

CATALOG #: \_\_\_\_\_

TYPE: \_\_\_\_\_

PROJECT: \_\_\_\_\_

## FEATURES

- Available with Avi-on wireless fixture controls
- For light industrial applications and low to medium mounting heights
- Diffuse acrylic lens enhances uniformity and minimizes glare
- Maximize energy savings with efficacies as high as 147 lm/W
- Diverse selection of mounting accessories for surface and suspended applications
- Channel connector furnished for continuous row applications (included with 8' units only)
- 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.
- SHIELDING – Linear ribbed diffuse acrylic
- ELECTRICAL – High quality mid-power LED boards. L70 at 60,000 hours. L85 at 60,000 hours. L90 at 46,000 hours. 40°C maximum ambient operating temperature.
- MOUNTING – Surface (ceiling or wall) or suspended (hanging hardware required).
- LISTINGS –
  - cCSAus certified as luminaire suitable for dry or damp location.
- WARRANTY – 5-year limited warranty, see [hew.com/warranty](http://hew.com/warranty).



## ORDERING EXAMPLE: 80R - 4 - L52/840 - OPTIONS - CONTROL - DIM - UNV

### ORDERING INFO

SERIES	LENGTH <sup>[1]</sup>	LUMENS <sup>[2]</sup>	CRI	CCT
80R	4 4'	4'	8 80	27 2700K
	8 8' <sup>[3]</sup>	L30 3,000lm L52 5,200lm L72 7,200lm L85 8,500lm <sup>[4]</sup>	9 90 <sup>[6]</sup>	30 3000K 35 3500K 40 4000K 50 5000K
	8'	L60 6,000lm L104 10,400lm L144 14,400lm L170 17,000lm <sup>[5]</sup>		

### OPTIONS <sup>[7]</sup>

EM/10W (L__)	10-watt emergency battery <sup>[8]</sup> Additional lower lumen packages available. <sup>[9]</sup> Example: 4,000 nominal lumens = 80R-4-L52/840-(L40)
WG-80R11	11-gauge white powder coat wireguard
WG-80R14	14-gauge white powder coat wireguard
SS-12	Single stem and canopy, 12"
SWS-12	Swivel stem and canopy, 12"
GAT	GAT fastener (T-bar clip)

VBY	(2) Y-hangers
VBY-2	(2) Y-hangers and (2) 2' chains
SMH-76R	Surface mount hanger
SHS-76R	Surface mount hanger for grid ceilings
RA-80	Steel reflector row aligner <sup>[10]</sup>

### AIRCRAFT CABLES (EXAMPLE: ACFL/D48) <sup>[11]</sup>

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 <sup>[12]</sup>

-	None
AVI-LVFA	Avi-on wireless fixture control <sup>[14]</sup>
AVI-LVFA-PIR-ELB	Avi-on wireless fixture control with PIR motion and daylight sensor, end mount <sup>[15]</sup>
LV-OSFHU-ITW-120-347	Leviton PIR motion sensor, 120-347V
WS-FSP-311B-L_-120/277	Wattstopper PIR motion and daylight sensor, 120/277V <sup>[16]</sup>

### DRIVER <sup>[13]</sup>

DRIVER	VOLTAGE
DIM Driver with external dimming wires	120 120V
DRV Driver without external dimming wires	277 277V
UNV	120-277V
DA Driver with 12V auxiliary power, without external dimming wires <sup>[17]</sup>	347 347V <sup>[18]</sup> 480 480V <sup>[19]</sup>

## NOTES

- For actual length, see page 4 for FIXTURE DETAILS
- Lumen output based on 4000 CCT. Actual lumens may vary +/-5%, see page 2 for FIXTURE PERFORMANCE DATA.
- Ships with (2) 4' lenses.
- 30°C maximum ambient operating temperature.
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- Extended lead times may apply. Consult factory for availability.
- See page 4 for MOUNTING DETAILS. See page 5 for QUICK CONNECT OPTIONS.
- 30° maximum ambient operating temperature.
- Specify in increments of 100 nominal lumens. Option must be specified with next higher lumen package.

