LISA2-M-CLIP

~20° medium beam optimized for CREE XP-E. 6.8 mm high variant with clip installation.



SPECIFICATION:

Dimensions	Ø 9.9 mm
Height	6.8 mm
Fastening	glue, clips
ROHS compliant	yes

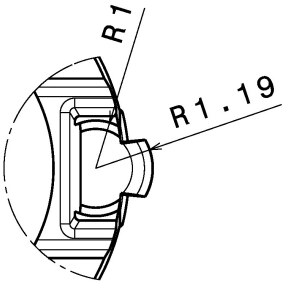
MATERIALS:

Component	Type	Material	Colour	Finish
LISA2-M	Single lens	PMMA	clear	
LISA2-HLD-CLIP16-XP	Holder	PC	black	

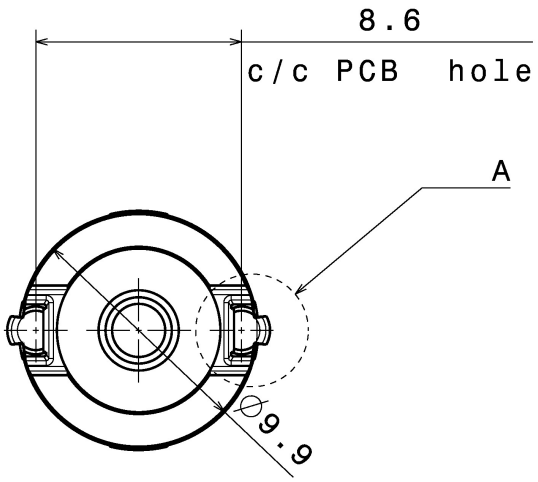
ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
FP13030_LISA2-M-CLIP	Single lens	2000		100	1.4
» Box size:					

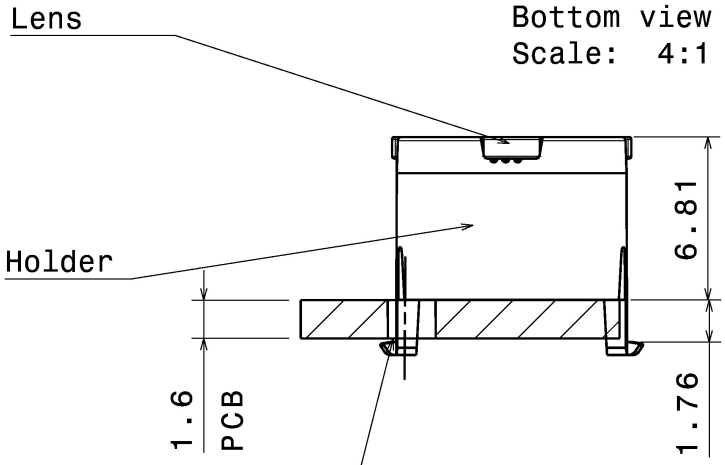
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Detail A
Scale: 8:1



Bottom view
Scale: 4:1



Front view
Scale: 4:1

Materials:
Lens PMMA
Holder PC

Note:
Take tolerances into account when specifying holes for PCB

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Ledil Oy
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FIN-24240 SALO
Finland

DRAWN BY: pl	DATE: 20.06.2012	DRAWING TITLE: Datasheet Lisa2-clip16-XT series Assy		
CHECKED BY: sn	DATE: 20.7.2011	SIZE: A4	DRAWING NUMBER:	REV: 1
DESIGNED BY: pl	DATE: 20.06.2012	SCALE: 4:1	WEIGHT(g):	SHEET: 1/1

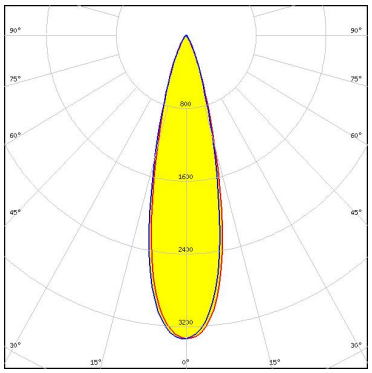
See also our general installation guide: www.ledil.com/installation_guide

OPTICAL RESULTS (MEASURED):

CREE LEDs

LED	XP-G2
FWHM / FWTM	25.0° / 47.0°
Efficiency	89 %
Peak intensity	3.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

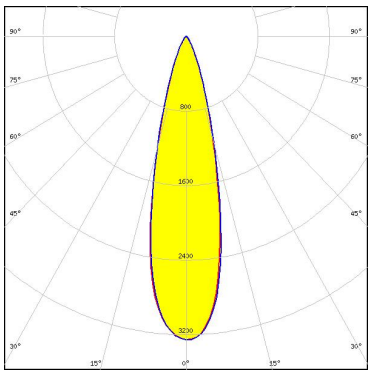




CREE LEDs

LED	XT-E
FWHM / FWTM	26.0° / 49.0°
Efficiency	89 %
Peak intensity	3.3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

