

CATALOG #: \_\_\_\_\_

TYPE: \_\_\_\_\_

PROJECT: \_\_\_\_\_



## FEATURES

- Aluminum housing for maximum heat dissipation
- Quick-wire access plate for easy installation
- Narrow distribution and uplight options provide tailored performance
- Shallow fixture depth of less than 4" allows fixture placement near the ceiling for maximum space utilization and reduces damage incurred from material handling equipment
- Uplight modules available to illuminate dark ceilings
- High ambient option for extreme environments
- HE option delivers superior efficacies up to 188 lm/W
- Piano hinge and steel door frame options
- Optional wireguard provides added protection
- High-performance up to 157 lm/W
- Wireless in-fixture control solutions available
- Made Right Here® in the USA

## SPECIFICATIONS

- HOUSING** – Die-formed aluminum housing.
- FINISH** – 92% minimum average reflective white polyester powder coat bonded to phosphate-free, multi-stage pretreated metal. All parts painted after fabrication to facilitate installation, increase efficiency, and inhibit corrosion.
- ELECTRICAL** – High-quality mid-power LED boards. L80 > 72,000 hours per IES TM-21. L80 > 102,000 hours with HE option. 40°C maximum ambient operating temperature standard. 60°C max when specified with HA option. 25°C max when specified with alternate drivers. 50/60 Hz constant current driver.
- MOUNTING** – Suspended. Indoor applications only.
- LISTINGS** –
  - cSAsus certified as luminaire suitable for dry or damp locations.
  - Build America, Buy America (BABA) and Buy American Act (BAA) compliant. Request certification at [hew.com/buy-american](http://hew.com/buy-american)
- WARRANTY** – 5-year limited warranty, see [www.hew.com/warranty](http://www.hew.com/warranty)

## ORDERING EXAMPLE: GL - 4 - L200/840 - OPTIONS - CONTROL/DIM - UNV

SERIES	LENGTH	LUMENS <sup>[1]</sup>	CRI	CCT
GL	4' 4"	4'	8' 80	30 3000K
	8' 8"	L150 15,000lm	9' 90	35 3500K
		L200 20,000lm		40 4000K
		L300 30,000lm		50 5000K
		L400 40,000lm		
		L600 60,000lm		
		L800 80,000lm		
<b>OPTIONS <sup>[2]</sup></b>				
EM/10W/BMTD	Back-mounted 10-watt emergency battery <sup>[3]</sup>		WGC11	11-gauge wireguard, white powder coated, field-installed <sup>[15]</sup>
EM/14W/BMTD	Back-mounted 14-watt emergency battery <sup>[4]</sup>		WGC11 F&I	11-gauge wireguard, white powder coated, factory-installed <sup>[16]</sup>
(L__)	Additional lower lumen packages available <sup>[5]</sup> Example: 18,000 nominal lumens = GL-4-L200/840-(L180)		VBV	(2) Y-hangers
HE	High efficacy lumen package <sup>[6]</sup>		VBV-2	(2) Y-hangers with 2' chains
HA	High ambient temperature, 60°C <sup>[7]</sup>		GC2/Y18/5	(2) Cable suspension kits, 5' length
UP	Uplight module, back-mounted <sup>[8]</sup>		GC2/Y18/10	(2) Cable suspension kits, 10' length
ND	Narrow distribution <sup>[9]</sup>		HUB MT 3/4"	Cast iron hub and junction box for single 3/4" pendant mount <sup>[17]</sup>
PHSCHA118	Piano hinge steel door frame, clear, high-temperature, non-prismatic acrylic, .118" thick <sup>[10]</sup>		HUB/HOOK MT	Cast iron hub with mounting hook <sup>[18]</sup>
PHSAF118	Piano hinge steel door frame, non-prismatic diffuse acrylic, .118" thick <sup>[11]</sup>		HOOK/CABLE	Hook and cable mounting kit, 10'
SCHA118	Steel door frame, clear, high-temperature, non-prismatic acrylic, .118" thick <sup>[12]</sup>		3SB	(2) 3" spacer brackets
SAF118	Steel door frame, non-prismatic diffuse acrylic, .118" thick <sup>[13]</sup>		6CPI/L5-15P/TWLK	6' cord and NEMA twistlock 15 AMP plug, 120V <sup>[19]</sup>
SAF12125	Steel door frame, frosted acrylic #12, .125" thick <sup>[14]</sup>		6CPI/L7-15P/TWLK	6' cord and NEMA twistlock 15 AMP plug, 277V <sup>[20]</sup>
			S7238/B	72" cord, 3-conductor, No. 18 AWG, black <sup>[21]</sup>
			S7258/B	72" cord, 5-conductor, No. 18 AWG, black <sup>[22]</sup>
			SP1	10kV surge protection, 120 or 277V
			SP2	10kV surge protection, 208 or 240V
			SP3	10kV surge protection, 347 or 480V
<b>CONTROLS <sup>[23]</sup></b>				
See page 6 for ADDITIONAL CONTROL OPTIONS.				
–	None		DRIVER <sup>[24]</sup>	VOLTAGE
AVI-LVFA	Avi-on wireless fixture control <sup>[25]</sup>		DIM	Driver with external 0-10V dimming wires
AVI-LVFA-PIR-ELB	Avi-on wireless fixture control with PIR motion and daylight sensor, end mount <sup>[26]</sup>		DRV	Driver without external dimming wires
			DA	Driver with 12V auxiliary power, without external dimming wires <sup>[27]</sup>
				120 120V
				208 208V
				240 240V
				277 277V
				UNV 120-277V
				347 347V <sup>[28]</sup>
				480 480V with stepdown transformer <sup>[29]</sup>

