

**Product number F13379_ANGELA-S**

Family	ANGELA	FWHM	(simulated) 10
Type	Reflector	Efficiency	(simulated) 92 %
LED	LUXEON CoB 1204/1205	cd/Im	(simulated) 20.700
Color	Metal	Gerber File	Available
Diameter	119.5 mm		
Height	74.27 mm		
Style	Round		
Optic Material	PC		
Holder Material	-		
Fastening	Socket		
Status	On production		

**Product number F13379_ANGELA-S**

Family	ANGELA	FWHM	8 degrees
Type	Reflector	Efficiency	94 %
LED	LUXEON CoB 1204/1205	cd/Im	19.940
Color	Metal	Gerber File	Available
Diameter	119.5 mm		
Height	74.27 mm		
Style	Round		
Optic Material	PC		
Holder Material	-		
Fastening	Socket		
Status	On production		

**Product number F13662_ANGELA-S-B**

Family	ANGELA	FWHM	9 degrees
Type	Reflector	Efficiency	93 %
LED	LUXEON CoB 1204/1205	cd/Im	19.200
Color	Metal	Gerber File	Available
Diameter	119.5 mm		
Height	74.5 mm		
Style	Round		
Optic Material	PC		
Holder Material	-		
Fastening	-		
Status	On production		

**Product number FC13991_ANGELA-RZ-S**

Family	ANGELA	FWHM	10 degrees
Type	RefPack	Efficiency	85 %
LED	LUXEON CoB 1204/1205	cd/Im	13.100
Color	Metal	Gerber File	Available
Diameter	119.5 mm		
Height	74.5 mm		
Style	Round		
Optic Material	PC		
Holder Material	-		
Fastening	Socket, screw		
Status	On production		

**Product number F13380_ANGELA-M**

Family	ANGELA	FWHM	15 degrees
Type	Reflector	Efficiency	85 %
LED	LUXEON CoB 1204/1205	cd/Im	3.930
Color	Metal	Gerber File	Available
Diameter	119.5 mm		
Height	74.5 mm		
Style	Round		
Optic Material	PC		
Holder Material	-		
Fastening	-		
Status	On production		

Product number F13663_ANGELA-M-B

Family	ANGELA	FWHM	16 degrees
Type	Reflector	Efficiency	82 %
LED	LUXEON CoB 1204/1205	cd/Im	3.840
Color	Metal	Gerber File	Available
Diameter	119.5 mm		
Height	74.5 mm		
Style	Round		
Optic Material	PC		
Holder Material	-		
Fastening	-		
Status	On production		

Product number F13381_ANGELA-W

Family	ANGELA	FWHM	33 degrees
Type	Reflector	Efficiency	84 %
LED	LUXEON CoB 1204/1205	cd/Im	1.680
Color	Metal	Gerber File	Available
Diameter	119.5 mm		
Height	74.5 mm		
Style	Round		
Optic Material	PC		
Holder Material	-		
Fastening	-		
Status	On production		

Product number F13664_ANGELA-W-B

Family	ANGELA	FWHM	33 degrees
Type	Reflector	Efficiency	83 %
LED	LUXEON CoB 1204/1205	cd/Im	1.660
Color	Metal	Gerber File	Available
Diameter	119.5 mm		
Height	74.5 mm		
Style	Round		
Optic Material	PC		
Holder Material	-		
Fastening	-		
Status	On production		

**Product number F13840_ANGELA-XW**

Family	ANGELA	FWHM	72 degrees
Type	Reflector	Efficiency	93 %
LED	LUXEON CoB 1204/1205	cd/Im	0.600
Color	White	Gerber File	Available
Diameter	119.5 mm		
Height	74.5 mm		
Style	Round		
Optic Material	HRPC		
Holder Material	-		
Fastening	-		
Status	On production		

Product number F13841_ANGELA-XW-B

Family	ANGELA	FWHM	73 degrees
Type	Reflector	Efficiency	94 %
LED	LUXEON CoB 1204/1205	cd/Im	0.640
Color	White	Gerber File	Available
Diameter	119.5 mm		
Height	74.5 mm		
Style	Round		
Optic Material	HRPC		
Holder Material	-		
Fastening	-		
Status	On production		

For BJB solderless connector

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

ANGELA series

last update 29/10/2015

GENERAL INFORMATION

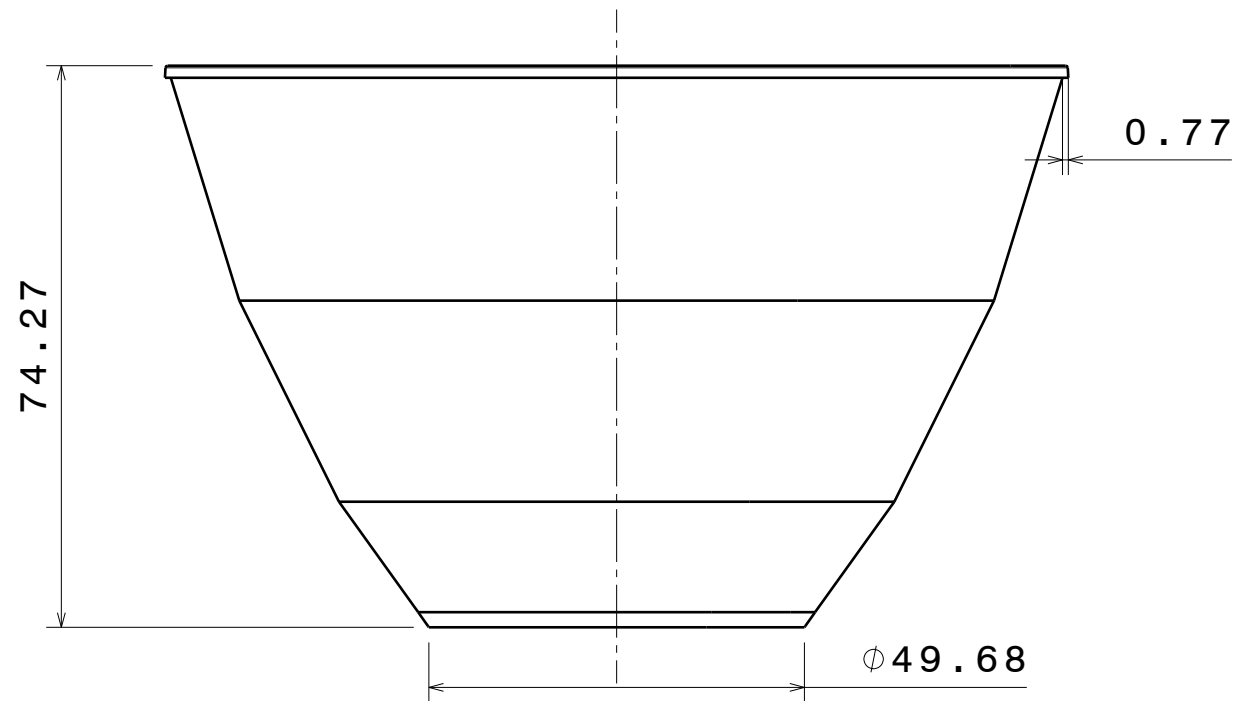
- Product series especially designed & optimized for LUXEON CoB 1204/1205 series of LEDs.
- Special care taken to make light distribution as uniform as possible.
- Lens material optical grade PC with high UV and temperature resistance (120 degrees of Celcius / 248 degrees of Fahrenheit). Allows use of high current and temperature conditions.

Please find more information about used materials from below:

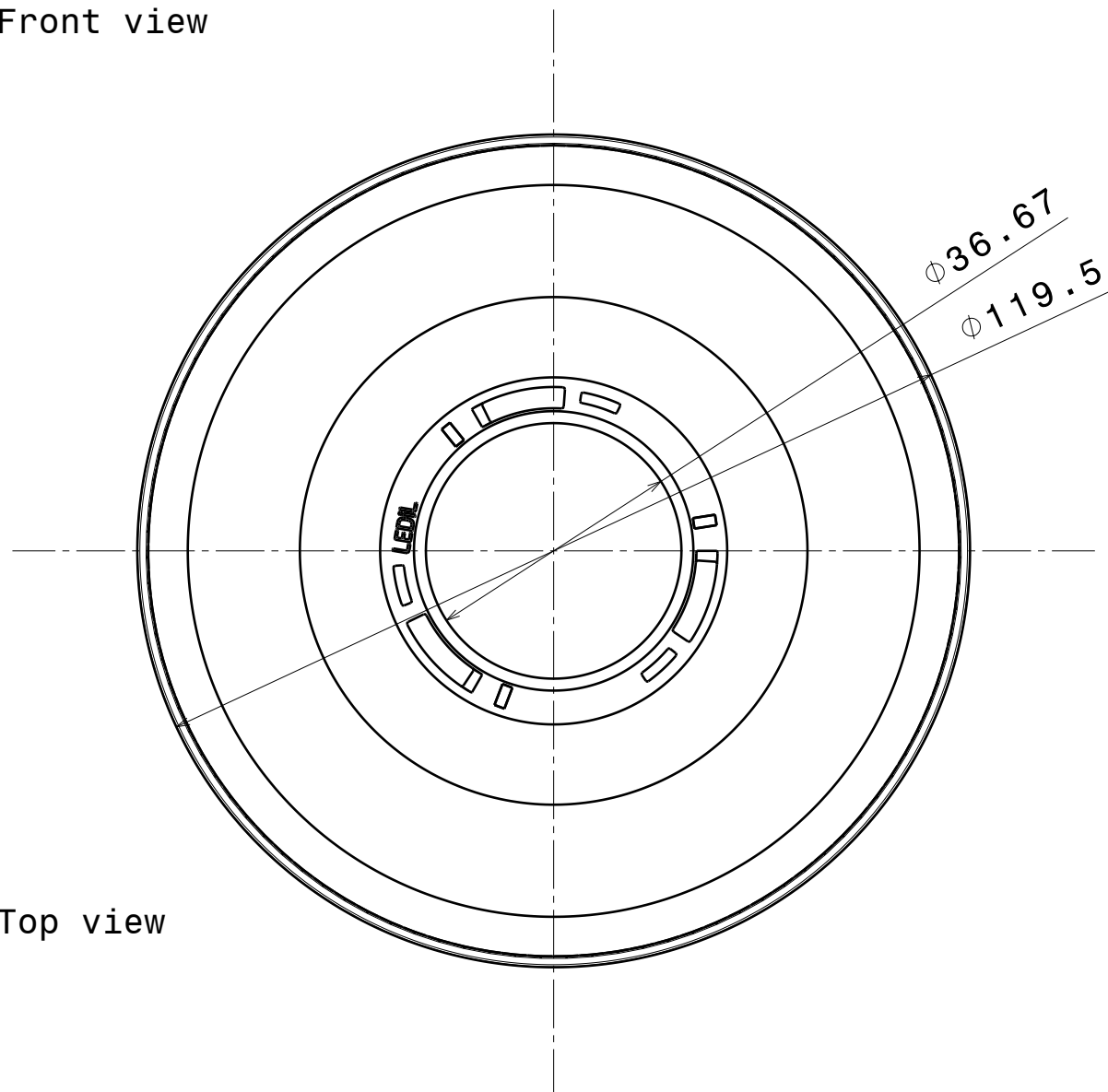
http://ledil.fi/sites/default/files/Documents/Technical/Material/PC%20Makrolon%202400_2407_2456_2458-UL.pdf

- Reflector is made of aluminium coated PC (120 degrees of Celcius / 248 degrees of Fahrenheit) with protective lacquer (short term 100 degrees of Celcius / 212 degrees of Fahrenheit).

