PRODUCT DATASHEET
Lena series
last update 8/11/2012

LEDiL

Ordering number   CN13159_LENA-WAS

Family	Lena	FWHM	Asym degrees
Type	Pack	Efficiency	79 %
LED	CXA2011	cd/lm	1.000
Color	Metal	Gerber File	Available
Diameter	111 mm		
Height	49.6 mm		
Style	Round		Reflector twist-and-locks into included base part that holds COB
Optic Material	PC		
Holder Material	-		
Fastening	Screw, socket		
Status	Ready		

Ordering number   CN13169_LENA-WAS-DL

Family	Lena	FWHM	Asym degrees
Type	Pack	Efficiency	75 %
LED	CXA2011	cd/lm	0.900
Color	Metal	Gerber File	Available
Diameter	111 mm		
Height	41.7 mm		
Style	Round		Reflector twist-and-locks into included base part that holds COB
Optic Material	PC		
Holder Material	-		
Fastening	Screw, socket		
Status	Ready		

Ordering number   CN13455_LENA-X-WAS

Family	Lena	FWHM	Asym degrees
Type	Pack	Efficiency	83 %
LED	CXA2011	cd/lm	0.500
Color	White	Gerber File	Available
Diameter	111 mm		
Height	38.2 mm		
Style	Round		Reflector twist-and-locks into included base part that holds COB
Optic Material	PC		
Holder Material	PC		
Fastening	Screw, socket		
Status	Ready		

Ordering number   CN13456_LENA-X-WAS-DL

Family	Lena	FWHM	Asym degrees
Type	Pack	Efficiency	80 %
LED	CXA2011	cd/lm	0.500
Color	White	Gerber File	Available
Diameter	111 mm		
Height	40.3 mm		
Style	Round		Reflector twist-and-locks into included base part that holds COB
Optic Material	PC		
Holder Material	PC		
Fastening	Screw, socket		
Status	Ready		

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Ordering number   **CN12107_LENA-S-DL**

Family	Lena	FWHM	11 degrees
Type	Pack	Efficiency	80 %
LED	CXA2011	cd/lm	-
Color	Metal	Gerber File	Available
Diameter	111 mm		
Height	88.6 mm		
Style	Round		
Optic Material	PC		
Holder Material	PC		
Fastening	Screw		
Status	Ready		

Ordering number   **CN12167_LENA-M-DL**

Family	Lena	FWHM	19 degrees
Type	Pack	Efficiency	78 %
LED	CXA2011	cd/lm	4.100
Color	Metal	Gerber File	Available
Diameter	111 mm		
Height	88.6 mm		
Style	Round		
Optic Material	PC		
Holder Material	PC		
Fastening	Screw		
Status	Ready		

Ordering number   **CN12109_LENA-W-DL**

Family	Lena	FWHM	42 degrees
Type	Pack	Efficiency	75 %
LED	CXA2011	cd/lm	-
Color	Metal	Gerber File	Available
Diameter	111 mm		
Height	88.6 mm		
Style	Round		
Optic Material	PC		
Holder Material	PC		
Fastening	Screw		
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.

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GENERAL INFORMATION

- Product series especially designed & optimized for CXA2011 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
- Reflector is made of aluminium coated PC (120 degrees of Celcius / 248 degrees of Fahrenheit) with protective lacquer (110 degrees of Celcius / 230 degrees of Fahrenheit).
- Optic holder molded by high quality PC material (120 dergees of Celcius / 248 degrees of Fahrenheit).

