aleo™
LED LIGHTING

Project	
Notes	
Type	Date
Cat. No.	

XLB™ UXE Series — Ultra Efficient Linear LED High Bay

DESCRIPTION

The Aleo XLB™ UXE Series Ultra High Efficiency LED Linear High Bay delivers industry-leading performance with an extremely attractive ROI. Superior performance, ultra high-efficacy and premium quality provides superior solution for high ceiling applications, especially warehouse spaces. Delivering high output, quality light and low energy consumption can improve warehouse safety and productivity, lower maintenance cost, and reducing operating costs.

APPLICATIONS

Provides high output illumination for various commercial industrial applications with high ceilings: warehouse, manufacturing, gymnasiums, retail.

DLC LISTED PREMIUM **c(UL)us LISTED** **10 YEAR WARRANTY** **aleoblue™**

XLB UXE Series

2' 70W, 100W, 150W

Specification Features

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

Optical System
Reflector systems features highly reflective coating, delivering adequate light for high-mounting buildings. Diffuser lens reduces glare and improves occupant working conditions 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[1]
10-year Limited Warranty. See warranty documentation for more information. (Must register for 10-year warranty)

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. Suitable for use with dimmers, sensors, daylight harvesting and other control strategies to achieve deeper energy-savings and code compliance.

Rated Life 100,000 hours
Limited Warranty 10-years
Efficacy Up to 161 LPW
Continuous Dimming

CONTINUOUS DIMMING 0-10V Continuous

Quick Ship

XLB2-100/850/F UXE G3
XLB2-70/850/F UXE G4
XLB2-100/850/F UXE G4
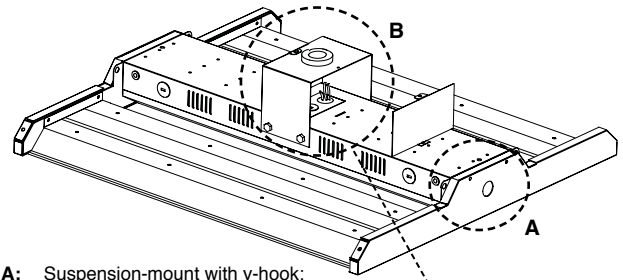XLB2-150/850/F UXE G4

Ordering Information

Example: XLB2-100/850/F UXE G4

XLB	2	100	8	50	F	[Blank]	[Blank]	UXE
Series	**Form Factor**	**Nominal Wattage**	**CRI**	**Color Temp[2]**	**Lens Diffuser**	**Input Voltage**	**Dimming**	**Generation**
XLB Low-Profile Ultra Efficient High Bay	**2** 2'	**2'** **70** 70W **100** 100W **150** 150W	**8** 82+	**50** 5000K	**F** Frosted	**Blank** 120V-277V **480** 480V	**Blank** 0-10V Continuous Dimming	**UXE** Ultra High Efficacy

Options

Emergency Backup	Controls		Accessories	
EM1400 1400lm **EM2000** 2000lm	**OS** **OSDL** **OSDL/BT** **OSDL/IR** **OSDL/BTEZ-B**	Occupancy Sensor Occ. Sensor w/ Daylight Wireless Bluetooth Occupancy Sensor Multi-Level Occ Sensor w/ wireless config. SimplBlue Occupancy Sensor	**ACC** **CRD** **SP10**	Aircraft cable suspension kit Cord (see pg.3 for details) 10kA Surge Protector

Specifications and Dimensions subject to change without notice.

