

CATALOG #: _____

TYPE: _____

PROJECT: _____

FEATURES

- 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.

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

ORDERING INFO

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

OPTIONS ^[6]

- EM/10W** 10-watt emergency battery ^[8]
- (L__)** Additional lower lumen packages available. ^[9]
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 ^[10]

CONTROL ^[7]

- DIM** Dimming driver
- DRV** Non-dimming driver

VOLTAGE

- 120** 120V
- 277** 277V
- UNV** 120-277V
- 347** 347V ^[15]
- 480** 480V ^[16]

OCCUPANCY SENSOR

- OCCWS FSP-321B-L_-120-480** Factory-installed occupancy and daylight control, 120V-480V, Bluetooth configurable ^[11]
- OCCWS-HBP-111-L7-120/277/347** Factory-installed occupancy and daylight control, 120/277/347 ^[12]
- FSIR-100** Remote controller for occupancy sensor HBP-111. ^[13]

AIRCRAFT CABLES (EXAMPLE: ACFL/D48) ^[14]

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

NOTES

- For actual length, see page 3 for FIXTURE DETAILS
- Lumen output based on 4000 CCT. Actual lumens may vary +/-5%, see page 2 for FIXTURE PERFORMANCE DATA.
- 30°C maximum ambient operating temperature.
- 30°C maximum ambient operating temperature.
- Extended lead times may apply. Consult factory for availability.
- See page 3 for MOUNTING DETAILS. See page 3 for QUICK CONNECT OPTIONS.
- See page 2 for ADDITIONAL CONTROL OPTIONS.
- 30° maximum ambient operating temperature
- Specify in increments of 100 nominal lumens. Option must be specified with next higher lumen package.
- 1 pair.
- Must specify lens: L3 or L7. Adjustable via sensor configuration app.
- Adjustable via remote. Optional FSIR-100 remote controller available, ordered separately.
- Please specify quantity required per project, ships separately.
- VBY hanger(s) included. Units specified with aircraft cable require cord. See page 3 for MOUNTING DETAILS.
- Not available with EM batteries.
- With stepdown transformer. Not available with EM drivers.



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

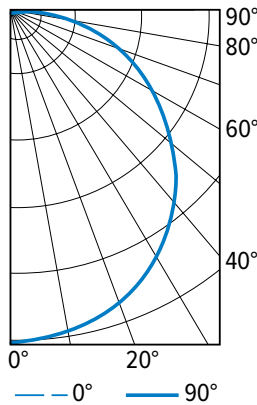
- Photometrics tested in accordance with IESNA LM-79. Results shown are based on 25°C ambient temperature.
- Wattage shown is average for 120V through 277V input.
- Results based on 4000K, 80 CRI, actual lumens may vary +/-5%
- Use multiplier table to calculate additional options.

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

ADDITIONAL CONTROL OPTIONS

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

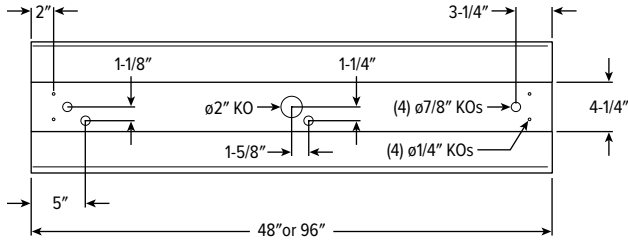
CATALOG NUMBER	DESCRIPTION
DRV	Driver prewired for non-dimming applications
DIM	Dimming driver prewired for 0-10V low voltage applications
DIM1	1% dimming driver prewired for 0-10V low voltage applications
DIM LINE	Line voltage dimming driver (TRIAC and ELV compatible, 120V only)
DIM TRC	Line voltage dimming driver (TRIAC compatible, 120V or 277V only)
DSR	Sensor-ready driver
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
LDE5	Lutron 5-Series 5% EcoSystem dimming LED driver
VDO/DSR	Lutron Vive integral fixture control, RF with daylight and occupancy sensor (DFCSJ-OEM-OCC) and sensor-ready driver
VRF/DSR	Lutron Vive integral fixture control, RF only (DFCSJ-OEM-RF) and sensor-ready driver
VDO/DBI/LDE1	Lutron Vive integral fixture control, RF with daylight and occupancy sensor (DFCSJ-OEM-OCC), Lutron Hi-lume 1% EcoSystem dimming LED driver, and digital link interface
VDO/DBI/LDE5	Lutron Vive integral fixture control, RF with daylight and occupancy sensor (DFCSJ-OEM-OCC), Lutron 5-Series 5% EcoSystem dimming LED driver, and digital link interface
VRF/DBI/LDE1	Lutron Vive integral fixture control, RF only (DFCSJ-OEM-RF), Lutron Hi-lume 1% EcoSystem dimming LED driver, and digital link interface
VRF/DBI/LDE5	Lutron Vive integral fixture control, RF only (DFCSJ-OEM-RF), Lutron 5-Series 5% EcoSystem dimming LED driver, and digital link interface
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

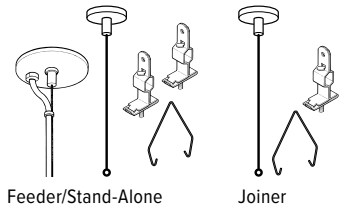
BACKVIEW

8' fixture uses (4) 4' reflectors.



MOUNTING DETAILS

STANDARD HARDWARE FOR SUSPENDED PRODUCT (Grid and Hardpan)



Notes:

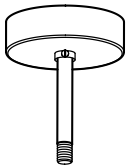
- Fixtures are provided with adjustable length aircraft cables, (2) VBY hangers and mounting hardware, must specify.
- Electrical supply is brought into the feeder fixture, either as part of a row or as a stand-alone unit. Joiner fixtures complete the row.
- The feeder kits are standard with a 5" canopy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

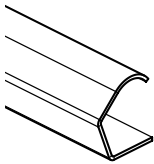
Units specified with aircraft cable require cord. Please specify cord type using ordering information below.

