

Project	
Notes	
Type	Date
Cat. No.	



LSR™ UX Series LED Linear Strip Retrofit Kit

DESCRIPTION

The Aleo LSR™ UX Series Linear 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 LSR™ UX kit transforms utility strips into high-efficiency, architectural luminaires.

APPLICATIONS

Excellent for general utility applications to retrofit existing utility strip/channels. Parking garage, warehouse, offices, restrooms, storage units, stairwell.



Specification Features

Construction

Integral LED gear tray and reflector with driver on board allows for easy installation and handling. Luminaire features matte white durable finish. Diffuser requires no additional frame or fastener for easy installation.

Optical System

Reflector systems features highly reflective coating and delivers balanced, comfortable illuminance 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 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. Comes equipped with luminaire quick-disconnect.

Installation / Mounting

Features universal mounting bracket to fit strips with 4-1/2" to 5-1/2" width. Includes safety cables for security and wiring. Installs on existing strip 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.

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.

LSR UX Series

4' 18W/25W/30W
8' 38W/54W/65W

Rated Life 75,000 hours
Limited Warranty 7-years
Efficacy Up to 160 LPW
Continuous Dimming



Quick Ship

LSR-4UXL-30/8CT XE G4
LSR-8UXH-65/8CT XE G4

Ordering Information

Example: LSR-8UXH-65/8CT XE G4 (XX)

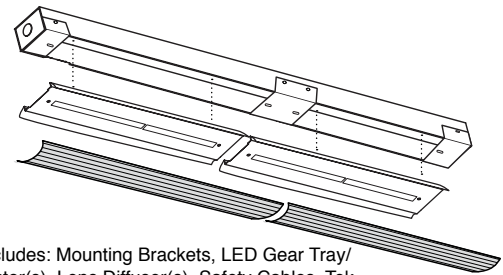
LSR	8	UXH	65	8	CT	(XX)	[Blank]	[Blank]
Series	Form Factor	Lumen Package	Max Wattage	CRI	Color Temp	Nominal Wattage	Input Voltage	Dimming
LSR	4 4'	UXL Factory Set	30	8 83+	CT	(XX)	Blank	Blank
LED Linear Strip Retrofit Kit	8 8'	UXH Factory Set	4' - 30W		Field Adjust. 3500K 4000K 5000K	4' 18W/25W/30W 8' 38W/54W/65W	120V-277V	0-10V Continuous Dimming
			65 8' - 65W		*Utilize 3-way switch to select	*Wattage Factory Set		
Controls*	Emergency Backup¹		Designation					
OSDL/HF/IR	Multi-Level High Frequency Occupancy Sensor	EM700 700lm EM1400 1400lm EM2000 2000lm	BAA Buy American Act Compliant		BABAA Build America, Buy America Act Compliant			

Specifications and Dimensions subject to change without notice.

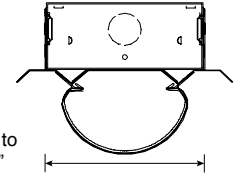
Performance Summary

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	> 72,000 hours
Power Factor	> 0.9
THD	< 20%
Dimming	0-10V Continuous (10-100%)
Operating Temp.	-20°C to 45°C

Mounting Information



Kit includes: Mounting Brackets, LED Gear Tray/ Reflector(s), Lens Diffuser(s), Safety Cables, Tek Screws, 1/4-turn Fasteners.



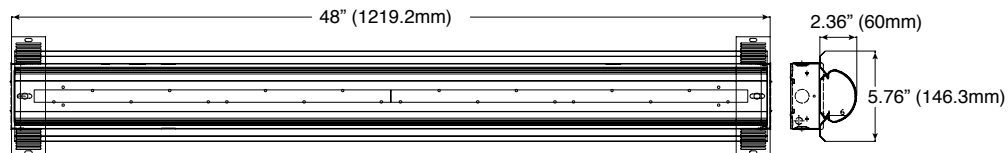
Retrofit kit designed for existing strip housing with width of 4-1/4" to 5-1/4", with a min. depth of 1-5/8"

