

Project		Catalog #		Type	
Prepared by		Notes		Date	



# Lumark

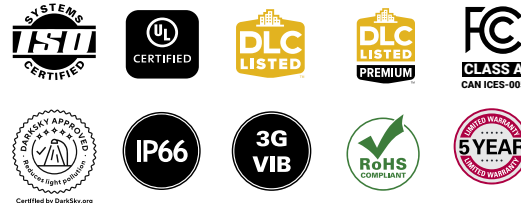
## Axcent

### Wall Mount Luminaire

#### Product Features



#### Product Certifications



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- Mounting Details [page 3](#)
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#### Quick Facts

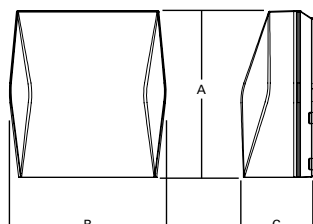
- Available in 14W - 116W (1,800 - 16,000 lumens) models
- Full cutoff and refractive lens models available
- Energy and maintenance savings up to 95% compared to HID
- Energy efficient illumination results in up to 144 LPW
- Replaces 70W up to 450W HID equivalents

#### Connected Systems

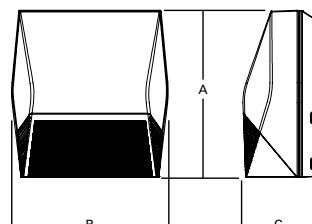
- WaveLinx PRO Wireless
- WaveLinx LITE Wireless
- Enlighted

#### Dimensional Details

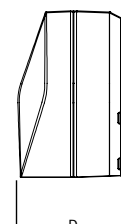
Full Cutoff



Refractive Lens



Deep Back Housing



Dimensional Data

	AXCS Small	AXCL Large
A	8" [202mm]	11-1/2" [292mm]
B	7-1/2" [190mm]	10-3/4" [273mm]
C	3-5/8" [94mm]	4-7/8" [124mm]
D	6-1/8" [155mm]	7-1/8" [181mm]

