ILLUCENT TROFFER INSTALLATION GUIDE

LANTANA ⋏⋏ LED

![Warning triangle icon] # READ AND FOLLOW ALL SAFETY PRECAUTIONS AND INSTRUCTIONS

- Only qualified personnel shall install and service this fixture.
- Luminaire must be wired and grounded in accordance with the National Electrical Code, local codes, & ordinances.
- Wire supply connections must be made with UL-approved connectors.
- Mount in locations and at heights where equipment cannot be tampered with by unauthorized personnel.
- Using accessory equipment not recommended by the manufacturer may cause unsafe conditions.
- Do not mount solely to ceiling tile.
- Do not mount near gas or electric heaters.
- Do not use this equipment for other than its intended use.
- Do not use this equipment outdoors unless rate for outdoor use.
- Do not install suspended or pendant mount fixtures near areas of high air movement (HVAC vents, doorways, windows, etc.)
- Do not feed excess cable or wiring into the fixture or junction box where electrical wires reside.
- Always disconnect power before installing any luminaire into an electrical junction box.

FOR INTEGRAL EMERGENCY FIXTURES

Onboard Emergency Battery Backup - For troubleshooting, wiring diagrams, and disabling the emergency driver refer to the Bodine BSL10T3 instruction manual https://device.report/manual/6048783
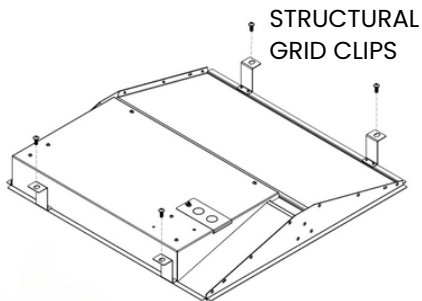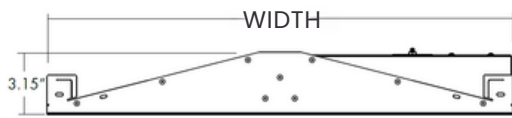
THIS PRODUCT CONTAINS A RECHARGEABLE LITHIUM-ION BATTERY. THE BATTERY MUST BE RECYCLED OR DISPOSED OF PROPERLY.
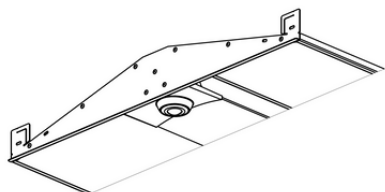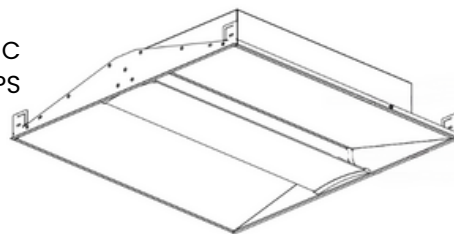
- Do not attempt to service the battery. A sealed, no-maintenance battery is used that is not field-replaceable. Contact the manufacturer for information on service.
- For Canadian applications, the output terminals should be in compliance with the accessibility requirement of the Canadian Electric Code.
- This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
- This product is for use with an emergency LED lighting load and supplies nominally 10.0 W/6.0 W (depending on model) of power, with a voltage of 15-54 VDC in emergency mode for a minimum of 90 minutes, in compliance with NFPA 101 and NEC 700.12.
- Make sure all connections are in accordance with the National Electrical Code or Canadian Electrical Code and any local regulations.
- This product is suitable for use in damp locations where the ambient temperature is 0°C minimum, + 55°C maximum. Product is also suitable for installation in sealed and gasketed fixtures. Product is not suitable for heated air outlets and wet or hazardous locations. Maximum allowable case temp is 65°C. See unit label for Tc measurement location.
- An unswitched AC power source is required (120-277 VAC, 50/60 Hz).
- This product must be grounded. See the wiring diagrams for details.
- To reduce the risk of electric shock, disconnect both normal and emergency power supplies before servicing. Follow the instructions in the OPERATION section to disable the output of this LED driver.
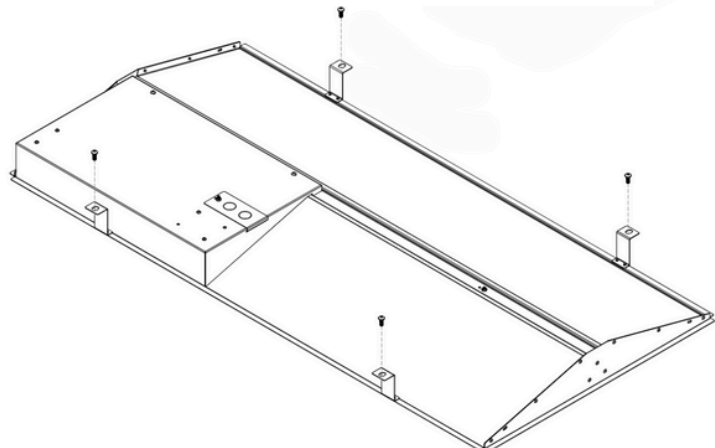- This emergency driver is suitable for both factory and field installation.

