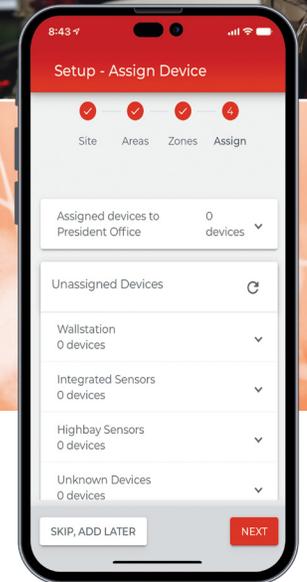


WaveLinx LITE

Office | Education | Industrial | Parking Garage

Simple. Secure. Scalable.



cooperlighting.com

WaveLinx LITE

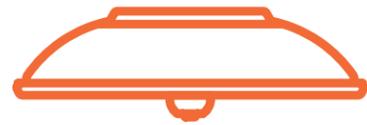
WaveLinx LITE is **SO SIMPLE** setup can be completed on-site with your own mobile device without an IT network or support.

Building upon known motion sensor solutions, the WaveLinx LITE solution eliminates all the hassles associated with a complex lighting controls solution and makes the commissioning process intuitive and flexible, giving more power to installers and building managers.

With integrated wireless occupancy and daylight sensors the system is not only ASHRAE, IECC and CA Title 24 code compliant for many applications, but also triggers additional utility incentives for smart controls.

Simple. Secure. Scalable.

Integrated sensors provide immediate out-of-the-box performance and can be configured as a system from a secure mobile application.



LIGHTING

Advanced LED fixtures



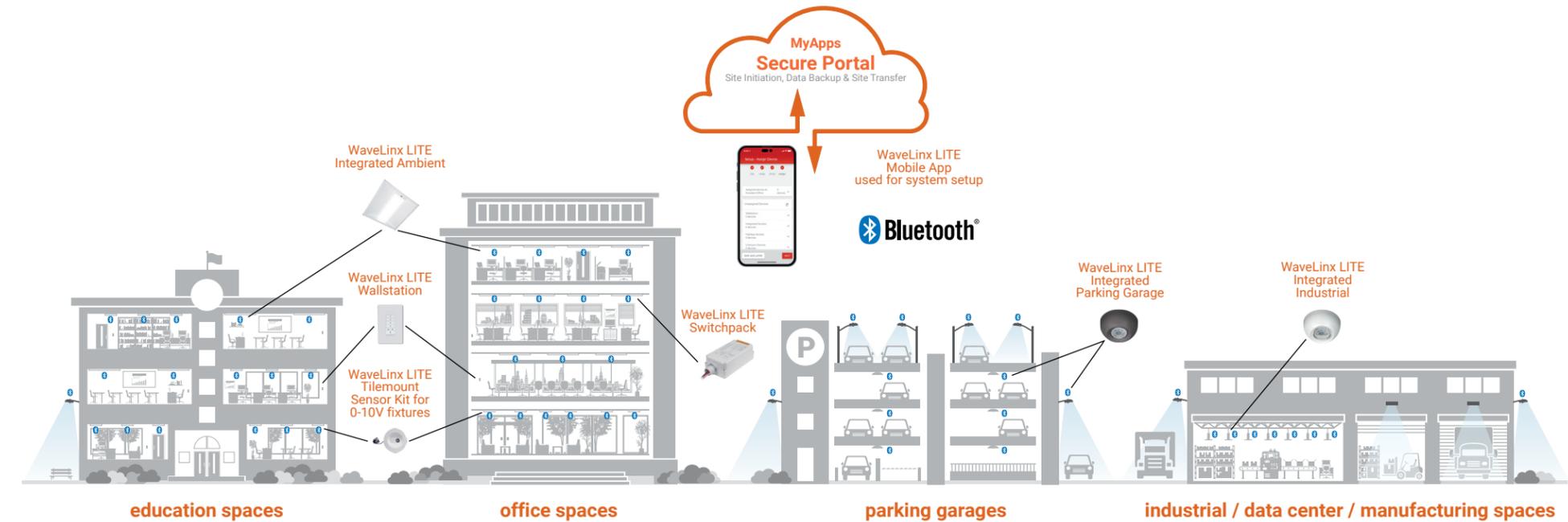
MOBILE APP

Intuitive project provisioning and configuration tool



SECURE PORTAL

Initiate new projects, transfer completed projects to building owners, and store backup data safely

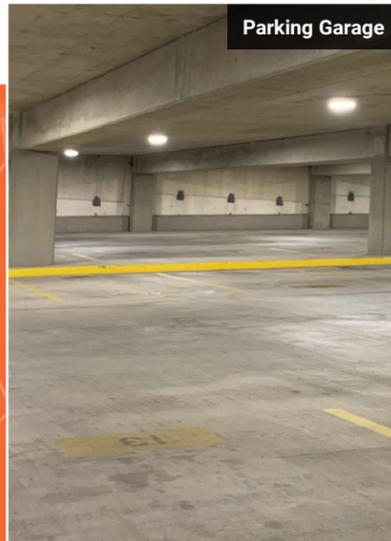


FLEXIBLE INSTALLATION... SIMPLIFIED

Complete retrofits with ease with integral sensors, eliminating the need for 0-10v or additional communication wires to be run between fixtures. No additional network wiring required, perfect for retrofits or tenant upfits.

Blends the simplicity of a standalone installation with the usability of a controlled system for an easily configured space with an exceptional occupant experience.

For standalone and controlled applications, WaveLinx LITE provides out-of-the-box functionality with no gateways required and factory startup is not needed.



WaveLinx LITE solves problems experienced with individually controlled and standalone fixtures

Standalone		Controlled WaveLinx LITE
✓	Out-of-the-box functionality	✓
✓	Closed loop daylighting	✓
✓	Occupancy detection	✓
x	Configurable control zones	✓
x	Occupancy groups	✓
x	Daylighting groups	✓
x	Programmable scenes	✓
By fixture	Customization	By group
IR remote	Customization device	Mobile app

Individual Performance



Standalone - office / education floor



Standalone - industrial floor



Standalone - parking garage floor

Intelligent Groups



WaveLinx LITE - office / education floor



WaveLinx LITE - industrial floor



WaveLinx LITE - parking garage floor

SCALABLE TECHNOLOGY

Standalone AND easily customized control?

