

Project		Catalog #		Type	
Prepared by		Notes		Date	



Fail-Safe

FCT

Correctional Surface
20" Nominal Width
2', 4' Lengths

Typical Applications

Correctional • Psychiatric Wards • Detention Centers • Secure Corridors • General Population Areas • Public Spaces • Rough Service Areas • Factories • Behavioral Health

Interactive Menu

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

Product Certification



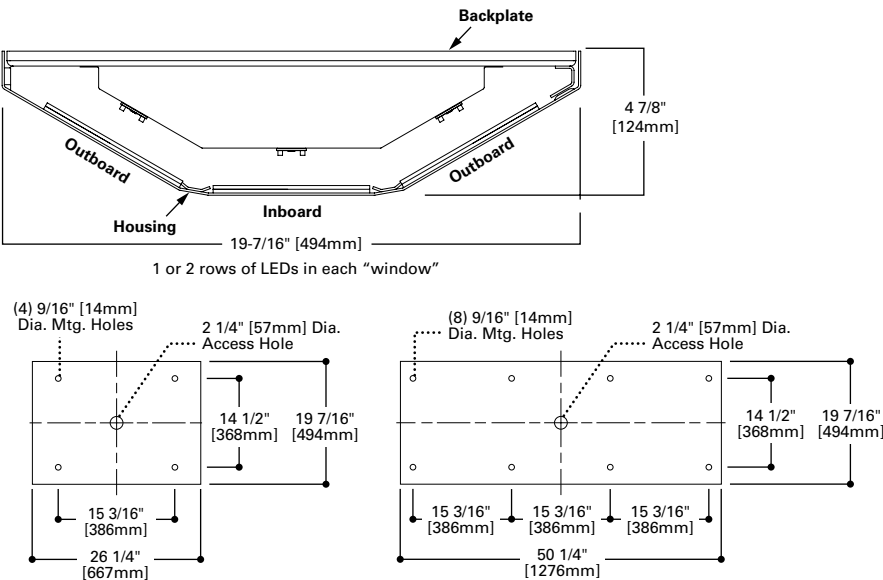
Product Features



Top Product Features

- Ceiling or wall surface-mount, with three illumination "windows"
- Heavy duty 12, 14 or 16 gauge steel or stainless steel outer housing
- Prismatic or opal inner lenses; clear polycarbonate or clear tempered glass outer protective lenses
- Backplate forms an irretrievable blade trap preventing contraband concealment
- 3000K, 3500K, 4000K and 5000K CCT; 80 CRI minimum. 90 CRI available.
- Over 22,000 delivered lumens from the 4' FCT for a variety of illumination levels and ceiling heights
- Options to meet Buy American Act requirements

Dimensional and Mounting Details



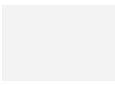
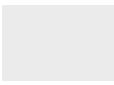
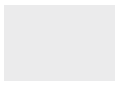
Order Information

SAMPLE ORDER NUMBER: **FCT-S-4-LD4-2STD/4STD-35-UNV-80/84-EDC2**
FCT-X-4-LD4-1LO/2STD-40-UNV-80/86-EDC2-EL10W

Domestic Preferences ⁽¹⁾	Product	Housing Thickness	Length	LED	Inboard Rows of LEDs	Inboard Illumination Level	Outboard Rows of LEDs	Outboard Illumination Level
[Blank] =Standard BAA =Buy American Act	FCT =Surface Correctional	S =12 ga. (Ultimax) X =14 ga. (Maximum) D =16 ga. (Medium)	2 =2' 4 =4'	LD4 =LED Version 4.0	Inboard 1=1 Row of LEDs 2=2 Rows of LEDs ⁽²⁾	LO =Low STD =Standard HI =High	Outboard 2=2 Rows of LEDs (1 row each side) 4=4 Rows of LEDs (2 rows each side) ⁽³⁾	LO =Low STD =Standard HI =High
Notes (1) 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 (2) Emergencies not available in the "2row inboard / 4row outboard" configuration. 		Notes (3) Emergencies not available in the "2row inboard / 4row outboard" configuration. 	

