

Project	
Notes	
Type	Date
Cat. No.	

SLB™ XE Series

Slim Linear LED High Bay

DESCRIPTION

The Aleo SLB™ XE and SLB™ XE ECO Series Slim Linear High Bay delivers industry-leading performance with an extremely attractive ROI. Superior performance, ultra high-efficacy and premium quality provides an economic 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.

Specification Features



SLB XE Series

- 2' 90W, 135W, 162W, 215W
- 4' 225W, 275W, 320W

- Rated Life 75,000 hours
- Limited Warranty 7-years
- Efficacy Up to 131 LPW
- Continuous Dimming

Construction

Rugged and durable construction withstands warehouse environments. Luminaire features matte white durable finish. Suitable for damp location.

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

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

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

- SLB2-090/840/F XE G4 ECO (SR)
- SLB2-090/850/F XE G4 ECO (SR)
- SLB2-162/840/F XE G4 ECO (SR)
- SLB2-162/850/F XE G4 ECO (SR)
- SLB2-178/850/F XE G4 ECO (SR)
- SLB2-215/840/F XE G4 ECO (SR)
- SLB2-215/850/F XE G4 ECO (SR)
- SLB4-225/850/F XE G4 (SR)
- SLB4-275/850/F XE G4 ECO (SR)

Ordering Information

Example: SLB2-162/850/F XE G4 ECO (XX)

SLB	2	162	8	50	F	[Blank]	[Blank]	XE	ECO		
Series	Form Factor	Nominal Wattage		CRI	Color Temp		Lens Diffuser	Input Voltage	Dimming	Generation	Form Factor
SLB	2' 2'	090 85W	225 210W	8	40 4000K ¹	F Frosted	Blank	0-10V	XE	Blank	
Slim	4' 4'	135 130W	275 255W	83+	50 5000K		120V-277V	Continuous	Ultra High Efficacy	Standard Form	
Linear		162 155W	320 300W				480 480V	Dimming		ECO	
High Bay		178 170W								Slim Form	
		215 210W									

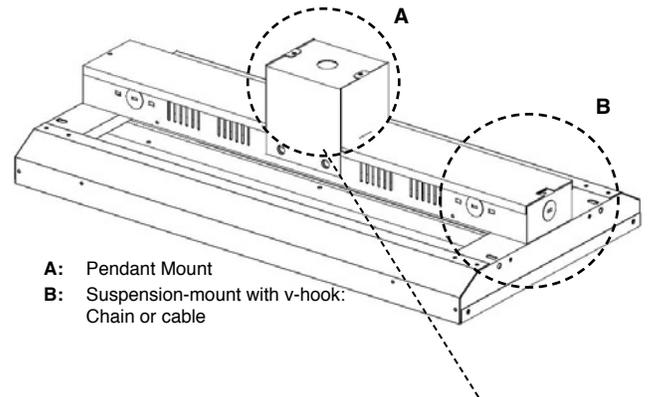
[Blank]	Options		
(SR) AleoBlue Sensor Ready	Emergency Backup		Controls
	EM1400 1400lm		OS Occupancy Sensor
	EM2000 2000lm		OSDL Occ. Sensor w/ Daylight
	EM2400 2400lm		OSDL/BT AleoBlue Wireless Bluetooth Occupancy Sensor
			OSDL/IR Multi-Level Occ Sensor w/ wireless config.
			OSDL/BTEZ-B SimplBlue Occupancy Sensor
	Accessories		
	WG Wire Guard		
	PMK Single-point Pendant-mount Kit		
	ACC Aircraft cable suspension kit		
	CRD Cord (see pg. 4 for details)		
	SP10 10K Surge Protector		

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	> 135 LPW (typ.)
CRI	83+, R9 > 0
Available CCT ¹	4000K, 5000K
Color Consistency ²	5-step MacAdam Ellipse
Rated Life	75,000 hours
L70 ³	> 54,000 hours
Power Factor	> 0.9
THD	< 20%
Dimming	0-10V Continuous (10-100%)
Operating Temp.	-20°C to 50°C
Environment	Suitable for Damp Location

Mounting Information



- A: Pendant Mount
- B: Suspension-mount with v-hook:
Chain or cable



PMK Pendant-mount Kit (sold separately)

