aleo™
LED LIGHTING

Project	
Notes	
Type	Date
Cat. No.	

AL™ XE G3 Series
LED Area Luminaire

DESCRIPTION

The Aleo AL™ Series combines energy-efficiency, advanced optical control, and modern slim profile aesthetics to deliver enhanced performance to area lighting applications. Rugged die-cast housing provides advanced thermal management for long life and weather-proof compartment to withstand challenging, outdoor environments.

APPLICATIONS

Parking lots, walkways, auto dealerships, outdoor retail shopping centers, recreational spaces, campuses.

AL XE G3 Series

200W, 300W

WET LOCATION RATED · **DLC LISTED PREMIUM** · **ETL Listed c us Intertek** · **7 WARRANTY LIMITED** · **aleoblue™**

CONTINUOUS DIMMING
0-10V Continuous

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.

Optical System

Precision-formed optical lens system reduces glare and improves safety and security by delivering high-efficiency illumination with precise optical distribution. Type III distribution comes standard. Type V available.

Certification

ETL Listed. All components have UL certification. DLC QPL 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 universal voltage (120-277V) for convenient installation.

Installation / Mounting

Luminaire comes standard with universal mounting adapter. Versatile platform includes different mounting options, including: u-bracket trunion, slip-fitter, wall-mount.

Controls / Dimming

Suitable for use with sensors and daylight harvesting to achieve deeper energy-savings and code compliance. Sensor accessory available: occupancy sensing with daylight cut-off and photocell.

Quick Ship

AL-200/50K-D XE G3
AL-300/50K-D XE G3

Ordering Information

Example: AL-300/50K-D XE G3-ASA

AL	300	50K	[Blank]	D	[Blank]

Series	Nominal Wattage		Color Temp		Input Voltage	Dimming	Controls		aleoBlue Controls**	
AL LED Area Luminaire	**200** **300**	200W 300W	**40K** **50K**	4000K 5000K	**Blank** 120V-277V **480** 480V	**D** 0-10V Dimming Driver	**OSDL/IR**	Multi-Level Occ. Sensor w/ wireless config.	**OSDL/BT**	Wireless Bluetooth Occupancy Sensor
							OSDL/BTEZ-B	SimplBlue Occupancy Sensor	**WLC/BT**	Wireless Bluetooth Lighting Control Node
							PC	Photocell	**SXT**	Signal Booster Kit

[Blank]	[Blank]	[Blank]

Distribution Type		Mounting (Sold Separately)		Finish Color					
Blank	Type III	**AL-ASA G3**	Straight Arm (6")	**Blank**	Dark Bronze	RAL#8019	**-BLK**	Black	RAL#9011
T5	Type V	**AL-ASF G3**	Adjustable Slip-fitter	**-WH**	White	RAL#9003	**-SLV**	Silver	RAL#9006
		AL-AUB G3	Adjustable Trunion U-bracket						
		**See page 3 for Mounting Info		* Contact Factory for additional finish colors					

**Any exterior lighting design with aleoBlue controls should be reviewed by Aleo's technical team to ensure proper mesh network quality, unless previously trained by Aleo. Please send designs to tech.support@aleolighting.com

NOTES:
1. Quick ship: 5000K. Other CCTs may require a lead time or be special order
2. Mounting is not installed. Shipped separately from fixture.
3. Contact Factory for additional finish colors

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	> 141 LPW (typ.)
CRI	70+, R9 > 0
Available CCT[1]	4000K, 5000K
Rated Life	75,000 hours
Power Factor	> 0.9
THD	< 20%
Controls	Multi-level controls available
IP Rating	IP66
Operating Temp.	-20ºC to 40ºC
Surge Protection	10kA

Product Dimensions

3.5"
(88.5mm)

17" (430mm)

19" (480mm)

21.7" (550mm)
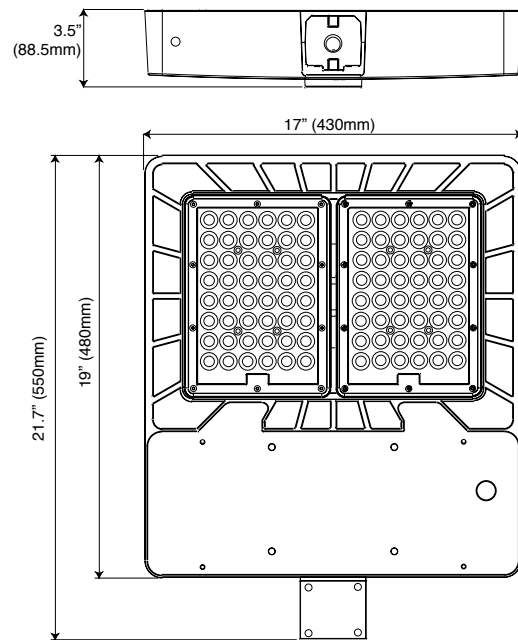
Performance Data

Catalog No.	Rated Wattage (W)	4000K		5000K	
		Delivered Lumens (lm)	Efficacy (lm/W)	Delivered Lumens (lm)	Efficacy (lm/W)
AL-200/xxK-D XE G3	197	28,596	145.5	29,282	148.2
AL-300/xxK-D XE G3	308	43,767	141.5	44,807	145.3

Multi-level **Occupancy Sensor**

PIR Occupancy Sensor with Daylight function Code-compliance

*Sensor placement may vary
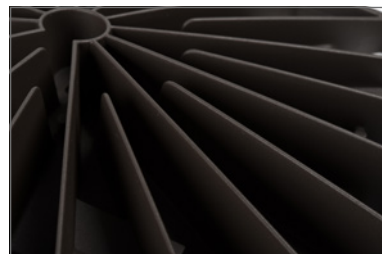
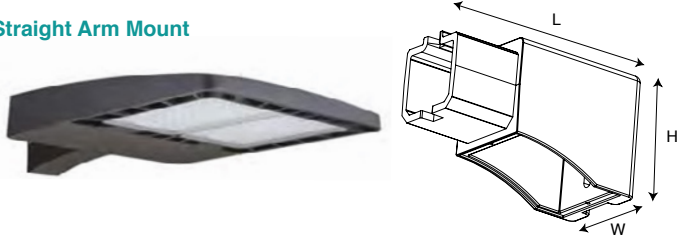NOTES:

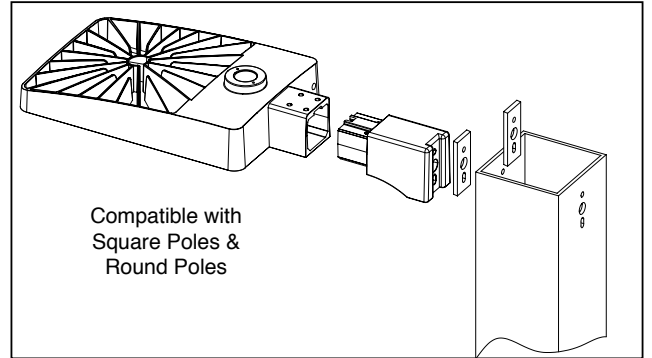1   Quick ship: 5000K. Other CCTs may require a lead time or be special order

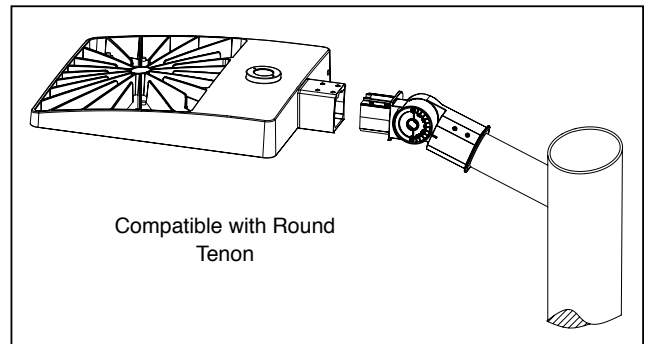**Specifications and Dimensions subject to change without notice.**

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Mounting Information

Straight Arm Mount

Catalog No.	L	W	H
AL-ASA G3	6.5" (165mm)	3" (77.3mm)	3.7" (94mm)

Compatible with
Square Poles &
Round Poles

Slip Fitter

Catalog No.	L	W	H
AL-ASF G3	3.11" (79mm)	3.1" (78mm)	9.1" (231mm)

Compatible with Round
Tenon

U-Bracket Trunion
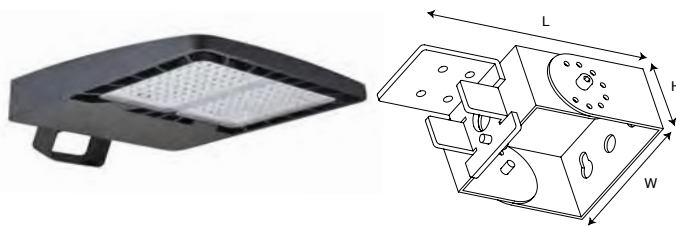
Catalog No.	L	W	H
AL-AUB G3	8.9" (226 mm)	5.3" (135mm)	2.8" (70.6mm)

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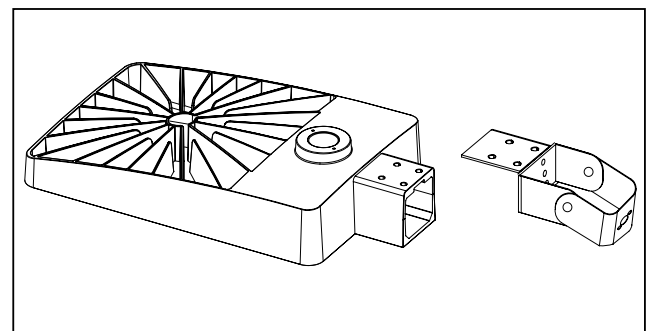
Control Pre-Commissioning*

Example: AL-200/50K-D XE G3-OSDL/IR-AL-ASA- **L2-10H-3L-10M-30M-5S-30S**

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

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
AL-200/40K-D XE G3	S-BDOQF6	5.1	Premium	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires
AL-200/50K-D XE G3	S-CHP2DK	5.1	Premium	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires
AL-300/40K-D XE G3	S-X83GVE	5.1	Premium	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires
AL-300/50K-D XE G3	S-50JTAO	5.1	Premium	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires

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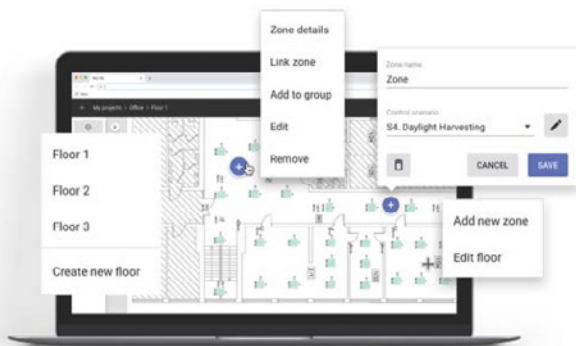## AleoBlue Wireless Bluetooth Controls

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.
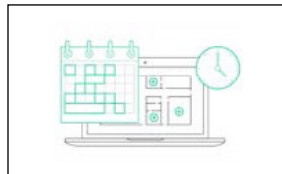
DLC NLC Qualified.

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
	20% 60% 90%

Scenes	Occupancy Sensing

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

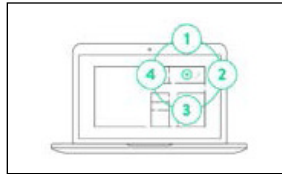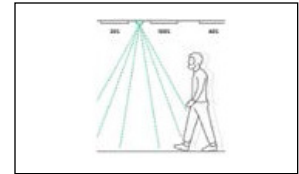- Intuitive and user-friendly web and iOS apps
- No specialized training or lighting control expertize required
- Optimized for commercial spaces of any size
- No additional wiring or central control box
- Customizable lighting control parameters
- Future proof with Software Updates
- Multiple Zone Configurable
- Built-In Scenarios + Customization

Bluetooth Mesh Technology Advantages

The fastest low-power communication

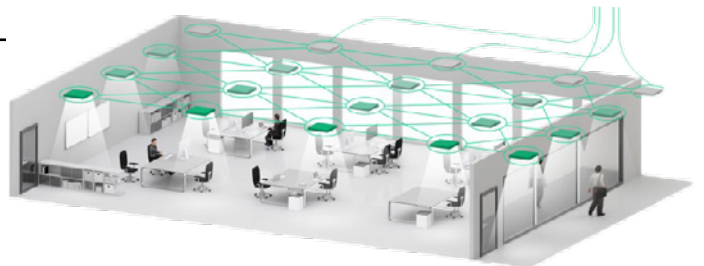Scalability to thousands of devices

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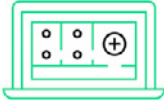
No single point of failure (no central device)

