LET GREEN LIGHTING ILLUMINATE THE WORLD

Version No：26.3

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Inbrit®

PRODUCT CATALOG

OUTDOOR LIGHTING SOLUTIONS

Jiangsu Inbrit Outdoor Solar Lighting Co., Ltd.

Inbrit®

COMPANY PROFILE

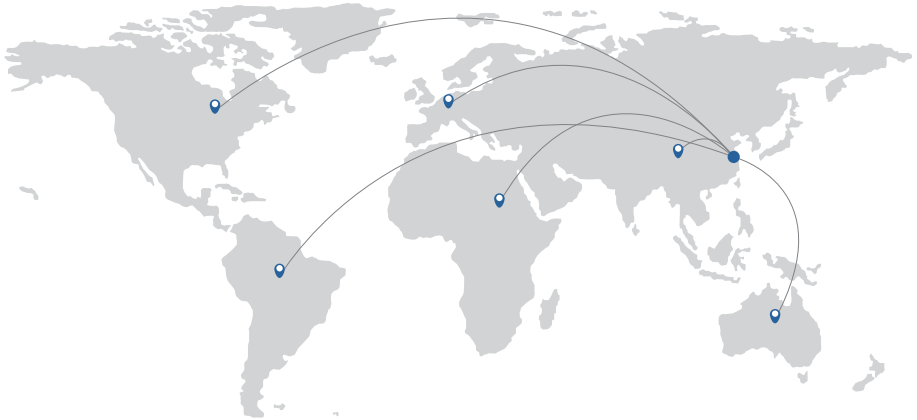
Inbrit is a professional manufacturer of outdoor lighting products, specializing in **solar street lights, LED street lights, lighting poles, high mast lights.**

Inbrit focus on understanding our customers' needs and providing practical solutions for different applications. Our team works closely with clients to deliver reliable and efficient lighting systems.
Our product philosophy is to develop cost-effective products while maintaining stable quality and performance. We are committed to providing dependable and sustainable outdoor lighting solutions.

Our factory is certified to **ISO 9001 and ISO 14001**, and our products comply with **CE, IEC, RoHS, and SASO** standards.

ONE-STOP LED OUTDOOR LIGHTING MANUFACTURER

GLOBAL BUSINESS NETWORK



With years of industry experience and a growing global presence, we provide reliable outdoor lighting solutions and professional support to clients worldwide.
Our products have been exported to more than 60 countries and regions worldwide.

45000m²
Manufacturing Area

60+
Employees

15
Technical Engineers

FACTORY ENVIRONMENT

SOLAR STREET LIGHT WORKSHOP

LIGHT POLE WORKSHOP

EXHIBITION HALL / LABORATORY

QUALIFICATIONS

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All-in-One Solar Street Light

Integrated solar street lights are all-in-one lighting systems that combine a solar panel, lithium battery, LED light source, and intelligent controller into a single unit mounted on the lamp head or pole.
They generate and store solar energy during the day and automatically provide lighting at night without the need for grid power, making them a widely used solution for outdoor lighting.

Core Functions

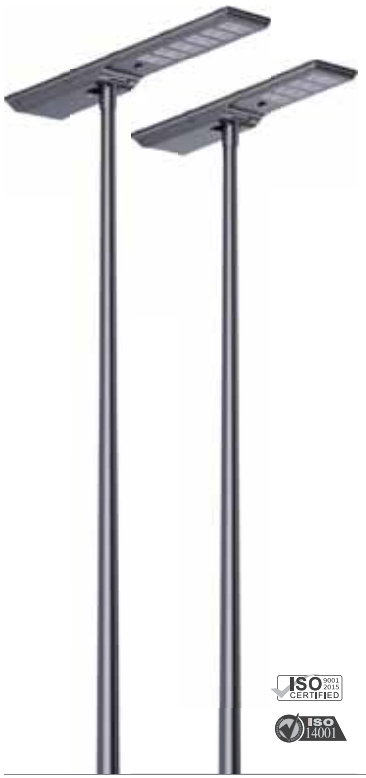
- Photovoltaic Power Generation & Energy Storage
  High-efficiency monocrystalline or polycrystalline solar panels convert sunlight into electricity during the day. Built-in $LiFePO_4$ lithium batteries store the energy and ensure stable operation even during cloudy or rainy days.

- Light Sensor & Timer Control
  Integrated photosensors automatically switch the light on at dusk and off at dawn. Timer settings allow flexible adjustment of lighting duration and brightness according to different application scenarios.

- Motion or Microwave Sensor (Optional)
  When no movement is detected, the lamp operates at low brightness to save energy. Once pedestrians or vehicles are detected, the light instantly switches to full brightness, improving energy efficiency and extending operating time.

- Remote Smart Management (Optional)
  Supports remote monitoring and control through 4G, 5G, or LoRa networks, enabling brightness adjustment, power status monitoring, and fault alerts for more efficient maintenance and management.

- Safety Protection
  Designed for outdoor environments with IP65/IP66 protection against water and dust. The system includes lightning protection, overcharge and over-discharge protection, and reverse polarity protection. Optional anti-theft structures and low-voltage systems further enhance safety.



OWL 30W-100W

The OWL lighting fixture features a classic outdoor design inspired by traditional aesthetics, combined with modern LED lighting technology. The lamp housing is made of die-cast aluminum, providing excellent corrosion resistance and durability for outdoor environments. Equipped with high-efficiency SMD5050 LED chips and a high-quality constant current driver, the luminaire delivers reliable performance and long service life.

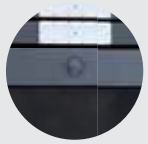
PRODUCT PARAMETERS

Model No.	OWL-001	OWL-002	OWL-003	OWL-004
Specifications	Module 2	Module 3	Module 4	Module 6
Rated Power	30W-40W	40W-60W	60W-80W	80W-100W
Solar Panel	80W	100W	120W	140W
LiFePO4 Battery	12.8V/24AH	12.8V/36AH	12.8V/42AH	12.8V/60AH
Light Source	5050			
Controller	MPPT IOT, AC/DC Hybrid solution, PwM optional			
Light Distribution	Bat-Wing light distribution (150°*75°)			
Light Efficiency	160LM/W			
Color Temperature	3000-6500K			
CRI	≥Ra70			
IP Rating	IP66			
Working Temperature	-35℃ -+50℃			
LED Lifespan	＞50000H			
Mount Diameter	Φ76MM			
Lamp Dimension	460*863*226MM (Includes sleeve)	460*1076*230MM (Includes sleeve)	460*1288*230MM (Includes sleeve)	460*1500*230MM (Includes sleeve)
Suggested Mount Height	4-6M	4-8M	6-8M	8-10M
Warranty	3 Years			

STRUCTURE PRESENTATION

BRETT ≤30W/≤80W

High-efficiency monocrystalline silicon solar panel for reliable energy conversion. High-brightness LED panel delivering uniform and glare-free illumination. Integrated design for fast and simple installation without additional wiring. Rugged metal housing designed for long-term outdoor durability.



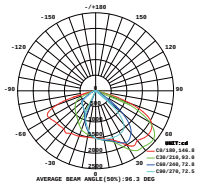
Motion sensor available as an optional accessory.

PRODUCT PARAMETERS

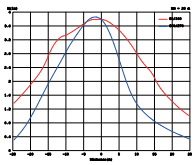
Model No.	BRETT-001	BRETT-002	BRETT-003	BRETT-004	BRETT-005	BRETT-006
System Voltage	DC3.2V	DC12.8V		DC25.6V		
Specifications	Module 2	Module 2	Module 3	Module 4	Module 8	Module 10
Rated Power	≤30W			≤80W		
Solar Panel	75W/6V	115W/18V	140W/18V	190W/36V	230W/36V	270W/36V
LiFePO4 Battery	60AH/3.2V	48AH12.8V	60AH12.8V	36AH/25.6V	48AH/25.6V	60AH/25.6V
Light Source	3030					
Controller	20A30W	8A30W		10A80W		
Light Distribution	Bat-Wing light distribution (150°*75°)					
Light Efficiency	150-170LM/W				160~180LM/W	
Color Temperature	3000-6000K					
CRI	≥Ra70					
IP Rating	IP65					
Working Temperature	-10℃ -+60℃					
LED Lifespan	50000H-100000H					
Mount Diameter	Φ60MM	Φ76MM		Φ76mm+Support pole	Φ89mm+Support pole	Φ89mm+Support pole
Lamp Dimension	455*1110*90MM (Without sleeve)	635*1110*90MM (Without sleeve)	635*1310*90MM (Without sleeve)	635*1710*90MM (Without sleeve)	825*1575*90MM (Without sleeve)	825*1865*90MM (Without sleeve)
Lamp Weight	15.02KG	19.43KG	22.72KG	29.83KG	37.96KG	40.96KG
Total Case Weight	17.08KG	21.93KG	25.22KG	32.6KG	44.71KG	48.21KG
Package Dimension	1185*620*150MM	1185*800*150MM	1385*800*150MM	1785*800*150MM	1650*990*150MM	1940*990*150MM
Suggested Mount Height	4-6M	4-8M		8-12M		
Warranty	3 Years					

30W Parameter

INTENSITY DISTRIBUTION DIAGRAM IN C PLANS

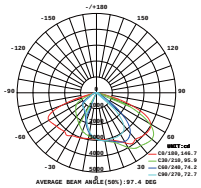


PLANAR ILLUMINANCE CURVE



60W Parameter

INTENSITY DISTRIBUTION DIAGRAM IN C PLANS



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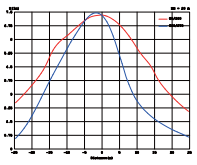
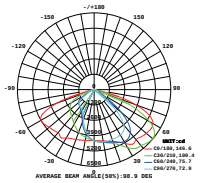
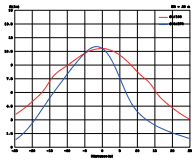


90W Parameter

INTENSITY DISTRIBUTION DIAGRAM IN C PLANS

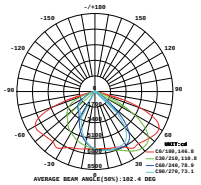


PLANAR ILLUMINANCE CURVE

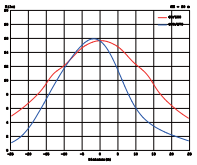


120W Parameter

INTENSITY DISTRIBUTION DIAGRAM IN C PLANS



PLANAR ILLUMINANCE CURVE



LYRA ≤20W/30W/40W

Self-cleaning solar panel system with timed automatic dust removal helps maintain high charging efficiency and reduce maintenance. High-lumen LEDs ensure reliable illumination, while the optional microwave sensor increases brightness when motion is detected and dims when the area is unoccupied.

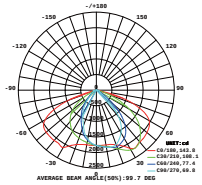
PRODUCT PARAMETERS

Model No.	LYRA-001A	LYRA-002A	LYRA-003A	LYRA-004A	LYRA-001B	LYRA-002B	LYRA-003B	LYRA-004B
System Voltage	DC3.2V				DC12.8V			
Specifications	Module 3	Module 4	Module 5	Module 6	Module 3	Module 4	Module 5	Module 6
Rated Power	≤20W		≤30W		≤30W		≤40W	
Solar Panel	40W/5V	60W/5V	80W/5V	105W/5V	45W/18V	60W/18V	80W/18V	105W/18V
LiFePO4 Battery	36AH/3.2V	48AH/3.2V	60AH/3.2V	72AH/3.2V	24AH12.8V	24AH12.8V	36AH12.8V	48AH12.8V
Light Source	5054							
Controller	15A20W		20A30W		6A30W		8A40W	
Light Distribution	Bat-Wing light distribution (150°×75°)							
Light Efficiency	140-160LM/W							
Color Temperature	3000-6000K							
CRI	≥Ra70							
IP Rating	IP65							
Working Temperature	-10℃ -+60℃							
LED Lifespan	50000H-100000H							
Mount Diameter	Φ60MM							
Lamp Dimension	995×452×225MM (Cone-type dust collector)	1235×452×225MM (Cone-type dust collector)	1542×452×225MM (Cone-type dust collector)	1862×452×225MM (Cone-type dust collector)	995×452×225MM	1235×452×225MM	1542×452×225MM	1862×452×225MM
Lamp Weight	14.07KG	15.79KG	18.25KG	20.39KG	15.57KG	17.75KG	20.75KG	23.1KG
Total Case Weight	15.23KG	16.69KG	19.67KG	22.78KG	16.75KG	18.7KG	21.17KG	25.48KG
Package Dimension	1060×475×245MM	1300×475×245MM	1610×475×245MM	1930×475×245MM	1060×475×245MM	1300×475×245MM	1610×475×245MM	1930×475×245MM
Suggested Mount Height	4-6M			6-8M	4-8M			
Warranty	3 Years							

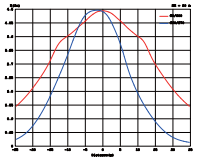
Equipped with an intelligent self-cleaning system that periodically removes dust from the solar panel surface, maintaining high light absorption efficiency and stable power generation over long-term outdoor use.

30W Parameter

INTENSITY DISTRIBUTION DIAGRAM IN C PLANS

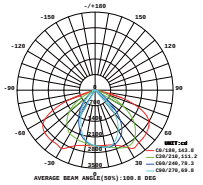


PLANAR ILLUMINANCE CURVE

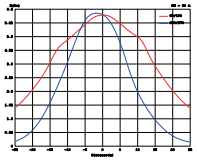


40W Parameter

INTENSITY DISTRIBUTION DIAGRAM IN C PLANS



PLANAR ILLUMINANCE CURVE



LATTE ≤30W/40W

Features high-efficiency solar panels for effective energy conversion. Multiple LED chips provide bright, uniform illumination with wide coverage. Smart light sensing automatically turns the lamp on or off and adjusts brightness according to ambient light conditions for improved energy efficiency.

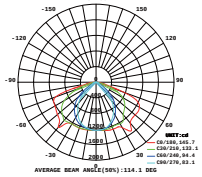
Light Grey/Dark Grey/Black

PRODUCT PARAMETERS

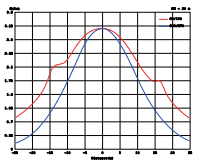
Model No.	LATTE-001	LATTE-002	LATTE-003	LATTE-004	LATTE-005	LATTE-006
System Voltage	DC3.2V			DC12.8V		
Specifications	Module 2	Module 3	Module 4	Module 2	Module 3	Module 4
Rated Power	≤30W			≤30W		≤40W
Solar Panel	70W/5V	95W/6V	115W/6V	75W/18V	95W/18V	120W/18V
LiFePO4 Battery	50AH/3.2V	80AH/3.2V	96AH/3.2V	24AH12.8V	36AH12.8V	48AH12.8V
Light Source	3030					
Controller	20A30W			6A30W		8A40W
Light Distribution	Bat-Wing light distribution (150°*75°)					
Light Efficiency	150-170LM/W					
Color Temperature	3000-6000K					
CRI	≥Ra70					
IP Rating	IP65					
Working Temperature	-10℃ -+60℃					
LED Lifespan	50000H-100000H					
Mount Diameter	Φ76MM					
Lamp Dimension (Includes sleeve)	1080*445*125MM	1390*445*125MM	1680*445*125MM	1080*445*125MM	1390*445*125MM	1680*445*125MM
Lamp Weight	10.65KG	13.55KG	15.26KG	11.42KG	14.45KG	17.13KG
Total Case Weight	12.65KG	16.05KG	17.82KG	13.45KG	16.95KG	19.83KG
Package Dimension	1290*490*170MM	1600*490*170MM	1900*490*170MM	1290*490*170MM	1600*490*170MM	1900*490*170MM
Suggested Mount Height	4-6M			4-8M		
Warranty	3 Years					

20W Parameter

INTENSITY DISTRIBUTION DIAGRAM IN C PLANS

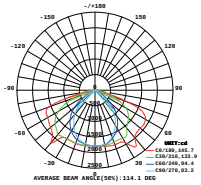


PLANAR ILLUMINANCE CURVE



30W Parameter

INTENSITY DISTRIBUTION DIAGRAM IN C PLANS



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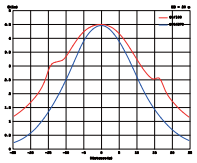
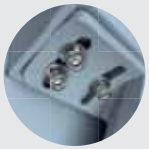


Smart energy-saving technology detects motion and reduces power consumption to extend battery life.



An adjustable-angle mounting sleeve allows flexible pole installation for better adaptation to different sites and lighting requirements.

LYNX ≤30W/40W

Adjustable angles enhance flexibility to achieve optimal lighting performance.
Advanced solar controllers improve energy efficiency and system stability.
Suitable for diverse outdoor environments with easy installation and low maintenance, meeting road lighting needs across various scenarios.

