

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. 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.

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



Ordering Information

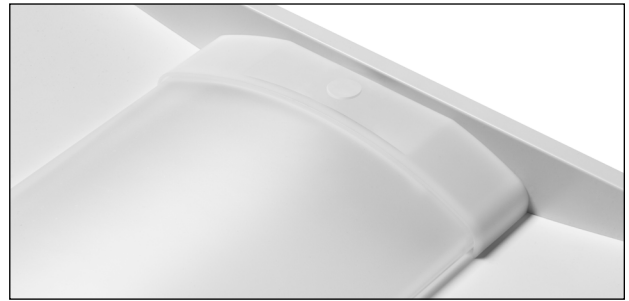
LTR-24-UXL/8CT G5 ECO-HD (SR/RC) (XX)

LTR	24	UXL	8	CT	(XX)	[Blank]
Series LTR LED Troffer Retrofit Kit	Form Factor 22 2'x2' 24 2'x4' 14 1'x4'	Lumen Package UXL Factory Set	CRI 8 83+	Color Temp CT Field Adjust. 3500K 4000K 5000K <small>* Utilize 3-way switch to select</small>	Nominal Wattage 2'x2' 20W / 25W / 30W 2'x4' 25W / 30W / 34W 1'x4' 20W / 25W / 30W <small>* Wattage Factory Set</small>	Design HD Hinged Door Design
[Blank]	[Blank]	Options				
Sensor (SR/RC) Sensor Ready with sensor receptacle	Dimming Blank 0-10V Continuous Dimming	Controls OSDL/BT AleoBlue Wireless Bluetooth Occupancy Sensor <small>(Ordered separately for plug and play field installation. See Pg. 2 for ordering)</small>	Emergency Backup EM700 700lm EM1400 1400lm			

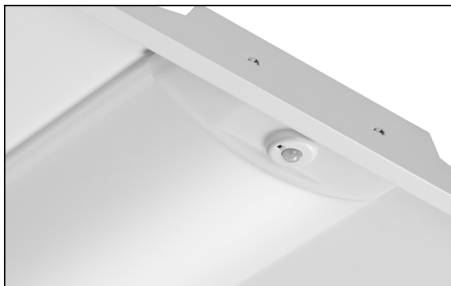
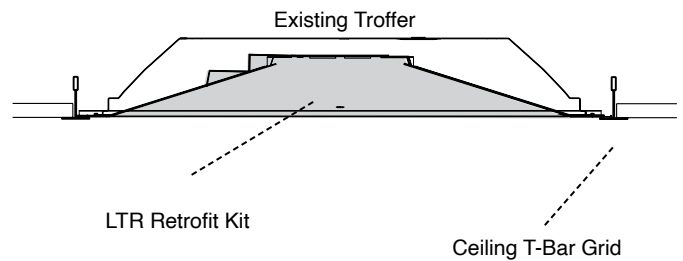
Performance Summary

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 ¹	3500K / 4000K / 5000K
Color Consistency ²	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	-20°C to 50°C

