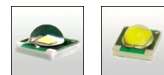


## LISA2-PIN-XP MINIATURE LENS FOR CREE XP SERIES OF LEDs



- Lens material optical grade PMMA with high UV and temperature resistance (105°C/220°F). Lens holder molded of high quality black PC (120°C/248°F)
- High optical efficiency, up to 90%. Expect Lisa2-O around 75%.
- Integrated holder with small position pins, see drawing below for more details. Fastening of holder to PCB with appropriate adhesive, e.c. epoxy or polyurethane based. NOTE: DO NOT USE SUPERGLUE.
- Please check fastening details from this link:  
([http://www.ledil.com/datasheets/DataSheet\\_GLUES.pdf](http://www.ledil.com/datasheets/DataSheet_GLUES.pdf))
- Very small and compact dimensions: Diameter 9.9 mm, height 6.8 mm

## LENS TYPES

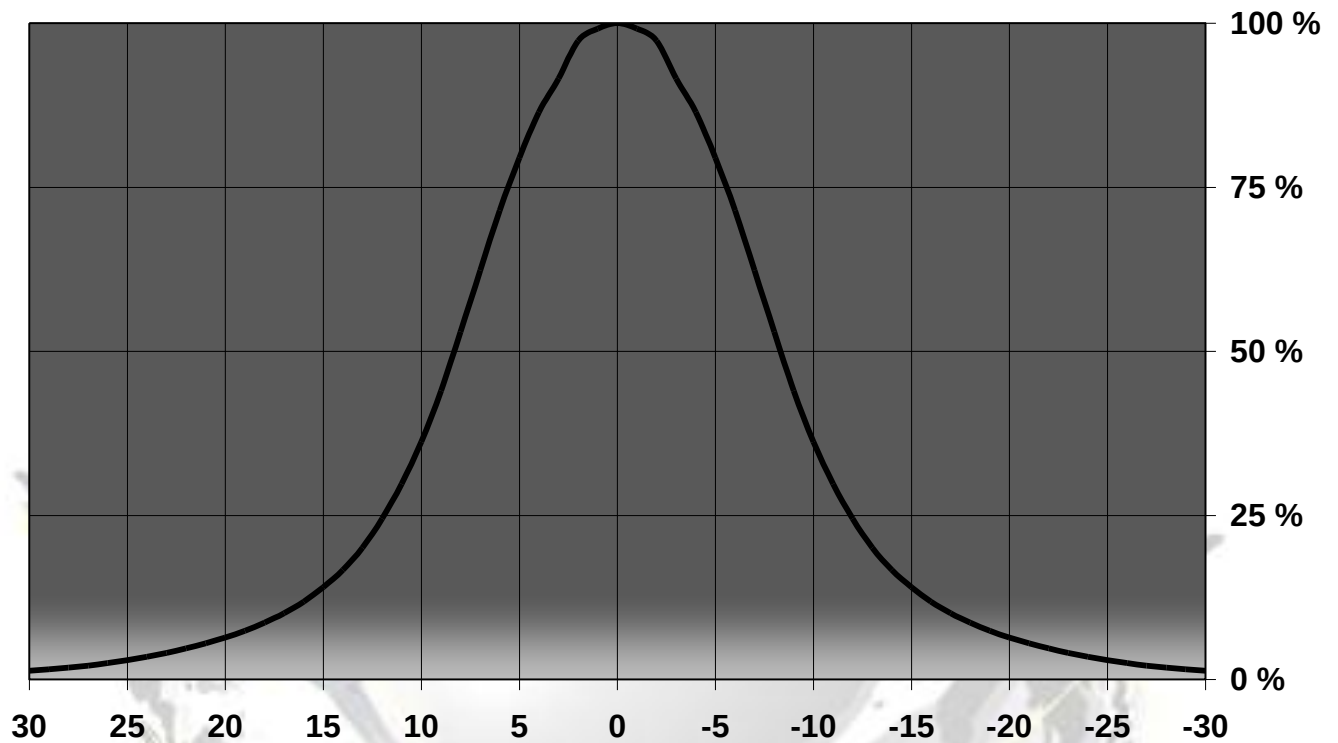
| NAME                | ORDERING CODE             | FWHM Angle |
|---------------------|---------------------------|------------|
| Lisa2-Pin Real Spot | FA11055_Lisa2-RS-Pin-XP   | ±8°        |
| Lisa2-Pin Medium    | FA10995_Lisa2-M-Pin-XP    | ±12°       |
| Lisa2-Pin Oval      | FA11125_Lisa2-O-Pin-XP    | ±9° x ±24° |
| Lisa2-Pin Oval-90   | FA11851_Lisa2-O-90-Pin-XP | ±9° x ±24° |
| Lisa2-Pin Wide      | FA10996_Lisa2-W-Pin-XP    | ±20°       |
| Lisa2-Pin WW        | FA10997_Lisa2-WW-Pin-XP   | ~±30°      |
| Lisa-2-Pin-WWW      | FA11429_Lisa2-WWW-Pin-XP  | ~±40°      |

|                     |                            |             |
|---------------------|----------------------------|-------------|
| Lisa2-Pin Real Spot | FA11055_Lisa2-RS-Pin-XP-G  | ±13°        |
| Lisa2-Pin Medium    | FA10995_Lisa2-M-Pin-XP-G   | ±17°        |
| Lisa2-Pin Oval      | FA11125_Lisa2-O-Pin-XP-G   | ±12° x ±23° |
| Lisa2-Pin Oval-90   | FA11851_Lisa2-O-90-Pin-XP  | ±12° x ±23° |
| Lisa2-Pin Wide      | FA10996_Lisa2-W-Pin-XP-G   | ±24°        |
| Lisa2-Pin WW        | FA10997_Lisa2-WW-Pin-XP-G  | ~±30°       |
| Lisa-2-Pin-WWW      | FA11429_Lisa2-WWW-Pin-XP-G | ~±40°       |

