

Hazardous Location LED Square Light  
Installation Instruction

Rev:A0 80571

Cautions:

- 1.Do not use any electric generator to test the LED fixture.
- 2.Please abide by related country, regional and local law and regulations when installing this fixture.
- 3.Please turn off the power before installation or maintenance.
- 4.Proper earth grounding is required to ensure safety.

Notice:

- 1.To avoid possibility of electrical shock or fire,the installation personnel must have professional electric knowledge.
- 2.Please wear gloves to avoid injury before installation.
- 3.If any smoke or spark of the wire happened. please turn off the power immediately and notify relevant personnel.
- 4.Marine Luminaires, Non-Recessed, OUTSIDE-TYPE LUMINAIRES (SALT WATER).

Attention:

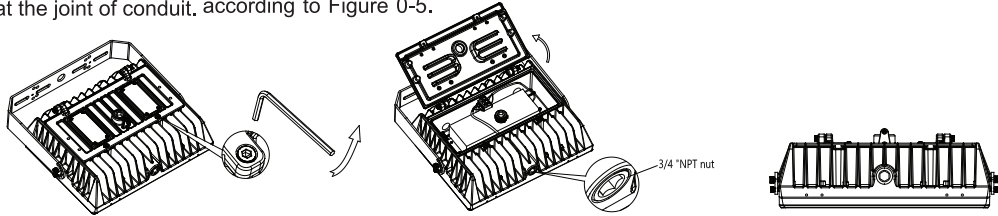
- 1.Please check if there is any damage during shipping. If so, please contact manufacturer timely.
- 2.Please read the installation instruction carefully to check whether all the accessories are complete. After confirmation, install the fixture according to installation steps.

Wiring Diagram & Instruction:

Wire and Install the fixture as follows:

- 1.Unscrew the driver box cover, as shown in Figure (0-1),the screws will not fall off;
- 2.Open the cover, there is a hanging rope at the lower left corner to prevent falling off;
- 3.Unscrew the 3/4 "NPT nut,install suitable conduit to the conduit opening, pull the wire through the conduit hole (Figure0-2)and connect it to the terminal block; Wire connected to terminal block should be Aluminum or Copper Conductors. See label at the terminal block for wiring.
- 4.Lock the driver box cover with screws.(Figure 0-3).The required torque of the screws for fixing the driver box cover is 1.5 to 1.7 N·m .
- 5.After installation, please ensure all the wiring is in accordance with local connection standard.

Note: All the conduit openings must be closed by conduit or NPT nut.When ever installing the NPT nut or conduit during installation or maintenance, please make sure to take good waterproof measures at the joint of conduit, according to Figure 0-5.



Figure(0-1)

Figure(0-2)

Figure(0-3)

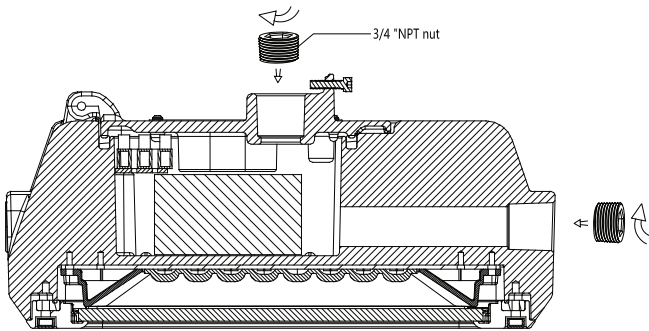


Figure 0-5

Installation Methods:

**U-bracket wall mounting; CM:ceiling mount; PM: pole mounting;HM: hanging chain mounting;TM: threaded pipe mounting;AM: adjustable fitter mounting;RAM: round fitter mounting; A&D:adjustable fitter mounting & direct mounting;DM: direct mounting;FM:flood mounting.**  
**(Choose the appropriate installation method as needed)**

U-bracket wall mounting

- 1.Make marks on the walls, and then drill holes on the marks(Figure 1-1).
- 2.Use a hammer to put the expansion screws into the holes (Figure 2-1).
- 3.The holes on the bracket should be aligned with the expansion screws(Figure 3).
- 4.Tighten the nut of the screws (Figure 4).
- 5.Hang the fixture into the lifting hook or chain and protect it from falling.(Figure 5).
- 6.Wiring according to the instructions on the first page.
- 7.After installation, please wire in accordance with local wiring standard,and make sure to take good waterproof measures at the joint of conduit. Users can adjust 30-60-90 degree to left or right from vertical downward direction by adjusting the screw on the bracket. (Figure 5.Figure A).