Sensor Ready Quick Connect



Mounting Information



Sensor Plug and Play - Field Install



aleoblue™

Plug and Play Sensor

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

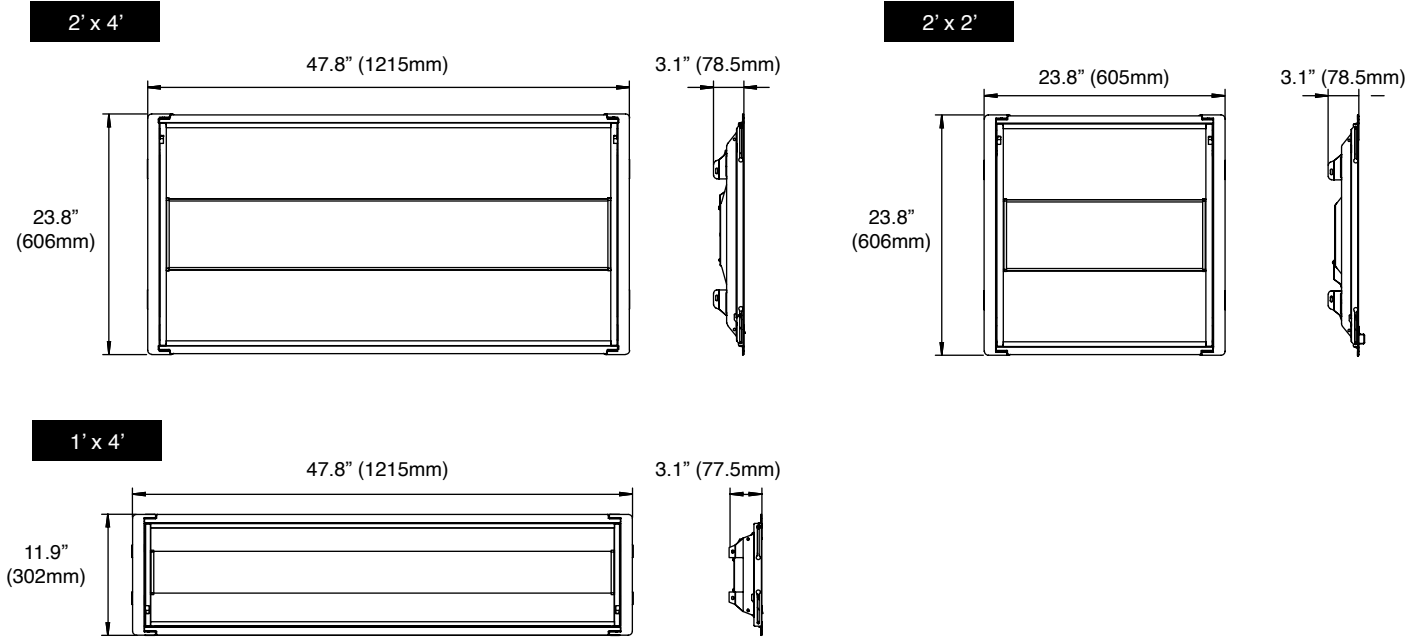
AleoBlue Wireless Bluetooth PIR Occupancy Sensor w/ Daylight Harvesting, terminal connectors w/ wiring harness

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

Specifications and Dimensions subject to change without notice.

Product Dimensions



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





AleoBlue Wireless Bluetooth Controls

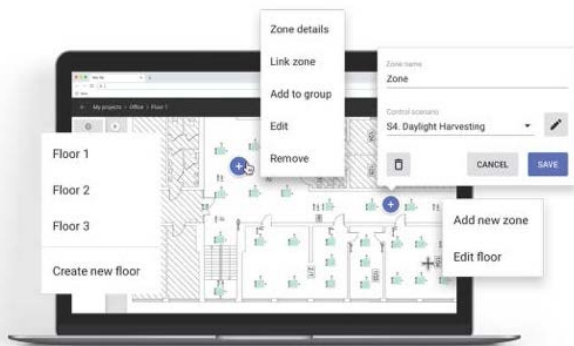


The AleoBlue is a complete solution for managing connected lighting systems using a Bluetooth Mesh lighting network. This enables seamless implementation of simple to complex lighting control scenarios without specialized training or lighting control engineering expertise.

DLC NLC Qualified.

