B3 GERMANY
THE MASTERS OF LIGHT

Sao Paulo
City circuit light series

POWER 50W/100W/150W/200W

Technical

General highlights

Used for any outdoor lighting places such as roads, squares, scenic spots, etc

Working temperature: -30 ° C/+50 ° C

Adopting buckle design for easy installation and maintenance

Using high-quality chips

Less light decay, long-lasting and durable

The sleeve adopts a clamping design

Lamp poles with different calibers

Excellent heat dissipation

Shell and Finish

Corrosion resistant die cast aluminum casing

Electrostatic powder coating

Protection level: IP66

Impact protection: IK09

Optical properties

Different lens arrangements in different areas and installation areas

Uniform light distribution

Modular design of light source for easy replacement

Lumen output (absolute metering): 10000lm-40000lm

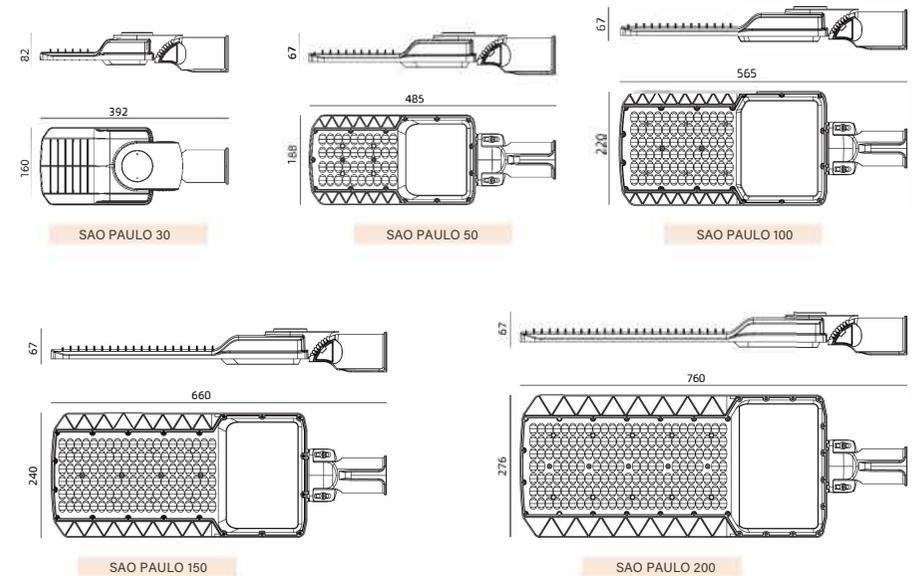Color temperature: 2200K-6500K

Color rendering index:>70

Technical Parameter					
Model	SAO PAULO 30	SAO PAULO 50	SAO PAULO 100	SAO PAULO 150	SAO PAULO 200
Power	30W	50W	100W	150W	200W
INPUT VOLTAGE	AC100-277V				
Frequency range	50Hz/60Hz				
Power factor	> 0.95				
Efficiency	200Lm/W				
Lifetime	50000H				
CRI	CRI70				
CCT	2200K-6500K				
IP	IP66				
IK	IK09				
Working temperature	-30~+50℃				
Storage temperature	-20℃~60℃.10%~90% RH				
Lens Material	PC Lens PC				
Installation height	6-8m	6-8m	8-10m	10-12m	10-12m

Size (mm)

SAO PAULO 30

SAO PAULO 50

SAO PAULO 100

SAO PAULO 150

SAO PAULO 200

| SAO PAULO 30 | SAO PAULO 50 | SAO PAULO 100 | SAO PAULO 150 | SAO PAULO 200 |

Detail display

The casing is made of corrosion-resistant
die-cast aluminum (ADC12),
With corrosion-resistant powder coating.

100-277V	CRI 70
10-90%RH	PF >0.95
CCT 2200K~6500K	50000H
50-60Hz	-30℃ 50℃
IP66	IK09

High strength imported PC optical lens,
Bat wing light distribution. Easy to replace lens.

Integrated bottom cover

Adjustable sleeve angle

If necessary, various sensors/light
management systems can be
equipped at this position of the lamp
to achieve functions such as photo-
electric timing, dimming, remote
management, and fault alarm.

