

CATALOG #: _____

Type: _____

PROJECT: _____



FEATURES

- Ultra-low 2-9/16" fixture depth
- Optimized for single-person installation
- Up to 55°C ambient rating
- Multiple shielding and distribution options
- High-performance up to 155 lm/W
- Micro-prismatic lens reduces glare
- Energy-saving alternative designed to replace traditional HID or fluorescent high bays
- Non-EM fixtures are shipped in 2-packs to reduce job-site waste
- Wireless in-fixture control solutions available
- Available on QuickShip
- Made Right Here® in the USA

SPECIFICATIONS

- **HOUSING** – Die-formed aluminum housing.
- **SHIELDING** – Clear or micro-prismatic acrylic lens.
- **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 at 72,000 hours. 45°C maximum ambient operating temperature standard. 55°C maximum ambient operating temperature when specified with HA option, lumen restrictions apply, consult fixture performance data. -40°C minimum operating temperature.
- **MOUNTING** – Suspended. Surface mount kit available. Indoor applications only. Fixture weight is 6.5lbs for 2' and 13lbs for 4' unit, options may increase weight.
- **LISTINGS** –
 - cCSAus certified as luminaire suitable for dry or damp locations.
 - Complies with the Buy American Act and other federal regulations. Request certification at hew.com/baa.
 - DesignLights Consortium qualified product. Not all versions of this product may be DLC qualified, see the DLC Qualified Products List at www.designlights.org/QPL.
- **WARRANTY** – 5-year limited warranty, see hew.com/warranty.

ORDERING EXAMPLE: GS - 2 - L240/840 - CA - OPTIONS - CONTROL/DIM - UNV

ORDERING INFO

SERIES	LENGTH	LUMENS ^[1]	CRI	CCT	TEMPERATURE
GS	2 2'	2'	8 80	30 3000K	- 45°C ambient operating temperature
	4 4'	L120 12,000lm	9 90 ^[2]	35 3500K	HA High ambient operating temperature, 55°C ^[3]
		L180 18,000lm		40 4000K	
		L240 24,000lm		50 5000K	

SHIELDING

CA	Clear acrylic lens
MD	Medium distribution, micro-prismatic acrylic lens
ND	Narrow distribution, micro-prismatic acrylic lens
HE	High efficiency, no lens included

OPTIONS

<i>See page 3 for MOUNTING OPTIONS.</i>	
EM/10W	10-watt emergency battery ^[4]
EM/14W	14-watt emergency battery ^[5]
EM/20W	20-watt emergency battery ^[6]
(L___)	Additional lower lumen packages available
	Example: 20,000 lumens = GS-2-L240/840-(L200) ^[7]
WG11	11-gauge wireguard, field-installed ^[8]
WG11 F&I	11-gauge wireguard, factory installed
6CPI/L5-15P/TWLK	6' cord and NEMA twistlock 15 AMP plug, 120V ^[9]
6CPI/L7-15P/TWLK	6' cord and NEMA twistlock 15 AMP plug, 277V ^[10]

CONTROL ^[11]

See page 6 for ADDITIONAL CONTROL OPTIONS.

–	None
AVI-LVFA	Avi-on wireless fixture control ^[13]
AVI-LVFA-PIR-ELB	Avi-on wireless fixture control with PIR motion and daylight sensor, end mount ^[14]

DRIVER ^[12]

DIM	Driver with external 0-10V dimming wires
DRV	Driver without external dimming wires
DA	Driver with 12V auxiliary power, without external dimming wires ^[15]

VOLTAGE

120	120V
208	208V
240	240V
277	277V
UNV	120-277V
347	347V ^[16]
480	480V ^[17]

