

Project	
Notes	
Type	Date
Cat. No.	

## LTR™ SR/RC Series

## LED Troffer Retrofit Kit - Sensor Ready

### DESCRIPTION

The Aleo LTR™ (SR/RC) Series Troffer Retrofit Kit delivers industry-leading Versatility 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 precision-formed diffuser produces comfortable and pleasant illumination, enhancing productive spaces in various applications.



### APPLICATIONS

Provides architectural aesthetics for retail, schools, offices, healthcare, and other various commercial applications.



### Specification Features

#### Construction

Simple construction with minimal parts allows for easy handling and installation. Luminaire features matte white durable finish.

#### Optical System

Reflector systems features highly reflective coating and delivers 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. UL Class 2. Driver: SCP, OTP, OVP protection, FCC Part 15 Class B, UL8750 Class 2.

#### 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. Comes equipped with luminaire quick-disconnect.

#### 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.

#### Installation / Mounting

Installs in most troffer luminaires. Retrofit kit fits within troffer and ceiling T-bar grid, eliminating need to remove existing fixture housing.

#### 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.

### LTR Series

2x2 20W / 25W / 30W

2x4 25W / 30W / 34W

Rated Life 75,000 hours

Limited Warranty 7-years

Efficacy Up to 130 LPW

Continuous Dimming



### Ordering Information

LTR-24-UXL/8CT G6-HD (SR/RC)

LTR	24	UXL	8	CT	[Blank]
<b>Series</b> LTR LED Troffer Retrofit Kit	<b>Form Factor</b> 22 2'x2' 24 2'x4'	<b>Lumen Package</b> UXL Field Adjustable 2'x2' 20W / 25W / 30W 2'x4' 25W / 30W / 34W	<b>CRI</b> 8 83+	<b>Color Temp</b> CT Field Adjust. 3500K 4000K 5000K <small>* Utilize 3-way switch to select</small>	<b>Design</b> HD Hinged Door Design
[Blank]	[Blank]	Options			
<b>Sensor (SR/RC)</b> Sensor Ready with sensor receptacle	<b>Dimming</b> Blank 0-10V Continuous Dimming	<b>Controls</b> See Pg. 2 for <b>Ordering Details on sensors and controls</b> (Sensor Sold Separately)	<b>Emergency Backup<sup>1</sup></b> EM700 700lm EM1400 1400lm	<b>Accessories</b> -AH Air Handling	<b>Designation</b> BAA Buy American Act Compliant BABAA Build America, Buy America Act Compliant

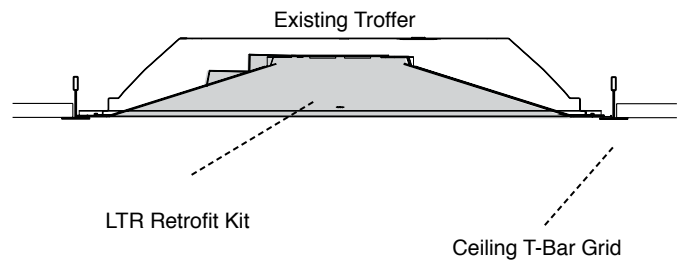
Performance Summary

Input Voltage	120V-277V
Input Frequency	50/60 Hz
Rated Wattage	See Performance Table
Delivered Lumens	See Performance Table
Efficacy	> 130 LPW (typ.)
CRI	83+, R9 > 0
Available CCT <sup>1</sup>	3500K / 4000K / 5000K
Color Consistency <sup>2</sup>	5-step MacAdam Ellipse
Rated Life	75,000 hours
L70 <sup>3</sup>	> 54,000 hours
Power Factor	> 0.9
THD	< 20%
Dimming	0-10V Continuous (10-100%)
Operating Temp	-20°C to 50°C

Sensor Ready Quick Connect



Mounting Information



Sensors Options



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

BAA and BABAA Compliant



**BAA - Buy America Act Compliant**

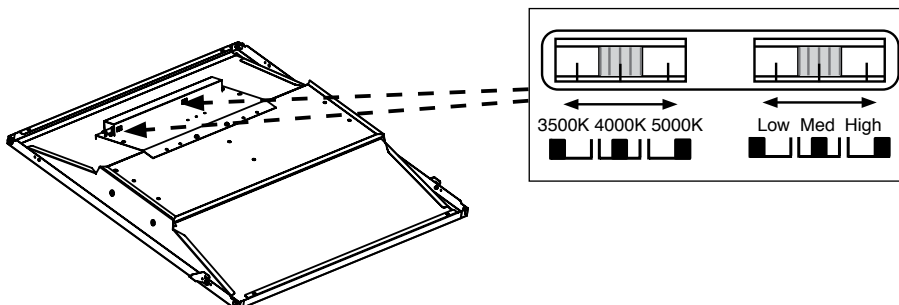
Complies and Qualifies for projects requiring Buy America Act (BAA) compliant product

