OPPLE

OPPLE LIGHTING CO., LTD.
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Minhang District, Shanghai, China. 201103

OPPLE.COM

SMART STREETLIGHT SYSTEM

- Smart Lighting Management
- Data Monitoring & Analysis
- Operations & Maintenance Management
- Precision Management
- High Compatibility
- System Data Security



OPPLE.COM

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About OPPLE

OPPLE Lighting Co., Ltd., a leading lighting company in China, is rapidly expanding across more than 70 countries and regions worldwide with nearly 6,000 employees. OPPLE upholds its brand concept of "See Beyond" and its mission to create value out of light by focusing on innovation that puts people first. It boasts the largest distribution network in China and over 130,000 sales terminals worldwide, including over 2,500 branded shops. OPPLE has a strong focus on innovation with nearly 4,000 patents, backed by its 3 large ISO-accredited manufacturing factories and an R&D team of over 500 members.

Furthermore, OPPLE has set up 2 professional laboratories that meet international standards. Among them, the Suzhou laboratory owns 13 professional branch testing labs. It has been awarded the ISO17025 national certification by CNAS/ILAC (International Laboratory Accreditation Cooperation) and has been authorized by TÜV SÜD as a cooperative testing laboratory, ensuring that its testing data are widely recognized.

We now hold not only the factory certifications, such as ISO9001: Quality Management, ISO14001: Environment Management, ISO50001: Energy Management, and ISO 45001: Occupational Health and Safety Management, etc., but also various international product quality certificates: CB, CE, and special ones for different countries: RCM(SAA), BIS, SASO, TISI, SIRIM, SNI, NEA, etc. With the support of our experienced and highly skilled local OPPLE team, you can take full advantage of our innovative products and solutions.

In 2020, OPPLE became the official partner and appointed lighting solution provider of the China National Pavilion at Expo 2020 Dubai, and lit up the comprehensive image hall of Shanghai city of the 3rd China International Import Expo (CIIE), effectively showcasing Shanghai as a "city card" in front of the world.

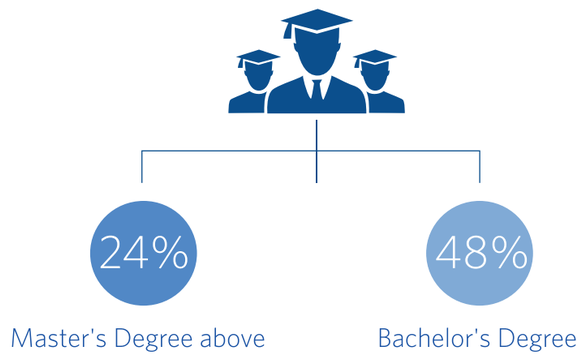
R&D Center

OPPLE Lighting holds a professional R&D team with more than 500 members, and possesses 2 professional R&D laboratories in Shanghai and Zhongshan. The R&D laboratories have been establishing strategic cooperation partnerships with many world-leading organizations like Huawei in technological fields such as LED, one TLED, Zigbee wireless smart control systems, and smart home technologies.

Research & Development

2
Professional R&D Labs

500+
Professional R&D staff



55M+ USD
Annual R&D investment

4,000+
Issued and pending patents

400+
Top engineers, designers & technicians

Main Production Facilities

Wujiang

Area: 600,000+ m^2
Staff: Nearly 2,000

Production line:
LED luminaires (downlights/spotlights/panels...)



Zhongshan

Area: 52,000+ m^2
Staff: Nearly 2,500

Production line:
LED luminaires (light sources/battens/ ceiling lamps/...); electricals appliances



South China

Area: 300,000+m^2
Staff: Nearly 1,000

Production line:
The South China Industrial Park started construction in 2021 and will focus on smart property management, automated warehouse, automated assembly, MES digital management systems, etc.

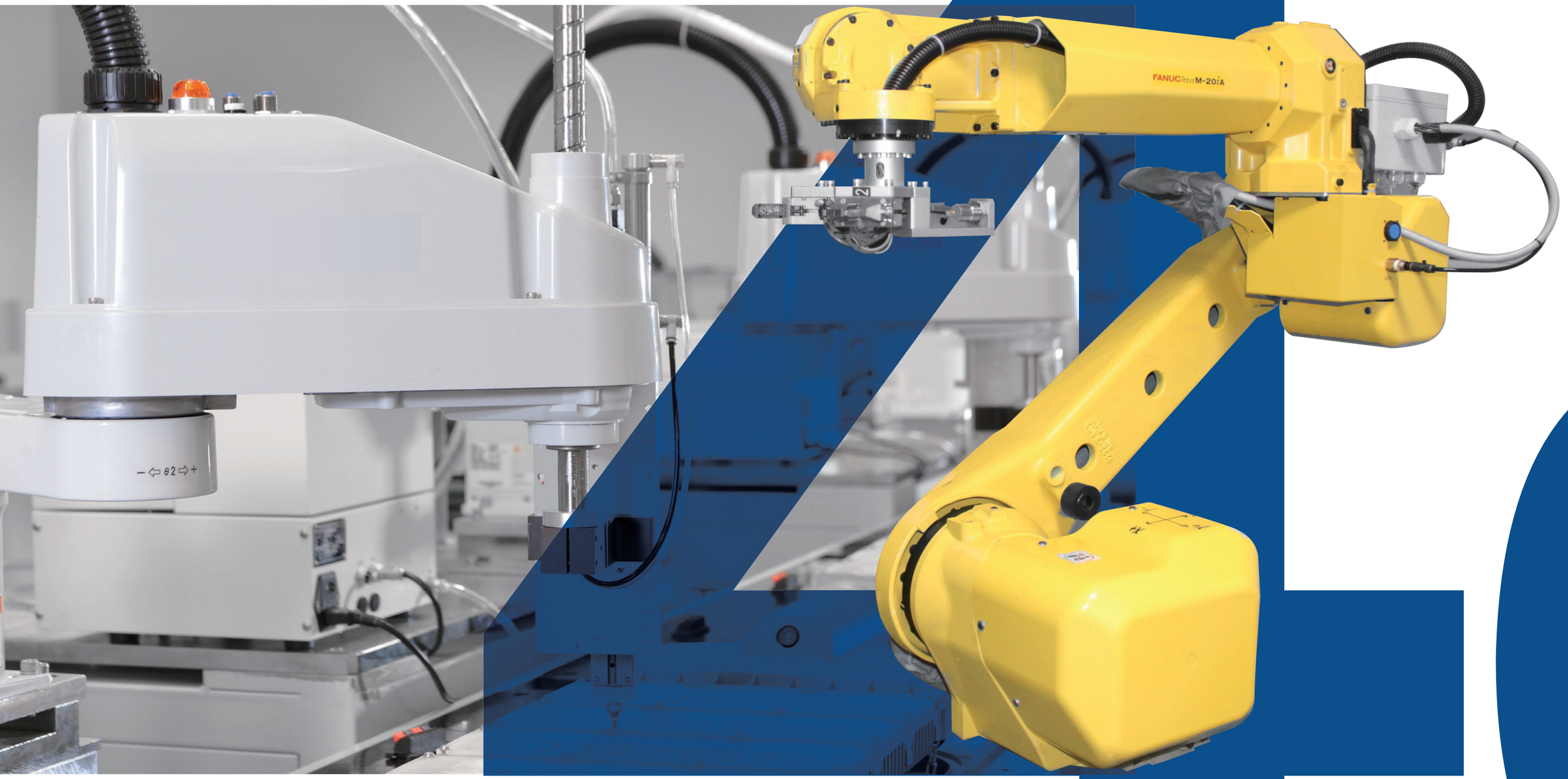


Automated Production Line

In 2015, the first automated production line was built to greatly increase production efficiency and capacity.

Industry 4.0

In 2016, the first robot arm was used for automatic inspection of molds, marking the official introduction of Industry 4.0.

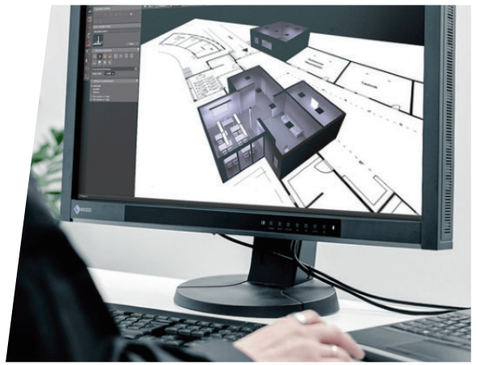


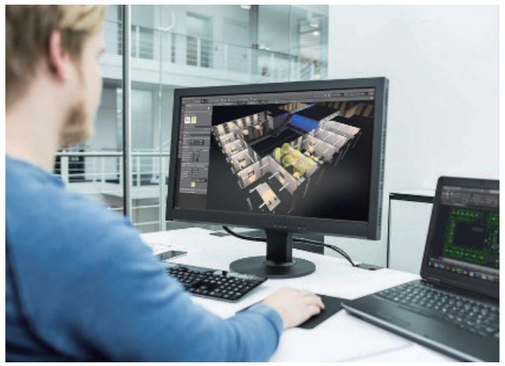
4.0

Lighting Design Team Standard Work Process

For different projects, designers will support to multiple degrees to help control the deviation and implementation of the results at each phase.

1. Early-stage preparations
2. Conceptual design
3. Detailed design
4. Drawing
5. Product realization
6. Commissioning
7. Acceptance check

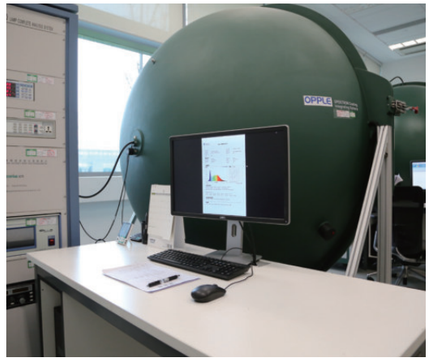


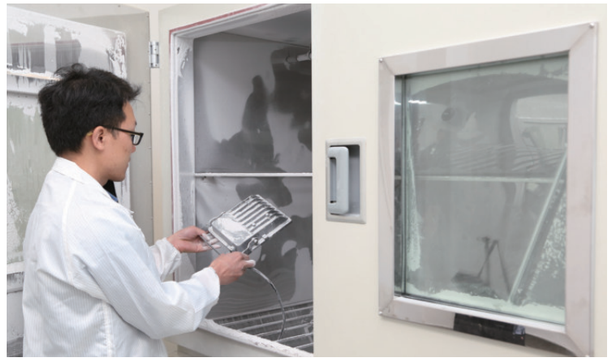


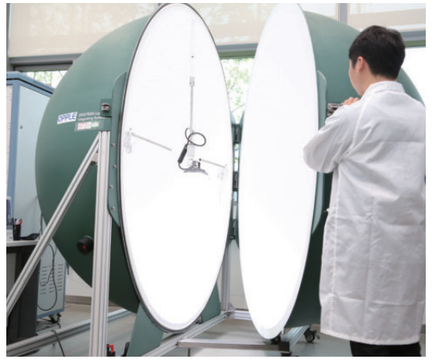
Product Testing & Certification

The company has the most advanced product testing system in the industry, and maintains long-term in-depth cooperation and technical communication with multiple authoritative testing and certification third-parties. At the same time, the company has a national-level lighting laboratory (CNAS certified) in line with ISO/IEC17025. In the production of finished luminaires, a comprehensive quality inspection and monitoring process is set up for quality control.



















