Smart Energy Saving Retrofit with Lumina™ RF Wireless Room Controller System and Philips® InstantFit LED T8 Lamps with EasySmart

Smart and Easy Energy Saving LED and Controls Retrofit

Retrofitting LEDs and installing compatible controls is faster and easier with the Leviton Lumina RF Standalone Room Controller System and Philips InstantFit LED T8 Lamps with EasySmart Technology. In three easy steps, you can have a space configured to meet your unique lighting needs and meet lighting control requirements for IECC, ASHRAE 90.1 and Title 24.

This advanced wireless control system provides a range of options to meet the specific lighting needs of each space by using the Leviton Bluetooth®-enabled Neuron app to configure the system.

SMART AND SIMPLE LED LAMPS AND WIRELESS CONTROLS INSTALLATION

1. Simply replace existing lamps in old fixtures with InstantFit LED T8 lamps with EasySmart—no need to replace existing ballasts and no rewiring needed
2. Install the Lumina RF Keypad Room Controller(DLDNK), optionally install the Lumina RF Wireless Occupancy Sensor (ZSC04), Lumina RF Wireless Photocell (LURPC), and Remote Keypads (DLDNK) for added functionality
3. Configure the system with the Leviton Neuron app and you're done!

The Solution

- **Lumina RF Keypad Room Controller**
  - Acts as the primary user interface and coordinates all the energy management functions within the room; provides the Bluetooth interface for connection to the Neuron app via an Android or iOS smart device; wirelessly configure button operation via the Neuron app

- **Lumina RF Wireless PIR Occupancy Sensor**
  - Controls the load directly, detects occupancy and communicates to and receives commands from the Lumina RF Keypad; wirelessly configure via the Neuron app for occupancy (auto-ON/auto-OFF) or vacancy (manual-ON/auto-OFF) operation

- **Lumina RF Wireless Photocell**
  - Detects light levels and communicates to and receives commands from the Lumina RF Keypad; wirelessly configure via the Neuron app

- **Leviton Blueooth-enabled Neuron App**
  - Wirelessly communicates to the Lumina RF Keypad via Bluetooth to configure, control and monitor the system with dimming, multi-zone daylight harvesting, occupancy or vacancy sensing, manual control, and scene capabilities

- **Philips InstantFit LED T8 Lamps with EasySmart Technology**
  - Converts existing lighting to LED by simply replacing existing lamps; EasySmart technology allows the lamps to wirelessly communicate to the Lumina RF Keypad Room Controller and dim based on user preference or daylight harvesting settings

![Leviton logo]

Lumina RF Standalone Room Controller System Compatibility Chart

Lumina RF Standalone Room Controller System	
Room Controller	DLDNK-01W | DLDNK-02W | DLDNK-04W | DLDNK-08W Lumina RF Keypad Room Controllers*
Compatible Products	
Occupancy Sensors	ZSC04-IxW Lumina RF Wireless Occupancy Sensor
Photocells	LURPC Lumina RF Wireless Photocell*
Remote Keypads	DLDNK-01W | DLDNK-02W | DLDNK-04W | DLDNK-08W Lumina RF Keypad Room Controllers*
Configurator Tool	Neuron App*
Load Control	46645-8 46646-6 46647-4 46648-2 Philips InstantFit LED T8 Lamps with EasySmart Technology**

Ordering Information

Cat. No.	Description
DLDNK-01W	Lumina RF Decora 1-Button multi-function BLE keypad with room controller, 120-277VAC, 50/60Hz, White
DLDNK-02W	Lumina RF Decora 2-Button multi-function BLE keypad with room controller, 120-277VAC, 50/60Hz, White
DLDNK-04W	Lumina RF Decora 4-Button multi-function BLE keypad with room controller, 120-277VAC, 50/60Hz, White
DLDNK-08W	Lumina RF Decora 8-Button multi-function BLE keypad with room controller, 120-277VAC, 50/60Hz, White
ZSC04-IxW	Lumina RF Wireless PIR Occupancy Sensor, 450 sq ft
LURPC-00W	Lumina RF Wireless Photocell
FREE	Leviton Neuron App

