

75 Shown

CATALOG #: \_\_\_\_\_

TYPE: \_\_\_\_\_

PROJECT: \_\_\_\_\_

**FEATURES**

- Williams turn-key Power over Ethernet (PoE) solution provides plug-and-play networked lighting and control.
- Tunable white from 3000K to 5000K CCT, minimum 80 CRI
- Small fixture profile allows inconspicuous placement in coves or confined spaces
- Round and square lensed fixtures provide a clean look for architectural environments
- Row applications produce continuous light with minimal interruption between fixtures
- Diffuse acrylic lens on 75R and 75S enhances uniformity and minimizes glare
- Variety of mounting accessories for surface and suspended applications
- Special reflectors are available to provide precise light distribution (75 only)
- Maximize energy savings with efficacies as high as 146 lm/W
- Made Right Here® in the USA

**SYSTEM REQUIREMENTS**

- Lighting system (site software)
- Gateway or alternate server (runs software)
- PoE switches or Ethernet switches and mid-span power injectors
- See [hew.com/poe](http://hew.com/poe) for details

**SPECIFICATIONS**

- HOUSING – 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. L70 >50,000 hours per IES TM-21. Low-voltage DC fixture, to be fed by Class 2 power supply. Tunable White products use LEDs of multiple CCTs and may produce a perceptibly different shade of white from single-CCT products at the same CCT. All CCTs are within 3 MacAdam ellipses.
- MOUNTING – Surface (ceiling or wall) or suspended (hanging hardware required).
- LISTINGS – cETLus conforms to UL STD 1598. Certified to CAN/CSA STD C22.2 No. 250.0. Suitable for damp locations
- WARRANTY – 5-year limited warranty, see [hew.com/warranty](http://hew.com/warranty).

**ORDERING EXAMPLE: 75 - 4 - P72/835 - OPTIONS - POE N**

**ORDERING INFO**

SERIES	LENGTH <sup>[1]</sup>	LUMENS <sup>[2]</sup>	CRI	CCT
75	2 2'	2'	8 80	27 2700K
75R	4 4'	P23 2,300lm	9 90 <sup>[3]</sup>	30 3000K
75S	8 8'	P34 3,400lm		35 3500K
		4'		40 4000K
		P34 3,400lm		50 5000K
		P72 7,200lm		8TW Tunable white (80 CRI, 3000K-5000K)
		8'		
		P73 7,300lm		
		P145 14,500lm		

**OPTIONS <sup>[4]</sup>**

- EM/CP12 Remote mount 12-watt lora emergency battery <sup>[6]</sup>
- WG-75 11-gauge white powder coat wireguard
- 315 1-1/2" ceiling spacer
- VBY (2) Y-hangers
- VBY-2 (2) Y-hangers and (2) 2' chains
- RA-75 Row aligner <sup>[7]</sup>
- 45AMB (2) 45° adjustable mounting brackets <sup>[8]</sup>

**CONTROL <sup>[5]</sup>**

- POE N Power over Ethernet network node
- POE D Power over Ethernet device node <sup>[10]</sup>

**MOUNTING (EXAMPLE: AC/D48) <sup>[9]</sup>**

Prefix	Type	Length
AC/	D 1" grid & hardpan	24 24"
	N 9/16" grid	48 48"
	S Slot grid	96 96"

**NOTES**

- For actual length, see page 3 for FIXTURE DETAILS
- Lumens based on 3500K for single CCT and 4000K for TW. Actual lumens may vary +/-5%, see page 2 for FIXTURE PERFORMANCE DATA.
- Extended lead times may apply. Consult factory for availability. Not available with Tunable White.
- See page 4 for FINISH OPTIONS. See page 3 for MOUNTING DETAILS. See page 4 for SPECIAL REFLECTORS. See [hew.com/poe](http://hew.com/poe) for compatible sensors and switches
- Node requires remote mounting. See page 4 for REMOTE MOUNT DETAILS. For additional PoE info, see [hew.com/poe](http://hew.com/poe)
- Requires one additional category cable run to switch. See page 4 for REMOTE MOUNT DETAILS.
- Required when row mounting with aircraft cables
- Power supply cable recommended, ordered separately. See page 3 for MOUNTING DETAILS. Field-adjustable up and down in 7-1/2" increments.
- Required with suspended mount fixtures. Units specified with aircraft cable require power supply cable. See page 3 for MOUNTING DETAILS. Requires RA-75 row aligner. See page 4 for MOUNTING ACCESSORIES DETAILS.
- Not available for fixtures over 40W



