aleo™
LED LIGHTING

Project	
Notes	
Type	Date
Cat. No.	

XLBM™ UX Series — Compact Linear LED High Bay

DESCRIPTION

The Aleo XLBM™ UX Series Compact Linear LED High Bay delivers industry-leading performance with an extremely attractive ROI. Superior performance, ultra high-efficacy and premium quality provides superior 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, retail.

Specification Features

Construction
Rugged and durable construction withstands warehouse environments. Luminaire features white durable finish.

Optical System
Reflector systems features highly reflective coating, delivering adequate light for high-mounting buildings. Diffuser lens reduces glare and improves occupant working conditions while maintaining high efficiency emission.

Certification
UL Listed. All components have UL certification. UL Class 2. Driver: SCP, OTP, OVP protection, FCC Part 15 Class B, UL8750 Class 2.

Warranty
7-year Limited Warranty. See warranty documentation for more information.

Installation / Mounting
Various mounting options available, including suspension, pendant, and surface mount. V-hook hangers and chain accessories included.

Electrical
Luminaire utilizes high-efficacy LED packages maintained at cool temperatures for long life, high efficacy. Reliable high-efficiency driver features continuous dimming. Universal voltage (120-277V) for convenient installation. Comes equipped with luminaire quick-disconnect.

Controls / Dimming
Continuous dimming (0-10V). Comes standard with sensor receptacle for plug and play field installation of sensors.

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 (2) different CCTs via switch inside the housing.

XLBM UX Series

17"
100W / 115W / 135W

23"
155W / 185W / 200W

31"
200W / 230W / 270W

44"
270W / 340W / 400W

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

CONTINUOUS DIMMING
0-10V Continuous

Quick Ship

XLBM-135UX/8CT (SR/RC)
XLBM-200UX/8CT (SR/RC)
XLBM-270UX/8CT (SR/RC)
XLBM-400UX/8CT (SR/RC)

Ordering Information

Example: XLBM-135UX/8CT (SR/RC)

XLBM	135UX	8	CT	[Blank]	[Blank]	(SR/RC)
Series	**Nominal Max Wattage**	**CRI**	**Color Temp.**	**Input Voltage**	**Dimming**	**Sensor Ready**
XLBM Compact Linear LED High Bay	**135UX** 135W **200UX** 200W **270UX** 270W **400UX** 400W	**8** 82+	**CT** Field Adjustable 4000K 5000K	**Blank** 120V-277V	**Blank** 0-10V Continuous Dimming	**(SR/RC)** Sensor Ready with sensor receptacle

Options

Emergency Backup[1]	**Controls**	**Accessories**	**Designation**
EM1400 1400lm **EM2000** 2000lm **EM2400** 2400lm	See pg. 3 for Sensor/Controls information	**ACC** Aircraft cable suspension kit **CRD** Cord (see pg.3 for details) **SP10** 10kA Surge Protector **WG** Wire Guard **PMK** Single-point Pendant-mount Kit	**BAA** Buy American Act Compliant **BABAA** Build America, Buy America Act Compliant

**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	> 150 LPW (typ.)
CRI	82+, R9 > 0
Available CCT	4000K / 5000K
Rated Life	75,000 hours
L70[2]	> 54,000 hours
Power Factor	> 0.9
THD	< 20%
Dimming	0-10V Continuous (10-100%)
Operating Temp.	-20ºC to 50ºC
Environment	Suitable for Damp Location

Mounting Information
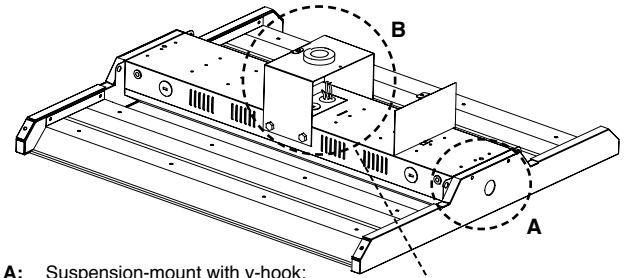
A: Suspension-mount with v-hook: Chain or cable
B: Pendant Mount
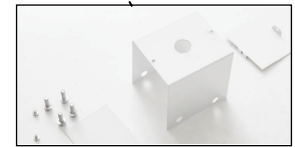
PMK Pendant-mount Kit (sold separately)