Compatible with Philips InstantFit LED T8 Lamps with EasySmart Technology

Product No.	Model No.	Description	Volts	Color Temp. (K)	LED Lifetime
46645-8	9290012811	14T8/48-3000 IF 10/1 EasySmart	120/277	3000	50,000
46646-6	9290012812	14T8/48-3500 IF 10/1 EasySmart	120/277	3500	50,000
46647-4	9290012813	14T8/48-4000 IF 10/1 EasySmart	120/277	4000	50,000
46648-2	9290012814	14T8/48-5000 IF 10/1 EasySmart	120/277	5000	50,000

* Not compatible with other Lumina RF Gateway products. Contact Leviton for more information.
** Sold separately. Refer to www.philips.com/easysmart for additional product information.

Leviton Manufacturing Co., Inc. Energy Management, Controls and Automation

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Visit our website at: www.leviton.com/philipseasysmart

Lumina™ RF Keypad Room Controller
Use with Lumina RF Standalone Room Controller System

DESCRIPTION

The Leviton Lumina™ RF Decora® Keypad Room Controller (DLDNK) is the primary user interface for a Lumina RF Standalone Room Controller System, combining both familiar pushbutton control and energy management business logic into line voltage-powered wireless communication devices. The Lumina RF Keypad manages a room by coordinating activities of all devices within the space.

The Keypad integrates with the Lumina RF Occupancy Sensor (ZSC04/ZSC15) and Lumina RF Photocell (LURPC) to create an advanced intelligent lighting system that meets lighting control requirements for IECC, ASHRAE 90.1 and Title 24. Dimming, multi-zone daylight harvesting, occupancy and vacancy sensing, manual control, and scene control are configured using the Bluetooth®-enabled Leviton Neuron™ app.

The Keypad also provides the primary interface between the smartphone/tablet commissioning and control device and the Lumina RF system. Wirelessly configure, control, monitor and provision the Lumina RF Standalone Room Controller System using the Bluetooth®-enabled Neuron app designed for an Android or iOS smart phone and other compatible devices within a 30' range.
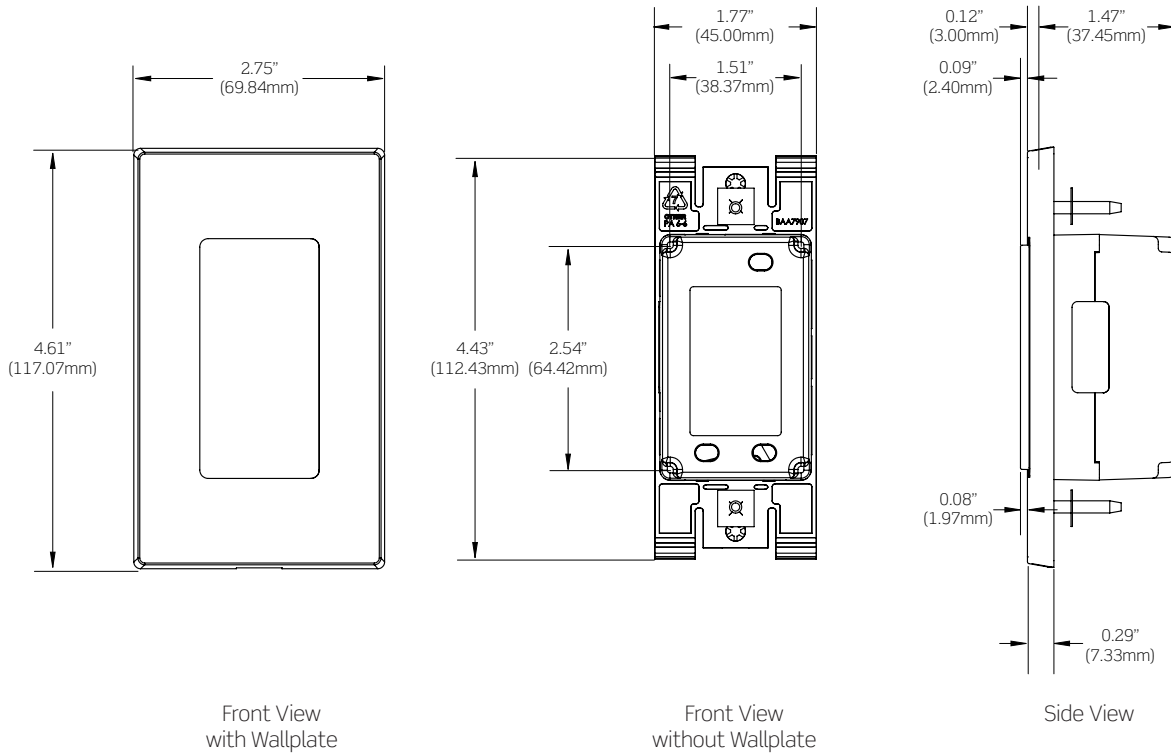
APPLICATIONS

