



World Leaders in Solar Technology

**LU2 LED STREETLIGHT SPECIFICATION as
*part of LU SERIES***

Exclusively by ZRW MECHANIKA



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Benefits

- ▼ **Low Power Consumption** - 56W
- ▼ **High Brightness** - Up to 4,200 Lumens, 8 TIMES 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 generated/No UV, adopted the integrative lamp cup & radiator, scatter heat quickly
- ▼ **Easy Installation** - With the adjustable hoop, which can 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	Revolutionary Photometric Design -The world's first dedicated optical system(rectangular beam focusing lens): Reasonable control of the light distribution, spot rectangular beam pattern ,and ensure an ideal uniformity of brightness on the road surface, eliminate the glare and keep the LED lighting efficiency on a high level, no light pollution;
2	Unique Integrated Lens and Lampshade Design: Array Lens play a protective and spot light role, avoid wasteful duplication of light and reduce the loss of light, also reduce the weight of the product and enable simplified structure, to keep the product ethereal;
3	Creative Design of the Radiator and Lamp holder Integration: Fully protect LED life and heat dissipation requirements, satisfied with the structure and design of LED Lights fundamentally, which the most distinctive features of LED Lights;
4	Unique Thermal slide-shell design, disassembled with simple and convenient combination: Slide lights with composite shells, the installation forms dynamic, simple and convenient combination lamps. Easy for dismantle and maintenance, save cost and the job has become very easy;
5	With thin and slim appearance, reduced the wind force and weight, decreased the lamp pole load, enhanced the safety factor;
6	Intelligent current control, achieve the precision constant current: Each LED module can implement intelligent current control, whatever power network how to wave, it is able to achieve the precision constant current, ensure the LED can work under the secure current;
7	No Adverse Glare: 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	NO light Pollution: Light distribution controlled strictly and will not bring any light out of the request area;

Technical Parameters:

Model Number	LU2
Input Voltage	85-264VAC
Frequency Range	47~63Hz
Power Factor(PF)	>0.9
Total Harmonic Distortion (Thd)	<20%
Power Efficiency	85%
Working Voltage	24VDC
Led Consumption	56w
Power Supply Consumption	10w
Led Luminous Efficiency	≥80lm/W
Led Initial Flux	5,000lm (Tj=25℃)
Led Maintain Flux	4,600lm(Tj=60℃,Ta=25℃)
Lamp'S Flux	4,200lm(Tj=60℃,Ta=25℃)
Lamp'S Efficiency (%)	>90%
Illumination (E)	(Height=6m) ≥26 Lux (Replaced Sodium Light Of 65 Lux) (Height=8m) ≥15 Lux (Replaced Sodium Light Of 38 Lux) (Height=10m) ≥9 Lux X (Replaced Sodium Light Of 20 Lux) (Height=12m) ≥6 Lux (Replaced Sodium Light Of 15 Lux)
Effective Illuminated Area	(Height=6m): 20 x 8m (Height=8m):26 x 10m (Height=10m):33 x 13m (Height=12m):40 x 16m
Color Temperature	Pure White: 5,000~7,000k; Warm White :3,000~4,000k
Color Index(CRI)	Ra>75
Light Source	BBE Emitter (1watt)
Light Distribution Curve/Beam Pattern	Asymmetric (Bat Wing)/ Rectangular Beam

The Highest Light Intensity Angle	120°:The Horizontal Axis:110°, The Vertical Axis:45°; 140°:The Horizontal Axis:130, The Vertical Axis:45°
Beam Angle	120°:The Horizontal Axis:110°, The Vertical Axis:45°; 140°:The Horizontal Axis:130, °The Vertical Axis:45°
Junction Temperature(Tj)	60 ℃ ± 10 %(Ta=25℃)
System Resistance (Rja)	0.56°C/W
Working Temperature	-30 ~ 50
Working Humidity	10%~90%
Storage Temperature	10 ~85
Working Life	50,000 Hrs
Light Body& Lampshade	Aluminum Alloy And PC
The Dimensions(Units: mm)	540(L) x 315(W) x 90(H)
Net Weight	7 Kgs
IP Rating	IP65
Packing	1 pc /Carton
Carton Size	620 x 400 x 205 mm
Container Q'ty (pcs)	20'Q: 561 pcs 40'Q: 1,166 pcs, 40'HQ: 1,378 pcs
Guaranty	12 months

Design For:

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

9	No High-voltage, No Dust Adsorption: Eliminate the chance of adsorbs the dust by high-voltage which will cause the lampshade become dark, reduce the brightness;
10	No High-temperature, No Aging Yellow Lampshade: Eliminate the baking which cause traditional lampshade turn yellow, shortened life expectancy and decrease the brightness;
11	Wide Working Voltage: For the traditional light source such as the High Pressure Sodium, if the voltage fluctuation $\pm 7\%$, the brightness and lifetime will be reduced very fast, but for BBE LED, even the voltage fluctuation is $\pm 20\%$, the brightness and lifetime will not be influenced at all;
12	Start Without Delay: Reach the normal brightness directly and do not have any delay, eliminate the long process starting of the traditional tunnel lights;
13	No Strobe Flashing: Eliminate the visual fatigue which caused by the strobe lights of the traditional tunnel lamps;
14	Impact Resistance, Shock-proof, Without Ultraviolet (UV) and Infrared (IR) Radiation: No filament and glass frames, avoid break of the traditional lamp, without harm to the human body;
15	High Color Index, Nice Coloration: To show the true colors and brighter, good identifiably;
16	Multiple Color Temperature Options: 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;
17	Tremendous Energy Saving: 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;
18	Long Life, Up to 50,000 Hours: (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;
19	Green and Environmental Protection: no lead, no mercury, no environmental pollution;
20	Universal Input Voltage-85-264vAC full voltage range constant, constant-current PWM technology, high efficiency, low-heat, high-precision constant current;
21	No Pollution to Power Network: Power factor ≥ 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;
22	Work under Low-voltage and Low-Heat, Safe and Reliable: LED junction temperature can be controlled under an ideal temperature ($T_J < 60^\circ\text{C}$ $T_a = 25^\circ\text{C}$ ambient temperature);
23	Perfect Combination With solar Energy: 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;
24	High Luminous Efficiency: 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, when the luminous efficiency reach 150lm/w , the 400W high pressure sodium lamp will be replaced by the 80w LED Streetlight. And we believe the LED luminous efficiency will reach 300lm/w at last, then it will have a tremendous energy saving result.
25	Have a number of patents for inventions and utility model patents.