



CATALOG #:

PROJECT:

TYPE:

# CLD

## RECESSED GRID/ FLANGED LED CLEAN ROOM



Cleanroom  
LED LUMINARIES



### PRODUCT 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](http://www.aelnow.com/warranty).

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



## ORDERING INFORMATION

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	SIZE	CCT	ILLUMINATION LEVEL	HOUSING	INSET DOOR FRAME	INVERTED LENS
CLD	CLD12 1X2	30 3000K	SL Standard Low (4,650L)	B20 20 Gauge Cold Roll Steel	B20INS 20 Gauge Cold Roll Steel	PA19 .156" Prismatic Acrylic #19
	CLD14 1X4	35 3500K	ML Medium Low (7,974L)	B18 18 Gauge Cold Roll Steel	B18INS 18 Gauge Cold Roll Steel	PA125 .125 Prismatic Acrylic
	CLD22 2X2	40 4000K	HL High Low (11,150L)	SH18 18 Gauge Stainless Steel (DR)	SH18INS 18 Gauge Stainless Steel (DR)	PA156 .156 Prismatic Acrylic
	CLD24 2X4	50 5000K	SM Standard Medium (12,040L)	SHP18 18 Gauge Stainless Steel (Painted)	SHP18INS 18 Gauge Stainless Steel (Painted)	PA187 .187 Prismatic Acrylic
			MM Medium Medium (13,016L)	SHB18 18 Gauge Stainless Steel (Brushed)	SHB18INS 18 Gauge Stainless Steel (Brushed)	PP125 Prismatic Inner with .125 Clear Outer Polycarbonate
			HM High Medium (15,728L)	ALH .063" Aluminum (Painted)	ALHINS .063" Aluminum (Painted)	SY Symmetric Diffused DR Acrylic
			SH Standard High (16,500L)			125P .125 Clear Polycarbonate
			MH Medium High (20,000L)			K19RF KSH-19 RFI Prismatic Acrylic2
			HH High High (25,000L)			
					<b>OVERLAP DOOR FRAME</b>	
					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)	

VOLTAGE	DRIVER OPTIONS	CIRCUITS	OPTIONS
M Multi-Volt (120-277VAC)	<ul style="list-style-type: none"> <li>BLANK 0-10V Dimming Driver (included standard)</li> <li>CD5 0-10V 5% to Off Dimming Driver</li> <li>EDN Electronic Driver Non-Dimming</li> <li>FLDD Fifth Light Dali, Dimming</li> <li>LDE1 Lutron Hi-lume 1% EcoSystem LED driver with Soft-on, Fade-to-Black dimming technology</li> <li>LDE5 Lutron LDE5 5-Series Ecosystem 5% Dimming</li> </ul>	<ul style="list-style-type: none"> <li>1 1 Circuit</li> <li>2 2 Circuits</li> </ul>	<ul style="list-style-type: none"> <li>12EBL 12 Watt Emergency Driver</li> <li>90 90 CRI</li> <li>AM Anti-Microbial White Paint (N/A on SH18 and SHB18 Doorframes)</li> <li>VDO Lutron Vive Integral Fixture Control (RF with Daylight and Occupancy Sensing)</li> <li>CPOL Clear .125 Polycarbonate Outer Lens</li> <li>MIL1 MILSTD 461G compliant, 1 circuit<sup>2</sup></li> <li>MIL2 MILSTD 461G compliant, 2 circuit<sup>2</sup> Install Frame</li> <li>SJ6 6FT 5 WIRE SJ POWER CORD</li> </ul>

<sup>1</sup>CLD12 (1x2) only available up to ML - Medium Low (7974 lumens)

<sup>1</sup>CLD14 (1x4) only available up to HM - High Medium (15728 lumens)

<sup>1</sup>CLD22 (2x2) only available up to HM - High Medium (15728 lumens) 1f higher lumens than are available on spec sheet are needed, consult factory

<sup>3</sup>K19RF lens option must be chosen for MILSTD 461G Compliance

## ENERGY AND PERFORMANCE DATA

INPUT VOLTAGE:	120/277VAC
SYSTEM INPUT POWER:	33 - 179 WATTS*
DELIVERED LUMEN OUTPUT:	4650 - 25000 LUMENS
STANDARD DIMMING CONTROL:	0-10V
CCT:	3000, 3500, 4000, 5000 KELVIN
CRI:	82 (MINIMUM)
LIFE TIME RATING:	>100,000 HRS @ L70
INPUT FREQUENCY:	50/60 HZ
POWER FACTOR:	>0.9
OPERATING TEMP:	-30° TO 50° C

### APPROXIMATE COLOR TEMPERATURE MULTIPLIER

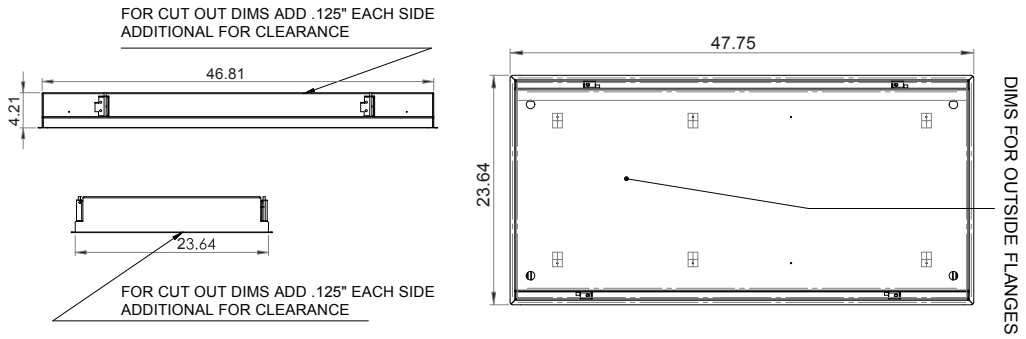
5000K	X	1.03
4000K	X	1
3500K	X	.97
3000K	X	.94
2700K	X	.91

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

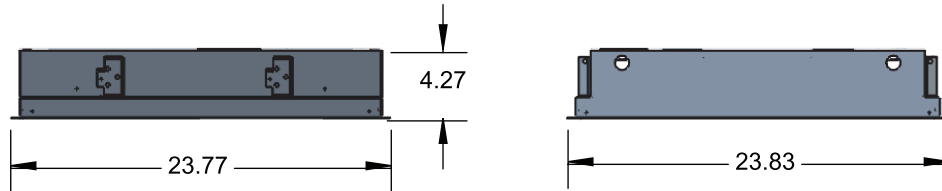
\*ACTUAL WATTAGE MAY DIFFER BY ±5% WHILE OPERATING 120/277V ±10%

## CLD

RECESSED GRID/  
FLANGED  
LED CLEAN ROOM



### 2x2



### 1x4



### 1x2

