

CATALOG #: _____

Type: _____

PROJECT: _____

FEATURES

- For light industrial applications and low to medium mounting heights
- Diverse selection of mounting accessories for surface and suspended applications
- One quarter-turn fastener secures reflector and housing
- Channel connector furnished for continuous row applications (8' only)
- High-performance up to 164 lm/W
- Optional wireguard provides added protection
- Available with Avi-on wireless fixture controls
- Made Right Here® in the USA



ORDERING EXAMPLE: 80 - 4 - L53/840 - OPTIONS - CONTROL/DIM - UNV

ORDERING INFO

SERIES	LENGTH	LUMENS ^[1]	CRI	CCT	OPTIONS ^[2]
80	4 4'	4'	8 80	27 2700K	EM/10W 10-watt emergency battery
	8 8'	L32 3,200lm	9 90 ^[5]	30 3000K	(L___) Additional lower lumen packages available. Example: 4,000 lumens = 80-4-L53/840-(L40) ^[6]
		L53 5,300lm		35 3500K	QC___ Quick-connect wiring harness. ^[7]
	L77 7,700lm	40 4000K	WG-8011 11-gauge white powder coat wireguard		
	L115 11,500lm ^[3]	50 5000K	WG-8014 14-gauge white powder coat wireguard		
	8'	L65 6,500lm		RA-80 Steel reflector row aligner ^[8]	
		L106 10,600lm		SS-12 Single stem and canopy, 12" ^[9]	
		L154 15,400lm		SWS-12 Swivel stem and canopy, 12" ^[10]	
		L230 23,000lm ^[4]		320 1-1/2" ceiling spacer	
				GAT GAT fastener ^[11]	
			VBY (2) Y-hangers		
			VBY-2 (2) Y-hangers and (2) 2' chains		

AIRCRAFT CABLES (EXAMPLE: ACFL/D48) ^[12]

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

SPECIFICATIONS

- HOUSING OR REFLECTOR** – 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. 40°C maximum ambient operating temperature. See fixture performance data for lumen maintenance.
- MOUNTING** – Surface or suspended.
- 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.

CONTROL ^[13]

–	None
AVI-LVFA	Avi-on wireless fixture control ^[15]
AVI-LVFA-PIR-ELB	Avi-on wireless fixture control with PIR motion and daylight sensor, end mount ^[16]

DRIVER ^[14]

DIM	Driver with external dimming wires	120 120V
		277 277V
DRV	Driver without external dimming wires	UNV 120-277V
		347 347V ^[18]
DA	Driver with 12V auxiliary power, without external dimming wires ^[17]	480 480V with stepdown transformer ^[19]

VOLTAGE



NOTES

- Lumen output based on 4000 CCT. Actual lumens may vary +/-5%. See page 2 for FIXTURE PERFORMANCE DATA.
- See page 3 for MOUNTING DETAILS.
- 25°C maximum ambient operating temperature when specified with EM battery.
- 25°C maximum ambient operating temperature when specified with EM battery.
- 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 2 for QUICK-CONNECT OPTIONS.
- 1 pair.
- Two stem sets required. One additional stem set required for each row mounted fixture.
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- T-bar clip.
- VBV hanger(s) included. Units specified with aircraft cable require cord. See page 3 for MOUNTING DETAILS.
- See page 5 for ADDITIONAL CONTROL OPTIONS. See page 3 for SENSOR PLACEMENT DETAILS. See page 4 for AVI-ON BLUETOOTH WIRELESS CONTROL DETAILS.
- See page 5 for ADDITIONAL DRIVER OPTIONS.
- DA Driver only.
- DA Driver only.
- Avi-on Controls only.
- Not available with EM batteries or Avi-on Controls.
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FIXTURE PERFORMANCE DATA

	LED PACKAGE	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)	LUMEN MAINTENANCE		
					L80	L85	L90
4'	L32	3,331	20.3	164	72,000	72,000	50,000
	L53	5,327	34.2	156	72,000	72,000	50,000
	L77	7,780	51.4	151	—	58,000	36,000
	L115	11,512	73.1	157	—	58,000	36,000
8'	L65	6,663	40.5	165	72,000	72,000	50,000
	L106	10,654	66.4	160	72,000	72,000	50,000
	L154	15,411	100.2	154	—	58,000	36,000
	L230	23,024	146.1	158	—	58,000	36,000

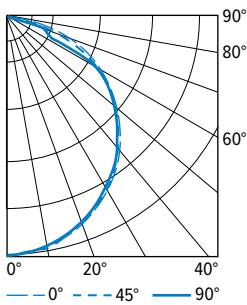
MULTIPLIER TABLE

	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 shown are based on 25°C ambient temperature.
- Wattage shown is average for 120V through 277V input.
- Results based on 4000K, 80 CRI, actual lumens may vary +/-5%
- Predicted lumen maintenance calculated from LED manufacturer IES LM-80 data and In situ temperature measurement.
- Predicted calculated in accordance with IES TM-21 per Energy Star (R) TM-21 Calculator rev. 02.08.16.
- To calculate lumen output in emergency mode, multiply the battery wattage by the efficacy.
- Use multiplier table to calculate additional options.

