# aleo™ LED LIGHTING

| Project | |
|---|---|
| Notes | |
| Type | Date |
| **Cat. No.** | |

## LWA™ UX Series — LED Commercial Wrap Luminaire

### DESCRIPTION

The Aleo LWA™ UX Series Commercial Wrap 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: storage closets, restrooms, hallways, corridors, stairwells.

**LWA UX** Series

**4'** 40W/35W/30W

## Specification Features

### Construction

Modular LED and driver allows for serviceability and maintenance. 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 Listed. All components have UL certification.  UL Class 2. Driver: SCP, OTP, OVP protection, FCC Part 15 Class B, UL8750 Class 2. DLC 5.1 Standard QPL 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

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.

### 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

**Rated Life** 75,000 hours
**Limited Warranty** 7-years
**Efficacy** Up to 135 LPW
**Continuous** Dimming

CONTINUOUS **DIMMING** 0-10V Continuous

**Quick** Ship

LWA-4UXH-40/8CT XE G4

## Ordering Information

Example: LWA-4UXH-40/8CT XE G4 (XX)

| LWA | 4 | UXH | 40 | 8 | CT | [Blank] | (XX) | [Blank] |
|---|---|---|---|---|---|---|---|---|
| **Series** | **Form Factor** | **Lumen Package** | **Max Wattage** | **CRI** | **Color Temp¹** | **Input Voltage** | **Nominal Wattage** | **Dimming** |
| LWA LED Commercial Wrap Luminaire | 4  4' | UXH  Factory Set | 40 | 8 83+ | CT Field Adjust. 3500K 4000K 5000K *Utilize 3-way switch to select | Blank 120V-277V | (XX) 40W/35W/30W *Wattage Factory Set | Blank 0-10V Continuous Dimming |

### Options

| Emergency Backup¹ | Controls | | Designation |
|---|---|---|---|
| EM700  700lm | OSDL/BT | AleoBlue Wireless Bluetooth Occupancy Sensor | **BAA** Buy American Act Compliant |
| EM1400  1400lm | WLC/BT | Wireless Bluetooth Lighting Control Node | **BABAA** Build America, Buy America Act Compliant |
| | OSDL/HF/IR | Multi-Level High Frequency Occ Sensor IR Commissioning | |
| | *Will be supplied with side fixture-mounting sensor, unless specified | | |

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

Form LWA-UX-SS/ Rev03      **Aleo Lighting, Inc.**  I  www.aleolighting.com  I  Ph: 877-358-8825

## **Performance** Summary

| | |
|---|---|
| **Input Voltage** | 120V-277V |
| **Input Frequency** | 50/60 Hz |
| **Rated Wattage** | See Performance Table |
| **Delivered Lumens** | See Performance Table |
| **Efficacy** | > 135 LPW (typ.) |
| **CRI** | 83+, R9 > 0 |
| **Available CCT²** | 3500K/4000K/5000K |
| **Color Consistency²** | 5-step MacAdam Ellipse |
| **Rated Life** | 75,000 hours |
| **L70³** | > 72,000 hours |
| **Power Factor** | > 0.9 |
| **THD** | < 20% |
| **Dimming** | 0-10V Continuous (10-100%) |
| **Operating Temp.** | -20ºC to 50ºC |
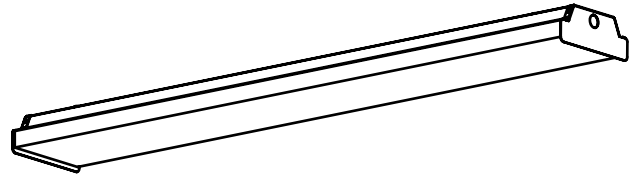
## **Performance** Data

| 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' | LWA-4UXH-40/8CT XE G4 | 30 | 4260 | 142 | 4500 | 150 | 4290 | 143 |
| | | 35 | 4795 | 137 | 5075 | 145 | 4830 | 138 |
| | | 40 | 5400 | 135 | 5720 | 143 | 5440 | 136 |

## Product **Dimensions**



47.71" (1211.8 mm)     2.8" (71mm)

7.09" (180mm)     7.09" (180mm)
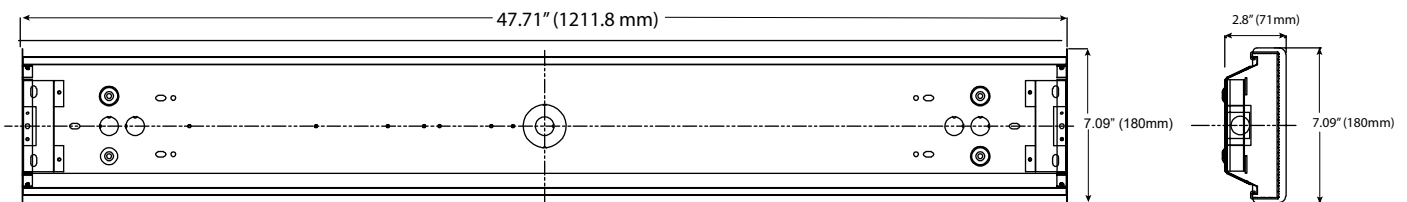
## **DLC QPL** Data

