

Project	
Notes	
Type	Date
Cat. No.	

ALS™ XE G3 Series

LED Area Luminaire

DESCRIPTION

The Aleo ALS™ 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.

Specification Features



ALS XE G3 Series

70W, 100W, 150W

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.

Rated Life 75,000 hours
Limited Warranty 7-years
Efficacy Up to 150 LPW
Continuous Dimming



Quick Ship

ALS-70/50K-D XE G3
ALS-100/50K-D XE G3
ALS-150/50K-D XE G3

Ordering Information

Example: ALS-150/50K-D XE G3-ASA

ALS		150		50K		[Blank]		D		[Blank]					
Series		Nominal Wattage		Color Temp		Input Voltage		Diming		Controls			AleoBlue Controls**		
ALS				40K 4000K		Blank		D		OSDL/IR			OSDL/BT		
Slim LED		70 70W				120V-277V		0-10V		Multi-Level Occ. Sensor w/ wireless config.			Wireless Bluetooth		
Area		100 100W		50K 5000K				Dimming		OSDL/BTEZ-B			Occupancy Sensor		
Luminaire		150 150W				480 480V		Driver		SimplBlue Occupancy Sensor			WLC/BT		
										PC			Wireless Bluetooth		
										Photocell			Lighting Control Node		
													SXT		
													Signal Booster Kit		
[Blank]		[Blank]				[Blank]				Options					
Distribution Type		Mounting (Sold Separately)						Finish Color				Designation			
Blank Type III		AL-ASA G3		Straight Arm (6")				Blank		Dark Bronze		RAL#8019		BAA	
T5 Type V		AL-ASF G3		Adjustable Slip-fitter				-WH		White		RAL#9003		Buy American Act Compliant	
		AL-AUB G3		Adjustable Trunion U-bracket				-BLK		Black		RAL#9011		BABAA	
								-SLV		Silver		RAL#9006		Build America, Buy America Act Compliant	
		**See page 3 for Mounting Info						* Contact Factory for additional finish colors							

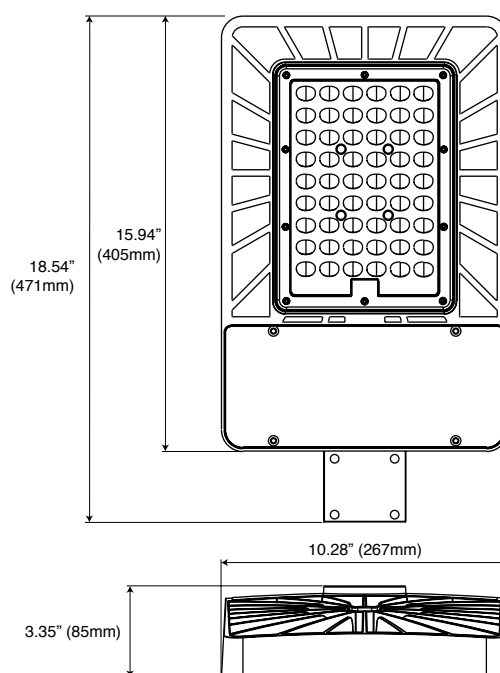
**Any exterior lighting design with aleoBlue controls should be reviewed by Aleo's technical team to ensure proper mesh network quality, unless previously trained by Aleo. Please send designs to tech.support@aleoighting.com

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

Product Dimensions

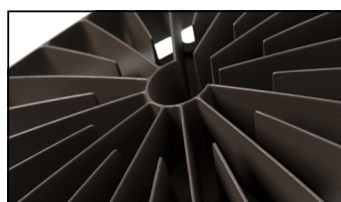


Performance Data

Catalog No.	Rated Wattage (W)	4000K		5000K	
		Delivered Lumens (lm)	Efficacy (lm/W)	Delivered Lumens (lm)	Efficacy (lm/W)
ALS-70/xxK-D XE G3	69	10,203	147.06	10,486	150.12
ALS-100/xxK-D XE G3	99	14,092	141.16	14,324	144.18
ALS-150/xxK-D XE G3	145	20,618	141.41	21,045	145.54

