Project	
Notes	
Type	Date
Cat. No.	

XLB™ UXE Series — Ultra Efficient Linear LED High Bay

XLB UXE Series

2' 70W, 100W, 150W

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.

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

CONTINUOUS DIMMING 0-10V Continuous

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.

Quick Ship

XLB2-70/850/F UXE G4 ECO (SR)
XLB2-100/850/F UXE G4 ECO (SR)
XLB2-150/850/F UXE G4 ECO (SR)

Ordering Information

Example: XLB2-100/850/F UXE G4 ECO (SR)

XLB	2	100	8	50	F	[Blank]	[Blank]	UXE	ECO
Series	**Form Factor**	**Nominal Wattage**	**CRI**	**Color Temp[2]**	**Lens Diffuser**	**Input Voltage**	**Dimming**	**Generation**	**Form Factor**
XLB Low-Profile Ultra Efficient High Bay	**2** 2'	**2'** **70** 70W **100** 105W **150** 150W	**8** 82+	**50** 5000K	**F** Frosted	**Blank** 120V-277V **480** 480V	**Blank** 0-10V Continuous Dimming	**UXE** Ultra High Efficacy	**ECO** Slim Form

[Blank]	Options		
	Emergency Backup	**Controls**	**Accessories**
(SR) aleoBlue Sensor Ready	**EM1400** 1400lm **EM2000** 2000lm **EM2400** 2400lm	**OS** Occupancy Sensor **OSDL** Occ. Sensor w/ Daylight **OSDL/BT** Wireless Bluetooth Occupancy Sensor **OSDL/IR** Multi-Level Occ Sensor w/ wireless config.	**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

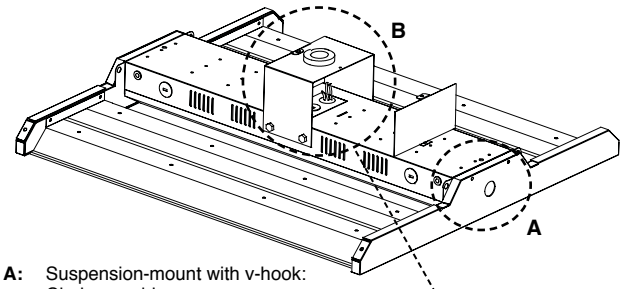
Specifications and Dimensions subject to change without notice.

Aleo Lighting, Inc. I www.aleolighting.com I Ph: 877-358-8825

Performance Summary

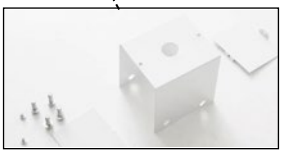
Input Voltage	120V-277V
Input Frequency	50/60 Hz
Rated Wattage	See Performance Table
Delivered Lumens	See Performance Table
Efficacy	> 160 LPW (typ.)
CRI	82+, R9 > 0
Available CCT[2]	5000K
Color Consistency[3]	5-step MacAdam Ellipse
Rated Life	100,000 hours
L70[4]	> 54,000 hours
Power Factor	> 0.9
THD	< 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

				5000K	
Form Factor	Catalog No.	Rated Wattage (W)	Tested Wattage (W)	Delivered Lumens (lm)	Efficacy (lm/W)
2'	XLB2-70/8xx/F UXE G4 ECO (XX)	70	70.59	11270	161
	XLB2-100/8xx/F UXE G4 ECO (XX)	105	105.42	16905	161
	XLB2-150/8xx/F UXE G4 ECO (XX)	150	150.79	24150	161

NOTES:

1 Must register project to qualify for 10-year Warranty

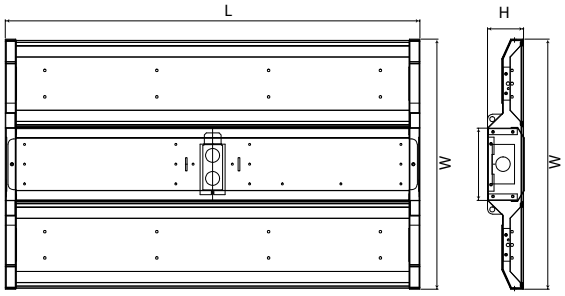
2 Quick ship: 5000K. Other CCTs may require a lead time or be special order