WaveLinx LITE enabled luminaires can operate in standalone mode (individually controlled luminaires), in groups (areas and zones) and can even be upgraded to WaveLinx PRO enabled luminaires.*



Luminaire with standalone sensor



Standalone Spaces WaveLinx LITE



Standalone Spaces WaveLinx CAT



Networked Spaces WaveLinx PRO



Enterprise WaveLinx CORE

	Luminaire with standalone sensor	Standalone Spaces WaveLinx LITE	Standalone Spaces WaveLinx CAT	Networked Spaces WaveLinx PRO	Enterprise WaveLinx CORE
Occupancy	Yes	Yes	Yes	Yes	Yes
Daylighting	Yes	Yes	Yes	Yes	Yes
Wallstations	-	Yes	Yes	Yes	Yes
Gateways	-	-	-	1 WAC	300 WACs
Devices (MAX)	-	40 per Area (1120 per space)	40 per Area	200 per WAC2	32,500 per CORE Enterprise
Software	-	WaveLinx LITE Mobile App	WaveLinx CAT Mobile App	WaveLinx Mobile App	CORE
Areas	-	28 per Space	Unlimited	50 per WAC2	up to 3,000
Zones	-	16 per Area	16 per Area	16 per Area	up to 9,000
Scheduling	-	-	-	Local	Global
VividTune™	-	-	-	Yes	Yes
Plug-Load Control	-	Yes	Yes	Yes	Yes
Low-Voltage Power	-	-	Yes	Yes	Yes
Integration	-	-	-	-	BACnet, API
Dashboards	-	-	-	-	Energy, Occupancy
Configuration	-	Installer	Installer	Technician	Technician / IT

SCALABILITY



WaveLinx expands from a single standalone device up to Enterprise with 32,500 devices

*Note: WaveLinx LITE devices can be upgraded to WaveLinx PRO via an OTA firmware update. The OTA and system configuration can only be performed by Cooper Lighting Solutions specialists. WaveLinx Area Controller(s) would also need to be added to complete the solution.

Basic code compliance in a simple package

WaveLinx LITE offers useful out-of-the-box functionality and the ability to customize installations with a secure downloadable mobile application targeted at office, education, industrial and parking garage applications.

Control your own timeline

Securely configure and maintain your projects on your timeline.

Only pay for what you need

No gateways, servers, Integrators and IT involvement or paid technicians required for installation or setup.

Be ready for connected

WaveLinx LITE components will be upgradeable to be a part of the WaveLinx PRO Wireless System with connectivity to WaveLinx CORE.

Manage it all, from your mobile device

Configure your system conveniently through an intuitive mobile application.



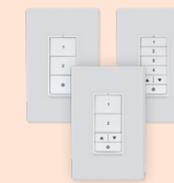
Simple, affordable, and secure... why settle for less?

Wireless. Code Compliant. Cost Effective.



Lighting Fixture with Integrated Sensor

Highly efficient LED fixtures



Wireless Wallstation

Pre-configured capabilities and fully customizable for each area



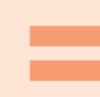
Dimming Switchpack

Used to control luminaires and plug loads



Mobile Application

Easily configure spaces from your own mobile device



Reduce Configuration Time & Cost by **20%**

for initial system set-up versus typical standalone installations

STAY SECURE

with ultimate peace of mind

With information security threats and fears on the rise, WaveLinx LITE is designed to keep your project and data on lock down with a secure cloud portal.



Preparation

(internet connection required)

- Create project sites from secure cloud portal
- Mobile app account receives a secure key to commission projects assigned to user



Configuration

- Mobile app used to configure project sites via Bluetooth on premises
- No internet connection required to configure or operate project site



Completion

(internet connection required)

- Site data is securely synced with the cloud portal for backup
- Cloud also used to securely transfer site ownership from installer to project owner



Cloud portal technology provides security to each site preventing unauthorized access



Physical barriers to entry

A smart devices paired with a digital key from a secure portal is required to access the system.



Customer security

NIST Cybersecurity Framework and industry best practices.

IEC62443-4-2 – Industrial Cybersecurity certification.



Network security

Multi-layered, built-in security controls and unique threat intelligence.



WaveLinx LITE is DLC Listed for interior applications - meeting the NLC5 Technical Requirements

Reduce re-configuration time and cost by

75%
or more

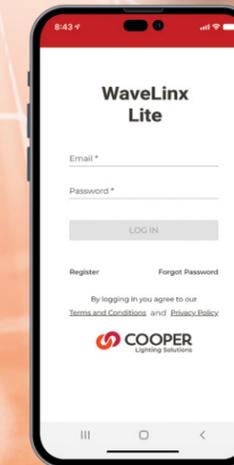
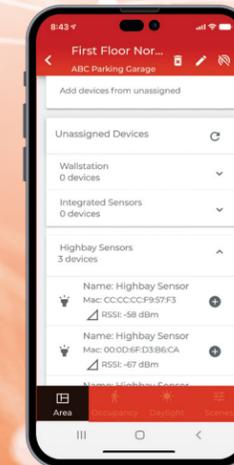
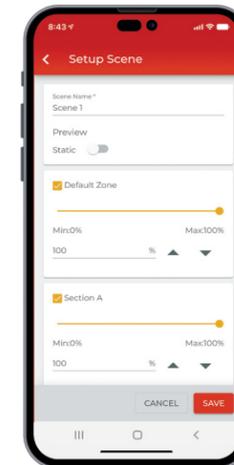
when compared to standalone installations



Automatic code compliance? Yes, it's true

No more waiting weeks for commissioning technicians, paying for expensive IT support, or purchasing unnecessary hardware. With WaveLinx LITE, you can finish the job more quickly, and move on to the next.

- Standalone operation that meets code and simple setup that exceeds expectations
- Wireless integrated sensors ensure maximum efficiency
- A simple mobile app allows building managers to easily adjust settings, even after the project has finished, with no need to go back into the wall
- Connected fixtures provide a platform for future scalability

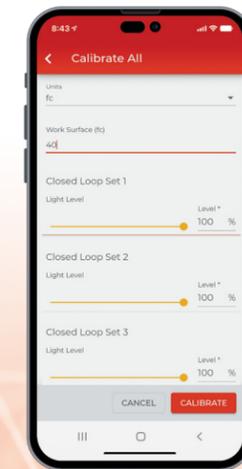
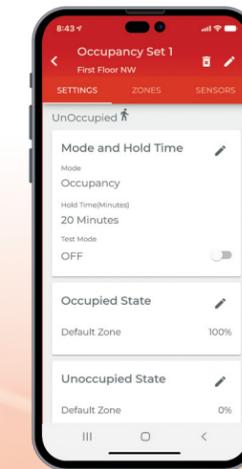
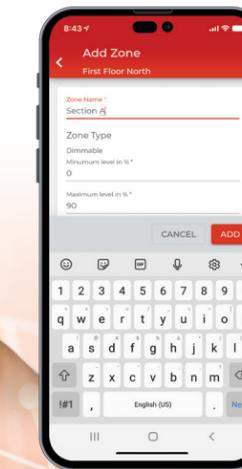


WaveLinx LITE mobile app features

- Network Security
- Manual Dimmer
- Occupancy Sensor
- Daylighting Control
- Manually Switched ON/OFF
- Task Tuning
- Lumen Maintenance Control
- Scenes

Intuitive code compliant set-up... at your fingertips

- You would set up your own lighting controls projects if they were this simple.
- Utilize a cloud portal to securely initiate projects, then add devices to areas and zones - even create custom scenes
 - Configure a standalone device or an entire space using a mesh network all from the WaveLinx LITE smart mobile app - no gateways, servers, or IT involvement required
 - Expedite configuration by identifying devices with wireless signal strength indication and eliminate repetitive configurations using customizable templates
 - Edit capabilities prevent data loss or overwritten data when provisioning with multiple users



The WaveLinx LITE App can be downloaded via the Apple Store® or Google Play and is an accessory to the WaveLinx LITE Wireless system.

