



Manufacturing Illuminated
LIGHTING SOLUTIONS TO ENHANCE MANUFACTURING OPERATIONS

Providing The Lowest Total Cost of Ownership

Industrial energy use is responsible for almost 30 percent of all U.S. greenhouse gas emissions, which contribute to global climate change.

Every task demands lighting and controls solutions that account for worker activities, ceiling height variations, temperature ranges and operating conditions. Our mission is to provide the right amount of light at the right times for the least amount of energy – no matter the space. Inside and outside.

Reduce energy consumption while achieving proper light levels through LED lighting, controls and daylighting. Reduce labor in maintaining older lighting systems. And, reduce spend on maintenance material replacement and disposal costs.



Lighting Solutions at the Right Costs **for All** **Your Working Spaces**

➤ The broadest set of solutions

Acuity Brands® has the broadest portfolio of indoor and outdoor lighting solutions for the warehousing campus. We cover the entire property, from the front road to the back fence.

➤ The right solutions for each individual space

Quality of lighting is about optimizing technology to create the best possible lighting scenario for people within any given space, encouraging safety, security, comfort and productivity.

➤ Solutions that deliver bottom-line cost savings

Electric lighting, wiring, daylighting, lighting controls, software and services work together to deliver the most appropriate light for the task at hand at the lowest total cost of ownership for both indoor and outdoor applications.



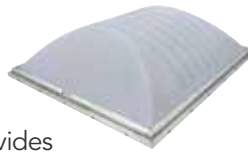
Manufacturing

Electric Lighting

Manufacturing environments require a balanced combination of vertical and horizontal lighting to enhance workers' ability to perform detailed tasks and provide optimum safety. Each task demands specific lighting and controls solutions that are affected by mounting height, temperature and operating conditions.

Daylighting

By utilizing photocontrols, Sunoptics® prismatic skylights can replace electric lighting up to 80% of daylight hours. Industry-leading construction and installation design eliminates leaking and provides years of maintenance-free performance.



Sunoptics prismatic skylights offer:

- The highest visible transmission
- 100% diffusion
- Increased light levels
- Protection against glaring hotspots
- Significantly less heat than electric lighting

Automatic Controls

Acuity Brands offers multi-layered, integrated lighting control solutions that allow for the lowest installed cost, using fixture-mounted occupancy and photo-sensors. Simply provide power, and the on-board controls provide dimming and on/off control to effectively manage energy consumption.

For the lowest total cost of ownership, our intelligent lighting solutions optimize the lighting system through advanced control strategies such as demand reduction, adaptation to future space utilization and information delivery services for preventative maintenance.



Wiring Solutions

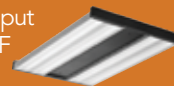
While traditional hardwiring requires three or more passes to install conduit, pull wire and hang fixtures, our OnePass® open-ceiling wiring system ensures only three basic components and one pass are needed. The OnePass system simplifies the installation of high bay fixtures in open ceilings – reducing labor costs and, in turn, the total job cost.





General Environments Manufacturing, Warehousing and Storage

I-BEAM® LED High Lumen High Bay – Light industrial configuration that replaces up to 1000W HID and provides up to 48,000 lumens, reduces input watts by 60%. Lens option available. 131°F (55°C) rated. 40-60 feet mounting height.



I-BEAM® LED High Bay – Light industrial configuration that replaces 400W HID and provides up to 24,000 lumens, reduces input watts by 60%. Lens option available. 131°F (55°C) rated. 15-40 feet mounting height.



Proteon™ LED High Bay– Lensed heavy-duty high bay offers from 6,000 lumens up to 18,000 lumens and replaces 400W HID, 6-lamp T5 and 8-lamp T8 fluorescent sources. 122°F (50°C) rated. Suitable for mounting heights from 15-40 feet.



IBH LED Low Bay – Lensed light industrial configuration ideal for lower mounting heights. Replaces 250W HID, 3-lamp T5 and 4-lamp T8 sources. Offers up to 11,200 lumens. 104°F (40°C) rated. Suitable for mounting heights from 10-20 feet.



Z Series LED Strip – Lensed, strip light offering up to 4,600 lumens replacing 2-lamp T8 and T5 sources ideal for task and inspection lighting, low mounting heights in storage and aisle areas. 86°F (30°C) rated. 10-20 feet mounting height.



RELOC OnePass® Flexible Wiring System – Labor savings of up to 75% compared with traditional hardwiring. Lowest total job cost vs. traditional hardwiring.



Heavy Environments Manufacturing, Processing and Storage

FHE LED Low Bay – Suitable in food processing, hose-down and ingress protected areas offering up to 15,000 lumens. NEMA 4X rated. 1500 PSI hose-down. 104°F (40°C) rated. IP65, IP66 and IP67 rated. NSF Splash Zone 2. NEMA 4X. 1500 PSI hose-down.



FEM LED Low Bay – Suitable in food processing, hose-down and ingress protected areas offering up to 9,000 lumens. 1500 PSI hose-down and 104°F (40°C) rated. IP66 and IP67 rated. IP65 rated on 2' model only. NSF splash-zone certified meets FDA/USDA guidelines.



Indura® NEMA 4X Emergency Unit – Provides a minimum of 90 minutes of illumination for the rated wattage upon loss of AC power. Unique design for heavy and demanding industrial applications such as manufacturing plants, refineries, food-processing facilities and other applications subject to hose-down or industrial conditions. Superior-performance lamp heads are ideally suited for higher mounting heights. Perfect for pole and column mounting.



Please reference the
Illuminating Engineering Society – The Lighting Handbook Tenth Edition,
Reference and Application for suggested lighting and controls guidelines.

Office & Administration

Lighting renovations in common areas can maximize total energy savings, while minimizing required fixture maintenance. Areas of focus include entryways, lobbies, cafeteria and offices.

Controls Strategies

Relighting your common areas can reduce power consumption by 40% or more, and open up the potential to reduce energy through the automatic controls now required for code compliance. A strategy of occupancy sensing, combined with manual override and time-based scheduling profiles can reduce energy by an additional 30% to 50%. Our data loggers will uncover these available savings and allow you to make fact-based ROI decisions.

Outdoor

Parking lots and parking structures utilizing traditional lamp sources are prime candidates for lighting upgrades. The fixtures in these environments are subject to long burn hours, consume significantly more energy and experience much shorter service lives than LED luminaires. Upgrades to LED lighting reduce energy use by 50%, extend life span by 400% and enable advanced capabilities to further improve operational and efficiency positions.

Controls Strategies

While dusk-to-dawn operation was once the standard for outdoor lighting control, opportunities are now readily available for greater efficiency while retaining lighting system effectiveness.

Integral part-night operation to reduce lighting power levels can be coupled with exterior motion sensing. This strategy can deliver an additional 50% energy savings and accelerate the payback potential of our long-life LED fixtures – all without the addition of any underground wiring.

In addition, wireless control and monitoring can be used to alert for any potential system failures, log motion sensor operation and provide schedules that adapt outdoor lighting levels based on planned activities.



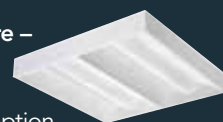


Office/Administration Areas



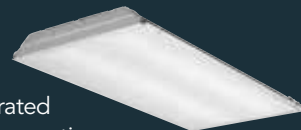
RT Series LED Volumetric Luminaire –

Volumetric LED luminaires provide architectural styling and integrated control with minimal energy consumption.



GT Series LED Luminaire –

Ideal for general areas such as offices, corridors and other common areas, providing integrated control with minimal energy consumption.



RV Series LED Retrofit – Low-glare, uniform light distribution makes these an ideal choice for common areas.



Sensor Switch – Wide

variety of occupancy sensors for greater coverage; reduce energy consumption during the day with daylighting sensors.



Outdoor

D-Series Area – Outstanding

photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. Sensor options available.



CSX LED Area – The high-output

area luminaire is designed to deliver maximum lumens in surface lot applications. Highly efficient and long-lasting, it is ideal for streets, walkways, parking lots, and surrounding areas.



D-Series Floodlighting – A variety of precise

optical distributions deliver enhanced uniformity, provide greater energy savings and allow for a one-for-one replacement of traditional floodlights.



OLW Wall Pack – This versatile wall pack

integrates long-life LED technology in an affordable, energy-saving security lighting solution. Bright, uniform distribution is ideal for spaces requiring added safety and security.



ROAM – This streetlight monitoring system allows for individual fixture and group control, continuous dimming and automated scheduling – perfect for outdoor parking areas.



XPoint Wireless – Wireless mesh system features current monitoring and lamp outage reporting with embedded controllers.



Manufacturing Illuminated

At Acuity Brands, we're maximizing the potential of technology to create the best quality of lighting for every environment.

With our industry-leading portfolio and proven expertise in indoor and outdoor luminaires, controls, components, LED lighting technology and daylighting, we deliver the broadest portfolio of integrated, intelligent solutions.

Call your Acuity Brands representative today to discuss intelligent industrial lighting solutions.

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11/13 Form No. IND003.23