LEILA-Y-O

~45° + 15° oval beam. 14.8 mm high assembly with holder, installation tape and pins.



SPECIFICATION:

Dimensions	Ø 21.6 mm
Height	14.8 mm
Fastening	tape, pin
ROHS compliant	yes

MATERIALS:

Component	Type	Material	Colour	Finish	Length (mm)
LEILA-Y-O	Single lens	PMMA	clear	gloss	
LEILA-Y-HLD	Holder	PC	black	gloss	
LEILA-Y-TAPE	Tape	Acrylic foam			

ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
CA18094_LEILA-Y-O » Box size: 476 x 273 x 197 mm	1800	180	180	7.6

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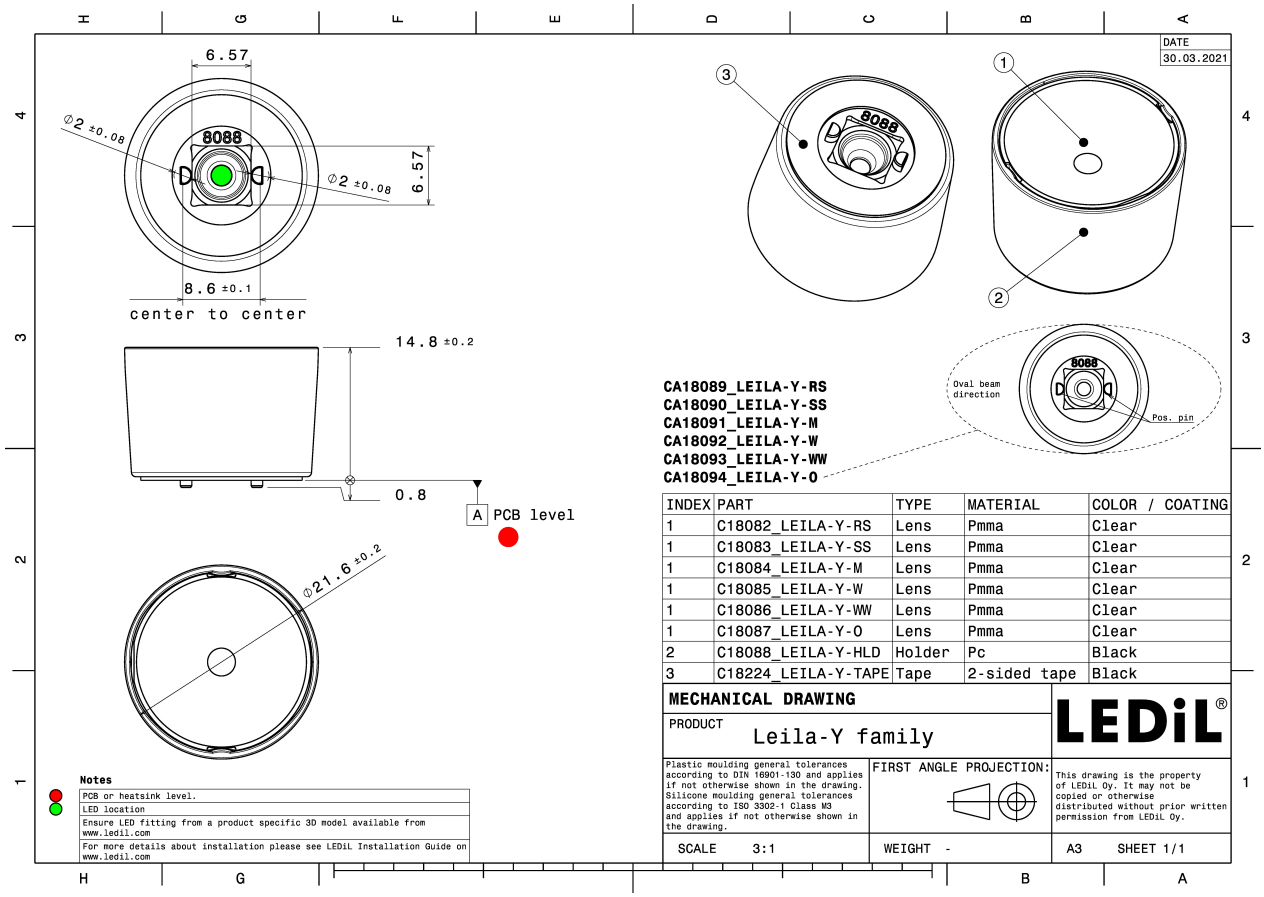