## FIXTURE PERFORMANCE DATA

### 75 STANDARD

	LED PACKAGE	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
2'	P23	2273	16.0	142.1
	P34	3427	25.0	137.1
4'	P34	3438	24.0	143.2
	P72	7217	50.0	144.3
8'	P73	7306	50.0	146.1
	P145 <sup>1</sup>	14553	100.0	145.5

### 75R/75S STANDARD

	LED PACKAGE	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
2'	P23	2136	16	133.5
	P34	3222	24	134.2
4'	P34	3232	24	134.6
	P72	6784	49	138.5
8'	P73	6867	49	140.2
	P145 <sup>1</sup>	13680	100	136.8

### 75 TUNABLE WHITE

	LED PACKAGE	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
2'	P23	2344	17.3	135.6
	P34	3404	26.6	128.1
4'	P34	3424	24.6	139.1
	P72	7255	50.1	144.9
8'	P73	7316	50.7	144.3
	P145 <sup>1</sup>	14511	100.1	144.9

### 75R/75S TUNABLE WHITE

	LED PACKAGE	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
2'	P23	2203	16	137.7
	P34	3200	24	133.3
4'	P34	3219	24	134.1
	P72	6820	48	142.1
8'	P73	6877	49	140.3
	P145 <sup>1</sup>	13640	100	136.4

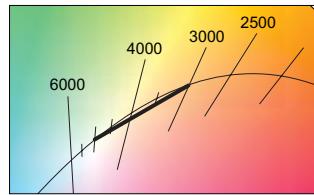
### MULTIPLIER TABLES

STANDARD	
COLOR TEMPERATURE	
CCT	CONVERSION FACTOR
2700K	0.97
3000K	0.99
3500K	1.00
4000K	1.03
5000K	1.06

90 CRI	
CCT	CONVERSION FACTOR
2700K	0.82
3000K	0.83
3500K	0.84
4000K	0.86
5000K	0.90

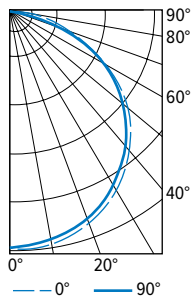
TUNABLE WHITE	
COLOR TEMPERATURE	
CCT	CONVERSION FACTOR
3000K	0.95
3500K	0.98
4000K	1.00
5000K	0.96

- <sup>1</sup> Fixture contains two nodes, one power drop per node required.
- Photometrics tested in accordance with IESNA LM-79. Results shown are based on 25°C ambient temperature.
- Standard results based on 3500K standard, 80 CRI, actual lumens may vary +/-5%
- Tunable white results based on 4000K standard, 80 CRI, actual lumens may vary +/-5%
- Use multiplier tables to calculate additional options.



## PHOTOMETRY

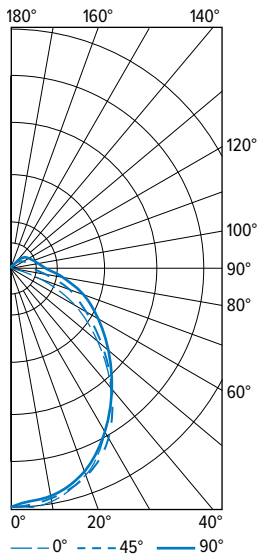
75-4-P72/840 Total Luminaire Output: 7217 lumens; 50.0 Watts | Efficacy: 144 lm/W | 83.6 CRI; 4053K CCT



VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
	0°	45°	90°	
0	2450	2450	2450	
5	2468	2443	2433	233
15	2400	2368	2362	670
25	2253	2220	2208	1026
35	2044	2002	1978	1255
45	1748	1697	1684	1314
55	1383	1337	1320	1197
65	951	905	887	906
75	492	460	449	492
85	88	98	85	122
90	8	12	8	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	1929	27
0 - 40	3184	44	
0 - 60	5694	79	
0 - 90	7214	100	
0 - 180	7217	100	

