

DESCRIPTION

The Fail-Safe FWL (up/down) or FWLDL (down only) wall or ceiling fixture combines security features along with diminutive size, attractive styling and LED technology. Less than 4" deep, a dedicated back-pan combined with a one-piece housing maximizes impact resistance and prevents unauthorized fixture penetration. The slope-sided, ligature resistant design which when combined with polycarbonate lensing and tamper resistant hardware, is well-suited for use in behavioral health applications. Ideally suited for schools, mental health facilities, stairwells, corridors, detention centers, and public transportation areas.

Catalog #		Type
Project		
Comments		Date
Prepared by		

SPECIFICATION FEATURES

Fasteners

Stainless steel tamper resistant T20 torx or allen head screws.

Housing/Backpan

Dedicated backpan mounts with multi-point mounting. Housing is attached to the backpan with tamper resistant screws. Stainless steel safety cables secure housing to the backpan.

Lens

Various lens combinations up to 0.375" thick.

Lens Retention

Lens secured by thru-studs and vertically adjustable internal steel hold downs.

LED

LEDs available in 3000K, 3500K, 4000K and 5000K with minimum of 80CRI. Projected life is 50,000 hours at 70% lumen maintenance.

Finish

Electrostatically applied, matte white powder coat finish. Gloss white paint available. Custom colors also available. Supply RAL number, paint chips, or paint manufacturer catalog number.

Driver

Electronic driver. 0-10V dimming standard.

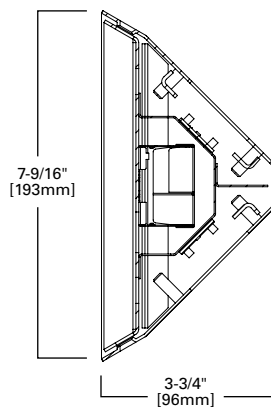
Labels

cULus listed for damp locations.

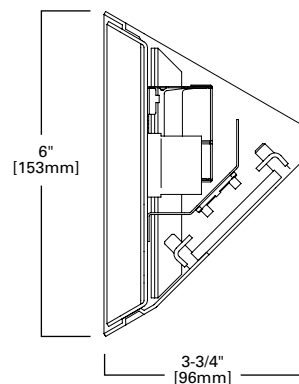
Warranty

Five year warranty on LEDs and electrical.

FWL



FWLDL



ORDERING INFORMATION

SAMPLE NUMBER: FWL-D-2-LD4-UNV-STD/STD-35-80/86-EDC2-GW or FWLDL-D-4-LD4-UNV-STD-35-80/89CW/84-EDC1

Series	LD4	UNV	/			
FWL=Wall or Ceiling FWLDL=Wall or Ceiling, Downlight Only						
Material D=16GA CRS X=14GA CRS						
Length 18=18" 2=2' 4=4'						
LED LD4=Linear LED Version 4.0						
		Voltage UNV=120V-277V		Inner Lens ³ 80=0.125" Pattern 12 Acrylic		Circuits 1=1 Circuit 2=2 Circuits ¹
		Up Light Level (FWL only) STD=Standard Output LO=Low Output HI=High Output		Center Lens (optional) ³ 89CW=Highly Transmissive Diffuse Lens, for optimal Pixellation Management, 0.02" thick		Options GW=Gloss White Paint AMA=Anti-microbial Matte White Paint, All Parts AMH=Anti-microbial Matte White Paint, Outer Housing Only SHP=Stainless Steel Housing, Powder Coat Painted White SHN=Stainless Steel Housing, Brushed NTP=Non-tamper Proof Fasteners (Phillips-head screws) 90=90CRI
		Down Light Level STD=Standard Output LO=Low Output HI=High Output		Outer Lens ³ 84=0.125" Clear Polycarbonate 85=0.187" Clear Polycarbonate 86=0.25" Clear Polycarbonate		
		Color Temperature 30=3000K 35=3500K 40=4000K 50=5000K		Driver EDC=Electronic Driver, Non-dimming EDD=Electronic Driver, 0-10V Dimming 10% ED1D=Electronic Driver, 0-10V Dimming 1%		

Notes:

- Two circuits not available on FWLDL.
- FWLDL 2' available with STD or HI settings only.
- Specified as "Inner / Center (optional) / Outer" Example logic: 80/89CW/84



FWL



FWLDL

FWL FWLDL

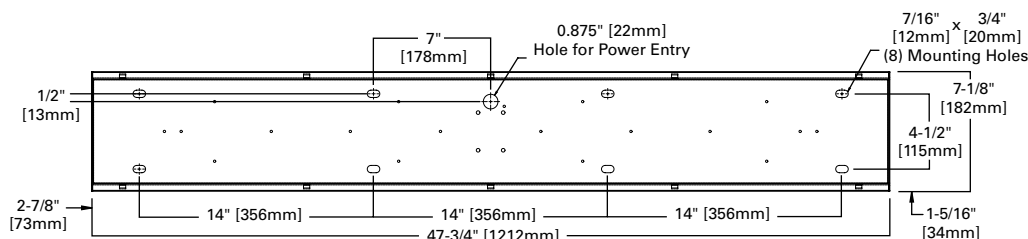
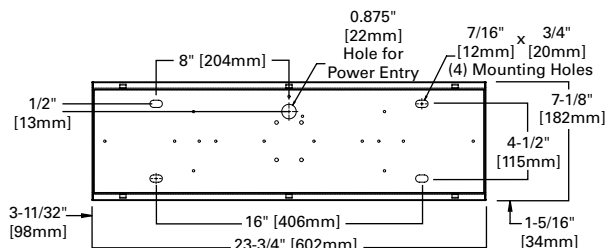
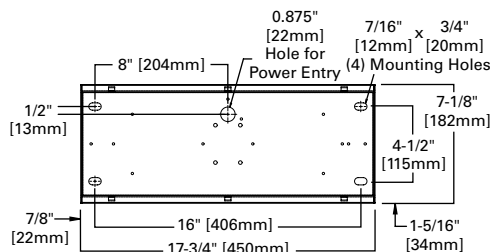
LD4 LED
Healthcare: Patient
Confinement

CEILING/WALL

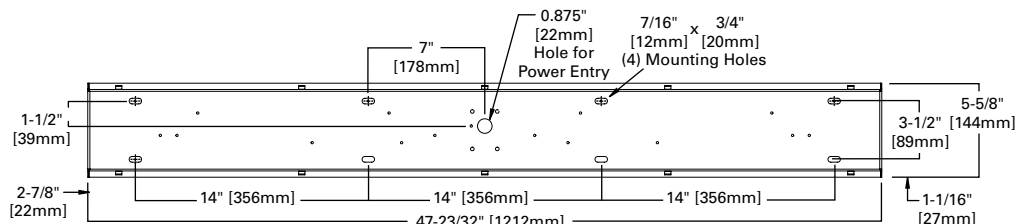
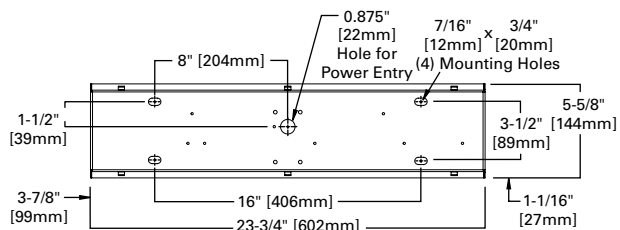
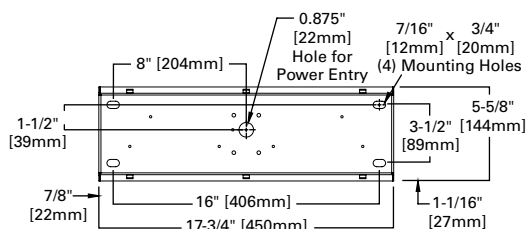


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FWL MOUNTING DIMENSIONS



FWLDL MOUNTING DIMENSIONS



NOMINAL INPUT WATTS/DELIVERED LUMENS (3500K)

FWL			
Length	Output Level	Nominal Input Watts	Nominal Delivered Lumens
18"	Low	21.2	1200
	Standard	26.6	1500
	High	29.8	1675
24"	Low	31.8	1800
	Standard	42.5	2400
	High	52.9	3000
48"	Low	63.4	3600
	Standard	85.0	4825
	High	105.8	6025
FWLDL			
Length	Output Level	Nominal Input Watts	Nominal Delivered Lumens
18"	Low	10.6	600
	Standard	13.3	750
	High	15.9	900
24"	Low	15.9	900
	Standard	21.3	1200
	High	26.5	1500
48"	Low	31.8	1800
	Standard	42.5	2400
	High	52.9	3000

* Lens tested was "86"; 0.25" clear polycarbonate

* Nominal input wattage values include LED voltage, drive current and typical driver efficiency. Refer to LM 79 data/photometric files for exact delivered lumen values and input wattage. Values in table are nominal values only.