



# Military Bases

Infrastructure Lighting & Controls Solutions







## Improve your city infrastructure with LED lighting solutions from Acuity Brands

Acuity Brands® is a partner you can trust to keep your base infrastructure strong and healthy for years to come.

We provide a complete range of LED products including cobraheads, high mast and a plethora of architectural pole-mounted products. Each luminaire may work independently or as part of an integrated solution, utilizing our controls and network capabilities.

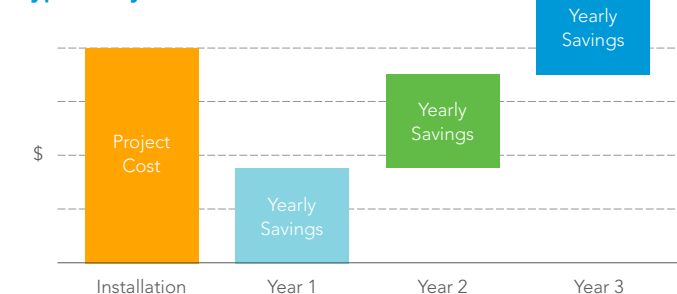


We're the leader in LED technology. Upgrading to Acuity Brands LED facilitates a faster payback.

LED is a highly energy-efficient lighting technology, and is fundamentally changing the future of lighting. Why? Because LED:

- Has the greatest potential impact on energy savings, reducing energy consumption by up to 70%
- Reduces labor and downtime costs associated with the maintenance of traditional lighting sources
- Heightens visibility which can help enhance safety in the environment
- Provides complete control and flexibility when installed with an optimized wireless network

Typical Payback Chart



## LED systems last longer than traditional HID technology

And they maintain constant light levels throughout that lifespan, as well.

With unparalleled lifespans of up to 100,000 hours, LEDs last significantly longer than traditional sources, delivering years of continuous operation.

Our LED luminaires boast minimal lumen depreciation over the life of the luminaire, compared to high pressure sodium

(HPS) lamps that have a rated life of 24,000 hours and rapidly-depreciating lamp lumens.

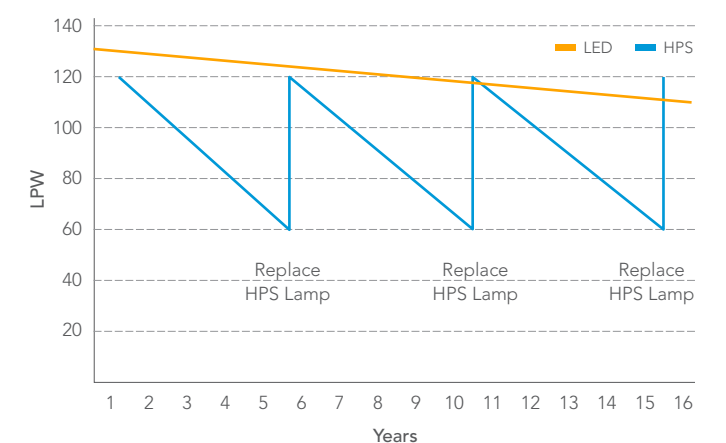
Add reduced maintenance and improved visibility to the picture, and the advantages are clear.

### LEDs offer reduced maintenance

The long life of LEDs means eliminating three to four lamp changes over the life of the luminaire. This could mean substantial savings in lamp and labor costs associated with both routine and unexpected maintenance.

### Improved visibility, too

Advances in LED technology have made solid state luminaires the preferred choice over HPS lamps for uniform illumination and higher color rendering. The improved light creates an environment that can enhance safety and promote consumer activity in commercial districts.





## The Acuity Brands Military Lighting Portfolio

The Holophane and American Electric Lighting brands leverage over a century of experience to provide the world's most comprehensive portfolio of lighting solutions for military bases and installations. Solutions range from decorative to non-decorative solutions that reduce base operating costs while enhancing security and sustainability. The following pages provide an overview of many of the selections from which you can choose. Contact your account representative for the latest list of available products.

