

INSTALLATION INSTRUCTIONS FOR LED AREA LIGHT

Items:

F-ARL/150/50K/P3	F-ARL/300/50K/P3
F-ARL/150/50K/P3/M	F-ARL/300/50K/P3/M
F-ARL/150/50K/P5	F-ARL/300/50K/P5
F-ARL/150/50K/S3	F-ARL/300/50K/S3
F-ARL/150/50K/S3/480	F-ARL/300/50K/S3/480
F-ARL/150/50K/B/S3	F-ARL/300/50K/B/S3
F-ARL/150/50K/W/S3	F-ARL/300/50K/W/S3
F-ARL/150/40K/S3	F-ARL/300/40K/S3
F-ARL/150/40K/S3/480	F-ARL/300/40K/S3/480

Read and follow all safety instructions before beginning installation

Tools Required:

Allen Hexagon Wrenches, Wire Strippers, Wire Cutters, Screwdriver



WARNING

RISK OF FIRE OR ELECTRIC SHOCK

- This product should be installed, inspected, and maintained by a qualified electrician only, in accordance with the NEC (National Electric Code) and all local codes.
- Turn off electrical power before inspection, installation or removal.
- Use only UL (or other NRTL) approved wire for input/output connections.
- Minimum size 18 AWG or 14 AWG for continuous runs.
- Make sure LEDs and drivers are cool to touch when performing maintenance.
- Ensure supply voltage is equal to the rated voltage of the luminaire.
- Do not install in a hazardous atmosphere, only where the ambient temperature does not exceed the rated operating temperature of the fixture.

Prepare Electrical Wiring



Electrical Requirements

- With 120V through 277V or 480VAC, 50/60 Hz and connected protected by a 20 ampere circuit breaker. Use min. 75°C supply.



Grounding Instructions

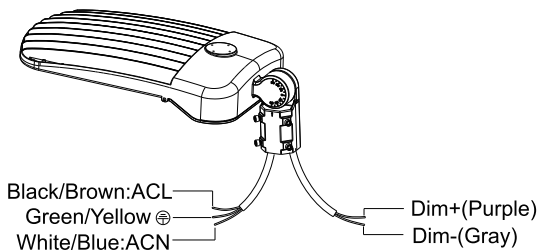
- The grounding and bonding of the overall system shall be done in accordance with NEC Article 600 and local codes

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This product is equipped with standard 1-10V dimming

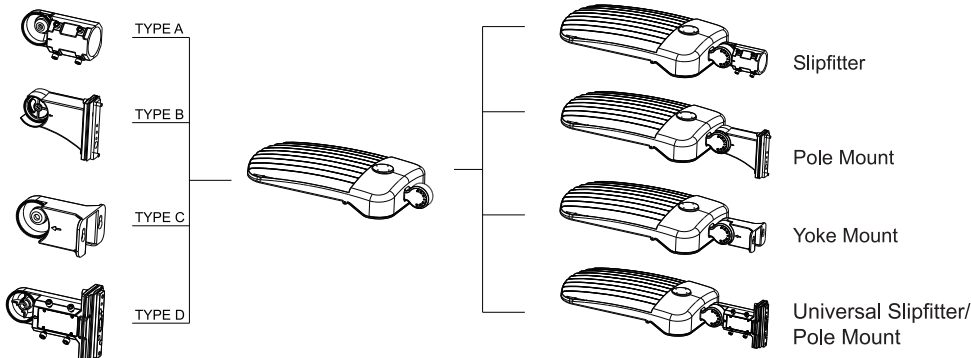
Instructions:

Wiring Diagram:



Optional Brackets and Installation Instructions:

There are 4 optional brackets for this fixture. The following is shoebox fixtures with different brackets



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Installation of LED Luminaire

1. ADJUSTABLE FITTER MOUNTING (TYPE A)

Step 1: Loosen the four bolts on AM bracket, connect the wires correctly, and pull the wires into the poles. (Figure 9)

Step 2: Place the bracket into the pole and lock the four bolts. (Figure 10)

Notice: Adjustable angle is 0-90° (Figure 9)

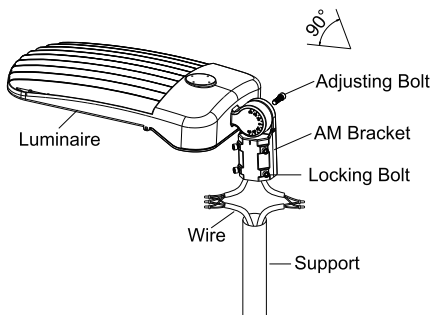


Figure 9

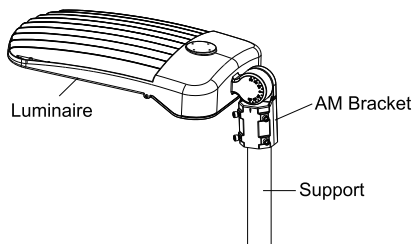


Figure 10

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2. POLE MOUNTING (TYPE B)

Square Pole Installation Solution: Put both Cambered Thick Silicone Pad and Square Thin Silicone Pad (Figure 12)

