Marathon Lighting

Installation Guide

LED Lighting Fixture

SAVE THESE INSTRUCTIONS

BEFORE YOU BEGIN

Read and follow all safety instructions

⚠ WARNING

RISK OF FIRE, EXPLOSION AND ELECTRIC SHOCK

- This product should be installed, inspected, and maintained by a qualified electrician only, in accordance with the NEC (National Electric Code) and all local codes.
- Turn off electrical power before inspection, installation or removal.
- Use only UL (or other NTRL) approved wire for input/output connections.
- Minimum size 18 AWG or 14 AWG for continuous runs.
- Make sure LEDs and drivers are cool to touch when performing maintenance.
- Make sure the supply voltage is the same as the rated voltage of the luminaire.
- Do not install in a hazardous atmosphere, except where the ambient temperature does not exceed the rated operating temperature of the fixture.
- Keep tightly closed when in operation

Prepare Electrical Wiring

Electrical Requirements

- The LED driver mustbe supplied with the Voltage Specified in the parameter label and connected to an individual, properly grounded branch circuit protected by a 20 Ampere circuit breaker. Use min. 75°C supply.

Grounding Instructions

- The grounding and bonding of the overall system shall be done in accordance with NEC Article 600 and local codes

LED Linear Light Installation Guide

1. Position the fixture on a flat surface, lens side up. See **Figure 1.**
2. Gently press down on the center of the lens near one of the fixture end caps. Deflect the lens approximately 1" to reveal a limit bracket in the end cap. Slide the lens under the limit bracket. This will allow the opposite end of the lens to become free and lift out. See **Figure 2.**
3. Lift the opposite end of the lens and slide the lens out of the fixture. Set the lens aside for later use. See **Figure 3.**
4. Position the fixture in the desired location. Use the fixture as a template to mark the centers of the keyhole slots at both ends of the fixture. Remove the appropriate knockout for entry of supply wiring. See **Figure 4.**
5. Install customer supplied mounting screws appropriate for the mounting surface at the marked locations. Thread the screws into the mounting surface, but stop when the screw heads are approximately 1/4" from the surface. Pass the screw heads through the center holes in the keyholes and slide the fixture until the screws are positioned at one of the ends of the keyholes. Fully tighten the screws. See **Figure 5.**
6. Bring the supply lead into the fixture and wire per the appropriate **Electrical Connections** section.
   NOTE: If using the occupancy sensor accessory, please refer to Occupancy Sensor Accessory section for installation and programming of occupancy sensor before proceeding to the Electrical Connection section.
7. Select desired wattage and CCT on driver. See **Figure 6.**
8. Reinstall the lens by inserting one end of the lens into either fixture end cap. Gently press down on the center of the lens near the end cap to deflect it about 1", allowing it to clear the limit bracket. Slide the lens as far as possible into the end cap, keeping the lens under the limit bracket. Fit the opposite end of the lens into the fixture. See **Figure 7.**
9. Once the lens is fully fitted in the fixture, slide the lens towards the opposite end of the fixture to lock the lens in place. See **Figure 8.**
10. Supply power to fixture.

