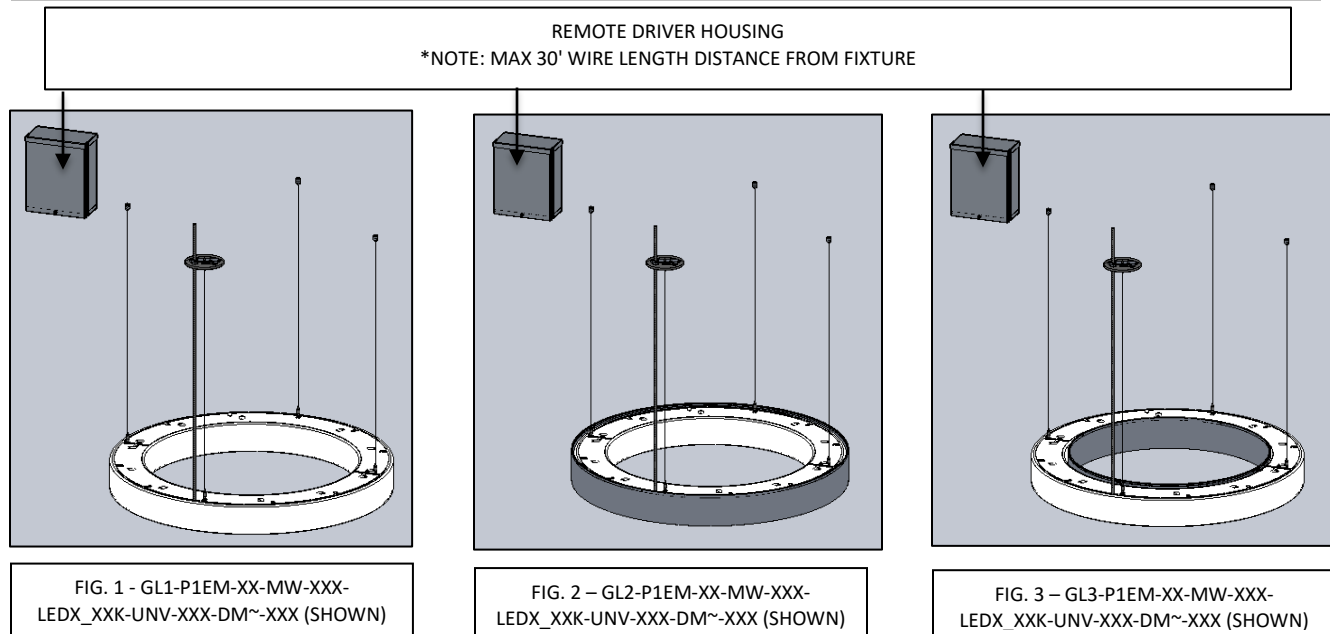


## INSTALLATION INSTRUCTIONS

### GLOWRING PENDANT WITH P1EM HANGING SYSTEM

These instructions cover the GLOWRING luminaire with the following options:

SERIES	HANGING SYSTEM	SIZE	LIGHT SOURCE	CONTROL	WIRE DIAGRAM
1. GL1(GLOWRING)  2. GL2(GLOWRING OUTER TRIM)  3. GL3(GLOWRING INNER TRIM)	P1EM: PENDANT WITH VERTICAL AIRCRAFT CABLES TO SEPARATE MOUNTING POINTS AND POWER CORD TO CANOPY (REMOTE DRIVER)	24"	STATIC WHITE	0-10V DIM 1% (DM1)	WIRE DIAGRAM A ON PAGE 5
		36"	STATIC WHITE	0-10V DIM 1% (DM1)	WIRE DIAGRAM A ON PAGE 5
		48"	STATIC WHITE	0-10V DIM 1% (DM1)	WIRE DIAGRAM A ON PAGE 6
		60"	STATIC WHITE	0-10V DIM 1% (DM1)	WIRE DIAGRAM A ON PAGE 7
		72"	STATIC WHITE	0-10V DIM 1% (DM1)	WIRE DIAGRAM B ON PAGE 7



#### GENERAL NOTES:

- PLEASE COMPLETELY READ THE INSTALL INSTRUCTIONS BEFORE STARTING INSTALLATION.
- INSTALL IN ACCORDANCE WITH ALL LOCAL, STATE AND NATIONAL CODES CONSULT WITH A QUALIFIED ELECTRICIAN FOR PROPER INSTALLATION.
- CAREFULLY UNPACK ALL CONTENTS; SOME COMPONENTS MAY HAVE BEEN SHIPPED IN SEPARATE BOXES. MOST FIXTURES ARE SHIPPED PARTIALLY ASSEMBLED. SOME UNASSEMBLY MAY BE REQUIRED FOR INSTALLATION.
- REMOTE MOUNTING DRIVERS - OCL RECOMMENDS: MAX 30' WIRE LENGTH DISTANCE FROM FIXTURE FOR NON-DIMMING AND DM1. MAX 10' WIRE LENGTH REMOTE DISTANCE FOR LUTRON. ENCLOSURE SHOULD REMAIN ACCESSIBLE AFTER INSTALLATION.
- DO NOT LET THE GLOWRING LUMINAIRE HANG FREE UNTIL ALL THE AIRCRAFT CABLES ARE SECURED AND EVENLY TENSIONED.
- KEEP HANDS AWAY FROM THE SILICONE DIFFUSER. DO NOT TOUCH IT AT ALL TIMES.
- FIXTURE POWER CORD WIRES ARE LOW-VOLTAGE. DO NOT CONNECT TO LINE VOLTAGE OR DAMAGE TO THE FIXTURE WILL OCCUR AND WARRANTY WILL BE VOIDED.