On-site Technical Support

The project is equipped with a professional on-site technical support team, tracking and providing assistance starting from the early stage of the plan, to ensure the proper installation of the products and solve emergencies on the spot, so as to guarantee the final effect and progress of the project.





Customer Service

A full on-site customer service is provided according to the customer's requirements, including professional installation instructions and corresponding after-sales service.



Business Scope

Founded in 1996, OPPLE has been engaged in R&D, production, distribution and after-sales services of lighting sources, lighting fixtures and controls, operating in over 70 countries and regions in Asia Pacific, Europe, Middle East and South Africa. With a powerful marketing team and a well-established worldwide marketing network, it now has over 150,000 sales points.

70+
countries

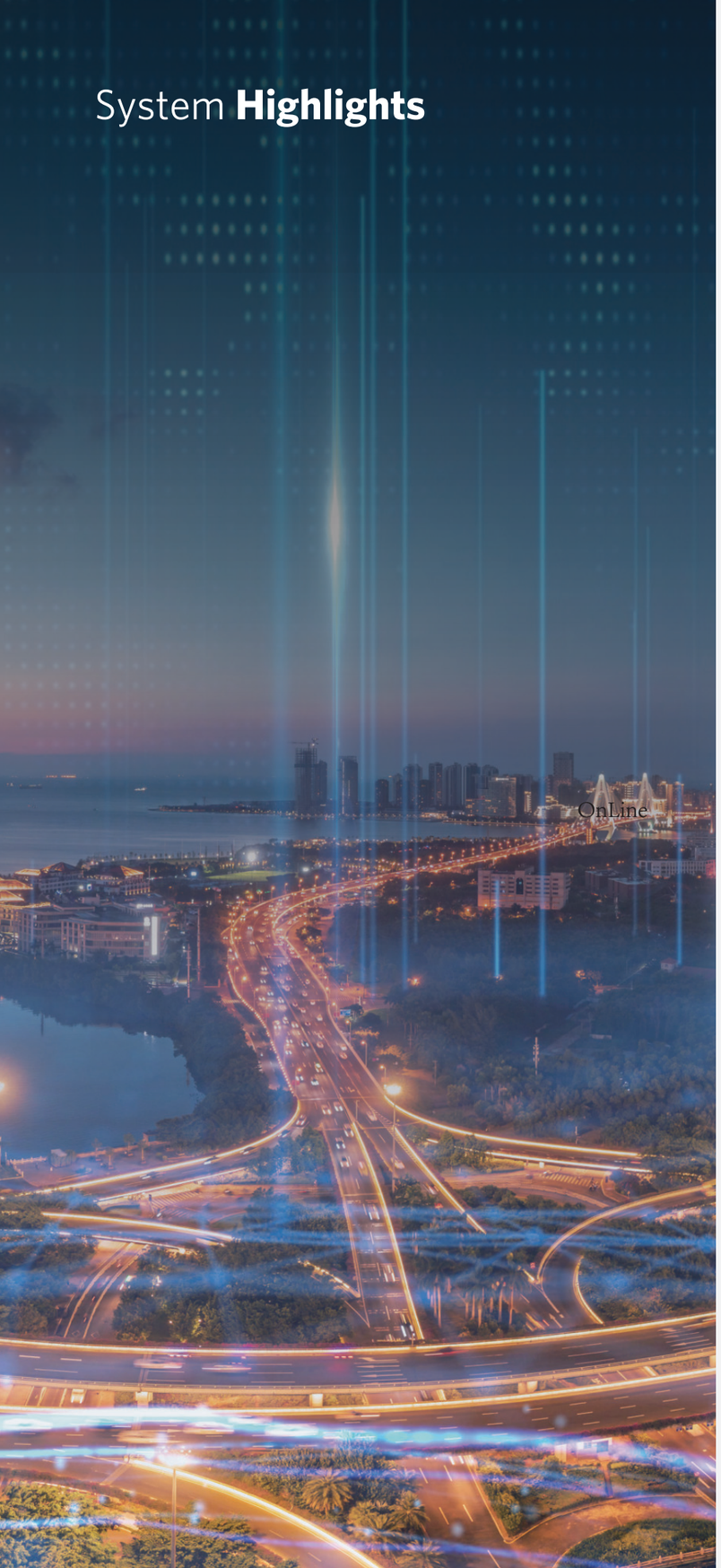
150,000
Sales points worldwide







System **Highlights**



Smart Lighting Management

Data Monitoring & Analysis

Operations & Maintenance Management

Precision Management

High Compatibility

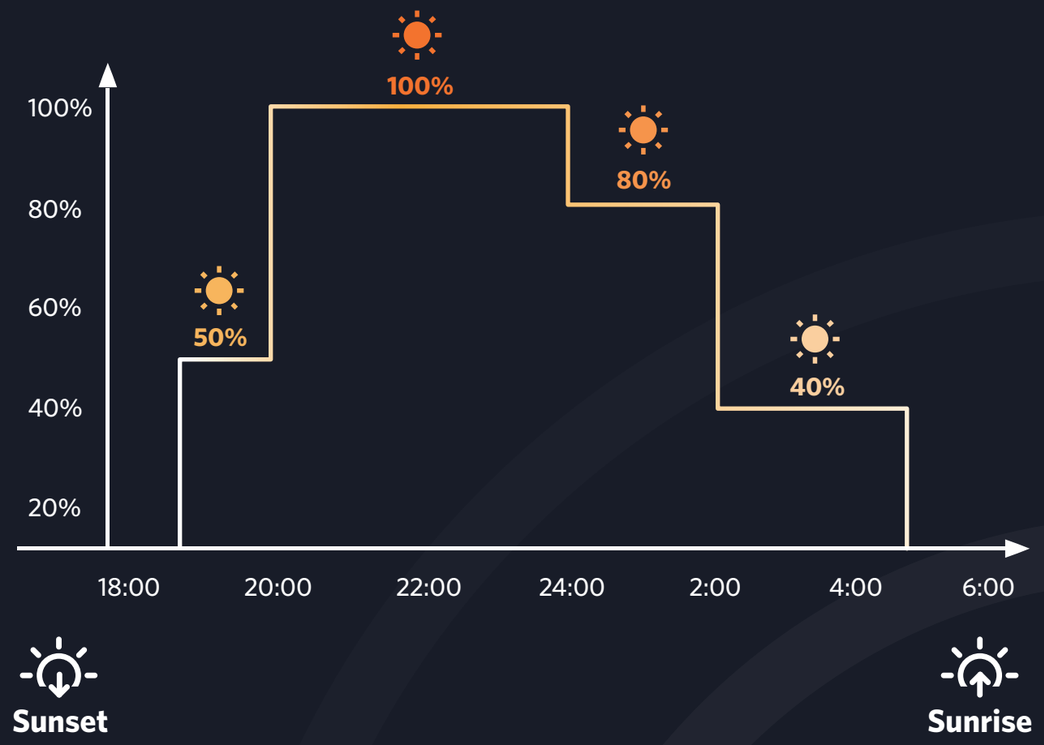
System Data Security

System **Highlights**

Sunrise & Sunset Lighting Strategy

Smart Lighting Management

Light Dimming Curve



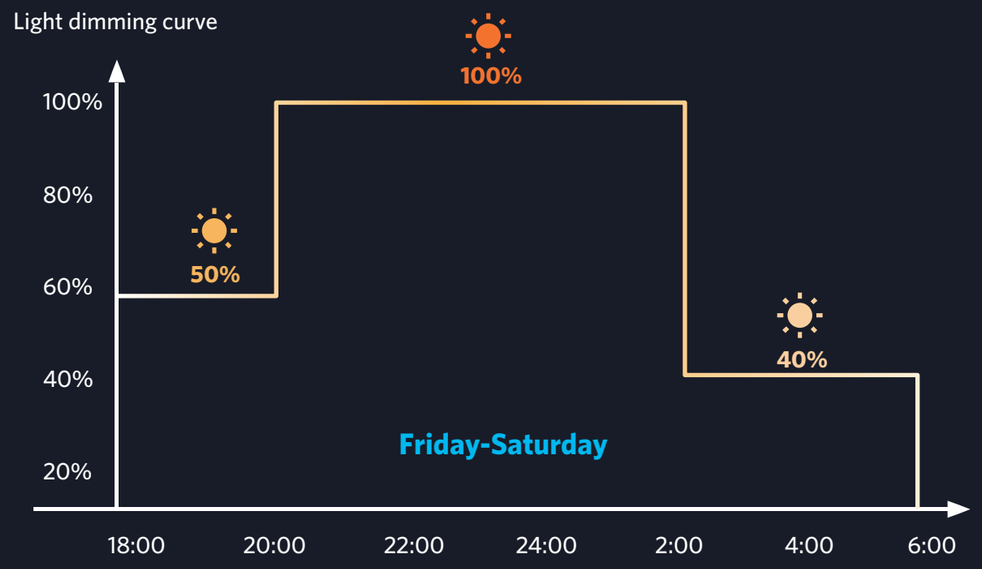
Automatically Calculates Sunrise and Sunset Times

