

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 ⓘ

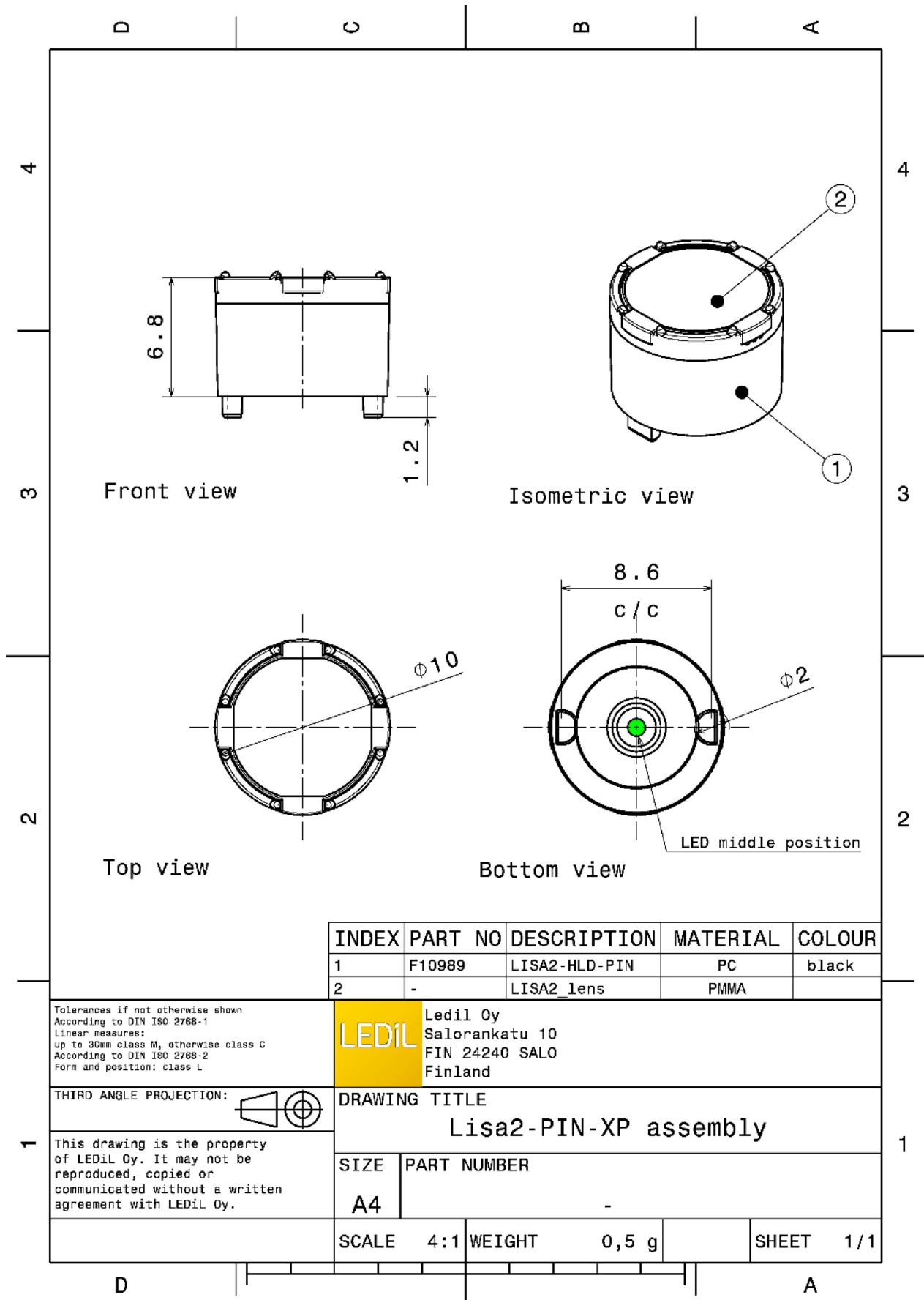


MATERIALS:

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

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
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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

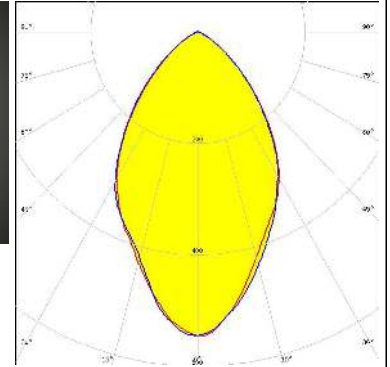
OPTICAL RESULTS (MEASURED):

CREE LED

LED XB-D
 FWHM / FWTM 73.0° / 116.0°
 Efficiency 71 %
 LEDs/each optic 1
 Light colour White
 Required components:

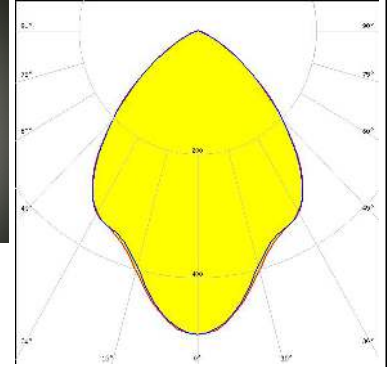
CREE LED

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



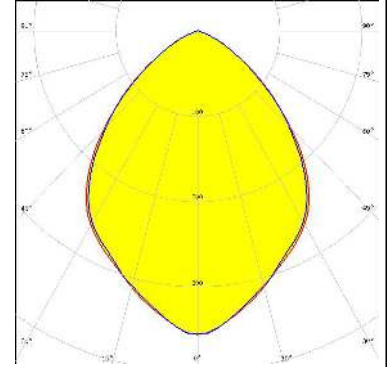
CREE LED

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

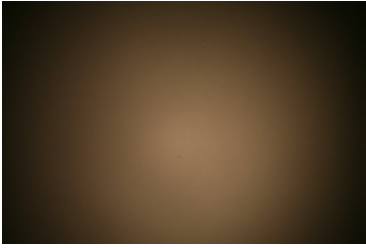
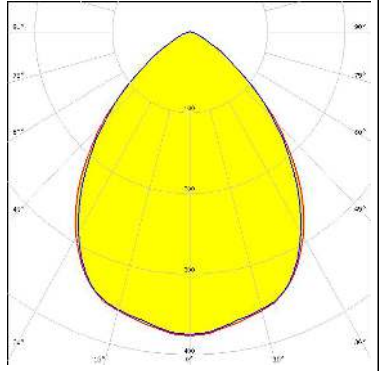

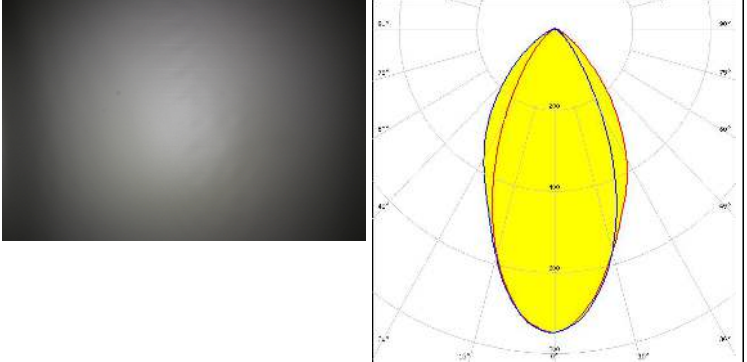


CREE LED

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



OPTICAL RESULTS (MEASURED):

<p>LUMILEDS</p> <p>LED LUXEON A</p> <p>FWHM / FWTM 86.0° / 122.0°</p> <p>Efficiency 72 %</p> <p>Peak intensity 0.3 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	
<p>LUMILEDS</p> <p>LED LUXEON Rebel ES</p> <p>FWHM / FWTM 88.0°</p> <p>Efficiency %</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	
<p>LUMILEDS</p> <p>LED LUXEON Z</p> <p>FWHM / FWTM 73.0° / 106.0°</p> <p>Efficiency 75 %</p> <p>Peak intensity 0.6 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	
<p>NICHIA</p> <p>LED NVSxE21A</p> <p>FWHM / FWTM 53.0° / 98.0°</p> <p>Efficiency 70 %</p> <p>Peak intensity 0.8 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	

OPTICAL RESULTS (MEASURED):

OSRAM

Opto Semiconductors

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

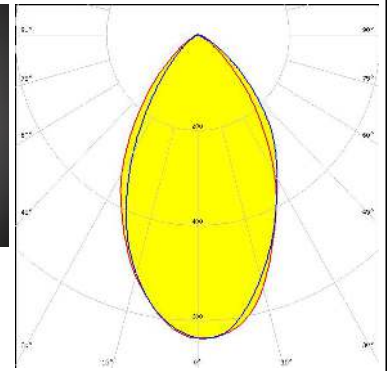
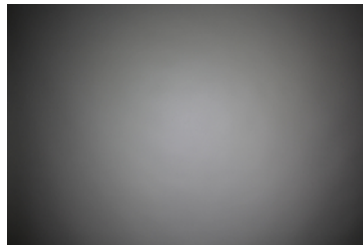
OSRAM

Opto Semiconductors

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

SAMSUNG

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



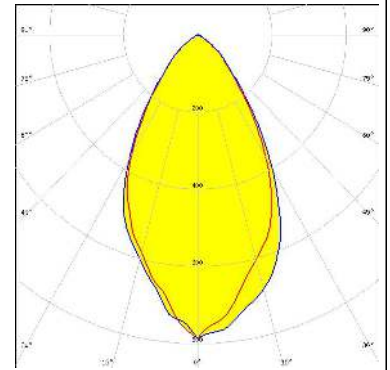
OPTICAL RESULTS (SIMULATED):



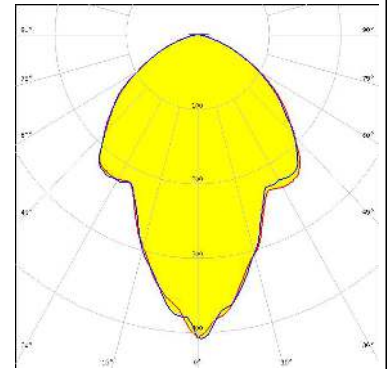
LED XQ-E HD
 FWHM / FWTM 70.0° / 126.0°
 Efficiency 81 %
 Peak intensity 0.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



