

CATALOG #: _____

TYPE: _____

PROJECT: _____



FEATURES

- Fully gasketed fixture is built tough to resist contaminants
- Standard stainless steel latches protect the fixture from corrosion in harsh environments
- Toggle latches ensure a tight seal and provide easy access to electrical components.
- Tamper-resistant latches available
- Closed-cell polyurethane gasket poured and formed in place to ensure tight seal—does not absorb water or support fungal growth
- NSF/ANSI Standard 2—Splash Zone certified
- IP65, IP66, and IP67 certified
- High-performance up to 137 lm/W
- Made Right Here® in the USA

SPECIFICATIONS

- ENCLOSURE** – Outer housing consists of 5VA (ft) fiberglass, rated for flame and weather resistance.
- INTERNAL HOUSING** – .050" aluminum.
- LATCHING** – Stainless steel latches. Injection-molded polycarbonate latches available (not recommended for use in harsh environments, such as a car wash).
- REFLECTOR** – 92% minimum average reflective white polyester powder coat bonded to phosphate-free, multi-stage pretreated metal.
- SHIELDING** – Frosted, ribbed, impact-resistant acrylic.
- ELECTRICAL** – High-quality mid-power LED board. L70 >50,000 hours. -20°C to 40°C maximum ambient operating temperature (restrictions apply, see Performance Data for details). -40°C minimum operating temperature with LA40 option.
- MOUNTING** – Surface or suspended. Stainless steel ceiling mount brackets included. Wall mount when specified with WMB.
- LISTINGS** –
 - cETLus conforms to UL STD 1598 and UL STD 8750. Certified to CAN/CSA STD C22.2 No. 250.0. Suitable for wet locations when specified with watertight hub, STOW or SOOW cord, or mini-male receptacle option.
 - NSF/ANSI Standard 2—Splash Zone certified, IP65, IP66, and IP67 certified, and rated for NEMA 4X.
 - 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: 96 - 4 - L62/840 - HIAFR - OPTIONS - CONTROL/DRV - UNV

ORDERING INFO

| SERIES | LENGTH | LUMENS ^[1] | CRI | CCT | SHIELDING |
|--------|---------------------|-----------------------|---------------|------------------------------|--|
| 96 | 2 2' | 2' | 8 80 | 30 3000K | HIAFR Frosted, ribbed, impact-resistant acrylic |
| | 4 4' | L21 2,100lm | L80 8,000lm | 9 90 ^[3] 35 3500K | PCFR Frosted, ribbed, UV stabilized polycarbonate ^[4] |
| | 8 8' ^[2] | L29 2,900lm | L130 13,000lm | 40 4000K | |
| | | 4' | L160 16,000lm | 50 5000K | DFR Drop, frosted, impact-resistant acrylic |
| | | L40 4,000lm | L220 22,000lm | | DCL Drop, clear, impact-resistant acrylic with frosted ends |
| | | L62 6,200lm | | | |
| | | L81 8,100lm | | | |
| | | L110 11,000lm | | | |

| OPTIONS ^[5] | CONTROL | DRIVER | VOLTAGE |
|---|--|--|--------------------------|
| EM/6WC 6-watt emergency, low temperature battery ^[6] | See page 4 for Additional Control Options. ^[17] | See page 4 for ADDITIONAL DRIVER OPTIONS. | 120 120V |
| EM/10W 10-watt emergency battery ^[7] | | | 277 277V |
| EM/10WRM/WET Remote mount 10-watt emergency battery with wet location enclosure. ^[8] | – None | DIM Dimming driver DRV Non-dimming driver | UNV 120-277V |
| (L____) Additional lower lumen packages available. ^[9] Example: 4,100 lumens = 96-4-L62/840-HIAFR-(L41) | | | 347 347V ^[18] |
| LA40 -40°C minimum operating temperature ^[10] | | | |
| WET/1 (1) 1/2" watertight hub, side access ^[11] | | | |
| WET/2 (2) 1/2" watertight hubs, side access ^[12] | | | |
| WTT/1 (1) 1/2" watertight hub, back access ^[13] | | | |
| WTT/2 (2) 1/2" watertight hubs, back access ^[14] | | | |
| SSCMB (2) Stainless steel chain mounting brackets | | | |
| PCL Injection-molded polycarbonate latches ^[15] | | | |
| TP Tamper-resistant screws ^[16] | | | |
| WMB (2) Stainless steel 45° wall mount brackets | | | |
| GC2/L/10 10' adjustable cable suspension system with loop | | | |

ACCESSORIES

TPTG TOOL Tamper-resistant tool for tri-groove screws. ^[19]

