aleo™
LED LIGHTING

Project	
Notes	
Type	Date
Cat. No.	

DESCRIPTION

The Aleo ALX™ 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.

ALX™ Series

150W, 300W

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 II, III, IV and V available.

Certification
UL 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) and high voltage (227-480V) for convenient installation.

Installation / Mounting
Luminaire comes standard with universal mounting adapter. Versatile platform includes different mounting options, including: straight arm, trunion, slip-fitter, yoke mount and rotatable pole-mount.

Controls / Dimming
Suitable for use with sensors and photocells to achieve deeper energy-savings and code compliance. Comes standard with receptacle for plug and play occupancy sensor or photocell.

Field Adjustable CCT / Wattage
Increased versatility and reduced inventory burden. Wattage and Color Temp. can be adjusted in the field by selecting (3) different wattages and (3) different CCTs via switch outside the housing.

Rated Life 75,000 hours
Limited Warranty 7-years
Efficacy Up to 160 LPW
Continuous Dimming

CONTINUOUS DIMMING
0-10V Continuous

Quick Ship

ALX-150UX/CT (SR/RC)
ALX-300UX/CT (SR/RC)
ALX-150UX/CT HV (SR/RC)
ALX-300UX/CT HV (SR/RC)
ALX-150UX/CT (SR/RC) WH
ALX-300UX/CT (SR/RC) WH

Ordering Information

Example: ALX-150UX/CT HV (SR/RC)

ALX	150	UX	CT	HV	Options	
Series	**Nominal Wattage**	**Lumen Package**	**Color Temp**	**Input Voltage**	**(SR/RC)**	**Controls**
ALX Slim LED Area Luminaire	**150** 70W/100W/150W	UX Field Adjustable Wattage	**CT** Adjustable CCT 3000K/ 4000K/ 5000K	**Blank** 120V-277V	Sensor Ready w/ Sensor Receptacle	See pg. 6 for details
	300 200W/250W/300W		**AMBR**[1] Amber Spectrum	**HV** 277V-480V	**Designation**	
					BAA Buy American Act Compliant	**BABAA** Build America, Buy America Act Compliant

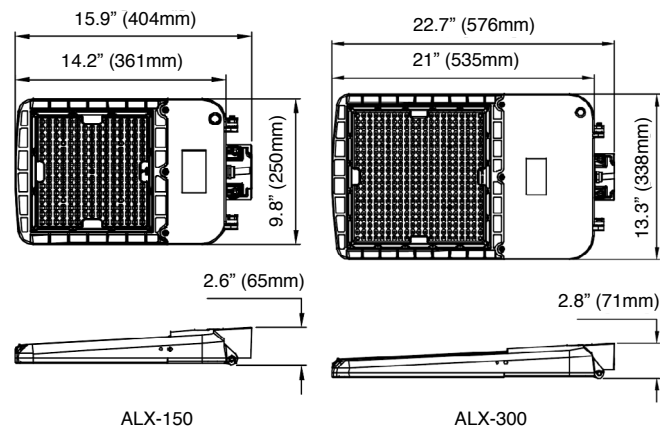| [Blank]		[Blank]		[Blank]	
Distribution Type		**Mounting** (Sold Separately)		**Finish Color***	
Blank Type III **T4** Type IV		**ALX-ASA** Straight Arm	**ALX-AUB** Adjustable Trunnion	**Blank** Dark Bronze RAL#8019	
T2 Type II **T5** Type V		**ALX-ASA ECO** Straight Arm	**ALX-YOK-S** Yoke Mount (Small)	**WH** White RAL#9016	
Any distribution type other than Type III is a custom optic with associated adder cost and lead time		**ALX-ASF** Slip Fitter	**ALX-YOK-L** Yoke Mount (Large)	* Contact Factory for additional finish colors. Any finish color other than Dark Bronze and White is a custom color with associated adder cost and lead time	
		ALX-ASR Rotatable Straight Arm			

[1] Made to order option with associated lead time. Not stocked as Quick Ship.
Specifications and Dimensions subject to change without notice.