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

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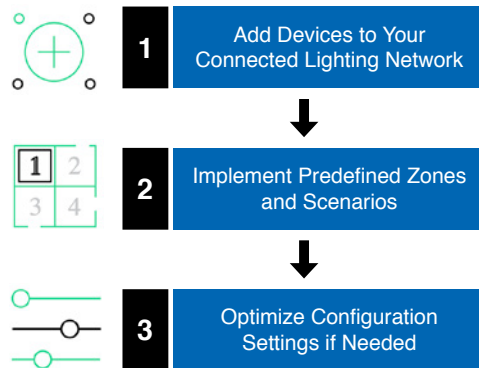
Planning

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
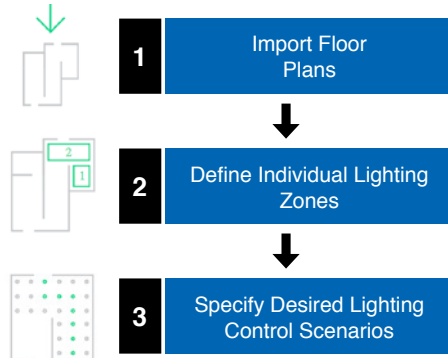
Implementation

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	Wireless Bluetooth Lighting Control Node	Wireless Bluetooth, Fixture-Mount Signal Booster Kit	aleoBlue Gateway
Model: -OSDL/BT	Model: -WLC/BT	Model: -WLC/BT-SXT	Model: SGW-101

**Specifications and Dimensions subject to change without notice.**

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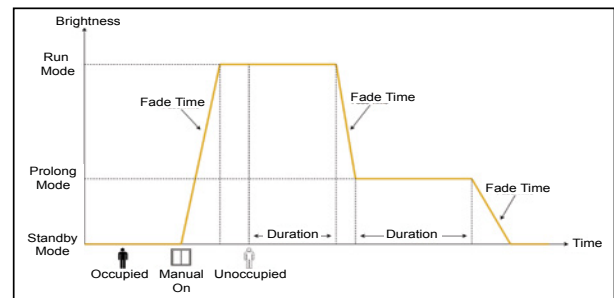
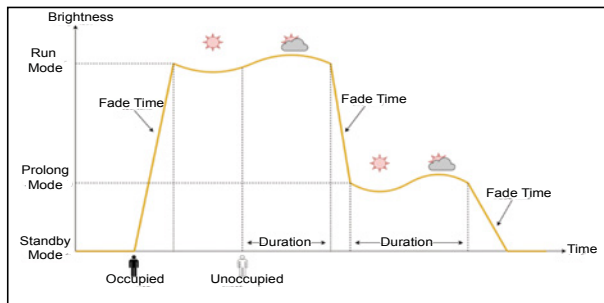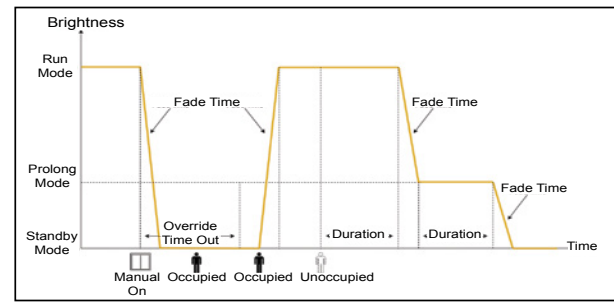| Mode / Scenario	Wireless Switch	Occupancy Sensor	Ambient Light Sensor
Unprovisioned Mode	-	-	-
Switch	On / Off / Scenes	-	-
Occupancy	On / Off / Scenes	Auto On / Off	-
Vacancy	On / Off / Scenes	Auto Off	-
Occupancy with Daylight Harvesting	On / Off / Scenes	Auto On / Off	Enabled
Vacancy with Daylight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

Occupancy Scenario
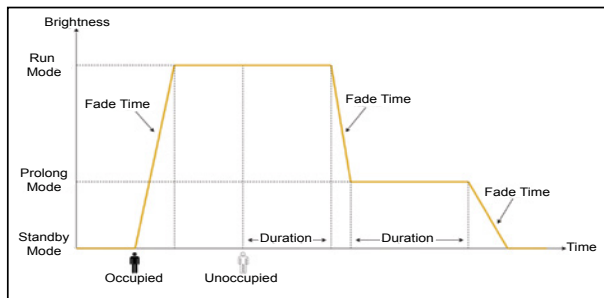
Vacancy Scenario

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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