HEIDI-RS

~8° spot beam

SPECIFICATION:

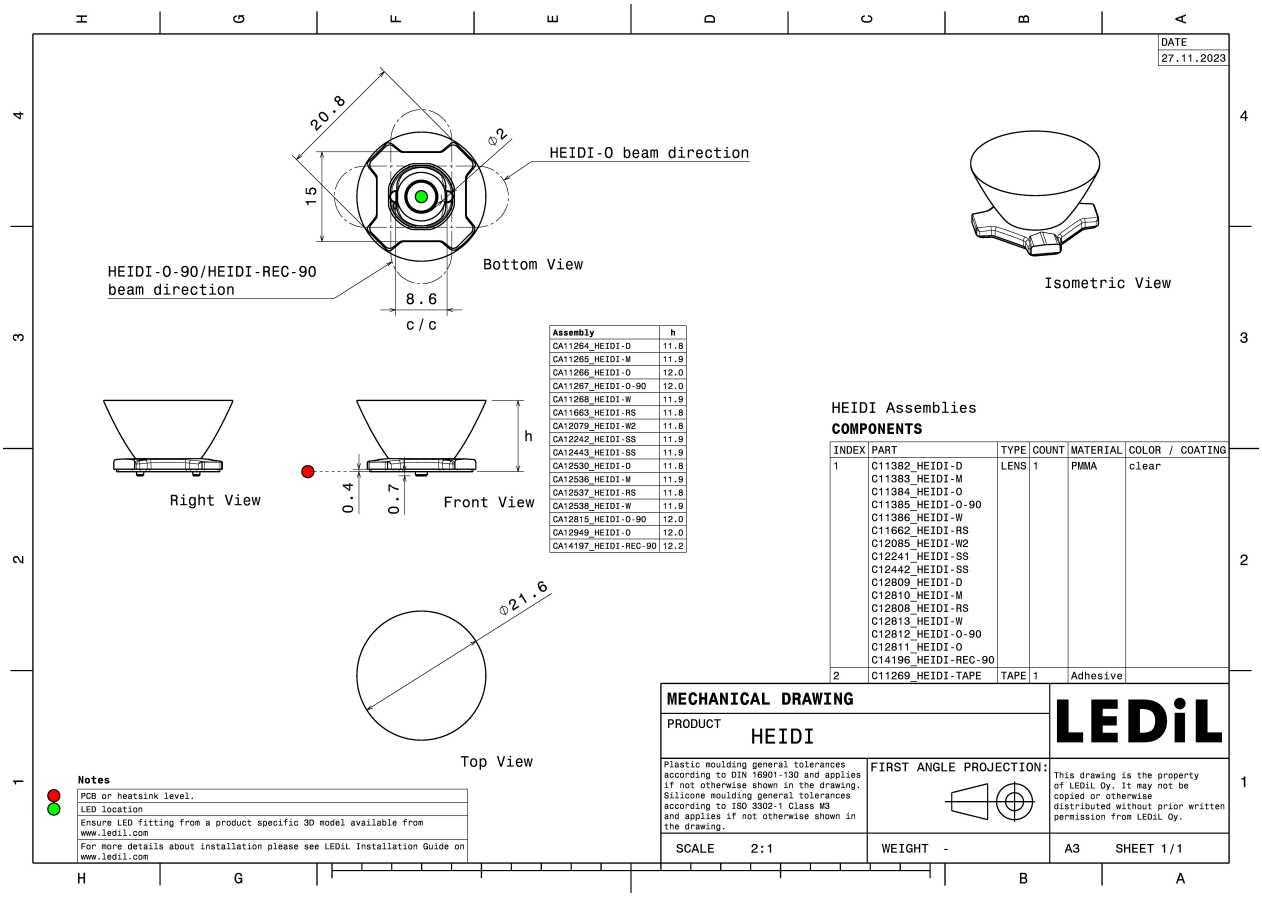
Dimensions	Ø 21.6 mm
Height	11.7 mm
Fastening	tape, pin
ROHS compliant	yes

MATERIALS:

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

ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CA11663_HEIDI-RS » Box size: 480 x 280 x 300 mm	Single lens	3264	204	204	10.4



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	

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

OPTICAL RESULTS (MEASURED):

CREE LEDs

LED	XB-D
FWHM / FWTM	8.0°
Efficiency	91 %
Peak intensity	19.7 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