LANTANA LED
300 Brannan St, Suite 608 San Francisco, CA 94107
415-814-8500 | www.lantanaled.com

PRODUCT DETAILS

GRID TYPE	LENGTH		WIDTH		HEIGHT		WEIGHT (INT)		WEIGHT (REM)	
	IN	MM	IN	MM	IN	MM	LBS	KG	LBS	KG
2X2 STANDARD GRID (9/16 & 15/16)	23.75	603	23.75	603			9.5	4.31	7.5	3.41
2X4 STANDARD GRID (9/16 & 15/16)	47.75	1213					18	8.17	14	6.36
2X2 ARMSTRONG D-MAX & D-MAX PLUS	22.875	581	22.875	581			9.5	4.31	7.5	3.41
2X4 ARMSTRONG D-MAX & D-MAX PLUS	46.875	1191					18	8.17	14	6.36
2X4 POLARGY PICS & PICS GLOBAL	47.3	1201	23.3	592			18	8.17	14	6.36
2X2 TATE GRID & TATE DUO	22.75	578	23.1875	589	3.14	80	9.5	4.31	7.5	3.41
2X4 TATE GRID & TATE DUO	46.75	1187					18	8.17	14	6.36
2X2 GORDON DG 1.5, DG 3.0	23.1875	589	23.1875	589			9.5	4.31	7.5	3.41
2X4 GORDON DG 1.5, DG 3.0	47.1875	1199					18	8.17	14	6.36
2X2 GORDON DG X-SPAN	22.875	581	22.875	581			7.5	3.41	7.5	3.41
2X4 GORDON DG X-SPAN	46.875	1191					14	6.36	14	6.36

WIDTH — LENGTH
3.15"

STRUCTURAL GRID CLIPS

SEISMIC GRID CLIPS

INTEGRATED SENSOR W/ ENDCAP

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MOUNTING INSTRUCTIONS

The Illucent Troffer is IC Rated for safe contact with insulation and UL Certified for Elevated Ambient Operating Temperatures up to 70ºC Remote, 55ºC Integral, 35ºC Integral Emergency. Follow grid ceiling specifications for supporting weights and lighting placement.

Step 1: Gather Materials
Before starting the installation, ensure you have the following materials:
1. Fixture to be mounted
2. Appropriate hardware (screws, anchors, etc.)
3. Mounting brackets (if required)
4. Tools (drill, screwdriver, level, voltage tester, etc.)

Step 2: Safety
1. **Refer to safety precautions and instructions on page 2 before proceeding.**
2. Turn Off Power: Ensure the power is turned off at the circuit breaker to prevent electrical shock.
3. Verify that Power is Off: Use a non-contact voltage tester to confirm that the power is completely off at the junction box.

Step 3: Prepare the LED Fixture
1. Carefully unpack your LED light fixture.
2. Remove and save screw and lock nut from the knockout cover to access the internal wiring. See *figure 1*
3. Check the fixture's wires (black, white, and green, or black and red) and ensure the UL-certified connections (if provided) are in place and secure.

figure 1
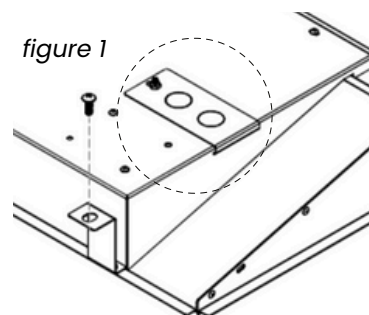
Step 4: Verify Hardware Compatibility
1. Refer to the chart below to verify that the hardware you have selected is compatible with the structural ceiling grid manufacturers. This is crucial to ensure that the fixture is securely mounted and that the hardware can support the weight of the fixture.

