



Project	
Notes	
Type	Date
Cat. No.	

XLB™ UX Series

Ultra Efficient Linear LED High Bay

DESCRIPTION

The Aleo XLB™ UX Series Ultra High Efficiency LED Linear 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. DLC Premium

Warranty¹

7-year Limited Warranty. See warranty documentation for more information. (Must register for 7-year warranty)

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.

Installation / Mounting

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

Controls / Dimming

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

XLB UX Series

- 1.5'**
75W / 95W / 100W
- 2'**
120W / 140W / 160W
170W / 190W / 210W
- 4'**
230W / 260W / 290W

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



Quick Ship

XLB1-100UX/850/F UXE G4 ECO (SR/RC)
XLB2-160UX/850/F UXE G4 ECO (SR/RC)
XLB2-200UX/850/F UXE G4 ECO (SR/RC)
XLB4-270UX/850/F UXE G4 ECO (SR/RC)

Ordering Information

Example: XLB1-100UX/850/F UXE G4 ECO (SR/RC)

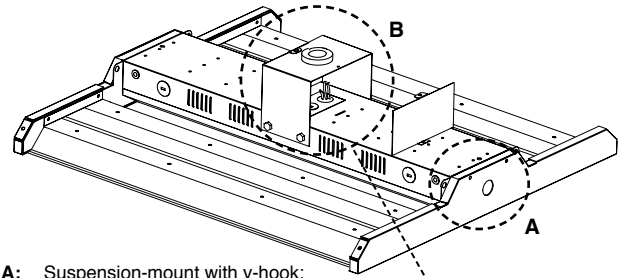
XLB	1	100UX	8	50	F	[Blank]	[Blank]	UXE ECO
Series	Form Factor	Nominal Max Wattage	CRI	Color Temp²	Lens Diffuser	Input Voltage	Dimming	Designation
XLB Low-Profile Ultra Efficient High Bay	1 1.5' 2 2' 4 4'	100UX 100W 160UX 160W 200UX 210W 270UX 290W	8 82+	40 4000K 50 5000K	F Frosted	Blank 120V-277V 480 480V	Blank 0-10V Continuous Dimming	UXE ECO Ultra High Efficacy
(XX)	[Blank]	Options						
Nominal Wattage	(SR/RC)	Emergency Backup³	Controls		Accessories		Designation	
1.5' 75W / 95W / 100W 2' 120W / 140W / 160W 170W / 190W / 210W 4' 230W / 260W / 290W	Sensor Ready with sensor receptacle	EM1400 1400lm EM2000 2000lm EM2400 2400lm	OSDL/BT AleoBlue Wireless Bluetooth Occupancy Sensor OSDL/HF/IR Multi-Level Occ Sensor w/ wireless config. <small>(See pg. 3 for ordering code)</small>		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.

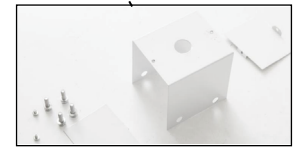
Performance Summary

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 ²	4000K, 5000K
Color Consistency ⁴	5-step MacAdam Ellipse
Rated Life	75,000 hours
L70 ⁵	> 54,000 hours
Power Factor	> 0.9
THD	< 20%
Dimming	0-10V Continuous (10-100%)
Operating Temp.	-20°C to 50°C
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.	Rated Wattage (W)	Tested Wattage (W)	4000K		5000K	
				Delivered Lumens (lm)	Efficacy (lm/W)	Delivered Lumens (lm)	Efficacy (lm/W)
1.5'	XLB1-100UX/8xx/F UXE G4 ECO (SR/RC)	75	73	12075	161	12150	162
		95	87	14915	157	15010	158
		100	102	15100	151	15200	152
2'	XLB2-160UX/8xx/F UXE G4 ECO (SR/RC)	120	123	19080	159	19200	160
		140	142	21700	155	21840	156
		160	162	24320	152	24480	153
	XLB2-200UX/8xx/F UXE G4 ECO (SR/RC)	170	170	26860	158	27370	161
		190	190	29260	154	29830	157
		210	210	31710	151	32340	154
4'	XLB4-270UX/8xx/F UXE G4 ECO (SR/RC)	230	224	37490	163	37720	164
		260	252	41600	160	41860	161
		290	281	45240	156	45530	157