Performance Data

| Form Factor	Catalog No.	Nominal Wattage	Color Temperature	Lumens (lm)	Wattage (W)	Efficacy (lm/W)
17"	XLBM-135UX/8CT (SR/RC)	100	4000K	15,479	100.9	153.4
			5000K	15,641	102.9	152.0
		115	4000K	17,697	117.9	150.1
			5000K	17,886	120.2	148.8
		135	4000K	19,480	131.0	148.7
			5000K	19,665	133.5	147.3
23"	XLBM-200UX/8CT (SR/RC)	155	4000K	22,314	143.4	155.6
			5000K	22,809	146.3	155.9
		185	4000K	26,035	172.3	151.1
			5000K	26,617	175.8	151.4
		200	4000K	28,233	191.8	147.2
			5000K	28,866	195.7	147.5
31"	XLBM-270UX/8CT (SR/RC)	200	4000K	29,275	189.6	154.4
			5000K	30,032	194.0	154.8
		230	4000K	33,167	219.5	151.1
			5000K	34,027	224.6	151.5
		270	4000K	38,402	260.0	147.7
			5000K	39,395	266.0	148.1

NOTES:

[1]   IMPORTANT: THE BATTERY MUST BE RECHARGED EVERY THREE (3) MONTHS. IF NOT RECHARGED ACCORDINGLY, BATTERY MAY FAIL AND VOID WARRANTY

[2]   L70 hours calculated based on LED package manufacturer LM80 report and ISTMT report of LED in luminaire. Stated values are for select catalog numbers.

Specifications and Dimensions subject to change without notice.

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Performance Data (Cont'd)
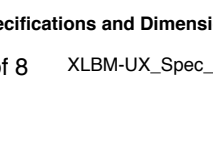
Form Factor	Catalog No.	Nominal Wattage	Color Temperature	Lumens (lm)	Wattage (W)	Efficacy (lm/W)
44"	XLBM-400UX/8CT (SR/RC)	270	4000K	39,697	254.3	156.1
			5000K	40,425	259.8	155.6
		340	4000K	48,797	323.8	150.7
			5000K	49,672	330.7	150.2
		400	4000K	56,710	382.4	148.3
			5000K	57,755	390.5	147.9

Product **Dimensions**
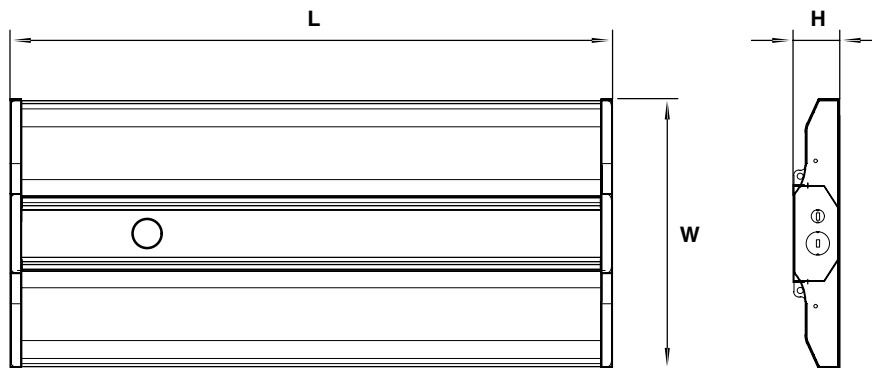
Model No.	L	W	H
XLBM-135UX/8CT (SR/RC)	16.5" (420mm)	10.2" (260mm)	1.8" (45mm)
XLBM-200UX/8CT (SR/RC)	22.8" (580mm)	10.2" (260mm)	1.8" (45mm)
XLBM-270UX/8CT (SR/RC)	31.1" (790mm)	10.2" (260mm)	1.8" (45mm)
XLBM-400UX/8CT (SR/RC)	44.1" (1120mm)	10.2" (260mm)	1.8" (45mm)