- **Integrated gland design**

① ② ③

A hexagonal wrench can quickly and safely tighten screws and complete installation.
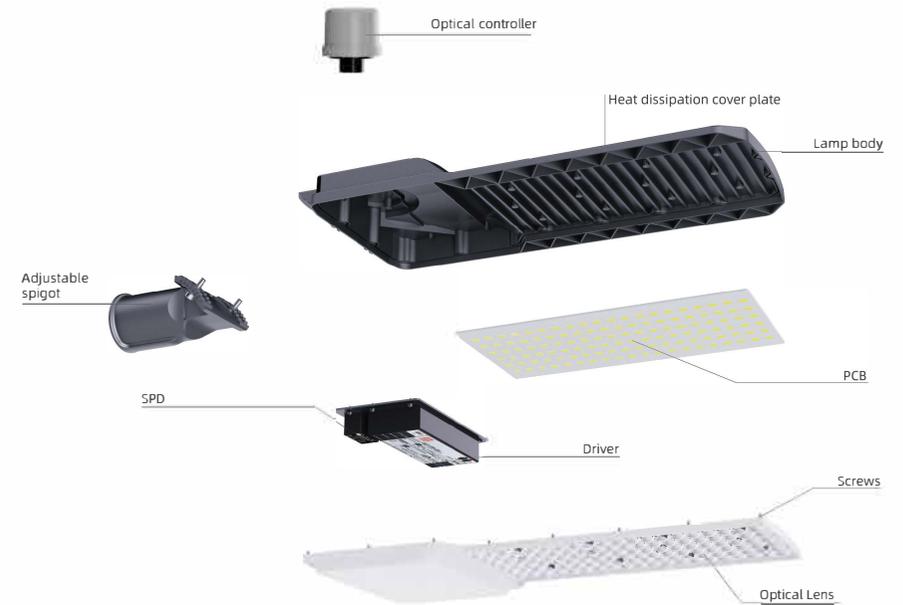
The plug and play design concept allows for simple and safe installation: the factory has installed an 8m connecting cable, which can be installed without opening the lighting fixture. Longer cables can be provided according to requirements.

Plug & Play

Installation of one lamp and two lamps: For horizontal and vertical installation, suitable installation methods can be selected based on different lighting requirements.

Structure display

Optical controller

Heat dissipation cover plate

Lamp body

Adjustable spigot

PCB

SPD

Driver

Screws

Optical Lens

◎ The classic integrated heat dissipation design increases heat dissipation efficiency and enables efficient heat dissipation of lighting fixtures.

◎ There are various optical components to choose from.

◎ Independent power drive for easy maintenance.

◎ Two installation methods: horizontal installation, vertical installation, and adjustable support angle.

◎ The lightning protection module can protect electrical equipment from damage caused by lightning overvoltage, operating overvoltage, and power frequency transient overvoltage.

◎ The optical controller can be optionally installed to facilitate optical control and other intelligent controls.

Installation instructions

Steps for Vertical Installation

①

Align the sleeve fixing hole with the screw hole, and fix the sleeve with the hexagon bolt and flat washer with a hexagon wrench.

②

Align the lamp with the lamp pole and insert it, and fix it with hexagon wrench and hexagon socket bolt.
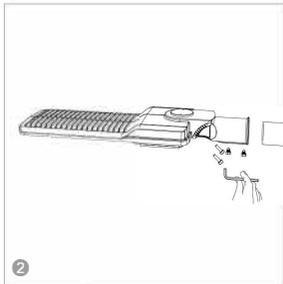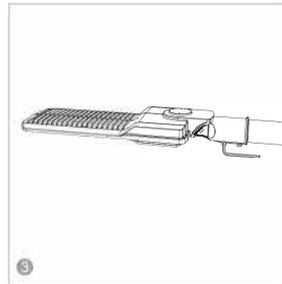
③

The effect of lamps after installation.

Steps for Horizontal Installation

①

Align the sleeve fixing hole with the screw hole, and fix the sleeve with the hexagon bolt and flat washer with a hexagon wrench.