| QPL Model No. | Product ID | Technical Req. | Classification | Primary Use |
|---|---|---|---|---|
| LWA-4UXH-40/8CT XE G4 (40) [-YYXX/ZZ] | S-FNMJVB | 5.1 | Standard | Direct Linear Ambient Luminaires |
| LWA-4UXH-40/8CT XE G4 (35) [-YYXX/ZZ] | S-VSUYFL | 5.1 | Standard | Direct Linear Ambient Luminaires |
| LWA-4UXH-40/8CT XE G4 (30) [-YYXX/ZZ] | S-W4TGNP | 5.1 | Standard | Direct Linear Ambient Luminaires |

NOTES:

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

[2]    Typical color consistency.  May vary or be changed.

[3]    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

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

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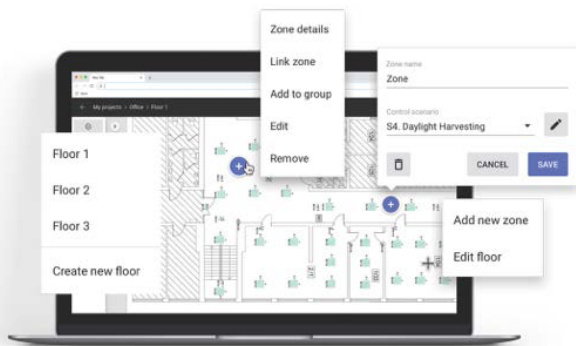
**Specifications and Dimensions subject to change without notice.**

# 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.

**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%
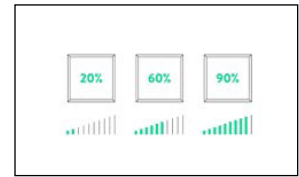
**Scenes**

**Occupancy Sensing**

- Optimized Energy Consumption
- Less Hassle with On-Site Adjustments
- More Savings
- Increased Safety
- More Flexibility
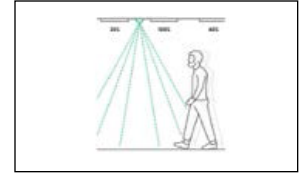
- Intuitive and user-friendly web and iOS apps
- No specialized training or lighting control expertize required
- Optimized for commercial spaces of any size
- No additional wiring or central control box
- Customizable lighting control parameters
- Future proof with Software Updates
- Multiple Zone Configurable
- Built-In Scenarios + Customization

## Bluetooth Mesh Technology Advantages

The fastest low-power communication

Scalability to thousands of devices

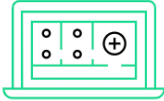The most advanced encryption standards as well as the cutting-edge device authentication

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)

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

Form LWA-UX-SS/ Rev03          **Aleo Lighting, Inc.**  I  www.aleolighting.com  I  Ph:  877-358-8825
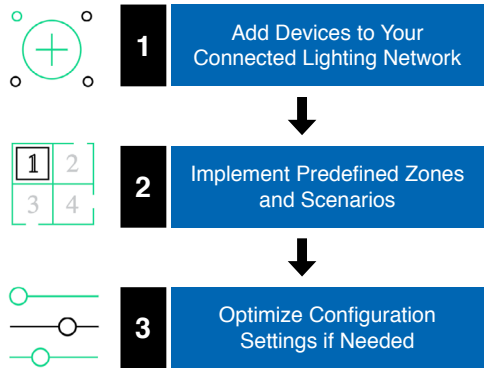
# aleoblue™
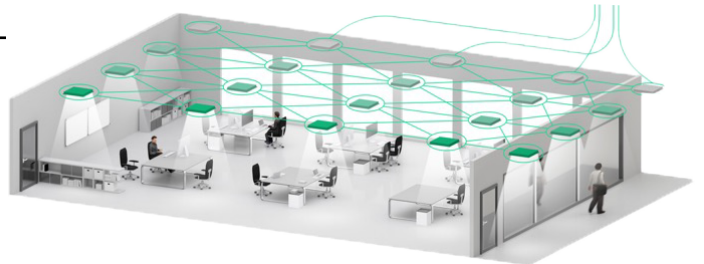
## Planning