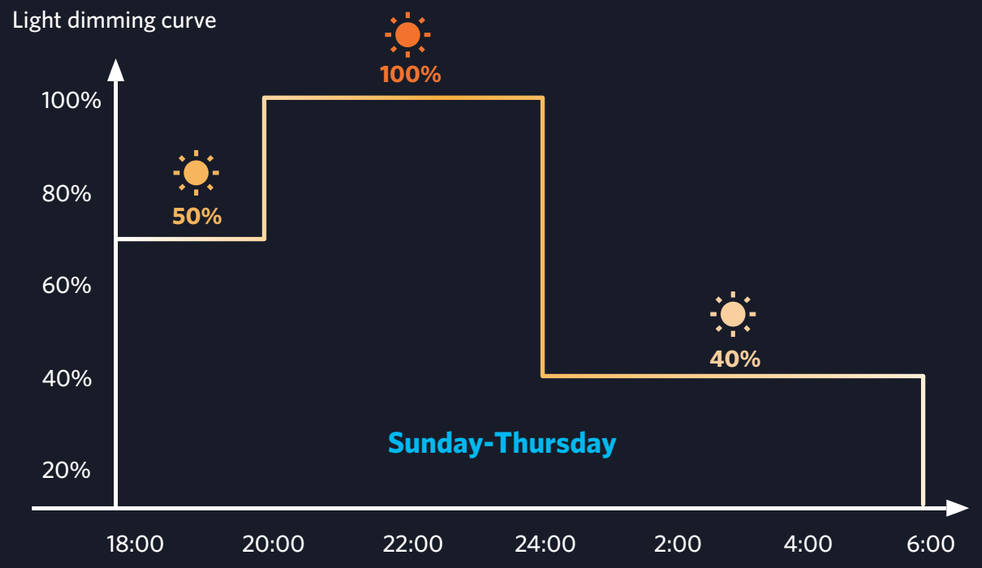
Set Brightness for Different Time Periods

System **Highlights**

Daily & Weekly Lighting Strategy

Smart Lighting Management





Extend two hours for 100% brightness

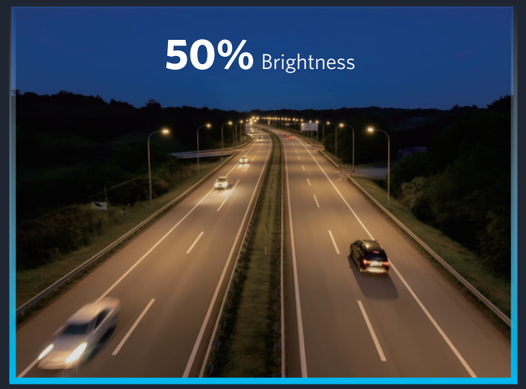
Set Lighting Strategies from Sunday to Friday for Different Time Periods

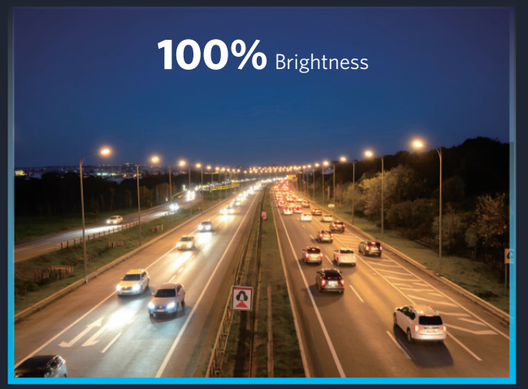
System **Highlights**

Traffic-Adaptive Lighting Control

Smart Lighting Management







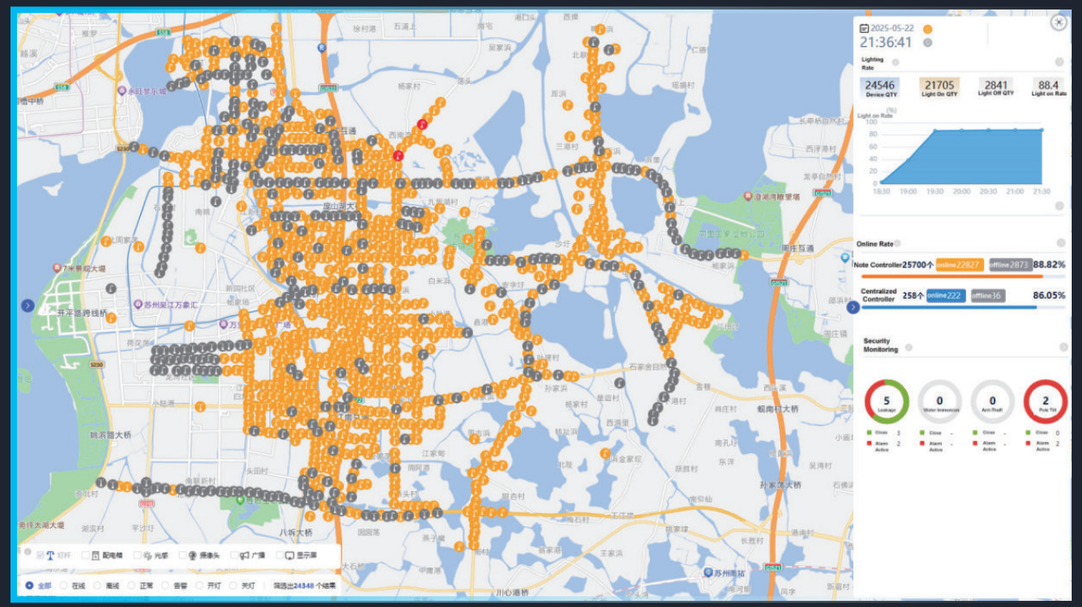
Intelligent Brightness Adjustment Based on Road Traffic Flow

System **Highlights**

Data Monitoring and Analysis

Data Monitoring & Analysis

Lighting Map



Online **Offline** **Alarm**

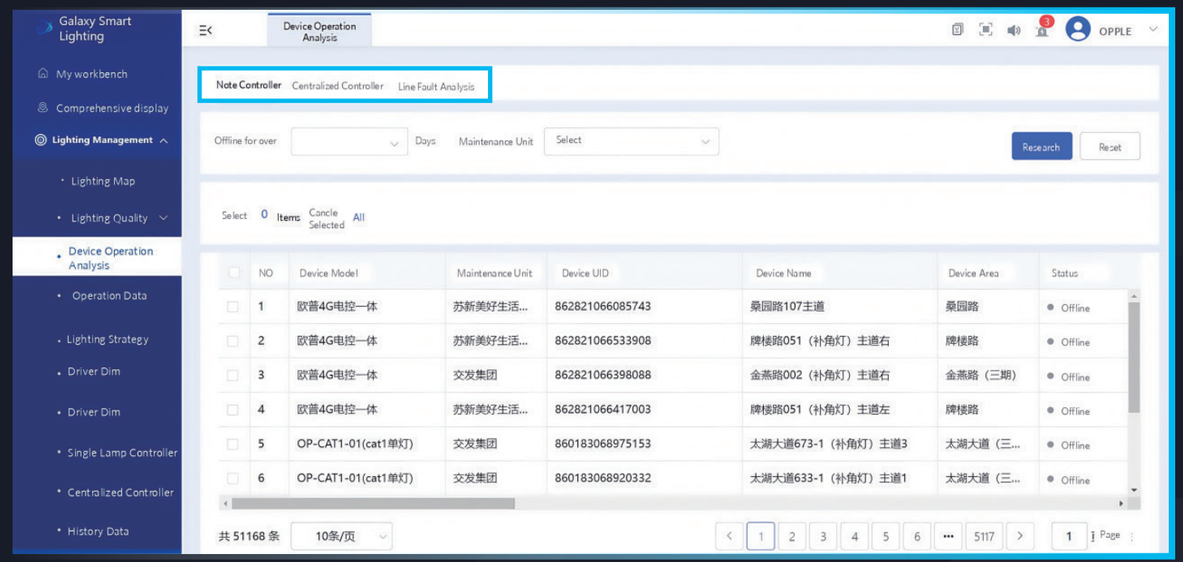
Real-time Monitoring of Device Status

System **Highlights**

Data Monitoring and Analysis

Data Monitoring & Analysis

Fault Analysis



Controller & Circuit Fault Analysis

System **Highlights**

Operations & Maintenance Management

Operations & Maintenance Management

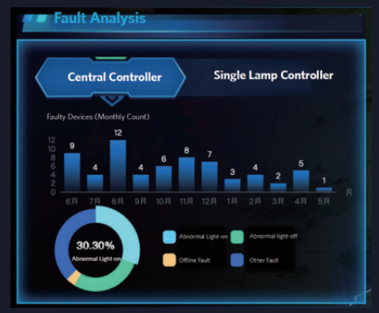
Alarm Type

- Power Outage Alarm
- Low Brightness Alarm
- Pole Tilt Alarm
- Daytime Lighting Alarm
- Contactor Disconnection Alarm

- Overvoltage Alarm
- Undervoltage Alarm
- Undercurrent Alarm
- Overcurrent Alarm
- Contactor Activation Alarm

- Power Outage Alarm
- Low Brightness Alarm
- Pole Tilt Alarm
- Daytime Lighting Alarm
- Contactor Disconnection Alarm

