HEIDI-RS

~8° spot beam

SPECIFICATION:

Dimensions	Ø 21.6
Height	11.7 mm
Fastening	tape, pin
ROHS compliant	yes

MATERIALS:

Component	Type	Material	Colour	Finish	Length
HEIDI-RS	Single lens	PMMA	clear		21.6
HEIDI-TAPE	Tape	Acrylic foam	black		

ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CA12537_HEIDI-RS » Box size: 480 x 280 x 300 mm	Single lens	3264	204	204	11.1

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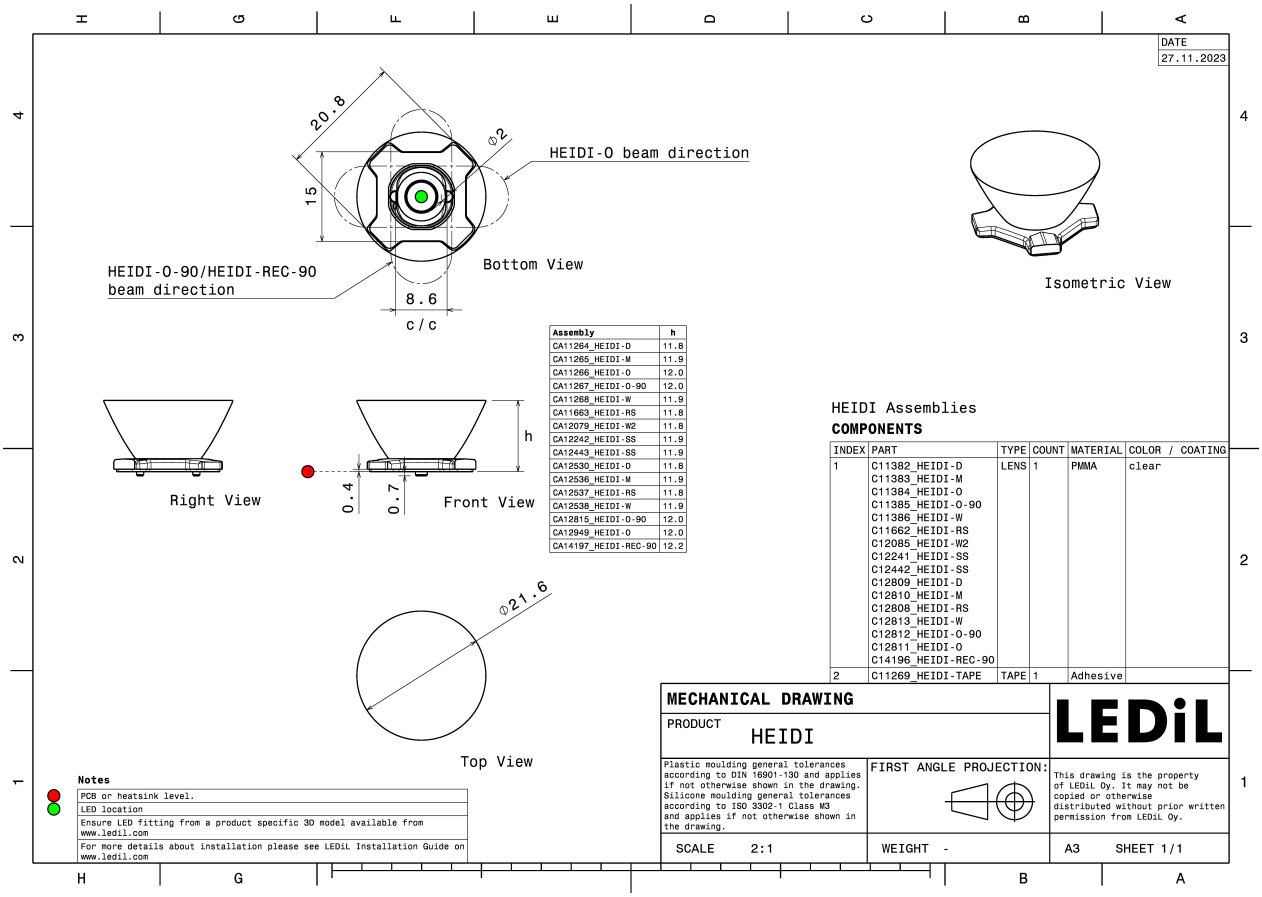

