

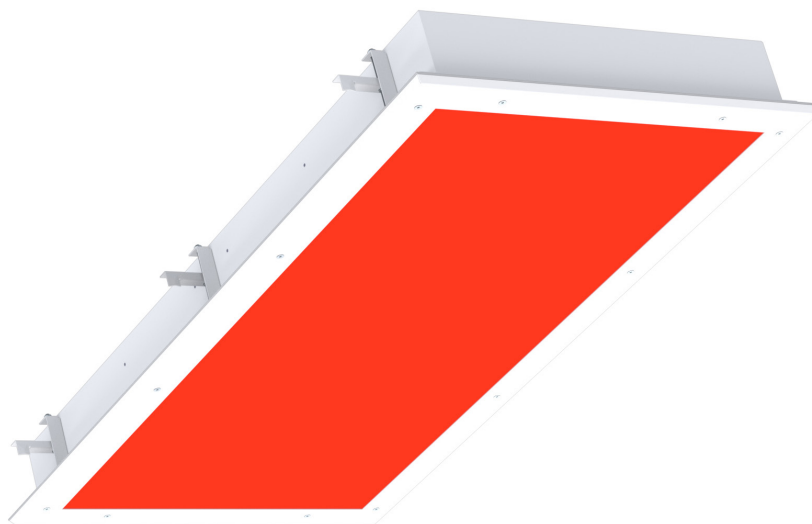
Description:

The CLR series by Amico is a specification-grade, LED recessed flanged IP65, for ISO Class 3-8 cleanrooms. Ideal for pharmaceutical manufacturing, food processing, Life Sciences and laboratories. For use in wet locations, insulated ceilings.

The Solar Series Cleanroom light is available in a 2x4, 2x2 and 1x4 model.

Features:

- Optional emergency batter pack
- Seam welded enclosure
- Long lasting LEDs
- Tunable white

**Construction Material:**

Housing: Precision formed, TIG welded, one piece 20 gauge cold rolled steel housing, Stainless Steel and Aluminium are available as options

Mounting: Swing arm mounting brackets, with vertical adjustability, are used to mount the fixture against the ceiling. Brackets provide an improved continuous seal to plenum eliminating fixture distortion. Compatible with 1" and 1.5" T-Bar ceiling grids for NEMA LE4 Type G installations.

Door: Inset/Overlapping one-piece door frame fabricated from 18-gauge cold-rolled steel with welded corners. Countersunk flat-head stainless-steel captive fasteners with integral silicone O-rings secure the door frame to the housing. The door frame is removable, reversible, and hinged with stainless-steel aircraft cables. A highly resilient, chemical-resistant, microcellular closed-cell silicone gasket provides a reliable seal between the door frame and housing.

Lens: Standard lens: 0.125" thick, impact-resistant diffuse symmetric acrylic lens with a smooth exterior surface for easy cleaning. Lens is sealed to the door frame with RTV silicone sealant and secured with Mechanical brackets. Additional lens options are available as specified by the order code.

Finish: White, polyester powder painted housing.

Specifications:

Voltage: 120-277 Volts; Consult factory for 347 Volts.

Dimming: 0 - 10 Volts and DALI options available.

Color Quality: 80 CRI (80+), 90 CRI (90+).

Standard Color Temperature: 3000K, 3500K, 4000K, 5000K (Refer to Standard White or Amber Spec Sheet for additional options).

Life of LEDs: L80>50,000 hours.

Approvals: Approved to CSA and UL standards. UL listed for wet locations, insulated ceilings. NSF2 for Splash Zone and non-food zones (See Option NS for Food Zone), suitable for Biosafety Level BSL 1-2 applications. BSL 1-3 applications are available with an overlapping door configuration. Rated to withstand washdown pressures up to 2450 psi. IP65.

Warranty: Limited five (5) year warranty.

