aleo™
LED LIGHTING

Project	
Notes	
Type	Date
Cat. No.	

ILB™ Series — Ultra Efficient Linear LED High Bay

DESCRIPTION
The Aleo ILB™ UXE Series Ultra High Efficiency LED Linear High Bay delivers industry-leading performance with an extremely attractive ROI. The ILB utilizes advanced aisle optics to deliver illumination where its needed and reduce wasted light; this allows facilities to use less luminaires and less energy while saving cost. Precision aisle optics combined with ultra high efficacy and occupancy sensing results in extreme energy savings and optimal ROI.

APPLICATIONS
Provides high output illumination for various commercial / industrial applications with aisles or racking / shelving: warehouse, manufacturing, retail.

DLC LISTED PREMIUM **UL LISTED** **7 LIMITED WARRANTY** **aleoblue™**

ILB Series
2'
75W, 125W, 160W

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

CONTINUOUS DIMMING
0-10V Continuous

Quick Ship
ILB2-75/850/F UXE G4 (SR/RC)
ILB2-125/850/F UXE G4 (SR/RC)
ILB2-160/850/F UXE G4 (SR/RC)

Specification Features

Construction
Rugged and durable construction withstands warehouse environments. Luminaire features white durable finish.

Optical System
Precision-formed, advanced optics for high bay aisle applications. 40 deg. x 125 deg. optics. Efficiently delivers illumination to the desired surfaces while reducing wasted light. Reduces the wattage needed to effectively illuminate warehouse aisles.

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 high-efficiency driver features continuous dimming. Universal voltage (120-277V) for convenient installation. Comes equipped with luminaire quick-disconnect.

Installation / Mounting
Various mounting options available, including suspension, pendant, and surface mount. V-hook hangers and chain accessories included.

Controls / Dimming
Continuous dimming (0-10V). Comes standard with sensor receptacle for plug and play field installation of sensors.

Ordering Information

Example: ILB2-75/850/F UXE G4 (SR/RC)

ILB	2	75	8	50	F	[Blank]	[Blank]	UXE
Series	**Form Factor**	**Nominal Wattage**	**CRI**	**Color Temp¹**	**Lens Diffuser**	**Input Voltage**	**Dimming**	**Designation**
ILB Linear High Bay, Aisle Optics	**2** 2'	**75** 75W **125** 125W **160** 160W	**8** 82+	**50** 5000K	**F** Frosted	**Blank** 120V-277V **480** 480V	**Blank** 0-10V Continuous Dimming	**UXE** Ultra High Efficacy

[Blank]	Options				
(SR/RC) Sensor Ready with sensor receptacle	**Emergency Backup²**	**Controls**		**Accessories**	
	EM1400 1400lm **EM2000** 2000lm **EM2400** 2400lm	**OSDL/BT** Wireless Bluetooth Occupancy Sensor **OSDL/HF/IR** Multi-Level Occ Sensor w/ wireless config. (see pg. 3 for ordering code)		**ACC** Aircraft cable suspension kit **CRD** Cord (see pg.3 for details) **SP10** 10kA Surge Protector **WG** Wire Guard **PMK** Single-point Pendant-mount Kit	

Specifications and Dimensions subject to change without notice.

Form ILB UXE G4 ECO SR/RC / Rev. 05   **Aleo Lighting, Inc.** l www.aleolighting.com l 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	> 160 LPW (typ.)
CRI	82+, R9 > 0
Available CCT[1]	5000K
Color Consistency[3]	5-step MacAdam Ellipse
Rated Life	75,000 hours
L70[4]	> 54,000 hours
Power Factor	> 0.9
THD	< 20%
Dimming	0-10V Continuous (10-100%)
Operating Temp.	-20ºC to 50ºC
Environment	Suitable for Damp Location

Mounting Information
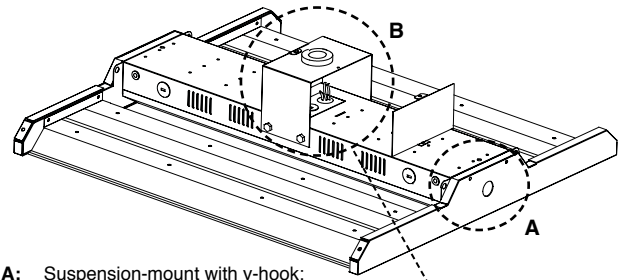
A: Suspension-mount with v-hook: Chain or cable

