

**Product number C13584_CLAMP-VERO29**

Family	ANGELA	FWHM	N/A degrees
Type	Base part	Efficiency	-
LED	VERO29	cd/Im	-
Color	White	Gerber File	Available
Diameter	53 mm		
Height	5.5 mm		
Style	Round		
Optic Material	-		
Holder Material	PC		
Fastening	["screw"]		
Status	Production ready		

**Product number F13379_ANGELA-S**

Family	ANGELA	FWHM	22 degrees
Type	Reflector	Efficiency	85 %
LED	VERO29	cd/Im	3.580
Color	Metal	Gerber File	Available
Diameter	119.5 mm		
Height	74.27 mm		
Style	Round		
Optic Material	PC		
Holder Material	-		
Fastening	["socket"]		
Status	Production ready		

**Product number F13379_ANGELA-S**

Family	ANGELA	FWHM	22 degrees
Type	Reflector	Efficiency	85 %
LED	VERO29	cd/Im	3.410
Color	Metal	Gerber File	Available
Diameter	119.5 mm		
Height	74.27 mm		
Style	Round		
Optic Material	PC		
Holder Material	-		
Fastening	["socket"]		
Status	Production ready		

**Product number F13380_ANGELA-M**

Family	ANGELA	FWHM	29 degrees
Type	Reflector	Efficiency	85 %
LED	VERO29	cd/Im	1.900
Color	Metal	Gerber File	Available
Diameter	119.5 mm		
Height	74.5 mm		
Style	Round		
Optic Material	PC		
Holder Material	-		
Fastening	""		
Status	Production ready		

**Product number FCN13698_ANGELA-M**

Family	ANGELA	FWHM	29 degrees
Type	RefPack	Efficiency	85 %
LED	VERO29	cd/Im	1.900
Color	Metal	Gerber File	Available
Diameter	119.5 mm	For Bridgelux Vero29 LEDiL clamp C13584 included	
Height	79.31 mm		
Style	Round		
Optic Material	-		
Holder Material	-		
Fastening	""		
Status	Production ready		

**Product number F13380_ANGELA-M**

Family	ANGELA	FWHM	30 degrees
Type	Reflector	Efficiency	79 %
LED	VERO29	cd/Im	1.710
Color	Metal	Gerber File	Available
Diameter	119.5 mm		
Height	74.5 mm		
Style	Round		
Optic Material	PC		
Holder Material	-		
Fastening	""		
Status	Production ready		

**Product number F13381_ANGELA-W**

Family	ANGELA	FWHM	46 degrees
Type	Reflector	Efficiency	82 %
LED	VERO29	cd/Im	1.190
Color	Metal	Gerber File	Available
Diameter	119.5 mm		
Height	74.5 mm		
Style	Round		
Optic Material	PC		
Holder Material	-		
Fastening	""		
Status	Production ready		

**Product number FCN13704_ANGELA-W**

Family	ANGELA	FWHM	46 degrees
Type	RefPack	Efficiency	82 %
LED	VERO29	cd/Im	1.190
Color	Metal	Gerber File	Available
Diameter	119.5 mm	For Bridgelux Vero29 LEDiL clamp C13584 included	
Height	79.31 mm		
Style	Round		
Optic Material	-		
Holder Material	-		
Fastening	""		
Status	Production ready		

**Product number F13381_ANGELA-W**

Family	ANGELA	FWHM	48 degrees
Type	Reflector	Efficiency	78 %
LED	VERO29	cd/Im	1.080
Color	Metal	Gerber File	Available
Diameter	119.5 mm		
Height	74.5 mm		
Style	Round		
Optic Material	PC		
Holder Material	-		
Fastening	""		
Status	Production ready		

**Product number F13840_ANGELA-XW**

Family	ANGELA	FWHM	72 degrees
Type	Reflector	Efficiency	94 %
LED	VERO29	cd/Im	0.620
Color	White	Gerber File	Available
Diameter	119.5 mm		
Height	74.5 mm		
Style	Round		
Optic Material	HRPC		
Holder Material	-		
Fastening	""		
Status	Production ready		

**Product number F13840_ANGELA-XW**

Family	ANGELA	FWHM	72 degrees
Type	Reflector	Efficiency	88 %
LED	VERO29	cd/Im	0.570
Color	White	Gerber File	Available
Diameter	119.5 mm		
Height	74.5 mm		
Style	Round		
Optic Material	HRPC		
Holder Material	-		
Fastening	""		
Status	Production ready		

**Product number FCN14691_ANGELA-XW**

Family	ANGELA	FWHM	72 degrees
Type	RefPack	Efficiency	94 %
LED	VERO29	cd/Im	0.620
Color	White	Gerber File	Available
Diameter	119.5 mm		
Height	-		
Style	Round		
Optic Material	-		
Holder Material	-		
Fastening	""		
Status	Production ready		



PRODUCT DATASHEET
ANGELA series
last update 3/11/2016

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.

GENERAL INFORMATION

- Product series especially designed & optimized for VERO29 series of LEDs.
- Special care taken to make light distribution as uniform as possible.
- 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).
- Optic holder molded by high quality PC material (120 dergees of Celcius / 248 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.

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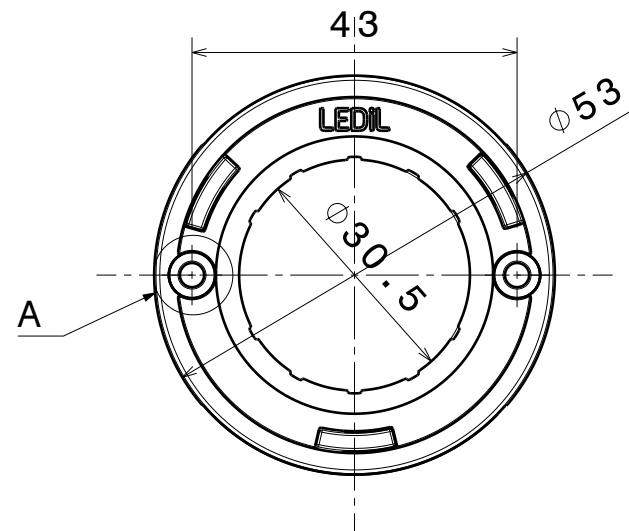
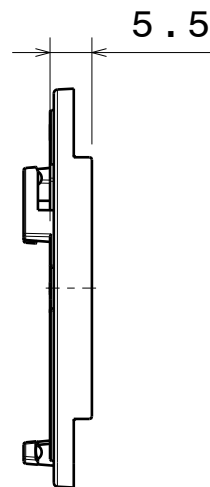
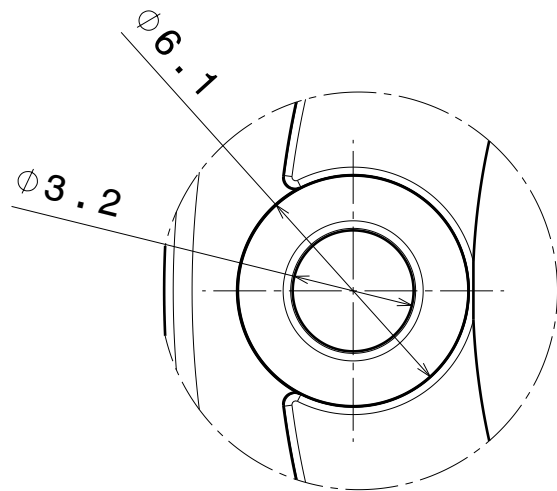
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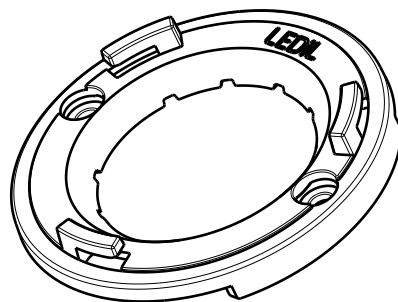
2

1



Right view
Scale: 1:1

Front view
Scale: 1:1



Isometric view
Scale: 1:1

This drawing is our property. It can't be reproduced or communicated without our written agreement.		 Ledil Oy Salorankatu 10 FIN 24240 SALO Finland	
DRAWING TITLE		Part Drawing	
DRAWN BY PL		DATE 04.03.2013	
CHECKED BY -		DATE -	
DESIGNED BY PL		DATE -	
SIZE A3		PART NUMBER C13584	
SCALE 1:1		WEIGHT -	
		SHEET 1/1	

