

STREET LIGHT

SL

DATASHEET



The SL Series is a high-performance, ultra-flexible street lighting solution designed for long-lasting performance.

Constructed with high-pressure die-cast aluminum and featuring a tempered glass optical surface, it ensures excellent durability and reliability. The luminaire supports ZHAGA and NEMA sockets, offering versatile control options including 0-10V, DALI, and custom dimming profiles.

Features

- Die-cast aluminum housing for efficient heat dissipation; clean design minimizes dust and water accumulation.
- Multiple light distribution options for professional road lighting across various applications.
- Compatible with NEMA and ZHAGA smart control systems.
- Tool-less cover opening with automatic power-off when opened.
- Tempered glass optical surface for enhanced durability.
- Adjustable beam angle: $\pm 15^\circ$ with 5° minimum adjustment scale.

Applications

- Road & highway lighting
 - Urban road & street lighting
 - Residential area lighting
 - Parks & perimeter lighting
 - Parking lot lighting
 - Riverside & jogging track
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Specification Information

Optical parameters

Model No.	SL1-40W	SL1-60W	SL2-80W	SL2-100W
Power	40W	60W	80W	100W
Lumen	6600Lm	9900Lm	13200Lm	16500Lm
Model No.	SL4-150W	SL4-180W	SL6-240W	SL6-300W
Power	150W	180W	240W	300W
Lumen	24750Lm	29700Lm	39600Lm	49500Lm
Efficiency	165lm/W(@ 4000K CRI70)			
CCT (Typ. K \pm 10%)	1800K/ 2700K/ 3000K/3500K/4000K/5000K/5700K/6500K			
CRI (Ra)	≥ 70			
SDCM	≤ 6			
Beam angle	Type I, Type II , Type III, Type IV, Type V is optional			

Electrical parameters

Model No.	SL1-40W	SL1-60W	SL2-80W	SL2-100W
	SL4-150W	SL4-180W	SL6-240W	SL6-300W
Input voltage	AC100-240V /220-240V 50-60Hz			
Power Factor	0.95			
Surge Protection	SPD 10KV/20KV is optional.			
Dimmable	0-10V, PWM, Timer dimming (Optional)			

Mechanical parameters and key materials

Model No.	SL1-40W	SL1-60W	SL2-80W	SL2-100W
	SL4-150W	SL4-180W	SL6-240W	SL6-300W
Housing	High-pressure die-cast aluminum RAL9023 gray			
Lens	UV-resistant polycarbonate			
Cover	Tempered glass			
LED Driver	MOSO/INVENTRONICS/SOSEN			
LED Brand/Model	EDISON 3030/5050			

General parameters

Model No.	SL1-40W	SL1-60W	SL2-80W	SL2-100W
	SL4-150W	SL4-180W	SL6-240W	SL6-300W
Mounting	Side entry or post-top			
Operating Temperature	- 20 ~ + 50°C			
Storage humidity	10% ~ 85%			
Protection	IP66, IK09			
Electrical class	CLASS I or CLASS II			
Safety Approval	CE, CB, ENEC, ENEC+ (70W 130W 180W)			
Lumen maintenance	100,000 hours at L70			

Accessories



60-76 adaptor



Wiring Connector(IP66)



Input cable



Photocell

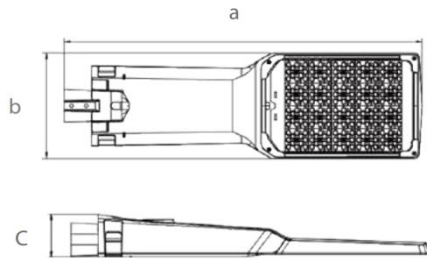


NEMA receptacle



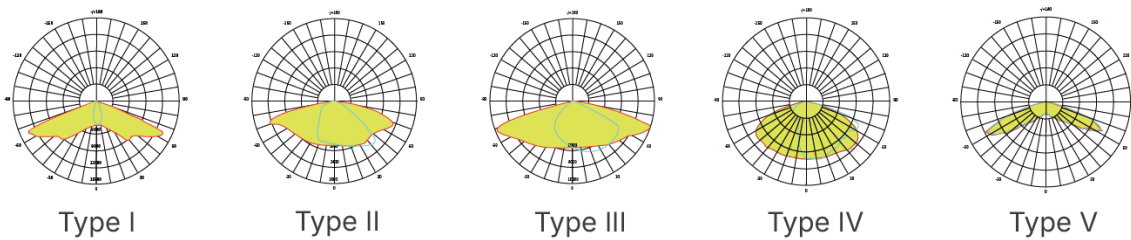
ZHAGAreceptacle

Dimensions



Model No.	SL1	SL2	SL4	SL6
a	514mm	578mm	770mm	967mm
b	210mm	235mm	235mm	340mm
c	111mm	101mm	101mm	142mm
Pole diameter	55~60mm	55~60mm	55~60mm	55~60mm
Pole diameter (with adaptor)	48~76mm	48~76mm	48~76mm	48~76mm

Light Distribution Curve



*Other optical type is available according to special request.

