

LISA2-WW-PIN

~45° wide beam. 7.0 mm high variant with location pin installation.

SPECIFICATION:

Dimensions	Ø 9.9
Height	7 mm
Fastening	glue, pin
ROHS compliant	yes ⓘ

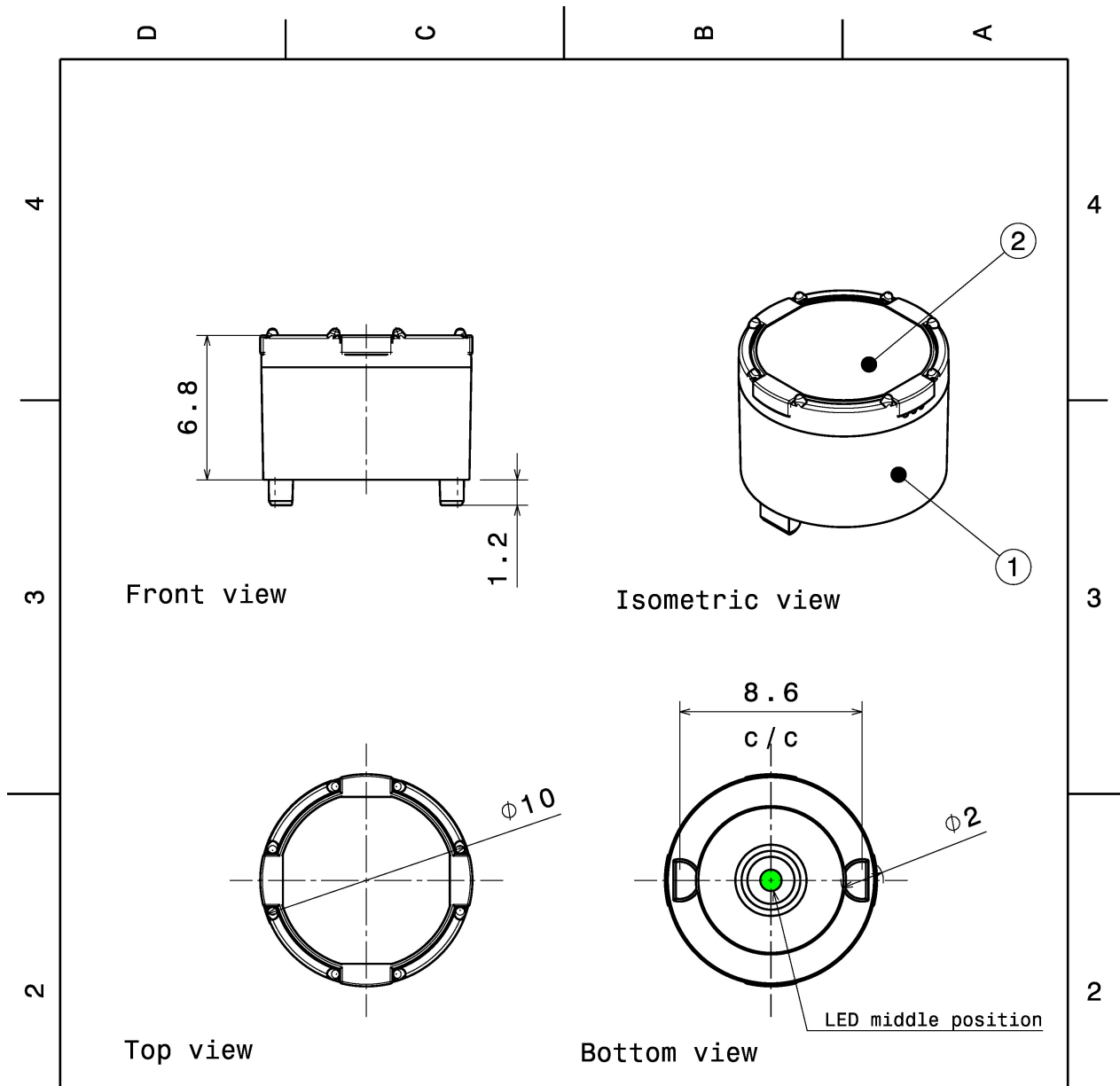


MATERIALS:

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

ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
FP10997_LISA2-WW-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
FIN 24240 SALO
Finland

THIRD ANGLE PROJECTION:

DRAWING TITLE
Lisa2-PIN-XP assembly

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SIZE	PART NUMBER
A4	-

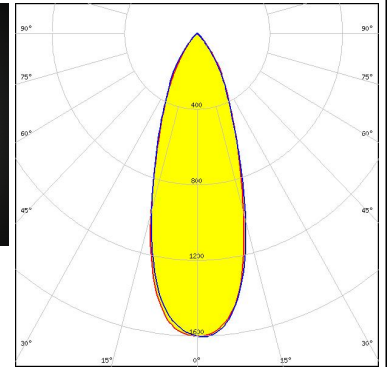
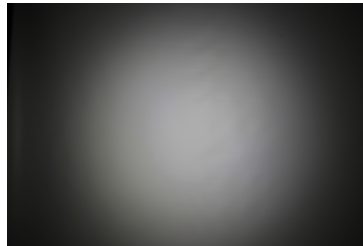
SCALE	4:1	WEIGHT	0,5 g	SHEET	1/1
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See also our general installation guide: www.ledil.com/installation_guide

OPTICAL RESULTS (MEASURED):



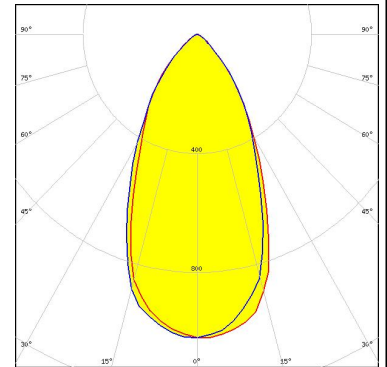
LED XD16
FWHM / FWTM 35.0° / 72.0°
Efficiency 78 %
Peak intensity 1.6 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



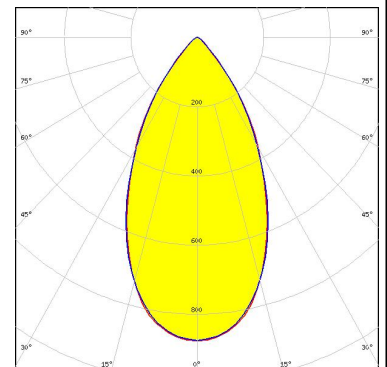
LED XP-E
FWHM / FWTM 42.0° / 78.0°
Efficiency 91 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED XP-G
FWHM / FWTM 54.0° / 88.0°
Efficiency 90 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

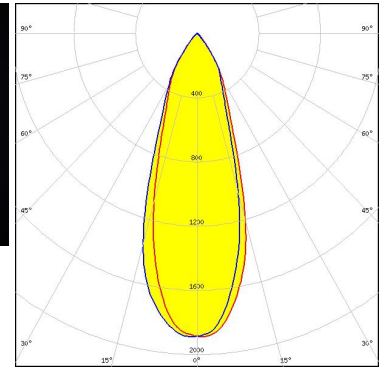
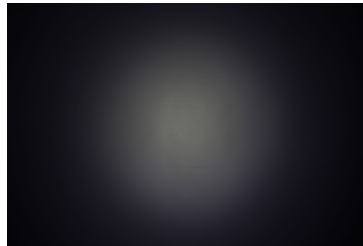


Light distribution files

OPTICAL RESULTS (MEASURED):



LED LUXEON C
FWHM / FWTM 34.0° / 72.0°
Efficiency 88 %
Peak intensity 1.9 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

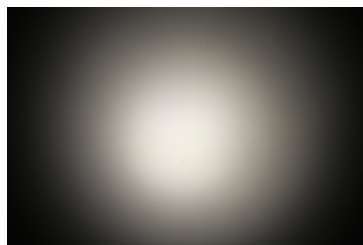


LED LUXEON Rebel ES
FWHM / FWTM 56.0° / 88.0°
Efficiency 93 %
LEDs/each optic 1
Light colour/type White
Required components:

Light distribution files



LED LUXEON Z
FWHM / FWTM 28.0° / 70.0°
Efficiency 87 %
Peak intensity 2.3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

