Project	Catalog #	Туре	
Prepared by	Notes	Date	



🖌 Interactive Menu

- Order Information page 2
- Product Specifications page 2
- Nominal Input Watts/Delivered Lumens page 3
- Product Warranty

Fail-Safe

FWL | FWLDL | LD4 LED

Medical/Confinement/Vandal Resistant Wall- or Ceiling-Mount LED Up/down and Downlight only; 18", 2' and 4' Lengths

Typical Applications

 $\label{eq:schools} {\tt Schools} \bullet {\tt Mental Health Facilities} \bullet {\tt Stairwells} \bullet {\tt Corridors} \bullet {\tt Detention Centers} \bullet {\tt Public Transportation Areas}$

Product Certification



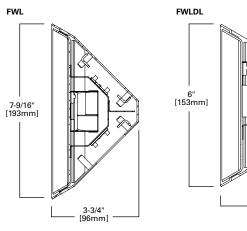
Product Features

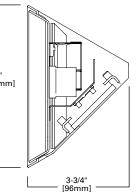


Top Product Features

- FWL for up/down, FWLDL for downlight only
- Available in 18", 2', and 4' lengths
- Polycarbonate or glass sheilding up to 0.25" thick
- Stainless steel housing available
- 14 gauge and 16 gauge steel
- · Options to meet Buy American Act requirements

Dimensional and Mounting Details









FWL | FWLDL LED

Order Information

SAMPLE ORDER 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

Domestic Preferences	Series	Material	Length	LED	Voltage	Up Light Level (FWL only)	Down Light Level	Color Temperature
Domestic Preferences (4)	Series	Material	Length	LED	Voltage	Up Light Level (FWL only)	Down Light Level	Color Temperature
[Blank] =Standard BAA =Buy American Act	FWL=Wall or Ceiling FWLDL=Wall or Ceiling, Downlight Only	D=16GA CRS X=14GA CRS	18 =18" 2 =2' ⁽²⁾ 4 =4'	LD4=LED, Version 4.0	UNV =120V-277V	STD=Standard Output LO=Low Output HI=High Output	STD=Standard Output LO=Low Output HI=High Output	30 =3000K 35 =3500K 40 =4000K 50 =5000K
Notes (4) Only product configurations with this designated prefix are built to be compliant with the Buy American Act of 1933 (BAA). Please refre to <u>DOMESTIC PREFERENCES</u> website for more information. Components shipped separately may be separately analyzed under domestic preference requirements.			Notes (2) FWLDL 2' available with STD or HI settings only.					

Inner/Center/Outer Lens	Driver	Circuits	Options
Inner/Center/Outer Lens (3)	Driver	Circuits	Options
Inner Lens ⁽³⁾ 80=0.125" Pattern 12 Acrylic Center Lens (optional) ⁽³⁾ 89CW=Highly Transmissive Diffuse Lens, for optimal Pixellation Management, 0.02" thick Outer Lens ⁽³⁾ 84=0.125" Clear Polycarbonate 85=0.187" Clear Polycarbonate 86=0.25" Clear Polycarbonate	EDC_=Electronic Driver, Non-Dimming EDD_=Electronic Driver, 0-10V Dimming 10% ED1D_=Electronic Driver, 0-10V Dimming 1%	1=1 Circuit 2=2 Circuits ⁽¹⁾	GW=Gloss White Paint AMA=Antimicrobial Matte White Paint, All Parts AMH=Antimicrobial 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
Notes (3) Specified as "Inner / Center (optional) / Outer" Example logic: 80/89CW/84.		Notes (1) Two circuits not available on FWLDL.	

Product Specifications

Application

- Confinement, vandal resistant, healthcare and
- educational luminaire suitable for use in:
- Mental health facilities
- Psychiatric wards
- Public transportation areas
- Detention centers
- Stairwells
- Corridors
- Schools
- Housing and Backpan
- Clamshell Design; Die-formed 14 or 16-gauge CRS body construction
- One-piece, seamless, doorless housing
- · Continuous welded and ground ends
- Maximum impact resistance and prevention of unauthorized fixture penetration
- Dedicated up/down illumination chambers
- Dedicated backpan mounts with multi-point mounting
- Housing attached to the backpan with tamper resistant screws
- Stainless steel safety cables secure housing to backpan
- Electrostatically applied, Matte White powder coat finish; High gloss available; Custom colors available (supply RAL number, paint chips, or paint manufacturer catalog number)

Fasteners

- Stainless steel tamper-resistant T20 TORX[®] screws with center pin reject standard
- Allen head screws with center pin reject optional

Lens and Lens Retention

- Choice of prismatic acrylic, clear polycarbonate or prismatic tempered glass
- Lens secured by thru-studs
- · Vertically adjustable internal CRS hold-downs

LEDs

- Available in 3000K, 3500K, 4000K and 5000K; 80 CRI minimum
- · Choice of Standard, Low or High illumination levels
- Projected life is 50,000 hours at 70% lumen maintenance

Electrical

- Electronic driver 120-277V, dimming driver standard
- O-10V dimming down to 1% or 10%
- Non-dimming available

Compliance

· cULus listed for damp locations

Warranty

- Five year limited warranty on LEDs and Electrical, consult website for details.
- www.cooperlighting.com/legal

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FWL | FWLDL LED

P View IES files

Nominal Input Watts/Delivered Lumens (3500K)

FWL				
Length	Output Level	Nominal Input Watts	Nominal Delivered Lumens	
	Low	21.2	1200	
18"	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	

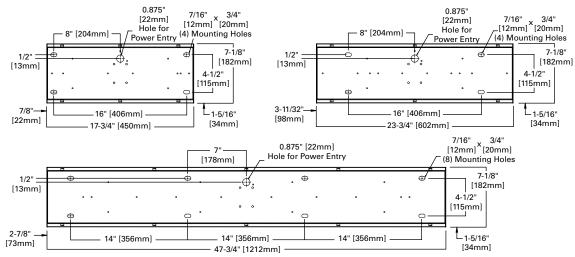
FWLDL				
Length	Output Level	Nominal Input Watts	Nominal Delivered Lumens	
	Low	10.6	600	
18"	Standard	13.3	750	
	High	15.9	900	
24"	Low	15.9	900	
	Standard	21.3	1200	
	High	26.5	1500	
48"	Low	31.8	1800	
	Standard	42.5	2400	
	High	52.9	3000	

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

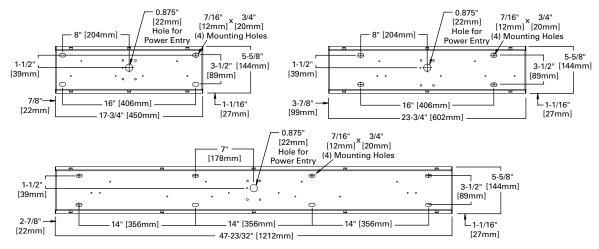
* Nominal input wattage values include LED voltage, drive current and typical driver efficiency. Refer to LM 79 data/photometric files for exact delivered lumen values and input wattage. Values in table are nominal values only.

Dimensional and Mounting Details

FWL MOUNTING DIMENSIONS



FWLDL MOUNTING DIMENSIONS





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Specifications and dimensions subject to change without notice