B: Pendant Mount
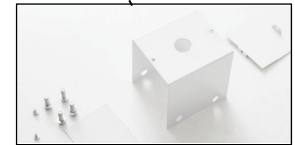
PMK   Pendant-mount Kit (sold separately)

Performance Data

Form Factor	Catalog No.	Rated Wattage (W)	Tested Wattage (W)	5000K	
				Delivered Lumens (lm)	Efficacy (lm/W)
2'	**ILB2-75/850/F UXE G4 (SR/RC)**	75	72	12075	161
	ILB2-125/850/F UXE G4 (SR/RC)	125	127	20125	161
	ILB2-160/850/F UXE G4 (SR/RC)	160	154	25760	161

DLC QPL Data

QPL Model No.	Product ID	Technical Req.	Classification	Primary Use
ILB2-75/850/F UXE G4 (SR/RC)	P3GVLITS	5.1	Premium	High-Bay Luminaires for Commercial and Industrial Buildings
ILB2-125/850/F UXE G4 (SR/RC)	PWYZWS1K	5.1	Premium	High-Bay Luminaires for Commercial and Industrial Buildings
ILB2-160/850/F UXE G4 (SR/RC)	PF2159KT	5.1	Premium	High-Bay Luminaires for Commercial and Industrial Buildings

DLC LISTED PREMIUM

NOTES:

[1]   Quick ship: 5000K. Other CCTs may require a lead time or be special order

[2]   IMPORTANT: THE BATTERY MUST BE RECHARGED EVERY THREE (3) MONTHS. IF NOT RECHARGED ACCORDINGLY, BATTERY MAY FAIL AND VOID WARRANTY
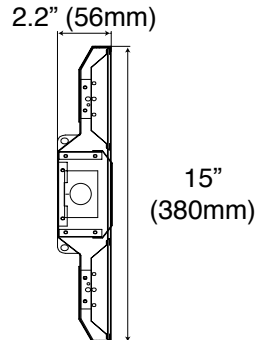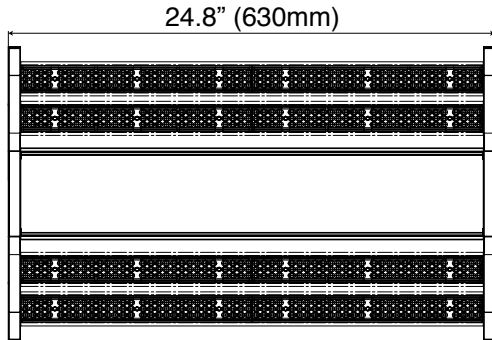
[3]   Typical color consistency. May vary or be changed.

[4]   L70 hours calculated based on LED package manufacturer LM80 report and ISTMT report of LED in luminaire. Stated values are for select catalog numbers.
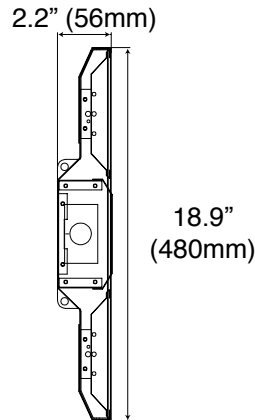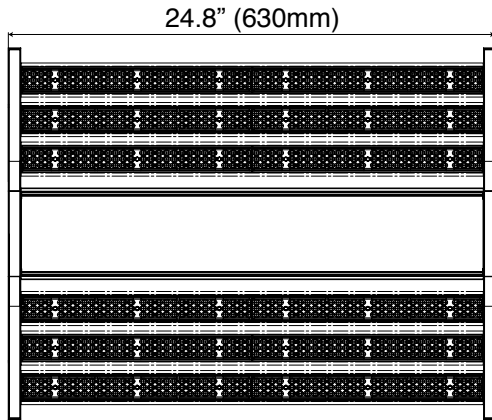
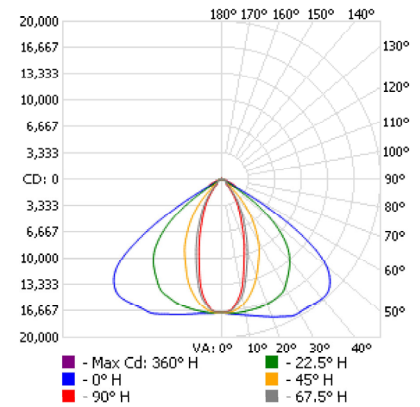**Specifications and Dimensions subject to change without notice.**

Product **Dimensions**

ILB2-**75** I ILB-**125**

24.8" (630mm)

