H EVO-SERIES





































Overview

The KULON® H EVO-Series LED street lights are using PHILIPS LUMILEDS® luminous source, providing excellent lumen output, long-lasting stability and splendid sight.

The KULON H EVO-Series LED street lights have a high luminous efficiency and better service life. Provide 7 years warranty on luminaire.

Color Options

Silver Grav

Black

HIGH-EFFICACY LED LIGHT SOURCE



Philips Lumileds Luxeon TX Greater than 135lm/W high efficacy, illumination grade LED light source.



Philips Lumileds 3030 2D Greater than 150lm/W high efficacy, illumination grade LED light source.



Philips Lumileds 5050 Greater than 185lm/W high efficacy, illumination grade LED light source.

HIGH-END LED DRIVER (Two options)

+ NON-DIMMABLE



High-end Mean Well HLG Series LED driver, optimal stability, performance and lifespan.

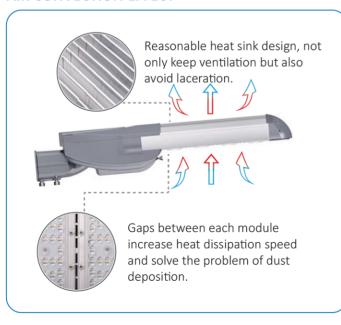
+ DIMMABLE

POWERED BY

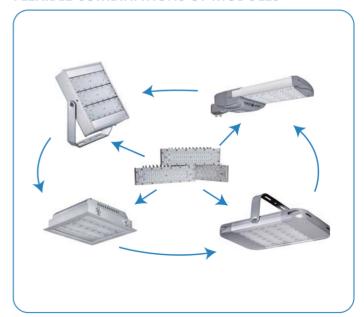
INVENTRONICS

High-end Inventronics programmable LED driver, integrate dimming function and 6KV /10KV surge protection. Provide excellent performance and lifespan.

AIR CONVECTION EFFECT



FLEXIBLE COMBINATIONS OF MODULES

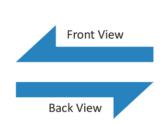


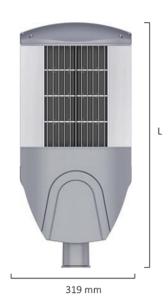


Design

★ External Design









139 mm

Number of Modules	1	2	3	4	5	6	7
"L" Length	478 mm	551 mm	624 mm	697 mm	770 mm	843 mm	916 mm
Weight	5.75 kg	6.55 kg	7.75 kg	8.65 kg	9.45 kg	10.35 kg	11.25 kg

★ Design Features



Professional lens design, suitable for various applications.



Luminaire body is fixed by two M8x16 fortified stainless steel screws.



Rational clamshell design for wiring compartment, sturdy and durable.



Use stainless steel screws for whole luminaire, no corrosion worries.



Use German Mage connectors for internal wiring, safe, convenient & fast.



Innovative pluggable connector, clean & efficient.



Neat inner cavity structure, ensure the thermal convection of LED driver.

