OLGA-S

~11° spot beam beam. Assembly with holder and installation tape.



SPECIFICATION:

Dimensions	Ø 32.0 mm
Height	19.1 mm
Fastening	tape, pin
ROHS compliant	yes

MATERIALS:

Component	Type	Material	Colour	Finish	Length
OLGA-S	Single lens	PMMA	clear		30.0
OLGA-HLD	Holder	PC	black		32.0
SPUTNIK-TAPE3	Tape	Acrylic foam	black		25.0

ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
CA16127_OLGA-S » Box size: 476 x 273 x 292 mm	792	132	66	9.8

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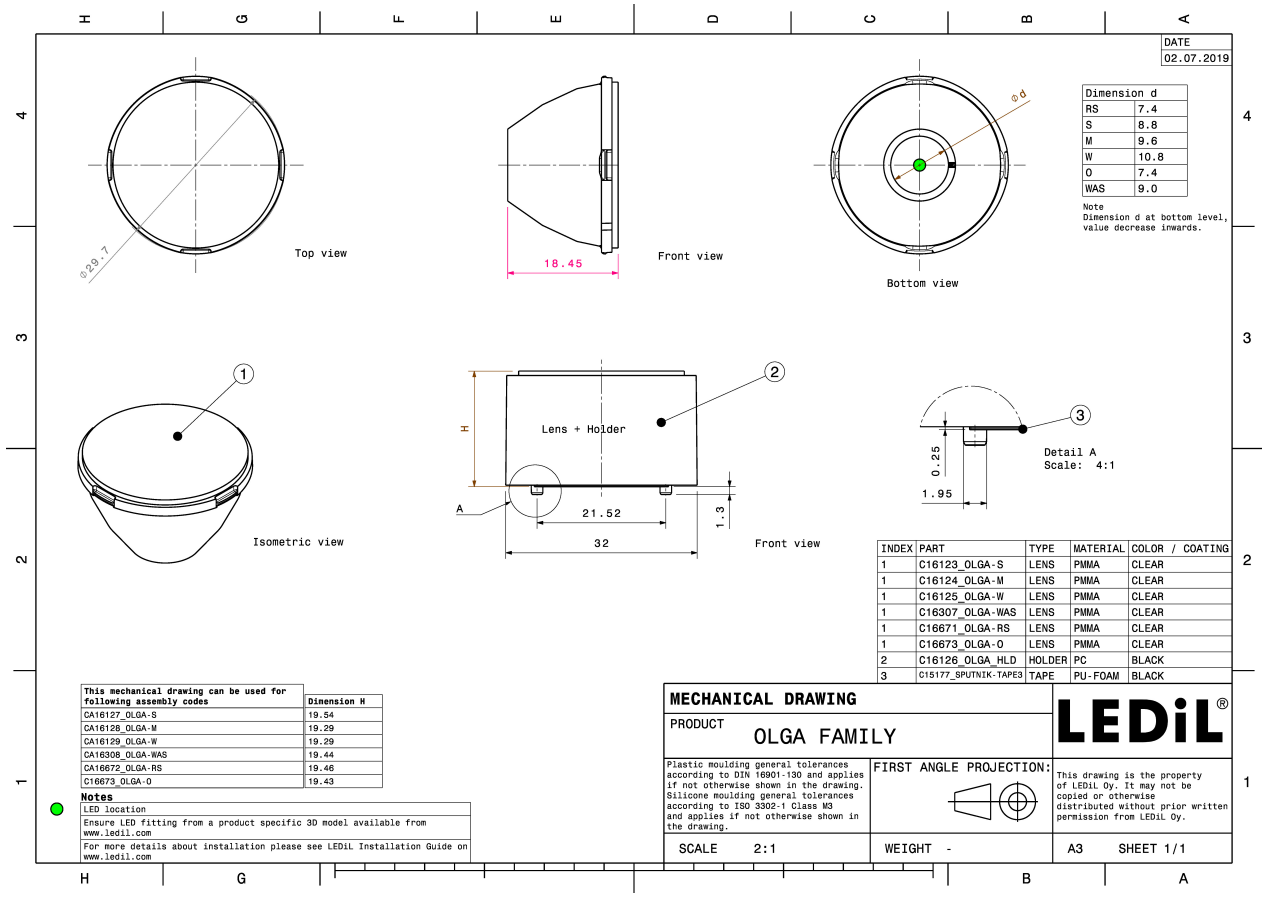

See also our general installation guide: www.ledil.com/installation_guide

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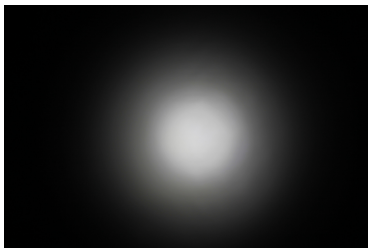
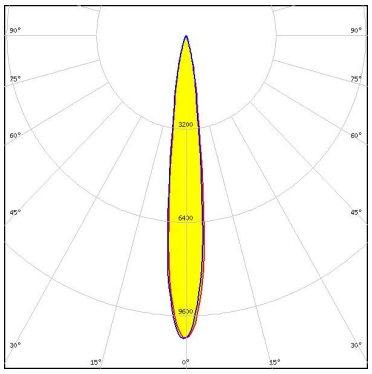
OPTICAL RESULTS (MEASURED):

CREE LEDs

LED	XD16
FWHM / FWTM	13.0° / 28.0°
Efficiency	82 %
Peak intensity	10.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



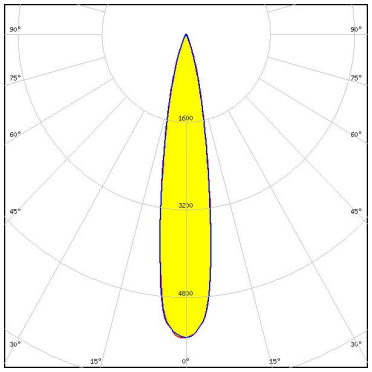


Light distribution files

CREE LEDs

LED	XHP35 HD
FWHM / FWTM	19.0° / 37.0°
Efficiency	83 %
Peak intensity	5.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



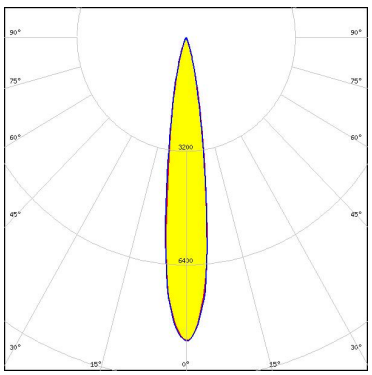


Light distribution files

CREE LEDs

LED	XHP35 HI
FWHM / FWTM	15.0° / 31.0°
Efficiency	87 %
Peak intensity	8.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	





Light distribution files

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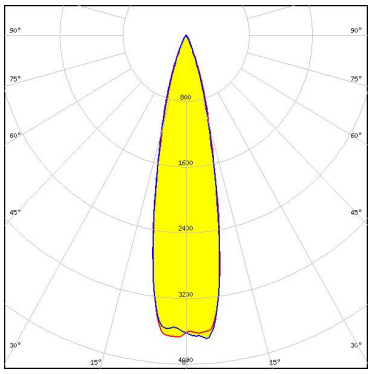
OPTICAL RESULTS (MEASURED):

CREE LEDs

LED	XHP50
FWHM / FWTM	24.0° / 44.0°
Efficiency	83 %
Peak intensity	3.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



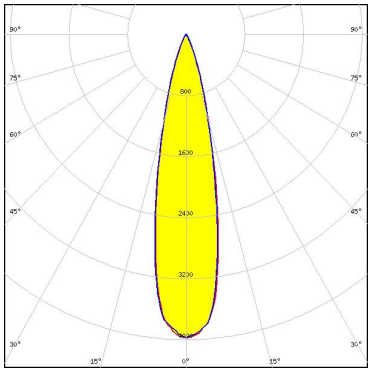


Light distribution files

CREE LEDs

LED	XHP50.2
FWHM / FWTM	23.0° / 43.0°
Efficiency	82 %
Peak intensity	4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

