

CLD

Recessed LED Clean Room



STANDARD



OPTIONAL



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

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, and wet location. MILSTD 461G available, NSF listed, Red and Green LED option available. Suitable for biosafety labs rated BSL 1 and 2. Suitable for Class 1/ISO 3 Cleanrooms. For use in insulated ceilings. NSF/ANSI 2 Food Zone, Splash Zone and Non-Food Zone Applications.

CONSTRUCTION

Cold Roll Steel, Stainless Steel, or Aluminum options. White TGIC polyester powder coat standard, with optional Anti-Microbial Paint. Door-frame secured to housing with stainless steel aircraft cables and captive flush mounted Phillips head stainless steel fasteners. Closed-cell gasket completely seals the doorframe and the housing. Tamper-proof fasteners available with option TPS.

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.

LISTINGS

Approved to CSA and UL standards.

UL listed for wet location.

NSF Listed.

Food Safe.

IP65 rating

Suitable for biosafety labs rated BSL 1 and 2.

Suitable for Class 1/ISO 3 Cleanrooms.

MOUNTING

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 painted to match door finish to 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. Red (630nm) and Green (520nm) LEDs also available. LM79, LM80 and TM21 compliant.

WARRANTY

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

DOORFRAME

Door frame construction available in various materials, if options needed are not listed, consult factory. One-piece closed cell gasket seals doorframe to housing.



Ordering:

*SAMPLE NUMBER: CLD24-30-HM-B-INS-AS-M-EDN-12EBL (White only)
 *SAMPLE NUMBER: CLD24-30G52-HM-B-INS-AS-M-EDN-12EBL (White/Green)
 *SAMPLE NUMBER: CLD24-R63-HM-B-INS-AS-M-EDN-12EBL (Red only)

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

Series	CCT	Illumination Level*	Housing
CLD12 1x2	27 2700K	SL Standard Low	B14 14 Gauge Cold Roll Steel
CLD14 1x4	30 3000K	ML Medium Low	B16 16 Gauge Cold Roll Steel
CLD22 2x2	35 3500K	HL High Low	B18 18 Gauge Cold Roll Steel
CLD24 2x4	40 4000K	SM Standard Medium	B20 20 Gauge Cold Roll Steel
	50 5000K	MM Medium Medium	SH14 14 Gauge Stainless Steel
	G52 Green LED 520 nm (defaults to the 2 outboard rows)	HM High Medium	SH16 16 Gauge Stainless Steel
	R63 Red LED 630 nm (defaults to the 2 outboard rows)	SH Standard High	SH18 18 Gauge Stainless Steel
			MH Medium High
		HH High High	ALH .063" Aluminum

***NOTES:**

CLD12 (1x2) only available up to HL - High Low
 CLD14 (1x4) only available up to HM - High Medium
 CLD22 (2x2) only available up to HM - High Medium

Door Type	Lens
B14 14 Gauge Cold Roll Steel	A125 .125 Clear Acrylic
B16 16 Gauge Cold Roll Steel	125P .125 Clear Polycarbonate
B18 18 Gauge Cold Roll Steel	156P .156 Clear Polycarbonate
SH14 14 Gauge Stainless Steel	187P .187 Clear Polycarbonate
SH16 16 Gauge Stainless Steel	250P .250 Clear Polycarbonate
SH18 18 Gauge Stainless Steel	PA125 .125 Prismatic Acrylic
SHB18 18 Gauge Stainless Steel (brushed)	PA156 .156 Prismatic Acrylic
ALH .063" Aluminum	PP125 .125 Prismatic Polycarbonate
	PP156 .156 Prismatic Polycarbonate
	PP187 .187 Prismatic Polycarbonate
	PHA125 .125 Prismatic High Impact Acrylic
	PHA140 .140 Prismatic High Impact Acrylic
	CTG187 .187 Clear Tempered Glass
	CTG250 .250 Clear Tempered Glass
	CTG/PA Clear Tempered Glass with Prismatic Acrylic Overlay
	WTA White Translucent Acrylic .080
	WTP Lens White Translucent Polycarbonate
	SY Symmetric Diffused DR Acrylic

Voltage	Driver Options	Circuits	Options
M 120/277V	BLANK 0-10V Dimming Driver (included standard)	1 1 Circuits	12EBL 1200 Lumen Emergency Ballast
	CD5 0-10V 5% to Off Dimming Driver	2 2 Circuits	90 90 CRI
	EDN Electronic Driver Non-Dimming		AM Anti Microbial White Paint
	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		XX Decorative outer lens
	LDE5 Lutron LDE5 5-Series Ecosystem 5% Dimming		MIL MIL STD 461G Compliant
			TPS Tamper-Proof Screws

*MIL STD 461G Includes an RFI shielded outer lens standard

Decorative Lens Options	
A	Decorative Lens A
B	Decorative Lens B
C	Decorative Lens C
D	Decorative Lens D

Decorative Panel Options:



A



B



C



D

Dimensions:

