LISA3-O-PIN

~15° x 50° oval beam with location pin installation



SPECIFICATION:

Dimensions	Ø 10.0 mm
Height	7.9 mm
Fastening	glue
ROHS compliant	yes

MATERIALS:

Component	Type	Material	Colour	Finish	Length
LISA3-O	Single lens	PMMA	clear		9.9
LISA3-HLD-PIN	Holder	PC	black		9.9

ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
FP16563_LISA3-O-PIN » Box size: 310 x 230 x 60 mm	2000	300	100	1.3

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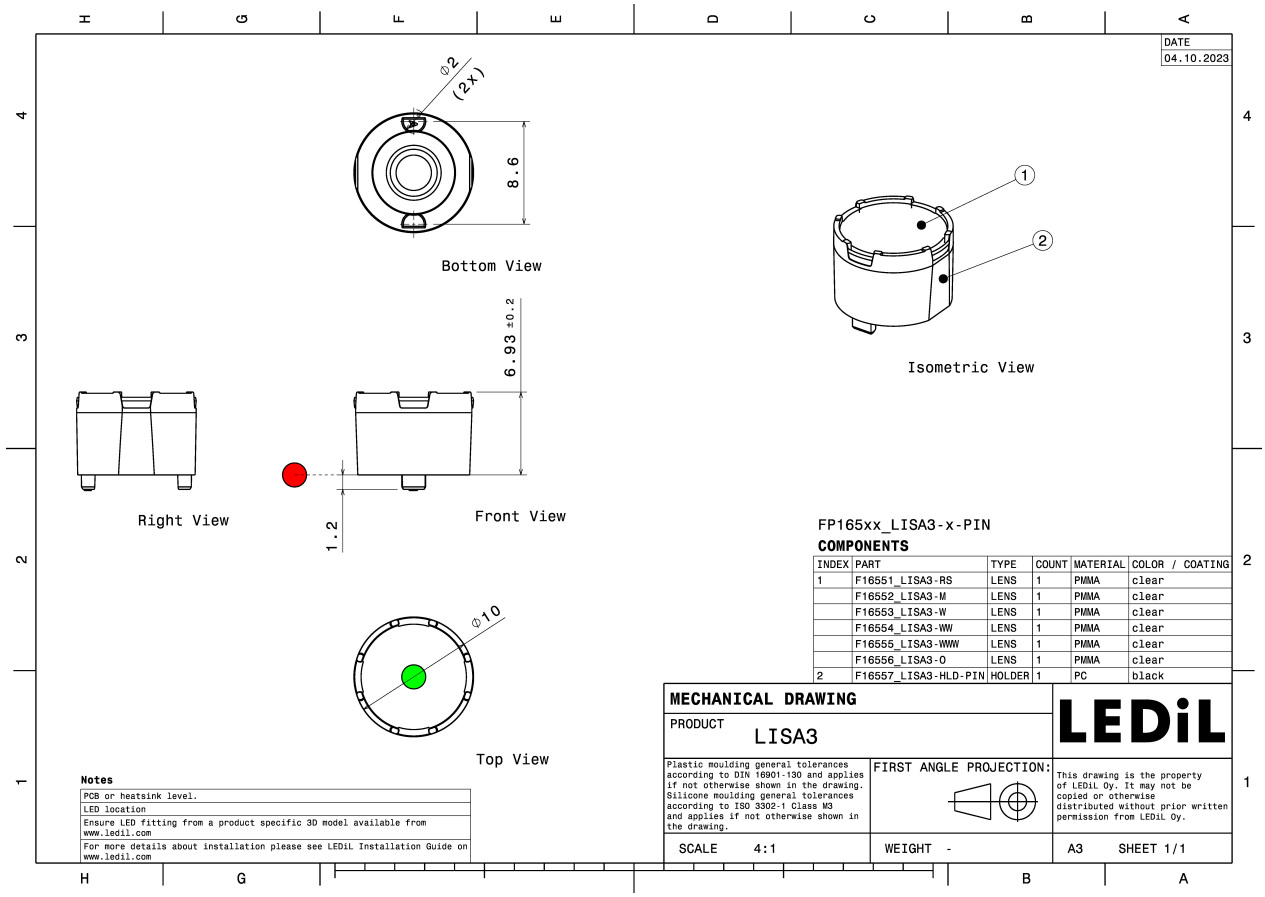

