

## LISA3CSP-O-PIN

~20° + 50° ovat beam

### SPECIFICATION:

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

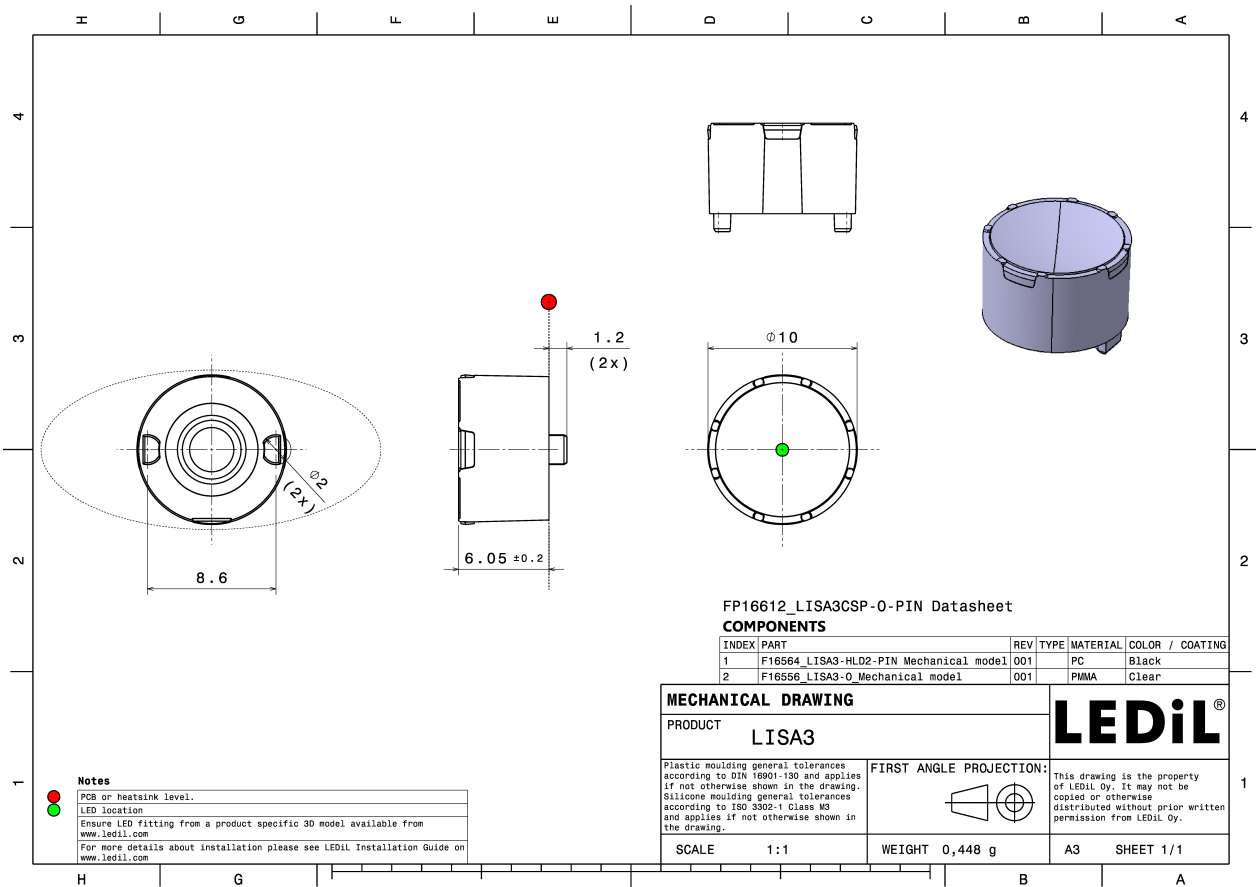
### MATERIALS:

Component	Type	Material	Colour	Finish	Length
LISA3-O	Single lens	PMMA	clear		9.9
LISA3-HLD2-PIN	Holder	PC	black		9.9

