LT

PoE | tunable WHITE
Troffer

Williams®

CATALOG #: _____

3-7/8"

23-13/16"

2x2 | 2x4 Shown

TYPE: _____

PROJECT: _____

BUY AMERICAN ACT COMPLIANT · IP5X Rated · ISO 5 Class 100

FEATURES

- Deliver scalable, data-driven smart buildings with PoE-enabled fixtures and controls
- Air return capability reduces number of unsightly ceiling vents for a cleaner appearance
- Surface mount kit preserves continuity
- Rated for direct contact with insulation
- ISO 5-9 and IP5X rated for cleanroom applications
- Made Right Here® in the USA

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.
- MOUNTING – NEMA Type "G" 15/16" or 1" grid standard. For NEMA Type "NFG" and "SG" 9/16" grid installations, specify EQCLIPS option. Surface mount and drywall flange kits available, shipped separately, see options.
- LISTINGS –
  - cCSAus certified as luminaire suitable for dry or damp locations.
  - IC-rated for direct contact with insulation.
  - IP5X rated.
  - ISO 5-9 rated.
  - Complies with the Buy American Act and other federal regulations. Request certification at hew.com/baa.
- WARRANTY – 5-year limited warranty, see hew.com/warranty.

SYSTEM REQUIREMENTS

- PoE-ready luminaires are connected to building power systems through network integration and require other components for complete PoE lighting system
- For additional PoE info, see hew.com/poe

ORDERING EXAMPLE: LT ‑ 2 4 ‑ P65/835 ‑ AF ‑ OPTIONS ‑ POE PR

ORDERING INFO

SERIES	WIDTH	LENGTH	LUMENS [1]	CRI	CCT	SHIELDING
LT Static	1 1' [3]	2 2' [4]	**1x4**	8 80	27 2700K	AF Frosted acrylic
LT-AR Air Return [2]	2 2'	4 4'	P21 2,100lm	9 90 [5]	30 3000K	
			P31 3,100lm		35 3500K	
			P65 6,500lm		40 4000K	
			2x2		50 5000K	
			P21 2,100lm		TW Tunable white (3000K–5000K)	
			P31 3,100lm			
			P50 5,000lm		TW2 Tunable white (2700K-6500K)	
			2x4			
			P21 2,100lm			
			P31 3,100lm			
			P65 6,500lm			

OPTIONS [6]

EQCLIPS	Earthquake clips [8]
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 PR Power over Ethernet-ready

NOTES

1. Lumens based on 80 CRI, 3500K for single CCT and 4000K for TW. Actual performance may vary +/-5%, see page 2 for FIXTURE PERFORMANCE DATA.
2. Air return through side slots. Not available with surface mount or CP option. Not qualified for IP5X, ISO 5-9, or IC ratings.
3. 4' length only.
4. 2' width only.
5. Extended lead times may apply. Consult factory for availability.
6. See page 3 for SURFACE MOUNT KIT DETAILS. See page 3 for DRYWALL KIT (DFK) OPTIONS.
7. For additional PoE connection details, consult factory.
8. 4 per fixture. Optional for 1" grid installations. Required for 9/16" grid mounting; 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

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FIXTURE PERFORMANCE DATA

STATIC WHITE

	LED PACKAGE	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
1x4	P21	2143	16	134
1x4	P31	3144	25	126
1x4	P65	6550	50	131
2x2	P21	2119	16	132
2x2	P31	3140	25	126
2x2	P50	5027	38	132
2x4	P21	2143	16	134
2x4	P31	3144	25	126
2x4	P65	6550	50	131

TUNABLE WHITE

	LED PACKAGE	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
1x4	P21	2207	16	138
1x4	P31	3238	25	130
1x4	P65	6746	50	135
2x2	P21	2182	16	136
2x2	P31	3233	25	129
2x2	P50	5177	38	136
2x4	P21	2207	16	138
2x4	P31	3238	25	130
2x4	P65	6746	50	135

MULTIPLIER TABLE

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

- Photometrics tested in accordance with IESNA LM-79. Results based on 80 CRI, 3500K CCT static white, 4000K CCT tunable white, and 25°C ambient temperature. Actual performance may vary +/-5%
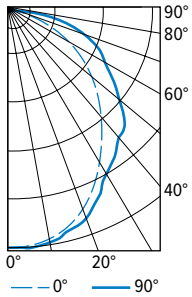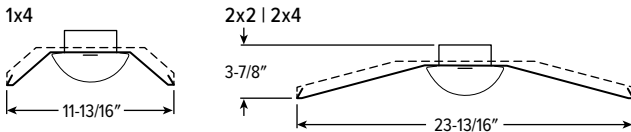- Use multiplier table to calculate additional options.

