

**Product number C12597_LENINA-S**

Family	Lenina	FWHM	13 degrees
Type	Reflector	Efficiency	91 %
LED	COB L-Type (LES 11)	cd/Im	8.300
Color	Metal	Gerber File	Available
Diameter	74 mm		
Height	40 mm		
Style	Round		
Optic Material	PC		
Holder Material	-		
Fastening	""		
Status	Production ready		

**Product number CN14101_LENINA-S**

Family	Lenina	FWHM	13 degrees
Type	RefPack	Efficiency	91 %
LED	COB L-Type (LES 11)	cd/Im	8.300
Color	Metal	Gerber File	Available
Diameter	74 mm		
Height	44.4 mm		
Style	Round		
Optic Material	-		
Holder Material	-		
Fastening	""		
Status	Production ready		

**Product number C12597_LENINA-S**

Family	Lenina	FWHM	15 degrees
Type	Reflector	Efficiency	87 %
LED	COB L-Type (LES 11)	cd/Im	5.800
Color	Metal	Gerber File	Available
Diameter	74 mm		
Height	40 mm		
Style	Round		
Optic Material	PC		
Holder Material	-		
Fastening	""		
Status	Production ready		

**Product number CN14105_LENINA-S-DL**

Family	Lenina	FWHM	15 degrees
Type	RefPack	Efficiency	87 %
LED	COB L-Type (LES 11)	cd/Im	5.800
Color	Metal	Gerber File	Available
Diameter	74 mm		
Height	46.15 mm		
Style	Round		
Optic Material	PC		
Holder Material	-		
Fastening	["screw"]		
Status	Production ready		

**Product number** C12597_LENINA-S

Family	Lenina	FWHM	17 degrees
Type	Reflector	Efficiency	85 %
LED	COB L-Type (LES 11)	cd/Im	4.700
Color	Metal	Gerber File	Available
Diameter	74 mm		
Height	40 mm		
Style	Round		
Optic Material	PC		
Holder Material	-		
Fastening	""		
Status	Production ready		

**Product number** CN12918_LENINA-S

Family	Lenina	FWHM	17 degrees
Type	RefPack	Efficiency	85 %
LED	COB L-Type (LES 11)	cd/Im	4.700
Color	Metal	Gerber File	Available
Diameter	74 mm		
Height	46.95 mm		
Style	Round		
Optic Material	-		
Holder Material	-		
Fastening	""		
Status	Production ready		

**Product number** C12597_LENINA-S

Family	Lenina	FWHM	18 degrees
Type	Reflector	Efficiency	81 %
LED	COB L-Type (LES 11)	cd/Im	3.700
Color	Metal	Gerber File	Available
Diameter	74 mm		
Height	40 mm		
Style	Round		
Optic Material	PC		
Holder Material	-		
Fastening	""		
Status	Production ready		

**Product number** CN12921_LENINA-S-DL

Family	Lenina	FWHM	18 degrees
Type	RefPack	Efficiency	81 %
LED	COB L-Type (LES 11)	cd/Im	3.700
Color	Metal	Gerber File	Available
Diameter	74 mm		
Height	46.95 mm		
Style	Round		
Optic Material	PC		
Holder Material	-		
Fastening	""		
Status	Production ready		

**Product number C12598_LENINA-M**

Family	Lenina	FWHM	25 degrees
Type	Reflector	Efficiency	91 %
LED	COB L-Type (LES 11)	cd/Im	2.700
Color	Metal	Gerber File	Available
Diameter	74 mm		
Height	40 mm		
Style	Round		
Optic Material	PC		
Holder Material	-		
Fastening	""		
Status	Production ready		

**Product number CN14102_LENINA-M**

Family	Lenina	FWHM	25 degrees
Type	RefPack	Efficiency	91 %
LED	COB L-Type (LES 11)	cd/Im	2.700
Color	Metal	Gerber File	Available
Diameter	74 mm		
Height	46.15 mm		
Style	Round		
Optic Material	-		
Holder Material	-		
Fastening	""		
Status	Production ready		

**Product number C12598_LENINA-M**

Family	Lenina	FWHM	27 degrees
Type	Reflector	Efficiency	84 %
LED	COB L-Type (LES 11)	cd/Im	2.200
Color	Metal	Gerber File	Available
Diameter	74 mm		
Height	40 mm		
Style	Round		
Optic Material	PC		
Holder Material	-		
Fastening	""		
Status	Production ready		

**Product number CN12919_LENINA-M**

Family	Lenina	FWHM	27 degrees
Type	RefPack	Efficiency	84 %
LED	COB L-Type (LES 11)	cd/Im	2.200
Color	Metal	Gerber File	Available
Diameter	74 mm		
Height	46.95 mm		
Style	Round		
Optic Material	-		
Holder Material	-		
Fastening	""		
Status	Production ready		

**Product number C12598_Lenina-M**

Family	Lenina	FWHM	28 degrees
Type	Reflector	Efficiency	87 %
LED	COB L-Type (LES 11)	cd/Im	2.200
Color	Metal	Gerber File	Available
Diameter	74 mm		
Height	40 mm		
Style	Round		
Optic Material	PC		
Holder Material	-		
Fastening	""		
Status	Production ready		

**Product number CN14106_Lenina-M-DL**

Family	Lenina	FWHM	28 degrees
Type	RefPack	Efficiency	87 %
LED	COB L-Type (LES 11)	cd/Im	2.200
Color	Metal	Gerber File	Available
Diameter	74 mm		
Height	46.15 mm		
Style	Round		
Optic Material	PC		
Holder Material	-		
Fastening	""		
Status	Production ready		

**Product number C12598_Lenina-M**

Family	Lenina	FWHM	29 degrees
Type	Reflector	Efficiency	79 %
LED	COB L-Type (LES 11)	cd/Im	1.800
Color	Metal	Gerber File	Available
Diameter	74 mm		
Height	40 mm		
Style	Round		
Optic Material	PC		
Holder Material	-		
Fastening	""		
Status	Production ready		

**Product number CN12922_Lenina-M-DL**

Family	Lenina	FWHM	29 degrees
Type	RefPack	Efficiency	79 %
LED	COB L-Type (LES 11)	cd/Im	1.800
Color	Metal	Gerber File	Available
Diameter	74 mm		
Height	46.95 mm		
Style	Round		
Optic Material	PC		
Holder Material	-		
Fastening	""		
Status	Production ready		

**Product number** C12599_LENINA-W

Family	Lenina	FWHM	56 degrees
Type	Reflector	Efficiency	85 %
LED	COB L-Type (LES 11)	cd/Im	1.000
Color	Metal	Gerber File	Available
Diameter	74 mm		
Height	40 mm		
Style	Round		
Optic Material	PC		
Holder Material	-		
Fastening	""		
Status	Production ready		

**Product number** CN12920_LENINA-W

Family	Lenina	FWHM	56 degrees
Type	RefPack	Efficiency	85 %
LED	COB L-Type (LES 11)	cd/Im	1.000
Color	Metal	Gerber File	Available
Diameter	74 mm		
Height	46.95 mm		
Style	Round		
Optic Material	-		
Holder Material	-		
Fastening	""		
Status	Production ready		

**Product number** C12599_LENINA-W

Family	Lenina	FWHM	58 degrees
Type	Reflector	Efficiency	80 %
LED	COB L-Type (LES 11)	cd/Im	0.900
Color	Metal	Gerber File	Available
Diameter	74 mm		
Height	40 mm		
Style	Round		
Optic Material	PC		
Holder Material	-		
Fastening	""		
Status	Production ready		

**Product number** CN12923_LENINA-W-DL

Family	Lenina	FWHM	58 degrees
Type	RefPack	Efficiency	80 %
LED	COB L-Type (LES 11)	cd/Im	0.900
Color	Metal	Gerber File	Available
Diameter	74 mm		
Height	46.95 mm		
Style	Round		
Optic Material	PC		
Holder Material	-		
Fastening	""		
Status	Production ready		

**Product number C12958_LENINA-XW**

Family	Lenina	FWHM	71 degrees
Type	Reflector	Efficiency	82 %
LED	COB L-Type (LES 11)	cd/Im	0.600
Color	White	Gerber File	Available
Diameter	74 mm		
Height	40 mm		
Style	Round		
Optic Material	HRPC		
Holder Material	-		
Fastening	""		
Status	Production ready		

**Product number CN12976_LENINA-XW-DL**

Family	Lenina	FWHM	71 degrees
Type	RefPack	Efficiency	82 %
LED	COB L-Type (LES 11)	cd/Im	0.600
Color	White	Gerber File	Available
Diameter	74 mm		
Height	46.95 mm		
Style	Round		
Optic Material	HRPC		
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 C12958_LENINA-XW**

Family	Lenina	FWHM	73 degrees
Type	Reflector	Efficiency	89 %
LED	COB L-Type (LES 11)	cd/Im	0.580
Color	White	Gerber File	Available
Diameter	74 mm		
Height	40 mm		
Style	Round		
Optic Material	HRPC		
Holder Material	-		
Fastening	""		
Status	Production ready		

**Product number CN14108_LENINA-XW-DL**

Family	Lenina	FWHM	73 degrees
Type	RefPack	Efficiency	89 %
LED	COB L-Type (LES 11)	cd/Im	0.580
Color	Metal	Gerber File	Available
Diameter	74 mm		
Height	46.15 mm		
Style	Round		
Optic Material	HRPC		
Holder Material	-		
Fastening	-		
Status	Production ready		

**Product number C12958_LENINA-XW**

Family	Lenina	FWHM	75 degrees
Type	Reflector	Efficiency	93 %
LED	COB L-Type (LES 11)	cd/lm	0.630
Color	White	Gerber File	Available
Diameter	74 mm		
Height	40 mm		
Style	Round		
Optic Material	HRPC		
Holder Material	-		
Fastening	""		
Status	Production ready		

**Product number CN14104_LENINA-XW**

Family	Lenina	FWHM	75 degrees
Type	RefPack	Efficiency	93 %
LED	COB L-Type (LES 11)	cd/lm	0.630
Color	Metal	Gerber File	Available
Diameter	74 mm		
Height	44.4 mm		
Style	Round		
Optic Material	-		
Holder Material	-		
Fastening	""		
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.



PRODUCT DATASHEET

Lenina series

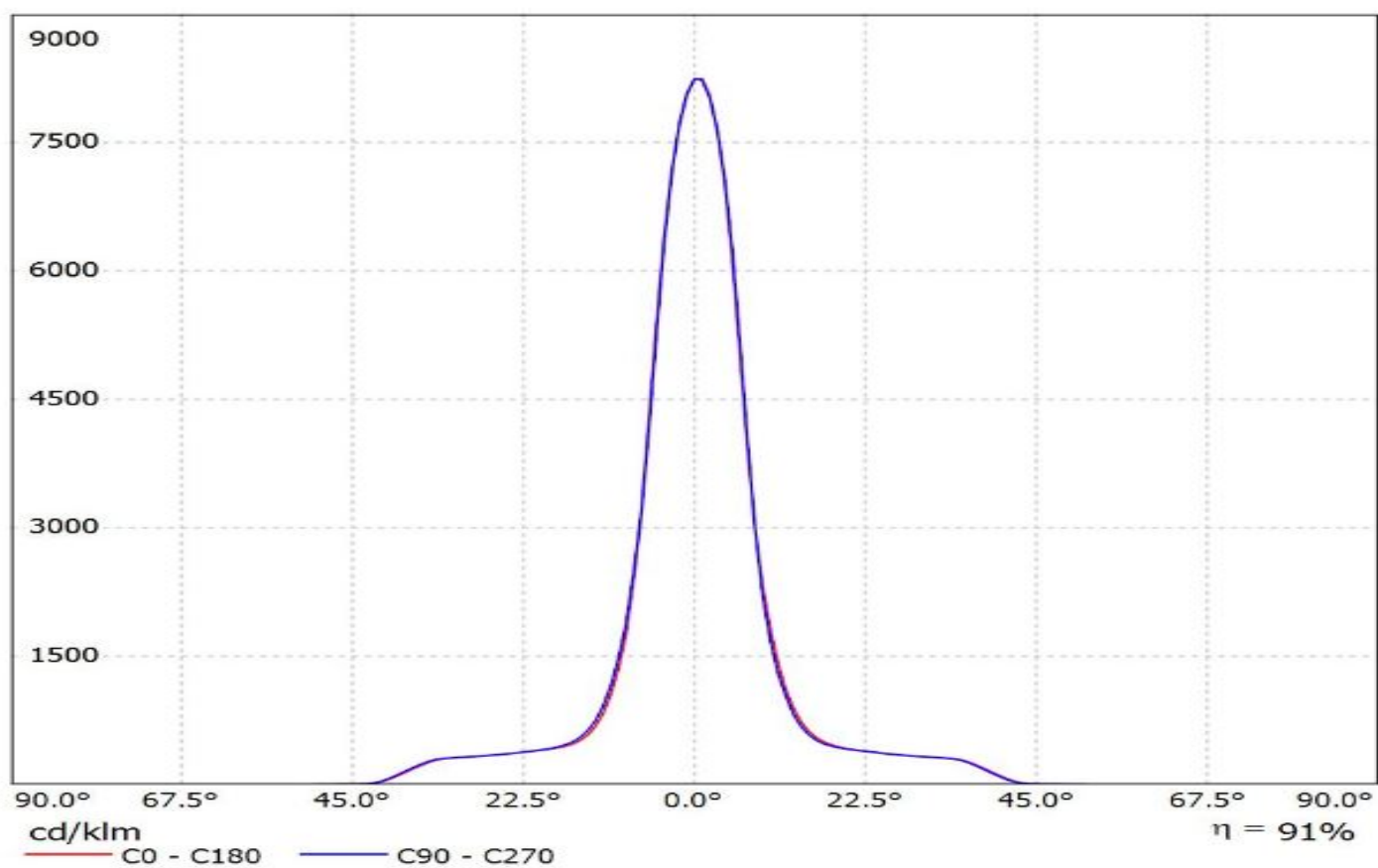
last update 2/11/2016

GENERAL INFORMATION

- Product series especially designed & optimized for COB L-Type (LES 11) 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).