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### GENERAL INFORMATION:

You will receive the following with each GLOWRING series pendant fixture:

1. GLOWRING LUMINAIRE. (Pre-assembled as shown in FIG. 4)
2. REMOTE DRIVER BOX WITH DRIVER INSTALLED (as shown in FIG. 5)
3. INSTALLATION INSTRUCTIONS (shown in FIG. 6) - Please completely read the install instructions before starting installation.
4. RED BAG (shown in FIG. 6)
  - a. CANOPY (shown in FIG. 7)
  - b. MOUNTING KIT (as shown in FIG. 8)
    - i. FOUR (4) AIRCRAFT CABLES
    - ii. STRAIN RELIEF
    - iii. THREAD ROD
    - iv. MOUNTING BRACKET
    - v. THREE (3) CEILING COUPLER (CC)
    - vi. SLIP RING COUPLER (SRC)

**WARNING: Examine all components for any damage before beginning installation.**

**WARNING: This fixture should be installed by a licensed electrician only.**

**WARNING: Be careful not to scratch or damage any finished parts.**

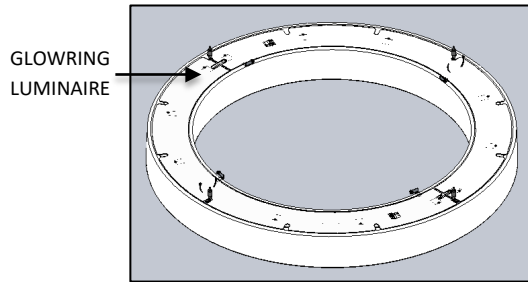


FIG. 4 GLOWRING LUMINAIRE  
(PRE-ASSEMBLED)

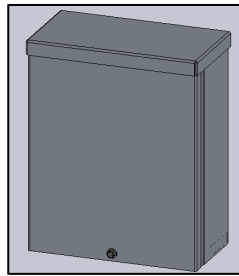


FIG. 5 - REMOTE DRIVER BOX  
WITH DRIVER INSTALLED



FIG. 6 RED BAG AND  
INSTALLATION  
INSTRUCTIONS



FIG. 7 MOUNTING KIT & CANOPY

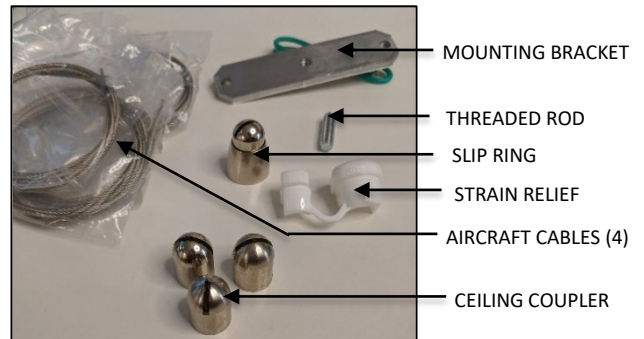


FIG. 8 MOUNTING KIT CONTENTS

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### REMOTE DRIVER MOUNTING:

1. Shut off power.
2. Remove the lid of the REMOTE DRIVER HOUSING as shown in FIG. 9.
3. Mount the REMOTE DRIVER HOUSING to code in a location that is 30 feet or less from the FIXTURE BODY and is accessible after installing. Max wire length is 30ft measured from the FIXTURE BODY to the DRIVER.
4. Using the knockout holes at the bottom of the remote box, run conduit into the remote box for the building supply wires (line voltage) and conduit out of the remote box for the fixture wire (low voltage). Conduit, adapters and wires are supplied by other.

**NOTE: Do not run Line Voltage and Low Voltage wires in the same conduit.**

5. Depending upon the size of the fixture (see WIRE DIAGRAM TABLE on Page 5 for correct Wire Diagram) run (1) set of positive and negative 16 or larger gauge wire (by others) or (2) set of positive and negative 16 or larger gauge wire (by others) from the REMOTE DRIVER HOUSING to the junction box the fixture will mount to (by others). Inside the REMOTE DRIVER HOUSING, connect:
  - Driver 1 LED output (+) and positive 16 or larger gauge wire (1<sup>st</sup> set).
  - Driver 1 LED output (-) and negative 16 or larger gauge wire (1<sup>st</sup> set).
  - Driver 2 LED output (+) and positive 16 or larger gauge wire (2<sup>nd</sup> set).
  - Driver 2 LED output (-) and negative 16 or larger gauge wire (2<sup>nd</sup> set).
  - Dimming wires as shown on the driver in FIG. 10 and FIG. 11 below.

