SD1 -SERIES

MKLIGHTS
Make Light For You, Make The City Bright

UKAS QUALITY MANAGEMENT

ISO9001
ISO14001
ISO50001

LUMILEDS
The Brighter Choice

POWERED BY MW

CE

RoHS Compliant

IP66
IK10

LM-80

5 YEAR WARRANTY

LED STREET LIGHTS

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,
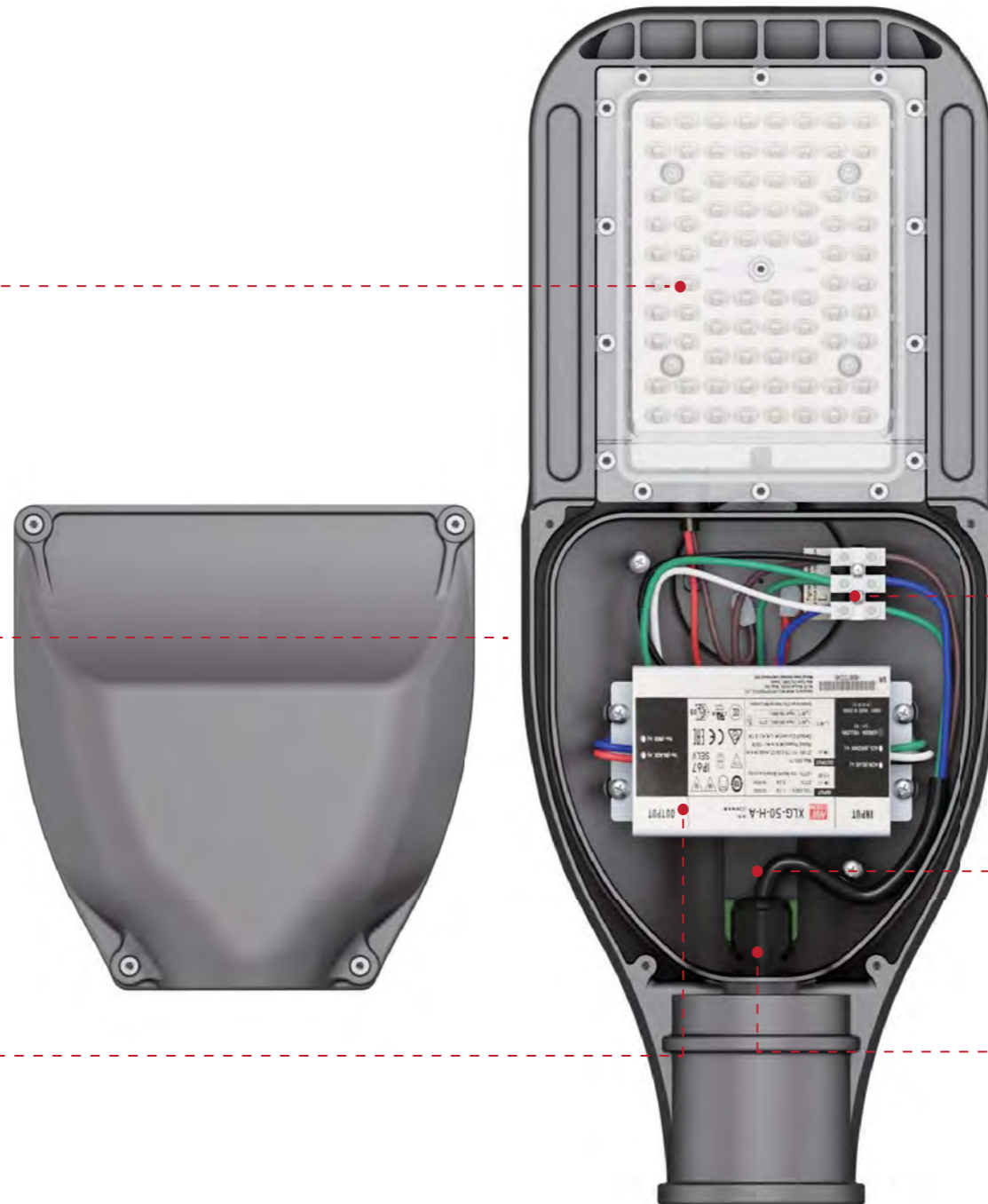illumination grade LED light source.

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

LED power supply
High-end MeanWell XLG Series LED driver, optimal stability,
performance and lifespan.

Connect base
Disassemble easily which reduces maintenance costs.