75R-4-P72/835 Total Luminaire Output: 6784 lumens; 49.0 Watts | Efficacy: 138 lm/W | 84.5 CRI; 4000K CCT



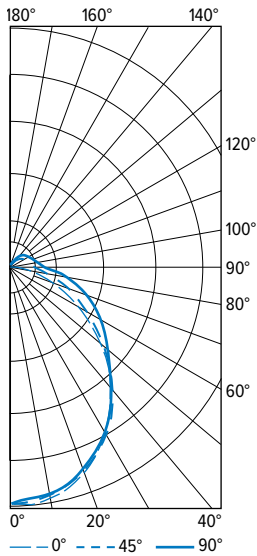
VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
	0°	45°	90°	
0	2173	2173	2173	
5	2197	2166	2139	206
15	2097	2092	2077	589
25	1890	1932	1947	888
35	1604	1710	1768	1059
45	1240	1401	1528	1073
55	840	1086	1247	951
65	520	789	936	746
75	224	528	649	514
85	53	336	420	317
90	7	260	341	
95	1	208	276	189
105	0	125	184	114
115	0	79	124	69
125	0	45	85	39
135	0	24	53	20
145	0	10	29	8
155	0	5	13	3
165	0	0	3	0
175	0	0	0	0
180	0	0	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	1682	25
0 - 40	2741	40	
0 - 60	4765	70	
0 - 90	6342	94	
90 - 120	371	6	
90 - 150	439	7	
90 - 180	442	7	
0 - 180	6784	100	



# 75 PoE | tunable **WHITE** Narrow Strip

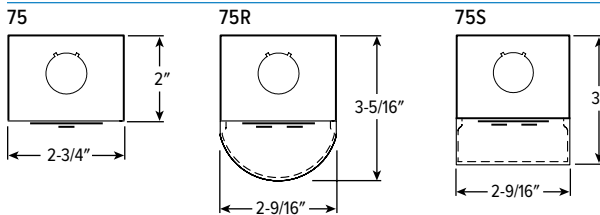
75S-4-P72/835 Total Luminaire Output: 6784 lumens; 49.0 Watts | Efficacy: 138.0 lm/W | 84.6 CRI; 4000K CCT



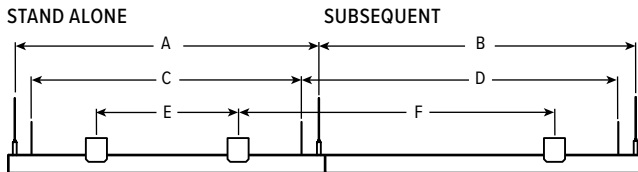
VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
	0°	45°	90°	
0	2289	2289	2289	
5	2309	2279	2246	216
15	2206	2187	2160	615
25	1970	1979	1946	907
35	1650	1684	1647	1044
45	1270	1301	1326	1013
55	882	972	1082	880
65	518	704	856	692
75	226	454	624	471
85	39	270	411	278
90	0	206	326	
95	0	193	288	187
105	0	168	244	155
115	0	143	214	125
125	0	116	181	92
135	0	81	139	60
145	0	49	94	32
155	0	30	53	13
165	0	15	26	4
175	0	0	0	0
180	0	0	0	0

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	1738	26
	0 - 40	2782	41
	0 - 60	4675	69
	0 - 90	6116	90
	90 - 120	467	7
	90 - 150	651	10
	90 - 180	668	10
	0 - 180	6784	100

## CROSS SECTIONS



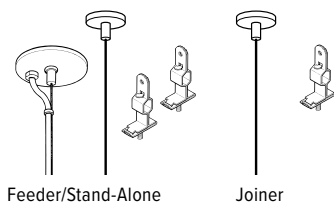
## MOUNTING DETAILS



## MOUNTING LENGTH

	AIRCRAFT CABLE		VBY HANGER		315 SPACER	
	A	B	C	D	E	F
2'	21-1/2"	22-1/2"	19"	22-1/2"	10"	22-1/2"
4'	43-5/8"	44-5/8"	41-1/4"	44-5/8"	32"	44-5/8"
8'	88-3/16"	89-1/4"	85"	89-1/4"	77"	89-1/4"

## STANDARD HARDWARE FOR SUSPENDED PRODUCT (Grid and Hardpan)



### Notes:

- Fixtures are provided with adjustable length aircraft cables 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.