Performance Summary

Input Voltage	120V-277V, 277V-480V
Input Frequency	50/60 Hz
Rated Wattage	See Performance Table
Delivered Lumens	See Performance Table
Efficacy	> 130 LPW (typ.)
CRI	70+
Available CCT	3000K/4000K/5000K
Rated Life	75,000 hours
Power Factor	> 0.9
THD	< 20%
Controls	Plug N Play Sensors
IP Rating	IP65
Operating Temp.	-40ºC to 45ºC
Surge Protection	6KV

Product Dimensions

15.9" (404mm)
14.2" (361mm)
9.8" (250mm)
2.6" (65mm)
ALX-150

22.7" (576mm)
21" (535mm)
13.3" (338mm)
2.8" (71mm)
ALX-300

Performance Data

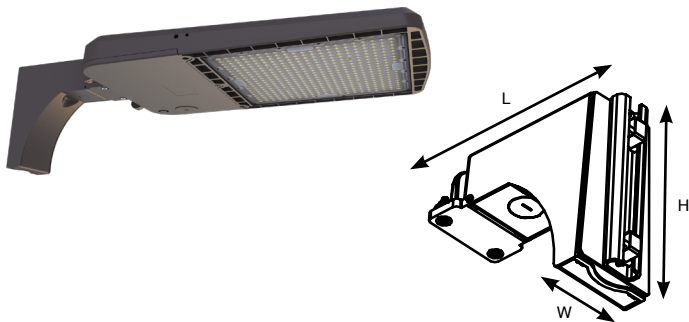| Catalog No.	Nominal Wattage (W)	Tested Wattage (W)	3000K		4000K		5000K	
			Delivered Lumens (lm)	Scaled Efficacy (lm/W)	Delivered Lumens (lm)	Scaled Efficacy (lm/W)	Delivered Lumens (lm)	Scaled Efficacy (lm/W)
ALX-150UX/CT (SR/RC)	70	67.4	9,436	140	10,608	157.4	9,887	146.7
	100	96.3	13,347	138.6	15,003	155.8	13,982	145.2
	150	144.5	19,825	137.2	22,296	154.3	20,779	143.8
ALX-150UX/CT HV (SR/RC)	70	66.6	9,410	141.3	10,622	159.5	10,316	154.9
	100	95.2	13,318	139.9	15,032	157.9	14,603	153.4
	150	142.8	19,777	138.5	22,319	156.3	21,691	151.9
ALX-300UX/CT (SR/RC)	200	201.1	27,570	137.1	30,506	151.7	28,355	141
	240	241.3	32,744	135.7	36,243	150.2	33,685	139.6
	300	301.6	40,535	134.4	44,847	148.7	41,681	138.2
ALX-300UX/CT HV (SR/RC)	200	197.1	26,805	136	30,176	153.1	29,742	150.9
	240	236.5	31,856	134.7	35,853	151.6	35,333	149.4
	300	295.6	39,433	133.4	44,369	150.1	43,719	147.9
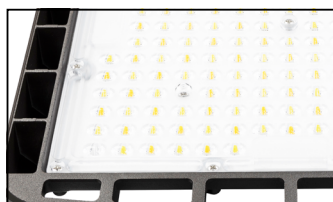
*Sensor placement may vary

Specifications and Dimensions subject to change without notice.

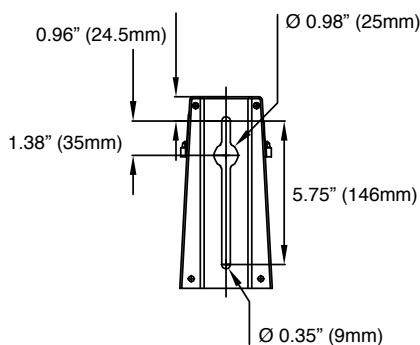## **Mounting** Information

Straight Arm Mount

Catalog No.	L	W	H
ALX-ASA	9.14" (232.1mm)	3.7" (94mm)	7.68" (195mm)

Compatible with Square Poles & Round Poles

Drill Pattern **ALX-ASA**

0.96" (24.5mm)
Ø 0.98" (25mm)
1.38" (35mm)
5.75" (146mm)
Ø 0.35" (9mm)
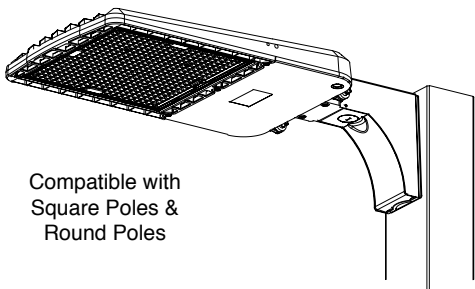
Straight Arm Mount ECO

