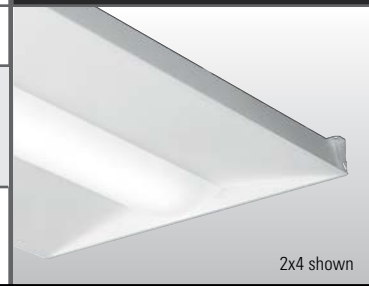


SHALLOW PLENUM TROFFER

PT

tunable **WHITE** | PoE



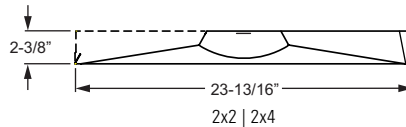
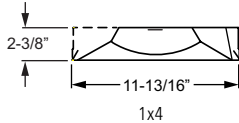
CATALOG #: _____ TYPE: _____

PROJECT: _____ NOTES: _____

EXAMPLE **PT - 2 4 - P65/835 - RA - OPTIONS - POE N**

SERIES NOM. W. NOM. L. LUMEN PACKAGE CRI & CCT SHIELDING OPTIONS CONTROL

CROSS SECTIONS



ORDERING INFORMATION

SERIES
PT Shallow Plenum LED Troffer – PoE

NOMINAL WIDTH

1	1' (4' length only)
2	2'

NOMINAL LENGTH

2	2' (2' width only)
4	4'

LED PACKAGE

EXAMPLE: P65/835		WATTAGE
LUMEN PACKAGE	NOMINAL LUMENS	
1x4		
P21	2,100	16
P33	3,300	25
P65	6,500	50
2x2		
P22	2,200	17
P31	3,100	25
P47	4,700	37
2x4		
P21	2,100	16
P33	3,300	25
P65	6,500	50

Nominal lumen output based on 3500K for single CCT and 4000K for TW. Actual lumens may vary +/-5%, see fixture performance data.

CRI & CCT

827	82 CRI, 2700K
830	82 CRI, 3000K
835	82 CRI, 3500K
840	82 CRI, 4000K
8TW	Tunable white (80 CRI, 3000K–5000K)

SHIELDING
RA Diffuse ribbed acrylic

OPTIONS¹

See hew.com/poe for compatible sensors & switches
See Technical Info for **Drywall Kit** details.

EM/CP12 Remote mount 12-watt Iota emergency LED battery (requires one additional category cable run to switch, see page 3 for details.)

EQCLIPS Earthquake clips (4 per fixture)

AMW Anti-microbial white finish

DFK-1248W Drywall kit, 12" x 48", white

DFK-2424W Drywall kit, 24" x 24", white

DFK-2448W Drywall kit, 24" x 48", white

CONTROL

For additional PoE info, see hew.com/poe
1' x 4' fixture requires remote mounting, see page 3 for details.

POE N Power over Ethernet network node

POE D Power over Ethernet device node (not available for fixtures over 40W)

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 135 lm/W
- ▶ Shallow housing depth for limited plenum applications.
- ▶ Access to the electrical from room-side of fixture.
- ▶ Diffuse ribbed acrylic combined with highly-reflective matte white paint produce high optical efficiencies while providing visual comfort.
- ▶ Companion surface and retrofit kit also available, see hew.com.
- ▶ Rated for direct contact with insulation.
- ▶ Heavy duty C.R.S. construction.
- ▶ This fixture is proudly made 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 for details

¹ The following options ship separately: DFK-1248W, DFK-2424W, DFK-2448W.



SPECIFICATIONS

Housing/Reflector – Precision die-formed 22-gauge C.R.S.

Shielding – Diffuse ribbed acrylic.

Finish – Highly reflective non-glare matte 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 >60,000 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 – NEMA Type “G” (1” nominal width grid system only). Drywall kit accessories available, ordered separately.

Labels –

- cCSAus certified as luminaire suitable for dry or damp locations.
- IC-rated for direct contact with insulation.

Warranty – 5-year limited warranty, see hew.com/warranty.

