

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 138 lm/W
- Made Right Here® in the USA

SPECIFICATIONS

- ENCLOSURE** – Outer housing consists of 5VA (f1) 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.
- WARRANTY** – 5-year limited warranty, see www.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	9 90 ^[3]	35 3500K	PCFR Frosted, ribbed, UV stabilized polycarbonate ^[4]	
	8 8' ^[2]	L29 2,900lm		40 4000K		
		4'	L80 8,000lm		50 5000K	DFR Drop, frosted, impact-resistant acrylic
			L130 13,000lm			DCL Drop, clear, impact-resistant acrylic with frosted ends
			L160 16,000lm			
			L40 4,000lm			
			L62 6,200lm			
			L81 8,100lm			
			L110 11,000lm			

OPTIONS ^[5]	CONTROL	DRIVER ^[6]	VOLTAGE
(L____) Additional lower lumen packages available. ^[7] Example: 4,100 lumens = 96-4-L62/840-HIAFR-(L41).	– None <i>See page 4 for Additional Control Options.^[19]</i>	DIM Dimming driver DRV Non-dimming driver	120 120V 277 277V UNV 120-277V 347 347V ^[20]
EM/10W 10-watt emergency battery ^[8]			
EM/6WC 6-watt emergency, low temperature battery ^[9]			
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 hub, back access ^[14]			
SSCMB Stainless steel chain mounting brackets ^[15]			
PCL Injection-molded polycarbonate latches ^[16]			
TP Tamper-resistant screws ^[17]			
WMB Stainless steel 45° wall mount bracket ^[18]			

ACCESSORIES

TPTG TOOL Tamper-resistant tool for tri-groove screws.^[21]

NOTES

- Lumen output based on 4000 CCT and HIAFR shielding. Actual lumens may vary +/-5%, see page 2 for FIXTURE PERFORMANCE DATA. Additional lumen package 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 4 for ADDITIONAL DRIVER OPTIONS.
- Specify in increments of 100 nominal lumens. Option must be specified with next higher lumen package.
- Not available with L110 or L220 lumen packages. 4' or 8' only. Temperature restrictions apply. See page 2 for FIXTURE PERFORMANCE DATA.
- Not available with L110 or L220 lumen packages. 4' or 8' only. Rated for -20°C to 25°C ambient temperature.
- Not available with EM batteries.
- Factory-installed in end of housing.
- Factory-installed in ends of housing; not available with occupancy sensor option.
- 4' only, factory-installed in back of fixture.
- 4' and 8' only, factory-installed in back of fixture.
- 2 per fixture.
- Not recommended for use in harsh environments, such as a car wash.
- This option requires a tamper-resistant tool, see Accessories.
- 2 per fixture. See page 3 for MOUNTING DETAILS.
- See page 4 for SENSOR PLACEMENT DETAILS.
- Not available with EM batteries.
- Tamper-resistant tool must be 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	-
	L40	4086	30	136	40	40
4'	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

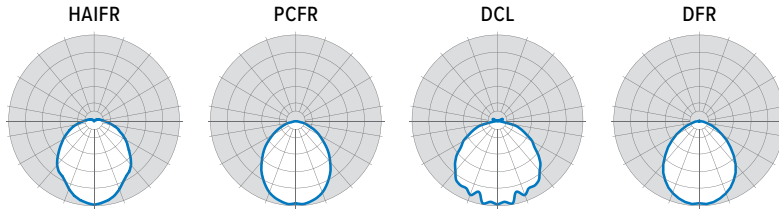
	COLOR TEMPERATURE	
	CCT	CONVERSION FACTOR
80 CRI	3000K	0.96
	3500K	0.97
	4000K	1.00
	5000K	1.03
90 CRI	3000K	0.79
	3500K	0.80
	4000K	0.83
	5000K	0.86

SHIELDING	
LENS	CONVERSION FACTOR
HIAFR	1.00
PCFR	0.91
DFR ^[2]	1.05
DCL ^{[1] [2]}	1.06

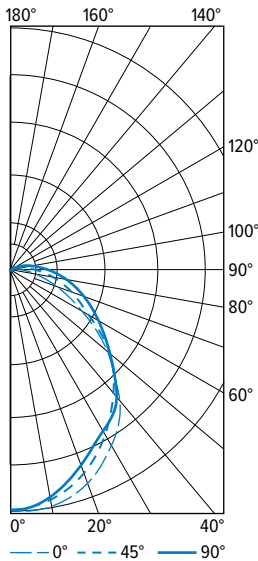
¹ Due to lens being clear, striations in the light distribution will be visible.
² Affects distribution, see photometry.

