



# INSTALLATION, OPERATION AND MAINTENANCE INSTRUCTIONS

## LE451 LED LIGHT FIXTURE:

### FOR USE IN HAZARDOUS LOCATIONS

**Class I Div. 2 Groups A, B, C and D; Class II Div. 2 Groups F and G; Class III**

#### **WARNING!**

1. TO PREVENT THE RISK OF ELECTRICAL SHOCK DEACTIVATE/DISCONNECT THE POWER SUPPLY BEFORE INSTALLING OR RELAMPING FIXTURE.
2. THE DRIVER IN THIS FIXTURE IS DESIGNED TO OPERATE ON GROUNDED NEUTRAL SYSTEMS ONLY.
3. THIS FIXTURE SHOULD BE INSTALLED BY QUALIFIED TECHNICIANS IN STRICT ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND ANY LOCAL REQUIREMENTS.

#### **OPERATIONAL DATA**

Operate this fixture at its rated voltage. See fixture label for data. Do not install where the marked operating temperature exceeds the ignition temperature of the hazardous atmospheres.

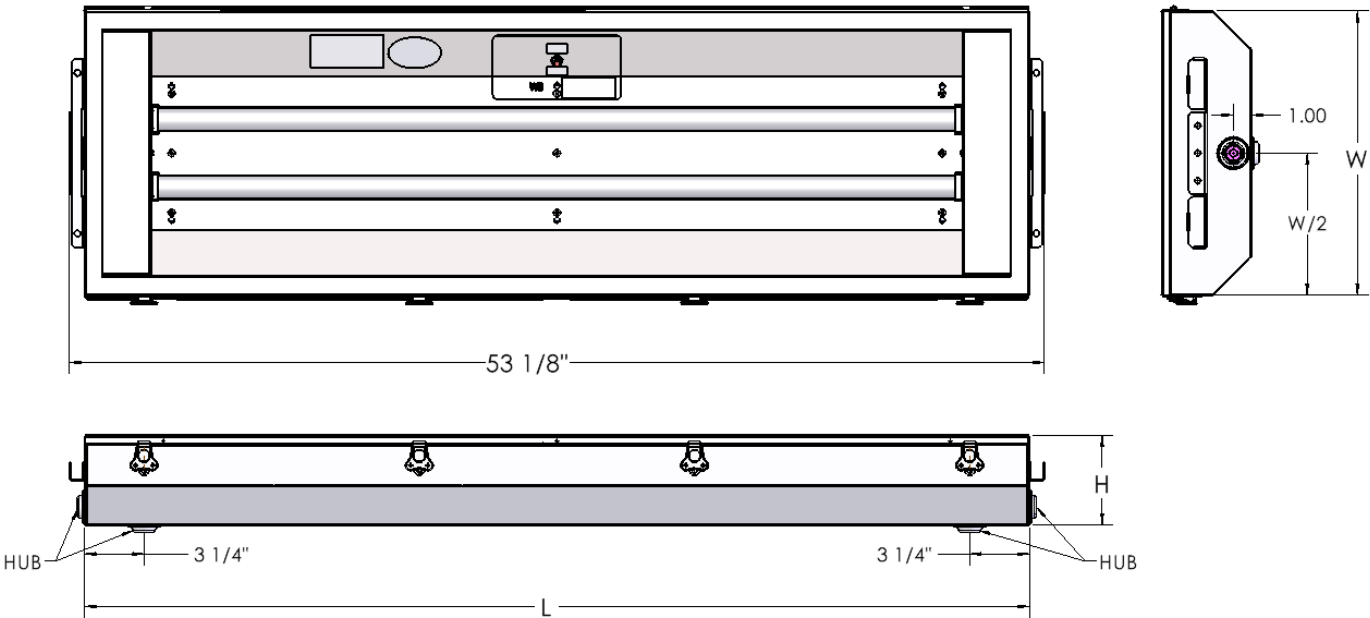
#### **INSTALLATION NOTES**

1. Before installing, make sure the circuit is deactivated.
2. The power supply in this fixture is designed to operate on grounded neutral systems only.
3. Wire fixture through hub(s) and install 1/2" plug(s) in ALL unused conduit hub(s)
  - a. NOTE: Lubricate ALL threads with petrolatum
4. Schematics are shown below.
  - a. NOTE: For ALL D1 fixtures (0-10V dimming) - To avoid any interference, the dimming leads MUST be contained in conduit separate from the line voltage or power leads

