





Experts in Outdoor Lighting and Controls Solutions



With over a century of experience in leading the lighting industry, brands like Holophane® and American Electric Lighting® can provide you the right luminaire for the right application, and ensure proper interoperability with Acuity Controls systems.



From stand-alone controls fully integrated into the design of the luminaire, to connectivity with more comprehensive networked systems, Holophane and AEL solutions combine durability and performance with long life and system interoperability. While the Dark to Light® brand sets the bar for the most reliable, state-of-the-art outdoor photocontrol solutions, the ROAM® brand offers a complete portfolio of networked control systems to provide sophisticated monitoring, diagnostics and scheduled control.



So regardless of your application, you can rest assured that Acuity Brands® can meet all your outdoor lighting and controls needs with solutions that reduce costs, enhance safety and simplify your life.





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.



The Controls Evolution

From dusk to dawn to connected technologies, outdoor lighting controls is evolving like never before

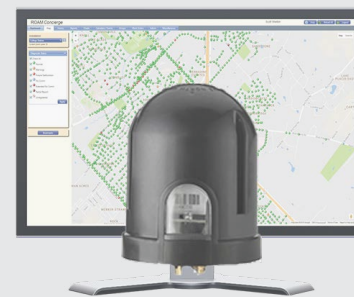
For many years, outdoor lighting control was simplified with the stand-alone photocontrol providing dusk to dawn lighting. By utilizing the NEMA receptacle, fixtures were equipped with a standard way to implement a basic sensor. But as technology evolved, so did this basic sensor. The photocontrol became equipped with intelligence and communication abilities. This provided a greater understanding of how fixtures were performing, and gave us flexible control of the fixture. With a connected infrastructure, we saw firsthand the benefits of a world where data influenced our decisions, and sought to improve our lives.

Applying these same principles, the concepts of a Smart City were born. Data was collected from sensors, and communicated back to a central location for further insight into the space. But this was just the beginning. With the introduction of LED technology, lighting began to transform our spaces from illuminated areas to canopies of technology, lighting the way to a truly different future. With lighting, we have the right connection, in the right location, and at the right time to expand the boundaries of lighting.

As this evolution continues, Acuity Brands has a breadth of products to meet you in your journey. No matter if you are still focused on basic dusk to dawn lighting, connected technologies, or something in between, our product lines support your timeline. By designing products that utilize the industry standard NEMA receptacle, we position you to invest at your pace, and reap the benefits that are best suited to your needs.



Sensor-Based Controls



Lighting Management



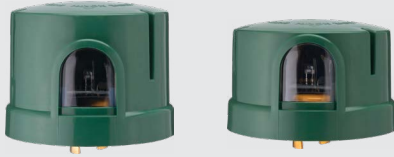
Connected Technologies

Stand-alone Outdoor Lighting Controls



DTL provides high-quality, cost-effective electronic photocontrols to utility, municipal and commercial customers. DTL has products to cover all applications, including roadway, area lighting, floodlights, security and residential.

LED Photocontrols



Standard

Low Profile

DLL Elite

With a 20-year design life for LED applications, the DLL Elite offers inrush current protection utilizing a TRIAC assisted relay and best-in-class surge protection.

Remote Control Photocontrols



DCC

DCR

Connect Series (DCC & DCR)

An ideal choice for utility security lighting applications, the Connect Series LED photocontrol allows customer to enable and disable area lights with the touch of a button.

Premium Non-LED Photocontrols



DP Series

DE Series

DP and DE Series

DP Series photocontrols utilize premium components and drift resistant silicon light sensors while the DE Series adds an infrared-blocking filter for consistent turn-on over the life of the control.



Outdoor Lighting Motion Sensors

By utilizing Passive Infrared (PIR) technology, Sensor Switch® outdoor motion sensors can be used to automatically adjust fixture dim levels. Operations such as on-off or high-low can be created in a stand-alone sensor (SBOR Series) or paired with a networked lighting control node (SBO Series).

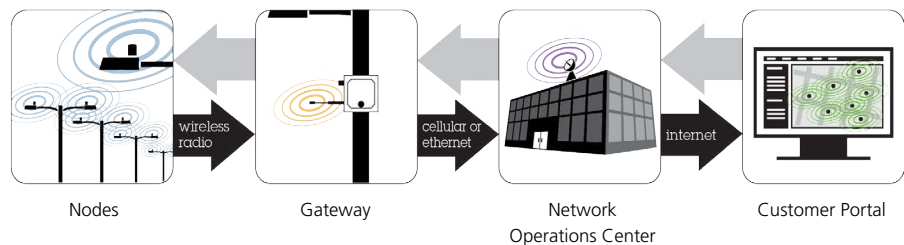
SBOR Series is a line voltage motion sensor with integrated switching (built-in relay), photocell and dimming control. It is designed for stand-alone programming and operation.