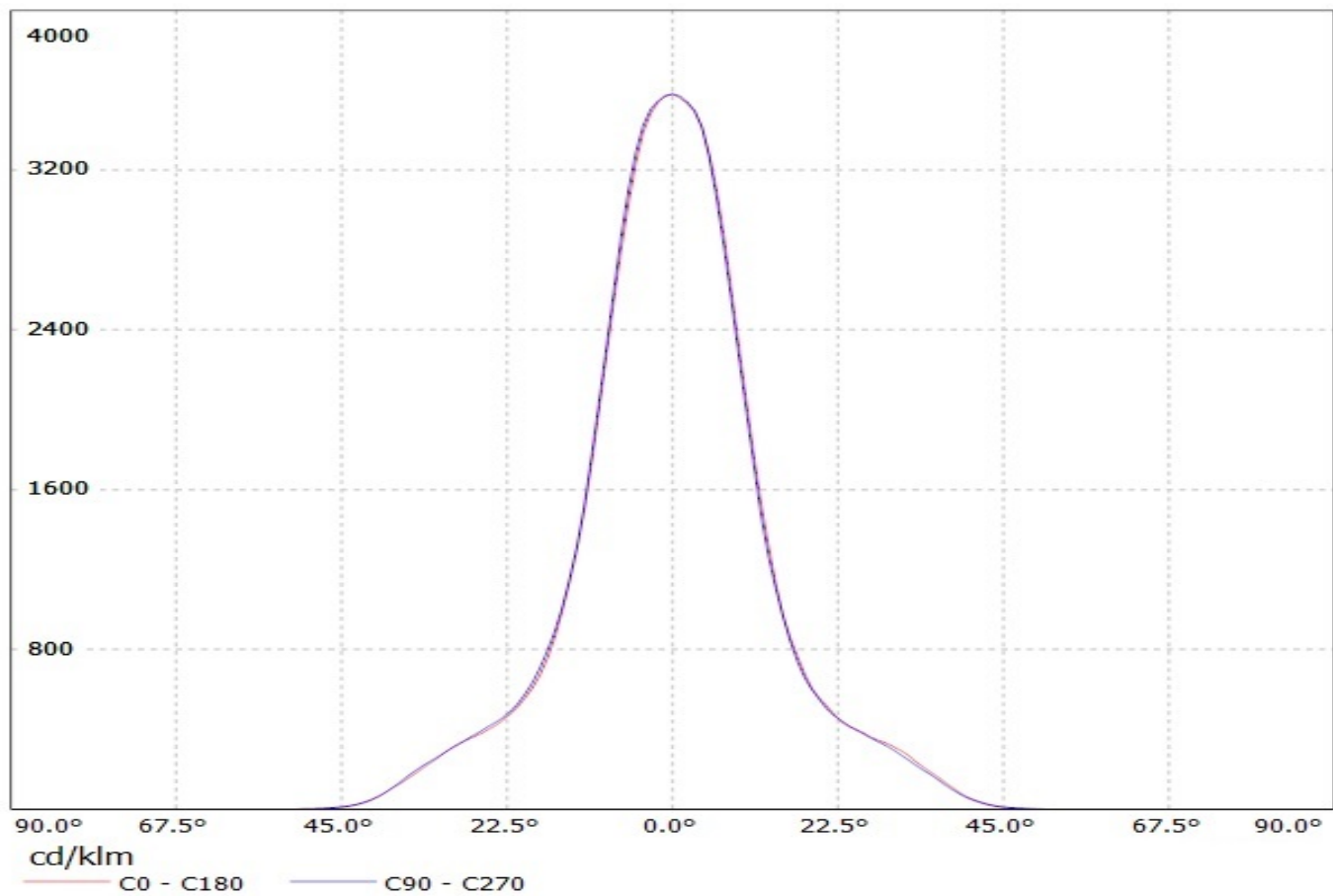
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G

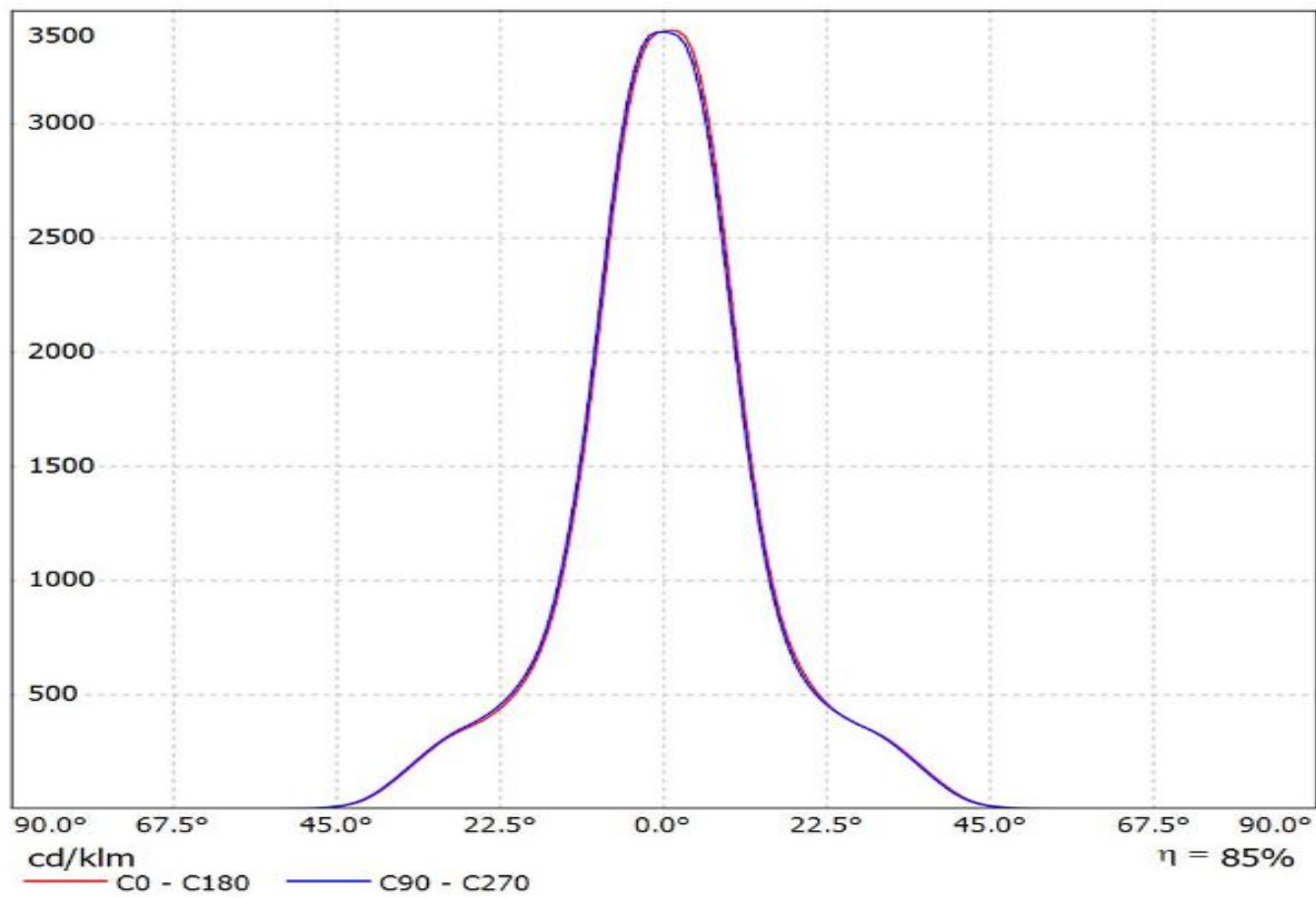
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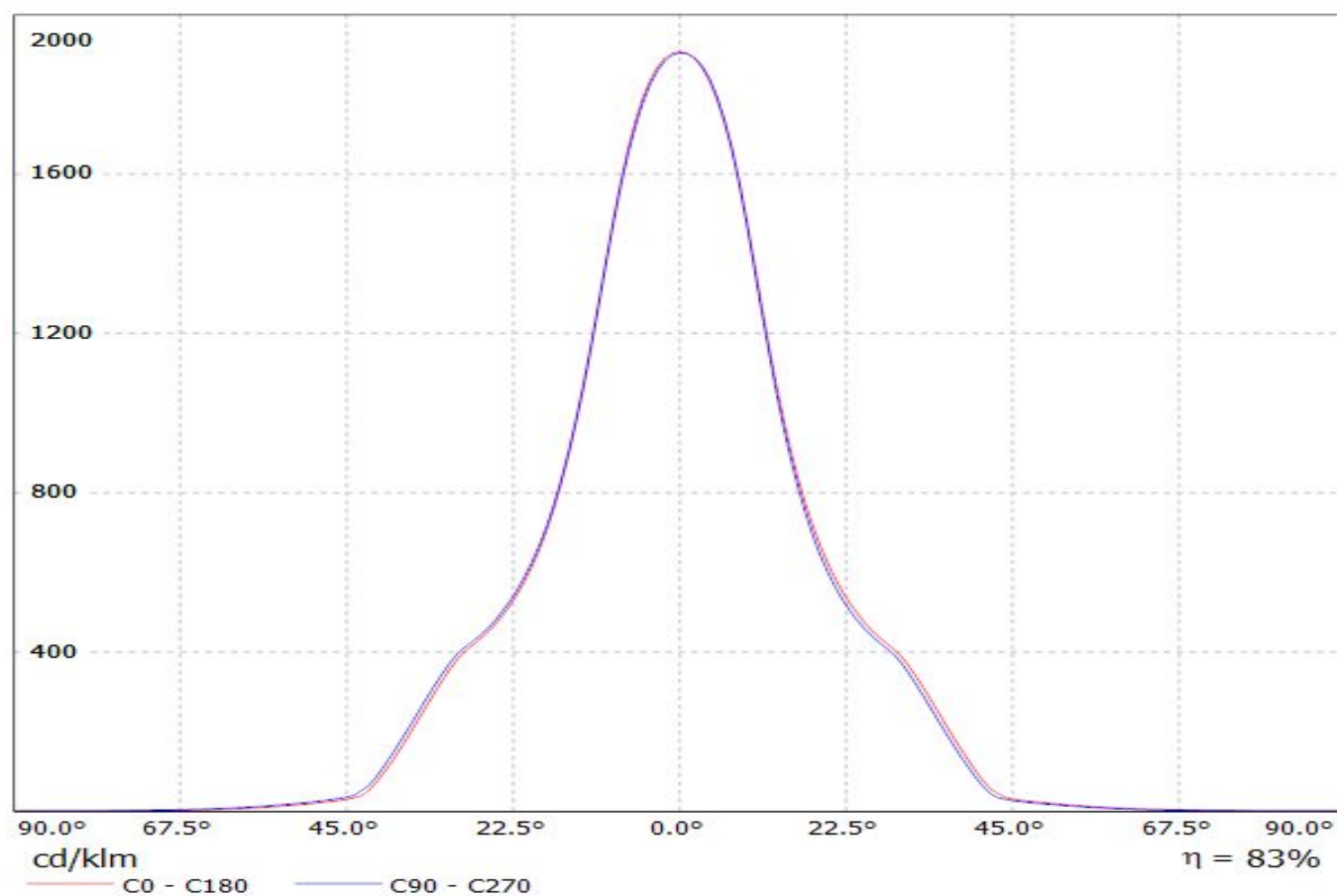
Luminaire: LEDil Oy FCN14652_ANGELA-S_(VERO29)
Lamps: 1 x Bridgelux VERO29 (BXRC-50C10K0-L-04) 1336.38lm @ 250mA CCT=4900K P=8.7W I=250mA



