

**Product number CN13918_MIRELLA-50-S-PF-VERO13**

Family	Mirella	FWHM	24 degrees
Type	RefPack	Efficiency	81 %
LED	L121A/L060B/L024Z	cd/Im	2.500
Color	Metal	Gerber File	Available
Diameter	49.9 mm		
Height	24 mm		
Style	Round		
Optic Material	PC		
Holder Material	-		
Fastening	-		
Status	On production		

Product number CN14214_MIRELLA-50-S-CL-PF-VERO13

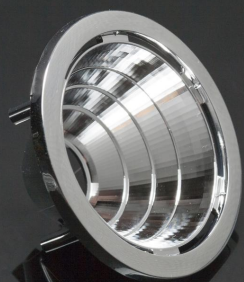
Family	Mirella	FWHM	24 degrees
Type	RefPack	Efficiency	78 %
LED	L121A/L060B/L024Z	cd/Im	2.400
Color	White	Gerber File	Available
Diameter	49.9 mm		
Height	23.96 mm		
Style	Round		
Optic Material	PC		
Holder Material	-		
Fastening	-		
Status	On production		

Product number C13085_MIRELLA-50-S-PF

Family	Mirella	FWHM	25 degrees
Type	Reflector	Efficiency	83 %
LED	L121A/L060B/L024Z	cd/Im	2.500
Color	Metal	Gerber File	Available
Diameter	49.9 mm		
Height	24 mm		
Style	Round		
Optic Material	PC		
Holder Material	-		
Fastening	Socket		
Status	On production		

Product number CN14213_MIRELLA-50-S-DL-PF-VERO13

Family	Mirella	FWHM	30 degrees
Type	RefPack	Efficiency	76 %
LED	L121A/L060B/L024Z	cd/Im	1.700
Color	White	Gerber File	Available
Diameter	49.9 mm		
Height	23.96 mm		
Style	Round		
Optic Material	-		
Holder Material	PC		
Fastening	-		
Status	On production		

**Product number C13086_MIRELLA-50-M-PF**

Family	Mirella	FWHM	31 degrees
Type	Reflector	Efficiency	86 %
LED	L121A/L060B/L024Z	cd/Im	2.000
Color	Metal	Gerber File	Available
Diameter	49.9 mm		
Height	24 mm		
Style	Round		
Optic Material	PC		
Holder Material	-		
Fastening	Socket		
Status	On production		

Product number CN13920_MIRELLA-50-M-PF-VERO13

Family	Mirella	FWHM	31 degrees
Type	RefPack	Efficiency	81 %
LED	L121A/L060B/L024Z	cd/Im	1.900
Color	Metal	Gerber File	Available
Diameter	49.9 mm		
Height	24 mm		
Style	Round		
Optic Material	PC		
Holder Material	-		
Fastening	-		
Status	On production		

Product number CN14216_MIRELLA-50-M-CL-PF-VERO13

Family	Mirella	FWHM	33 degrees
Type	RefPack	Efficiency	77 %
LED	L121A/L060B/L024Z	cd/Im	1.700
Color	White	Gerber File	Available
Diameter	49.9 mm		
Height	23.96 mm		
Style	Round		
Optic Material	PC		
Holder Material	-		
Fastening	-		
Status	On production		

Product number CN14215_MIRELLA-50-M-DL-PF-VERO13

Family	Mirella	FWHM	37 degrees
Type	RefPack	Efficiency	76 %
LED	L121A/L060B/L024Z	cd/Im	1.400
Color	White	Gerber File	Available
Diameter	49.9 mm		
Height	23.96 mm		
Style	Round		
Optic Material	PC		
Holder Material	PC		
Fastening	-		
Status	On production		

**Product number CN13923_MIRELLA-50-W-PF-VERO13**

Family	Mirella	FWHM	41 degrees
Type	RefPack	Efficiency	81 %
LED	L121A/L060B/L024Z	cd/Im	1.400
Color	Metal	Gerber File	Available
Diameter	49.9 mm		
Height	24 mm		
Style	Round		
Optic Material	PC		
Holder Material	-		
Fastening	-		
Status	On production		

Product number C13087_MIRELLA-50-W-PF

Family	Mirella	FWHM	43 degrees
Type	Reflector	Efficiency	86 %
LED	L121A/L060B/L024Z	cd/Im	1.400
Color	Metal	Gerber File	Available
Diameter	49.9 mm		
Height	24 mm		
Style	Round		
Optic Material	PC		
Holder Material	-		
Fastening	Socket		
Status	On production		

Product number CN14218_MIRELLA-50-W-CL-PF-VERO13

Family	Mirella	FWHM	45 degrees
Type	RefPack	Efficiency	77 %
LED	L121A/L060B/L024Z	cd/Im	1.200
Color	White	Gerber File	Available
Diameter	49.9 mm		
Height	23.96 mm		
Style	Round		
Optic Material	PC		
Holder Material	PC		
Fastening	-		
Status	On production		

Product number CN14217_MIRELLA-50-W-DL-PF-VERO13

Family	Mirella	FWHM	46 degrees
Type	RefPack	Efficiency	75 %
LED	L121A/L060B/L024Z	cd/Im	1.100
Color	White	Gerber File	Available
Diameter	49.9 mm		
Height	23.96 mm		
Style	Round		
Optic Material	PC		
Holder Material	PC		
Fastening	-		
Status	On production		

**Product number CN14212_MIRELLA-XW-DL-PF-VERO13**

Family	Mirella	FWHM	67 degrees
Type	RefPack	Efficiency	82 %
LED	L121A/L060B/L024Z	cd/Im	0.590
Color	White	Gerber File	Available
Diameter	49.9 mm		
Height	23.96 mm		
Style	Round		
Optic Material	PC		
Holder Material	-		
Fastening	-		
Status	On production		

Product number CN14211_MIRELLA-XW-CL-PF-VERO13

Family	Mirella	FWHM	69 degrees
Type	RefPack	Efficiency	83 %
LED	L121A/L060B/L024Z	cd/Im	0.610
Color	White	Gerber File	Available
Diameter	49.9 mm		
Height	23.96 mm		
Style	Round		
Optic Material	PC		
Holder Material	-		
Fastening	-		
Status	On production		

Product number CN14209_MIRELLA-XW-PF-VERO13

Family	Mirella	FWHM	73 degrees
Type	RefPack	Efficiency	88 %
LED	L121A/L060B/L024Z	cd/Im	0.610
Color	White	Gerber File	Available
Diameter	49.9 mm		
Height	25.2 mm		
Style	Round		
Optic Material	PC		
Holder Material	-		
Fastening	-		
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.



PRODUCT DATASHEET

Mirella series

last update 16/3/2015

GENERAL INFORMATION

- Product series especially designed & optimized for L121A/L060B/L024Z 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.

D

C

B

A

4

4

3

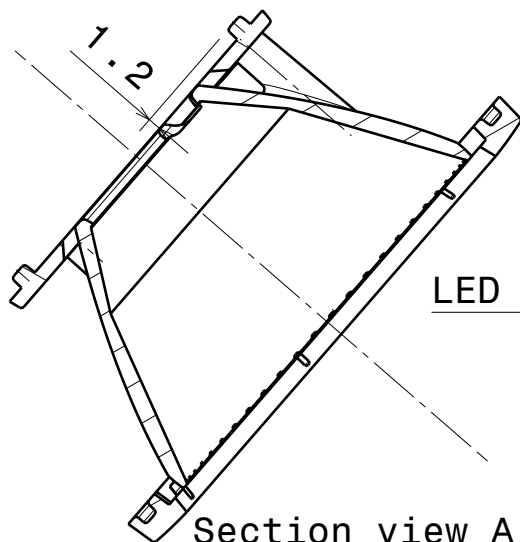
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2

2

1

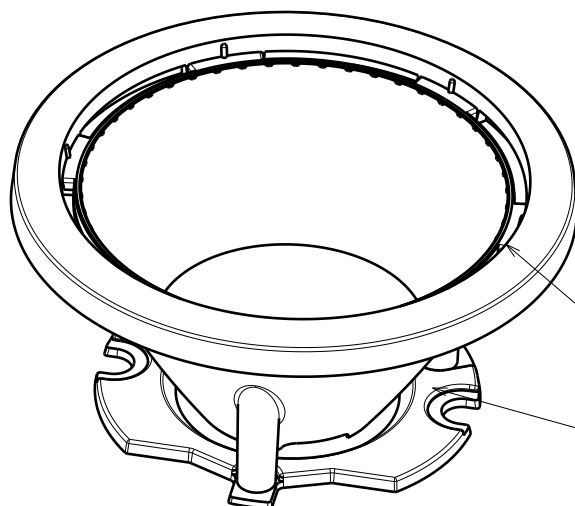
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LED position

Section view A-A
Scale: 3:2 $\phi 49.9$ $\phi 3.4$ $\phi 1.8$ $\phi 31.4$ C/C
 $\phi 29$

A

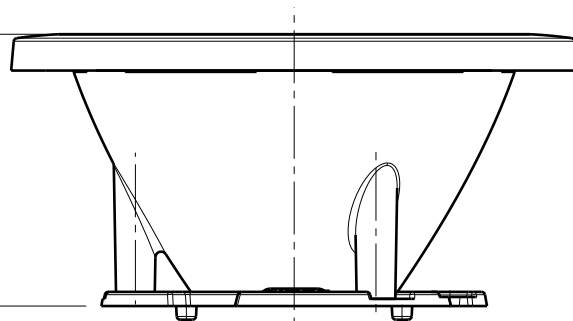


Reflector

Socket

Isometric view
Scale: 3:2

24

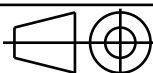
CN13918_MIRELLA-50-S-PF-VER013/18
CN13920_MIRELLA-50-M-PF-VER013/18
CN13923_MIRELLA-50-W-PF-VER013/18

Tolerances if not otherwise shown
According to DIN ISO 2768-1
Linear measures:
Up to 30mm class M, otherwise class C.
According to DIN ISO 2768-2
Form and position: class L

LEDiL

Ledil Oy
Salorankatu 10
FIN 24240 SALO
Finland

THIRD ANGLE PROJECTION:



DRAWING TITLE

MIRELLA-50-PF-VER013/18

This drawing is the property
of LEDiL Oy. It may not be
reproduced, copied or
communicated without a written
agreement with LEDiL Oy."

SIZE

A4

PART NUMBER

-

SCALE

3:2

WEIGHT

-

SHEET

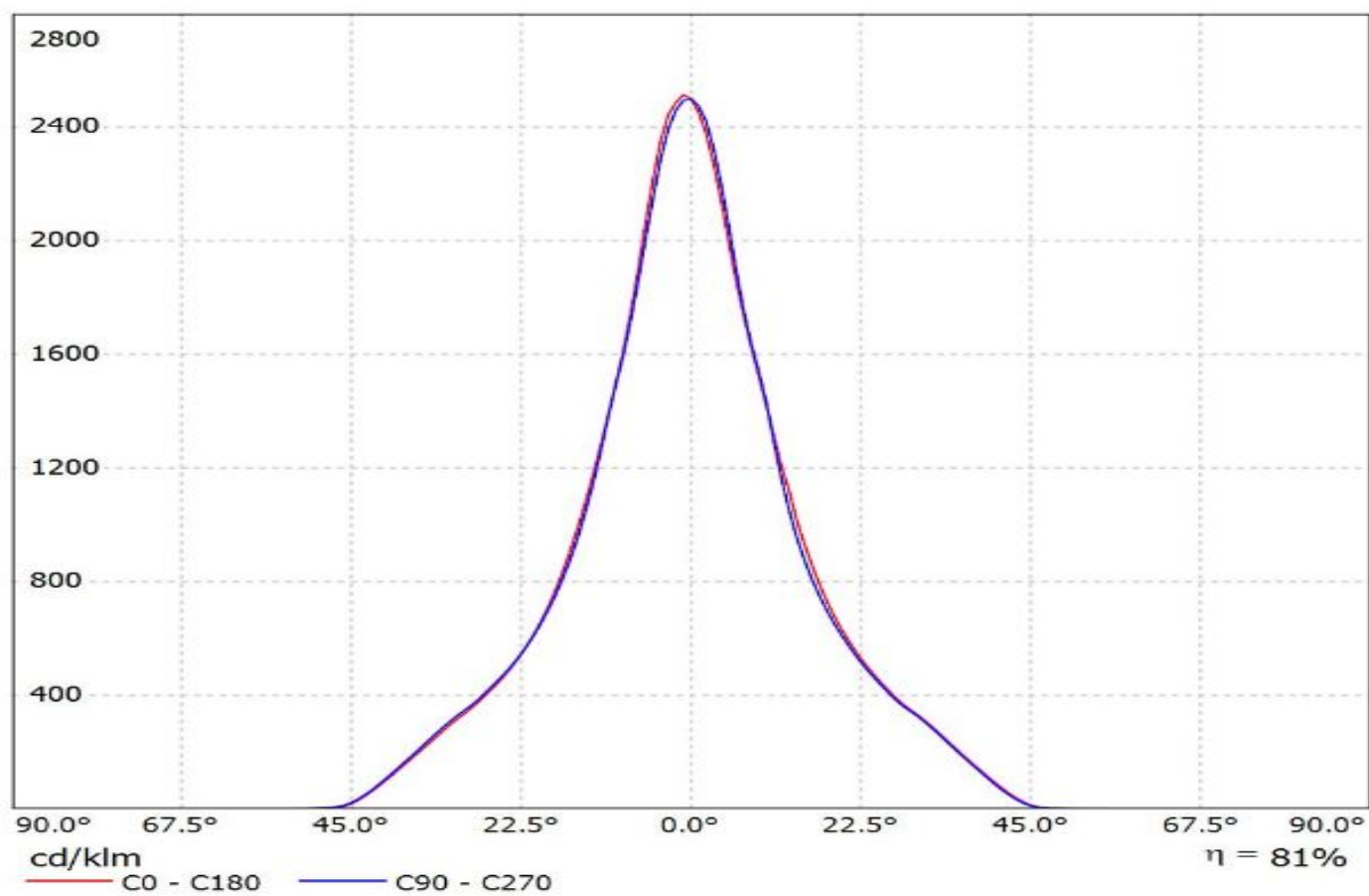
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D