DLC QPL Data

QPL Model No.	Product ID	Technical Req.	Classification	Primary Use
ALS-70/40K-D XE G3	S-162KPO	5.1	Premium	Outdoor Pole/Arm-Mounted Area and Roadway
ALS-70/50K-D XE G3	S-J059SK	5.1	Premium	Outdoor Pole/Arm-Mounted Area and Roadway
ALS-100/40K-D XE G3	S-NL173O	5.1	Premium	Outdoor Pole/Arm-Mounted Area and Roadway
ALS-100/50K-D XE G3	S-CDM37E	5.1	Premium	Outdoor Pole/Arm-Mounted Area and Roadway
ALS-150/40K-D XE G3	S-C6KGPH	5.1	Premium	Outdoor Pole/Arm-Mounted Area and Roadway
ALS-150/50K-D XE G3	S-U5ECIN	5.1	Premium	Outdoor Pole/Arm-Mounted Area and Roadway

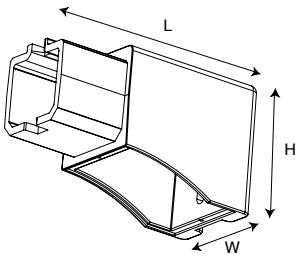


*Sensor placement may vary

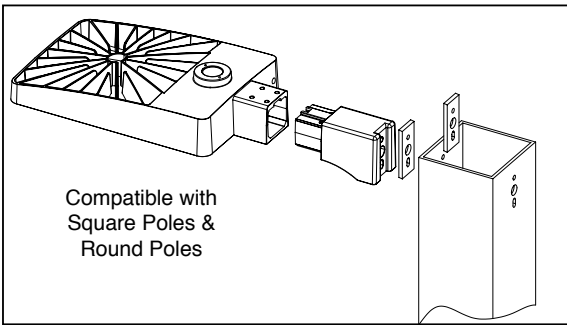
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Mounting Information

Straight Arm Mount

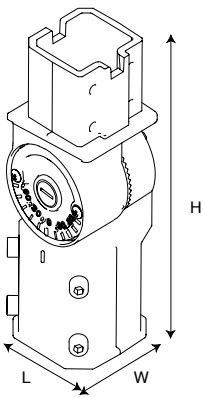


Catalog No.	L	W	H
AL-ASA G3	6.5" (165mm)	3" (77.3mm)	3.7" (94mm)

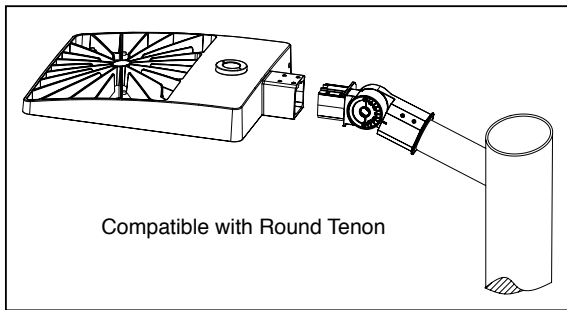


Compatible with
Square Poles &
Round Poles

Slip Fitter

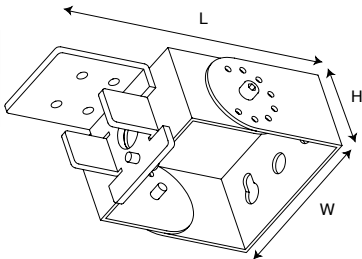


Catalog No.	L	W	H
AL-ASF G3	3.11" (79mm)	3.1" (78mm)	9.1" (231mm)

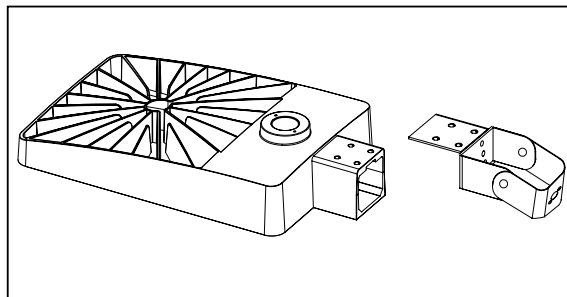


Compatible with Round Tenon

U-Bracket Trunion



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



BAA and BABAA Compliant



BAA - Buy America Act Compliant

Complies and Qualifies for projects requiring Buy America Act (BAA) compliant product