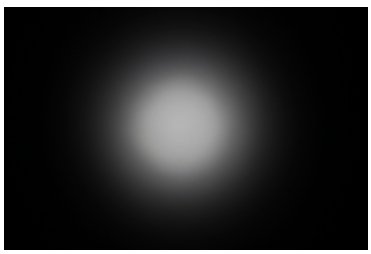


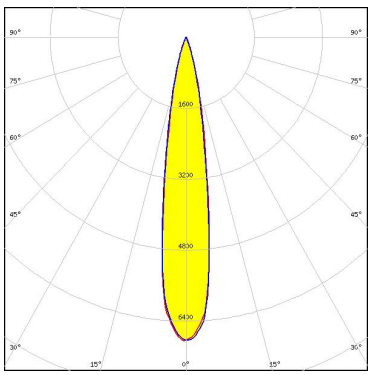


Light distribution files

CREE LEDs

LED	XM-L
FWHM / FWTM	17.0° / 34.0°
Efficiency	86 %
Peak intensity	6.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	





Light distribution files

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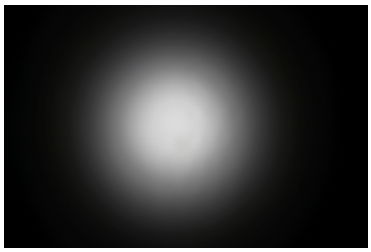
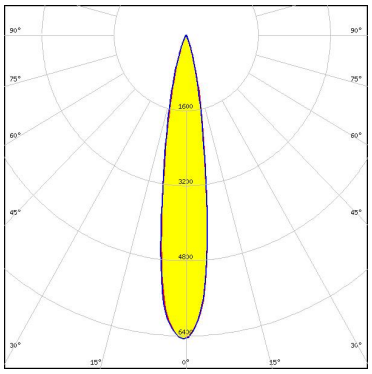
OPTICAL RESULTS (MEASURED):

CREE LEDs

LED	XM-L3
FWHM / FWTM	17.0° / 35.0°
Efficiency	85 %
Peak intensity	6.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

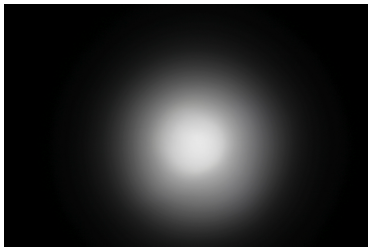


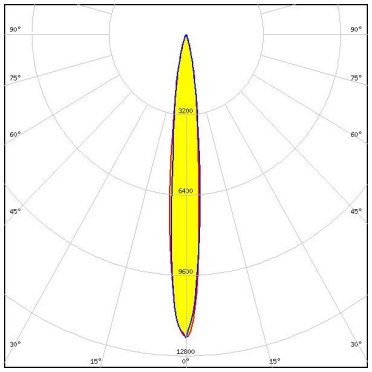


Light distribution files

CREE LEDs

LED	XP-E
FWHM / FWTM	11.0° / 27.0°
Efficiency	87 %
Peak intensity	12.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



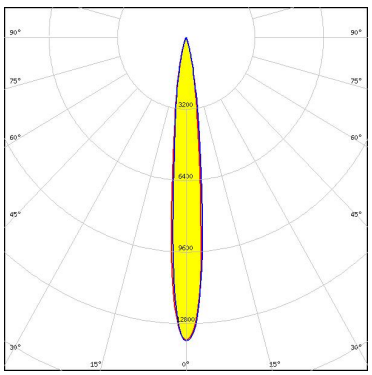


Light distribution files

CREE LEDs

LED	XP-E2
FWHM / FWTM	11.0° / 26.0°
Efficiency	89 %
Peak intensity	13.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	





Light distribution files

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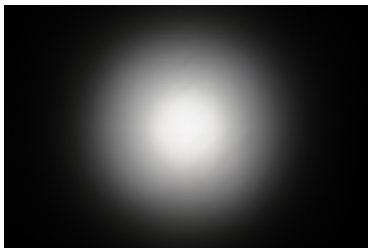
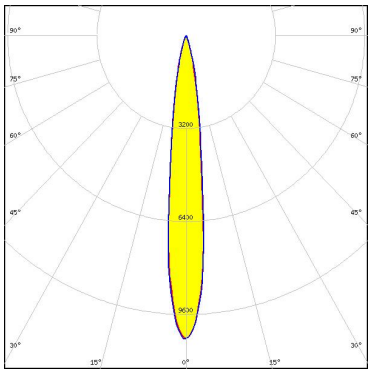
OPTICAL RESULTS (MEASURED):

CREE LEDs

LED	XP-G2
FWHM / FWTM	13.0° / 29.0°
Efficiency	87 %
Peak intensity	10 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



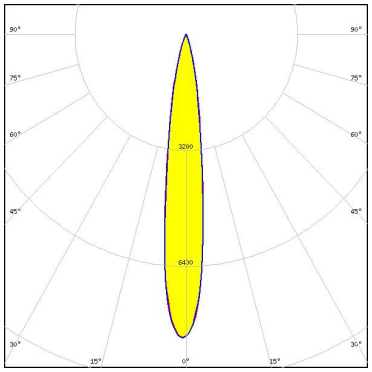


Light distribution files

CREE LEDs

LED	XP-G3
FWHM / FWTM	14.0° / 31.0°
Efficiency	86 %
Peak intensity	8.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

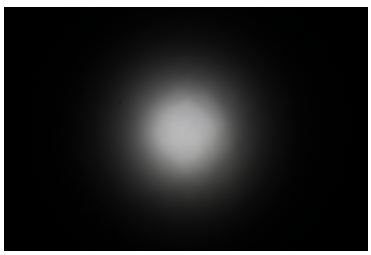


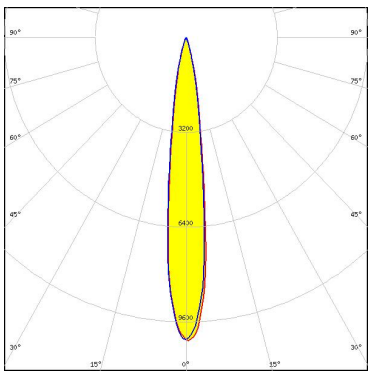


Light distribution files

CREE LEDs

LED	XP-L HI
FWHM / FWTM	14.0° / 29.0°
Efficiency	88 %
Peak intensity	10.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	





Light distribution files

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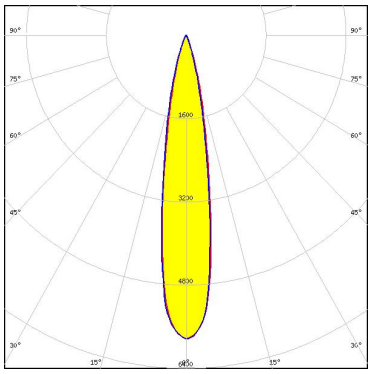
OPTICAL RESULTS (MEASURED):

CREE LEDs

LED	XP-L2
FWHM / FWTM	18.0° / 36.0°
Efficiency	82 %
Peak intensity	5.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



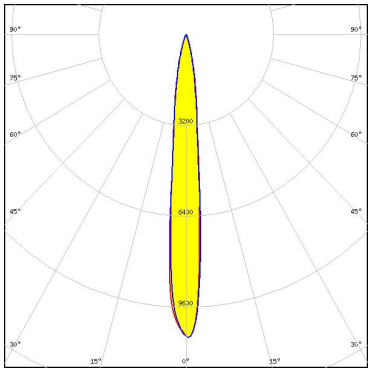


Light distribution files

CREE LEDs

LED	XQ-E HD
FWHM / FWTM	11.0° / 28.0°
Efficiency	81 %
Peak intensity	11 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

