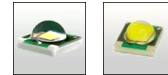


LISA2-CLIP16-XP MINIATURE LENS FOR CREE XP SERIES OF LEDs



- 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 snap clips. See drawing below for more details. Fastening of holder the lens to PCB.
- Very small and compact dimensions: Diameter 9.9 mm, height 6.8 mm.

LENS TYPES

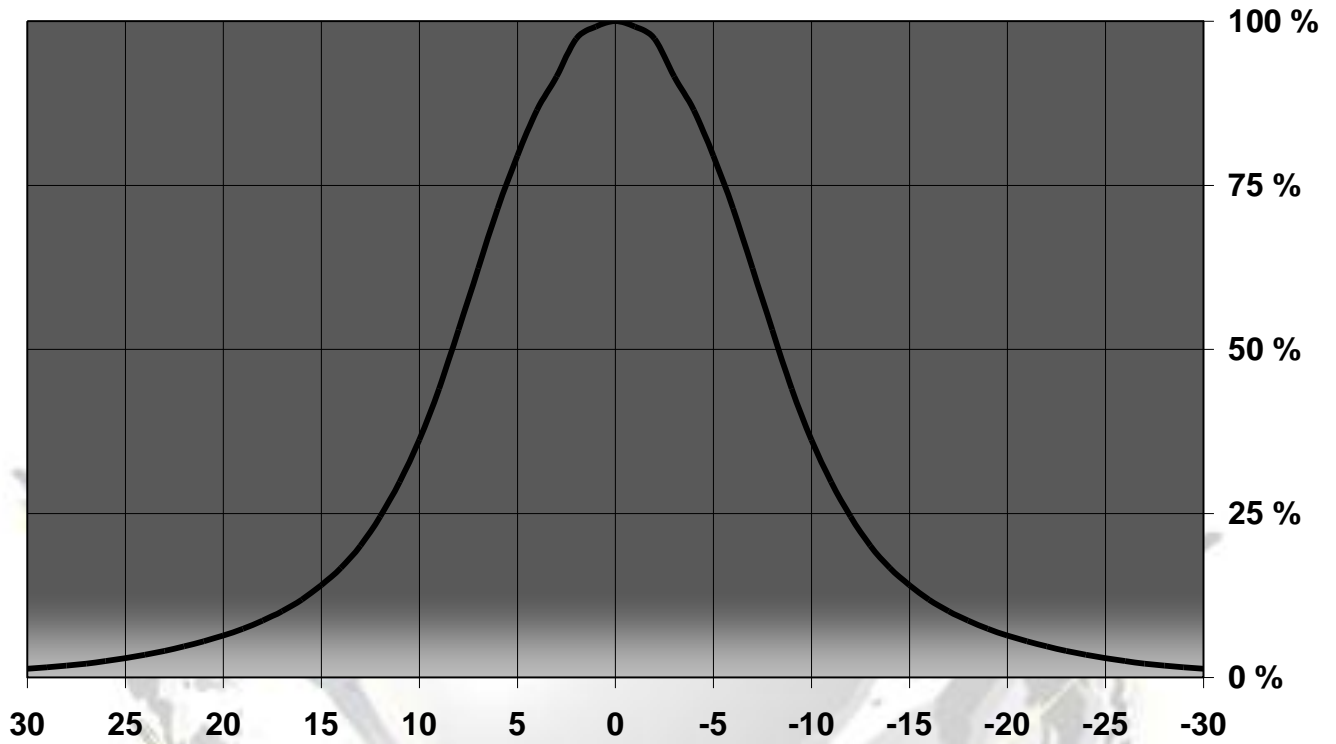
NAME	ORDERING CODE	FWHM Angle
Lisa2-Clip16 Real Spot	FA11085_Lisa2-RS-clip16-XP	±8°
Lisa2-Clip16 Medium	FA11075_Lisa2-M-clip16-XP	±12°
Lisa2-Clip16 Oval	FA11121_Lisa2-O-clip16-XP	±9° x ±24°
Lisa2-Clip16 Oval-90	FA11856_Lisa2-O-90-clip16-XP	±9° x ±24°
Lisa2-Clip16 Wide	FA11076_Lisa2-W-clip16-XP	±20°
Lisa2-Clip16 WW	FA11077_Lisa2-WW-clip16-XP	±30°
Lisa2-Clip16 WWW	FA11431_Lisa2-WWW-clip16-XP	~±34°

Lisa2-Clip16 Real Spot	FA11085_Lisa2-RS-clip16-XP-G	±13°
Lisa2-Clip16 Medium	FA11075_Lisa2-M-clip16-XP-G	±17°
Lisa2-Clip16 Oval	FA11121_Lisa2-O-clip16-XP-G	±12° x ±23°
Lisa2-Clip16 Oval-90	FA11856_Lisa2-O-90-clip16-XP-G	±12° x ±23°
Lisa2-Clip16 Wide	FA11076_Lisa2-W-clip16-XP-G	±20°
Lisa2-Clip16 WW	FA11077_Lisa2-WW-clip16-XP-G	~±30°
Lisa2-Clip16 WWW	FA11431_Lisa2-WWW-clip16-XP-G	~±40°