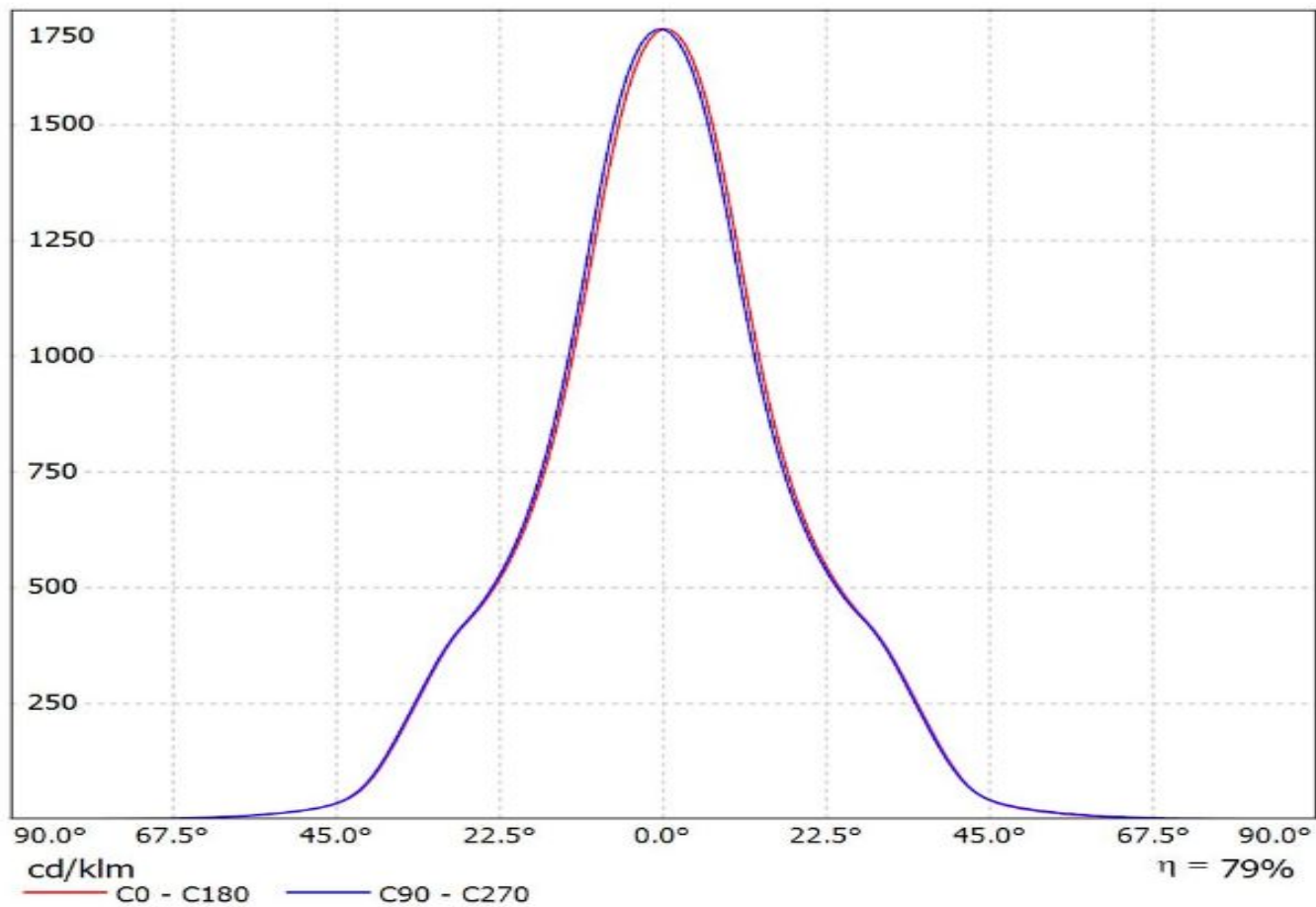
Luminaire: Ledil FCN14815_ANGELA-RZ-S_(Vero29)
Lamps: 1 x Bridgelux_Vero29_(BXRC-50C10K0-L04)_1417.64lm@250mA_CCT=4900K_P=8.7133W_I=0.25A



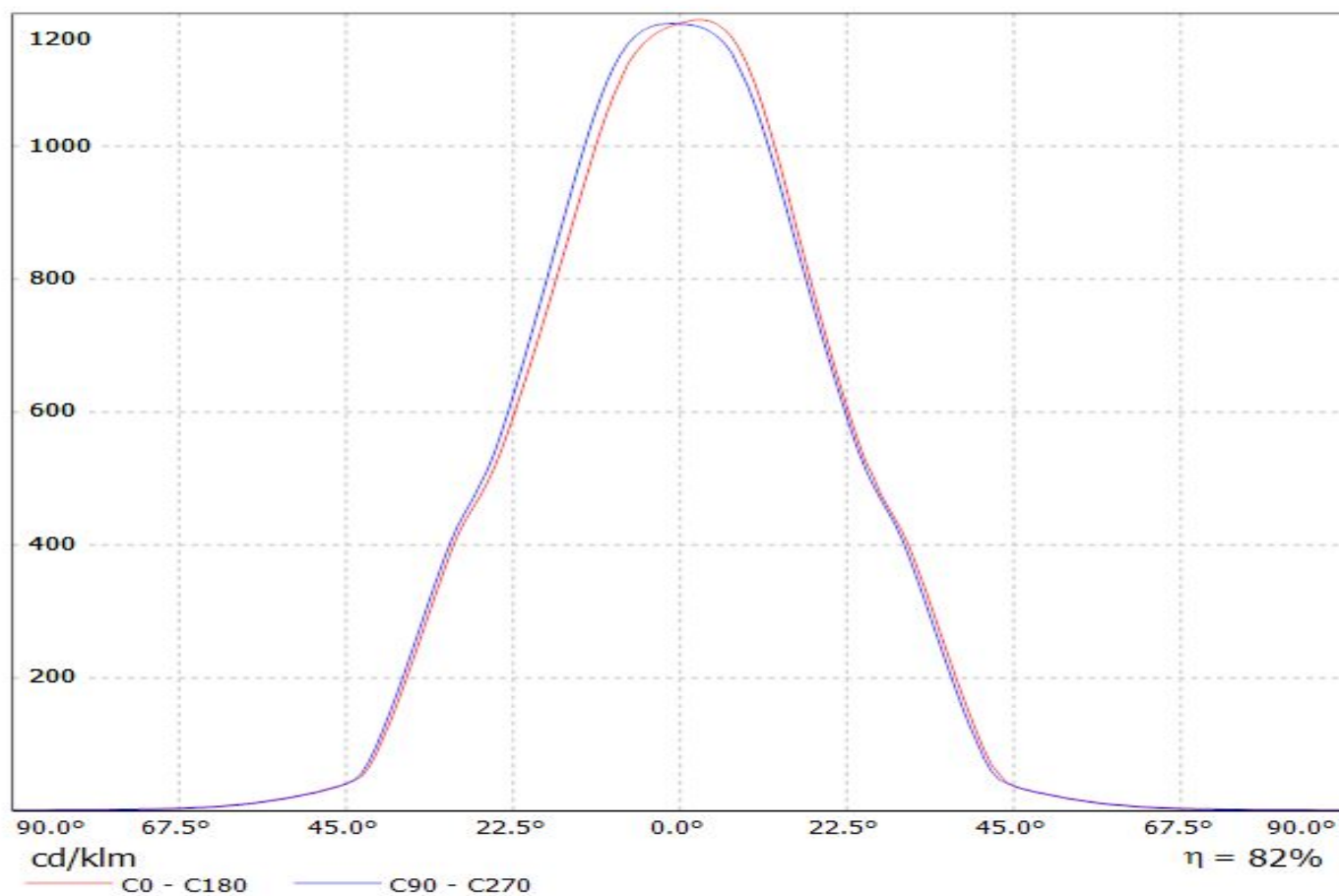
Luminaire: LEDiL Oy FCN13698_ANGELA-M_(VERO29) Eff.83.2%
Lamps: 1 x VERO29_(BXRC-50C10K0-L-04)_1388.09lm@250mA_CCT=1399K_P=8.60286W_I=249.8mA