**BABAA - Build America, Buy America Compliant**

Complies and Qualifies for projects requiring Build America, Buy America Act (BABAA) compliant product

<sup>\*</sup>Note: BAA and BABAA product will require lead times approximately ranging from 12-18 weeks. Contact your Aleo representative for more information

Field-Adjustable CCT & Wattage



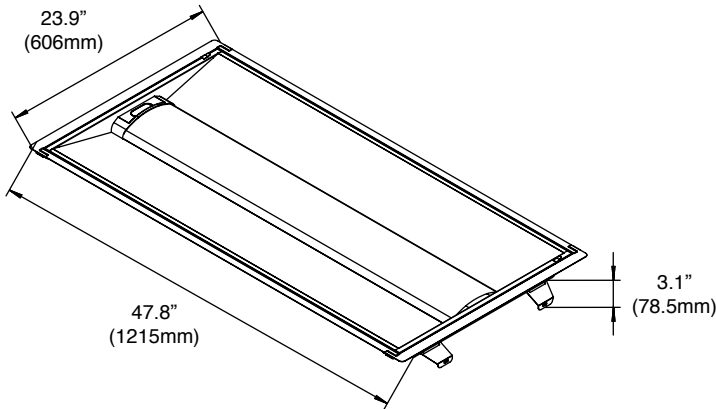
<sup>1</sup> IMPORTANT: THE BATTERY MUST BE RECHARGED EVERY THREE (3) MONTHS. IF NOT RECHARGED ACCORDINGLY, BATTERY MAY FAIL AND VOID WARRANTY

Performance Data

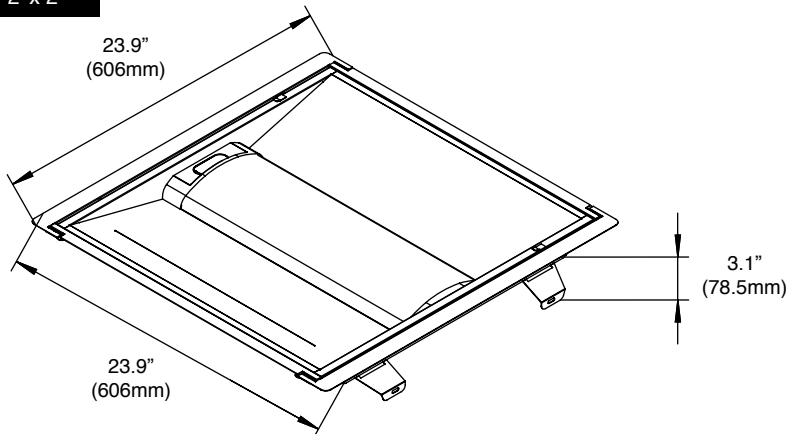
Form Factor	Catalog No.	Rated Wattage (W)	3500K		4000K		5000K	
			Delivered Lumens (lm)	Efficacy (lm/W)	Delivered Lumens (lm)	Efficacy (lm/W)	Delivered Lumens (lm)	Efficacy (lm/W)
2' x 2'	LTR-22-UXL/8CT G6-HD (SR/RC)	20	2680	134	2880	144	2700	135
		25	3275	131	3525	141	3300	132
		30	3810	127	4110	137	3840	128
2' x 4'	LTR-24-UXL/8CT G6-HD (SR/RC)	25	3525	141	3800	152	3625	145
		30	4140	138	4470	149	4260	142
		34	4590	135	4964	146	4726	139

Product Dimensions

2' x 4'



2' x 2'





## AleoBlue Wireless Bluetooth Controls

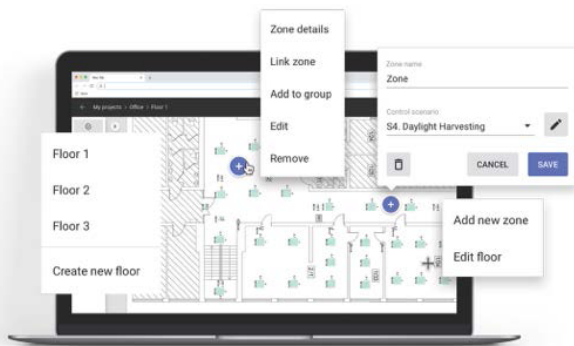


The AleoBlue is a complete solution for managing connected lighting systems using a Bluetooth Mesh lighting network. This enables seamless implementation of simple to complex lighting control scenarios without specialized training or lighting control engineering expertise.

