

## LISA3CSP-O-PIN

~20° + 50° ovat beam

### SPECIFICATION:

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

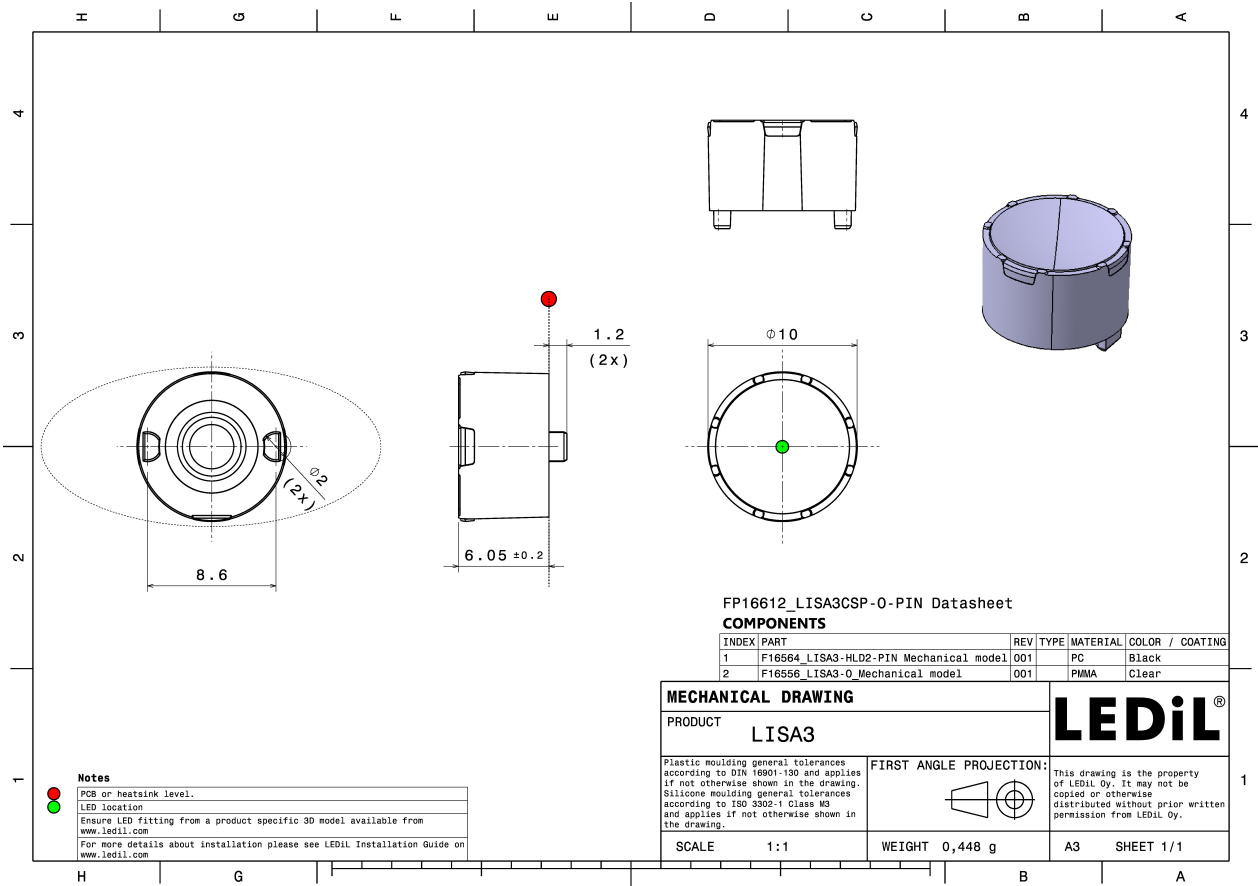
### MATERIALS:

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



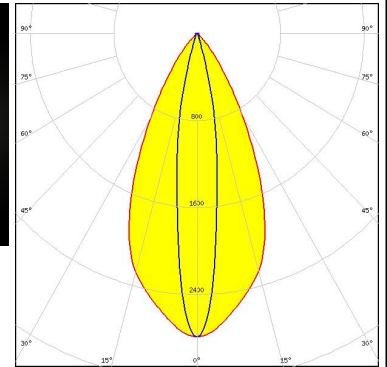
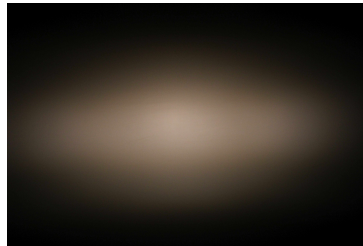