Catalog No.	L	W	H
ALX-ASA ECO	6.59" (167.3mm)	3.62" (92.1mm)	6.38" (162mm)

Compatible with Square Poles & Round Poles

Drill Pattern **ALX-ASA ECO**

1.42" (36mm)
0.43" (11mm)
Ø 0.71" (18mm)
5.51" (140mm)
Ø 0.35" (9mm)

Specifications and Dimensions subject to change without notice.
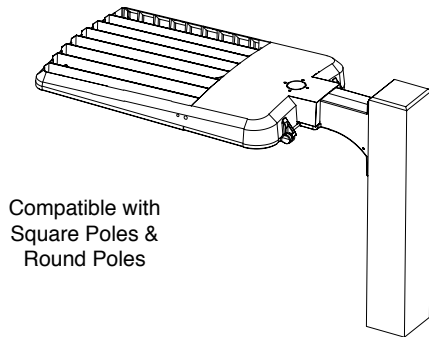
Mounting Information

Slip Fitter

Compatible with Round Tenon
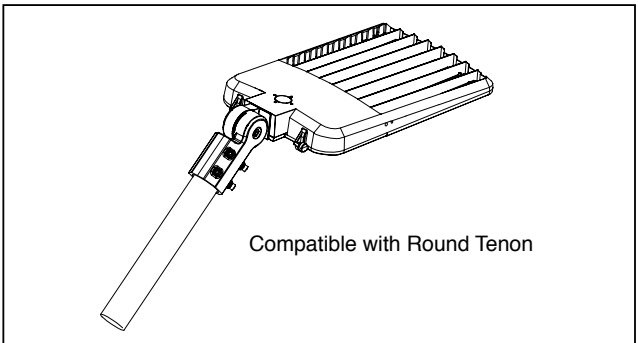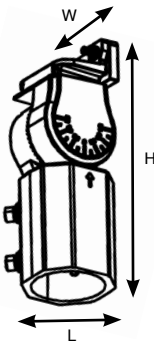
Catalog No.	L	W	H
ALX-ASF	3.07" (78mm)	3.59" (91.2mm)	9.1" (231mm)

U-Bracket Trunion
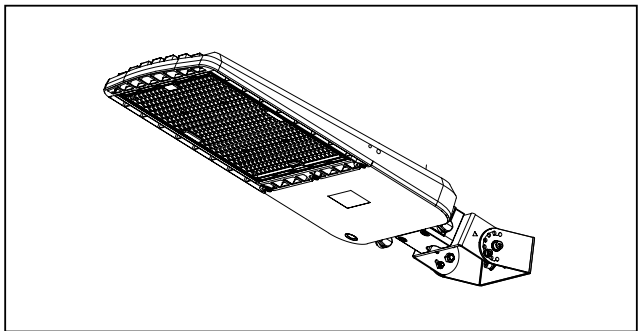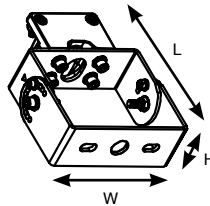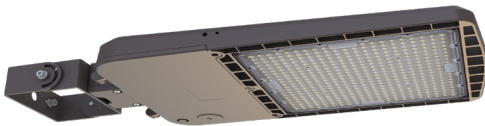
Catalog No.	L	W	H
ALX-AUB	7.36" (186.9mm)	6.3" (160mm)	2.55 (62mm)

Drill Pattern **ALX-AUB**

3.78" (96mm)

2.99" (76mm)

Ø 0.43" (11mm)

Ø 0.83" (21mm)

Specifications and Dimensions subject to change without notice.

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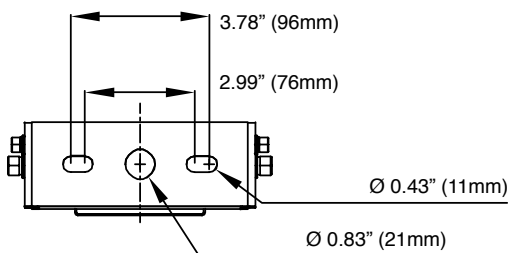
Mounting Information

Rotatable Pole-Mount

Compatible with
Square Poles &
Round Poles
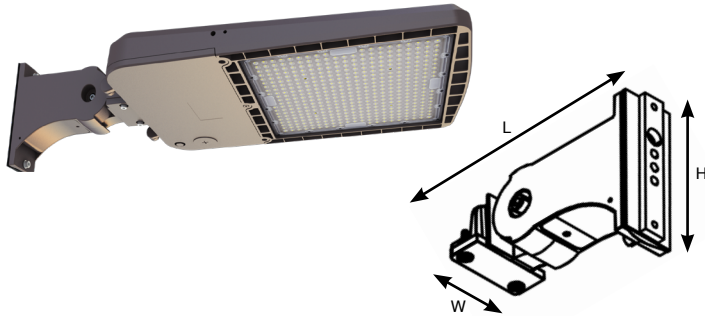
Catalog No.	L	W	H
ALX-ASR	9.34" (237.2mm)	3.62" (92.2mm)	6.38" (162mm)

Drill Pattern **ALX-ASR**

1.42" (36mm)
0.43" (11mm)
5.51" (140mm)
Ø 0.7" (18mm)
Ø 0.35" (9mm)
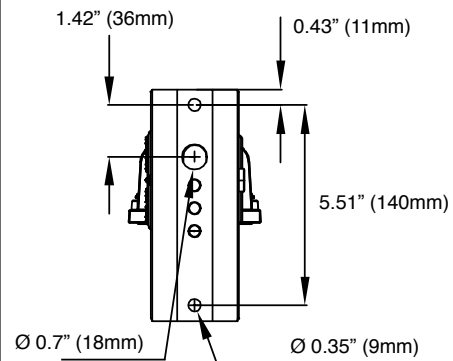
Yoke Mount
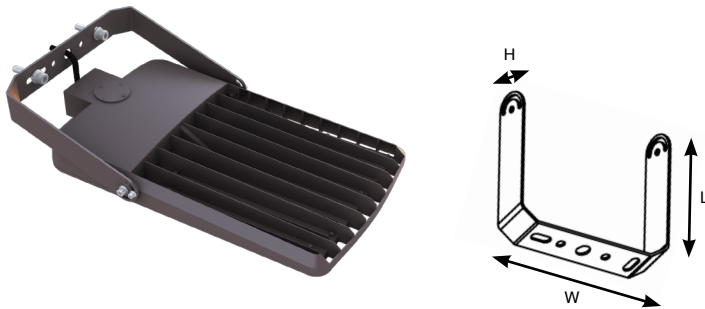
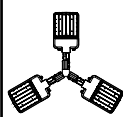| Catalog No.	L	W	H
ALX-YOK-S	8.19" (208mm)	10.12" (257mm)	1.97" (50mm)
ALX-YOK-L	11.54" (293mm)	13.58" (345mm)	1.97" (50mm)
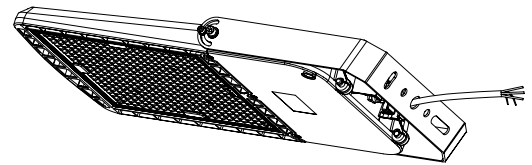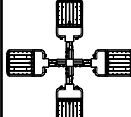
Drill Pattern **ALX-YOK-S, ALX-YOK-L**

Ø 0.79" (20mm)
Ø 0.47" (12mm)
1.26" (32mm)
1.14" (29mm)
Ø 0.51" (13mm)
3.07" (78mm)
Ø 0.51" (13mm)
6.2" (157.5mm)

Specifications and Dimensions subject to change without notice.

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EPA Rating

Mounting	Product	1	2 @ 90°	2 @ 180°	3 @ 120°	3 @ 90°	4 @ 90°
ALX-ASF	ALX-150	0.47	0.68	0.95	1.26	1.15	1.15
	ALX-300	0.68	1.18	1.37	1.98	1.86	1.86
ALX-ASR	ALX-150	0.58	0.79	1.18	1.58	1.39	1.39
	ALX-300	0.81	1.11	1.65	2.16	1.95	1.95
ALX-ASA	ALX-150	0.54	0.74	1.02	1.33	1.21	1.21
	ALX-300	0.74	1.24	1.46	2.04	1.92	1.92
ALX-ASA ECO	ALX-150	0.49	0.69	0.98	1.29	1.18	1.18
	ALX-300	0.71	1.12	1.42	1.93	1.81	1.81

