

Client: Project: Type: Quantity:

### CONSTRUCTION

22-gauge metal frame, 95% reflective white polyester powder coat bonded to phosphate-free multi-stage pretreated metal. All parts painted after fabrication to facilitate installation, increase efficiency and inhibit corrosion. All corners are rounded for safe handling. Multiple wiring entrances on driver enclosure for easy access. Integral T-bar clips for installation into T-grid ceilings.

#### **OPTICS**

Backlit design provides exceptional lighting distribution. Frosted polycarbonate lens offers edge to edge smooth illumination for maximum visual comfort.

#### **ELECTRICAL**

80 CRI standard. 90 CRI optional.

Long-life LEDs, coupled with a high-efficiency driver, provide superior illumination for extended service life. Greater than 70% LED lumen maintenance at 60,000 hours (L70>60,000).

Selectable lumen and CCT technology allows easy field-adjustable capability, luminaire ships with maximum output and 4000K CCT setting.

All CCTs are within 3 MacAdam ellipses.

Driver operates at 120-277V input, 0-10V dimmable driver, down to 10%. Integral thermal protection from driver, maximum output reduced by 50% when TC temperature reach 80C.

#### SENSORS (OPTIONAL)

CONTROL-LVFA AVI-ON Bluetooth Mesh Controller.

CONTROL-BLE-620 Bluetooth Wireless Fixture Controller for CCT Tuning, Dimming, Grouping, Scheduling Features (ALS Control Mobile App).

### MOUNTING

Designed to accommodate lay-in ceilings, Slot T, and T-bar suspension system for 5/8" and 3/8" width.

Built-in earthquake clips come standard.

Surface/cable mount applications, use surface mount accessories.

Plaster or sheetrock installations, select flange kit.

#### STANDARD FINISH

High Reflective White finish.

### **CERTIFICATION**

IC Rated.

Damp location label standard.

Meets Buy America Act requirements.

Option for "BABA" compliance upon request.

All luminaires are built to UL1598 standards and bear appropriate cULus labels. For Emergency application, equipment with UL924 certified battery packs.

DLC® Premium (DesignLights Consortium Qualified)

### WARRANTY

5 year warranty, see Limited Warranty for additional information.



TREA-4 (Gen 2)

### SHIPPING DATA

Product	Measurement	Weight
TREA-G2-1 (2-pack)	48"L x 12"W x 3"H	16 lb
TREA-G2-2 (2-pack)	24"L x 24"W x 3"H	15 lb
TREA-G2-4 (2-pack)	48"L x 24"W x 3"H	24 lb

















ORDER INFORMATION	EXAMPLE: TREA G2 2

Fixture Series Model Finish Input

TREA blank blank

Mounting

Accessories Options

A SERIES

TREA Selectable Lumen and CCT LED Troffer

B MODEL

Code Size Power CCT Output 1-G2 1x4 20W / 25W / 30W 3000K / 3500K / 4000K / 5000K / 6500K up to 4500lm 2-G2 25W / 30W / 35W 2x2 3000K / 3500K / 4000K / 5000K / 6500K up to 5250lm 4-G2 2x4 34W / 38W / 45W 3000K / 3500K / 4000K / 5000K / 6500K up to 6750lm

C FINISH

blank White

D INPUT

blank 120-277V, 0-10V Dimming w/12V AUX Output MD 120-347V, 0-10V Dimming w/12V AUX Output

G MOUNTING

blank Standard lay-in

MOUNT-LP-14-FGK1x4 Flange Kit (Plaster, Sheetrock or Drywall)MOUNT-LP-22-FGK2x2 Flange Kit (Plaster, Sheetrock or Drywall)MOUNT-LP-24-FGK2x4 Flange Kit (Plaster, Sheetrock or Drywall)

MOUNT-LP-14-SMK2" Tall 1x4 Surface Mount KitMOUNT-LP-22-SMK2" Tall 2x2 Surface Mount KitMOUNT-LP-24-SMK2" Tall 2x4 Surface Mount Kit

### H ACCESSORIES/OPTIONS

AIA Assembled in America, compliant with BAA (COTS)

BABA Build America, Buy America Act (BABAA) Compliant

**90CRI** 90CRI

ZENOR-DIODE\* Custom Output Controller, specify Wattage / Lumen Value \_\_\_\_\_

CONTROL-LVFA\* AVI-ON Bluetooth Mesh Control System

CONTROL-BLE-620\* Bluetooth Wireless Fixture Controller for CCT Tuning, Dimming, Grouping, Scheduling Features (ALS Control Mobile App)

EMB-H08170\*
 90-Minute Self-Diagnostic Emergency Battery 8W 100-347VAC Input 170VDC Output
 EMB-H18170\*
 90-Minute Self-Diagnostic Emergency Battery 18W 100-347VAC Input 170VDC Output
 EMB-H40170\*
 90-Minute Self-Diagnostic Emergency Battery 40W 100-347VAC Input 170VDC Output

GTD-ESRLUD\*\* Emergency Battery Generator Transfer Device 120-277 VAC Input

-C 3/8" x 6FT Steel Flex 5-18AWG Solid 6' leads BLK/WH/GRN/PUR/PNK & 3/8" Die Cast Screw-In Locknut Connectors

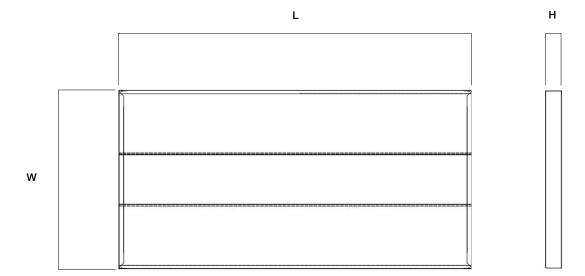
\*see page 5 for sensor and emb specs

<sup>\*\*</sup>see page 8 and 9 and GTD spec



# **DIMENSIONS**

Model	W	L	Н
TREA-1-G2	11.70" (298mm)	47.80" (1213mm)	2.0" (50mm)
TREA-2-G2	23.76" (603mm)	23.76" (603mm)	2.1" (54mm)
TREA-4-G2	23.76" (603mm)	47.80" (1213mm)	2.1" (54mm)





# PERFORMANCE DATA

SYSTEM WATTS	SIZE	VOLTAGE	LUMEN	LPW	QTY ON PALLET
20W	1x4	120-277V	3000	150	100
25W	1x4	120-277V	3750	150	100
30W	1x4	120-277V	4500	150	100
25W	2x2	120-277V	3750	150	120
30W	2x2	120-277V	4500	150	120
35W	2x2	120-277V	5250	150	120
34W	2x4	120-277V	5100	150	60
38W	2x4	120-277V	5700	150	60
45W	2x4	120-277V	6750	150	60

# DLC CODE

Part Number	DLC Part Nnumber	DLC Class
TREA-1-G2	S-SPVG2B	Premium
TREA-2-G2	S-VQ2Al1	Premium
TREA-4-G2	S-8MCVZA	Premium



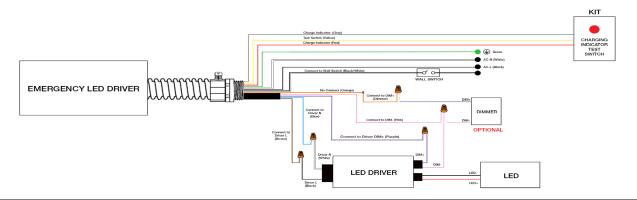
# SENSOR / CONTROL SPEC

Model	Туре	Mounting	Coverage	Input	Function	Programmable
ZENOR-DIODE	Output Controller	Integral to Fixture	-	0-10V	Cap Maximum Output	Specify Max Wattage / Lumen
CONTROL-LVFA (see page 6 for detail)	Fixture Controller	Integral to Fixture	-	12V DC	Bluetooth Mesh On/Off/Dimming Scheduling	AVI-ON Bluetooth Mobile App
CONTROL-BLE-620 (see page 7 for detail)	Fixture Controller	Integral to Fixture	-	12V DC	CCT Tuning Dimming Grouping Time Schedule	ALS Control Bluetooth Mobile App



# **EMB SPEC**

Model	Battery Capacity	Input	Output	Output Power	Operating Temp	Installation
EMB-H08170	90mins	100-347VAC	170VDC	8W	0°C ~ 50°C 32°F ~ 122°F	Factory or Field Install
EMB-H18170	90mins	100-347VAC	170VDC	18W	0°C ~ 50°C 32°F ~ 122°F	Factory or Field Install
EMB-H40170	90mins	100-347VAC	170VDC	40W	0°C ~ 50°C 32°F ~ 122°F	Factory or Field Install





### **CONTROL-LVFA SPEC**



Quick and easy validation of wiring and network

# Direct Connect™ Sensor Port

Simple and cost-effective addition to Avi-on sensors

# **Terminal Blocks & Mounting Tabs**

Faster, easier and lower cost installation eliminating connectors



**Internal Antenna** 

Improved performance and eliminates risk of accidentally cutting a hanging wire

### **SPECIFICATIONS**

INPUT VOLTAGE: 12-24VDC

CURRENT: 15mA without a Sensor 19mA with a DC PIR Sensor

48mA with a DC Microwave Sensor

**0-10V DIMMING:** 12-24VDC

**SIZE:** 2.30in x 1.43in x 0.75in

(58.2mm x 36.4mm x 19mm)

MOUNTING: Removable mounting tabs

**WEIGHT:** 0.45 oz (16g)

**OPERATING TEMP:** -22°F to +158°F (-30°C to + 70°C)

RADIO FREQUENCY: 2.4GHz

WIRELESS STANDARD: BLE 4.2 with Mesh
POINT TO POINT RANGE\*: 80ft with obstructions
350ft unobstructed

SECURITY: AES 128-bit encryption for device to device

communication

AES 256-bit encryption for device to cloud

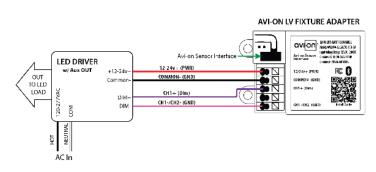
communication

**WARRANTY:** 5 years; 10 years optional **REGULATORY:** 5 CC: 2AFZI-AVI1010 B

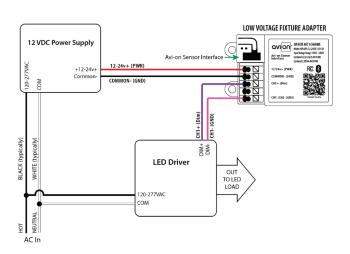
IC: 20544-AVI1010 B BQB: D031801, DID: 86303

UL 916, 2043 (Plenum Rated)

### WIRING DIAGRAM



Fixture adapter powered by LED driver auxiliary output



Fixture adapter connected to LED driver and using power supply

 $<sup>^{*}</sup>$ When communicating through the mesh, range is essentially unlimited (5000ft+)



# CONTROL-BLE-620 BLUETOOTH CONTROLLER

Client: Project: Type: Quantity:

### **FEATURE**

- Installation: Factory installed, 12V AUX power required
- Commissioning: Wirelessly through ALS Control Mobile App (iOS / Android)
- Certification: DLC 5.1 Networked Lighting Control System
- Control: Dimming, High-End Trim, Zoning, Continuous Bi-level Dimming
- CCT Tuning: CCT Tuning feature for Dual/Multi-CCT LED board fixture only
- Sensor: Plug-N-Play with ALS Control sensors
- Zone Control: Zoning and Grouping control, Scheduling



### **SPECIFICATIONS**

WIRELESS STANDARDS: 5.0 Bluetooth Mesh
INPUT VOLTAGE: 12-14VDC, >50mA
OUTPUT VOLTAGE: LED Max. 150VDC Max. 2A

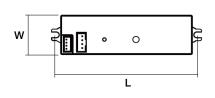
CONTROL CUITAGE

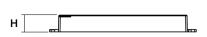
CONTROL OUTPUT: 0-10V

**OPERATING TEMP:**  $-40^{\circ}\text{F} \sim +158^{\circ}\text{F} (-40^{\circ}\text{C} \sim +70^{\circ}\text{C})$ 

COMMISSIONING RANGE: 50FT
BLUETOOTH RANGE: 100FT
WARRANTY: 5 years
IP RATING: IP20

### **DIMENSIONS**

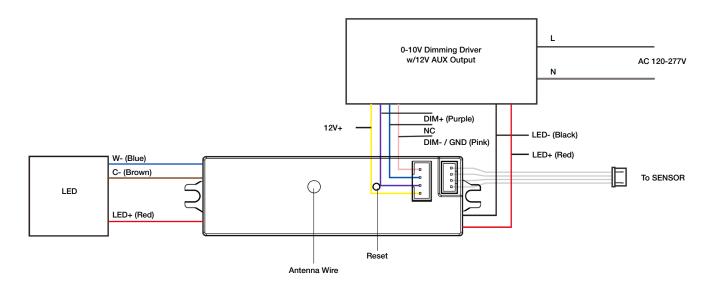




L	Н	W
3.5"	0.43"	1.00"
(89mm)	(11mm)	(26mm)

Lead	Antenna
Wire	Wire
10.60"	10.60"
(270mm)	(270mm)

### **WIRING DIAGRAM**













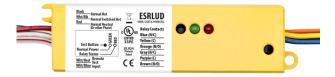
# GTD-ESRLUD Generator Transfer Device

Client: Project: Type: Quantity:

### CONSTRUCTION

Yellow metal casing. Integrates with dry contact systems to provide lighting during power outages. Features a slim enclosure, allowing for seamlessly integrating into existing building infrastructure.

Designed for commercial and industrial applications that require an emergency load to be switched on during a loss of normal power.



# SPECIFICATIONS TESTING

COIL CURRENT: Normal Power = 6mA MAX

COIL VOLTAGE INPUT: 120-277V AC (50/60 Hz)

EXPECTED RELAY LIFE: 10 Million Cycles Min Mechanical

RELAY CONTACT RATINGS: 10 Amp Resistive @ 30 V DC

**OPERATING TEMP:** -30°F ~ +140°F (-34°C ~ +60°C)

**OPERATE TIME:** 18ms

HUMIDITY RANGE: 5-95% (Noncondensing)
LED: Green = Normal Power
Red = Relay Status

**DIMENSIONS:** 1.40"H x 5.63"W x 1.00"D

WIRES: 16", 600V Rated

OVERRIDE (TEST SWITCH): No

**APPROVALS:** UL924, C-UL, CE, ROHS **NOTES:** Device Draws no Current From

**Emergency Source** 

10 Amp General Use @ 277 V AC

INITIAL TEST FOR Apply Normal Power To Normal Power Input
CORRECT WIRING:

a. Green LED (Normal Power) should be ON

b. Red LED (Relay Status) should be ON

c. Load should be OFF

d. Relay Contact (N/O) should be CLOSED

LOCAL TEST BUTTON: 1. Turn Switched Circuit OFF. Load be OFF.

2. Press and Hold "Local Test Button"

3. Load should Turn ON

4. Release "Local Test Button" and Emergency Light should Turn OFF.

WALL SWITCH: 1. Turn ON Wall Switch If not already ON

Load should Turn ON
 Turn Wall Switch OFF
 Load will Turn OFF

### **TROUBLESHOOTING**

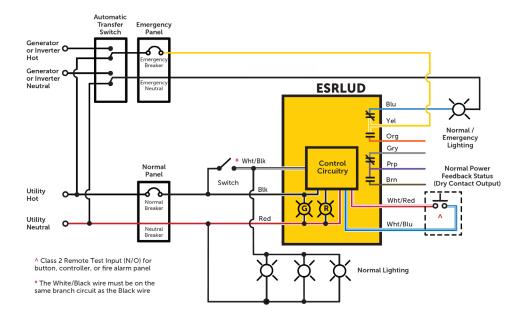
CONDITION	ACTION
Green LED is OFF	Check Normal Power Input Wiring (Black and Red Wires) and Voltage.
Red LED is OFF but Load is OFF	<ul> <li>Check Bulbs and Ballast.</li> <li>Check Load Wiring (Blue Wire and Load's Neutral).</li> <li>Replace Unit. (Assuming N/C Contact is Used).</li> </ul>
Load is ON but Red LED is ON	Replace Unit. (Assuming N/C Contact is Used).
Red LED does not Turn OFF and Load does not Turn ON when being tested	<ul> <li>Check Bulbs and Ballast.</li> <li>Check Wiring Connections if Using a Remote Test Option.</li> <li>Press Local Test Button on the Unit.</li> <li>Replace Unit.</li> </ul>
Red LED will not Turn ON and Load will not Turn OFF	<ul> <li>Verify Status of Normal Power Input.</li> <li>Open Wall Switch Input.</li> <li>Verify That No Test Inputs are Stuck Closed.</li> </ul>



# **GTD-ESRLUD** Generator Transfer Device

# **WIRING DIAGRAM**

### USING EMERGENCY LIGHTING AS NORMAL LIGHTING



### **OVERRIDING A 0-10V DIMMER**

