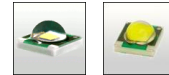


LISA2-PIN-XP MINIATURE LENS FOR CREE XP SERIES OF LEDs



- 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)
- Very small and compact dimensions: Diameter 9.9 mm, height 6.8 mm

LENS TYPES

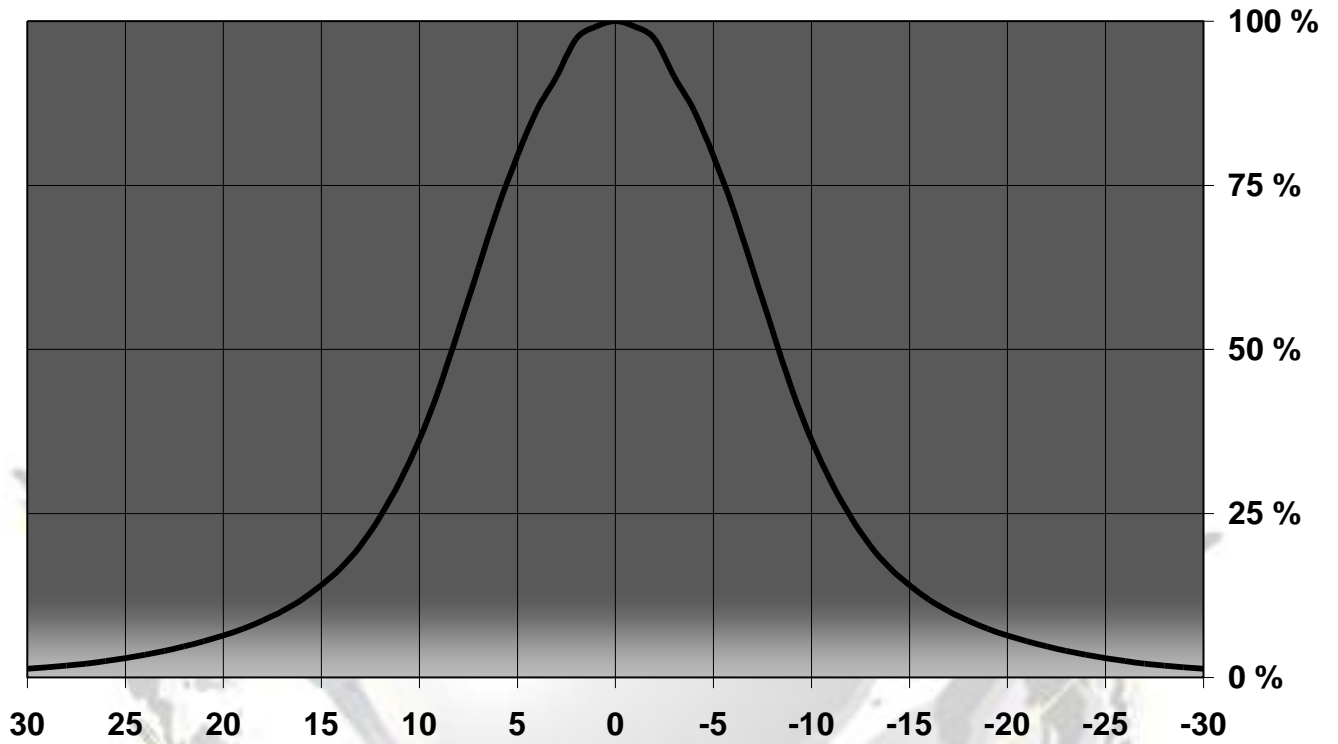
NAME	ORDERING CODE	FWHM Angle
Lisa2-Pin Real Spot	FA11055_Lisa2-RS-Pin-XP	±8°
Lisa2-Pin Medium	FA10995_Lisa2-M-Pin-XP	±12°
Lisa2-Pin Oval	FA11125_Lisa2-O-Pin-XP	±9° x ±24°
Lisa2-Pin Oval-90	FA11851_Lisa2-O-90-Pin-XP	±9° x ±24°
Lisa2-Pin Wide	FA10996_Lisa2-W-Pin-XP	±20°
Lisa2-Pin WW	FA10997_Lisa2-WW-Pin-XP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