## Infrastructure Solutions



### Cobrahead



Autobahn ATBL



Autobahn ATBM



Autobahn ATBS



Autobahn ATB2



Autobahn ATB0



### Flood Lighting



Predator™ LED



ACP LED



### Cobrahead



Mongoose® LED

### High Mast



HMAO™ LED II



### Poles & Lowering Devices



High Mast Poles and Lowering Devices

## Decorative Solutions



### Post Tops

Arlington LED



Postop LED



Jefferson LED



### Full Cutoff

Arlington LED-FCO



Postop LED-FCO



Washington LED-FCO



### Acorns

GranVille® LED II Classic



GranVille LED II Utility



Washington PostLite® LED



### Pendant

Tear Drop LED II



Pedestrian Tear Drop LED



GlasWerks® LED



### Refractor Post Tops

245L



247L



ARDL



AVPL2



### Full Cutoff Post Tops

247CL



AVPCL2



ARDCL



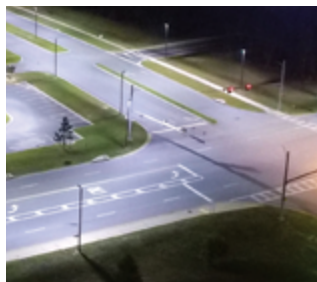




## Perimeter & Security



## We offer comprehensive solutions for all applications in your base



### Roadway

Good roadway lighting should assist motorists as they travel to their destinations safely and securely, even in high speed applications. Ideally the lighting should provide good vertical footcandles to highlight pedestrians or animals on the roadside. Lane closures due to frequently re-lamping and maintenance of street lighting that uses traditional light sources can be virtually eliminated by LED solutions.



### Area

LED is ideal for large areas such as parking lots, motor pools or training areas. It provides superior uniformity and color rendering that can improve the operations or even better enhance the security in these applications. Acuity Brands offers unique solutions that allow high design flexibility and maximum pole spacing through solutions with higher mounting heights and tilt features.



### Perimeter

Perimeter and security applications often benefit most from flood lighting products that can be aimed to fill a large area with uniform light, or illuminate building facades, security fences and walls. Utilizing LED and wireless controls such as monitoring & diagnostics can further enhance your base security, providing the peace of mind that comes with knowing your perimeter is properly illuminated.



### Residential

Properly lighting base housing environments requires a focus on both nighttime pedestrian activity and driver safety. Providing light for pedestrian visibility often needs to be balanced against concerns for light pollution, especially light trespass into residential windows that can disturb occupants. This is often combined with a desire to provide an aesthetically pleasing daytime form to enhance the visual streetscape.

## Efficient, sustainable and reliable solutions

### Predator LED & ACP LED

The Holophane Predator LED and AEL ACP LED provide the ultimate solution for flood applications such as perimeter and security lighting. Cutting edge optics and LED technology deliver optimal performance & efficiency.

#### The Predator & ACP LED Series offers:

- Solutions up to 33,000 lumens of crisp, white light
- Durable glass optics with multiple distributions
- Variety of mounting configurations including yoke and knuckle
- Enhanced security from reliable operation and durability



Efficient replacement solution for 150-1,000W HID



**62%** Energy Savings\*

**77%** Maintenance Savings\*

**62%** Reduction in CO<sub>2</sub> Emissions\*

Added savings up to 20% can be obtained with a ROAM controls energy and maintenance program.

Acuity Controls Solutions for Every Application



# Area Applications



## Best-in-class performance for parking lots

### Autobahn ATB0 & ATB2

Our AEL Autobahn ATB0 and ATB2 provide a rectilinear form factor that utilizes high performance discrete LEDs for optimal efficacy and uniformity in a variety of applications.

#### The Autobahn ATB0 & ATB2 offer:

- Solutions up to 31,000 lumens of crisp, white light
- Sleek rectilinear form factor
- Variety of distributions with unparalleled uniformity
- Distributions for both area and roadway applications



Efficient replacement solution for 70-400W HID



**60%** Energy Savings\*

**50%** Maintenance Savings\*

**60%** Reduction in CO<sub>2</sub> Emissions\*

Added savings up to 20% can be obtained with a ROAM controls energy and maintenance program.

