WaveLinx Connected Lighting System
Indoor | Outdoor | Industrial

Connected. Scalable. Smart.

COOPER Lighting Solutions
WaveLinxConnect.com
Take compliance, network security and energy savings into your own hands.

Automatic code compliance. 7-Tier network security features. Integrated wireless sensors to collect and transmit key building data. And, the ability to control your system from a mobile app and the ability to exchange data with third party applications.

It's simple: WaveLinx just works.
FLEXIBLE, TURNKEY INSTALLATION

Say goodbye to the high costs and complexity of typical addressable control systems

WaveLinx is designed for plug-and-play connectivity for either standalone or networked applications.

**Stand-Alone Installation:**
For smaller office spaces within a larger building.
- IT setup not required
- Set up and manage the system via mobile app
- Scalable to join larger network

**Network Installation:**
For entire building connectivity.
- Smart building ready
- Simple configuration
- Security features for peace of mind
- BACnet/IP and Public API (REST) integration
- Real-time alarms with smart tips
WaveLinx installation is so simple, programming can be done without an IT network.
Industry-leading technology, in a simple package

WaveLinx out-of-the-box functionality provides the fastest control confirmation on the market. It’s also one of the easiest lighting systems to install and manage. WaveLinx is the designer and contractor choice for offices, medical buildings, educational facilities, and more.

Save on installation time and cost
WaveLinx is designed to get you up and running faster. In some cases, it’s not even necessary to involve IT.

Get off the job faster
The commissioning process doesn’t need to cause headaches or hang-ups. The WaveLinx built-in features reduce commissioning time by 40% or more.

Be smart building ready
Gather real-time building data, so you can make more informed decisions and save energy. Data can be easily shared with your building enterprise platform via BACnet and Public API (REST).

Control it all, from your mobile device
Configure and control your system conveniently through an intuitive mobile application.


= up to 70% ENERGY SAVINGS
ASHRAE 90.1 2016 - 70%
IECC 2018 - 55%
T24 2019 - 70%
WaveLinx reduces project commissioning time by **40% or more**

The sensor is factory wired and ready to meet code out-of-the-box

**Automatic code compliance?**

**Yes, it’s true**

No more waiting weeks for commissioning teams, code compliance hang-ups or missed opportunity costs. With WaveLinx, you can finish the job more quickly, and move on to the next.

- Automatic code commissioning meets or exceeds code requirements
- 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
LEDs on double-duty

With IoT technology, your lights are more than lights – they're a gold mine for building information. Make better decisions with real-time, actionable data.

View key building information and optimize your zone settings, all from the mobile app:

• Occupancy/vacancy control lets you fine tune occupied light level and partial ON/OFF requirements
• Daylighting helps you harness your space's natural light, and meet code requirements
• Multicolor LED status lights allow for easy system troubleshooting and diagnostics

Imagine if your lighting system helped you get off the job faster with controls and lighting that just work
Stay secure with ultimate peace of mind

With information security threats and fears on the rise, WaveLinx is designed to keep your data on lockdown with seven tiers of security.

**Physical barriers to entry**
The WaveLinx server sits in the ceiling, and hidden from view.

**Network segmentation**
Isolated networks limit large scale security breaches.

**Customer security**
NIST Cybersecurity Framework and industry best practices.

**Over-the-air updates**
Wireless technology allows your system to securely stay up-to-date.

**Device security**
Features 128-bit encryption device-to-device communication.

**WaveLinx security assurance**
Continuous monitoring and reporting of internet threats and vulnerabilities.

**Network security**
Secure HTTPS protocols and WPA2 technology.

WaveLinx is UL2900-1 listed to the Standard for Software Cybersecurity for Network-Connectable Products.

www.WaveLinxConnect.com
Control and efficiency, at your fingertips

Next-level convenience and control: configure zones, customize settings, and save energy from one secure mobile app.

- Easy, automatic code commissioning provides a sequence of operations that meets the strictest codes
- Adjust automatic settings, with the ability to configure each setting yourself
- View occupancy/daylight data from sensors, and further savings by implementing demand response

www.WaveLinxConnect.com
WaveLinx can offer

**SIGNIFICANT BENEFITS**

- Save time reacting to your system with Trellix Lighting App and our system smart tips
- Achieve more with the wireless system that has the broadest offering of indoor and outdoor controls and fixtures
- Stay secure with unparalleled 7-tier network security features with UL2900 Cybersecurity Certification

In a typical 10,000 square foot school area, the WaveLinx system offers significant benefits:

- **30% Maintenance Savings**
  Easily reconfigure the classroom without rewiring from a simple mobile app
  Wireless controls install faster for less downtime during school retrofit or construction