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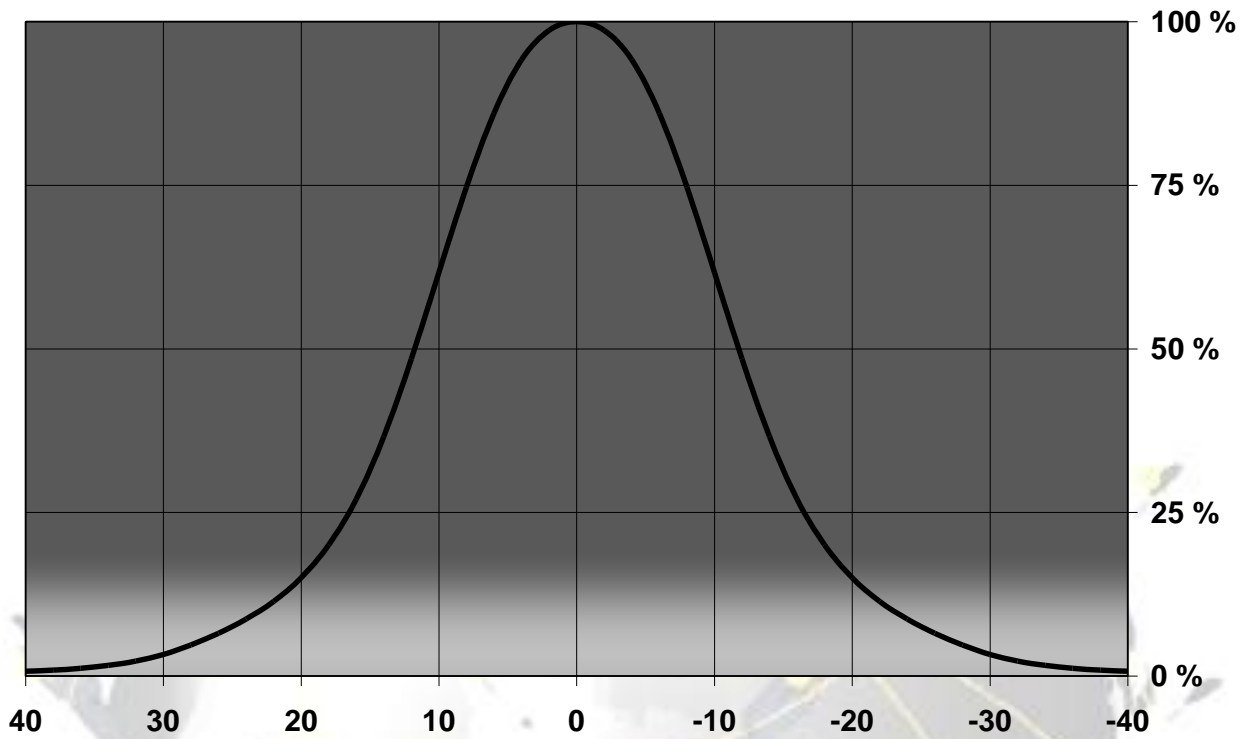
MEASUREMENT DATA FOR CREE XP-E

Relative Intensity of FA11055_Lisa2-RS-Pin-XP



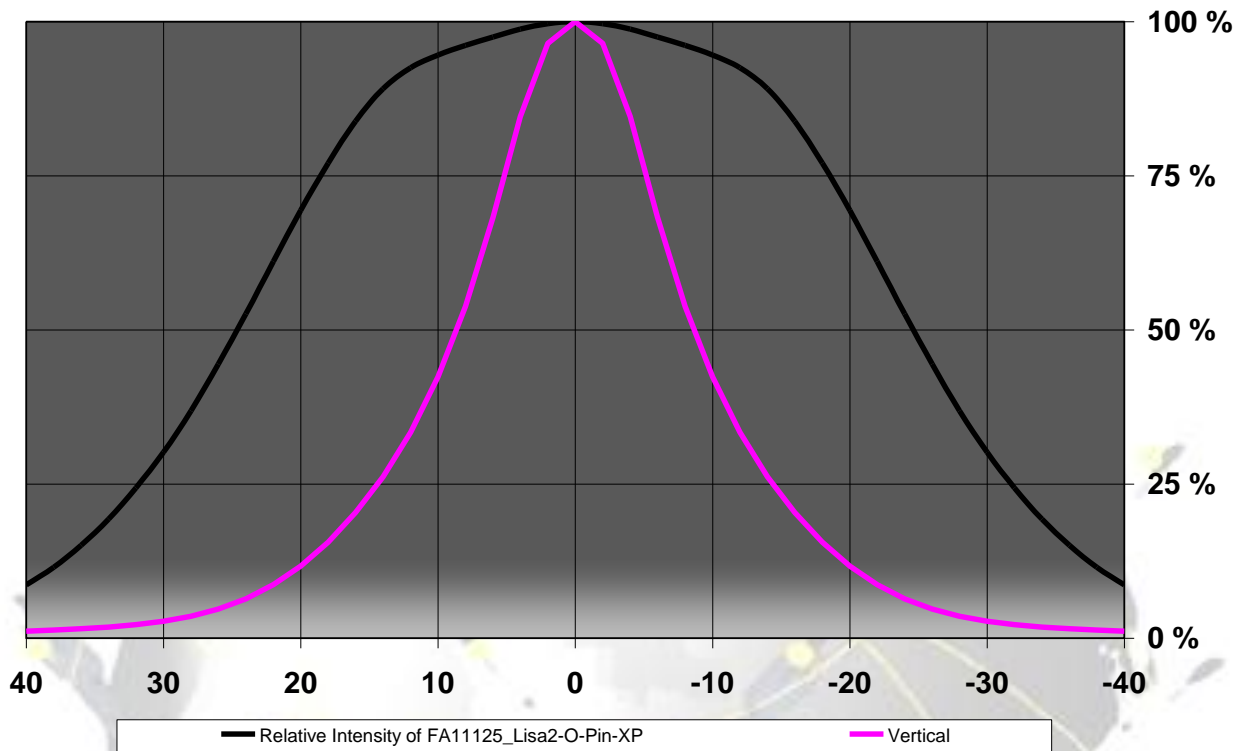
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Relative Intensity of FA10995_Lisa2-M-Pin-XP