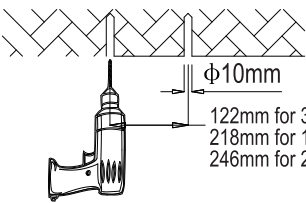


Figure 1-1

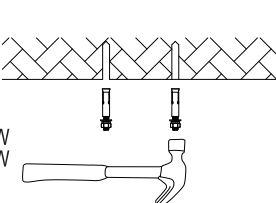


Figure 2-1

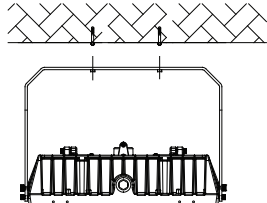


Figure 3

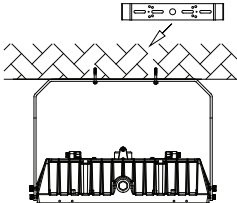


Figure 4

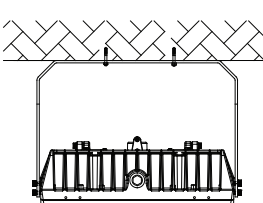


Figure 5

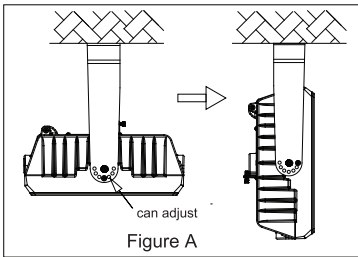


Figure A

CM:Ceiling mount

- 1.Use a chalk or sharp tool to mark signs on the top of the ceiling,then drill holes on the signs by electric drill (Figure 1-2).
- 2.Use a hammer to put the expansion screws into the holes (Figure 2-2).
- 3.The holes on the bracket should be aligned with the expansion screws, then push the fixture to one side (Figure 6).
- 4.Tighten the nut of the screws (Figure 7).
- 5.Wiring according to the instructions on the first page.
- 6.After installation, please wire in accordance with local wiring standard, and make sure to take good waterproof measures at the joint of conduit.

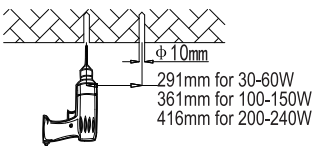


Figure 1-2

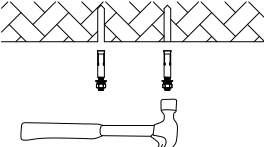


Figure 2-2

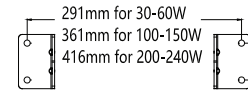


Figure 6



Figure 7

PM:Pole mounting

- 1.Can be equipped with 4 sizes of round tube light poles,the sizes are as following : ø21mm , ø27mm ø48mm , ø60mm(Figure 9).
- 2.Select the appropriate bolts (Figure 9), assemble the bolts to the fixture, and install the nuts (Figure 10).
- 3.Insert the U-shaped bolt of the fixture into the round pipe (Figure 11); tighten the bolt M6 nut, and the other M4 hex screw from the bottom of the bracket to fix the round rod (Figure 12).
- 4.Wiring according to the instructions on the first page .
- 5.After installation, please wire in accordance with local connection standard,and make sure to take good water-proof measures atthe joint of conduit.

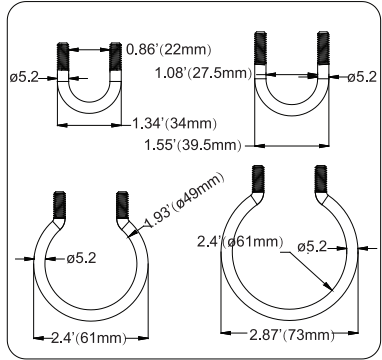


Figure 9

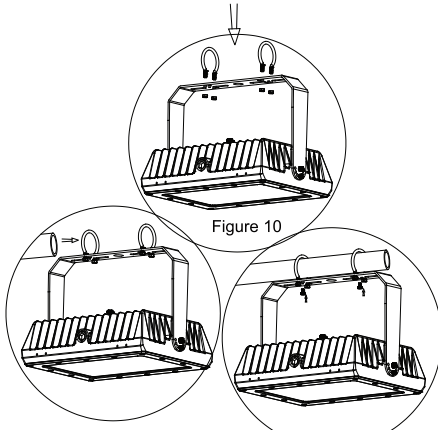


Figure 11

Figure 12

HM:hanging chain mounting

- 1.There are pre-installed rings or hooks to hang the chain hook.
- 2.Hang the fixture into the lifting hook or chain.(Figure 15)(Figure 16)
- 3.After installation, please wire in accordance with local connection standard, and make sure to take good waterproof measures at the joint of conduit
- 4.Wiring according to the instructions on the first page .