GRID TYPE	2X2	2X4	MOUNTING HARDWARE PER FIXTURE
STANDARD GRID	✓	✓	SEISMIC CLIPS, OPTIONAL SAFETY CABLE (BY OTHERS)
ARMSTRONG DYNAMAX	✓	✓	4-DYNAMAX Z-CLIPS
TATE GRID	✓	✓	4- TATE GRID Z-CLIPS
TATE DUO	✓	✓	TATE DUO Z-CLIPS
POLARY PICS	-	✓	4- POLARGY PICS HOLD DOWN CLIPS (BY OTHERS)
POLARGY PICS GLOBAL	-	✓	4-POLARGY PICS GLOBAL Z-CLIPS
GORDON DG 1.5	✓	✓	4-GORDON 1.5 Z-CLIPS
GORDON DG 3.0	✓	✓	4-GORDON 3.0 Z-CLIPS
GORDON DG X-SPAN	✓	✓	4-GORDON DG X-SPAN Z-CLIPS

MOUNTING INSTRUCTIONS (CONT.)

Step 5: Review Structural Grid Specifications
1. Familiarize yourself with the specifications provided by the structural grid manufacturer. These specifications will include:
- Maximum weight limits for fixtures
- Recommended spacing for mounting points
- Types of supports required for various fixtures

Step 6: Measure and Mark
1. Using a level, measure and mark the desired location for the fixture on the ceiling grid. Ensure that the mounting points align with the grid layout and comply with the manufacturer's specifications.

Step 7: Attach the Fixture
1. Carefully lift the fixture into position.
2. Ensure that the fixture is stable and properly aligned before you begin the wiring process. See page six for wiring installation.
3. Attach the fixture to the mounting brackets or directly to the ceiling grid as per the design. Ensure that it is securely fastened and level.

For Standard Grid: Bend seismic clips to grip the standard commercial grid application. Optional safety cable can be provided and added by the contractor. Follow grid ceiling specifications for supporting weights and lighting placement.
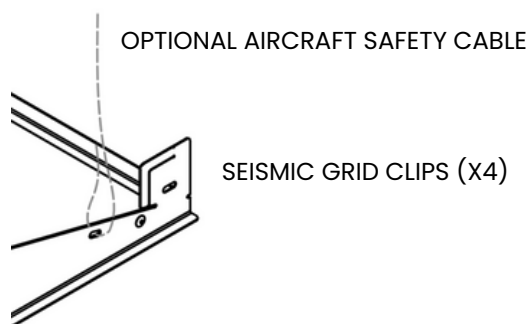
Step 9: Finalize Installation
1. Check that all connections are tight and that the fixture is stable.
2. Replace knockout cover and secure with saved screw and lock nut from step 3.

Step 10: Test the Fixture
1. Once installed, turn on the power to the fixture to ensure it operates correctly.
2. Check for any issues with balance or stability.

STANDARD GRID

OPTIONAL AIRCRAFT SAFETY CABLE

SEISMIC GRID CLIPS (X4)

STRUCTURAL GRID

STRUCTURAL GRID CLIPS (X4)

Front View   Back View
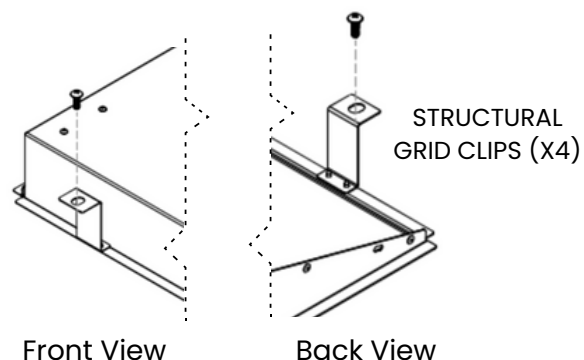
Maximum Emergency Mounting Height - 21 Feet

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WIRING INSTRUCTIONS

LINE VOLTAGE/LOW VOLTAGE
UNSWITCHED HOT (RED)
DIMMING
CONNECTIONS PER N.E.C. AND LOCAL CODE
INSIDE TROFFER INTEGRAL DRIVER BOX.

ACCESSIBLE KNOCKOUT COVER
GC TO UNSCREW LOCK NUT TO
TO ACCESS TO INTEGRAL WIRING

INTEGRAL BODINE EMERGENCY
BATTERY BSL10T3 (SELECT MODELS)

EMERGENCY TEST
BUTTON/LIGHT
(SELECT MODELS)

GC IS RESPONSIBLE FOR ON-SITE
SPLICING FOR LINE VOLTAGE AND
LOW VOLTAGE DIMMING

MAKE ELECTRICAL CONNECTIONS
ACCORDING TO LOCAL CODES
AND MANUFACTURER
GUIDELINES.