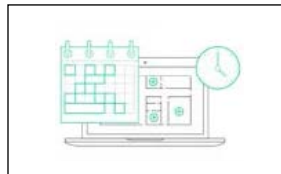
Features and Benefits

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

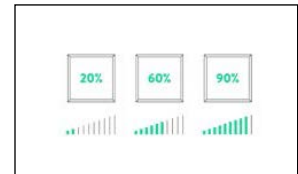


- Optimized Energy Consumption
- Less Hassle with On-Site Adjustments
- More Savings
- Increased Safety
- More Flexibility

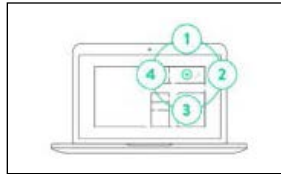
Scheduling



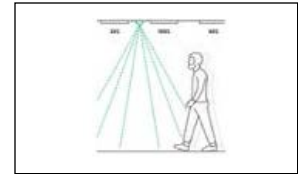
High and Low End Trim



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



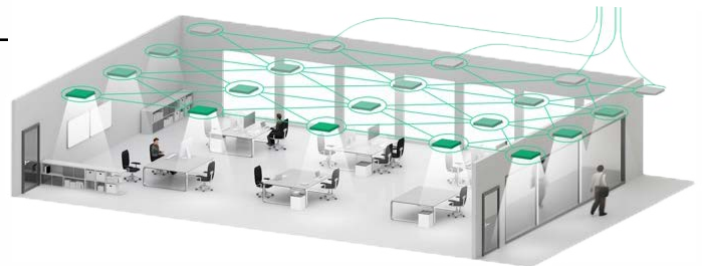
The most advanced encryption standards as well as the cutting-edge device authentication

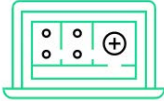


No single point of failure (no central device)



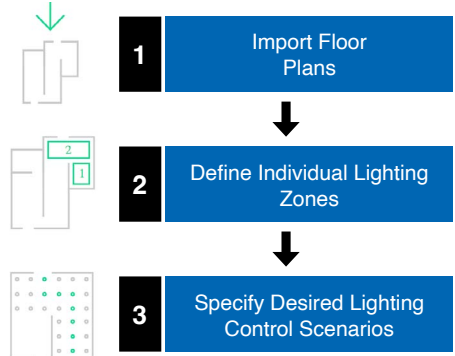
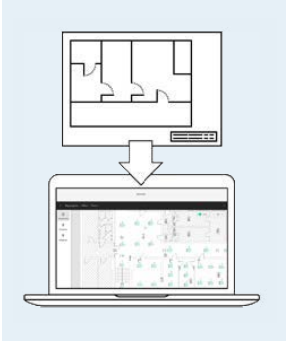
Compatibility with a widely available devices (smart phones & tablets – both with Bluetooth 4.0 and Bluetooth 5)





Planning

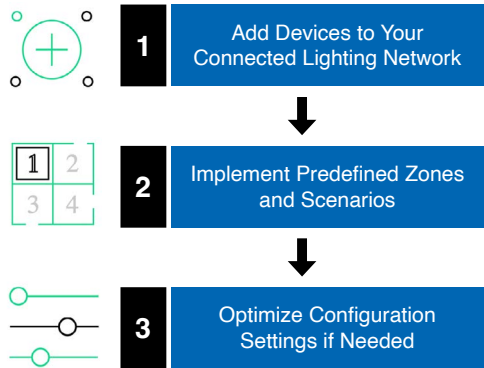
Remote preparation of a retrofit project with the use of our web app. Uploading floor plans, defining individual lighting zones and choosing lighting control scenarios.



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: -OSDL/BT



Wireless Bluetooth Lighting Control Node
Model: -WLC/BT



EnOcean BLE Single-Rocker Switch
Model: ESRPB



EnOcean BLE Double-Rocker Switch
Model: EDRPB

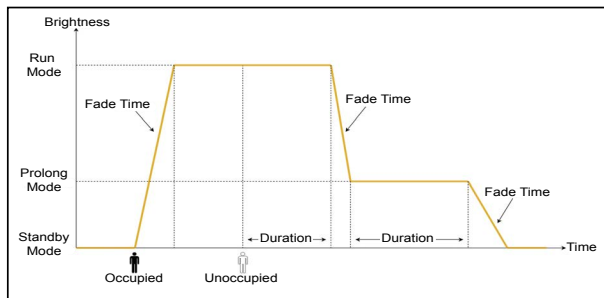
Lighting Control Scenarios

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.