CREE LEDs

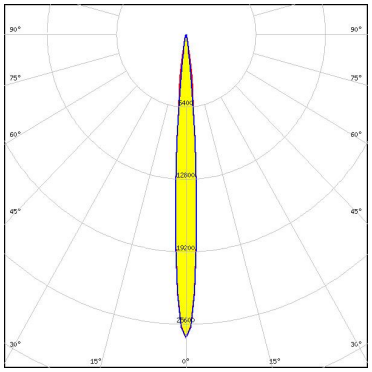
LED	XB-H
FWHM / FWTM	10.0° / 19.0°
Efficiency	90 %
Peak intensity	18.3 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

CREE LEDs

LED	XP-E
FWHM / FWTM	8.0° / 18.0°
Efficiency	93 %
Peak intensity	26.8 cd/lm
LEDs/each optic	1
Light colour	White

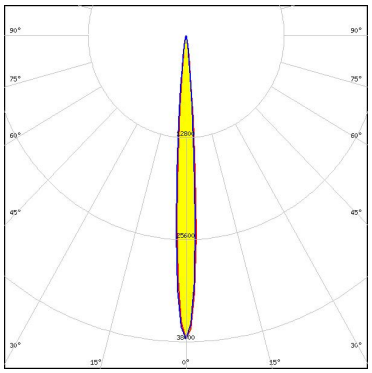
Required components:



CREE LEDs

LED	XP-E2
FWHM / FWTM	8.0° / 14.0°
Efficiency	90 %
Peak intensity	38 cd/lm
LEDs/each optic	1
Light colour	White

Required components:



OPTICAL RESULTS (MEASURED):

CREE LEDs

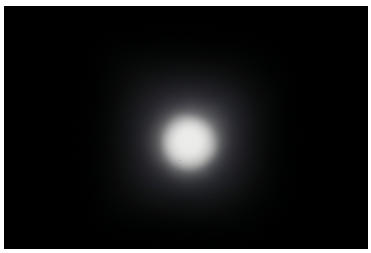
LED	XP-G
FWHM / FWTM	9.0° / 20.0°
Efficiency	93 %
Peak intensity	16.6 cd/lm
LEDs/each optic	1
Light colour	White

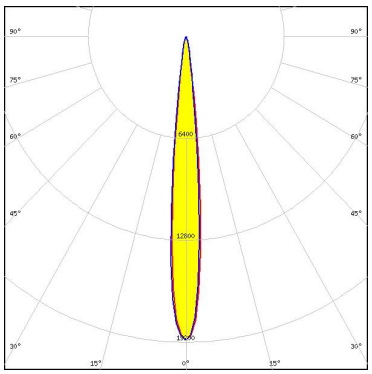
Required components:

CREE LEDs

LED	XP-G2
FWHM / FWTM	11.0° / 20.0°
Efficiency	91 %
Peak intensity	19.1 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

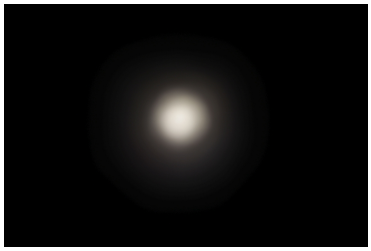


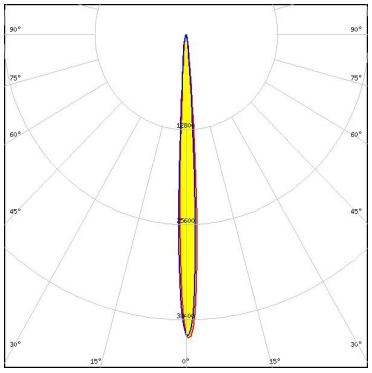


CREE LEDs

LED	XQ-E HD
FWHM / FWTM	6.0° / 12.0°
Efficiency	94 %
Peak intensity	42.1 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

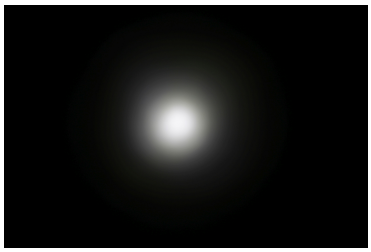


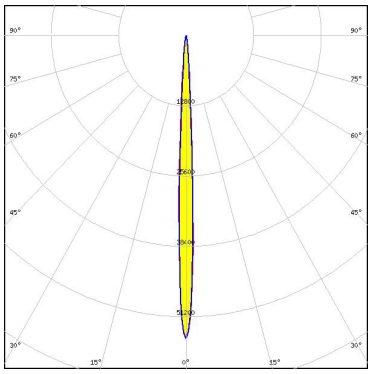


CREE LEDs

LED	XQ-E HI
FWHM / FWTM	5.0° / 11.0°
Efficiency	94 %
Peak intensity	55.2 cd/lm
LEDs/each optic	1
Light colour	White

Required components:



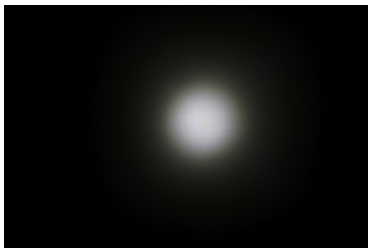


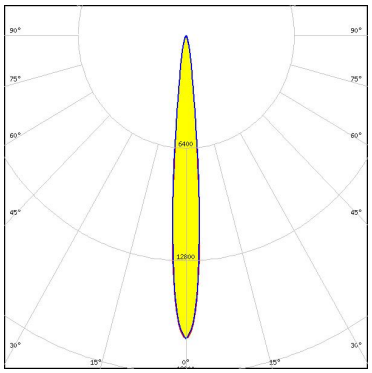
OPTICAL RESULTS (MEASURED):

CREE LEDs

LED	XT-E
FWHM / FWTM	10.0° / 21.0°
Efficiency	97 %
Peak intensity	17.2 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

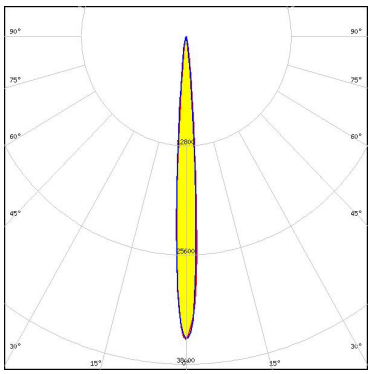




LUMILEDS

LED	LUXEON C
FWHM / FWTM	7.0° / 14.0°
Efficiency	92 %
Peak intensity	35.6 cd/lm
LEDs/each optic	1
Light colour	White

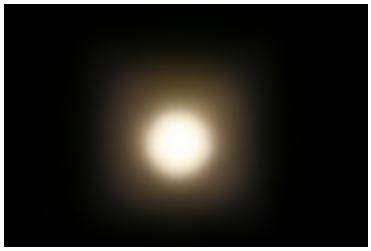
Required components:

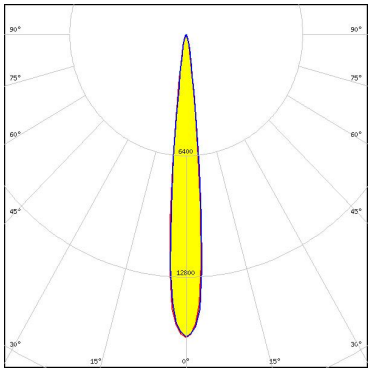


LUMILEDS

LED	LUXEON T
FWHM / FWTM	11.0° / 20.0°
Efficiency	92 %
Peak intensity	16.3 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

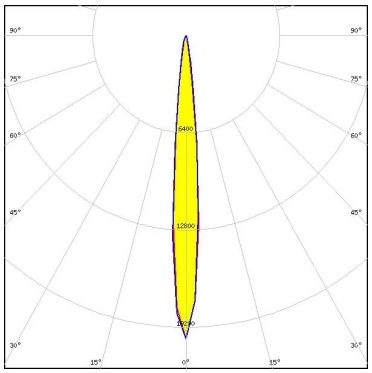




LUMILEDS

LED	LUXEON TX
FWHM / FWTM	10.0° / 20.0°
Efficiency	90 %
Peak intensity	19.5 cd/lm
LEDs/each optic	1
Light colour	White

Required components:



OPTICAL RESULTS (MEASURED):

NICHIA

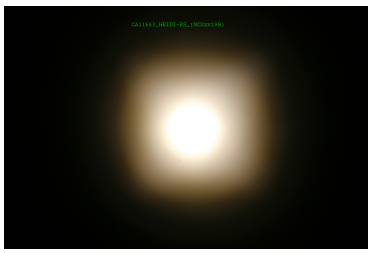
LED	NCSxx19A
FWHM / FWTM	8.0° / 18.0°
Efficiency	89 %
Peak intensity	19 cd/lm
LEDs/each optic	1
Light colour	White

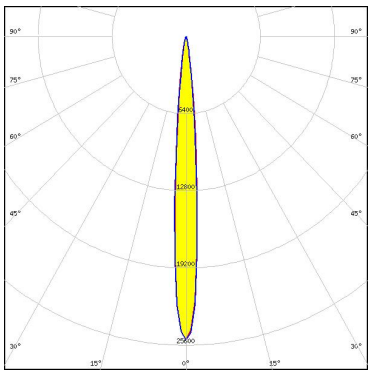
Required components:

NICHIA

LED	NCSxx19B
FWHM / FWTM	9.0° / 18.0°
Efficiency	90 %
Peak intensity	25.2 cd/lm
LEDs/each optic	1
Light colour	White

