LISA3-RS-PIN

~15° spot beam with location pin installation

SPECIFICATION:

Dimensions	Ø 10.0 mm
Height	6.9 mm
Fastening	glue
ROHS compliant	yes

MATERIALS:

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

ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
FP16558_LISA3-RS-PIN » Box size: 310 x 230 x 60 mm	Single lens	2000	300	100	1.3

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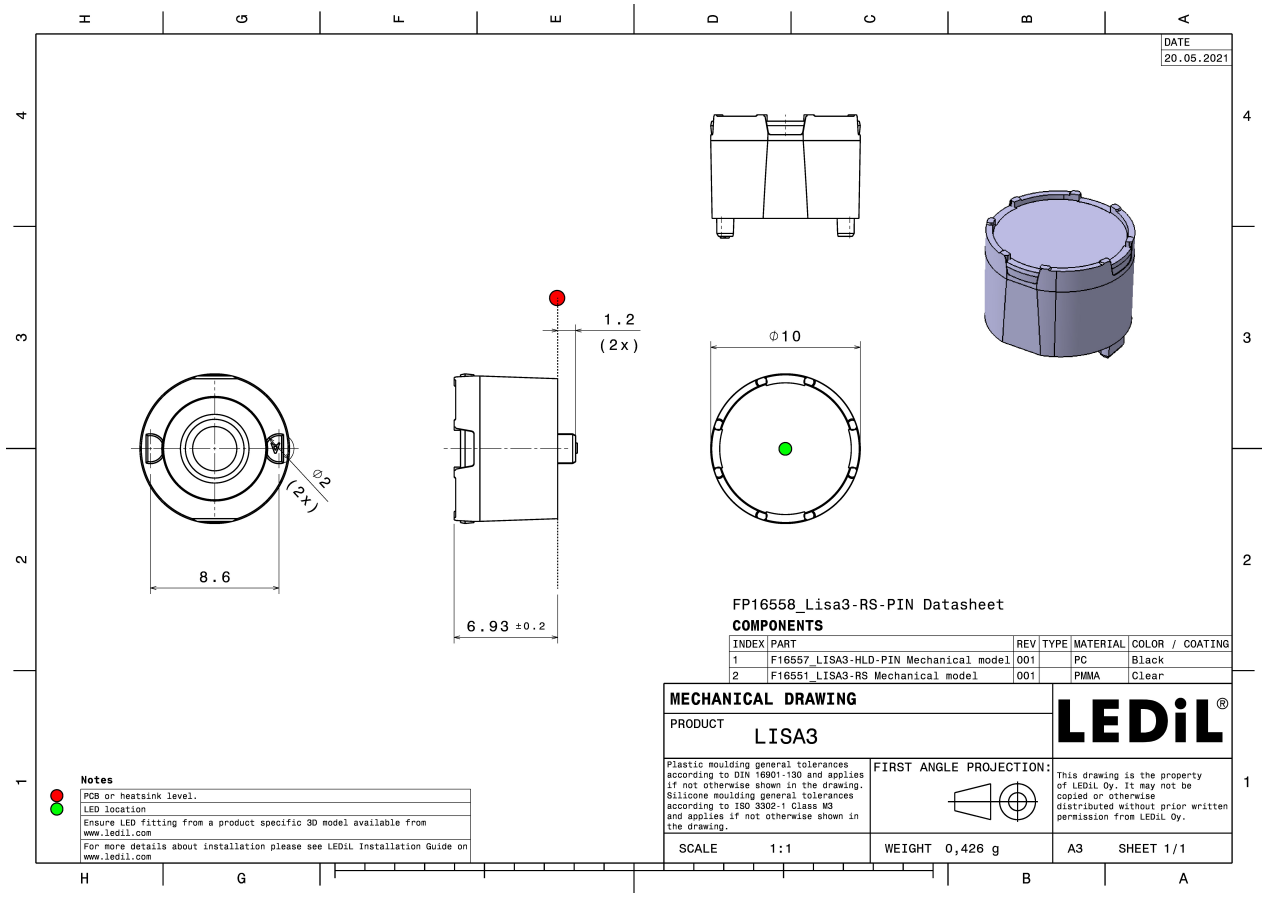

FP16558_Lisa3-RS-PIN Datasheet

COMPONENTS

INDEX	PART	REV	TYPE	MATERIAL	COLOR / COATING
1	F16557_LISA3-HLD-PIN Mechanical model	001		PC	Black
2	F16551_LISA3-RS Mechanical model	001		PMMA	Clear

MECHANICAL DRAWING

PRODUCT LISA3

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 1:1 | WEIGHT 0,426 g | A3 SHEET 1/1

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

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

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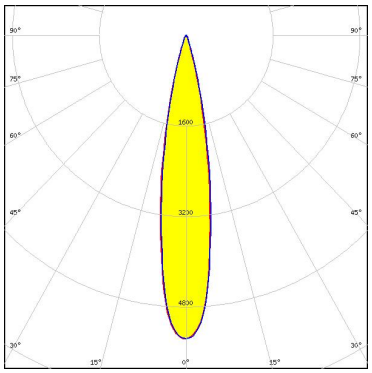
OPTICAL RESULTS (MEASURED):