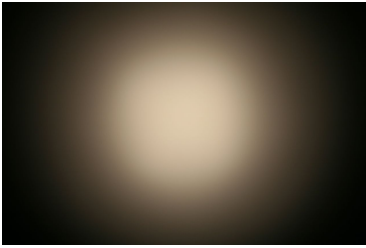
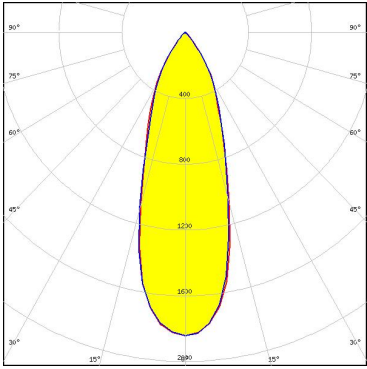


Light distribution files

OPTICAL RESULTS (MEASURED):

LUMILEDS

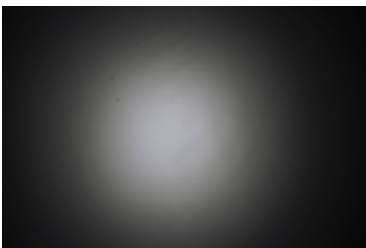
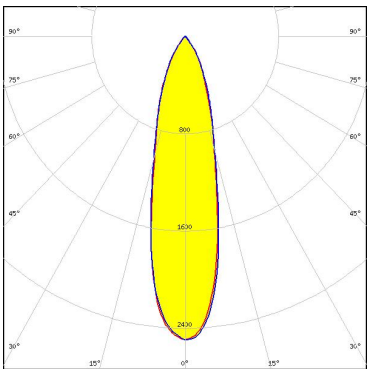
LED	LUXEON Z ES
FWHM / FWTM	35.0° / 73.0°
Efficiency	88 %
Peak intensity	1.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

Light distribution files

NICHIA

LED	NCSxE17A
FWHM / FWTM	25.0° / 62.0°
Efficiency	82 %
Peak intensity	2.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

Light distribution files

OSRAM
Opto Semiconductors

LED	SFH 4170S
FWHM / FWTM	25.0° / 69.0°
Efficiency	%
LEDs/each optic	1
Light colour/type	IR
Required components:	

Light distribution files

OPTICAL RESULTS (MEASURED):

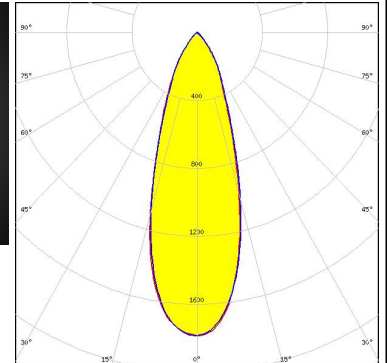
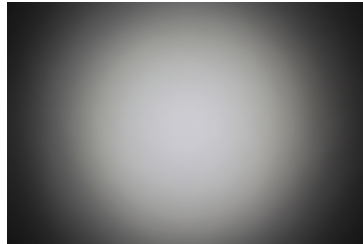
OSRAM
Opto Semiconductors

LED SFH 4180S
FWHM / FWTM 25.0° / 68.0°
Efficiency %
LEDs/each optic 1
Light colour/type IR
Required components:

Light distribution files

SAMSUNG

LED LH181B
FWHM / FWTM 34.0° / 69.0°
Efficiency 81 %
Peak intensity 1.8 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

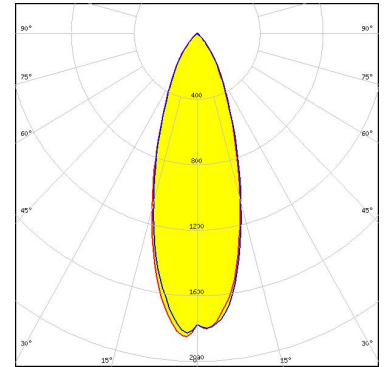


Light distribution files

OPTICAL RESULTS (SIMULATED):



LED CSP 2323 (BXCP)
FWHM / FWTM 34.0° / 72.0°
Efficiency 86 %
Peak intensity 1.9 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

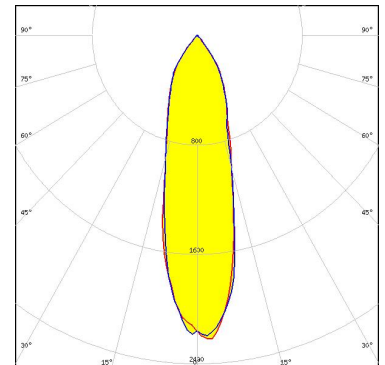


LED XQ-E HD
FWHM / FWTM 72.0° / 99.0°
Efficiency 90 %
Peak intensity 0.7 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