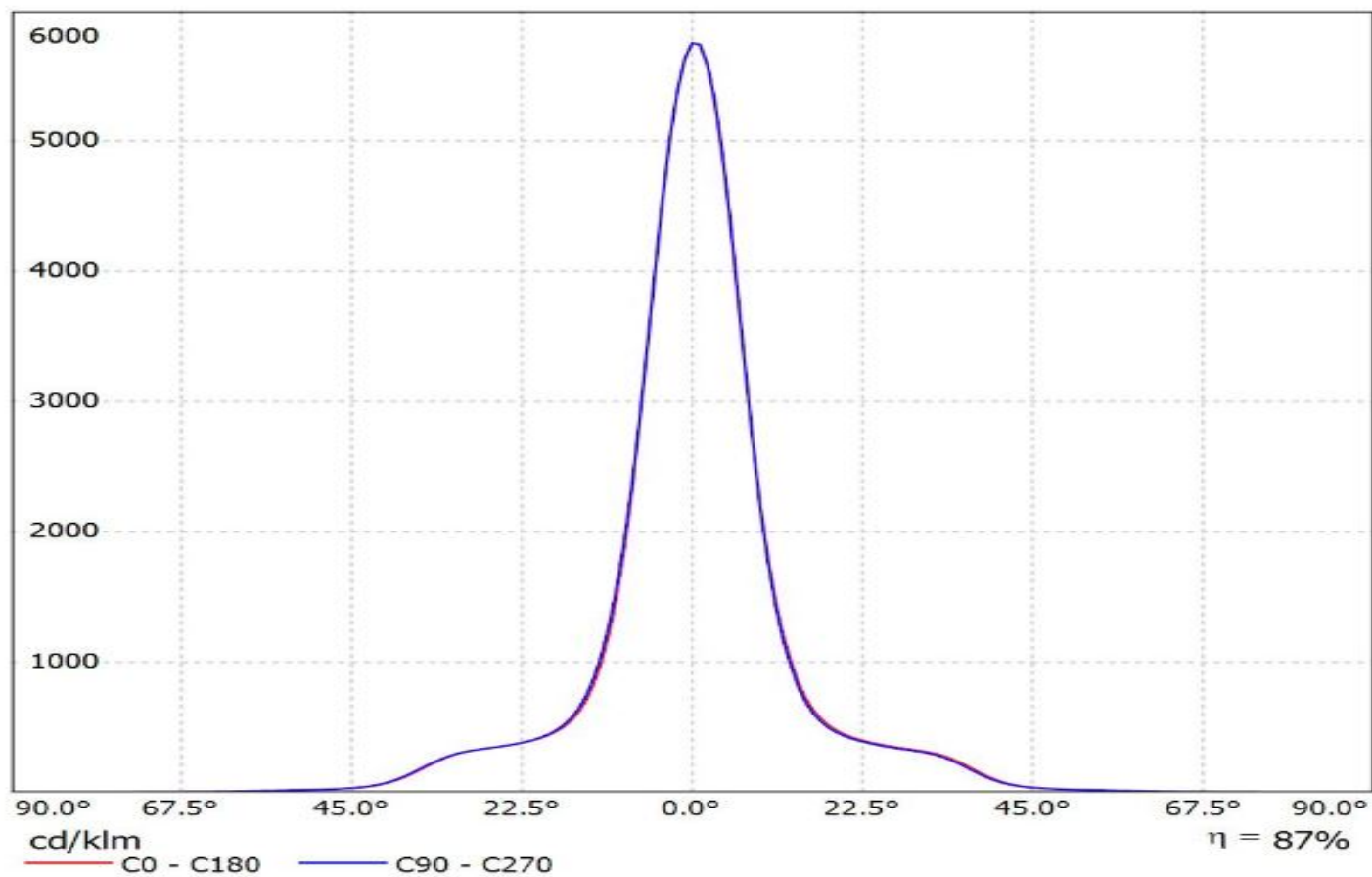
Note! Due to use of high power COB's with this product, special attention to proper thermal design is highly recommended. LEDiL has no liability for direct, indirect or consecutive damages arising from the LEDiL products being used outside of the recommended temperature range.

Luminaire: Ledil CN14101_LENINA-S_(NFCLL060B)
Lamps: 1 x Nichia_NFCLL060B_(438 Typ L1)_C13868_LENA-STD-BASE-VERO13-18_1323.62lm@250mA_P=8.75W_I=0.25A



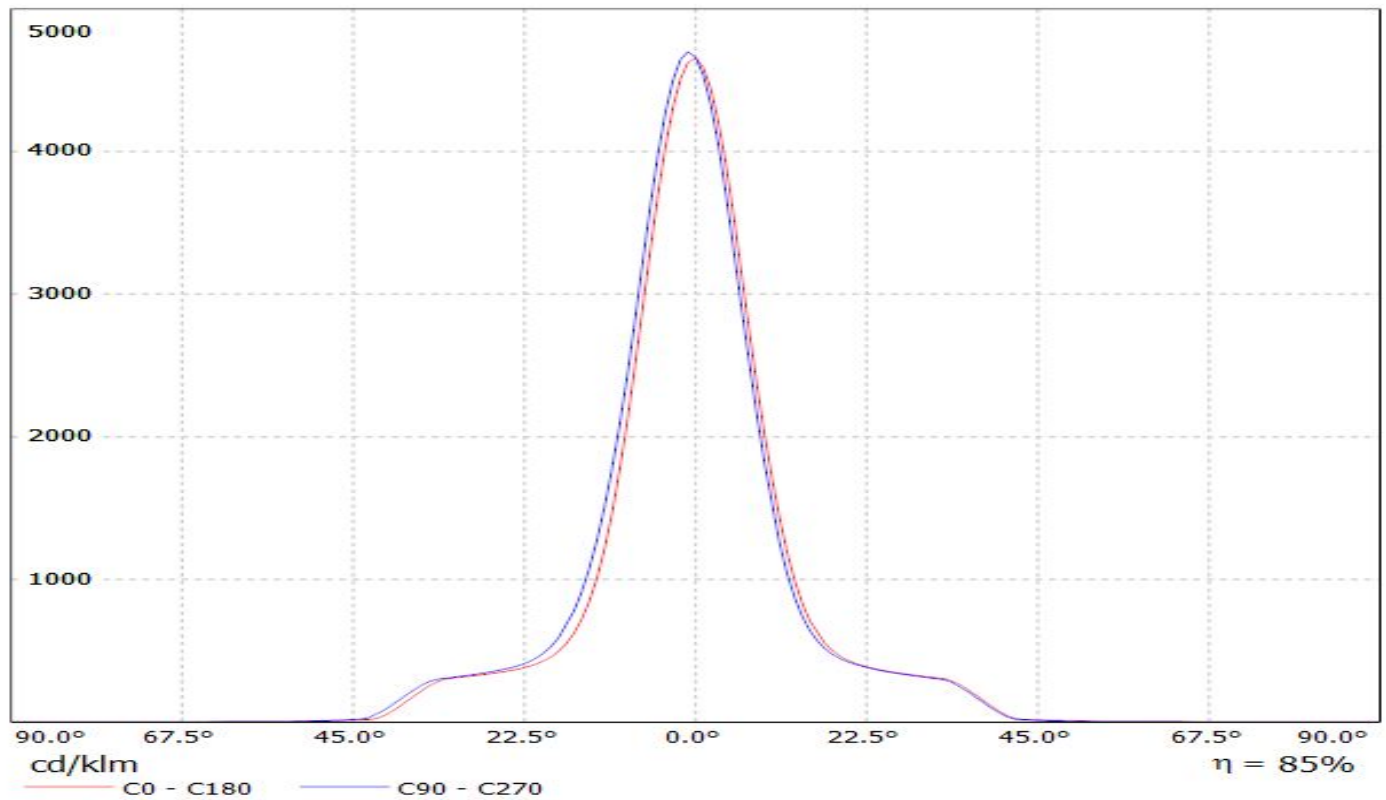
Luminaire: Ledil CN14105_LENINA-S-DL_(NFCLL060B)

Lamps: 1 x Nichia_NFCLL060B_(438 Typ L1)_C13868_LENA-STD-BASE-VERO13-18_1323.62lm@250mA_P=8.75W_I=0.25A



**LEDiL Oy CN12918_LENINA-S_(NICHIA_NSBxL121A) Eff.85.2% / LDC
(Linear)**

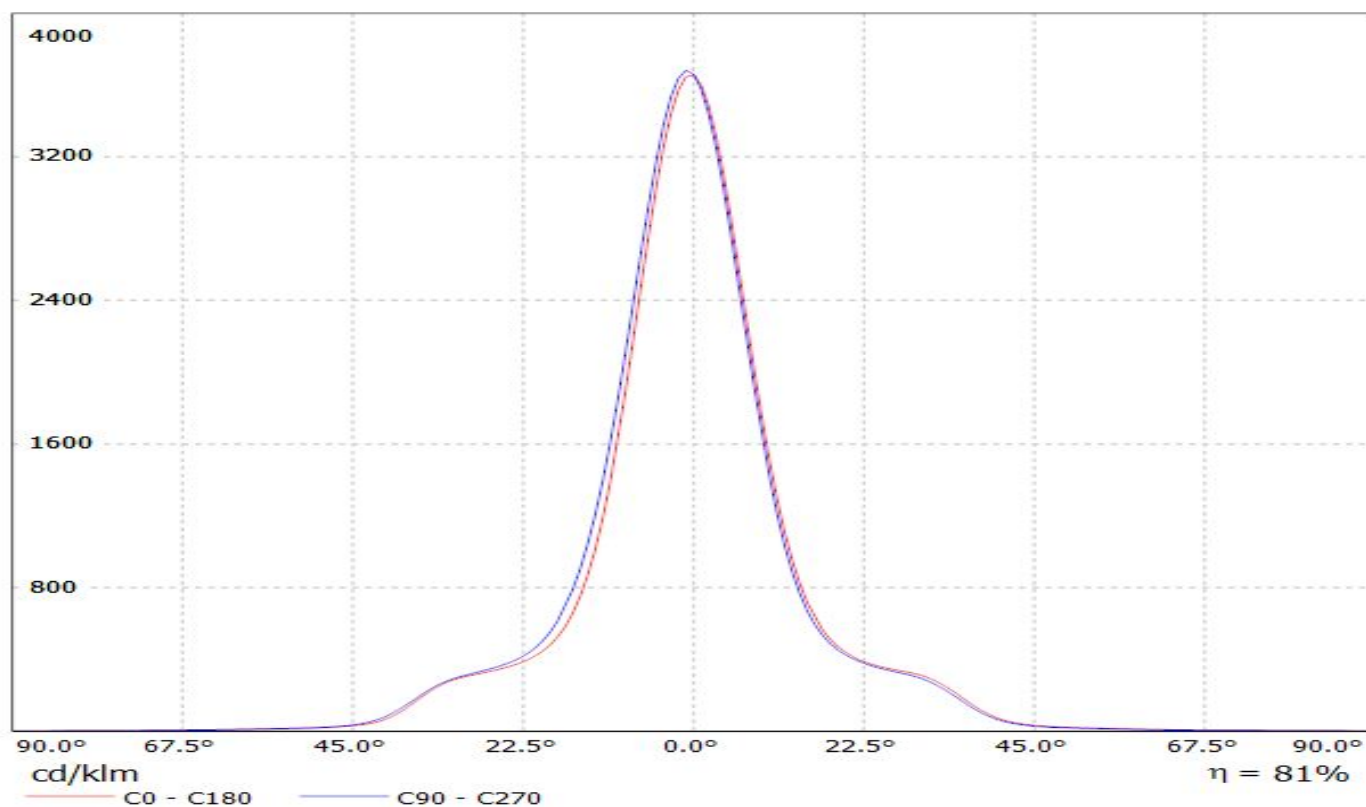
Luminaire: LEDiL Oy CN12918_LENINA-S_(NICHIA_NSBxL121A) Eff.85.2%
Lamps: 1 x NICHIA_NSBxL121A_(NSBLL121AE)_978.131lm@250mA CCT=3000K P=7.57294W
I=249.8mA



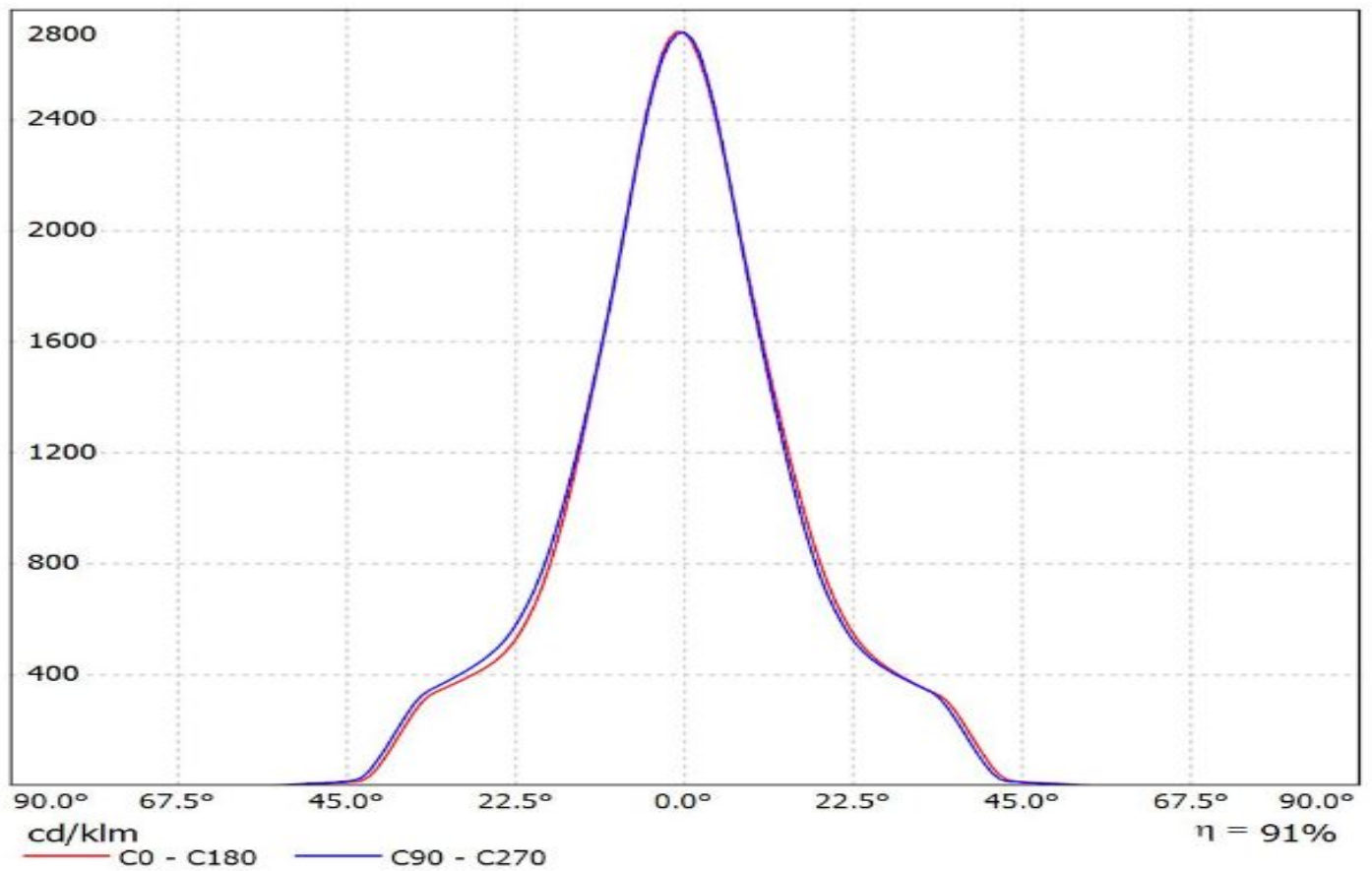
**LEDiL Oy CN12921_LENINA-S-DL_(NICHIA_NSBxL121A) Eff.80.6% / LDC
(Linear)**