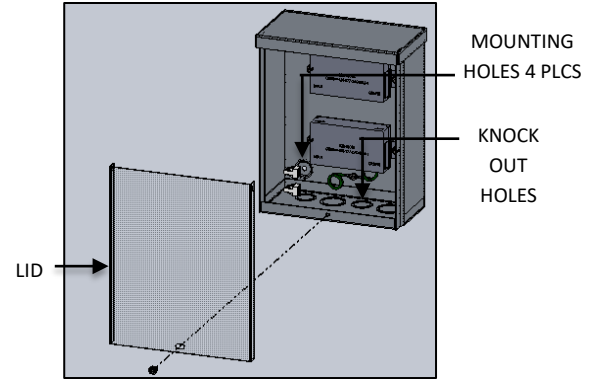


FIG. 9 – REMOTE DRIVER BOX INSTALLATION

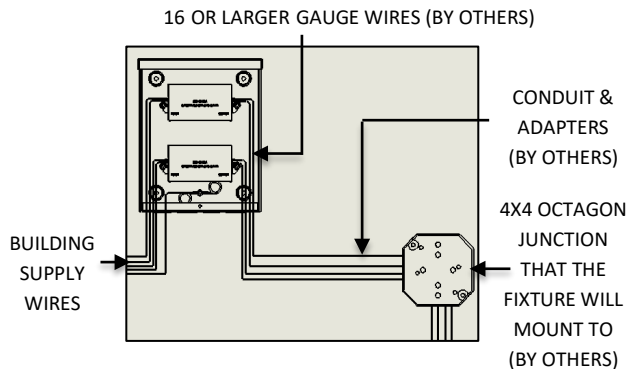


FIG. 10 – TWO DRIVER REMOTE BOX SETUP FOR 24" & 36" SERIES

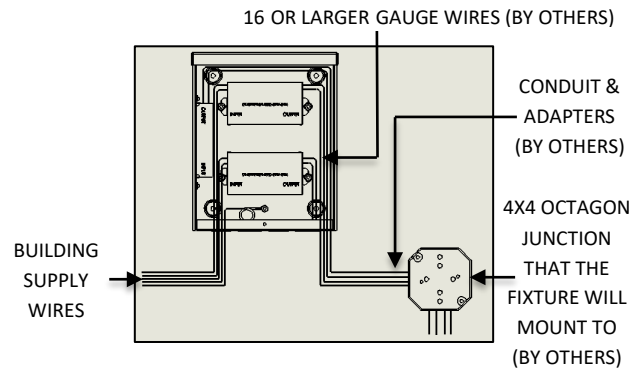


FIG. 11 – THREE DRIVER REMOTE BOX SETUP FOR 48" SERIES

- Driver 3 (if applicable) LED output (+) and positive 16 or larger gauge wire (3<sup>rd</sup> set).
- Driver 3 (if applicable) LED output (-) and negative 16 or larger gauge wire (3<sup>rd</sup> set).
- Driver 4 (if applicable) LED output (+) and positive 16 or larger gauge wire (4<sup>th</sup> set).
- Driver 4 (if applicable) LED output (-) and negative 16 or larger gauge wire (4<sup>th</sup> set).

- Dimming wires as shown on the driver in FIG. 12.

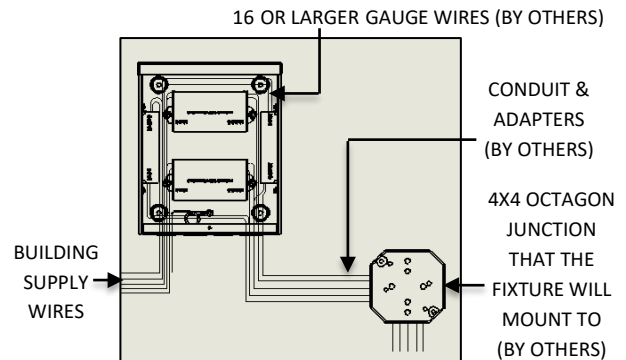


FIG. 12 – FOUR DRIVER REMOTE BOX SETUP FOR 60" & 72" SERIES

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1. Connect building supply wires to the driver. See WIRE DIAGRAM TABLE below for correct WIRE DIAGRAM. and wire connections. Make all wire connections in accordance with the national electrical code and all applicable local and state codes. Install the lid on the remote driver housing once connections are done.

WIRE DIAGRAM TABLE						
SERIES	HANGING SYSTEM	BODY SIZE	LIGHT SOURCE	LED OUTPUT	CONTROL	WIRE DIAGRAM
1. GL1(GLOWRING)	P1EM	24"	STATIC WHITE	LED1	0-10V DIM 1% (DM1)	WIRE DIAGRAM A ON PAGE 5
				LED2		
2. GL2(GLOWRING OUTER TRIM)	P1EM	36"	STATIC WHITE	LED1	0-10V DIM 1% (DM1)	WIRE DIAGRAM A ON PAGE 5
				LED2		
3. GL3(GLOWRING INNER TRIM)	P1EM	48"	STATIC WHITE	LED1	0-10V DIM 1% (DM1)	WIRE DIAGRAM B ON PAGE 6
				LED2		
3. GL3(GLOWRING INNER TRIM)	P1EM	60"	STATIC WHITE	LED1	0-10V DIM 1% (DM1)	WIRE DIAGRAM C ON PAGE 7
				LED2		
3. GL3(GLOWRING INNER TRIM)	P1EM	72"	STATIC WHITE	LED1	0-10V DIM 1% (DM1)	WIRE DIAGRAM C ON PAGE 7
				LED2		

WIRE DIAGRAM A (FOR 24" & 36"):

