

WaveLinx

Wireless Connected
Lighting System

EATON

Powering Business Worldwide



EATON

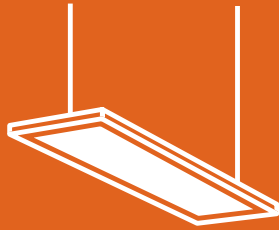
Powering Business Worldwide

WaveLinx Wireless Connected Lighting System



EATON POWER

Unparalleled knowledge
of electrical
power management



LIGHTING

Advanced LED fixtures



CONNECTIVITY

Communications &
sensing technology

Physical devices
& controllers



APPS / SOFTWARE

Data accumulation
& analysis

Software applications

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.

Connected Lighting simplified by Eaton

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.

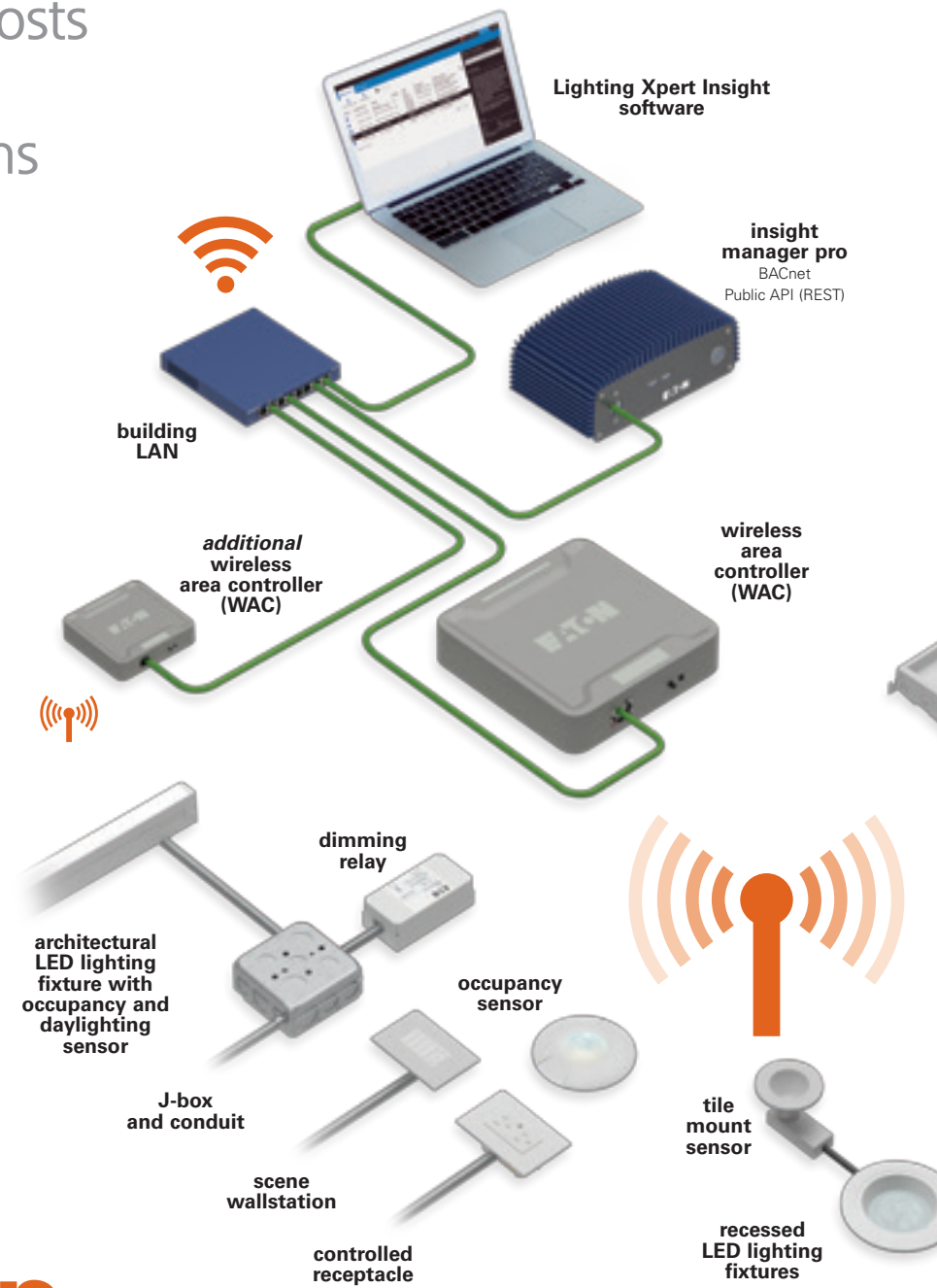
- IT setup not required
- Set up and manage the system via mobile app
- Scalable to join larger network

