

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
- Efficacies up to 136 lm/W
- Shallow fixture depth for low ceiling applications
- Diffuse ribbed acrylic combined with highly-reflective matte white paint produce high optical efficiencies while providing visual comfort
- Heavy duty C.R.S. construction
- Made Right Here™ in the USA

**ORDERING EXAMPLE: PTS - 2 4 - P65/835 - RA - OPTIONS - POE N**

**ORDERING INFO**

SERIES	WIDTH	LENGTH	LUMENS <sup>[1]</sup>	CRI	CCT	SHIELDING		
PTS	1 1' <sup>[2]</sup>	2 2' <sup>[3]</sup>	1x4	8 80	27 2700K	RA Diffuse ribbed acrylic		
		2 2'	P21 2,100lm	9 90 <sup>[4]</sup>	30 3000K	SA Square acrylic <sup>[5]</sup>		
	2 2'	4 4'	P31 3,100lm	2x2	35 3500K	50 5000K	TW Tunable white (80 CRI, 3000K–5000K)	
			P20 2,000lm		40 4000K			
	2x4	4 4'	P29 2,900lm	2x4	80 80	27 2700K	SA Square acrylic <sup>[5]</sup>	
			P21 2,100lm					P31 3,100lm
			P31 3,100lm					
			P65 6,500lm					

**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

**OPTIONS**

- EM/CP12** Remote mount 12-watt Iota emergency LED battery <sup>[7]</sup>
- AMW** Anti-microbial white finish

**CONTROL <sup>[6]</sup>**

- POE N** Power over Ethernet network node
- POE D** Power over Ethernet device node <sup>[8]</sup>

**SPECIFICATIONS**

- HOUSING** – Precision die-formed 20-gauge C.R.S.
- REFLECTOR** – Precision die-formed 22-gauge C.R.S. Highly reflective non-glare matte white polyester powder coat.
- SHIELDING** – Diffuse ribbed acrylic.
- FINISH** – Textured matte white polyester TGIC 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 board. 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 mount.
- LISTINGS** – cCSAus certified as luminaire suitable for dry or damp locations.
- WARRANTY** – 5-year limited warranty, see [hew.com/warranty](http://hew.com/warranty).

**NOTES**

- Lumen output based on 3500 CCT. Actual lumens may vary +/-5%, see page 2 for FIXTURE PERFORMANCE DATA.
- 4' length only.
- 2' width only.
- Extended lead times may apply. Consult factory for availability. Not available with Tunable White.
- Increases lumen output by 3%.
- For additional PoE info, see [hew.com/poe](http://hew.com/poe). 1' x 4' fixture requires remote mounting, see page 3 for REMOTE MOUNT DETAILS.
- Requires one additional category cable run to switch, see page 3 for REMOTE MOUNT DETAILS.
- Not available for fixtures over 40W.



**FIXTURE PERFORMANCE DATA**

**STANDARD**

	LED PACKAGE	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
1x4	P21	2143	15.8	135.7
	P31	3144	24.8	126.8
2x2	P20	2015	15.2	132.7
	P29	2908	23.4	124.5
2x4	P21	2143	16.0	133.9
	P31	3144	24.0	131.0
	P65	6550	50.0	131.0

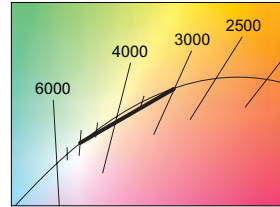
**TUNABLE WHITE**

	LED PACKAGE	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
1x4	P21	2116	16.3	129.7
	P31	3134	25.1	124.9
2x2	P20	2013	16.8	119.8
	P29	2907	25.8	112.8
2x4	P21	2116	16.3	129.7
	P31	3134	25.1	124.9
	P65	6530	50.1	130.4

**MULTIPLIER TABLES**

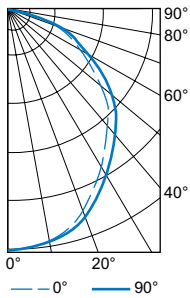
	STANDARD		TUNABLE WHITE	
	CCT	CONVERSION FACTOR	CCT	CONVERSION FACTOR
80 CRI	2700K	0.97	3000K	0.95
	3000K	0.99	3500K	0.98
	3500K	1.00	4000K	1.00
	4000K	1.03	5000K	0.96
	5000K	1.06		
90 CRI	2700K	0.82		
	3000K	0.83		
	3500K	0.84		
	4000K	0.86		
	5000K	0.90		

