

INSTALLATION INSTRUCTIONS TW1 PENDANT WITH P1EM HANGING SYSTEM

These Instructions cover the TWIN LUMINAIRE with the following options:

SERIES	HANGING SYSTEM	SIZE	LIGHT SOURCE	CIRCUIT OPTION	CONTROL	WIRE DIAGRAM
TW1(TWIN)	P1EM: PENDANT WITH VERTICAL AIRCRAFT CABLES TO SEPARATE MOUNTING POINTS AND POWER CORD TO CANOPY	96"	STATIC WHITE	SINGLE CIRCUIT	0-10V DIM 1% (DM1)	WIRE DIAGRAM ON PAGE 8
				DUAL CIRCUIT		WIRE DIAGRAM ON PAGE 8

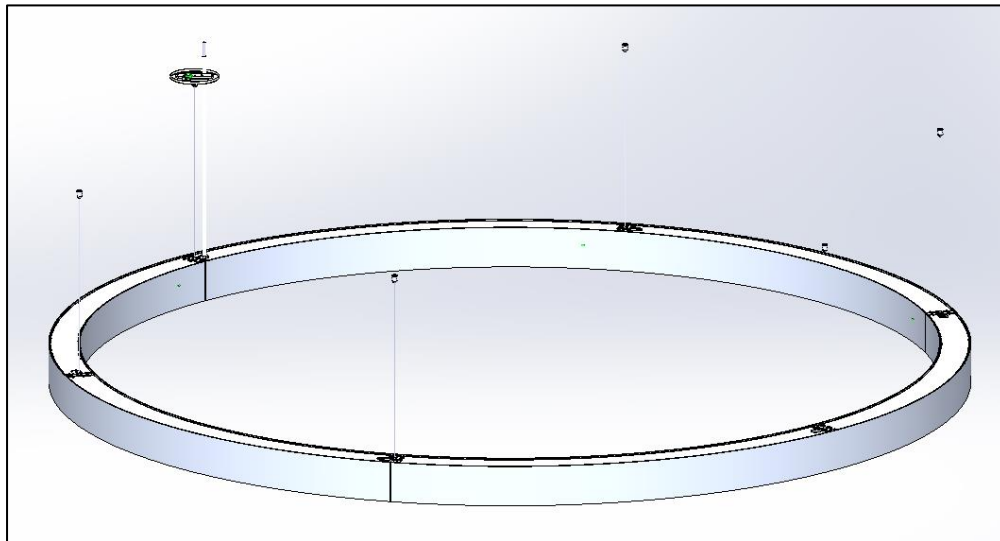


FIG. 1 – TW1-P1EM-96-MW-XXX-LEDX_XXK-UNV-XX-DM~

GENERAL NOTES:

1. PLEASE COMPLETELY READ THE INSTALL INSTRUCTIONS BEFORE STARTING INSTALLATION.
2. TURN OFF POWER TO CIRCUIT FIXTURE WHILE IT IS BEING INSTALLED.
3. INSTALL IN ACCORDANCE WITH ALL LOCAL, STATE AND NATIONAL CODES CONSULT WITH A QUALIFIED ELECTRICIAN FOR PROPER INSTALLATION.
4. 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.
5. DO NOT LET THE TWIN LUMINAIRE HANG FREE UNTIL ALL THE AIRCRAFT CABLES ARE SECURED AND EVENLY TENSIONED.
6. DUE TO A CHANGE IN NEC SECTION 410.69 EFFECTIVE IN 2022, THE COLOR PINK WILL BE USED IN PLACE OF GRAY FOR 0-10V CONTROL. NOTE THAT EXISTING SYSTEMS AND FIXTURES MANUFACTURED PRIOR TO 2022 MAY STILL USE GRAY WIRE AS AN UNGROUNDED CONDUCTOR FOR 0-10V CONTROL. CARE SHOULD BE TAKEN WHEN WORKING ON EXISTING SYSTEMS.