See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

#### OPTICAL RESULTS (MEASURED):



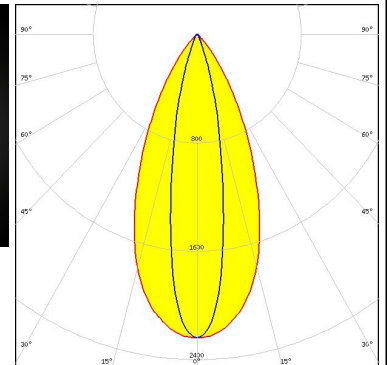
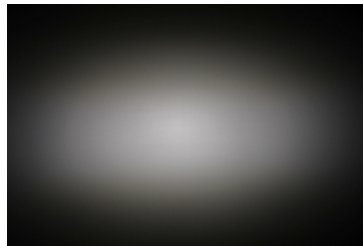
**LED** CSP 1111 (BXCP)  
**FWHM / FWTM** 50.0 + 16.0° / 78.0 + 33.0°  
**Efficiency** 77 %  
**Peak intensity** 2.8 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**



Light distribution files



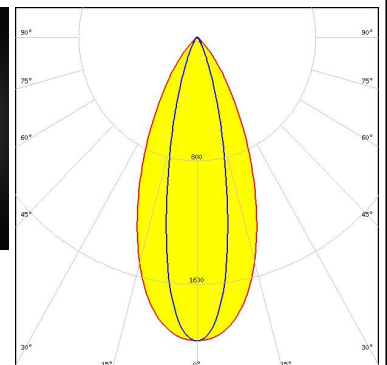
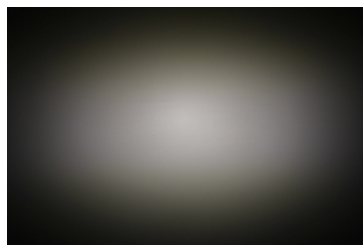
**LED** CSP 1919 (BXCP)  
**FWHM / FWTM** 47.0 + 21.0° / 79.0 + 41.0°  
**Efficiency** 79 %  
**Peak intensity** 2.2 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**



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:**

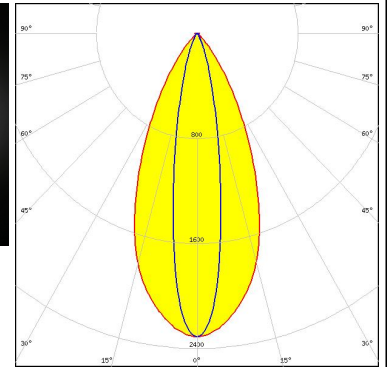


Light distribution files

#### OPTICAL RESULTS (MEASURED):



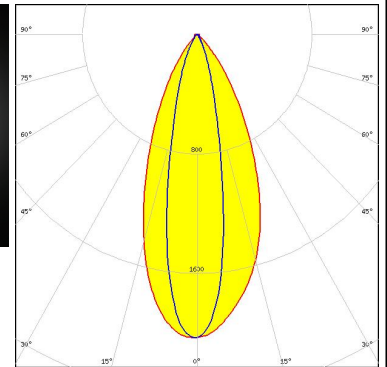
LED NCSxE17A  
 FWHM / FWTM 46.0 + 19.0° / 78.0 + 41.0°  
 Efficiency 77 %  
 Peak intensity 2.4 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



