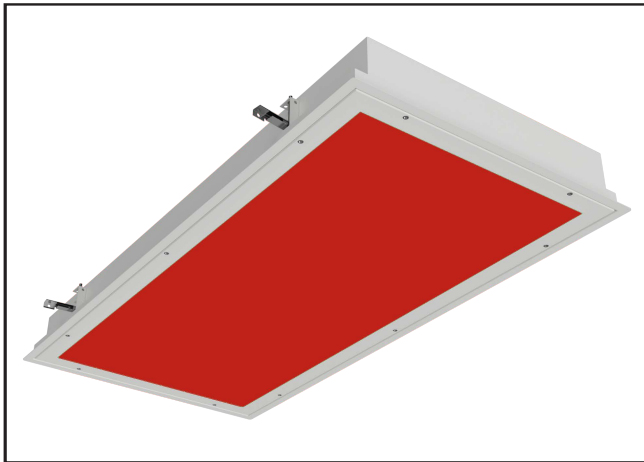


CLDFR

Recessed Flanged LED Clean Room
Narrow-Spectrum Vivarium



Output	Lumens	Wattage	L70 @25°C (hrs)
40W White	5772	40	>100K
50W White	7215	50	>100K
70W White	10000	70	>100K
90W White	12850	90	>100K
135W White	19300	135	>100K
25W Red	1020	25	>50K
50W Red	2400	50	>50K

* Delivered white 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

SPECIFICATIONS

DESCRIPTION

The CLDFR is an IP65, Wet location, IC-rated luminaire featuring a combination of 630nm red and white LEDs for vivarium applications. Gasketed housing and door frame create a sealed enclosure. The CLDF 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 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 driver 0-10V 1% dimming standard. Long-life LED system, white LEDs rated for >100K hours, 630nm red LEDs rated for >50K hours. 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 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 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 for white LEDs, and 50,000 hours at 70% lumen maintenance for 630nm red LEDs. LM79, LM80 and TM21 compliant.

WARRANTY

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



Example: CLDFR24-40-25R70W-B20-B18-PA125-M

Series	White CCT	Illumination Level	Housing
CLDFR14 1x4	BLANK Red Only	25R40W 25W Red/40W White LED	B20 20 Gauge Cold Roll Steel
CLDFR22 2x2	27 2700K	25R50W 25W Red/50W White LED	B18 18 Gauge Cold Roll Steel
CLDFR24 2x4	30 3000K	25R70W 25W Red/70W White LED	SH18 18 Gauge Stainless Steel (DR)
	35 3500K	25R90W 25W Red/90W White LED	SHP18 18 Gauge Stainless Steel (Painted)
	40 4000K	25R135W 25W Red/135W White LED	SHB18 18 Gauge Stainless Steel (Brushed)
	50 5000K	50R50W 50W Red/50W White LED	ALH .063" Aluminum
			50R70W 50W Red/70W White LED
		50R90W 50W Red/90W White LED	
		50R135W 50W Red/135W White LED	
		25R 25W Red LED	
		50R 50W Red LED	

Door Frame	Inverted Lens	Voltage
Inset Doorframe	PA125 .125 Prismatic Acrylic	M 120/277V
B18INS 18 Gauge Cold Roll Steel	PA156 .156 Prismatic Acrylic	
SH18INS 18 Gauge Stainless Steel (DR)	PA187 .187 Prismatic Acrylic	
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 ²	
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)		

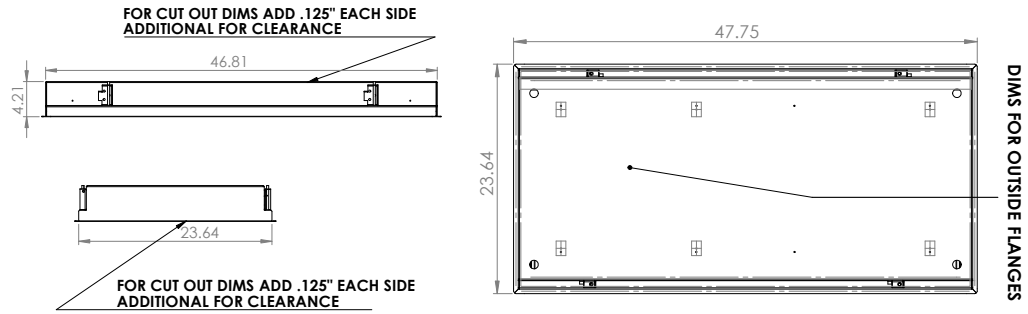
Driver Options	Circuits	Options
BLANK 0-10V Dimming Driver (<i>included standard</i>)	1 1 Circuit 2 2 Circuits	12EBL 12 Watt Emergency Driver
CD5 0-10V 5% to Off Dimming Driver		90 90 CRI
EDN Electronic Driver Non-Dimming		AM Anti-Microbial White Paint
DALI Fifth Light Dali, Dimming		VDO Lutron Vive 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		CPOL Clear .125 Polycarbonate Outer Lens
LDE5 Lutron LDE5 5-Series Ecosystem 5% Dimming		MIL1 MILSTD 461G compliant, 1 circuit ² MILSTD
		MIL2 461G compliant, 2 circuit ²
		IF Install Frame

²K19RF lens option must be chosen for MILSTD 461G Compliance

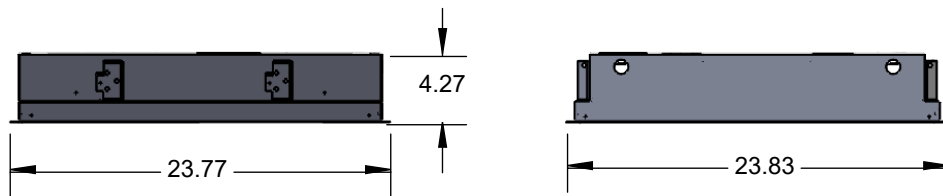


Catalog Number	
Project	
Type	

2x4



2x2



1x4



1x2

