aleo
LED LIGHTING

Project	
Notes	
Type	Date
Cat. No.	

LPR-BL™ (SR/RC) Series

Slim LED Panel Retrofit Kit - Sensor Ready

DESCRIPTION

The Aleo LPR-BL™ (SR/RC) Series Slim LED Panel Retrofit Kit delivers industry-leading performance with deep energy savings and continuous dimming. Easy and quick installation reduces labor cost and optimizes ROI. The retrofit kit eliminates the need to replace existing luminaire housing, which reduces install time and disposal/removal costs. The slim profile, modern design produces pleasant, uniform and low-glare illumination, enhancing spaces in various applications.

APPLICATIONS

Retail, schools, offices, healthcare, and other various commercial applications .

LPS-BL™ UX Series

2x4 36W / 30W / 23W

2x2 25W / 22W / 18W

1x4 25W / 22W / 18W

Specification Features

Rated Life 75,000
Limited Warranty 7-Years
Efficacy Over 125 LPW
Continuous Dimming

CONTINUOUS DIMMING
0-10V Continuous

Quick ship

LPR-BL-24UX-36/8CT G5 (SR/RC)
LPR-BL-22UX-25/8CT G5 (SR/RC)
LPR-BL-14UX-25/8CT G5 (SR/RC)

Construction

Simple construction with minimal parts allows for easy handling and installation. Solid rigid frame, post-painted matte white finish for strength and durability. Low profile design optimizes shipping, storage, and handling.

Optical System

Back-lit optics produces soft balanced, comfortable luminance for productive spaces. Diffuser lens reduces glare and improves occupant comfort while maintaining high efficiency emission.

Certification

UL Classified. All components have UL certification. DLC Listed.

Warranty

7-year Limited Warranty. See warranty documentation for more information.

Electrical

Luminaire utilizes high-efficacy LED packages maintained at cool temperatures for long life, high efficacy. Reliable driver features continuous dimming. Universal voltage (120-277V) for convenient installation.

Installation / Mounting

Installs in most standard T-Bar ceiling grid systems. Retrofit kit fits within troffer and ceiling T-bar grid, eliminating need to remove existing fixture housing. Hinged door retrofit kit design.

Controls / Dimming

Continuous dimming (0-10V) comes standard. Suitable for use with dimmers, sensors, daylight harvesting and other control strategies to achieve deeper energy-savings and code compliance.

Field-Adjustable CCT / Wattage

Increased versatility and reduced inventory burden. Wattage and Color Temp. can be adjusted in the field by selecting (3) different wattages and (3) different CCTs via switch on driver.

Ordering Information

Example: LPR-BL-22UX-25/8CT G5 (SR/RC)

LPR-BL	22	UX	25	8	CT	[Blank]	[Blank]
Series **LPR-BL** LED Panel Retrofit Kit - Back Lit	**Form Factor** **24** 2'x4' **22** 2'x2' **14** 1'x4'	**Lumen Package** **UX** Field Adjustable	**Nominal Max Wattage** **2'x4'** **36** 36W / 30W / 23W **2'x2'** **25** 25W / 22W / 18W **1'x4'** **25** 25W / 22W / 18W * Utilize 3-way switch to select	**CRI** **8** 80+	**Color Temp** **CT** Field Adjust. 3500K 4000K 5000K * Utilize 3-way switch to select	**Input Voltage** **Blank** 120V-277V	**Dimming** **Blank** 0-10V Continuous Dimming

[Blank]	[Options]	
Sensor **(SR/RC)** Sensor Ready with Sensor Receptacle	**Emergency Backup**[1] **EM700** 700lm	**Controls** See Pg. 3 for details on sensors and controls (Sensor Sold Separately)

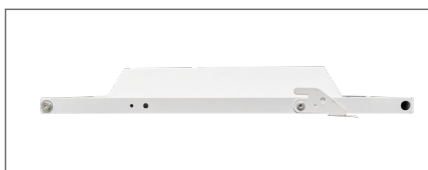**Specifications and Dimensions subject to change without notice.**

LPR-BL-SR-RC_Spec_rev03 **Aleo Lighting, Inc.** I www.aleolighting.com I Ph: 877-358-8825

