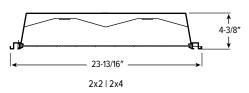
# LED Vandal-Resistant Static Troffer







CATALOG #: \_ TYPF. PROJECT: \_\_

#### **FEATURES**

- Ideal for potentially rough environments such as recreational facilities, schools, supervised behavioral centers, or other vandal prone areas
- Impact-resistant prismatic lens with polycarbonate overlay provides added security
- Fully gasketed door option allows for use in light moisture vandal environments such as locker rooms
- Tamper-resistant screws secure door frame
- T-slot steel hinge ensures positive retention when door is opened
- Back reinforcement ribs and rolled-edge channel provide added strength
- Integral T-bar clips quickly secure fixture to structure. (2x2 and 2x4 only)
- Maximize energy savings with efficacies as high as to 124 lm/W
- Rated for direct contact with insulation
- Made Right Here® in the USA

#### **SPECIFICATIONS**

- HOUSING 22-gauge die-formed C.R.S.
- DOOR FRAME .050" flat extruded aluminum, with mitered corners. T-slot steel hinge allows reversible hinging and latching. Fully enclosed spring-loaded cam latches secured with six tamperresistant, tri-grove screws.
- SHIELDING Frosted acrylic, pattern #12, .157" thick chemically welded to clear polycarbonate, .177" 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. L70 at 50,000 hours. 25°C maximum ambient operating temperature.
- MOUNTING NEMA Type "G" standard. NEMA Type "F" available.
- LISTINGS
  - cETLus conforms to UL STD 1598. Certified to CAN/CSA STD C22.2 No. 250.0. Suitable for damp locations
  - IC-rated for direct contact with insulation
  - City of Chicago Environmental Air approved when specified with CP option
- WARRANTY 5-year limited warranty, see hew.com/warranty.

#### ORDERING EXAMPLE: V50 G - S 2 4 - L130/835 - F - VLF - OPTIONS - DIM - UNV

#### **ORDERING INFO**

SERIES	CE	ILING TYPE	FIXTURE STYLE	WIDTH	LENGTH	LUME	NS [1]
V50	G	NEMA Type "G"	S Full door frame-no reveal	1 1'[3]	2 2'[4]	1x4	
	F	NEMA Type "F" [2]		<b>2</b> 2'	<b>4</b> 4'	L23	2,300lm
						L39	3,900lm
						L58	5,800lm
						2x2	
						L23	2,300lm
						L39	3,900lm
						L58	5,800lm
						2x4	
						L31	3,100lm
						L56	5,600lm
						L81	8,100lm
						L117	11,700Im

CRI	ССТ	DOOR FRAME	SHIELDII	NG
<b>8</b> 80 <b>9</b> 90 <sup>[5]</sup>	27 2700K 30 3000K 35 3500K 40 4000K 50 5000K	F White flat aluminum FB Black flat aluminum	VLF VL	Frosted, pattern #12, .187" thick acrylic chemically welded to clear .177" thick polycarbonate Acrylic, pattern #12, .187" thick acrylic chemically welded to clear .177" thick polycarbonate [6]
			PC12187	Polycarbonate, pattern #12, .187" thick

OPTIONS [7] CONTROL [8] VOLTAGE EM/10W 10-watt emergency battery **DIM** Dimming driver 120 120V Double gasket [9] DG DRV Non-dimming driver 277 277V Triple gasket [10] **UNV** 120-277V TG EQCLIPS Earthquake clips [11] 347 347V [14] Additional lower lumen packages available. [12] Example: 9,500 nominal lumens =

V50G-S24-L117/835-**(L95)**. WET

Wet location under covered ceiling [13]

CP Chicago Plenum (CCEA)

#### **ACCESSORIES**

TPTG TOOL Tamper-resistant tool for tri-grove screws. [15]

#### **NOTES**

- Lumen output based on 3500 CCT, 80 CRI. Actual lumens may vary +/-5%, see page 2 for FIXTURE PERFORMANCE DATA.
  Additional lumen package available, see options
  See page 3 for NEMA TYPE "F" INSTALLATION.
  4' length only

- 2' width only
- Extended lead times may apply. Consult factory for availability.
- LED pixelation will be visible
- See page 4 for FLEXIBLE WHIP OPTIONS. See page 2 for ADDITIONAL CONTROL OPTIONS.
- See page 3 for GASKETING DETAILS.
- Field installed. See page 3 for GASKETING DETAILS.
   4 per fixture. NEMA Type "G" only.
   Specify in increments of 100 nominal lumens. Option must be provided with a wide.
- specified with next higher lumen package. TG option included Not available with EM drivers

- Tamper-resistant tool must be ordered separately. Please specify quantity required per project

# O LED Vandal-Resistant Static Troffer

### FIXTURE PERFORMANCE DATA

	LED PACKAGE	DELIVERED LUMENS	WATTAGE	EFFICACY (Im/W)
	L23	2359	20.1	117.4
<del>X</del>	L39	3856	33.7	114.4
	L58	5871	55.7	105.4
	L23	2353	21.3	110.5
2×2	L39	3903	33.7	115.8
	L58	5827	54.4	107.1
	L31	3103	24.9	124.6
2x4	L56	5574	48	116.1
	L81	8146	67.1	121.4
	L117	11733	101.2	115.9

