

LISA2-M-PIN

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

SPECIFICATION:

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

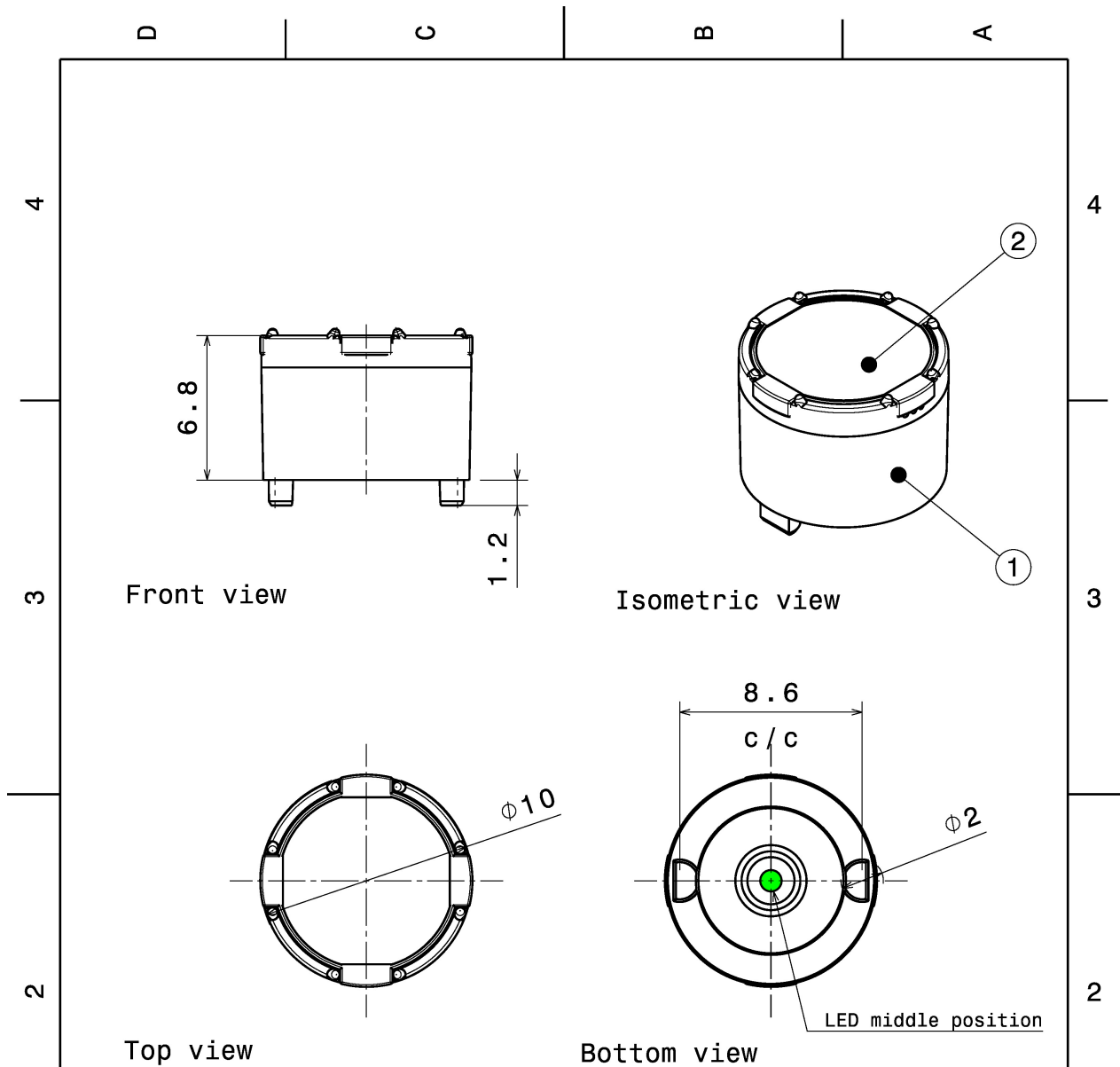


MATERIALS:

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

ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
FP13028_LISA2-M-PIN	Single lens	2000		100	1.4
» Box size:					



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 Ledil Oy
Salorankatu 10
FIN 24240 SALO
Finland

THIRD ANGLE PROJECTION:

DRAWING TITLE
Lisa2-PIN-XP assembly

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SIZE	PART NUMBER
A4	-

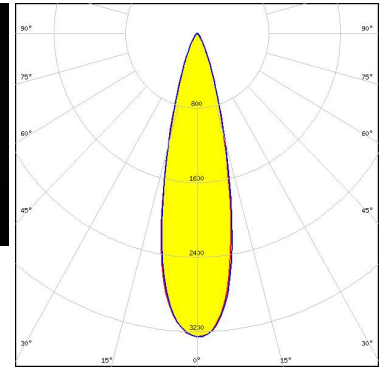
SCALE	4:1	WEIGHT	0,5 g	SHEET	1/1
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See also our general installation guide: www.ledil.com/installation_guide

OPTICAL RESULTS (MEASURED):



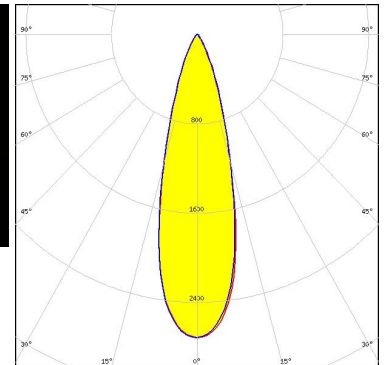
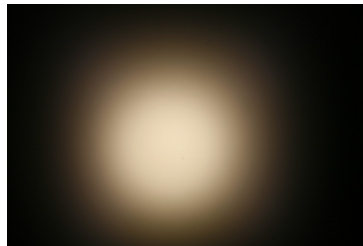
LED XT-E
FWHM / FWTM 26.0° / 49.0°
Efficiency 89 %
Peak intensity 3.3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



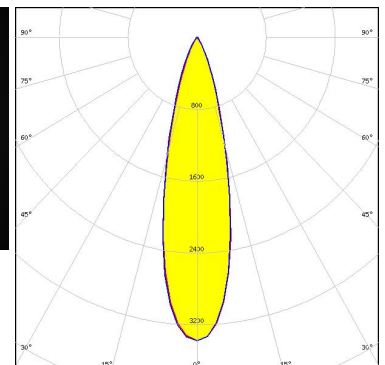
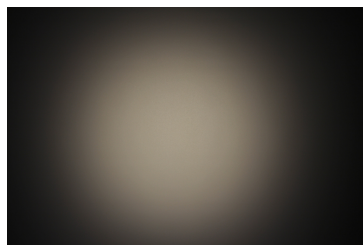
LED LUXEON T
FWHM / FWTM 28.0° / 54.0°
Efficiency 87 %
Peak intensity 2.7 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



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


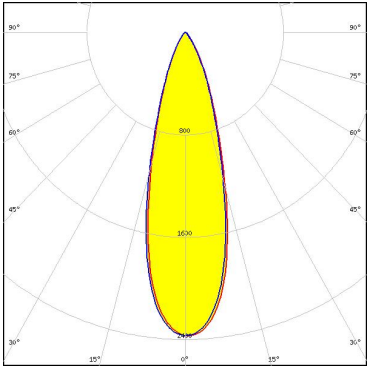


Light distribution files

OPTICAL RESULTS (MEASURED):