### ORDERING INFORMATION:

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



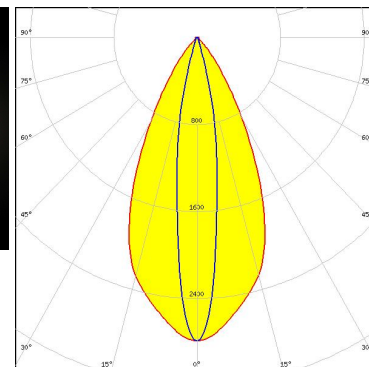
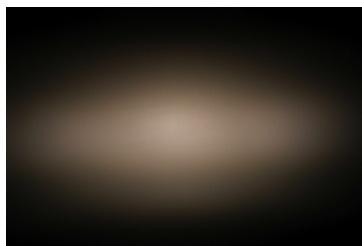


See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

#### OPTICAL RESULTS (MEASURED):



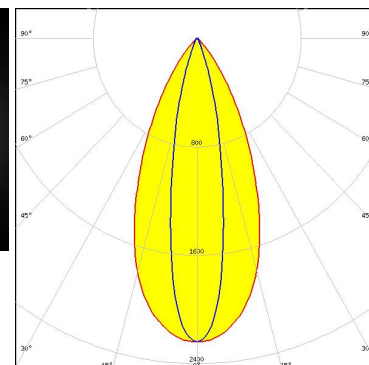
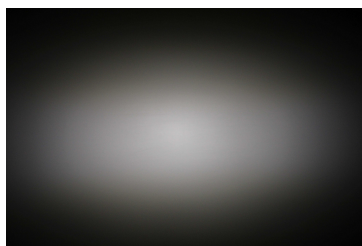
LED CSP 1111 (BXCP)  
 FWHM / FWTM 50.0 + 16.0° / 78.0 + 33.0°  
 Efficiency 77 %  
 Peak intensity 2.8 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



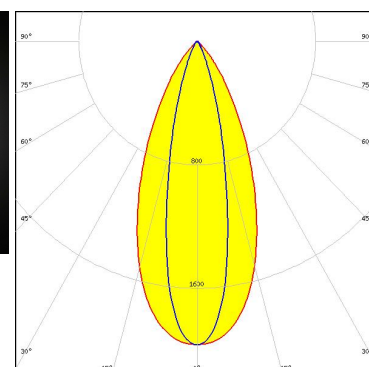
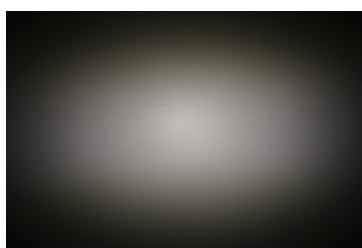
LED CSP 1919 (BXCP)  
 FWHM / FWTM 47.0 + 21.0° / 79.0 + 41.0°  
 Efficiency 79 %  
 Peak intensity 2.2 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED CSP 2323 (BXCP)  
 FWHM / FWTM 46.0 + 24.0° / 79.0 + 47.0°  
 Efficiency 79 %  
 Peak intensity 2 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

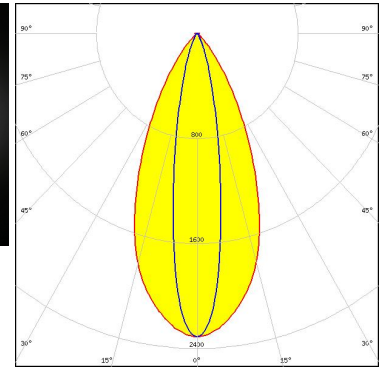


Light distribution files

#### OPTICAL RESULTS (MEASURED):



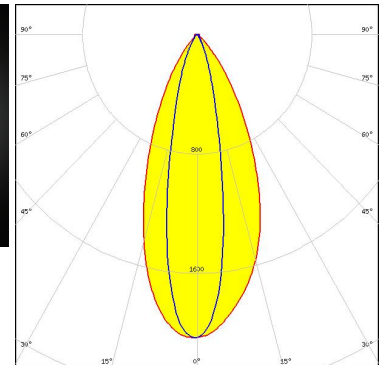
LED NCSxE17A  
 FWHM / FWTM 46.0 + 19.0° / 78.0 + 41.0°  
 Efficiency 77 %  
 Peak intensity 2.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



