

CLD

Recessed Grid/Flanged
LED Clean Room



SPECIFICATIONS

DESCRIPTION

The CLD is an IP65, Wet location, IC-rated luminaire which provides a cost-effective LED clean room lighting solution. Gasketed housing and door frame create a sealed enclosure. The CLD is available in 1x2, 1x4, 2x2, and 2x4 sizes. Available options such as anti-microbial paint, 90 CRI, MILSTD 461G compliant, and 12W emergency driver. Suitable for biosafety labs rated BSL 1 and 2 (inset doorframe) and biosafety labs rated BSL 3 and 4 (overlap doorframe). Suitable for Class 1/ISO 3 Cleanrooms. For use in insulated ceilings. NSF/ANSI 2 Food Zone, Splash Zone and Non-Food Zone Applications.

DOORFRAME

Inset or Overlap door frame options with choice of Cold Roll Steel, Stainless Steel, or Aluminum. White TGIC polyester powder coat standard, with optional anti-microbial white paint. Door-frame secured to housing with stainless steel aircraft cables and counter sunk Phillips head stainless steel fasteners. Closed-cell gasket completely seals the doorframe and the housing.

ELECTRICAL SYSTEM

Electronic driver 0-10V 1% dimming standard. Long-life LED system rated for >100K hours (L70 @ 25°C). Complies with federal energy efficiency standards.

OPTICAL SYSTEM

A variety of lensing options are available to fit the needs of any application. If additional lensing options are needed, consult factory. RF grid lens required for MIL STD 461G compliance.

LISTINGS

Approved to CSA and UL standards.

UL listed for wet location.

NSF Listed.

Food Safe.

IP65 rated with inset doorframe, IP66 rated with overlap doorframe. Inset doorframe suitable for biosafety labs rated BSL 1 and 2, overlap doorframe suitable for biosafety labs rated BSL3 and 4.

Suitable for Class 1/ISO 3 Cleanrooms.

MOUNTING

Recessed grid and recessed flanged applications. Easy installation with adjustable 90° swing arm system standard. Universal mounting allows for both recessed flanged and recessed grid mounting.

HOUSING

Various housing material options are available, if options needed are not listed, consult factory. Seam-welded construction. All doors attached to the housing with stainless steel aircraft cables, and are completely sealed with closed cell gaskets. Stainless steel Philips head screws secure door frame to housing. White TGIC polyester powder coat standard. Anti-microbial paint optional.

LED

80 CRI or 90 CRI LEDs available in 2700K, 3000K, 3500K, 4000K and 5000K. Life is 100,000 hours at 70% lumen maintenance. LM79, LM80 and TM21 compliant.

WARRANTY

5 - Year Limited Warranty. Complete warranty and terms located at: www.aelnow.com/warranty

Output	Delivered Lumens	System Wattage	L70 @20C (hrs)
SL	4650	33	>100K
ML	7974	57	>100K
HL	11150	80	>100K
SM	12040	86	>100K
MM	13016	93	>100K
HM	15728	112	>100K
SH	16500	118	>100K
MH	20000	143	>100K
HH	25000	179	>100K

*Delivered Lumens shown were tested with 4000K LEDs.

*For custom lumen requirements, add desired lumens to end of part number

Approximate Color Temperature Multiplier	
5000K	1.03
4000K	1
3500K	0.97
3000K	0.94
2700K	0.91



Example: CLD24-40-MM-B20-B18INS-SY-M-1-12750

Custom Lumen Output: CLD24-40-MM-B20-B18INS-SY-M-1-12750 for 12,750 lumens.

Series		CCT		Illumination Level ¹		Housing	
CLD12	1x2	27	2700K	SL	Standard Low	B20	20 Gauge Cold Roll Steel
CLD14	1x4	30	3000K	ML	Medium Low	B18	18 Gauge Cold Roll Steel
CLD22	2x2	35	3500K	HL	High Low	SH18	18 Gauge Stainless Steel (DR)
CLD24	2x4	40	4000K	SM	Standard Medium	SHP18	18 Gauge Stainless Steel (Painted)
		50	5000K	MM	Medium Medium	SHB18	18 Gauge Stainless Steel (Brushed)
				HM	High Medium	ALH	.063" Aluminum (Painted)
				SH	Standard High		
				MH	Medium High		
				HH	High High		

¹CLD12 (1x2) only available up to ML - Medium Low (7974 lumens)