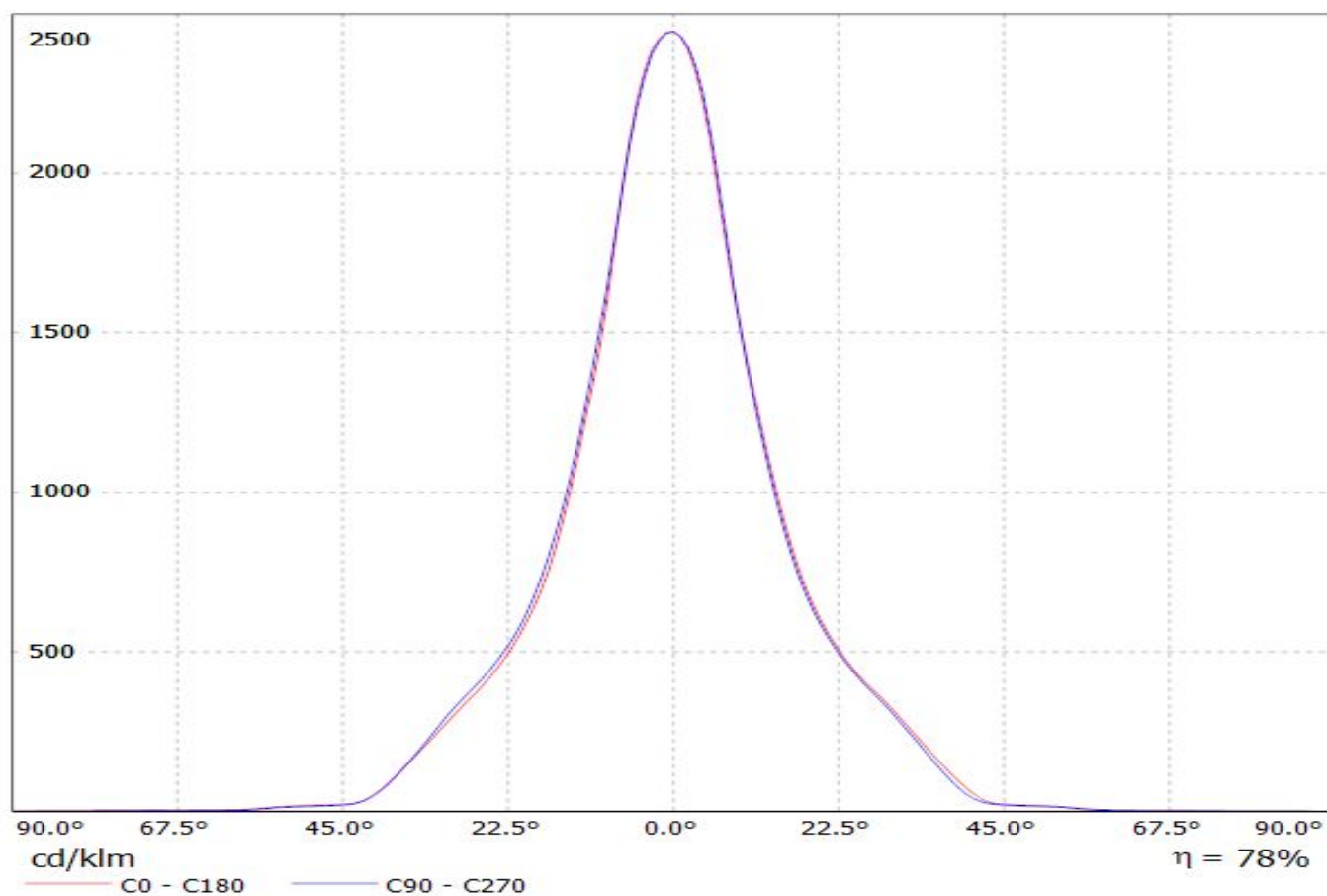
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Luminaire: Ledil CN13918_MIRELLA-50-S-PF-VERO13_(NFCLL060B)

Lamps: 1 x Nichia_NFCLL060B_(438 Typ L1)_1355.59lm@250mA_P=8.5W_I=0.25A

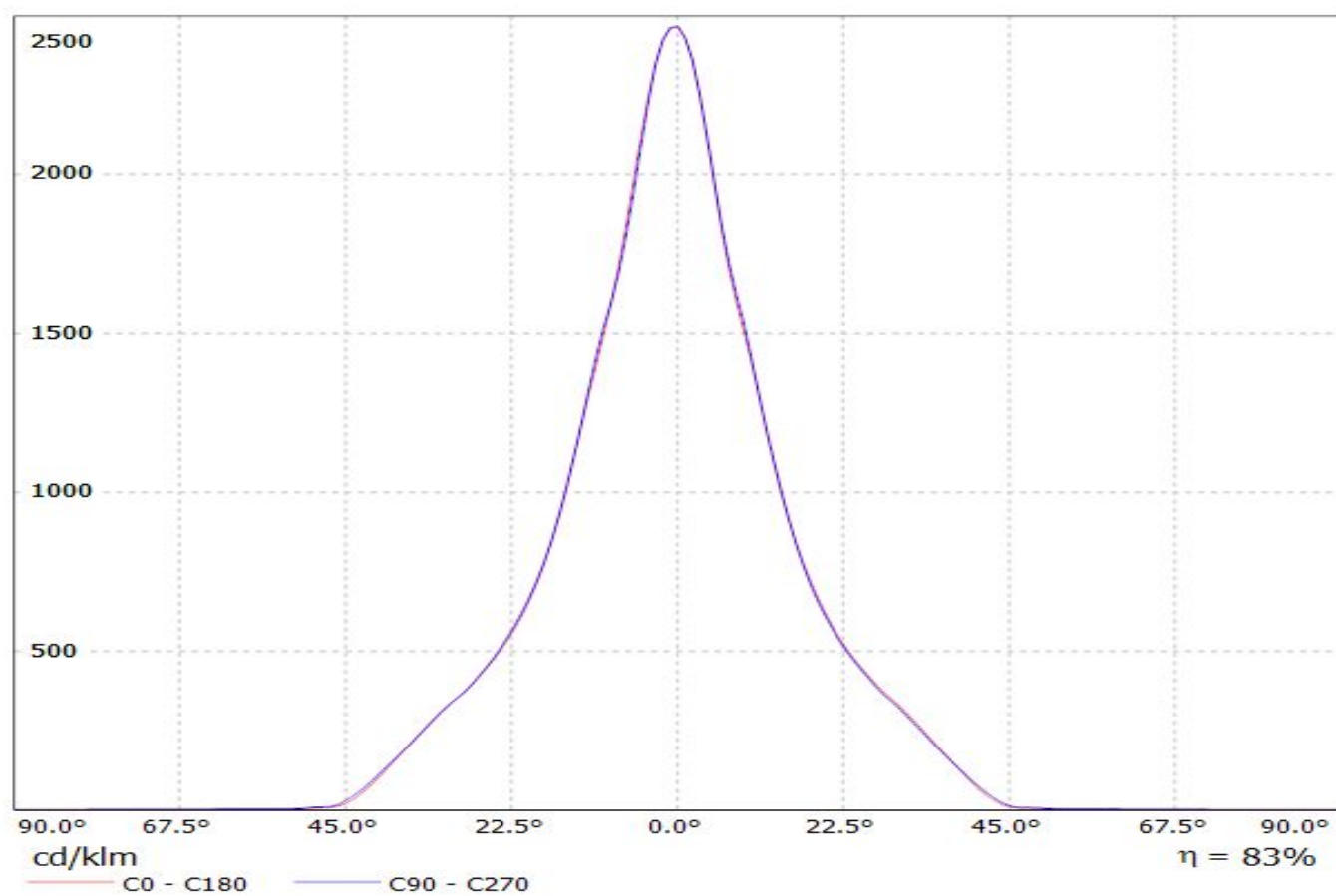


Luminaire: LEDiL Oy CN14214_MIRELLA-50-S-CL-PF-VERO13_(NFCLL060B)
Lamps: 1 x Nichia_NFCLL060B_(438_TYP_L1)_1341.33lm@250mA_P=8.47521W_I=0.2498A

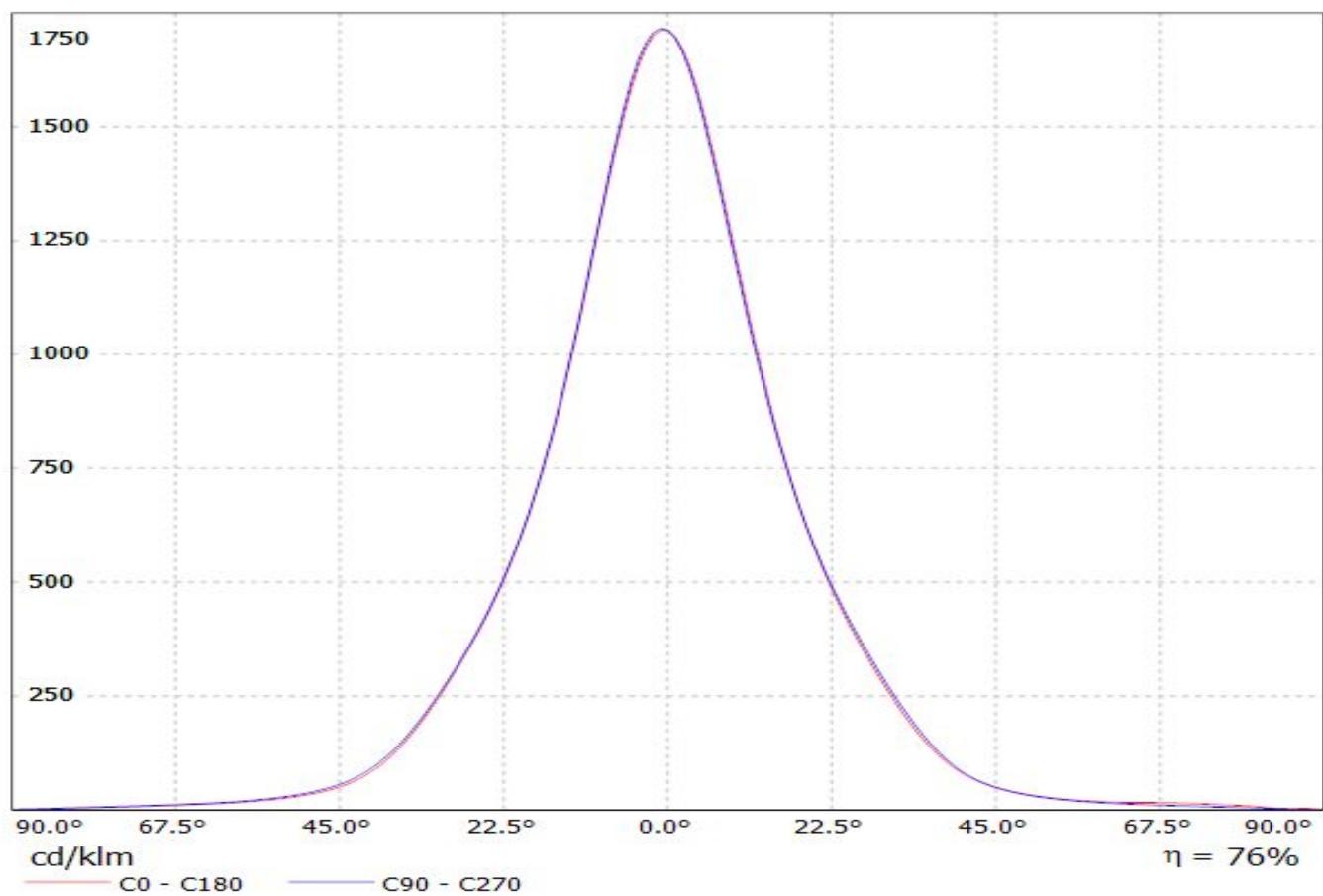


Luminaire: LEDiL Oy C13085_MIRELLA-50-S-PF_(NFCLL060B)

Lamps: 1 x Nichia_NFCLL060B_(sm403G2450R8000)_1315.35lm@250mA_P=8.47347W_I=249.8mA

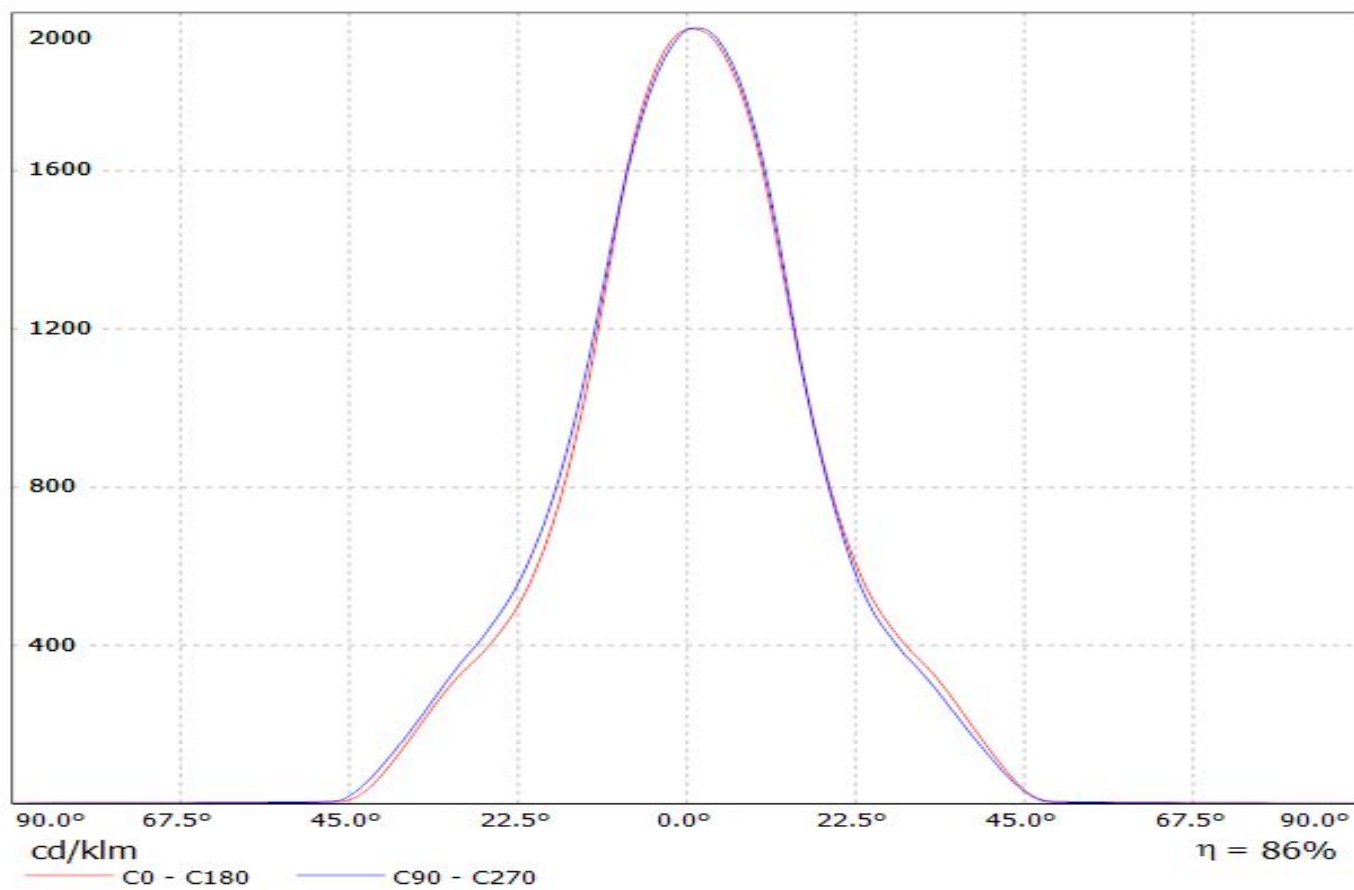


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Lamps: 1 x Nichia_NFCLL060B_(438_TYP_L1)_1341.33lm@250mA_P=8.47521W_I=0.2498A



