aleo™
LED LIGHTING

Project	
Notes	
Type	Date
Cat. No.	

LLS™ UX Series — LED Linear Strip Luminaire Field Adjustable

DESCRIPTION
The Aleo LLS™ UX Series Field Adjustable Linear Strip Luminaire delivers industry-leading performance with deep energy savings and continuous dimming. Low profile design offers easy handling and storage. This versatile luminaire produces energy-efficient, comfortable illumination for a myriad of applications.

APPLICATIONS
Excellent for general utility applications: Parking garage, warehouse, offices, restrooms, storage units, stairwell.

Specification Features

LLS Series

4' 25W / 34W / 40W

8' 55W / 60W / 65W

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

CONTINUOUS **DIMMING** 0-10V Continuous

Quick Ship

LLS-4-UXH-40/8CT G4
LLS-8-UXH-65/8CT G4

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 luminance for productive spaces. Diffuser lens reduces glare and improves occupant comfort while maintaining high efficiency emission.

Certification
UL Listed. 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.

Installation / Mounting
Luminaire back housing includes holes and slots for various mounting methods.

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. Sensor accessory available: occupancy sensing with daylight cut-off.

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 box

Ordering Information

Example: LLS-4-UXH-40/8CT G4

LLS	4	UXH	40	8	CT	[Blank]	[Blank]
Series	**Form Factor**	**Lumen Package**	**Nominal Max Wattage**	**CRI**	**Color Temp**	**Input Voltage**	**Dimming**
LLS LED Linear Strip Luminaire - Field Adjustable	**4** 4' **8** 8'	**UXH** Field Adjustable	**4'** **40** 25W / 34W /40W **8'** **65** 55W / 60W / 65W * Utilize 3-way switch to select	**8** 83+	**CT** Field Adjust. 3500K 4000K 5000K * Utilize 3-way switch to select	**Blank** 120V-277V	**Blank** 0-10V Continuous Dimming

Options

Emergency Backup **EM700** 700lm **EM1400** 1400lm **EM2000** 2000lm	**Controls** **OS** Occupancy Sensor **OSDL** Occ. Sensor w/ Daylight **OSDL/IR** Multi-Level Occ. Sensor w/ wireless config. **OSDL/BT** Wireless Bluetooth Occupancy Sensor	**SB** Integrated Sensor Box

* Will be supplied with side fixture-mount sensor, unless SB is specified
* Contact factory for other control options and wireless capabilities

**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	84+, R9 > 0
Available CCT[1]	3500K, 4000K, 5000K
Color Consistency[2]	5-step MacAdam Ellipse
Rated Life	75,000 hours
L90	> 54,000 hours
Power Factor	> 0.9
THD	< 20%
Dimming	0-10V Continuous (10-100%)
Operating Temp.	-20°C to 40°C
Environment	Suitable for Damp Location

Mounting Information
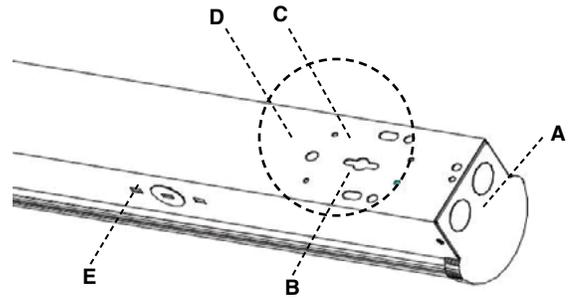
A: End Cap
B: Suspension-mount with air craft cable
C: Surface Mount
D: T-Bar Clip Mounting hole
E: Wiring Knockout

J-Box Mounting Accessory
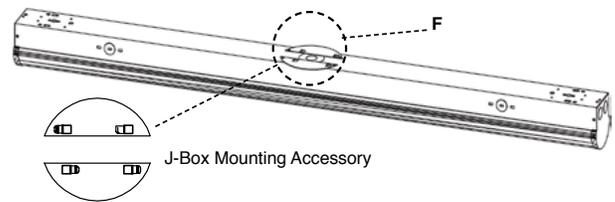
Performance Data

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)
4'	**LLS-4-UXH-40/8CT G4**	25	3600	144	3625	145	3650	146
		34	4726	139	4760	140	4794	141
		40	5320	133	5360	134	5400	135
8'	**LLS-8-UXH-65/8CT G4**	55	7480	136	7535	137	7590	138
		60	7980	133	8040	134	8100	135
		65	8450	130	8515	131	8580	132

