LISA3-M-PIN

~25° medium beam with location pin installation

SPECIFICATION:

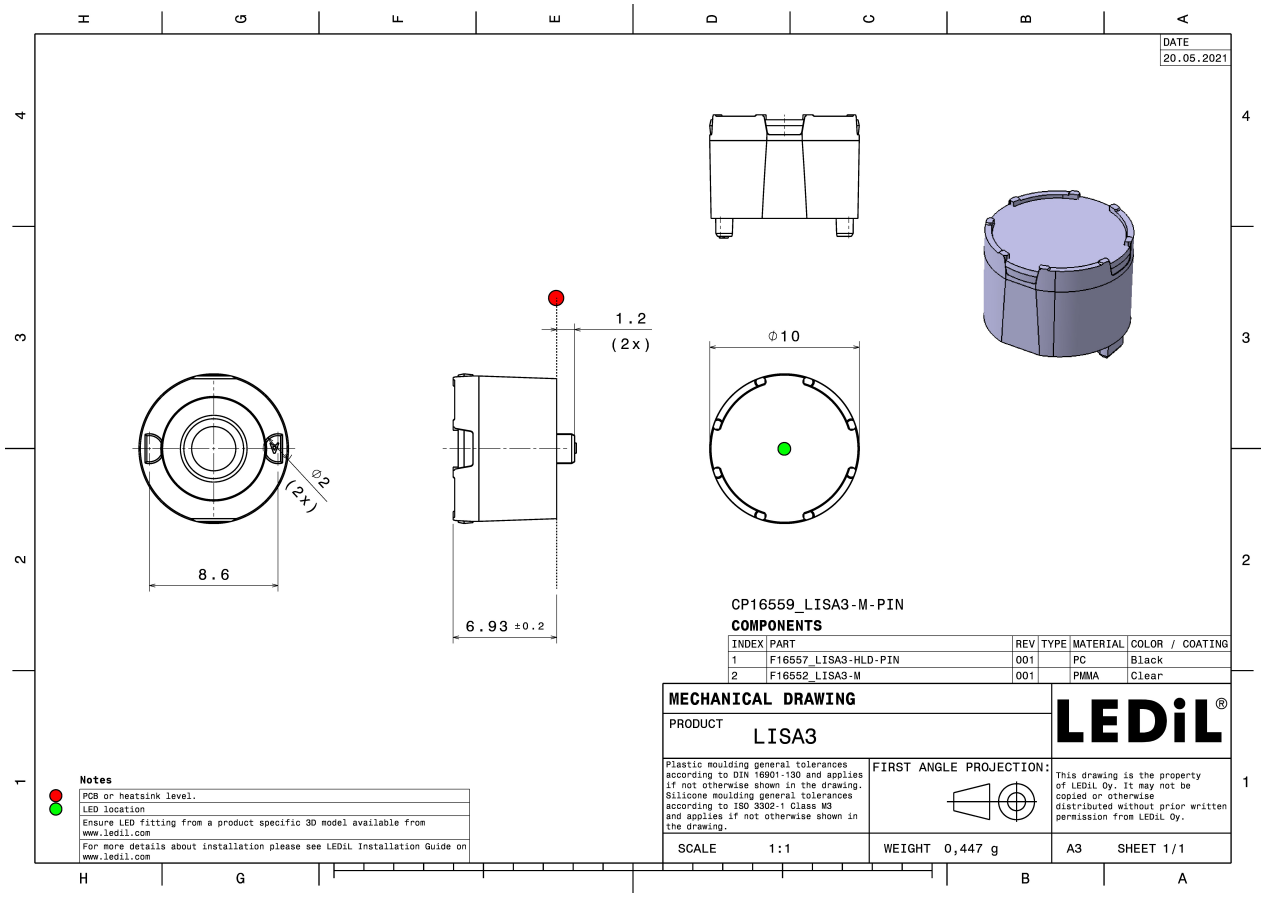
Dimensions	Ø 10.0 mm
Height	7.9 mm
Fastening	glue
ROHS compliant	yes

MATERIALS:

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

ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
FP16559_LISA3-M-PIN » Box size: 310 x 230 x 60 mm	Single lens	2000	300	100	1.3



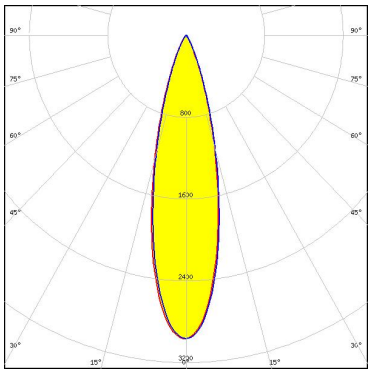
See also our general installation guide: www.ledil.com/installation_guide

OPTICAL RESULTS (MEASURED):

CREE LEDs

LED	XD16
FWHM / FWTM	26.0° / 49.0°
Efficiency	76 %
Peak intensity	3 cd/lm
LEDs/each optic	1
Light colour	White

