

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.

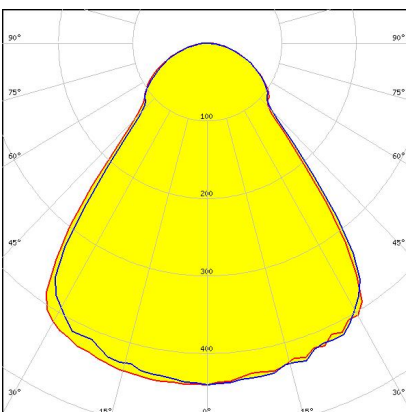
LISA2

Ø9.9 mm variant with glue or clip mounting for up to 3535 size LED packages



PRODUCTS:

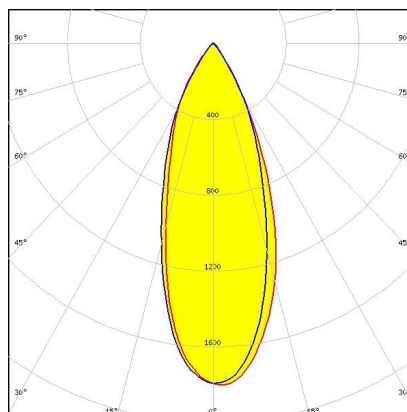
C12469_LISA2-R-PIN



Dimensions: 9.9 mm x 9.9 mm
Height: 6.60 mm

White mini reflector with ~80° wide beam.
6.5 mm high with location pin installation.

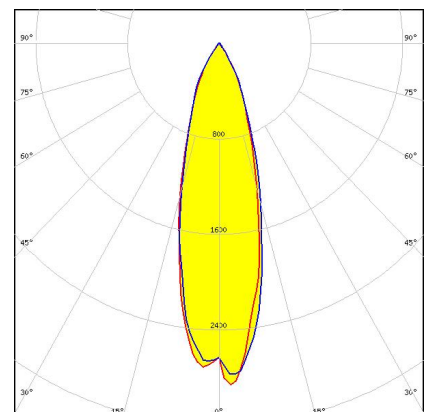
FP10993_LISA2-W-PIN



Dimensions: 9.9 mm x 9.9 mm
Height: 6.60 mm

~35° wide beam optimized for LUXEON
Rebel. 6.6 mm high variant with location
pin installation.

FP11082_LISA2-W-CLIP



Dimensions: 9.9 mm x 9.9 mm
Height: 6.60 mm

~35° wide beam optimized for 3535 size
LED packages. 6.6 mm high variant with
clip installation.

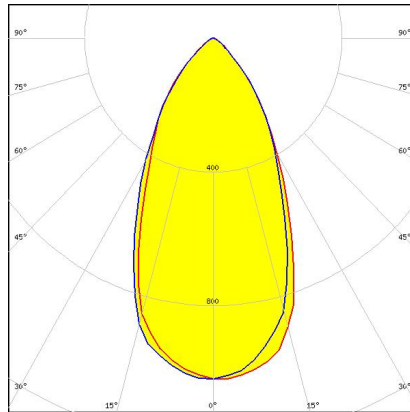
PRODUCTS:

FP11952_LISA2-WWW-CLIP

Dimensions: 9.9 mm x 9.9 mm
Height: 6.60 mm

~80° wide beam optimized for LUXEON Rebel. 6.6 mm high variant with clip installation.

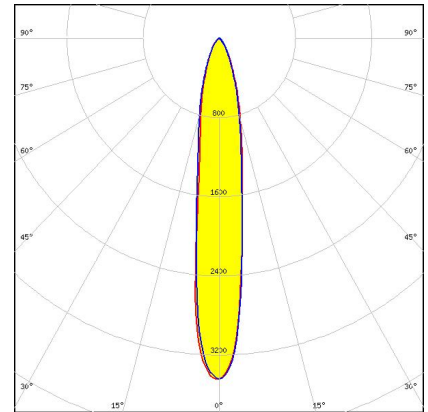
FP10997_LISA2-WW-PIN



Dimensions: 9.9 mm x 9.9 mm
Height: 7.00 mm

~45° wide beam. 7.0 mm high variant with location pin installation.

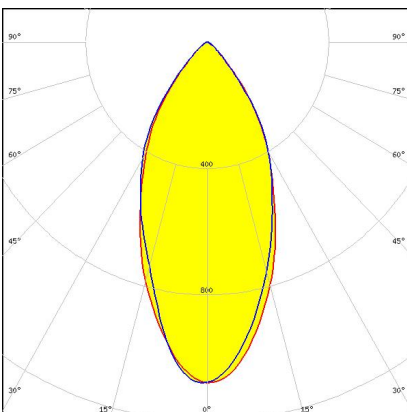
FP11086_LISA2-RS-CLIP



Dimensions: 9.9 mm x 9.9 mm
Height: 6.60 mm

~19° spot beam optimized for LUXEON Rebel. 6.6 mm high variant with clip installation.