Ordering Information

SAMPLE NUMBER: AXCS1A-AP-347V

Domestic Preferences <sup>27</sup>	Model Series <sup>1</sup>	LED Color Temperature	Color	Options (Add as Suffix)
<p>[Blank]=Standard                      BAA=Buy American Act                      TAA=Trade Agreements Act</p>	<p><b>Full Cutoff</b>                      AXCS1A=14W                      AXCS2A=21W                      AXCS3A=27W                      AXCS4A=44W                      AXCS5A=52W                      AXCL6A=50W                      AXCL8A=66W                      AXCL10A=89W                      AXCL12A=116W</p> <p><b>Refractive Lens</b>                      AXCS1ARL=14W                      AXCS2ARL=21W                      AXCS3ARL=27W                      AXCS4ARL=44W                      AXCS5ARL=52W                      AXCL6ARL=50W                      AXCL8ARL=66W                      AXCL10ARL=89W                      AXCL12ARL=116W</p>	<p>[Blank]=4000K, Neutral                      C=5000K, Cool                      W=3000K, Warm</p>	<p>[Blank]=Carbon Bronze (Standard)                      WT=Summit White                      BK=Black                      AP=Grey                      GM=Graphite Metallic                      DP=Dark Platinum</p>	<p>347V=347V<sup>2</sup>                      480V=480V<sup>2</sup>                      PC1=Photocontrol 120V<sup>3,4,5</sup>                      PC2=Photocontrol 208-277V, 347V, 480V<sup>4,5,6</sup>                      PC=Photocontrol 120-277V, 347V, 480V<sup>4,7,8</sup>                      KKIT=Knuckle Floodlight Mount<sup>7</sup>                      TRNKIT=Trunnion Floodlight Mount                      SFKIT=Slipfitter Floodlight Mount                      PMAKIT=Pole Mount Arm                      WPS2XX=Wavelinx Pro, SR Driver, Dimming Motion and Daylight, WAC Programmable, 7' - 15' Mounting Height<sup>4,9,10,11</sup>                      WPS4XX=Wavelinx Pro, SR Driver, Dimming Motion and Daylight, WAC Programmable, 15' - 40' Mounting Height<sup>4,9,10,11</sup>                      WLS2XX=WaveLinx Lite, SR Driver, Dimming Motion and Daylight, Bluetooth Programmable, 7' - 15' Mounting<sup>4,9,10,11</sup>                      WLS4XX=WaveLinx Lite, SR Driver, Dimming Motion and Daylight, Bluetooth Programmable, 15' - 40' Mounting<sup>4,9,10,11</sup>                      LWR-LW=Enlighted Wireless Sensor, Wide Lens for 8' - 16' Mounting Height<sup>4,9,12</sup>                      LWR-LN=Enlighted Wireless Sensor, Narrow Lens for 16' - 40' Mounting Height<sup>4,9,12</sup>                      MSP/DIM-L12=Integrated Sensor for Dimming Operation, 8' - 12' Mounting Height<sup>4,9,13</sup>                      MSP/DIM-L30=Integrated Sensor for Dimming Operation, 12' - 30' Mounting Height<sup>4,9,13</sup>                      MSP-L12=Integrated Sensor for ON/OFF Operation, 8' - 12' Mounting Height<sup>4,9,13</sup>                      MSP-L30=Integrated Sensor for ON/OFF Operation, 12' - 30' Mounting Height<sup>4,9,13</sup>                      CBP=Cold Weather Battery Pack<sup>3,14,15,16,17,18</sup>                      CBP-CEC=Cold Weather Battery Pack, CEC compliant<sup>3,14,15,16,17,18</sup>                      10K=10kV/10kA Surge Protection                      HA=50°C High Ambient<sup>15,19</sup>                      GRF=Glare Reducing Lens<sup>20</sup>                      AHD145=After Hours Dim, 5 Hours<sup>5,21</sup>                      AHD245=After Hours Dim, 6 Hours<sup>5,21</sup>                      AHD255=After Hours Dim, 7 Hours<sup>5,21</sup>                      AHD355=After Hours Dim, 8 Hours<sup>5,21</sup></p>

Accessories (Order Separately)<sup>22,28</sup>

VS/AXCS-XX=Vandal Shield Axcent Small<sup>7,23</sup>  
 VS/AXCS-MS=Vandal Shield Axcent Small (With Motion Sensor)<sup>7,23</sup>  
 WG/AXCS=Wire Guard Axcent Small<sup>7</sup>  
 WG/AXCS-MS=Wire Guard Axcent Small (With Motion Sensor)<sup>7</sup>  
 VS/AXCL-XX=Vandal Shield Axcent Large<sup>5,23</sup>  
 VS/AXCL-MS=Vandal Shield Axcent (With Motion Sensor)<sup>5,23</sup>  
 WG/AXCL=Wire Guard Axcent Large<sup>5</sup>  
 WG/AXCL-MS=Wire Guard Axcent (With Motion Sensor)<sup>5</sup>  
 BB/AXC=Axcent Lumen Select Back Box, Carbon Bronze<sup>24</sup>  
 BB/AXC-PC=Axcent Lumen Select Back Box with PC, Carbon Bronze<sup>24,25</sup>  
 BB/AXC-WT=Axcent Lumen Select Back Box, Summit White<sup>24</sup>  
 BB/AXC-WT-PC=Axcent Lumen Select Back Box with PC, Summit White<sup>24,25</sup>