Luminaire: Ledil FCN14817_ANGELA-RZ-M_(Vero29)
Lamps: 1 x Bridgelux_Vero29_(BXRC-50C10K0-L04)_1417.64lm@250mA_CCT=4900K_P=8.7133W_I=0.25A

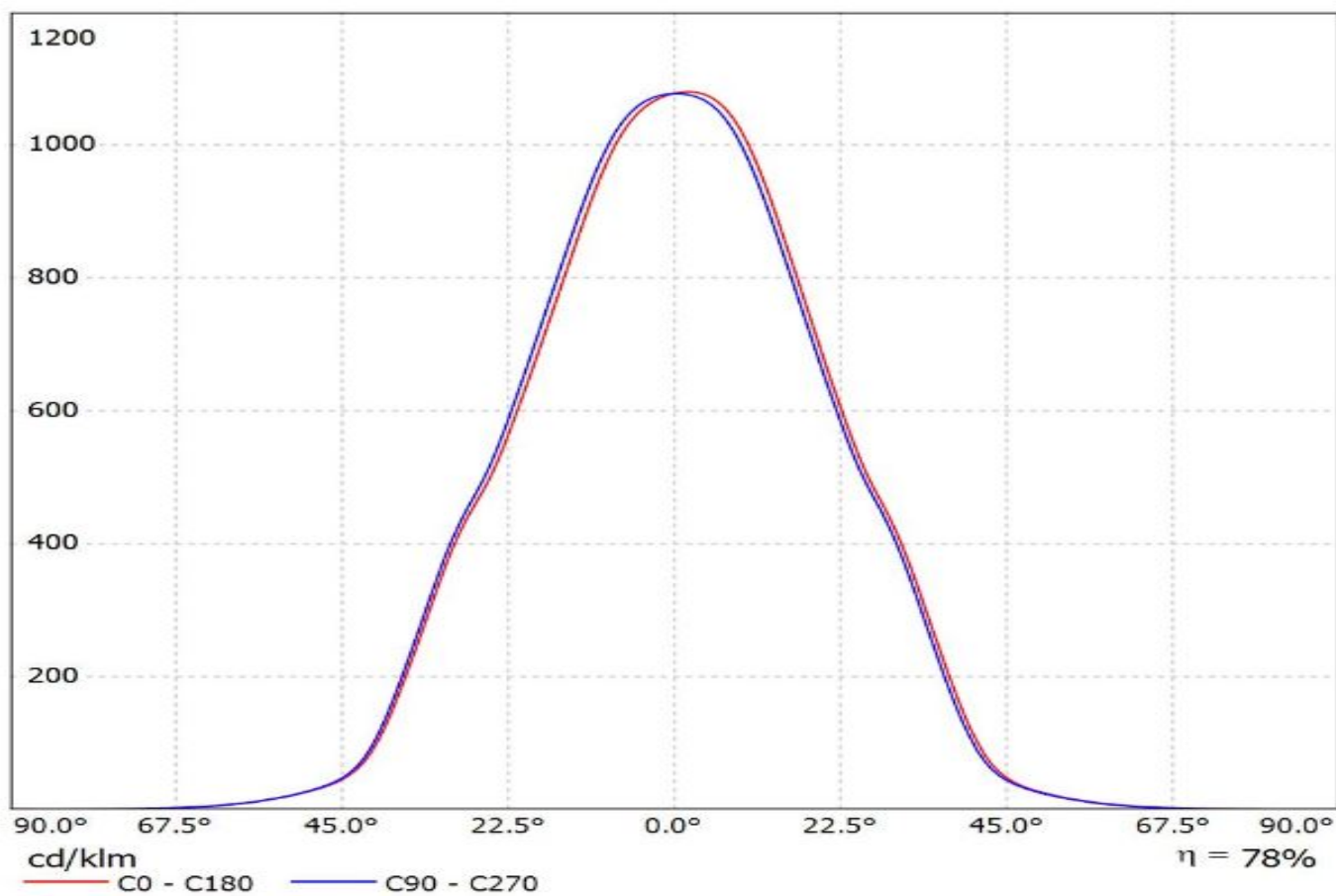


Luminaire: LEDiL Oy FCN13704_ANGELA-W_(VERO29) Eff.82.3%
Lamps: 1 x VERO29_(BXRC-50C10K0-L-04)_1388.09lm@250mA_CCT=1399K_P=8.60286W_I=249.8mA

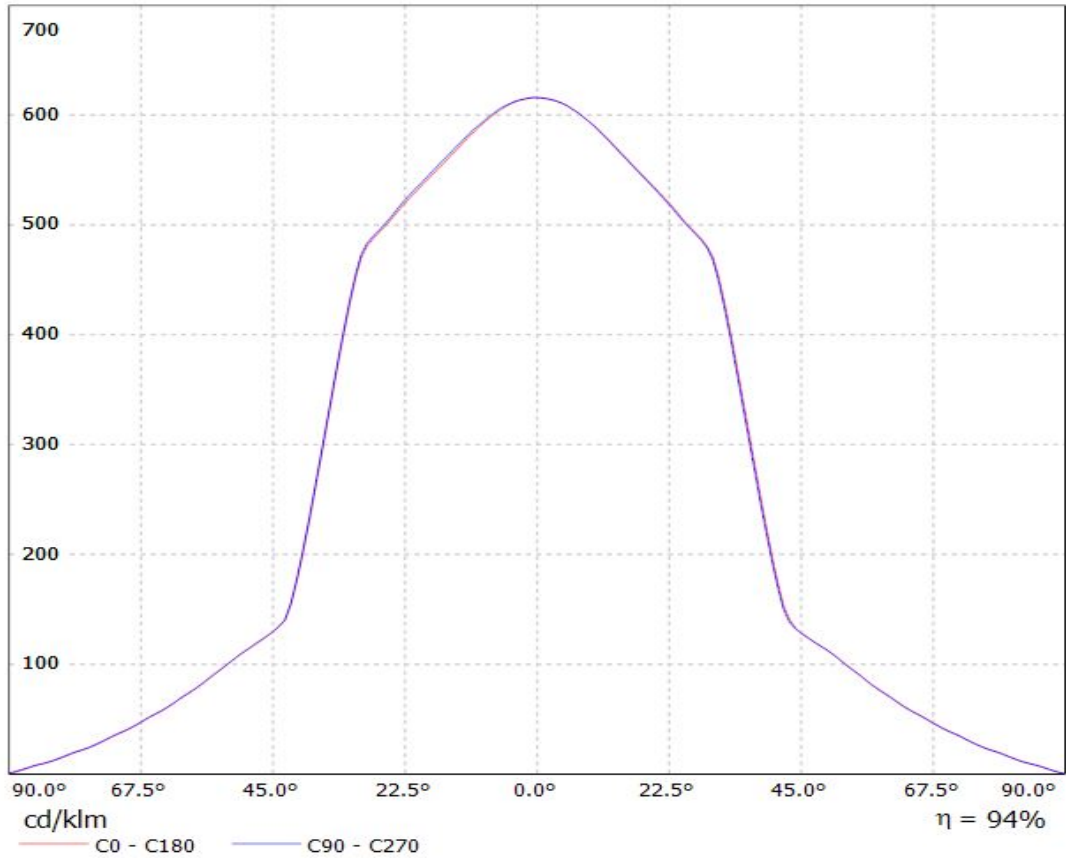


Luminaire: Ledil FCN14818_ANGELA-RZ-W_(Vero29)