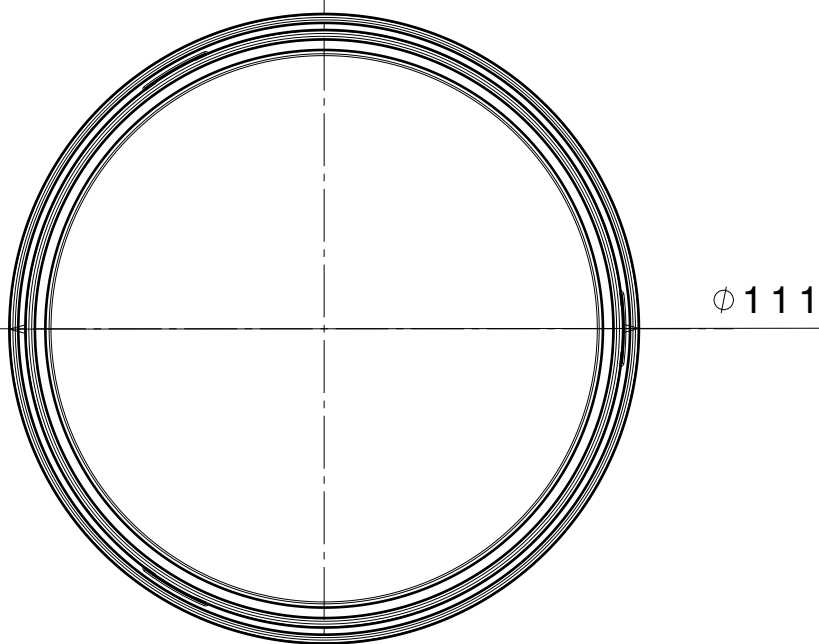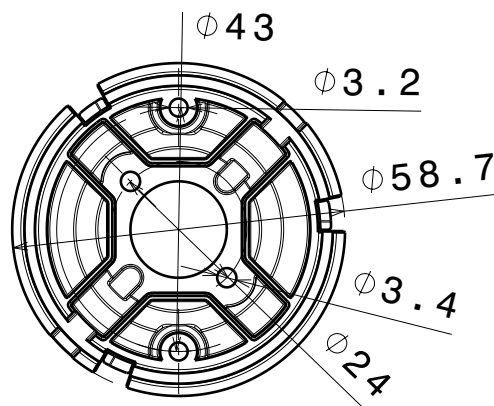# Relative intensity of CA12109_Lena-W-Diffuser-Lens_CXA20

D C B A

2.1

39.6
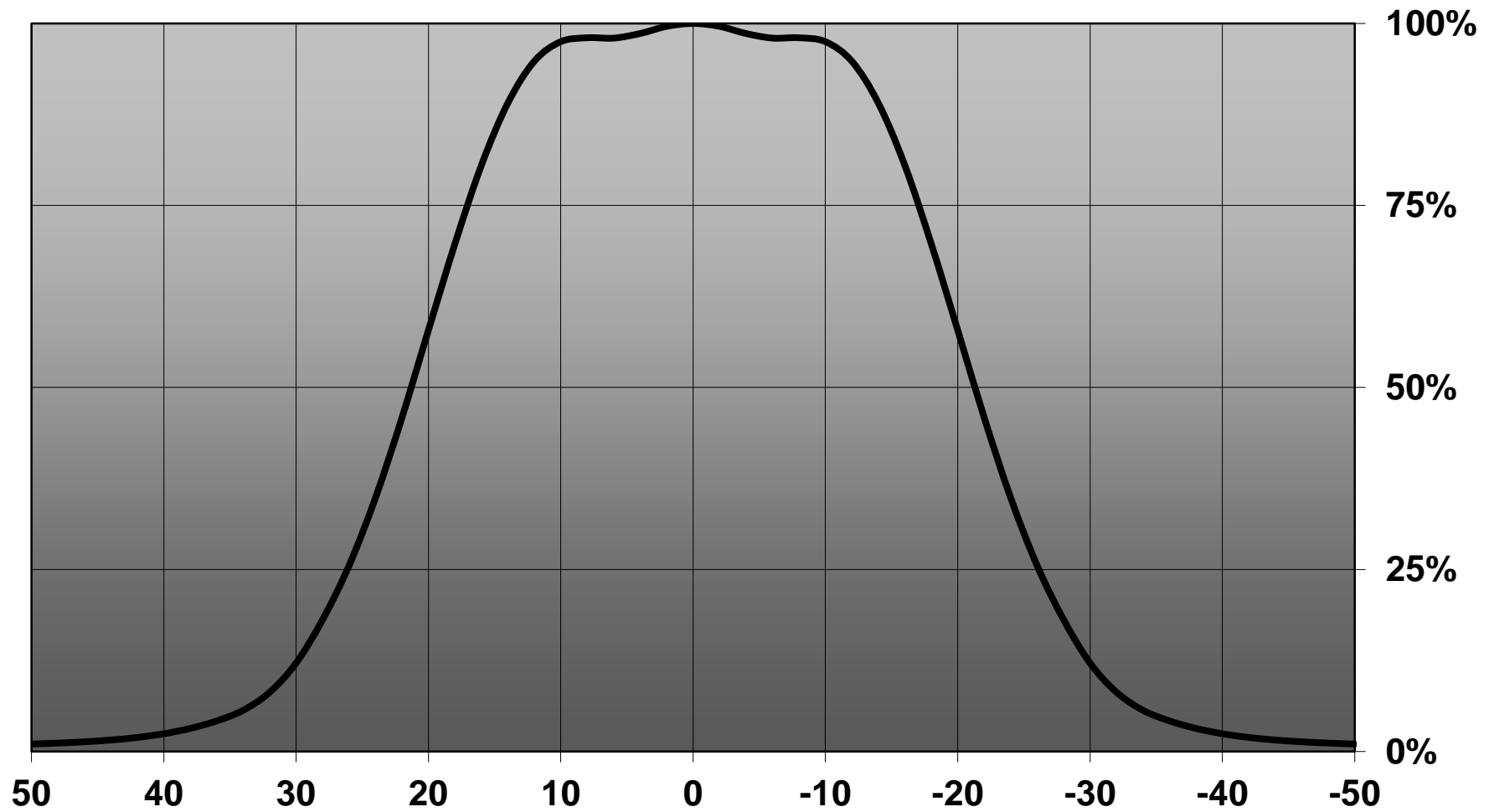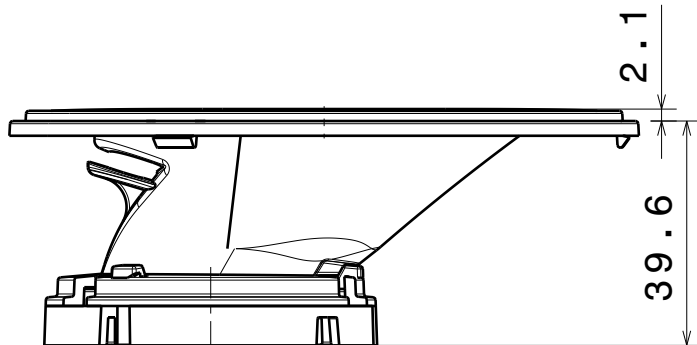
Front view