PHOTOMETRY

80-4-L53-840-DIM-UNV Total Luminaire Output: 5327 lumens; 34.2 Watts | Efficacy: 156 lm/W | 80 CRI; 4000K CCT



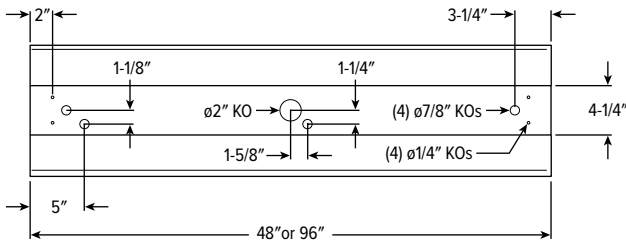
CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
		0°	45°	90°	
	0	2002	2002	2002	
	5	1978	1965	1981	188
	15	1893	1891	1876	535
	25	1762	1742	1737	806
	35	1568	1541	1536	967
	45	1330	1298	1294	1004
	55	1040	1017	1012	908
	65	730	713	381	632
	75	359	200	38	254
	85	54	24	18	35
	90	0	0	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	1528	29
	0 - 40	2495	47
	0 - 60	4407	83
	0 - 90	5327	100
	0 - 180	5327	100

FIXTURE DETAILS

BACKVIEW

8' fixture uses (2) 4' reflectors



QUICK-CONNECT OPTIONS

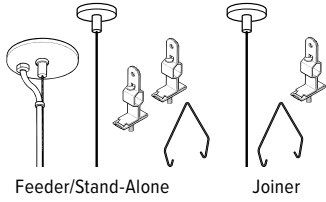
Note: Quick-connect wiring required for row mounting. All QC harnesses contain (5) 16ga conductors plus ground.

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



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.

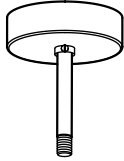
CORD FOR SUSPENDED PRODUCT

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.

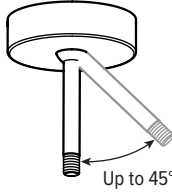
EXAMPLE: S2438D/W				
CORD TYPE	LENGTH	# OF COND. ⁽¹⁾	WIRE SIZE	COLOR
S	24 24"	3	8D 18ga	/W White
	48 48"	4		/B Black
	96 96"	5		
		6		

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

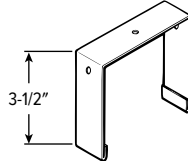
SS-12



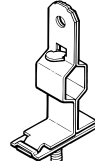
SWS-12



320



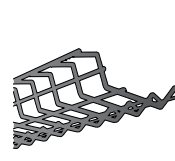
GAT



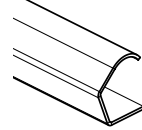
VBY OR VBY-2



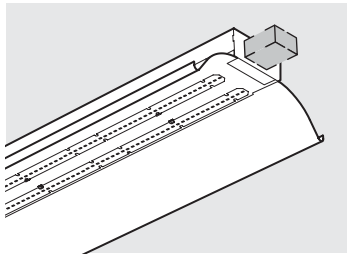
WG-8011 OR WG-8014



RA-80



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

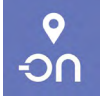
- Optional cloud connectivity
- UL IoT platinum security rating
- DLC 5.0 compliant

DIGITAL INSTALLATION TOOLS

Avi-On mobile apps provide intuitive, quick installation and commissioning. Pro tools are available to qualified installers.



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 – LTE connection
AVI-2001RAB-01-C	Remote access bridge – Wifi connection
AVI-KIT-NTM	Network time manager with battery backup

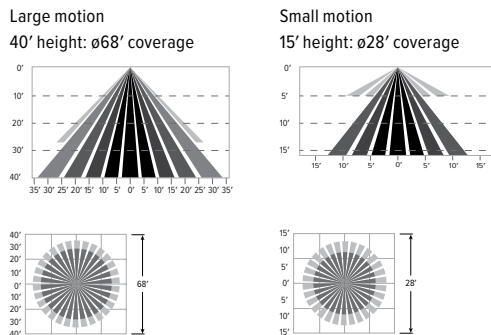
CEILING MOUNT SENSORS	
AVI-KIT-SEN-DUCM	PIR motion and ultrasonic sensor kit
AVI-KIT-SEN-ICM	PIR motion and photocell sensor kit

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



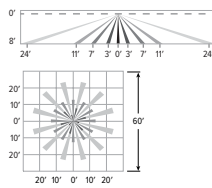
ADDITIONAL CONTROL OPTIONS

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

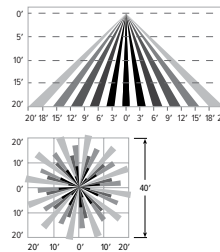
SPECIFICATIONS	
TYPE	PIR Motion + Daylight
MOUNTING HEIGHT	8' – 20'
DETECTION ANGLE	360°
TEMPERATURE RANGE	-40° to 75°C
COMMISSIONING	App (iOS or Android)

SENSOR COVERAGE PATTERNS

L2 8' height: ø48' coverage



L3 20' height: ø40' coverage



SENSOR DETAIL

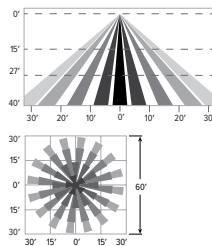


OCCLV-OSFHU-ITW-120-347 Leviton PIR motion sensor, 120-347V.

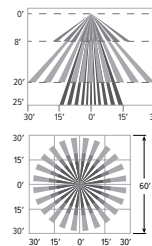
SPECIFICATIONS	
TYPE	PIR Motion
MOUNTING HEIGHT	8' – 40'
LENS	Interchangeable high bay, low bay or aisle mask
DETECTION ANGLE	360°
TEMPERATURE RANGE	-10° to 71°C
RELATIVE HUMIDITY	20% to 90% non-condensing

SENSOR COVERAGE PATTERNS

High bay 40' height: ø60' coverage



Low bay 25' height: ø60' coverage



SENSOR DETAIL



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	Dimming driver with 12V auxiliary
SD40	40% step-dimming driver
SD50	50% step-dimming driver
DALI	DALI dimming driver
LDE1	Lutron Hi-lume 1% EcoSystem dimming LED driver

