LISA

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

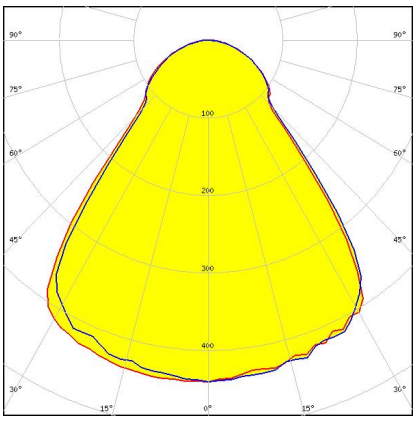
LISA series of lenses, measuring less than 10 mm in diameter and less than 7 mm tall, achieves up to 90 % light transmission efficiency through superior design and materials. Each lens is mounted in a molded polycarbonate (PC) housing and attaches to the PCB by means of locating pins or optional mounting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

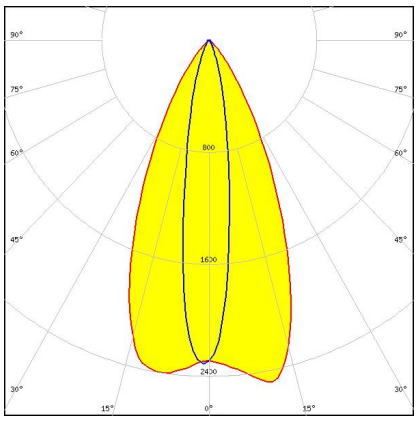
C12469_LISA2-R-PIN



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.

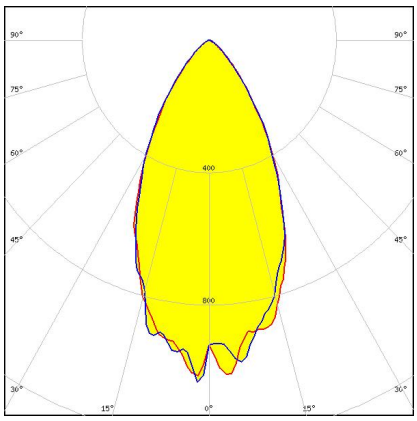
FP11121_LISA2-O-CLIP



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.

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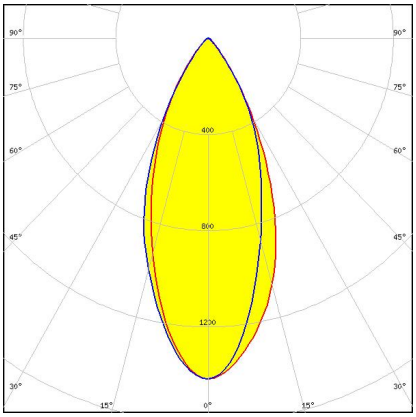
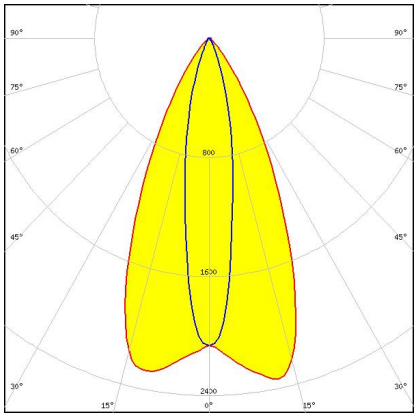
PRODUCTS:

FP11002_LISA2-W-PIN



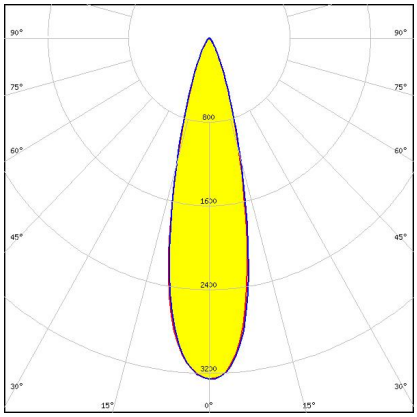
Dimensions: 9.9 mm x 9.9 mm
Height: 6.60 mm
~35° wide beam optimized for 3535 size LED packages. 6.6 mm high variant with location pin installation.

