

CATALOG #:	TYPE:
PROJECT:	NOTES:

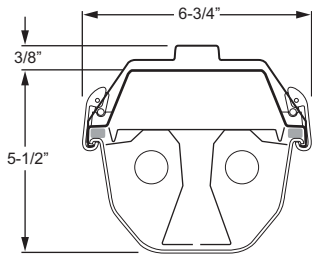


EXAMPLE

**97 - 4 - 2 32 - A - OPTIONS - EB2 - UNV**

SERIES    NOMINAL LENGTH    TOTAL WATTAGE/LAMPS    SHIELDING    OPTIONS/ACCESSORIES    BALLAST TYPE    VOLTAGE

## CROSS SECTION



## ORDERING INFORMATION

SERIES	
<b>97</b>	Fully Enclosed Wide Distribution Industrial
NOMINAL LENGTH	
<b>4</b>	4'
<b>8</b>	8'
TOTAL LAMPS	
<b>2 or 4</b>	(2-lamp cross-section)
LAMP WATTAGE/TYPE	
<b>28T5S</b>	4', 28-watt T5 (2-lamp ballast only)
<b>32</b>	4', 32-watt T8
<b>54T5H</b>	4', 54-watt T5HO
<b>59</b>	8', 59-watt T8
SHIELDING	
<b>A</b>	Clear, 100% acrylic, impact-resistant diffuser with frosted ends (standard)
<b>FR</b>	Frosted, 100% acrylic, impact-resistant diffuser

OPTIONS/ACCESSORIES	
Wet location cord sets are yellow. For generic EM ballast options (must specify voltage), see <a href="#">Technical Info.</a> <sup>2, 3</sup>	
<b>3WC6</b>	3-wire, 6' STOW cord
<b>3WC20</b>	3-wire, 20' STOW cord
<b>4WC6</b>	4-wire, 6' STOW cord
<b>4WC20</b>	4-wire, 20' STOW cord
<b>3WMR</b>	3-wire mini-male receptacle only
<b>3WMRC6</b>	3-wire mini-male receptacle with 6' STOW cord
<b>3WMRC20</b>	3-wire mini-male receptacle with 20' STOW cord
<b>4WMR</b>	4-wire mini-male receptacle only
<b>4WMRC6</b>	4-wire mini-male receptacle with 6' STOW cord
<b>4WMRC20</b>	4-wire mini-male receptacle with 20' STOW cord

OPTIONS/ACCESSORIES (Continued)	
<b>WET/1</b>	(1) 1/2" watertight hub (factory-installed in end of housing)
<b>WET/2</b>	(2) 1/2" watertight hubs (factory-installed in ends of housing; not available with occupancy sensor option)
<b>SSCMB</b>	Stainless steel chain mounting brackets (2 per fixture)
<b>HA/40C<sup>3</sup></b>	High-ambient, 40°C max. operating temp. <sup>3</sup>
<b>GMF<sup>4</sup></b>	Fuse, slow blow (specify voltage) <sup>4</sup>
<b>GLR<sup>4</sup></b>	Fuse, fast blow (specify voltage) <sup>4</sup>
<b>TP<sup>5</sup></b>	Tamper-resistant polycarbonate latches <sup>5</sup>
<b>SS LATCH</b>	Stainless steel latches
<b>TP/SS LATCH<sup>5</sup></b>	Tamper-resistant stainless steel latches <sup>5</sup>
OCCUPANCY SENSORS <sup>1</sup>	
Occupancy sensor must be specified from the following (specify voltage):	
	<b>OCCWS HB350W-L3W-120/277<sup>1</sup></b>
	<b>OCCWS HB350W-L4W-120/277<sup>1</sup></b>

BALLAST TYPE	
<b>EB2</b>	2-lamp electronic ballast
<b>EB4</b>	4-lamp electronic ballast
<b>EB2/2</b>	(2) 2-lamp electronic ballasts
VOLTAGE	
<b>120</b>	120V
<b>277</b>	277V
<b>UNV</b>	120-277V
<b>347</b>	347V
<b>480</b>	480V (T5HO only)

