Connected Lighting Module DIM (CLM DIM)

The CLM is designed to bring individual luminaire control to spaces delivering ultimate flexibility to building managers for the life of the space. With controls inherently integrated, it significantly reduces electrical contractor labor hours during installation. For the lighting OEM, it reduces component count and streamlines assembly.

System Compatibility

— Works with the Encelium® Extend Light Management System

— Works with Encelium Edge Wireless Light Management System

Key Features & Benefits

— Significantly reduce electrical contractor labor hours with luminaire integrated lighting controls

— Eliminate power pack and input side relay with built-in dim-to-off functionality optimized for CLM and Led driver

— LED driver must have Dim-to-OFF feature enabled (See LED Driver Configuration section)

— Future-proof the lighting controls for flexible zone modifications as building needs change

— Leverage a robust and interoperable network solution to unlock new and exciting occupant-focused lighting applications

— Customize lighting scenes for tailored experiences and tasks

— Adjust light levels dynamically to respond to variable lighting requirements

— The 0-10 V dimming interface allows control of single or multiple luminaires in a single space

— Unique form factor is intended for installation into a standard 0.5 inch (Pg-7) knockout present on virtually every luminaire

— UL924 Listed for Control of Emergency Lighting

— UL2043 Plenum Rated

Our Brand

ENCELIUM

OSRAM

Specifications

Certification

— ZigBee Home Automation (ZHA) 1.2

ZigBee Profile

— ZHA Dimmable Light

Device Type

— Router

Radio Frequency

— 2.4 GHz

Wireless Range

— 150 ft (45.7 m) line of sight, 50 ft (15.2 m) standard walls

Input Voltage

— 12 VDC

Input Current

— Typically <40 mA

Dimming Output

— Single 0-10V dimming output (IEC 60929 Annex E). Capable of sinking 3 mA (this is equivalent to 10 typical dimming ballasts/drivers)

Operating Temperature

— -40° — 140°F (-40° — 60°C)
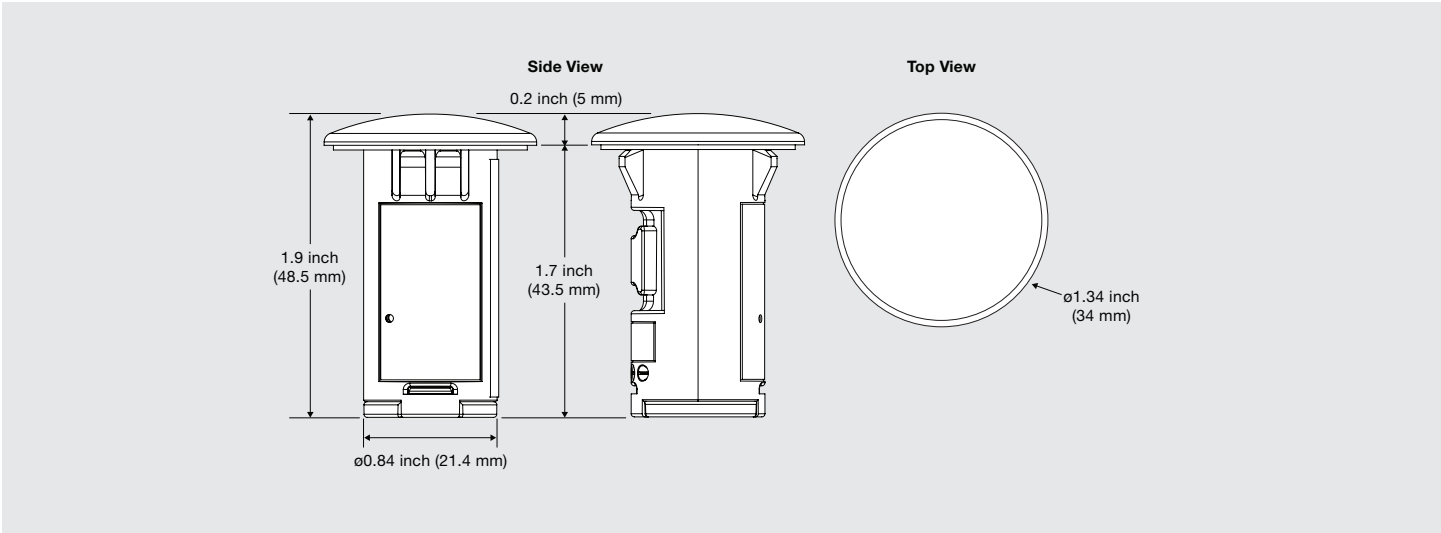
Safety Approvals

— UL916 (Energy Management Equipment)

— UL924 cUL US Listed (Emergency Lighting Equipment)
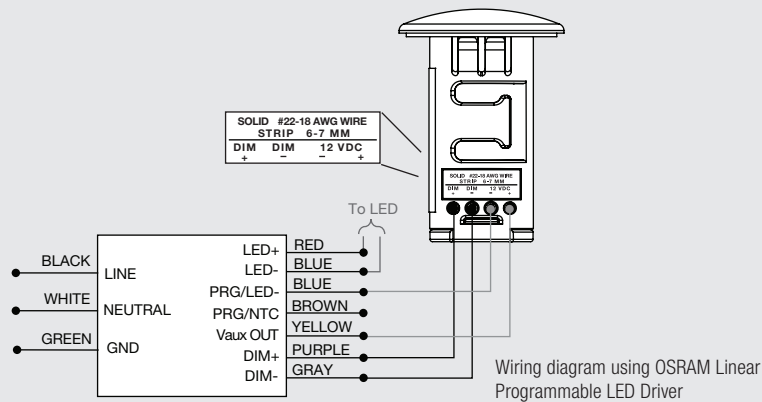
— UL2043 Plenum Rated