FP165xx_LISA3-x-PIN

COMPONENTS

INDEX	PART	TYPE	COUNT	MATERIAL	COLOR / COATING
1	F16551_LISA3-RS	LENS	1	PMMA	clear
	F16552_LISA3-M	LENS	1	PMMA	clear
	F16553_LISA3-W	LENS	1	PMMA	clear
	F16554_LISA3-WW	LENS	1	PMMA	clear
	F16555_LISA3-WWW	LENS	1	PMMA	clear
	F16556_LISA3-O	LENS	1	PMMA	clear
2	F16557_LISA3-HLD-PIN	HOLDER	1	PC	black

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

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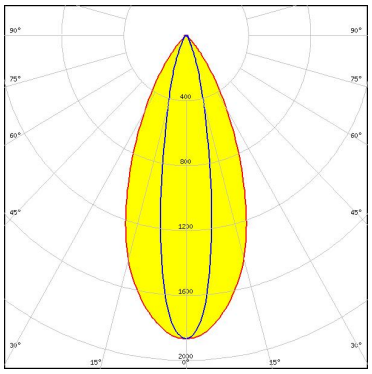
OPTICAL RESULTS (MEASURED):

CREE LEDs

LED	XD16
FWHM / FWTM	45.0 + 20.0° / 78.0 + 43.0°
Efficiency	65 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



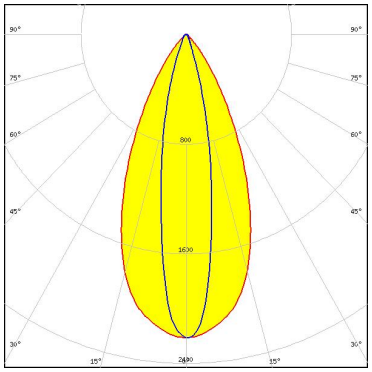


Light distribution files

CREE LEDs

LED	XP-E2
FWHM / FWTM	48.0 + 20.0° / 79.0 + 41.0°
Efficiency	78 %
Peak intensity	2.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



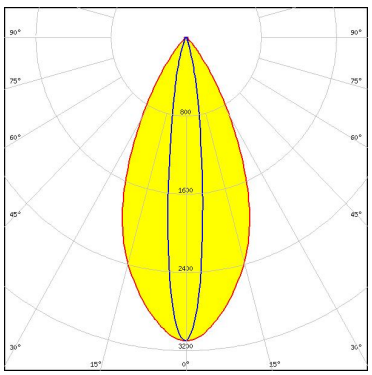


Light distribution files

LUMILEDS

LED	LUXEON CZ
FWHM / FWTM	49.0 + 14.0° / 76.0 + 31.0°
Efficiency	76 %
Peak intensity	3.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	





Light distribution files

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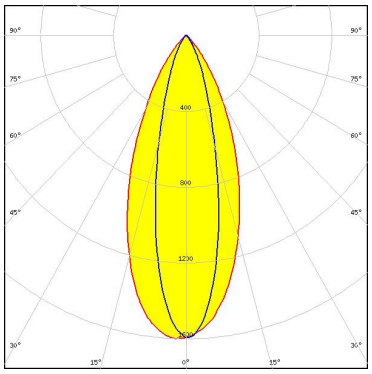
OPTICAL RESULTS (MEASURED):

NICHIA

LED	NF2x757G
FWHM / FWTM	33.0° / 64.0°
Efficiency	66 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



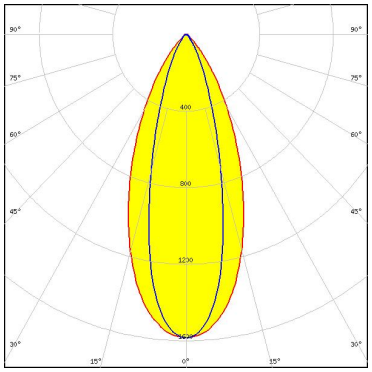


Light distribution files

NICHIA

LED	NVSW219F
FWHM / FWTM	45.0 + 29.0° / 81.0 + 58.0°
Efficiency	77 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



