Holophane has a rich history and tradition of providing unparalleled lighting systems for public lighting applications. While one of the key characteristics of Holophane luminaires has been our glass reflector/refractor - every luminaire we offer is also made for longevity and performance.

Working to attain the lighting objectives associated with the vast array of available outdoor applications, Holophane has developed luminaires with high performance optics that address required lighting levels, uniformity and environmental issues, while minimizing the number of poles and luminaires used to illuminate the space.

Our comprehensive product line allows Holophane to recommend ideal solutions effectively for all exterior lighting applications.

For over half a century, American Electric Lighting (AEL) has been recognized for high quality and reliability in outdoor, utility and infrastructure lighting.

AEL products include luminaires for roadway, industrial, commercial, area lighting, security and flood applications. DTL has been a large part of our success by offering top-of-the-line photocontrols.

By remaining focused on the products that are dedicated to infrastructure, utilities and municipalities, our goal is to continue to provide the superior design, quality and reliability that our customers demand.
Outdoor Lighting
Acuity Brands, Inc. is a North American market leader and one of the world’s leading providers of lighting solutions for both indoor and outdoor applications. Our innovative lighting solutions cover both conventional fixtures and advanced solid-state technology that can seamlessly integrate with powerful digital controls and daylighting to create greater energy efficiencies and a higher quality of light.

Our century of tradition, our current financial strength and our commitment to a sustainable future ensure our ability to grow, innovate and further capture the rapidly growing market opportunities before us.
Why Controls?

In today’s world, lighting designers, engineers and facility managers have to do more with less. Shrinking budgets, expanding energy regulations and increased consumer demand require an outdoor lighting system that is simultaneously cost-effective and code-compliant, yet delivers a safe and secure environment.

A lighting strategy that incorporates more modern, efficient lighting with digital controls helps customers realize significant advantages over lighting-only options. Stand-alone, or component-based controls can provide significant energy savings and require little or no programming. System-based solutions link devices to control one or multiple spaces and offer a higher level of functionality than component controls.

Energy Management / ROI

Applying lighting controls to unmanaged lighting saves 25% - 45% of the lighting energy in many spaces. Popular outdoor lighting control strategies for energy management include dimming, scheduling and monitoring. Lowering energy consumption through the use of controls also provides enhanced sustainability and significantly reduces the impact of the carbon footprint.

The right control strategy can also have a positive impact on a project’s return on investment by not only reducing energy consumption, but also lowering maintenance costs and extending the life of new and existing luminaires. Proper use of controls can even enhance retail commerce by providing reliably lit commercial areas.

Site-Wide Control

Intelligent lighting controls simplify complex projects with graphical interface management of larger lighting systems. In many cases, the lighting control system can seamlessly connect to already-installed site automation systems. Proper use of these control systems can also provide simple steps to reduction of light trespass/pollution.

Safety

Monitoring and diagnostics in outdoor lighting spaces enables quick response to street lighting failures, virtually eliminating citizen and customer complaints, while helping to provide more rapid restoration of luminaire operation. Reliable, high quality lighting systems improve visibility in roadway and parking environments and is a proven deterrent to crime, especially around large business or education campuses.

Retrofitability

Deploying lighting controls in existing spaces can be simple and effective when the controls are designed for easy retrofit. Highly scalable solutions install with minimal changes to existing infrastructure and take advantage of technology to simplify reconfiguration.
Advanced Outdoor Lighting Controls that Simply Work

It’s not just smarter. It’s easier.
Acuity Controls provides advanced lighting controls technology, service and support from a single expert source. We offer one of the industry’s most extensive product portfolios for indoor and outdoor applications; single rooms to campuses to municipalities. Our product solutions include occupancy and photosensors, centralized and distributed systems, panels, fixture-integrated, wired and wireless controls that simply work.

DTL®
Throughout the United States and around the world, DTL is recognized by the industry as a provider of high-quality, cost-effective electronic photocontrols to utility, commercial and municipal customers. DTL is an established market leader with the breadth of product to cover all applications, including roadway, area lighting, floodlights, security and residential.

   DLL Elite
   With superior LED inrush current protection and TRIAC-assisted relay, the DLL Elite LED photocontrol is designed to last as long as the LED lighting system itself – 20 years or longer.

   DTL Connect
   Ideal for security lighting, the DTL Connect Series photocontrol and remote allows utilities to enable and disable difficult-to-access area lights from the ground with the touch of a button. Built upon the robust, long-life design of the DLL Elite, the DTL Connect Series offers long-life relay performance and superior surge protection. The DTL Connect Series retrofits on existing security lights, or works perfectly on new LED luminaires.

