

## LISA3CSP-WW-PIN

~45° wide beam

### SPECIFICATION:

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

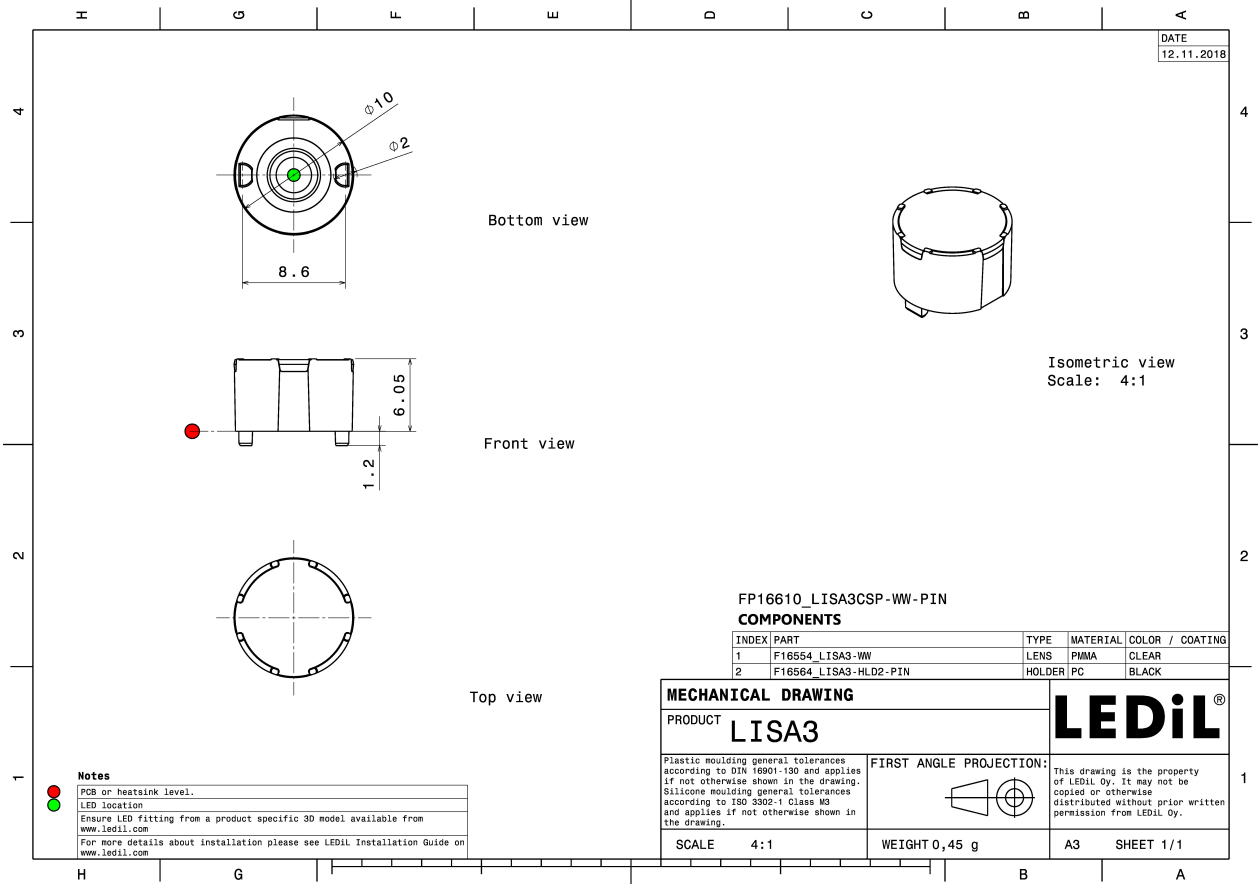
### MATERIALS:

Component	Type	Material	Colour	Finish	Length (mm)
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 » Box size: 310 x 230 x 60 mm	2000	300	100	1.4



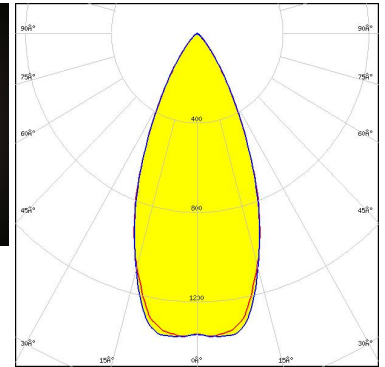
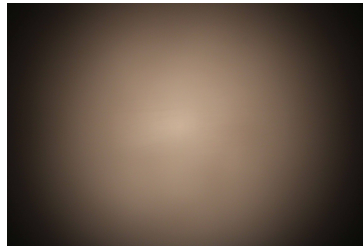