BABA - Build America, Buy America Compliant

Complies and Qualifies for projects requiring Build America, Buy America Act (BABAA) compliant product

*Note: BAA and BABA product will require lead times approximately ranging from 12-18 weeks. Contact your Aleo representative for more information



AleoBlue Wireless Bluetooth Controls



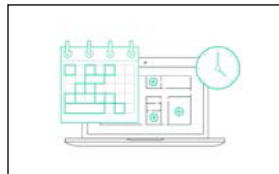
The AleoBlue is a complete solution for managing connected lighting systems using a Bluetooth Mesh lighting network. This enables seamless implementation of simple to complex lighting control scenarios without specialized training or lighting control engineering expertise.

DLC NLC Qualified.

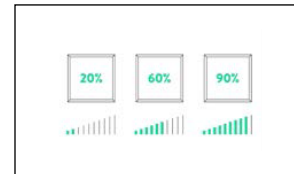
Features and Benefits

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

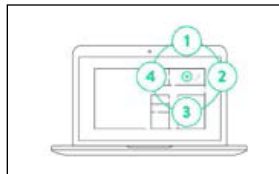
Scheduling



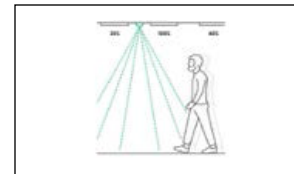
High and Low End Trim



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 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



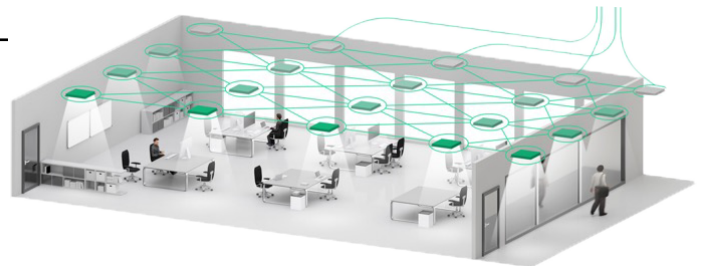
The most advanced encryption standards as well as the cutting-edge device authentication

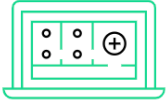


No single point of failure (no central device)



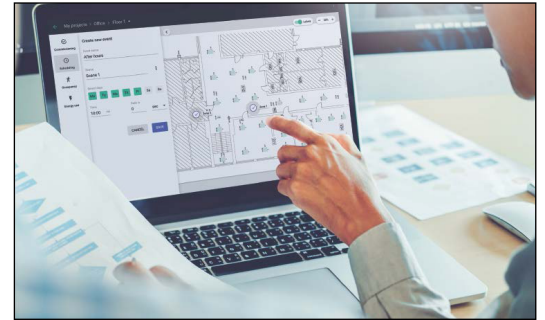
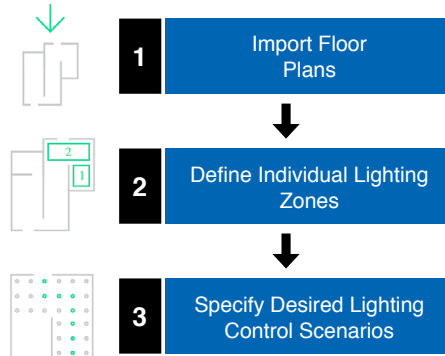
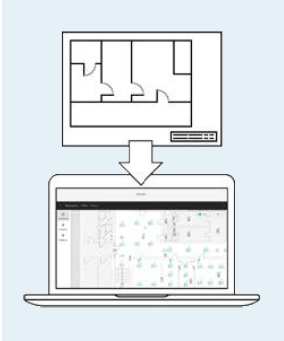
Compatibility with a widely available devices (smart phones & tablets – both with Bluetooth 4.0 and Bluetooth 5)