## DRIVER WIRES TO BUILDING SUPPLY

BLACK WIRE = LINE VOLTAGE  
WHITE WIRE = NEUTRAL  
GREEN WIRE = GROUND  
PURPLE = DIM +  
GREY = DIM -

FIG. 13 – WIRE CONNECTION FROM BUILDING SUPPLY TO DRIVER

## WIRE LABEL TABLE

CONTROL	WIRE COLOR	LABEL
ALL	RED	DRIVER 1 LED (+)
ALL	BLACK	DRIVER 1 & 2 LED (-)
ALL	RED/WHITE	DRIVER 2 LED (+)
ALL	RED/PURPLE	-
ALL	RED/GREY	-

FIG. 14 – WIRE CONNECTION FROM DRIVER TO FIXTURE CORD

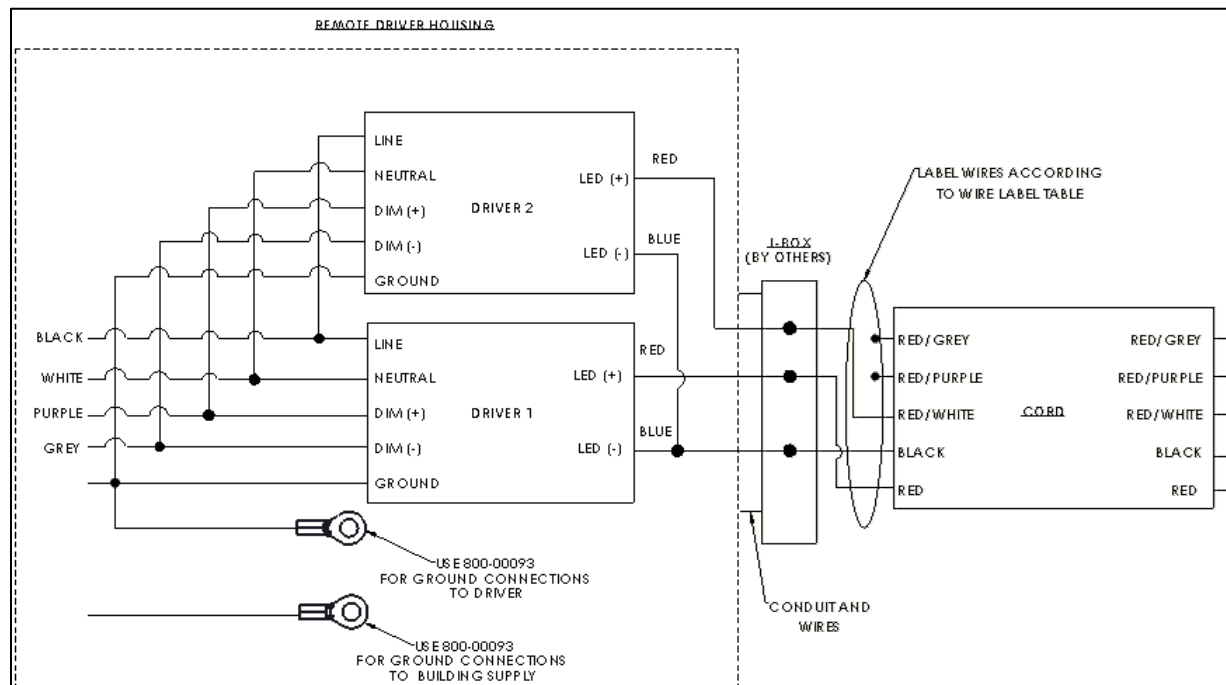


FIG. 15 – WIRE DIAGRAM FOR 24" & 36" SERIES

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**WIRE DIAGRAM B (FOR 48"):**

**DRIVER WIRES TO BUILDING SUPPLY**

BLACK WIRE = LINE VOLTAGE  
WHITE WIRE = NEUTRAL  
GREEN WIRE = GROUND  
PURPLE = DIM +  
GREY = DIM -

FIG. 16 – WIRE CONNECTION FROM BUILDING SUPPLY TO DRIVER

**WIRE LABEL TABLE**

CONTROL	WIRE COLOR	LABEL
ALL	RED	DRIVER 1 LED (+)
ALL	BLACK	DRIVER 1,2 & 3 LED (-)
ALL	RED/WHITE	DRIVER 2 LED (+)
ALL	RED/PURPLE	DRIVER 3 LED (+)
ALL	RED/GREY	CAPOFF