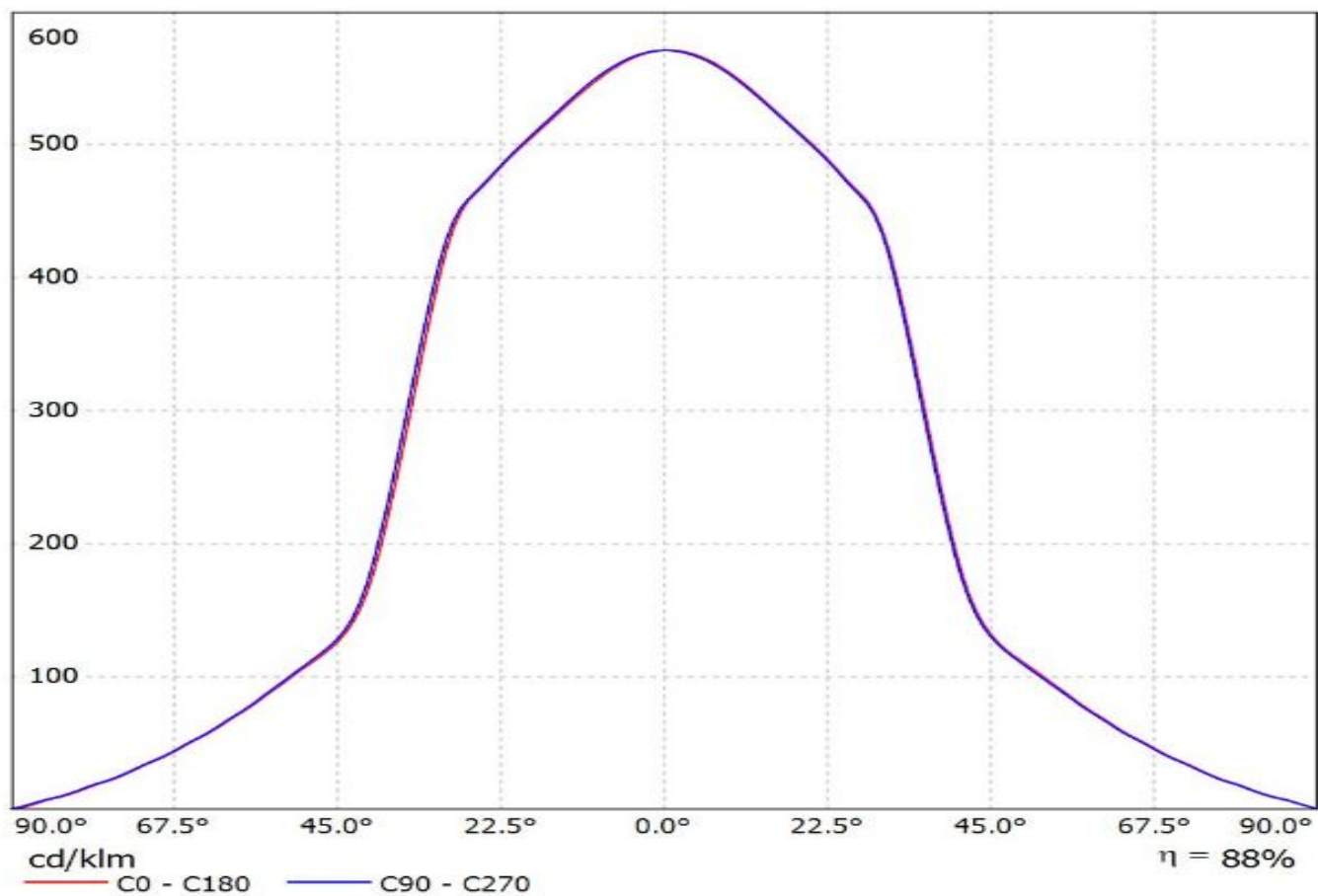
Lamps: 1 x Bridgelux_Vero29_(BXRC-50C10K0-L04)_1417.64lm@250mA_CCT=4900K_P=8.7133W_I=0.25A



Luminaire: LEDiL Oy FCN14691_ANGELA-XW_(VERO29)
Lamps: 1 x Bridgelux_VERO29_(30-E10K0L_Y2)_+C13584_CLAMP-VERO29_540.943lm@100mA_CCT=3000K_P=3.39549W_I=0.1A

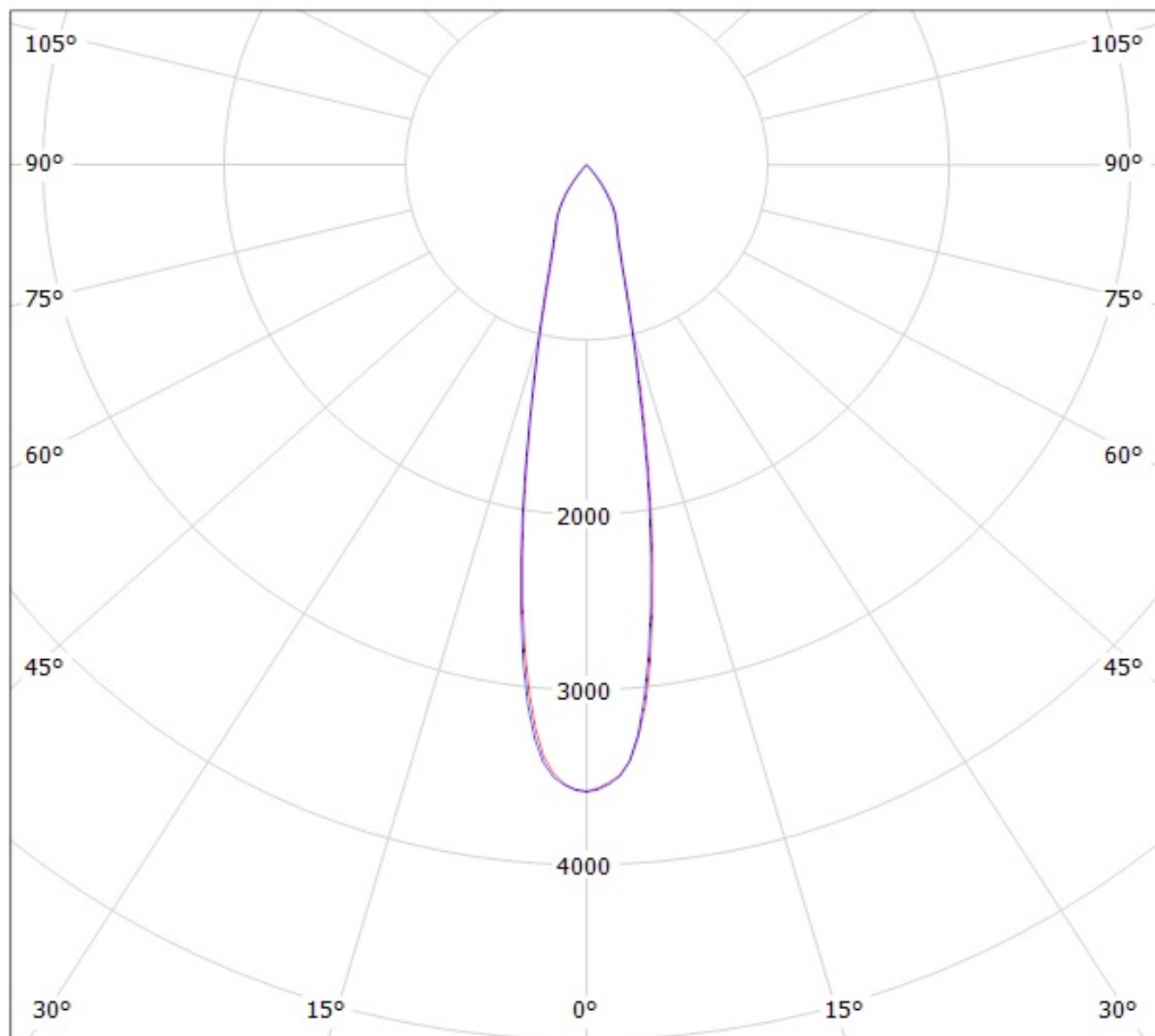


Luminaire: Ledil FCN14819_ANGELA-RZ-XW_(Vero29)
Lamps: 1 x Bridgelux_Vero29_(BXRC-50C10K0-L04)_1417.64lm@250mA_CCT=4900K_P=8.7133W_I=0.25A



Luminaire: LEDil Oy FCN14652_ANGELA-S_(VERO29)

Lamps: 1 x Bridgelux VERO29 (BXRC-50C10K0-L-04) 1336.38lm @ 250mA CCT=4900K P=8.7W I=250mA