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GENERAL INFORMATION:

You will receive the following with each TWIN P1EM series pendant fixture:

1. TWIN LUMINAIRE SECTIONS (shown in FIG. 2)
2. INSTALLATION INSTRUCTIONS (shown in FIG. 3) - Please completely read the install instructions before starting installation.
3. FOUR (4) ACRYLIC PANELS AND SIX (6) TOP PLATES (shown in FIG. 6)
4. RED BAG (shown in FIG. 3) contains below following items.
 - a. CANOPY (as shown in FIG. 4)
 - b. MOUNTING KIT (as shown in FIG. 5)
 - i. STRAIN RELIEF
 - ii. MOUNTING BRACKET ASSEMBLY
 - iii. FIVE (5) CEILING COUPLER (CC)
 - iv. SIX (6) AIRCRAFT CABLE

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.

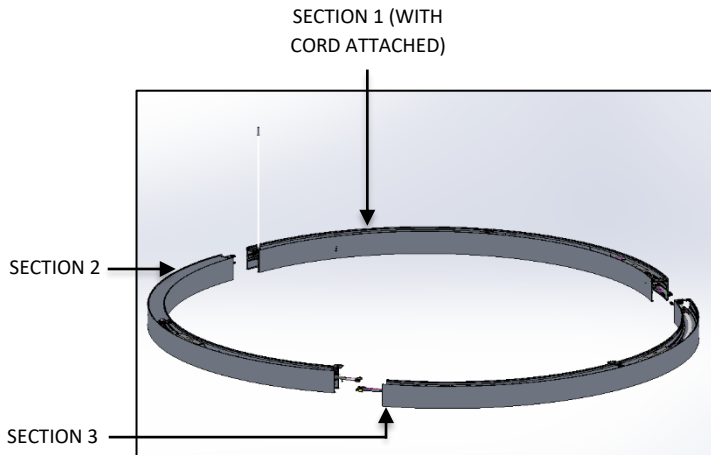


FIG. 2 - TWIN LUMINAIRE SECTIONS

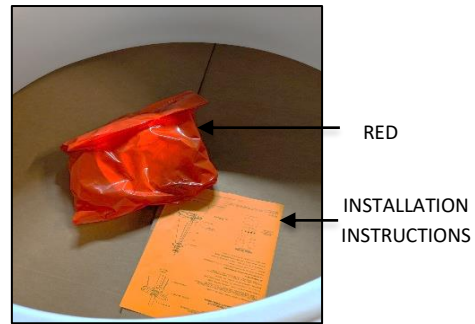


FIG.3 RED BAG AND INSTALLATION INSTRUCTIONS

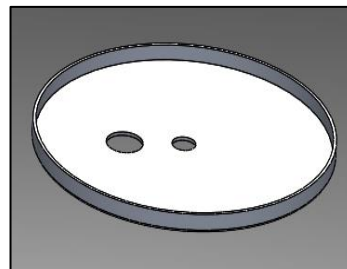


FIG. 4 - CANOPY

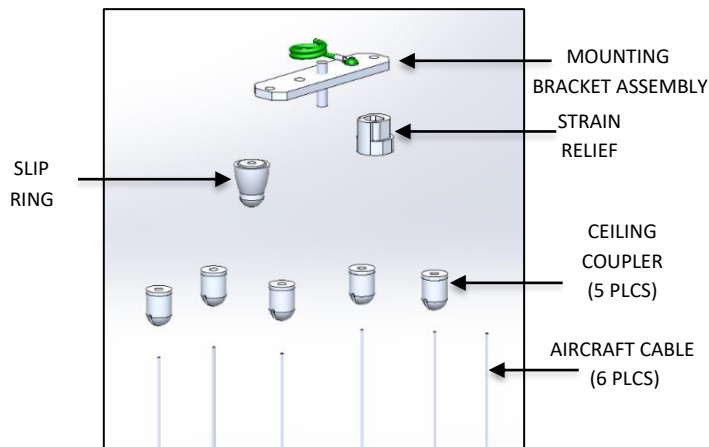


FIG. 5 - MOUNTING KIT CONTENTS

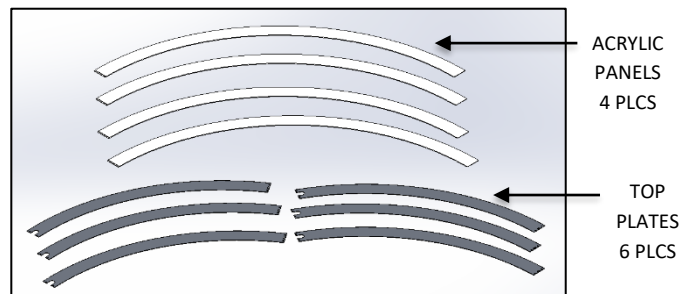


FIG. 6 - ACRYLIC PANELS & TOP PLATES

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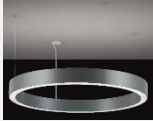
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TW1-P1EM-96-INSTALLATION INSTRUCTIONS