TW
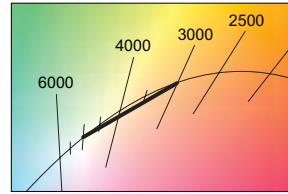
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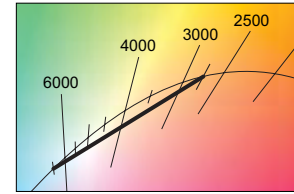
PHOTOMETRY

LT-24-P65/835-AF Total Luminaire Output: 6550 lumens; 50 Watts | Efficacy: 131 lm/W | 80 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

CANDLEPOWER DISTRIBUTION *LUMEN SUMMARY*

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
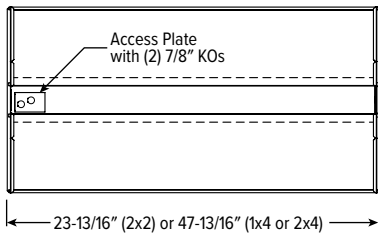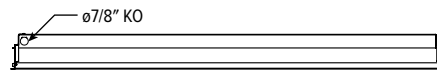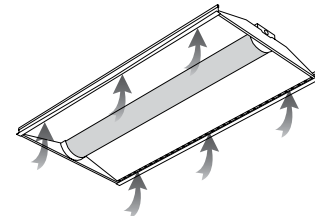
AIR RETURN

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
(1) 2" KO
(4) 3/16" mounting holes
10"
12-1/8"
40"
49"

2x2

(4) 3/16" mounting holes
(1) 2" KO
(10) 7/8" KOs
20"
25"

2x4

(10) 7/8" KOs
(1) 2" KO
(4) 3/16" mounting holes
20"
24-1/8"
40"
49"
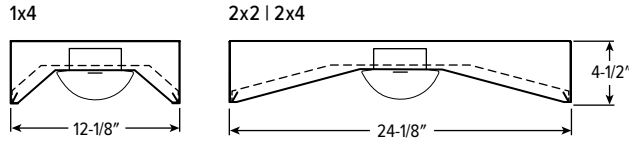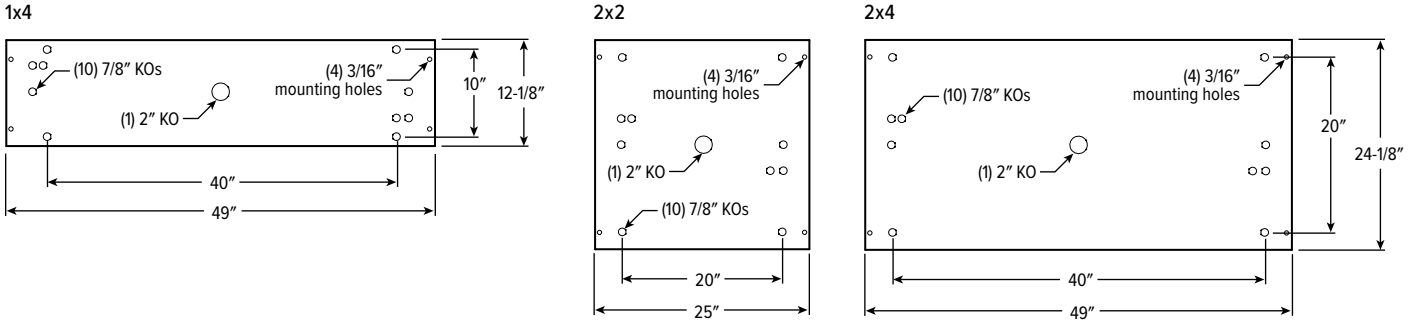
DRYWALL KIT (DFK) OPTIONS

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

Refer to table for dimensions.

A
B
Width

C
D
Length