Food Processing

Industrial Lighting & Controls Solutions

Your work environment is demanding.
Our lighting solutions can handle it.

In food and beverage processing, you need assurance, not uncertainty.

High-pressure wash-downs. Corrosive cleaning solutions. Steam. Grease and oil. Freezing temperatures.

Your lighting system must endure tough conditions in a number of severe environments, from splash zones to loading docks, yet consistently contribute to a clean, safe and visually effective workplace.

Even more, it must do all this without straining your budget for electricity and maintenance, or causing a plant shutdown.

Holophane® understands the exceptionally demanding requirements for lighting food-processing operations. Our extensive selection of innovative, durable lighting and control technologies for the food-processing industry, plus exceptionally responsive services, support a safe and sanitary lighted environment. Backed by the Acuity Brands® reputation for comprehensive solutions, we also help you meet regulations tied to environmental and illumination concerns, with features that typically exceed standards.

It's how Holophane has become a long-time leader in our industry — and yours.

Energy savings: an extra advantage

Holophane lighting solutions enhance functions specific to food and beverage processing, with every operational detail addressed. They also happen to save tremendous amounts of energy.

Proper lighting = managed costs, managed risks.

Lighting solutions must multi-task to meet your plant's needs.

- Reduce contamination risks with easy-to-clean lighting fixtures that *also* reduce your maintenance costs and downtime through long-life light sources.

- Keep current with the latest in lighting forms that minimize breakage *and* meet the latest government regulations regarding food quality, safety and defense.

- Provide employees with lighting that enhances visibility *and* protects them from shadows or blinding glare that can increase your plant's liabilities.

Our solutions are masters at multi-tasking.

Holophane is your true lighting solutions partner, with a dedicated, factory-direct sales team that can work directly with you to optimize your lighting solution. We deliver energy-efficient, easy-upkeep lighting solutions engineered to excel, from the optics to the mechanics.

Our luminaires are designed for superior horizontal- and vertical-surface illumination required for safe equipment use and accurate data readings. Our most-rugged fixtures, for indoors or out, employ the highest-quality materials — including the legendary Holophane prismatic optics — to ensure a long, easy-to-maintain life in the toughest of environments.

A Lighting Reminder

- On average, LED lighting technology alone can save you 60% in energy costs over traditional lighting technology

- Lighting can be energy efficient while also contributing to cleaner, safer and more efficient production in your plant

- On multiple fronts, outdated lighting simply can't compete with today's smart lighting and controls for special applications

Expect your lighting to do more for your bottom line.

Benefits of an Optimized Food-Processing Plant

S — **Savings**
Realized through reduced energy use, labor and maintenance.

OE — **Operational Efficiency**
Achieved through increased productivity, improved safety and reallocated resources.

VC — **Visual Comfort**
Supports reduced worker fatigue and higher, more consistent production.

F — **Flexibility**
Components provide control over your lighting environment with tools that evolve as your operation does.

Lighting solutions can be optimized with efficient lighting that pays for itself in a short time and, will continue working hard for decades. Optimization starts with advanced LED luminaires that save energy and significantly minimize maintenance. The more you invest, the more benefits you realize for reducing your total cost of operations.

With our lighting and controls solutions, you can customize a system for your specific application and maximize your returns.

In the renovation example below, we replace pulse-start metal halide luminaires in a typical food-processing application (bottom of chart) with Holophane® Vantage® LED — and then build up to an optimized solution.

Renovation Examples – 250 Luminaires – 10 year Lifecycle

| System	Average Yearly Operating Cost*		Investment Drivers*		Benefits
OPTIMIZED Replace with: LED High Bay Luminaire with Wireless Controls & Occupancy and Photocell Sensor	$18,829	$93,053	2.2 Yearly Payback	45% IRR	S OE VC F
Replace with: LED High Bay Luminaire with Occupancy Sensor	$32,713	$79,169	2.4 Yearly Payback	41% IRR	S OE VC
Replace with: LED High Bay Luminaire Only	$43,501	$68,381	2.5 Yearly Payback	38% IRR	S VC
Existing Lighting: 400W Pulse Start Metal Halide High Bay Luminaire	$111,882 (energy & maintenance)				

■ Operating Cost   ■ Savings

*Figures are based on conversion from existing 458W pulse start metal halide luminaires to new 188W Vantage LED high bay luminaires. Savings and returns estimates assume $0.10/kWh utility rate, 8,760 yearly operating hours, projected typical control system performance, and typical HID lamp/ballast replacement and labor costs. Actual savings, payback period, and IRR may differ as a result of product cost, end-user environment, and application.

