

SHALLOW TROFFER RETROFIT KIT

PTR

LED

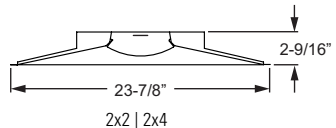
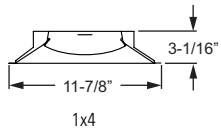
CATALOG #:	TYPE:
PROJECT:	NOTES:



EXAMPLE → **PTR - 2 4 - L90/835 - RA - OPTIONS - DIM - UNV**

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

CROSS SECTIONS



Housing provided by others, see page 3 for dimensional requirements.

ORDERING INFORMATION

SERIES
PTR Shallow Troffer Retrofit Kit

NOMINAL WIDTH

1	1'
2	2'

NOMINAL LENGTH

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

LED PACKAGE

EXAMPLE: L90/835			
LUMEN PACKAGE	NOMINAL LUMENS	MINIMUM CRI & CCT	WATTAGE
1x4			
L27	2700		21
L45	4500		34
2x2			
L26	2600	827 = 82 CRI, 2700K	21
L38	3800	830 = 82 CRI, 3000K	33
L47	4700	835 = 82 CRI, 3500K	38
2x4			
L38	3800	840 = 82 CRI, 4000K	31
L49	4900	850 = 82 CRI, 5000K	37
L61	6100		49
L90	9000		71

Nominal lumen output based on 3500 CCT. Actual lumens may vary +/-5%. See specific fixture performance data. Additional LED lumen packages available, see options.

SHIELDING
RA Diffuse ribbed acrylic

OPTIONS
EM/10W (L_) 10-watt emergency driver (120-277V only)
Additional lower lumen packages available. Specify in increments of 100 nominal lumens. Option must be specified with next higher lumen package.
Example: 8,000 nominal lumens = PTR-24-L90/835-(L80).

DRIVER
Additional dimming drivers available, see [Technical Info.](#)
DRV Driver prewired for non-dimming applications
DIM Driver prewired for 0-10V low voltage dimming applications

VOLTAGE

120	120V
277	277V
UNV	120-277V

FEATURES

- ▶ Upgrade existing fixtures to energy-efficient LED source.
- ▶ Quick and easy installation using existing housing in applications where fixture replacement is not practical.
- ▶ Tool-less access to the electrical from room-side of fixture.
- ▶ Diffuse ribbed acrylic provides smooth illumination and visual comfort.
- ▶ Designed to fit into most 1x4, 2x2, and 2x4 fixture housings with a minimum fixture depth of 3-3/8".
- ▶ Efficacies up to 134 lm/W
- ▶ Paint-after-fabrication provides easy-to-handle finished edges that resist corrosion and improve appearance.
- ▶ This fixture is proudly made in the USA.

NOTE: H.E. Williams, Inc. recommends installing a trial fixture prior to ordering full project quantities.



LED

SPECIFICATIONS

Housing – Provided by others, must fit within approved minimum dimensions.

Reflector/Wireway Cover – 25-gauge C.R.S.

Shielding – Diffuse ribbed acrylic.

Finish – 92% minimum average reflective white powder coat.

Electrical – High quality mid-power LED boards. L70 >50,000 hours.

Mounting – Designed to retrofit existing troffers and parabolics in 1" nominal grid ceiling applications.

Listings –

- cCSAus certified as luminaire suitable for dry or damp locations.
- DesignLights Consortium qualified product. Not all versions of this product may be DLC qualified, see the DLC Qualified Products List at www.designlights.org/QPL.

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

IMPORTANT:

Electrostatic sensitive unit. Observe precautions when handling.

FIXTURE PERFORMANCE DATA

LED PACKAGE	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
1x4			
L27	2723	21.4	127.4
L45	4526	33.7	134.3
2x2			
L26	2633	21.3	123.6
L38	3804	32.6	116.7
L47	4708	38.1	123.4
2x4			
L38	3763	31.4	119.7
L49	4928	37.2	132.6
L61	6059	48.5	124.9
L90	9018	71.4	126.4

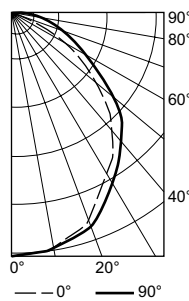
- Photometrics tested in accordance with IESNA LM-79. Results shown are based on 25°C ambient temperature.
- Wattage shown is average for 120V through 277V input.
- Results based on 3500K, 80 CRI, actual lumens may vary +/-5%
- Use multiplier table to calculate additional options.