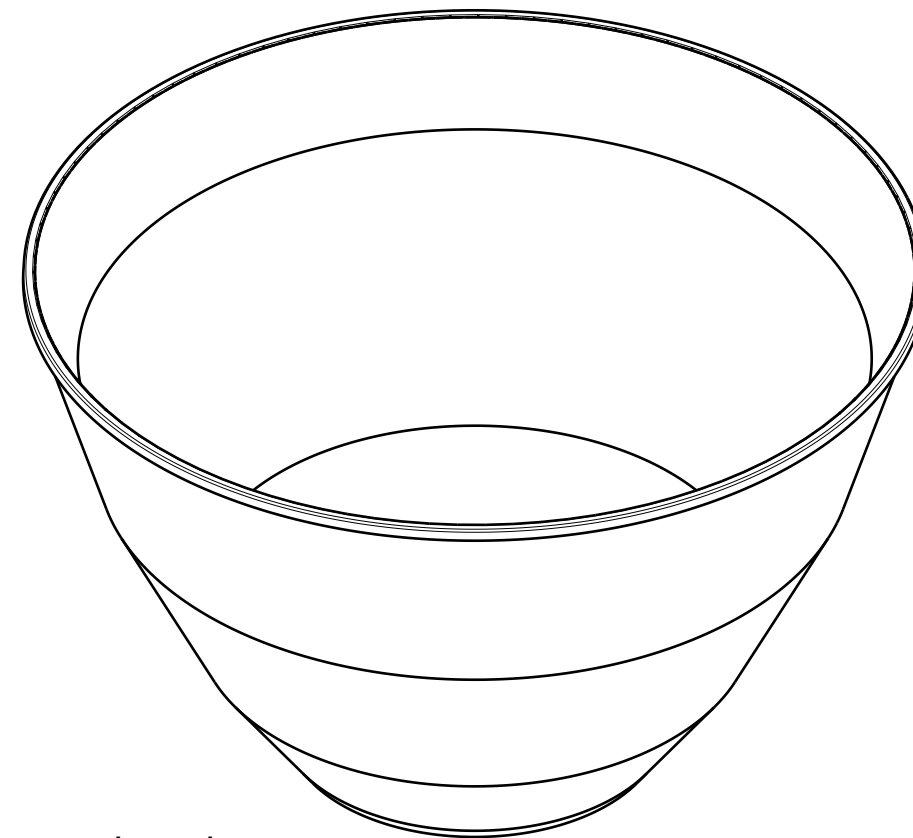
Note! Due to use of high power COB's with this product, special attention to proper thermal design is highly recommended. LEDiL has no liability for direct, indirect or consecutive damages arising from the LEDiL products being used outside of the recommended temperature range.



Front view

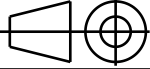


Top view

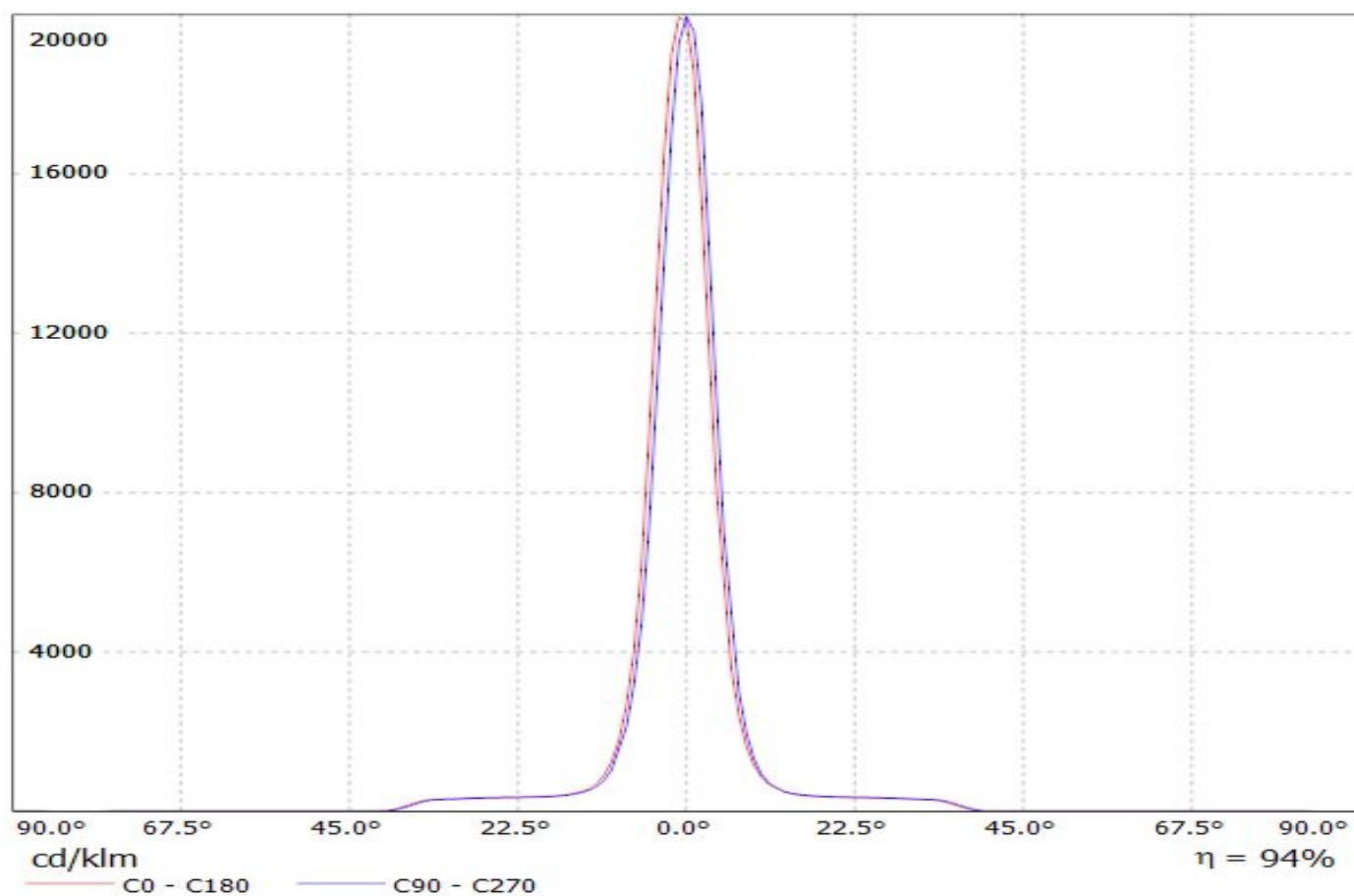


Isometric view

INDEX	PART NO	DESCRIPTION	MATERIAL	COLOUR
1	F13379	Angela-S	PC	metal

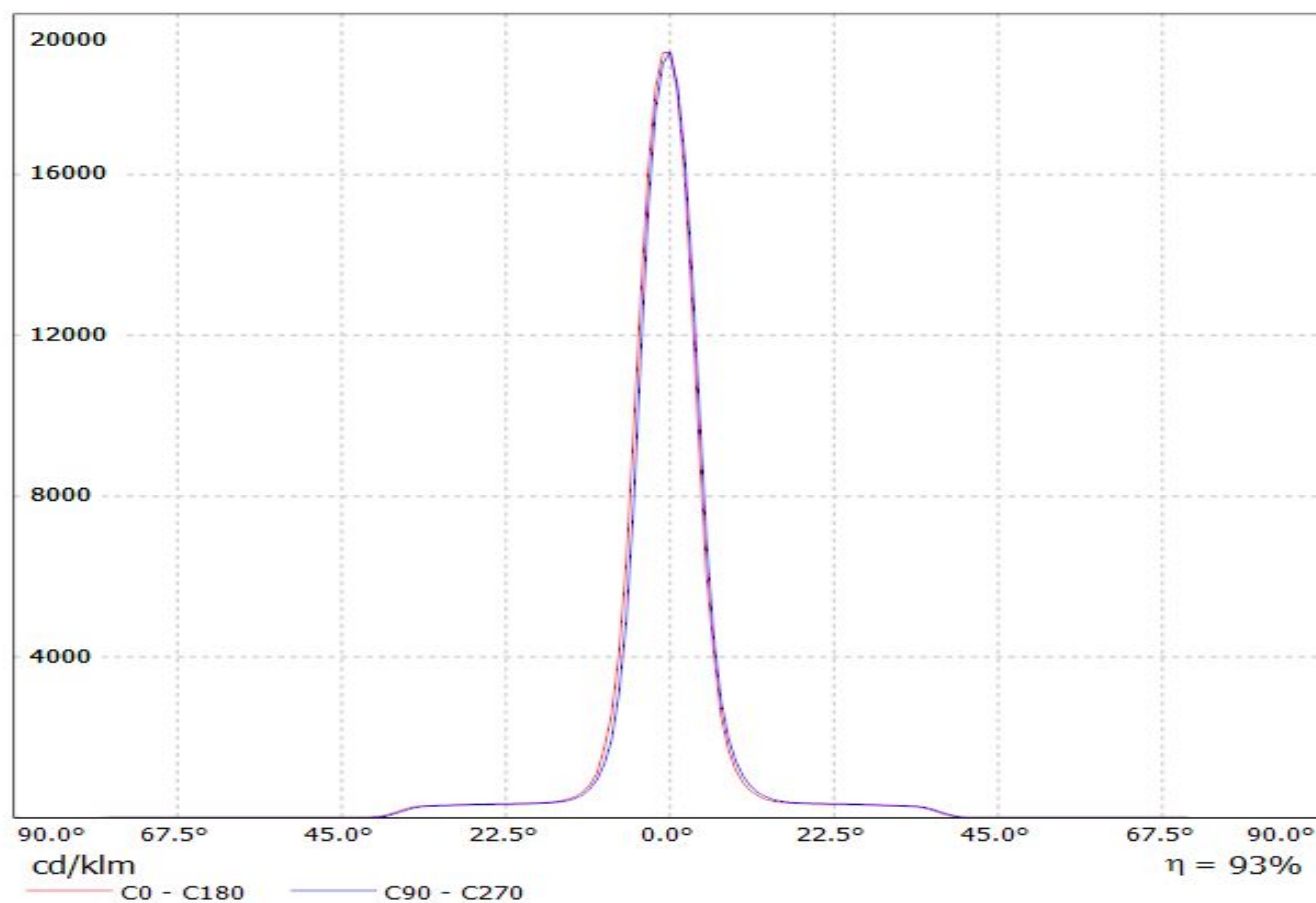
Tolerances if not otherwise shown According to DIN ISO 2768-1 Linear measures: class C According to DIN ISO 2768-2 Form and position: class L THIRD ANGLE PROJECTION:  This drawing is the property of LEDiL Oy. It may not be reproduced, copied or communicated without a written agreement with LEDiL Oy.		LEDiL Ledil Oy Salorankatu 10 FIN 24240 SALO Finland		
		DRAWING TITLE F13379_Angela-S		
		SIZE A3	PART NUMBER F13379	
		SCALE 1:1	WEIGHT 78,76 g	SHEET 1/1