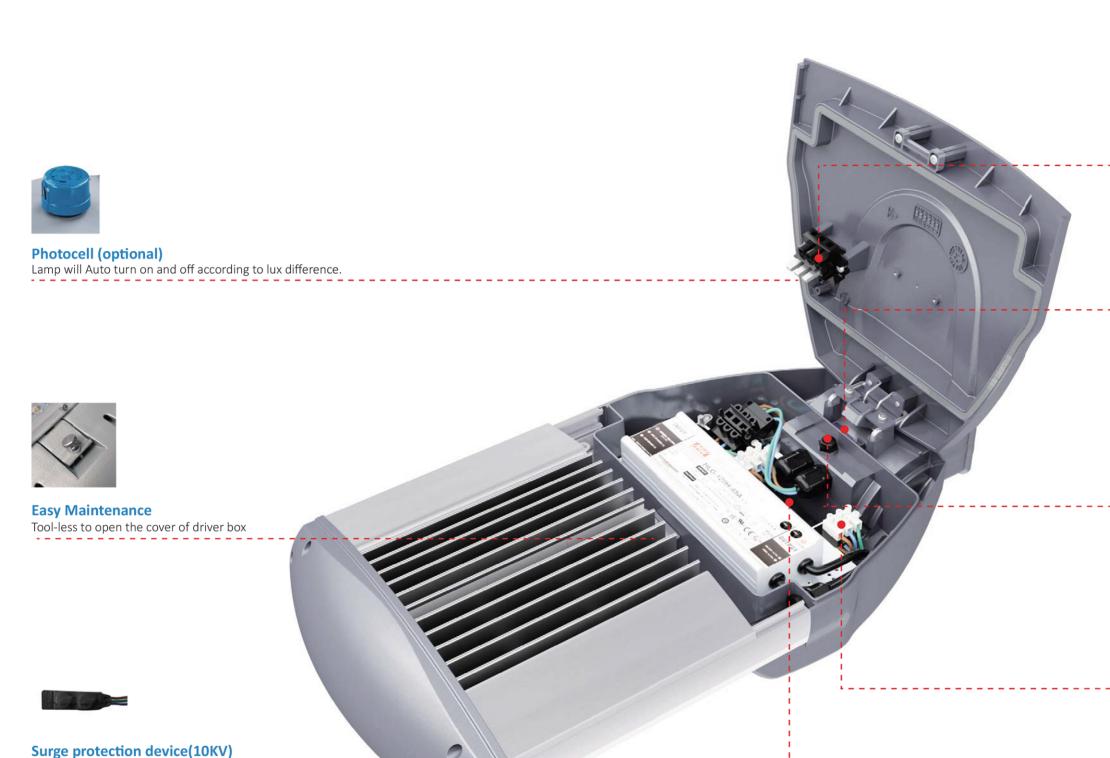


Full aluminum made, sufficient heat dissipation area.



DETAILED FEATURES

Electrical & Photometric





Power off protector (optional)

When open the cover of driver box to make the maintenance, the power supply will be cut off immediately to protect personal safety.



Level bubble

Easy for the installer to adjust the position of the lamp



Imported breather

Lamp breather ensures air balance inside and outside of the lamp, which improves lamp service life.



Connect base

Disassemble easily which reduces maintenance costs.



To provide more reliable guarantee for LED driver,

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extend the life of the product.



Electrical & Photometric

★ 3030 Version

A 3030 V	CISIOII											
Number of Modules	Model	LED Working Current	Power	Luminaire Efficacy (+/- 5%)	Lumen Output (+/- 5%)	Input Voltage	LED Brand	Driver Brand	Light Distributions	сст (к)	Surge Protection Device	Lifetime (h)
	K-LD40WH4+	95mA	40W	140 lm /w	5600 lm							
1	K-LD50WH5+	115mA	50W	130 lm /w	6500 lm							
	K-LD60WH6+	145mA	60W	125 lm /w	7500 lm							
	K-LD80WH4+	100mA	80W	140 lm /w	11200 lm							
2	K-LD100WH5+	120mA	100W	130 lm /w	13000 lm							
	K-LD120WH6+	145mA	120W	125 lm /w	15000 lm	100-240V /277V AC 50 /60Hz	Philips Lumileds	MeanWell	Typel, Medium Typell, Medium Typelll, Medium	3000* 4000	10KV	
	K-LD120WH4+	100mA	120W	140 lm /w	16800 lm							>100,000
3	K-LD150WH5+	120mA	150W	130 lm /w	19500 lm	AC 50 /60Hz	3030 2D	Inventronics	TypeV, Short TYPEII, BLS	5000 5700		(L70)
	K-LD180WH6+	145mA	180W	125 lm /w	22500 lm	AC 50 /60Hz			TTPEII, BLS			
	K-LD160WH4+	100mA	160W	140 lm /w	22400 lm							
4	K-LD200WH5+	120mA	200W	130 lm /w	26000 lm							
	K-LD240WH6+	145mA	240W	125 lm /w	30000 lm							
-	K-LD200WH4+	100mA	200W	140 lm /w	28000 lm							
5	K-LD240WH5+	120mA	240W	130 lm /w	31200 lm							

^{*}Luminous Efficacy of 3000K is 5% lower than other CCTs.

