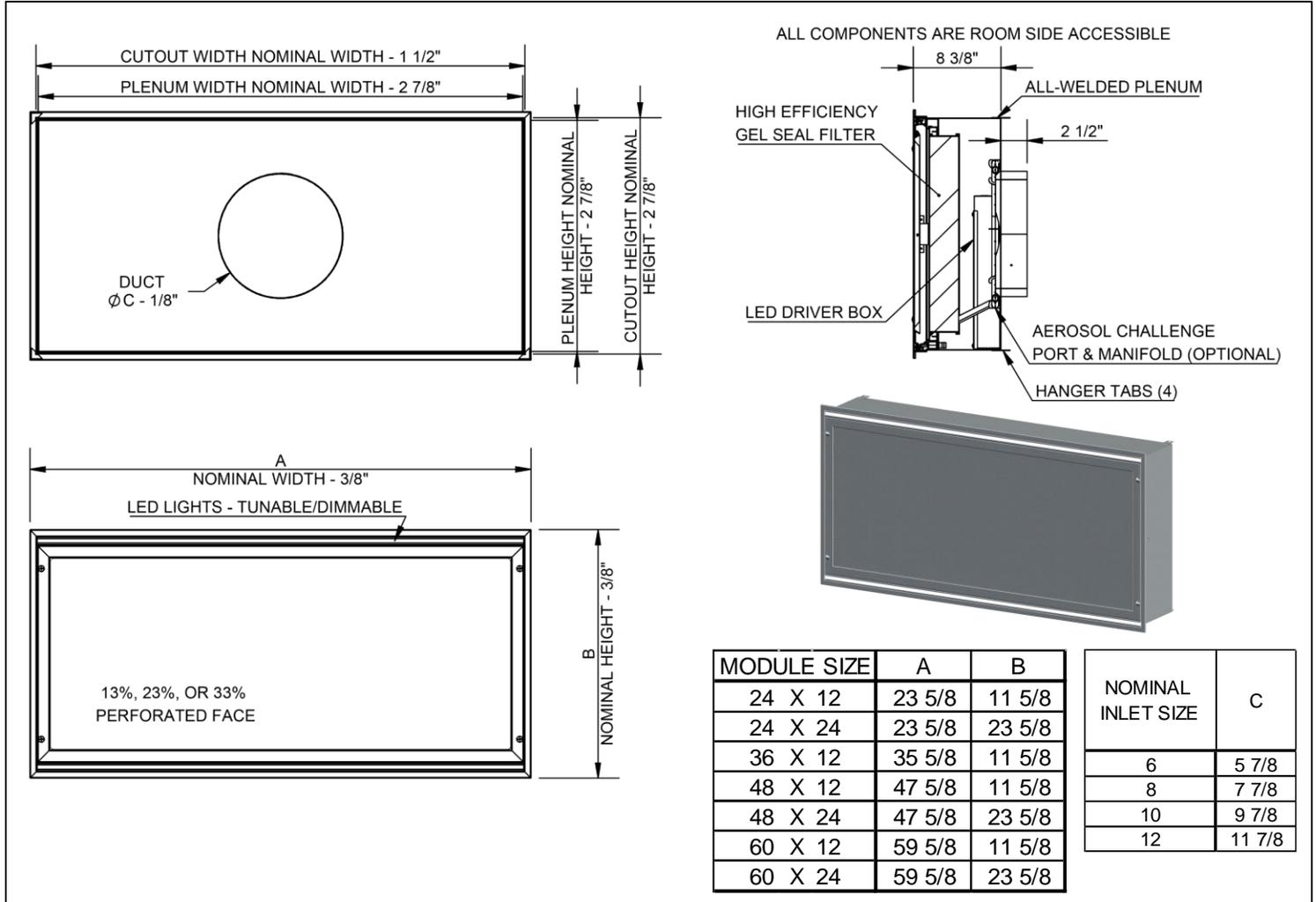


## Laminar Flow Ceiling Diffusers Integral LED luminaire • Perforated Face

Model: TLFR-AA-LED • Removable Face • HEPA Filter Rack • Aluminum  
 TLFR-SS-LED • Removable Face • HEPA Filter Rack • Stainless Steel



### General Description

- Model TLFR-LED filtered laminar flow diffuser generates a low velocity, evenly distributed, unidirectional air pattern.
- Integral LED luminaire with tunable color temperature. 2700K-6500K @ 90 CRI.
- 20 GA, walkable plenum up to 250 lbs
- Airtight construction with all-welded plenum seams
- Hanger tabs for unit support above ceiling
- Quick change tool-less auto-aligning filter retention system
- Compatible with 2", 3", and 4" thick, gel seal R-series filters.
- Static Pressure Test Port
- Perforated face is quickly removed by loosening ¼ turn fasteners.
- Retainer cables prevent accidental dropping of perforated face after removal.
- UL Listed Air-handling luminaire
- Designed for surfaced mounted or conventional 1" or 1½" T-bar ceiling systems
- Optional 90-minute battery backup @ 20% output
- Optional tunable Green-6500K controller option
- Optional fixed color temperature, factory set.
- Optional snap-in removable equalization baffle

## Basic Unit Configuration

Check  if provided.

