Advantage Environmental Lighting

Cleanroom
LED LUMINARIES

Catalog Number	
Project	
Type	

CLE Surface Mount LED Clean Room

Output	Delivered Lumens	System Wattage	L70 @45°C (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

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

DESCRIPTION

The CLE is a surface mount IC-rated luminaire that provides a cost-effective LED clean room lighting solution. Gasketed housing and door frame create a sealed enclosure. The CLE is available in 1x4, 2x2, and 2x4 sizes. Available options such as anti-microbial paint, and wet location. MILSTD 461G available, NSF listed. Inset doorframe suitable for biosafety labs rated BSL 1 and 2, overlap doorframe suitable for biosafety labs rated BSL 3 and 4. Suitable for Class 1/ISO 3 Cleanrooms. NSF/ANSI 2 Food Zone, Splash Zone and Non-Food Zone Applications.

HOUSING

Housing constructed in choice of cold roll steel, stainless steel, or marine grade aluminum. Seam-welded construction. All doors attached to the housing with two stainless steel aircraft cables. Stainless steel Philips head screws secure door frame to housing. White TGIC polyester powder coat – 5-stage pre-treatment. Salt spray test: 1,000 hours; Reflectance: 92%. Anti-microbial paint optional.

DOORFRAME

Inset or overlap doorframe in choice of cold roll steel, stainless steel, or marine grade aluminum. White TGIC polyester powder coat – 5-stage pre-treatment. Salt spray test: 1,000 hours; Reflectance: 92%. Doorframe secured to housing with stainless steel aircraft cables and Phillips head stainless steel fasteners.

ELECTRICAL SYSTEM

Electronic driver 0-10V 1% dimming standard. Long-life LED system rated for >100K hours (L70 @ 45°C). Complies with federal energy efficiency standards.

OPTICAL SYSTEM

Various lens options available, refer to ordering information. RFI 3/8" square metal grid, grounded to the housing.

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

Surface Mount luminaire.

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, consult factory.

WARRANTY

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

DOORFRAME GASKET

One-piece closed cell silicone gasket seals doorframe to housing.

Advantage. Environmental Lighting

Catalog Number	
Project	
Type	

Example: CLE4-40-ML-B18-B18-INS-PA125-M-1
Custom Lumen Output: CLE4-40-ML-B18-B18-INS-PA125-M-1-6000 for 6,000 lumens.

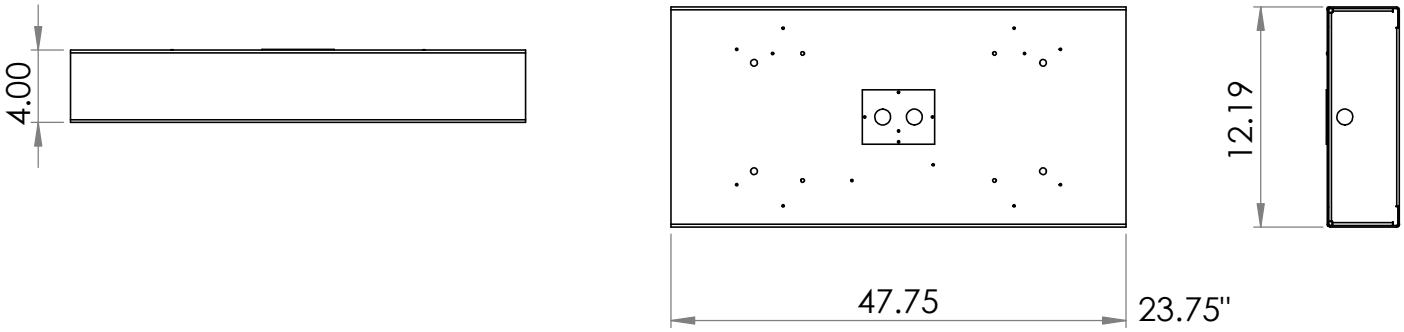
Series		CCT		Illumination Level		Housing Material	
CLE1	1x4	**27**	2700K	**SL**	Standard Low	**B20**	20 Gauge Cold Roll Steel
CLE2	2x2	**30**	3000K	**ML**	Medium Low	**B18**	18 Gauge Cold Roll Steel
CLE4	2x4	**40**	4000K	**HL**	High Low	**SH18**	18 Gauge Stainless Steel (DR)
		50	5000K	**SM**	Standard Medium	**SHP18**	18 Gauge Stainless Steel (Painted)
				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		

Door Material		Inverted Lens		Voltage	
INSET DOORFRAME		**PA125**	.125 Prismatic Acrylic	**M**	Multi-Volt 120/277V
B18INS	18 Gauge Cold Roll Steel	**PA156**	.156 Prismatic Acrylic		
SH18INS	18 Gauge Stainless Steel (DR)	**S**	Frost Glaze Satin Lens		
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		
B20OVL	20 Gauge Cold Roll Steel				
B18OVL	18 Gauge Cold Roll Steel		Other lens options available, consult factory.		
SH18OVL	18 Gauge Stainless Steel (DR)				
SHP18OVL	18 Gauge Stainless Steel (Painted)				
SHB18OVL	18 Gauge Stainless Steel (Brushed)				
ALHOVL	.063" Aluminum (Painted)				

