INSTRUCTIONS
LSL2 INSTALLATION



Small / Medium



Large / X-Large

IMPORTANT

READ CAREFULLY BEFORE INSTALLING FIXTURE. RETAIN THESE INSTRUCTIONS FOR FUTURE REFERENCE.
Fixtures must be wired in accordance with the National Electrical Code and all applicable local codes. Proper grounding is required for safety. THIS PRODUCT MUST BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE INSTALLATION CODE BY A PERSON FAMILIAR WITH THE CONSTRUCTION AND OPERATION OF THE PRODUCT AND THE HAZARDS INVOLVED.
WARNING: Make certain power is OFF before installing or maintaining fixture. No user serviceable parts inside.
CAUTION: For proper weatherproof function all gaskets must be seated properly and all screws inserted and tightened firmly. Silicone all plugs and unused conduit entries.

- DO NOT make or alter any open holes in the luminaire. Do not modify the luminaire.
- Risk of eye injury! Eye protection is required at all times during the installation, operation, and maintenance of the luminaire.
- The high intensity light produced by the luminaire can cause severe damage to the eye if viewed directly at close range. Avoid being in front of a luminaire that is on or wear suitable light blocking protective eye wear such as welding goggles. The luminaire should be positioned so that prolonged staring into the luminaire at a distance closer than 33 feet is not expected.
- NEVER point the aiming laser at any person or animal as it can cause permanent damage to eyes. Use laser only for aiming fixtures as directed.
- CAUTION - RISK OF FIRE.
- This product is not available for several special environments, such as places with corrosive gas liquids or high pressure water vapor.
- This luminaire is designed to operate in ambient temperatures ranging from -40°C to 50°C (-40°F to 122°F).

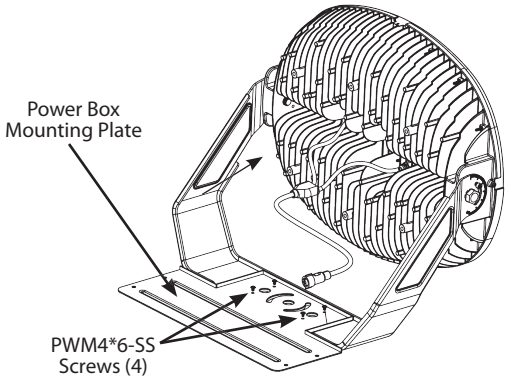
CAUTION WHEN USING THE LASER AIMING ASSEMBLY, NEVER LOOK DIRECTLY INTO THE LASER BEAM *(sold separately)***.**

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POWER BOX MOUNTING PLATE

1. Mount **Power Box Mounting Plate** and securely fasten with included hardware *(Fig. 1)*.
2. Align the center hole of the **Horizontal Aiming Protractor** and the **Mounting Bracket** *(Fig. 2)*, attach the **Horizontal Aiming Protractor** to the **Mounting Bracket**.
3. Secure **Visor** on fixture with *(3)* PM5*8-SS **Screws** *(provided)* as shown in Fig. 2
4. Optional **laser for aiming**, loosen *(2)* CM4*25 **Screws** from **Aiming Laser Assembly** *(sold separately)*; attach the **Assembly** in the **Keyhole Slots** and tighten *(2)* **Screws** *(Fig. 3)*.
5. Set fixture in place and install 3/4" **Bolt**, **Flat Washers**, **Spring Washer** and **Nut** to securely fasten the fixture **Mounting Bracket** to the mounting structure. A secondary position **Locking Bolt** *(3/8" diameter corrosion resistant steel bolt with nut, flat washer and locking washer)* shall be used to lock the position. **Do not fully tighten the hardware until the fixture is aimed** *(Fig. 2)*.
6. Attach the **Power Box** to the **Mounting Plate** with *(4)* CM6*18 **Screws** *(Fig. 4)*. Complete the wiring according to the wiring diagram with the water proof terminal.
7. After aiming is complete, tighten all **Bolts** and **Screws** on side of fixture and mounting hardware.