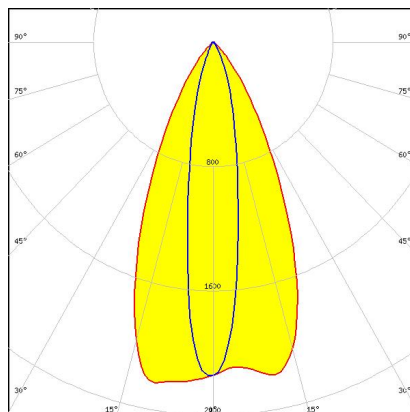
FP11003_LISA2-WW-PIN



Dimensions: 9.9 mm x 9.9 mm
Height: 6.81 mm

~45° wide beam optimized for 3535 size LED packages. 6.8 mm high variant with location pin installation.

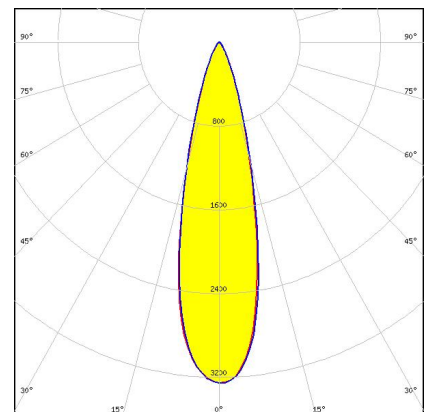
FP11122_LISA2-O-CLIP



Dimensions: 9.9 mm x 9.9 mm
Height: 6.60 mm

~45° x 20° oval beam optimized for LUXEON Rebel. 6.6 mm high variant with clip installation.

FP13028_LISA2-M-PIN

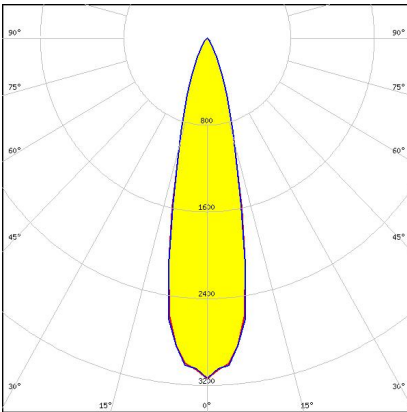


Dimensions: 9.9 mm x 9.9 mm
Height: 6.80 mm

~20° medium beam. 6.8 mm high variant with location pin installation.

PRODUCTS:

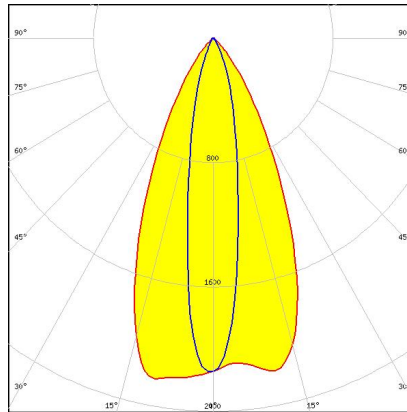
FP11056_LISA2-RS-PIN



Dimensions: 9.9 mm x 9.9 mm
Height: 6.60 mm

~19° spot beam optimized for LUXEON Rebel. 6.6 mm high variant with location pin installation.

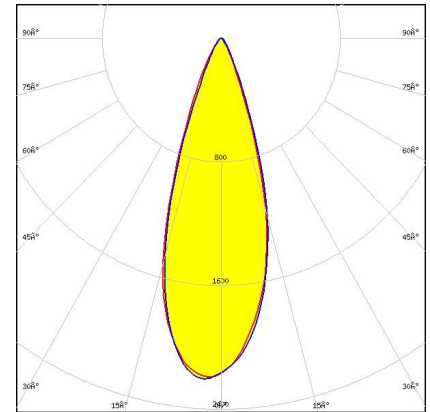
FP11126_LISA2-O-PIN



Dimensions: 9.9 mm x 9.9 mm
Height: 6.60 mm

~45° x 20° oval beam optimized for LUXEON Rebel. 6.6 mm high variant with location pin installation.

