VERONICA-SQ-O

~55° + 12° oval beam



SPECIFICATION:

Dimensions	Ø 22.5
Height	12.2 mm
Fastening	tape, pin
ROHS compliant	yes

MATERIALS:

Component	Type	Material	Colour	Finish	Length (mm)
VERONICA-SQ-O	Single lens	PMMA	clear		
» Box size: 480 x 280 x 300 mm					
VERONICA-TAPE	Tape	Acryl tape	clear		
» Box size: 480 x 280 x 300 mm					

ORDERING INFORMATION:

Component	Type	Qty in box	MOQ	MPQ	Box weight (kg)
C13728_VERONICA-SQ-O	Single lens	1980	360	90	8.2
C13729_VERONICA-TAPE	Tape	1980	360	90	8.2

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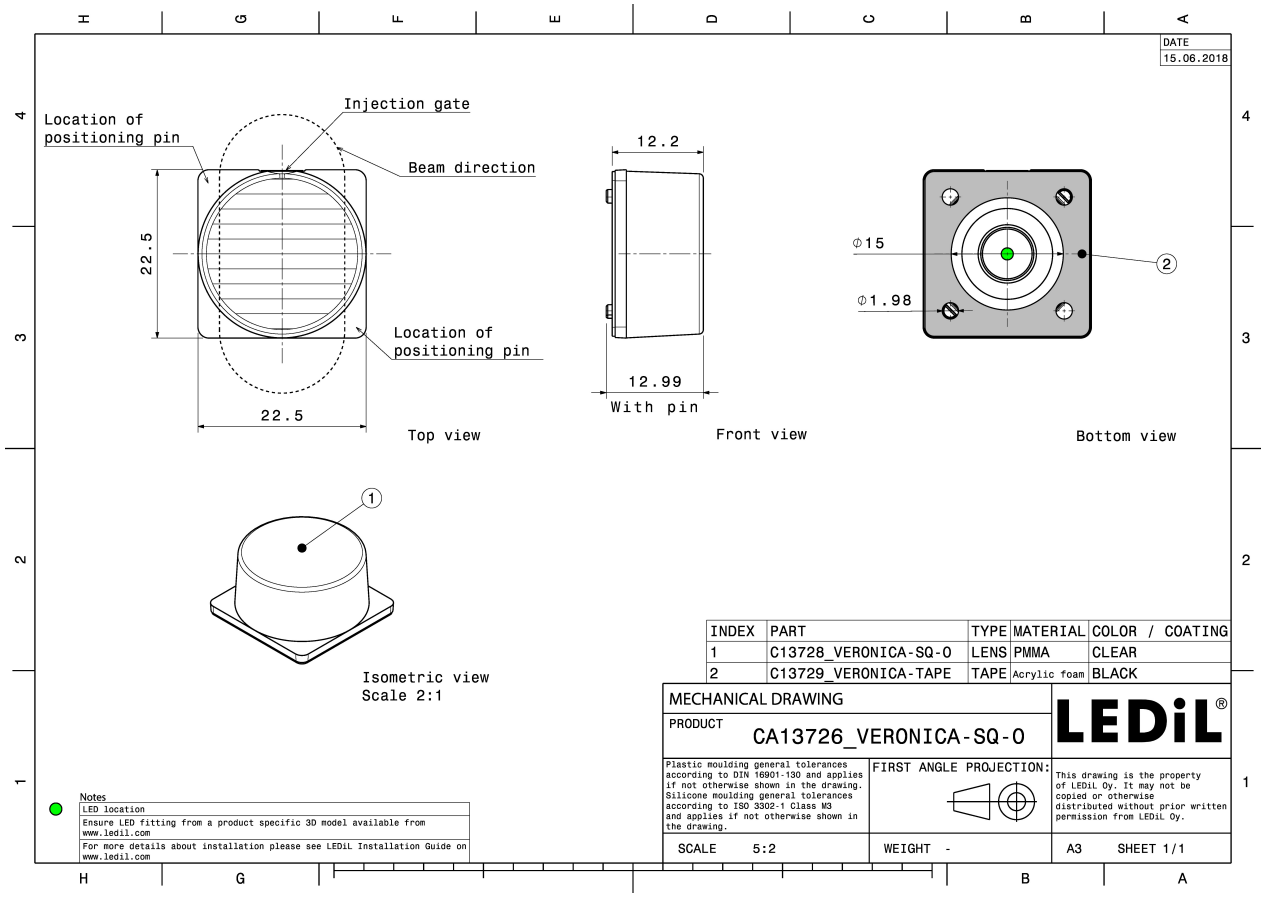

See also our general installation guide: www.ledil.com/installation_guide

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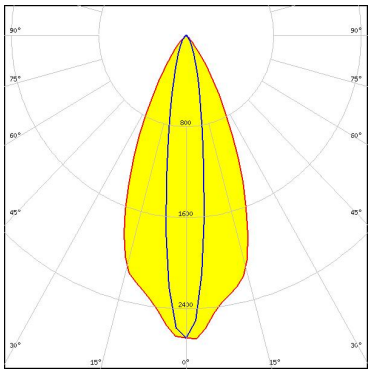
OPTICAL RESULTS (MEASURED):