- 1 pair.
- VBY hanger(s) included. Units specified with aircraft cable require cord. See page 4 for MOUNTING DETAILS.
- See page 3 for CONTROL DETAILS.
- See page 4 for ADDITIONAL DRIVER OPTIONS.
- DA Driver only. SDT required when specified with 347V or 480V.
- DA Driver only. SDT required when specified with 347V or 480V.
- Must specify lens: L2 or L3.
- Avi-on Controls only.
- Not available with EM batteries.
- With stepdown transformer. Not available with EM batteries



## FIXTURE PERFORMANCE DATA

	LED PACKAGE	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
4'	L30	3,031	20.5	147.9
	L52	5,224	37.6	139.1
	L72	7,291	54.3	134.2
	L85	8,563	65.5	130.8
8'	L60	6,062	41.3	147.0
	L104	10,447	73.4	142.4
	L144	14,583	108.6	134.3
	L170	17,126	131.0	130.8

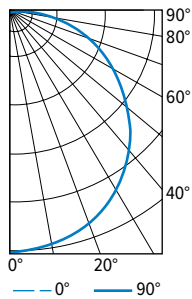
- Photometrics tested in accordance with IESNA LM-79. Results shown are based on 25°C ambient temperature.
- Wattage shown is average for 120V through 277V input.
- Results based on 4000K, 80 CRI, actual lumens may vary +/-5%
- Use multiplier table to calculate additional options.

## 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

## PHOTOMETRY

80R-4-L85/840 Total Luminaire Output: 8563 lumens; 65.5 Watts | Efficacy: 131 lm/W



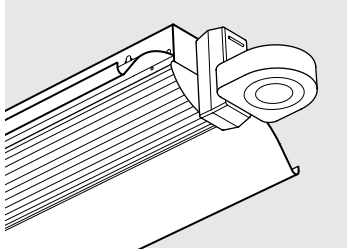
VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
	0°	45°	90°	
0	2930	2930	2930	
5	2953	2907	2904	277
15	2811	2799	2821	790
25	2526	2583	2646	1189
35	2121	2278	2395	1416
45	1648	1868	2048	1441
55	1176	1450	1671	1290
65	734	1039	1242	1010
75	375	689	868	692
85	76	376	485	366
90	2	210	296	
95	0	57	156	88
105	0	6	2	4
115	0	2	1	1
125	0	1	0	0
135	0	0	0	0
145	0	0	0	0
155	0	0	0	0
165	0	0	0	0
175	0	0	0	0
180	0	0	0	0

	ZONE	LUMENS	% FIXTURE
LUMEN SUMMARY	0 - 30	2256	26
	0 - 40	3672	43
	0 - 60	6402	75
	0 - 90	8470	99
	90 - 120	92	1
	90 - 150	93	1
	90 - 180	93	1
	0 - 180	8563	100