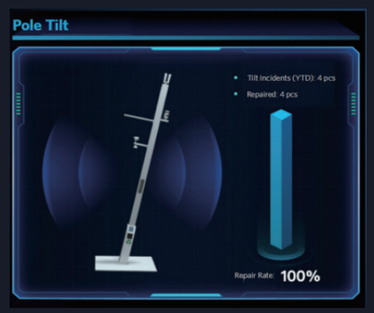
Fault Alarm



Leakage Alarm



Pole Tilt Alarm



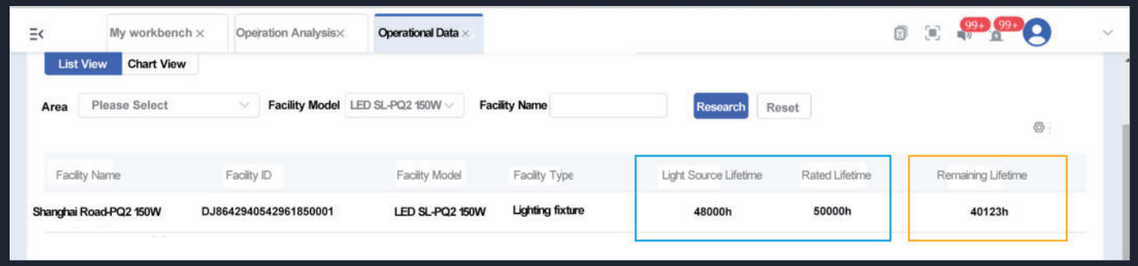
Safety Monitoring and Early Alarm

System **Highlights**

Operations & Maintenance Managemen

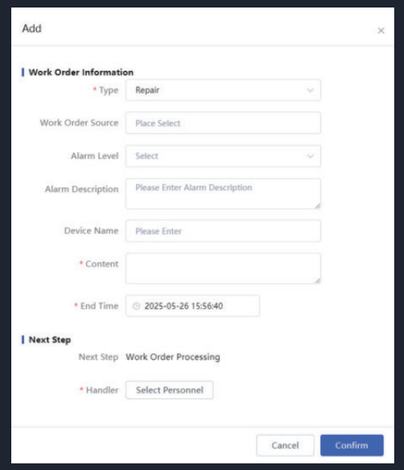
Operations & Maintenance Management

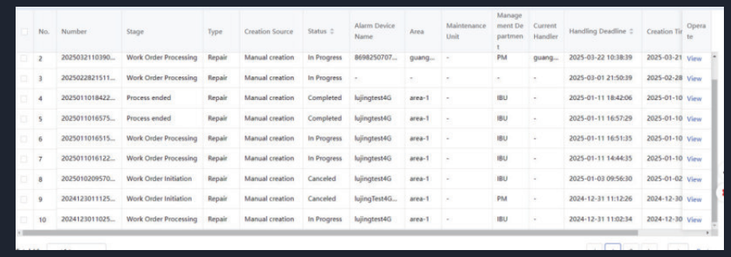
Lifetime Record

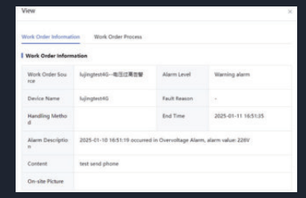


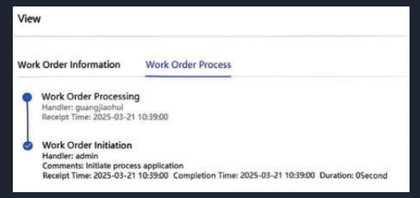
Luminaire Lifetime Analysis

Maintenance Task Assignment & Management









Converts alarm information into work orders → Assigns maintenance tasks to operation personnel → Manages the progress of equipment repair

System **Highlights**

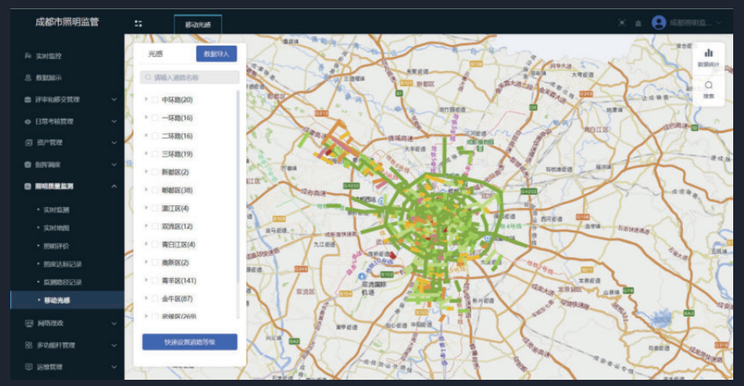
Operations & Maintenance Management

Operations & Maintenance Management

Lighting Quality Analysis



Vehicle-Mounted Mobile Monitoring



- Compliant with Road Lighting Standards
- Low Light Conditions
- Dark(Requires Lighting)

Lighting Quality Map

System **Highlights**

Precision Management

Precision Management

Setting Roles and Functional Permissions

Management Role

· Comprehensive Quality Display of Urban Lighting

· Real-time Monitoring

· Customized Display Module



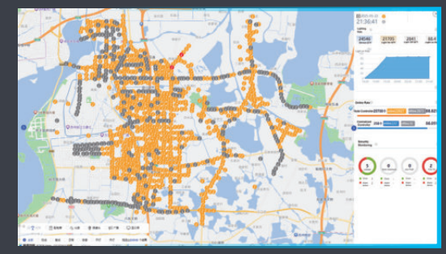
Comprehensive Map

Monitoring Role

· Lighting Control: On/Off , Dimming, Query

· Monitor Voltage, Current, Power

· Alert Electric Leakage, Pole Tilt, Anti-Theft, etc.

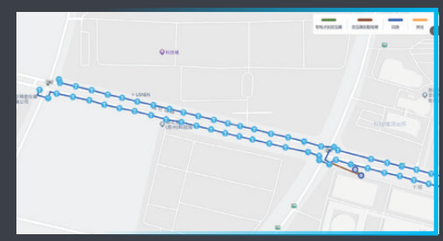


Lighting Map

Maintenance Role

· Comprehensive Asset Visualization

· Full Lifecycle Management of Asset



Asset Map

Circuits ——— Transformer — Distribution Box

System **Highlights**

Complete Open Capabilities

High Compatibility

Open API and Standard MQTT
Supports 30+ Mainstream IoT Devices

The list keeps growing
Compatibility development tailored for specified brands

System **Highlights**

System Data Security

System Data Security

Data End-to-end Encryption
Protects data during transmission and storage

Data Access Control
Only authorized users can access the system

Identity Verification
Verifys identity to prevent unauthorized access

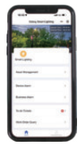
How to Ensure System Data Security

Data Integrity
Ensure that data is not tampered

Network Security
Protects the system from network attacks

System Monitoring
Real-time monitoring of system activities

System **Connection**



APP



Web Platform

OPPLE Cloud



Centralized Controller(4G)



Centralized Controller(PLC)







4G Single Lamp Controller





PLC Single Lamp Controller





Lighting Fixture





Lighting Fixture

Web Platform - Main Interface



Asset Statistics

Energy Saving Analysis

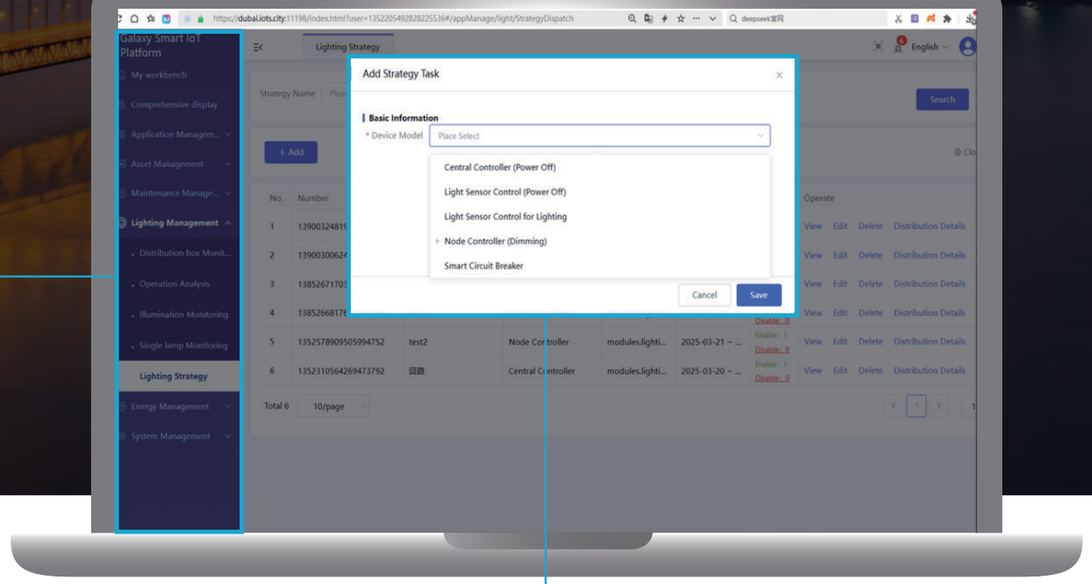
Online Status

Real-Time Video

Lighting Status

Fault Alarm

Web Platform - Sub Interface



Add strategy task to the devices

Clear navigation menu:
Click "Lighting Management" to control and monitor the lighting;
Click"Lighting Strategy" to set dimming strategy.

Product **Matrix**

Control Devices

Centralized Controller



Centralized Controller



Centralized Controller

4G Single Lamp Controller



4G-NEMA



NO-NEMA



IOT Driver

PLC Single Lamp Controller



PLC-NEMA



NO-NEMA

Lighting Fixtures

Dimmable Lighting Fixtures



PA



P2



PQ2

No-dimmable Lighting Fixtures

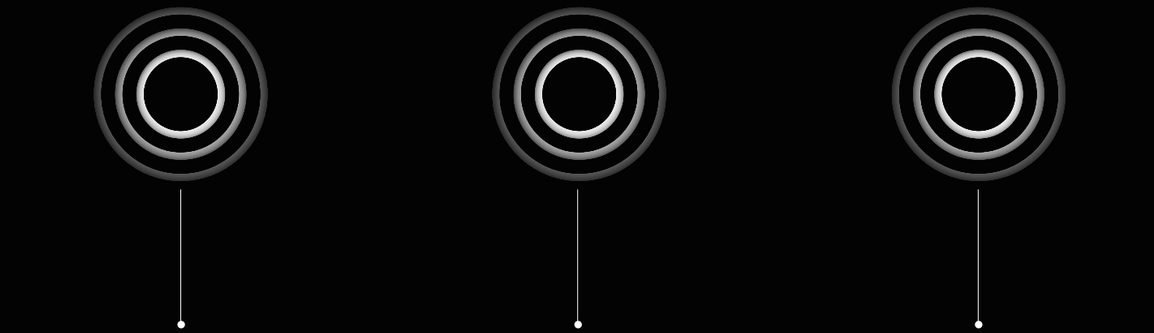


EQ

Remark: Here we display our luminaires and accessories in the system, and you can choose the ones that suit your project.

