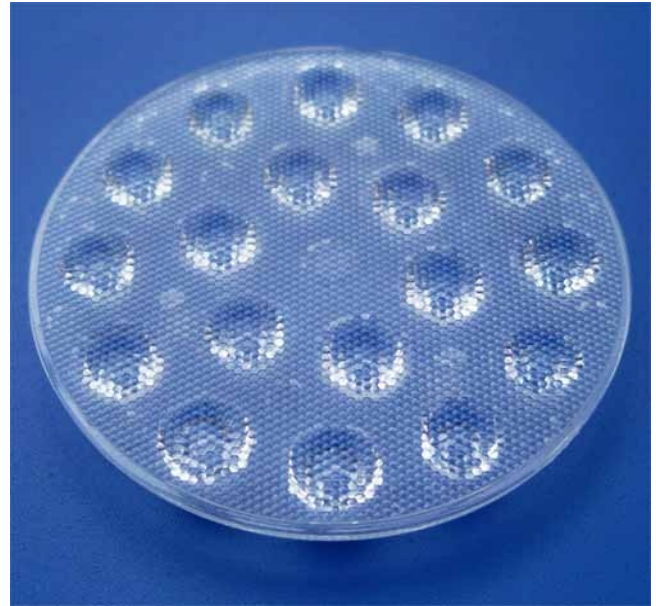


## \* PRODUCT DATASHEET

- \* Model: HX-C67x18L-30
- \* Dimensions:
  - Lens:  $\Phi 67.0\text{mm}$  H7.60 $\pm$ 0.1mm
  - Cone holder: N/A
  - bipod striped cylinder holder: N/A
- \* Materials:
  - Lens: Optical Grade PMMA / PC
  - Holder: N/A
- \* Assembly Dimensions:
  - Lens with cone holder: N/A
  - Lens with bipod striped cylinder holder: N/A
- \* Surface Treatment: Beads surface
- \* Beam Angle: 30deg
- \* For Led:
  - CREE X-PC/E/G/G2
  - CREE X-TE/BD/QE
  - Federal 3535
  - OSRAM OSLON SSL/Square
  - Nichia 119A
  - Seoul Acriche Z5
  - LG/Samsung 3535
  - Lumileds Rebel
- \* Certification: SGS RoHs



- \*Features:
  - High efficiency
  - Available in 1 beam Patterns
  - Optimized for uniform effects
  - Lens with holder
- \*Typical applications:
  - Stage lighting
  - Street lights
  - Decorative light
  - Architectural lighting
  - Down light
  - Flashlight

## \* Brief description :

\*The OPTIC-FOV (Shenzhen Hongxuan Optoelectronic Technology Co., Ltd) lens offers low-profile lenses specifically designed for the Luxeon® LEDs, Edison® LEDs, Bridgelux® LEDs, CREE® LEDs or Seoul® LEDs.

\*A software-optimized aspheric profile enables the generation of several different beam output patterns:narrow,medium,elliptical and wides beams.

The high collection efficiency reaches 85% of the total flux emitted by the LEDs.

\*Lens holders are available in white or black,and provide the proper alignment the between the LEDs and the lenses,set correct distance between the lens and LED.

\*The lens holder can be glued to the PCB to provide a secure assembly.



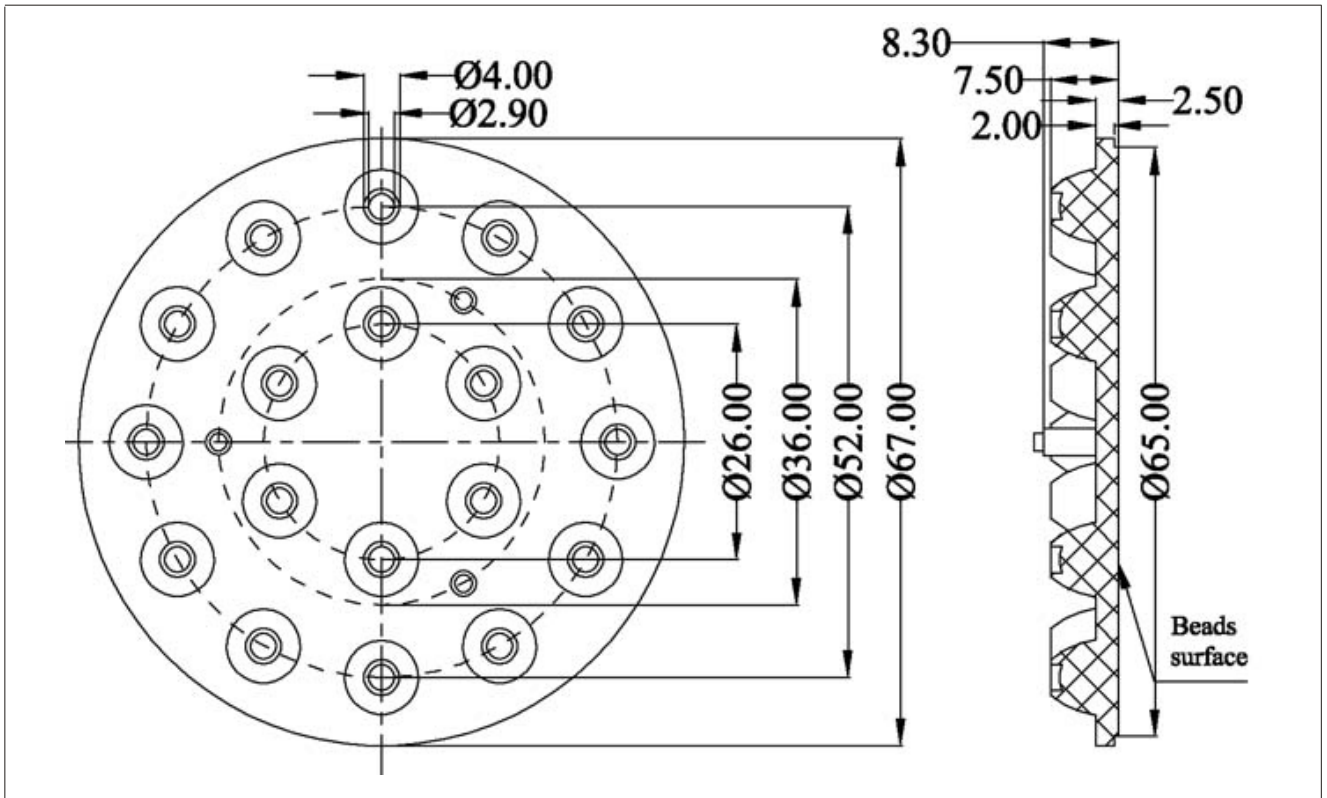
Company: Shenzhen Hongxuan Optoelectronic Technology Co., Ltd  
 Address: 33 building, Tongfuyu industrial park, Dalang Longhua new district,  
 Shenzhen city, Guangdong China