Product **Dimensions**
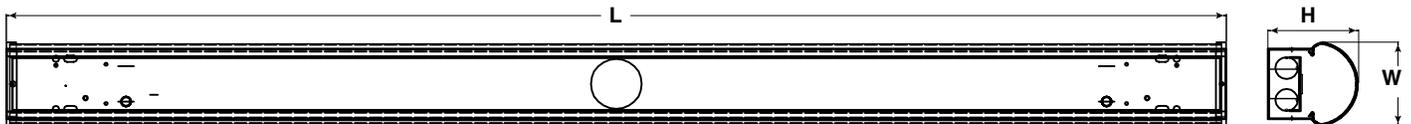
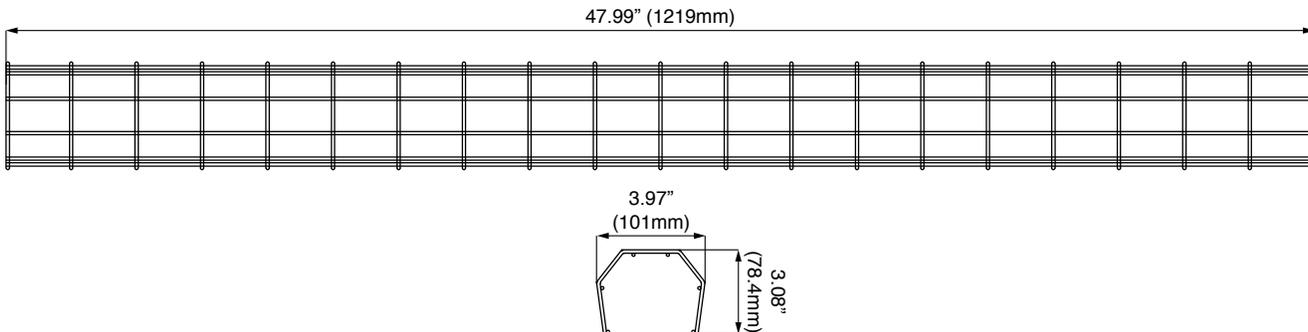| Model No.	L	W	H
LLS-4	48" (1219mm)	3.56" (90.5mm)	3.35" (85.2mm)
LLS-8	95.98" (2438mm)	3.56" (90.5mm)	3.35" (85.2mm)

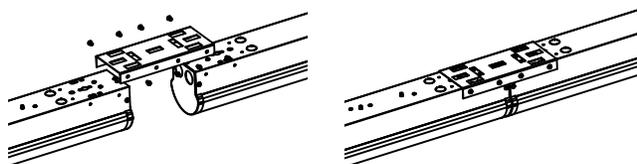**Specifications and Dimensions subject to change without notice.**

Accessory Options

Item No.: **LLS-WG-4**

Wire Guard for LLS-4

47.99" (1219mm)

3.97"
(101mm)

3.08"
(78.4mm)

Item No.: **LLS-DC-BRK**

Daisy Chain Bracket for LLS Luminaire, including 8 screws

DLC QPL Data

QPL Model No.	Product ID	Technical Req.	Classification	Primary Use
LLS-4-UXH-40/8CT G4	PLXK4OB70AC0	5	Premium	Direct Linear Ambient Luminaires
LLS-4-UXH-65/8CT G4	PLV1PO4EYIU7	5	Premium	Direct Linear Ambient Luminaires

Specifications and Dimensions subject to change without notice.

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.
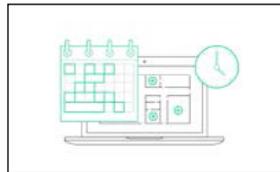
DLC NLC Qualified.

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%
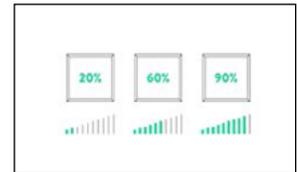
Scenes

Occupancy Sensing

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

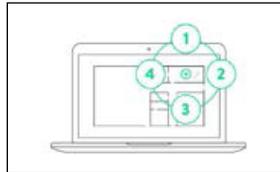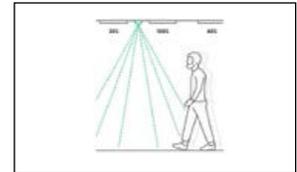- Intuitive and user-friendly web and iOS apps
- No specialized training or lighting control expertize required
- Optimized for commercial spaces of any size
- No additional wiring or central control box
- Customizable lighting control parameters
- Future proof with Software Updates
- Multiple Zone Configurable
- Built-In Scenarios + Customization

Bluetooth Mesh Technology Advantages

The fastest low-power communication
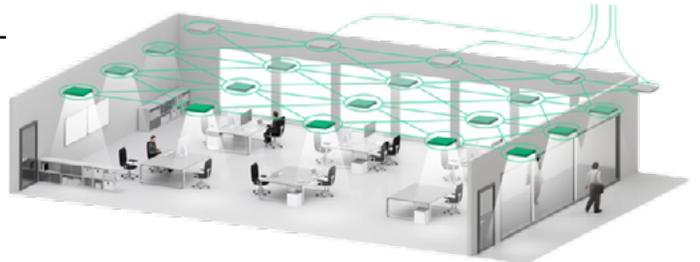
Scalability to thousands of devices

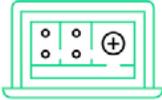The most advanced encryption standards as well as the cutting-edge device authentication

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.