- 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**

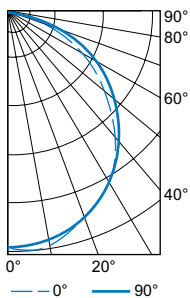
**PTS-24-P65/835-RA** Total Luminaire Output: 6550 lumens; 50 Watts | Efficacy: 131 lm/W | 82.7 CRI; 3494K CCT



VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
	0°	45°	90°	
0	2506	2506	2506	
5	2468	2464	2451	236
15	2395	2403	2413	673
25	2110	2139	2165	974
35	1706	1760	1805	1098
45	1387	1463	1538	1120
55	1008	1104	1192	990
65	653	774	879	764
75	310	475	588	500
85	63	210	241	196
90	0	0	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	1883	29
	0 - 40	2981	46
	0 - 60	5091	78
	0 - 90	6550	100
	0 - 180	6550	100

**PTS-14-P31/835-RA** Total Luminaire Output: 3144 lumens; 25 Watts | Efficacy: 127 lm/W | 84.9 CRI; 3544K CCT

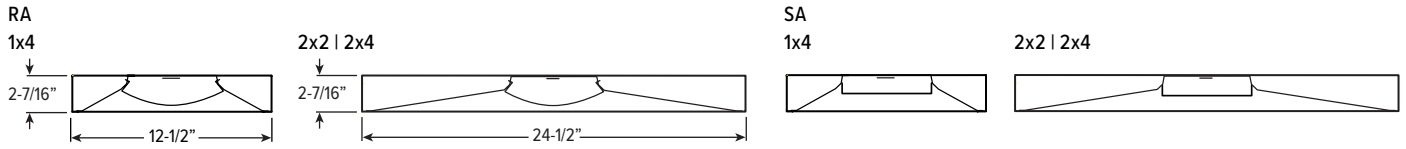


VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
	0°	45°	90°	
0	1191	1191	1191	
5	1210	1185	1180	113
15	1152	1138	1132	320
25	1044	1040	1044	478
35	896	898	920	565
45	704	738	762	568
55	506	553	598	496
65	322	380	403	366
75	144	193	197	195
85	20	33	38	44
90	0	0	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	911	29
	0 - 40	1475	47
	0 - 60	2539	81
	0 - 90	3144	100
	0 - 180	3144	100



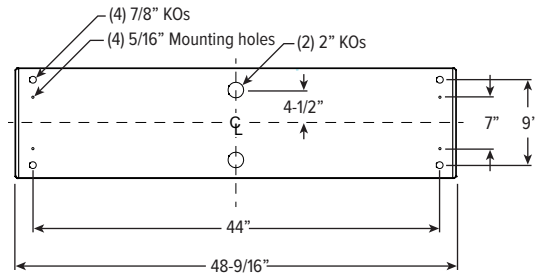
**CROSS SECTIONS**



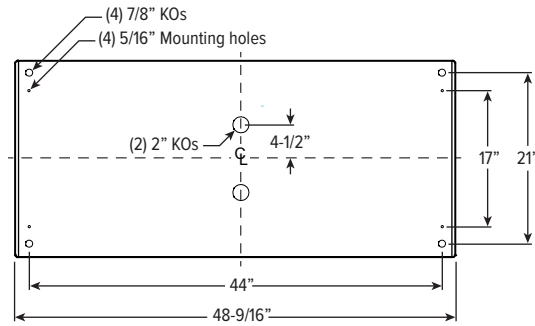
**FIXTURE DETAILS**

**BACKVIEW**

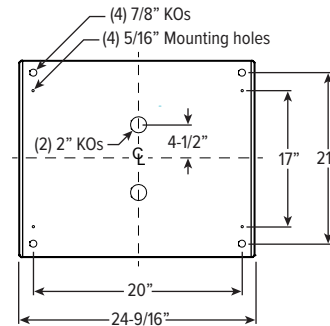
1x4



2x4



2x2

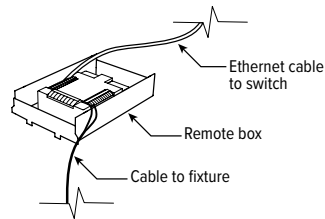


**REMOTE MOUNT DETAILS**

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**

