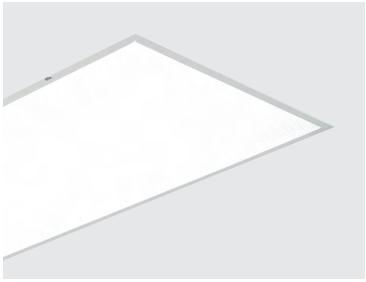
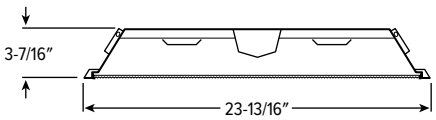
LPT LED Low-Profile Troffer





CATALOG #:

TYPE:

PROJECT:

FEATURES

- 3-7/16″ deep housing installs easily within limited plenum space
- Gasketed door frame features offset mitered corners to eliminate light leaks
- Cam latches close securely and allow hassle-free maintenance
- Reversible door hinges and latches allow access on either side
- Deep reinforcement ribs provide added strength
- Integral T-bar clips quickly secure fixture to structure
- Maximize energy savings with efficacies as high as 137 lm/W
- Support human-centric design with adaptive, individualized lighting using tunable white light
- Wireless in-fixture control solutions available
- Made Right Here® in the USA

SPECIFICATIONS

- HOUSING – 22-gauge die-formed C.R.S.
- DOOR FRAME – 22-gauge C.R.S., offset mitered corners, cam latches, and T-style hinges.
- SHIELDING – Frosted acrylic, pattern #12, .095″ thick.
- FINISH – 92% minimum average reflective 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. L85 at 50,000 hours per IES TM-21. 25°C maximum ambient operating temperature. 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 flange kit available, shipped separately, see page 3 for DRYWALL KIT (DFK) OPTIONS.
- LISTINGS –
  - cCSAus certified as luminaire suitable for dry or damp locations.
  - IC-rated for direct contact with insulation.[15]
  - City of Chicago Environmental Air approved when specified with CP option.
  - 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: LPT - 2 4 - L90/835 - S AF12095 - OPTIONS - CONTROL/DIM - UNV

SERIES	WIDTH	LENGTH	LUMENS [1]	CRI	CCT	DOOR FRAME
LPT	**2** 2′	**2** 2′ [2]	**2x2**	**8** 80	**27** 2700K	**S** White flat steel
		4 4′	**L27** 2,700lm	**9** 90	**30** 3000K	
			L45 4,500lm		**35** 3500K	
			L54 5,400lm [3]		**40** 4000K	
			2x4		**50** 5000K	
			L43 4,300lm		**TW** Tunable white (3000K–5000K)	
			L75 7,500lm		**TW2** Tunable white (2700K-6500K)	
			L90 9,000lm [4]			

SHIELDING

AF12095	Frosted acrylic, pattern #12, .095″ thick
A12125	Clear acrylic, pattern #12, .125″ thick [5]
AF12125	Frosted acrylic, pattern #12, .125″ thick
A19156	Clear acrylic, pattern #19, .156″ thick [6]
AF19156	Frosted acrylic, pattern #19, .156″ thick

OPTIONS

*See page 2 for **EMERGENCY BATTERY OPTIONS**.*
*See page 3 for **FLEXIBLE WHIP OPTIONS**.*
*See page 3 for **DRYWALL KIT (DFK) OPTIONS**.*

EQCLIPS	Earthquake clips [7]
(L__)	Additional lower lumen packages available [8] Example: 8,000 nominal lumens = LPT-24-L90/835-SAF12095-**(L80)**.
F338	6′, 3/8″ flex, 3-conductor, No. 18 AWG [9]
F348	6′, 3/8″ flex, 4-conductor, No. 18 AWG [10]
CP	Chicago Plenum (CCEA)

CONTROL [11]

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

– None

DRIVER

*See page 4 for **ADDITIONAL DRIVER OPTIONS**.*

DIM	Driver with external 0-10V dimming wires [12]
DIM1	1% Driver with external 0-10V dimming wires [13]
DRV	Driver without external dimming wires [14]

VOLTAGE

120	120V
277	277V
UNV	120-277V

NOTES

1. Lumen output based on AF12095 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 package available, see options.
2. 2′ width only.
3. Not available with tunable white.
4. Not available with tunable white.
5. LED pixelation will be visible.
6. LED pixelation will be visible.
7. 4 per fixture. Optional for 1″ grid installations. Required for 9/16″ grid mounting.
8. Specify in increments of 100 nominal lumens. Option must be specified with next higher lumen package.
9. DRV only.
10. DRV only.
11. See page 3 for SENSOR & NODE PLACEMENT DETAILS.
12. 0.1% Driver with tunable white.
13. Not available with tunable white.
14. Not available with tunable white.
15. IC rating does not apply when L54 and L90 lumen stops are specified with EM options.

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FIXTURE PERFORMANCE DATA

	LED PACKAGE	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
2x2	L27	2662	21.4	124
	L45	4425	33.7	131
	L54	5376	42.4	127
2x4	L43	4306	31.4	137
	L75	7556	61.0	124
	L90	9031	67.4	134

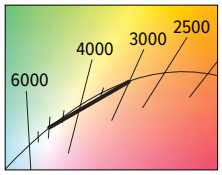
- Photometrics tested in accordance with IESNA LM-79. Results based on AF12095 shielding, 80 CRI, 3500K for static white and 4000K for tunable white, average wattage for 120V through 277V input, and 25°C ambient temperature. Actual performance may vary +/-5%
- To calculate lumen output in emergency mode, multiply the battery wattage by the efficacy.
- Use multiplier tables to calculate additional options.

