

## LISA3CSP-RS-PIN

~15° spot beam

## SPECIFICATION:

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

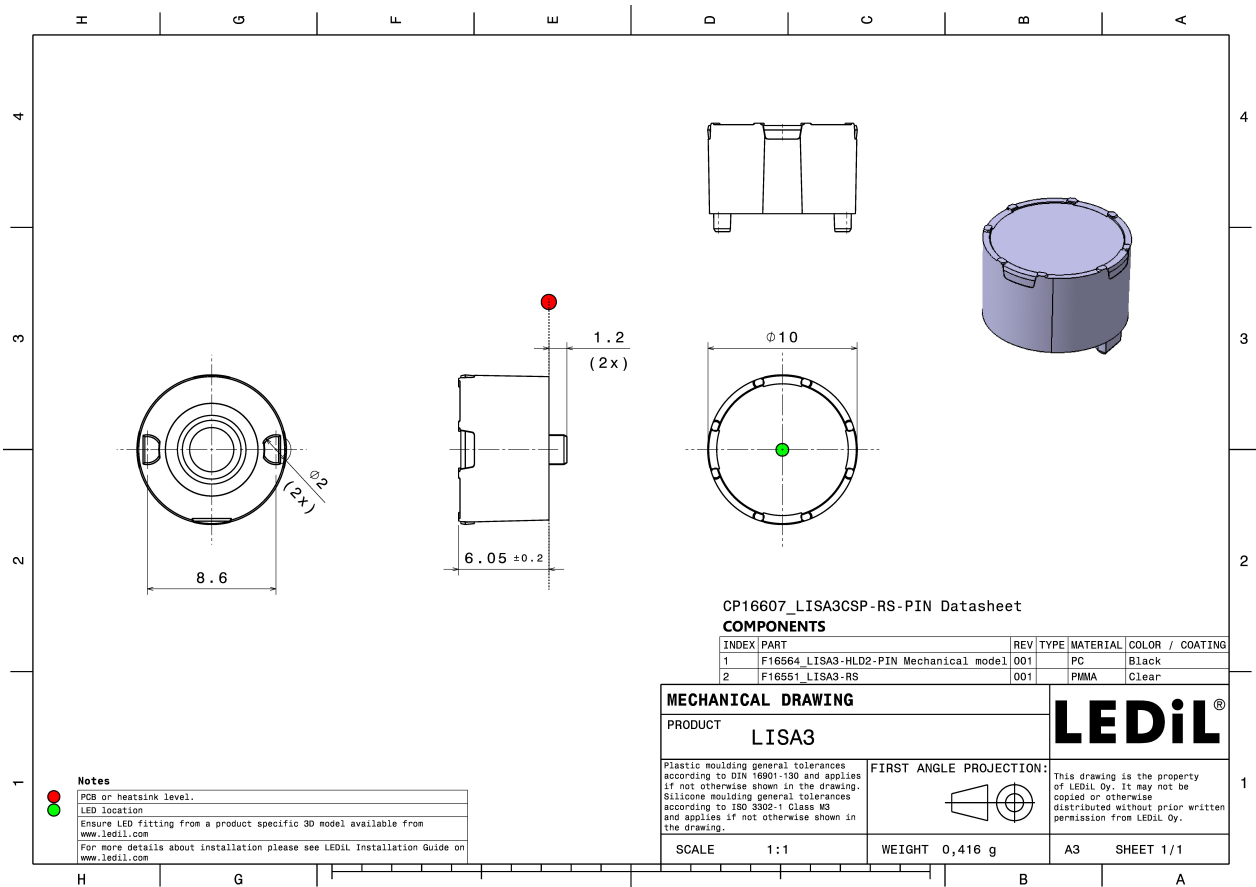
## MATERIALS:

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

## ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
FP16607_LISA3CSP-RS-PIN	Single lens	2000	300	100	1.2
» Box size: 310 x 230 x 60 mm					