Product **Features**

Icon	Description
Remote Control	Compatible with "Smart Streetlighting" App and OPPLE smart platform.
Real-Time Fault Alert	Automatically detects and reports faults in real-time.
High Speed	Quickly connects to the cloud via 4G communication.
Wide Area Coverage	The device is spread over a large area that can receive 4G signal
Centralized Control	Controls all devices through "Centralized Controller" at the same time.
Cloud-to-Lamp Control	Direct cloud-to-lamp connection for precise, individual lamp control.
Plug&Play Connectivity	Simple installation, connects quickly via standard 4G networks.
Precision Dimming	Instantly adjusts brightness or switch lights remotely.
Integrated Driver-Controller	Unifies the LED driver and intelligent controller into a single, integrated unit.
PLC Data Collection	Collects real-time operational data from each lamp via existing power lines.
Stable & Reliable	PLC communication has strong anti-interference capabilities
Power Line Communication	Uses existing power lines for communication
IP67	Dust-tight and protected against the effects of water immersion.
Up to 10kV Surge Protection	Protect electrical devices from voltage spikes up to 10kV
Extra long life	Long lifespan for 50Khrs(L70B50)
Impact resistant(IK07)	Resistance to shock of 2J
Rustproof	Resists rust and corrosion through rustproof materials and special surface finishing
Toolless maintenance	Enables quick and easy servicing without the need for special tools, reducing downtime.
Stream Line Housing	Streamlined housing reduces air resistance
Up to 150lm/w	Delivers outstanding luminous efficacy of up to 150 lm/w for maximum energy savings.
Up to 6kV Surge Protection	Protect electrical devices from voltage spikes up to 6kV
Impact Resistant(IK08)	Resistance to shock of 5J



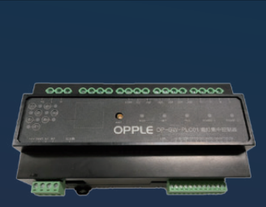
Centralized Controller (4G)

NEMA Single Lamp Controller (4G)

Single Lamp Controller (4G NO-NEMA)



Single Lamp Controller (PLC NO-NEMA)



Centralized Controller (PLC)



IOT Driver

Control Devices In The System





4G Centralized Controller

Remote Control | Real-Time Fault Alert | High Speed | Wide Area Coverage | Centralized Control

Specification

Item Description
LED OP-KZ-GW-4G Controller

Technical Specification	
Communication	4G/3G/2G
Communication Ports	3× RS485 Ports / 1× SD Card Slot
Power Consumption	＜5W
Housing Material	Flame-retardant ABS
Weight (kg/pc)	2.3

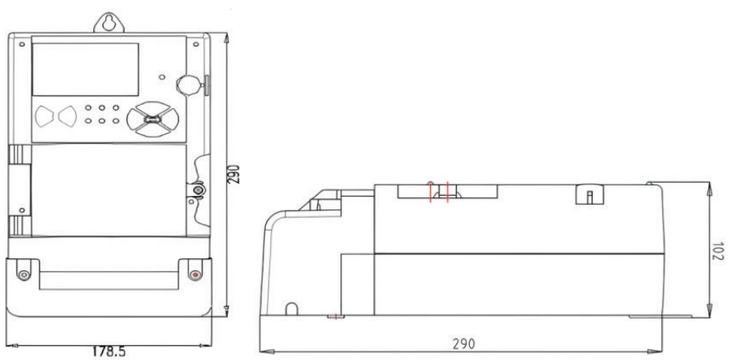
Electrical Supply	
Frequency(Hz)	50/60Hz
Voltage	3x220/380V AC / 3-phase, 4-wire
Control Circuit	6 Circuits

Application Conditions	
Operating Temperature	–35℃~+75℃
Storage temperature	–25 ℃ ~ +80 ℃

Packaging Information

Item Description	Packaging Unit		
	Dimensions(mm) (LxWxH)	Gross Weight (kg)	Packing Qty (pcs/CTN)
LED OP-KZ-GW-4G Controller	370*200*205	3.027	1

Dimensional Drawing



OP-KZ-GW





4G-NEMA Single Lamp Controller

Cloud-to-Lamp Control

Plug&Play Connectivity

Precision Dimming

Real-Time Fault Alert

IP66

Specification

Item Description
LED OP-KZ-Single-4G01 Controller

Technical Specification	
IP	IP66
IK	IK07
Communication	4G
Housing Colour	Grey
Dimmable	0-10V/PWM
Protection Class	II
Weight (kg/pc)	0.067

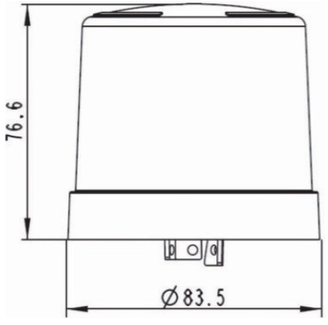
Electrical Supply	
Frequency(Hz)	50/60
Voltage(V)	100-240
AC / DC	AC
Rated Power	⩽480W
Power Consumption	＜2W

Application Conditions	
Operating Temperature	–40˚C~+70℃
Storage temperature	–40 ˚C ~ +80 ˚C

Packaging Information

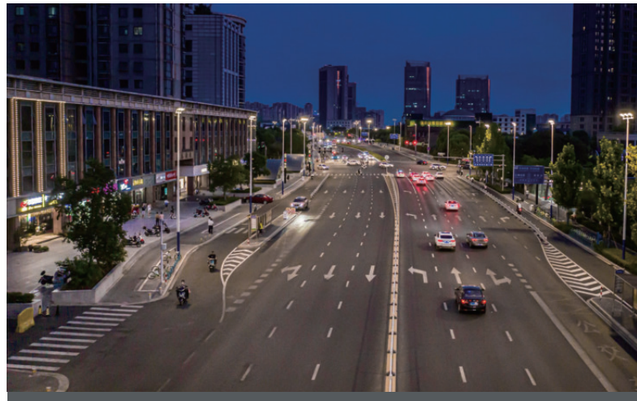
Item Description	Packaging Unit		
	Dimensions(mm) (LxWxH)	Gross Weight (kg)	Packing Qty (pcs/CTN)
LED OP-KZ-Single-4G01 Controller	315*315*382	7.7	36

Dimensional Drawing



OP-KZ-4G01





4G Single Lamp Controller

Cloud-to-Lamp Control

Precision Dimming

Real-Time Fault Alert

IP66

Specification

Item Description
LED OP-KZ-Single-4G02 Controller

Technical Specification	
IP	IP66
Communication	4G
Housing Colour	Grey
Dimmable	0-10V/PWM
Protection Class	I
Weight (kg/pc)	0.45

Electrical Supply	
Frequency(Hz)	50/60
Voltage(V)	100-240
AC / DC	AC
Rated Power	⩽400W
Power Consumption	＜2W

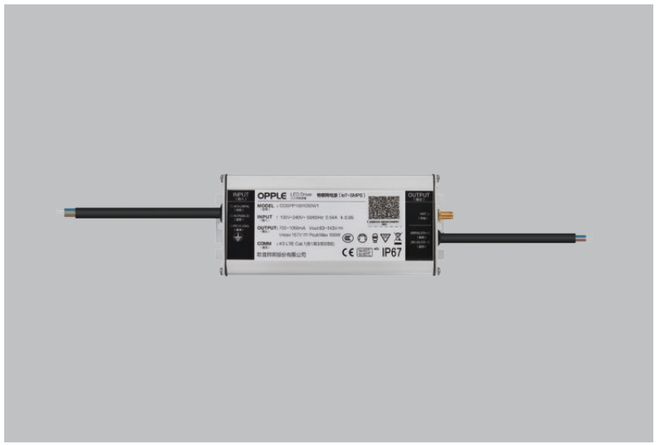
Application Conditions	
Operating Temperature	–40˚C~+65℃
Storage temperature	–40 ˚C ~ +80 ˚C

Packaging Information

Item Description	Packaging Unit		
	Dimensions(mm) (LxWxH)	Gross Weight (kg)	Packing Qty (pcs/CTN)
LED OP-KZ-Single-4G02 Controller	430*260*180	15.8	30

Dimensional Drawing

OP-KZ-4G02





IOT Controller

Integrated Driver-Controller

Cloud-to-Lamp Control

Real-Time Fault Alert

IP67

Up to **10**KV Surge Protection

Specification

Version	Version	Version	Version	Version	Version
High Voltage	OP-ODSPP1001050W1	90-305Vac	100W	63-143V	700-1050mA
	OP-ODSPP1501050W1	90-305Vac	150W	108-215V	700-1050mA
	OP-ODSPP2501050W1	90-305Vac	250W	115-357V	700-1050mA
Low Voltage	OP-ODSPP0601600W1	90-305Vac	60W	28-56V	1000-1600mA
	OP-ODSPP1002800W1	90-305Vac	100W	28-56V	1800-2800mA
	OP-ODSPP1504167W1	90-305Vac	150W	28-56V	2700-4167mA
	OP-ODSPP2506950W1	90-305Vac	250W	28-56V	4460-6950mA

Technical Specification	
IP	IP67
Communication	4G
Dimmable	0-10V
Weight (kg/pc)	0.35/0.5/1.1/0.35/0.35/0.5/1.1

Electrical Supply	
Frequency(Hz)	50/60
Voltage(V)	100-240
AC / DC	AC
Power Factor	>0.95
Surge Protection	Differential Mode 6kV / Common Mode 10kV

Application Conditions	
Operating Temperature	–40°C~+75℃
Storage temperature	–40 °C ~ +80 °C

Packaging Information

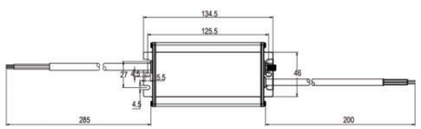
Item Description	Packaging Unit		
	Dimensions(mm) (LxWxH)	Gross Weight (kg)	Packing Qty (pcs/CTN)
OP-ODSPP1001050W1	370*300*205	14.8	20
OP-ODSPP1501050W1	380*330*265	18	20
OP-ODSPP2501050W1	255*230*280	9.84	8
OP-ODSPP0601600W1	370*300*205	12.4	20
OP-ODSPP1002800W1	370*300*205	15	20
OP-ODSPP1504167W1	280*330*265	18.2	20
OP-ODSPP2506950W1	255*230*280	9.9	8

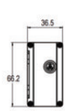




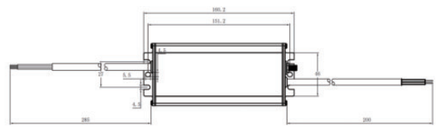
PLC Centralized Controller

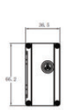
Dimensional Drawing





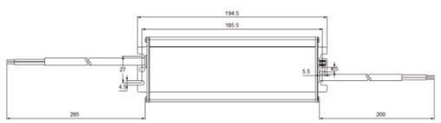
OP-ODSPP0601600W1





OP-ODSPP1001050W1

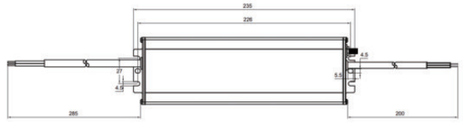
OP-ODSPP1002800W1





OP-ODSPP1501050W1

OP-ODSPP1504167W





OP-ODSPP2501050W1

OP-ODSPP2506950W1

Remote Control

PLC Data Collection

Real-Time Fault Alert

Stable & Reliable

Centralized Control

Specification

Item Description
LED OP-KZ-GW-PLC Controller

Technical Specification	
Communication	PLC (local control) / 4G (cloud management)
Communication Ports	1× RS485 Ports / 1× SD Card Slot"
Power Consumption	＜5W
Housing Material	Flame-retardant ABS
Weight (kg/pc)	0.534

