



Rethink Parking

INTEGRATED LIGHTING AND CONTROL STRATEGIES FOR PARKING FACILITIES



Upgrade parking luminaires and controls? **Absolutely. Here are 3 reasons why:**

INTEGRATED LIGHTING AND CONTROL STRATEGIES FOR PARKING FACILITIES



Attractive, efficient Acuity Brands® LED luminaires

1 **Improved illumination creates** a more pleasant experience for occupants and enhances their sense of safety.

A drab, inconsistent atmosphere becomes a clean, inviting one with the simple addition of luminaires and controls from Acuity Brands.



Old technology: High-pressure sodium



2 **It makes economic sense.**
The right combination of luminaire and control choices will result in significant cost savings.

Annual Savings
for an example
300-fixture garage
using metal halide fixtures



\$45,300 - \$54,900*
= 70-85% expected
cost reduction

*Figure range is based on the conversion from 175W lamp metal halide luminaires operating 24/7 to 74W LEDs with a networked wireless control system (highest savings), dimming occupancy sensors (moderate savings), or without additional controls (lowest savings). Costs assume \$0.10/kWh utility rate, \$40 per metal halide lamp change and typical energy reduction from occupancy sensing and advanced wireless control (where applicable).

3 **Acuity Brands is the right partner** to help find a suitable lighting strategy for your parking facilities. We offer a wide range of luminaires and controls, designed and built to work together seamlessly as an integrated system.



Luminaire offerings include both LED and traditional light sources to cover the entire parking facility, from pedestrian walkways through to the top deck. Control options run the gamut from fully wireless networked systems, to luminaires with integrated sensing capabilities or intelligent relay panels. **Visit www.acuitybrands.com to learn more.**



The logo for Acuity Brands, featuring a stylized white 'A' icon followed by the text 'AcuityBrands' in a white sans-serif font.

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Occupants feel safer and more welcome.



LUMINAIRE + INTELLIGENT RELAY PANEL

www.acuitybrands.com/parking



INTEGRATED LIGHTING AND CONTROL STRATEGIES FOR PARKING FACILITIES

Immediately improve the occupant experience and energy efficiency of your facility with the simple solution of LED luminaires and an intelligent relay panel. Today's LED products offer a pleasing, brightly lit environment while delivering significant savings in energy and maintenance costs. Our relay panels let you control all of your garage lights from a single device. They're easy to program, so lights are on when you want them to be; off when you don't.

Immediate Operating Benefits

- 70% decrease in operating costs expected for a typical facility*
- Schedule, daylight, and override control of interior and exterior lighting circuits combined in a single panel
- Re-lamping maintenance costs substantially reduced

Immediate Occupant Benefits

- A vastly more pleasing environment for drivers and pedestrians
- Consistent quality of light and longer luminaire lifetime contribute to enhanced safety
- Studies show that well-lit parking areas rank highest among activities in addressing consumer safety and security concerns**

What does it mean for your bottom line?

	Annual Energy Cost*	Annual Lamp & Labor Cost*
175W Metal Halide	\$184 (per fixture)	\$32 (avg. per fixture)
74W LED	\$65 (per fixture)	\$0

