97 LED
Enclosed & Gasketed Industrial/Garage Lighter

Williams

3/8″ · 6-3/4″ · 5-1/2″

CATALOG #: _____

Type: _____

PROJECT: _____

BUY AMERICAN ACT COMPLIANT · **IP65** Rated · **IP66** Rated · **IP67** Rated · **NEMA 4X** · **NSF** COMPONENT

FEATURES

- Wide distribution optics are ideal for parking garage applications
- Fully gasketed fixture is built tough to resist contaminants
- Toggle latches ensure a tight seal and provide easy access to electrical components
- Optional tamper-resistant latches available
- Standard stainless steel latches protect the fixture from corrosion in harsh environments
- NSF/ANSI Standard 2–Splash Zone certified
- IP65, IP66, and IP67 certified
- Closed-cell polyurethane gasket poured and formed in place to ensure tight seal–does not absorb water or promote fungal growth
- High-performance up to 148 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 – 95% reflective highly specular aluminum.
- SHIELDING – Frosted or clear, impact-resistant acrylic.
- ELECTRICAL – High-quality mid-power LED board. L70 >50,000 hours. -20°C to 40°C maximum ambient operating temperature. -40°C minimum operating temperature with LA40 option.
- MOUNTING – Surface or suspended. Stainless steel ceiling mount brackets included.
- 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: 97 - 4 - L95/840 - FR - OPTIONS - CONTROL/DRV - UNV

ORDERING INFO

SERIES	LENGTH	LUMENS [1]		CRI	CCT		SHIELDING
97	2 2′	2′		8 80	30 3000K		FR Frosted, impact-resistant acrylic
	4 4′	L25	2500lm	9 90 [2]	35 3500K		A Clear, impact-resistant acrylic with frosted ends
		L37	3700lm		40 4000K		
		L45	4500lm		50 5000K		
		4′					
		L50	5000lm				
		L79	7900lm				
		L95	9500lm				

OPTIONS [3]

EM/6WC	6-watt emergency, low temperature battery [4]
EM/10W	10-watt emergency battery [5]
EM/10WRM/WET	Remote mount 10-watt emergency battery with wet location enclosure [6]
(L__)	Additional lower lumen packages available Example: 6,100 lumens = 97-4-L79/840-FR-(L61) [7]
LA40	-40°C minimum operating temperature [8]
WET/1	(1) 1/2″ watertight hub [9]
WET/2	(2) 1/2″ watertight hubs [10]
SSCMB	(2) Stainless steel chain mounting brackets
PCL	Injection-molded polycarbonate latches [11]
TP	Tamper-resistant screws [12]

CONTROL

See page 4 for Additional Control Options. [13]

– None

DRIVER

See page 4 for ADDITIONAL DRIVER OPTIONS.

DIM Dimming driver
DRV Non-dimming driver

VOLTAGE

120	120V
277	277V
UNV	120-277V
347	347V [14]

ACCESSORIES

TPTG TOOL Tamper-resistant tool for tri-groove screws. [15]

NOTES

1. Lumen output based on FR shielding, 80 CRI/4000K CCT. Actual performance may vary +/-5%. See page 2 for FIXTURE PERFORMANCE DATA. Additional lumen packages available, see options.
2. Extended lead times may apply. Consult factory for availability.
3. Stainless steel latches required for applications with harsh chemicals. See page 3 for CORD OPTIONS. See page 3 for OPTIONS.
4. 4′ only. Rated for -20°C to 25°C ambient temperature.
5. 4′ only. 25°C maximum ambient operating temperature at or below L79.
6. 30°C maximum ambient operating temperature. Max remote distance 50′. Includes (2) 1/2″ watertight hubs. See page 3 for FIXTURE DETAILS.
7. Specify in increments of 100 nominal lumens. Option must be specified with next higher lumen package.
8. Not available with EM batteries.
9. Factory-installed in end of housing. Increases overall length by 1/8″
10. Factory-installed in ends of housing. Not available with occupancy sensor option. Increases overall length by 1/4″
11. Not recommended for use in harsh environments, such as a car wash.
12. Requires a tamper-resistant tool, see Accessories.
13. See page 3 for SENSOR PLACEMENT DETAILS.
14. Not available with EM batteries.
15. Ordered separately, please specify quantity required per project.

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FIXTURE PERFORMANCE DATA

	LED PACKAGE	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
2'	L25	2559	18.3	140
	L37	3756	27.2	138
	L45	4554	30.8	148
4'	L50	5118	34.7	147
	L79	7920	57.3	138
	L95	9590	64.8	148

- Photometrics tested in accordance with IESNA LM-79. Results based on FR 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.
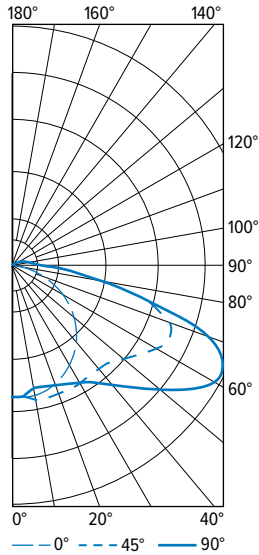- Use multiplier tables to calculate additional options.

