Fail-Safe

DESCRIPTION

The Fail-Safe FMSLED combines maximum security construction features with energy saving technology. This surface mounted luminaire utilizes a one-piece housing, security lensing and tamper-resistant fasteners to maximize impact resistance and prevent contraband concealment and unauthorized fixture penetration. ETL listed for damp locations; optional wet location under covered ceiling. The FMSLED is ideal for confinement/security applications. Suitable for use in inmate cells, psychiatric wards, secure corridors and general population areas.

Catalog #		**Type**
Project		
Comments		**Date**
Prepared by		

SPECIFICATION FEATURES

Fasteners
Stainless steel tamper-resistant T20 TORX® screws with center pin reject are standard. Allen-head screws with center pin reject optional.

Housing
Die-formed 12-18 ga. CRS body with continuous welded and ground ends to form a one-piece, seamless housing for maximum impact resistance and prevention of unauthorized fixture penetration.

Finish
High gloss, electrostatically applied, white powder coat finish, average minimum reflectance 92%.

Hinge
Continuous, stainless steel piano hinge (1/4" diameter knuckle) with welded pin end to prevent removal.

Door
One-piece, CRS door frame with die-formed edges and tightly closed corners increases rigidity. Door gauge to match housing.

Light Mask
Black fixture gasket prevents light leaks.

Lens
Choice of prismatic acrylic, prismatic polycarbonate or prismatic tempered glass on fixture side, clear polycarbonate or clear tempered glass on environmental side. See Lens Options.

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

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

Transformer/Driver
Electronic driver 120-277V. 0-10V dimming standard.

Labels
ETL listed for damp locations. Wet location under covered ceiling optional.

Warranty
Five year warranty on LED's and electrical.

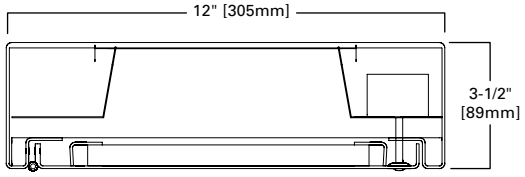
FMS LED

LD4 LED

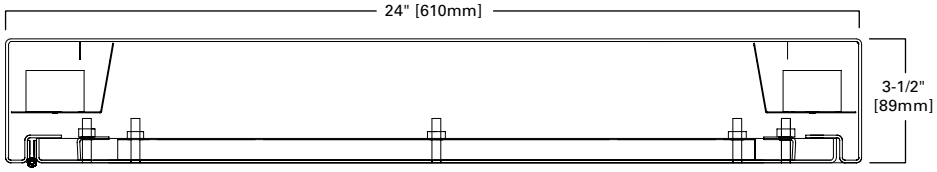
1' Width
2' Width
Confinement/Correctional

Surface

1' x 1', 1' x 2', 1' x 4'



2' x 2', 2' x 4'



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ORDERING INFORMATION

SAMPLE NUMBER: FMS-X24-4-LD4-4STD-40-UNV-80/86-EDC1 or FMS-S12-2-LD4-2HI-50-277-82/87-EDC1-EL10W

Product Family	Door	Width	Length	LED	No. of LED	Illumination Level	Color Temp.	Voltage	Inner / Outer Lens	Driver	No. of Circuits	Options	Accessories
FMS				LD4					/				

FMS

S=12 ga. (Ultimax)
X=14 ga. (Maximum)
D=16 ga. (Medium)
N=18 ga. (Minimum)

24 =24" Wide
12 =12" Wide

1=1' Length (1' x 1' only)
2=2' Length
4=4' Length

LD4=LED

1=(1) LED Module
2=(2) LED Modules
3=(3) LED Modules (24" width only)
4=(4) LED Modules (24" width only)

STD=Standard
LO=Low
HI=High

30=3000K
35=3500K
40=4000K
50=5000K

UNV=120-277V
120=120V
277=277V

Lens Type
Inner Layer (optional)
90=0.005 UV Absorbing Overlay
Fixture Side
80=0.125 Prismatic Acrylic
81=0.156 Prismatic Polycarbonate
82=0.187 Prismatic Polycarbonate
93=0.156 Prismatic Tempered Glass

Environmental Side
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 Driver, Non-dimming
EDD_=Electronic Driver, 0-10V Dimming, 10%
ED1D_=Electronic Driver, 0-10V Dimming, 1%

1=1 Circuit
2=2 Circuits
3=3 Circuits
4=4 Circuits

EL7W=Emergency Battery [2] Pack, 7W Output
EL10W=Emergency Battery [2,3] Pack, 10W Output
EL14W=Emergency Battery [2] Pack, 14W Output
LLNL=Linear LED Night Light, Dimmable [4, 5]
GLR=Fuse and Holder
WL=Wet Location Under Covered Ceiling

Stainless Steel Fixture
SSN=Natural Brushed Finish
SSP=Polyester Powder Coat Finish

Fasteners
SF3=Allen-Head (center pin reject)

9306=Allen-Head Wrench
VRSD=T20 Center Pin Tamperproof TORX® - head screwdriver

NOTES:
1 See Lens Guide for additional lens choices.
2 Not available 1' x 1' or 1' x 2'.
3 Not available in "HI" illumination level. EL10W available all configurations "STD" or "LO". Emergency available "HI" all configurations except 2' x 2' and 2' x 4', 4-module LED cross section.
4 LLNL not available in 1' x 1', 2-module LED cross section or 1' x 2', 2-module LED cross section.
5 Nominal 600 delivered lumens.

