aleo™
LED LIGHTING

Project	
Notes	
Type	Date
Cat. No.	

WPL™ XE G3 Series — LED Wall Pack Luminaire

DESCRIPTION

The Aleo WPL™ XE G3 Series combines energy-efficiency, advanced optical control, and modern slim profile aesthetics to deliver enhanced performance to outdoor wall-mount lighting applications. Rugged die-cast housing provides advanced thermal management for long life and weather-proof compartment to withstand challenging, outdoor environments.

APPLICATIONS

Outdoor wall-mount applications. Building facade, Retail, Commercial, Industrial Exteriors

WET LOCATION RATED | **DLC LISTED PREMIUM** | c(UL)us | aleoblue™

WPL XE G3 Series

24W, 30W, 42W

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 improves safety and security by delivering high-efficiency illumination with precise optical distribution. Type III Med. Distribution comes standard.

Certification

UL Listed. All components have safety 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 mounting plate for quick and easy installation.

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 (must order with wall pack extension accessory).

Rated Life 75,000 hours
Limited Warranty 7-years
Efficacy Up to 114 LPW
Continuous Dimming

CONTINUOUS DIMMING 0-10V Continuous

Quick Ship

WPL-24/50K XE G3
WPL-30/50K XE G3
WPL-30/50K XE G3-EM700
WPL-42/50K XE G3

Ordering Information

Example: WPL-42/50K XE G3

WPL	42	50K	[Blank]	XE G3	[Blank]
Series	**Nominal Wattage**	**Color Temp**	**Input Voltage**	**Generation**	**Controls[1]**
WPL LED Wall Pack Luminaire	**24** 24W **30** 27W **42** 38W	**40K** 4000K **50K** 5000K **57K** 5700K	**Blank** 120V-277V	**XE G3** High Efficacy	**OSDL/BT** — AleoBlue Wireless Bluetooth Occupancy Sensor **OSDL/IR[2]** — Multi-Level Occ. Sensor w/ wireless config. **OSDL/BTEZ-B** — SimplBlue Occupancy Sensor **PC-UNV** — Photocell (120V/277V)

[1] See page 4 for factory pre-Commissioned sensor options
[2] OSDL/IR is only available for 42W and 30W

	[Blank]		[Blank]		[Blank]
	Emergency Backup*		**Accessories**		**Finish Color**
	EM700 700lm **EM1400** 1400lm		**WPL-LG-ADP-JBX-THW** Back Junction Box for WPL-42		**Blank** Dark Bronze RAL#8019 **WH** White RAL#9003 **BLK** Black RAL#9011 **SLV** Silver RAL#9006
	* EM is only available for 30W and 42W		**WPL-SM-ADP-JBX-THW** Back Junction Box for WPL-24 * Not sold assembled. See Page 4 for details		* 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	Up to 119 LPW (typ.)
CRI	70+, R9 > 0
Available CCT[1]	4000K, 5000K, 5700K
Rated Life	75,000 hours
Power Factor	> 0.9
THD	< 20%
Controls	Multi-level controls available
IP Rating	IP66
Operating Temp.	-25ºC to 40ºC

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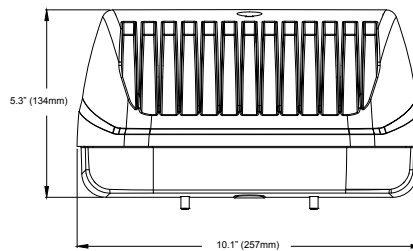Code-compliance

Performance Data

Catalog No.	Rated Wattage (W)	4000K Delivered Lumens (lm)	4000K Efficacy (lm/W)	5000K Delivered Lumens (lm)	5000K Efficacy (lm/W)	5700K Delivered Lumens (lm)	5700K Efficacy (lm/W)
WPL-24/xxK XE G3	24	2,663	110.9	2,724	112.8	-	-
WPL-30/xxK XE G3	27	3231	117.7	3245	118.7	3252	119.34
WPL-42/xxK XE G3	38	4,246	110.7	4,382	114.1	-	-