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

LENS	CONVERSION FACTOR
A	1.00
FR	0.98

PHOTOMETRY

97-4-L95/840-FR-DRV-UNV Total Luminaire Output: 9590 lumens; 64.8 Watts | Efficacy: 148 lm/W | 86.8 CRI; 4166K CCT

VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
	0°	**45°**	**90°**	
0	1545	1545	1545	
5	1570	1599	1458	149
15	1528	1609	1501	442
25	1427	1608	1553	717
35	1285	1595	1680	970
45	1088	1629	2050	1243
55	844	1853	2546	1582
65	565	2070	2778	1795
75	307	1660	1823	1408
85	109	716	689	665
90	70	460	411	
95	51	314	281	285
105	36	185	172	154
115	22	117	134	95
125	11	65	95	52
135	0	30	54	22
145	0	12	28	8
155	0	0	10	2
165	0	0	0	0
175	0	0	0	0
180	0	0	0	

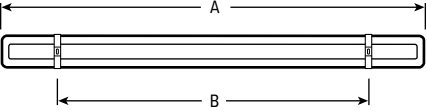|	ZONE	LUMENS	% FIXTURE
LUMEN SUMMARY	0 - 30	1308	14
	0 - 40	2278	24
	0 - 60	5103	53
	0 - 90	8971	94
	90 - 120	534	6
	90 - 150	617	6
	90 - 180	619	7
	0 - 180	9590	100

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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

OPTIONS

Stainless steel ceiling mount bracket (standard)

SSCMB

3/8"

Insert screw to make latch tamper-resistant

SS LATCH

WET/1 (1/2") NPT watertight conduit hub. Increases overall length by 1/8"
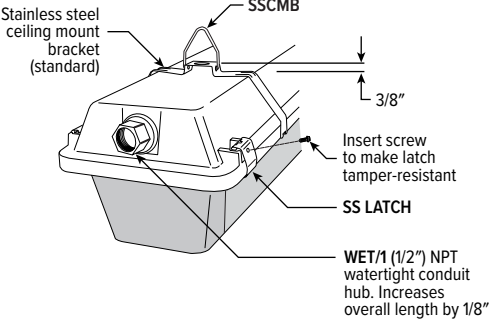
REMOTE MOUNT BATTERY
Max remote distance 50'. Includes (2) 1/2" watertight hubs.

Water tight flex (by others)

27-5/8"

EM battery with wet location enclosure

97 fixture
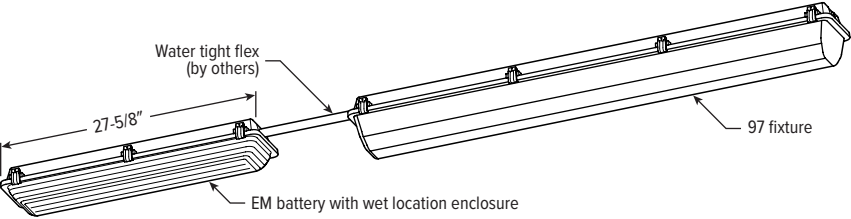
CORD OPTIONS

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
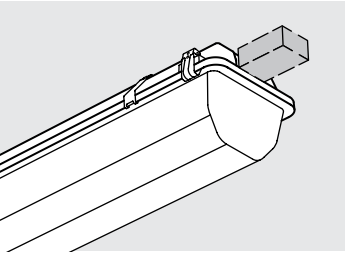
SEE NEXT PAGE FOR CONTROL DETAILS.

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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.
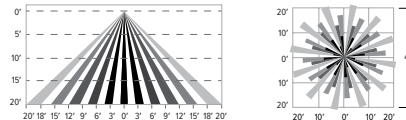
SPECIFICATIONS

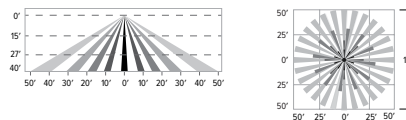|	
TYPE	PIR Motion + Daylight
MOUNTING HEIGHT	8' – 40'
DETECTION ANGLE	360°
TEMPERATURE RANGE	-40° to 75°C
COMMISSIONING	321B Sensor: App (iOS or Android) 221B Sensor: FSIR-100 Remote

SENSOR COVERAGE PATTERNS

L2 8' height: ø48' coverage
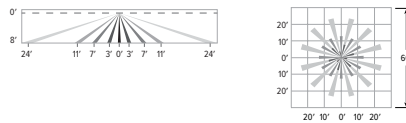
L3 20' height: ø40' coverage
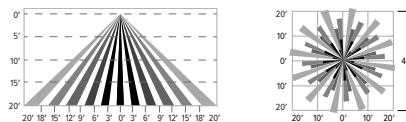

L7 40' height: ø100' coverage

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

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