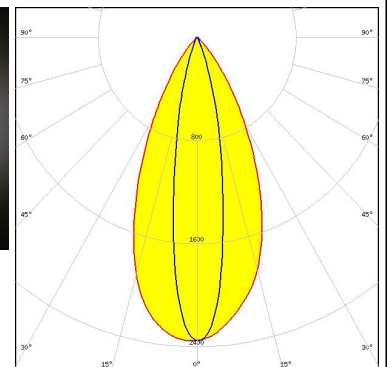
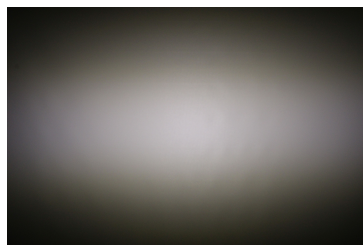
LED NVSxE21A  
 FWHM / FWTM 45.0 + 22.0° / 79.0 + 47.0°  
 Efficiency 76 %  
 Peak intensity 2 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



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:

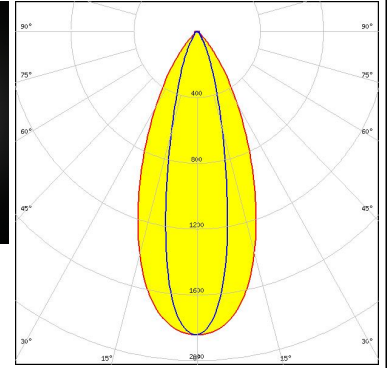


Light distribution files

#### 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:

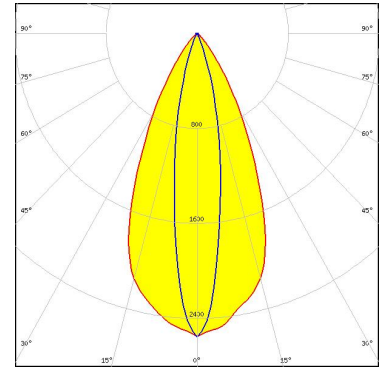


Light distribution files

#### OPTICAL RESULTS (SIMULATED):



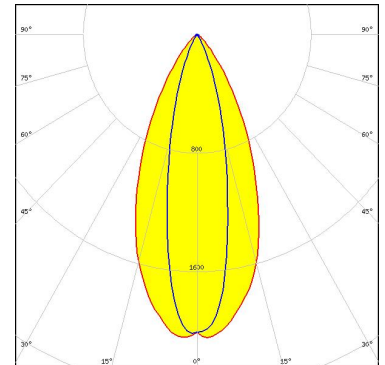
LED LUXEON HL1Z  
FWHM / FWTM 48.0 + 18.0° / 76.0 + 39.0°  
Efficiency 84 %  
Peak intensity 2.6 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



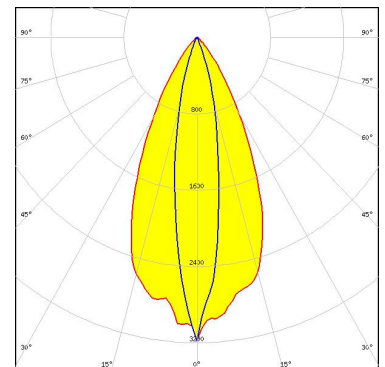
LED LUXEON HL2Z  
FWHM / FWTM 46.0 + 24.0° / 80.0 + 49.0°  
Efficiency 83 %  
Peak intensity 2.1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