- Control of Philips® InstantFit LED T8 Lamps with EasySmart Technology*
- Daylight harvesting with occupancy and light level sensing
- Room entry stations or remote (3-way) switch for use at other entry doors
- Coordination of energy management devices in a space
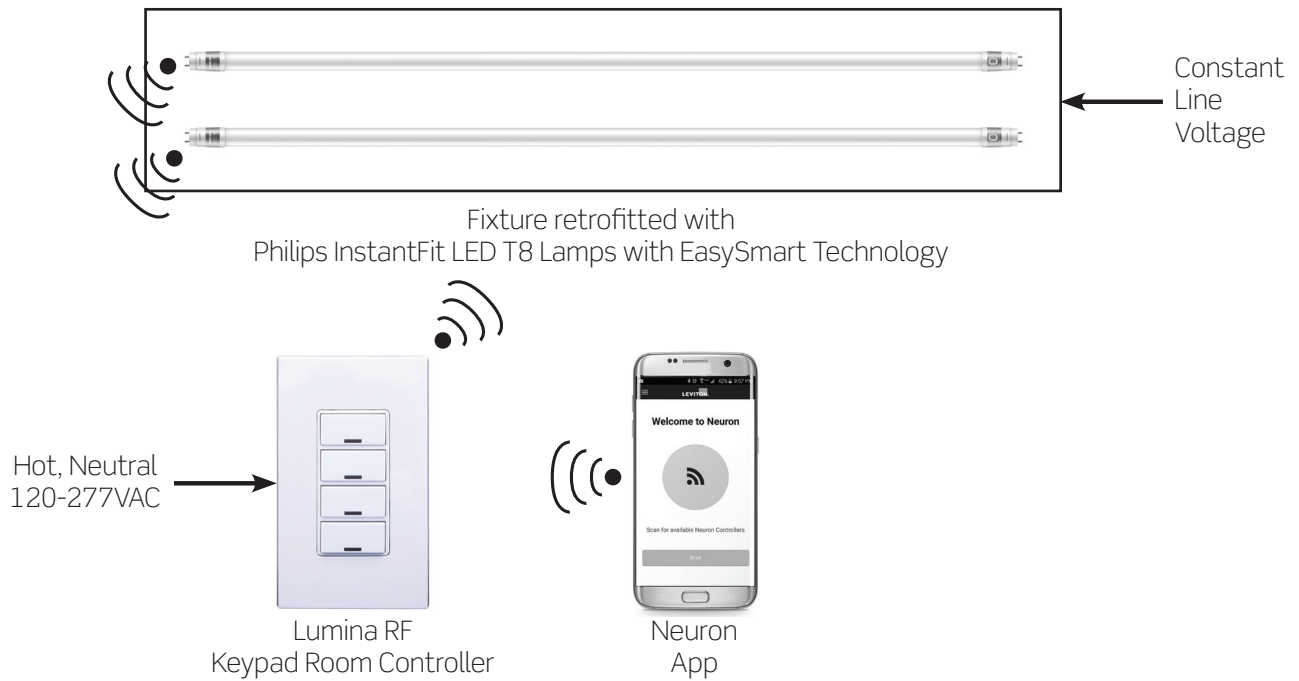
FEATURES