See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

#### OPTICAL RESULTS (MEASURED):

bridgelux

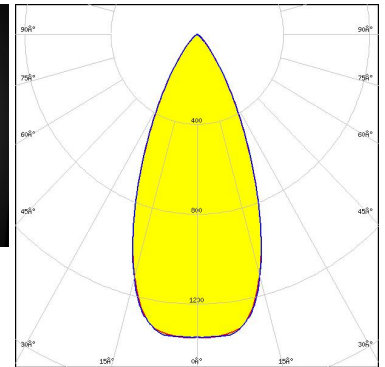
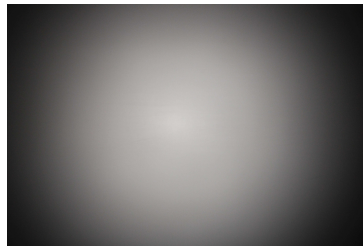
LED CSP 1111 (BXCP)  
FWHM / FWTM 45.0° / 75.0°  
Efficiency 88 %  
Peak intensity 1.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

bridgelux

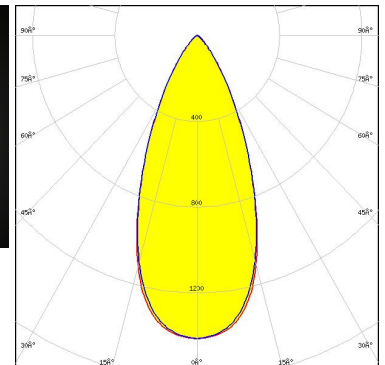
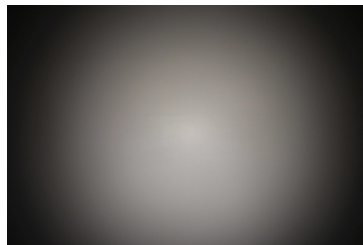
LED CSP 1919 (BXCP)  
FWHM / FWTM 46.0° / 76.0°  
Efficiency 90 %  
Peak intensity 1.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

bridgelux

LED CSP 2323 (BXCP)  
FWHM / FWTM 44.0° / 76.0°  
Efficiency 90 %  
Peak intensity 1.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

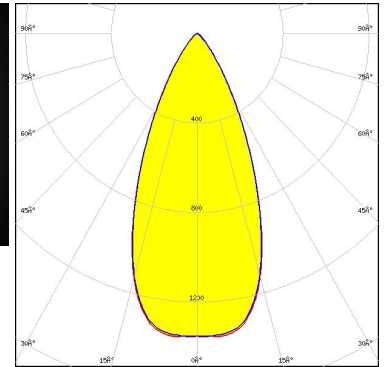
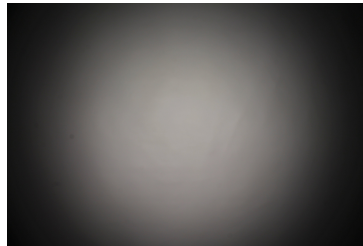


Light distribution files

#### OPTICAL RESULTS (MEASURED):



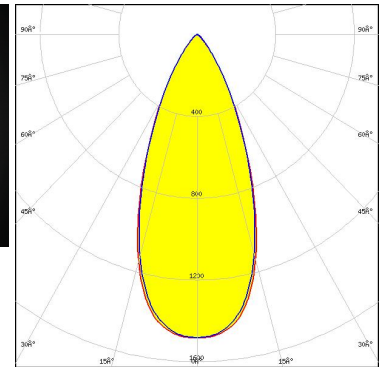
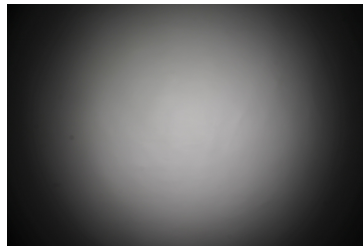
LED NCSxE17A  
FWHM / FWTM 46.0° / 76.0°  
Efficiency 90 %  
Peak intensity 1.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



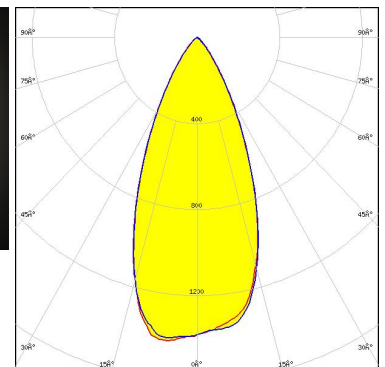
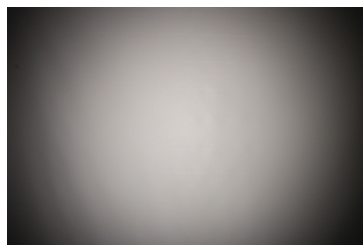
LED NVSxE21A  
FWHM / FWTM 43.0° / 75.0°  
Efficiency 90 %  
Peak intensity 1.5 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



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

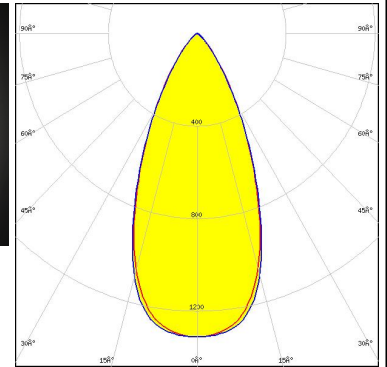
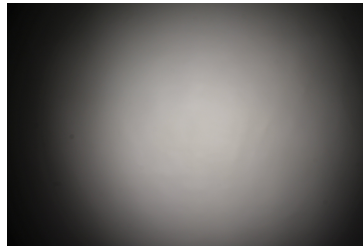


Light distribution files

### OPTICAL RESULTS (MEASURED):

#### SAMSUNG

LED LH181B  
FWHM / FWTM 46.0° / 79.0°  
Efficiency 90 %  
Peak intensity 1.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

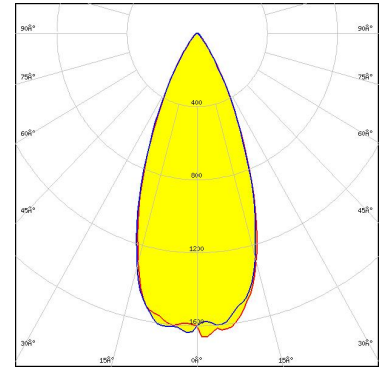


Light distribution files

#### OPTICAL RESULTS (SIMULATED):



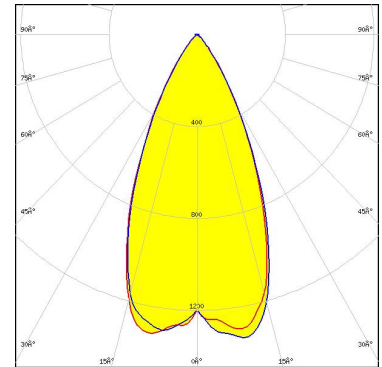
**LED** LUXEON CSP HL1  
**FWHM / FWTM** 42.0 + 44.0° / 70.0°  
**Efficiency** 95 %  
**Peak intensity** 1.7 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**



Light distribution files



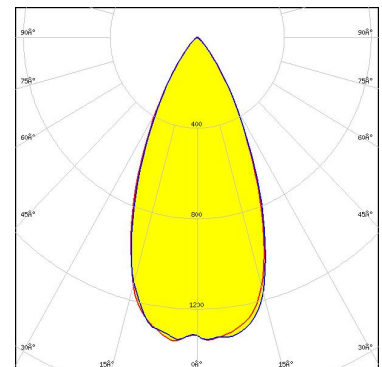
**LED** LUXEON HL1Z  
**FWHM / FWTM** 48.0° / 76.0 + 75.0°  
**Efficiency** 91 %  
**Peak intensity** 1.3 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**



Light distribution files



**LED** LUXEON HL2Z  
**FWHM / FWTM** 48.0° / 77.0°  
**Efficiency** 92 %  
**Peak intensity** 1.4 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**

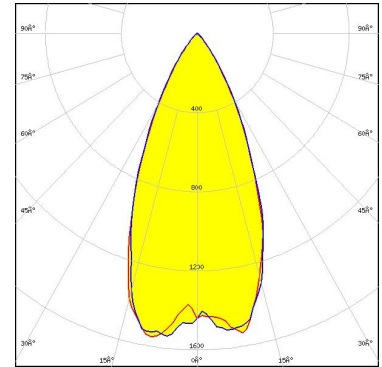


Light distribution files

#### OPTICAL RESULTS (SIMULATED):



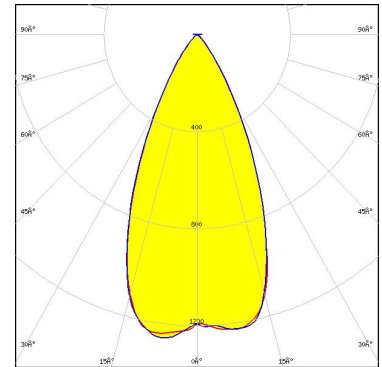
LED NCSxE17A  
FWHM / FWTM 46.0° / 74.0°  
Efficiency 88 %  
Peak intensity 1.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



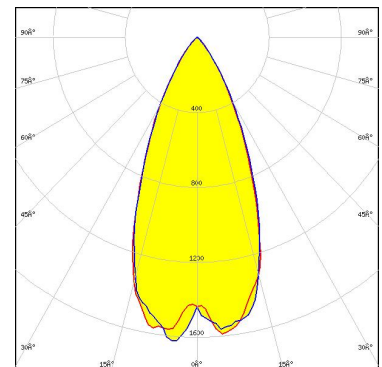
LED NFSWE11A  
FWHM / FWTM 48.0° / 75.0°  
Efficiency 85 %  
Peak intensity 1.3 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



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

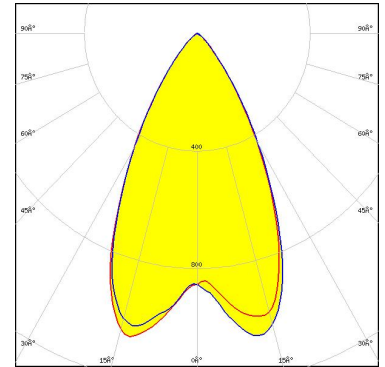


Light distribution files

#### OPTICAL RESULTS (SIMULATED):

**OSRAM**  
Opto Semiconductors

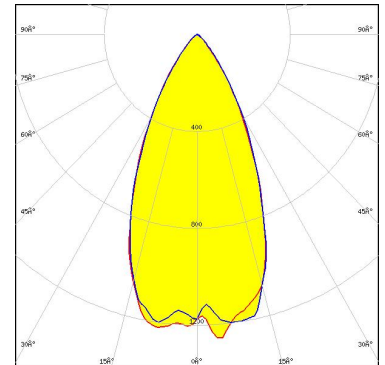
LED OSCONIQ C 2424  
FWHM / FWTM 56.0° / 84.0°  
Efficiency 91 %  
Peak intensity 1.1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

**SAMSUNG**

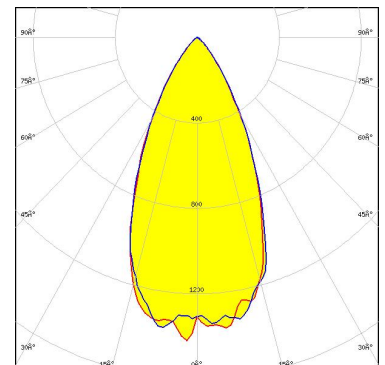
LED LH181B  
FWHM / FWTM 48.0° / 79.0°  
Efficiency 90 %  
Peak intensity 1.3 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

**SAMSUNG**

LED LH231B  
FWHM / FWTM 48.0° / 76.0°  
Efficiency 90 %  
Peak intensity 1.3 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



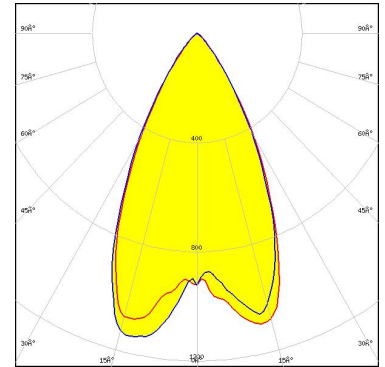
Light distribution files



#### OPTICAL RESULTS (SIMULATED):

### SAMSUNG

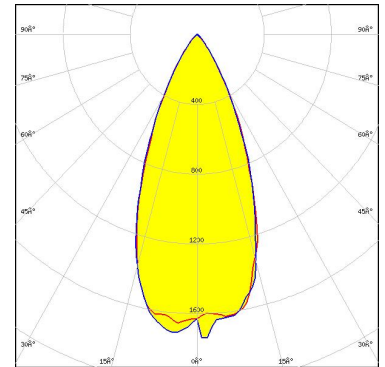
LED LM101B  
 FWHM / FWTM 53.0° / 80.0°  
 Efficiency 90 %  
 Peak intensity 1.2 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



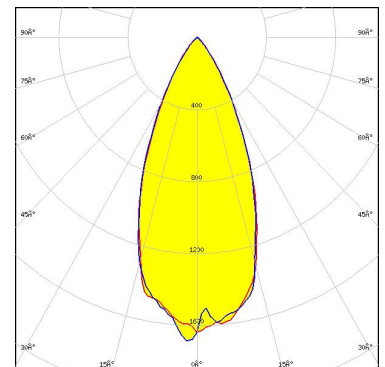
LED Z8Y15  
 FWHM / FWTM 44.0° / 53.0°  
 Efficiency 87 %  
 Peak intensity 1.6 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files




LED Z8Y19  
 FWHM / FWTM 45.0° / 73.0°  
 Efficiency 87 %  
 Peak intensity 1.5 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files

#### OPTICAL RESULTS (SIMULATED):

 SEUL SEMICONDUCTOR	
LED	Z8Y22
FWHM / FWTM	44.0° / 76.0°
Efficiency	86 %
Peak intensity	1.4 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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