PRODUCT DATASHEET
Rose series
last update 24/6/2013

Ordering number FA11909_CXM-RS

Family	Rose	FWHM	16 degrees
Type	Assembly	Efficiency	93 %
LED	XM-L2	cd/lm	-
Color	White	Gerber File	Available
Diameter	21.6 + 21.6 mm		
Height	12.9 mm		
Style	Square		
Optic Material	PC		
Holder Material	PC		
Fastening	Tape		
Status	On production		

Ordering number FA11908_CXM-SS

Family	Rose	FWHM	20,5 degrees
Type	Assembly	Efficiency	85 %
LED	XM-L2	cd/lm	-
Color	White	Gerber File	Available
Diameter	21.6 + 21.6 mm		
Height	12.9 mm		
Style	Square		
Optic Material	PC		
Holder Material	PC		
Fastening	Tape		
Status	On production		

Ordering number FA11910_CXM-D

Family	Rose	FWHM	21 degrees
Type	Assembly	Efficiency	84 %
LED	XM-L2	cd/lm	-
Color	White	Gerber File	Available
Diameter	21.6 + 21.6 mm		
Height	12.9 mm		
Style	Square		
Optic Material	PC		
Holder Material	PC		
Fastening	Tape		
Status	On production		

Ordering number FA11911_CXM-M

Family	Rose	FWHM	32 degrees
Type	Assembly	Efficiency	82 %
LED	XM-L2	cd/lm	-
Color	White	Gerber File	Available
Diameter	21.6 + 21.6 mm		
Height	12.9 mm		
Style	Square		
Optic Material	PC		
Holder Material	PC		
Fastening	Tape		
Status	On production		

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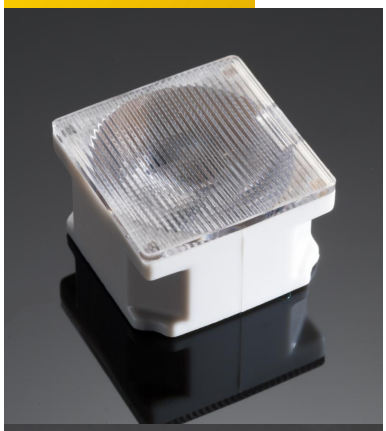
PRODUCT DATASHEET
Rose series
last update 24/6/2013



Ordering number FA11912_CXM-O

Family	Rose	FWHM	42+21 degrees
Type	Assembly	Efficiency	82 %
LED	XM-L2	cd/lm	-
Color	White	Gerber File	Available
Diameter	21.6 + 21.6 mm		
Height	12.9 mm		
Style	Square		
Optic Material	PC		
Holder Material	PC		
Fastening	Tape		
Status	On production		

Ordering number FA12620_CXM-W

Family	Rose	FWHM	54 degrees
Type	Assembly	Efficiency	84 %
LED	XM-L2	cd/lm	-
Color	White	Gerber File	Available
Diameter	21.6 + 21.6 mm		
Height	12.9 mm		
Style	Square		
Optic Material	PC		
Holder Material	PC		
Fastening	Tape		
Status	On production		

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.

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GENERAL INFORMATION

- Product series especially designed & optimized for XM-L2 series of LEDs.
- Special care taken to make light distribution as uniform as possible.
- Lens material optical grade PC with high UV and temperature resistance (120 degrees of Celcius / 248 degrees of Fahrenheit). Allows use of high current and temperature conditions.

Please find more information about used materials from below:
http://ledil.fi/sites/default/files/Documents/Technical/Material/PC%20Makrolon%202400_2407_2456_2458-UL.pdf
- Optic holder molded by high quality PC material (120 dergees of Celcius / 248 degrees of Fahrenheit).

- 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.