Performance Summary

Input Voltage	120V-277V
Input Frequency	50/60 Hz
Rated Wattage	See Performance Table
Delivered Lumens	See Performance Table
Efficacy	> 125 LPW (typ.)
CRI	83+, R9 > 0
Available CCT[2]	3500, 4000K, 5000K
Rated Life	75,000 hours
Power Factor	> 0.9
THD	< 20%
Dimming	0-10V Continuous (10-100%)
Operating Temp.	-20°C to 50°C

Existing Fixture

LPR-BL Retrofit Kit
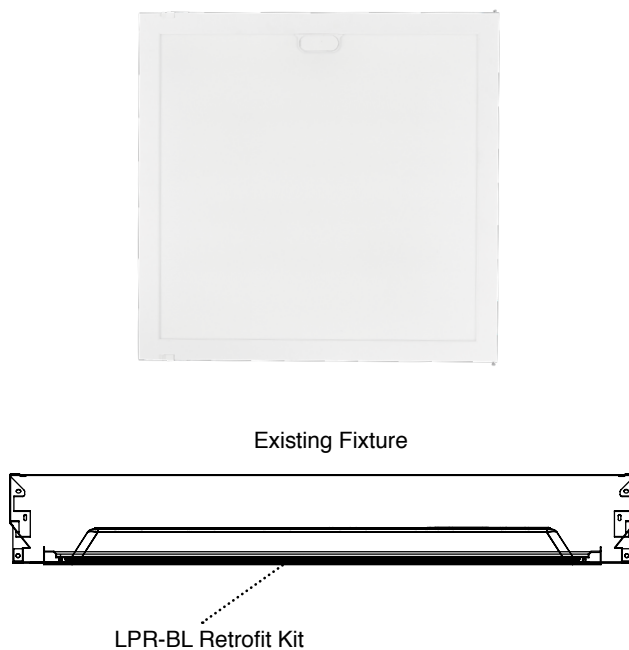
Sensors Options

Catalog No.	Description	Ordering	Shipping	Remote Control	Sensor Mounting
SPIR-OSDL/BT-PP3-DC-310	AleoBlue Multi-level Wireless Bluetooth Occ Sensor w/ Daylight	Order and Ship Separately	Field Install	AleoBlue App	Snap-in
SPIR-OSDL/BTEZ-PP3-DC-121	SimplBlue Multi-level Wireless Bluetooth Occ Sensor w/ Daylight	Order and Ship Separately	Field Install	SimplBlue App	Snap-in

NOTES:

[1]   IMPORTANT: THE BATTERY MUST BE RECHARGED EVERY THREE (3) MONTHS. IF NOT RECHARGED ACCORDINGLY, BATTERY MAY FAIL AND VOID WARRANTY

[2]   Typical color consistency. May vary or be changed.

Specifications and Dimensions subject to change without notice.

LPR-BL-SR-RC_Spec_rev03   **Aleo Lighting, Inc.** l www.aleolighting.com l Ph: 877-358-8825

Performance Data

Form Factor	Catalog No.	Nominal Wattage	Color Temperature	Lumens (lm)	Wattage (W)	Efficacy (lm/W)
2'x4'	LPR-BL-24UX-36/8CT G5 (SR/RC)	23	3500K	3,228	21.9	147.4
			4000K	3,356	21.0	159.8
			5000K	3,258	22.0	148.1
		30	3500K	4,147	29.0	143.0
			4000K	4,327	27.9	155.1
			5000K	4,193	29.2	143.6
		36	3500K	5,122	37.2	137.7
			4000K	5,349	35.8	149.4
			5000K	5,190	37.5	138.4
2'x2'	LPR-BL-22UX-25/8CT G5 (SR/RC)	18	3500K	2,304	18.0	128.0
			4000K	2,423	17.2	140.9
			5000K	2,331	18.1	128.8
		22	3500K	2,721	21.8	124.8
			4000K	2,856	20.8	137.3
			5000K	2,748	21.9	125.5
		25	3500K	3,050	25.0	122.0
			4000K	3,210	23.9	134.3
			5000K	3,082	25.1	122.8
1'x4'	LPR-BL-14UX-25/8CT G5 (SR/RC)	18	3500K	2,315	18.1	127.9
			4000K	2,465	17.3	142.5
			5000K	2,410	18.3	131.7
		22	3500K	2,721	21.8	124.8
			4000K	2,905	20.9	139.0
			5000K	2,840	22.1	128.5
		25	3500K	3,060	25.1	121.9
			4000K	3,257	24.0	135.7
			5000K	3,175	25.3	125.5

