

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)
- Maximize energy savings with efficacies up to 164 lm/W
- Made Right Here® in the USA

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. 80°C maximum ambient operating temperature.
- MOUNTING** – Surface or suspended.
- LISTINGS** –
 - cCSAus certified as luminaire suitable for dry or damp locations.
- WARRANTY** – 5-year limited warranty, see hew.com/warranty.

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

ORDERING INFO

| SERIES | LENGTH | LUMENS ^[1] | CRI | CCT | OPTIONS |
|--------|-------------|------------------------------|------------------------------|---|---|
| 80 | 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. Example: 4,000 lumens = 80-4-L53/840-(L40) ^[5] |
| | | L53 5,300lm | | 35 3500K | WG-8011 11-gauge white powder coat wireguard |
| | L77 7,700lm | L115 11,500lm ^[2] | 40 4000K | WG-8014 14-gauge white powder coat wireguard | |
| | 8' | L65 6,500lm | L106 10,600lm | 50 5000K | RA-80 Steel reflector row aligner ^[6] |
| | | L106 10,600lm | L154 15,400lm | | SS-12 Single stem and canopy, 12" |
| | | L154 15,400lm | L230 23,000lm ^[3] | | SWS-12 Swivel stem and canopy, 12" |
| | | L230 23,000lm ^[3] | | | 320 1-1/2" ceiling spacer |
| | | | | | GAT GAT fastener ^[7] |
| | | | | | VBY (2) Y-hangers |
| | | | | VBY-2 (2) Y-hangers and (2) 2' chains | |

OCCUPANCY SENSOR

| | |
|-------------------------------------|--|
| OCCWS-FSP-321B-L_-120-480 | Factory-installed occupancy and daylight control, 120V-480V, Bluetooth configurable ^[8] |
| OCCWS-HBP-111-L7-120/277/347 | Factory-installed occupancy and daylight control, 120/277/347 ^[9] |
| FSIR-100 | Remote controller for occupancy sensor HBP-111. ^[10] |

AIRCRAFT CABLES (EXAMPLE: ACFL/D48) ^[11]

| 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 ^[12] | VOLTAGE |
|-------------------------------|--------------------------|
| DIM Dimming driver | 120 120V |
| DRV Non-dimming driver | 277 277V |
| | UNV 120-277V |
| | 347 347V ^[13] |
| | 480 480V ^[14] |

NOTES

- Lumen output based on 4000 CCT. Actual lumens may vary +/-5%. See page 2 for FIXTURE PERFORMANCE DATA.
- 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.
- 1 pair.
- T-bar clip.
- 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.
- See page 3 for ADDITIONAL CONTROL OPTIONS.
- 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' | L32 | 3,331 | 20.3 | 163.8 |
| | L53 | 5,327 | 34.2 | 155.9 |
| | L77 | 7,780 | 51.4 | 151.4 |
| | L115 | 11,512 | 73.1 | 157.6 |
| 8' | L65 | 6,663 | 40.5 | 164.6 |
| | L106 | 10,654 | 66.4 | 160.4 |
| | L154 | 15,411 | 100.2 | 153.7 |
| | L230 | 23,024 | 146.1 | 157.6 |

LUMEN MAINTENANCE

| | LUMEN PACKAGE | REPORTED HOURS (TM-21) | | |
|----|---------------|------------------------|--------|--------|
| | | L80 | L85 | L90 |
| 4' | L32 | 72,000 | 72,000 | 50,000 |
| | L53 | 72,000 | 72,000 | 50,000 |
| | L77 | — | 58,000 | 36,000 |
| | L115 | — | 58,000 | 36,000 |
| 8' | L65 | 72,000 | 72,000 | 50,000 |
| | L106 | 72,000 | 72,000 | 50,000 |
| | L154 | — | 58,000 | 36,000 |
| | L230 | — | 58,000 | 36,000 |

- 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.

MULTIPLIER TABLE

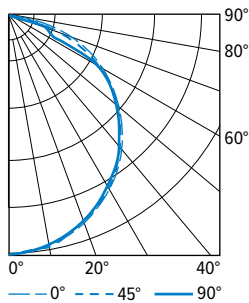
| COLOR TEMPERATURE | |
|-------------------|-------------------|
| CCT | CONVERSION FACTOR |
| 2700K | 0.94 |
| 3000K | 0.96 |
| 3500K | 0.97 |
| 4000K | 1.00 |
| 5000K | 1.03 |

| 80 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%
- 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 |