Light distribution files



LED XQ-E HI
FWHM / FWTM 27.0° / 72.0°
Efficiency 89 %
Peak intensity 2.3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

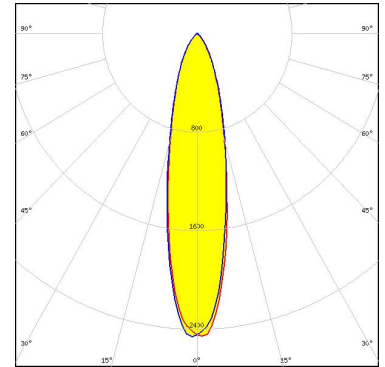


Light distribution files

OPTICAL RESULTS (SIMULATED):



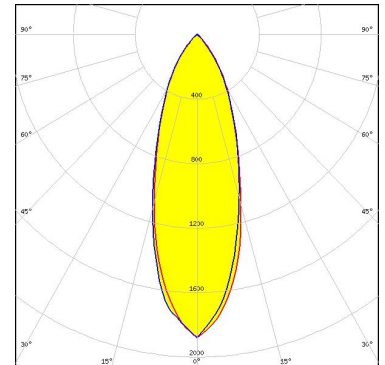
LED LUXEON IR 2720
FWHM / FWTM 24.0° / 60.0°
Efficiency 74 %
LEDs/each optic 1
Light colour/type IR
Required components:



Light distribution files



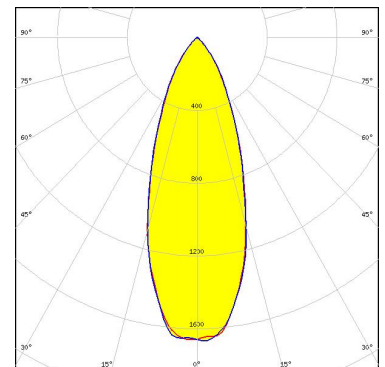
LED LUXEON IR 2720
FWHM / FWTM 35.0° / 75.0°
Efficiency 93 %
LEDs/each optic 1
Light colour/type IR
Required components:



Light distribution files



LED NVSxE21A
FWHM / FWTM 37.0° / 75.0°
Efficiency 88 %
Peak intensity 1.7 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

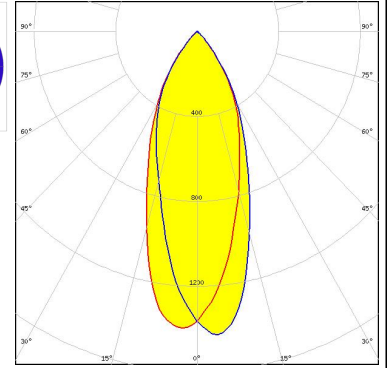
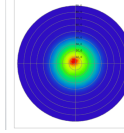
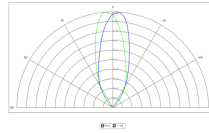


Light distribution files

OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

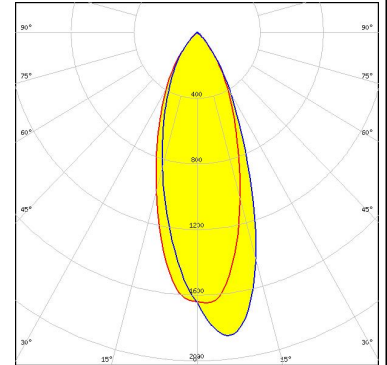
LED SFH 4170S
 FWHM / FWTM 36.0° / 78.0°
 Efficiency 80 %
 LEDs/each optic 1
 Light colour/type IR
 Required components:



Light distribution files

OSRAM
Opto Semiconductors

LED SFH 4770S
 FWHM / FWTM 34.0° / 75.0°
 Efficiency 92 %
 LEDs/each optic 1
 Light colour/type IR
 Required components:



Light distribution files

SHARP

LED Double Dome (GM2BB)
 FWHM / FWTM 60.0°
 Efficiency %
 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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LEDiL Oy

Joensuunkatu 7
FI-24100 SALO
Finland

LEDiL Inc.

228 West Page Street
Suite D
Sycamore IL 60178
USA

Ledil Optics Technology (Shenzhen) Co., Ltd.

405 , Block B
Casic Motor Building
Shenzhen 518057
P.R.CHINA

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