

CATALOG #: _____

Type: _____

PROJECT: _____



FEATURES

- Scalable design up to 72,000 lumens
- Optimized for single-person installation
- Multiple shielding and distribution options
- High-performance up to 154 lm/W
- Frosted lens reduces glare
- Energy-saving alternative designed to replace traditional HID or fluorescent high bay fixtures
- Variety of mounting options for surface and suspended applications
- Wireless in-fixture control solutions available
- Made Right Here® in the USA

SPECIFICATIONS

- **HOUSING** – Die-formed steel housing.
- **SHIELDING** – Frosted acrylic.
- **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. L70 at 65,000 hours. 40°C maximum ambient operating temperature standard. 55°C max when specified with HA option. 45°C max when specified with EM battery.
- **MOUNTING** – Suspended. Surface mount kit available. Indoor applications only.
- **LISTINGS** –
 - cCSAus certified as luminaire suitable for dry or damp locations.
 - DesignLights Consortium qualified product. Not all versions of this product may be DLC qualified, see the DLC Qualified Products List at designlights.org/QPL.
 - Complies with the Buy American Act and other federal regulations. Request certification at hew.com/baa.
- **WARRANTY** – 5-year limited warranty, see hew.com/warranty.

ORDERING EXAMPLE: GH - 2 - L240/840 - FA - OPTIONS - CONTROL/DIM - UNV

ORDERING INFO

SERIES	LENGTH	LUMENS ^[1]	CRI	CCT	TEMPERATURE	SHIELDING
GH	2' 2"		8 80	30 3000K	- 40°C ambient operating temperature	FA Frosted acrylic
	4' 4"	L80 8,000lm	9 90 ^[2]	35 3500K	HA High ambient operating temperature, 55°C ^[3]	FP Frosted polycarbonate
		L120 12,000lm		40 4000K		HE High efficiency, no lens included
		L180 18,000lm		50 5000K		ND Narrow distribution
		L240 24,000lm				
		L300 30,000lm				
		L360 36,000lm				
		L480 48,000lm				
		L540 54,000lm				
		L600 60,000lm				
		L660 66,000lm				
		L720 72,000lm				

OPTIONS ^[4]

See page 5 for FINISH OPTIONS.

EM/10W	10-watt emergency battery ^[5]
EM/14W	14-watt emergency battery ^[6]
EM/20W	20-watt emergency battery ^[7]
UP	Uplight ^[8]
(L___)	Additional lower lumen packages available Example: 8,000 lumens = GH-4-L120/835-(L80) ^[9]
SDT	Stepdown transformer ^[10]
ALUM	Silver sparkle aluminum
BLK	Textured black
BRZ	Textured bronze
NKL	Textured nickel
SLV	Textured silver
WHT	Textured white

WG11	11-gauge wireguard, field-installed ^[11]
WG11 F&I	11-gauge wireguard, factory installed
VBY	(2) Y-hangers
VBY-2	(2) Y-hangers with 2' chains
GC2/Y18/5	(2) Cable suspension kits, 5' length
GC2/Y18/10	(2) Cable suspension kits, 10' length
HUB MT	Cast iron hub and junction box for single 3/4" pendant mount ^[12]
HUB/HOOK MT	Cast iron hub with mounting hook ^[13]
HOOK/CABLE	Hook and cable mounting kit, 10'
GH-SMK	Surface mount kit
6CPI/L5-15P/TWLK	6' cord and NEMA twistlock 15 AMP plug, 120V ^[14]
6CPI/L7-15P/TWLK	6' cord and NEMA twistlock 15 AMP plug, 277V ^[15]
6CPI/L8-20P/TWLK	6' cord and NEMA twistlock 20 AMP plug, 480V ^[16]

CONTROL ^[17]

See page 7 for ADDITIONAL CONTROL OPTIONS.