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

Waterproof connector
Use M16 waterproof connector to ensure that the driver box is
waterproof and damage caused by excessive force.

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Φ 60mm

179 mm

447 mm

77 mm
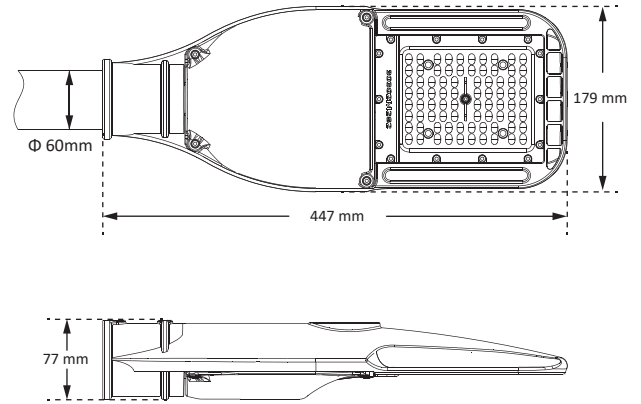
Electrical & Photometric

★ 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)
SD1	MK-SD1-20	40units/ 75mA	20W	146 lm /w	2920 lm	100-240V /277V AC 50 /60Hz	Philips Lumileds 3030 2D	MeanWell	TypeII, Medium	3000* 4000 5000 5700	10KV	>100,000 (L70)
	MK-SD1-20+	80units/ 38mA	20W	156 lm /w	3120 lm							
	MK-SD1-30	40units/ 115mA	30W	140 lm /w	4200 lm							
	MK-SD1-30+	80units/ 58mA	30W	151 lm /w	4530 lm							
	MK-SD1-40	56units/ 110mA	40W	140 lm /w	5600 lm							
	MK-SD1-40+	80units/ 78mA	40W	147 lm /w	5880 lm							
	MK-SD1-50	80units/ 95mA	50W	142 lm /w	7100 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)
SD1	MK-SD1-20	16units/ 48mA	20W	154 lm /w	3080 lm	100-240V /277V AC 50 /60Hz	Philips Lumileds 5050	MeanWell	TypeII, Medium (BLS)	3000* 4000 5000 5700	10KV	>100,000 (L70)
	MK-SD1-20+	28units/ 28mA	20W	160 lm /w	3200 lm							
	MK-SD1-30	16units/ 54mA	30W	150 lm /w	4500 lm							
	MK-SD1-40	22units/ 70mA	40W	150 lm /w	6000 lm							
	MK-SD1-50	28units/ 70mA	50W	150 lm /w	7500 lm							

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

Certification

Manufacturer
ISO9001, ISO14001, ISO50001, OHSAS18001
SC Series [All the models]
CE, ROHS, LM80

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Light Distribution Diagram

3030 Version TYPE II

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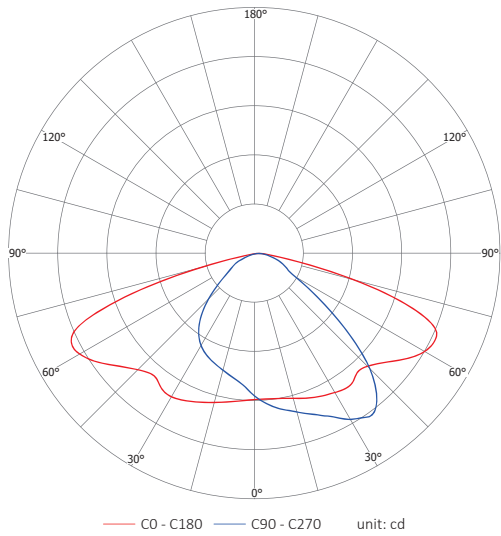
5050 Version TYPE II BLS
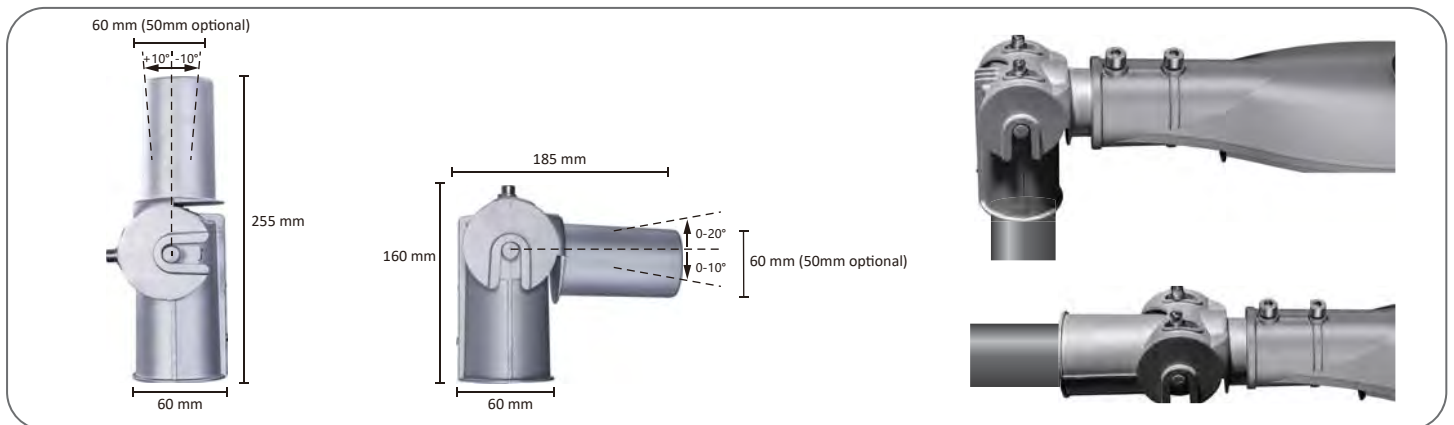

