PRODUCT DATASHEET
Emily series
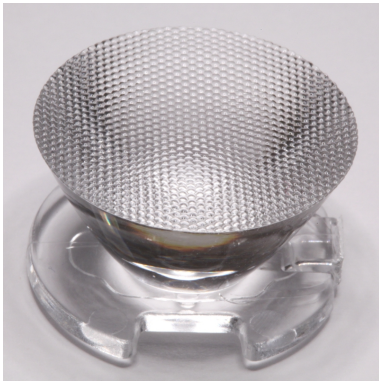
Ordering number	**CA11387**		
Description	**CA11387_Emily-SS-XP**		
Family	Emily	FWHM	10 degrees
Type	Lens	Efficiency	-
LED	XP-E	cd/lm	-
Color	Transparent	Gerber File	Available
Diameter	26 mm		
Height	15.1 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	-		
Fastening	Tape, pin		
Status	Ready		

Ordering number	**CA11388**		
Description	**CA11388_Emily-M-XP**		
Family	Emily	FWHM	18 degrees
Type	Lens	Efficiency	-
LED	XP-E	cd/lm	-
Color	Transparent	Gerber File	Available
Diameter	26 mm		
Height	15.1 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	-		
Fastening	Tape, pin		
Status	Ready		

Ordering number	**CA11391**		
Description	**CA11391_Emily-M2-XP**		
Family	Emily	FWHM	28 degrees
Type	Lens	Efficiency	-
LED	XP-E	cd/lm	-
Color	Transparent	Gerber File	Available
Diameter	26 mm		
Height	15.1 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	-		
Fastening	Tape, pin		
Status	Ready		

Ordering number	**CA11934**		
Description	**CA11934_Emily-W-XP**		
Family	Emily	FWHM	40 degrees
Type	Lens	Efficiency	86 %
LED	XP-E	cd/lm	-
Color	Transparent	Gerber File	Available
Diameter	26 mm		
Height	15.1 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	-		
Fastening	-		
Status	Ready		

Ordering number	CA11389		
Description	**CA11389_Emily-O-XP**		
Family	Emily	FWHM	44+9 degrees
Type	Lens	Efficiency	-
LED	XP-E	cd/lm	-
Color	Transparent	Gerber File	Available
Diameter	26 mm		
Height	15.1 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	-		
Fastening	Tape, pin		
Status	Ready		
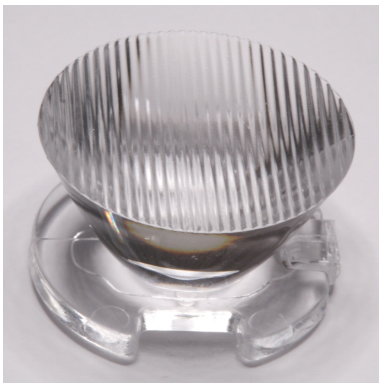
Ordering number	CA11390		
Description	**CA11390_Emily-O-90-XP**		
Family	Emily	FWHM	44+10 degrees
Type	Lens	Efficiency	-
LED	XP-E	cd/lm	-
Color	Transparent	Gerber File	Available
Diameter	26 mm		
Height	15.1 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	-		
Fastening	Tape, pin		
Status	Ready		

NOTE: The typical divergence will be changed by different color, chip size and chip position tolerance. The typical total divergence is the full angle measured where the luminous intensity is half of the peak value.

PRODUCT DATASHEET
Emily series

GENERAL INFORMATION

- Product series especially designed & optimized for XP-E series of LEDs.
- Special care taken to make light distribution as uniform as possible.
- Lens material optical grade PMMA with high UV and temperature resistance (105 degrees of Celcius / 220 degrees of Fahrenheit). Allows use of high current and temperature conditions.

Please find more information about used material from below:
http://ledil.fi/sites/default/files/Documents/Technical/Material/PMMA%208N%20UL94_Yellow%20Card.pdf
http://ledil.fi/sites/default/files/Documents/Technical/Material/PMMA%208N%20PLEXIGLAS-Datasheet.pdf

- Fastening to heat sink with a PU foam adhesive tape of automotive grade. Please find fastening details by clicking link: http://www.ledil.com/datasheets/DataSheet_TAPE.pdf

NOTE 1: We advise customer to ensure the suitability and sufficiency of the bond in the end product. For example, mechanical stress, vibration and holes on the surface of the circuit boar weaken the strength of the tape.

NOTE 2: Assembly to the surface must be made straight, so the tape bonds constant and balanced with fastening surface. Slanted assembly might cause unbalanced bond to the surface. All surfaces where tape is applied must be clean, dry and free from grease and dirt.

