nLight® AIR

Wireless Lighting
Controls Made Easy!

What is nLight AIR?

nLight® AIR wireless lighting controls are a smart solution for simplifying installation and aiding in energy code compliance.

With a full portfolio of control and network devices, nLight AIR helps reduce the total install time with fewer devices, no new wires, and the CL*AIR*ITY™ Pro mobile app, which streamlines start-ups.

Building managers benefit from an nLight AIR system too. Whether it's the easy-to-use software, simple energy metering, robust five-tier security, or connection to edge and cloud-based applications, owning an nLight AIR system is easy too!

nLight AIR Makes Controls Easy

- Easy to design, install, commission, and own
- Scalable from small to large and to outdoor
- Connects to other building management systems

Features and Benefits

Features	Benefits
900MHz wireless communication frequency	Easily penetrates typical obstructions found in commercial buildings while having the power to connect up to 750 nLight AIR devices in a large space with a single controller
Embedded sensors	Simplify design and installation by embedding sensors directly into a wide variety* of indoor and outdoor luminaires. No new wires or complicated layouts
CL*AIR*ITY Pro mobile application configuration	Makes configuration easy, no specialized devices or software to learn
Wireless adapter	Enables nLight wired and wireless devices to operate on one platform and utilize one suite of software applications, BACnet™, and cloud-based applications
IP66 rated devices	For indoor and outdoor use
Five-tier security architecture	Delivers peace of mind for building owners and occupants

*For more information on NLIGHT enabled fixtures, please contact your local lighting representative.

Security made Easy

nLight AIR wireless controls feature a state-of-the-art security architecture, designed to help IT departments maintain the integrity of their systems so building owners, operators, and occupants can rest easy.

- Does not have to be on the LAN

- Uses 900MHz communication not WiFi

- User authentication means only those CL*AIR*ITY Pro users who have been granted access to the site can make changes

- Stores information on Microsoft® Azure® cloud

Robust 5-Tier Security

Limited Anonymity
Communication link does not disclose identity of the devices communicating.

Message Confidentiality
Devices communicate securely using encryption. The communication cannot be monitored (sniffed) by untrusted hosts.

Message Authentication
Confirms that the message came from the valid device (its authenticity) and the integrity of the message is in tact. Provides protections against replay attacks.

Mutual Entity Authentication
Both communicating devices in a session to provide each other with assurance of their identity prior to exchanging data.

Application Data Encryption
Application data is encoded in such a way that only valid devices on a network can decrypt and use the data leveraging AES-128bit encryption.

Easily Scale Inside and Out

nLight® AIR wireless lighting controls can start as a smart, standalone network that simplifies installation and aids in energy code compliance. Easily scale nLight AIR wireless controls across an entire campus, including to outdoor spaces like parking garages and to high bay applications like warehouses and gymnasiums, where wireless controls help to reduce onsite labor costs.

Easy Retrofit Solutions

nLight AIR wireless sensors can embed directly into a wide variety of luminaires to reduce labor costs and install time because it requires no new wiring to install. And with simple mobile app-driven start-ups, contractors can configure a space from the ground without laptops or other specialized devices. So in a fraction of the time, you can easily retrofit a space with the energy-saving controls like occupancy and daylight harvesting.

Lithonia Lighting®
BLT Series* embedded with nLight AIR

nLight AIR
rPODB Wall Switch

Easily Scale from Inside to Outdoors

nLight AIR wireless controls can scale to outdoor spaces like parking lots with IP66-rated devices and by embedding in a variety of outdoor luminaires. And its 900MHz communication can penetrate hard surfaces so contractors can avoid drilling through concrete surfaces in parking garages and stairwells while still delivering energy-saving controls strategies like group response, occupancy, and automated daylighting.

Lithonia Lighting
D-Series LED Area Luminaire embedded with nLight AIR

Lithonia Lighting
VCPG LED Parking Garage Luminaire embedded with nLight AIR

Easily Install and Start-up

Reducing labor costs has never been easier than factory-installing nLight AIR wireless controls directly into LED high bays. Finish the job even faster by using the CL**AIR**ITY Pro mobile app to start-up and commission a job with both feet safely on the ground.

