

Laminar Flow Ceiling Diffusers Integral LED luminaire • Perforated Face

Model: TLF-AA-LED • Removable Face • Aluminum Face & Frame – 304 Stainless Steel Plenum
TLF-SS-LED • Removable Face • 304 Stainless Steel

CUTOUT SIZE NOMINAL WIDTH - 1 1/2"
PLENUM WIDTH NOMINAL WIDTH- 2 7/8"
PLENUM HEIGHT NOMINAL HEIGHT - 2 7/8"
CUTOUT SIZE NOMINAL HEIGHT - 1 1/2"

DUCT
Ø C - 1/8"

ALL COMPONENTS ARE ROOM SIDE ACCESSIBLE

6"
2 1/2"
Solid Adjustable Trim Disc Accessible From Face
LED Driver Box
51% Perf Collar
Hanger Tabs (4)

A
NOMINAL WIDTH - 1/4"
LED Lights - Tunable/Dimmable
Trim Disc Access
13%, 23%, or 33% Perforated Face
Quarter-Turn Fasteners Typ
B
NOMINAL HEIGHT - 1/4"

MODULE SIZE	A	B
24 X 12	23 3/4	11 3/4
24 X 24	23 3/4	11 3/4
36 X 12	35 3/4	11 3/4
48 X 12	47 3/4	11 3/4
48 X 24	47 3/4	11 3/4
60 X 12	59 3/4	11 3/4
60 X 24	59 3/4	11 3/4

NOMINAL INLET SIZE	C
6	5 7/8
8	7 7/8
10	9 7/8
12	11 7/8

Note: LED Lights run parallel to width of diffuser.

General Description

- Model TLF-LED 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
- Retainer cables prevent accidental dropping of perforated face after removal.
- Perforated face is quickly removed by loosening ¼ turn fasteners.
- Internal baffles distribute air evenly over perforated face.
- Designed for surfaced mounted or conventional T-bar ceiling system.
- Compatible with 1" or 1½" T-bar ceiling grids.
- Roomside accessible control enclosure
- UL Listed Air-handling luminaire
- Optional 90-minute battery backup @ 20% output
- Optional tunable Green-6500K controller option
- Optional fixed color temperature, factory set.

Basic Unit Configuration

Check if provided.

Construction Material

- Aluminum Construction
- 304 Stainless Steel Construction

Face Free Area

- 13% Free Area Perforated Face
- 22% Free Area Perforated Face
- 33% Free Area Perforated Face

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

- #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
- 90-minute Battery Backup
- Removable Equalization Baffle
- 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

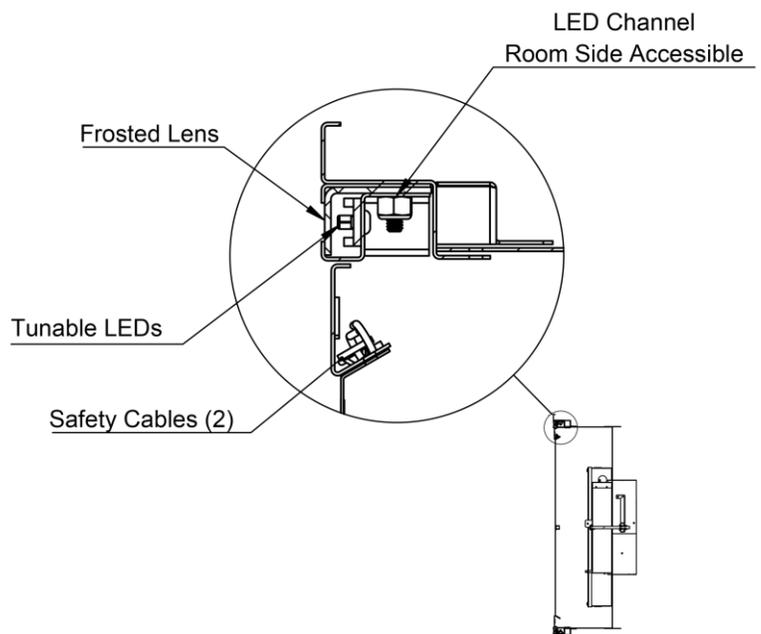
Lighting Specifications

- 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

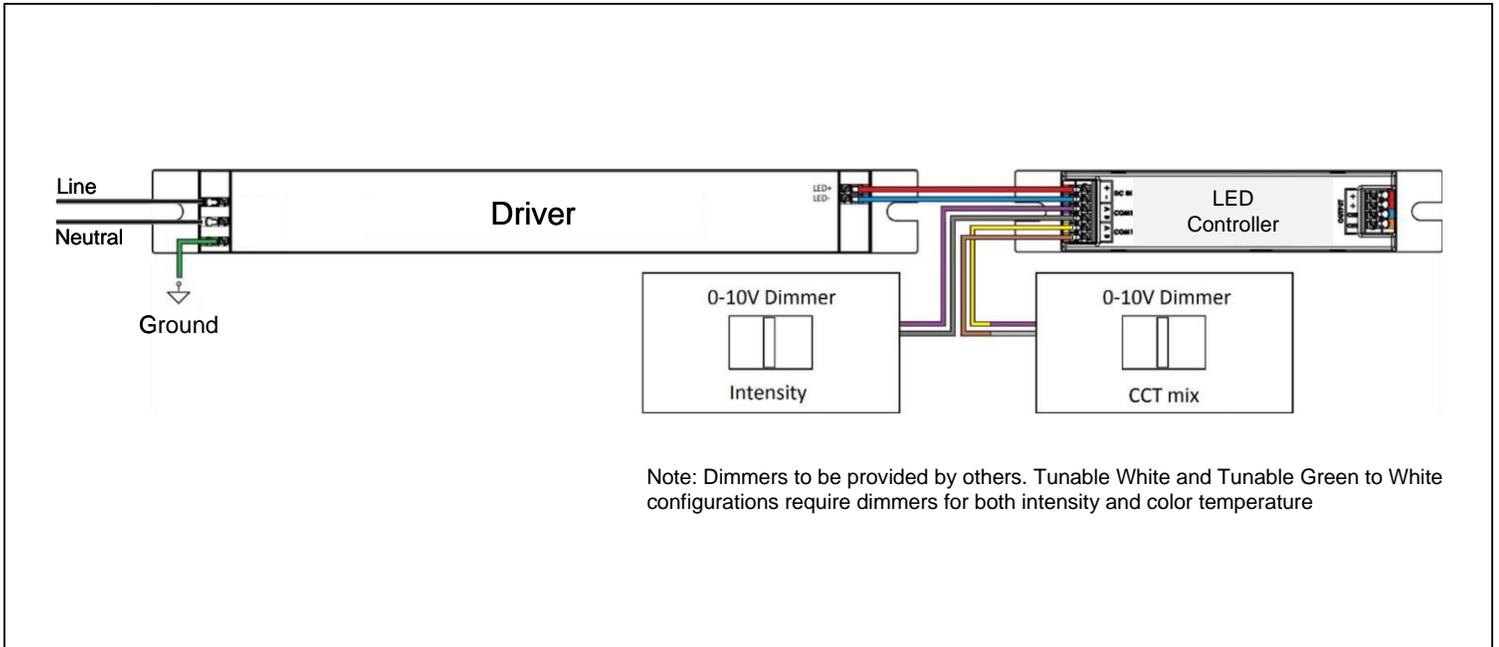
Driver Details

- 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.

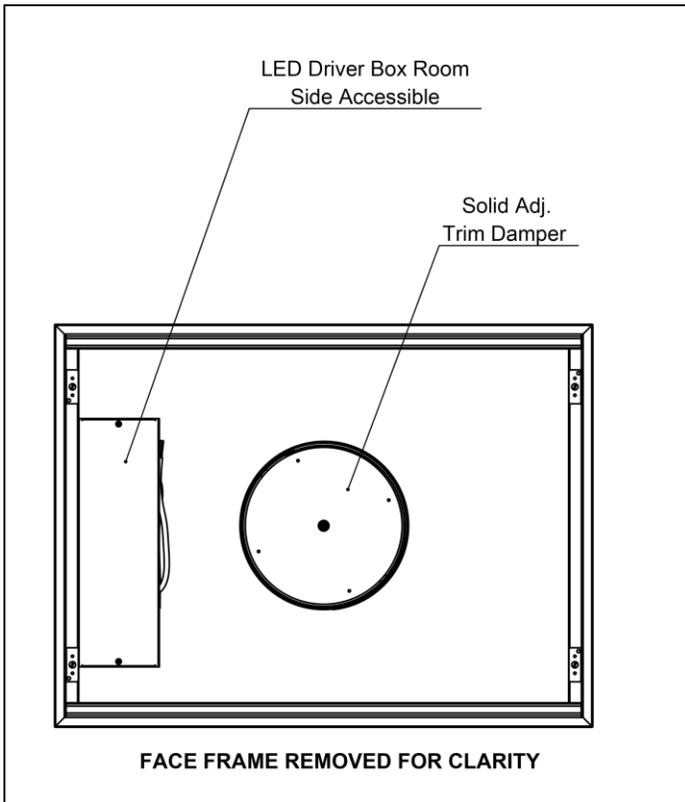
LED Installation Detail



Wiring Diagram:



Control Enclosure Access Detail:



Cable Operated Damper Detail:

