

DATASHEET

S01.01.02.442_HILBERT-55_G2_5050-PIN

Architecture Lighting:

~55° wide beam. Assembly with 5050 LED holder, installation tape and location pins.

HILBERT-G2 SERIES ; Ø22mm TIR-lenses assembled with holder. Optimized for CREE XP-G3, compatible with up to 5050 size LED packages, 3535 LED holder & 5050 LED holder is available.

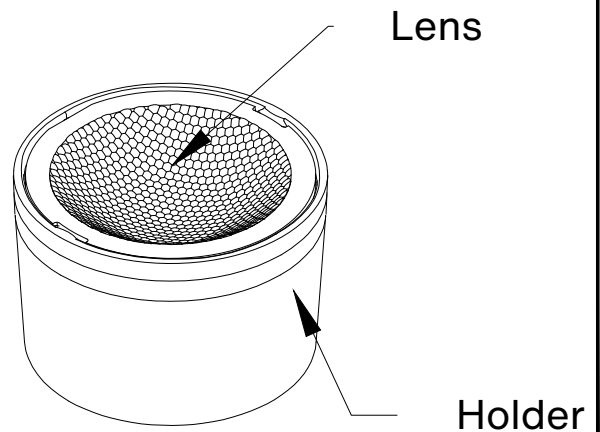
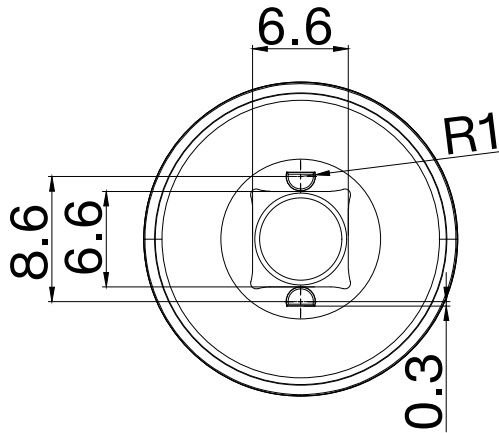
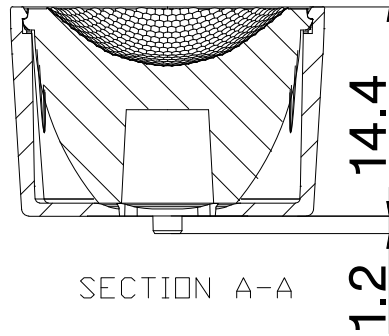
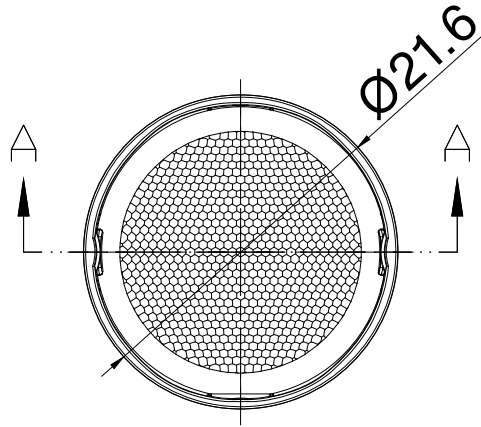
General Information

Lens Material	: PMMA
Holder Material	: PC
Size	: Ø22MM
Typ.FWHM	: 55°
Design LED	: CREE XP-G3
Compatibility	: 3030/2835/3535/5050
Typ.Efficiency	: 80%
Fasten	: Tape+Pin
IP class	: N/A
Zhaga	: N/A
RoHS	: YES
Color	: Clear



产品图 Product drawing

版本 REV	日期 DATE	变更内容 CHANGE (ITEM)
A0	2025-10-24	新建 NEW




技术要求:

1. 图中有序号尺寸需要重点控制;
2. 产品不得有缺胶、气泡、收缩、黑点等异常;
3. 塑料成型的公差一般按照 GB/T14486 标准, 除非图纸另有说明。
硅胶成型的公差一般按照 ISO 3302-1 中的 M3 级, 除非图纸另有说明。

Technical requirements:

1. The size of the ordered number in the figure needs to be controlled;
2. The product shall not have lack of glue, bubbles, shrinkage, black spots and other abnormalities;
3. Plastic moulding general tolerances according to GB/T14486 and applies if not otherwise shown in the drawing. Silicone moulding general tolerances according to ISO 3302-1 Class M3 and applies if not otherwise shown in the drawing.