## NOTES

- Lumen output based on 80 CRI/4000K CCT. Actual performance may vary +/-5%, see page 2 for FIXTURE PERFORMANCE DATA. Additional lumen package available, see Options.
- See page 4 for MOUNTING DETAILS.
- Increases fixture height. See page 3 for OPTIONS DETAILS.
- Increases fixture height. See page 3 for OPTIONS DETAILS.
- Specify in increments of 100 nominal lumens. Option must be specified with next higher lumen package.
- Not available with 90 CRI. See page 2 for FIXTURE PERFORMANCE DATA.
- L200 lumen package max for 4', L400 for 8'; not available with EM, ND, or door frame options.
- Nominal 1,300 lumens module output; 15W; increases fixture height. See page 3 for OPTIONS DETAILS.
- Not available with lens options or 4' L400 or 8' L800 lumen packages. See page 2 for FIXTURE PERFORMANCE DATA.
- Not available with HA option.
- Not available with 4' L400 or 8' L800 lumen packages.
- Not available with 4' L400 or 8' L800 lumen packages.
- Not available with 4' L400 or 8' L800 lumen packages.
- Not available with 4' L400 or 8' L800 lumen packages.
- Not available with 4' L400 or 8' L800 lumen packages.
- Not available with 4' L400 or 8' L800 lumen packages.
- Shipped separately.
- Not for use with door frame accessories.
- Shipped separately.
- Shipped separately.
- DRV only.
- DRV only.
- DRV only.
- DIM only.
- See page 4 for SENSOR PLACEMENT DETAILS. See page 5 for AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS.
- Consult factory for additional driver options.
- DA Driver only.
- DA Driver only.
- Avi-on Control only.
- Not available with EM batteries or DA driver.
- Not available with EM batteries or DA driver.



**FIXTURE PERFORMANCE DATA**

	LED PACKAGE	DELIVERED LUMENS	STANDARD		HE OPTION <sup>[1]</sup>		NARROW DISTRIBUTION (ND) OPTION		
			WATTAGE	EFFICACY (lm/W)	WATTAGE	EFFICACY (lm/W)	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
4'	L150	15049	96	157	80	188	14297	97	147
	L200	20095	133	151	110	183	19090	131	146
	L300	30139	200	151	164	184	28632	195	147
	L400	40185	267	151	219	183	—	—	—
8'	L300	30098	192	157	160	188	28593	194	147
	L400	40190	266	151	220	183	38181	262	146
	L600	60278	400	151	328	184	57264	390	147
	L800	80370	534	151	440	183	—	—	—

<sup>1</sup> Not available with 90 CRI.

<sup>2</sup> Photometrics in process for SAF12125 shielding. Consult factory.

- Photometrics tested in accordance with IESNA LM-79. Results based on no shielding, 80 CRI/4000K CCT, average wattage for 120V through 277V input, and 25°C ambient temperature. Actual performance may vary +/-5%.
- To calculate lumen output in emergency mode, multiply the battery wattage by the efficacy.
- Use multiplier tables to calculate additional options.