★ 3535 Version

Number of Modules	Model	LED Working Current	Power	Luminaire Efficacy (+/- 5%)	Lumen Output (+/- 5%)	Input Voltage	LED Brand	Driver Brand	Light Distributions	CCT (K)	Surge Protection Device	Lifetime (h)
1	K-LD35WH+	750mA	35W	110 lm /w	3850 lm							
•	K-LD40WH2+	860mA	40W	110 lm /w	4400 lm	100-240V /277V Philip AC 50 /60Hz Lu		MeanWell Inventronics		3000* 4000 5000 5700	10KV	
2	K-LD65WH+	750mA	65W	110 lm /w	7150 lm							
2	K-LD80WH2+	900mA	80W	110 lm /w	8800 lm							
3	K-LD100WH+	750mA	100W	110 lm /w	11000 lm		Philips Lumileds Luxeon TX					
3	K-LD120WH2+	900mA	120W	110 lm /w	13200 lm				Typel, Medium Typell, Medium Typelll, Medium TypeV, Short			
4	K-LD135WH+	750mA	135W	110 lm /w	14850 lm							>100,000 (L70)
4	K-LD160WH2+	900mA	160W	110 lm /w	17600 lm							
F	K-LD165WH+	750mA	165W	110 lm /w	18150 lm							
5	K-LD200WH2+	900mA	200W	110 lm /w	22000 lm							
	K-LD200WH+	750mA	200W	110 lm /w	22000 lm							
6	K-LD240WH2+	900mA	240W	110 lm /w	26400 lm							
7	K-LD230WH+	750mA	230W	110 lm /w	25300 lm							
7	K-LD280WH2+	900mA	280W	110 lm /w	30800 lm							

^{*}Luminous Efficacy of 3000K is 5% lower than other CCTs.







★ 5050 Version

Number of Modules	Model	LED Working Current	Power	Luminaire Efficacy (+/- 5%)	Lumen Output (+/- 5%)	Input Voltage	LED Brand	Driver Brand	Light Distributions	сст (к)	Surge Protection Device	Lifetime (h)
	K-LD40WH4+	48mA	40W	165 lm /w	6600 lm							
1	K-LD50WH5+	59mA	50W	160 lm /w	8000 lm							
	K-LD60WH6+	75mA	60W	155 lm /w	9300 lm	100-240V/277V AC 50/60Hz						
	K-LD80WH4+	50mA	80W	165 lm /w	13200 lm							
2	K-LD100WH5+	61mA	100W	160 lm /w	16000 lm		Philips Lumileds	MeanWell Inventronics	Typell, Medium Typelll, Medium TypeV, Short	3000* 4000 5000 5700	10KV	
	K-LD120WH6+	75mA	120W	155 lm /w	18600 lm							
	K-LD120WH4+	50mA	120W	165 lm /w	19800 lm							>100,000
3	K-LD150WH5+	58mA	150W	160 lm /w	24000 lm	AC 50 /60Hz	5050					(L70)
	K-LD180WH6+	75mA	180W	155 lm /w	27900 lm							
	K-LD160WH4+	50mA	160W	165 lm /w	26400 lm							
4	K-LD200WH5+	58mA	200W	160 lm /w	32000 lm							
	K-LD240WH6+	75mA	240W	155 lm /w	37200 lm							
5	K-LD200WH4+	50mA	200W	165 lm /w	33000 lm	100-240V /277V AC 50 /60Hz						
5	K-LD240WH5+	61mA	240W	160 lm /w	38400 lm							

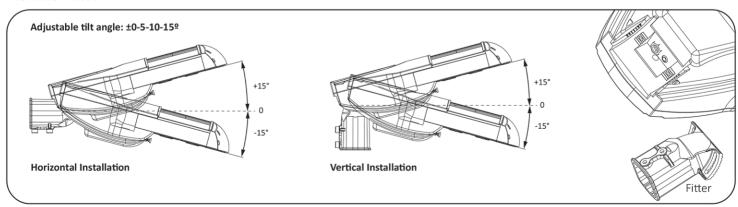
^{*}Luminous Efficacy of 3000K is 5% lower than other CCTs.

Working Environment & Packing

Number of Modules	Working Environment	Storage Temperature	Rating	CRI	Power Factor	Power Efficiency	Material	Pole Diameter (mm)	Product Dimensions (mm)	Carton Size (mm)	N.W (kg)	G.W (kg)			
1						>90%			478*316*139	520*370*200	5.75	7.05			
2					>0.95				551*316*139	595*370*200	6.55	8.05			
3							Housing:		624*316*139	670*370*200	7.75	9.35			
4	-40 ºC ~ +50 ºC 10% ~ 90%RH	-40 ºC ~ +50 ºC	Class I IP66 IK10	>70			Die-cast aluminum; Heat sink: Stretched Aluminium Alloy;	60	697*316*139	745*370*200	8.65	10.35			
5										Lens: PC	•	770*316*139	820*370*200	9.45	11.35
6									843*316*139	895*370*200	10.35	12.35			
7									916*316*139	970*370*200	11.25	13.35			

Note: Above data of weight are all typical values.

