

Connected Lighting Module

Enables Luminaires to Integrate into Wireless Light Management Systems



2016 LFI INNOVATION AWARDS Winner.

The Connected Lighting Module (CLM) is a key component in a Light Management System (LMS).

It enables luminaires to be connected to the LMS that are based on ZigBee® communication protocols. Individually addressable, the CLM enables each luminaire to be independently controlled and configured to best meet the needs of the facility.

Integrating the CLM with the OSRAM award-winning OPTOTRONIC® Linear Programmable LED Drivers allows OEMs to take full advantage of system compatibility and maximize performance.

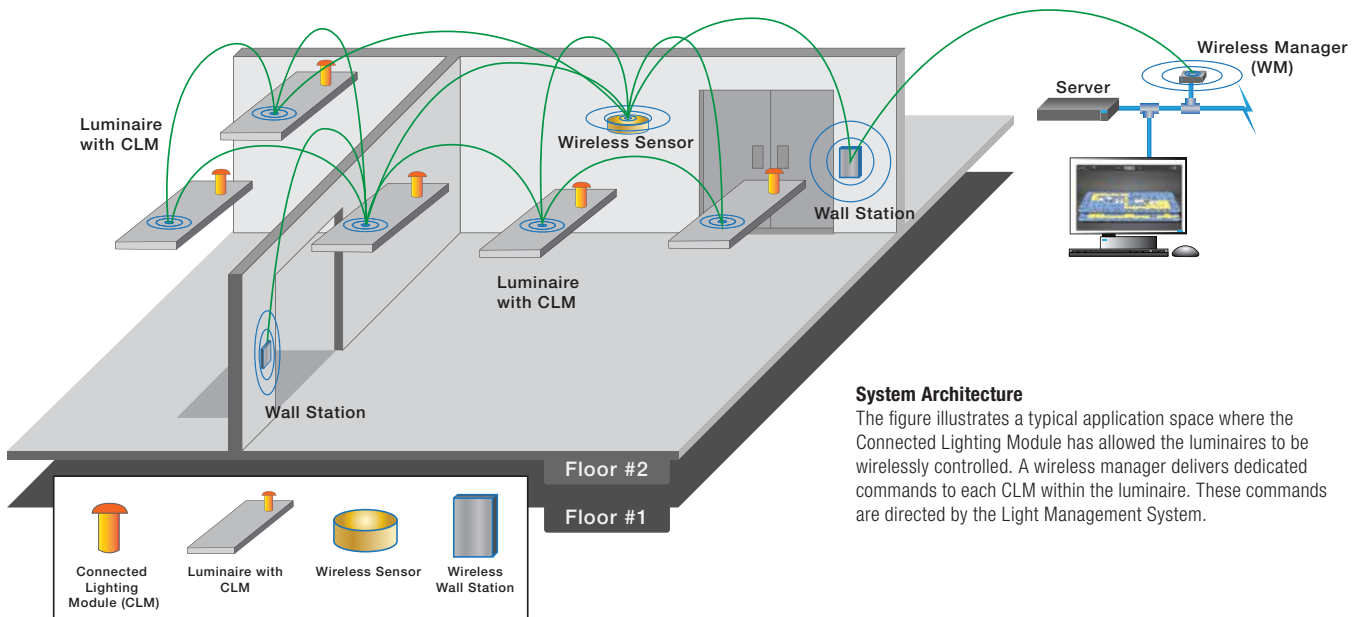
Key Features & Benefits

- Empowers OEMs to convert their existing luminaires to be wireless ready
- Leverage a robust and interoperable network solution to unlock new and exciting consumer-focused lighting applications
- Customize lighting scenes for tailored experiences and tasks
- Adjust light levels dynamically to respond to variable lighting requirements
- The 0-10V dimming interface allows control of single or multiple luminaires in a single space
- Unique form factor is intended for installation into a standard ½" knockout present on virtually every luminaire
- Wireless range: 150' line of sight; 50' through standard walls
- Dedicated IEEE 802.15.4 code of each module makes the commissioning and deployment process easy and efficient