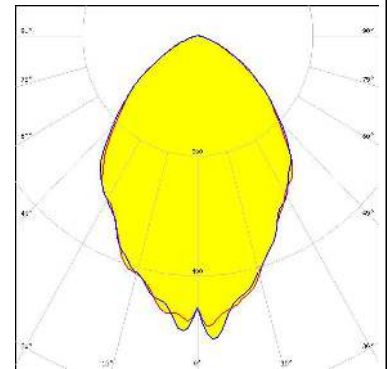
LED LUXEON IR 2720
 FWHM / FWTM 58.0° / 101.0°
 Efficiency 76 %
 Peak intensity 0.8 cd/lm
 LEDs/each optic 1
 Light colour IR
 Required components:



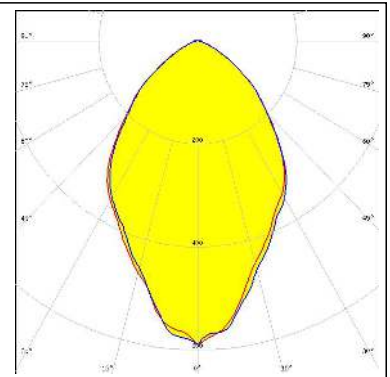
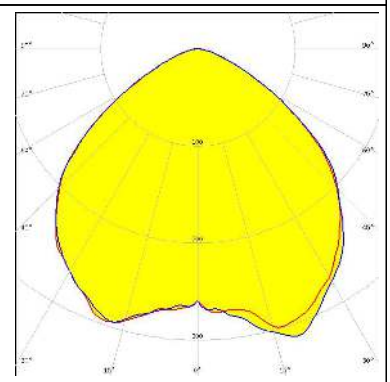
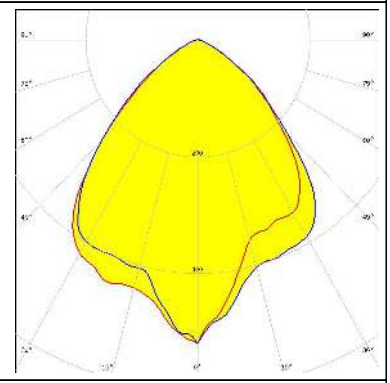
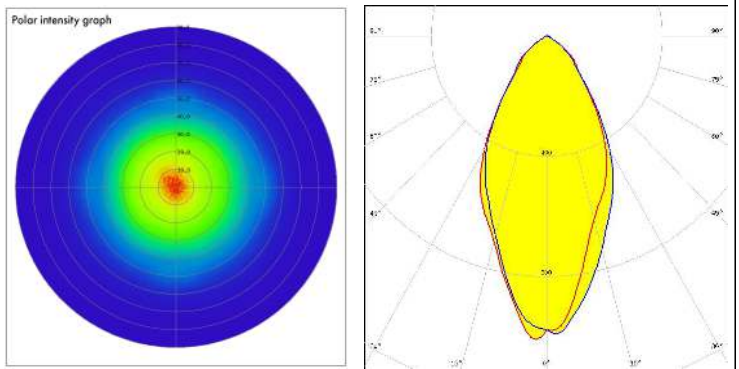
LED LUXEON SunPlus 20 Line (150 deg)
 FWHM / FWTM 84.0° / 140.0°
 Efficiency 73 %
 Peak intensity 0.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



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



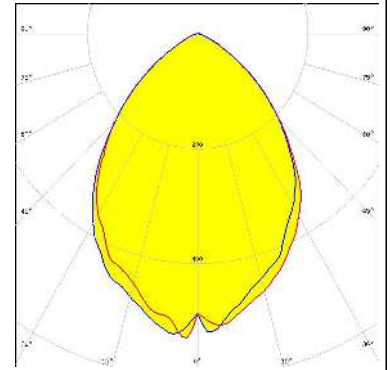
OPTICAL RESULTS (SIMULATED):

<p>LUMINUS</p> <p>LED SST-20 FWHM / FWTM 73.0° / 122.0° Efficiency 86 % Peak intensity 0.6 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	
<p>NICHIA</p> <p>LED NVSW519A FWHM / FWTM 104.0° / 140.0° Efficiency 76 % Peak intensity 0.3 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	
<p>OSRAM <small>Opto Semiconductors</small></p> <p>LED OSLON SSL 120 FWHM / FWTM 86.0° / 123.0° Efficiency 87 % Peak intensity 0.5 cd/lm LEDs/each optic 1 Light colour Amber Required components:</p>	
<p>OSRAM <small>Opto Semiconductors</small></p> <p>LED SFH 4715AS FWHM / FWTM 52.0° / 102.0° Efficiency 88 % LEDs/each optic 1 Light colour IR Required components:</p>	<p>Polar intensity graph</p> 

OPTICAL RESULTS (SIMULATED):

SAMSUNG

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



LED Z5
FWHM / FWTM 70.0°
Efficiency %
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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