

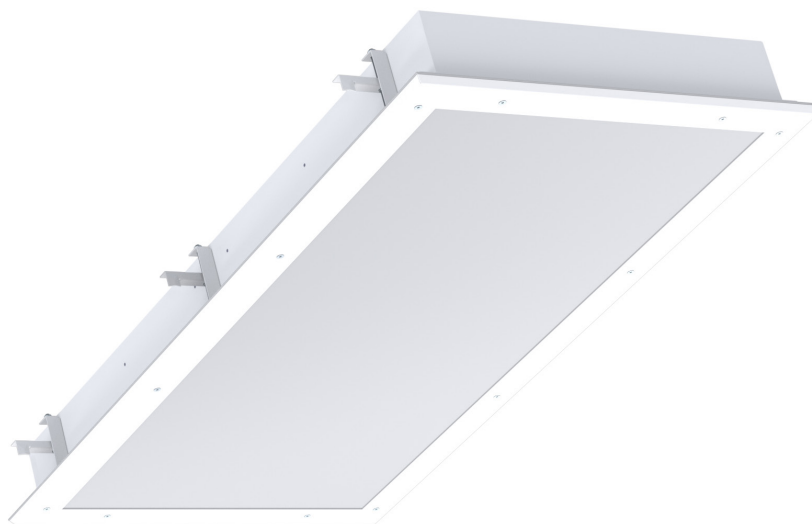
Description:

The CLR series by Amico is a specification-grade, LED recessed flanged IP65, IP66 IC-rated luminaire, 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, 1x4, and 1x2 models (1x2 model is only available for Inset Type).

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 Red 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 O Overlapping	A 18 Ga. CRS Painted (Std.) B 20 Ga. CRS Painted C 20 Ga. 304 SS Painted D 18 Ga. 316 SS Painted E 18 Ga. 304 SS Painted F 18 Ga. 316 SS Painted G 0.050" Aluminum Painted	8 80+ 9 90+	1 x 2 035L 035L 1 x 4 055L 070L 100L 055L 070L 2 x 4 100L 120L 180L 240L	UNV 120-277V 347 347V	S Diffuse Symmetric Acrylic (Std.) T 0.156" Prismatic Acrylic (#19 inv.) U 0.125" Prismatic Acrylic (#12 inv.) V 0.140" Prismatic High Impact (#12 inv.) W 0.125" Clear Polycarbonate w/ diffuse inside layer X 0.125" Acrylic Clear w/ diffuse inner layer Y Consult Factory for glass and other lens options
Size*	Hsg	CCT			
12 1x2 14 1x4 22 2x2 24 2x4	B 20 Ga. CRS Painted (Std.) C 20 Ga. 304 SS Painted D 18 Ga. 316 SS Painted G 0.050" Aluminum Painted	30 3000K 35 3500K 40 4000K 50 5000K TW Tunable White 2700K-6500K**			

* 12 is only for Inset Option

*** 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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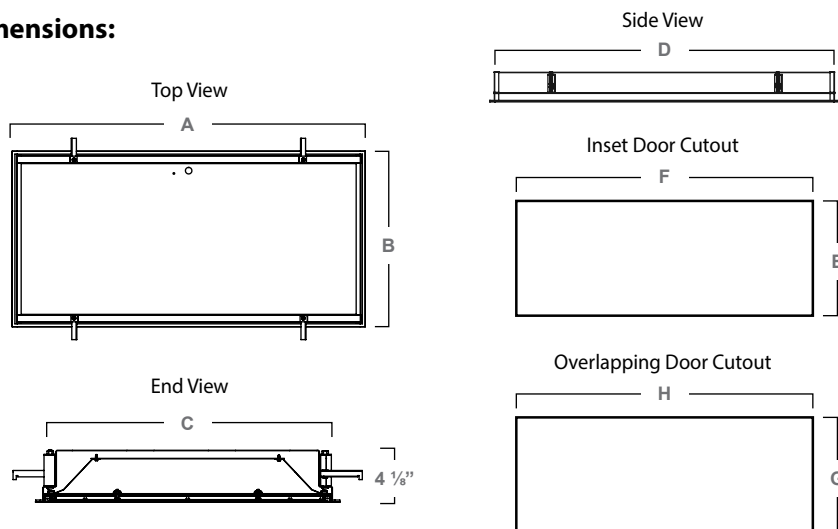
Approval and Rating Options