DLC QPL Data

| QPL Model No.	Product ID	Technical Req.	Classification	Primary Use
ALX-150UX/CT (SR/RC)	S-TFOE8Z	5.1	Premium	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires
ALX-150UX/CT HV (SR/RC)	S-CPNR5Q	5.1	Premium	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires
ALX-300UX/CT (SR/RC)	S-1GCORK	5.1	Premium	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires
ALX-300UX/CT HV (SR/RC)	S-5V273G	5.1	Premium	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires

Control and Sensors Options

	Catalog No.	Description	Ordering	Shipping	Remote Control
	SHF-OSDL/IR-PP1-LV-10V-A01	Multi-level High Frequency Occ Sensor w/ Photocell Function, Plug and Play 3.5mm port, IR remote setting	Order Separately	Field Installed (Plug/Play)	SRC-A01
	SPIR-OSDL/IR-PP1-DC-130	Multi-level Passive Infrared Occ Sensor w/ Photocell Function, Plug and Play 3.5mm port, IR remote setting	Order Separately	Field Installed (Plug/Play)	SRC-A01
	SPIR-OSDL/BT-PP1-DC-302-BLK	AleoBlue, Wireless Bluetooth PIR Occ Sensor w/ Daylight Harvesting, 12V DC input, Plug and Play 3.5mm port, 40ft high bay lens, 300ft range, Black	Order Separately	Field Installed (Plug/Play)	AleoBlue App
	PC-PP1-DC300	Photocell Sensor, Plug and Play 3.5mm port	Order Separately	Field Installed (Plug/Play)	-

*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

Specifications and Dimensions subject to change without notice.

Backshield Options

Catalog No.	Description	Ordering	Shipping
ALX-BKSHLD-S	Area Light Glare Shield Accessory Kit for ALX Series, 150W. Dark Bronze	Order Separately	Field Installed
ALX-BKSHLD-L	Area Light Glare Shield Accessory Kit, for ALX Series, 300W. Dark Bronze	Order Separately	Field Installed
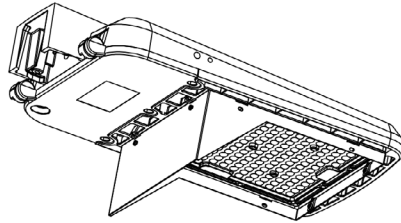
Catalog No.	L	W	H
ALX-BKSHLD-S	8.35" (212mm)	8.35" (212mm)	3.15" (80mm)
ALX-BKSHLD-L	11.65" (296mm)	11.65" (296mm)	3.15" (80mm)
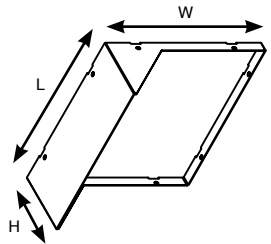
BAA and BABAA Compliant

BAA COMPLIANT

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

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

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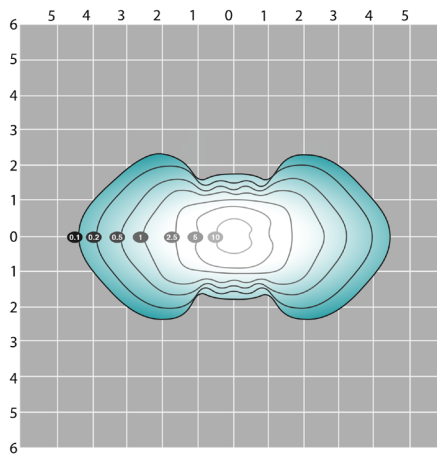
BUG Rating

Model No.	System Watts	Dist. Type	B	U	G
ALX-150UX/CT	70W/100W/150W	II	4	0	4
ALX-300UX/CT	200W/250W/300W	II	5	0	5
ALX-150UX/CT	70W/100W/150W	III	3	0	3
ALX-300UX/CT	200W/250W/300W	III	4	0	4
ALX-150UX/CT	70W/100W/150W	IV	3	0	3
ALX-300UX/CT	200W/250W/300W	IV	5	0	4
ALX-150UX/CT	70W/100W/150W	V	4	0	4
ALX-300UX/CT	200W/250W/300W	V	5	0	5

Specifications and Dimensions subject to change without notice.