Ordering Information

Item Number	Ordering Code	Communication Network	Dimming Protocool
45678*	ZBHA-CLM-DIM-ENC	ZigBee® Wireless Encelium Network	0-10V
58050	ZBHA-CLM DIM	ZigBee® Wireless	0-10V

**45678 will only work with an Encelium Extend or Edge System.

Dimensions

Side View

Top View

0.2 inch (5 mm)

1.9 inch (48.5 mm)

1.7 inch (43.5 mm)

ø1.34 inch (34 mm)

ø0.84 inch (21.4 mm)

Wiring Diagrams

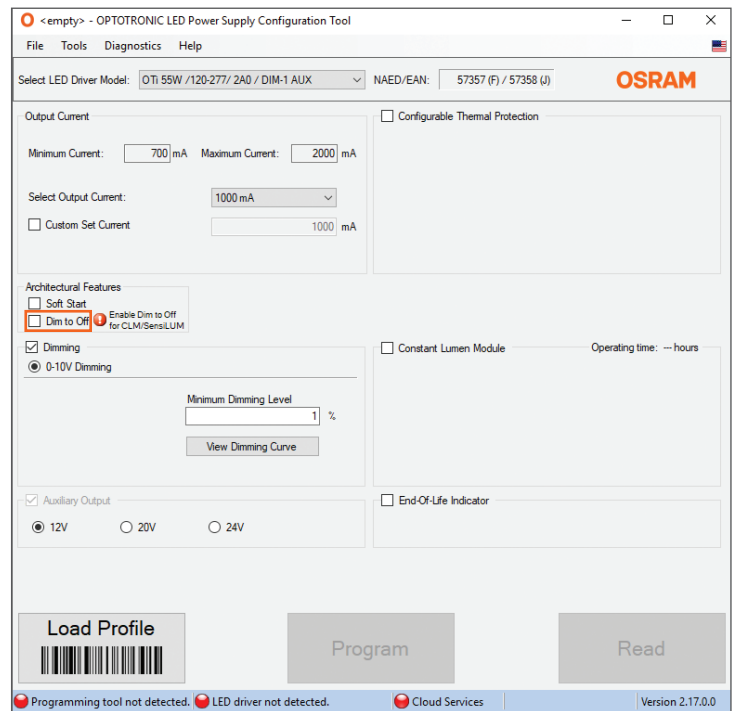Wiring diagram using OSRAM Linear Programmable LED Driver

LED Driver Configuration

Important: The LED driver must posses Dim-to-OFF capability, and it must be enabled when using with CLM DIM.
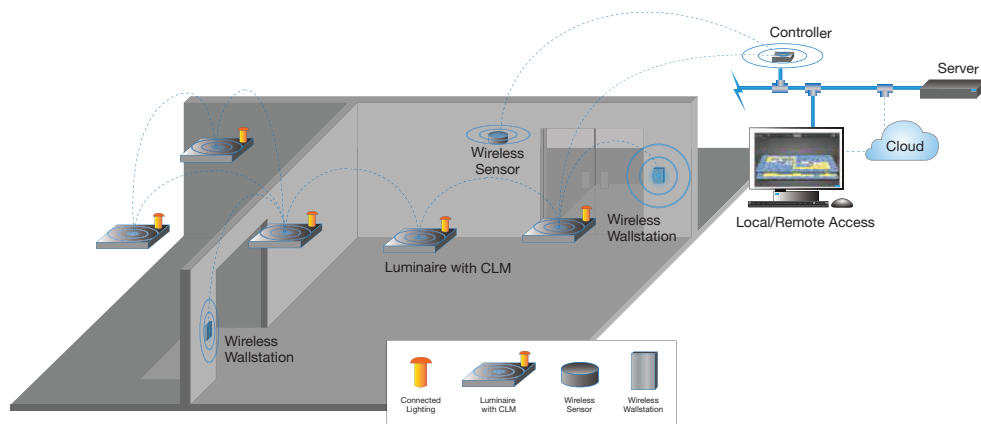
If Dim-to-OFF is not enabled, then the CLM DIM will not be able to turn the light fixture ON/OFF.

If using OPTOTRONIC® LED Power Supplies, the dim-to-off feature **must be enabled** in the programming software. The default state of dim-to-off feature is disabled for out-of-the-box products.

Networked Light Management System Architecture

System Architecture

The Connected Lighting Module (CLM) allows luminaires to be wirelessly controlled. The System Manager sends dedicated commands wirelessly to each CLM enabling individually controlled luminaires. (Shown using Encelium® Extend Light Management System)

Warranty

For warranty details, refer to the full warranty documentation at www.encelium.com.

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