Product number   **CN13158_LENA-WAS**

Family	Lena	FWHM	Asymmetric degrees
Type	RefPack	Efficiency	84 %
LED	CL-L340	cd/lm	1.170
Color	Metal	Gerber File	Available
Diameter	111 mm		
Height	38.7 mm		
Style	Round		
Optic Material	-		
Holder Material	-		
Fastening	["socket"]		
Status	Production ready		

Reflector twist-and-locks into included base part that holds COB in place. Base part is attached into heat sink with screws.

Product number   **CN13168_LENA-WAS-DL**

Family	Lena	FWHM	Asymmetric degrees
Type	RefPack	Efficiency	73 %
LED	CL-L340	cd/lm	0.900
Color	Metal	Gerber File	Available
Diameter	111 mm		
Height	-		
Style	Round		
Optic Material	PC		
Holder Material	-		
Fastening	["socket"]		
Status	Production ready		

Reflector twist-and-locks into included base part that holds COB in place. Base part is attached into heat sink with screws.

Product number   **CN12367_LENA-FRESNEL**

Family	Lena	FWHM	8 degrees
Type	RefPack	Efficiency	36 %
LED	CL-L340	cd/lm	9.600
Color	Black	Gerber File	Available
Diameter	111 mm		
Height	87.7 mm		
Style	Round		
Optic Material	PC		
Holder Material	-		
Fastening	["screw", "socket"]		
Status	Production ready		

Product number   **CN12101_LENA-S**

Family	Lena	FWHM	11 degrees
Type	RefPack	Efficiency	84 %
LED	CL-L340	cd/lm	10.100
Color	Metal	Gerber File	Available
Diameter	111 mm		
Height	86.1 mm		
Style	Round		
Optic Material	-		
Holder Material	-		
Fastening	["screw"]		
Status	Production ready		

PRODUCT DATASHEET
Lena series
last update 23/2/2014

Product number   **CN12112_LENA-S-DL**

Family	Lena	FWHM	14 degrees
Type	RefPack	Efficiency	79 %
LED	CL-L340	cd/lm	8.000
Color	Metal	Gerber File	Available
Diameter	111 mm		
Height	87.7 mm		
Style	Round		
Optic Material	PC		
Holder Material	-		
Fastening	["screw"]		
Status	Production ready		

Product number   **CN12161_LENA-M**

Family	Lena	FWHM	22 degrees
Type	RefPack	Efficiency	83 %
LED	CL-L340	cd/lm	4.700
Color	Metal	Gerber File	Available
Diameter	111 mm		
Height	86.1 mm		
Style	Round		
Optic Material	-		
Holder Material	-		
Fastening	-		
Status	Production ready		

Product number   **CN12113_LENA-W-DL**

Family	Lena	FWHM	45 degrees
Type	RefPack	Efficiency	75 %
LED	CL-L340	cd/lm	1.400
Color	Metal	Gerber File	Available
Diameter	111 mm		
Height	87.7 mm		
Style	Round		
Optic Material	PC		
Holder Material	-		
Fastening	["screw"]		
Status	Production 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.