If cleaning of PCB surfaces is needed, please follow strictly the cleaning instructions of your LED manufacturer - this is important as cleaning shall under no circumstances damage LEDs or other electronics components on the PCB.

Further note that optical components shall not be cleaned with any chemicals - only micro fiber cloth may be used to remove fingerprints or other traces from handling.
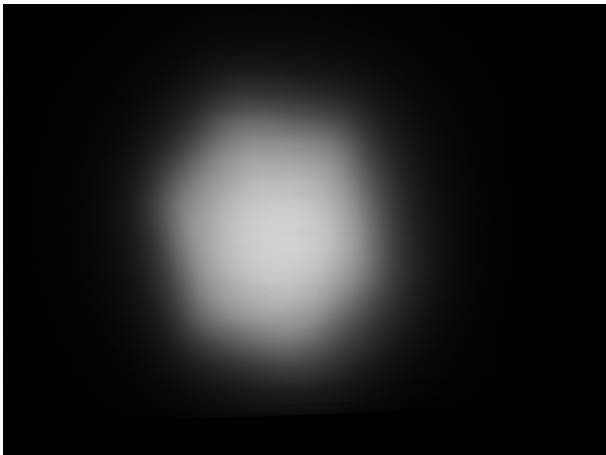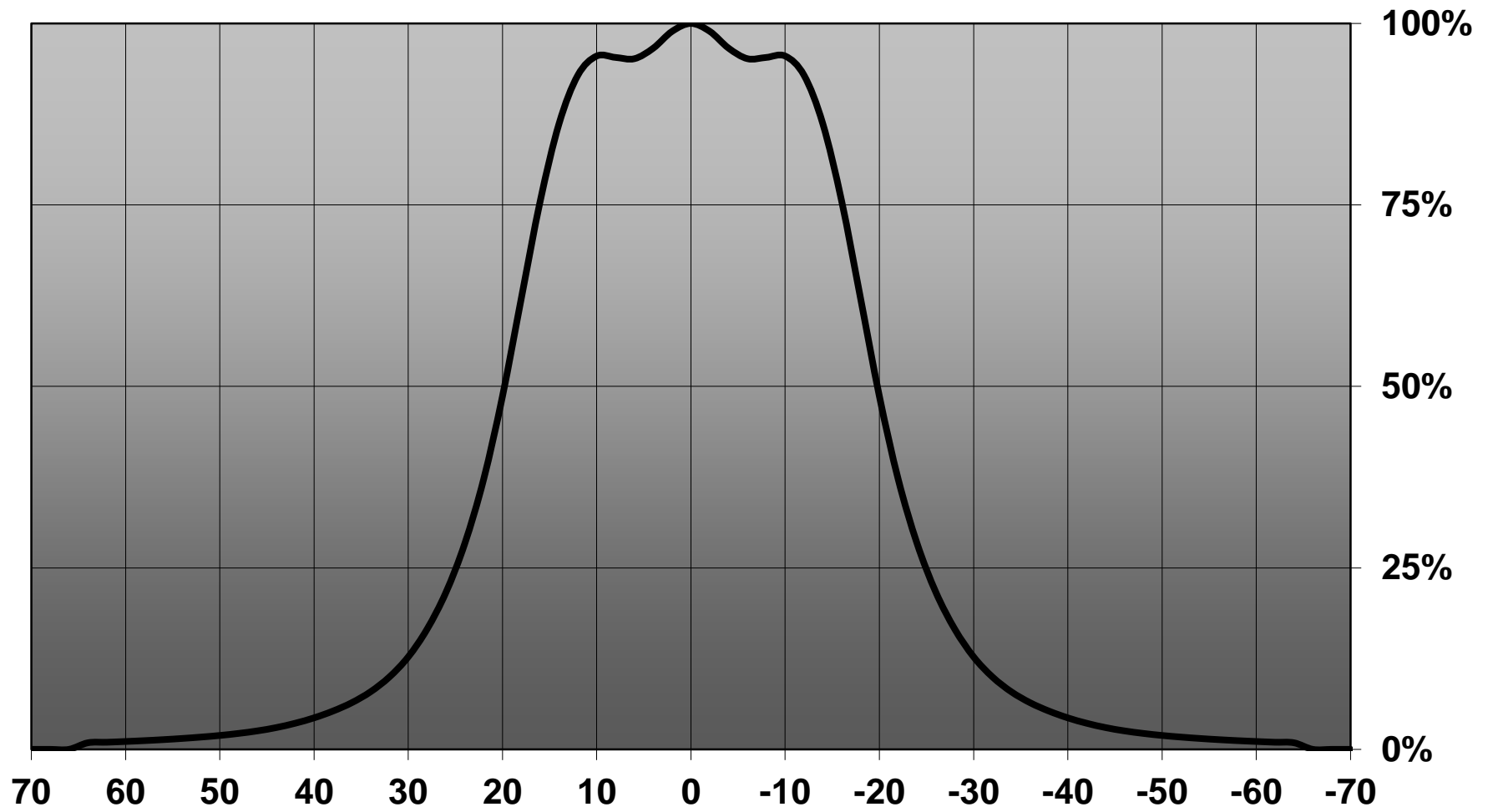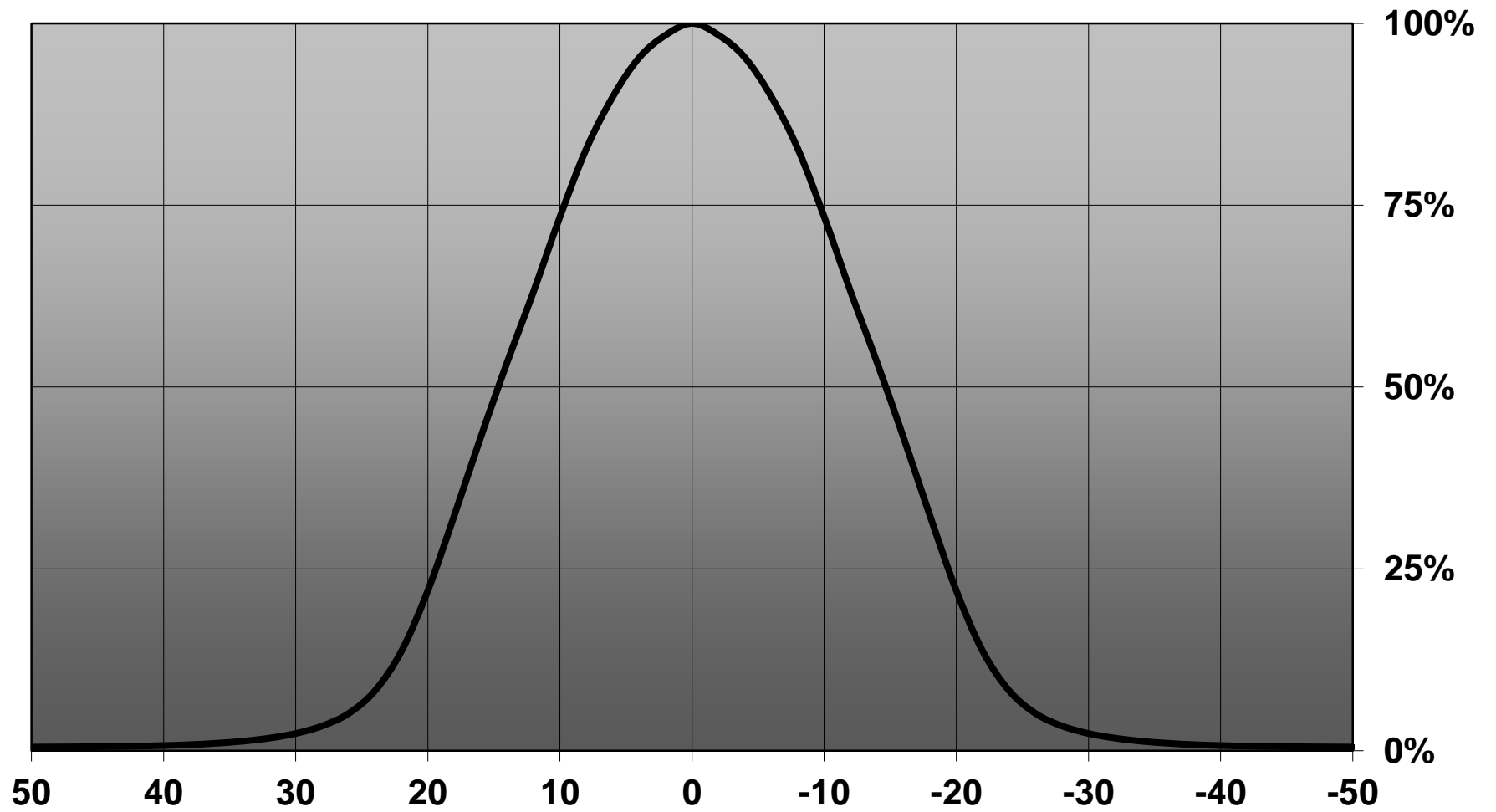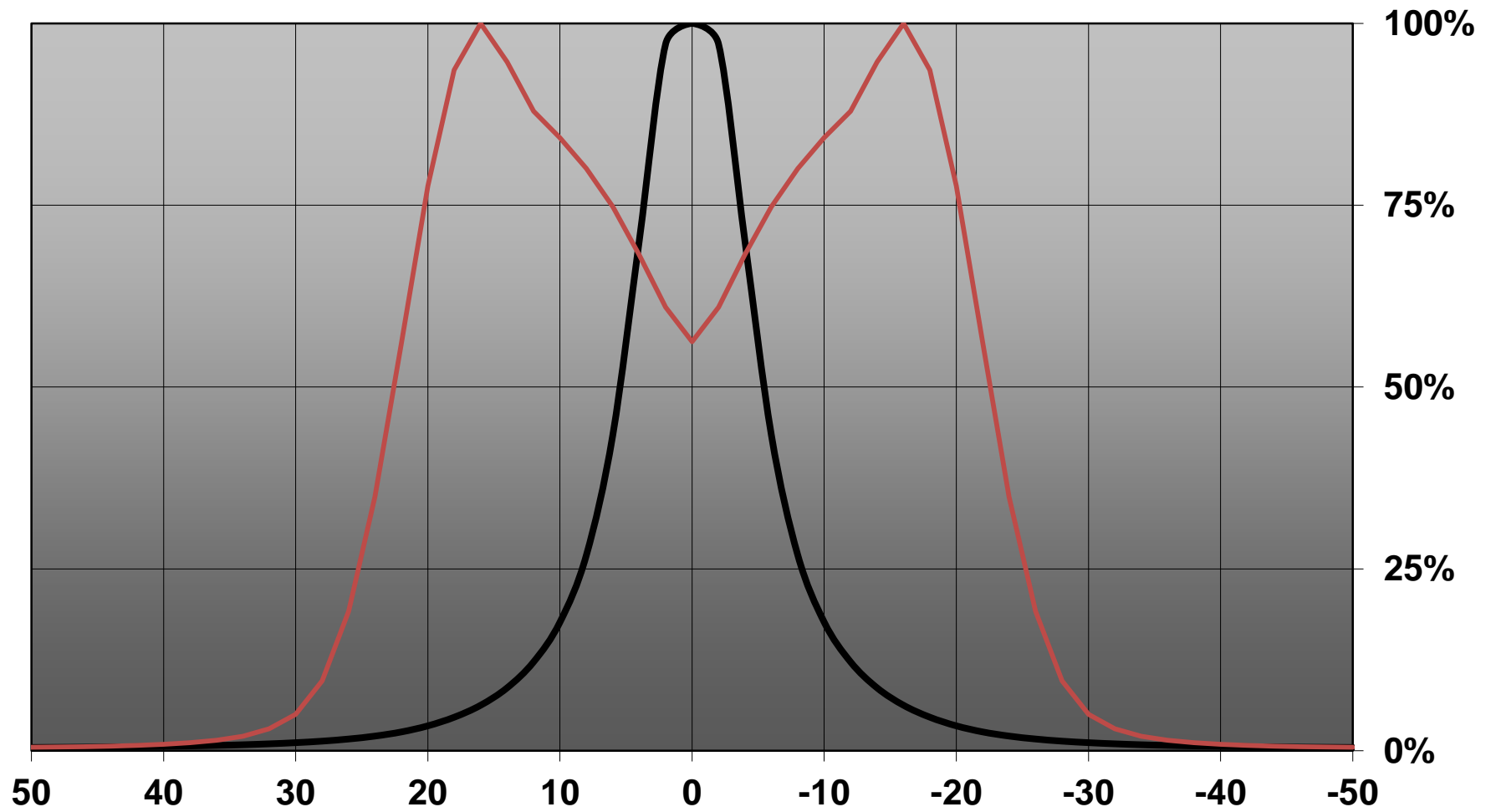
CA11387
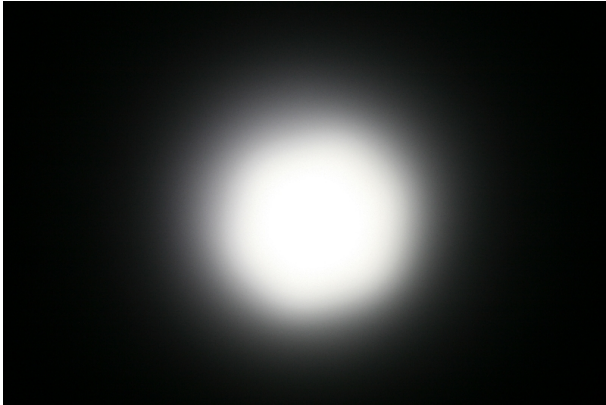
CA11389
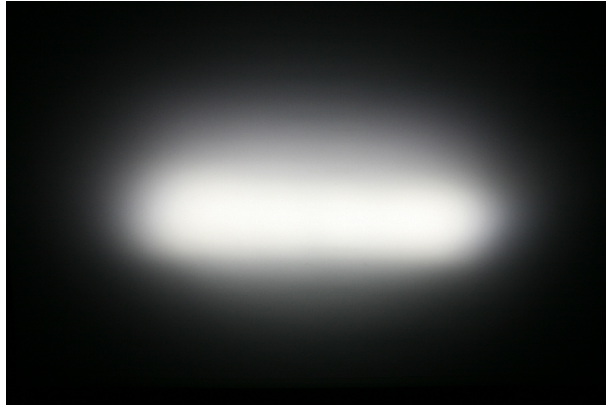
CA11391