Performance Data

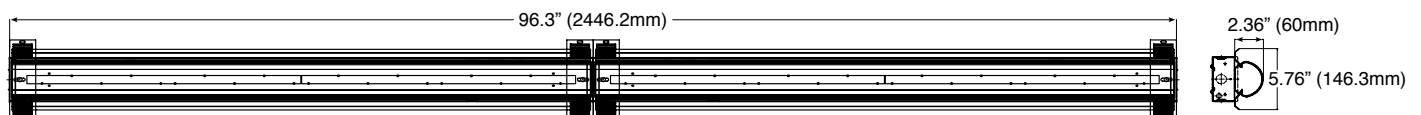
Form Factor	Catalog No.	Rated Wattage (W)	Tested Wattage (W)	3500K		4000K		5000K	
				Delivered Lumens (lm)	Efficacy (lm/W)	Delivered Lumens (lm)	Efficacy (lm/W)	Delivered Lumens (lm)	Efficacy (lm/W)
4'	LSR-4UXL-30/8CT XE G4	18	18.38	2683.5	146	2977.6	162	2720.2	148
		25	24.47	3499.2	143	3890.7	159	3548.2	145
		30	30.37	4191.1	138	4646.6	153	4251.8	140
8'	LSR-8UXH-65/8CT XE G4	38	36.69	5613.6	153	6237.3	170	5687	155
		54	53.85	7969.8	148	8831.4	164	8077.5	150
		65	62.75	9036	144	10040	160	9161.5	146

Product Dimensions

LSR-4 MOQ Carton Qty: 2



LSR-8



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

Specifications and Dimensions subject to change without notice.

DLC QPL Data



DLC QPL Model No.	Product ID.	Technical Req.	Classification	Primary Use
LSR-4UXL-30/8CT XE G4 (18)	PEMAIAB6	5.1	Standard	Retrofit Kits for Direct Linear Ambient Luminaires
LSR-4UXL-30/8CT XE G4 (25)	PP5C1B5O	5.1	Standard	Retrofit Kits for Direct Linear Ambient Luminaires
LSR-4UXL-30/8CT XE G4 (30)	PYBB22WG	5.1	Standard	Retrofit Kits for Direct Linear Ambient Luminaires
LSR-8UXH-65/8CT XE G4 (38)	P6JR5ZFT	5.1	Standard	Retrofit Kits for Direct Linear Ambient Luminaires
LSR-8UXH-65/8CT XE G4 (54)	PM82QBJ4	5.1	Standard	Retrofit Kits for Direct Linear Ambient Luminaires
LSR-8UXH-65/8CT XE G4 (65)	PHZGQ3NF	5.1	Standard	Retrofit Kits for Direct Linear Ambient Luminaires

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

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



AleoBlue Wireless Bluetooth Controls

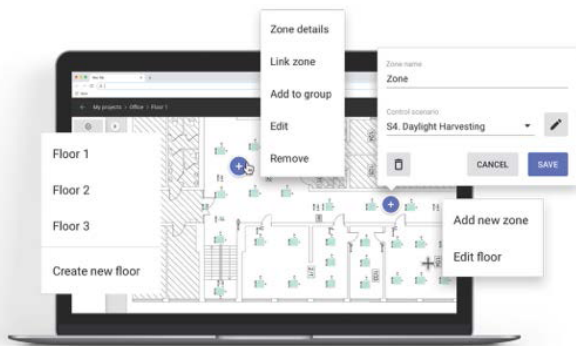


The AleoBlue is a complete solution for managing connected lighting systems using a Bluetooth Mesh lighting network. This enables seamless implementation of simple to complex lighting control scenarios without specialized training or lighting control engineering expertise.

DLC NLC Qualified.

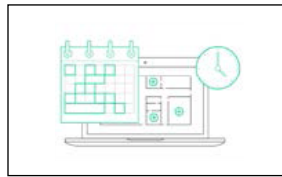
Features and Benefits

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

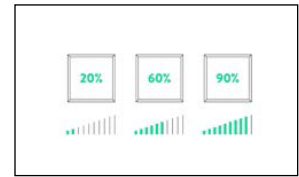


- Optimized Energy Consumption
- Less Hassle with On-Site Adjustments
- More Savings
- Increased Safety
- More Flexibility