Luminaire: LEDiL Oy CN13158_LENA-WAS_(CL-L340) Eff.83.7%
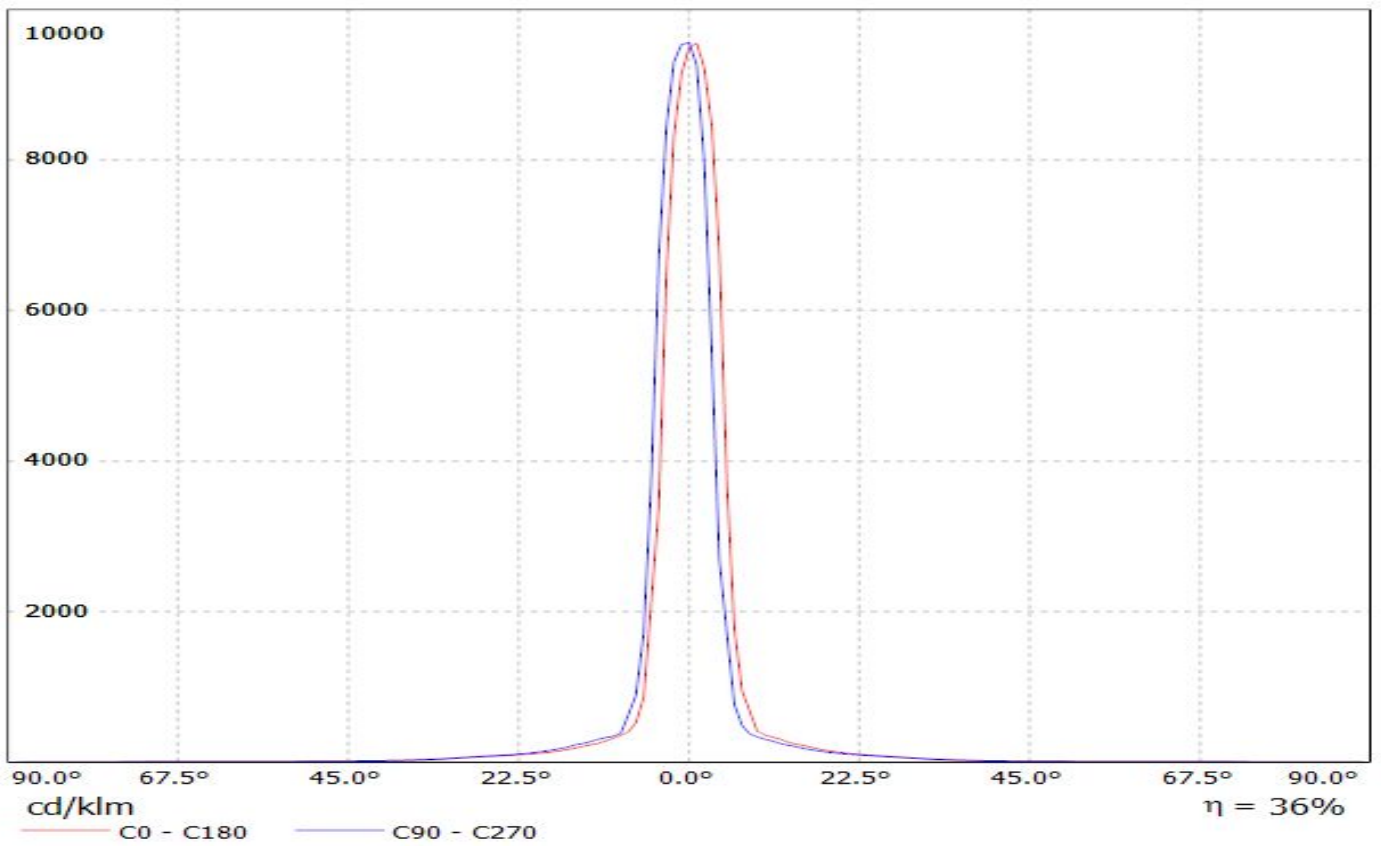Lamps: 1 x CL-L340 (929.39lm@250mA)
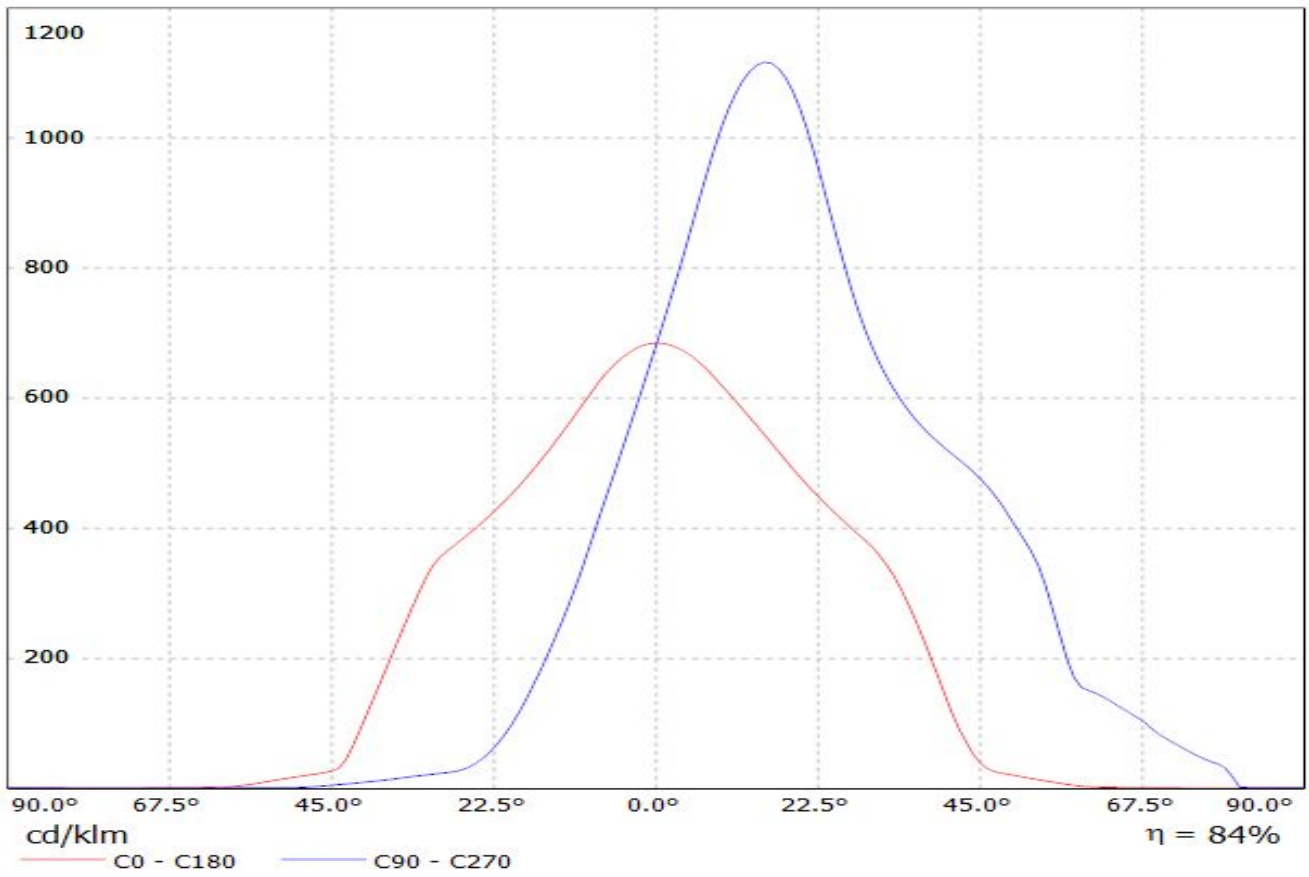
cd/klm

η = 84%

C0 - C180   C90 - C270

Luminaire: LEDiL Oy CN13168_LENA-WAS-DL_(CL-L340) Eff.79.2%
Lamps: 1 x CL-L340 (929.39lm@250mA)
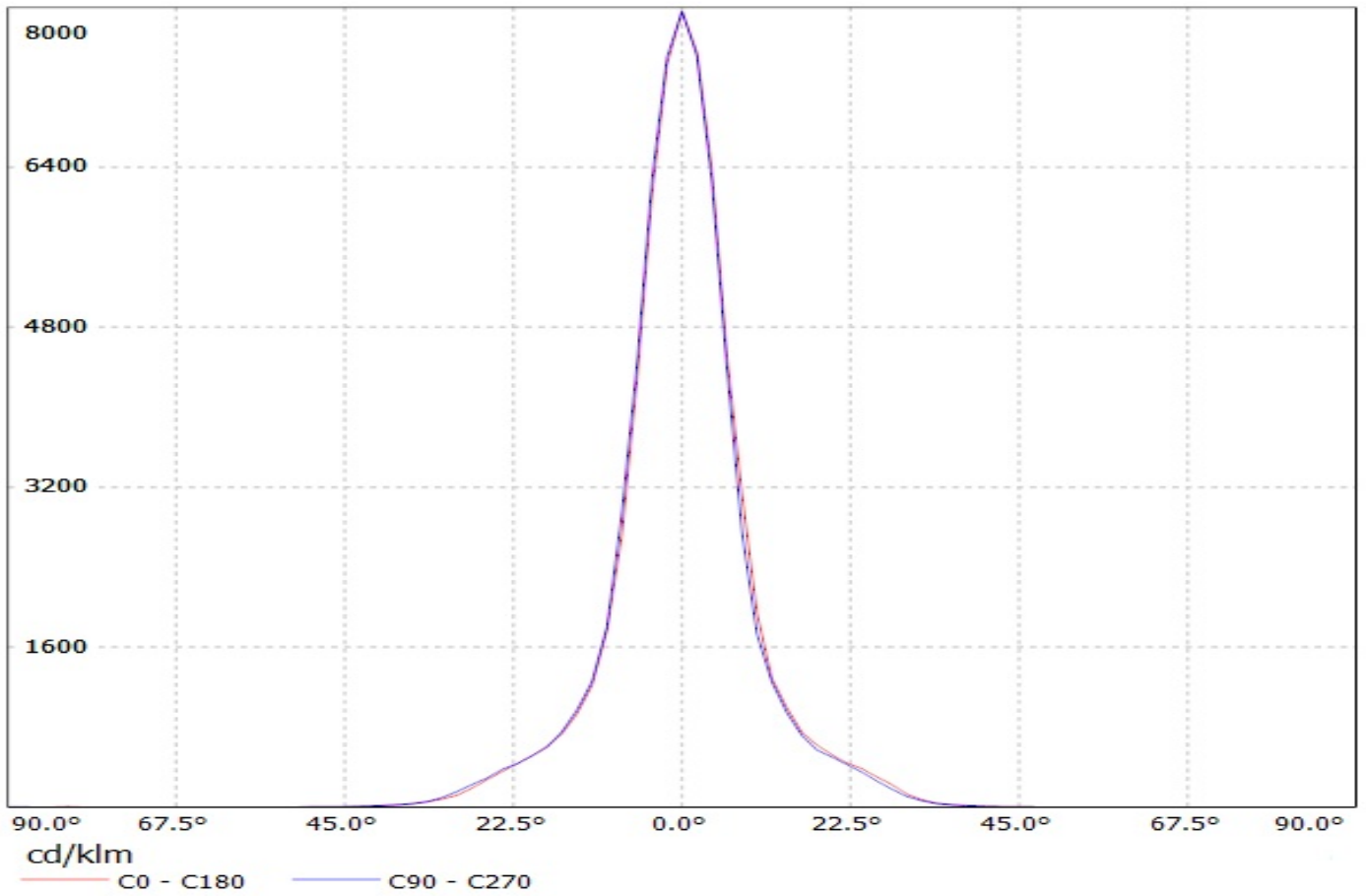