NOTES:

- ¹ Must register project to qualify for 7-year Warranty
- ² Quick ship: 5000K. Other CCTs may require a lead time or be special order
- ³ IMPORTANT: THE BATTERY MUST BE RECHARGED EVERY THREE (3) MONTHS. IF NOT RECHARGED ACCORDINGLY, BATTERY MAY FAIL AND VOID WARRANTY
- ⁴ Typical color consistency. May vary or be changed.
- ⁵ 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.

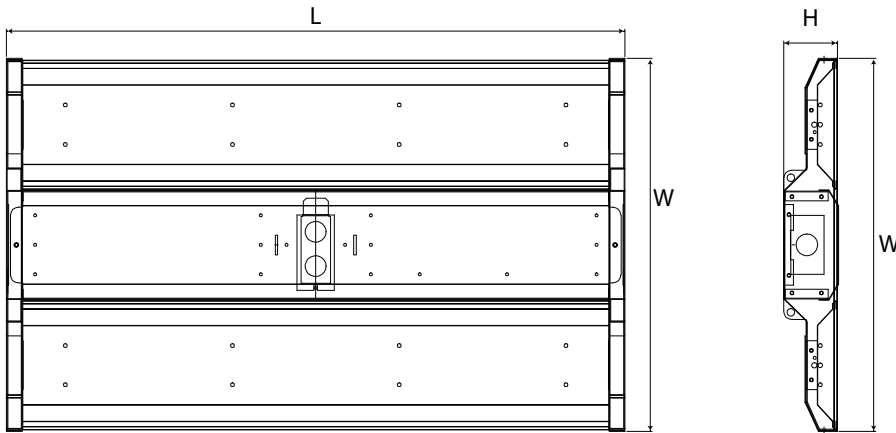
DLC QPL Data



QPL Model No.	Product ID	Technical Req.	Classification	Primary Use
XLB1-100UX/840/F UXE G4 ECO (SR/RC) (75)	P018LZZX	5.1	Premium	High-Bay Luminaires for Commercial and Industrial Buildings
XLB1-100UX/850/F UXE G4 ECO (SR/RC) (75)	P40AS47J	5.1	Premium	High-Bay Luminaires for Commercial and Industrial Buildings
XLB1-100UX/840/F UXE G4 ECO (SR/RC) (95)	PYIPXOLM	5.1	Premium	High-Bay Luminaires for Commercial and Industrial Buildings
XLB1-100UX/850/F UXE G4 ECO (SR/RC) (95)	PUZIENSV	5.1	Premium	High-Bay Luminaires for Commercial and Industrial Buildings
XLB1-100UX/840/F UXE G4 ECO (SR/RC) (100)	P7RRFO5Y	5.1	Premium	High-Bay Luminaires for Commercial and Industrial Buildings
XLB1-100UX/850/F UXE G4 ECO (SR/RC) (100)	P936JQP9	5.1	Premium	High-Bay Luminaires for Commercial and Industrial Buildings
XLB2-160UX/840/F UXE G4 ECO (SR/RC) (120)	POZ83PF6	5.1	Premium	High-Bay Luminaires for Commercial and Industrial Buildings
XLB2-160UX/850/F UXE G4 ECO (SR/RC) (120)	PB0BA1J4	5.1	Premium	High-Bay Luminaires for Commercial and Industrial Buildings
XLB2-160UX/840/F UXE G4 ECO (SR/RC) (140)	PD6YTCAS	5.1	Premium	High-Bay Luminaires for Commercial and Industrial Buildings
XLB2-160UX/850/F UXE G4 ECO (SR/RC) (140)	P25JVADL	5.1	Premium	High-Bay Luminaires for Commercial and Industrial Buildings
XLB2-160UX/840/F UXE G4 ECO (SR/RC) (160)	P01AU81R	5.1	Premium	High-Bay Luminaires for Commercial and Industrial Buildings
XLB2-160UX/850/F UXE G4 ECO (SR/RC) (160)	PP1UL46G	5.1	Premium	High-Bay Luminaires for Commercial and Industrial Buildings
XLB2-200UX/840/F UXE G4 ECO (SR/RC) (170)	PZIDA349	5.1	Premium	High-Bay Luminaires for Commercial and Industrial Buildings
XLB2-200UX/850/F UXE G4 ECO (SR/RC) (170)	PBWWBOED	5.1	Premium	High-Bay Luminaires for Commercial and Industrial Buildings