CA11934

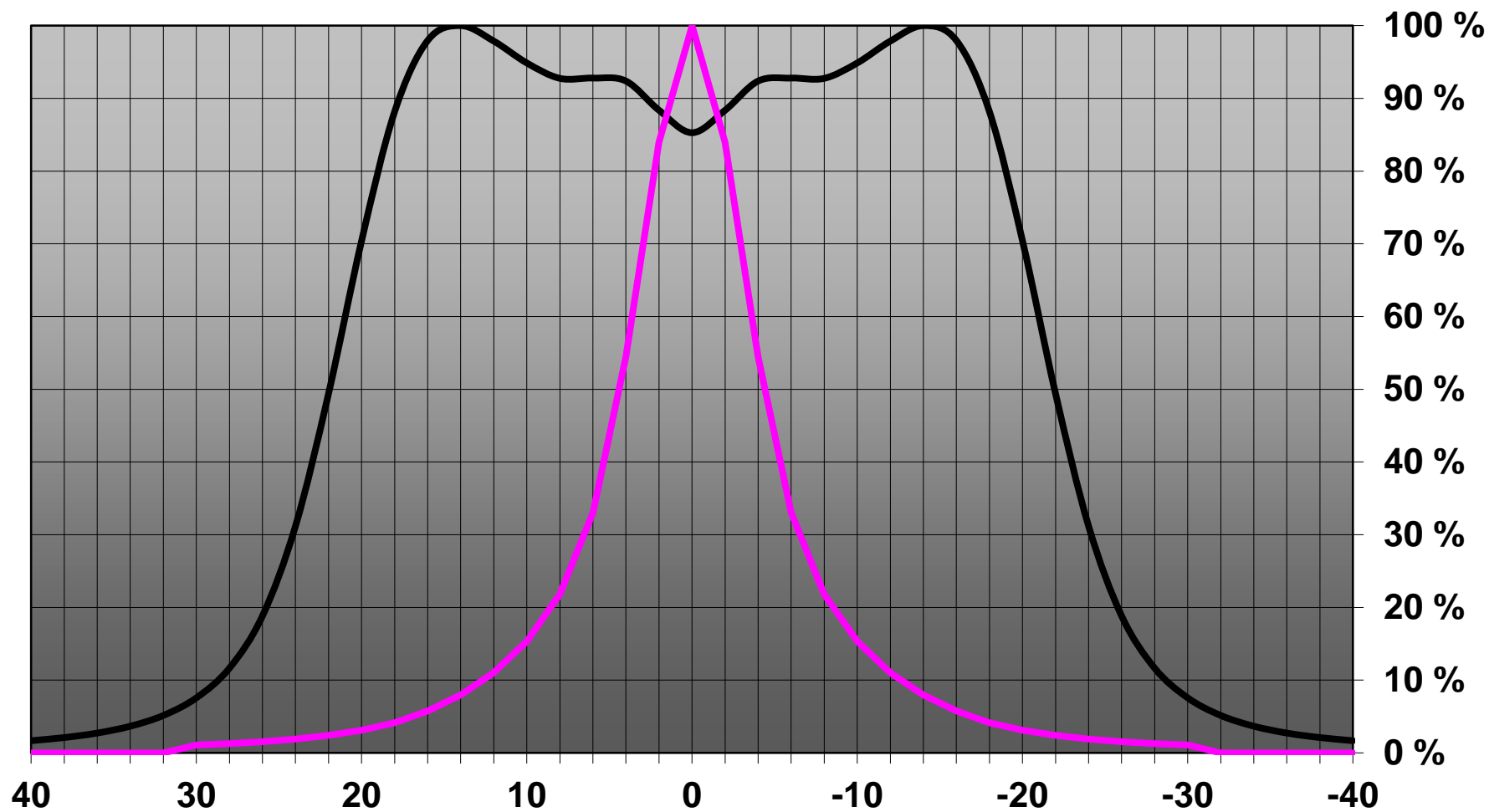Relative intensity of CA11934_Emily-W-XP