cd/klm

η = 79%

C0 - C180   C90 - C270
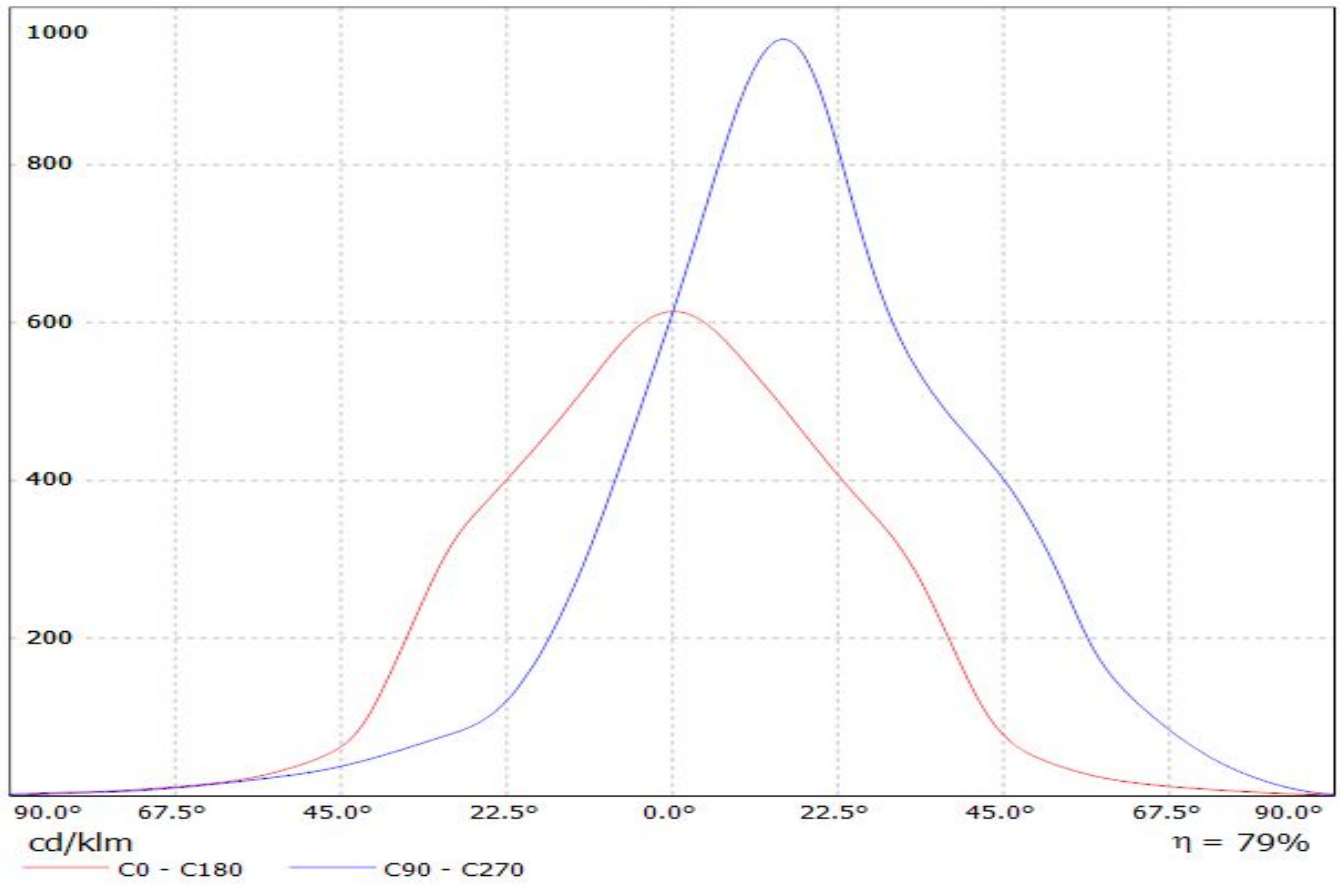
LEDiL Oy CN12367_LENA-FRESNEL-CL-L340 Eff.36.1% / LDC (Linear)