Isometric view

⌀111

Top view

⌀43
⌀3.2
⌀58.7
⌀3.4
⌀24
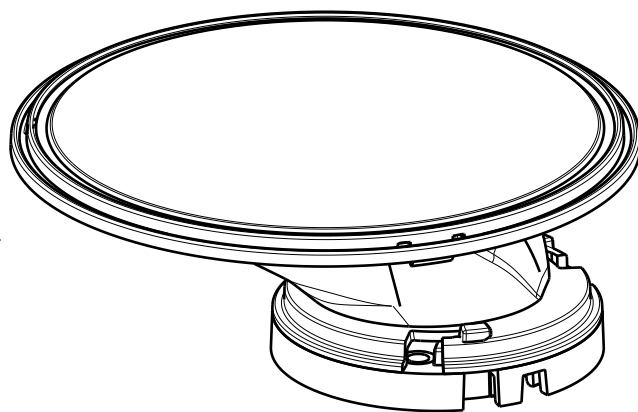
Materials

Reflector: PC
Base part: PC
Sublens: PC

Note: Using additional sublens add
    2,1mm to total height.

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DRAWING TITLE		Mechanical drawing

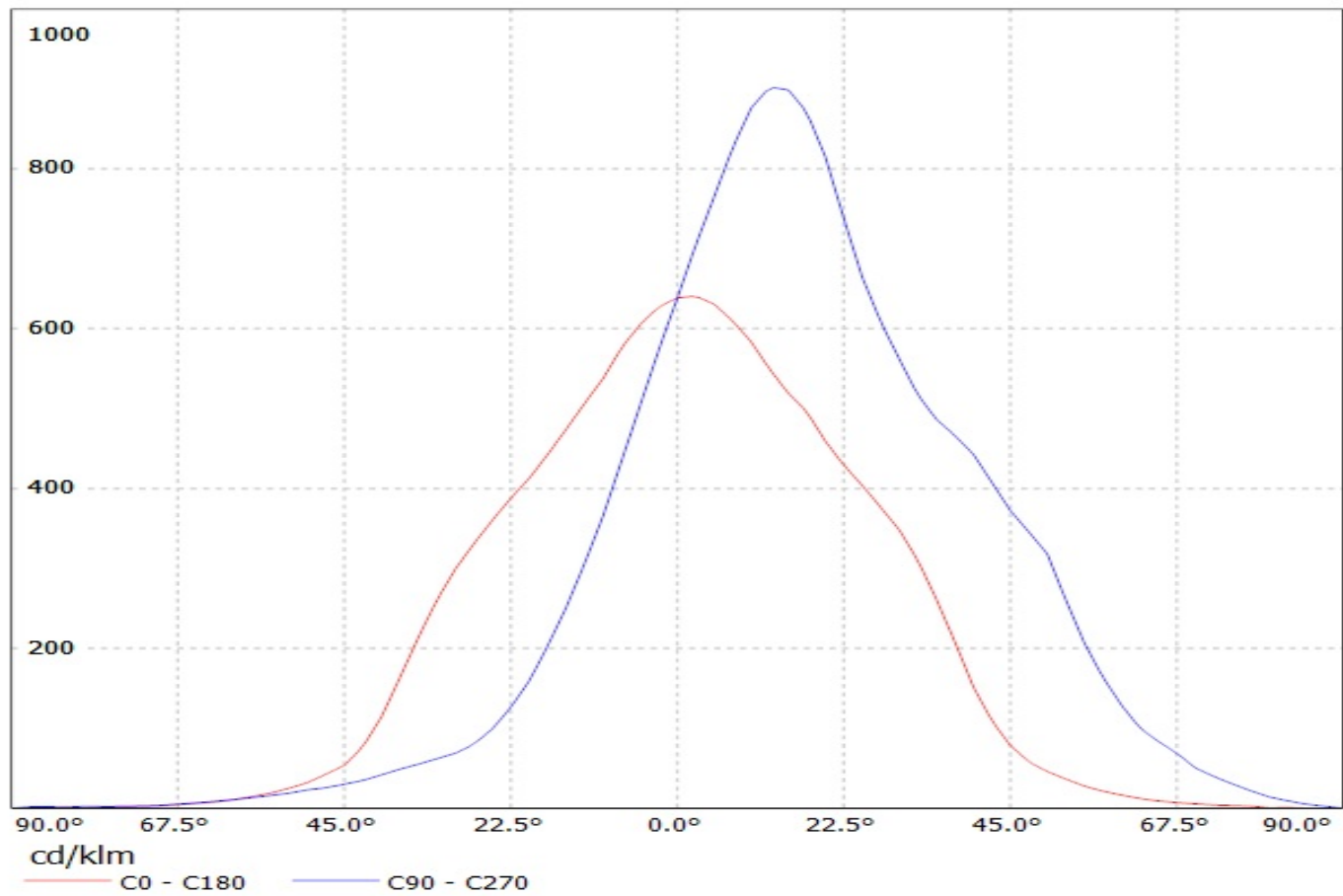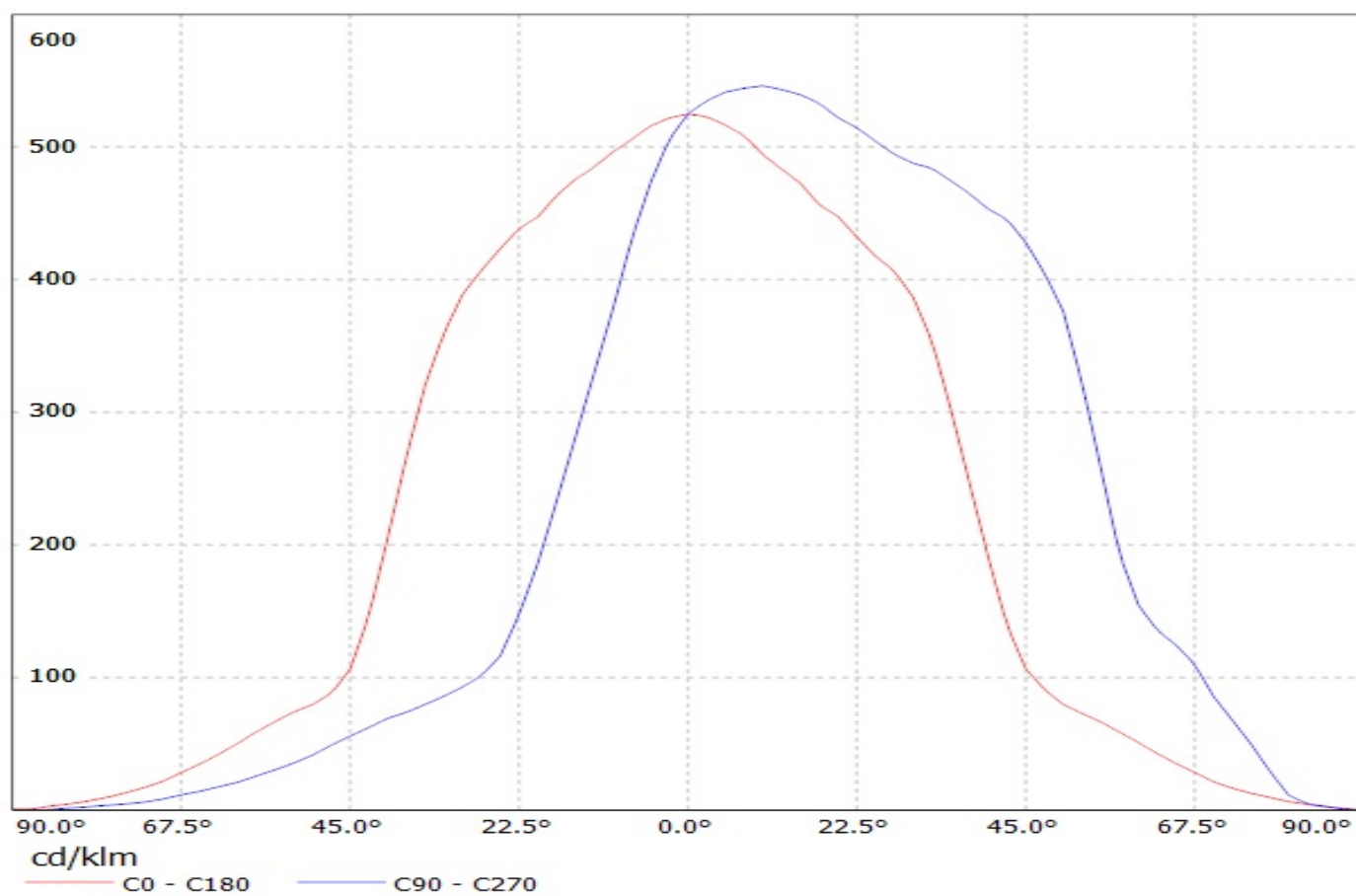| DRAWN BY	DATE			
-	26.9.2012			LENA-WAS
CHECKED BY	DATE	SIZE	PART NUMBER	REV
-	-	A4		001
DESIGNED BY	DATE			
-	-	SCALE 1:4	WEIGHT 0,00 mg	SHEET 1/1