Control and Sensors Options

Catalog No.	Description	Ordering	Shipping	Remote Control
SHF-OSDL/IR-PP1-LV-10V-A01	Basic 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	Basic 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-300	AleoBlue, Wireless Bluetooth PIR Occ Sensor w/ Daylight Harvesting, 12V DC input, Plug and Play 3.5mm port, 40ft high bay lens	Order Separately	Field Installed (Plug/Play)	AleoBlue App
SPIR-OSDL/BTEZ-PP1-DC-100	SimplBlue PIR Occ Sensor w/ Daylight Harvesting, Plug and Play 3.5mm port, comes w/ HBL1 lens	Order Separately	Field Installed (Plug/Play)	SimplBlue App

*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.

Surge Protector Options

Catalog No.	Description	Ordering	Shipping
SP10	10kA Surge Protector	Order and Ship Separately	Field Install

Cord Set Options

Catalog No.	Description	Ordering	Shipping
CRD-A	SO CORD 6' 18/3	Order with Model No.	Partially Factory Installed - Snap-in in the Field
CRD-B	SO CORD 10' 18/3	Order with Model No.	Partially Factory Installed - Snap-in in the Field
CRD-C	SO CORD 12' 18/3	Order with Model No.	Partially Factory Installed - Snap-in in the Field
CRD-D	SO CORD 15' 18/3	Order with Model No.	Partially Factory Installed - Snap-in in the Field
CRD-E	SO CORD 20' 18/3	Order with Model No.	Partially Factory Installed - Snap-in in the Field
CRD-F	SO CORD 25' 18/3	Order with Model No.	Partially Factory Installed - Snap-in in the Field
CRD-G	SO CORD 30' 18/3	Order with Model No.	Partially Factory Installed - Snap-in in the Field

Plug Options

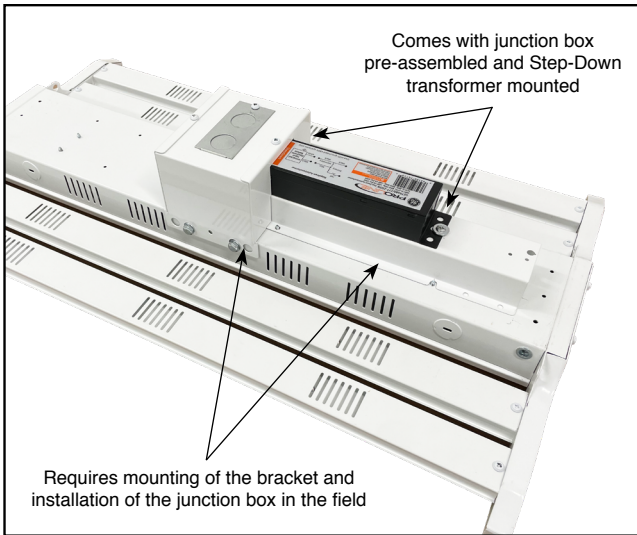| Catalog No.	Description	Ordering	Shipping
PLG-1	Straight plug, 125V, NEMA 5-15P	Order with Model No.	Factory Installed
PLG-2	Twist-lock, 125V, NEMA L5-15P	Order with Model No.	Factory Installed
PLG-4	Twist-lock, 277V, NEMA L7-15P	Order with Model No.	Factory Installed
PLG-5	Twist-lock, 480V, NEMA L8-20P	Order with Model No.	Factory Installed
PLG-6	Twist-lock, 250V, NEMA L6-15P	Order with Model No.	Factory Installed