Annual savings for an example 300-fixture garage

\$45,300
= 70% expected cost reduction

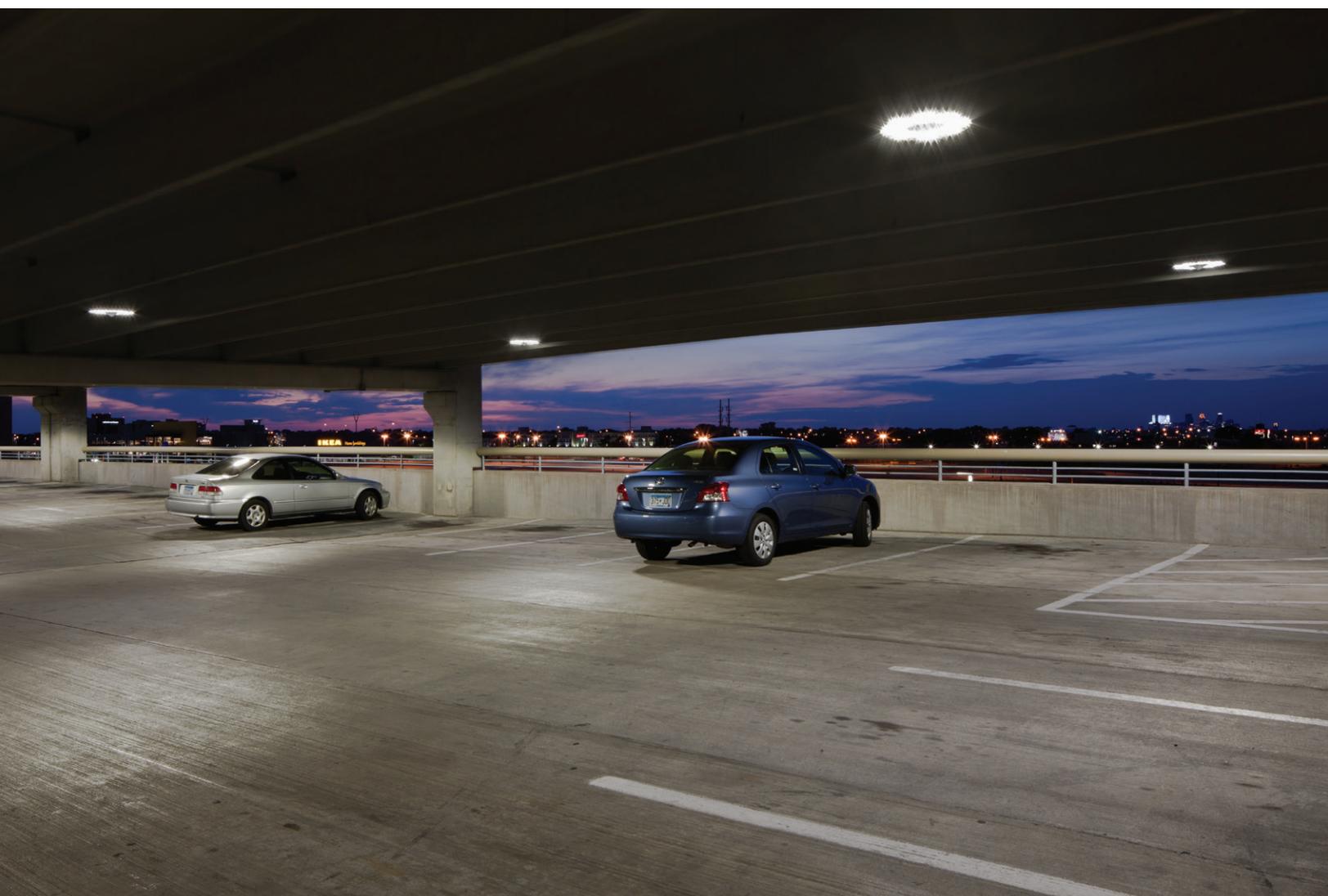
*Figures are based on the conversion from 175W lamp metal halide luminaires operating 24/7 to 74W LEDs. Costs assume \$0.10/kWh utility rate, \$40 per metal halide lamp change and 24 x 7 operation.

**"Safety and Security Concerns of Shopping Center Customers and the Effects of These Concerns on Shopping Behavior", James Overstreet, The Journal of Shopping Center Research, 1995



> Do drivers & pedestrians feel comfortable in your parking facility?

Acuity Brands can provide a solution that will help occupants feel safer, and therefore more likely to return.



Smarter.
Highly efficient.



LUMINAIRE + INTEGRATED SENSORS

www.acuitybrands.com/parking



INTEGRATED LIGHTING AND CONTROL STRATEGIES FOR PARKING FACILITIES

Take advantage of LED dimming capabilities to expand energy efficiency while maintaining a visually appealing environment. Why run at full power when no one is around? Integrated sensors dim the luminaires during unoccupied periods and return light to undimmed levels when motion is detected. Occupants feel safe while fixtures are saving energy because the light level changes are subtle and gradual, and vacant areas are still clearly visible when dimmed.