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

Flexible, turnkey installation



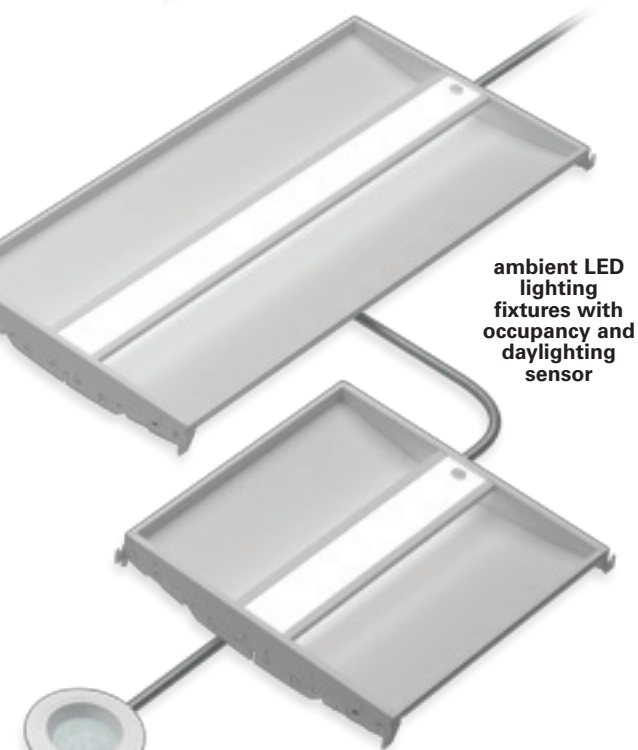
For many WaveLinx applications,

installation is so simple,

it's not even necessary to involve IT



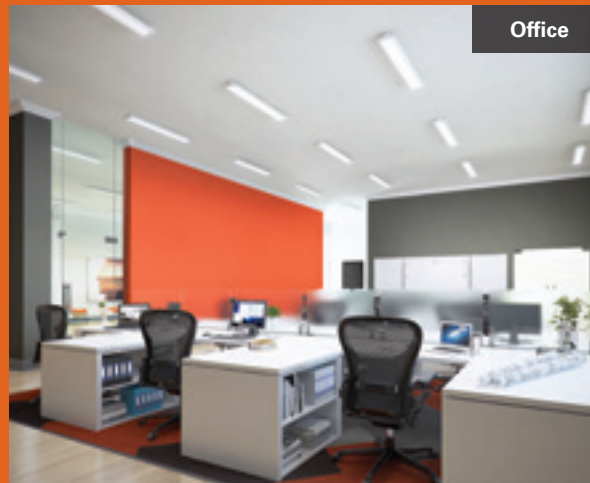
outdoor
area/site/flood
LED lighting
fixtures



ambient LED
lighting
fixtures with
occupancy and
daylighting
sensor



WaveLinx
mobile
app



Office



Education



Industrial



Outdoor



Technology

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

Integrated sensors on the light fixtures 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

View building stats and program multiple zone settings conveniently, with an easy-to-use mobile app.