2.2" (56mm)

15" (380mm)

ILB2-**160**

24.8" (630mm)

2.2" (56mm)

18.9" (480mm)

Photometric **Distribution**

180° 170° 160° 150° 140°
20,000
16,667
13,333
10,000
6,667
3,333
CD: 0
3,333
6,667
10,000
13,333
16,667
20,000
130°
120°
110°
100°
90°
80°
70°
60°
50°
VA: 0° 10° 20° 30° 40°

- Max Cd: 360° H   - 22.5° H
- 0° H   - 45° H
- 90° H   - 67.5° H

Accessory Options

***Plug and Play Sensor**

Easy field install Occ. Sensor

Model No. **SHF-OSDL/IR-PP1-LV-10V-A01**
Microwave, Occ. Sensor w/ Daylight

Model No. **SPIR-OSDL/BTEZ-PP1-DC-100**
SimplBlue Bluetooth PIR Occ. Sensor w/ Daylight

Mounting Accessories

PMK	Pendant-mount kit (1/2" NPT hole size)
SMB	Surface-mount bracket
ACC	Aircraft Cable - 10' 1/16 cable toggle kit with grip lock
HB-MH-1/2 NPT	Mounting Hook compatible with PMK, 1/2" NPT chase Nipple, White Finish

Controls

OSDL/HF/IR	Multi-Level PIR Occ Sensor with photocell function and Wireless IR config.
OSDL/BT	Wireless Bluetooth Occupancy Sensor

Surge Protector

SP10	10kA Surge Protector

Cord Set

CRD-A	SO Cord 6' 18/3
CRD-B	SO Cord 10' 18/3
CRD-C	SO Cord 12' 18/3
CRD-D	SO Cord 15' 18/3
CRD-E	SO Cord 20' 18/3
CRD-F	SO Cord 25' 18/3
CRD-G	SO Cord 30', 18/3

Plug

PLG-1	Straight plug, 125V, NEMA 5-15P
PLG-2	Twist-lock, 125V, NEMA L5-15P
PLG-4	Twist-lock, 277V, NEMA L7-15P
PLG-5	Twist-lock, 480V, NEMA L8-20P
PLG-6	Twist-lock, 250V, NEMA L6-15P

Specifications and Dimensions subject to change without notice.

Form ILB UXE G4 ECO SR/RC / Rev. 05   **Aleo Lighting, Inc.** I www.aleolighting.com I Ph: 877-358-8825

Accessory Options (Cont'd)

Comes with junction box pre-assembled and Step-Down transformer mounted

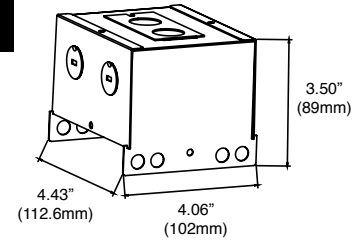Requires mounting of the bracket and installation of the junction box in the field
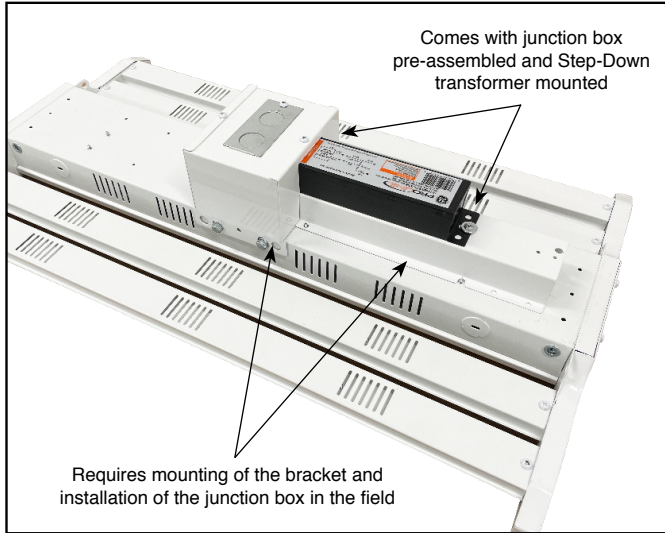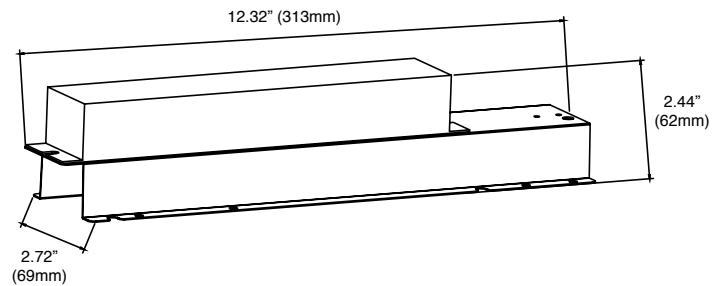
Transformer Kit