INDEX	PART	TYPE	MATERIAL	COLOR / COATING
1	C18082_LEILA-Y-RS	Lens	Pmma	Clear
1	C18083_LEILA-Y-SS	Lens	Pmma	Clear
1	C18084_LEILA-Y-M	Lens	Pmma	Clear
1	C18085_LEILA-Y-W	Lens	Pmma	Clear
1	C18086_LEILA-Y-WW	Lens	Pmma	Clear
1	C18087_LEILA-Y-O	Lens	Pmma	Clear
2	C18088_LEILA-Y-HLD	Holder	Pc	Black
3	C18224_LEILA-Y-TAPE	Tape	2-sided tape	Black

MECHANICAL DRAWING

PRODUCT: Leila-Y family

Plastic moulding general tolerances according to DIN 16901-130 and applies if not otherwise shown in the drawing. Silicone moulding general tolerances according to ISO 3302-1 Class M3 and applies if not otherwise shown in the drawing.

FIRST ANGLE PROJECTION:

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SCALE 3:1 | WEIGHT - | A3 | SHEET 1/1

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

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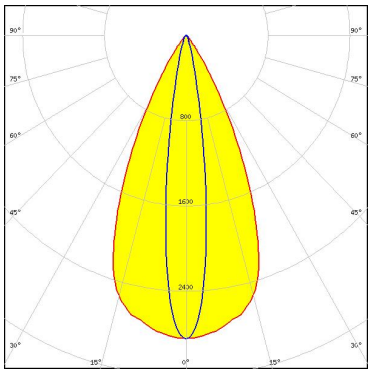
OPTICAL RESULTS (MEASURED):

CREE LEDs

LED	XHP35 HI
FWHM / FWTM	49.0 + 16.0° / 70.0 + 31.0°
Efficiency	80 %
Peak intensity	2.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



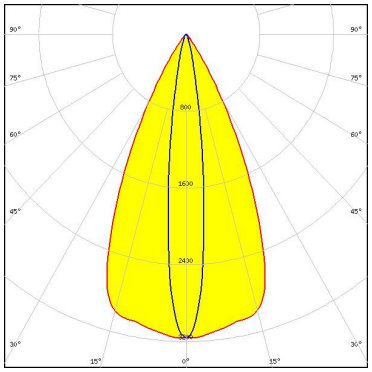


Light distribution files

CREE LEDs

LED	XP-G4
FWHM / FWTM	50.0 + 14.0° / 69.0 + 29.0°
Efficiency	81 %
Peak intensity	3.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



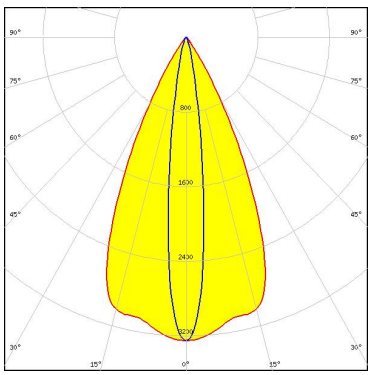


Light distribution files

NICHIA

LED	NVSW719AC
FWHM / FWTM	50.0 + 14.0° / 68.0 + 28.0°
Efficiency	81 %
Peak intensity	3.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	





Light distribution files

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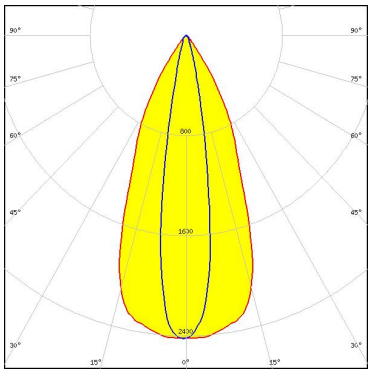
OPTICAL RESULTS (MEASURED):

OSRAM
Opto Semiconductors

LED	OSLON Pure 1414
FWHM / FWTM	44.0 + 18.0° / 72.0 + 34.0°
Efficiency	78 %
Peak intensity	2.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	





