

CATALOG #: _____

TYPE: _____

PROJECT: _____



FEATURES

- High-performance up to 160 lm/W
- 40°C max ambient operating temperature
- Diverse selection of mounting accessories for surface and suspended applications
- Channel connector furnished for continuous row applications (included with 8' units only)
- Special reflectors are available for precise light distribution
- Optional wireguard provides added protection
- Wireless in-fixture control solutions available
- Made Right Here® in the USA

SPECIFICATIONS

- HOUSING** – 22-gauge die-formed C.R.S.
- 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 60,000 hours. 40°C maximum ambient operating temperature. 50°C maximum ambient operating temperature with HA Option, lumen restrictions apply.
- MOUNTING** – Surface (ceiling or wall) or suspended (hanging hardware required).
- 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.
- WARRANTY** – 5-year limited warranty, see hew.com/warranty.

ORDERING EXAMPLE: 76 - 4 - L53/840 - OPTIONS - CONTROL/DIM - UNV

ORDERING INFO

SERIES	LENGTH ^[1]	LUMENS ^[2]	CRI	CCT	OPTIONS ^[3]
76	4 4'	4'	8 80	27 2700K	EM/10W 10-watt emergency battery
	8 8'	L32 3,200lm	9 90 ^[4]	30 3000K	(L__) Additional lower lumen packages available. ^[5] Example: 8,000 nominal lumens = 76-8-L106/835-(L80)
		L53 5,300lm		35 3500K	QC__ Quick-connect wiring harness. ^[6]
		L77 7,700lm		40 4000K	WG-7611 11-gauge white powder coat wireguard
		L115 11,500lm		50 5000K	WG-7614 14-gauge white powder coat wireguard
		8'			SS-12 Single stem and canopy, 12" ^[7]
		L64 6,400lm			SWS-12 Swivel stem and canopy, 12" ^[8]
		L106 10,600lm			320 1-1/2" ceiling spacer
		L154 15,400lm			GAT GAT fastener (T-bar clip)
		L230 23,000lm			VBY (2) Y-hangers
					VBY-2 (2) Y-hangers with 2' chains
					HA High ambient operating temperature, 50°C ^[9]

AIRCRAFT CABLES (EXAMPLE: ACFL/D48) ^[10]

Prefix	Type	Length
ACFL/ Feeder	D 1" grid & hardpan	24 24"
ACJL/ Joiner	N 9/16" grid	48 48"
	S Slot grid	96 96"

CONTROL ^[11]

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

–	None
AVI-LVFA	Avi-on wireless fixture control ^[12]
AVI-LVFA-PIR-ELB	Avi-on wireless fixture control with PIR motion and daylight sensor, end mount ^[13]
AWNRR	Lutron Athena wireless node integral fixture control, RF only ^[14]

DRIVER

See page 3 for **ADDITIONAL DRIVER OPTIONS**.

DIM	Driver with external dimming wires
DRV	Driver without external dimming wires
DA	Driver with 12V auxiliary power, without external dimming wires ^[15]
DSR	Sensor-ready driver without external dimming wires (D4i DALI-2). ^[16]

VOLTAGE

120	120V
277	277V
UNV	120-277V
480	480V with stepdown transformer ^[17]

NOTES

- For actual length, see page 2 for **FIXTURE DETAILS**
- Lumen output based on 80 CRI/4000K CCT. Actual performance may vary +/-5%, see page 2 for **FIXTURE PERFORMANCE DATA**. Additional lumen packages available, see options. See page 3 for **FINISH OPTIONS**. Custom colors available upon request. See page 2 for **MOUNTING DETAILS**. See page 3 for **SPECIAL REFLECTOR OPTIONS**.
- Extended lead times may apply. Consult factory for availability.
- Specify in increments of 100 nominal lumens. Option must be specified with next higher lumen package.
- See page 3 for **QUICK-CONNECT OPTIONS**.
- Two stem sets required. One additional stem set required for each row mounted fixture.
- Two stem sets required. One additional stem set required for each row mounted fixture.

- L77 max for 4', L154 max for 8'. Not available with EM batteries.
- VBY hanger(s) included. Units specified with aircraft cable require cord. See page 2 for **MOUNTING DETAILS**.
- See page 3 for **SENSOR & NODE PLACEMENT DETAILS**. See page 4 for **AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS**.
- DA Driver only.
- DA Driver only.
- DA and DSR Drivers only.
- Avi-on and Lutron Athena Controls only.
- Lutron Athena Controls only.
- Not available with EM batteries, DA, or DSR drivers.