QUICKSHIP

2'	4'
GS-2-L240/840-CA-QS-DIM-UNV	GS-4-L360/840-CA-QS-DIM-UNV
GS-2-L240/850-CA-QS-DIM-UNV	GS-4-L360/850-CA-QS-DIM-UNV

NOTES

- 1 Lumen output based on CA Shielding, 80 CRI/4000K CCT. Actual performance may vary +/-5%. See page 2 for FIXTURE PERFORMANCE DATA. Additional lumen packages available, see Options.
- 2 Extended lead times may apply. Consult factory for availability.
- 3 Must be suspended minimum 18" from ceiling. Not available with EM batteries. Lumen restrictions apply. See page 2 for FIXTURE PERFORMANCE DATA.
- 4 Increases fixture size. See page 4 for FIXTURE DETAILS.
- 5 Increases fixture size. See page 4 for FIXTURE DETAILS.
- 6 Increases fixture size. See page 4 for FIXTURE DETAILS.
- 7 Specify in increments of 1000 nominal lumens. Option must be specified with next higher lumen package.

- 8 Ships separately.
- 9 DA or DRV Drivers only.
- 10 DA or DRV Drivers only.
- 11 See page 5 for AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS. See page 4 for SENSOR PLACEMENT DETAILS.
- 12 Consult factory for additional driver options.
- 13 DA Driver only.
- 14 DA Driver only.
- 15 Avi-on Controls only.
- 16 Not available with EM batteries or DA Driver.
- 17 Not available with EM batteries or DA Driver.



FIXTURE PERFORMANCE DATA

	LED PACKAGE	STANDARD TEMPERATURE				HA TEMPERATURE			
		DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)	MAX AMBIENT	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)	MAX AMBIENT
2'	L120	12210	85	144	45°C	12210	85	144	55°C
	L180	18002	116	155		18002	116	155	55°C
	L240	24420	169	144		23246	156	149	50°C
4'	L240	24420	169	144		24420	169	144	55°C
	L360	36003	232	155		36003	232	155	55°C
	L480	48839	338	144		46493	312	149	50°C

- Photometrics tested in accordance with IESNA LM-79. Results based on CA 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.

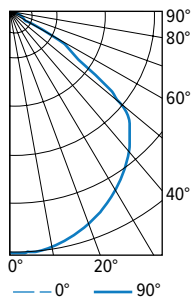
MULTIPLIER TABLES

	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
HE	1.04
CA	1.00
MD	0.95
ND	0.96

PHOTOMETRY

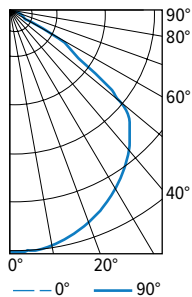
GS-2-L240/840-CA-DIM-UNV Total Luminaire Output: 24420 lumens; 169 Watts | Efficacy: 144 lm/W | 80 CRI; 4000K CCT



	VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
		0°	45°	90°	
CANDLEPOWER DISTRIBUTION	0	9257	9257	9257	
	5	9116	9272	9284	879
	15	8834	9004	8960	2530
	25	8300	8371	8398	3863
	35	7420	7551	7604	4711
	45	6232	6425	6542	4930
	55	4839	5034	3621	4130
	65	3234	2262	733	2279
	75	1621	446	451	878
	85	239	206	192	220
	90	0	0	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
LUMEN SUMMARY	0 - 30	7272	30
	0 - 40	11983	49
	0 - 60	21043	86
	0 - 90	24420	100
	0 - 180	24420	100

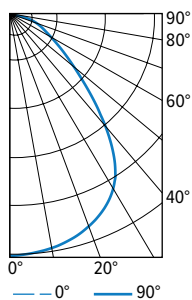
GS-2-L240/840-HE-DIM-UNV Total Luminaire Output: 25397 lumens; 169 Watts | Efficacy: 150 lm/W | 80 CRI; 4000K CCT



	VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
		0°	45°	90°	
CANDLEPOWER DISTRIBUTION	0	9627	9627	9627	
	5	9480	9642	9656	914
	15	9187	9364	9318	2632
	25	8632	8706	8734	4017
	35	7716	7853	7908	4899
	45	6482	6682	6803	5127
	55	5032	5235	3765	4296
	65	3363	2352	763	2370
	75	1686	464	469	913
	85	249	214	199	229
	90	0	0	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
LUMEN SUMMARY	0 - 30	7563	30
	0 - 40	12462	49
	0 - 60	21885	86
	0 - 90	25397	100
	0 - 180	25397	100