1: The LED module features adjustable angles to meet optimal lighting requirements.

2: Adjust the tightness with a wrench

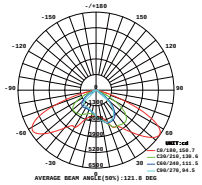
3: Adjustable up to 30° in either direction

PRODUCT PARAMETERS

Model No.	LYNX-001A	LYNX-002A	LYNX-003A	LYNX-001B	LYNX-002B	LYNX-003B
System Voltage	DC3.2V			DC12.8V		
Specifications	Module 2	Module 3	Module 4	Module 2	Module 3	Module 4
Rated Power	≤30W			≤40W		
Solar Panel	85W/5V	105W/5V	115W/5V	80W/18V	100W/18V	130W/18V
LiFePO4 Battery	60AH/3.2V	72AH/3.2V	84AH/3.2V	36AH12.8V	40AH12.8V	48AH12.8V
Light Source	5054					
Controller	20A30W			8A40W		
Light Distribution	Bat-Wing light distribution (150°*75°)					
Light Efficiency	150-170LM/W					
Color Temperature	3000-6000K					
CRI	≥Ra70					
IP Rating	IP65					
Working Temperature	-10℃ -+60℃					
LED Lifespan	50000H-100000H					
Mount Diameter	Φ76MM					
Lamp Dimension (Includes sleeve)	1255*429*190MM	1526*429*190MM	1806*429*190MM	1255*429*190MM	1526*429*190MM	1806*429*190MM
Lamp Weight	12.63KG	15.11KG	16.68KG	14.3KG	17.79KG	18.85KG
Total Case Weight	14.65KG	17.65KG	19.39KG	16.33KG	20.34KG	21.62KG
Package Dimension	1320*480*230MM	1590*480*230MM	1870*480*230MM	1320*480*230MM	1590*480*230MM	1870*480*230MM
Suggested Mount Height	4-6M	6-8M		4-8M		
Warranty	3 Years					

60W Parameter

INTENSITY DISTRIBUTION DIAGRAM IN C PLANS



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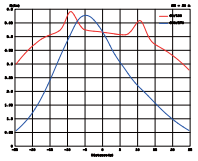
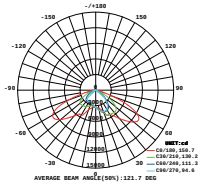


100W Parameter

INTENSITY DISTRIBUTION DIAGRAM IN C PLANS



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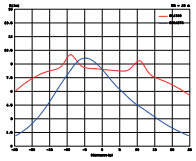


LEGEND ≤30W/40W

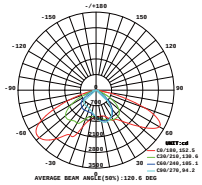
Advanced solar technology with high-efficiency LEDs provides reliable illumination and long battery life. A high-sensitivity motion sensor automatically increases brightness when movement is detected and dims when the area is unoccupied to save energy.

PRODUCT PARAMETERS

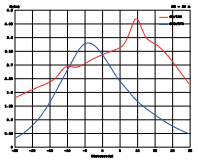
Model No.	LEGEND-001A	LEGEND-002A	LEGEND-003A	LEGEND-001B	LEGEND-002B	LEGEND-003B
System Voltage	DC3.2V			DC12.8V		
Specifications	Module 4	Module 5	Module 6	Module 4	Module 5	Module 6
Rated Power	≤30W(Customized)			≤40W(Customized)		
Solar Panel	75W/6V	105W/6V	115W/6V	80W/18V	105W/18V	120W/18V
LiFePO4 Battery	60AH/3.2V	72AH/3.2V	84AH/3.2V	36AH12.8V	40AH12.8V	48AH12.8V
Light Source	5050					
Controller	20A30W			8A40W		
Light Distribution	Bat-Wing light distribution (150°*75°)					
Light Efficiency	150-170LM/W					
Color Temperature	3000-6000K					
CRI	≥Ra70					
IP Rating	IP65					
Working Temperature	-10℃ -+60℃					
LED Lifespan	50000H-100000H					
Mount Diameter	Φ76MM					
Lamp Dimension	1225*445*125MM	1525*445*125MM	1710*445*125MM	1225*445*125MM	1525*445*125MM	1710*445*125MM
Lamp Weight	13.33KG	15.34KG	16.56KG	14.99KG	18.02KG	18.72KG
Total Case Weight	15.43KG	17.94KG	19.27KG	17.09KG	20.62KG	21.43KG
Package Dimension	1410*490*170MM	1730*490*170MM	1930*490*170MM	1410*490*170MM	1730*490*170MM	1930*490*170MM
Suggested Mount Height	4-6M	6-8M		4-8M		
Warranty	3 Years					

30W Parameter

INTENSITY DISTRIBUTION DIAGRAM IN C PLANS

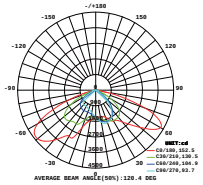


PLANAR ILLUMINANCE CURVE

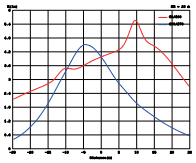


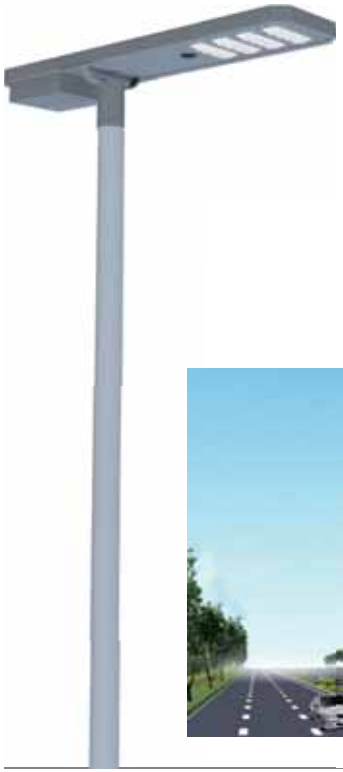
40W Parameter

INTENSITY DISTRIBUTION DIAGRAM IN C PLANS



PLANAR ILLUMINANCE CURVE





GROOT ≤30W

High-efficiency monocrystalline solar panel for fast charging and long service life.
High-quality LED light with moisture-proof and waterproof design, providing wide lighting coverage.

PRODUCT PARAMETERS

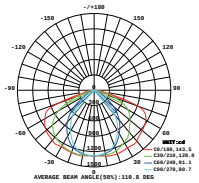
Model No.	GROOT-001	GROOT-002
Rated Power	≤30W	
System Voltage	DC12.8V	
LiFePO4 Battery	24AH	40AH
Solar Panel	80W	100W
Light Source	3030	
Light Distribution	Bat-Wing light distribution (150°*75°)	
Light Efficiency	110-150LM/W	
Color Temperature	3000K-6000K	
CRI	≥Ra70	
IP Rating	IP65	
Working Temperature	-10℃ -+60℃	
LED Lifespan	50000H-100000H	
Controller	6A30W	
Lamp Pipe Diameter	Φ60MM	
Lamp Dimension	1122*387*68MM	1352*387*68MM
Lamp Weight	11.6KG	14.5KG
Package Dimension (Sleeve not included)	1335*465*145MM	1625*465*145MM
Suggested Mount Height	4-6M	6-8M
Warranty	3 Years	

Sleeve

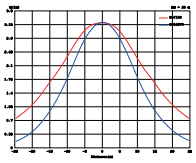
Optional microwave sensor

20W Parameter

INTENSITY DISTRIBUTION DIAGRAM IN C PLANS

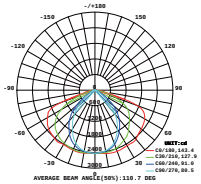


PLANAR ILLUMINANCE CURVE

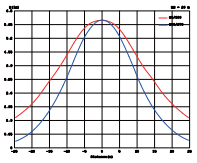


40W Parameter

INTENSITY DISTRIBUTION DIAGRAM IN C PLANS



PLANAR ILLUMINANCE CURVE



VOYAGER ≤20W

High conversion efficiency, low power consumption, and longer battery life.
Stable and uniform brightness for enhanced visual comfort.
Modular design for flexible operation and easy maintenance.

PRODUCT PARAMETERS

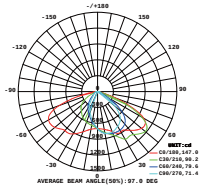
Model No.	VOYAGER I	VOYAGER II
Specifications	DC3.2V	
Rated Power	≤20W(Customized)	
Solar Panel	60W/6V	75W/6V
Battery	50AH/3.2V	80AH/3.2V
Light Source	5054	
Controller	15A20W	
Light Distribution	Bat-Wing light distribution (150°*75°)	
Light Efficiency	140-160LM/W	
Color Temperature	3000-6000K	
CRI	≥Ra70	
IP Rating	IP65	
Working Temperature	-10℃ -+60℃	
LED Lifespan	50000H-100000H	
Mount Diameter	Φ60MM	
Lamp Dimension	910*400*175MM	1168*400*175MM
Lamp Weight	9.75KG	12.55KG
Total Case Weight	11.15KG	14.05KG
Package Dimension	1060*475*245MM	1345*475*245MM
Suggested Mount Height	4-6M	
Warranty	3 Years	

Two types of LED modules

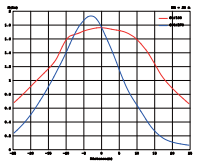
Optional microwave sensor

20W Parameter

INTENSITY DISTRIBUTION DIAGRAM IN C PLANS

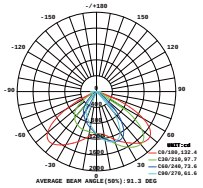


PLANAR ILLUMINANCE CURVE

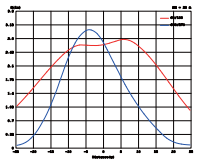


20W Parameter

INTENSITY DISTRIBUTION DIAGRAM IN C PLANS



PLANAR ILLUMINANCE CURVE



ARES ≤20W

Lens with a special design that is highly brilliant and light transmitting.
Mono. panels exhibit exceptional stability and efficiency in photoelectric conversion.
Long-lasting lithium iron phosphate battery with extended power.
Heat-resistant, daylight-sensing, human body-sensing, and other intelligent sensors.
Multi-angle installation that works well at various latitudes with direct sunlight angles.

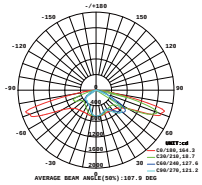
PRODUCT PARAMETERS

Model No.	ARES-001	ARES-002	ARES-003
Rated Power	≤20W		
System Voltage	DC3.2V	DC3.2V	DC3.2V
LiFePO4 Battery	40AH	40AH	50AH
Solar Panel	Mono. 45W	Mono. 60W	Mono. 70W
Light Source	3030		
Light Distribution	Bat-Wing light distribution (150°*75°)		
Light Efficiency	130-160LM/W		
Color Temperature	3000K-6000K		
CRI	≥Ra70		
IP Rating	IP65		
Working Temperature	-10℃ -+60℃		
LED Lifespan	50000H-100000H		
Controller	15A		
Lamp Pipe Diameter	Φ76MM		
Lamp Dimension	697*361*209MM	846*361*209MM	1096*361*209MM
Lamp Weight	6.5KG	8.2KG	9.2KG
Package Dimension (Sleeve not included)	775*435*165MM	925*432*165MM	1175*435*165MM
Suggested Mount Height	3-6M	3-6M	5-6M
Warranty	3 Years		

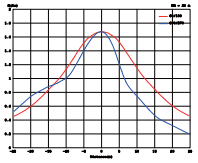
Adjustable installation angle

20W Parameter

INTENSITY DISTRIBUTION DIAGRAM IN C PLANS

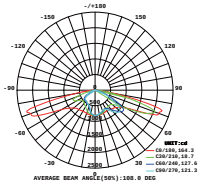


PLANAR ILLUMINANCE CURVE



25W Parameter

INTENSITY DISTRIBUTION DIAGRAM IN C PLANS



PLANAR ILLUMINANCE CURVE

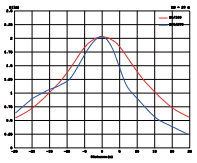
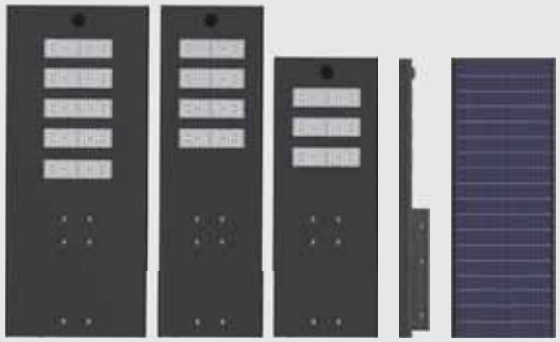


PLATE ≤30W/60W

No additional wiring is required, cost saving. Multi-point fixation, stable and durable.
Direct light-emitting design, high light transmittance protective cover, high light transmittance.
Human body sensor+light control output.
High-quality chips, high light efficiency, low light attenuation, and high energy-saving efficiency.
Designed with a high thermal conductivity aluminum substrate, the entire lamp has good heat dissipation and longer lifespan.



black/gray/white

PRODUCT PARAMETERS

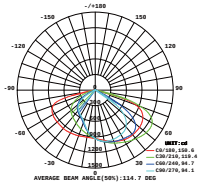
Model No.	PLATE-001	PLATE-002	PLATE-003
Rated Power	≤30W	≤30W	≤60W
System Voltage	DC12.8V		
LiFePO4 Battery	24AH	40AH	50AH
Solar Panel	18V80W	18V100W	18V145W
Light Source	COB or LED Module		
Light Distribution	Bat-Wing light distribution (150°*75°)		
Light Efficiency	110-150LM/W		
Color Temperature	3000K-6000K		
CRI	≥Ra70		
IP Rating	IP65		
Working Temperature	-10℃ -+60℃		
LED Lifespan	50000H-100000H		
Controller	6A30W	6A30W	10A60W
Lamp Pipe Diameter	Straight Sleeve Φ60MM/Tapered sleeve Φ75MM/clamp Φ90MM		
Lamp Dimension	1210*368*68MM	1352*387*68MM	1480*550*68MM
Suggested Mount Height	4-6M	6-8M	8M
Motion Sensor	Yes		
Lamp Weight	12.3KG	15.1KG	18.7KG
Package Dimension (Sleeve not included)	1295*455*125MM	1425*455*125MM	1560*625*125MM
Warranty	3 Years		

Three Installation Methods

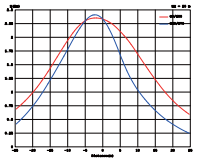
Suitable sleeve types can be selected according to the pole diameter, local climate (e.g. wind resistance level) and installation method. With multi-specification and high-compatibility sleeve design, the installation efficiency and applicability of the solar street light is significantly improved, while reducing the whole life cycle maintenance cost. Compatible with poles of different diameters, no need to customize or modify poles, reducing procurement and installation costs.