**Fixture Dimensions:**

- Conduit hubs are 1/2"NPT

Source	Width	Length	Height
43/62 (1 Row)	12 3/16"	51 1/2"	5 5/16"
100/120 (2 Row)	16 3/16"		
140/180 (3 Row)	20 11/16"		



# **MOUNTING OPTIONS**

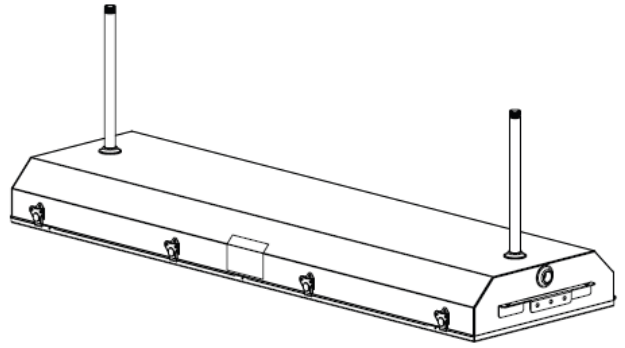
## **Pendant**

Conduit provided by others

Fixture is suspended with 1/2" electrical conduit attached to the hubs on the top (back) of the fixture at both end.

Lubricate all threads with petrolatum

45" between Conduit - (Center to Center)

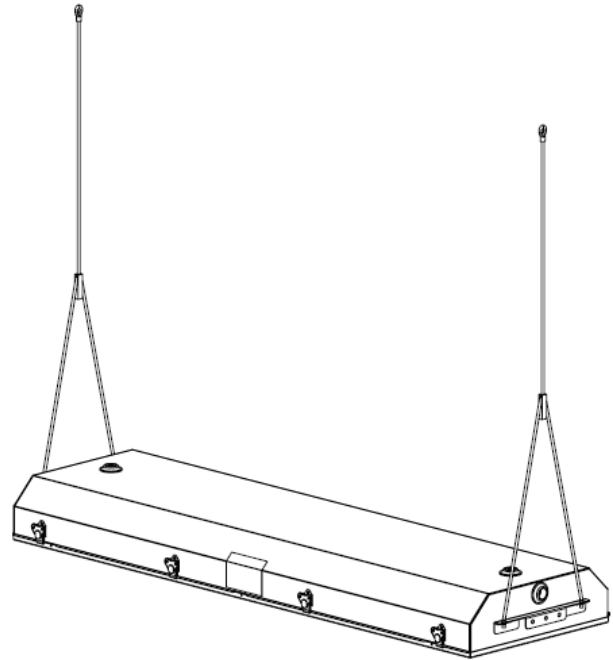


## **Cable Hang Kit**

QTY 2 cables with toggle ends and QTY 2 self locking gripples

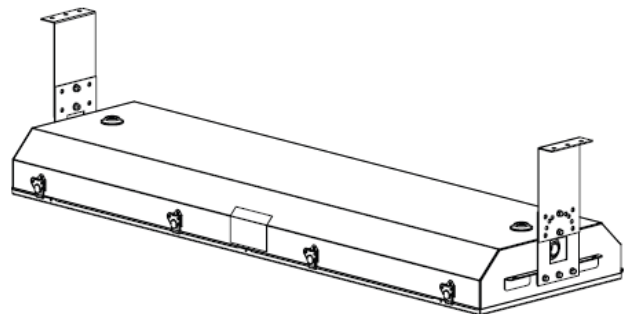
52 1/4" between chains - (Center to Center)

