SPORT-2X2-S4

Slightly asymmetric ~40° spot beam with minimum spill light



SPECIFICATION:

Dimensions	50.0 x 50.0 mm
Height	14.4 mm
Fastening	screw
ROHS compliant	yes

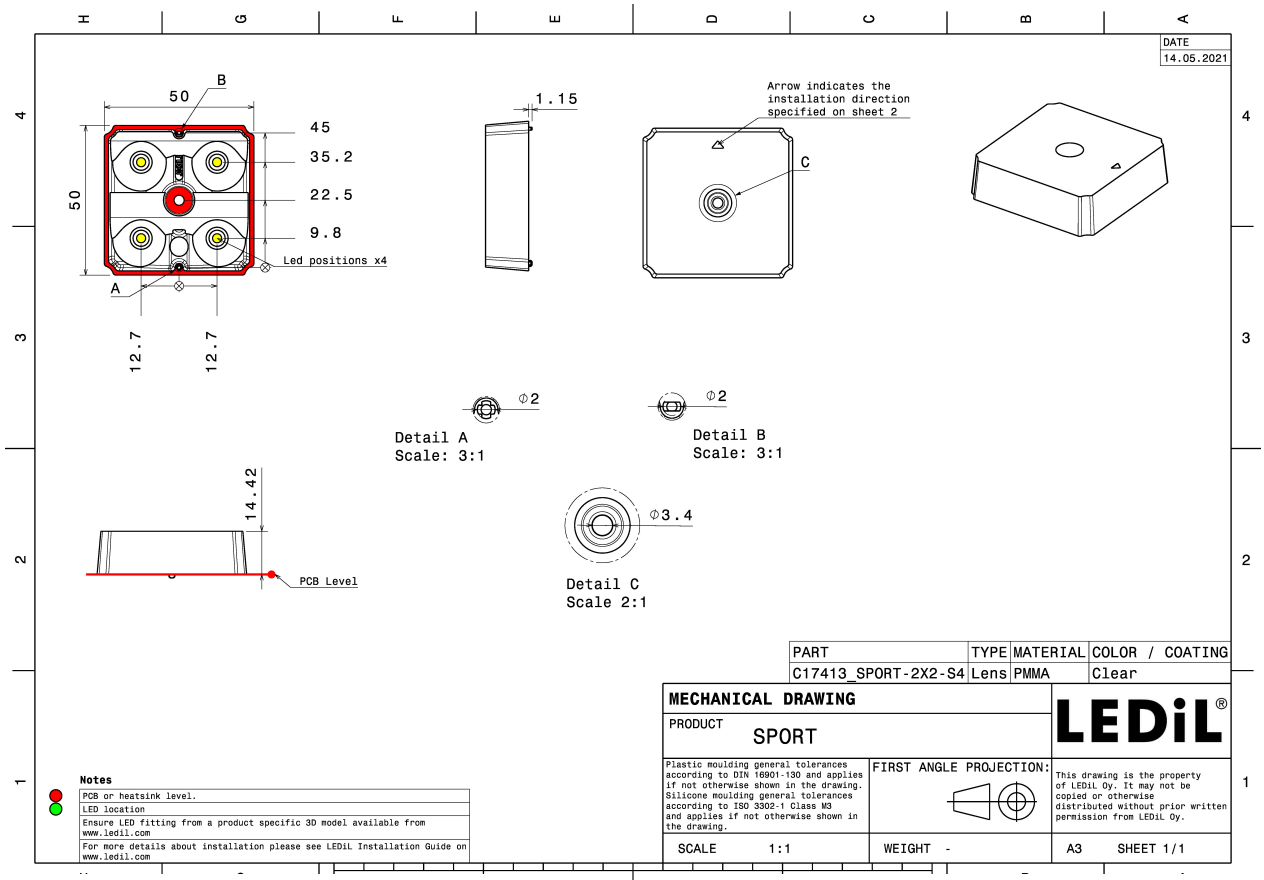
MATERIALS:

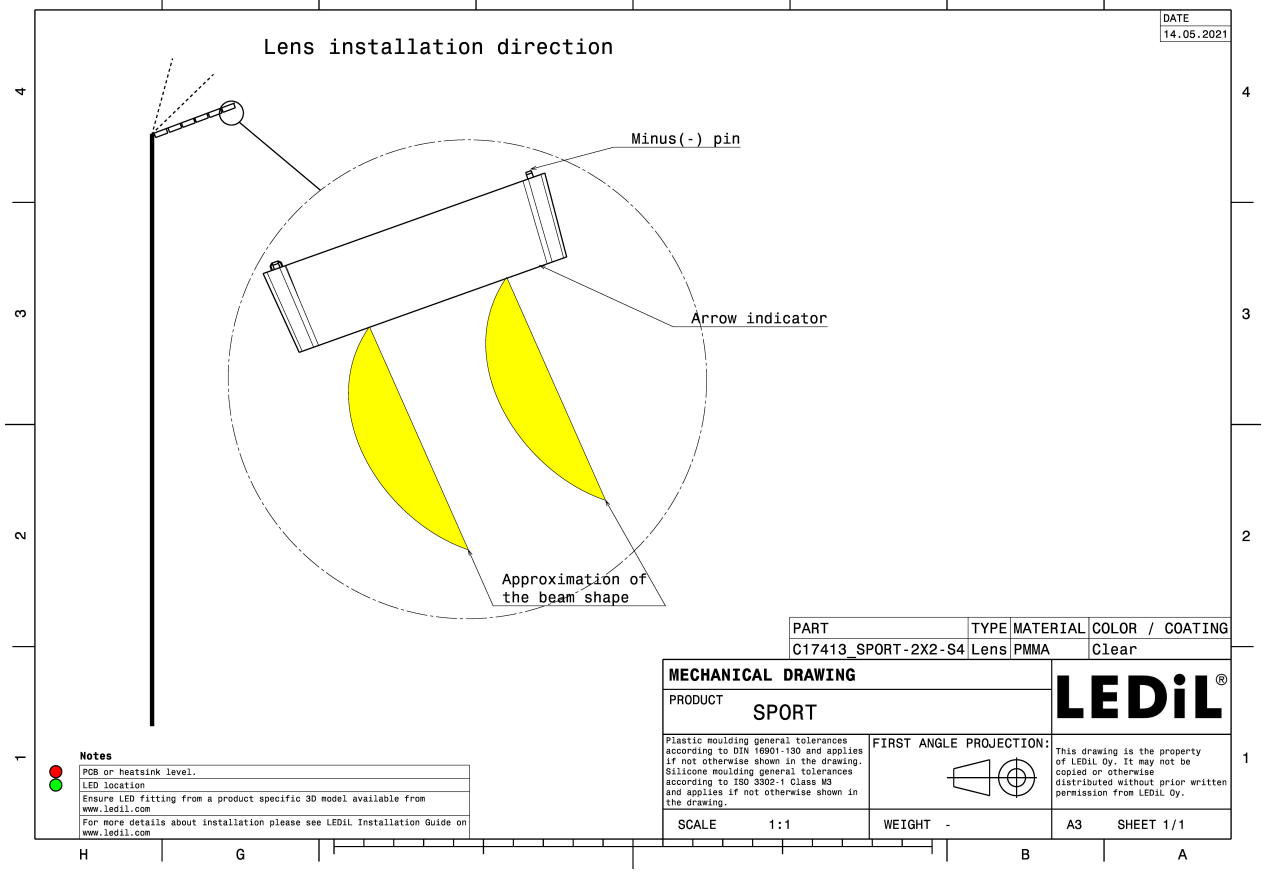
Component	Type	Material	Colour	Finish	Length (mm)
SPORT-2X2-S4	Multi-lens	PMMA	clear		

ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
C17413_SPORT-2X2-S4 » Box size: 480 x 280 x 300 mm	476	140	28	10.2

LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.





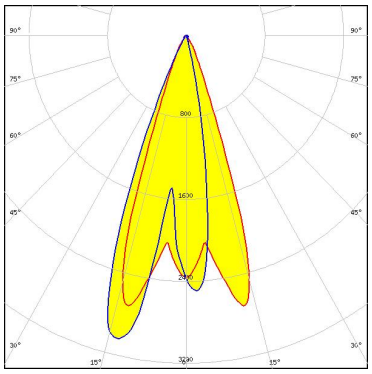
See also our general installation guide: www.ledil.com/installation_guide

LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (MEASURED):

CREE LEDs

LED	XP-G4
FWHM / FWTM	Asymmetric
Efficiency	97 %
Peak intensity	4.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

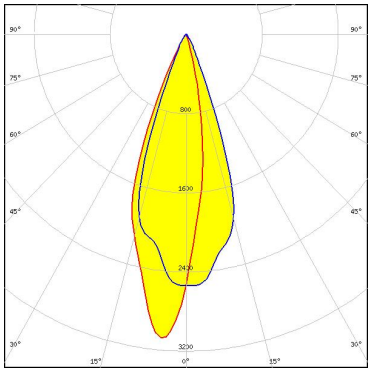


Light distribution files

NICHIA

LED	NV4WB35AM
FWHM / FWTM	Asymmetric
Efficiency	88 %
Peak intensity	3.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	





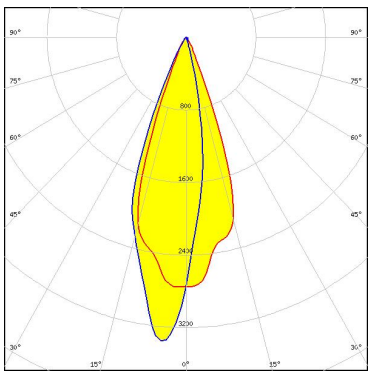
Protective plate, glass

Light distribution files

NICHIA

LED	NV4WB35AM
FWHM / FWTM	Asymmetric
Efficiency	96 %
Peak intensity	3.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	





Light distribution files

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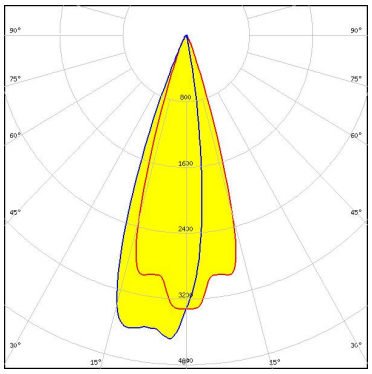
OPTICAL RESULTS (MEASURED):

OSRAM
Opto Semiconductors

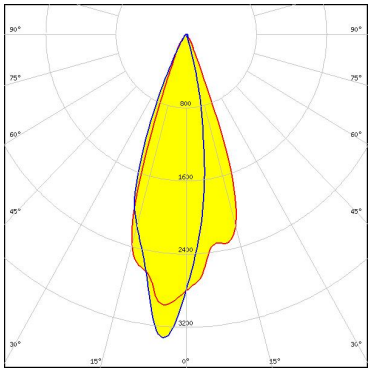
LED	OSCONIQ C 3030
FWHM / FWTM	Asymmetric
Efficiency	97 %
Peak intensity	4.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

TEPCOMP
group

LED	PassivePAQ-R-274x51-NI0-21K-857-5
FWHM / FWTM	Asymmetric
Efficiency	97 %
Peak intensity	3.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



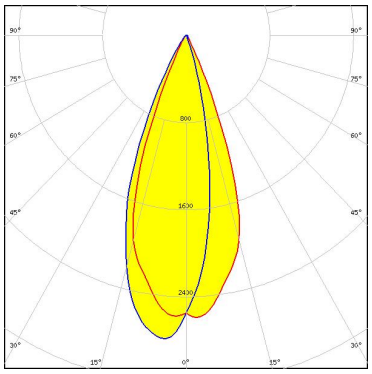
Light distribution files

LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (SIMULATED):

CREE LEDs

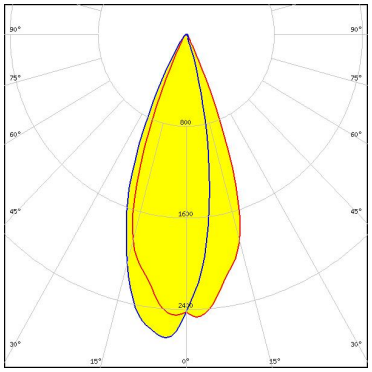
LED	J Series 5050 Round LES
FWHM / FWTM	Asymmetric
Efficiency	97 %
Peak intensity	2.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