NOTES

- Lumen output based on HIAFR Shielding, 80 CRI/4000K CCT. Actual performance may vary +/-5%, see page 2 for FIXTURE PERFORMANCE DATA. Additional lumen packages available, see Options.
- Acrylic diffusers only.
- Extended lead times may apply. Consult factory for availability.
- Not available with 8' units.
- Stainless steel latches required for applications with harsh chemicals. Cord and receptacle options available. See page 3 for CORD OPTIONS. See page 3 for MOUNTING DETAILS.
- Not available with L110 or L220 lumen packages. 4' or 8' only. Rated for -20°C to 25°C ambient temperature.
- Not available with L110 or L220 lumen packages. 4' or 8' only. Temperature restrictions apply. See page 2 for FIXTURE PERFORMANCE DATA.
- 40°C maximum ambient operating temperature. Max remote distance 50'. Includes (2) 1/2" watertight hubs. See page 3 for FIXTURE DETAILS.
- Specify in increments of 100 nominal lumens. Option must be specified with next higher lumen package.
- Not available with EM batteries.
- Factory-installed in end of housing. Increases overall length by 1/8"
- Factory-installed in ends of housing. Not available with occupancy sensor option. Increases overall length by 1/4"
- 4' only, factory-installed in back of fixture.
- 4' and 8' only, factory-installed in back of fixture.
- Not recommended for use in harsh environments, such as a car wash.
- Requires a tamper-resistant tool, see Accessories.
- See page 4 for SENSOR PLACEMENT DETAILS.
- Not available with EM batteries.
- Ordered separately, please specify quantity required per project.

FIXTURE PERFORMANCE DATA

| | LED PACKAGE | DELIVERED LUMENS | WATTAGE | EFFICACY (lm/W) | MAXIMUM TEMPERATURE (°C) | |
|----|-------------|------------------|---------|-----------------|--------------------------|-----------|
| | | | | | STANDARD | EMERGENCY |
| 2' | L21 | 2201 | 18 | 122 | 40 | - |
| | L29 | 3028 | 25 | 121 | 40 | - |
| 4' | L40 | 4086 | 30 | 136 | 40 | 40 |
| | L62 | 6434 | 48 | 134 | 40 | 30 |
| | L81 | 8121 | 65 | 125 | 30 | 25 |
| | L110 | 11075 | 88 | 126 | 30 | - |
| 8' | L80 | 8018 | 61 | 131 | 40 | 40 |
| | L130 | 13026 | 95 | 137 | 40 | 30 |
| | L160 | 16188 | 123 | 132 | 30 | 25 |
| | L220 | 22056 | 166 | 133 | 30 | - |

MULTIPLIER TABLES

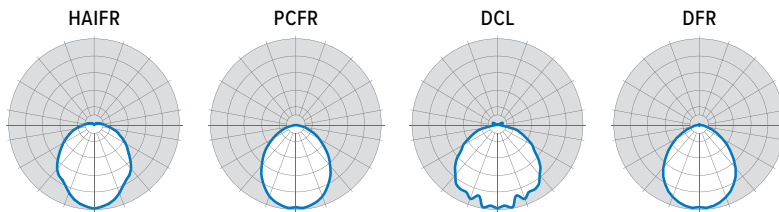
| | COLOR TEMPERATURE | |
|--------|-------------------|-------------------|
| | CCT | CONVERSION FACTOR |
| 80 CRI | 3000K | 0.96 |
| | 3500K | 0.97 |
| | 4000K | 1.00 |
| | 5000K | 1.03 |
| 90 CRI | 3000K | 0.79 |
| | 3500K | 0.80 |
| | 4000K | 0.83 |
| | 5000K | 0.86 |

| SHIELDING | |
|-------------|-------------------|
| LENS | CONVERSION FACTOR |
| HIAFR | 1.00 |
| PCFR | 0.91 |
| DFR [2] | 1.05 |
| DCL [1] [2] | 1.06 |

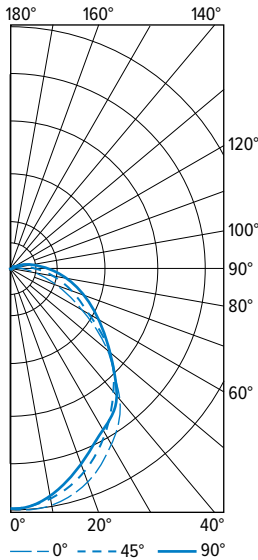
- ¹ Due to lens being clear, striations in the light distribution will be visible.
- ² Affects distribution, see photometry.

- Photometrics tested in accordance with IESNA LM-79. Results based on HIAFR shielding, 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 tables to calculate additional options.

