

## LISA3CSP-M-PIN

~25° medium beam

### SPECIFICATION:

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

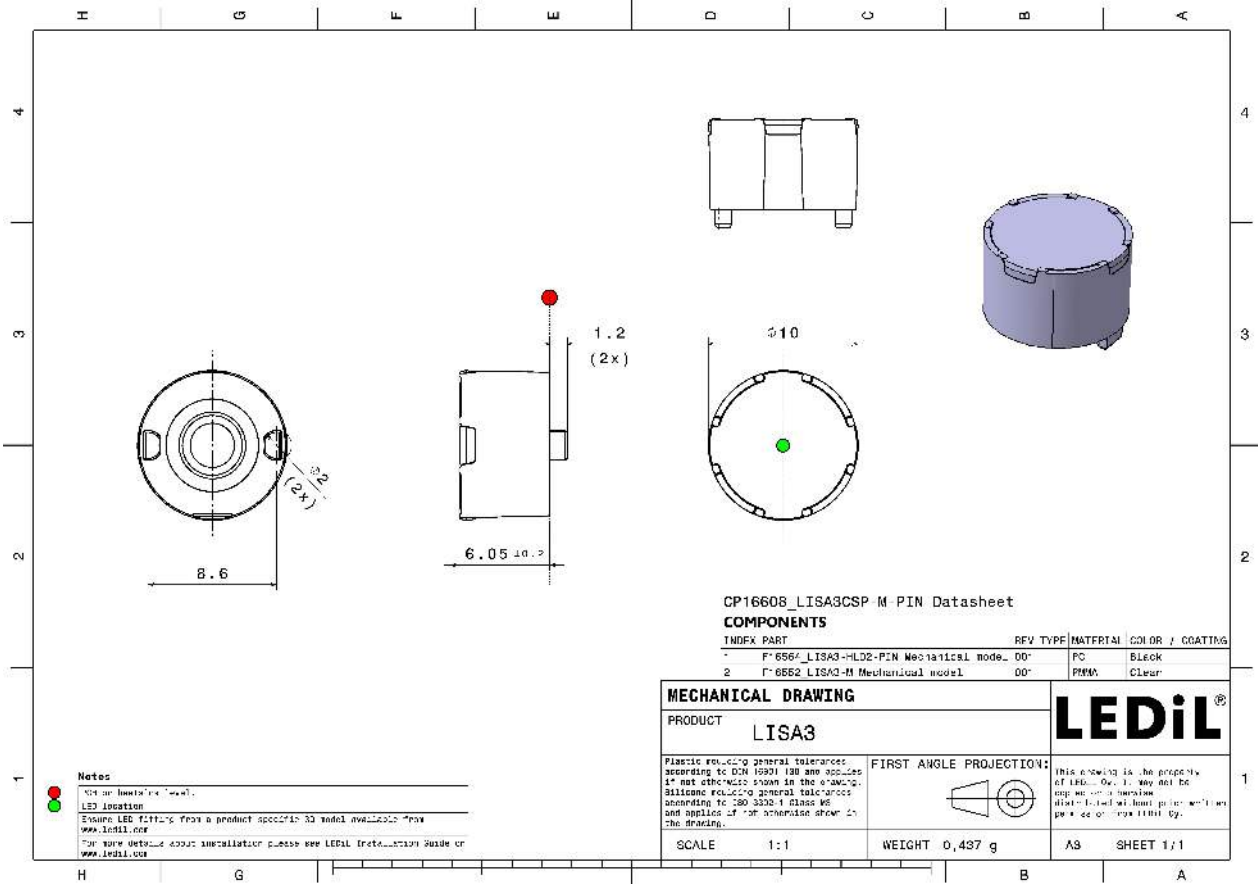
### MATERIALS:

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

### ORDERING INFORMATION:



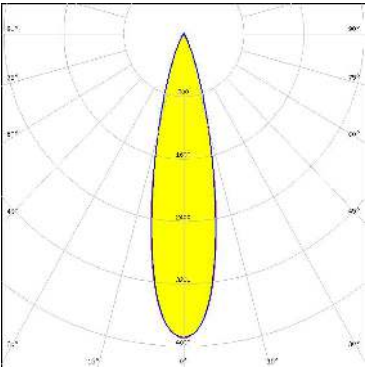


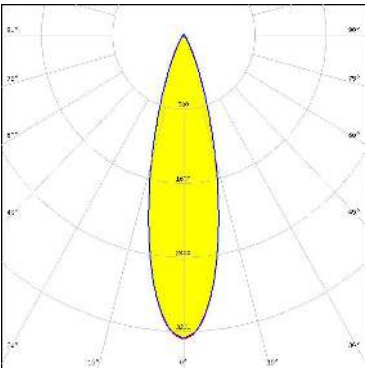


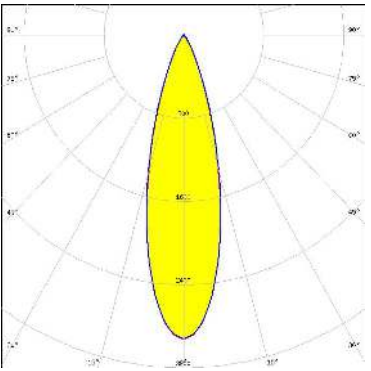


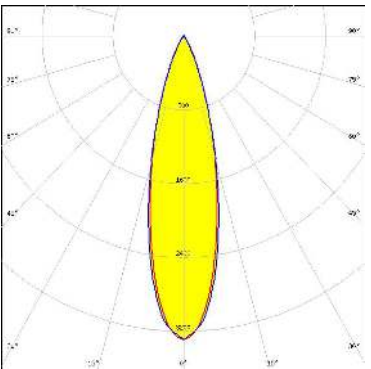
Component		Qty in box	MOQ	MPQ	Box weight (kg)
FP16608_LISA3CSP-M-PIN	Single lens	2000	300	100	1.3
» Box size: 310 x 230 x 60 mm					




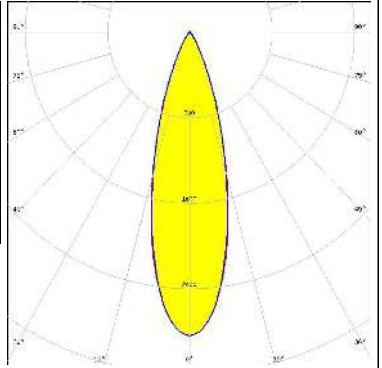

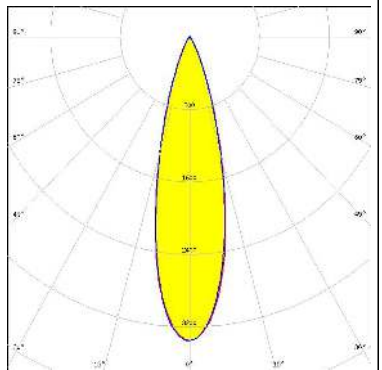
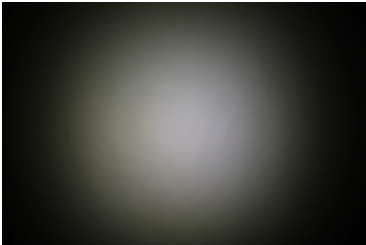
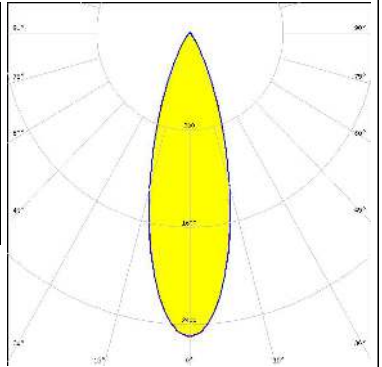


See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

#### OPTICAL RESULTS (MEASURED):

<p></p> <p>LED CSP 1111 (BXCP)</p> <p>FWHM / FWTM 24.0° / 45.0°</p> <p>Efficiency 86 %</p> <p>Peak intensity 3.9 cd/m</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 27.0° / 50.0°</p> <p>Efficiency 88 %</p> <p>Peak intensity 3.3 cd/m</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 28.0° / 53.0°</p> <p>Efficiency 88 %</p> <p>Peak intensity 2.9 cd/m</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 27.0° / 51.0°</p> <p>Efficiency 89 %</p> <p>Peak intensity 3.3 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		