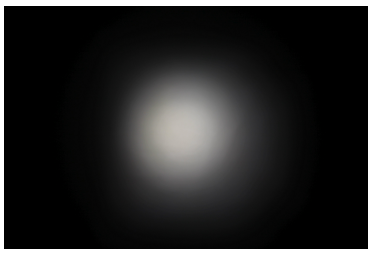
CREE LED

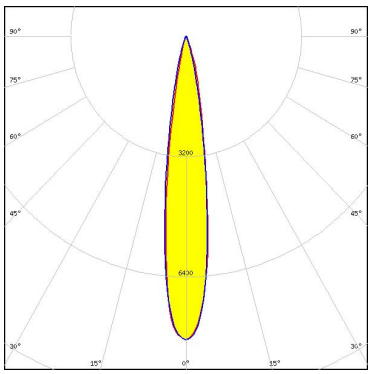
LED	XD16
FWHM / FWTM	19.0° / 34.0°
Efficiency	78 %
Peak intensity	5.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



CREE LED

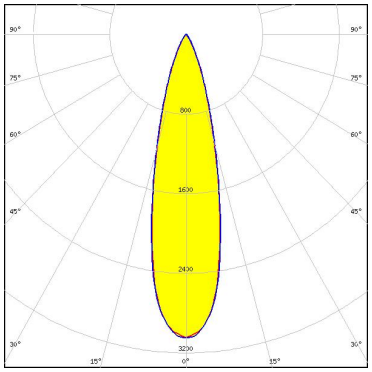
LED	XP-E2
FWHM / FWTM	16.0° / 31.0°
Efficiency	90 %
Peak intensity	8.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	





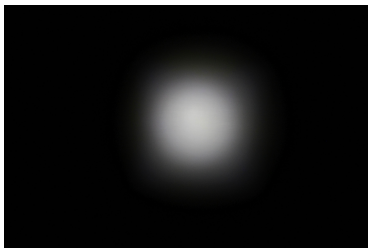
CREE LED

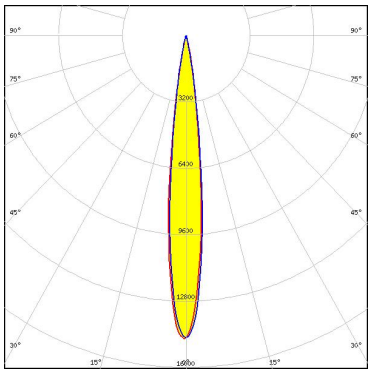
LED	XP-G3
FWHM / FWTM	26.0° / 51.0°
Efficiency	84 %
Peak intensity	3.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



LUMILEDS

LED	LUXEON CZ
FWHM / FWTM	12.0° / 23.0°
Efficiency	89 %
Peak intensity	14.6 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	





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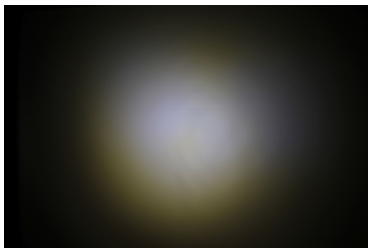
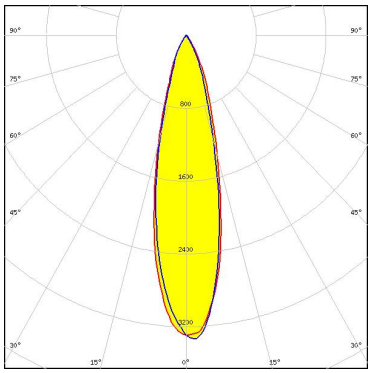
OPTICAL RESULTS (MEASURED):

NICHIA

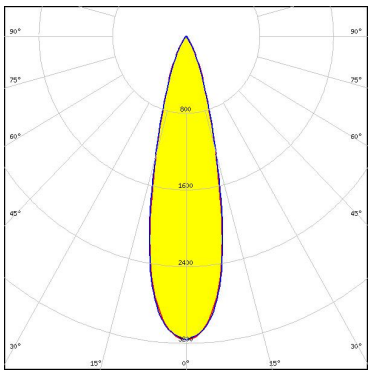
LED	NF2x757G
FWHM / FWTM	25.0° / 52.0°
Efficiency	88 %
Peak intensity	3.3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	





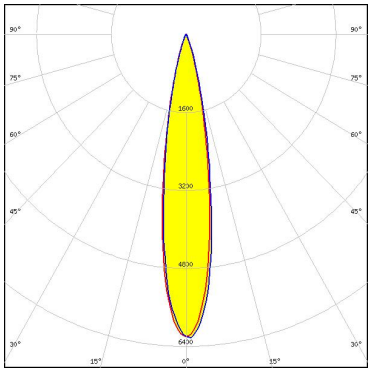
NICHIA

LED	NVSW219F
FWHM / FWTM	26.0° / 52.0°
Efficiency	90 %
Peak intensity	3.2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