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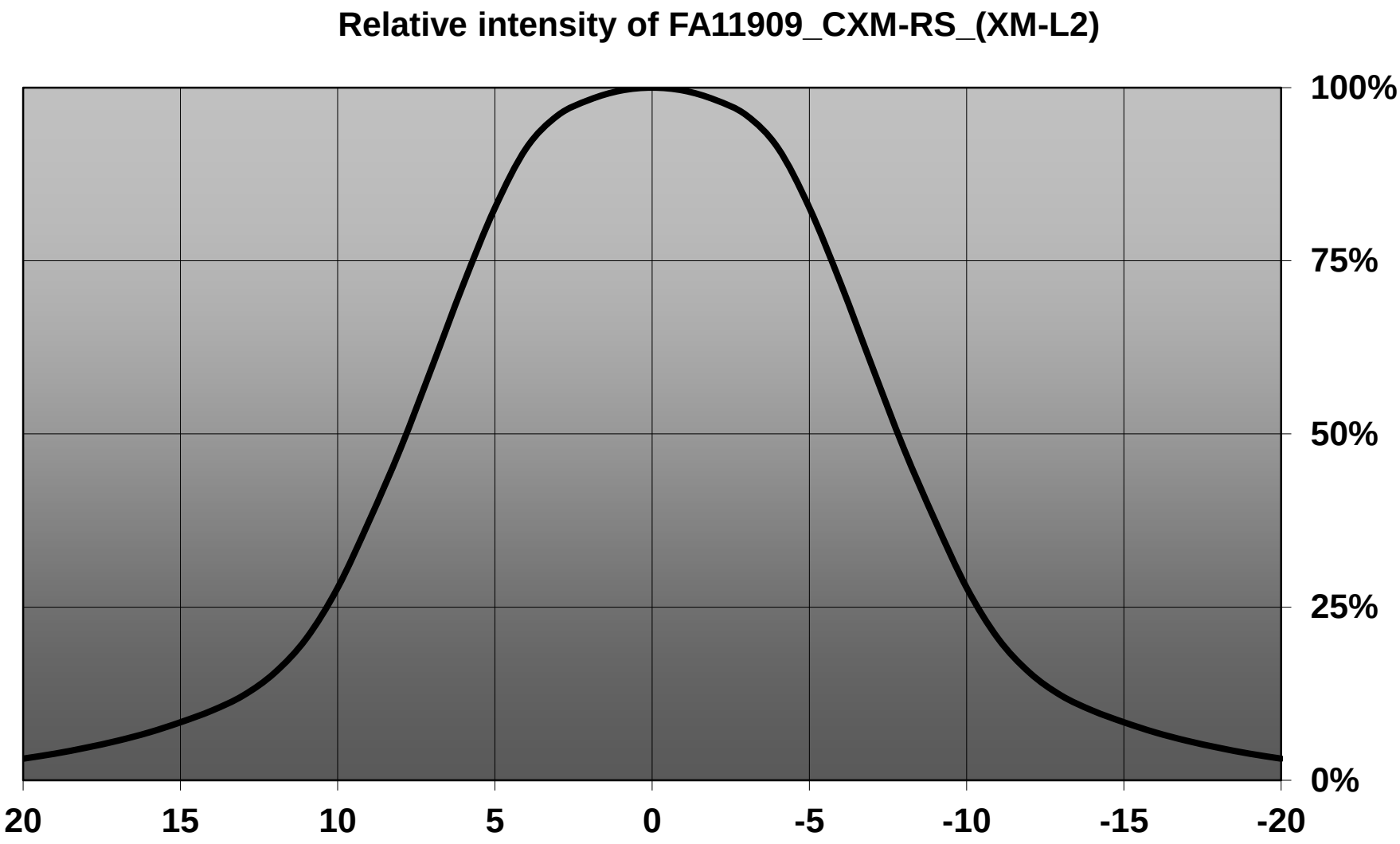