Color Temperature	Voltage	Lens Type ⁽⁵⁾		Driver	No. of Circuits	Options
30 =3000K 35 =3500K 40 =4000K 50 =5000K	UNV =120V-277V 120 =120V 277 =277V 347 =347V ⁽⁴⁾	Fixture Side (Inner Lens) 89CW =0.020 Smooth/White Diffuse 80 =0.125 Prismatic Acrylic 81 =0.156 Prismatic Polycarbonate 82 =0.187 Prismatic Polycarbonate	Environment Side (Outer Lens) 84 =0.125 Clear Polycarbonate 85 =0.187 Clear Polycarbonate 86 =0.250 Clear Polycarbonate 87 =0.375 Clear Polycarbonate 88 =0.500 Clear Polycarbonate 94 =0.187 Clear Tempered Glass 96 =0.250 Clear Tempered Glass 97 =0.375 Clear Tempered Glass	Electronic Driver EDC _=Electronic, Non-Dimming EDD _=Electronic, Dimming 10% ED1D _=Electronic, Dimming 1% ELV _=Electronic Low Voltage	1 =1 Circuit 2 =2 Circuits ⁽⁶⁾ 3 =3 Circuits	EL7W =Emergency Battery Pack, 7W Output ^{(7), (8), (10)} EL10W =Emergency Battery Pack, 10W Output ^{(7), (8), (10)} LLNL =Linear LED Night Light ⁽⁹⁾ GLR =Fuse and Holder ⁽¹⁰⁾ 12GA =12 Gauge Backplate Stainless Steel Housing SSN =Natural Brushed Finish SSP =Polyester Powder Coat Finish SF3 =Allen-head (Center-pin reject) 90 =90CRI Standard Colors [Blank] =Matte White AM =Antimicrobial Matte White GW =Gloss White DP =Dark Platinum, Satin Finish BK =Black, Satin Finish BZ =Bronze Architectural Colors TCB =Terra Cotta Brick MRR =Merlot Red PMK =Pumpkin GLD =Goldenrod SGG =Sage Green EVG =Evergreen CBL =Coastal Blue NTB =Night Blue UMB =Ultramarine Blue PPV =Purple Violet NTN =Neutral Tan DBG =Dark Beige CRM =Cream SLG =Silver Grey OLG =Olive Green MHB =Mahogany Brown RALxxxx =RAL Number Color ⁽¹¹⁾
	Notes (4) 347 emergencies not available. 2ft length with LLNL not available with 347. GLR not available with 347.	Notes (5) Total lens thickness in combination not to exceed 0.750".			Notes (6) EDC2, EDD2, ED1D2, ELV2 defaults to inboard/outboard wiring.	Notes (7) Emergency driver energizes the "inboard" LEDs. Emergency options available LO or STD only. (8) Emergencies not available in the "2row inboard / 4row outboard" configuration. (9) LLNL (placed in inboard window) and is only available with 1row for the "inboard," not available with 2row "inboard." (10) 347 emergencies not available. 2ft length with LLNL not available with 347. GLR not available with 347. (11) Replace XXXX with unique 4 digit RAL number. Please contact Fail-Safe Tech for a list of additional finish swatches.

Fail-Safe Standard Colors

		
Gloss White (GW)	Matte White (BLANK)	Matte White Anti-microbial (AM)
		
Black (BK)	Dark Platinum (DP)	Bronze (BZ)

Fail-Safe Architectural Colors

							
Terra Cotta Brick (TCB) RAL 3020	Merlot Red (MRR) RAL 3005	Pumpkin (PMK) RAL 2004	Goldenrod (GLD) RAL 1003	Sage Green (SGG) RAL 6019	Evergreen (EVG) RAL 6001	Coastal Blue (CBL) RAL 5015	Night Blue (NTB) RAL 5022
							
Ultramarine Blue (UMB) RAL 5002	Purple Violet (PPV) RAL 4007	Neutral Tan (NTN) RAL 7032	Dark Beige (DBG) RAL 7006	Cream (CRM) RAL 9001	Silver Gray (SLG) RAL 7001	Olive Green (OLG) RAL 6003	Mahogany Brown (MHB) RAL 8016

Product Specifications

Housing

- Die-formed 12, 14, or 16 gauge steel or stainless steel housing
- One-piece, seamless housing
- Continuous welded and ground ends
- Maximum impact resistance and prevention of unauthorized fixture penetration
- High gloss, electrostatically applied, White powder coat finish
- Average minimum reflectance 92%
- Electrostatically applied, matte white powder coat finish; gloss white, silver, black, bronze, dark platinum available; Custom colors available (supply RAL number, paint chips, or paint manufacturer catalog number). 16 architectural colors available.

Fasteners and Hinge

- Stainless steel tamper-resistant T20 TORX® screws with center pin reject standard
- Allen head screws with center pin reject optional
- Concealed clevis brackets leaves no exposed parts for weapon fabrication and facilitates easy maintenance

Backplate

- Die-formed 14-gauge steel; 12-gauge optional
- Forms an irretrievable blade trap to prevent contraband concealment

Lens and Lens Retention

- Choice of prismatic acrylic, prismatic polycarbonate, or opal acrylic on fixture (inner) side
- Clear polycarbonate or clear tempered glass on environmental (outer) side (see lens options)
- Lens secured by thru-studs and heavy duty hold-downs
- Vertically adjustable internal steel 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
- 90 CRI available

Electrical

- Electronic driver 120-277V; dimming driver standard
- 0-10V dimming to 1% or 10%
- Non-dimming available

Compliance

- cULus listed for damp locations

Warranty

- Five-year limited warranty on LEDs and electrical

Nominal Input Watts/Delivered Lumens

[View IES files](#)

80/84	Inboard (Center Lens)				
Fixture Length	# Modules Inboard	Level	Nominal Input Watts	Nominal Delivered Lumens	LPW
2'	1	LO	12	1279	107
	1	STD	17	1713	101
	1	HI	22.1	2102	95
	2	LO	23.9	2559	107
	2	STD	34.1	3427	101
4'	1	LO	23.9	2559	107
	1	STD	34.1	3427	101
	1	HI	44.2	4203	95
	2	LO	47.9	5118	107
	2	STD	68.1	6854	101

80/84	Outboard (2 Outer Lens)				
Fixture Length	# Modules Outboard	Level	Nominal Input Watts	Nominal Delivered Lumens	LPW
2'	2	LO	23.6	2600	110
	2	STD	33.3	3453	104
	2	HI	43.5	4309	99
	4	LO	47.1	5199	110
	4	STD	66.6	6907	104
4'	2	LO	47.1	5199	110
	2	STD	66.6	6907	104
	2	HI	87	8616	99
	4	LO	94.2	10399	110
	4	STD	133.2	13812	104

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

Approximate CCT Multiplier	
3000K	0.98
3500K	1.00
4000K	1.00
5000K	1.01

Weight Table

Estimated Weight	
2', 14 ga. 80/86 lens RDP	30 lbs.
4', 14 ga. 80/86 lens 0.6725	55 lbs.