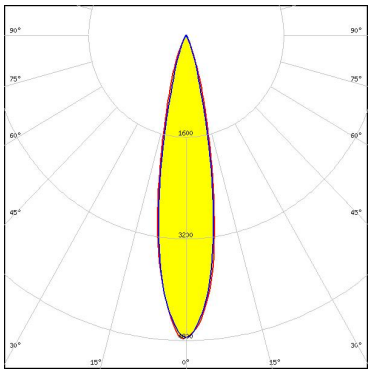
OSRAM
Opto Semiconductors

LED	OSCONIQ C 2424
FWHM / FWTM	18.0° / 35.0°
Efficiency	88 %
Peak intensity	6.3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



OSRAM
Opto Semiconductors

LED	OSLON Square CSSRM2/CSSRM3
FWHM / FWTM	21.0° / 40.0°
Efficiency	88 %
Peak intensity	4.8 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



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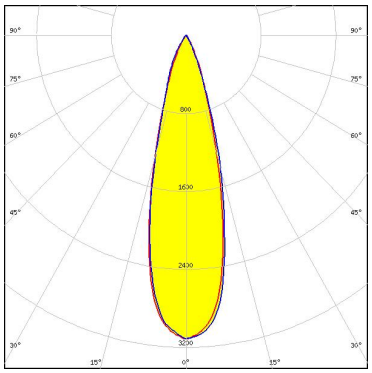
OPTICAL RESULTS (MEASURED):

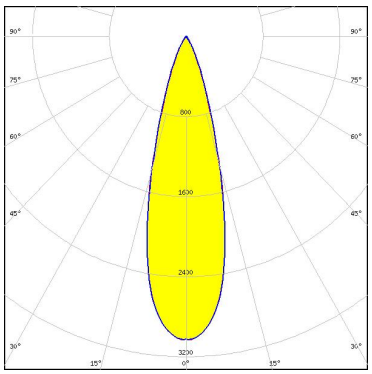
SAMSUNG

LED	LH351C
FWHM / FWTM	28.0° / 51.0°
Efficiency	90 %
Peak intensity	3.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



SEOUL SEMICONDUCTOR

LED	Z5M4
FWHM / FWTM	29.0° / 51.0°
Efficiency	89 %
Peak intensity	3.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



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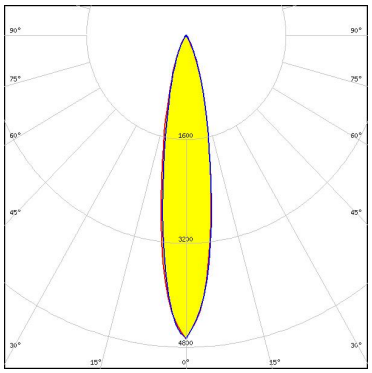
OPTICAL RESULTS (SIMULATED):

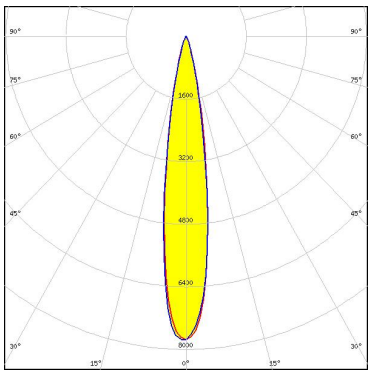
CREE LED

LED	J Series 2835
FWHM / FWTM	19.0° / 44.0°
Efficiency	88 %
Peak intensity	4.7 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



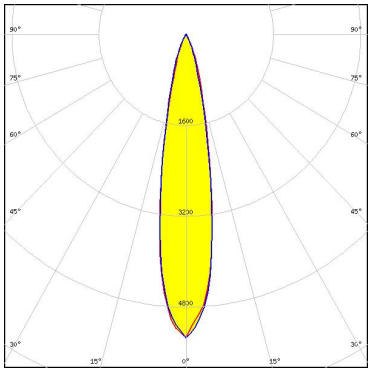
CREE LED

LED	XP-E
FWHM / FWTM	16.0° / 32.0°
Efficiency	91 %
Peak intensity	7.8 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



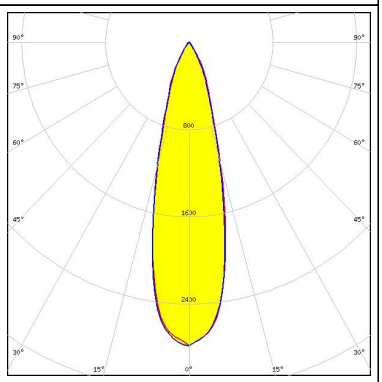
CREE LED

LED	XP-G2
FWHM / FWTM	20.0° / 40.0°
Efficiency	89 %
Peak intensity	5.3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



CREE LED

LED	XP-G2 HE
FWHM / FWTM	27.0° / 57.0°
Efficiency	86 %
Peak intensity	2.8 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



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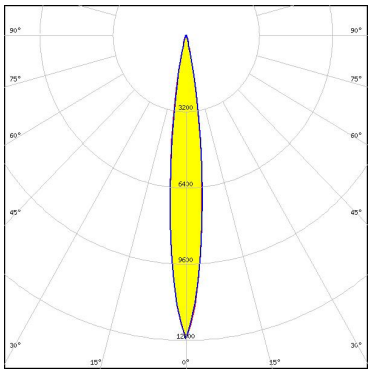
OPTICAL RESULTS (SIMULATED):