Luminaire: LEDiL Oy CN12921_LENINA-S-DL_(NICHIA_NSBxL121A) Eff.80.6%

Lamps: 1 x NICHIA_NSBxL121A_(NSBLL121AE)_978.131lm@250mA CCT=3000K P=7.57294W
I=249.8mA



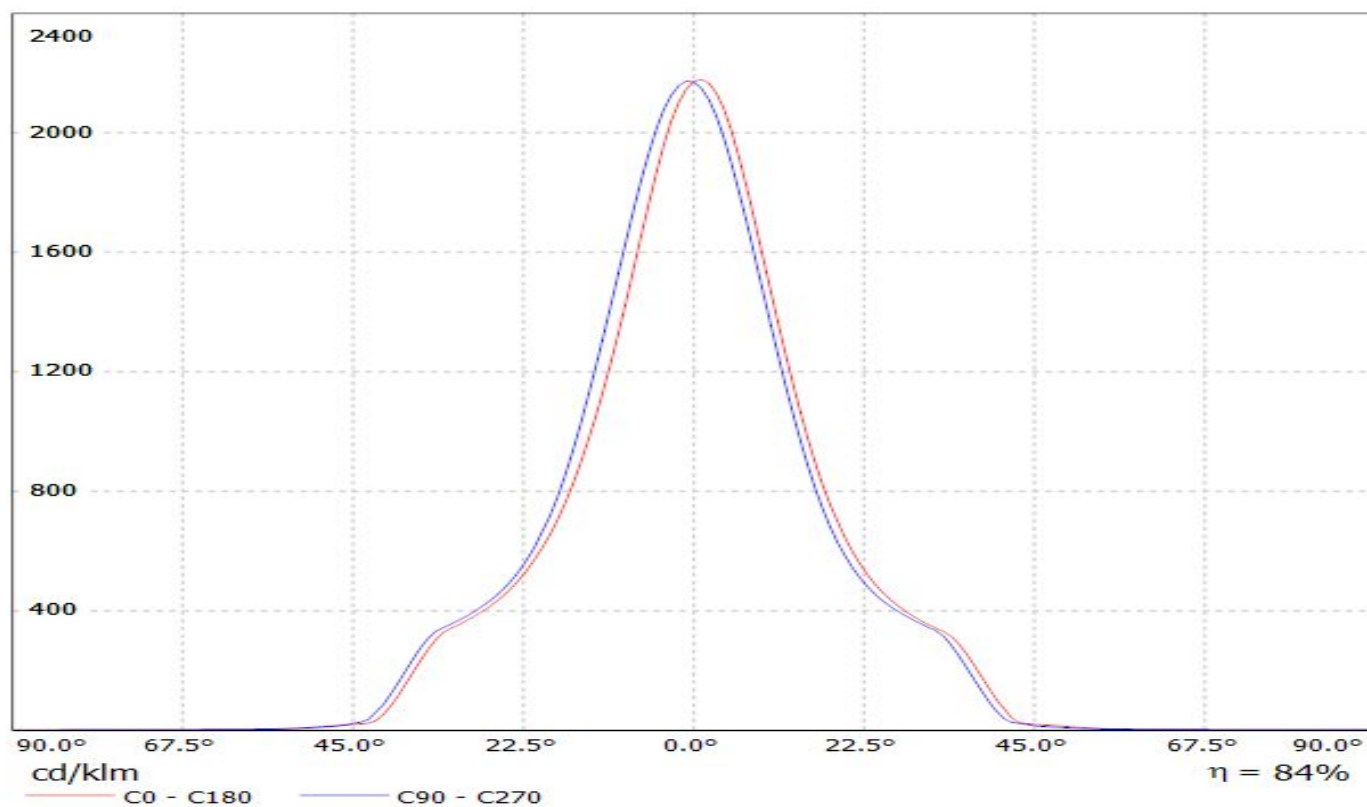
Luminaire: Ledil CN14102_LENINA-M_(NFCLL060B)
Lamps: 1 x Nichia_NFCLL060B_(438 Typ L1)_C13868_LENA-STD-BASE-VERO13-
18_1323.62lm@250mA_P=8.75W_I=0.25A



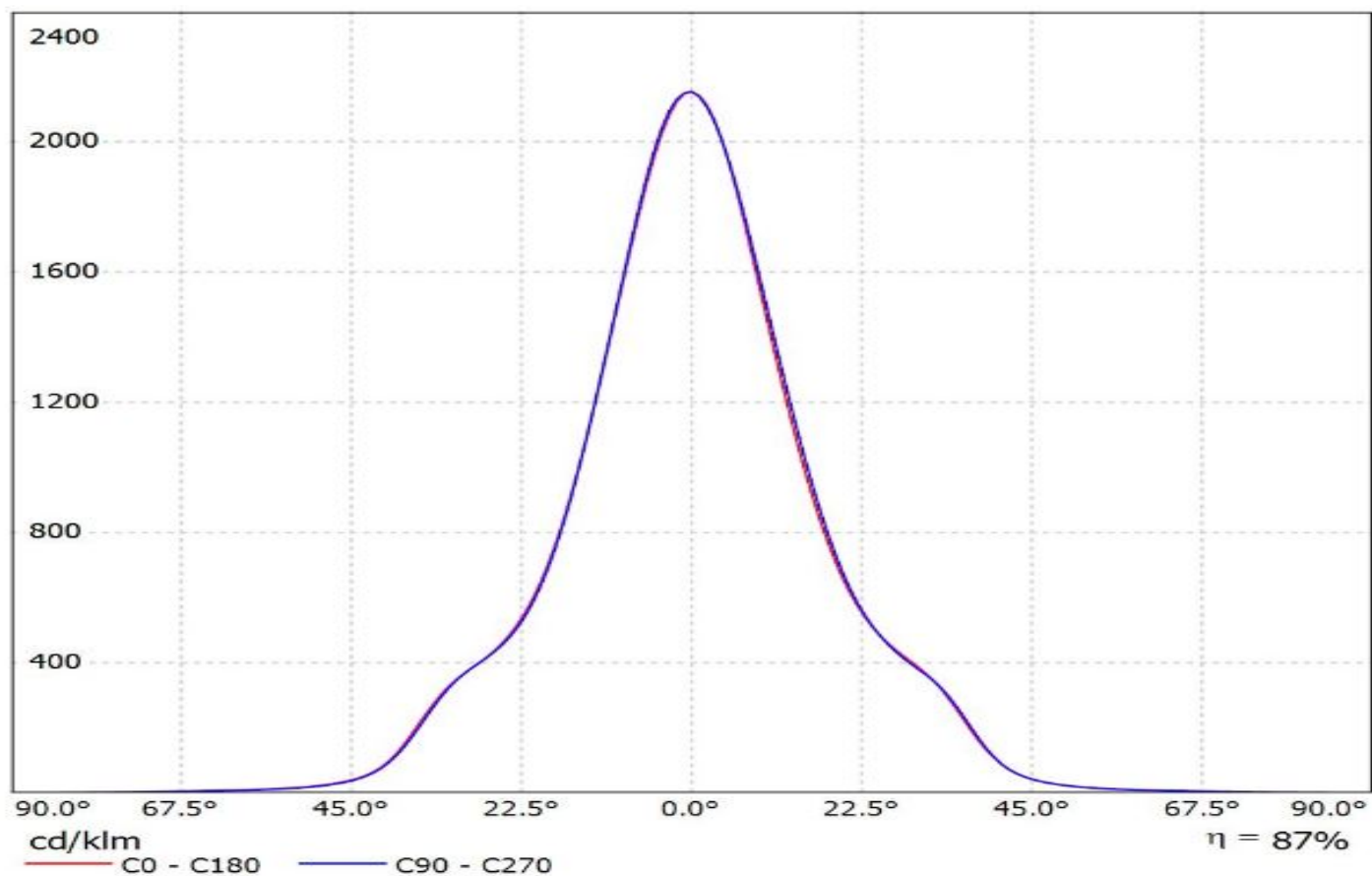
**LEDiL Oy CN12919_LENINA-M_(NICHIA_NSBxL121A) Eff.83.9% / LDC
(Linear)**

Luminaire: LEDiL Oy CN12919_LENINA-M_(NICHIA_NSBxL121A) Eff.83.9%

Lamps: 1 x NICHIA_NSBxL121A_(NSBLL121AE)_978.131lm@250mA CCT=3000K P=7.57294W
I=249.8mA



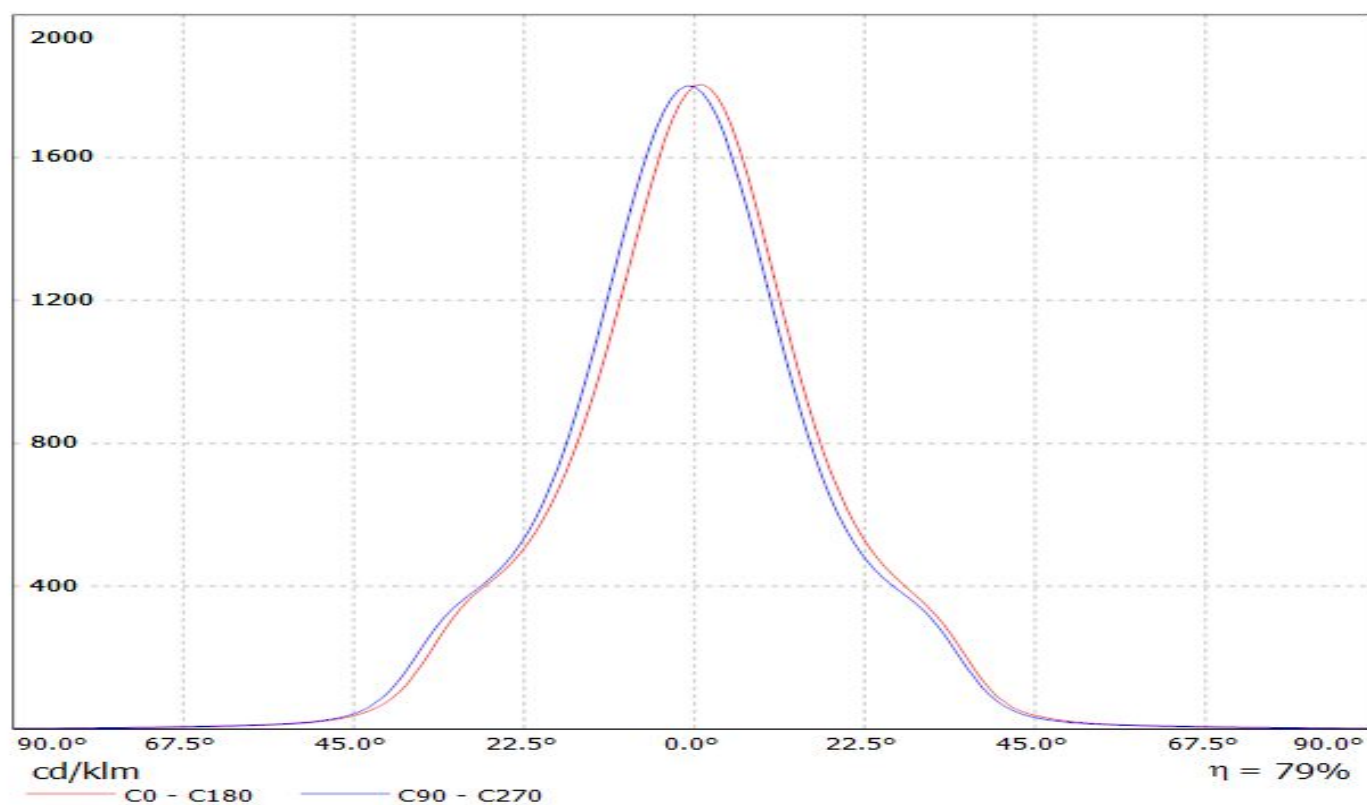
Luminaire: Ledil CN14106_LENINA-M-DL_(NFCLL060B)
Lamps: 1 x Nichia_NFCLL060B_(438 Typ L1)_C13868_LENA-STD-BASE-VERO13-
18_1323.62lm@250mA_P=8.75W_I=0.25A



