nLIGHT®

Outdoor LED Luminaires with Embedded Wireless Controls

The **Next** New Normal

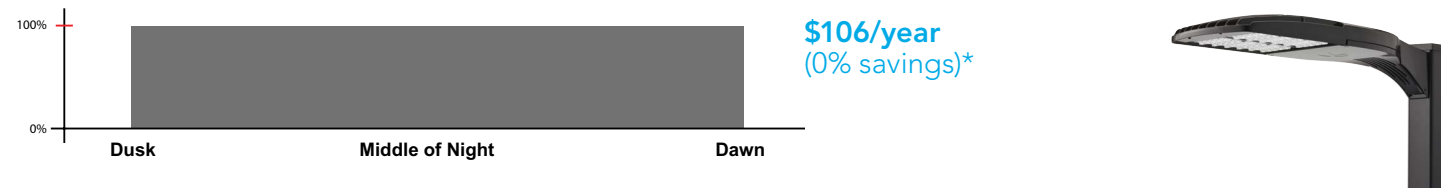# Outdoor LED Luminaires with Embedded Wireless Controls
The Next New Normal

The long life and substantial energy savings provided by today's LED luminaires have transformed the marketplace over the last few years, making them the "new normal" for both new construction and renovation projects. The "next new normal" comes in the form of LED outdoor luminaires with embedded wireless networked controls.

Energy Savings

While today's LED luminaires can provide energy savings of 70-85% when replacing HID luminaires, the low occupancy rates of outdoor spaces (especially in the late-night hours) provide a substantial opportunity to save even more. By investing as little as 15% more now, you can achieve over 50% energy savings over the expected 20-year lifespan of LED luminaires.
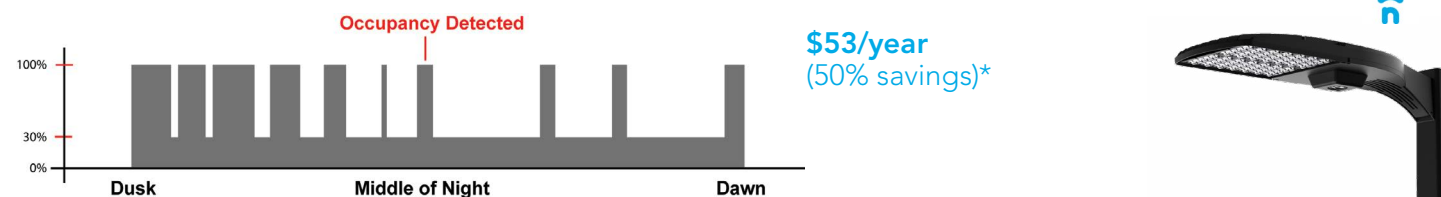
No Controls – A Missed Opportunity
LED luminaires at 100% from dusk-to-dawn, regardless of occupancy.
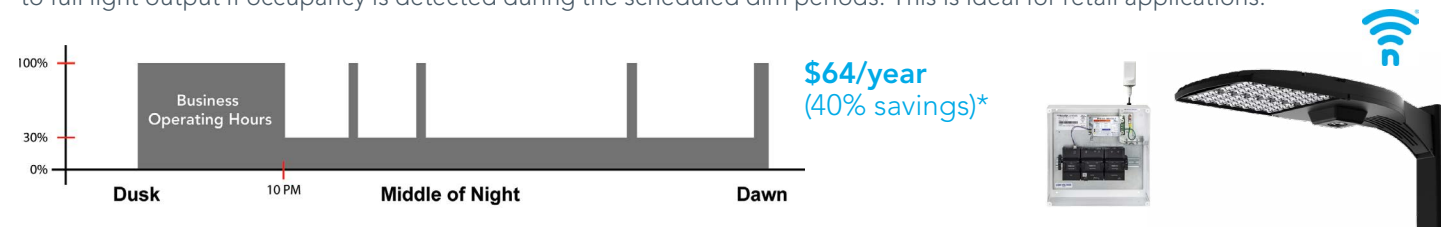
$106/year
(0% savings)*

Non-Occupancy Dimming
Outdoor LED luminaires with embedded nLight® AIR wireless controls dim to a specified level when the space is unoccupied, saving substantial energy while providing sufficient illumination for safety and security. Integral motion sensors bring the luminaires to 100% output when occupancy is detected. This is ideal for the majority of commercial applications.

