

LISA2-WW-PIN

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

TECHNICAL SPECIFICATIONS:

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

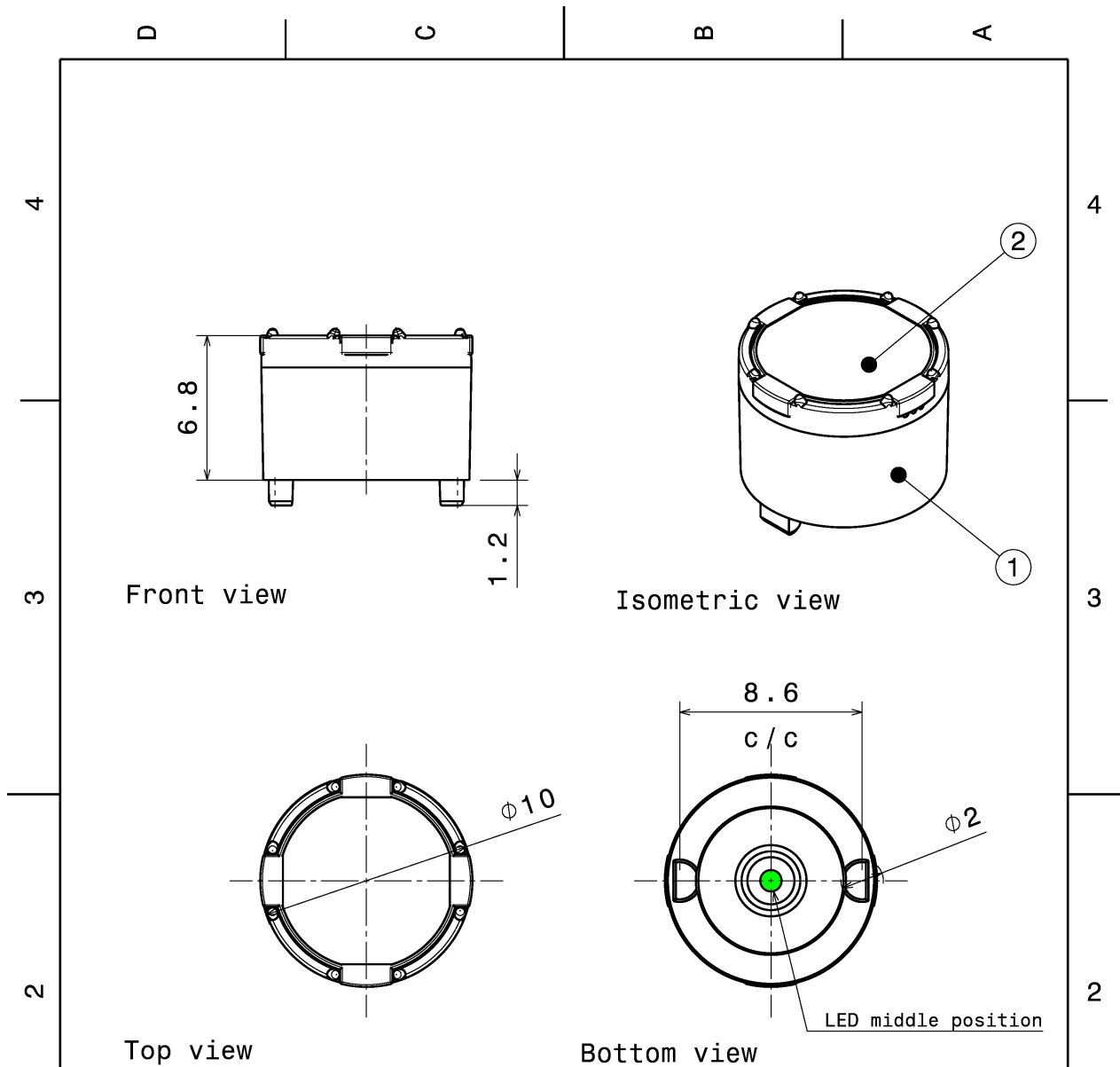


MATERIAL SPECIFICATIONS:

Component	Type	Material	Colour	Finish
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
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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

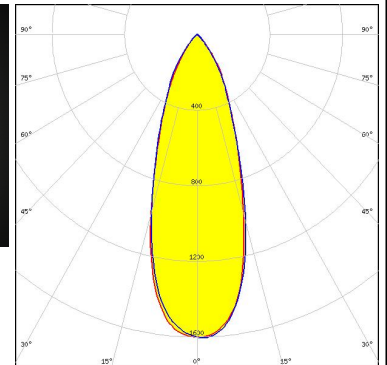
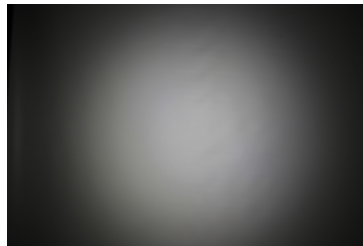
PHOTOMETRIC DATA (MEASURED):

CREE LED

LED XB-D
 FWHM / FWTM 38.0°
 Efficiency 85 %
 Peak intensity 1.3 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:

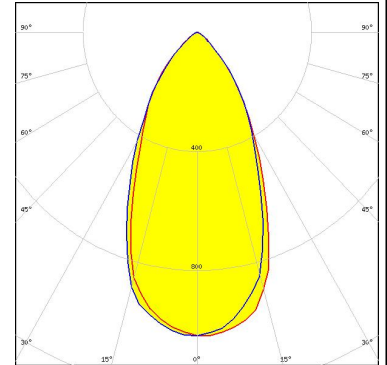
CREE LED

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



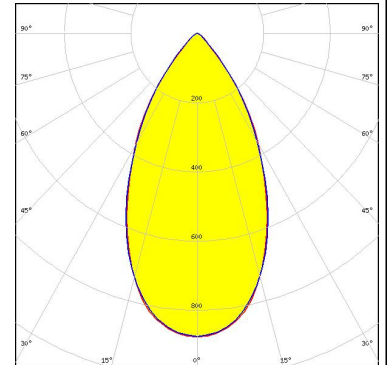
CREE LED

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



CREE LED

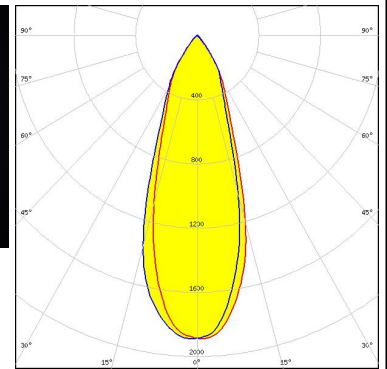
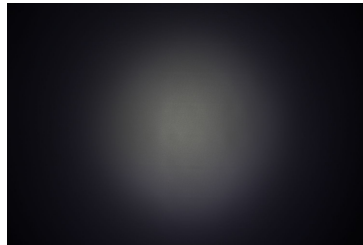
LED XP-G
 FWHM / FWTM 54.0° / 88.0°
 Efficiency 90 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



PHOTOMETRIC DATA (MEASURED):

LUMILEDS

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

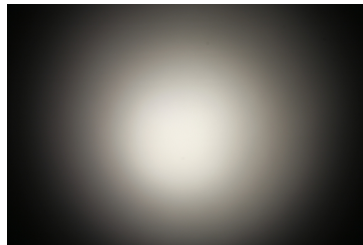


LUMILEDS

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

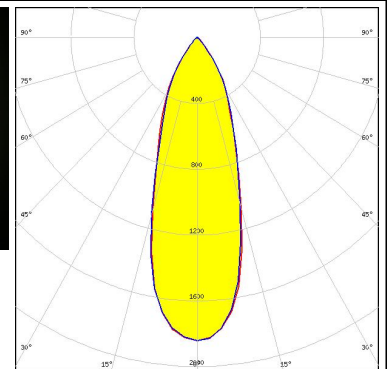
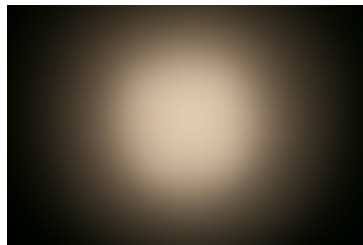
LUMILEDS