**LEDiL Oy CN12922_LENINA-M-DL_(NICHIA_NSBxL121A) Eff.79.4% / LDC
(Linear)**

Luminaire: LEDiL Oy CN12922_LENINA-M-DL_(NICHIA_NSBxL121A) Eff.79.4%

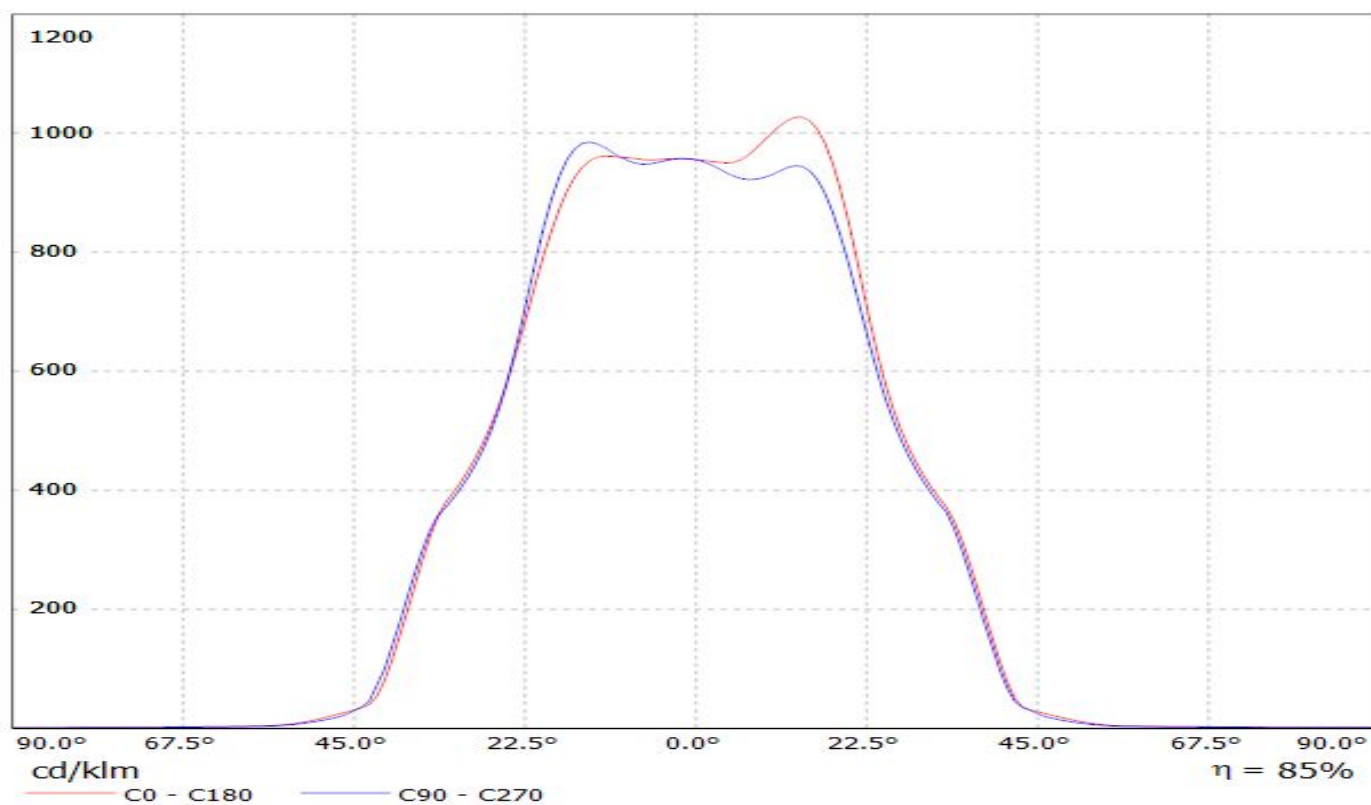
Lamps: 1 x NICHIA_NSBxL121A_(NSBLL121AE)_978.131lm@250mA CCT=3000K P=7.57294W
I=249.8mA



**LEDiL Oy CN12920_LENINA-W_(NICHIA_NSBxL121A) Eff.84.7% / LDC
(Linear)**

Luminaire: LEDiL Oy CN12920_LENINA-W_(NICHIA_NSBxL121A) Eff.84.7%

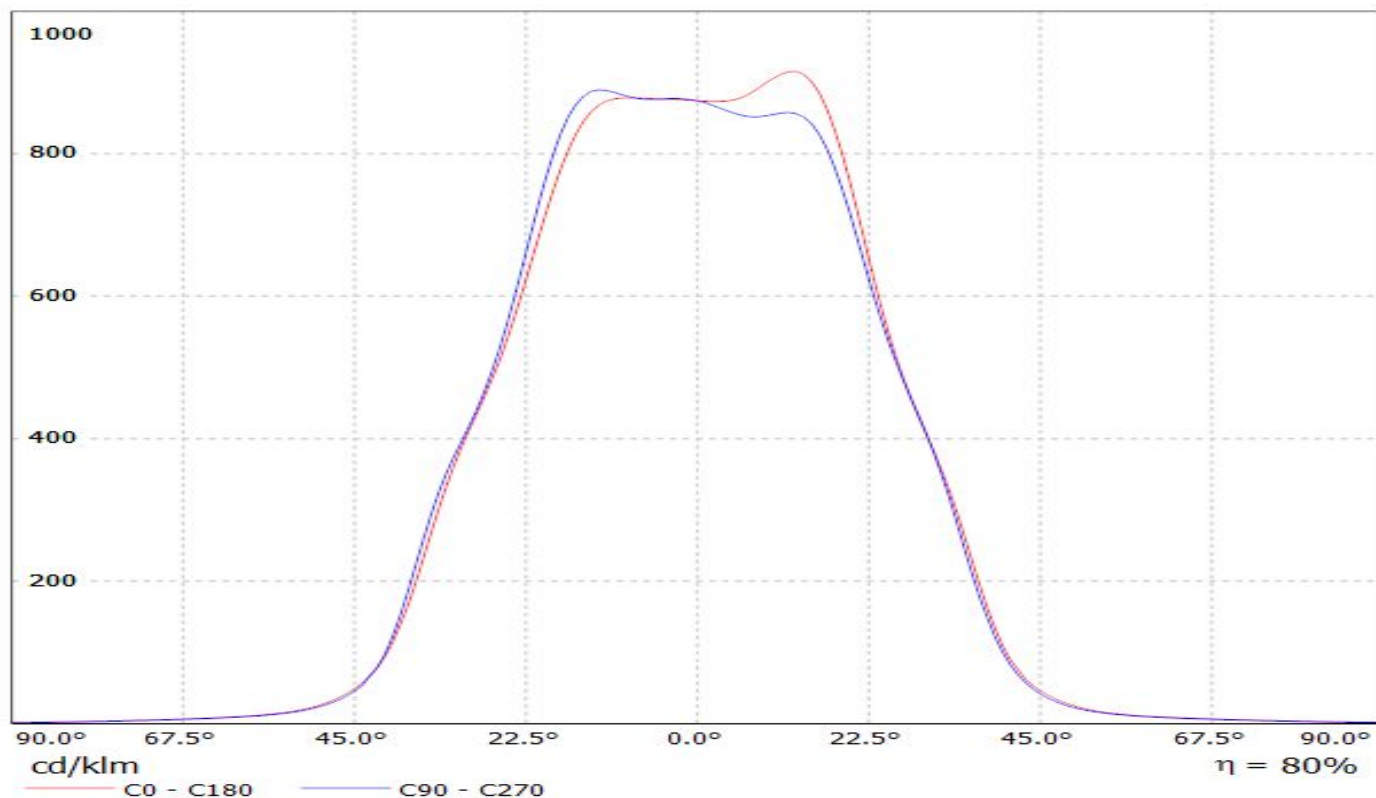
Lamps: 1 x NICHIA_NSBxL121A_(NSBLL121AE)_978.131lm@250mA CCT=3000K P=7.57294W
I=249.8mA



**LEDiL Oy CN12923_LENINA-W-DL_(NICHIA_NSBxL121A) Eff.80.2% / LDC
(Linear)**

Luminaire: LEDiL Oy CN12923_LENINA-W-DL_(NICHIA_NSBxL121A) Eff.80.2%

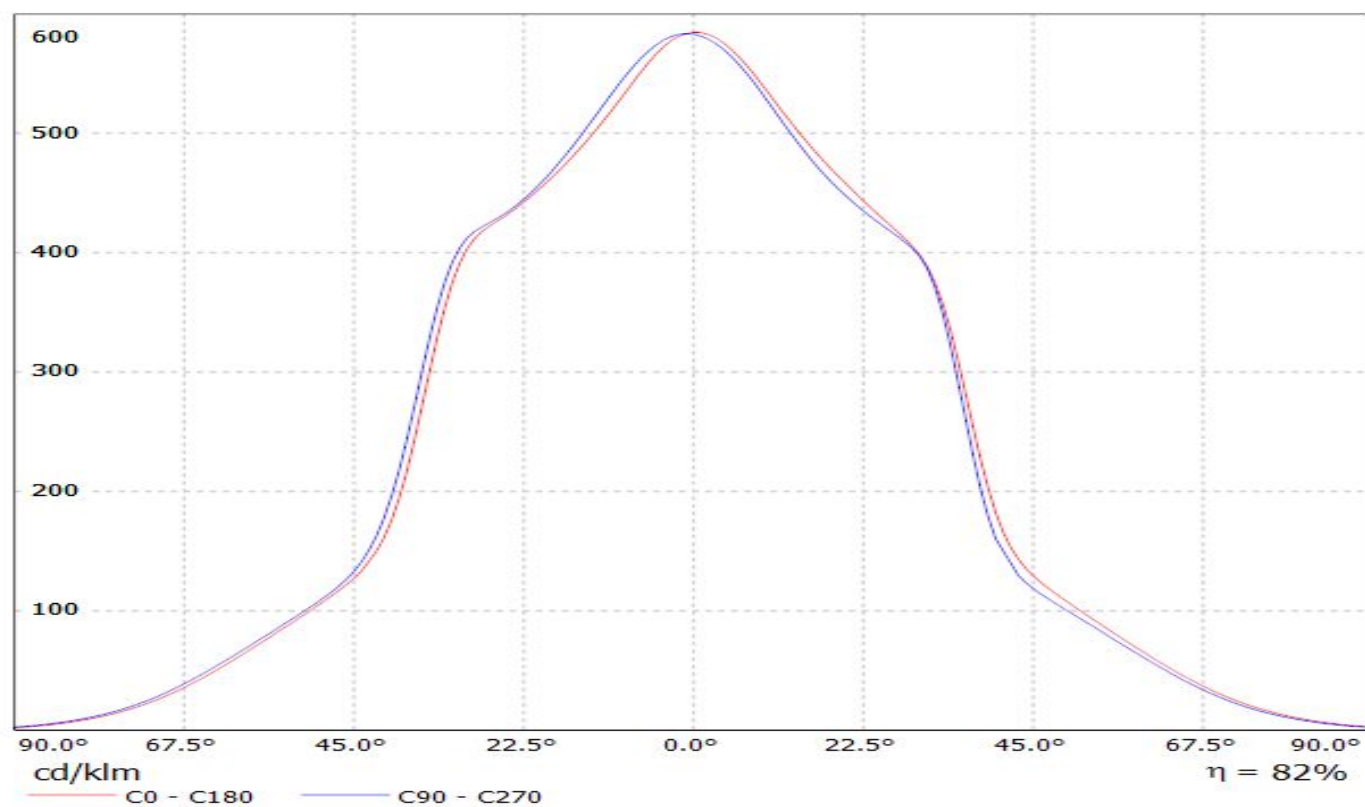
Lamps: 1 x NICHIA_NSBxL121A_(NSBLL121AE)_978.131lm@250mA CCT=3000K P=7.57294W
I=249.8mA



**LEDiL Oy C12958_LENINA-XW+DL_(NICHIA_NSBxL121A) Eff.81.8% / LDC
(Linear)**

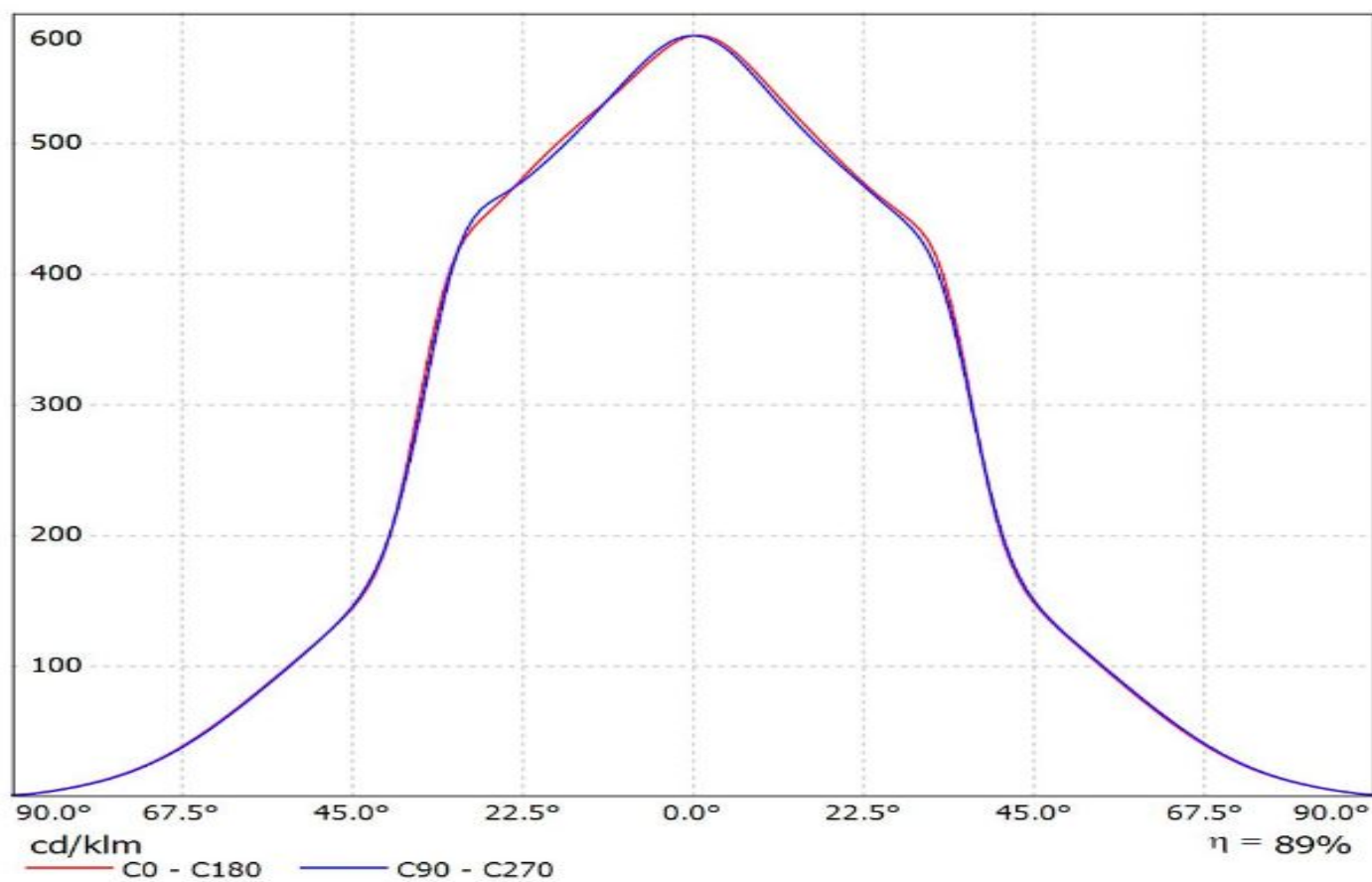
Luminaire: LEDiL Oy C12958_LENINA-XW+DL_(NICHIA_NSBxL121A) Eff.81.8%