$53/year
(50% savings)*

Scheduled Dimming with Motion Sensor Over-ride
Outdoor LED luminaires with embedded nLight Air wireless controls are scheduled to be at 100% during operating hours (regardless of occupancy) and dimming when the business is closed. Motion sensor over-ride brings the luminaires to full light output if occupancy is detected during the scheduled dim periods. This is ideal for retail applications.

$64/year
(40% savings)*

*Figures are based on nighttime use of a 241W DSX1 LED area luminaire at a $0.10/kWh utility rate.

Delivering More Than Just Energy Savings

The substantial energy savings coupled with the low initial cost of nLight® AIR embedded wireless networked controls results in a payback of less than two years! But it goes beyond just energy savings, with wirelessly networked outdoor LED luminaires providing additional benefits now, and in the future.

- The controls are embedded in the luminaire, so they are installed like a normal luminaire. No additional wiring required!
- Light levels and sensor settings can be adjusted from the ground using a smartphone and the free CL*AIR*ITY™ Pro app. This allows the lighting to be "tuned" to the specific needs of the site.
- The luminaires can be wirelessly "grouped" enabling all the luminaires in a group to respond to a single motion sensor detection event.
- When coupled with an nLight ECLYPSE® and free SensorView software, your feature-set expands to include time-based schedules, integrated indoor and outdoor site control, and further BMS integration through BACnet protocols.
- No ongoing fees in the form of licensing or cloud-based services. The CL*AIR*ITY Pro app and SensorView software are free.

Writing the Specification is Easy

Specifying luminaires with wireless networked controls is easy. Get the features that you want while avoiding paying for features that bring little value. Simply adding the language listed below to your specifications will ensure you get energy savings, while assisting in achieving code compliance.

1. **Ensure that the technology is embedded in the luminaires for ease of installation and aesthetics:**

   LED luminaires shall have embedded wireless networked controls that do not require additional wiring in the field.

2. **Ensure that the luminaires can be tuned to the needs of the site:**

   LED luminaires shall have embedded wireless networked controls that can be commissioned from the ground without the need for dedicated equipment.

3. **Ensure that energy savings is achieved, while providing safety and security:**

   LED luminaires shall have embedded wireless networked controls that have integral photocells that provide dusk to dawn operation without additional equipment.

   LED luminaires shall have embedded wireless networked controls that have motion sensors that dim the luminaires to 30% (or other light level) during periods of non-occupancy.

   LED luminaires shall have embedded wireless networked controls that can be wirelessly grouped such that all luminaires go to 100% when there is a single detection event.

4. **Get scheduled dimming with motion sensor over-ride (optional)**

   Wireless networked control system shall be programmed such that the luminaires are on at 100% during building operating hours, and dim to 30% (or other level) during non-operating hours. Luminaires to go to 100% if motion is detected during dimmed periods.

Note: Contact your local lighting agent for more information on nLIGHT enabled fixtures.

![nLIGHT logo]

nLight® AIR Enabled Outdoor Luminaires

nLight AIR is available in the best-selling Lithonia Lighting® outdoor products

D-Series Area Luminaires

RSX LED Area Luminaires

VCPG LED Parking Garage Luminaires

WST LED Wall Luminaire

Easy Start-Up

Wirelessly group devices and customize control settings in minutes with the free CL*AIR*ITY™ Pro mobile-app. Available for both Apple® and Android™ devices.

System-Wide Networked Platform

nLight is a networked controls system that employs both wired and wireless technologies to connect office, warehousing, manufacturing, parking garage and parking lot lighting on a single platform. The nLight ECLYPSE® is the single device that integrates wired and wireless nLight networks. The entire site can be managed remotely using free SensorView software.

Contact your local lighting agent for more information on outdoor LED luminaires with embedded nLight controls.

AcuityBrands.