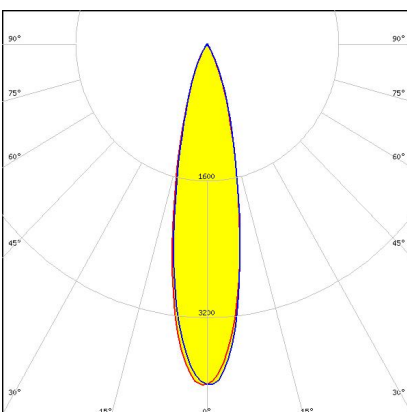
FP13031_LISA2-W-CLIP



Dimensions: 9.9 mm x 9.9 mm
Height: 6.80 mm

~35° wide beam optimized for CREE XP-E. 6.8 mm high variant with clip installation.

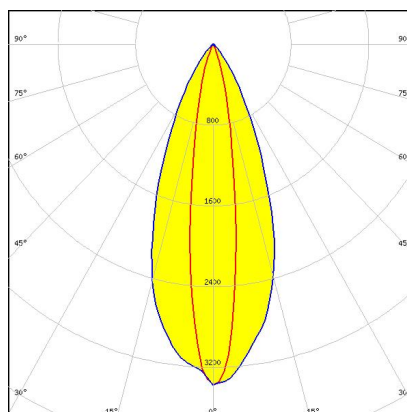
FP11075_LISA2-M-CLIP



Dimensions: 9.9 mm x 9.9 mm
Height: 6.80 mm

~20° medium beam optimized for CREE XP-E. 6.8 mm high variant with clip installation.

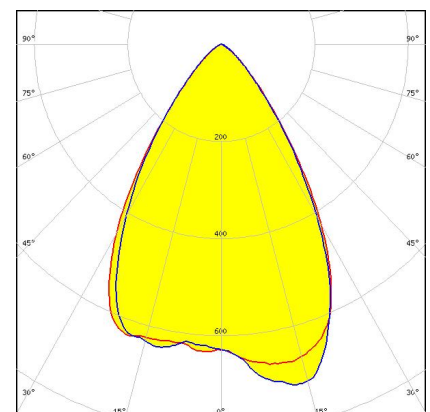
FP11851_LISA2-O-90-PIN



Dimensions: 9.9 mm x 9.9 mm
Height: 6.80 mm

~20° x 50° oval beam. Variant with beam direction rotated 90°. 6.8 mm high variant with location pin installation.

FP14766_LISA2-WWX-PIN

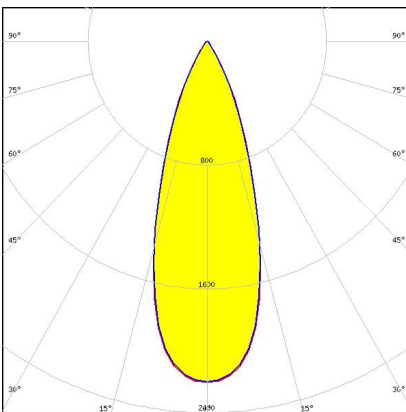


Dimensions: 9.9 mm x 9.9 mm
Height: 7.00 mm

~60° wide beam optimized for 3535 size LED packages. 7.0 mm high variant with location pin installation.

PRODUCTS:

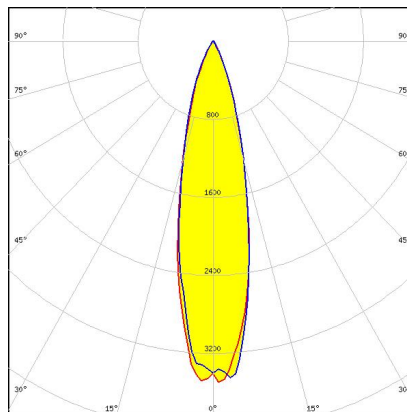
FP10992_LISA2-M-PIN



Dimensions: 9.9 mm x 9.9 mm
Height: 6.60 mm

~20° medium beam optimized for LUXEON Rebel. 6.6 mm high variant with location pin installation.

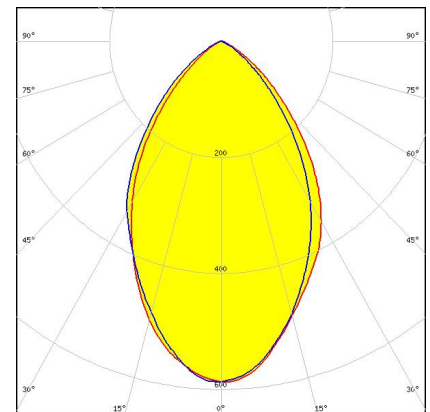
FP11081_LISA2-M-CLIP



Dimensions: 9.9 mm x 9.9 mm
Height: 6.60 mm

~20° medium beam optimized for 3535 size LED packages.. 6.6 mm high variant with clip installation.