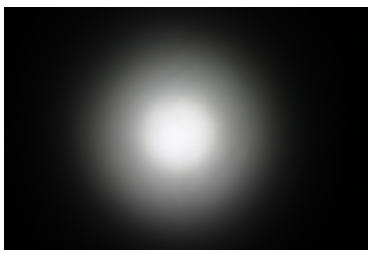


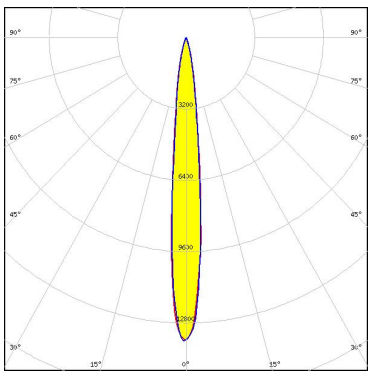


Light distribution files

CREE LEDs

LED	XQ-E HI
FWHM / FWTM	11.0° / 26.0°
Efficiency	86 %
Peak intensity	13.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	





Light distribution files

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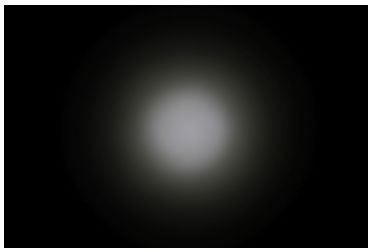
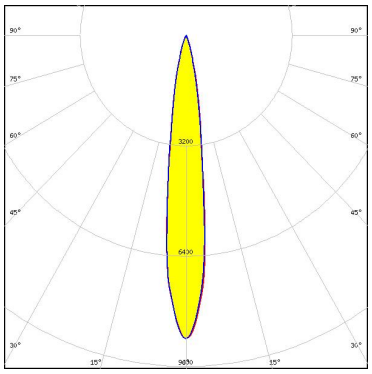
OPTICAL RESULTS (MEASURED):

CREE LEDs

LED	XT-E
FWHM / FWTM	14.0° / 30.0°
Efficiency	84 %
Peak intensity	8.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

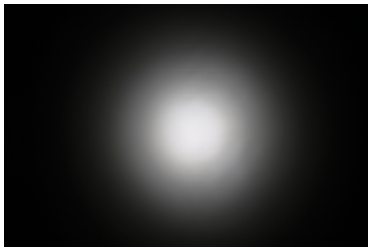


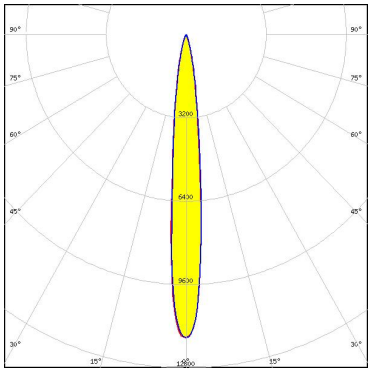


Light distribution files

LUMILEDS

LED	LUXEON C
FWHM / FWTM	11.0° / 27.0°
Efficiency	84 %
Peak intensity	11.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

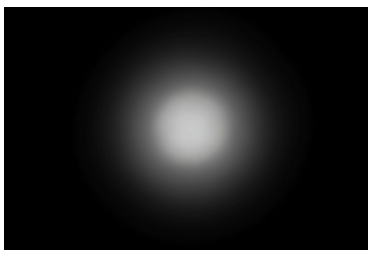


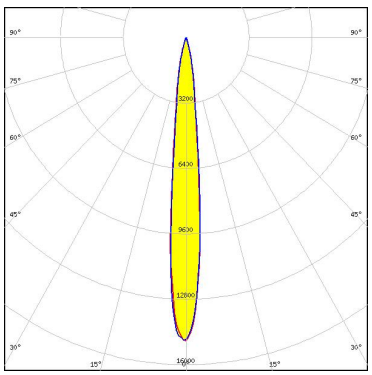


Light distribution files

LUMILEDS

LED	LUXEON CZ
FWHM / FWTM	11.0° / 25.0°
Efficiency	89 %
Peak intensity	14.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	





Light distribution files

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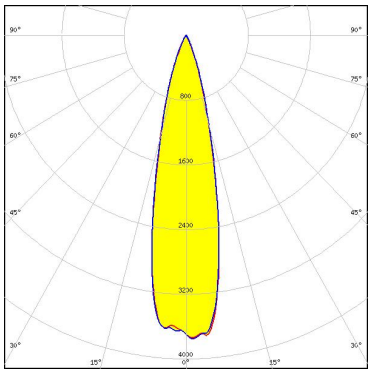
OPTICAL RESULTS (MEASURED):

LUMILEDS

LED	LUXEON M/MX
FWHM / FWTM	24.0° / 44.0°
Efficiency	84 %
Peak intensity	3.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

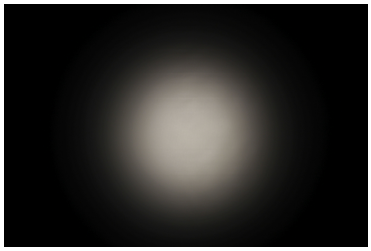


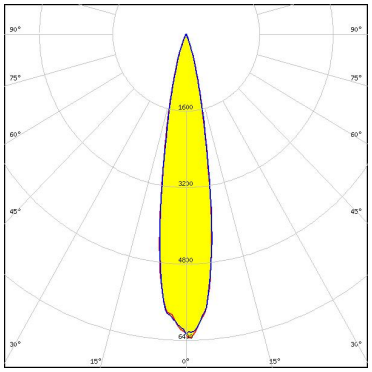


Light distribution files

LUMILEDS

LED	LUXEON MZ
FWHM / FWTM	19.0° / 35.0°
Efficiency	86 %
Peak intensity	6.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

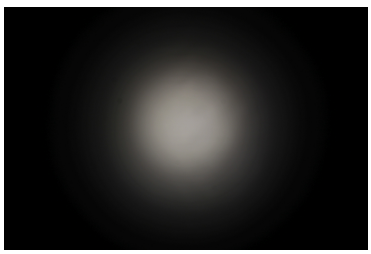


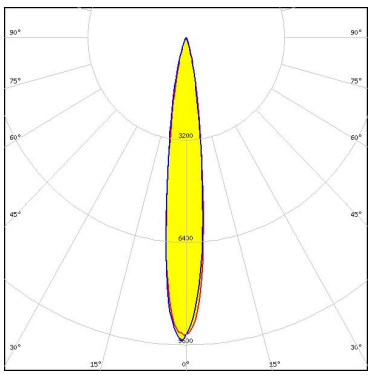


Light distribution files

LUMILEDS

LED	LUXEON Rebel ES
FWHM / FWTM	14.0° / 30.0°
Efficiency	86 %
Peak intensity	9.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	





Light distribution files

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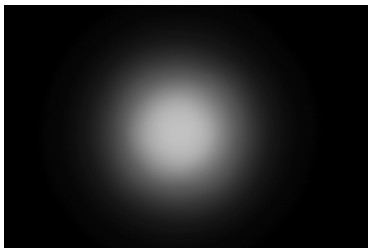
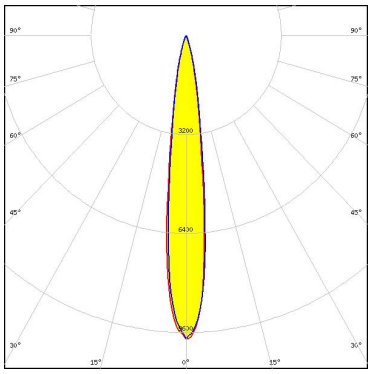
OPTICAL RESULTS (MEASURED):