CREE LEDs

LED	XB-H
FWHM / FWTM	45.0 + 16.0° / 73.0 + 40.0°
Efficiency	77 %
Peak intensity	2.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



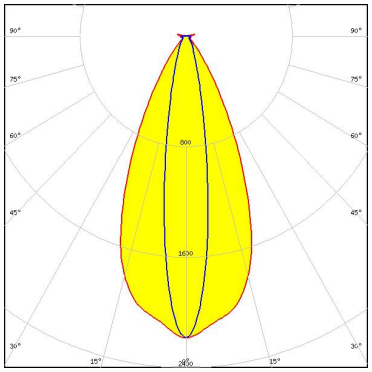


Light distribution files

CREE LEDs

LED	XD16
FWHM / FWTM	47.0 + 17.0° / 76.0 + 41.0°
Efficiency	87 %
Peak intensity	2.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	





Light distribution files

CREE LEDs

LED	XHP35 HD
FWHM / FWTM	45.0 + 20.0° / 78.0 + 48.0°
Efficiency	73 %
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 (MEASURED):

CREE LEDs

LED	XHP35 HI
FWHM / FWTM	46.0 + 16.0° / 74.0 + 40.0°
Efficiency	75 %
Peak intensity	2.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

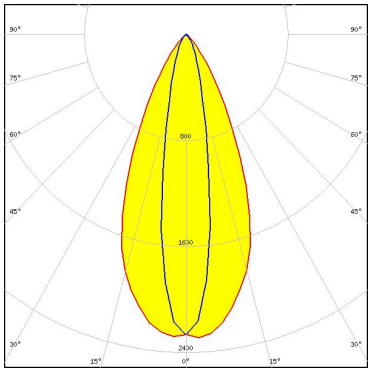


Light distribution files

CREE LEDs

LED	XM-L
FWHM / FWTM	47.0 + 20.0° / 77.0 + 46.0°
Efficiency	80 %
Peak intensity	2.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



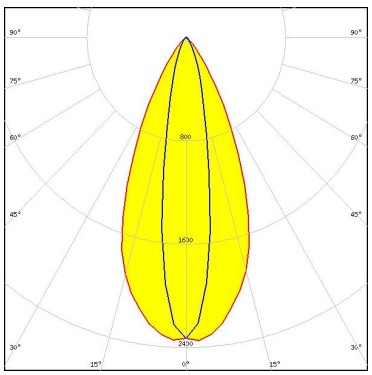


Light distribution files

CREE LEDs

LED	XM-L2
FWHM / FWTM	47.0 + 20.0° / 76.0 + 45.0°
Efficiency	80 %
Peak intensity	2.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	





Light distribution files

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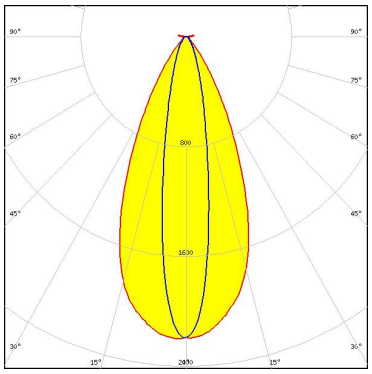
OPTICAL RESULTS (MEASURED):

CREE LEDs

LED	XM-L3
FWHM / FWTM	47.0 + 19.0° / 77.0 + 46.0°
Efficiency	88 %
Peak intensity	2.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



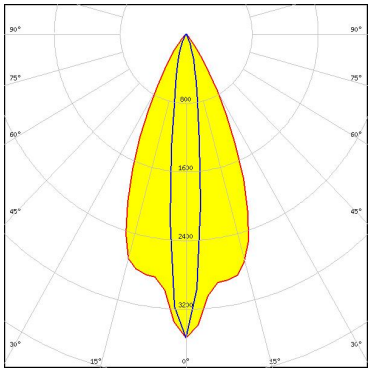


Light distribution files

CREE LEDs

LED	XP-E2
FWHM / FWTM	46.0 + 12.0° / 71.0 + 34.0°
Efficiency	80 %
Peak intensity	3.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



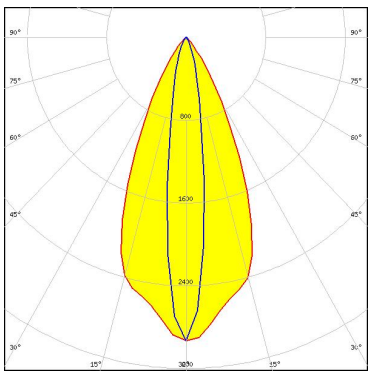


Light distribution files

CREE LEDs

LED	XP-G2
FWHM / FWTM	47.0 + 14.0° / 76.0 + 40.0°
Efficiency	80 %
Peak intensity	2.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	





Light distribution files

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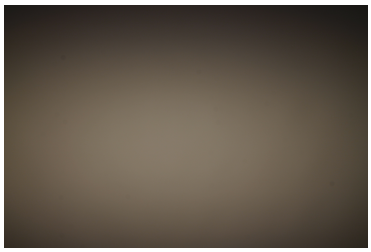
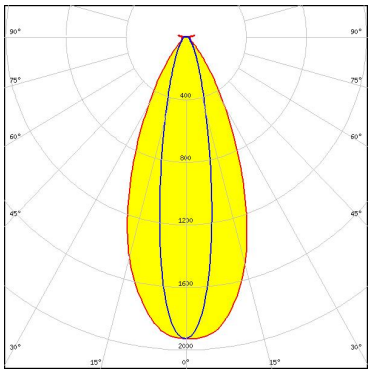
OPTICAL RESULTS (MEASURED):