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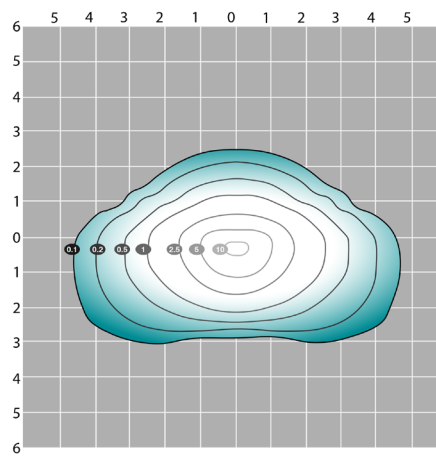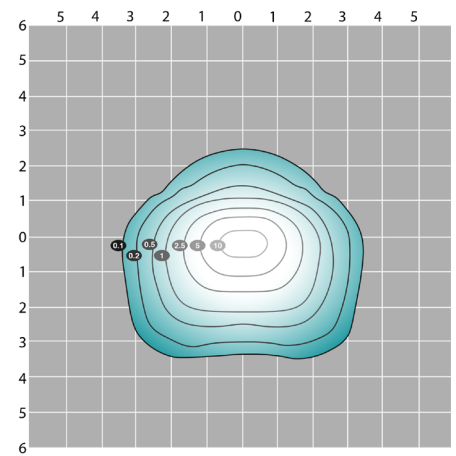
Photometric Information

150W
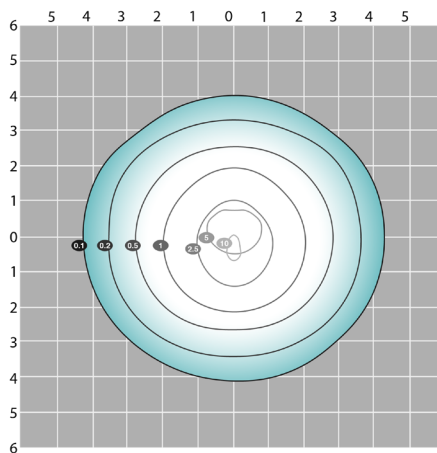
ALX-150UX/CT - T2 - 4000K

ALX-150UX/CT - T3 - 4000K
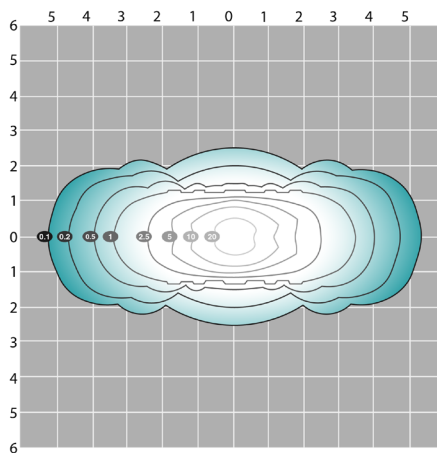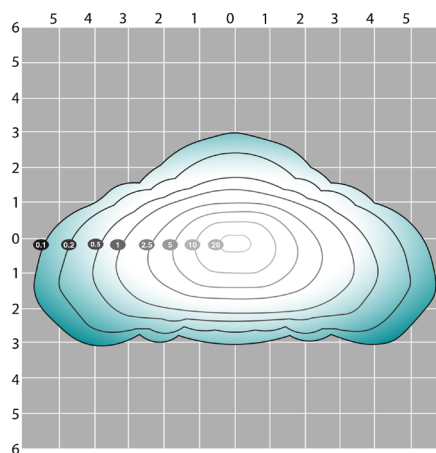