XLB-EXT-480V-250W Field-install external 480V step-down transformer kit, for XLB/ILB, 250W(VA) max, magnetic core and coil, for use on single phase

Junction Box

3.50" (89mm)

4.43" (112.6mm)

4.06" (102mm)

Step-Down Transformer

12.32" (313mm)

2.44" (62mm)

2.72" (69mm)

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.
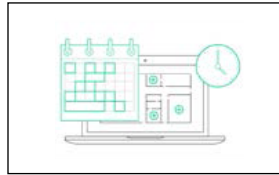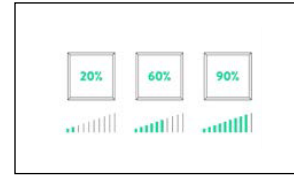
DLC NLC Qualified.

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
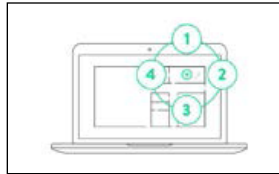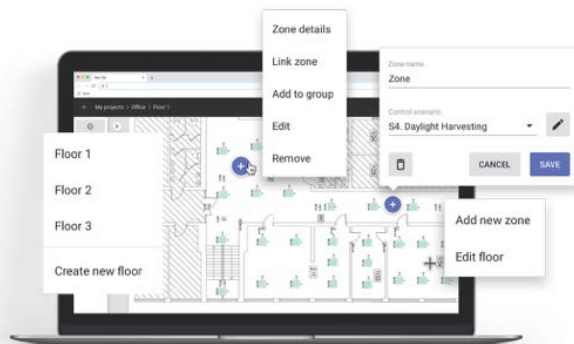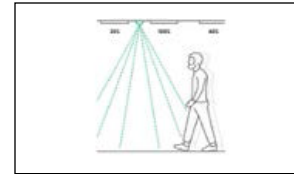- Per zone Daylight Control

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

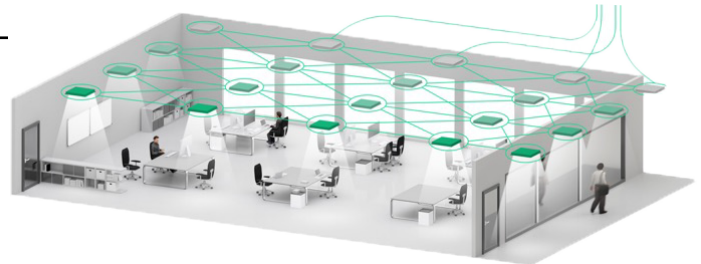Scalability to thousands of devices

The most advanced encryption standards as well as the cutting-edge device authentication
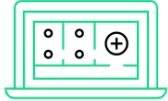
No single point of failure (no central device)

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 ILB UXE G4 ECO SR/RC / Rev. 05   **Aleo Lighting, Inc.** I www.aleolighting.com I Ph: 877-358-8825
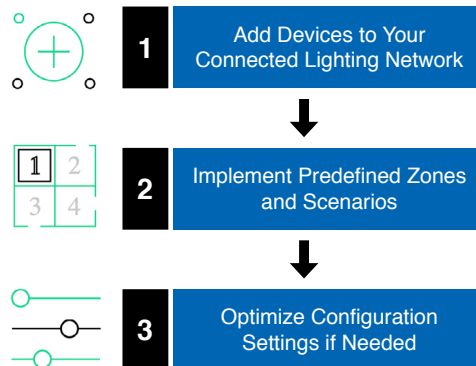
Planning

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
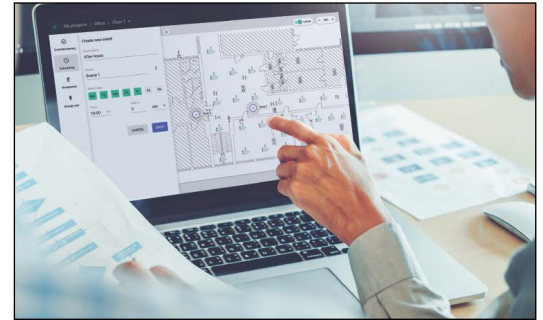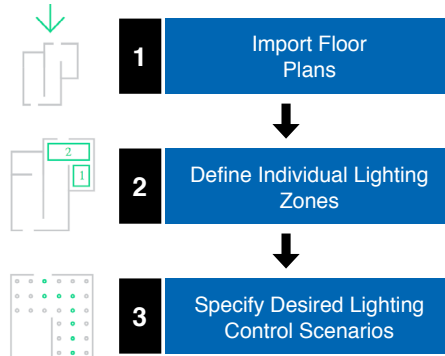
Implementation