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 diffuser 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

Performance Data				
White LED Performance*				
Size	Nominal Lumens Order Code	Lumens (4000K)	Watts	Efficacy
1x2	35L	3490	32	109
1x4	35L	3585	32	112
	55L	5538	51	109
	70L	7064	68	104
	100L	10100	96	105
2x2	35L	3564	31	115
	55L	5571	50	111
	70L	7035	65	108
	100L	10121	93	109
2x4	55L	5517	45	123
	70L	7085	59	120
	100L	10093	80	126
	120L	12096	99	122
	180L	18103	143	127
	240L	24102	198	122

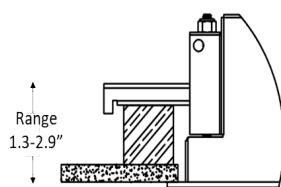
Standard White										
	80 CRI					90 CRI				
CCT	Lumen Factor	CRI	R9	Rf	Rg	Lumen Factor	CRI	R9	Rf	Rg
3000K	0.95	80	-	-	-	0.77	90	-	-	-
3500K	0.97		12	85	97	0.80		62	91	100
4000K	1.00		10	84	97	0.82		68	91	101
5000K	1.01		10	84	97	1.84		65	91	98

Tunable White										
	80 CRI					90 CRI				
CCT	Lumen Factor	CRI	R9	Rf	Rg	Lumen Factor	CRI	R9	Rf	Rg
2700K	1.00	82	7	82	98	1.00	90	60	92	100
4000K		86	29	84	100			87	93	104
6500K		82	15	81	97			76	92	101

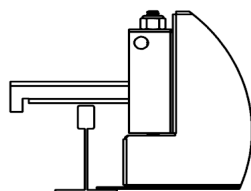
* Lumen values are based on 4000K, 80 CRI performance.

Installation Details

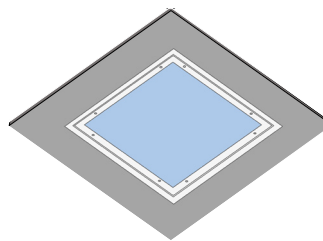
Inset Door



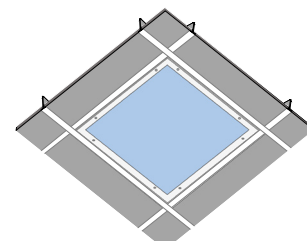
Inset Door Flanged
(Framing by others)



Inset Door in T-bar Grid Ceiling

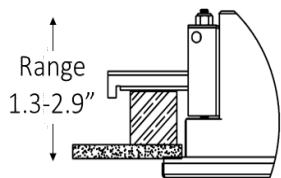


Inset Door Flanged

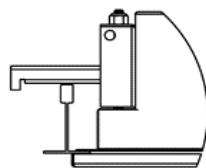


Inset Door in T-bar Grid Ceiling

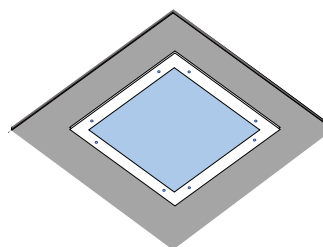
Overlapping Door



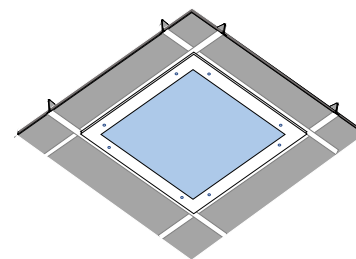
Overlapping Door Flanged
(Framing by others)



Overlapping Door in Grid Ceiling



Overlapping Door Flanged



Overlapping Door in Grid Ceiling