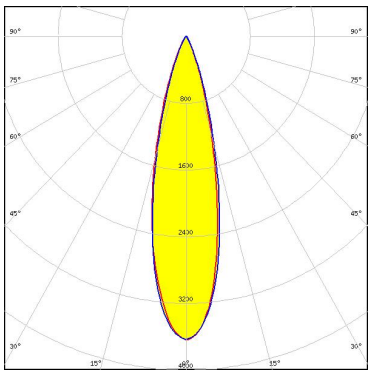
Required components:



CREE LEDs

LED	XP-E2
FWHM / FWTM	25.0° / 47.0°
Efficiency	88 %
Peak intensity	3.6 cd/lm
LEDs/each optic	1
Light colour	White

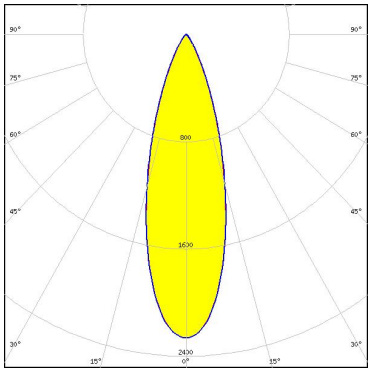
Required components:



CREE LEDs

LED	XP-G3
FWHM / FWTM	31.0° / 58.0°
Efficiency	81 %
Peak intensity	2.3 cd/lm
LEDs/each optic	1
Light colour	White

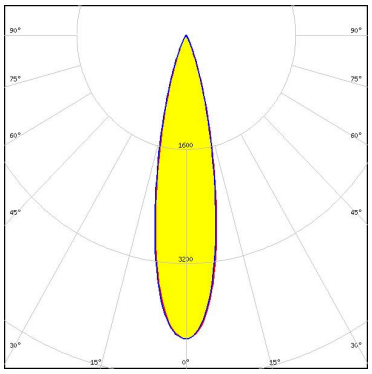
Required components:



LUMILEDS

LED	LUXEON CZ
FWHM / FWTM	23.0° / 43.0°
Efficiency	87 %
Peak intensity	4.3 cd/lm
LEDs/each optic	1
Light colour	White

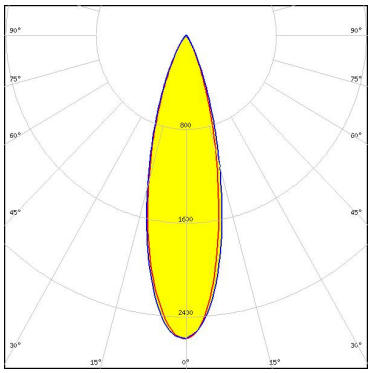
Required components:



OPTICAL RESULTS (MEASURED):

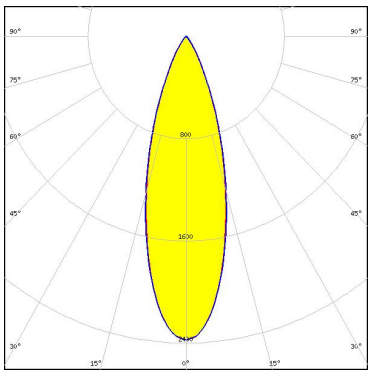
NICHIA

LED	NF2x757G
FWHM / FWTM	28.0° / 54.0°
Efficiency	79 %
Peak intensity	2.6 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



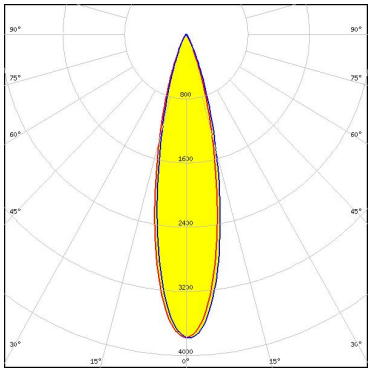
NICHIA

LED	NVSW219F
FWHM / FWTM	32.0° / 59.0°
Efficiency	88 %
Peak intensity	2.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



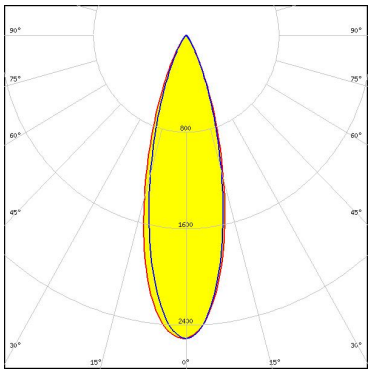
OSRAM
Opto Semiconductors

LED	OSCONIQ C 2424
FWHM / FWTM	24.0° / 46.0°
Efficiency	87 %
Peak intensity	3.8 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