20W Parameter

INTENSITY DISTRIBUTION DIAGRAM IN C PLANS

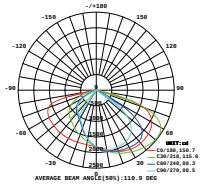


PLANAR ILLUMINANCE CURVE

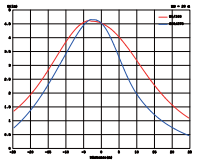


40W Parameter

INTENSITY DISTRIBUTION DIAGRAM IN C PLANS

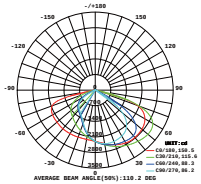


PLANAR ILLUMINANCE CURVE

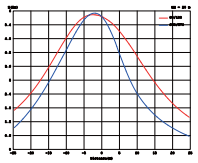


50W Parameter

INTENSITY DISTRIBUTION DIAGRAM IN C PLANS

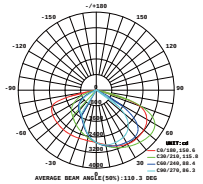


PLANAR ILLUMINANCE CURVE

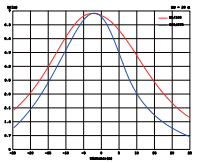


60W Parameter

INTENSITY DISTRIBUTION DIAGRAM IN C PLANS



PLANAR ILLUMINANCE CURVE



STRUCTURE PRESENTATION

Mono Solar Panel

Stable material performance
Slow efficiency decay over long-term use
Excellent high-temperature performance
Robust structure

Optional Microwave Sensor

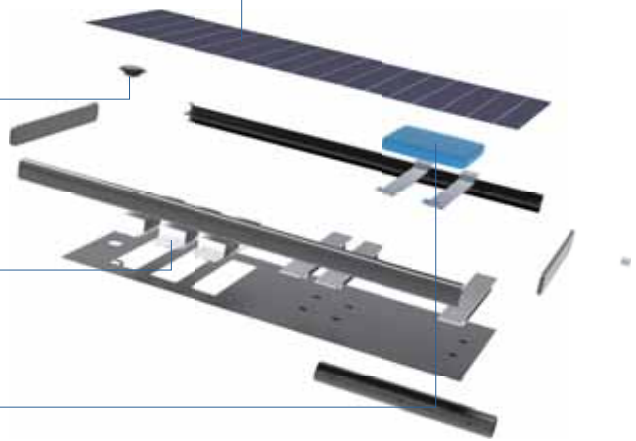
Highly sensitive to moving objects
Wide detection range
Strong anti-interference capabilities
Minimal wear and tear
Long lifespan and low maintenance

High-Efficiency LED Module

Available with 3–6 modules
Low heat generation during operation
Effectively extends module lifespan

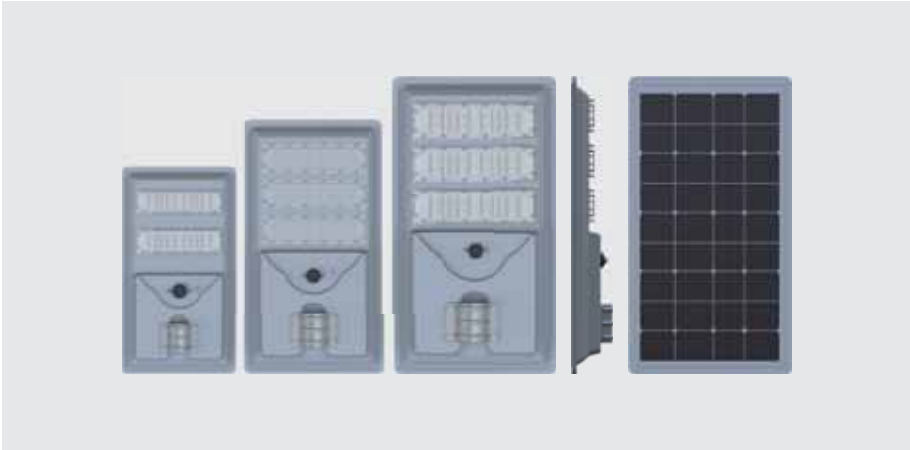
Safe Lithium Battery

Large battery compartment with customizable capacity
Extended lighting duration
Removable design for easy maintenance and upgrades



GUARDIAN 5W/8W/12W

High-efficiency monocrystalline solar panels,
Stable 3.2V system,
Well-designed parameters to meet the lighting needs of most scenarios,
Integrated design with optional sensor devices to control costs effectively.



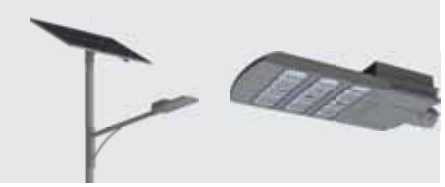
PRODUCT PARAMETERS

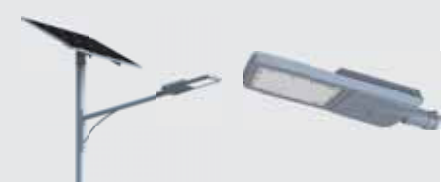
Model No.	GUARDIAN-001	GUARDIAN-002	GUARDIAN-003
Rated Power	5W	8W	12W
System Voltage	DC3.2V		
LiFePO4 Battery	12AH	24AH	36AH
Solar Panel	Mono. 16W	Mono. 28W	Mono. 45W
Light Source	3030		
Light Distribution	Bat-Wing light distribution (150°*75°)		
Light Efficiency	150-160LM/W		
Color Temperature	3000K-6000K		
CRI	≥Ra70		
IP Rating	IP65		
Working Temperature	-10°C -+60°C		
LED Lifespan	50000H-100000H		
Controller	10A		
Lamp Pipe Diameter	Φ48MM		
Lamp Dimension	503*233*55MM	598*278*55MM	598*278*55MM
Lamp Weight	2.15KG	3.16KG	4.6KG
Package Dimension (Sleeve not included)	520*165*250MM (4pcs/CTN)	615*165*295MM (4pcs/CTN)	685*165*365MM (4pcs/CTN)
Suggested Mount Height	3-4M	3-4M	4-6M
Warranty	3 Years		

All-in-Two Solar Street Light

Applicable Scenarios

- Rural road lighting and village infrastructure projects
- Industrial parks, logistics parks and factory road lighting
- Parks, scenic trails and campuses where fast installation is required





The All-in-Two Solar Street Light uses a separate solar panel and an integrated lamp head. It is easy to install and suitable for new lighting projects as well as solar street light retrofits. If the original lamp stops working but the solar panel is still usable, the lamp head can be replaced directly. The battery, controller and LED are built into the lamp head. Both 3.2V and 12.8V systems are available.

Core Functions

- **LED Lighting**
  High-efficiency LED chips with power options from 30W to 120W. Color temperature can be selected from 3000K to 6500K to meet different road lighting requirements.

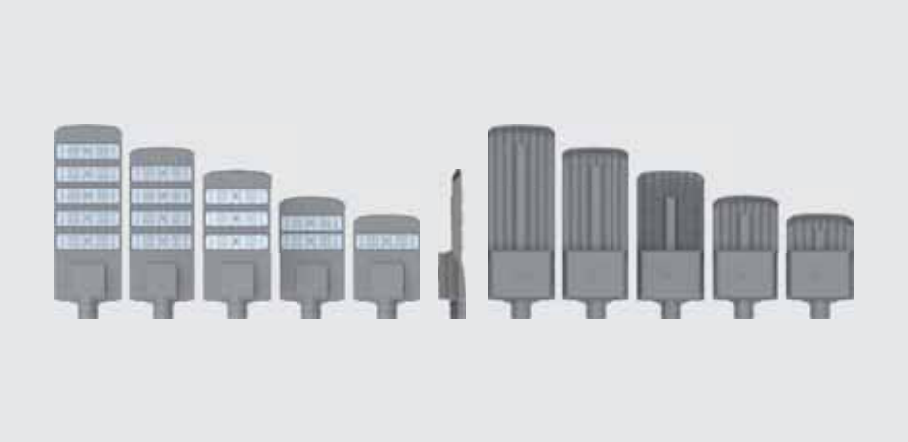
- **Energy Storage**
  Built-in LiFePO4 battery with more than 2000 charge cycles. Stable operation in temperatures from −20°C to 60°C. The battery is integrated inside the lamp head, so no external battery box is needed.

- **Smart Control**
  Equipped with an MPPT controller to improve charging efficiency. Supports light control, time control, motion sensing and dimming to reduce energy consumption.

- **Solar Charging**
  Independent solar panel installed on the top or side of the pole with a mounting bracket. Monocrystalline panels are available. The panel power is usually configured at 2–3 times the lamp power to ensure stable charging.

COSMO 10W/12W/15W/20W/27W/30W

High quality LED light beads, daylight level new brightness.
The large lamp beads with lenses have better light gathering effect, higher brightness and wider irradiation range.
Wide illumination range by irradiating from different directions.
High photoelectric conversion efficiency, can be charged even in rainy days.
Style, height, all can be customized.

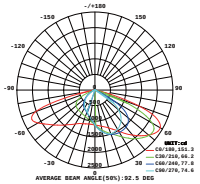


PRODUCT PARAMETERS

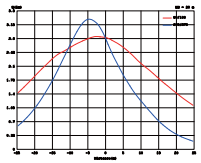
Model No.	COSMO-DC-11	COSMO-DC-12	COSMO-DC-13	COSMO-DC-14	COSMO-DC-15	COSMO-DC-16	COSMO-DC-17	COSMO-DC-18
Rated Power	12W	15W	20W	20W	27W	10W	20W	30W
System Voltage	DC3.2V					DC12.8V		
LiFePO4 Battery	40AH3.2V	50AH3.2V	60AH3.2V	72AH3.2V	84AH3.2V	12AH12.8V	24AH12.8V	36AH12.8V
Controller	15A30W					10A30W		
Light Source	3030							
Light Distribution	Bat-Wing light distribution (150°*75°)							
Light Efficiency	150-160LM/W							
Color Temperature	3000K-6000K							
CRI	≥Ra70							
IP Rating	IP65							
Working Temperature	-10℃ -+60℃							
LED Lifespan	50000H-100000H							
Mount Diameter	Φ60MM							
Lamp Dimension	420*263*75MM							
Lamp Weight	2.42KG	2.46KG	2.6KG	2.85KG	3.2KG	2.53KG	3.52KG	4.5KG
Total Case Weight	5.14KG (2pcs/CTN)	5.22KG (2pcs/CTN)	5.5KG (2pcs/CTN)	6.0KG (2pcs/CTN)	6.5KG (2pcs/CTN)	5.36KG (2pcs/CTN)	7.34KG (2pcs/CTN)	9.3KG (2pcs/CTN)
Package Dimension	440*280*115MM							
Suggested Mount Height	4-6M							6-8M
Warranty	3 Years							

30W Parameter

INTENSITY DISTRIBUTION DIAGRAM IN C PLANS

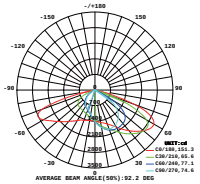


PLANAR ILLUMINANCE CURVE

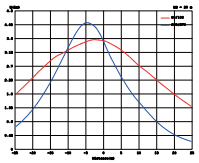


40W Parameter

INTENSITY DISTRIBUTION DIAGRAM IN C PLANS



PLANAR ILLUMINANCE CURVE



Model No.	COSMO-DC-21	COSMO-DC-22	COSMO-DC-23	COSMO-DC-24	COSMO-DC-25	COSMO-DC-26	COSMO-DC-27	COSMO-DC-28
Rated Power	12W	15W	20W	20W	27W	10W	20W	30W
System Voltage	DC3.2V					DC12.8V		
LiFePO4 Battery	40AH3.2V	50AH3.2V	60AH3.2V	72AH3.2V	84AH3.2V	12AH12.8V	24AH12.8V	36AH12.8V
Controller	15A30W					10A30W		
Light Source	3030							
Light Distribution	Bat-Wing light distribution (150°*75°)							
Light Efficiency	150-160LM/W							
Color Temperature	3000K-6000K							
CRI	≥Ra70							
IP Rating	IP65							
Working Temperature	-10℃ -+60℃							
LED Lifespan	50000H-100000H							
Mount Diameter	Φ60MM							
Lamp Dimension	507*263*75MM							
Lamp Weight	2.63KG	2.67KG	2.8KG	3.05KG	3.4KG	2.74KG	3.73KG	4.72KG
Total Case Weight	5.58KG (2pcs/CTN)	5.66KG (2pcs/CTN)	6.0KG (2pcs/CTN)	6.42KG (2pcs/CTN)	6.9KG (2pcs/CTN)	5.8KG (2pcs/CTN)	7.78KG (2pcs/CTN)	9.76KG (2pcs/CTN)
Package Dimension	525*275*115MM							
Suggested Mount Height	4-6M							6-8M
Warranty	3 Years							

Model No.	COSMO-DC-31	COSMO-DC-32	COSMO-DC-33	COSMO-DC-34	COSMO-DC-35	COSMO-DC-36	COSMO-DC-37	COSMO-DC-38
Rated Power	12W	15W	20W	20W	27W	10W	20W	30W
System Voltage	DC3.2V					DC12.8V		
LiFePO4 Battery	40AH3.2V	50AH3.2V	60AH3.2V	72AH3.2V	84AH3.2V	12AH12.8V	24AH12.8V	36AH12.8V
Controller	15A30W					10A30W		
Light Source	3030							
Light Distribution	Bat-Wing light distribution (150°*75°)							
Light Efficiency	150-160LM/W							
Color Temperature	3000K-6000K							
CRI	≥Ra70							
IP Rating	IP65							
Working Temperature	-10℃ -+60℃							
LED Lifespan	50000H-100000H							
Mount Diameter	Φ60MM							
Lamp Dimension	597*263*75MM							
Lamp Weight	3.14KG	3.18KG	3.32KG	3.57KG	3.8KG	3.15KG	4.14KG	5.13KG
Total Case Weight	6.63KG (2pcs/CTN)	6.71KG (2pcs/CTN)	6.99KG (2pcs/CTN)	7.49KG (2pcs/CTN)	7.95KG (2pcs/CTN)	6.65KG (2pcs/CTN)	8.63KG (2pcs/CTN)	10.61KG (2pcs/CTN)
Package Dimension	615*275*115MM							
Suggested Mount Height	4-6M							6-8M
Warranty	3 Years							

Model No.	COSMO-DC-41	COSMO-DC-42	COSMO-DC-43	COSMO-DC-44	COSMO-DC-45	COSMO-DC-46	COSMO-DC-47	COSMO-DC-48
Rated Power	12W	15W	20W	20W	27W	10W	20W	30W
System Voltage	DC3.2V					DC12.8V		
LiFePO4 Battery	40AH3.2V	50AH3.2V	60AH3.2V	72AH3.2V	84AH3.2V	12AH12.8V	24AH12.8V	36AH12.8V
Controller	15A30W					10A30W		
Light Source	3030							
Light Distribution	Bat-Wing light distribution (150°*75°)							
Light Efficiency	150-160LM/W							
Color Temperature	3000K-6000K							
CRI	≥Ra70							
IP Rating	IP65							
Working Temperature	-10℃ -+60℃							
LED Lifespan	50000H-100000H							
Mount Diameter	Φ60MM							
Lamp Dimension	687*263*75MM							
Lamp Weight	3.48KG	3.52KG	3.66KG	3.91KG	4.15KG	3.5KG	4.48KG	5.47KG
Total Case Weight	6.9KG (2pcs/CTN)	7.2KG (2pcs/CTN)	7.6KG (2pcs/CTN)	8KG (2pcs/CTN)	8.7KG (2pcs/CTN)	7.4KG (2pcs/CTN)	9.36KG (2pcs/CTN)	11.34KG (2pcs/CTN)
Package Dimension	705*275*115MM							
Suggested Mount Height	4-6M							6-8M
Warranty	3 Years							

Model No.	COSMO-DC-51	COSMO-DC-52	COSMO-DC-53	COSMO-DC-54	COSMO-DC-55	COSMO-DC-56	COSMO-DC-57	COSMO-DC-58
Rated Power	12W	15W	20W	20W	27W	10W	20W	30W
System Voltage	DC3.2V					DC12.8V		
LiFePO4 Battery	40AH3.2V	50AH3.2V	60AH3.2V	72AH3.2V	84AH3.2V	12AH12.8V	24AH12.8V	36AH12.8V
Controller	15A30W					10A30W		
Light Source	3030							
Light Distribution	Bat-Wing light distribution (150°*75°)							
Light Efficiency	150-160LM/W							
Color Temperature	3000K-6000K							
CRI	≥Ra70							
IP Rating	IP65							
Working Temperature	-10℃ -+60℃							
LED Lifespan	50000H-100000H							
Mount Diameter	Φ60MM							
Lamp Dimension	780*263*75MM							
Lamp Weight	3.83KG	3.88KG	4.01KG	4.26KG	4.51KG	3.85KG	4.84KG	5.82KG
Total Case Weight	8.11KG (2pcs/CTN)	8.21KG (2pcs/CTN)	8.47KG (2pcs/CTN)	8.97KG (2pcs/CTN)	9.47KG (2pcs/CTN)	8.15KG (2pcs/CTN)	10.13KG (2pcs/CTN)	12.1KG (2pcs/CTN)
Package Dimension	790*275*115MM							
Suggested Mount Height	4-6M							6-8M
Warranty	3 Years							

SOLO E Ⅲ 12W/15W/20W/27W/36W/40W

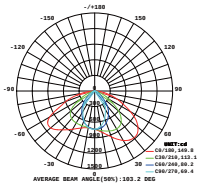
Low voltage design, safe and reliable.
Multiple wide angles, illumination from different directions, wide lighting range.
High photoelectric conversion efficiency, can be charged even in rainy days.
Contains protection circuit and anti-leakage settings, stable voltage.
Use large lens beads for better brightness.