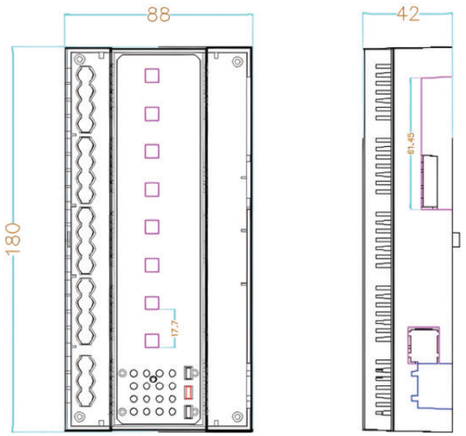
Electrical Supply	
Frequency(Hz)	50/60
Voltage(V)	100-276
AC / DC	AC
Control Circuit	6 Circuits

Application Conditions	
Operating Temperature	–40℃～+65℃
Storage temperature	–25 ℃ ~ +70 ℃

Packaging Information

Item Description	Packaging Unit		
	Dimensions(mm) (LxWxH)	Gross Weight (kg)	Packing Qty (pcs/CTN)
LED OP-KZ-GW-PLC Controller	305*240*115	2.5	4

Dimensional Drawing



OP-KZ-GW-PLC





PLC Single Lamp Controller

Power Line Communication

Stable & Reliable

Real-Time Fault Alert

IP66

Specification

Item Description
LED OP-KZ-Single-PLC02 Controller

Technical Specification	
IP	IP66
Communication	PLC
Housing Colour	Grey
Dimming Method	0-10V/PWM
Protection Class	I
Weight (kg/pc)	0.45

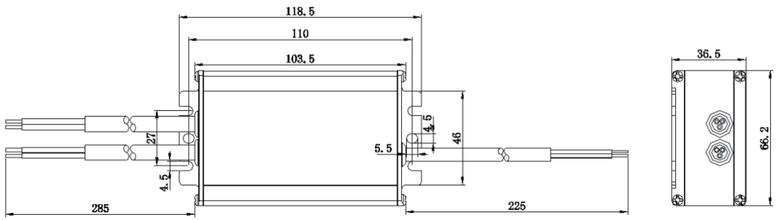
Electrical Supply	
Frequency(Hz)	50/60
Voltage(V)	100-240
AC / DC	AC
Rated Power	⩽480W
Power Consumption	＜2W

Application Conditions	
Operating Temperature	–40˚C~+70℃
Storage temperature	–40 ˚C ~ +80 ˚C

Packaging Information

Item Description	Packaging Unit		
	Dimensions(mm) (LxWxH)	Gross Weight (kg)	Packing Qty (pcs/CTN)
LED OP-KZ-Single-PLC02 Controller	475*285*205	15	30

Dimensional Drawing



OP-KZ-Single-PLC02



LED Streetlight PA



LED Streetlight P2



LED Streetlight PQ2



LED Streetlight EQ

Luminaires - Basic Configurations





LED Streetlight PA

Technical Specification	
CRI	⩾70
Colour Consistency (SDCM)	⩽5
Dimmable	1-10V/PWM
Housing Colour	Grey
IP	66
IK	08
Driver integrated (Yes/No)	Yes
Glow wire test	650°
Weight (kg/pc)	3.8/4.8/4.8/6/6/7.8/7.8/10.8

Electrical Supply	
Frequency (Hz)	50/60
Voltage (V)	100-240
AC / DC	AC

Mechanical Properties	
Housing Material	Die-cast Aluminium
Optical Material	Tempered Glass

Application Conditions	
Operating Temperature	-35~50℃
Application Temperature	25℃
Storage Environment	-40~65℃

100000 hrs+ Extra Long life

Up to 10KV Surge Protection

IK08 Impact Resistant

IP66 Dustproof & Waterproof

Rustproof

Toolless Maintenance

Stream Line Housing

Application

Road Yard Square

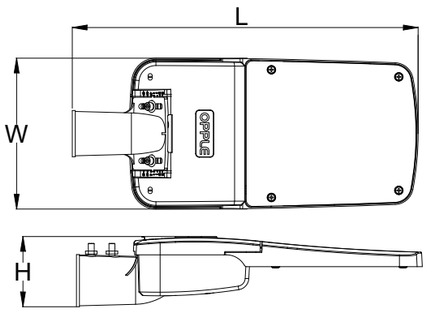
Specification

Item Code	Item Description	Power (W)	CCT (K)	Power Factor	Lumen (lm)	Efficacy (lm/W)	Input Current (A)	Life Time (L70B50)	MOQ (pcs)
705000232401	LED Streetlight-PA 60W-3000-GY-GP3	60	3000	0.9	9000	150	0.27	100000	100
705000232501	LED Streetlight-PA 60W-4000-GY-GP3	60	4000	0.9	9000	150	0.27	100000	100
705000232901	LED Streetlight-PA 60W-5700-GY-GP3	60	5700	0.9	9000	150	0.27	100000	100
705000232801	LED Streetlight-PA 80W-3000-GY-GP3	80	3000	0.9	12000	150	0.36	100000	100
705000232701	LED Streetlight-PA 80W-4000-GY-GP3	80	4000	0.9	12000	150	0.36	100000	100
705000232601	LED Streetlight-PA 80W-5700-GY-GP3	80	5700	0.9	12000	150	0.36	100000	100
705000233001	LED Streetlight-PA 100W-3000-GY-GP3	100	3000	0.9	15000	150	0.45	100000	100
705000233101	LED Streetlight-PA 100W-4000-GY-GP3	100	4000	0.9	15000	150	0.45	100000	100
705000233201	LED Streetlight-PA 100W-5700-GY-GP3	100	5700	0.9	15000	150	0.45	100000	100
705000233301	LED Streetlight-PA 120W-3000-GY-GP3	120	3000	0.9	18000	150	0.54	100000	100
705000233401	LED Streetlight-PA 120W-4000-GY-GP3	120	4000	0.9	18000	150	0.54	100000	100
705000233501	LED Streetlight-PA 120W-5700-GY-GP3	120	5700	0.9	18000	150	0.54	100000	100
705000233601	LED Streetlight-PA 150W-3000-GY-GP3	150	3000	0.9	22500	150	0.68	100000	100
705000233701	LED Streetlight-PA 150W-4000-GY-GP3	150	4000	0.9	22500	150	0.68	100000	100
705000233801	LED Streetlight-PA 150W-5700-GY-GP3	150	5700	0.9	22500	150	0.68	100000	100
705000233901	LED Streetlight-PA 180W-3000-GY-GP2	180	3000	0.9	27000	150	0.81	100000	100
705000238201	LED Streetlight-PA 180W-4000-GY-GP2	180	4000	0.9	27000	150	0.81	100000	100
705000238101	LED Streetlight-PA 180W-5700-GY-GP2	180	5700	0.9	27000	150	0.81	100000	100
705000234001	LED Streetlight-PA 250W-3000-GY-GP2	250	3000	0.9	37500	150	1.13	100000	100
705000238301	LED Streetlight-PA 250W-4000-GY-GP2	250	4000	0.9	37500	150	1.13	100000	100
705000238501	LED Streetlight-PA 250W-5700-GY-GP2	250	5700	0.9	37500	150	1.13	100000	100
705000234101	LED Streetlight-PA 300W-3000-GY-GP2	300	3000	0.9	45000	150	1.36	100000	100
705000238401	LED Streetlight-PA 300W-4000-GY-GP2	300	4000	0.9	45000	150	1.36	100000	100
705000238601	LED Streetlight-PA 300W-5700-GY-GP2	300	5700	0.9	45000	150	1.36	100000	100

Packaging Information

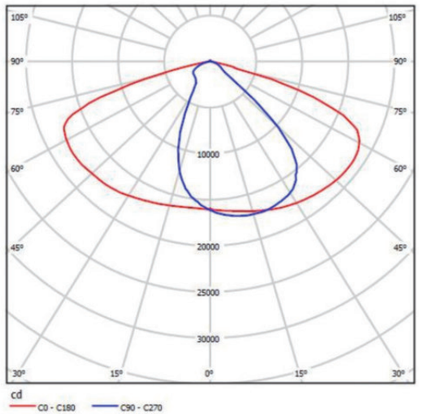
Item Code	Item Description	Packaging Unit（1pc/unit）	
		Dimensions(mm) (LxWxH)	Gross Weight (kg)
705000232401	LED Streetlight-PA 60W-3000-GY-GP3	500*240*165	3.8
705000232501	LED Streetlight-PA 60W-4000-GY-GP3	500*240*165	3.8
705000232901	LED Streetlight-PA 60W-5700-GY-GP3	500*240*165	3.8
705000232801	LED Streetlight-PA 80W-3000-GY-GP3	575*295*165	5.8
705000232701	LED Streetlight-PA 80W-4000-GY-GP3	575*295*165	5.8
705000232601	LED Streetlight-PA 80W-5700-GY-GP3	575*295*165	5.8
705000233001	LED Streetlight-PA 100W-3000-GY-GP3	575*295*165	5.8
705000233101	LED Streetlight-PA 100W-4000-GY-GP3	575*295*165	5.8
705000233201	LED Streetlight-PA 100W-5700-GY-GP3	575*295*165	5.8
705000233301	LED Streetlight-PA 120W-3000-GY-GP3	625*350*160	7.2
705000233401	LED Streetlight-PA 120W-4000-GY-GP3	625*350*160	7.2
705000233501	LED Streetlight-PA 120W-5700-GY-GP3	625*350*160	7.2
705000233601	LED Streetlight-PA 150W-3000-GY-GP3	625*350*160	7.2
705000233701	LED Streetlight-PA 150W-4000-GY-GP3	625*350*160	7.2
705000233801	LED Streetlight-PA 150W-5700-GY-GP3	625*350*160	7.2
705000233901	LED Streetlight-PA 180W-3000-GY-GP2	771*340*160	9.4
705000238201	LED Streetlight-PA 180W-4000-GY-GP2	771*340*160	9.4
705000238101	LED Streetlight-PA 180W-5700-GY-GP2	771*340*160	9.4
705000234001	LED Streetlight-PA 250W-3000-GY-GP2	771*340*160	9.4
705000238301	LED Streetlight-PA 250W-4000-GY-GP2	771*340*160	9.4
705000238501	LED Streetlight-PA 250W-5700-GY-GP2	771*340*160	9.4
705000234101	LED Streetlight-PA 300W-3000-GY-GP2	835*395*160	12.6
705000238401	LED Streetlight-PA 300W-4000-GY-GP2	835*395*160	12.6
705000238601	LED Streetlight-PA 300W-5700-GY-GP2	835*395*160	12.6

Dimensional Drawing



Model	L1(mm)	W(mm)	H(mm)
LED SL-PA 60W	568	210	115
LED SL-PA 80W	648	245	115
LED SL-PA 100W	648	245	115
LED SL-PA 120W	708	300	115
LED SL-PA 150W	708	300	115
LED SL-PA 180W	848	300	115
LED SL-PA 250W	848	300	115
LED SL-PA 300W	907	350	120