Luminaire: LEDiL Oy CN12367_LENA-FRESNEL-CL-L340 Eff.36.1%
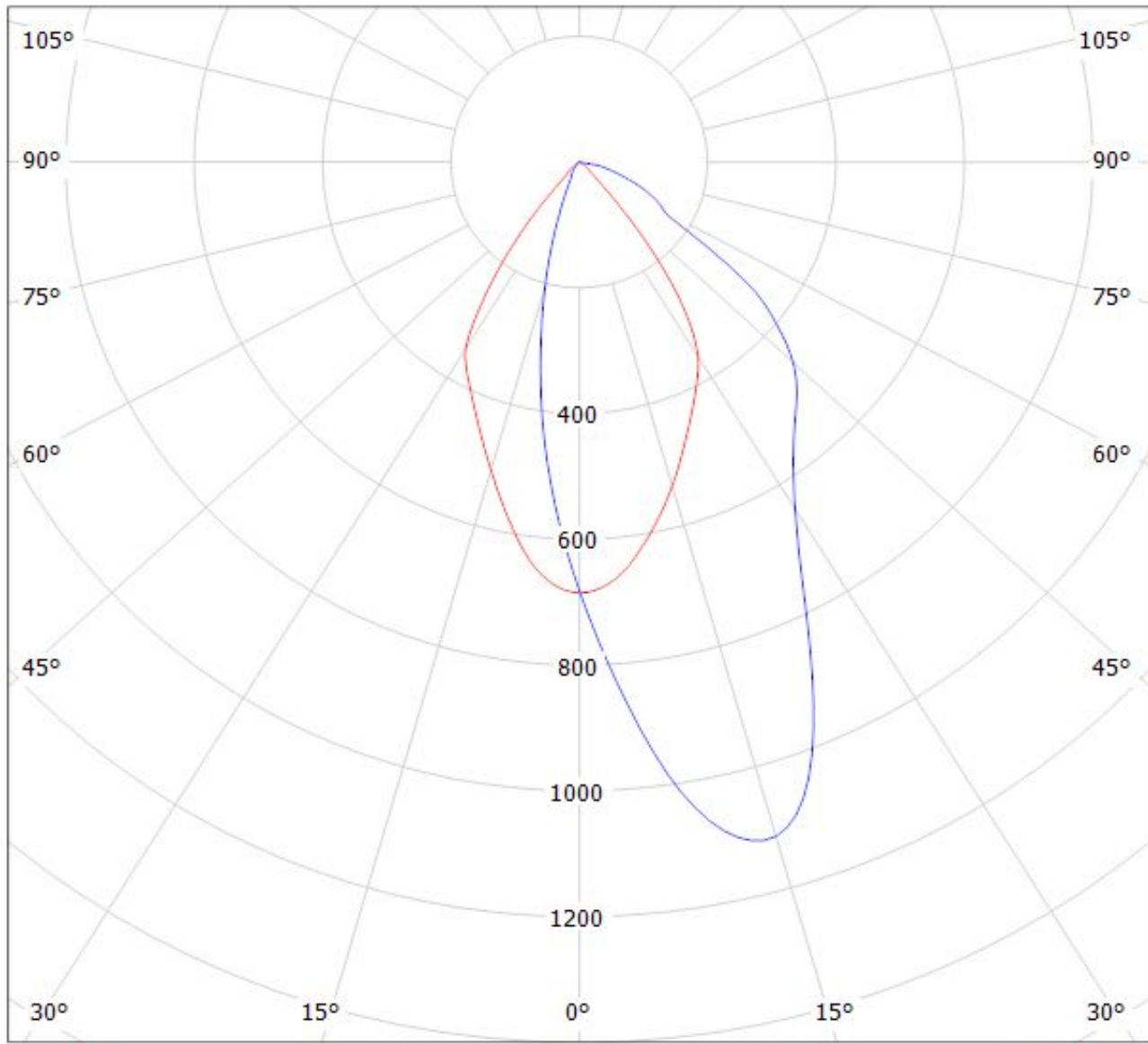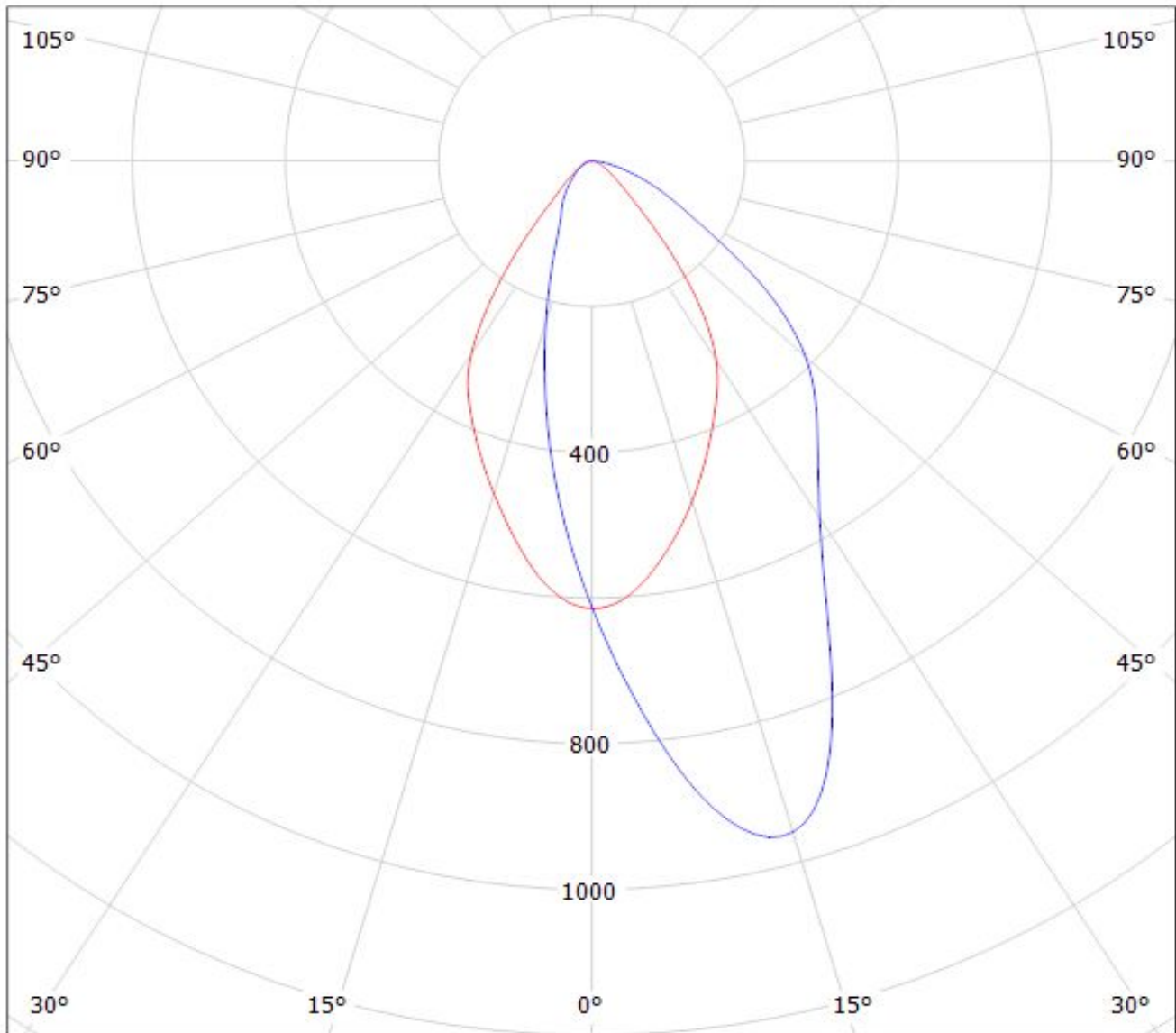Lamps: 1 x Citizen CL-340 (1151.01lm@250mA)

cd/klm

η = 36%

C0 - C180   C90 - C270

Luminaire: Ledil Oy CN12112_LENA-S-DL (Citizen CL-L340 1393lm @ 250mA) Efficiency=79%
Lamps: 1 x Citizen CL-L340 1393lm @ 250mA

cd/klm

C0 - C180   C90 - C270

Luminaire: Ledil Oy CN12113_LENA-W-DL (Citizen CL-L340 1393lm @ 250mA) Efficiency=75%
Lamps: 1 x Citizen CL-L340 1393lm @ 250mA

cd/klm

C0 - C180   C90 - C270

Luminaire: LEDiL Oy CN13158_LENA-WAS_(CL-L340) Eff.83.7%
Lamps: 1 x CL-L340 (929.39lm@250mA)

cd/klm

η = 84%

C0 - C180   C90 - C270

Luminaire: LEDiL Oy CN13168_LENA-WAS-DL_(CL-L340) Eff.79.2%
Lamps: 1 x CL-L340 (929.39lm@250mA)