Assembly	h
CA11264_HEIDI-D	11.8
CA11265_HEIDI-M	11.9
CA11266_HEIDI-O	12.0
CA11267_HEIDI-O-90	12.0
CA11268_HEIDI-W	11.9
CA11663_HEIDI-RS	11.8
CA12079_HEIDI-W2	11.8
CA12242_HEIDI-SS	11.9
CA12443_HEIDI-SS	11.9
CA12530_HEIDI-D	11.8
CA12536_HEIDI-M	11.9
CA12537_HEIDI-RS	11.8
CA12538_HEIDI-W	11.9
CA12815_HEIDI-O-90	12.0
CA12949_HEIDI-O	12.0
CA14197_HEIDI-REC-90	12.2

HEIDI Assemblies

COMPONENTS

INDEX	PART	TYPE	COUNT	MATERIAL	COLOR / COATING
1	C11382_HEIDI-D C11383_HEIDI-M C11384_HEIDI-O C11385_HEIDI-O-90 C11386_HEIDI-W C11662_HEIDI-RS C12085_HEIDI-W2 C12241_HEIDI-SS C12442_HEIDI-SS C12809_HEIDI-D C12810_HEIDI-M C12808_HEIDI-RS C12813_HEIDI-W C12812_HEIDI-O-90 C12811_HEIDI-O C14196_HEIDI-REC-90	LENS	1	PMMA	clear
2	C11269_HEIDI-TAPE	TAPE	1	Adhesive	

Notes

PCB or heatsink level.
LED location
Ensure LED fitting from a product specific 3D model available from www.ledil.com
For more details about installation please see LEDiL Installation Guide on www.ledil.com

MECHANICAL DRAWING

PRODUCT HEIDI

LEDiL

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:

This drawing is the property of LEDiL Oy. It may not be copied or otherwise distributed without prior written permission from LEDiL Oy.

SCALE 2:1 | WEIGHT - | A3 SHEET 1/1

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

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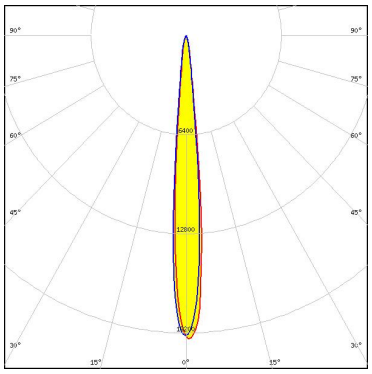
OPTICAL RESULTS (MEASURED):

CREE LEDs

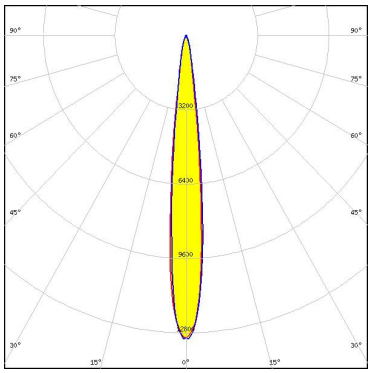
LED	XP-G2
FWHM / FWTM	10.0° / 18.0°
Efficiency	94 %
Peak intensity	20 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

CREE LEDs

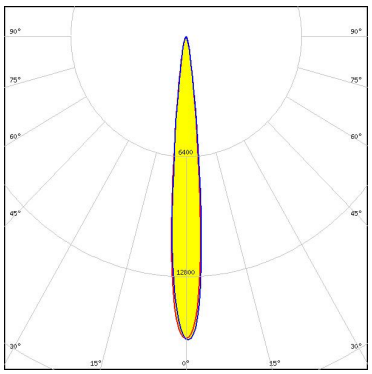
LED	XP-G3
FWHM / FWTM	12.0° / 23.0°
Efficiency	94 %
Peak intensity	13 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

CREE LEDs

LED	XP-G4
FWHM / FWTM	11.0° / 21.0°
Efficiency	96 %
Peak intensity	16.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

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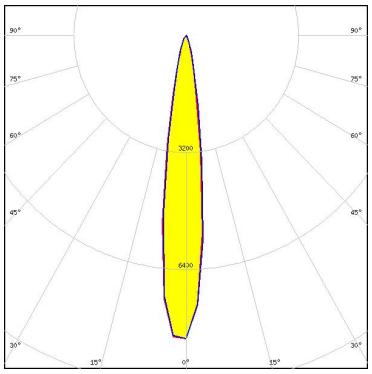
OPTICAL RESULTS (MEASURED):

