Fail-Safe

DESCRIPTION

Fail-Safe's LED sealed enclosure product is available with overlapping and inset doors. Available in 1 x 1, 1 x 2, 1 x 4, 2 x 2 and 2 x 4 sizes, the CLP Series cleanroom fixtures are Class 100 rated (English 209E), ISO Class 5-8 rated, IP66 compliant, absent of holes for a robust seal from above the ceiling, and NSF rated. Overlapping door compatible with 2" wide ceiling systems, with standard on-center spacing (1 x 4, 2 x 2, 2 x 4).

Catalog #	Туре
Project	
Comments	Date
Prepared by	

SPECIFICATION FEATURES

Mounting

Recessed grid for 1" or 1 1/2" NEMA Type "G" ceiling systems. Overlapping door compatible with 2" wide ceiling systems, with standard on-center spacing (1 x 4, 2 x 2, 2 x 4). Recessed flange for use with hard-pan ceilings. Optional mounting safety clips (4) available.

Housing

Die-formed, heavy gauge steel, powder coat painted white. Seam-welded construction, absent of holes. Optional stainless steel (Type 304 or 316) or aluminum.

Door

Overlapping door, constructed of one piece die-formed steel, stainless steel (304 standard, 316 optional) or aluminum.

Inset door, constructed of dieformed steel, stainless steel (304 standard, 316 optional), 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: One piece continuous closed-cell silicone gasket seals lens to door frame.

Door Frame to Housing or Ceiling: One piece continuous closed-cell gasket.

Housing to Grid: Closed-cell silicone gasket.

Lens

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

LED

LEDs available in 2000K, 2700K, 3000K, 3500K, 4000K, and 5000K with 85 CRI. Red (630nm) LEDs available. Life is 50,000 hours at 70% lumen maintenance.

Driver

Electronic, standard 0-10V dimming.

Finish

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

Compliance/Ratings

Class 100 ISO Class 5-8 IP66 NSF=NSF2 Listed (Non-food, splash zone)

Labels

ETL listed for wet locations under covered ceilings.



CLP

LD4 LED

Sealed/ Cleanroom Vivarium / Red LED's

RECESSED FLANGE
RECESSED GRID
2x4/2x2
1x4/1x2/1x1
Inset or Overlapping Door
Wet Location
IP66 Rated
ISO Class 5, 6, 7, 8
NSF Rated

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	
ЗНІ	70.8	5522	
4LO	52.4	4889	
4STD	73.2	6482	
4HI	90.3	7852	

^{*} Approximate delivered lumens, 4000K.

^{*} DF option decreases delivered lumens by ~12%.

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
ЗНІ	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 Color Temperature Multiplier

5000K	1.09
4000K	1.00
3500K	0.97
3000K	0.94
2700K	0.91
2000K	0.68

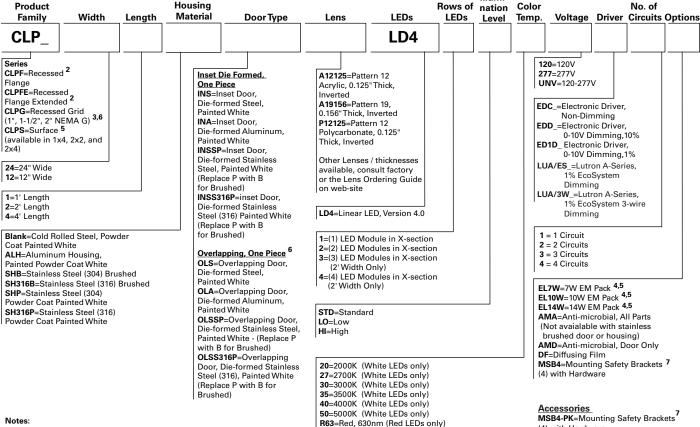


^{*} Verify with actual photometric test reports.

^{*} A12125 lens.

SAMPLE NUMBER: CLPF-12-4-ALH-INA-A12125-LD4-2STD-40-UNV-EDC2-AMD CLPG-24-2-ALH-INA-A19156-LD4-4STD-50-UNV-EDC1-EL10W-DF-AMA CLPG-24-4-INS-A12125-LD4-3HIR63-UNV-EDC2

(White only) (White only) (Red only)



Notes:

- 1. 3 and 4 Circuit only available with 4' length fixtures.
- 2. Flange and extended flange ship standard with (4) Swing-out 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 CLPS (surface mount).
 6. Compatible with 2" wide ceiling systems with standard on-center spacing (1 x 4, 2 x 2, 2 x 4).
- 7. MSB4 for use with grid fixtures only.

Please see below for ordering logic for the application of Red & White Leds in combination

Sample Number: CLPG-24-4-INS-A12125-LD4-4LOR63-UNV-EDC1 (Red only) Sample Number: CLPG-24-4-INS-A12125-LD4-4STD-40-UNV-EDC1 (White only) Sample Number: CLPF-24-4-INS-A12125-LD4-2LO30/2LOR63-UNV-EDC2 (White/Red)

(4) with Hardware

Illumi-

* Red & White LEDs (4 modules max in cross-section)

Rows of White	Ilumination Level White	Color Temp White	/	Rows of Red	Ilumination Level Red	Color Temp Red
1	STD	30	/	1	STD	R63
2	LO	35	/	2	LO	
3	HI	40		3	HI	
4		50		4		

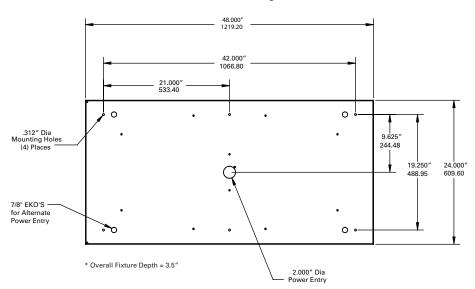
2x2/2x4 LED Placement (Red/White)			
#Total Rows of LEDs	# Rows of White LEDs	# Rows of Red LEDs	Placement of Red & White LEDs
3	2	1	White,Red,White
3	1	2	Red,White,Red
4	3	1	White,White,Red,White
4	2	2	White,Red,Red,White
4	1	3	Red,Red,White,Red

Approximate Lumen Multiplier for Red LED's		
Color	Multiplier from White 4000K	
White, 4000K	1.00	
Red, 630nm	0.30	

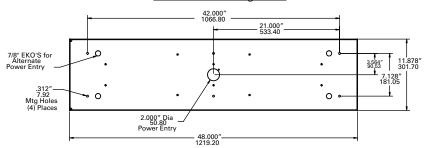


Surface

2x4 CLPS Mounting Detail

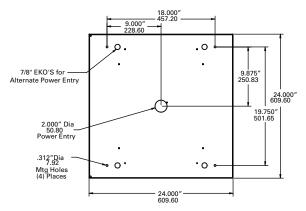


1x4 CLPS Mounting Detail



* Overall Fixture Depth = 3.5"

2x2 CLPS Mounting Detail

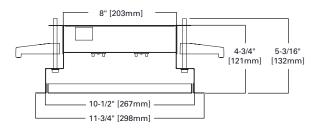


* Overall Fixture Depth = 3.5"

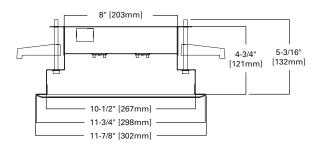


Recessed Flange

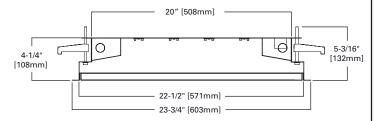
1' Wide, Inset Door



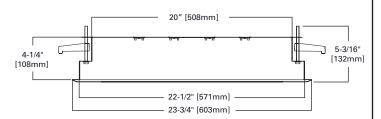
1' Wide, Overlapping Door



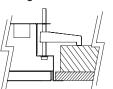
2' Wide, Inset Door



2' Wide, Overlapping Door



Swing-out Bracket - Standard

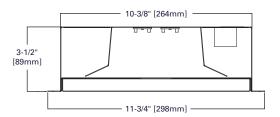


Cut-Out Dimensions

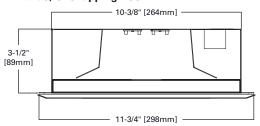
1x4	10-3/4" x 46-3/4"
1x2 1x1	10-3/4" x 22-3/4" 10-3/4" x 10-3/4"
2x4	22-3/4" x 46-3/4"
2x2	22-3/4" x 22-3/4"

Recessed Grid

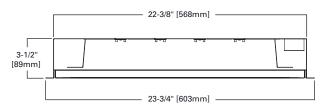
1' Wide, Inset Door



1' Wide, Overlapping Door



2' Wide, Inset Door



2' Wide, Overlapping Door