XLB2-200UX/840/F UXE G4 ECO (SR/RC) (190)	PZVG2DRX	5.1	Premium	High-Bay Luminaires for Commercial and Industrial Buildings
XLB2-200UX/850/F UXE G4 ECO (SR/RC) (190)	PD375Y3E	5.1	Premium	High-Bay Luminaires for Commercial and Industrial Buildings
XLB2-200UX/840/F UXE G4 ECO (SR/RC) (210)	PQV29UGG	5.1	Premium	High-Bay Luminaires for Commercial and Industrial Buildings
XLB2-200UX/850/F UXE G4 ECO (SR/RC) (210)	PLRBZI0V	5.1	Premium	High-Bay Luminaires for Commercial and Industrial Buildings
XLB4-270UX/840/F UXE G4 ECO (SR/RC) (230)	PGDLGD7K	5.1	Premium	High-Bay Luminaires for Commercial and Industrial Buildings
XLB4-270UX/850/F UXE G4 ECO (SR/RC) (230)	PS9DD7FD	5.1	Premium	High-Bay Luminaires for Commercial and Industrial Buildings
XLB4-270UX/840/F UXE G4 ECO (SR/RC) (260)	PCJNIEB6	5.1	Premium	High-Bay Luminaires for Commercial and Industrial Buildings
XLB4-270UX/850/F UXE G4 ECO (SR/RC) (260)	P56XY9G0	5.1	Premium	High-Bay Luminaires for Commercial and Industrial Buildings
XLB4-270UX/840/F UXE G4 ECO (SR/RC) (290)	P6EYGUHK	5.1	Premium	High-Bay Luminaires for Commercial and Industrial Buildings
XLB4-270UX/850/F UXE G4 ECO (SR/RC) (290)	PFVDYB5E	5.1	Premium	High-Bay Luminaires for Commercial and Industrial Buildings

Specifications and Dimensions subject to change without notice.

Product Dimensions



Model No.	L	W	H
XLB1-100UX/8xx/F UXE G4 ECO (SR/RC)	17.32" (440mm)	15" (380mm)	2.2" (56mm)
XLB2-160UX/8xx/F UXE G4 ECO (SR/RC)	24.8" (630mm)	15" (380mm)	2.2" (56mm)
XLB2-200UX/8xx/F UXE G4 ECO (SR/RC)	24.8" (630mm)	15" (380mm)	2.2" (56mm)
XLB4-270UX/8xx/F UXE G4 ECO (SR/RC)	46.5" (1181mm)	15" (380mm)	2.2" (56mm)

Accessory Options



***Plug and Play Sensor**

Easy field install Occ. Sensor

Model No. **SHF-OSDL/IR-PP1-LV-10V-A01**

Microwave, Occ. Sensor w/
Daylight

Model No. **SPIR-OSDL/BTEZ-PP1-DC-100**

SimpliBlue Bluetooth PIR Occ.
Sensor w/ Daylight

Mounting Accessories

- PMK** Pendant-mount kit (1/2" NPT hole size)
- SMB** Surface-mount bracket
- ACC** Aircraft Cable - 10' 1/16 cable toggle kit with grip lock
- HB-MH-1/2 NPT** Mounting Hook compatible with PMK, 1/2" NPT chase Nipple, White Finish

Controls

- OSDL/HF/IR** Multi-Level PIR Occ Sensor with photocell function and Wireless IR config.
- OSDL/BT** Wireless Bluetooth Occupancy Sensor