Stay secure with unparalleled 7-tier network security features

Wireless, code-compliant, and cost-effective for today



Lighting fixture with integrated sensor

Highly efficient LED fixtures



Wireless Area Controller

Provides centralized coordination of multiple area control options



Wireless Wall Station/Receptacle

Provides wireless control of multiple and local areas



Mobile Applications

Provides personalized, local control from a tablet or smartphone



up to
70%
ENERGY SAVINGS

ASHRAE 90.1 2016 - 70%
IECC 2015 - 55%
T24 2016 - 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



Customer security

NIST Cybersecurity Framework and industry best practices



Device security

Features 128-bit encryption device-to-device communication



Network security

Secure HTTPS protocols and WPA2 technology



Network segmentation

Isolated targets mean reduced for large scale breaches



Over-the-air updates

Wireless technology allows your system to securely stay up-to-date



Eaton COE assurance

Continuous monitoring and reporting of internet threats and vulnerabilities



UL2900-01 LISTED

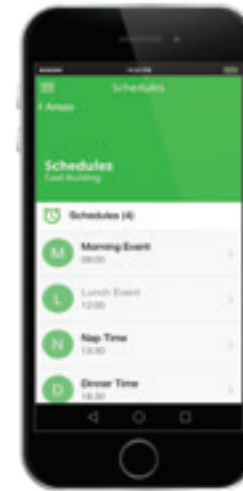
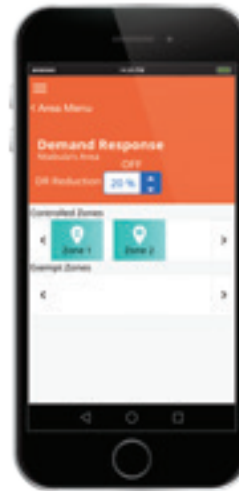
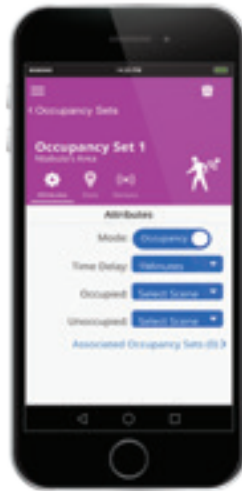
*WaveLinx is UL2900-1 listed to the Standard for Software Cybersecurity for Network-Connectable Products
Eaton has the first lab approved to participate in UL's Data Acceptance Program for Cybersecurity*

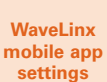









Control and efficiency, at your fingertips



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 implement demand response to save money



 <p>WaveLinx mobile app settings</p>	 <p>Manual Dimmer</p>	 <p>Occupancy Sensor</p>	 <p>Lumen Maintenance Control</p>	 <p>Daylighting Control</p>
 <p>Receptacle Control</p>	 <p>Tuning Control</p>	 <p>Scheduling</p>	 <p>Manually Switched ON/OFF</p>	 <p>Demand Response</p>

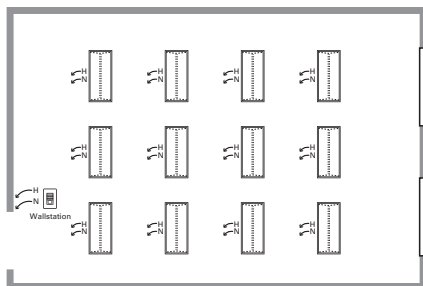
WaveLinx can offer significant benefits

- Save time reacting to your system with WaveLinx Insight Manager 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



Education

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



WaveLinx mobile app used for system setup and personal control

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

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

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

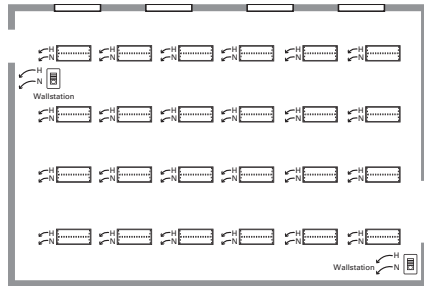
25-70% Energy Savings

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 (CAT24, ASHRAE, IECC)



Offices

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



WaveLinX mobile app used for system setup and personal control

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

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

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

up to 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 (CAT24, ASHRAE, IECC)



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

Power Measurement

DLC NLC V2 qualified



Control devices

Precise control. Wireless communication.