Packaging Information

Product	Packing	Quantity	N.Weight	G.Weight	Dimension (mm)		
					Length	Width	Height
SL1	Out carton	4 EA	12.4kg	15.4kg	545	485	330
SL2	Out carton	1 EA	4.8kg	5.6kg	645	290	160
SL4	Out carton	1 EA	6.4kg	7.4kg	830	290	160
SL6	Out carton	1 EA	10.5kg	11.8kg	1065	440	240

User Manual(SL1)

1. Release both latches on the left and right sides of the luminaire

2. Open the top cover of the luminaire and then pull down the bracket to hold the cover.

3. Loosen the M12 nuts and waterproof cable gland.

4. Guide the supply cable through the spigot and the waterproof cable gland into the power compartment.

5. Loosen the screws on the terminal block and connect the cable wires to the terminal block.

For 1-10V dimming/DALI DALI Control wiring. Please contact your supplier.

Width: Less than 4mm

6. Tighten the screws on the terminal block and waterproof cable gland.

7. Loosen hex socket screws and cross screws.

8. Loosen the shank screw (Cannot be completely loosened)

9. Select side-entry or post-top installation according to the actual situation.

10. Loosen screws on spigot with hex wrench and slide the spigot onto the pole.

Note: if you choose side-entry installation. Please make sure that the bubble of the spirit level is in the middle position.

11. Adjust the spigot to meet the desired incline angle.

12. Tighten the shank screw.

Take the shorting cap out of the box and install it on the NEMA base. Then tighten it clockwise on the NEMA base.

Optional

post-top installation

side-entry installation

User Manual(SL2 SL4)

1. Release both latches on the left and right sides of the luminaire.

2. Open the top cover of the luminaire and then slide down the bracket to hold the cover.

3. Loosen the M20 nuts and waterproof cable gland.

4. Guide the supply cable through the spigot and the waterproof cable gland into the electric compartment.

5. Loosen the screws on the terminal block and connect the cable wires to the terminal block.

For 1-10V dimming/DALI control wiring, Please contact your supplier

CLASS I

CLASS II

6. Tighten the screw of the terminal block and the waterproof cable gland.

7. Slide up the bracket and close the top cover. Tighten both latches, ensure the top cover closed and there are no gaps and seal is correctly aligned.

8. Loosen the shank screw (cannot be completely loosened)

9. Select side-entry or post-top installation according to the actual situation.

10. Loosen screws on spigot with hex wrench and slide the spigot onto the pole.

M10*25 hex socket flat end set screw

Note: If you choose side-entry installation, please make sure that the bubble of the spirit level is in the middle position.

11. Adjust the spigot to meet the desired incline angle

12. Tighten the shank screw

Take the shorting cap out of the box and install it on the NEMA base, then tighten it clockwise on the NEMA base.

Optional

post-top installation

side-entry installation

User Manual(SL6)

1. Pull the buckles on both sides of the lamp outward with your hand

2. Support the rear cover with the support rod to facilitate subsequent operations

3. Loosen the M12 nut and prevent Water joint

4. Pass the input line through the sleeve, pass it through the waterproof joint, and enter the power supply compartment

5. Connect the input line to the circuit breaker terminal block

For 1-10V dimming/DALI Control line, please contact your supplier Business consultation.

6. Tighten the short-circuit terminal block and waterproof joint screws.

7. Lower the support rod and close the rear cover, close the clips on both sides, and ensure that the rear cover is tightly closed.

8. Loosen the shank screw (cannot be completely loosened)

9. Select side-entry or post-top installation according to the actual situation

10. Loosen screws on spigot with hex wrench and side the spigot onto the pole

Note: If you choose side-entry installation. Please make sure that the bubble of the spirit level is in the middle position

11. Adjust the spigot to meet the desired incline angle

12. Tighten the shank screw

Remove the short-circuit cap from the box and install it on the NEMA base, then clockwise on the NEMA base Tighten the needle

Environmental Compliance

1. The luminaire shall be installed and maintained by qualified electrician and wired in accordance with the latest IEC electrical regulations or national requirements.
2. To prevent the risk of electric shock, turn off power supply before installation. It is not permitted to connect the luminaire to high-voltage AC supply line directly.
3. The lighting fixtures comply with local standards
4. The input voltage and current must meet the requirements. The supplier will not be responsible for the consequences for inappropriate operation.
5. The light source contained in this luminaire shall only be replaced by the manufacturer or his service agent or a similar qualified person.

Datasheet History

Versions	Description	Release Date
1.0	Establish a Datasheet.	2023/11
2.0	Updated format, enhanced visual effects, and size adjustments	2025/12/17

About EDISON OPTO

Edison Opto provides comprehensive LED and solid-state lighting products from LED Component, Light Module, UV / IR LED, LED sensing, Horticulture and Automotive Lighting. With a view to improve R&D process, Edison Opto develops the vertical platform on TEMOTM (Thermal. Electrical. Mechanical. Optical) to ensure the quality of products and services; Furthermore, Edison Opto creates LDMSTM (LED Design Manufacturing Service) from light source to luminaire manufacturing, to serve our customers a quality experience of customized solutions.

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