LUMILEDS

LED	LUXEON TX
FWHM / FWTM	14.0° / 29.0°
Efficiency	86 %
Peak intensity	9.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



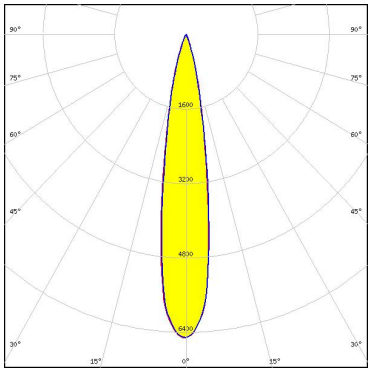


Light distribution files

LUMILEDS

LED	LUXEON V
FWHM / FWTM	18.0° / 35.0°
Efficiency	84 %
Peak intensity	6.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

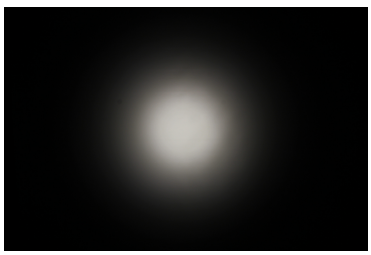


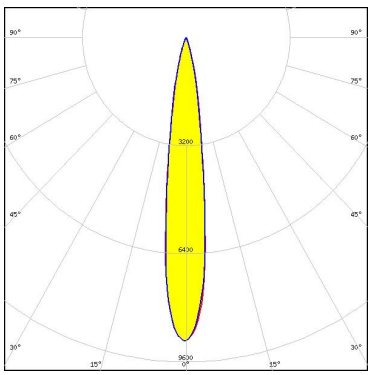


Light distribution files

LUMILEDS

LED	LUXEON V2
FWHM / FWTM	15.0° / 31.0°
Efficiency	86 %
Peak intensity	9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	





Light distribution files

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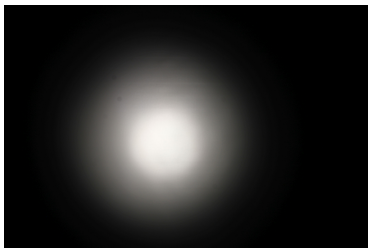
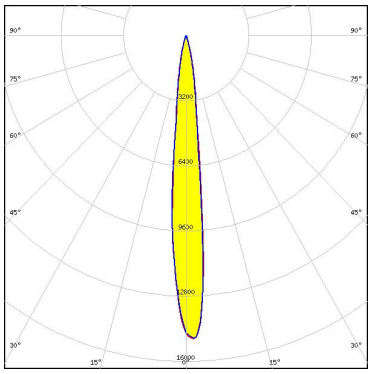
OPTICAL RESULTS (MEASURED):

LUMILEDS

LED	LUXEON Z
FWHM / FWTM	11.0° / 25.0°
Efficiency	88 %
Peak intensity	15.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

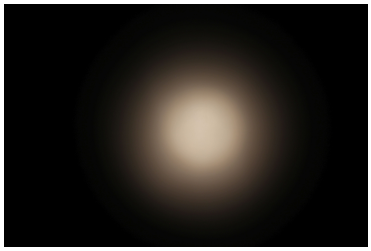


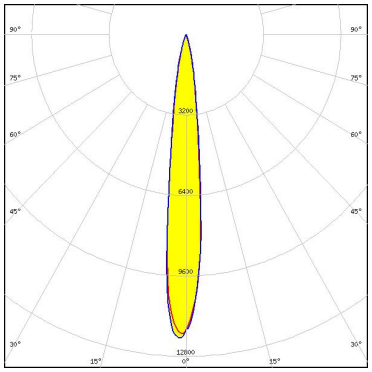


Light distribution files

LUMILEDS

LED	LUXEON Z ES
FWHM / FWTM	12.0° / 27.0°
Efficiency	89 %
Peak intensity	12.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

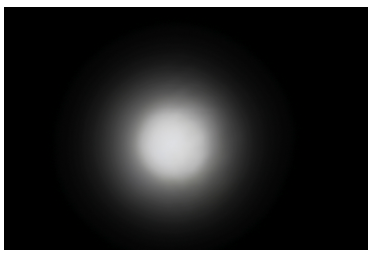


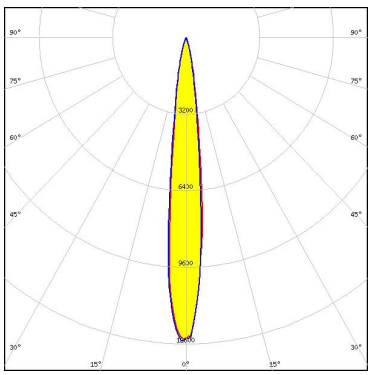


Light distribution files

NICHIA

LED	NCSxE17A
FWHM / FWTM	12.0° / 26.0°
Efficiency	87 %
Peak intensity	12.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	





Light distribution files

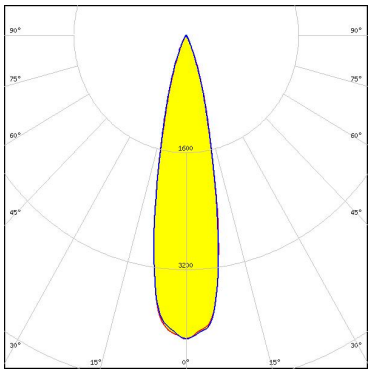
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (MEASURED):

NICHIA

LED	NV4x144A
FWHM / FWTM	23.0° / 43.0°
Efficiency	84 %
Peak intensity	4.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



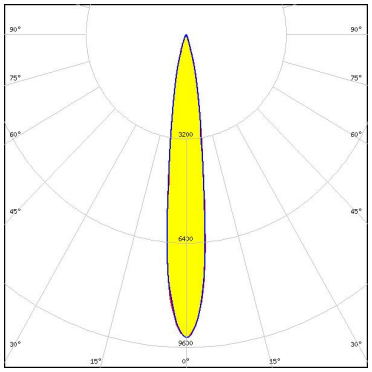


Light distribution files

NICHIA

LED	NVSW219D
FWHM / FWTM	14.0° / 30.0°
Efficiency	85 %
Peak intensity	9.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

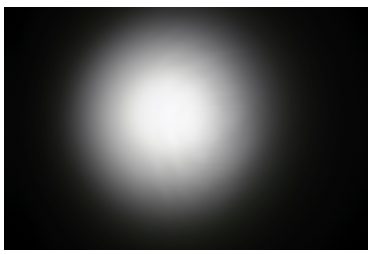


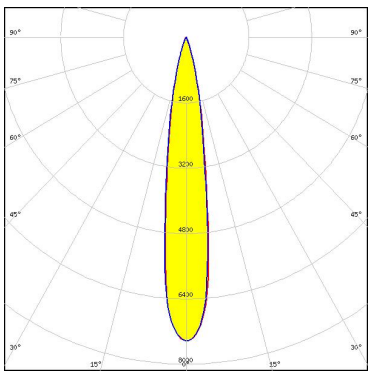


Light distribution files

NICHIA

LED	NVSW319B
FWHM / FWTM	16.0° / 33.0°
Efficiency	86 %
Peak intensity	7.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	





Light distribution files

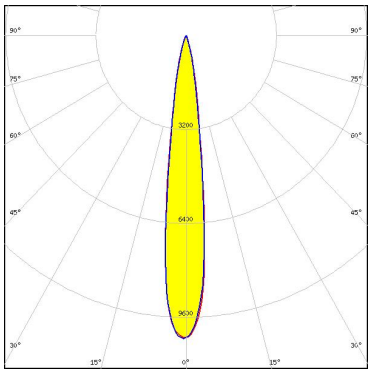
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (MEASURED):

NICHIA

LED	NVSxE21A
FWHM / FWTM	14.0° / 28.0°
Efficiency	87 %
Peak intensity	10.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



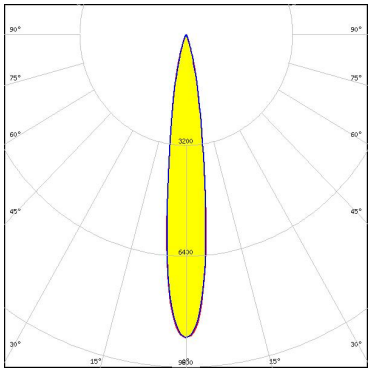


Light distribution files

NICHIA

LED	NVSxx19B/NVSxx19C
FWHM / FWTM	15.0° / 31.0°
Efficiency	85 %
Peak intensity	8.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



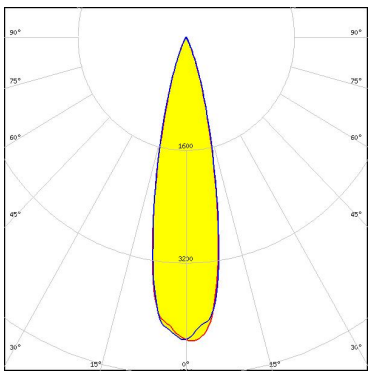


Light distribution files

OSRAM
Opto Semiconductors

LED	Duris S8
FWHM / FWTM	24.0° / 43.0°
Efficiency	86 %
Peak intensity	4.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	





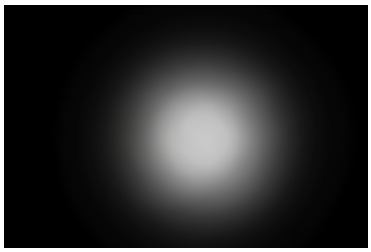
Light distribution files

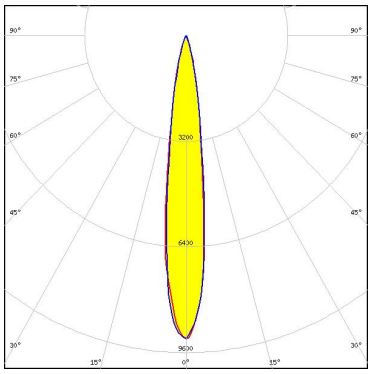
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (MEASURED):

OSRAM
Opto Semiconductors

LED	OSCONIQ P 3737 (2W version)
FWHM / FWTM	14.0° / 30.0°
Efficiency	87 %
Peak intensity	9.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



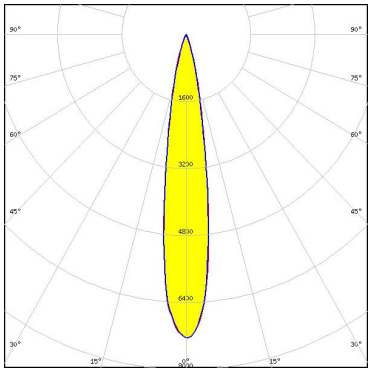


Light distribution files

OSRAM
Opto Semiconductors

LED	OSCONIQ P 3737 (3W version)
FWHM / FWTM	17.0° / 33.0°
Efficiency	86 %
Peak intensity	7.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



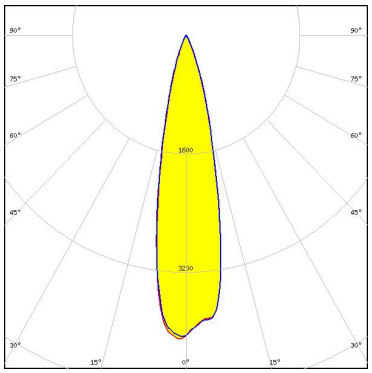


Light distribution files

OSRAM
Opto Semiconductors

LED	OSCONIQ P 7070
FWHM / FWTM	23.0° / 42.0°
Efficiency	84 %
Peak intensity	4.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	





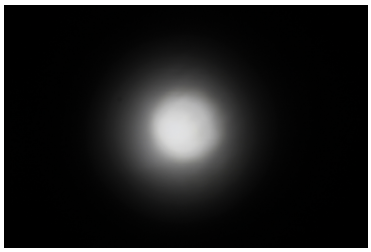
Light distribution files

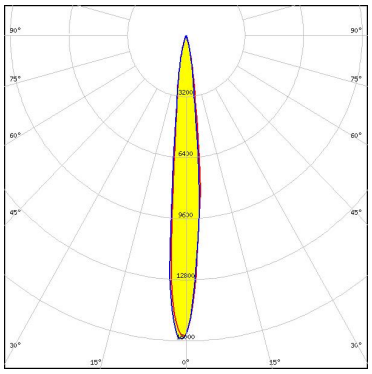
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (MEASURED):

OSRAM
Opto Semiconductors

LED	OSLON Black Flat (LUW HWQP)
FWHM / FWTM	11.0° / 24.0°
Efficiency	88 %
Peak intensity	16 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

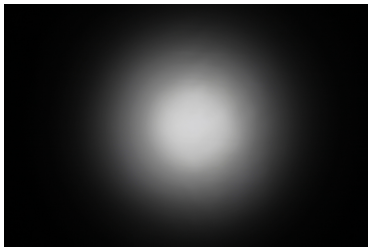


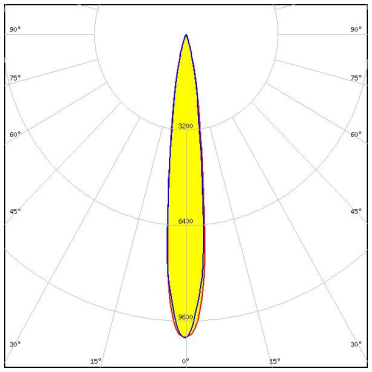


Light distribution files

OSRAM
Opto Semiconductors

LED	OSLON Square CSSRM2/CSSRM3
FWHM / FWTM	14.0° / 30.0°
Efficiency	87 %
Peak intensity	10.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



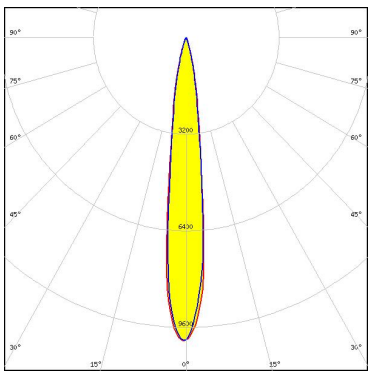


Light distribution files

OSRAM
Opto Semiconductors

LED	OSLON Square EC
FWHM / FWTM	13.0° / 29.0°
Efficiency	85 %
Peak intensity	10 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	





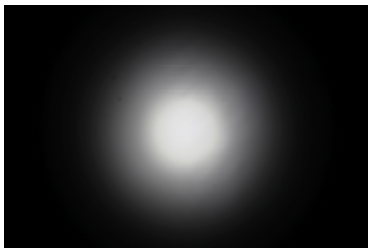
Light distribution files

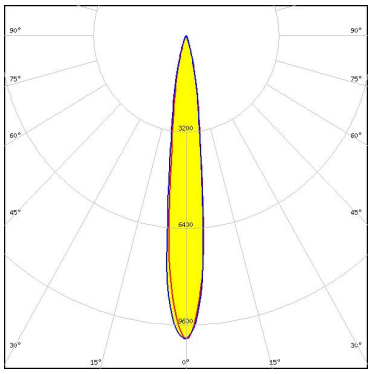
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (MEASURED):

OSRAM
Opto Semiconductors

LED	OSLON Square PC
FWHM / FWTM	13.0° / 30.0°
Efficiency	85 %
Peak intensity	10.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

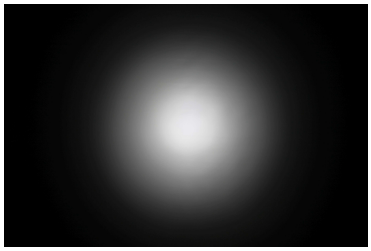


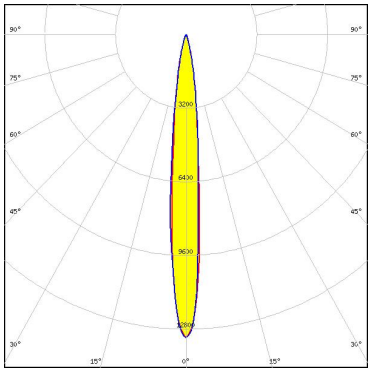


Light distribution files

OSRAM
Opto Semiconductors

LED	OSLON SSL 150
FWHM / FWTM	11.0° / 26.0°
Efficiency	87 %
Peak intensity	13 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

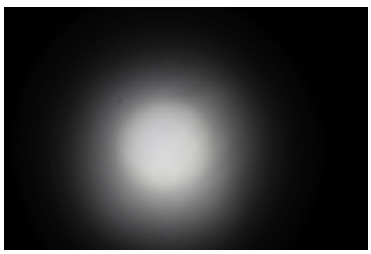


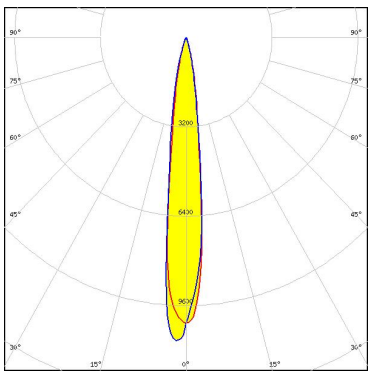


Light distribution files

OSRAM
Opto Semiconductors

LED	OSLON SSL 80
FWHM / FWTM	13.0° / 28.0°
Efficiency	86 %
Peak intensity	11.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	





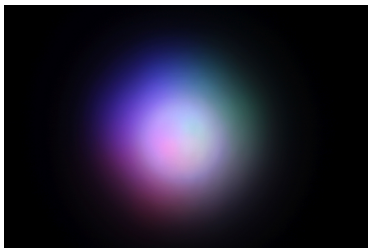
Light distribution files

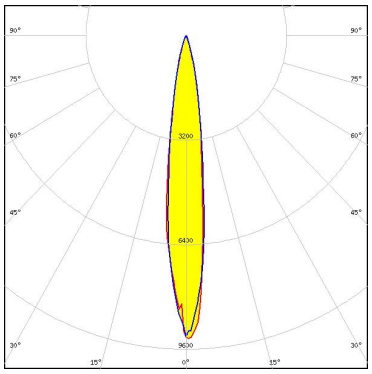
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (MEASURED):

OSRAM
Opto Semiconductors

LED	OSTAR Stage (S2WN)
FWHM / FWTM	14.0° / 30.0°
Efficiency	86 %
Peak intensity	9.3 cd/lm
LEDs/each optic	1
Light colour/type	RGBW
Required components:	



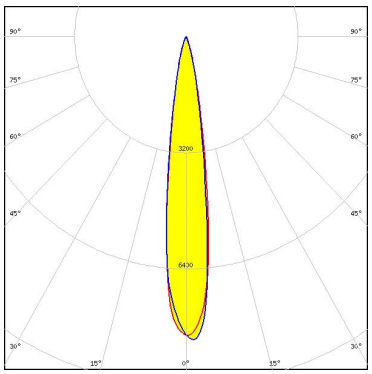


Light distribution files

SAMSUNG

LED	LH181A
FWHM / FWTM	15.0° / 30.0°
Efficiency	81 %
Peak intensity	8.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

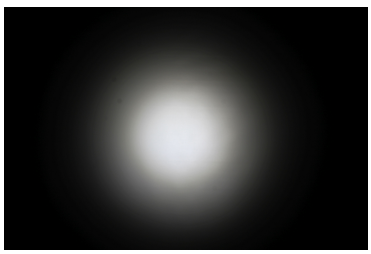


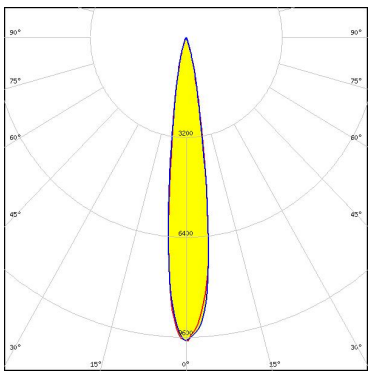


Light distribution files

SAMSUNG

LED	LH181B
FWHM / FWTM	15.0° / 29.0°
Efficiency	87 %
Peak intensity	9.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	





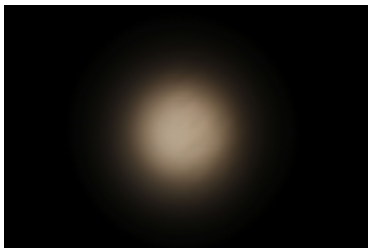
Light distribution files

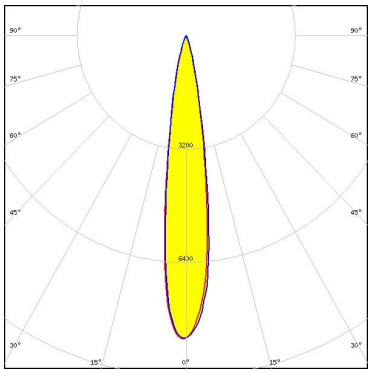
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (MEASURED):

SAMSUNG

LED	LH231B
FWHM / FWTM	16.0° / 31.0°
Efficiency	88 %
Peak intensity	8.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

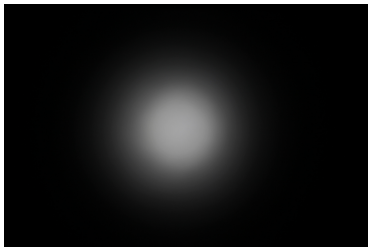


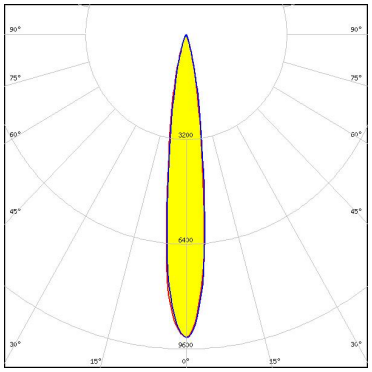


Light distribution files

SAMSUNG

LED	LH351B
FWHM / FWTM	14.0° / 30.0°
Efficiency	87 %
Peak intensity	9.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



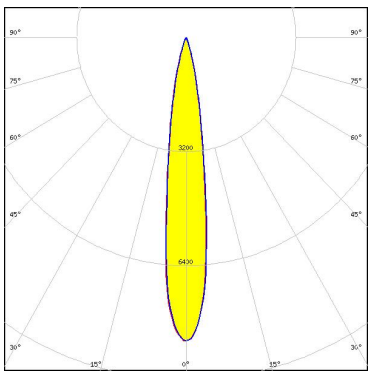


Light distribution files

SAMSUNG

LED	LH351C
FWHM / FWTM	15.0° / 31.0°
Efficiency	86 %
Peak intensity	8.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	





Light distribution files

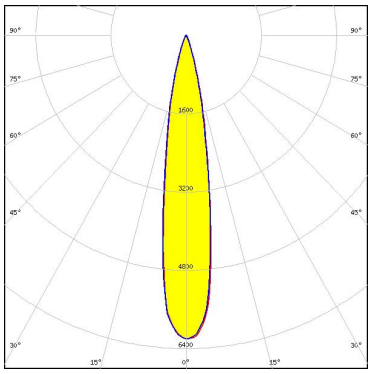
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (MEASURED):

SAMSUNG

LED	LH351D
FWHM / FWTM	18.0° / 36.0°
Efficiency	85 %
Peak intensity	6.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

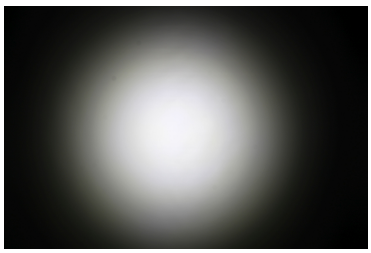


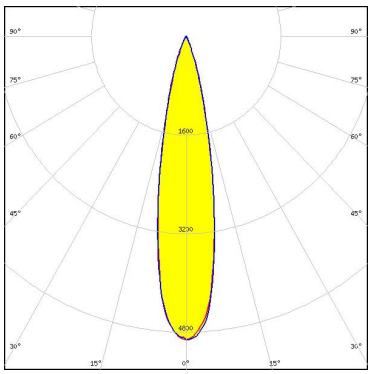


Light distribution files

SAMSUNG

LED	LH508A
FWHM / FWTM	21.0° / 40.0°
Efficiency	86 %
Peak intensity	4.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



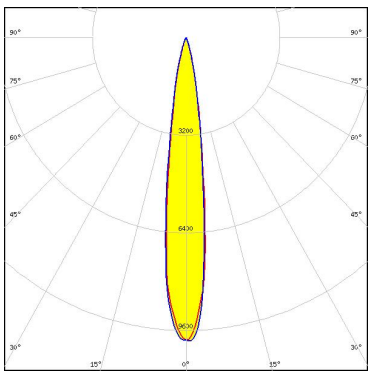


Light distribution files

SAMSUNG

LED	LM302A
FWHM / FWTM	14.0° / 30.0°
Efficiency	89 %
Peak intensity	9.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	





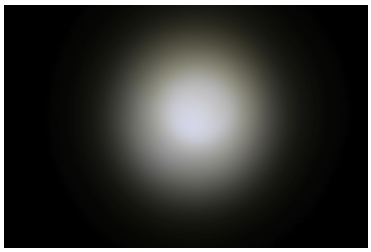
Light distribution files

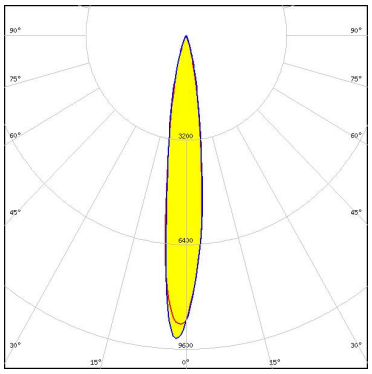
LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (MEASURED):

SAMSUNG

LED	LM561B
FWHM / FWTM	14.0° / 31.0°
Efficiency	88 %
Peak intensity	9.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



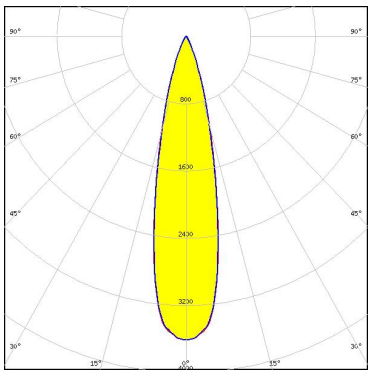


Light distribution files

SEOUL SEMICONDUCTOR

LED	WICOP 5050
FWHM / FWTM	24.0° / 45.0°
Efficiency	81 %
Peak intensity	3.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

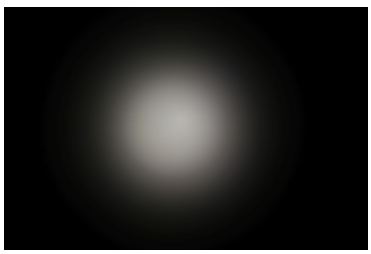


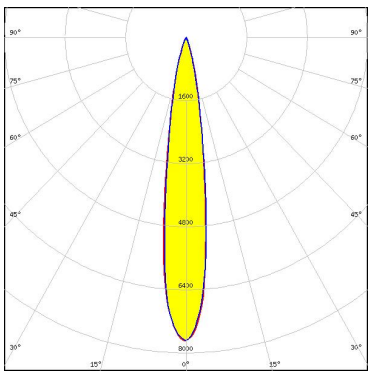


Light distribution files

SEOUL SEMICONDUCTOR

LED	Z5M3
FWHM / FWTM	16.0° / 32.0°
Efficiency	84 %
Peak intensity	7.7 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):

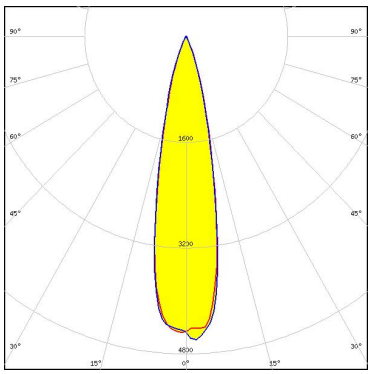
CREE LEDs

LED	XHP35.2 HI
FWHM / FWTM	18.0° / 36.0°
Efficiency	88 %
Peak intensity	6.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

Light distribution files

CREE LEDs

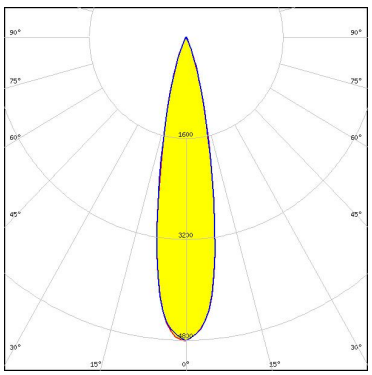
LED	XHP50
FWHM / FWTM	23.0° / 42.0°
Efficiency	86 %
Peak intensity	4.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

CREE LEDs

LED	XHP50.3 HD
FWHM / FWTM	22.0° / 40.0°
Efficiency	84 %
Peak intensity	4.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

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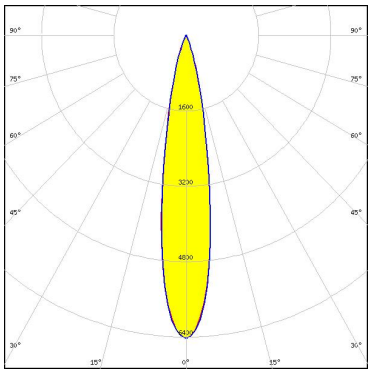
OPTICAL RESULTS (SIMULATED):

CREE LEDs

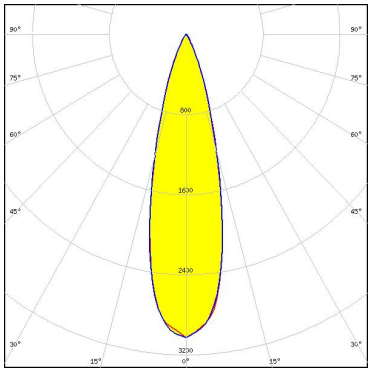
LED	XHP50.3 HI
FWHM / FWTM	18.0° / 36.0°
Efficiency	95 %
Peak intensity	6.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

CREE LEDs

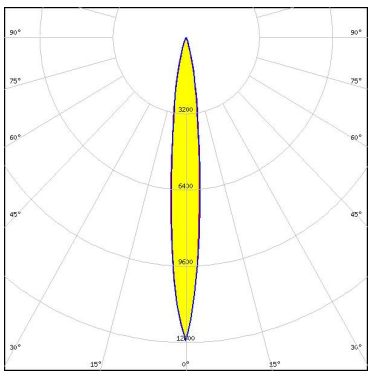
LED	XHP70.3 HD
FWHM / FWTM	26.0 + 28.0° / 50.0°
Efficiency	82 %
Peak intensity	3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

CREE LEDs

LED	XP-E2
FWHM / FWTM	11.0° / 28.0°
Efficiency	91 %
Peak intensity	12.7 cd/lm
LEDs/each optic	1
Light colour/type	Amber
Required components:	



Light distribution files

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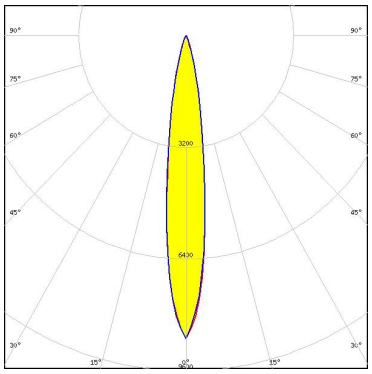
OPTICAL RESULTS (SIMULATED):

CREE LEDs

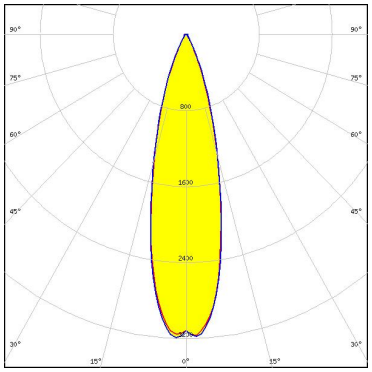
LED	XP-G2 HE
FWHM / FWTM	15.0° / 32.0°
Efficiency	88 %
Peak intensity	8.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

LUMILEDS

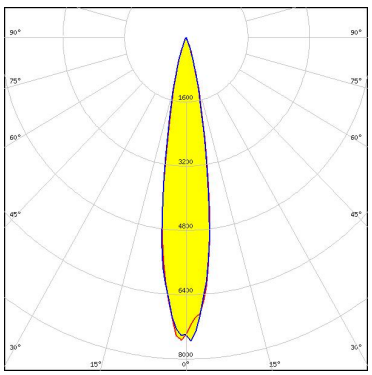
LED	LUXEON 7070
FWHM / FWTM	26.0° / 51.0°
Efficiency	94 %
Peak intensity	3.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

LUMILEDS

LED	LUXEON MZ
FWHM / FWTM	18.0° / 34.0°
Efficiency	90 %
Peak intensity	7.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

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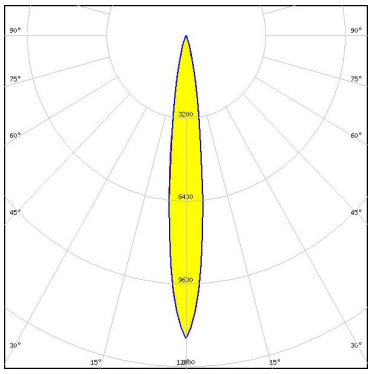
OPTICAL RESULTS (SIMULATED):

LUMINUS

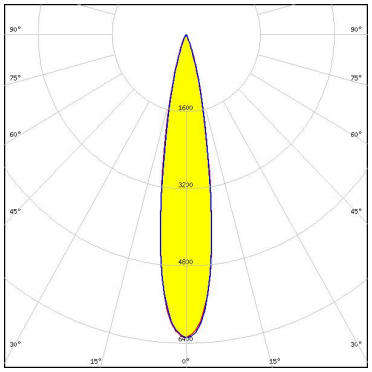
LED	SST-20
FWHM / FWTM	14.0° / 28.0°
Efficiency	91 %
Peak intensity	11.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

LUMINUS

LED	SST-70X-WCS
FWHM / FWTM	20.0° / 37.0 + 36.0°
Efficiency	89 %
Peak intensity	6.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

NICHIA

LED	NF2x757G
FWHM / FWTM	16.0° / 31.0°
Efficiency	91 %
Peak intensity	9.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

Light distribution files

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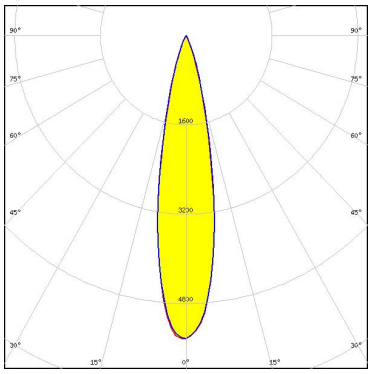
OPTICAL RESULTS (SIMULATED):

NICHIA

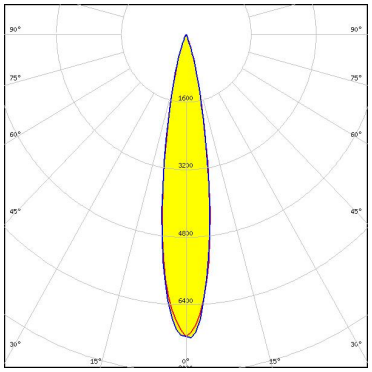
LED	NFMW48xA
FWHM / FWTM	21.0° / 40.0°
Efficiency	89 %
Peak intensity	5.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

NICHIA

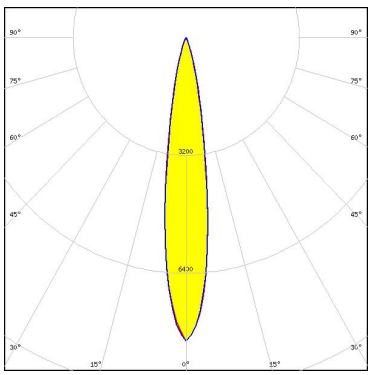
LED	NV4WB35AM
FWHM / FWTM	18.0° / 34.0°
Efficiency	89 %
Peak intensity	7.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

OSRAM
Opto Semiconductors

LED	OSCONIQ P 3737 (3W version)
FWHM / FWTM	16.0° / 33.0°
Efficiency	89 %
Peak intensity	8.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

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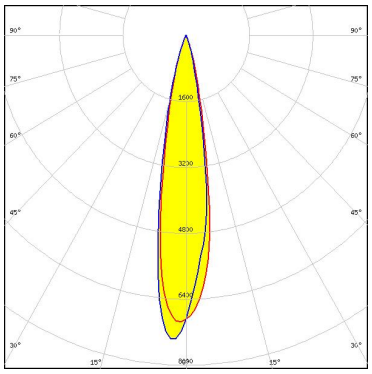
OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

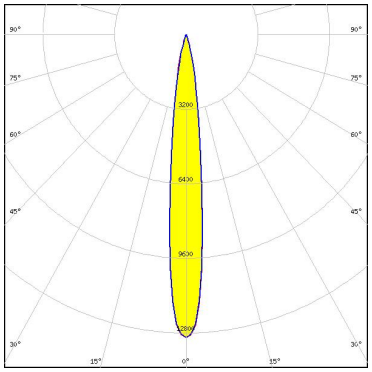
LED	OSLON Pure 1414
FWHM / FWTM	19.0 + 18.0° / 35.0 + 33.0°
Efficiency	89 %
Peak intensity	7.4 cd/lm
LEDs/each optic	4
Light colour/type	RGBW
Required components:	



Light distribution files

OSRAM
Opto Semiconductors

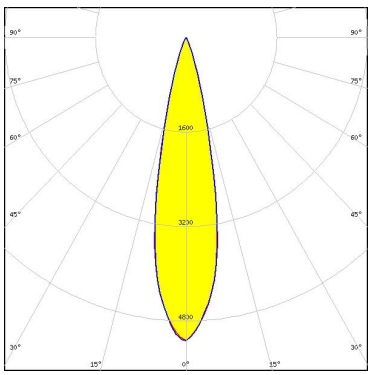
LED	OSLON Pure 1414
FWHM / FWTM	12.0° / 28.0°
Efficiency	92 %
Peak intensity	13 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

SAMSUNG

LED	LH151B
FWHM / FWTM	22.0° / 38.0°
Efficiency	88 %
Peak intensity	5.1 cd/lm
LEDs/each optic	4
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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