LISA2-M-PIN

~20° medium beam. 6.8 mm high variant with location pin installation.

TECHNICAL SPECIFICATIONS:

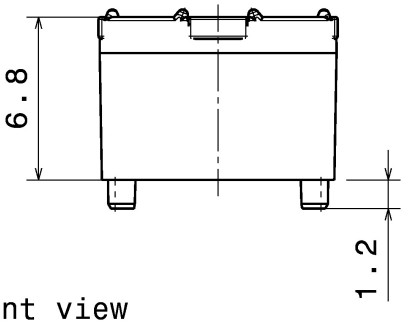
Dimensions	Ø 9.9 mm
Height	6.8 mm
Fastening	glue, pin
ROHS compliant	yes

MATERIAL SPECIFICATIONS:

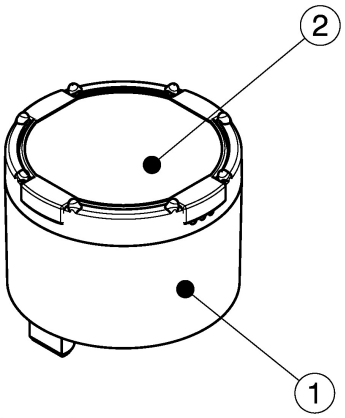
Component	Type	Material	Colour	Finish
LISA2-M	Single lens	PMMA	clear	
LISA2-HLD-PIN	Holder	PC	black	

ORDERING INFORMATION:

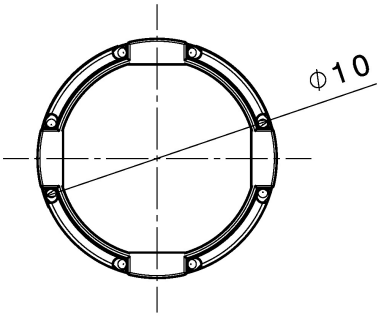
Component		Qty in box	MOQ	MPQ	Box weight (kg)
FP10995_LISA2-M-PIN » Box size: 310 x 230 x 60 mm	Single lens	2000	300	100	1.4



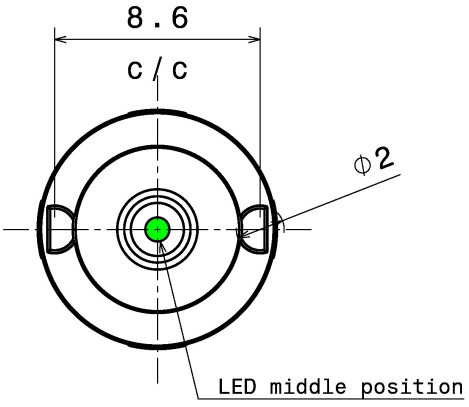
Front view



Isometric view



Top view



Bottom view

INDEX	PART NO	DESCRIPTION	MATERIAL	COLOUR
1	F10989	LISA2-HLD-PIN	PC	black
2	-	LISA2_lens	PMMA	

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

Ledil Oy
Salorankatu 10
FIN 24240 SALO
Finland

THIRD ANGLE PROJECTION:

DRAWING TITLE
Lisa2-PIN-XP assembly

SIZE A4

PART NUMBER -

SCALE 4:1 | WEIGHT 0,5 g | SHEET 1/1

PHOTOMETRIC DATA (MEASURED):

CREE

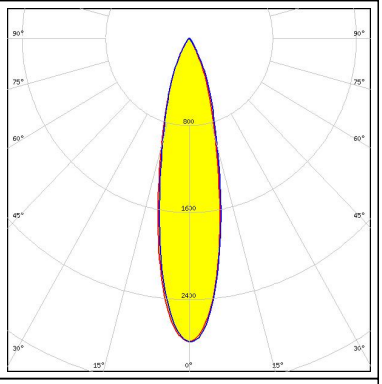
LED	XB-D
FWHM	26.0°
Efficiency	87 %
Peak intensity	2.7 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