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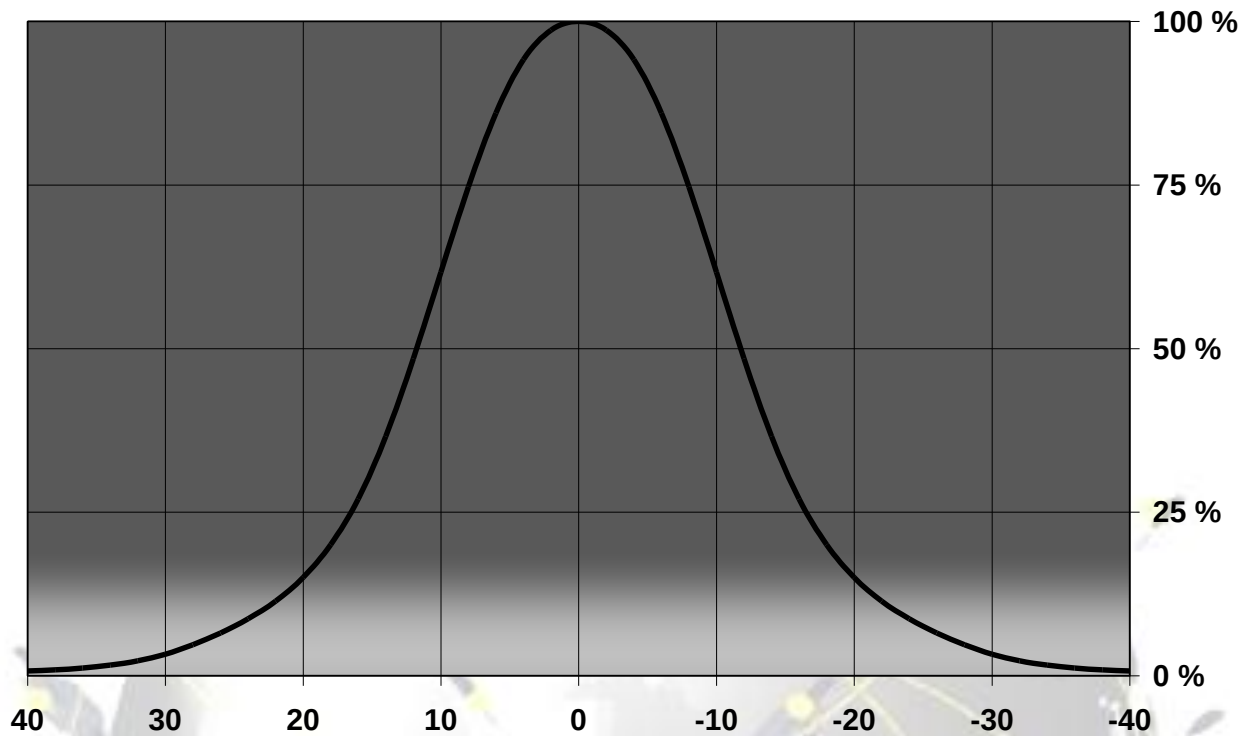
## MEASUREMENT DATA FOR CREE XP-E