CREE LEDs

LED	XP-L2
FWHM / FWTM	45.0 + 20.0° / 78.0 + 49.0°
Efficiency	86 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



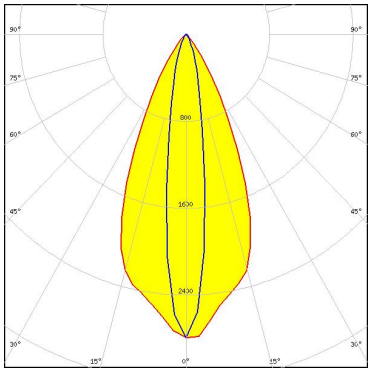


Light distribution files

CREE LEDs

LED	XT-E
FWHM / FWTM	47.0 + 16.0° / 74.0 + 40.0°
Efficiency	79 %
Peak intensity	2.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



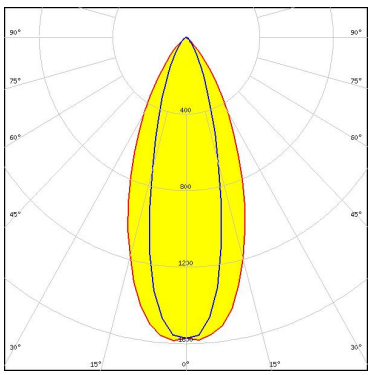


Light distribution files

LUMILEDS

LED	LUXEON M/MX
FWHM / FWTM	45.0 + 28.0° / 81.0 + 60.0°
Efficiency	76 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	





Light distribution files

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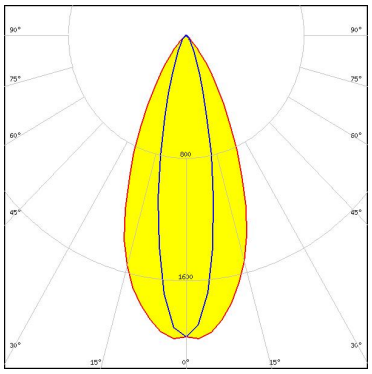
OPTICAL RESULTS (MEASURED):

LUMILEDS

LED	LUXEON MZ
FWHM / FWTM	47.0 + 23.0° / 77.0 + 46.0°
Efficiency	73 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



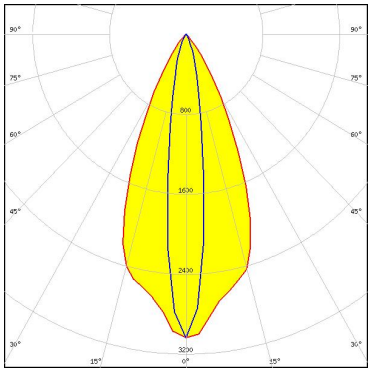


Light distribution files

LUMILEDS

LED	LUXEON Rebel
FWHM / FWTM	47.0 + 15.0° / 72.0 + 38.0°
Efficiency	80 %
Peak intensity	3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



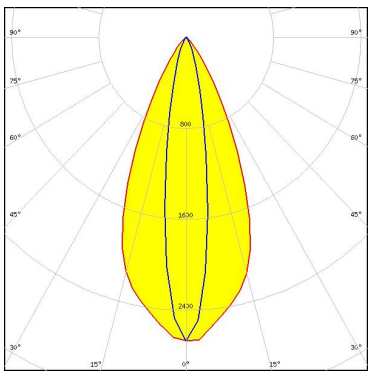


Light distribution files

LUMILEDS

LED	LUXEON Rebel ES
FWHM / FWTM	47.0 + 17.0° / 74.0 + 39.0°
Efficiency	80 %
Peak intensity	2.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	





Light distribution files

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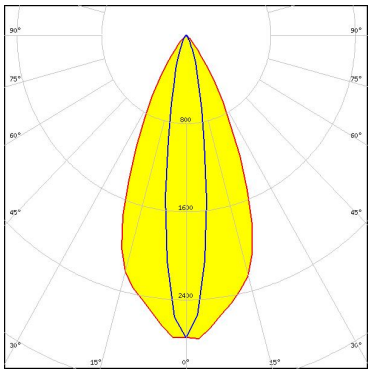
OPTICAL RESULTS (MEASURED):

LUMILEDS

LED	LUXEON T
FWHM / FWTM	47.0 + 17.0° / 74.0 + 39.0°
Efficiency	80 %
Peak intensity	2.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



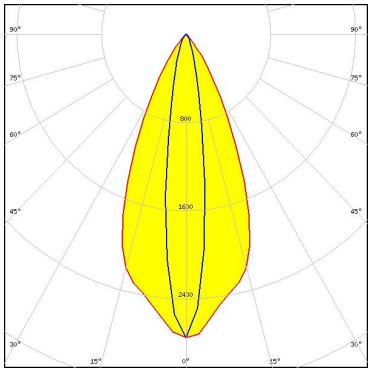


Light distribution files

LUMILEDS

LED	LUXEON TX
FWHM / FWTM	46.0 + 16.0° / 73.0 + 37.0°
Efficiency	77 %
Peak intensity	2.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