© Ledil Oy - PRELIMINARY - Subject to change without prior notice

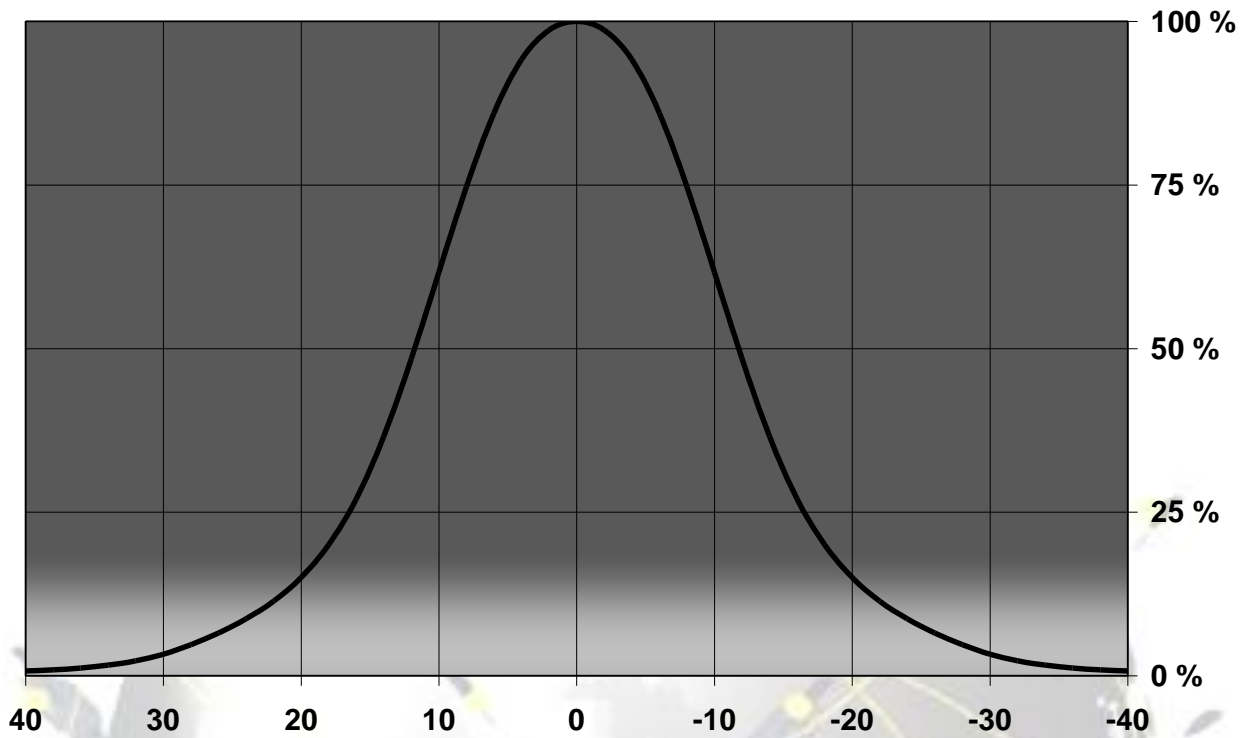
MEASUREMENT DATA FOR CREE XP-E

Relative Intensity of FA11055_Lisa2-RS-Pin-XP



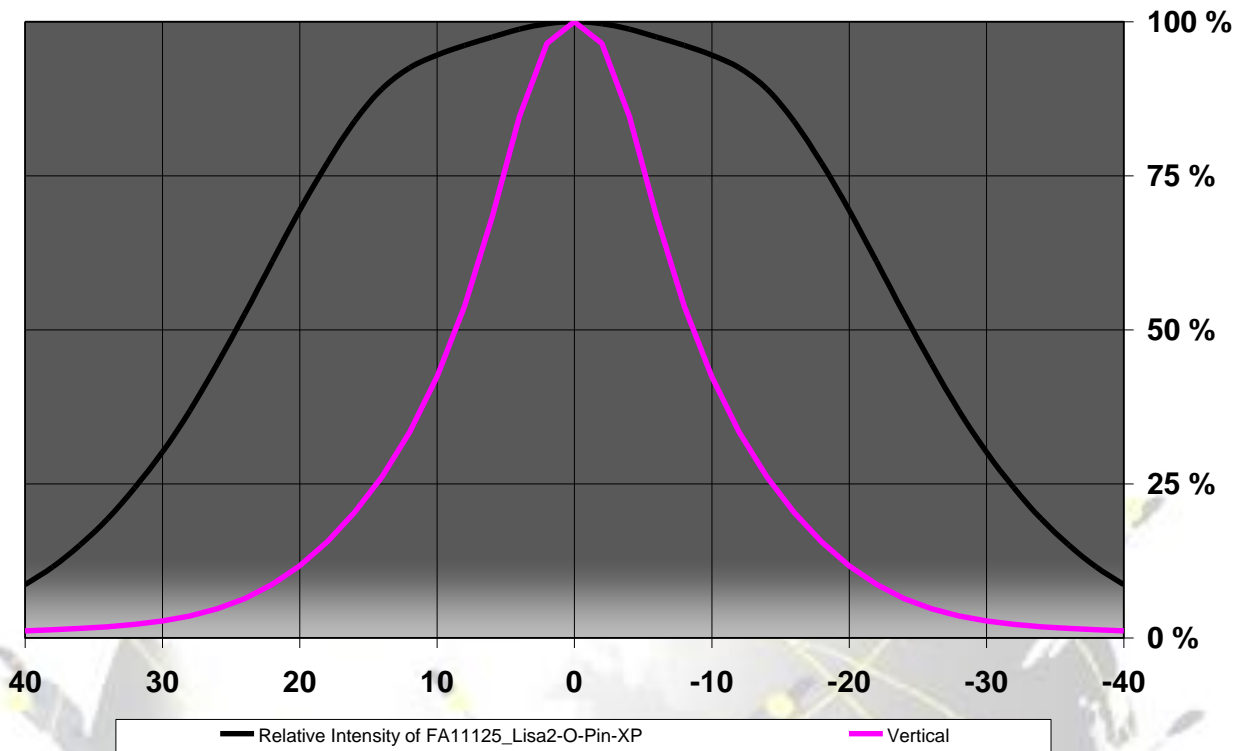
© Ledil Oy - PRELIMINARY - Subject to change without prior notice