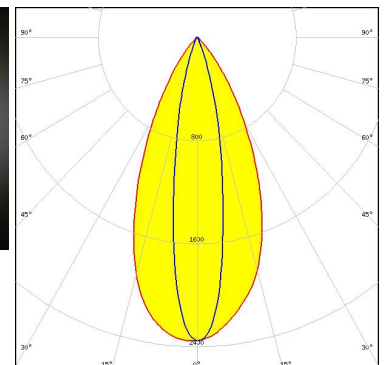
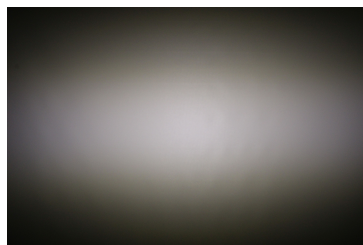
LED NVSxE21A  
 FWHM / FWTM 45.0 + 22.0° / 79.0 + 47.0°  
 Efficiency 76 %  
 Peak intensity 2 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



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/type White  
 Required components:

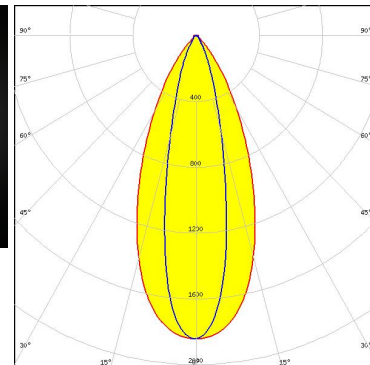
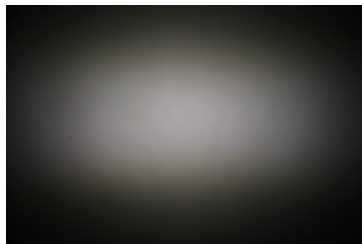


Light distribution files

## OPTICAL RESULTS (MEASURED):

### SAMSUNG

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/type	White
Required components:	

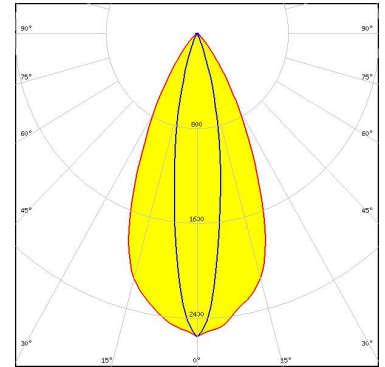


Light distribution files

#### OPTICAL RESULTS (SIMULATED):



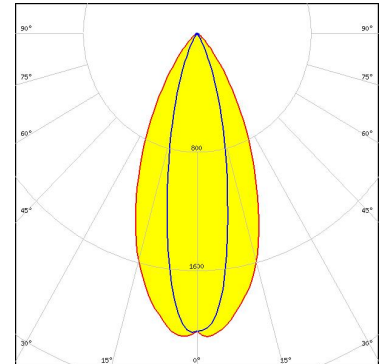
LED LUXEON HL1Z  
 FWHM / FWTM 48.0 + 18.0° / 76.0 + 39.0°  
 Efficiency 84 %  
 Peak intensity 2.6 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



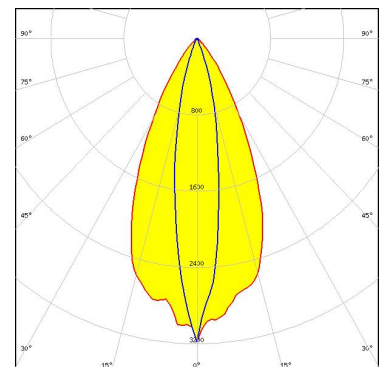
LED LUXEON HL2Z  
 FWHM / FWTM 46.0 + 24.0° / 80.0 + 49.0°  
 Efficiency 83 %  
 Peak intensity 2.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED NCSxE17A  
 FWHM / FWTM 17.0 + 48.0° / 39.0 + 80.0°  
 Efficiency 82 %  
 Peak intensity 2.6 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