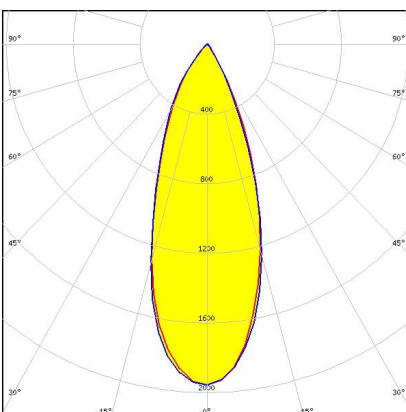
FP11951_LISA2-WWW-PIN



Dimensions: 9.9 mm x 9.9 mm
Height: 6.60 mm

~80° wide beam optimized for LUXEON Rebel. 6.6 mm high variant with location pin installation.

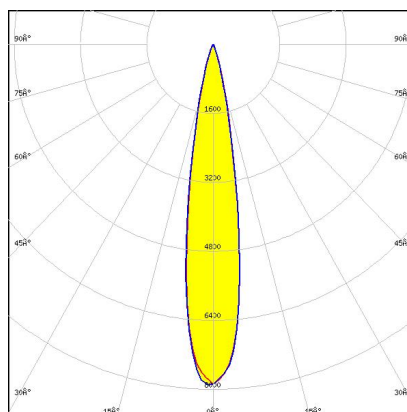
FP10996_LISA2-W-PIN



Dimensions: 9.9 mm x 9.9 mm
Height: 6.80 mm

~35° wide beam. 6.8 mm high variant with location pin installation.

FP11085_LISA2-RS-CLIP



Dimensions: 9.9 mm x 9.9 mm
Height: 6.80 mm

~19° spot beam optimized for CREE XP-E. 6.8 mm high variant with clip installation.

FP11958_LISA2-WWW-CLIP

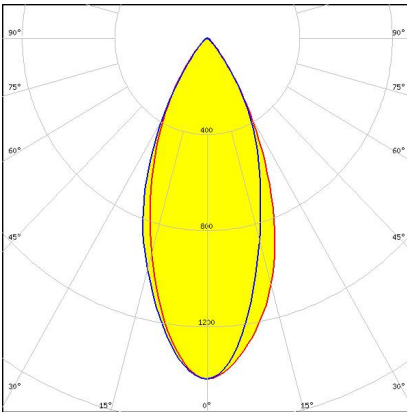


Dimensions: 9.9 mm x 9.9 mm
Height: 6.60 mm

~80° wide beam optimized for 3535 size LED packages. 6.6 mm high variant with clip installation.

PRODUCTS:

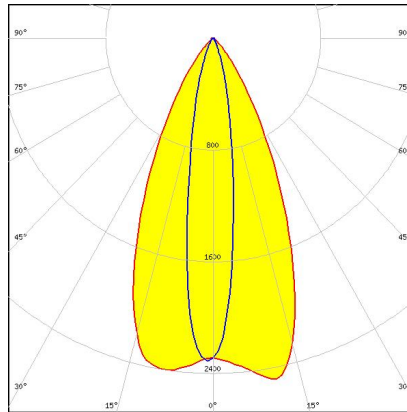
FP11002_LISA2-W-PIN



Dimensions: 9.9 mm x 9.9 mm
Height: 6.60 mm

~35° wide beam optimized for 3535 size LED packages. 6.6 mm high variant with location pin installation.

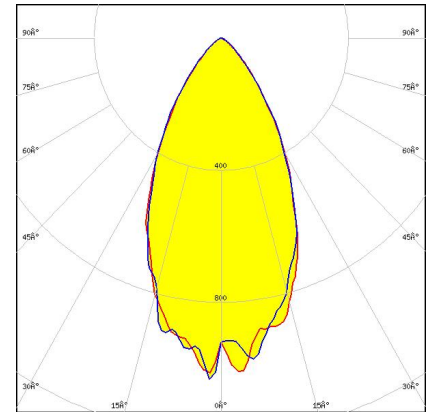
FP11121_LISA2-O-CLIP



Dimensions: 9.9 mm x 9.9 mm
Height: 6.80 mm

~45° x 20° oval beam optimized for CREE XP-E. 6.8 mm high variant with clip installation.

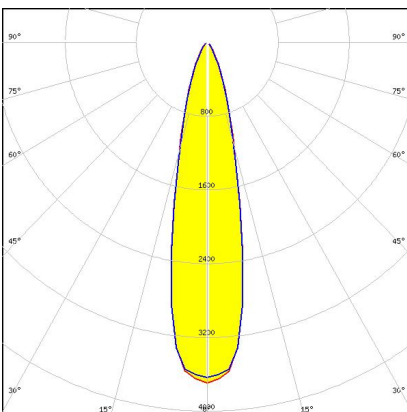
FP13026_LISA2-WW-PIN



Dimensions: 9.9 mm x 9.9 mm
Height: 6.80 mm

~45° wide beam. 6.8 mm high variant with location pin installation.

