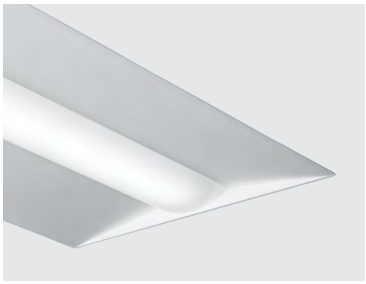
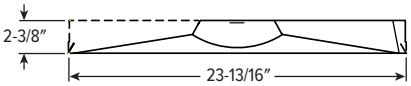
PT LED Shallow Plenum Troffer





2x2 | 2x4
Shown with RA lens

CATALOG #:

TYPE:

PROJECT:

FEATURES

- Room-side access
- Ultra slim 2-3/8″ for minimal plenum space
- Round or square diffuse ribbed acrylic lens options enhance the space
- Companion surface and retrofit kit preserve continuity, see hew.com/PT
- HE option delivers superior efficacies up to 173 lm/W
- Rated for direct contact with insulation
- Anti-microbial finish option suppresses the spread of dangerous micro-organisms, mold, and bacterial growth
- Support human-centric design with adaptive, individualized lighting using tunable white light
- Wireless in-fixture control solutions available
- Available on QuickShip at hew.com/PT_quickship.pdf
- Made Right Here® in the USA

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 > 72,000 hours per IES TM-21. L80 > 102,000 hours with HE option. 50/60 Hz constant current driver. Tunable White products use LEDs of multiple shades of white from single-CCT products at the same CCT. All CCTs are within 3 MacAdam ellipses.
- MOUNTING – NEMA Type “G” 15/16″ or 1″ grid standard. For NEMA Type “NFG” and “SG” 9/16″ grid installations, specify EQCLIPS option. Drywall kit accessories available for flange applications, shipped separately, see options.
- LISTINGS –
  - cCSAus certified as luminaire suitable for dry or damp locations.
  - IC-rated for direct contact with insulation.
  - City of Chicago Environmental Air approved when specified with CP option.
  - 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
  - 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

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

SERIES
PT

WIDTH
1 1′ [2]
2 2′

LENGTH
2 2′
4 4′

LUMENS [1]

1x4
L27 2,700lm
L45 4,500lm
L61 6,100lm [3]
L80 8,000lm [4]

2x2
L26 2,600lm
L43 4,300lm
L52 5,200lm [5]
L61 6,100lm [6]

2x4
L38 3,800lm
L49 4,900lm
L61 6,100lm
L90 9,000lm [7]
L110 11,000lm [8]

CRI
8 80
9 90

CCT
27 2700K
30 3000K
35 3500K
40 4000K
50 5000K
TW Tunable white (3000K-5000K)
TW2 Tunable white (2700K-6500K)

SHIELDING
RA Diffuse ribbed acrylic, round
SA Diffuse ribbed acrylic, square [9]

OPTIONS [10]

*See page 3 for **FLEXIBLE WHIP OPTIONS.***

EM/10W	10-watt emergency battery [12]
EM/10WLP	Low-profile 10-watt emergency battery [13]
EM/10W/ST	10-watt self-diagnostic emergency battery
EM/12W	12-watt emergency battery [14]
EQCLIPS	Earthquake clips [15]
(L__)	Additional lower lumen packages available [16] Example: 8,000 lumens = PT-24-L90/835-**(L80)**
HE	High efficacy lumen package [17]
AMW	Anti-microbial white finish
CP	Chicago Plenum (CCEA)
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 [11]

*Click **HERE** for control and sensor options.*

– None

DRIVER

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

DIM	Driver with external 0-10V dimming wires [19]
DIM1	1% Driver with external 0-10V dimming wires [20]
DRV	Driver without external dimming wires [21]

VOLTAGE

120 120V
277 277V
UNV 120-277V
347 347V [18]