- **40% Faster Install & Set-up**
  Achieve faster certificate of occupancy by reducing installation time of the lighting and control system by 40%
  Easily program the luminaires to work the way the school wants rather than hardwired zones
  Reduce unnecessary accessories with luminaires with integrated fixtures providing daylight and occupancy detection

- **15% Lower Installed Cost**
  Reduce total installed cost with fewer components and less hard piped conduit
  Eliminate up to 60% of wire runs and 45 minutes per control zone

- **25-70% Energy Savings**
  Save 47% more energy on average by utilizing Networked Lighting Controls (NLCs)
  25-70% energy savings are possible with integrated luminaire lighting controls
  Simplify energy code compliance (CA T24, ASHRAE, IECC)

**Education**

Complete projects and open schools faster while reducing cost with the WaveLinx system, for LED lighting and control projects.
**Offices**

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

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**Wireless, code-compliant and cost-effective**

**Lighting**
- Multiple zones
- Out of the box 75% high end trim

**Occupancy**
- Automatic on to 50%
- Automatic plug load control
- Vacancy option

**Daylighting**
- Continuous dimming to off
- Open or closed loop daylighting

**Manual Controls**
- Fully programmable scene or zone buttons
- Intuitive controls

**Scheduling**
- UL924

**Energy calculations** (available through Trellix)
- DLC NLC V2 qualified

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In a typical 10,000 square foot commercial office area, the WaveLinx system offers significant benefits:

**IMPROVE Productivity & Maintenance**

Wireless controls install faster for shorter down time
Easily reconfigure the space without rewiring from a simple mobile app
Accommodate all users with configurable occupant lighting settings

**40% Faster Installation**

Achieve faster certificate of occupancy by reducing installation time of the lighting and control system by 40%
Easily program the system using the WaveLinx mobile application

**15% Lower Installed Cost**
Reduce total installed cost with fewer components and less required conduit
Eliminate up to 60% of wire runs and 45 minutes per control zone with wireless lighting controls

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TRELLIX

Smart spaces IoT platform

Trellix is an on-premise smart spaces IoT platform that moves real-time monitoring and processing to the edge which allows you gain faster insights of buildings operations, drive efficiencies and make effective decisions.

Trellix lighting management software application

Enterprise | IoT | BACnet | API Integration

The Trellix lighting management software application helps facility/property managers take full advantage of IoT by connecting WaveLinx with other building systems using BACnet and Public API (REST). Trellix solutions include alarms with smart tips, system events, demand response, platform flexibility and future proofing.

catalog number:

TRX-LGT250 - Additional Trellix Basic licenses (250 nodes).
(Included in TRX-TCPRO2, TRX-TCENT2, TRX-TCVRT2)
(BACnet and API sold separately).
See product spec sheet for ordering information.

TRX-BAC250 - Additional Trellix BACnet licenses (250 nodes).
(included in TRX-TCPRO2, TRX-TCENT2, TRX-TCVRT2).
See product spec sheet for ordering information.

TRX-API250 - Additional Trellix API licenses (250 nodes).
(included in TRX-TCPRO2, TRX-TCENT2, TRX-TCVRT2).
See product spec sheet for ordering information.

TRX-OPNADR - Trellix OpenADR software license (unlimited nodes).
See product spec sheet for ordering information.


For more information, see: TrellixConnect.com

UL2900 LISTED

Listed Networked Lighting Controls

The Trellix Core Pro hardware platform is UL2900-1 listed to the Standard for Software Cybersecurity for Network-Connectable Products.

www.WaveLinxConnect.com
**Enterprise Scheduling**
Allows facility managers to make changes to schedules from a central location. This feature is ideal for medium and large facilities with multiple Wireless Area Controllers.

**Alarms & Events**
**Real-time notifications of system faults** – Allows the facility manager to pro-actively address issues before they are reported by occupants.

**Smart tips for each alarms** – Empowers facility managers by allowing them to investigate and resolve the issues.

**Email Notifications** – Allows the facility managers to get notification on their mobile devices when away from their desk.

**Floor Plan**
Allows facility managers to create a floor plan so that they can have a visual representation of their lighting system. The floor plan is used to locate devices, view their status, and send manual commands to a single area(s), zone(s) or single device.

**Energy Dashboard**
Improve your lighting system efficiency (light fixtures and plug load) with better visibility and analytics.

**Systems**
OpenADR is an open and standardized way for electricity providers to communicate demand response signals with their customers using a common language over any existing IP-based communications network, such as the Internet.

**Demand Response** – Take advantage of the incentives offered by utility companies by participating in on-going Demand Response (DR) programs.

