks, entryways, perimeters or facades
- Uplight and downlight applications



VCB | Voltaire Concrete Bollard

- Two architectural styles for symmetric or asymmetric distribution
- Four concrete colors with flint sandblast or glazed protective finish
- Provides security and accent lighting for walkways, courtyards and entrances



OS | Concrete & Aluminum Bollards

- Square and round styles available in 6 inch to 12 inch sizes
- Easy access to internal components
- Shielding options tailor distribution styles





# Human-centric Lighting

**Tunable Color**  
Create rich, vibrant designs with lasting visual impact using the full visible light spectrum.

**Tunable White**  
Support human-centric design through adaptive, individualized lighting using tunable white light.

**Dim to Warm**  
Mimic the comfortable, welcoming glow of incandescents with warm-dimming technology

**FieldSELECT™**  
Easily change the color temperature and lumen output on-site with built in switches, providing ultimate flexibility.

Visit [hew.com/human-centric](http://hew.com/human-centric) to learn more.



Elevate your space and improve sleep quality, alertness and decrease social jet lag with BIOS SkyBlue® technology in our high-performance luminaires.

As the industry-leading circadian LED solution, BIOS SkyBlue contributes toward satisfying Circadian Lighting Design Feature 54 under the WELL Building Standard™ v1 and Feature L03 under the WELL Building Standard v2.

[hew.com/bios](http://hew.com/bios)





# Lighting Controls

## Bluetooth® Lighting Controls

Gateway-free technology from Avi-on plus integrated fixture controls from Williams combine to deliver a turnkey solution that makes commissioning and setup a breeze.



## Data-Driven Systems

With over 80 PoE-enabled luminaires, environmental sensors, and software packages, Platformatics provides an IoT lighting backbone for healthy, smart buildings.



## In-Fixture Solutions

Through our partnerships with industry leaders, we bring sophisticated lighting controls and specification-grade LED luminaires together to enhance user experiences in the built environment.







**H.E. WILLIAMS, INC.**

831 West Fairview Ave | Carthage, MO 64836

417-358-4065

[hew.com](http://hew.com)