SBO Series is a low voltage motion sensor commonly used in conjunction with dimming driver enabled fixtures and networked controls.

Networked Outdoor Lighting Controls



ROAM® is a wireless outdoor lighting management system that helps minimize maintenance costs, optimize energy use and provide an improved nighttime environment.



Features:

- + LED Dimming Capable
- + Metered Energy Consumption
- + Precise Fixture Location
- + Work Order Management

Benefits:

- + Monitor Fixture Performance
- + Diagnose Failures
- + Remotely Control & Schedule
- + Improve Maintenance

Networked Outdoor Lighting Controls — DTL

The DTL DSN solution combines the reliability of the DLL Elite photocontrol, designed for 20-year operating life, with the performance of the Itron network platform for unparalleled functionality and adaptive control of street lighting systems.

- + Superior TRIAC based inrush protection
- + Superior surge protection
- + Revenue-grade metering with infrared pulse interface
- + 7-PIN node with 24V DC power for pins 6-7
- + Available in 120-277 Volts, 347 Volt and 480 Volt
- + 0-10V & DALI dimming, With or without GPS



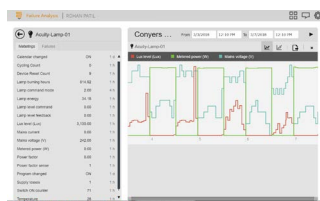
ADVANCED DASHBOARD

Streetlight Vision for Smart Streetlights and Smart City Sensors

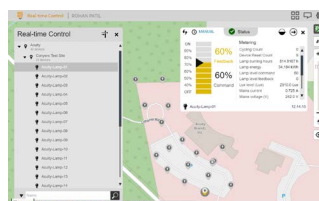
The DTL DSN utilizes Streetlight Vision, an innovative central management software (CMS) from Itron Networked Solutions.

Highlights of Streetlight Vision and the Itron ready Network Platform

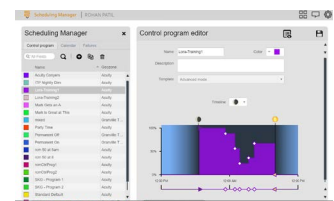
- + Advanced lighting management
- + Controls multiple Smart City sensor devices
- + Open APIs (application program interface) and developer program



