SD2 -SERIES

MKLIGHTS
Make Light For You, Make The City Bright

UKAS QUALITY MANAGEMENT
ISO9001 ISO14001 ISO50001

LUMILEDS The Brighter Choice

POWERED BY MW

C€

RoHS Compliant

IP66 IK10

LM-80

5 YEAR WARRANTY

LED STREET LIGHTS

SERIES-SD2
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PRODUCT CATALOG

SERIES-SD2
LED STREET LIGHTS

PRODUCT CATALOG

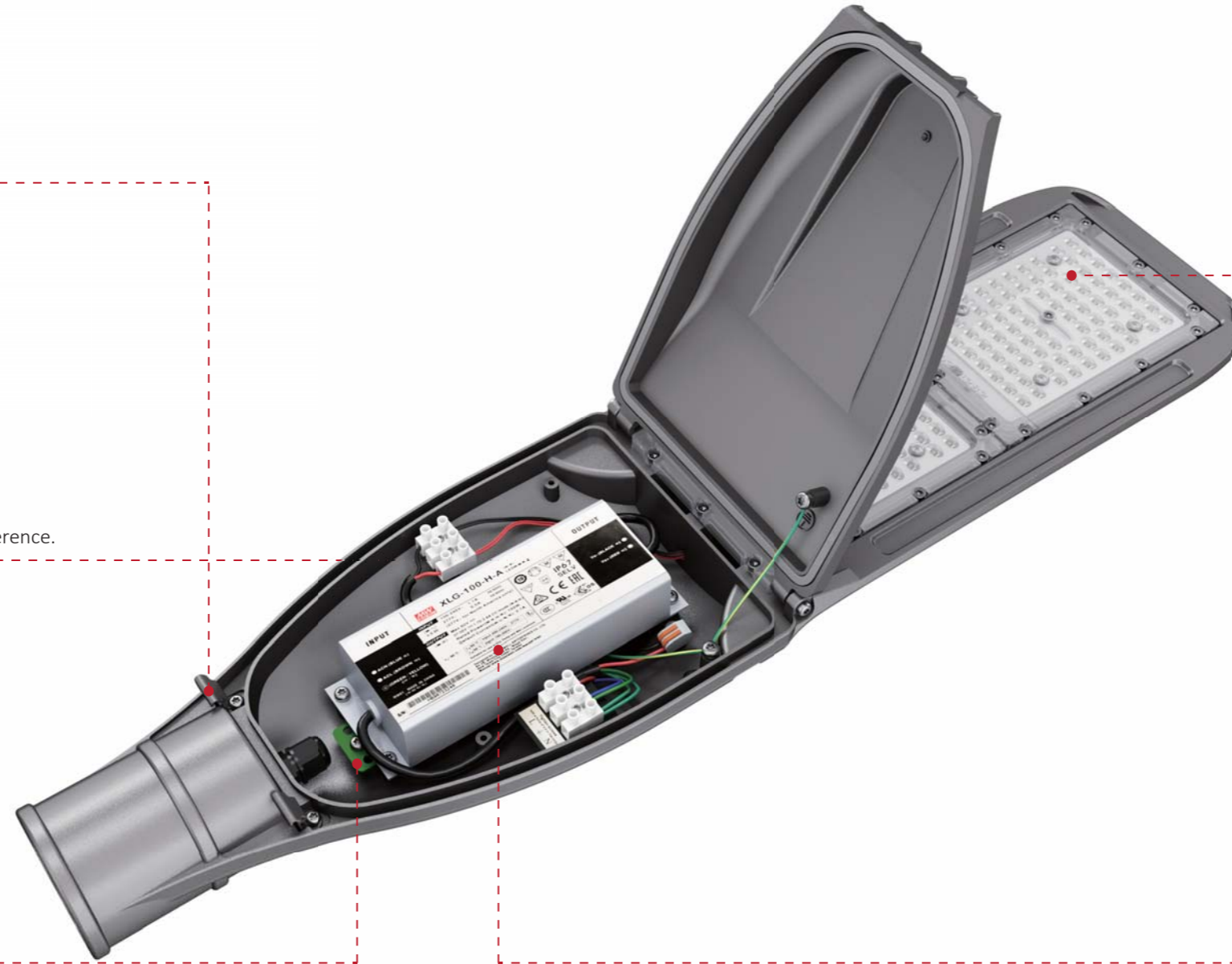## Easy Maintenance
Tool-less to open the cover of driver box

Photocell available
Lamp will Auto turn on and off according to lux difference.