Performance Data

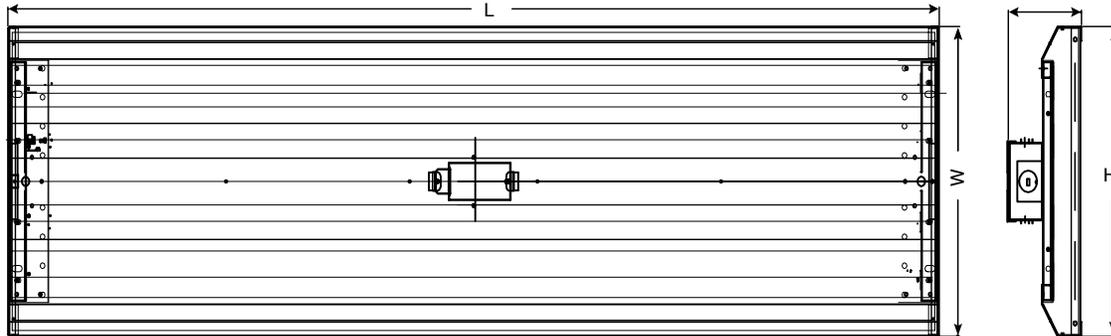
Lens Type	Form Factor	Catalog No.	Rated Wattage (W)	Tested Wattage (W)	4000K ¹		5000K	
					Delivered Lumens (lm)	Efficacy (lm/W)	Delivered Lumens (lm)	Efficacy (lm/W)
Frosted Lens	2'	SLB2-090/8xx/F XE G4 ECO (XX)	85	82.88	11475	135	11560	136
		SLB2-135/8xx/F XE G4 ECO (XX)	130	129.09	17550	135	17680	136
		SLB2-162/8xx/F XE G4 ECO (XX)	155	148.99	20925	135	21080	136
		SLB2-178/8xx/F XE G4 ECO (XX)	170	164.27	22950	135	23120	136
		SLB2-215/8xx/F XE G4 ECO (XX)	210	203.29	28350	135	28560	136
	4'	SLB4-225/8xx/F XE G4 (XX)	210	202.86	28350	135	28560	136
		SLB4-275/8xx/F XE G4 ECO (XX)	255	250.47	34425	135	34680	136
		SLB4-320/8xx/F XE G4 ECO (XX)	300	286.96	40500	135	40800	136

NOTES:

- ¹ Quick ship: 5000K and SLB2-090, SLB2-162, SLB2-215 are available in 4000K. Other CCTs may require a lead time or be special order
- 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.

Specifications and Dimensions subject to change without notice.

Product Dimensions



Model No.	L	W	H
SLB2-090/8xx/F XE G4 ECO (XX)	23.8" (605mm)	13.0" (330mm)	3.6" (92.5mm)
SLB2-135/8xx/F XE G4 ECO (XX)	23.8" (605mm)	13.0" (330mm)	3.6" (92.5mm)
SLB2-162/8xx/F XE G4 ECO (XX)	23.8" (605mm)	13.0" (330mm)	3.6" (92.5mm)
SLB2-178/8xx/F XE G4 ECO (XX)	23.8" (605mm)	17.3" (440mm)	3.6" (92.5mm)
SLB2-215/8xx/F XE G4 ECO (XX)	23.8" (605mm)	17.3" (440mm)	3.6" (92.5mm)
SLB4-225/8xx/F XE G4 (XX)	45.9" (1166mm)	13.0" (330mm)	3.6" (92.5mm)
SLB4-275/8xx/F XE G4 ECO (XX)	45.9" (1166mm)	13.0" (330mm)	3.6" (92.5mm)
SLB4-320/8xx/F XE G4 ECO (XX)	45.9" (1166mm)	13.0" (330mm)	3.6" (92.5mm)

Accessory Options



Mounting Accessories

PMK	Pendant-mount kit (1/2" NPT hole size)
PMK-3/4NPT	Pendant-mount kit (3/4" NPT hole size)
PMK-BD-1/2NPT	Pendant-mount kit for 6" wide driver gear box (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
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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