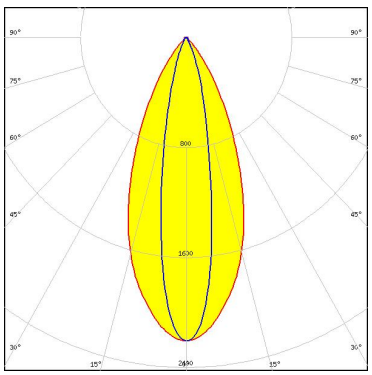


Light distribution files

OSRAM
Opto Semiconductors

LED	OSCONIQ C 2424
FWHM / FWTM	44.0 + 20.0° / 77.0 + 43.0°
Efficiency	74 %
Peak intensity	2.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	





Light distribution files

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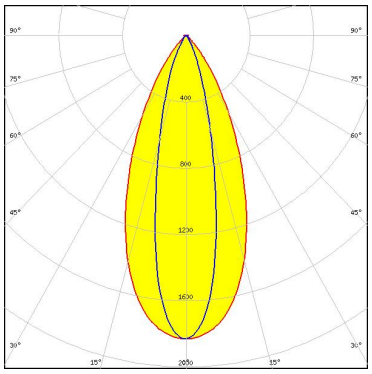
OPTICAL RESULTS (MEASURED):

OSRAM
Opto Semiconductors

LED	OSLON Square CSSRM2/CSSRM3
FWHM / FWTM	46.0 + 24.0° / 80.0 + 50.0°
Efficiency	75 %
Peak intensity	1.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



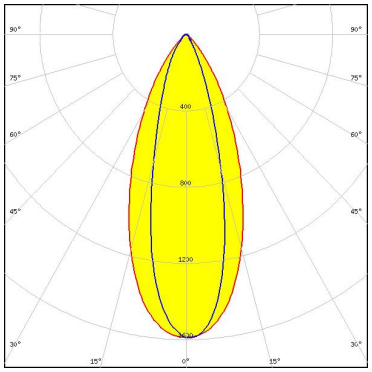


Light distribution files

SAMSUNG

LED	LH351C
FWHM / FWTM	45.0 + 28.0° / 81.0 + 59.0°
Efficiency	77 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



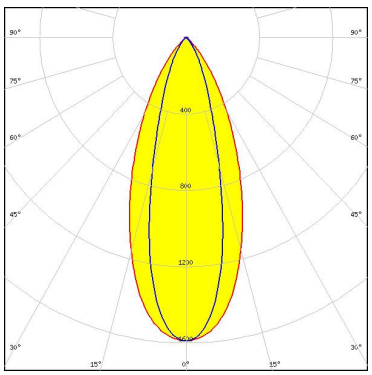


Light distribution files

SEOUL SEMICONDUCTOR

LED	Z5M4
FWHM / FWTM	44.0 + 28.0° / 81.0 + 59.0°
Efficiency	75 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	





Light distribution files

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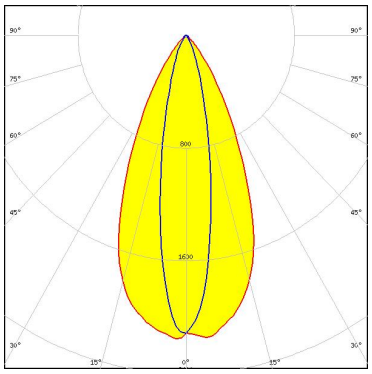
OPTICAL RESULTS (SIMULATED):

CREE LEDs

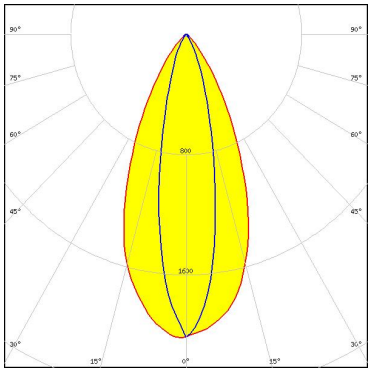
LED	J Series 2835
FWHM / FWTM	48.0 + 20.0° / 78.0 + 44.0°
Efficiency	82 %
Peak intensity	2.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

CREE LEDs

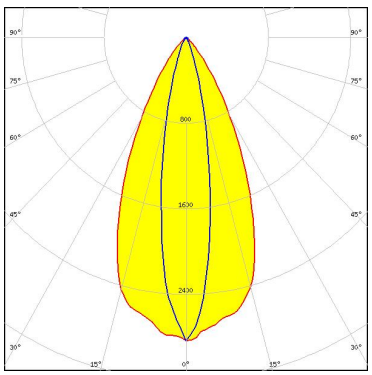
LED	J Series 2835
FWHM / FWTM	46.0 + 22.0° / 78.0 + 48.0°
Efficiency	81 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