MOUNTING:

1. Mark location for the NON-POWERED MOUNTING POINT according to the MOUNTING INFORMATION TABLE and FIG. 7.

MOUNTING INFORMATION TABLE							
SERIES	FIXTURE DIAMETER	FIXTURE WEIGHT	MOUNTING DISTANCE			MOUNTING POINT	MIN/MAX OAH
			A	B	C		
 TW1(TWIN)	96"	110LBS	23.188"	46.375"	40.125"	6	12"/144"

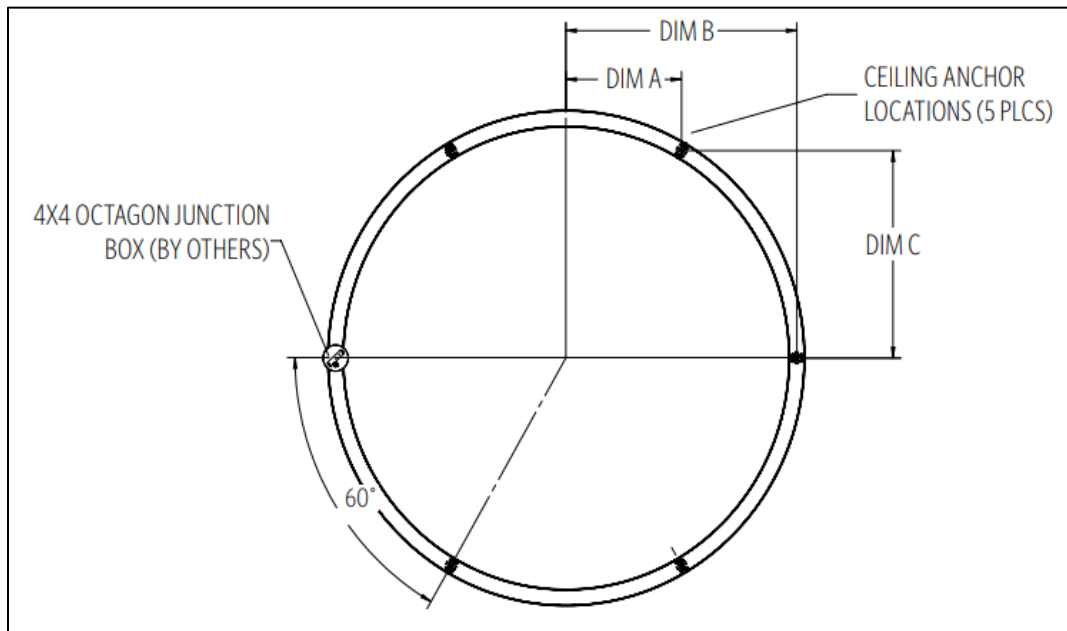


FIG. 7 - TOP VIEW SHOWING MOUNTING VIEW INFORMATION

2. Dis-assemble the CEILING COUPLER into two components CC-BASE, CC-HOLDER as shown in FIG. 8.

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

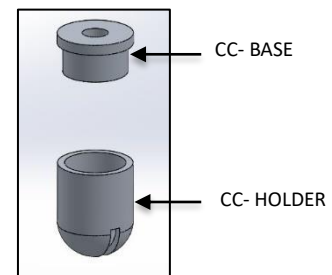


FIG. 8 - CEILING COUPLER ASSEMBLY

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TWIN 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 4).

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. 9.

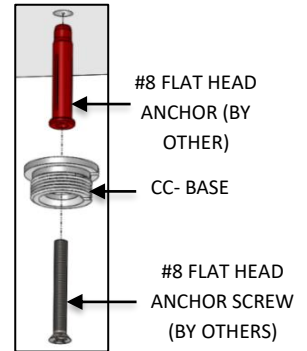


FIG. 9- HARD CEILING INSTALLATION

TWIN 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 4). 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. 10.