**OpenADR, BACnet/IP or Public API** – Use any of these three protocols to broadcast a demand response signal to all connected wireless area controllers.

**No additional embedded device/hardware** – The OpenADR interface is hosted on the Trellix Core (Pro, Enterprise and Virtual) hence eliminating the need for installing any additional hardware to be code compliant.

**OpenADR 2.0b Compliant** – Allows users to meet today’s and future requirements. OpenADR 2.0b has been designed for high performing embedded devices such as the Trellix applications capable of supporting most DR services and markets.
CONTROL DEVICES

Precise control. Wireless communication.

**Trellix Core Enterprise**
Enterprise | BACnet | API Integration
The Trellix Core Enterprise is an on-premise hardware platform hosting Trellix software applications. It networks up to five-hundred (500) Wireless Area Controllers collecting data that can be shared with third party system via BACnet and Public API (REST).

catalog number:

- **TRX-TCENT2** - Trellix Core Enterprise (supports 500 WACs)
  Includes: 250 nodes (BACnet, API included)

**Virtual Trellix Core Enterprise**
Enterprise | BACnet | API Integration
The Trellix Core Enterprise is an on-premise hardware platform hosting Trellix software applications. They network up to five-hundred (500) Wireless Area Controllers collecting data that can be shared with third party system via BACnet and Public API (REST).

catalog number:

- **TRX-TCPR02** - Trellix Core Pro (supports 20 WACs)
  Includes: 250 nodes (BACnet, API included)

- **WAC-POE** - Wireless Area Controller without PoE injector
- **WPOE-120** - PoE injector accessory

**Trellix Core Pro**
Enterprise | BACnet | API Integration
The Trellix Core Pro is an on-premise hardware platform hosting Trellix software applications. It networks up to twenty (20) Wireless Area Controllers collecting data that can be shared with third party system via BACnet and Public API (REST).

catalog number:

- **TRX-TCPR02** - Trellix Core Pro (supports 20 WACs)
  Includes: 250 nodes (BACnet, API included)
Wireless Ceiling Sensor
Sensing | Daylight | Wireless | Battery
The room based wireless sensor offers PIR occupancy and daylight sensing of up to 1500 square feet. The room based sensor is battery powered and is one of the smallest ceiling mounted room based wireless occupancy and daylight sensors on the market. The sensor in combination with the WaveLinx mobile application allows you to gain considerable energy savings from occupancy sensing-based control of lighting and plug loads.

catalog number:
WPD-1500 - Ceiling sensor

Wireless Dimming Switchpack
Plug Load | 0-10V | Wireless
The wireless dimming switchpack with 0-10V (WSP-MV-010) offers 120-277VAC 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:
WSP-MV-010 - Relay dimming switchpack

Wireless Tilemount Sensor Kit
Sensing | Daylight | Downlights | Wireless
The Tilemount Sensor Kit provides PIR occupancy and daylight dimming and control for connected downlight luminaires or other luminaires that do not support the WaveLinx 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:
WTA - Tilemount Sensor Kit (also includes hardware for installation to standard 4” octagonal junction box)

Wireless 347V Dimming Switchpack
0-10V | 120-347VAC | Wireless
The 347V dimming switchpack (WSP-CA-010) offers 120-347VAC 20amp relay control and continuous 0-10V dimming control of LED and non LED loads.

catalog number:
WSP-CA-010 - 347V Relay dimming switchpack
Wireless Wallstation
Manual | Scenes | Zones | Wireless

The wireless wallstation is available in several small and large button configurations as well as various colors. These wallstations are mains powered and provide wireless control of the lighting in each area. The wireless wallstation mounts in a standard wallbox and includes a decorator style color matching wallplate. Each wallstation is fully configurable to provide local and multi-level control in each area.

catalog number:
W1L - * - 1 Large button
W1L-RL - * - 1 Large button with raise/lower
W2L - * - 2 Large button
W2L-RL - * - 2 Large button with raise/lower
W2S - * - 2 Small button
W2S-RL - * - 2 Small button with raise/lower

* - available in white(W), ivory (V), gray (G), and black (B)

Wireless Receptacle
Plug Load | Wireless

The wireless receptacle provides simplified wireless plug load control. Plug load control is required now in many building codes as part of an energy saving control strategy. The wireless receptacle is automatically paired with all WaveLinx occupancy sensors in a space when it is assigned to an area using the WaveLinx Mobile Application.