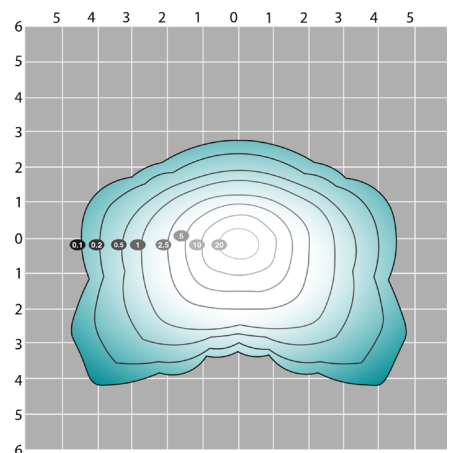ALX-150UX/CT - T4 - 4000K

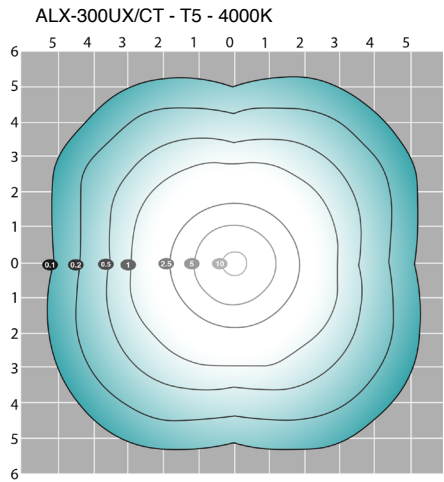ALX-150UX/CT - T5 - 5000K

300W

ALX-300UX/CT - T2 - 5000K


ALX-300UX/CT - T3 - 4000K

ALX-300UX/CT - T4 - 4000K

Specifications and Dimensions subject to change without notice.

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Photometric Information (continued)

ALX-300UX/CT - T5 - 4000K

Amber Spectrum Option

Catalog No.	Rate Wattage (Max.)	Delivered Lumens (lm)	Efficacy (lumens/W)
ALX-150UX/AMBR XE G4 (SR/RC)	150	14,566	97.1
ALX-300UX/AMBR XE G4 (SR/RC)	300	28,375	94.6

Specifications and Dimensions subject to change without notice.
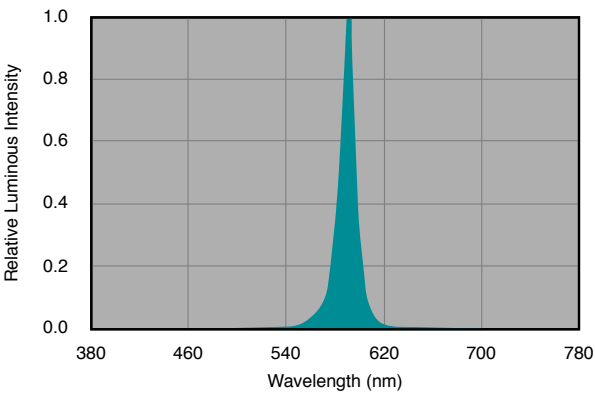
aleoblue™

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.
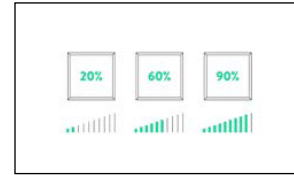
DLC NLC Qualified.

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
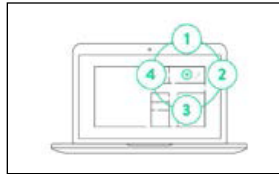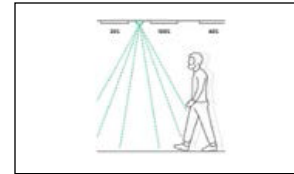- Per zone Daylight Control

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

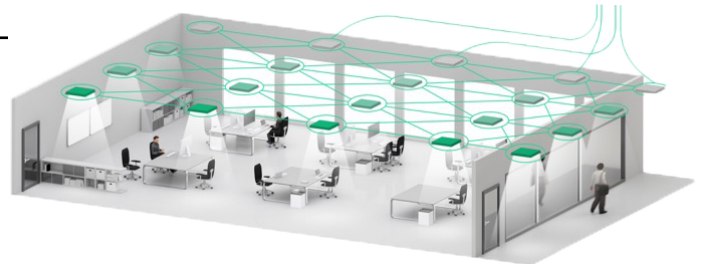Scalability to thousands of devices

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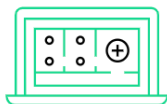
No single point of failure (no central device)

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

Specifications and Dimensions subject to change without notice.

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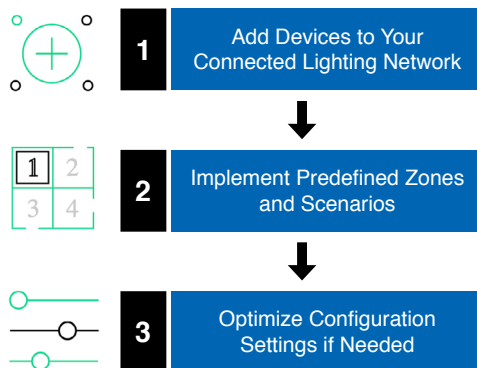
aleo**blue**™