Luminaire: LEDiL Oy F13379_ANGELA-S_(COB_1205) Eff.94.0%
Lamps: 1 x Luxeon_COB_1205_1092.75lm@250mA_P=8.33092W_I=249.9mA

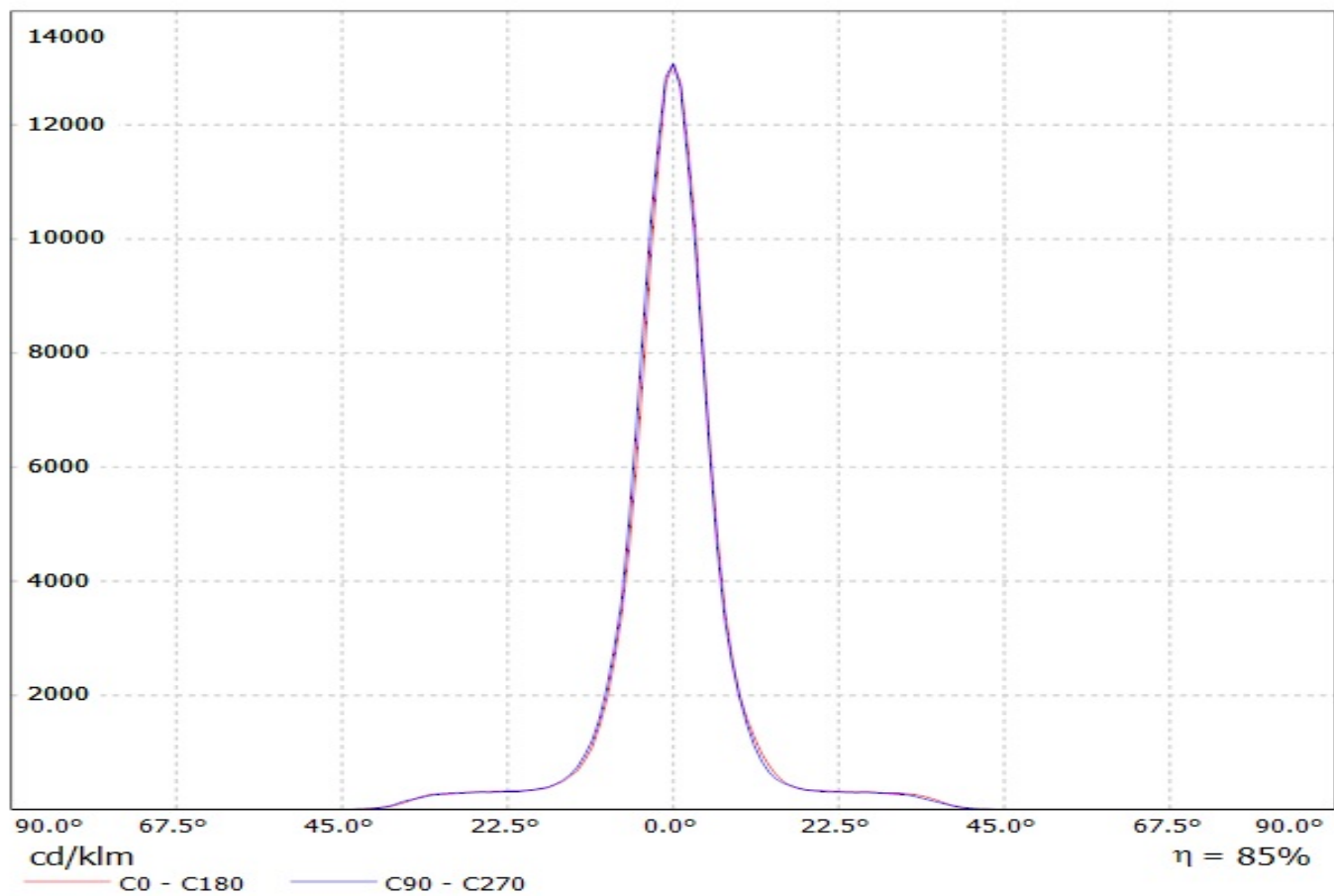


Luminaire: LEDiL Oy F13662_ANGELA-S-B_(Luxeon_CoB_1205)

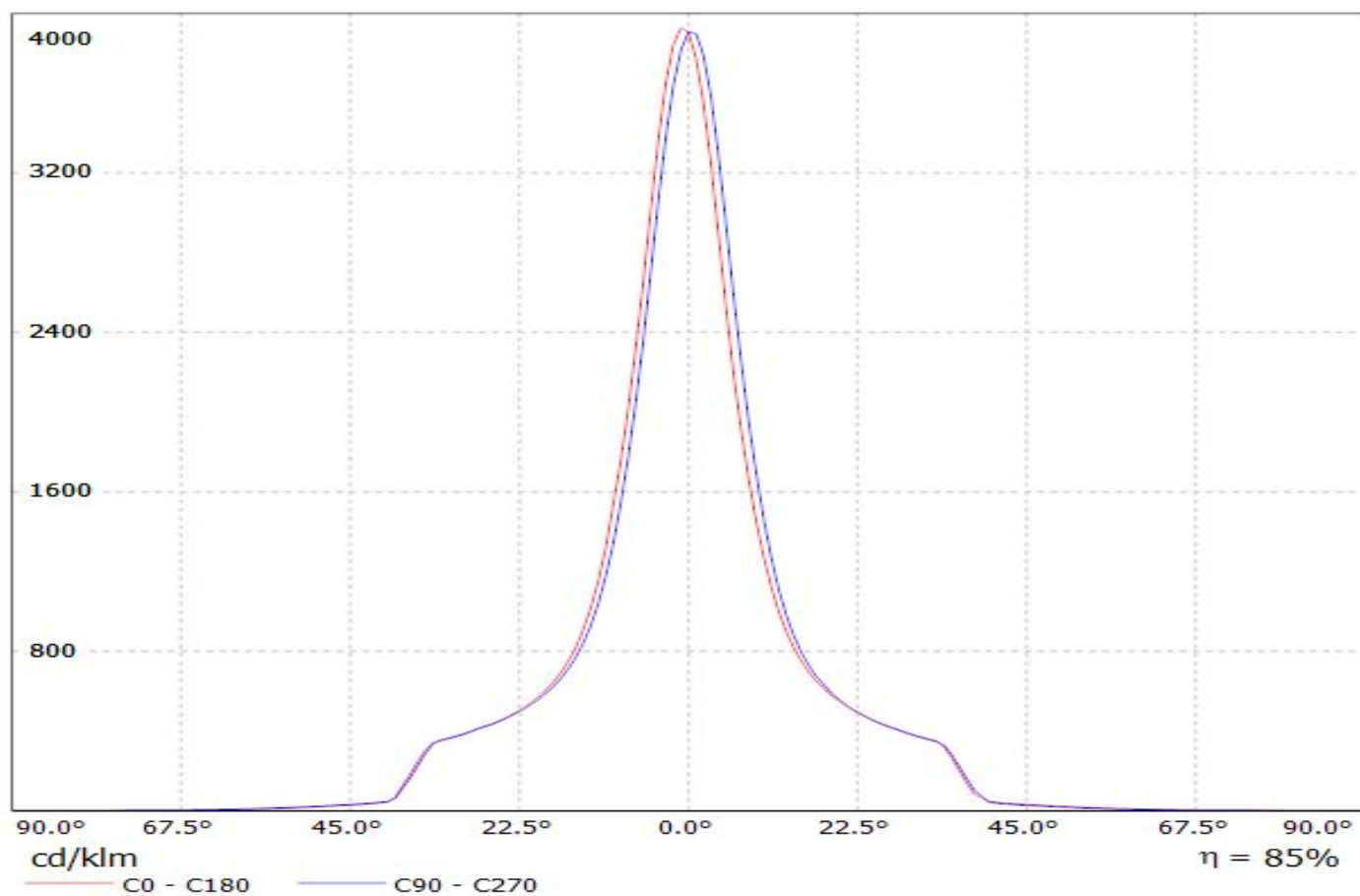
Lamps: 1 x LUXEON_COB_1205_(LHC1-3080-1205)_1115lm@250mA_CCT=3000K_P=11.183W_I=249.8mA



Luminaire: LEDil Oy FC13991_ANGELA-RZ-S (Luxeon_CoB_1205)
Lamps: 1 x Philips Lumileds Luxeon CoB 1205 (LHC1-3080-1205) 1078.92lm @ 250mA P=8.4W I=250mA

