

Fail-Safe

DESCRIPTION

Fail-Safe's CLM sealed enclosure product is available with overlapping and inset doors. Available in 1 x 2, 1 x 4, 2 x 2 and 2 x 4 sizes, the CLM Series cleanroom fixtures are Class 100 rated (English 209E), ISO Class 5-8 rated and IP65 compliant.

Catalog #		Type
Project		
Comments		Date
Prepared by		

SPECIFICATION FEATURES

Mounting

Recessed grid for 1" or 1 1/2" NEMA Type "G" ceiling systems. Recessed flange for use with hard-pan ceilings. Mounting safety clips (4) available.

Housing

3 1/2" deep, die-formed, heavy gauge steel, powder coat painted white. Welded construction. Optional die-formed aluminum.

Door

Overlapping door, constructed of one piece die-formed steel or aluminum.

Inset door, constructed of die-formed steel or aluminum. All doors attached to the housing with two stainless steel aircraft cables.

Fasteners

Captive, countersunk stainless steel Philips head screws secure door frame to the housing.

Gasketing

Lens to Door Frame:

Continuous gasket adheres lens to door frame.

Door Frame to Housing:

Closed-cell gasket.

Housing to Grid: Closed-cell gasket (optional).

Lens

Pattern 12 acrylic, 0.125" thick, inverted. Other lenses available, including polycarbonate and glass.

LED

LEDs available in 3000K, 3500K, 4000K, and 5000K with 85 CRI. Life is 50,000 hours at 70% lumen maintenance.

Driver

Electronic, standard 0-10V. Dimming available.

Finish

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

Compliance/Ratings

Class 100
ISO Class 5-8
IP65
100 PSI hosedown
NSF=NSF2 Listed (Non-food, splash zone)

Labels

ETL listed for wet locations under covered ceilings.



CLM

LD4 LED

Sealed/ Cleanroom

RECESSED FLANGE
RECESSED GRID
2x4/2x2/1x4/1x2

Inset or Overlapping Door
Wet Location
IP65 Rated
ISO Class 5, 6, 7, 8
Class 100
100 PSI Hosedown
NSF

2' x 2'		
No. of Modules, Level	Input Watts	Delivered Lumens*
2LO	26.2	2552
2STD	36.6	3384
2HI	45.2	4100
3LO	39.3	3179
3STD	54.9	4247
3HI	70.8	5522
4LO	52.4	4889
4STD	73.2	6482
4HI	90.3	7852

2' x 4'		
No. of Modules, Level	Input Watts	Delivered Lumens*
2LO	52.4	5461
2STD	73.2	7240
2HI	90.5	8772
3LO	78.6	6408
3STD	109.8	9140
3HI	141.8	11295
4LO	104.8	10663
4STD	146.4	14138
4HI	181.1	17129

1' x 4'		
No. of Modules, Level	Input Watts	Delivered Lumens*
1LO	26.2	2598
1STD	36.6	3445
1HI	45.3	4173
2LO	52.4	5010
2STD	73.2	6643
2HI	90.2	8048

* Approximate delivered lumens.

* Verify with actual photometric test reports.

RATINGS

ETL listed
Wet location
Class 100
ISO 5-8
IP65
Anti-microbial (Available)
100 PSI hosedown
NSF

ORDERING INFORMATION

SAMPLE NUMBER: CLMF-12-4-ALH-INA-A12125-LD4-2STD-40-UNV-EDC2-MSB4-AMD
CLMG-24-2-INS-A19156-LD4-4STD-50-UNV-EDC1-EL10W-DF-AMA