-	None
AVI-LVFA	Avi-on wireless fixture control ^[19]
AVI-LVFA-PIR	Avi-on wireless fixture control with PIR motion and daylight sensor, bottom mount ^[20]

DRIVER ^[18]

DIM	Driver with external 0-10V dimming wires
DRV	Driver without external dimming wires
DA	Driver with 12V auxiliary power, without external dimming wires ^[21]

VOLTAGE

120	120V
208	208V
240	240V
277	277V
UNV	120-277V
347	347V ^[22]
480	480V ^[23]

NOTES

- ¹ Lumen output based on FA 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 May increase fixture width. Must be suspended minimum 18" from ceiling. Lumen restrictions apply. See page 2 for FIXTURE PERFORMANCE DATA.
- ⁴ See page 3 for MOUNTING DETAILS.
- ⁵ Increases fixture size. See page 4 for FIXTURE DETAILS.
- ⁶ Increases fixture size. See page 4 for FIXTURE DETAILS.
- ⁷ Increases fixture size. See page 4 for FIXTURE DETAILS.
- ⁸ Percentage of uplight depends on fixture width. See page 2 for FIXTURE PERFORMANCE DATA.
- ⁹ Specify in increments of 1000 nominal lumens. Option must be specified with next higher lumen package.
- ¹⁰ Fixtures greater than L480 require (2) step down transformers.
- ¹¹ Shipped separately.
- ¹² Shipped separately.
- ¹³ Shipped separately.
- ¹⁴ DRV only.
- ¹⁵ DRV only.
- ¹⁶ DRV only.
- ¹⁷ See page 6 for AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS. See page 5 for SENSOR PLACEMENT DETAILS.
- ¹⁸ Consult factory for additional driver options.
- ¹⁹ DA Driver only.
- ²⁰ DA Driver only.
- ²¹ Avi-on Controls only.
- ²² Not available with EM batteries or DA Driver.
- ²³ Not available with EM batteries or DA Driver.



FIXTURE PERFORMANCE DATA

	LED PACKAGE	STANDARD TEMPERATURE (40°C MAXIMUM AMBIENT)				HA TEMPERATURE (55°C MAXIMUM AMBIENT)			
		DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)	WIDTH	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)	WIDTH
2'	L80	8,075	55.9	144	12"	8,075	55.9	144	12"
	L120	11,922	90.8	131	12"	12,246	79.4	154	18"
	L180	18,009	125.9	143	18"	18,357	121.5	151	24"
	L240	23,470	176.8	133	18"	24,001	163.9	146	24"
	L300	31,000	227.7	136	24"	—	—	—	—
	L360	35,765	272.6	131	24"	—	—	—	—
4'	L120	12,246	79.4	154	12"	12,246	79.4	154	12"
	L180	18,009	125.9	143	12"	—	—	—	—
	L240	23,510	177.9	132	12"	—	—	—	—
	L300	31,210	215.8	145	18"	31,210	215.8	145	18"
	L400	40,295	293.2	137	18"	40,268	268.9	150	24"
	L480	47,687	363.5	131	18"	48,002	327.9	146	24"
	L540	54,031	372.2	145	24"	—	—	—	—
	L600	61,173	429.8	142	24"	—	—	—	—
	L660	66,420	495.9	134	24"	—	—	—	—
	L720	72,181	539.7	134	24"	—	—	—	—

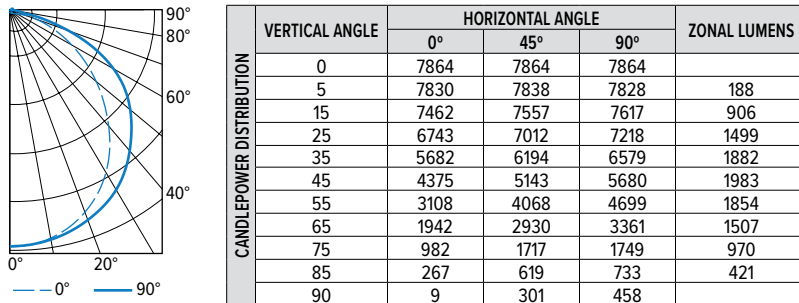
MULTIPLIER TABLES

	COLOR TEMPERATURE		SHIELDING	
	CCT	CONVERSION FACTOR	CATALOG NUMBER	CONVERSION FACTOR
80 CRI	3000K	0.96	FA	1.00
	3500K	0.97	FP	0.95
	4000K	1.00	HE	1.09
	5000K	1.03	ND	1.08
90 CRI	3000K	0.79	UPLIGHT %	
	3500K	0.80		
	4000K	0.83	WIDTH	FA
	5000K	0.86		HE ND
			12"	16
			18"	10
			24"	8