DLC QPL Data

QPL Model No.	Product ID	Technical Req.	Classification	Primary Use
LPR-BL-14UX-25/8CT G5 [-YYXX/ZZ]	S-JDYCWB	5.1	Premium	Integrated Retrofit Kits for 1x4 Luminaires
LPR-BL-22UX-25/8CT G5 [-YYXX/ZZ]	S-L1F1HQ	5.1	Premium	Integrated Retrofit Kits for 2x2 Luminaires
LPR-BL-24UX-36/8CT G5 [-YYXX/ZZ]	S-QP0R9F	5.1	Premium	Integrated Retrofit Kits for 2x4 Luminaires

DLC LISTED PREMIUM

Specifications and Dimensions subject to change without notice.

LPR-BL-SR-RC_Spec_rev03   **Aleo Lighting, Inc.** l www.aleolighting.com l Ph: 877-358-8825

Product **Dimensions**

LPR-22

23.9"
(606mm)

23.9"
(606mm)

2.2"
(56.6mm)

LPR-24

23.9"
(606mm)

2.2"
(56.6mm)

47.9"
(1216mm)

LPR-14

11.9"
(302mm)

47.9"
(1216mm)

2.2"
(56.6mm)

Specifications and Dimensions subject to change without notice.

LPR-BL-SR-RC_Spec_rev03   **Aleo Lighting, Inc.** I www.aleolighting.com I Ph: 877-358-8825
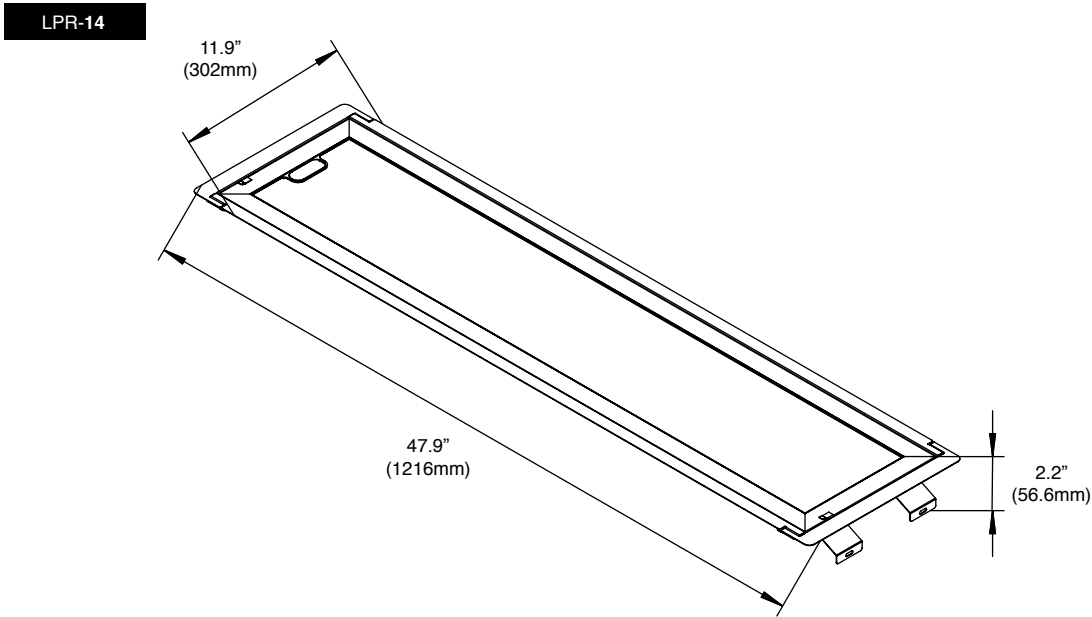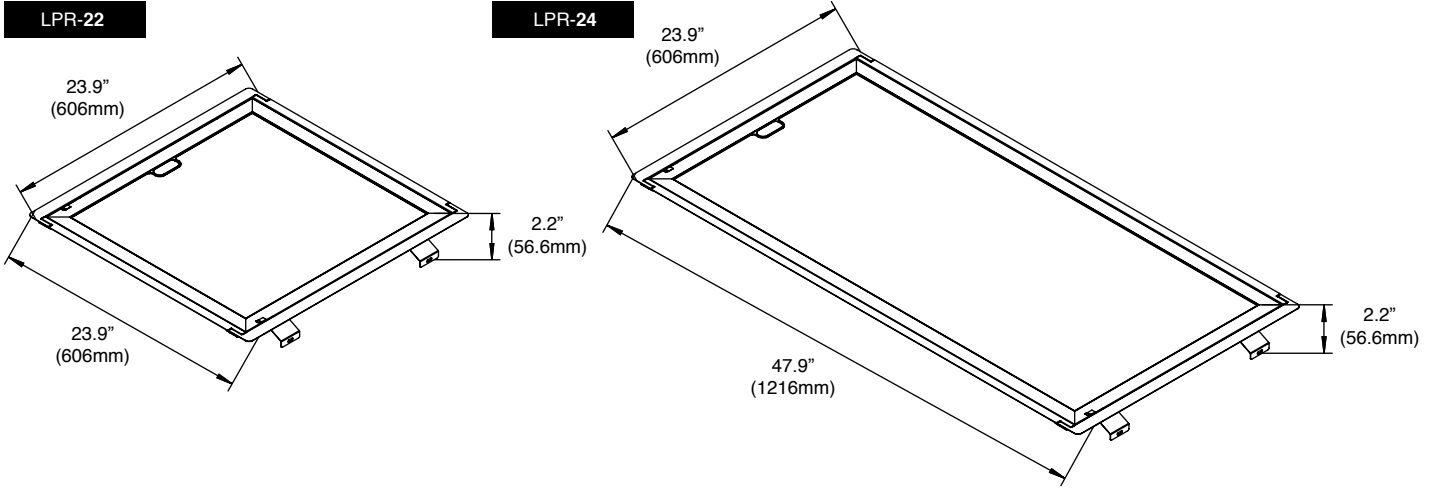
AleoBlue Wireless Bluetooth Controls