FP11125_LISA2-O-PIN



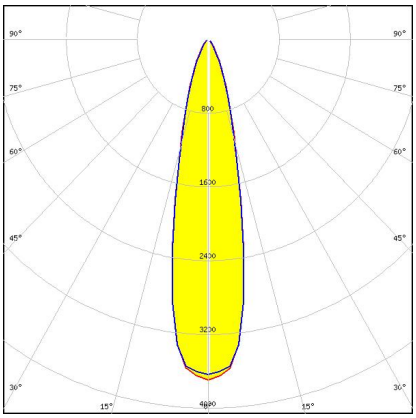
Dimensions: 9.9 mm x 9.9 mm
Height: 6.80 mm
~45° x 20° oval beam. 6.8 mm high variant with location pin installation.

FP13030_LISA2-M-CLIP



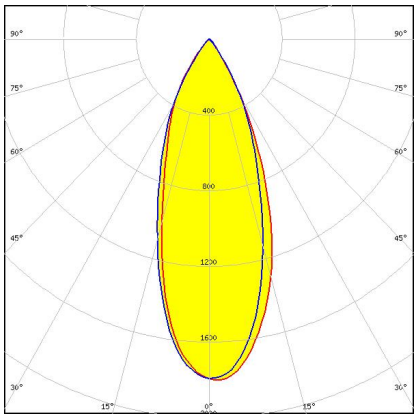
Dimensions: 9.9 mm x 9.9 mm
Height: 6.80 mm
~20° medium beam optimized for CREE XP-E. 6.8 mm high variant with clip installation.

FP11055_LISA2-RS-PIN



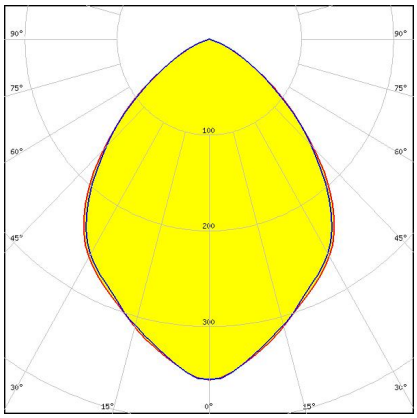
Dimensions: 9.9 mm x 9.9 mm
Height: 6.80 mm
~19° spot beam. 6.8 mm high variant with location pin installation.

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.

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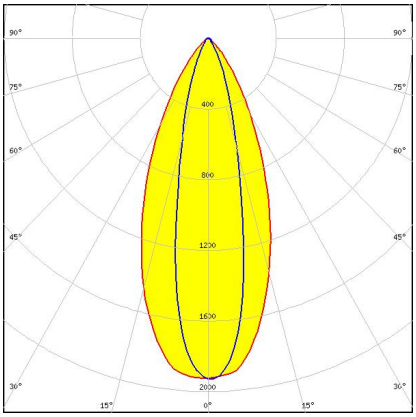
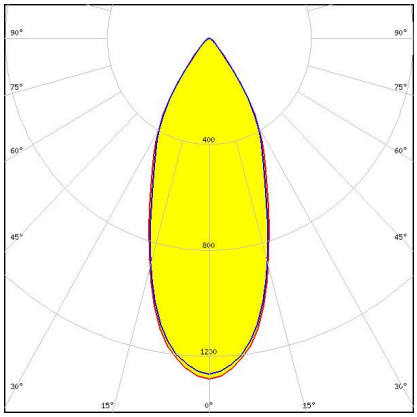
PRODUCTS:

FP14415_LISA2-O-CLIP



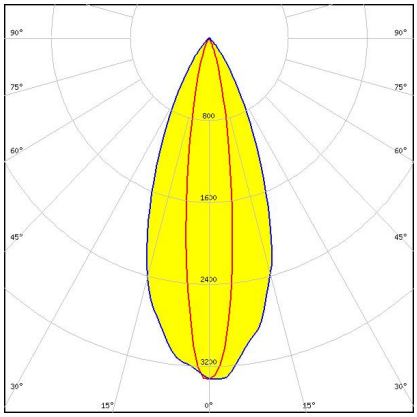
Dimensions: 10.0 mm x 10.0 mm
Height: 6.81 mm
~45° x 20° oval beam optimized for CREE XP-E. 7.13 mm high variant with clip installation.