Control Pre-Commissioning*

Example: SLB2-165/850/F XE G3 ECO **OSDL/IR L2-10H-3L-10M-30M**

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

DLC QPL Data



QPL Model No.	Product ID	Technical Req.	Classification	Primary Use
SLB2-090/840/F XE G4 ECO (XX)	PL81YQD9X68H	5.1	Premium	High-Bay Luminaires for Commercial and Industrial Buildings
SLB2-090/850/F XE G4 ECO (XX)	PLS20XDVMWNP	5.1	Premium	High-Bay Luminaires for Commercial and Industrial Buildings
SLB2-135/850/F XE G4 ECO	PLPVTJZEEC1A	5.1	Premium	High-Bay Luminaires for Commercial and Industrial Buildings
SLB2-135/840/F XE G4 ECO (XX)	PL9KOEY4EB09	5.1	Premium	High-Bay Luminaires for Commercial and Industrial Buildings
SLB2-135/850/F XE G4 ECO (XX)	PL7DBK5CNZYP	5.1	Premium	High-Bay Luminaires for Commercial and Industrial Buildings
SLB2-162/840/F XE G4 ECO (XX)	PLFIBDJ0NSBV	5.1	Premium	High-Bay Luminaires for Commercial and Industrial Buildings
SLB2-162/850/F XE G4 ECO (XX)	PLCP88SDU70T	5.1	Premium	High-Bay Luminaires for Commercial and Industrial Buildings
SLB2-215/840/F XE G4 ECO	PL5Z4B0GM6F0	5.1	Premium	High-Bay Luminaires for Commercial and Industrial Buildings
SLB2-215/850/F XE G4 ECO	PL64E7P0X93G	5.1	Premium	High-Bay Luminaires for Commercial and Industrial Buildings
SLB2-215/840/F XE G4 ECO (XX)	PLJK4SWWGLRH	5.1	Premium	High-Bay Luminaires for Commercial and Industrial Buildings
SLB2-215/850/F XE G4 ECO (XX)	PLE0PD87V4GM	5.1	Premium	High-Bay Luminaires for Commercial and Industrial Buildings
SLB4-225/850/F XE G4	PLUJ5M8FZYCP	5.1	Premium	High-Bay Luminaires for Commercial and Industrial Buildings
SLB4-225/840/F XE G4 (XX)	PL0UKAU58R1O	5.1	Premium	High-Bay Luminaires for Commercial and Industrial Buildings
SLB4-225/850/F XE G4 (XX)	PLLD1AYSCRHU	5.1	Premium	High-Bay Luminaires for Commercial and Industrial Buildings
SLB4-275/840/F XE G4 ECO (XX)	PLDCWI6I6BLP	5.1	Premium	High-Bay Luminaires for Commercial and Industrial Buildings
SLB4-275/850/F XE G4 ECO (XX)	PL9JKXOU7KBX	5.1	Premium	High-Bay Luminaires for Commercial and Industrial Buildings



AleoBlue Wireless Bluetooth Controls

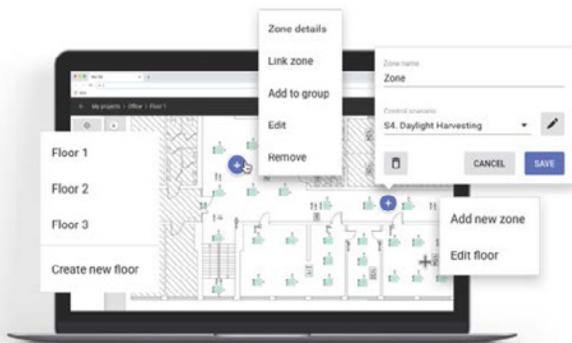


The AleoBlue is a complete solution for managing connected lighting systems using a Bluetooth Mesh lighting network. This enables seamless implementation of simple to complex lighting control scenarios without specialized training or lighting control engineering expertise.

DLC NLC Qualified.

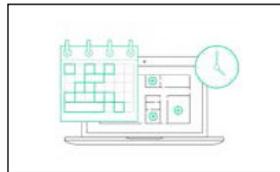
Features and Benefits

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

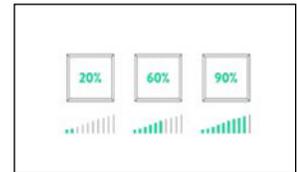


- Optimized Energy Consumption
- Less Hassle with On-Site Adjustments
- More Savings
- Increased Safety
- More Flexibility

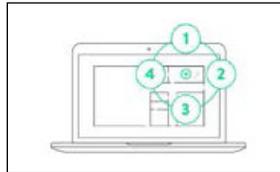
Scheduling



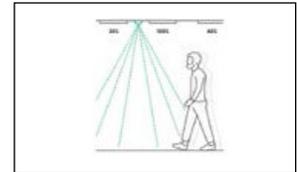
High and Low End Trim



Scenes



Occupancy Sensing



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



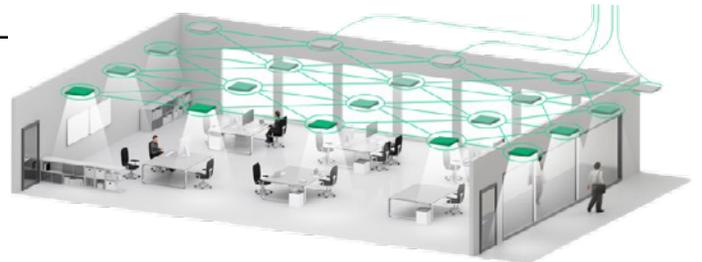
The most advanced encryption standards as well as the cutting-edge device authentication

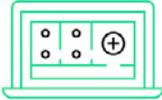


No single point of failure (no central device)