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
XLB2-70/850/F UXE G4 ECO	24.8” (630mm)	15” (380mm)	2.2” (56mm)
XLB2-70/850/F UXE G4 ECO (SR)	24.8” (630mm)	15” (380mm)	2.2” (56mm)
XLB2-100/850/F UXE G4 ECO (SR)	24.8” (630mm)	15” (380mm)	2.2” (56mm)
XLB2-150/850/F UXE G4 ECO (SR)	24.8” (630mm)	18.9” (480mm)	2.2” (56mm)
XLB2-150/850/F UXE G4 ECO	24.8” (630mm)	18.9” (480mm)	2.2” (56mm)

Accessory Options

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

OS	Occupancy Sensor (On/Off)
OSDL	Multi-Level PIR Occ. Sensor with Daylight function
OSDL/IR	Multi-Level PIR Occ Sensor with Daylight 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, 120V, NEMA 5-15P
PLG-2	Twist-lock, 120V, NEMA L5-15P
PLG-3	Straight plug, 277V, NEMA 7-15P
PLG-4	Twist-lock, 277V, NEMA L7-15P
PLG-5	Twist-lock, 480V, NEMA L8-20P
PLG-6	Twist-lock, 250V, NEMA L6-15P

DLC QPL Data

QPL Model No.	Product ID	Technical Req.	Classification	Primary Use
XLB2-70/840/F UXE G4 ECO (XX)	PLSKWTA9BMUS	5.1	Premium	High-Bay Luminaires for Commercial and Industrial Buildings
XLB2-70/850/F UXE G4 ECO (XX)	PLRR71IN8T30	5.1	Premium	High-Bay Luminaires for Commercial and Industrial Buildings
XLB2-100/840/F UXE G4 ECO (XX)	PLMEAFU4JJF5	5.1	Premium	High-Bay Luminaires for Commercial and Industrial Buildings
XLB2-100/850/F UXE G4 ECO (XX)	PLYYDXWQK0B9	5.1	Premium	High-Bay Luminaires for Commercial and Industrial Buildings
XLB2-150/840/F UXE G4 ECO (XX)	PLY7EEJVO6OO	5.1	Premium	High-Bay Luminaires for Commercial and Industrial Buildings
XLB2-150/850/F UXE G4 ECO (XX)	PLER2FITQL24	5.1	Premium	High-Bay Luminaires for Commercial and Industrial Buildings

Specifications and Dimensions subject to change without notice.

Control Pre-Commissioning*

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

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

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.

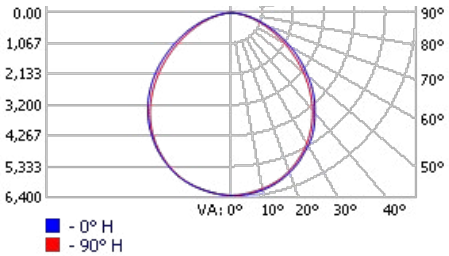
Fade Down Time period for light level to decrease from HIGH to LOW.

** Only Available for OSDL/IR

Photometric Data

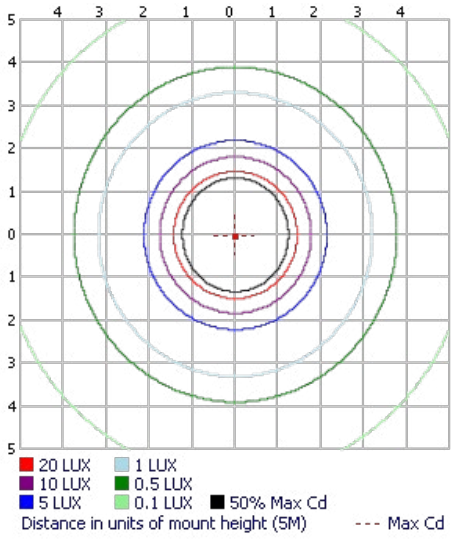
XLB2-100/850/F UXE G4 Tested in accordance to IESNA LM-79

