

### ! CAUTION

- All wiring should be done by a licensed electrician in accordance with state codes, local codes, and National Electric Code (NEC) standards or International Electric Commission (IEC) standards.
- Improper installation may result in serious injury and void warranty.
- Contains parts and assemblies susceptible to damage by electrostatic discharge (ESD).
- If the external flexible cable or cord of this luminaire is damaged, it shall be replaced with a cord with equivalent markings and ratings or a cord exclusively available from the manufacturer.
- The light source contained in this luminaire shall only be replaced by the manufacturer or his service agent or a similar qualified person.
- To reduce the risk of strangulation the flexible wiring connected to this luminaire shall be effectively fixed to the wall if the wiring is within arm's reach.
- Ensure control circuits (dimming circuits) are adequately separated from primary circuits (incoming AC supply circuit) when installing control devices or control wiring.
- CAUTION To reduce the risk of ignition of hazardous atmospheres, disconnect the luminaire from the supply circuit before opening. Keep tightly closed when in operation.
- To prevent the risk of electric shock, ensure supply circuit is deenergized prior to installing or servicing luminaire.

### Installation

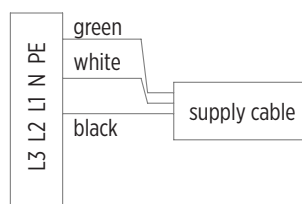
LRMC is designed and constructed for commercial marine and damp location recessed mount ceiling applications. The fixture should be mounted in a downward orientation only. Maximum mounting height for the 2 ft luminaire: 26.18 ft. Maximum mounting height for the 4 ft luminaire: 27.33 ft.

1. Remove lens and trim cover from fixture by unscrewing single cover screw (retain thumb screw).
2. Remove any tape holding down the trim cover lanyards or wingnuts on the tray.
3. Place 1x2 ft or 1x4 ft luminaire inside (DAMPA) 300mm suspended ceiling grid and secure to cross beam using minimum 4 x ¼ inch bolts, nuts, and washers (supplied by others). See dimensional drawings below for details.
4. For in-line wiring, route cable through fitting and luminaire using ½ inch or ¾ inch knock out in housing.
5. Once luminaire is secure inside ceiling, twist wing nuts ¼ turn counterclockwise to release the driver tray from the housing (See Figure 1).
6. Connect power supply leads to terminal block mounted to back side of LED tray.
7. Reattach tray using wing nuts and affix lens and trim cover to housing.
8. Tighten cover screw to secure lens and trim cover.

### Wiring

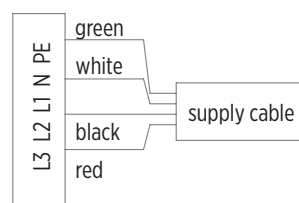
Electrical fittings and connectors appropriate for the application and in compliance with accepted codes must be used. For supply connections, use supply cords of at least 16-18 AWG or with a minimum cross-sectional area 1.0 mm<sup>2</sup> - 1.5 mm<sup>2</sup> with an outer diameter in range of 5mm-9mm. Use SJOW, SJTOW, SOOW, SJOOW, STOW, or SOW cable with minimum 90°C rating.

#### Terminal Block



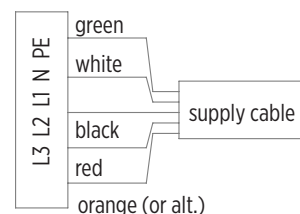
**White (standard)**

#### Terminal Block



**White/Red or White EMB**

#### Terminal Block



**White/Red with EMB**

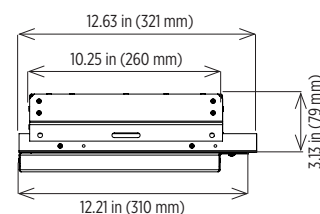
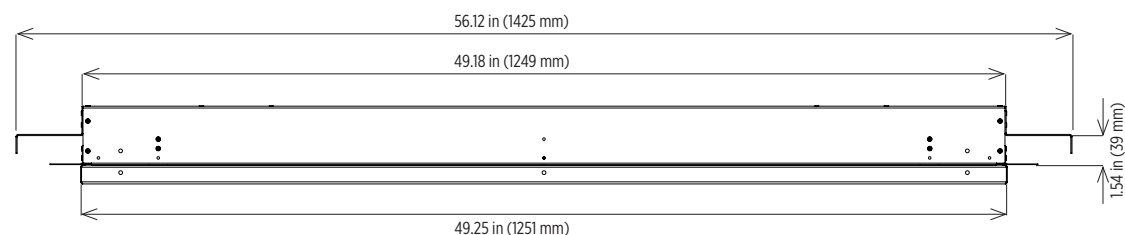
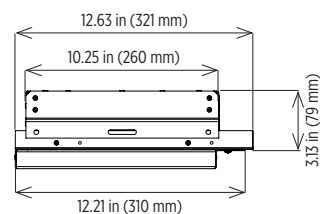
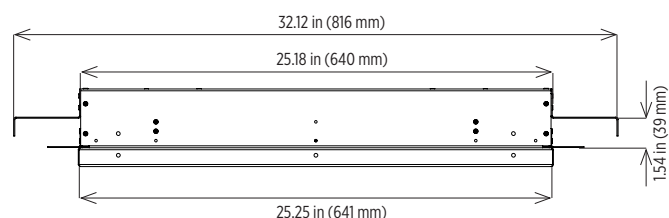


Fixture comes standard with two ½ inch and two ¾ inch knockouts in housing. Any cord grips or strain relief connectors will be supplied by others. Phoenix recommends conduit or bushing that adheres to the following sizes:

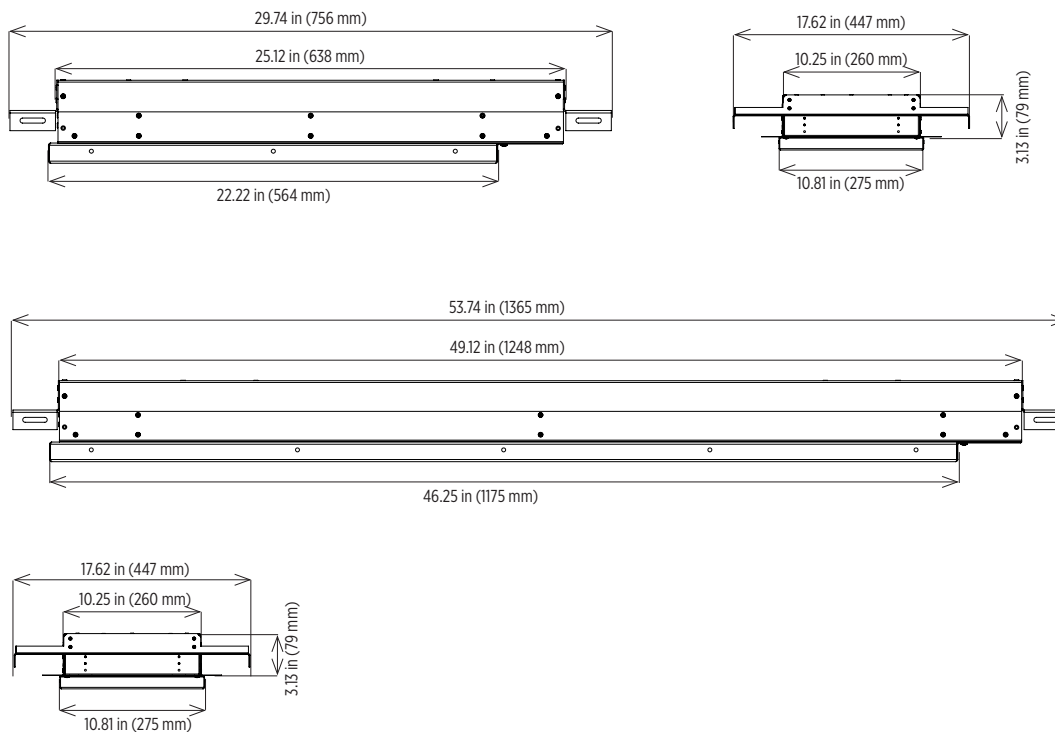
**Figure 1**

Trade size of conduit		Knockout or hole diameter	Bushing dimensions	
Nominal size	Outside diameter		Overall diameter	Height
1/2	0.839	7/8	1	3/8
3/4	1.051	1.094	1.234	27/64

### Parallel Model Dimensions - Inch (mm)



### Perpendicular Model Dimensions - Inch (mm)



## ! IMPORTANT SAFEGUARDS

- To prevent high voltage from being present on driver output leads prior to installation, inverter connector must be open. Do not join inverter connector until installation is complete and AC power supply is connected to the emergency driver.
- To reduce risk of shock, disconnect both normal and emergency power supplies and inverter connector of the emergency driver before servicing fixture.
- Do not attempt to service battery alongside emergency driver.
- When using electrical equipment, basic safety precautions should always be followed including the following:

## READ AND FOLLOW ALL SAFETY INSTRUCTIONS.

- Do not use outdoors.
- Do not mount near gas or electric heaters.
- Equipment should be mounted in locations and at heights where it will not be subjected to tampering by unauthorized personnel.
- The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition.
- Do not use this equipment for other than its intended use.

## SAVE THESE INSTRUCTIONS.



### EMB Operation and Maintenance

Periodic maintenance and cleaning is required to keep light fixture in peak operating condition. Buildup of dirt and/or debris will diminish performance, lead to premature failure and void the fixture's warranty.

1. Completing installation:  
When the installation is complete, verify all necessary connections have been made. Switch the AC power on and join the battery pack connector.
2. Operation:  
Normal Mode: AC power is present. The AC driver operates the LED load as designed. The emergency pack is charging in a standby mode. The test button will be lit, showing that the battery is charging. When battery is fully charged, test button will remain lit.

Emergency Mode: When the AC power goes out, the emergency pack detects the power outage and automatically switches to the emergency mode. The LED load is illuminated for a minimum of 120 minutes. The test button will not be lit. When AC power is restored, the emergency pack switches back to normal mode and starts re-charging. If emergency driver detects battery failure, due to problems such as bad contact or charging issues, the test button will not be lit. Please contact a qualified electrician for inspection.

3. Testing procedures:  
Press the test button to cut the power to the AC driver and switch the system to emergency mode. Release the test button to return to normal mode. Switch off the circuit breaker to simulate a full power outage. For initial testing, allow the unit to charge approximately 1 hour, then conduct a short discharge test. Allow a 24-hour charge before conducting a one-hour test. **Note:** Battery is rechargeable LiFePO4 type and must be recycled or disposed of properly when reaching end of life.

NFPA 101, Life Safety Code outlines the following schedule:

Monthly: Ensure that the test button light is illuminated. Conduct a 30-second discharge test by depressing the test button. The LED load should operate at reduced output.

Annually: Ensure that the test button is illuminated. Conduct a full 90-minute discharge test. The unit should operate as intended for the duration of the test.