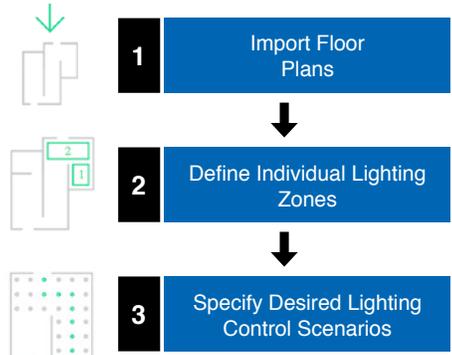
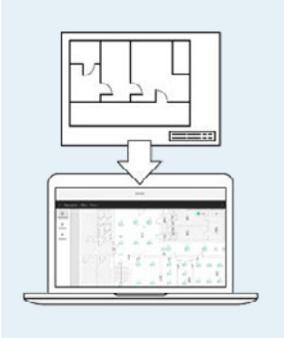
Compatibility with a widely available devices (smart phones & tablets – both with Bluetooth 4.0 and Bluetooth 5)





Planning

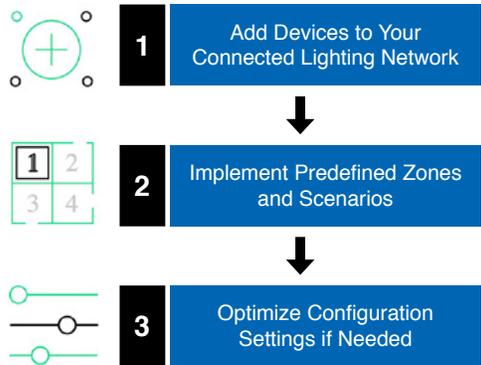
Remote preparation of a retrofit project with the use of our web app. Uploading floor plans, defining individual lighting zones and choosing lighting control scenarios.



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.



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

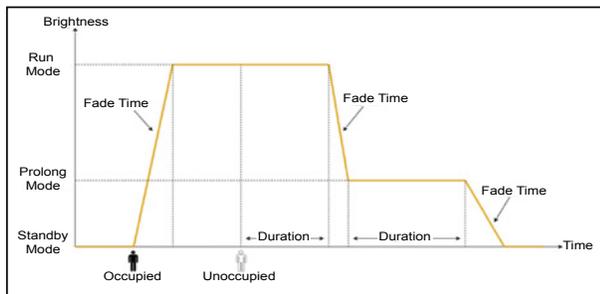
Lighting Control Scenarios

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.

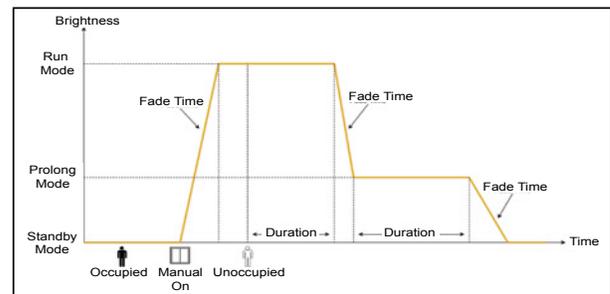


Mode / Scenario	Wireless Switch	Occupancy Sensor	Ambient Light Sensor
Unprovisioned Mode	-	-	-
Switch	On / Off / Scenes	-	-
Occupancy	On / Off / Scenes	Auto On / Off	-
Vacancy	On / Off / Scenes	Auto Off	-
Occupancy with Daylight Harvesting	On / Off / Scenes	Auto On / Off	Enabled
Vacancy with Daylight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

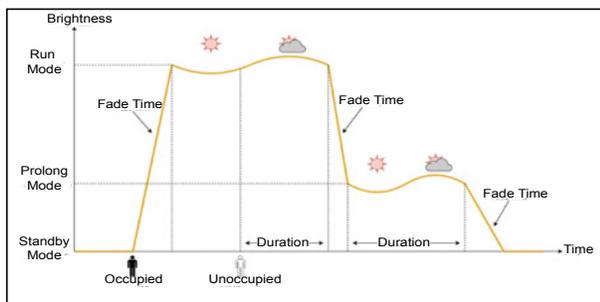
Occupancy Scenario



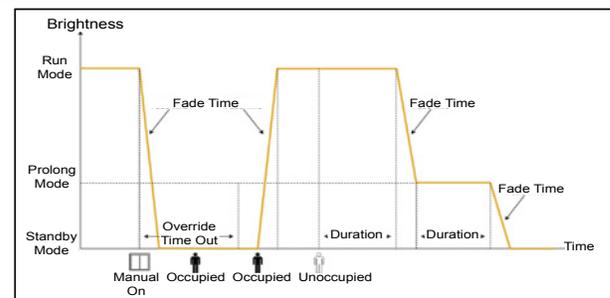
Vacancy Scenario



Occupancy Scenario - with Daylight Harvesting



Occupancy Scenario with Manual Override



Occupancy Detection Pattern