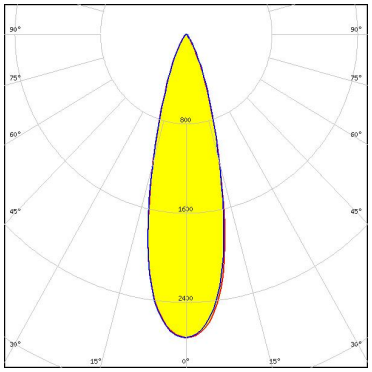




LUMILEDS

LED	LUXEON T
FWHM / FWTM	28.0° / 54.0°
Efficiency	87 %
Peak intensity	2.7 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

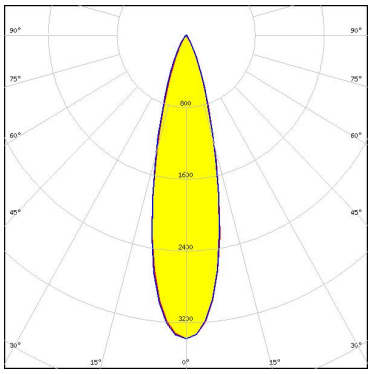




LUMILEDS

LED	LUXEON TX
FWHM / FWTM	26.0° / 51.0°
Efficiency	88 %
Peak intensity	3.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	





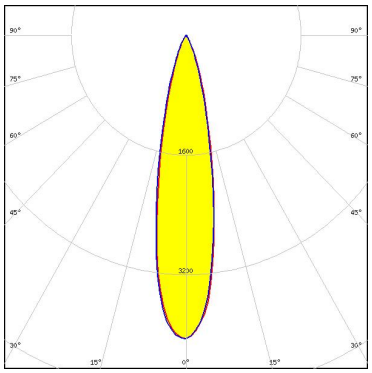
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OPTICAL RESULTS (MEASURED):

NICHIA

LED	NCSxx19B
FWHM / FWTM	23.0° / 46.0°
Efficiency	85 %
Peak intensity	4.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

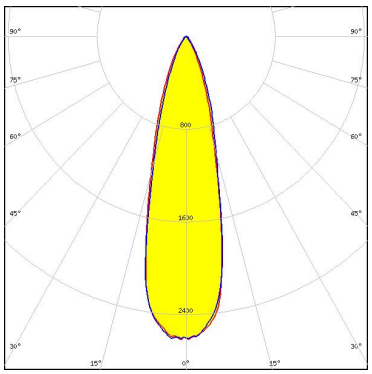




NICHIA

LED	NVSxx19B/NVSxx19C
FWHM / FWTM	27.0° / 56.0°
Efficiency	86 %
Peak intensity	2.6 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

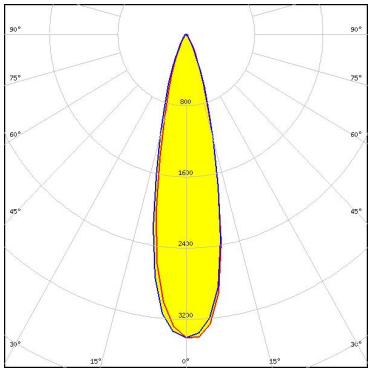




OSRAM
Opto Semiconductors

LED	OSLON Square EC
FWHM / FWTM	26.0° / 49.0°
Efficiency	85 %
Peak intensity	3.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

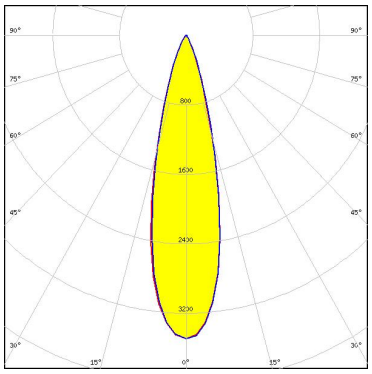




SAMSUNG

LED	LH351Z
FWHM / FWTM	26.0° / 50.0°
Efficiency	87 %
Peak intensity	3.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



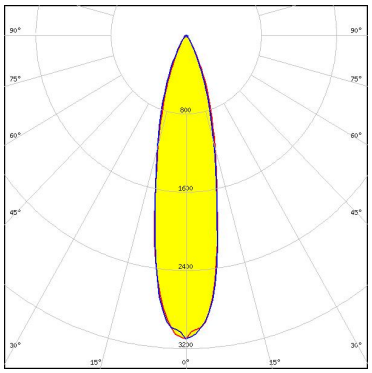


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OPTICAL RESULTS (SIMULATED):

