

CATALOG #: _____

Type: _____

PROJECT: _____



FEATURES

- Wide distribution optics are ideal for parking garage applications
- Fully gasketed fixture is built tough to resist contaminants
- Toggle latches ensure a tight seal and provide easy access to electrical components
- Optional tamper-resistant latches available
- Standard stainless steel latches protect the fixture from corrosion in harsh environments
- NEMA 4X, IP65, IP66, IP67, and NSF/ANSI Standard 2–Splash Zone certified
- Low ambient option for extreme cold environments
- Closed-cell polyurethane gasket poured and formed in place to ensure tight seal—does not absorb water or promote fungal growth
- High-performance up to 148 lm/W
- Wireless in-fixture control solutions available
- Made Right Here® in the USA

SPECIFICATIONS

- ENCLOSURE** – Outer housing consists of 5VA (f1) fiberglass, rated for flame and weather resistance.
- INTERNAL HOUSING** – .050" aluminum.
- LATCHING** – Stainless steel latches. Injection-molded polycarbonate latches available (not recommended for use in harsh environments, such as a car wash).
- REFLECTOR** – 95% reflective highly specular aluminum.
- SHIELDING** – Frosted or clear, impact-resistant acrylic.
- ELECTRICAL** – High-quality mid-power LED board. L70 >60,000 hours. -20°C to 40°C maximum ambient operating temperature. -40°C minimum with LA option (restrictions apply, see fixture performance data). 50/60 Hz constant current driver.
- MOUNTING** – Surface or suspended. Stainless steel ceiling mount brackets included.
- LISTINGS** –
 - cETLus conforms to UL STD 1598 and UL STD 8750. Certified to CAN/CSA STD C22.2 No. 250.0. Suitable for wet locations when specified with watertight hub, STOW or SOOW cord, or mini-male receptacle option.
 - NSF/ANSI Standard 2–Splash Zone certified, IP65, IP66, and IP67 certified, and rated for NEMA 4X.
 - Build America, Buy American (BABA) and Buy American Act (BAA) compliant. Request certification at hew.com/buy-american
- WARRANTY** – 5-year limited warranty, see hew.com/warranty

ORDERING EXAMPLE: 97 - 4 - L95/840 - FR - OPTIONS - CONTROL/DRV - UNV

SERIES	LENGTH	LUMENS ^[1]	CRI	CCT	SHIELDING
97	2 2'	2'	8 80	30 3000K	FR Frosted, impact-resistant acrylic
	4 4'	L25 2500lm	9 90	35 3500K	A Clear, impact-resistant acrylic with frosted ends
		L37 3700lm		40 4000K	
		L45 4500lm		50 5000K	
	4'	L50 5000lm			
		L79 7900lm			
		L95 9500lm			

OPTIONS ^[2]

EM/6WC	6-watt emergency, low temperature battery ^[4]
EM/10W	10-watt emergency battery ^[5]
EM/10WRM/WET	Remote mount 10-watt emergency battery with wet location enclosure ^[6]
(L__)	Additional lower lumen packages available Example: 6,100 lumens = 97-4-L79/840-FR-(L61) ^[7]
LA	Low ambient operating temperature ^[8]
WET/1	(1) 1/2" watertight hub ^[9]
WET/2	(2) 1/2" watertight hubs ^[10]
SSCMB	(2) Stainless steel chain mounting brackets
PCL	Injection-molded polycarbonate latches ^[11]
TP	Tamper-resistant screws ^[12]

CONTROL ^[3]

See page 5 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

See page 5 for **ADDITIONAL DRIVER OPTIONS**.

DIM	Driver with external 0-10V dimming wires	120 120V
DRV	Driver without external dimming wires	277 277V
DA	Driver with 12V auxiliary power, without external dimming wires ^[15]	UNV 120-277V
		347 347V ^[16]

VOLTAGE

ACCESSORIES

TPTG TOOL Tamper-resistant tool for tri-groove screws. ^[17]

NOTES

- Lumen output based on FR shielding, 80 CRI/4000K CCT. Actual performance may vary +/-5%. See page 2 for **FIXTURE PERFORMANCE DATA**. Additional lumen packages available, see options.
- Stainless steel latches required for applications with harsh chemicals. See page 3 for **CORD OPTIONS**. See page 3 for **OPTIONS**.
- See page 3 for **SENSOR PLACEMENT DETAILS**. See page 4 for **AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS**.
- 4' only. Rated for -20°C to 25°C ambient temperature.
- 4' only. 25°C maximum ambient operating temperature at or below L79.
- 30°C maximum ambient operating temperature. Max remote distance 50'. Includes (2) 1/2" watertight hubs. See page 3 for **FIXTURE DETAILS**.
- Specify in increments of 100 nominal lumens. Option must be specified with next higher lumen package.