PHOTOMETRY



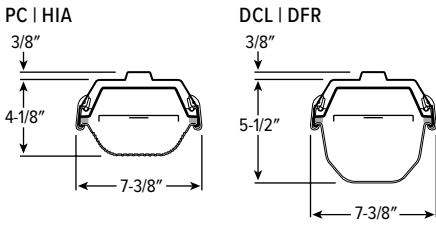
96-4-L62/840-HIAFR-DRV Report #: 20008.0; 08/15/17 | Total Luminaire Output: 6434 lumens; 48.3 Watts | Efficacy: 133.1 lm/W | 83.6 CRI; 4041K CCT



| VERTICAL ANGLE | HORIZONTAL ANGLE | | | ZONAL LUMENS |
|----------------|------------------|------|------|--------------|
| | 0° | 45° | 90° | |
| 0 | 2318 | 2318 | 2318 | |
| 5 | 2352 | 2298 | 2283 | 220 |
| 15 | 2259 | 2169 | 2120 | 617 |
| 25 | 2066 | 1943 | 1865 | 899 |
| 35 | 1780 | 1666 | 1704 | 1065 |
| 45 | 1370 | 1379 | 1389 | 1055 |
| 55 | 943 | 1007 | 1062 | 901 |
| 65 | 546 | 695 | 828 | 691 |
| 75 | 231 | 449 | 599 | 457 |
| 85 | 38 | 251 | 361 | 252 |
| 90 | 15 | 185 | 272 | |
| 95 | 14 | 150 | 217 | 143 |
| 105 | 8 | 84 | 138 | 79 |
| 115 | 4 | 39 | 85 | 39 |
| 125 | 0 | 8 | 42 | 14 |
| 135 | 0 | 0 | 9 | 2 |
| 145 | 0 | 0 | 2 | 1 |
| 155 | 0 | 0 | 0 | 0 |
| 165 | 0 | 0 | 0 | 0 |
| 175 | 0 | 0 | 0 | 0 |
| 180 | 0 | 0 | 0 | 0 |

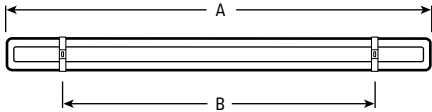
| LUMEN SUMMARY | ZONE | LUMENS | % FIXTURE |
|---------------|--------|--------|-----------|
| | 0 - 30 | 1736 | 27 |
| 0 - 40 | 2801 | 44 | |
| 0 - 60 | 4757 | 74 | |
| 0 - 90 | 6156 | 96 | |
| 90 - 120 | 262 | 4 | |
| 90 - 150 | 275 | 4 | |
| 90 - 180 | 278 | 4 | |
| 0 - 180 | 6434 | 100 | |

CROSS SECTIONS



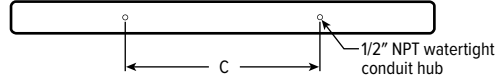
FIXTURE DETAILS

BACKVIEW



| NOMINAL LENGTH | OVERALL LENGTH (A) | MOUNTING DISTANCE (B) |
|----------------|--------------------|-----------------------|
| 2' | 27-5/8" | 12"- 17" OC |
| 4' | 51-7/8" | 30"- 42" OC |
| 8' | 100-1/4" | 48"- 80" OC |

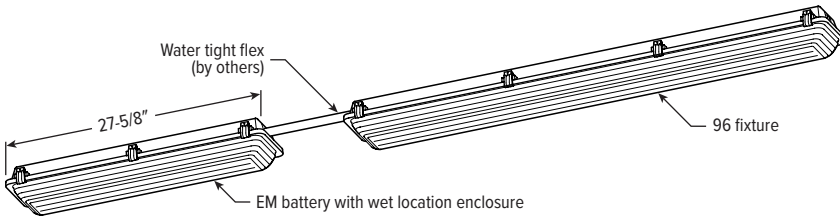
WTT/1 | WTT/2 OPTIONS



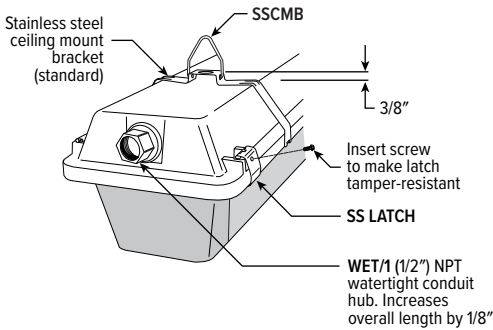
| NOMINAL LENGTH | DISTANCE (C) |
|-----------------|--------------|
| 4' | 24" OC |
| 8' (WTT/2 only) | 45-3/4" OC |

REMOTE MOUNT BATTERY

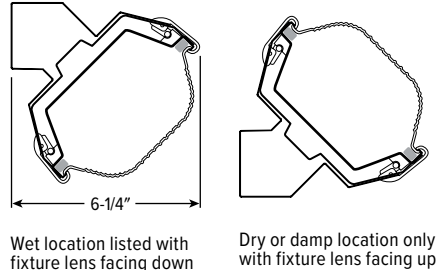
Max remote distance 50'. Includes (2) 1/2" watertight hubs.