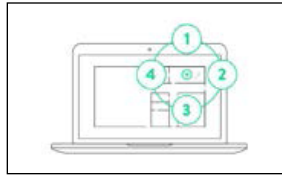
Scheduling



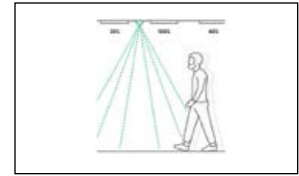
High and Low End Trim



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



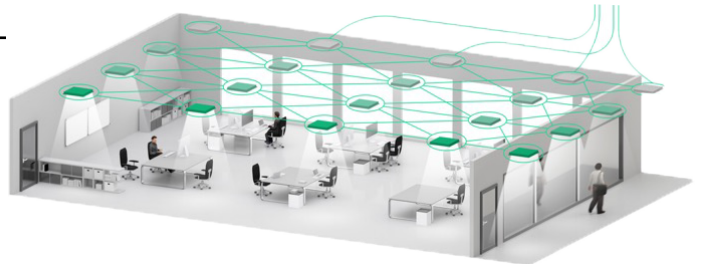
The most advanced encryption standards as well as the cutting-edge device authentication

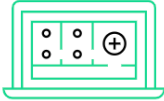


No single point of failure (no central device)



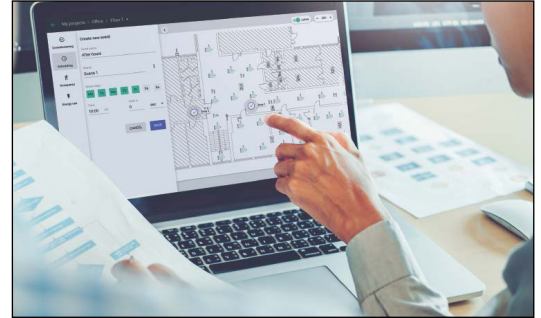
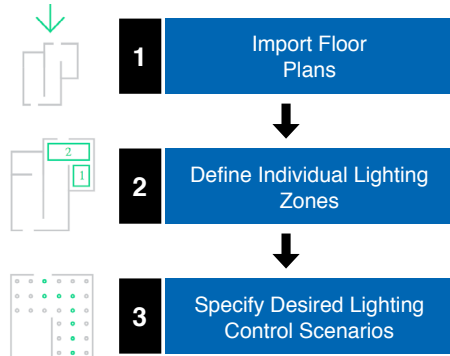
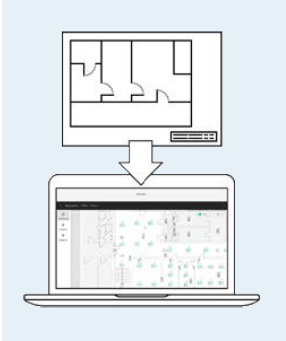
Compatibility with a widely available devices (smart phones & tablets – both with Bluetooth 4.0 and Bluetooth 5)





Planning

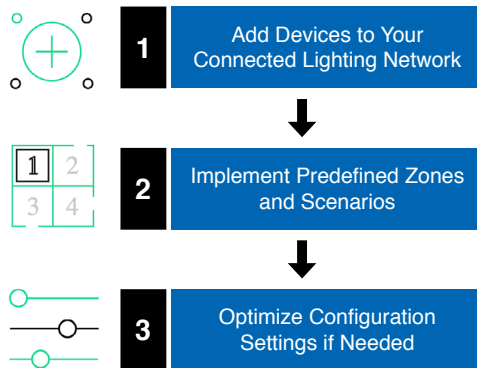
Remote preparation of a retrofit project with the use of our web app. Uploading floor plans, defining individual lighting zones and choosing lighting control scenarios.



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 Lighting Control Node
Model: -WLC/BT



EnOcean BLE Single-Rocker Switch
Model: ESRPB



EnOcean BLE Double-Rocker Switch
Model: EDRPB



Wireless, AC Powered, Ceiling-Mount Occ. Sensor
Model: CM-AC-OS/BT



aleoBlue Gateway
Model: SGW-101

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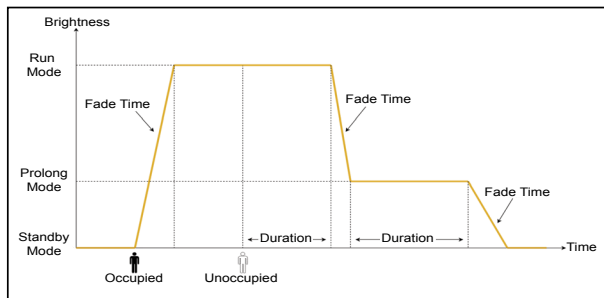
Lighting Control Scenarios

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.