Download on the App Store | GET IT ON Google Play

WaveLinx LITE System Design Steps

- 1 Installation**
 - WaveLinx LITE luminaires have out-of-the-box capabilities that may satisfy many applications
- 2 Project Site Preparation**
(internet connection required)
 - Download and register WaveLinx LITE mobile app
 - Watch training videos and learn hands-on with the app Demo Mode
 - Plan project per guidelines
 - Create an organization, buildings and spaces, with secure cloud portal from scratch or starting with a custom template
- 3 On-Site Configuration**
(Bluetooth connection required)
 - Scan using signal strength and provision devices by Area
 - Create zones, occupancy sets, optional daylight groups, and calibrate daylight harvesting (manual or automated)
 - Set occupancy or vacancy mode actions and hold times, configure scenes, set trim levels, etc.
- 4 Project Completion**
(internet connection required)
 - Backup all project site data in secure cloud portal
 - Sync areas and spaces to the cloud, combining all spaces into one building
 - Transfer site ownership from contractor to owner
- 5 Project Updates**
(internet connection required)
 - Easily re-configure spaces as requirements change
 - Secure system updates



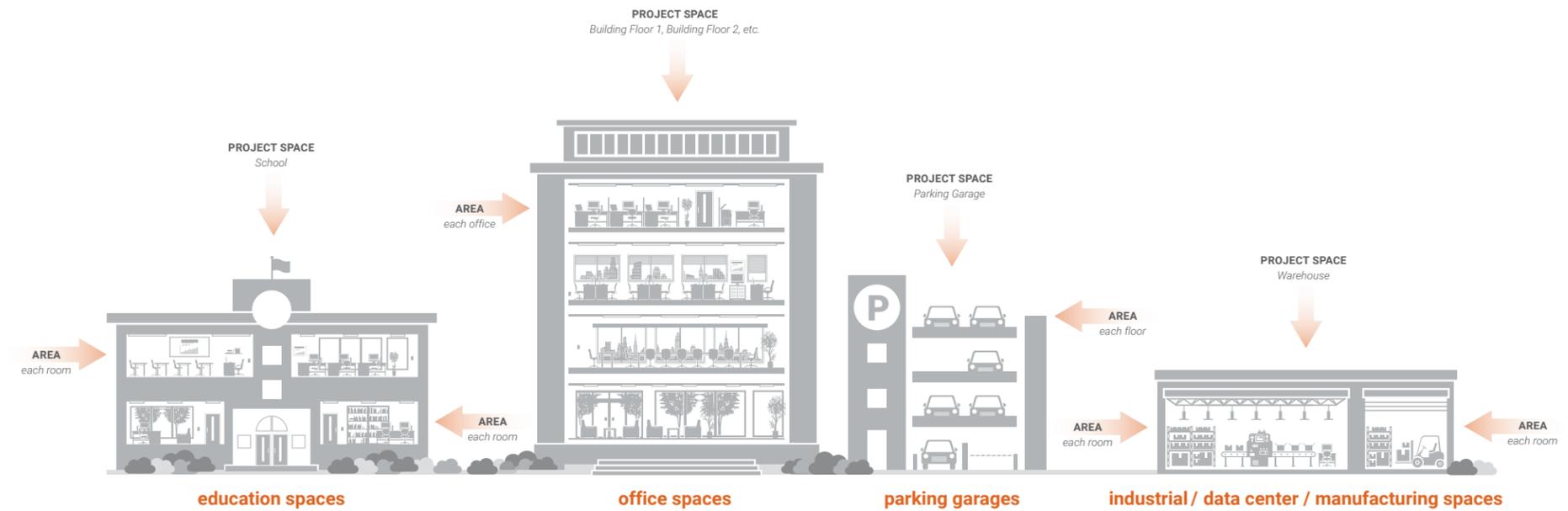
Project Contractor



Project Owner

**Transfer
Site Ownership
via Secure Portal**

WaveLinx LITE System Specifications



Design:

- Up to 28 areas per project site
- Up to 50 (best practice 40) devices per area
- Up to 16 zones (groups) per area
- Up to 6 occupancy sets per area
- Up to 7 scenes per area
- Up to 100ft (30m) LOS between devices
- Up to 5 hops between devices

Features:

- Integrated, closed-loop photocell for daylight harvesting
- Pre-configured, fully programmable wallstations
- Occupancy and Vacancy mode
- Occupancy hold time with Energy Saver
- High and low-end trim

Set-up:

- Admin users can add other users to join initial commissioning and backup for a building or space

WaveLinx LITE allows multiple user provisioning for speed of provisioning. Site transfer once provisioning is completed ensures security of the site is maintained throughout the life of the system.

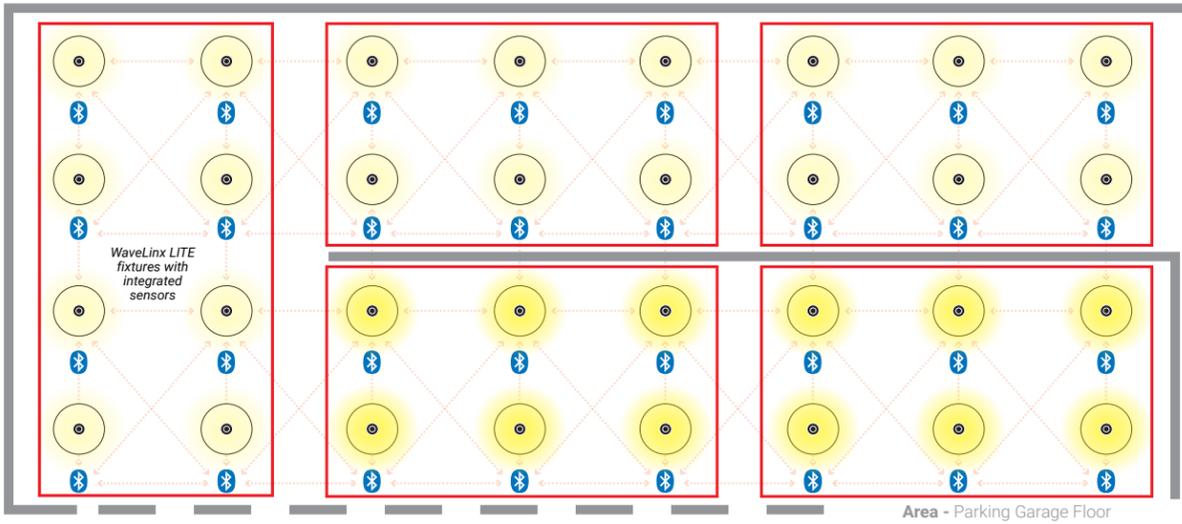
WaveLinx LITE can offer significant benefits