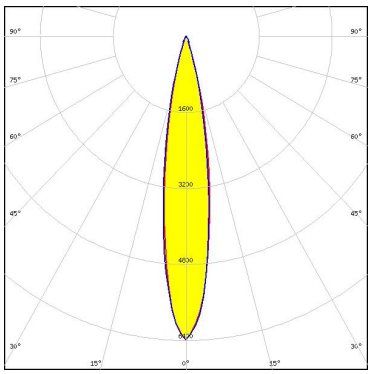
CREE LED

LED	XP-P
FWHM / FWTM	12.0° / 26.0°
Efficiency	97 %
Peak intensity	12.7 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



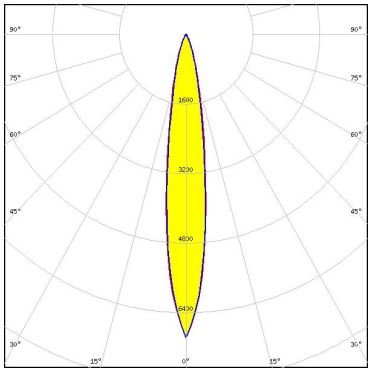
CREE LED

LED	XQ-E HI
FWHM / FWTM	18.0° / 34.0°
Efficiency	82 %
Peak intensity	6.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



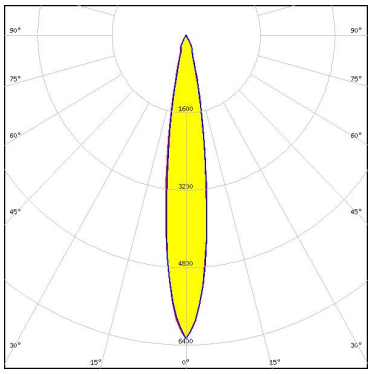
LUMILEDS

LED	LUXEON 2835 Line
FWHM / FWTM	16.0° / 36.0°
Efficiency	89 %
Peak intensity	7 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



LUMILEDS

LED	LUXEON C
FWHM / FWTM	16.0° / 32.0°
Efficiency	78 %
Peak intensity	6.3 cd/lm
LEDs/each optic	1
Light colour	Red
Required components:	



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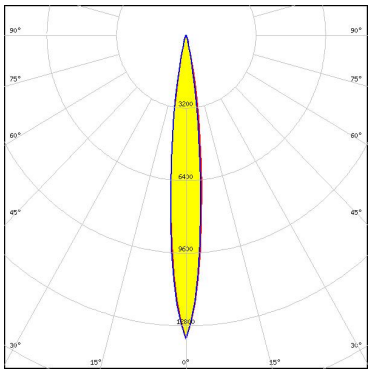
OPTICAL RESULTS (SIMULATED):

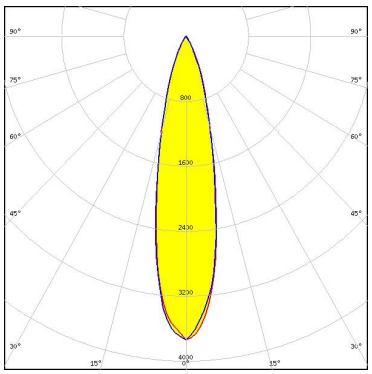
LUMILEDS

LED	LUXEON CZ
FWHM / FWTM	12.0° / 25.0°
Efficiency	90 %
Peak intensity	13.4 cd/lm
LEDs/each optic	1
Light colour	Red
Required components:	



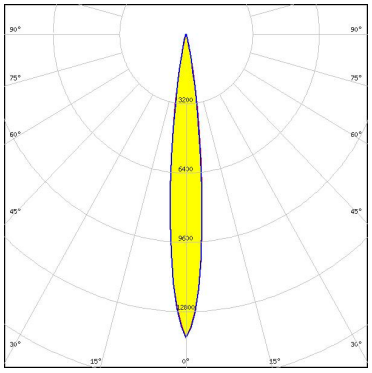
LUMILEDS

LED	LUXEON V2
FWHM / FWTM	22.0° / 51.0°
Efficiency	90 %
Peak intensity	3.8 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



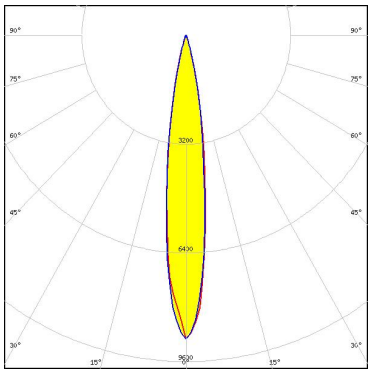
LUMILEDS

LED	LUXEON Z
FWHM / FWTM	12.0° / 23.0°
Efficiency	87 %
Peak intensity	13.2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



LUMILEDS

LED	LUXEON Z ES
FWHM / FWTM	15.0° / 30.0°
Efficiency	88 %
Peak intensity	9 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