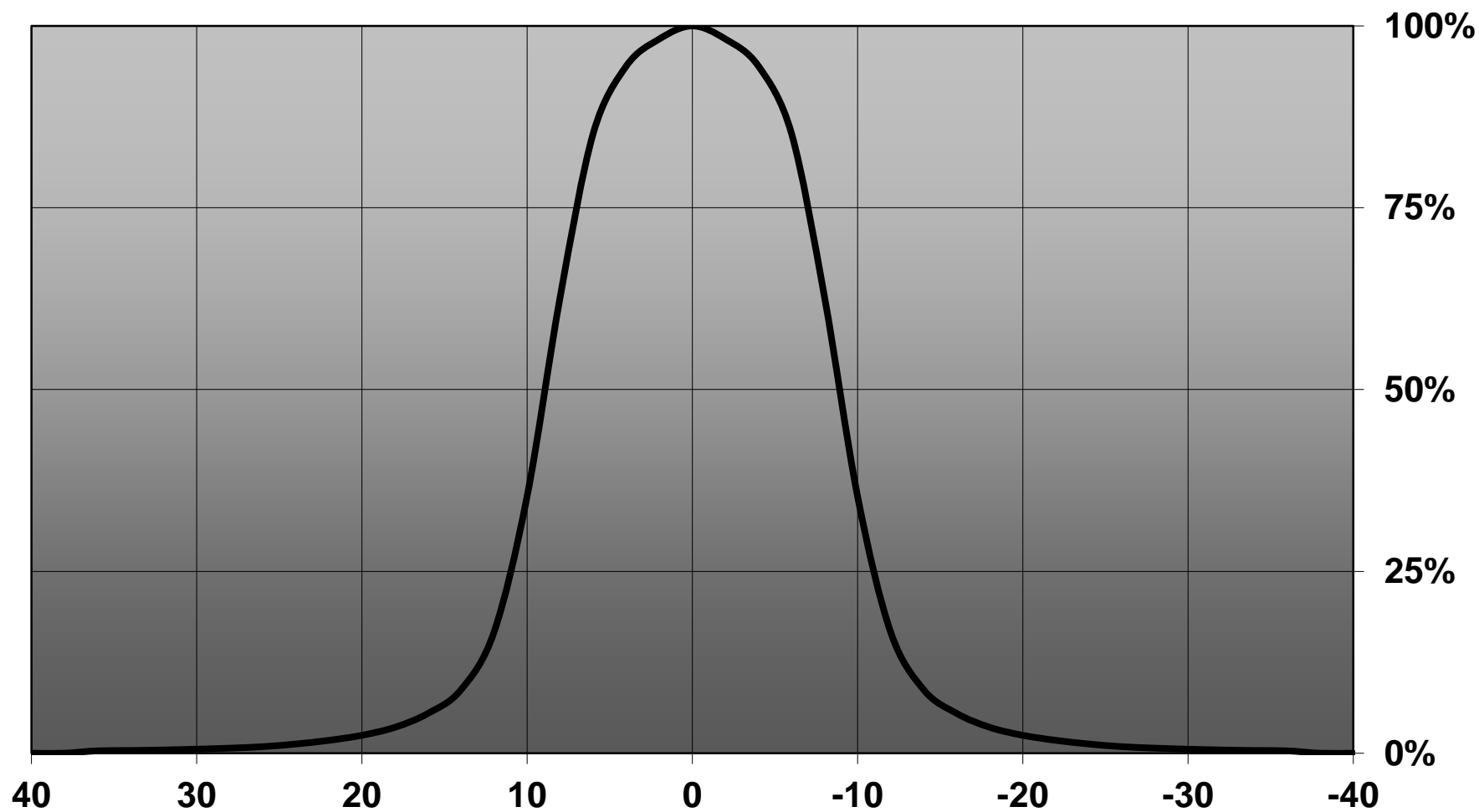
Relative intensity of CA11391_Emily-M2-XP