Surge Protector

- SP10** 10kA Surge Protector

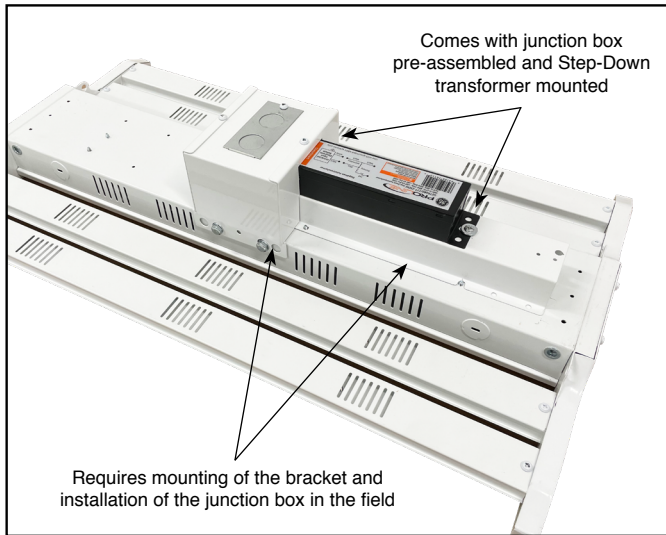
Cord Set

- CRD-A** SO Cord 6' 18/3
- CRD-B** SO Cord 10' 18/3
- CRD-C** SO Cord 12' 18/3
- CRD-D** SO Cord 15' 18/3
- CRD-E** SO Cord 20' 18/3
- CRD-F** SO Cord 25' 18/3
- CRD-G** SO Cord 30', 18/3

Plug

- PLG-1** Straight plug, 125V, NEMA 5-15P
- PLG-2** Twist-lock, 125V, NEMA L5-15P
- PLG-4** Twist-lock, 277V, NEMA L7-15P
- PLG-5** Twist-lock, 480V, NEMA L8-20P
- PLG-6** Twist-lock, 250V, NEMA L6-15P

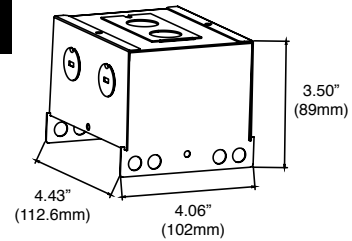
Accessory Options (Cont'd)



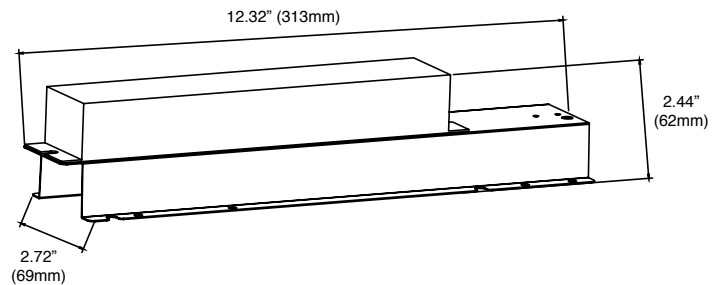
Transformer Kit

XLB-EXT-480V-250W Field-install external 480V step-down transformer kit, for XLB/ILB, 250W(VA) max, magnetic core and coil, for use on single phase

Junction Box



Step-Down Transformer



BAA and BABAA 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



AleoBlue Wireless Bluetooth Controls

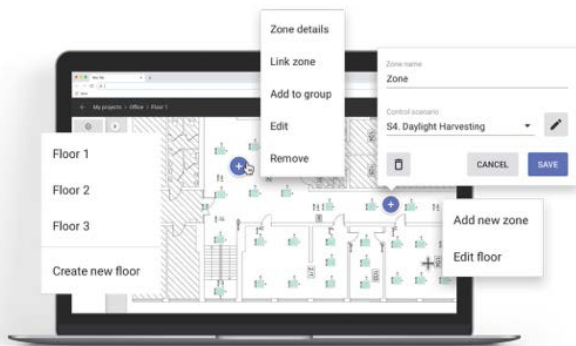


The AleoBlue is a complete solution for managing connected lighting systems using a Bluetooth Mesh lighting network. This enables seamless implementation of simple to complex lighting control scenarios without specialized training or lighting control engineering expertise.

DLC NLC Qualified.