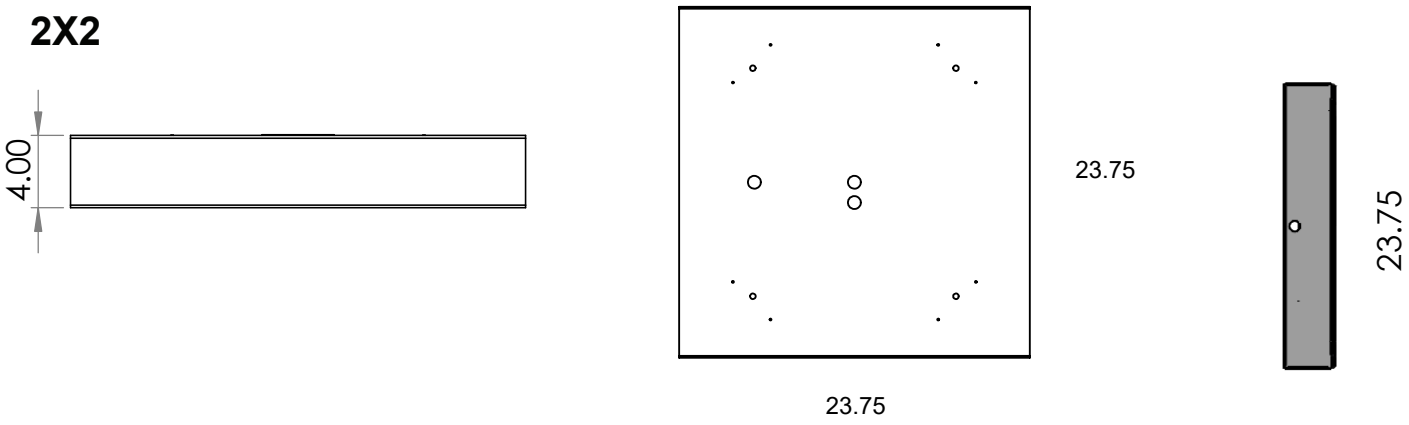
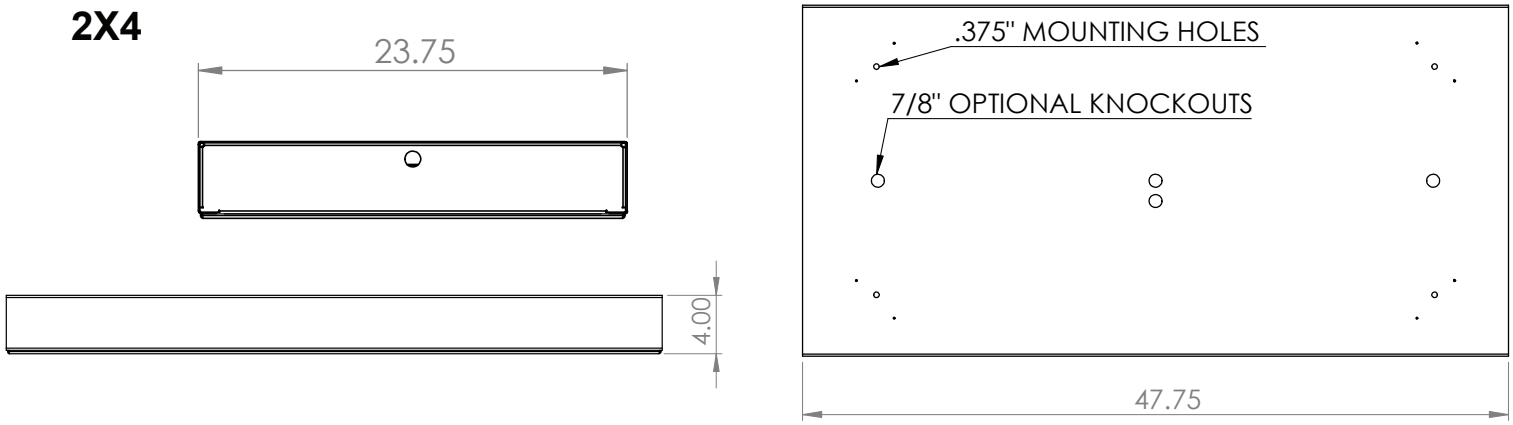
Driver Options		Circuits		Options	
BLANK	0-10V 1% Dimming Driver (*included standard*)	**1**	1 Circuits	**12EBL**	1200 Lumen Emergency Ballast
CD5	0-10V 5% to Off Dimming Driver	**2**	2 Circuits	**MIL**	MILSTD 461G Compliant
EDN	Electronic Driver Non-Dimming			**CHP**	Continuous Piano Hinge
DALI	DALI Dimming Driver, 1%			**90**	90 CRI
LDE1	Lutron Hi-lume 1% EcoSystem LED driver with Soft-on, Fade-to-Black dimming technology			**AM**	Anti-Microbial Paint
LDE5	Lutron LDE5 5-Series Ecosystem 5% Dimming			**VDO**	Lutron Vive Integral Fixture control (RF with Daylight and Occupancy Sensing)
				FCJS0	Lutron Vive Attached Fixture Control (RF Only for 0-10V Drivers)
				TS	Thumb Screw

DIMENSIONS

1X4



2X2



2X4