

## LISA2-O-PIN

~45° x 20° oval beam. 7.13 mm high variant with location pin installation.

### SPECIFICATION:

Dimensions	Ø 10.0
Height	6.8 mm
Fastening	pin
ROHS compliant	yes ⓘ

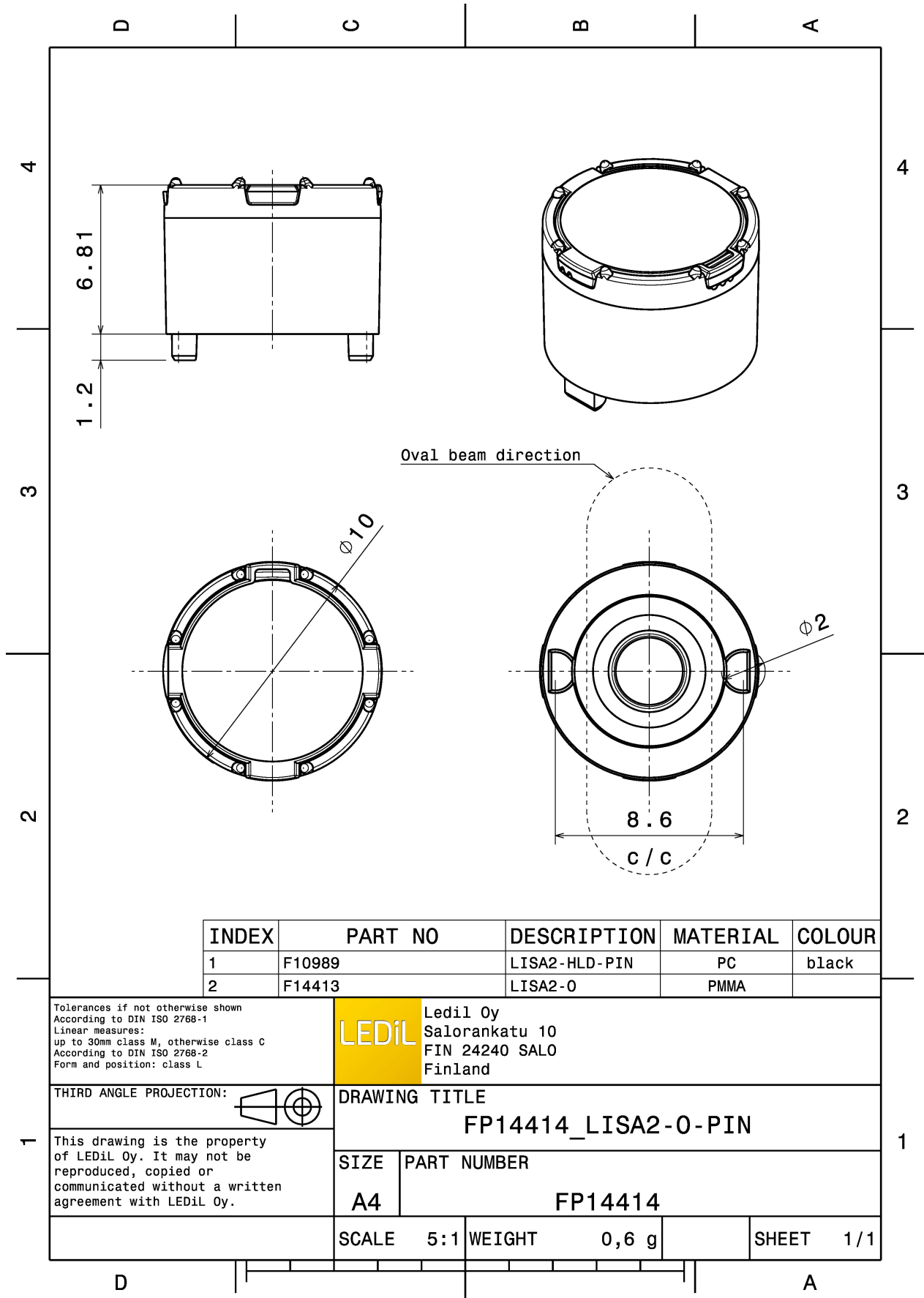


### MATERIALS:

Component	Type	Material	Colour	Finish	Length (mm)
LISA2-O	Single lens	PMMA	clear		
LISA2-HLD-PIN	Holder	PC	black		

### ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
FP14414_LISA2-O-PIN	Single lens	2000		100	1.4
» Box size:					

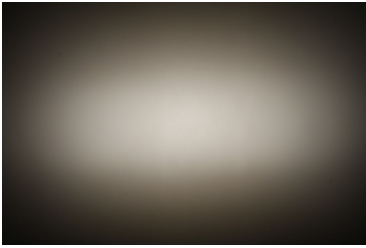
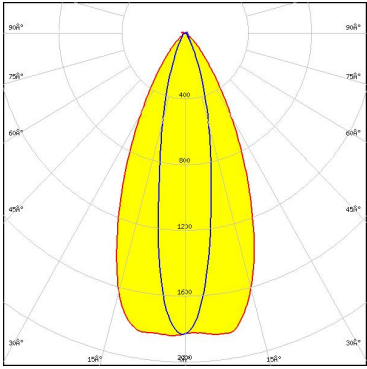


See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

### OPTICAL RESULTS (MEASURED):

**NICHIA**


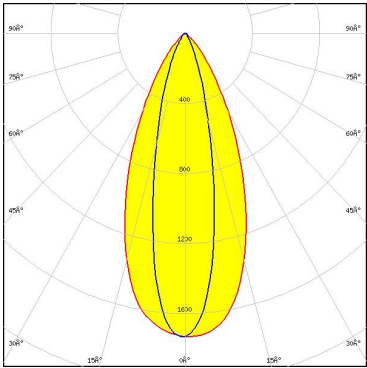
LED	NCSxx19B
FWHM / FWTM	49.0 + 21.0° / 80.0 + 48.0°
Efficiency	77 %
Peak intensity	1.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

Light distribution files

**OSRAM**  
Opto Semiconductors

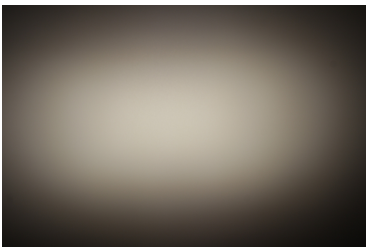
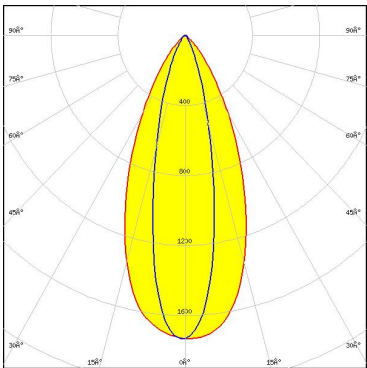
LED	OSLON Square EC
FWHM / FWTM	47.0 + 25.0° / 82.0 + 52.0°
Efficiency	75 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

Light distribution files

**OSRAM**  
Opto Semiconductors

LED	OSLON Square EC
FWHM / FWTM	47.0 + 25.0° / 82.0 + 52.0°
Efficiency	75 %
Peak intensity	1.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

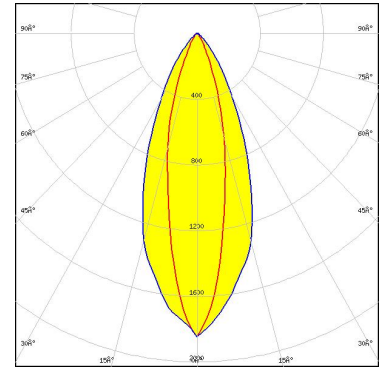



Light distribution files

### OPTICAL RESULTS (SIMULATED):



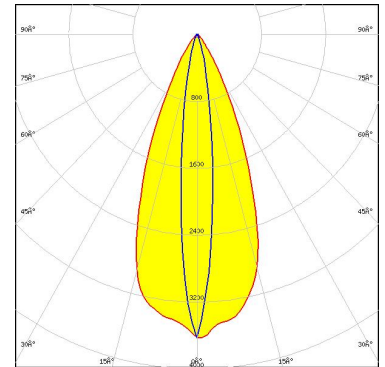
**LED** CSP 2323 (BXCP)  
**FWHM / FWTM** 23.0 + 42.0° / 51.0 + 78.0°  
**Efficiency** 75 %  
**Peak intensity** 1.8 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**



Light distribution files



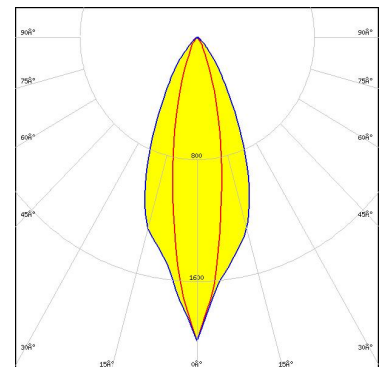
**LED** XQ-E HI  
**FWHM / FWTM** 43.0 + 13.0° / 69.0 + 30.0°  
**Efficiency** 86 %  
**Peak intensity** 3.6 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**