Surge protection device(10KV)
To provide more reliable guarantee for LED driver, extend the life of the product.

High-efficacy 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.

LED power supply

+ NON-DIMMABLE
High-end MeanWell XLG Series LED driver, optimal stability, performance and lifespan.

POWERED BY
INVENTRONICS

+ DIMMABLE
High-end programmable Inventronics LED driver, integrate dimming function and surge protection. Provide excellent performance and lifespan.

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Φ 60mm

178 mm

717 mm

99 mm
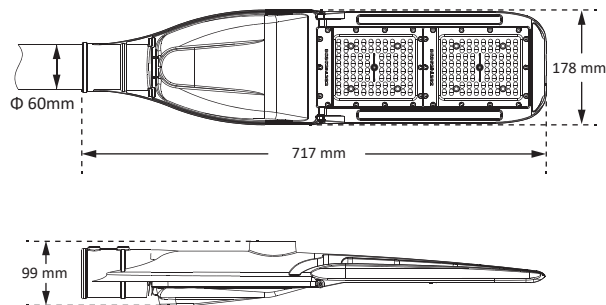
Electrical & Photometric
★ 3030 Version

Series	Model	LED Qty/ Current	Power	Luminaire efficacy (+/- 5%)	Lumen Output (+/- 5%)	Input Voltage	LED Brand	Driver Brand	Light Distributions	CCT (K)	Surge Protection Device	Lifetime (h)
SD2	MK-SD2-60	80units /116mA	60W	140 lm /w	8400 lm	100-240V /277V AC 50 /60Hz	Philips Lumileds 3030 2D	MeanWell Inventronics	TypeII, Medium	3000* 4000 5000 5700	10KV (20KV optional)	>100,000 (L70)
	MK-SD2-60+	160units /58mA	60W	153 lm /w	9180 lm							
	MK-SD2-70	80units /135mA	70W	135 lm /w	9450 lm							
	MK-SD2-70+	160units /68mA	70W	153 lm /w	10710 lm							
	MK-SD2-80	112units /112mA	80W	144 lm /w	11520 lm							
	MK-SD2-80+	160units /78mA	80W	153 lm /w	12240 lm							
	MK-SD2-90	112units /126mA	90W	140 lm /w	12600 lm							
	MK-SD2-90+	160units /88mA	90W	150 lm /w	13500 lm							
	MK-SD2-100	112units /140mA	100W	137 lm /w	13700 lm							
	MK-SD2-100+	160units /98mA	100W	146 lm /w	14600 lm							
	MK-SD2-110	160units /110mA	110W	143 lm /w	15730 lm							
	MK-SD2-120	160units /118mA	120W	140 lm /w	16800 lm							
	MK-SD2-130	160units /126mA	130W	136 lm /w	17680 lm							