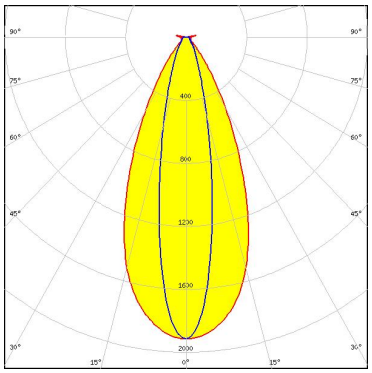


Light distribution files

LUMILEDS

LED	LUXEON V
FWHM / FWTM	46.0 + 21.0° / 79.0 + 50.0°
Efficiency	88 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	





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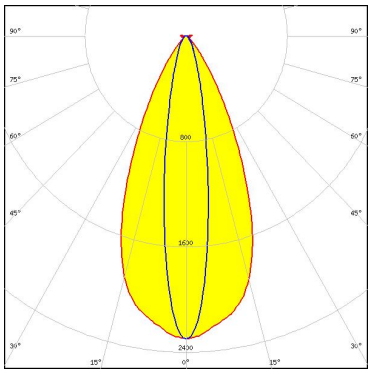
OPTICAL RESULTS (MEASURED):

LUMILEDS

LED	LUXEON V2
FWHM / FWTM	47.0 + 17.0° / 76.0 + 43.0°
Efficiency	87 %
Peak intensity	2.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



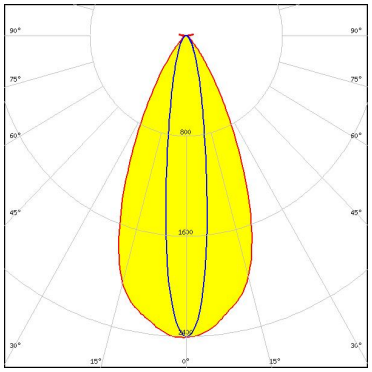


Light distribution files

NICHIA

LED	NVSW219F-V2
FWHM / FWTM	48.0 + 16.0° / 76.0 + 42.0°
Efficiency	88 %
Peak intensity	2.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



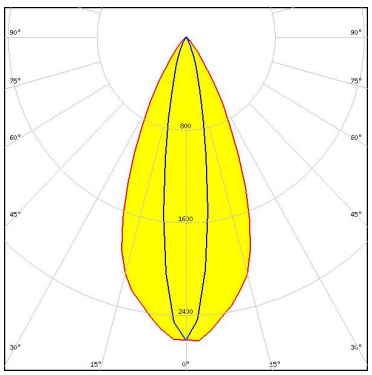


Light distribution files

NICHIA

LED	NVSxx19B/NVSxx19C
FWHM / FWTM	47.0 + 18.0° / 74.0 + 37.0°
Efficiency	80 %
Peak intensity	2.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	





Light distribution files

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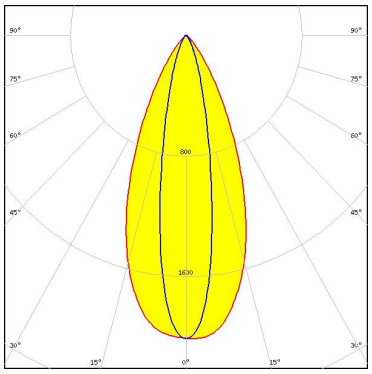
OPTICAL RESULTS (MEASURED):

NICHIA

LED	NWSx229A
FWHM / FWTM	20.0 + 45.0° / 75.0 + 45.0°
Efficiency	74 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



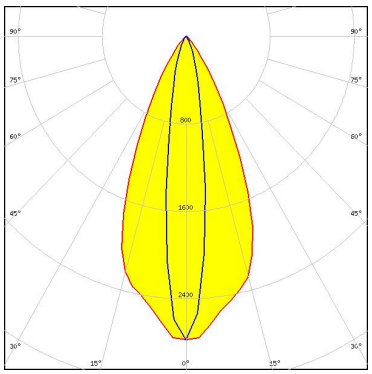


Light distribution files

OSRAM
Opto Semiconductors

LED	OSLON Square EC
FWHM / FWTM	47.0 + 17.0° / 74.0 + 39.0°
Efficiency	79 %
Peak intensity	2.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



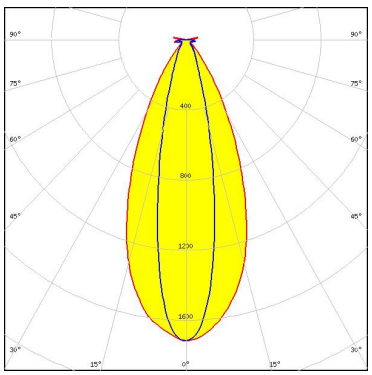


Light distribution files

SAMSUNG

LED	LH181A
FWHM / FWTM	46.0 + 22.0° / 79.0 + 48.0°
Efficiency	85 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	