FIG. 17 – WIRE CONNECTION FROM DRIVER TO FIXTURE CORD

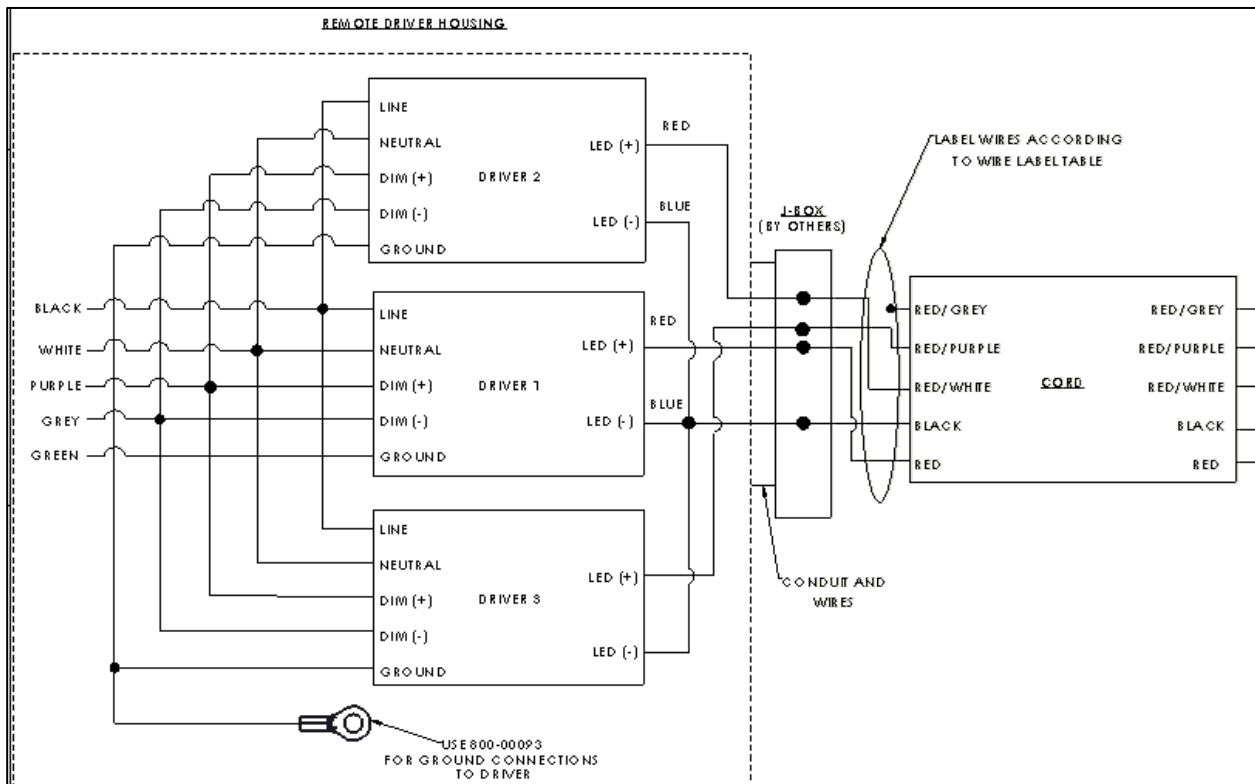





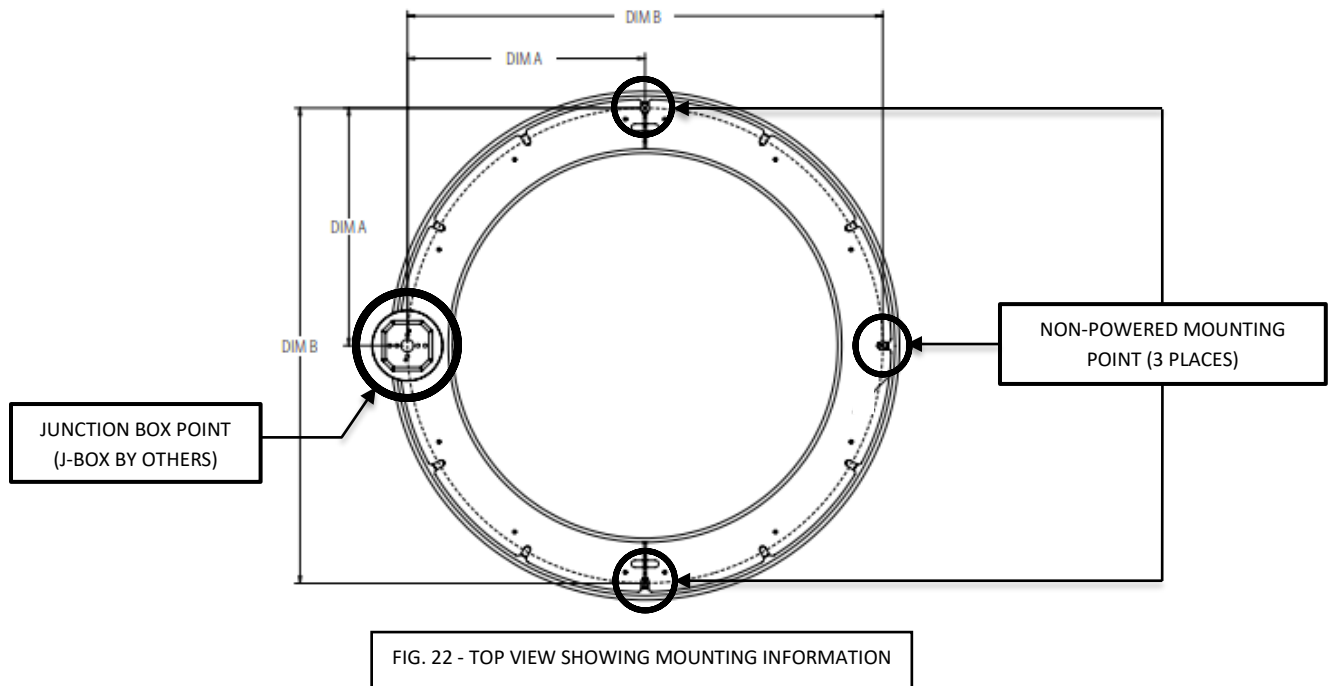
FIG. 18 – WIRE DIAGRAM FOR 48" SERIES

Sensitivity: Internal & Restricted

## GLOWRING MOUNTING:

1. Mark location for the NON-POWERED MOUNTING POINT according to the MOUNTING INFORMATION TABLE and FIG. 22.

MOUNTING INFORMATION TABLE						
SERIES	FIXTURE DIAMETER	FIXTURE WEIGHT	MOUNTING DISTANCE DIM A	MOUNTING CIRCLE DIM B	MOUNTING POINT	MIN/MAX OAH
 <b>GL1(GLOWRING)</b>	24"	23LBS	10.67"	21.34"	4	12"/144"
	36"	31LBS	16.67"	33.34"	4	12"/144"
 <b>GL2(GLOWRING OUTER TRIM)</b>	48"	41LBS	22.67"	45.34"	4	12"/144"
	60"	50LBS	28.67"	57.34"	4	12"/144"
 <b>GL3(GLOWRING INNER TRIM)</b>	72"	58LBS	34.67"	69.34"	4	12"/144"



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2. Dis-assemble the CEILING COUPLER into two components  
CC-BASE and CC-HOLDER  
as shown in FIG. 23.

For GLOWRING MOUNTING [HARD CEILING] see steps 3 and 4,  
For GLOWRING MOUNTING [GRID CEILING] see steps 5 and 6.

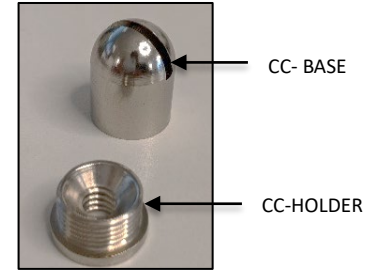


FIG. 23 - CEILING COUPLER ASSEMBLY

#### GLOWRING MOUNTING [HARD CEILING]:

3. For hard ceiling install #8 FLAT HEAD ANCHOR (by others) into ceiling at the non-powered mounting location as per the mounting information chart (page 8).

**WARNING: Anchors (by others) must be rated to 50lbs each and suitable for ceiling material at the non-powered mounting location.**

4. Install the CC-BASE to the #8 FLAT HEAD ANCHOR (by others) previously installed at the non-powered mounting location and secure with the #8 FLAT HEAD ANCHOR SCREW (by others) as shown in FIG. 24.

