

LISA2-M-PIN

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

SPECIFICATION:

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

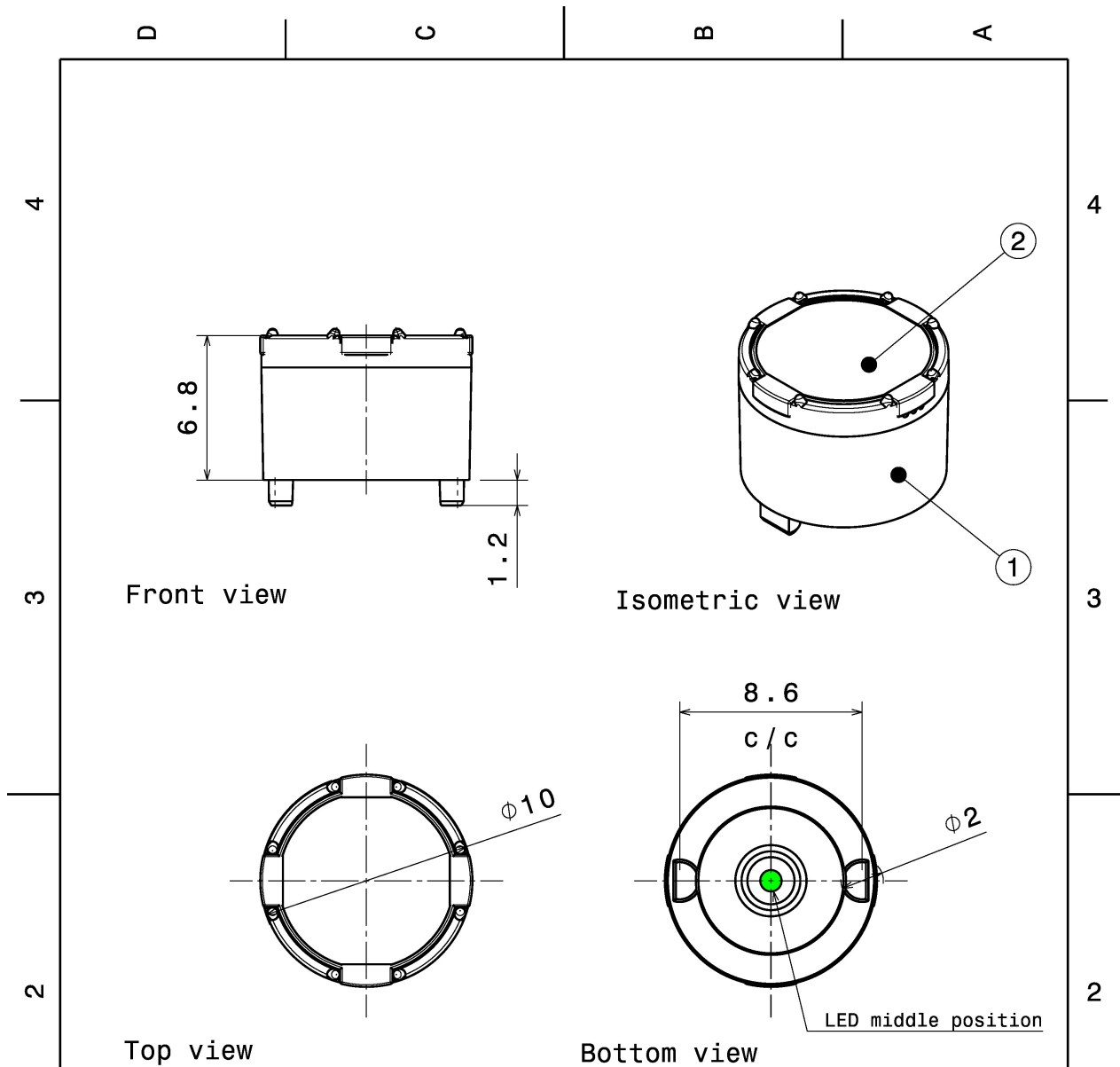


MATERIALS:

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)
FP10995_LISA2-M-PIN	Single lens	2000	300	100	1.4
» Box size: 310 x 230 x 60 mm					



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
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Finland

THIRD ANGLE PROJECTION:

DRAWING TITLE
Lisa2-PIN-XP assembly

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SIZE	PART NUMBER
A4	-

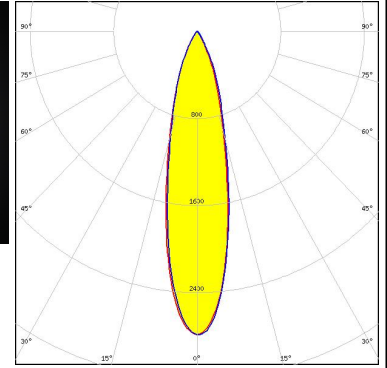
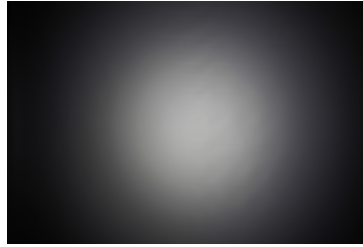
SCALE	4:1	WEIGHT	0,5 g	SHEET	1/1
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See also our general installation guide: www.ledil.com/installation_guide

OPTICAL RESULTS (MEASURED):



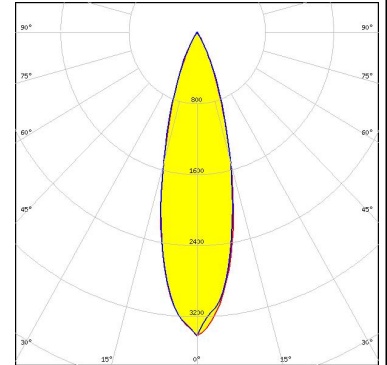
LED XD16
 FWHM / FWTM 24.0° / 53.0°
 Efficiency 74 %
 Peak intensity 2.8 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



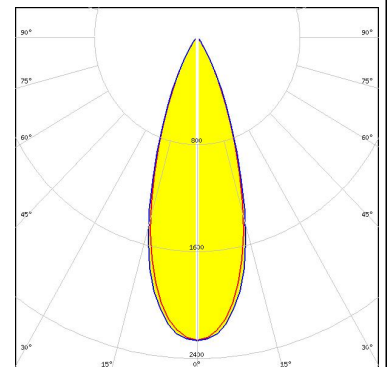
LED XP-E
 FWHM / FWTM 24.0°
 Efficiency 92 %
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED XP-G
 FWHM / FWTM 34.0° / 60.0°
 Efficiency 91 %
 Peak intensity 2.2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

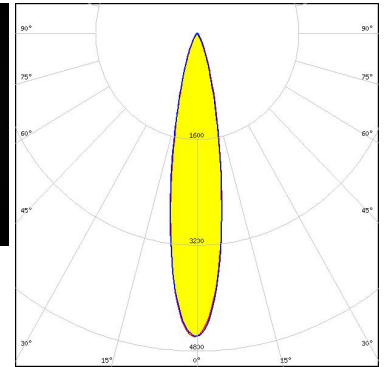


Light distribution files

OPTICAL RESULTS (MEASURED):



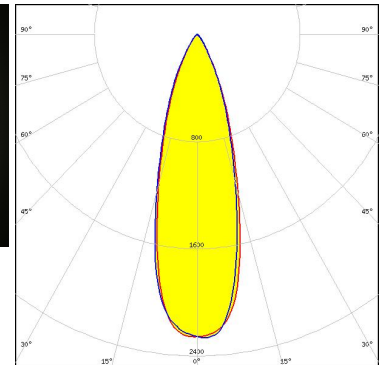
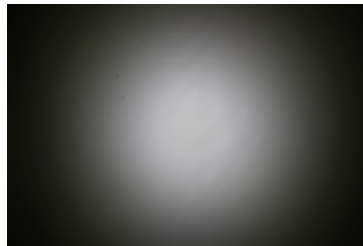
LED XQ-E HI
 FWHM / FWTM 20.0° / 43.0 + 42.0°
 Efficiency 85 %
 Peak intensity 4.6 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED XT-E
 FWHM / FWTM 31.0° / 60.0°
 Efficiency 85 %
 Peak intensity 2.3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED LUXEON Z
 FWHM / FWTM 19.0° / 41.0°
 Efficiency 86 %
 Peak intensity 5.3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