Luminaire: Ledil Oy CN13159_LENA-WAS (Cree CXA20 698lm @ 250mA) Efficiency=79%
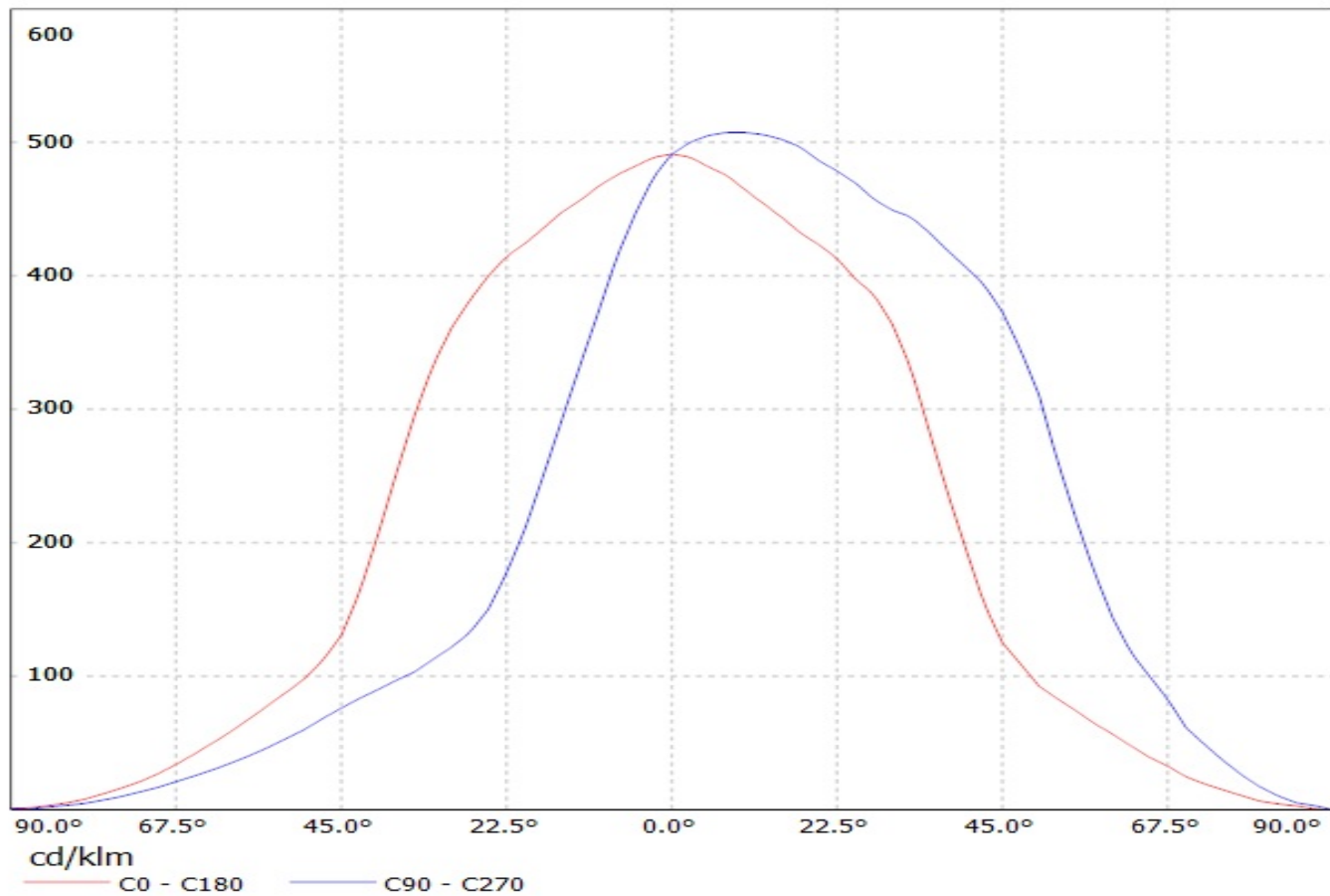Lamps: 1 x Cree CXA20 698lm @ 250mA