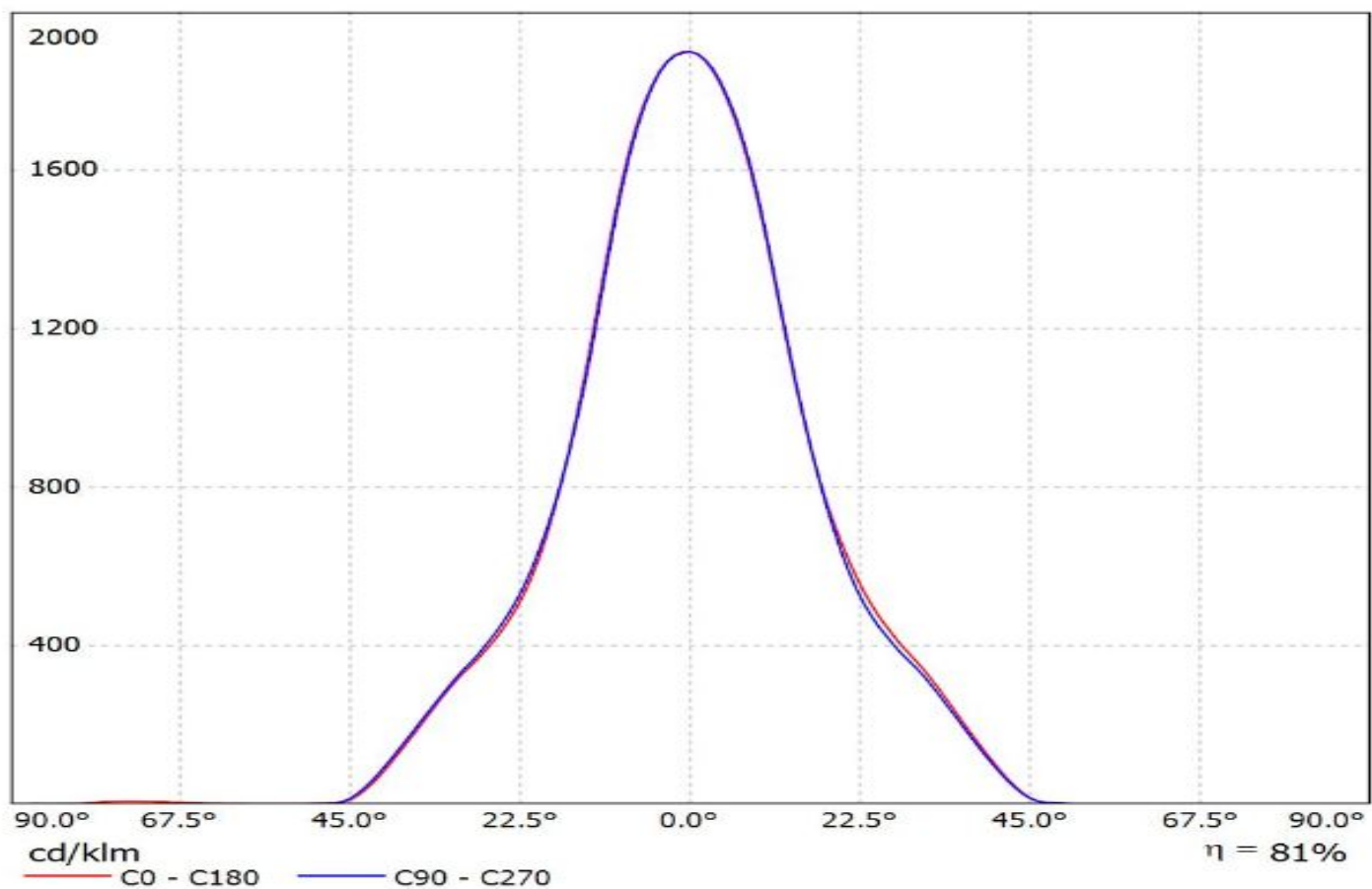
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Lamps: 1 x Nichia_NFCLL060B_(sm403G2450R8000)_1315.35lm@250mA_P=8.47347W_I=249.8mA

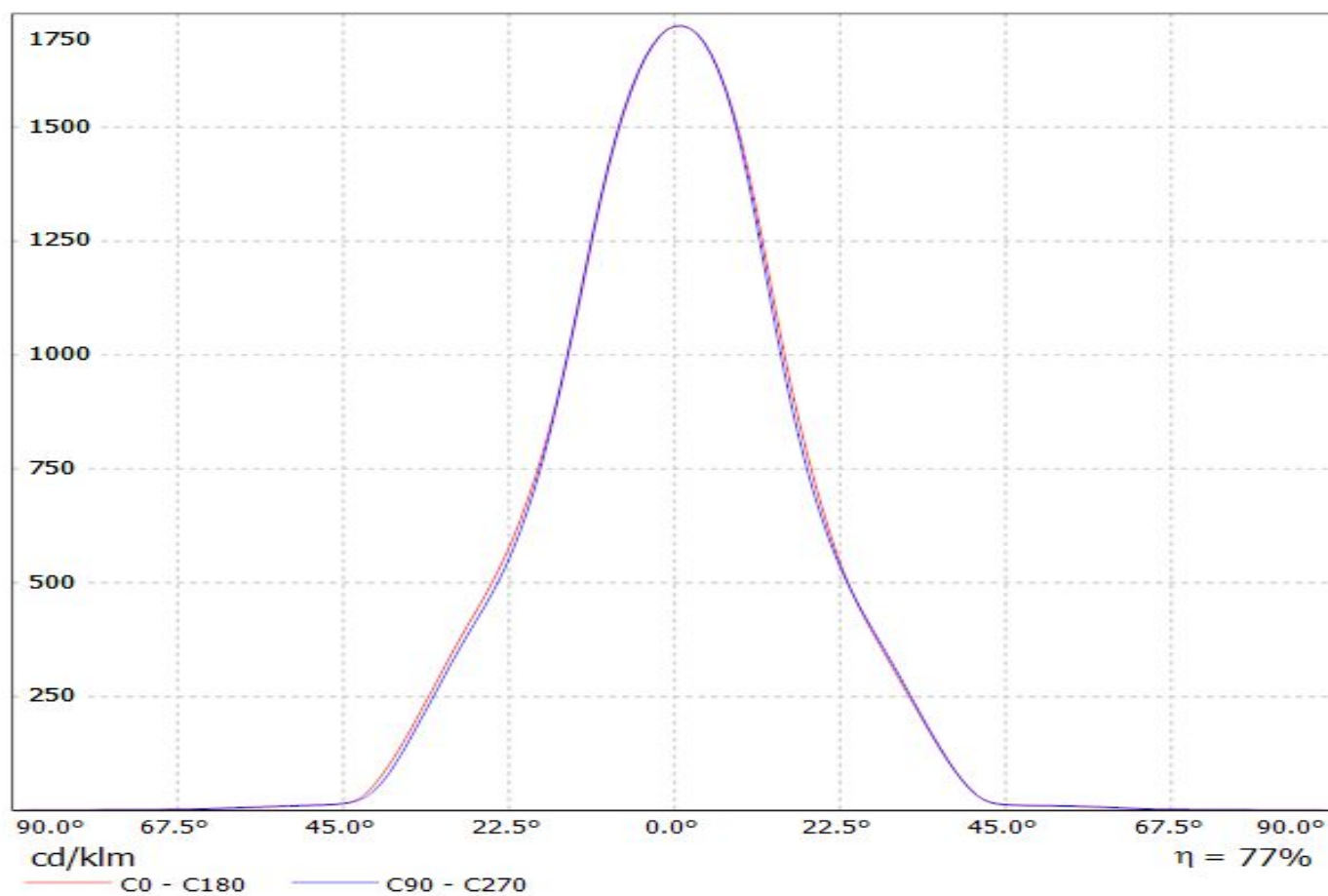


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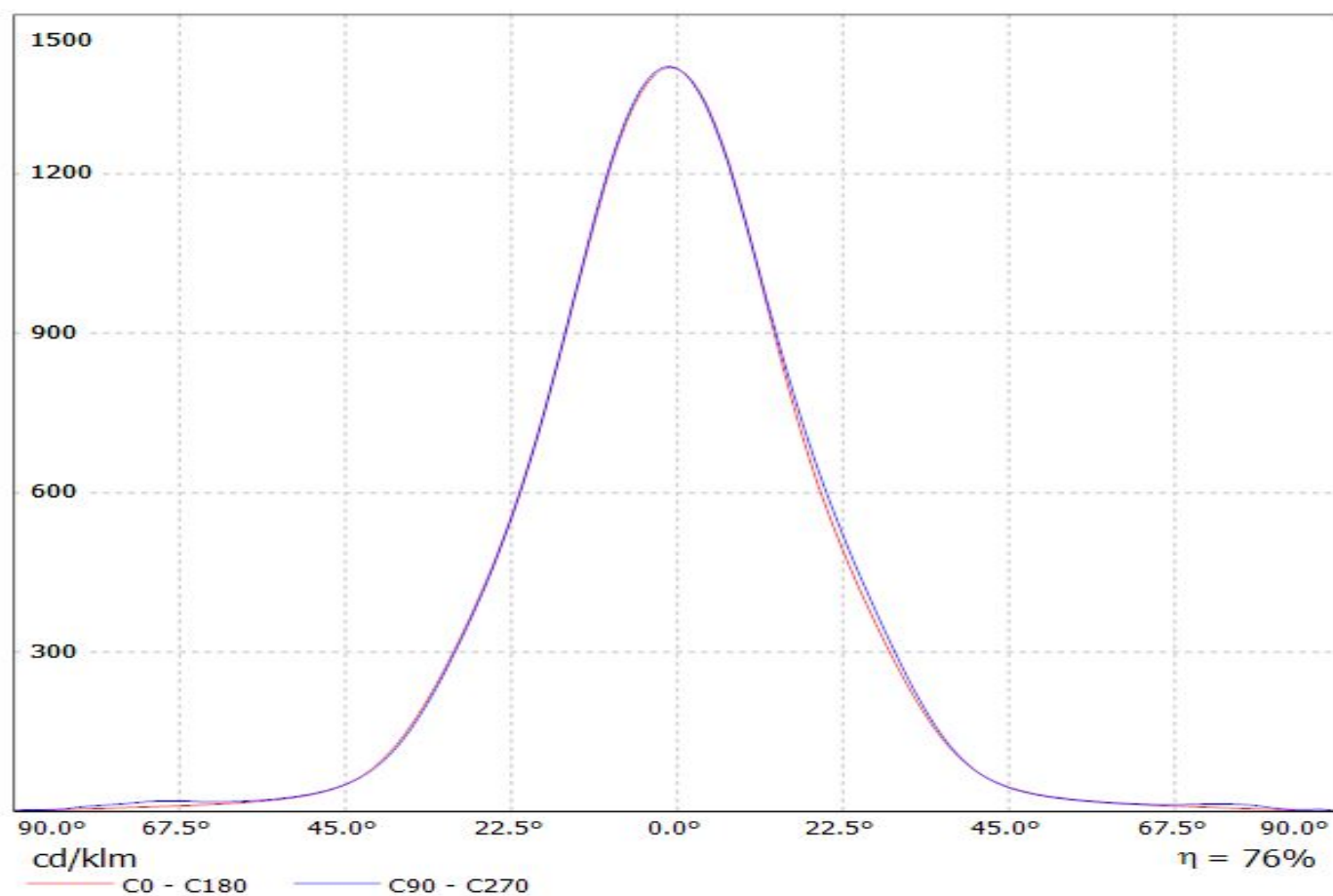
Lamps: 1 x Nichia_NFCLL060B_(438 Typ L1)_1355.59lm@250mA_P=8.5W_I=0.25A



Luminaire: LEDiL Oy CN14216_MIRELLA-50-M-CL-PF-VERO13_(NFCLL060B)
Lamps: 1 x Nichia_NFCLL060B_(438_TYP_L1)_1341.33lm@250mA_P=8.47521W_I=0.2498A

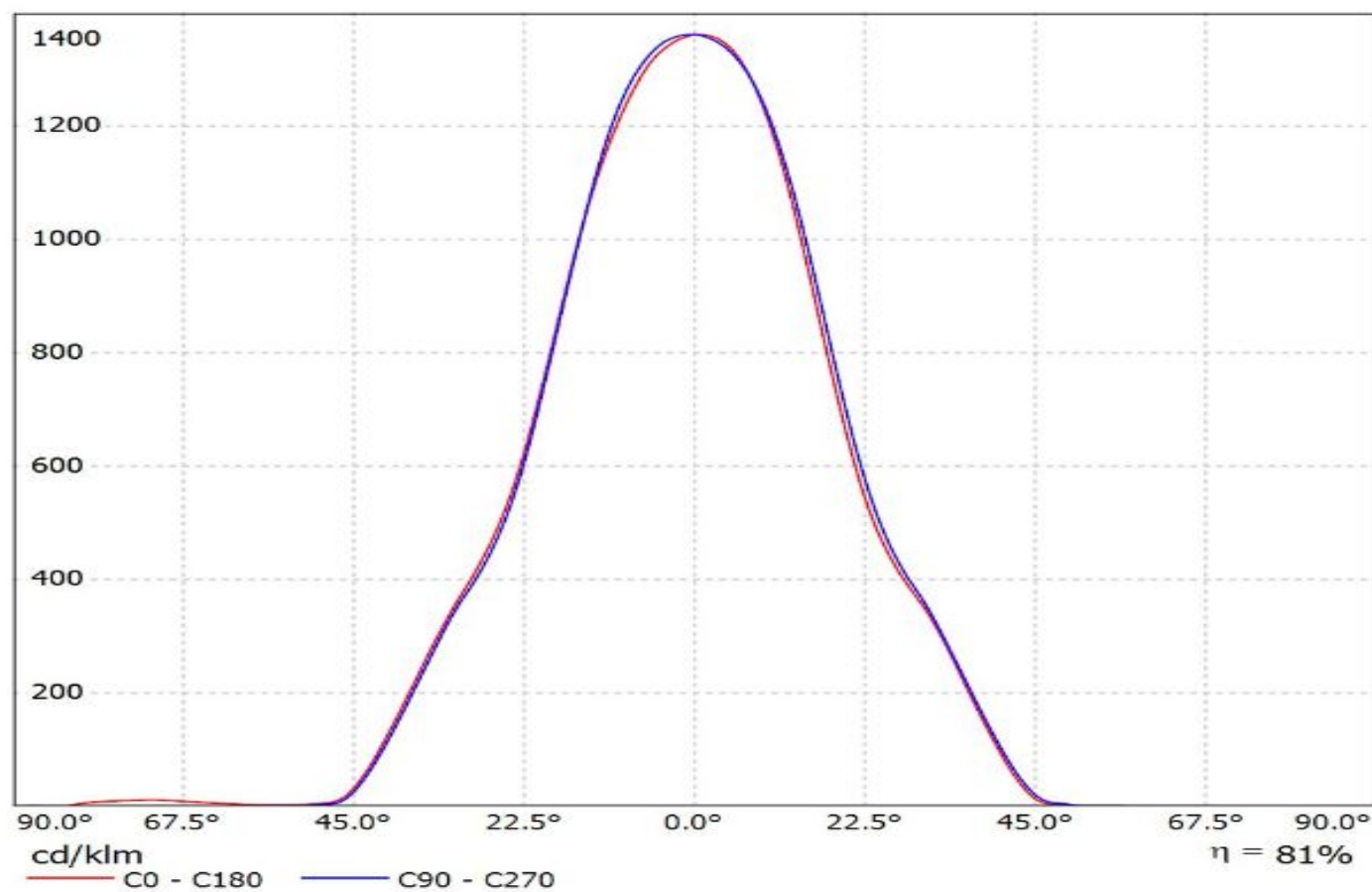


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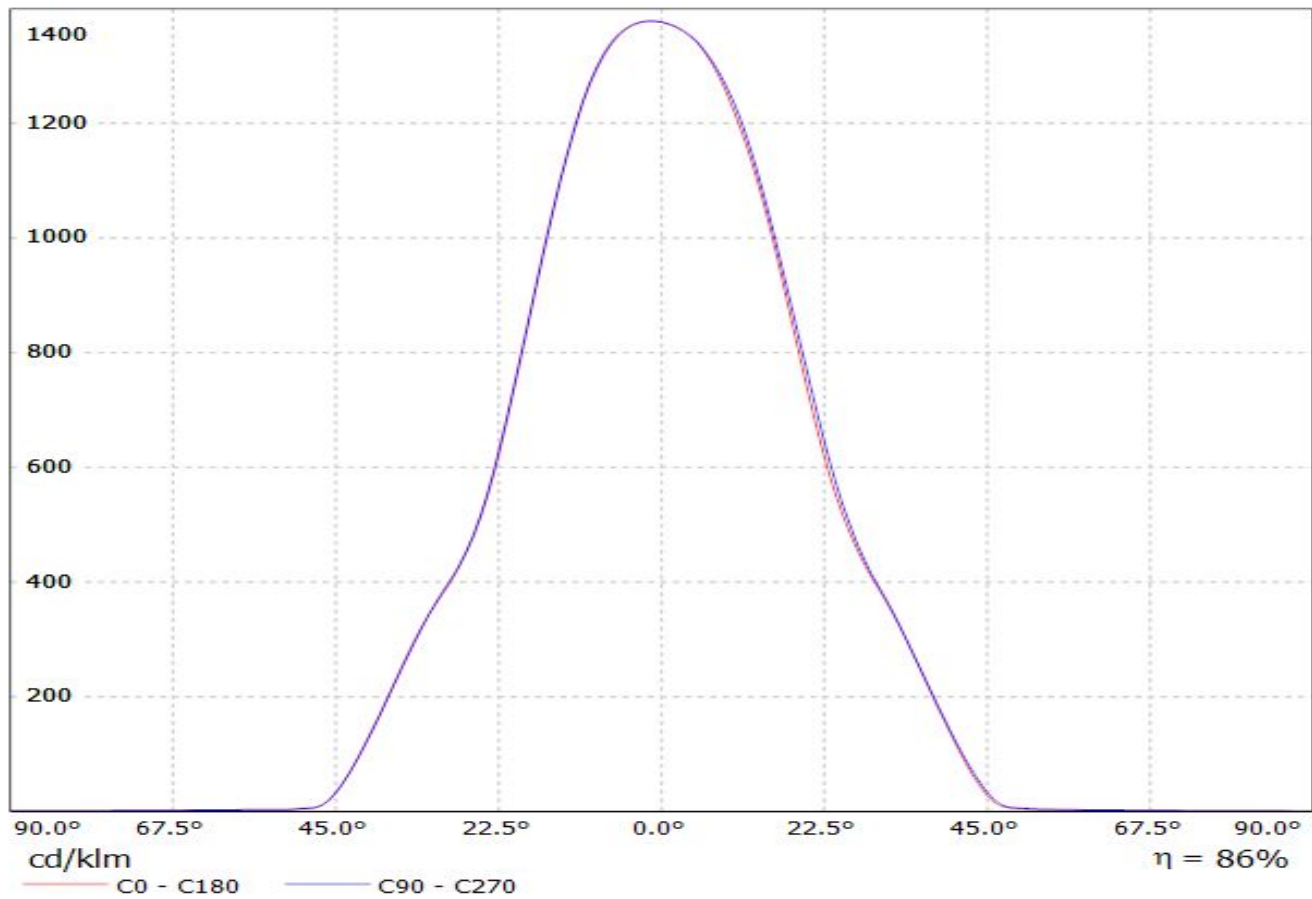