CREE LEDs

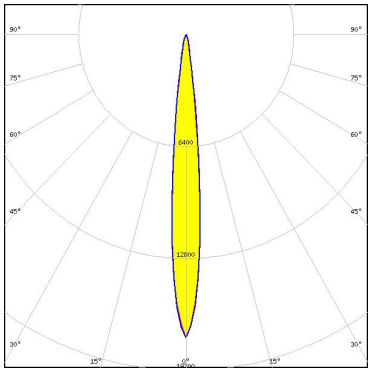
LED	XP-L HD
FWHM / FWTM	15.0° / 29.0°
Efficiency	89 %
Peak intensity	8.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

LUMILEDS

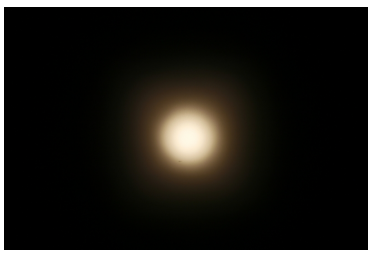
LED	LUXEON A
FWHM / FWTM	11.0° / 20.0°
Efficiency	87 %
Peak intensity	15.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

LUMILEDS

LED	LUXEON Rebel
FWHM / FWTM	8.0° / 17.0°
Efficiency	88 %
Peak intensity	26 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

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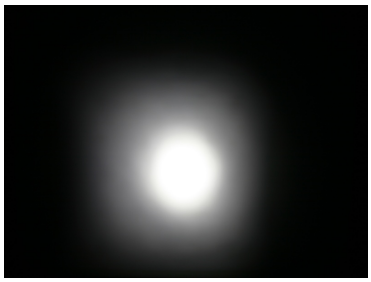
OPTICAL RESULTS (MEASURED):

LUMILEDS

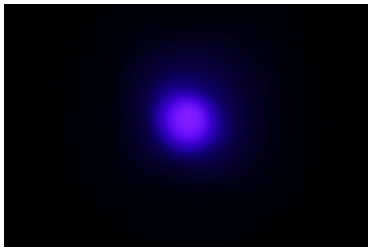
LED	LUXEON Rebel ES
FWHM / FWTM	11.0° / 20.0°
Efficiency	86 %
Peak intensity	15.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

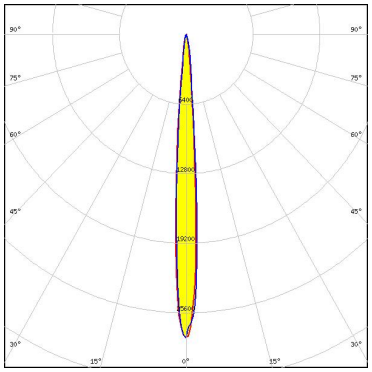


Light distribution files

LUMINUS

LED	SST-10-B130
FWHM / FWTM	8.0° / 16.0°
Efficiency	96 %
Peak intensity	27.9 cd/lm
LEDs/each optic	1
Light colour/type	Blue
Required components:	

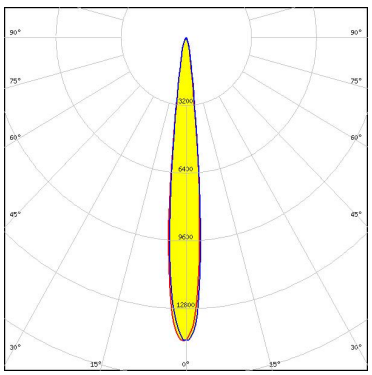




Light distribution files

NICHIA

LED	NVSW219D
FWHM / FWTM	11.0° / 21.0°
Efficiency	94 %
Peak intensity	14.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

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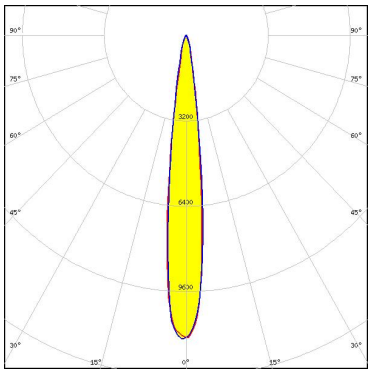
OPTICAL RESULTS (MEASURED):