CREE LEDs

LED	XD16
FWHM / FWTM	18.0 + 48.0° / 36.0 + 76.0°
Efficiency	75 %
Peak intensity	2.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

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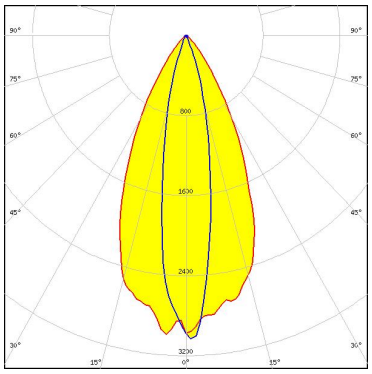
OPTICAL RESULTS (SIMULATED):

CREE LEDs

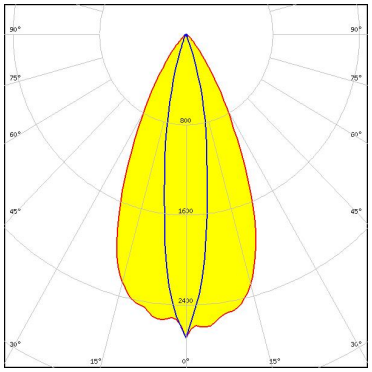
LED	XP-E
FWHM / FWTM	17.0 + 48.0° / 36.0 + 74.0°
Efficiency	85 %
Peak intensity	2.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

CREE LEDs

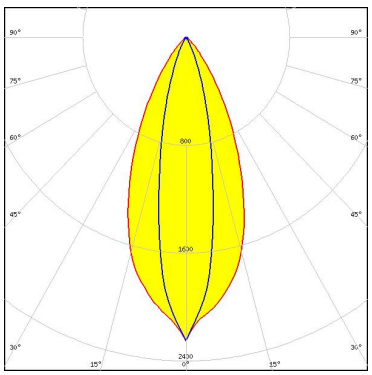
LED	XP-E2
FWHM / FWTM	16.0 + 48.0° / 35.0 + 76.0°
Efficiency	84 %
Peak intensity	2.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

CREE LEDs

LED	XP-G2
FWHM / FWTM	46.0 + 22.0° / 78.0 + 46.0°
Efficiency	83 %
Peak intensity	2.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

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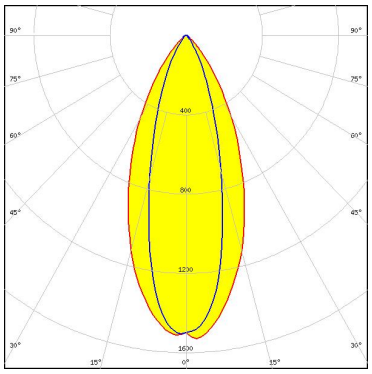
OPTICAL RESULTS (SIMULATED):

CREE LEDs

LED	XP-G2 HE
FWHM / FWTM	46.0 + 29.0° / 84.0 + 61.0°
Efficiency	77 %
Peak intensity	1.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

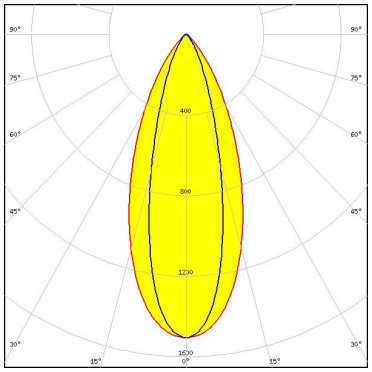


Light distribution files

CREE LEDs

LED	XP-G3
FWHM / FWTM	44.0 + 29.0° / 81.0 + 59.0°
Efficiency	73 %
Peak intensity	1.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

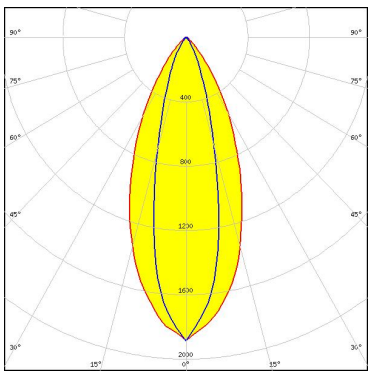




Light distribution files

LUMILEDS

LED	LUXEON HL2X
FWHM / FWTM	44.0 + 25.0° / 80.0 + 53.0°
Efficiency	81 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

