

# 100W LED Tunnel Light Technical Specification



**Name: 100W tunnel light**  
**Model: SD2-100W**

# Product description

## Material

- Patented aluminum alloy heat dissipation structure, high quality aluminum processing technology, special surface treatment technology, high brightness SMD LED light source, high efficiency LED power supply.

## Applicable place

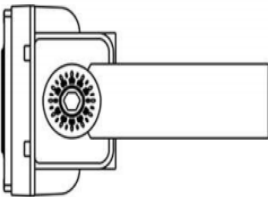
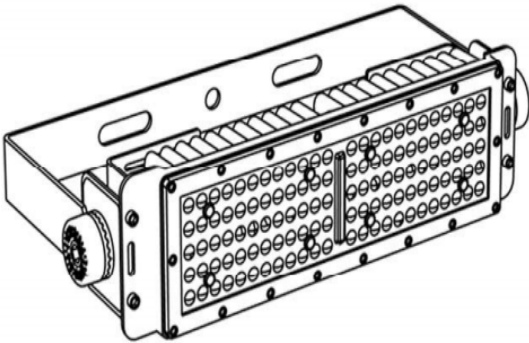
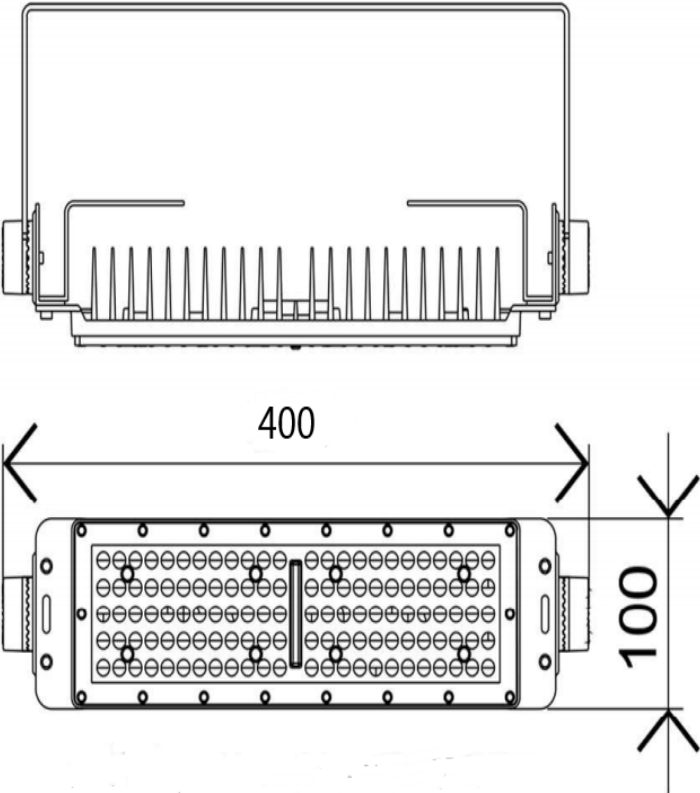
- Suitable for tunnel lighting, highway toll stations, floodlighting, landscape lighting, square stadiums and other lighting venues.

## Characteristics

- The high-efficiency imported Lumileds LED light source has the advantages of high brightness, high thermal conductivity, best heat resistance, low light decay, pure light color, no ghosting, stable quality and so on.  
It adopts independent pure aluminum module connection design, which is convenient for maintenance and disassembly.
- The unique air convection heat sink design effectively diffuses heat conduction and has high heat dissipation efficiency, thereby reducing the temperature effect in the lamp body and ensuring the life of the light source and the power source.
- It is extremely light in weight and has high safety in product installation and use.
- Environmental protection and energy saving, no radiation, no lead, mercury and other pollution elements, no pollution to the environment. dust-proof
- High color rendering performance, the real color rendering is more real. Various light colors are available to meet the needs of different environments, eliminating the depression caused by the high or low color temperature of traditional lamps, making the vision more comfortable and improving work efficiency.
- Constant current and constant voltage control, the applicable voltage width (AC90V-305V) overcomes the instability caused by ballast, noise pollution and light, and avoids the stimulation and fatigue brought to the eye during work.
- The special surface treatment process is adopted, the appearance is novel and novel, the installation is simple, the disassembly is convenient, and the application range is wide.  
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# Product size chart