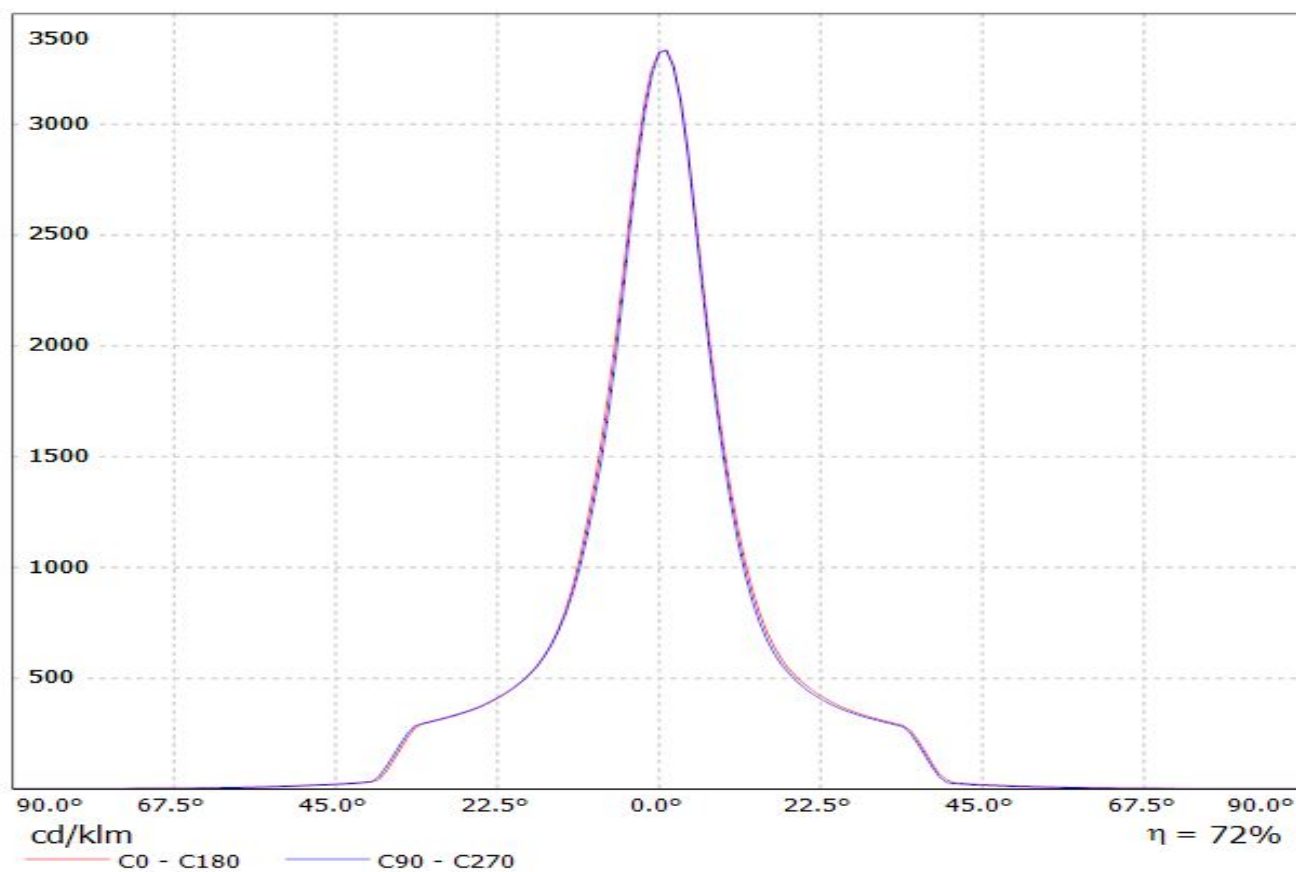


Luminaire: LEDiL Oy F13380_ANGELA-M_(COB_1205) Eff.85.3%
Lamps: 1 x Luxeon_COB_1205_1092.75lm@250mA_P=8.33092W_I=249.9mA

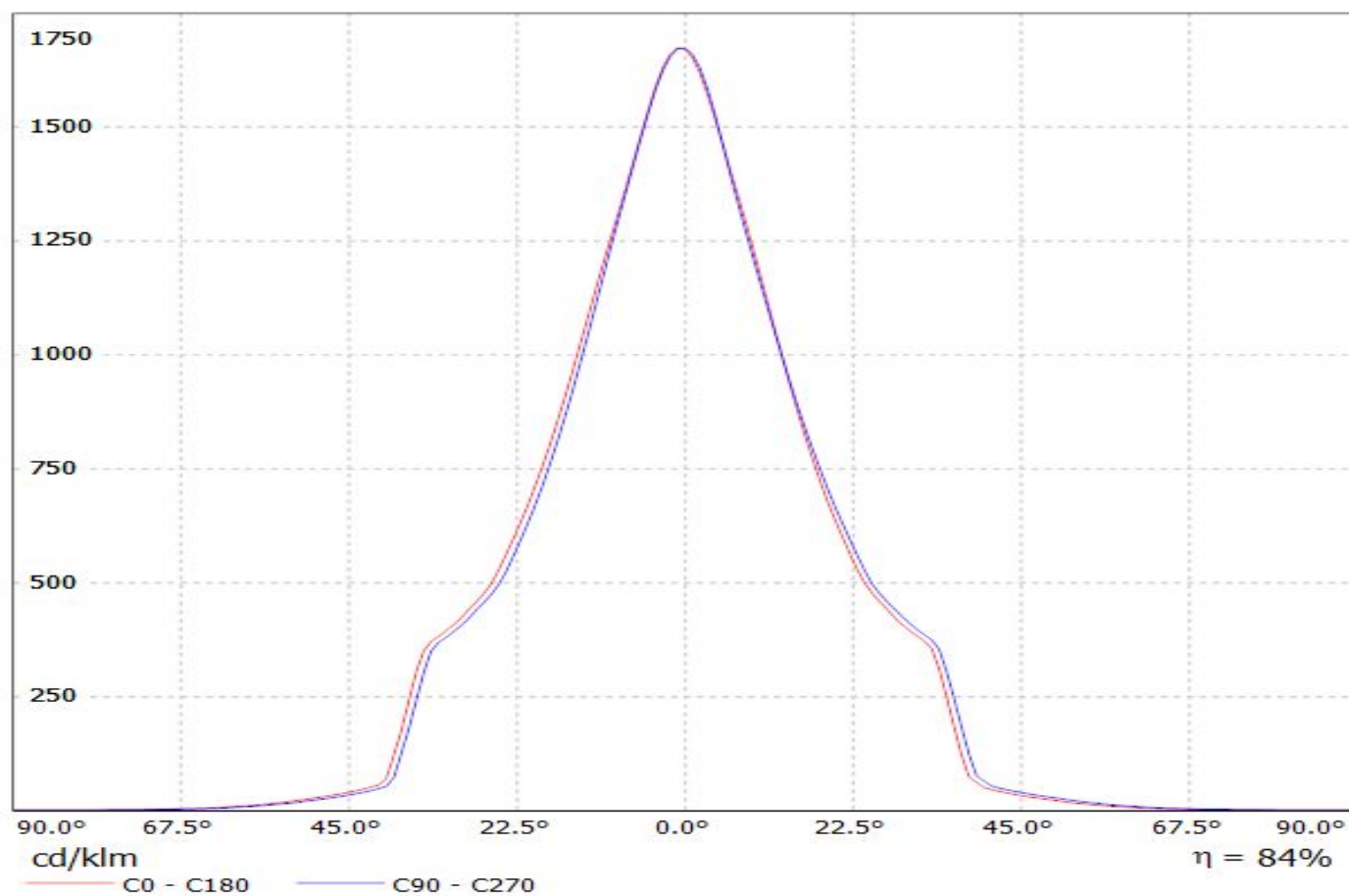


Luminaire: LEDiL Oy F13663_ANGELA-M-B_(Luxeon_CoB_1205)

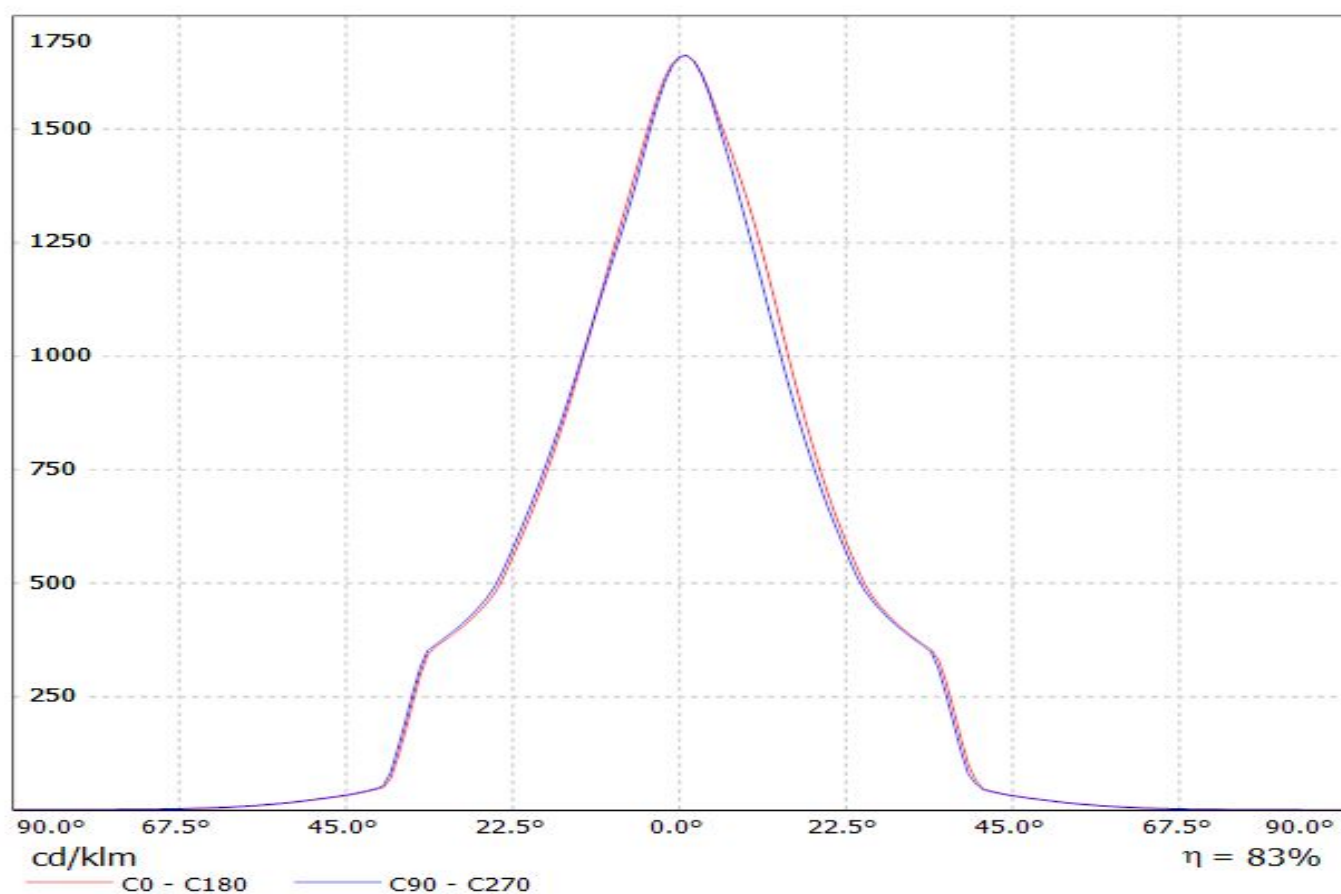
Lamps: 1 x LUXEON_COB_1205_(LHC1-3080-1205)_1274.35lm@250mA_CCT=3000K_P=11.183W_I=249.8mA