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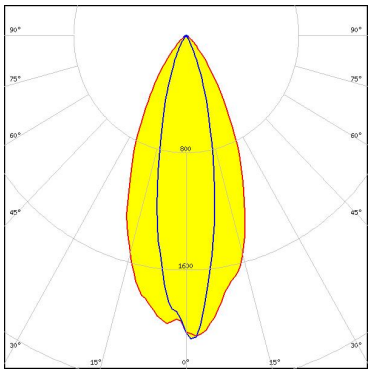
OPTICAL RESULTS (SIMULATED):

LUMILEDS

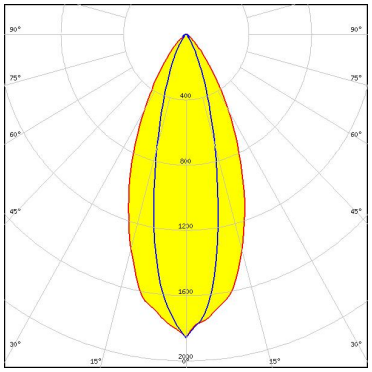
LED	LUXEON TX
FWHM / FWTM	22.0 + 46.0° / 46.0 + 80.0°
Efficiency	80 %
Peak intensity	2.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

LUMILEDS

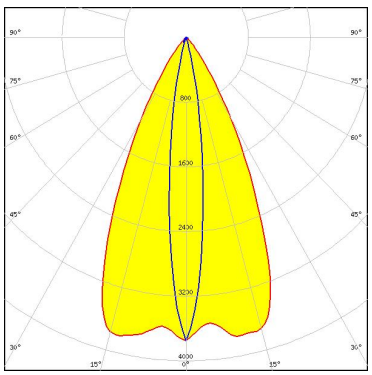
LED	LUXEON V2
FWHM / FWTM	25.0 + 47.0° / 53.0 + 81.0°
Efficiency	83 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

LUMILEDS

LED	LUXEON Z
FWHM / FWTM	12.0 + 50.0° / 25.0 + 74.0°
Efficiency	84 %
Peak intensity	3.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

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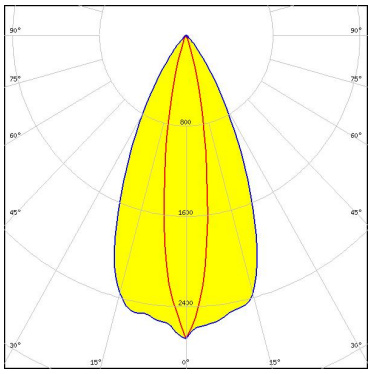
OPTICAL RESULTS (SIMULATED):

LUMILEDS

LED	LUXEON Z ES
FWHM / FWTM	17.0 + 49.0° / 34.0 + 76.0°
Efficiency	84 %
Peak intensity	2.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

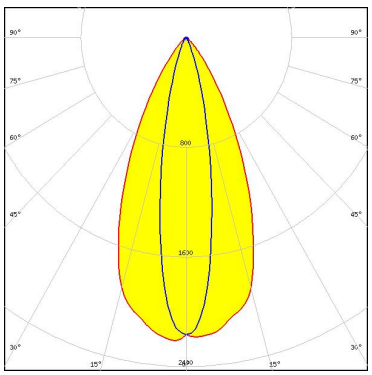
LUMINUS

LED	SST-12
FWHM / FWTM	50.0 + 18.0° / 76.0 + 36.0°
Efficiency	84 %
Peak intensity	2.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

Light distribution files

LUMINUS

LED	SST-20
FWHM / FWTM	48.0 + 20.0° / 78.0 + 41.0°
Efficiency	81 %
Peak intensity	2.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

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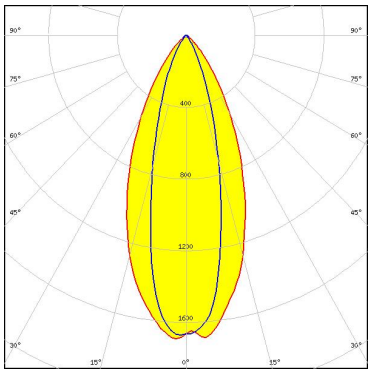
OPTICAL RESULTS (SIMULATED):