#### **MULTIPLIER TABLES**

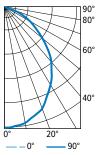
	COLOR TEMPERATURE					
	CCT	CONVERSION FACTOR				
	2700K	0.97				
=	3000K	0.99				
80 CRI	3500K	1.00				
æ	4000K	1.03				
	5000K	1.06				
	2700K	0.80				
90 CRI	3000K	0.82				
	3500K	0.83				
	4000K	0.86				
	5000K	0.89				

SHIELDING				
CATALOG NUMBER   CONVERSION FACTOR				
VLF	1.00			
VL	0.97			
PC12187	0.83			

- Photometrics tested in accordance with IESNA LM-79. Results shown are based on 25°C ambient temperature.
- Wattage shown is average for 120V through 277V input.
- Results based on 3500K, 80 CRI, actual lumens may vary +/-5%
- Use multiplier tables to calculate additional options.

### **PHOTOMETRY**

V50G-S24-L117/835-FVLF-DIM-UNV Total Luminaire Output: 11733 lumens; 101.2 Watts | Efficacy: 115.9 lm/W | 82 CRI;3500K CCT



	VERTICAL ANGLE	НО	ZONAL LUMENS		
	VERTICAL ANGLE	0°	45°	90°	ZUNAL LUMENS
S	0	5497	5497	5497	
5	5	5510	5459	5444	519
CANDLEPOWER DISTRIBUTION	15	5284	5243	5224	1479
S	25	4825	4780	4759	2198
2	35	4071	3967	3946	2479
No.	45	2954	2750	2705	2158
Œ,	55	1776	1632	1578	1504
ᅙ	65	958	866	871	904
CA	75	413	377	375	416
	85	63	49	36	76
	90	0	0	0	

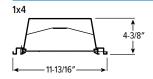
LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
Σ	0 - 30	4196	36
S	0 - 40	6675	57
Ē	0 - 60	10337	88
흨	0 - 90	11733	100
	0 - 180	11733	100

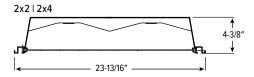
# **ADDITIONAL CONTROL OPTIONS**

Note: Lumen restrictions apply, consult product builder at hew.com/product-builder.

CATALOG NUMBER	DESCRIPTION
DRV	Driver prewired for non-dimming applications
DIM	Dimming driver prewired for 0-10V low voltage applications
DIM1	1% dimming driver prewired for 0-10V low voltage applications
DIM LINE	Line voltage dimming driver (Must specify 120V or 277V only)
SD40	40% step-dimming driver
SD50	50% step-dimming driver
DALI	DALI dimming driver
LTE LINE	Lutron Hi-lume 1% 2-wire dimming driver forward phase line voltage controls (120V only)
LDE1	Lutron Hi-lume 1% EcoSystem dimming LED driver
LDE5	Lutron 5-Series 5% EcoSystem dimming LED driver
ELDO SOLOB	EldoLED Solodrive, 0.1% dimming driver for 0-10V controls
ELDO SOLOB DALI	EldoLED Solodrive, 0.1% dimming driver for DALI controls
ELDO ECO1	EldoLED Ecodrive, 1% dimming driver for 0-10V controls
ELDO ECO1 DALI	EldoLED Ecodrive, 1% dimming driver for DALI controls

# **CROSS SECTIONS**





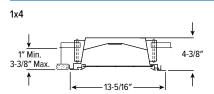


### **FIXTURE DETAILS**

# **BACKVIEW** 2x2 2x4 Access plate with (2) 7/8" KOs Access plate with (2) 7/8" KOs (2) 7/8" KOs 0 q (2) 7/8" KOs Reinforcement Reinforcement ribs ribs 48′ 1x4 Access plate with (2) 7/8" KOs (2) 7/8" KOs \_ G Reinforcement ribs

48'

### **NEMA TYPE "F" INSTALLATION**

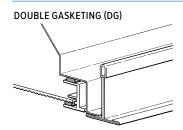


Note: Maximum recommended ceiling opening is 12-3/8"x 48-3/8". For continuous row mounting, add 49-5/16" for each additional fixture to obtain ceiling opening. 1-5/16" between end plates.

# 2x2 | 2x4 1" Min. 3-3/8" Max. 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.

# **GASKETING DETAILS**



Gasketing is factory-installed continuously between door frame and luminaire housing; and between door frame and lens.



Gasketing is factory-installed continuously between door frame and luminaire housing; and between door frame and lens. Gasketing between bottom perimeter of unit (adjacent to T-bar or hardpan ceiling) is provided by factory and field installed.

# V50 LED Vandal-Resistant Static Troffer

### **FLEXIBLE WHIP OPTIONS**

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

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	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) #18 AWG wires with (2) straight connectors	DIM, DALI