Light distribution files

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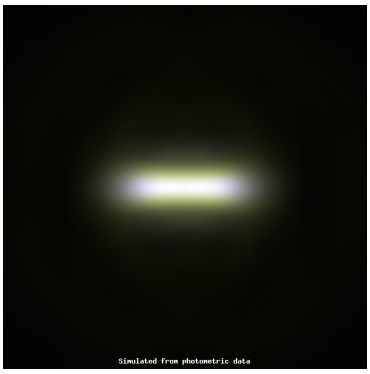
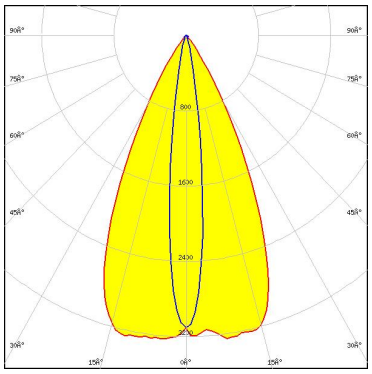
OPTICAL RESULTS (SIMULATED):

CREE LEDs

LED	J Series 3030C
FWHM / FWTM	50.0 + 14.0° / 70.0 + 26.0°
Efficiency	81 %
Peak intensity	3.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

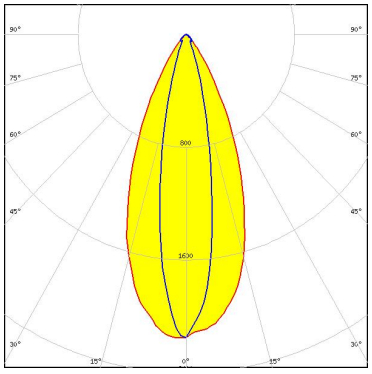




Light distribution files

CREE LEDs

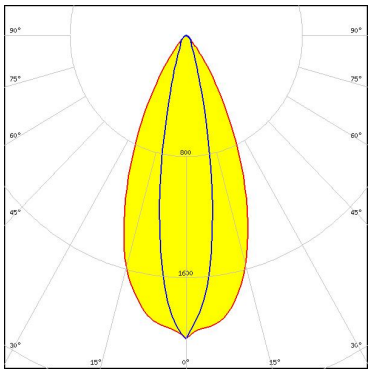
LED	J Series 5050 Round LES
FWHM / FWTM	20.0 + 44.0°
Efficiency	78 %
Peak intensity	2.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

CREE LEDs

LED	J Series 5050B 6V K Class
FWHM / FWTM	46.0 + 20.0° / 74.0 + 42.0°
Efficiency	77 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

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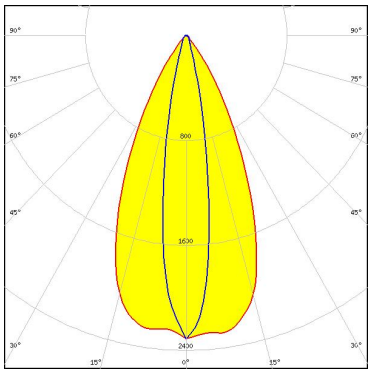
OPTICAL RESULTS (SIMULATED):

CREE LEDs

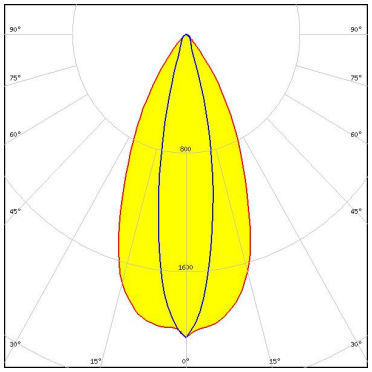
LED	XHP35.2 HI
FWHM / FWTM	49.0 + 18.0° / 74.0 + 34.0°
Efficiency	78 %
Peak intensity	2.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

CREE LEDs

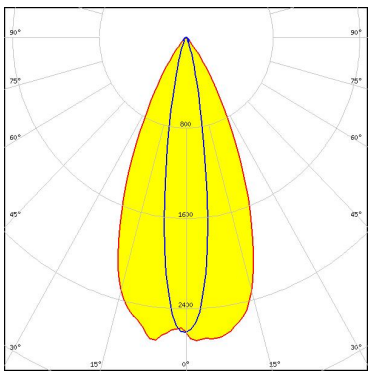
LED	XM-L RGBW (XMLDCL HD)
FWHM / FWTM	48.0 + 22.0° / 78.0 + 38.0°
Efficiency	79 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour/type	RGBW
Required components:	



Light distribution files

CREE LEDs

LED	XM-L2
FWHM / FWTM	17.0 + 47.0°
Efficiency	81 %
Peak intensity	2.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