Immediate Operating Benefits

- 79% decrease in operating costs expected for a typical facility*
- Supports CA Title 24 2013 and ASHRAE 90.1 2010 energy codes
- Motion-sensing technology dims luminaires when areas are unoccupied
- Can be configured to turn off when ample daylight is sensed

Immediate Occupant Benefits

- A vastly more pleasing environment for drivers and pedestrians
- Consistent quality of light and longer luminaire lifetime contribute to enhanced safety
- Studies show that well-lighted parking areas rank highest among activities in addressing consumer safety and security concerns**

What does it mean for your bottom line?

	Annual Energy Cost*	Annual Lamp & Labor Cost*
175W Metal Halide	\$184 (per fixture)	\$32 (avg. per fixture)
74W LED with Sensor	\$46 (per fixture)	\$0

Annual savings for an example 300-fixture garage

\$51,000
= 79% expected cost reduction

*Figures are based on the conversion from 175W lamp metal halide luminaires operating 24/7 to 74W LEDs with dimming occupancy sensors. Costs assume \$0.10/kWh utility rate, \$40 per metal halide lamp change and typical energy reduction from dimming during unoccupied periods.

**"Safety and Security Concerns of Shopping Center Customers and the Effects of These Concerns on Shopping Behavior", James Overstreet, The Journal of Shopping Center Research, 1995



Why run at full power if no one is around?

Integrated sensors save energy by slowly dimming the luminaire when the immediate area is unoccupied and brightening when needed. And occupants will barely notice. Respond to occupant needs when they are present — save energy when they're not.



Maximum control. Maximum savings.



LUMINAIRE + NETWORKED WIRELESS SYSTEM

www.acuitybrands.com/parking



INTEGRATED LIGHTING AND CONTROL STRATEGIES FOR PARKING FACILITIES

Maximize the potential of your LED investment and provide an enhanced controls experience with integrated wireless technology. When the luminaires are part of a networked controls system, they can be grouped to respond in unison to approaching pedestrians and managed with a powerful software interface. Acuity Brands® luminaires with Adura® wireless technology can connect to a wireless system of occupancy sensors, daylight sensors and software that provides total control and management.

Immediate Operating Benefits

- 85% decrease in operating costs expected for a typical facility*
- Supports CA Title 24 2013 and ASHRAE 90.1 2010 energy codes
- Create occupancy zones of fixtures and sensors that respond as a group
- Receive maintenance and occupancy alerts
- Tune system settings and light levels for the best performance
- Live monitoring and floor plan views from your tablet or office computer

Immediate Occupant Benefits

- A vastly more pleasing environment for drivers and pedestrians
- Consistent quality of light and longer luminaire lifetime contribute to enhanced safety
- Studies show that well-lighted parking areas rank highest among activities in addressing consumer safety and security concerns**

What does it mean for your bottom line?

	Annual Energy Cost*	Annual Lamp & Labor Cost*
175W Metal Halide	\$184 (per fixture)	\$32 (avg. per fixture)
74W LED with Networked Wireless Control	\$33 (per fixture)	\$0

Annual savings for an example 300-fixture garage

\$54,900
= 85% expected cost reduction

*Figures are based on the conversion from 175W lamp metal halide luminaires operating 24/7 to 74W LEDs with a networked wireless control system. Costs assume \$0.10/kWh utility rate, \$40 per metal halide lamp change and typical energy reduction from dimming and system tuning.

**"Safety and Security Concerns of Shopping Center Customers and the Effects of These Concerns on Shopping Behavior", James Overstreet, The Journal of Shopping Center Research, 1995



> Does your lighting deliver maximum results?

Acuity Brands wireless technology delivers a seamless, energy-saving customer experience. Get the most out of your LED lighting with the smartest capabilities. Monitor or reconfigure the system using a laptop or other smart device — from just about anywhere.

1

Create occupancy zones of fixtures and sensors that respond as a group ahead of an approaching driver or pedestrian.

2

Receive alerts if lights are out or people are in the garage after hours.

3

Override the lights to full with a key switch, contact closure input, or software interface.