PRODUCT PARAMETERS

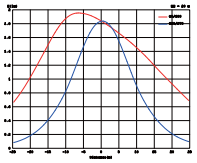
Model No.	SOLO E Ⅲ -001						SOLO E Ⅲ -002		SOLO E Ⅲ -003	
Rated Power	12W	15W	20W	20W	27W	36W	≤40W			
System Voltage	DC3.2V						DC11.1V		DC12.8V	
LiFePO4 Battery	40AH	50AH	60AH	80AH	100AH	120AH	30AH	40AH	24AH	36AH
Light Source	3030									
Light Distribution	Bat-Wing light distribution（150°*75°）									
Light Efficiency	110-160LM/W									
Color Temperature	3000K-6000K									
CRI	≥Ra70									
IP Rating	IP65									
Working Temperature	-10℃ -+60℃									
LED Lifespan	50000H-100000H									
Mount Diameter	Φ60MM									
Lamp Dimension	600*220*95MM									
Lamp Weight	2.8KG	2.85KG	2.98KG	3.86KG	3.94KG	4.92KG	3.9KG	4.29KG	4.06KG	5.04KG
Package Dimension	700*230*260MM									
Suggested Mount Height	4-6M			6M	6-8M					
Warranty	3 Years									

15W Parameter

INTENSITY DISTRIBUTION DIAGRAM IN C PLANS

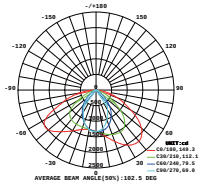


PLANAR ILLUMINANCE CURVE

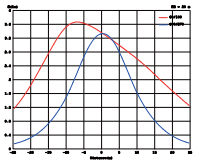


30W Parameter

INTENSITY DISTRIBUTION DIAGRAM IN C PLANS

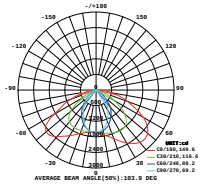


PLANAR ILLUMINANCE CURVE

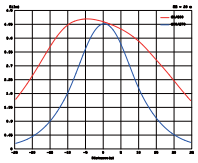


40W Parameter

INTENSITY DISTRIBUTION DIAGRAM IN C PLANS



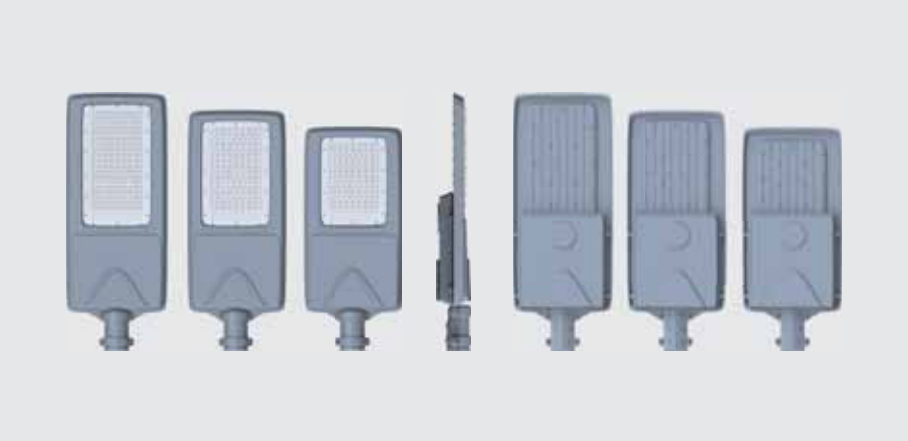
PLANAR ILLUMINANCE CURVE



WOLF

10W/12W/15W/20W/27W/30W/40W

High quality LED light beads, daylight level new brightness.
The large lamp beads with lenses have better light gathering effect, higher brightness and wider irradiation range.
Wide illumination range by irradiating from different directions.
High photoelectric conversion efficiency, can be charged even in rainy days.
Style, height, all can be customized.

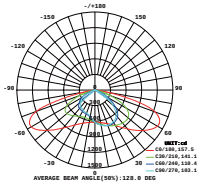


PRODUCT PARAMETERS

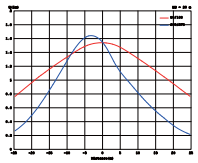
Model No.	WOLF-011	WOLF-012	WOLF-013	WOLF-014	WOLF-015
Rated Power	12W	15W	20W	10W	20W
System Voltage	DC3.2V			DC12.8V	
LiFePO4 Battery	40AH3.2V	50AH3.2V	60AH3.2V	12AH12.8V	24AH12.8V
Controller	20A			10A30W	
Light Source	5054				
Light Distribution	Bat-Wing light distribution (150°*75°)				
Light Efficiency	130-160LM/W				
Color Temperature	3000K-6000K				
CRI	≥Ra70				
IP Rating	IP65				
Working Temperature	-10℃ -+60℃				
LED Lifespan	50000H-100000H				
Mount Diameter	Φ60MM				
Lamp Dimension	497*205*90MM				
Lamp Weight	2.22KG	2.26KG	2.4KG	2.33KG	3.3KG
Total Case Weight	11.6KG(5pcs/CTN)	11.8KG(5pcs/CTN)	12.5KG(5pcs/CTN)	12.2KG(5pcs/CTN)	17KG(5pcs/CTN)
Package Dimension	540*235*520MM				
Suggested Mount Height	4-6M				
Warranty	3 Years				

20W Parameter

INTENSITY DISTRIBUTION DIAGRAM IN C PLANS

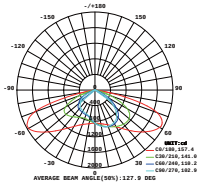


PLANAR ILLUMINANCE CURVE

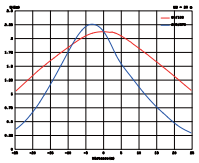


30W Parameter

INTENSITY DISTRIBUTION DIAGRAM IN C PLANS



PLANAR ILLUMINANCE CURVE



Model No.	WOLF-021	WOLF-022	WOLF-023	WOLF-024	WOLF-025	WOLF-026	WOLF-027	WOLF-028
Rated Power	12W	15W	20W	20W	27W	10W	20W	30W
System Voltage	DC3.2V					DC12.8V		
LiFePO4 Battery	40AH3.2V	50AH3.2V	60AH3.2V	80AH3.2V	100AH3.2V	12AH12.8V	24AH12.8V	36AH12.8V
Controller	20A					10A30W		
Light Source	5054							
Light Distribution	Bat-Wing light distribution (150°*75°)							
Light Efficiency	130-160LM/W							
Color Temperature	3000K-6000K							
CRI	≥Ra70							
IP Rating	IP65							
Working Temperature	-10℃ -+60℃							
LED Lifespan	50000H-100000H							
Mount Diameter	Φ60MM							
Lamp Dimension	550*240*100MM							
Lamp Weight	2.28KG	2.32KG	2.46KG	3.34KG	3.42KG	2.4KG	3.38KG	4.37KG
Total Case Weight	11.9KG (5pcs/CTN)	12.15KG (5pcs/CTN)	12.85KG (5pcs/CTN)	17.25KG (5pcs/CTN)	17.65KG (5pcs/CTN)	12.55KG (5pcs/CTN)	17.45KG (5pcs/CTN)	22.4KG (5pcs/CTN)
Package Dimension	600*255*605MM							
Suggested Mount Height	4-6M							6-8M
Warranty	3 Years							

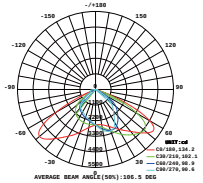
Model No.	WOLF-031	WOLF-032	WOLF-033	WOLF-034	WOLF-035	WOLF-036	WOLF-037	WOLF-038	WOLF-039	WOLF-310
Rated Power	12W	15W	20W	20W	27W	27W	10W	20W	30W	40W
System Voltage	DC3.2V						DC12.8V			
LiFePO4 Battery	40AH3.2V	50AH3.2V	60AH3.2V	80AH3.2V	100AH3.2V	120AH3.2V	12AH12.8V	24AH12.8V	36AH12.8V	48AH12.8V
Controller	20A						10A30W			
Light Source	5054									
Light Distribution	Bat-Wing light distribution (150°*75°)									
Light Efficiency	130-160LM/W									
Color Temperature	3000K-6000K									
CRI	≥Ra70									
IP Rating	IP65									
Working Temperature	-10℃ -+60℃									
LED Lifespan	50000H-100000H									
Mount Diameter	Φ60MM									
Lamp Dimension	600*255*115MM									
Lamp Weight	2.72KG	2.76KG	2.9KG	3.77KG	3.85KG	4.83KG	2.83KG	3.82KG	4.8KG	5.8KG
Total Case Weight	3.12KG (1pc/CTN)	3.1KG (1pc/CTN)	3.3KG (1pc/CTN)	4.17KG (1pc/CTN)	4.29KG (1pc/CTN)	5.23KG (1pc/CTN)	3.23KG (1pc/CTN)	4.22KG (1pc/CTN)	5.2KG (1pc/CTN)	6.2KG (1pc/CTN)
Package Dimension	610*275*115MM									
Suggested Mount Height	4-6M								6-8M	
Warranty	3 Years									

EAGLE 10W/12W/15W/20W/27W/30W/40W

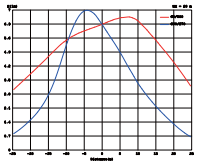
High quality LED light beads, daylight level new brightness.
The large lamp beads with lenses have better light gathering effect, higher brightness and wider irradiation range.
Wide illumination range by irradiating from different directions.
High photoelectric conversion efficiency, can be charged even in rainy days.
Style, height, all can be customized.

60W Parameter

INTENSITY DISTRIBUTION DIAGRAM IN C PLANS



PLANAR ILLUMINANCE CURVE



PRODUCT PARAMETERS

Model No.	EAGLE-011	EAGLE-012	EAGLE-013	EAGLE-014	EAGLE-015	EAGLE-016	EAGLE-017	EAGLE-018	EAGLE-019	EAGLE-110
Rated Power	12W	15W	20W	20W	27W	27W	10W	20W	30W	40W
System Voltage	DC3.2V						DC12.8V			
LiFePO4 Battery	40AH3.2V	50AH3.2V	60AH3.2V	80AH3.2V	100AH3.2V	120AH3.2V	12AH12.8V	24AH12.8V	36AH12.8V	48AH12.8V
Controller	20A						10A30W			
Light Source	3030									
Light Distribution	Bat-Wing light distribution (150°*75°)									
Light Efficiency	140-160LM/W									
Color Temperature	3000K-6000K									
CRI	≥Ra70									
IP Rating	IP65									
Working Temperature	-10℃ -+60℃									
LED Lifespan	50000H-100000H									
Mount Diameter	Φ60MM									
Lamp Dimension	600*265*100MM									
Lamp Weight	2.84KG	2.88KG	3.02KG	3.9KG	3.98KG	4.95KG	2.95KG	3.94KG	4.93KG	5.92KG
Total Case Weight	3.14KG (1pc/CTN)	3.18KG (1pc/CTN)	3.32KG (1pc/CTN)	4.3KG (1pc/CTN)	4.38KG (1pc/CTN)	5.35KG (1pc/CTN)	3.35KG (1pc/CTN)	4.34KG (1pc/CTN)	5.33KG (1pc/CTN)	6.32KG (1pc/CTN)
Package Dimension	615*275*115MM									
Suggested Mount Height	4-6M								6-8M	
Warranty	3 Years									

Model No.	EAGLE-021	EAGLE-022	EAGLE-023	EAGLE-024	EAGLE-025	EAGLE-026	EAGLE-027	EAGLE-028	EAGLE-029	EAGLE-210
Rated Power	12W	15W	20W	20W	27W	27W	10W	20W	30W	40W
System Voltage	DC3.2V						DC12.8V			
LiFePO4 Battery	40AH3.2V	50AH3.2V	60AH3.2V	80AH3.2V	100AH3.2V	120AH3.2V	12AH12.8V	24AH12.8V	36AH12.8V	48AH12.8V
Controller	15A30W						10A30W			
Light Source	3030									
Light Distribution	Bat-Wing light distribution (150°*75°)									
Light Efficiency	150-160LM/W									
Color Temperature	3000K-6000K									
CRI	≥Ra70									
IP Rating	IP65									
Working Temperature	-10℃ -+60℃									
LED Lifespan	50000H-100000H									
Mount Diameter	Φ60MM									
Lamp Dimension	710*265*100MM									
Lamp Weight	3.21KG	3.25KG	3.39KG	4.26KG	4.34KG	5.32KG	3.22KG	4.21KG	5.2KG	6.2KG
Total Case Weight	3.66KG (1pc/CTN)	3.7KG (1pc/CTN)	3.84KG (1pc/CTN)	4.71KG (1pc/CTN)	4.79KG (1pc/CTN)	5.77KG (1pc/CTN)	3.67KG (1pc/CTN)	4.66KG (1pc/CTN)	5.65KG (1pc/CTN)	6.65KG (1pc/CTN)
Package Dimension	730*285*130MM									
Suggested Mount Height	4-6M								6-8M	
Warranty	3 Years									

Split Solar Street Light AC LED Street Light

Applicable Scenarios

- Municipal arterial & secondary roads: Road lighting projects requiring high brightness and long operating hours.
- Large factories & industrial parks: Wide-area lighting scenarios that demand higher power and stable performance.
- Remote areas & highway service zones: Off-grid lighting applications where reliable solar power supply is required.
- Coastal, alpine & windy regions: Environments requiring strong wind resistance and reliable low-temperature performance.

This series uses the same street light housing platform and provides two power supply options: split-type solar system and AC-powered LED system. In the split solar configuration, the solar panel, battery and controller are installed externally, leaving only the LED light source inside the lamp head for improved heat dissipation and higher power capability. In the AC configuration, the LED driver is built into the lamp housing and powered by the grid, delivering stable lighting for conventional road applications.The unified design allows flexible use in both solar lighting and grid-powered street lighting projects.

Core Functions

- **High-efficiency solar power generation & large-capacity energy storage**
  High-efficiency monocrystalline or polycrystalline solar panels are available to improve photoelectric conversion performance. The system is equipped with large-capacity $LiFePO_4$ batteries, supporting 3–7 days of continuous lighting during rainy weather while meeting the requirements of high-power and long-duration lighting.

- **Intelligent control & sensing functions**
  Supports light control and time control modes, allowing flexible setting of lighting periods and brightness levels, such as full brightness in the early night and reduced power in the later hours. Optional microwave or motion sensing enables full brightness when people approach and dimming when the area is vacant, effectively reducing energy consumption.

- **Reliable protection & environmental adaptability**
  The light source, battery and controller adopt IP65/IP66 protection to ensure reliable outdoor operation. The battery box features anti-theft, moisture-proof and heat-insulating design. The system supports operation in extreme temperatures from -30°C to 60°C, and the solar panel angle and pole height can be adjusted to maximize solar energy absorption.

*AC: Grid-powered lighting (requires municipal electricity supply).
*DC: Solar-powered lighting (powered by batteries charged by solar panels).

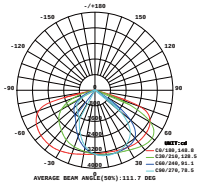
TRANSFO

60W/100W/120W/180W/240W/300W

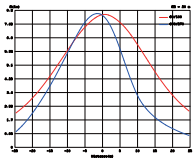
This lamp is compatible with solar and grid-powered systems, allowing you to customize it according to your needs.
LED chip highlights the bead, high brightness, low light decay, long service life.
High color, light weakness, no stroboscopic.
Using high transmittance lenses and scientific light distribution methods, high light beads, low light attenuation, and long life.
Die-cast aluminum heat dissipation material and strong convection heat dissipation design improve heat dissipation performance and extend the life of the lamp body.

60W Parameter

INTENSITY DISTRIBUTION DIAGRAM IN C PLANS



PLANAR ILLUMINANCE CURVE



PRODUCT PARAMETERS

Model No.	TRANSFO-DC-001	TRANSFO-DC-002
Rated Power	60W	100W
System Voltage	DC54V	
Light Source	3030	
Light Distribution	Bat-Wing light distribution (150°*75°)	
Light Efficiency	120LM/W	
Color Temperature	3000K-6000K	
CRI	Ra≥70	
IP Rating	IP65	
Working Temperature	-10℃ -+60℃	
LED Lifespan	50000H-100000H	
Mount Diameter	Φ60MM	
Lamp Dimension	640*330*101MM	640*330*101MM
Lamp Weight	3.6KG	4.0KG
Package Dimension (two packs)	650*340*180MM (2pcs/CTN)	650*340*180MM (2pcs/CTN)
Suggested Mount Height	8-10M	8-12M
Warranty	3 Years	

Model No.	TRANSFO-AC-001	TRANSFO-AC-002	TRANSFO-AC-003	TRANSFO-AC-004	TRANSFO-AC-005
Rated Power	60W	120W	180W	240W	300W
Power Supply	AC100-277V				
Light Source	3030				
Light Distribution	Bat-Wing light distribution (150°*75°)				
Light Efficiency	120-180LM/W				
Power Supply	Mingwei/Dongling				
Color Temperature	3000K-6000K				
CRI	Ra≥70				
IP Rating	IP65				
Working Temperature	-10℃ -+60℃				
LED Lifespan	50000H-100000H				
Mount Diameter	Φ60MM				
Lamp Dimension	640*330*101MM	640*330*101MM	720*330*101MM	720*330*101MM	800*330*101MM
Lamp Weight	3.7KG	4.4KG	5.1KG	6.0KG	6.3KG
Package Dimension	650*340*180MM (2pcs/CTN)	650*340*180MM (2pcs/CTN)	730*340*180MM (2pcs/CTN)	730*340*180MM (2pcs/CTN)	810*340*180MM (2pcs/CTN)
Suggested Mount Height	8-10M	8-12M	8-12M	10-14M	10-16M
Warranty	3 Years				

HAT ≤120W/180W

This lamp is compatible with solar and grid-powered systems,
allowing you to customize it according to your needs.
SMD design offers high cost-performance;
Good heat dissipation extends the lamp body's lifespan;
Simple and attractive design with strong adaptability;
Back cover can be opened for easy maintenance.

