SunLumin

Your Optical Solution Partner

# DATASHEET

**S01.01.01.464_MAXWELL-16-90**

## Street & Area Lighting:

~90° wide beam.

MAXWELL-16 SERIES; 50 x 50 mm 4X4 arrays optimized for 3030 size LED packages. The position of LED and the positioning column meet the EU ZHAGA standard.

## General Information

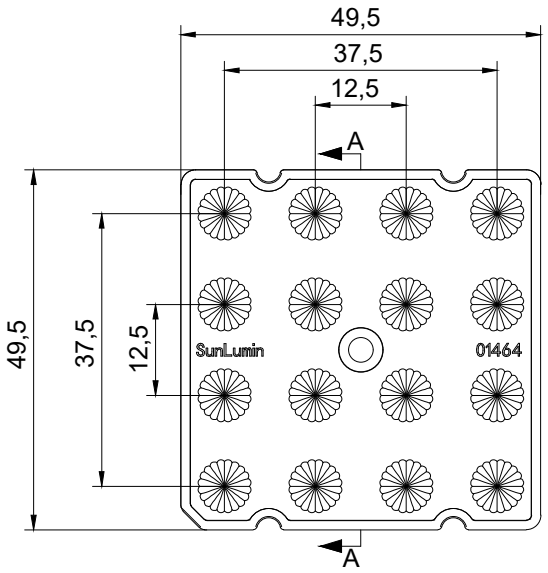
| | | |
|---|---|---|
| Lens Material | : | PC |
| Size | : | 50X50mm |
| Typ.FWHM | : | 90° |
| Design LED | : | LUXEON 3030 Square |
| Compatibility | : | 2835/3030 |
| Typ.Efficiency | : | 93% |
| Fasten | : | Screw |
| IP class | : | N/A |
| Zhaga | : | YES |
| RoHS | : | YES |
| Color | : | Clear |

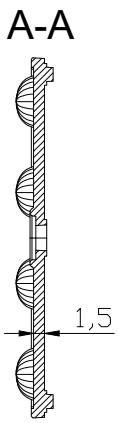


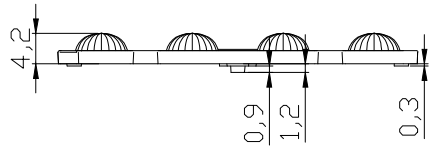
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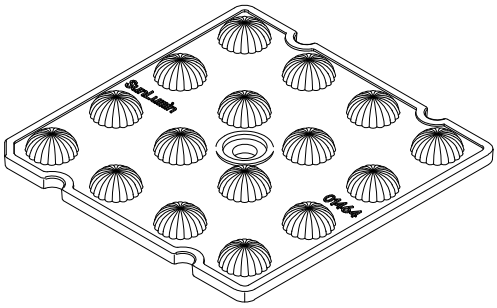
# 产品图 Product drawing

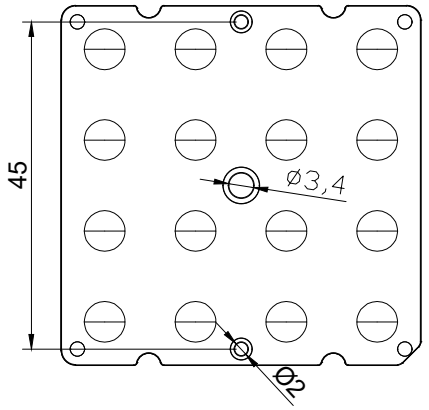
| 版本 REV | 日期 DATE | 变更内容 CHANGE（ITEM） |
|---|---|---|
| A0 | 2025-10-21 | 新建 NEW |
| | | |
| | | |




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. 未标注公差的尺寸参考GBT14486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 GBT14486 tolerance table.

SUNLUMIN OPTICS CO.,LTD

| | | | |
|---|---|---|---|
| 产品名称 Item name | S01.01.01.464_ MAXWELL-16-90 | 产品材质 Product material | PC |
| 图法 View | 第三视角 | 设计 Desiganer | Junjie |
| 比例 Share | 1:1 | 审核 Checked | YeJingsi |
| 单位 Unit | MM | 批核 Approved | Eric |

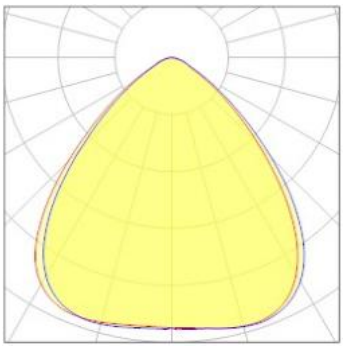
A4

# OPTICAL RESULTS

## 1）PHOTOMETRIC DATA(MEASURED):

LUMILEDS

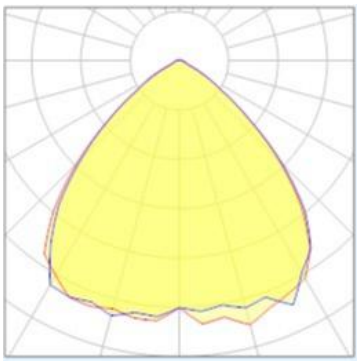
| | |
|---|---|
| LED model | LUXEON 3030 Square |
| Light colour | White |
| LEDs/each optic | 1 |
| FWHM | H89.1°,V89.1° |
| FWTM | H123.1°,V122.9° |
| Required components: | |
| | Glass |



## 2）PHOTOMETRIC DATA(SMIULATION):

OSRAM
Opto Semiconductors

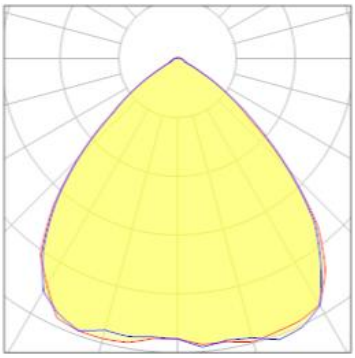
| | |
|---|---|
| LED model | GW_P9LR35.pm |
| Light colour | White |
| LEDs/each optic | 1 |
| FWHM | H91.3°,V91.4° |
| FWTM | H118.2°,V117.8° |
| Required components: | |
| | Glass |



## 3）PHOTOMETRIC DATA(SMIULATION):

CREE LED

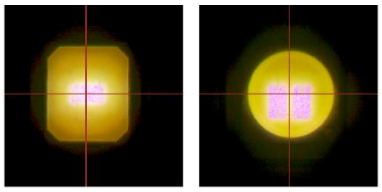
| | |
|---|---|
| LED model | CREE JK3030-6V |
| Light colour | White |
| LEDs/each optic | 1 |
| FWHM | H90.4°,V89.8° |
| FWTM | H118.2°,117.8° |
| Required components: | |
| | Glass |



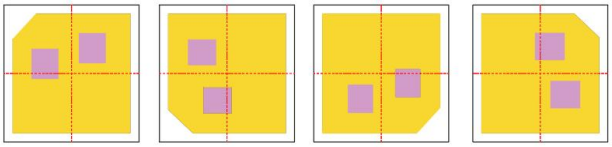
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# Usage and Maintenance

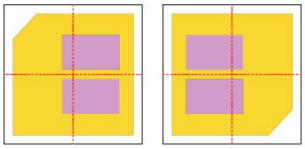
1)Due to varying asymmetric chip locations, especially on mid-power LEDs, the exact source of light is not always located at the centre of the LED packet. SunLumin recommends rotating such LEDs on the PCB in a regular pattern for smoother results.



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: 3-Nov-26