Mounting Options

Catalog No.	Description	Ordering	Shipping
PMK	Pendant-mount kit (1/2" NPT hole size)	Order and Ship Separately	Field Install
SMB	Surface-mount bracket	Order and Ship Separately	Field Install
ACC	Aircraft Cable - 10' 1/16 cable toggle kit with grip lock	Order and Ship Separately	Field Install
HB-MH-1/2 NPT	Aircraft Cable - 20' 1/16 cable toggle kit with grip lock	Order and Ship Separately	Field Install

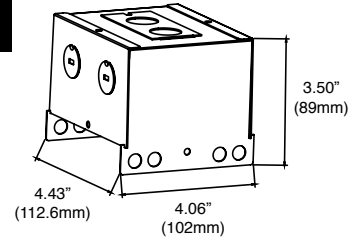**Specifications and Dimensions subject to change without notice.**

Transformer Kit Options

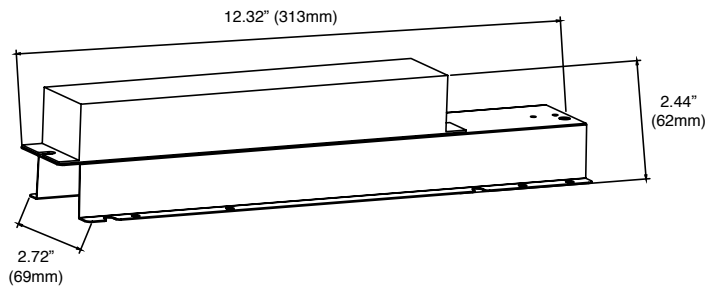| Catalog No.	Description	Ordering	Shipping
XLBM-EXT-480V-250W*	Field-install external 480V step-down transformer kit, for XLBM/ILB, 250W(VA) max, magnetic core and coil, for use on single phase	Order and Ship Separately	Field Install

*This kit is only compatible with 135W and 200W. For 270W and 400W, factory install only.

Comes with junction box pre-assembled and Step-Down transformer mounted

Requires mounting of the bracket and installation of the junction box in the field

Junction Box

3.50" (89mm)

4.43" (112.6mm)

4.06" (102mm)

Step-Down Transformer

12.32" (313mm)

2.44" (62mm)

2.72" (69mm)

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

DLC QPL Data

DLC LISTED PREMIUM

QPL Model No.	Product ID	Technical Req.	Classification	Primary Use
XLBM-400UX/8CT (SR/RC)	S-FRBC55	5.1	Premium	High-Bay Luminaires for Commercial and Industrial Buildings
XLBM-200UX/8CT (SR/RC)	S-FTL6VN	5.1	Premium	High-Bay Luminaires for Commercial and Industrial Buildings
XLBM-270UX/8CT (SR/RC)	S-M28L2Q	5.1	Premium	High-Bay Luminaires for Commercial and Industrial Buildings
XLBM-135UX/8CT (SR/RC)	S-VYQWMR	5.1	Premium	High-Bay Luminaires for Commercial and Industrial Buildings

Specifications and Dimensions subject to change without notice.