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

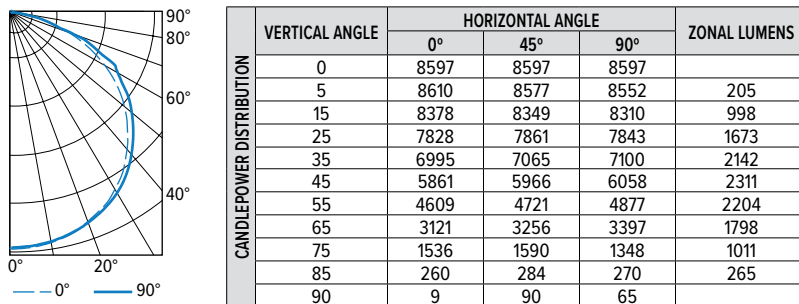
PHOTOMETRY

GH-2-L240/840-FA-DIM-UNV Report #: 13309242.03; 04/16/20 | Total Luminaire Output: 23470 lumens; 176.8 Watts | Efficacy: 132.7 lm/W | 80 CRI; 4000K CCT



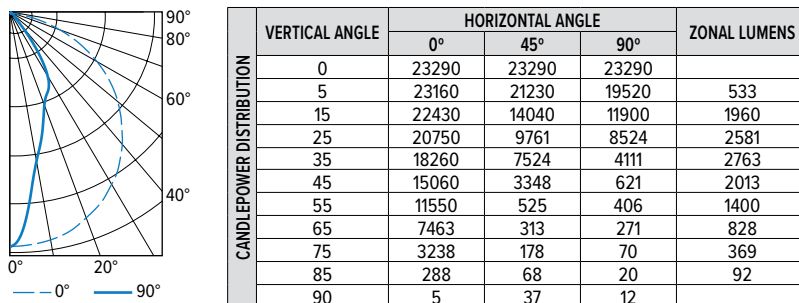
LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 40	9946	42
	0 - 60	17436	74
	0 - 90	22488	96
	90 - 180	981	4
	0 - 180	23470	100

GH-2-L240/840-HE-DIM-UNV Report #: 13309242.04; 04/16/20 | Total Luminaire Output: 25500 lumens; 177.1 Watts | Efficacy: 144.0 lm/W | 80 CRI; 4000K CCT



LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 40	11191	44
	0 - 60	20026	79
	0 - 90	25244	99
	90 - 180	263	1
	0 - 180	25500	100

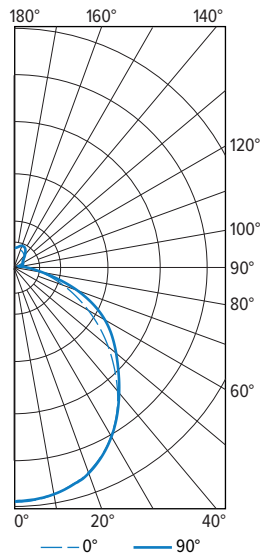
GH-2-L240/840-ND-DIM-UNV Report #: 13309242.01; 04/14/20 | Total Luminaire Output: 25350 lumens; 177.9 Watts | Efficacy: 142.5 lm/W | 80 CRI; 4000K CCT



LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 40	16787	66
	0 - 60	23010	91
	0 - 90	25091	99
	90 - 180	264	1
	0 - 180	25350	100



GH-2-L240/840-FA-UP-DIM-UNV Report #: 13309242.02; 04/10/20 | Total Luminaire Output: 22670 lumens; 176.8 Watts | Efficacy: 128.2 lm/W | 80 CRI; 4000K CCT



VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
	0°	45°	90°	
0	7970	7970	7970	
5	7940	7936	7913	190
15	7590	7599	7597	913
25	6878	6949	6901	1493
35	5790	5890	5830	1807
45	4460	4628	4710	1819
55	3172	3478	3752	1631
65	1988	2405	2594	1279
75	1011	1339	1161	779
85	279	357	356	281
90	11	103	123	113
95	53	149	177	63
105	153	225	258	104
115	254	252	292	130
125	350	349	314	154
135	435	502	423	180
145	499	640	590	190
155	557	688	721	166
165	589	667	718	110
175	609	632	638	45
180	628	628	628	

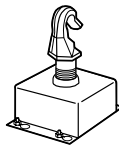
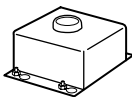
LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 40	9732	43
	0 - 60	16403	72
	0 - 90	20408	90
	90 - 180	2259	10
	0 - 180	22670	100

MOUNTING DETAILS

GC2/Y18/_

HUB MT

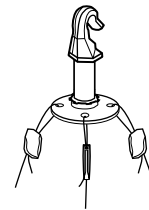
4' fixture requires two hubs for mounting



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

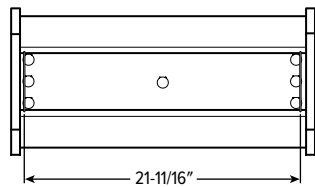


Hook and 10' cable mounting kit. Mounting hook is secured to the structure by eye bolt or loop (furnished by others).

