

CATALOG #: _____

TYPE: _____

PROJECT: _____



FEATURES

- Upgrade existing fixtures to energy-efficient LED source
- Installs in less than 3 minutes without disrupting the ceiling plenum
- Uniform ambient illumination
- Round or square diffuse ribbed acrylic lens options enhance the space
- Designed to fit into most 1x4, 2x2, and 2x4 fixture housings with a minimum fixture depth of 3-3/8"
- HE option delivers superior efficacies up to 173 lm/W
- Reduces energy consumption up to 40%
- Wireless in-fixture control solutions available
- Made Right Here® in the USA

ORDERING EXAMPLE: PTR - 2 4 - L90/835 - RA - OPTIONS - CONTROL/DIM - UNV

SERIES	WIDTH	LENGTH	LUMENS ⁽¹⁾	CRI	CCT	SHIELDING
PTR	1 1' ⁽²⁾	2 2'	1x4	8 80	27 2700K	RA Diffuse ribbed acrylic, round
	2 2'	4 4'	L27 2,700lm L45 4,500lm L61 6,100lm L80 8,000lm	9 90	30 3000K 35 3500K 40 4000K 50 5000K	SA Diffuse ribbed acrylic, square ⁽³⁾
			2x2			
			L26 2,600lm L38 3,800lm L47 4,700lm L61 6,100lm			
			2x4			
			L38 3,800lm L49 4,900lm L61 6,100lm L90 9,000lm L110 11,000lm			

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. All parts painted after fabrication to facilitate installation, increase efficiency, and inhibit corrosion.
- ELECTRICAL – High-quality mid-power LED boards. L70 > 72,000 hours per IES TM-21. L80 > 102,000 hours with HE option. 50/60 Hz constant current driver.
- 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.
 - Build America, Buy America (BABA) and Buy American Act (BAA) compliant. Request certification at hew.com/buy-american
- WARRANTY – 5-year limited warranty, see hew.com/warranty

OPTIONS

- EM/10W 10-watt emergency battery
- EM/12W 12-watt emergency battery⁽⁵⁾
- (L_) Additional lower lumen packages available⁽⁶⁾
Example: 8,000 lumens = PTR-24-L90/835-(L80)
- HE High efficacy lumen package⁽⁷⁾

CONTROL⁽⁴⁾

- Click [HERE](#) for control and sensor options.
- None

DRIVER

See page 3 for **ADDITIONAL DRIVER OPTIONS.**

- DIM Driver with external 0-10V dimming wires
- DIM1 1% Driver with external 0-10V dimming wires
- DRV Driver without external dimming wires

VOLTAGE

- 120 120V
- 277 277V
- UNV 120-277V
- 347 347V⁽⁸⁾

NOTES:

H.E. Williams, Inc. strongly recommends installing a trial fixture to confirm fitment on-site prior to ordering full project quantities.

NOTES

- Lumen output based on 80 CRI/3500K CCT, RA shielding. Actual performance may vary +/-5%, see page 2 for FIXTURE PERFORMANCE DATA.
- 4' length only.
- Increases lumen output by 3%.
- See page 3 for SENSOR & NODE PLACEMENT DETAILS.
- Not available when CEC regulations are required.
- Specify in increments of 100 nominal lumens. Option must be specified with next higher lumen package.
- Not available with 90 CRI or 1x4 L27 lumen package. See page 2 for FIXTURE PERFORMANCE DATA.
- Not available with EM batteries.



FIXTURE PERFORMANCE DATA

	LED PACKAGE	DELIVERED LUMENS	STANDARD		HE OPTION ^[1]	
			WATTAGE	EFFICACY (lm/W)	WATTAGE	EFFICACY (lm/W)
1x4	L27	2626	18.8	140	—	—
	L45	4316	30.4	142	26.7	162
	L61	6181	45.5	136	35.8	173
	L80	7978	61.9	129	49.9	160
2x2	L26	2924	21.5	136	17.2	170
	L38	3804	32.6	117	23.0	166
	L47	4708	38.1	124	29.9	158
	L61	6073	50.2	121	40.7	149
2x4	L38	3782	28.5	133	23.1	164
	L49	5078	36.7	138	29.5	172
	L61	6181	45.5	136	35.8	173
	L90	9060	66.6	136	56.9	159
	L110	11086	83.7	132	69.4	160

MULTIPLIER TABLE

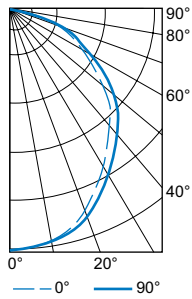
	COLOR TEMPERATURE	
	CCT	CONVERSION FACTOR
80 CRI	2700K	0.97
	3000K	0.99
	3500K	1.00
	4000K	1.03
	5000K	1.06
90 CRI	2700K	0.82
	3000K	0.83
	3500K	0.84
	4000K	0.86
	5000K	0.90

¹ Not available with 90 CRI.

