

## LISA3CSP-WW-PIN

~45° wide beam

### TECHNICAL SPECIFICATIONS:

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

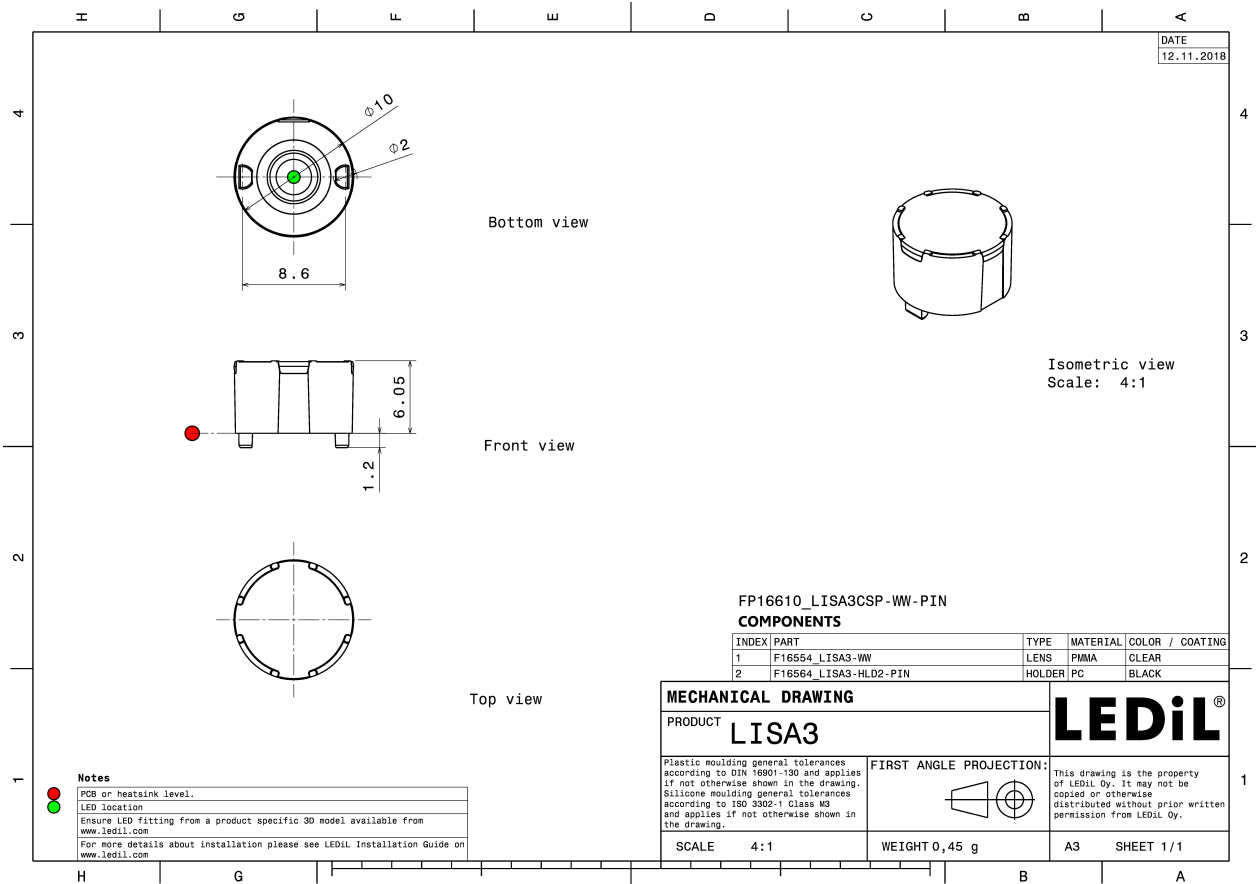
### MATERIAL SPECIFICATIONS:

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

### ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
FP16610_LISA3CSP-WW-PIN	Single lens	2000	300	100	1.4
» Box size: 310 x 230 x 60 mm					



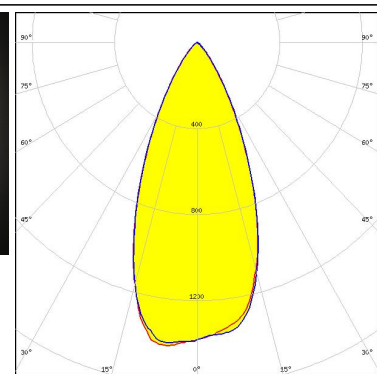
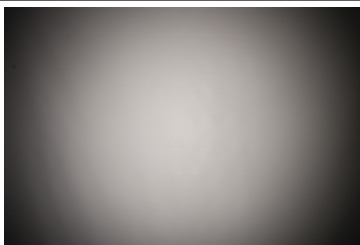


See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

### PHOTOMETRIC DATA (MEASURED):

#### SAMSUNG

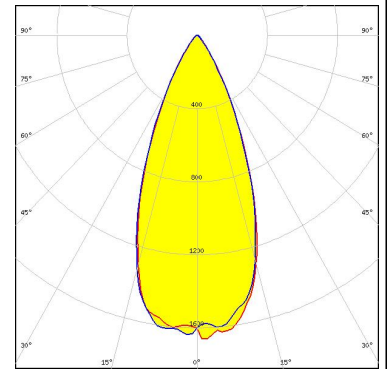
LED LH151B  
 FWHM / FWTM 46.0° / 75.0°  
 Efficiency 89 %  
 Peak intensity 1.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



