

LISA2-WWW-PIN

~80° wide beam. 7.0 mm high variant with location pin installation.

SPECIFICATION:

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

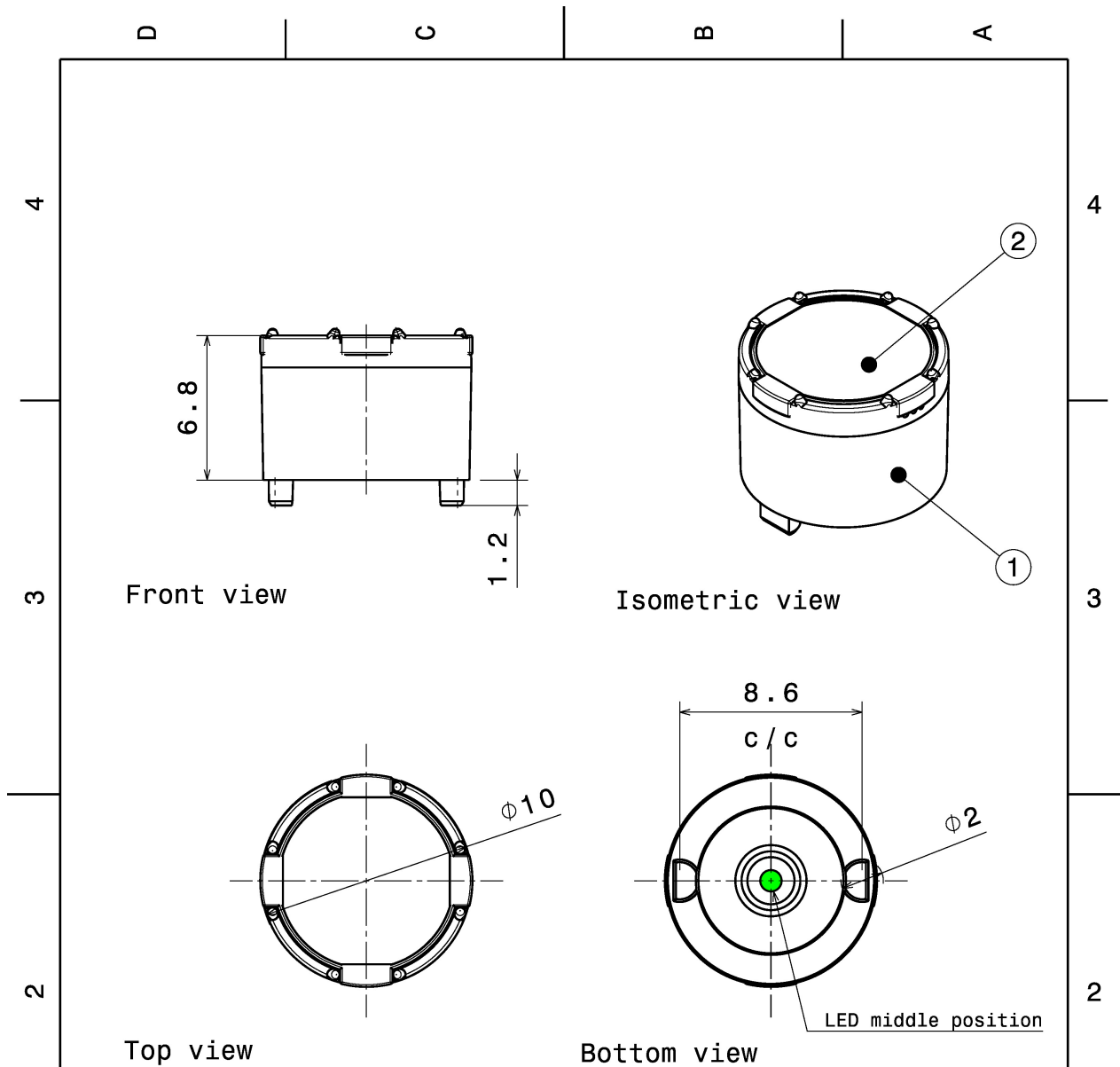


MATERIALS:

Component	Type	Material	Colour	Finish	Length
LISA2-WWW	Single lens	PMMA	clear		9.9
LISA2-HLD-PIN	Holder	PC	black		9.9

ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
FP11429_LISA2-WWW-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
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Finland

THIRD ANGLE PROJECTION:

DRAWING TITLE
Lisa2-PIN-XP assembly

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SIZE	PART NUMBER
A4	-

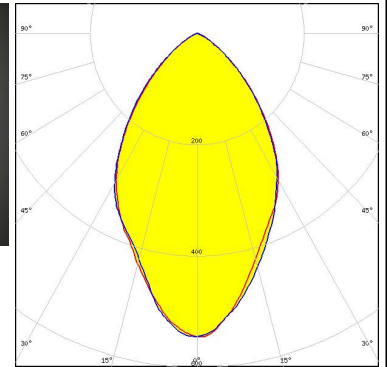
SCALE	4:1	WEIGHT	0,5 g	SHEET	1/1
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See also our general installation guide: www.ledil.com/installation_guide

OPTICAL RESULTS (MEASURED):



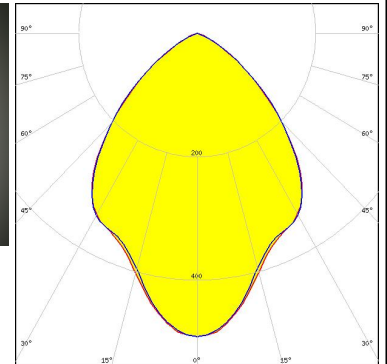
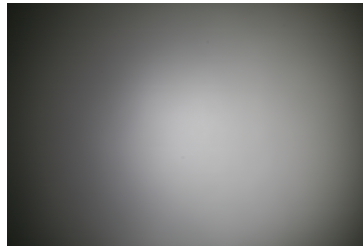
LED XD16
FWHM / FWTM 66.0° / 110.0°
Efficiency 66 %
Peak intensity 0.6 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



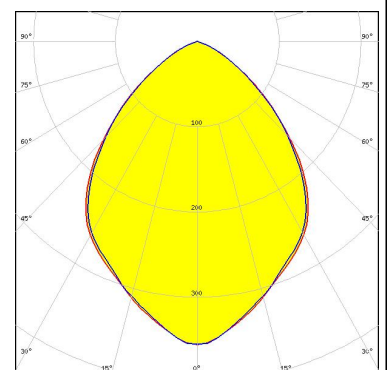
LED XP-E
FWHM / FWTM 84.0°
Efficiency 77 %
Peak intensity 0.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED XP-G
FWHM / FWTM 86.0° / 126.0°
Efficiency 75 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

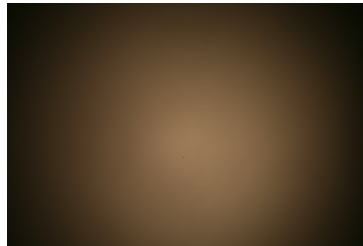


Light distribution files

OPTICAL RESULTS (MEASURED):



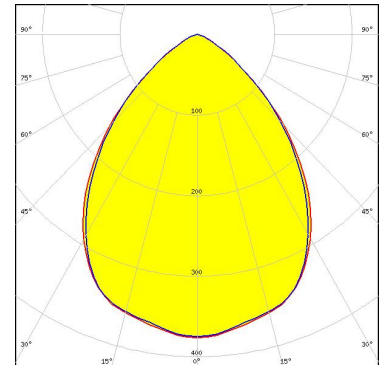
LED LUXEON A
FWHM / FWTM 86.0° / 122.0°
Efficiency 72 %
Peak intensity 0.3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



[Light distribution files](#)



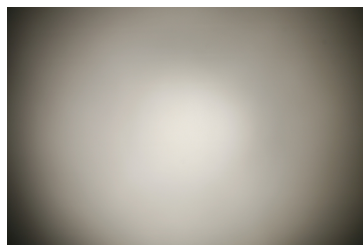
LED LUXEON Rebel ES
FWHM / FWTM 88.0°
Efficiency %
LEDs/each optic 1
Light colour/type White
Required components:



[Light distribution files](#)



LED LUXEON Z
FWHM / FWTM 73.0° / 106.0°
Efficiency 75 %
Peak intensity 0.6 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

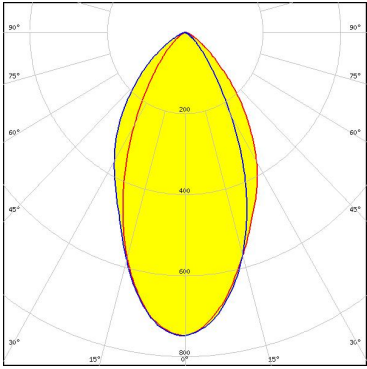



[Light distribution files](#)

OPTICAL RESULTS (MEASURED):

NICHIA

LED NVSxE21A
FWHM / FWTM 53.0° / 98.0°
Efficiency 70 %
Peak intensity 0.8 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

OSRAM
Opto Semiconductors

LED SFH 4170S
FWHM / FWTM 58.0° / 114.0°
Efficiency %
LEDs/each optic 1
Light colour/type IR
Required components:

Light distribution files

OSRAM
Opto Semiconductors

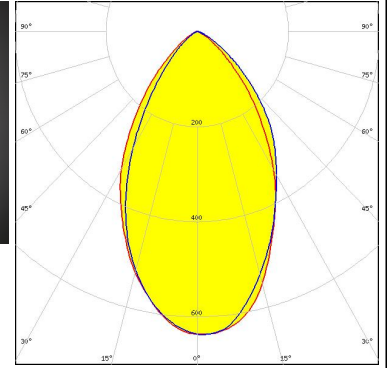
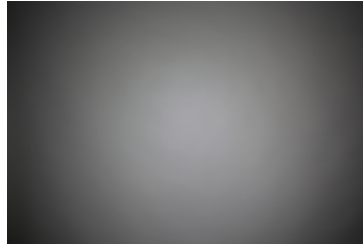
LED SFH 4180S
FWHM / FWTM 57.0° / 112.0°
Efficiency %
LEDs/each optic 1
Light colour/type IR
Required components:

Light distribution files

OPTICAL RESULTS (MEASURED):

SAMSUNG

LED LH181B
FWHM / FWTM 62.0° / 104.0°
Efficiency 72 %
Peak intensity 0.6 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

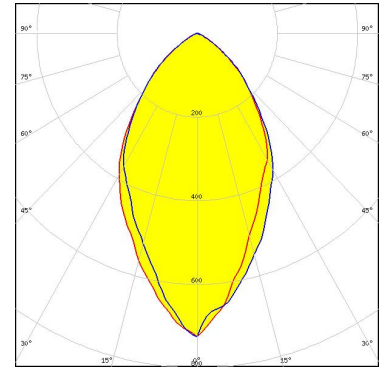


Light distribution files

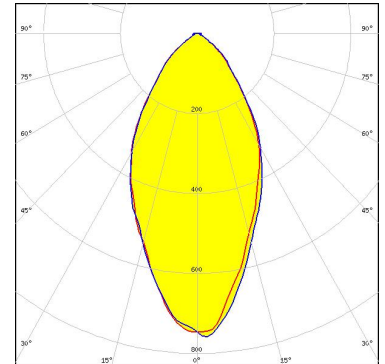
OPTICAL RESULTS (SIMULATED):



LED CSP 2323 (BXCP)
FWHM / FWTM 61.0° / 111.0 + 112.0°
Efficiency 83 %
Peak intensity 0.7 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



LED XB-D
FWHM / FWTM 53.0° / 104.0°
Efficiency 73 %
Peak intensity 0.8 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



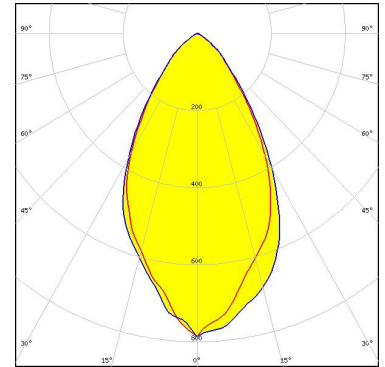
LED XQ-E HD
FWHM / FWTM 70.0° / 126.0°
Efficiency 81 %
Peak intensity 0.6 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

Light distribution files

OPTICAL RESULTS (SIMULATED):



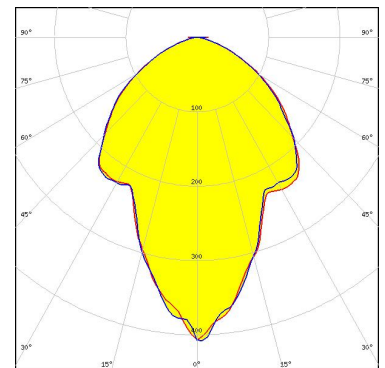
LED LUXEON IR 2720
FWHM / FWTM 58.0° / 101.0°
Efficiency 76 %
Peak intensity 0.8 cd/lm
LEDs/each optic 1
Light colour/type IR
Required components:



Light distribution files



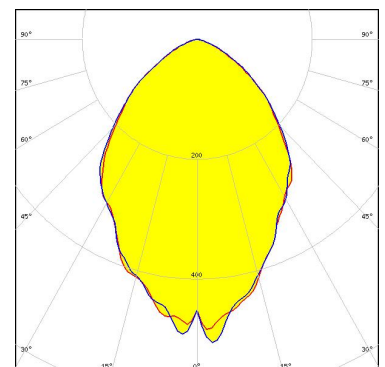
LED LUXEON SunPlus 20 Line (150 deg)
FWHM / FWTM 84.0° / 140.0°
Efficiency 73 %
Peak intensity 0.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED LUXEON TX
FWHM / FWTM 80.0° / 130.0°
Efficiency 83 %
Peak intensity 0.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