Relative Intensity of FA10995_Lisa2-M-Pin-XP



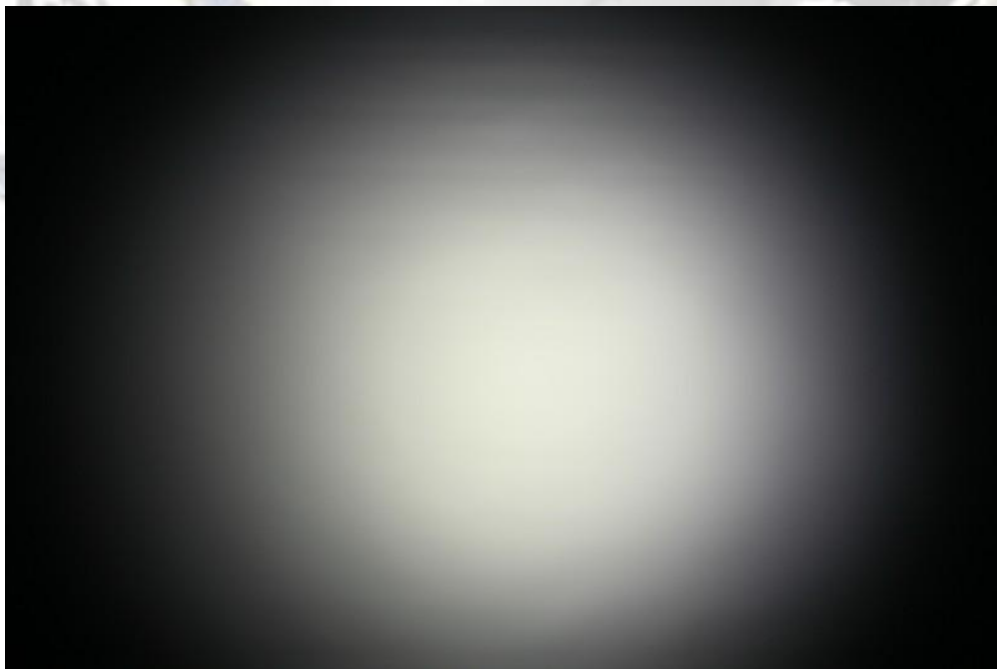
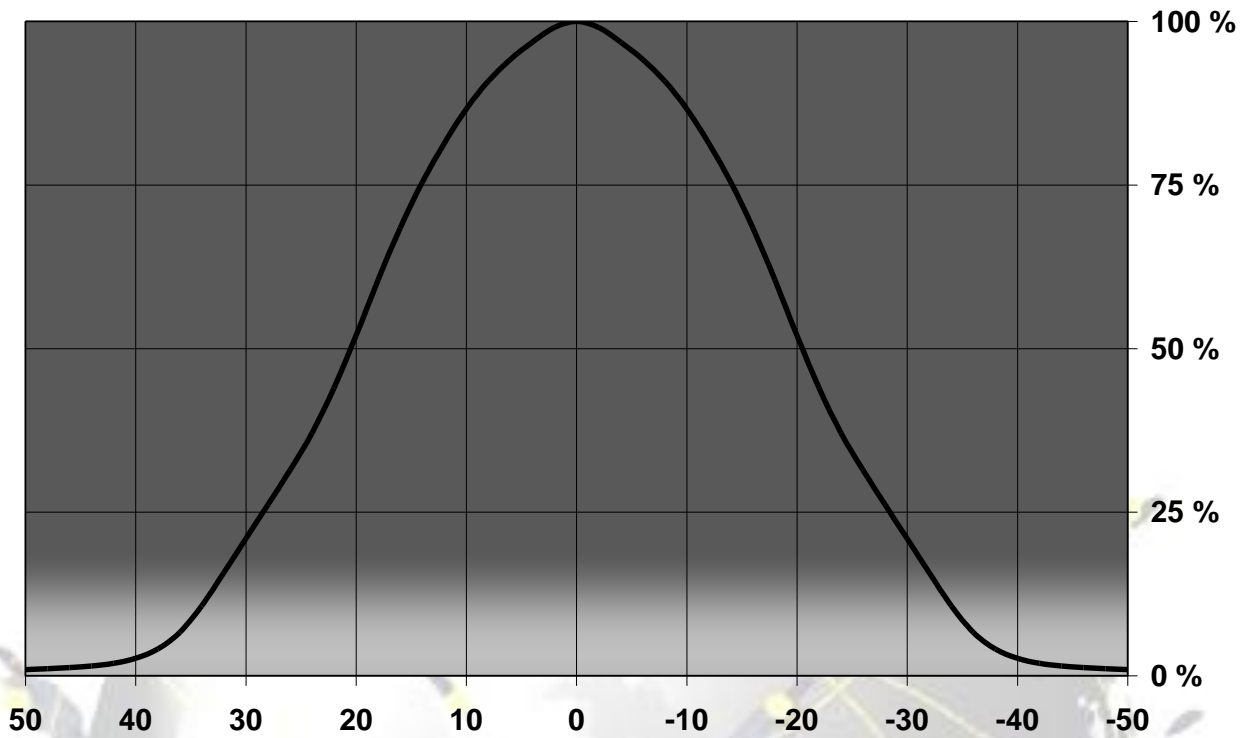
© Ledil Oy – PRELIMINARY - Subject to change without prior notice

