50 LED Static Troffer

Williams®

CATALOG #: _____

TYPE: _____

PROJECT: _____

4-3/8″

23-13/16″
2x2 | 2x4

BAA & BABA COMPLIANT · IP5X Rated · CCEA Approved

FEATURES

- Frosted prismatic lens provides pleasing diffused light without LED pixelation
- Fully-enclosed spring-loaded cam latches provide hassle-free room side maintenance
- Triple gasketing and inverted lens options for smooth surface room side
- T-slot steel hinge ensures positive retention when door is opened
- Back reinforcement ribs and rolled-edge channel adds superior strength
- Integral T-bar clips quickly secure fixture to structure. (2x2 and 2x4 only)
- Maximize energy savings with efficacies as high as 139 lm/W
- Rated for direct contact with insulation
- Fully gasketed door protects against contaminants
- Wireless in-fixture control solutions available
- Made Right Here® in the USA

SPECIFICATIONS

- HOUSING – 22-gauge die-formed C.R.S.
- DOOR FRAME – 20-gauge C.R.S. or .050″ extruded aluminum, flat or regress, with mitered corners. T-slot steel hinge allows reversible hinging and latching. Fully enclosed spring-loaded cam latches.
- SHIELDING – Frosted acrylic, pattern #12, .125″ 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 board. L80 > 72,000 hours per IES TM-21. 25°C maximum ambient operating temperature. 50/60 Hz constant current driver.
- 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 type available.
- LISTINGS –
  - cCSAus certified as luminaire suitable for dry or damp locations.
  - IC-rated for direct contact with insulation.
  - IP5X rated.
  - 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: 50 G - S 2 4 - L130/835 - S - AF12125 - OPTIONS - CONTROL/DIM - UNV

SERIES	CEILING TYPE	FIXTURE STYLE	WIDTH	LENGTH	LUMENS [1]		CRI
50	**G** 15/16″ or 1″ grid **F** Flange [2]	**S** Full door frame–no reveal	**1** 1′ [3] **2** 2′	**2** 2′ **4** 4′	**1x4** L27 2,700lm L45 4,500lm L65 6,500lm **2x2** L26 2,600lm L43 4,300lm L65 6,500lm	**2x4** L33 3,300lm L59 5,900lm L90 9,000lm L130 13,000lm	**8** 80 **9** 90

CCT	DOOR FRAME	SHIELDING	OPTIONS
27 2700K **30** 3000K **35** 3500K **40** 4000K **50** 5000K	**S** White flat steel **F** White flat aluminum **R** White regress aluminum **SB** Black flat steel **FB** Black flat aluminum **RB** Black regress aluminum	**AF12125** Frosted acrylic, pattern #12, .125″ thick **AF19156** Frosted acrylic, pattern #19, .156″ thick	*See page 3 for FLEXIBLE WHIP OPTIONS.* **EM/10W** 10-watt emergency battery **EM/12W** 12-watt emergency battery [4] **DG** Double gasket [5] **TG** Triple gasket [6] **EQCLIPS** Earthquake clips [7] **(L__)** Additional lower lumen packages available. [8] Example: 8,500 nominal lumens = 50G-S24-L90/850-**(L85)**. **WET** UL/CUL listed for wet location under covered ceiling. [9] **CP** Chicago Plenum (CCEA) **TP** Tamper-resistant screws [10]

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
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 [12]

ACCESSORIES

TPTG TOOL Tamper-resistant tool for tri-groove screws. [13]

NOTES

1. Lumen output based on AF12125 Shielding, 80 CRI/3500K CCT. Actual peformance may vary +/-5%. See page 2 for FIXTURE PERFORMANCE DATA. Additional lumen package available, see Options.
2. See page 2 for F CEILING TYPE INSTALLATION.
3. 4′ length only.
4. Not available when CEC regulations are required.
5. Flat aluminum door only. See page 3 for GASKETING DETAILS.
6. Flat aluminum door only. Field-installed. See page 3 for GASKETING DETAILS.
7. 4 per fixture. Optional for 1" grid installations. Required for 9/16" grid mounting. Not available with F Ceiling Type.
8. Specify in increments of 100 nominal lumens. Option must be specified with next higher lumen package.
9. Flat aluminum door only, TG option included.
10. Flat aluminum door only. Requires a tamper-resistant tool, see Accessories.
11. See page 3 for SENSOR & NODE PLACEMENT DETAILS.
12. Not available with EM batteries.
13. Tamper-resistant tool must be ordered separately. Please specify quantity required per project.