Tel: 0086-755-29059599 Fax: 0086-755-29056599 Email: opticfov@gmail.com

Website: www.optic-fov.com



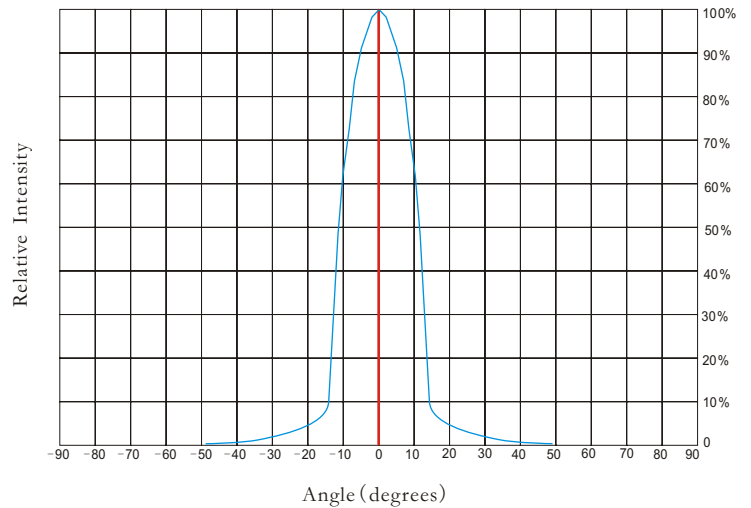
## \* Holder and Lens dimensions of the 2D views



## \* Beam Pattern



## \* Angular Intensity Distribution



## \* Typical illuminance values

| Normal Distance (m)                  | 1.5     | 2       | 3      | 9   |
|--------------------------------------|---------|---------|--------|-----|
| Illuminance (lux <sub>1W led</sub> ) | 3862.08 | 2172.42 | 965.52 | N/A |
| Illuminance (lux <sub>3W led</sub> ) | N/A     | N/A     | N/A    | N/A |

Notes:

\*Cree flux characteristics at IF=350mA and T<sub>J</sub>=25°C: for 1W Q5 (Part Name: XPGWHT-L1-0000-00DE4/Neutral White/107lm/Lambertian LED)

\*Performance values given are typical values and will vary dependant on LED binning, colour and drive profile

\*Typical illuminance values is reference data (Receiving surface of the average illuminance values).



## \* LED Lens materials feature table

| Items                      | Features               | Experimental methods  | Units | PMMA |
|----------------------------|------------------------|-----------------------|-------|------|
| Physical properties        | Density                | ASTM D792             | g/cm  | 1.19 |
|                            | Absorbption            | ASTM D570             | %     | 2    |
| Optical properties         | Refraction index       | ASTM D542             |       | 1.49 |
|                            | Transmittance          | ASTM D1003            | %     | 95   |
|                            | ABBE                   | ASTM D542             |       | 58   |
|                            | Birefringence          |                       | nm    | <20  |
| Thermodynamical properties | Glass transition point | DSC                   | °C    | 150  |
|                            | Heat distortion        | ASTM D648 (1.85kg/cm) | °C    | 120  |
| Mechanical properties      | Tensile strength       | ASTM D638             | MPA   | 730  |
|                            | Tensile elongation     | ASTM D638             | %     | 10   |
|                            | Flexural modulus       | ASTM D790             | 10MPA | 3    |

## \* Notes:

- 1.Engineering drawings and all dimensions are in millimeters,holder and lens tolerance,respectively  $\pm 0.10$  and  $\pm 0.05$ .
- 2.Product operating temperature range  $-40^{\circ}\text{C} \sim +70^{\circ}\text{C}$  (upper limit  $+80^{\circ}\text{C}$ ).
- 3.Product storage temperature range  $-40^{\circ}\text{C} \sim +70^{\circ}\text{C}$  (upper limit  $+80^{\circ}\text{C}$ ).
- 4.Average transmittance in visible specturm  $400\text{nm} \sim 700\text{nm} > 92\%$ .
- 5.If necessary,clean lenses with mild soap water and soft cloth.
- 6.Never use any commercial cleaning solvents on lenses,like alcohol.
- 7.Please handle and install lenses with wearing gloves,skin oils may damage lens or its optical characteristic.