Wireless Area Controller

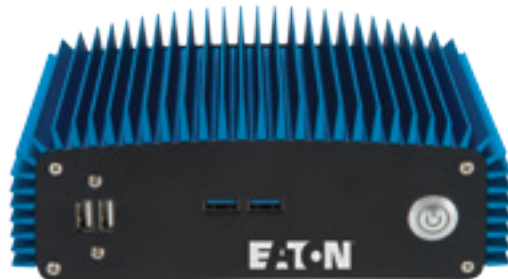
The Wireless Area Controller (WAC-POE) is the main component of the Eaton WaveLinx Wireless Connected Lighting System. The WAC coordinates between the WaveLinx Mobile App and various WaveLinx devices to create a smart building ecosystem that provides out of the box functionality and leverages our patent pending automatic code commissioning features.

catalog number:

WAC-120 - Wireless Area Controller with PoE injector

WAC-POE - Wireless Area Controller without PoE injector

WPOE-120 - PoE injector accessory



Insight Manager Pro

Enterprise | BACnet | API Integration

The Insight Manager Pro is an on-premise hardware platform hosting Lighting Xpert Insight enterprise lighting management software application. 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:

ELS-IMPRO1 - Insight Manager Pro (supports 20 WACs)

Includes: 1000 nodes (BACnet, API, AV)



Insight Manager Enterprise Virtual Insight Manager

Enterprise | BACnet | API Integration

The Insight Manager Enterprise is an on-premise hardware platform hosting Lighting Xpert Insight enterprise lighting management software application. 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:

ELS-IMENT1 - Insight Manager Enterprise (supports 500 WACs)

Includes: 1000 nodes (BACnet, API, AV)

ELS-IMVRT1 - Insight Manager Virtual Enterprise (supports 500 WACs)

Includes: 1000 nodes (BACnet, API, AV)

Lighting Xpert Insight Software

Enterprise | IoT | BACnet | API Integration

The Lighting Xpert Insight management software application helps real-estate professions take full advantage of IoT by connecting WaveLinX with other building systems using BACnet and Public API (REST). Xpert Insight also includes alarms with smart tips, system events, demand response, platform flexibility and future proofing.

catalog number:

ELS-LXISLI - LXI Software license for interfaces (included in ELS-IMPRO1, ELS-IMENT1, ELS-VRT1)
Includes: 1000 nodes (BACnet, API, AV)

ELS-BACK** - BACnet License adder
**defines number of additional nodes
See product spec sheets for ordering information

ELS-APIK** - API License adder
**defines number of additional nodes
See product spec sheets for ordering information



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 347V Dimming Switchpack

0-10V | 120-347VAC | Wireless

The 347V dimming switchpack (WSP-CA-010) offers 120-347VAC 20amp relay control and continuous 1-10V dimming control of LED and non LED loads.

catalog number:

WSP-CA-010 - 347V Relay dimming switchpack



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.

catalog number:

SWPD1 - Integrated sensor

See luminaire spec sheets for ordering information



Wireless Tilemount Daylight Sensor

Daylight | Dimming | Downlights | Wireless

The Tilemount daylight sensor provides daylight dimming and control for connected downlight luminaires or other luminaires that do not support the WaveLinX Integrated Sensor. The Tilemount daylight sensor provides 0-10V dimming control of LED and non LED loads for 120-277V 3amps luminaires.

catalog number:

TMSVPD1 - Tilemount daylight sensor

www.eaton.com/WaveLinX



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:

CWPD-1500 - Ceiling sensor



Wireless Outdoor Lighting Control Module

Scheduling | Dimming | Astronomic | Wireless | Zones

The 7-pin wireless outdoor lighting control module enables WaveLinX to control outdoor area, site and flood lighting. WaveLinX controls outdoor lighting using 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



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

catalog number:

- W3L** -* - 3 Large button
- W4S** -* - 4 Small button
- W4S-RL** -* - 4 Small button with raise/lower
- W5S** -* - 5 Small button
- W6S** -* - 6 Small button