KKIT/AXCS-XX=Knuckle and Visor Floodlight Kit (For Axcent Small)<sup>7</sup>  
 SFKIT/AXCS-XX=Slipfitter Floodlight Kit (For Axcent Small)<sup>7</sup>  
 TRNKIT/AXCS-XX=Trunnion and Visor Floodlight Kit (For Axcent Small)<sup>7</sup>  
 TRNKIT-XX=Trunnion Floodlight Kit (For Axcent Large)<sup>5</sup>  
 SFKIT-XX=Slipfitter Floodlight Kit (For Axcent Large)<sup>5</sup>  
 PMAKIT-XX=Pole Mount Kit  
 ISHH-01=Integrated Sensor Programming Remote<sup>26</sup>  
 MA1010-XX=Single Tenon Adapter for 3-1/2" O.D. Tenon  
 MA1011-XX=2@180° Tenon Adapter for 3-1/2" O.D. Tenon  
 MA1017-XX=Single Tenon Adapter for 2-3/8" O.D. Tenon  
 MA1018-XX=2@180° Tenon Adapter for 2-3/8" O.D. Tenon

- NOTES:**
- DesignLights Consortium® Qualified. Refer to [www.designlights.org](http://www.designlights.org) Qualified Products List under Family Models for details.
  - Transformer used only when ordered with motion sensor or AXCS1 through AXCS5 or AXCL6 fixture wattages.
  - Not available in 347 or 480 VAC.
  - Button photocontrol and any motion sensor (MSP or LWR) not offered together.
  - Only available on AXCL6-AXCL12 models.
  - Used with 277, 347, and 480 VAC options.
  - Only available on AXCS1-AXCS5 models.
  - This configuration may contain materials that are not RoHS compliant. Contact your lighting representative for more information.
  - Uses deep back housing.
  - Sensor passive infrared (PIR) may be overly sensitive when operating below -20°C (-4°F). For the device to be field-configurable, requires WAC Gateway components WAC-PoE and WPOE-120 in appropriate quantities. Only compatible with WaveLinx system and software and requires system components to be installed for operation. See website for more Wavelinx application information.
  - Replace XX with sensor color (WH, BZ, or BK).
  - Enlighted wireless sensors are factory installed and require network components LWP-EM-1, LWP-GW-1, and LWP-PoE8 in appropriate quantities. See website for application information.
  - The ISHH-01 accessory is required to adjust parameters.
  - Ambient operating temperature -20°C to 25°C for AXCL6 through AXCL10. Ambient operating temperature -20°C to 30°C on AXCS4 models. Ambient operating temperature -20°C to 40°C on AXCS1 through AXCS3 models.
  - Not available with AXCS5 or AXCL12 models.
  - Uses deep back housing for AXCS1, AXCL2, AXCS3, and AXCS4 models.
  - Not to be mounted in upwards / inverted orientation. Downlight wall mount only for AXCS1 through AXCS4.
  - CBP cannot be used with PC and motion sensor (MSP or LWR). CBP can be used with PC or motion sensor (MSP or LWR).
  - Can not be ordered with CBP or PC options.
  - Use dedicated IES files on product website for lumen values and distributions.
  - Requires the use of PC1 or PC2 button photocontrol. See After Hours Dim supplemental guide for additional information.
  - Replace XX with color designation.
  - For use with full cutoff lens configurations only.
  - Lumen Select functionality not available in conjunction with any motion sensor option (MSP or LWR). Photocontrol back box not available with any photocontrol or motion sensor options (PC, MSP or LWR).
  - Photocell only operates at 120-277V input voltages. Not for use with 347 or 480V systems.
  - This tool enables adjustment to parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative for more information.
  - Only product configurations with these designated prefixes are built to be compliant with the Buy American Act of 1933 (BAA) or Trade Agreements Act of 1979 (TAA), respectively. Please refer to [DOMESTIC\\_PREFERENCES](http://DOMESTIC_PREFERENCES) website for more information. Components shipped separately may be separately analyzed under domestic preference requirements.
  - Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information.