**MULTIPLIER TABLES**

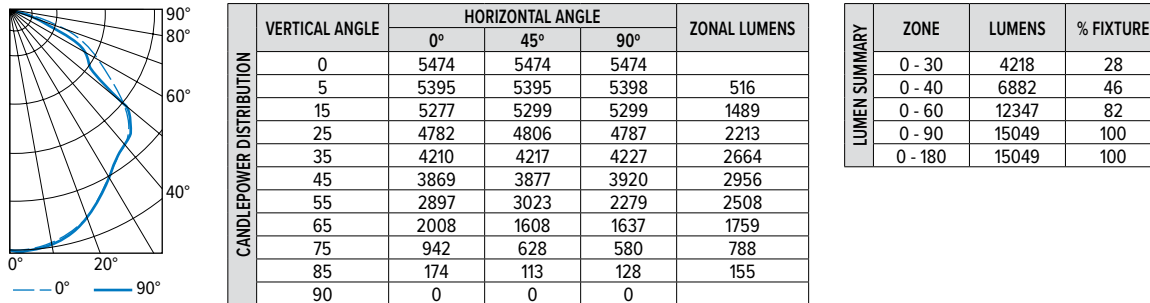
	COLOR TEMPERATURE	
	CCT	CONVERSION FACTOR
80 CRI	3000K	0.96
	3500K	0.97
	4000K	1.00
	5000K	1.03

90 CRI	3000K	0.79
	3500K	0.80
	4000K	0.83
	5000K	0.86

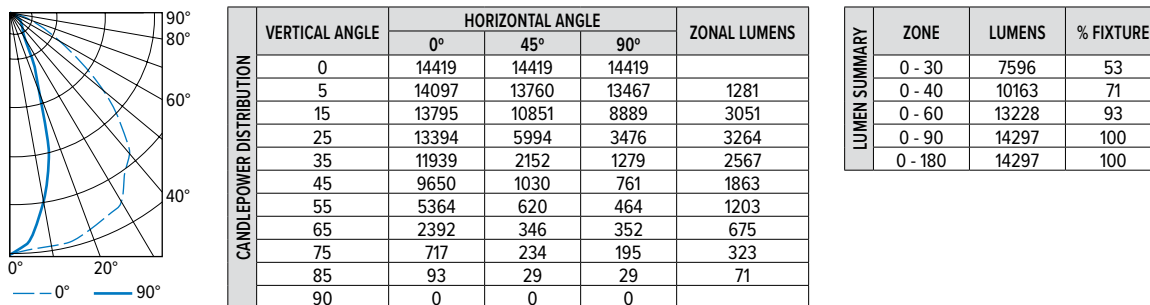
SHIELDING	
CATALOG NUMBER	CONVERSION FACTOR
—	1.00
SCHA118	0.93
SAF118	0.90
SAF12125 <sup>[2]</sup>	0.83

**PHOTOMETRY**

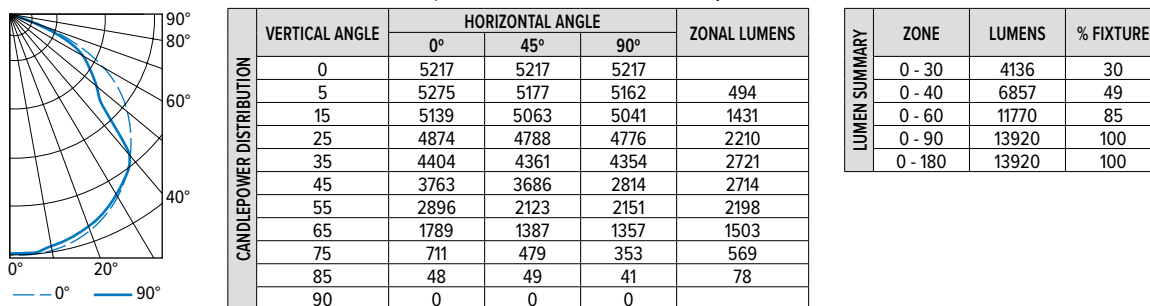
**GL-4-L150/840-DIM-UNV** Total Luminaire Output: 15049 lumens; 96 Watts | Efficacy: 157 lm/W | 80 CRI; 4000K CCT



**GL-4-L150/840-ND-DIM-UNV** Total Luminaire Output: 14297 lumens; 97 Watts | Efficacy: 147 lm/W | 80 CRI; 4000K CCT

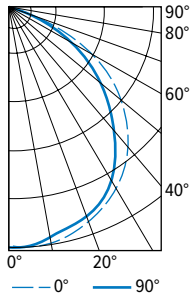


**GL-4-L150/840-SCHA118-DIM-UNV** Total Luminaire Output: 13920 lumens; 96 Watts | Efficacy: 145 lm/W | 80 CRI; 4000K CCT