ROAM
ROAM® is a wireless outdoor lighting management system that delivers the flexible control strategies customers need to fit a wide range of applications - from individual parking lots to large municipalities and utilities, new construction or retrofit. With a complete portfolio of solutions, ROAM has the right platform for every outdoor lighting need.

   ROAM Integral Dimming Node
   With a power measurement accuracy of 0.5%, the GPS-enabled ROAM Integral Dimming Node offers an ANSI C136.41-compliant interface across a full range of voltages (120-277V, 347V and 480V). The node, which can be easily retrofitted to any existing outdoor LED lighting fixture, is a CULUS-listed product.

Sensor Switch
Sensor Switch® employs a 100% digital Passive Infrared (PIR) detector. Each lens is specially engineered for small or large motion detection, ensuring the best detection for any specific application.

Sensor Switch’s products have many features that make them the most technologically advanced in the industry:
- Continuous coverage patterns for small motion detection
- Relay circuit protection tested for over 400,000 switching cycles
- Widest array of sensors offered from any manufacturer
Award-Winning Technology
Customers significantly reduce operating costs and optimize the performance of outdoor lighting systems when using ROAM’s award-winning technology. Through a robust mesh network, the ROAM devices wirelessly communicate with a central data center to deliver state-of-the-art monitoring, control and measurement.

ROAM Technology: Proven Performance for Multiple Applications
ROAM offers the flexibility customers need to fit a wide range of applications – from individual parking lots to university campuses, new construction or retrofit. With a complete portfolio of solutions, ROAM has the right platform for every outdoor lighting need:

- **ROAMview™:**
  A pre-packaged ROAM system for small-scale deployments up to 2,000 devices. With its pre-configured server and plug-and-play format, this locally hosted system is scaled to meet the needs of modest-sized, single-site properties.

- **ROAM Enterprise:**
  Like ROAMview, ROAM Enterprise is a locally hosted system, but it is sized to meet the needs of municipal, multi-site and large institutional customers by offering 100,000+ node capacity and a more extensive set of diagnostic capabilities. It can be deployed on a customer’s existing IT infrastructure.

- **ROAM Concierge:**
  Providing the same extensive feature set as ROAM Enterprise, ROAM Concierge offers a centrally hosted system for customers that don’t want to make any IT infrastructure investments.

Monitor. Control. And so much more...
ROAM’s ability to monitor and precisely control your outdoor lighting does much more for your bottom line than just help save on energy costs. ROAM also:

- Provides user-friendly customer portal with secure, web-based GIS map or dashboard graphic interface;
- Continuously monitors for equipment malfunctions and unusual conditions that may lead to premature failure such as daytime operation, low and excessive wattage and high and low voltage;
- Automatically notifies the system operator of problems;
- Enables scheduled and on-demand ON/OFF and dimming control for individual or groups fixtures;
- Provides an accurate measurement of operating hours and power from a single web-based interface with customized reports;
- Identifies and corrects problems before they turn into premature failures;
- Generates information about the outdoor lighting system for energy analysis, energy savings verification, warranty enforcement and other purposes;
- Delivers billable-quality energy data allowing transition from flat-rate to metered energy billing*.

* With ROAM metering node
How ROAM Works

ROAM consists of a mesh network of intelligent photocontrols, or nodes, used to control 25-1000W 120-480VAC LED, HID and other fixtures. Nodes monitor fixture performance and operating conditions, and execute commands based on inputs such as schedules and daylight levels. Information collected about fixture performance is wirelessly transmitted to a gateway and passed on to a server, where it is graphically displayed at a customer workstation.

Smart Photocontrols
- Commands onboard dimming driver
- Operates with any outdoor LED, HID or other fixtures
- Spacing can be up to 1,000 feet apart
- Provides increased surge protection for durability
- Power measurement capability provides +/-0.5% accuracy
- Works with ANSI C136.41 five or seven pin photocontrol receptacle

Gateway
- Receives data and transmits commands to nodes
- Communicates with up to 2,000 devices reducing installed cost
- Uplinks via cellular or Ethernet communication
- Mounts on pole or building

Network Operation Center
- Receives and stores all data from Gateways
- Analyzes and stores fixture data on secure data servers
- Uses encryption scheme approved by NSA
- Available in customer-hosted or Acuity-hosted options

Customer Portal
- Provides secure, web-based user GIS map or dashboard graphic interface
- Displays operating conditions and performance data
- Controls and schedules ON/OFF/TRIM/DIM for individual fixtures or groups
- Manages lighting at one or multiple sites

Controls and LED Technology
As the LED lighting revolution expands, lighting managers and end users are investing in outdoor LED lighting with the promise of reduced operating costs. Lighting manufacturers and industry experts agree: to maximize the Return on Investment (ROI), driven by reduced maintenance and energy costs, LED lighting must be properly controlled and managed.