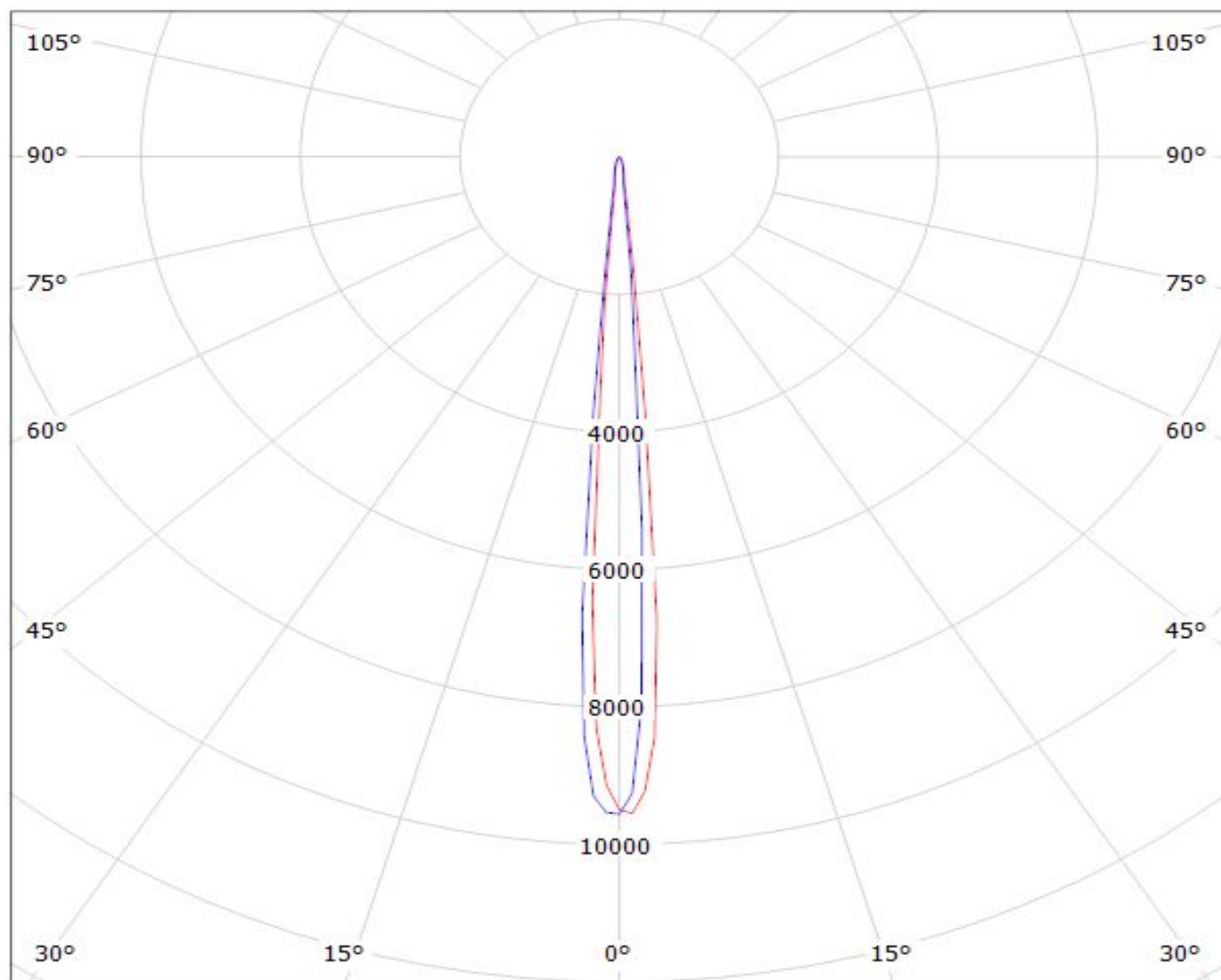
cd/klm

η = 79%
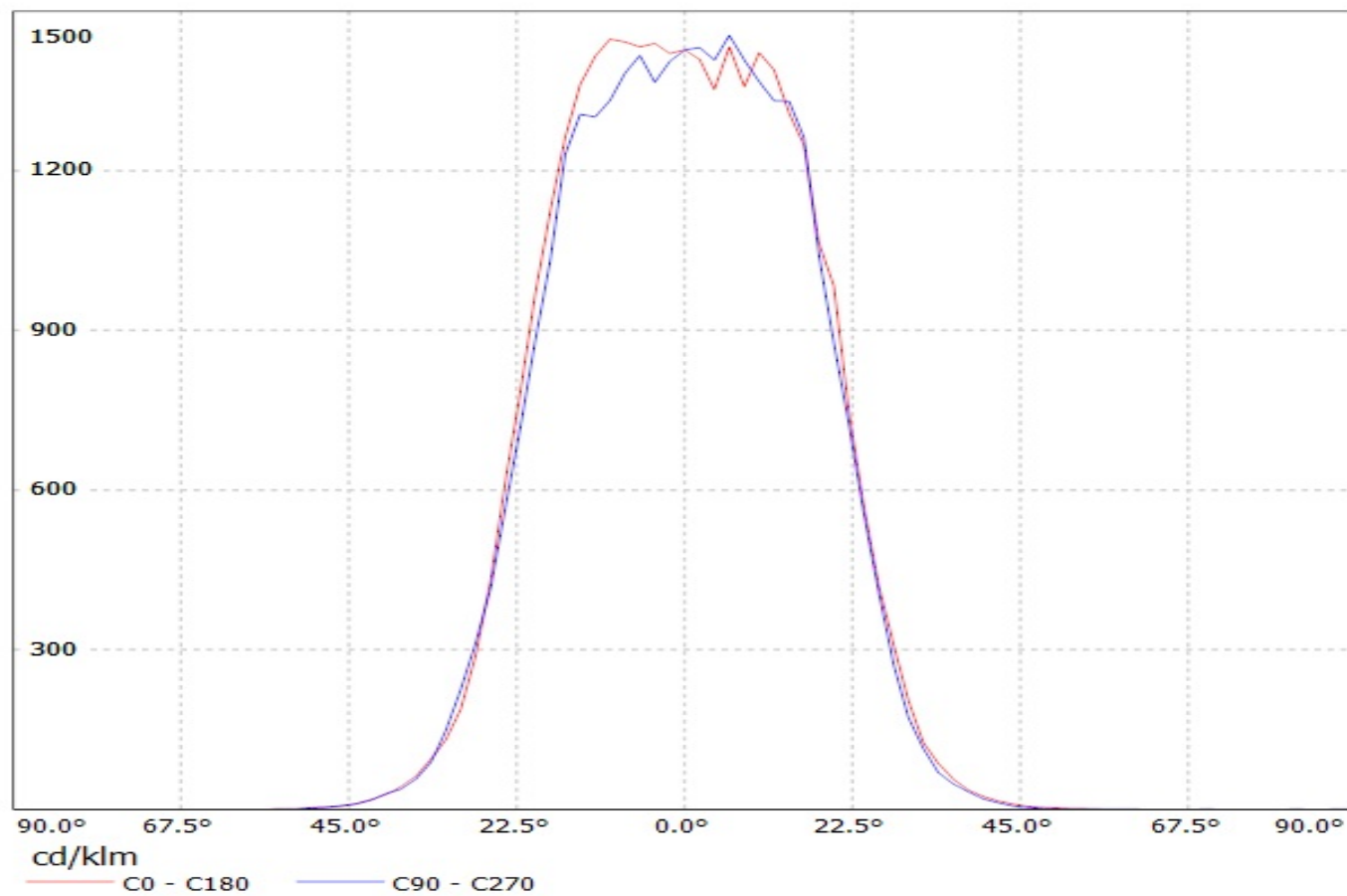
C0 - C180   C90 - C270

LEDiL Oy CN12367_LENA-FRESNEL-CL-L340 Eff.36.1% / LDC (Polar)