Relative intensity of FA11125_Lisa2-O-Pin-XP



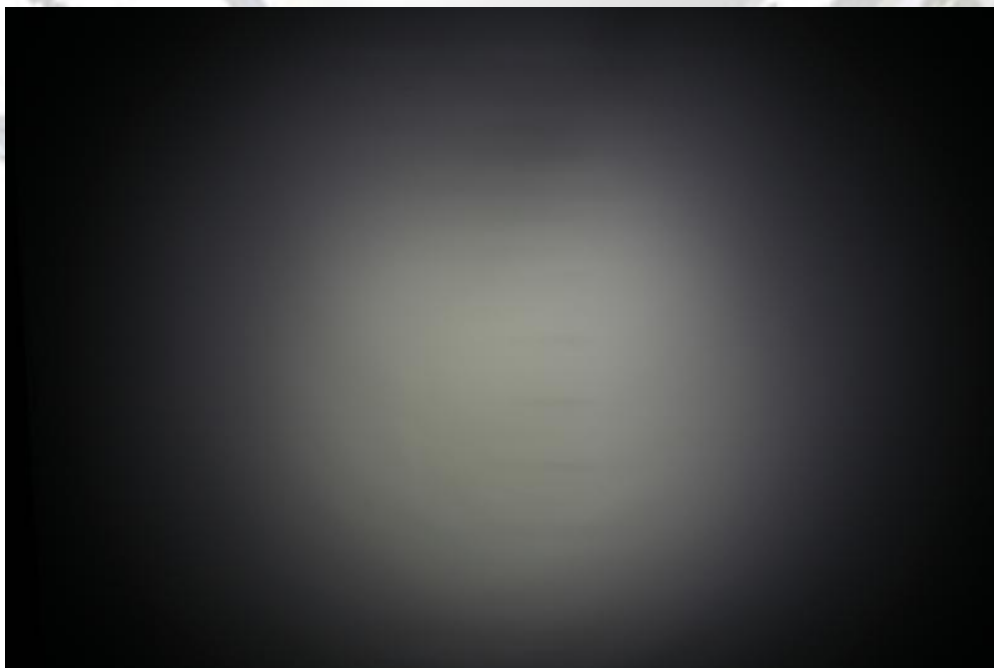
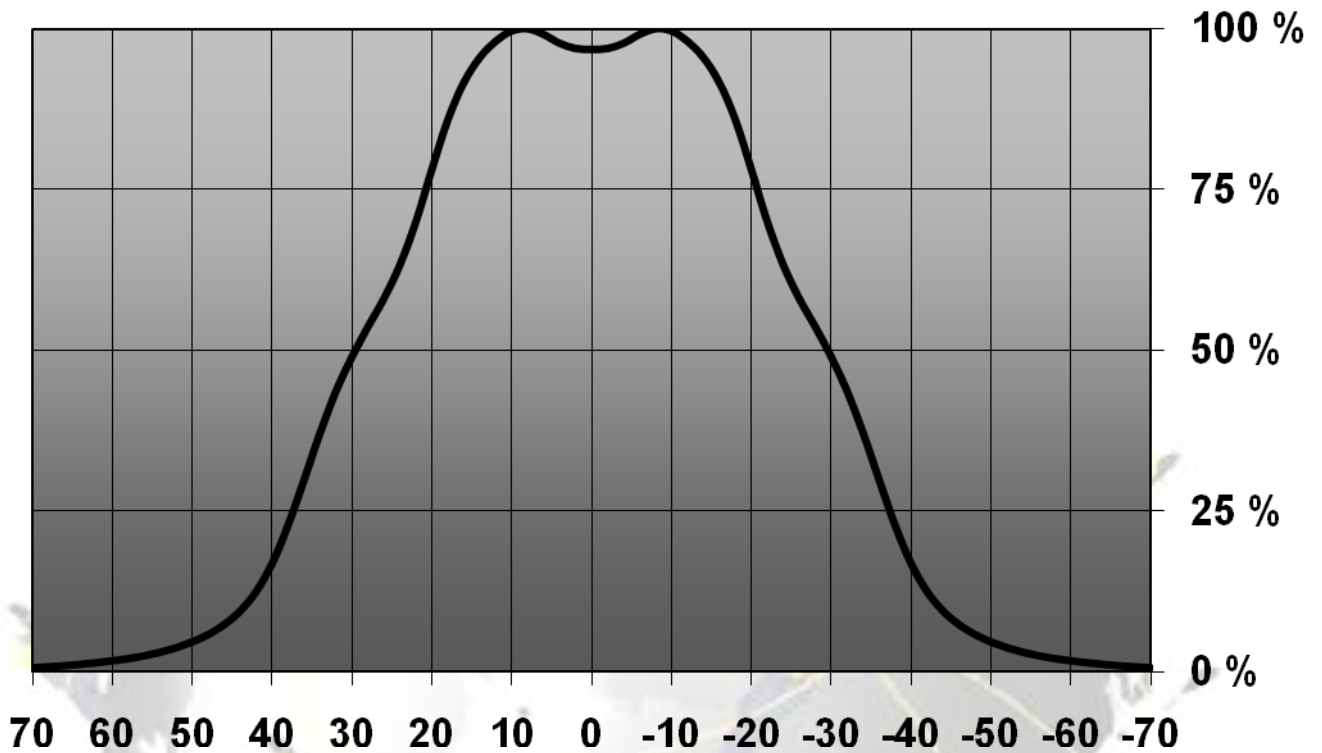
© Ledil Oy - PRELIMINARY - Subject to change without prior notice

