aleo™
LED LIGHTING

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.

LTR Series

2x2	20W / 25W / 30W
2x4	25W / 30W / 34W
1x4	20W / 25W / 30W

Rated Life 75,000 hours
Limited Warranty 7-years
Efficacy Up to 130 LPW
Continuous Dimming

CONTINUOUS **DIMMING** 0-10V Continuous

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. DLC Premium.

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

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.
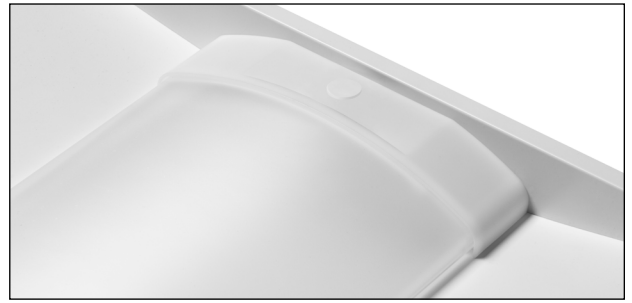
Ordering Information

LTR-24-UXL/8CT G5 ECO-HD (SR/RC) (XX)

LTR	24	UXL	8	CT	(XX)	[Blank]	[Blank]
Series	**Form Factor**	**Lumen Package**	**CRI**	**Color Temp**	**Nominal Wattage**	**Design**	**Sensor**
LTR LED Troffer Retrofit Kit	**22** 2'x2' **24** 2'x4' **14** 1'x4'	**UXL** Factory Set	**8** 83+	**CT** Field Adjust. 3500K 4000K 5000K * Utilize 3-way switch to select	2'x2' 20W / 25W / 30W 2'x4' 25W / 30W / 34W 1'x4' 20W / 25W / 30W * Wattage Factory Set	**HD** Hinged Door Design	**(SR/RC)** Sensor Ready with sensor receptacle

[Blank]	Options				
Dimming	**Controls**	**Emergency Backup¹**	**Accessories**	**Designation**	
Blank 0-10V Continuous Dimming	**See Pg. 2 for Ordering Details on** AleoBlue Wireless Bluetooth Occupancy Sensor (Plug & Play Field Install)	**EM700** 700lm **EM1400** 1400lm	**-AH** Air Handling	**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	3500K / 4000K / 5000K
Color Consistency	5-step MacAdam Ellipse
Rated Life	75,000 hours
L70[3]	> 54,000 hours
Power Factor	> 0.9
THD	< 20%
Dimming	0-10V Continuous (10-100%)
Operating Temp	-20ºC to 50ºC

Sensor Ready Quick Connect

Mounting Information

Existing Troffer

LTR Retrofit Kit

Ceiling T-Bar Grid
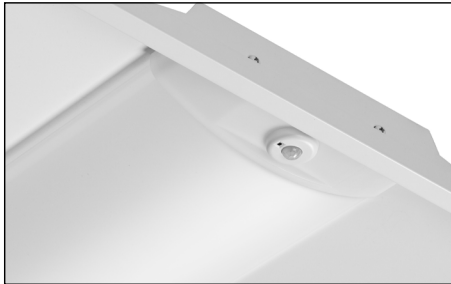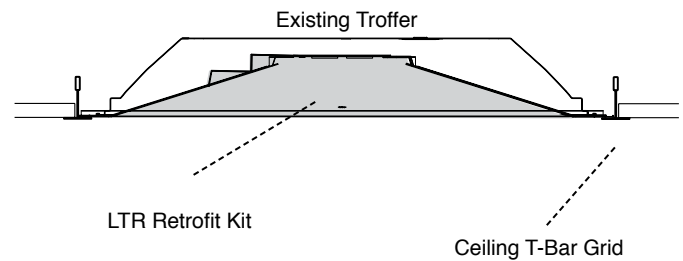
Sensor Plug and Play - Field Install

aleo**blue**™

Plug and Play Sensor

Model No. **SPIR-OSDL/BT-DC200-ADPT/PP3**

AleoBlue Wireless Bluetooth PIR Occupancy Sensor w/ Daylight Harvesting, terminal connectors w/ wiring harness