NOTES

1 Lumen output based on RA Shielding, 80 CRI, 3500K for static white and 4000K for tunable white. Actual performance may vary +/-5%, see page 2 for FIXTURE PERFORMANCE DATA. Additional lumen packages available, see Options.
2 4′ length only.
3 Static white CCT only.
4 Static white CCT only.
5 Static white CCT only.
6 Static white CCT only.
7 Static white CCT only.
8 Static white CCT only.
9 Increases lumen output by 3%.
10 See page 3 for DRYWALL KIT (DFK) OPTIONS.
11 See page 3 for SENSOR & NODE PLACEMENT DETAILS.
12 2x2 & 2x4 only.
13 1x4 only.
14 2x2 & 2x4 only. Not available when CEC regulations are required.
15 4 per fixture. Optional for 1″ grid installations. Required for 9/16″ grid mounting.
16 Specify in increments of 100 nominal lumens. Option must be specified with next higher lumen package.
17 Not available with tunable white or 90 CRI or 1x4 L27 lumen package. See page 2 for FIXTURE PERFORMANCE DATA.
18 Not available with tunable white or EM batteries.
19 0.1% Driver with tunable white.
20 Not available with tunable white.
21 Not available with tunable white.

PT LED
Shallow Plenum Troffer

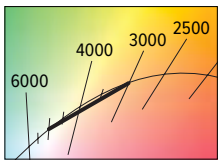
FIXTURE PERFORMANCE DATA

			STANDARD		HE OPTION [1]	
	LED PACKAGE	DELIVERED LUMENS	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
	L43	4194	32.2	130	27.2	154
	L52	5331	41.6	128	34.5	155
	L61	6073	50.2	121	41.1	148
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

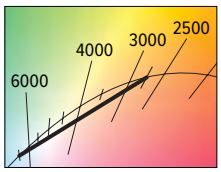
MULTIPLIER TABLE

	COLOR TEMPERATURE			
	CCT	STANDARD	TW	TW2
80 CRI	2700K	0.97	–	0.93
	3000K	0.99	0.95	0.95
	3500K	1.00	0.98	0.98
	4000K	1.03	1.00	1.00
	5000K	1.06	0.96	1.02
	6500K	–	–	1.01
90 CRI	2700K	0.80	–	0.93
	3000K	0.82	0.91	0.95
	3500K	0.83	0.96	0.98
	4000K	0.86	1.00	1.00
	5000K	0.89	1.03	1.03
	6500K	–	–	1.02

TW



TW2

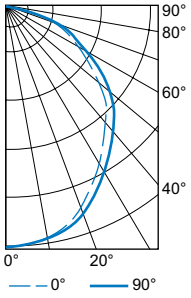


[1] Not available with 90 CRI.

- Photometrics tested in accordance with IESNA LM-79. Results based on RA Shielding, 80 CRI, 3500K for single CCT and 4000K for tunable white, 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

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



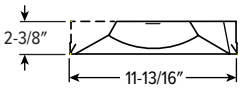
CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
		0°	45°	90°	
	0	4241	4241	4241	
	5	4177	4171	4149	399
	15	4054	4067	4084	1139
	25	3572	3620	3664	1649
	35	2887	2979	3055	1859
	45	2347	2477	2603	1896
	55	1707	1868	2018	1675
	65	1105	1310	1488	1293
	75	524	805	996	846
	85	106	355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

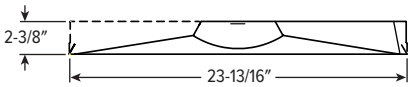
CROSS SECTIONS

RA

1x4

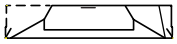


2x2 | 2x4



SA

1x4



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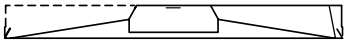
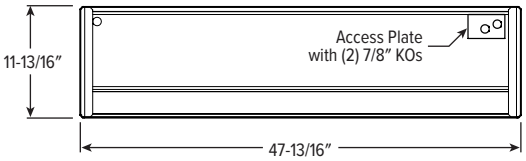


FIXTURE DETAILS

See hew.com/power-entry for power entry details.

BACKVIEWS

1x4



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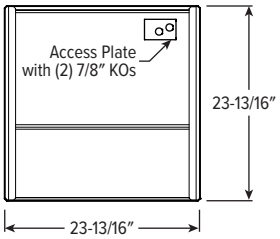

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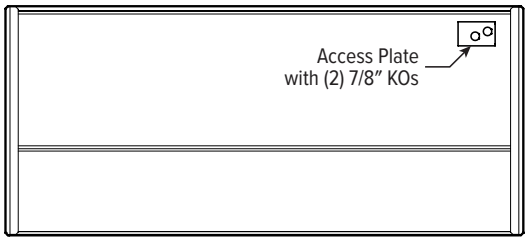


PT LED Shallow Plenum Troffer

FLEXIBLE WHIP OPTIONS

All Williams recessed troffers are available with a flexible metallic wiring harness, factory-attached and hard-wired to the luminaire.