Photometric Data







ErP COMPLIANCE — Up to 150 lm/W

50000 hrs+ — Extra Long life

Up to 10KV Surge Protection

IK08 — Impact Resistant

IP66 — Dustproof & Waterproof

Rustproof

Application

Road · Yard · Square

Specification

Item Code	Item Description	Power (W)	CCT (K)	Power Factor	Lumen (lm)	Efficacy (lm/W)	Input Current (mA)	Lifetime (L70B50)	MOQ (pcs)
543014020710	LED Streetlight-P2 80W-3000-GY-GP	80	3000	0.95	11000	138	370	50000	100
543014020810	LED Streetlight-P2 80W-4000-GY-GP	80	4000	0.95	11000	138	370	50000	100
543014020910	LED Streetlight-P2 80W-5700-GY-GP	80	5700	0.95	11000	138	370	50000	100
543014021010	LED Streetlight-P2 120W-3000-GY-GP	120	3000	0.95	17000	142	560	50000	100
543014021110	LED Streetlight-P2 120W-4000-GY-GP	120	4000	0.95	17000	142	560	50000	100
543014021210	LED Streetlight-P2 120W-5700-GY-GP	120	5700	0.95	17000	142	560	50000	100
705000110300	LED Streetlight-P2 150W-3000-GY-GP-2	150	3000	0.95	21000	140	690	50000	100
705000110400	LED Streetlight-P2 150W-4000-GY-GP-2	150	4000	0.95	21000	140	690	50000	100
705000110500	LED Streetlight-P2 150W-5700-GY-GP-2	150	5700	0.95	21000	140	690	50000	100
705000110600	LED Streetlight-P2 180W-3000-GY-GP-2	180	3000	0.95	27000	150	830	50000	100
705000110700	LED Streetlight-P2 180W-4000-GY-GP-2	180	4000	0.95	27000	150	830	50000	100
705000110800	LED Streetlight-P2 180W-5700-GY-GP-2	180	5700	0.95	27000	150	830	50000	100

Technical Specifications	
CRI	⩾70
Colour Consistency (SDCM)	5
Dimmable	1-10V/PWM
Housing Colour	Grey
IP	IP66
IK	IK08
Driver integrated (Yes/No)	Yes
Glow wire test	650°C
Driver failure rate	1% at 5000h
Weight (kg/pc)	6.7/7.8/7.8/8.8

Electrical Supply	
Frequency (Hz)	50/60
Voltage (V)	100-240
AC/DC	AC

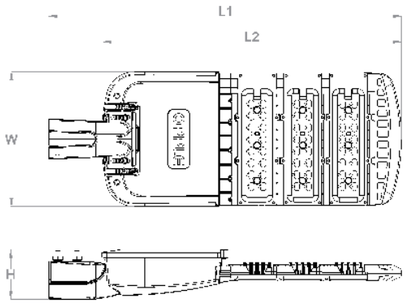
Mechanical Properties	
Housing Material	Die-cast Aluminum
Optical Material	PC

Application Conditions	
Operating Temperature	-35-50°C
Application Temperature	25°C
Storage Environment	-40-65°C

Packaging Information

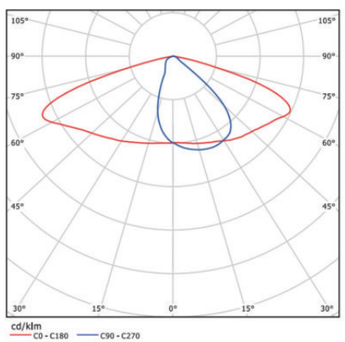
Item		Packaging Unit（1pc/unit）	
Item Code	Item Description	Dimensions(mm) (LxWxH)	Gross Weight (kg)
543014020710	LED Streetlight-P2 80W-3000-GY-GP	750*355*155	7.8
543014020810	LED Streetlight-P2 80W-4000-GY-GP	750*355*155	7.8
543014020910	LED Streetlight-P2 80W-5700-GY-GP	750*355*155	7.8
543014021010	LED Streetlight-P2 120W-3000-GY-GP	845*355*155	9.2
543014021110	LED Streetlight-P2 120W-4000-GY-GP	845*355*155	9.2
543014021210	LED Streetlight-P2 120W-5700-GY-GP	845*355*155	9.2
705000110300	LED Streetlight-P2 150W-3000-GY-GP-2	854*355*155	9.2
705000110400	LED Streetlight-P2 150W-4000-GY-GP-2	854*355*155	9.2
705000110500	LED Streetlight-P2 150W-5700-GY-GP-2	854*355*155	9.2
705000110600	LED Streetlight-P2 180W-3000-GY-GP-2	940*355*155	10.8
705000110700	LED Streetlight-P2 180W-4000-GY-GP-2	940*355*155	10.8
705000110800	LED Streetlight-P2 180W-5700-GY-GP-2	940*355*155	10.8

Dimensional Drawing



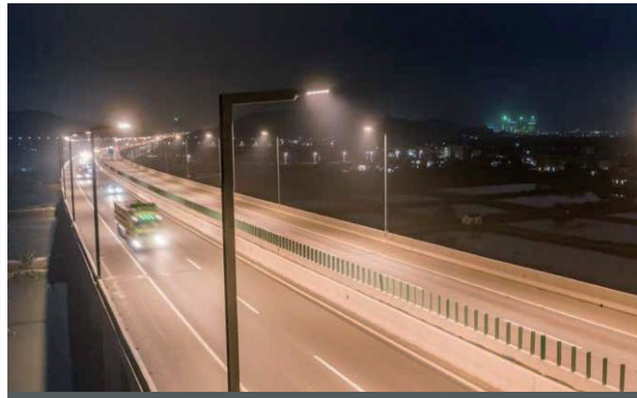
Model	L1(mm)	L2(mm)	W(mm)	H(mm)
LED SL-P2 80W	647	533	286	105
LED SL-P2 120W	743	629	286	105
LED SL-P2 150W	743	629	286	105
LED SL-P2 180W	935	821	286	105

Photometric Data



146°+66°





LED Streetlight PQ2

Extra Long life

Up to 10KV Surge Protection

Impact Resistant

Dustproof & Waterproof

Rustproof

Toolless Maintenance

Application

Road

Yard

Square

Specification

Item Code	Item Description	Power（W）	CCT (K)	Power Factor	Lumen (lm)	Efficacy (lm/W)	Life Time (L70B50)
705000108800	LED Streetlight-PQ2 60W-3000-GY-GP	60	3000	0.95	8100	135	50000
705000108900	LED Streetlight-PQ2 60W-4000-GY-GP	60	4000	0.95	8100	135	50000
705000109000	LED Streetlight-PQ2 60W-5700-GY-GP	60	5700	0.95	8100	135	50000
705000114400	LED Streetlight-PQ2 80W-3000-GY-GP	80	3000	0.95	10400	130	50000
705000114500	LED Streetlight-PQ2 80W-4000-GY-GP	80	4000	0.95	10400	130	50000
705000114600	LED Streetlight-PQ2 80W-5700-GY-GP	80	5700	0.95	10400	130	50000
705000109400	LED Streetlight-PQ2 120W-3000-GY-GP	120	3000	0.95	16200	135	50000
705000109500	LED Streetlight-PQ2 120W-4000-GY-GP	120	4000	0.95	16200	135	50000
705000109600	LED Streetlight-PQ2 120W-5700-GY-GP	120	5700	0.95	16200	135	50000
705000109700	LED Streetlight-PQ2 150W-3000-GY-GP	150	3000	0.95	19500	130	50000
705000109800	LED Streetlight-PQ2 150W-4000-GY-GP	150	4000	0.95	19500	130	50000
705000109900	LED Streetlight-PQ2 150W-5700-GY-GP	150	5700	0.95	19500	130	50000
705000110000	LED Streetlight-PQ2 200W-3000-GY-GP	200	3000	0.95	27000	135	50000
705000110100	LED Streetlight-PQ2 200W-4000-GY-GP	200	4000	0.95	27000	135	50000
705000110200	LED Streetlight-PQ2 200W-5700-GY-GP	200	5700	0.95	27000	135	50000

Technical Specifications	
CRI	⩾70
Colour Consistency (SDCM)	5
Dimmable	1-10V/PWM
Housing Colour	Grey
IP	IP66
IK	IK08
Driver integrated (Yes/No)	Yes
Glow wire test	650°C
Weight (kg/pc)	2.7/2.7/5.3/5.3/6.4

Electrical Supply	
Frequency (Hz)	50/60
Voltage (V)	100-240
AC/DC	AC

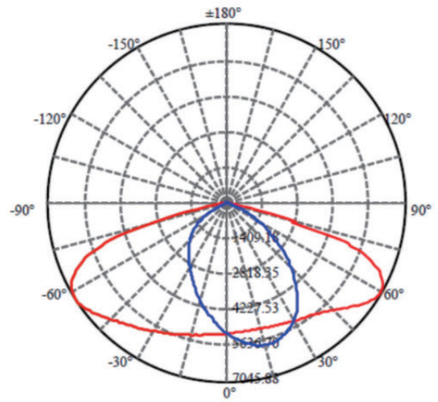
Mechanical Properties	
Housing Material	Die-cast Aluminum
Optical Material	PC

Application Conditions	
Operating Temperature	-35-50°C
Application Temperature	25°C
Storage Environment	-40-65°C