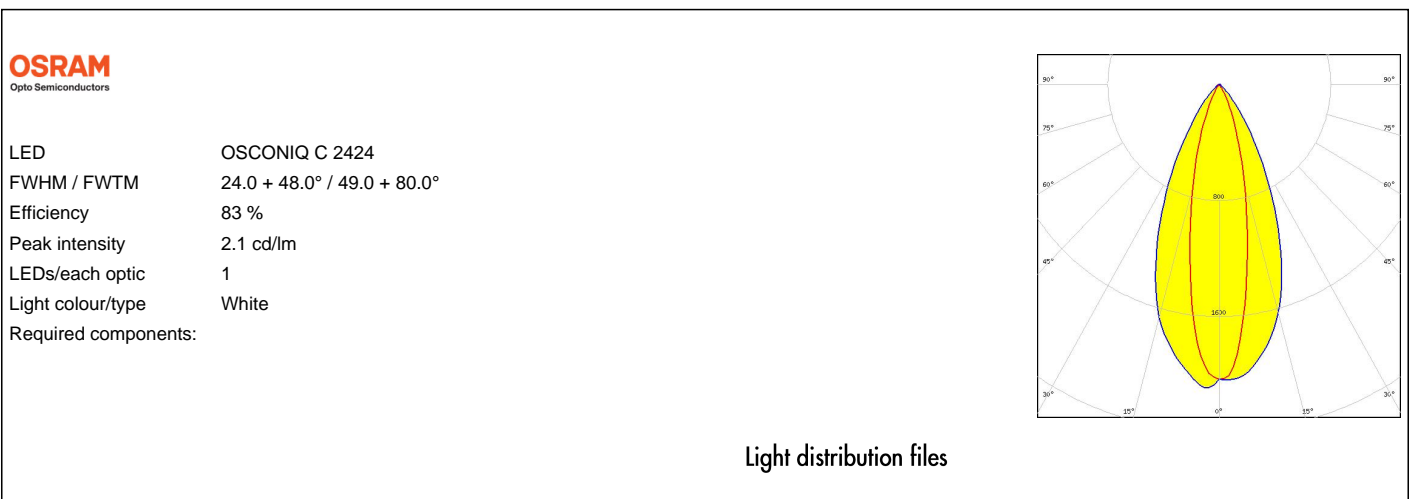
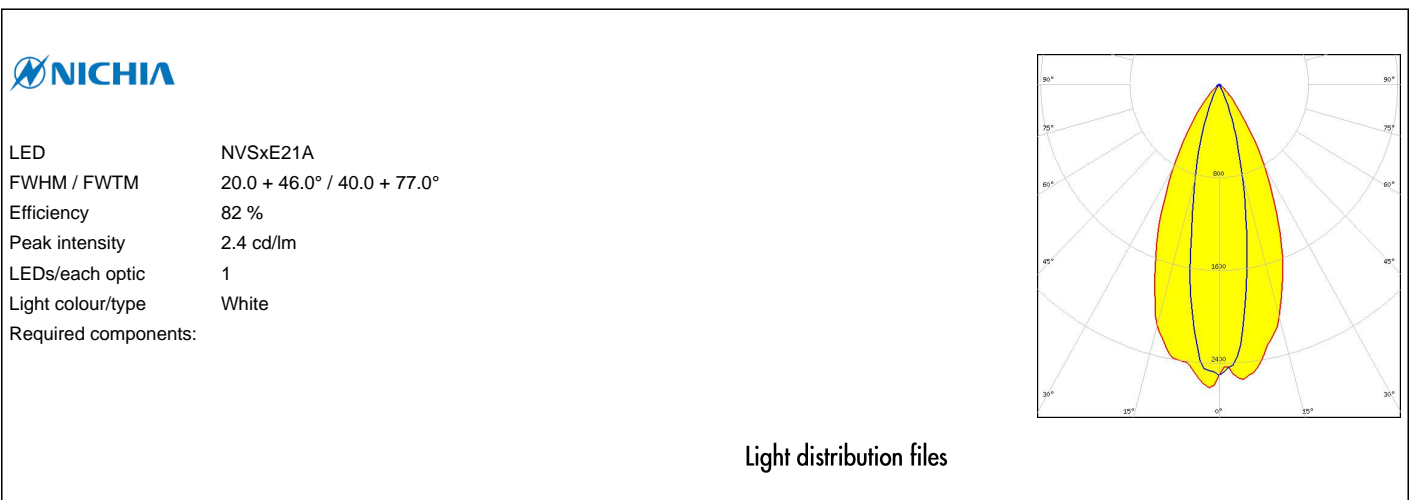
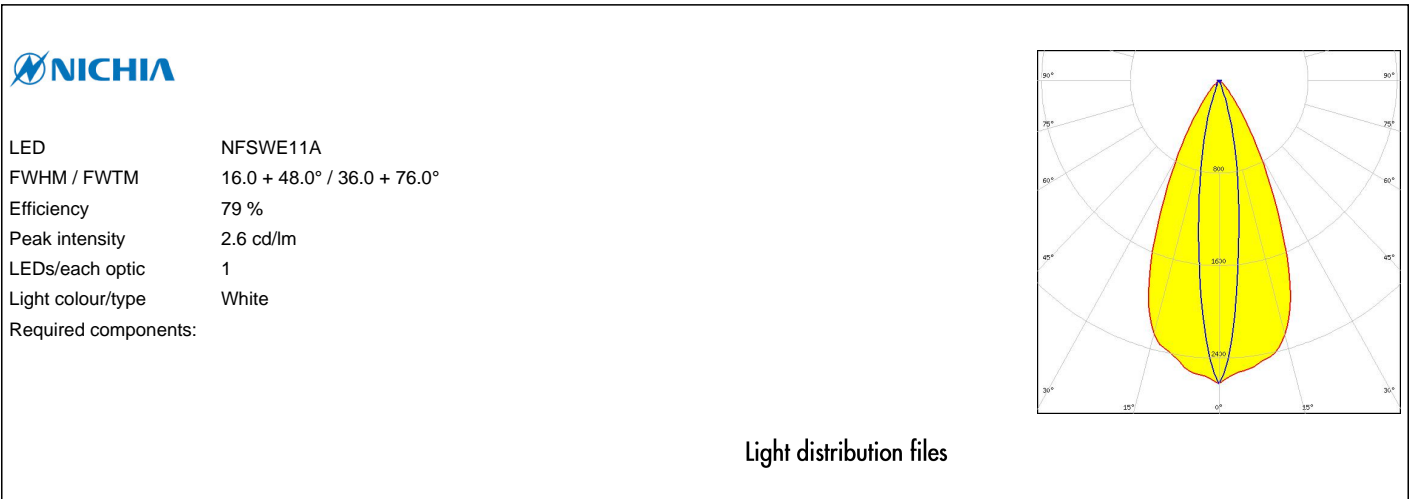