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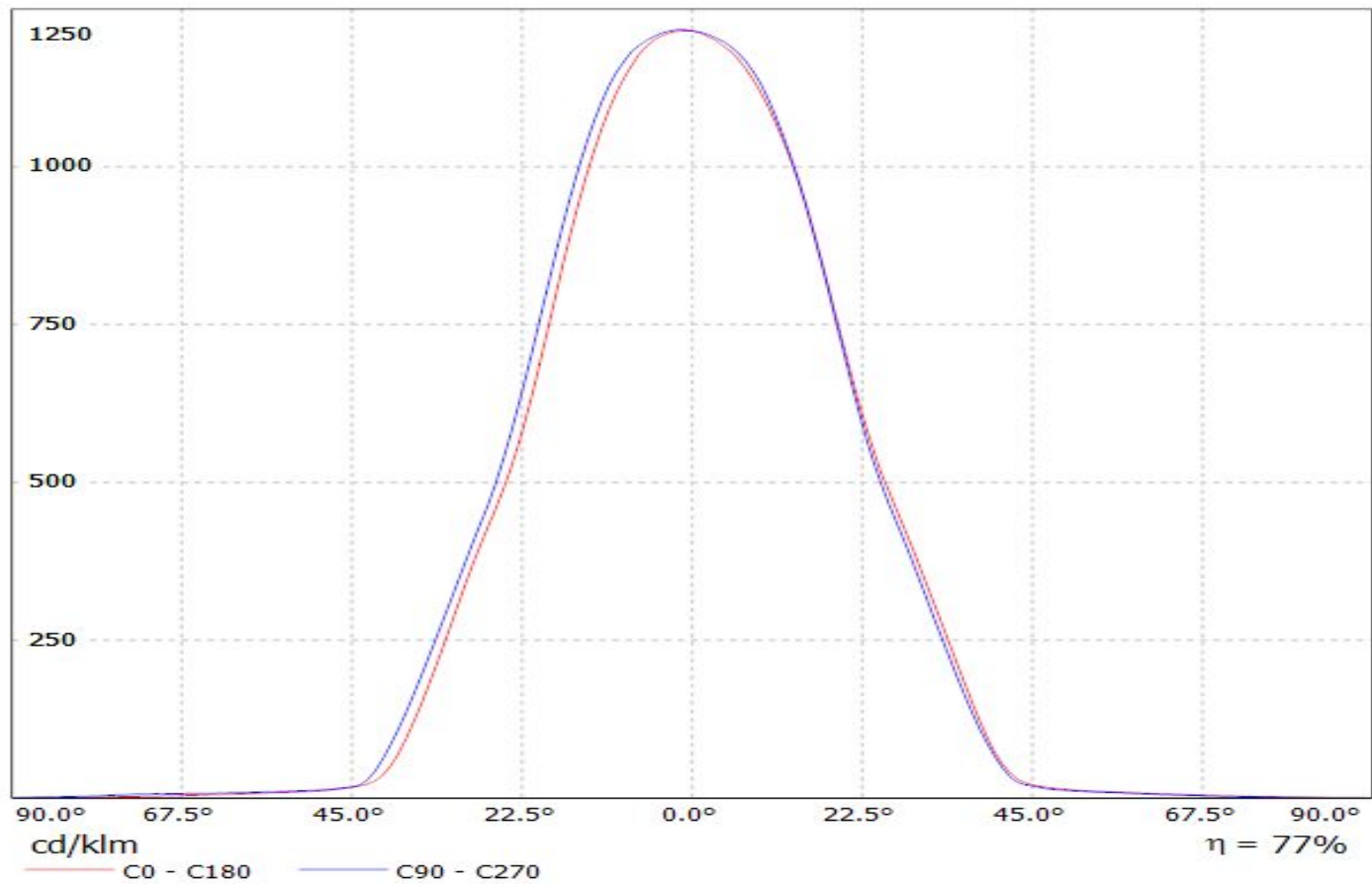
Lamps: 1 x Nichia_NFCLL060B_(438 Typ L1)_1355.59lm@250mA_P=8.5W_I=0.25A



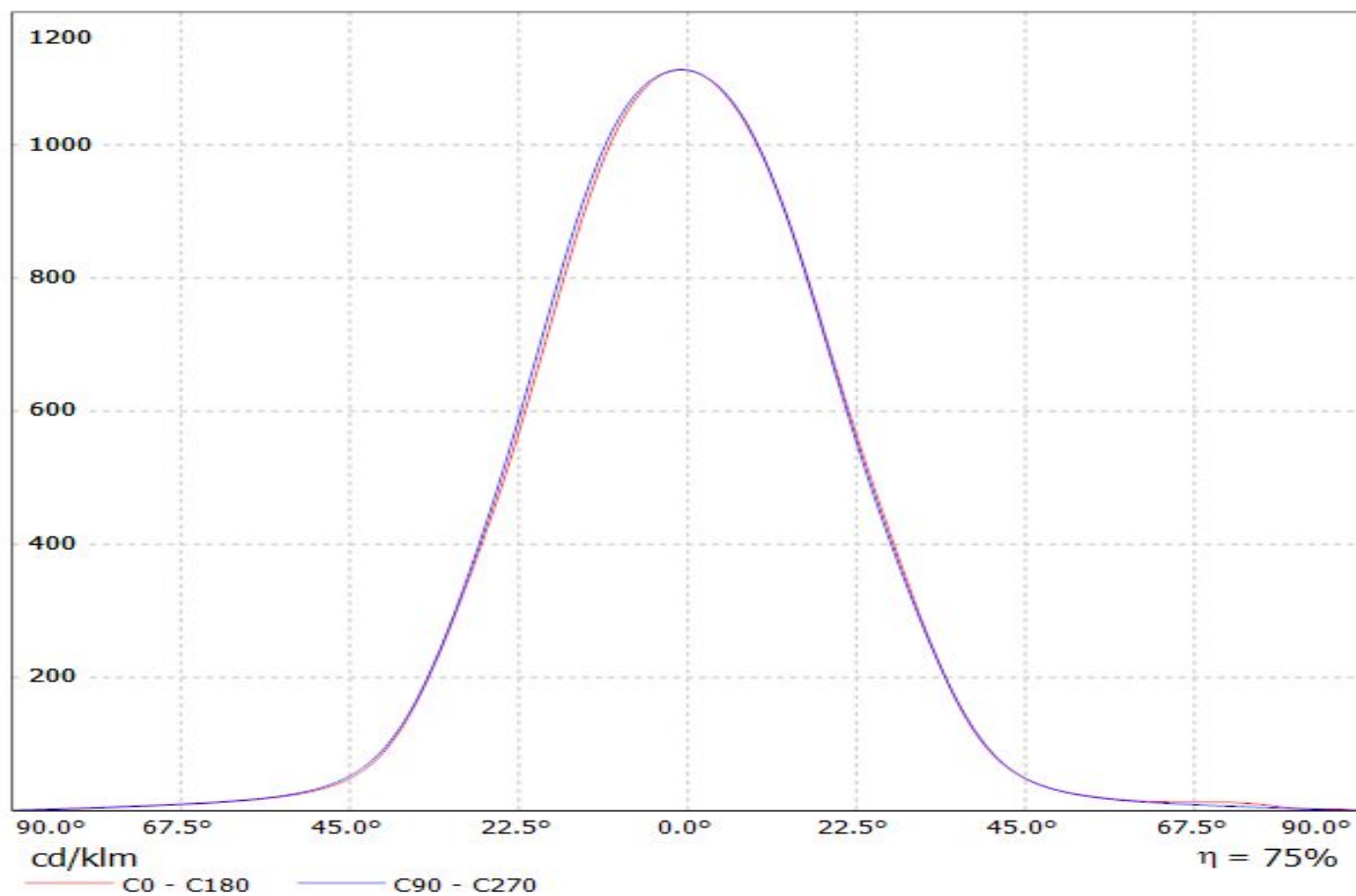
Luminaire: LEDiL Oy C13087_MIRELLA-50-W-PF_(NFCLL060B)
Lamps: 1 x Nichia_NFCLL060B_(sm403G2450R8000)_1315.54lm@250mA_P=8.47996W_I=249.8mA