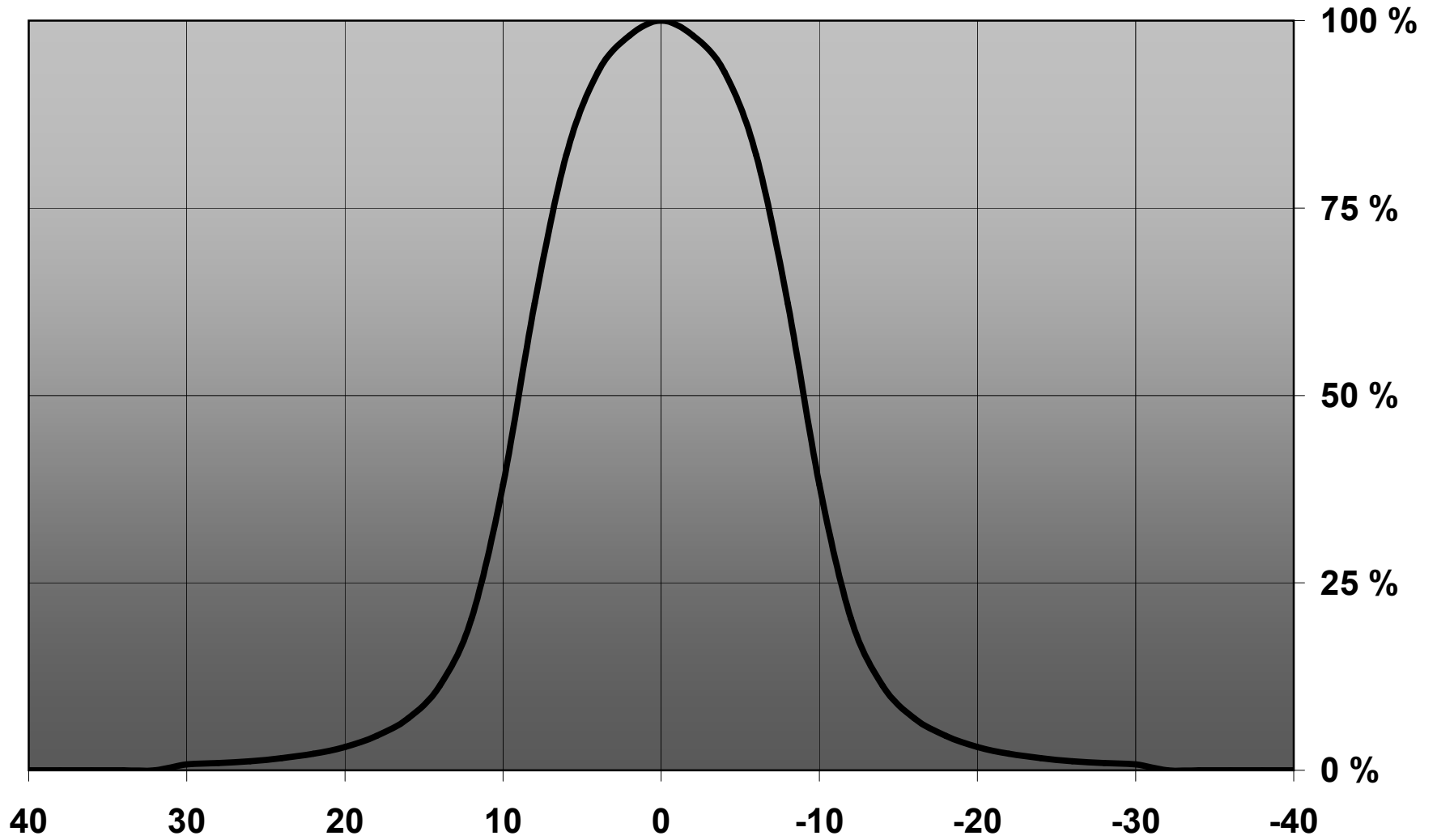
Relative intensity of CA11390_Emily-O-90-XP