Relative Intensity of FA11055\_Lisa2-RS-Pin-XP



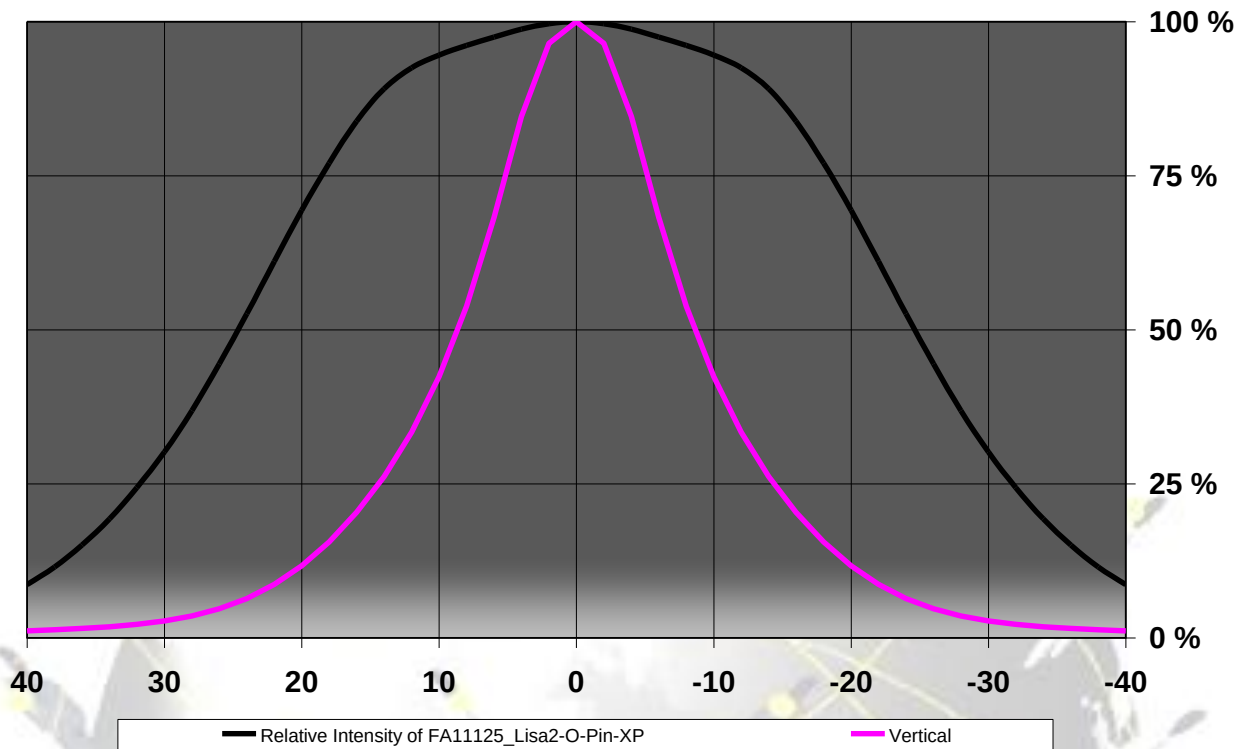
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Relative Intensity of FA10995\_Lisa2-M-Pin-XP



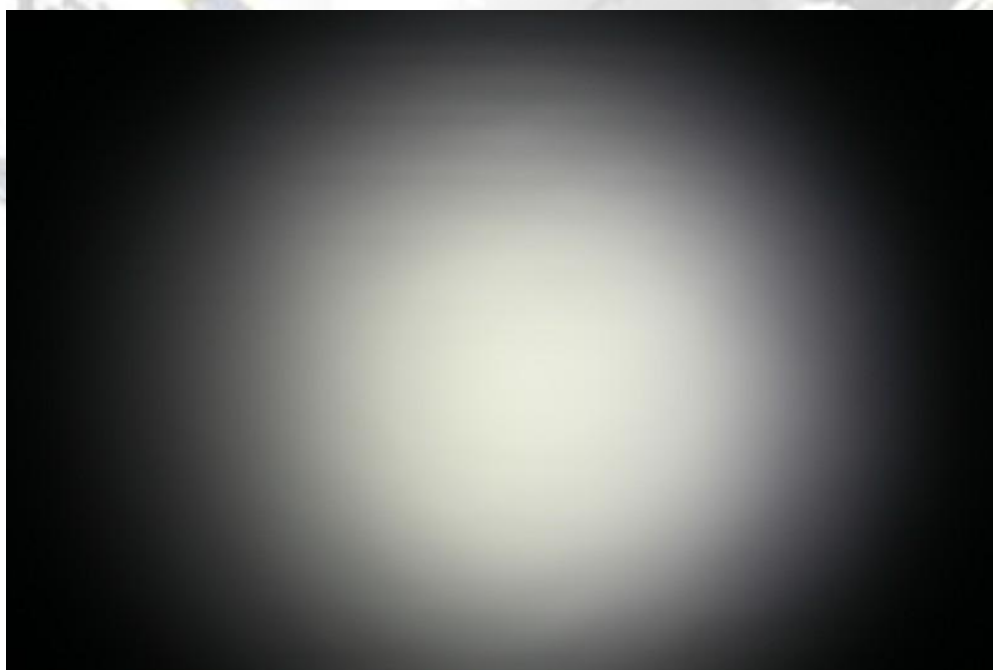
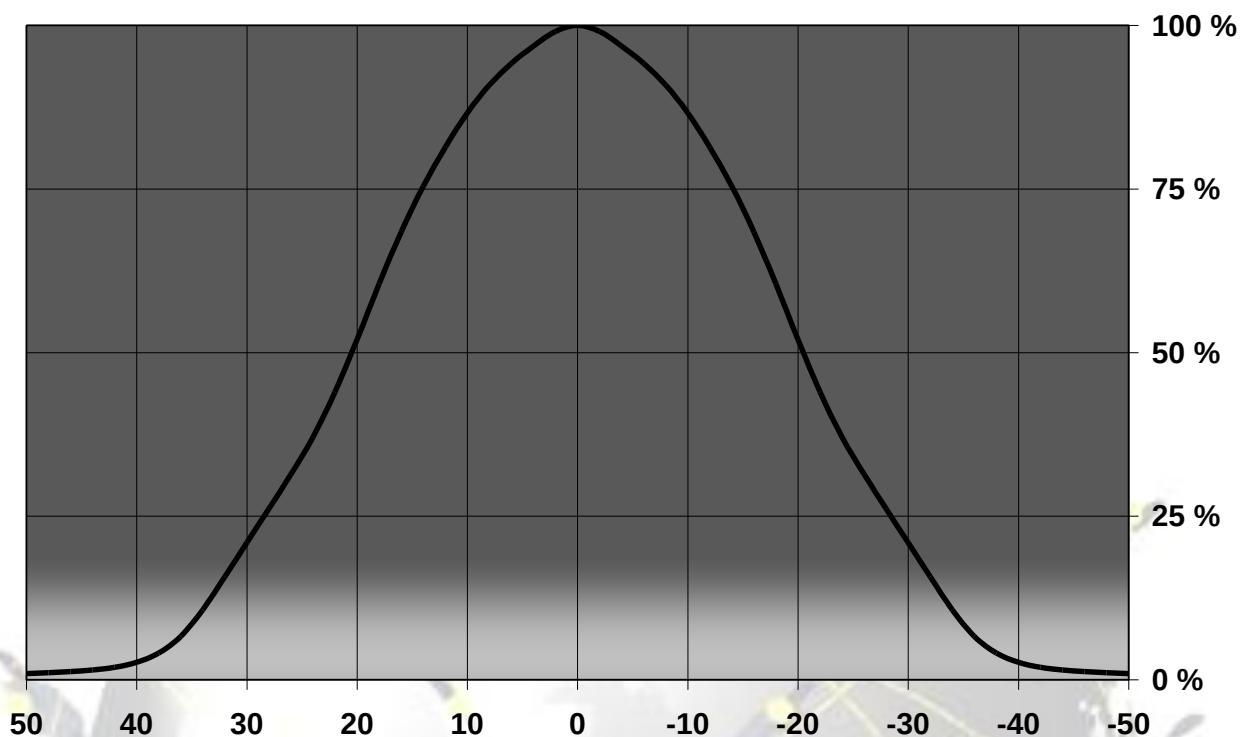
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Relative intensity of FA11125\_Lisa2-O-Pin-XP