OSRAM
Opto Semiconductors

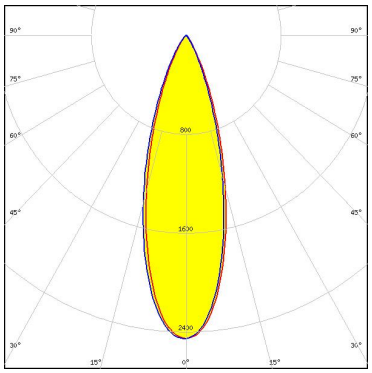
LED	OSLON Square CSSRM2/CSSRM3
FWHM / FWTM	30.0° / 55.0°
Efficiency	87 %
Peak intensity	2.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



OPTICAL RESULTS (MEASURED):

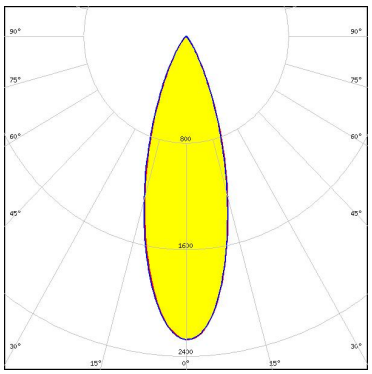
SAMSUNG

LED	LH351C
FWHM / FWTM	31.0° / 58.0°
Efficiency	89 %
Peak intensity	2.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



SEOUL SEMICONDUCTOR

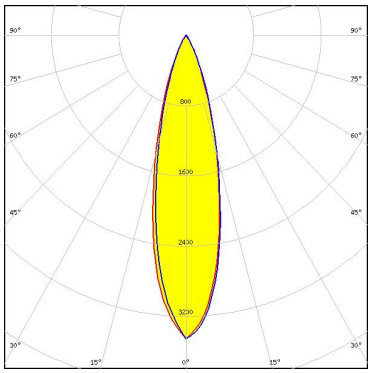
LED	Z5M4
FWHM / FWTM	33.0° / 61.0°
Efficiency	88 %
Peak intensity	2.3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



OPTICAL RESULTS (SIMULATED):

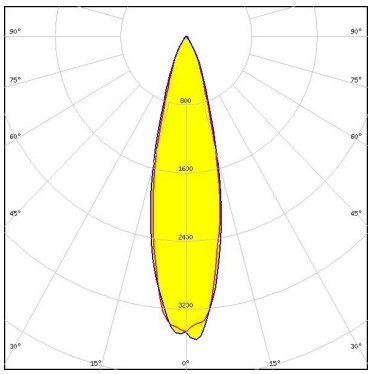
CREE LEDs

LED	J Series 2835
FWHM / FWTM	25.0° / 50.0°
Efficiency	88 %
Peak intensity	3.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



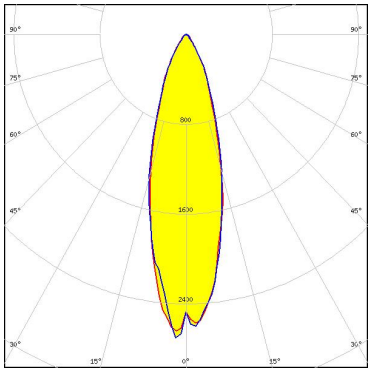
CREE LEDs

LED	XP-E
FWHM / FWTM	28.0° / 45.0°
Efficiency	90 %
Peak intensity	3.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



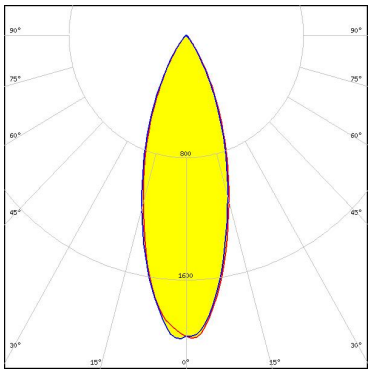
CREE LEDs

LED	XP-G
FWHM / FWTM	30.0° / 50.0°
Efficiency	88 %
Peak intensity	2.7 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



CREE LEDs

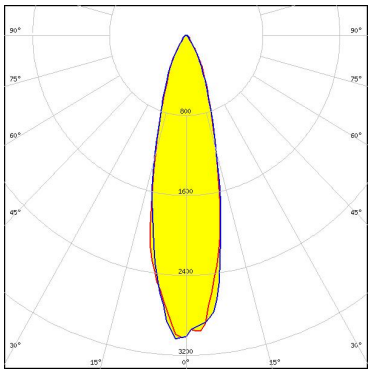
LED	XP-G2 HE
FWHM / FWTM	34.0° / 66.0°
Efficiency	86 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



OPTICAL RESULTS (SIMULATED):

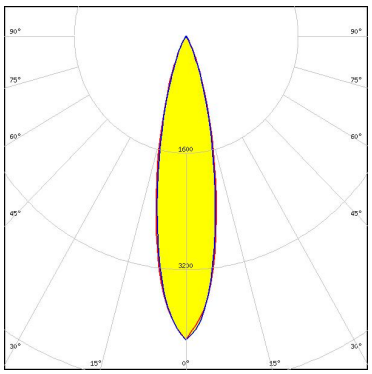
CREE LEDs

LED	XT-E
FWHM / FWTM	24.0° / 46.0°
Efficiency	82 %
Peak intensity	3.6 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