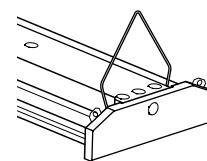
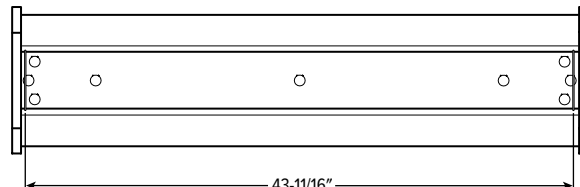
Attached at the base of the hook is a circular mounting plate with four (4) 10' adjustable cables, oriented in 90° intervals, suspended below.

VBY | VBY-2

2'

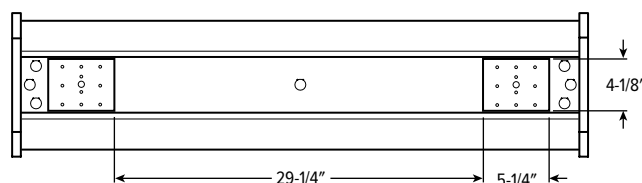
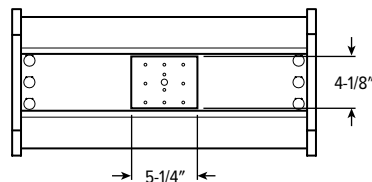
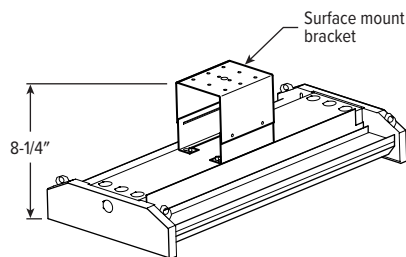


4'



GH-SMK

4' fixture requires two brackets for mounting



H.E. Williams, Inc.