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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[2]	5000K
Color Consistency[3]	5-step MacAdam Ellipse
Rated Life	100,000 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'	**XLB2-70/850/F UXE G4**	70	69.08	11270	161
	XLB2-100/850/F UXE G3	100	100.90	16100	161
	XLB2-100/850/F UXE G4	105	102.36	16905	161
	XLB2-150/850/F UXE G4	150	151.17	24150	161

NOTES:

[1]   Must register project to qualify for 10-year Warranty
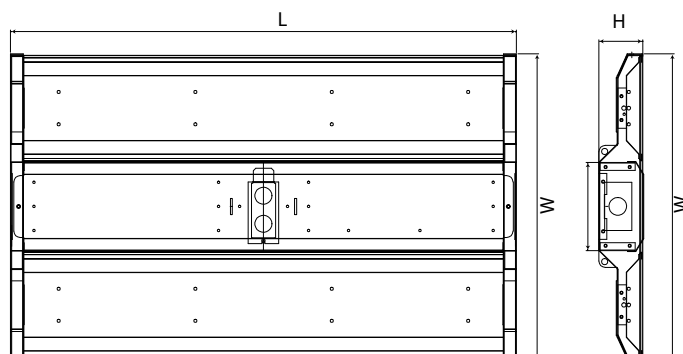
[2]   Quick ship: 5000K. Other CCTs may require a lead time or be special order

[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**

Model No.	L	W	H
XLB2-100/850/F UXE G3	24.8" (630mm)	15" (380mm)	2.2" (56mm)
XLB2-70/850/F UXE G4	24.8" (630mm)	15" (380mm)	2.2" (56mm)
XLB2-100/850/F UXE G4	24.8" (630mm)	15" (380mm)	2.2" (56mm)
XLB2-150/850/F UXE G4	24.8" (630mm)	18.9" (480mm)	2.2" (56mm)

DLC QPL Data

QPL Model No.	Product ID	Technical Req.	Classification	Primary Use
XLB2-70/840/F UXE G4	PL97XB6TNXC1	4.4	Premium	High-Bay Luminaires for Commercial and Industrial Buildings
XLB2-70/850/F UXE G4	PL1HRG5XFXPU	4.4	Premium	High-Bay Luminaires for Commercial and Industrial Buildings
XLB2-100/850/F UXE G3	PLDZANU1UOGQ	4.3	Premium	High-Bay Luminaires for Commercial and Industrial Buildings
XLB2-100/840/F UXE G3	PLPUTN3NW3PG	4.3	Premium	High-Bay Luminaires for Commercial and Industrial Buildings
XLB2-100/840/F UXE G4	PLFY2X4UK0DA	4.4	Premium	High-Bay Luminaires for Commercial and Industrial Buildings
XLB2-100/850/F UXE G4	PLXVD4QHH4VU	4.4	Premium	High-Bay Luminaires for Commercial and Industrial Buildings
XLB2-150/840/F UXE G4	PLE4ZCBK8UPA	4.4	Premium	High-Bay Luminaires for Commercial and Industrial Buildings
XLB2-70/850/F UXE G4	PLB5DYWF26JP	4.4	Premium	High-Bay Luminaires for Commercial and Industrial Buildings

Accessory Options

Mounting Accessories
VH V-hook hangers
CHS Chain set (105mm)
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

Plug
PLG-1 Straight plug, 120V
PLG-2 Twist-lock, 120V
PLG-3 Straight plug, 277V
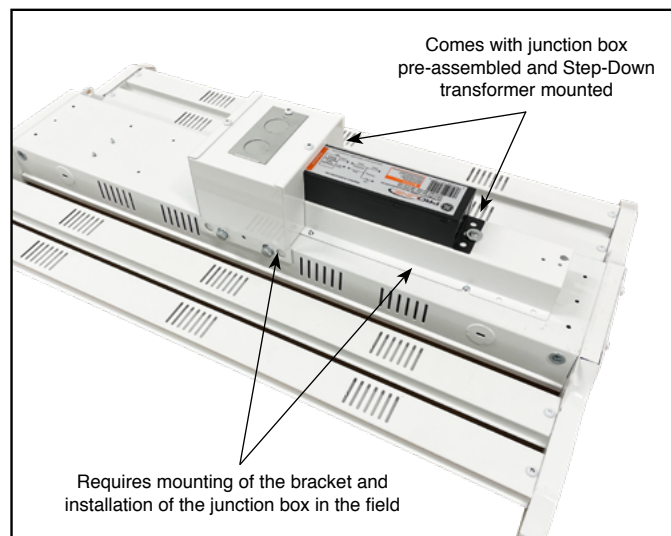**PLG-4** Twist-lock, 277V
PLG-5 Twist-lock, 480V

Cord Set
CRD-A SJTOW Cord 6' 18/3
CRD-B SJTOW Cord 10' 18/3
CRD-C SJTOW Cord 12' 18/3

Surge Protector
SP10 10kA Surge Protector

Specifications and Dimensions subject to change without notice.