SUNLUMIN OPTICS CO.,LTD

产品名称 Item name	S01.01.02.442_ HILBERT-55_G2_5050-PIN	产品材质 Product material	Lens:PMMA Holder:PC
图法 View	 第三视角	设计 Designed by	YeJingsi
比例 Scale	1:1	审核 Checked by	Eric
单位 Unit	MM	批核 Approved by	Eric

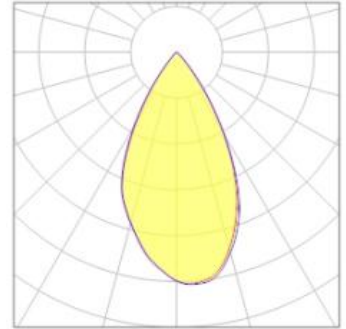
OPTICAL RESULTS

1) PHOTOMETRIC DATA(MEASURED):



LED model	CREE XP-G3
Light colour	White
LEDs/each optic	1
FWHM	H52.9°,V53.1°
FWTH	H78.3°,V77.4°

Required components:

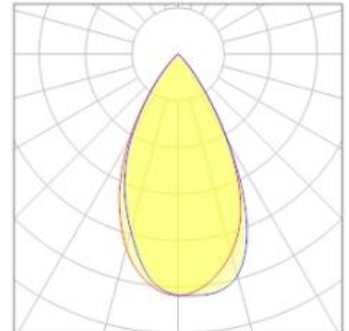


2) PHOTOMETRIC DATA(MEASURED):



LED model	GW_P9LR35.PM
Light colour	White
LEDs/each optic	1
FWHM	H54.7°,V53.5°
FWTH	H81.2°,V80.3°

Required components:

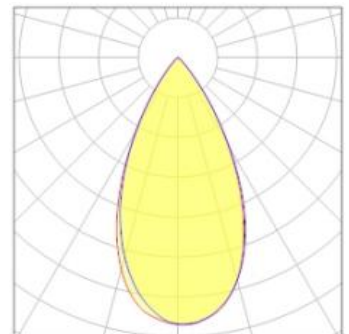


3) PHOTOMETRIC DATA(MEASURED):



LED model	Luxeon 5050 HE
Light colour	White
LEDs/each optic	1
FWHM	H51.6°,V51.3°
FWTM	H77.8°,V78.1°

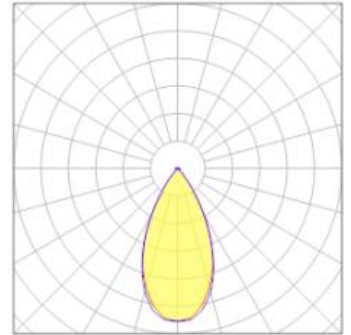
Required components:



4) PHOTOMETRIC DATA(SIMULATION):

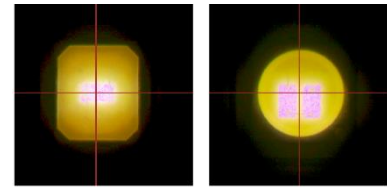


LED model	JR 5050 Square
Light colour	White
LEDs/each optic	1
FWHM	H50.8°,V50.9°
FWTM	H77.3°,V77.4°
Required components:	

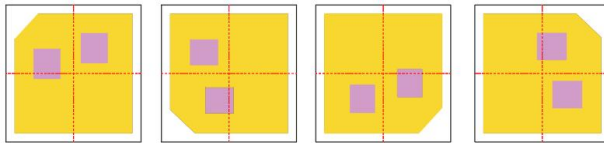


Usage and Maintenance

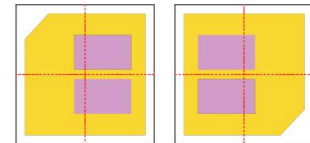
1) Due to varying asymmetric chip locations, especially on mid-power LEDs, the exact source of light is not always located at the centre of the LED packet. SunLumin recommends rotating such LEDs on the PCB in a regular pattern for smoother results.



Sample layout proposal:



Example A



Example B

- 2) If necessary, clean lenses with mild soap, water and soft cloth.
- 3) Never use any commercial cleaning solvents on lenses, like alcohol.
- 4) Please handle lens with wearing gloves, skin oils may damage lens or its optical characteristic.

Disclaimer

When gule pass through holes, columns and other structures, or part of the thin structure, will form a weld line. Please note that flow lines and weld lines on the external surfaces of the lenses are acceptable if the optical performance of the lens is within the specifications.

The typical beam angle will be changed by different color, chip size and chip position tolerance. The typical total beam angle is the full angle measured where the luminous intensity is half of the peak value. The chart data is for reference only. Please test the data again before using.

The appearance and specifications of the product can be changed to improve the quality and/or performance without notice.

SunLumin assumes no liability of any kind for the possible deviation from any provided data or any other damage resulting from the usage of the provided data.

Last update: 31-Mar-26