Product **Dimensions**

WPL- **24** — 5.3" (134mm), 8.2" (208.5mm), 1.6" (40mm), 4.8" (122mm)
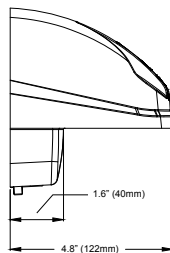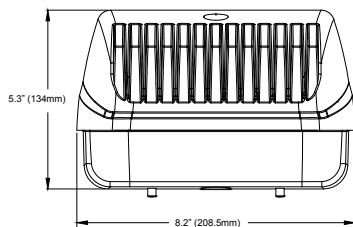
WPL- **30 / 42** — 5.3" (134mm), 10.1" (257mm), 2.2" (56mm), 6.3" (160mm)

aleo LED LIGHTING
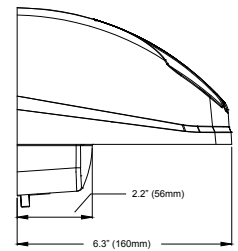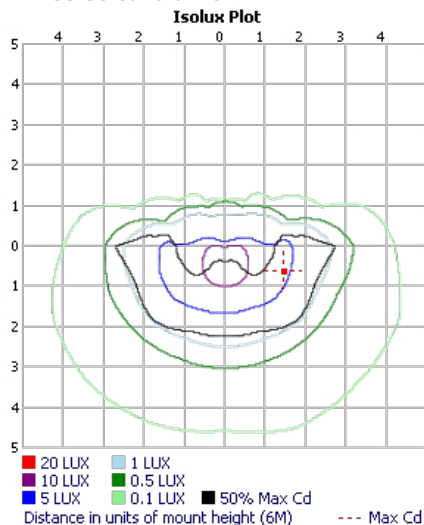
Photometric Data

WPL-24/50K 3015.6 delivered lumens, tested in accordance to IESNA LM-79
Type III Medium Distribution

Candlepower Distribution

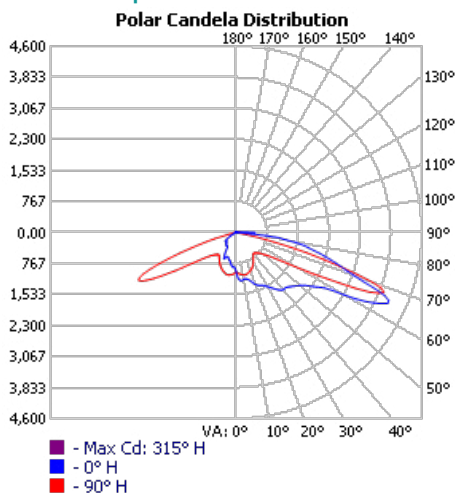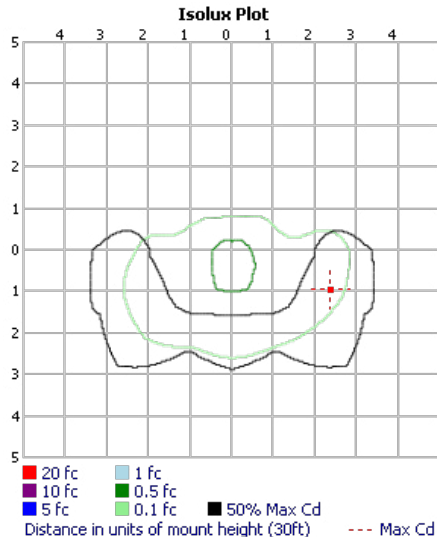Polar Candela Distribution

- Max Cd: 315° H
- 0° H
- 90° H

Isofootcandle Plot

Isolux Plot

20 LUX	1 LUX
10 LUX	0.5 LUX
5 LUX	0.1 LUX	50% Max Cd

Distance in units of mount height (6M)   --- Max Cd
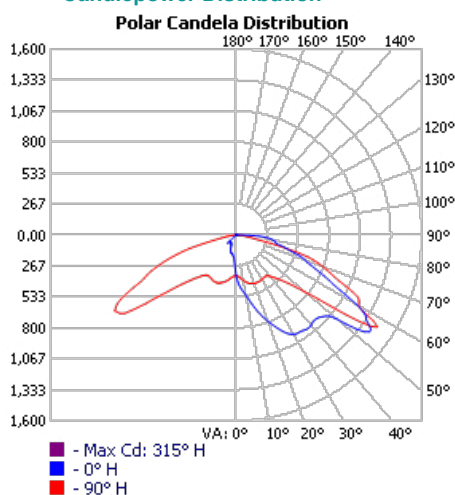
Optics	B	U	G
Type III Medium	1	1	1

WPL-42/50K 2121.5 delivered lumens, tested in accordance to IESNA LM-79
Type III Medium Distribution