Solutions to Optimize your Food-Processing facility

LEADER IN LIGHTING SOLUTIONS

HOLOPHANE®

Lighting that saves you money – LED Luminaires for Food-Processing

S **VC**
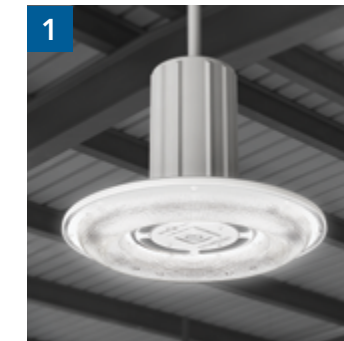
Holophane® Vantage (VL) LED luminaires save up to 60% in energy costs over traditional light sources while minimizing maintenance and production downtime.

- IP66 rated and NSF splash zone listed, the sloped shape with corrosion-resistant finish repel water (up to 1500 psi) and provide nowhere for food, dirt or debris to hide

- Multiple lumen packages available for one-for-one replacement of up to 400W HID or 6-lamp T5HO fluorescent

Lighting when you need it – Responsive Occupancy Sensor

S **OE**

Acuity Controls SBGR extended-range 360° sensors are gasketed for wet-location use.

- Electronics coated for corrosion resistance; operates at temperatures as low as -40°F (-40°C)

- Digital Passive Infrared (PIR) technology tuned for walking-size motion while preventing false tripping from the environment

Lighting that changes with you – Flexible Network Controls

S **OE** **F**

XPoint™ Wireless and SensorView from Acuity Controls mean superior lighting management through wired/wireless network communication between fixtures, sensors, and control stations.

- Digital system lets you configure individual fixtures or entire zones as you boost savings, increase luminaire life, and comply with local codes

- SensorView software optimizes system via task-tuning, configuring, rezoning, program scheduling and more, all through one interface or app

A+ Certified solutions from Acuity Brands help you quickly and confidently select and implement lighting systems, for indoor or outdoor applications, that are both compatible and consistent. See back cover for more information.

S Savings **OE** Operational Efficiency **VC** Visual Comfort **F** Flexibility

www.holophane.com/industrial-food | 5

Complete your food-processing solution with outdoor lighting.

Your employee parking. Truck yards. Loading docks and the building's perimeter. Maximize lighting quality and support safety and security for all of these spaces while minimizing your total cost of lighting ownership with our advanced outdoor lighting and controls technology.

Area Lighting

Holophane® Mongoose® LED roadway and area luminaires are the ultimate in application flexibility and low operational costs.

- Features multiple lighting distributions and mounting options, plus fixture-tilt capabilities to 45°
- Replaces 150-1000W HIID

Floodlighting

Holophane® Predator® LED floodlight luminaires provide optimized thermal management for maximum performance, long life, and reliability.

- Segmented internal reflector design provides superior field-to-beam ratios, uniformity, and spacing
- Two models replace 100W-400W or 400W-1000W HID

Wall-Mounted Lighting

Holophane® Wallpack® LED W4GLED with a prismatic glass lens gives you excellent lighting control and uniformity while minimizing light trespass and glare.

- Provides energy savings of up to 77% over comparable metal halide luminaires
- Replaces 175-400W metal halide

Acuity Brands solutions for every area, every need.

High Bay Lighting

We have additional choices for high bay applications including processing and non-processing areas.

- Holophane® EMW LED luminaires are built to withstand the rigors of food processing and demanding environments while providing quality lighting options and accurate color rendering (up to 90 CRI).
- The Phuzion™ PHZ LED high bay luminaire combines the latest in LED technology with the dynamics of Holophane prismatic acrylic optics for exceptional light output and long life in non-processing areas of your facility.

Low Bay Lighting

In addition to the high bay lighting, we have low bay solutions for processing and non-processing areas.

- Holophane® EVT4 LED luminaires operate in ambient temperatures ranging from -20°F to 104°F; NSF certified and IP65 rated for wet locations.
- Holophane® EMS LED wet-location fixture is ideal in challenging situations, inside or out, where needs for relatively low fixture mounting heights and wide fixture spacings are common.

Take your operation to the next level with Acuity Controls XPoint™ Wireless.