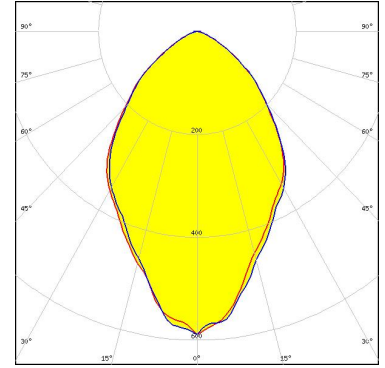


Light distribution files

OPTICAL RESULTS (SIMULATED):



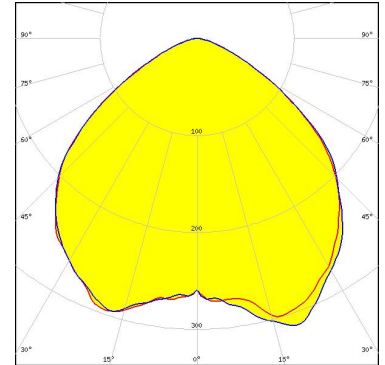
LED SST-20
 FWHM / FWTM 73.0° / 122.0°
 Efficiency 86 %
 Peak intensity 0.6 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



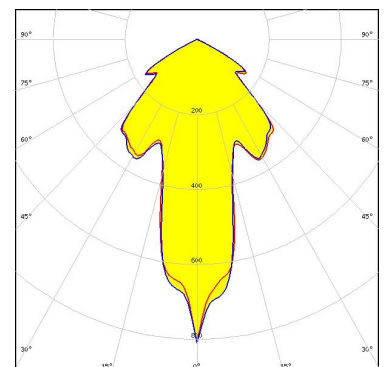
LED NVSW519A
 FWHM / FWTM 104.0° / 140.0°
 Efficiency 76 %
 Peak intensity 0.3 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



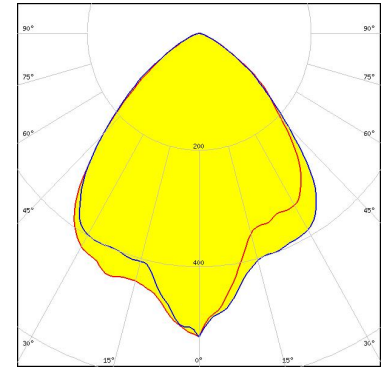
LED OSOLON Pure 1414
 FWHM / FWTM 28.0° / 124.0°
 Efficiency 90 %
 Peak intensity 0.8 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

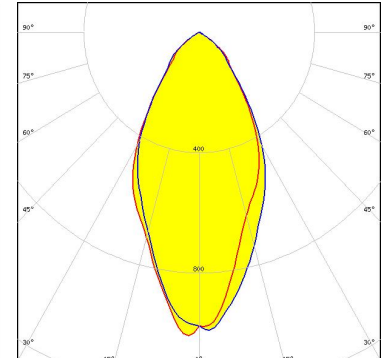
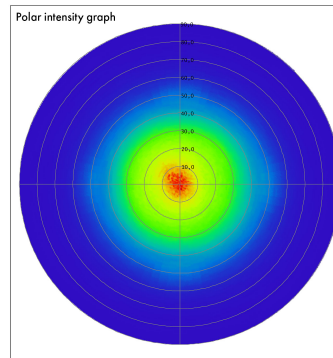
LED OSLON SSL 120
FWHM / FWTM 86.0° / 123.0°
Efficiency 87 %
Peak intensity 0.5 cd/lm
LEDs/each optic 1
Light colour/type Amber
Required components:



Light distribution files

OSRAM
Opto Semiconductors

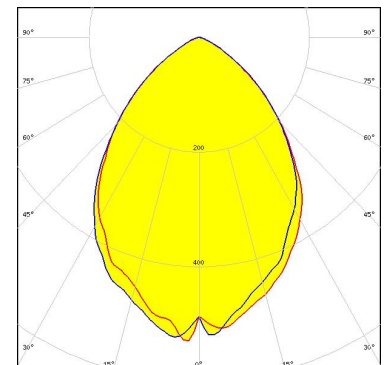
LED SFH 4715AS
FWHM / FWTM 52.0° / 102.0°
Efficiency 88 %
LEDs/each optic 1
Light colour/type IR
Required components:



Light distribution files


SAMSUNG

LED LM301B
FWHM / FWTM 80.0° / 122.0°
Efficiency 86 %
Peak intensity 0.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

OPTICAL RESULTS (SIMULATED):

 SEOL SEMICONDUCTOR	
LED	Z5
FWHM / FWTM	70.0°
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:

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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