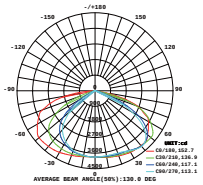
PRODUCT PARAMETERS

Model No.	HAT-AC-001	HAT-AC-002
Rated Power	≤120W	≤180W
System Voltage	AC100-277V	
Light Source	3030	
Light Distribution	Bat-Wing light distribution (150°*75°)	
Light Efficiency	100-160LM/W	
Power Supply	Mingwei/Dongling	
Color Temperature	3000K-6000K	
CRI	Ra≥70	
IP Rating	IP65	
Working Temperature	-10℃ -+60℃	
LED Lifespan	50000H-100000H	
Mount Diameter	Φ60MM	
Lamp Dimension	630*240*125MM	670*250*125MM
Lamp Weight	2.75KG	3.15KG
Package Dimension	680*270*140MM(2pcs/CTN)	730*270*140MM(2pcs/CTN)
Suggested Mount Height	6-10M	6-12M
Warranty	3 Years	

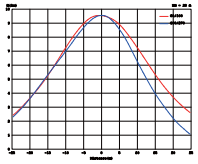
Vertical entry design
Side entry design

120W Parameter

INTENSITY DISTRIBUTION DIAGRAM IN C PLANS

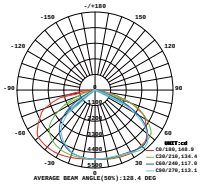


PLANAR ILLUMINANCE CURVE

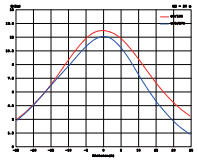


180W Parameter

INTENSITY DISTRIBUTION DIAGRAM IN C PLANS

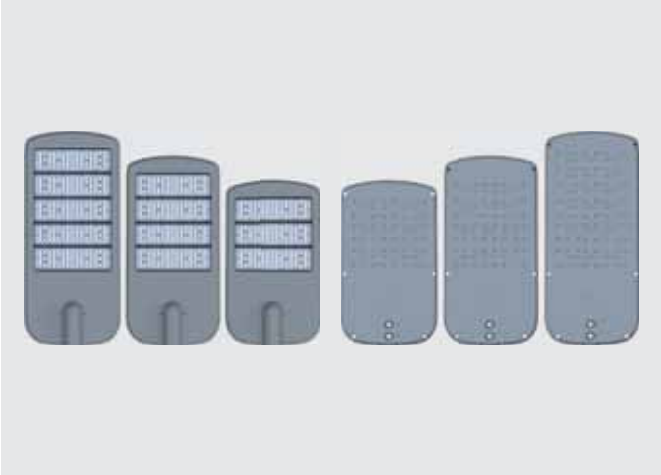


PLANAR ILLUMINANCE CURVE



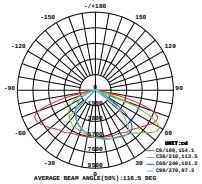
GLOW 60W/120W/180W/240W/300W

This lamp is compatible with solar and grid-powered systems, allowing you to customize it according to your needs.
Energy-saving and efficient LED light beads, continuous and stable, longer life.
Adopting environmentally friendly materials, anti-oxidation, prolonging the use of time.
Good large heat dissipation holes.
Multi-module optional, meet different scene requirements.

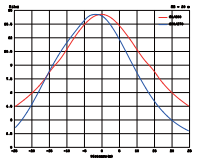


150W Parameter

INTENSITY DISTRIBUTION DIAGRAM IN C PLANS



PLANAR ILLUMINANCE CURVE



PRODUCT PARAMETERS

Model No.	GLOW-DC-001	GLOW-DC-002	GLOW-DC-003	GLOW-DC-004	GLOW-DC-005
Rated Power	60W	120W	180W	240W	300W
System Voltage	DC54V				
Light Source	3030				
Light Distribution	Bat-Wing light distribution (150°*75°)				
Light Efficiency	140-160LM/W				
Color Temperature	3000K-5000K				
CRI	≥Ra70				
IP Rating	IP65				
Working Temperature	-10℃ -+60℃				
Working Humidity	10%-90%RH				
LED Lifespan	50000H-100000H				
Mount Diameter	Φ60MM				
Lamp Dimension	561*320*88MM			721*320*88MM	
Lamp Weight	3.23KG	3.23KG	3.92KG	4.75KG	5.37KG
Package Dimension	580*330*190MM(2pcs/CTN)			740*330*190MM(2pcs/CTN)	
Suggested Mount Height	8-10M	8-12M	10-14M	10-16M	12-16M
Warranty	3 Years				

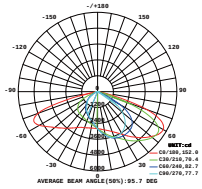
Model No.	GLOW-AC-001	GLOW-AC-002	GLOW-AC-003	GLOW-AC-004	GLOW-AC-005
Rated Power	60W	120W	180W	240W	300W
System Voltage	AC100-277V				
Light Source	3030				
Light Distribution	Bat-Wing light distribution (150°*75°)				
Light Efficiency	140-160LM/W				
Power Supply	Mingwei/Dongling				
Color Temperature	3000K-5000K				
CRI	≥Ra70				
IP Rating	IP65				
Working Temperature	-10℃ -+60℃				
Working Humidity	10%-90%RH				
LED Lifespan	50000H-100000H				
Mount Diameter	Φ60MM				
Lamp Dimension	561*320*88MM			721*320*88MM	
Lamp Weight	3.23KG	3.23KG	3.92KG	4.75KG	5.37KG
Package Dimension	580*330*190MM(2pcs/CTN)			740*330*190MM(2pcs/CTN)	
Suggested Mount Height	8-10M	8-12M	10-14M	10-16M	12-16M
Warranty	3 Years				

STELLAR 30W/40W/50W/60W/80W

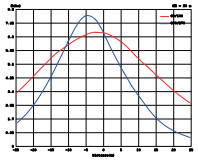
This lamp is compatible with solar and grid-powered systems, allowing you to customize it according to your needs.
Energy-saving and efficient LED light beads, continuous and stable, longer life.
Adopting environmentally friendly materials, anti-oxidation, prolonging the use of time.
Good large heat dissipation holes.
Multiple installation methods to cope with various scenes.

80W Parameter

INTENSITY DISTRIBUTION DIAGRAM IN C PLANS



PLANAR ILLUMINANCE CURVE



PRODUCT PARAMETERS

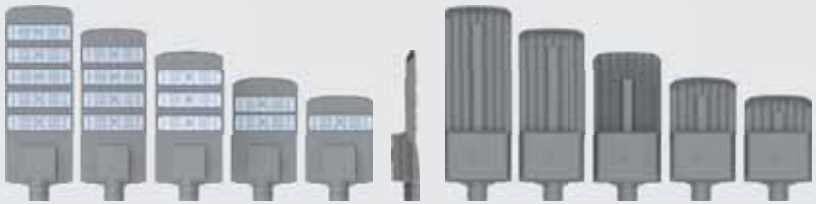
Model No.	STELLAR-DC-001	STELLAR-DC-002	STELLAR-DC-003	STELLAR-DC-004	STELLAR-DC-005
Rated Power	30W	40W	50W	60W	80W
System Voltage	DC30V			DC48V	
Light Source	3030				5050
Light Distribution	Bat-Wing light distribution (150°×75°)				
Light Efficiency	130-160LM/W				
Color Temperature	3000K-5000K				
CRI	≥Ra70				
IP Rating	IP65				
Working Temperature	-10℃ -+60℃				
Working Humidity	10%-90%RH				
LED Lifespan	50000H-100000H				
Mount Diameter	Φ60MM				
Lamp Dimension	535×240×90MM				
Lamp Weight	1.94KG	1.94KG	2.11KG	2.11KG	2.11KG
Lamp Dimension	535×240×90MM				
Package Dimension	555×250×190MM(2pcs/CTN)				
Suggested Mount Height	4-6M	6-8M	7-8M	8-10M	8-11M
Warranty	3 Years				

Model No.	STELLAR-AC-001	STELLAR-AC-002	STELLAR-AC-003	STELLAR-AC-004	STELLAR-AC-005
Rated Power	30W	40W	50W	60W	80W
System Voltage	AC100-277V				
Light Source	3030				5050
Light Distribution	Bat-Wing light distribution (150°×75°)				
Light Efficiency	≥160LM/W				
Power Supply	Mingwei/Dongling				
Color Temperature	3000K-5000K				
CRI	≥Ra70				
IP Rating	IP65				
Working Temperature	-10℃ -+60℃				
Working Humidity	10%-90%RH				
LED Lifespan	50000H-100000H				
Mount Diameter	Φ60MM				
Lamp Dimension	535×240×90MM				
Lamp Weight	2.7KG	2.8KG	2.8KG	2.9KG	3.0KG
Lamp Dimension	535×240×90MM				
Package Dimension	555×250×190MM(2pcs/CTN)				
Suggested Mount Height	4-6M	6-8M	7-8M	8-10M	8-11M
Warranty	3 Years				

COSMO

30W/50W/80W/100W/120W

High quality LED light beads, daylight level new brightness.
The large lamp beads with lenses have better light gathering effect, higher brightness and wider irradiation range.
Wide illumination range by irradiating from different directions.
High photoelectric conversion efficiency, can be charged even in rainy days.
Style, height, all can be customized.

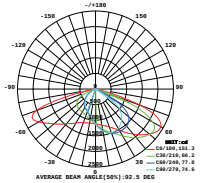


PRODUCT PARAMETERS

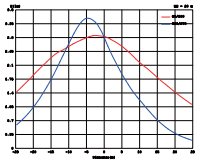
Model No.	COSMO-AC-001	COSMO-AC-002	COSMO-AC-003	COSMO-AC-004	COSMO-AC-005
Rated Power	30W	50W	80W	100W	120W
System Voltage	AC220V				
Light Source	3030				
Light Distribution	Bat-Wing light distribution (150°*75°)				
Light Efficiency	150-160LM/W				
Color Temperature	3000K-6000K				
CRI	≥Ra70				
IP Rating	IP65				
Working Temperature	-10℃ -+60℃				
LED Lifespan	50000H-100000H				
Mount Diameter	Φ60MM				
Lamp Dimension	420*263*75MM	507*263*75MM	597*263*75MM	687*263*75MM	780*263*75MM
Lamp Weight	1.35KG	1.55KG	1.9KG	2.3KG	2.65KG
Total Case Weight	1.85KG(1pc/CTN)	2.05KG(1pc/CTN)	2.4KG(1pc/CTN)	2.8KG(2pcs/CTN)	3.15KG(1pc/CTN)
Package Dimension	440*280*115MM	525*275*115MM	615*275*115MM	705*275*85MM	790*275*115MM
Suggested Mount Height	6-8M	8-10M		8-12M	
Warranty	3 Years				

30W Parameter

INTENSITY DISTRIBUTION DIAGRAM IN C PLANS

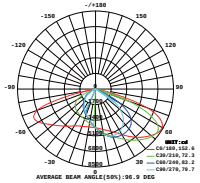


PLANAR ILLUMINANCE CURVE

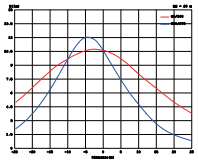


120W Parameter

INTENSITY DISTRIBUTION DIAGRAM IN C PLANS



PLANAR ILLUMINANCE CURVE



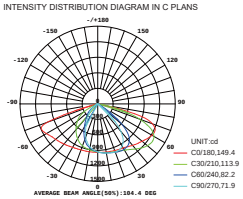
COMPACT ≤40W

Patented Lens, Bat wing Type Light Source to make a more uniform light distribution,
Intelligent control system to customize illumination and reduce the power consumption,
Patented support arm, easy installation and maintenance,
LiFePo4 Lithium battery, longer lifespan and safer use,
Longer cycles, economical and practical.

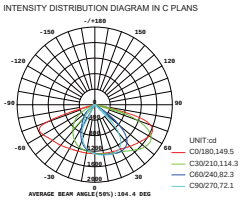
PRODUCT PARAMETERS

Model No.	COMPACT
Rated Power	≤40W
System Voltage	AC100-277V
Light Source	3030
Light Distribution	Bat-wing light distribution (150°x75°)
Light Effciency	≥160LM/W
Power Supply	Mingwei/Dongling
Color Temperature	3000K/4000K/5700K/6500K
CRI	≥Ra70
IP Rating	IP65
IP Rating	IK08
Working Temperature	-10℃ -+60℃
Mount Diameter	Φ48MM
LED Lifespan	＞50000H
Lamp Dimension	585*260*105MM
Package Dimension	595*270*220MM(2pcs/CTN)
Mounting Method	Hoop Clamp-Mount Type and Wall-Mount Type
Lamp Weight	3.48KG
Suggested Mount Height	5-6M
Warranty	3 Years

20W Parameter



30W Parameter



PULSE 60W/100W/120W/180W/240W/300W

PRODUCT PARAMETERS

Model No.	PULSE-AC-001	PULSE-AC-002	PULSE-AC-003	PULSE-AC-004	PULSE-AC-005	PULSE-AC-006
Rated Power	60W	100W	120W	180W	240W	300W
Power Supply	AC100-277V					
LED Junction Temperature	<60℃					
LED Efficiency	120LM/W					
Power Supply	Mingwei/Dongling					
Color Temperature	3000K/4000K/5000K/6000K					
Color Rendering	≥Ra75					
Power Factor	>0.95					
Operating Temperature	-40℃ -+50℃					
IP Rating	IP65					
IK Rating	IK08					
Lamp Life	>50000H					
Mount Diameter	Φ60MM					
Lamp Weight	4.7KG	4.9KG	4.9KG	5.95KG	6.1KG	6.57
Lamp Dimension	820*365*175MM					
Warranty	3 Years					

VISION

60W/120W/180W/240W/300W

PRODUCT PARAMETERS

Model No.	VISION-AC-001	VISION-AC-002	VISION-AC-003	VISION-AC-004	VISION-AC-005
Rated Power	60W	120W	180W	240W	300W
Power Supply	AC100-277V				
LED Junction Temperature	<60°C				
LED Efficiency	120LM/W				
Power Supply	Mingwei/Dongling				
Color Temperature	3000K/4000K/5000K/6000K				
Color Rendering	≥Ra75				
Power Factor	>0.95				
Operating Temperature	-40°C -+50°C				
IP Rating	IP65				
IK Rating	IK08				
Lamp Life	>50000H				
Mount Diameter	Φ60MM				
Lamp Weight	3.73KG	3.95KG	4.8KG	5.8KG	6.67KG
Lamp Dimension	475*350*88MM		555*350*88MM	638*350*88MM	715*350*88MM
Warranty	3 Years				

Solar Light for Home

Solar Light for Home

Home garden solar street lights are a simple and cost-saving outdoor lighting solution designed for home gardens, villas, rural houses, vacation rentals and small outdoor spaces. It charges automatically during the day and lights up at night without grid electricity or wiring. Easy to install and maintenance-free, it provides reliable lighting for courtyards, pathways and small outdoor areas.

Applicable Scenarios

- Villa courtyards and rural house yards for daily outdoor lighting
- Garden paths, lawns and landscape areas for nighttime illumination
- Doorways, garages and courtyard walls for auxiliary security lighting
- Small communities, B&B courtyards and farmyards for convenient outdoor lighting

Core Functions

- **Zero electricity cost, solar powered**
  Powered entirely by solar energy, the system requires no grid electricity, helping reduce long-term energy costs.
- **No wiring, quick installation**
  The integrated design eliminates complicated wiring. Simply mount the fixture and it is ready to operate.
- **Automatic lighting control**
  Built-in light sensor enables automatic charging during the day and lighting at night, with no manual operation required.
- **Weather-resistant outdoor design**
  Durable waterproof construction ensures stable performance in rain, heat and cold outdoor environments.
- **Lighting + landscape + security**
  Provides pathway illumination, enhances garden aesthetics and improves nighttime safety around the home.