The AleoBlue is a complete solution for managing connected lighting systems using a Bluetooth Mesh lighting network. This enables seamless implementation of simple to complex lighting control scenarios without specialized training or lighting control engineering expertise.

DLC NLC Qualified.

Features and **Benefits**

- Lighting Zones / Grouping
- Manual control of individual lights
- On Power up Behavior
- Zone Linking
- Vacancy Sensing
- Per fixture Daylight Control
- Per zone Daylight Control

Scheduling	High and Low End Trim
	20% 60% 90%

Scenes	Occupancy Sensing

- Optimized Energy Consumption
- Less Hassle with On-Site Adjustments
- More Savings
- Increased Safety
- More Flexibility
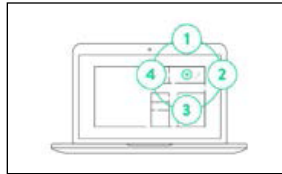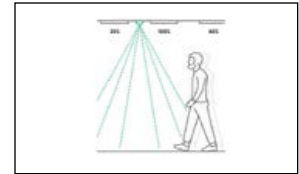
- Intuitive and user-friendly web and iOS apps
- No specialized training or lighting control expertize required
- Optimized for commercial spaces of any size
- No additional wiring or central control box
- Customizable lighting control parameters
- Future proof with Software Updates
- Multiple Zone Configurable
- Built-In Scenarios + Customization

Bluetooth Mesh Technology Advantages

The fastest low-power communication

Scalability to thousands of devices

The most advanced encryption standards as well as the cutting-edge device authentication
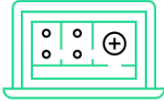
No single point of failure (no central device)

Compatibility with a widely available devices (smart phones & tablets – both with Bluetooth 4.0 and Bluetooth 5)

Specifications and Dimensions subject to change without notice.