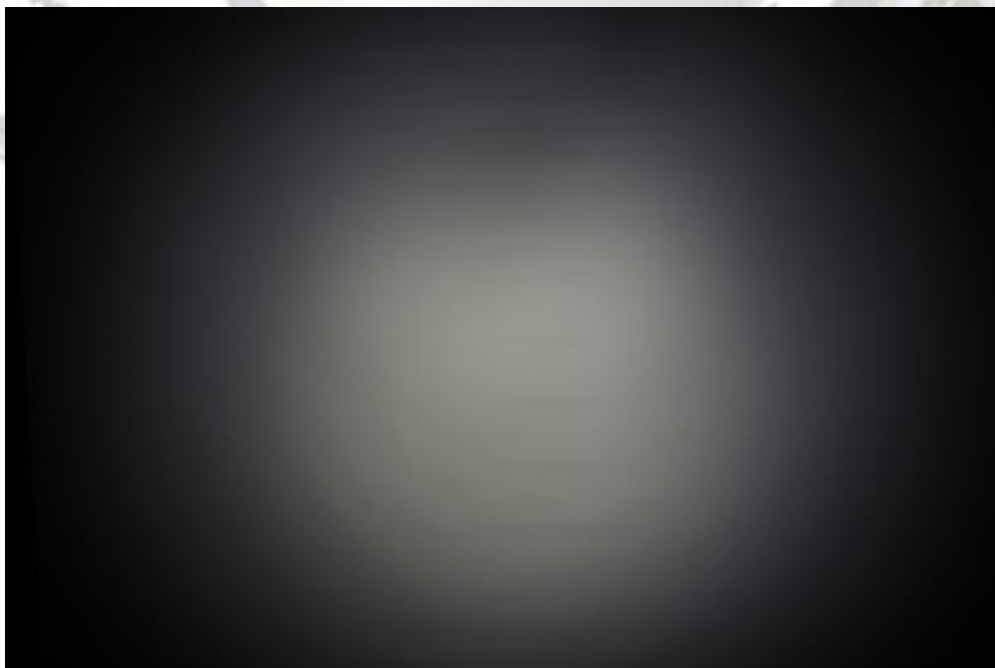
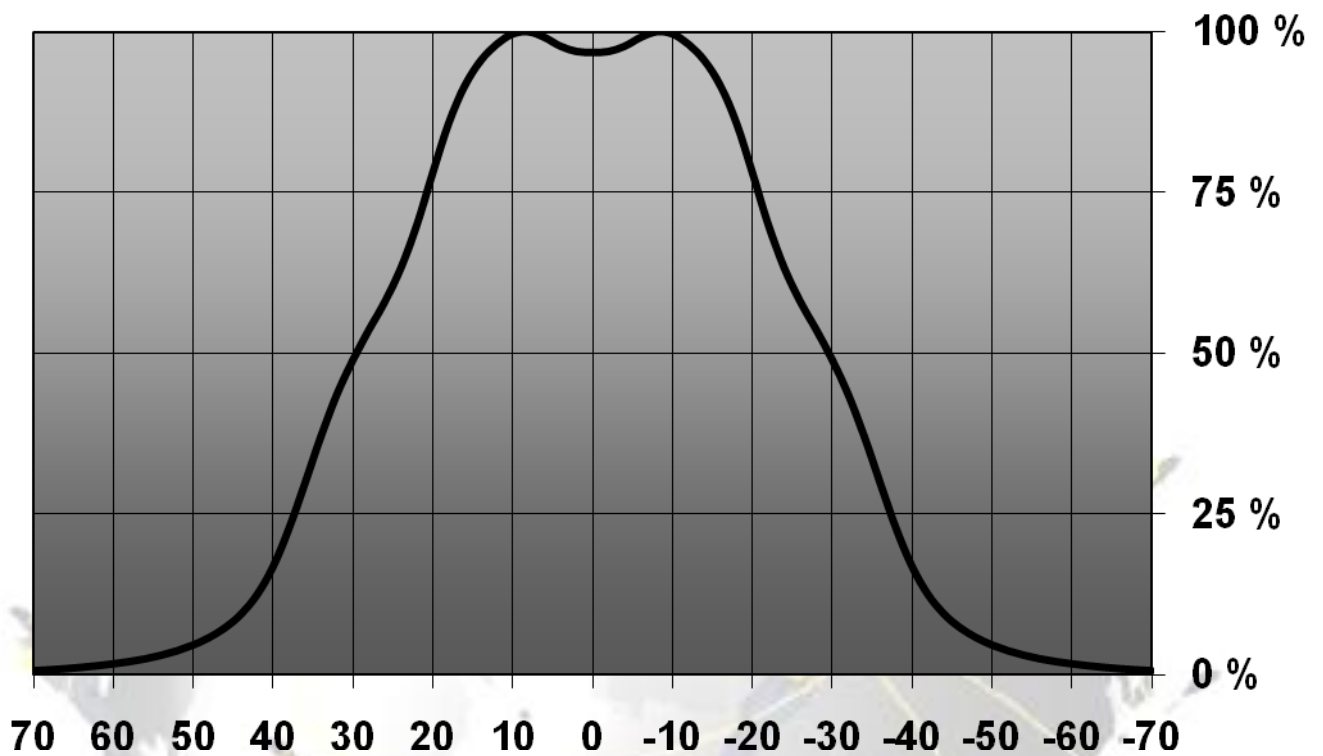
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Relative Intensity of FA10996\_Lisa2-W-Pin-XP