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

★ 5050 Version

Series	Model	LED Qty/ Current	Power	Luminaire efficacy (+/- 5%)	Lumen Output (+/- 5%)	Input Voltage	LED Brand	Driver Brand	Light Distributions	CCT (K)	Surge Protection Device	Lifetime (h)
Kmini2	MK-SD2-60	32units /76mA	60W	153 lm /w	9180 lm	100-240V /277V AC 50 /60Hz	Philips Lumileds 5050	MeanWell Inventronics	TypeII, Medium (BLS)	3000* 4000 5000 5700	10KV (20KV optional)	>100,000 (L70)
	MK-SD2-60+	56units /44mA	60W	163 lm /w	9780 lm							
	MK-SD2-70	32units /89mA	70W	150 lm /w	10500 lm							
	MK-SD2-70+	56units /51mA	70W	160 lm /w	11200 lm							
	MK-SD2-80	44units /75mA	80W	156 lm /w	12480 lm							
	MK-SD2-80+	56units /59mA	80W	160 lm /w	12800 lm							
	MK-SD2-90	44units /85mA	90W	153 lm /w	13770 lm							
	MK-SD2-90+	56units /66mA	90W	157 lm /w	14130 lm							
	MK-SD2-100	44units /94mA	100W	150 lm /w	15000 lm							
	MK-SD2-100+	56units /74mA	100W	154 lm /w	15400 lm							
	MK-SD2-110	56units /82mA	110W	155 lm /w	17050 lm							
	MK-SD2-120	56units /90mA	120W	152 lm /w	18240 lm							
	MK-SD2-130	56units /97mA	130W	150 lm /w	19500 lm							

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

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Light Distribution Diagram

3030 Version TYPE II

C0 - C180   C90 - C270   unit: cd
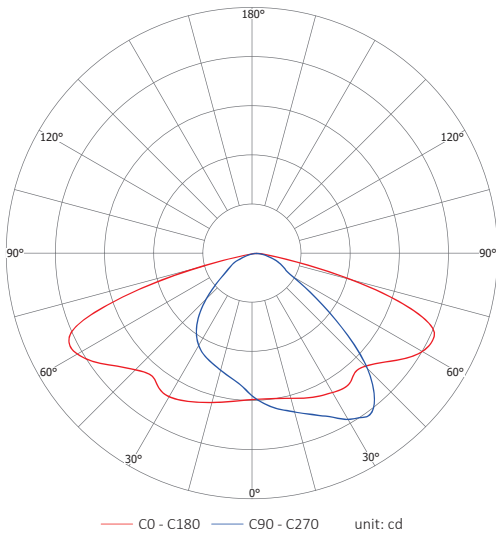
5050 Version TYPE II BLS

