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

Fail-Safe

CLP | LD4 LED

Sealed, Recessed Grid, Recessed Flange, Surface
1' x 1', 1' x 2', 1' x 4', 2' x 2' and 2' x 4';
Wet Location

Typical Applications:

Cleanrooms • Pharmaceuticals • Vivariums • Hosedown • Food Prep • Darkroom

🚀 Interactive Menu

- Order Information page 2
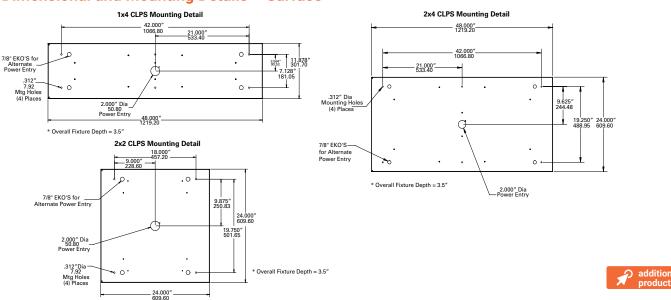- Product Specifications page 3
- Product Warranty

Product Certification

UL CERTIFIED SAFETY   NSF   IP66   ISO5 CLEANROOM   BAA

Product features

☁ wet location

Top Product Features

- Recessed grid or flange, surface-mount; Flange fits into grid ceilings; Overlapping and inset doors
- Die-formed heavy gauge steel, aluminum or stainless steel housing and door
- Pattern 12 acrylic or polycarbonate lens; Other lenses available
- IP66 rated, NSF listed and Class 100 rated (ISO 5-8); Wet Location listing under covered ceilings
- 2000K, 2700K, 3000K, 3500K, 4000K and 5000K CCT; 80 CRI minimum; Red LEDs available
- Options to meet Buy American Act requirements

Dimensional and Mounting Details - Surface

1x4 CLPS Mounting Detail

7/8" EKO'S for Alternate Power Entry

.312"
7.92
Mtg Holes
(4) Places

2.000" Dia
50.80
Power Entry

42.000"
1066.80

21.000"
533.40

3.564"
90.53

11.878"
301.70

7.128"
181.05

48.000"
1219.20

* Overall Fixture Depth = 3.5"

2x4 CLPS Mounting Detail

48.000"
1219.20

42.000"
1066.80

21.000"
533.40

.312" Dia
Mounting Holes
(4) Places

7/8" EKO'S
for Alternate
Power Entry

9.625"
244.48

19.250"
488.95

24.000"
609.60

2.000" Dia
Power Entry

* Overall Fixture Depth = 3.5"

2x2 CLPS Mounting Detail

18.000"
457.20

9.000"
228.60

7/8" EKO'S for
Alternate Power Entry

9.875"
250.83

24.000"
609.60

19.750"
501.65

2.000" Dia
50.80
Power Entry

.312"Dia
7.92
Mtg Holes
(4) Places

24.000"
609.60

* Overall Fixture Depth = 3.5"

🚀 additional product diagrams

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Order Information

SAMPLE ORDER NUMBER: **CLPF-12-4-ALH-INA-A12125-LD4-2STD-40-UNV-EDC2-AMD** (White only)
CLPG-24-2-ALH-INA-A19156-LD4-4STD-50-UNV-EDC1-EL10W-DF-AMA (White only)
CLPG-24-4-INS-A12125-LD4-3HIR63-UNV-EDC2 (Red only)
CLPG-24-4-INS-A12125-LD4-2STD35/2LOR63-UNV-EDC2 (White/Red)