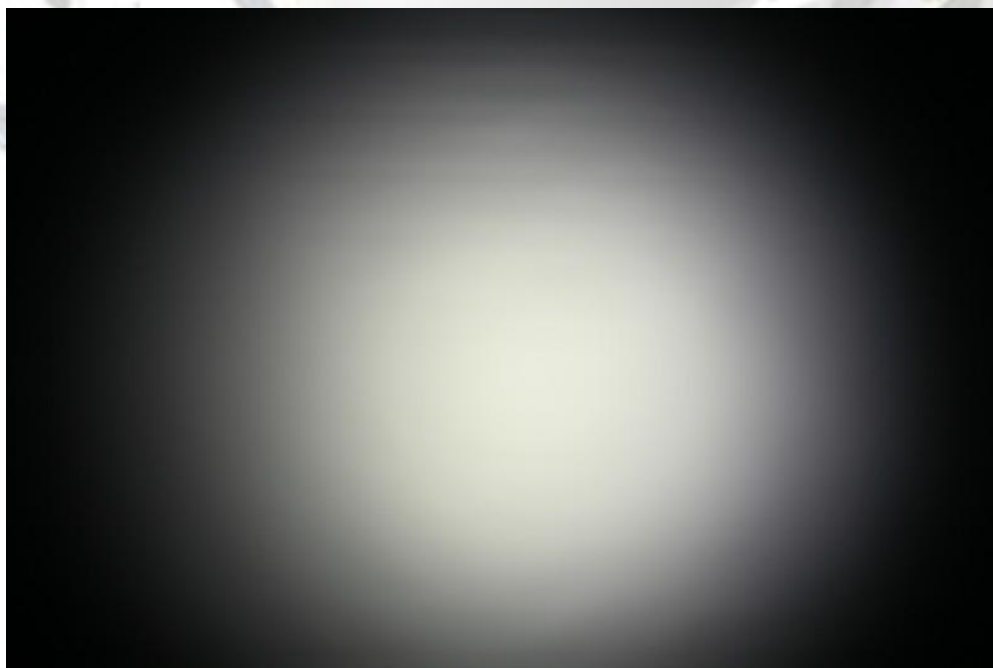
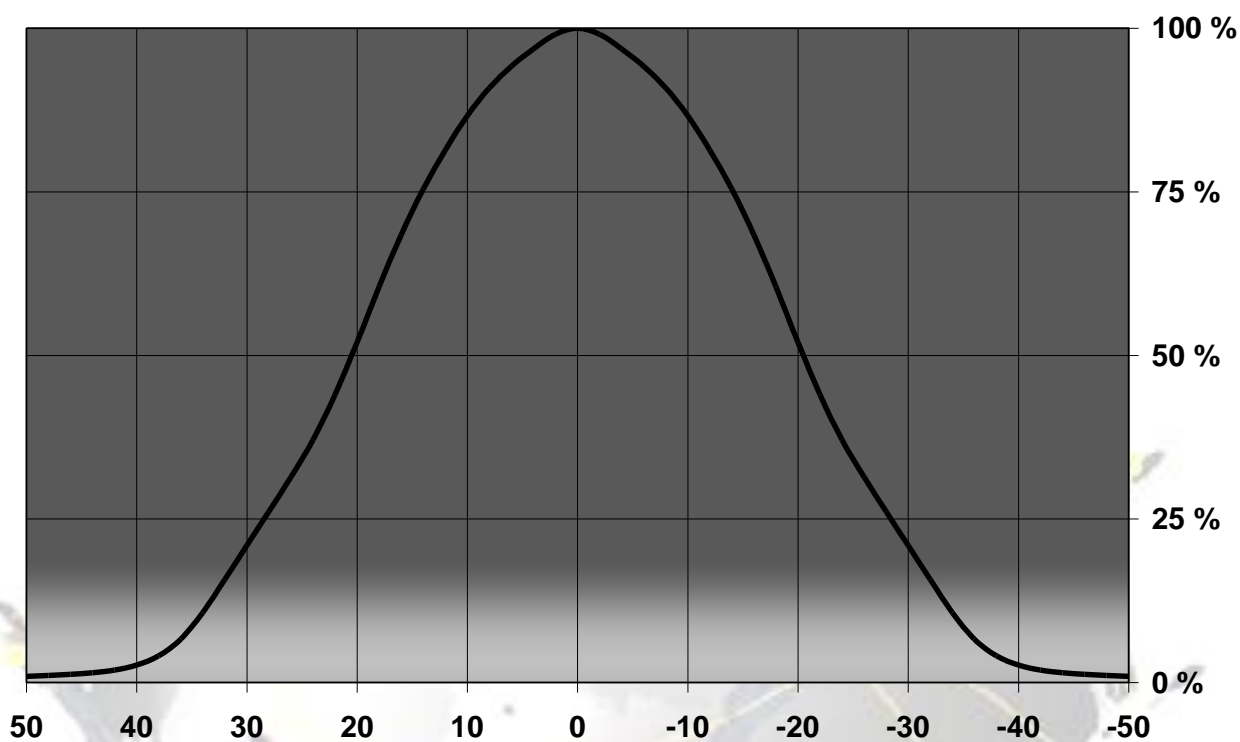
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Relative intensity of FA11125_Lisa2-O-Pin-XP