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

	LED PACKAGE	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
1x4	L27	2637	20.1	131
1x4	L45	4311	33.7	128
1x4	L65	6563	55.7	118
2x2	L26	2630	21.3	123
2x2	L43	4363	33.7	129
2x2	L65	6513	54.4	120
2x4	L33	3469	24.9	139
2x4	L59	6231	48.0	130
2x4	L90	9106	67.1	136
2x4	L130	13116	101.2	130

MULTIPLIER TABLE

	COLOR TEMPERATURE	
	CCT	CONVERSION FACTOR
80 CRI	2700K	0.97
80 CRI	3000K	0.99
80 CRI	3500K	1.00
80 CRI	4000K	1.03
80 CRI	5000K	1.06
90 CRI	2700K	0.80
90 CRI	3000K	0.82
90 CRI	3500K	0.83
90 CRI	4000K	0.86
90 CRI	5000K	0.89

LENS	CONVERSION FACTOR
AF12125	1.00
AF19156	0.98

- Photometrics tested in accordance with IESNA LM-79. Results based on AF12125 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.
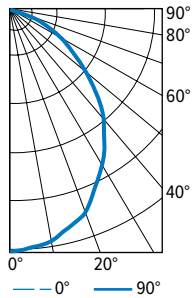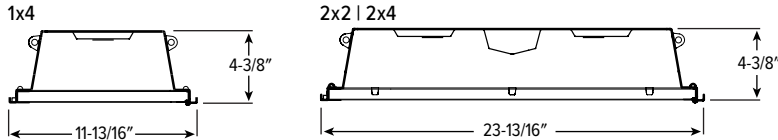- Use multiplier tables to calculate additional options.

PHOTOMETRY

50G-S24-L130/835-SAF12125-DIM-UNV Total Luminaire Output: 13116 lumens; 101.2 Watts | Efficacy: 129.6 lm/W | 80 CRI; 3500K CCT


VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
	0°	45°	90°	
0	5906	5906	5906	
5	5848	5839	5837	555
15	5508	5508	5517	1559
25	4856	4865	4872	2249
35	4025	4015	4031	2512
45	3124	3080	3037	2356
55	2091	2021	1959	1810
65	1239	1165	1149	1183
75	615	589	621	659
85	207	207	244	232
90	0	0	0	

ZONE	LUMENS	% FIXTURE
0 - 30	4363	33
0 - 40	6875	52
0 - 60	11042	84
0 - 90	13116	100
0 - 180	13116	100

CROSS SECTIONS

1x4

4-3/8″
11-13/16″

2x2 | 2x4

4-3/8″
23-13/16″

F CEILING TYPE INSTALLATION

1x4

1″ Min.
3-3/8″ Max.
4-3/8″
13-5/16″
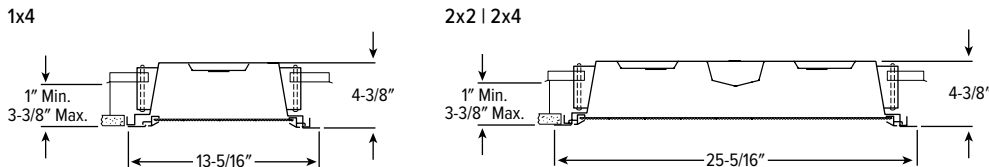
Note: Maximum recommended ceiling opening is 12-3/8″x 48-3/8″. For continuous row mounting, add 49-5/16″ for each additional fixture to obtain ceiling opening. 1-5/16″ between end plates.
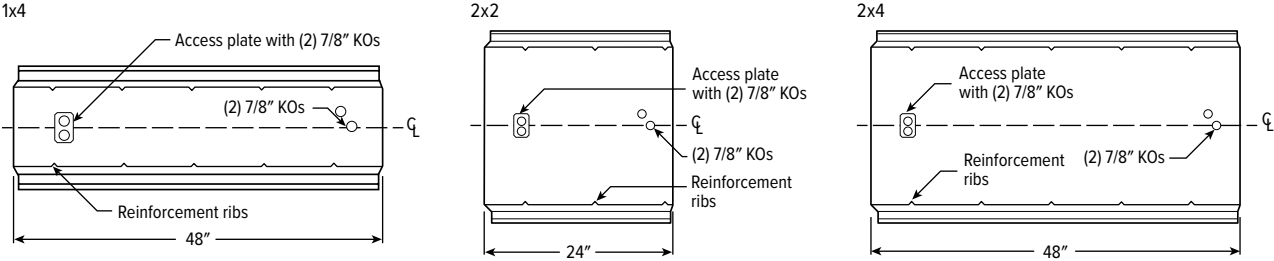
2x2 | 2x4