### Construction Material

- Aluminum Construction
- 304 Stainless Steel Construction

### Face Free Area

- 13% Free Area Perforated Face (For airflows up to 35 CFM/ft<sup>2</sup>\*)
- 22% Free Area Perforated Face (For airflows between 35 & 65 CFM/ft<sup>2</sup>\*)
- 33% Free Area Perforated Face (For airflows 65 CFM/ft<sup>2</sup> and higher\*)

### Lighting Configuration

- TD - Tunable White – 2700K-6500K
- TG - Tunable Green to White – Green-6500K
- FC - Fixed Color, Factory Set: \_\_\_\_\_

Note: Indicate Green or color temperature 2700K-6500K

### Finish

- #01 Aluminum Finish
- #04 Mill Finish
- #21 Enviro-Thane\* to match sample
- #26 White
- #25 Off-White
- #84 Black

## Accessories (Optional)

Check  if provided.

- Radial Damper – Cable Operated
- Butterfly Damper – Cable Operated
- Aerosol Injection Port & Distribution Manifold
- 90-minute Battery Backup
- Removable Equalization Baffle
- Factory Certified Leak Tested - In accordance with IEST-RP-CC034.3
- Fully Welded Plenum & Inlet
- HEPALert LED Filter Indicator – 24V
- HEPALert LED Filter Indicator – Battery Operated
- Insulated Plenum (External)

## Listings and Lighting Specifications

### UL Listings

- UL 1598 - Standard for Safety Luminaires
- UL 2043 - Standard for Safety Fire Test
- UL 2108 - Standard for Low Voltage Lighting Systems
- UL 8750 - Standard for Light Emitting Diode (LED) Equipment for Use in Lighting Products
- UL 1310 - Standard Class 2 Power Units
- UL 94 - Standard for Tests for Flammability of Plastic Materials for Parts in Devices and Appliances

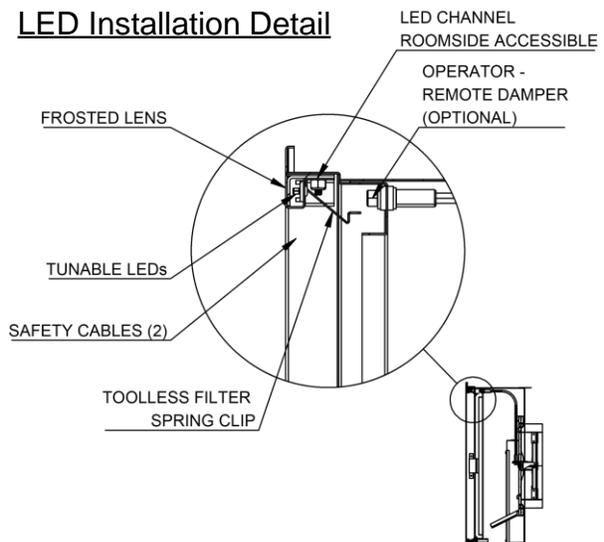
### Lighting Specifications

- Tunable/Dimmable - 2700-6500k; 90CR
- Color: White - Tunable from Warm to Cool White
- Variable Controller - 0-10V
- Driver - 100watt - Class 2 - 24V Output - 120-277VAC Input
- Efficacy (L/W) - 6,160/100 = 61.6 Lumens per watt
- 100-240VAC = 1.1Amp per Unit or 277VAC = 0.5Amps per Unit