Flexible Fitter





Multiple Light Distribution Options

Street light should fit with a wide range of applications, such as highway, express way, roadway, avenue, walking path or parking lot lightings. Considering this, KULON provides different light distribution lens for the H EVO Series street light to achieve best lighting effect in different applications. KULON follows the North American IESNA standard in providing the optional lens width ,TypeI, Type II ,Type III and Type V.

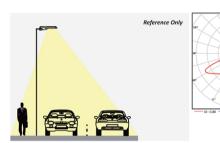
Type I is suitable for walking path with 1 lane, Type II is for 2 lanes and Type III is for even more wider road, Type V is for parking lot.

KULON selects the most suitable lens for its customers according to the detailed parameters project by project.



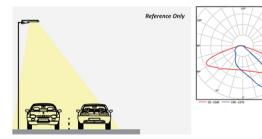
TYPE I

The Type I lens of KULON H EVO series street light has beam angle of 50*160 degrees. In the IESNA Standard, The Type I distribution is great for lighting walkways, paths and sidewalks. It is generally applicable to where the mounting height is approximately equal to the roadway width.



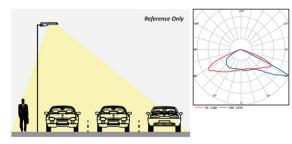
TYPE I

The Type II lens of KULON H EVO series street light has beam angle of 65*155 degrees. In the IESNA Standard, the Type II distribution is used for wide walkways, on ramps and entrance roadways, as well as other long, narrow lighting. It is generally applicable to where the width of the roadway does not exceed 1.75 times the designed mounting height.



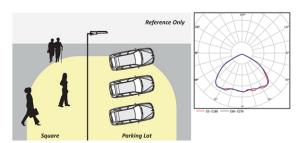
TYPEII BLS

The Type II BLS is a new light distribution developed based on Type II. BLS means back light shield. The light on the back of pole be reduced and the light in front of the pole be increased accordingly. It is generally applicable to where no need or need less light on the back of pole, such as residential area, high way, bridge and etc.



TYPE III

The Type III lens of KULON H EVO series street light has beam angle of 80*160 degrees. In the IESNA Standard, the Type III distribution is meant for roadway lighting, general parking areas and other areas where a larger area of lighting is required. This distribution is intended for luminaires mounted at or near the side of medium width roadways or areas, where the width of the roadway or area does not exceed 2.75 times the mounting height.



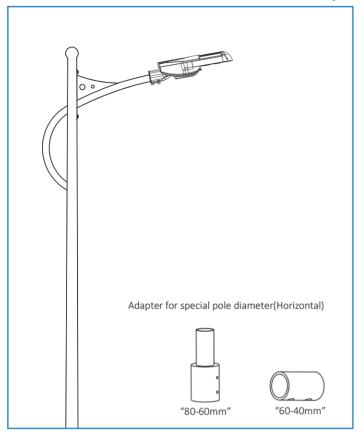
TYPE V

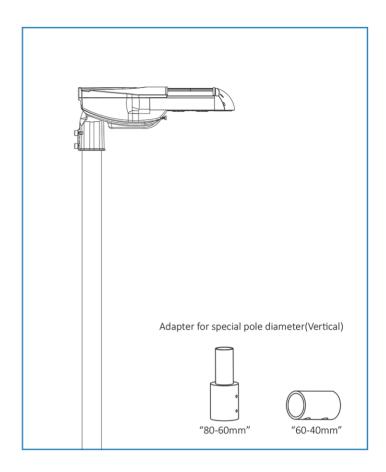
The Type V lens of KULON H EVO series street light has beam angle of 110*110 degrees. In the IESNA Standard, It is intended for luminaire mounting at or near center of roadways, center islands of parkway, and intersections. It is also meant for large, commercial parking lot lighting as well as areas where sufficient, evenly distributed light is necessary.

