

# DATASHEET

**S01.01.02.474\_HILBERT-10\_G2\_5050**

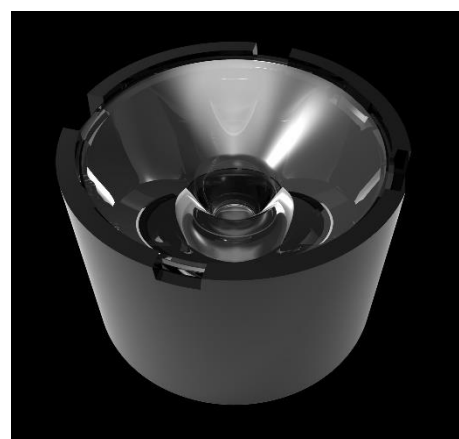
## Architecture Lighting:

~10° Extreme Small spot beam with holder..

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

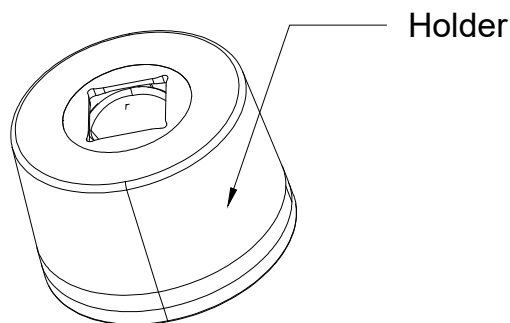
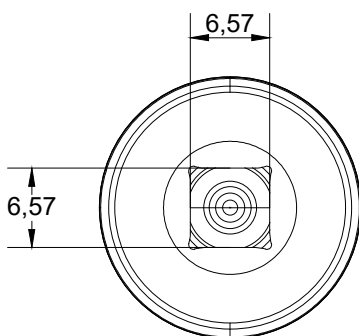
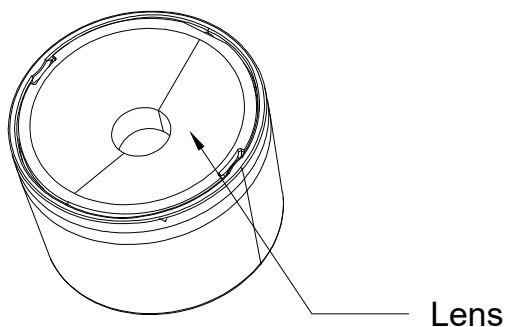
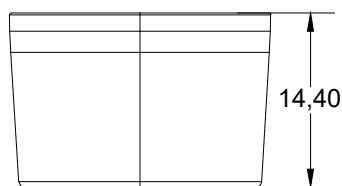
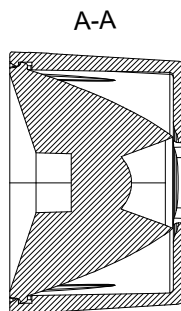
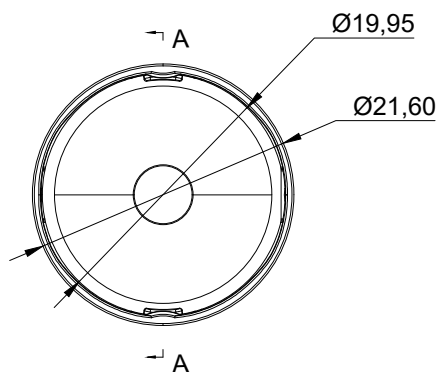
## General Information

|                 |                  |
|-----------------|------------------|
| Lens Material   | : PMMA           |
| Holder Material | : PC             |
| Size            | : Ø 22MM         |
| typ.FWHM        | : 10°            |
| Design LED      | : CREE-XPG3      |
| Compatibility   | : 5050/3535/3030 |
| typ.Efficiency  | : 87%            |
| Fasten          | : Tape           |
| 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     | 2025-06-24 | 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. 未标注公差尺寸参考GB/T14486公差表

## 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.Dimensions with unmarked tolerances refer to GB/T14486 tolerance table.

|                   |                                                                                              |                          |                          |
|-------------------|----------------------------------------------------------------------------------------------|--------------------------|--------------------------|
| 产品名称<br>Item name | S01.01.02.474_<br>HILBERT-10_G2_5050                                                         | 产品材质<br>Product material | Lens: PMMA<br>Holder: PC |
| 图法<br>View        | <br>第三视角 | 设计<br>Designed           | Yvan                     |
| 比例<br>Scale       | 1:1                                                                                          | 审核<br>Checked            | Jenny                    |
| 单位<br>Unit        | MM                                                                                           | 批核<br>Approved           | JG Wu                    |