MULTIPLIER TABLE

COLOR TEMPERATURE	
CCT/CRI	CONVERSION FACTOR
2700K/80CRI	0.97
3000K/80CRI	0.99
3500K/80CRI	1.00
4000K/80CRI	1.03
5000K/80CRI	1.06

PHOTOMETRY

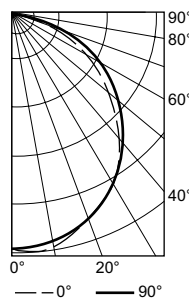
PTR-24-L90/835-RA-DIM-UNV Total Luminaire Output: 9018 lumens; 71.4 Watts | Efficacy: 126 lm/W | 82.7 CRI; 3494K CCT



VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
	0°	45°	90°	
0	3405	3405	3405	
5	3388	3388	3390	322
15	3167	3181	3201	907
25	2803	2850	2891	1324
35	2356	2444	2527	1529
45	1917	2069	2190	1572
55	1349	1525	1673	1362
65	875	1081	1246	1054
75	406	645	817	681
85	81	290	340	267
90	0	0	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	2553	28
	0 - 40	4082	45
	0 - 60	7016	78
	0 - 90	9018	100
	0 - 180	9018	100

PTR-14-L45/835-RA-DIM-UNV Total Luminaire Output: 4526 lumens; 33.7 Watts | Efficacy: 134 lm/W | 84.9 CRI; 3544K CCT



VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
	0°	45°	90°	
0	1649	1649	1649	
5	1687	1668	1643	158
15	1612	1608	1588	451
25	1475	1482	1464	678
35	1283	1300	1301	806
45	1023	1069	1084	815
55	733	805	839	715
65	470	557	571	532
75	209	293	305	297
85	32	53	62	73
90	0	0	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	1287	28
	0 - 40	2093	46
	0 - 60	3623	80
	0 - 90	4526	100
	0 - 180	4526	100

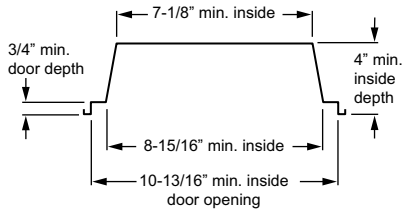
RETROFIT GUIDE

FLUORESCENT	WATTAGE	LED	WATTAGE	SAVINGS
1 - 32W T8	31	PTR-14-L27/	21	32%
2 - 32W T8	58	PTR-14-L45/	34	41%
3 - 17W T8	48	PTR-22-L47/	38	20%
2 - 32W T8	58	PTR-24-L49/	37	36%
3 - 32W T8	88	PTR-24-L61/	49	45%
4 - 32W T8	112	PTR-24-L90/	71	37%

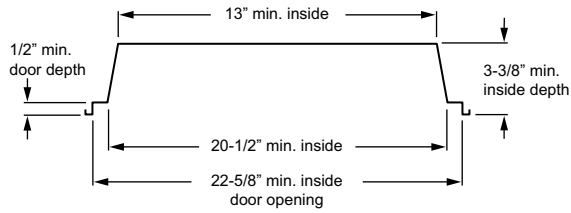
FIXTURE DETAILS

The PTR retrofit kit is designed to fit the following fixture housing dimensions. H.E. Williams, Inc. recommends a trial installation prior to purchasing full quantities.

WIDTH 1x4

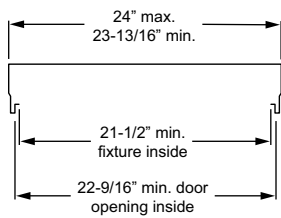


2x2 | 2x4



LENGTH

2x2 LENGTH



1x4 | 2x4 LENGTH