Required components:





NICHIA

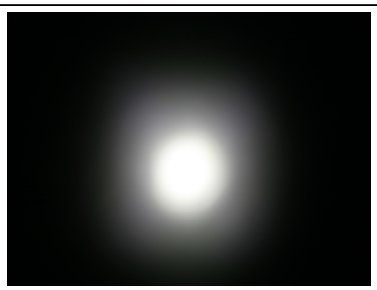
LED	NVSxx19A
FWHM / FWTM	10.0° / 23.0°
Efficiency	89 %
Peak intensity	13.9 cd/lm
LEDs/each optic	1
Light colour	White

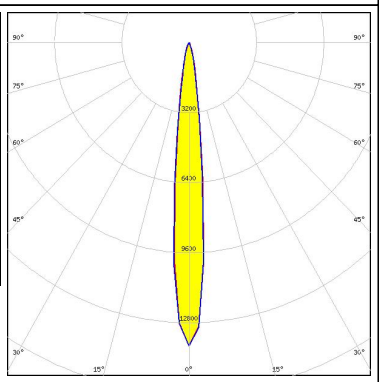
Required components:

NICHIA

LED	NVSxx19B/NVSxx19C
FWHM / FWTM	12.0° / 26.0°
Efficiency	92 %
Peak intensity	13.9 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

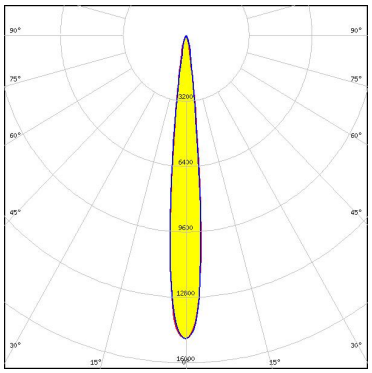




OPTICAL RESULTS (MEASURED):

NICHIA

LED	NVSxx19B/NVSxx19C
FWHM / FWTM	12.0° / 21.0°
Efficiency	96 %
Peak intensity	14.8 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



OSRAM
Opto Semiconductors

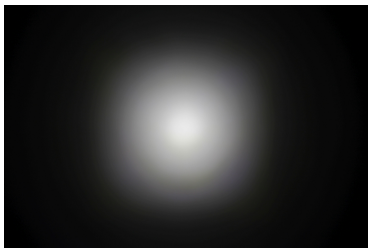
LED	OSLON Square CSSRM2/CSSRM3
FWHM / FWTM	10.0° / 20.0°
Efficiency	89 %
Peak intensity	20.8 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

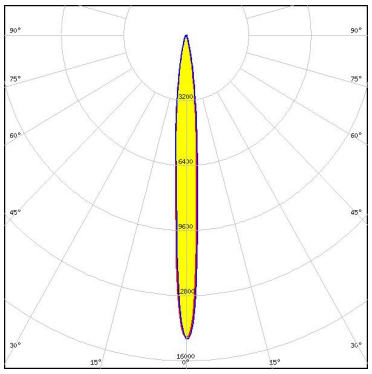
OSRAM
Opto Semiconductors

LED	OSLON SSL 150
FWHM / FWTM	7.0° / 16.0°
Efficiency	93 %
Peak intensity	24.7 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

SAMSUNG

LED	LH181A
FWHM / FWTM	8.0° / 24.0°
Efficiency	94 %
Peak intensity	14.9 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



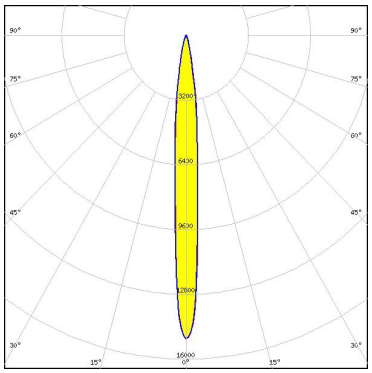


OPTICAL RESULTS (MEASURED):

SAMSUNG

LED	LH181B
FWHM / FWTM	9.0° / 24.0°
Efficiency	94 %
Peak intensity	15 cd/lm
LEDs/each optic	1
Light colour	White

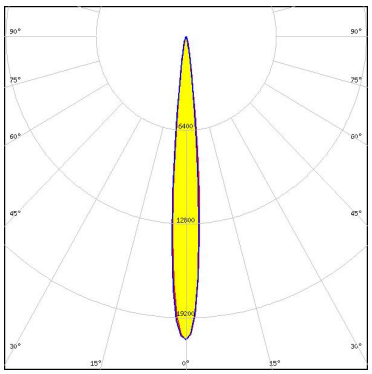
Required components:



SAMSUNG

LED	LH351Z
FWHM / FWTM	11.0° / 19.0°
Efficiency	89 %
Peak intensity	20.7 cd/lm
LEDs/each optic	1
Light colour	White

Required components:



SEOUL SEMICONDUCTOR

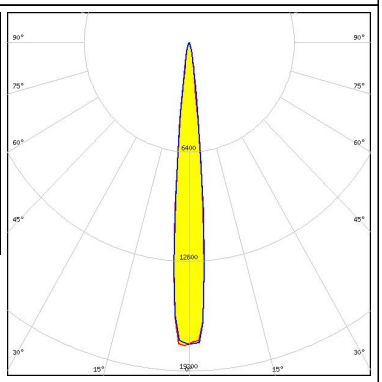
LED	Z5
FWHM / FWTM	7.0° / 16.0°
Efficiency	93 %
Peak intensity	32.7 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

SEOUL SEMICONDUCTOR

LED	Z5M1/Z5M2
FWHM / FWTM	11.0° / 19.0°
Efficiency	94 %
Peak intensity	17.8 cd/lm
LEDs/each optic	1
Light colour	White

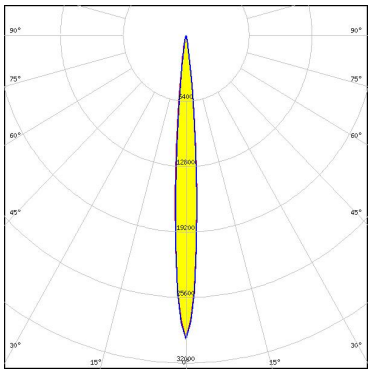
Required components:



OPTICAL RESULTS (SIMULATED):

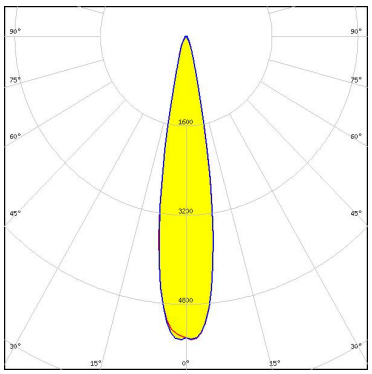
CREE LEDs

LED	XE-G
FWHM / FWTM	8.0° / 16.0°
Efficiency	95 %
Peak intensity	29.7 cd/lm
LEDs/each optic	1
Light colour	Red
Required components:	



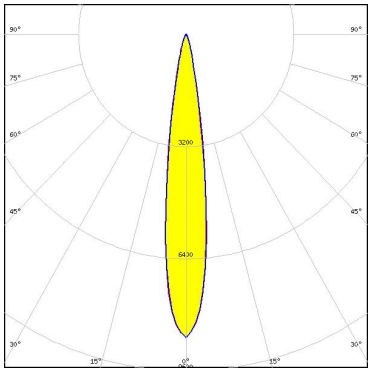
CREE LEDs

LED	XHP35.2 HD
FWHM / FWTM	20.0° / 34.0°
Efficiency	91 %
Peak intensity	5.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



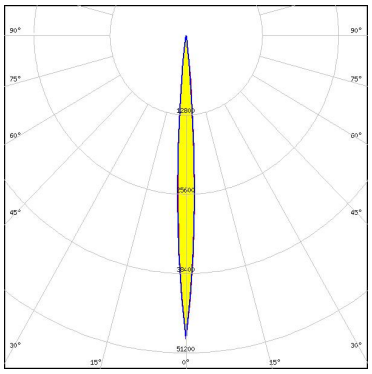
CREE LEDs

LED	XHP35.2 HI
FWHM / FWTM	16.0° / 29.0°
Efficiency	94 %
Peak intensity	8.7 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



LUMILEDS

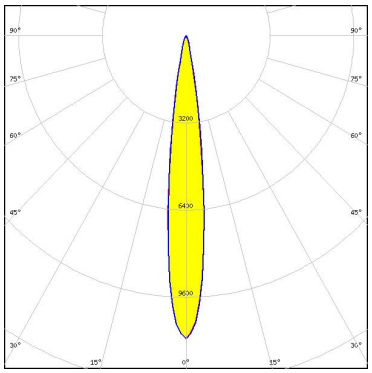
LED	LUXEON CZ
FWHM / FWTM	6.0° / 14.0°
Efficiency	96 %
Peak intensity	48.9 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



OPTICAL RESULTS (SIMULATED):