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	**EnOcean BLE Single-Rocker Switch**	**EnOcean BLE Double-Rocker Switch**	**aleoBlue Gateway**
Model: -OSDL/BT	Model: ESRPB	Model: EDRPB	Model: SGW-101

Specifications and Dimensions subject to change without notice.

Form ILB UXE G4 ECO SR/RC / Rev. 05   **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.
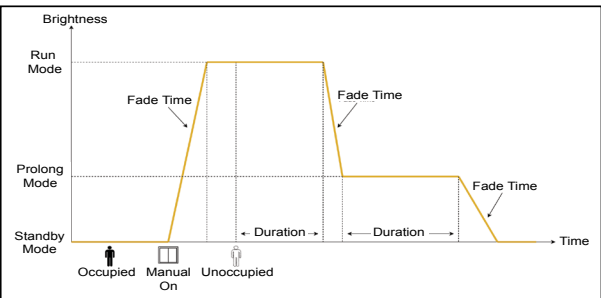
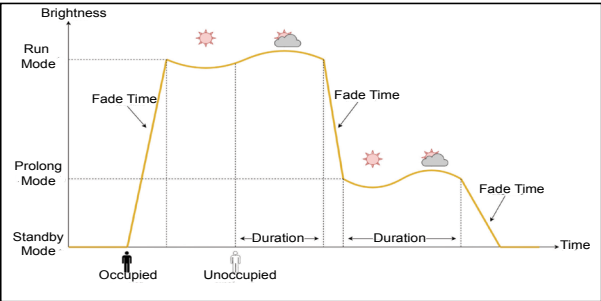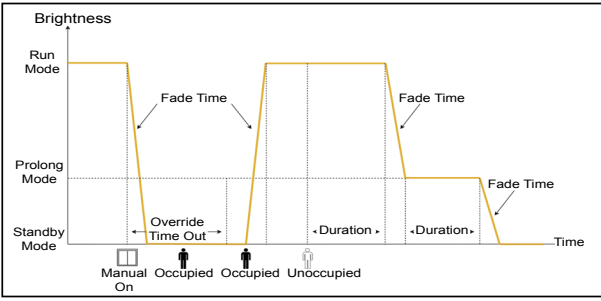| Mode / Scenario	Wireless Switch	Occupancy Sensor	Ambient Light Sensor
Unprovisioned Mode	-	-	-
Switch	On / Off / Scenes	-	-
Occupancy	On / Off / Scenes	Auto On / Off	-
Vacancy	On / Off / Scenes	Auto Off	-
Occupancy with Daylight Harvesting	On / Off / Scenes	Auto On / Off	Enabled
Vacancy with Daylight Harvesting	On / Off / Scenes	Auto Off	Enabled

Occupancy Scenario
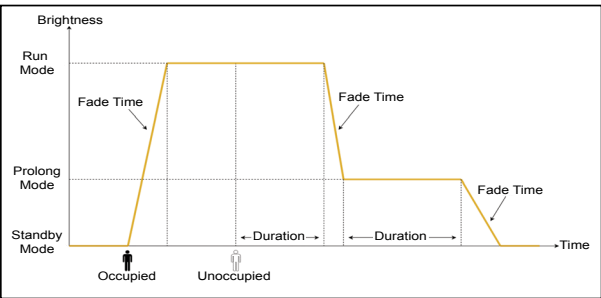
Vacancy Scenario

Occupancy Scenario - with Daylight Harvesting

Occupancy Scenario with Manual Override

Occupancy Detection Pattern

HBL: High Bay Lens-Top View at 8 ft (2.4m)

Corresponding to the Arrow on Gasketed Lens

HBL - Side View

LBL: Low Bay Lens-Top View at 8 ft (2.4m)

LBL - Side View

Aleo Lighting, Inc.
www.aleolighting.com
10988 Bloomfield Ave.
Santa Fe Springs, CA 90670
Ph: 877-358-8825

Form ILB UXE G4 ECO SR/RC / Rev. 05