②

Align the lamp with the lamp pole and insert it, and fix it with hexagon wrench and hexagon socket bolt.
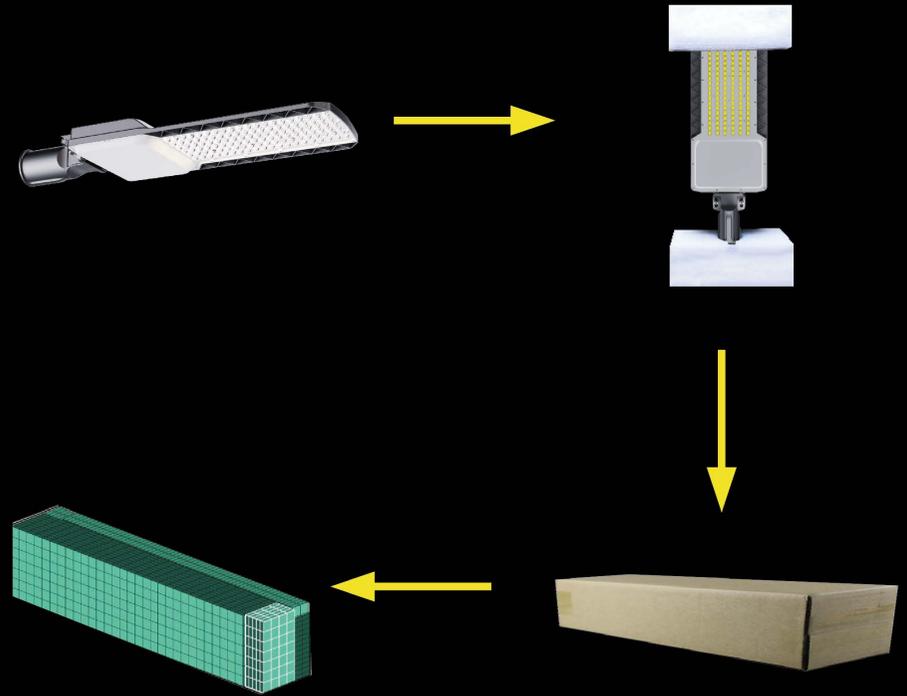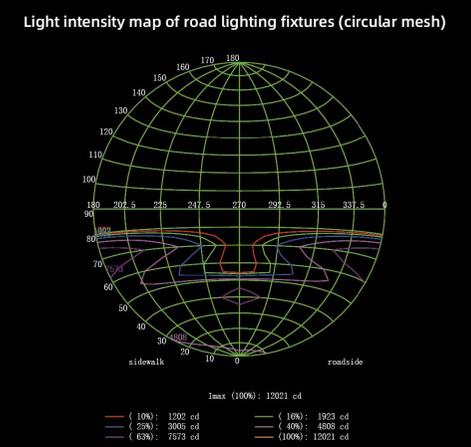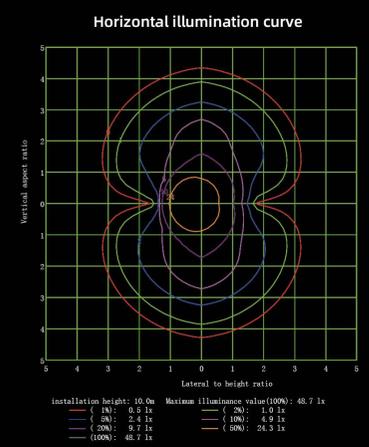
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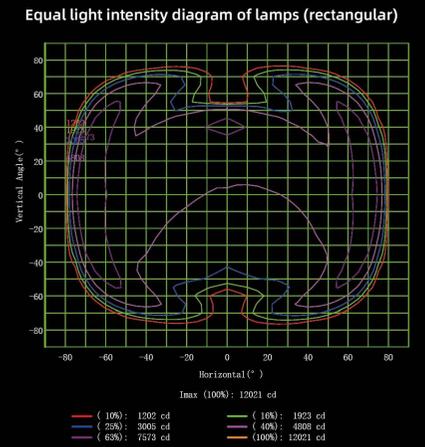The effect of lamps after installation.

Precautions:

1. The working voltage of this model of lamp is based on the product specification and reference to the product label;

2. All wiring must comply with national installation standards, and all joints must be properly connected and waterproof treated;