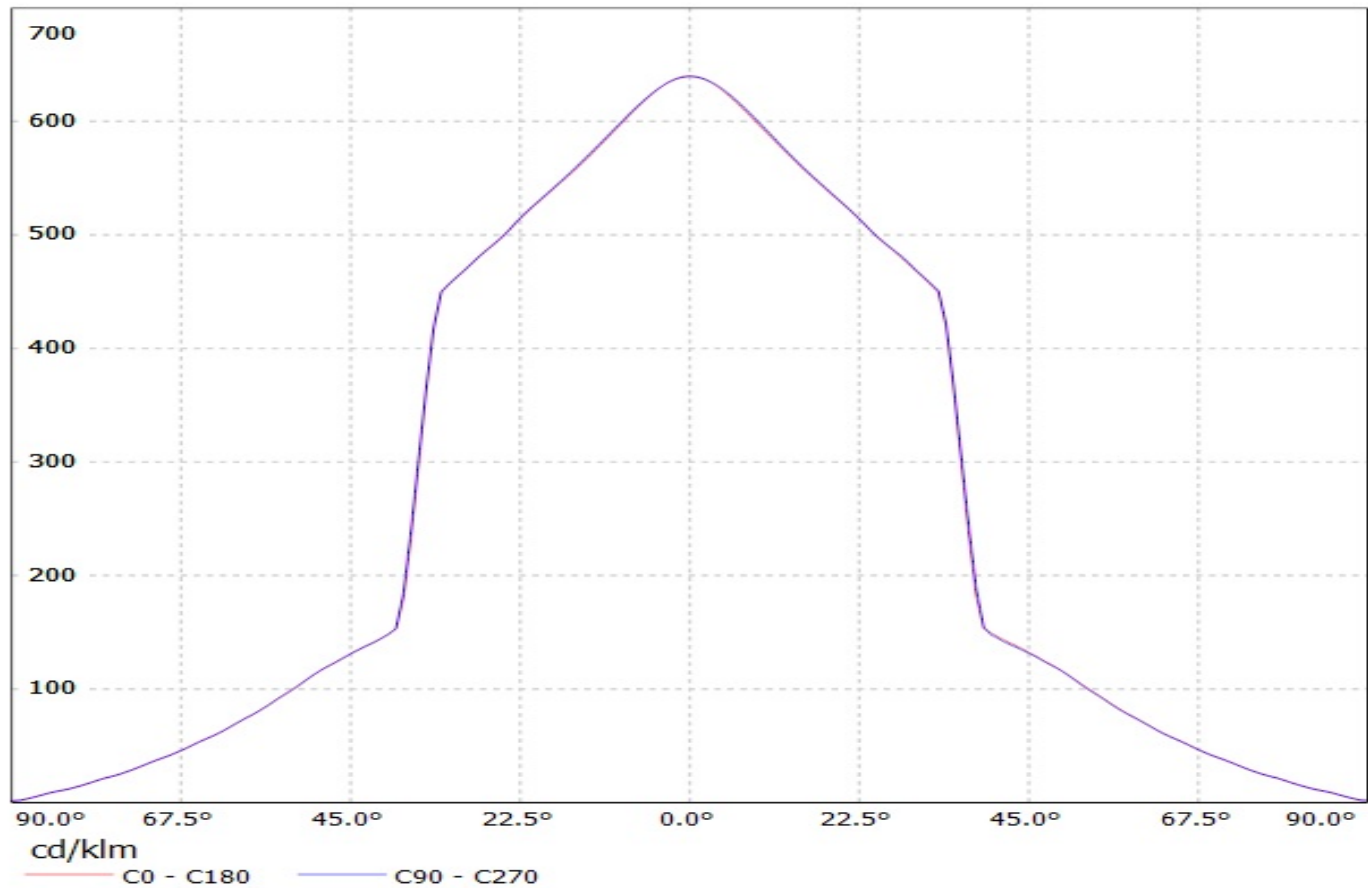
Luminaire: LEDiL Oy F13381_ANGELA-W_(COB_1205) Eff.83.8%
Lamps: 1 x Luxeon_COB_1205_1092.75lm@250mA_P=8.33092W_I=249.9mA



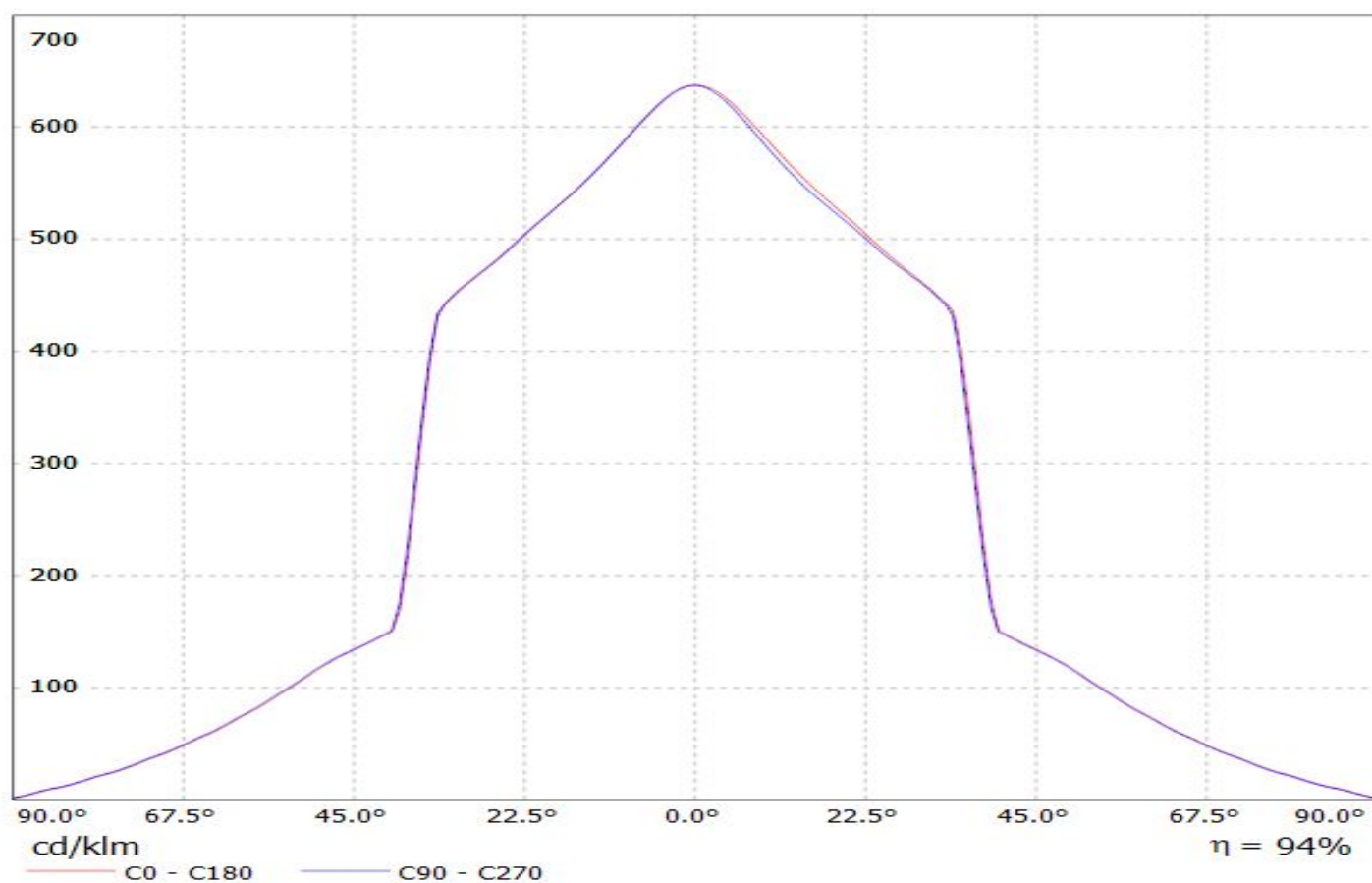
Luminaire: LEDiL Oy F13664_ANGELA-W-B_(Luxeon_CoB_1205)
Lamps: 1 x LUXEON_COB_1205_(LHC1-3080-1205)_1115lm@250mA_CCT=3000K_P=11.183W_I=249.8mA