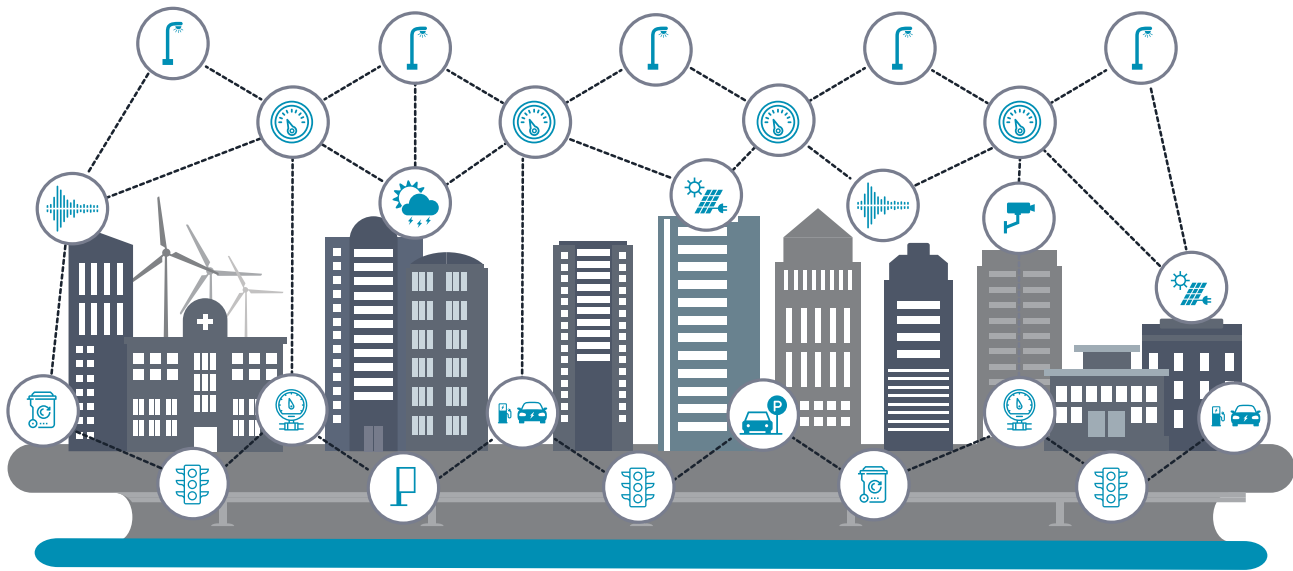
INTUITIVE DIAGNOSTICS



REAL-TIME CONTROL



GRANULAR CONTROL PROGRAMS & SCHEDULING



- 
Smart Street Lights
- 
Smart Meters
- 
Smart Parking
- 
Environmental Sensors
- 
Digital Signage
- 
Acoustic Sensors
- 
Water & Gas Metering
- 
Traffic Lights & Controls
- 
Electric Vehicle Charging
- 
Solar Inverters
- 
Security & Surveillance
- 
Waste Management

With the DTL DSN solution, you now have access to a multi-application platform, providing one network for critical infrastructure solutions like smart lighting, smart metering and other outdoor IoT technologies.

ONE NETWORK
For Streetlights and Smart City Infrastructure



MAINTAINED
24x7 Monitoring and Service Level Agreements



DELIVERED
A Smart City Platform to Harness the Power of IoT Sensor Data

Why choose the DTL DSN solution powered by the Itron network platform?

PROVEN: Access a robust network supporting over 27 million devices combined with world-class LED photocontrol technology.

SECURE: Protect your most sensitive data with secure AES 256-bit encryption and multi-layer protection with continuous security monitoring.

FAST: Deliver real-time, actionable data for business-critical needs.

FLEXIBLE: Leverage one system capable of connecting multiple smart city devices and applications.

FUTURE ORIENTED: Obtain data through open APIs to enable future application development.

Ready to build a smart network?

Acuity Brands is a certified Itron partner and can provide the complete solution.

Already have the Itron network (formerly Silver Spring Networks)?

We are a certified partner with equipment to integrate with existing networks.



Ideal Controls Applications

- Streets and Highways
- Collector Roads
- Residential Areas
- Seaports
- Airports
- Rail Yards
- Transportation Terminals
- Military Bases
- Industrial Parks
- Campuses
- Parking Areas
- Parks & Recreation





Each of Our Outdoor LED Luminaire and Control Solutions Offer Some or All of These Important Features

Feature	Explanation
Field Adjustable Output Module	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.
Premium Solid State Photocontrols	Premium Dark to Light, Solid State approved, NEMA locking style photocontrol.
Occupancy Sensor	100% digital Passive Infrared (PIR) detector.
Dimming Driver	Fixture is supplied with a 0-10V dimmable driver.
Night Trimming	Trimming light levels at the beginning and ending of the dusk to dawn cycle to reduce energy consumption.
Multi-Level Dimming	The ability to provide at least a minimum of two light levels as part of a designated control scheme.
DALI	Fixture supplied with a DALI dimmable driver (Digital Addressable Lighting Interface)
Remote Dimming	Wireless adaptive technologies from Acuity Brands allow for full control of luminaire operation and variable light output.
Monitoring & Diagnostics	Wireless monitoring and diagnostic capabilities allowing you to monitor and log operational performance data and rapidly identify non-functional lighting.
Local Remote On/Off	The ability to turn the luminaire off and on using a DTL Connect Services hand-held remote control.
Lighting Zones	The configuration of an individual or multiple luminaire's controls that respond in unison. The control will turn on, off, dim or adjust light levels based on the program.

REDUCE ENERGY, EXTEND AND PROTECT

Architectural Lighting

Tear Drop & Granville II LED

The Holophane and AEL brands offer a wide variety of Architectural Outdoor LED luminaires that are compatible with Acuity Brands controls solutions.



Tear Drop LED Series

GranVille® II LED

Washington Postlite® Series LED

Hartsfield LED

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 III

Outdoor Infrastructure lighting solutions from Acuity Brands combine controls with the industry's best luminaires for roadway, flood, security and specialty applications.



Mongoose® LED

Autobahn LED
ATB0, ATB2 &
ATBMIC

Autobahn LED
ATBL, ATBM & ATBS

WatchLight LED

LNH2 Series

Parkpak® LED



HMAO™ LED III



Wallpack® LED



Wallpack® LED
Full Cutoff














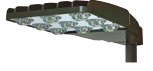




Floodlight LED
(ACP & Predator®)




