# LumaWatt Pro

## 1. What is LumaWatt Pro?

Eaton's LumaWatt Pro powered by Enlighted is the connected lighting solution that combines a broad selection of energy-efficient LED luminaires with a powerful wireless sensor system. The sensor controls the lighting system in compliance with the latest energy codes and collects important data about building performance and use. System software turns granular data into information and shares it through energy dashboards and specialized apps that make it easy to make better use of building resources, beyond lighting.

## 2. What components do I need to have a complete LumaWatt Pro system?

- LumaWatt Pro Energy Manger
- LumaWatt Pro POE Switch
- LumaWatt Pro Gateway
- LumaWatt Pro Sensors (Fixture integrated occupancy sensor, ambient light sensor and control)
- LumaWatt Pro Plug Load Controller
- LumaWatt Pro Wireless Wall switch
- LumaWatt Pro Software Licenses

## 3. How many devices can exist on a Gateway?

The LumaWatt Pro system supports over 150 wireless sensors per LumaWatt Pro Gateway. These devices should be within 150 feet line of sight to the gateway. It is best practice to have a Gateway communicate to devices on the same floor.

## 4. Can the gateway communicate to devices beyond the 150 ft. line of sight best practice?

Yes, LumaWatt Pro supports wireless device beyond the 150 ft. limit by allowing devices to be hoppers to extend the wireless communications footprint.

## 5. What wireless technologies are used?

The gateway includes an IEEE 802.15.4 standard radio for communications to the LumaWatt Pro devices.

## 6. What luminaires are capable of supporting LumaWatt Pro?

Several Eaton luminaries are currently being updated to support Wireless Connected Lighting options. .

- Ambient – Encounter, Sky ridge, Cruze, ArcLine, Accord, SWLED, GRLED, FRLED
- Industrial – HBLED, Steeler, WSL, iLED
- Recessed – Portfolio, Halo Commercial, Halo SLD, iRis P3, PN3
- Architectural – Define, Index, Arc, Divide, Bridge, JayLum, RZL, Dual Edge

Additional luminaires are continuously being reviewed and planned to support LumaWatt Pro
The LumaWatt Pro Control unit with 0-10V allows virtually any 0-10V luminaire to be controlled by our Wireless Connected Lighting Solution.

## 7. Does LumaWatt Pro support the new DLC CALC requirements?

Yes, LumaWatt Pro is DLC compliant for networked lighting controls.

Powering Business Worldwide

### 8. Does LumaWatt Pro support the space requirements of Title 24?

Yes, LumaWatt Pro was designed to meet the latest energy codes including Title 24 2016.

### 10. What are the benefits of LumaWatt Pro?

- **Internet of Things (IoT) system:** Conserve energy while deploying an infrastructure to help solve high value problems.
- **Secure and Scalable:** Simply manage one system what can scale across your enterprise for both interior and exterior applications.
- **Beyond Lighting:** Increase employee productivity and gain operational efficiencies through applications beyond lighting control.
- **Real time data:** Make smarter decisions using real time sensing data and analytics.

### 11. Does LumaWatt Pro provide power measurement data?

Yes, using the LumaWatt Pro Energy Manager application power measurement data can be provided for each sensor, area and zone.

### 12. How is emergency lighting accomplished using LumaWatt Pro?

Many of the luminaires currently planned to integrate with LumaWatt Pro include battery backup options. At the building level our CEPC-1-D product can be used with the LumaWatt Pro Control Unit with 0-10V to support individual luminaires or a zone of luminaires.

### 13. Are there any battery powered devices in the system?

Yes, the Wireless Wall switch is battery powered. The system uses a low power approach to transmit messages with this product that limits power consumption and provides up to 7 year battery life.

### 14. How can the end user control dimming of the areas?

The end user can adjust the dimming of luminaires in each area from local wall stations in the space.

### 15. How are emergency fixtures handled in LumaWatt Pro?

This depends on the type of fixtures and LumaWatt Pro device being used. With Eaton Luminaires that include the LumaWatt Pro smart sensors an internal battery pack is provided. In the case where a LumaWatt Pro Control module is used often emergency power is provided by a generator or inverter and the Eaton CEPC-1-D is used to drive the lighting to full bright.

### 16. Will LumaWatt Pro interfere with the building WIFI system?

No, LumaWatt Pro uses an 802.15.4 communication protocol which uses different communications channels than building Wi-Fi.

## 17. Is LumaWatt Pro secure?

Yes, the LumaWatt Pro system uses AES 128bit encryption for communications from device to device. The system also uses NIST recommended building security best practices and procedures where connected to the building network. For more detailed information on LumaWatt Pro security see the LumaWatt Pro security FAQ.

## 18. What are the wireless specifications for LumaWatt Pro?

- LumaWatt Pro uses the IEEE 802.15.4 standard radio to communicate to devices
- Approximately 150 (best practices) devices are supported per Gateway.

**Eaton**
1121 Highway 74 South
Peachtree City, GA 30269
P: 770-486-4800
www.eaton.com/lightingsystems
For service or technical assistance:
1-800-553-3879

Canada Sales
5925 McLaughlin Road
Mississauga, Ontario L5R 1B8
P: 905-501-3000-
F: 905-501-3172


Printed in USA
Publication No. SA503013EN
May 18, 2017



Powering Business Worldwide