## FEATURES

- ▶ Fully gasketed fixture resists dust, bugs, and moisture.
- ▶ Polycarbonate toggle latches (standard) ensure a tight seal and easy access to electrical components.
- ▶ Optional stainless steel, tamper-resistant stainless steel, or tamper-resistant polycarbonate latches available.
- ▶ NSF/ANSI Standard 2-Splash Zone certified.
- ▶ IP65, IP66, and IP67<sup>1</sup> certified.
- ▶ UL listed as fluorescent fixture suitable for wet locations<sup>2</sup> when ordered with factory-installed watertight hubs, STOW cord, or mini-male receptacle option.
- ▶ Can operate up to 40°C/104°F with high-ambient (HA/40C) option.<sup>3</sup>
- ▶ Closed-cell polyurethane gasket poured and formed in place to ensure tight seal—does not absorb water or promote fungal growth.
- ▶ This fixture is proudly made in the USA.

<sup>1</sup> Fixture is IP65 certified when specified with occupancy sensor.

<sup>2</sup> EM ballast for enclosed and gasketed fixtures is required for fixture to be suitable for wet locations (not available with HA/40C option). Wet location cord sets are yellow.

<sup>3</sup> Amalgam lamps recommended. HA/40C option not available with EM ballast.

<sup>4</sup> Two (2) fuses required when specifying 208V or 240V.

<sup>5</sup> This option requires a tamper-resistant tool (must be ordered separately). Please specify quantity required per project.



### SPECIFICATIONS

**Enclosure** – Outer housing consists of 5VA (f1) fiberglass, rated for flame and weather resistance.

**Internal Housing** – 25-gauge die-formed C.R.S.

**Latching** – Injection-molded polycarbonate latches.

**Reflector** – 95% reflective highly specular aluminum.

**Shielding** – Clear, 100% acrylic, impact-resistant, UV resistant, injection-molded diffuser with frosted ends.

**Electrical** – Electronic ballast standard, instant start T8, program start T5, rated Class P.

**Mounting** – Surface or suspended. Stainless steel ceiling mounting bracket standard.

**Labels & Certifications** – UL/CUL listed as fluorescent luminaire suitable for dry or damp locations. UL/CUL listed as suitable for wet locations when specified with watertight hub, STOW cord, or mini-male receptacle option. 2 NSF/ANSI Standard 2–Splash Zone certified, IP65, IP66, and IP671 certified, and rated for NEMA 4X.

**Warranty** – 5-year limited warranty, see [hew.com/warranty](http://hew.com/warranty).

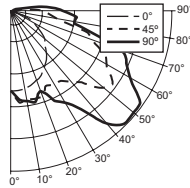
### IMPORTANT:

Electrostatic sensitive unit. Observe precautions when handling.

### PHOTOMETRY – T5

#### TEST REPORT INFORMATION

- ▶ Test Report #: 15340.0
- ▶ Date: 03/25/10
- ▶ Lamp Type: FP54T5HO
- ▶ Lamp Quantity: 2



#### ZONAL CAVITY COEFFICIENTS

	Ceiling			Wall			Floor		
	.80	.70	.50	.80	.70	.50	.80	.70	.50
0	.85	.85	.85	.83	.83	.83	.78	.78	.78
1	.76	.71	.67	.73	.69	.65	.65	.62	.59
2	.67	.60	.54	.65	.58	.53	.55	.50	.46
3	.61	.52	.45	.58	.50	.44	.47	.42	.37
4	.55	.45	.38	.53	.44	.37	.41	.35	.30
5	.49	.39	.31	.47	.38	.31	.35	.29	.25
6	.45	.34	.27	.43	.33	.26	.31	.25	.20
7	.41	.30	.23	.39	.29	.22	.27	.22	.17
8	.38	.27	.20	.36	.26	.19	.24	.19	.14
9	.35	.24	.17	.33	.23	.17	.22	.16	.12
10	.32	.22	.15	.31	.21	.15	.20	.14	.11

Effective Floor Cavity Reflectance = .20

#### CANDLEPOWER DISTRIBUTION

Vertical Angle	Horizontal Angle			Zonal Lumens
	0°	45°	90°	
0	1058	1058	1058	
5	1060	1229	1192	112.1
15	1022	1206	1252	336.0
25	936	1087	1309	530.2
35	804	1126	1581	744.0
45	625	1338	2134	1059.1
55	491	1659	2120	1284.2
65	310	1394	1714	1194.4
75	141	1046	1179	913.2
85	47	548	870	556.6
90	27	455	718	