Straight connectors are a snap-in type. Consult factory for wiring harness utilizing connectors secured by lock nuts, optional flex size, lengths, and other wire sizes or circuitry. Three-wire flex utilizes black, white, and green wire. Four-wire flex utilizes black, white, red, and green wire. Adding an emergency option requires an additional wire.

Williams fixtures are UL listed to provide factory-installation of several manufacturers' modular wiring devices, consult factory for availability and ordering information.

DESIGNATION	DESCRIPTION	DRIVER
F338B	6′ of 3/8″ flex, (3) No. 18 AWG wires with (2) straight connectors	DRV, LTE LINE
F348D	6′ of 3/8″ flex, (4) No. 18 AWG wires with (2) straight connectors	DRV + EM, SD40
F334B	6′ of 3/8″ flex, (3) No. 14 AWG wires with (2) straight connectors	DRV, LTE LINE
F344D	6′ of 3/8″ flex, (4) No. 14 AWG wires with (2) straight connectors	SD40
F354AB	6′ of 3/8″ flex, (5) No. 14 AWG wires with (2) straight connectors	DIM, DALI
F358AB	6′ of 3/8″ flex, (5) No. 18 AWG wires with (2) straight connectors	DIM, DALI
F368Y	6′ of 3/8″ flex, (6) No. 18 AWG wires with (2) straight connectors	DIM, DIM + EM, DALI

DRYWALL KIT (DFK) OPTIONS

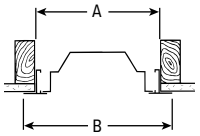
ORDERING INFO

EXAMPLE: DFK - 24 48 W			
SERIES	WIDTH	LENGTH	FINISH
DFK Drywall kit	**12** 1′	**48** 4′	**W** White
	24 2′	**24** 2′	**AMW** Anti-microbial white
	24 2′	**48** 4′	

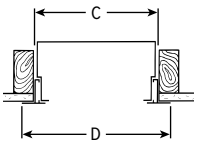
INSTALLATION DIMENSIONS

NOMINAL SIZE	ROUGH-IN		FINISH TRIM SIZE	
	WIDTH (A)	LENGTH (C)	WIDTH (B)	LENGTH (D)
1′ x 4′	12-3/8″	48-3/8″	13-5/16″	49-5/16″
2′ x 2′	24-3/8″	24-3/8″	25-5/16″	25-5/16″
2′ x 4′	24-3/8″	48-3/8″	25-5/16″	49-5/16″

TYPICAL INSTALLATION

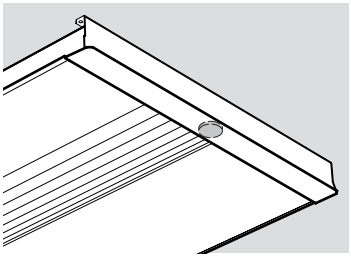


Width



Length

SENSOR & NODE PLACEMENT DETAILS



ADDITIONAL DRIVER OPTIONS

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

CATALOG NUMBER	DESCRIPTION
DRV [1]	Driver without external dimming wires prewired for non-dimming applications
DIM	Driver with external dimming wires prewired for 0-10V low voltage applications (tunable white: (1) 0-10V signal controls 0.1% dimming and (1) 0-10V signal controls CCT)
DIM1 [1]	1% driver with external dimming wires prewired for 0-10V low voltage applications
DIM LINE [1]	Line voltage dimming driver (TRIAC and ELV compatible, 120V only)
DIM TRC [1]	Line voltage dimming driver (TRIAC compatible, 120V only)
DA	Driver with 12V auxiliary power, without external dimming wires (not available with 347V)
DSR	DALI-2 sensor-ready driver without external dimming wires (Not available with 347V. Static CCTs use D4i DALI-2 driver)
DALI	DALI dimming driver
DMX	Driver prewired for DMX applications
SD40 [1]	40% step-dimming driver
SD50 [1]	50% step-dimming driver
LDE1 [1]	Lutron Hi-lume 1% EcoSystem dimming driver
LD2	Lutron DALI-2 digital driver, 1%
DCC	Remote UL Class 2 DC constant current supply, UL- or CSA-listed, by others

[1] Single CCT only.

TUNABLE WHITE DRIVER DETAILS

DIM

DALI

DMX

LD2