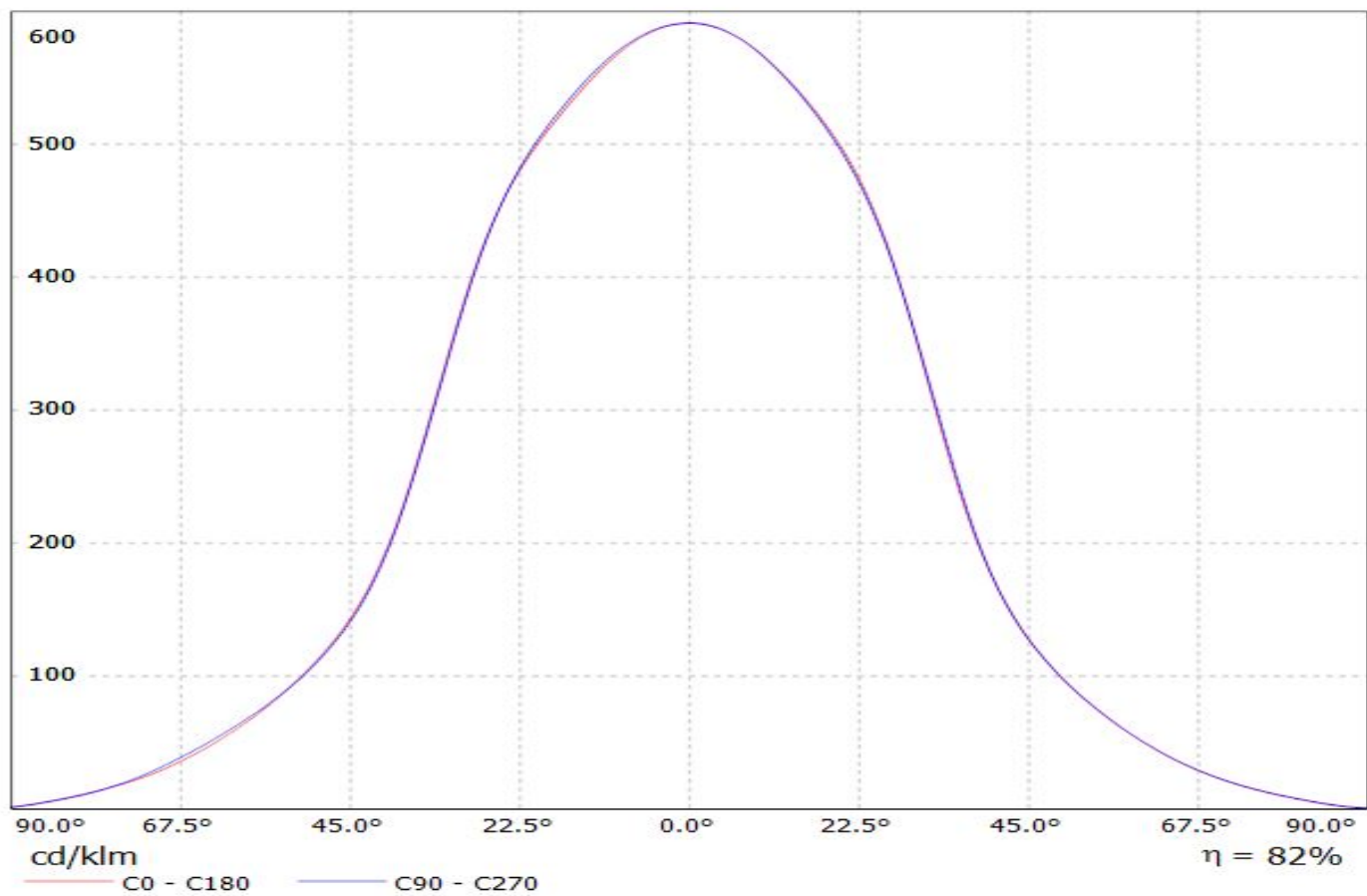
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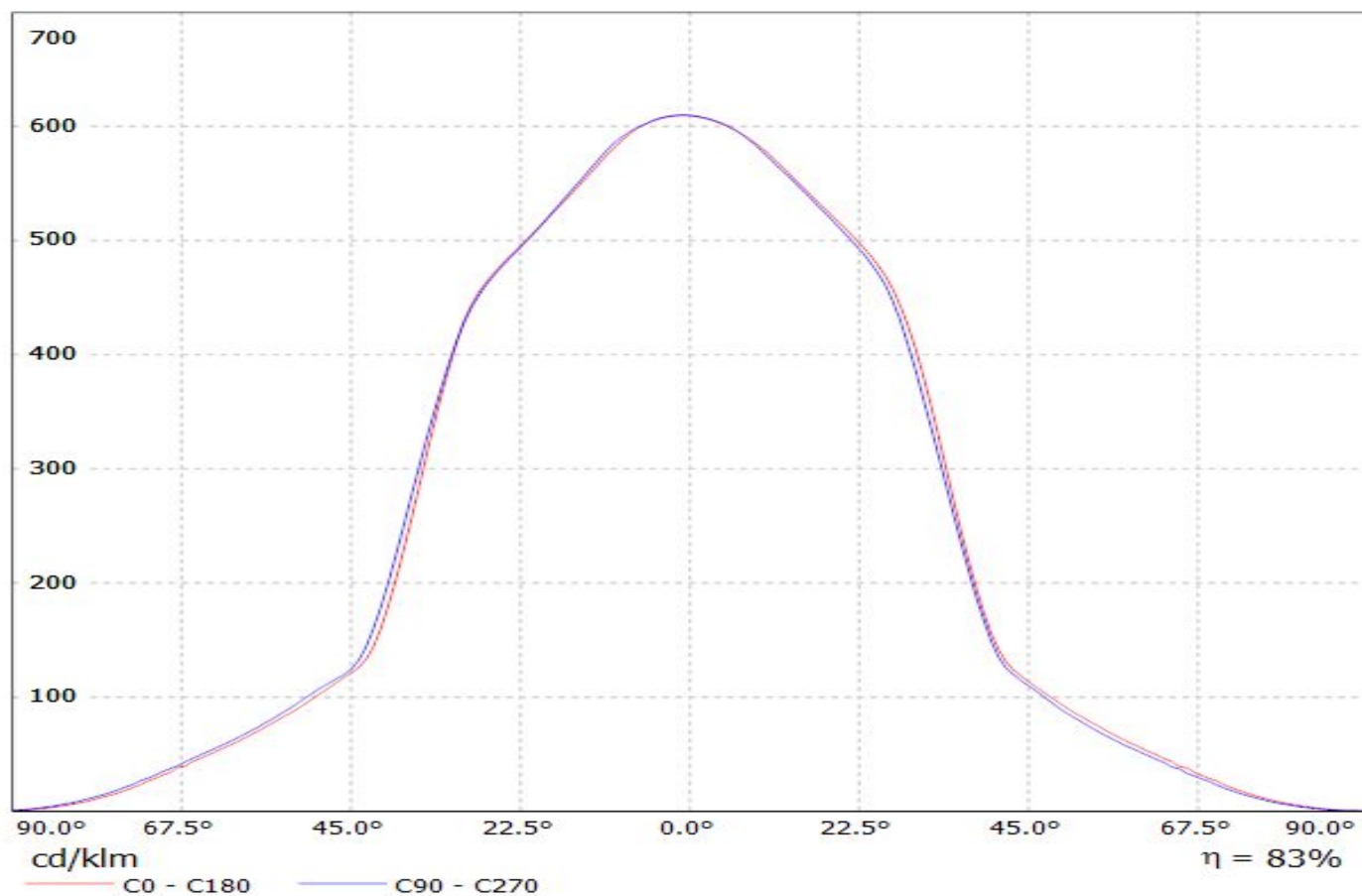
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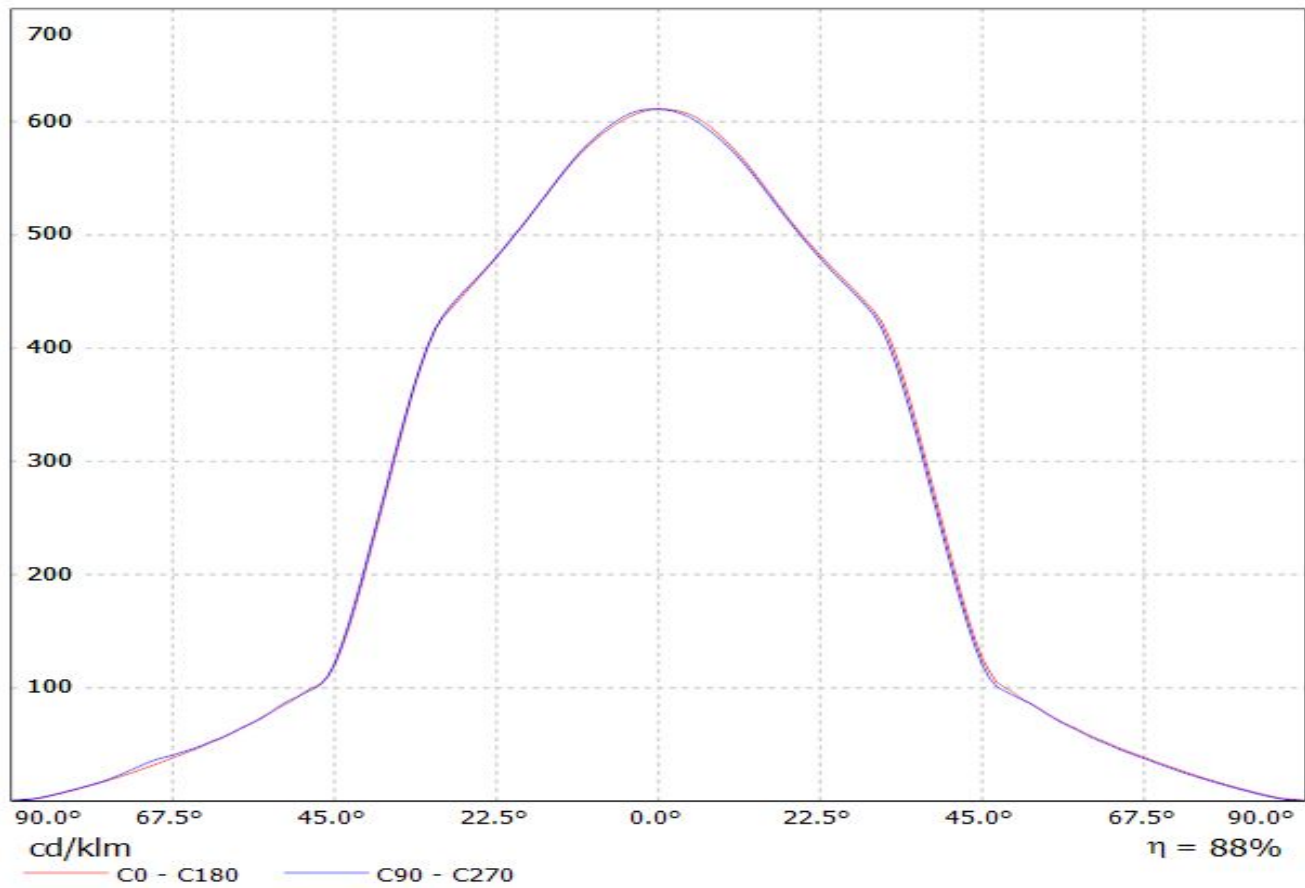
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Luminaire: LEDiL Oy CN14211_MIRELLA-XW-CL-PF-VERO13_(NFCLL060B)
Lamps: 1 x Nichia_NFCLL060B_(438_TYP_L1)_1341.33lm@250mA_P=8.47521W_I=0.2498A

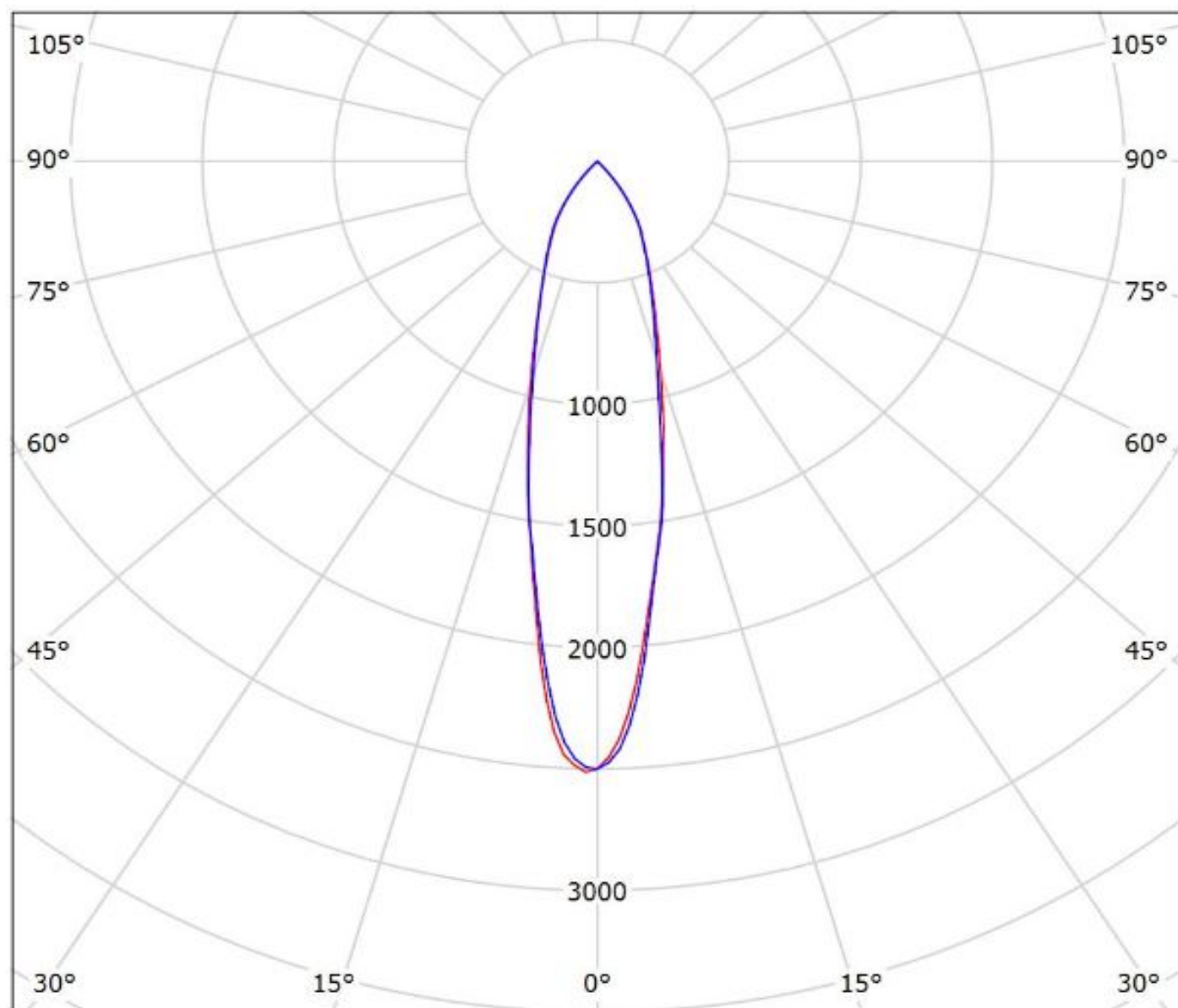


Luminaire: Ledil CN14209_MIRELLA-XW-PF-VERO13_(NFCLL060B)
Lamps: 1 x Nichia_NFCLL060B_(438 Typ L1)_1355.59lm@250mA_P=8.5W_I=0.25A



Luminaire: Ledil CN13918_MIRELLA-50-S-PF-VERO13_(NFCLL060B)

Lamps: 1 x Nichia_NFCLL060B_(438 Typ L1)_1355.59lm@250mA_P=8.5W_I=0.25A



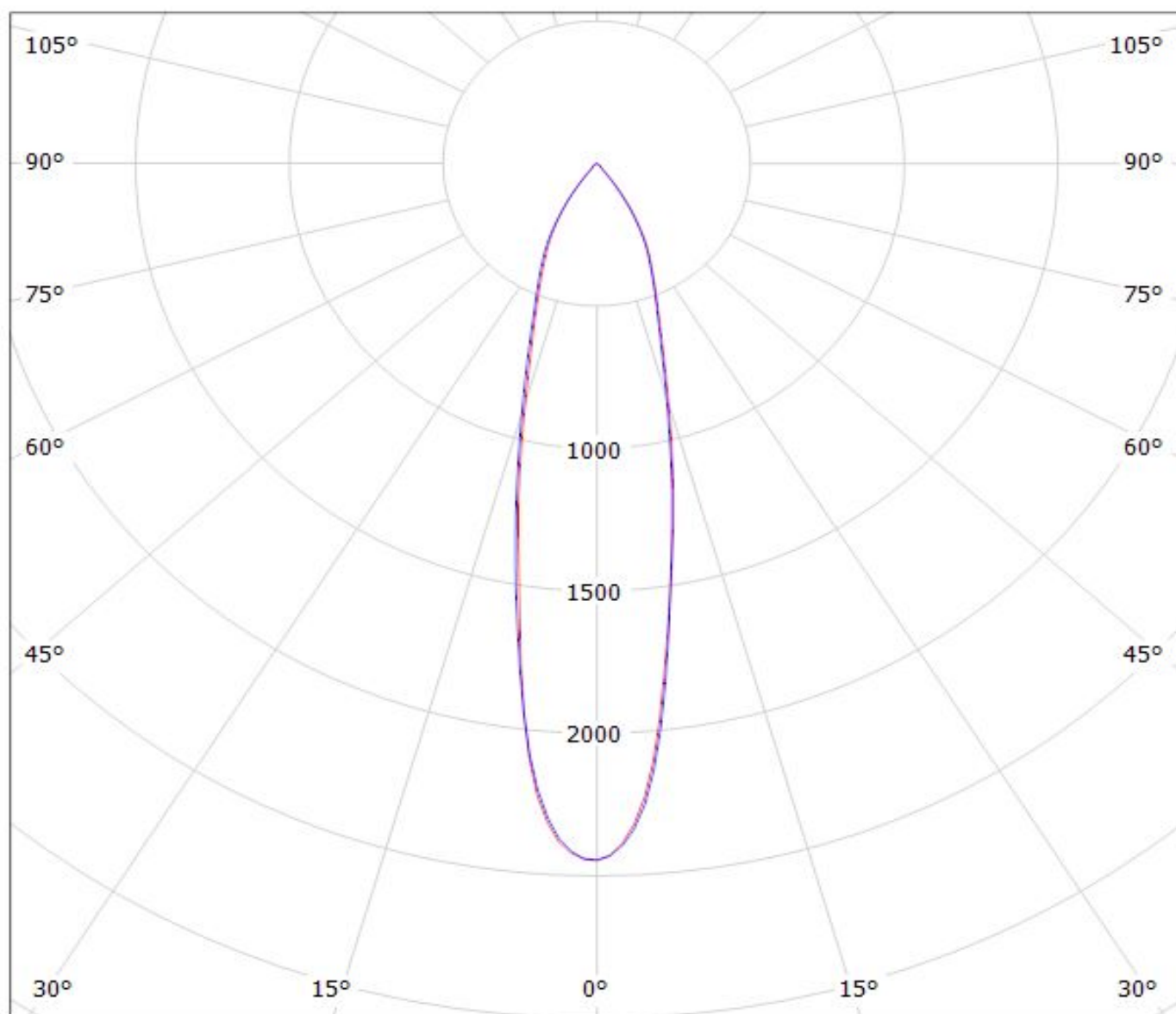
cd/klm

— C0 - C180 — C90 - C270

$\eta = 81\%$

Luminaire: LEDiL Oy CN14214_MIRELLA-50-S-CL-PF-VERO13_(NFCLL060B)