ROAM wireless controls complete your LED investment by providing the intelligent control and feedback necessary to successfully manage your outdoor LED fixtures. Intelligent lighting solutions utilizing Acuity Controls ROAM technology provide system monitoring, control and dimming interface capability. Many Holophane and AEL luminaires incorporate this type of intelligence and offer various alternatives to meet specific dimming needs. For more detailed information on ROAM visit www.roamservices.net
Controls Applications

- Streets and Highways
- Collector Roads
- Residential Areas
- Seaports
- Airports
- Rail Yards
- Transportation Terminals
- Military Bases
- Industrial Parks
- Campuses
- Parking Areas
- Parks & Recreation
Architectural Lighting
Tear Drop LED & GranVille II LED

- Decorative Arm Fitter
- Cast Aluminum Finial
- Top Reflector
- Optional Photocell Window
- Bottom Reflector
- Dedicated Heat Sink
- Pole Options
- Hinged Door
- LED Module

Tear Drop LED Series
GranVille II LED
Washington Series LED (Glass)
Washington Series LED (Acrylic)
Contempo Series 245L LED
Lantern Post Top LED

Full Cutoff LED Series
247L LED Series
AVPL2 LED Series
ARDL LED Series
GlasWerks LED Series
**Infrastructure Lighting**

ATB2 LED & HMAO LED II

- **NEMA Photocontrol Receptacle**
- **Sloped Housing and Weep Holes for Effective Drainage**
- **21 lb. unit**
- **Optional twist off photocontrol receptacle**
- **Heat dissipating fins ensure long LED driver life**
- **Diecast Aluminum Housing**
- **Tool-Less Entry Trigger Latch**
- **Available in 6, 9 and 12 LED module configurations**
- **Optical housing rotates to orientate “Street Side” to roadway**

Autobahn LED - ATB2  
Autobahn LED - ATB0  
Autobahn LED - ATBM  
Autobahn LED - ATBS  
Mongoose LED

HMAO LED II  
LED Nema Head Series LNH2  
Wallpack LED  
Floodlight LED (ACP & Predator)  
TunnelPass LED
## Each of Our Outdoor LED Luminaire and Control Solutions Offer Some or All of These Important Features

<table>
<thead>
<tr>
<th>FEATURE</th>
<th>EXPLANATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Field Adjustable Output Module</td>
<td>Onboard device that adjusts the light output and input wattage to meet site specific requirements, allowing a single fixture configuration to be flexibly applied in many different applications.</td>
</tr>
<tr>
<td>Premium Solid State Photocontrols</td>
<td>Premium Dark to Light, Solid State approved, NEMA locking style photocontrol.</td>
</tr>
<tr>
<td>Occupancy Sensor</td>
<td>100% digital Passive Infrared (PIR) detector.</td>
</tr>
<tr>
<td>Dimming Driver</td>
<td>Fixture is supplied with a 0-10V dimmable driver.</td>
</tr>
<tr>
<td>Night Trimming</td>
<td>Trimming light levels at the beginning and ending of the dusk to dawn cycle to reduce energy consumption.</td>
</tr>
<tr>
<td>Multi-Level Dimming</td>
<td>The ability to provide at least a minimum of two light levels as part of a designated control scheme.</td>
</tr>
<tr>
<td>Constant Lumen Output</td>
<td>Driver programmability to start at a dimmed level for a new luminaire and gradually increase power over the life of the light source. Compensates for lumen depreciation, thereby ensuring constant lumen output, saving energy and extending the lifetime of the system.</td>
</tr>
<tr>
<td>Remote Dimming</td>
<td>Wireless adaptive technologies such as Acuity Brands ROAM controls allowing for full control of luminaire operation and variable light output.</td>
</tr>
<tr>
<td>Monitoring &amp; Diagnostics</td>
<td>Wireless monitoring and diagnostic capabilities allowing you to monitor and log operational performance data and rapidly identify non-functional lighting.</td>
</tr>
<tr>
<td>Local Remote On/Off</td>
<td>The ability to turn the luminaire off and on using a DTL Connect Services hand-held remote control.</td>
</tr>
</tbody>
</table>
## Product Matrix - Infrastructure Lighting

Alpha codes below designate product option catalog nomenclature. Refer to luminaire spec sheets for exact ordering information and description.

