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Polaris-B 北极星-B

The practical luminaire range for street lighting, from residential neighborhoods to freeways.

适用于街道照明的高光效灯具系列，从住宅区到高速公路均可适配

40W-240W

Polaris-B01



Polaris-B02



Polaris-B03



Polaris-B04





Perfect lighting. This has provided convenience, To-day's intelligent features. Polaris street lighting echnology, efficiency, and environmental protection. Through intelligent interfaces, you can gain convenience, future feasibili-ty, intelligent control, intelligent diagnosis, and flexible connectivity.

完美的照明方案为您提供便利，智能北极星路灯照明系列，高效且环保。通过NEMA，ZHAGA接口，您可以获得便利、未来可行性、智能控制、智能诊断以及灵活的连接性。

Polaris

Road Light Create safely

北极星路灯

安全照明，创造未来



Road light Polaris intelligent interface-think about the future, take a step ahead.

路灯北极星智能界面——思考未来，领先一步。

Making the future Green

Components you can exchange in a breeze. Recycled and recyclable materials. Insect-friendly light colors(e 9.,2,200 K). lumination without any light pollution or light spill(ULOR O).Environmental protection reflected in every detail.

Patented reflector technology Non-yellowing covers Precise illumination Dark sky Maximum LED output Top efficiency Outstanding visibility. It's all awin-win-win for the next 100,000 hours and beyond.

绿色照明，守护未来

部件更换轻松便捷，采用可回收和可再利用材料。色温：2200~6500 K），低色温对昆虫友好。配光可控，无溢光污染，每个细节都体现了环保理念。

专利反射技术；不泛黄的灯罩；精准控光设计；暗天模式；最大LED光效>200lm/W；卓越的可见度；寿命长达100,000小时以上。



IK09



IP66



Polaris-B
北极星-B

City street light series
城市路灯系列

Technical norm / 技术规范

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
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): 10800lm-36000lm
Color temperature: 2200K-6500K
Color rendering index: >70

总体亮点

适用于道路、广场、景点等各种户外照明场所
工作温度:-30°C/+50°C
采用卡扣式设计, 便于安装和维护
使用高品质LED芯片
光衰小, 持久耐用
套筒采用夹紧设计, 适配性强
支持多种不同口径的灯杆安装
散热性能优异
耐腐蚀压铸铝外壳
静电粉末涂料
防护等级:IP66冲击防护:IK09

光学性质

不同安装区域的不同透镜布置
光分布均匀
光源模块化设计, 易于更换
光效高于200lm/w
色温:2200K-6500K
显色指数:>70



Polaris-B01



Polaris-B02



Polaris-B03



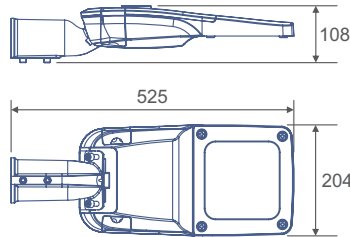
Polaris-B04

PRODUCT PARAMETERS / 产品参数

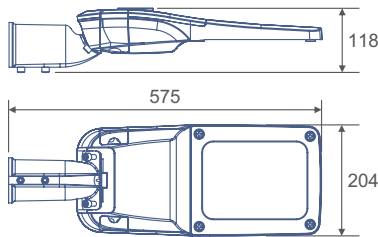
Model	Polaris-B01	Polaris-B02	Polaris-B03	Polaris-B04
Power	40-60W	60-120W	120-180W	180-240W
INPUT VOLTAGE	AC100-277V			
Frequency range	50Hz/60Hz			
Power factor	>0.95			
Whole lighting effect	180lm/W			
LED lifespan	50000H			
Rendering Index	CRI70/80			
Color temperature	2200K-6500K 2200K/2700K/3000K/4000K/5000K/5700K/6500K			
IP	IP66			
IK	IK09			
Operation temperature	-30+50°C			
Storage temperature	-20°C~60°C.10%~90%RH			
Lens Material	PC Lens			
Installation height	4-6m	6-9m	9-11m	10-13m