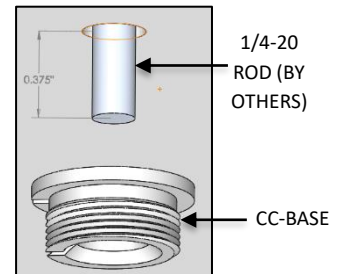


FIG. 10 - GRID CEILING INSTALLATION

TWIN MOUNTING [NON-POWERED POINT AIRCRAFT CABLE]:

7. Locate the AIRCRAFT CABLES. Feed all the AIRCRAFT CABLE through the CC-HOLDER. Once fed all the way through, screw CC-BASE and CC-HOLDER together as shown in FIG. 11.

8. Repeat step 7 for the remaining 4 AIRCRAFT CABLES.

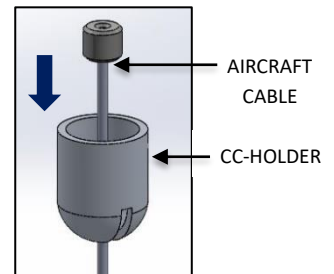


FIG. 11 - SS ROPE CABLE INSTALLATION

TWIN MOUNTING [CANOPY]:

9. Remove STRAIN RELIEF placed around the CORD in the CANOPY. Dis-assemble the SLIP RING COUPLER (1) into three components SRC-BASE, SRC-HOLDER and SRC-FINIAL as shown below in FIG.12.
10. Assemble the SRC BASE to the SCREW (Available in mounting bracket assembly) as shown below in FIG.13.

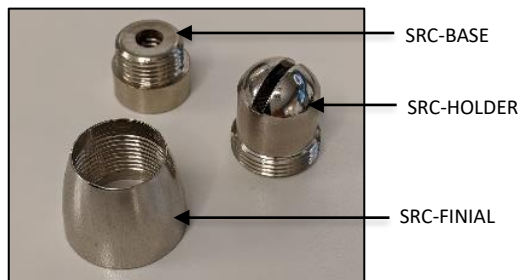


FIG. 12 - SLIP RING COUPLER (1) CONTENTS

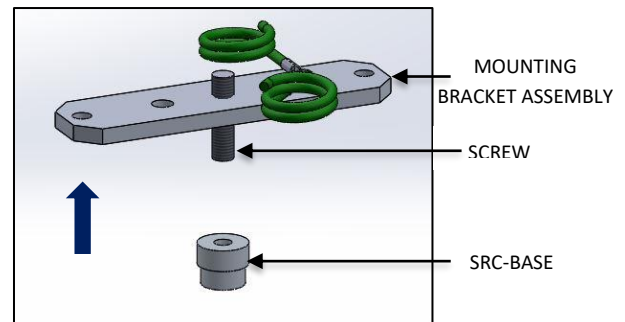


FIG. 13 -SRC-BASE INSTALLATION

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11. Assemble the MOUNTING BRACKET ASSEMBLY to the JUNCTION BOX the fixture will mount to (by others) with screws (by others) as shown in below FIG. 14 below.
12. Feed the AIRCRAFT CABLE through the SRC-HOLDER and assemble the SRC-HOLDER to SRC-BASE as shown below in FIG. 15.

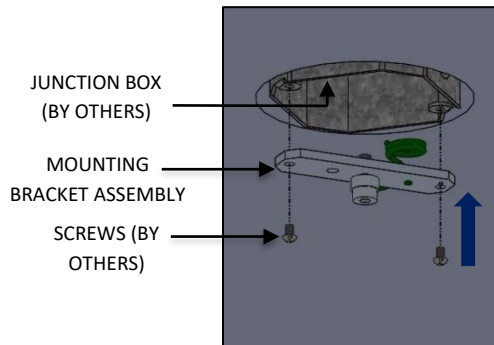


FIG. 14 – MOUNTING BRACKET ASSEMBLY INSTALLATION

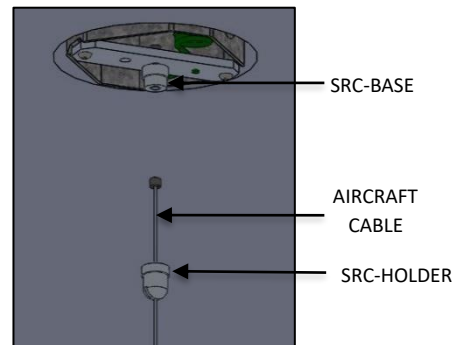


FIG. 15 – AIRCRAFT CABLE INSTALLATION

13. Pass the remaining Aircraft cable through the canopy and SRC-FINIAL. Loosely secure CANOPY to the ceiling by threading the SRC-FINIAL to the SRC-HOLDER as shown in FIG. 16.