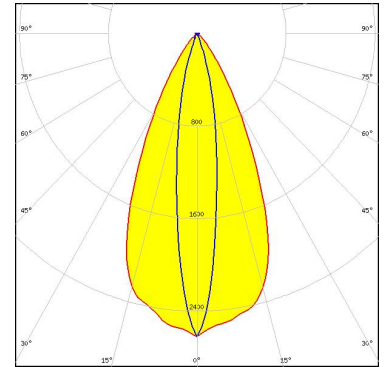


Light distribution files

#### OPTICAL RESULTS (SIMULATED):



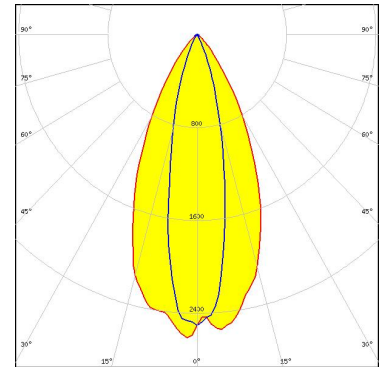
LED NFSWE11A  
 FWHM / FWTM 16.0 + 48.0° / 36.0 + 76.0°  
 Efficiency 79 %  
 Peak intensity 2.6 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



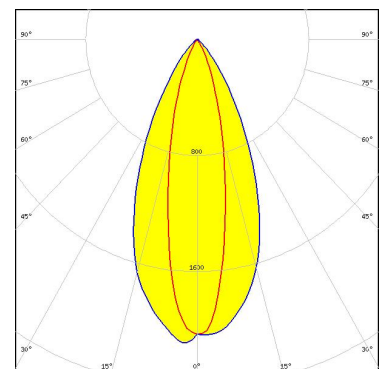
LED NVSxE21A  
 FWHM / FWTM 20.0 + 46.0° / 40.0 + 77.0°  
 Efficiency 82 %  
 Peak intensity 2.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED OSCONIQ C 2424  
 FWHM / FWTM 24.0 + 48.0° / 49.0 + 80.0°  
 Efficiency 83 %  
 Peak intensity 2.1 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

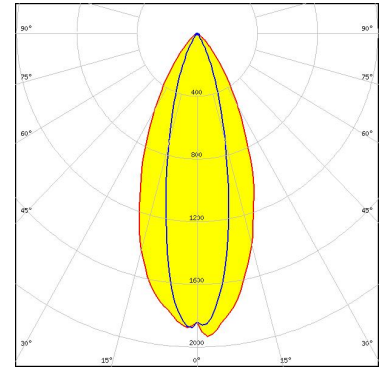


Light distribution files

#### OPTICAL RESULTS (SIMULATED):

#### SAMSUNG

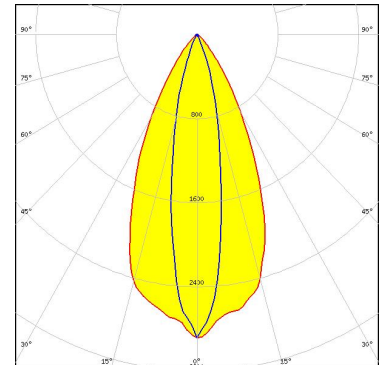
LED	LH181B
FWHM / FWTM	23.0 + 44.0° / 48.0 + 80.0°
Efficiency	82 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files



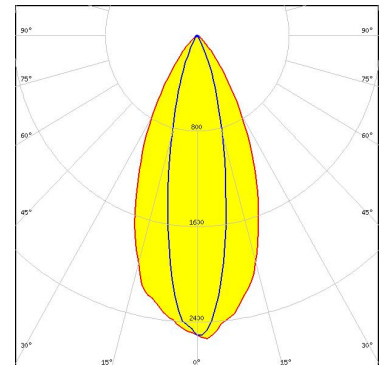
LED	Z8Y15
FWHM / FWTM	18.0 + 48.0° / 40.0 + 79.0°
Efficiency	80 %
Peak intensity	2.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files



LED	Z8Y19
FWHM / FWTM	22.0 + 45.0° / 45.0 + 78.0°
Efficiency	80 %
Peak intensity	2.1 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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