3. Lamp maintenance or replacement requires qualified personnel to replace to avoid danger;

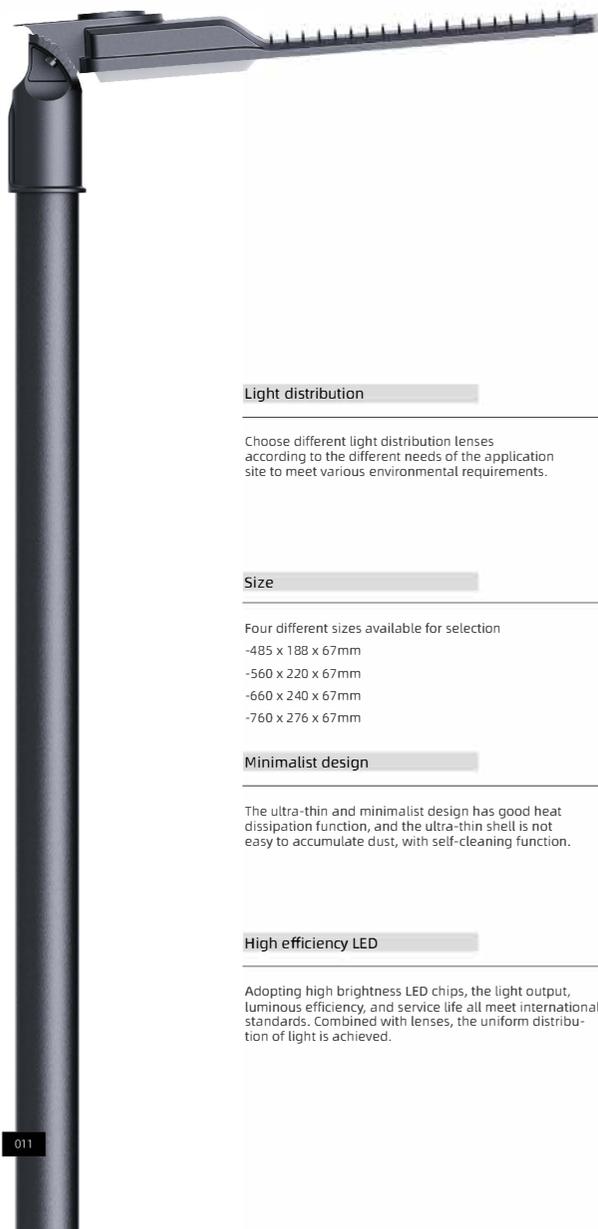4. The controller modulation should be operated according to the instructions.

Packaging display

Light distribution display

Distribution curve flux

unit: cd

Average beam angle(50%): 110.6°

—— C0-C180   —— C90-C270   —— G69

Equal light intensity diagram of lamps (rectangular)

Vertical Angle(°)

Horizontal(°)

Imax (100%): 12021 cd

—— (10%): 1202 cd	—— (16%): 1923 cd
—— (25%): 3005 cd	—— (40%): 4808 cd
—— (63%): 7573 cd	—— (100%): 12021 cd

Horizontal illumination curve

Vertical aspect ratio

Lateral to height ratio

installation height: 10.0m   Maximum illuminance value(100%): 48.7 lx

—— (1%): 0.5 lx	—— (2%): 1.0 lx
—— (5%): 2.4 lx	—— (10%): 4.9 lx
—— (20%): 9.7 lx	—— (50%): 24.3 lx
—— (100%): 48.7 lx	

Light intensity map of road lighting fixtures (circular mesh)

sidewalk   roadside

Imax (100%): 12021 cd

—— (10%): 1202 cd	—— (16%): 1923 cd
—— (25%): 3005 cd	—— (40%): 4808 cd
—— (63%): 7573 cd	—— (100%): 12021 cd

Detail highlights

Intelligent controller design

Wireless control technologies such as Zigbee, NB, 4G, and Wifimesh can be used in conjunction with smart control cloud platforms.

Based on professional technology and using streetlight resources as a carrier, it can achieve precise positioning, on-demand lighting, manual line inspection, fault alarm, and other functions;

By adopting a new management system, comprehensive regulation can achieve multiple functions.

There are two control modes: standard mode and induction mode, and the required control mode can be selected according to the installation environment.

1. Standard mode: Installing the APP can achieve local or remote group control, switch and dimming control of lighting fixtures, and can also be used in conjunction with local scene switches.

2. Induction mode: The light controller is equipped with microwave radar induction function, which can achieve induction linkage within the group according to the lighting requirements.

Light distribution

Choose different light distribution lenses according to the different needs of the application site to meet various environmental requirements.

Size

Four different sizes available for selection

-485 x 188 x 67mm

-560 x 220 x 67mm

-660 x 240 x 67mm

-760 x 276 x 67mm

Minimalist design

The ultra-thin and minimalist design has good heat dissipation function, and the ultra-thin shell is not easy to accumulate dust, with self-cleaning function.

High efficiency LED

Adopting high brightness LED chips, the light output, luminous efficiency, and service life all meet international standards. Combined with lenses, the uniform distribution of light is achieved.