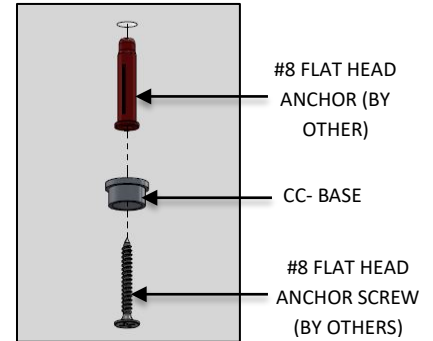


FIG. 24- HARD CEILING INSTALLATION

#### GLOWRING MOUNTING [GRID CEILING]:

5. For grid ceiling install 1/4-20 ROD (by others) at the non-powered mounting location as per the mounting information chart (page 8). 1/4-20 ROD should protrude past the bottom of the ceiling surface 0.375".

**WARNING: Make sure each threaded rod is mounted to structural member rated to at least 50lbs.**

6. Add a light thread locking compound to the 1/4-20 ROD (by others). Then thread CC-BASE to 1/4-20 ROD protruding through the ceiling material as shown in FIG. 25.

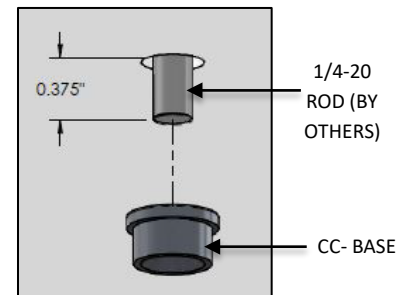


FIG. 25 - GRID CEILING INSTALLATION

#### GLOWRING MOUNTING [NON-POWERED POINT AIRCRAFT CABLE]:

7. Locate the AIRCRAFT CABLES from the mounting kit. Only three (3) will be used in this step.
8. Feed the AIRCRAFT CABLES through the three (3) CC-HOLDER. Once the AIRCRAFT CABLE is fed thru the CC-HOLDER, secure to the CC-BASE (mounted) at the three (3) non powered mounting locations as shown in FIG. 26.

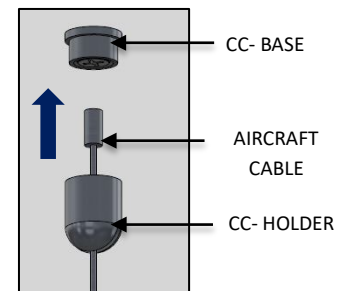


FIG. 26 - AIRCRAFT CABLE INSTALLATION

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## GLOWRING MOUNTING [CANOPY]:

9. Dis-assemble the SLIP RING COUPLER (1) as shown below in FIG.27 into three components SRC-BASE, SRC-HOLDER and SRC-FINIAL.
10. Screw the THREAD ROD into the top of the SRC-BASE until fully seated. Then assemble the THREADED ROD/ SRC-BASE into the center hole of the MOUNTING BRACKET until SRC-BASE is fully seated against MOUNTING BRACKET as shown below in FIG. 28.