FIGURE 1

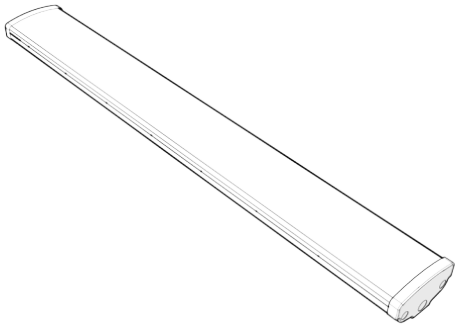


FIGURE 2

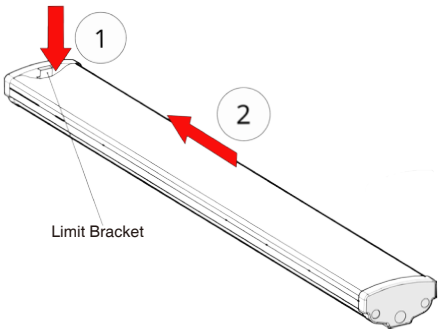


FIGURE 3

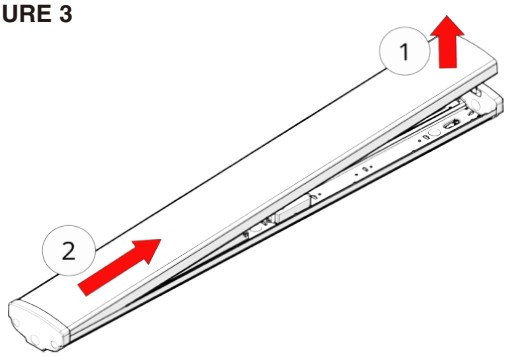
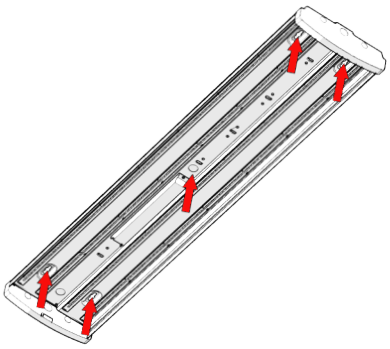


FIGURE 4



LED Linear Light Installation Guide

1. Position the fixture on a flat surface, lens side up. See **Figure 1.**
2. Gently press down on the center of the lens near one of the fixture end caps. Deflect the lens approximately 1” to reveal a limit bracket in the end cap. Slide the lens under the limit bracket. This will allow the opposite end of the lens to become free and lift out. See **Figure 2.**
3. Lift the opposite end of the lens and slide the lens out of the fixture. Set the lens aside for later use. See **Figure 3.**
4. Remove the appropriate knockouts at the ends of the fixture for pendant attachment points. See **Figure 9.**
5. Attach customer supplied 1/2" conduit to support the fixture at both ends.
   NOTE: Conduit spacing should be 43-19/64" (1100 mm) on center.
6. Secure the fixture to the conduit using (2) customer supplied conduit locknuts per conduit location. On each conduit section, one locknut should be positioned on top of the fixture and one inside the fixture. See **Figure 10.**
7. Route the supply leads through one of the pieces of conduit and into the fixture. Wire the fixture per the appropriate **Electrical Connections** section.
   NOTE: If using the occupancy sensor accessory, please refer to Occupancy Sensor Accessory section for installation and programming of occupancy sensor before proceeding to the Electrical Connection section.
8. Select desired wattage and CCT on driver. See **Figure 6.**
9. Reinstall the lens by inserting one end of the lens into either fixture end caps. Gently press down on the center of the lens near the end cap to deflect it about 1”, allowing it to clear the limit bracket. Slide the lens as far as possible into the end cap, keeping the lens under the limit bracket. Fit the opposite end of the lens into the fixture. See **Figure 7.**
10. Once the lens is fully fitted in the fixture, slide the lens towards the opposite end of the fixture to lock the lens in place. See **Figure 8.**
11. Supply power to fixture.

OCCUPANCY SENSOR ACCESSORY (Requires use of C-ACC-MW-L Accessory)

NOTE: When the occupancy sensor is used, dimming is controlled by the occupancy sensor.

1. Remove one 1/2" knockout from the end cap at the selected end of the fixture.
2. Mount the sensor to the end cap by passing the sensor wires and threaded nipple through the 1/2" knockout opening. Secure the sensor in place using the conduit nut on the nipple inside the fixture end cap.
3. Refer to instructions included with sensor for setting dip switches to program sensor