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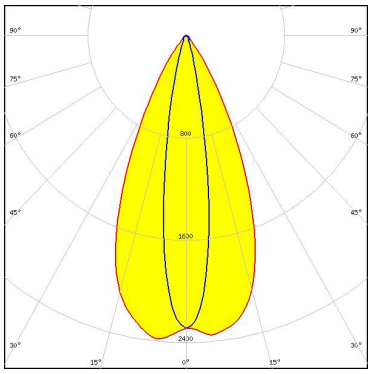
OPTICAL RESULTS (SIMULATED):

CREE LEDs

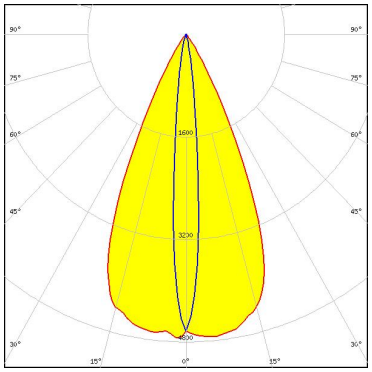
LED	XM-L3
FWHM / FWTM	17.0 + 48.0°
Efficiency	76 %
Peak intensity	2.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

CREE LEDs

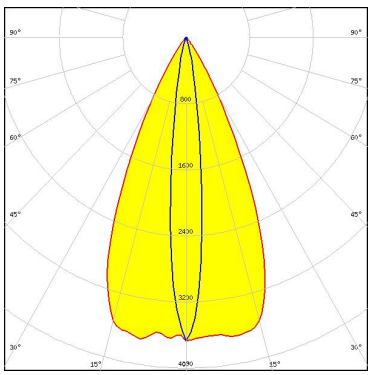
LED	XP-E2
FWHM / FWTM	10.0 + 49.0°
Efficiency	85 %
Peak intensity	4.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

CREE LEDs

LED	XP-G2
FWHM / FWTM	13.0 + 49.0°
Efficiency	84 %
Peak intensity	3.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

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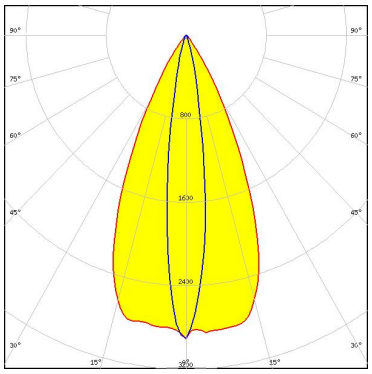
OPTICAL RESULTS (SIMULATED):

CREE LEDs

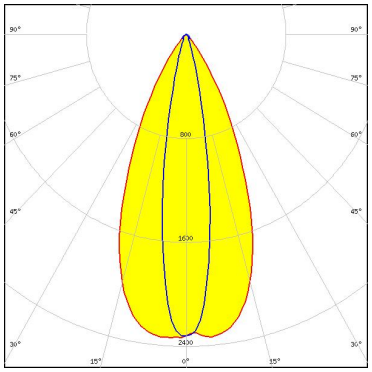
LED	XP-G3
FWHM / FWTM	15.0 + 48.0°
Efficiency	80 %
Peak intensity	2.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

CREE LEDs

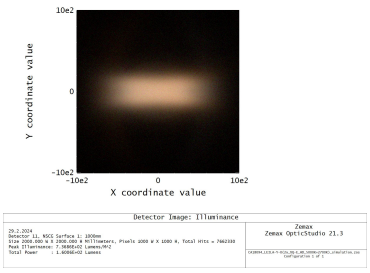
LED	XP-L2
FWHM / FWTM	18.0 + 47.0°
Efficiency	77 %
Peak intensity	2.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

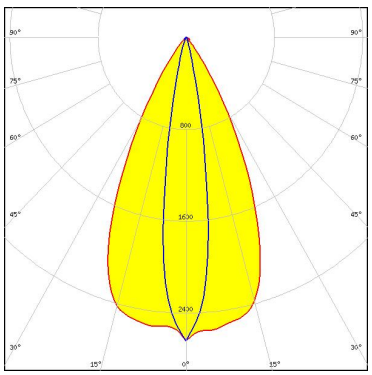


Light distribution files

CREE LEDs

LED	XQ-E HD
FWHM / FWTM	51.0 + 16.0° / 72.0 + 29.0°
Efficiency	82 %
Peak intensity	2.6 cd/lm
LEDs/each optic	2
Light colour/type	White
Required components:	