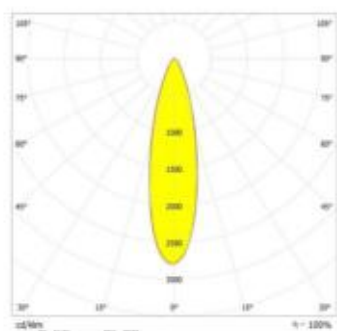
Label unit: mm



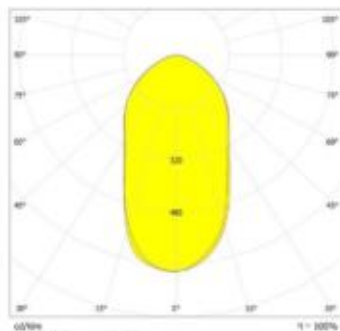
## Product specification table

Model	SD2-100W
Input voltage	90-305 VAC, 50/60 Hz
LED light source	Philips Lamp beads
Number of LEDs	120 pcs * 1
LED power	100W
LED luminous efficiency	150-160lm /W
System luminaire luminous efficiency	$\geq 130$ lm/W
LED lamp initial luminous flux	13000 Lm
Illuminance uniformity	$> 0.8$
Correlated color temperature	2200K-6500K
Color rendering index	$Ra \geq 70$
Light distribution curve	Symmetrical/rectangular spot
Light distribution	LED+optical lens
LED junction temperature rise	$\leq 70^{\circ}\text{C}$ (@ $T_a=30^{\circ}\text{C}$ )
Working temperature	$-25^{\circ}\text{C} \sim 55^{\circ}\text{C}$
Storage ambient temperature	$-25^{\circ}\text{C} \sim +65^{\circ}\text{C}$
Protection level	IP65
net weight	2.65KG
Light source life	$> 50000\text{H}$
Lamp body color	OEM

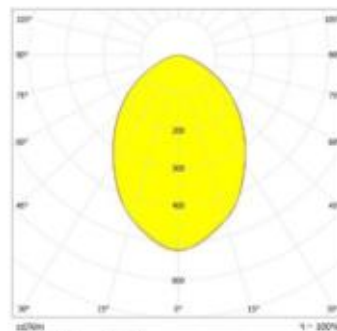
# Light distribution curve



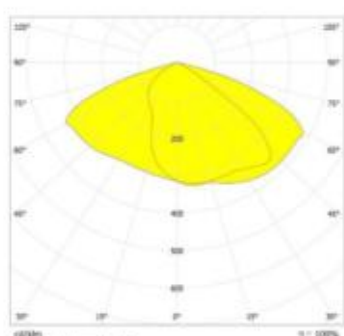
30°



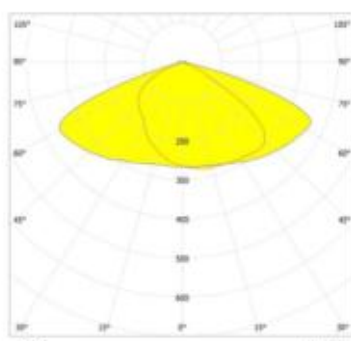
60°



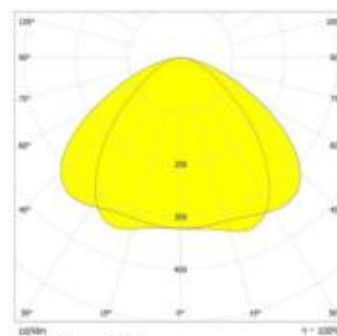
90°



80°x150°



90°x120°



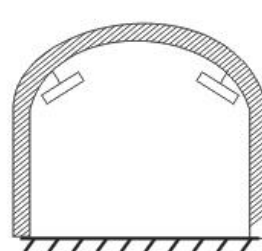
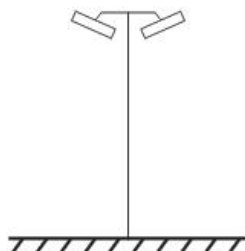
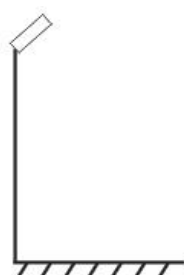
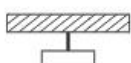
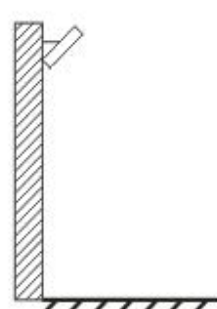
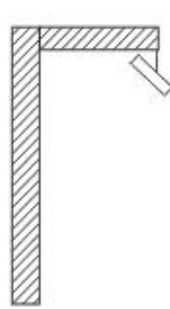
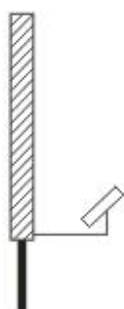
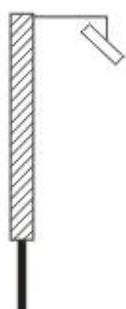
90°x120°

Note: LED optical rotation performance of different color temperature is deviated, the deviation value is  $\leq 5\%$ .

The light source test data is based on Philips Luxeon LED 5500K.

Note: If you need IES file, please contact our sales department. Use different lighting angle according to the use environment.


# Installation method



# Installation Notes

- Remove the tunnel light body from the box.
- The lamp body is calibrated to support the steel frame structure, placed smoothly, and the screws are locked; when installing the lamp, the wiring and wiring are closed to prevent leakage.
- Please find a professional electrician to install. The three-core cable connection method:  
brown line is the live line, the blue line is the zero line, and the yellow/green line is the ground line.

## Maintenance statement:

- Make sure that the power has been turned off before maintenance.
- Regularly clean the lens cover of the floodlight to maintain good light transmission.
- In the environment where the dust is relatively large, the ash of the floodlight casing and the radiator can be periodically
- Dust is cleaned to maintain good heat dissipation.
- Clean with a rag or rinse with water.
- When replacing the power supply, you can directly open the back cover with a screwdriver and take out the AC three-core cable.  
The line is “L” on the brown corresponding power supply, blue corresponds to “N” on the power supply, yellow green or yellow corresponds to “”, the red line of the DC power line corresponds to the positive pole of the power supply, and the black line corresponds to the negative pole of the power supply. Do not reverse.

## Packing