- Photometrics tested in accordance with IESNA LM-79. Results shown are based on 25°C ambient temperature.
- Wattage shown is average for 120V through 277V input.
- To calculate lumen output in emergency mode, multiply the battery wattage by the efficacy.
- Results based on 4000K and HIAFR shielding actual lumens 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

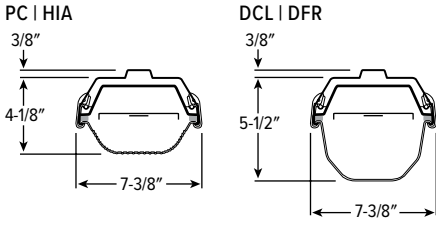


VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
	0°	45°	90°	
0	2318	2318	2318	
5	2352	2298	2283	220
15	2259	2169	2120	617
25	2066	1943	1865	899
35	1780	1666	1704	1065
45	1370	1379	1389	1055
55	943	1007	1062	901
65	546	695	828	691
75	231	449	599	457
85	38	251	361	252
90	15	185	272	
95	14	150	217	143
105	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	

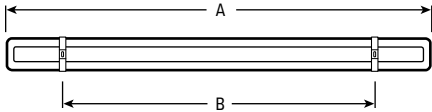


CROSS SECTIONS



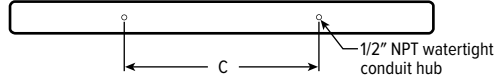
FIXTURE DETAILS

BACKVIEW



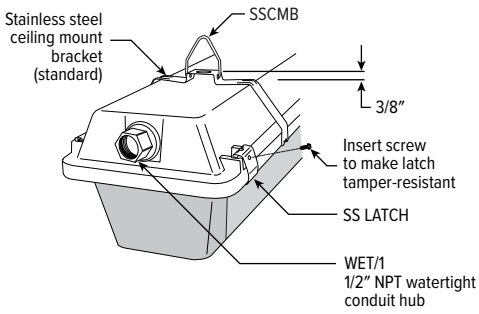
NOMINAL LENGTH	OVERALL LENGTH (A)	MOUNTING DISTANCE (B)
2'	27-5/8"	12"- 17" OC
4'	51-7/8"	30"- 42" OC
8'	100-1/4"	48"- 80" OC

WTT/1 | WTT/2 OPTIONS

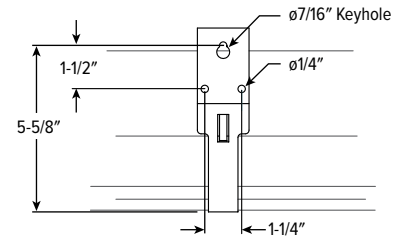
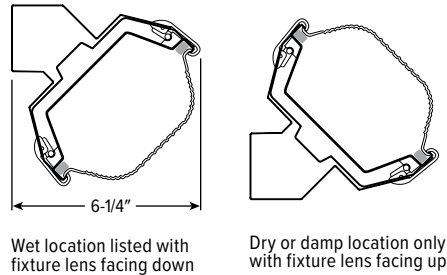


NOMINAL LENGTH	DISTANCE (C)
4'	24" OC
8' (WTT/2 only)	45-3/4" OC

MOUNTING DETAILS



WMB OPTION



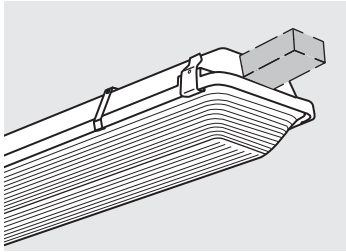
CORD OPTIONS

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

Wet location cord sets are yellow.



SENSOR PLACEMENT DETAILS



ADDITIONAL CONTROL OPTIONS

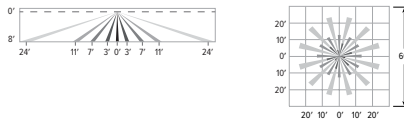
WS-FSP-321B-L_-120-480 Wattstopper PIR motion and daylight sensor using 0-10V internal control, 120V-480V. Must specify lens: L2, L3 or L7. Factory installed.

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

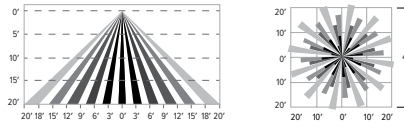
IP66 certified for wet locations. Not rated for NEMA 4X.

SENSOR COVERAGE PATTERNS

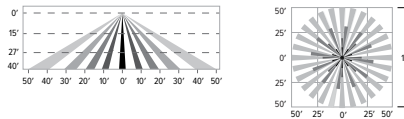
L2 8' height: ø48' coverage



L3 20' height: ø40' coverage



L7 40' height: ø100' coverage



SENSOR DETAIL



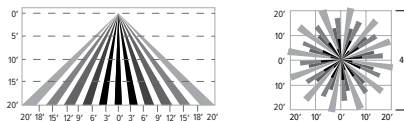
WS-HB350W-L3W-___ Wattstopper PIR motion sensor. Must specify voltage: 120 or 277V.

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

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

SENSOR COVERAGE PATTERNS

20' height: ø40' 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)
SD40	40% step-dimming driver
SD50	50% step-dimming driver
DALI	DALI dimming driver
LDE1	Lutron Hi-lume 1% EcoSystem dimming LED driver