NICHIA

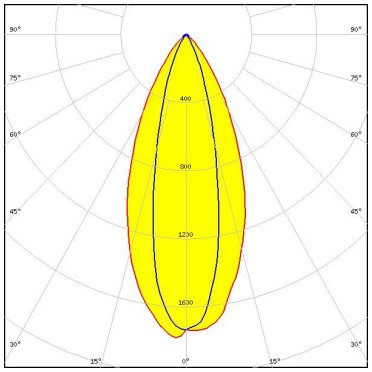
LED	NVSW219F
FWHM / FWTM	46.0 + 28.0° / 82.0 + 57.0°
Efficiency	80 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

NICHIA

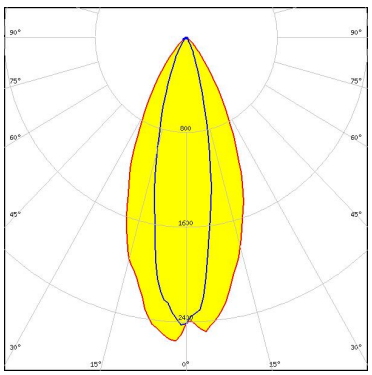
LED	NVSxx19B/NVSxx19C
FWHM / FWTM	25.0 + 45.0° / 52.0 + 81.0°
Efficiency	78 %
Peak intensity	1.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

OSRAM
Opto Semiconductors

LED	Duris S5 (2 chip)
FWHM / FWTM	20.0 + 45.0° / 40.0 + 75.0°
Efficiency	80 %
Peak intensity	2.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

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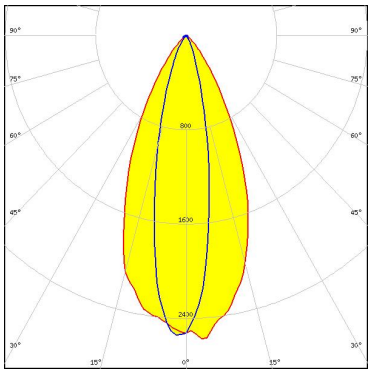
OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

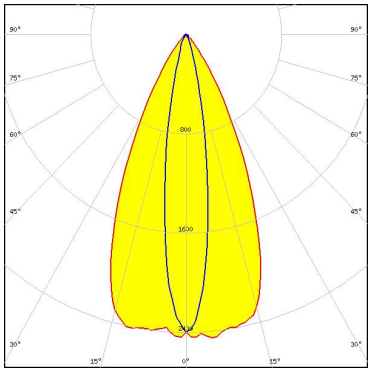
LED	Duris S5 (Single chip)
FWHM / FWTM	19.0 + 45.0° / 40.0 + 75.0°
Efficiency	79 %
Peak intensity	2.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

OSRAM
Opto Semiconductors

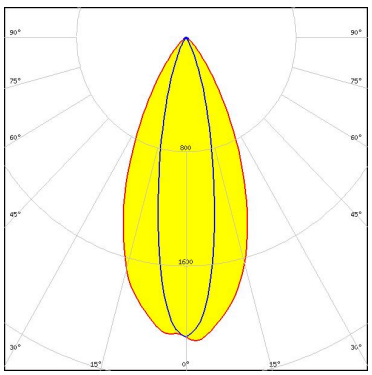
LED	OSCONIQ P 3030
FWHM / FWTM	50.0 + 17.0° / 75.0 + 34.0°
Efficiency	79 %
Peak intensity	2.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

OSRAM
Opto Semiconductors

LED	OSLON Square CSSRM2/CSSRM3
FWHM / FWTM	47.0 + 22.0° / 79.0 + 46.0°
Efficiency	81 %
Peak intensity	2.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

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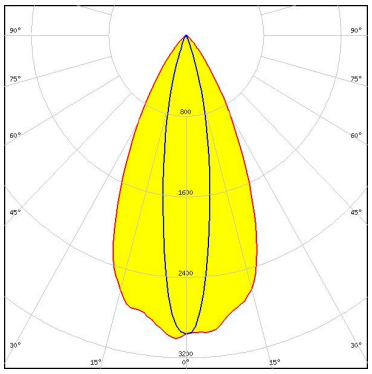
OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

