

## DETAILS

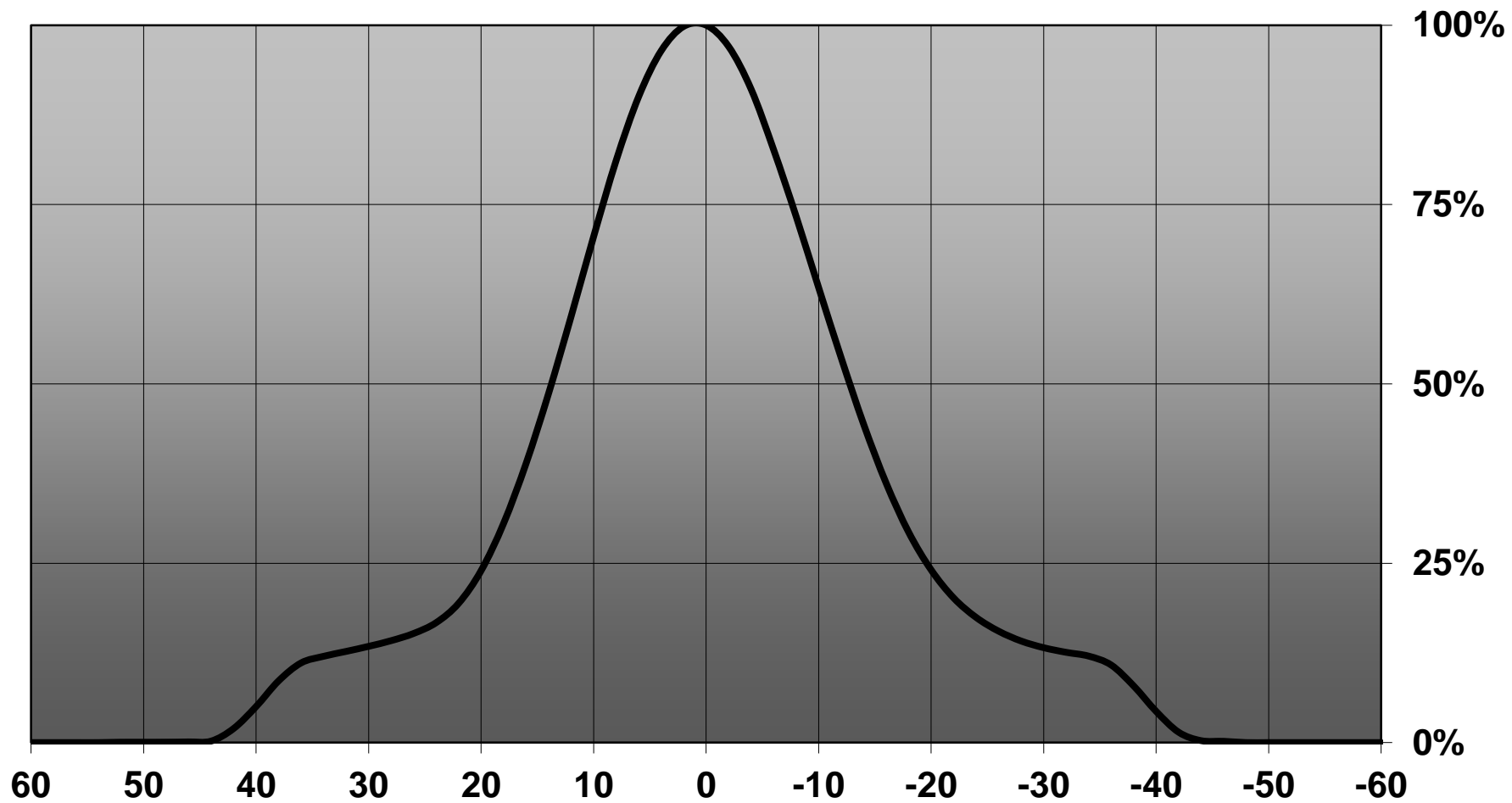
<b>Product Number</b>	CN13923_MIRELLA-50-W-PF-VERO13
<b>Family</b>	Mirella
<b>Type</b>	RefPack
<b>Color</b>	metal
<b>Diameter</b>	49,9 mm
<b>Height</b>	24 mm
<b>Style</b>	round
<b>Optic Material</b>	
<b>Holder Material</b>	
<b>Fastening</b>	
<b>Status</b>	production ready
<b>ROHS Compliant</b>	Yes
<b>Date Updated</b>	6/03/2017