## Industry-leading high mast solutions

### HMAO LED II

The second generation Holophane HMAO LED II provides a solution for motor pools, air bases and other large areas where the number of poles can be reduced by mounting at up to 150 foot mounting heights.

#### The HMAO LED II offers:

- Solutions up to 62,000 lumens of crisp, white light
- High efficiency - up to 125 LPW
- Industry leading prismatic glass optics
- High mast poles and lowering device solutions available



Efficient replacement solution for 400-1,000W HPS



**68%** Energy Savings\*

**77%** Maintenance Savings\*

**68%** Reduction in CO<sub>2</sub> Emissions\*

Added savings up to 20% can be obtained with a ROAM controls energy and maintenance program.



# Roadway Lighting



## Cobrahead replacement solutions for roadway

### Autobahn ATBS, ATBM & ATBL

Our AEL Autobahn family of luminaires provides cobrahead replacement solutions in traditional form factors and a variety of sizes including the ATBS, ATBM and ATBL.

#### The Autobahn ATBS, ATBM & ATBL offer:

- Solutions up to 31,000 lumens of crisp, white light
- Three sizes for a wide range of roadway applications
- Light weight and EPA with traditional cobrahead look
- Durable prismatic glass optics



Efficient replacement solution for 50-400W HPS



**60%** Energy Savings\*

**50%** Maintenance Savings\*

**60%** Reduction in CO<sub>2</sub> Emissions\*

Added savings up to 20% can be obtained with a ROAM controls energy and maintenance program.

## Flexibility for variety of application needs

### Mongoose LED

The Holophane Mongoose LED luminaire combines high performance with maximum design flexibility. Highly engineered prismatic glass optics provide optimal performance and durability.

#### The Mongoose LED offers:

- Solutions up to 36,000 lumens of crisp, white light
- Tenon, arm and architectural mounting configurations
- Optimal design flexibility with tilt feature for a variety of applications
- Removable power door and other install-friendly features



Efficient replacement solution for 175-1,000W HPS



**47%** Energy Savings\*

**77%** Maintenance Savings\*

**47%** Reduction in CO<sub>2</sub> Emissions\*

Added savings up to 20% can be obtained with a ROAM controls energy and maintenance program.



## Outdoor Residential



## Indoor Lighting



### Decorative LED for streets & walkways

#### Acorns, Lanterns and Pendants

Holophane and AEL brands can supply your base with a plethora of decorative luminaires for residential areas, ranging from prismatic glass acorns to colonial lanterns and even pendant mounted solutions.

#### Decorative LED luminaires offer:

- Improved aesthetic appeal from a variety of architectural styles
- Solutions up to 24,660 lumens of crisp, white light
- Maintenance-friendly features and easy installation
- Wide variety of performance packages and distributions including full cutoff solutions



Efficient replacement solution for 50-400W HPS



**60%** Energy Savings\*

**75%** Maintenance Savings\*

**60%** Reduction in CO<sub>2</sub> Emissions\*

Added savings up to 20% can be obtained with a ROAM controls energy and maintenance program.

### Efficient, durable indoor solutions

#### High Bay

Holophane offers a comprehensive line of energy-saving LED high bay solutions including the full family of Phuzion luminaires. This family provides reliable operation in hot or dirty applications requiring replacement of up to 1,000W HID incumbents.



#### Low Bay

The Holophane Bantam 2000 LED Series is the perfect fixture for a variety of heavy-duty and low-ceiling height applications. Typical applications for luminaires in the Bantam 2000 Series include mezzanines, parking garages, maintenance facilities and stairwells.



#### Emergency

Holophane's full line of code-compliant emergency products designed to meet the emergency lighting requirements of many applications within your base.



