aleo™
LED LIGHTING

Project	
Notes	
Type	Date
Cat. No.	

SCB G3™ Series — Slim-Profile Circular LED High Bay

DESCRIPTION

The Aleo SCB G3™ Series Slim-Profile Circular High Bay delivers industry-leading performance with a durable, heavy-duty construction. Superior performance, ultra high-efficacy and premium quality provides a robust 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, cold-storage, wash-down areas

DLC LISTED PREMIUM · **7 LIMITED WARRANTY** · **c(UL)us** · **ETL Intertek SANITATION LISTED — CONFORMS TO NSF STD.2** · **aleoblue™**

SCB Series	
13L	100W
19L	150W
25L	200W
30L	240W

Specification Features

Construction
Rugged, die-cast housing with advanced thermal management system ensures reliability and durability. Weather-proof, gasketed driver compartment protects electronics against environmental elements. IP65, wet location.

Optical System
Diffuser lens reduces glare and improves occupant working conditions while maintaining high efficiency emission.

Certification
UL Listed. Wet location rated. ETL Sanitation Listed, conforms to NSF 2 standard

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 standard with 10' white STOW cord.

Installation / Mounting
Single point mount for hook, pendant, or stem mounting

Controls / Dimming
Continuous dimming (1-10V) comes standard. Suitable for use with dimmers, sensors, daylight harvesting and other control strategies to achieve deeper energy-savings and code compliance.

Rated Life 75,000 hours
Limited Warranty 7-years
Efficacy Up to 143 LPW
Continuous Dimming

WET LOCATION RATED

CONTINUOUS DIMMING 0-10V Continuous

Ordering Information

Example: SCB-19L/50K G3 ECO

SCB	19L	50	[Blank]	[Blank]	Options	
Series	**Nominal Lumen Package**	**Color Temp**	**Input Voltage**	**Dimming**	**Controls**	
SCB Slim Circular High Bay	**13L** 13,000 lm (100W)	**50K** 5000K	**Blank** 120V-277V	**Blank** 1-10V Continuous Dimming	**OSDL/IR**	AleoBlue Occ Sensor w/ Daylight
	19L 19,000 lm (150W)				**OSDL/BT**	AleoBlue Wireless Bluetooth Occupancy Sensor
	25L 25,000 lm (200W)				**OSDL/BTEZ-B**	SimplBlue Occupancy Sensor
	30L 30,000 lm (240W)					
					Accessories	
					EM BBU See Page 3 for details	

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	143 LPW (typ.)
CRI	80
Available CCT[1]	5000K
Color Consistency[2]	5-step MacAdam Ellipse
Rated Life	75,000 hours
L70[3]	> 72,000 hours or > 45,000
Power Factor	> 0.9
THD	< 20%
Dimming	1-10V Continuous (10-100%)
Operating Temp.	-40°C to 50°C

Multi-level Occupancy Sensor
PIR Occupancy Sensor with Daylight function
Code-compliance

Performance Data

	5000K		
Catalog No.	**Wattage (W)**	**Delivered Lumens (lm)**	**Efficacy (lm/W)**
SCB-13L/50K G3 ECO	97.48	14,096	144.6
SCB-19L/50K G3 ECO	146.8	20,513	139.73
SCB-25L/50K G3 ECO (150W)	146.8	20,513	139.73
SCB-25L/50K G3 ECO	198.7	28,580	143.8
SCB-30L/50K G3 ECO	234.8	33,684	143.46