Carthage, Missouri

www.hew.com

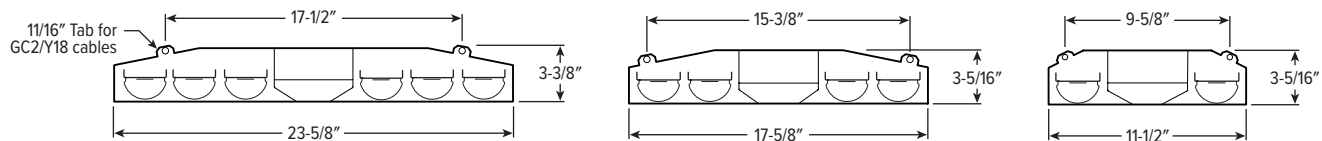
417-358-4065

Designed and Manufactured in the USA

REV.02/29/24.LA

High Bay
Page 3 of 8

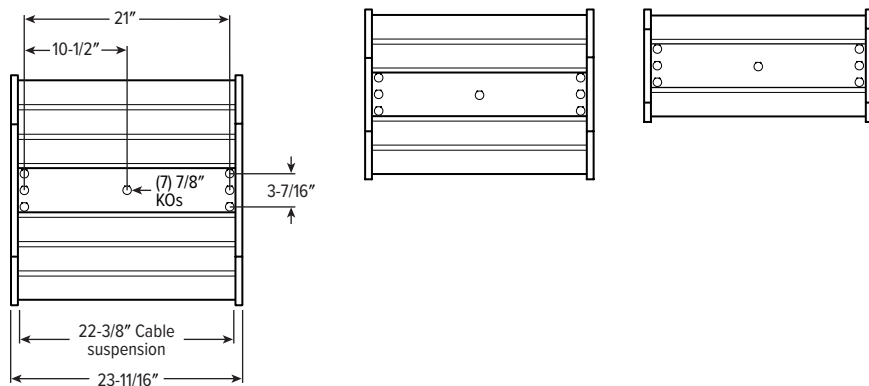
CROSS SECTIONS



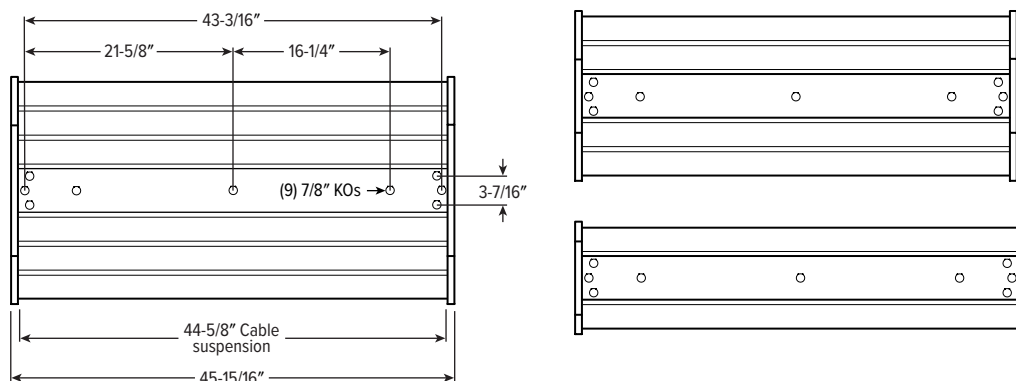
FIXTURE DETAILS

BACKVIEW

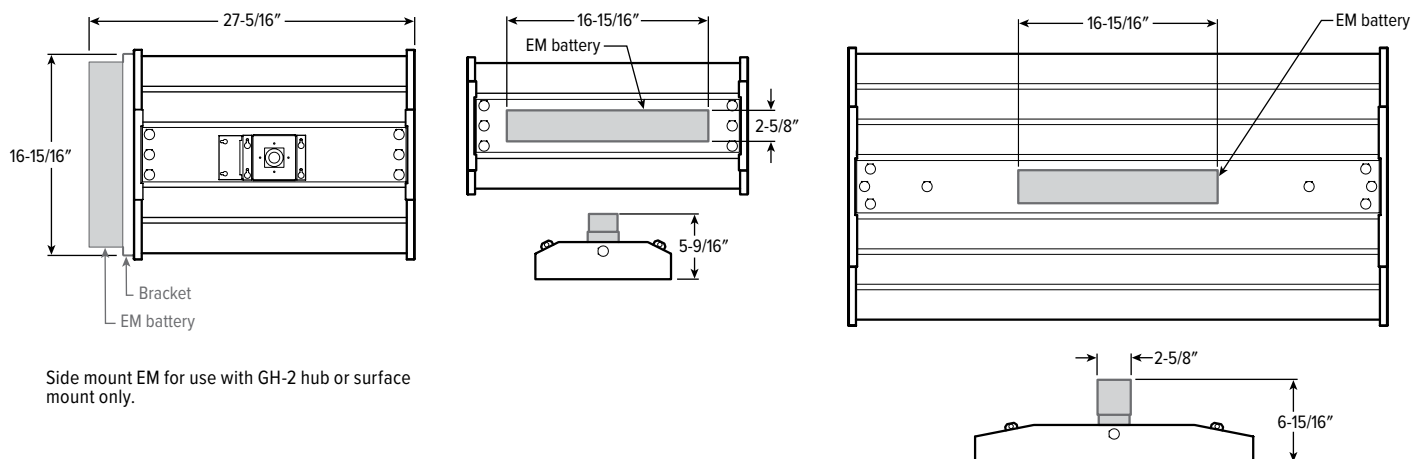
2'









4'



EM BATTERY



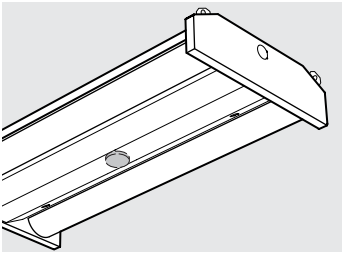
FINISH OPTIONS

WHITE	BLACK	BRONZE	NICKEL	SILVER	ALUM
					

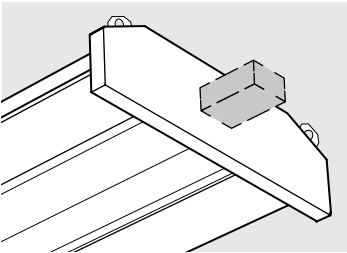
For custom color, please specify RAL code or a manufacturer code with description. All custom colors other than RAL require two sample swatches, minimum 1" square.