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



Lighting products

Eaton's WaveLinx 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 by Eaton to provide guaranteed compatibility
- Eliminate the worry of controls and luminaire integration

Architectural lighting

Integrated sensors
Sensing | Daylighting
Individual | Grouping



Corelite Divide
Suspended WaveStream LED



Neo-Ray Define Gen 2
Linear recessed LED



Corelite Jaylum
Suspended LED



Corelite Iridium
Linear suspended WaveStream LED



Corelite Continua
Linear suspended LED



Corelite Bridge
Architectural recessed WaveStream LED



RSA MRZ
Architectural recessed integral LED

Ambient lighting

Integrated sensors

Sensing | Daylighting | Individual | Grouping

Metalux WSL

Linear surface /
suspended series
WaveStream LED



Metalux
SkyRidge
Recessed ambient
WaveStream LED



Metalux
Encounter
Recessed ambient
WaveStream LED



Metalux
**Cruze &
Cruze Retrofit Kit**
LED recessed ambient



Metalux
Arcline
Architectural
recessed ambient



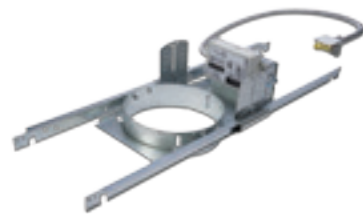
Metalux
FR
LED recessed
ambient

For a complete list of
compatible products, see:

www.eaton.com/WaveLinx

Recessed lighting

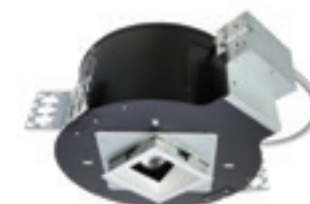
Tile Mount Sensing | Direct Driver Control



Halo
PD6
LED recessed
downlight
(wireless control)



Halo
RL56
LED recessed
downlight
(direct wireless)



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



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

Outdoor lighting

Scheduling | Dimming | Astronomic | Wireless | Zones

LEDs can be fitted with smart and connected controls, allowing lighting infrastructure to be easily configured to operate based on astronomic or time schedules, for all or zones of outdoor luminaires.



Galleon LED
Area and site



Talon LED
Area and site



Prevail
Area and site



Ventus LED
Area and site



Caretaker LED
Area and site



Arbor LED
Area and site



Verdeon
Area and site



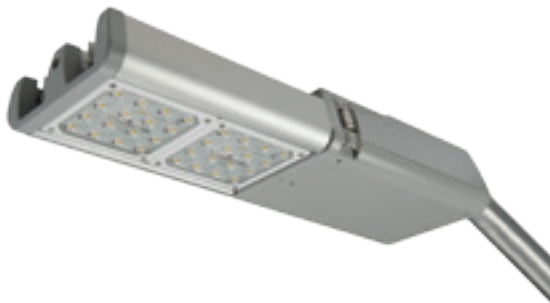
Galleon LED
Wall



Verdeon M
Area and site



Impact Elite Cylinder LED
Wall



Navion LED
Area and site



Night Falcon
Floodlight



For a complete list of
compatible products, see:
www.eaton.com/WaveLinx

Get started.

Eliminate the cost and complexity of typical addressable control system commissioning and benefit from a flexible reconfigurable wireless topology with WaveLinx.





We make connections work*
Connected Lighting simplified by Eaton

What is Connected Lighting?

* Eaton's 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.

With innovation you can rely on, and connections you can build on; that's how Eaton makes connections work.

Lighting Product Lines

Halo
Halo Commercial
Portfolio
Iris
RSA
Metalux
Corelite
Neo-Ray
Fail-Safe
MWS
Ametrix
Shaper
io
Lumark
McGraw-Edison
Invue
Ephesus
Lumière
Streetworks
AtLite
Sure-Lites

Controls Product Lines

Greengate
iLumin
Zero 88
Fifth Light Technology
iLight (International Only)

Connected Lighting Systems

LumaWatt Pro
WaveLinx
Distributed Low-Voltage Power
ConnectWorks
iLumin Plus
HALO Home



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