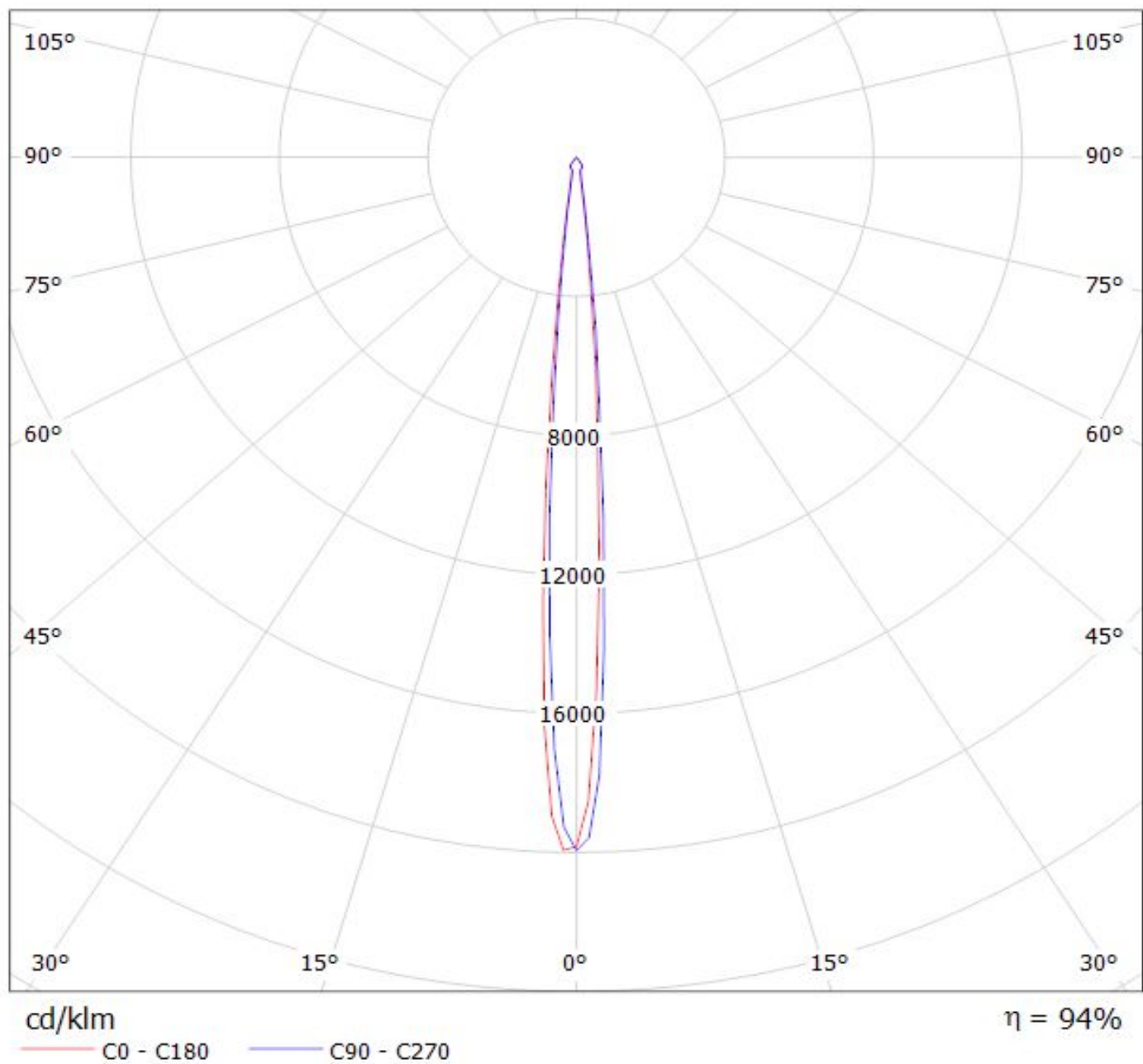
Luminaire: LEDiL Oy F13840_ANGELA-XW_(COB_1205) Eff: 93%
Lamps: 1 x Luxeon_COB_1205_1088.09lm@250mA_P=8.32942W_I=249.9mA



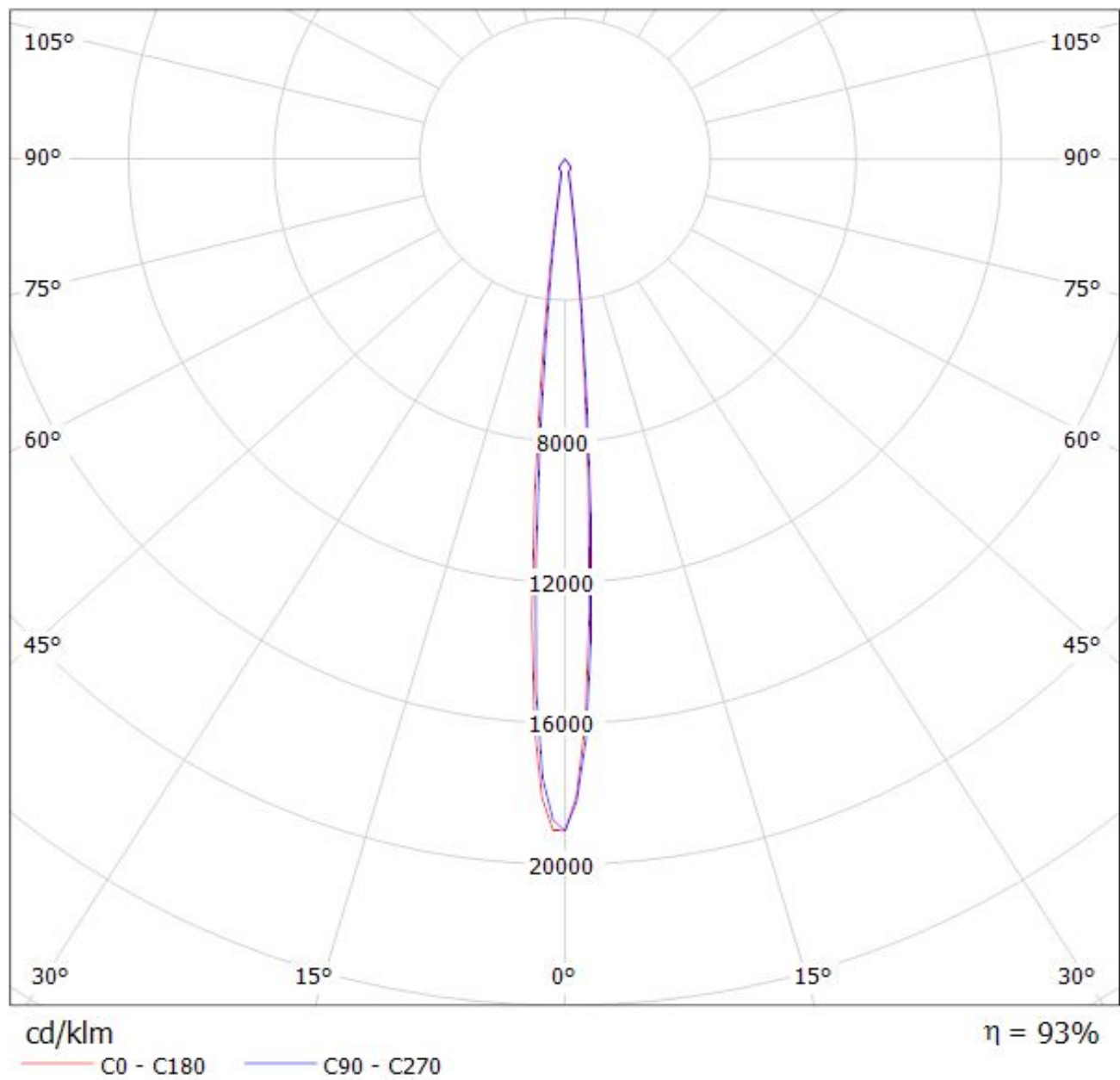
Luminaire: LEDiL Oy F13841_ANGELA-XW-B_(Luxeon_CoB_1205)
Lamps: 1 x LUXEON_COB_1205_(LHC1-3080-1205)
_1115lm@250mA_CCT=3000K_P=11.183W_I=249.8mA



Luminaire: LEDiL Oy F13379_ANGELA-S_(COB_1205) Eff.94.0%
Lamps: 1 x Luxeon_COB_1205_1092.75lm@250mA_P=8.33092W_I=249.9mA

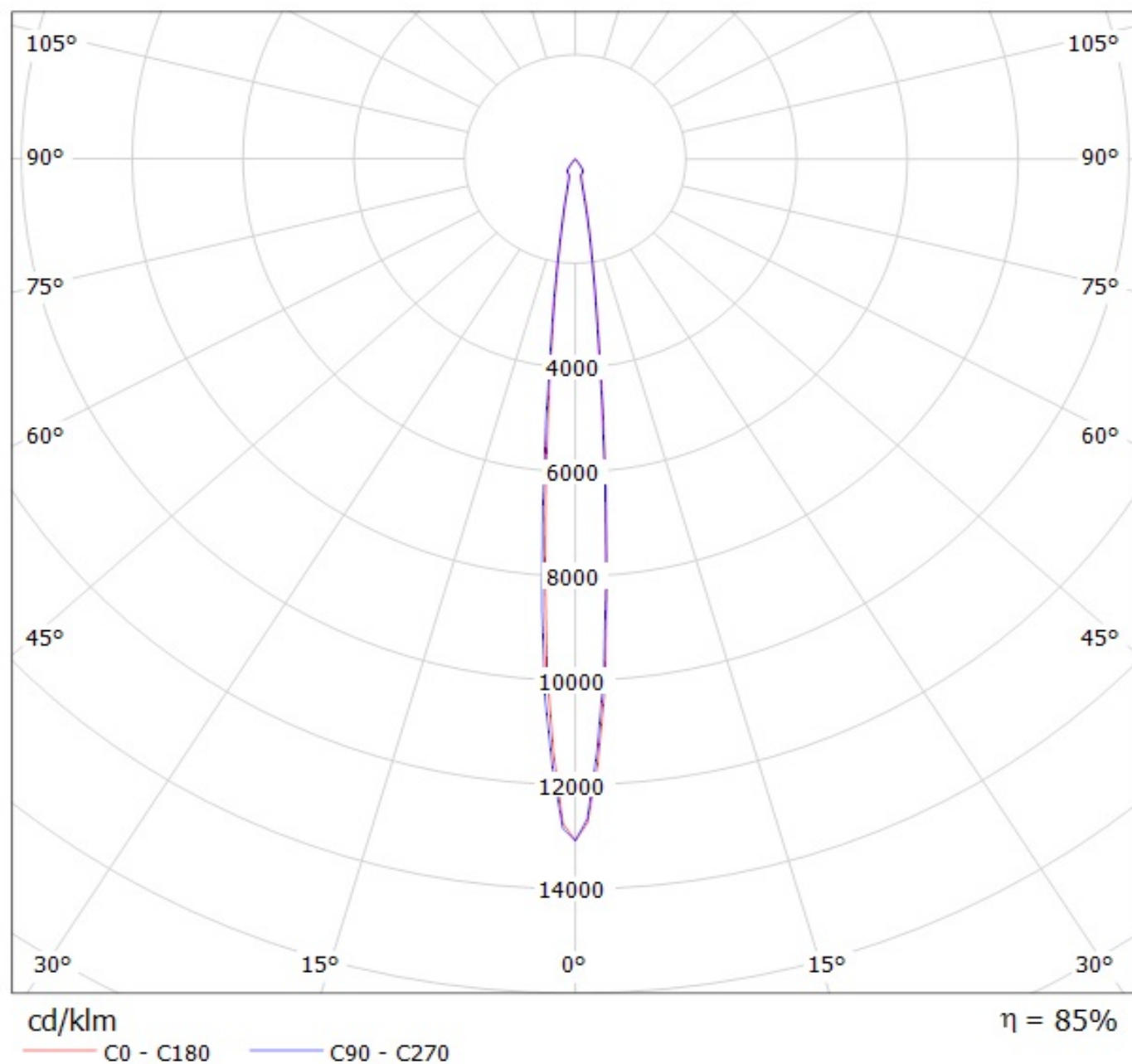


Luminaire: LEDiL Oy F13662_ANGELA-S-B_(Luxeon_CoB_1205)
Lamps: 1 x LUXEON_COB_1205_(LHC1-3080-1205)_1115lm@250mA_CCT=3000K_P=11.183W_I=249.8mA