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 |
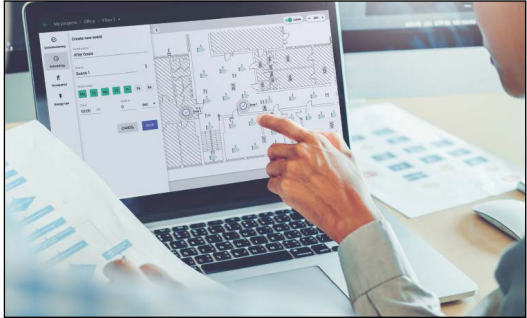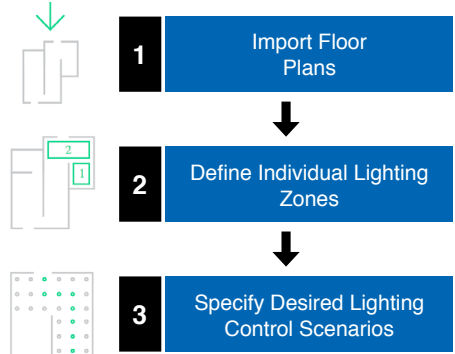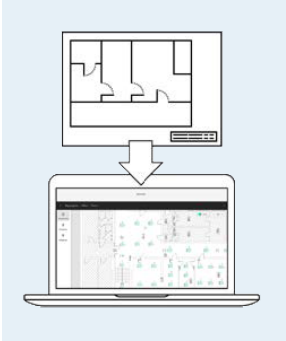
## Implementation

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
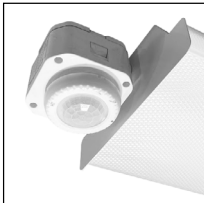
| **Wireless Bluetooth Occupancy Sensor** | **Wireless Bluetooth Lighting Control Node** | **EnOcean BLE Single-Rocker Switch** | **EnOcean BLE Double-Rocker Switch** | **Wireless, AC Powered, Ceiling-Mount Occ. Sensor** |
|---|---|---|---|---|
| Model: -OSDL/BT | Model: -WLC/BT | Model: ESRPB | Model: EDRPB | Model: CM-AC-OS/BT |

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

Form LWA-UX-SS/ Rev03     **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.
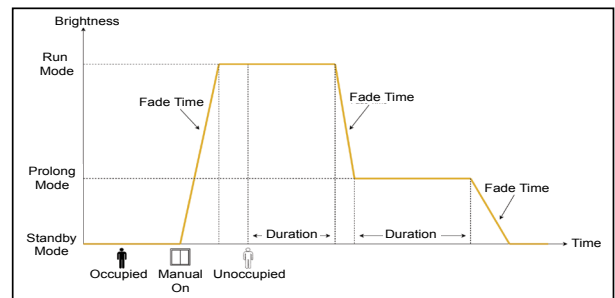


| Mode / Scenario | Wireless Switch | Occupancy Sensor | Ambient Light Sensor |
|---|---|---|---|
| Unprovisioned Mode | - | - | - |
| Switch | On / Off / Scenes | - | - |
| Occupancy | On / Off / Scenes | Auto On / Off | - |
| Vacancy | On / Off / Scenes | Auto Off | - |
| Occupancy with Daylight Harvesting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

## Occupancy Scenario
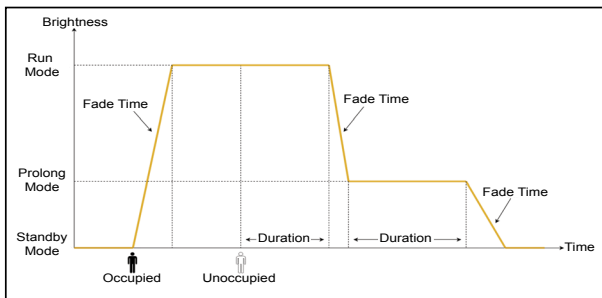


## Vacancy Scenario
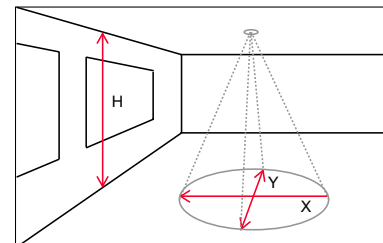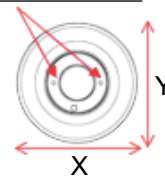


## Occupancy Scenario - with Daylight Harvesting
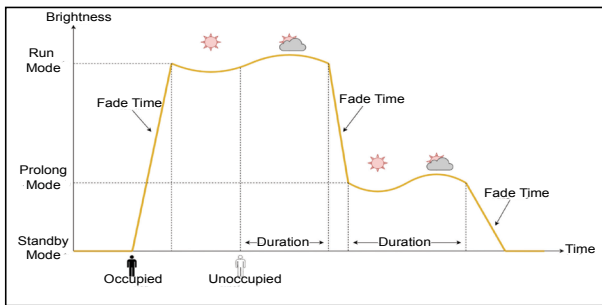


## Occupancy Scenario with Manual Override
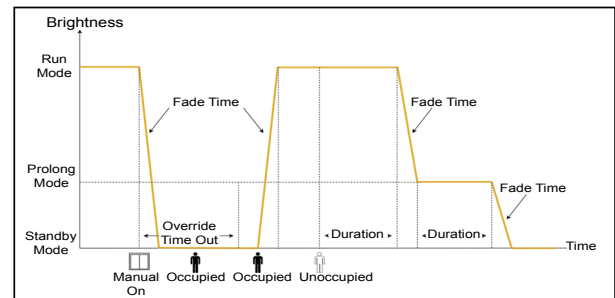


## Occupancy Detection Pattern

| 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