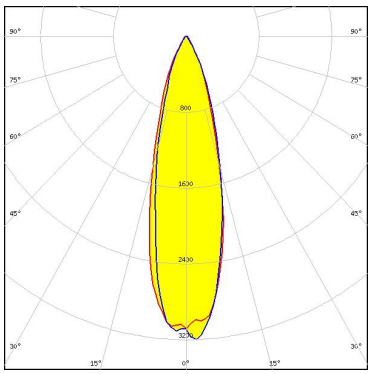
LUMILEDS

LED	LUXEON 2835 Line
FWHM / FWTM	23.0° / 46.0°
Efficiency	89 %
Peak intensity	4.2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



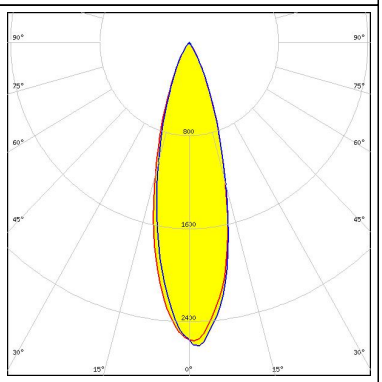
LUMILEDS

LED	LUXEON 3030 2D (Round LES)
FWHM / FWTM	25.0° / 45.0°
Efficiency	85 %
Peak intensity	4.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



LUMILEDS

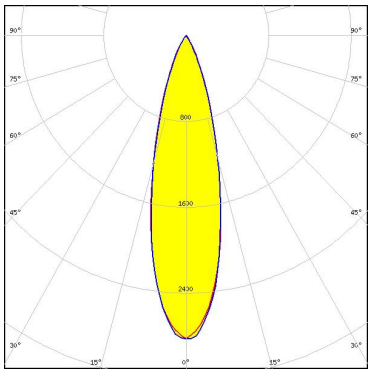
LED	LUXEON C
FWHM / FWTM	28.0° / 54.0°
Efficiency	75 %
Peak intensity	2.6 cd/lm
LEDs/each optic	1
Light colour	Deep Red
Required components:	



OPTICAL RESULTS (SIMULATED):

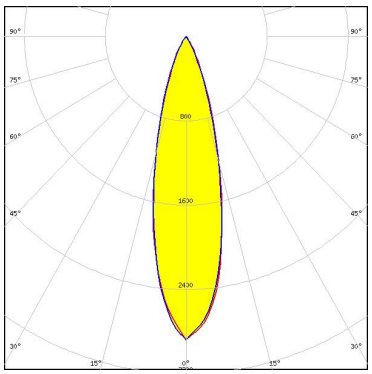
LUMILEDS

LED	LUXEON C
FWHM / FWTM	26.0° / 52.0°
Efficiency	76 %
Peak intensity	2.8 cd/lm
LEDs/each optic	1
Light colour	Green
Required components:	



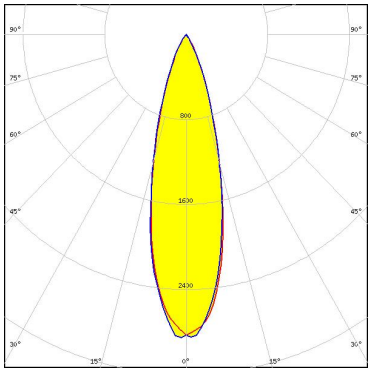
LUMILEDS

LED	LUXEON C
FWHM / FWTM	27.0° / 51.0°
Efficiency	76 %
Peak intensity	2.9 cd/lm
LEDs/each optic	1
Light colour	Royal Blue
Required components:	



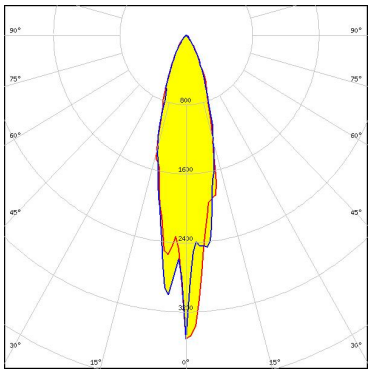
LUMILEDS

LED	LUXEON C
FWHM / FWTM	28.0° / 52.0°
Efficiency	80 %
Peak intensity	2.9 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



LUMILEDS

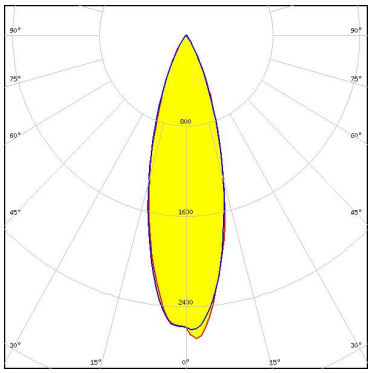
LED	LUXEON TX
FWHM / FWTM	28.0° / 50.0°
Efficiency	87 %
Peak intensity	3.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



OPTICAL RESULTS (SIMULATED):