1″ Min.
3-3/8″ Max.
4-3/8″
25-5/16″

Note: Maximum recommended ceiling opening is 24-3/8″ x 24-3/8″ for 2'x2' and 24-3/8″x 48-3/8″ for 2'x4'. For continuous row mounting, add 49-5/16″ for each additional fixture to obtain ceiling opening. 1-5/16″ between end plates.

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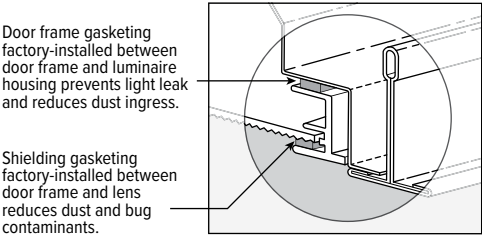Static Troffer

FIXTURE DETAILS

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

BACK VIEWS

1x4

Access plate with (2) 7/8″ KOs

(2) 7/8″ KOs

C_L

Reinforcement ribs

48″

2x2

Access plate with (2) 7/8″ KOs

C_L

(2) 7/8″ KOs

Reinforcement ribs

24″

2x4

Access plate with (2) 7/8″ KOs

Reinforcement ribs

(2) 7/8″ KOs

C_L

48″

GASKETING DETAILS

DOUBLE GASKETING (DG OPTION)

Door frame gasketing factory-installed between door frame and luminaire housing prevents light leak and reduces dust ingress.

Shielding gasketing factory-installed between door frame and lens reduces dust and bug contaminants.

TRIPLE GASKETING (TG OPTION)

T-bar

Ceiling gasketing field installed between bottom perimeter of fixture and T-bar ceiling seals plenum dust from the room.

Drywall

Between bottom perimeter of fixture and hardpan ceiling.
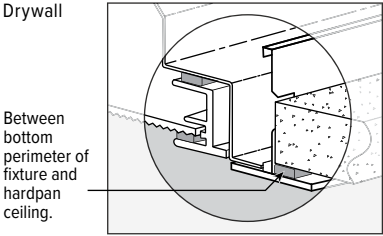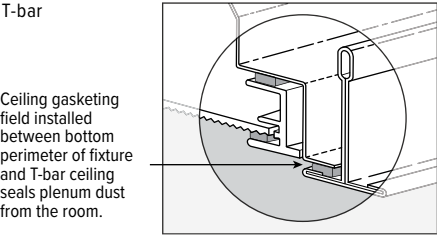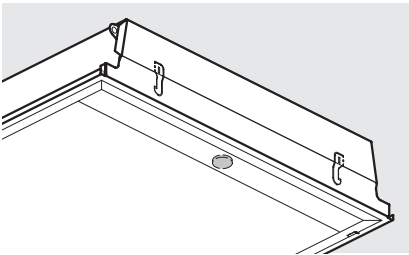
FLEXIBLE WHIP OPTIONS

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
F338	6′ of 3/8″ flex, (3) No. 18 AWG wires with (2) straight connectors	DRV, LTE LINE
F348	6′ of 3/8″ flex, (4) No. 18 AWG wires with (2) straight connectors	DRV + EM, SD40
F334	6′ of 3/8″ flex, (3) No. 14 AWG wires with (2) straight connectors	DRV, LTE LINE
F344	6′ of 3/8″ flex, (4) No. 14 AWG wires with (2) straight connectors	SD40
F358	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

SENSOR & NODE PLACEMENT DETAILS

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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)
D4I	DALI-2 sensor-ready driver 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
PoE PR	Power over Ethernet-ready Note: PoE-ready luminaires are connected to building power systems through network integration and require other components for complete PoE lighting system