LDPI P/N: 6875



## **Adjustable Surface Mounting Bracket Kit**

Bracket attachment point for multiple mounting angles

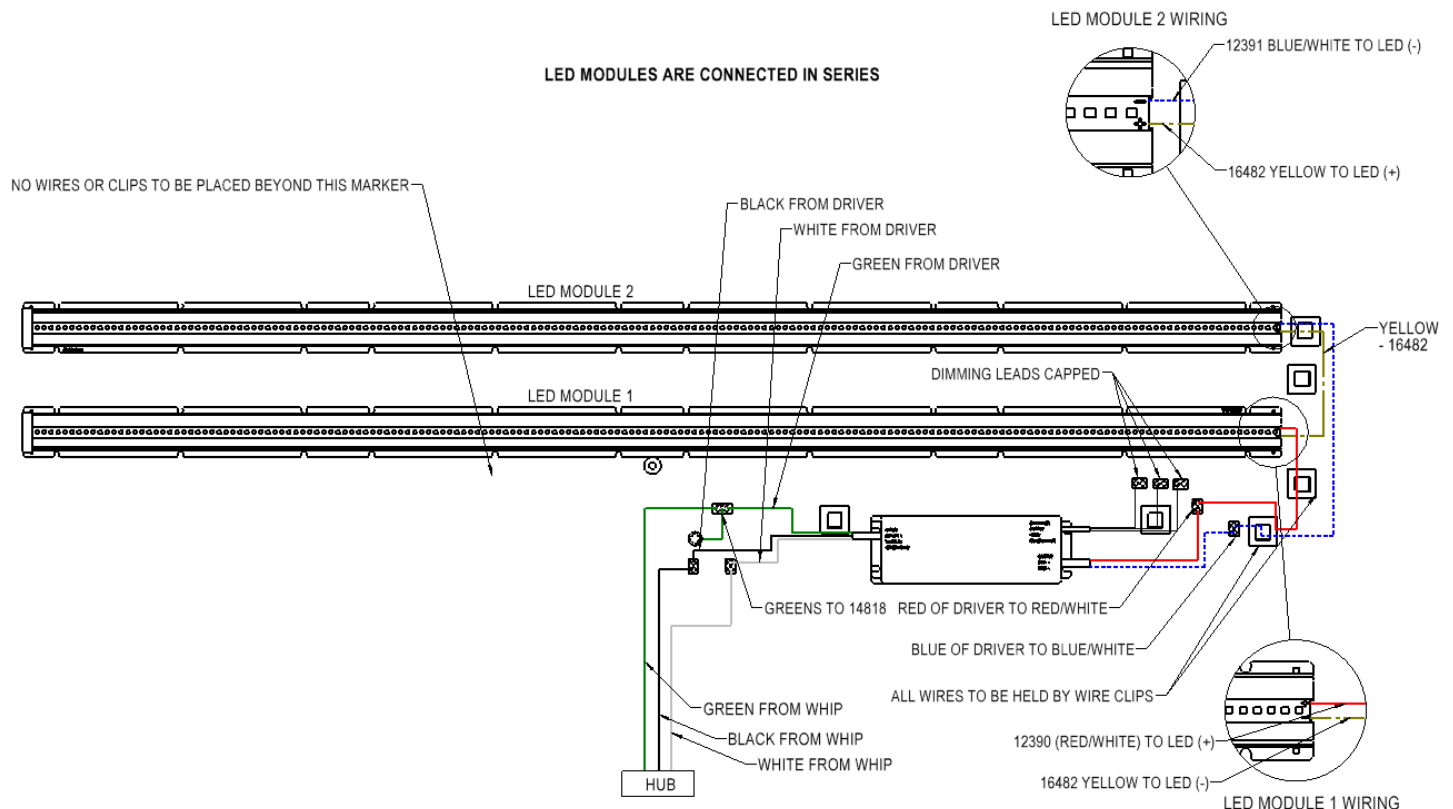


## MAINTENANCE DATA

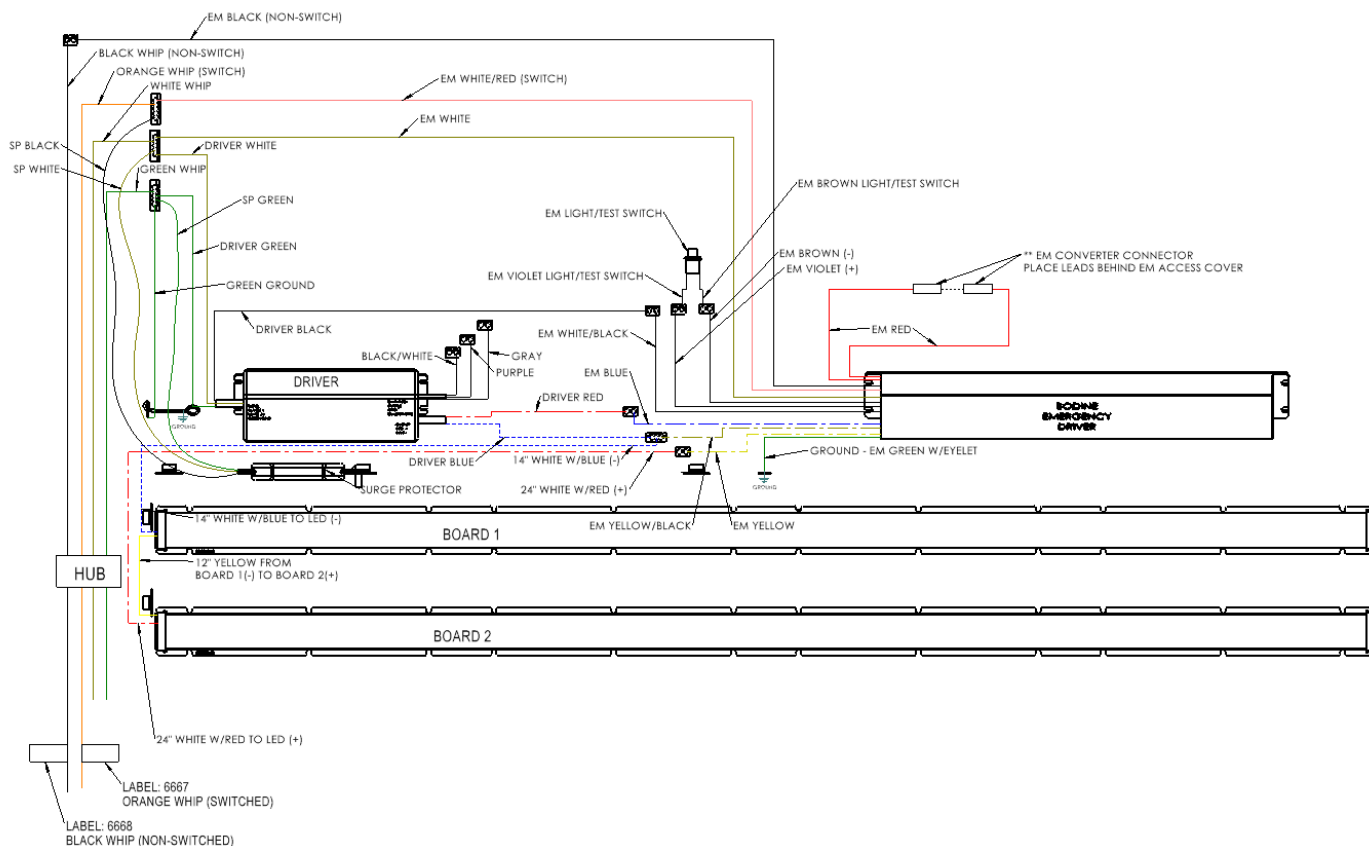
1. Although no routine maintenance is required to keep this fixture functional, it should be checked periodically to ensure that it is working properly and to look for any external damage.
2. For optimum performance, keep light transmission parts of fixture clean. Any commercial glass cleaner can be used to clean the glass.
3. In the event of glass breakage, it will be necessary to replace the damaged glass frame assembly, in order to maintain the integrity of the fixture.
4. To replace module: Disconnect supply circuit. Remove necessary fasteners from glass lens frame. Remove lens frame and set aside. Remove reflectors and center cover - hex flange nut 7/16" drive. The modules will be loose once the flange nuts are removed. Once the LED module is free flip it over and use a small flathead screwdriver or a like tool to depress the wire release and pull out the wires connecting the LED module. The optic and end caps from module can be re-used, or more ordered if necessary. Remove old module and dispose of properly. Install new LED module. Connect wires red to (+) blue to (-), schematic below. Flange of LED module is to be covered and held in place by the steel center cover and reflectors. Re-attach glass lens frame with necessary fasteners. Make sure all fasteners are secured tightly to ensure that the proper gasket compression is achieved.