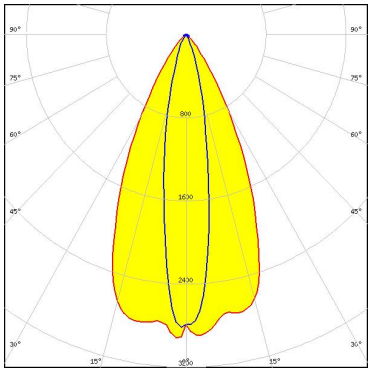
LED	OSLON SSL 150
FWHM / FWTM	16.5 + 48.0° / 36.0 + 76.0°
Efficiency	83 %
Peak intensity	2.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

OSRAM
Opto Semiconductors

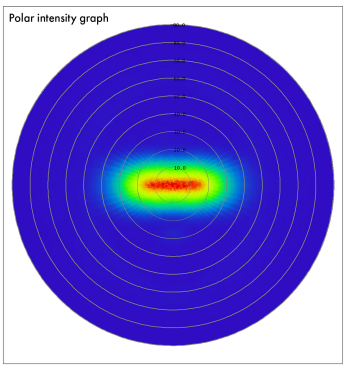
LED	OSLON SSL 80
FWHM / FWTM	16.0 + 45.0° / 38.0 + 72.0°
Efficiency	81 %
Peak intensity	2.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

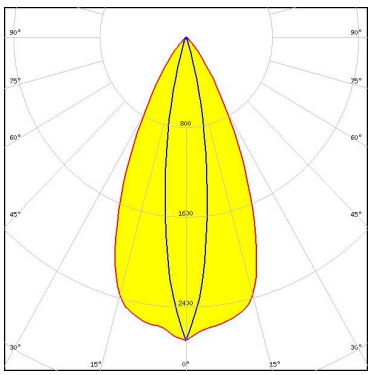


Light distribution files

OSRAM
Opto Semiconductors

LED	SFH 4716S
FWHM / FWTM	48.0 + 17.0° / 75.0 + 32.0°
Efficiency	82 %
LEDs/each optic	1
Light colour/type	IR
Required components:	





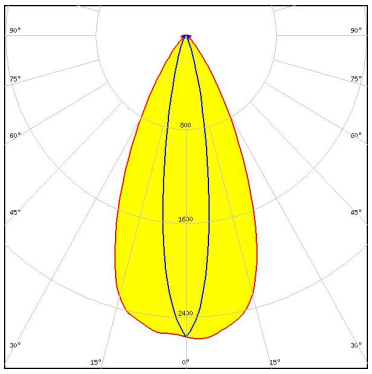
Light distribution files

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

OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

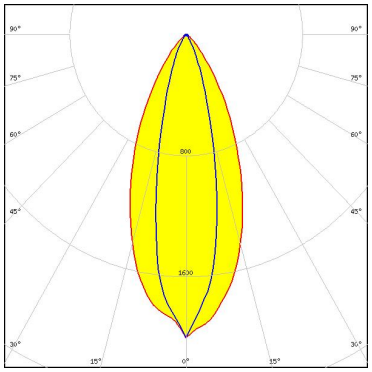
LED	SYNIOS S2222
FWHM / FWTM	50.0 + 18.0° / 77.0 + 36.0°
Efficiency	95 %
Peak intensity	2.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

SAMSUNG

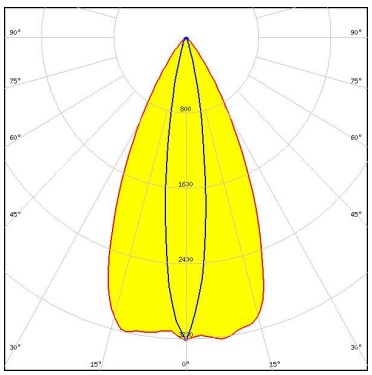
LED	LH351B
FWHM / FWTM	44.0 + 24.0° / 80.0 + 48.0°
Efficiency	81 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

SAMSUNG

LED	LM101B
FWHM / FWTM	14.5 + 50.0° / 29.0 + 72.0°
Efficiency	81 %
Peak intensity	2.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



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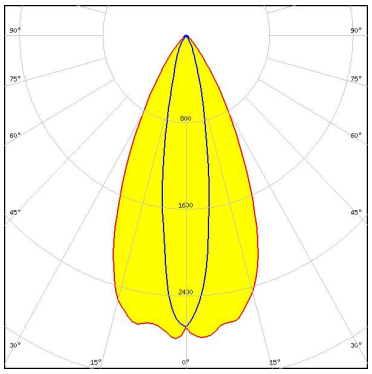
OPTICAL RESULTS (SIMULATED):