- Photometrics tested in accordance with IESNA LM-79. Results based on RA Shielding, 80 CRI/3500K CCT, average wattage for 120V through 277V input, and 25°C ambient temperature. Actual performance may vary +/-5%.
- To calculate lumen output in emergency mode, multiply the battery wattage by the efficacy.
- Use multiplier table to calculate additional options.

PHOTOMETRY

PTR-24-L110/835-RA-DIM-UNV Total Luminaire Output: 11086 lumens; 83.7 Watts | Efficacy: 132 lm/W | 80 CRI; 3500K CCT



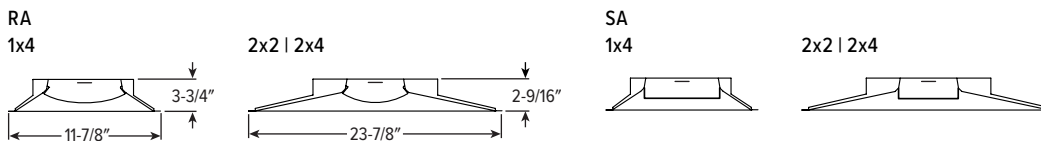
CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
		0°	45°	90°	
	0	4241	4241	4241	
	5	4177	4171	4149	399
	15	4054	4067	4084	1139
	25	3572	3620	3664	1649
	35	2887	2979	3055	1859
	45	2347	2477	2603	1896
	55	1707	1868	2018	1675
	65	1105	1310	1488	1293
	75	524	805	996	846
	85	106	355	407	332
	90	0	0	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	3186	29
	0 - 40	5045	46
	0 - 60	8616	78
	0 - 90	11086	100
	0 - 180	11086	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%

CROSS SECTIONS



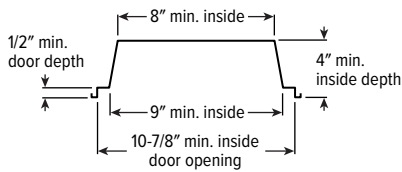
PTR LED Shallow Troffer Retrofit Kit

FIXTURE DETAILS

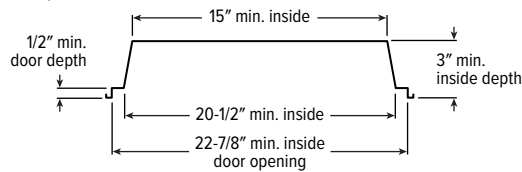
The PTR retrofit kit is designed to fit the following fixture housing dimensions. H.E. Williams, Inc. recommends a trial installation prior to purchasing full quantities.

WIDTH

1x4

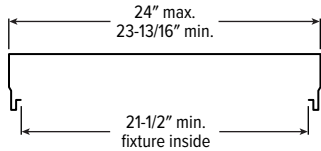


2x2 | 2x4

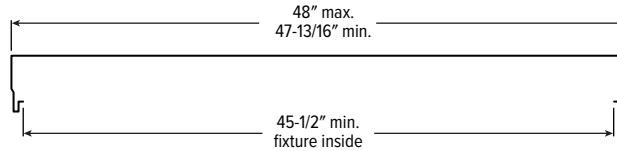


LENGTH

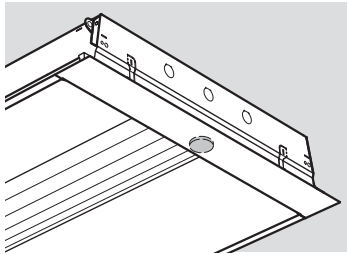
2x2



1x4 | 2x4



SENSOR & NODE PLACEMENT DETAILS



ADDITIONAL DRIVER OPTIONS

Note: Restrictions may apply, consult product builder at hew.com/product-builder

CATALOG NUMBER	DESCRIPTION
DRV	Driver without external dimming wires prewired for non-dimming applications
DIM	Driver with external dimming wires prewired for 0-10V low voltage applications
DIM1	1% driver with external dimming wires prewired for 0-10V low voltage applications
DIM LINE	Line voltage dimming driver (TRIAC and ELV compatible, 120V only)
DIM TRC	Line voltage dimming driver (TRIAC compatible, 120V only)
DA	Driver with 12V auxiliary power, without external dimming wires (not available with 347V)
DALI	DALI dimming driver
SD40	40% step-dimming driver
SD50	50% step-dimming driver
LDE1	Lutron Hi-lume 1% EcoSystem dimming driver
LD2	Lutron DALI-2 digital driver, 1%