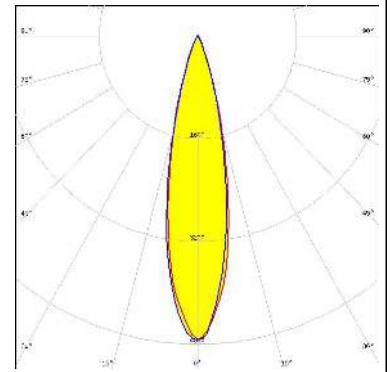
#### OPTICAL RESULTS (MEASURED):

<p><b>NICHIA</b></p> <p>LED NVSxE21A            FWHM / FWTM 30.0° / 55.0°            Efficiency 90 %            Peak intensity 2.8 cd/m            LEDs/each optic 1            Light colour White            Required components:</p>		
<p><b>SAMSUNG</b></p> <p>LED LH151B            FWHM / FWTM 27.0° / 49.0°            Efficiency 87 %            Peak intensity 3.4 cd/m            LEDs/each optic 1            Light colour White            Required components:</p>		
<p><b>SAMSUNG</b></p> <p>LED LH181B            FWHM / FWTM 31.0° / 58.0°            Efficiency 89 %            Peak intensity 2.5 cd/m            LEDs/each optic 1            Light colour White            Required components:</p>		

#### OPTICAL RESULTS (SIMULATED):

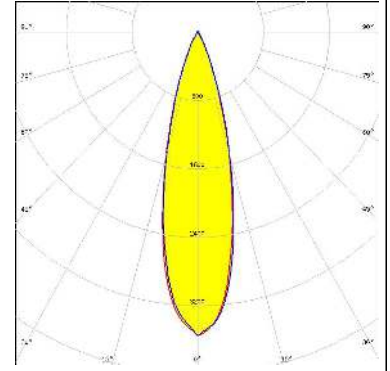
##### LUMILEDS

LED LUXEON CSP HL1  
 FWHM / FWTM 23.0° / 43.0 + 42.0°  
 Efficiency 95 %  
 Peak intensity 4.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



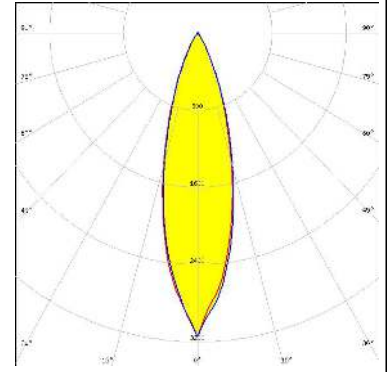
##### LUMILEDS

LED LUXEON HL1Z  
 FWHM / FWTM 26.0 + 27.0° / 48.0°  
 Efficiency 89 %  
 Peak intensity 3.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



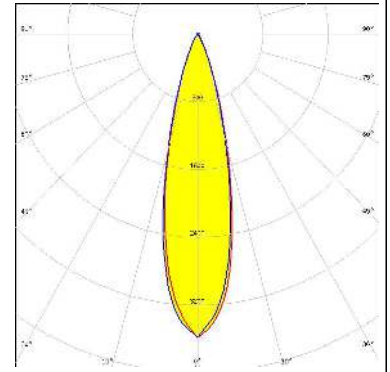
##### LUMILEDS

LED LUXEON HL2Z  
 FWHM / FWTM 28.0 + 27.0° / 54.0°  
 Efficiency 90 %  
 Peak intensity 3.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