Domestic Preferences	Product Family	Width	Length	Housing Material	Door Type	Lens	LEDs	Rows of LEDs
Domestic Preferences[10]	**Product Family**	**Width**	**Length**	**Housing Material**	**Door Type**	**Lens**	**LEDs**	**Rows of LEDs**
[Blank]=Standard **BAA**=Buy American Act	**CLPF**=Recessed Flange [2] **CLPFE**=Recessed Flange Extended [2] **CLPG**=Recessed Grid [3], [6] (1", 1-1/2", 2" NEMA G) **CLPS**=Surface [5] (only available in 1x4, 2x2,and 2x4)	**24**=24" Wide **12**=12" Wide	**1**=1' Length [9] **2**=2' Length **4**=4' Length	**[Blank]**=Cold Rolled Steel, Powder Coat Painted White **ALH**=Aluminum Housing, Painted Powder Coat White **SHB**=Stainless Steel (304) Brushed **SH316B**=Stainless Steel (316) Brushed **SHP**=Stainless Steel (304) Powder Coat Painted White **SH316P**=Stainless Steel (316) Powder Coat Painted White	**Inset Die Formed, One Piece** **INS**=Inset Door,Die-formed Steel, Painted White **INA**=Inset Door, Die-formed Aluminum, Painted White **INSSP**=Inset Door, Die-formed Stainless Steel, Painted White(Replace P with B for Brushed) **INSS316P**=inset Door, Die-formed Stainless Steel (316) Painted White (Replace P with B for Brushed) **Overlapping, One Piece** [6] **OLS**=Overlapping Door, Die-formed Steel, Painted White **OLA**=Overlapping Door, Die-formed Aluminum, Painted White **OLSSP**=Overlapping Door, Die-formed Stainless Steel, Painted White - (Replace P with B for Brushed) **OLSS316P**=OverlappingDoor, Die-formed Stainless Steel (316), Painted White (Replace P with B for Brushed)	**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 the Lens Ordering Guide on web-site	**LD4**=Linear LED, Version 4.0	**1**=(1) LED Module in X-section **2**=(2) LED Modules in X-section **3**=(3) LED Modules in X-section [9] (1x4, 2x2, 2x4 Only) **4**=(4) LED Modules in X-section (2x2, 2x4 Only) **5**=(5) LED Modules in X-section (2x2, 2x4 Only) [8]
Notes (10) 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) 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). (5) Emergency not available on CLPS (surface mount). (6) Compatible with 2" wide ceiling systems with standard on-center spacing (1x4, 2x2, 2x4).		**Notes** (9) 1x4, 2x2, and 2x4 sizes are available with 3 row LED module cross-section.1x1 and 1x2 sizes are not available with 3 rows of LED's. The 1x4'3LO or 3STD with EM option is available.The 1x4 3HI with EM option is not available.		**Notes** (6) Compatible with 2" wide ceiling systems with standard on-center spacing (1x4, 2x2, 2x4).			**Notes** (8) CLPF, CLPG with 5 LED modules in cross-section, at HI illumination level require voltage specific thermal protector. (9) 1x4, 2x2, and 2x4 sizes are available with 3 row LED module cross-section.1x1 and 1x2 sizes are not available with 3 rows of LED's.The 1x4 3LO or 3STD with EM option is available.The 1x4 3HI with EM option is not available.

Illumination Level	Color Temperature	Voltage	Driver	No. of Circuits	Options		Accessories
Illumination Level	**Color Temperature**	**Voltage**	**Driver**	**No. of Circuits**	**Options**		**Accessories**[11]
STD=Standard **LO**=Low **HI**=High	**20**=2000K (White LEDs only) **27**=2700K (White LEDs only) **30**=3000K (White LEDs only) **35**=3500K (White LEDs only) **40**=4000K (White LEDs only) **50**=5000K (White LEDs only) **R63**=Red, 630nm (Red LEDs only)	**120**=120V **277**=277V **UNV**=120V-277V	**Electronic Driver** **EDC_**=Electronic Driver, Non-Dimming **EDD_**=Electronic Driver, Dimming 10% **ED1D_**=Electronic Driver, Dimming 1%	**1**=1 Circuit **2**=2 Circuits **3**=3 Circuits **4**=4 Circuits [1] **5**=5 Circuits [1]	**EL7W**=7W EM Pack Output [4], [5], [8], [9] **EL10W**=10W EM Pack Output [4], [5], [8], [9] **EL14W**=14W EM Pack Output [4], [5], [8], [9] **AMA**=Antimicrobial, All Parts (Not avaaiable with stainless brushed door or housing) **AMD**=Antimicrobial, Door Only **DF**=Diffusing Film **MSB4**=Mounting Safety Brackets (4) with Hardware [7] **90**=90 CRI		**MSB4-PK**=Mounting Safety Brackets (4) with Hardware [7]
				Notes (1) 4 and 5 Circuits only available with 2x4 fixtures.	**Notes** (4) Emergency requires backbox on fixture top, which adds approximately 3" to fixture height. (5) Emergency not available on CLPS (surface mount). (7) MSB4 for use with grid fixtures only. (8) CLPF, CLPG with 5 LED modules in cross-section, at HI illumination level require voltage specific thermal protector. (9) 1x4, 2x2, and 2x4 sizes are available with 3 row LED module cross-section.1'x1' and 1x2 sizes are not available with 3 rows of LED's.The 1x4 3LO or 3STD with EM option is available.The 1x4 3HI with EM option is not available.		**Notes** (7) MSB4 for use with grid fixtures only.(11) Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information.