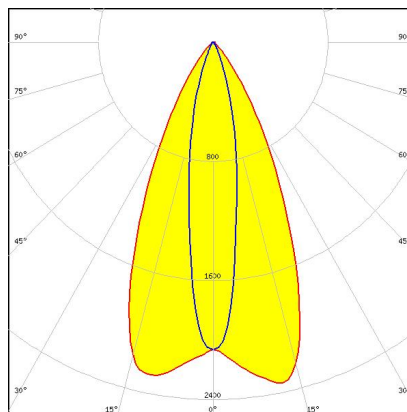
FP11055_LISA2-RS-PIN



Dimensions: 9.9 mm x 9.9 mm
Height: 6.80 mm

~19° spot beam. 6.8 mm high variant with location pin installation.

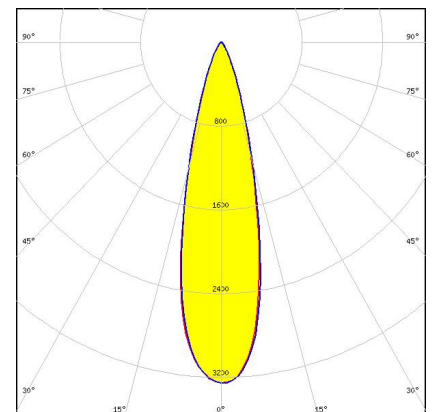
FP11125_LISA2-O-PIN



Dimensions: 9.9 mm x 9.9 mm
Height: 6.80 mm

~45° x 20° oval beam. 6.8 mm high variant with location pin installation.

FP13030_LISA2-M-CLIP

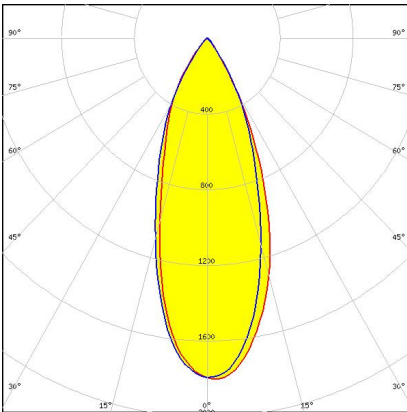


Dimensions: 9.9 mm x 9.9 mm
Height: 6.80 mm

~20° medium beam optimized for CREE XP-E. 6.8 mm high variant with clip installation.

PRODUCTS:

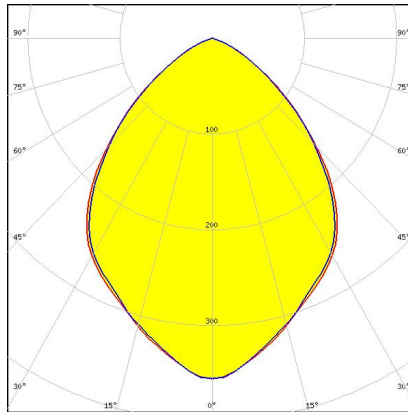
FP11073_LISA2-W-CLIP



Dimensions: 9.9 mm x 9.9 mm
Height: 6.60 mm

~35° wide beam optimized for LUXEON Rebel. 6.6 mm high variant with clip installation.

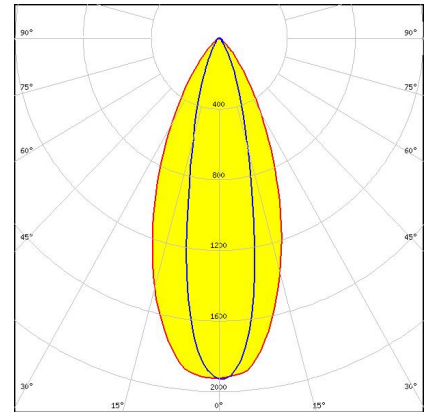
FP11431_LISA2-WWW-CLIP



Dimensions: 9.9 mm x 9.9 mm
Height: 7.00 mm

~80° wide beam optimized for CREE XP-E. 7.0 mm high variant with clip installation.

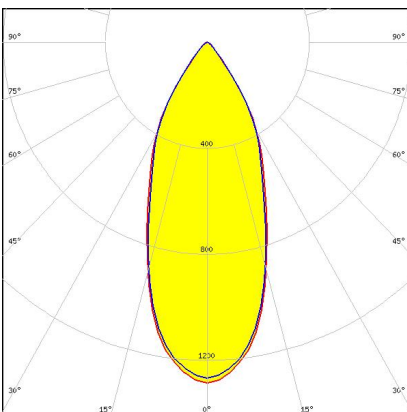
FP14415_LISA2-O-CLIP



Dimensions: 10.0 mm x 10.0 mm
Height: 6.81 mm

~45° x 20° oval beam optimized for CREE XP-E. 7.13 mm high variant with clip installation.