aleoblue™

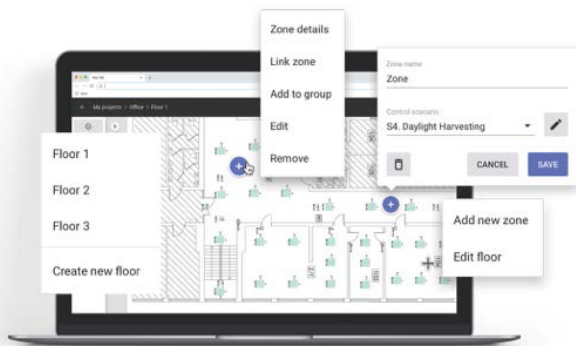## AleoBlue Wireless Bluetooth Controls

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.
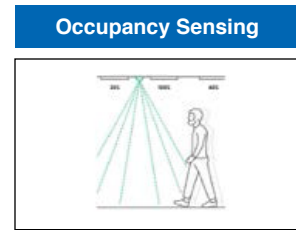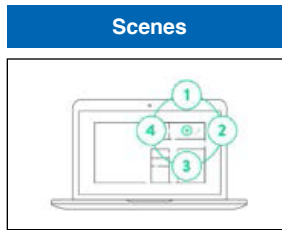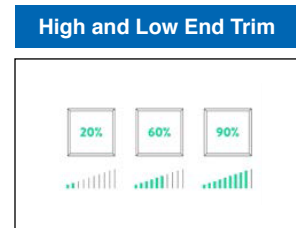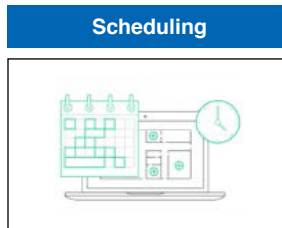
DLC NLC Qualified.

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**
	20% 60% 90%

Scenes	**Occupancy Sensing**

- 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

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

Bluetooth Mesh Technology Advantages

The fastest low-power communication
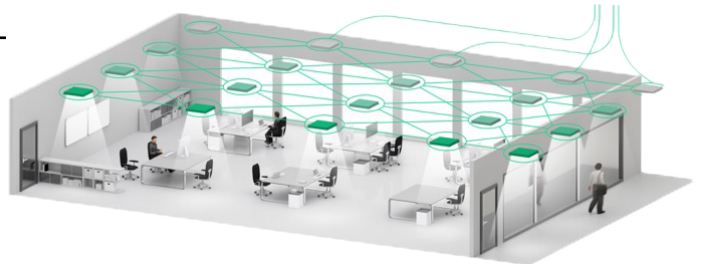
Scalability to thousands of devices

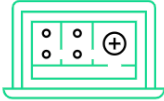The most advanced encryption standards as well as the cutting-edge device authentication

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.

XLBM-UX_Spec_Rev03   **Aleo Lighting, Inc.** I www.aleolighting.com I Ph: 877-358-8825
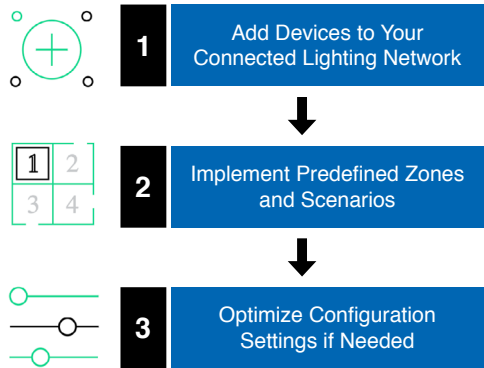
Planning

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
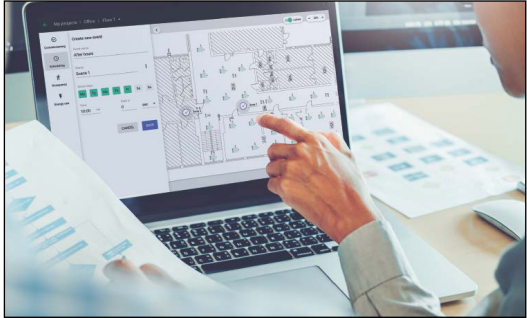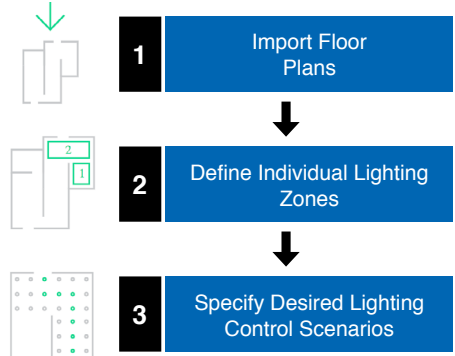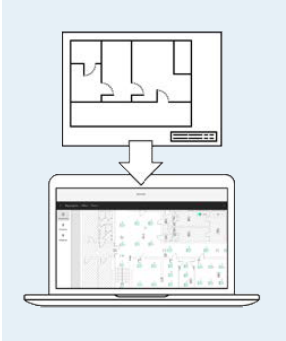
Implementation