Candlepower Distribution

Polar Candela Distribution

- Max Cd: 315° H
- 0° H
- 90° H

Iso foot candle Plot

Isolux Plot

20 fc	1 fc
10 fc	0.5 fc
5 fc	0.1 fc	50% Max Cd

Distance in units of mount height (30ft)   --- Max Cd

Optics	B	U	G
Type III Medium	1	1	1

DLC QPL Data

DLC QPL Model No.	Product ID.	Technical Req.	Classification	Primary Use
WPL-24/40K XE G3	PLJI146AQDPQ	4.3	Premium	Outdoor Full-Cutoff Wall-Mounted Area Luminaires
WPL-24/50K XE G3	PL84Z5QR6J7P	4.3	Premium	Outdoor Full-Cutoff Wall-Mounted Area Luminaires
WPL-30/40K XE G3	PLR83AQIY4FB	4.4	Premium	Outdoor Full-Cutoff Wall-Mounted Area Luminaires
WPL-30/50K XE G3	PLB6MAM55HE0	4.4	Premium	Outdoor Full-Cutoff Wall-Mounted Area Luminaires
WPL-30/57K XE G3	PLIGBN1829WV	4.4	Premium	Outdoor Full-Cutoff Wall-Mounted Area Luminaires
WPL-42/40K XE G3	PLWHOYCDB4ZK	4.3	Premium	Outdoor Full-Cutoff Wall-Mounted Area Luminaires
WPL-42/50K XE G3	PLTH68ZON61Q	4.3	Premium	Outdoor Full-Cutoff Wall-Mounted Area Luminaires

DLC LISTED PREMIUM

Specifications and Dimensions subject to change without notice.

Back Junction Box Accessory

Junction Box Dimensions

4.6" (117mm)   2" (50mm)

5" (127mm)
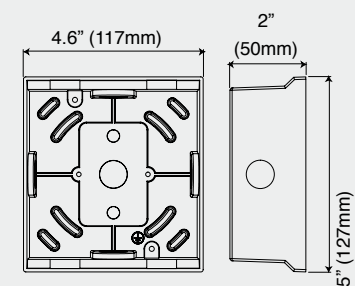
** Ordered separately as an accessory

Order No.	WPL	ADP	JBX-THW
WPL-LG-ADP-JBX-THW	**WPL-42**	**LG-ADP** WPL-42 Mount Adapter	**Junction Box** Wall Pack Back Junction Box
WPL-SM-ADP-JBX-THW	**WPL-30**	**LG-ADP** WPL-30 Mount Adapter	
	WPL-24	**SM-ADP** WPL-24 Mount Adapter	

Control Pre-Commissioning

Example: WPL-42/50K XE G3-OSDL/IR **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.

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
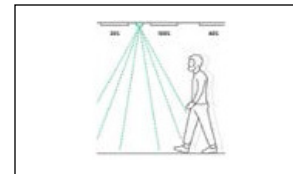- Per zone Daylight Control
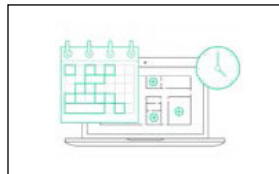
Scheduling	High and Low End Trim
	20% 60% 90%
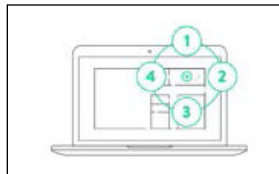
Scenes	Occupancy Sensing

- 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

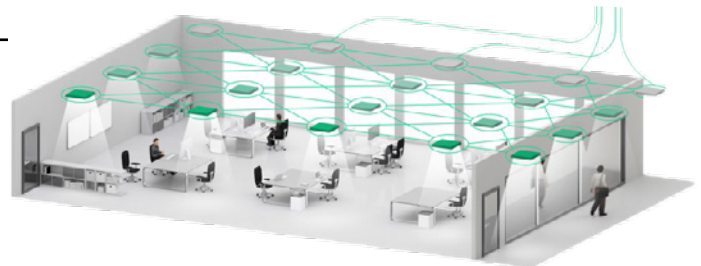Scalability to thousands of devices

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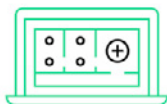
No single point of failure (no central device)

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

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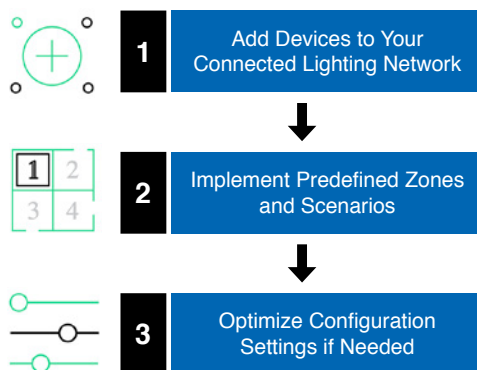
Planning