BAA and BABAA Compliant

BAA COMPLIANT

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

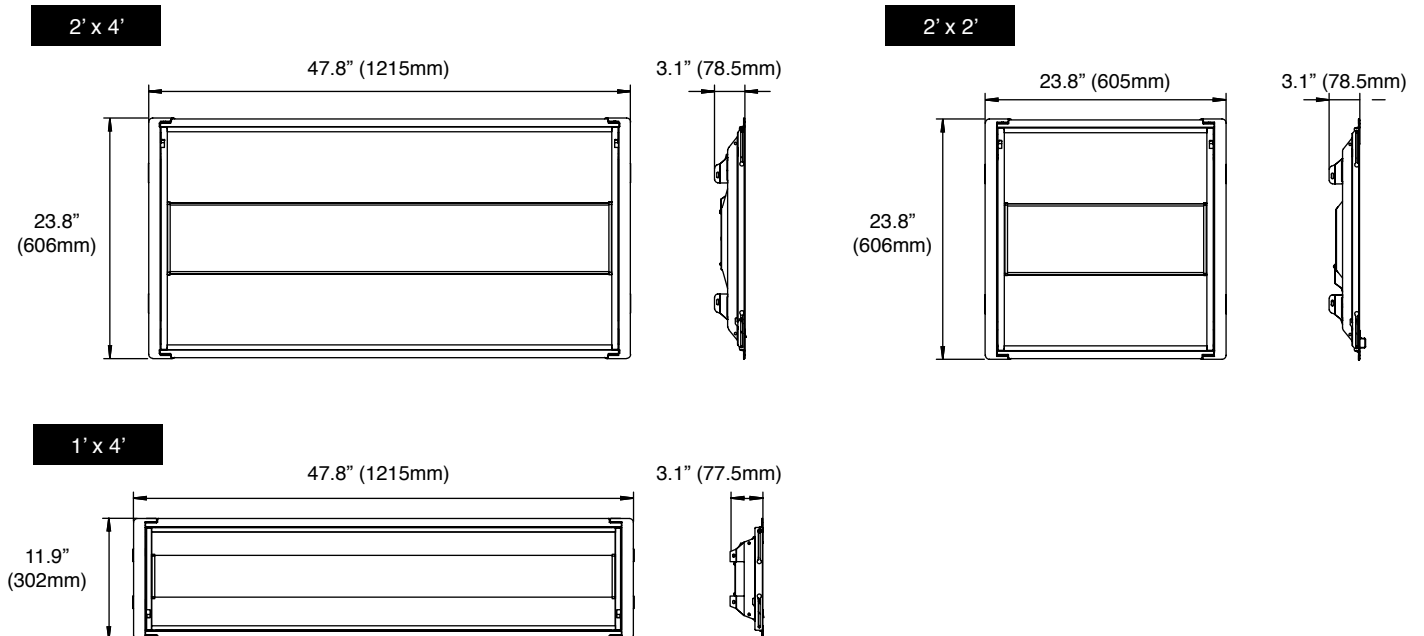### **BABAA - Build America, Buy America Compliant**
Complies and Qualifies for projects requiring Build America, Buy America Act (BABAA) compliant product

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

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[1]   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 G5 ECO-HD (SR/RC) (XX)	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 G5 ECO-HD (SR/RC) (XX)	25	3525	141	3800	152	3625	145
		30	4140	138	4470	149	4260	142
		34	4590	135	4964	146	4726	139
1' x 4'	LTR-14-UXL/8CT G5 ECO-HD (XX)	20	2820	141	3040	152	2860	143
		25	3400	136	3675	147	3450	138
		30	3930	131	4260	142	3990	133

Product Dimensions

MOQ Carton Qty: 2

2' x 4'

47.8" (1215mm)   3.1" (78.5mm)

23.8" (606mm)

2' x 2'

23.8" (605mm)   3.1" (78.5mm)

23.8" (606mm)

1' x 4'

47.8" (1215mm)   3.1" (77.5mm)

11.9" (302mm)

DLC QPL Data

QPL Model No.	Product ID	Technical Req.	Classification	Primary Use
LTR-24-UXL/8CT G5 ECO-HD (SR/RC) (25) [-YYXX/ZZ]	S-0ZW2G4	5.1	Premium	Integrated Retrofit Kits for 2x4 Luminaires
LTR-24-UXL/8CT G5 ECO-HD (SR/RC) (34) [-YYXX/ZZ]	S-C2TDJM	5.1	Premium	Integrated Retrofit Kits for 2x4 Luminaires
LTR-24-UXL/8CT G5 ECO-HD (SR/RC) (30) [-YYXX/ZZ]	S-G18CRP	5.1	Premium	Integrated Retrofit Kits for 2x4 Luminaires
LTR-22-UXL/8CT G5 ECO-HD (SR/RC) (20) [-YYXX/ZZ]	S-JWN6ZV	5.1	Premium	Integrated Retrofit Kits for 2x2 Luminaires
LTR-22-UXL/8CT G5 ECO-HD (SR/RC) (30) [-YYXX/ZZ]	S-QPKBOW	5.1	Premium	Integrated Retrofit Kits for 2x2 Luminaires
LTR-22-UXL/8CT G5 ECO-HD (SR/RC) (25) [-YYXX/ZZ]	S-WI3KY7	5.1	Premium	Integrated Retrofit Kits for 2x2 Luminaires