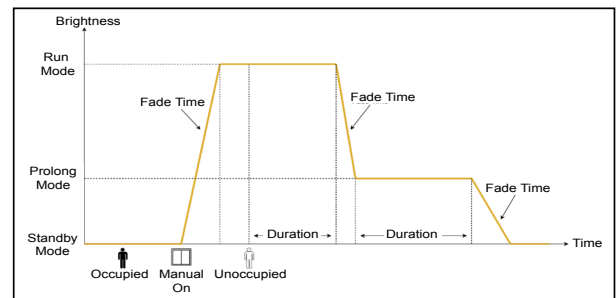


Mode / Scenario	Wireless Switch	Occupancy Sensor	Ambient Light Sensor
Unprovisioned Mode	-	-	-
Switch	On / Off / Scenes	-	-
Occupancy	On / Off / Scenes	Auto On / Off	-
Vacancy	On / Off / Scenes	Auto Off	-
Occupancy with Daylight Harvesting	On / Off / Scenes	Auto On / Off	Enabled
Vacancy with Daylight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

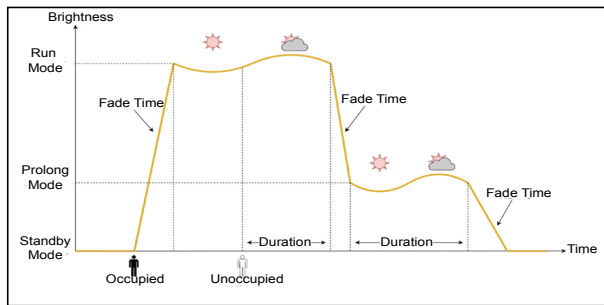
Occupancy Scenario



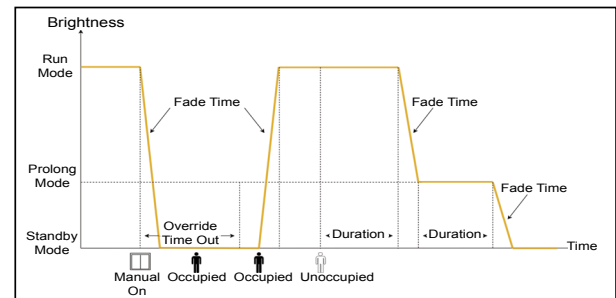
Vacancy Scenario



Occupancy Scenario - with Daylight Harvesting



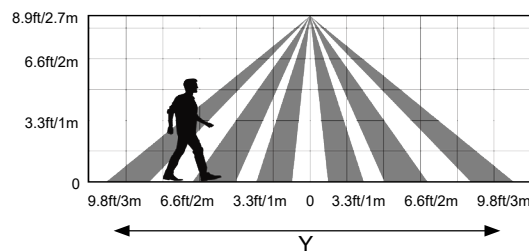
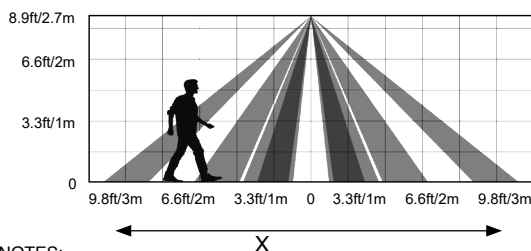
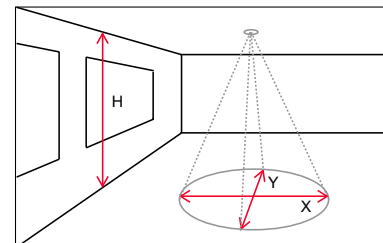
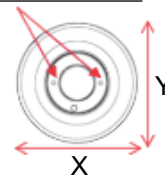
Occupancy Scenario with Manual Override



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



NOTES:

- Typical color consistency. May vary or be changed.
- L70 hours calculated based on LED package manufacturer LM80 report and ISTMT report of LED in luminaire. Stated values are for select catalog numbers. Contact manufacturer for detailed information

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