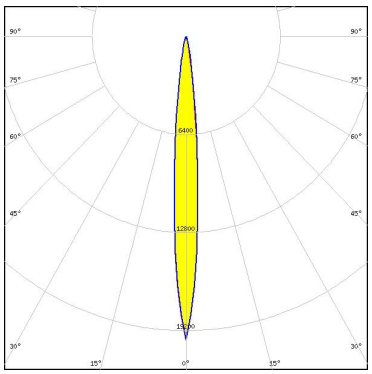
LUMILEDS

LED	LUXEON HL2X
FWHM / FWTM	14.0° / 26.0°
Efficiency	94 %
Peak intensity	11.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



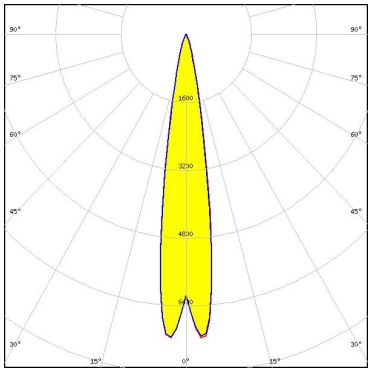
LUMILEDS

LED	LUXEON HL2Z
FWHM / FWTM	10.0° / 20.0°
Efficiency	95 %
Peak intensity	19.8 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



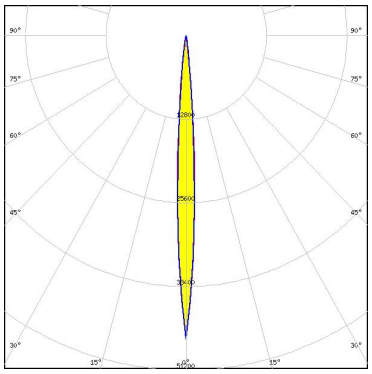
LUMILEDS

LED	LUXEON MZ
FWHM / FWTM	18.0° / 31.0°
Efficiency	95 %
Peak intensity	7.2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



LUMILEDS

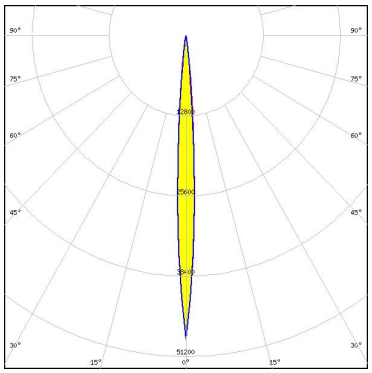
LED	LUXEON Rubix
FWHM / FWTM	6.0° / 14.0°
Efficiency	96 %
Peak intensity	46.4 cd/lm
LEDs/each optic	1
Light colour	Green
Required components:	



OPTICAL RESULTS (SIMULATED):

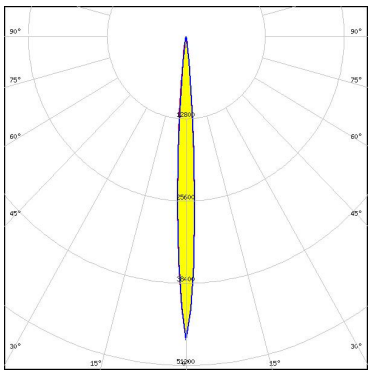
LUMILEDS

LED	LUXEON Rubix
FWHM / FWTM	6.0° / 14.0°
Efficiency	96 %
Peak intensity	48.4 cd/lm
LEDs/each optic	1
Light colour	Red
Required components:	



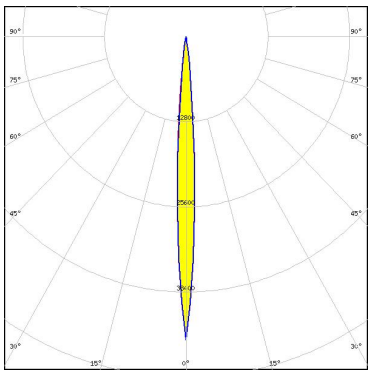
LUMILEDS

LED	LUXEON Rubix
FWHM / FWTM	6.0° / 14.0°
Efficiency	96 %
Peak intensity	47.2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



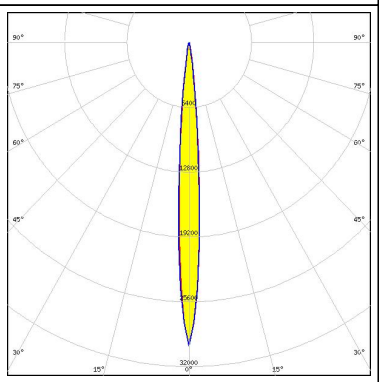
LUMILEDS

LED	LUXEON Rubix
FWHM / FWTM	6.0° / 14.0°
Efficiency	96 %
Peak intensity	45.6 cd/lm
LEDs/each optic	1
Light colour	Blue
Required components:	