PRODUCT SIZE / 产品尺寸

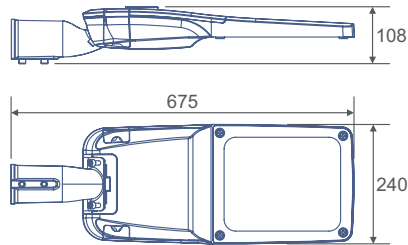
Polaris-B01



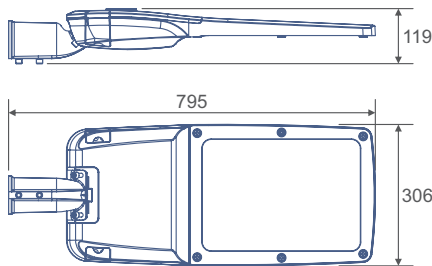
Polaris-B02



Polaris-B03



Polaris-B04



LAMP STRUCTURE 灯具结构

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

外壳为压铸铝（AD12）材质，搭配耐腐蚀粉末涂层。

High strength imported PC optical lens, Bat wing light distribution. Easy to replace lens.
高强度进口PC光学透镜，蝙蝠翼配光设计；透镜易更换。

Adjustable sleeve angle,
There are two installation methods available
可调套筒角度，有两种安装方法可供选择

 100-277V	 70 CRI
 10-90%RH	 PF >0.95
 CCT 2200-6500K	 5000H
 50-60Hz	 50°C -30°C
 IP66	 IK09

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.

即插即用的设计理念允许简单的安装：工厂可安装适配灯杆长度的电缆，无需打开照明设备即可安装。可根据项目要求进行定制。

• Buckle shrapnel switch design / 卡扣弹片开关设计



PRODUCT PARAMETERS / 产品参数



A hexagonal wrench can quickly and safely tighten screws and complete installation.
六角扳手可以快速且安全地拧紧螺丝并完成安装



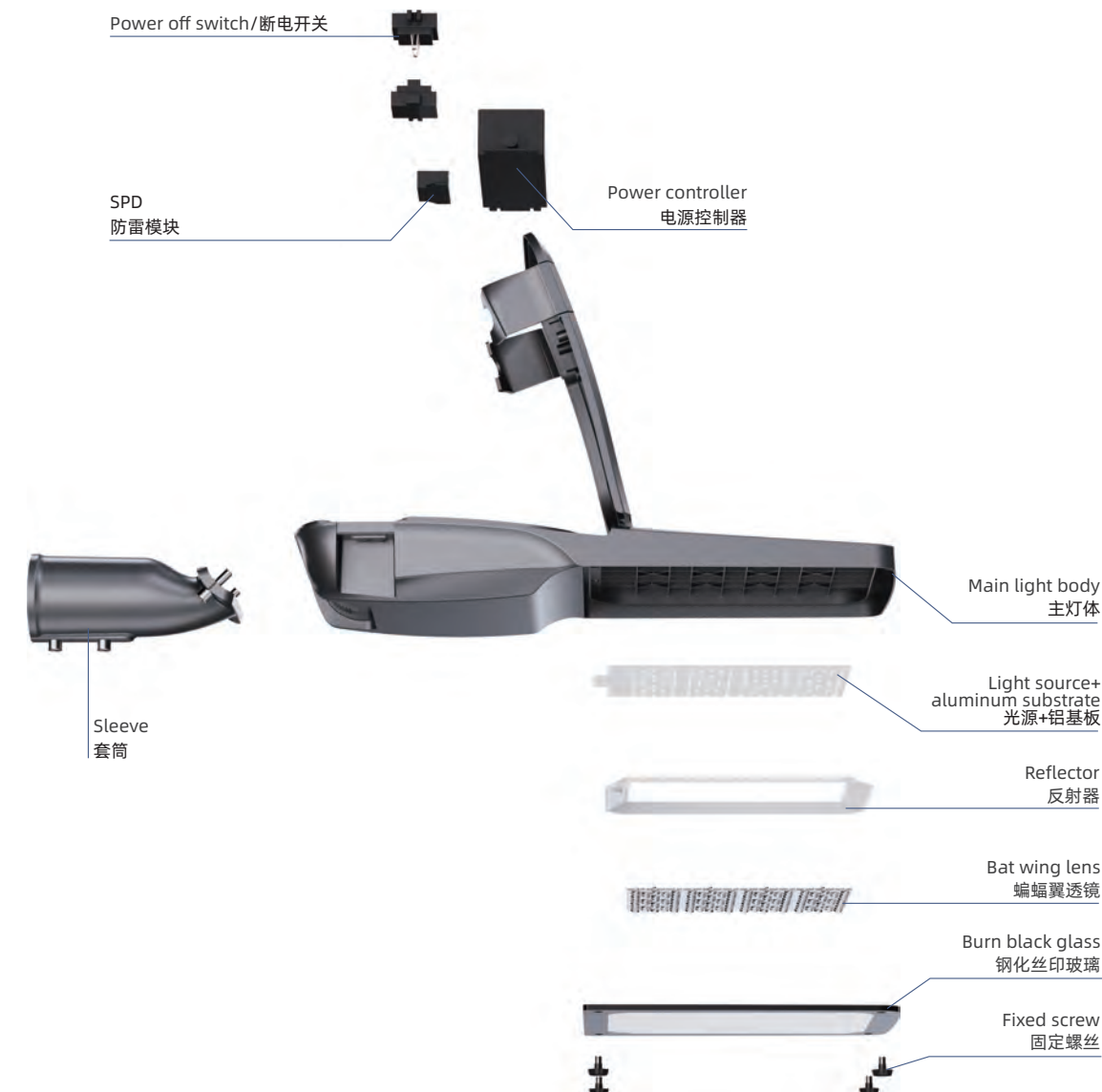
If necessary, various sensors/light management systems can be equipped at this position of the lamp to achieve functions such as photoelectric timing, dimming, remote management, and fault alarm.