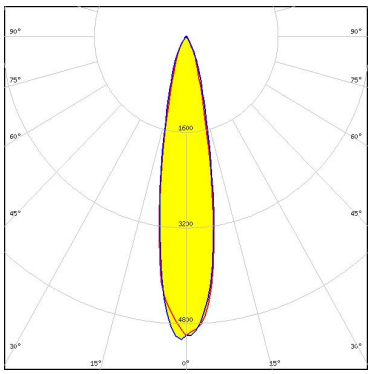
LUMILEDS

LED	LUXEON V2
FWHM / FWTM	30.0° / 56.0°
Efficiency	90 %
Peak intensity	2.7 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



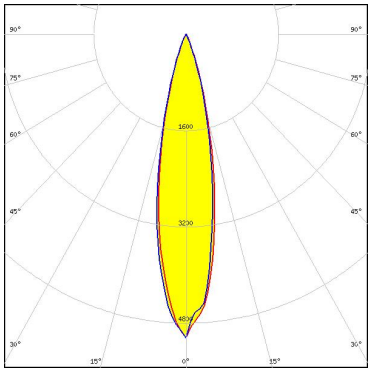
LUMILEDS

LED	LUXEON Z
FWHM / FWTM	20.0° / 38.0°
Efficiency	88 %
Peak intensity	6.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



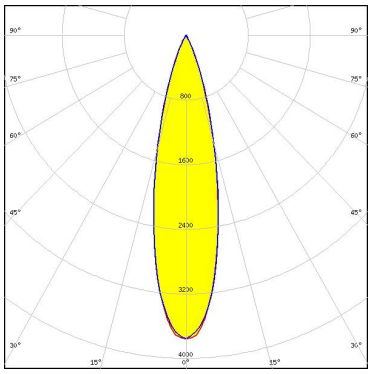
LUMILEDS

LED	LUXEON Z ES
FWHM / FWTM	22.0° / 41.0°
Efficiency	89 %
Peak intensity	5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



LUMINUS

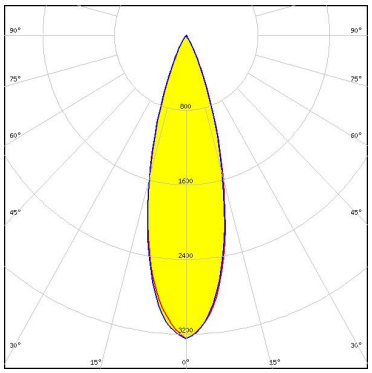
LED	SST-20
FWHM / FWTM	26.0° / 46.0°
Efficiency	87 %
Peak intensity	3.8 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



OPTICAL RESULTS (SIMULATED):

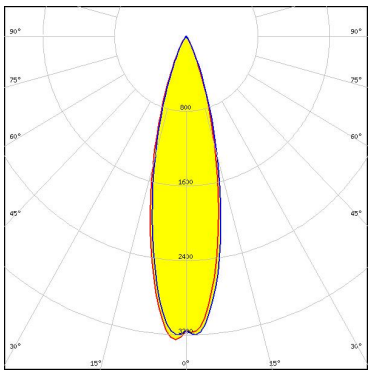
NICHIA

LED	NCSU276C
FWHM / FWTM	30.0° / 52.0°
Efficiency	89 %
LEDs/each optic	1
Light colour	UV-A
Required components:	



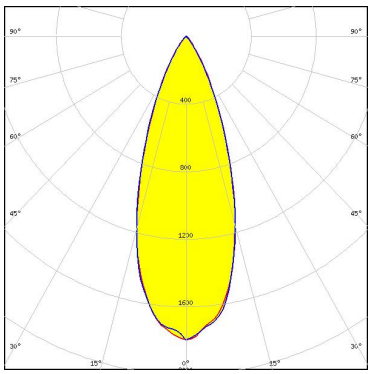
NICHIA

LED	NCSxx19B
FWHM / FWTM	26.0° / 49.0°
Efficiency	83 %
Peak intensity	3.3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



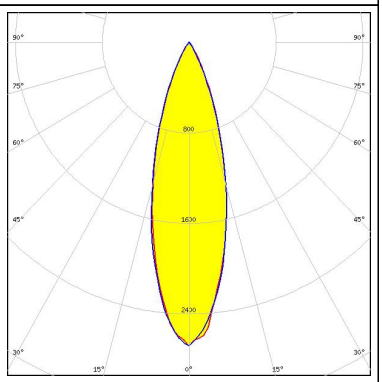
NICHIA

LED	NV4WB35AM
FWHM / FWTM	38.0° / 66.0°
Efficiency	85 %
Peak intensity	1.8 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



NICHIA

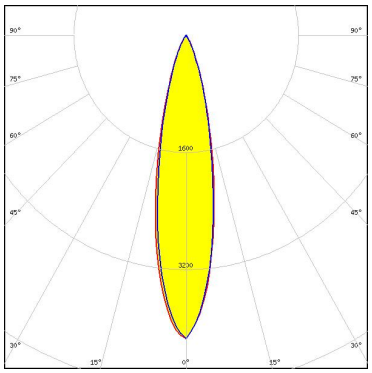
LED	NVSxx19B/NVSxx19C
FWHM / FWTM	29.0° / 56.0°
Efficiency	86 %
Peak intensity	2.7 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



