

## LISA2-O-PIN

~45° x 20° oval beam. 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 

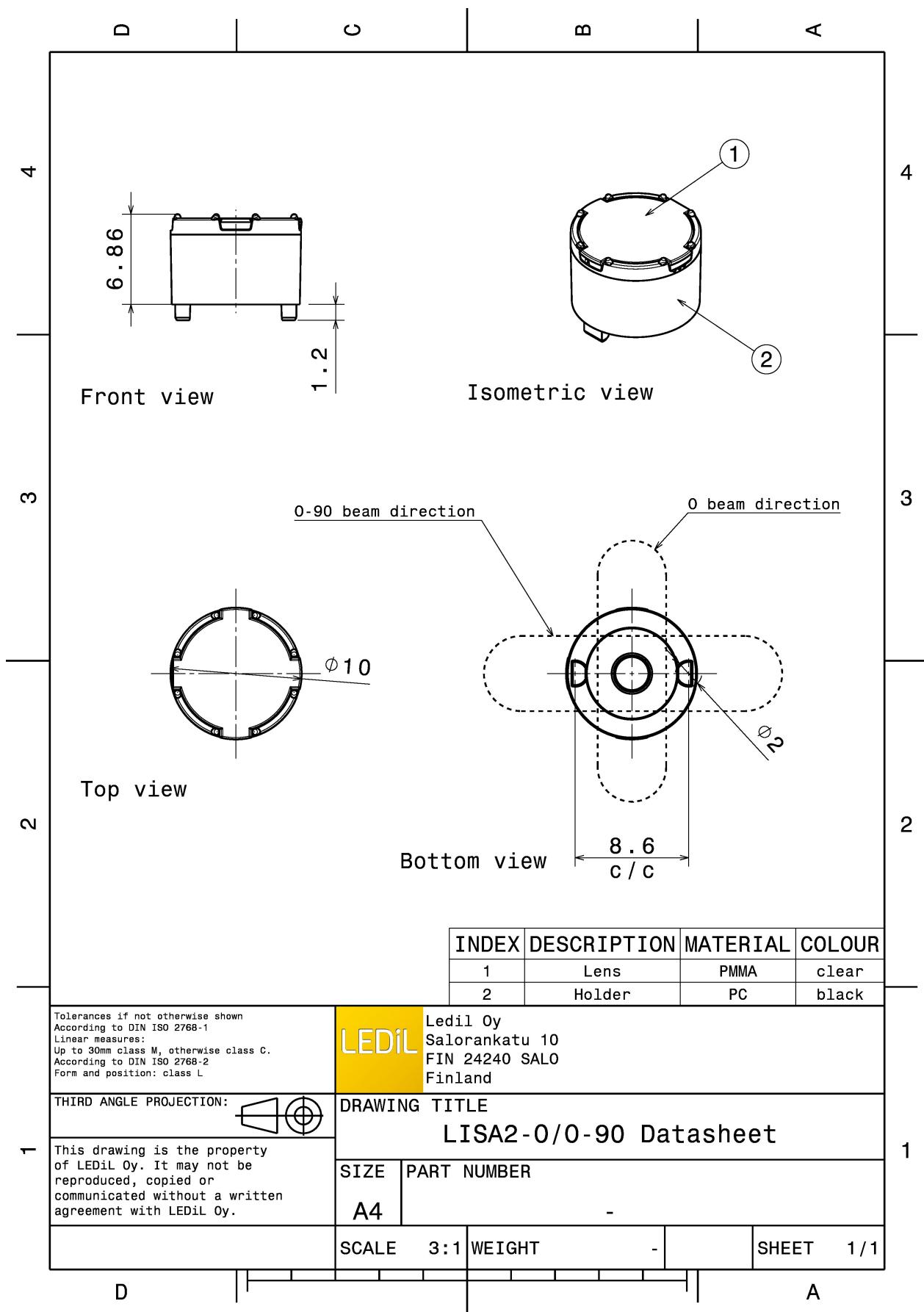
LEDiL®

### 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)
FP11125_LISA2-O-PIN	2000	300	100	1.4
» Box size:				



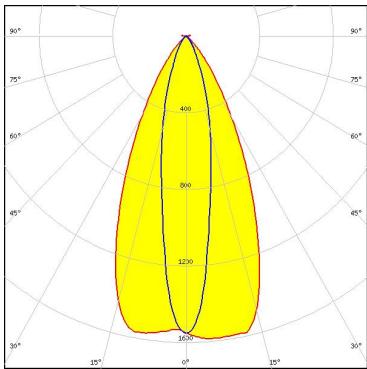
See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

## PHOTOMETRIC DATA (MEASURED):



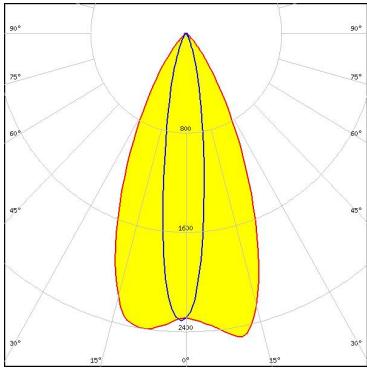
LED	XD16
FWHM / FWTM	50.0 + 20.0° / 80.0 + 51.0°
Efficiency	66 %
Peak intensity	1.6 cd/lm
LEDs/each optic	1