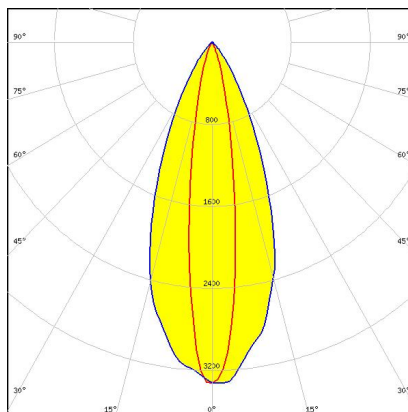
FP11077_LISA2-WW-CLIP



Dimensions: 9.9 mm x 9.9 mm
Height: 6.80 mm

~45° wide beam optimized for CREE XP-E. 6.8 mm high variant with clip installation.

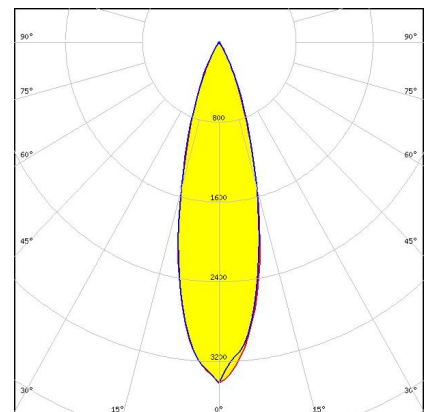
FP11856_LISA2-O-90-CLIP



Dimensions: 9.9 mm x 9.9 mm
Height: 6.80 mm

~20° x 50° turned oval beam optimized for CREE XP-E. 6.8 mm high variant with clip installation.

FP10995_LISA2-M-PIN

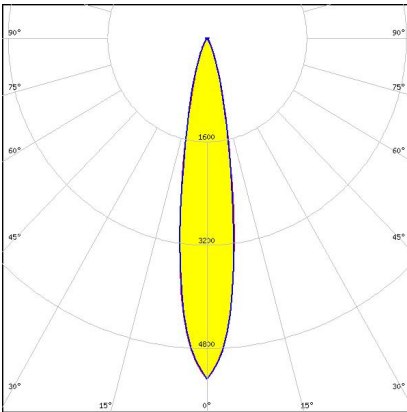


Dimensions: 9.9 mm x 9.9 mm
Height: 6.80 mm

~20° medium beam. 6.8 mm high variant with location pin installation.

PRODUCTS:

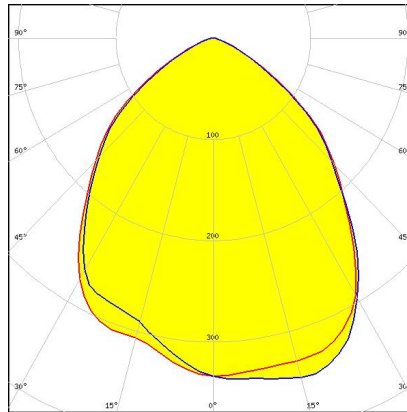
FP11084_LISA2-RS-CLIP



Dimensions: 9.9 mm x 9.9 mm
Height: 6.60 mm

~19° spot beam optimized for 3535 size LED packages. 6.6 mm high variant with clip installation.

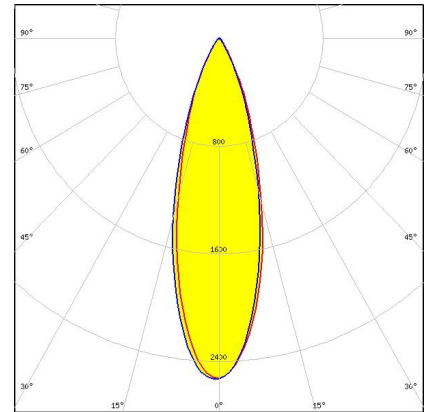
FP11957_LISA2-WWW-PIN



Dimensions: 9.9 mm x 9.9 mm
Height: 6.65 mm

~80° wide beam optimized for 3535 size LED packages. 6.6 mm high variant with location pin installation.

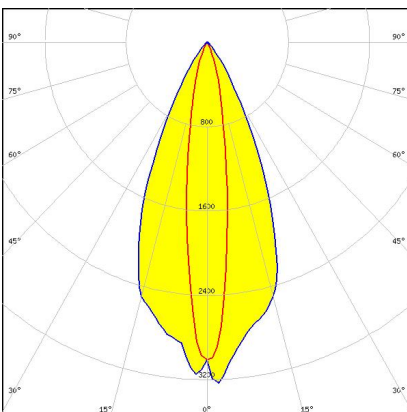
FP11001_LISA2-M-PIN



Dimensions: 9.9 mm x 9.9 mm
Height: 6.65 mm

~20° medium beam optimized for 3535 size LED packages. 6.6 mm high variant with location pin installation.