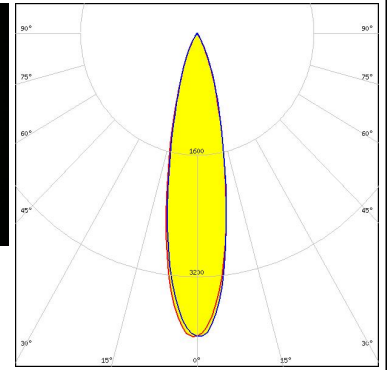
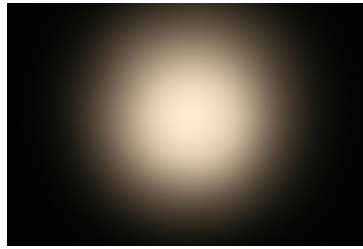


Light distribution files

OPTICAL RESULTS (MEASURED):



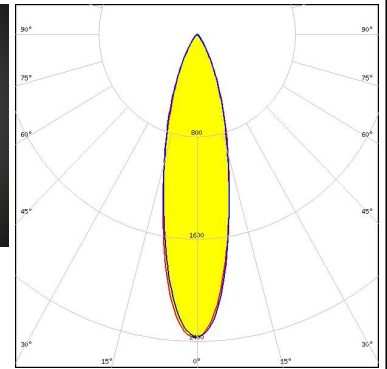
LED LUXEON Z ES
 FWHM / FWTM 23.0° / 48.0°
 Efficiency 87 %
 Peak intensity 4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED NCSxE17A
 FWHM / FWTM 26.0° / 57.0°
 Efficiency 74 %
 Peak intensity 2.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED SFH 4170S
 FWHM / FWTM 14.0° / 38.0°
 Efficiency %
 LEDs/each optic 1
 Light colour/type IR
 Required components:

Light distribution files

OPTICAL RESULTS (MEASURED):

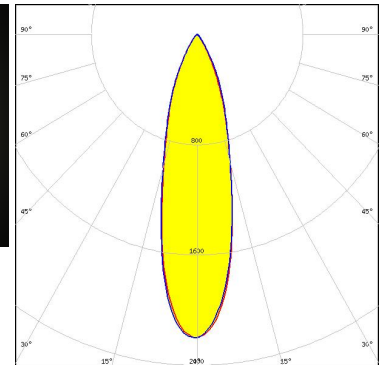
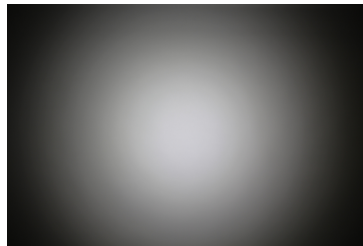
OSRAM
Opto Semiconductors

LED SFH 4180S
FWHM / FWTM 14.0° / 38.0°
Efficiency %
LEDs/each optic 1
Light colour/type IR
Required components:

[Light distribution files](#)

SAMSUNG

LED LH181B
FWHM / FWTM 27.0° / 59.0°
Efficiency 74 %
Peak intensity 2.2 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



[Light distribution files](#)

SHARP

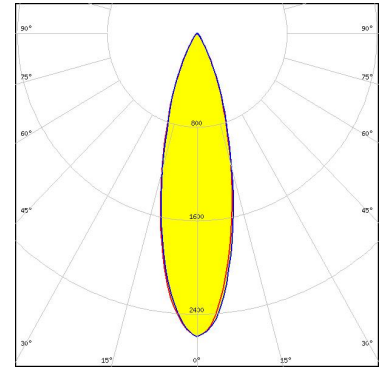
LED Double Dome (GM2BB)
FWHM / FWTM 28.0°
Efficiency 88 %
LEDs/each optic 1
Light colour/type White
Required components:

[Light distribution files](#)

OPTICAL RESULTS (SIMULATED):



LED CSP 2323 (BXCP)
FWHM / FWTM 28.0° / 56.0°
Efficiency 82 %
Peak intensity 2.6 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

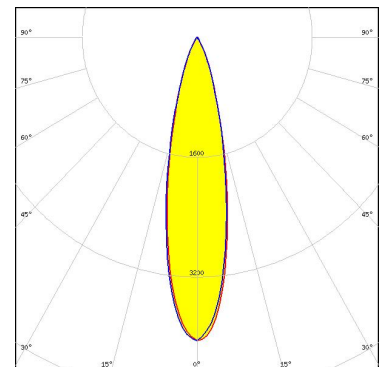


LED XQ-E HD
FWHM / FWTM 27.5° / 63.0°
Efficiency 91 %
Peak intensity 3.1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

Light distribution files

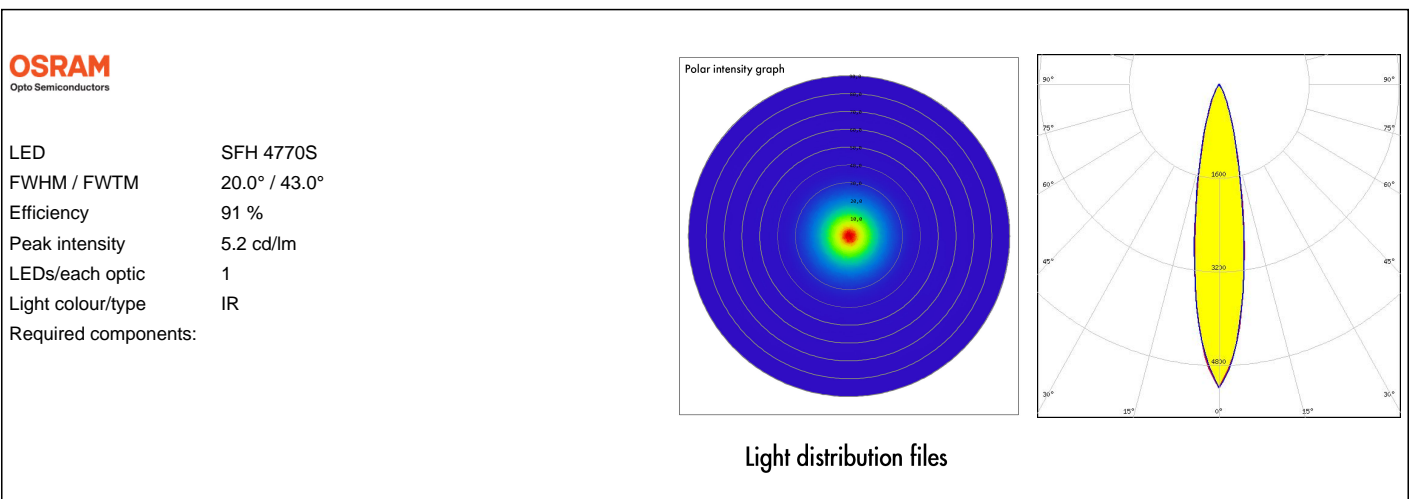
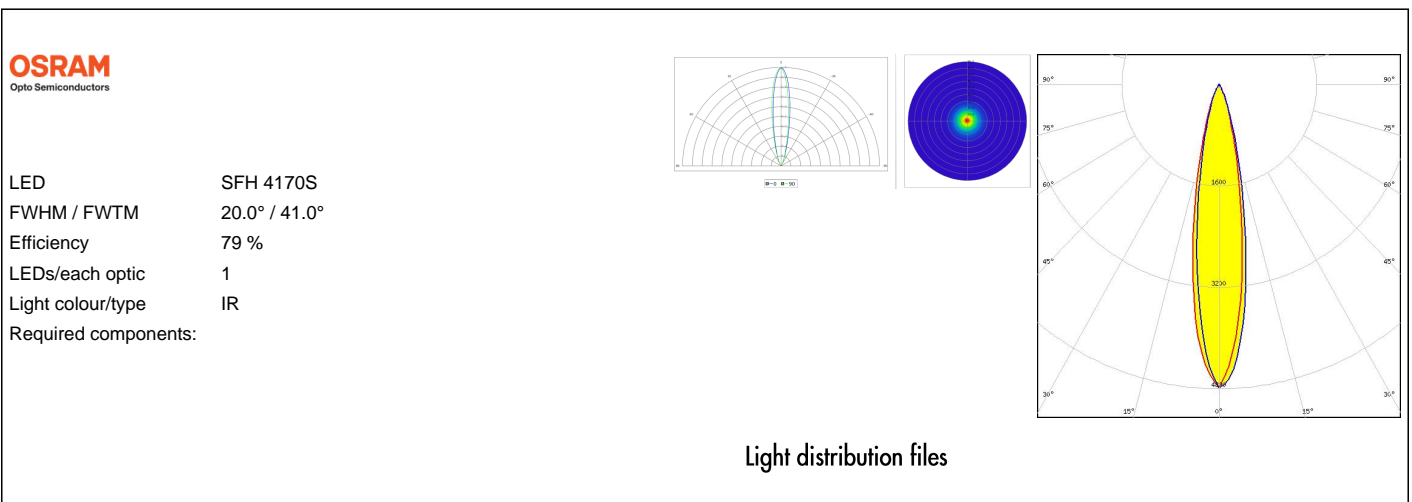
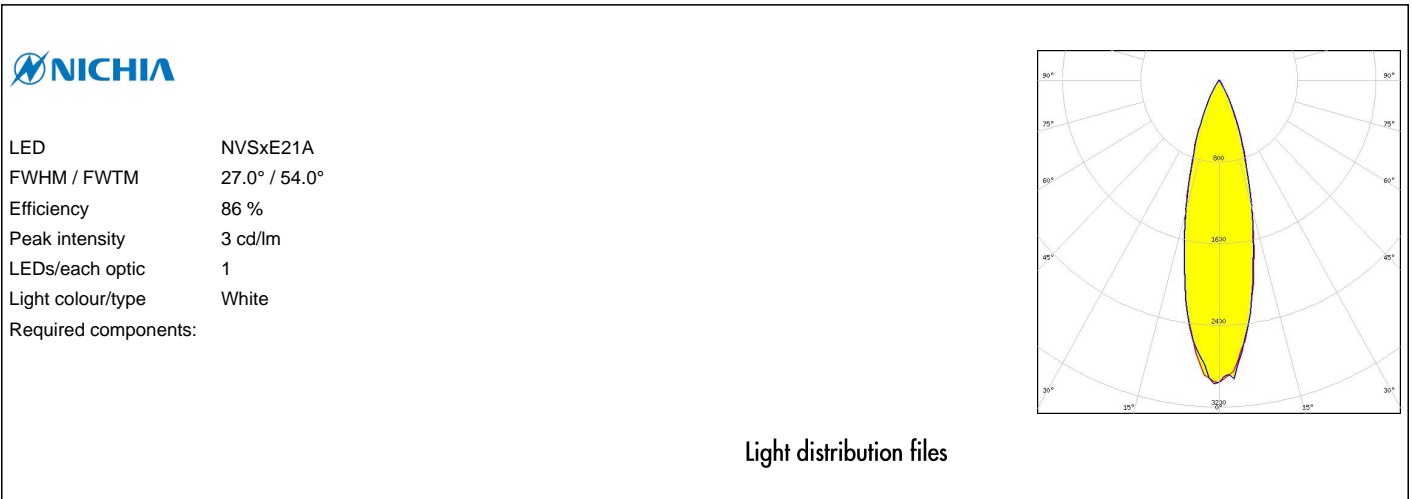


LED LUXEON IR 2720
FWHM / FWTM 23.0° / 47.0°
Efficiency 91 %
LEDs/each optic 1
Light colour/type IR
Required components:



Light distribution files

OPTICAL RESULTS (SIMULATED):



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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