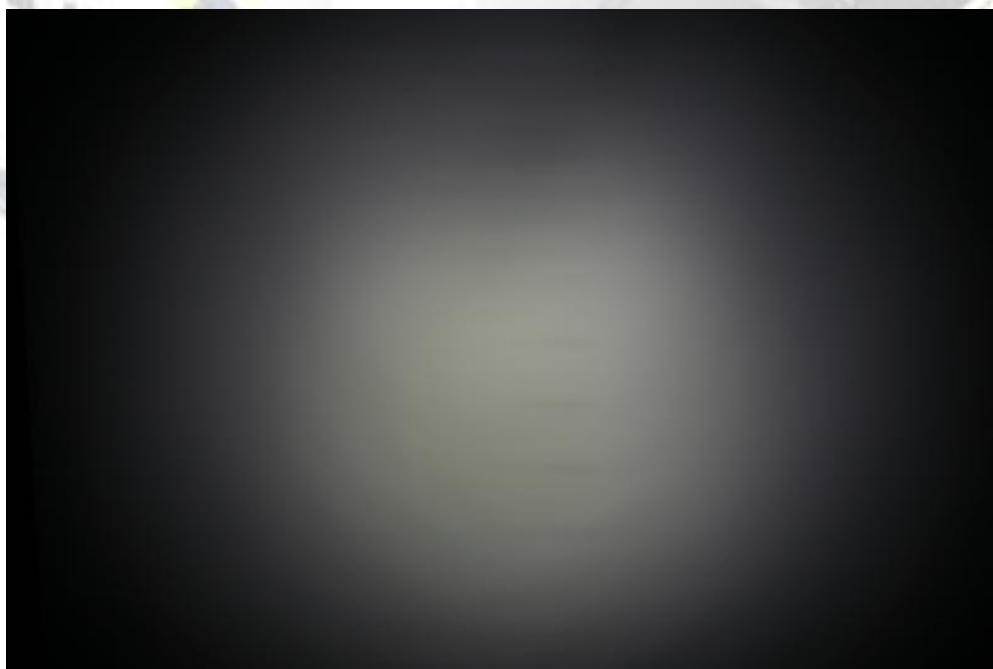
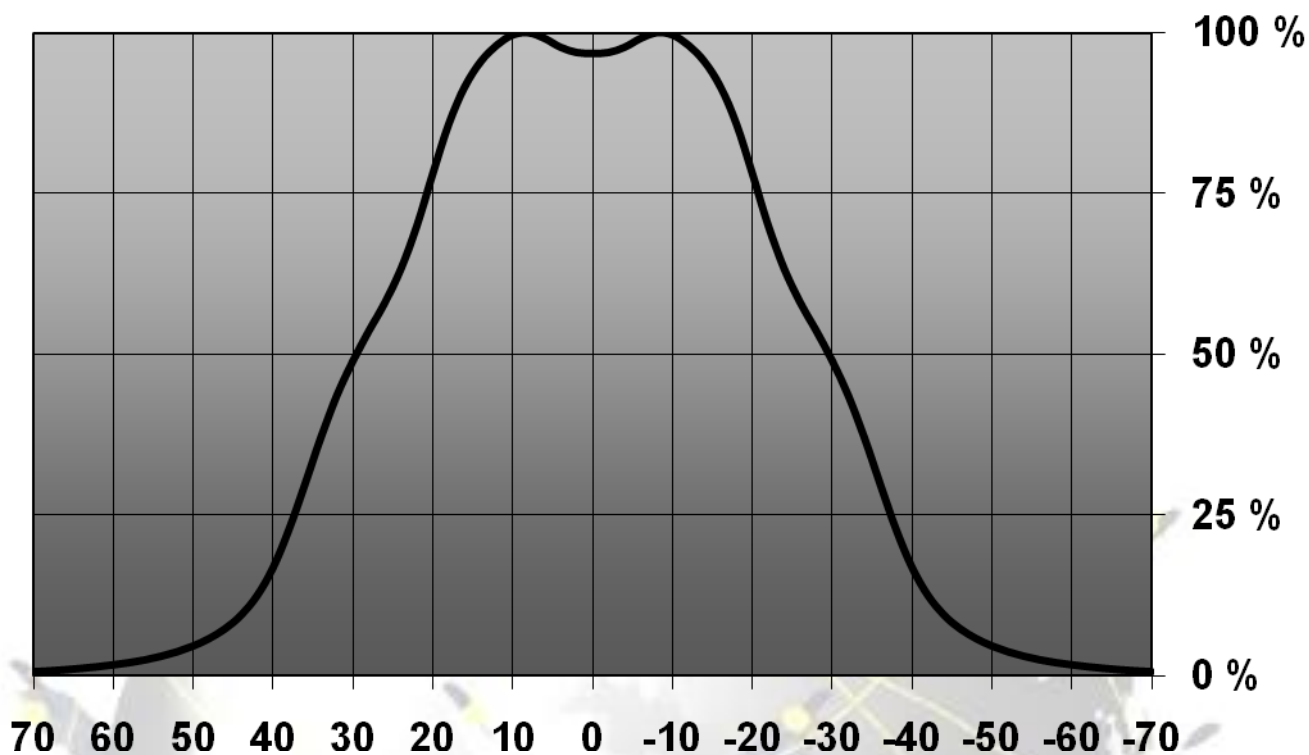
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Relative Intensity of FA10996_Lisa2-W-Pin-XP



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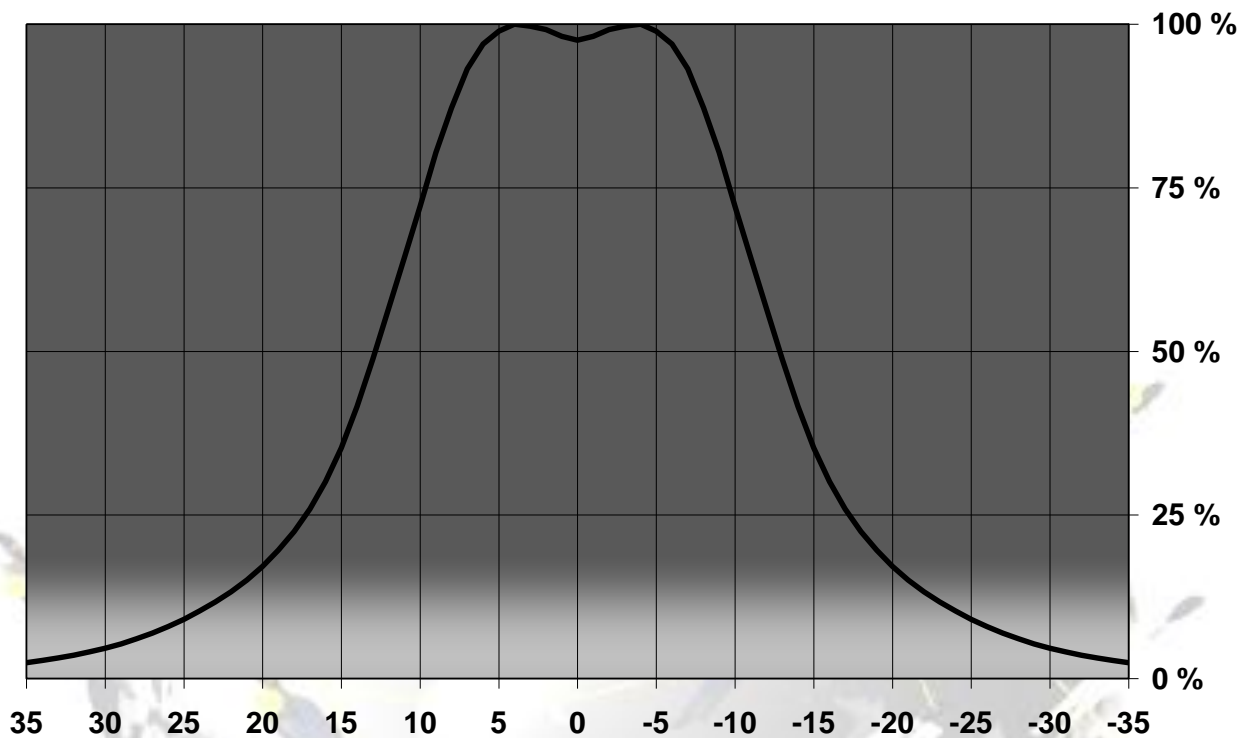
Relative intensity of FA10997_Lisa2-WW-Pin-XP