DLC QPL Data

| QPL Model No.	Product ID	Technical Req.	Classification	Primary Use
SCB-13L/40K G3 ECO	PLS1EEGTMENG	5	Premium	High-Bay Luminaires for Commercial and Industrial Buildings
SCB-13L/50K G3 ECO	PL0D2RITQPJA	5	Premium	High-Bay Luminaires for Commercial and Industrial Buildings
SCB-13L/57K G3 ECO	PLWPTNUTP8S1	5	Premium	High-Bay Luminaires for Commercial and Industrial Buildings
SCB-19L/40K G3 ECO	PL518CB1SWZ9	5	Premium	High-Bay Luminaires for Commercial and Industrial Buildings
SCB-19L/50K G3 ECO	PLDMWIS8UVT4	5	Premium	High-Bay Luminaires for Commercial and Industrial Buildings
SCB-19L/57K G3 ECO	PLTSHN1GEDHS	5	Premium	High-Bay Luminaires for Commercial and Industrial Buildings
SCB-25L/40K G3 ECO	PLXGA371B4WC	5	Premium	High-Bay Luminaires for Commercial and Industrial Buildings
SCB-25L/50K G3 ECO	PLS2R61BS4BK	5	Premium	High-Bay Luminaires for Commercial and Industrial Buildings
SCB-25L/57K G3 ECO	PLZDHYDSA82L	5	Premium	High-Bay Luminaires for Commercial and Industrial Buildings
SCB-30L/40K G3 ECO	PLQX3W6VL29J	5	Premium	High-Bay Luminaires for Commercial and Industrial Buildings
SCB-30L/50K G3 ECO	PLUKTZOTQ1CH	5	Premium	High-Bay Luminaires for Commercial and Industrial Buildings
SCB-30L/57K G3 ECO	PLI1CJLUBP5E	5	Premium	High-Bay Luminaires for Commercial and Industrial Buildings

NOTES:

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

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

Specifications and Dimensions subject to change without notice.

Product **Dimensions**
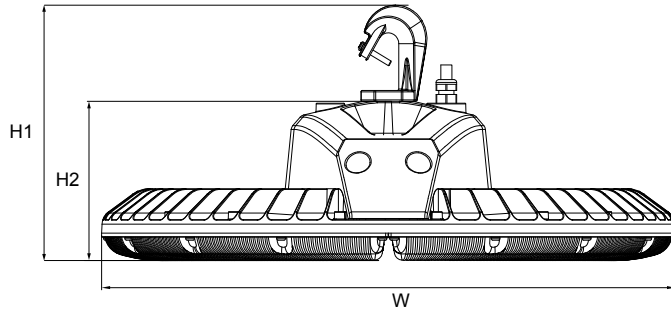
Product	Height (H1)	Height 2 (H2)	Width (W)
SCB-13L G3 ECO	6.97" (177mm)	4.16" (105mm)	12.6" (320mm)
SCB-19L G3 ECO	6.97" (177mm)	4.16" (105mm)	12.6" (320mm)
SCB-25L G3 ECO	7.32" (185mm)	4.52" (114mm)	14.17" (360mm)
SCB-30L G3 ECO	7.47" (189mm)	4.66" (118mm)	17.52" (445mm)

Emergency Battery Backup

Item No.: **EM-UFO-V200-UNV-H-FI-30**

For Field Install UFO EM LED Driver, 30W max., 120V-277V input, min. 90 min, dual J-Box with eyebolts
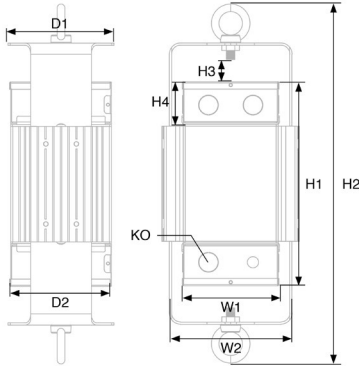
Enclosure (in. ±1)	EM Driver (in.)
Width (W1)	4.21"
Width (W2)	6.10"
Height (H1)	8.54"
Height (H2)	15.94"
Height (H3)	0.98"
Depth (D1)	4.69"
J-Box Size	
Width (W1)	4.21"
Height (H4)	1.55"
Depth (D2)	4.69"
Knock Out (KO)	1/2 Trade Size (0.85")

Control Pre-Commissioning

Example: SCB-19L/50K G3 ECO-**OSDL/IR**

L2	10H	30M	10M	3L
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.
	9H 90%	**2L** 20%	**#M** 1-30 min.	**#H** 1-5 hrs.
L3 20' height (40' dia.)	**8H** 80%	**3L** 30%		**0** Disabled
	7H 70%	**4L** 40%	# = enter no. of minutes from 1 to 30 min.	
L7 40' height (100' dia.)	**6H** 60%	**5L** 50%		# = enter no. of minutes or hours
	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.

