



EIC® LED STREET & PUBLIC LIGHTING SOLUTIONS

CATALOG

(Swan Series)

General Features and Applications

EIC High Power LED Street Light is a new solution for traditional street illumination. Direct connection to 85~265VAC AC Power, the LED Street Light embodying state-of-the-art high power LED technology is a green "environmental friendly" product.

- Street light optics
- > CITIZEN COB LED chips
- High Transmission glass lens with rectangular Beam
- > Reduced excessive lighting and light pollution
- Higher efficacy, up to 90 lm/W, more energy and money saving
- > Unique *HEAT ENGINE* technology, Tc≤45℃
- > Durability, IP67 driver, IP66 full sealed housing
- Aero superior aluminum alloy body, super conductive Nano powder coating
- > Longer lifespan≥50,000hrs, low maintenance
- RoHS compliant

For road and area lighting: e.g. roads, streets, industrial parks/plant, packing lots, path, driveways and other outdoor public lighting

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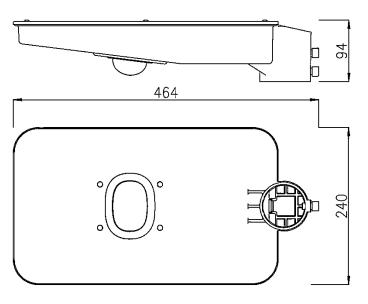
No. : SCLD04503AI

Model: SC-LDO4503 45W Swan Series

Dimensions



Drawing



Technical Specifications

Model: SC-LD04503

- Light type: LED street/public lights
- Input Voltage: 100-240v AC
- Input Power: 45W*
- Beam Angle: 70*120/70*140deg*
- > LED Source: CITIZEN COB LED
- > Case Temperature: $<45^{\circ}C$ (Ta=25°C)

- \succ Working Temperature: -30°C \sim 60°C
- > Color Temperature (CCT): 3000/5000
- > IP Rating: IP67 driver, IP66 whole lamp
- > Life Span: 50,000 hrs
- Net weight: 4.5kg
- > High quality, robust aluminum heat sink

Model	LEDs	Color	ССТ (К)	Luminous Flux* (lm)	Light Efficacy* (Im/W)	Color Rendering Index* (CRI: Ra)
SC-LD04503	1	Warm white	3000	3825	85	80
	1	Neutral white	5000	4095	91	65-70

Note: * ±10% will be allowed

Light sensor can be added

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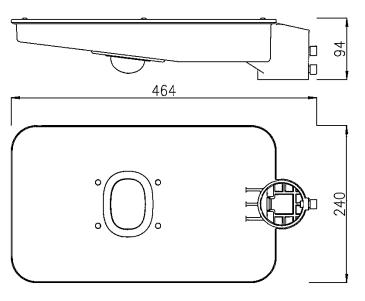
No. : SCLDO4503AI

Model: SC-LDO6503 65W Swan Series

Dimensions



Drawing



Technical Specifications

Model: SC-LD06503

- Light type: LED street/public lights
- Input Voltage: 100-240v AC
- Input Power: 65W*
- Beam Angle: 70*120/70*140deg*
- > LED Source: CITIZEN COB LED
- Case Temperature: <45°C (Ta=25°C)</p>

- \succ Working Temperature: -30°C \sim 60°C
- > Color Temperature (CCT): 3000/5000
- > IP Rating: IP67 driver, IP66 whole lamp
- > Life Span: 50,000 hrs
- Net weight: 4.5kg
- > High quality, robust aluminum heat sink

Model	LEDs	Color	ССТ (К)	Luminous Flux* (lm)	Light Efficacy* (Im/W)	Color Rendering Index* (CRI: Ra)
SC-LD06503	1	Warm white	3000	5525	85	80
	1	Neutral white	5000	5915	91	65-70