DLC NLC Qualified.

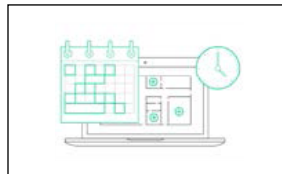
### Features and Benefits

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

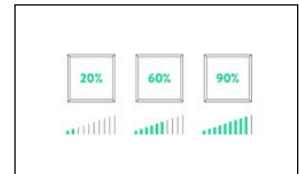


- Optimized Energy Consumption
- Less Hassle with On-Site Adjustments
- More Savings
- Increased Safety
- More Flexibility

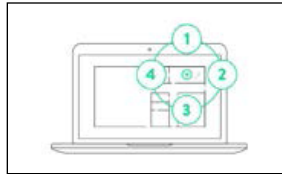
#### Scheduling



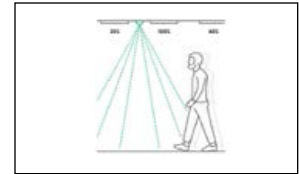
#### High and Low End Trim



#### Scenes



#### Occupancy Sensing



- Intuitive and user-friendly web and iOS apps
- No specialized training or lighting control expertise 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



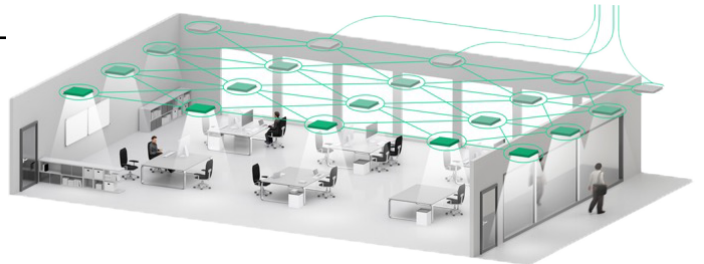
The most advanced encryption standards as well as the cutting-edge device authentication

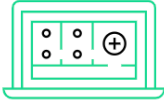


No single point of failure (no central device)



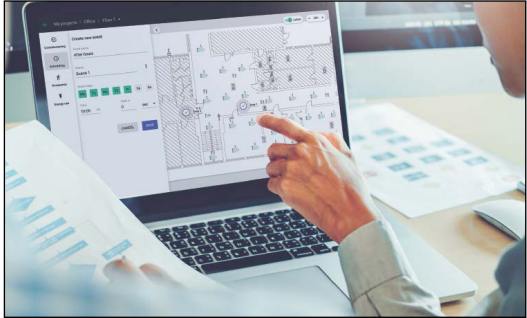
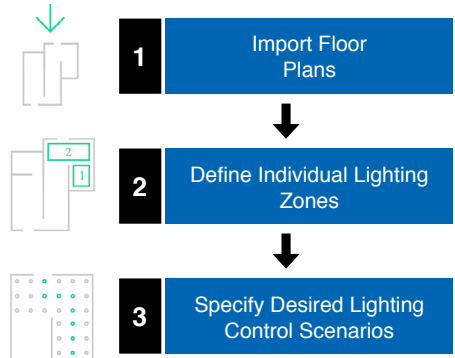
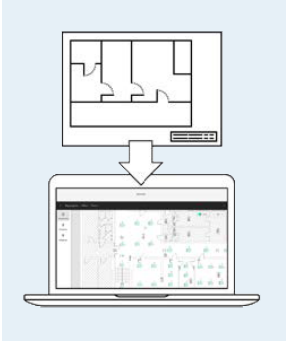
Compatibility with a widely available devices (smart phones & tablets – both with Bluetooth 4.0 and Bluetooth 5)





**Planning**

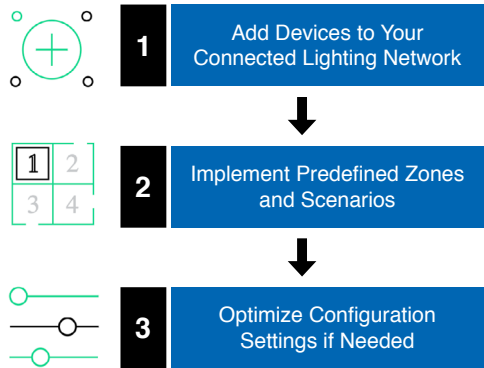
Remote preparation of a retrofit project with the use of our web app. Uploading floor plans, defining individual lighting zones and choosing lighting control scenarios.