FP11077_LISA2-WW-CLIP



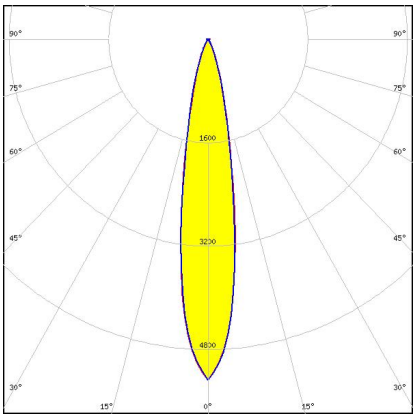
Dimensions: 9.9 mm x 9.9 mm
Height: 6.80 mm
~45° wide beam optimized for CREE XP-E. 6.8 mm high variant with clip installation.

FP11856_LISA2-O-90-CLIP



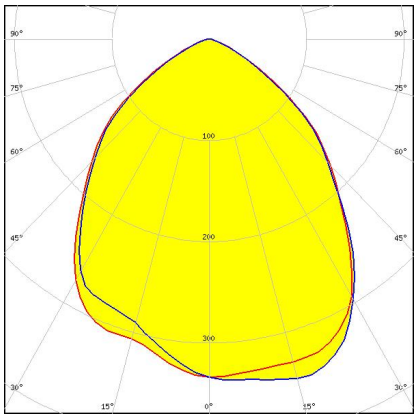
Dimensions: 9.9 mm x 9.9 mm
Height: 6.80 mm
~20° x 50° turned oval beam optimized for CREE XP-E. 6.8 mm high variant with clip installation.

FP11084_LISA2-RS-CLIP



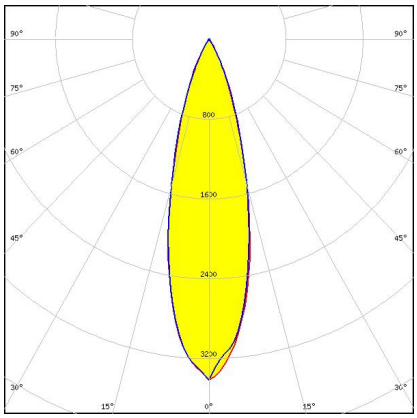
Dimensions: 9.9 mm x 9.9 mm
Height: 6.60 mm
~19° spot beam optimized for 3535 size LED packages. 6.6 mm high variant with clip installation.

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.

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.

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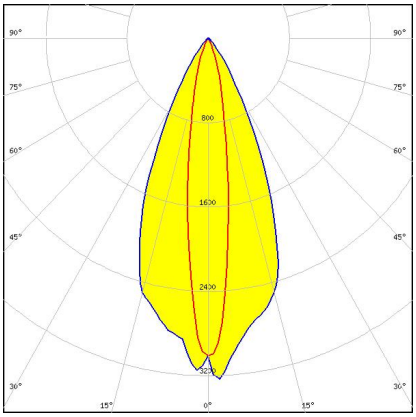
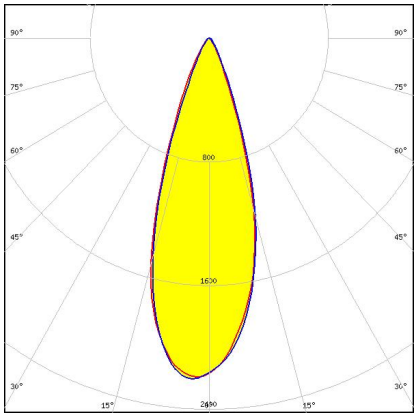
PRODUCTS:

FP11120_LISA2-O-CLIP



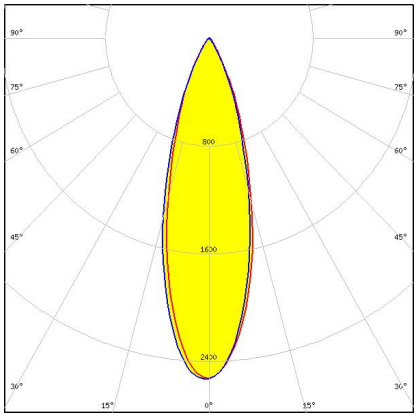
Dimensions: 9.9 mm x 9.9 mm
Height: 6.60 mm
~45° x 20° oval beam optimized for 3535 size LED packages. 6.6 mm high variant with clip installation.

FP13025_LISA2-W-PIN



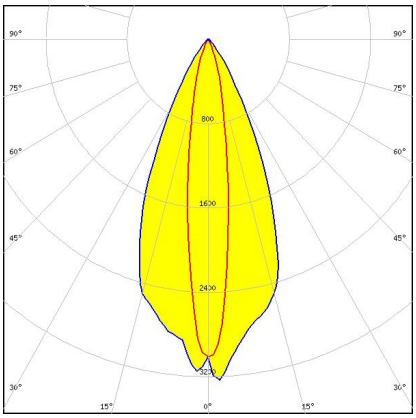
Dimensions: 10.0 mm x 10.0 mm
Height: 6.80 mm
~35° wide beam. 6.8 mm high variant with location pin installation.

FP11001_LISA2-M-PIN



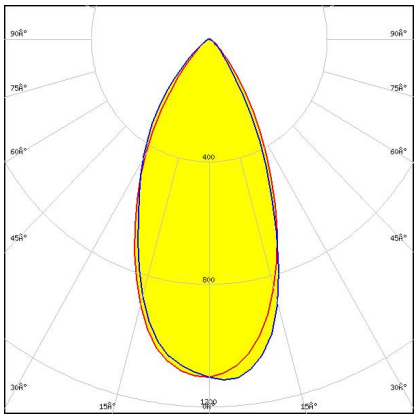
Dimensions: 9.9 mm x 9.9 mm
Height: 6.65 mm
~20° medium beam optimized for 3535 size LED packages. 6.6 mm high variant with location pin installation.

FP11124_LISA2-O-PIN



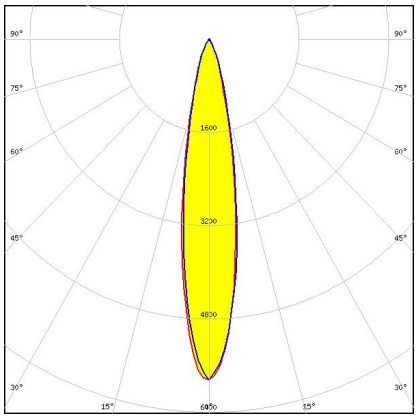
Dimensions: 9.9 mm x 9.9 mm
Height: 6.65 mm
~45° x 20° oval beam optimized for 3535 size LED packages. mm high variant with location pin installation.

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.

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.

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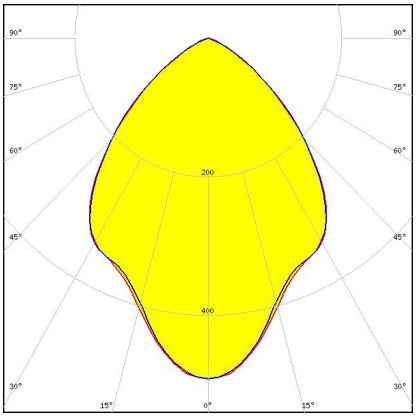
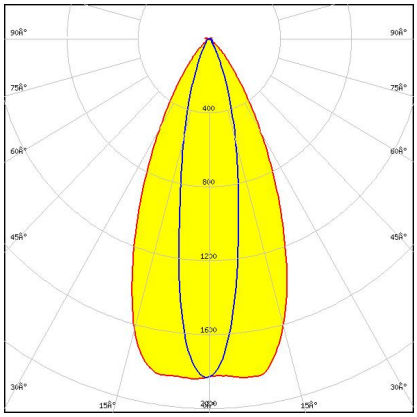
PRODUCTS:

FP11429_LISA2-WWW-PIN



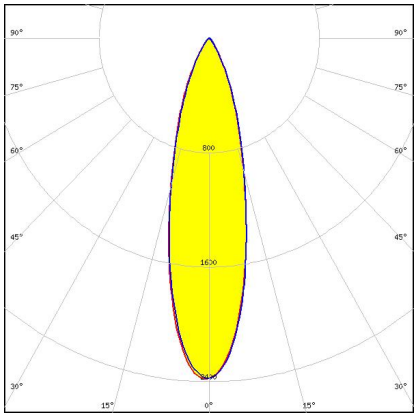
Dimensions: 9.9 mm x 9.9 mm
Height: 7.00 mm
~80° wide beam. 7.0 mm high variant with location pin installation.

FP14414_LISA2-O-PIN



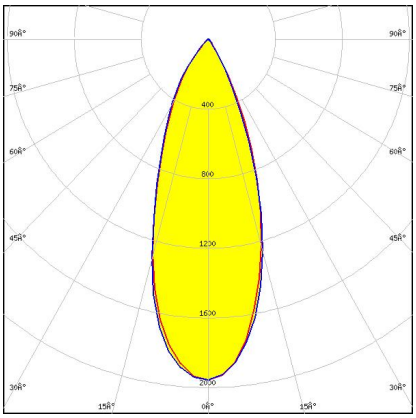
Dimensions: 10.0 mm x 10.0 mm
Height: 6.81 mm
~45° x 20° oval beam. 7.13 mm high variant with location pin installation.

FP11072_LISA2-M-CLIP



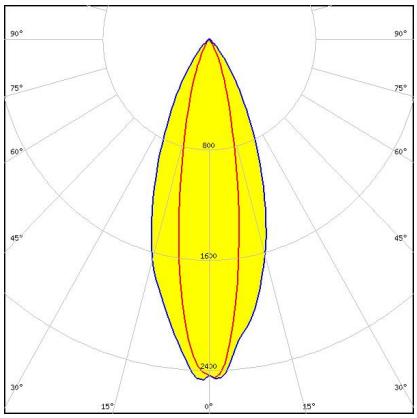
Dimensions: 9.9 mm x 9.9 mm
Height: 6.60 mm
~20° medium beam optimized for LUXEON Rebel. 6.6 mm high variant with clip installation.

FP11076_LISA2-W-CLIP



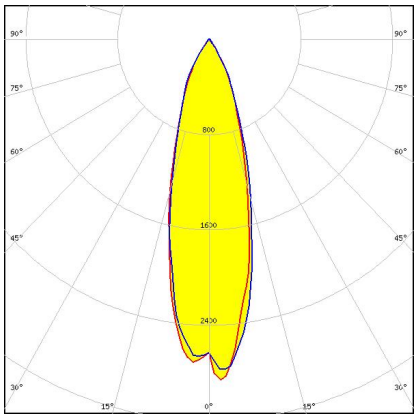
Dimensions: 9.9 mm x 9.9 mm
Height: 6.80 mm
~35° wide beam optimized for CREE XP-E. 6.8 mm high variant with clip installation.

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.

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.