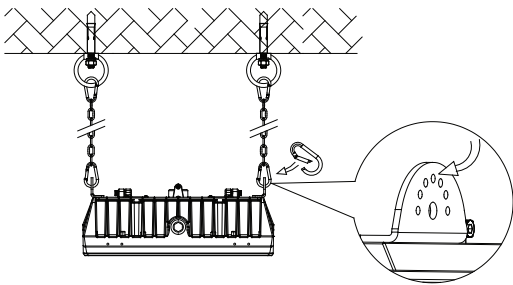


Figure 15

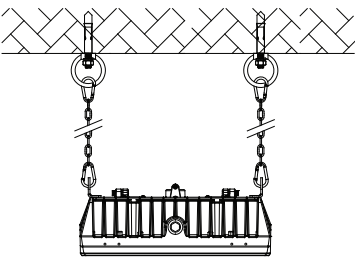


Figure 16

**TM:Threaded pipe mounting**

- 1.Remove the plugging screw (Figure 17).
- 2.Pass the wire in the threaded pipe through the hole and connect to the wire of the terminal accordingly (Figure 18).
- 3.After the wiring is completed,put the threaded pipe into the hole.turn it clockwise to tighten it.and then tighten the nearby fixing screw and hold it against the threaded pipe(Figure 19).
- 4.Lock the driver box cover with screws(Figure 20).The required torque of the screws for fixing the driver box cover is 1.5 to 1.7 Nm .
- 5.After installation,please wire in accordance with local connection standard,and make sure to take good waterproof measures at the joint of conduit.

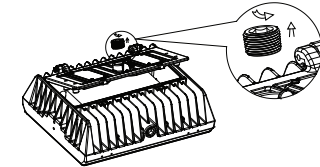


Figure 17

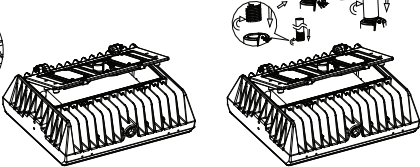


Figure 18

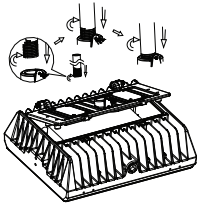


Figure 19

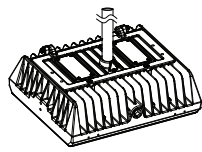


Figure 20

**AM: ADJUSTABLE FITTER MOUNTING**

**NOTE: RAM is installed in the same way as AM.**

- Step 1: Install the bracket on the lamp. (Figure 21)  
Step 2: Loosen the four bolts on AM bracket,and place the bracket into the pole and lock the four bolts. The required torque of the screws for fixing the driverbox cover is 16 to 18 Nm .

- Notice: 1、 Adjustable angle is 0-90°(Figure 23).  
2、 The diameter of round pole can be 40-60mm.  
3、 Wiring according to the instructions on the first page.

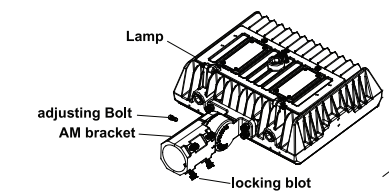


Figure 21

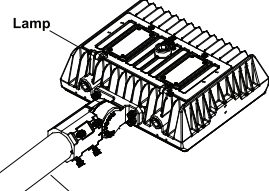


Figure 22

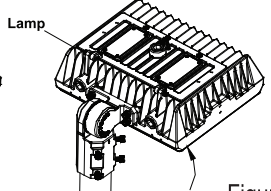


Figure 23

**A&D: ADJUSTABLE FITTER MOUNTING & DIRECT MOUNTING**

- Step 1: Install the bracket on the lamp (Figure 24).  
Step 2(for round pole): Loosen the four bolts on A&D bracket, and place the bracket into the pole and lock the four bolts. (Figure 25).  
Step 2(for square pole): Fix A&D bracket to square pole with bolt( Figure 26、 Figure27). Same as round pole installation, please remember to use the adapting plate for round pole installation( Figure 28).

- Notice: 1、 Adjustable angle is 0-90°(Figure 26).  
2、 The diameter of round pole can be 40-60mm.  
3、 Wiring according to the instruct-ions on the first page.