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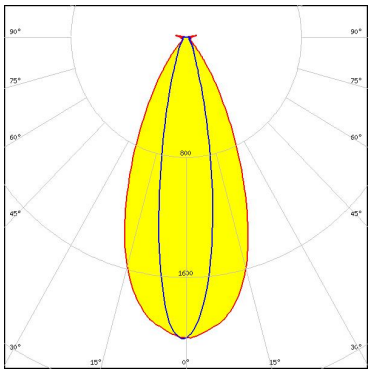
OPTICAL RESULTS (MEASURED):

SAMSUNG

LED	LH181B
FWHM / FWTM	46.0 + 21.0° / 78.0 + 44.0°
Efficiency	88 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



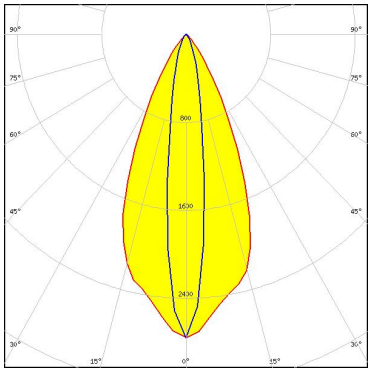


Light distribution files

SAMSUNG

LED	LH351Z
FWHM / FWTM	47.0 + 15.0° / 73.0 + 40.0°
Efficiency	78 %
Peak intensity	2.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



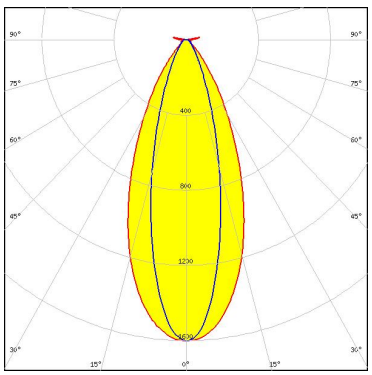


Light distribution files

SEOUL SEMICONDUCTOR

LED	MJT 5050
FWHM / FWTM	45.0 + 28.0° / 82.0 + 60.0°
Efficiency	87 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	





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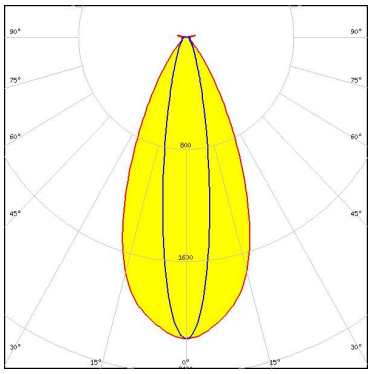
OPTICAL RESULTS (MEASURED):

SEOUL SEMICONDUCTOR

LED	Z5M3
FWHM / FWTM	47.0 + 18.0° / 77.0 + 45.0°
Efficiency	89 %
Peak intensity	2.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



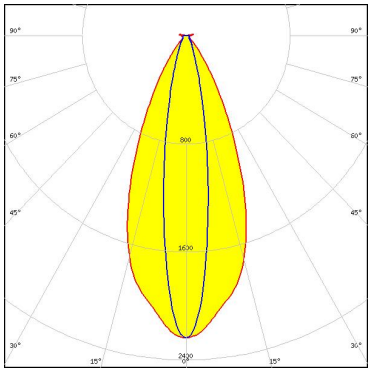


Light distribution files

SEOUL SEMICONDUCTOR

LED	Z8Y22P
FWHM / FWTM	45.0 + 18.0° / 75.0 + 42.0°
Efficiency	86 %
Peak intensity	2.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

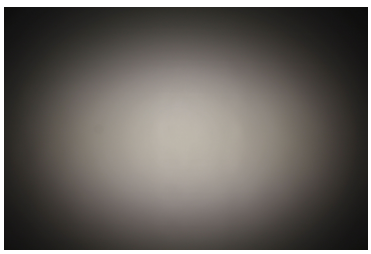


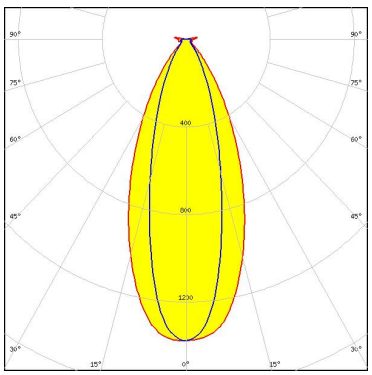


Light distribution files

SEOUL SEMICONDUCTOR

LED	Z8Y50P
FWHM / FWTM	45.0 + 29.0° / 83.0 + 65.0°
Efficiency	81 %
Peak intensity	1.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	





Light distribution files

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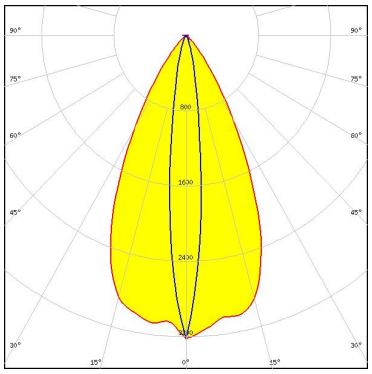
OPTICAL RESULTS (SIMULATED):