NICHIA

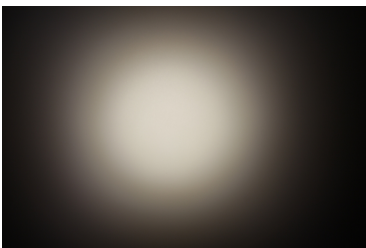
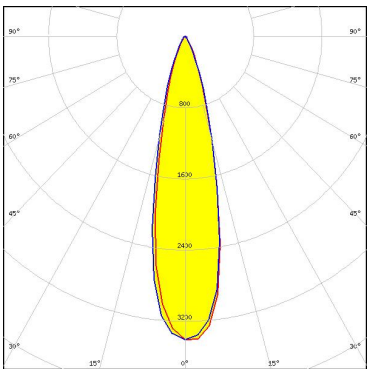
LED	NVSxx19B/NVSxx19C
FWHM / FWTM	30.0° / 58.0°
Efficiency	86 %
Peak intensity	2.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

Light distribution files

OSRAM
Opto Semiconductors

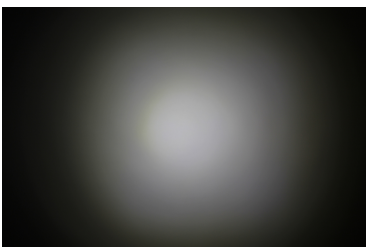
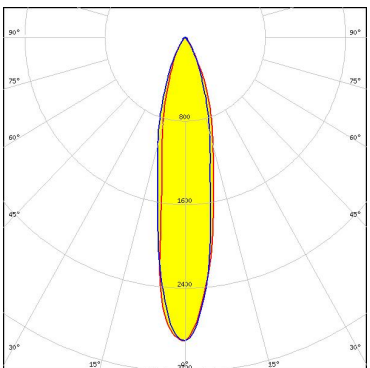
LED	OSLON Square EC
FWHM / FWTM	26.0° / 49.0°
Efficiency	84 %
Peak intensity	3.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

Light distribution files

SAMSUNG

LED	LH181B
FWHM / FWTM	20.0° / 53.0°
Efficiency	78 %
Peak intensity	2.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

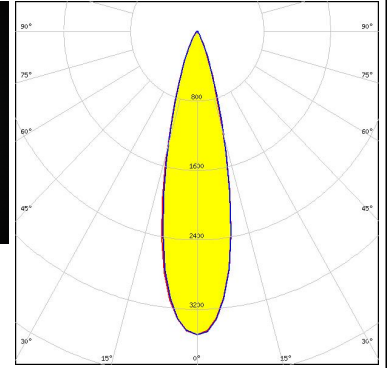



Light distribution files

OPTICAL RESULTS (MEASURED):

SAMSUNG

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

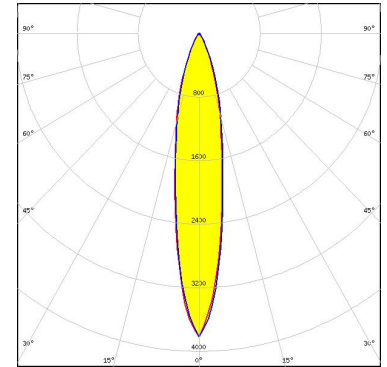


Light distribution files

OPTICAL RESULTS (SIMULATED):



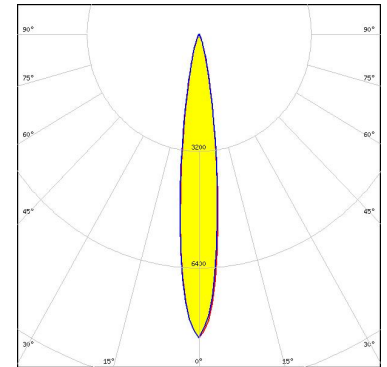
LED CSP 2323 (BXCP)
FWHM / FWTM 19.0° / 48.0°
Efficiency 82 %
Peak intensity 3.8 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



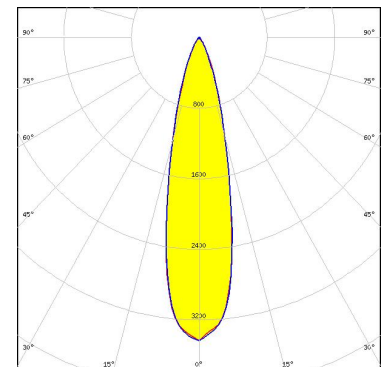
LED LUXEON IR Compact
FWHM / FWTM 15.0° / 31.0°
Efficiency 85 %
LEDs/each optic 1
Light colour/type IR
Required components:



Light distribution files



LED LUXEON Rebel ES
FWHM / FWTM 24.0° / 49.0°
Efficiency 90 %
Peak intensity 3.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

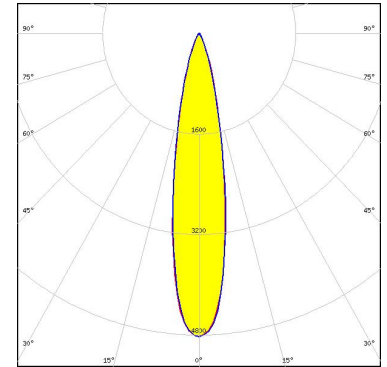


Light distribution files

OPTICAL RESULTS (SIMULATED):



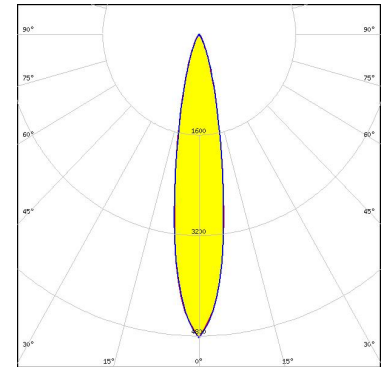
LED SST-20
FWHM / FWTM 20.0° / 42.0°
Efficiency 89 %
Peak intensity 4.8 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



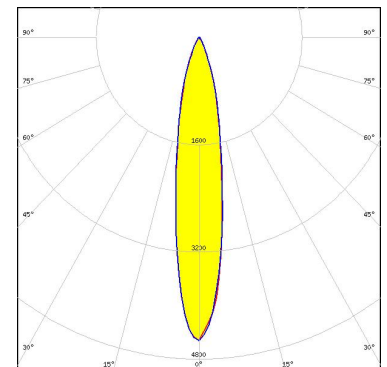
LED NCSxx19B
FWHM / FWTM 19.0° / 42.0°
Efficiency 85 %
Peak intensity 4.8 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED NVSxE21A
FWHM / FWTM 18.0° / 44.0°
Efficiency 85 %
Peak intensity 4.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

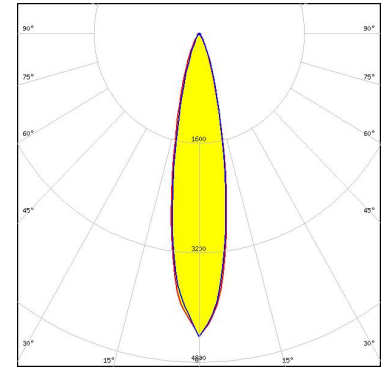


Light distribution files

OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

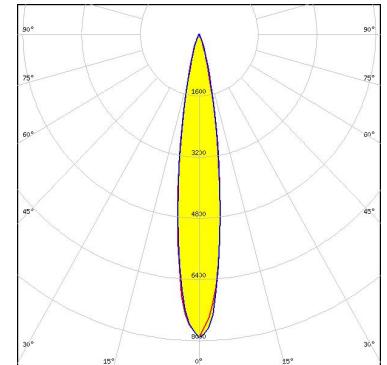
LED OSLON Square CSSRM2/CSSRM3
 FWHM / FWTM 21.0° / 44.0°
 Efficiency 91 %
 Peak intensity 4.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