Light colour	White

Required components:



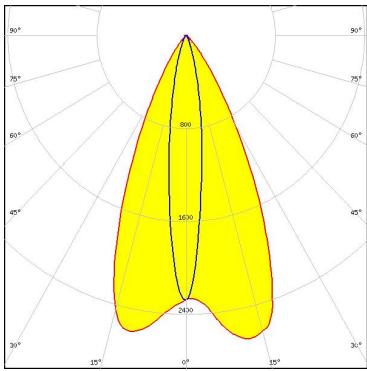
LED	XP-E
FWHM / FWTM	18.0 + 48.0°
Efficiency	83 %
Peak intensity	2.3 cd/lm
LEDs/each optic	1
Light colour	White

Required components:



LED	XP-G
FWHM / FWTM	46.0 + 24.0°
Efficiency	86 %
LEDs/each optic	1
Light colour	White

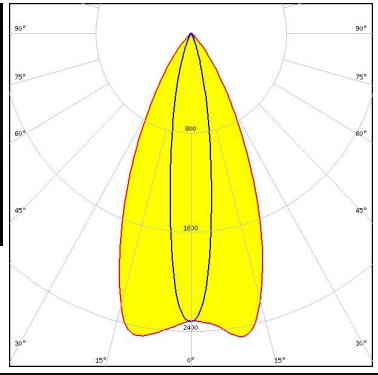
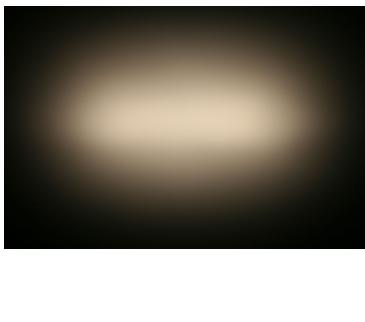
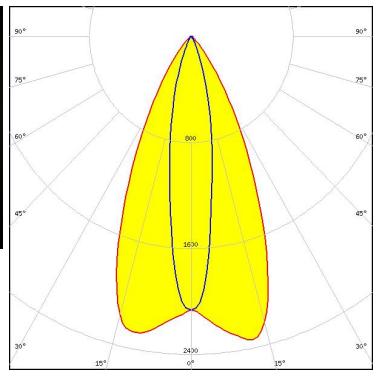
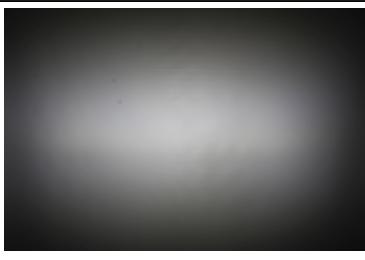
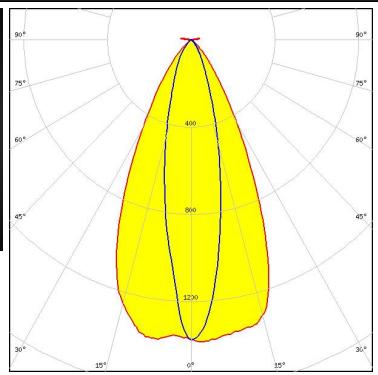
Required components:



LED	XQ-E HI
FWHM / FWTM	15.0 + 52.0° / 37.0 + 76.0°
Efficiency	77 %
Peak intensity	2.7 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

## PHOTOMETRIC DATA (MEASURED):

	<b>LUMILEDS</b>		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON C 50.0 + 17.0° / 78.0 + 38.0° 81 % 2.5 cd/lm 1 White		
	<b>NICHIA</b>		
	<b>OSRAM</b> Opto Semiconductors		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	SFH 4170S 46.0 + 14.0° / 74.0 + 39.0° % 1.4 cd/lm 1 White		

## PHOTOMETRIC DATA (MEASURED):

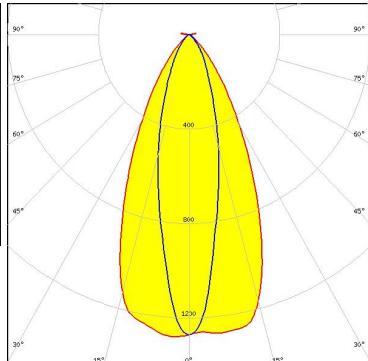
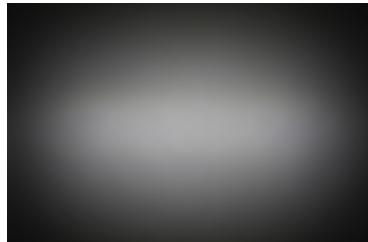
### OSRAM

Opto Semiconductors

LED SFH 4180S  
FWHM / FWTM 46.0 + 13.0° / 72.0 + 37.0°  
Efficiency %  
LEDs/each optic 1  
Light colour IR  
Required components:

### SAMSUNG

LED LH181B  
FWHM / FWTM 50.0 + 24.0° / 84.0 + 63.0°  
Efficiency 65 %  
Peak intensity 1.3 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



### SHARP

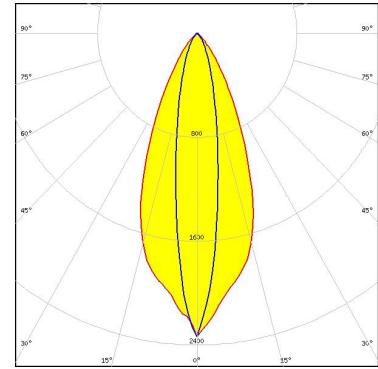
LED Double Dome (GM2BB)  
FWHM / FWTM 10.0 + 32.0°  
Efficiency %  
LEDs/each optic 1  
Light colour White  
Required components:

## PHOTOMETRIC DATA (SIMULATED):



LED	J Series 2835
FWHM / FWTM	43.0 + 17.0° / 76.0 + 47.0°
Efficiency	79 %
Peak intensity	2.3 cd/lm
LEDs/each optic	1
Light colour	White

Required components:



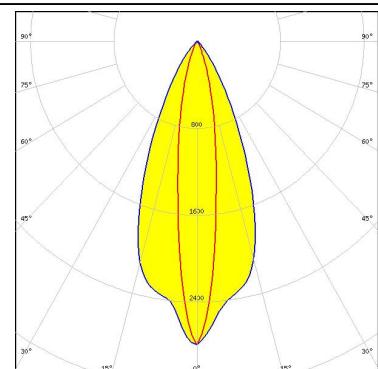
LED	XQ-E HD
FWHM / FWTM	13.0 + 40.0° / 32.0 + 69.0°
Efficiency	86 %
Peak intensity	3.5 cd/lm
LEDs/each optic	1
Light colour	White