You're looking for an edge. You want greater levels of operational functionality and flexibility. You want to achieve greater savings. Consider investing in your operation by choosing the incredibly simple and adaptable XPoint Wireless lighting control system.
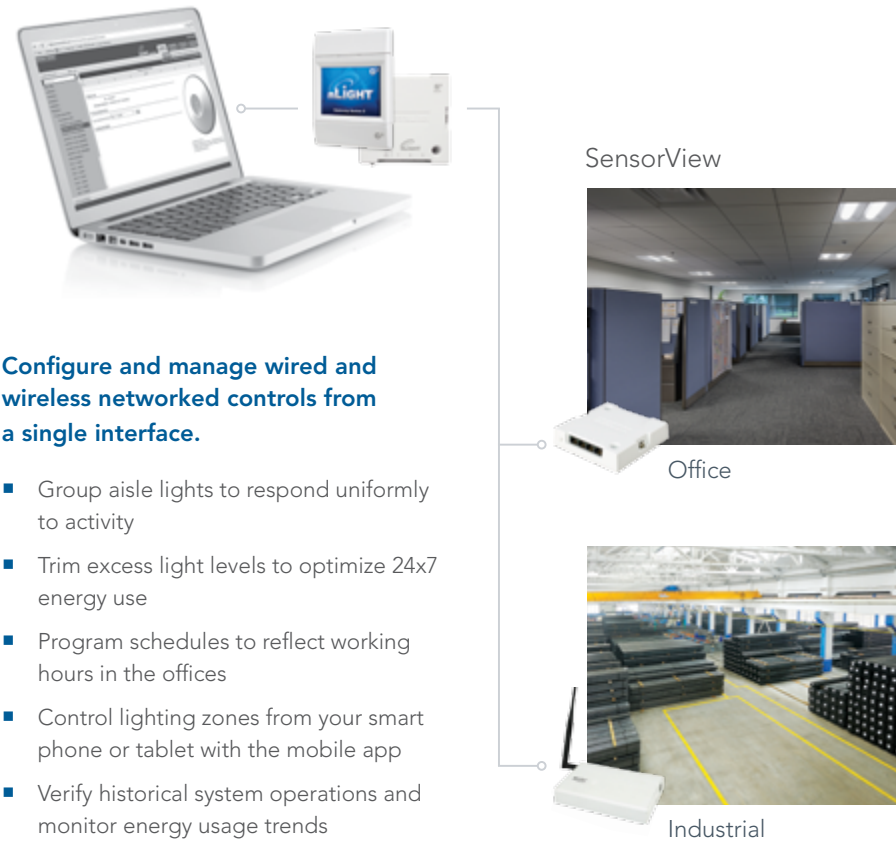
Configure and manage wired and wireless networked controls from a single interface.

- Group aisle lights to respond uniformly to activity
- Trim excess light levels to optimize 24x7 energy use
- Program schedules to reflect working hours in the offices
- Control lighting zones from your smart phone or tablet with the mobile app
- Verify historical system operations and monitor energy usage trends

SensorView

Office

Industrial

XPoint Wireless and SensorView software give you the tools needed to optimize your business and maximize your energy savings:

- **Ultimate flexibility:** Experience the freedom to rezone or move fixtures as your operation evolves — manage your lighting at any level, from the entire site, to specific zones or single fixtures.

- **Reliability = peace of mind:** XPoint Wireless is based on a proven wireless mesh network that has no single point of failure.

- **Stress-free code compliance:** Regulations change rapidly. Receive and manage demand response signals — or implement peak shaving strategies – to drive more savings. XPoint Wireless enables greater levels of multi-level dimming and daylight harvesting.

Set the stage for increased energy savings, flexibility and life safety.

Extreme-Condition Lighting

Rated for hazardous and wet-location environments, Holophane® Petrolux® LED low bay luminaires deliver superior lighting distribution to minimize the number of luminaires needed in spaces where dust, dirt and moisture are a concern.

Task Lighting

Holophane® HZL Series LED striplights provide superior performance and longer life than fluorescent striplights; no lamp outages mean uniform light and reduced maintenance costs.

Life Safety

The Holophane® DeSoto NEMA 4X emergency LED fixture provides protection in environments where moisture, dirt or dust would limit the life of ordinary emergency lighting.

Complete your experience with additional Holophane and Acuity Brands services and tools.

A+ Certification for Compatible and Consistent Performance

A+ Certified solutions from Acuity Brands help you quickly and confidently select and implement lighting systems that are both capable and compatible. For lighting professionals, it means ease, freedom and confidence that all parts of a certified lighting system will operate together.

Acuity Brands Services

Acuity Brands offers customer financing and rebate services, so customers can experience the energy and expanded capabilities of LED lighting and remain cash-flow positive in year one. Contact services@acuitybrands.com for more information and a custom financing program for your next renovation project.
www.acuitybrands.com/solutions/services

Visit Holophane.com/Industrial-Food

AcuityControls

AEL American Electric Lighting

HOLOPHANE LEADER IN LIGHTING SOLUTIONS

eldoLED

RELOC WIRING SOLUTIONS

SUNOPTICS

AcuityBrands
Expanding the boundaries of lighting™