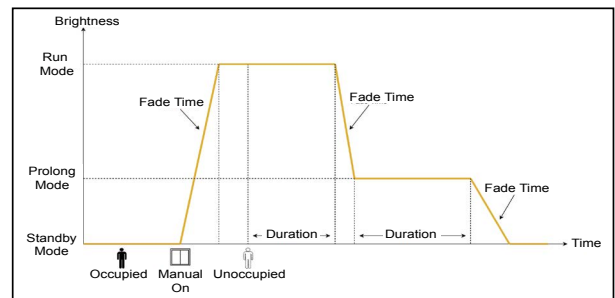


Mode / Scenario	Wireless Switch	Occupancy Sensor	Ambient Light Sensor
Unprovisioned Mode	-	-	-
Switch	On / Off / Scenes	-	-
Occupancy	On / Off / Scenes	Auto On / Off	-
Vacancy	On / Off / Scenes	Auto Off	-
Occupancy with Daylight Harvesting	On / Off / Scenes	Auto On / Off	Enabled
Vacancy with Daylight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

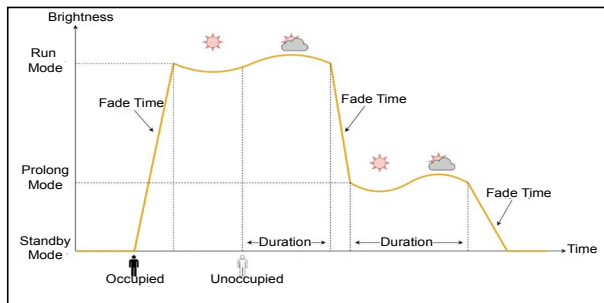
Occupancy Scenario



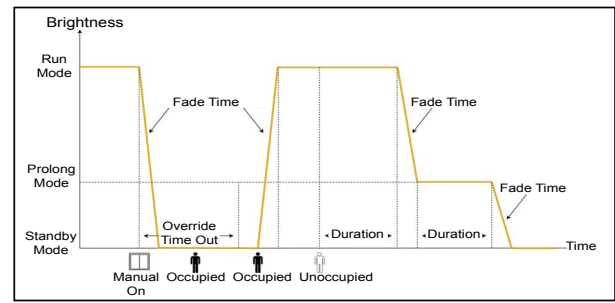
Vacancy Scenario



Occupancy Scenario - with Daylight Harvesting



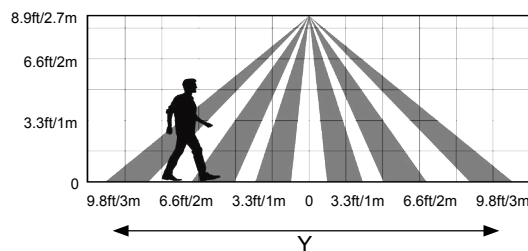
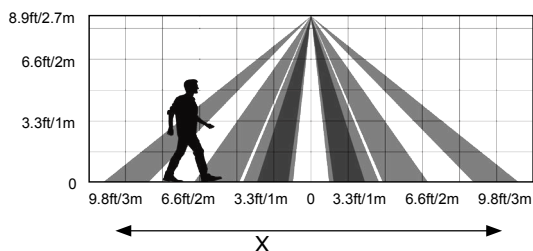
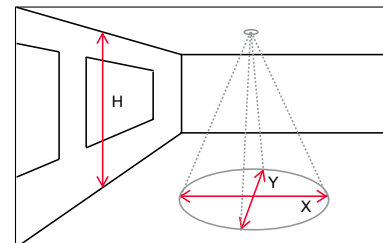
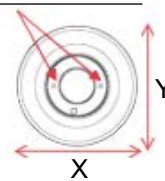
Occupancy Scenario with Manual Override



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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