nLIGHT

Networked Lighting Controls

Infrastructure – Industrial – Outdoor

Lighting Controls

Lighting control strategies are put to work by private and public building owners and facility managers to ensure safety and drive efficiency to help address current challenges and ongoing pressures.

Value of Controls

Investing in systems that deliver money-saving strategies, like nLight® lighting controls system, can ease the strain of rising energy costs and the financial burden of switching to new LED technology and complying with increasingly stringent energy codes.

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Codes

Switching to LED technology, working with established leaders in code compliance, and implementing smart control strategies can ensure compliance with increasingly rigid energy codes.

Safety

Where people interact with heavy machinery, moving parts, and shelves stacked high, the necessity for safety is the primary concern. Lighting levels can be optimized for safety using control strategies to easily and quickly reconfigure lighting based on the needs of a space and at specific times of day to ensure those working in a space can do so safely.

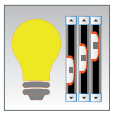
More

A system-wide solution tied to software can enable a facility manager to monitor real-time information, program, and control from a single computer freeing up valuable time. Implementing multi-levels of control strategies will ensure any solution goes even further, now and into the future.

Networked Lighting Controls

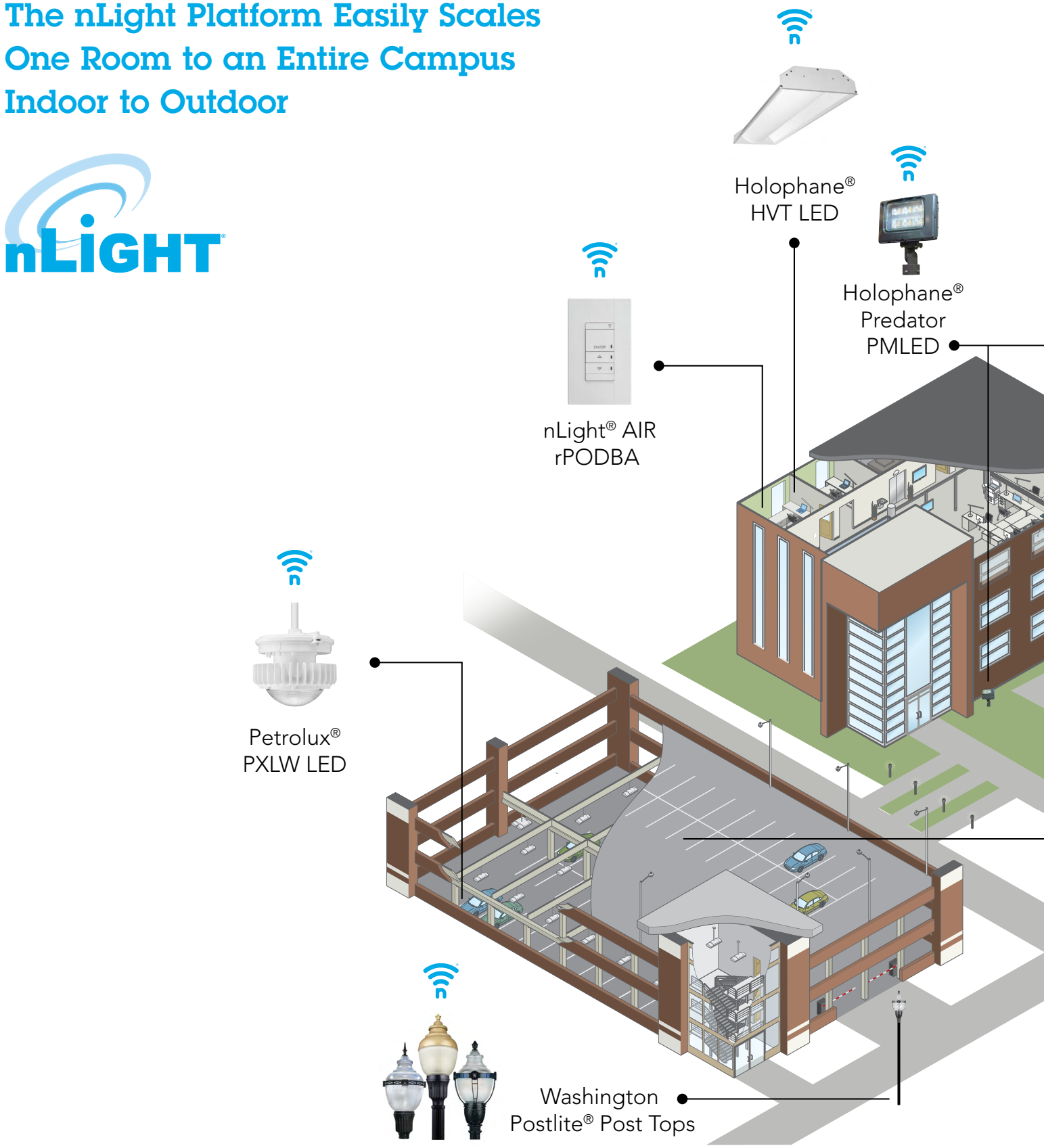
Lighting Controls Strategies

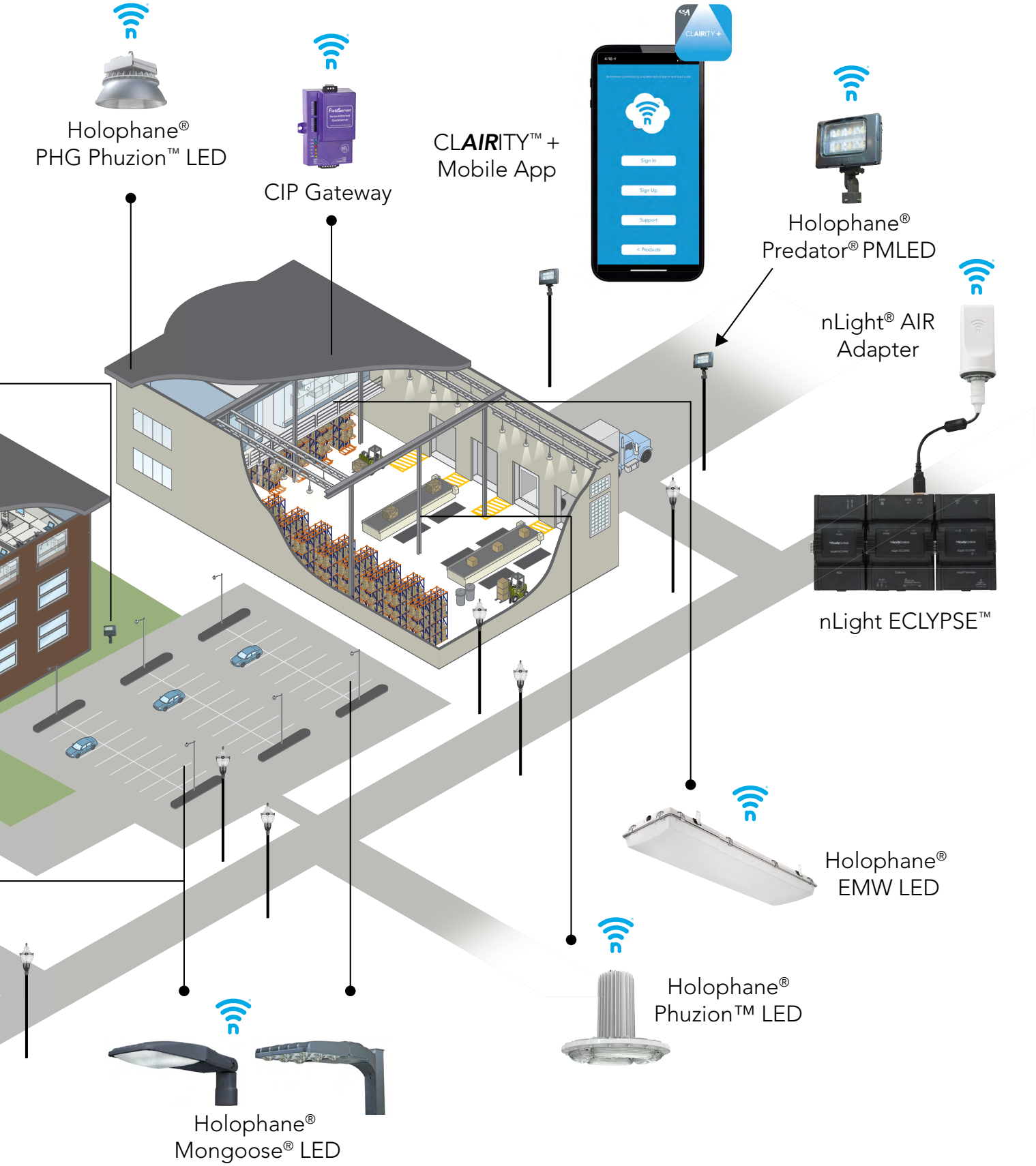
Lighting control strategies provide the ability to overcome the challenges of operating a facility. Implementing multiple levels of control strategies with innovative and practical solutions offered by nLight, will improve performance and save energy.
***Networked lighting controls have been found to save on average 49% when compared with traditional lighting controls.**

