

Pharmaceutical • Biotech Biosafety • Research Facilities • Hazardous Locations



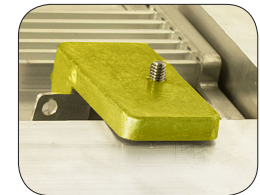
Clear-Vu Lighting's cleanLED™ luminaires are designed to maximize the effectiveness/efficiency of LED technology and protect the integrity of clean room (ISO3-ISO8) and containment area (BSL3 and BSL4) environments.

Listings, ratings, certifications and protocols include: IP66 (ISO60598); Hazardous Locations – Optional Class I, Division 2; Class II, Division 2; NSF2 (Splash Zone); LM79; LM80; DLC Qualified. Optional MIL STD 461F.

First-time innovations include: deep-draw stainless steel lens frame with no surface welding; universal installation design (gypsum, 2.0" walkable ceiling panels and 2.0" T-Bar); edge-lit LED optics; one-piece mono-gasket system; wire and install without removing lens frame; LED heat sink/heat fin aluminum housing design; factory leakage testing and registration of every lighting fixture – 100%.



*Patent-pending Mono-Gasket System™ (shown in black) insulates controlled environments from the plenum space and provides and provides IP66 protection for the interior of the lighting fixture*



*The sealed swing-lock mounting brackets are adjustable without removing the lens frame, greatly reducing installation time. LED boards (shown in green) are mounted directly to integral heat sink/heat fins maximizing conducted heat dissipation*



*One-piece overlapping lens frame fasteners are positioned very close to the perimeter of the lens frame, facilitating consistent ceiling structure contact*

## FEATURES AND BENEFITS:

### BEST-IN-CLASS LED LIGHT ENGINE

- Edge-Lit optical system produces even facial luminance and glare free uniform lighting distribution
- DLC qualified
- 80,000 hour design life – 5 year warranty

### HIGH-TECH ENCLOSURE

- Heavy duty, low-profile (2.0") extruded aluminum housing and die-cast end caps maximize conducted heat dissipation and produce a housing strong enough for walkable ceilings
- One-piece, deep-draw stainless steel lens frame is free of surface welding. 60° beveled edge produces a progressive surface with the ceiling
- One-piece Mono-Gasket System™ seals housing to ceiling structure and lens frame to housing

### UNMATCHED CONTROLLED ENVIRONMENT PERFORMANCE

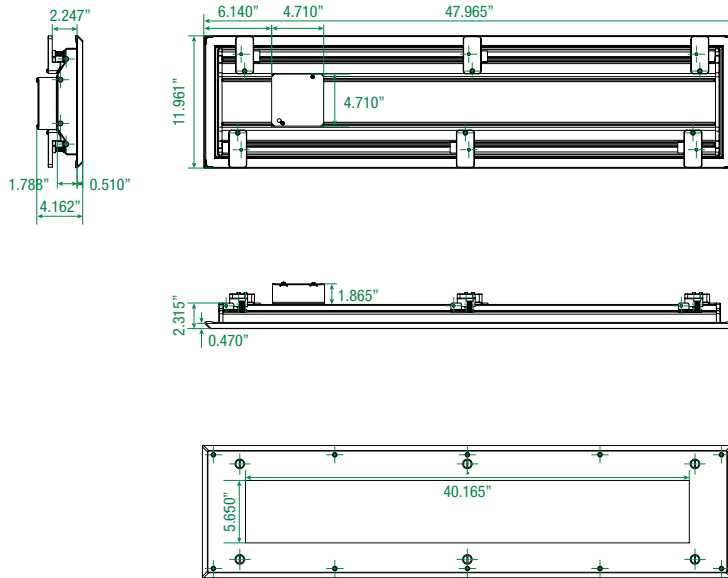
- Independent Lab (NRTL) tested for leakage – IP66 (IEC60598)
- Independent Lab tested for ease of cleanability, corrosion resistance and toxicity – National Sanitation Foundation (NSF2/Splash Zone)
- Class I, Division 2 and Class II, Division 2 listed to assure safe operation in hazardous locations
- Optional MIL STD 461F
- IP66 sealed wire-way junction and swing-lock mounting brackets protect the housing interior from plenum space contaminants