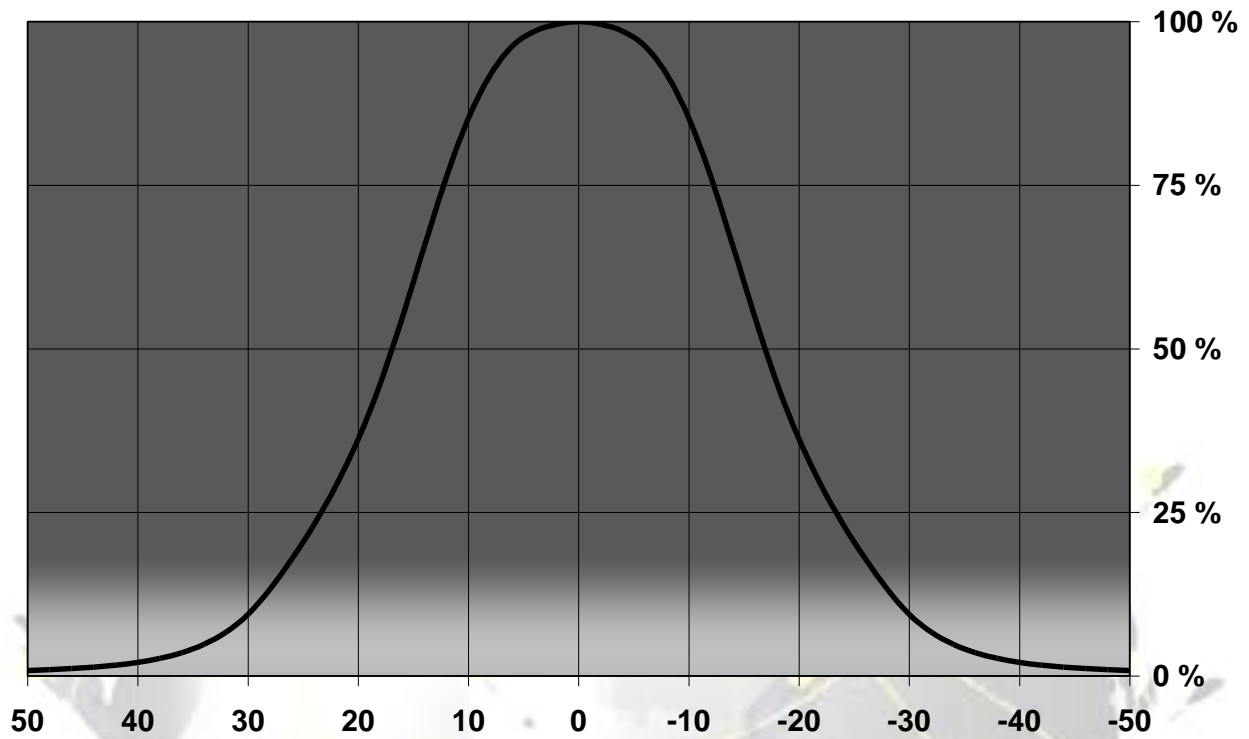
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MEASUREMENT DATA FOR CREE XP-G