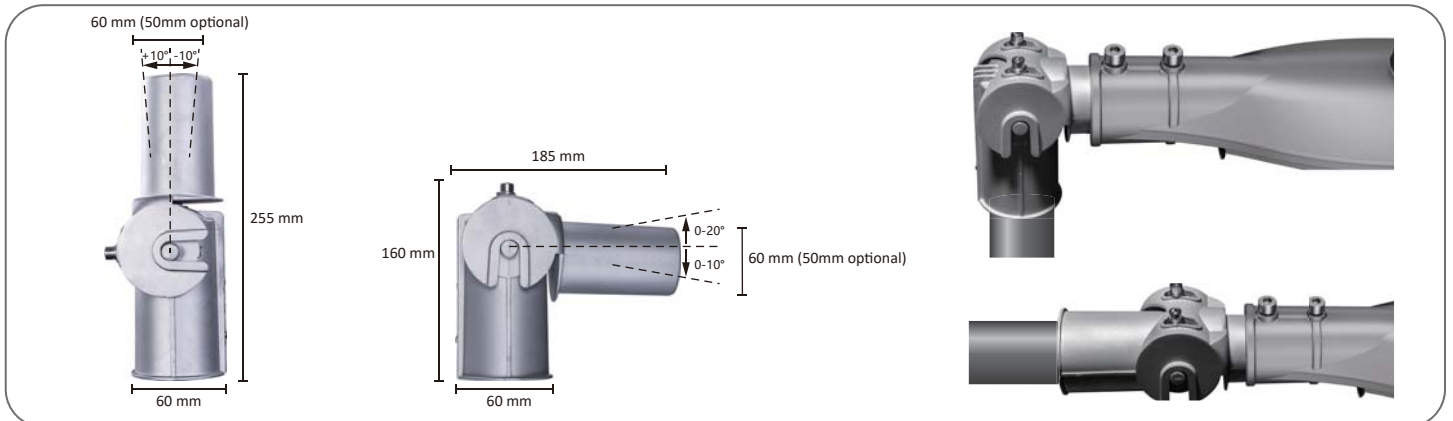
C0 - C180   C90 - C270   unit: cd
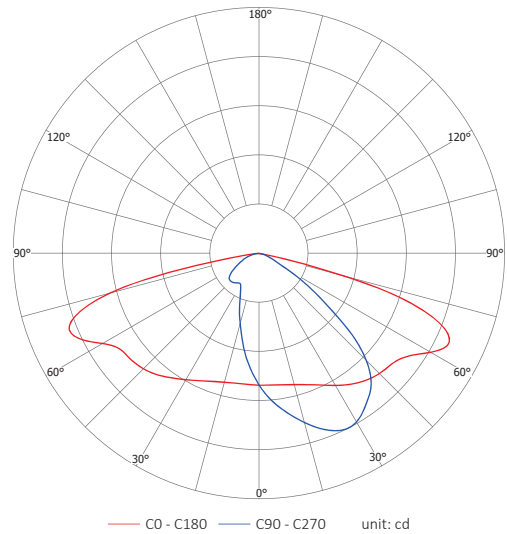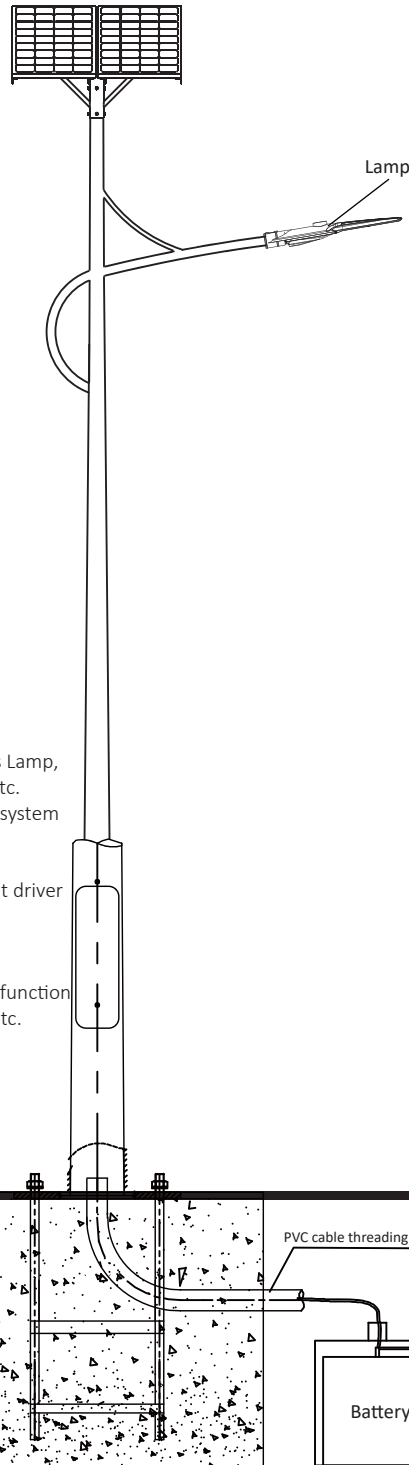
Working Environment & Packing

Model	Product Dimensions (mm)	Carton Size (mm)	N.W (kg)	G.W (kg)	Working Environment	Storage Temperature	Rating	CRI	Power Factor	Power Efficiency	Material	Pole Diameter (mm)
MK-SD2-60	717*178*99	735*195*120	3.62	4.20	-40 ºC ~ +50 ºC 10% ~ 90%RH	-40 ºC ~ +50 ºC	Class I IP66 IK10	>70	>0.95	>90%	Housing: Die-cast aluminum Lens: PC	60
MK-SD2-70	717*178*99	735*195*120	3.62	4.20								
MK-SD2-80	717*178*99	735*195*120	3.62	4.20								
MK-SD2-90	717*178*99	735*195*120	3.62	4.20								
MK-SD2-100	717*178*99	735*195*120	3.62	4.20								
MK-SD2-110	717*178*99	735*195*120	3.84	4.42								
MK-SD2-120	717*178*99	735*195*120	3.84	4.42								
MK-SD2-130	717*178*99	735*195*120	3.84	4.42								

Note: Above data of weight are all typical values.