Required components:



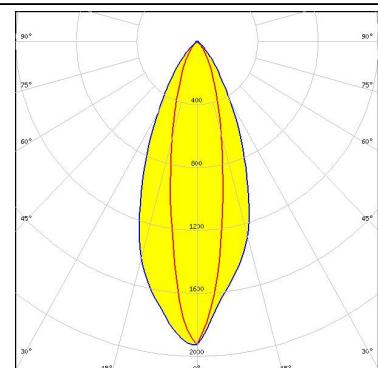
LED	LUXEON IR 2720
FWHM / FWTM	15.0 + 42.0° / 39.0 + 70.0°
Efficiency	82 %
LEDs/each optic	1
Light colour	IR

Required components:



LED	Duris S5 (2 chip)
FWHM / FWTM	20.0 + 42.0° / 56.0 + 78.0°
Efficiency	78 %
Peak intensity	1.9 cd/lm
LEDs/each optic	1
Light colour	White

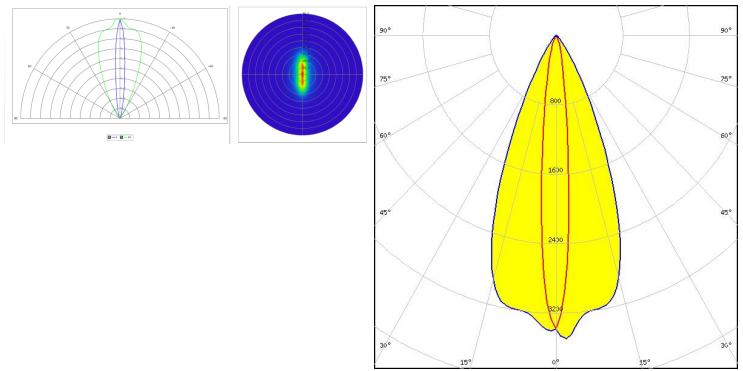
Required components:



## PHOTOMETRIC DATA (SIMULATED):

**OSRAM**  
Opto Semiconductors

LED SFH 4170S  
FWHM / FWTM  $11.0 + 43.0^\circ / 28.0 + 64.0^\circ$   
Efficiency 73 %  
LEDs/each optic 1  
Light colour IR  
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.

## PRODUCT DATA USER AGREEMENT AND DISCLAIMER:

The measured data in the provided downloadable LEDiL Product Datasheets and Mechanical 2D-Drawings is rounded and provided as reference for planning. LEDiL Oy's optical specifications have been verified by conducting performance testing of the products in accordance with the company's quality system. The reported data are averaged results of multiple measurements with typical variation. LEDiL Oy reserves the right to without prior notification make changes and improvements to its products.

LEDiL Oy assumes neither warranty, nor guarantee nor any other liability of any kind for the contents and correctness of the provided data. The provided data has been generated with highest diligence but the provided data may in reality not represent the complete possible variation range of all intrinsic parameters. Therefore, in certain cases a deviation from the provided data could occur.

LEDiL Oy reserves the right to undertake technical changes of its products without further notification which could lead to changes in the provided data. LEDiL Oy assumes no liability of any kind for the possible deviation from any provided data or any other damage resulting from the usage of the provided data.

The user agrees to this disclaimer and user agreement with the download or usage of the provided files.

**LEDiL Oy**  
Joensuunkatu 13  
FI-24240 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

**Local sales and technical support**  
[www.ledil.com/  
where\\_to\\_buy](http://www.ledil.com/where_to_buy)

**Shipping locations**  
Salo, Finland  
Hong Kong, China

**Distribution Partners**  
[www.ledil.com/  
where\\_to\\_buy](http://www.ledil.com/where_to_buy)