OPTICAL RESULTS (SIMULATED):

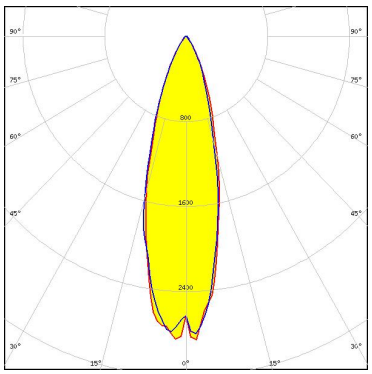
OSRAM Opto Semiconductors

LED	Duris E 2835
FWHM / FWTM	23.0° / 46.0°
Efficiency	87 %
Peak intensity	4.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



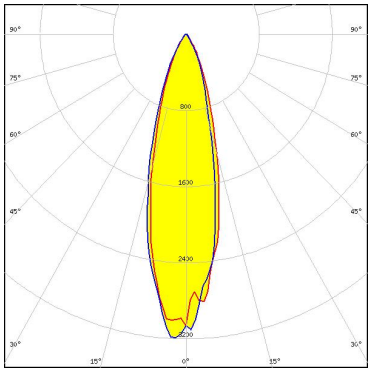
OSRAM Opto Semiconductors

LED	Duris S5 (2 chip)
FWHM / FWTM	25.0° / 45.0°
Efficiency	89 %
Peak intensity	3.2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



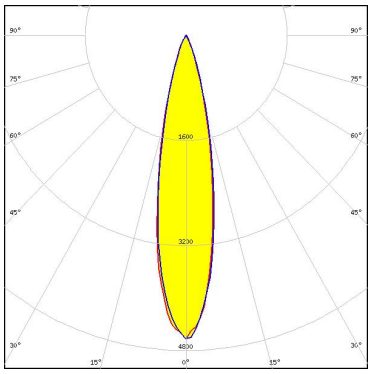
OSRAM Opto Semiconductors

LED	Duris S5 (Single chip)
FWHM / FWTM	25.0° / 45.0°
Efficiency	86 %
Peak intensity	3.7 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



OSRAM Opto Semiconductors

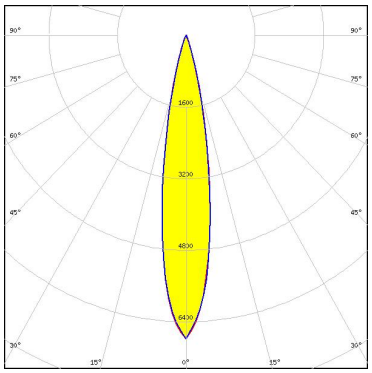
LED	OSCONIQ P 3030
FWHM / FWTM	22.0° / 42.0°
Efficiency	85 %
Peak intensity	4.7 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



OPTICAL RESULTS (SIMULATED):

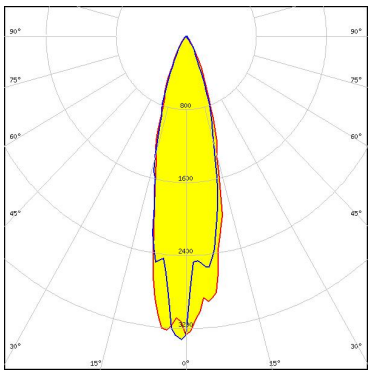
OSRAM Opto Semiconductors

LED	OSLON Black
FWHM / FWTM	18.0° / 34.0°
Efficiency	88 %
Peak intensity	6.8 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



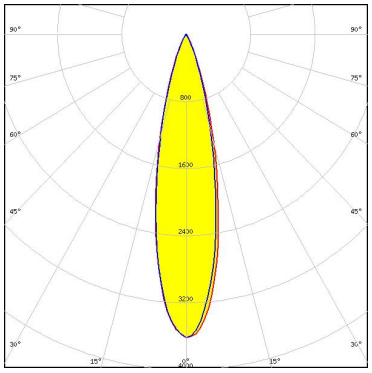
OSRAM Opto Semiconductors

LED	OSLON Square EC
FWHM / FWTM	26.0° / 49.0°
Efficiency	88 %
Peak intensity	3.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



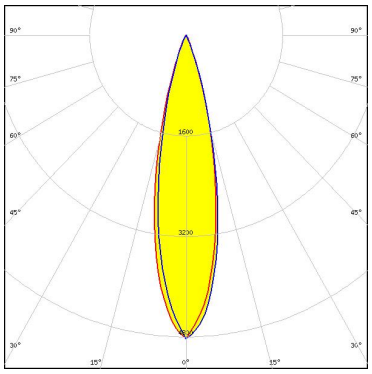
OSRAM Opto Semiconductors

LED	OSLON Square Flat
FWHM / FWTM	24.0° / 45.0°
Efficiency	78 %
Peak intensity	3.6 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