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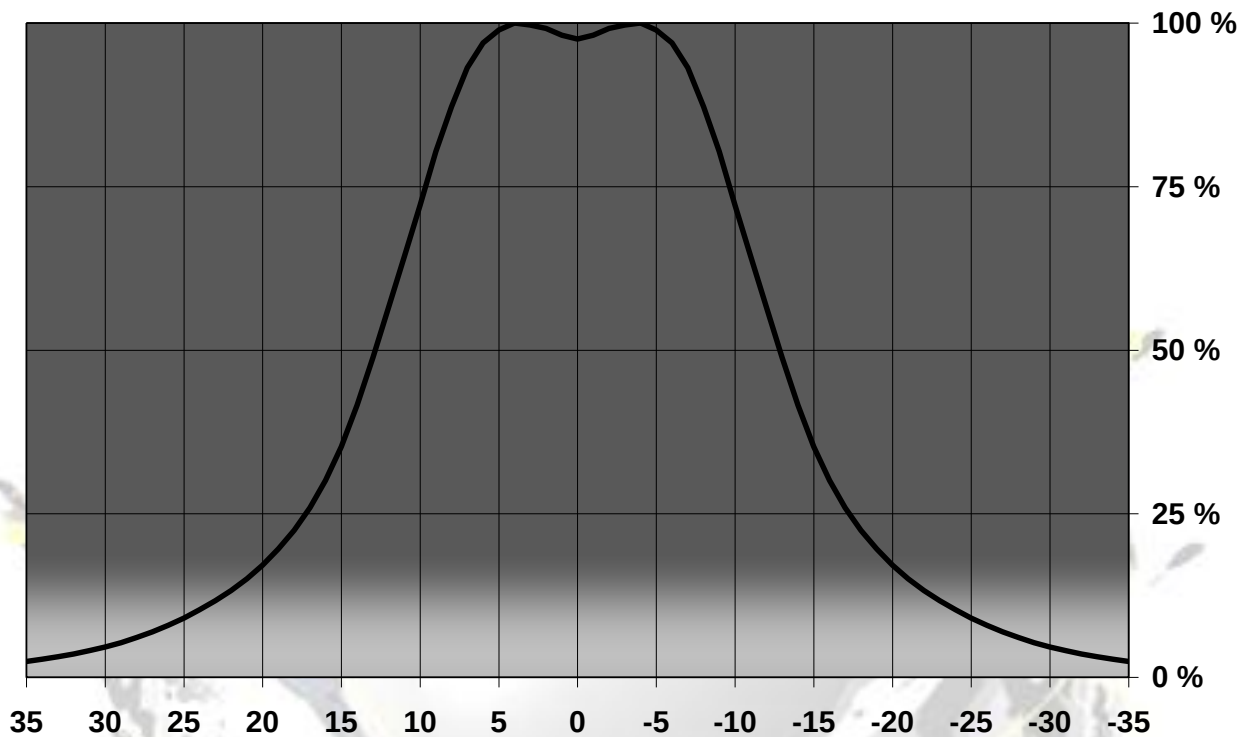
## Relative intensity of FA10997\_Lisa2-WW-Pin-XP