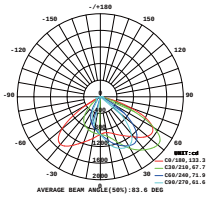
ENDURA

≤20W

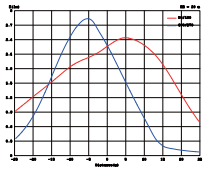
Coverage efficiency is enhanced, making it particularly suitable for scenarios such as two-way lanes, narrow roads, and campus pathways, thereby eliminating “dark zones between light poles.” This achieves the comprehensive advantages of fewer poles, wider coverage, lower energy consumption, and a superior experience.

20W Parameter

INTENSITY DISTRIBUTION DIAGRAM IN C PLANS



PLANAR ILLUMINANCE CURVE



PRODUCT PARAMETERS

Model No.	**ENDURA**
Specifications	DC3.2V
Rated Power	≤20W(Customized)
Solar Panel	75W/6V
Battery	80AH/3.2V
Light Source	5054
Controller	15A20W
Light Distribution	Bat-Wing light distribution (150°*75°)
Light Efficiency	150-170LM/W
Color Temperature	3000-6000K
CRI	≥Ra70
IP Rating	IP65
Working Temperature	-10℃ -+60℃
LED Lifespan	50000H-100000H
Mount Diameter	Φ76MM
Lamp Dimension	1120*400*230MM
Lamp Weight	12.63KG
Total Case Weight	14.65KG
Package Dimension	1345*440*155MM
Suggested Mount Height	4-6M
Warranty	3 Years

CRUISER ≤20W

Flexible installation with no wiring required, adapting to any garden layout.
High safety standards, especially suitable for households with elderly or children.
Eco-friendly, energy-efficient, and smart—aligning with modern family living concepts.
Combines decorative appeal with practical functionality, enhancing the garden ambiance.

SENSOR RECEPTOR

Precision light-sensing control enables “auto-on at dusk, auto-off at dawn,” completely freeing up manual labor.
Low-power design integrates seamlessly with solar systems without adding extra energy consumption.
Flexible adaptation to diverse scenarios meets personalized household needs.

PRODUCT PARAMETERS

Model No.	**CRUISER**
Specifications	DC3.2V
Rated Power	≤20W(Customized)
Solar Panel	65W/6V
Battery	50AH/3.2V
Light Source	5050
Controller	20W
Light Distribution	Bat-Wing light distribution (150°*75°)
Light Efficiency	140-160LM/W
Color Temperature	3000-6000K
CRI	≥Ra70
IP Rating	IP65
Working Temperature	-10℃ -+60℃
LED Lifespan	50000H-100000H
Mount Diameter	Φ76MM
Lamp Dimension	580*580*155MM
Lamp Weight	5.9KG
Total Case Weight	6.9KG
Package Dimension	700*590*90MM
Suggested Mount Height	3-4M
Warranty	3 Years

BUDDY-A/B

ABS housing material, providing stability, heat resistance and surface hardness.
The lenses are specially designed for high brightness and high light transmission.
Monochrome panel shows excellent stability and efficiency in photoelectric conversion.
Long-lasting lithium iron phosphate battery for long-lasting power.

PRODUCT ADVANTAGES AND FEATURES

- Highlight
- ABS
- IP65
- New Battery

PRODUCT MODE

+ Digital display
+ Photocell sensor
+ Remote control

PRODUCT PARAMETERS

Model No.	BUDDY-001	BUDDY-002	BUDDY-003	BUDDY-004	BUDDY-005	BUDDY-006	BUDDY-007
Solar Panel	Mono.6V3W	Mono.6V8W	Mono.6V10W	Mono.6V15W	Mono.6V18W	Mono.6V25W	Mono.6V30W
Panel Size	220*137MM	270*180MM	235*350MM	350*290MM	350*350MM	450*350MM	530*350MM
Battery	3.2V/3AH	3.2V/4AH	3.2V/5AH	3.2V/8AH	3.2V/12AH	3.2V/18AH	3.2V/24AH
LED Chips	SMD5730 77pcs	SMD5730 77pcs	SMD5730 112pcs	SMD5730 144pcs	SMD5730 252pcs	SMD5730 322pcs	SMD5730 322pcs
Material	ABS						
IP Grade	IP67						
Control	Digital Display+Photocell Sensor+Remote Control						
Charge Time	5-6H						
Discharge Time	10-15H						
Irradiation Area	80 ㎡	100 ㎡	150 ㎡	180 ㎡	200 ㎡	250 ㎡	300 ㎡
Lamp Dimension	209*185*57MM	209*185*57MM	254*230*62MM	281*250*68MM	337*296*68MM	368*328*68MM	368*328*68MM
Lamp Weight	0.66KG	0.68KG	0.95KG	1.14KG	1.65KG	2.1KG	2.2KG
Package Dimension	205*245*95MM	192*295*90MM	242*380*90MM	358*315*95MM	365*380*95MM	460*375*100MM	538*375*100MM

High Mast Light

High mast lights are large-area outdoor lighting systems typically installed at heights above 15m, 20m, 30m even over 40m. They are widely used for large public spaces and transportation hubs where wide and uniform illumination is required.
The system usually consists of a steel light pole, high-power lighting fixtures, an electric lifting system and an electrical control system, providing efficient, stable and easy-to-maintain lighting solutions.

Applicable Scenarios

- Urban squares and public plazas requiring wide-area lighting
- Ports, docks and freight yards for large-scale industrial illumination
- Highways, interchanges and overpasses for high-level road lighting
- Stadiums and large parking areas requiring high-intensity flood lighting

Structural Composition

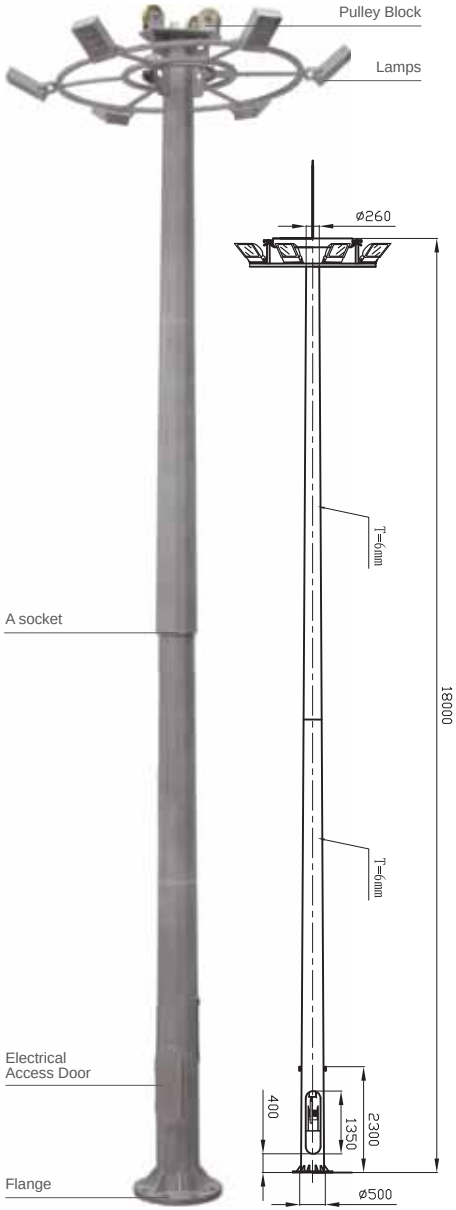
- Lamp Pole
  Made from high-strength steel plates formed and welded into octagonal or multi-sided tapered poles. The pole height typically ranges from 15–40 meters and is usually composed of 2–3 sections with a flange-mounted base for secure installation.

- Lighting Fixtures
  Equipped with multiple high-power lamps (commonly 6–24 units), providing wide-area illumination. The fixtures adopt corrosion-resistant aluminum alloy housings with IP65 protection for reliable outdoor operation.

- Electric Lifting System
  The built-in electric lifting mechanism includes a motor, winch and steel wire ropes, allowing the lighting frame to be safely lowered for maintenance. The guide system ensures stable and smooth operation during lifting.

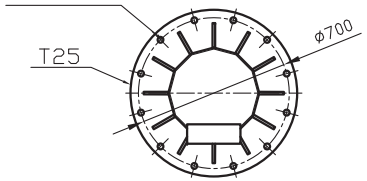
- Electrical Control System
  Supports automatic switching through timer control or centralized management systems, allowing flexible lighting operation and energy-efficient management.

- Lightning Protection System
  A lightning rod and grounding system are installed on the pole to provide reliable lightning protection and ensure safe operation in outdoor environments.

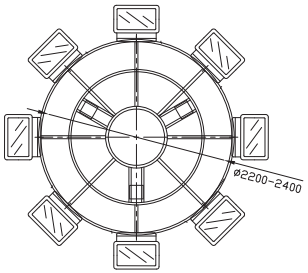


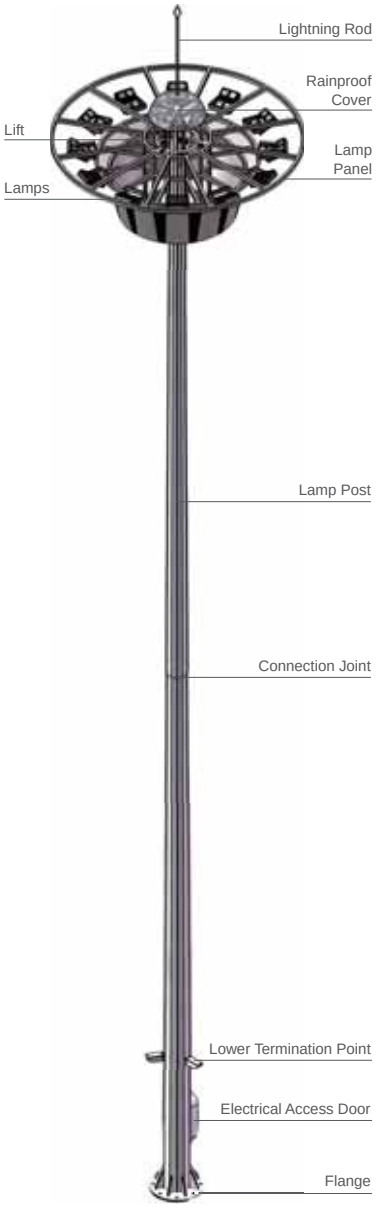
High Mast Light

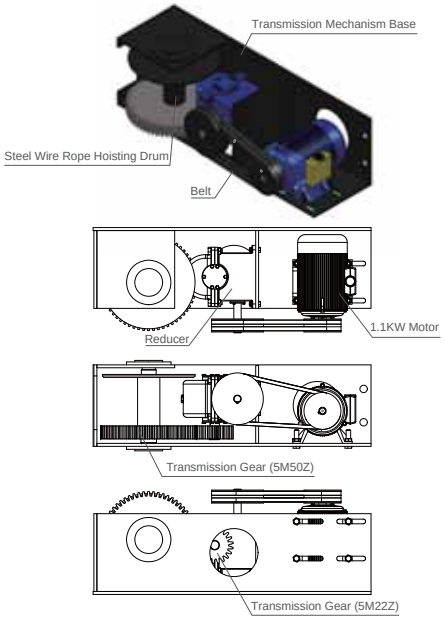
Base plate



Lamp panel





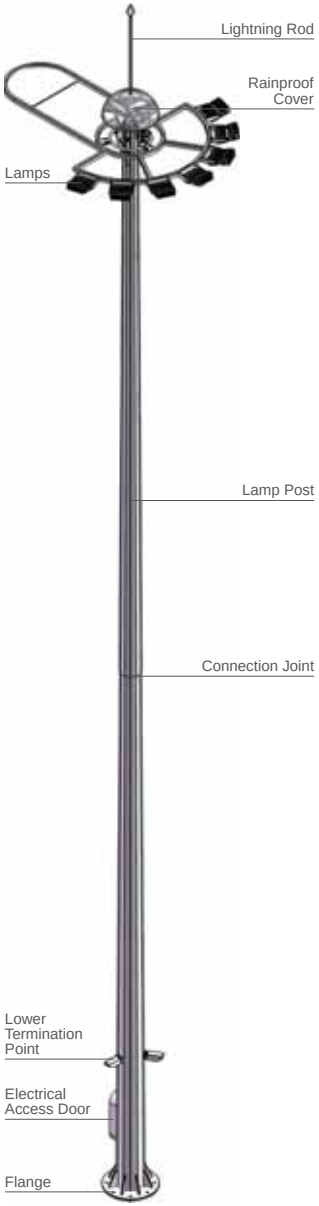


High elevation, wide illumination coverage:
Tall lamp poles provide extensive light coverage, with a single fixture capable of illuminating large areas while delivering high uniformity.

High brightness, powerful light output:
Utilizes high-power LED light sources offering ample brightness, excellent color rendering, and soft light to meet nighttime traffic, activity, and work requirements.

Sturdy structure with high wind resistance:
Steel/aluminum alloy poles undergo comprehensive hot-dip galvanization for corrosion protection, delivering high strength, corrosion resistance, and extended service life.

Liftable / Fixed-Mount Options:
Liftable: Allows the light panel to be lowered to ground level for safer and more convenient maintenance.
Fixed-Mount: Features a simple structure and economical cost, suitable for locations with favorable maintenance conditions.



T-shaped High Mast

Waterproof and lightning-resistant, suitable for outdoor use:
Both the lighting fixtures and electrical components feature outdoor-grade waterproof and lightning protection design, ensuring long-term reliability in harsh outdoor environments.

High Mast Pole with Lift System

Height(m)	Upper and lower diameters(mm)	Thickness(mm)	Flange Diameter(mm)
15	200-380	6-6/6-8	700*700*20
20	220-450	6-6/6-8	750*750*20
25	240-550	6-6-8/6-8-8/6-8-10	900*900*25
30	260-560/280-640	6-8-8/6-8-10/6-10-12	1050*1050*25/30
35	320-680	8-8-10/8-10-12	1100*1100*30
40	350-720	8-8-10-12/8-10-10-12	1200*1200*40
Applicable Scene	For large squares, sports, airports, high-speed service areas, city center intersections, etc. require large-area lighting.		

Driving Motor System	Height(m)	Weight Capacity(kg)	Power(kw)
Small	15-25	350	0.75
Mid	25-30	350-450	0.75-1
Large	30-40	450-700	1.1

Recommended Parameters

High Mast Pole with Step Ladder

Height(m)	Upper and lower diameters(mm)	Thickness(mm)	Flange Diameter(mm)
15	180-340	6-6/6-8	700*700*20
20	200-400	6-6/6-8	750*750*20
25	240-500	6-6-8/6-8-8/6-8-10	800*800*25
30	260-560	6-6-8/6-8-8/6-8-10	1000*1000*25/30
Applicable Scene	For large squares, sports, airports, high-speed service areas, city center intersections, etc. require large-area lighting.		

Recommended Parameters

SHADOW 120W/180W/240W/300W

Tight die cast alluminum body has excellent heat dissipation, effectively prolongs lamp lifespan.
Metal bracket allows flexibly installation including ceiling-mounted, wall-mounted and ground.

PRODUCT PARAMETERS

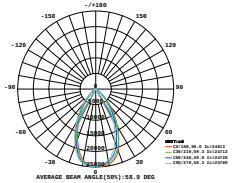
Model No.	SHADOW-001	SHADOW-002	SHADOW-003	SHADOW-004
Rated Power	120W/2 Modules	180W/3 Modules	240W/4 Modules	300W/5 Modules
System Voltage	AC100-277V			
Light Source	3030			
Light Distribution	Bat-Wing light distribution（150°×75°）			
Light Efficiency	≥120LM/W			
Color Temperature	3000K/4000K/5000K/6000K			
CRI	≥Ra70			
IP Rating	IP66			
IK Rating	IK08			
Working Temperature	-10℃ -+60℃			
Lamp Weight	4.7KG	5.2KG	6KG	7KG
LED Lifespan	＞50000H			
Lamp Dimension	300×380×63MM	380×380×63MM	460×380×63MM	550×380×63MM
Package Dimension	320×395×150MM (2pcs/CTN)	400×395×150MM (2pcs/CTN)	480×395×150MM (2pcs/CTN)	560×395×150MM (2pcs/CTN)
Suggested Mount Height	7-10M		10-12M	
Warranty	3 Years			

Core Competitive Advantages

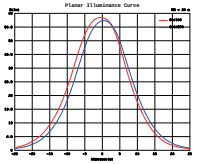
- **Outstanding Cost-Effectiveness**
The modular structure reduces repair and replacement costs, while the long-life design minimizes equipment investment over prolonged use. The overall operating cost is more than 30% lower than that of traditional floodlights.
- **Strong Installation Adaptability**
Equipped with a multi-angle adjustable mounting bracket, it can be quickly fixed to lamp poles, walls, and other positions, meeting the lighting angle requirements of various scenarios such as squares, stadiums, and billboards.
- **Energy Saving and Environmental Friendly**
Compared with traditional metal halide lamps, energy consumption is reduced by more than 60%, and it contains no harmful substances such as mercury, complying with the green and low-carbon environmental protection trend.