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

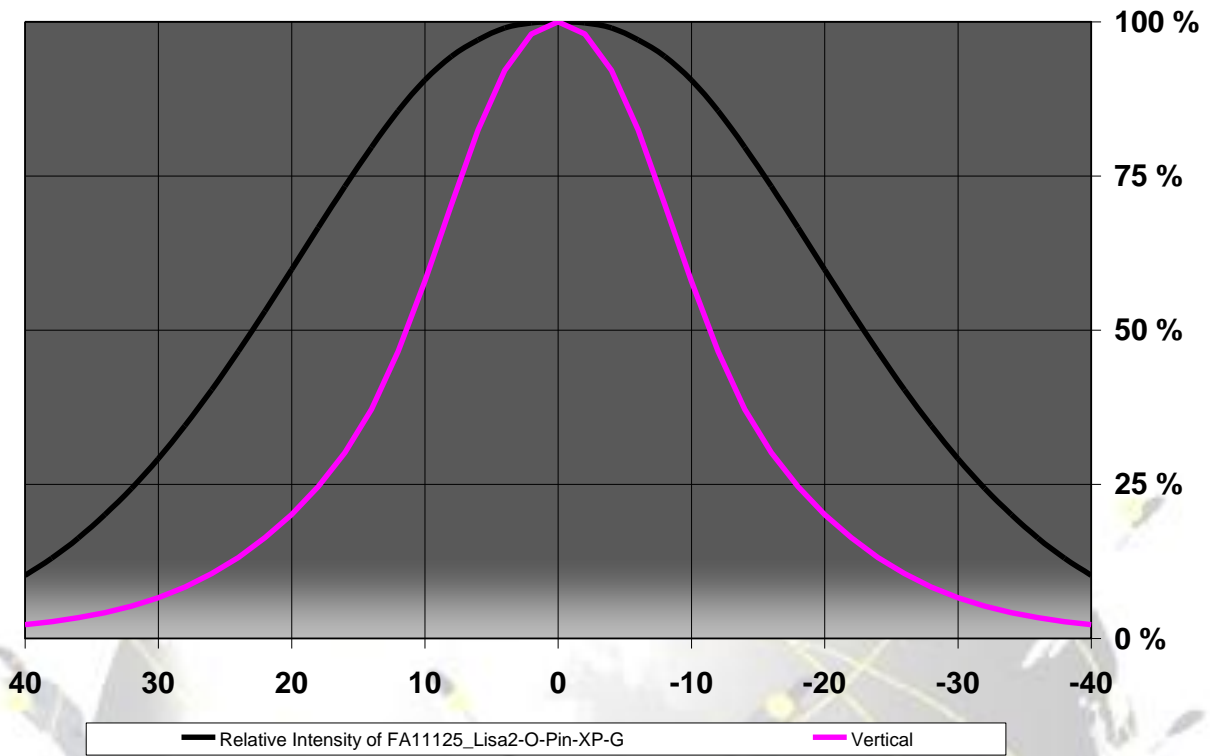


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Relative Intensity of FA10995_Lisa2-M-Pin-XP-G

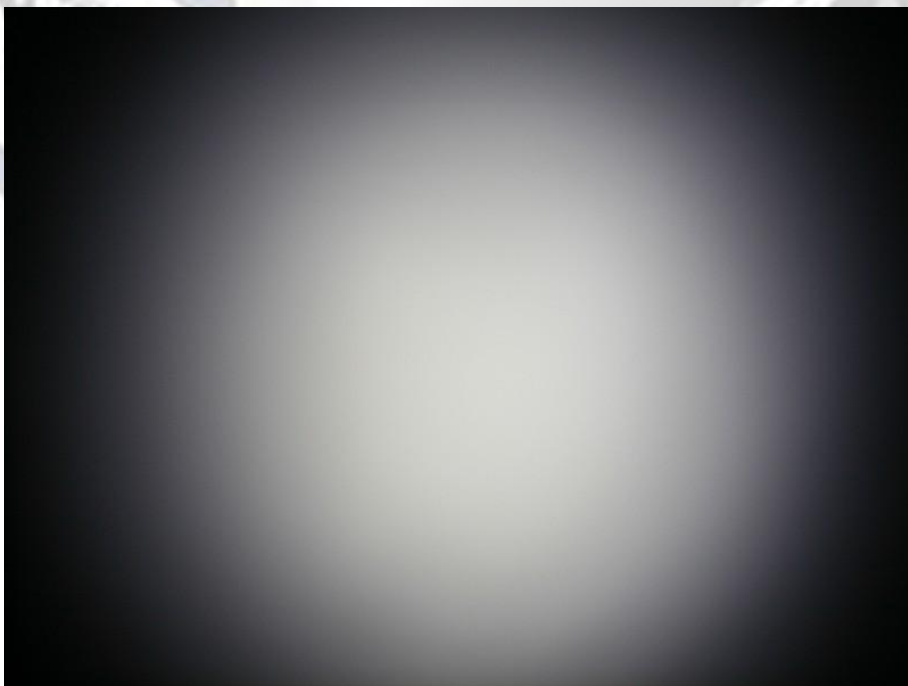
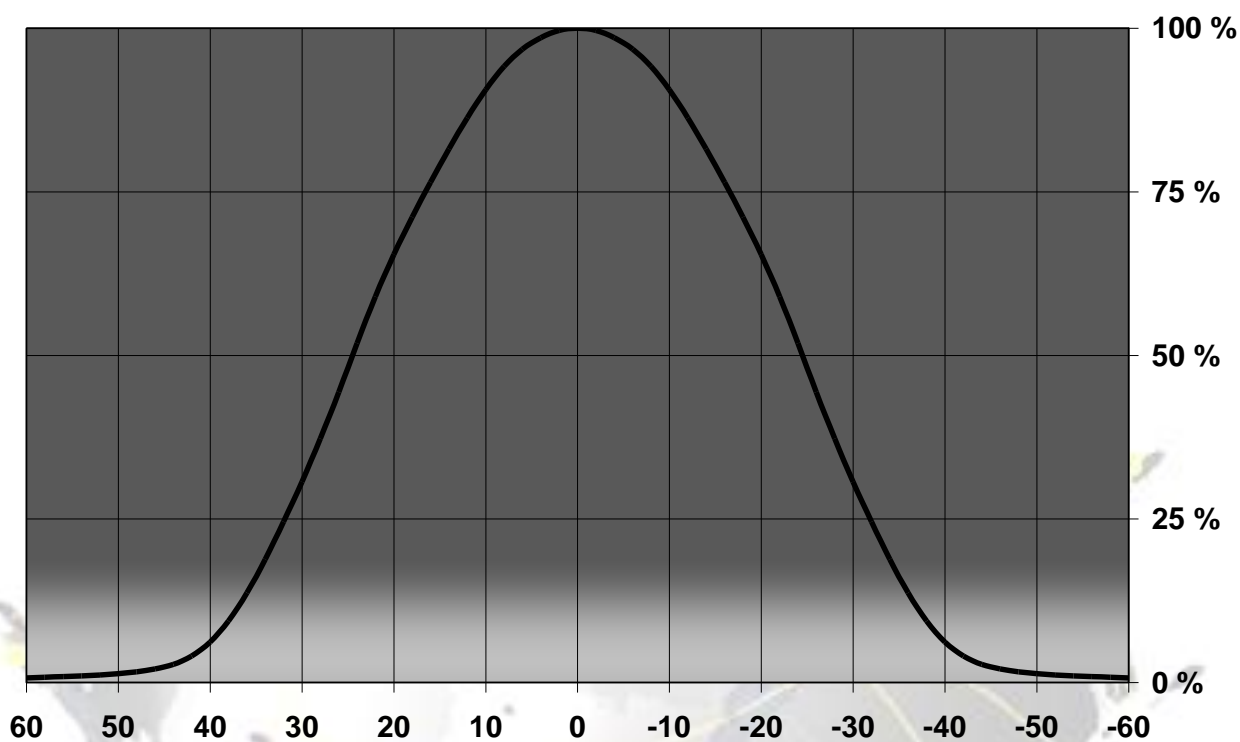
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Relative intensity of FA11125_Lisa2-O-Pin-XP-G