CREE LEDs

LED	J Series 5050 Round LES
FWHM / FWTM	Asymmetric
Efficiency	92 %
Peak intensity	2.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

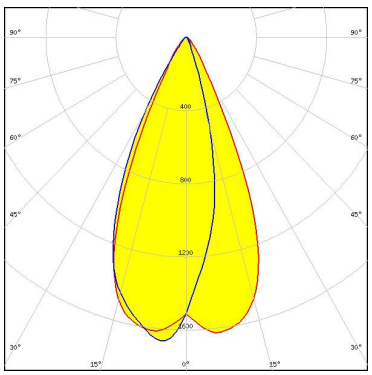


Protective plate, glass

Light distribution files

CREE LEDs

LED	XHP35.2 HD
FWHM / FWTM	Asymmetric
Efficiency	88 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Protective plate, glass

Light distribution files

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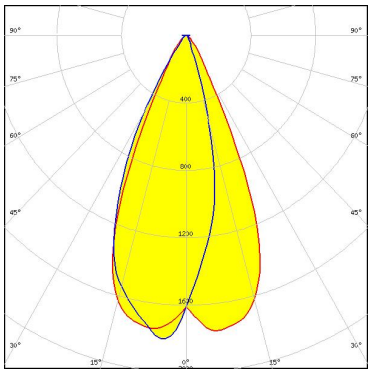
OPTICAL RESULTS (SIMULATED):

CREE LEDs

LED	XHP35.2 HD
FWHM / FWTM	Asymmetric
Efficiency	96 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

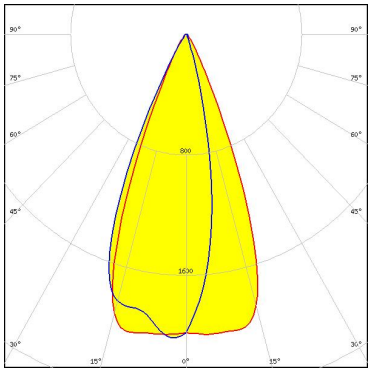


Light distribution files

CREE LEDs

LED	XHP35.2 HI
FWHM / FWTM	Asymmetric
Efficiency	88 %
Peak intensity	2.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

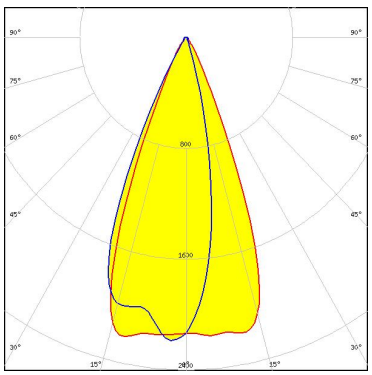
Protective plate, glass



Light distribution files

CREE LEDs

LED	XHP35.2 HI
FWHM / FWTM	Asymmetric
Efficiency	96 %
Peak intensity	2.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

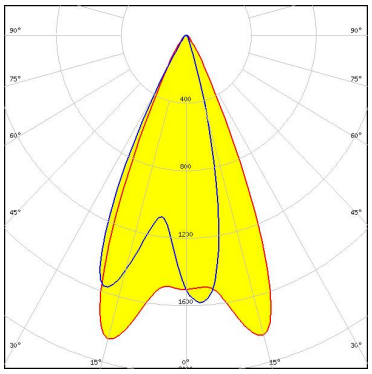
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (SIMULATED):

CREE LEDs

LED	XM-L3
FWHM / FWTM	Asymmetric
Efficiency	89 %
Peak intensity	2.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

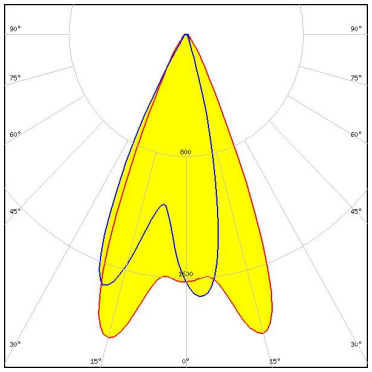
Protective plate, glass



Light distribution files

CREE LEDs

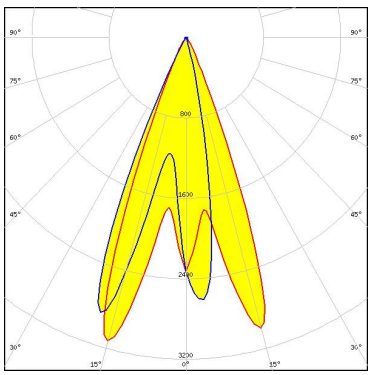
LED	XM-L3
FWHM / FWTM	Asymmetric
Efficiency	96 %
Peak intensity	2.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

CREE LEDs

LED	XP-G2 HE
FWHM / FWTM	Asymmetric
Efficiency	97 %
Peak intensity	4.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

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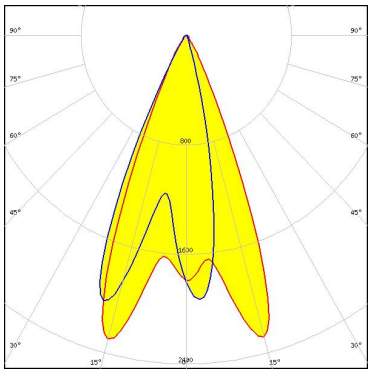
OPTICAL RESULTS (SIMULATED):

CREE LEDs

LED	XP-G3
FWHM / FWTM	Asymmetric
Efficiency	91 %
Peak intensity	2.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

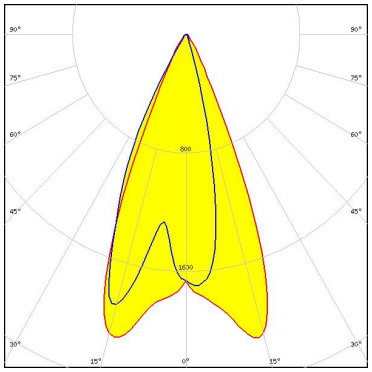


Protective plate, glass

Light distribution files

CREE LEDs

LED	XP-L HD
FWHM / FWTM	Asymmetric
Efficiency	92 %
Peak intensity	2.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

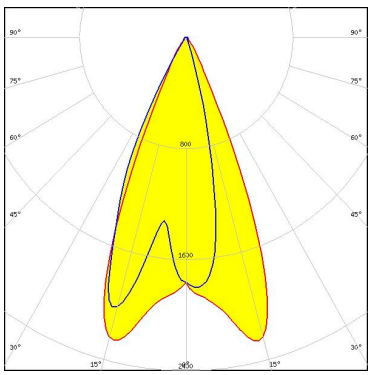


Protective plate, glass

Light distribution files

CREE LEDs

LED	XP-L HD
FWHM / FWTM	Asymmetric
Efficiency	97 %
Peak intensity	2.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

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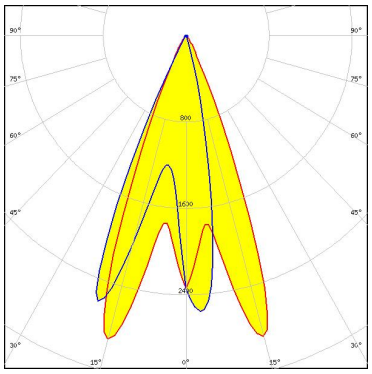
OPTICAL RESULTS (SIMULATED):

CREE LEDs

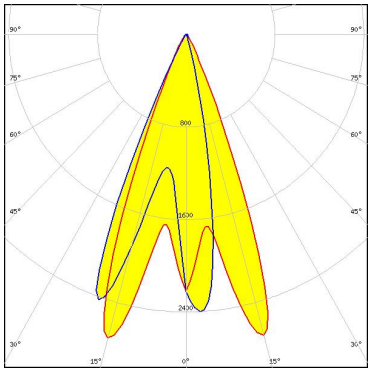
LED	XP-L HI
FWHM / FWTM	Asymmetric
Efficiency	97 %
Peak intensity	3.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

CREE LEDs

LED	XP-L HI
FWHM / FWTM	Asymmetric
Efficiency	92 %
Peak intensity	3.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

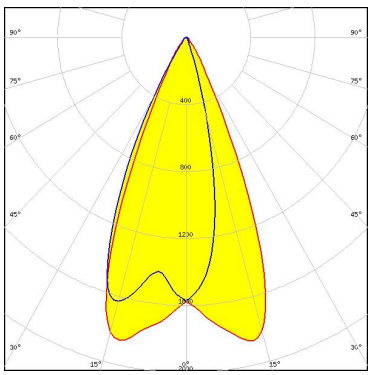


Protective plate, glass

Light distribution files

CREE LEDs

LED	XP-L2
FWHM / FWTM	Asymmetric
Efficiency	88 %
Peak intensity	2.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Protective plate, glass

Light distribution files

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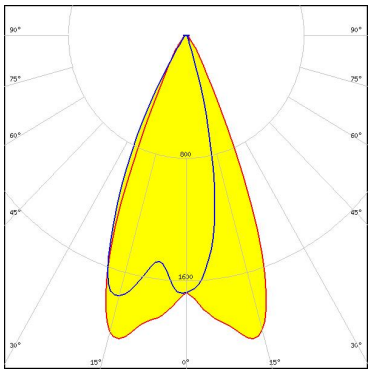
OPTICAL RESULTS (SIMULATED):

CREE LEDs

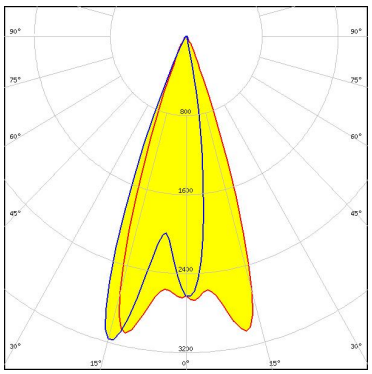
LED	XP-L2
FWHM / FWTM	Asymmetric
Efficiency	96 %
Peak intensity	2.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

LUMILEDS

LED	LUXEON 3030 2D (Round LES)
FWHM / FWTM	Asymmetric
Efficiency	92 %
Peak intensity	4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

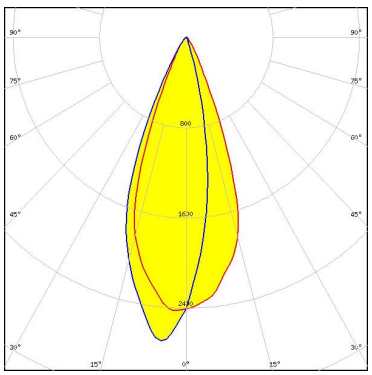


Protective plate, glass

Light distribution files

LUMILEDS

LED	LUXEON 5050 HE
FWHM / FWTM	Asymmetric
Efficiency	97 %
Peak intensity	2.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

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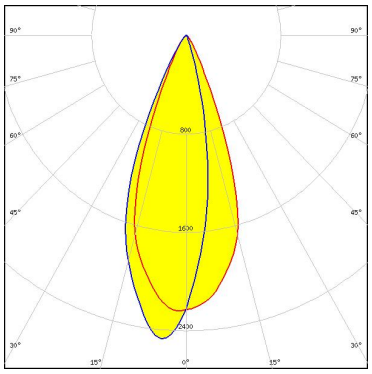
OPTICAL RESULTS (SIMULATED):

LUMILEDS

LED	LUXEON 5050 HE
FWHM / FWTM	Asymmetric
Efficiency	89 %
Peak intensity	2.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

