MADE IN THE USA

CLD RECESSED GRID/ FLANGED LED CLEANROOM

CLEANROOM LED LUMINAIRES

NEW ▶ *Advantage Tune* Available*

CASAMBI   UL

The **CLD** is an IP65, Wet location, IC-rated cleanroom luminaire which provides a cost-effective LED 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 14W 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. Also available in our exclusive Advantage-Tune Tunable White illumination package options.

HOUSING: Various housing material options are available. If you do not see an option listed, please consult factory. **NEW:** 304 and 316 stainless steel are both available (consult factory for details). Seam-welded construction. All doors attached to the housing with stainless steel aircraft safety cables, and are completely sealed with closed cell gaskets. White Philips head screws secure door frame to housing (Optional stainless steel screws available). White TGIC polyester powder coat standard. Anti-microbial paint optional.

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.

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**.

Ordering Information on Next Page ▶

*Advantage Tune is a Tunable White illumination package consisting of a Casambi app based control or a prewired 2 channel 0-10v circuit. Please consult factory for additional information.

ORDERING INFORMATION:
Example: CLD-24-40-14L-B20-B18INS-SY-M-1-14EBL

SERIES	SIZE	CCT	ILLUMINATION LEVEL	HOUSING	DOOR FRAME	DOOR FRAME TYPE

SERIES

CLD

SIZE

12	1X2
14	1X4
22	2X2
24	2X4

CCT

30	3000K
35	3500K
40	4000K
50	5000K
ATTW	Tunable White

ILLUMINATION LEVEL

4L	4000 Lumens
7L	7000 Lumens
11L	11000 Lumens
12L	12000 Lumens
13L	13000 Lumens
15L	15000 Lumens
16L	16000 Lumens
20L	20000 Lumens
25L	25000 Lumens
XX	Custom Lumens

HOUSING

B20	20 Gauge Cold Roll Steel
B18	18 Gauge Cold Roll Steel
SH18	18 Gauge Stainless Steel (Polished 304)
SH186	18 Gauge Stainless Steel (Polished 316)
SHP18	18 Gauge Stainless Steel (Painted 304)
SHP186	18 Gauge Stainless Steel (Painted 316)
SHB18	18 Gauge Stainless Steel (Brushed 304)
SHB186	18 Gauge Stainless Steel (Brushed 316)
ALH	.063" Aluminum (Painted)

DOOR FRAME

B18	18 Gauge Cold Roll Steel
SH18	18 Gauge Stainless Steel (Polished 304)
SH186	18 Gauge Stainless Steel (Polished 316)
SHP18	18 Gauge Stainless Steel (Painted 304)
SHP186	18 Gauge Stainless Steel (Painted 316)
SHB184	18 Gauge Stainless Steel (Brushed 304)
SH18	18 Gauge Stainless Steel (Brushed)
ALH	.063" Aluminum (Painted)

DOOR FRAME TYPE

| INS | Inset Door |
| OVL | Overlap Door |

LENS OPTIONS	VOLTAGE	DRIVER OPTIONS	CIRCUITS	OPTIONS

LENS OPTIONS

PA19	.156" Prismatic Acrylic #19
PA125	.125 Prismatic Acrylic (inverted)
PA156	.156 Prismatic Acrylic (inverted)
PA187	.187 Prismatic Acrylic (inverted)
PP125	Prismatic Inner with .125 Clear Outer Polycarbonate
SY	Symmetric Diffused DR Acrylic
125P	.125 Clear Polycarbonate
250P	.250 Clear Polycarbonate
K19RF	KSH-19 RFI Prismatic Acrylic (inverted)
CPOL	Clear .125 Polycarbonate Outer Lens
CPOL250	Clear .250 Polycarbonate Outer Lens

VOLTAGE

| M | Multi-Volt (120-277VAC) |
| HV | 347-480VAC |

DRIVER OPTIONS

BLANK	0-10V Dimming Driver (included standard)
CD5	0-10V 5% to Off Dimming Driver
EDN	Electronic Driver Non-Dimming
LDE1	Lutron Hi-lume 1% EcoSystem LED driver with Soft-on, Fade-to-Black dimming technology
DALI	1% Dimming Driver
2TW1	2 Channel 0-10v Tunable White 1% Dimming Driver*
2TWCS	2 Channel 0-10v Tunable White Dimming Driver Compatible with Casambi**

CIRCUITS

| 1 | 1 Circuit |
| 2 | 2 Circuits |

OPTIONS

14EBL	14 Watt Emergency Driver
90	90 CRI
AM	Anti-Microbial White Paint (N/A on SH18 and SHB18 Doorframes)
VDO	Lutron Vive Integral Fixture Control (RF with Daylight and Occupancy Sensing)
MIL1	MILSTD 461G compliant, 1 circuit[1]
MIL2	MILSTD 461G compliant, 2 circuit[1] Install Frame

[1] K19RF lens option must be chosen for MILSTD 461G Compliance. *Prewired with Tunable White LED boards and (2) 0-10v drivers installed
**Prewired with Tunable White LED boards and Casambi ready fixture control

Other options and configurations are available. Consult factory for details.

Dimensions on Next Page ▶

ENERGY AND PERFORMANCE DATA

INPUT VOLTAGE:	120/277VAC
SYSTEM INPUT POWER:	27.8 - 173.4 WATTS*
DELIVERED LUMEN OUTPUT:	4000 - 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

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

APPROXIMATE COLOR TEMPERATURE MULTIPLIER

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

OUTPUT	DELIVERED LUMENS	WATTS	L70 @20C (HRS)
4L	4000 LUMENS	27.8	>100K
7L	7000 LUMENS	48.5	>100K
11L	11000 LUMENS	79.3	>100K
12L	12000 LUMENS	83.2	>100K
13L	13000 LUMENS	90.1	>100K
15L	15000 LUMENS	104	>100K
16L	16000 LUMENS	110.1	>100K
20L	20000 LUMENS	138.7	>100K
25L	25000 LUMENS	173.4	>100K

⚠️ **ROUGH IN SIZE LISTED BELOW.**
Please pay careful attention to these dimensions.

DIMENSIONS

1x4
ROUGH IN SIZE TO BE 46 11/16" X 10 5/8"

1x2
ROUGH IN SIZE TO BE 22 11/16" X 10 5/8"

2x2
ROUGH IN SIZE TO BE 22 5/8" X 22 5/8"

2x4
ROUGH IN SIZE TO BE 46 5/8" X 22 11/16