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

* Red & White LEDs (5 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	20	1	STD	R63	
2	LO	27	2	LO		
3	HI	30	3	HI		
4		35	4			
5		40	5			
		50				

1x4/2x2/2x4 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
5	1	4	Red,Red,White,Red,Red
5	2	3	Red,White,Red, White,Red
5	3	2	White,Red,White,Red,White
5	4	1	White,White,Red,White,White

Approximate Lumen Multiplier for Red LED's	
Color	Multiplier from White 4000K
White, 4000K	1.00
Red, 630nm	0.29

Product Specifications

Application
• Designed for use in cleanroom where a sealed enclosure product is needed

Housing
• Die-formed heavy gauge steel, seam-welded construction
• Optional stainless steel or aluminum
• Absent of holes for robust seal above ceiling
• High gloss, electrostatically applied, White powder coat finish; Antimicrobial option
• Average minimum reflectance 92%

Fasteners
• Captive, countersunk, stainless steel Phillips-head screws secure door to housing
• Screws are painted to match door finish

Gasketing
• Lens to Door Frame: Once-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

Door
• Overlapping door: One-piece, die-formed steel, stainless steel or aluminum door
• Inset door: Die-formed steel, or aluminum
• Two stainless steel aircraft cables to attach door to housing is provided

Lens
• Pattern 12 acrylic lens; 0.125" thickness; Inverted
• Pattern 19 acrylic lens; 0.156" thickness; Inverted
• Pattern 12 polycarbonate; 0.125" thickness; Inverted
• Other lenses and thicknesses available, refer to Ordering Information

Mounting
• Recessed grid for 1" or 1 ½" NEMA G T-bar system
• Overlapping door compatible with 2" wide ceiling systems with standard on-center spacing (1' x 4', 2' x 2' and 2' x 4')
• Recessed flange for use with hard ceiling pan ceilings
• 4 optional mounting safety brackets
• Surface-mount using 4 holes (0.312")

LEDs
• Available in 2000K, 2700K, 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
• Red (630nm) LEDs available

Electrical
• Electronic driver 120-277V, dimming driver standard
• 0-10V dimming down to 1% or 10%
• Non-dimming available

Compliance
• Class 100 (ISO 5-8)
• cULus listed for wet locations under covered ceilings.
• IP66 rated
• Insulated Ceiling (IC) rated (fixture configuration up to 4 rows of LED modules)
• NSF2 listed (non-food, splash zone)

Warranty
• Five-year warranty on LEDs and electrical, consult website for details. www.cooperlighting.com/legal

Input Watts/Delivered Lumens

1' x 2'

No. of Modules, Level	Input Watts	Delivered Lumens*	LPW
1LO	11.7	1328	113.5
1STD	16.65	1777	106.8
1HI	21.6	2182	101.0
2LO	23.4	2656	113.5
2STD	33.3	3557	106.8
2HI	43.2	4363	101.0

2' x 2'

No. of Modules, Level	Input Watts	Delivered Lumens*	LPW
2LO	23.4	3113	133.0
2STD	33.3	4169	125.2
2HI	43.2	5113	118.4
3LO	35.1	4670	133.0
3STD	49.95	6253	125.2
3HI	64.8	7670	118.4
4LO	46.8	6226	133.0
4STD	66.6	8338	125.2
4HI	86.4	10227	118.4
5LO	58.5	7783	133.0
5STD	83.25	10422	125.2
5HI	108	12784	118.4

* Approximate delivered lumens, 4000K.

