

## LISA3CSP-O-PIN

~20° + 50° ovat beam

### SPECIFICATION:

Dimensions	Ø 10.0 mm
Height	7.2 mm
Fastening	glue
ROHS compliant	yes ⓘ

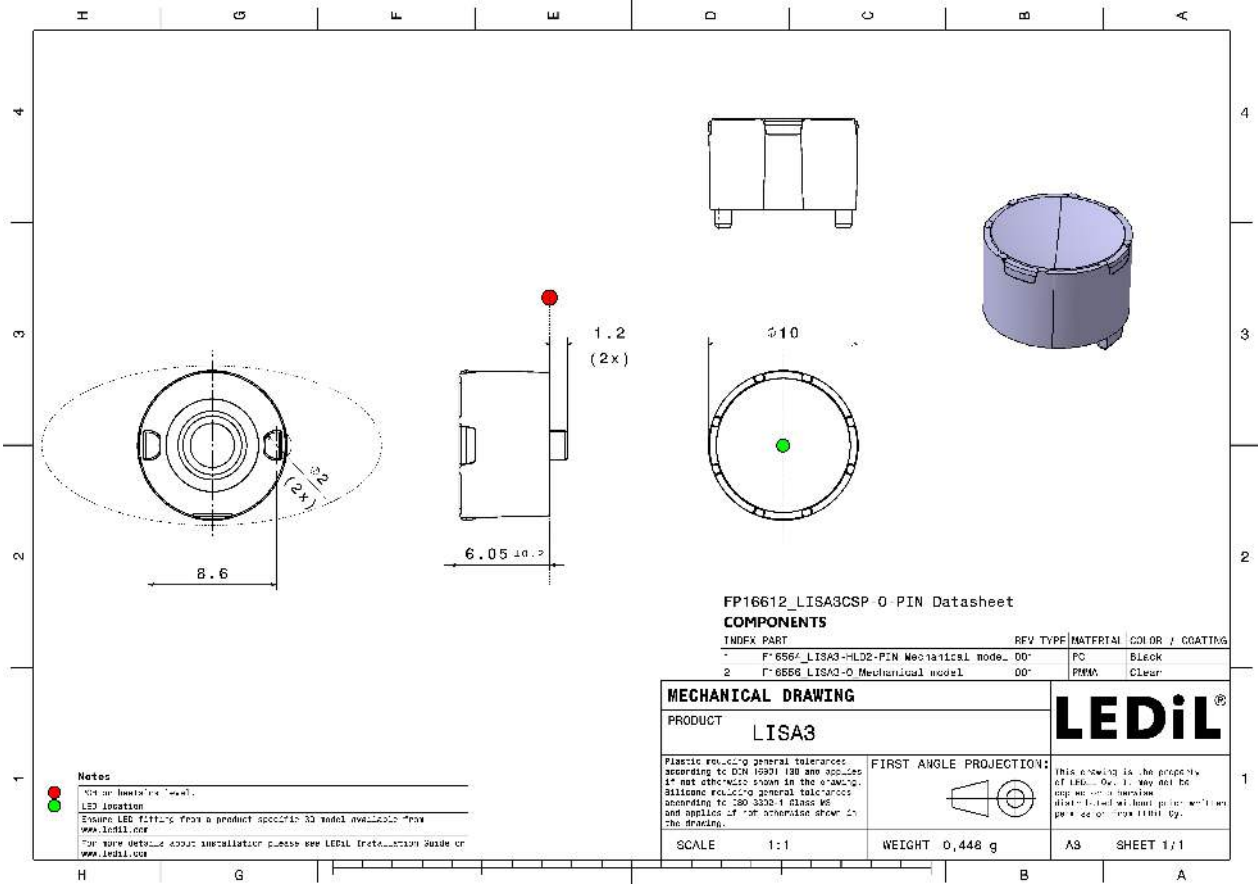
### MATERIALS:

Component	Type	Material	Colour	Finish
LISA3-O	Single lens	PMMA	clear	
LISA3-HLD2-PIN	Holder	PC	black	

### ORDERING INFORMATION:



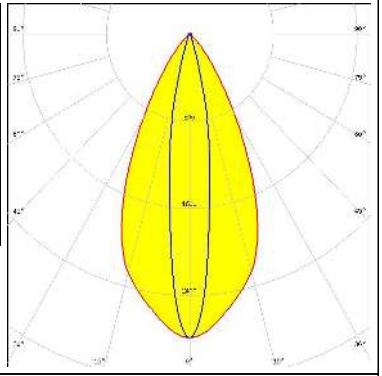


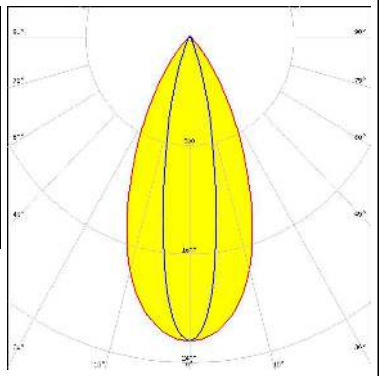


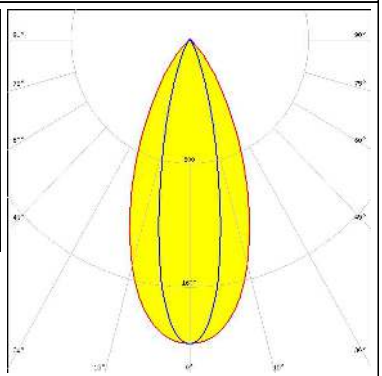

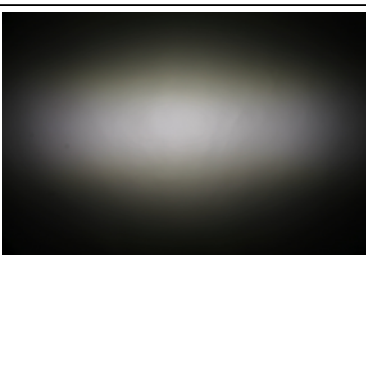
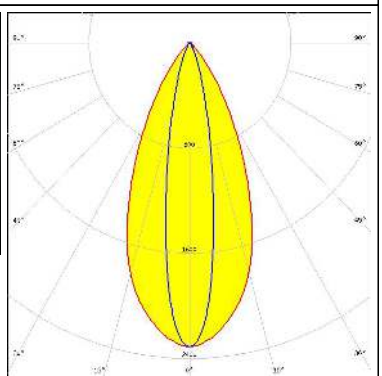
Component	Type	Qty in box	MOQ	MPQ	Box weight (kg)
FP16612_LISA3CSP-O-PIN » Box size: 310 x 230 x 60 mm	Single lens	2000	300	100	1.3