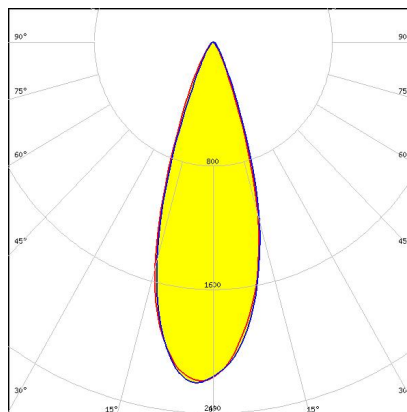
FP11120_LISA2-O-CLIP



Dimensions: 9.9 mm x 9.9 mm
Height: 6.60 mm

~45° x 20° oval beam optimized for 3535 size LED packages. 6.6 mm high variant with clip installation.

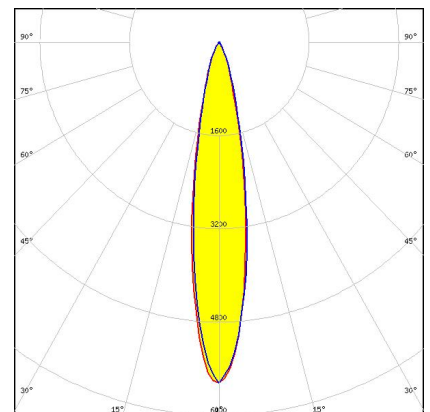
FP13025_LISA2-W-PIN



Dimensions: 10.0 mm x 10.0 mm
Height: 6.80 mm

~35° wide beam. 6.8 mm high variant with location pin installation.

FP11047_LISA2-RS-PIN

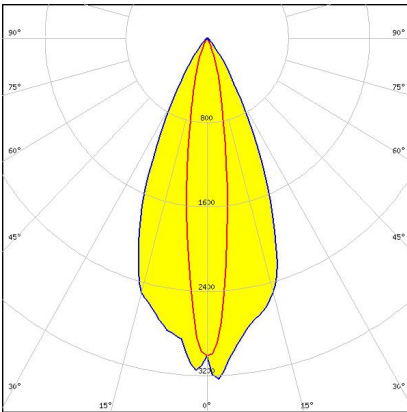


Dimensions: 9.9 mm x 9.9 mm
Height: 6.70 mm

~19° spot beam optimized for 3535 size LED packages. 6.6 mm high variant with location pin installation.

PRODUCTS:

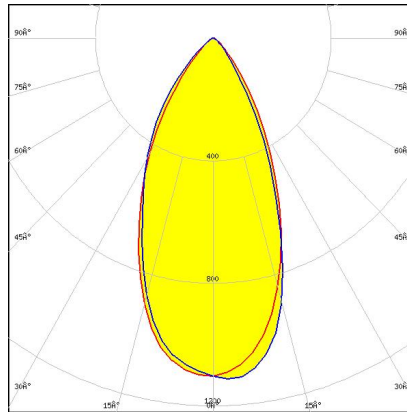
FP11124_LISA2-O-PIN



Dimensions: 9.9 mm x 9.9 mm
Height: 6.65 mm

~45° x 20° oval beam optimized for 3535 size LED packages. mm high variant with location pin installation.

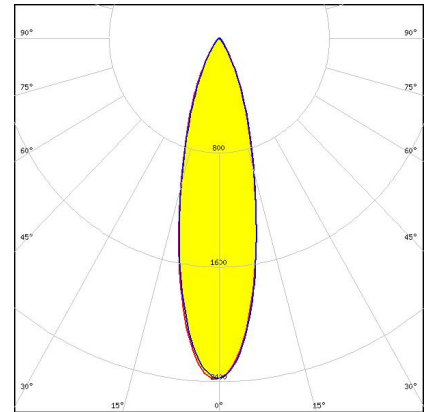
FP13029_LISA2-WW-CLIP



Dimensions: 9.9 mm x 9.9 mm
Height: 6.80 mm

~45° wide beam optimized for CREE XP-E. 6.8 mm high variant with clip installation.