Lamps: 1 x NICHIA_NSBxL121A_(NSBLL121AE)_978.131lm@250mA CCT=3000K P=7.57294W
I=249.8mA



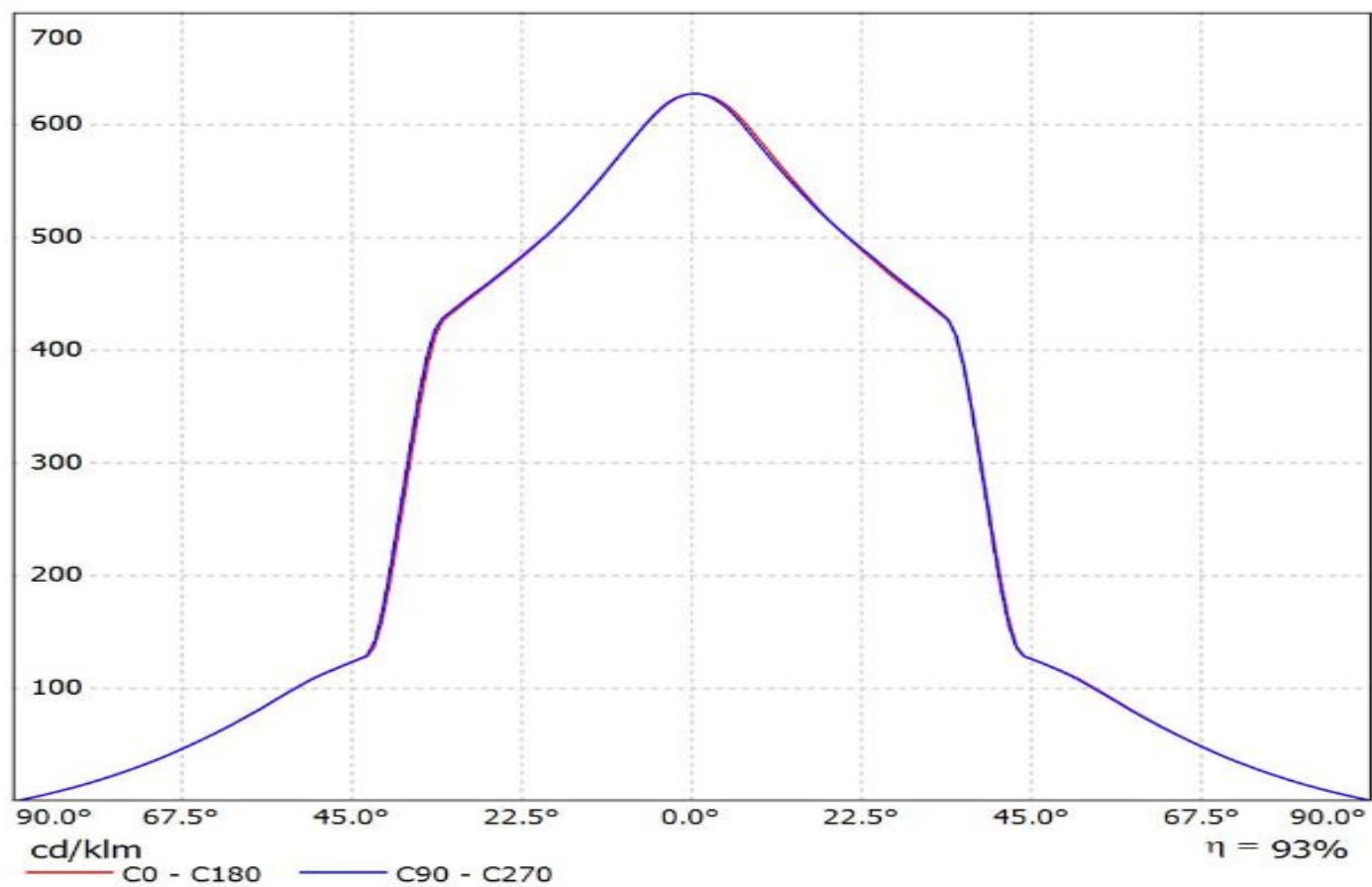
Luminaire: Ledil CN14108_LENINA-XW-DL_(NFCLL060B)

Lamps: 1 x Nichia_NFCLL060B_(438 Typ L1)_C13868_LENA-STD-BASE-VERO13-18_1323.62lm@250mA_P=8.75W_I=0.25A



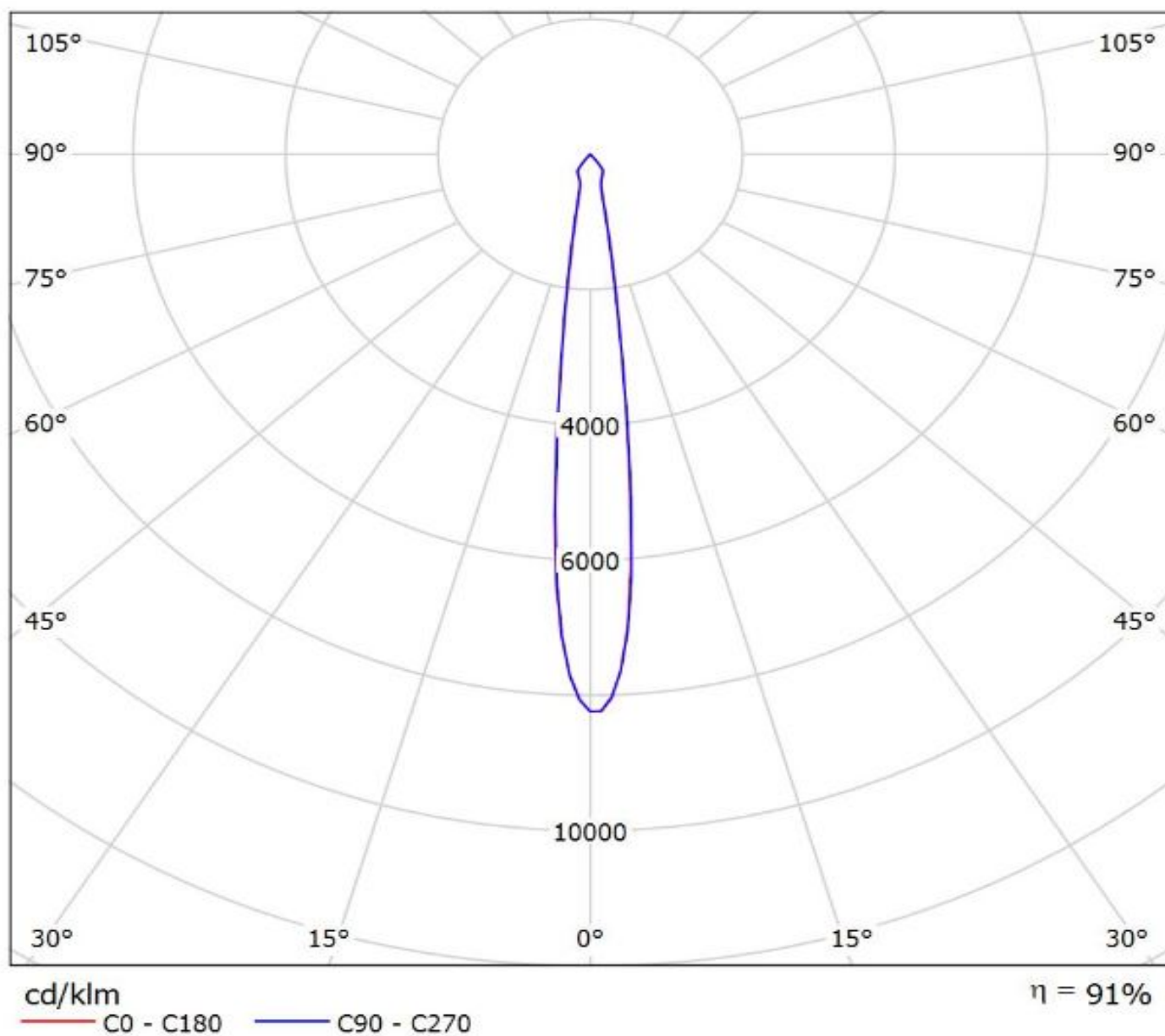
Luminaire: Ledil CN14104_LENINA-XW_(NFCLL060B)

Lamps: 1 x Nichia_NFCLL060B_(438 Typ L1)_C13868_LENINA-STD-BASE-VERO13-18_1323.62lm@250mA_P=8.75W_I=0.25A



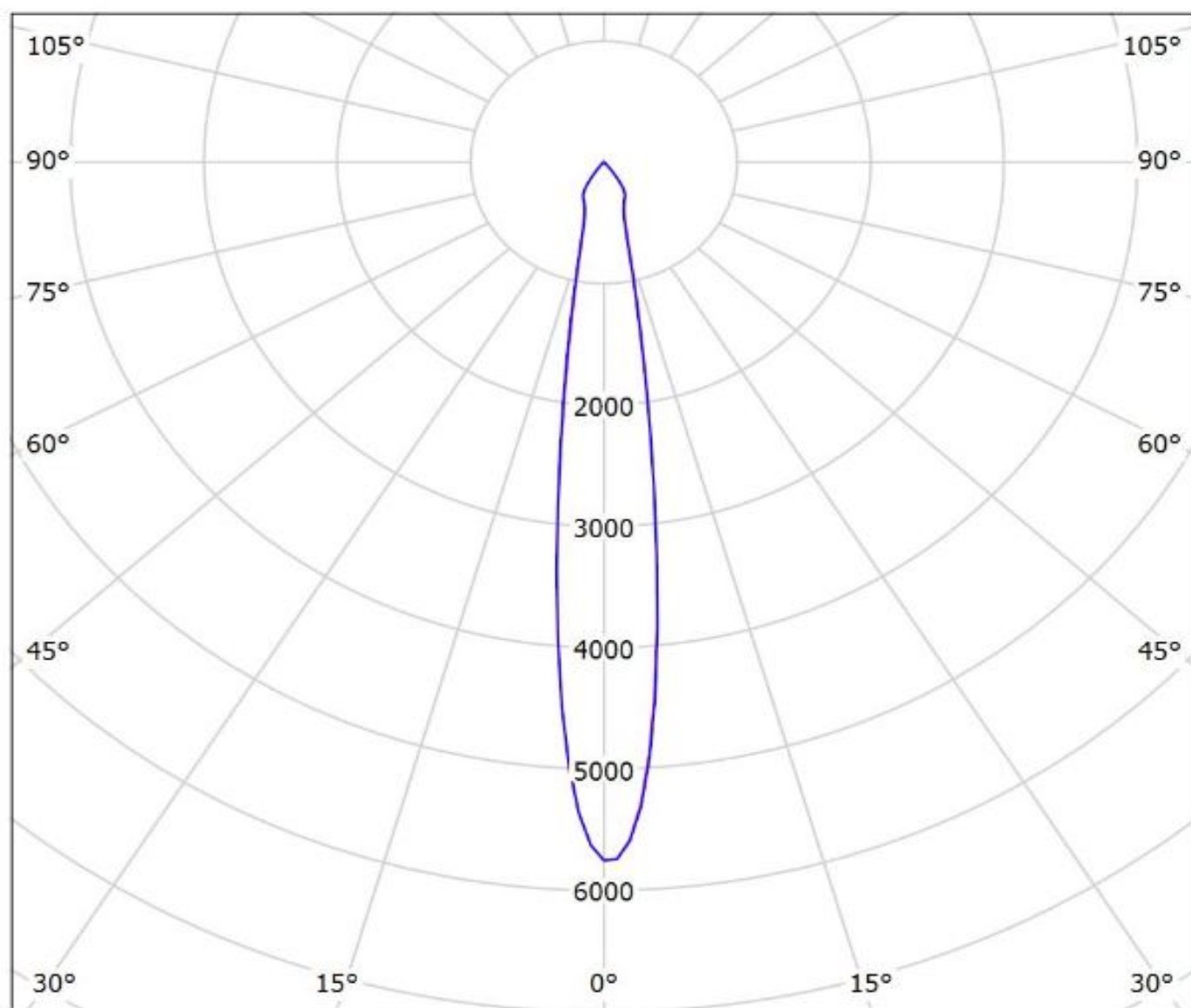
Luminaire: Ledil CN14101_LENINA-S_(NFCLL060B)