- 40% Less installation time
- 15% Lower installed cost
- 25-70% Energy savings
- CA T24, ASHRAE, and IECC code compliance
- Control your schedule by commissioning on YOUR time
- Maintain network integrity using the MyApps secure cloud portal for site creation



WaveLinx LITE Application: Parking Garage

- Site = 6 Floor Parking Deck
- 1 Area = 1 Floor (up to 28 per Site)
- 6 Occupancy Sets per Area
- Sensor



Industrial

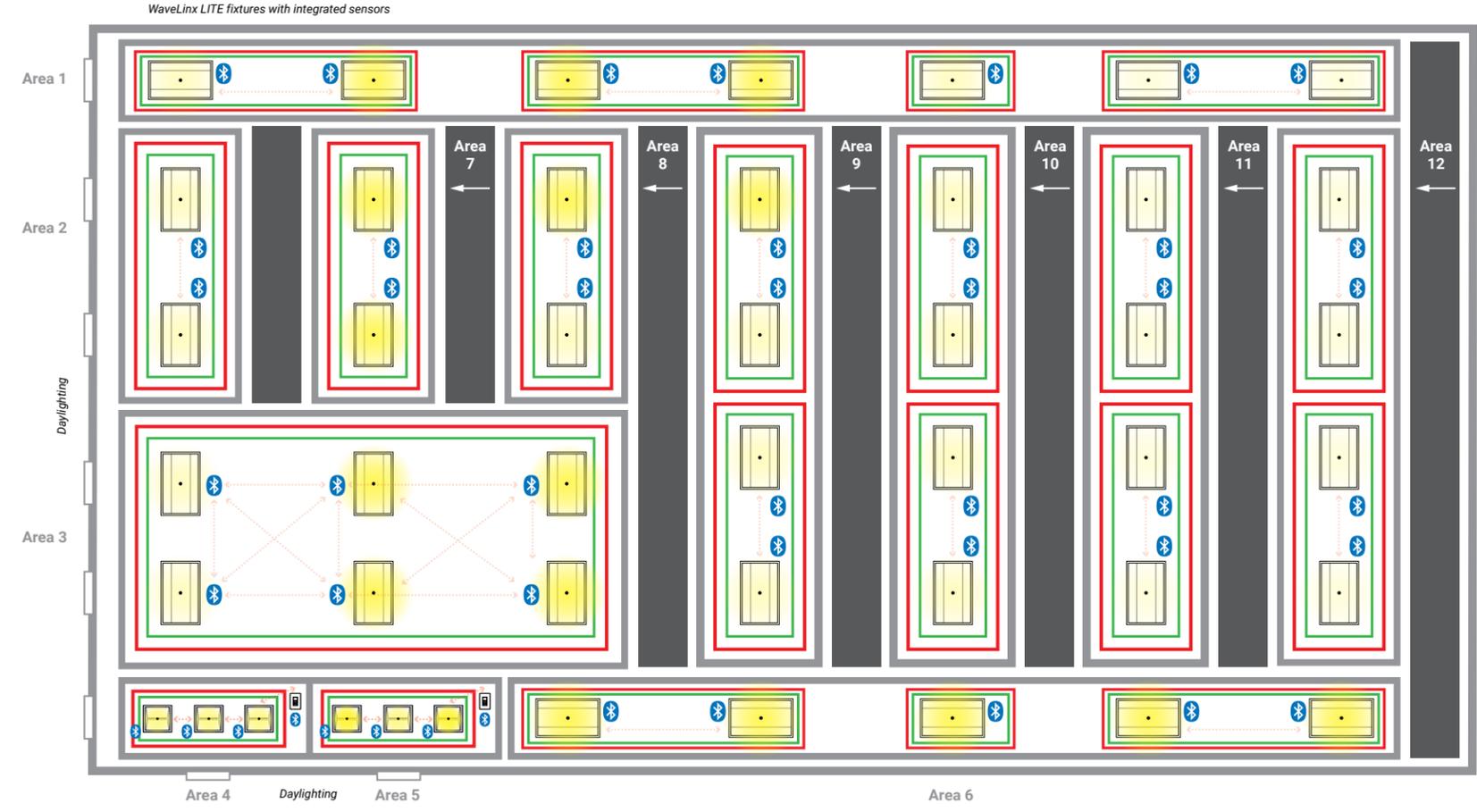
Single fixture to intelligent aisles and manufacturing controls in new and retrofit applications without complicated commissioning or IT involvement.

- Improve productivity and safety while reducing energy consumption
- Configure individual fixtures or create intelligent groups
- Configure through a secure mobile application without special wiring requirements
- Reconfigure spaces wirelessly as needs evolve



WaveLinx LITE Application: Industrial/Warehouse

- Site = Floor or Building (indoor)
- 1 Area = 1 Room (up to 28 per Site)
- 16 Control Zones per Area
- 6 Occupancy Sets per Area
- Integrated Sensor
- Tilemount Sensor



Parking Garage

Reduce labor, cost and installation time with WaveLinx LITE to get low cost compliance for both retrofits and new installation.