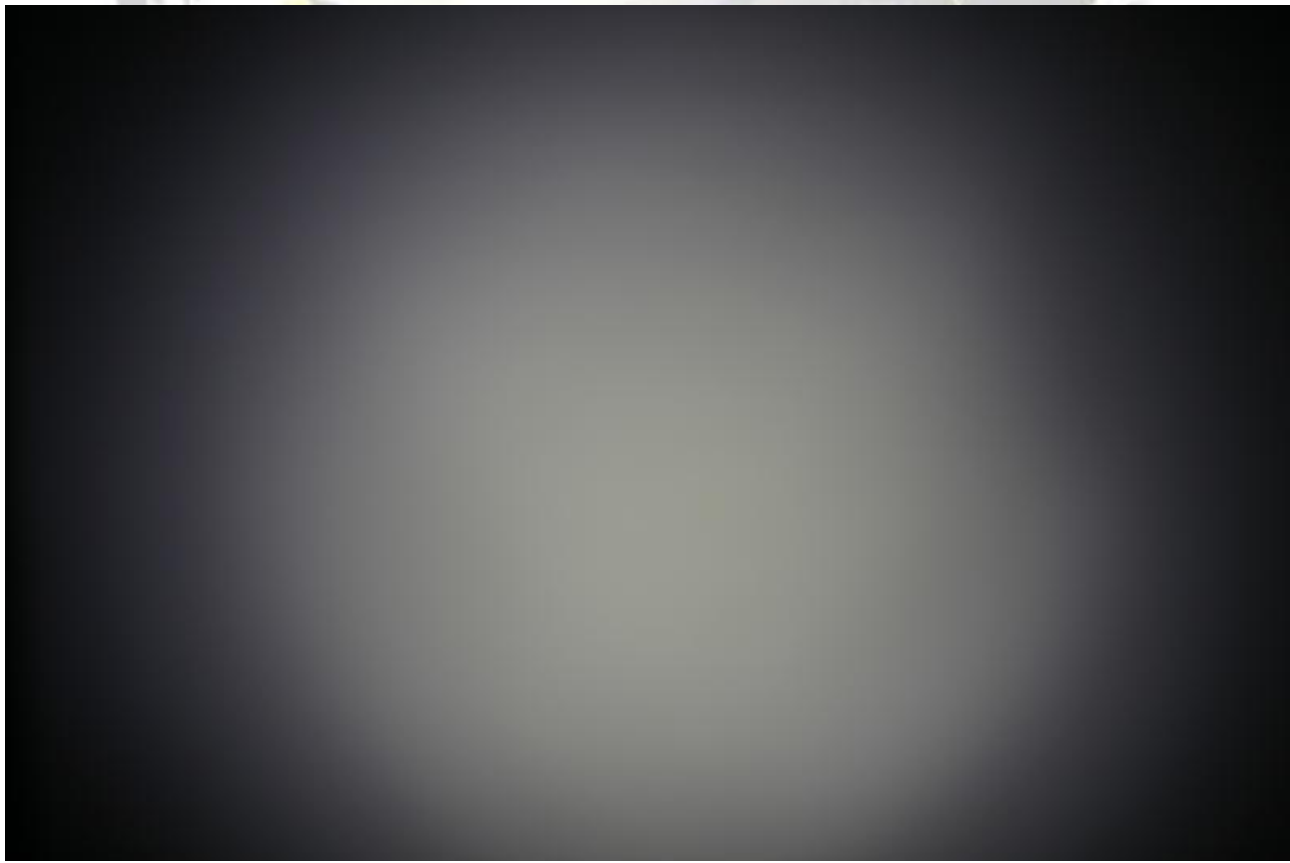
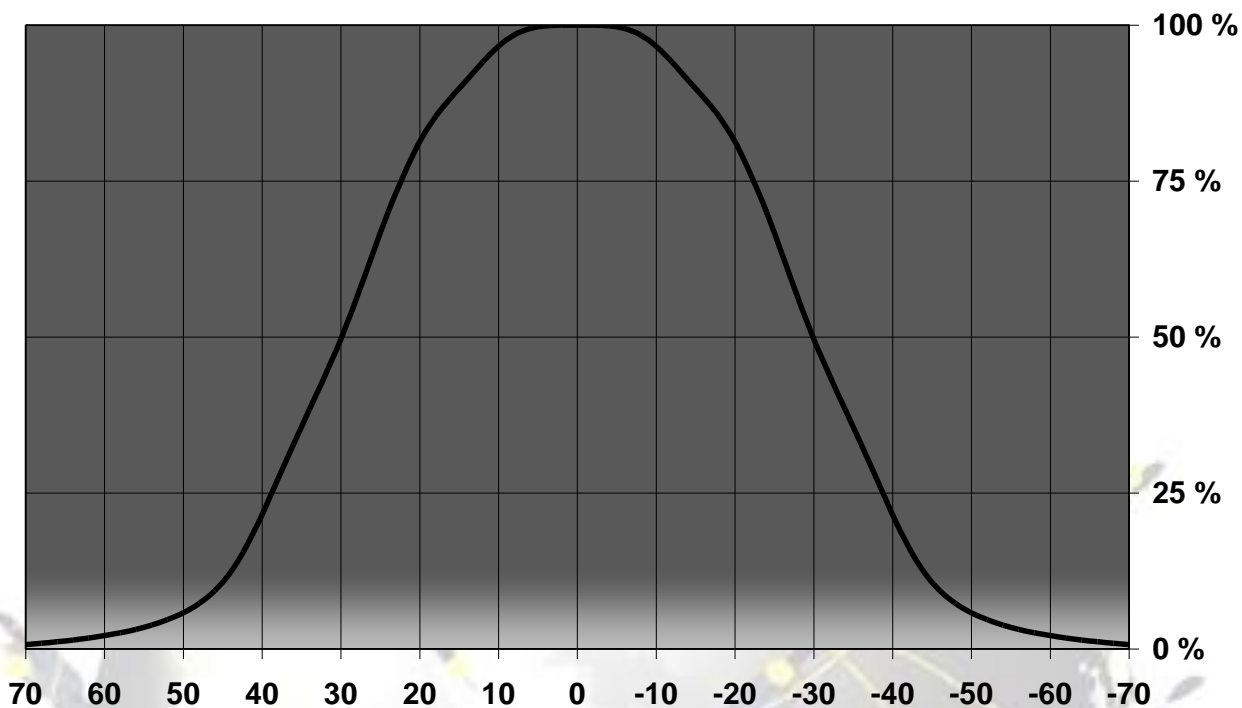
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Relative Intensity of FA10996_Lisa2-W-Pin-XP-G