Lamps: 1 x Nichia_NFCLL060B_(438 Typ L1)_C13868_LENINA-STD-BASE-VERO13-18_1323.62lm@250mA_P=8.75W_I=0.25A



Luminaire: Ledil CN14105_LENINA-S-DL_(NFCLL060B)

Lamps: 1 x Nichia_NFCLL060B_(438 Typ L1)_C13868_LENA-STD-BASE-VERO13-18_1323.62lm@250mA_P=8.75W_I=0.25A



cd/klm

— C0 - C180

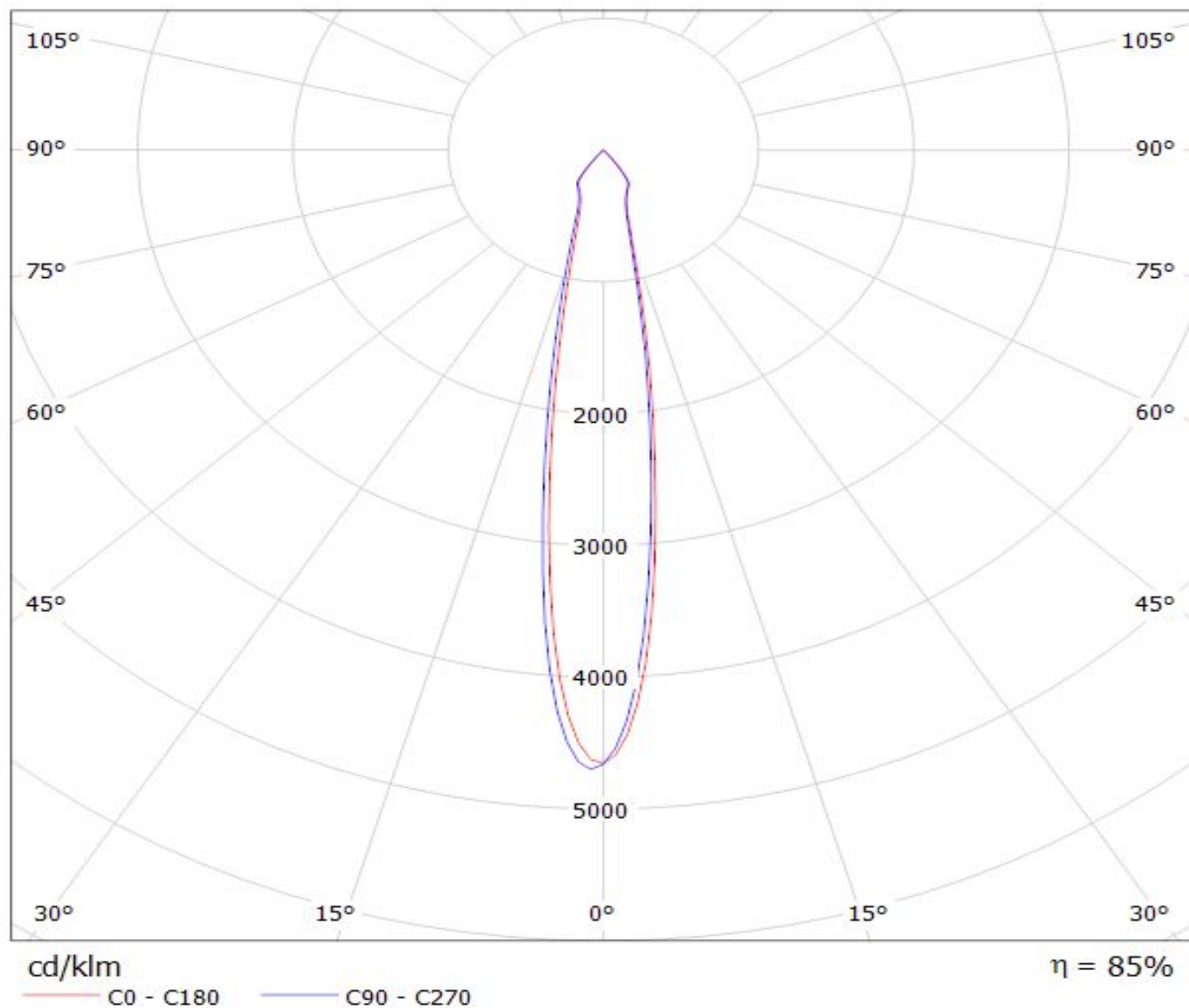
— C90 - C270

$\eta = 87\%$

LEDiL Oy CN12918_LENINA-S_(NICHIA_NSBxL121A) Eff.85.2% / LDC (Polar)

Luminaire: LEDiL Oy CN12918_LENINA-S_(NICHIA_NSBxL121A) Eff.85.2%

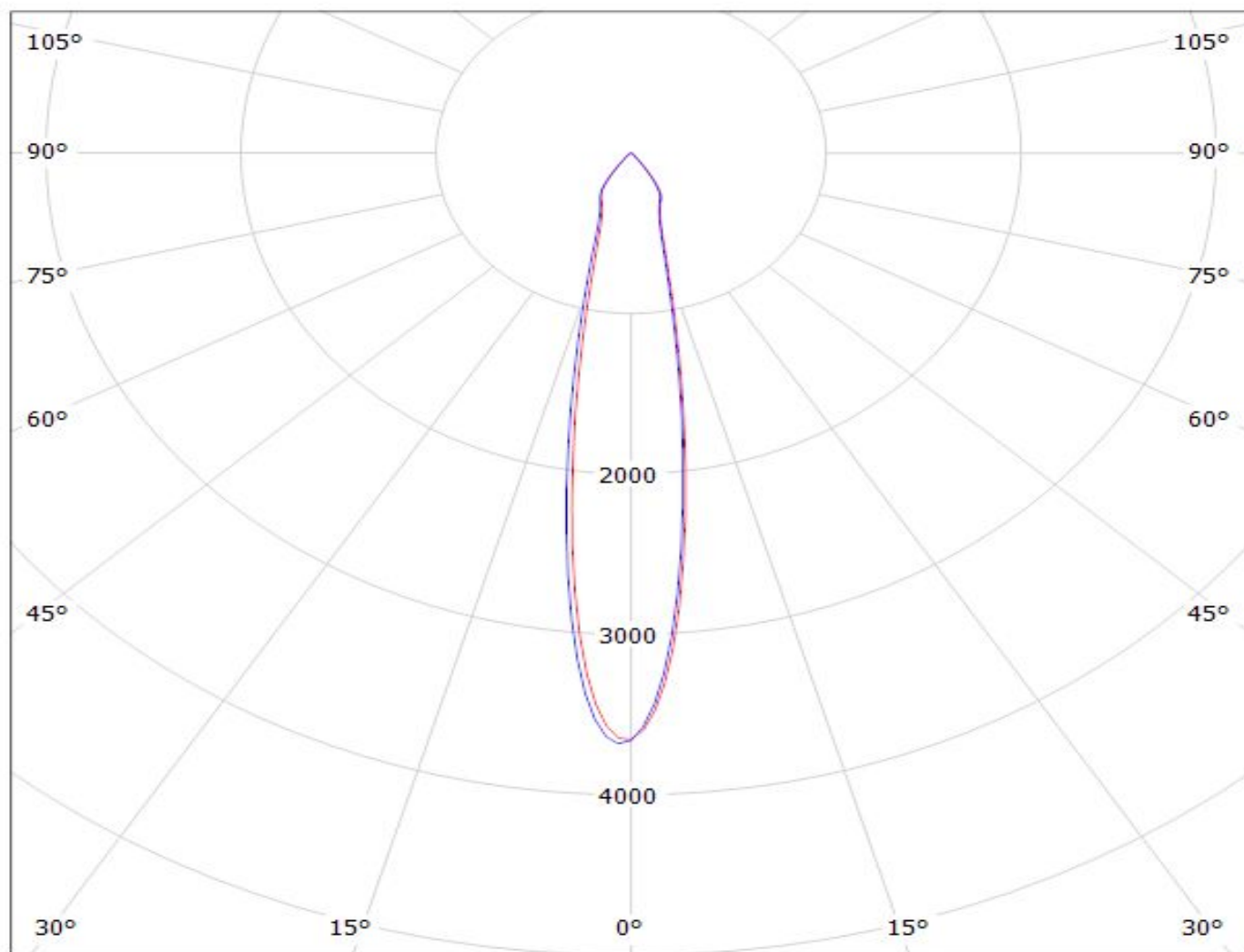
Lamps: 1 x NICHIA_NSBxL121A_(NSBLL121AE)_978.131lm@250mA CCT=3000K P=7.57294W
I=249.8mA



LEDiL Oy CN12921_LENINA-S-DL_(NICHIA_NSBxL121A) Eff.80.6% / LDC (Polar)

Luminaire: LEDiL Oy CN12921_LENINA-S-DL_(NICHIA_NSBxL121A) Eff.80.6%

Lamps: 1 x NICHIA_NSBxL121A_(NSBLL121AE)_978.13lm@250mA CCT=3000K P=7.57294W
I=249.8mA