CREE LEDs

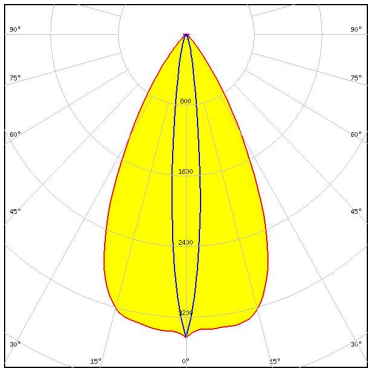
LED	XP-E2
FWHM / FWTM	52.0 + 12.0° / 79.0 + 31.0°
Efficiency	88 %
Peak intensity	3.3 cd/lm
LEDs/each optic	1
Light colour/type	Amber
Required components:	



Light distribution files

CREE LEDs

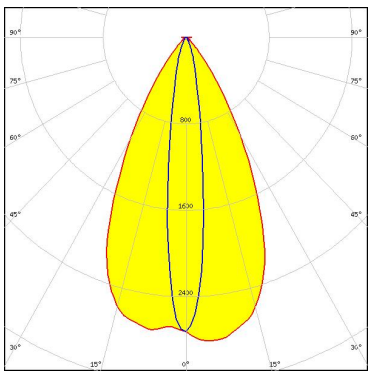
LED	XP-E2
FWHM / FWTM	54.0 + 12.0° / 80.0 + 26.0°
Efficiency	89 %
Peak intensity	3.4 cd/lm
LEDs/each optic	1
Light colour/type	Blue
Required components:	



Light distribution files

CREE LEDs

LED	XP-G2 HE
FWHM / FWTM	54.0 + 14.0° / 80.0 + 35.0°
Efficiency	92 %
Peak intensity	2.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

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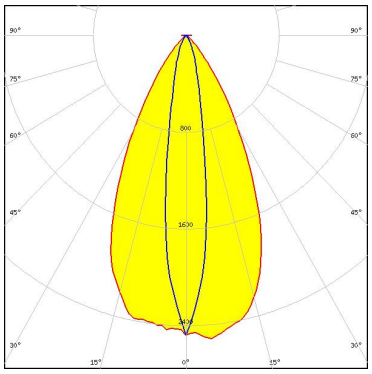
OPTICAL RESULTS (SIMULATED):

CREE LEDs

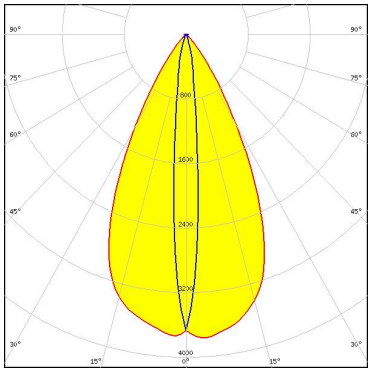
LED	XP-L HD
FWHM / FWTM	53.0 + 16.0° / 82.0 + 38.0°
Efficiency	86 %
Peak intensity	2.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

CREE LEDs

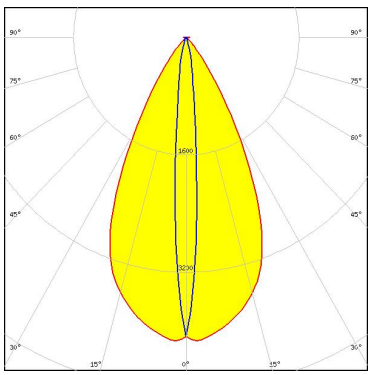
LED	XQ-E HD
FWHM / FWTM	53.0 + 10.0° / 78.0 + 27.0°
Efficiency	89 %
Peak intensity	3.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

CREE LEDs

LED	XQ-E HI
FWHM / FWTM	53.0 + 8.0° / 76.0 + 24.0°
Efficiency	89 %
Peak intensity	4.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

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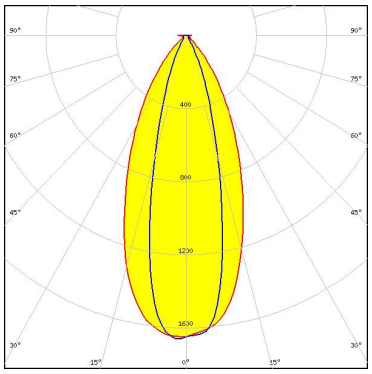
OPTICAL RESULTS (SIMULATED):

LUMILEDS

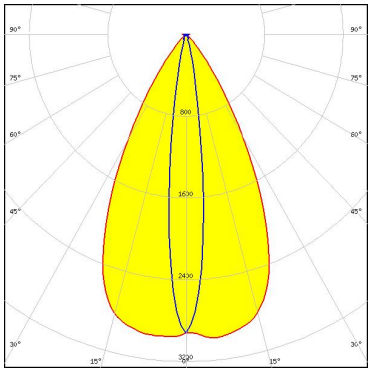
LED	LUXEON C
FWHM / FWTM	46.0 + 27.0° / 85.0 + 53.0°
Efficiency	84 %
Peak intensity	1.7 cd/lm
LEDs/each optic	4
Light colour/type	RGBW
Required components:	