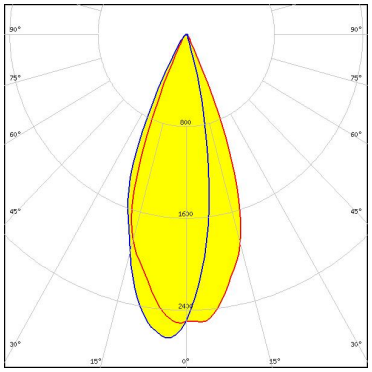


Protective plate, glass

Light distribution files

LUMILEDS

LED	LUXEON 5050 Round LES
FWHM / FWTM	Asymmetric
Efficiency	92 %
Peak intensity	2.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

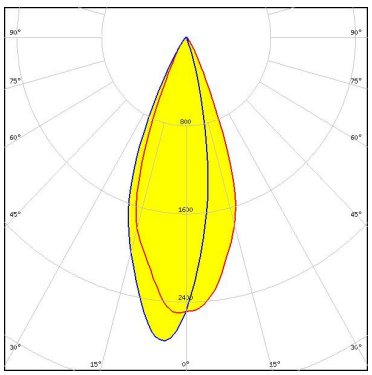


Protective plate, glass

Light distribution files

LUMILEDS

LED	LUXEON 5050 Square LES
FWHM / FWTM	Asymmetric
Efficiency	97 %
Peak intensity	2.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

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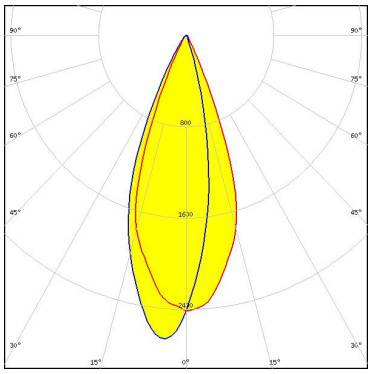
OPTICAL RESULTS (SIMULATED):

LUMILEDS

LED	LUXEON 5050 Square LES
FWHM / FWTM	Asymmetric
Efficiency	92 %
Peak intensity	2.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

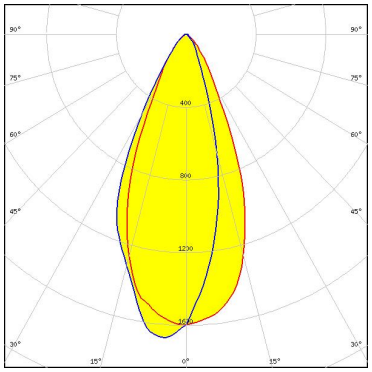


Protective plate, glass

Light distribution files

LUMILEDS

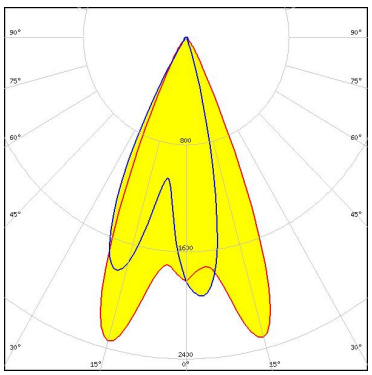
LED	LUXEON 7070
FWHM / FWTM	Asymmetric
Efficiency	96 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

LUMILEDS

LED	LUXEON XR-HL2X (L2H2-xxxxxxxMLU010)
FWHM / FWTM	Asymmetric
Efficiency	97 %
Peak intensity	2.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



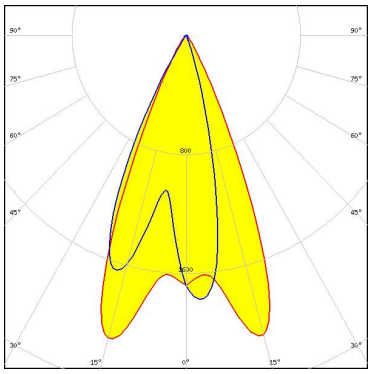
Light distribution files

LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (SIMULATED):

LUMILEDS

LED	LUXEON XR-HL2X (L2H2-xxxxxxxMLU010)
FWHM / FWTM	Asymmetric
Efficiency	89 %
Peak intensity	2.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

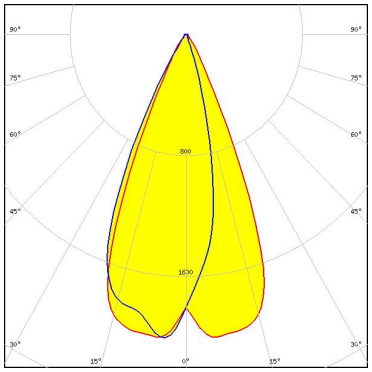


Protective plate, glass

Light distribution files

LUMINUS

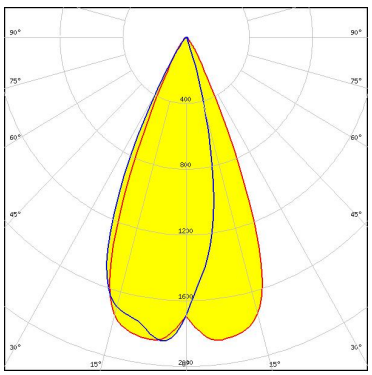
LED	SST-70X-WCS
FWHM / FWTM	Asymmetric
Efficiency	97 %
Peak intensity	2.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

LUMINUS

LED	SST-70X-WCS
FWHM / FWTM	Asymmetric
Efficiency	89 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Protective plate, glass

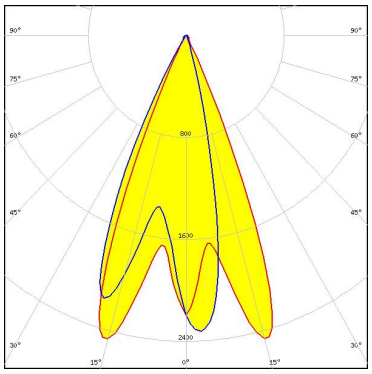
Light distribution files

LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (SIMULATED):

NICHIA

LED	NVSW219F
FWHM / FWTM	Asymmetric
Efficiency	92 %
Peak intensity	3.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