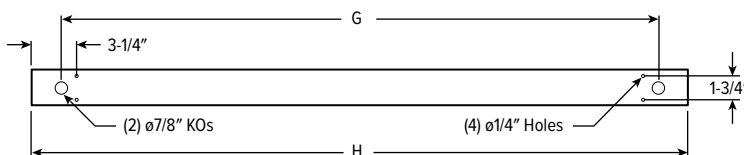
## POWER SUPPLY FOR SUSPENDED PRODUCT

Required for aircraft cable mounted fixtures. Please specify cord type using ordering information below.

EXAMPLE: P24/W		
CORD TYPE	LENGTH	COLOR
P PoE	24 24"	/W White /B Black
	48 48"	
	96 96"	

## FIXTURE DETAILS

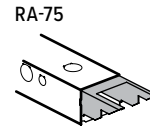
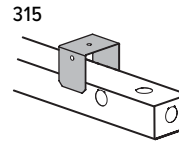
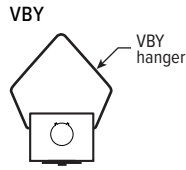
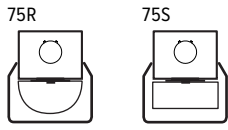
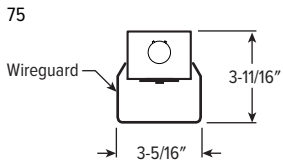
### BACKVIEW



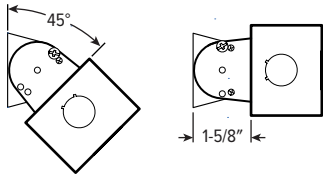
	7/8" KOs (G)	ACTUAL FIXTURE LENGTH (H)
2'	18-3/8"	22-1/2"
4'	40-1/2"	44-5/8"
8'	85-1/8"	89-1/4"

## MOUNTING ACCESSORIES DETAILS

### WG-75

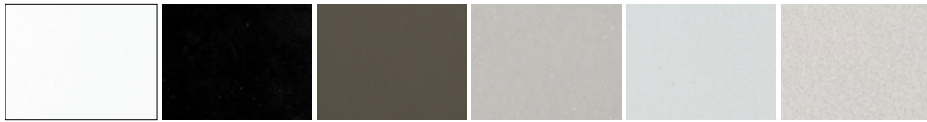


### 45AMB



## FINISH OPTIONS

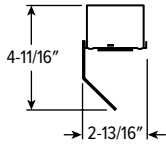
**WHITE    BLACK    BRONZE    NICKEL    SILVER    ALUMINUM**



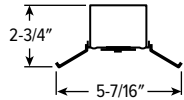
For custom color, please specify RAL code or a manufacturer code with description. All custom colors other than RAL require two sample swatches, minimum 1" square.

## SPECIAL REFLECTORS

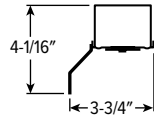
### R1015



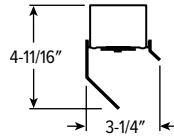
### R1172



### R1324



### R1684



Reflectors are ordered separately, only available with 75, cannot be used with wireguard accessories.

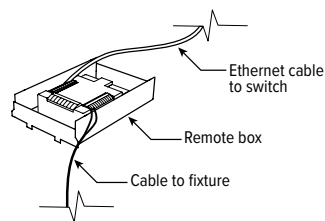
Example: R1172-4-75LED REFL

## REMOTE MOUNT DETAILS

Includes 2' plenum-rated 18ga. solid cable. Remote box can be installed in:

- Above ceiling grid
- Remote closet (within 100ft)
- Surface below ceiling

### NODE



### NODE AND EM OPTION