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
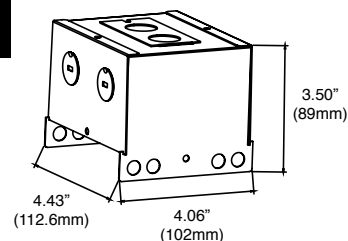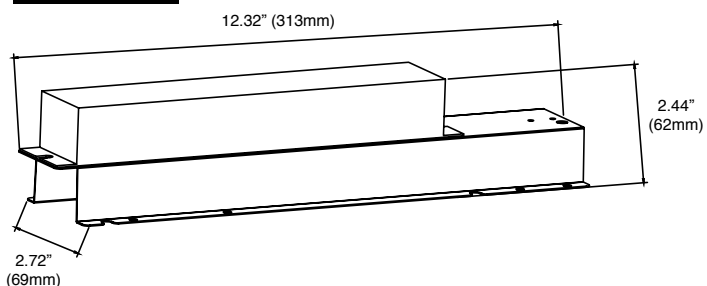
Transformer Kit

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)

Specifications and Dimensions subject to change without notice.

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Control Pre-Commissioning*

Example: XLB2-100/850/F UXE G3 **OSDL/IR** L2-10H-3L-10M-30M

L2	10H	3L	10M	30M
Lens / Coverage	**High Level**	**Low Level**	**Time Delay**	**Cut-Off**
L2	**10H** 100%	**1L** 10%	**30S** 30 sec.	**#M** 1-59 min.
8' height (60' dia.)	**9H** 90%	**2L** 20%	**#M** 1-30 min.	**#H** 1-5 hrs.
L3	**8H** 80%	**3L** 30%		**0** Disabled
20' height (40' dia.)	**7H** 70%	**4L** 40%	# = enter no. of minutes from 1 to 30 min.	
L7	**6H** 60%	**5L** 50%		# = enter no. of minutes or hours
40' height (100' dia.)	**5H** 50%	**6L** 60%		
		7L 70%		

High Level　When the sensor detects motion the dimming control output ramps up to the selected HIGH light level.

Low Level　After the sensor stops detecting motion and the time delay expires the dimming control output fades down to the selected LOW light level.

Time Delay　The selected time period that must elapse after the last time the sensor detects motion for the electric lights to fade to LOW mode

Cut-Off　The time period that must elapse after the lights fade to Low mode and the sensor detects no motion for the electric lights to turn OFF.

Ramp Up　Time period for light level to increase from LOW to HIGH.
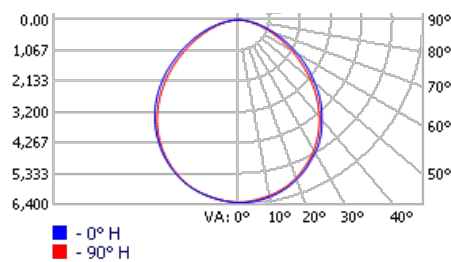
Fade Down　Time period for light level to decrease from HIGH to LOW.