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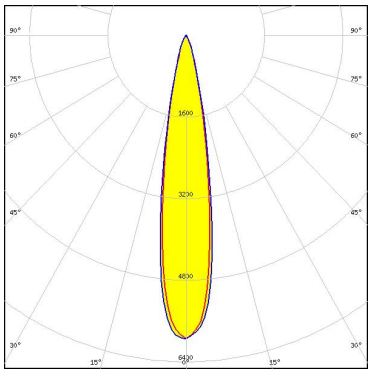
OPTICAL RESULTS (SIMULATED):

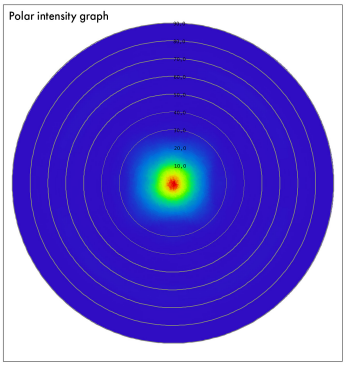
LUMINUS

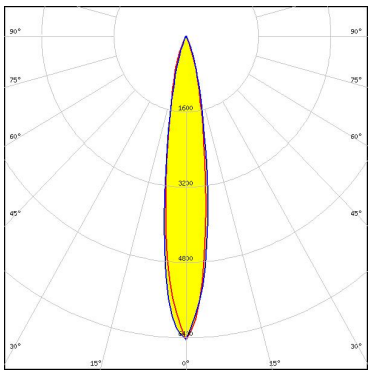
LED	SST-10-B130
FWHM / FWTM	19.0° / 36.0°
Efficiency	89 %
Peak intensity	6 cd/lm
LEDs/each optic	1
Light colour	Deep Red
Required components:	



LUMINUS

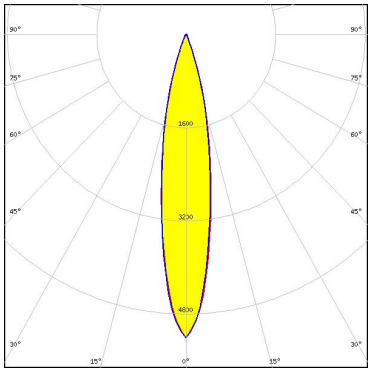
LED	SST-10-IR-B90
FWHM / FWTM	17.0° / 38.0°
Efficiency	87 %
LEDs/each optic	1
Light colour	IR
Required components:	





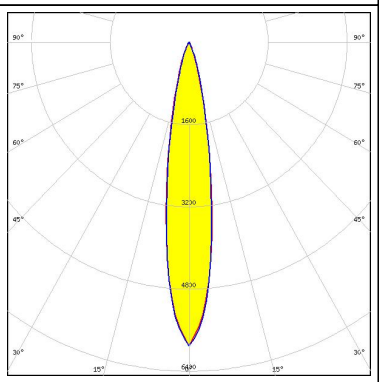
LUMINUS

LED	SST-20
FWHM / FWTM	20.0° / 40.0°
Efficiency	86 %
Peak intensity	5.2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



NICHIA

LED	NCSxx19B
FWHM / FWTM	18.0° / 37.0°
Efficiency	84 %
Peak intensity	5.9 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



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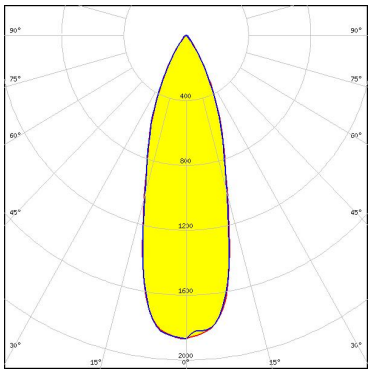
OPTICAL RESULTS (SIMULATED):

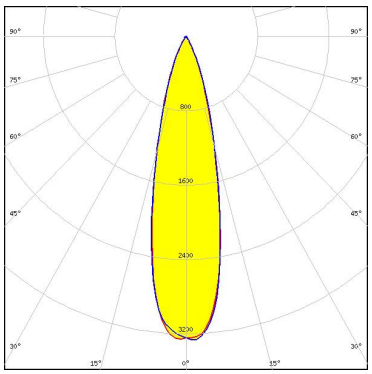
NICHIA

LED	NV4WB35AM
FWHM / FWTM	32.0° / 65.0°
Efficiency	84 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



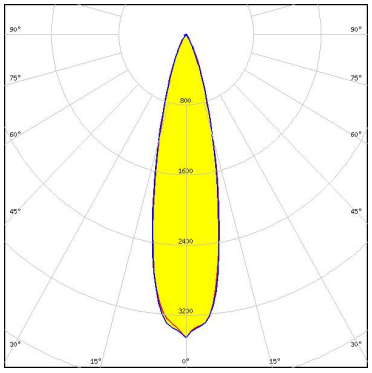
NICHIA

LED	NVSxx19B/NVSxx19C
FWHM / FWTM	26.0° / 50.0°
Efficiency	85 %
Peak intensity	3.3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