### EASE OF INSTALLATION

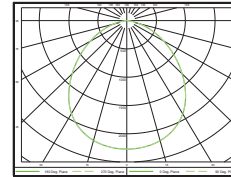
- Lens frame does not need to be removed for wiring or installation
- Lighting fixture designed for universal installation (gypsum, 2.0" walkable ceiling panels and 2.0" T-Bar)

### DIMENSIONAL DATA

Housing requires a ceiling cutout of 9.75" x 45.75"

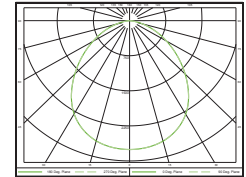


### POLAR PLOTS — Test #: 11563064



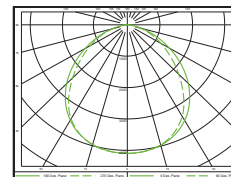
CLF14-S1-C-UV / Lumens: 5559

Zone	Lumens	% of Luminaire
0-40	2857	51.4%
0-60	4716	84.8%
0-90	5559	100.0%
90-180	0	0%



CLF14-M1-C-UV / Lumens: 6746

Zone	Lumens	% of Luminaire
0-40	3468	51.4%
0-60	5724	84.9%
0-90	6746	100.0%
90-180	0	0%



CLF14-H1-C-UV / Lumens: 10030

Zone	Lumens	% of Luminaire
0-40	5159	51.4%
0-60	8514	84.9%
0-90	10030	100.0%
90-180	0	0%

### SPECIFICATIONS

**Housing:** Low-profile (2.0") extruded aluminum housing with die-cast aluminum end caps. Extrusion profile produces internal heat sink and external heat fins to conduct/dissipate heat away from LED junction point to the housing exterior. Housing will support 1,000 pounds for walkable ceiling applications.

**Lens Frame:** One-piece, deep-draw fabricated Type 304 or Type 316 stainless steel lens frame free of surface welding. 60 degree beveled edge produces a progressive surface with the ceiling.

**Optics:** Edge lit LED optics. Light guide panel provides even facial illuminates and eliminates glare. Available in 4,000K, 5,000K and UV filtering amber.

**Electrical:** 100-277 VAC integral high efficiency driver and power supply (>0.90 power factor). Dimmable (0-10V). Optional 1100 Lumens Flash 90-minute battery back-up (regular and Class I, Division 2/ Class II, Division 2).

**Installation:** Integral junction box with hermetically sealed wireway junction. Designed for universal installation – 2.0 T-Bar grid, modular ceiling panel (2"-3") and stick-built gypsum ceilings. Wiring and installation does not require removal of lens frame.

**Listings, Ratings, Certifications and Protocols:** IP66 (ISO60598); Hazardous Locations – Class I, Division 2; Class II, Division 2; NSF2 (Splash Zone); LM79; LM80; DLC Qualified. Optional MIL STD 461F.

### ORDERING INFORMATION

SERIES	LIGHT ENGINE	COLOR TEMP.	VOLTAGE	HOUSING	LENS FRAME	LENS	BACKUP	CERTS	OPTIONS
CLF14			UV	HAL					
<b>CLF14=</b> cleanLED recessed flange or 2.0" T-bar grid 1x4	<b>S1=</b> 60 W/ 5,600 lm <b>M1=</b> 80 W/ 6,800 lm <b>H1=</b> 130 W/ 10,000 lm	<b>N=</b> 4,000K <b>C=</b> 5,000K <b>A=</b> Amber UV Filtering	<b>UV=</b> Universal Voltage (100-277 VAC)	<b>HAL=</b> Extruded aluminum with die-cast end caps	<b>LFSS304=</b> 18-gauge Type 304 Stainless Steel <b>LFSS316=</b> 18-gauge Type 316 Stainless Steel	<b>CTG=</b> .125" Clear Tempered Glass <b>CIA=</b> .125" Clear Impact Acrylic	<b>NB=</b> No Backup <b>IBB=</b> Integral Battery Back-up <b>HBB=</b> Class I, Div 2 Battery Backup	<b>MS=</b> MIL STD 461F <b>C1D2=</b> Class I, Div 2 <b>C2D2=</b> Class II, Div 2	<b>SMA=</b> Surface Mount Adapter <b>CRB=</b> Continuous Row Bracket <b>IB=</b> Installation Bracket

\*All lumens initial

### PROJECT INFORMATION

Project Name/Location \_\_\_\_\_

Fixture Type \_\_\_\_\_

Fixture Quantity \_\_\_\_\_

Catalog Number \_\_\_\_\_