SAMSUNG

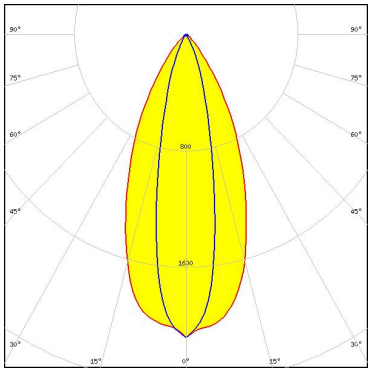
LED	LM301A
FWHM / FWTM	16.0 + 50.0° / 40.0 + 75.0°
Efficiency	81 %
Peak intensity	2.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

SEOUL SEMICONDUCTOR

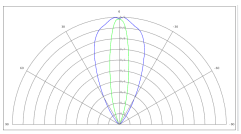
LED	Z5M1/Z5M2
FWHM / FWTM	46.0 + 22.0° / 80.0 + 47.0°
Efficiency	83 %
Peak intensity	2.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

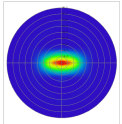


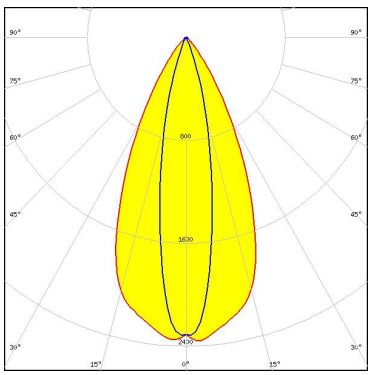
Light distribution files

STANLEY

LED	FWR1108MS
FWHM / FWTM	48.0 + 20.0° / 76.0 + 40.0°
Efficiency	84 %
LEDs/each optic	1
Light colour/type	IR
Required components:	







Light distribution files

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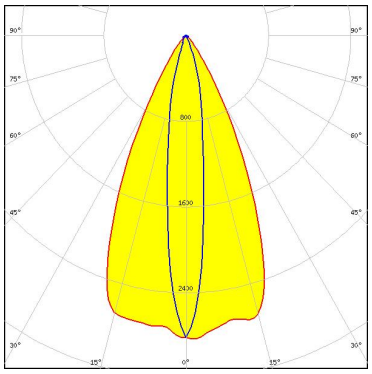
OPTICAL RESULTS (SIMULATED):

STANLEY

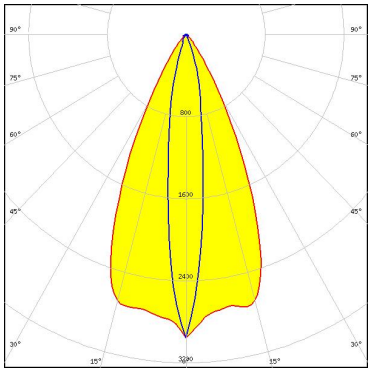
LED	MFN1108MS
FWHM / FWTM	50.0 + 14.0° / 72.0 + 37.0°
Efficiency	84 %
Peak intensity	2.9 cd/lm
LEDs/each optic	1
Light colour/type	IR
Required components:	



Light distribution files

STANLEY

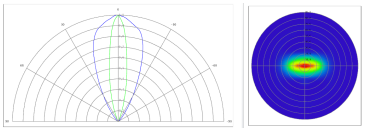
LED	MGN1108MS
FWHM / FWTM	50.0 + 14.0° / 72.0 + 36.0°
Efficiency	84 %
Peak intensity	3 cd/lm
LEDs/each optic	1
Light colour/type	IR
Required components:	

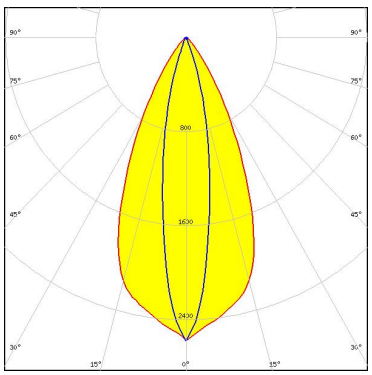


Light distribution files

STANLEY

LED	MJN1108MS
FWHM / FWTM	48.0 + 19.0° / 76.0 + 39.0°
Efficiency	85 %
LEDs/each optic	1
Light colour/type	IR
Required components:	





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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.

PRODUCT DATA USER AGREEMENT AND DISCLAIMER:

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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