NOMINAL INPUT WATTS/DELIVERED LUMENS (80/86 SHIELDING)

				(80/86 shielding)					(80/86 shielding)
Fixture Size	**# Modules**	**Level**	**Nominal Input Watts**	**Nominal Delivered Lumens**	**Fixture Size**	**# Modules**	**Level**	**Nominal Input Watts**	**Nominal Delivered Lumens**
1' x 1'	1	STD	9.1	621	1' x 4'	1	LO	26.2	1790
	2	STD	18.3	1225		1	STD	36.6	2480
1' x 2'	1	LO	13.1	906		1	HI	47.2	3160
	1	STD	18.3	1681		2	LO	47.9	4444
	1	HI	23.6	1585		2	STD	68.1	5906
	2	LO	26.2	1789		2	HI	90.1	7153
	2	STD	36.6	2477	2' x 4'	2	LO	52.4	3605
	2	HI	47.2	3185		2	STD	73.2	4985
2' x 2'	2	LO	26.2	1789		2	HI	90.0	6370
	2	STD	36.6	2477		3	LO	78.6	7526
	2	HI	47.2	3185		3	STD	109.8	10002
	3	LO	39.3	2880		3	HI	137.2	12114
	3	STD	54.9	3827		4	LO	104.8	9511
	3	HI	70.8	4635		4	STD	146.4	12639
	4	LO	52.4	3851		4	HI	180.0	15308
	4	STD	73.2	5117					
	4	HI	94.4	6198					

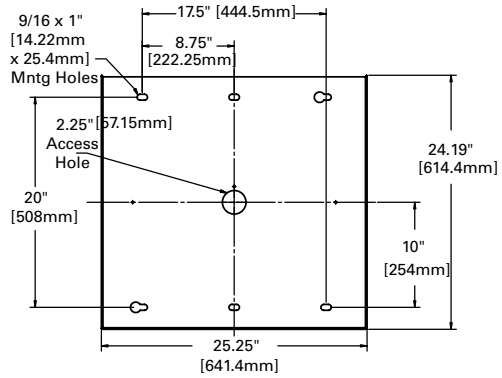
Nominal input wattage values include LED voltage, drive current, and typical driver efficiency. Refer to LM79 data/photometric files for exact delivered lumen values and input wattage. Values in table are nominal values only.

Eaton
1121 Highway 74 South
Peachtree City, GA 30269
P: 770-486-4800
www.eaton.com/lighting

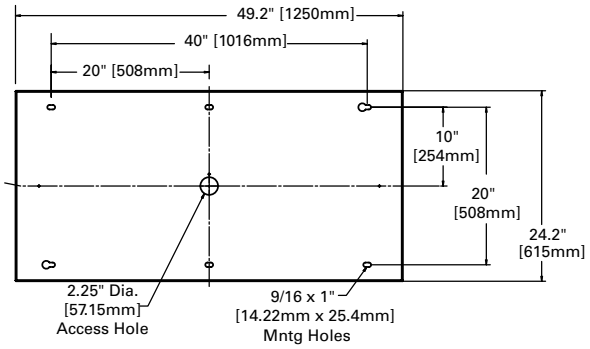
Specifications and dimensions subject to change without notice.

MOUNTING DIMENSIONS

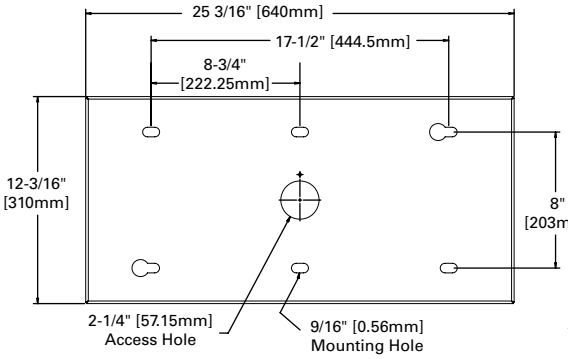
2 x 2



2 x 4



1 x 2



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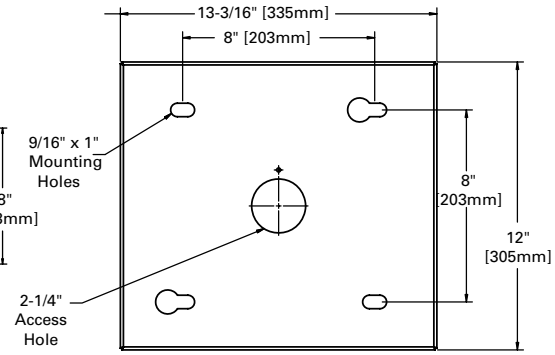
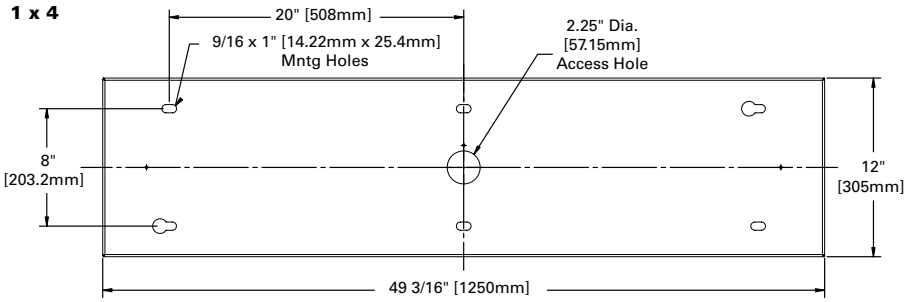
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