SENSOR PLACEMENT DETAILS

AVI-LVFA-PIR



WS-FSP | WS-HBP | LV-OSFHU | LSXR



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 Avi-on wireless fixture control with high bay PIR motion and daylight sensor, bottom mount. DA Driver only.

SPECIFICATIONS

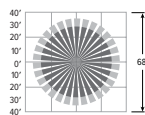
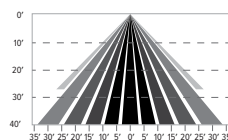
TYPE	PIR Motion + Daylight
MOUNTING HEIGHT	8' – 45'
LENS	Single lens detects high and low bay motion.
DETECTION ANGLE	360°
TEMPERATURE RANGE	-30° to 70°C
RELATIVE HUMIDITY	90 to 95% at 30°C
COMMISSIONING	App (iOS or Android)
SYSTEM REQUIREMENTS	Avi-On wireless fixture controls plus desktop and mobile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



SENSOR COVERAGE PATTERNS

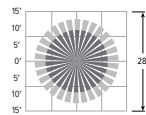
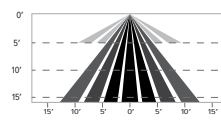
Large motion

40' height: ø68' coverage



Small motion

15' height: ø28' coverage



SENSOR DETAIL



Dimensions: 2-5/16" x 1-7/16"



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.

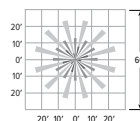
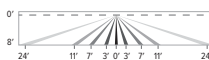
OCCWS-FSP-221B-L_-120-480 Wattstopper PIR motion and daylight sensor using 0-10V internal control, 120V-480V. Must specify lens: L2, L3 or L7. Factory installed.

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

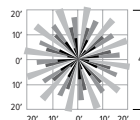
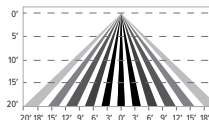
SPECIFICATIONS	
TYPE	PIR Motion + Daylight
MOUNTING HEIGHT	8' – 40'
DETECTION ANGLE	360°
TEMPERATURE RANGE	-40° to 75°C
COMMISSIONING	321B Sensor: App (iOS or Android) 221B Sensor: FSIR-100 Remote

SENSOR COVERAGE PATTERNS

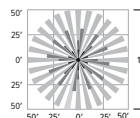
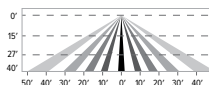
L2 8' height: ø48' coverage



L3 20' height: ø40' coverage



L7 40' height: ø100' coverage



SENSOR DETAIL



OCCWS-HBP-111-L7-120/277/347

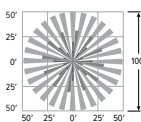
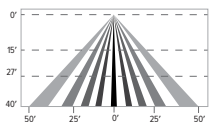
Wattstopper PIR motion and daylight hold off sensor, 120/277/347V. Adjustable via remote. Optional FSIR-100 remote controller available.

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

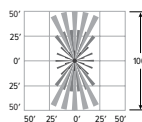
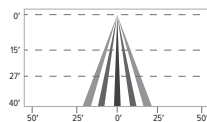
SPECIFICATIONS	
TYPE	PIR Motion + Daylight Hold Off
MOUNTING HEIGHT	15' – 40'
DETECTION ANGLE	360°
TEMPERATURE RANGE	0° to 70°C
RELATIVE HUMIDITY	5 to 95%, non-condensing
COMMISSIONING	FSIR-100 Remote

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

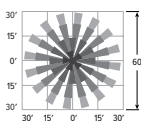
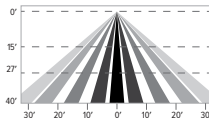
OCCLV-OSFHU-I4W-208/240/480 Leviton PIR motion sensor, 208/240/480V

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

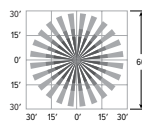
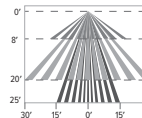
High bay

40' height: ø60' coverage



Low bay

25' height: ø60' coverage



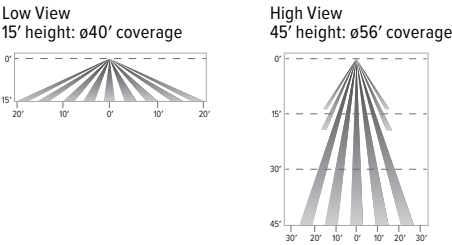
SENSOR DETAIL



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