Product Family	Mounting	Width	Length	Housing Material	Door Type	Lens	LEDs	No. of LEDs	Illum Level	Color Temp.	Voltage	Driver	No. of Circuits	Options
CLM							LD4							
<p>Series CLM=Cleanroom Moderate</p> <p>F=Flange 2 G=Grid (1", 1-1/2" NEMA G) S=Surface 5 (Surface available in 1x4, 2x2 and 2x4)</p> <p>24=24" Wide 12=12" Wide</p> <p>2=2' Length 4=4' Length</p> <p>Blank=Cold Rolled Steel, Powder Coat Painted White ALH=Aluminum Housing, Powder Coat Painted White SHP=Stainless Steel (304), Powder Coat Painted White SHB=Stainless Steel (304) Brushed</p> <p>Inset Die Formed, One Piece INS=Inset Door, Die-formed Steel, Painted White INSSP=Inset Door, Die-formed Stainless Steel, Painted White (Replace P with B for Brushed) INA=Inset Door, Die-formed Aluminum, Painted White Overlapping, One Piece OLS=Overlapping Door, Die-formed Steel, Painted White OLSSP=Overlapping Door, Die-formed Stainless Steel, Painted White (Replace P with B for Brushed) OLA=Overlapping Door, Die-formed Aluminum, Painted White</p> <p>A12125=Pattern 12 Acrylic, 0.125" Thick, Inverted A19156=Pattern 19, 0.156" Thick, Inverted P12125=Pattern 12 Polycarbonate, 0.125" Thick, Inverted Other Lenses / thicknesses available, consult factory or Lens Ordering Guide on web-site</p> <p>LD4=Linear LED, Version 4.0</p> <p>1=(1) LED Module in X-section 2=(2) LED Modules in X-section 3=(3) LED Modules in X-section (2' Width Only) 4=(4) LED Modules in X-section (2' Width Only)</p> <p>STD=Standard LO=Low HI=High</p> <p>30=3000K 35=3500K 40=4000K 50=5000K</p> <p>120=120V 277=277V UNV=120-277V</p> <p>EDC_=Electronic Driver, Non-Dimming EDD_=Electronic Driver, 0-10V Dimming 10% ED1D_=Electronic Driver, 0-10V Dimming 1%</p> <p>1= 1 Circuit 2= 2 Circuit 3= 3 Circuit 1 4= 4 Circuit 1</p> <p>MSB4=Mounting Safety Brackets 6 (4) with hardware EL7W=7W EM Pack 4,5 EL10W=10W EM Pack 4,5 EL14W=14W EM Pack 4,5 AMA=Anti-microbial, All Parts AMD=Anti-microbial, Door Only GSK=Gasketing applied to housing flange to rest on grid (CLMG), applied to housing flange to seal against ceiling (CLMF)</p>														

Notes:

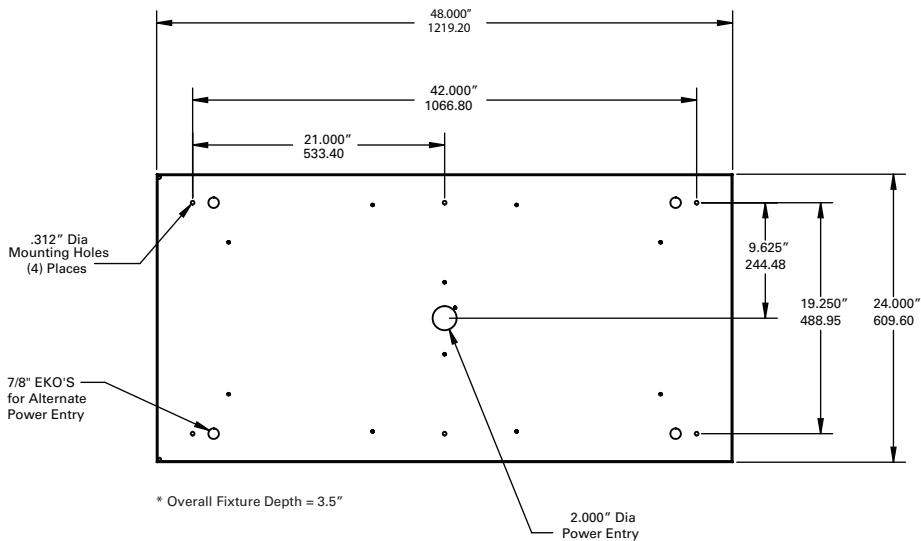
1. 3 and 4 Circuit only available in 4' length fixture
2. Flange ship standard with (4) mounting brackets for quick and easy installation.
3. Hard metric fixtures available (600mm x 600mm, 300mm x 1200mm, 600mm x 1200mm). Consult product technical support to verify ceiling compatibility (Main-T height and width, Cross-T height and width, other related specifications).
4. Emergency requires backbox on fixture top, which adds approximately 3" to fixture height.
5. Emergency not available on Surface mount.
6. MSB4 for use with grid fixtures only.