Relative Intensity of FA10996_Lisa2-W-Pin-XP



© Ledil Oy - PRELIMINARY - Subject to change without prior notice

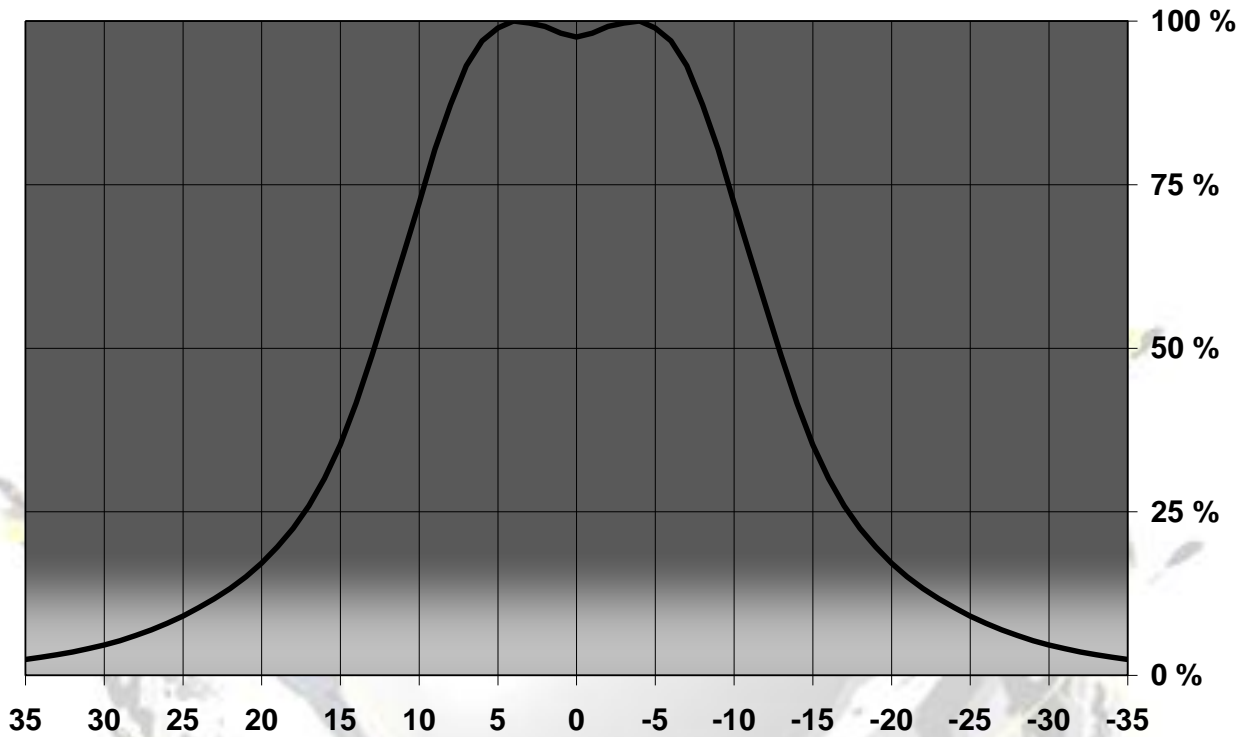
Relative intensity of FA10997_Lisa2-WW-Pin-XP