LED NCSxE17A  
FWHM / FWTM 17.0 + 48.0° / 39.0 + 80.0°  
Efficiency 82 %  
Peak intensity 2.6 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

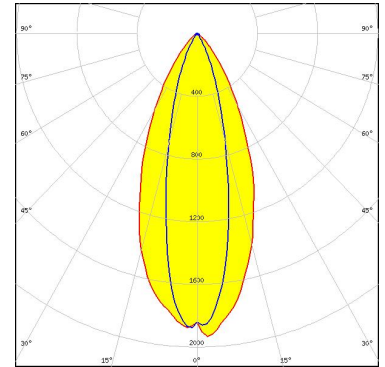
#### OPTICAL RESULTS (SIMULATED):



#### OPTICAL RESULTS (SIMULATED):

### SAMSUNG

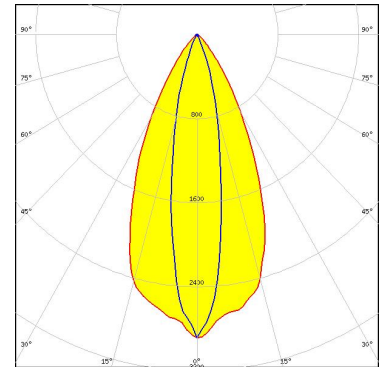
LED LH181B  
FWHM / FWTM 23.0 + 44.0° / 48.0 + 80.0°  
Efficiency 82 %  
Peak intensity 2 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



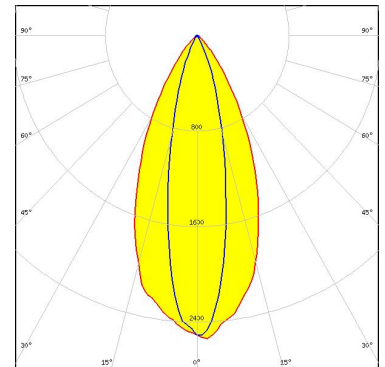
LED Z8Y15  
FWHM / FWTM 18.0 + 48.0° / 40.0 + 79.0°  
Efficiency 80 %  
Peak intensity 2.5 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



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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#### LEDiL Oy

Joensuunkatu 13  
FI-24240 SALO  
Finland

#### LEDiL Inc.

228 West Page Street  
Suite D  
Sycamore IL 60178  
USA

#### Ledil Optics Technology (Shenzhen) Co., Ltd.

# 405 , Block B  
Casic Motor Building  
Shenzhen 518057  
P.R.CHINA

#### Local sales and technical support

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