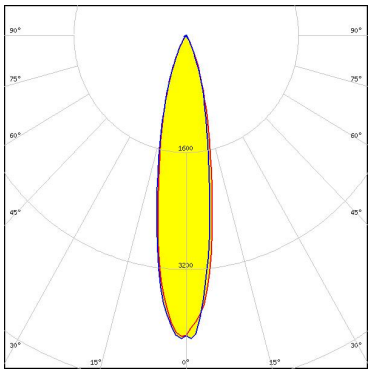
NICHIA

LED	NVSxx19B/NVSxx19C
FWHM / FWTM	25.0° / 50.0°
Efficiency	85 %
Peak intensity	3.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



OSRAM
Opto Semiconductors

LED	Duris S5 (2 chip)
FWHM / FWTM	20.0° / 44.0°
Efficiency	87 %
Peak intensity	7.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



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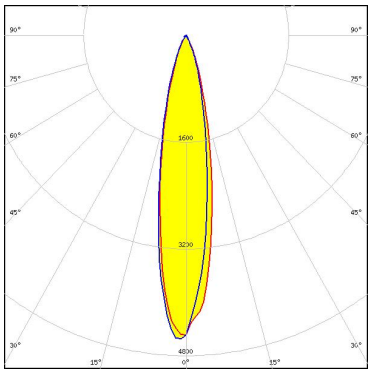
OPTICAL RESULTS (SIMULATED):

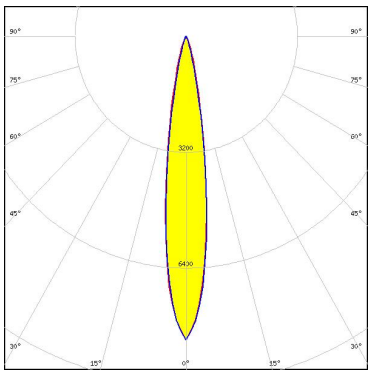
OSRAM Opto Semiconductors

LED	Duris S5 (Single chip)
FWHM / FWTM	20.0° / 43.0°
Efficiency	86 %
Peak intensity	4.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



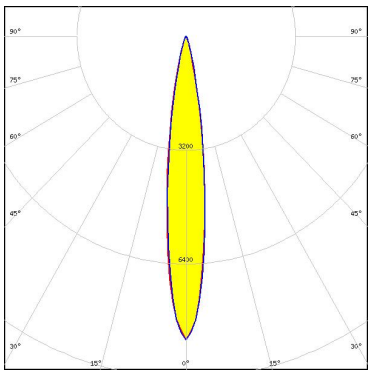
OSRAM Opto Semiconductors

LED	KW CULPM1.TG
FWHM / FWTM	16.0° / 32.0°
Efficiency	90 %
Peak intensity	8.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



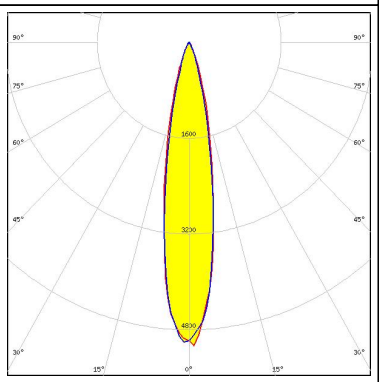
OSRAM Opto Semiconductors

LED	OSCONIQ P 3030
FWHM / FWTM	14.0° / 30.0°
Efficiency	86 %
Peak intensity	8.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



OSRAM Opto Semiconductors

LED	OSCONIQ P 3737 (2W version)
FWHM / FWTM	20.0° / 40.0°
Efficiency	88 %
Peak intensity	5.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

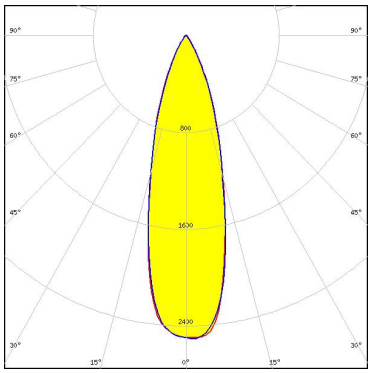


LEDiL is a registered trademark of LEDiL Oy in the European Union, USA, and certain other countries.

OPTICAL RESULTS (SIMULATED):

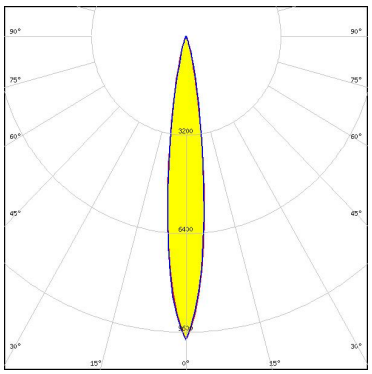
OSRAM
Opto Semiconductors

LED	OSCONIQ P 3737 (3W version)
FWHM / FWTM	29.0° / 58.0°
Efficiency	88 %
Peak intensity	2.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