## OPTICAL PROPERTIES

LED	Viewing	Light	Effi-		Connector
	Angle	Beam	ciency	cd/lm	
VERO13	46 deg	Wide	90 %	1.290	-
V6 Gen6	27 deg	Wide	82 %	2.690	Bender Wirth: 460 Typ L1
Xenio Point 13mm	45 deg	Wide	85 %	1.260	-
CLU720/721	40 deg	Wide	81 %	1.400	Bender Wirth: 433 Typ L1
CLU700/701	26 deg	Wide	83 %	2.400	Bender Wirth: 434 Typ L1
CLL02x/CLU02x (LES10)	36 deg	Wide	84 %	1.700	Bender Wirth: 434 Typ L1
CXA/B 15xx	34 deg	Wide	82 %	1.800	Bender Wirth: 441 Typ L1
LUXEON CoB 1202/1203	35 deg	Wide	83 %	1.700	Bender Wirth: 438 Typ L1
LUXEON CoB 1202s	25 deg	Wide	85 %	2.600	Bender Wirth: 452 Typ L1
LUXEON CoB Compact	sim: 25	Wide	sim: 85 %	sim: 2.600	Bender Wirth: 452 Typ L1
CXM-14	sim: 49	Wide	sim: 75 %	sim: 1.000	Bender Wirth: 433 Typ L1
CXM-9	sim: 36	Wide	sim: 84 %	sim: 1.700	Bender Wirth: 434 Typ L1
COB L-Type (LES 9)	34 deg	Wide	84 %	1.800	Bender Wirth: 438 Typ L1
COB S-Type	sim: 25	Wide	sim: 85 %	sim: 2.600	Bender Wirth: 452 Typ L1
COB L-Type (LES 11)	41 deg	Wide	81 %	1.400	Bender Wirth: 438 Typ L1
Solerial P9	34 deg	Wide	85 %	1.800	Bender Wirth: 461 Typ L1
Solerial P6	28 deg	Wide	87 %	2.400	Bender Wirth: 446 Typ L1
Solerial S9	sim: 38	Wide	sim: 88 %	sim: 1.700	-
Solerial S15	sim: 56	Wide	sim: 86 %	sim: 1.081	Bender Wirth: 433 Typ L1
LC010C	sim: 32	Wide	sim: 87 %	sim: 2.200	Bender Wirth: 479 Typ L1
LC020C	sim: 35	Wide	sim: 86 %	sim: 1.900	Bender Wirth: 479 Typ L1
LC040C	sim: 42	Wide	sim: 84 %	sim: 1.400	Bender Wirth: 480 Typ L1
ZC4/6	sim: 36	Wide	sim: 84 %	sim: 1.700	Bender Wirth: 434 Typ L1

Relative intensity of CN13923\_MIRELLA-50-W-PF-VERO13\_(V6)



D

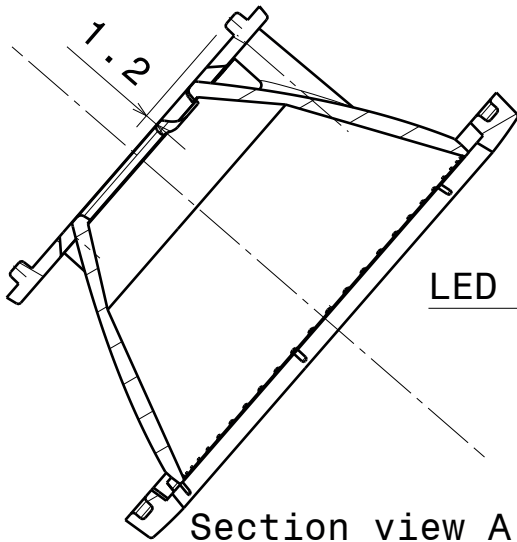
C

B

A

4

4



LED position

Section view A-A  
Scale: 3:2

∅49.9

∅3.4

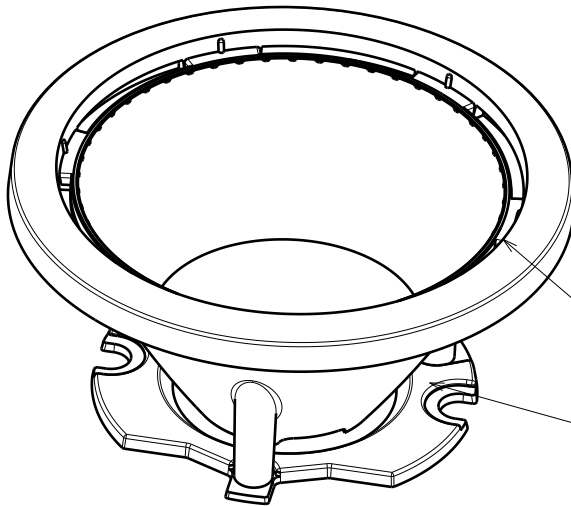
∅1.8

∅31.4

∅29

3

3

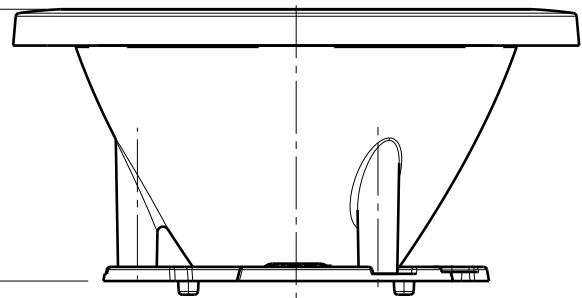


Reflector

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

NOTE: It is recommended to use glue like DELO-PUR 9895 for pin fastening.