LUMILEDS

LED	LUXEON H50-2
FWHM / FWTM	24.0° / 52.0°
Efficiency	89 %
Peak intensity	3.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

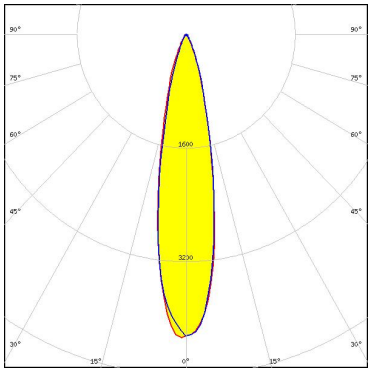


LUMILEDS

LED	LUXEON IR Compact
FWHM / FWTM	14.0° / 29.0°
Efficiency	82 %
LEDs/each optic	1
Light colour	White
Required components:	

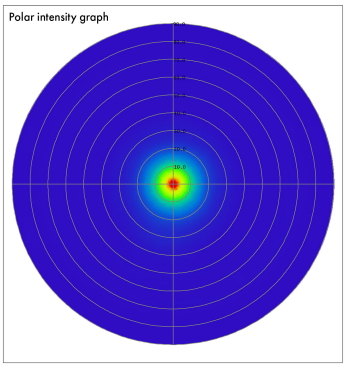
OSRAM
Opto Semiconductors

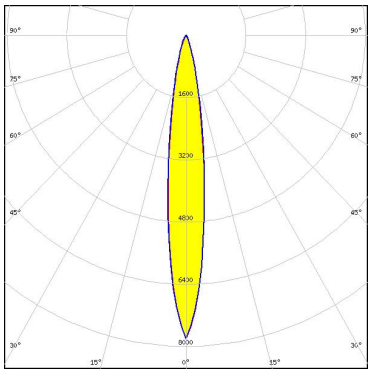
LED	OSLON Square CSSRM2/CSSRM3
FWHM / FWTM	21.0° / 44.0°
Efficiency	91 %
Peak intensity	4.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



OSRAM
Opto Semiconductors

LED	SFH 4770S
FWHM / FWTM	14.0° / 33.0°
Efficiency	90 %
LEDs/each optic	1
Light colour	IR
Required components:	



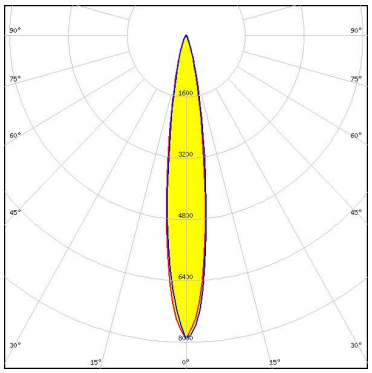


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OPTICAL RESULTS (SIMULATED):

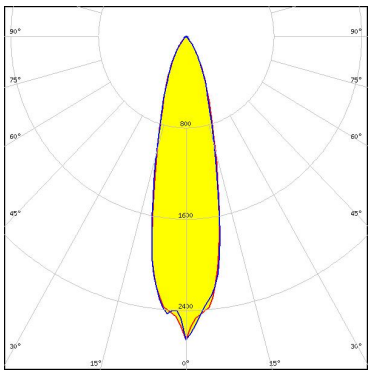
OSRAM
Opto Semiconductors

LED	Synios P2720 1/2 mm
FWHM / FWTM	15.0° / 33.0°
Efficiency	90 %
Peak intensity	7.9 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



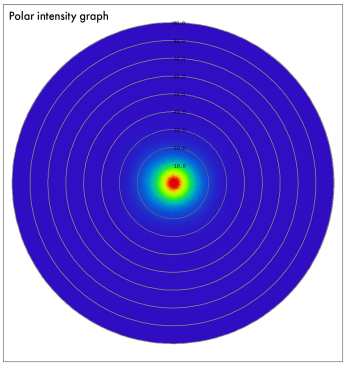
SEOUL SEMICONDUCTOR

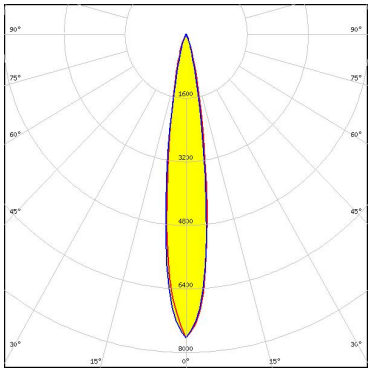
LED	Z8Y22P
FWHM / FWTM	25.0° / 56.0°
Efficiency	84 %
Peak intensity	2.7 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



STANLEY

LED	MGN1108MS
FWHM / FWTM	16.0° / 32.0°
Efficiency	84 %
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:

As part of our continuous research and improvement processes, and to ensure the best possible quality and availability of our products, LEDiL reserves the right to change material grades without notice.

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