Fig: 1



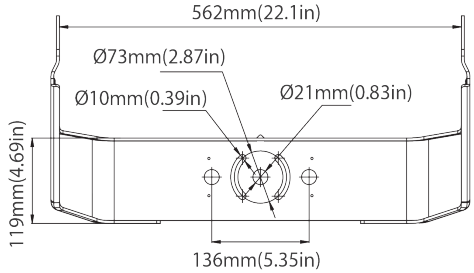


Fig: 2

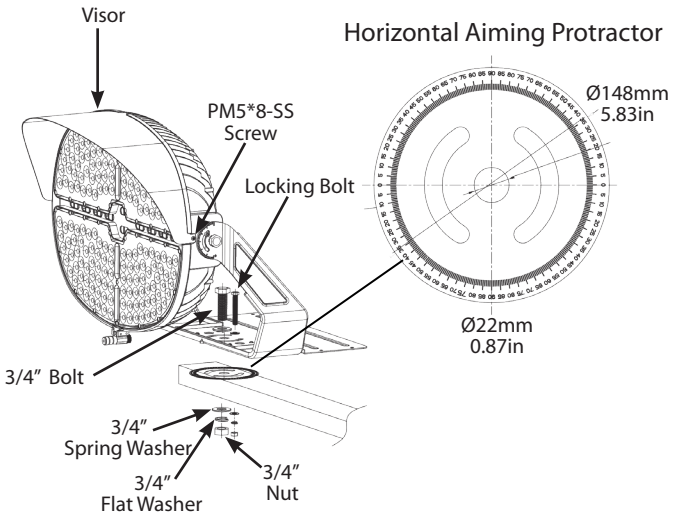


Fig: 3

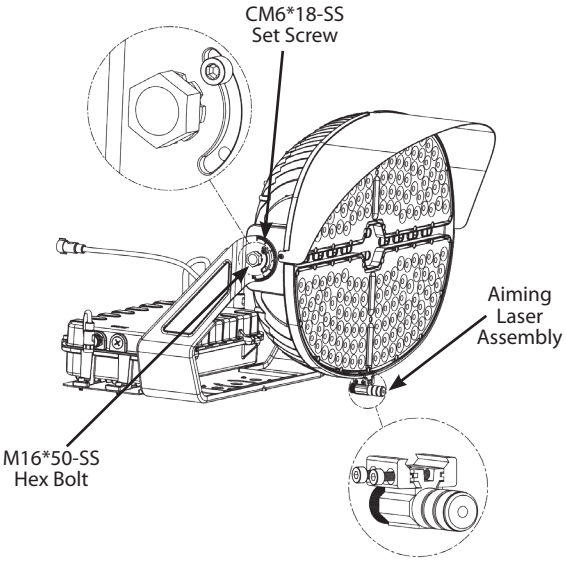
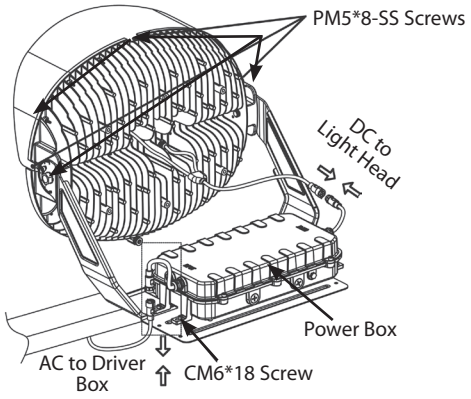


Fig: 4



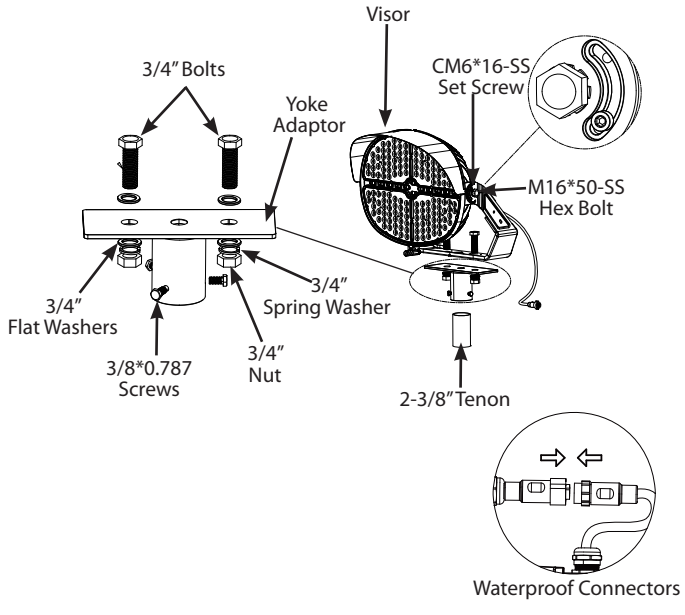
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SLIPFITTER ADAPTOR

Slipfitter Adaptor is sold separately *(SF)*.