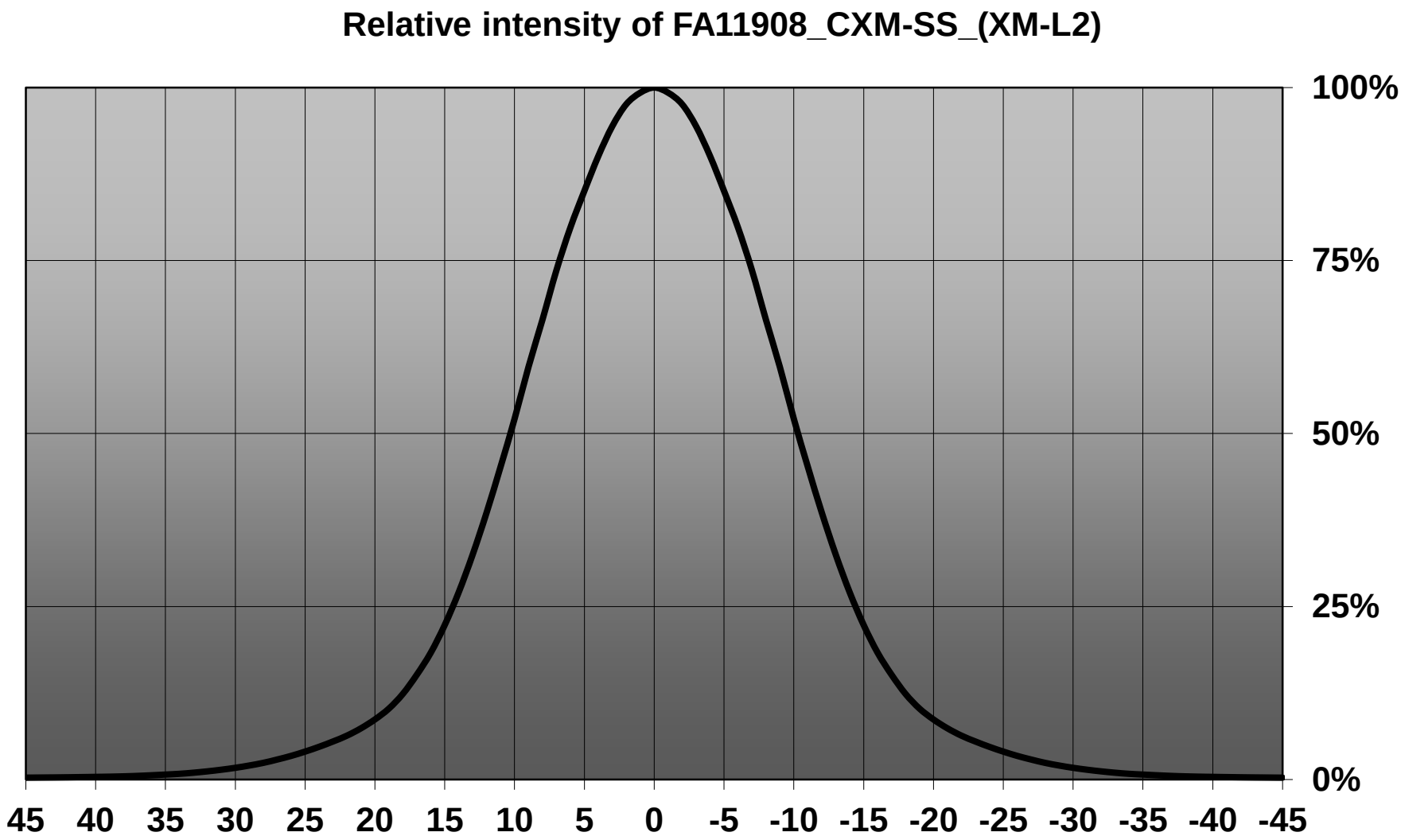