<table>
<thead>
<tr>
<th>LUMINAIRE</th>
<th>FIELD ADJUSTABLE</th>
<th>OUTPUT MODULE</th>
<th>PREMIUM SENSORS</th>
<th>OCCUPANCY SENSOR</th>
<th>DIMMING DRIVER</th>
<th>NIGHT DIMMING</th>
<th>MULTI-LEVEL DIMMING</th>
<th>CONSTANT LUMEN OUTPUT</th>
<th>REMOTE DIMMING</th>
<th>MONITORING &amp; DIAGNOSTICS</th>
<th>LOCAL/REMOTE ON/OFF</th>
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</thead>
<tbody>
<tr>
<td>Autobahn LED - ATB2</td>
<td>AO</td>
<td>PCSS</td>
<td>PCLL</td>
<td></td>
<td>DM</td>
<td>P5</td>
<td>P7</td>
<td>ML</td>
<td>P5</td>
<td>P5</td>
<td>P5</td>
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<tr>
<td>Autobahn LED - ATBO</td>
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<td>PCSS</td>
<td>PCLL</td>
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<td>DM</td>
<td>P5</td>
<td>P7</td>
<td>ML</td>
<td>P5</td>
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<td>Autobahn LED - ATBS</td>
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<td>P7</td>
<td>ML</td>
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<tr>
<td>Autobahn LED - ATBM</td>
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<td>P5</td>
<td>P7</td>
<td>ML</td>
<td>P5</td>
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<td>Mongoose LED</td>
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<td>P7</td>
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<tr>
<td>HMAO LED II</td>
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<td>PCSS</td>
<td>P34</td>
<td>P48</td>
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<tr>
<td>LED Nema Head Series LNH-2</td>
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<td>P5</td>
<td>P7</td>
<td>ML</td>
<td>P5</td>
<td>P5</td>
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<td>Wallpack LED</td>
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<tr>
<td>Floodlight LED (ACP &amp; Predator)</td>
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<td>PCLL</td>
<td></td>
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<td>P7</td>
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<tr>
<td>TunnelPass LED</td>
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</tr>
</tbody>
</table>

*Available upon request, additional customer information required. Please contact technical support group.*

*Occupancy sensor must be installed externally on pole.*
# Product Matrix - Architectural Lighting

Alpha codes below designate product option catalog nomenclature. Refer to luminaire spec sheets for exact ordering information and description.

<table>
<thead>
<tr>
<th>LUMINAIRE</th>
<th>PREMIUM SOLID STATE PHOTOCELLS</th>
<th>OCCUPANCY SENSOR</th>
<th>DIMMING DRIVER</th>
<th>NIGHT TIMMING</th>
<th>REMOTE DIMMING</th>
<th>MONITORING &amp; DIAGNOSTICS</th>
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<tr>
<td>Pedestrian Tear Drop LED</td>
<td>PCS P34 P48</td>
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<td>DM</td>
<td>P5 P7 DE VE</td>
<td>P5 P7 DE VE</td>
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<td>Tear Drop LED</td>
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<td>DE VE</td>
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<td>Utility Postop LED</td>
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<tr>
<th>LUMINAIRE</th>
<th>PREMIUM PHOTO CONTROLS</th>
<th>OCCUPANCY SENSOR</th>
<th>DIMMING DRIVER</th>
<th>NIGHT TRIMMING</th>
<th>REMOTE DIMMING</th>
<th>MONITORING &amp; DIAGNOSTICS</th>
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<td>PCSS</td>
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Outdoor Controls

Case Study - Washington State DOT

WSDOT is first DOT to install and DIM LED lighting along freeway

Autobahn ATB2 Luminaires Combined with Control System Offer Potential to Slash Energy and Maintenance Costs

Drivers along US Highway 101 west of Olympia, Washington enjoy whiter light and greater uniformity as the result of the first LED lighting system installed along an American freeway. The Washington State Department of Transportation (WSDOT) installed 88 Autobahn ATB2 luminaires from American Electric Lighting (AEL) along a 1.3 mile stretch of roadway near Black Lake Boulevard as a pilot project.

The new LED system is part of WSDOT’s sustainability efforts and replaces the previous high pressure sodium (HPS) system, which costs WSDOT an estimated $3.9 million statewide in illumination utility costs annually. The LED lighting system incorporates a Remote Asset Management (ROAM) system from Acuity Brands that allows WSDOT crews to remotely monitor luminaire performance and control light output based on traffic levels.