LPR-BL-SR-RC_Spec_rev03   **Aleo Lighting, Inc.** l www.aleolighting.com l Ph: 877-358-8825
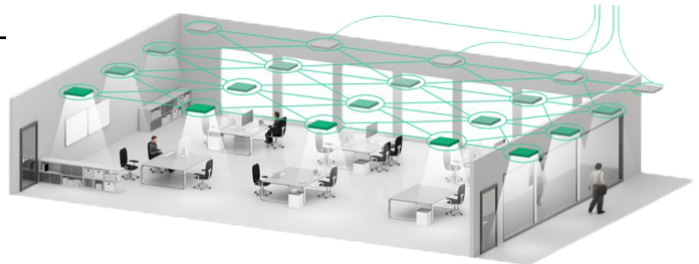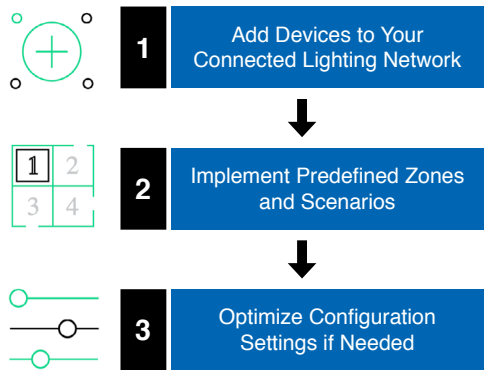
Planning

Remote preparation of a retrofit project with the use of our web app. Uploading floor plans, defining individual lighting zones and choosing lighting control scenarios.

1 Import Floor Plans

2 Define Individual Lighting Zones

3 Specify Desired Lighting Control Scenarios
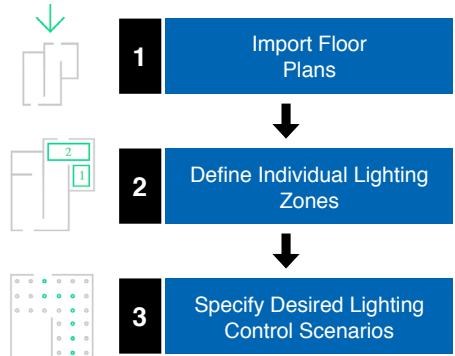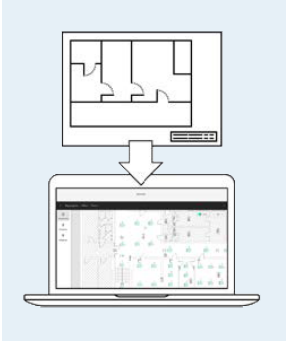
Implementation

Adding lighting devices to the Bluetooth mesh network on-site with the use of an iOS app.

Customization and calibration of lighting control parameters during and after the commissioning process. Defining scenes for specific working activities.

1 Add Devices to Your Connected Lighting Network

2 Implement Predefined Zones and Scenarios

3 Optimize Configuration Settings if Needed

Provisioning / Configurations

The Bluetooth mesh Node is in the Unprovisioned Mode until it is provisioned by a "Provisioner", which typically is a smart phone with a Bluetooth mesh compatible app.

Ordering Information

Wireless Bluetooth Occupancy Sensor
Model: SPIR-OSDL/BT-PP3-DC-310

AleoBlue, Kinetic Powered Single-Rocker Switch
Model: WM-KN-DMSR/BT-200

Specifications and Dimensions subject to change without notice.

LPR-BL-SR-RC_Spec_rev03   **Aleo Lighting, Inc.** I www.aleolighting.com I Ph: 877-358-8825

Lighting Control Scenarios

Multiple lighting control scenarios are available once the Bluetooth mesh Node is provisioned. At each scenario, duration, fade time and target brightness can be configured at any time with the iOS app.
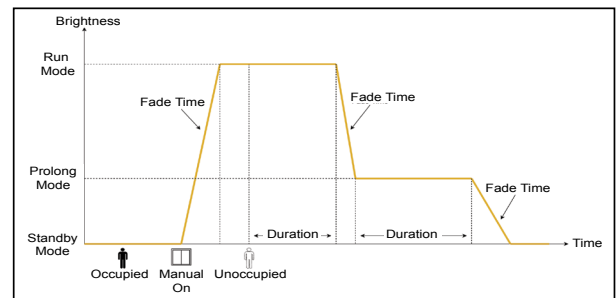