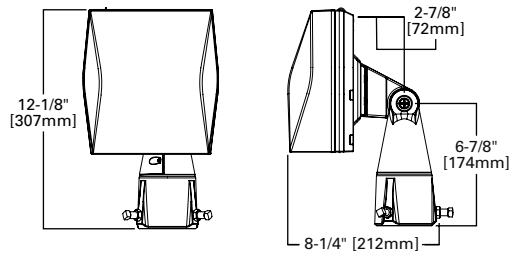
Stock Ordering Information

Model Series <sup>1</sup>			
Full Cutoff		Refractive Lens	
AXCS1A=14W	AXCL10A=102W	AXCS1ARL=14W	AXCL10ARL=89W
AXCS2A=21W	AXCL12A=123W	AXCS2ARL=21W	AXCL12ARL=116W
AXCS3A=27W	AXCL6A-347V=50W	AXCS3ARL=27W	AXCL6ARL-347V=50W
AXCS4A=44W	AXCL8A-347V=66W	AXCS4ARL=44W	AXCL8ARL-347V=66W
AXCS5A=52W	AXCL10A-347V=89W	AXCS5ARL=52W	AXCL10ARL-347V=89W
AXCL6A=56W	AXCL12A-347V=116W	AXCL6ARL=50W	AXCL12ARL-347V=116W
AXCL8A=72W		AXCL8ARL=66W	

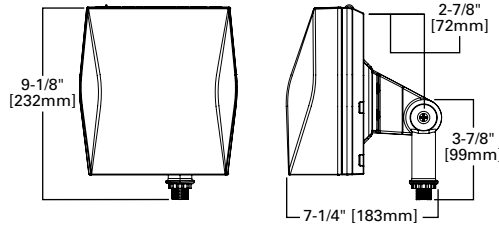
Note: All stock configurations are 4000K color temperatures, standard Carbon Bronze finish, and wall mount configuration.

## Mounting Details

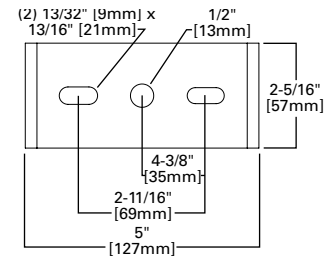
**Slipfitter Mount (Small)**  
Tenon OD: 2-3/8" | EPA: 0.60



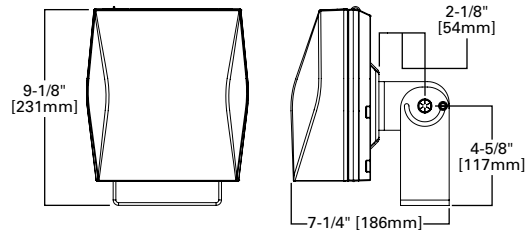
**Knuckle Mount (Small)**



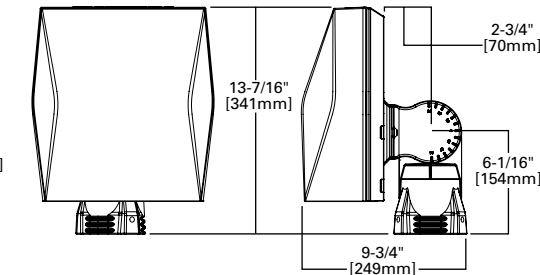
**Trunnion Mount Detail**



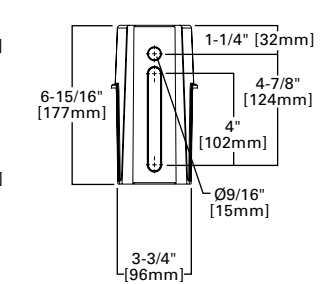
**Trunnion Mount (Small)**



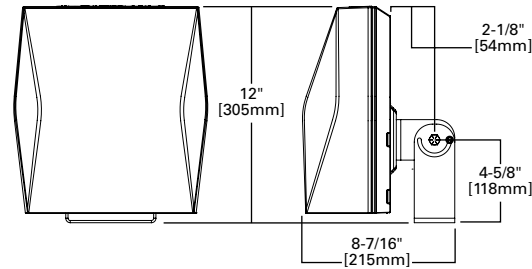
**Slipfitter Mount (Large)**  
Tenon OD: 2-3/8" to 2-7/8" | EPA: 1.10