200W Parameter

INTENSITY DISTRIBUTION DIAGRAM IN C PLANS

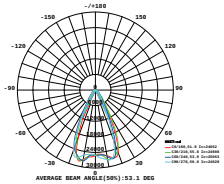


PLANAR ILLUMINANCE CURVE

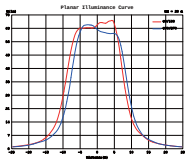


200W Parameter

INTENSITY DISTRIBUTION DIAGRAM IN C PLANS



PLANAR ILLUMINANCE CURVE



MEGA 120W/180W/240W/300W

Standard module, convenient storage, efficient radiating performance. Products are waterproof joints and silicone pad sealing process, the protection level of IP66,
suitable for a variety of harsh outdoor environment.

PRODUCT PARAMETERS

Model No.	MEGA-001	MEGA-002	MEGA-003	MEGA-004
Rated Power	120W/2 Modules	180W/3 Modules	240W/4 Modules	300W/5 Modules
System Voltage	AC100-277V			
Light Source	3030			
Light Distribution	Bat-Wing light distribution（150°*75°）			
Light Efficiency	≥120LM/W			
Color Temperature	3000K/4000K/5000K/6000K			
CRI	≥Ra70			
IP Rating	IP66			
IK Rating	IK08			
Working Temperature	-10℃ -+60℃			
Lamp Weight	2.3KG	4.3KG	5.5KG	6.3KG
LED Lifespan	＞50000H			
Lamp Dimension	210*350*120MM	280*340*120MM	350*340*120MM	420*340*120MM
Package Dimension	290*350*130MM (1pc/CTN)		360*350*130MM (1pc/CTN)	430*350*130MM (1pc/CTN)
Suggested Mount Height	7-10M			10-12M
Warranty	3 Years			

Core Competitive Advantages

- **Outstanding Cost-Effectiveness**
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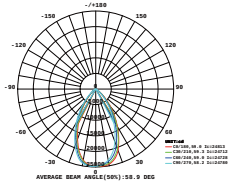
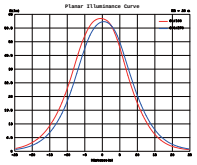
200W Parameter

INTENSITY DISTRIBUTION DIAGRAM IN C PLANS

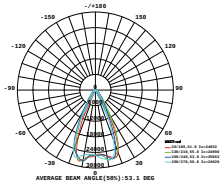


PLANAR ILLUMINANCE CURVE



200W Parameter

INTENSITY DISTRIBUTION DIAGRAM IN C PLANS



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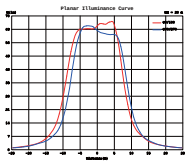


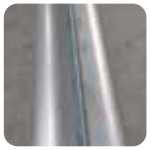
Street Light Pole

Streetlight poles serve as the core support structure for road lighting systems, primarily functioning to secure luminaires and adjust illumination angles while meeting requirements for wind resistance, corrosion prevention, and landscape integration. Their classification, materials, structure, and application scenarios are governed by specific standards.

Key Technical Parameters

- **Height:** Selected based on road width. Secondary roads typically use 6-8 meters, main roads 8-12 meters, and plazas/parking lots 12-40 meters.
- **Wind Resistance Rating:** Standard poles must withstand Category 10 wind loads; coastal and high-altitude areas require upgrading to Category 12.
- **Corrosion Protection:** Steel poles predominantly use hot-dip galvanizing + electrostatic powder coating, with a minimum zinc layer thickness of ≥85μm and powder coating thickness of ≥75μm to enhance weather resistance.
- **Foundation Requirements:** Concrete foundations with embedded anchors (flanges, anchor bolts) must support the pole base. Foundation dimensions are determined by pole height and weight to prevent overturning.

Craftsmanship details



- Laser welding process

- Laser tapping process

- Laser cutting process

- Robot welding process

- Full penetration robotic welding process

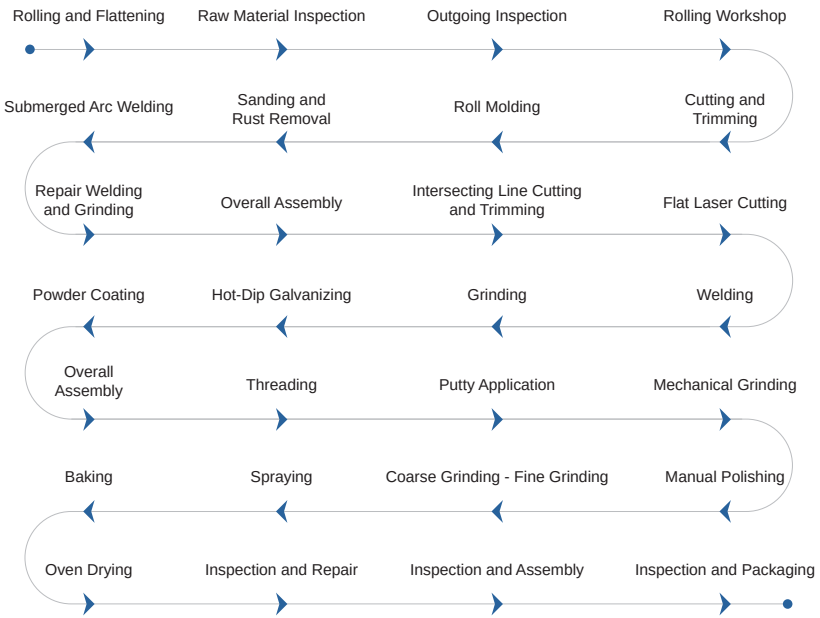
- Submerged arc welding process

- Polishing process after galvanization

- Powder coating process

- Color separating process

Light pole production process



• Lamp Post Raw Materials

• Precision Cutting

• Rolling

• Submerged Arc Welding

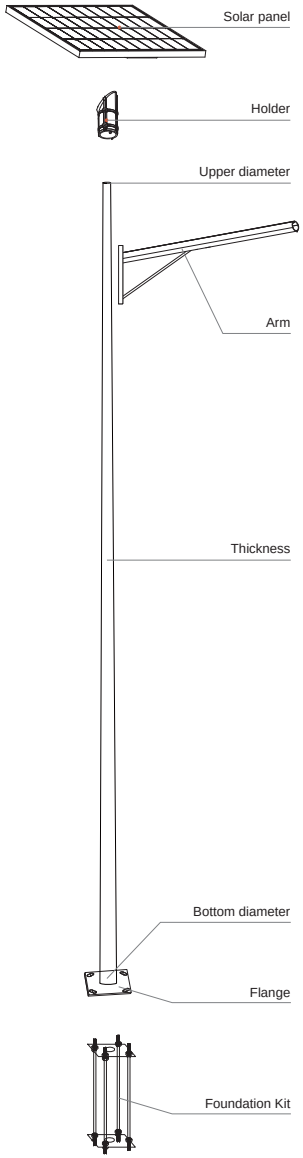
• Galvanizing Process

• Spraying Process

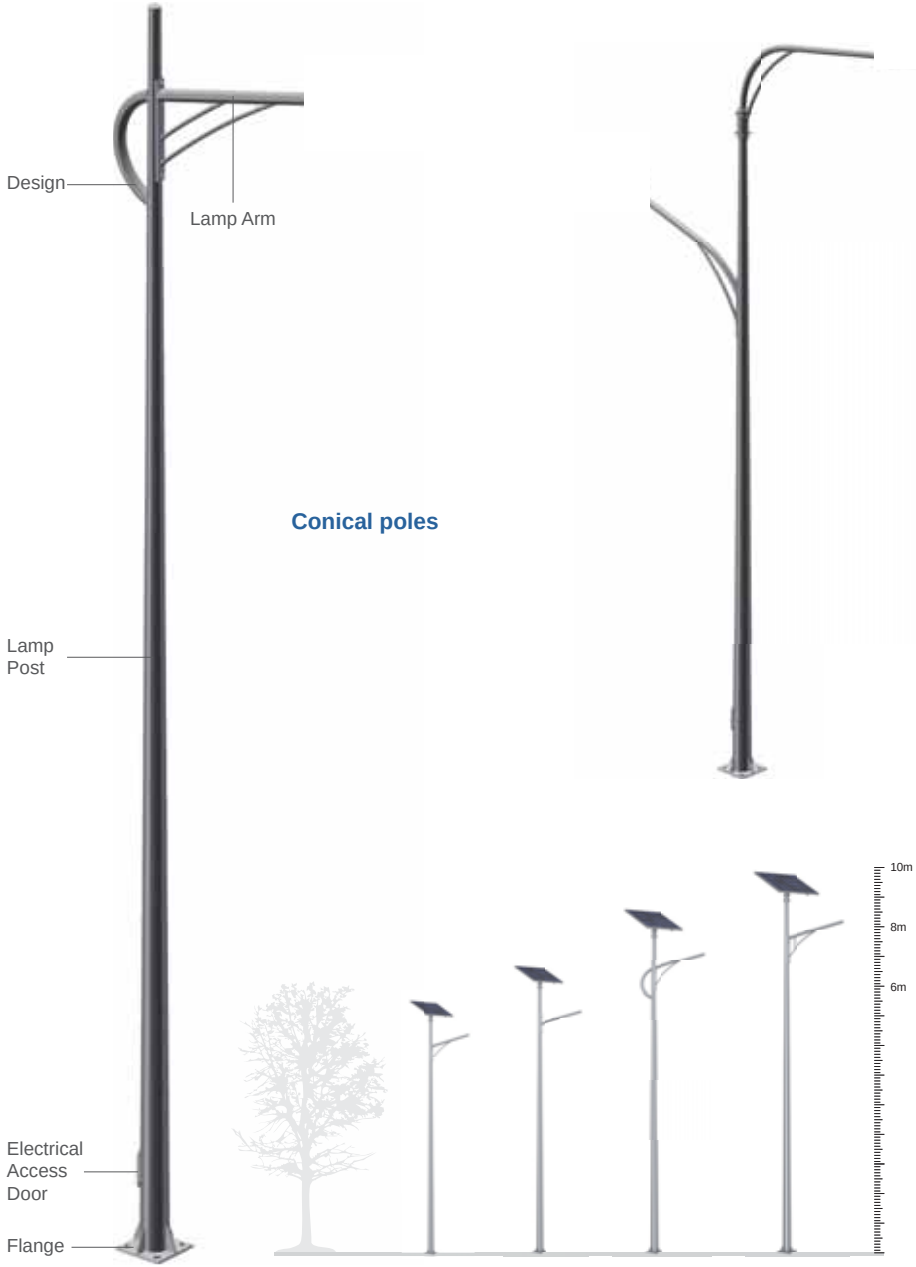
• Product Inspection

• Packaging and Shipping

Recommended light pole parameters



Height (mm)	Upper and bottom diameter (mm)	Thickness (mm)	Flange (mm)	Arm (mm)	Bearing area (㎡)	Suggested Foundation Kit (㎥)
6000	60-140	2.75	260*14	950*60	≤0.6	16*750
		3.00			0.6-0.8	
		3.25			0.8-1.0	
6500	60-140	2.75	260*14	950*60	≤0.6	16*750
		3.00			0.6-0.8	
		3.25			0.8-1.0	
7000	75-150	3.00	280*14	950*60	≤1.3	18*900
		3.25			≤1.5	
		3.50			≤1.5	
7500	75-175	3.00	300*14	950*60	≤1.3	18*900
		3.25			≤1.5	
		3.50			≤1.5	
8000	85-180	3.00	320*16	1100*60	≤1.3	20*1000
		3.25			≤1.5	
		3.50			≤2.0	
		3.75			≤2.0	
		4.00			≤2.6	
8500	85-180	3.00	320*16	1100*60	≤1.3	20*1000
		3.25			≤1.5	
		3.50			≤2.0	
		3.75			≤2.0	
		4.00			≤2.6	
9000	85-200	3.25	350*16	1100*60	≤2.0	20*1200
		3.50			≤2.0	
		3.75			≤2.6	
		4.00			≤3.0	
9500	85-200	3.50	350*16	1100*60	≤2.0	22*1200
		3.75			≤2.6	
		4.00			≤3.0	
10000	85-200	4.00	400*20	1400*60	≤2.6	24*1200
	90-220	4.50	400*20		≤3.0	24*1500
	100-235	5.00	500*20		≤4.0	24*1500*6
11000	90-220	4.00	400*20	1400*60	≤2.6	24*1200
	90-220	4.50	500*20		≤3.0	24*1200*6
	100-235	5.00	500*25		≤4.0	24*1500*6
11500	90-220	4.50	400*20	1400*60	≤2.6	24*1500
	90-220	5.00	500*20		≤3.0	24*1500*6
	100-235	5.00	500*25		≤4.0	24*1500*6



Conical poles

Small Traffic Monitor Poles

The main body is primarily constructed from high-quality carbon steel or galvanized steel pipes.
The surface undergoes dual corrosion protection treatment: hot-dip galvanizing followed by outdoor powder coating, ensuring resistance to outdoor exposure to rain, snow, and acid-alkali corrosion.
The pole features a tapered or constant-diameter design with precision welding techniques, guaranteeing structural strength and stability.

Material	Galvanized poles, steel poles (hot dip galvanized)
Recommended height(m)	3-4
Upper and lower diameters(mm)	76-140/89-140
Thickness(mm)	2.3/2.5/2.75
Flange Diameter(mm)	240*240*8/260*260*8/260*260*10
Arm Length(m)	0.5-1
Applicable Scene	For communities, parks, factories, and small squares

Middle Traffic Monitor Poles

Integrated with high-definition surveillance cameras, auxiliary lighting, and waterproof distribution boxes, select models also incorporate modules for public address systems, one-touch emergency alarms, and environmental monitoring.
Internal cable channels within the pole body enable concealed and integrated power supply and data transmission, eliminating safety hazards caused by exposed wiring.
The main body is constructed from high-quality carbon steel, treated with dual corrosion protection through hot-dip galvanization and outdoor powder coating to withstand harsh outdoor environments.
The pole features a tapered or constant-diameter design with high structural strength, ensuring stable operation during extreme weather conditions.

Material	Steel pole (hot dip galvanized)
Recommended height(m)	4-6
Upper and lower diameters(mm)	140/1651/180
Thickness(mm)	3.5/3.75/4
Flange Diameter(mm)	300*300*12/300*300*16/350*350*20
Arm Length(m)	1-2
Applicable Scene	Forrural roads, main road intersections, highway card entrances and park entrances

Large Traffic Light Poles

Large Traffic Light Poles refer to specialized support structures used on urban main roads, expressways, highway interchanges, and large intersections. They feature long cantilevers (typically ≥6m), high load-bearing capacity (multiple signal sets + surveillance/display screens), and strong wind/earthquake resistance. Unlike smaller poles on secondary roads, these structures often reach heights of 6–8 meters or higher and require heavy-duty concrete foundations. They serve as the core load-bearing components for intelligent traffic signal systems.

Selection Recommendations:
Standard arterial roads: Prioritize single cantilever L-type (6–10m arm length);
Large intersections: Double cantilever T-type;
Expressways/highways with spans > 20m: Gantry-type;
Coastal/chemical zones: Upgrade to hot-dip galvanizing + nano-composite coating, or select stainless steel materials.

Recommended height(m)	Poles Thickness(mm)	Poles Flange Diameter(mm)	Arm Length(m)
5-6	4.5-5	500*500*20/550*550*20	1-1.6
7-8	5-6	500*500*20/550*550*20/600*600*20	1-1.9
9-12	6-8	600*600*20/600*600*25/700*700*20	1-2.2
13-16	10	700*700*25/750*750*25/800*800*25	1.1-2.6

Arm Thickness(mm)	Arm Flange Diameter(mm)	Diameter tube main pole(mm)
4-4.5	320*320*16/320*320*18	219, thickness 4.5~5. Cross arm 120 diameter tube + 100 square tube, thickness 4.
4.5-5	350*350*18/350*350*20	273, thickness 5~6. Cross arm 140 diameter tube + 120 square tube, thickness 4-4.5-5.
6-8	350*350*20/400*400*20	273, thickness 8. Cross arm 152 diameter tube + 120 square tube, thickness 5-6.
6-8	400*400*20/450*450*20	325, thickness 8~10. Cross arm 180 diameter tube + 150 square tube, thickness 6-8.