OSRAM Opto Semiconductors

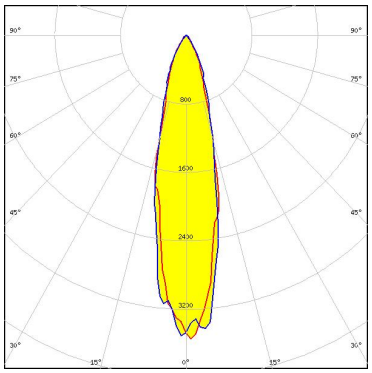
LED	OSLON SSL 120
FWHM / FWTM	23.0° / 41.0°
Efficiency	91 %
Peak intensity	4.8 cd/lm
LEDs/each optic	1
Light colour	Hyper Red
Required components:	



OPTICAL RESULTS (SIMULATED):

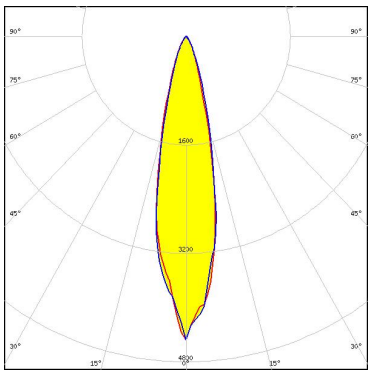
OSRAM
Opto Semiconductors

LED	OSLON SSL 150
FWHM / FWTM	25.0° / 45.0°
Efficiency	89 %
Peak intensity	4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



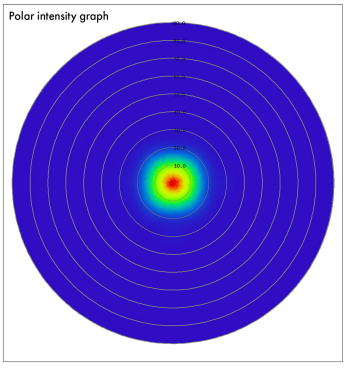
OSRAM
Opto Semiconductors

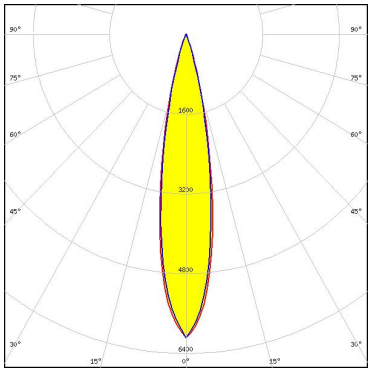
LED	OSLON SSL 80
FWHM / FWTM	21.0° / 40.0°
Efficiency	87 %
Peak intensity	5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



OSRAM
Opto Semiconductors

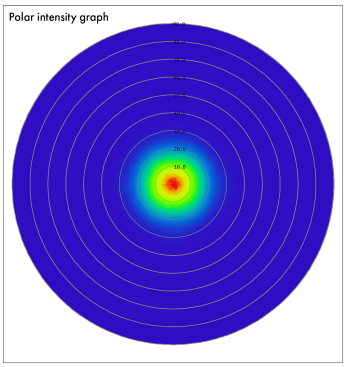
LED	SFH 4715S
FWHM / FWTM	20.0° / 35.0°
Efficiency	87 %
LEDs/each optic	1
Light colour	IR
Required components:	

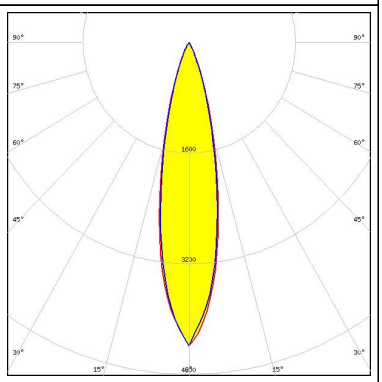




OSRAM
Opto Semiconductors

LED	SFH 4716S
FWHM / FWTM	22.0° / 44.0°
Efficiency	86 %
LEDs/each optic	1
Light colour	IR
Required components:	

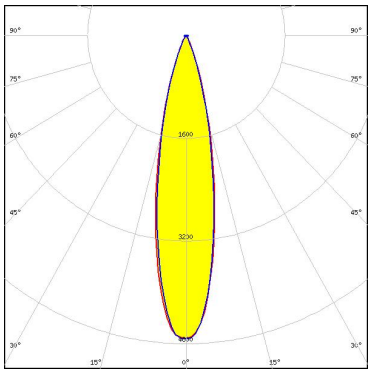




OPTICAL RESULTS (SIMULATED):