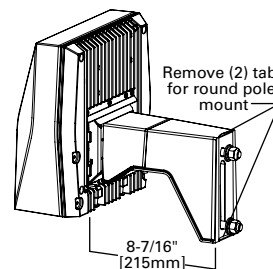
**Pole Mount Arm Drill Pattern**



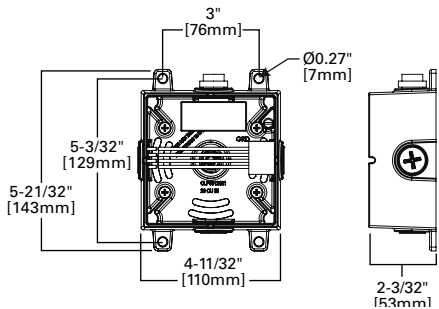
**Trunnion Mount (Large)**



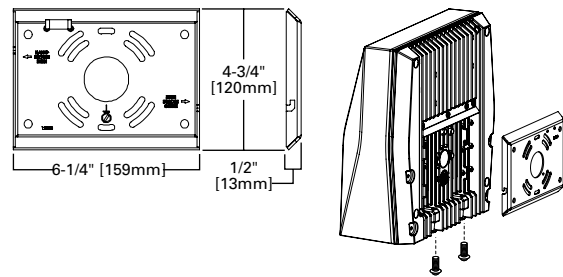
**Pole Mount Arm (Large)**  
EPA: 1.10



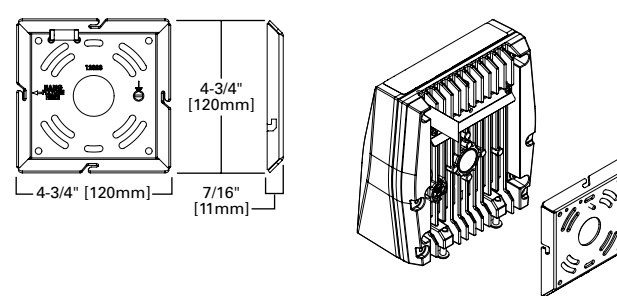
**Lumen Select Back Box**



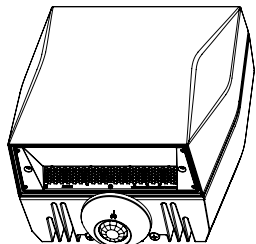
**Wall Mount Plate Detail (Large)**



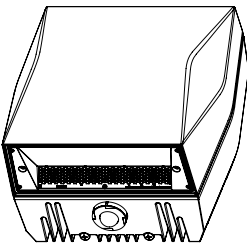
**Wall Mount Plate Detail (Small)**



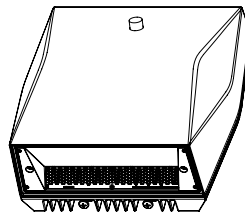
**Enlighted Sensor**



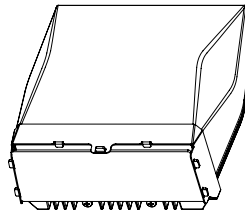
**Occupancy Sensor**



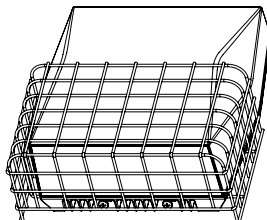
**Button Photocontrol**



**Vandal Shield**



**Wire Guard**



## Product Specifications

### Construction

- Die-cast aluminum housing
- External back fin design extracts heat from the surface to thermally optimize design for longer luminaire life

### Optics

- Dark Sky Approved (Fixed mount, Full cutoff, and 3000K CCT only)
- Silicone-sealed optical LED chamber
- Acrylic refractive or full cutoff lens options for Type IV distributions

### Electrical

- Standard universal voltage (120-277V, 50/60Hz)
- Driver incorporates 6kV surge protection
- -40°C minimum operating temperature
- 40°C maximum operating temperature
- <20% total harmonic distortion

