

### LISA

Miniature TIR-lenses for jewellery shops, reading lights, torches and head lamps.

LISA series of lenses, measuring less than 10 mm in diameter and less than 7 mm tall, achieves up to 90 % light transmission efficiency through superior design and materials. Each lens is mounted in a molded polycarbonate (PC) housing and attaches to the PCB by means of locating pins or optional mounting clips and is built to maintain its physical integrity over the usable life of the luminaire.

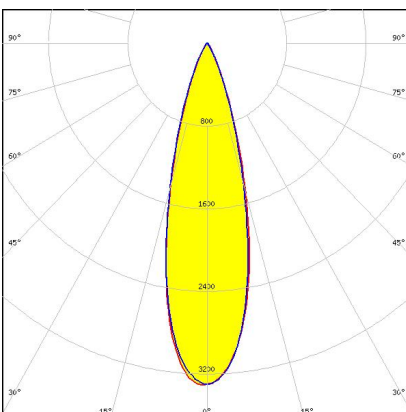
### LISA3CSP

Ø10.0 mm variant with glue mounting for top side emitting CSP LEDs



### PRODUCTS:

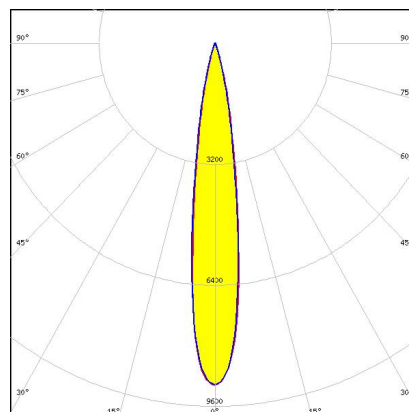
FP18201\_LISA3CSP-M-CLIP16



**Dimensions: 10.0 mm x 10.0 mm**  
**Height: 7.20 mm**

~25° medium beam with clip installation.

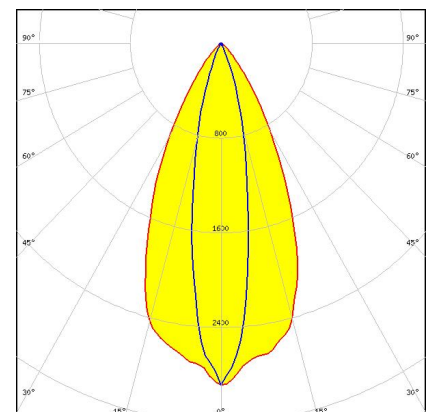
FP18199\_LISA3CSP-RS-CLIP16



**Dimensions: 10.0 mm x 10.0 mm**  
**Height: 7.20 mm**

~15° spot beam with clip installation.

FP16612\_LISA3CSP-O-PIN

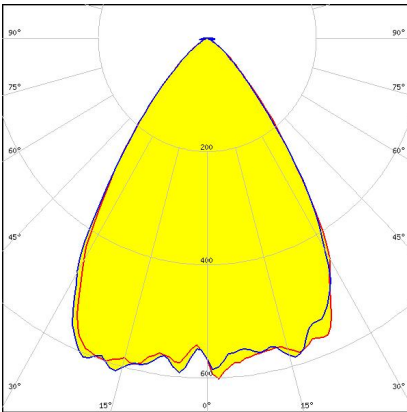


**Dimensions: 10.0 mm x 10.0 mm**  
**Height: 7.20 mm**

~20° + 50° ovate beam

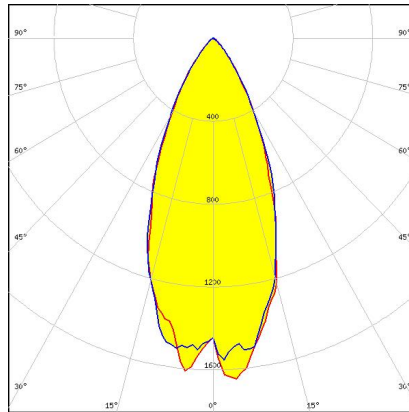
### PRODUCTS:

FP16611\_LISA3CSP-WWW-PIN



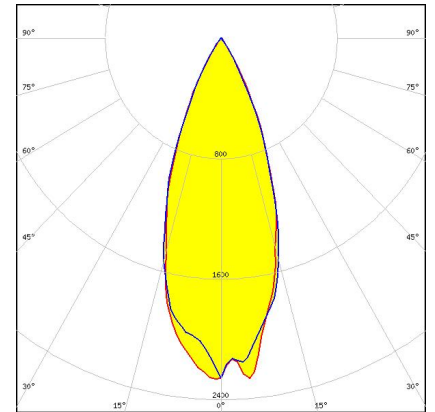
**Dimensions: 10.0 mm x 10.0 mm**  
**Height: 7.20 mm**  
~60° wide beam

