LARISA-RS-CLIP16

~19° real spot beam. Clip fastening for 1.6 mm thick PCB

TECHNICAL SPECIFICATIONS:

Dimensions	9.9 x 9.9 mm
Height	7.5 mm
Fastening	clips
ROHS compliant	yes

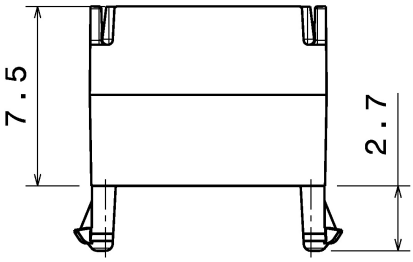
MATERIAL SPECIFICATIONS:

Component	Type	Material	Colour	Finish
LARISA-RS	Single lens	PMMA	clear	
LARISA-HOLDER-CLIP16	Holder	PC	black	

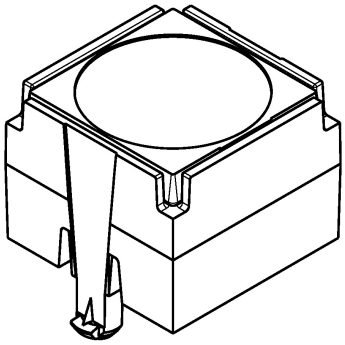
ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CP12939_LARISA-RS-CLIP16 » Box size: 300 x 250 x 250 mm	Single lens	10000	300	100	5.8

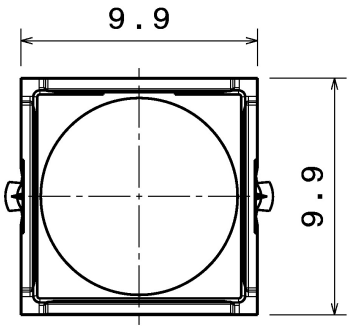
Designed for the following pin hole dimensions: Hole diameter 1.95mm
Hole distance 8.6mm
PCB thickness 1.6mm



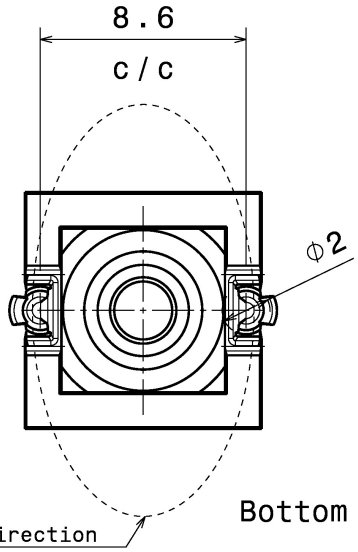
Front view



Isometric view
Scale: 4:1



Top view



Bottom view

INDEX	PART NO	DESCRIPTION	MATERIAL	COLOUR
1	-	LARISA lens	PMMA	
2	C12908	LARISA-HOLDER-CLIP16	PC	black

Tolerances if not otherwise shown
According to DIN ISO 2768-1
Linear measures:
Up to 30mm class M, otherwise class C.
According to DIN ISO 2768-2
Form and position: class L

THIRD ANGLE PROJECTION:

Ledil Oy
Salorankatu 10
FIN 24240 SALO
Finland

DRAWING TITLE
LARISA-CLIP16 series

SIZE A4 | PART NUMBER -

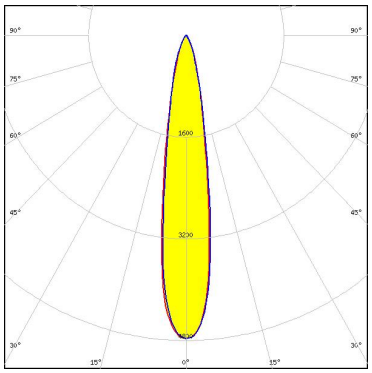
SCALE 4:1 | WEIGHT 0,6 g | SHEET 1/1

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

PHOTOMETRIC DATA (MEASURED):

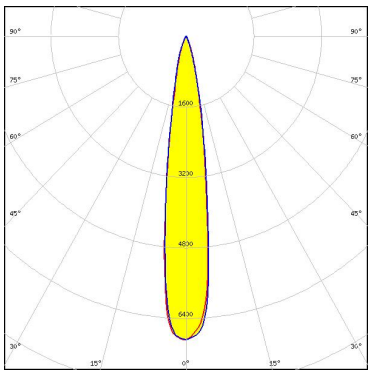
CREE LED

LED	XD16
FWHM / FWTM	18.0° / 40.0°
Efficiency	80 %
Peak intensity	4.8 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