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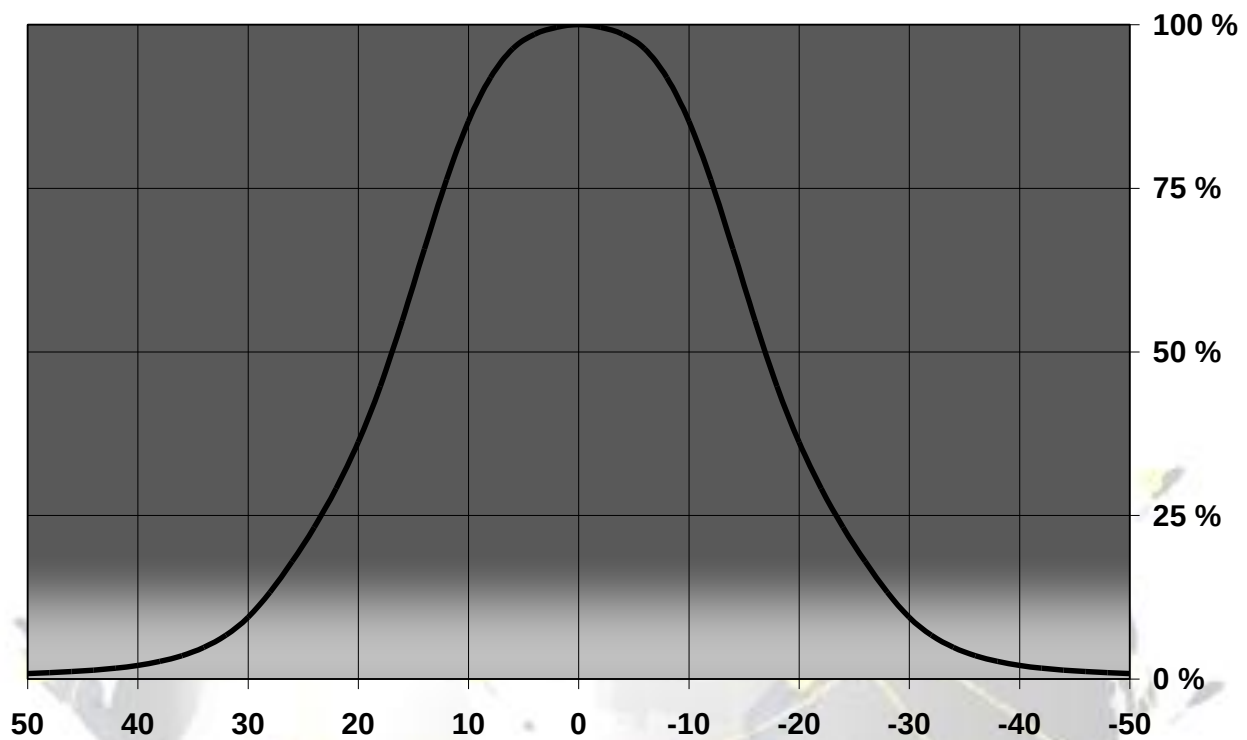
## MEASUREMENT DATA FOR CREE XP-G

Relative Intensity of FA11055\_Lisa2-RS-Pin-XP-G



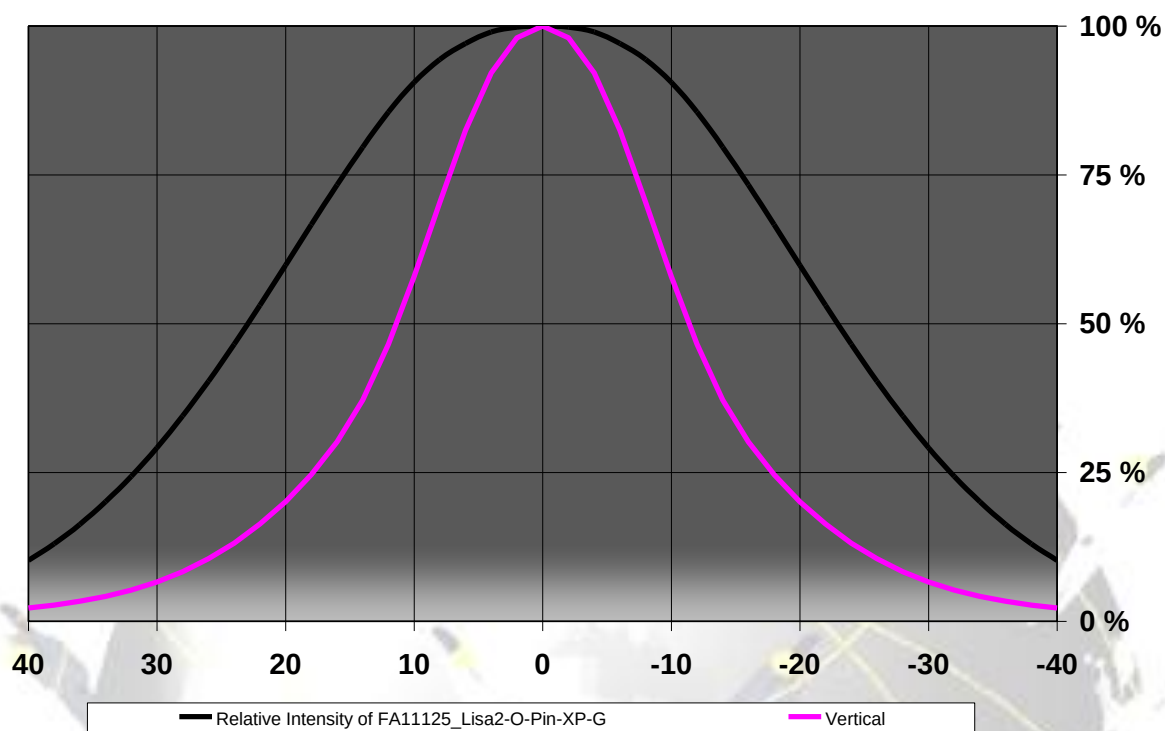
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Relative Intensity of FA10995\_Lisa2-M-Pin-XP-G