Optional accessories

60 mm (50mm optional)

+10° -10°

255 mm

60 mm

185 mm

160 mm

0-20°
0-10°

60 mm (50mm optional)

60 mm

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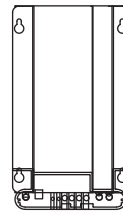
Solar Street Light System
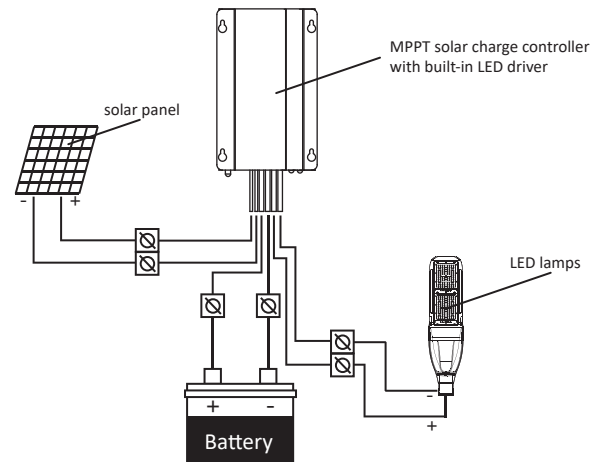
SOLAR PANEL

CONTROLLER

Lamp

Model list:
MK-SD2-60,
MK-SD2-70,
MK-SD2-80,
MK-SD2-90,
MK-SD2-100,

A complete set of Solar street light includes Lamp, Battery, Panel, Controller, Pole, Cable and etc.
MKLIGHTS also provides solutions for solar system based on SD series.
Option 1
MKLIGHTS Street Light with DC12/24V input driver
Rest parts: Battery, Panel, Controller, Pole, Cable and etc.
Option 2
MKLIGHTS Street light combines controller function
Rest parts: Battery, Panel, Pole, Cable and etc.

PARTS CONNECTION DIAGRAM

MPPT solar charge controller with built-in LED driver

solar panel

LED lamps

Battery

GROUND

PVC cable threading pipes

Battery   Battery

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?