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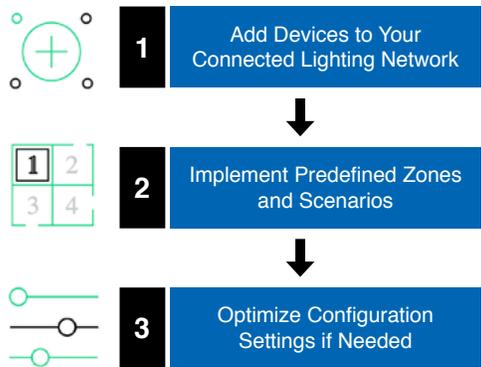
aleoblue™

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
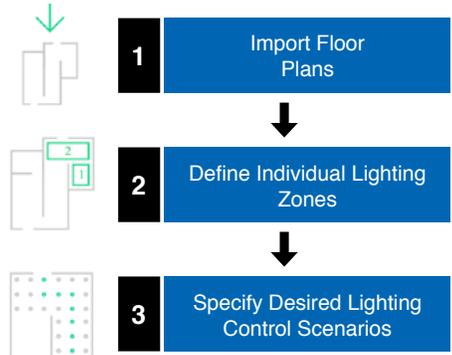
Implementation

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: -OSDL/BT

Wireless Bluetooth Lighting Control Node
Model: -WLC/BT

EnOcean BLE Single-Rocker Switch
Model: ESRPB

EnOcean BLE Double-Rocker Switch
Model: EDRPB

Specifications and Dimensions subject to change without notice.

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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.
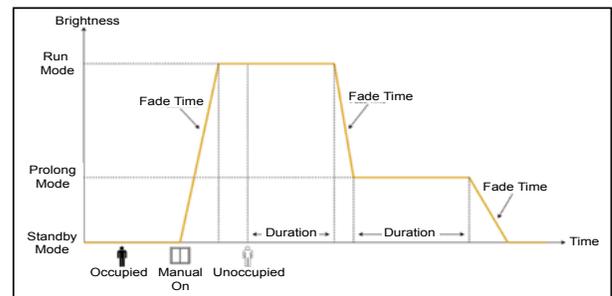

| Mode / Scenario	Wireless Switch	Occupancy Sensor	Ambient Light Sensor
Unprovisioned Mode	-	-	-
Switch	On / Off / Scenes	-	-
Occupancy	On / Off / Scenes	Auto On / Off	-
Vacancy	On / Off / Scenes	Auto Off	-
Occupancy with Daylight Harvesting	On / Off / Scenes	Auto On / Off	Enabled
Vacancy with Daylight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

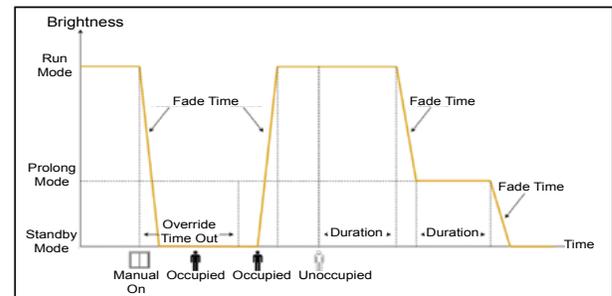### Occupancy Scenario
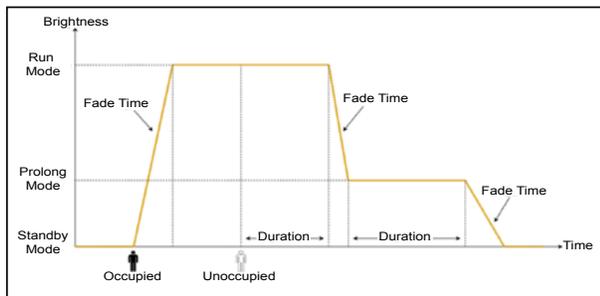
Vacancy Scenario

Occupancy Scenario - with Daylight Harvesting
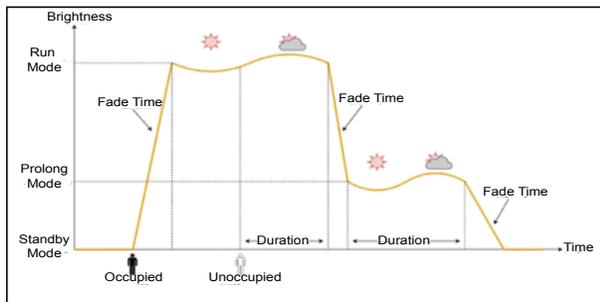
Occupancy Scenario with Manual Override

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

Aleo Lighting, Inc.
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