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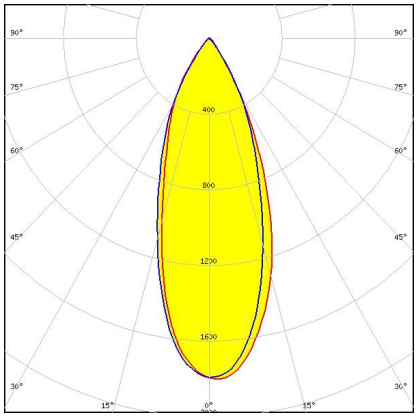
PRODUCTS:

FP11952_LISA2-WWW-CLIP

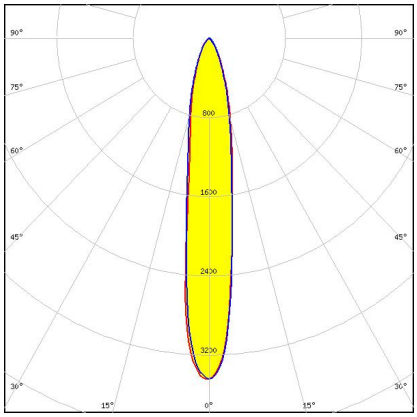
Dimensions: 9.9 mm x 9.9 mm
Height: 6.60 mm
~80° wide beam optimized for LUXEON Rebel. 6.6 mm high variant with clip installation.

FP10993_LISA2-W-PIN



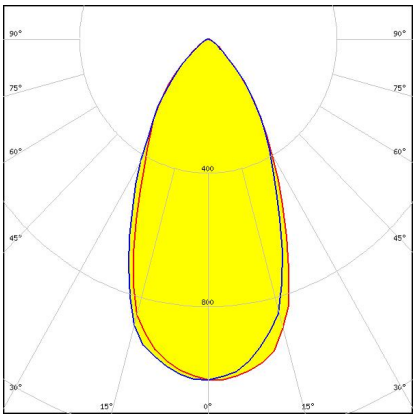
Dimensions: 9.9 mm x 9.9 mm
Height: 6.60 mm
~35° wide beam optimized for LUXEON Rebel. 6.6 mm high variant with location pin installation.

FP11086_LISA2-RS-CLIP



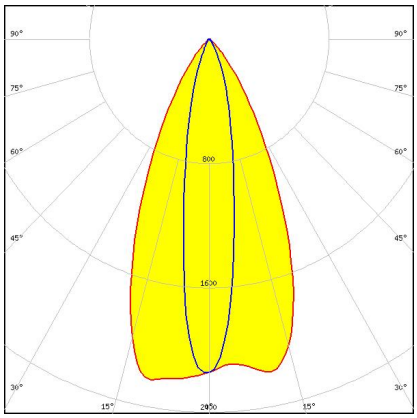
Dimensions: 9.9 mm x 9.9 mm
Height: 6.60 mm
~19° spot beam optimized for LUXEON Rebel. 6.6 mm high variant with clip installation.

FP10997_LISA2-WW-PIN



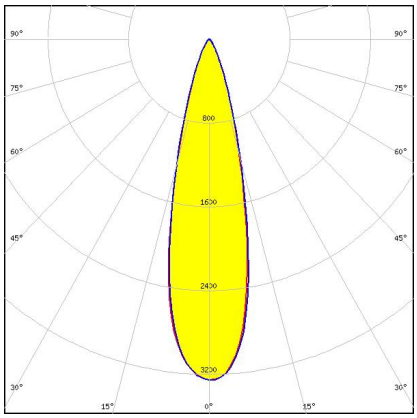
Dimensions: 9.9 mm x 9.9 mm
Height: 7.00 mm
~45° wide beam. 7.0 mm high variant with location pin installation.

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.

