

* PRODUCT DATASHEET

* Model: HX-CRF

* Dimensions:

Lens: 21. 64x21.64mm H12.10mm

Cone holder: N/A

Square holder: 21. 64x21.64mm H11.69mm

* Materials:

Lens: Optical Grade PMMA PC

Holder: ABS

* Assembly Dimensions:

Lens with cone holder: N/A

Lens with square holder: 21. 64x21.64mm H12.79mm

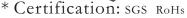
* Surface Treatment: Stripes surface

* Beam Angle: $12(\pm 2) \times 48(\pm 2) \deg$

* For Led:

CREE XP-C/E/G CREE XT-E CREE XB-D

Seoul Z5P
Oslon CP7P
3535





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 OSRAM* 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.

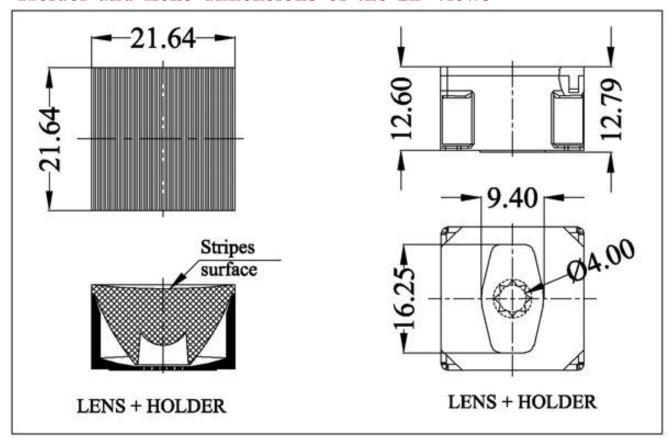








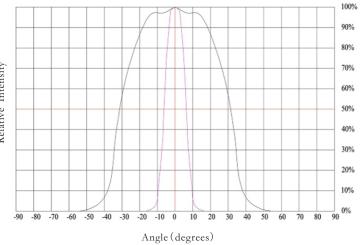
* Holder and Lens dimensions of the 2D views



* Beam Pattern



* Angular Intensity Distribution

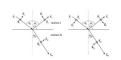


* Typical illuminance values

Normal Distance (m)	1. 5	2	5	9
Illuminance (lux 1W led)	N/A	N/A	N/A	N/A
Illuminance (lux 3W led)	N/A	N/A	N/A	N/A

Notes:

values).



^{*}Cree flux characteristics at IF=350mA and TJ=25°C:for 1W Q5 (Part Name:XPGWHT-L1-0000-00DE4/Neutral White/107lm/Lambertian LED)

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* LED Lens materials feature table

Items	Features	Experimental methods	Units	PMMA
Physical propertie s	Density	ASTM D792	g/cm	1. 19
	Absorbtion	ASTM D570	%	2
Optic al propertie s	Refraction index	ASTM D542		1. 49
	Transmittance	ASTM D1003	%	95
	ABBE	ASTM D542		58
	Birefringence		nm	<20
Thermodynamical properties	Glass transition point	DSC	$^{\circ}$	150
	Heat distortion	ASTM D648 (1.85kg/cm)	°C	120
Mechanical propertie s	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 ± 0.10 and ± 0.05 .
- 2.Product operating temperature range -40 °C ~+70 °C (upper limit +80 °C).
- 3. Product storage temperature range -40 °C ~+70 °C (upper limit +80 °C).
- 4. Average transmittance in visible specturm 400nm~700nm>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.

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