GS-2-L240/840-MD-DIM-UNV Total Luminaire Output: 23199 lumens; 169 Watts | Efficacy: 137 lm/W | 80 CRI; 4000K CCT

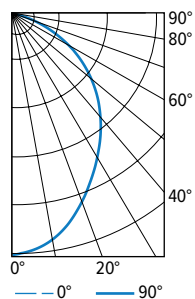


	VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
		0°	45°	90°	
CANDLEPOWER DISTRIBUTION	0	10488	10488	10488	
	5	10356	10458	10437	992
	15	10012	10118	10113	2848
	25	9226	9340	9381	4288
	35	7807	7904	7751	4868
	45	5642	5482	4794	4137
	55	3456	3241	2738	2863
	65	1978	1789	1665	1816
	75	1167	953	1026	1069
	85	351	238	265	318
	90	0	0	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
LUMEN SUMMARY	0 - 30	8128	35
	0 - 40	12995	56
	0 - 60	19996	86
	0 - 90	23199	100
	0 - 180	23199	100

PHOTOMETRY CONTINUED ON NEXT PAGE

GS-2-L240/840-ND-DIM-UNV Total Luminaire Output: 23444 lumens; 169 Watts | Efficacy: 139 lm/W | 80 CRI; 4000K CCT



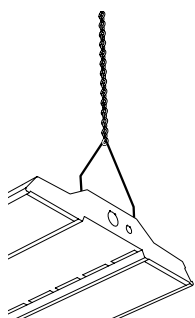
VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
	0°	45°	90°	
0	10316	10316	10316	
5	10140	10255	10224	967
15	9380	9469	9458	2652
25	8071	8112	8082	3727
35	6758	6678	6711	4199
45	5410	5326	5362	4127
55	4043	4000	3926	3560
65	2660	2635	2418	2555
75	1362	1297	1056	1328
85	338	269	219	328
90	0	0	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	7346	31
	0 - 40	11546	49
	0 - 60	19233	82
	0 - 90	23444	100
	0 - 180	23444	100

MOUNTING OPTIONS

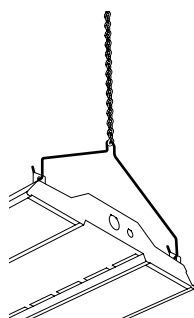
VBY-2

(2) Y-hangers with 2' chains



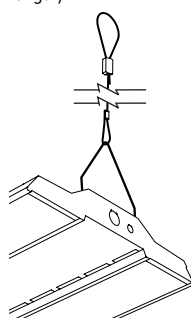
VBYW-2

(2) Wide Y-hangers with 2' chains



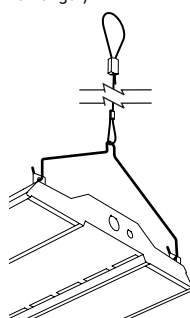
VBY/L-

(2) Y-hangers with loop cable (specify 5' or 10' length)



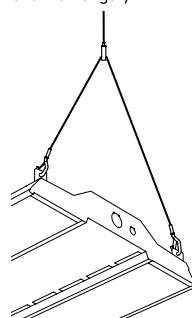
VBYW/L-

(2) Wide Y-hangers with loop cable (specify 5' or 10' length)



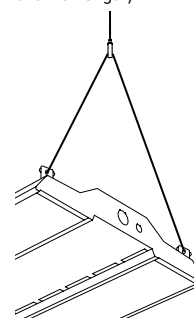
GS/Y18/-

(2) Hook cable suspension kits (specify 5' or 10' length)



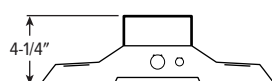
GC2/Y18/-

(2) Toggle cable suspension kits (specify 5' or 10' length)

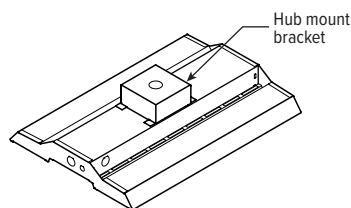
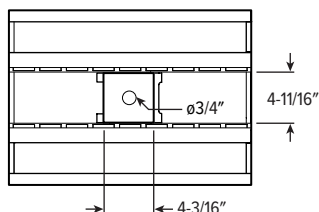


GS-HUB MT Cast iron hub and junction box for single 3/4" pendant mount, ships separately. 10' aircraft cable and Y-hanger factory furnished for leveling fixture from single support.

