

## LISA2-O-90-PIN

~20° x 50° oval beam. Variant with beam direction rotated 90°. 6.8 mm high variant with location pin installation.

### TECHNICAL SPECIFICATIONS:

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

### MATERIAL SPECIFICATIONS:

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

### ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
FP11851_LISA2-O-90-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 Oy  
Salorankatu 10  
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THIRD ANGLE PROJECTION:

DRAWING TITLE  
**Lisa2-PIN-XP assembly**

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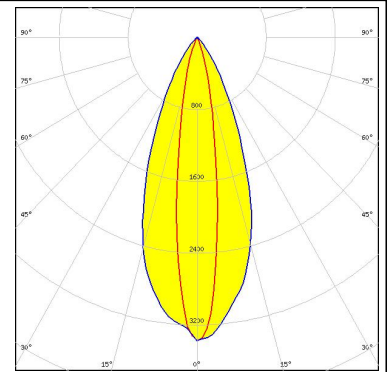
SIZE	PART NUMBER
A4	-

SCALE	WEIGHT	SHEET
4:1	0,5 g	1/1

**PHOTOMETRIC DATA (MEASURED):**



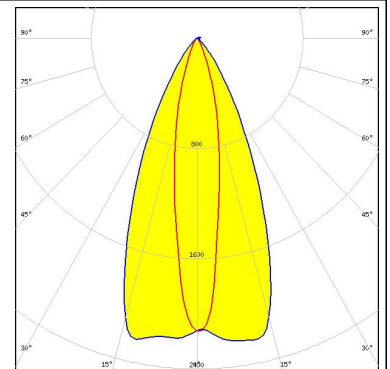
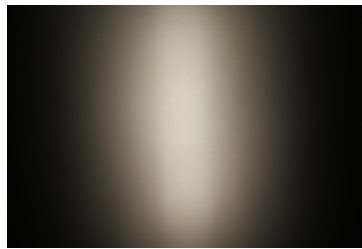
LED XP-E  
FWHM 48.0 + 18.0°  
Efficiency 83 %  
LEDs/each optic 1  
Light colour White  
Required components:



LED XP-G  
FWHM 48.0 + 18.0°  
Efficiency 86 %  
LEDs/each optic 1  
Light colour White  
Required components:



LED LUXEON Z ES  
FWHM 18.0 + 49.0°  
Efficiency 80 %  
Peak intensity 2.2 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



LED SFH 4170S  
FWHM 13.0 + 45.0°  
Efficiency %  
LEDs/each optic 1  
Light colour IR  
Required components:

## PHOTOMETRIC DATA (MEASURED):

**OSRAM**  
Opto Semiconductors

LED	SFH 4180S
FWHM	11.0 + 45.0°
Efficiency	%
LEDs/each optic	1
Light colour	IR
Required components:	

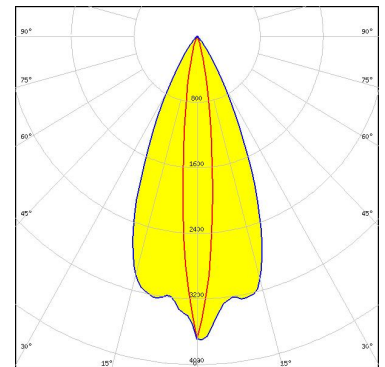
#### PHOTOMETRIC DATA (SIMULATED):

#### CREE

LED XQ-E HD  
FWHM 40.0 + 13.0°  
Efficiency 86 %  
Peak intensity 3.5 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:

#### CREE

LED XQ-E HI  
FWHM 46.0 + 11.0°  
Efficiency 83 %  
Peak intensity 3.8 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



#### SHARP

LED Double Dome (GM2BB)  
FWHM 48.0 + 20.0°  
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:

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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