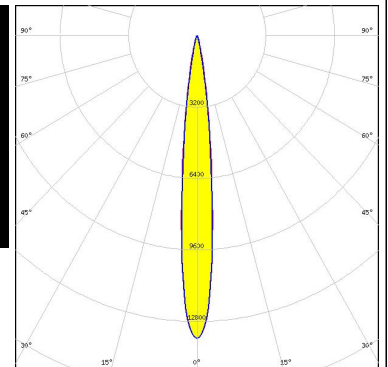


See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

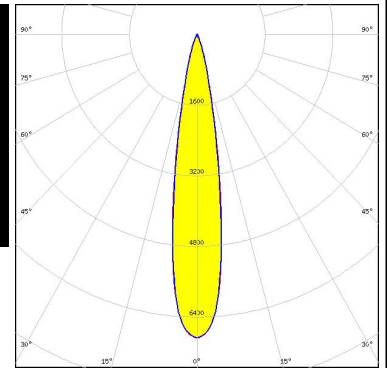
#### OPTICAL RESULTS (MEASURED):



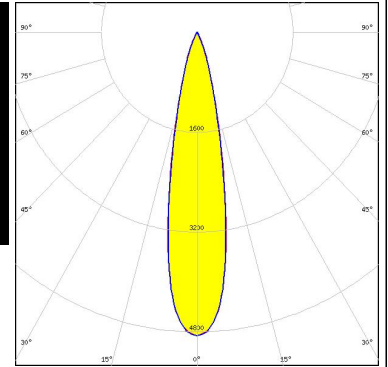
LED CSP 1111 (BXCP)  
 FWHM / FWTM 12.0° / 24.0°  
 Efficiency 88 %  
 Peak intensity 13.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



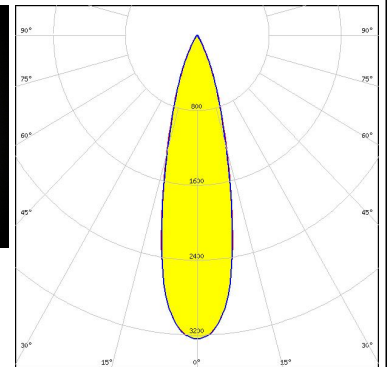
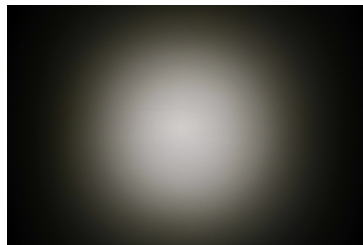
LED CSP 1919 (BXCP)  
 FWHM / FWTM 18.0° / 34.0°  
 Efficiency 90 %  
 Peak intensity 6.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED CSP 2323 (BXCP)  
 FWHM / FWTM 22.0° / 42.0°  
 Efficiency 90 %  
 Peak intensity 4.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



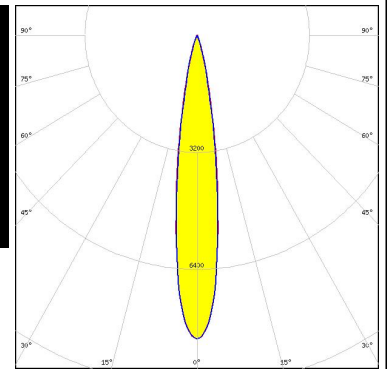
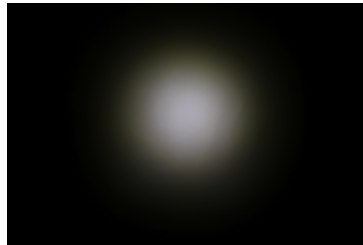
LED CSP 2727 (BXCP)  
 FWHM / FWTM 26.0° / 51.0°  
 Efficiency 90 %  
 Peak intensity 3.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