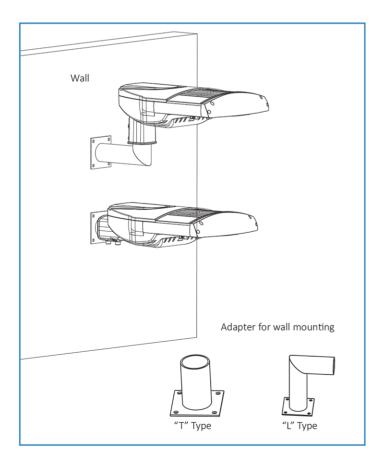


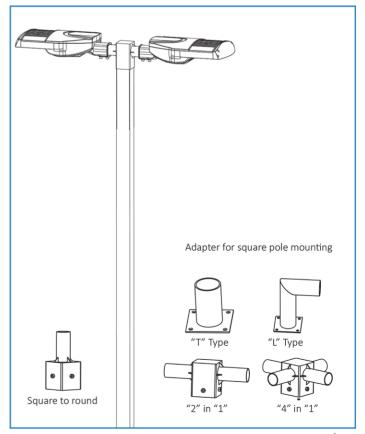


Various Installation Methods With Different Adapters



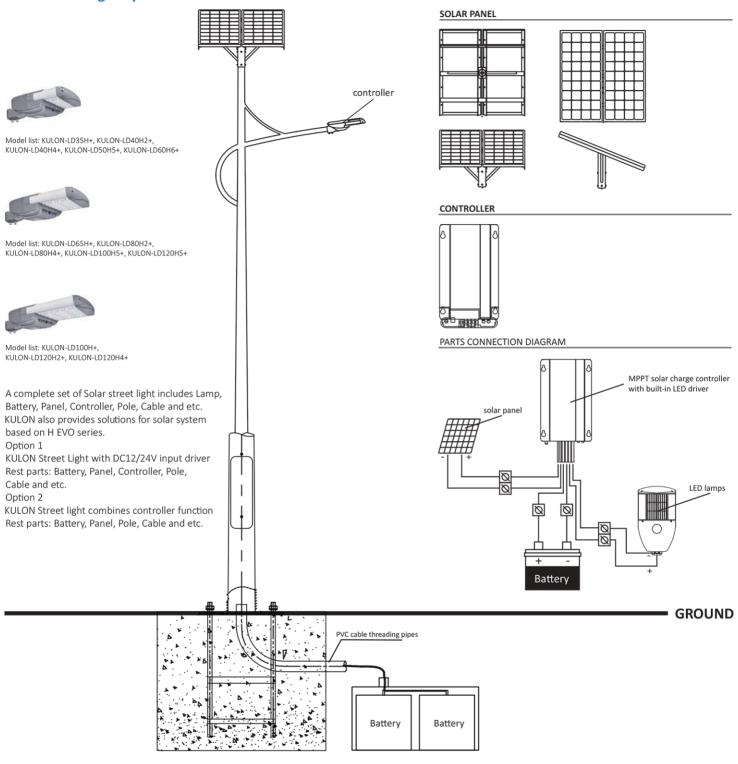








Solar Street Light System



Customized service

Due to each city has its own sunshine condition, and customers have different working hours and rainy days on request.

If you want to know more exact configuration, please contact us for below questions:

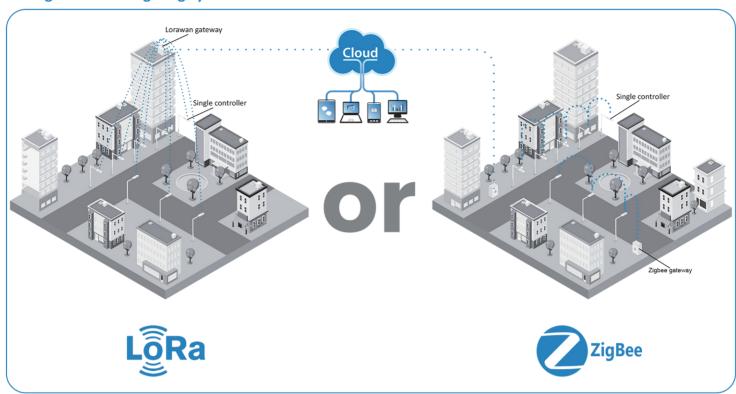
- 1. What is the geographical location your solar LED street lighting system will be installed?
- 2. How many hours per night the LED street light works?
- 3. How many days to backup in case of continuous rainy days?
- 4. Do you need dimming the LED street light (during the off-peak hours)?
- 5. Do you have any other requirements?







Intelligence Street Lighting System



KULON provides a total solution for intelligence street lighting system.

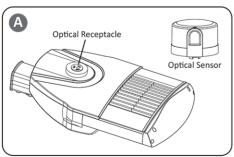
KULON street light intelligence system is made up by software, gateway, single light controller. The gateway is installed in the distribution cabinet, the single light controller is installed in the lighting terminal. It proceeds with communication via GPRS/ CDMA/ WCDMA wireless network or cable network & monitor center and proceeds with communication via ZIGBEE/ PLC/ LORA.