Luminaire: LEDiL Oy CN12367_LENA-FRESNEL-CL-L340 Eff.36.1%
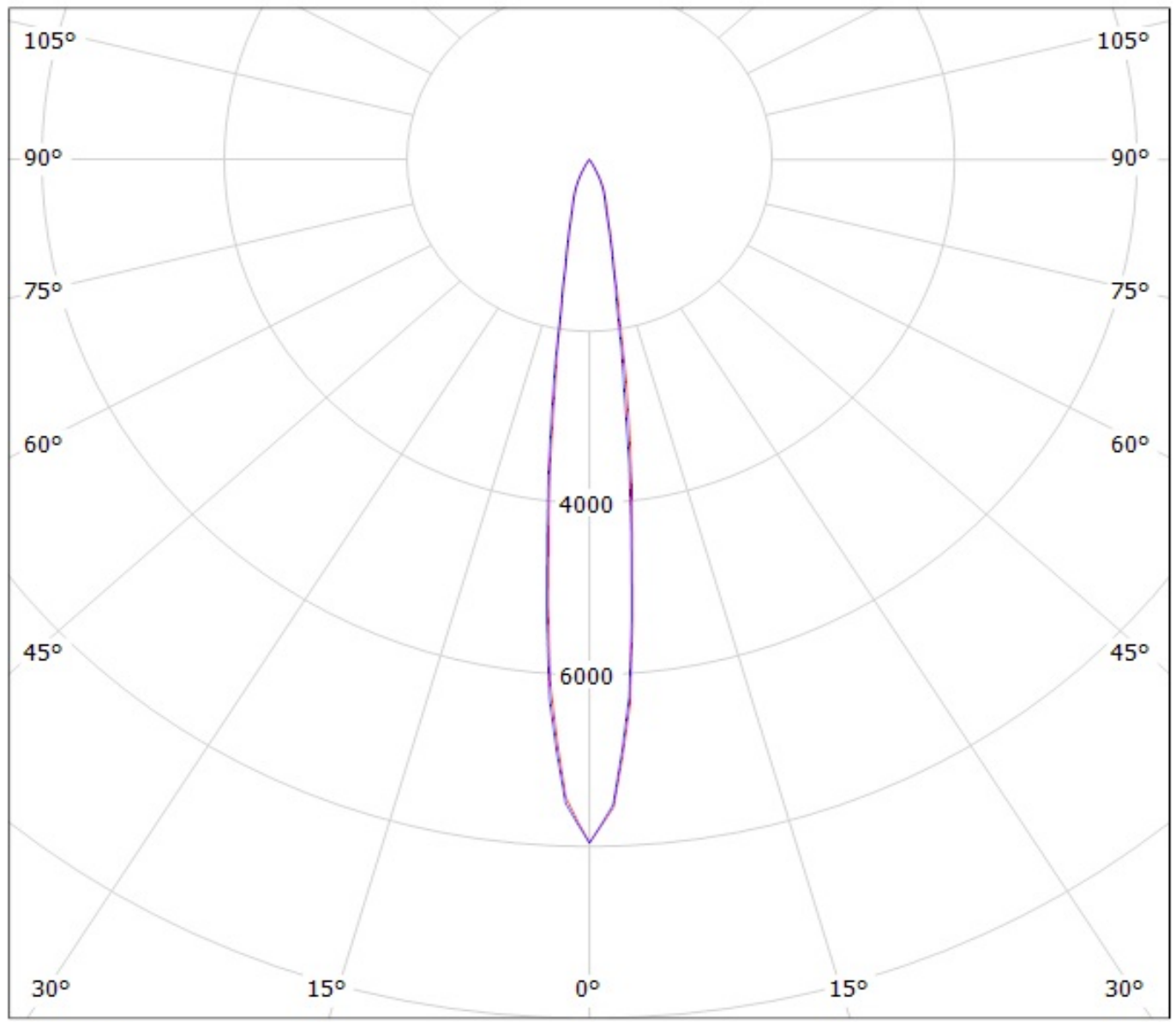Lamps: 1 x Citizen CL-340 (1151.01lm@250mA)