Relative Intensity of CA11389_Emily-O-XP

Relative intensity of CA11388_Emily-M-XP

Relative Intensity of CA11388_Emily-M-XP

Material: PMMA

Part no.s:
C11377_Emily-SS-XP-G
C11378_Emily-M-XP-G
C11379_Emily-O-XP-G
C11380_Emily-O-90-XP-G

C11377_Emily-SS-XP
C11378_Emily-M-XP
C11379_Emily-O-XP
C11380_Emily-O-90-XP

C11377_Emily-SS-OSL
C11378_Emily-M-OSL
C11379_Emily-O-OSL
C11380_Emily-O-90-OSL

C11377_Emily-SS-N119
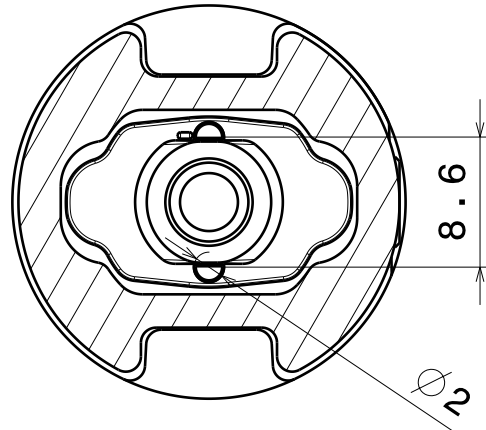C11378_Emily-M-N119
C11379_Emily-O-N119
C11380_Emily-O-90-N119

With tape:
CA11387_Emily-SS-XP-G
CA11388_Emily-M-XP-G
CA11389_Emily-O-XP-G
CA11390_Emily-O-90-XP-G

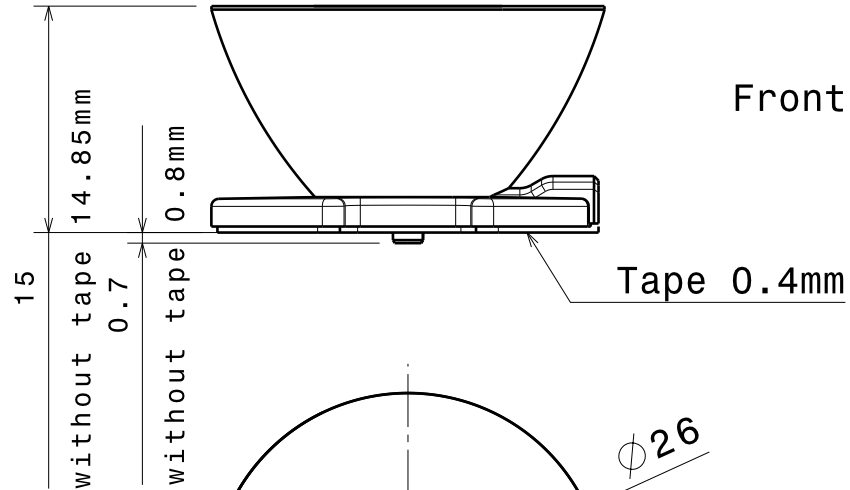CA11387_Emily-SS-XP
CA11388_Emily-M-XP
CA11389_Emily-O-XP
CA11390_Emily-O-90-XP

CA11387_Emily-SS-OSL
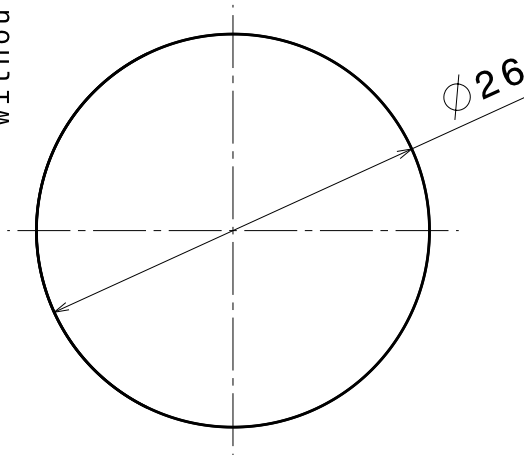CA11388_Emily-M-OSL
CA11389_Emily-O-OSL
CA11390_Emily-O-90-OSL

CA11387_Emily-SS-N119
CA11388_Emily-M-N119
CA11389_Emily-O-N119
CA11390_Emily-O-90-N119

Bottom view

8.6

⌀2

Front view

14.85mm
without tape
0.7

0.8mm
without tape

15

Tape 0.4mm

⌀26

Top view

LEDIL

Ledil Oy
Tehdaskatu 13
FIN-24100 SALO
Finland

DRAWING TITLE
Datasheet Emily-Series Lens

DRAWN BY	DATE			
pv	09.03.2010			
CHECKED BY	DATE	SIZE	DRAWING NUMBER	REV
tk	18.02.2010	A4		1
DESIGNED BY	DATE	SCALE 2:1	WEIGHT(g)	SHEET 1/1
hh	18.02.2010			