For regions that require advanced controls strategies like scheduling or demand response, nLight AIR easily connects to the nLight® ECLYPSE® to aid in energy code compliance while also increasing the functionality of the system beyond compliance.
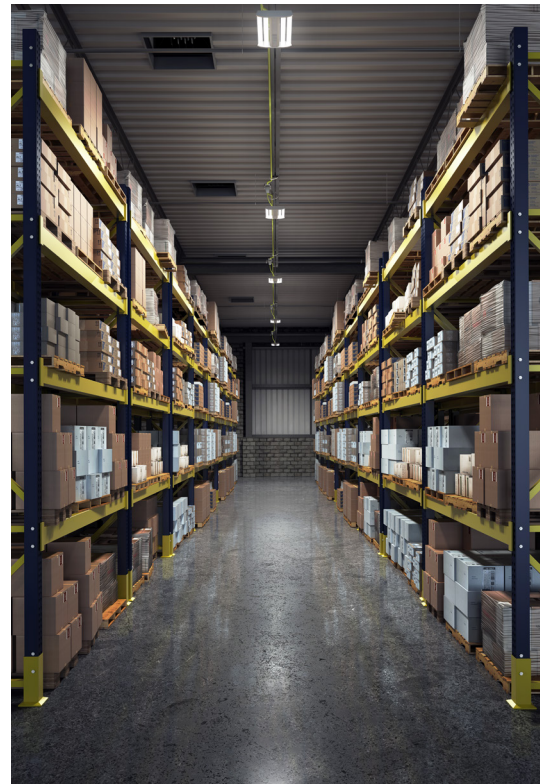
Lithonia Lighting
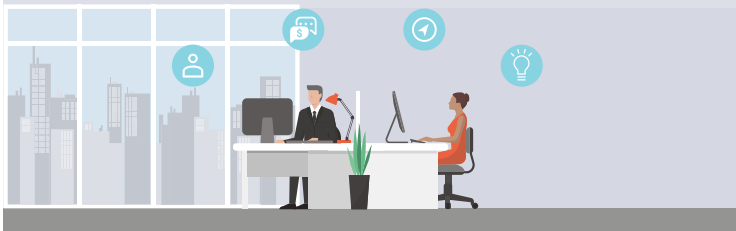I-BEAM® LED High Bay embedded with nLight AIR
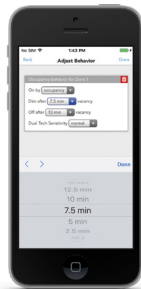
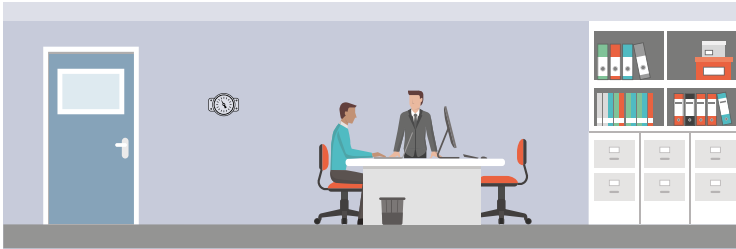CL**AIR**ITY **PRO**
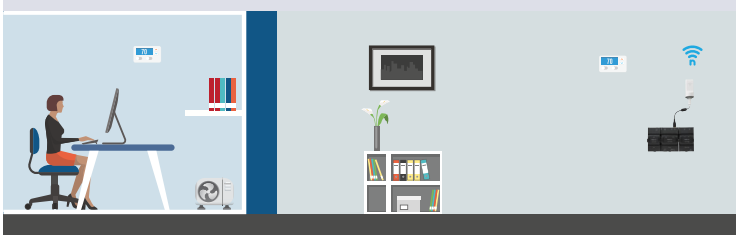Mobile App

nLight AIR Adapter
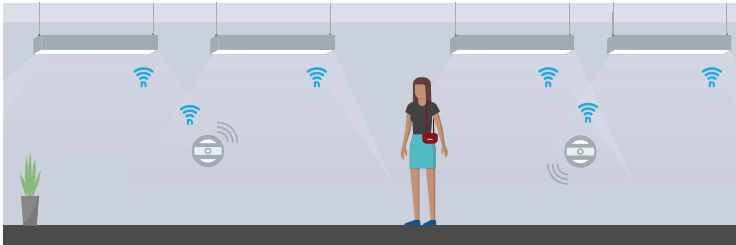and ECLYPSE

IoT Business Applications

Building Applications and Unified Building Visualization, Analytics, Energy Management