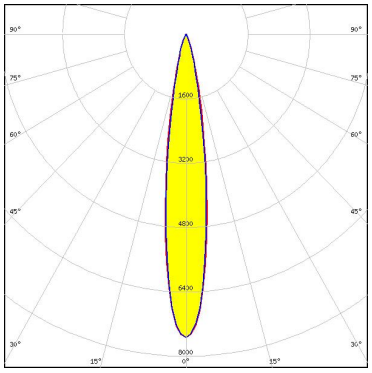
OSRAM
Opto Semiconductors

LED	OSLON Signal
FWHM / FWTM	14.0° / 29.0°
Efficiency	88 %
Peak intensity	9.9 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



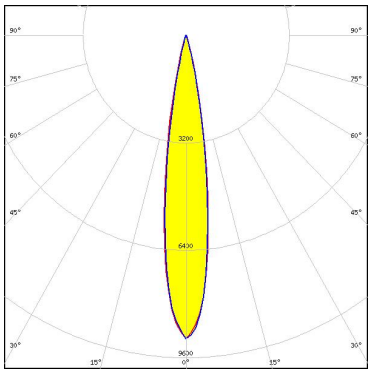
OSRAM
Opto Semiconductors

LED	OSLON Square Flat
FWHM / FWTM	16.0° / 33.0°
Efficiency	89 %
Peak intensity	7.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



OSRAM
Opto Semiconductors

LED	OSLON SSL 120
FWHM / FWTM	16.0° / 29.0°
Efficiency	90 %
Peak intensity	9 cd/lm
LEDs/each optic	1
Light colour	Hyper Red
Required components:	



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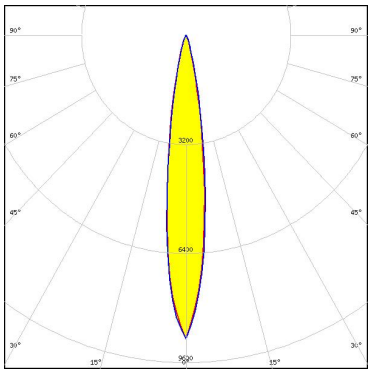
OPTICAL RESULTS (SIMULATED):

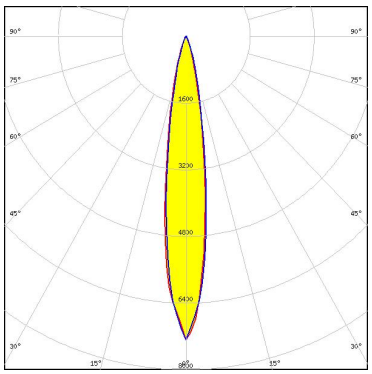
OSRAM
Opto Semiconductors

LED	OSLON SSL 150
FWHM / FWTM	14.5° / 29.0°
Efficiency	88 %
Peak intensity	8.7 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



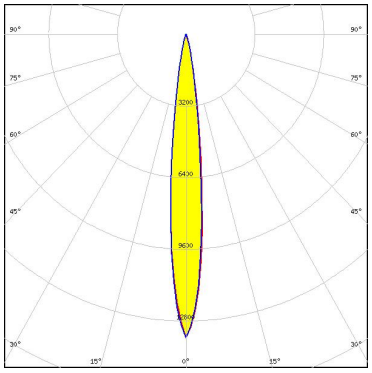
OSRAM
Opto Semiconductors

LED	OSLON SSL 80
FWHM / FWTM	15.0° / 31.0°
Efficiency	87 %
Peak intensity	7.6 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



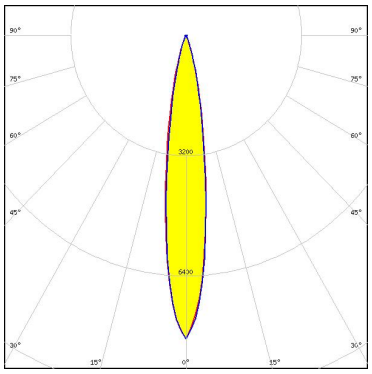
OSRAM
Opto Semiconductors

LED	Synios P2720 1 mm
FWHM / FWTM	12.0° / 24.0°
Efficiency	88 %
Peak intensity	13.6 cd/lm
LEDs/each optic	1
Light colour	Red
Required components:	



OSRAM
Opto Semiconductors

LED	SYNIOS S2222
FWHM / FWTM	16.0° / 34.0 + 32.0°
Efficiency	97 %
Peak intensity	8.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



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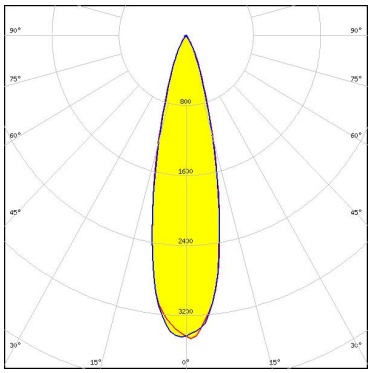
OPTICAL RESULTS (SIMULATED):