- In a typical 6 floor parking garage, the WaveLinx LITE system offers significant benefits:
- Improve safety and maintenance
 - Reduce installation time with wireless controls by 40%
 - Utilize lower cost labor rates for setup

Office and Education

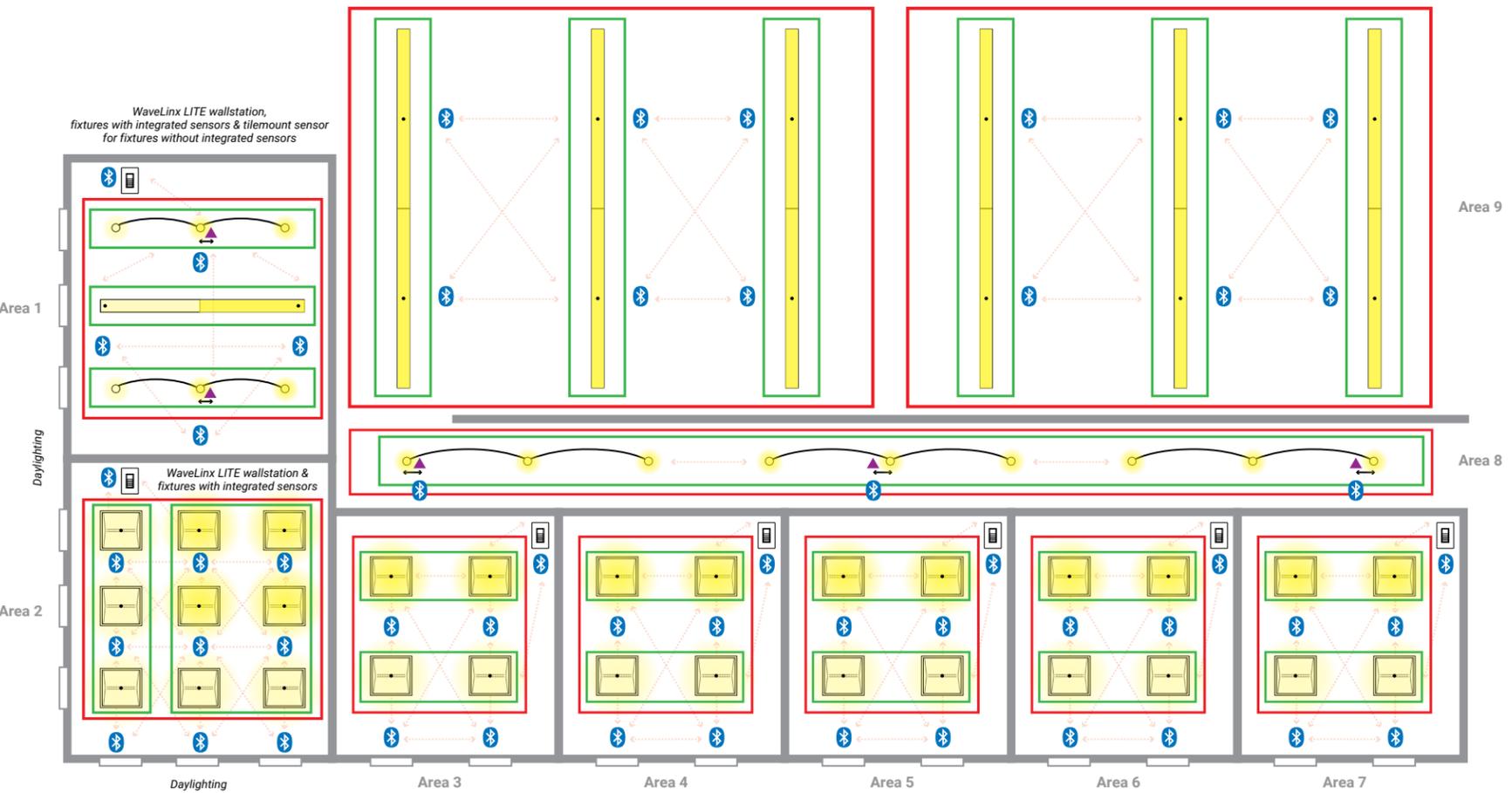
Reduce labor, cost and installation time with WaveLinx LITE to get low cost compliance for both retrofits and new installation.

- Improve productivity and maintenance
- Accommodate all users with configurable occupant lighting settings
- Easily program and reconfigure the space without rewiring from a simple mobile app
- Reduce unnecessary accessories with integrated fixtures providing daylight and occupancy detection



WaveLinx LITE Application: Office / Education

- Site = Floor or Building (indoor)
- 1 Area = 1 Room (up to 28 per Site)
- 16 Control Zones per Area
- 6 Occupancy Sets per Area
- Integrated Sensor
- Tilemount Sensor



WaveLinx EM

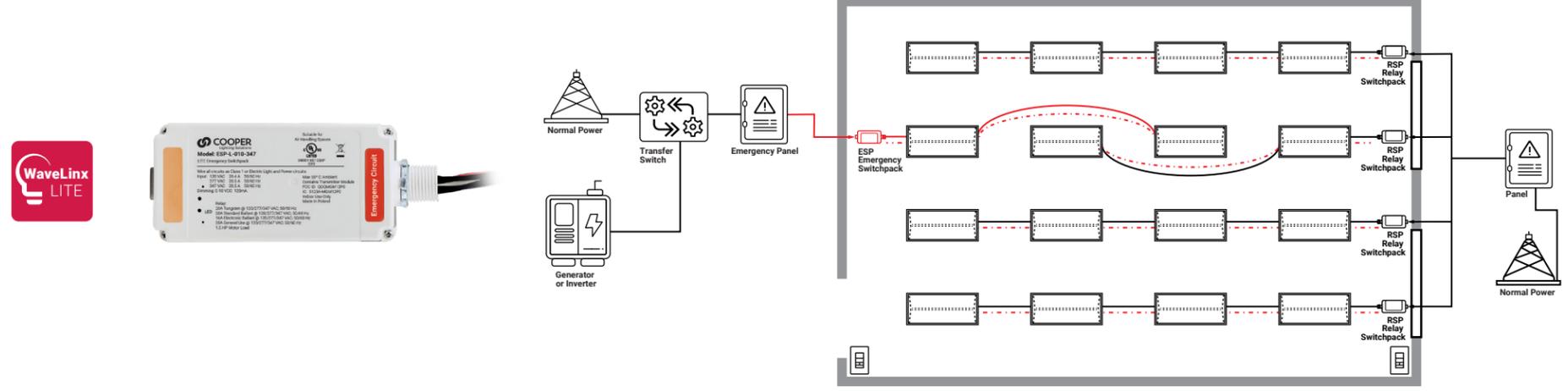
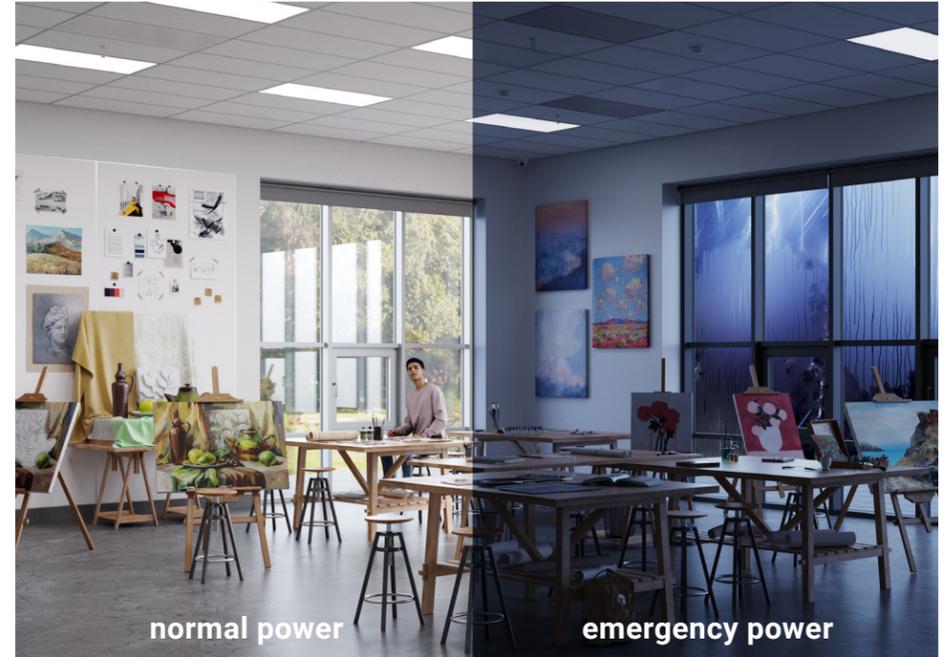
Emergency lighting is a critical element of any building design. It ensures occupant safety during power outages or emergencies. Centralized Emergency Power Solutions (generators and inverters) are excellent sources for backup power, however the drawback for them has always been additional wiring requirements for integrated controls. Now with the ability for an integrated wireless emergency (WEM) solution, there is no need for additional cable runs, resulting in the best of both worlds. Backup power without a battery life and no additional wiring, resulting in significant savings.