NICHIA

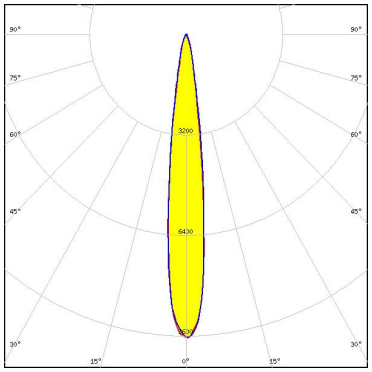
LED	NVSW319B
FWHM / FWTM	13.0° / 25.0°
Efficiency	94 %
Peak intensity	11.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

NICHIA

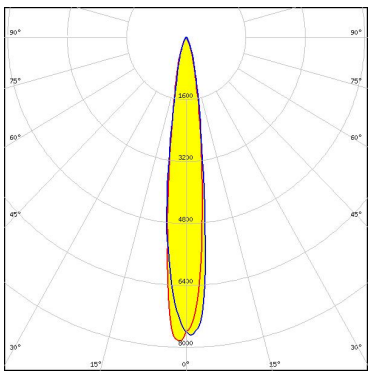
LED	NVSW3x9A
FWHM / FWTM	13.0° / 27.0°
Efficiency	92 %
Peak intensity	9.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

NICHIA

LED	NVSW519A
FWHM / FWTM	14.0° / 33.0°
Efficiency	93 %
Peak intensity	8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

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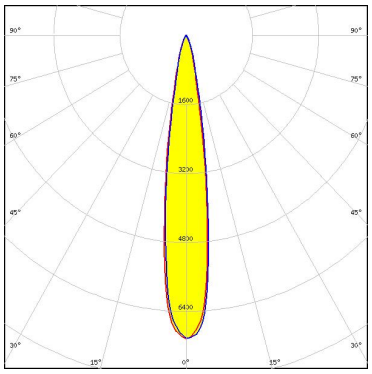
OPTICAL RESULTS (MEASURED):

NICHIA

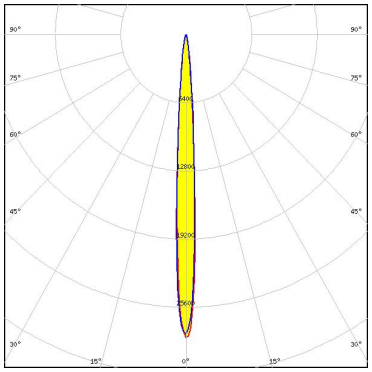
LED	NWSx229A
FWHM / FWTM	16.0° / 32.0°
Efficiency	87 %
Peak intensity	7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

OSRAM
Opto Semiconductors

LED	OSLON SSL 150
FWHM / FWTM	7.0° / 16.0°
Efficiency	89 %
Peak intensity	28.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

OSRAM
Opto Semiconductors

LED	PLPVEC2 850A
FWHM / FWTM	6.0° / 16.0°
Efficiency	%
LEDs/each optic	1
Light colour/type	IR
Required components:	

Light distribution files

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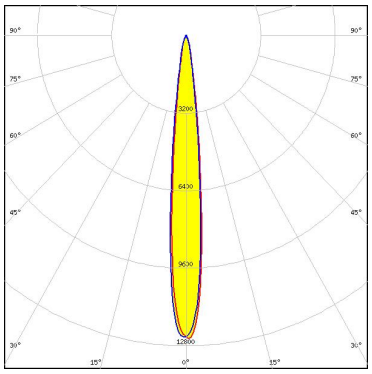
OPTICAL RESULTS (MEASURED):

SEOUL SEMICONDUCTOR

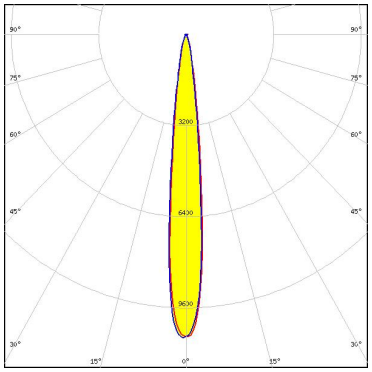
LED	Z5M3
FWHM / FWTM	11.0° / 23.0°
Efficiency	94 %
Peak intensity	12.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

SEOUL SEMICONDUCTOR

LED	Z8Y22P
FWHM / FWTM	12.0° / 25.0°
Efficiency	94 %
Peak intensity	10.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