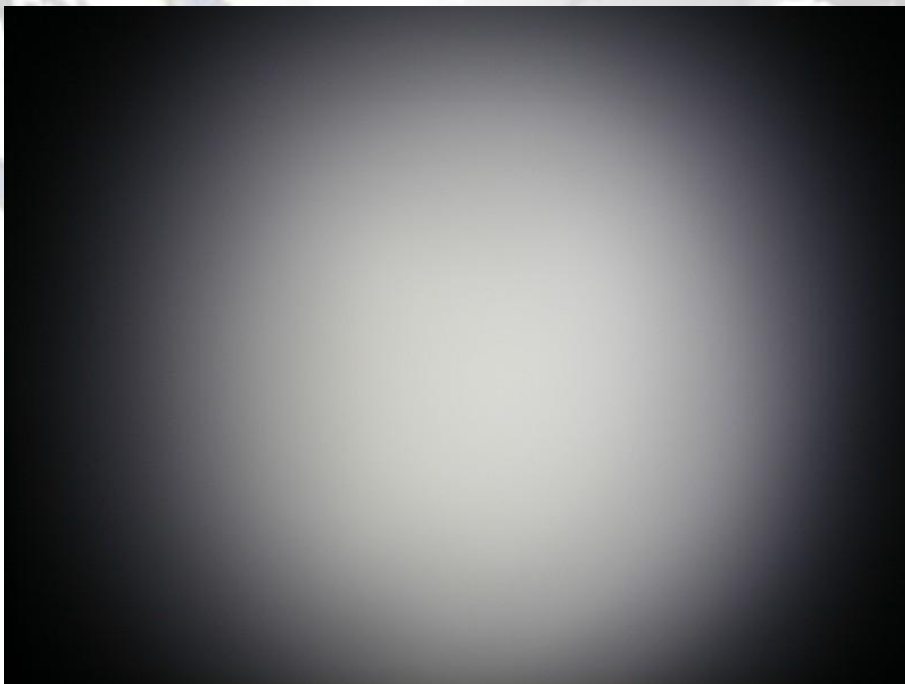
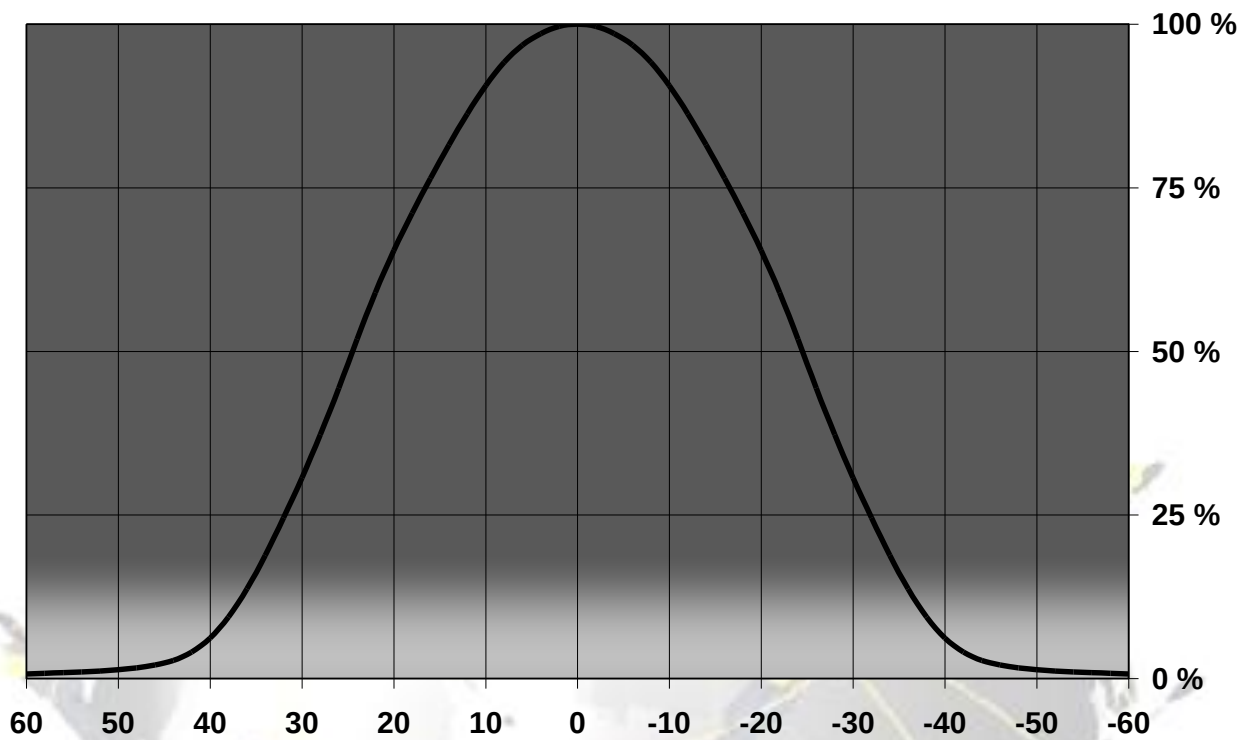