- DIM driver only. Not available with EM batteries, controls, or 347V. Lumen restrictions apply. See **FIXTURE PERFORMANCE DATA** on page 2.
- Factory-installed in end of housing. Increases overall length by 1/8"
- Factory-installed in ends of housing. Not available with occupancy sensor option. Increases overall length by 1/4"
- Not recommended for use in harsh environments, such as a car wash.
- When TP option is specified, fixture is not NSF/ANSI 2 certified. Requires a tamper-resistant tool, see **Accessories**.
- DA Driver only.
- DA Driver only. IP66-rated.
- Avi-on Controls only.
- Not available with EM batteries or DA Driver.
- Ordered separately, please specify quantity required per project.



97^{LED} Enclosed & Gasketed Industrial/Garage Lighter

FIXTURE PERFORMANCE DATA

	LED PACKAGE	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)	MINIMUM TEMPERATURE (°C)
					LA OPTION
2'	L25	2559	18.3	140	30
	L37	3756	27.2	138	30
	L45	4554	30.8	148	40
4'	L50	5118	34.7	147	40
	L79	7920	57.3	138	40
	L95	9590	64.8	148	40

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

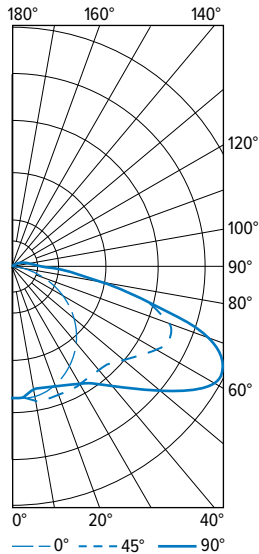
MULTIPLIER TABLES

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

LENS	CONVERSION FACTOR
A	1.00
FR	0.98

PHOTOMETRY

97-4-L95/840-FR-DRV-UNV Total Luminaire Output: 9590 lumens; 64.8 Watts | Efficacy: 148 lm/W | 86.8 CRI; 4166K CCT



VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
	0°	45°	90°	
0	1545	1545	1545	
5	1570	1599	1458	149
15	1528	1609	1501	442
25	1427	1608	1553	717
35	1285	1595	1680	970
45	1088	1629	2050	1243
55	844	1853	2546	1582
65	565	2070	2778	1795
75	307	1660	1823	1408
85	109	716	689	665
90	70	460	411	
95	51	314	281	285
105	36	185	172	154
115	22	117	134	95
125	11	65	95	52
135	0	30	54	22
145	0	12	28	8
155	0	0	10	2
165	0	0	0	0
175	0	0	0	0
180	0	0	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	1308	14
	0 - 40	2278	24
	0 - 60	5103	53
	0 - 90	8971	94
	90 - 120	534	6
	90 - 150	617	6
	90 - 180	619	7
	0 - 180	9590	100



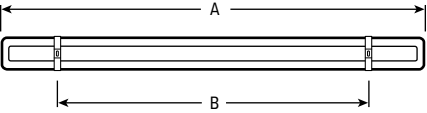
97

LED

Enclosed & Gasketed Industrial/Garage Lighter

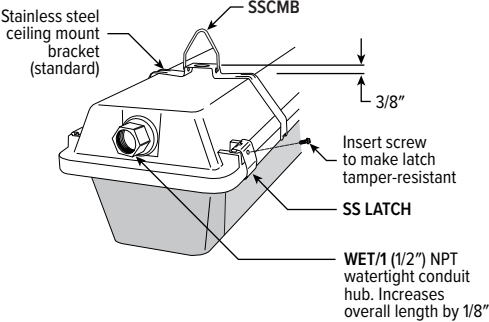
FIXTURE DETAILS

BACKVIEW



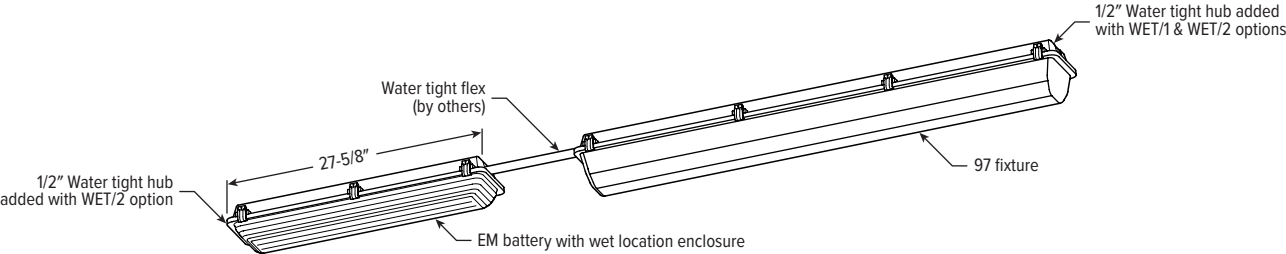
NOMINAL LENGTH	OVERALL LENGTH (A)	MOUNTING DISTANCE (B)
2'	27-5/8"	12"- 17" OC
4'	51-7/8"	30"- 42" OC
8'	100-1/4"	48"- 80" OC

OPTIONS



REMOTE MOUNT BATTERY

Max remote distance 50'. Includes (2) 1/2" watertight hubs.