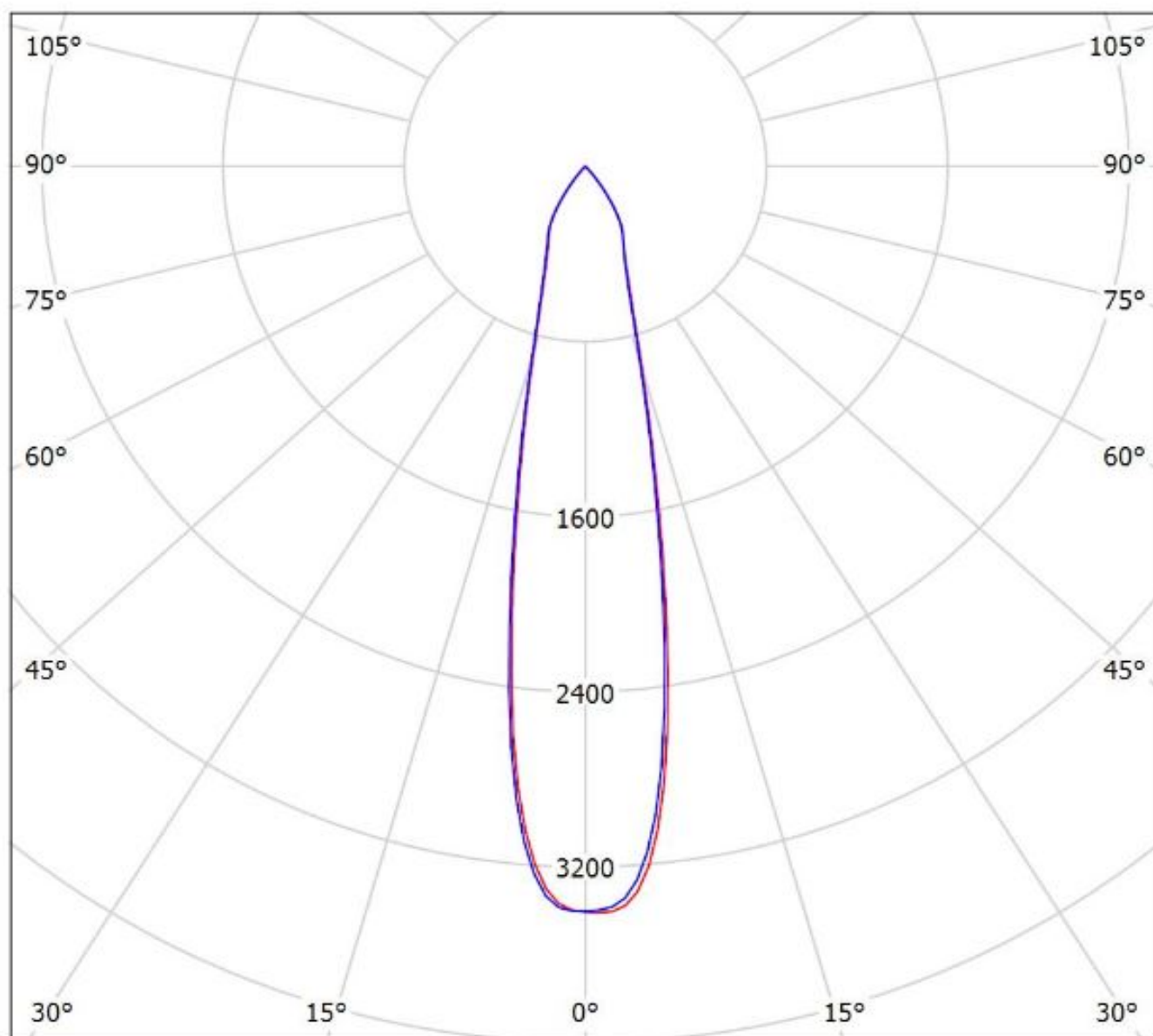
cd/klm

— C0 - C180

— C90 - C270

Luminaire: Ledil FCN14815_ANGELA-RZ-S_(Vero29)

Lamps: 1 x Bridgelux_Vero29_(BXRC-50C10K0-L04)_1417.64lm@250mA_CCT=4900K_P=8.7133W_I=0.25A