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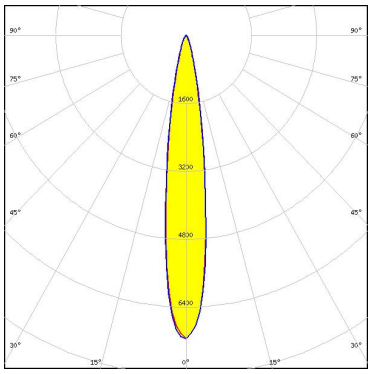
OPTICAL RESULTS (SIMULATED):

CREE LEDs

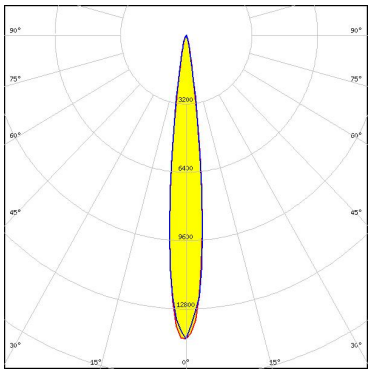
LED	XHP35 HD
FWHM / FWTM	16.0° / 32.0°
Efficiency	94 %
Peak intensity	7.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

CREE LEDs

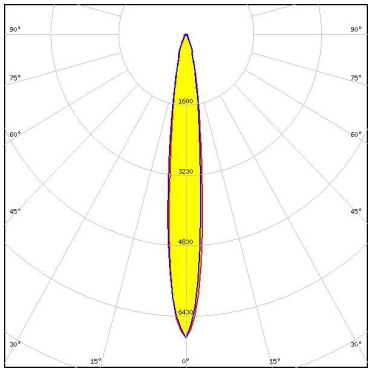
LED	XHP35 HI
FWHM / FWTM	12.0° / 22.0°
Efficiency	96 %
Peak intensity	14.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

CREE LEDs

LED	XHP35.2 HI
FWHM / FWTM	13.0° / 32.0°
Efficiency	88 %
Peak intensity	6.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



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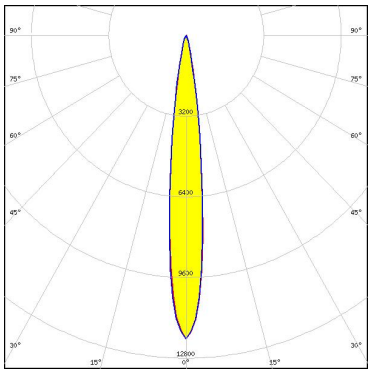
OPTICAL RESULTS (SIMULATED):

CREE LEDs

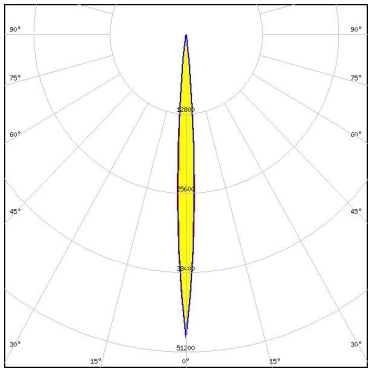
LED	XP-G2 HE
FWHM / FWTM	12.0° / 26.0°
Efficiency	95 %
Peak intensity	12 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

LUMILEDS

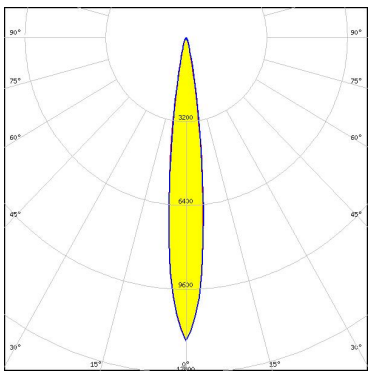
LED	LUXEON CZ
FWHM / FWTM	6.0° / 14.0°
Efficiency	96 %
Peak intensity	48.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

LUMILEDS

LED	LUXEON HL2X
FWHM / FWTM	14.0° / 26.0°
Efficiency	95 %
Peak intensity	11.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

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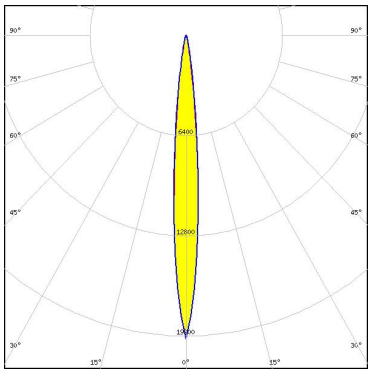
OPTICAL RESULTS (SIMULATED):