Light distribution files

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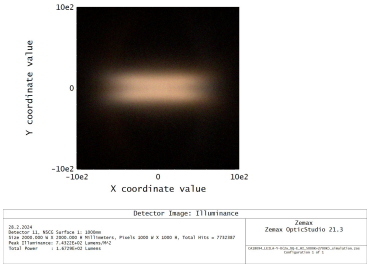
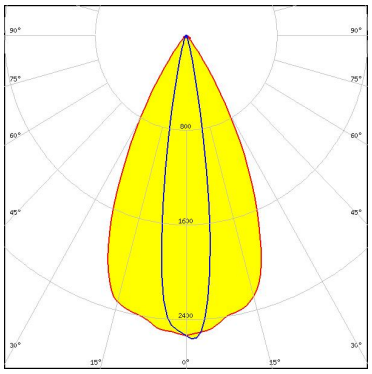
OPTICAL RESULTS (SIMULATED):

CREE LEDs

LED	XQ-E HI
FWHM / FWTM	52.0 + 18.0° / 72.0 + 28.0°
Efficiency	82 %
Peak intensity	2.6 cd/lm
LEDs/each optic	2
Light colour/type	White
Required components:	

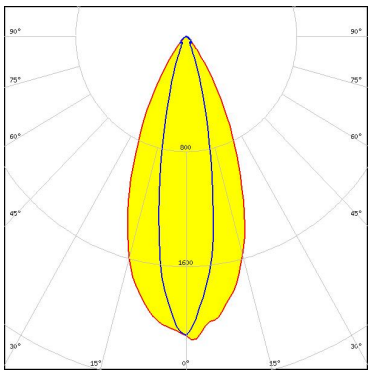




Light distribution files

LUMILEDS

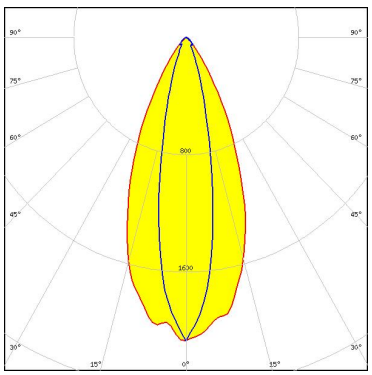
LED	LUXEON 5050 Round LES
FWHM / FWTM	21.0 + 44.0°
Efficiency	78 %
Peak intensity	2.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

LUMILEDS

LED	LUXEON 5050 Square LES
FWHM / FWTM	21.0 + 44.0°
Efficiency	78 %
Peak intensity	2.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

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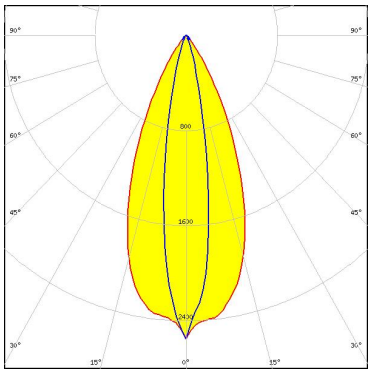
OPTICAL RESULTS (SIMULATED):

LUMILEDS

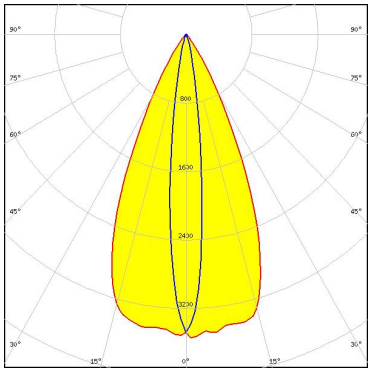
LED	LUXEON MZ
FWHM / FWTM	17.0 + 43.0°
Efficiency	78 %
Peak intensity	2.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

LUMILEDS

LED	LUXEON TX
FWHM / FWTM	13.0 + 48.0°
Efficiency	82 %
Peak intensity	3.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

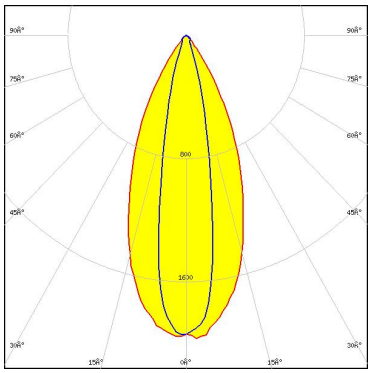


Light distribution files

NICHIA

LED	NCSxE17A
FWHM / FWTM	44.0 + 20.0° / 74.0 + 40.0°
Efficiency	72 %
Peak intensity	2 cd/lm
LEDs/each optic	4
Light colour/type	White
Required components:	





