

# LTHSD2 – High Power LED Tunnel Light



## Features / Benefits

- ▼ **Low Power Consumption** - 56W
- ▼ **High Brightness** - Up to **4,200 Lumens**, **LASTS UPTO 8 TIMES LONGER** than the incandescent lamps
- ▼ **Long Life** - Up to 50,000 Hours, adopted the PWM constant current power, protect the LEDs efficiently
- ▼ **Robust Design** - shock and vibration resistant
- ▼ **Light Beam** - Low heat generation/No UV, The integrated lamp cup & radiator, scatter heat quickly
- ▼ **Easy Installation** - With the adjustable hoop, it's easy to install on any kind of lamp pole
- ▼ **Save Money** - Reduces labor and maintenance costs
- ▼ **High Efficiency** – Power Factor>90%, THD<9

### Specifications:

1	<b>Revolutionary Photometric Design-The world's first dedicated optical system(rectangular beam focusing lens):</b> Reasonable control of the light distribution, spot rectangular beam pattern ,ensures an ideal uniformity of brightness on the road surface, eliminate the glare and keeps the LED lighting efficiency on a high level, no light pollution beyond intended illumination area.
2	<b>Unique Integrated Lens and Lampshade Design:</b> Arrayed Lens plays a protective and spot light role, reduces the loss of light, also reduces the weight of the product and enable simplified structure, to keep the product stable.
3	<b>Creative Design of the Radiator and Lamp holder Integration:</b> Fully protects LED life and heat dissipation requirements, satisfies the structure and design needs of LED Lights , which the most distinctive features of LED Lights(see page 5 attached pictures).
4	<b>Unique Thermal slide-shell design, assembled with simple and convenient combination:</b> Slide lights with composite shells, the installation forms dynamic, simple and convenient combination of lamps. Easy for dismantling and maintenance, save maintenance costs as the job is simplified
5	<b>Intelligent current control, achieve a precision constant current:</b> Each LED module can implement intelligent current control, whenever network power fluctuations occur it is able to achieve the precision constant current, ensured the continuous operation of the LED's.
6	<b>Complete LED Driver protection:</b> Drive circuit with over-voltage, over-current and catastrophic protection, The LED will be safe even the circuit is broken;
7	<b>No Adverse Glare:</b> Eliminate the glare caused by the adverse ordinary lights glare and visual fatigue sight interference, improve driving safety, reduce the incidence of traffic accidents, fully embodies the spirit of "People-oriented Technology" in this product;
8	<b>NO light Pollution:</b> Light distribution controlled strictly and will not bring any light out of the request area;

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9	<b>No High-voltage, No Dust Adsorption:</b> Eliminates High Voltage, self-cleaning of dust which causes the lampshade become dark, reduce the brightness.
10	<b>No High-temperature, No Aging Yellow Lampshade:</b> Eliminate the baking which cause traditional lampshade turn yellow, shortened life expectancy and decrease the brightness;
11	<b>Start Without Delay:</b> Reach the normal brightness directly and do not have any delay, eliminate the long process starting of the traditional tunnel lights;
12	<b>No Strobe Flashing:</b> Eliminate the visual fatigue which caused by the strobe lights of the traditional tunnel lamps;
13	<b>Impact Resistance, Shock-proof, Without Ultraviolet (UV) and Infrared (IR) Radiation:</b> No filament and glass frames, avoid break of the traditional lamp, without harm to the human body;
14	<b>High Color Index, Nice Coloration:</b> To show the true colors and brighter, good identifiably;
15	<b>Multiple Color Temperature Options:</b> Color temperature to meet the needs of different occasions, eliminated the low color temperature of the sodium lamp which cause the depressed mood, observers will feel more comfortable;
16	<b>Tremendous Energy Saving:</b> Used the ultra high power, high brightness LED light source ,together with the high power efficiency power supply, which can save energy 50%-80% than the conventional sodium and mercury lamps;
17	<b>Long Life, Up to 50,000 Hours:</b> (Working for 10 hours a day, can be used for more than 13 years), is 5-10 times working life than a traditional sodium or mercury lamp;
18	<b>Green and Environmental Protection:</b> no lead, no mercury, no environmental pollution;
19	<b>Universal Input Voltage-85-264vAC</b> full voltage range constant, constant-current PWM technology, high efficiency, low-heat, high-precision constant current;
20	<b>No Pollution to Power Network:</b> Power factor $\geq 0.9$ , THD $\leq 20\%$ , EMI apply with the global universal index, reduce the power loss and transmission lines to avoid contamination of the network of high frequency interference;
21	<b>Work under Low-voltage and Low-Heat, Safe and Reliable:</b> LED junction temperature can be controlled under an ideal temperature ( $T_J < 60^\circ\text{C}$ $T_a = 25^\circ\text{C}$ ambient temperature);
22	<b>Perfect Combination With solar Energy:</b> Fully exert the advantage of the LED work under low voltage and environment work, according to the local solar energy resources, electricity and solar power can also be combined .To achieve the best cost performance and high reliability customers;
23	<b>High Luminous Efficiency:</b> LED luminous efficiency of the existing condition is $\geq 80\text{lm/w}$ , with the rapid increase LED brightness, lighting power will be further reducing, and saving energy efficiency will show obviously;
24	<b>Perfect Support intelligent control:</b> such as combine Tunnel lighting starts shortly as trait( $< 2$ seconds), Adopt the newest technology of tunnel lighting intelligent control, when no vehicles pass tunnel, It can put out most of lamps, when vehicles pass tunnel entrance at within 500m area, It can start lighting automatically. So It has solved the problem of smaller tunnel traffic which no vehicles pass the tunnel will waste a great deal of electric power sources. Supply a new idea “establish saving society” to city road management;
25	<b>Have a number of patents for inventions and utility model patents.</b>

