DATASHEET

S01.01.01.507_MAXWELL-8-120C

Street & Area Lighting:

~120° wide beam.

50 x 50 mm 8 lens (3+2+3) arrays for up to flat 5050 size LED packages. The position of LED meet the EU ZHAGA standard.

Beam for area and street lighting such as parks and pedestrian walkways.

General Information

Lens Material	:	Optical PC
Size	:	50X50mm
Typ.FWHM	:	120°
Design LED	:	LUXEON 5050 Square
Compatibility	:	2835/3030/3535/5050
typ.Efficiency	:	90%
Fasten	:	Screw
IP class	:	N/A
Zhaga	:	YES
RoHS	:	YES
Color	:	Clear



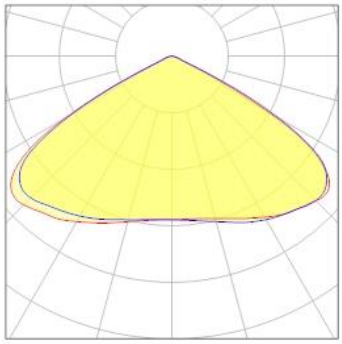
SUNLUMIN OPTICS CO.,LTD
address:
Shenzhen, Guangdong Province, China
E
info@sunlumin-optics.com
www.
sunlumin-optics.com

OPTICAL RESULTS

1）PHOTOMETRIC DATA(MEASURED):

LUMILEDS

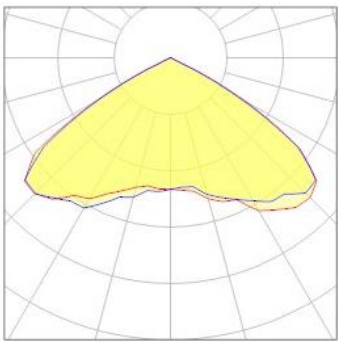
LED model	LUXEON 5050 Square
Light colour	White
LEDs/each optic	1
FWHM	H121.2,V122
FWTM	H130.8,V131.6
Required components:	
	Glass



2）PHOTOMETRIC DATA(SIMULATED):

OSRAM
Opto Semiconductors

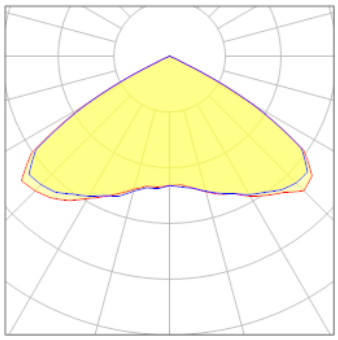
LED model	GW_P9LR35em
Light colour	White
LEDs/each optic	1
FWHM	H117.9°,V118.2°
FWTM	H128.3°,V128.7°
Required components:	
	Glass



3）PHOTOMETRIC DATA(SIMULATED):

CREE LED

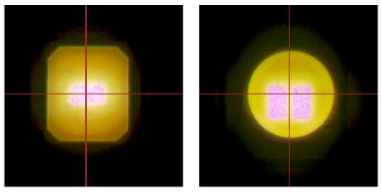
LED model	JR5050 Square
Light colour	White
LEDs/each optic	1
FWHM	H120°,V120.6°
FWTM	H129°,V129.5°
Required components:	
	Glass



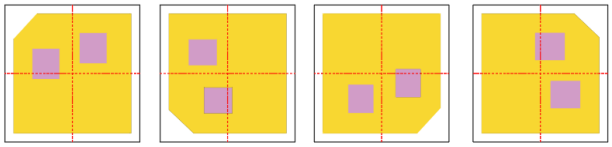
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Usage and Maintenance

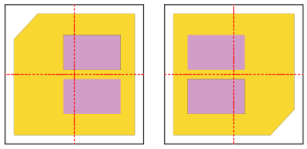
1)Due to varying asymmetric chip locations, especially on mid-power LEDs, the exact source of light is not always located at the centre of the LED packet. SunLumin recommends rotating such LEDs on the PCB in a regular pattern for smoother results.



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: 27-Oct-26