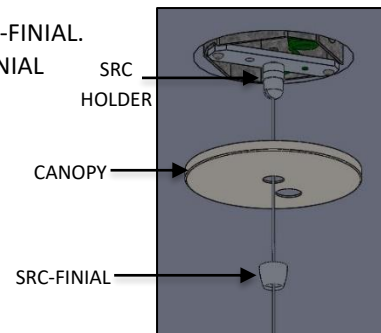


FIG. 16 – CANOPY INSTALLATION

14. Raise the first section of the fixture with multiple people and feed the AIRCRAFT CABLES into the GRIPLOCKS by pressing the plunger of the GRIPLOCK and insert the AIRCRAFT CABLE into the body of the GRIPLOCK and adjust fixture drop to desired height as shown in FIG. 17.
 - a. AIRCRAFT CABLE must pass at least 1.75" beyond the body of the GRIPLOCK. When cutting off excess cable always leave at least 1" of cable showing.
 - b. 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.
 - c. To prevent fraying of freshly cut ends, re-solder or apply a drop of super-glue.
 - d. Proper CABLE adjustment is critical for these FIXTURES. Improper CABLE adjustment will result in uneven tension and may cause the FIXTURE BODY to bow.

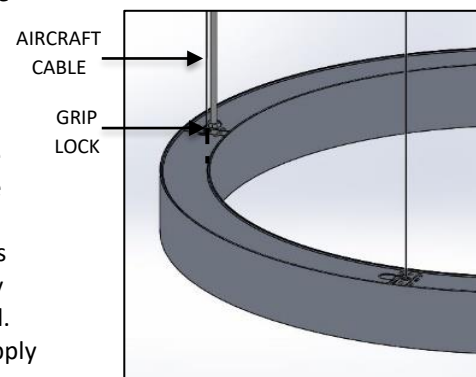


FIG. 17 – FIXTURE INSTALLATION

WARNING:



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

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15. Repeat step 14 for the remaining two sections.
16. Connect the Wire Harness in series from section 1 and section 2 as shown in FIG. 18.
17. Repeat the step 16 for remaining two sections.
18. Connect two sections by lining up the dowel pins and pushing the sections together. Install the 4" #10-32 bolt & nut and tighten as shown in FIG. 19. This pulls the sections together.

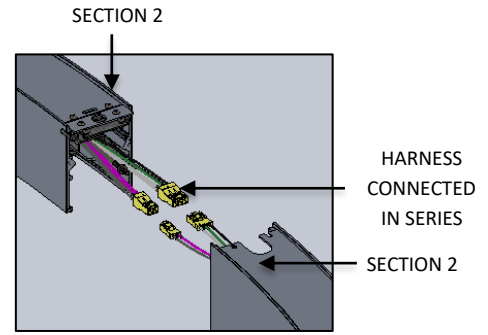


FIG. 18 – HARNESS CONNECTION

19. Loosen the 2 #8 screws on top of the hanging bracket and slide the bracket over so that it is centered over the seam between section 1 & section 2 as shown in FIG. 20. Tighten the #8 screws so the bracket stays in place.

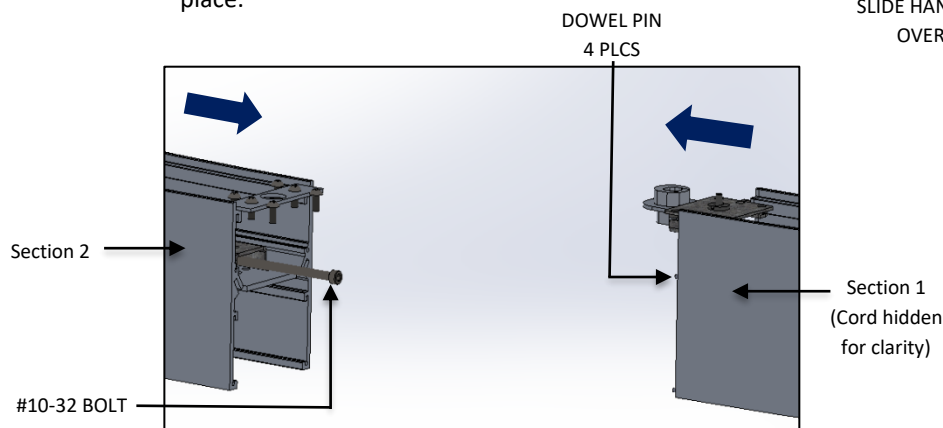


FIG. 19 – SECTIONS INSTALLATION

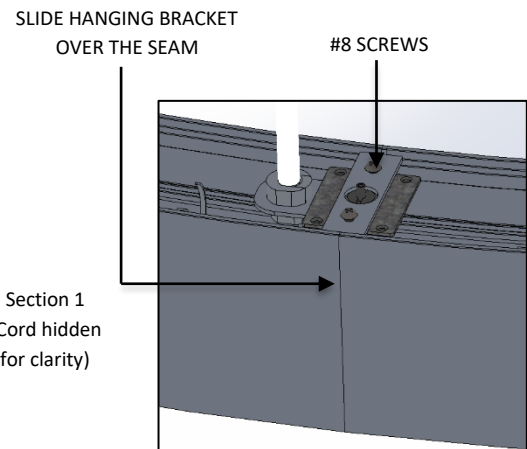


FIG. 20 – BRACKETS INSTALLATION

20. Repeat steps 18 & 19 for attaching at the other two junctions.
21. Once the TWIN BODY is secured to the AIRCRAFT CABLE (5) at the GRIPLOCK (5) Unthread the FINIAL from the MOUNTING BRACKET ASSEMBLY and lower the CANOPY as shown below in FIG. 21.
22. Feed POWER CORD through the second Hole in the CANOPY and secure CORD to CAOPY with CORD STRAIN RELIEF as shown below in FIG. 22.

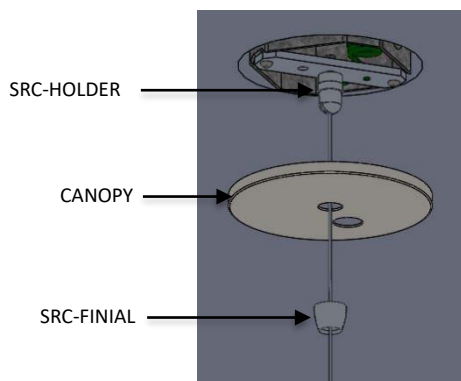


FIG. 21 – CANOPY DIS-ASSEMBLY

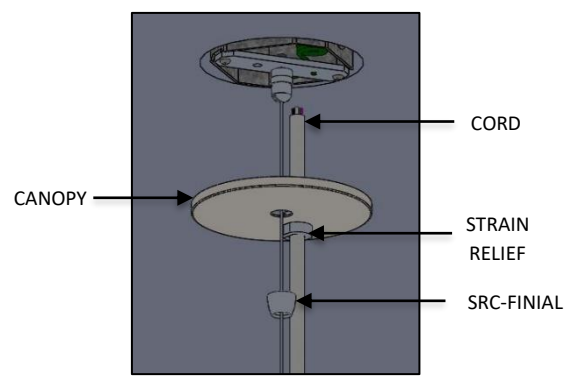


FIG. 22 – CORD INSTALLATION

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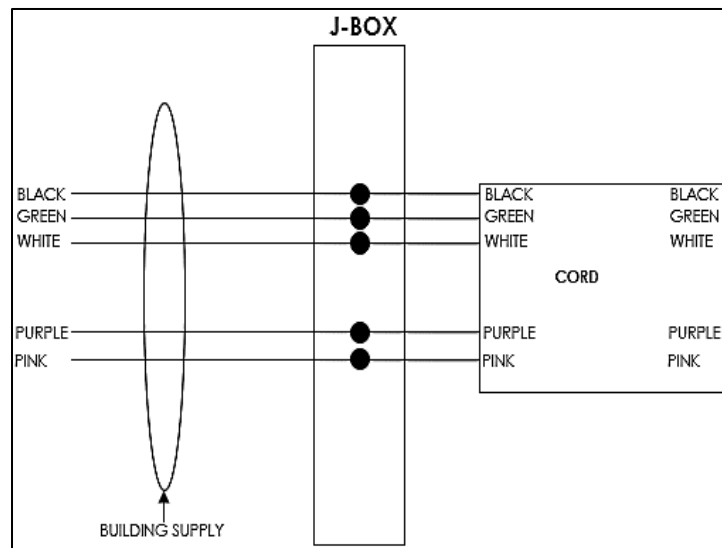
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23. See WIRE DIAGRAM as shown in FIG. 23 and WIRE LABEL TABLE below for wire connections. Make all wire connections in accordance with the NATIONAL ELECTRICAL CODE and all applicable LOCAL AND STATE CODES.

SERIES	HANGING SYSTEM	SIZE	LIGHT SOURCE	DOWNLIGHT OPTION	CONTROL	WIRE DIAGRAM
TW1(TWIN)	P1EM: PENDANT WITH VERTICAL AIRCRAFT CABLES TO SEPARATE MOUNTING POINTS AND POWER CORD TO CANOPY	96"	STATIC WHITE	SINGLE CIRCUIT	0-10V DIM 1% (DM1)	WIRE DIAGRAM ON PAGE 7
				DUAL CIRCUIT		WIRE DIAGRAM ON PAGE 8

SINGLE CIRCUIT WIRE DIAGRAM:

WIRE LABEL TABLE	
WIRE COLOR	LABEL
BLACK	LINE VOLTAGE
WHITE	NEUTRAL
GREEN	GROUND
DM1 DIMMING OPTION:	
PURPLE	0-10V DIMMING (+)
PINK	0-10V DIMMING (-)



SEE GENERAL NOTE 6 ON PAGE 1

FIG. 23 – WIRE DIAGRAM

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DUAL CIRCUIT WIRE DIAGRAM:

DUAL CIRCUIT (TWO CORDS)

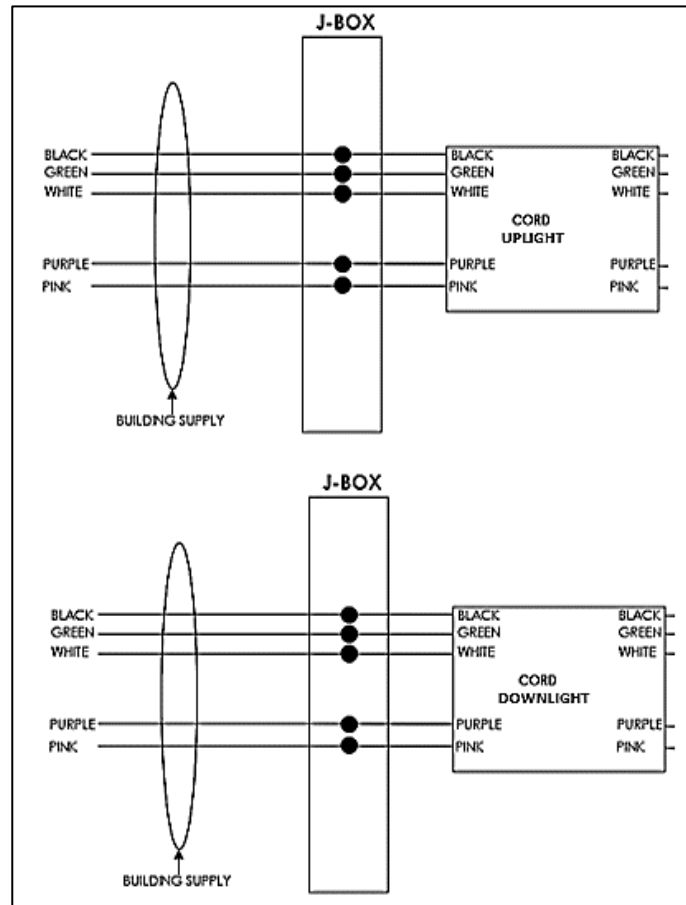
CORD FOR UPLIGHT:

BLACK WIRE = UPLIGHT LINE VOLTAGE
PURPLE WIRE = UPLIGHT 0-10V (+)
PINK WIRE = UPLIGHT 0-10V (-)

CORD FOR DOWN LIGHT:

BLACK WIRE = DOWNLIGHT LINE VOLTAGE
PURPLE WIRE = DOWNLIGHT 0-10V (+)
PINK WIRE = DOWNLIGHT 0-10V (-)
GREEN = UP AND DOWNLIGHT GROUND
WHITE WIRE = UP AND DOWNLIGHT NEUTRAL