Accessories

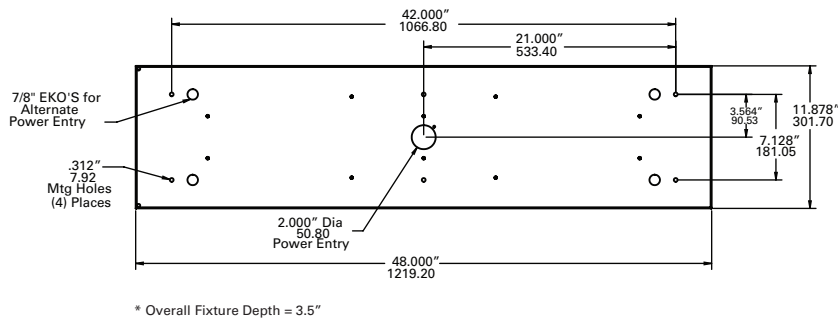
MSB4-PK=Mounting Safety Brackets 6 (4) with Hardware

Surface

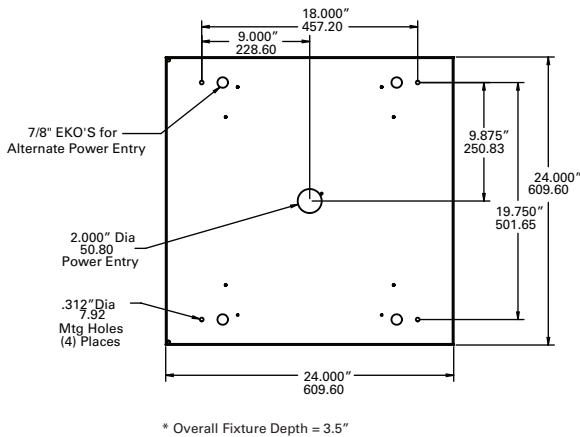
2x4 CLPS Mounting Detail



1x4 CLPS Mounting Detail

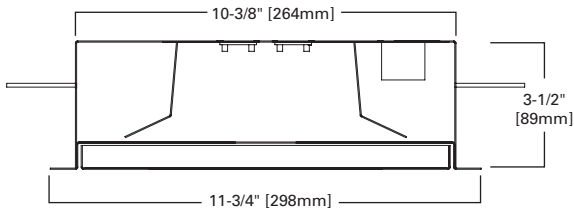


2x2 CLPS Mounting Detail

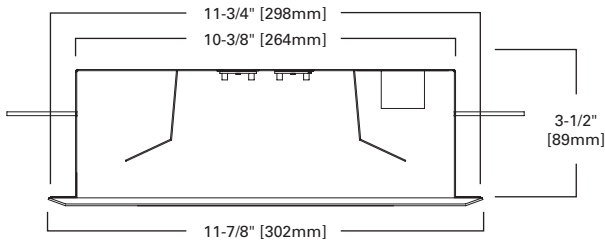


Recessed Flange

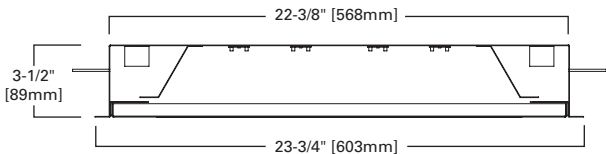
1' Wide, Inset Door



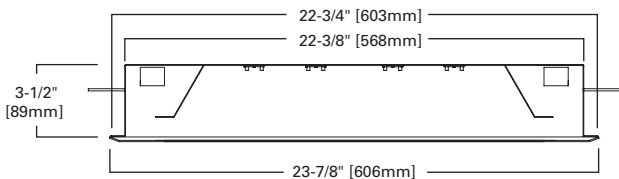
1' Wide, Overlapping Door



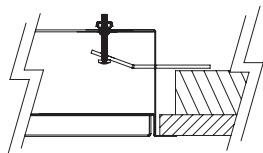
2' Wide, Inset Door



2' Wide, Overlapping Door



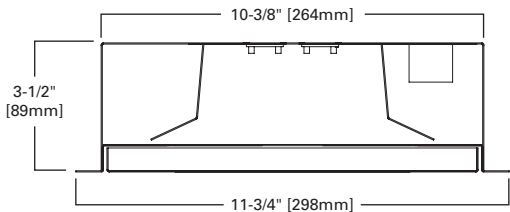
Mounting Bracket - Standard



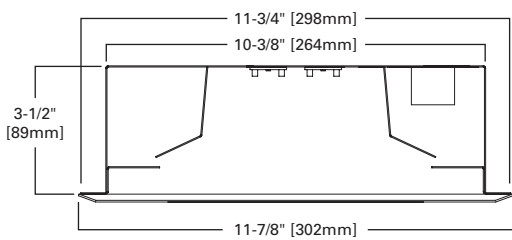
Cut-Out Dimensions	
1x4	10-5/8" x 46-5/8"
1x2	10-5/8" x 22-5/8"
2x4	22-5/8" x 46-5/8"
2x2	22-5/8" x 22-5/8"

Recessed Grid

1' Wide, Inset Door



1' Wide, Overlapping Door



2' Wide, Inset Door



2' Wide, Overlapping Door