LUMILEDS

LED	LUXEON HL2Z
FWHM / FWTM	10.0° / 20.0°
Efficiency	95 %
Peak intensity	19.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



LUMILEDS

LED	LUXEON IR Domed 150 (L1I0-0xxx150000000)
FWHM / FWTM	11.0° / 22.0°
Efficiency	94 %
LEDs/each optic	1
Light colour/type	White
Required components:	

Light distribution files

LUMILEDS

LED	LUXEON IR Domed 90 (L1I0-0xxx090000000)
FWHM / FWTM	11.0° / 23.0°
Efficiency	94 %
LEDs/each optic	1
Light colour/type	White
Required components:	

Light distribution files

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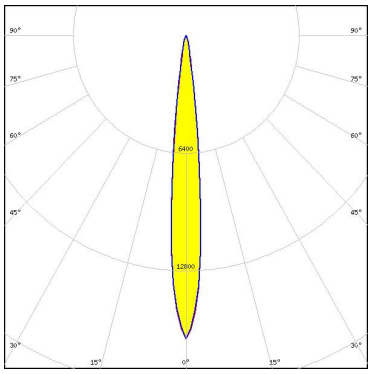
OPTICAL RESULTS (SIMULATED):

LUMILEDS

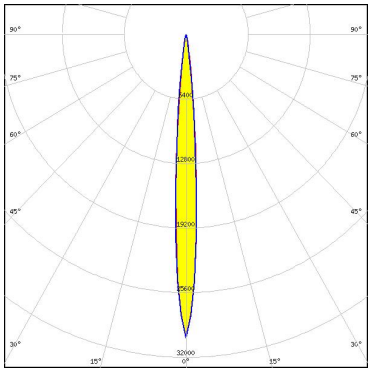
LED	LUXEON R
FWHM / FWTM	11.0° / 20.0°
Efficiency	92 %
Peak intensity	16.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

LUMILEDS

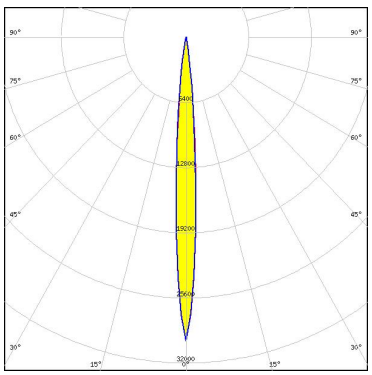
LED	LUXEON SunPlus 20 Line (120 deg)
FWHM / FWTM	8.0° / 16.0°
Efficiency	96 %
Peak intensity	30.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

LUMILEDS

LED	LUXEON SunPlus 20 Line (150 deg)
FWHM / FWTM	7.8° / 17.0°
Efficiency	93 %
Peak intensity	29.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

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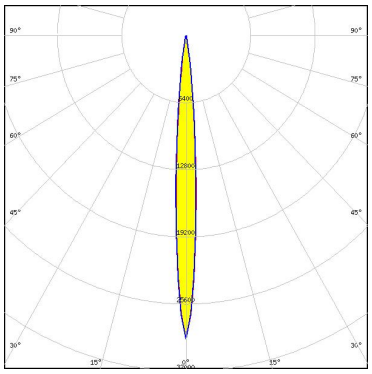
OPTICAL RESULTS (SIMULATED):

LUMILEDS

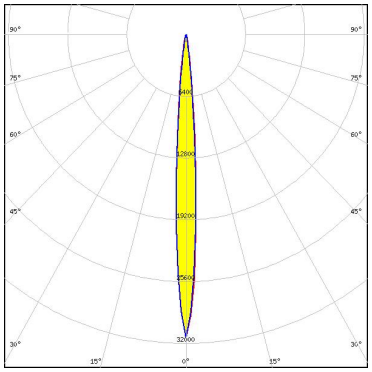
LED	LUXEON SunPlus 20 Line (150 deg)
FWHM / FWTM	8.0° / 16.0°
Efficiency	92 %
Peak intensity	28.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