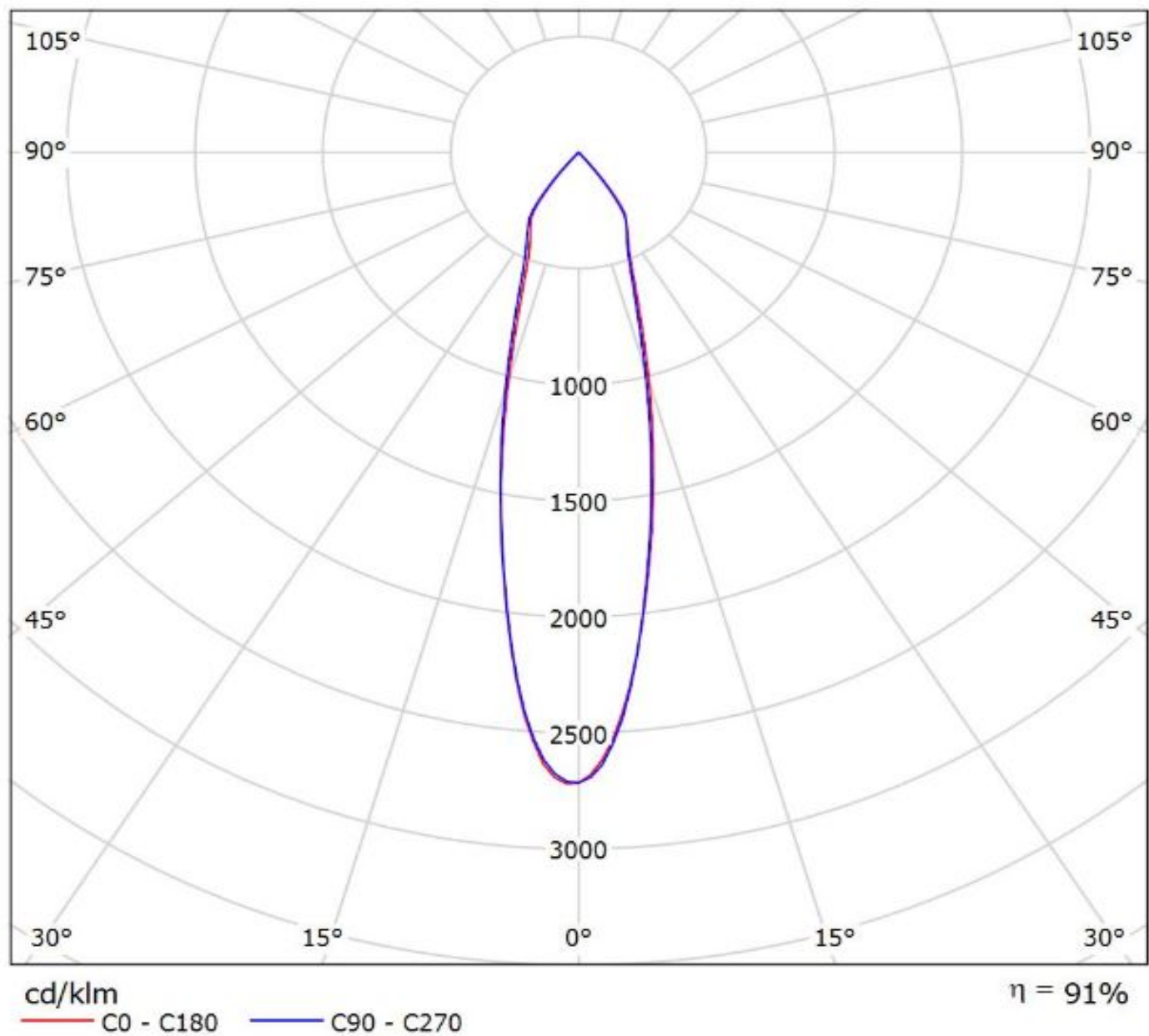
cd/klm

C0 - C180

C90 - C270

$\eta = 81\%$

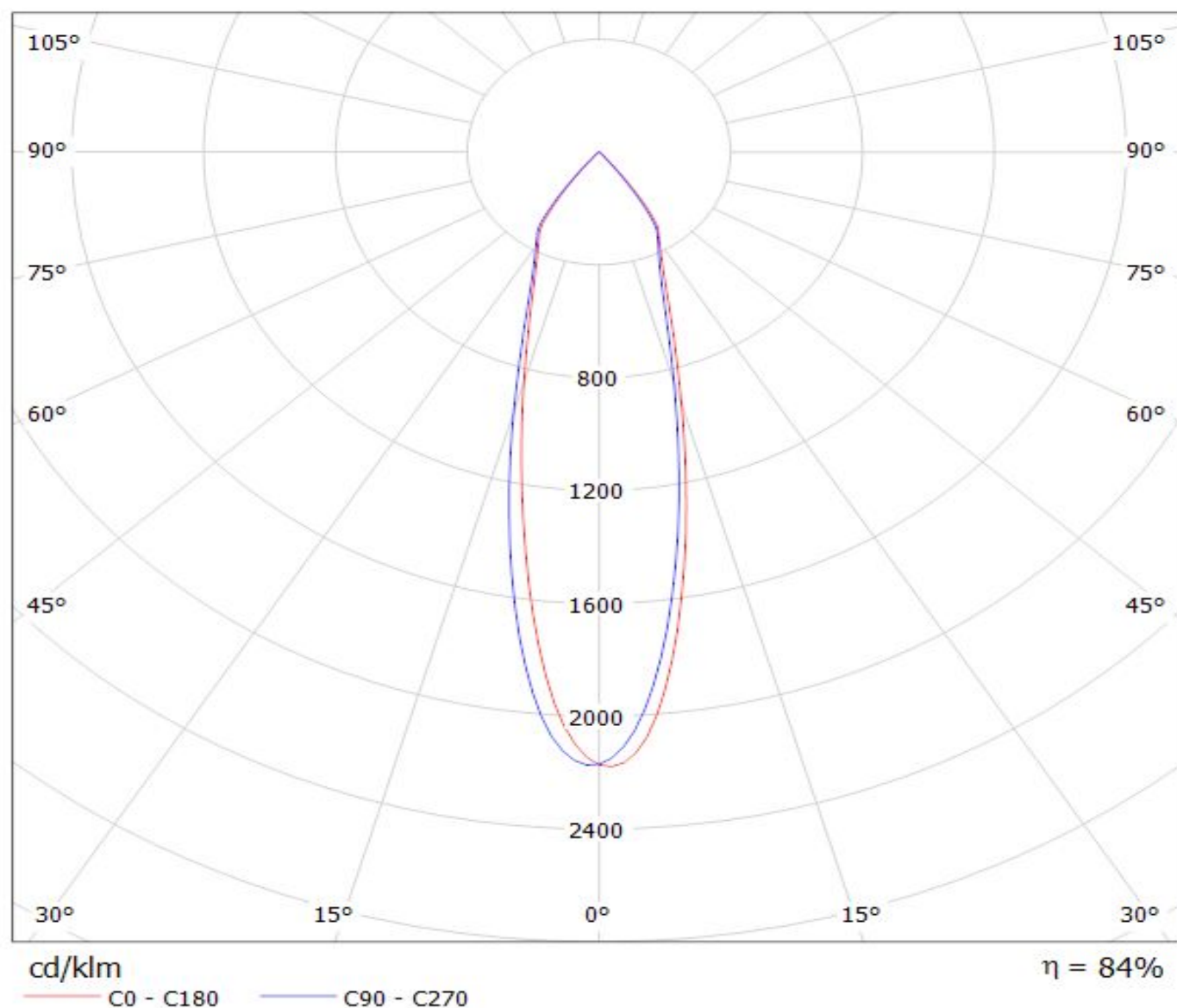
Luminaire: Ledil CN14102_LENINA-M (NFCLL060B)
Lamps: 1 x Nichia_NFCLL060B (438 Typ L1)_C13868_LENINA-STD-BASE-VERO13-18_1323.62lm@250mA_P=8.75W_I=0.25A



LEDiL Oy CN12919_LENINA-M_(NICHIA_NSBxL121A) Eff.83.9% / LDC (Polar)

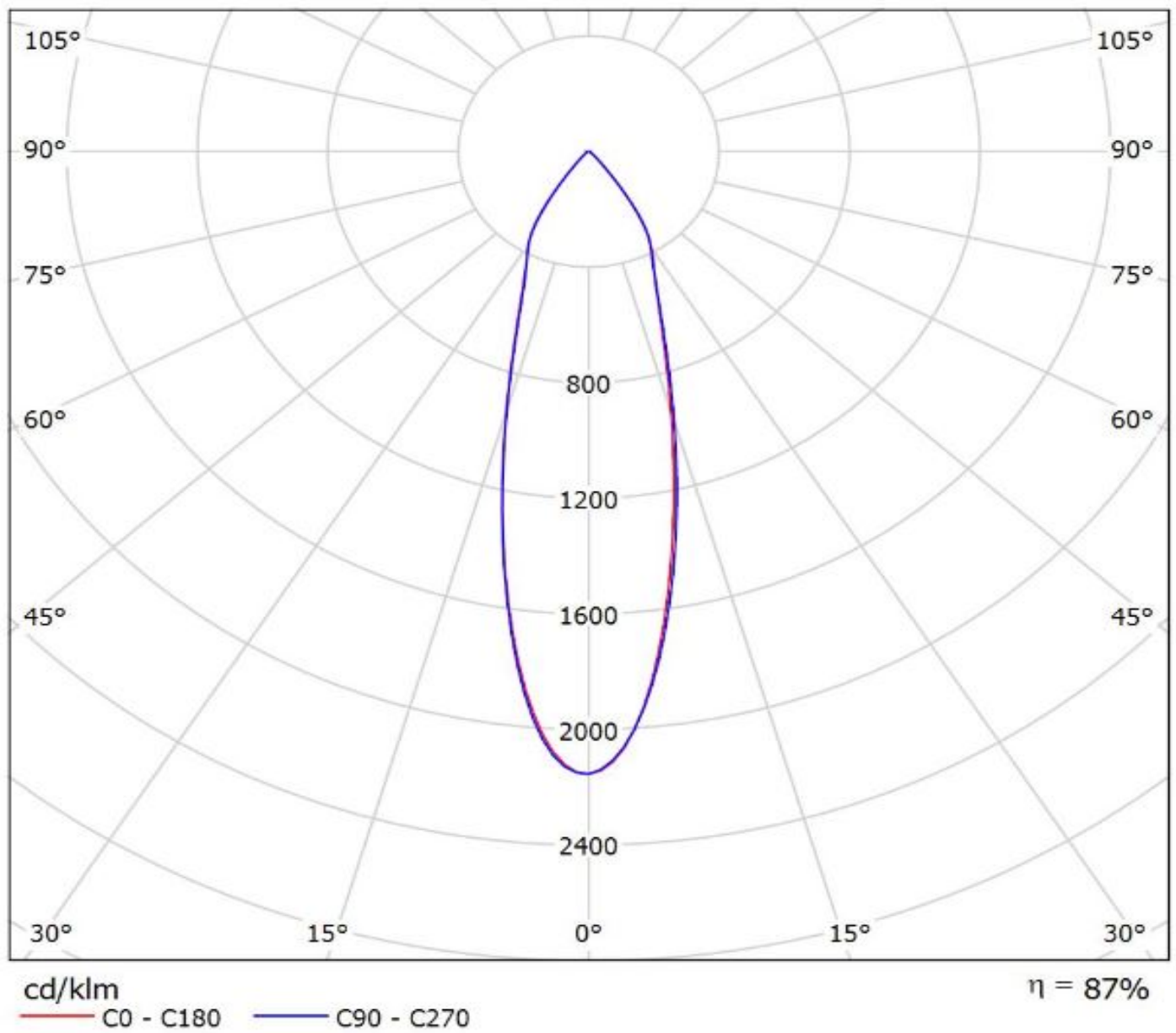
Luminaire: LEDiL Oy CN12919_LENINA-M_(NICHIA_NSBxL121A) Eff.83.9%

Lamps: 1 x NICHIA_NSBxL121A_(NSBLL121AE)_978.131lm@250mA CCT=3000K P=7.57294W
I=249.8mA



Luminaire: Ledil CN14106_LENINA-M-DL_(NFCLL060B)

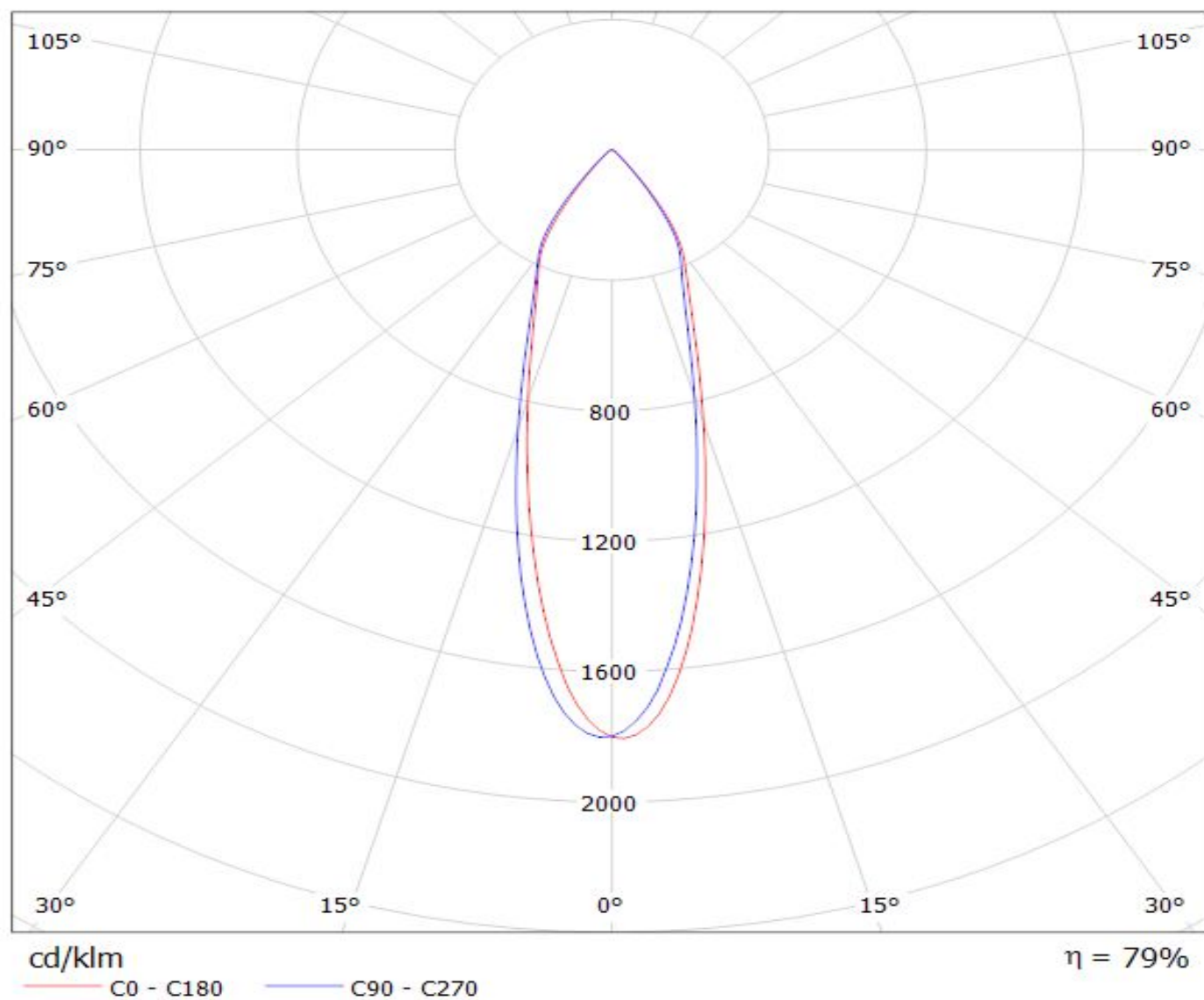
Lamps: 1 x Nichia_NFCLL060B_(438 Typ L1)_C13868_LENA-STD-BASE-VERO13-18_1323.62lm@250mA_P=8.75W_I=0.25A



LEDiL Oy CN12922_LENINA-M-DL_(NICHIA_NSBxL121A) Eff.79.4% / LDC (Polar)

Luminaire: LEDiL Oy CN12922_LENINA-M-DL_(NICHIA_NSBxL121A) Eff.79.4%

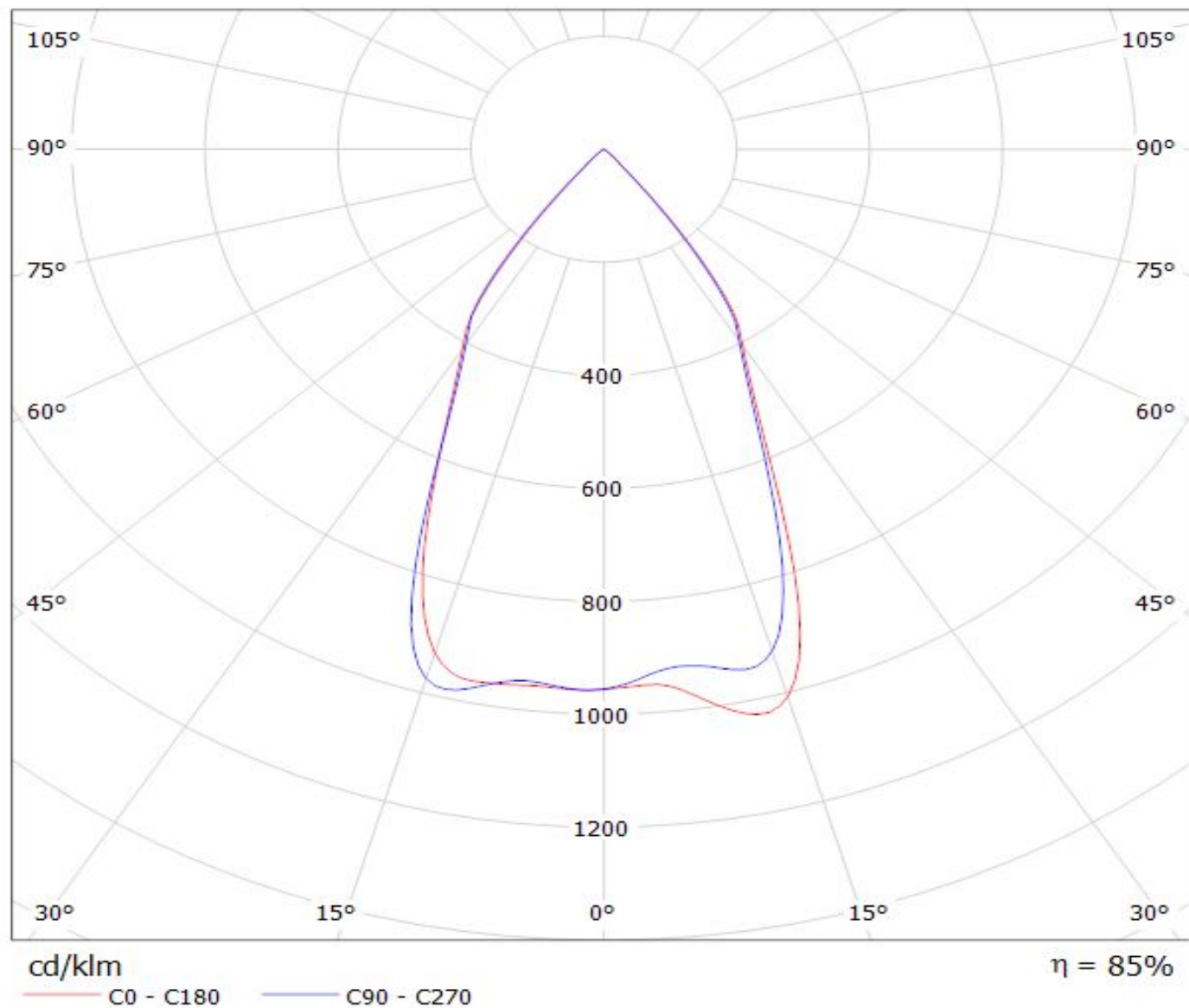
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I=249.8mA