cd/klm

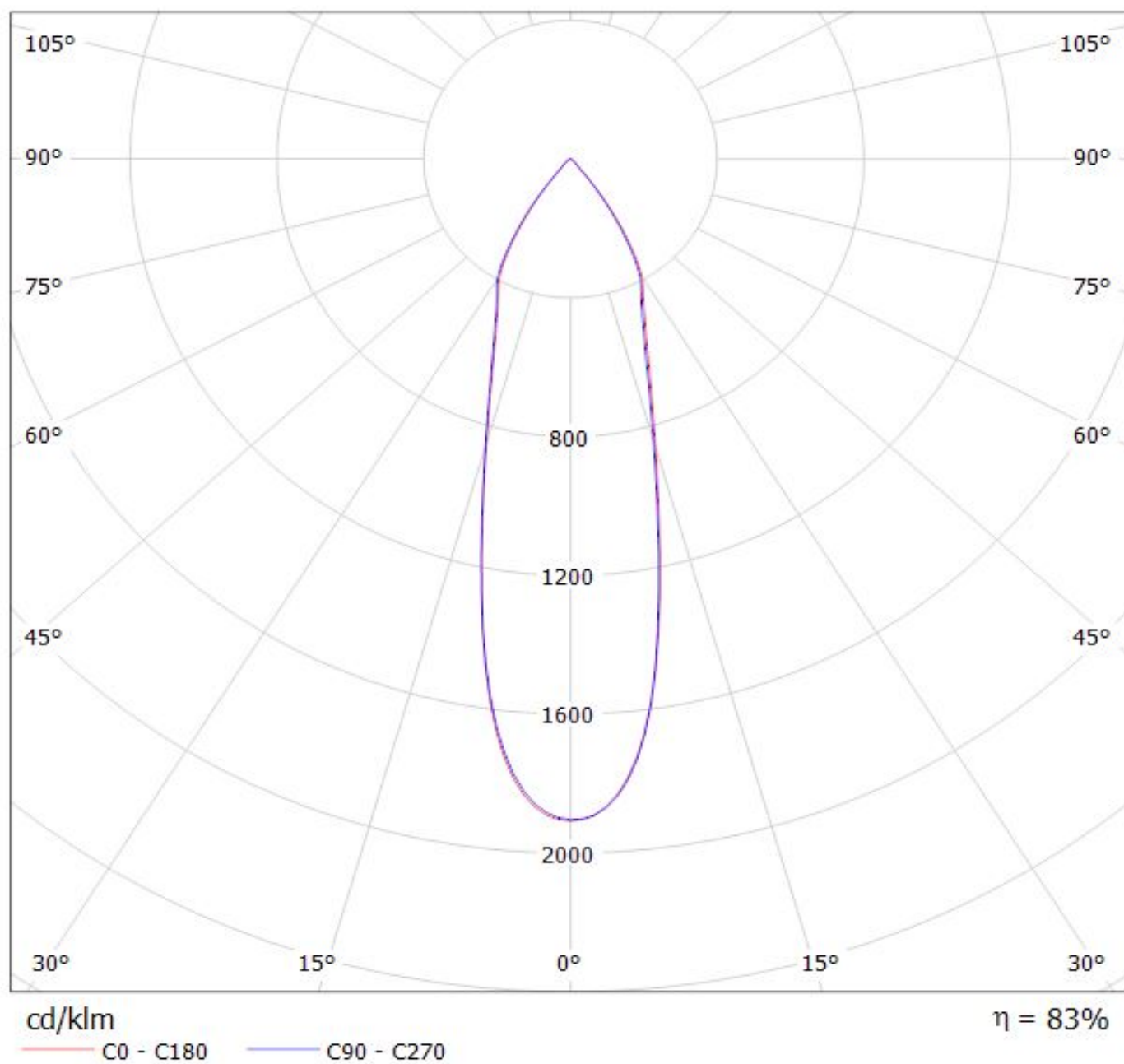
— C0 - C180

— C90 - C270

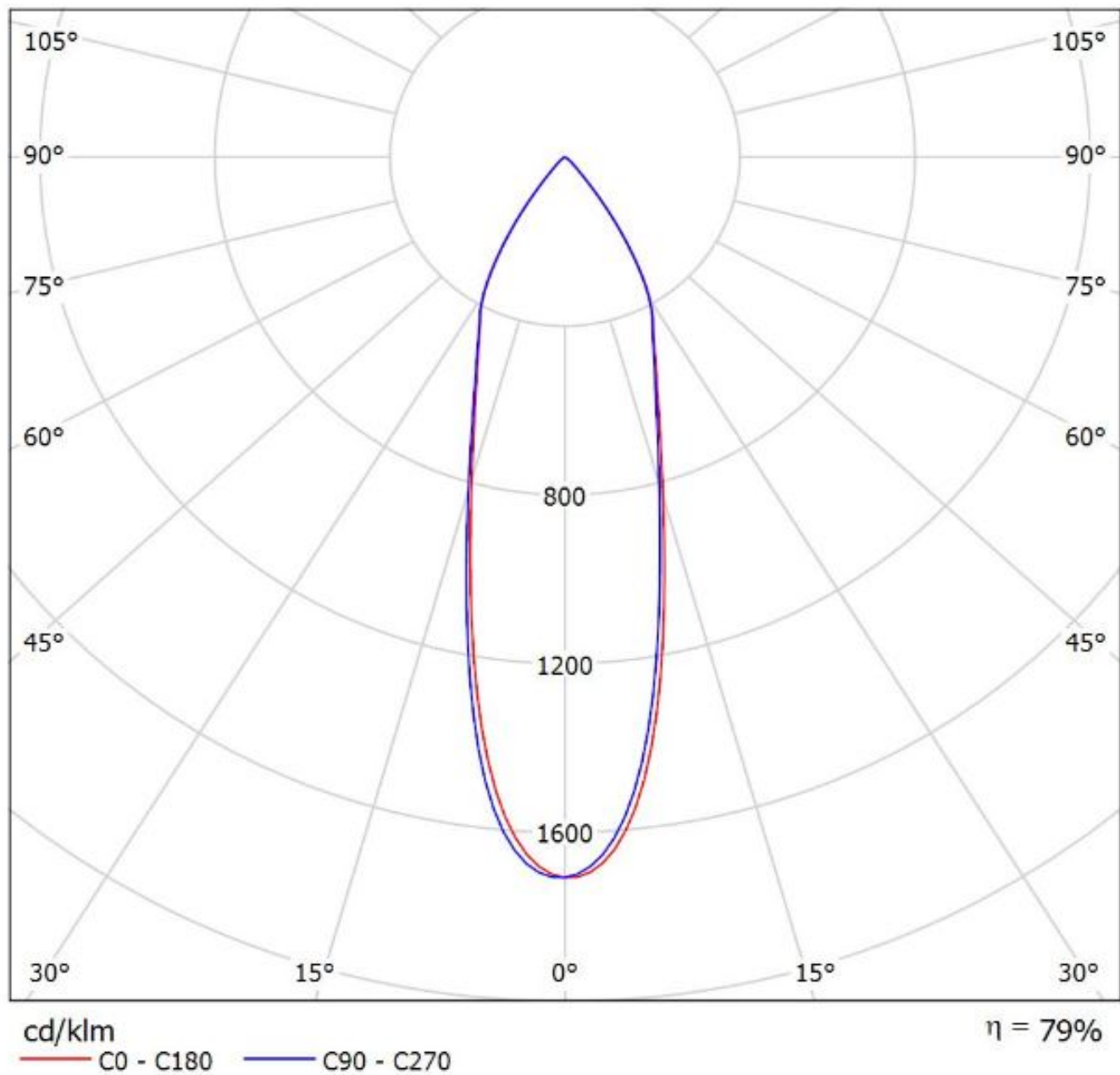
$\eta = 85\%$

Luminaire: LEDiL Oy FCN13698_ANGELA-M_(VERO29) Eff.83.2%

Lamps: 1 x VERO29_(BXRC-50C10K0-L-04)_1388.09lm@250mA_CCT=1399K_P=8.60286W_I=249.8mA

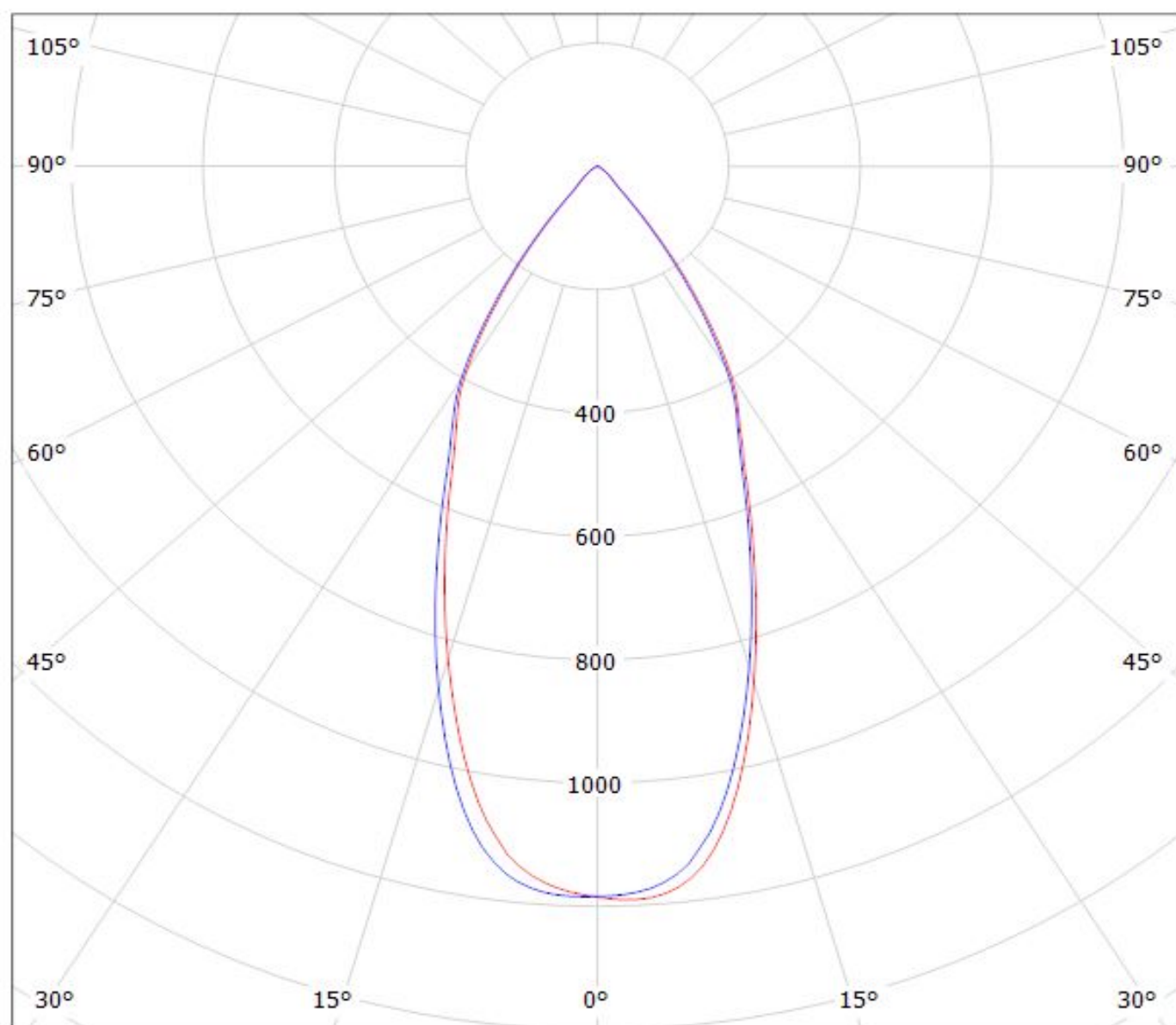


Luminaire: Ledil FCN14817_ANGELA-RZ-M_(Vero29)
Lamps: 1 x Bridgelux_Vero29_(BXRC-50C10K0-L04)_1417.64lm@250mA_CCT=4900K_P=8.7133W_I=0.25A



Luminaire: LEDiL Oy FCN13704_ANGELA-W_(VERO29) Eff.82.3%

Lamps: 1 x VERO29_(BXRC-50C10K0-L-04)_1388.09lm@250mA_CCT=1399K_P=8.60286W_I=249.8mA