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
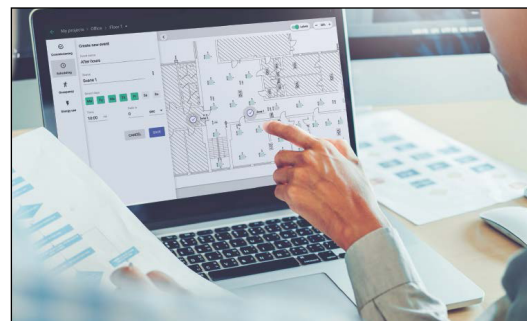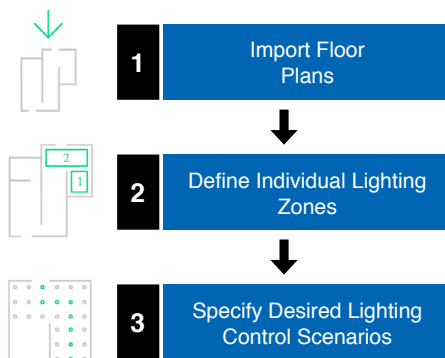
Implementation

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

aleoBlue Gateway
Model: SGW-101

*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

Specifications and Dimensions subject to change without notice.

Form ALX_Spec / Rev. 08   **Aleo Lighting, Inc.** I www.aleolighting.com I Ph: 877-358-8825

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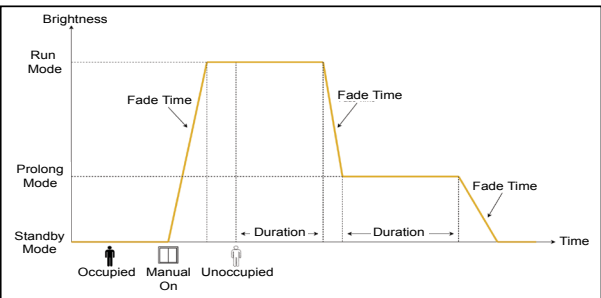
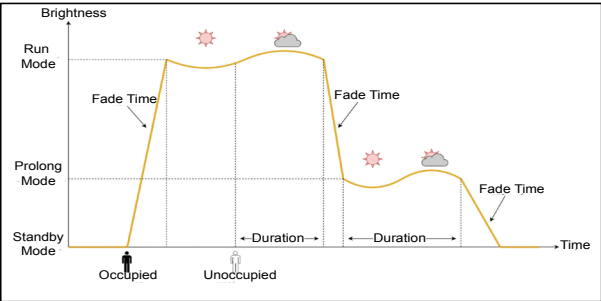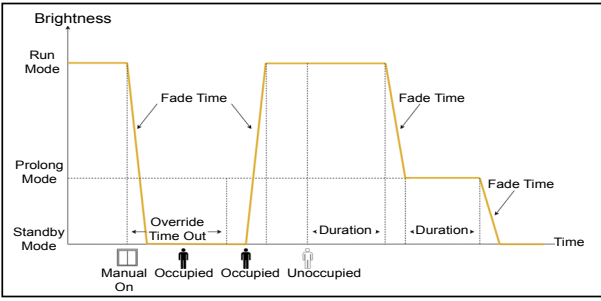| Mode / Scenario	Wireless Switch	Occupancy Sensor	Ambient Light Sensor
Unprovisioned Mode	-	-	-
Switch	On / Off / Scenes	-	-
Occupancy	On / Off / Scenes	Auto On / Off	-
Vacancy	On / Off / Scenes	Auto Off	-
Occupancy with Daylight Harvesting	On / Off / Scenes	Auto On / Off	Enabled
Vacancy with Daylight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

Occupancy Scenario
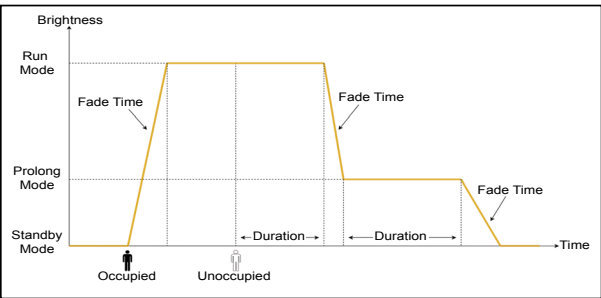
Vacancy Scenario

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

Aleo Lighting, Inc.
www.aleolighting.com
10988 Bloomfield Ave.
Santa Fe Springs, CA 90670
Ph: 877-358-8825

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