- 0-10V dimming driver is standard with leads external to the fixture

### Mounting

- Steel wedge mounting plate fits directly to 4" standard j-box or directly to wall with the "Hook-N-Lock" mechanism
- Stainless steel set screws
- Lumen Select Back Box accessory offers four 1/2" NPT conduit entry wire ways. Resistor Pack combinations allow field-dimming of 75% or 50% when connected to luminaire dimming leads
- Not suitable for indoor use when installed in inverted/uplight orientation

### Emergency Egress

- Optional integral cold weather battery emergency egress includes emergency operation test switch, an AC-ON indicator light and a premium, maintenance-free battery pack

- The separate emergency lighting LEDs are wired to provide redundant emergency lighting. Listed to UL Standard 924, Emergency Lighting

### Finish

- Five-stage super TGIC polyester powder coat paint, 2.5 mil nominal thickness

### Shipping Data

- Small fixture=5 lbs. [2.36 kgs.]
- Small with sensor or CBP=10 lbs. [4.40 kgs.]
- Large fixture=12 lbs. [5.45 kgs.]
- Large with sensor or CBP=17 lbs. [7.73 kgs.]
- Large with sensor & CBP=21 lbs. [9.54 kgs.]

### Warranty

- Five year limited warranty, consult website for details. [www.cooperlighting.com/legal](http://www.cooperlighting.com/legal)

## Energy and Performance Data

### Power and Lumens (Axcent Small)

Light Engine		AXCS1A	AXCS2A	AXCS3A	AXCS4A	AXCS5A
Power (Watts)		14	21	27	44	52
Input Current @ 120V (A)		0.12	0.18	0.23	0.37	0.43
Input Current @ 240V (A)		0.06	0.09	0.11	0.18	0.22
Input Current @ 277V (A)		0.05	0.08	0.10	0.16	0.19
Input Current @ 347V (A)		0.04	0.06	0.08	0.13	0.15
Input Current @ 480V (A)		0.03	0.04	0.06	0.09	0.11
Configuration						
Full Cutoff	4000K/5000K Lumens	1,806	2,561	3,537	5,520	6,300
	3000K Lumens	1,526	2,164	2,989	4,665	5,324
	BUG Rating	B1-U0-G0	B1-U0-G0	B1-U0-G0	B2-U0-G1	B2-U0-G1
Refractive Lens	4000K/5000K Lumens	1,915	2,716	3,704	5,858	6,699
	3000K Lumens	1,618	2,295	3,130	4,950	5,661
	BUG Rating	B1-U3-G2	B1-U3-G2	B1-U3-G2	B1-U4-G3	B1-U4-G3

### Power and Lumens (Axcent Large)

Light Engine		AXCL6A	AXCL8A	AXCL10A	AXCL12A
Power (Watts)		50	66	89	115
Input Current @ 120V (A)		0.41	0.54	0.74	0.96
Input Current @ 240V (A)		0.21	0.27	0.37	0.48
Input Current @ 277V (A)		0.18	0.24	0.32	0.42
Input Current @ 347V (A)		0.14	0.19	0.26	0.33
Input Current @ 480V (A)		0.10	0.14	0.19	0.24
Configuration					
Full Cutoff	4000K Lumens	7,594	9,716	12,719	16,302
	5000K Rating	7,501	9,598	12,564	16,103
	3000K Lumens	6,502	8,319	10,890	13,958
	BUG Rating	B2-U0-G1	B2-U0-G2	B3-U0-G2	B3-U0-G2
Refractive Lens	4000K Lumens	7,809	10,331	13,665	16,637
	5000K Rating	7,714	10,205	13,498	16,434
	3000K Lumens	6,686	8,845	11,700	14,244
	BUG Rating	B1-U4-G4	B2-U5-G5	B2-U5-G5	B2-U5-G5

Energy and Performance Data

Power and Lumens (Small + CBP)

Light Engine		AXCS1A	AXCS2A	AXCS3A	AXCS4A
Power (Watts)		18	25	31	48
Input Current @ 120V (A)		0.15	0.21	0.26	0.40
Input Current @ 240V (A)		0.08	0.11	0.13	0.20
Input Current @ 277V (A)		0.07	0.09	0.11	0.18
Configuration					
Full Cutoff	4000K/5000K Lumens	629	587	647	570
	3000K Lumens	531	496	547	482
Refractive Lens	4000K/5000K Lumens	667	623	686	605
	3000K Lumens	563	526	580	511

Note: Power and current based on full power consumption while CBP is charging. Lumen outputs are while operating in emergency mode only.