**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.



**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

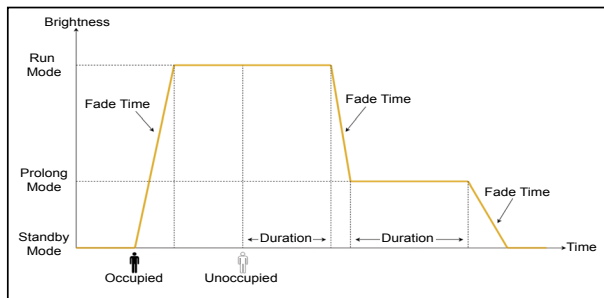
## Lighting Control Scenarios

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.

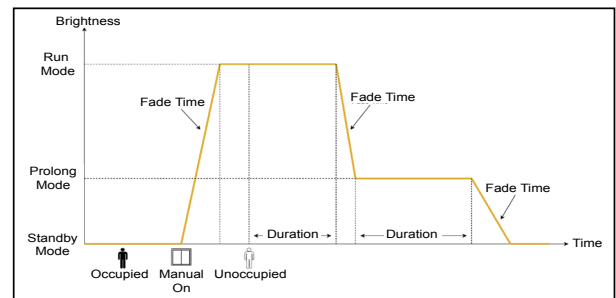


Mode / Scenario	Wireless Switch	Occupancy Sensor	Ambient Light Sensor
Unprovisioned Mode	-	-	-
Switch	On / Off / Scenes	-	-
Occupancy	On / Off / Scenes	Auto On / Off	-
Vacancy	On / Off / Scenes	Auto Off	-
Occupancy with Daylight Harvesting	On / Off / Scenes	Auto On / Off	Enabled
Vacancy with Daylight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

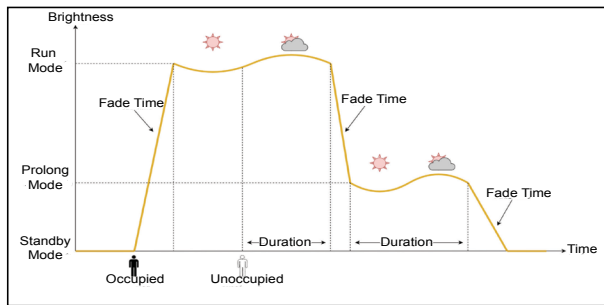
### Occupancy Scenario



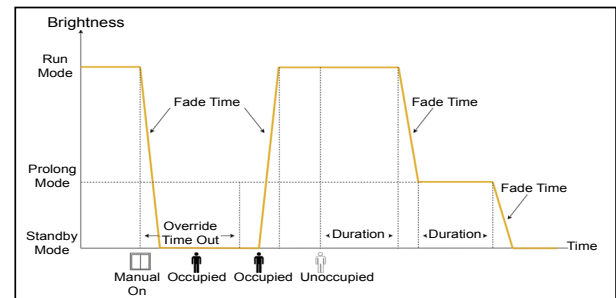
### Vacancy Scenario



### Occupancy Scenario - with Daylight Harvesting



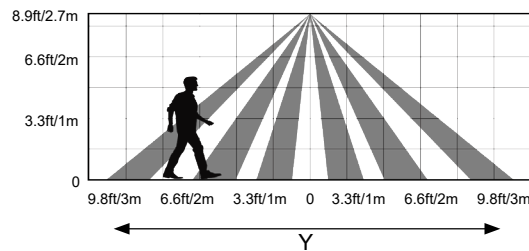
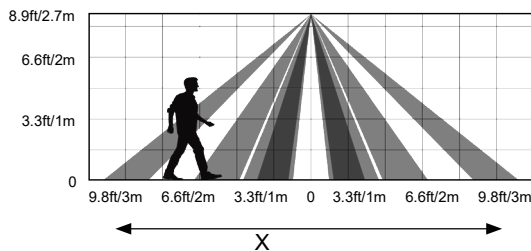
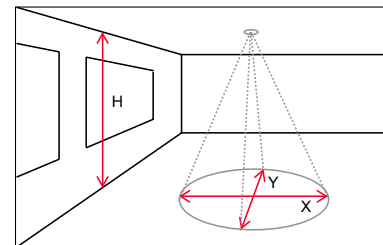
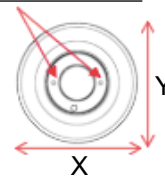
### Occupancy Scenario with Manual Override



## 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



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