Specifications and Dimensions subject to change without notice.

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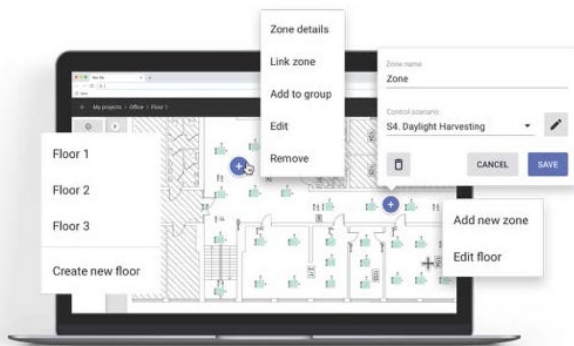## **AleoBlue** Wireless Bluetooth Controls

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.
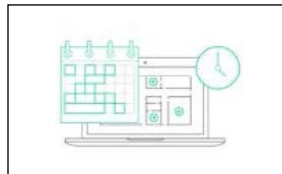
DLC NLC Qualified.

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
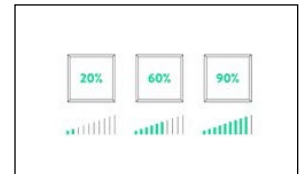
Scenes	Occupancy Sensing

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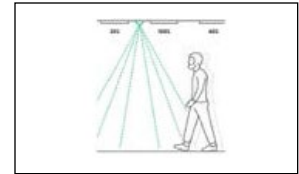
- Intuitive and user-friendly web and iOS apps
- No specialized training or lighting control expertize required
- Optimized for commercial spaces of any size
- No additional wiring or central control box
- Customizable lighting control parameters
- Future proof with Software Updates
- Multiple Zone Configurable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

Bluetooth Mesh Technology Advantages

The fastest low-power communication
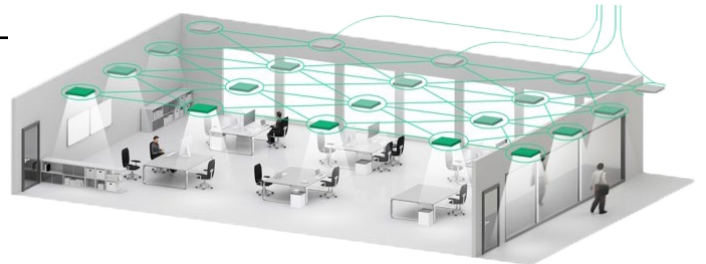
Scalability to thousands of devices

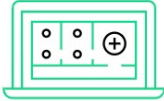The most advanced encryption standards as well as the cutting-edge device authentication

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)

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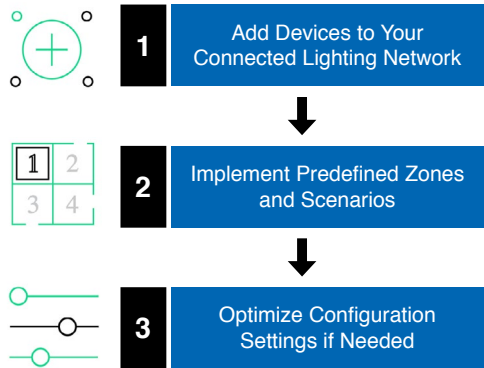
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Planning