FIG. 24 - WIRE CONNECTION FROM BUILDING SUPPLY TO DRIVER



SEE GENERAL NOTE 6 ON PAGE 1

FIG. 25 – WIRE DIAGRAM FOR ALL MODELS

24. Raise CANOPY and secure to ceiling by threading the SRC-FINIAL to SRC-HOLDER.as shown below in FIG.26.

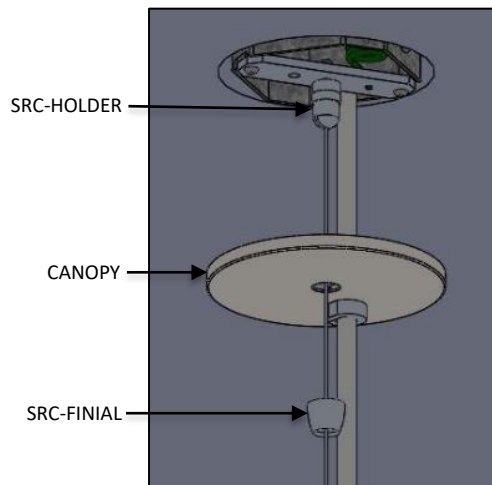


FIG. 26 – FINIAL INSTALLATION

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25. Install the 6 Aluminum TOP PLATES with the #8 screws provided as shown in FIG. 27.

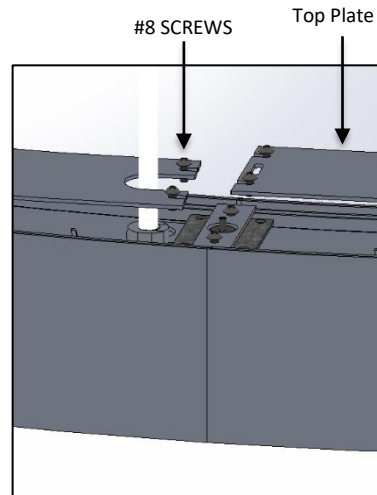


FIG. 27 – TOP PLATE INSTALLATION

26. Install the ACRYLIC PANELS into the fixture. Make sure that the seams on the ACRYLIC PANELS overlap and there are no gaps in the seams. Verify that the ACRYLIC PANELS are lying flat and positioned evenly.

27. Restore power to circuit the TWIN series pendant is connected to.

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

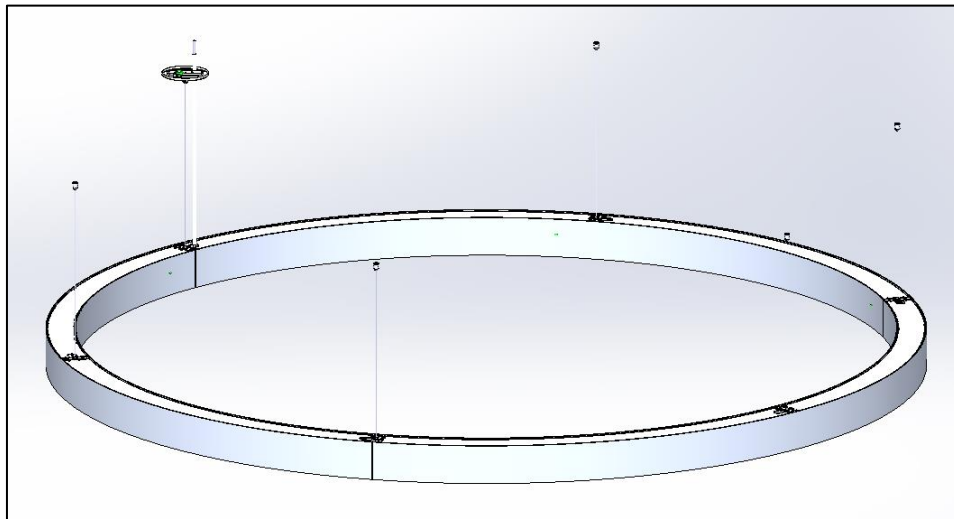


FIG. 28 - COMPLETED INSTALLATION OF TW1 PENDANT WITH P1EM HANGING SYSTEM

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