ADDITIONAL CONTROL OPTIONS

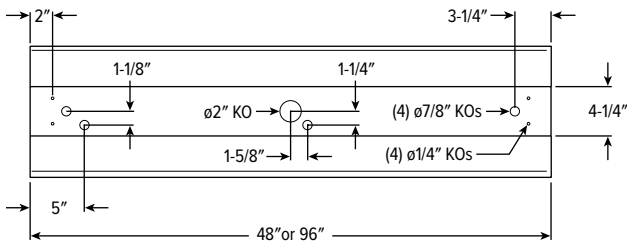
Note: Lumen restrictions apply, consult product builder at hew.com/product-builder.

| 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

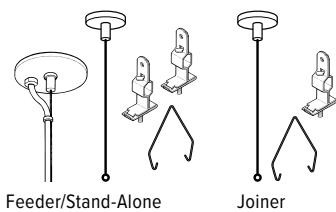
BACKVIEW

8' fixture uses (2) 4' reflectors



MOUNTING DETAILS

STANDARD HARDWARE FOR SUSPENDED PRODUCT (Grid and Hardpan)



Notes:

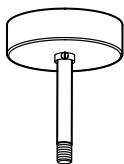
- Fixtures are provided with adjustable length aircraft cables, (2) VBY hangers and mounting hardware, must specify.
- Electrical supply is brought into the feeder fixture, either as part of a row or as a stand-alone unit. Joiner fixtures complete the row.
- The feeder kits are standard with a 5" canopy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

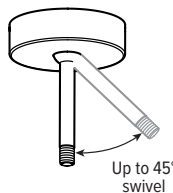
Units specified with aircraft cable require cord. Please specify cord type using ordering information below.

| 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 | | |

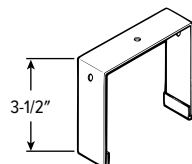
SS-12



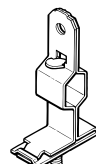
SWS-12



320



GAT



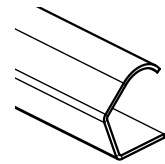
VBY OR VBY-2



WG-8011 OR WG-8014



RA-80



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/R | 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

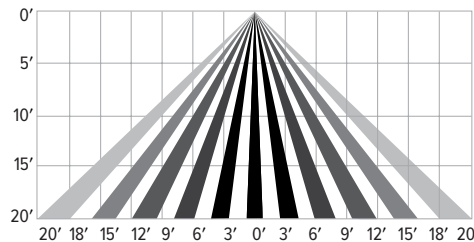
Initial setup and subsequent sensor adjustments are made using the iOS or Android Sensor Configuration App. This app enables adjustment of parameters including high and low modes, sensitivity, time delay, cut off and more. The smartphone app is also used to initiate automatic calibration of the FSP-3x1B 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.

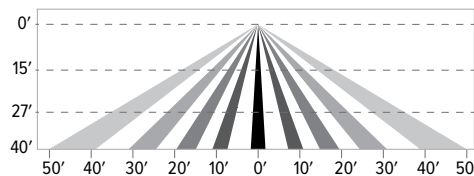
LENS COVERAGE PATTERNS

SIDE VIEW

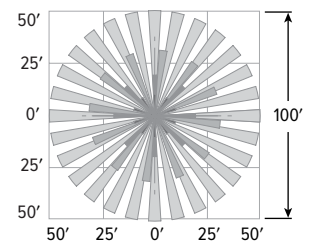
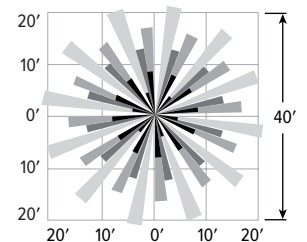
L3 Coverage at 20' mounting height: $\phi 40'$



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



TOP VIEW



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)

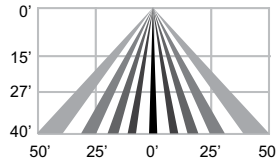
Initial setup and subsequent sensor adjustments are made using a handheld configuration tool (FSIR-100). The wireless tool stores up to five sensor parameter profiles to speed configuration of multiple sensors. Please specify quantity required per project.

Visit www.wattstopper.com for more information.

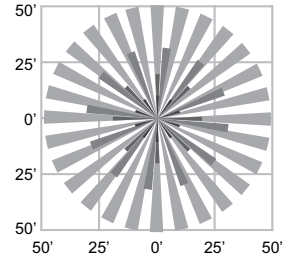
LENS COVERAGE PATTERNS

SIDE VIEW

L7 Coverage at 40' mounting height: ø100'



TOP VIEW



L7 Lens with Mask