Material	Hot dip galvanized
Pole type	Diameter square tube
Applicable Scene	For main road entrances

Frame Type Large Traffic Light Pole

Frame-type (also known as portal-type) large traffic signal poles feature a portal steel structure composed of dual columns and single/dual crossbeams spanning the entire roadway width. These heavy-duty support structures serve wide intersections, urban expressways, and highway toll stations/interchanges, forming the core infrastructure of intelligent transportation systems.

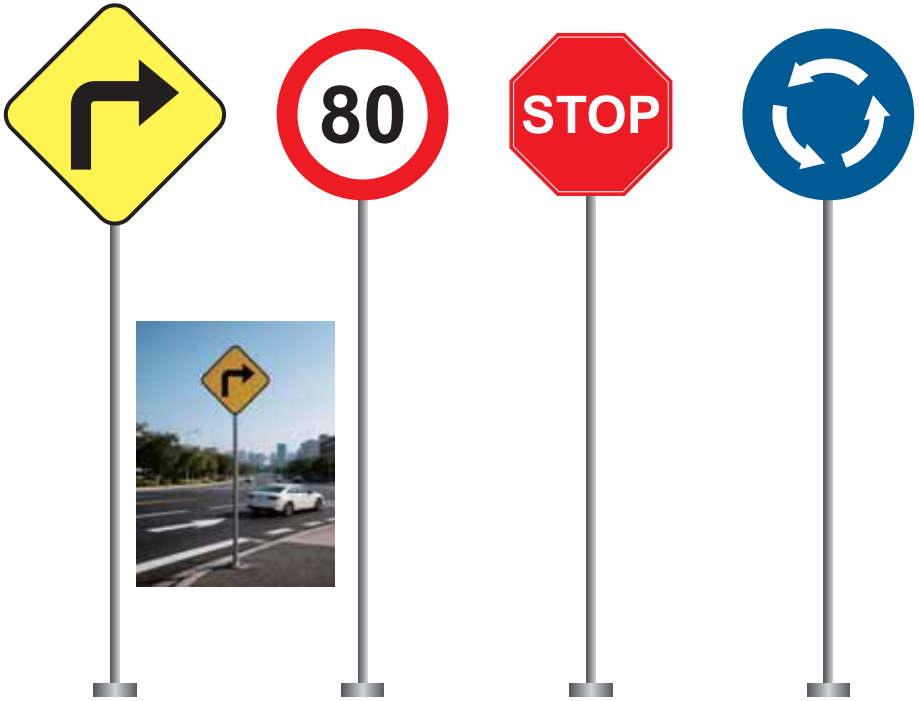
Recommended height(m)	5-8	8-10
Poles Thickness(mm)	5	6-8
Poles Flange Diameter(mm)	600*1000*20	700*1200*20
Arm Length(m)	5-10	5-10
Arm Thickness(mm)	4	5-6
Arm Flange Diameter(mm)	180*800*16/180*800*18	200*800*18/200*800*20

Material	Galvanized sheet
Pole type	Diameter square tube
Applicable Scene	For small road intersections, intersections with too many pedestrians, road intersections

Crosswalk Lights

Engineering plastic or aluminum alloy housing, waterproof, dustproof, anti-aging, and impact-resistant.
High-brightness LED chips with low power consumption, long lifespan, and extended visibility range.
Features a lens + shroud design for clear daytime visibility and glare-free nighttime operation.
Constant current drive with wide voltage input, lightning protection, surge protection, and stable reliability.
Compatible with pole mounts, cantilever arms, and clamps for installation on signal poles, columns, or enclosures.

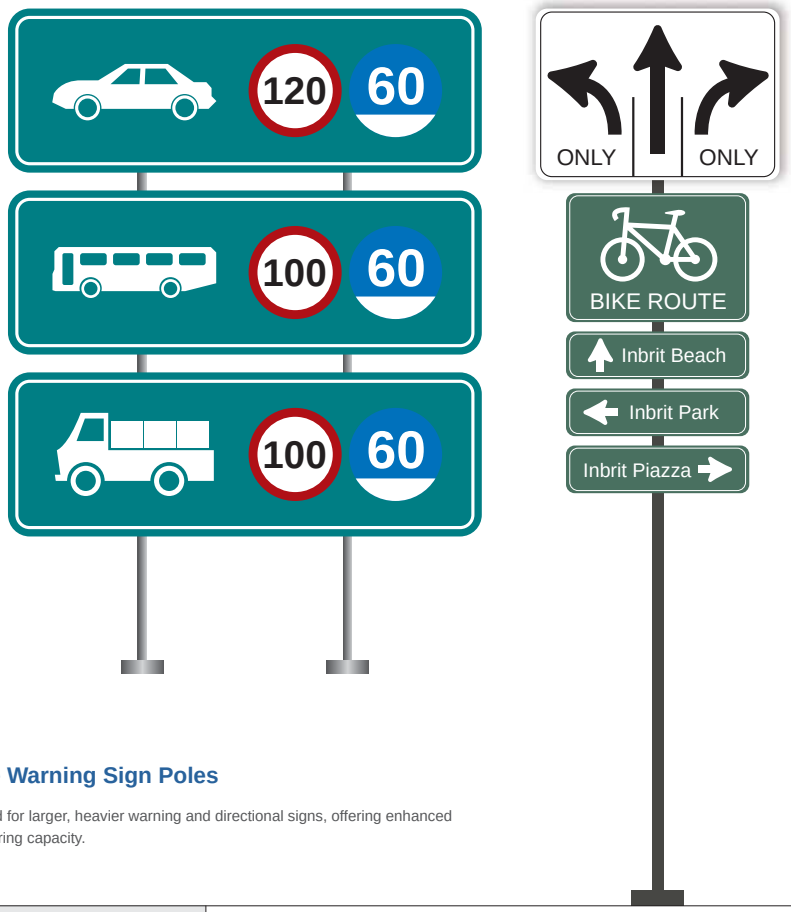
Recommended height(m)	3-4
Poles Thickness(mm)	3-4
Poles Flange Diameter(mm)	320*320*16/320*320*18/350*350*18



Warning Sign Poles

Warning sign poles are primarily used for mounting and supporting road warning signs, featuring a simple structure and easy installation.

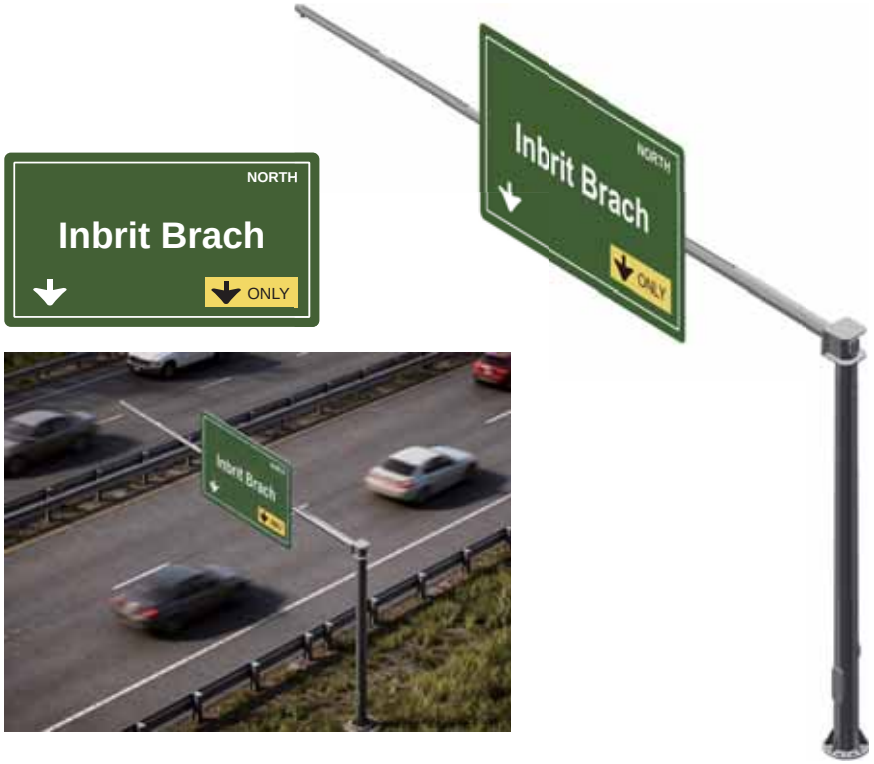
Recommended Height(m)	2.5-4
Pole(mm)	Diameter tube 76/89/104/140mm
Thickness(mm)	3-4-5
Flange Diameter(mm)	350*350*16/350*350*18/350*350*20
Applicable Scene	For rural roads, highway speed limits, bridge weight limits.
Requirement	Small reflective film, mainly for warning purposes.



Large Warning Sign Poles

Designed for larger, heavier warning and directional signs, offering enhanced load-bearing capacity.

Recommended Height(m)	4-6
Pole(mm)	Diameter tube 121/165/180mm
Thickness(mm)	5-6
Flange Diameter(mm)	350*350*20/400*400*20/500*500*20
Applicable Scene	For national highway, expressway
Requirement	Large & medium reflective film(large quantity), mainly used for warning purposes



L Shaped Sign Poles

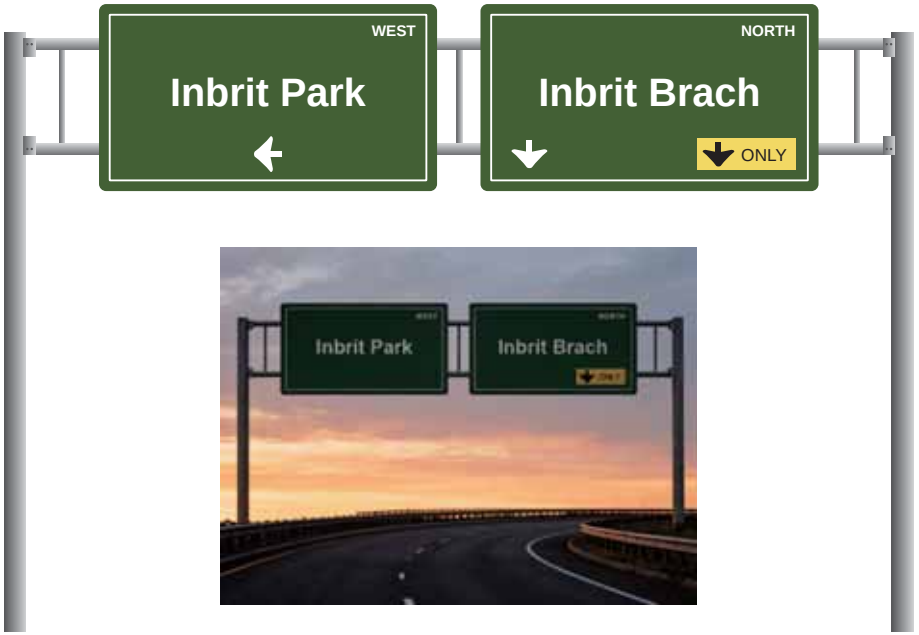
Also known as a single cantilever sign pole, it is the most commonly used cantilever sign pole on roads.

Recommended Height(m)	7.5
Pole(mm)	Diameter tube 180/219/273mm
Pole Thickness(mm)	6-8
Pole Flange Diameter(mm)	600*600*20/700*700*20/700*700*25
Arm(mm)	Diameter tube 102/120/140/160mm
Arm Thickness(mm)	5-6
Arm Flange Diameter(mm)	350*350*20
Applicable Scene	For rural roads, national roads, expressways
Requirement	Medium & small reflective film(large quantity), mainly used for warning purposes

F & Multi-F Shaped Sign Poles

The F-shaped sign pole features a dual cantilever structure, while multiple F-shapes form a multi-cantilever combination.

Recommended Height(m)	7.5-8.5
Pole(mm)	Diameter tube 273/299/325/377mm
Pole Thickness(mm)	8-10-12
Pole Flange Diameter(mm)	800*800*20/800*800*25
Arm(mm)	Diameter tube 140/160/180mm
Arm Thickness(mm)	5-6
Arm Flange Diameter(mm)	350*350*20/400*400*20/450*450*20mm
Applicable Scene	For national roads, expressways
Requirement	Large & medium reflective film(large quantity), mainly used for warning purposes

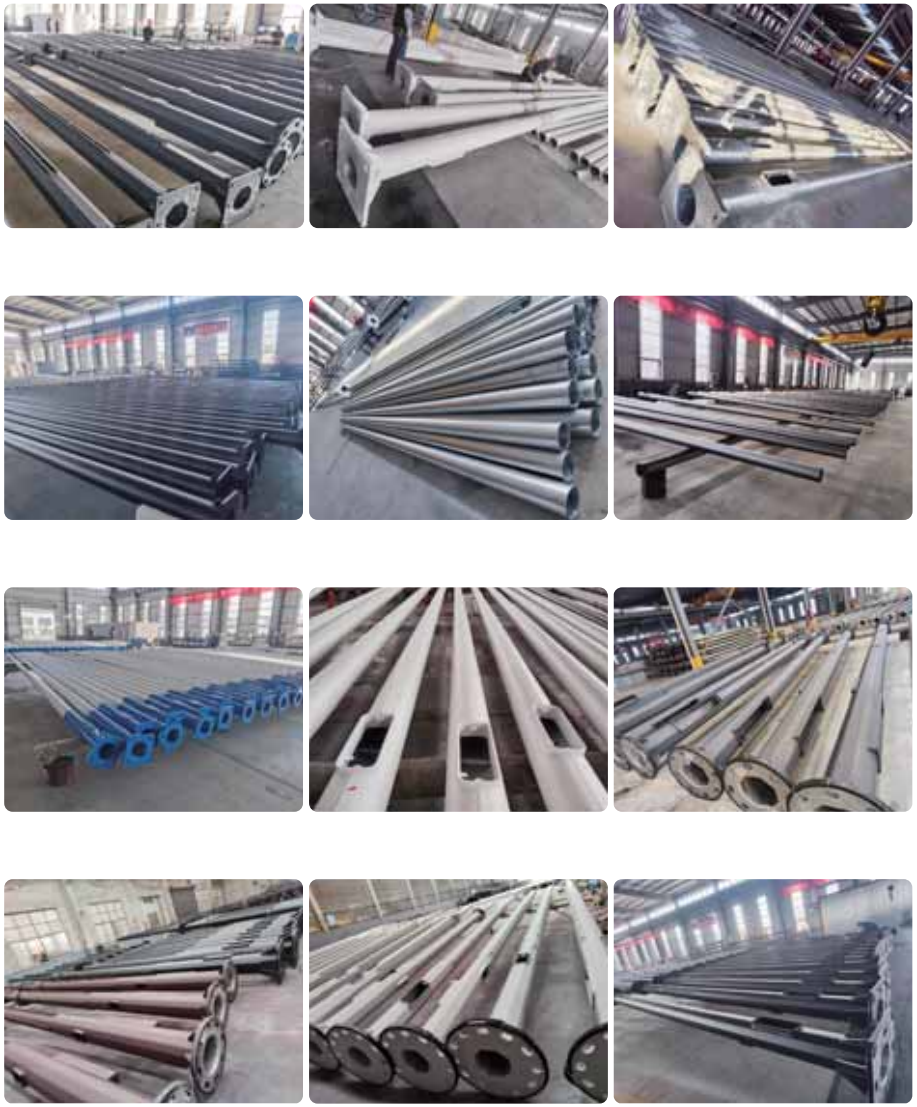


Gantry Type Sign Poles

Also known as a frame-type/road-spanning sign pole, it spans the entire roadway. Constructed with heavy-duty steel and fully hot-dip galvanized for extended service life.

Recommended Height(m)	8.5
Pole(mm)	Diameter tube 325/377mm
Pole Thickness(mm)	10-12
Pole Flange Diameter(mm)	700*700*25/800*800*25/700*700*30
Arm(mm)	Diameter tube 120/140/160/180mm
Arm Thickness(mm)	5-6
Arm Flange Diameter(mm)	400*400*20/400*400*25/450*450*25/500*500*25mm
Applicable Scene	For national roads, expressways
Requirement	Large reflective film(large quantity), mainly used for warning purposes

Finished Product Display



*Light pole pictures in our factory.

Outdoor Street Lights Cases

Multifunctional Poles Cases

High Mast Cases