Light distribution files

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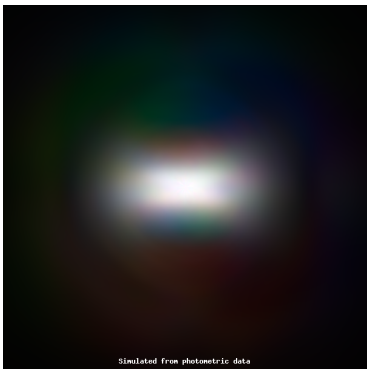
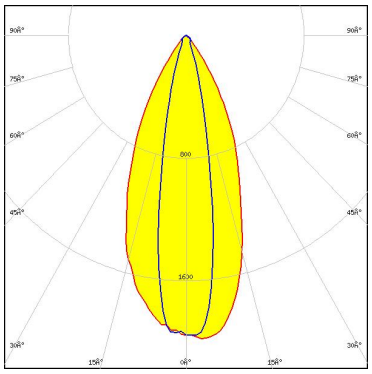
OPTICAL RESULTS (SIMULATED):

NICHIA

LED	NCSxE17A
FWHM / FWTM	44.0 + 20.0° / 74.0 + 39.0°
Efficiency	73 %
Peak intensity	2 cd/lm
LEDs/each optic	4
Light colour/type	RGBW
Required components:	

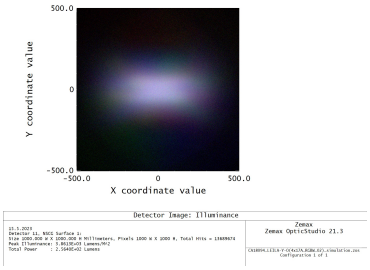


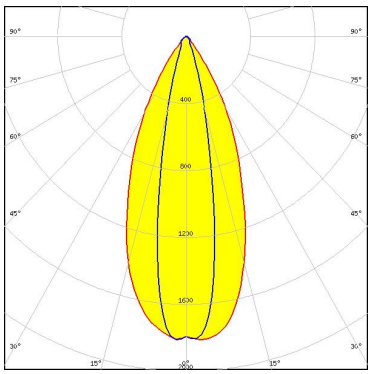


Light distribution files

NICHIA

LED	NCSxE17A
FWHM / FWTM	45.0 + 21.0° / 74.0 + 40.0°
Efficiency	70 %
Peak intensity	1.8 cd/lm
LEDs/each optic	4
Light colour/type	RGBW
Required components:	

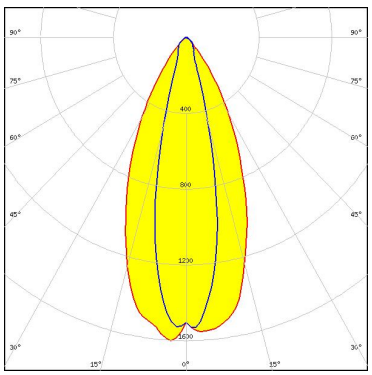




Light distribution files

NICHIA

LED	NV4x144A
FWHM / FWTM	46.0 + 24.0° / 78.0 + 42.0°
Efficiency	69 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

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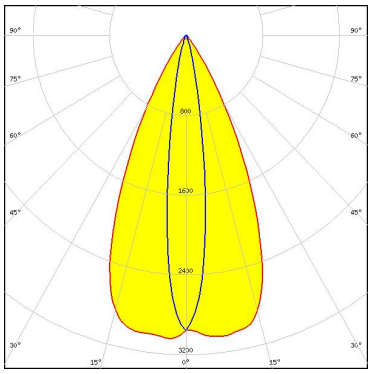
OPTICAL RESULTS (SIMULATED):

NICHIA

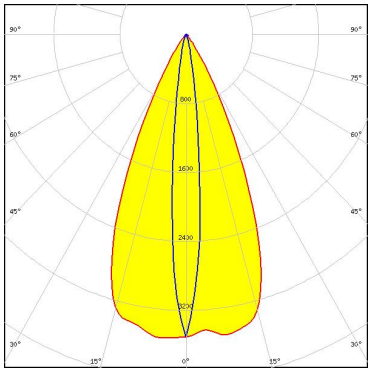
LED	NVSW219F
FWHM / FWTM	15.0 + 50.0°
Efficiency	83 %
Peak intensity	3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