Ordering Guide:

L - CLR -

Type	Door	CRI	Lumens	Voltage	Lens
I Inset	A 18 Ga. CRS Painted (Std.)	8 80+	1 x 4	UNV 120-277V 347 347V	S Diffuse Symmetric Acrylic (Std.)
O Overlapping	B 20 Ga. CRS Painted	9 90+			T 0.156" Prismatic Acrylic (#19 inv.)
	C 20 Ga. 304 SS Painted	X No White			U 0.125" Prismatic Acrylic (#12 inv.)
	D 18 Ga. 316 SS Painted				V 0.140" Prismatic High Impact (#12 inv.)
	E 18 Ga. 304 SS Painted		2x2		W 0.125" Clear Polycarbonate w/ diffuse inside layer
	F 18 Ga. 316 SS Painted				X 0.125" Acrylic Clear w/ diffuse inner layer
	G 0.050" Aluminum Painted				Y Consult Factory for glass and other lens options

Size

14	1x4
22	2x2
24	2x4

Hsg

B	20 Ga. CRS Painted (Std.)
C	20 Ga. 304 SS Painted
D	18 Ga. 316 SS Painted
G	0.050" Aluminum Painted

CCT

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

TW Tunable White
2700K-6500K**

XX No White

*** Consult Factory for Compatible control options. If Tunable White compatible control is not selected, the luminaire will come standard with two sets of 0-10V wires for dimming and color tuning.

Options

Driver Options

DA	Dimming Addressable Digital
EM	Emergency Bat. Pack -LED 10 Watts*
ES	Emergency Bat. Pack, Self Testing - LED 10 Watts*

Wiring Options

RF	Radio Frequency Filter
TC	Two Circuit Switching

Construction Options

PA	Gasketed Plenum Access Panel (2x4 only)
CP	Chicago Plenum
2T	Hsg. for 2" T-bar (Consult factory for compatibility)

Finish Options (Gloss White Standard)

GW	Gloss White Antimicrobial
WS	White Stainless Steel Door Screws Accessories

Accessories Options

CM	Continuous Row Mtg. (Not Required for Grid)
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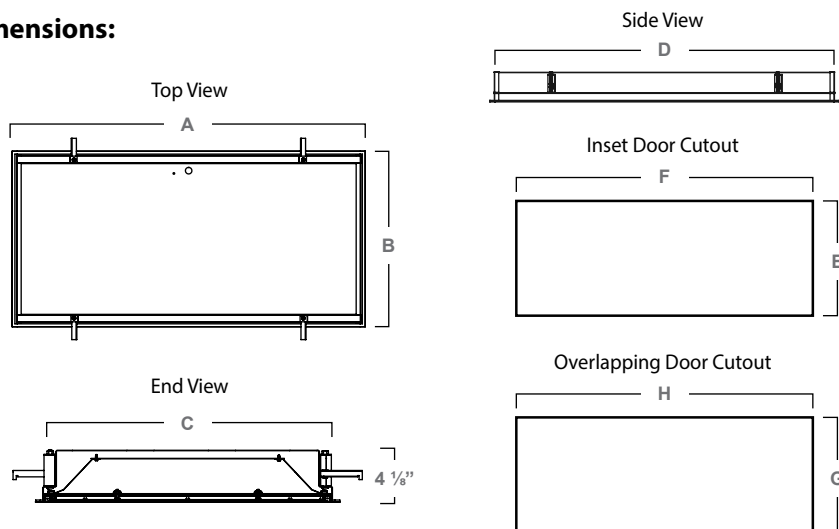
Approval and Rating Options

NS	NSF Food Zone-Non-Contact ^
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* EM is not available for 1x2 size.

^ Lens selection for NSF food zone is included as 0.125" clear acrylic and diffuse inner layer.