MULTIPLIER TABLE

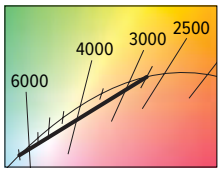
	COLOR TEMPERATURE			
	CCT	STANDARD	TW	TW2
80 CRI	2700K	0.97	–	0.93
	3000K	0.99	0.95	0.95
	3500K	1.00	0.98	0.98
	4000K	1.03	1.00	1.00
	5000K	1.06	0.96	1.02
	6500K	–	–	1.01
90 CRI	2700K	0.80	–	0.93
	3000K	0.82	0.91	0.95
	3500K	0.83	0.96	0.98
	4000K	0.86	1.00	1.00
	5000K	0.89	1.03	1.03
	6500K	–	–	1.02

LENS	CONVERSION FACTOR
AF12095	1.00
AF12125	1.00
AF19156	0.98
A12125	0.99
A19156	0.94

TW

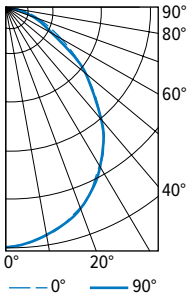


TW2



PHOTOMETRY

LPT-24-L90/835-SAF12095-DIM Total Luminaire Output: 9031 lumens; 67.4 Watts | Efficacy: 133lm/W | 80 CRI; 3500K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
		0°	45°	90°	
	0	4131	4131	4131	
	5	4070	4066	4066	386
	15	3852	3852	3856	1089
	25	3477	3477	3490	1597
	35	2892	2892	2900	1798
	45	2146	2115	2082	1629
	55	1378	1304	1250	1186
	65	788	716	718	744
	75	398	378	428	433
	85	152	154	186	168
	90	0	0	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	3072	34
	0 - 40	4870	54
	0 - 60	7685	85
	0 - 90	9031	100
	0 - 180	9031	100

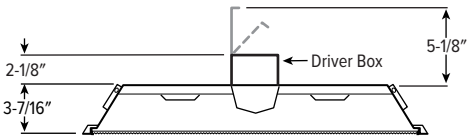
EMERGENCY BATTERY OPTIONS

Specify CEC in the option code when California Energy Commission regulations are required.

CATALOG NUMBER	DESCRIPTION
EM/10W	10-watt emergency battery [1]
EM/10W/ST	10-watt self-diagnostic emergency battery
EM/10W/BMTD	Back-mounted 10-watt emergency battery [2]
EM/12W/BMTD	Back-mounted 12-watt emergency battery [3]
EM/14W	14-watt emergency battery [1]
EM/14W/BMTD	Back-mounted 14-watt emergency battery [2]

[1] 2x4 only.
[2] 2x2 only.
[3] Not available when CEC regulations are required.

BMTD DETAILS

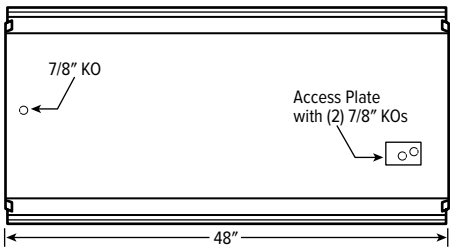


Additional plenum depth is required for installation and servicing. Not available with NEMA Type "F" applications. Access required through adjacent tile in grid system.

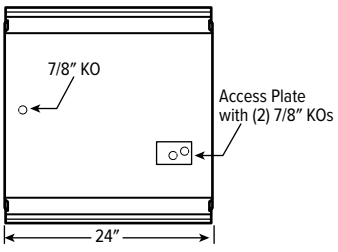
FIXTURE DETAILS

BACKVIEW

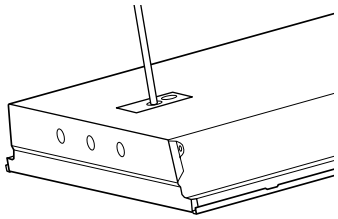
2x4



2x2



POWER ENTRY



LPT LED Low-Profile 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

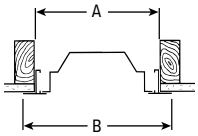
ORDERING INFO

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

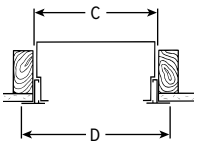
INSTALLATION DIMENSIONS

NOMINAL SIZE	ROUGH-IN		FINISH TRIM SIZE	
	WIDTH (A)	LENGTH (C)	WIDTH (B)	LENGTH (D)
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

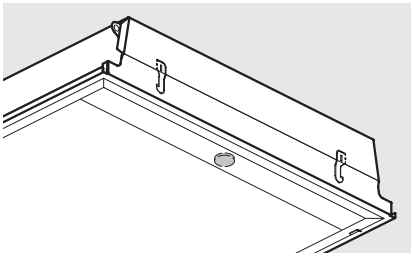


Width



Length

SENSOR & NODE PLACEMENT DETAILS



SEE NEXT PAGE FOR ADDITIONAL DRIVER OPTIONS.

ADDITIONAL DRIVER OPTIONS

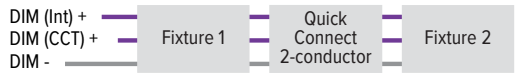
Note: Restrictions may apply, consult product builder at hew.com/product-builder

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

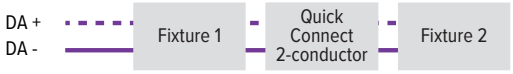
1 Single CCT only.

TUNABLE WHITE DRIVER DETAILS

DIM



DMX

DALI

LD2