

DATASHEET

S01.01.01.438_MAXWELL-12-90

Street& Area Lighting:

~90° wide beam.

MAXWELL-12 SERIES, $50 \times 50 \text{ mm}$ 12 lens (2X5+2) arrays optimized for flat 5050 size LED packages.

General Information

Lens Material : Optical PC

Size : 50X50mm

typ.FWHM : 90°

Design LED : GE-5050W Square LES 30V

Compatibility : 2835/3030/5050

typ.Efficiency: 92%

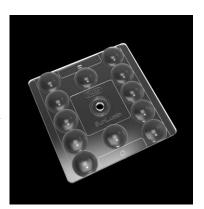
Fasten : Screw

IP class : N/A

Zhaga : N/A

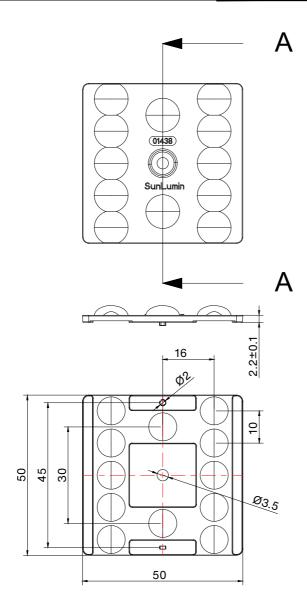
RoHS : YES

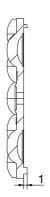
Color : Clear



产品图 Product drawing

版本 REV	日期 DATE	变更内容 CHANGE (ITEM)	
A0	2025-5-12	新建 NEW	





SECTION A-A

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	S01.01.01.438_	产品材质	PC
Item name	MAXWELL-12-90	Product material	
图法	⊕ □	设计	Hay
View	第三视角	Designed	
比例 Scale	1:1	审核 Checked	JG Wu
单位 Unit	ММ	批核 Approved	JG Wu



OPTICAL RESULTS

1) PHOTOMETRIC DATA(MEASURED):



LED model GE-5050W Square LES 30V

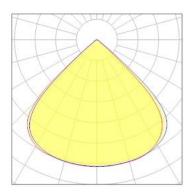
Light colour White

LEDs/each optic 1

FWHM H92.5°,V93.5° FWTM H102°,V104.1°

Required components:

Glass



2) PHOTOMETRIC DATA(MEASURED):



LED model LUXEON 5050 Square LES 6V

Light colour White

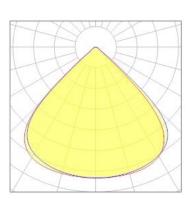
LEDs/each optic 1

FWHM H92.8°,V90.9°

FWTM H102.8°,V100.9°

Required components:

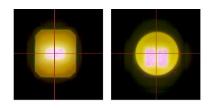
Glass



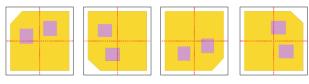


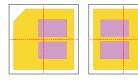
Usage and Maintenance

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: 29-Jul-25