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
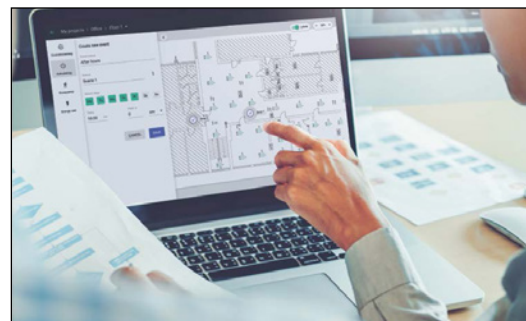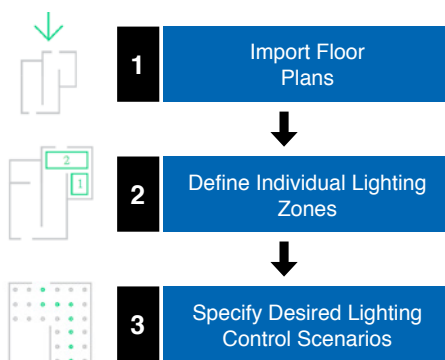
Implementation

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
Model: -OSDL/BT

aleoBlue Gateway
Model: SGW-101

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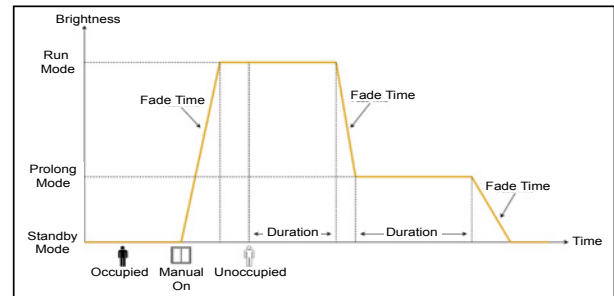
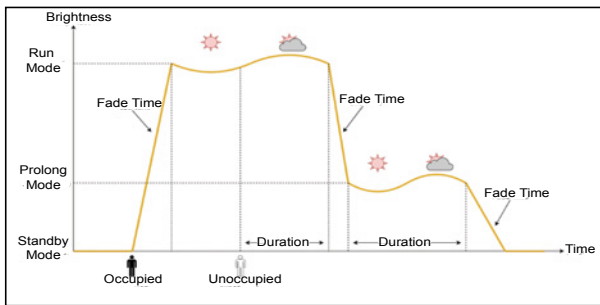| Mode / Scenario	Wireless Switch	Occupancy Sensor	Ambient Light Sensor
Unprovisioned Mode	-	-	-
Switch	On / Off / Scenes	-	-
Occupancy	On / Off / Scenes	Auto On / Off	-
Vacancy	On / Off / Scenes	Auto Off	-
Occupancy with Daylight Harvesting	On / Off / Scenes	Auto On / Off	Enabled
Vacancy with Daylight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

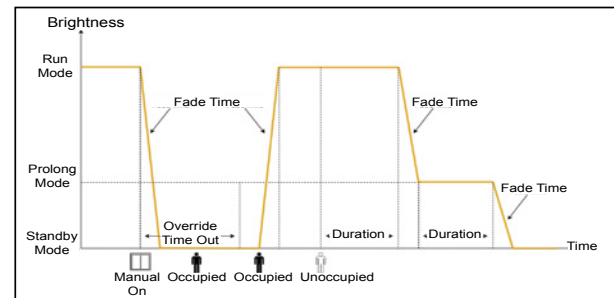### Occupancy Scenario
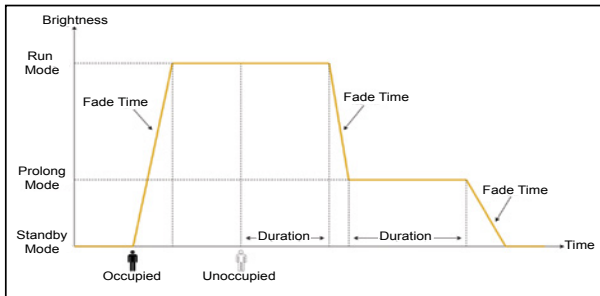
Vacancy Scenario

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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