cd/klm

——— C0 - C180   ——— C90 - C270

Luminaire: Ledil Oy CN13169_LENA-WAS-DL (Cree CXA20 698lm @ 250mA) Efficiency=75%
Lamps: 1 x Cree CXA20 698lm @ 250mA

cd/klm

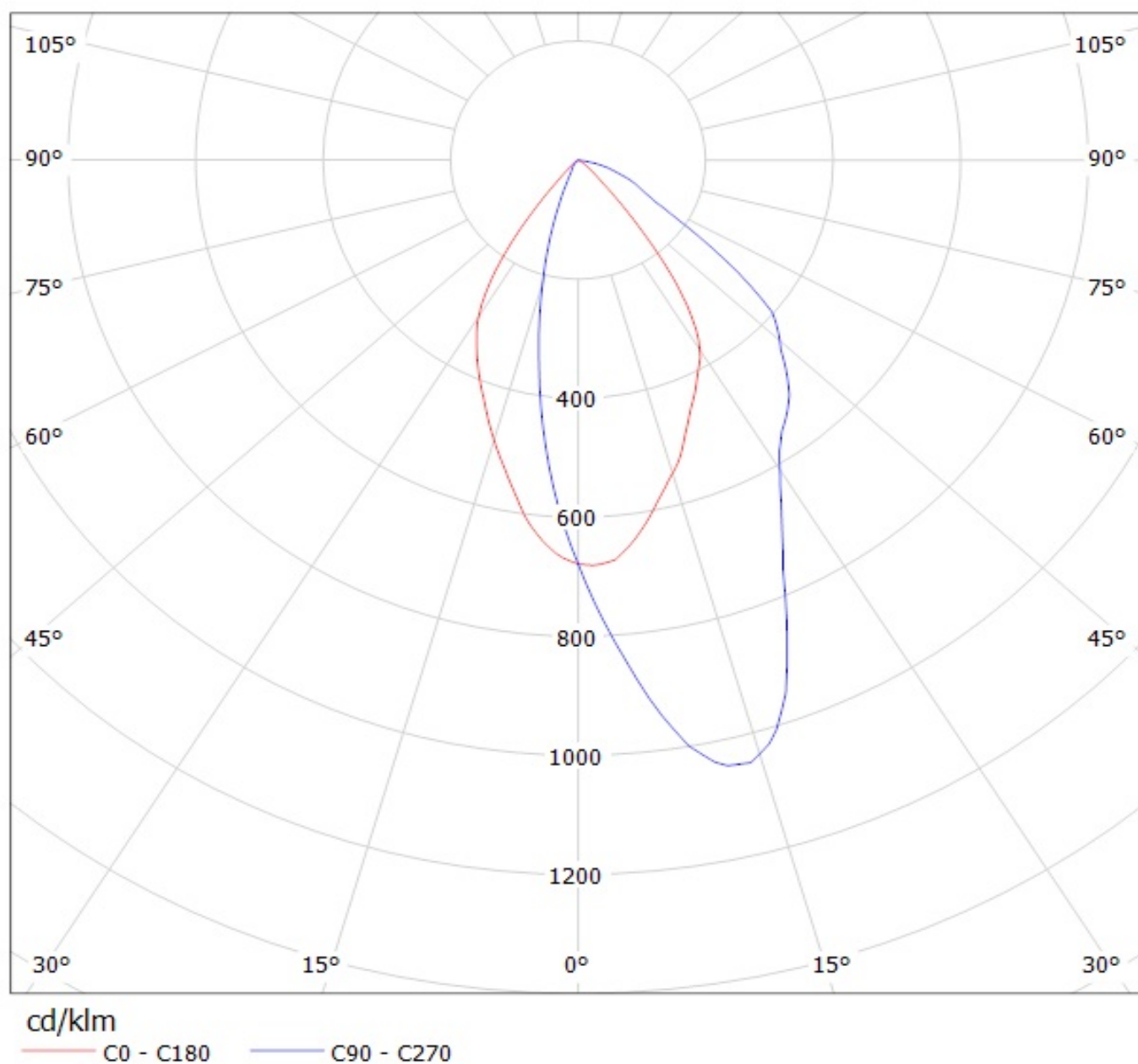— C0 - C180   — C90 - C270

Luminaire: Ledil Oy CN13455_LENA-X-WAS (Cree CXA20 698lm @ 250mA) Efficiency=83%
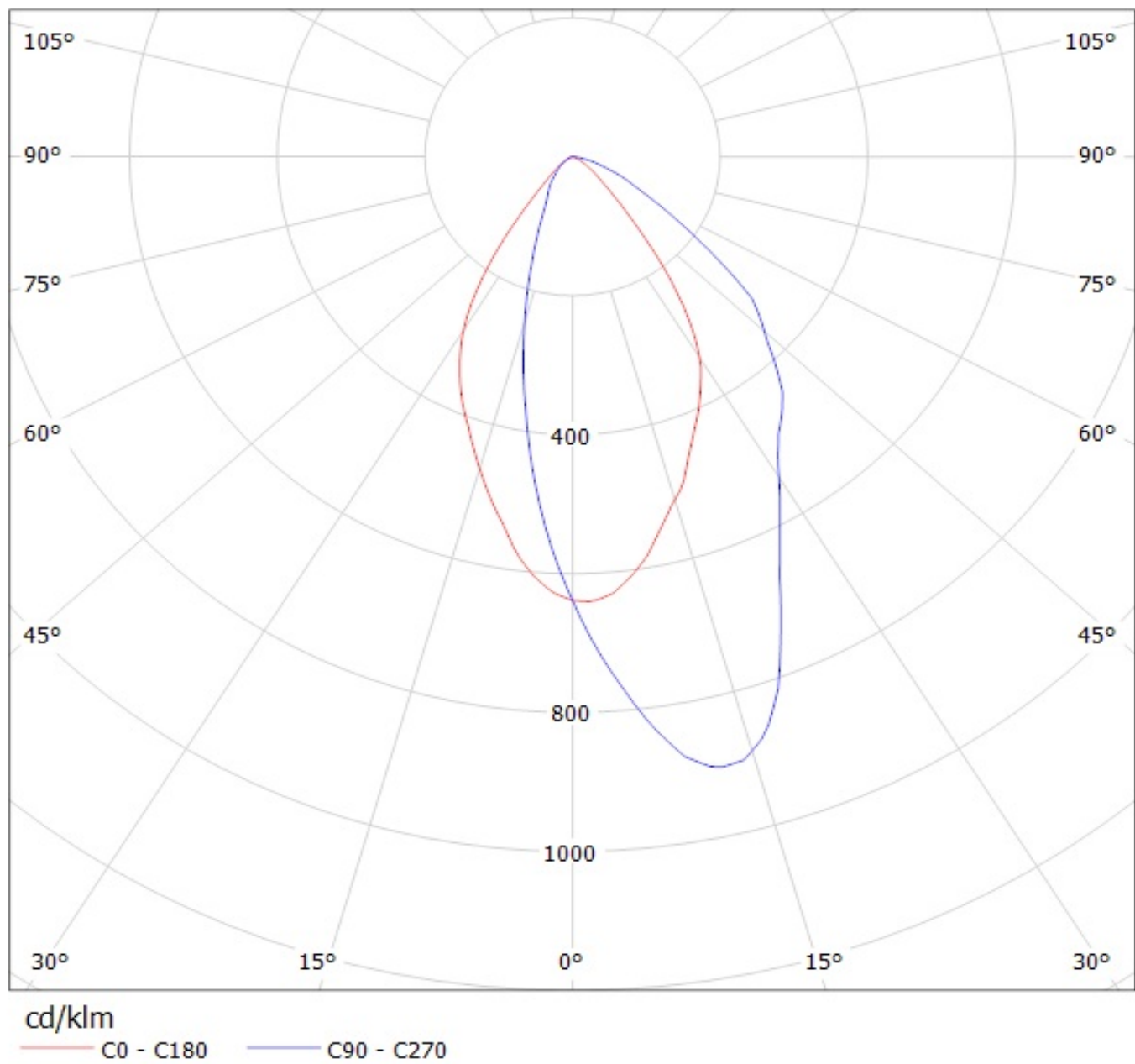Lamps: 1 x Cree CXA20 698lm @ 250mA

