ADVANTAGE
ENVIRONMENTAL LIGHTING

MADE IN THE USA

CLU
RECESSED FLANGED AMBER & WHITE LED CLEAN ROOM

CLEANROOM
LED LUMINAIRES

UL

The CLU is a narrow spectrum recessed flange LED luminaire. Available with amber, white, or amber and white LEDs. With a narrow spectrum 570nm amber LED circuit, the CLU is able to provide high-purity light without UV for various applications. The high-CRI white LED circuit provides accurate color rendition at a high output.

DOORFRAME: Cold Roll Steel, Stainless Steel, or Aluminum options. One piece inset door frame with welded corners. 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.

ELECTRICAL SYSTEM: Electronic, standard 0-10V dimming.

OPTICAL SYSTEM: A variety of lensing options are available to fit the needs of any application.

LISTINGS: Approved to CSA and UL standards. NSF Listed. Food Safe. Wet Location (optional).

MOUNTING: Recessed mounting into grid and flange types. Adjustable swing out mounting brackets are included for flange application. Universal installation for grid or drywall ceiling applications.

HOUSING: Die-formed heavy gauge steel. Seam-welded construction. Stainless steel or aluminum options. All doors attached to the housing with two 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. Antimicrobial paint optional.

LED: 570nm amber replaceable (115 nm FWHM bandwidth) LED arrays produce less than 0.019 watts of light below 480nm, and no ultraviolet rays. Separately circuited white LED arrays are available in in 3500K, 4000K and 5000K color temperatures with a minimum of 82 CRI. White circuit and amber circuit can be independently powered and dimmed.

DOORFRAME GASKET: One-piece closed cell gasket seals doorframe to housing.

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

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ORDERING INFORMATION
Example: CLU-14-35-45AW-B18-B18-IN-156P-M

SERIES	SIZE	CCT	LED OPTIONS		HOUSING		DOOR FRAME		DOOR FRAME TYPE	
CLU	14 1X4	35 3500K	**1X4**		B18 18 Gauge Cold Roll Steel		B18 18 Gauge Cold Roll Steel		INS Inset Doorframe	
	22 2X2	40 4000K	45AW	45W Amber & 45W White	B20 20 Gauge Cold Roll Steel		B22 22 Gauge Cold Roll Steel		OVL Overlap Doorframe	
	24 2X4	50 5000K	45A	45W Amber	B22 22 Gauge Cold Roll Steel		SH18 18 Gauge Stainless Steel			
			90A	90W Amber	SH18 18 Gauge Stainless Steel		SH20 20 Gauge Stainless Steel			
			2x2		SH20 20 Gauge Stainless Steel		ALH .063" Aluminum			
			45AWD	45W Amber & 45W White (dual-row)	ALH .063" Aluminum					
			45AD	45W Amber (dual-row)						
			90A	90W Amber						
			2x4							
			45AWD	45W Amber & 45W White (dual-row)						
			45A67WD	45W Amber & 67W White (dual-row)						
			45A90WD	45W Amber & 90W White (dual-row)						
			90AW	90W Amber & 90W White						
			45AD	45W Amber (dual-row)						
			90A	90W Amber						
			135A	135W Amber						

LENS OPTIONS				DRIVER OPTIONS		VOLTAGE		CIRCUITS		OPTIONS	
A125	.125 Clear Acrylic	PP187	.187 Prismatic Polycarbonate (inverted)	BLANK	0-10V Dimming Driver (included standard)	M Multi-Volt (120-277VAC)		1 1 Circuits		14EBL	14 Watt Emergency Ballast
125P	.125 Clear Polycarbonate	CTG187	.187 Clear Tempered Glass	CD5	0-10V 5% to Off Dimming Driver	HV 347-480VAC		2 2 Circuits		AM	Anti-Microbial White Paint
156P	.156 Clear Polycarbonate	CTG250	.250 Clear Tempered Glass	EDN	Electronic Driver Non-Dimming					90	90 CRI
187P	.187 Clear Polycarbonate	CTG/PA	Clear Tempered Glass with Prismatic Acrylic Overlay (inverted)	LDE1	Lutron Hi-lume 1% EcoSystem LED driver with Soft-on, Fade-to-Black dimming technology					CPOL	Clear .125 Polycarbonate Outer Lens
250P	.250 Clear Polycarbonate	WTP	.080 White Translucent Acrylic							WL	Wet Location
PA125	.125 Prismatic Acrylic (inverted)	WTP	White Translucent Polycarbonate	DALI	1% Dimming Driver						
PA156	156 Prismatic Acrylic (inverted)	SY	Symmetric Diffused DR Acrylic								
PP125	.125 Prismatic Polycarbonate (inverted)										
PP156	.156 Prismatic Polycarbonate (inverted)										