FIGURE 5

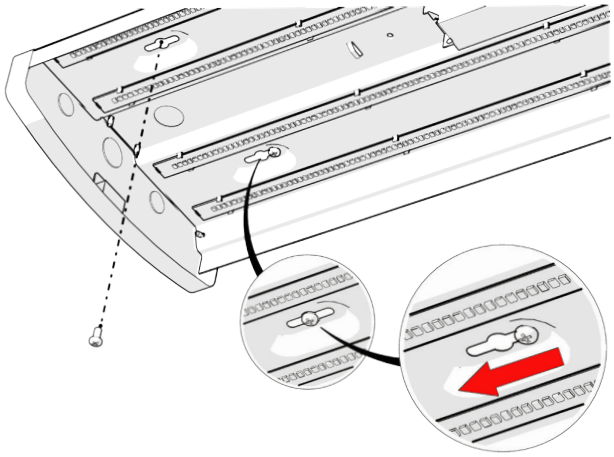


FIGURE 6

LED Driver Wattage Selector		
Switch Position		
HI.	ME.	LO.
55W	40W	26W

LED Driver CCT Selector		
Switch Position		
5000K	4000K	3000K

NOTE: Factory settings are 55W , 4000K

FIGURE 7

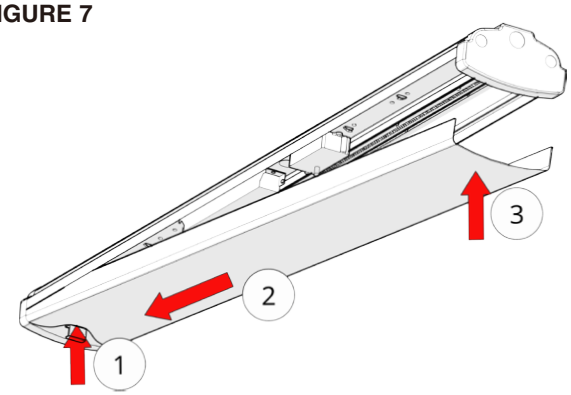


FIGURE 8

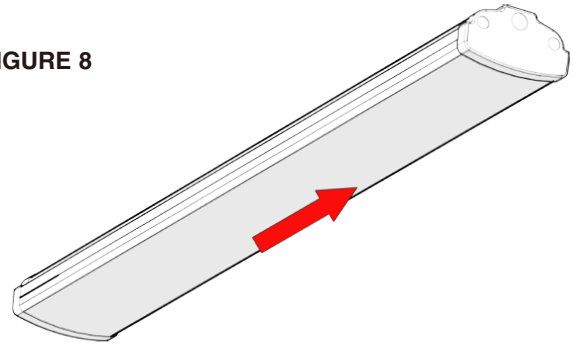


FIGURE 9

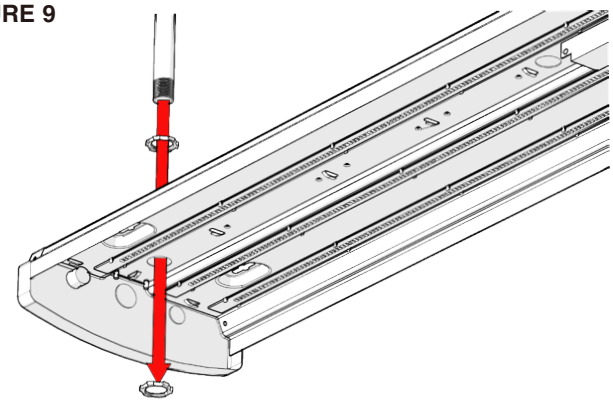
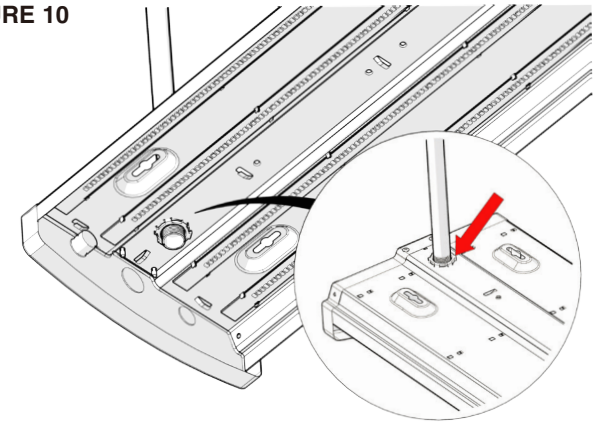


FIGURE 10



EMERGENCY DRIVER CHECK (For Luminaires Equipped With Emergency Driver)

NOTE: Emergency driver and AC driver must be fed from the same branch circuit.

NOTE: For short-term testing of the emergency function, the battery must be charged for at least one hour. The emergency driver must be charged for at least 24 hours before conducting a long-term test.

STEP 1:
When AC power is applied, the charging indicator light is illuminated, indicating the battery is being charged. When power fails, the emergency driver automatically switches to emergency power, operating the LED array. When AC power is restored, the emergency driver returns to the charging mode.