Round Pole Installation Solution: Put Square Thin Silicone Pad only, remove Cambered Thick Silicone Pad (Figure 13)

Notice: Adjustable angle is 0-45° (Figure 13)

① Square Thin Silicone Pad

② Cambered Thick Silicone Pad

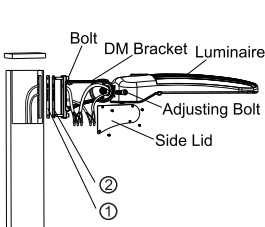


Figure 11

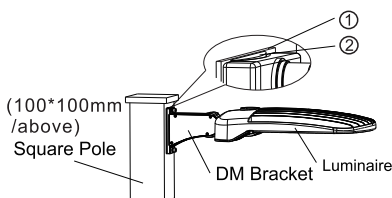


Figure 12

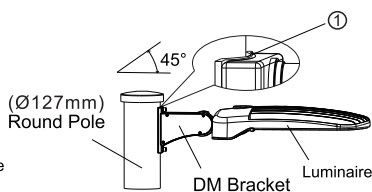


Figure 13

3. YOKE MOUNTING (TYPE C)

Step 1: Drill holes on the wall as shown. (Figure 14)

Step 2: Knock the expansion bolts into the wall. (Figure 15)

Step 3: Connect the fixture to the bracket and tighten the screws; connect the wires properly and put them into junction box. (Figure 16)

Notice: Adjustable angle is 0-90° (Figure 16)

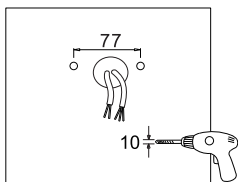


Figure 14

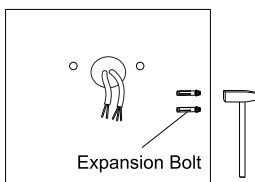


Figure 15

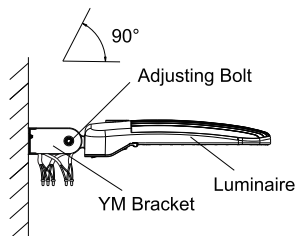


Figure 16

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4. ADJUSTABLE FITTER MOUNTING & POLE MOUNTING (TYPE D)

4.1 ADJUSTABLE FITTER MOUNTING

Step 1: Remove the spare parts from A&D bracket. (Figure 17)

Step 2: Loosen the four bolts on A&D bracket, connect the wires correctly, and pull the wires into the poles. (Figure 18)

Step 3: Place the bracket into the pole and lock the four bolts. (Figure 18)

Notice: Adjustable angle is 0-90° (Figure 18)

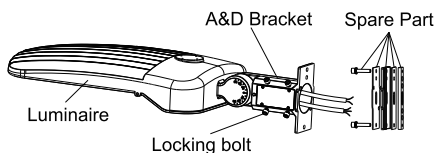


Figure 17

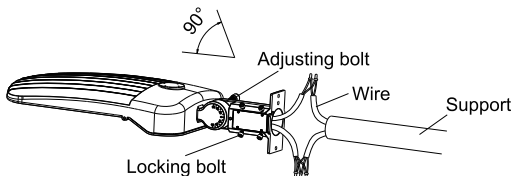


Figure 18

4.2 POLE MOUNTING

Step 1: Remove the four bolts from A&D bracket, remove the four rubber plugs from installation bar, put the four rubber plugs on the place where the four bolts were previously placed on the bracket for waterproof purpose (Figure 19)

Step 2: Fix A&D bracket to square pole with bolt, open the cover of A&D bracket junction box, pull the wire into bracket junction box, connect the wire properly and cover the junction box. (Figure 20)

Notice: Adjustable angle is 0-90°. (Figure 20)

Same as round pole installation, please remember to use the adapting plate for round pole installation (Figure 21)

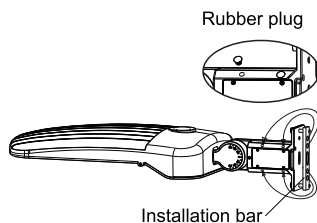


Figure 19

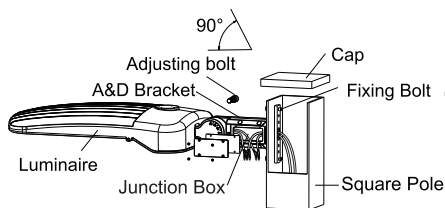


Figure 20

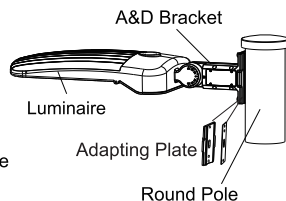


Figure 21

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Instructions for Photocell (Figure 22)

When the photocell function is required, photocell should be installed on the back of luminaire; If not being used, shorting cap should be installed in its place.

Instructions for Motion sensor (Figure 23)

Open the cover above motion sensor by loosen the screws.
 Set the motion sensor through DIP switches as per actual requirements.
 Lock the cover above the motion sensor through screws.