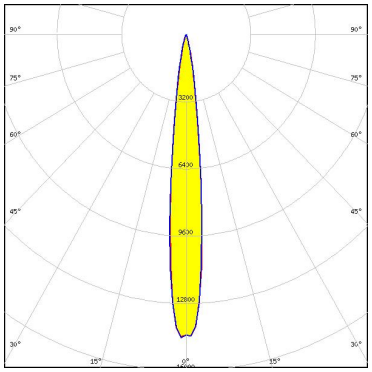
CREE LED

LED	XQ-E HD
FWHM / FWTM	16.0° / 33.0°
Efficiency	86 %
Peak intensity	6.9 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



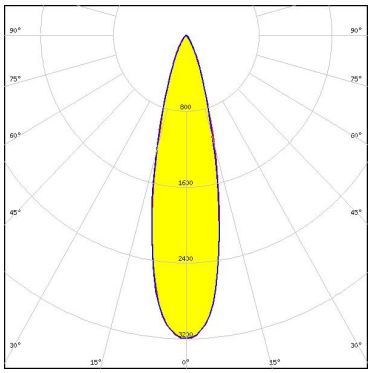
CREE LED

LED	XQ-E HI
FWHM / FWTM	11.0° / 28.0°
Efficiency	80 %
Peak intensity	10.7 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



LUMILEDS

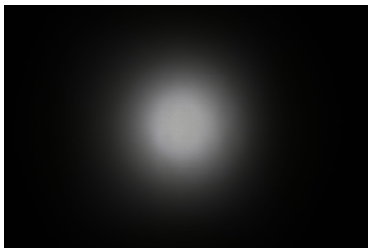
LED	LUXEON A
FWHM / FWTM	26.0° / 51.0°
Efficiency	89 %
Peak intensity	3.2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

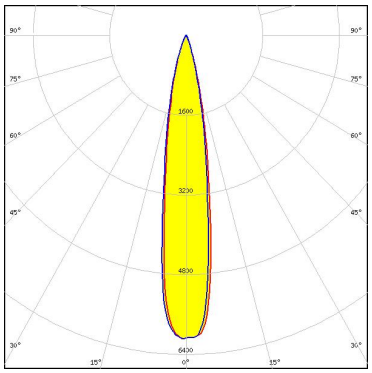


PHOTOMETRIC DATA (MEASURED):

LUMILEDS

LED	LUXEON C
FWHM / FWTM	17.0° / 36.0°
Efficiency	86 %
Peak intensity	6.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



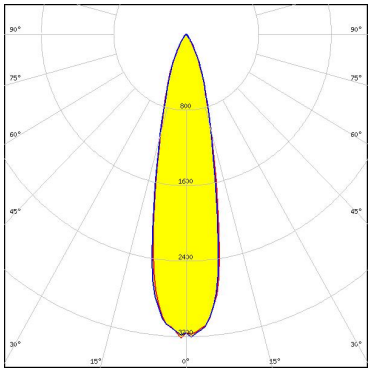


LUMILEDS

LED	LUXEON Rebel
FWHM / FWTM	20.0° / 45.0°
Efficiency	90 %
Peak intensity	4.6 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

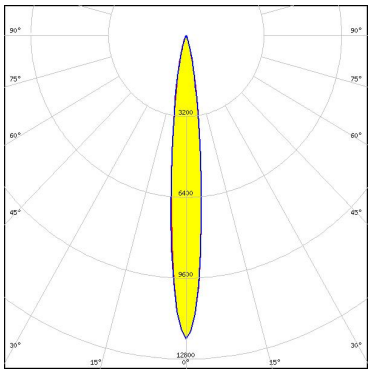
LUMILEDS

LED	LUXEON Rebel ES
FWHM / FWTM	24.0° / 53.0°
Efficiency	88 %
Peak intensity	3.2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



LUMILEDS

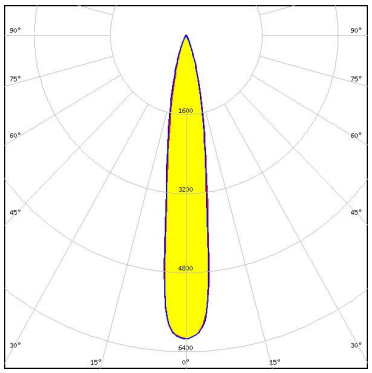
LED	LUXEON Z
FWHM / FWTM	11.0° / 27.0°
Efficiency	85 %
Peak intensity	12.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