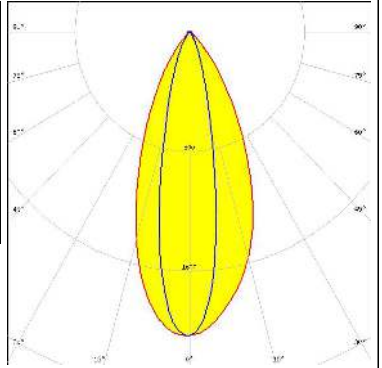

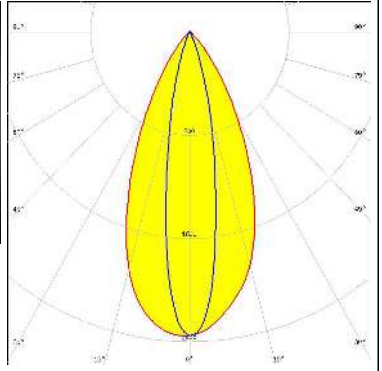
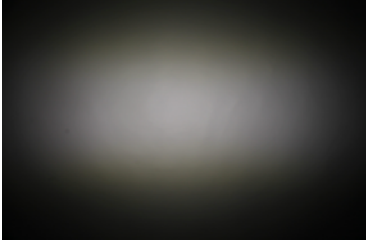
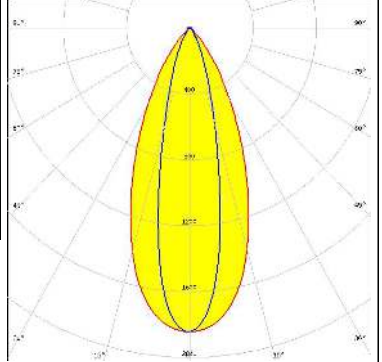


See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

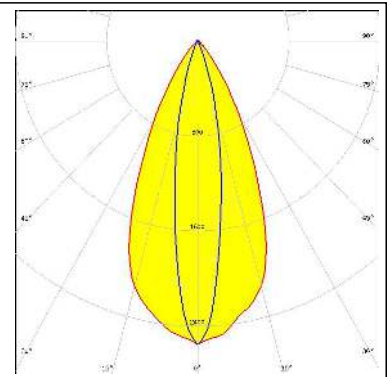
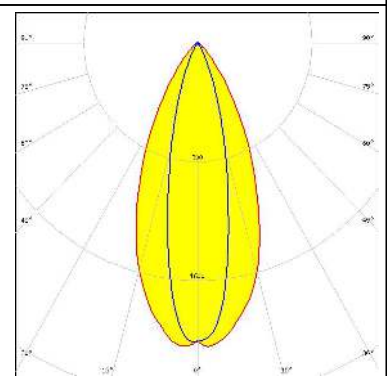
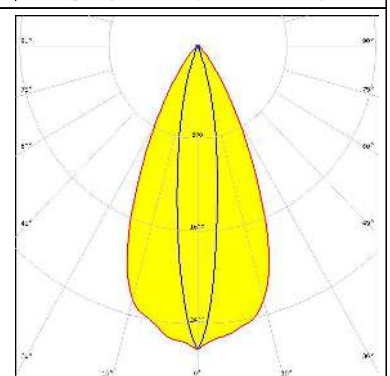
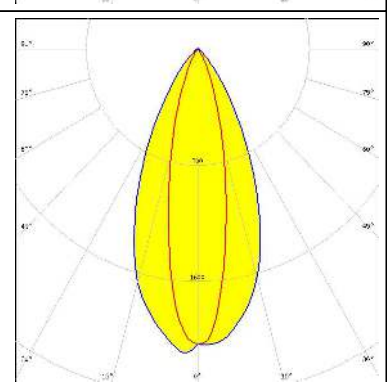
#### OPTICAL RESULTS (MEASURED):

<p></p> <p>LED CSP 1111 (BXCP)</p> <p>FWHM / FWTM 50.0 + 16.0° / 78.0 + 33.0°</p> <p>Efficiency 77 %</p> <p>Peak intensity 2.8 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p></p> <p>LED CSP 1919 (BXCP)</p> <p>FWHM / FWTM 47.0 + 21.0° / 79.0 + 41.0°</p> <p>Efficiency 79 %</p> <p>Peak intensity 2.2 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p></p> <p>LED CSP 2323 (BXCP)</p> <p>FWHM / FWTM 46.0 + 24.0° / 79.0 + 47.0°</p> <p>Efficiency 79 %</p> <p>Peak intensity 2 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p></p> <p>LED NCSxE17A</p> <p>FWHM / FWTM 46.0 + 19.0° / 78.0 + 41.0°</p> <p>Efficiency 77 %</p> <p>Peak intensity 2.4 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		