如有需要，可在灯的该位置配备各种传感器/光管理系统，以实现光电计时、调光远程管理和故障报警等功能



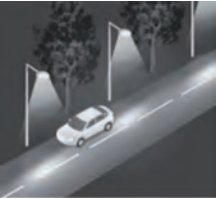
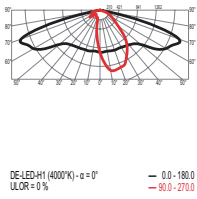
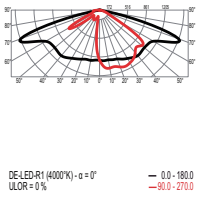
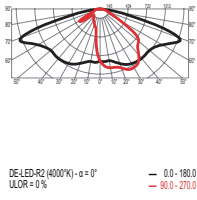
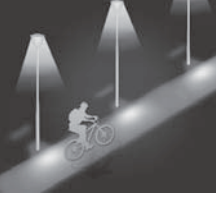
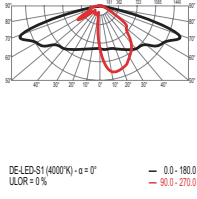
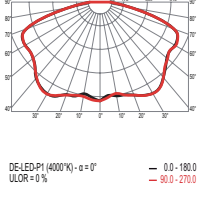
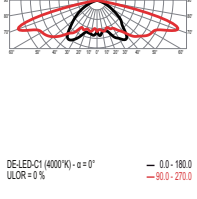
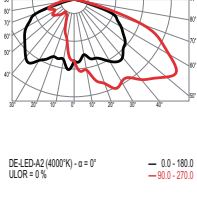
Installation of one lamp and two lamps: For horizontal and vertical installation, suitable installation methods can be selected based on different lighting requirements.

两种安装方式：水平和垂直安装，可以根据不同的照明要求选择合适的安装方法。



- ◎ The classic integrated heat dissipation hole design increases heat dissipation efficiency, making the lamp efficient in heat dissipation.
采用经典的一体化散热孔设计提高了散热效率，使灯具具有高效的散热性能。
- ◎ There are various optical components to choose from.
多种配光方案可供选择。
- ◎ Independent power drive for easy maintenance.
独立电源驱动，便于维护。
- ◎ Two installation methods: horizontal installation, vertical installation, and adjustable support angle.
两种安装方式：水平安装，垂直安装，并且支持角度可调。
- ◎ The lightning protection module can protect electrical equipment from damage caused by lightning overvoltage, operating overvoltage, and power frequency transient overvoltage.
避雷器模块可以保护电气设备免受雷电过电压、操作过电压和工频暂态过电压造成的损害
- ◎ The optical controller can be optionally installed to facilitate optical control and other intelligent controls.
光学控制器可以选装，以便于光学控制和其他智能控制。

All projects are different and require specific light levels and distributions. We can provide special and specific optics on our led engine to meet your project needs.
所有项目都各不相同，需要特定的光照水平和分布。我们可以在LED光源上提供特殊且特定的光学系统，以满足您的项目需求。