Mode / Scenario	Wireless Switch	Occupancy Sensor	Ambient Light Sensor
Unprovisioned Mode	-	-	-
Switch	On / Off / Scenes	-	-
Occupancy	On / Off / Scenes	Auto On / Off	-
Vacancy	On / Off / Scenes	Auto Off	-
Occupancy with Daylight Harvesting	On / Off / Scenes	Auto On / Off	Enabled
Vacancy with Daylight Harvesting	On / Off / Scenes	Auto Off	Enabled

Occupancy Scenario
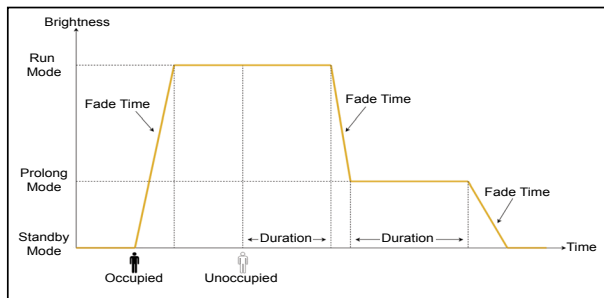
Vacancy Scenario
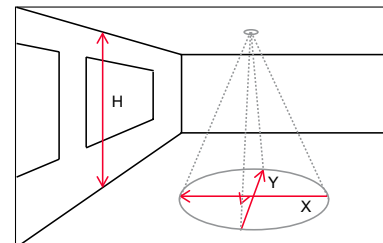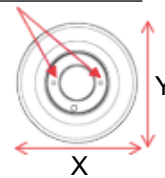

Occupancy Scenario - with Daylight Harvesting
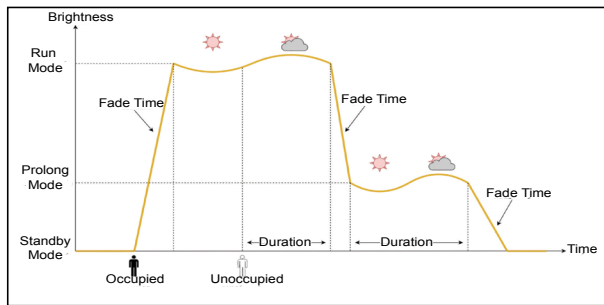
Occupancy Scenario with Manual Override
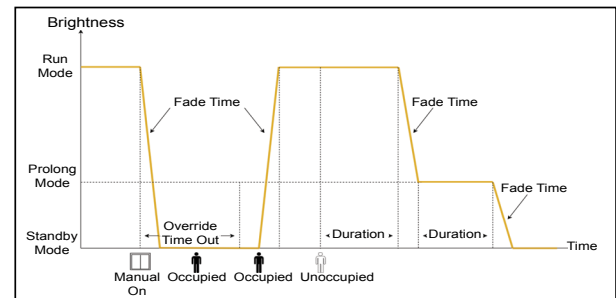
Occupancy Detection Pattern

H	X	Y
7.9' (2.4m)	16.4' (5.0m)	16.4' (5.0m)
8.9' (2.7m)	18.4' (5.6m)	18.4' (5.6m)
9.8' (3.0m)	20.3' (6.2m)	20.3' (6.2m)

Orientation Indicators
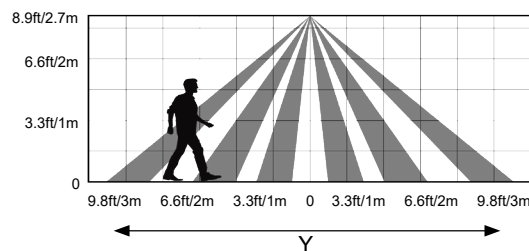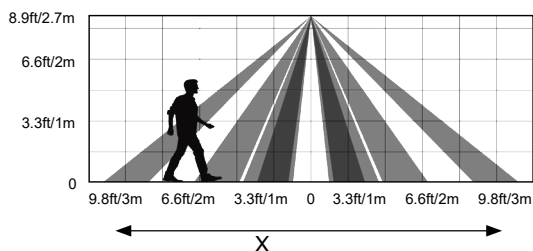
Aleo Lighting, Inc.
www.aleolighting.com
10988 Bloomfield Ave.
Santa Fe Springs, CA 90670
Ph: 877-358-8825

aleo™
LED LIGHTING