INTEGRAL – LINE VOLTAGE WIRING (FOLLOW FACTORY WIRING LABELS AS COLOR MAY DIFFER)

1. Connect the Ground Wire (Green or Bare Copper): Use a UL-certified connector to attach the ground wire from the fixture to the power source ground wire. Ensure the connection is secure and tight.
2. Connect the Neutral Wire (White): Connect the white wire from the fixture to the white wire in the junction box using UL-certified connectors.
3. Connect the Hot Wire (Black): Connect the black wire from the fixture to the black wire in the junction box using UL-certified connectors.
4. **If Emergency: An unswitched AC Power Source (Red) is required for the emergency battery wiring. Refer to wiring diagram.**

(For fixtures with integrated sensors, connect sensor wires to the appropriate wires from the controls source using UL-Certified connectors.)

REMOTE – LOW VOLTAGE WIRING (FOLLOW FACTORY WIRING LABELS AS COLOR MAY DIFFER)

1. Connect the Neutral Wire (Black): Connect the black wire from the fixture to the power source black wire using UL-certified connectors.
2. Connect the Positive Wire (Red): Connect the red wire from the fixture to the power source red wire using UL-certified connectors.

(For fixtures with integrated sensors, connect sensor wires to the appropriate wires from the controls source using UL-Certified connectors.)

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CLEANING & CARE

Maintaining the pristine condition and optimal performance of your Illucent Troffers involves regular cleaning and inspection. **Use of unapproved cleaners or improper care and maintenance will void the warranty.** See list of approved cleaning products.

<p style="text-align:center;color:red">NEVER ALLOW LIQUID TO PENETRATE THE FIXTURE!</p>

Cleaning Frequency
- Regular Maintenance: Clean the fixtures every three to six months. If they are in high-traffic or outdoor areas, consider more frequent cleaning to prevent dirt accumulation.

Maintenance & Cleaning Recommendations
- Use only non-abrasive cleaning tools to prevent scratching or damaging the surfaces.
- Avoid harsh chemicals and petroleum-based products: Do not use strong solvents or cleaners containing ammonia, alcohol, or acetone, as they can damage both acrylic and powder-coated finishes. Tip: If it can't touch your skin, it's not safe for powder-coated finishes.
- During cleaning, inspect for any signs of wear, such as cracks in the acrylic or peeling of the powder coating. Address any issues promptly to prevent further damage.
- Before applying any new cleaning solution, test it on a small, inconspicuous area to ensure it does not harm the finish.

Cleaning Acrylic & Powder-Coated Surfaces
1. Gently dust the acrylic surfaces using a microfiber cloth to prevent scratches.
2. Use an approved cleanser or prepare a solution of mild dish soap and warm water.
3. Dampen a soft cloth with the solution and gently wipe the acrylic. Avoid soaking the cloth to prevent water from seeping into electrical components.
4. Rinse with a clean damp cloth and dry immediately using a soft, dry cloth to avoid water spots.

Cleaning Powder-Coated Sheet Metal
1. Dust first using a dry microfiber cloth or soft brush to remove surface dust.
2. Use a listed approved cleaner or mild detergent mixed with warm water.
3. Gently wipe down the metal using a soft cloth or sponge. Rinse thoroughly with clean water to remove any soap residues.
4. Stubborn Stains: For more stubborn marks, allow the detergent to sit briefly before lightly scrubbing with a soft brush.

APPROVED CLEANSERS

Mild Dishwashing Liquid: Use a gentle solution for routine cleaning and to effectively remove grease and dirt.

Vinegar & Water: Dilute vinegar, one part vinegar to ten parts water for light cleaning.

Seventh Generation All-Purpose Cleaner: This cleaner is made with plant-based ingredients and is free from harsh chemicals, making it safe for various surfaces.

Better Life Natural All-Purpose Cleaner: Free from solvents and harsh chemicals, providing a gentle cleaning solution.

Ecover All-Purpose Cleaner: This eco-friendly cleaner uses biodegradable ingredients and avoids strong solvents, ammonia, and other harsh chemicals.

Mrs. Meyer's Clean Day Multi-Surface Everyday Cleaner: Formulated with plant-derived ingredients and free from harsh chemicals.

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