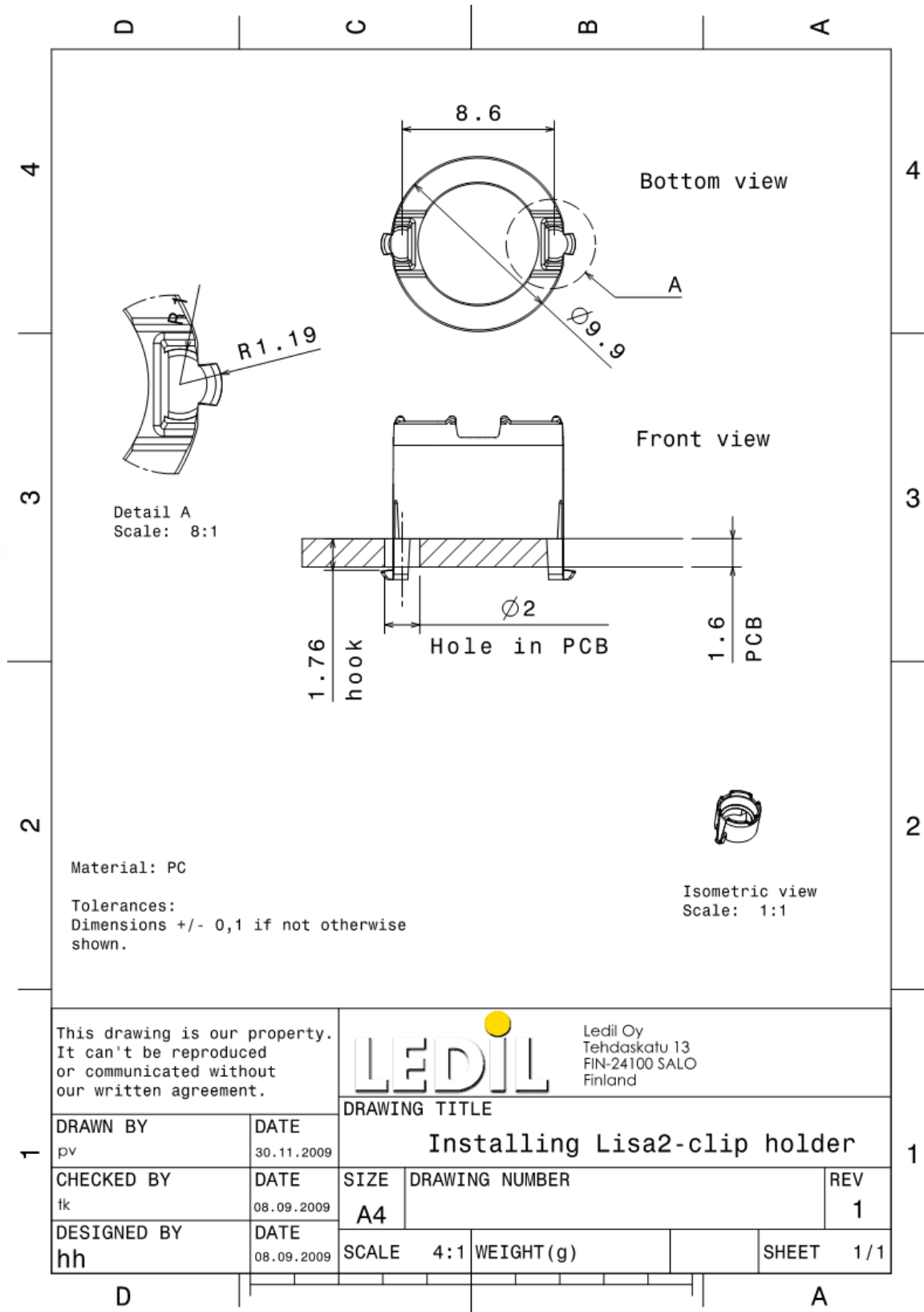
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Relative intensity of FA10997_Lisa2-WW-Pin-XP-G



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DRAWINGS



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Ledil Oy
 Tehdaskatu 13
 FIN-24100 SALO
 Finland

DRAWN BY pv		DATE 30.11.2009	DRAWING TITLE Installing Lisa2-clip holder		
CHECKED BY tk	DATE 08.09.2009	SIZE A4	DRAWING NUMBER	REV 1	
DESIGNED BY hh	DATE 08.09.2009	SCALE 4:1	WEIGHT(g)	SHEET 1/1	

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