Lamps: 1 x Nichia_NFCLL060B_(438_TYP_L1)_1341.33lm@250mA_P=8.47521W_I=0.2498A



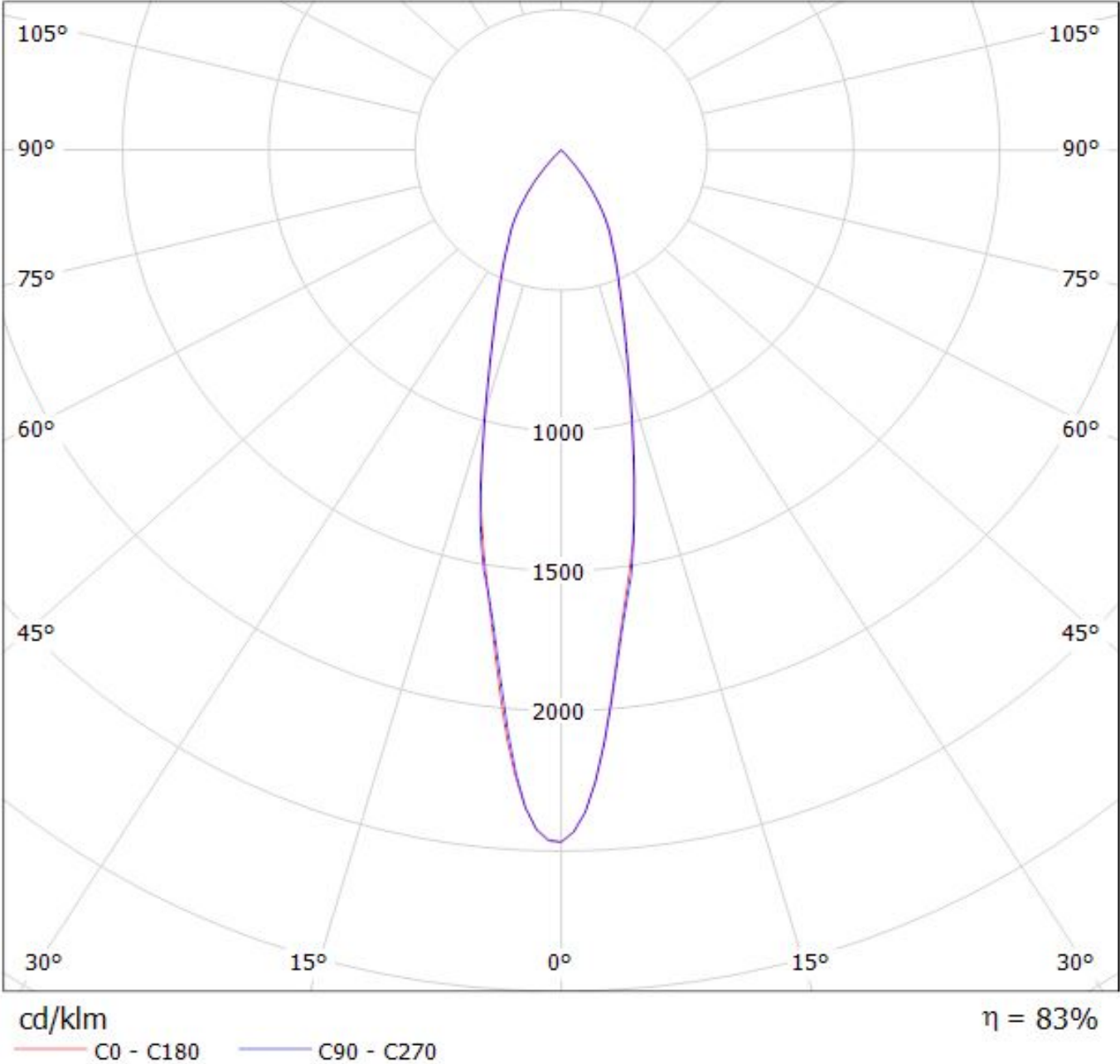
cd/klm

$\eta = 78\%$

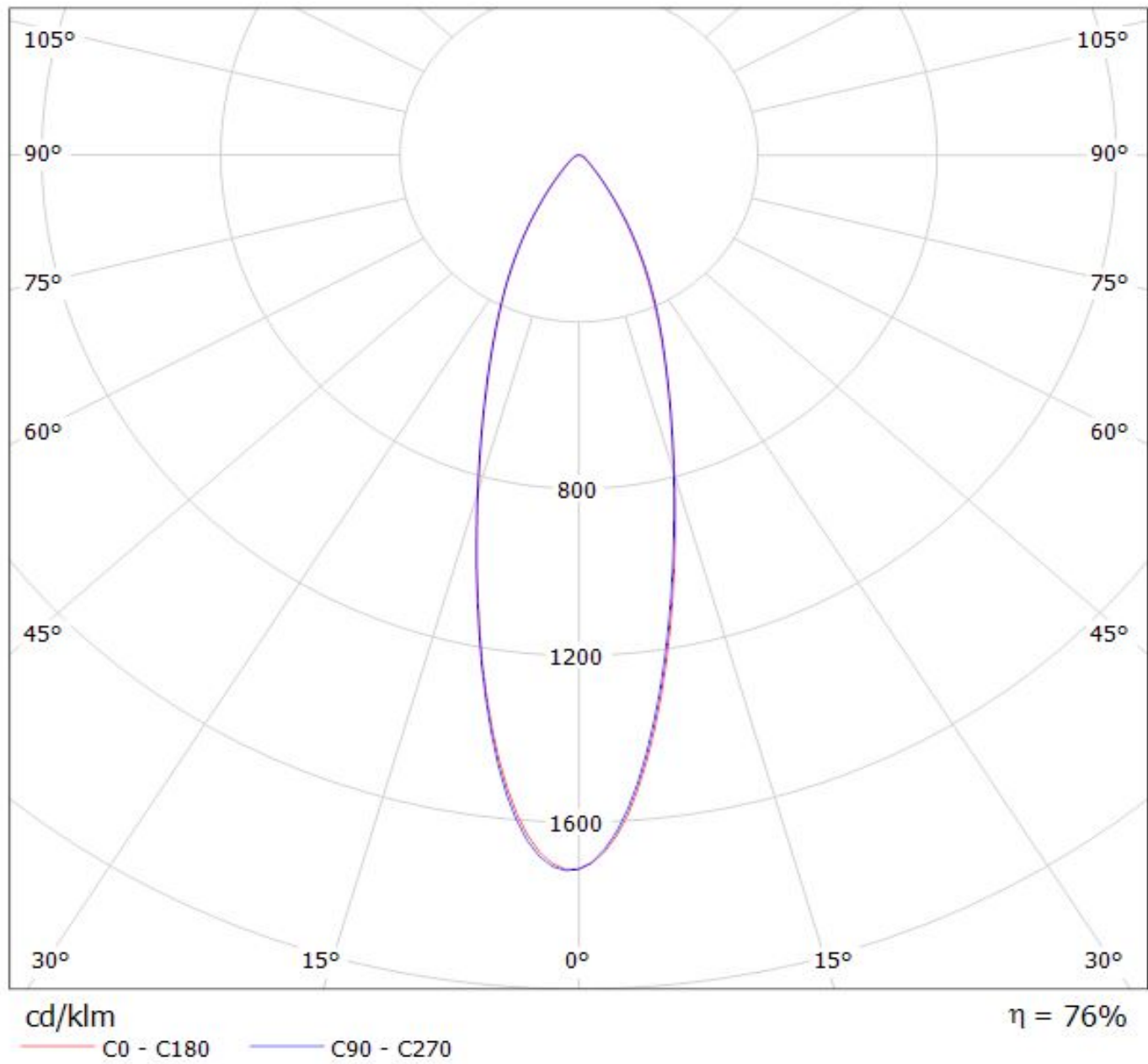
— C0 - C180

— C90 - C270

Luminaire: LEDiL Oy C13085_MIRELLA-50-S-PF_(NFCLL060B)
Lamps: 1 x Nichia_NFCLL060B_(sm403G2450R8000)_1315.35lm@250mA_P=8.47347W_I=249.8mA

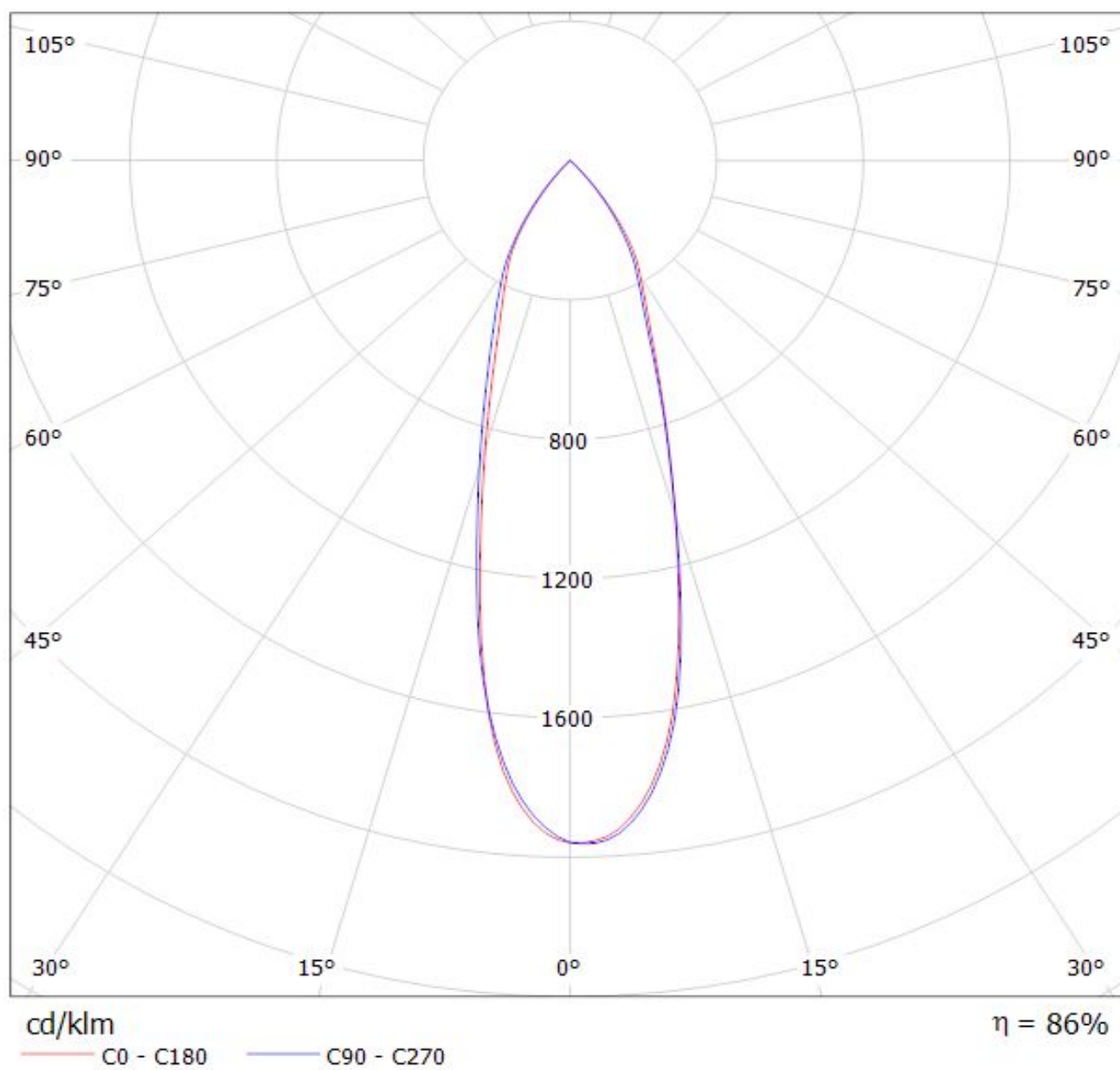


Luminaire: LEDiL Oy CN14213_MIRELLA-50-S-DL-PF-VERO13_(NFCLL060B)
Lamps: 1 x Nichia_NFCLL060B_(438_TYP_L1)_1341.33lm@250mA_P=8.47521W_I=0.2498A



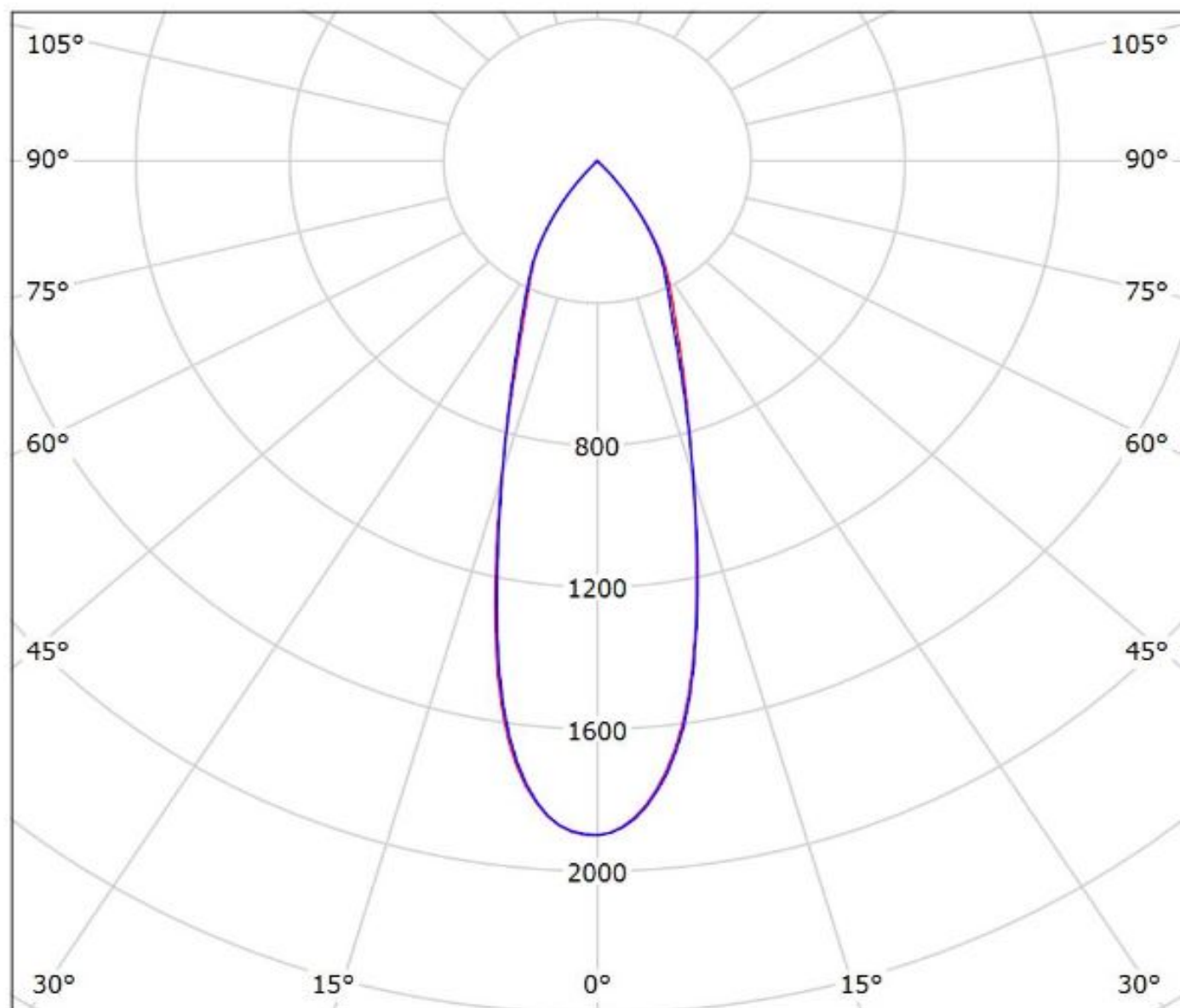
Luminaire: LEDiL Oy C13086_MIRELLA-50-M-PF_(NFCLL060B)

Lamps: 1 x Nichia_NFCLL060B_(sm403G2450R8000)_1315.35lm@250mA_P=8.47347W_I=249.8mA



Luminaire: Ledil CN13920_MIRELLA-50-M-PF-VERO13_(NFCLL060B)