© Ledil Oy - PRELIMINARY - Subject to change without prior notice

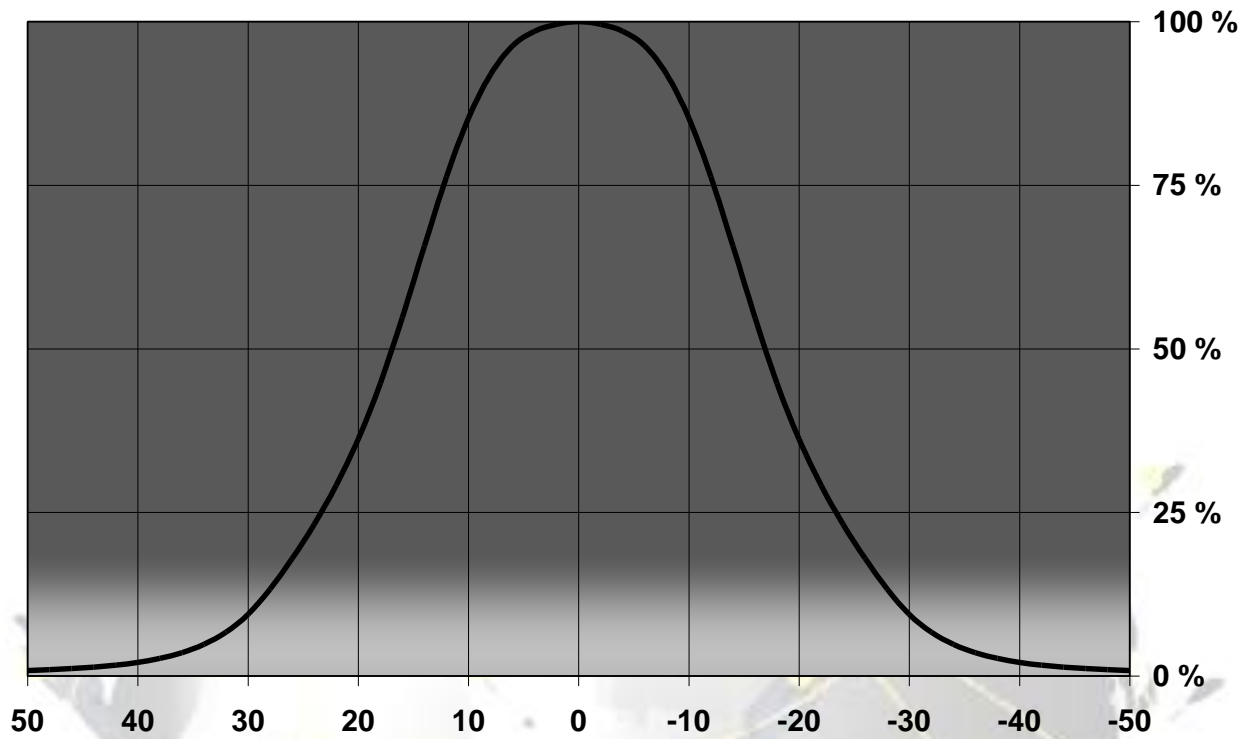
MEASUREMENT DATA FOR CREE XP-G

Relative Intensity of FA11055_Lisa2-RS-Pin-XP-G



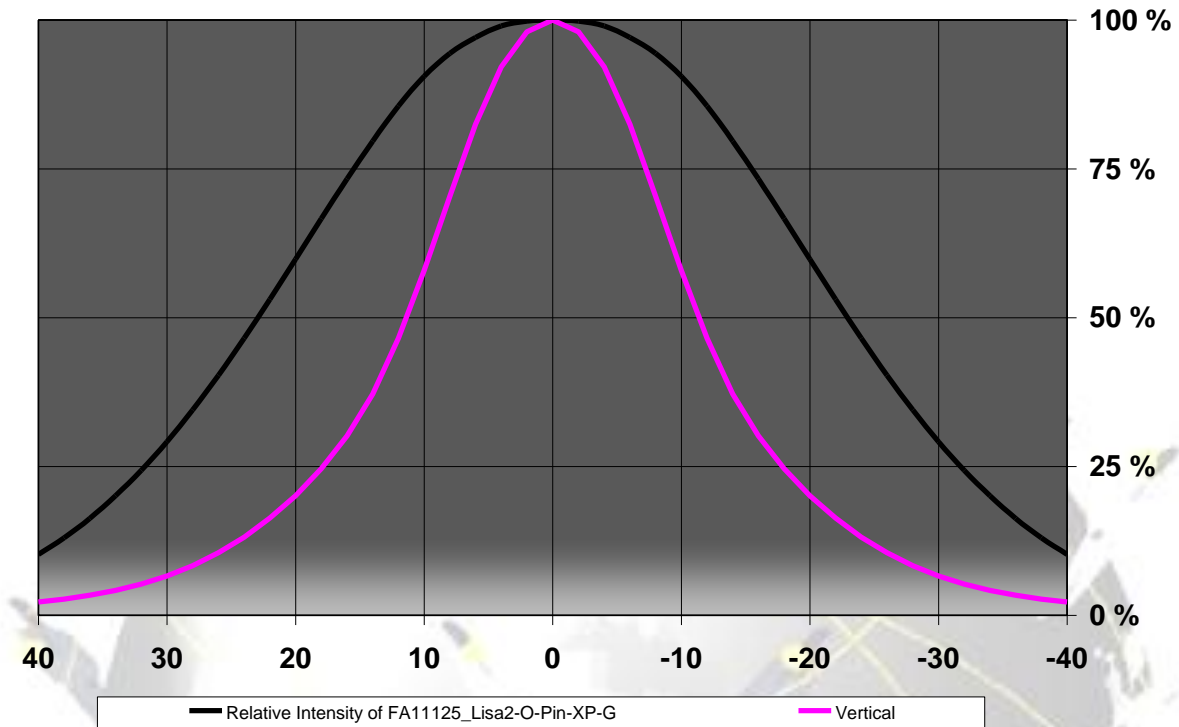
© Ledil Oy - PRELIMINARY - Subject to change without prior notice

