LT

PoE | tunable WHITE Troffer

Williams

3-7/8"

23-13/16"

2x2 | 2x4 Shown

CATALOG #: _____

TYPE: _____

PROJECT: _____

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
▪ Low-profile depth for shallow plenum applications
▪ Diffuse lens provides smooth illumination for visual comfort
▪ Air return capability reduces number of unsightly ceiling vents for a cleaner appearance
▪ Surface mount kit preserves continuity
▪ Maximize energy savings with efficacies as high as 134 lm/W
▪ Made Right Here® 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

SPECIFICATIONS

▪ HOUSING/REFLECTOR – Precision die-formed 22-gauge C.R.S.
▪ SHIELDING – Frosted 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 >50,000 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.
▪ LISTINGS – cCSAus certified as luminaire suitable for dry or damp locations.
▪ WARRANTY – 5-year limited warranty, see hew.com/warranty.

ORDERING EXAMPLE: LT - 2 4 - P65/835 - AF - OPTIONS - POE N

ORDERING INFO

SERIES	WIDTH	LENGTH	LUMENS [1]	CRI	CCT	SHIELDING
LT Static	1 1' [3]	2 2' [4]	**1x4**	8 80	30 3000K	AF Frosted acrylic
LT-AR Air Return [2]	2 2'	4 4'	P21 2,100lm	9 90 [5]	35 3500K	
			P31 3,100lm		40 4000K	
			P65 6,500lm		50 5000K	
			2x2		8TW Tunable white (80 CRI, 3000K-5000K)	
			P21 2,100lm			
			P31 3,100lm			
			P50 5,000lm			
			2x4			
			P21 2,100lm			
			P31 3,100lm			
			P65 6,500lm			

OPTIONS [6]

EM/CP12	Remote mount 12-watt Iota emergency battery [8]
EQCLIPS	Earthquake clips [9]
LT-14-SMK-W	Surface mount kit, 1'x4', white
LT-22-SMK-W	Surface mount kit, 2'x2', white
LT-24-SMK-W	Surface mount kit, 2'x4', white
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 [7]

POE N	Power over Ethernet network node
POE D	Power over Ethernet device node

NOTES

[1] Lumens based on 3500K for single CCT and 4000K for TW. Actual lumens may vary +/-5%, see page 2 for FIXTURE PERFORMANCE DATA.
[2] Air return through side slots. Not available with surface mount or CP option.
[3] 4' length only
[4] 2' width only
[5] Extended lead times may apply. Consult factory for availability. Not available with Tunable White.
[6] See page 3 for SURFACE MOUNT KIT DETAILS. See Technical Info for Drywall Kit details. See hew.com/poe for compatible sensors and switches.
[7] Node requires remote mounting. See page 3 for REMOTE MOUNT DETAILS. For additional PoE info, see hew.com/poe
[8] Requires one additional category cable run to switch. See page 3 for REMOTE MOUNT DETAILS.
[9] 4 per fixture; LT is compatible with Williams earthquake clips only.

H.E. Williams, Inc. ▪ Carthage, Missouri ▪ www.hew.com ▪ 417-358-4065 ▪ Designed and Manufactured in the USA
Information contained herein is subject to change without notice.
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Recessed
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FIXTURE PERFORMANCE DATA

STANDARD

	LED PACKAGE	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
1x4	P21	2143	16	133.9
	P31	3144	25	125.8
	P65	6550	50	131.0
2x2	P21	2119	16	132.4
	P31	3140	25	125.6
	P50	5027	38	132.3
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
	P31	3238	25	129.5
	P65	6746	50	134.9
2x2	P21	2182	16	136.4
	P31	3233	25	129.3
	P50	5177	38	136.2
2x4	P21	2207	16	137.9
	P31	3238	25	129.5
	P65	6746	50	134.9

MULTIPLIER TABLES

STANDARD		
	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

TUNABLE WHITE		
	CCT	CONVERSION FACTOR
80 CRI	3000K	0.95
	3500K	0.98
	4000K	1.00
	5000K	0.96
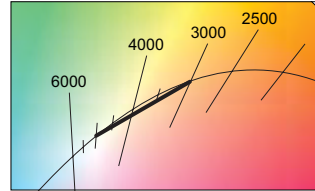
- Photometrics tested in accordance with IESNA LM-79. Results shown are based on 25°C ambient temperature.
- Standard results based on 3500K standard, 80 CRI, actual lumens may vary +/-5%
- Tunable white results based on 4000K standard, 80 CRI, actual lumens may vary +/-5%
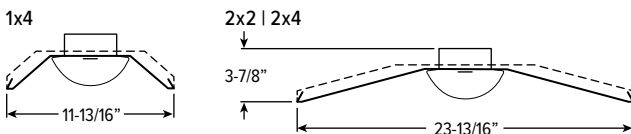- Use multiplier tables to calculate additional options.