Planning

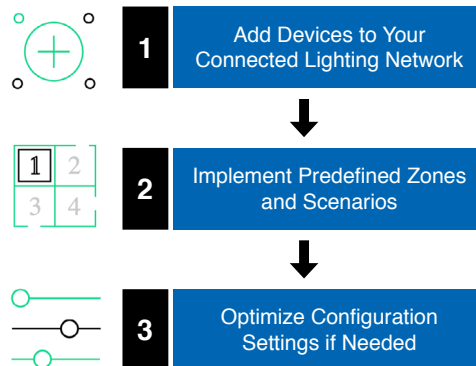
Remote preparation of a retrofit project with the use of our web app. Uploading floor plans, defining individual lighting zones and choosing lighting control scenarios.



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



Wireless Bluetooth Lighting Control Node
Model: -WLC/BT



Wireless Bluetooth, Fixture-Mount Signal Booster Kit
Model: -WLC/BT-SXT



aleoBlue Gateway
Model: SGW-101

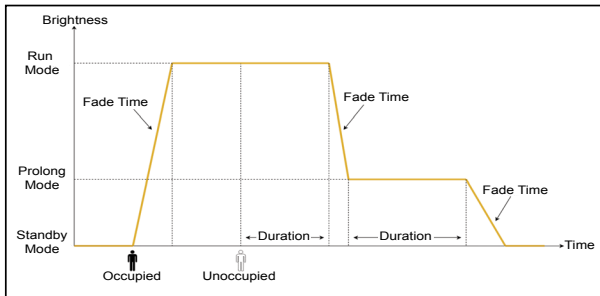
Lighting Control Scenarios

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.

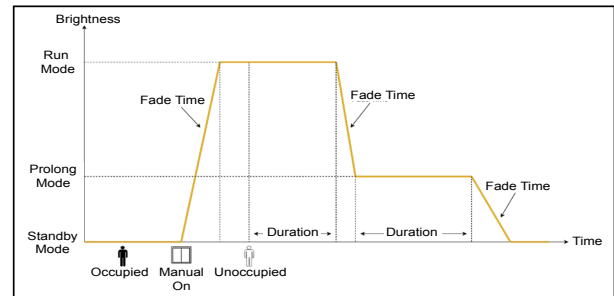


Mode / Scenario	Wireless Switch	Occupancy Sensor	Ambient Light Sensor
Unprovisioned Mode	-	-	-
Switch	On / Off / Scenes	-	-
Occupancy	On / Off / Scenes	Auto On / Off	-
Vacancy	On / Off / Scenes	Auto Off	-
Occupancy with Daylight Harvesting	On / Off / Scenes	Auto On / Off	Enabled
Vacancy with Daylight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

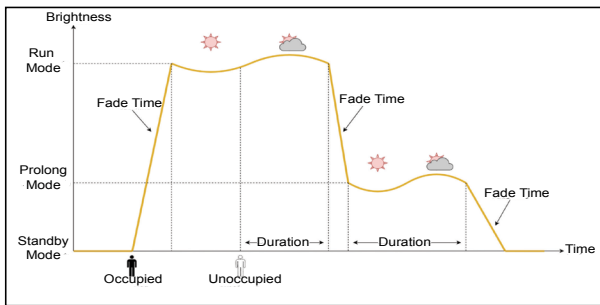
Occupancy Scenario



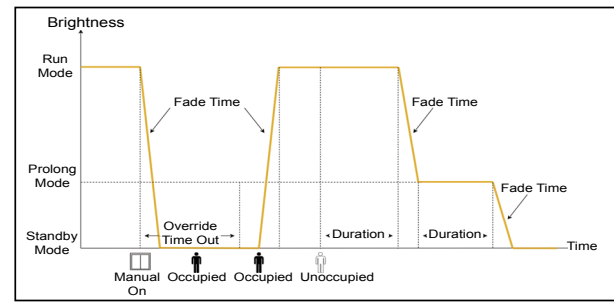
Vacancy Scenario



Occupancy Scenario - with Daylight Harvesting



Occupancy Scenario with Manual Override



Occupancy Detection Pattern