¹CLD14 (1x4) only available up to HM - High Medium (15728 lumens)

¹CLD22 (2x2) only available up to HM - High Medium (15728 lumens)

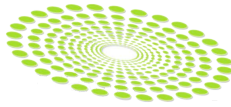
¹If higher lumens than are available on spec sheet are needed, consult factory

Door Frame		Inverted Lens		Voltage	
	Inset Doorframe	PA125	.125 Prismatic Acrylic	M	120/277V
B18INS	18 Gauge Cold Roll Steel	PA156	.156 Prismatic Acrylic		
SH18INS	18 Gauge Stainless Steel (DR)	PA187	.187 Prismatic Acrylic		
SHP18INS	18 Gauge Stainless Steel (Painted)	PP125	Prismatic Inner with .125 Clear Outer Polycarbonate		
SHB18INS	18 Gauge Stainless Steel (Brushed)	SY	Symmetric Diffused DR Acrylic		
ALHINS	.063" Aluminum (Painted)	125P	.125 Clear Polycarbonate		
	Overlap Doorframe	K19RF	KSH-19 RFI Prismatic Acrylic ²		
B18OVL	18 Gauge Cold Roll Steel				
SH18OVL	18 Gauge Stainless Steel (DR)				
SHP18OVL	18 Gauge Stainless Steel (Painted)				
SHB18OVL	18 Gauge Stainless Steel (Brushed)				
ALHOVL	.063" Aluminum (Painted)				

Other lens options available, consult factory.

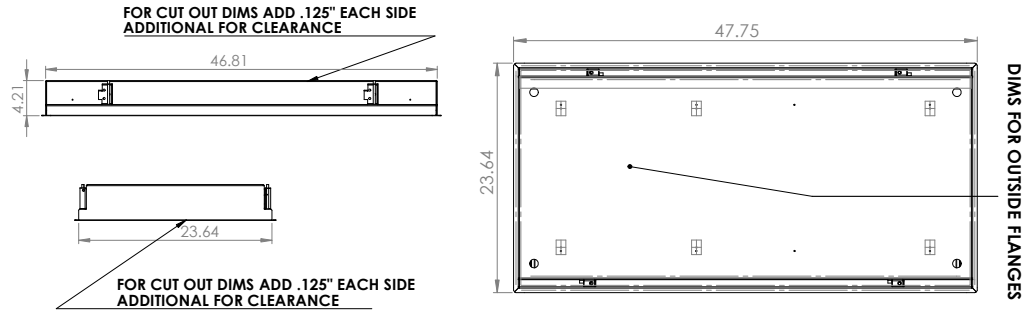
Driver Options		Circuits		Options	
BLANK	0-10V Dimming Driver (<i>included standard</i>)	1	1 Circuit	12EBL	12 Watt Emergency Driver
CD5	0-10V 5% to Off Dimming Driver	2	2 Circuits	90	90 CRI
EDN	Electronic Driver Non-Dimming			AM	Anti-Microbial White Paint (N/A on SH18 and SHB18 Doorframes)
FLDD	Fifth Light Dali, Dimming			VDO	Lutron Vive Integral Fixture Control (RF with Daylight and Occupancy Sensing)
LDE1	Lutron Hi-lume 1% EcoSystem LED driver with Soft-on, Fade-to-Black dimming technology			CPOL	Clear .125 Polycarbonate Outer Lens
LDE5	Lutron LDE5 5-Series Ecosystem 5% Dimming			MIL1	MILSTD 461G compliant, 1 circuit ²
				MIL2	MILSTD 461G compliant, 2 circuit ²
				IF	Install Frame

²K19RF lens option must be chosen for MILSTD 461G Compliance

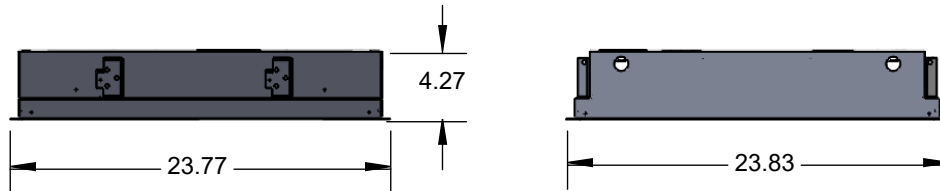


Catalog Number	
Project	
Type	

2x4



2x2



1x4



1x2