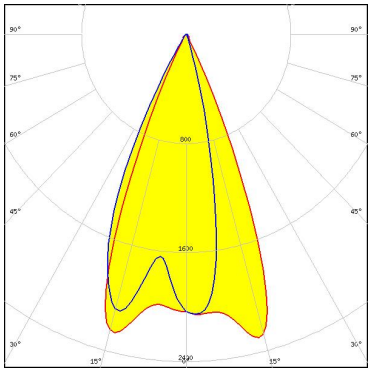


Protective plate, glass

Light distribution files

NICHIA

LED	NVSW3x9A
FWHM / FWTM	Asymmetric
Efficiency	91 %
Peak intensity	2.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

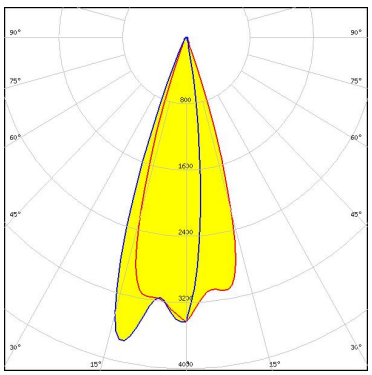


Protective plate, glass

Light distribution files

NICHIA

LED	NVSxE21A
FWHM / FWTM	Asymmetric
Efficiency	89 %
Peak intensity	4.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Protective plate, glass

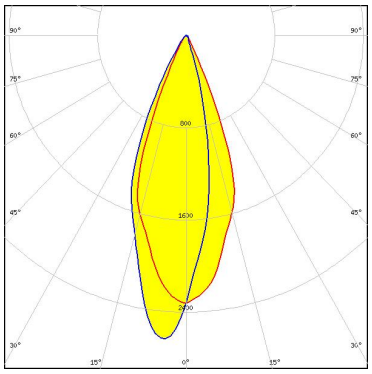
Light distribution files

LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

LED	Duris S8
FWHM / FWTM	Asymmetric
Efficiency	92 %
Peak intensity	2.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Amount of Blue light (380-500 nm)	0.1 %
Required components:	

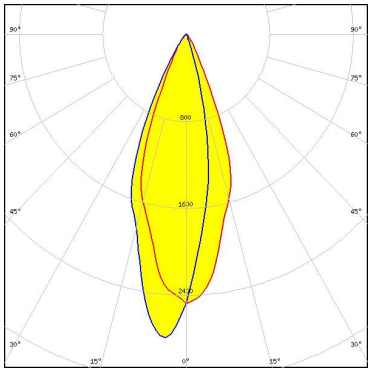


Light distribution files

Protective plate, glass

OSRAM
Opto Semiconductors

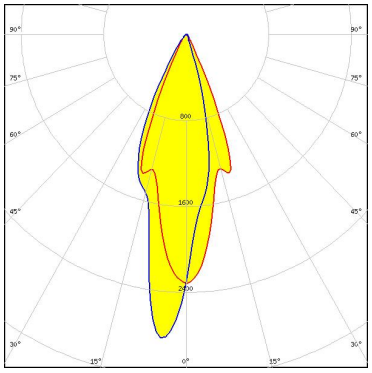
LED	Duris S8
FWHM / FWTM	Asymmetric
Efficiency	97 %
Peak intensity	2.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

OSRAM
Opto Semiconductors

LED	OSCONIQ C 2424
FWHM / FWTM	Asymmetric
Efficiency	97 %
Peak intensity	2.9 cd/lm
LEDs/each optic	4
Light colour/type	White
Required components:	



Light distribution files

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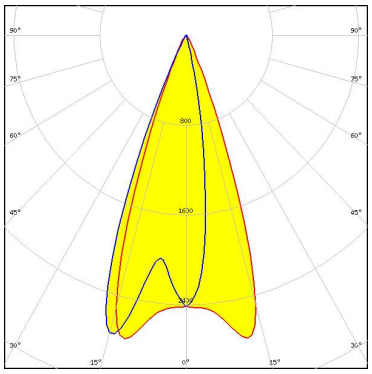
OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

LED	OSCONIQ C 3030
FWHM / FWTM	Asymmetric
Efficiency	90 %
Peak intensity	3.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

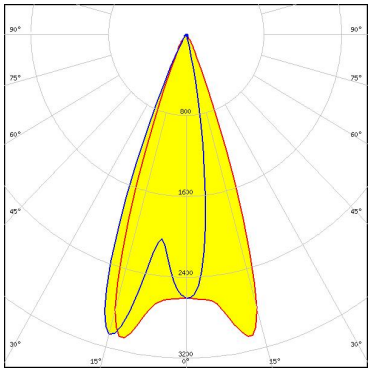


Protective plate, glass

Light distribution files

OSRAM
Opto Semiconductors

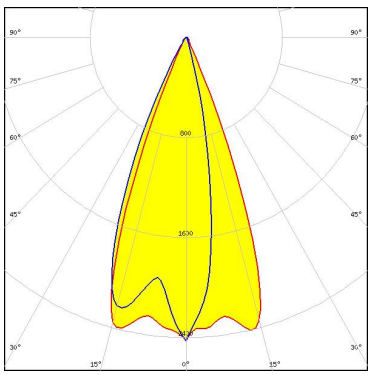
LED	OSCONIQ C 3030
FWHM / FWTM	Asymmetric
Efficiency	97 %
Peak intensity	4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

OSRAM
Opto Semiconductors

LED	OSCONIQ P 3737 (3W version)
FWHM / FWTM	Asymmetric
Efficiency	92 %
Peak intensity	2.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Protective plate, glass

Light distribution files

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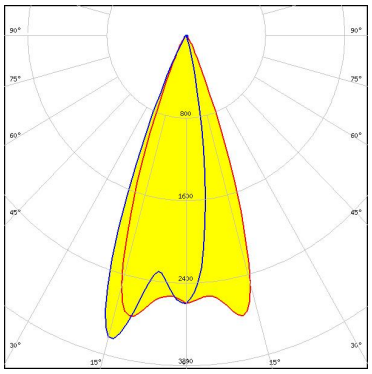
OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