— C0 - C180   — C90 - C270   unit: cd
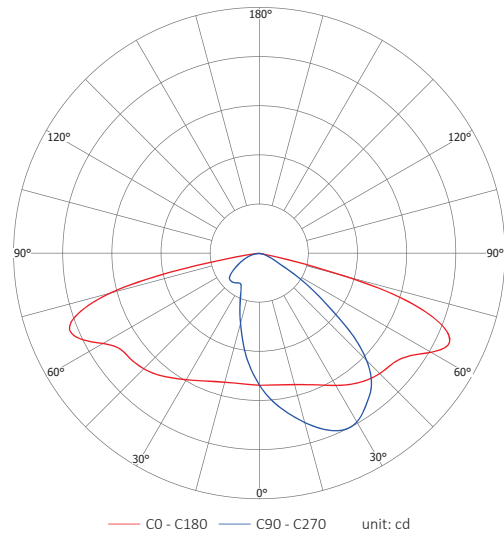
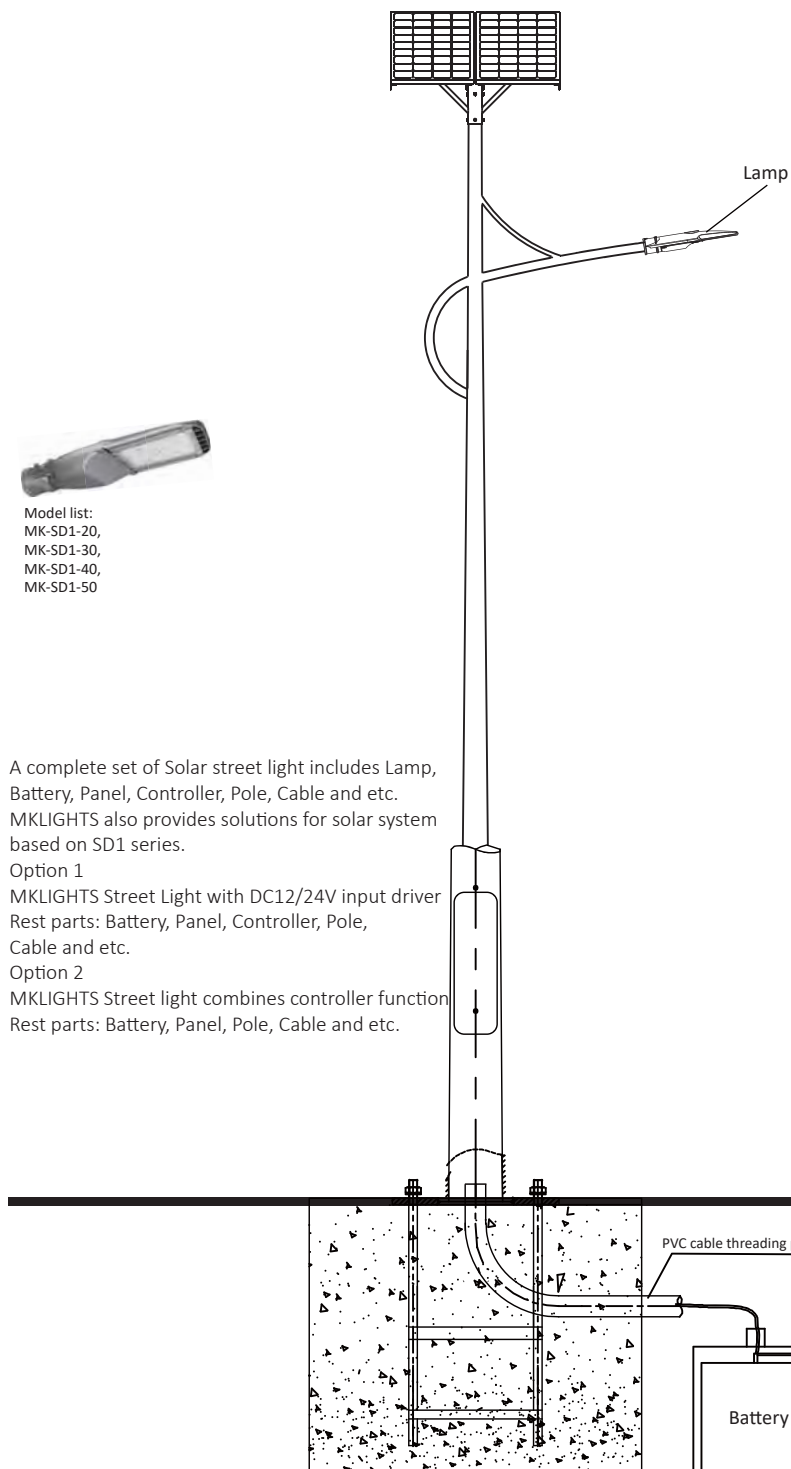## Working Environment & Packing