LUMILEDS

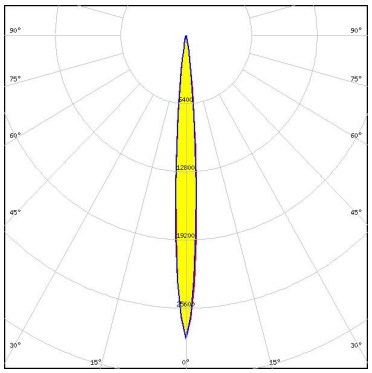
LED	LUXEON SunPlus 20 Line (120 deg)
FWHM / FWTM	8.0° / 16.0°
Efficiency	96 %
Peak intensity	30 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



OPTICAL RESULTS (SIMULATED):

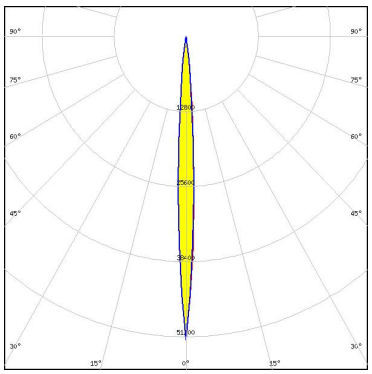
LUMILEDS

LED	LUXEON SunPlus 20 Line (150 deg)
FWHM / FWTM	8.0° / 17.0°
Efficiency	91 %
Peak intensity	28.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



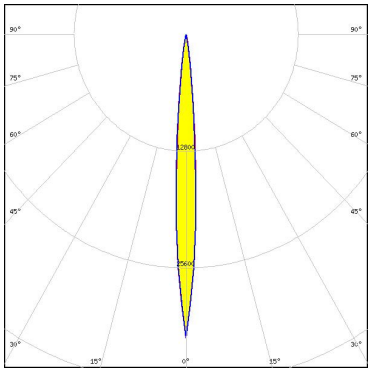
LUMILEDS

LED	LUXEON Z
FWHM / FWTM	6.0° / 14.0°
Efficiency	95 %
Peak intensity	51.7 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



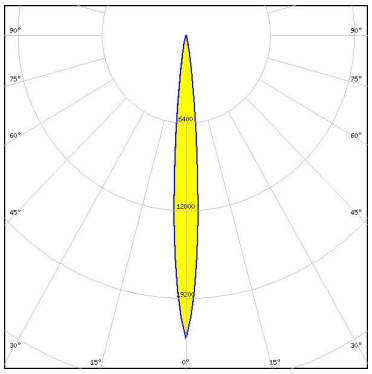
LUMILEDS

LED	LUXEON Z ES
FWHM / FWTM	7.7° / 17.0°
Efficiency	94 %
Peak intensity	33.3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



LUMINUS

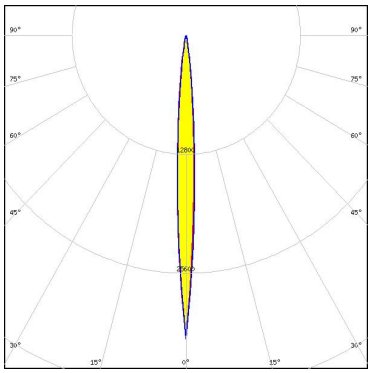
LED	SST-20
FWHM / FWTM	10.0° / 19.0°
Efficiency	94 %
Peak intensity	22.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



OPTICAL RESULTS (SIMULATED):

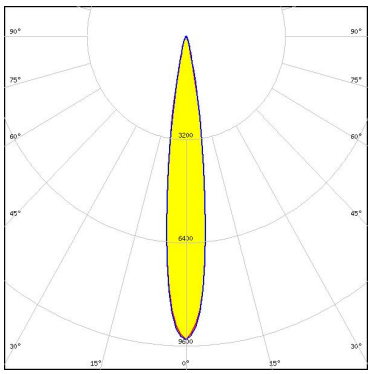
NICHIA

LED	NFSx757G
FWHM / FWTM	6.0° / 17.0°
Efficiency	96 %
Peak intensity	32.7 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



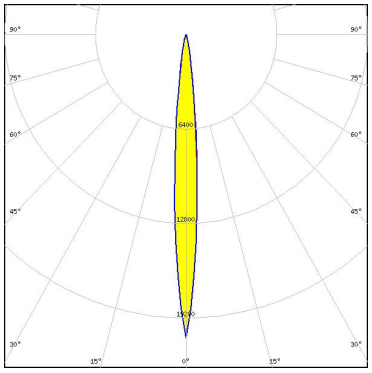
NICHIA

LED	NVSW519A
FWHM / FWTM	14.0° / 28.0°
Efficiency	92 %
Peak intensity	9.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