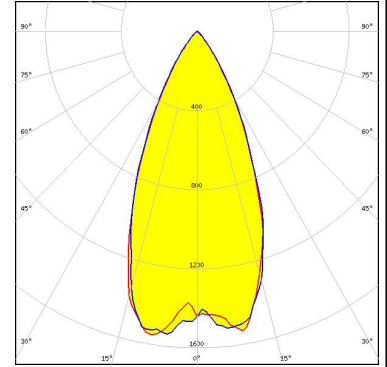
#### PHOTOMETRIC DATA (SIMULATED):



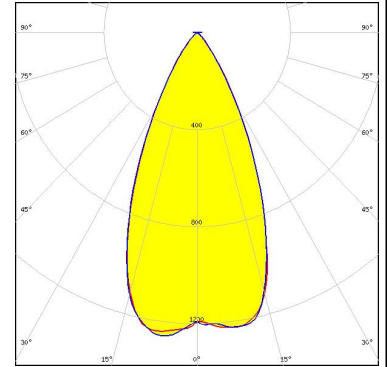
LED LUXEON CSP HL1  
 FWHM / FWTM 42.0 + 44.0° / 70.0°  
 Efficiency 95 %  
 Peak intensity 1.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



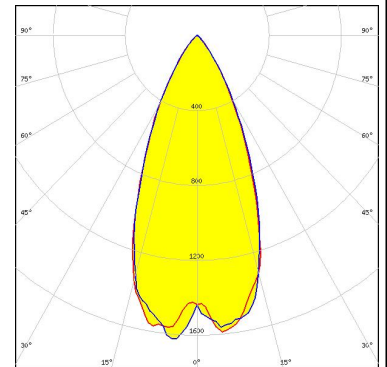
LED NCSxE17A  
 FWHM / FWTM 46.0° / 74.0°  
 Efficiency 88 %  
 Peak intensity 1.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED NFSWE11A  
 FWHM / FWTM 48.0° / 75.0°  
 Efficiency 85 %  
 Peak intensity 1.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED NVSxE21A  
 FWHM / FWTM 44.0° / 75.0°  
 Efficiency 89 %  
 Peak intensity 1.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

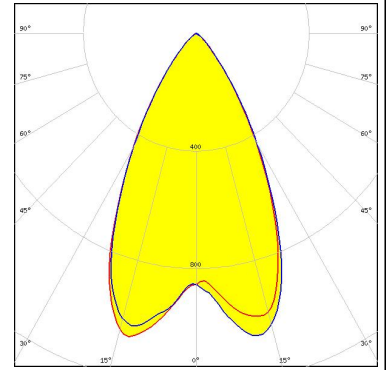


#### PHOTOMETRIC DATA (SIMULATED):


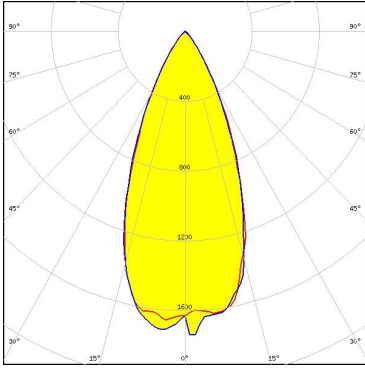

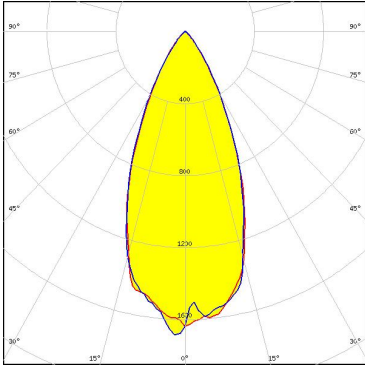

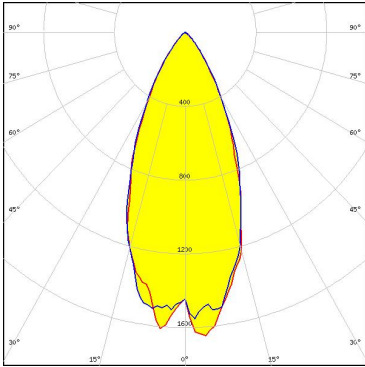
##### OSRAM

Opto Semiconductors

LED OSCONIQ C 2424  
FWHM / FWTM 56.0° / 84.0°  
Efficiency 91 %  
Peak intensity 1.1 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



#### PHOTOMETRIC DATA (SIMULATED):

<p> <b>SEOUL SEMICONDUCTOR</b></p> <p>LED Z8Y15</p> <p>FWHM / FWTM 44.0° / 53.0°</p> <p>Efficiency 87 %</p> <p>Peak intensity 1.6 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	
<p> <b>SEOUL SEMICONDUCTOR</b></p> <p>LED Z8Y19</p> <p>FWHM / FWTM 45.0° / 73.0°</p> <p>Efficiency 87 %</p> <p>Peak intensity 1.5 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	
<p> <b>SEOUL SEMICONDUCTOR</b></p> <p>LED Z8Y22</p> <p>FWHM / FWTM 44.0° / 76.0°</p> <p>Efficiency 86 %</p> <p>Peak intensity 1.4 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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