SUNLUMIN OPTICS CO.,LTD

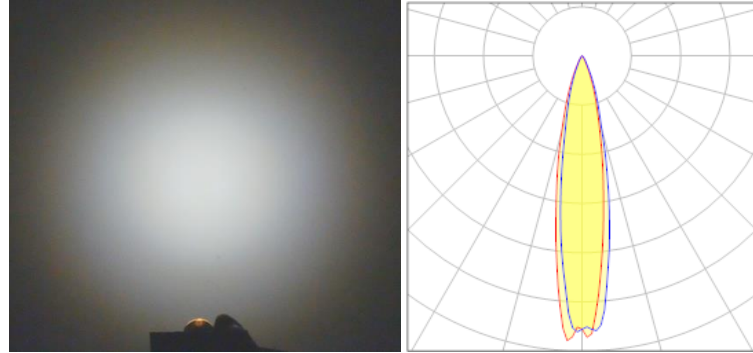
## OPTICAL RESULTS

### 1) PHOTOMETRIC DATA(MEASURED):



LED model LUXEON 5050 SQUARE  
Light colour White  
LEDs/each optic 1  
FWHM H19.8°, V20.1°  
FWTM H43.5°, V43.2°  
Required components:

N/A

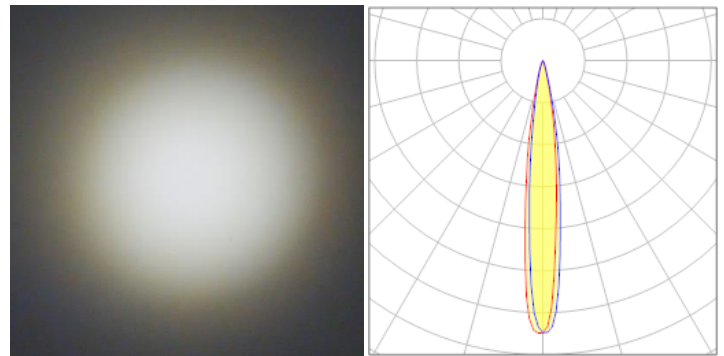


### 2) PHOTOMETRIC DATA(MEASURED):



LED model CREE-XPG3  
Light colour White  
LEDs/each optic 1  
FWHM H13°, V13°  
FWTM H27.4°, V26.9°  
Required components:

N/A

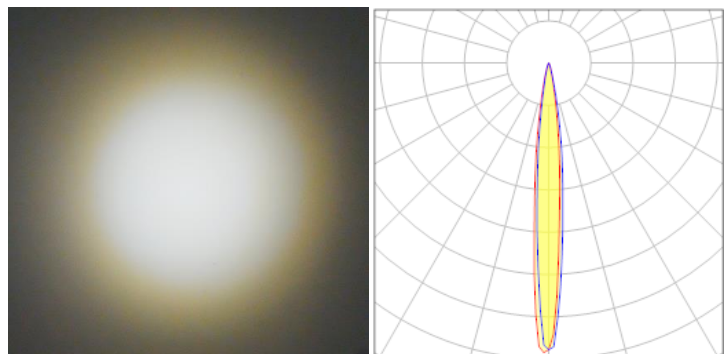


### 3) PHOTOMETRIC DATA(MEASURED):



LED model GW PSLT33.PM  
Light colour White  
LEDs/each optic 1  
FWHM H10.2°, V10.5°  
FWTM H23.8°, V23.5°  
Required components:

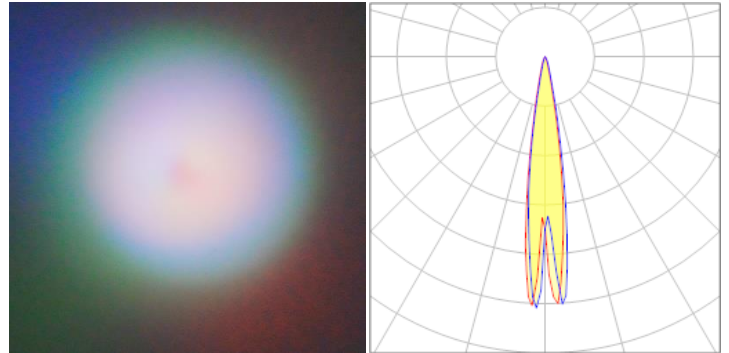
N/A



#### 4) PHOTOMETRIC DATA(MEASURED):

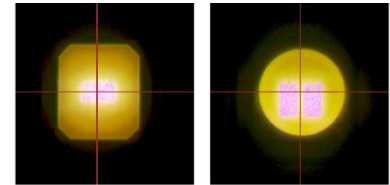
### TYANSHINE

|                      |                |
|----------------------|----------------|
| LED model            | TX 3535 RGBW   |
| Light colour         | White          |
| LEDs/each optic      | 1              |
| FWHM                 | H15.5°, V15.9° |
| FWTM                 | H30.0°, V29.6° |
| Required components: |                |

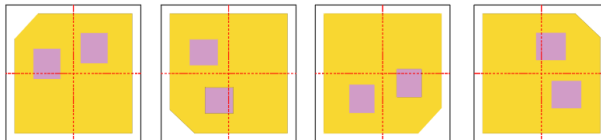
**N/A**

## Usage and Maintenance

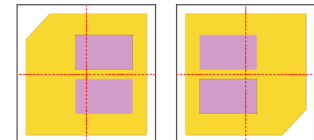
1) Due to varying asymmetric chip locations, especially on mid-power LEDs, the exact source of light is not always located at the centre of the LED packet. SunLumin recommends rotating such LEDs on the PCB in a regular pattern for smoother results.



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: 1-Aug-25