1. Secure the **Visor** to the fixture using (3) PM5*8-SS **Screws** *(torque: 30-45 in-lbf or 3.5 to 5 N-m)* as shown in Fig. 5.
2. Align the center hole of the **Horizontal Aiming Protractor** with the **Mounting Bracke**t, then attach the **Horizontal Aiming Protractor** to the **Bracket**.
3. Loosen the *(2)* CM4*25 **Screws** from the **Aiming Assembly** *(sold separately)*, and attach the **Aiming Assembly** *(sold separately)* in the **Keyhole Slots** and tighten the *(2)* **Screws** to a torque of 30-45 in-lbf *(3.5 to 5 N-m)*.
4. Secure the **Slipfitter Adapter** onto the **Mounting Bracket** with *(2)* **3/4-inch Bolts**, **Spring Washer**, and **Nut** tightening to 35-45 ft-lbf *(47 to 60 N-m)*. Then snap the pole into the **2-3/8 inch Tenon** and lock it in place using *(3)* **3/8 x 0.787-inch Screws** tightened to 10-15 ft-lbf *(14 to 18 N-m)*. Ensure the wiring is completed according to the wiring diagram, observing proper voltage and polarity. Use **Waterproof Connectors**, tighten the **Screws** and ensure a secure waterproof condition.
5. Slightly loosen the fixture aiming screws just enough to allow the fixture to rotate and tilt. Turn on the **Laser** and use the **Aiming Assembly** to position the fixture according to the lighting design.
6. Once aiming is complete, tighten all **Bolts** and **Screws** including the **M1650-SS Hex Bolt** *(26-33 ft-lbf (35 to 45 N-m)* and the **CM616-SS Set Screws** *(35-75 in-lbf (4-8 N-m)* on the sides of the fixture and mounting hardware.

Fig: 5

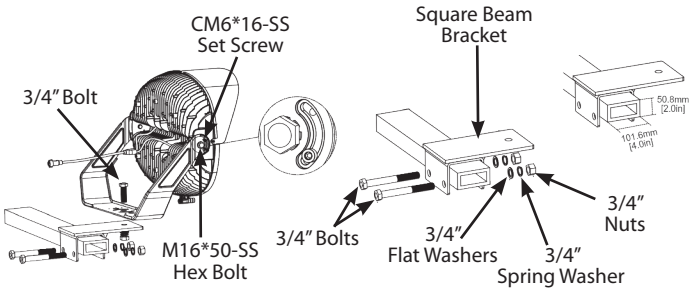


SQUARE BEAM MOUNTING BRACKET

Square Beam Mounting Bracket is sold separately *(SB)*.

1. Align the center hole of the **Horizontal Aiming Protractor** with the **Mounting Bracket** then attach the **Horizontal Aiming Protractor** to the **Bracket** *(Fig. 6)*.
2. Loosen the *(2)* **CM4*25 Screws** from the **Aiming Assembly** *(sold separately)* and attach the **Aiming Assembly** *(sold separately)* in the **Key Hole Slots** and tighten **(2) Screws** to a torque of 21-26 in-lbf *(2.5 to 3.0 N-m)*.
3. Secure **Visor** on fixture with *(3)* **PM5*8-SS Screws** *(21-26 in-lbf (2.5 to 3.0 N-m)*.
4. Hold **Square Beam Mounting Bracke**t on top of **Cross Arm** *(by others)*. Insert both clamping **Hex Bolts** through **Washer**, **Bracket**, other side of **Bracket**, lock **Washe**r and **Hex Bolt** *(35-45 ft-lbf(47 to 60 N-m)*.
5. Set fixture in place and install **Bolt**, **Flat Washer**, **Spring Washer** and **Nut** to securely fasten the fixture **Mounting Bracket** to the **Square Beam Mounting Bracket** *(35-45 ft-lbf(47 to 60 N-m)*. A secondary 3/8 inch diameter corrosion resistant steel **Bolt** with **Nut**, **Flat Washer** and **Locking Washer** shall be used to lock the orient *(15-20ft-lbf (20-30 N-m)*. **Do not fully tighten the hardware until the fixture is aiming, just make sure the fixture is secure.**
6. Observing proper voltage and polarity, complete the wiring according to the wiring diagram with the **Waterproof Connectors**, tighten the **Screw**, make sure it on a good water proof conditions.
7. Slightly loosen the fixture aiming screws just enough to allow the fixture to rotate and tilt. Turn on the **Laser** and using **Aiming Assembly** to aim the fixture to the proper point may according to the lighting design.
8. After aiming is complete, tighten all **Bolts** and **Screws** including **M16*50-SS Hex Bolt** *(26-33 ft-lbf (35 to 45 N-m)* and **CM6*16-SS Set Screws** *(35-75 in-lbs or 4-8 N-m)* located on the side of the fixture, along with the mounting hardware.

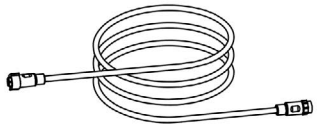
Fig: 6



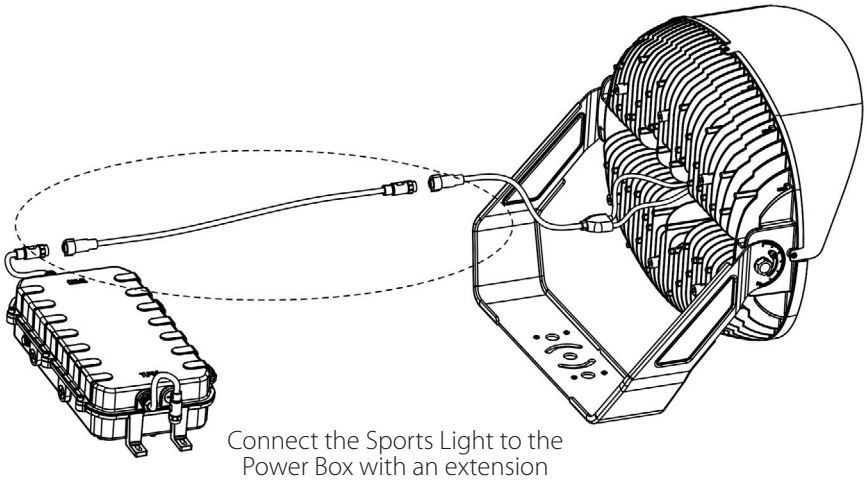
INSTRUCTIONS
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REMOTE POWER BOX

Fig: 7



The maximum cord length is
50m or 164ft.
(ordered separately)
P1-13C

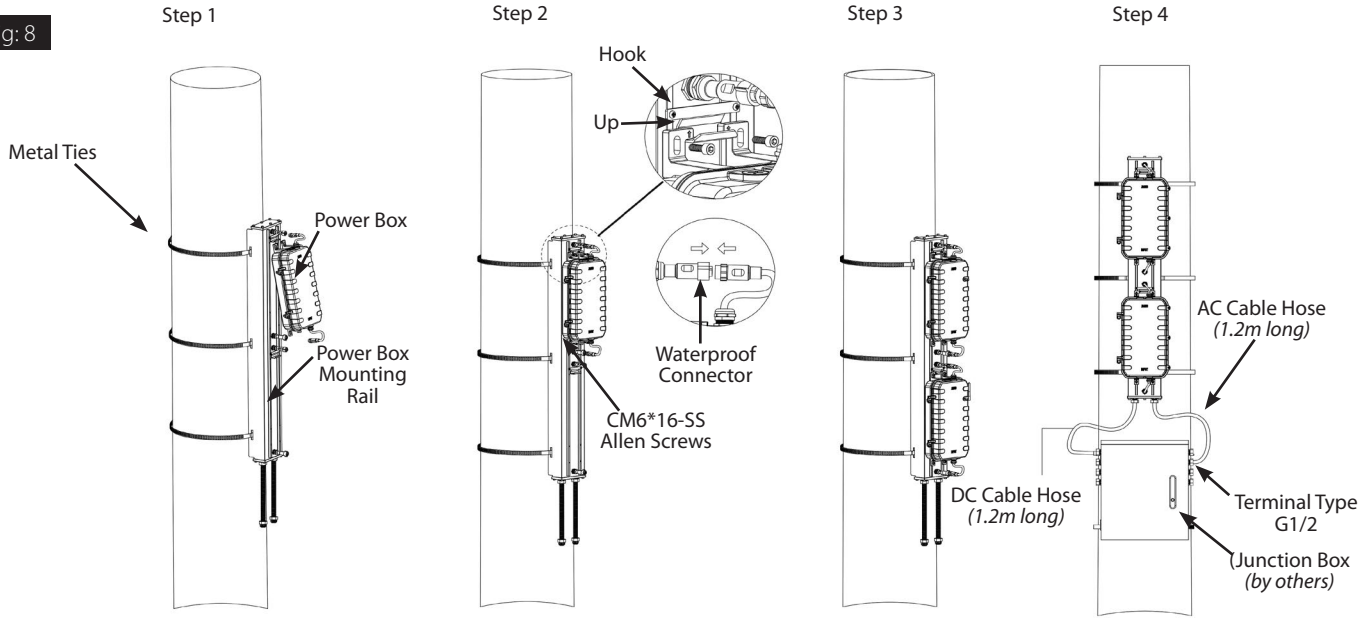


Connect the Sports Light to the Power Box with an extension cord.

MOUNTING A

1. Secure **Power Box Mounting Rail** to the light Pole using 3 metal cable ties *(by others)* see Fig. 8.
2. Hang the **Power Box** on **Hook** on the **Mounting Rail** *(note the arrow direction is facing up)*. Secure the Power Box to the Mounting Rail with (4) CM6*16-SS Allen Screws. Connect the input **Waterproof Connector** and the output **Waterproof Connector** respectively.
3. The **Power Box Mounting Rail** receives AC power up from the **Junction Box** *(by others)* and outputs DC Power that is fed back down into the **Junction Box**.
4. The **Power Box Mounting Rail** AC and DC cables will be through 42 inch metal conduit with fittings and terminated directly to the **Junction Box** *(by others)*.

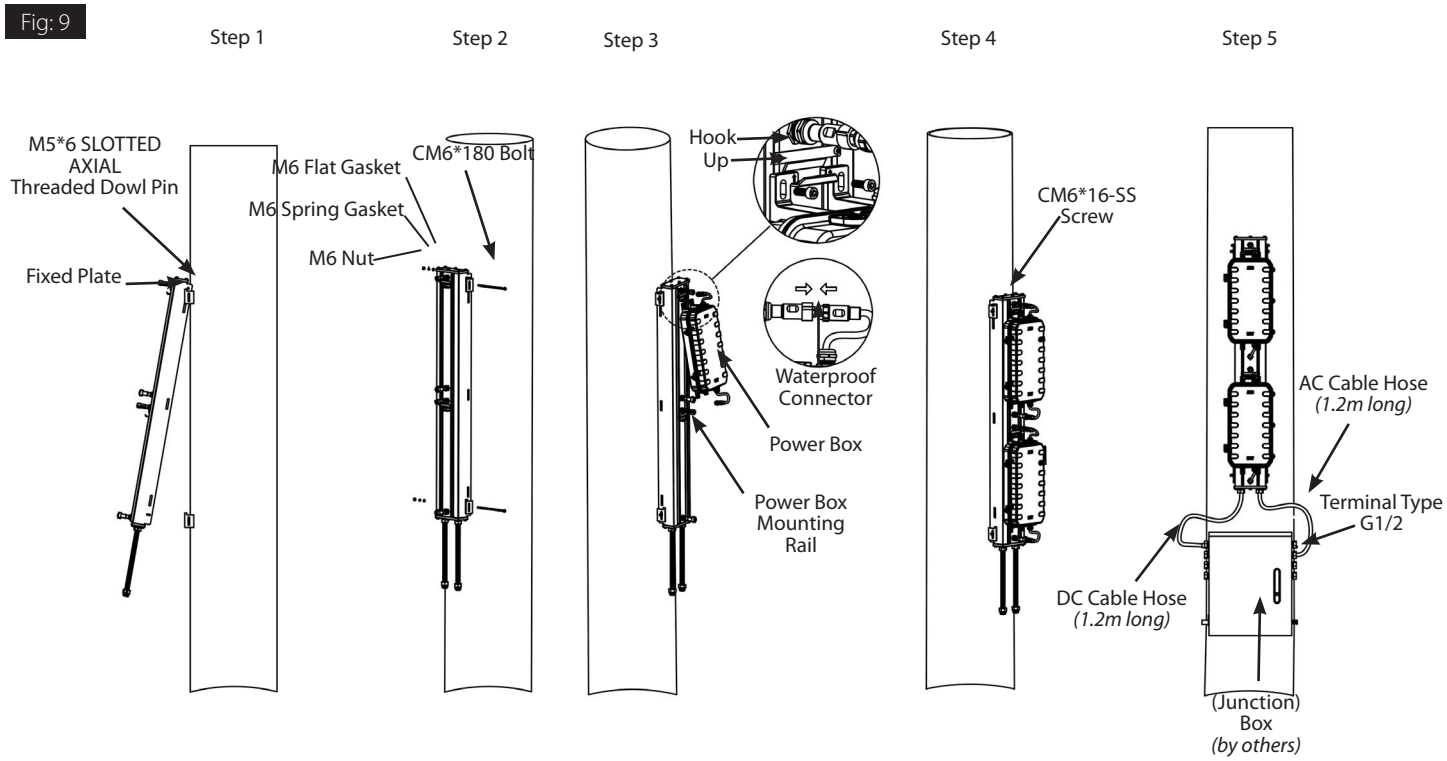
Fig: 8



MOUNTING B

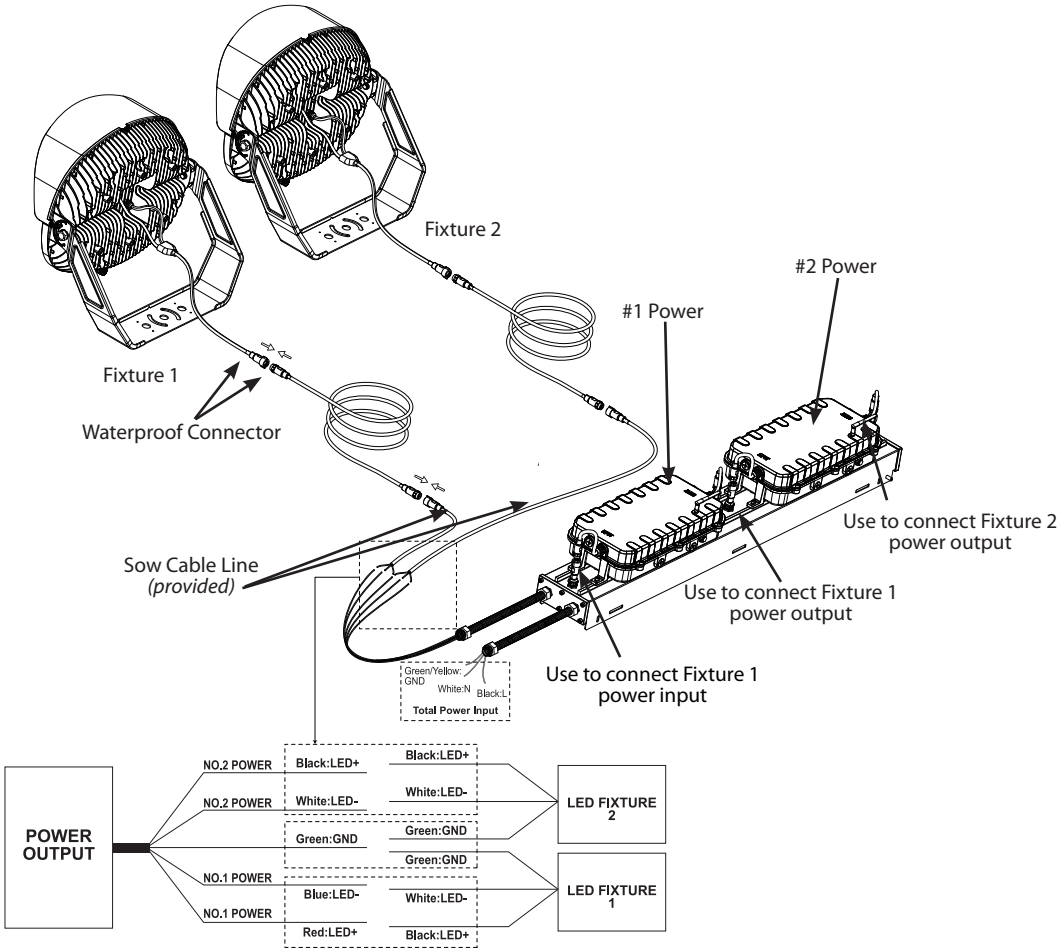
1. Attach the **Power Box Mounting Rail** to the **Fixed Plate** using *(2)* M5*6 **Dowel Pins** as shown in Fig. 9.
2. Use *(2)* CM6*180 Bolts to secure the **Power Box Mounting Rail**.
3. Hang the **Power Box** on the **Hook** of the **Mounting Rail** *(ensure the arrow is facing upwards)*, then tighten the **Screws**. After that, connect the input and output **Waterproof Connectors** respectively.
4. The **Power Box Mounting Rail** receives AC power from the **Junction Box** *(by others)* and outputs DC power, which is then fed back into the **Junction Box** *(by others)*.
4. The AC and DC cables of the **Power Box Mounting Rail** will pass through 42 inch metal conduit with fittings and will be directly connected to the **Junction Box** *(by others)*.

Fig: 9



REMOTE POWER BOX WIRING

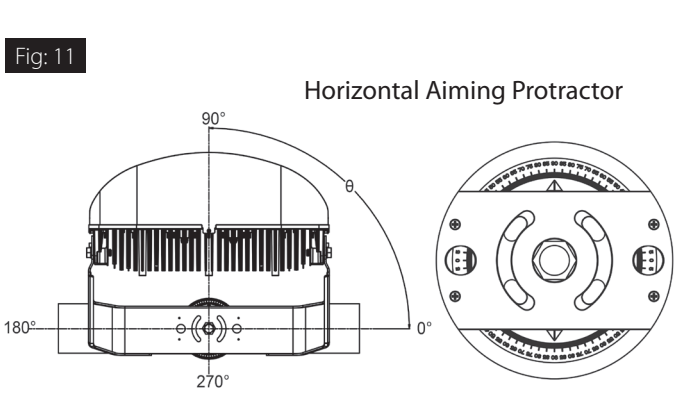
Fig: 10

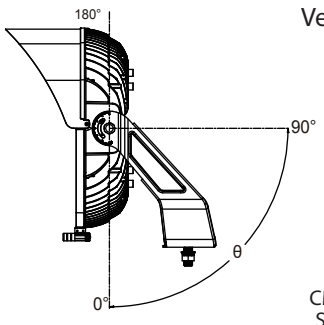


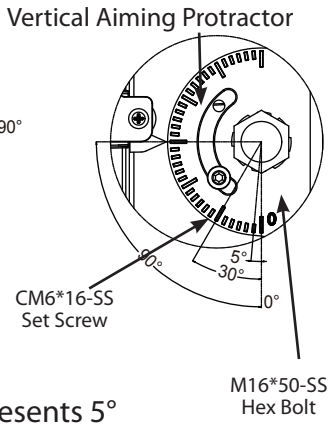
POSITION - TILT

The Position/Tilt angle refers to the direction of the fixture aiming
Left/Right, **Up/Down,** see Fig. 11.