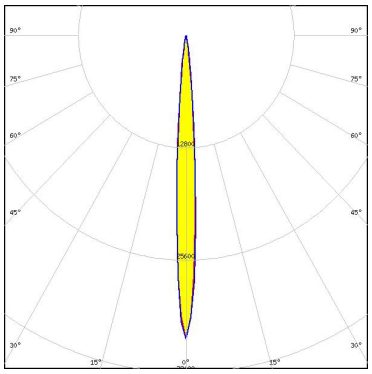
NICHIA

LED	NVSxE21A
FWHM / FWTM	8.0° / 20.0°
Efficiency	93 %
Peak intensity	20.6 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



OSRAM
Opto Semiconductors

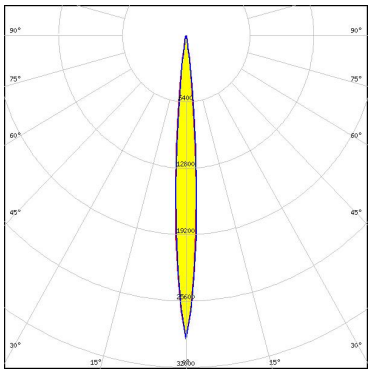
LED	OSCONIQ P 3030
FWHM / FWTM	7.1° / 16.0°
Efficiency	96 %
Peak intensity	34.6 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

LED	OSLON PURE 1010
FWHM / FWTM	8.0° / 16.0°
Efficiency	93 %
Peak intensity	29.2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

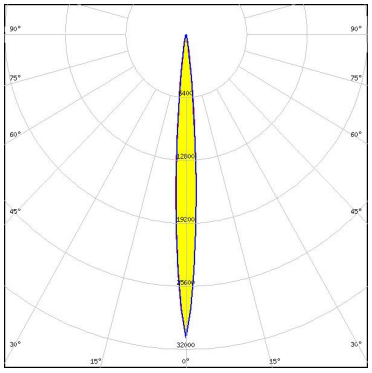


OSRAM
Opto Semiconductors

LED	OSLON Square EC
FWHM / FWTM	12.0°
Efficiency	%
Peak intensity	11.8 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

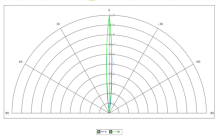
OSRAM
Opto Semiconductors

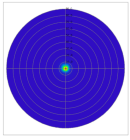
LED	OSLON Square Flat
FWHM / FWTM	8.0° / 17.0°
Efficiency	96 %
Peak intensity	30.8 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

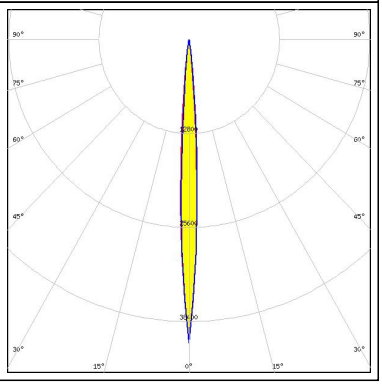


OSRAM
Opto Semiconductors

LED	SFH 4170S
FWHM / FWTM	6.0° / 14.0°
Efficiency	88 %
LEDs/each optic	1
Light colour	IR
Required components:	



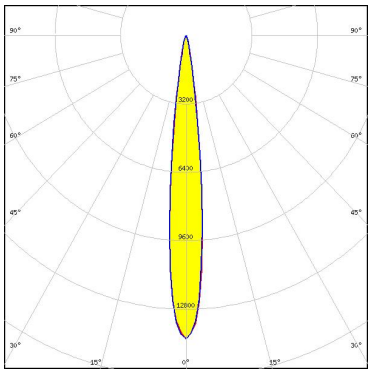




OPTICAL RESULTS (SIMULATED):

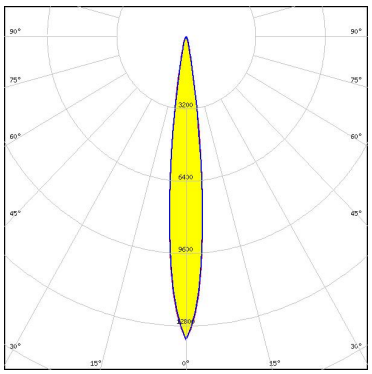
SAMSUNG

LED	LH351B
FWHM / FWTM	12.0° / 22.0°
Efficiency	94 %
Peak intensity	14.2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



SAMSUNG

LED	LH351C
FWHM / FWTM	12.0° / 24.0°
Efficiency	95 %
Peak intensity	13.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



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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