Lighting Control Strategies	Description
 Scheduling	Automated control based on time of day, or relative to sunrise and sunset. Temporary timers and blink warnings ensure easy occupant override.
 Occupancy Sensor	Turn off lights and setback HVAC in unoccupied areas. Share occupancy information with Building Management Systems (BMS) or security systems.
 Daylight Harvesting	Seamlessly dim or switch artificial lighting in response to available daylight.
 Task Tuning	Reduce eye strain and save additional energy by pre-setting light levels below 100% (full output).
 Occupant Controls	Intuitive controls allow adjustment of lighting or temperature to maximize occupant comfort and productivity.
 Load Shedding	Minimize peak demand charges and reduce real time energy usage by automatically limiting various building electrical loads.
 HVAC	Leverage lighting system scheduling, sensors, and wall stations to integrate HVAC control.
 Plug Load Control	Turn off plug loads based on time, occupancy or for load shedding.
 PC-Based Control	Remote control and monitoring of lighting and sensors simplifies building operations for facility managers and security staff.

*Energy Savings from Networked Lighting Control (NLC) Systems with and without LLLC, Northwest Energy Efficiency Alliance and Design Lights Consortion, 9/24/20.

The nLight Platform Easily Scales One Room to an Entire Campus Indoor to Outdoor




Holophane®
PHG Phuzion™ LED
CIP Gateway
CLAIRITY™ +
Mobile App
Holophane®
Predator® PMLED
nLight® AIR
Adapter
nLight ECLYPSE™
Holophane®
EMW LED
Holophane®
Phuzion™ LED
Holophane®
Mongoose® LED