- Bluetooth interface for connection to any Android or iOS devices with Bluetooth 3.0 or later interface—download Leviton Neuron app at Leviton.com/apps
  - Configuration
  - Control
  - Status monitoring
- Every node is a repeater
- Line voltage powered
- Implements energy management business logic for Lumina RF devices—Lumina RF Occupancy Sensors (ZSC04/ZSC15) and Lumina RF Photocell (LURPC)
- Customizable buttons that can be programmed through the Leviton Neuron app to perform a variety of functions:
  - Room ON/OFF
  - Group ON/OFF
  - Scene
  - Any fixture at any level
  - Fade time
  - Preset groups
  - Toggle
- Button LEDs monitor and track actual room status
- Decora aesthetic
- Available in 1-, 2-, 4- and 8-button models
- LED status indicators
- Multiple operating modes: toggle maintained, toggle momentary and preset

* For use in a Lumina RF Standalone Room Controller System only. Philips InstantFit LED T8 Lamps with EasySmart Technology are compatible only with Lumina RF Keypad Room Controllers (DLDNK), Lumina RF Occupancy Sensor (ZSC04), Lumina RF Photocell (LURPC) and the Neuron App.

DIMENSIONS

2.75"
(69.84mm)

4.61"
(117.07mm)

1.77"
(45.00mm)

1.51"
(38.37mm)

4.43"
(112.43mm)

2.54"
(64.42mm)

0.12"
(3.00mm)

1.47"
(37.45mm)

0.09"
(2.40mm)

0.08"
(1.97mm)

0.29"
(7.33mm)

Front View
with Wallplate

Front View
without Wallplate

Side View

WIRING DIAGRAM

Constant
Line
Voltage

Fixture retrofitted with
Philips InstantFit LED T8 Lamps with EasySmart Technology

Hot, Neutral
120-277VAC

Lumina RF
Keypad Room Controller

Welcome to Neuron

Scan for available Neuron Controllers

Neuron
App

Lumina™ RF Keypad Room Controller

LUMINA RF STANDALONE ROOM CONTROLLER SYSTEM COMPATIBILITY CHART

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SPECIFICATIONS

ELECTRICAL	
Input Voltage	120-230-277VAC , 50/60 Hz, 40mA
Output	None—wireless communication only
Communication	2.4 GHz wireless mesh network Up to 75' between Lumina RF devices, mesh network—all devices are repeaters Up to 30' between Keypad and Bluetooth phone or tablet 75' between Keypad and first fixtures
Connections	16 AWG (Power connections)
ENVIRONMENTAL	
Operating Temperature Range	32° F to 122° F (0° to 50° C)
Storage Temperature Range	-4° to 185° F (-20° to 85° C)
Relative Humidity	0 to 90% non-condensing, for indoor use only
OTHER	
Listings	Meets energy code requirements for IECC, ASHRAE 90.1 and Title 24; DLC Advanced Lighting Controls Compliant, QPL Listing and Certification Pending, UL/cUL Listed, UL924, NOM Certified, RoHS 2 Compliant, and IEC61000-4-2, Complies with IEEE 802.15.4, UL916 standard for energy management equipment
Radio Certifications	FCC certified for wireless communication (U.S.), FCC ID: W7Z-ZICM357SP0, IC Certified (Canada), IC ID: 854A-ZICM357SP0
Warranty	Limited 5-Year

*   Not compatible with other Lumina RF Gateway products. Contact Leviton for more information.
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Lumina™ RF Keypad Room Controller

ORDERING INFORMATION

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DLDNK-02W	Lumina RF Decora 2-Button multi-function BLE keypad with room controller and LED feedback functionality, 120-277VAC, 50/60Hz, White
DLDNK-04W	Lumina RF Decora 4-Button multi-function BLE keypad with room controller and LED feedback functionality, 120-277VAC, 50/60Hz, White
DLDNK-08W	Lumina RF Decora 8-Button multi-function BLE keypad with room controller and LED feedback functionality, 120-277VAC, 50/60Hz, White

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