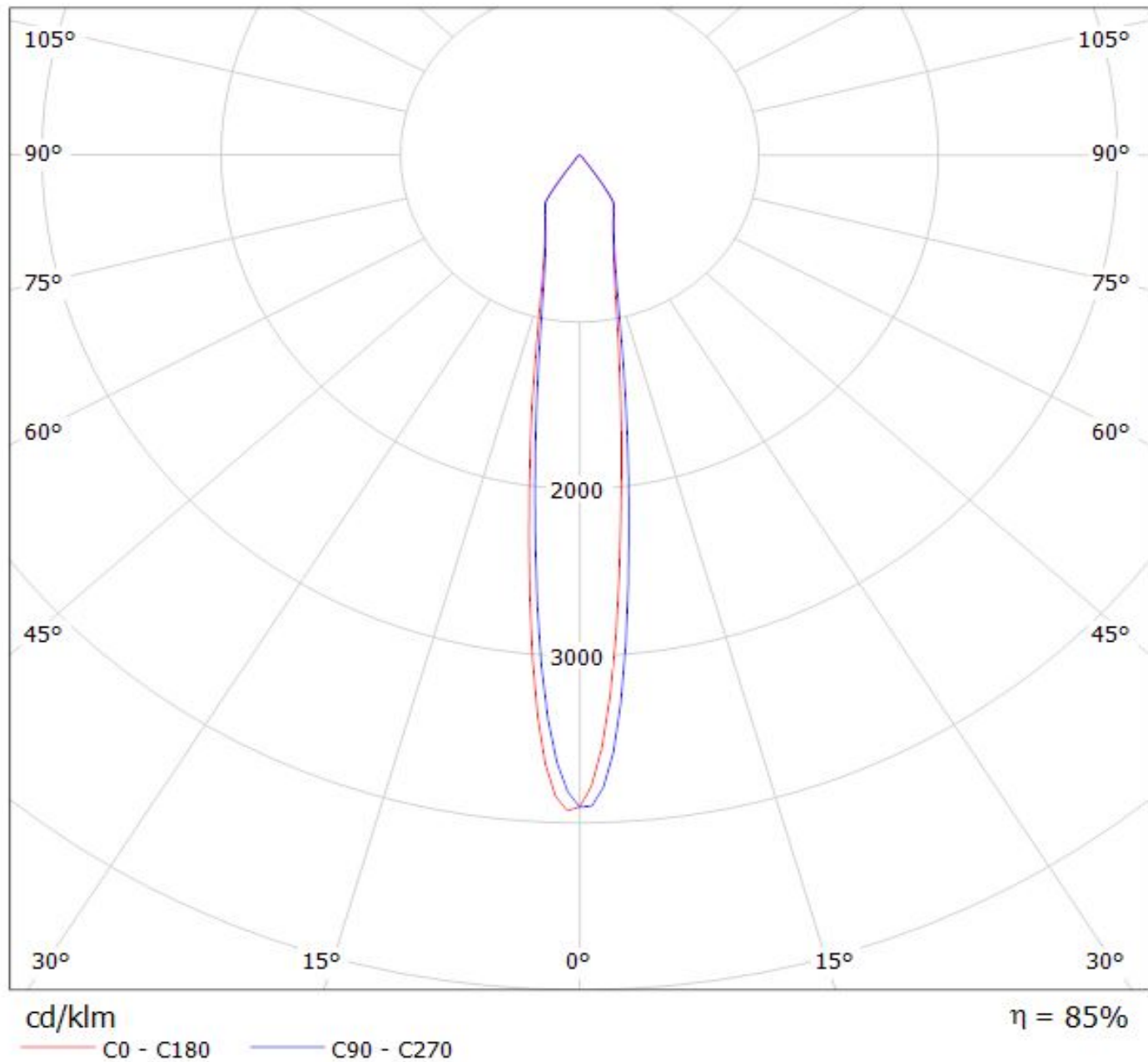


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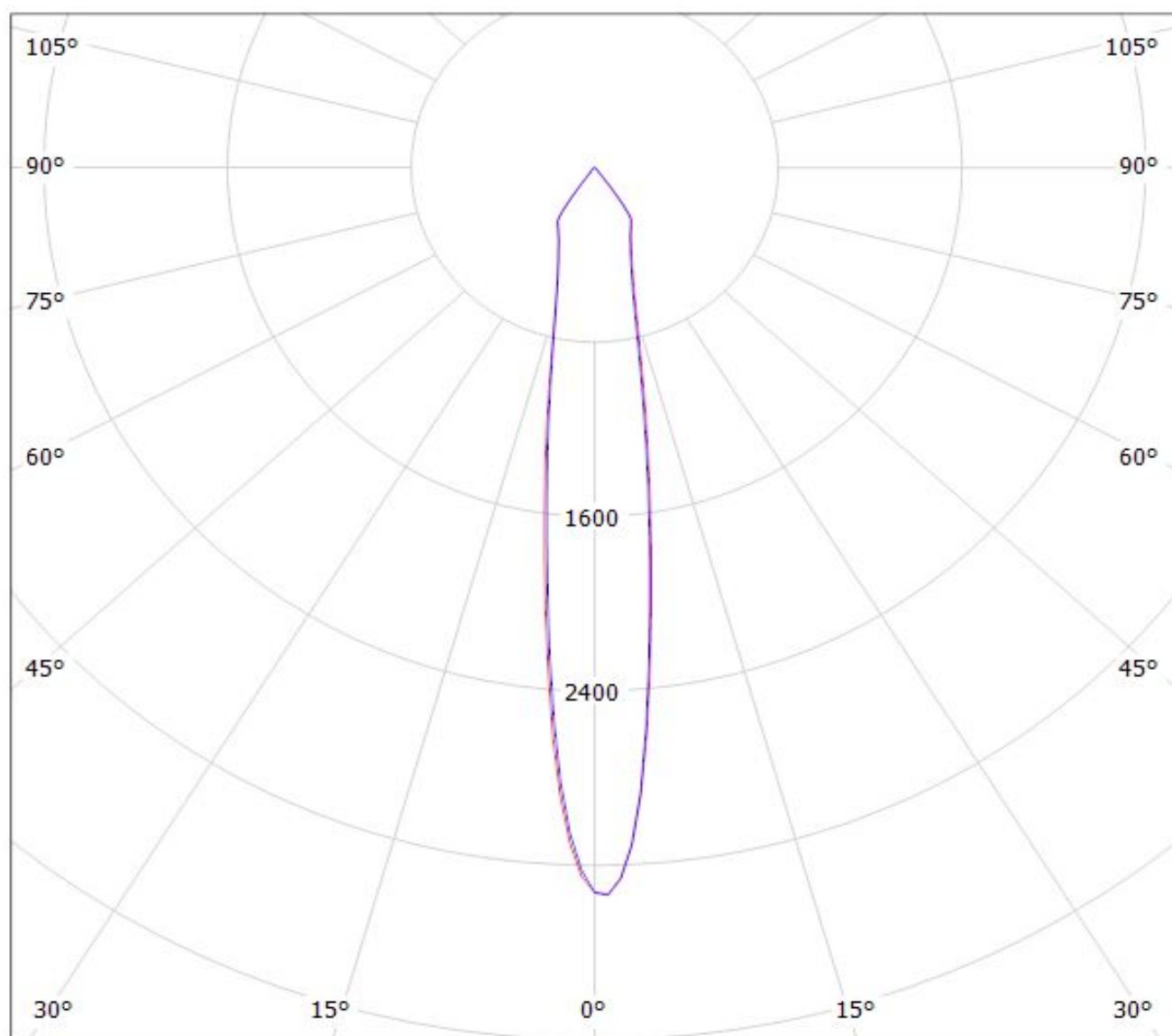


