

# VENUS SERIES LED STREET LIGHT



- Input Voltage (VAC) : 220V -265V
- Input Frequency (Hz) : 50/ 60 Hz
- Input Current ( $I_{AC}$ ) : 0.35A
- Input Wattage (w) :
  - VENUS TEN: 55W  $\pm$  5W
  - VENUS ONE: 115W  $\pm$  5W
- LED Operating Voltage ( $V_{DC}$ ) : 80V
- LED Operating Current ( $I_{DC}$ ) : 0.35A
- Average Luminous flux (lm/W) :  $\geq 90\text{lm/W}$

- Power Factor (PF) :  $\geq 0.98$
- Power efficiency (PE) :
  - VENUS TEN:  $\geq 89\%$
  - VENUS ONE:  $\geq 92\%$
- Ra/CRI :  $\geq 75\%$
- Illumination (lux) :
  - VENUS TEN: (height of 5m)  $\geq 30\text{lux}$   
(height of 8m)  $\geq 12\text{lux}$
  - VENUS ONE: (height of 10m)  $\geq 19\text{lux}$   
(height of 12m)  $\geq 13\text{lux}$
- Illuminate Angle :  $30^\circ \sim 150^\circ$ ,  
according to customer's need
- Luminous flux (lm) :
  - VENUS TEN:  $\geq 5,000\text{lm} \pm 5\%$
  - VENUS ONE:  $\geq 10,000\text{lm} \pm 5\%$
- Color Temperature (K) :  $5500\text{K} \pm 500\text{K}$



- Operation Temp. ( $^\circ\text{C}$ ) :  $-40^\circ\text{C} \sim 55^\circ\text{C}$
- IP Level : IP66
- Replace model:
  - VENUS TEN: 150W HPS
  - VENUS ONE: 250W HPS
- Luminous decay (%) :  $\leq 5\% / 10,000\text{Hrs}$   
 $\leq 30\% / 30,000\text{Hrs}$
- Weight (kg) :  $6.8 \pm 0.5\text{Kg}$
- Dimension (mm) :  $590 \times 255 \times 120\text{mm}$



## Environmental protection and energy saving

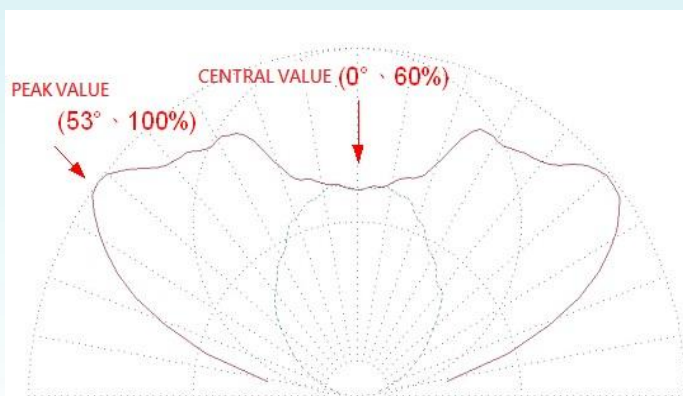
For Venus One, our power efficiency is greater than 90% (Venus Ten is greater than 89%) compares to 250W HPS (Venus Ten is compares to 150W HPS) we can save about 50% of the power consumption. Led light does not have UV light and light up instantly without blinking and no warm up necessary.

## No over lapping optic design

Using anti-UV ray Boron glass allows longer life span against weather as UV protection glass will not aged easily. With long term use the glass will not turn yellow. Light through ratio is over 95%. With the special twin-lens design which will overcome the issue of shadow over lapping and dizzy effect to secure the safety of the moving vehicles.

## Safety protection

Traditional HPS light need 1200VAC to activate at which LED light only requires low voltage direct current and will not cause danger to the people passing by.



## Patent manufacturing process(BIC)

Using flat bottom round concave cup with Macromolecule coated PCB allows the PCB to conduct heat faster. Operating temperature is  $55\pm 5^{\circ}\text{C}$ . There is no need for fan, cooling tube or any heat dispersion devices within the lamp.

## Patent design

Patent aerospace alloy exterior cover with heat sink which was form from single process has the best heat dispersion exterior and can adapt to rough weathers.

## Long life span

LED life span is over 30,000 hours with average of 10 hours per day the lamp can last for over 8 years. Compare to the traditional light bulb, LED is more durable since it has more shock resistance, will not crack easily and over need minimum maintenance.



## Modifying the light distrubution angle

The peak value against the Illumination to the road surface is around  $100\% \times \cos 53^{\circ} = 60\%$  which is the same as the central value (60%).

## The best surface finishing

In order to adopt to different atmosphere like cold weather, tropical weather, subtropical weather there are many ways to modify the light cover to accomplish the best durability and heat dispersion. Ways like anodization, sandblasting, painting and partial painting.