FIXTURE PERFORMANCE DATA

	LED PACKAGE	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
4'	L32	3263	21.3	153
	L53	5414	33.7	161
	L77	7757	52.6	147
	L115	11514	76.1	151
8'	L64	6657	42.3	157
	L106	10656	67.1	159
	L154	15513	102.5	151
	L230	23028	152.2	151

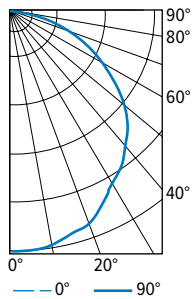
MULTIPLIER TABLE

	COLOR TEMPERATURE	
	CCT	CONVERSION FACTOR
80 CRI	2700K	0.94
	3000K	0.96
	3500K	0.97
	4000K	1.00
	5000K	1.03
90 CRI	2700K	0.77
	3000K	0.79
	3500K	0.80
	4000K	0.83
	5000K	0.86

- Photometrics tested in accordance with IESNA LM-79. Results based on 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 table to calculate additional options.

PHOTOMETRY

76-4-L53/840-DIM Total Luminaire Output: 5414 lumens; 33.7 Watts | Efficacy: 160.7 lm/W | 80 CRI; 3500K CCT

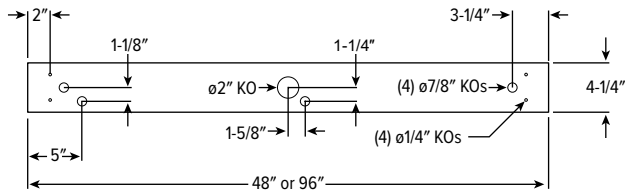


CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
		0°	45°	90°	
	0	1866	1866	1866	
	5	1872	1870	1870	178
	15	1793	1791	1790	508
	25	1666	1661	1660	769
	35	1504	1498	1491	934
	45	1311	1302	1300	994
	55	1011	998	992	891
	65	707	697	670	679
	75	358	333	333	367
	85	79	73	73	96
	90	4	16	18	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	1454	27
	0 - 40	2388	44
	0 - 60	4273	79
	0 - 90	5414	100
	0 - 180	5414	100

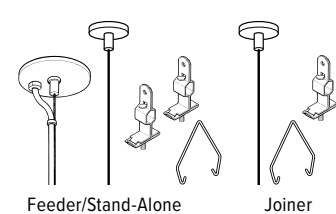
FIXTURE DETAILS

BACKVIEW



MOUNTING DETAILS

STANDARD HARDWARE FOR SUSPENDED PRODUCT (Grid and Hardpan)



Notes:

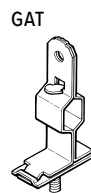
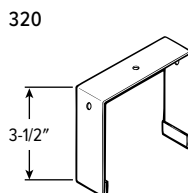
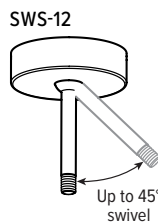
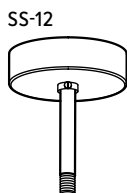
- Fixtures are provided with adjustable length aircraft cables, (2) VBY hangers and mounting hardware, must specify.
- Electrical supply is brought into the feeder fixture, either as part of a row or as a stand-alone unit. Joiner fixtures complete the row.
- The feeder kits are standard with a 5" canopy to cover the junction box and a 2" canopy at the non-feed point. No J-box is required at non-feed points.

CORD FOR SUSPENDED PRODUCT

Units specified with aircraft cable require cord. Please specify cord type using ordering information below. Long fixture rows may require multiple feed points based on 18ga conductor size.

EXAMPLE: S2438D/W				
CORD TYPE	LENGTH	# OF COND. ⁽¹⁾	WIRE SIZE	COLOR
S	24 24"	3	8D 18ga	/W White /B Black
	48 48"	4		
	96 96"	5		

¹ Includes (2) 22ga purple & pink dimming conductors



H.E. Williams, Inc.

Carthage, Missouri

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Designed and Manufactured in the USA

Information contained herein is subject to change without notice.

REV.01/10/24.JL

SPECIAL REFLECTOR OPTIONS

R1015

R1172

R1324

R1684

Clear polycarbonate reflector aligners for continuous row applications are supplied with reflectors.

QUICK-CONNECT OPTIONS

Note: Quick-connect wiring required for row mounting. All QC harnesses contain (5) 16ga conductors plus ground.

DESIGNATION	NUMBER OF 16GA WIRES FACTORY CONNECTED (EXCLUDING GROUND)	WIRE COLOR/POWER SUPPLY FACTORY CONNECTIONS	TYPICAL USE
QCBW	2	Black, White	On/off switching (DRV) or line voltage dimming (DIM LINE)
QCRW	2	Red, White	Alternating circuits on/off switching (DRV) or line voltage dimming (DIM LINE)
QCBRW	3	Black, Red, White	On/off switching (DRV) or line voltage dimming when equipped with EM battery packs
QCBW/PK	4	Black, White, Purple, Pink	Single circuit with 0-10V low voltage dimming (DIM)
QCRW/PK	4	Red, White, Purple, Pink	Alternating circuits on/off switching with 0-10V low voltage dimming (DIM)
QCBRW/PK	5	Black, Red, White, Purple, Pink	On/off switching when equipped with EM battery packs and 0-10V dimming (DIM)
QCBW/RPK	5	Black, White, Red, Purple, Pink	On/off switching with 0-10v dimming and 0-10v tunable using shared common
QCUU	N/A	N/A	QC harness passes through fixture, but is not connected to it