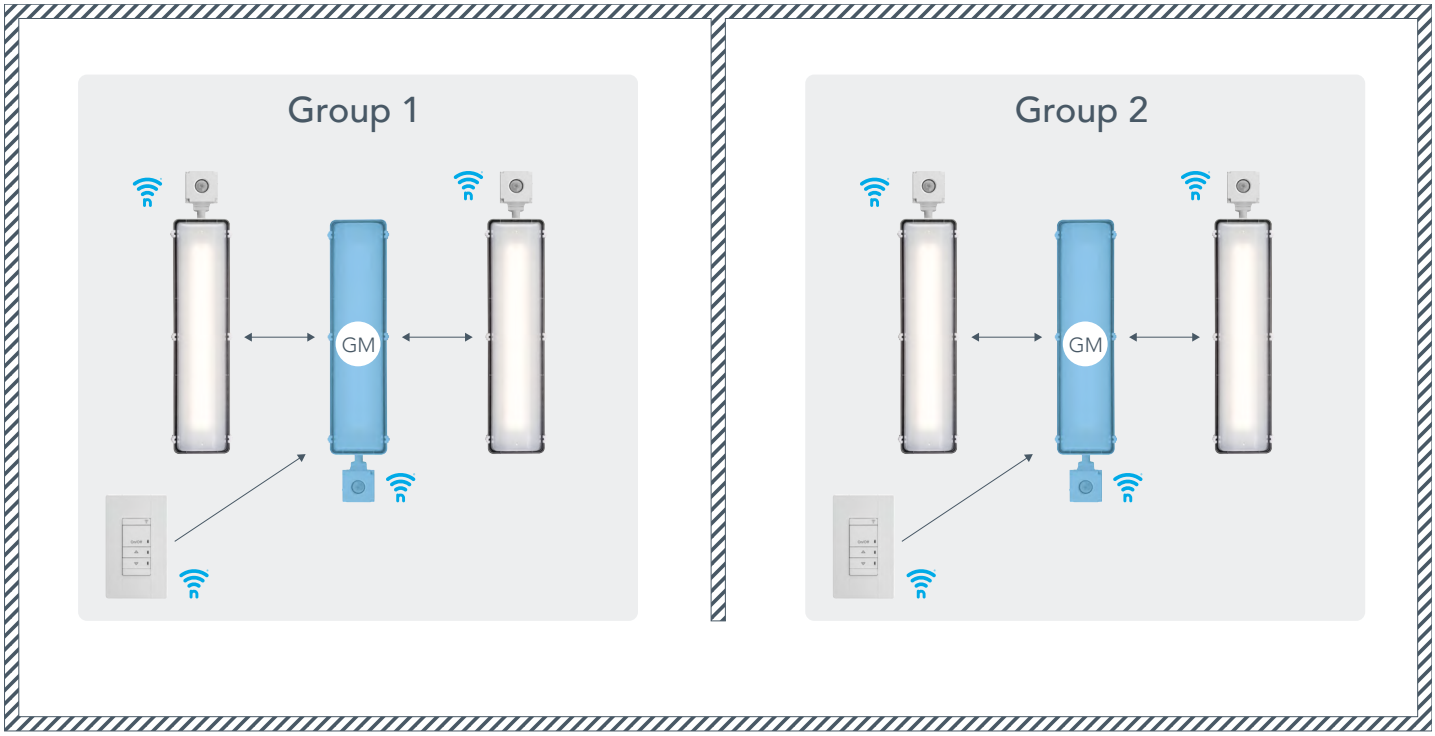
How nLight AIR Works

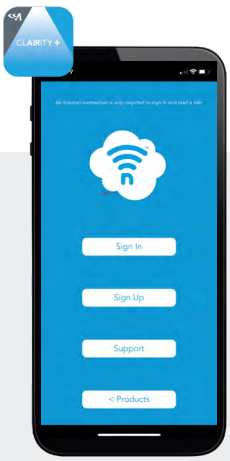
nLight AIR Stand-Alone System

One device in a group will be selected as the Group Monitor (GM) during commissioning. The GM acts as a repeater to communicate with other devices in the group. Messages are sent to the GM, and the GM then sends a message to all devices at the same time. Group 1 and Group 2 operate completely independent of one another.

Benefits

- No gateway/router device to install
- Meets all basic control strategies: Switch, occupancy, daylighting/photocell
- Easy to upgrade: Start simple, scale up when needed





CLAIRITY™+

The free CL**AIR**ITY+ mobile app allows validated end users (electrical contractors, controls technicians or facility maintenance professionals) to start up, configure and troubleshoot from a compatible smartphone or tablet. The CL**AIR**ITY+ mobile app is optimized for efficient onsite startup and maintenance activities. It allows you to easily modify the settings and operation of the fixtures, sensors and wall switches, aiding in meeting energy code requirements.