Polar Graph



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 ANGEL		FIELD ANGEL	
		101.9°	105.8°	153°	155.9°

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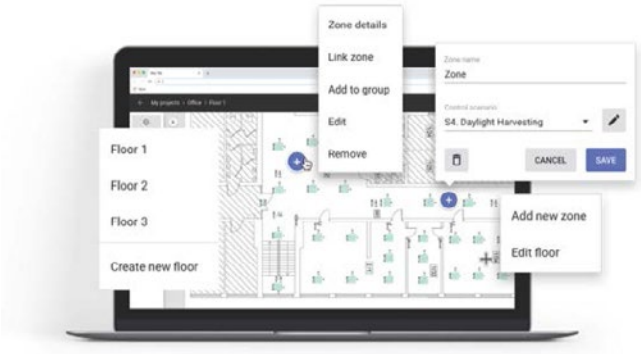
AleoBlue Wireless Bluetooth Controls

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

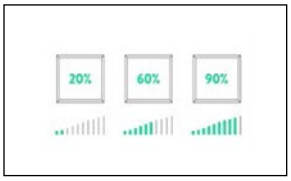
- Lighting Zones / Grouping
- Manual control of individual lights
- On Power up Behavior
- Zone Linking
- Vacancy Sensing
- Per fixture Daylight Control
- Per zone Daylight Control



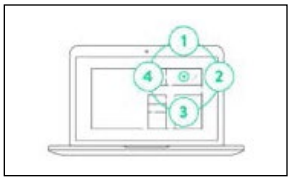
- Optimized Energy Consumption
- Less Hassle with On-Site Adjustments
- More Savings
- Increased Safety
- More Flexibility

Scheduling

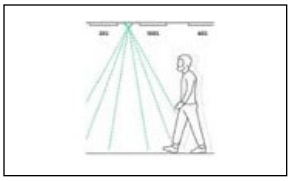
High and Low End Trim



Scenes



Occupancy Sensing



- Intuitive and user-friendly web and iOS apps
- No specialized training or lighting control 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

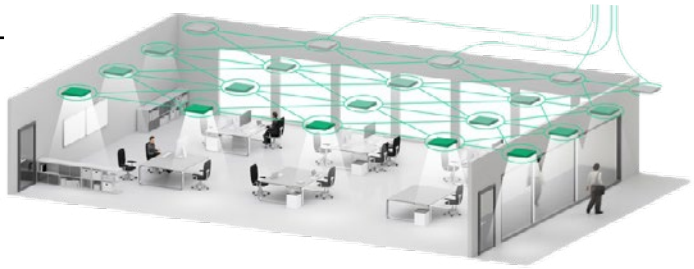
The fastest low-power communication

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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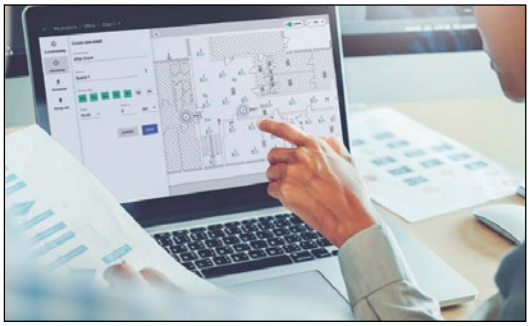
Learn More

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.