Relative Intensity of FA10995_Lisa2-M-Pin-XP-G

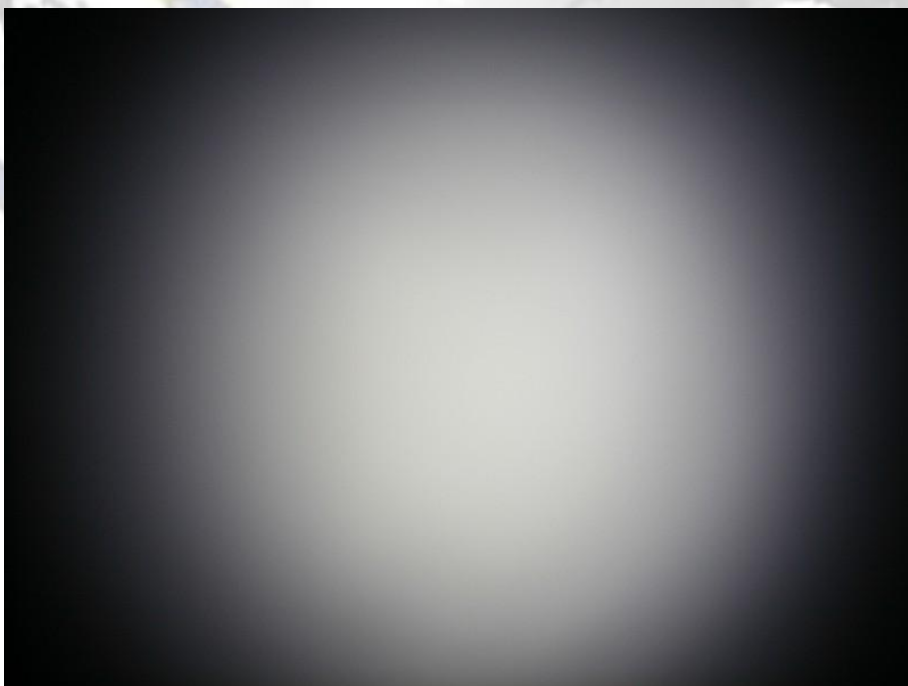
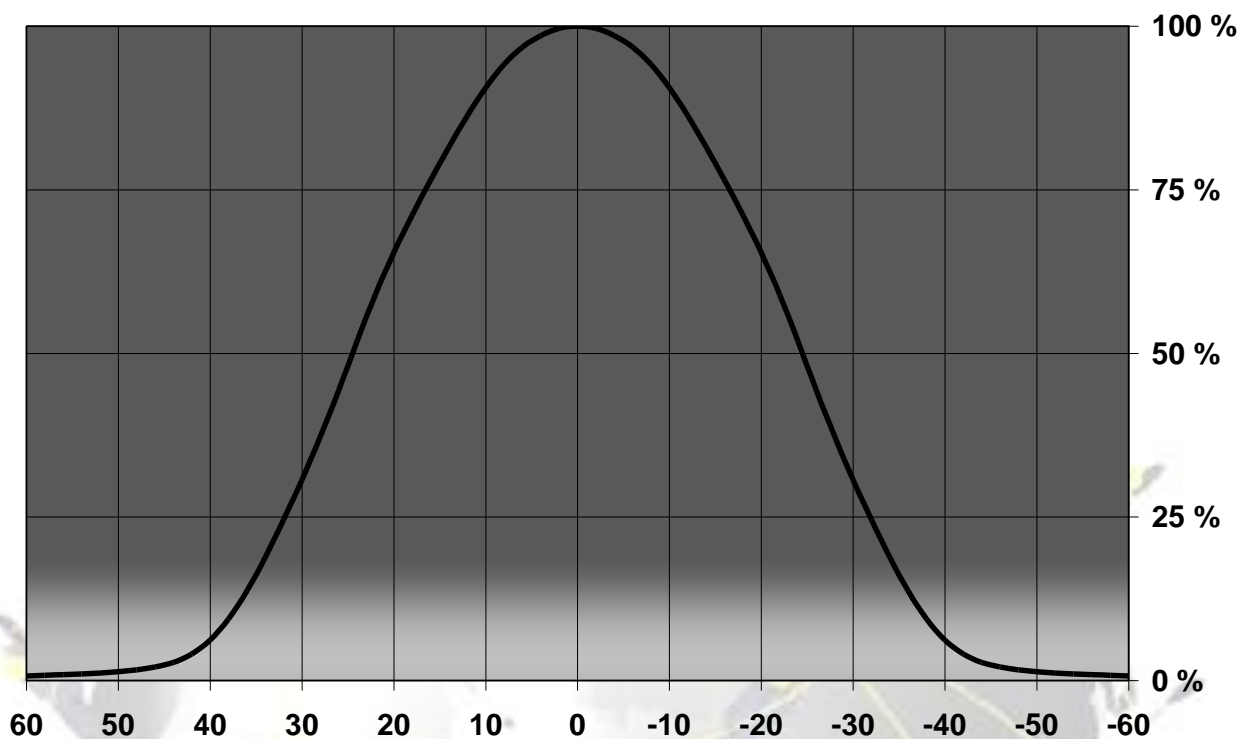