LEDiL Oy CN12920_LENINA-W_(NICHIA_NSBxL121A) Eff.84.7% / LDC (Polar)

Luminaire: LEDiL Oy CN12920_LENINA-W_(NICHIA_NSBxL121A) Eff.84.7%

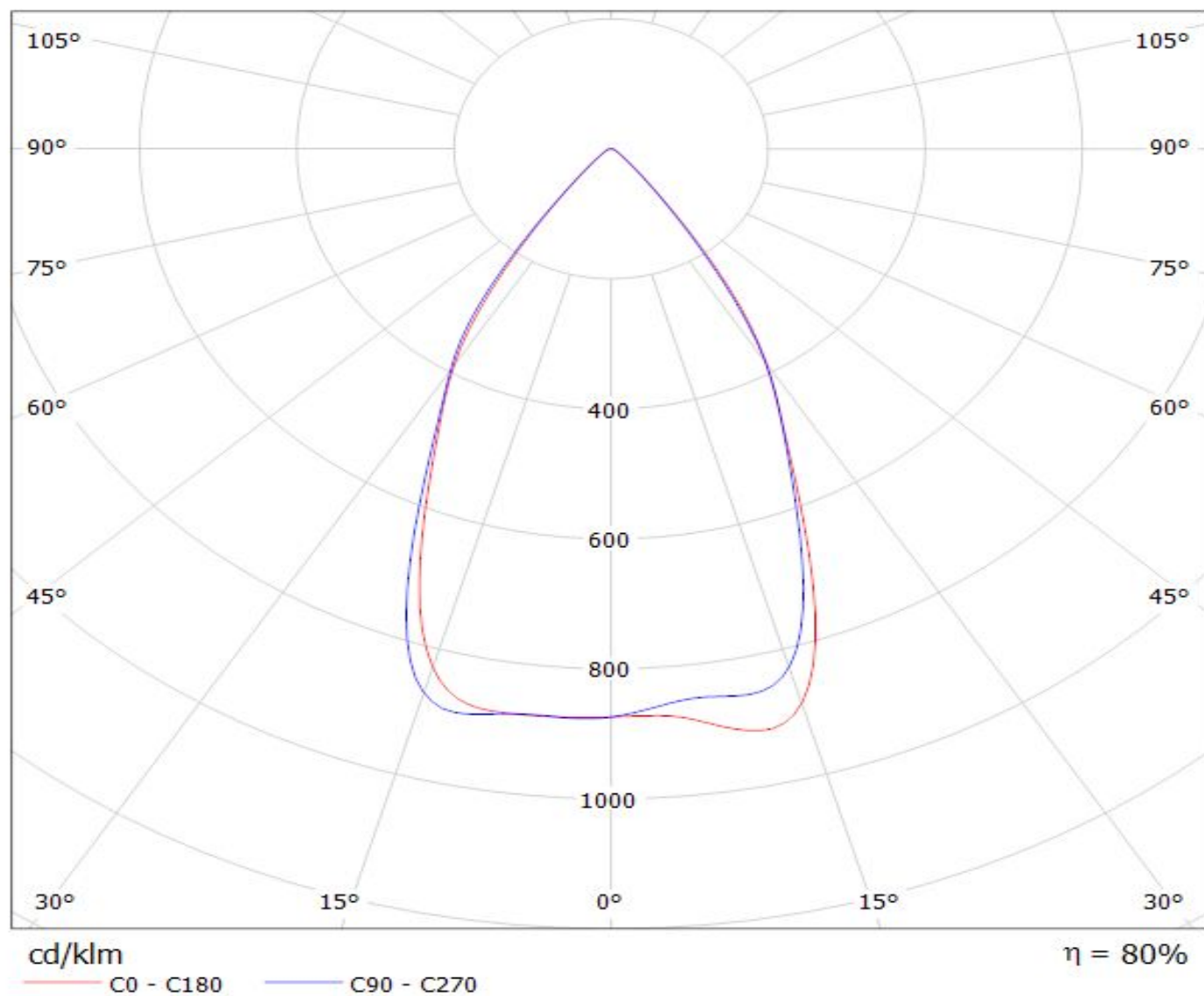
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I=249.8mA



LEDiL Oy CN12923_LENINA-W-DL_(NICHIA_NSBxL121A) Eff.80.2% / LDC (Polar)

Luminaire: LEDiL Oy CN12923_LENINA-W-DL_(NICHIA_NSBxL121A) Eff.80.2%

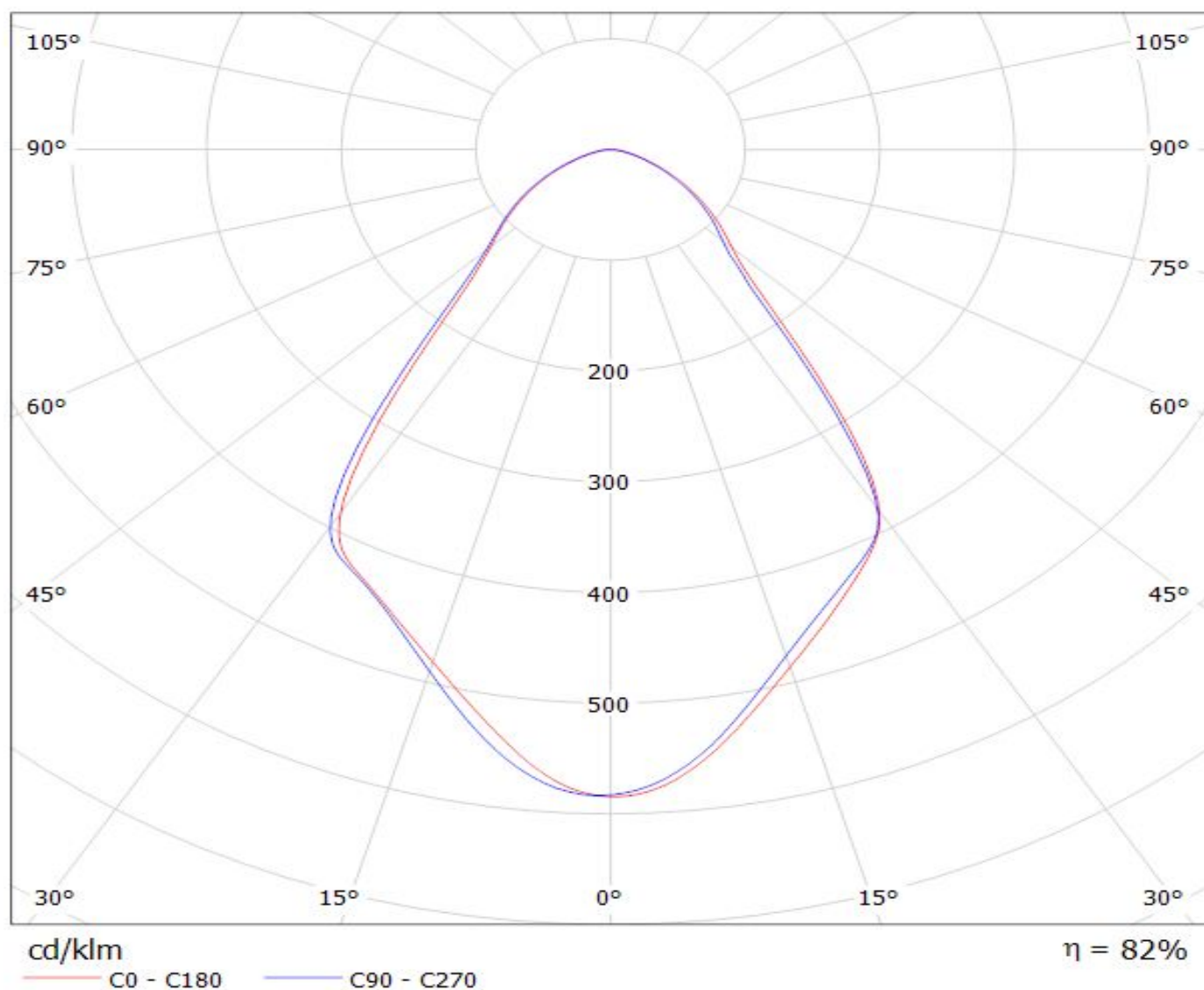
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I=249.8mA



LEDiL Oy C12958_LENINA-XW+DL_(NICHIA_NSBxL121A) Eff.81.8% / LDC (Polar)

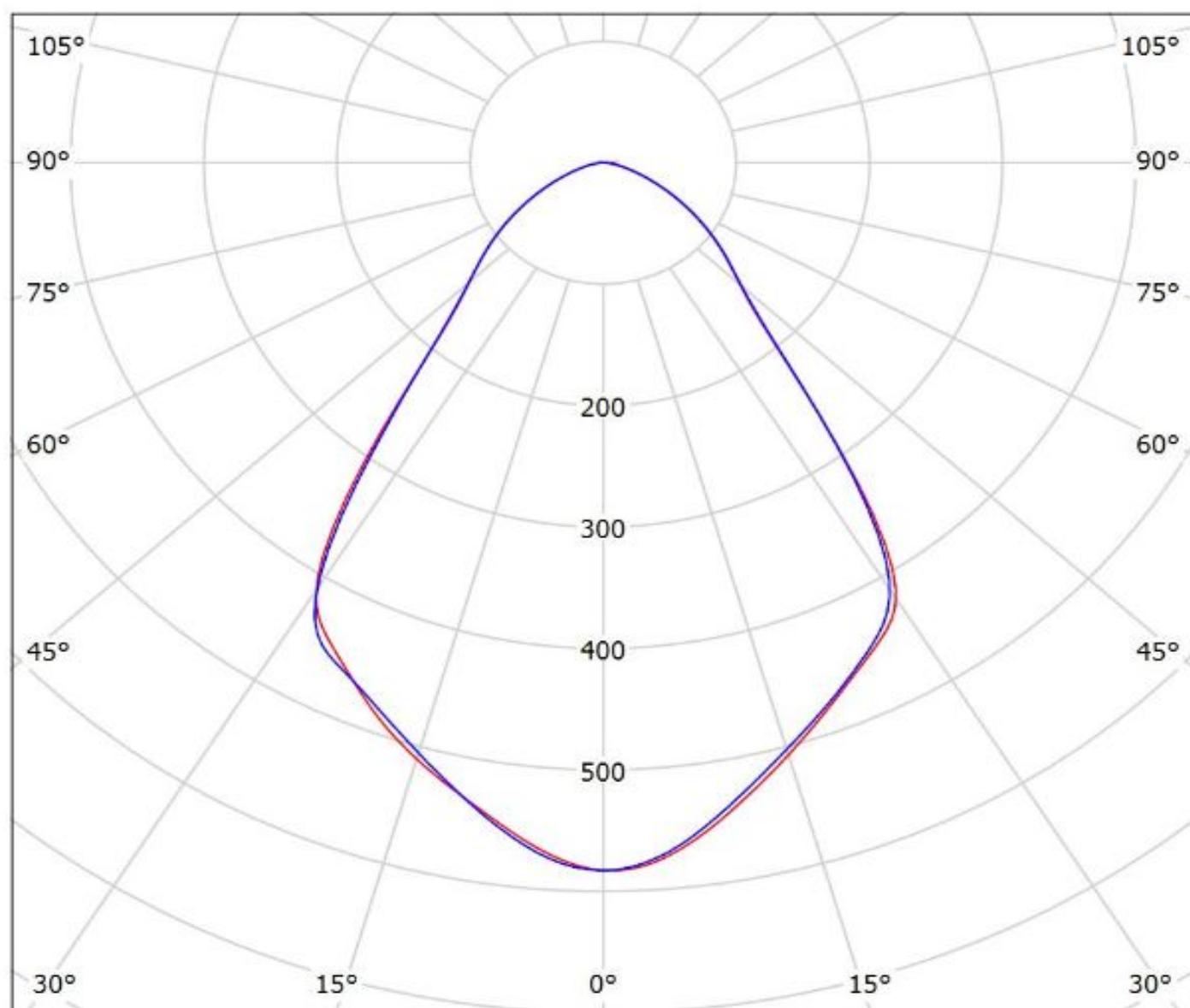
Luminaire: LEDiL Oy C12958_LENINA-XW+DL_(NICHIA_NSBxL121A) Eff.81.8%

Lamps: 1 x NICHIA_NSBxL121A_(NSBLL121AE)_978.131lm@250mA CCT=3000K P=7.57294W
I=249.8mA



Luminaire: Ledil CN14108_LENINA-XW-DL_(NFCLL060B)

Lamps: 1 x Nichia_NFCLL060B_(438 Typ L1)_C13868_LENINA-STD-BASE-VERO13-18_1323.62lm@250mA_P=8.75W_I=0.25A



cd/klm

— C0 - C180 — C90 - C270

$\eta = 89\%$

Luminaire: Ledil CN14104_LENINA-XW_(NFCLL060B)
Lamps: 1 x Nichia_NFCLL060B_(438 Typ L1)_C13868_LENASTD-BASE-VERO13-18_1323.62lm@250mA_P=8.75W_I=0.25A