Photos courtesy of Washington State DOT
WSDOT's maintenance program funded the lighting retrofit based on anticipated energy and maintenance savings. The department estimates the LED technology with dimming controls will save more than $75,000 in maintenance and operating costs over the life of the system (approximately 15 years) compared to standard HPS luminaires. The new technology will also reduce energy consumption by more than 1.7 million kilowatt-hours of electricity.

WSDOT selected the Autobahn ATB2 luminaires and ROAM system because they provide the ability to remotely set dim schedules for individual and groups of luminaires. WSDOT implemented the lighting retrofit in two phases, with the luminaires installed during phase one and the control system implemented as part of phase two.

The Autobahn fixtures were installed on existing 40-foot metal poles that include 16-foot mast arms, with the LED fixtures replacing the HPS units one-for-one. Poles are 16 feet from the side of the interstate, located along each shoulder.

To save energy, WSDOT remotely switches off 66 of the 88 LED luminaires between 11 p.m. and 5 a.m. The other 22 fixtures at ramp connections and intersections on Black Lake Boulevard remain illuminated overnight. Illumination levels are .6 footcandles when luminaires operate at full power.

WSDOT currently targets average illuminance levels of 0.6 footcandles for the entire roadway during peak period operation. During non-peak period operation, WSDOT targets 0.6 footcandles at the ramp connections and intersection areas only.

The lighting system is designed to compensate for the natural lumen depreciation of the LED. Using ROAM, WSDOT is dimming the light fixtures by 30 percent at initial installation and gradually increasing the input power to compensate for LED lumen depreciation over time. This will provide WSDOT with additional energy savings and ensure that light levels are constant throughout the fixtures’ service life.

WSDOT will clean the Autobahn LED fixtures in six years and evaluate the luminaires at that time to determine when they will require maintenance. Engineers expect the LED system to last 12 to 15 years without maintenance - beyond the 6 year cleaning - compared to four years for the high pressure sodium luminaires.

Although the LED system is still undergoing evaluation, engineers report that driver comments have been positive, with individuals indicating they like the whiter light and the fact the system helps WSDOT save energy. WSDOT recently installed additional Autobahn luminaires along an adjoining one mile stretch of US Highway 101, and on Interstate 90, which extends through the heart of Spokane.

WSDOT will likely increase its use of LED highway lighting as national standards for highway lighting continue to evolve and costs for LED lighting decrease. The department is currently conducting research with the University of Washington to help ensure existing and future lighting systems are as efficient and effective as possible while meeting WSDOT’s safety and operational goals.
Cities of the future will enjoy safe and reliable illumination provided by technologically advanced and intelligent lighting systems designed for performance and sustainability. Integrated solutions will promote lighting efficiency and provide advanced monitoring and control capabilities to ensure system longevity and reduce costs.

As the industry leader, Acuity Brands will expand upon products such as our DSS and DLL Elite Series photocontrols, offering in-rush protection and extreme surge protection for long-term system performance.

We will lead with remote control features inherent to our DTL Connect series for time- and cost-saving convenience and security.

We will continue to pioneer wireless street and area lighting management systems such as ROAM, ROAMview and IDC (Intelligent Dimming Controls) to provide owners greater flexibility, reduce system costs and create secure and functional environments.

**Illuminating the internet of things**

Acuity Brands and Sensity Systems have developed a single, integrated solution that will transform energy-efficient LED lighting into a smart platform for data-driven applications – like public safety and security, parking management, location analytics and many others.

**Connected. Available. Secure.**

The Smart Lighting Network delivers value beyond adaptive controls across lighting infrastructure. It transforms LED light fixture into sensor-equipped, smart devices capable of capturing and transmitting data near real-time, providing unprecedented actionable insight and enabling a broad array of applications and services.

**Beyond Lighting Control**

- Video Surveillance
- Parking & Traffic
- Security
- Wi-Fi
The Acuity Brands commitment to superior lighting solutions begins with the industry’s strongest portfolio of quality products. Within our family of leading luminaire brands such as Holophane and American Electric Lighting, you will find over a century of experience providing an unequaled breadth of product to meet a variety of outdoor lighting needs in commercial, institutional, municipal and DOT applications.

Customers seeking to attain peak performance and sustainability require lighting and controls with cutting-edge technologies, durability and efficiency to perform at high levels for the long haul. Acuity Controls designs and builds a wide array of products to do exactly that including industry-leading controls products from product families such as ROAM and DTL.

But, it doesn’t stop with engineering and product development... we also strive to create relationships with customers in which we work together to find sensible, comprehensive solutions. Think of us as a partner you can count on. For 65 years, we’ve made and kept that promise. At Acuity Brands, it’s at the core of everything we do.