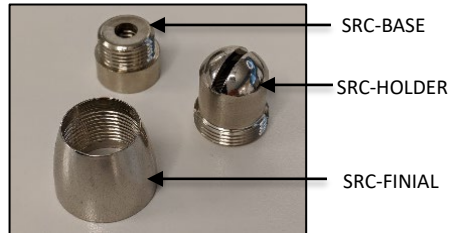


FIG. 27 – SLIP RING COUPLER (1) CONTENTS

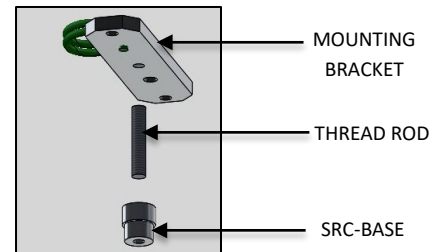


FIG. 28 – THREAD ROD INSTALLATION

11. Feed the remaining AIRCRAFT CABLE through the SRC-HOLDER. Then assemble the SRC-HOLDER with AIRCRAFT CABLE to the SRC-BASE on the MOUNTING BRACKET ASSEMBLY. Secure the MOUNTING BRACKET ASSEMBLY to the JUNCTION BOX (by others) as shown below in FIG. 29.
12. Feed the AIRCRAFT CABLE from the MOUNTING BRACKET ASSEMBLY through the center hole of the CANOPY and SRC-FINIAL. Loosely secure CANOPY to the ceiling by threading the SRC-FINIAL to the MOUNTING BRACKET ASSEMBLY as shown below in FIG. 30.

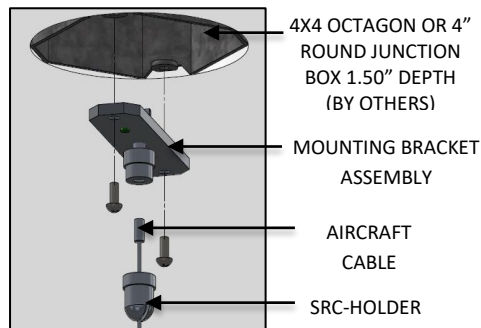


FIG. 29 – MOUNTING BRACKET ASSEMBLY

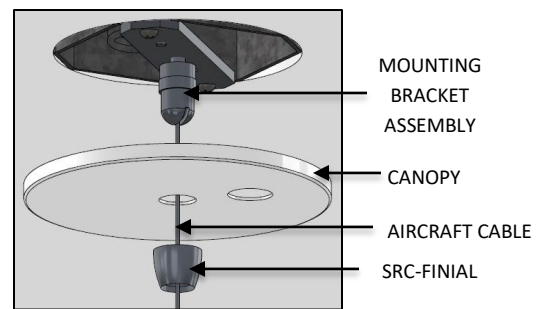


FIG. 30 – CANOPY INSTALLATION

13. Locate GLOWRING LUMINAIRE and with multiple people raise up GLOWRING LUMINAIRE to AIRCRAFT CABLES. when raising up the GLOWRING LUMINAIRE orientate as shown below so the GRIPLOCK closet to the power cord has the AIRCRAFT CABLE from JUNCTION BOX POINT, refer to GLOWRING MOUNTING step 1 for location.

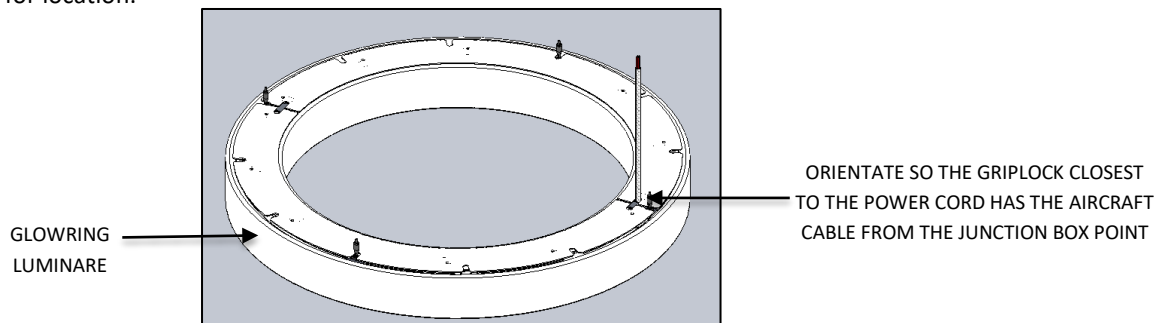


FIG. 31 – GRIP LOCK ORIENTATION

## WARNING:



1. Do not let the GLOWRING LUMINAIRE hang free until all the AIRCRAFT CABLES are secured and evenly tensioned.

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14. To feed AIRCRAFT CABLE into the GRIPLOCK, press the plunger of the GRIPLOCK and insert the AIRCRAFT CABLE into the body of the GRIPLOCK as shown in FIG. 32.

- Each AIRCRAFT CABLE must pass at least 1" beyond the body of the GRIPLOCK. When cutting off excess cable always leave at least 1" of cable showing.
- Cables may be cut using purpose-built cutters such as Felco C7. Cable will not fray unless passed repeatedly through the Gripper mechanism or otherwise abused.
- To prevent fraying of freshly cut ends, re-solder or apply a drop of super-glue.



FIG. 32 – AIRCRAFT CABLE INSTALLATION

15. Once the GLOWRING BODY is secured to the AIRCRAFT CABLE (4) at the GRIPLOCK (4) Unthread the SRC-FINIAL from the MOUNTING BRACKET ASSEMBLY and lower the CANOPY as shown below in FIG. 33.