FINISH OPTIONS

WHITE

BLACK

BRONZE

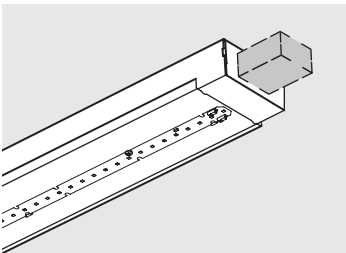
NICKEL

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 & NODE PLACEMENT DETAILS



ADDITIONAL DRIVER OPTIONS

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

CATALOG NUMBER	DESCRIPTION
DRV	Driver prewired for non-dimming applications
DIM	Dimming driver prewired for 0-10V low voltage applications
DIM1	1% dimming driver 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
DSR	Sensor-ready driver (D4i DALI-2)
SD40	40% step-dimming driver
SD50	50% step-dimming driver
DALI	DALI dimming driver
LDE1	Lutron Hi-lume 1% EcoSystem dimming LED driver

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

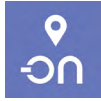
- Optional cloud connectivity
- UL IoT platinum security rating
- DLC 5.0 compliant

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

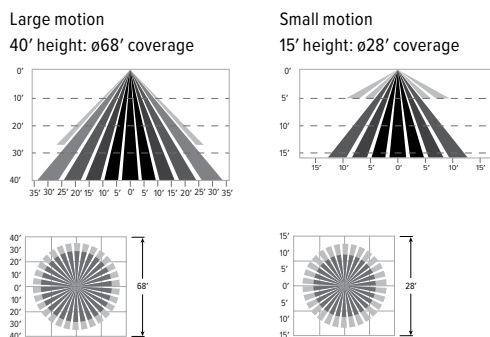
NETWORK	
AVI-RAB-LTE	Remote access bridge
AVI-KIT-NTM	Network time manager with battery backup
CEILING MOUNT SENSORS	
AVI-KIT-SEN-DUCM	PIR motion and ultrasonic sensor kit
AVI-KIT-SEN-ICM	PIR motion and photocell sensor kit

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



SENSOR DETAIL



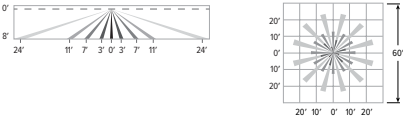
ADDITIONAL CONTROL OPTIONS

OCCWS-FSP-311B-L_-120/277 Wattstopper PIR motion and daylight sensor, 120/277V. Must specify lens: L2, L3, or L7

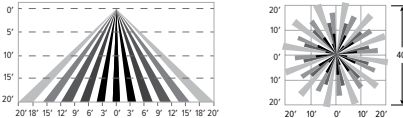
SPECIFICATIONS	
TYPE	PIR Motion + Daylight
MOUNTING HEIGHT	8' – 40'
DETECTION ANGLE	360°
TEMPERATURE RANGE	-40° to 75°C
COMMISSIONING	App (iOS or Android)

SENSOR COVERAGE PATTERNS

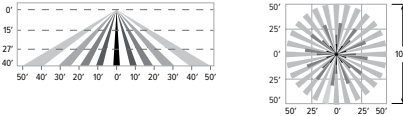
L2 8' height: ø48' coverage



L3 20' height: ø40' coverage



L7 40' height: ø100' coverage



SENSOR DETAIL

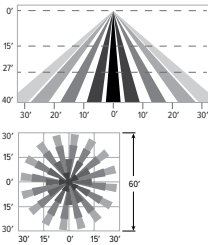


OCCLV-OSFHU-ITW-120-347 Leviton PIR motion sensor, 120-347V.

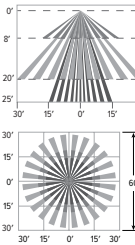
SPECIFICATIONS	
TYPE	PIR Motion
MOUNTING HEIGHT	8' – 40'
LENS	Interchangeable high bay, low bay or aisle mask
DETECTION ANGLE	360°
TEMPERATURE RANGE	-10° to 71°C
RELATIVE HUMIDITY	20% to 90% non-condensing

SENSOR COVERAGE PATTERNS

High bay
40' height: ø60' coverage



Low bay
25' height: ø60' coverage



SENSOR DETAIL



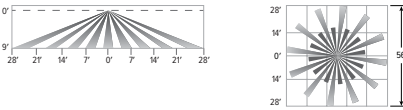
OCCSS LSXR-10-120-277 Sensor Switch PIR motion sensor, 120-277V

OCCSS LSXR-10-347/480 Sensor Switch PIR motion sensor, 347/480V

SPECIFICATIONS	
TYPE	PIR Motion
MOUNTING HEIGHT	7' – 15'
DETECTION ANGLE	360°
TEMPERATURE RANGE	-10° to 60°C
RELATIVE HUMIDITY	Up to 90% non-condensing

SENSOR COVERAGE PATTERNS

9' height: ø56' coverage



SENSOR DETAIL