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
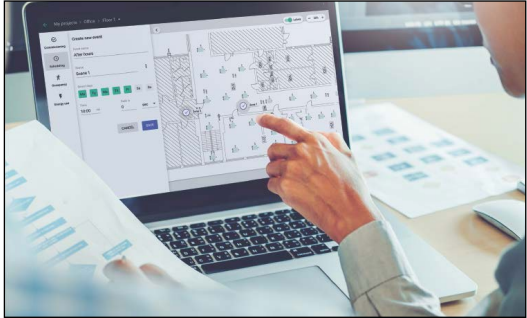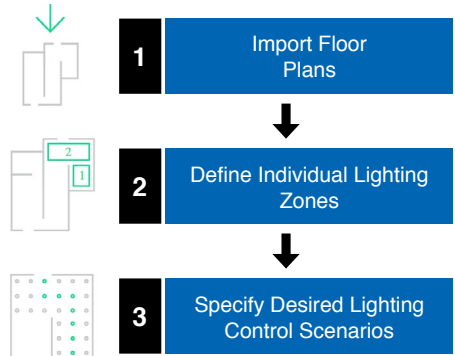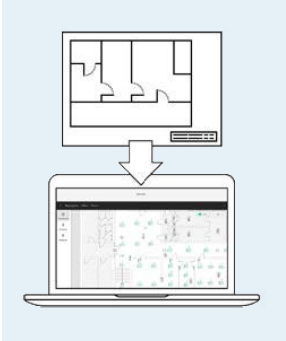
Implementation

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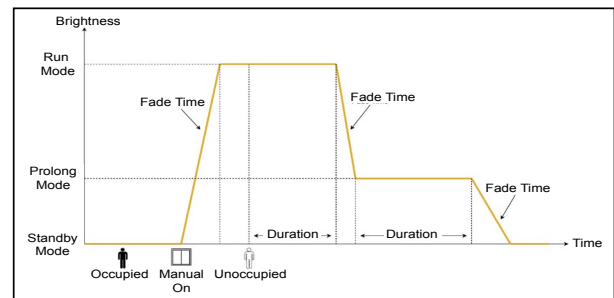
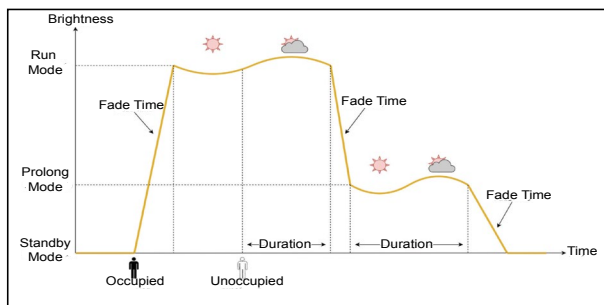| Mode / Scenario	Wireless Switch	Occupancy Sensor	Ambient Light Sensor
Unprovisioned Mode	-	-	-
Switch	On / Off / Scenes	-	-
Occupancy	On / Off / Scenes	Auto On / Off	-
Vacancy	On / Off / Scenes	Auto Off	-
Occupancy with Daylight Harvesting	On / Off / Scenes	Auto On / Off	Enabled
Vacancy with Daylight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

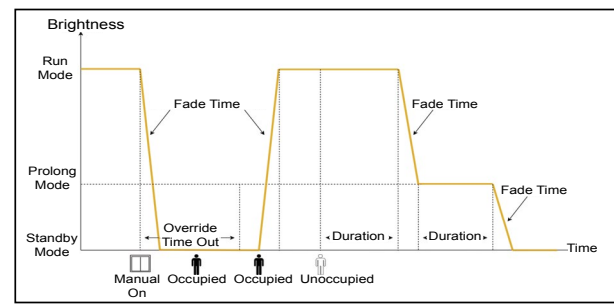### Occupancy Scenario
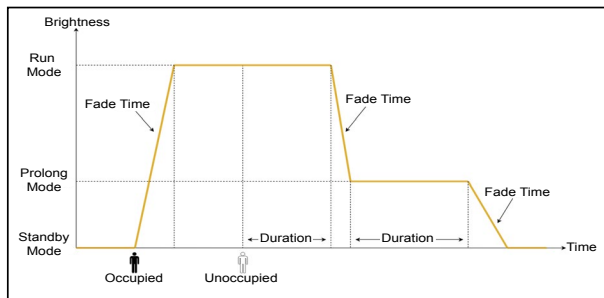
Vacancy Scenario

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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