4

View a live floor plan and energy dashboard of actual lighting and control system performance.



A comprehensive portfolio of lighting products for parking facilities.



LUMINAIRES

www.acuitybrands.com/parking

Acuity Brands offers a deep lighting portfolio of LED and traditional light sources to meet your needs. Our LED offerings deliver the benefits of improved light with lower energy and maintenance costs — whether needed for architectural, specification, or value conscious requirements. Shown here is a sampling of LED products that cover the entire parking facility, from the pedestrian walkways through to the top deck.

**D-Series LED
Parking Garage Luminaire**
LITHONIA LIGHTING®



VAP-LED
LITHONIA LIGHTING®



**4760 LED
HYDREL®**

Deck Lighting

Exterior



**D-Series LED
Wall Luminaire**
LITHONIA LIGHTING®

Gateway® Series
LITHONIA LIGHTING®



Hydrel 3100 Series
HYDREL®

Stairwell



STLED
LITHONIA LIGHTING®



WL
LITHONIA LIGHTING®

Top Deck



**CSX1-LED
Area Luminaire**
LITHONIA LIGHTING®



**D-Series LED
Area Luminaire**
LITHONIA LIGHTING®

**INTEGRATED LIGHTING AND CONTROL STRATEGIES
FOR PARKING FACILITIES**

AcuityBrands.
Expanding the boundaries of lighting™

LED plus controls equals a whole new level of efficiency.



CONTROL STRATEGIES

www.acuitybrands.com/parking

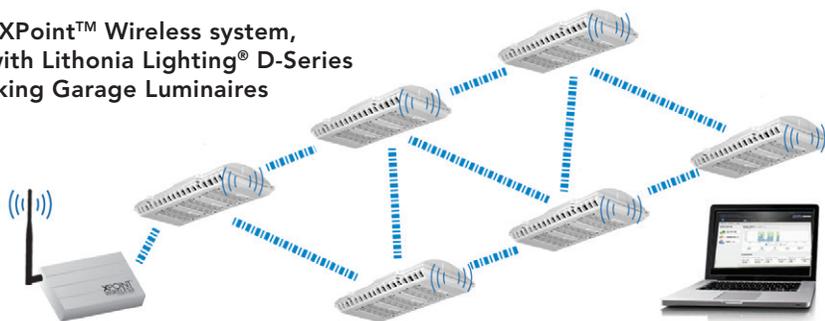
Acuity Brands offers a complete solution — parking garage lighting and three different strategies to control it according to your needs. Want the highest level of control and smartest system capabilities? We've got it with wireless networking capability built into our fixtures.

Want smart savings without the software or system capabilities? You can have it with integrated sensing available in deck, roof, stairwell, wall and even bollard luminaires.

Want simple and basic control of your lighting circuits? Our intelligent relay panels make scheduling and daylight-control programming a breeze.

What's more, Acuity Brands engineers, manufactures and warrants all parts of the solution: luminaires, relay panels, sensors, wireless nodes and monitoring software that are designed to work together. Our goal is to make your ownership experience, from installation to operation, a seamless one.

LC&D™ XPoint™ Wireless system, shown with Lithonia Lighting® D-Series LED Parking Garage Luminaires



Networked Wireless System

- Deepest Cost Savings – 85% expected cost reduction
- Seamless Occupancy Zones
- Fixture Status and Monitoring
- Full System Tuning
- Supports CA Title 24 2013 and ASHRAE 90.1 2010 energy codes



Lithonia Lighting® D-Series LED Parking Garage Luminaire with Integrated Sensor

Fixture Integrated Sensor

- Deeper Cost Savings – 79% expected cost reduction
- Discrete Occupancy Dimming
- Daylight Control at Fixture
- Supports CA Title 24 2013 and ASHRAE 90.1 2010 energy codes



LC&D™ Blue Box™ LT Lighting Relay Panel

Intelligent Relay Panel

- Deep Cost Savings – 70% expected cost reduction
- Schedule, daylight, and override control in a single device
- Control of interior and exterior lighting circuits
- Digital interface is easy to program and operate