Lamps: 1 x Nichia_NFCLL060B_(438 Typ L1)_1355.59lm@250mA_P=8.5W_I=0.25A



cd/klm

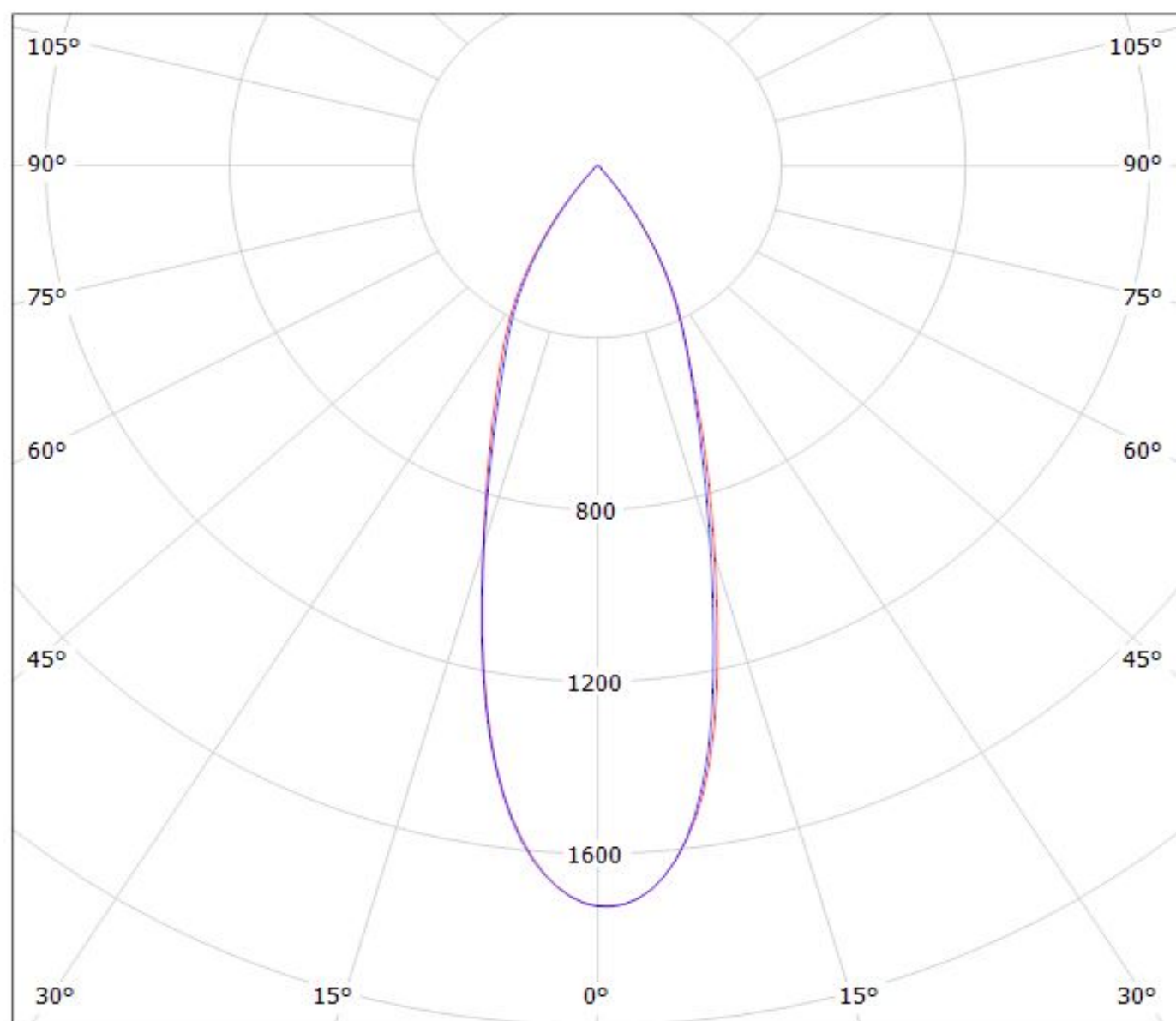
— C0 - C180

— C90 - C270

η = 81%

Luminaire: LEDiL Oy CN14216_MIRELLA-50-M-CL-PF-VERO13_(NFCLL060B)

Lamps: 1 x Nichia_NFCLL060B_(438_TYP_L1)_1341.33lm@250mA_P=8.47521W_I=0.2498A



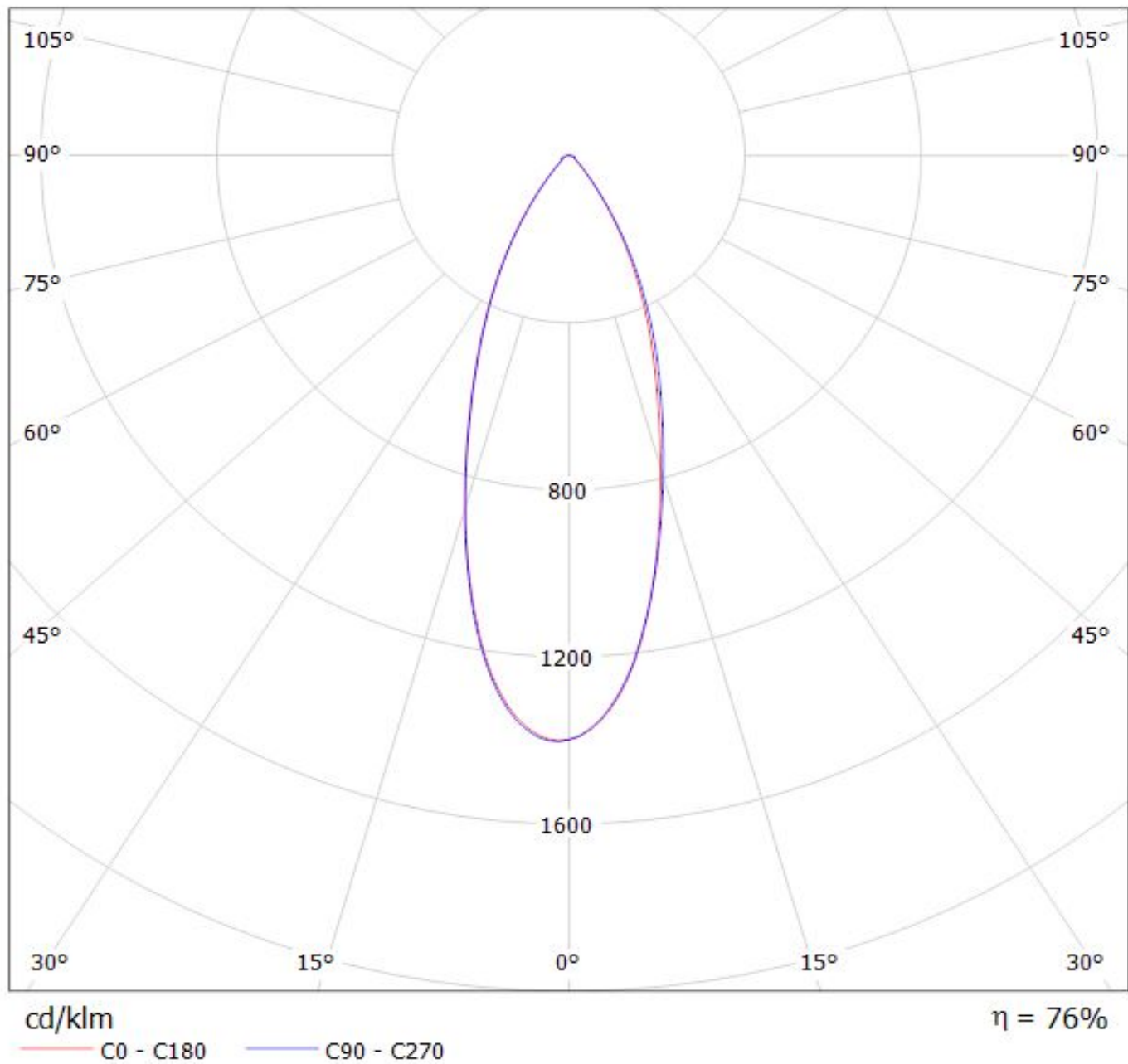
cd/klm

η = 77%

— C0 - C180

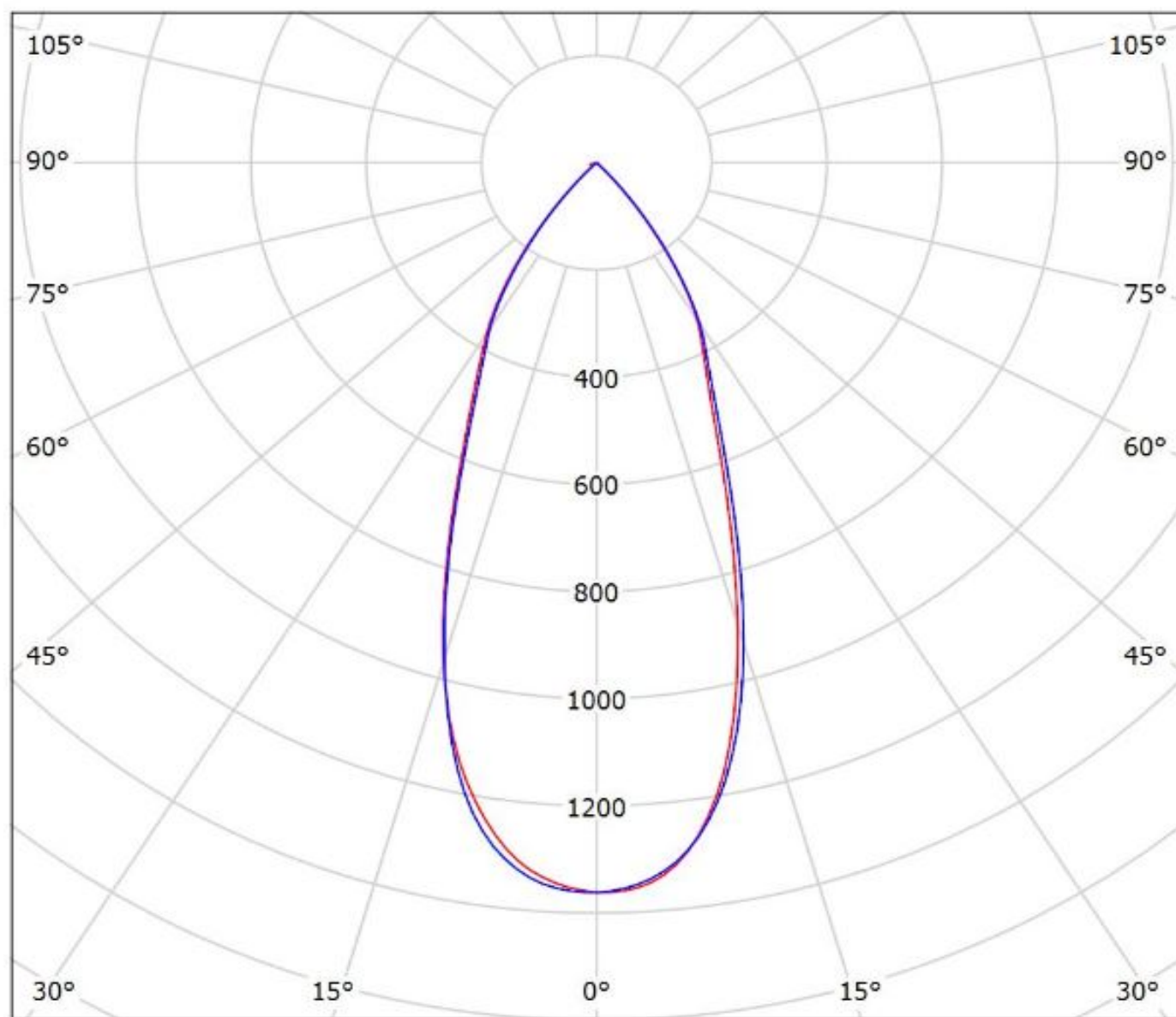
— C90 - C270

Luminaire: LEDiL Oy CN14215_MIRELLA-50-M-DL-PF-VERO13_(NFCLL060B)
Lamps: 1 x Nichia_NFCLL060B_(438_TYP_L1)_1341.33lm@250mA_P=8.47521W_η=0.2498A



Luminaire: Ledil CN13923_MIRELLA-50-W-PF-VERO13_(NFCLL060B)