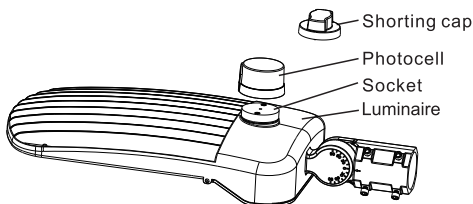


Figure 22

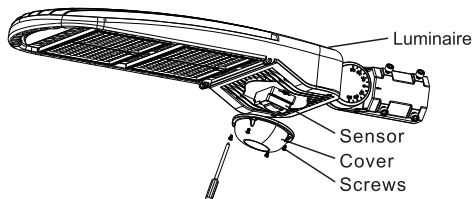
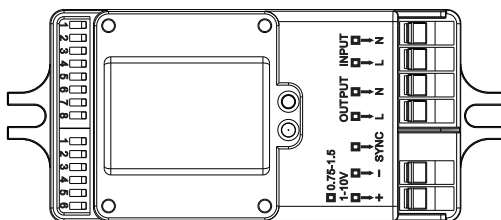
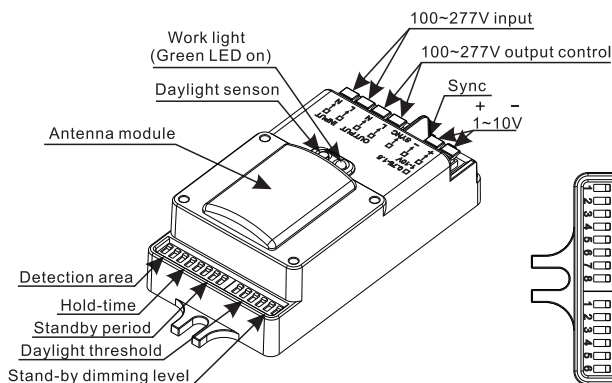


Figure 23

Structure of motion sensor



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		1	2	
ON ▲ ■	I	ON	ON	100%
	II	ON	—	75%
	III	—	ON	50%
	IV	—	—	10%

Function of DIP switches:

Detection area

Detection area can be reduced by selecting the combination on the DIP switches to fit precisely each application.

Factory setting: I

		3	4	5	
ON ▲ ■	I	ON	ON	ON	5s
	II	—	ON	ON	30s
	III	ON	—	ON	90s
	IV	—	—	ON	3min
	V	ON	ON	—	20min
	VI	—	—	—	+∞

Hold time

Refers to the time period the lamp remains at 100% illumination after no motion detected.

Factory setting: I

		6	7	8	
ON ▲ ■	I	ON	ON	ON	0s
	II	—	ON	ON	5s
	III	ON	—	ON	5min
	IV	—	—	ON	10min
	V	ON	ON	—	30min
	VI	—	ON	—	1h
	VII	—	—	—	+∞

Stand-by period

Refers to the time period the lamp remains at a low light level before it completely switches off in the long absence of people.

When set to "+∞" mode, the low light is maintained until motion is detected.

Factory setting: I

		1	2	3	4	
ON ▲ ■	I	—	—	ON	ON	2Lux
	II	—	—	—	ON	5Lux
	III	—	ON	ON	—	10Lux
	IV	—	—	ON	—	25Lux
	V	—	ON	—	—	50Lux
	VI	ON	—	—	—	100Lux
	VII	—	—	—	—	Disable

Daylight sensor

The sensor can be set to only allow the lamp to illuminate below a defined ambient brightness threshold.

When set to Disable mode, the daylight sensor will switch on the lamp when motion is detected regardless of ambient light level.

50lux, 30lux: twilight operation, 10lux, 5lux: darkness operation only.

Note that daylight sensor is active only when lamp totally switches off.

Factory setting: VII

		5	6	
ON ▲ ■	I	ON	ON	50%
	II	—	ON	30%
	III	ON	—	20%
	IV	—	—	10%

Stand-by dimming level

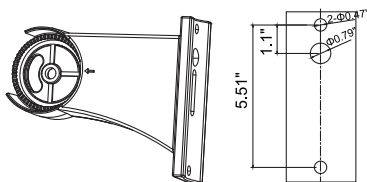
The low light level you would like to have after the hold time in the long absence of people.

Factory setting: I

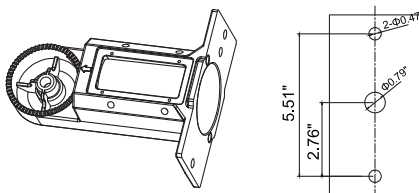
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Drilling Instructions For Brackets

Pole Mount

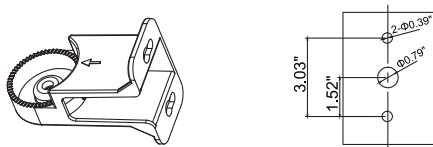


Universal Mount



Instructions to open a knockout: drill two through-holes with diameter of 0.47" on the steel plate plane. The distance between the two holes is 5.51". The center point of the two holes must be on the same straight line.

Yoke Mount



Instructions to open a knockout: drill two through-holes with diameter of 0.39" on the steel plate plane. The distance between the two holes is 3.03". The center point of the two holes must be on the same straight line.