IMPORTANT:

Electrostatic sensitive unit. Observe precautions when handling.

FIXTURE PERFORMANCE DATA

STANDARD

LED PACKAGE	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
1x4			
P21	2143	16	133.9
P33	3144	25	125.8
P65	6550	50	131.0
2x2			
P22	2234	17	131.4
P31	3140	25	125.6
P47	4708	37	127.2
2x4			
P21	2143	16	133.9
P31	3144	25	125.8
P65	6550	50	131.0

TUNABLE WHITE

LED PACKAGE	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
1x4			
P21	2207	16	137.9
P33	3238	25	129.5
P65	6746	50	134.9
2x2			
P22	2301	17	135.4
P31	3234	25	129.4
P47	4849	37	131.1
2x4			
P21	2207	16	137.9
P31	3238	25	129.5
P65	6746	50	134.9

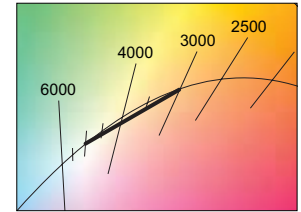
MULTIPLIER TABLES

STANDARD

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

TUNABLE WHITE

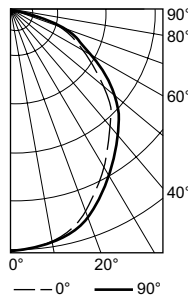
CCT	CONVERSION FACTOR
3000K	0.95
3500K	0.98
4000K	1.00
5000K	0.96



- 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 table to calculate additional options.

PHOTOMETRY

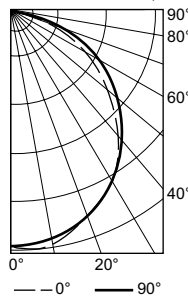
PT-24-P65/835-RA Total Luminaire Output: 6550 lumens; 50 Watts
Efficacy: 131 lm/W | 82.7 CRI; 3494K CCT | IES Spacing Crit.: End: 1.1, Across: 1.2, Diag.: 1.2



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

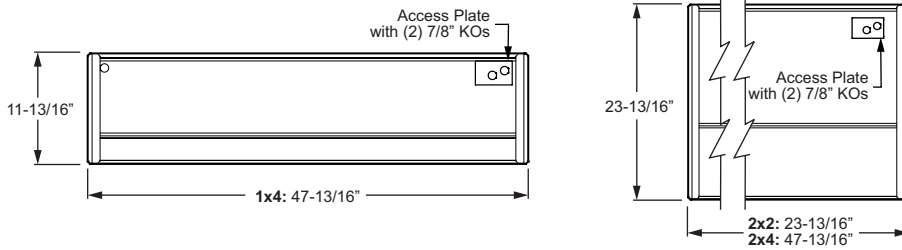
PT-14-P65/835-RA Total Luminaire Output: 6550 lumens; 50 Watts
Efficacy: 131 lm/W | 84.9 CRI; 3544K CCT | IES Spacing Crit.: End: 1.2, Across: 1.23, Diag.: 1.3



VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
	0°	45°	90°	
0	2387	2387	2387	
5	2441	2414	2378	228
15	2333	2327	2299	653
25	2134	2144	2119	981
35	1857	1881	1882	1166
45	1481	1547	1569	1179
55	1060	1165	1214	1035
65	680	806	827	771
75	302	424	442	430
85	46	76	90	106
90	0	0	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
0 - 30		1863	28
0 - 40		3029	46
0 - 60		5243	80
0 - 90		6550	100
0 - 180		6550	100

FIXTURE DETAILS



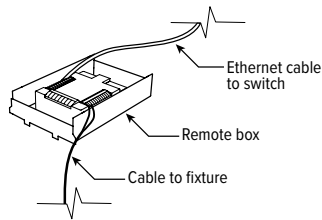
REMOTE MOUNT DETAILS

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

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

See [Technical Info](#) for dimension details.

NODE



NODE AND EM OPTION