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)
ZGSM-LD20Kmini	447*179*77	465*200*100	2.2	2.6	-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 (50 optional)
ZGSM-LD30Kmini	447*179*77	465*200*100	2.3	2.7								
ZGSM-LD40Kmini	447*179*77	465*200*100	2.3	2.7								
ZGSM-LD50Kmini	447*179*77	465*200*100	2.3	2.7								

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

Lamp

Model list:
MK-SD1-20,
MK-SD1-30,
MK-SD1-40,
MK-SD1-50

A complete set of Solar street light includes Lamp,
Battery, Panel, Controller, Pole, Cable and etc.
MKLIGHTS also provides solutions for solar system
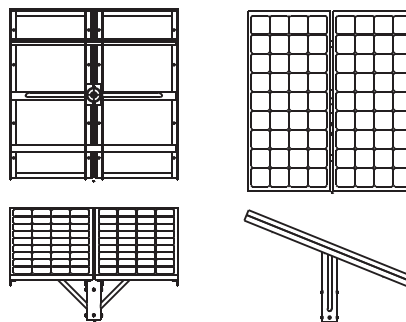based on SD1 series.
Option 1
MKLIGHTS Street Light with DC12/24V input driver
Rest parts: Battery, Panel, Controller, Pole,
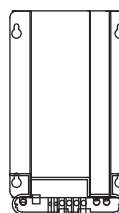Cable and etc.
Option 2
MKLIGHTS Street light combines controller function
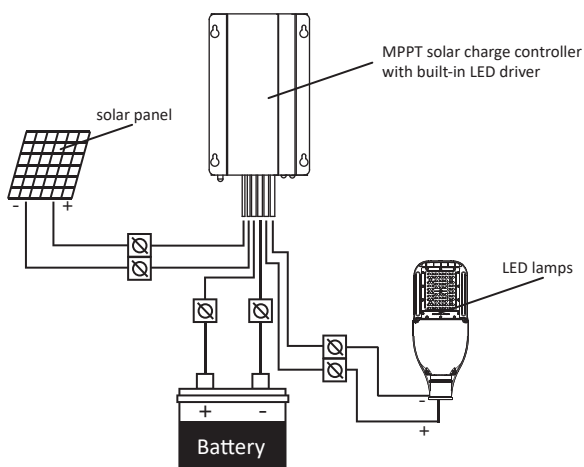Rest parts: Battery, Panel, Pole, Cable and etc.