PHOTOMETRY CONTINUED ON NEXT PAGE

GL-4-L150/840-SAF118-DIM-UNV Total Luminaire Output: 12910 lumens; 96 Watts | Efficacy: 134 lm/W | 80 CRI; 4000K CCT

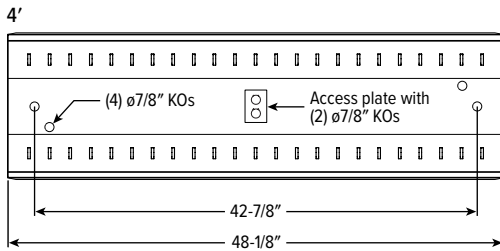


CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
		0°	45°	90°	
	0	4985	4985	4985	
	5	5061	4956	4922	473
	15	4937	4839	4796	1367
	25	4630	4553	4502	2096
	35	4155	4095	3899	2525
	45	3457	3294	2868	2487
	55	2535	2168	2005	2006
	65	1471	1221	1171	1278
	75	621	509	507	572
	85	75	69	74	107
	90	0	0	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	3935	31
	0 - 40	6460	50
	0 - 60	10953	85
	0 - 90	12910	100
	0 - 180	12910	100

## FIXTURE DETAILS

### BACKVIEW



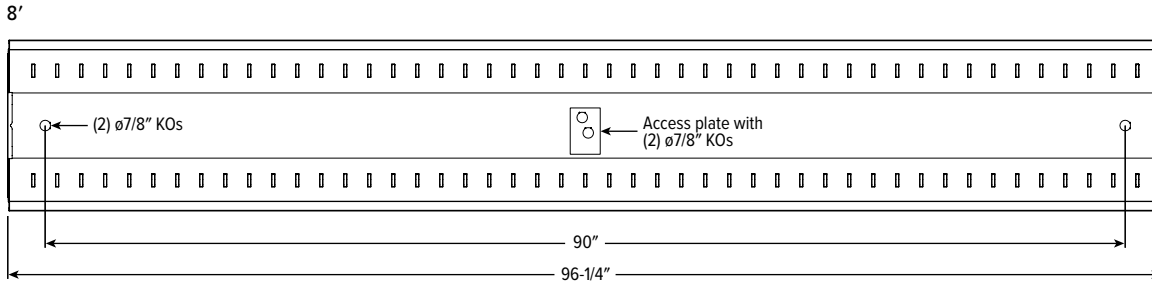
4' L150, L200 | 8' L300, L400



4' L300 | 8' L600

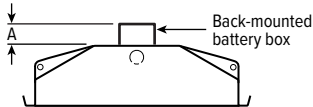


4' L400 | 8' L800



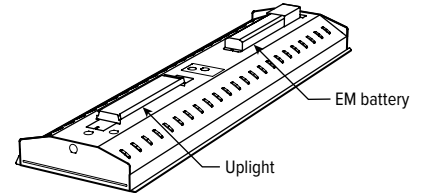
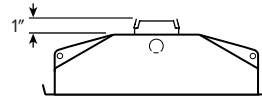
## OPTIONS DETAILS

### EM BATTERY



EM BATTERY	DIMENSION A
EM/14W/BMTD	1-5/16"
EM/10W/BMTD	1-3/16"

### UPLIGHT

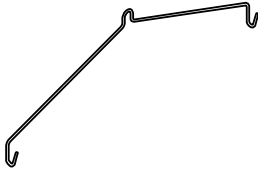


## MOUNTING DETAILS

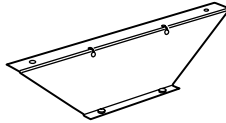
GC2/Y18/\_



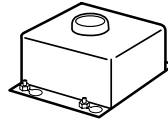
VBY | VBY-2



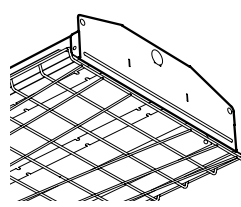
3SB SPACER BRACKET



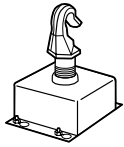
HUB MT 3/4" NPT



WGC11



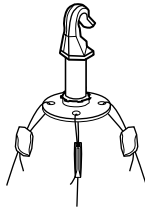
HUB/HOOK MT



Mounting hook with safety screw allows easy replacement of existing HID fixtures. Hook attaches to the fixture with 3/4" NPT cast iron hub and junction box.