LUMILEDS

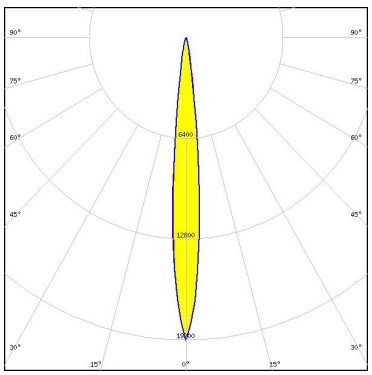
LED	LUXEON SunPlus 35 Line
FWHM / FWTM	7.8° / 17.0°
Efficiency	94 %
Peak intensity	31.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

LUMILEDS

LED	LUXEON TX
FWHM / FWTM	10.0° / 20.0°
Efficiency	96 %
Peak intensity	19.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



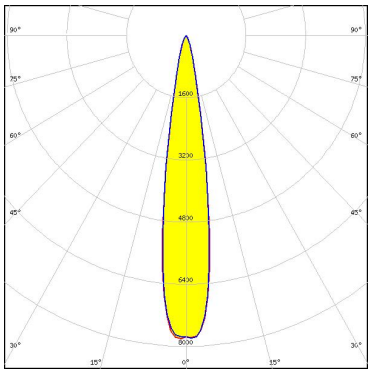
Light distribution files

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

OPTICAL RESULTS (SIMULATED):

NICHIA

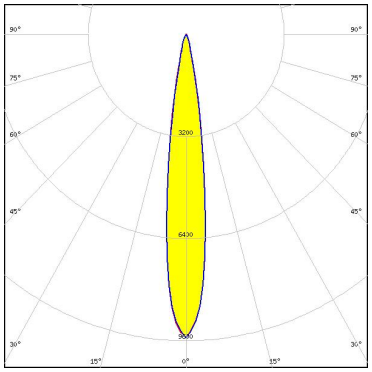
LED	NV4WB35AM
FWHM / FWTM	16.0° / 30.0°
Efficiency	96 %
Peak intensity	8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

NICHIA

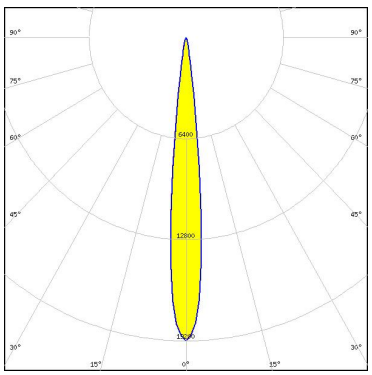
LED	NVSW519A
FWHM / FWTM	14.0° / 28.0°
Efficiency	92 %
Peak intensity	9.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

NICHIA

LED	NVSW719AC
FWHM / FWTM	12.0° / 20.0°
Efficiency	97 %
Peak intensity	19.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



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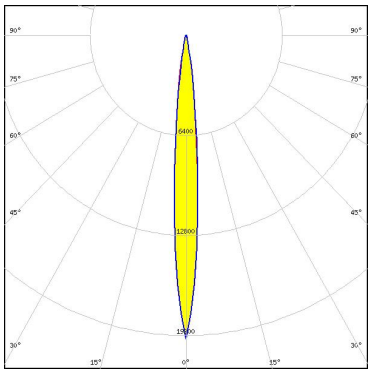
OPTICAL RESULTS (SIMULATED):

NICHIA

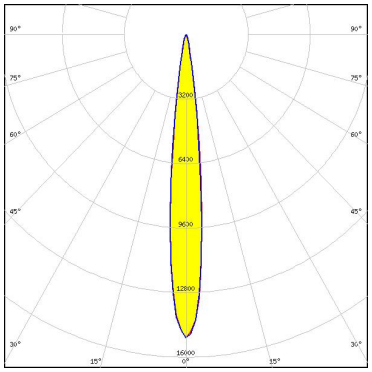
LED	NVSxE21A
FWHM / FWTM	10.0° / 20.0°
Efficiency	94 %
Peak intensity	19.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

NICHIA

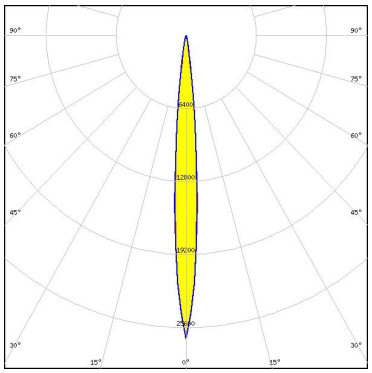
LED	NVSxx19B/NVSxx19C
FWHM / FWTM	12.0° / 22.0°
Efficiency	95 %
Peak intensity	15 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