** Only Available for OSDL/IR

Photometric Data

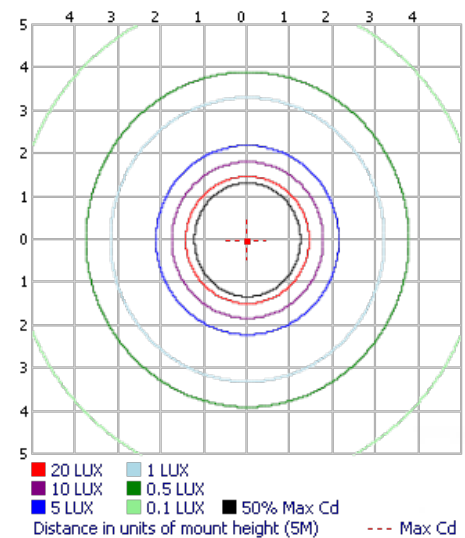**XLB2-100/850/F UXE G4**　Tested in accordance to IESNA LM-79

Polar Graph

- 0° H
- 90° H

Zonal Lumen Summary

ZONE	LUMENS	% LUMINAIRE
0-30	4,880.9	30%
0-40	7,932.7	48.8%
0-60	13,490.7	83%
60-90	2,765.4	17%
70-100	1,050.4	6.5%
90-120	0.000	0%
0-90	16,256.1	100.0%
90-180	0.000	0.3%
0-180	16,256.1	100%

Illuminance at a Distance - Max. 30 ft.

HEIGHT(FT)	FOOTCANDLE	HORIZONTAL	VERTICAL	HORIZONTAL	VERTICAL
6.00	175.90 LUX	14.8	15.9	50.0	56.2
12.00	43.92 LUX	29.6	31.8	100.0	112.4
18.00	19.54 LUX	44.4	47.6	150.0	168.6
24.00	10.99 LUX	59.2	63.5	199.9	224.9
30.00	7.04 LUX	74	79.4	249.9	281.1
		BEAM ANGLE		FIELD ANGLE	
		101.9°	105.8°	153°	155.9°

20 LUX　1 LUX
10 LUX　0.5 LUX
5 LUX　0.1 LUX　50% Max Cd
Distance in units of mount height (5M)　--- Max Cd

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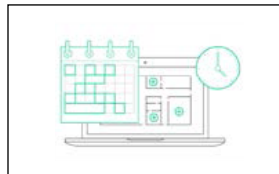## AleoBlue Wireless Bluetooth Controls

DLC LISTED

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

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
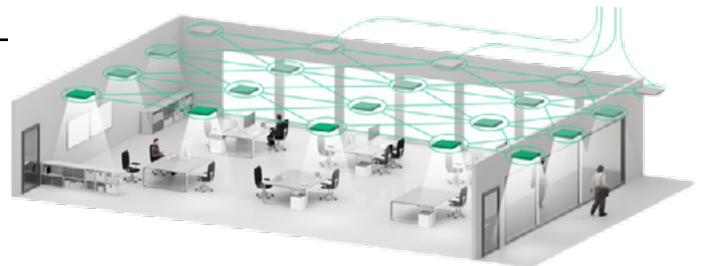
Scalability to thousands of devices

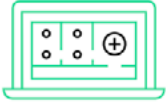The most advanced encryption standards as well as the cutting-edge device authentication

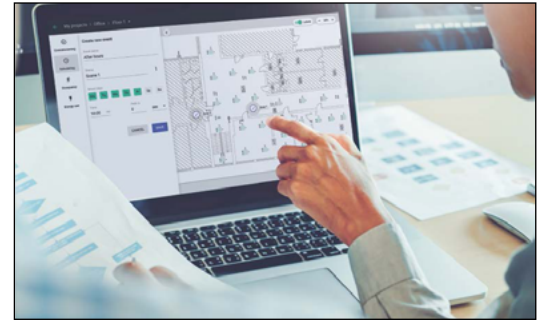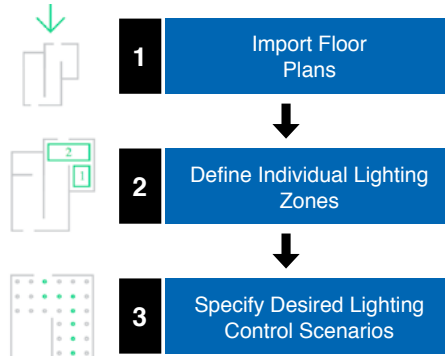No single point of failure (no central device)