Dimensions:



Size	A	B	C	D	E	F	G	H	Weight
1X2	23.75"	11.75"	10.69"	22.75"	10.69"	22.75"	-	-	20 lbs.
1X4	47.75"	11.75"	10.69"	46.75"	10.69"	46.75"	10.88"	46.87"	32 lbs.
2X2	23.75"	23.75"	22.69"	22.88"	22.69"	22.88"	22.88"	22.88"	29 lbs.
2X4	47.75"	23.75"	22.69"	46.75"	22.69"	46.75"	22.88"	46.87"	50 lbs.

Performance Data

Red & White Performance Data							
Size	Order Code	White LED Performance*			RED Performance		Total System Size Order Watts
		Lumens	Watts	Efficacy	Lumens	Watts	
1x4	035R1	3585	32	112	1000	31	63
	055R1	5538	51	109	1000	31	82
	070R1	7064	68	104	1000	31	99
2x2	035R1	3564	31	115	1000	30	61
	055R1	5571	50	111	1000	30	80
	070R1	7035	65	108	1000	30	95
2x4	055R1	5517	45	123	1000	27	72
	055R2	5517	45	123	2000	62	107
	070R1	7085	59	120	1000	27	86
	070R2	7085	59	120	2000	62	121
	100R1	10093	80	126	1000	27	107
	100R2	10093	80	126	2000	62	142
	120R1	12096	99	122	1000	27	126
	120R2	12096	99	122	2000	62	161
	180R1	18103	143	127	1000	27	170

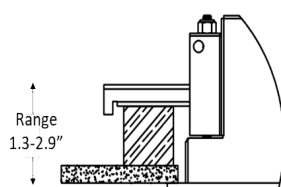
* Lumen values are based on 4000K, 80 CRI performance.

Red Only LED Performance Data			
Size	Order Code	Lumens	Watts
1x4	R1	1000	31
2x2	R1	1000	30
2x4	R1	1000	27
	R2	2000	62

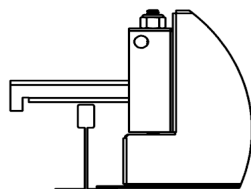
Omit CRI and CCT order codes when selecting a red or amber only fixture (without white LEDs).

Installation Details

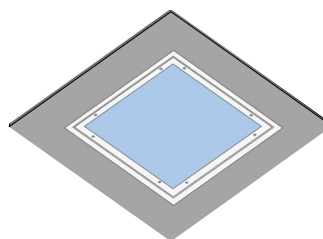
Inset Door



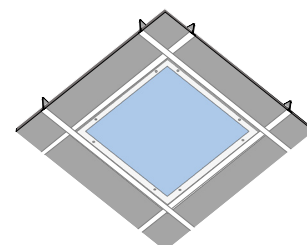
Inset Door Flanged
(Framing by others)



Inset Door in T-bar Grid Ceiling

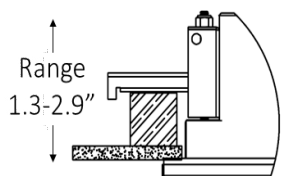


Inset Door Flanged

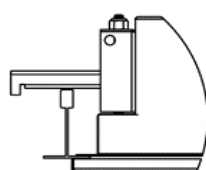


Inset Door in T-bar Grid Ceiling

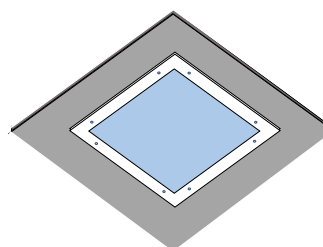
Overlapping Door



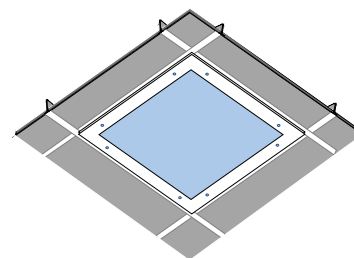
Overlapping Door Flanged
(Framing by others)



Overlapping Door in Grid Ceiling



Overlapping Door Flanged



Overlapping Door in Grid Ceiling