Destination / 场景	Distribution / 配光	Applications / 应用
	 DE-LED-H1 (4000°K)-α=0° ULOR=0°% — 0.0-180.0 — 90.0-270.0	Asymetric Light distribution for roadways with wide distance beet ween two poles. 在两灯杆间距较宽的道路上的非对称配光设计。 Note: This optic is not dedicated to this application only. It can also be used for other configurations. 注意：此光学配置并非只适用于此场景，也可用于其他场景配置。
	 DE-LED-R1 (4000°K)-α=0° ULOR=0°% — 0.0-180.0 — 90.0-270.0	Roadway light distribution for wide streets. 宽阔街道的道路灯光分布。 Note: This optic is not dedicated to this application only. It can also be used for other configurations. 注意：此光学配置并非只适用于此场景，也可用于其他场景配置。
	 DE-LED-R2 (4000°K)-α=0° ULOR=0°% — 0.0-180.0 — 90.0-270.0	The lamps are installed in the asymmetric lighting of low height residential areas. 安装在低矮住宅区的非对称配光。 Note: This optic is not dedicated to this application only. It can also be used for other configurations. 注意：此光学配置并非只适用于此场景，也可用于其他场景配置。
	 DE-LED-S1 (4000°K)-α=0° ULOR=0°% — 0.0-180.0 — 90.0-270.0	Lighting of bicycle lanes or narrow roads. Circulation track and narrow road. 适用于自行车道、窄路及园区循环步道照明的配光分布。 Note: This optic is not dedicated to this application only. It can also be used for other configurations. 注意：此光学配置并非只适用于此场景，也可用于其他场景配置。
	 DE-LED-P1 (4000°K)-α=0° ULOR=0°% — 0.0-180.0 — 90.0-270.0	Symmetric light distribution. 对称光分布。 Note: This optic is not dedicated to this application only. It can also be used for other configurations. 注意：此光学配置并非只适用于此场景，也可用于其他场景配置。
	 DE-LED-C1 (4000°K)-α=0° ULOR=0°% — 0.0-180.0 — 90.0-270.0	Symmetric light distribution for catenary luminaire. 悬链灯具的对称配光。 Note: This optic is not dedicated to this application only. It can also be used for other configurations. 注意：此光学配置并非只适用于此场景，也可用于其他场景配置。
	 DE-LED-A2 (4000°K)-α=0° ULOR=0°% — 0.0-180.0 — 90.0-270.0	Wide asymmetric light distribution. 宽幅非对称光分布。 Note: This optic is not dedicated to this application only. It can also be used for other configurations. 注意：此光学配置并非只适用于此场景，也可用于其他场景配置。