catalog number:
WR-15 - 15A wireless receptacle
WR-20 - 20A wireless receptacle

Battery Wallstation
Battery | Manual | Scenes | Zones | Wireless

The wireless wallstation is available in several small and large button configurations. These battery powered wallstations are for new or retrofit installations and provide wireless control of the lighting in each area. The wallstation surface mounts to a wall and includes a decorator style color matching wallplate. Each wallstation is fully configurable to provide local and multi-level control in each area. Battery life expectancy up to ten years.

catalog number:
WB2L-S1 - * - 2 Large button, S1
WB2L-S2 - * - 2 Large button, S2
WB2L - * - 2 Large button
WB3L-S2 - * - 3 Large button, S2
WB3L-D - * - 3 Large button, D
WB3L - * - 3 Large button

* - available in white(W)

Touchscreen
PoE powered | Light control | Architectural design

The WaveLinx TSE57 touchscreen provides an elegant and discreet light control for any WaveLinx controlled area. The portrait-oriented 5.7” (14.5cm) touchscreen features a low-profile design with edge to edge glass and an extremely responsive display making it a great architectural addition to conference rooms, executive offices and open spaces.

catalog number:
TSE57-WLX-B - 5.7” Touchscreen
WaveLinx wireless technology offers an intelligent, simple, easily control of various luminaires to meet application requirements:

- Supports integrated or tile mount connected sensors for occupancy and daylighting
- Designed and tested to provide guaranteed compatibility
- Eliminate the worry of controls and luminaire integration

**Integrated Sensor**
Sensing | Daylight | Wireless
The integrated sensor combines control within the light fixtures to reduce installation and design time; while meeting energy codes. With the integrated sensor the lighting design is the control design capable of IoT features without hardware replacement.

catalog number:
WAA - Integrated sensor
See luminaire spec sheets for ordering information
**Ambient lighting**

Integrated sensors
Sensing | Daylighting | Individual | Grouping

Metalux
WSL
Linear surface / suspended series
WaveStream LED

Metalux
SkyRidge
Recessed ambient
WaveStream LED

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

**Recessed lighting**

Tile Mount Sensing

Halo
PD6
LED recessed downlight
(wireless control)

Portfolio
LDSQA4A
LED square adjustable accent/slope
(wireless control)

Portfolio
LD4A and LDSQ4A
Round and square recessed downlight
(wireless control)

Metalux
Encounter
Recessed ambient
WaveStream LED

Metalux
Cruze & Cruze Retrofit Kit
LED recessed ambient

Metalux
Arcline
Architectural recessed ambient

Metalux
FR
LED recessed ambient

www.WaveLinxConnect.com
Industrial High Bay Sensor
The WaveLinx industrial high 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 and coverage up to 2500 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:
ZW-SWP03 - Fixture Mount High Bay Sensor, 15 - 40ft (4.5 - 12.2m)

Industrial fixture options are available in WaveLinx "ready" or fully integrated options

www.WaveLinxConnect.com
Outdoor lighting

**Outdoor Fixture Mount Sensor**
The WaveLinx outdoor sensors (high and low mounted) offer passive infrared (PIR) occupancy with a photocell for closed loop daylight sensing. The sensors are IP66 rated for outdoor site and indoor environments with installation heights up to 40 feet and coverage up to 5000 square feet. Easy tool-less fixture connection (Zhaga Book 18 socket) with out of the box controls functionality. Available color options: white, black and bronze. Factory or field install this sensor with 4 pin connector standard.

catalog number:
ZW-SWPD4xx - Outdoor Fixture Mount
Low Bay Sensor,
7 - 15ft (2.1 - 4.5m)
ZW-SWPD5xx - Outdoor Fixture Mount
High Bay Sensor,
15 - 40ft (4.5 - 12.2m)
xx - available in white (WH), bronze (BZ), and black (BK)

**Wireless Outdoor Lighting Control Module**
The WaveLinx 7-pin outdoor lighting control module enables schedules to provide ON, OFF and dimming controls based on astronomic or time schedules based on a 7 day week. Allows to create multiple control zones.

catalog number:
WOLC-7P-10A - Outdoor lighting control module

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

Outdoor fixture options are available in WaveLinx "ready" or fully integrated options
CREATING GREATER EXPERIENCES THROUGH MINDFUL DESIGN

Mindful design begins by understanding human behavior in order to design better solutions that integrate and enhance lifestyle, rather than interrupt it. It's about anticipating unmet needs. It's crafting solutions that are simple, but not simplistic. It's creating harmony, connection and more rich, meaningful experiences.

Our portfolio of connected lighting solutions leverages the real-estate of the physical light fixture to increase building, business and community operating efficiency through controls and data. With connected lighting solutions, we go beyond controlling light to solve higher complexity problems enabled by sensing and communication capabilities within the light fixture itself.

www.WaveLinxConnect.com