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

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LED INFORMATION

OUTPUT	5L	7L	10L	14L
LUMENS/FT*	500	700	1000	1400
SYSTEM WATTAGE/FT	3.125W	4.375W	6.25W	8.75W
EFFICACY (LM/W)	160	160	160	160
CRI >82 >82 >82 >82				
DIMMING	0-10V	0-10V	0-10V	0-10V
COLOR CONSISTENCY	>3 SDCM	>3 SDCM	>3 SDCM	>3 SDCM
RATED LIFE (L70)	>100,000 HRS	>100,000 HRS	>100,000 HRS	>100,000 HRS

* Lumen output was calculated with 4000K LEDs.
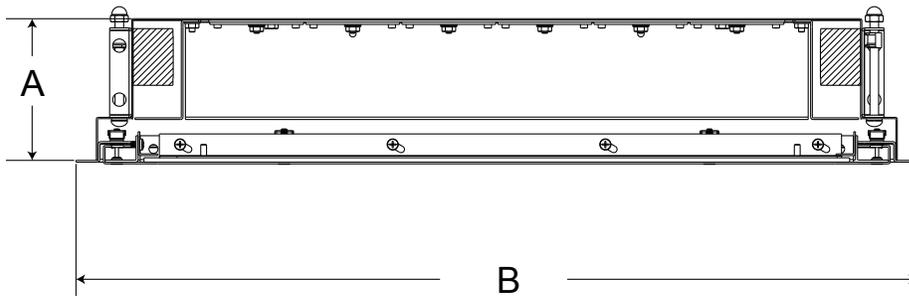
LUMEN ADJUSTMENT FACTORS 80 CRI

CCT	2700K	3000K	3500K	4000K	5000K
ADJUSTMENT	93.5%	95.2%	96.8%	100.0%	103.0%

LUMEN ADJUSTMENT FACTORS 90 CRI

CCT	2700K	3000K	3500K	4000K	5000K
ADJUSTMENT	77.5%	79.2%	80.8%	85.1%	87.3%

DIMENSIONS

CROSS SECTION

A

B

GASKET PROFILE

Fixture Housing

Lens Retention Bracket

Lens

Inset Doorframe

Door Gasket
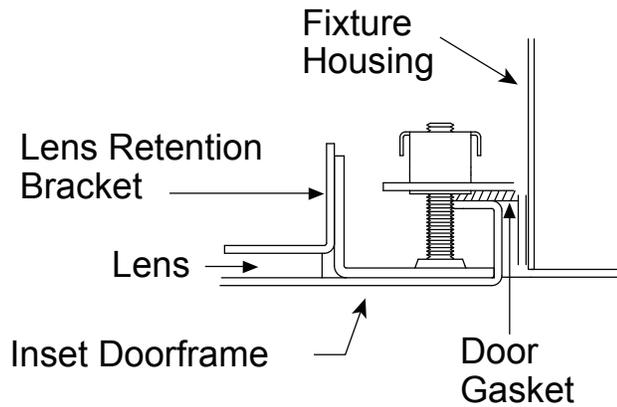
DIMENSIONAL DATA (IN INCHES)		
	A	B
1×4	4.20	11.75
2×2	4.20	23.75
2×4	4.20	23.75