

Project		Catalog #		Type	
Prepared by		Notes		Date	



Fail-Safe

FCC LED | LD4 LED

Confinement/Correctional Corner-Mount LED
2' and 4' Lengths

Typical Applications

Confinement/Security • Inmate Cells • Psychiatric Wards • Secure Corridors • General Population Areas

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Product Certification



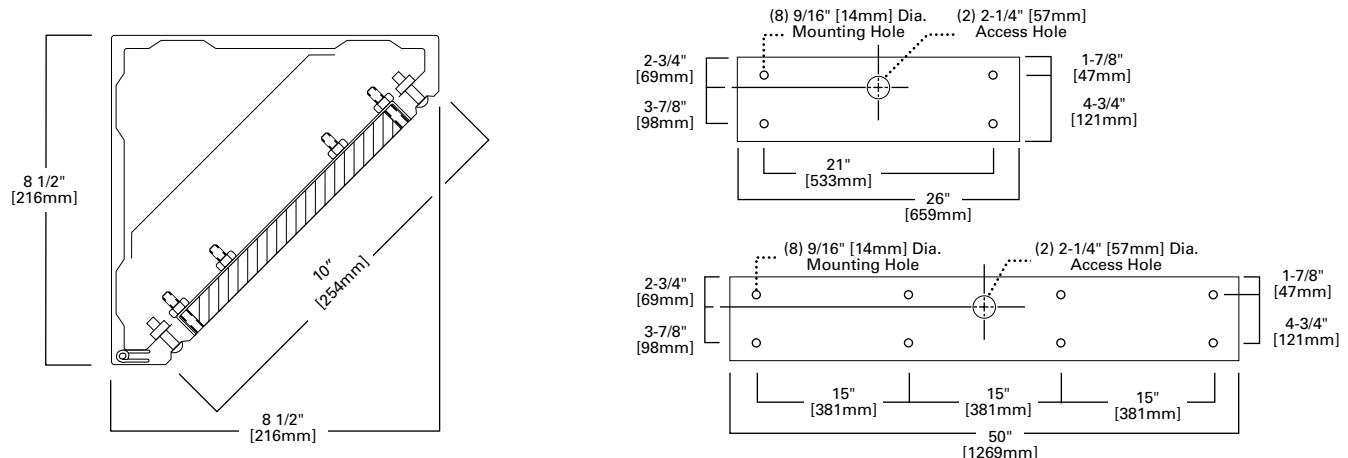
Product Features



Top Product Features

- Corner-mount; Steel or stainless steel construction
- Die-formed 12- to 18-gauge continuous welded one-piece doorless housing
- Backplate forms an irretrievable blade trap preventing contraband concealment
- Clear or prismatic acrylic, and polycarbonate or clear tempered glass lenses
- 3000K, 3500K, 4000K and 5000K CCT; 80 CRI minimum
- Options to meet Buy American Act requirements

Dimensional and Mounting Details



Order Information

SAMPLE ORDER NUMBER: FCC-X-4-LD4-2HI-40-UNV-80/86-EDD2

Domestic Preferences	Product Family	Gauge	Length	LED	No. of LEDs	Illumination Level	Color Temperature	Voltage
Domestic Preferences ⁽⁴⁾	Product Family	Gauge	Length	LED	No. of LEDs	Illumination Level	Color Temperature	Voltage
[Blank] =Standard BAA =Buy American Act	FCC =Corner	S =12 ga. X =14 ga. D =16 ga. N =18 ga.	2 =2' 4 =4'	LD4 =LED, Version 4.0	1 =(1) LED Module in Cross Section 2 =(2) LED Modules in Cross Section	STD =Standard LO =Low HI =High	30 =3000K 35 =3500K 40 =4000K 50 =5000K	UNV =120V-277V 120 =120V 277 =277V 347 = 347V ⁽³⁾
Notes (4) Only product configurations with this designated prefix are built to be compliant with the Buy American Act of 1933 (BAA). Please refer to DOMESTIC PREFERENCES website for more information. Components shipped separately may be separately analyzed under domestic preference requirements.								Notes (3) 347V emergencies not available. 2ft length with LLNL option not available with 347V. GLR (347V) not available.