SOLAR PANEL

CONTROLLER

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
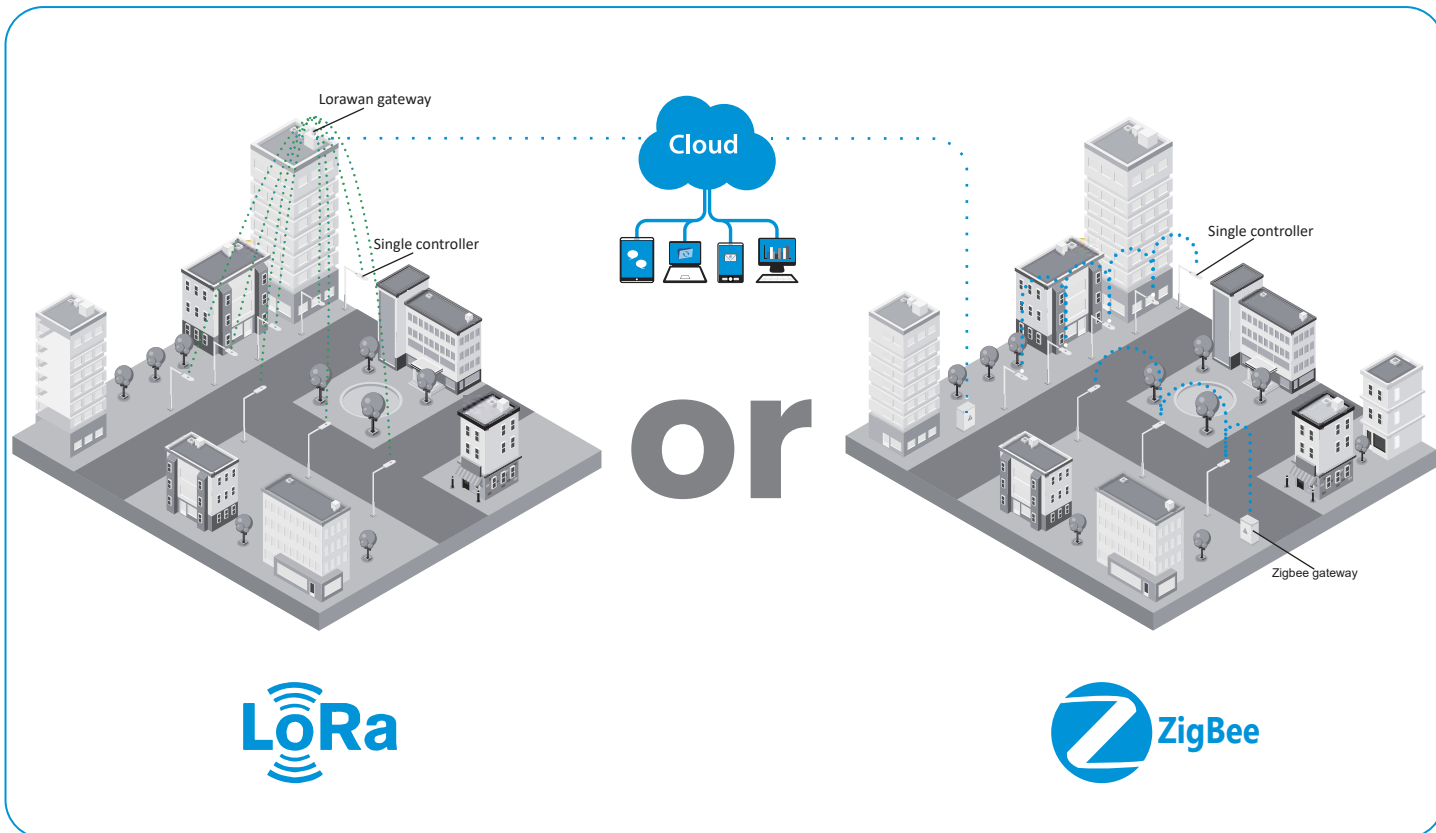
MKLIGHTS provides a total solution for intelligence street lighting system.

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
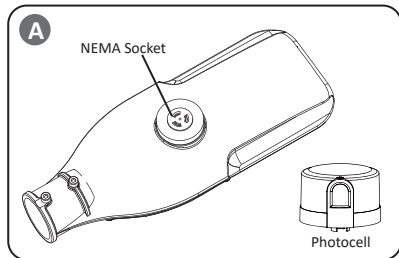
If the fixture with PHOTOCELL function, the NEMA Socket will be installed on the cover of fixture. See Ⓐ . Fit the pins of Photocell to NEMA Socket, firmly insert and rotate Photocell to proper position.

\<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.

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