CREE

LED	XD16
FWHM	24.0°
Efficiency	74 %
Peak intensity	2.8 cd/lm
LEDs/each optic	1
Light colour	White

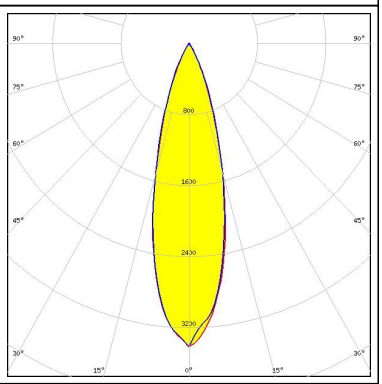
Required components:



CREE

LED	XP-E
FWHM	24.0°
Efficiency	92 %
LEDs/each optic	1
Light colour	White

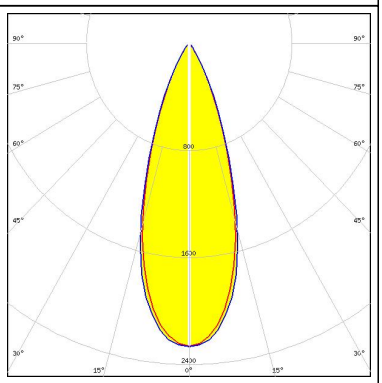
Required components:



CREE

LED	XP-G
FWHM	34.0°
Efficiency	91 %
Peak intensity	2.2 cd/lm
LEDs/each optic	1
Light colour	White

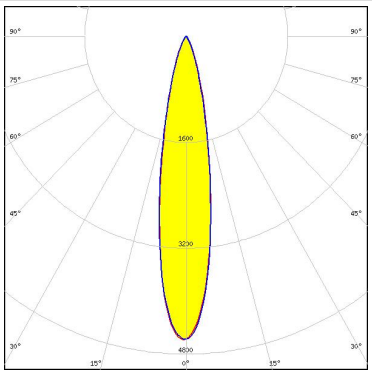
Required components:



PHOTOMETRIC DATA (MEASURED):

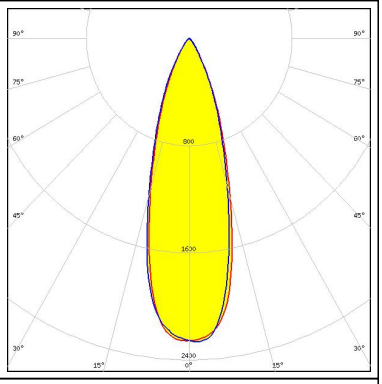
CREE

LED	XQ-E HI
FWHM	20.0°
Efficiency	85 %
Peak intensity	4.6 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



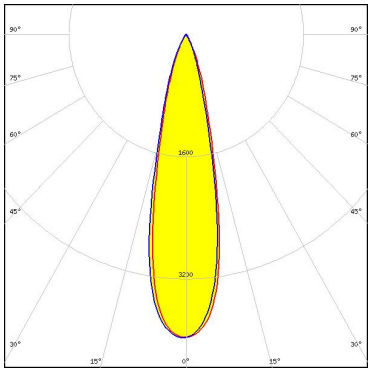
CREE

LED	XT-E
FWHM	31.0°
Efficiency	85 %
Peak intensity	2.3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



LUMILEDS

LED	LUXEON C
FWHM	24.0°
Efficiency	89 %
Peak intensity	4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