Emergency power control for integrated fixtures

Wireless Emergency

The WaveLinx LITE (ESP-L-010-347) emergency switchpack detects and responds to an emergency condition even during loss of power to normal devices – without the need for additional feeds. Once normal devices are provisioned, they'll communicate with the emergency device confirming the presence of normal power. The LITE mobile app test mode lets you simulate an emergency event without having to transfer power. This functionality allows for regular testing of installed devices without accessing upstream breakers.

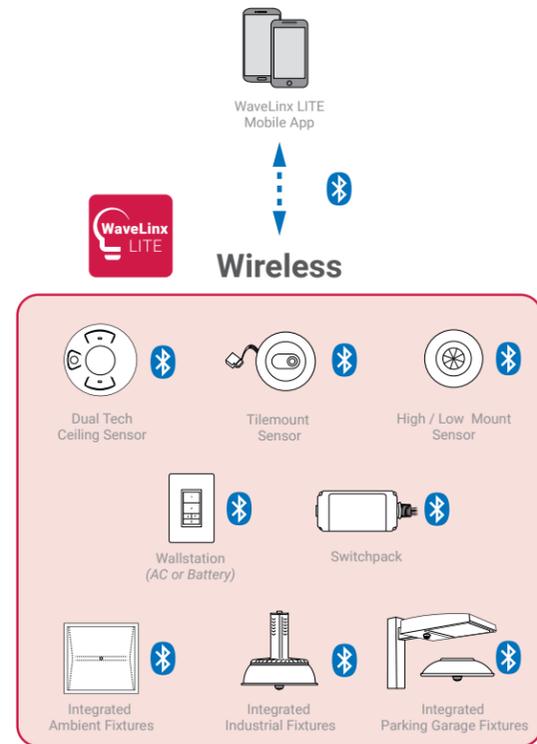
- Consists of a 120-347VAC 20A relay with continuous 0-10V dimming control
- The LITE switchpack communicates and integrates in the LITE system
- The device works in tandem with normal power sense devices in an emergency set to provide an emergency solution



LIGHTING & CONTROL PRODUCTS

WaveLinx LITE integrated fixtures install quickly with no special wiring requirements and utilize a robust Bluetooth wireless mesh network for simplified customization and control.

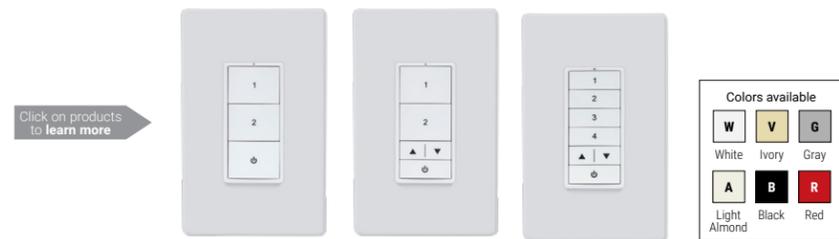
- Useful out-of-the-box functionality suitable for many applications
- Configured as a group of devices with the WaveLinx LITE mobile application
- Minimal design requirements
- Lighting and control in one convenient package



This diagram shows the the main components and topology of the WaveLinx system with LITE devices.

NOTE: WaveLinx LITE devices are not currently compatible with the WaveLinx Area Controller.

Wallstations



Line Voltage & Battery Powered Wallstations

Dimming | Manual | Scenes | Raise/Lower | Zones | Bluetooth

The line voltage and battery powered wallstation is available in three small and large button configurations. These wallstations are for new or renovation installations and provide customized light level for each area. The wallstation is suitable for standard single or multi-gang NEMA wall boxes. Each wallstation is pre-configured for immediate performance when provisioned to a WaveLinx LITE network and is fully programmable through the WaveLinx LITE Mobile Application, no physical adjustments necessary. Available in several [button configurations and colors](#).

Line voltage powered (120-277VAC)

catalog number:

- WWL3-W** - 3 Button, White
- WWL3-RL-W** - 3 Button Raise / Lower, White
- WWL5-RL-W** - 5 Button Raise / Lower, White

Battery powered (Utilizes two CR123A alkaline batteries with battery life expectancy up to ten years)

catalog number:

- WWBL3-W** - Battery powered, 3 Button, White
- WWBL3-RL-W** - Battery powered, 3 Button Raise / Lower, White
- WWBL5-RL-W** - Battery powered, 5 Button Raise / Lower, White

Suitable for use with standard and Decora wallplates (not included).

For custom engraving use the configurator tool within the FlashPro Program (CUST-ENGRV).

Note - WaveLinx LITE mobile application required to provision to network and customize programming for each button.