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

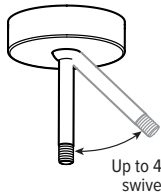
SS-12



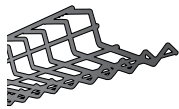
RA-80



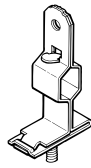
SWS-12



WG-8011 OR WG-8014



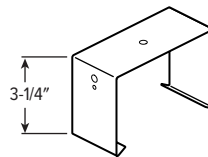
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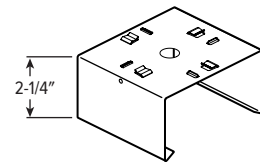
VBY OR VBY 2



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.

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)



SENSOR PLACEMENT DETAILS FOR STRIP FIXTURES

SENSOR PLACEMENT		
CATALOG NUMBER	ENL-SU5/CU4E/CBL OCCLV OSF10-IOW-120 OCCLV OSF10-IUW-PP-120 OCCSS SFR-30-120/277 OCCWS FSP-311-L_-120/277 OCCWS FS-355-L_120/277	OCCLV OSFHU-ITW-120277347 OCCSS CMRB-6-120/277 OCCSS LSXR-610-120/277 OCCWS FSP-321B-L_-120-480 OCCWS-HBP-111-L7-120/277/347 OCCWS-HBP-112-L7-120/277/347
COMPATIBLE FIXTURE	75, 75L, 75R, 75S, 76, 76R, 80, 80R, LLM	75, 75L, 75R, 75S, 76, 76R, 80, 80R

OCCUPANCY SENSOR DETAILS

OCCWS FSP-321B-L_-120-480

FEATURES

- Fully adjustable high and low dimmed light levels.
- Designed for LED fixtures; rated for extreme temperatures and up to 200,000 on/off cycles.
- Hold-off setpoint with automatic calibration option for convenience and added energy savings.
- Adjustable via sensor configuration app.
- IP66 rated with choice of lenses for wet and outdoor locations, and mounting heights from 8' to 20'.
- Adjustable time delay and cutoff delay.
- Factory set to 10% dimming at 5 minutes, cutoff at 1 hour.
- Multi-level control based on motion and/or daylight contribution.
- Universal voltage for 120V – 480V.

SENSOR CONFIGURATION APP

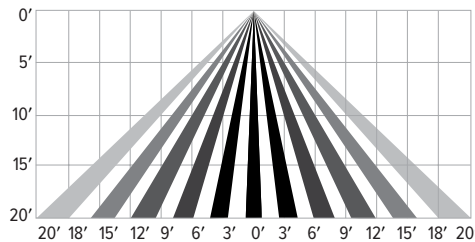
Initial setup and subsequent sensor adjustments are made using the iOS or Android Sensor Configuration App. This app enables adjustment of parameters including high and low modes, sensitivity, time delay, cut off and more. The smartphone app is also used to initiate automatic calibration of the FSP-3x1B ambient light level setpoint. The setpoint is used to hold the controlled lighting off or at low level when there is sufficient daylight. The wireless tool stores an unlimited number of sensor parameter profiles to speed configuration of multiple sensors.

Visit www.wattstopper.com for more information.

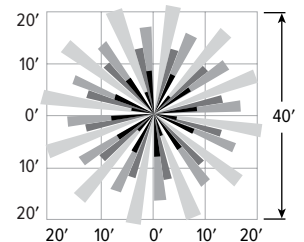
LENS COVERAGE PATTERNS

SIDE VIEW

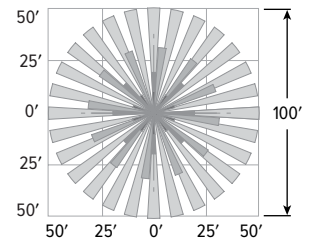
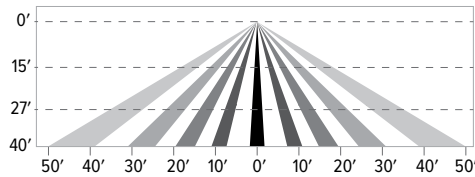
L3 Coverage at 20' mounting height: $\phi 40'$



TOP VIEW



L7 Coverage at 40' mounting height: $\phi 100'$



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

FEATURES

- Single phase line voltage passive infrared (PIR)
- Ships with 360° lens for mounting heights of 15'-40' and optional masking accessory for aisle applications.
- Adjustable time delay (15 seconds to 30 minutes).
- Factory preset to 15 minutes.
- Adjustable via handheld wireless configuration tool (ordered separately).

REMOTE CONTROLLER



FSIR-100 Remote controller for occupancy sensor (specify quantity per project)

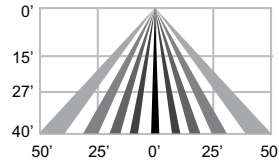
Initial setup and subsequent sensor adjustments are made using a handheld configuration tool (FSIR-100). The wireless tool stores up to five sensor parameter profiles to speed configuration of multiple sensors. Please specify quantity required per project.

Visit www.wattstopper.com for more information.

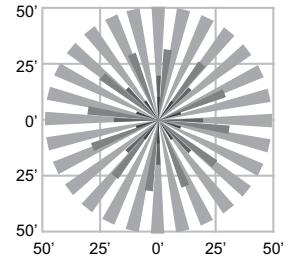
LENS COVERAGE PATTERNS

SIDE VIEW

L7 Coverage at 40' mounting height: ø100'



TOP VIEW



L7 Lens with Mask