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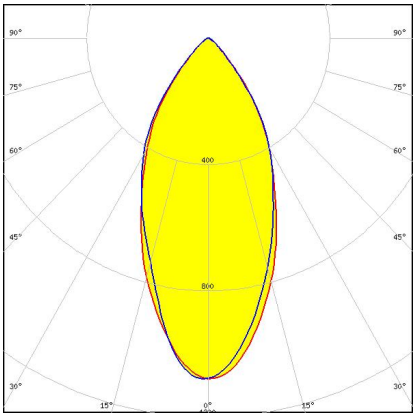
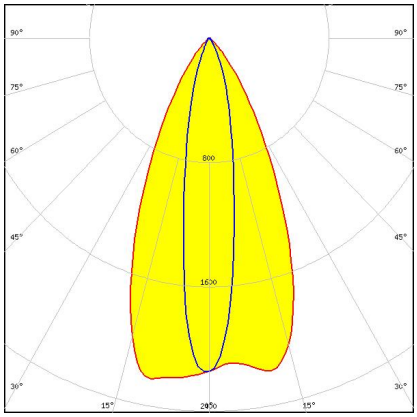
PRODUCTS:

FP11003_LISA2-WW-PIN



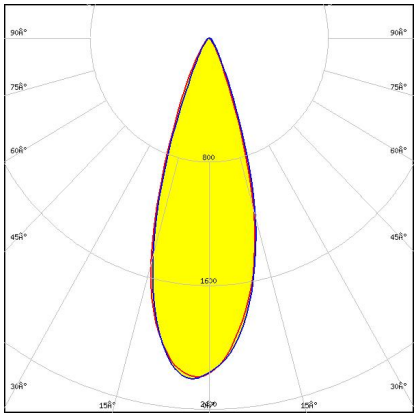
Dimensions: 9.9 mm x 9.9 mm
Height: 6.81 mm
~45° wide beam optimized for 3535 size LED packages. 6.8 mm high variant with location pin installation.

FP11126_LISA2-O-PIN



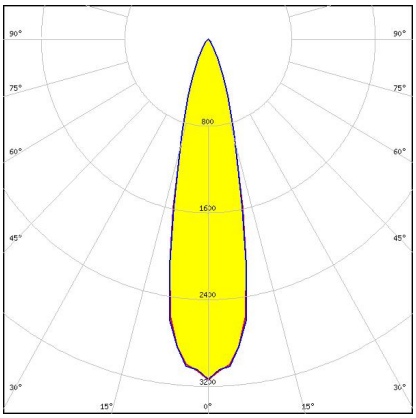
Dimensions: 9.9 mm x 9.9 mm
Height: 6.60 mm
~45° x 20° oval beam optimized for LUXEON Rebel. 6.6 mm high variant with location pin installation.

FP13031_LISA2-W-CLIP



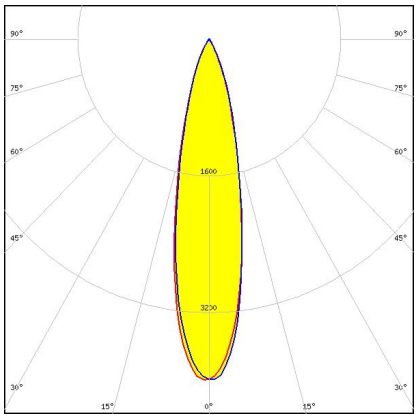
Dimensions: 9.9 mm x 9.9 mm
Height: 6.80 mm
~35° wide beam optimized for CREE XP-E. 6.8 mm high variant with clip installation.

FP11056_LISA2-RS-PIN



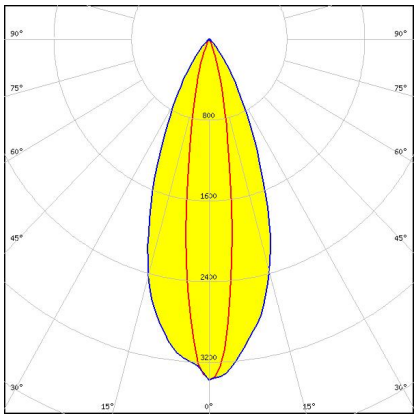
Dimensions: 9.9 mm x 9.9 mm
Height: 6.60 mm
~19° spot beam optimized for LUXEON Rebel. 6.6 mm high variant with location pin installation.

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.