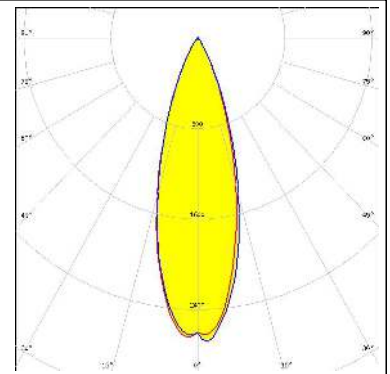
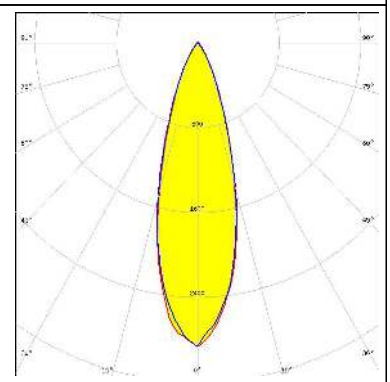
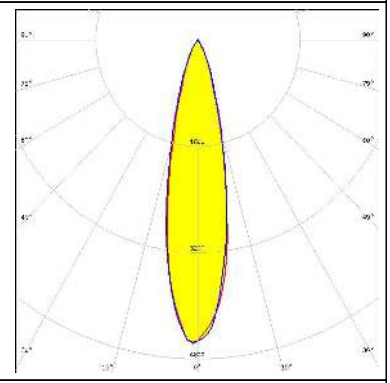
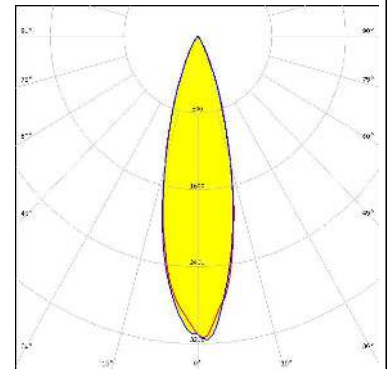


##### NICHIA


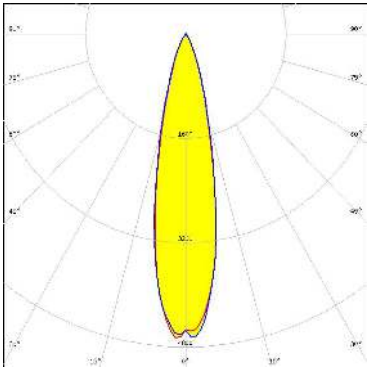

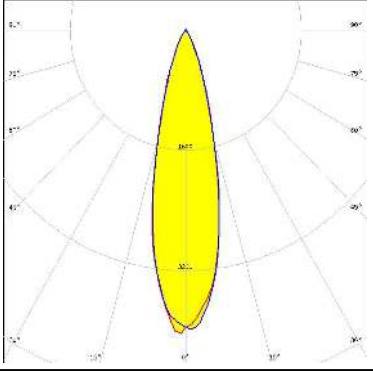

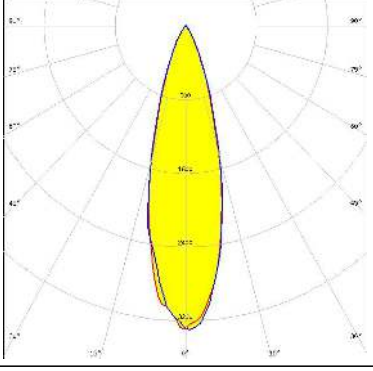
LED NFSWE11A  
 FWHM / FWTM 26.0° / 47.0°  
 Efficiency 82 %  
 Peak intensity 3.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### OPTICAL RESULTS (SIMULATED):

<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED OSCONIQ C 2424</p> <p>FWHM / FWTM 32.0° / 57.0°</p> <p>Efficiency 91 %</p> <p>Peak intensity 2.7 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	
<p><b>SAMSUNG</b></p> <p>LED LH231B</p> <p>FWHM / FWTM 30.0° / 60.0°</p> <p>Efficiency 90 %</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><b>SAMSUNG</b></p> <p>LED LM101B</p> <p>FWHM / FWTM 27.0° / 50.0°</p> <p>Efficiency 89 %</p> <p>Peak intensity 3.2 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	
<p><b>SECO</b> SEOUL SEMICONDUCTOR</p> <p>LED Z8Y11</p> <p>FWHM / FWTM 27.0° / 51.0°</p> <p>Efficiency 83 %</p> <p>Peak intensity 3.2 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: 25.0° / 50.0°</p> <p>Efficiency: 84 %</p> <p>Peak intensity: 3.4 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: 25.0° / 48.0°</p> <p>Efficiency: 85 %</p> <p>Peak intensity: 3.2 cd/lm</p> <p>LEDs/each optic: 1</p> <p>Light colour: White</p> <p>Required components:</p>	
<p> SEOUL SEMICONDUCTOR</p> <p>LED: Z8Y22</p> <p>FWHM / FWTM: 30.0° / 57.0°</p> <p>Efficiency: 85 %</p> <p>Peak intensity: 2.6 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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