cd/klm

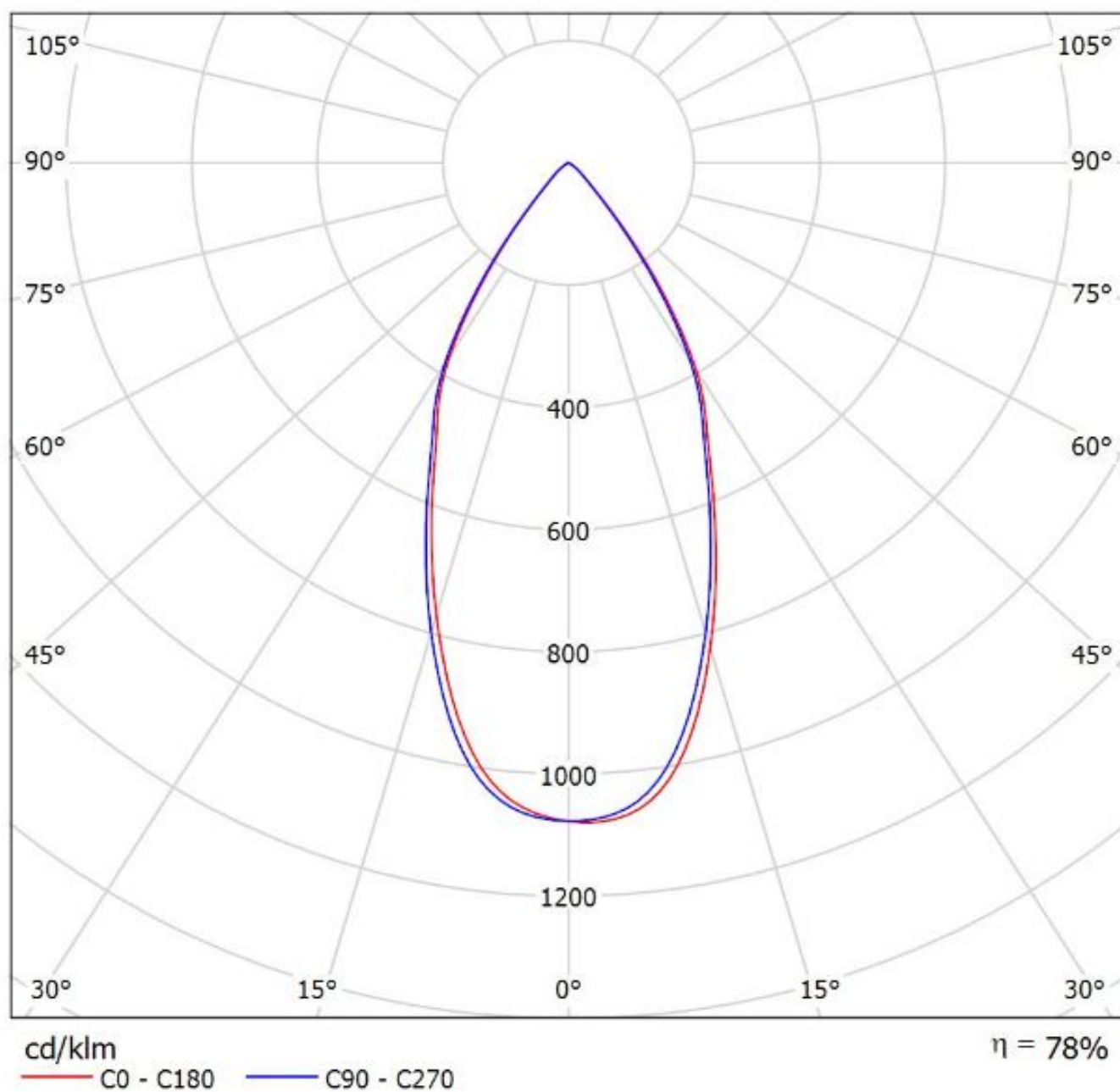
— C0 - C180

— C90 - C270

$\eta = 82\%$

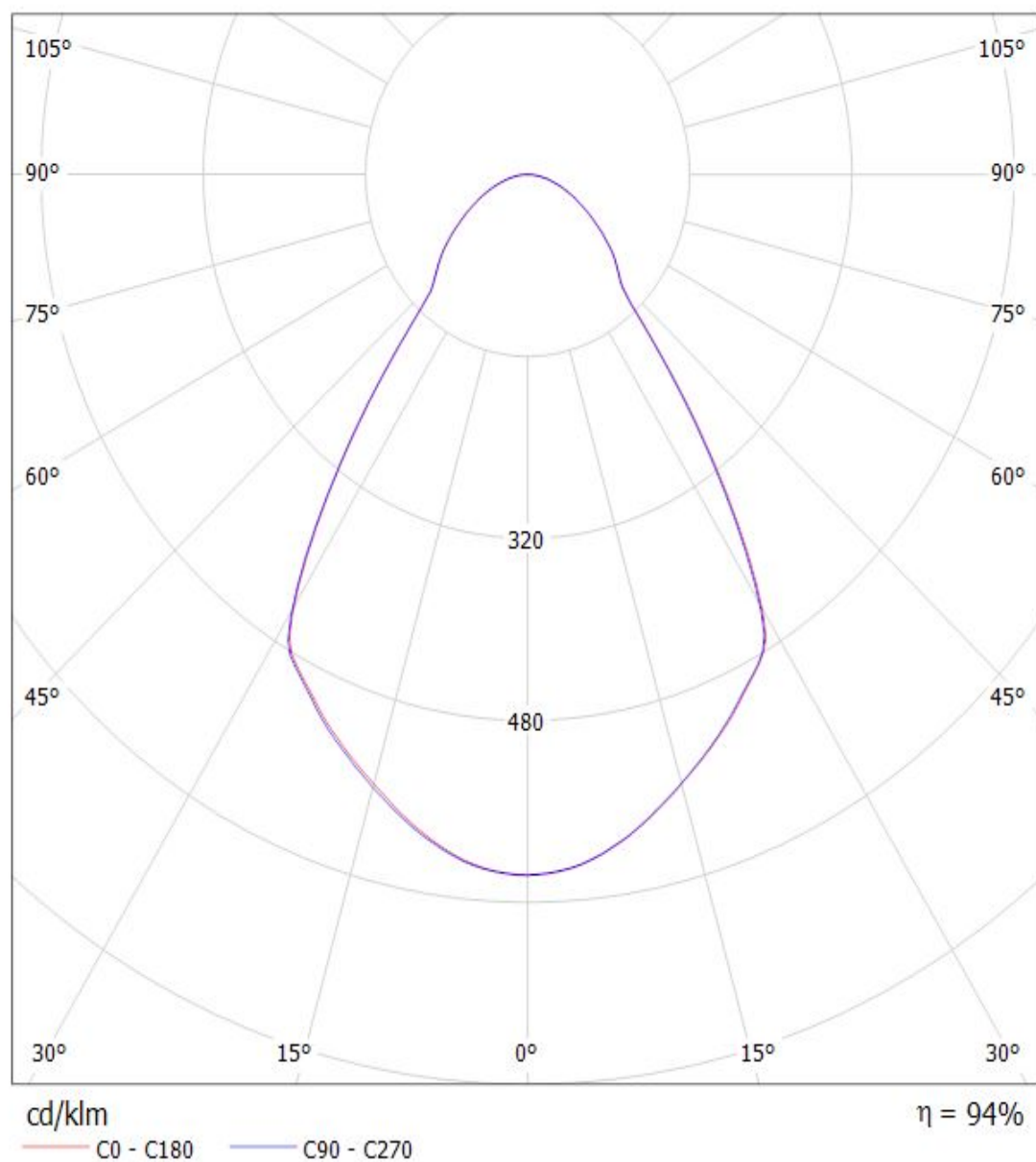
Luminaire: Ledil FCN14818_ANGELA-RZ-W_(Vero29)

Lamps: 1 x Bridgelux_Vero29_(BXR-50C10K0-L04)_1417.64lm@250mA_CCT=4900K_P=8.7133W_I=0.25A



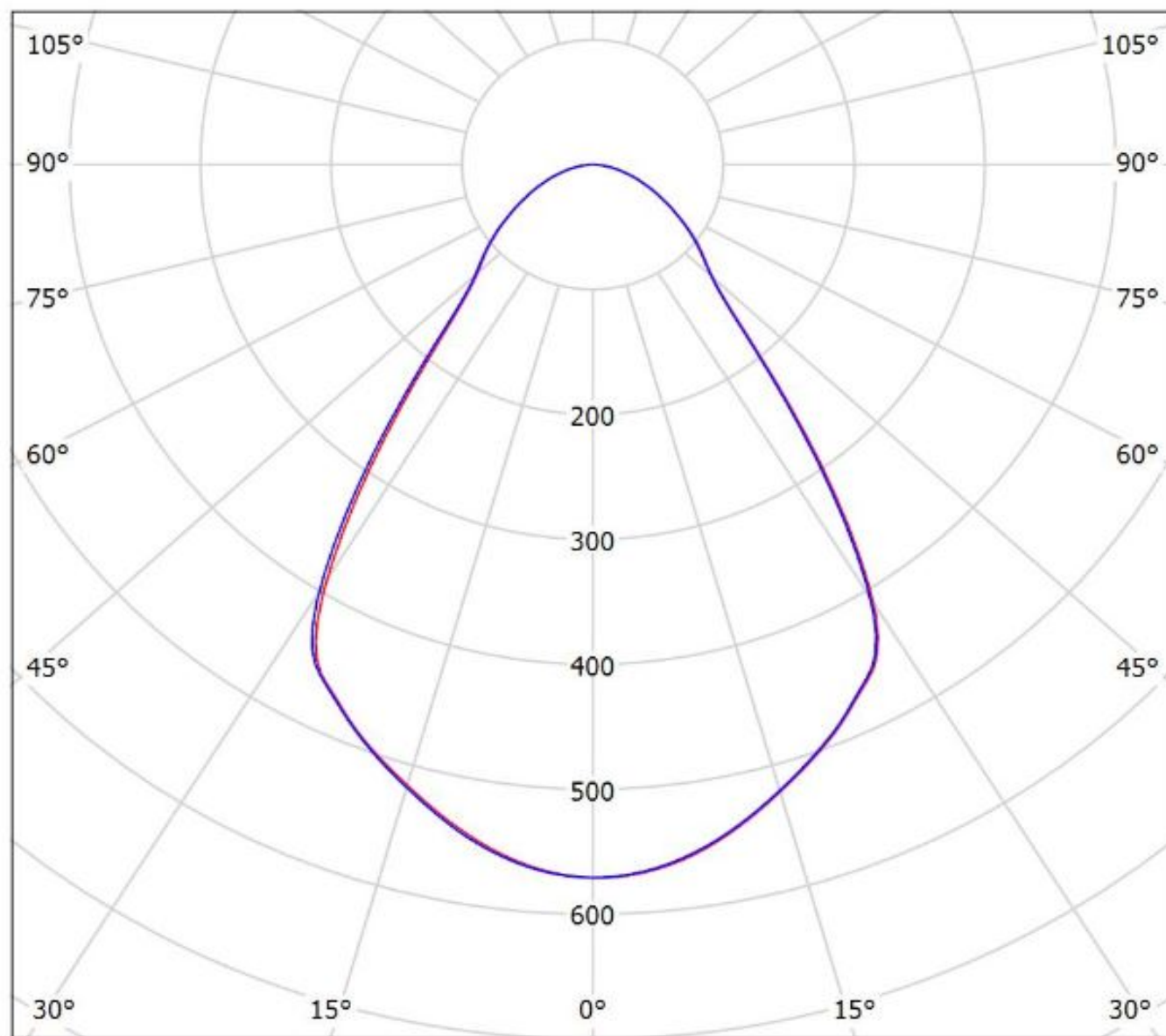
Luminaire: LEDiL Oy FCN14691_ANGELA-XW_(VERO29)

Lamps: 1 x Bridgelux_VERO29_(30-E10K0L_Y2)_+C13584_CLAMP-VERO29_540.943lm@100mA_CCT=3000K_P=3.39549W_I=0.1A



Luminaire: Ledil FCN14819_ANGELA-RZ-XW_(Vero29)

Lamps: 1 x Bridgelux_Vero29_(BXRC-50C10K0-L04)_1417.64lm@250mA_CCT=4900K_P=8.7133W_I=0.25A



cd/klm

— C0 - C180

— C90 - C270

$\eta = 88\%$