Inner/Outer Lens ⁽¹⁾	Driver Type	No. of Circuits	Options
Inner/Outer Lens ⁽¹⁾	Driver Type	No. of Circuits	Options
Fixture Side 80 =0.125 Prismatic Acrylic 81 =0.156 Prismatic Polycarbonate 82 =0.187 Prismatic Polycarbonate Environmental Side 84 =.125 Clear Polycarbonate 85 =.187 Clear Polycarbonate 86 =.250 Clear Polycarbonate 87 =.375 Clear Polycarbonate 88 =.500 Clear Polycarbonate 94 =.187 Clear Tempered Glass 96 =.250 Clear Tempered Glass 98 =.500 Clear Tempered Glass	Electronic Driver EDC =Electronic Driver, Non-Dimming EDD =Electronic Driver, 0-10V Dimming 10% ED1D =Electronic Driver, 0-10V Dimming 1%	1 =1 Circuit 2 =2 Circuit	SSN =Stainless Steel Housing and Door, Brushed SSP =Stainless Steel Housing and Door Powder Coat Painted White GLR =Fuse and Holder ⁽²⁾ EL7W =7W EM Battery Pack ^{(2), (3)} EL10W =10W EM Battery Pack ^{(2), (3)} EL14W =14W EM Battery Pack ^{(2), (3)} LLNL =Linear LED Night Light, ^{(2), (3)} (Dimmable) WL =Wet Location Listed, Under Covered Ceiling 90 =90CRI
Notes (1) See Lens Ordering Guide (on website) for additional lens choices.		Notes (2) ELs are not available in 2' length fixture. EL & LLNL combination not available with "HI" illumination level in the 4' length fixture. (3) 347V emergencies not available. 2ft length with LLNL option not available with 347V. GLR (347V)not available.	

Product Specifications

Application

- Confinement/correctional luminaire suitable for use in:
 - Inmate cells
 - Psychiatric wards
 - Secure corridors
 - General population areas

Housing/Door

- Clamshell Design; Die-formed 12-, 14, 16 or 18-gauge CRS body construction
- One-piece, seamless, doorless housing
- Continuous welded and ground ends
- Maximum impact resistance and prevention of unauthorized fixture penetration
- Optional clamshell outer door in 12-, 14, 16 or 18-gauge
- High gloss, electrostatically applied, White powder coat finish
- Average minimum reflectance 92%

Fasteners and Hinge

- Stainless steel tamper-resistant T20 TORX® screws with center pin reject standard
- Allen head screws with center pin reject optional
- Continuous, concealed piano hinge (1/4" diameter knuckle) with welded pin end, preventing removal

Backplate

- Die-formed CRS
- Forms an irretrievable blade trap to prevent contraband concealment

Lens and Lens Retention

- Choice of prismatic acrylic or prismatic polycarbonate on fixture side
- Clear polycarbonate or clear tempered glass on environmental side (see lens options)
- 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
- 0-10V dimming down to 1% or 10%
- Non-dimming available

Compliance

- cULus listed for damp locations
- Wet location listed under covered ceiling optional

Warranty

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

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Nominal Input Watts/Delivered Lumens

[View IES files](#)

*CRI: 80; CCT: 4000			80/84 Shielding		
Fixture Size	# Modules	Level	Nominal Input Watts	Nominal Delivered Lumens	LPW
2'	1	LO	11.7	1193	102
	1	STD	16.7	1598	95.7
	1	HI	21.7	1960	90.3
	2	LO	23.5	2386	101.5
	2	STD	33.4	3196	95.7
	2	HI	43.3	3920	90.5
4'	1	LO	23.5	2564	109.1
	1	STD	33.4	3434	102.8
	1	HI	43.3	4212	97.3
	2	LO	46.9	5129	109.4
	2	STD	66.8	6868	102.8
	2	HI	86.6	8425	97.3

Nominal input wattage values include LED voltage, drive current, and typical driver efficiency. Refer to LM79 data/photometric files for exact delivered lumen values and input wattage. Values in table are nominal values only.

Lumen Calculator

CCT	Multiplier
2000	0.673
2700	0.893
3000	0.943
3500	0.99
4000	1
5000	1.017

Lens Multiplier Table

	Lens	Multiplier
Fixture Side	80	1
	81	0.95
	82	0.93
Environment Side	84	1
	85	0.981
	86	0.969
	87	0.938
	88	0.844
	94	1
	96	0.991
97	0.956	