DLC LISTED PREMIUM™

aleoblue™

## 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.

DLC LISTED

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
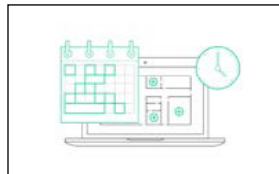
Scheduling	High and Low End Trim
	20% 60% 90%
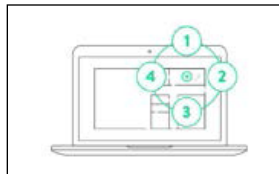
Scenes	Occupancy Sensing
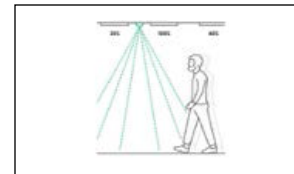
- Optimized Energy Consumption
- Less Hassle with On-Site Adjustments
- More Savings
- Increased Safety
- More Flexibility

- 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)

LTR_SR_RC_G5_Spec_Rev07   Aleo Lighting, Inc. I www.aleolighting.com I Ph: 877-358-8825
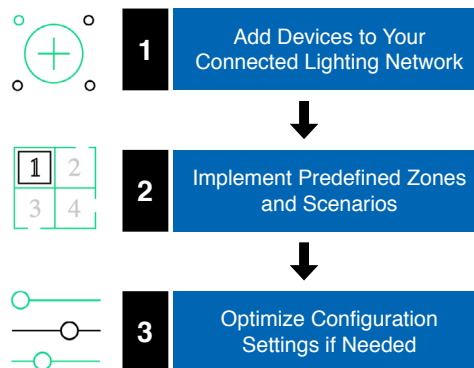
aleo**blue**™
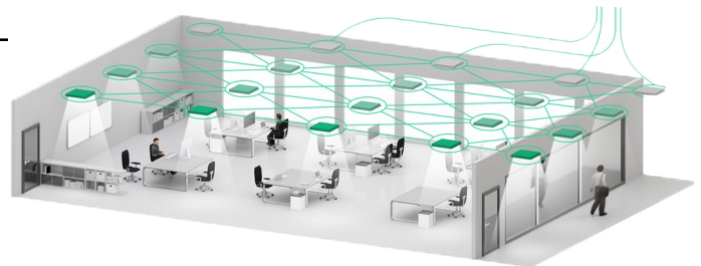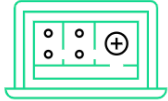
Planning

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
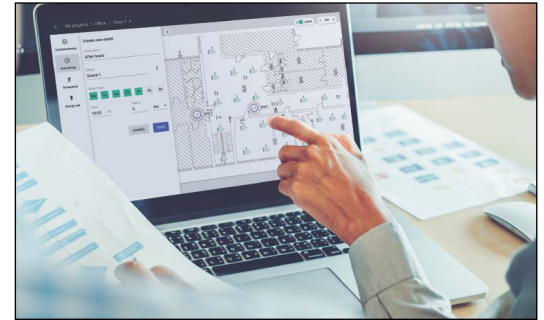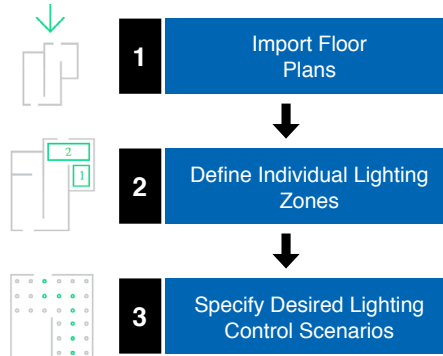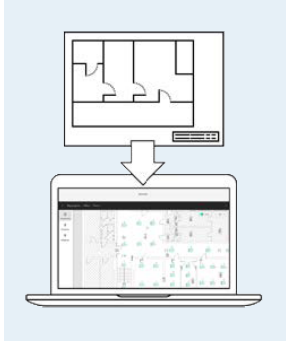
Implementation

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	**Wireless Bluetooth Lighting Control Node**	**EnOcean BLE Single-Rocker Switch**	**EnOcean BLE Double-Rocker Switch**
Model: -OSDL/BT	Model: -WLC/BT	Model: ESRPB	Model: EDRPB