Light distribution files

LUMILEDS

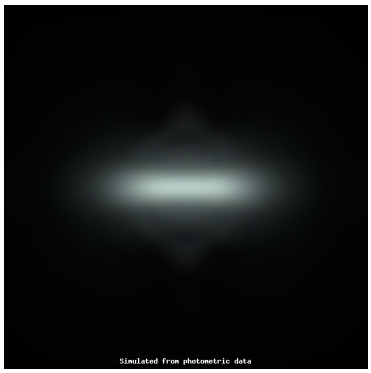
LED	LUXEON HL1Z (White)
FWHM / FWTM	56.0 + 14.0° / 80.0 + 26.0°
Efficiency	89 %
Peak intensity	3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

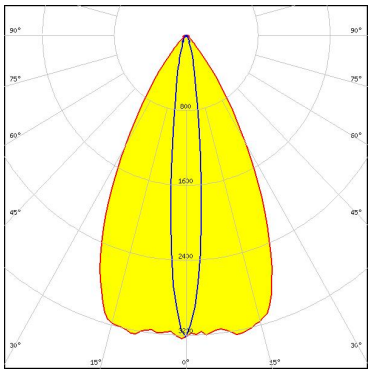


Light distribution files

LUMINUS

LED	SFT-40 Gen2
FWHM / FWTM	56.0 + 12.0° / 80.0 + 30.0°
Efficiency	92 %
Peak intensity	3.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	





Light distribution files

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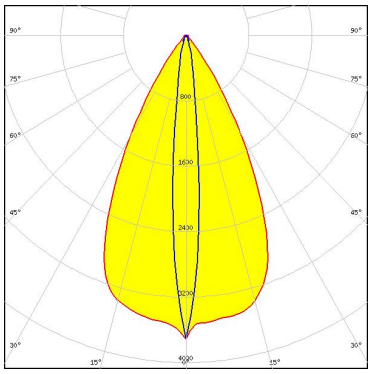
OPTICAL RESULTS (SIMULATED):

LUMINUS

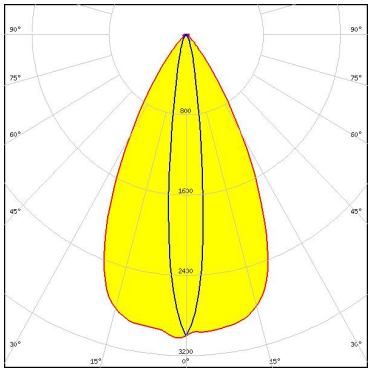
LED	SFT-40-WCS
FWHM / FWTM	54.0 + 10.0° / 78.0 + 26.0°
Efficiency	92 %
Peak intensity	3.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

LUMINUS

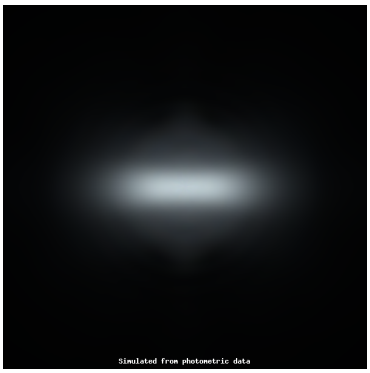
LED	SFT-70X-WCS
FWHM / FWTM	54.0 + 14.0° / 80.0 + 31.0°
Efficiency	92 %
Peak intensity	3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

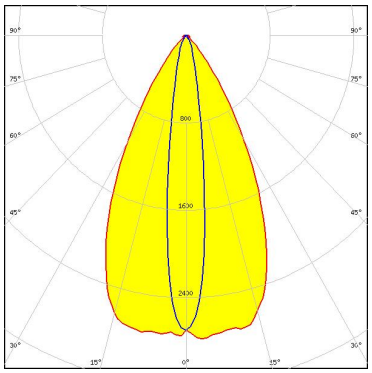


Light distribution files

LUMINUS

LED	SFT-70X-WES-Gen2
FWHM / FWTM	56.0 + 14.0° / 82.0 + 34.0°
Efficiency	91 %
Peak intensity	2.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	





Light distribution files

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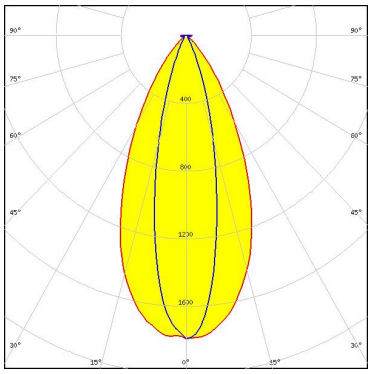
OPTICAL RESULTS (SIMULATED):

NICHIA

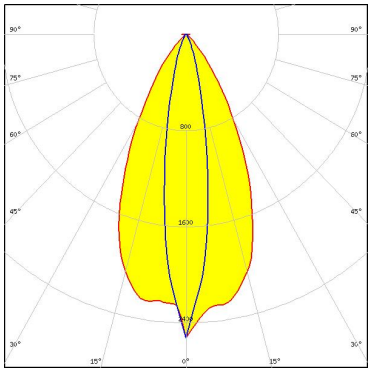
LED	NCSxE17A
FWHM / FWTM	50.0 + 24.0° / 84.0 + 48.0°
Efficiency	83 %
Peak intensity	1.8 cd/lm
LEDs/each optic	4
Light colour/type	White
Required components:	