A 10' long aircraft cable and Y style hanger with toggle clips are factory furnished for leveling fixture from single support.

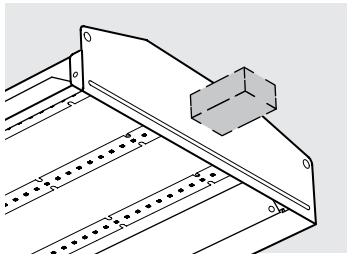
HOOK/CABLE



Hook and 10' cable mounting kit. Mounting hook is secured to the structure by eye bolt or loop (furnished by others).

Attached at the base of the hook is a circular mounting plate with four (4) 10' adjustable cables, oriented in 90° intervals, suspended below.

## SENSOR PLACEMENT DETAILS



SEE NEXT PAGE FOR CONTROL DETAILS.



## AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS

### FEATURES

#### Simple

- Gateway-free distributed control
- Contractor friendly installation
- Occupancy/vacancy/daylight sensing

#### Scalable

- Virtually unlimited network size
- Spans small areas to large garages
- Flexible control strategies

#### Secure

- Optional cloud connectivity
- UL IoT platinum security rating
- DLC 5.0 compliant

### COMMISSIONING & INSTALLATION TOOLS

Avi-on mobile apps provide intuitive, quick installation and commissioning. Pro tools are available to qualified installers. Live commissioning training and on-site or remote support by Avi-on must be ordered separately through Avi-on.



Commissioning  
Mobile App



Zone Scanner  
Web App



Commissioning  
Pro App

### SYSTEM COMPONENTS



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### ACCESSORIES

WALL STATIONS	
AVI-B-2401AC-1	Scene controller - buttons numbered 1-4 and up/down/off, 120-277VAC
AVI-B-2402BAT-1	Scene controller - buttons numbered 1-4 and up/down/off, battery powered
AVI-B-2401AC-2	Dimmer with presets - buttons with percentages and up/down/off, 120-277VAC
AVI-B-2402BAT-2	Dimmer with presets - buttons with percentages and up/down/off, battery powered
AVI-B-2401AC-3	Two button control on/off or hold to dim up/down, 120-277VAC
AVI-B-2402BAT-3	Two button control on/off or hold to dim up/down, battery powered

NETWORK	
AVI-RAB-LTE	Remote access bridge
AVI-NTM	Network time manager with battery backup
CEILING MOUNT SENSORS	
AVI-KIT-SEN-DUCM	PIR motion and ultrasonic sensor kit
AVI-KIT-SEN-ICM	PIR motion and photocell sensor kit

For load controllers and additional accessory info, see [hew.com/avi-on](http://hew.com/avi-on)

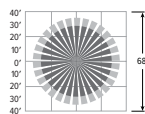
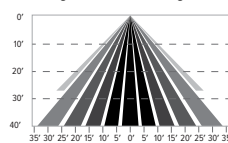
**AVI-LVFA-PIR-ELB** Avi-on wireless fixture control with PIR motion and daylight sensor, end mount. DA Driver only.

SPECIFICATIONS	
TYPE	PIR Motion + Daylight
MOUNTING HEIGHT	8' - 45'
LENS	Single lens detects high and low bay motion.
DETECTION ANGLE	360°
TEMPERATURE RANGE	-30° to 70°C
RELATIVE HUMIDITY	90 to 95% at 30°C
COMMISSIONING	App (iOS or Android)
SYSTEM REQUIREMENTS	Avi-On wireless fixture controls plus desktop and mobile apps
MANUFACTURER	Avi-On

### SENSOR COVERAGE PATTERNS

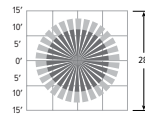
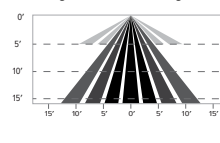
#### Large motion

40' height: ø68' coverage



#### Small motion

15' height: ø28' coverage



### SENSOR DETAIL



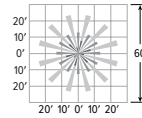
## ADDITIONAL CONTROL OPTIONS

**OCCWS-FSP-321B-L\_-120-480** Wattstopper PIR motion and daylight sensor using 0-10V internal control, 120V-480V. Must specify lens: L2, L3 or L7. Factory installed.  
**OCCWS-FSP-221B-L\_-120-480** Wattstopper PIR motion and daylight sensor using 0-10V internal control, 120V-480V. Must specify lens: L2, L3 or L7. Factory installed.  
**FSIR-100** Remote controller for 221B sensor. Please specify quantity required per project. Ordered and shipped separately.