NICHIA

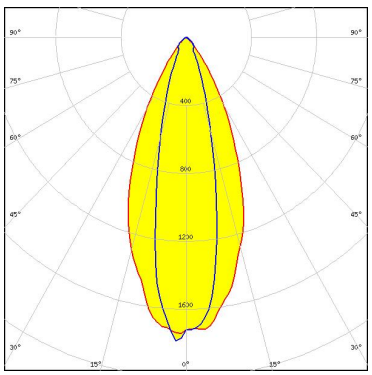
LED	NVSxE21A
FWHM / FWTM	48.0 + 11.0° / 66.0 + 24.0°
Efficiency	77 %
Peak intensity	3.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

OSRAM
Opto Semiconductors

LED	Duris S8
FWHM / FWTM	24.0 + 44.0°
Efficiency	77 %
Peak intensity	1.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

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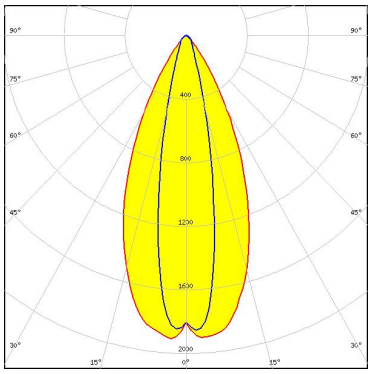
OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

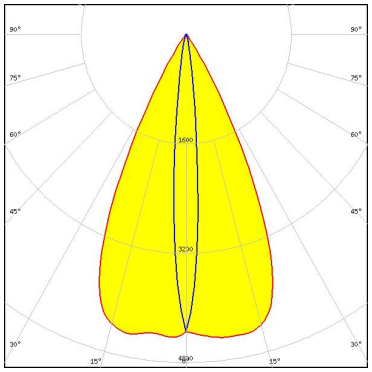
LED	OSCONIQ S 5050
FWHM / FWTM	47.0 + 22.0° / 76.0 + 43.0°
Efficiency	76 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

OSRAM
Opto Semiconductors

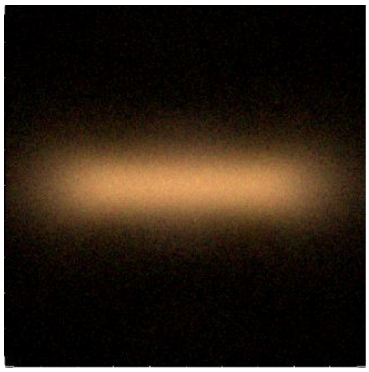
LED	OSLON Pure 1414
FWHM / FWTM	52.0 + 10.0° / 66.0 + 20.0°
Efficiency	84 %
Peak intensity	4.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

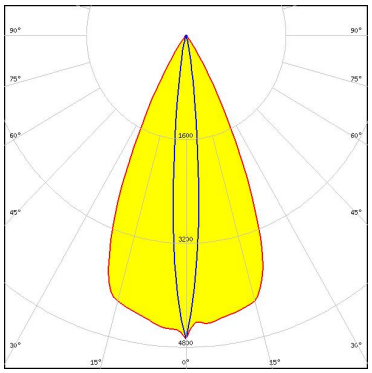


Light distribution files

OSRAM
Opto Semiconductors

LED	OSLON SSL 150
FWHM / FWTM	10.0 + 49.0°
Efficiency	84 %
Peak intensity	4.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	





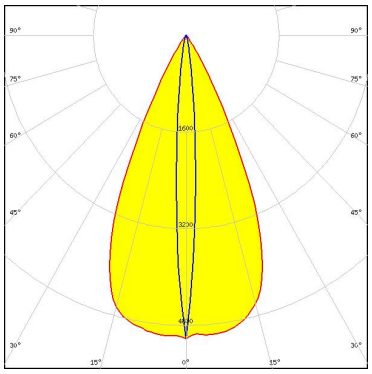
Light distribution files

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

OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

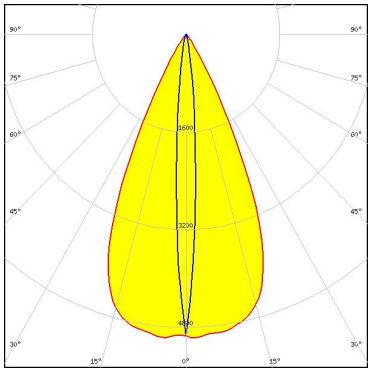
LED	SYNIOS S2222
FWHM / FWTM	48.0 + 8.0° / 65.0 + 20.0°
Efficiency	83 %
Peak intensity	5 cd/lm
LEDs/each optic	1
Light colour/type	Red
Required components:	