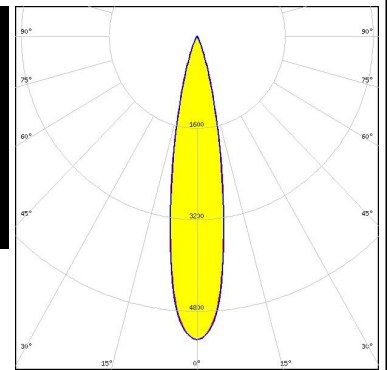
#### OPTICAL RESULTS (MEASURED):



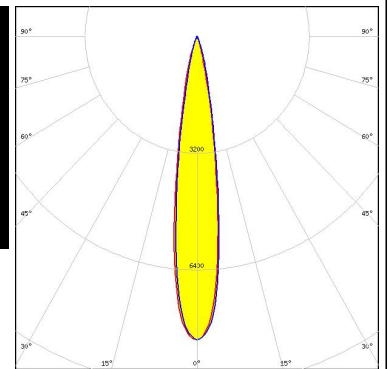
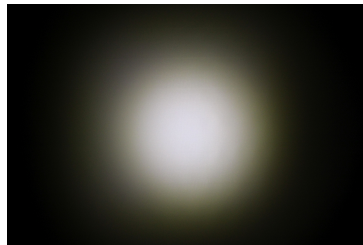
LED NCSxE17A  
FWHM / FWTM 16.0° / 31.0°  
Efficiency 89 %  
Peak intensity 8.4 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



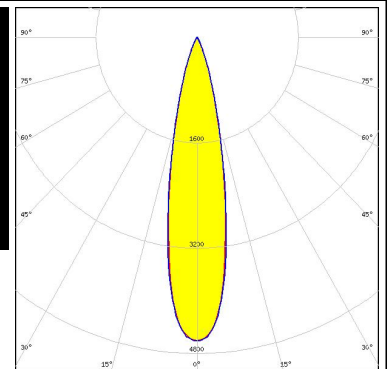
LED NVSxE21A  
FWHM / FWTM 21.0° / 39.0°  
Efficiency 89 %  
Peak intensity 5.3 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



LED LH151B  
FWHM / FWTM 16.0° / 31.0°  
Efficiency 89 %  
Peak intensity 8.3 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



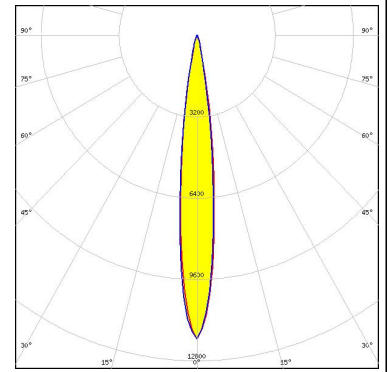
LED LH181B  
FWHM / FWTM 22.0° / 42.0°  
Efficiency 89 %  
Peak intensity 4.6 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



#### OPTICAL RESULTS (SIMULATED):

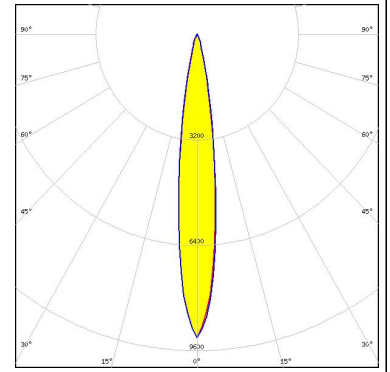
##### LUMILEDS

LED LUXEON CSP HL1  
FWHM / FWTM 13.0° / 26.0 + 25.0°  
Efficiency 95 %  
Peak intensity 11.9 cd/Im  
LEDs/each optic 1  
Light colour White  
Required components:



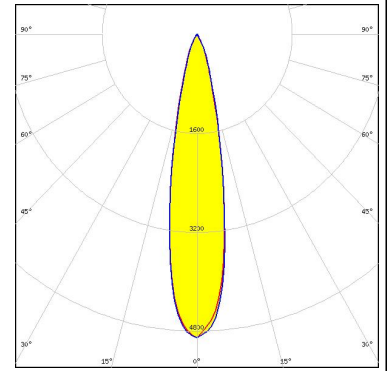
##### LUMILEDS

LED LUXEON HL1Z  
FWHM / FWTM 14.0° / 29.0°  
Efficiency 90 %  
Peak intensity 9.2 cd/Im  
LEDs/each optic 1  
Light colour White  
Required components:



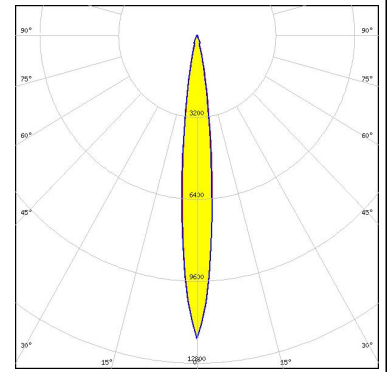
##### LUMILEDS

LED LUXEON HL2Z  
FWHM / FWTM 20.0° / 42.0°  
Efficiency 91 %  
Peak intensity 4.9 cd/Im  
LEDs/each optic 1  
Light colour White  
Required components:



##### NICHIA

LED NFSWE11A  
FWHM / FWTM 12.0° / 25.0°  
Efficiency 84 %  
Peak intensity 11.9 cd/Im  
LEDs/each optic 1  
Light colour White  
Required components:

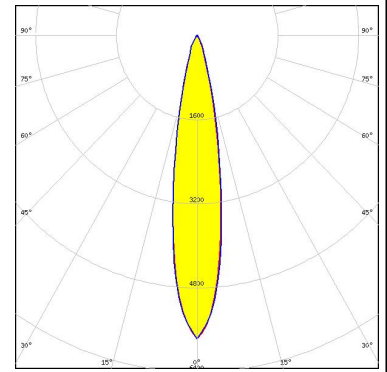


#### OPTICAL RESULTS (SIMULATED):

##### OSRAM

Opto Semiconductors

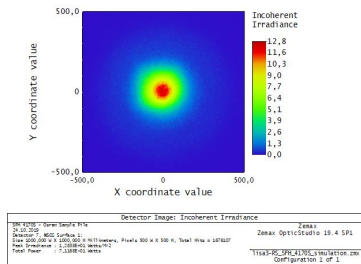
LED OSCONIQ C 2424  
FWHM / FWTM 18.0° / 38.0°  
Efficiency 90 %  
Peak intensity 5.8 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



##### OSRAM

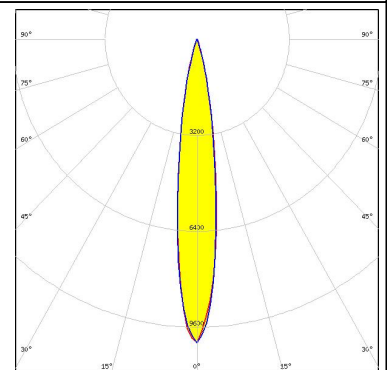
Opto Semiconductors

LED SFH 4170S  
FWHM / FWTM 16.0°  
Efficiency 76 %  
LEDs/each optic 1  
Light colour IR  
Required components:



##### SAMSUNG

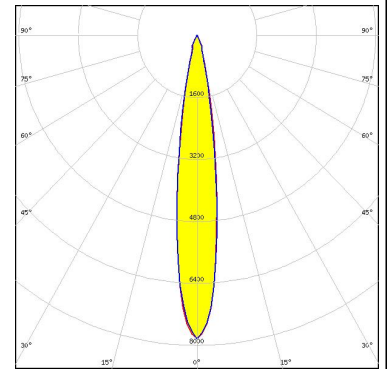
LED LM101B  
FWHM / FWTM 14.0° / 30.0°  
Efficiency 89 %  
Peak intensity 8.8 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



##### SEOL

SEOUL SEMICONDUCTOR

LED Z8Y11  
FWHM / FWTM 16.0° / 30.0°  
Efficiency 81 %  
Peak intensity 7.9 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



## OPTICAL RESULTS (SIMULATED):



### 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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