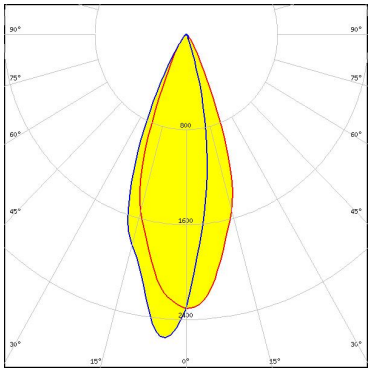
LED	OSCONIQ P 3737 Flat
FWHM / FWTM	Asymmetric
Efficiency	97 %
Peak intensity	3.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

OSRAM
Opto Semiconductors

LED	OSCONIQ S 5050
FWHM / FWTM	Asymmetric
Efficiency	89 %
Peak intensity	2.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

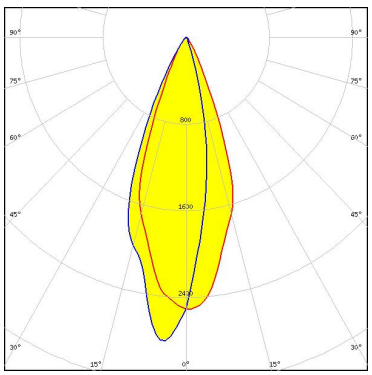


Protective plate, glass

Light distribution files

OSRAM
Opto Semiconductors

LED	OSCONIQ S 5050
FWHM / FWTM	Asymmetric
Efficiency	97 %
Peak intensity	2.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

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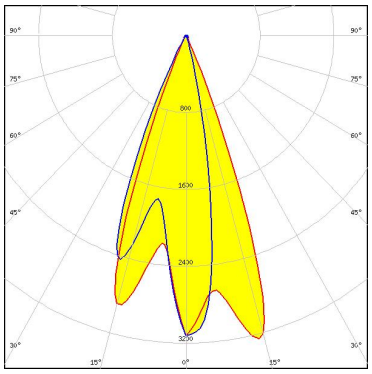
OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

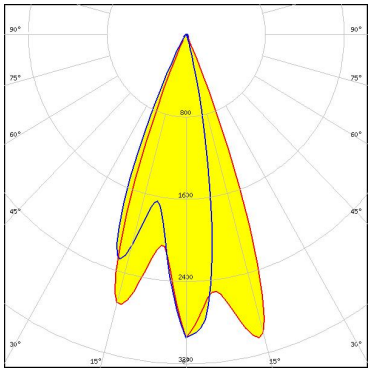
LED	OSLON Square CSSRM2/CSSRM3
FWHM / FWTM	Asymmetric
Efficiency	96 %
Peak intensity	4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

OSRAM
Opto Semiconductors

LED	OSLON Square CSSRM2/CSSRM3
FWHM / FWTM	Asymmetric
Efficiency	91 %
Peak intensity	3.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

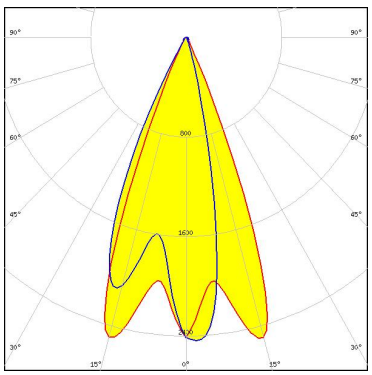


Protective plate, glass

Light distribution files

SAMSUNG

LED	LH351B
FWHM / FWTM	Asymmetric
Efficiency	92 %
Peak intensity	3.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Protective plate, glass

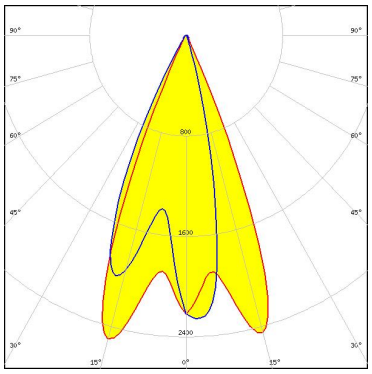
Light distribution files

LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (SIMULATED):

SAMSUNG

LED	LH351C
FWHM / FWTM	Asymmetric
Efficiency	92 %
Peak intensity	3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

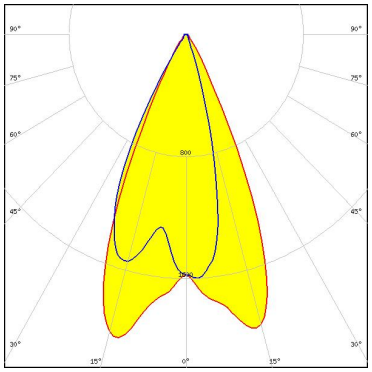


Protective plate, glass

Light distribution files

SAMSUNG

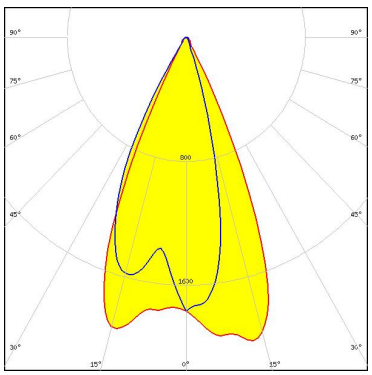
LED	LH351D
FWHM / FWTM	Asymmetric
Efficiency	96 %
Peak intensity	2.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

SAMSUNG

LED	LH351D
FWHM / FWTM	Asymmetric
Efficiency	91 %
Peak intensity	2.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Protective plate, glass

Light distribution files

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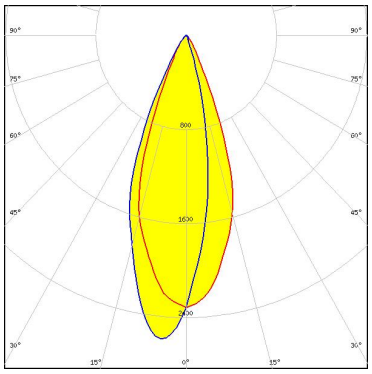
OPTICAL RESULTS (SIMULATED):

SAMSUNG

LED	LH502C
FWHM / FWTM	Asymmetric
Efficiency	90 %
Peak intensity	2.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