Available on the App Store

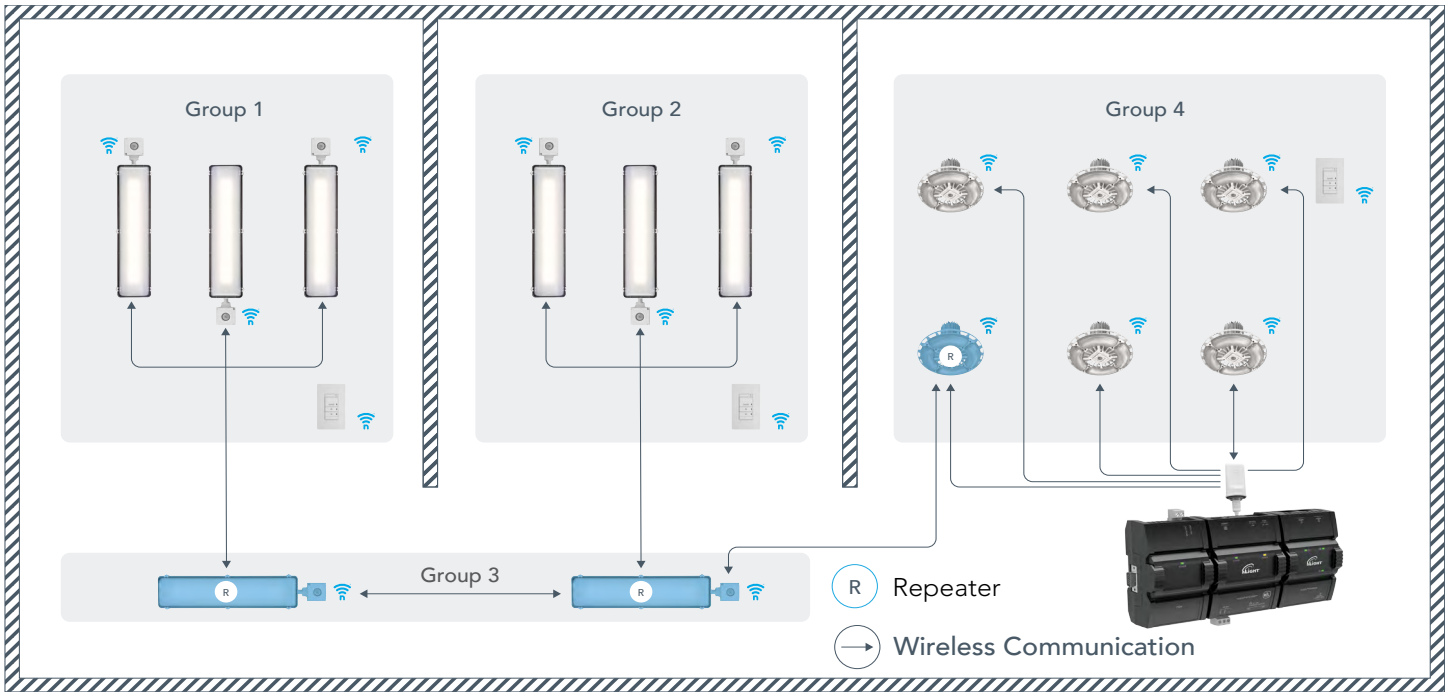
ANDROID APP ON Google play

nLight AIR Networked System

Each nLight AIR group is bound to the nLight ECLYPSE™, providing system-wide communication. Messages are sent to and from the ECLYPSE with all devices in range. For devices not in direct range, Autonomous Bridging Technology creates repeaters to carry messages to those devices out of range. Standalone communication with a group monitor still happens independent of system-wide communication.

Benefits

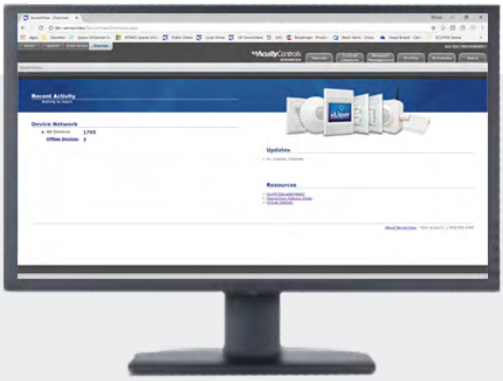
- System-wide configuration and control, including advanced scheduling and remote programming
- Building Management System (BMS) integration through common protocols (eg. BACnet)
- Wired or wireless integration, over-the-air firmware updates, energy monitoring and much more!



SensorView

Monitoring and Configuration Software

SensorView is an intuitive and easy-to-use, web-based suite of applications that gives authorized users the ability to remotely configure and monitor nLight® network luminaires and control devices. SensorView also can assist with system commissioning by indicating and reporting on sensor and controller settings in addition to displaying live device status.



Holophane nLight AIR Enabled Luminaires

Indoor & Industrial

Enclosed & Gasketed

EMS

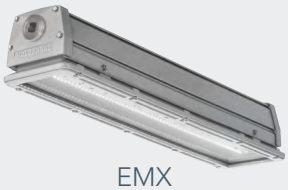
EMW

EVT4

Industrial Strip Lights

HZL

Industrial Low Bays



EMX

Commercial Troffers

HVT

Industrial Rounds

PHZL

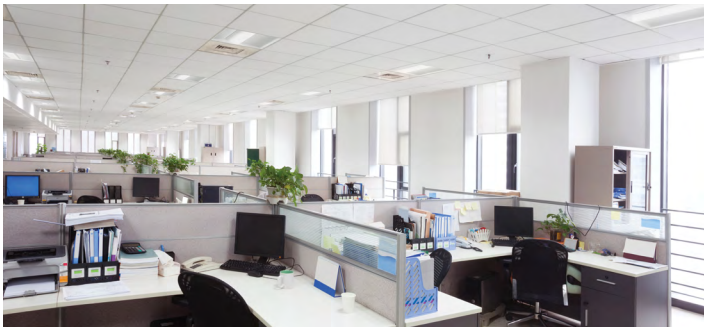
PHZ

PHS

PXHW

PHG

VL



Holophane nLight AIR Enabled Luminaires

Outdoor Area & Site

Post Tops

GranVille® Post Tops

Washington Post Tops

Prismasphere® &
Riverfront® Post Tops

Roadway/Area

LEDgend™

Mongoose® LEDs

Floodlights

ACP LEDs

75LED

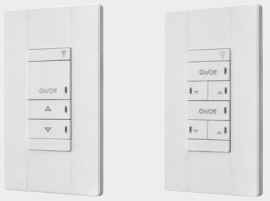
Predator® LEDs

nLight AIR Product Portfolio

nLight AIR has a full product portfolio of devices that complement our broad portfolio of enabled luminaires. Below are some of the more commonly used products that allow for a site-wide networked controls solution:

Switches

nLight AIR wall switches feature a contractor friendly screwless and tool-less wall plate, and various options including battery or line-powered, single pole or 2-pole, on/off and dimming, and preset scene capabilities.



rPODBA and rPODLA

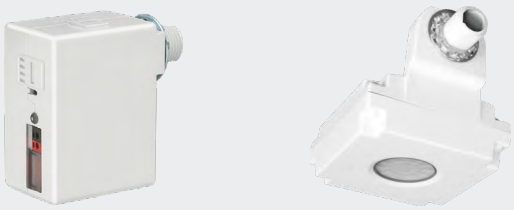
Sensors

nLight AIR standalone sensors add occupancy and photocell capability to a network of devices, with battery, line-powered, and IP rated devices with various lens options for a variety of mounting heights.

rCMS **rCMSB** **rSBOR**

Load Controllers

nLight AIR power packs and other load controllers provide on/off/dim control of fixtures and as well as other loads such as receptacles, providing a simple path for connecting any fixture to an nLight AIR system.



rPP20 **rSBOR**

rTLN - nLight AIR Twist-to-Lock Node

The rTLN is a NEMA twist-to-lock node for nLight AIR, providing an easy-to-install networked control device for outdoor luminaires. Designed for the nLight lighting controls platform, the rTLN reduces energy consumption, aids in code compliance, delivers advanced lighting control strategies, and enables monitoring for maintenance management.

Features

- **Supports NEMA receptacle applications:** Designed to provide 7-pin lighting control for any outdoor luminaire with a NEMA receptacle (industry standard) for new construction or retrofit applications.
- **Easy to Install:** Simple twist-lock installation and commissioning with a free mobile app.
- **Daylighting control out-of-the-box:** With an onboard photocell, the rTLN provides basic dusk-to-dawn control with no programming.
- **Grouped Response with No Additional Hardware:** No additional networking hardware to achieve grouped response for photocell and motion behaviors.
- **Scales Indoor to Outdoor - All on one networked solution:** Take nLight from indoor to outdoor, reducing lighting controls complexity with a single platform that scales easily.
- **More Capability with nLight ECLYPSE Addition:** Time-based control, side-wide management, real-time device status, and more by simply adding this system controller.
- **Energy Consumption Monitoring:** The rTLN features power monitoring standard, allowing users to monitor energy consumption and diagnose fixture failures through the SensorView software application.
- **Energy Reduction & Sustainability:** Achieve optimal light levels, while enabling significant reductions in energy consumption and actualizing a lower carbon footprint.

nLight® Lighting Controls

With more than 10 years of experience and an installed base of over 3 billion square feet, it's easy to see why nLight is the top specified lighting controls brand, and only continues to grow.

From standalone solutions to fully networked campus controls, indoors to outdoors, nLight provides a comprehensive, cost-effective lighting control solution for nearly any project, supported by advanced apps and software – all from the trusted name of Acuity Brands®.

Specification Tools

VISUAL

Visual Lighting is a comprehensive lighting analysis tool designed for demanding interior and exterior applications. Combining an advanced 3-D interface with the latest advances in radiosity theory, Visual Lighting provides an efficient and highly accurate analysis of complex architectural spaces. A unique approach has been taken in the design of the 3-D modeling environment, resulting in an intuitive and powerful design experience.

VISUAL CONTROLS

The Visual Controls software supports efficient design and specification with Acuity Controls. You can quickly perform a design take-off to bid a project and generate a comprehensive professional submittal.

To get access to the Visual Controls software, please contact your local lighting agent to get access today.

Holophane – Leader In Lighting Solutions

Holophane has a rich history and tradition of providing unparalleled lighting systems for public and private lighting applications. While one of the key characteristics of Holophane luminaires has been our glass reflector/refractor - every luminaire we offer is also made for longevity and performance.

HOLOPHANE®
LEADER IN LIGHTING SOLUTIONS

Working to attain the lighting objectives associated with the vast array of available outdoor applications, Holophane has developed luminaires with high performance optics that address required lighting levels, uniformity and environmental issues, while minimizing the number of poles and luminaires used to illuminate the space.

Our comprehensive product line allows Holophane to recommend ideal solutions effectively for all exterior lighting applications.

AEL American Electric Lighting®

cyclone

SUNOPTICS®

AcuityBrands.