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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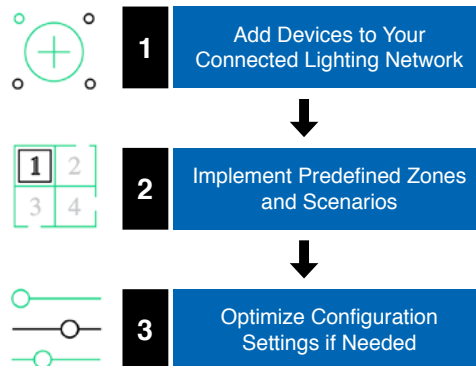
Planning

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

EnOcean BLE Single-Rocker Switch
Model: ESRPB

EnOcean BLE Double-Rocker Switch
Model: EDRPB

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Form XLB UXE G4/ Rev. 07　　　　**Aleo Lighting, Inc.** | www.aleolighting.com | Ph: 877-358-8825
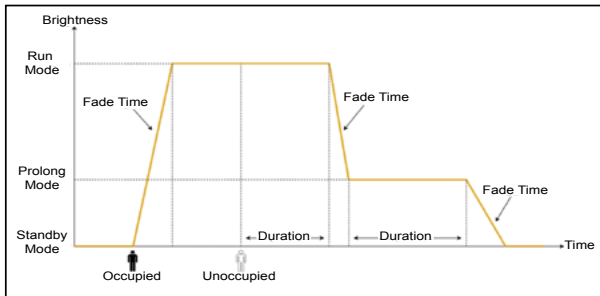
Lighting Control Scenarios

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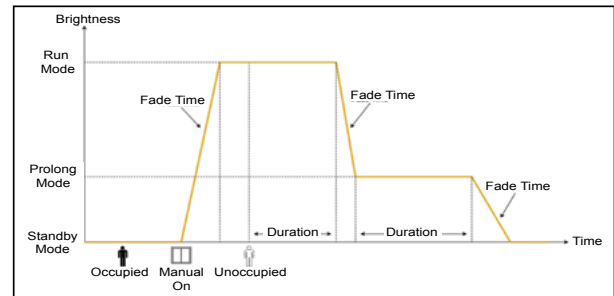
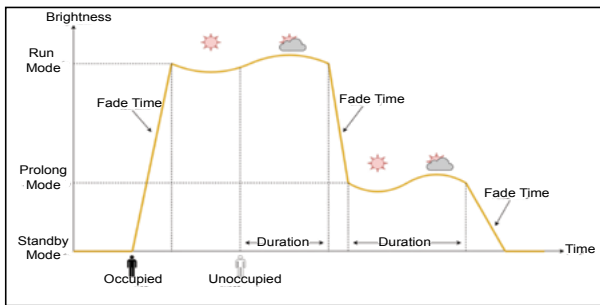| Mode / Scenario	Wireless Switch	Occupancy Sensor	Ambient Light Sensor
Unprovisioned Mode	-	-	-
Switch	On / Off / Scenes	-	-
Occupancy	On / Off / Scenes	Auto On / Off	-
Vacancy	On / Off / Scenes	Auto Off	-
Occupancy with Daylight Harvesting	On / Off / Scenes	Auto On / Off	Enabled
Vacancy with Daylight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

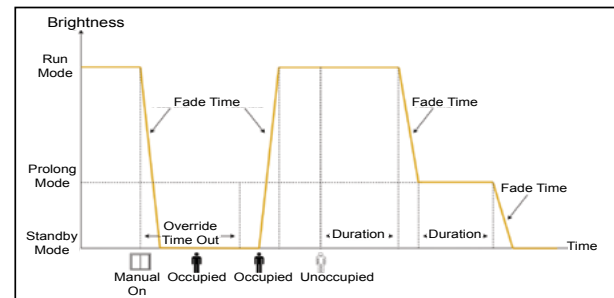### Occupancy Scenario

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

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aleo™ LED LIGHTING