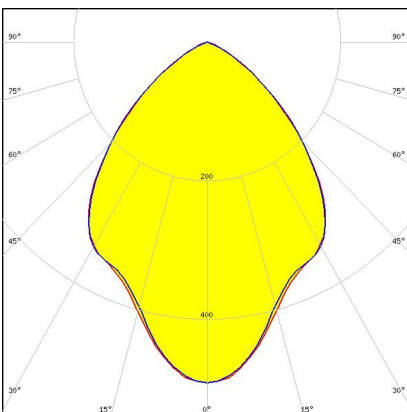
FP11072_LISA2-M-CLIP



Dimensions: 9.9 mm x 9.9 mm
Height: 6.60 mm

~20° medium beam optimized for LUXEON Rebel. 6.6 mm high variant with clip installation.

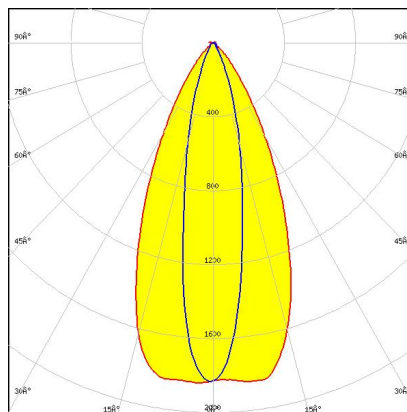
FP11429_LISA2-WWW-PIN



Dimensions: 9.9 mm x 9.9 mm
Height: 7.00 mm

~80° wide beam. 7.0 mm high variant with location pin installation.

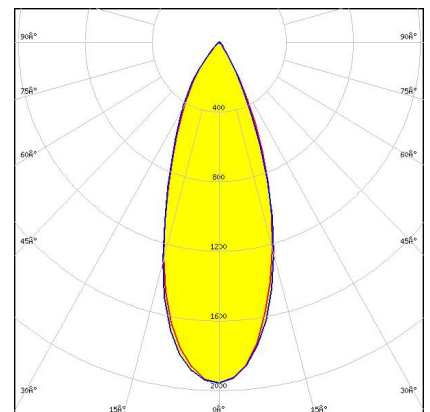
FP14414_LISA2-O-PIN



Dimensions: 10.0 mm x 10.0 mm
Height: 6.81 mm

~45° x 20° oval beam. 7.13 mm high variant with location pin installation.

FP11076_LISA2-W-CLIP

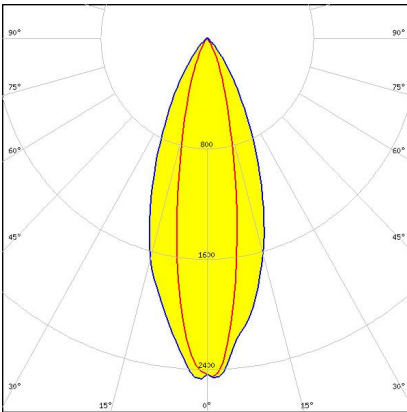


Dimensions: 9.9 mm x 9.9 mm
Height: 6.80 mm

~35° wide beam optimized for CREE XP-E. 6.8 mm high variant with clip installation.

PRODUCTS:

FP11852_LISA2-O-90-PIN



Dimensions: 9.9 mm x 9.9 mm

Height: 6.60 mm

~20° x 50° oval beam optimized for 3535 size LED packages. Variant with beam direction rotated 90°. 6.6 mm high variant with location pin 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:

As part of our continuous research and improvement processes, and to ensure the best possible quality and availability of our products, LEDiL reserves the right to change material grades without notice.

PRODUCT DATA USER AGREEMENT AND DISCLAIMER:

The measured data in the provided downloadable LEDiL Product Datasheets and Mechanical 2D-Drawings is rounded and provided as reference for planning. LEDiL Oy's optical specifications have been verified by conducting performance testing of the products in accordance with the company's quality system. The reported data are averaged results of multiple measurements with typical variation. LEDiL Oy reserves the right to without prior notification make changes and improvements to its products.

LEDiL Oy assumes neither warranty, nor guarantee nor any other liability of any kind for the contents and correctness of the provided data. The provided data has been generated with highest diligence but the provided data may in reality not represent the complete possible variation range of all intrinsic parameters. Therefore, in certain cases a deviation from the provided data could occur.

LEDiL Oy reserves the right to undertake technical changes of its products without further notification which could lead to changes in the provided data. LEDiL Oy assumes no liability of any kind for the possible deviation from any provided data or any other damage resulting from the usage of the provided data.

The user agrees to this disclaimer and user agreement with the download or usage of the provided files.

LEDiL Oy

Joensuunkatu 7
FI-24100 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

[www.ledil.com/
where_to_buy](http://www.ledil.com/where_to_buy)

Shipping locations

Poznan, Poland
Hong Kong, China

Distribution Partners

[www.ledil.com/
where_to_buy](http://www.ledil.com/where_to_buy)