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

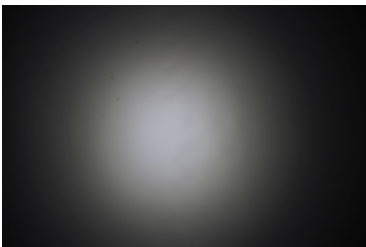
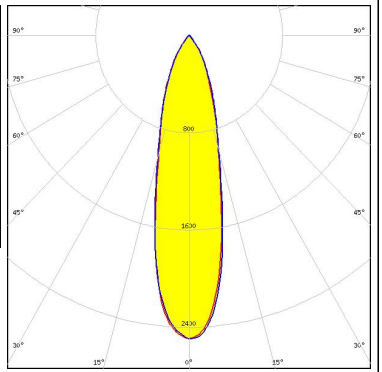
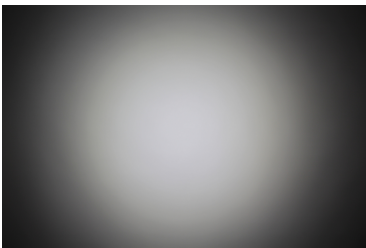
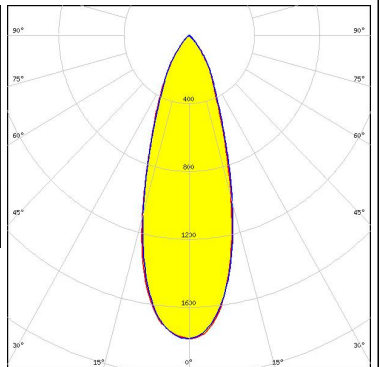


LUMILEDS

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



PHOTOMETRIC DATA (MEASURED):

<p>NICHIA</p> <p>LED NCSxE17A FWHM / FWTM 25.0° / 62.0° Efficiency 82 % Peak intensity 2.5 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		
<p>OSRAM Opto Semiconductors</p> <p>LED SFH 4170S FWHM / FWTM 25.0° / 69.0° Efficiency % LEDs/each optic 1 Light colour IR Required components:</p>		
<p>OSRAM Opto Semiconductors</p> <p>LED SFH 4180S FWHM / FWTM 25.0° / 68.0° Efficiency % LEDs/each optic 1 Light colour IR Required components:</p>		
<p>SAMSUNG</p> <p>LED LH181B FWHM / FWTM 34.0° / 69.0° Efficiency 81 % Peak intensity 1.8 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		

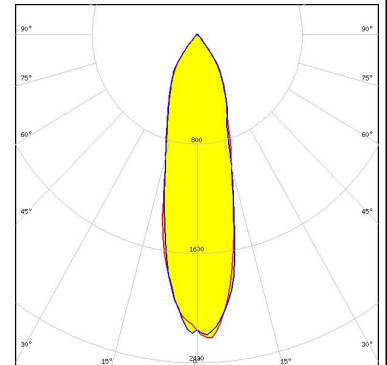
PHOTOMETRIC DATA (SIMULATED):