FP16610\_LISA3CSP-WW-PIN



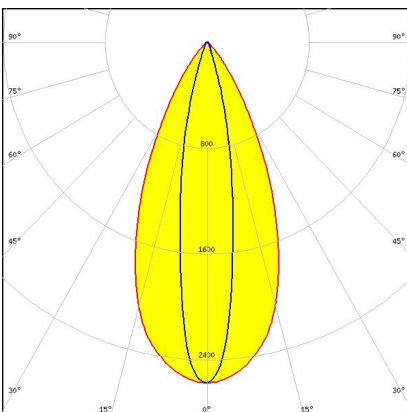
**Dimensions: 10.0 mm x 10.0 mm**  
**Height: 7.20 mm**  
~45° wide beam

FP16609\_LISA3CSP-W-PIN



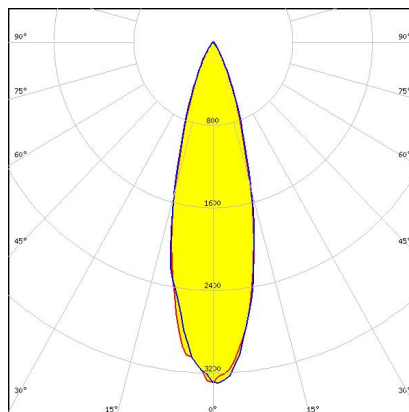
**Dimensions: 10.0 mm x 10.0 mm**  
**Height: 7.20 mm**  
~35° wide beam

FP18209\_LISA3CSP-O-CLIP16



**Dimensions: 10.0 mm x 10.0 mm**  
**Height: 7.20 mm**  
~15° x 50° oval beam with clip installation.

FP16608\_LISA3CSP-M-PIN



**Dimensions: 10.0 mm x 10.0 mm**  
**Height: 7.20 mm**  
~25° medium beam

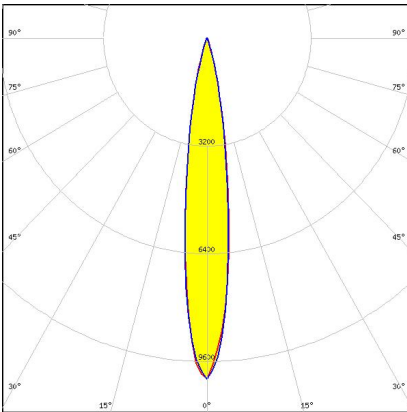
FP18207\_LISA3CSP-WWW-CLIP16



**Dimensions: 10.0 mm x 10.0 mm**  
**Height: 7.20 mm**  
~60° wide beam with clip installation.

### PRODUCTS:

FP16607\_LISA3CSP-RS-PIN

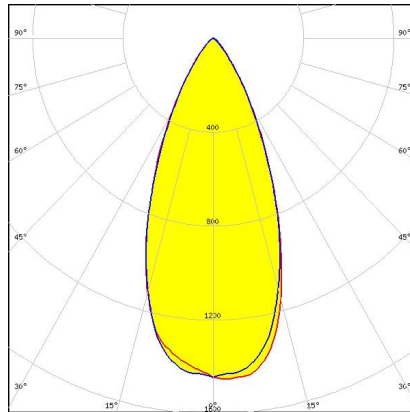


**Dimensions: 10.0 mm x 10.0 mm**

**Height: 7.20 mm**

~15° spot beam

FP18205\_LISA3CSP-WW-CLIP16

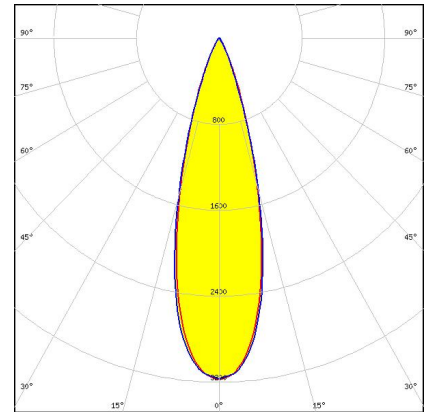


**Dimensions: 10.0 mm x 10.0 mm**

**Height: 7.20 mm**

~45° wide beam with clip installation.

FP18203\_LISA3CSP-W-CLIP16



**Dimensions: 10.0 mm x 10.0 mm**

**Height: 7.20 mm**

~35° wide beam with clip installation.

### 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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