* Verify with actual photometric test reports.

* A12125 lens.

1' x 4'

No. of Modules, Level	Input Watts	Delivered Lumens*	LPW
1LO	23.4	2756	117.8
1STD	33.3	3691	110.8
1HI	43.2	4528	104.8
2LO	46.8	5513	117.8
2STD	66.6	7382	110.8
2HI	86.4	9055	104.8
3LO	70.2	8269	117.8
3STD	99.9	11074	110.8
3HI	129.6	13583	104.8

2' x 4'

No. of Modules, Level	Input Watts	Delivered Lumens*	LPW
2LO	46.8	6328	135.2
2STD	66.6	8474	127.2
2HI	86.4	10394	120.3
3LO	70.2	9492	135.2
3STD	99.9	12711	127.2
3HI	129.6	15591	120.3
4LO	93.6	12656	135.2
4STD	133.2	16948	127.2
4HI	172.8	20788	120.3
5LO	117	15820	135.2
5STD	166.5	21185	127.2
5HI	216	25985	120.3

Lumen Calculator

Approximate CCT Multiplier	80 CRI	90 CRI
2000K	0.67	0.56
2700K	0.89	0.75
3000K	0.94	0.82
3500K	0.99	0.83
4000K	1.00	0.84
5000K	1.02	0.88

Lens	Multiplier
A12125	1
A19156	0.994
P12125	0.906

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Dimensional and Mounting Details - Recessed

Recessed Flange
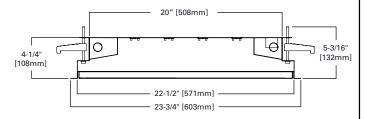
1' Wide, Inset Door

8" [203mm]
4-3/4" [121mm]
5-3/16" [132mm]
10-1/2" [267mm]
11-3/4" [298mm]

1' Wide, Overlapping Door

8" [203mm]
4-3/4" [121mm]
5-3/16" [132mm]
10-1/2" [267mm]
11-3/4" [298mm]
11-7/8" [302mm]

2' Wide, Inset Door

20" [508mm]
4-1/4" [108mm]
5-3/16" [132mm]
22-1/2" [571mm]
23-3/4" [603mm]

2' Wide, Overlapping Door

20" [508mm]
4-1/4" [108mm]
5-3/16" [132mm]
22-1/2" [571mm]
23-3/4" [603mm]

Recessed Grid

1' Wide, Inset Door

10-3/8" [264mm]
3-1/2" [89mm]
11-3/4" [298mm]

1' Wide, Overlapping Door

10-3/8" [264mm]
3-1/2" [89mm]
11-3/4" [298mm]

2' Wide, Inset Door

22-3/8" [568mm]
3-1/2" [89mm]
23-3/4" [603mm]

2' Wide, Overlapping Door

22-3/8" [568mm]
3-1/2" [89mm]
23-3/4" [603mm]
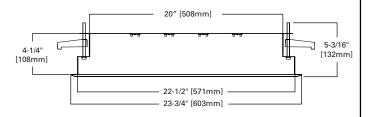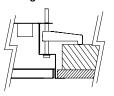
Swing-out Bracket - Standard
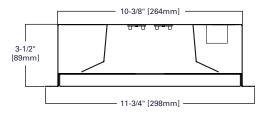
Cut-Out Dimensions
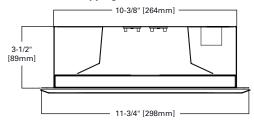
1x4	10-3/4" x 46-3/4"
1x2	10-3/4" x 22-3/4"
1x1	10-3/4" x 10-3/4"
2x4	22-3/4" x 46-3/4"
2x2	22-3/4" x 22-3/4"