OSRAM
Opto Semiconductors

LED	OSCONIQ C 2424
FWHM / FWTM	8.0° / 18.0°
Efficiency	96 %
Peak intensity	26.6 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

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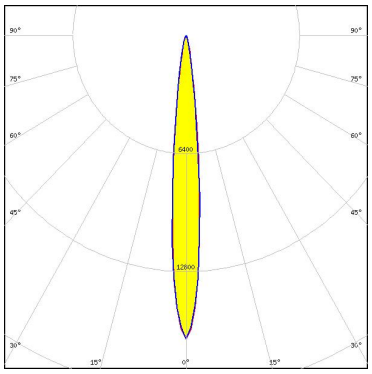
OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

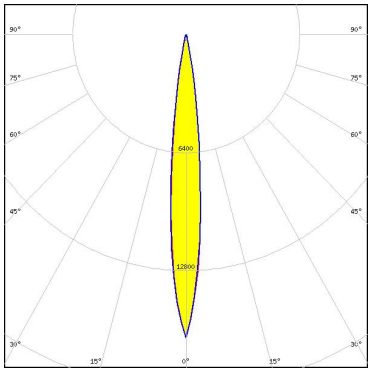
LED	OSCONIQ P 3737 Flat
FWHM / FWTM	10.0° / 22.0°
Efficiency	96 %
Peak intensity	16.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

OSRAM
Opto Semiconductors

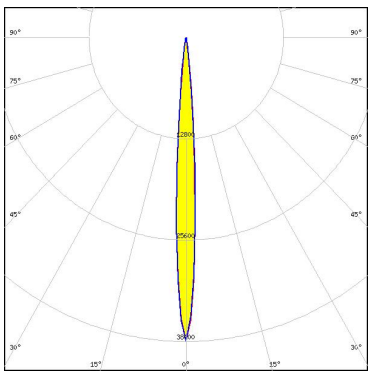
LED	OSLON Black
FWHM / FWTM	11.0° / 22.0°
Efficiency	93 %
Peak intensity	16.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

OSRAM
Opto Semiconductors

LED	OSLON Black Flat (LUW HWQP)
FWHM / FWTM	7.3° / 15.0°
Efficiency	94 %
Peak intensity	38.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

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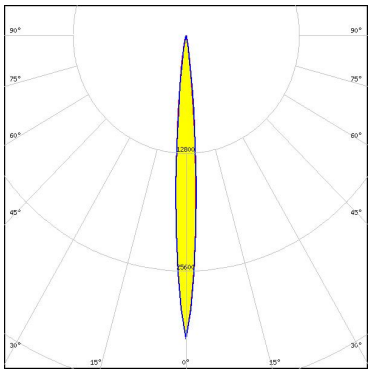
OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

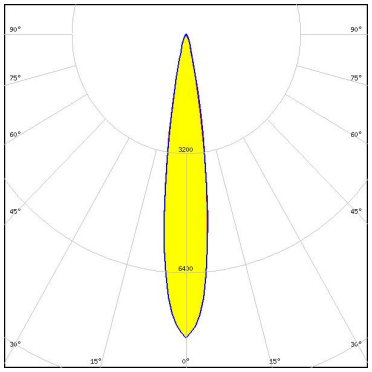
LED	OSLON SSL 150
FWHM / FWTM	8.0° / 16.0°
Efficiency	96 %
Peak intensity	33 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

SAMSUNG

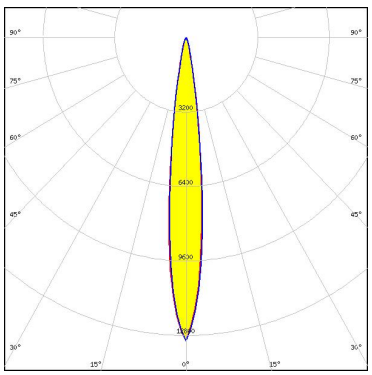
LED	LH351D
FWHM / FWTM	16.0° / 29.0°
Efficiency	94 %
Peak intensity	8.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

SEOUL SEMICONDUCTOR

LED	Z5M4
FWHM / FWTM	12.0° / 25.0°
Efficiency	96 %
Peak intensity	13 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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