Light distribution files

OSRAM
Opto Semiconductors

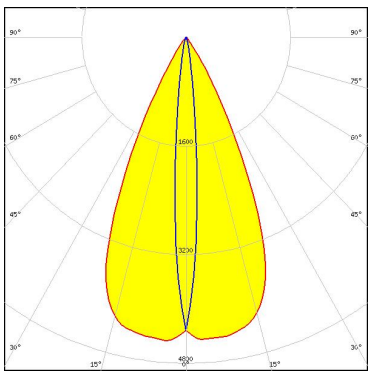
LED	SYNIOS S2222
FWHM / FWTM	50.0 + 8.0° / 66.0 + 20.0°
Efficiency	83 %
Peak intensity	5 cd/lm
LEDs/each optic	1
Light colour/type	Yellow
Required components:	



Light distribution files

OSRAM
Opto Semiconductors

LED	SYNIOS S2222
FWHM / FWTM	50.0 + 9.0° / 67.0 + 20.0°
Efficiency	83 %
Peak intensity	4.5 cd/lm
LEDs/each optic	1
Light colour/type	Blue
Required components:	



Light distribution files

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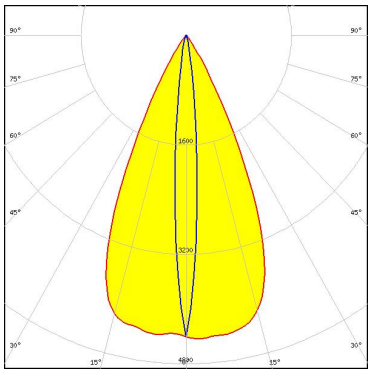
OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

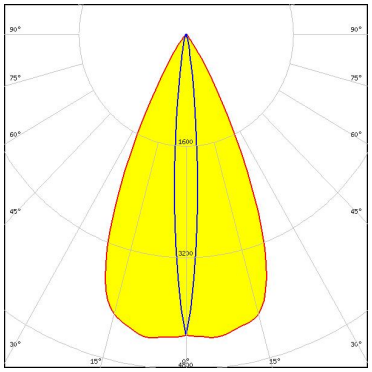
LED	SYNIOS S2222
FWHM / FWTM	50.0 + 8.0° / 66.0 + 20.0°
Efficiency	83 %
Peak intensity	4.4 cd/lm
LEDs/each optic	1
Light colour/type	Green
Required components:	



Light distribution files

OSRAM
Opto Semiconductors

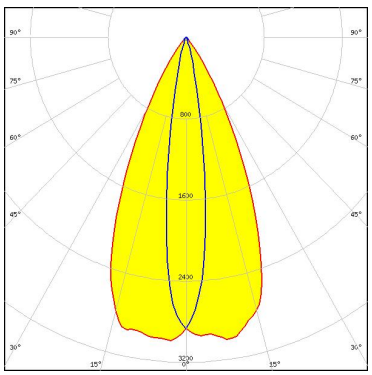
LED	SYNIOS S2222
FWHM / FWTM	50.0 + 10.0° / 67.0 + 20.0°
Efficiency	82 %
Peak intensity	4.4 cd/lm
LEDs/each optic	1
Light colour/type	Blue
Required components:	



Light distribution files

SAMSUNG

LED	LH351B
FWHM / FWTM	15.0 + 49.0°
Efficiency	81 %
Peak intensity	3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

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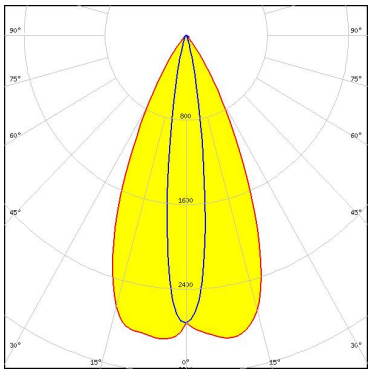
OPTICAL RESULTS (SIMULATED):

SEOUL SEMICONDUCTOR

LED	Z5M4
FWHM / FWTM	48.0 + 16.0° / 72.0 + 30.0°
Efficiency	81 %
Peak intensity	2.9 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:

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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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