Gateway can control each single light controller via receiving, executing, forwarding PC management software, which can control each lamp's switching on/ off or dimming, then save electric energy. It can also monitor the lamps' electric energy to achieve failure lamps function. Gateway can built-in DO to achieve street light loop control, it can connect with other equipment to collect local illumination, temperature and other information, feedback to PC management software and achieve to monitor the current information.

At present, all our series of LED street lights can be combined with the intelligence street lighting system... If you want to know more, please contact KULON Team.

Optical Control

Optical control function is supported by optional



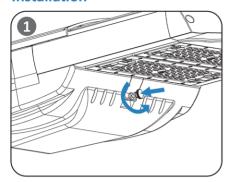
If the fixture with OPTICAL CONTROL function, the Optical Receptacle will be installed on the cover of fixture. See (4). Fit the pins of Optical Sensor to Optical Receptacle, firmly insert and rotate Optical Sensor to proper position.

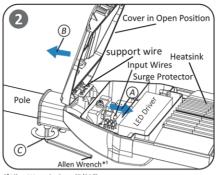


Optical Sensor



Installation





*1Allen Wrench: 6mm(7/32")
*1Inner Hexagon Screw: M8(5/16")

4

STEP 1:

Loosen the limit screw counterclockwise, press the screw to open the cover of driver box, make sure the support wire falls in the limit groove.

STEP 2:

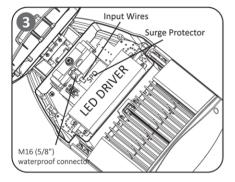
Keep the cover in open position(make sure the support wire falls in the limit groove), lead the **Input Wires** in through the M16 (5/8") water-proof connector (see (a)), Do not tighten. Slide fixture onto pole (see (b)) and adjust to level position. Once desired position is achieved, tighten (2) mounting bolts (see (c)). Recommended torque: 17Nm ± 1Nm.

STEP 3:

Connect the **Input Wires** into **Terminal Block**, Reference "**Electrical Connections**" section for completing electrical connections. **Tighten the M16 water-proof connector**, **Make sure the input wires do not move.**

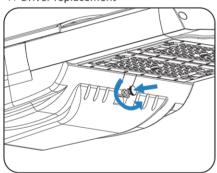
STEP 4:

Close the cover, tighten the limit screw clockwise.



Maintenance

★ Driver replacement

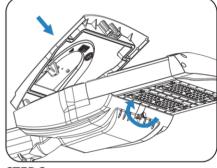


STEP 1:

Loosen the limit screw counterclockwise, press the screw to open the cover of driver box, make sure the support wire falls in the limit groove.

STEP 2

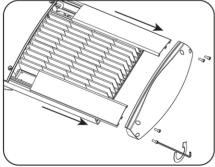
Keep the cover in open position, unscrew the four M4X6 screws(see()) and pull out the input of driver from Terminal Block(see()) by cross screwdriver, disconnect the driver from the WAGO connect, take off the failed driver and replace by a new one.



STEP 3:

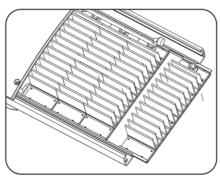
Connect and tighten up each part back step by step. Maintenance finished.





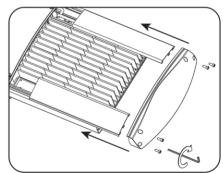
STEP 1:

Unscrew the four M5x12 screws by 4mm (5/32") allen wrench and pull out the lamp head. then Pull out the cover both sides by hand.



STEP 2:

Disconnect the failed module from connector and replace a new one.



STEP 3:

Connect and tighten up each part back step by step. Maintenance finished.





- for Road, China



- for Squares, UAE



- with Solar Power, France



- for Parking Lots, United Kingdom



- for Outdoor Warehouses, Austria



- for Wall Mounting, Sweden





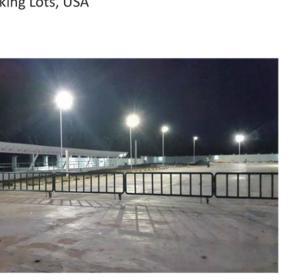
- for Amusement Park, Mexico



- for Road, China



- for Parking Lots, USA



- for Gas Station, Nigeria



- for Road, Iraq