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:
SPIR-OSDL/BT-PP1-DC-300

EnOcean BLE Single-Rocker Switch
Model: ESRPB

EnOcean BLE Double-Rocker Switch
Model: EDRPB

aleoBlue Gateway
Model: SGW-101

Specifications and Dimensions subject to change without notice.

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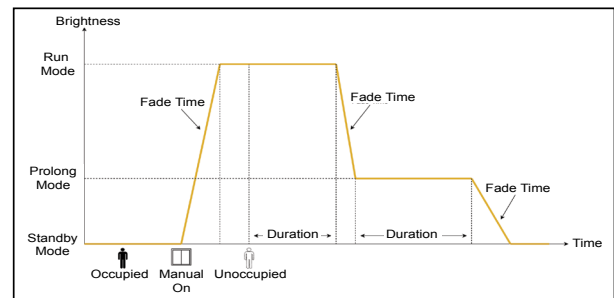
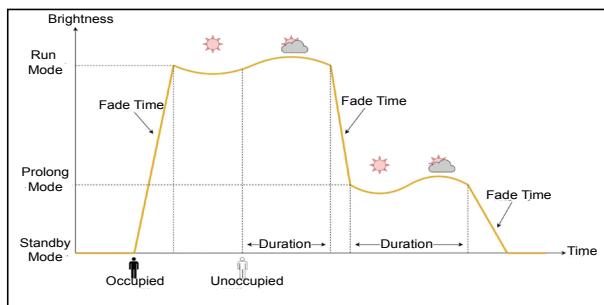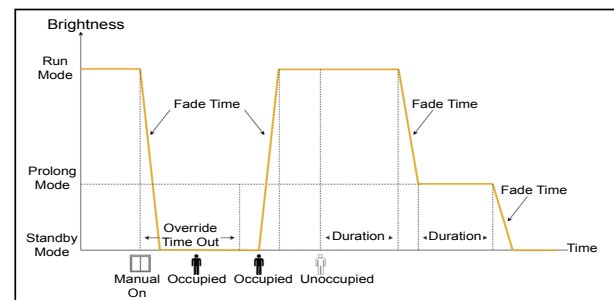| Mode / Scenario	Wireless Switch	Occupancy Sensor	Ambient Light Sensor
Unprovisioned Mode	-	-	-
Switch	On / Off / Scenes	-	-
Occupancy	On / Off / Scenes	Auto On / Off	-
Vacancy	On / Off / Scenes	Auto Off	-
Occupancy with Daylight Harvesting	On / Off / Scenes	Auto On / Off	Enabled
Vacancy with Daylight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

Occupancy Scenario
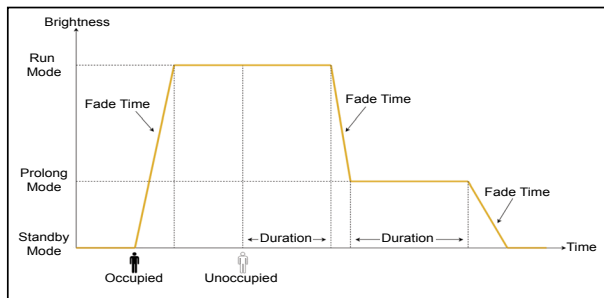
Vacancy Scenario

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