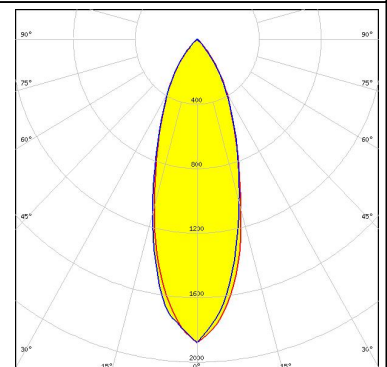
LED XQ-E HD
 FWHM / FWTM 72.0° / 99.0°
 Efficiency 90 %
 Peak intensity 0.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



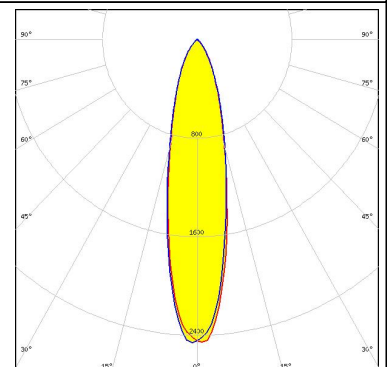
LED XQ-E HI
 FWHM / FWTM 27.0° / 72.0°
 Efficiency 89 %
 Peak intensity 2.3 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



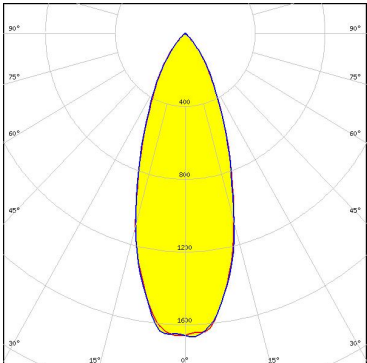
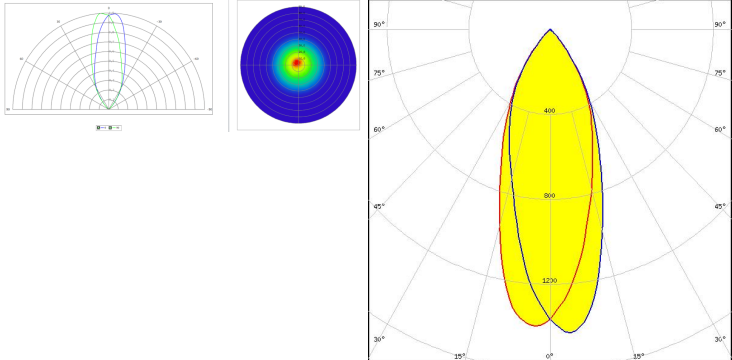
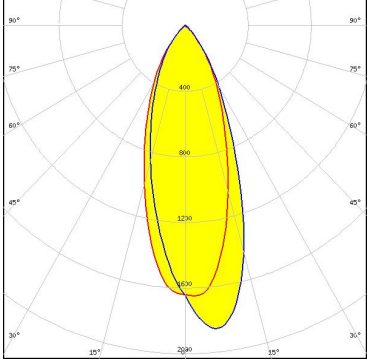
LED LUXEON IR 2720
 FWHM / FWTM 35.0° / 75.0°
 Efficiency 93 %
 LEDs/each optic 1
 Light colour IR
 Required components:



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



PHOTOMETRIC DATA (SIMULATED):

<p>NICHIA</p> <p>LED: NVSxE21A FWHM / FWTM: 37.0° / 75.0° Efficiency: 88 % Peak intensity: 1.7 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>	
<p>OSRAM Opto Semiconductors</p> <p>LED: SFH 4170S FWHM / FWTM: 36.0° / 78.0° Efficiency: 80 % LEDs/each optic: 1 Light colour: IR Required components:</p>	
<p>OSRAM Opto Semiconductors</p> <p>LED: SFH 4770S FWHM / FWTM: 34.0° / 75.0° Efficiency: 92 % Peak intensity: 1.9 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>	
<p>SHARP</p> <p>LED: Double Dome (GM2BB) FWHM / FWTM: 60.0° Efficiency: % LEDs/each optic: 1 Light colour: White Required components:</p>	

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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