Cross Section

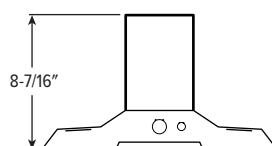


Backview

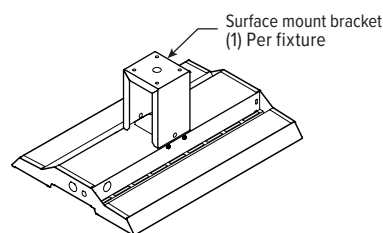
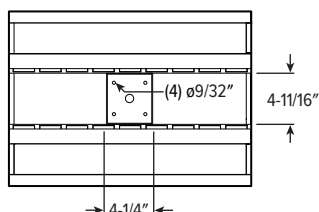


GS-SMK Surface mount kit, ships separately. Not available with HA Option.

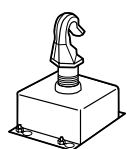
Cross Section



Backview



GS-HUB/HOOK MT Cast iron hub with mounting hook, ships separately.



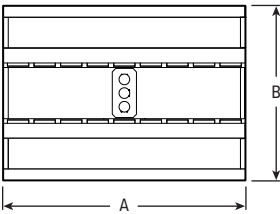
Mounting hook with safety screw allows easy replacement of existing HID fixtures. Hook attaches to the fixture with 3/4" NPT cast iron hub and junction box.

10' aircraft cable and Y-hanger factory furnished for leveling fixture from single support.



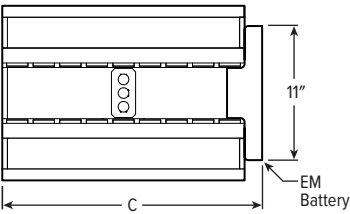
FIXTURE DETAILS

BACKVIEW



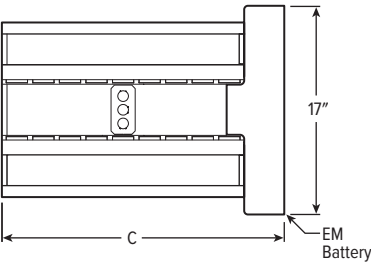
	A (LENGTH)	B (WIDTH)
2'	20"	14-7/8"
4'	40-3/8"	14-7/8"

EM/10W

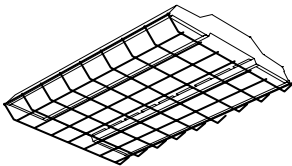


	C (FIXTURE LENGTH WITH EM)	
	EM/10W	EM/20W
2'	21-9/16"	23-1/8"
4'	41-13/16"	43-1/2"

EM/20W

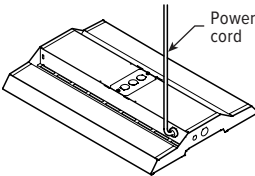


WG11

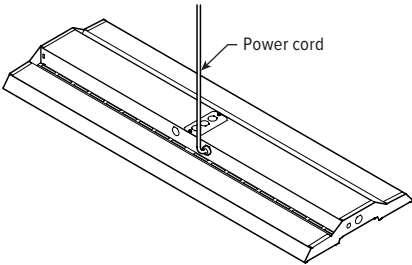


POWER ENTRY

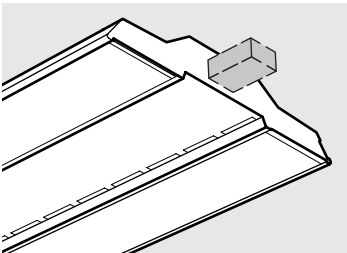
2'



4'



SENSOR PLACEMENT DETAILS



SEE NEXT PAGE FOR CONTROL DETAILS.

AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS

FEATURES

Simple

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

Scalable

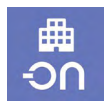
- Virtually unlimited network size
- Spans small areas to large garages
- Flexible control strategies

Secure

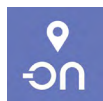
- Optional cloud connectivity
- UL IoT platinum security rating
- DLC 5.0 compliant

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

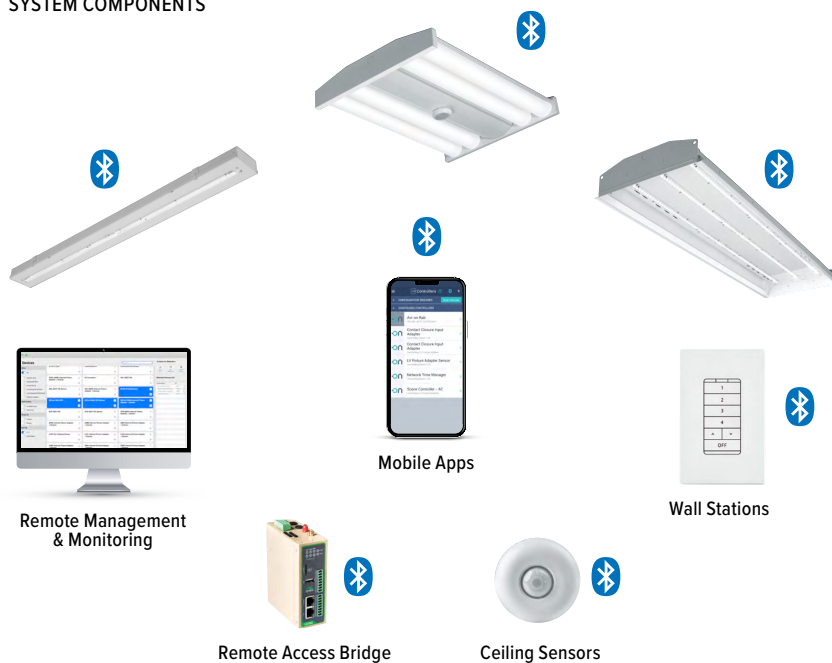


Zone Scanner Web App



Commissioning Pro App

SYSTEM COMPONENTS



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ACCESSORIES

WALL STATIONS

AVI-2401AC	Scene controller - numbered 1-4, 120-277VAC
AVI-2402BAT	Scene controller - numbered 1-4, battery powered
AVI-2401AC-2	Dimmer with presets - percentages, 120-277VAC
AVI-2402BAT-2	Dimmer with presets - percentages, battery powered
AVI-2401AC-3	On/off/dimming, 120-277VAC
AVI-2402BAT-3	On/off/dimming, battery powered

NETWORK

AVI-RAB-LTE	Remote access bridge
AVI-KIT-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

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

SPECIFICATIONS

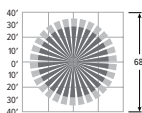
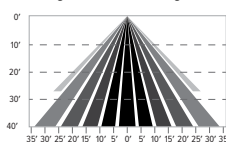
TYPE	PIR Motion + Daylight
MOUNTING HEIGHT	8' – 45'
LENS	Single lens detects high and low bay motion.
DETECTION ANGLE	360°
TEMPERATURE RANGE	-30° to 70°C
RELATIVE HUMIDITY	90 to 95% at 30°C
COMMISSIONING	App (iOS or Android)
SYSTEM REQUIREMENTS	Avi-On wireless fixture controls plus desktop and mobile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



SENSOR COVERAGE PATTERNS

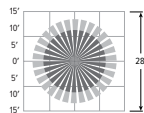
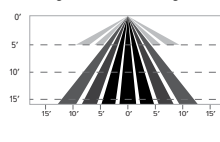
Large motion

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.