TunnelPass LED™
Large & Medium

Product Matrix - Infrastructure Lighting

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



























LUMINAIRES	FIELD ADJUSTABLE OUTPUT MODULE	PREMIUM SOLID STATE PHOTO CONTROLS	OCCUPANCY SENSOR	DIMMING DRIVER	NIGHT TRIMMING	MULTI-LEVEL DIMMING	DALI	REMOTE DIMMING	MONITORING & DIAGNOSTICS	LOCAL REMOTE ON/OFF
 Autobahn LED - ATB2	AO	PCSS PCLL		DM	P7	ML		P7	P7	PCCC
 Autobahn LED - ATB0	AO	PCSS PCLL		DM	P7	ML		P7	P7	PCCC
 Autobahn LED - ATB Micro	AO	PCSS PCLL		DM	P7	ML		P7	P7	PCCC
 Autobahn LED - ATBS	AO	PCSS PCLL		DM	P7			P7	P7	PCCC
 Autobahn LED - ATBM	AO	PCSS PCLL		DM	P7			P7	P7	PCCC
 Autobahn LED - ATBL	AO	PCSS PCLL		DM	P7			P7	P7	PCCC
 Mongoose LED		PCSS		DM	P7	ML		P7	P7	PCCC
 LED Nema Head Series LNH2	AO	PCSS PCLL			P7			P7	P7	PCCC
 Watch Light LED		PCSS PCLL			P7			P7	P7	PCCC


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


 Occupancy sensor must be installed externally on pole.

Product Matrix - Infrastructure Lighting

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 HMAO LED III		PCSS PCLL P34 P48		STANDARD				P7	P7	PCCC	
 Floodlight LED (ACP & Predator)		PCLL		DM	P7			P7	P7	PCCC	
 TunnelPass LED				DM							
 TunnelPass LED Medium				DM							ICMNYX ICMECH
 Wallpack LED W4GLE	AO	P7		STANDARD	P7			P7	P7	PCCC	
 Wallpack LED W4PLED				STANDARD							
 Wallpack FCO LED	AO	PCLL & P7 MASL MASH	MASL MASH	STANDARD	PND			P7	P7	PCCC	
 Parkpak LED	AO	MASL MASH	MASL MASH	STANDARD							XPOINT


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LUMINAIRES	PREMIUM SOLID STATE PHOTO – CONTROLS	OCCUPANCY SENSOR	DIMMING DRIVER	DALI	NIGHT TRIMMING	REMOTE DIMMING	MONITORING & DIAGNOSTICS
 <p>Pedestrian Tear Drop LED</p>	PCS P34 P48 PCLL		FPDXX		P7E DE PND	P7E DE	P7E DE
 <p>Tear Drop LED II</p>	PCS P34 P48 PCLL		FPDXX		P7E DE PND	P7E DE	P7E DE
 <p>GranVille II LED</p>	PCS P34 P48 PCLL		FPDXX		DE PND	DE	DE
 <p>Washington Glass LED</p>	PCS P34 P48 PCLL		FPDXX		DE PND	DE	DE
 <p>Washington Acrylic II LED</p>	PCS P34 P48 PCLL		FPDXX		DE PND	DE	DE
 <p>Utility Arlington LED</p>	PCS P34 P48 PCLL		FPDXX		P7E DE PND	P7E DE	P7E DE
 <p>Utility Postop LED</p>	PCS P34 P48 PCLL		FPDXX		P7E DE PND	P7E DE	P7E DE
 <p>Utility Jefferson LED</p>	PCS P34 P48 PCLL		FPDXX		P7E DE PND	P7E DE	P7E DE

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 <p>245L LED</p>	PCLL PCSS		DM		P7	P7	P7
 <p>Hartstfield HTFL Series</p>	P34 P48 PCSS PCLL		DM		P7	P7	P7
 <p>Full Cutoff Utility Series</p>	PCS P34 P48		FPDXX			DE P7E	DE P7E
 <p>247L Series</p>	PCLL		DM		P7	P7	P7
 <p>AVPL2 Series</p>	PCLL		DM		P7	P7	P7
 <p>ARDL Series</p>	PCLL		DM		P7	P7	P7
 <p>GlasWerks LED Series</p>	PCS P34 P48		FPDXX		P7E DE PND	P7E DE	P7E DE

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Acuity Brands Lighting, Inc.

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Milton Keynes MK1 1JG, England

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Cuahtitlan 54900 Tultitlan Edo. De Mexico

Contact your local Holophane factory sales representative for application assistance, and computer-aided design and cost studies. For information on other Holophane products and systems, call the Inside Sales Service Department at 866-759-1577. In Canada call 905-886-8967 or fax 905-886-7973.

Warranty Five-year limited warranty.
Full warranty terms located at
www.acuitybrands.com/CustomResources/Terms_and_conditions.aspx

Visit our web site at www.holophane.com

*Product specifications may change without notice.
Please contact your local Holophane factory sales representative for the latest product information.*