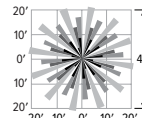
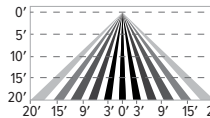
SPECIFICATIONS	
TYPE	PIR Motion + Daylight
MOUNTING HEIGHT	8' – 40'
DETECTION ANGLE	360°
TEMPERATURE RANGE	-40° to 75°C
COMMISSIONING	321B Sensor: App (iOS or Android) 221B Sensor: FSIR-100 Remote

### SENSOR COVERAGE PATTERNS

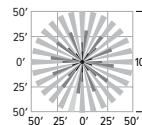
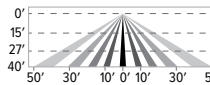
**L2 8' height: ø48' coverage**



**L3 20' height: ø40' coverage**



**L7 40' height: ø100' coverage**



### SENSOR DETAIL

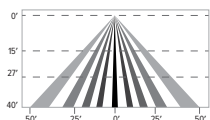


**OCCWS-HBP-111-L7-120/277/347** Wattstopper PIR motion and daylight hold off sensor, 120/277/347V. Adjustable via remote. Optional FSIR-100 remote controller available.  
**FSIR-100** Remote controller for HBP-111 sensor. Please specify quantity required per project. Ordered and shipped separately.

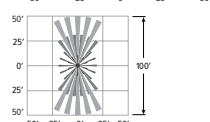
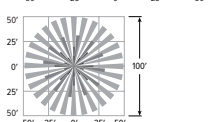
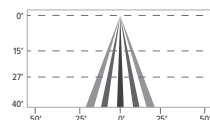
SPECIFICATIONS	
TYPE	PIR Motion + Daylight Hold Off
MOUNTING HEIGHT	15' – 40'
DETECTION ANGLE	360°
TEMPERATURE RANGE	0° to 70°C
RELATIVE HUMIDITY	5 to 95%, non-condensing
COMMISSIONING	FSIR-100 Remote

### SENSOR COVERAGE PATTERNS

**40' height: ø100' coverage**



**With mask: 40' height: ø50' coverage**



### SENSOR DETAIL

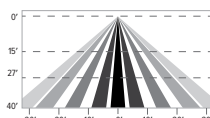


**OCCLV-OSFHU-ITW-120-347** Leviton PIR motion sensor, 120-347V  
**OCCLV-OSFHU-I4W-208/240/480V** Leviton PIR motion sensor, 208/240/480V

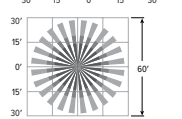
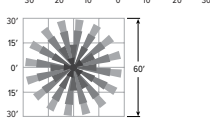
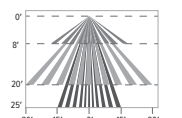
SPECIFICATIONS	
TYPE	PIR Motion
MOUNTING HEIGHT	8' – 40'
LENS	Interchangeable high bay, low bay or aisle mask
DETECTION ANGLE	360°
TEMPERATURE RANGE	-10° to 71°C
RELATIVE HUMIDITY	20% to 90% non-condensing

### SENSOR COVERAGE PATTERNS

**High bay  
40' height: ø60' coverage**



**Low bay  
25' height: ø60' coverage**



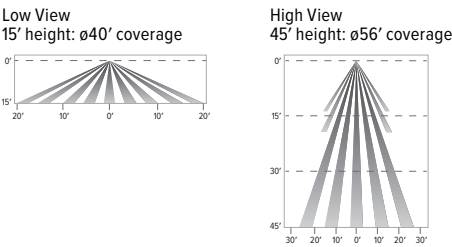
### SENSOR DETAIL



OCCSS LSXR-6-120-277 Sensor Switch PIR motion sensor, 120-277V  
OCCSS LSXR-6-347/480 Sensor Switch PIR motion sensor, 347/480V

SPECIFICATIONS	
TYPE	PIR Motion
MOUNTING HEIGHT	15' – 45'
DETECTION ANGLE	360°
TEMPERATURE RANGE	-10° to 60°C
RELATIVE HUMIDITY	Up to 90% non-condensing

SENSOR COVERAGE PATTERNS



SENSOR DETAIL