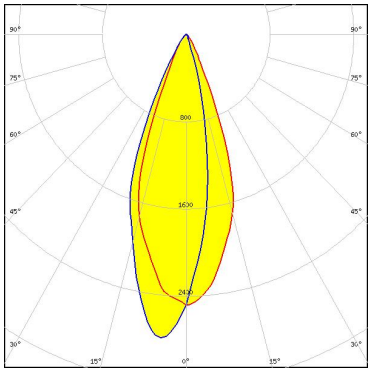
Protective plate, glass



Light distribution files

SAMSUNG

LED	LH502C
FWHM / FWTM	Asymmetric
Efficiency	97 %
Peak intensity	2.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

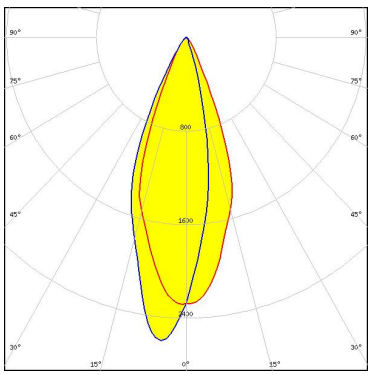


Light distribution files

SEOUL SEMICONDUCTOR

LED	SEOUL DC 5050 6V
FWHM / FWTM	Asymmetric
Efficiency	92 %
Peak intensity	2.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

Protective plate, glass



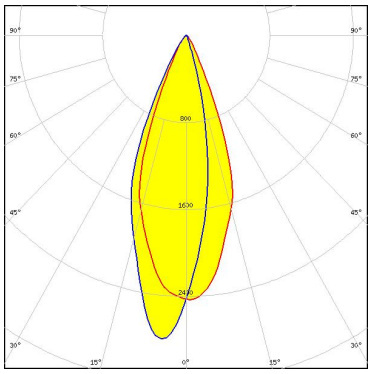
Light distribution files

LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (SIMULATED):

SEOUL SEMICONDUCTOR

LED	SEOUL DC 5050 6V
FWHM / FWTM	Asymmetric
Efficiency	97 %
Peak intensity	2.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

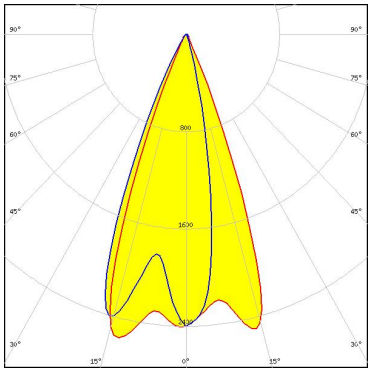


Light distribution files

SEOUL SEMICONDUCTOR

LED	Z5M3
FWHM / FWTM	Asymmetric
Efficiency	91 %
Peak intensity	3.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

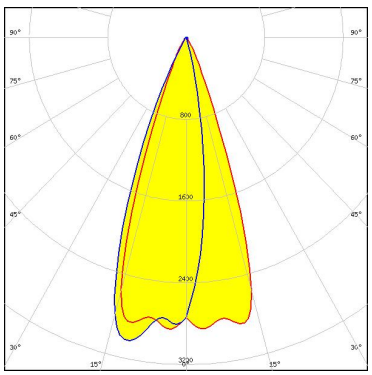
Protective plate, glass



Light distribution files

SEOUL SEMICONDUCTOR

LED	Z5M4
FWHM / FWTM	Asymmetric
Efficiency	97 %
Peak intensity	3.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

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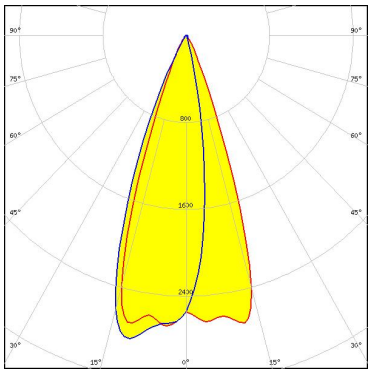
OPTICAL RESULTS (SIMULATED):

SEOUL SEMICONDUCTOR

LED	Z5M4
FWHM / FWTM	Asymmetric
Efficiency	93 %
Peak intensity	3.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

Protective plate, glass

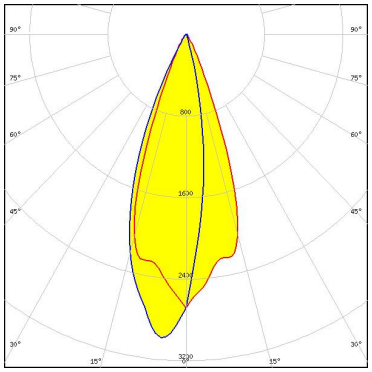


Light distribution files

SEOUL SEMICONDUCTOR

LED	Z5M5
FWHM / FWTM	Asymmetric
Efficiency	92 %
Peak intensity	3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

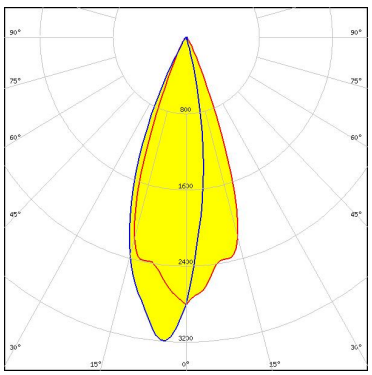
Protective plate, glass



Light distribution files

SEOUL SEMICONDUCTOR

LED	Z5M5
FWHM / FWTM	Asymmetric
Efficiency	97 %
Peak intensity	3.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

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GENERAL INFORMATION:

NOTE: 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.

MATERIALS:

As part of our continuous research and improvement processes, and to ensure the best possible quality and availability of our products, LEDiL reserves the right to change material grades without notice.

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The measured data in the provided downloadable LEDiL Product Datasheets and Mechanical 2D-Drawings is rounded and provided as reference for planning. LEDiL Oy's optical specifications have been verified by conducting performance testing of the products in accordance with the company's quality system. The reported data are averaged results of multiple measurements with typical variation. LEDiL Oy reserves the right to without prior notification make changes and improvements to its products.

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