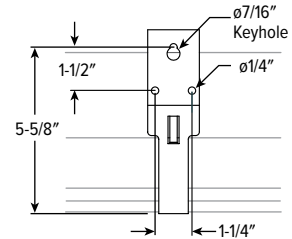
MOUNTING DETAILS



WMB OPTION



GC2/L/10



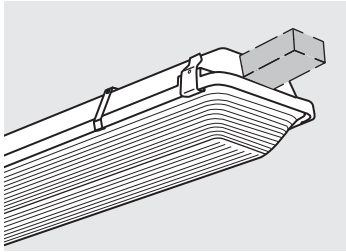
CORD OPTIONS

| EXAMPLE: 5WMRC6 | | |
|----------------------------|--|-------------|
| NUMBER OF CONDUCTORS | POWER CONNECTION – NON-DIMMING | CORD LENGTH |
| 3 3-wire 4 4-wire | WMR Mini-male receptacle only | - |
| | WC STOW cord | 6 6' |
| | WMRC Mini-male receptacle with STOW cord | 20 20' |
| POWER CONNECTION – DIMMING | | |
| 5 5-wire 6 6-wire | WMR Mini-male receptacle only | - |
| | WC SOOW cord | 6 6' |
| | WMRC Mini-male receptacle with SOOW cord | 20 20' |

Wet location cord sets are yellow.



SENSOR PLACEMENT DETAILS



ADDITIONAL CONTROL OPTIONS

OCCWS-FSP-321B-L_-120-480 Wattstopper PIR motion and daylight sensor using 0-10V internal control, 120V-480V. Must specify lens: L2, L3 or L7. Factory installed.

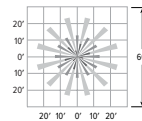
OCCWS-FSP-221B-L_-120-480 Wattstopper PIR motion and daylight sensor using 0-10V internal control, 120V-480V. Must specify lens: L2, L3 or L7. Factory installed.

FSIR-100 Remote controller for 221B sensor. Please specify quantity required per project. Ordered and shipped separately.

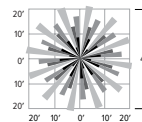
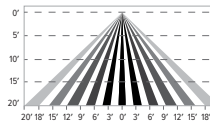
| SPECIFICATIONS | |
|-------------------|---|
| TYPE | PIR Motion + Daylight |
| MOUNTING HEIGHT | 8' – 40' |
| DETECTION ANGLE | 360° |
| TEMPERATURE RANGE | -40° to 75°C |
| COMMISSIONING | 321B Sensor: App (iOS or Android) 221B Sensor: FSIR-100 Remote |

SENSOR COVERAGE PATTERNS

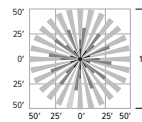
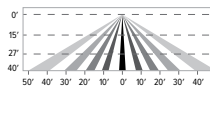
L2 8' height: ø48' coverage



L3 20' height: ø40' coverage



L7 40' height: ø100' coverage



SENSOR DETAIL

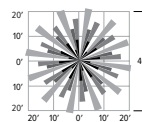
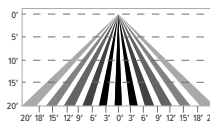


OCCWS-HB350W-L3W-___ Wattstopper PIR motion sensor. Must specify voltage: 120 or 277V.

| SPECIFICATIONS | |
|-------------------|---------------------------|
| TYPE | PIR Motion |
| MOUNTING HEIGHT | 20' |
| DETECTION ANGLE | 360° |
| TEMPERATURE RANGE | -40° to 70°C |
| RELATIVE HUMIDITY | 20 to 90%, non-condensing |

SENSOR COVERAGE PATTERNS

20' height: ø40' coverage



SENSOR DETAIL



IP65 certified for wet locations. Not rated for NEMA 4X.

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) |
| SD40 | 40% step-dimming driver |
| SD50 | 50% step-dimming driver |
| DALI | DALI dimming driver |
| LDE1 | Lutron Hi-lume 1% EcoSystem dimming LED driver |