16. Feed POWER CORD through the 2<sup>ND</sup> IN THE CANOPY and secure at desired length by using the STRAIN RELIEF provided as shown below in FIG. 34.

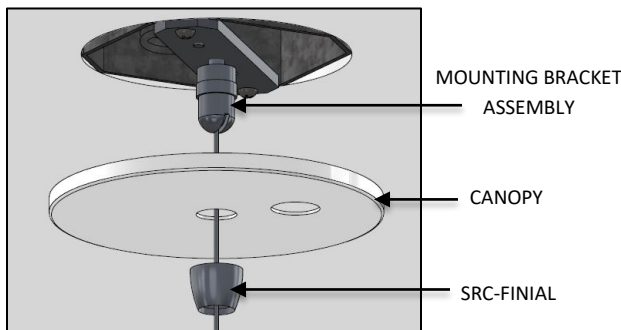


FIG. 33 – CANOPY DISASSEMBLY

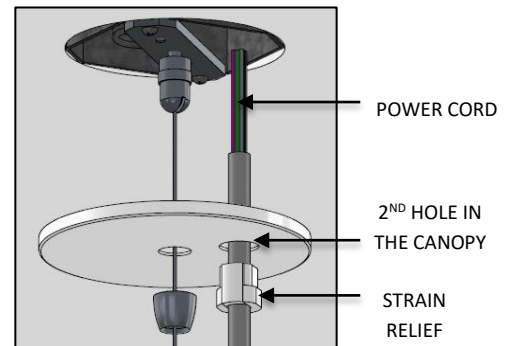


FIG. 34 – CORD INSTALLATION

17. Make all wire connections in the inside the junction box (by others) in accordance with the national electrical code and all applicable local and state codes. See wire diagram on page 5, 6 and 7 for corresponding models.

18. Raise CANOPY and secure to ceiling by threading the SRC-FINIAL to the MOUNTING BRACKET ASSEMBLY as shown below in FIG. 35.

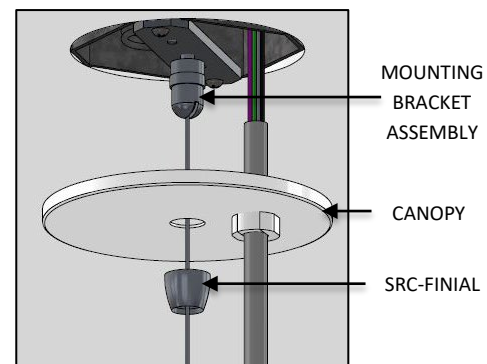


FIG. 35 – SRC-FINIAL INSTALLATION

19. Restore power to circuit the GLOWRING series pendant is connected to.

- Test to see that the luminaire turns on after power is restored.
- Contact OCL for any luminaire troubleshooting if a problem occurs.

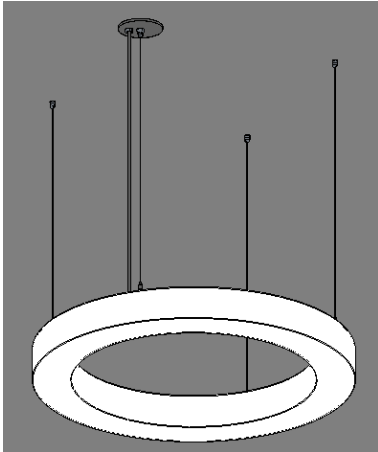


FIG. 36 - COMPLETED INSTALLATION OF GLOWRING PENDANT WITH P1EM HANGING SYSTEM GL1 (GLOWRING) (SHOWN)

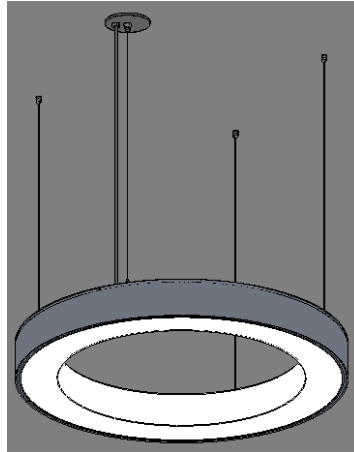


FIG. 37 - COMPLETED INSTALLATION OF GLOWRING PENDANT WITH P1EM HANGING SYSTEM GL2 (GLOWRING OUTER TRIM) (SHOWN)

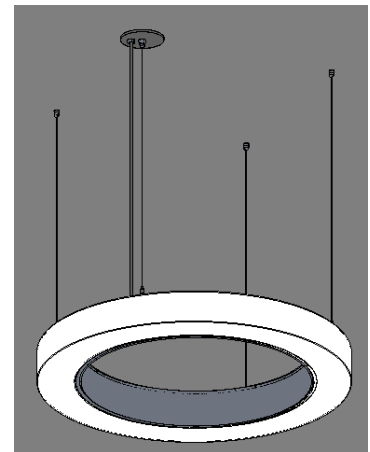


FIG. 38 - COMPLETED INSTALLATION OF GLOWRING PENDANT WITH P1EM HANGING SYSTEM GL3 (GLOWRING INNER TRIM) (SHOWN)

20. If there is option for Acoustic Panel, place the Acoustic part above the fixture body such that it is eventually balanced and assembly concentrically to the axis of fixture body as shown in FIG. 39, 40 & 41 below.