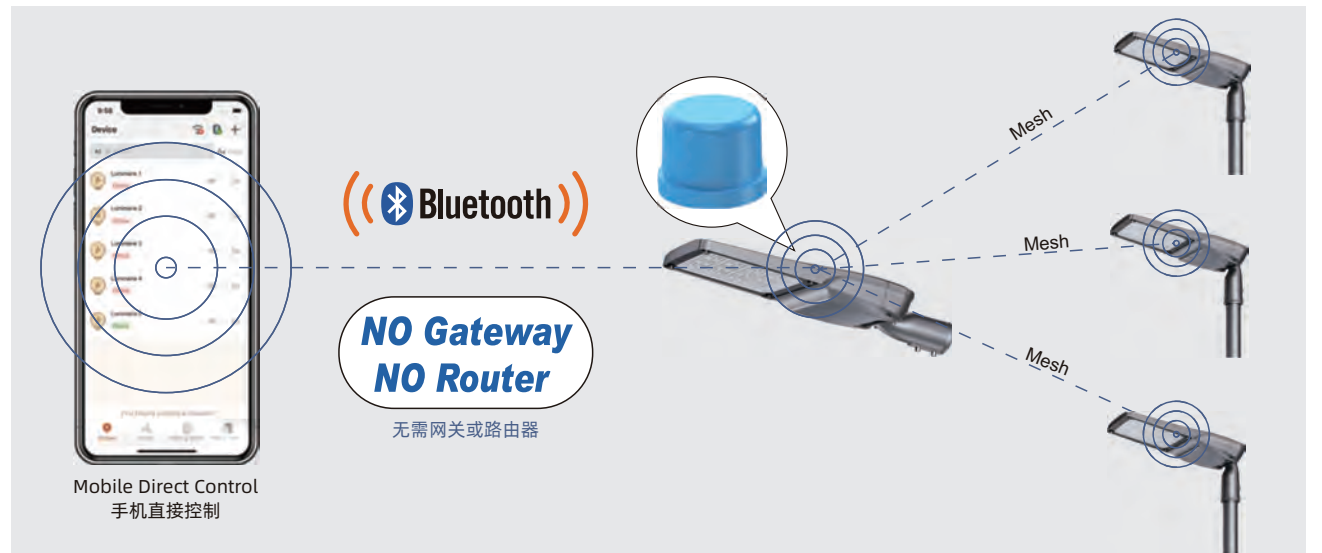
SMART CONTROL SYSTEM / 智能控制系统

The Bluetooth intelligent control system has two kinds of networkset-up methods, one is mobile phone directly connect or communicate with the the control modes; and another method is connect the gateway by mobile/PC. Features of mobile phone direct control, no need the gateway. Mobile phone connects to the modes by bluetooth signal, it's easy to operate, fast, safe and flexible.

Gateway integrated into the control extra central controller required can save total barget, gateways connect each others by mesh network, if one of the gateways fails, the system automatically switches the alternative gateway to ensure the normal operation of the system. Account management features a multi-level permission management, multiple areas with different gateway configurations, and secure access control and configuration capabilities.

蓝牙智能控制系统有两种网络设置方式，一种是手机直接控制；另一种方法是通过手机/PC连接网关，手机直控的特点，无需网关。手机通过蓝牙信号直连，操作简单，响应快速，安全灵活。

网关集成在控制中，需要额外的中央控制器，可以节省总费用，网关通过网状网络相互连接，如果其中一个网关发生故障，系统会自动切换备用网关，以确保系统的正常运行。账号管理具有多级权限管理、多个区域不同网关配置、安全访问控制和配置能力。

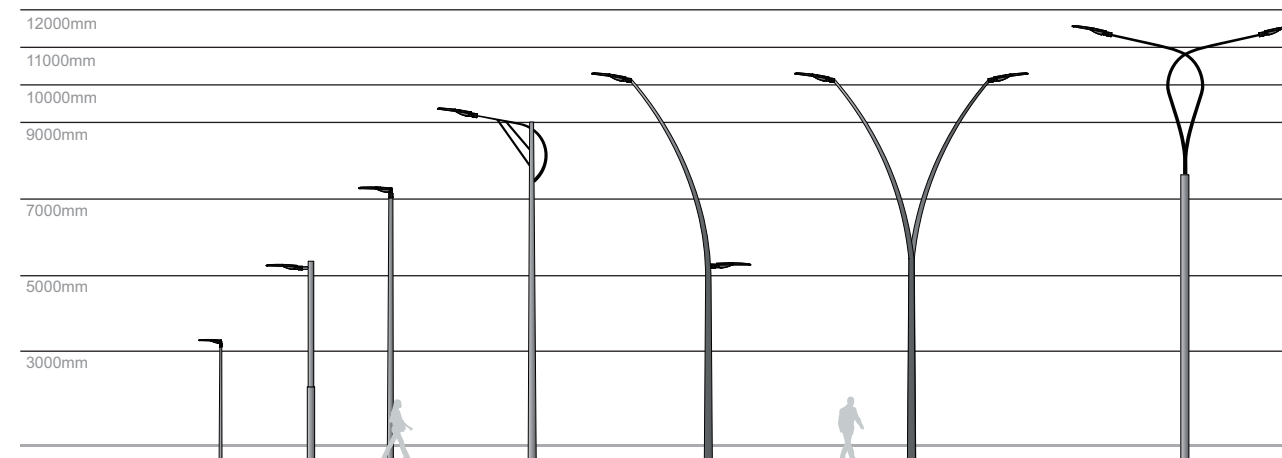


ZHAGA standard extension receptacle and cap
ZHAGA标准扩展插座和盖子



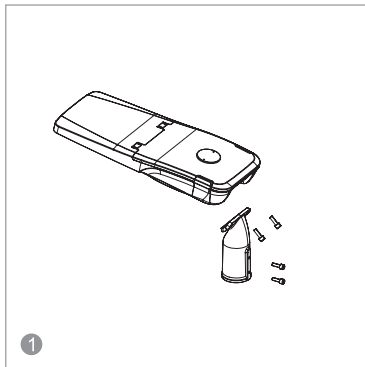
NEMA standard receptacle and cap
NEMA标准插座和插头