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Intelligence Street Lighting System
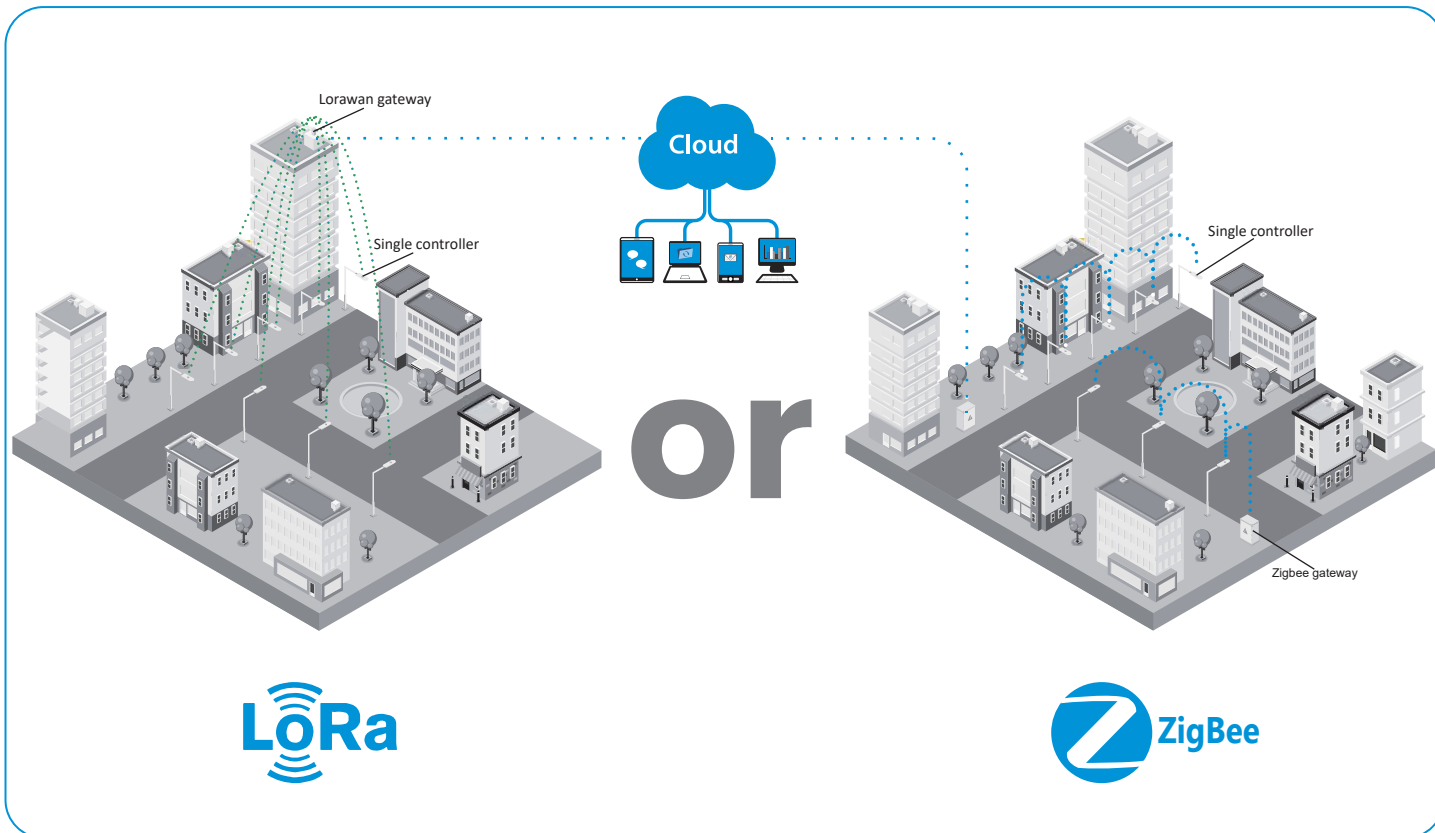
MKLIGHTS provides a total solution for intelligence street lighting system.
MKLIGHTS street light intelligence system is made up by software, gateway, single light controller. The gateway is installed in the distribution cabinet, the single light controller is installed in the lighting terminal. It proceeds with communication via GPRS/ CDMA/ WCDMA wireless network or cable network & monitor center and proceeds with communication via ZIGBEE/ 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 MKLIGHTS Team.

Optical Control

Optical control function is supported by optional
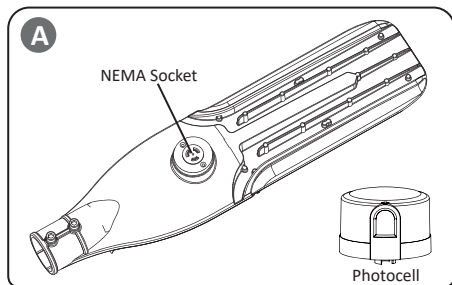
If the fixture with PHOTOCELL function, the NEMA Socket will be installed on the cover of fixture. See (A). Fit the pins of Photocell to NEMA Socket, firmly insert and rotate Photocell to proper position.

<Verifying>
Make sure all the connections done and photocell is well installed on the fixture, switch on the power supply and cover the window of NEMA Socket, wait 5 seconds, the fixture will be turned on.

![MKLIGHTS logo]
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