LTR_SR_RC_G5_Spec_Rev07   **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.
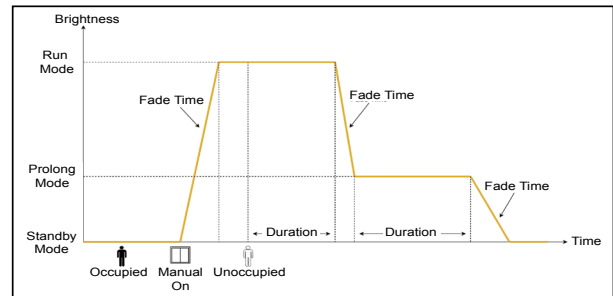

Mode / Scenario	Wireless Switch	Occupancy Sensor	Ambient Light Sensor
Unprovisioned Mode	-	-	-
Switch	On / Off / Scenes	-	-
Occupancy	On / Off / Scenes	Auto On / Off	-
Vacancy	On / Off / Scenes	Auto Off	-
Occupancy with Daylight Harvesting	On / Off / Scenes	Auto On / Off	Enabled
Vacancy with Daylight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

Occupancy Scenario
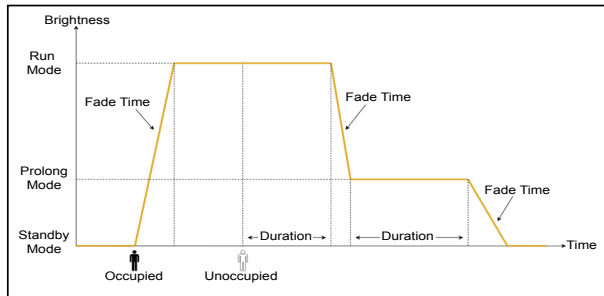
Vacancy Scenario
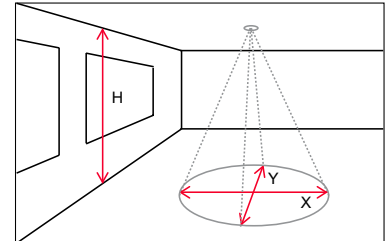

Occupancy Scenario - with Daylight Harvesting
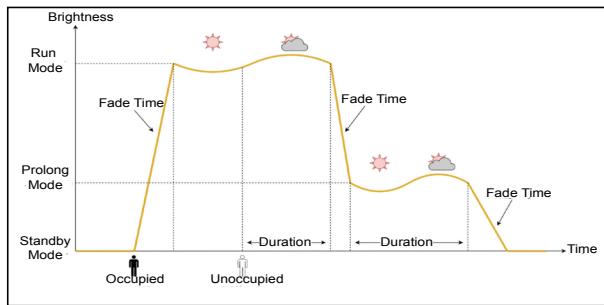
Occupancy Scenario with Manual Override
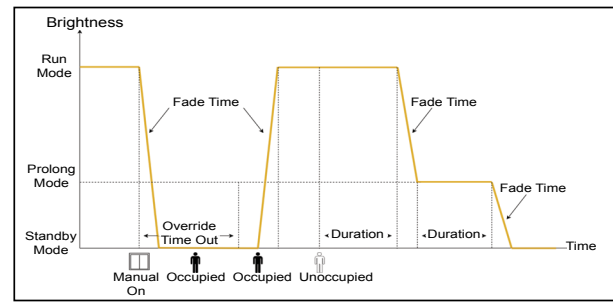
Occupancy Detection Pattern

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
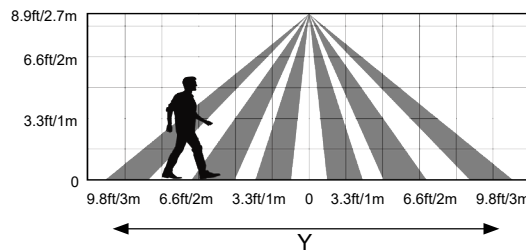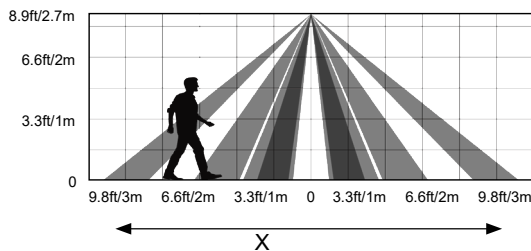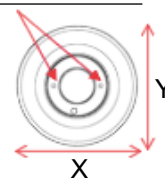
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