PHOTOMETRIC DATA (MEASURED):

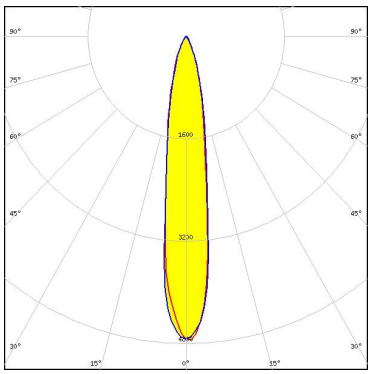
LUMILEDS

LED	LUXEON Z ES
FWHM / FWTM	16.0° / 37.0°
Efficiency	89 %
Peak intensity	6.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



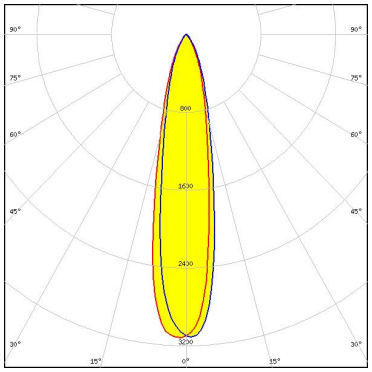
NICHIA

LED	NCSxx19A
FWHM / FWTM	16.0° / 43.0°
Efficiency	84 %
Peak intensity	4.8 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



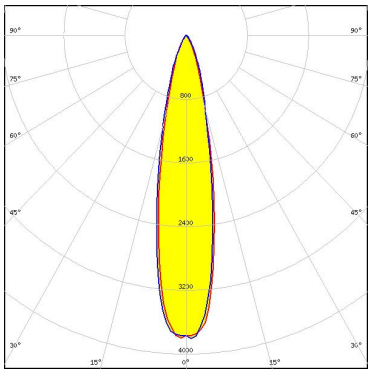
NICHIA

LED	NVSxx19A
FWHM / FWTM	21.0° / 52.0°
Efficiency	81 %
Peak intensity	3.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



OSRAM
Opto Semiconductors

LED	OSLON Square EC
FWHM / FWTM	22.0° / 47.0°
Efficiency	86 %
Peak intensity	3.8 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



PHOTOMETRIC DATA (MEASURED):

OSRAM
Opto Semiconductors

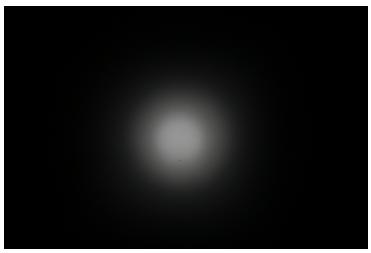
LED	OSLON SSL 150
FWHM / FWTM	16.0° / 39.0°
Efficiency	87 %
Peak intensity	8.1 cd/lm
LEDs/each optic	1
Light colour	White

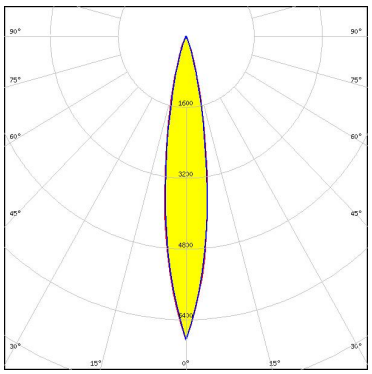
Required components:

OSRAM
Opto Semiconductors

LED	OSLON SSL 80
FWHM / FWTM	16.0° / 36.0°
Efficiency	83 %
Peak intensity	6.5 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

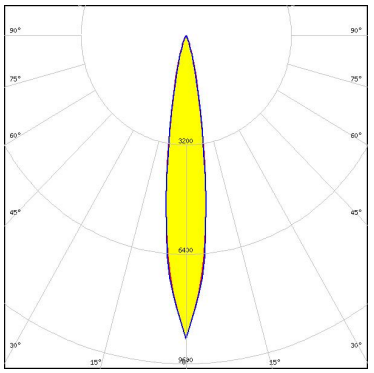




PHOTOMETRIC DATA (SIMULATED):

CREE LED

LED	XP-E
FWHM / FWTM	15.0°
Efficiency	92 %
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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