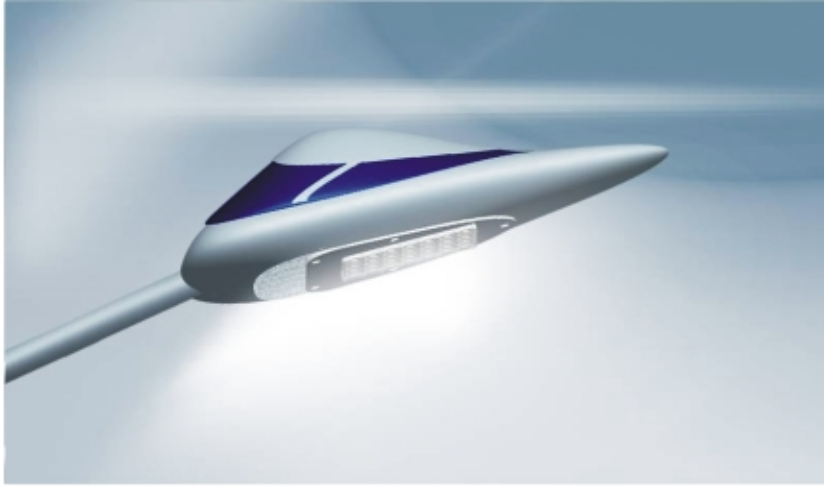


LU1 Technical Parameters

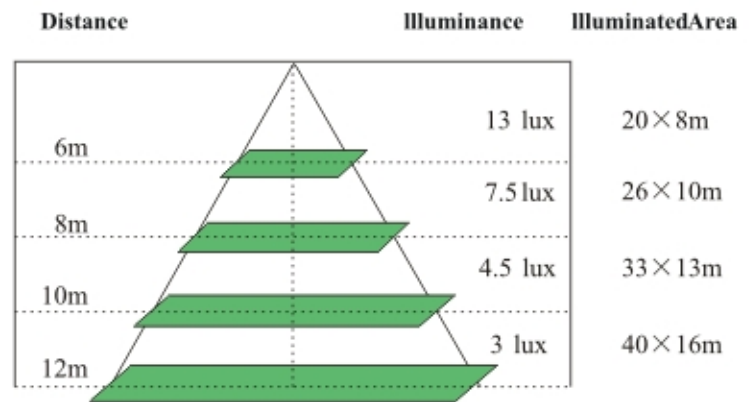
Item	Mode	LU1
Input Voltage		85 ~ 264 VAC
Power Factor		47 ~ 63 Hz
Frequency Range		>0.9
Total Harmonic Distortion(THD)		<20%
Power Efficiency		83%
Module Working Voltage		24 VDC
LED Consumption		28 W
Power Supply Consumption		7W
LED Luminous Efficiency		≥ 80 lm/w
LED Initial Flux		2,500 lm (Tj=25 °C)
LED Maintain Flux		2,300 lm (Tj=70 °C , Ta=25 °C)
Lamp's Flux		2,100 lm (Tj=70 °C , Ta=25 °C)
Lamp's Efficiency(%)		>90 %
Illumination(E)		(height=6 m): ≥ 13 LUX (The equivalent of high pressure sodium lamp 33 LUX) (height=8 m): ≥ 7.5 LUX (The equivalent of high pressure sodium lamp 19 LUX) (height=10 m): ≥ 4.5 LUX (The equivalent of high pressure sodium lamp 11 LUX) (height=12 m): ≥ 3 LUX (The equivalent of high pressure sodium lamp 7.5 LUX)
Effective Illuminated Area		(height= 6 m): 20× 8 m (height= 8 m): 26×10m (height=10 m): 33×13m (height=12 m): 40×16m
Color Temperature(CCT)		PureWhite: 5,000 ~ 7,000 K, WarmWhite:3,000 ~ 4,000K
Color Index(CRI)		Ra > 75
Light Source		BBE Emitter (1 Watt)
Light Distribution Curve/Beam Pattern		Asymmetric(Bat Wing)/Rectangular Beam
The Maximum Light Intensity Angle		120°:The Horizontal Axis:110°, The Vertical Axis:45°; 140°:The Horizontal Axis:130, The Vertical Axis:45°
Light Beam Angle		120°:The Horizontal Axis:120°, The Vertical Axis:60°; 140°:The Horizontal Axis:140, °The Vertical Axis:60°
Junction Temperature(Tj)		70 °C ± 1 0% (Ta= 25 °C)
System Resistance(Rja)		1.4 °C/ W
Working Temperature		- 30 °C ~ 40 °C
Working Humidity		10 % ~ 90 % RH
Storage Temperature		10 °C ~ 85 °C
Working Life		>50,000 Hrs
Light Body & Lampshade Material		Aluminum Alloy and PC
Lamp Base		Hoop
Sensor		Automatic on and off
IP Rating		IP 65