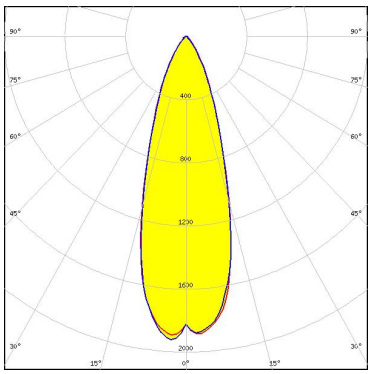
SAMSUNG

LED	LH351B
FWHM / FWTM	26.0° / 49.0°
Efficiency	88 %
Peak intensity	3.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



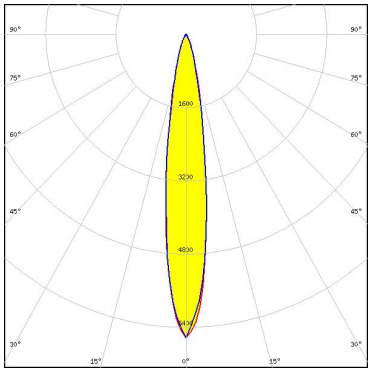
SAMSUNG

LED	LH351D
FWHM / FWTM	34.0° / 66.0°
Efficiency	85 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



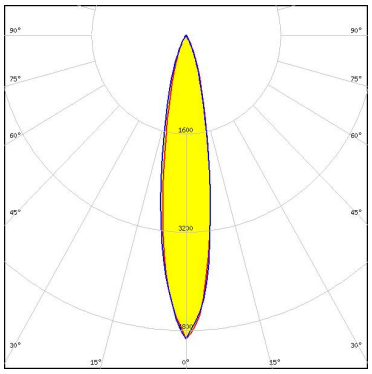
SAMSUNG

LED	LM301A
FWHM / FWTM	14.5° / 33.0°
Efficiency	87 %
Peak intensity	7.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



SAMSUNG

LED	LM302A
FWHM / FWTM	16.0° / 40.0°
Efficiency	87 %
Peak intensity	5.3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



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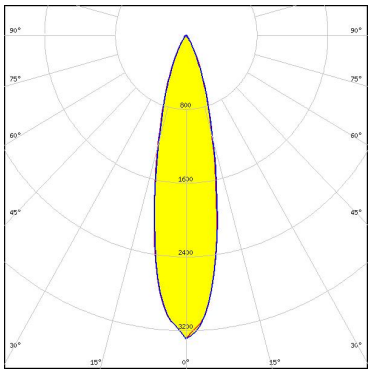
OPTICAL RESULTS (SIMULATED):

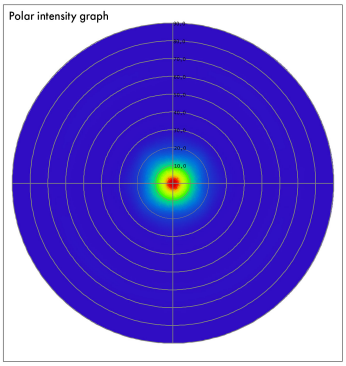
SEOUL SEMICONDUCTOR

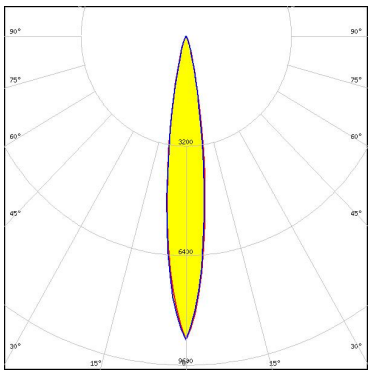
LED	Z5M3
FWHM / FWTM	24.0° / 51.0°
Efficiency	86 %
Peak intensity	3.3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



STANLEY

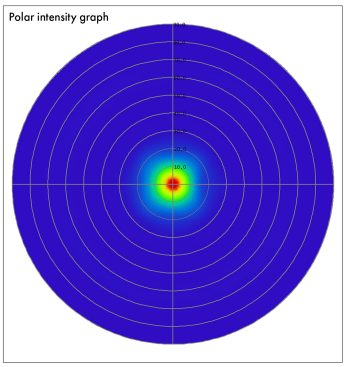
LED	MGN1108MS
FWHM / FWTM	15.0° / 30.0°
Efficiency	89 %
LEDs/each optic	1
Light colour	IR
Required components:	

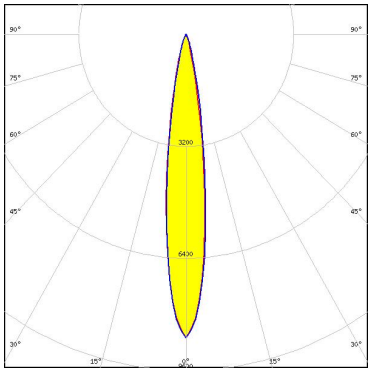




STANLEY

LED	MJN1108MS
FWHM / FWTM	15.0° / 31.0°
Efficiency	90 %
LEDs/each optic	1
Light colour	IR
Required components:	





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GENERAL INFORMATION:

NOTE: The typical beam angle will be changed by different color, chip size and chip position tolerance. The typical total beam angle is the full angle measured where the luminous intensity is half of the peak value.

MATERIALS:

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