Basic Schematics below:

**\*\*Note - Basic Schematic - LE451 2 ROW (100/120)\*\***



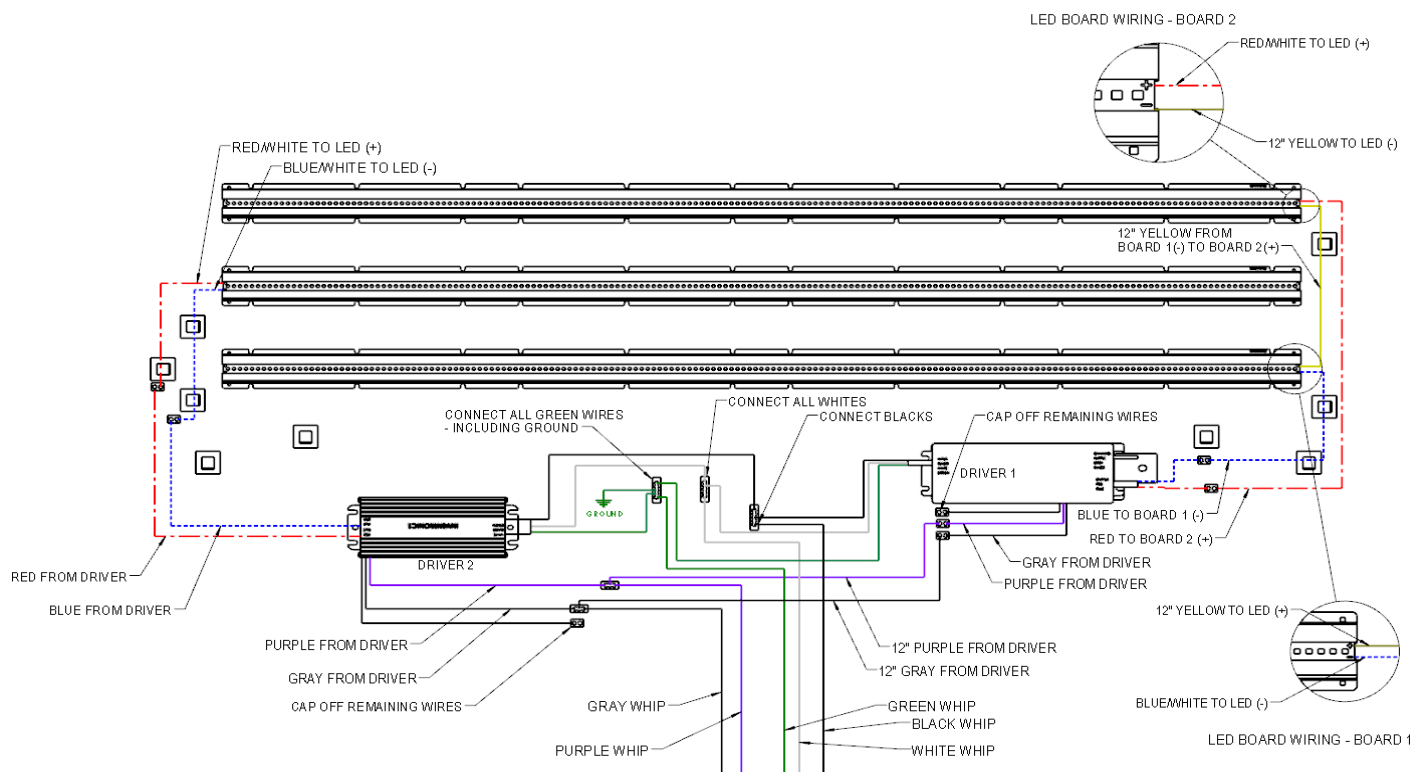
**\*\*Note - Emergency Schematic - LE451 2 ROW (100/120)\*\***



**\*\*Note - Schematic - LE451 3 ROW (140/180)\*\***

**\*\*DIMMING ONLY PRESENT WHEN D1 OR D2 OPTION IS SELECTED\*\***

**\*\*\*0-10V Dimming Leads MUST be separated from the power leads to avoid interference\*\*\***



**\*\*Note - Emergency Schematic LE451 3 ROW (140/180)\*\***