Note: * ±10% will be allowed

Light sensor can be added

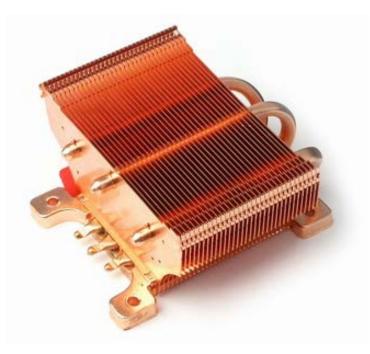
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Unique Features and Advantages

a) Unique HEAT PIPE and VAPOR CHAMBER Technology



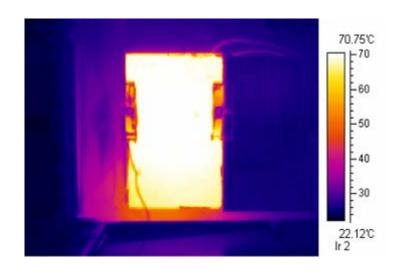
Swifter heat diffusion, subtle temperature deviation

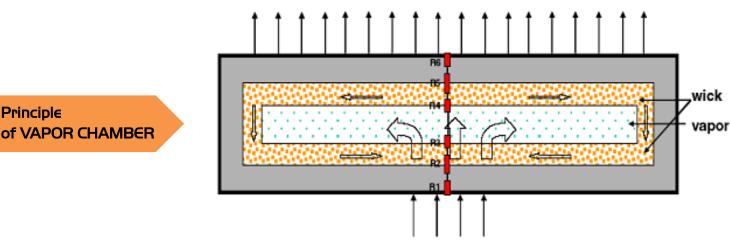
The whole shell as heat sink, less weight and cost

 Phase change loop cooling system, quicker heat diffusion

· No fin heat sink, the housing applied for heat dissipation

- Lower junction temperature: Tc≤45 °C
- Higher fixture luminous efficacy: 90~100lm/W
- Less lumen depreciation: <1% (3,000hrs tested)
- Longer lifespan >50,000hrs
- Less weight: minimum 4.5kg





heat source

Principle

Phase change cooling system

Even heat distribution on housing

Higher thermal conductivity

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b) High Efficient LIGHT ENGINE



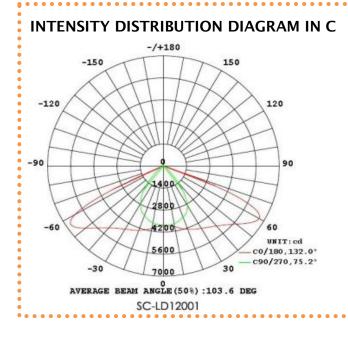
- · Imported COB chips
- · High efficacy, up to 120lm/W
- \cdot Stable lamination
- · No overlapped images

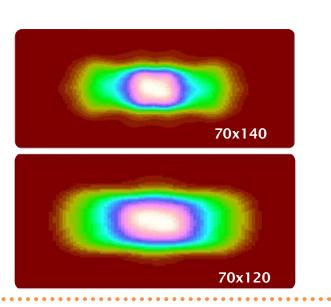


- \cdot Self patented lens
- 70°X120°/70°X140° beam angle
- \cdot High Transmission
- \cdot Rectangular Beam
- · Reduced glare and increased visibility



- World famous drivers
- · High efficiency
- · IP67, safety and reliability
- · Easy replacement

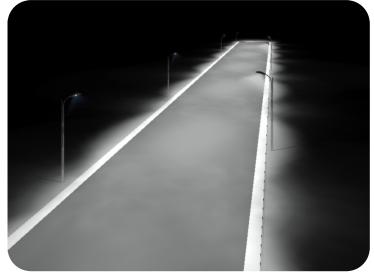






Traditional HPSL Lighting Simulation

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EIC LED Street Lighting Simulation

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No. : SCLDO4503AI





Before

After

Better light distribution and less light pollution

Higher color rendering index

- No light wasted
- Brighter and clearer visibility
- Less power consumption

c) Retrofit Capability

Our product have the capability to replace current HPSL. The following table listed is the equal retrofit comparason, ex. Our 45W LED street light can be used to replace 100-150W HPSL. The replacement will save 60%-75% of energy.

 \triangleright

ltem	Traditio	nal HPSL	EIC LED Street Light		
	Nominal Power (W)	Real Power (W)	Nominal Power (W)	Real Power (W)	
Lamp a	400W \sim 500W	460W~580W	180	180	
Lamp b	$350W \sim 450W$	400W~510W	150	150	
Lamp c	$250W \sim 400W$	290W~460W	120	120	
Lamp d	$250W \sim 400W$	290W~460W	90	90	
Lamp e	$150W \sim 250W$	180W~290W	65	65	
Lamp f	$100W \sim 150W$	110W~180W	45	45	
Lamp g	70W \sim 100W	80W~110W	30	30	

Note: the replacement is a general retrofit comparason. The retrofit will be proceeded after previewing the actual requirements and condition or results expected to achieve.

