Advantage. Environmental Lighting

Cleanroom LED LUMINAIRES

CLDWG

Recessed LED Clean Room Top Access for Walkable Grids

Output	Delivered Lumens	System Wattage	L70 @45C (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

*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 CLDWG is an top access clean room fixture engineered for Gordon WG-38 Walkable T-Grid systems. Designed to withstand 600lbs to reduce the hazard of foot traffic. This gasketed and sealed IP65 rated fixture is suitable for Class 1/ISO 3 and higher clean rooms. Available options including anti-microbial white finish, 90 CRI LEDs, MILSTD 461G compliant, and 12W emergency driver. 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

20 gauge gasketed and sealed, cold roll steel housing. 16 Gauge top-access gasketed and sealed plate allows access to the LED modules and LED drivers while maintaining the IP65 rating and integrity of the cleanroom environment. 18 gauge cold roll steel doorframe is secured to housing with captive flush mounted Phillips head stainless steel fasteners and stainless steel aircraft cables. White TGIC polyester powder coat standard, with optional anti-microbial white paint. Closed-cell gasket completely seals the doorframe, housing, and top access panel.

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.
ETL 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 into Gordon WG-38 Walkable T-Grid ceiling systems.

LED

80 CRI or 90 CRI LEDs available in 3000K, 3500K, 4000K and 5000K. LED 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

CATALOG NUMBER
PROJECT
TYPE

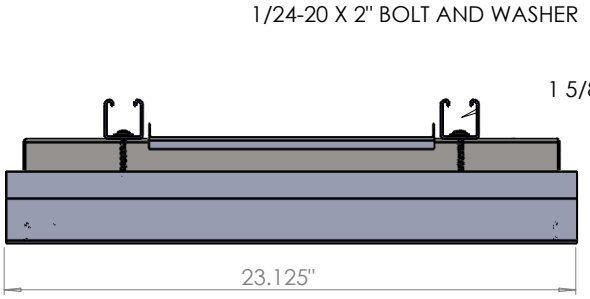
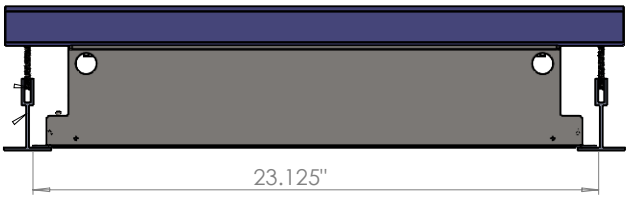
ORDERING OPTIONS

Example: CLDWG22-40-SM-B20-B18-SY-M-1
Custom Lumen Output: CLDWG22-40-SM-B20-B18-SY-M-1-11500 for 11,500 lumens.

Series		CCT		Illumination Level		Housing	
CLDWG22	2x2	**27**	2700K	**SL**	Standard Low	**B20**	20 Gauge Cold Roll Steel
		30	3000K	**ML**	Medium Low		
		35	3500K	**HL**	High Low		
		40	4000K	**SM**	Standard Medium		
		50	5000K	**MM**	Medium Medium		
				HM	High Medium		

Door Frame		Inverted Lens		Voltage	
B18	18 Gauge Cold Roll Steel	**PA125**	.125 Prismatic Acrylic	**M**	120/277V
SH18	18 Gauge Stainless Steel	**PA156**	.156 Prismatic Acrylic		
SHB18	18 Gauge Stainless Steel (Brushed)	**PA187**	.187 Prismatic Acrylic		
		PP125	.125 Prismatic Polycarbonate		
		PP156	.156 Prismatic Polycarbonate		
		PP187	.187 Prismatic Polycarbonate		
		SY	Symmetric Diffused Frosted DR Acrylic		
		125P	.125 Clear Polycarbonate KSH-19 RFI		
		K19RF	Prismatic Acrylic[2]		
			Other lens options available, consult factory.		

Driver Options		Circuits		Options	
BLANK	0-10V Dimming Driver (*included standard*)	**1**	1 Circuit	**12EBL**	12 Watt Emergency Driver
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			**CPOL**	Clear .125 Polycarbonate Outer Lens
				MIL1	MILSTD 461G compliant, 1 circuit[2]
				MIL2	MILSTD 461G compliant, 2 circuit[2]
				EMST	Emergency Backup with Self-Testing

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

DIMENSIONS