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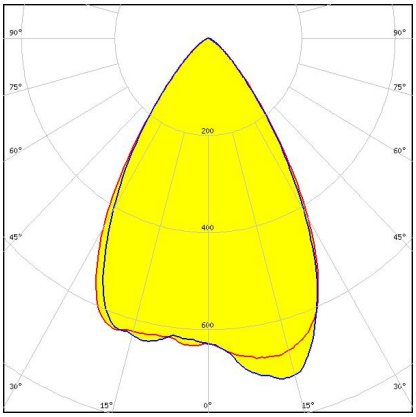
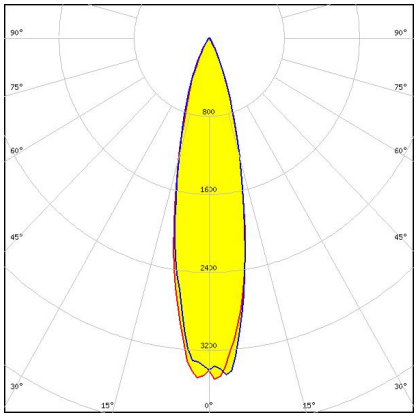
PRODUCTS:

FP14766_LISA2-WWX-PIN



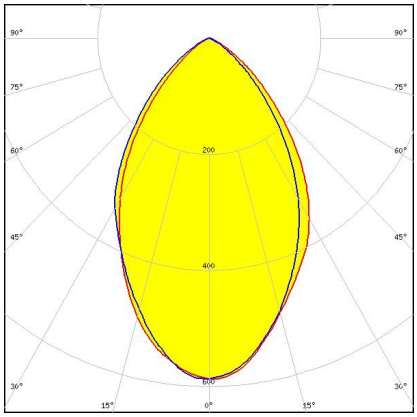
Dimensions: 9.9 mm x 9.9 mm
Height: 7.00 mm
~60° wide beam optimized for 3535 size LED packages. 7.0 mm high variant with location pin installation.

FP11081_LISA2-M-CLIP



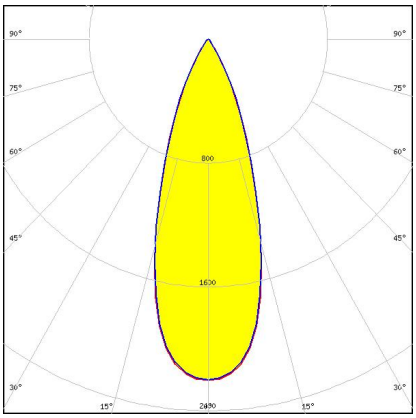
Dimensions: 9.9 mm x 9.9 mm
Height: 6.60 mm
~20° medium beam optimized for 3535 size LED packages.. 6.6 mm high variant with clip installation.

FP11951_LISA2-WWW-PIN



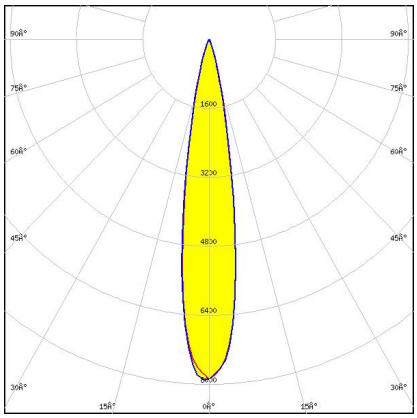
Dimensions: 9.9 mm x 9.9 mm
Height: 6.60 mm
~80° wide beam optimized for LUXEON Rebel. 6.6 mm high variant with location pin installation.

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.

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.

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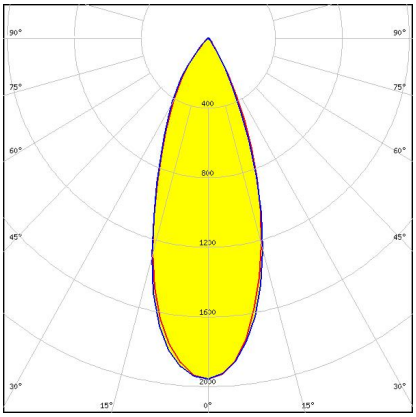
PRODUCTS:

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.

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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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