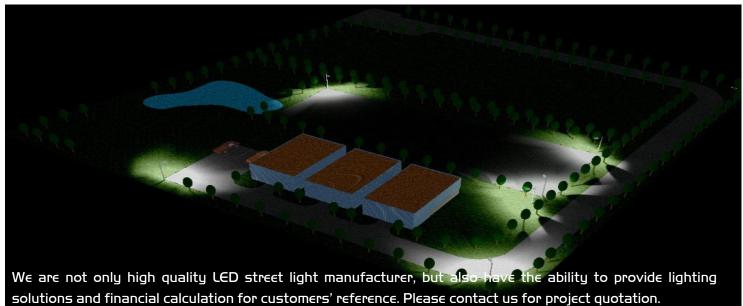
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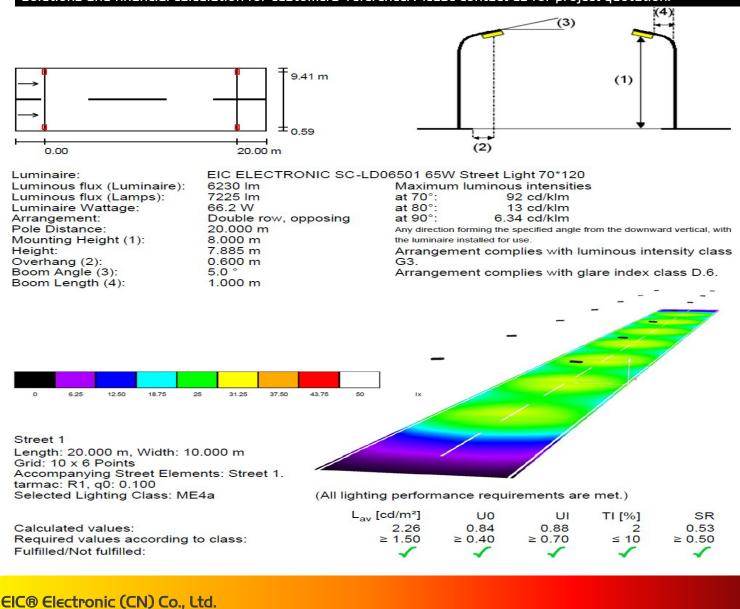
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d) Professional Lighting Solutions





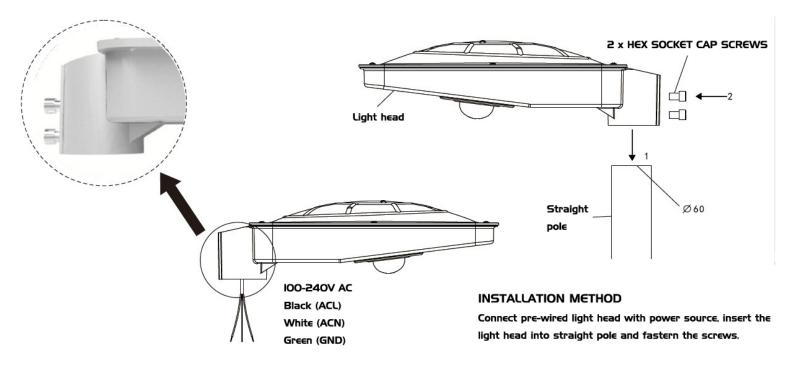
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e) Installation



Model	Power	Suggested Mounting Height
SC-LD03003	30	3-5m
SC-LD04501	45	6-8m
SC-LD06501	65	6-8m
SC-LD09001	90	6-8m
SC-LD12001	120	8-10m
SC-LD15001	150	8-10m
SC-LD18001	180	≥10m

f) Certificates and Patents

Total 41 patent applications were submitted

- 20 passed patents
- 21 pending patents
- > 1 international patent application





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No. : SCLD04503AI

All LED street lights have passed certificates from:

- > European Standard: CE, RoHS
- > American Standard: FCC, UL(pending)
- > Australasia Standard: C-tick, SAA
- > Japanese Standard: PSE, IC
- ISO quality system

Other declarations



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