## CONTROL DETAILS

### SENSOR PLACEMENT

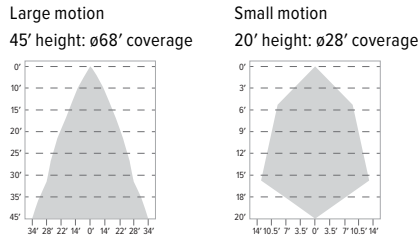


### AVI-LVFA-PIR-ELB

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



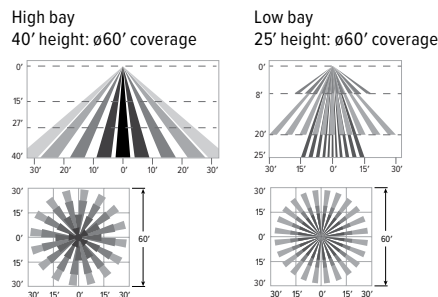
### SENSOR COVERAGE PATTERNS



### LV-OSFHU-ITW-120-347

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
MANUFACTURER	Leviton

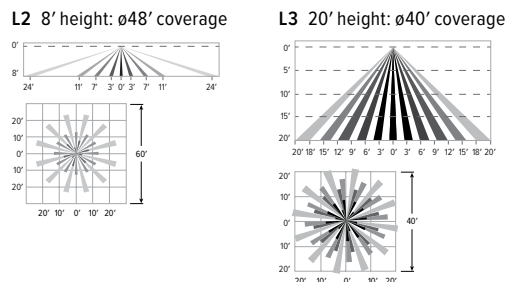
### SENSOR COVERAGE PATTERNS



### WS-FSP-311B-L2-120/277

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

### SENSOR COVERAGE PATTERNS



## ADDITIONAL DRIVER OPTIONS

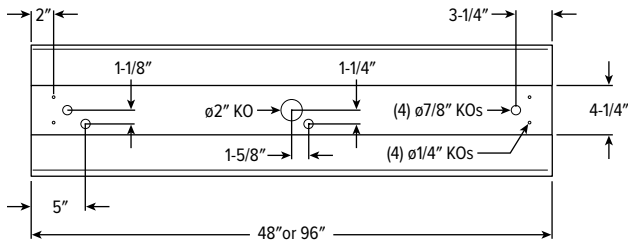
Note: Lumen restrictions apply, consult product builder at [hew.com/product-builder](http://hew.com/product-builder).

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
LTE LINE	Lutron Hi-lume 1% 2-wire dimming driver forward phase line voltage controls (120V only)
LDE1	Lutron Hi-lume 1% EcoSystem dimming LED driver
ELDO SOLOB	EldoLED Solodrive, 0.1% dimming driver for 0-10V controls
ELDO SOLOB DALI	EldoLED Solodrive, 0.1% dimming driver for DALI controls
ELDO ECO1	EldoLED Ecodrive, 1% dimming driver for 0-10V controls
ELDO ECO1 DALI	EldoLED Ecodrive, 1% dimming driver for DALI controls

## FIXTURE DETAILS

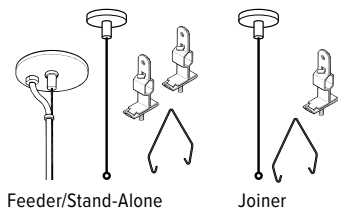
### BACKVIEW

8' fixture uses (4) 4' reflectors.



## MOUNTING DETAILS

### STANDARD HARDWARE FOR SUSPENDED PRODUCT (Grid and Hardpan)



#### Notes:

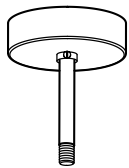
- Fixtures are provided with adjustable length aircraft cables, (2) VBY hangers and mounting hardware, must specify.
- Electrical supply is brought into the feeder fixture, either as part of a row or as a stand-alone unit. Joiner fixtures complete the row.
- The feeder kits are standard with a 5" canopy 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

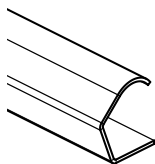
Units specified with aircraft cable require cord. Please specify cord type using ordering information below.

CORD TYPE	EXAMPLE: S2438/W			
	LENGTH	# OF COND.	WIRE SIZE	COLOR
S	24 24"	3	8	/W White
	48 48"	4		/B Black
	96 96"	5		

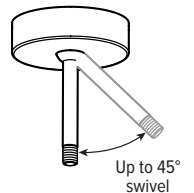
### SS-12



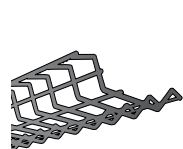
### RA-80



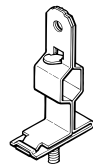
### SWS-12



### WG-8011 OR WG-8014



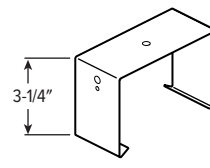
### GAT



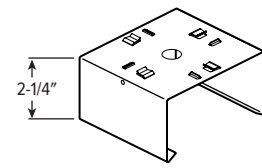
### VBY OR VBY 2



### SMH-76R



### SHS-76



## QUICK CONNECT OPTIONS

Note: Quick connect wiring required for row mounting. Length restrictions may apply, consult product builder at [hew.com/product-builder](http://hew.com/product-builder).

DESIGNATION	NUMBER OF WIRES (EXCLUDING GROUND)	WIRE COLORS	WIRE COLOR/POWER SUPPLY FACTORY CONNECTIONS	TYPICAL USE
C2B	3	White, Black, Red	White, Black	Alternating Circuits
C2BR	3	White, Black, Red	White, Black, Red	ON/OFF Switching (DRV) or Line Voltage dimming (DIM LINE) when equipped w/EM Power Supply (EM/10W)
C2R	3	White, Black, Red	White, Red	Alternating Circuits
C2BW/RV	5	White, Black, Red, Gray, Green	White, Black/Red, Gray	0-10V 4-wire Low Voltage Dimming (DIM)