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## Technical Parameters

Model Number	LTHSD2
Input Voltage	85-264VAC
Frequency Range	47~63 Hz
Power Factor(PF)	>0.9
Total Harmonic Distortion(THD)	<20%
Power Efficiency	85%
LED Working Voltage	24VDC
LED Consumption	56W
Power Supply Consumption	10W
LED Luminous Efficiency	>80LM/W
LED Initial FLux	5,000lm (T <sub>J</sub> =25°C)
LED Maintain FLux	4,600lm(T <sub>J</sub> =60°C, T <sub>a</sub> =25
Lamp's FLux	4,200lm(T <sub>J</sub> =60°C, T <sub>a</sub> =25°C)
Lamp's Efficiency(%)	>90%
Illumination(E)	(Height=4m):≥80Lux(The equivalent of high pressure sodium lamp 200 Lux) (Height=5m): ≥38 Lux (The equivalent of high pressure sodium lamp 95 Lux) (Height=6m): ≥26 Lux (The equivalent of high pressure sodium lamp 65 Lux) (Height=7m): ≥20 Lux (The equivalent of high pressure sodium lamp 50 Lux) (Height=8m): ≥15 Lux (The equivalent of high pressure sodium lamp 38 Lux)
Effective Illuminated Area	(Height=4m):13×5m (Height=5m):16×6m (Height=6m):20×8m (Height=7m):23×9m (Height=8m):26×10m
Color Temperature(CCT)	Pure White:5,000~7,000K,Warm White:3,000~4,000K
Color Index(CRI)	>75

# LTHSSD2 – High Power LED Tunnel Light

Light Source	LTHS Emitter(1 Watt)
Light Distribution Curve/Beam Pattern	Asymmetric(Bat Wing)/Rectangular Beam
The Maximum Light Intensity Angle	The Horizontal Axis:110°C, The Vertical Axis:45°C
Light Beam Angle	The Horizontal Axis:120°C, The Vertical Axis:60°C
Junction Temperature(Tj)	60°C±10%(Ta=25°C)
System Resistance(Rja)	0.5°C/W
Working Temperature	-30°C~50°C
Working Humidity	10%~90%RH
Storage Temperature	10°C~85°C
Working Life	>50,000Hrs
Light Body & Lampshade Material	Aluminum Alloy and PC
Dimensions(mm)	325(L) × 210(W) × 100(H)
Net Weight	4.8 Kgs
IP Rating	IP65
Packing	1 pc /Carton
Carton Size	525 x 296 x 205 mm
Container Q'ty (pcs)	20'Q: 847 pcs 40'Q: 1,694 pcs, 40'HQ: 2,156 pcs
Warranty	12 Months

## Design For:

New Installation or Replace the traditional High Pressure Sodium Lamp, High Pressure Mercury Lamp, and Metal Halide Tunnel Lights Etc.



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The Right Light

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Installation & Lighting Effects Pictures:



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