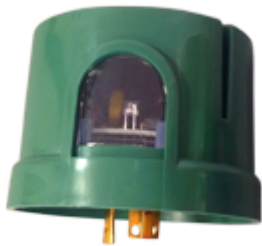


# Outdoor control solutions to enhance and improve your base operations



## The foundation of controls

Acuity Controls leads the way in development of controls technologies and establishing standards for the industry. Standards such as the Acuity Controls-designed 7-pin photocontrol receptacle ensure future-proofing of your luminaire so that additional features and capabilities can be enabled as they become available.



## Acuity Controls DTL® — Standalone dusk-to-dawn solutions

Recognized by the industry world-wide as a provider 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, foodlighting, 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.



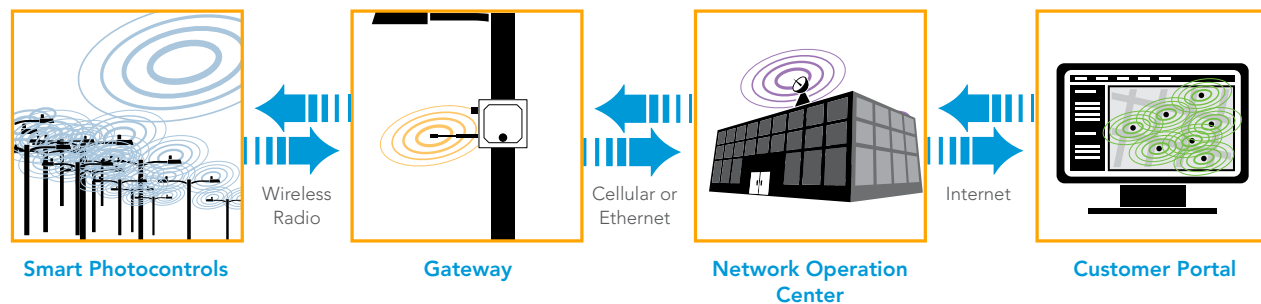
### DTL Connect — Wireless Remote

The DTL Connect Series™ photocontrol and remote empowers utilities to enable and disable difficult-to-access luminaires from the ground with the touch of a button. Built upon the robust, long-life design of the DLL Elite, the easy-to-retrofit DTL Connect Series photocontrol and remote offer long-life relay performance and superior surge protection.



## Acuity Controls ROAM® — Remote operations asset management

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



# Smart bases enhance the future of a successful, efficient and sustainable military

## Building smart bases: Beyond lighting control to the “Internet of Things”

Military bases will enjoy safe, reliable illumination provided by intelligent lighting systems. Integrated solutions provide advanced monitoring and control capabilities for longevity and reduced costs.

Our single integrated solution transforms energy-efficient LED lighting into a smart platform for data-driven applications such as personnel safety and security, parking management and location analytics.

The smart lighting network transforms LED luminaires into sensor-equipped smart devices capable of capturing data in near real-time, providing unprecedented insight and enabling a broad array of applications and services to enhance base operations and security.





## A+ Certified for smart lighting solutions that simply work

A+ Certified solutions from Acuity Brands help you quickly and confidently select and implement lighting systems for your base, both indoor or outdoor applications, that are both compatible and consistent. For lighting applications, A+ means verified consistent performance, visual appearance and system interoperability of all luminaires and controls within the certified solution. For you, it means confidence that all parts of the lighting system will work together and meet common Acuity Brands specifications. Go to [www.acuitybrands.com/aplus](http://www.acuitybrands.com/aplus) or contact your local Acuity Brands representative for more information.

### Combine A+ components for A+ certified solutions



### A few clients benefitting from our solutions...



- Fort Benning
- Fort Stewart
- Fort Carson
- Fort Hood
- Fort Bliss
- Ventura Naval Base
- Minot AFB
- MacDill AFB
- Warner Robbins AFB
- Vandenberg AFB
- Malmstrom AFB
- Wright Patterson AFB

**View case studies & video at [AcuityBrands.com/Infrastructure](http://AcuityBrands.com/Infrastructure)**

AcuityControls

AEL American Electric Lighting

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LEADER IN LIGHTING SOLUTIONS

eldoLED

RELOC  
WIRING SOLUTIONS

SUNOPTICS

**AcuityBrands**

*Expanding the boundaries of lighting™*

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