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Relative intensity of FA11125\_Lisa2-O-Pin-XP-G



Relative Intensity of FA10996\_Lisa2-W-Pin-XP-G



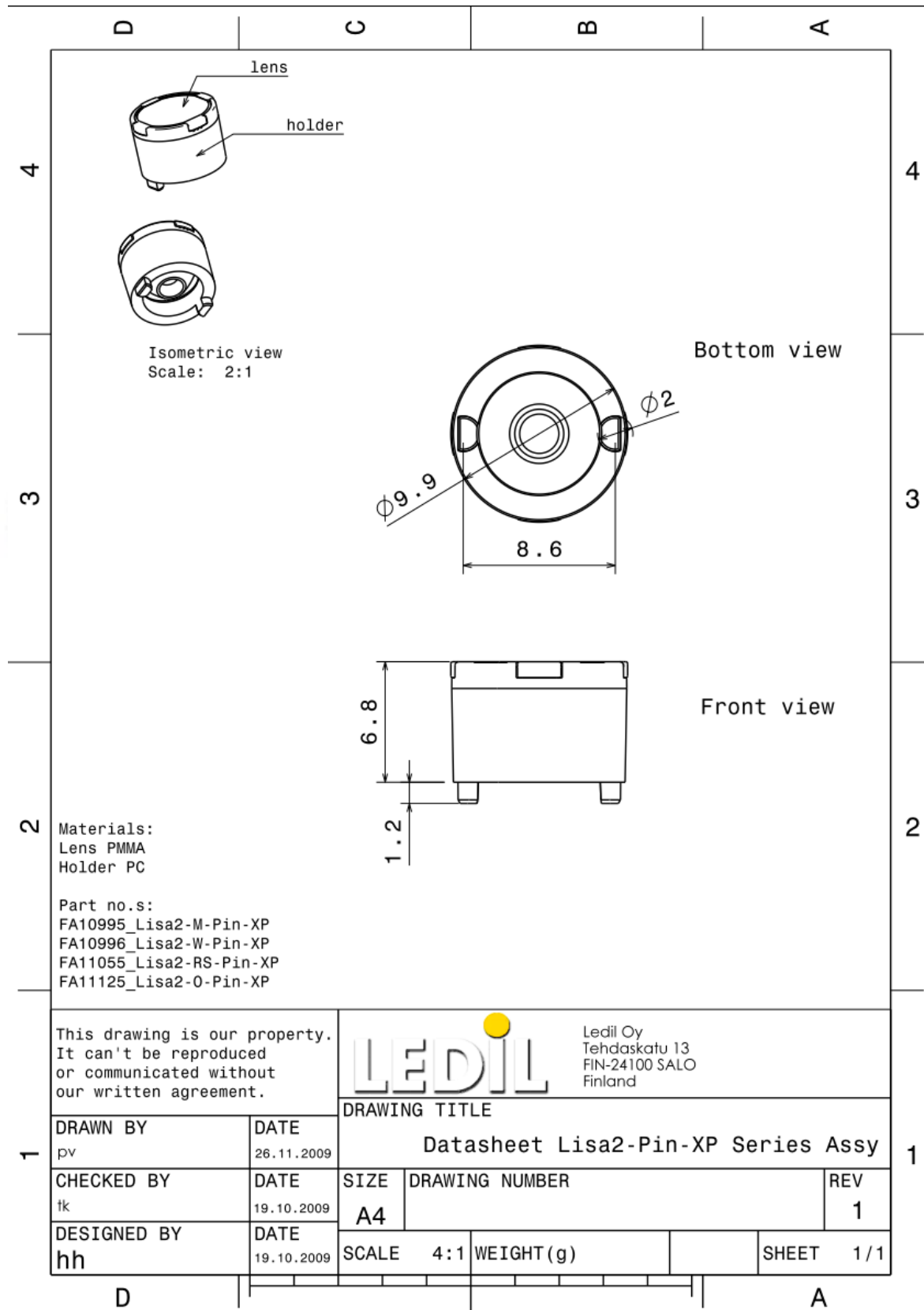
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2010-12-30

## DRAWINGS



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