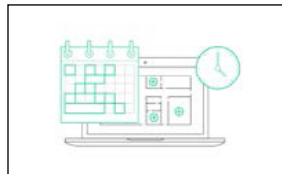
Features and Benefits

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

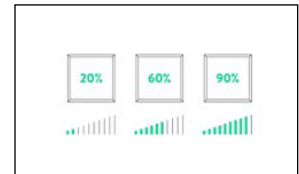


- Optimized Energy Consumption
- Less Hassle with On-Site Adjustments
- More Savings
- Increased Safety
- More Flexibility

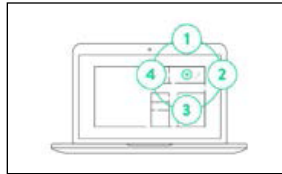
Scheduling



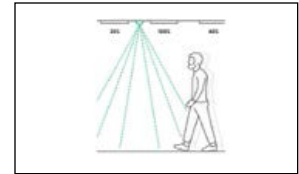
High and Low End Trim



Scenes



Occupancy Sensing



- 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



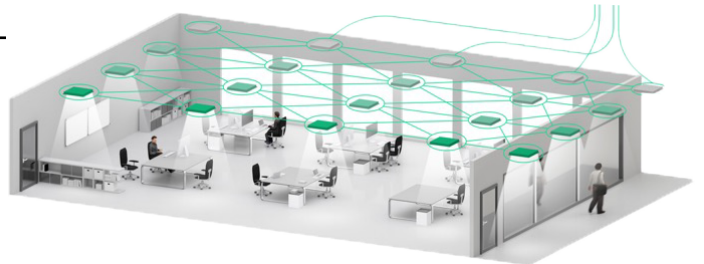
The most advanced encryption standards as well as the cutting-edge device authentication



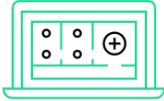
No single point of failure (no central device)



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

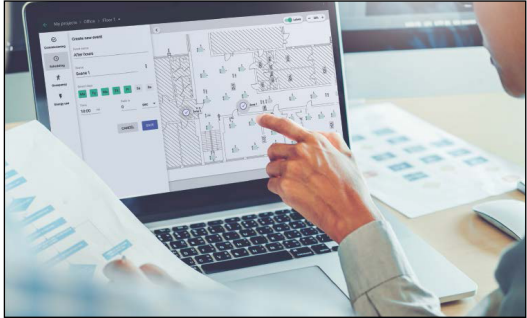
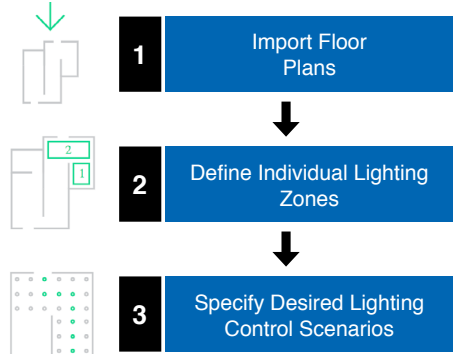


Specifications and Dimensions subject to change without notice.



Planning

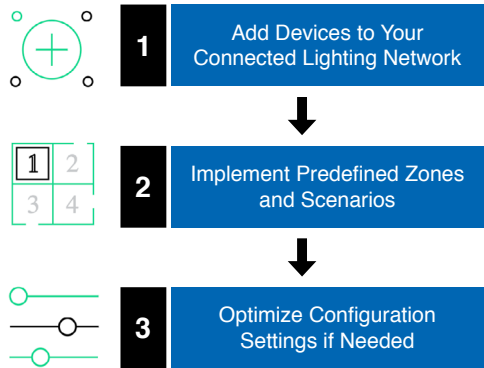
Remote preparation of a retrofit project with the use of our web app. Uploading floor plans, defining individual lighting zones and choosing lighting control scenarios.



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



EnOcean BLE Single-Rocker Switch
Model: ESRPB



EnOcean BLE Double-Rocker Switch
Model: EDRPB



aleoBlue Gateway
Model: SGW-101

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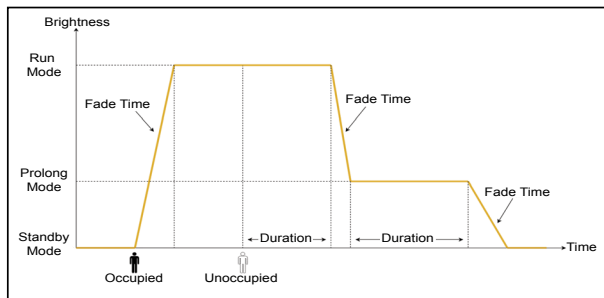
Lighting Control Scenarios

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.

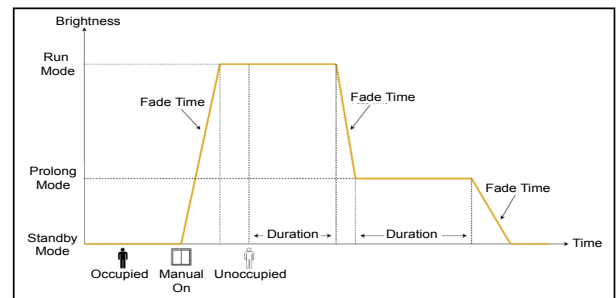


Mode / Scenario	Wireless Switch	Occupancy Sensor	Ambient Light Sensor
Unprovisioned Mode	-	-	-
Switch	On / Off / Scenes	-	-
Occupancy	On / Off / Scenes	Auto On / Off	-
Vacancy	On / Off / Scenes	Auto Off	-
Occupancy with Daylight Harvesting	On / Off / Scenes	Auto On / Off	Enabled
Vacancy with Daylight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

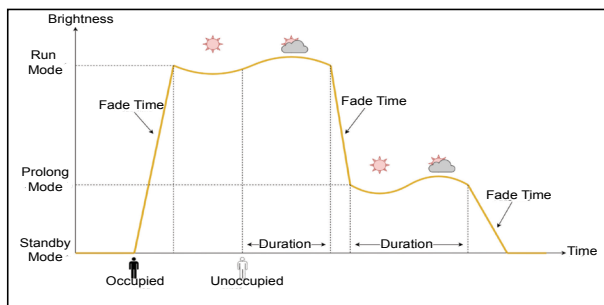
Occupancy Scenario



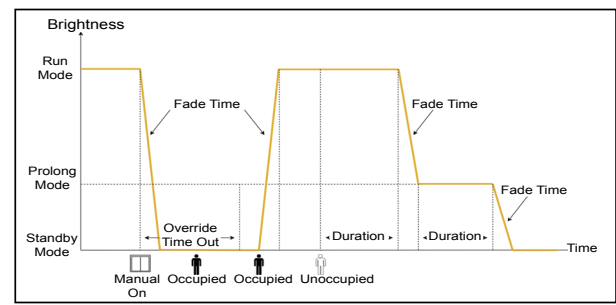
Vacancy Scenario



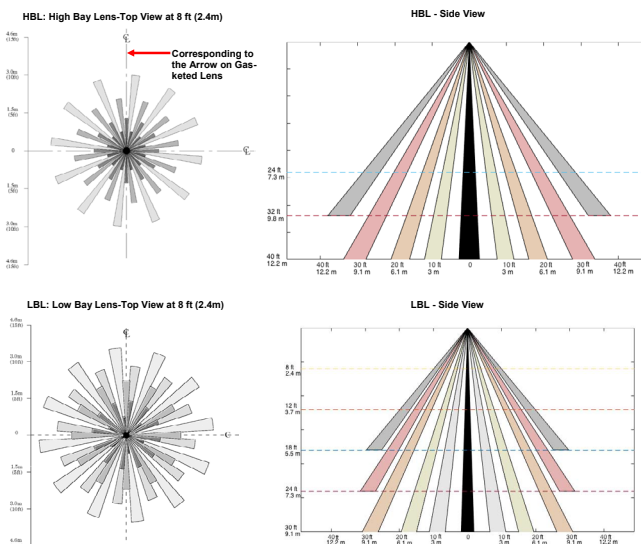
Occupancy Scenario - with Daylight Harvesting



Occupancy Scenario with Manual Override



Occupancy Detection Pattern



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