PHOTOMETRY

LT-24-P65/835-AF Total Luminaire Output: 6550 lumens; 50 Watts | Efficacy: 131 lm/W | 82 CRI; 3500K CCT
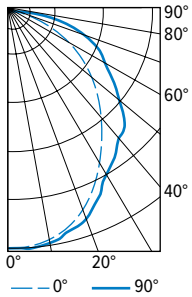
VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
	0º	45º	90º	
0	2331	2331	2331	
5	2321	2322	2324	221
15	2197	2217	2240	628
25	1943	2001	2060	919
35	1606	1712	1813	1068
45	1328	1502	1656	1136
55	933	1136	1315	1010
65	604	840	1029	815
75	303	541	685	552
85	88	219	201	203
90	0	0	0	

ZONE	LUMENS	% FIXTURE
0 - 30	1767	27
0 - 40	2835	43
0 - 60	4980	76
0 - 90	6550	100
0 - 180	6550	100

LUMEN SUMMARY

CANDLEPOWER DISTRIBUTION

— – 0°   —— 90°

CROSS SECTIONS

1x4

11-13/16"

2x2 | 2x4

3-7/8"

23-13/16"

FIXTURE DETAILS

BACK VIEW

Access Plate with (2) 7/8" KOs

23-13/16" (2x2) or 47-13/16" (1x4 or 2x4)

SIDE VIEW

ø7/8" KO
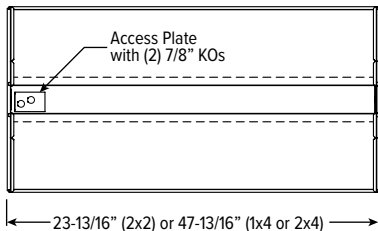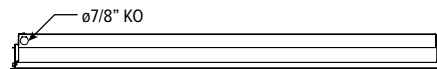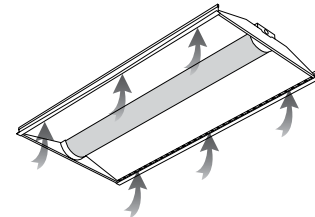
AIR RETURN

Total Air Return Space: 12-1/2" sq. (2x2) and 25-1/2" sq. (1x4 and 2x4)

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SURFACE MOUNT KIT DETAILS

CROSS SECTIONS

1x4

12-1/8"

2x2 | 2x4

24-1/8"

4-1/2"

BACK VIEWS

1x4

(10) 7/8" KOs

(4) 3/16" mounting holes

(1) 2" KO

10"

12-1/8"

40"

49"

2x2

(4) 3/16" mounting holes

(1) 2" KO

(10) 7/8" KOs

20"

24-1/8"

20"

25"

2x4

(10) 7/8" KOs
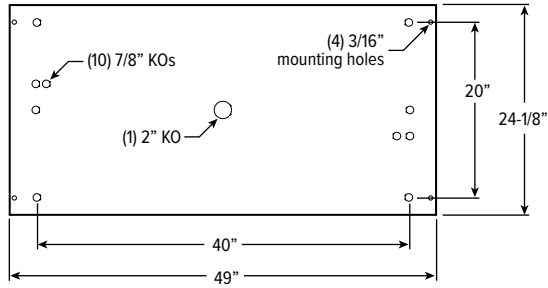
(4) 3/16" mounting holes
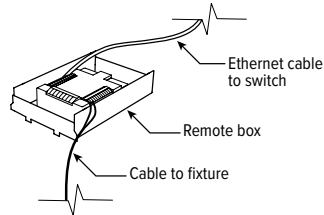
(1) 2" KO

20"

24-1/8"

40"

49"
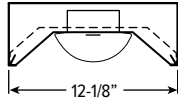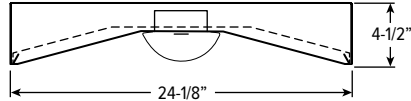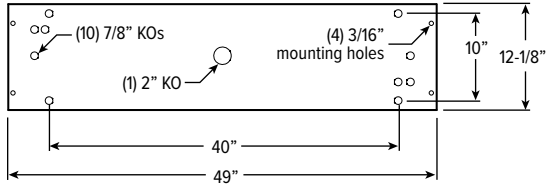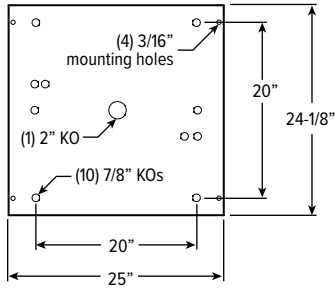
REMOTE MOUNT DETAILS

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

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

NODE

Ethernet cable to switch

Remote box

Cable to fixture

NODE AND EM OPTION

2' Plenum-rated cable supplied to fixture

Remote box

Test light