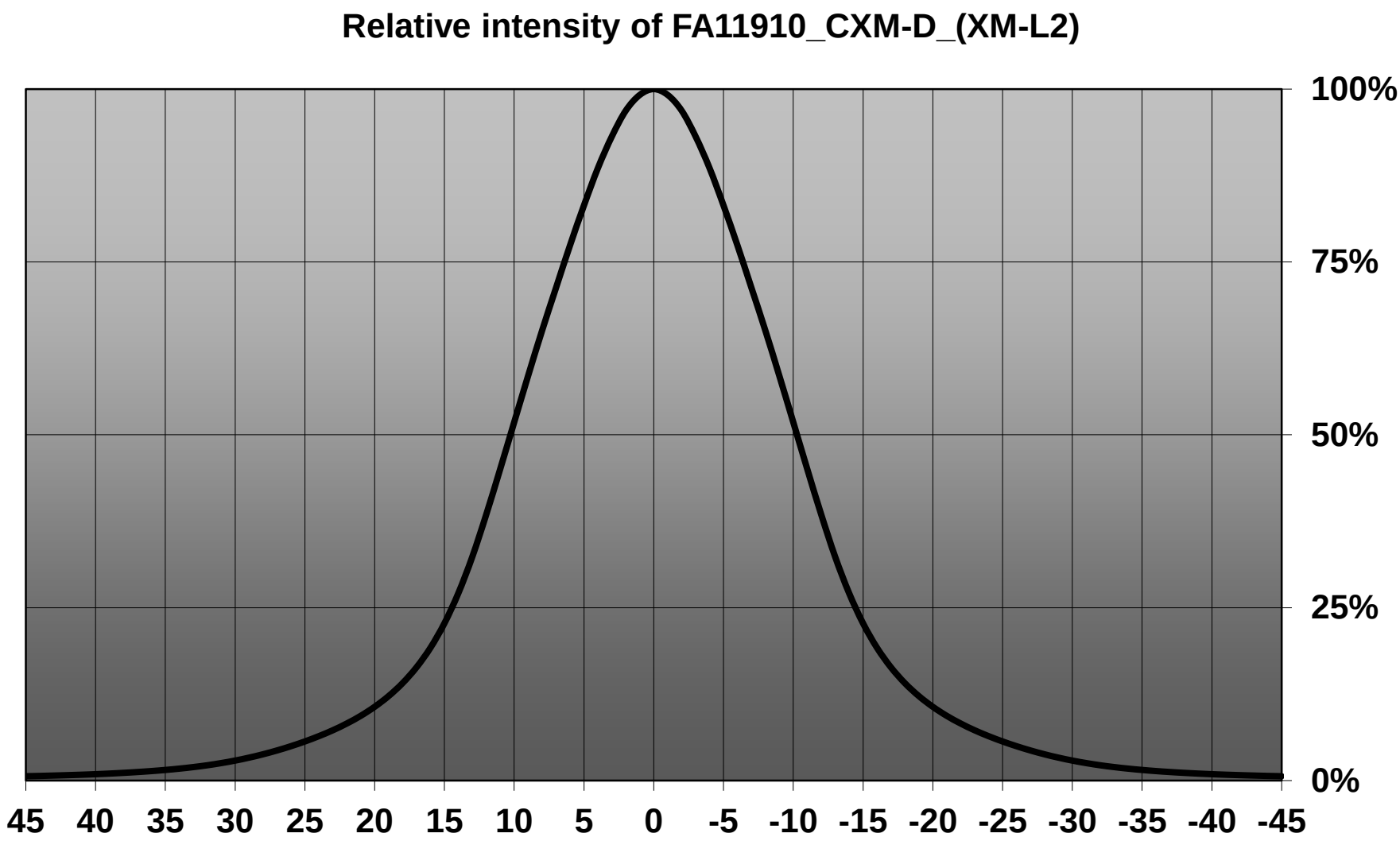
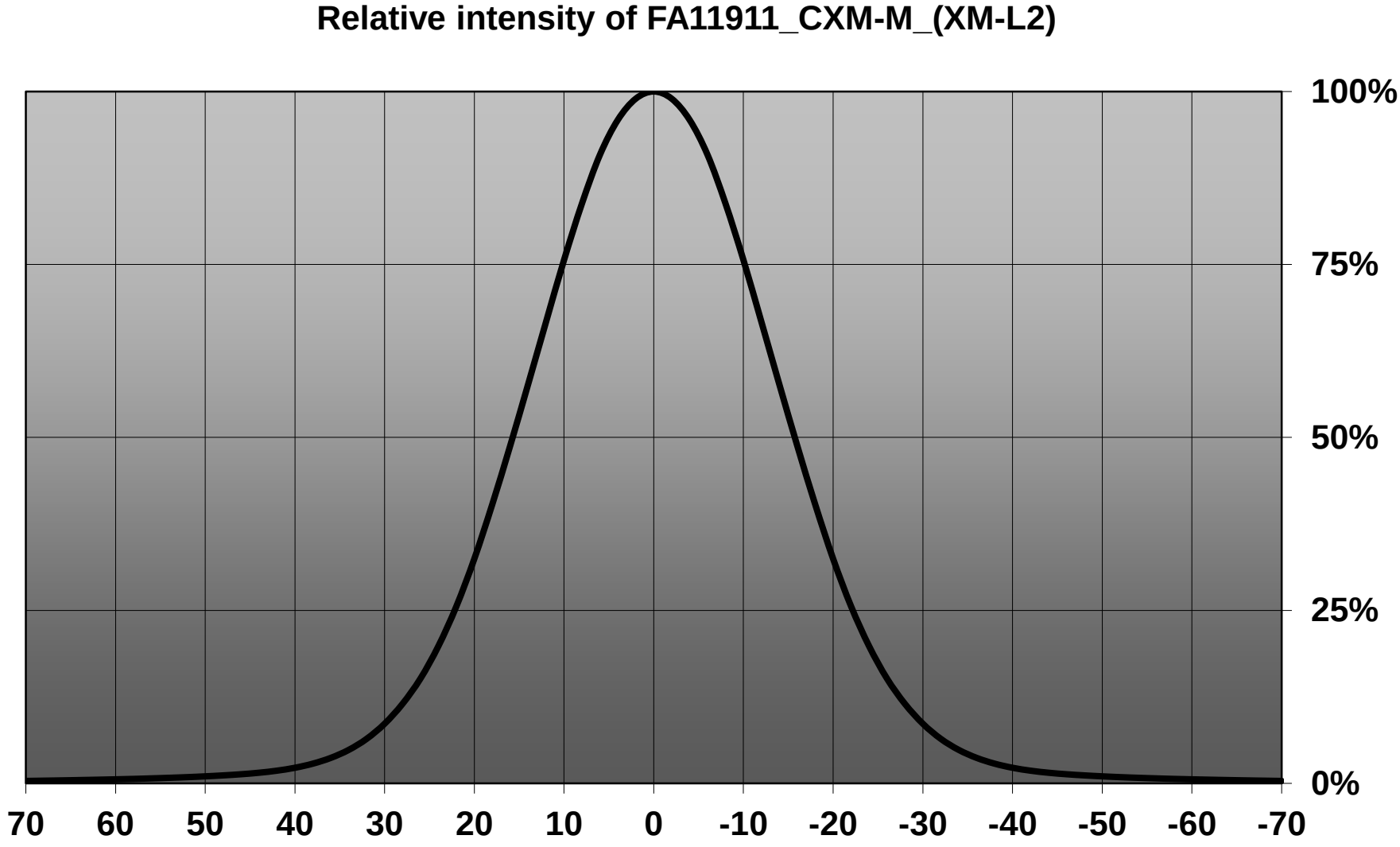