Power and Lumens (Large + CBP)

Light Engine		AXCL6A	AXCL8A	AXCL10A
Power (Watts)		54	70	93
Input Current @ 120V (A)		0.45	0.58	0.77
Input Current @ 240V (A)		0.22	0.29	0.38
Input Current @ 277V (A)		0.19	0.25	0.33
Configuration				
Full Cutoff	4000K/5000K Lumens	=141*10W=1410		
	3000K Lumens	122*10=1220		
Refractive Lens	4000K/5000K Lumens	151*10=1510		
	3000K Lumens	131*10=1310		

Note: Power and current based on full power consumption while CBP is charging. Lumen outputs are while operating in emergency mode only.

Power and Lumens Multipliers  
(Lumen Select Back Box + Axcent Small)

Configuration		~75% Nominal Output	~50% Nominal Output
Catalog Number	Material Number	Connect per Installation Instructions	
AXCS1A*	13109741 or 13109939 or Other	74%	50%
AXCS2A*	13109698 or 13109938 or Other	74%	50%
AXCS3A*	13109697 or 13109937 or Other	74%	50%
AXCS4A*	13109695 or 13109936	75%	40%
AXCS4A*	13495299 or 13495470 or Other	72%	50%
AXCS5A*	13109652 or 13109935	75%	40%
AXCS5A*	13495471 or 13495472 or Other	72%	50%

Power and Lumens Multipliers  
(Lumen Select Back Box + Axcent Large)

Configuration		~75% Nominal Output	~50% Nominal Output
Catalog Number	Material Number	Connect per Installation Instructions	
AXCL6A*	13645910 or 13645979	69%	47%
AXCL8A*	13645970 or 13645984	69%	47%
AXCL10A*	13645971 or 13645989	69%	47%
AXCL12A*	13645972 & 13645993	72%	49%

Lumen Maintenance (Axcent Small)

Ambient Temperature	TM-21 Lumen Maintenance (72,000 Hours)	Theoretical L70 (Hours)
<b>Up to 3A</b>		
25°C	90%	246,000
40°C	90%	225,000
50°C	89%	195,000
<b>Up to 5A</b>		
25°C	89%	240,000
40°C	88%	223,000
50°C	87%	186,000

Lumen Maintenance (Axcent Large)

Ambient Temperature	TM-21 Lumen Maintenance (72,000 Hours)	Theoretical L70 (Hours)
<b>Up to 8A</b>		
25°C	89%	216,000
40°C	87%	192,000
50°C	86%	179,000
<b>Up to 10A</b>		
25°C	88%	199,000
40°C	86%	179,000
50°C	85%	162,000
<b>Up to 12A</b>		
25°C	85%	162,000
40°C	82%	138,000

Lumen Multiplier

Ambient Temperature	Lumen Multiplier
10°C	1.02
15°C	1.01
25°C	1.00
40°C	0.97

### Control Options

**0-10V** This fixture is offered standard with 0-10V dimming driver(s) for use with a lighting control panel or other control method.