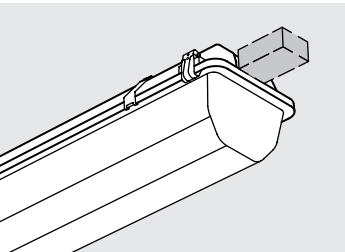


CORD OPTIONS

EXAMPLE: 5WMRC6		
NUMBER OF CONDUCTORS	POWER CONNECTION – NON-DIMMING	CORD LENGTH
3 3-wire	WMR Mini-male receptacle only	-
	WC STOW cord	6 6'
	WMRC Mini-male receptacle with STOW cord	20 20'
4 4-wire	POWER CONNECTION – DIMMING	
	WMR Mini-male receptacle only	-
	WC SOOW cord	6 6'
	WMRC Mini-male receptacle with SOOW cord	20 20'

Wet location cord sets are yellow.

SENSOR PLACEMENT DETAILS



SEE NEXT PAGE FOR CONTROL DETAILS.

97 LED Enclosed & Gasketed Industrial/Garage Lighter

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

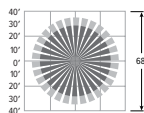
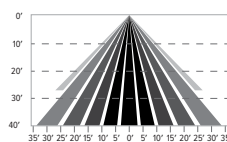
AVI-LVFA-PIR-ELB Avi-on wireless fixture control with PIR motion and daylight sensor, end mount. DA Driver only.

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

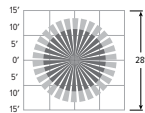
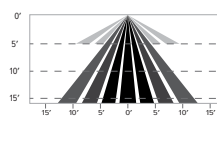
IP66 certified for wet locations.

SENSOR COVERAGE PATTERNS

Large motion
40' height: ø68' coverage



Small motion
15' height: ø28' coverage



SENSOR DETAIL



H.E. Williams, Inc.

Carthage, Missouri

www.hew.com

417-358-4065

Designed and Manufactured in the USA

REV.03/14/25.MH

Industrial
Page 4 of 5

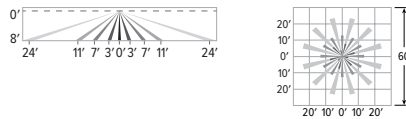
ADDITIONAL CONTROL OPTIONS

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.

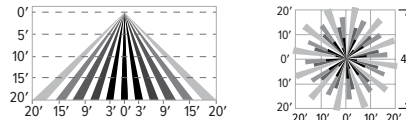
SPECIFICATIONS	
TYPE	PIR Motion + Daylight
MOUNTING HEIGHT	8' – 40'
DETECTION ANGLE	360°
TEMPERATURE RANGE	-40° to 75°C
COMMISSIONING	321B Sensor: App (iOS or Android) 221B Sensor: FSIR-100 Remote

SENSOR COVERAGE PATTERNS

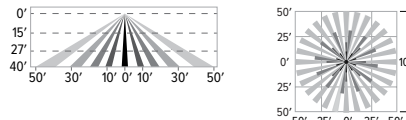
L2 8' height: ø48' coverage



L3 20' height: ø40' coverage



L7 40' height: ø100' coverage



SENSOR DETAIL

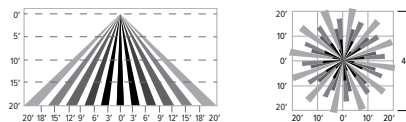


OCCWS-HB350W-L3W-___ Wattstopper PIR motion sensor. Must specify voltage: 120 or 277V.

SPECIFICATIONS	
TYPE	PIR Motion
MOUNTING HEIGHT	20'
DETECTION ANGLE	360°
TEMPERATURE RANGE	-40° to 70°C
RELATIVE HUMIDITY	20 to 90%, non-condensing

SENSOR COVERAGE PATTERNS

20' height: ø40' coverage



SENSOR DETAIL



IP65 certified for wet locations. Not rated for NEMA 4X.

ADDITIONAL DRIVER OPTIONS

Note: Lumen restrictions apply, consult product builder at hew.com/product-builder

CATALOG NUMBER	DESCRIPTION
DRV	Driver without external dimming wires prewired for non-dimming applications
DIM	Driver with external dimming wires prewired for 0-10V low voltage applications
DIM1	1% driver with external dimming wires prewired for 0-10V low voltage applications
DIM LINE	Line voltage dimming driver (TRIAC and ELV compatible, 120V only)
DIM TRC	Line voltage dimming driver (TRIAC compatible, 120V only)
DA	Driver with 12V auxiliary power, without external dimming wires
SD40	40% step-dimming driver
SD50	50% step-dimming driver
DALI	DALI dimming driver
LDE1	Lutron Hi-lume 1% EcoSystem dimming driver