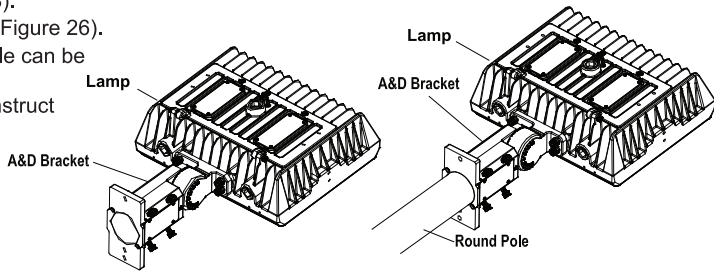


Figure 24

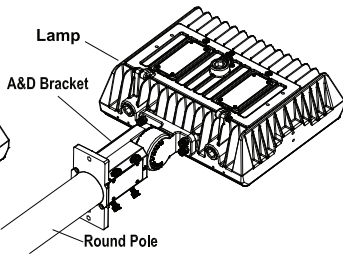


Figure 25

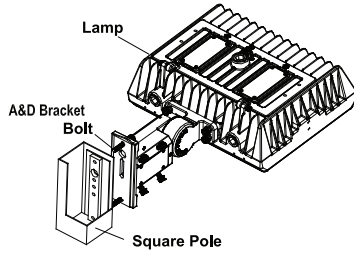


Figure 26

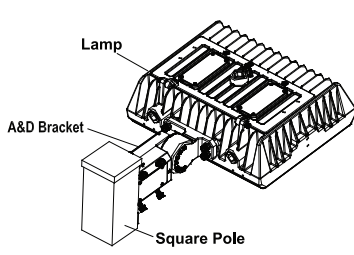


Figure 27

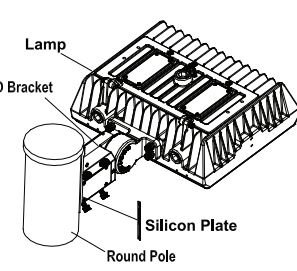


Figure 28

**DM: DIRECT MOUNTING**

- Step 1: Install the bracket on the lamp . (Figure 29)  
Step 2: Fix DM bracket to square pole with bolt( Figure 30,Figure 31)  
Notice: 1、 Adjustable angle is 0-35°(Figure 31)  
2、 Wiring according to the instructions on the first page.

Same as round pole installation, please remember to remove the silicon plate when install the fixture in round pole( Figure 32).

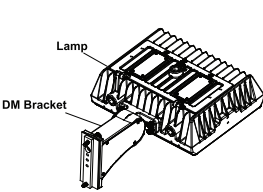


Figure 29

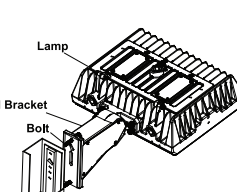


Figure 30

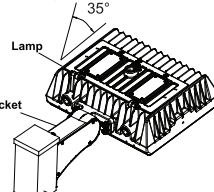


Figure 31

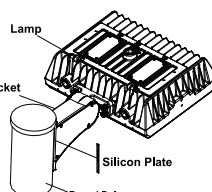


Figure 32

**FM:FLOOD MOUNTING**

- Step 1: Drill holes on the wall as shown Figure 33 .  
Step 2: Knock the expansion bolts into the wall.(Figure 34). Connect the fixture to the bracket and tighten the screws (Figure 35) .  
**Step 3:** Pass the wire in the threaded pipe through the hole and connect to the wire of the terminal  
After the wiring is completed,put the threaded pipe into the hole.turn it clockwise to tighten it.and then tighten the nearby fixing screw and hold it against the threaded pipe.  
Notice: Adjustable angle is 0-180°. (Figure 35)

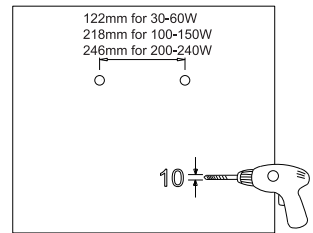


Figure 33

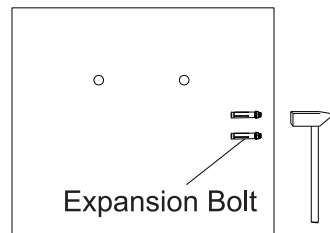


Figure 34

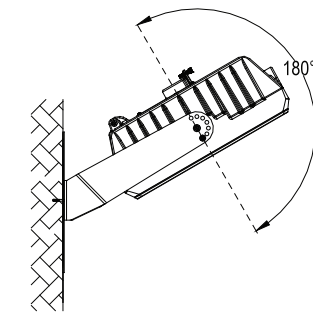


Figure 35

**Second-Retention Point**

- 1.Wire rope is necessary for the fixture before wiring. (Figure 36)
- 2.Fix the wire rope to the wire rope fixing position in the fixture.Tighten the wire rope.(Figure 37)
- 3.Fasten the other end of the wire rope to the outlet box or the mounting structure of the outlet box. (Figure 38).

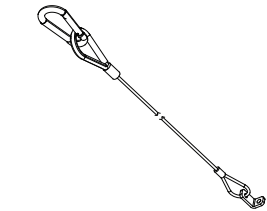


Figure 36

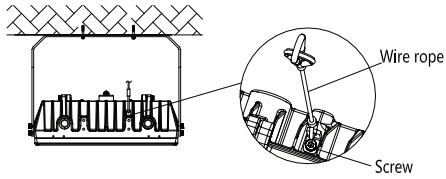


Figure 37

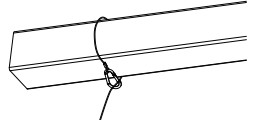


Figure 38