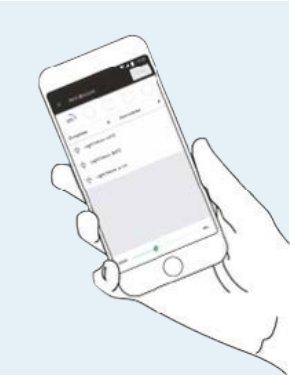
1. Import Floor Plans
2. Define Individual Lighting Zones
3. Specify Desired Lighting Control Scenarios



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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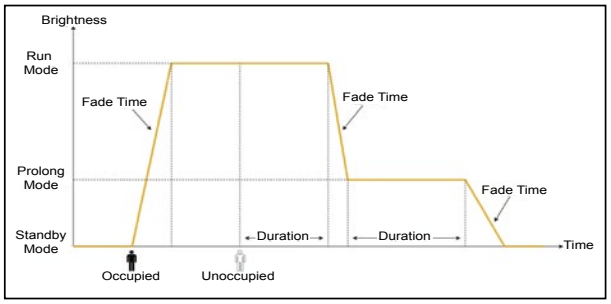
Lighting Control Scenarios

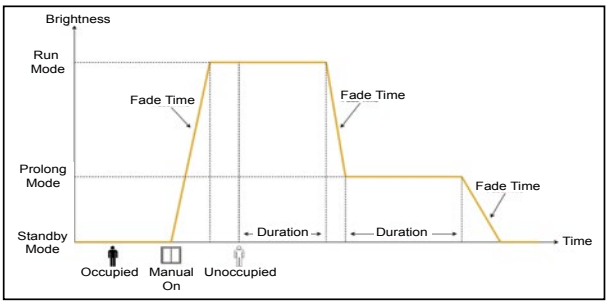
Multiple lighting control scenarios are available once the Bluetooth mesh Node is provisioned. At each scenario, duration, fade time and target brightness can be configured at any time with the iOS app.

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

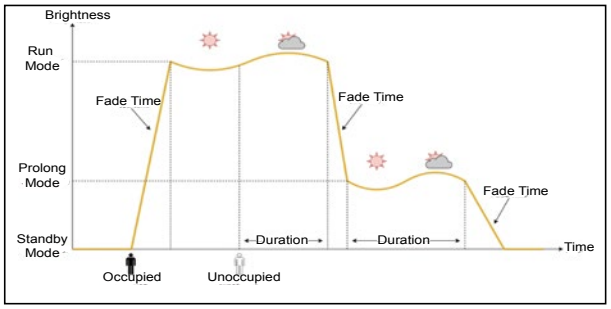
Occupancy Scenario



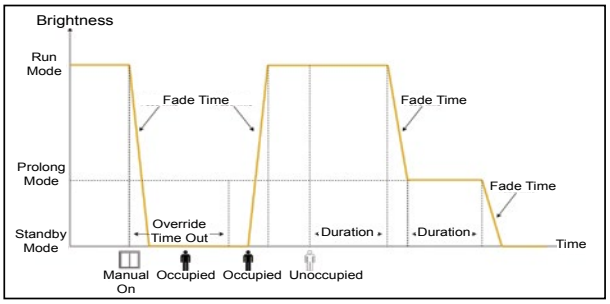
Vacancy Scenario



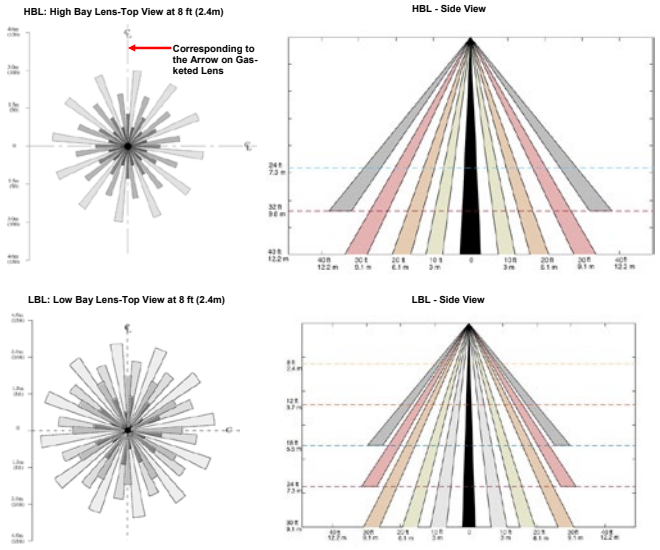
Occupancy Scenario - with Daylight Harvesting



Occupancy Scenario with Manual Override



Occupancy Detection Pattern



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