Light distribution files



**LED** LUXEON IR 2720  
**FWHM / FWTM** 20.0 + 42.0° / 46.0 + 76.0°  
**Efficiency** 72 %  
**LEDs/each optic** 1  
**Light colour/type** IR  
**Required components:**

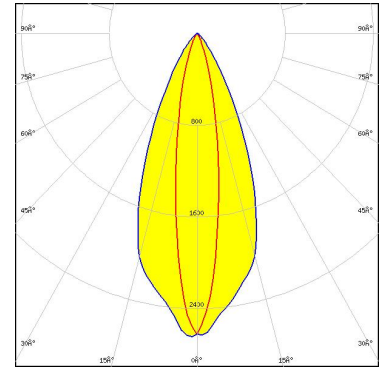


Light distribution files

### OPTICAL RESULTS (SIMULATED):



LED LUXEON IR 2720  
FWHM / FWTM 17.0 + 43.0° / 40.0 + 72.0°  
Efficiency 84 %  
LEDs/each optic 1  
Light colour/type IR  
Required components:



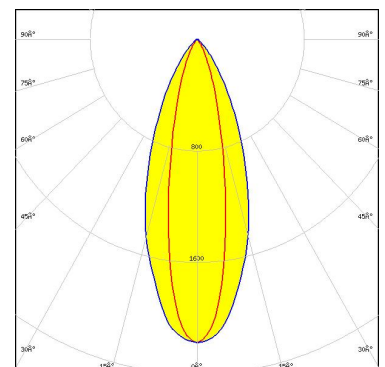
Light distribution files



LED LUXEON IR Compact  
FWHM / FWTM 41.0 + 15.0° / 69.0 + 34.0°  
Efficiency 77 %  
LEDs/each optic 1  
Light colour/type White  
Required components:



LED LUXEON TX  
FWHM / FWTM 22.0 + 40.0° / 50.0 + 76.0°  
Efficiency 82 %  
Peak intensity 2.2 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

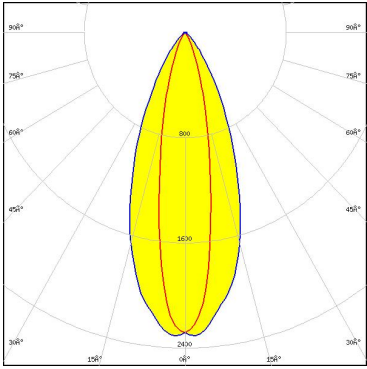


Light distribution files

### OPTICAL RESULTS (SIMULATED):

**LUMINUS**

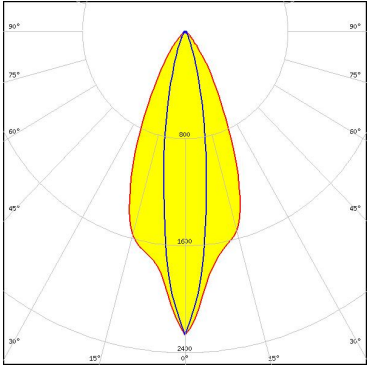
LED: SST-20 Gen1  
 FWHM / FWTM: 20.0 + 42.0° / 46.0 + 76.0°  
 Efficiency: 82 %  
 Peak intensity: 2.3 cd/lm  
 LEDs/each optic: 1  
 Light colour/type: White  
 Required components:



Light distribution files

**NICHIA**

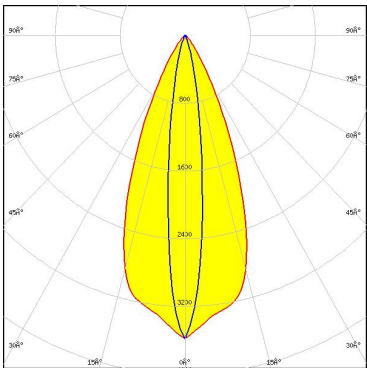
LED: NCSWE13A  
 FWHM / FWTM: 42.0 + 16.0° / 74.0 + 40.0°  
 Efficiency: 71 %  
 Peak intensity: 2.3 cd/lm  
 LEDs/each optic: 1  
 Light colour/type: White  
 Required components:



Light distribution files


**OSRAM**  
Opto Semiconductors

LED: OSOLON Pure 1414  
 FWHM / FWTM: 44.0 + 14.0° / 68.0 + 31.0°  
 Efficiency: 87 %  
 Peak intensity: 3.6 cd/lm  
 LEDs/each optic: 1  
 Light colour/type: White  
 Required components:



Light distribution files

### OPTICAL RESULTS (SIMULATED):

 SEOUL SEMICONDUCTOR	
LED	Z8Y22P
FWHM / FWTM	40.0 + 25.0° / 81.0 + 58.0°
Efficiency	75 %
Peak intensity	1.7 cd/lm
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:

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