Efficient
and
Convenient
高效 便捷



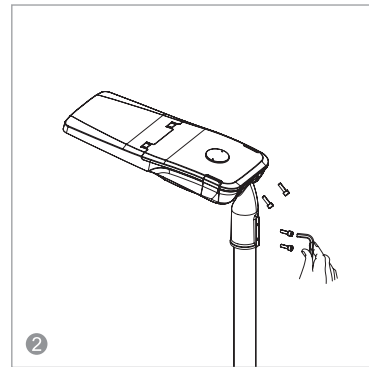
INSTALLATION INSTRUCTIONS/ 安装说明

Steps for Vertical Installation / 垂直安装步骤



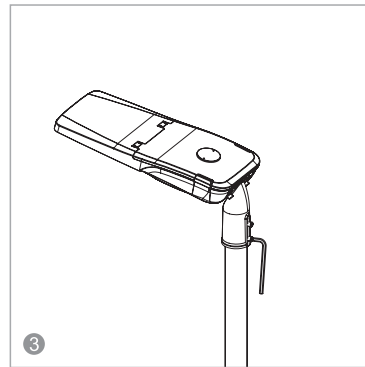
把套筒固定孔对准螺丝孔放好，用六角扳手把内六角螺栓、平垫固定好套筒。

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



把灯具对准灯杆套入，用六角扳手和内六角螺栓固定好。

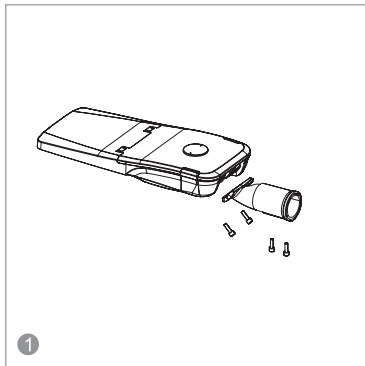
Align the lamp with the lamp pole and insert it, and fix it with hexagon wrench and hexagon socket bolt.



灯具安装完毕后的效果。

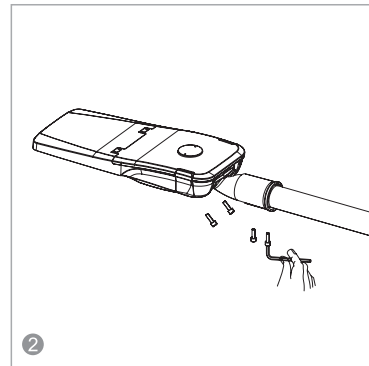
The effect of lamps after installation.

Steps for Horizontal Installation / 水平安装步骤



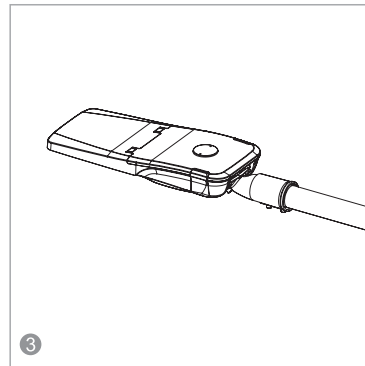
把套筒固定孔对准螺丝孔放好，用六角扳手把内六角螺栓、平垫固定好套筒。

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



把灯具对准灯杆套入，用六角扳手和内六角螺栓固定好。

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



灯具安装完毕后的效果。

The effect of lamps after installation.

Matters needing attention / 注意事项：

- 1、此型号灯具工作电压根据产品规格书及参照产品标签；
The working voltage of this type of lamp shall be in accordance with the product specification and the product label;
- 2、所有布线均需符合国家安装规范标准，对所有接头做好连接并进行防水处理；
All wiring shall comply with the national installation specifications and standards, and all joints shall be connected and waterproof;
- 3、灯具维修或更换须由具备相应资质的专业人员操作，避免发生危险；
Lamp maintenance or replacement requires qualified personnel to replace to avoid danger;
- 4、控制器的调试须严格按照指导书进行。
The controller modulation shall be operated according to the instructions.