#### LUMEN SUMMARY

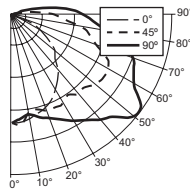
Zone	Lumens	% Lamp	% Fixture
0 - 30	978	9.8	13.4
0 - 40	1722	17.2	23.6
0 - 60	4066	40.7	55.8
0 - 90	6730	67.3	92.4
90 - 120	506	5.1	6.9
90 - 130	538	5.4	7.4
90 - 150	555	5.5	7.6
90 - 180	556	5.6	7.6
<b>Total Luminaire:</b>			
0 - 180	7286	72.9	100.0

Total Luminaire Optical Efficiency: **72.9%**  
IES Spacing Criteria: End = 1.2, Diagonal = 1.8, Across = 2.5

### PHOTOMETRY – T8

#### TEST REPORT INFORMATION

- ▶ Test Report #: 15341.0
- ▶ Date: 03/24/10
- ▶ Lamp Type: F32
- ▶ Lamp Quantity: 2



#### ZONAL CAVITY COEFFICIENTS

	Ceiling			Wall			Floor		
	.80	.70	.50	.80	.70	.50	.80	.70	.50
0	.91	.91	.91	.88	.88	.88	.83	.83	.83
1	.81	.76	.71	.77	.73	.69	.68	.65	.62
2	.72	.64	.57	.69	.62	.56	.57	.52	.48
3	.65	.55	.47	.62	.53	.46	.50	.44	.39
4	.58	.48	.40	.56	.46	.39	.43	.37	.32
5	.53	.41	.33	.50	.40	.33	.37	.31	.26
6	.48	.37	.29	.46	.35	.28	.33	.27	.22
7	.44	.32	.25	.42	.31	.24	.29	.23	.19
8	.41	.29	.22	.39	.28	.21	.26	.20	.16
9	.37	.26	.19	.36	.25	.18	.24	.18	.13
10	.35	.23	.17	.33	.23	.16	.21	.16	.12

Effective Floor Cavity Reflectance = .20

#### CANDLEPOWER DISTRIBUTION

Vertical Angle	Horizontal Angle			Zonal Lumens
	0°	45°	90°	
0	813	813	813	
5	810	835	784	77.6
15	763	734	797	214.4
25	706	766	869	355.8
35	598	735	965	478.9
45	461	775	1086	593.7
55	358	840	1202	725.8
65	220	804	1023	698.9
75	96	621	882	604.9
85	29	412	629	413.0
90	16	345	559	

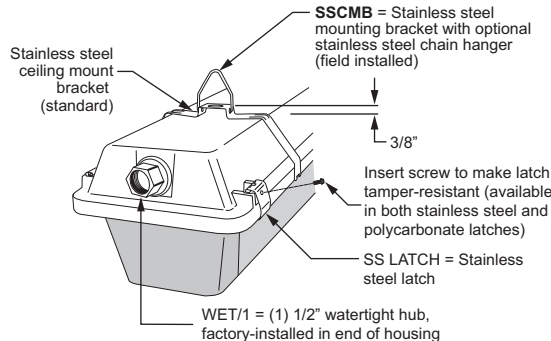
#### LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixture
0 - 30	648	11.0	14.0
0 - 40	1127	19.1	24.4
0 - 60	2446	41.5	53.0
0 - 90	4163	70.6	90.3
90 - 120	422	7.1	9.1
90 - 130	437	7.4	9.5
90 - 150	447	7.6	9.7
90 - 180	449	7.6	9.7
<b>Total Luminaire:</b>			
0 - 180	4612	78.2	100.0

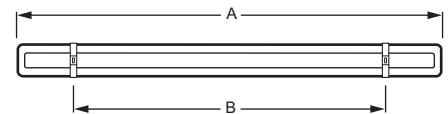
Total Luminaire Optical Efficiency: **78.2%**  
IES Spacing Criteria: End = 1.2, Diagonal = 1.4, Across = 1.9

### FIXTURE DETAILS

#### OPTIONS & MOUNTING



#### BACK VIEW



Nominal Length	Overall Length (A)	Mounting Distance (B)
4'	51-7/8"	36" - 41" OC
8'	100-1/4"	70" - 80" OC