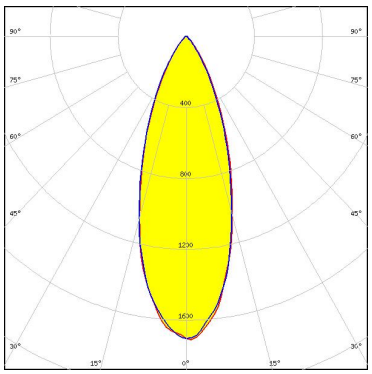
OSRAM
Opto Semiconductors

LED	SYNIOS S2222
FWHM / FWTM	23.0° / 44.0°
Efficiency	97 %
Peak intensity	4.7 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



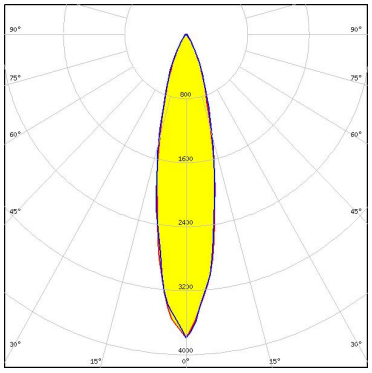
SAMSUNG

LED	LH351D
FWHM / FWTM	36.0° / 70.0°
Efficiency	85 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



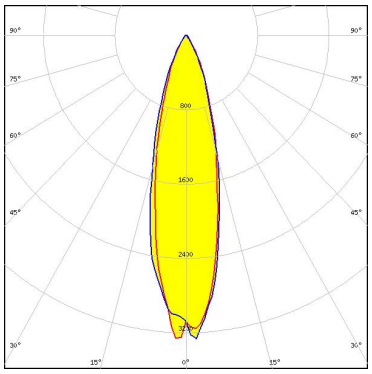
SAMSUNG

LED	LM301A
FWHM / FWTM	22.0° / 41.0°
Efficiency	87 %
Peak intensity	3.6 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



SAMSUNG

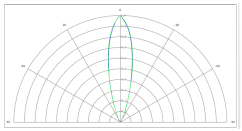
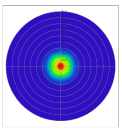
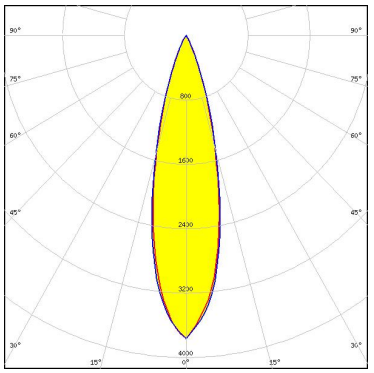
LED	LM302A
FWHM / FWTM	25.0° / 47.0°
Efficiency	87 %
Peak intensity	3.9 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



OPTICAL RESULTS (SIMULATED):

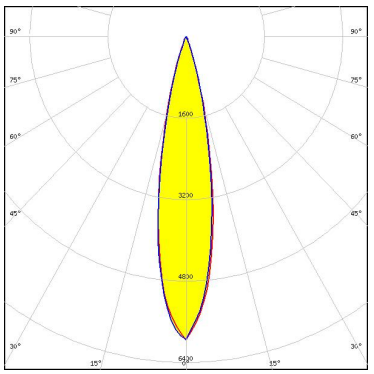
STANLEY

LED	FWR1108MS
FWHM / FWTM	25.0° / 46.0°
Efficiency	89 %
LEDs/each optic	1
Light colour	IR
Required components:	

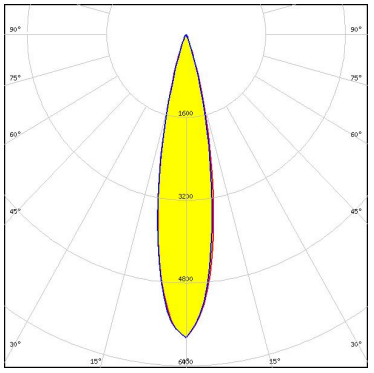
STANLEY

LED	MFN1108MS
FWHM / FWTM	21.0° / 37.0°
Efficiency	91 %
Peak intensity	6 cd/lm
LEDs/each optic	1
Light colour	IR
Required components:	



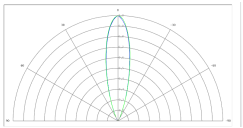
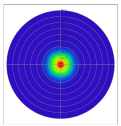
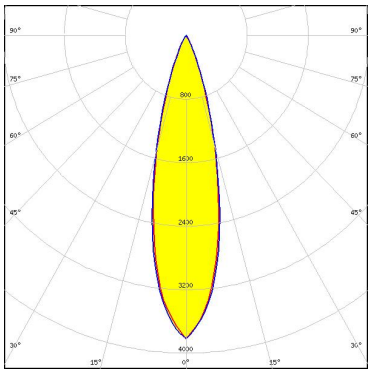
STANLEY

LED	MGN1108MS
FWHM / FWTM	22.0° / 37.0°
Efficiency	91 %
Peak intensity	5.9 cd/lm
LEDs/each optic	1
Light colour	IR
Required components:	



STANLEY

LED	MJN1108MS
FWHM / FWTM	25.0° / 46.0°
Efficiency	90 %
LEDs/each optic	1
Light colour	IR
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.

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