cd/klm

C0 - C180   C90 - C270

Luminaire: Ledil Oy CN13456_LENA-X-WAS-DL (Cree CXA20 698lm @ 250mA) Efficiency=80%
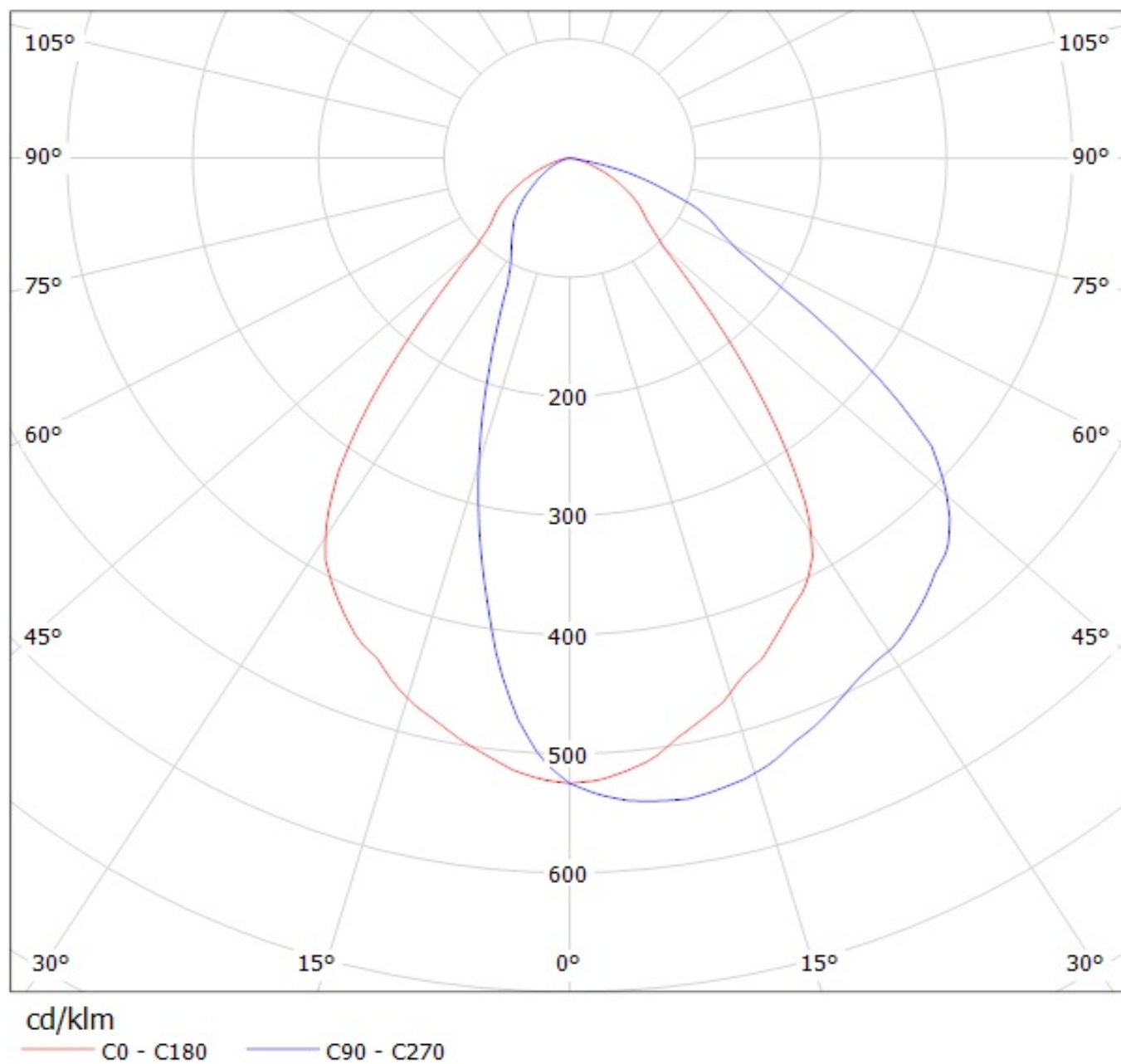Lamps: 1 x Cree CXA20 698lm @ 250mA

cd/klm

C0 - C180   C90 - C270

Luminaire: Ledil Oy CN13159_LENA-WAS (Cree CXA20 698lm @ 250mA) Efficiency=79%
Lamps: 1 x Cree CXA20 698lm @ 250mA

cd/klm
— C0 - C180   — C90 - C270

Luminaire: Ledil Oy CN13169_LENA-WAS-DL (Cree CXA20 698lm @ 250mA) Efficiency=75%
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| | C0 - C180 | | C90 - C270 |

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