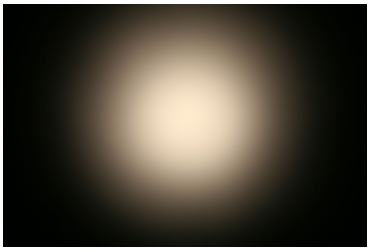
LUMILEDS

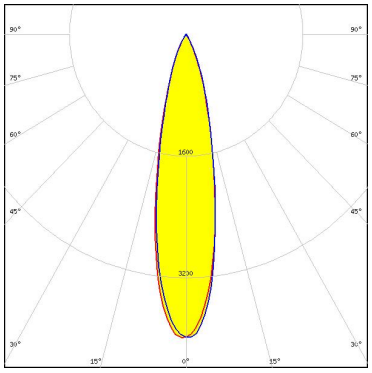
LED	LUXEON Z
FWHM	19.0°
Efficiency	86 %
Peak intensity	5.3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

PHOTOMETRIC DATA (MEASURED):

LUMILEDS

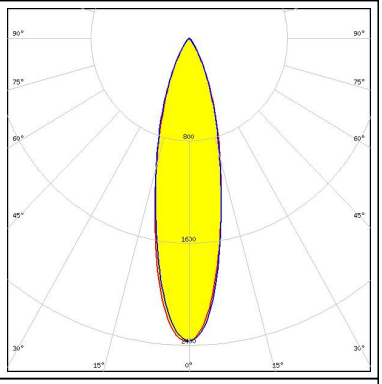
LED	LUXEON Z ES
FWHM	23.0°
Efficiency	87 %
Peak intensity	4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	





NICHIA

LED	NCSxE17A
FWHM	26.0°
Efficiency	74 %
Peak intensity	2.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



OSRAM
Opto Semiconductors

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

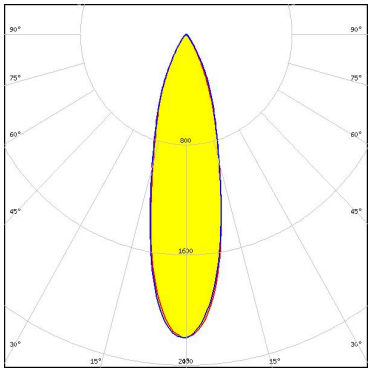
OSRAM
Opto Semiconductors

LED	SFH 4180S
FWHM	14.0°
Efficiency	%
LEDs/each optic	1
Light colour	IR
Required components:	

PHOTOMETRIC DATA (MEASURED):

SAMSUNG

LED	LH181B
FWHM	27.0°
Efficiency	74 %
Peak intensity	2.2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



SHARP

LED	Double Dome (GM2BB)
FWHM	28.0°
Efficiency	88 %
LEDs/each optic	1
Light colour	White
Required components:	

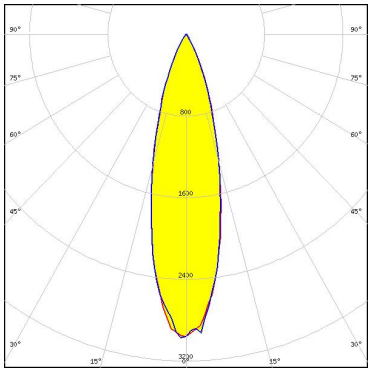
PHOTOMETRIC DATA (SIMULATED):

CREE

LED	XQ-E HD
FWHM	27.5°
Efficiency	91 %
Peak intensity	3.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

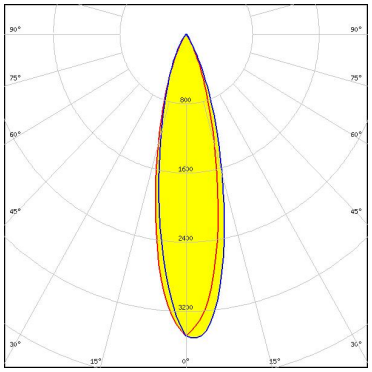
NICHIA

LED	NVSxE21A
FWHM	27.0°
Efficiency	86 %
Peak intensity	3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



OSRAM
Opto Semiconductors

LED	SFH 4770S
FWHM	25.0°
Efficiency	91 %
Peak intensity	3.5 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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