Fig: 11







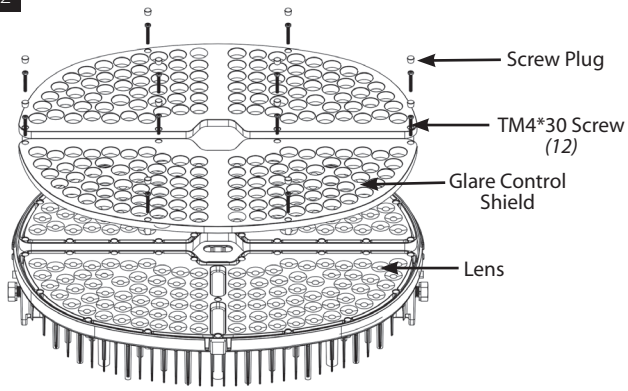
As shown, one grid-bar represents 5°

GLARE CONTROL SHIELD

Glare Control Shield is sold separately.
(P1GCS-S-M (Small / Medium), P1GCS-L-XL (Large/X-Large)

1. Remove *(12)* **Screw Plugs** and *(12)* **TM4*30 Screws** from **Lens** as shown in Fig. 12.
2. Secure the **Glare Control Shield** with the *(12)* **TM4*30 Screws** and replace *(12)* **Screw Plugs.**

Fig: 12



ACCESSORY LIST

Diagram		Quantity	Diagram	Quantity
Laser Pointer (Sold separately)	① Battery	1 pc	⑨ 3/4in Bolt	1 pc
	② Laser aiming assembly	1 set (Two parts, aiming head and cover)	⑩ 3/4in Flat Washers	2 pcs
	③ Hexagon key	2 pcs	3/4in Spring Washer	1 pc
④ PM5*8 screws		3 pcs	3/4in Nut	1 pc
⑤ CM6*18 screws		4 pcs	3/8in Spring Washer	1 pc
⑥ PWM4*6 screws		4 pcs	3/8in Nut	1 pc
⑦ Visor		1 pc	3/8in Bolt	1 pc
⑧ Horizontal aiming protractor		1 pc	3/8in Flat Washers	2 pcs
SOW Cable Line (300mm with LY-176 M15 Connector)				1 pc

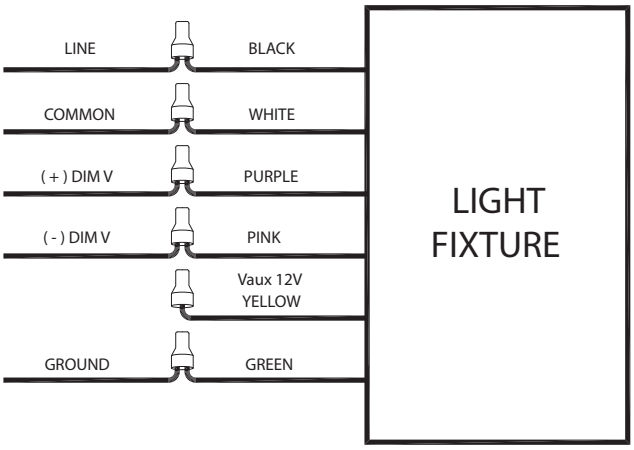
INSTRUCTIONS
LSL2 INSTALLATION

0-10V DIMMABLE WIRING

Universal voltage driver permits operation at 120V through 277V, 50 or 60 Hz. **LSL2** ordered with /480 suffix are 480V ONLY. **LSL2/480** is 208V through 480V. For 0-10V dimming follow the wiring directions as shown in Fig. 13.

1. Connect the black fixture lead to the **LINE** supply lead.
2. Connect the white fixture lead to the **COMMON** supply lead.
3. Connect the **GROUND** wire from fixture to supply ground. Do **NOT** connect the **GROUND** of the dimming fixture to the output.
4. Connect the purple fixture lead to the (V+) DIM lead.
5. Connect the pink fixture lead to the (V-) DIM lead.
6. Cap the yellow fixture lead, if present. Do NOT connect.

Fig: 13



TROUBLESHOOTING

1. Check that the line voltage at the fixture is correct. Refer to wiring directions.
2. Is the fixture grounded properly?

CLEANING & MAINTENANCE

CAUTION: Be sure fixture temperature is cool enough to touch. Do not clean or maintain while fixture is energized.

1. Clean lens with non-abrasive cleaning solution.
2. Do not open fixture to clean the LED. Do not touch the LED.

Note: *These instructions do not cover all details or variations in equipment nor do they provide for every possible situation during installation, operation or maintenance.*