cd/klm

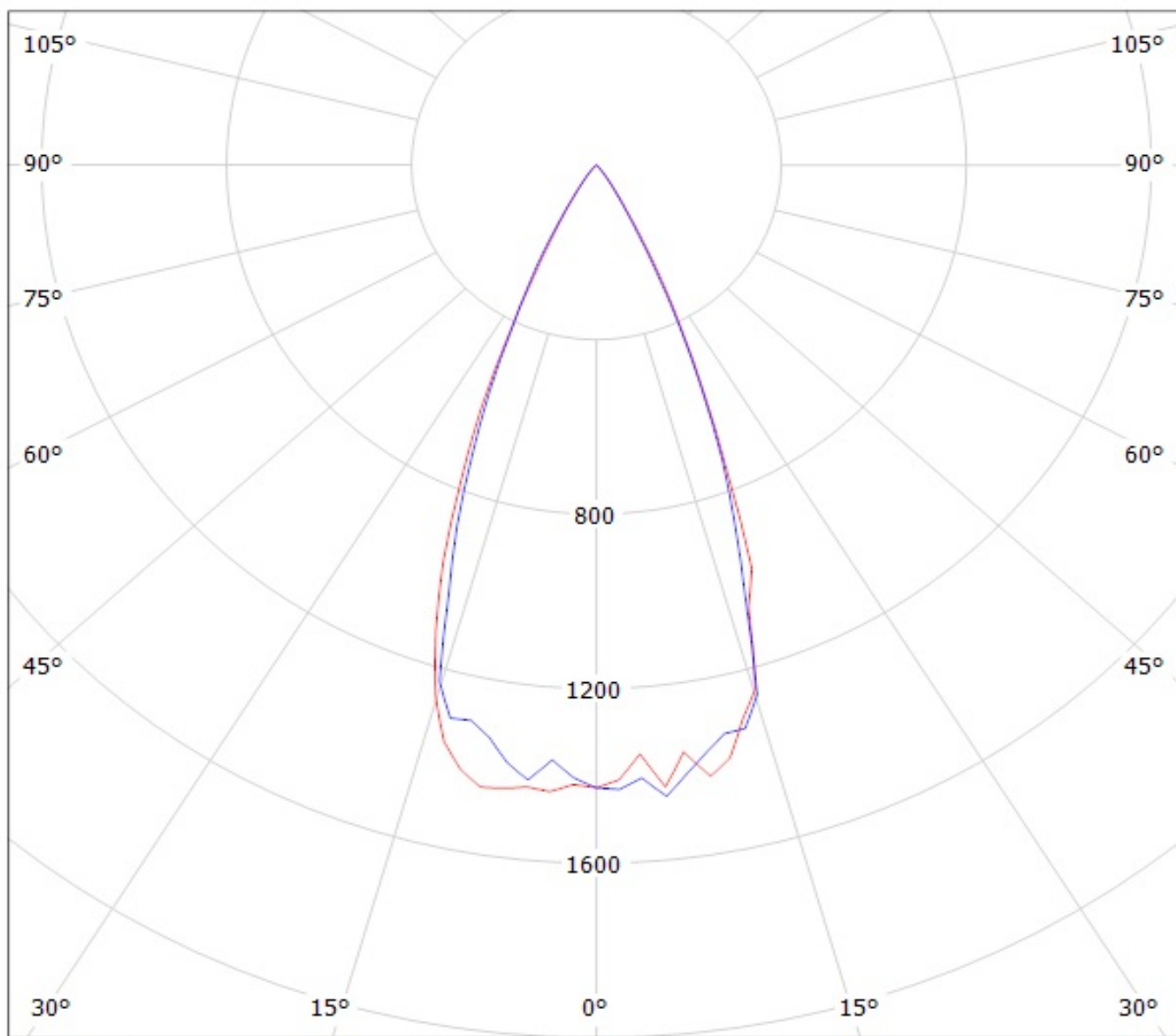|	C0 - C180		C90 - C270

η = 36%

Luminaire: Ledil Oy CN12112_LENA-S-DL (Citizen CL-L340 1393lm @ 250mA) Efficiency=79%
Lamps: 1 x Citizen CL-L340 1393lm @ 250mA

cd/klm

—— C0 - C180   —— C90 - C270

Luminaire: Ledil Oy CN12113_LENA-W-DL (Citizen CL-L340 1393lm @ 250mA) Efficiency=75%
Lamps: 1 x Citizen CL-L340 1393lm @ 250mA

cd/klm

— C0 - C180   — C90 - C270