Lamps: 1 x Nichia_NFCLL060B_(438 Typ L1)_1355.59lm@250mA_P=8.5W_I=0.25A



cd/klm

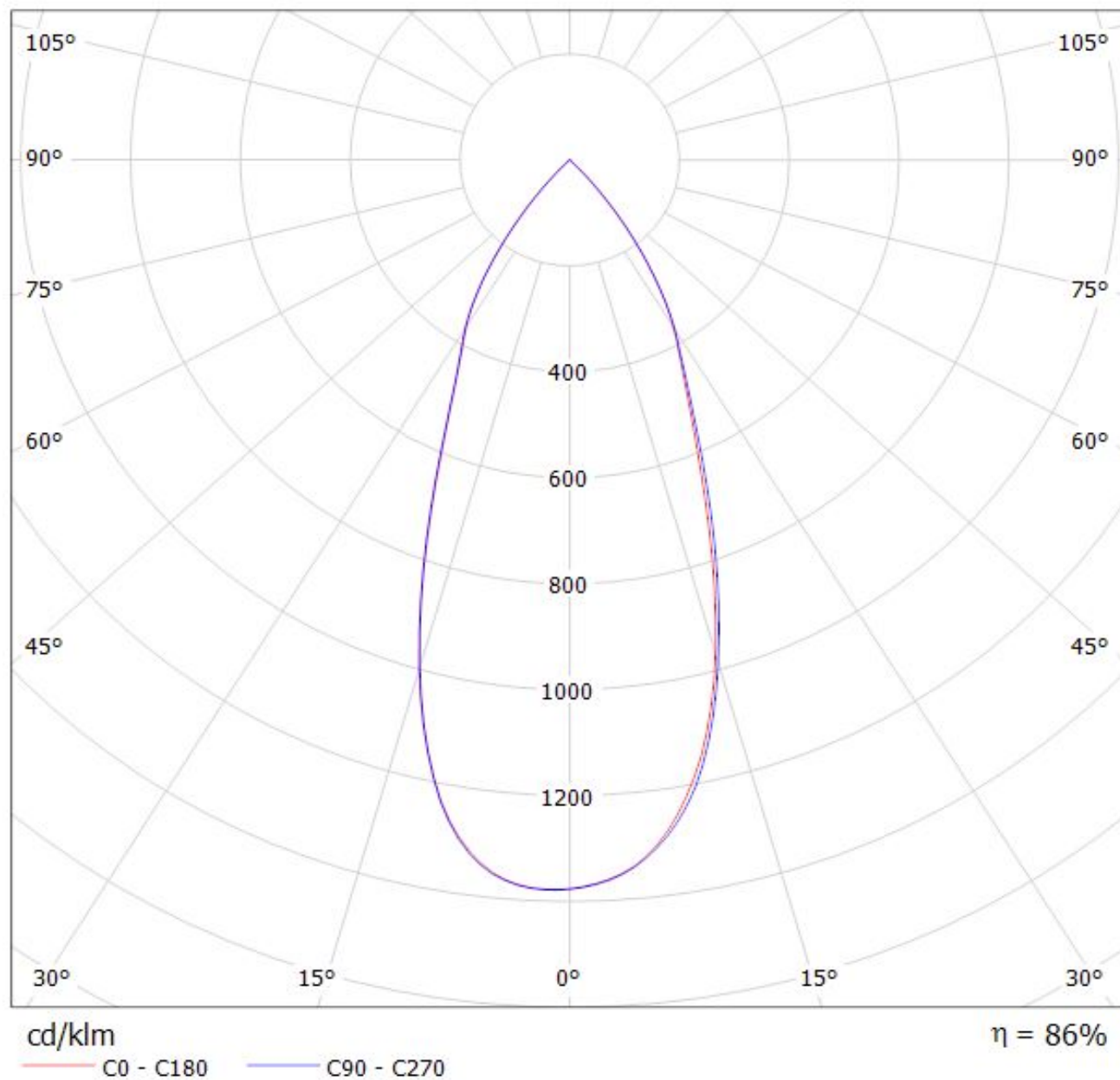
— C0 - C180

— C90 - C270

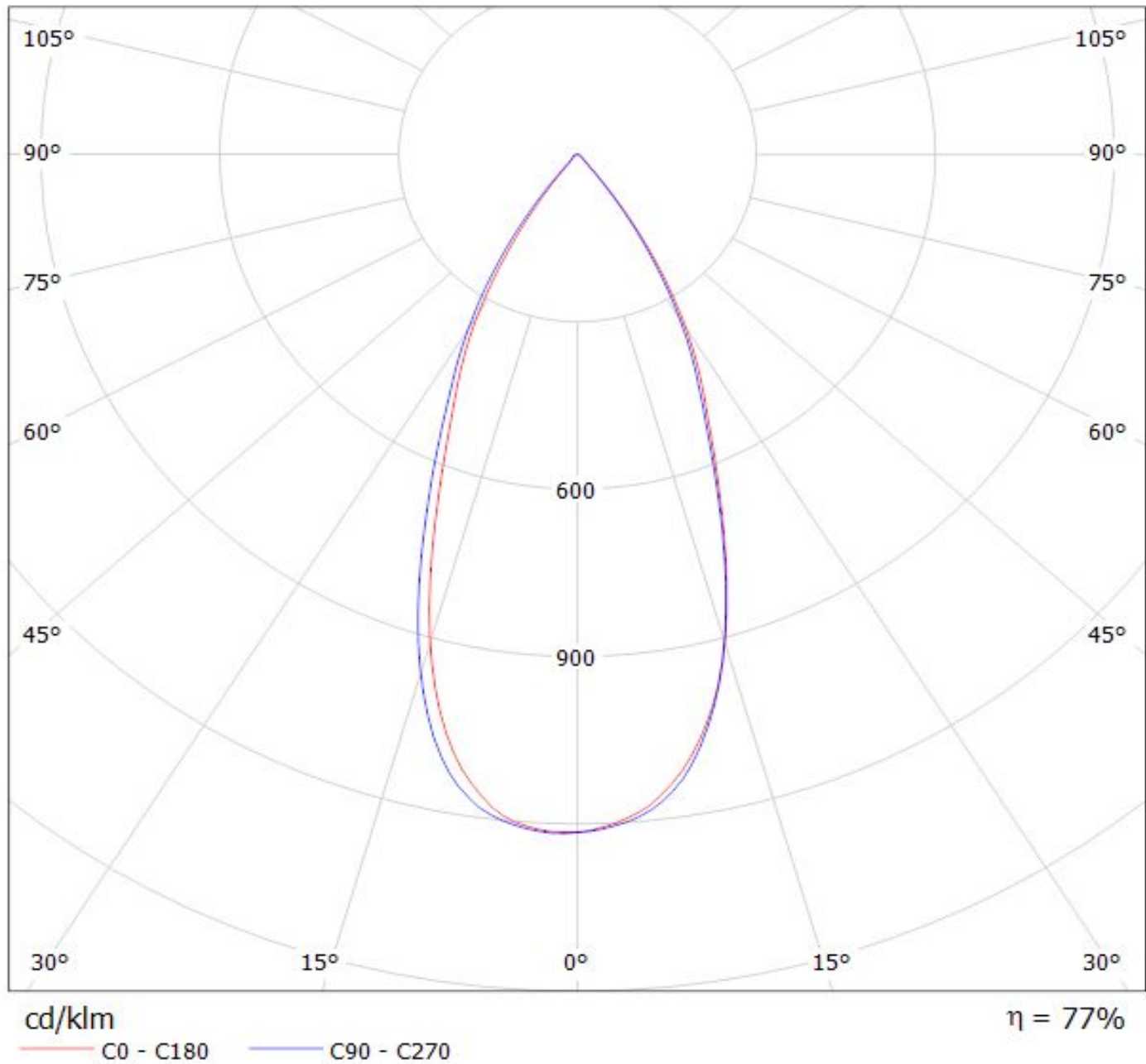
$\eta = 81\%$

Luminaire: LEDiL Oy C13087_MIRELLA-50-W-PF_(NFCLL060B)

Lamps: 1 x Nichia_NFCLL060B_(sm403G2450R8000)_1315.54lm@250mA_P=8.47996W_I=249.8mA

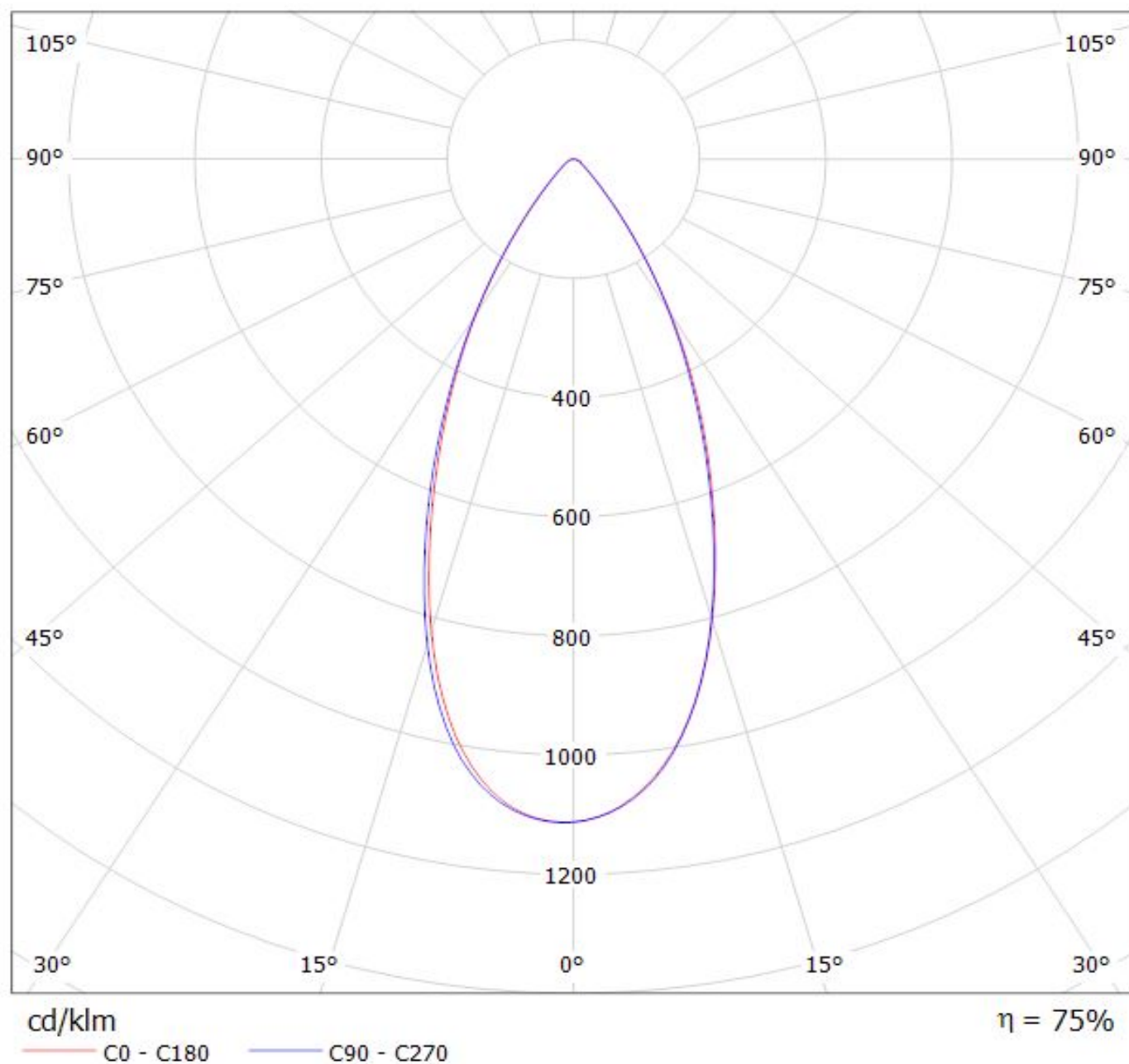


Luminaire: LEDiL Oy CN14218_MIRELLA-50-W-CL-PF-VERO13_(NFCLL060B)
Lamps: 1 x Nichia_NFCLL060B_(438_TYP_L1)_1341.33lm@250mA_P=8.47521W_I=0.2498A



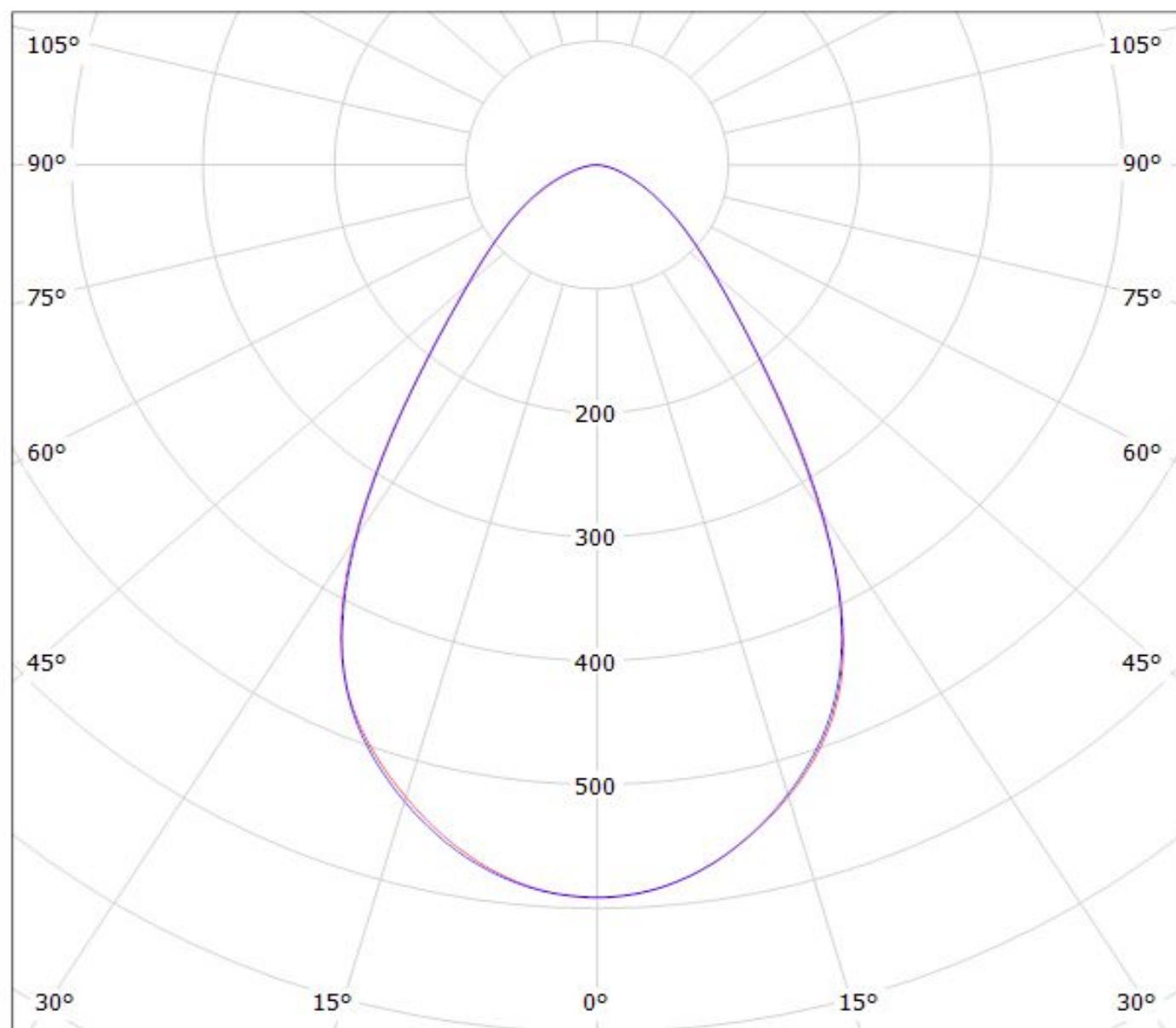
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Lamps: 1 x Nichia_NFCLL060B_(438_TYP_L1)_1341.33lm@250mA_P=8.47521W_I=0.2498A



Luminaire: LEDiL Oy CN14212_MIRELLA-XW-DL-PF-VERO13_(NFCLL060B)

Lamps: 1 x Nichia_NFCLL060B_(438_TYP_L1)_1341.33lm@250mA_P=8.47521W_I=0.2498A



cd/klm

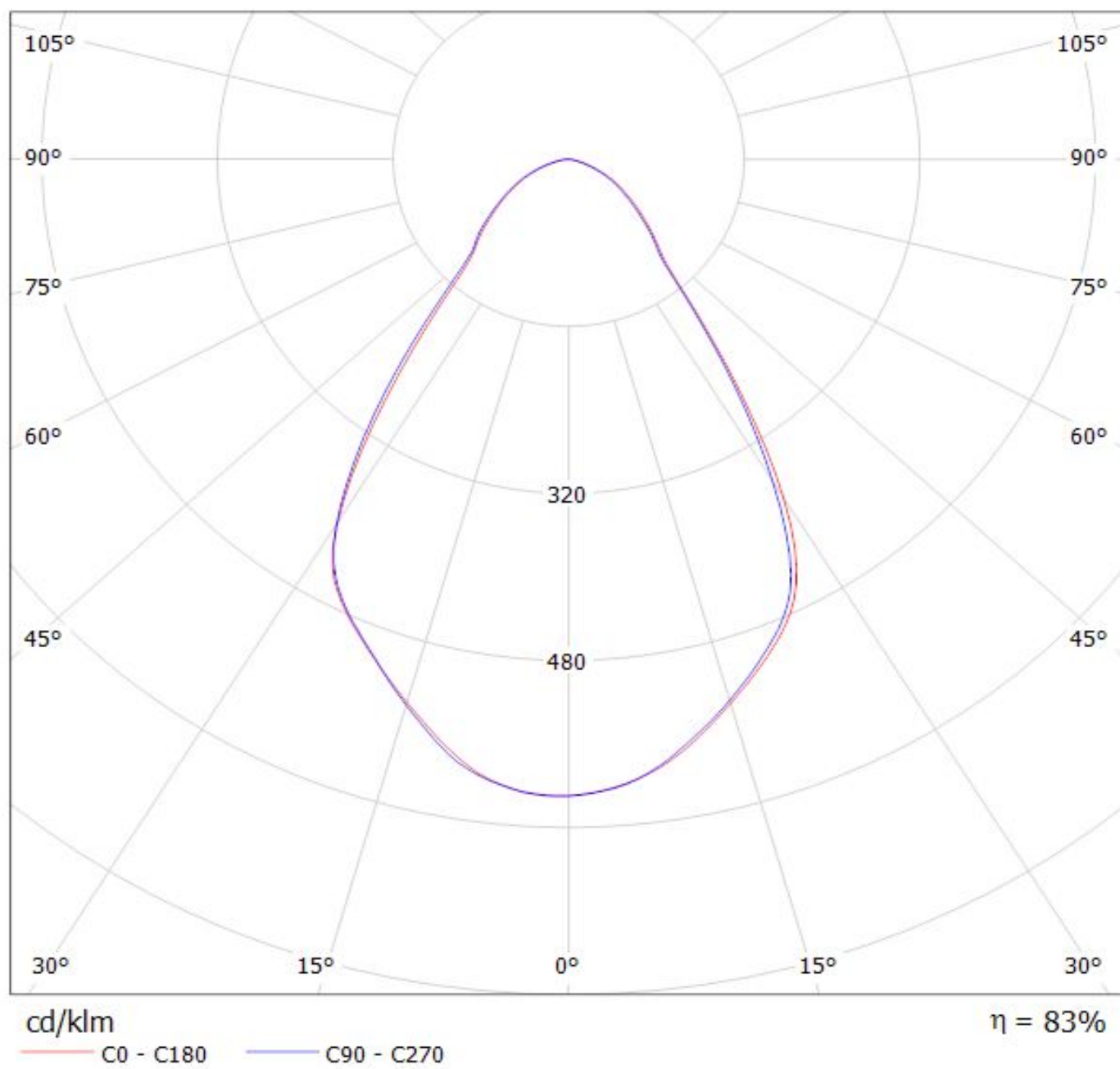
C0 - C180

C90 - C270

$\eta = 82\%$

Luminaire: LEDiL Oy CN14211_MIRELLA-XW-CL-PF-VERO13_(NFCLL060B)

Lamps: 1 x Nichia_NFCLL060B_(438_TYP_L1)_1341.33lm@250mA_P=8.47521W_I=0.2498A



Luminaire: Ledil CN14209_MIRELLA-XW-PF-VERO13_(NFCLL060B)
Lamps: 1 x Nichia_NFCLL060B_(438 Typ L1)_1355.59lm@250mA_P=8.5W_I=0.25A