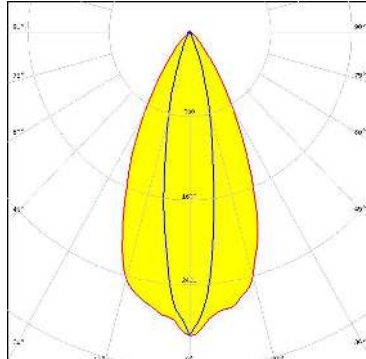

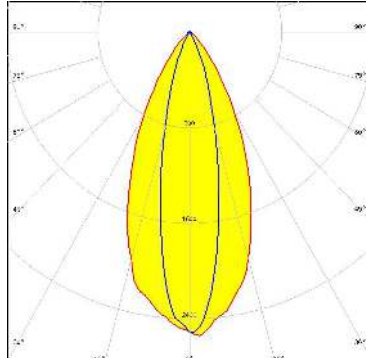
#### OPTICAL RESULTS (MEASURED):

<p><b>NICHIA</b></p> <p>LED NVSxE21A            FWHM / FWTM 45.0 + 22.0° / 79.0 + 47.0°            Efficiency 76 %            Peak intensity 2 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		
<p><b>SAMSUNG</b></p> <p>LED LH151B            FWHM / FWTM 48.0 + 19.0° / 79.0 + 39.0°            Efficiency 78 %            Peak intensity 2.4 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		
<p><b>SAMSUNG</b></p> <p>LED LH181B            FWHM / FWTM 45.0 + 24.0° / 79.0 + 51.0°            Efficiency 76 %            Peak intensity 1.9 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		

#### OPTICAL RESULTS (SIMULATED):

<p><b>LUMILEDS</b></p> <p>LED: LUXEON HL1Z</p> <p>FWHM / FWTM: 48.0 + 18.0° / 76.0 + 39.0°</p> <p>Efficiency: 84 %</p> <p>Peak intensity: 2.6 cd/lm</p> <p>LEDs/each optic: 1</p> <p>Light colour: White</p> <p>Required components:</p>	
<p><b>LUMILEDS</b></p> <p>LED: LUXEON HL2Z</p> <p>FWHM / FWTM: 46.0 + 24.0° / 80.0 + 49.0°</p> <p>Efficiency: 83 %</p> <p>Peak intensity: 2.1 cd/lm</p> <p>LEDs/each optic: 1</p> <p>Light colour: White</p> <p>Required components:</p>	
<p><b>NICHIA</b></p> <p>LED: NFSWE11A</p> <p>FWHM / FWTM: 16.0 + 48.0° / 36.0 + 76.0°</p> <p>Efficiency: 79 %</p> <p>Peak intensity: 2.6 cd/lm</p> <p>LEDs/each optic: 1</p> <p>Light colour: White</p> <p>Required components:</p>	
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED: OSCONIQ C 2424</p> <p>FWHM / FWTM: 24.0 + 48.0° / 49.0 + 80.0°</p> <p>Efficiency: 83 %</p> <p>Peak intensity: 2.1 cd/lm</p> <p>LEDs/each optic: 1</p> <p>Light colour: White</p> <p>Required components:</p>	

**OPTICAL RESULTS (SIMULATED):**

<p> SEOUL SEMICONDUCTOR</p> <p>LED: Z8Y15</p> <p>FWHM / FWTM: 18.0 + 48.0° / 40.0 + 79.0°</p> <p>Efficiency: 80 %</p> <p>Peak intensity: 2.5 cd/lm</p> <p>LEDs/each optic: 1</p> <p>Light colour: White</p> <p>Required components:</p>	
<p> SEOUL SEMICONDUCTOR</p> <p>LED: Z8Y19</p> <p>FWHM / FWTM: 22.0 + 45.0° / 45.0 + 78.0°</p> <p>Efficiency: 80 %</p> <p>Peak intensity: 2.1 cd/lm</p> <p>LEDs/each optic: 1</p> <p>Light colour: White</p> <p>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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