© Ledil Oy - PRELIMINARY - Subject to change without prior notice

Relative intensity of FA11125_Lisa2-O-Pin-XP-G

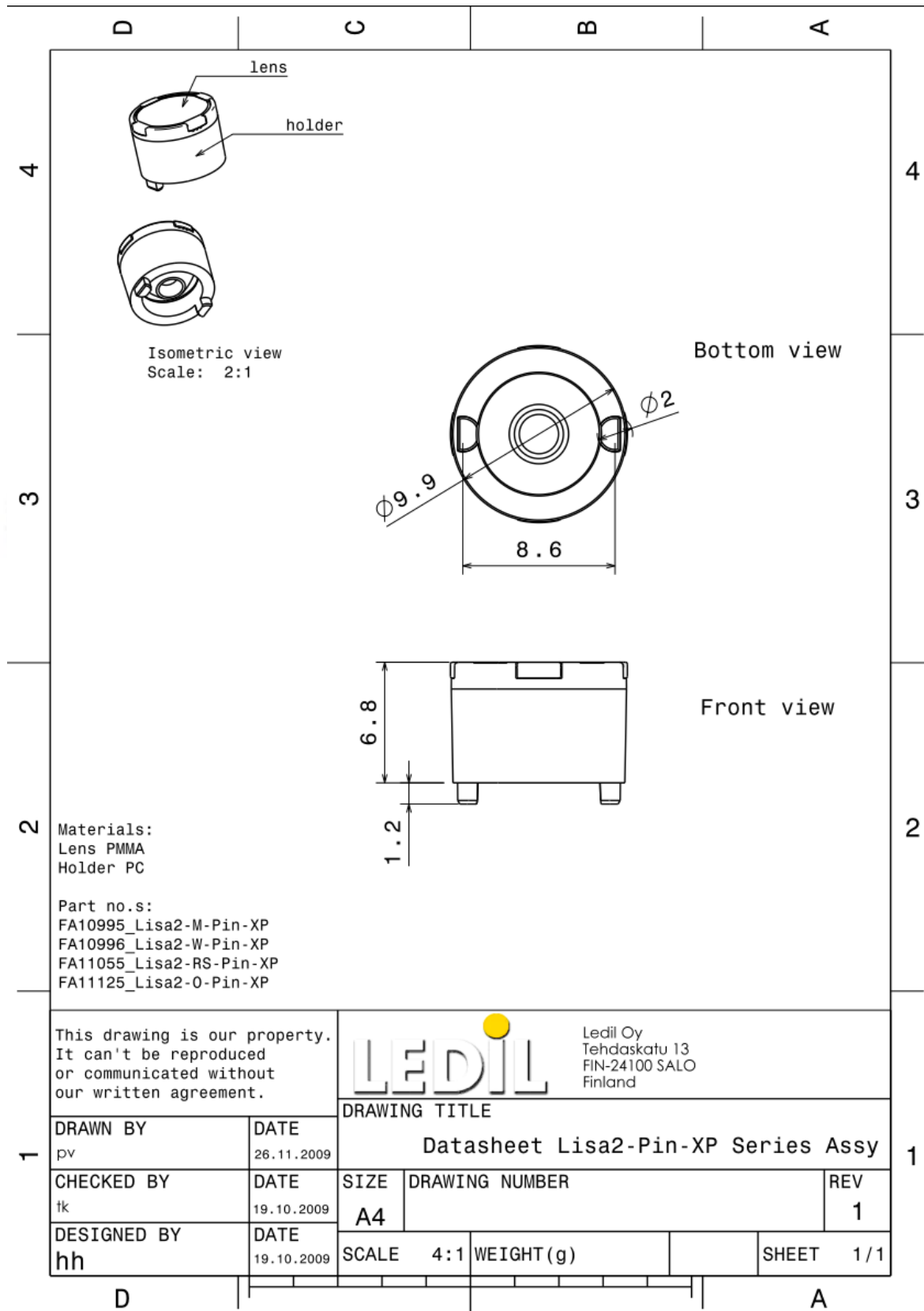


© Ledil Oy – PRELIMINARY - Subject to change without prior notice

Relative Intensity of FA10996_Lisa2-W-Pin-XP-G

© Ledil Oy - PRELIMINARY - Subject to change without prior notice

DRAWINGS



This drawing is our property.
It can't be reproduced
or communicated without
our written agreement.



Ledil Oy
Tehdaskatu 13
FIN-24100 SALO
Finland

DRAWING TITLE

DRAWN BY pv		DATE 26.11.2009		Datasheet Lisa2-Pin-XP Series Assy		
CHECKED BY tk		DATE 19.10.2009		SIZE A4	DRAWING NUMBER	REV 1
DESIGNED BY hh		DATE 19.10.2009		SCALE 4:1	WEIGHT(g)	SHEET 1/1

© Ledil Oy - PRELIMINARY - Subject to change without prior notice