Light distribution files

NICHIA

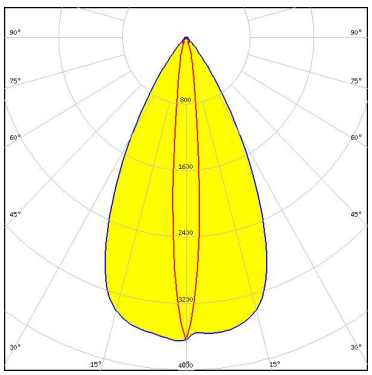
LED	NV4WB35AM
FWHM / FWTM	50.0 + 18.0° / 82.0 + 40.0°
Efficiency	88 %
Peak intensity	2.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

NICHIA

LED	NVSW219GF
FWHM / FWTM	54.0 + 10.0° / 78.0 + 26.0°
Efficiency	91 %
Peak intensity	3.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

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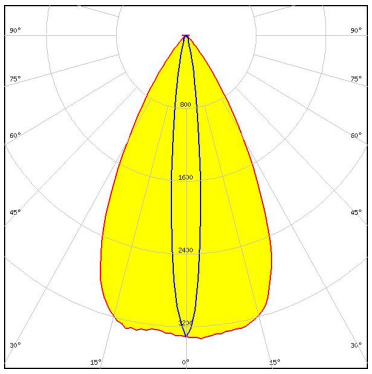
OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

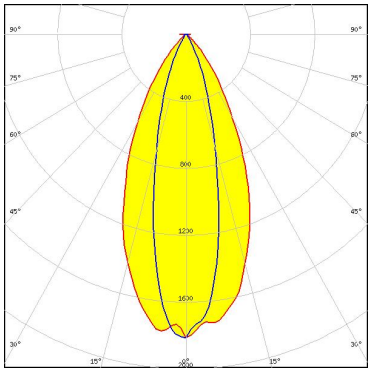
LED	OSCONIQ P 3030
FWHM / FWTM	56.0 + 12.0° / 79.0 + 26.0°
Efficiency	88 %
Peak intensity	3.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

OSRAM
Opto Semiconductors

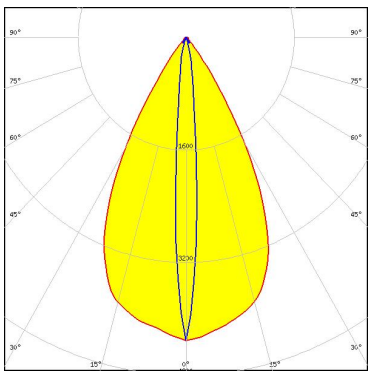
LED	OSCONIQ P 7070
FWHM / FWTM	49.0 + 25.0° / 83.0 + 53.0°
Efficiency	84 %
Peak intensity	1.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

OSRAM
Opto Semiconductors

LED	OSLON Pure 1414
FWHM / FWTM	56.0 + 8.0° / 76.0 + 22.0°
Efficiency	92 %
Peak intensity	4.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



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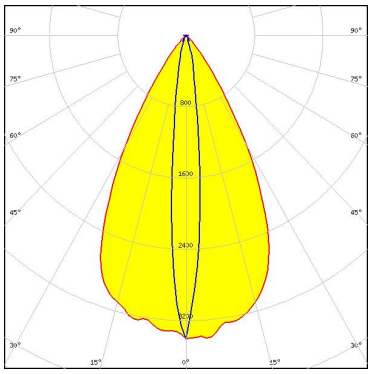
OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

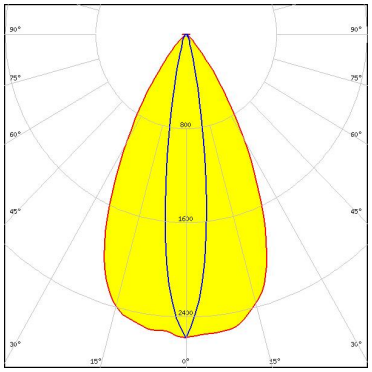
LED	OSLON Square CSSRM2/CSSRM3
FWHM / FWTM	56.0 + 12.0° / 58.0 + 28.0°
Efficiency	88 %
Peak intensity	3.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

OSRAM
Opto Semiconductors

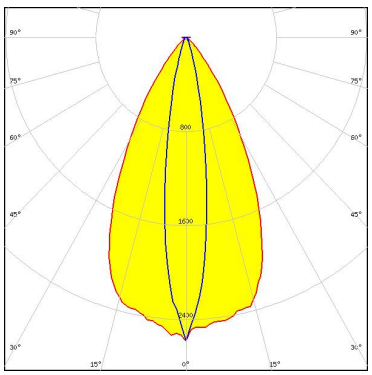
LED	SFH 4715AS
FWHM / FWTM	56.0 + 16.0° / 82.0 + 30.0°
Efficiency	88 %
LEDs/each optic	1
Light colour/type	IR
Required components:	



Light distribution files

SEOUL SEMICONDUCTOR

LED	Z8Y22T
FWHM / FWTM	54.0 + 16.0° / 82.0 + 35.0°
Efficiency	89 %
Peak intensity	2.6 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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