Specifications and Certifications



Wireless Light Management System Architecture



System Architecture

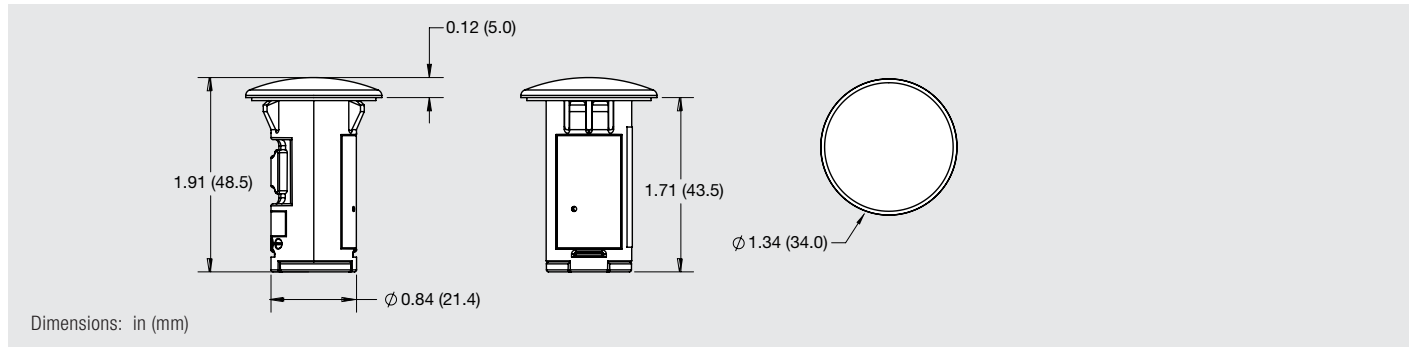
The figure illustrates a typical application space where the Connected Lighting Module has allowed the luminaires to be wirelessly controlled. A wireless manager delivers dedicated commands to each CLM within the luminaire. These commands are directed by the Light Management System.



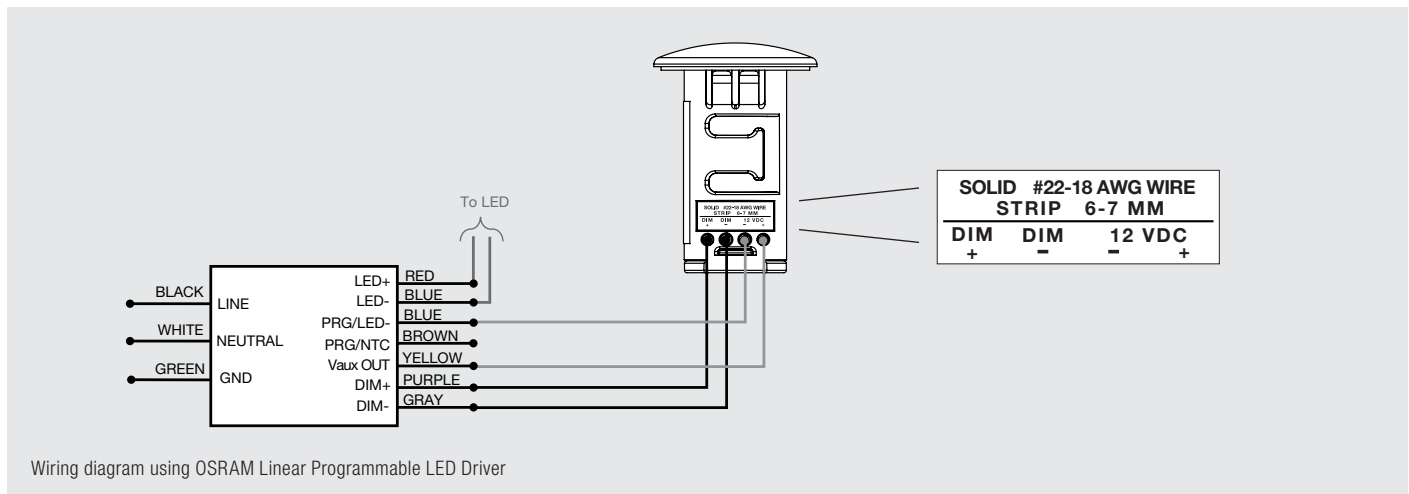
Ordering Information

Item Number	Ordering Description	Communication Network	Dimming Protocol
45678	ZBHA-CLM DIM	ZigBee® Wireless	0-10V

Dimensions



Wiring Diagram



Specifications

- Certification: ZigBee Home Automation (ZHA) 1.2
- ZigBee Profile: ZHA Dimmable Light
- Device Type: Router
- Radio Frequency: 2.4 GHz
- Wireless Range: 150' line of sight, 50' through standard walls
- Input Voltage: 12V_{dc}
- Input Current: Typically < 40mA
- Single 0-10V dimming output (IEC 60929 Annex E). Capable of sinking 3mA (this is equivalent to 10 typical dimming ballasts/drivers)
- Operating temperature range: -40°C (-40°F) to 60°C (140°F)
- Wireless Light Management System compatibility
 - ENCELIUM® Systems by OSRAM
 - ControlScope® by Daintree Networks®
- Safety Approvals
 - Energy Management Equipment (UL 916)
 - Heat and Smoke Release for Air-Handling Spaces (UL 2043)

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