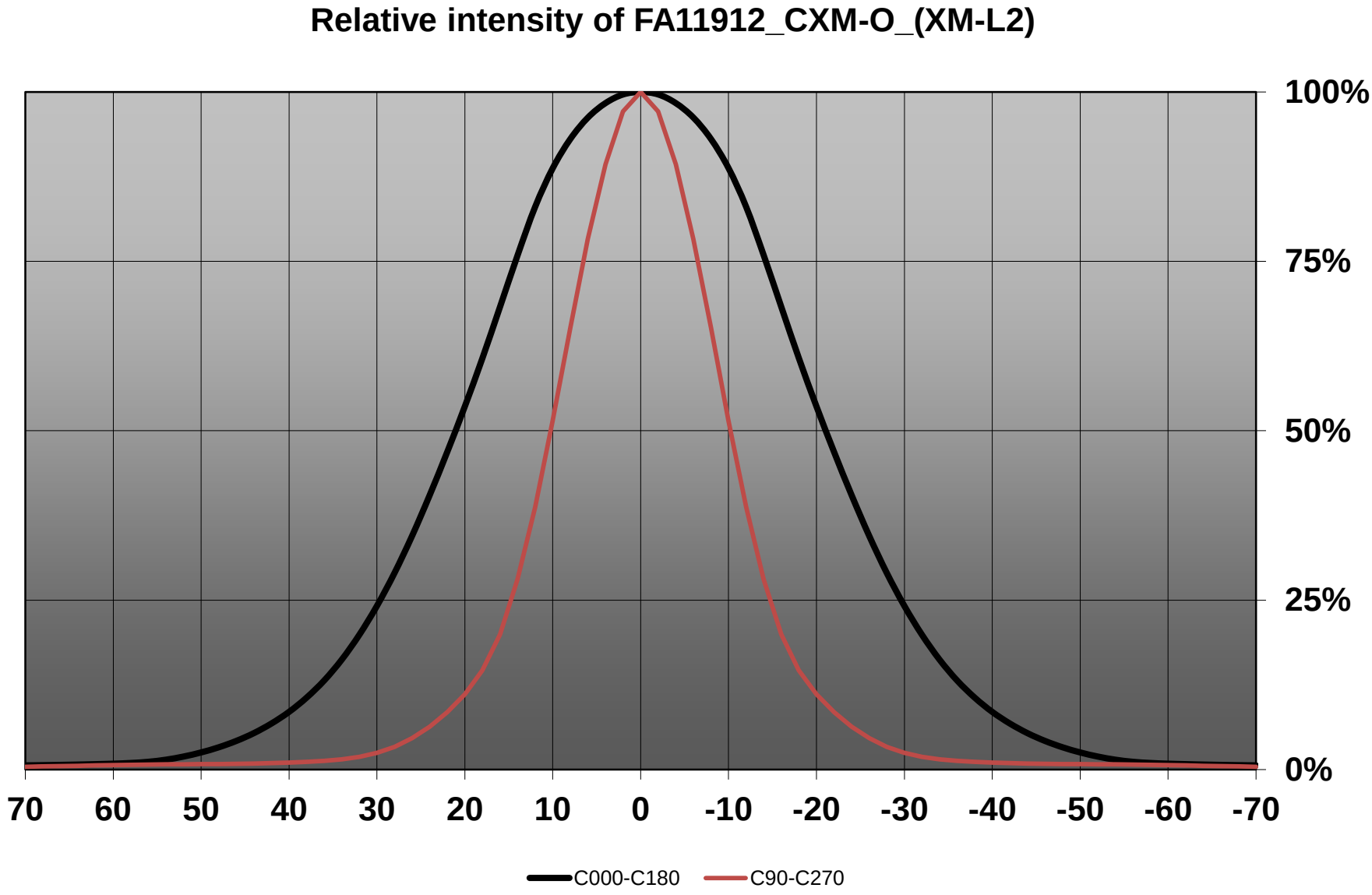