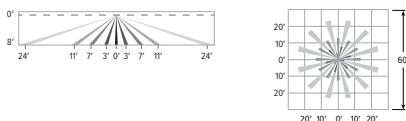
OCCWS-FSP-221B-L_-120-480 Wattstopper PIR motion and daylight sensor using 0-10V internal control, 120V-480V. Must specify lens: L2, L3 or L7. Factory installed.

FSIR-100 Remote controller for 221B sensor. Please specify quantity required per project. Ordered and shipped separately.

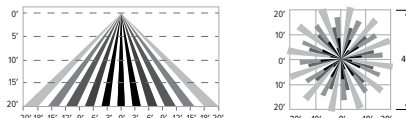
SPECIFICATIONS	
TYPE	PIR Motion + Daylight
MOUNTING HEIGHT	8' – 40'
DETECTION ANGLE	360°
TEMPERATURE RANGE	-40° to 75°C
COMMISSIONING	321B Sensor: App (iOS or Android) 221B Sensor: FSIR-100 Remote

SENSOR COVERAGE PATTERNS

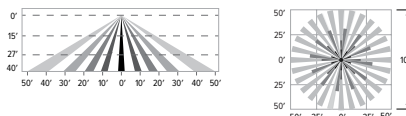
L2 8' height: ø48' coverage



L3 20' height: ø40' coverage



L7 40' height: ø100' coverage



SENSOR DETAIL



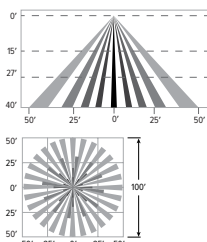
OCCWS-HBP-111-L7-120/277/347 Wattstopper PIR motion and daylight hold off sensor, 120/277/347V. Adjustable via remote. Optional FSIR-100 remote controller available.

FSIR-100 Remote controller for HBP-111 sensor. Please specify quantity required per project. Ordered and shipped separately.

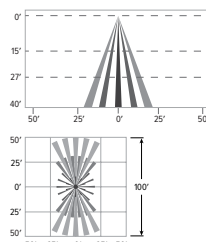
SPECIFICATIONS	
TYPE	PIR Motion + Daylight Hold Off
MOUNTING HEIGHT	15' – 40'
DETECTION ANGLE	360°
TEMPERATURE RANGE	0° to 70°C
RELATIVE HUMIDITY	5 to 95%, non-condensing
COMMISSIONING	FSIR-100 Remote

SENSOR COVERAGE PATTERNS

40' height: ø100' coverage



With mask: 40' height: ø50' coverage



SENSOR DETAIL



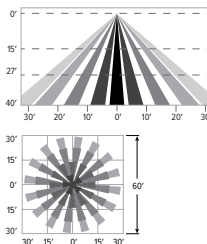
OCCLV-OSFHU-ITW-120-347 Leviton PIR motion sensor, 120-347V

OCCLV-OSFHU-14W-208/240/480 Leviton PIR motion sensor, 208/240/480V

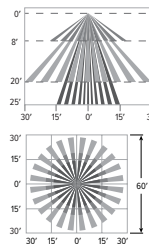
SPECIFICATIONS	
TYPE	PIR Motion
MOUNTING HEIGHT	8' – 40'
LENS	Interchangeable high bay, low bay or aisle mask
DETECTION ANGLE	360°
TEMPERATURE RANGE	-10° to 71°C
RELATIVE HUMIDITY	20% to 90% non-condensing

SENSOR COVERAGE PATTERNS

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



**Low bay
25' height: ø60' coverage**



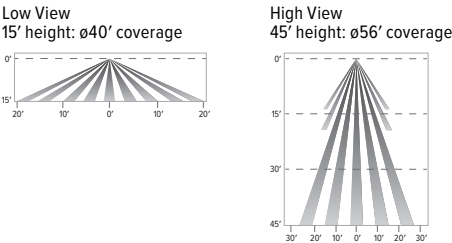
SENSOR DETAIL



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