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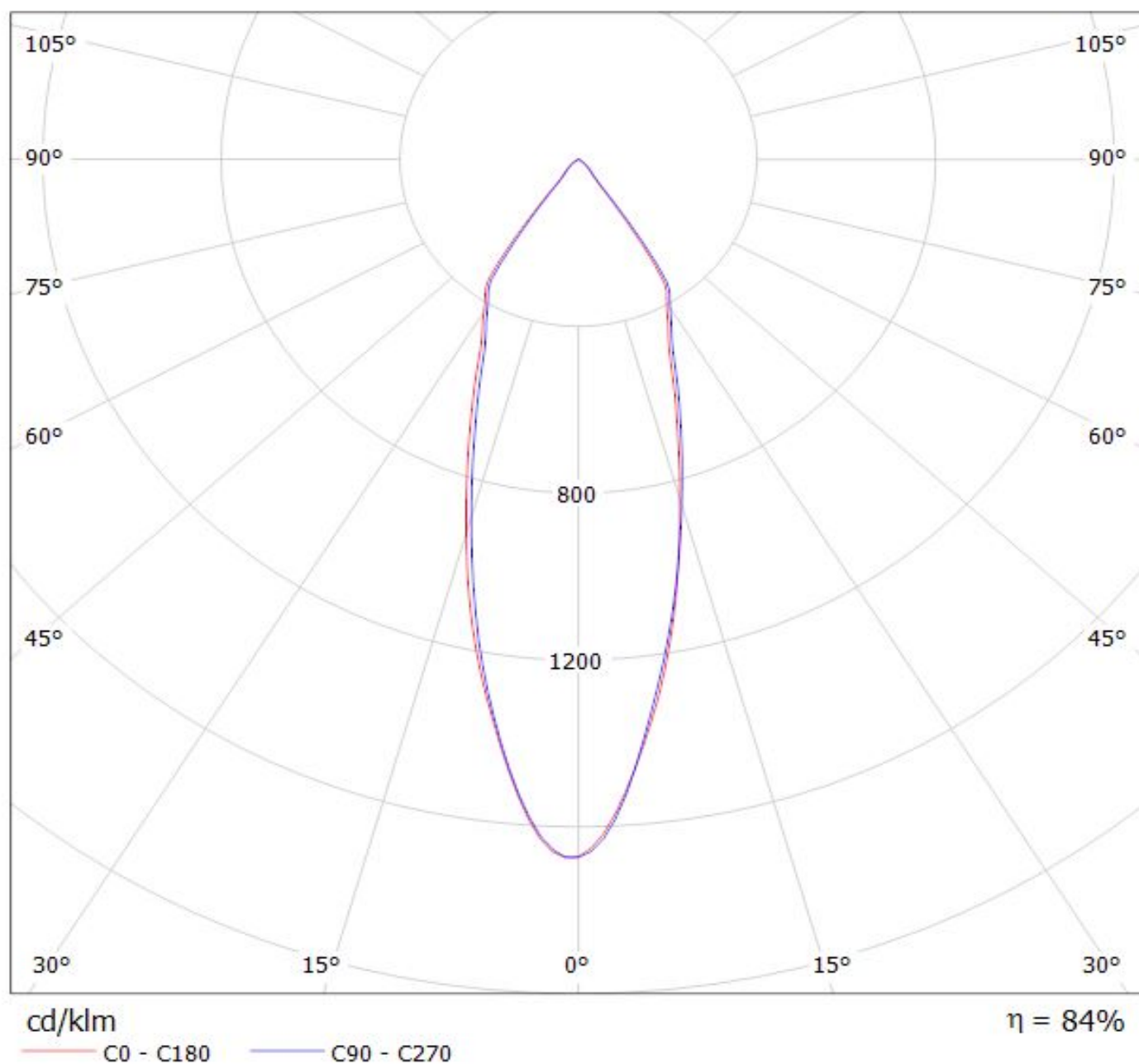
cd/klm

C0 - C180

C90 - C270

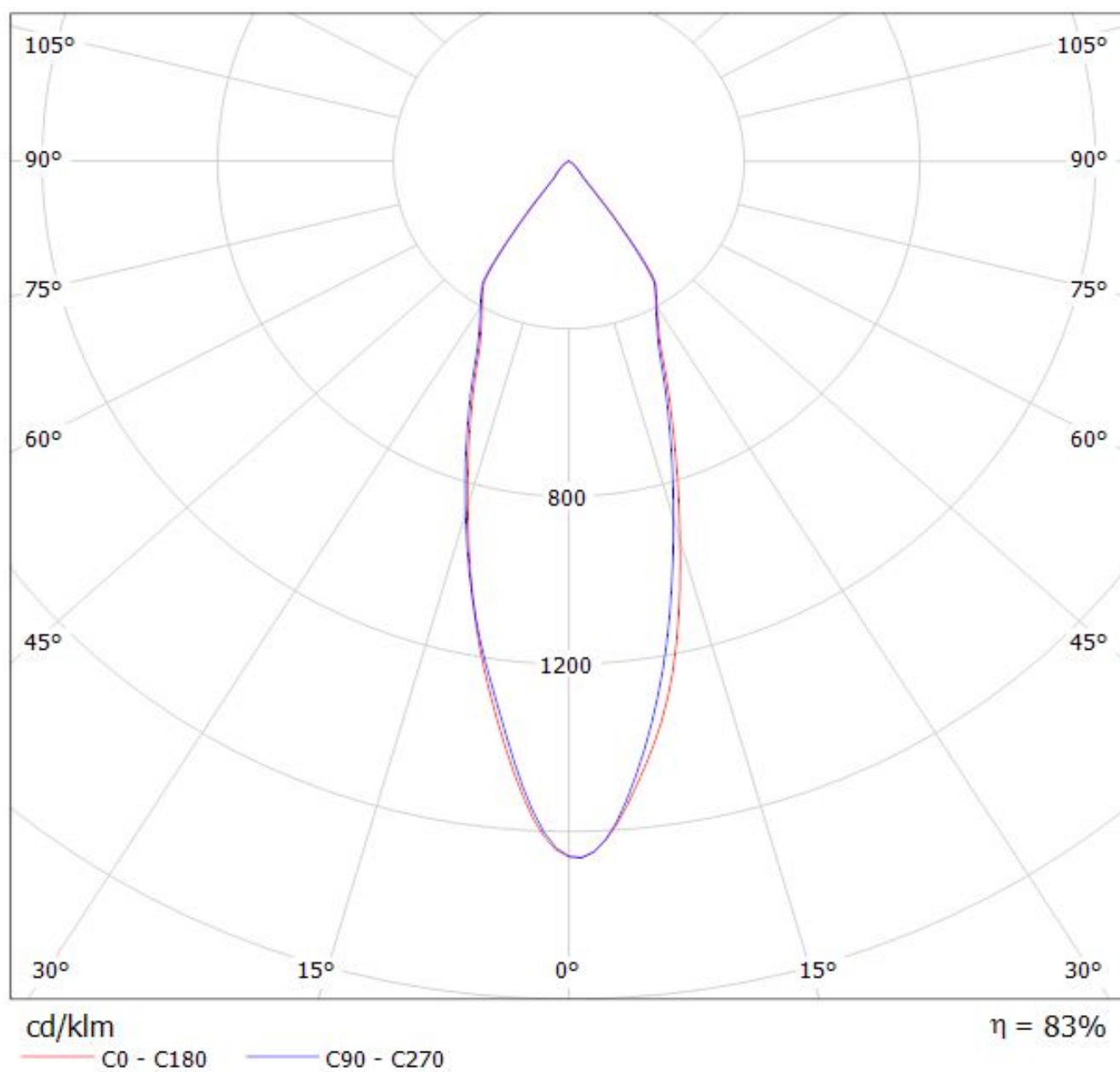
$\eta = 72\%$

Luminaire: LEDiL Oy F13381_ANGELA-W_(COB_1205) Eff.83.8%
Lamps: 1 x Luxeon_COB_1205_1092.75lm@250mA_P=8.33092W_I=249.9mA

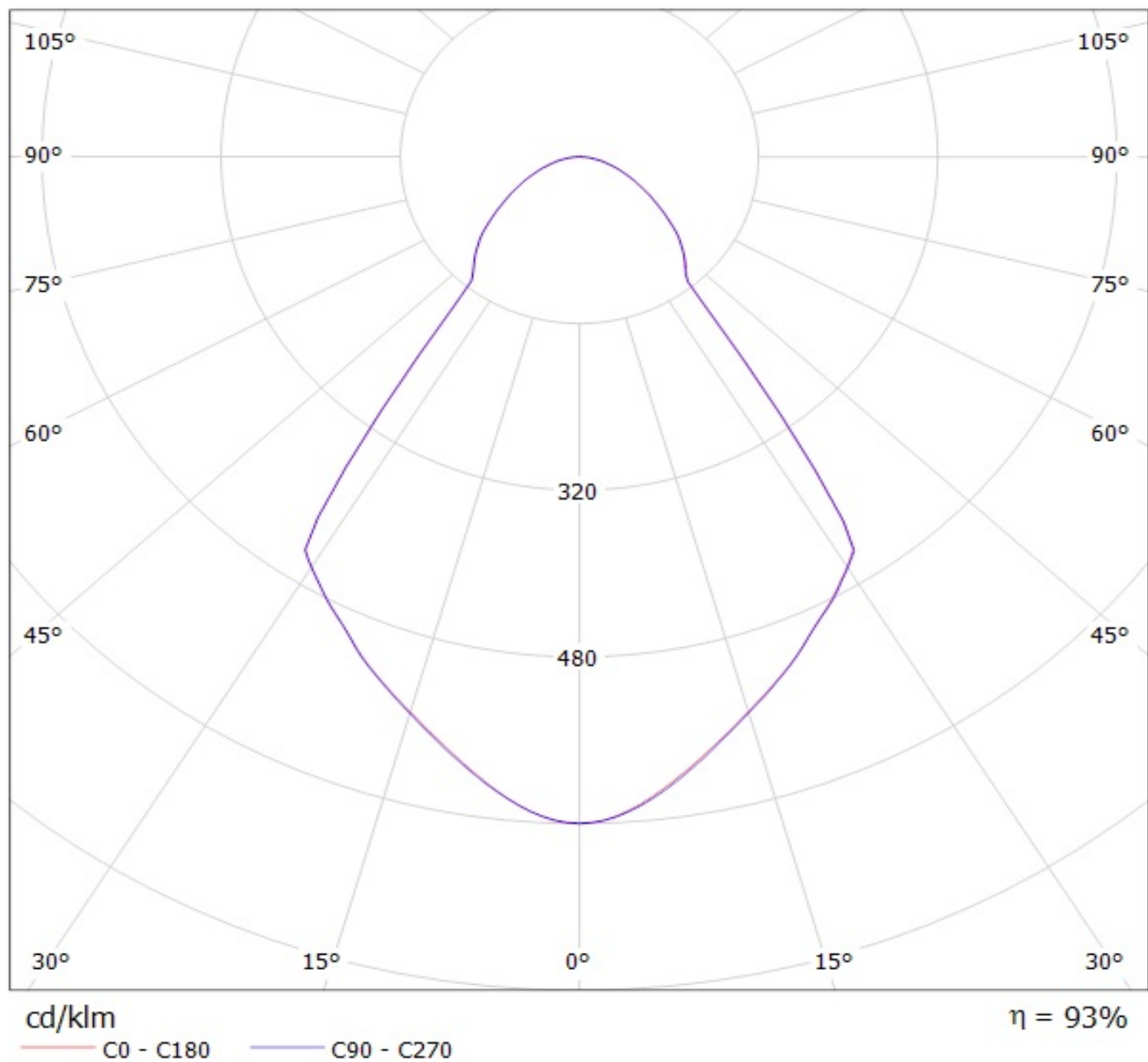


Luminaire: LEDiL Oy F13664_ANGELA-W-B_(Luxeon_CoB_1205)

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Luminaire: LEDiL Oy F13841_ANGELA-XW-B_(Luxeon_CoB_1205)
Lamps: 1 x LUXEON_COB_1205_(LHC1-3080-1205)
_1115lm@250mA_CCT=3000K_P=11.183W_I=249.8mA