LU1 Photometric Performance

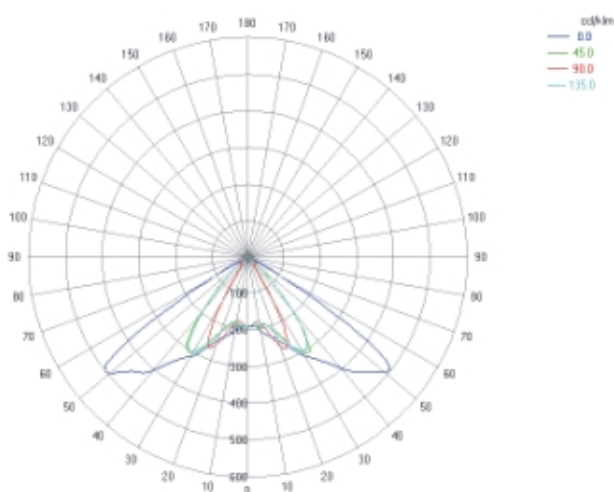
Bat-Wing beam pattern of the distribution curve also can be changed by different section's demand. Rationally control the distribution to be a rectangular beam pattern. When the installation height=6m, the beam pattern is 20x8m rectangular, and the radiation-efficiency is more than 70% in the effective region, the total transperance is more than 90%, the greatest extent possible to reduce the loss of light, the LED light has been fully utilized. The illumination uniformity is very good in the effective irradiation region, even better than 0.5, higher than the highest grades of 0.4 of the state road's standards. The edge of the beam pattern is very clear and slide, no adverse glare out of the effective radiation region, will not cause any light pollution, it is an idea cut-lighting lamp. Satisfy the requirements of the road lighting or other special lighting, which can be widely used in the special requirements such as street lighting, advertising lighting, etc. It is a green, energy-saving, environmentally friendly lighting product.

◆ Illuminance Distribution at different heights

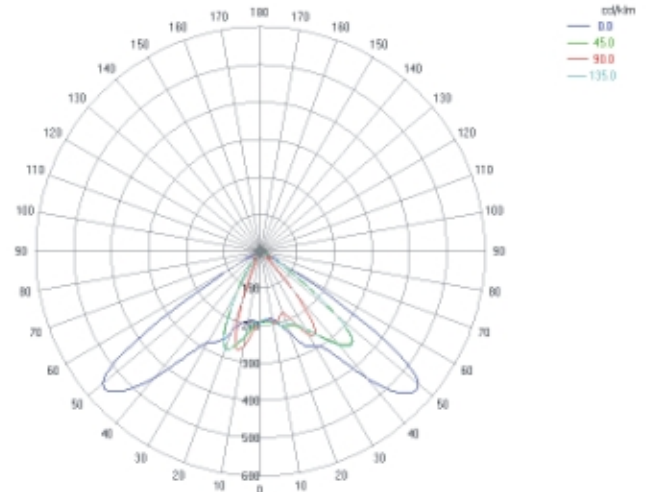


◆ Light Distribution Curve

① Lamp's Plane Installation

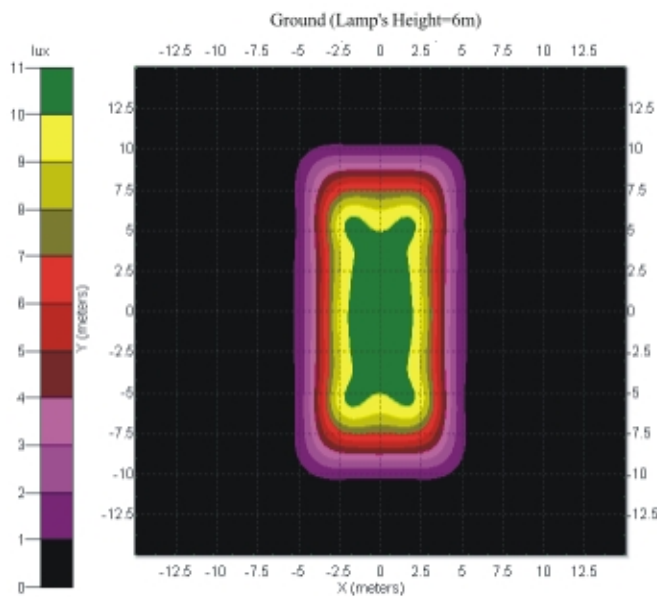


② Lamp's Inclined Installation

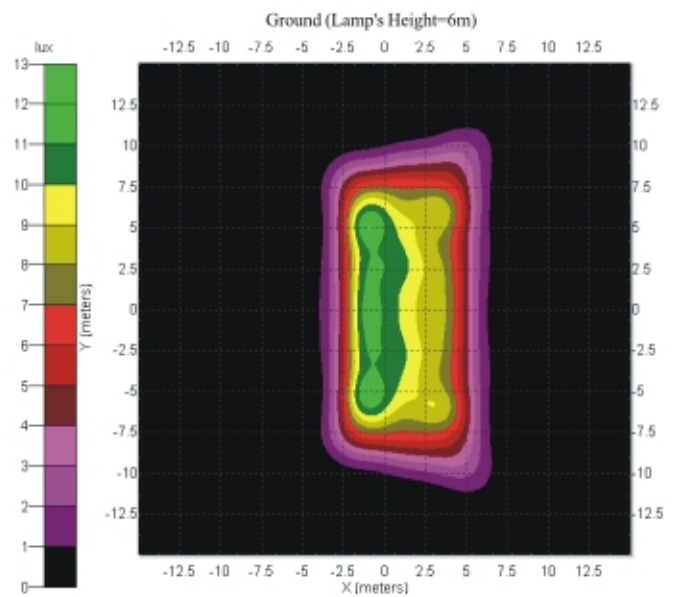


◆ Plane Equal Illuminance Distribution

1 Lamp's Plane Installation



2 Lamp's Inclined Installation



◆ Actual Lighting Effects (Beam Pattern)

1 Lamp's Plane Installation



2 Lamp's Inclined Installation



The Beam Pattern is rectangular (rectangle), good illumination uniformity, the brightness difference is very little between the spot of center and periphery. Almost no difference in the direction of extending the road completely with the continuous extension of the road, it is the ideal lighting lamps for road lighting.

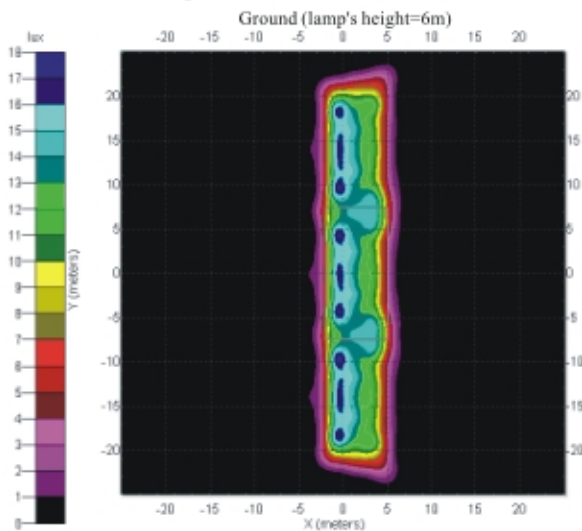
LU1 Application Project Display

◆ Actual Effects on the Road

1 Unilateral Road Layout

Below picture is we install the lamps on one side of the road, 3 lamps' illumination map and beam pattern, in a single lamp's effective covered regional (pane area) is very uniform illumination, 7M(2 lanes) width intensity values: 18 lux maximum, 7 lux minimum, uniformity value > 0.5 . The brightness difference is very little between the center of the beam pattern and edge, almost no difference in the direction of the road extension, fully consistent with the road for the extended, reached the ideal road lighting effects.

Plane Equal Illuminance Distribution



Actual Lighting Effects (Beam Pattern)



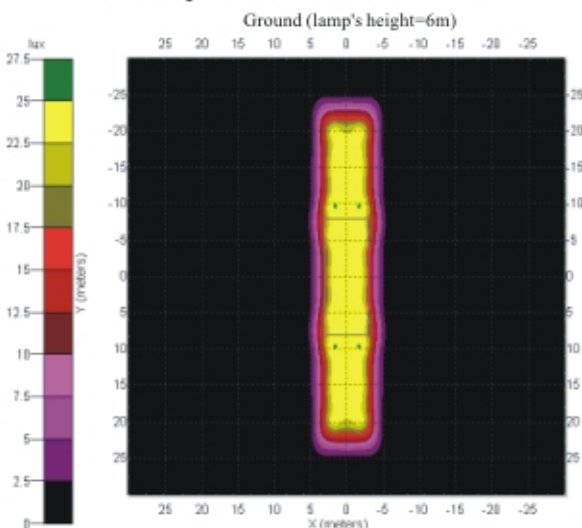
Unilateral Road Layout Related Parameters

- 1: lamp model : LU1
- 2: 1.lamp power consumption:28 W
- 3: lamp height :6M
- 4: Lamp Pole space :15M
- 5: lamp elevation:10° ~ 15°
- 6: 1.road width: 7M(two-way 2 lanes)
- 7: 1.lamp pole arm length :1.5~2m

2 Symmetrically on both sides of the road:

Below picture is we install the lamps on each sides of the road symmetrically, each 3 lamps' illumination map and beam pattern, in a single lamp's effective covered regional (pane area) is very uniform illumination, 7M(2 lanes) width intensity values: 25lux maximum, 15lux minimum, uniformity value > 0.7 . The brightness difference is very little between the center of the beam pattern and edge, almost no difference in the direction of the road extension, fully consistent with the road for the extended, reached the ideal road lighting effects.

Plane Equal Illuminance Distribution



Actual Lighting Effects (Beam Pattern)



Symmetrical Road Layout Related

- 1: lamp model : LU1
- 2: 1.lamp power consumption:28 W
- 3: lamp height :6M
- 4: Lamp Pole space :15M
- 5: lamp elevation:10° ~ 15°
- 6: 1.road width: 7M(two-way 2 lanes)
- 7: 1.lamp pole arm length :1.5~2m