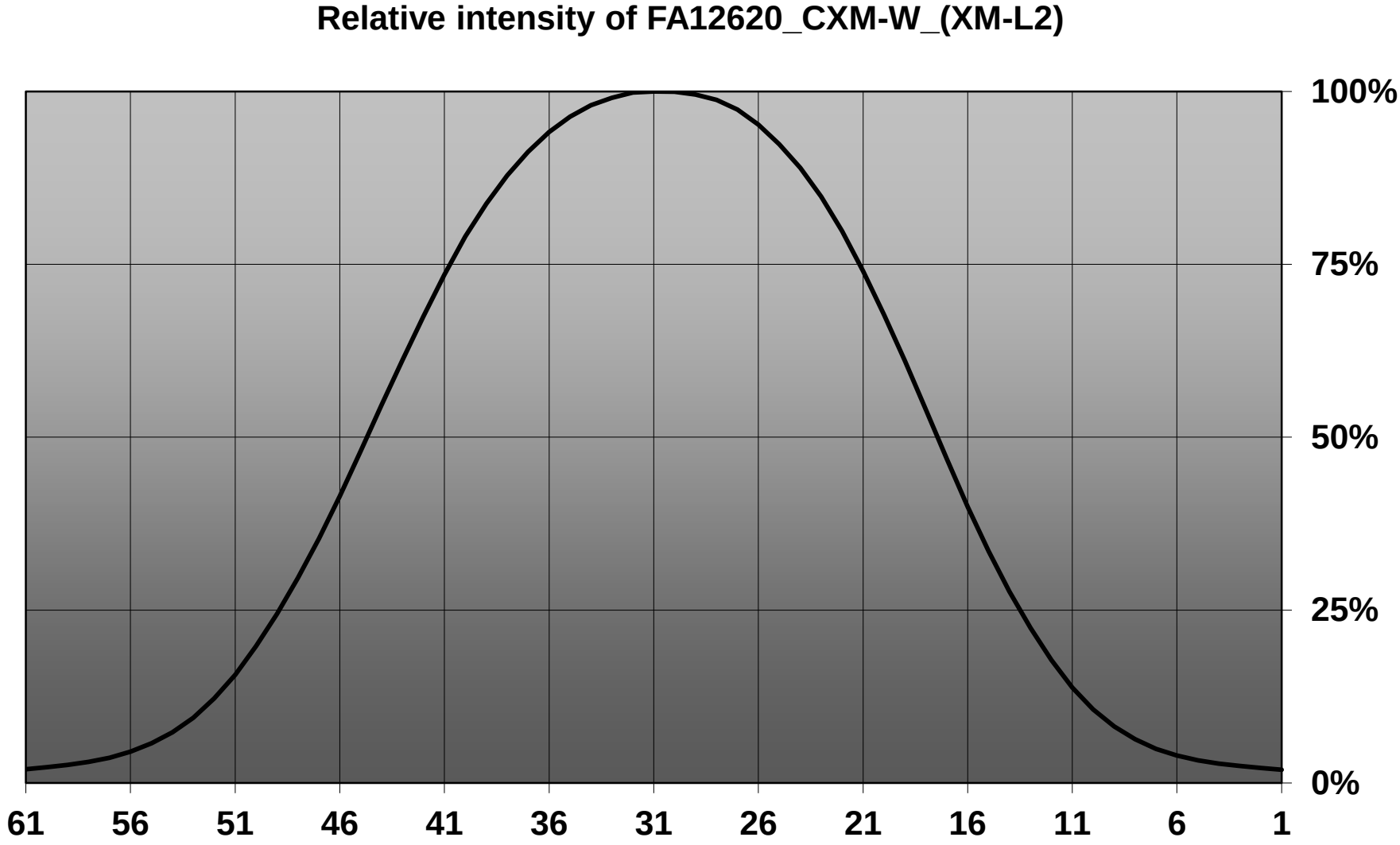