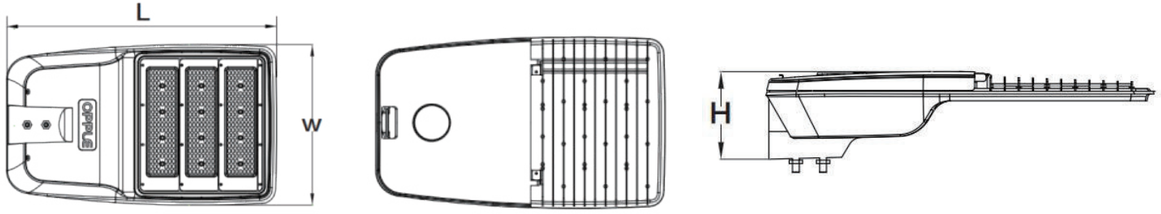
Packaging Information

Item		Packaging Unit（1pc/unit）		
Item Code	Item Description	Dimensions(mm) (LxWxH)	Gross Weight (kg)	Packing Qty (pcs/unit)
705000108800	LED Streetlight-PQ2 60W-3000-GY-GP	445*205*160	3.2	1
705000108900	LED Streetlight-PQ2 60W-4000-GY-GP	445*205*160	3.2	1
705000109000	LED Streetlight-PQ2 60W-5700-GY-GP	445*205*160	3.2	1
705000114400	LED Streetlight-PQ2 80W-3000-GY-GP	445*205*160	3.2	1
705000114500	LED Streetlight-PQ2 80W-4000-GY-GP	445*205*160	3.2	1
705000114600	LED Streetlight-PQ2 80W-5700-GY-GP	445*205*160	3.2	1
705000109400	LED Streetlight-PQ2 120W-3000-GY-GP	540*365*165	6.7	1
705000109500	LED Streetlight-PQ2 120W-4000-GY-GP	540*365*165	6.7	1
705000109600	LED Streetlight-PQ2 120W-5700-GY-GP	540*365*165	6.7	1
705000109700	LED Streetlight-PQ2 150W-3000-GY-GP	540*365*165	6.7	1
705000109800	LED Streetlight-PQ2 150W-4000-GY-GP	540*365*165	6.7	1
705000109900	LED Streetlight-PQ2 150W-5700-GY-GP	540*365*165	6.7	1
705000110000	LED Streetlight-PQ2 200W-3000-GY-GP	615*395*165	7.8	1
705000110100	LED Streetlight-PQ2 200W-4000-GY-GP	615*395*165	7.8	1
705000110200	LED Streetlight-PQ2 200W-5700-GY-GP	615*395*165	7.8	1

Photometric Data

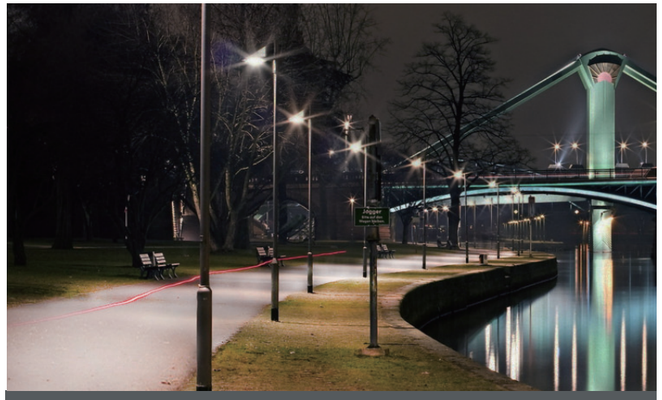


Dimensional Drawing



Model	L(mm)	W(mm)	H(mm)
LED SL-PQ2 60W	395	180	123
LED SL-PQ2 80W	395	180	123
LED SL-PQ2 120W	496	340	128
LED SL-PQ2 150W	496	340	128
LED SL-PQ2 200W	572	340	128





LED Streetlight EQ

Up to 6KV Surge Protection

IK08 Impact Resistant

IP66 Dustproof & Waterproof

Rustproof

Application

Minor Road

Pedestrian Area

Residence Area

Parking

Specification

Item Code	Item Description	Power (W)	CCT (K)	Power Factor	Lumen (lm)	Efficacy (lm/W)	Life Time (L70B50)	MOQ (pcs)
543014043200	LEDStreetlight-EQ20W-3000-150+70D-GY-GP2	20	3000	0.95	1800	90	30000	108
543014043300	LEDStreetlight-EQ20W-4000-150+70D-GY-GP2	20	4000	0.95	2000	100	30000	108
543014043400	LEDStreetlight-EQ20W-5700-150+70D-GY-GP2	20	5700	0.95	2000	100	30000	108
140058463	LEDStreetlight-EQ 40W-3000-150+70D-GY-GP	40	3000	0.95	3680	92	30000	102
140058465	LEDStreetlight-EQ 40W-4000-150+70D-GY-GP	40	4000	0.95	3920	98	30000	102
140058464	LEDStreetlight-EQ 40W-5700-150+70D-GY-GP	40	5700	0.95	4000	100	30000	102
705000048900	LEDStreetlight-EQ60W-3000-150+70D-GY-GP2	60	3000	0.95	7500	125	50000	102
705000048800	LEDStreetlight-EQ60W-5700-150+70D-GY-GP2	60	5700	0.95	7500	125	50000	102

Technical Specification	
CRI	⩾80(20W&40 W) ⩾70(60W)
Colour Consistency (SDCM)	7
Dimmable	No
Beam Angle (°)	150+70
Housing Colour	Grey
IP	IP66
Driver integrated (Yes/No)	Yes
Glow wire test	650°C
Weight (kg/pc)	0.637(20W) 1.222(40W) 1.27(60W)

Electrical Supply	
Frequency (Hz)	50/60
Voltage (V)	100-240
AC / DC	AC

Mechanical Properties	
Housing Material	Die-cast Aiuminum
Optical Material	PC

Application Conditions	
Operating Temperature	-35-50°C
Storage Environment	-35-65°C

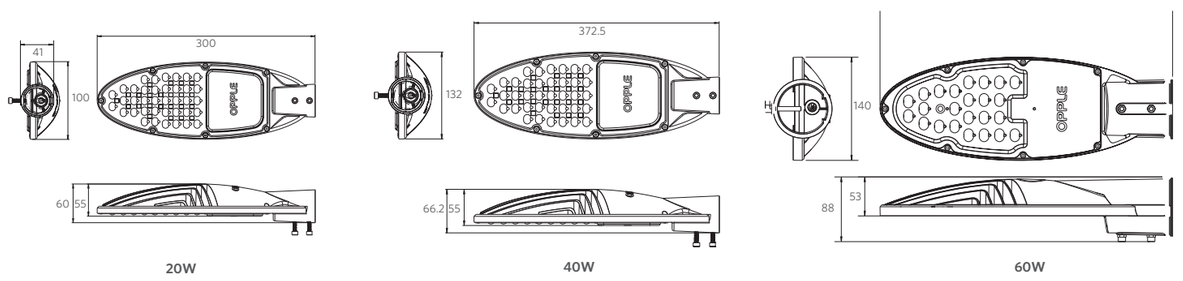
Packaging Information

Item Code	Item Description	Single Box(1pc/box)		Packaging Unit		
		Dimensions(mm) (LxWxH)	Gross Weight (kg)	Dimensions(mm) (LxWxH)	Gross Weight (kg)	Packing Qty (pcs/unit)
543014043200	LEDStreetlight-EQ20W-3000-150+70D-GY-GP2	324*114*72	0.805	480*235*345	9.66	12
543014043300	LEDStreetlight-EQ20W-4000-150+70D-GY-GP2	324*114*72	0.805	480*235*345	9.66	12
543014043400	LEDStreetlight-EQ20W-5700-150+70D-GY-GP2	324*114*72	0.805	480*235*345	9.66	12
140058463	LEDStreetlight-EQ 40W-3000-150+70D-GY-GP	391*140*86	1.49	414*302*282	8.96	6
140058465	LEDStreetlight-EQ 40W-4000-150+70D-GY-GP	391*140*86	1.49	414*302*282	8.96	6
140058464	LEDStreetlight-EQ 40W-5700-150+70D-GY-GP	391*140*86	1.49	414*302*282	8.96	6
705000048900	LEDStreetlight-EQ60W-3000-150+70D-GY-GP2	148*96*407	1.511	315*310*425	9.066	6
705000048800	LEDStreetlight-EQ60W-5700-150+70D-GY-GP2	148*96*407	1.511	315*310*425	9.066	6

Accessory

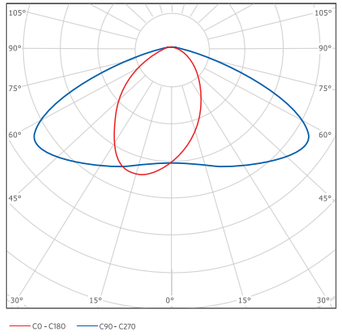
Picture	Item Code	Accessories	Pole Diameter(mm)	Weight(kg/pc)	MOQ(PCS)
	705098003600	LEDStreetlight Wall-Bracket-60	D60	0.94	150

Dimensional Drawing



20W 40W 60W

Photometric Data



150°+70°

Successful Cases

Road Lighting Renovation Project in Suzhou

300,000 lights have been upgraded,
saving approximately 250 million kWh of electricity annually.

300,000+
Smart Streetlights

250 million
kWh of electricity saved

Road Lighting Renovation Project (EMC) in Wujiang, Suzhou

A leading large-scale low-power wide-area network smart streetlight system in China, with over 100,000 smart streetlights already connected.



Single Lamp Controller



LED Streetlight P2



Streetlight Management Platform



100,000 Single Lamps Control

Suzhou High-tech Industrial Zone Road Lighting Renovation Project (EMC)

Upgraded over 50,000 streetlights, selected for the Outstanding Engineering Award at the 26th Aladdin Lamp Awards.



IoT Driver



Streetlight Controller



LED Streetlight PA



Streetlight Management Platform



Smart Streetlight
50,000+

99.5%

Lighting Rate
⩾**99.5%**

Smart Road Lighting Renovation Project in Kunshan, Jiangsu

Nearly 30 major urban roads were renovated, over 7,000 streetlights equipped with single lamp controllers, achieving smart and refined management.



Single Lamp Controller



IoT Driver



LED Streetlight PA

Smart Road Lighting Renovation Project in Changzhou, Jiangsu

Over 20,000 LED streetlights and over 6,800 LED floodlights are used in the project, with each streetlight equipped with a 5G communication-based control node, achieving a 57% energy savings rate.



Single Lamp Controller



LED Floodlight P



LED Streetlight PA



30,000+ Smart Streetlights

Jin Feng Town Smart Road Lighting Renovation Project in Zhangjiagang, Jiangsu （EMC）

6,000+ LED light sources on over 60 local roads have completed the renovation, with the installation of over 6,200 single lamp controllers



Single Lamp Controller



LED Streetlight PA



Streetlight Management Platform

6,200+
Single Lamp Controllers

57%
57%
Energy Savings Rate

Municipal Road Lighting Renovation Project in Nantong, Jiangsu

Utilizes 500 single lamp controllers and 300 centralized controllers.



Single Lamp Controller



Centralized Controller

Zhuhai Airport Expressway Lighting Project in Guangdong

It is an important hub connecting the western area of Zhuhai, and the project utilizes over 10,000 single lamp controllers.



Single Lamp Controller



LED Module Streetlight

Wenzhou Streetlight Facilities Energy Efficiency Renovation PPP Project

30,000 Single lamp controllers and 1,200 centralized controllers are used in the new smart control system for streetlights in Rui'an, supporting the local digital urban development.



Single Lamp Controller



Centralized Controller



LED Streetlight PA