STEP 2:
Although no routine maintenance is required to keep the emergency driver functional, it should be checked periodically to ensure that it is working. The following schedule is recommended:

- Visually inspect the charging indicator light monthly. It should be illuminated.
- Test the emergency operation of the fixture at 30-day intervals for a minimum of 30 seconds. When the test switch is depressed, the LED array should operate.
- Conduct a 90-minute discharge test once a year. The LED array should operate for at least 90 minutes.

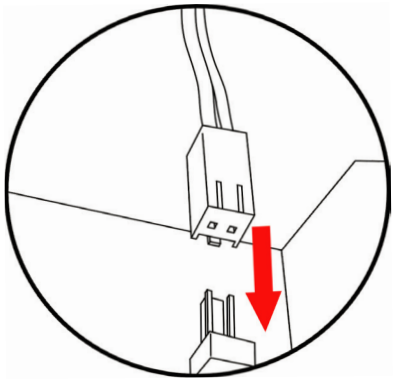
If the fixture fails any of these checks, consult service personnel.

EM Test Button Status Light Indicator

- Charging - red light on
- EM discharging - red light off
- EM damaged - red light off/red light flashing/fixture flashing
- Test switch button pressed - red light off

REFER ANY SERVICING INDICATED BY THESE CHECKS TO QUALIFIED PERSONNEL
EMERGENCY DRIVER AND AC DRIVER MUST BE FED FROM THE SAME BRANCH CIRCUIT.

FIGURE 11



FCC NOTICE

CAUTION: Changes or modifications not expressly approved could void your authority to use this equipment.

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 equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.
CAN ICES-005 (A)/NMB-005 (A)

ELECTRICAL CONNECTIONS-
No Emergency Driver, No Occupancy Sensor

Make the following Electrical Connections:

a. Connect the black fixture lead to the voltage supply lead (Hot 1 for 208/240V wiring).

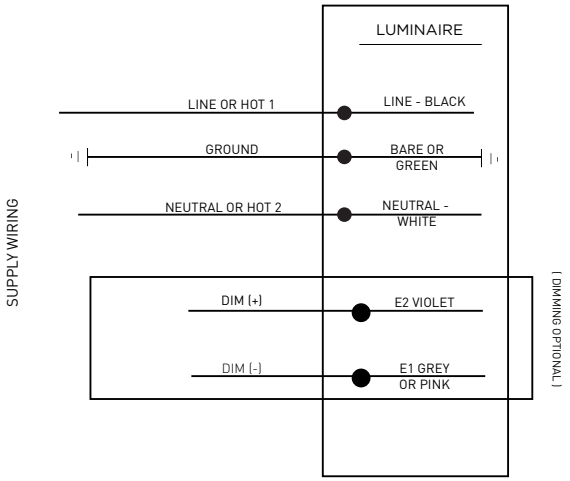
b. Connect the white fixture lead to the neutral supply lead (Hot 2 for 208/240V wiring).

c. Connect the green ground lead to the supply ground lead.

d. If 0/1-10V Dimming is used, connect the violet fixture lead to the supply positive dimming lead. For dimming, use Class 1 wiring methods only. If dimming is not being used ensure to cap off the violet lead.

e. If 0/1-10V Dimming is used, connect the grey or pink fixture lead to the supply negative dimming lead. For dimming, use Class 1 wiring methods only. If dimming is not being used ensure to cap off the grey or pink lead.

Tuck all wires carefully into wiring chamber ensuring that no wires are pinched.



ELECTRICAL CONNECTIONS-
Occupancy Sensor, No Emergency Driver

Make the following Electrical Connections:

STEP 1: (Connecting the Occupancy Sensor)

a. Connect the black fixture lead to the red lead from the occupancy sensor.

b. Connect the violet fixture lead to the violet lead from the occupancy sensor.

c. Connect the grey or pink fixture lead to the grey or pink lead from the occupancy sensor.

STEP 2:

a. Connect the black lead from the occupancy sensor to the voltage supply lead.

b. Connect the white fixture lead and the white lead from the occupancy sensor to the neutral supply lead (Hot 2 for 208/240V wiring).

c. Connect the ground bare or green lead to the supply ground lead.

Tuck all wires carefully into wiring chamber ensuring that no wires are pinched.