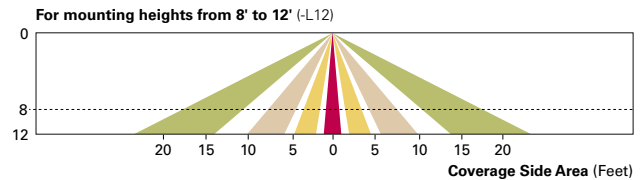
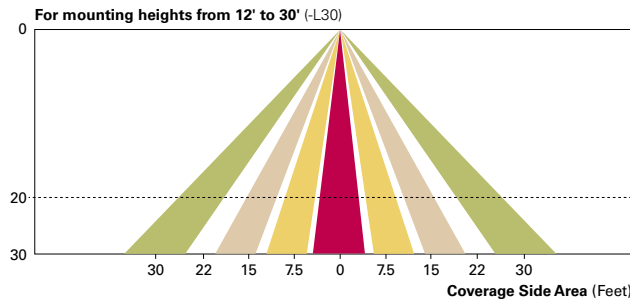
**Photocontrol** (PC1, PC2 and PC) Optional button-type photocontrol provides a flexible solution to enable "dusk-to-dawn" lighting by sensing light levels.

**After Hours Dim** (AHD) This feature allows photocontrol-enabled luminaires to achieve additional energy savings by dimming during scheduled portions of the night. The dimming profile will automatically take effect after a "dusk-to-dawn" period has been calculated from the photocontrol input. Specify the desired dimming profile for a simple, factory-shipped dimming solution requiring no external control wiring. Reference the After Hours Dim supplemental guide for additional information.

**Dimming Occupancy Sensor** (MSP/DIM-LXX and MSP-LXX) These sensors are factory installed in the luminaire housing. When the MSP/DIM-LXX sensor option is selected, the occupancy sensor is connected to a dimming driver and the entire luminaire dims when there is no activity detected. When activity is detected, the luminaire returns to full light output. The MSP/DIM sensor is factory preset to dim down to approximately 50 percent power with a time delay of ten minutes. The MSP-LXX sensor is factory preset to turn the luminaire off after five minutes of no activity.

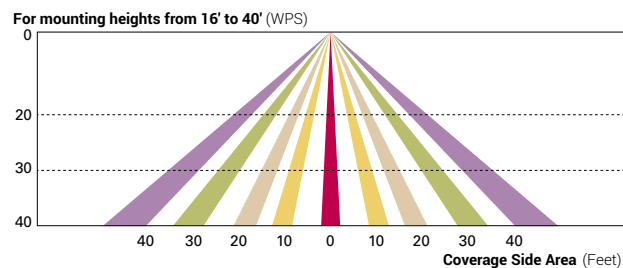
These occupancy sensors includes an integrated photocell that can be activated with the ISHH-01 accessory for "dusk-to-dawn" control or daylight harvesting - the factory preset is ON. The ISHH-01 is a wireless tool utilized for changing the dimming level, time delay, sensitivity and other parameters.

A variety of sensor lens are available to optimize the coverage pattern for mounting heights from 8'-30'.



**WaveLinX Wireless Control and Monitoring System** The WaveLinX Outdoor control platform operates on a wireless mesh network based on IEEE 802.15.4 standards enabling wireless control of outdoor lighting. Use the WaveLinX Mobile application for set-up and configuration. At least one Wireless Area Controller (WAC) is required for full functionality and remote communication (including adjustment of any factory pre-sets).

**WaveLinX Wireless Sensor** (WPS2 and WPS4) These outdoor sensors offer passive infrared (PIR) occupancy and a photocell for closed loop daylight sensing. These sensors are factory preset to dim down to approximately 50 percent power after 15 minutes of no activity detected. These occupancy sensors include an integral photocell for "dusk-to-dawn" control or daylight harvesting that is factory-enabled. A variety of sensor lenses are available to optimize the coverage pattern for mounting heights from 7'-40'.



**Enlighted Wireless Control and Monitoring System** (LWR-LW and LWR-LN) The Enlighted System is a connected lighting solution that combines LED luminaires with an integrated wireless sensor system. The sensor controls the lighting system in compliance with the latest energy codes and collects valuable data about building performance and use. Software applications turn the granular data into information through energy dashboards and specialized apps that make it simple and help optimize the use of other resources beyond lighting.