OSRAM
Opto Semiconductors

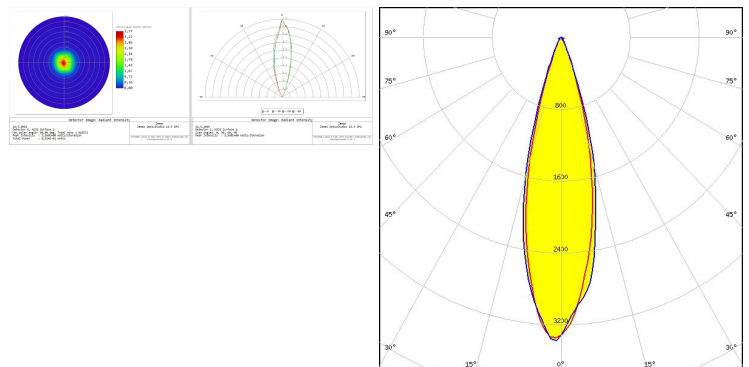
LED OSLON SSL 150
 FWHM / FWTM 16.0° / 33.0°
 Efficiency 91 %
 Peak intensity 7.9 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files

OSRAM
Opto Semiconductors

LED SFH 4715AS
 FWHM / FWTM 26.0° / 45.0°
 Efficiency 89 %
 LEDs/each optic 1
 Light colour/type White
 Required components:

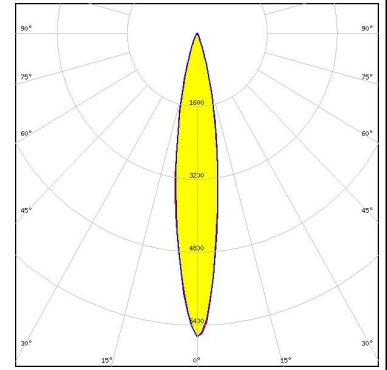


Light distribution files

OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

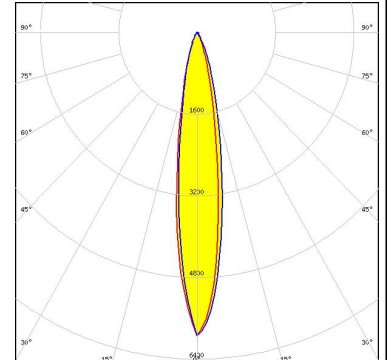
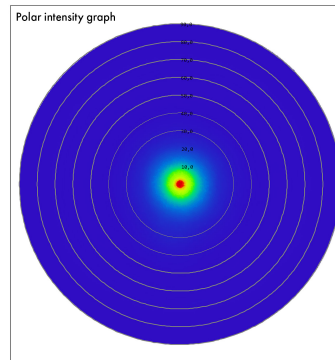
LED SFH 4716AS
FWHM / FWTM 16.0° / 36.0°
Efficiency 89 %
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

OSRAM
Opto Semiconductors

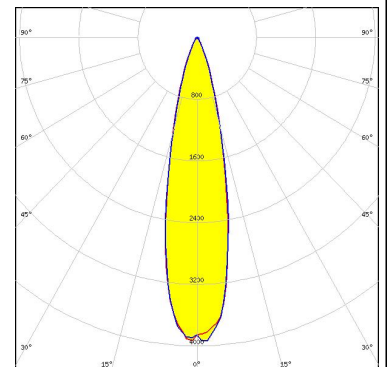
LED SFH 4770S
FWHM / FWTM 12.0° / 30.0°
Efficiency 90 %
LEDs/each optic 1
Light colour/type IR
Required components:



Light distribution files


SEUL
SEOUL SEMICONDUCTOR

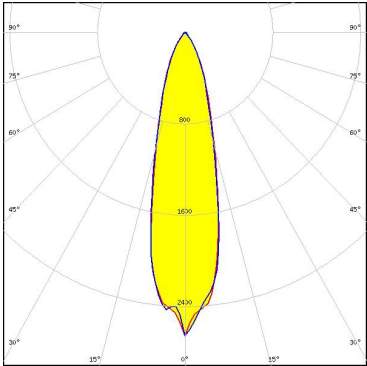
LED Z5M1/Z5M2
FWHM / FWTM 23.0° / 45.0°
Efficiency 91 %
Peak intensity 4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

OPTICAL RESULTS (SIMULATED):

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



Light distribution files

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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