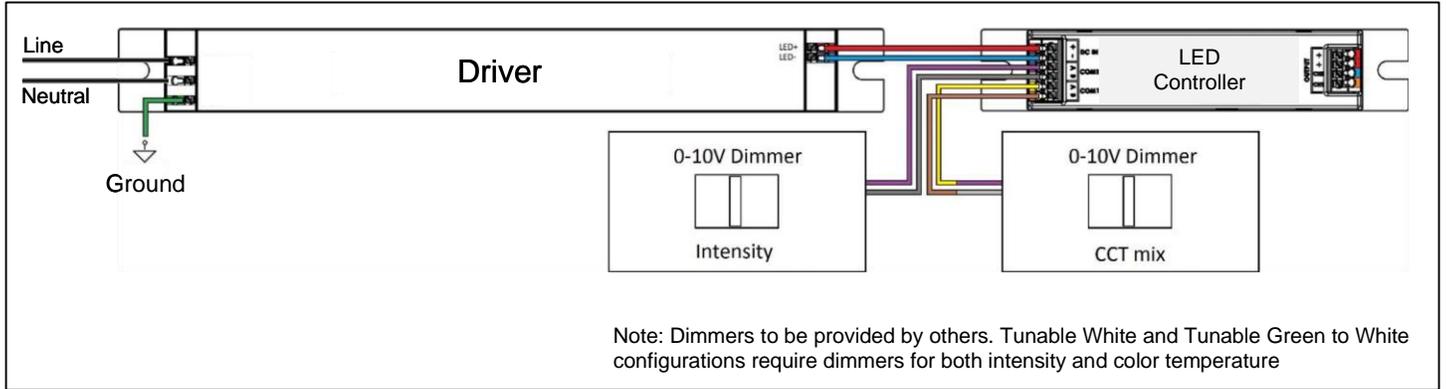
### Driver Details

- Wide input range, 100-305V (Class I)
- Full power output at 70-100%, constant power operation
- Metal Case with IP67 rated ingress protection
- Surge Protection with 6KV/4KV
- -40°F – 195°F operating range
- Lifetime >50,000 hrs.

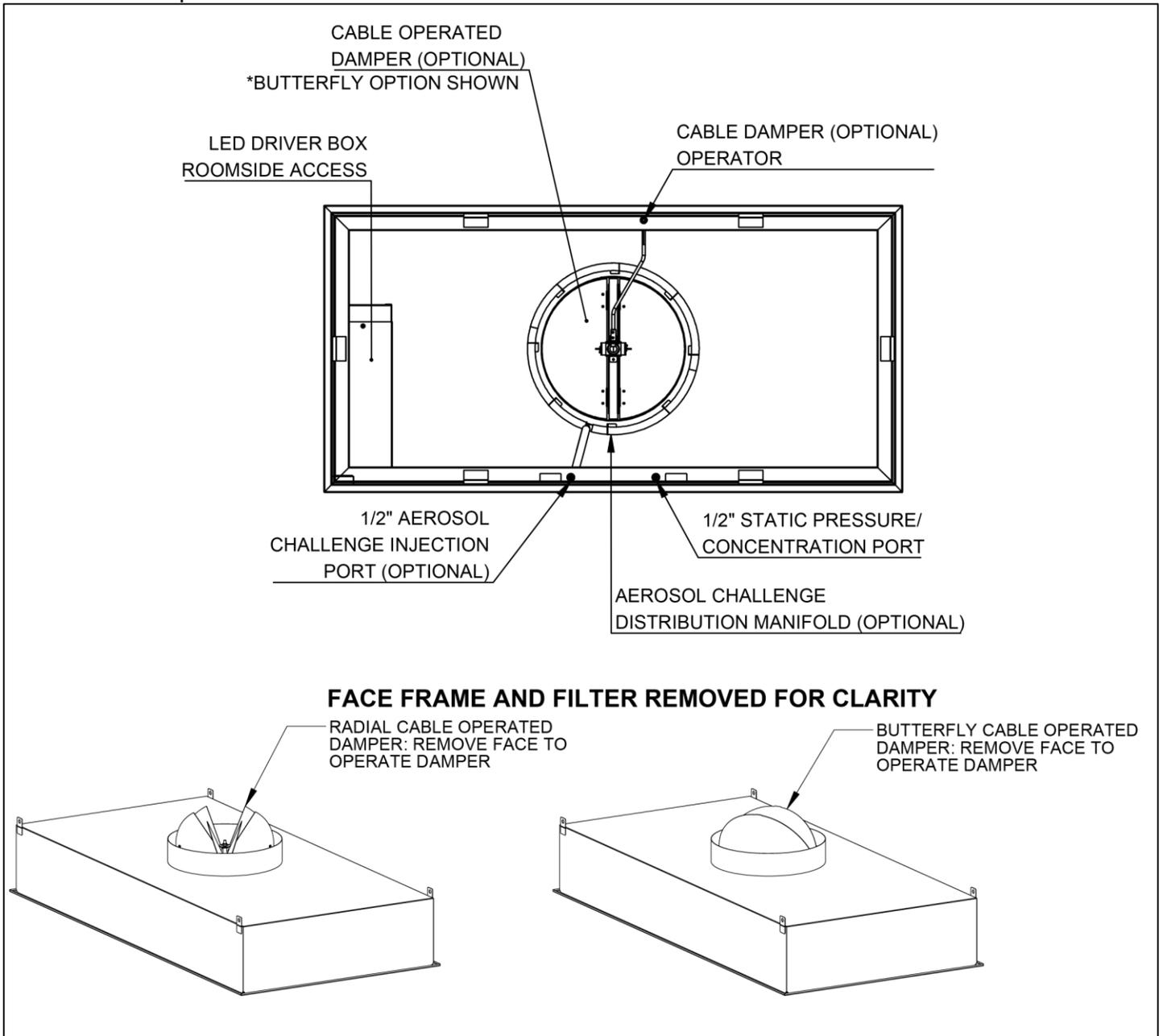
### LED Installation Detail



Wiring Diagram:



Port & Cable Operator Details:



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