Relative intensity of FA11909_CXM-RS_(XM-L2)
100%
75%
50%
25%
0%
20
15
10
5
0
-5
-10
-15
-20

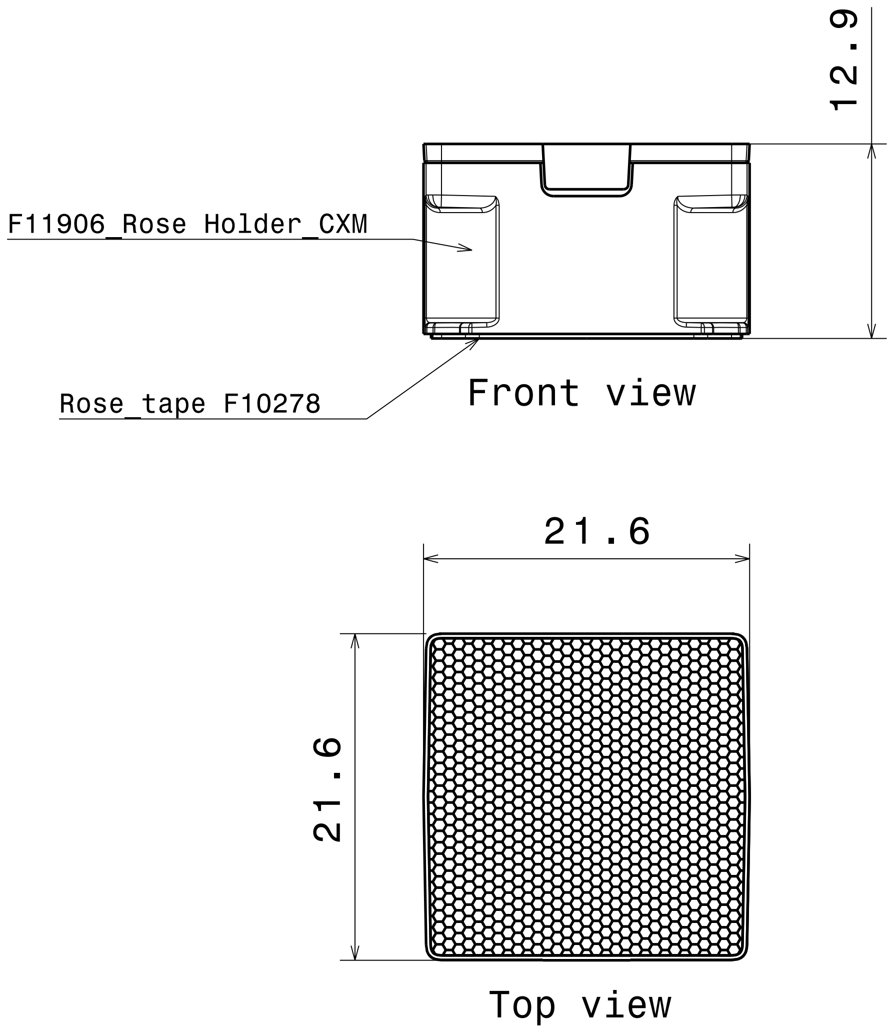

Relative intensity of FA11908_CXM-SS_(XM-L2)
100%
75%
50%
25%
0%
45 40 35 30 25 20 15 10 5 0 -5 -10 -15 -20 -25 -30 -35 -40 -45


Relative intensity of FA11910_CXM-D_(XM-L2)
100%
75%
50%
25%
0%
45 40 35 30 25 20 15 10 5 0 -5 -10 -15 -20 -25 -30 -35 -40 -45


Relative intensity of FA11911_CXM-M_(XM-L2)
100%
75%
50%
25%
0%
70
60
50
40
30
20
10
0
-10
-20
-30
-40
-50
-60
-70


Relative intensity of FA11912_CXM-O_(XM-L2)
100%
75%
50%
25%
0%
70
60
50
40
30
20
10
0
-10
-20
-30
-40
-50
-60
-70
C000-C180
C90-C270


Relative intensity of FA12620_CXM-W_(XM-L2)
100%
75%
50%
25%
0%
61
56
51
46
41
36
31
26
21
16
11
6
1



MATERIALS
Lens: PMMA
Holder: PC, white

LEDiL

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DESIGNED BY: hh	DATE: 30.12.2010	SCALE: 2:1	WEIGHT(g): -	SHEET: 1/1