HVAC Controls & Building Management Systems

Embedded Sensors and Wireless Wall Switches

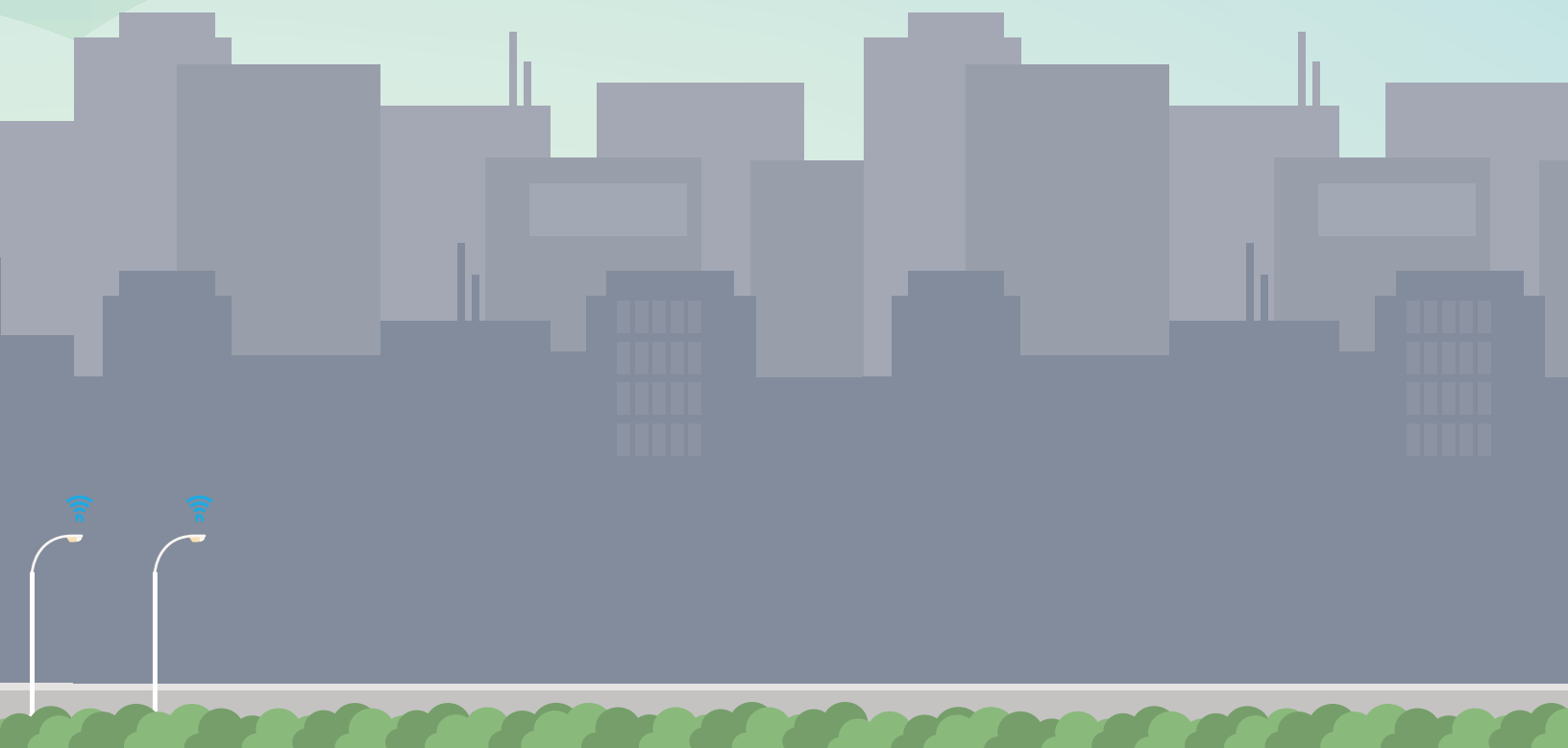**Indoor & Outdoor Lighting**

AcuityBrands.

Easy Integration with Complex Systems

As part of the nLight controls platform, an nLight AIR control system easily connects to the nLight ECLYPSE to unlock the power of this advanced controller. So now, a facility manager can simplify the management of their building while owners can build for the future.

The Power of ECLYPSE:

- Operate nLight wired and wireless devices as a single platform
- SensorView control software
- SiteView™ energy metering
- BACnet™ connectivity

- Space Utilization
- Embedded visualization
- IP connectivity
- Conditional logic engine

A+ Certified solutions from Acuity Brands help you quickly and confidently select and implement lighting systems, for indoor or outdoor applications, that are both compatible and consistent.

To learn more about nLight AIR wireless controls, please contact your local lighting professional or visit www.acuitybrands.com/nLightAIR