Sensors



Occupancy Ceiling Sensor

PIR | Acoustic | Daylight

The Occupancy ceiling sensor provides PIR and acoustic detection to determine if an area is still occupied even if no motion is detected directly. Available in both line and low voltage options with 3 coverage options.

catalog number:

OCS-L - LITE Occupancy Ceiling Sensor



Wireless Tilemount Sensor Kit

Sensing | Daylight | Downlights | Wireless

The WaveLinx LITE Tilemount Sensor Kit provides PIR occupancy and daylight dimming and control for connected downlight luminaires or other luminaires that do not support the WaveLinx LITE Integrated Sensor. The Tilemount Sensor Kit provides 0-10V dimming control of LED and non LED loads for up to 3amps 120-277V luminaires.

catalog number:

WTK - LITE Tilemount Kit*

WLST - Fixture Mounted LITE Tilemount Kit

* - accessory catalog number

Load Controllers



Relay Switchpack

Plug Load | 0-10V | Wireless | Emergency

The wireless dimming switchpack with 0-10V offers 120-347VAC 20amp zero crossing relay control and continuous 0-10V dimming control of LED and non LED loads. The wireless relay switchpack with 0-10V control also supports 20amp plug load control.

catalog number:

RSP-L-010-347 - Wireless Universal Voltage Dimming Switchpack - 20 amp

ESP-L-010-347 - Emergency Universal Voltage Dimming Switchpack - 20 amp



Largest portfolio of WaveLinx-enabled Luminaires

Cooper Lighting Solutions offers the largest portfolio of WaveLinx-enabled luminaires with embedded control devices (wireless sensor and wireless node). These factory-tested luminaire-level lighting control (LLLC) fixtures reduce the need to install additional sensors on the ceiling and switchpacks above the ceiling. These WaveLinx-enabled fixtures also:

- Eliminate the need to do sensor or switchpack layouts.
- Simplify installation by removing the need to run 0-10v dimming wires between fixtures.



Wireless Sensor

WaveLinx LITE sensors fit discretely in a luminaire for luminaire-level lighting control (LLLC). Fixtures can be connected without the need for dimming or control wires to run between fixtures.

Wireless Node

The WaveLinx LITE wireless node offers individual wireless fixture control without compromising the aesthetics of their preferred Cooper Lighting Solutions fixture.

Stand-alone occupancy and daylighting sensors are available to support each respective functionalities in combination of the luminaire wireless node.

Indoor Ambient Sensor

Daylighting | Occupancy | PIR Motion Sensing | Bluetooth

The WaveLinx LITE integrated sensor for Indoor Ambient applications is simple yet powerful and scalable. The sensor provides immediate out-of-the-box operation with motion sensing when installed. With the WaveLinx LITE mobile application, fixtures may be provisioned into control groups based on occupancy status and each sensor provides closed loop daylight sensing. The sensor is also upgradeable to the WaveLinx PRO Wireless Connected Lighting system and compatible with WaveLinx CORE enterprise applications.*

catalog number:

WLS/WAB - LITE Sensor for single rooms/spaces

Note - WaveLinx LITE mobile application required to provision to network and customize configuration.



Wireless Node

Fixture Control | In-fixture Installation | Wireless

An ideal solution for designers who want to offer individual wireless fixture control without compromising the aesthetics of their preferred Cooper Lighting Solutions fixture. The WaveLinx LITE node enables luminaire-level lighting control (LLLC) where there is limited room for integrated sensors – with downlights or linear fixtures, for example. The WaveLinx node provides flexibility in scene and zone configuration and can be used in conjunction with other WaveLinx LITE devices such as ceiling sensors, WaveLinx enabled luminaires with integrated sensors, and WaveLinx LITE wallstations.

catalog number:

WLN - LITE Wireless Node without sensor

Lighting products

Architectural | Ambient | Recessed

WaveLinx-enabled luminaires offer an intelligent, simple way to meet application requirements. You can be confident they will:

- Support integrated or tile mount connected sensors for occupancy tracking and daylighting.
- Provide service that's designed and tested to provide guaranteed compatibility.
- Eliminate the worry of controls and luminaire integration.



For a complete list of compatible products, see:

cooperlighting.com

Click on products to learn more



Industrial Fixture Mount High Bay / Low Bay Sensor

Sensing | Daylighting | Individual | Grouping | Motion

The WaveLinx LITE industrial high bay / low bay sensors offer passive infrared (PIR) occupancy with a photocell for closed loop daylight sensing. The sensors are IP66 rated for warehouse, manufacturing and industrial spaces with installation heights up to 40 feet (45 feet major motion) and coverage up to 5000 square feet. Easy tool-less fixture connection (Zhaga Book 18 socket) with out-of-the-box controls functionality. Factory or field install this sensor with 4 pin connector standard.

catalog number - Metalux Industrial models with WaveLinx LITE sensors integrated:

WLS2 - Fixture Mount Low Bay Sensor, 7 - 15ft (2.1 - 4.5m)

WLS4 - Fixture Mount High Bay Sensor, 15 - 40ft (4.5 - 12.2m)

(WaveLinx LITE Sensors also available individually - see spec sheets)



For a complete list of compatible products, see:
cooperlighting.com

Click on products to learn more



4-pin Zhaga Book 18 socket

Outdoor Fixture High / Low Mount Sensor

Sensing | Motion | Daylighting | Individual | Group / Zone

The WaveLinx LITE integrated sensor for Galleon and Top Tier parking garage applications is simple yet powerful and scalable. The sensor provides immediate standalone dusk-to-dawn operation with motion sensing when installed. With the WaveLinx LITE mobile application, fixtures may be provisioned into control groups based on occupancy status and each sensor provides closed loop daylight sensing. The sensor is also upgradeable to the WaveLinx PRO Wireless Connected Lighting system and compatible with WaveLinx CORE enterprise applications.

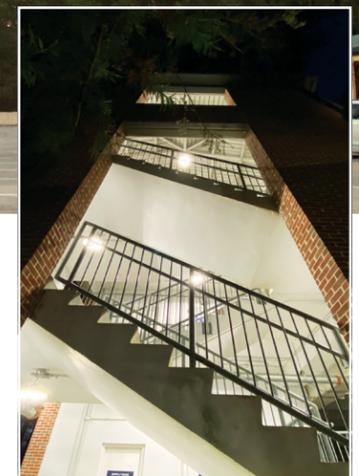
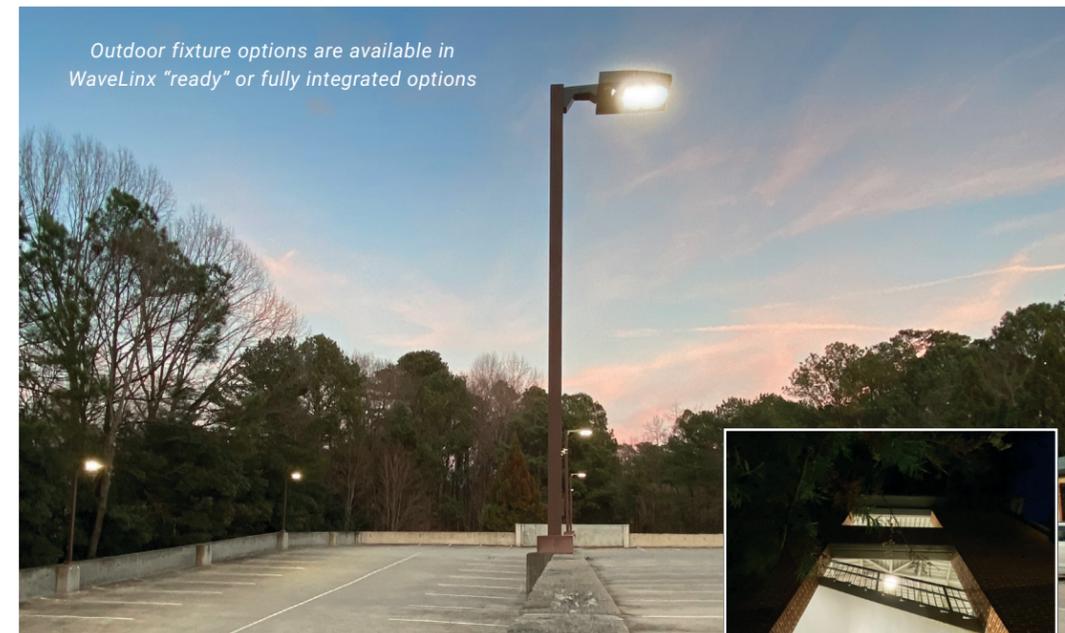
catalog number:

WLS2xx Outdoor Fixture Low Mount Sensor
7 - 15ft (2.1 - 4.5m)

WLS2xx Outdoor Fixture High Mount Sensor
15 - 40ft (4.5 - 12.2m)

xx - Available in white (WH), bronze (BZ), and black (BK)

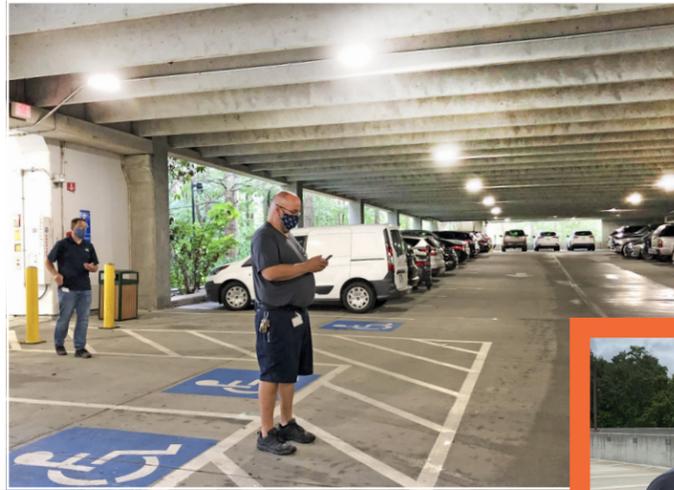
Note - WaveLinx LITE mobile application required to provision to network and customize configuration.



For a complete list of compatible products, see:
www.cooperlighting.com

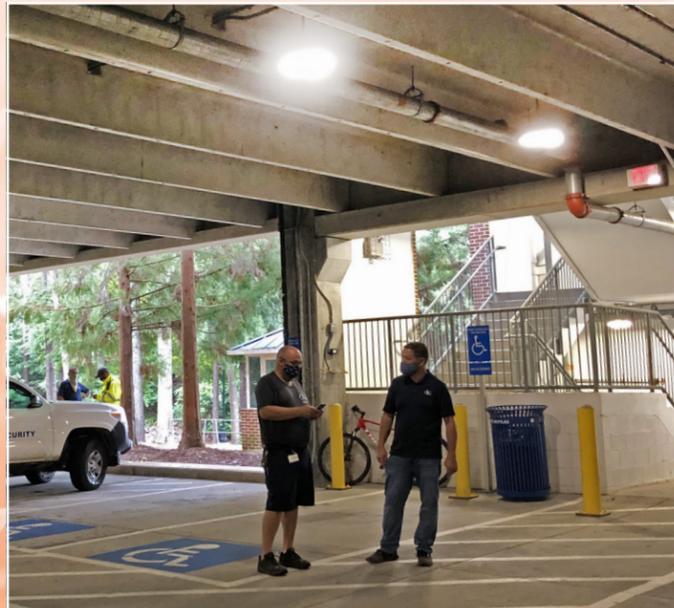
TESTIMONIALS

The Lovett School - Atlanta, GA



"The abilities of this system without the need to add additional wiring is a game changer."

Chris Haddox
Facilities Management Electrician,
The Lovett School



"The WaveLinx LITE system has allowed us to control the site lighting to meet the needs of the school. The grouping feature allows us to adjust lights that directly impact neighboring homes while still maintaining ideal light levels throughout the structure to maintain safety."

Brian Holtzapfel
Director of Plant Operations,
The Lovett School



We offer:

Field Project
Design Services

Pre-commissioning Support

Field Project Startup

Verification Walkthrough

Optimization
Services



Service and Support

A WaveLinx system creates incredible value, from the cost savings of occupancy detection to the flexibility and power of scheduled lighting control.

To maximize the return on your lighting system investment, your WaveLinx system must perform at its peak. We can help. With a network of experienced and skilled control specialists and a national presence, we can help with everything from system design, quote, implementation, and on-going maintenance.

Service Plans

Service Plans offer proactive, onsite, and remote diagnostics, configuration changes, training, and software/firmware updates typical of maintaining lighting control systems. Service Plans help facility managers and owners maintain their investment for optimal performance and maximum value.

Support

The services and support team simplifies design and specification. We're committed to supporting your project needs from design to occupancy and beyond.

Technical Support:

Phone: **+1 (800) 553-3879 (24/7 Support)**

Email (US): **controltechsupport@cooperlighting.com**

Why Cooper Lighting Solutions?

At Cooper Lighting Solutions, we build forward-thinking lighting solutions that make people's lives safer, while making buildings, homes, and cities smarter and more sustainable. We deliver an industry-leading portfolio of residential, sports, infrastructure, industrial, and commercial LED lighting; plus lighting controls and smart lighting systems.

We question, we seek, and we solve. Because building a better world means asking tough questions and pushing harder for answers. Together with our customers, we create solutions that build a better world. At Cooper Lighting Solutions, we push past the ordinary to build brighter.

Cooper Lighting Solutions is a business unit of Signify, the world leader in lighting. Together we have a shared purpose to unlock the extraordinary potential of light for brighter lives and a better world.



Lighting Brands

Ametrix
AtLite
Corelite
Ephesus
Fail-Safe
HALO
HALO Commercial
Invue
iO
Iris
Lumark
LumarkAP
Lumière
McGraw-Edison
Metalux
MWS
NeoRay
Portfolio
PrentaLux - 3D Printed Lighting
RSA
Shaper
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Printed in USA
Publication No. BR503078EN
January 2025

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