[http://www.delo.de/fileadmin/datasheet/DELO-PUR\\_9895\\_\(TIDB-GB\).pdf](http://www.delo.de/fileadmin/datasheet/DELO-PUR_9895_(TIDB-GB).pdf)

2

2

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**

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SIZE	PART NUMBER		
A4	-		
SCALE	3:2	WEIGHT	-
SHEET		1/1	

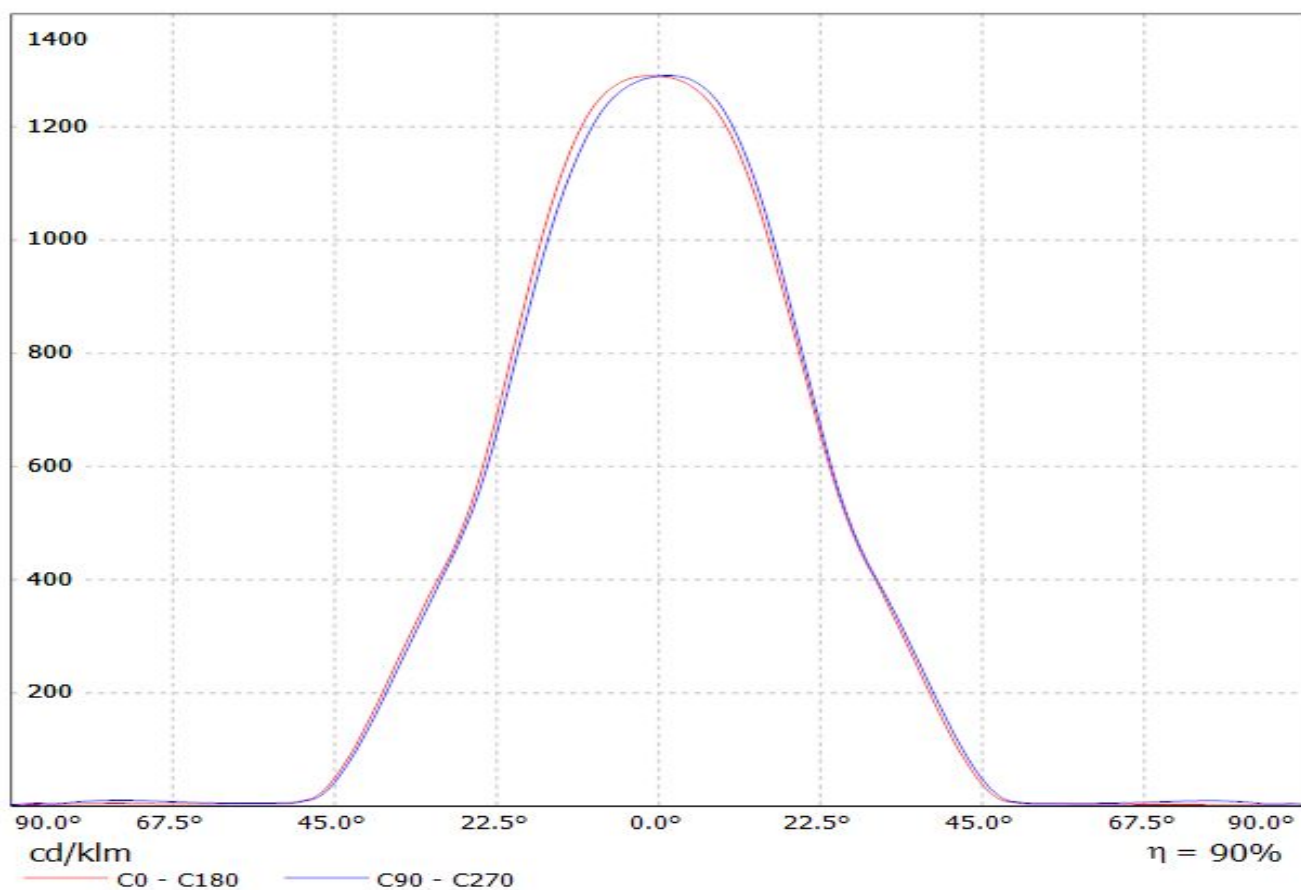
1

1

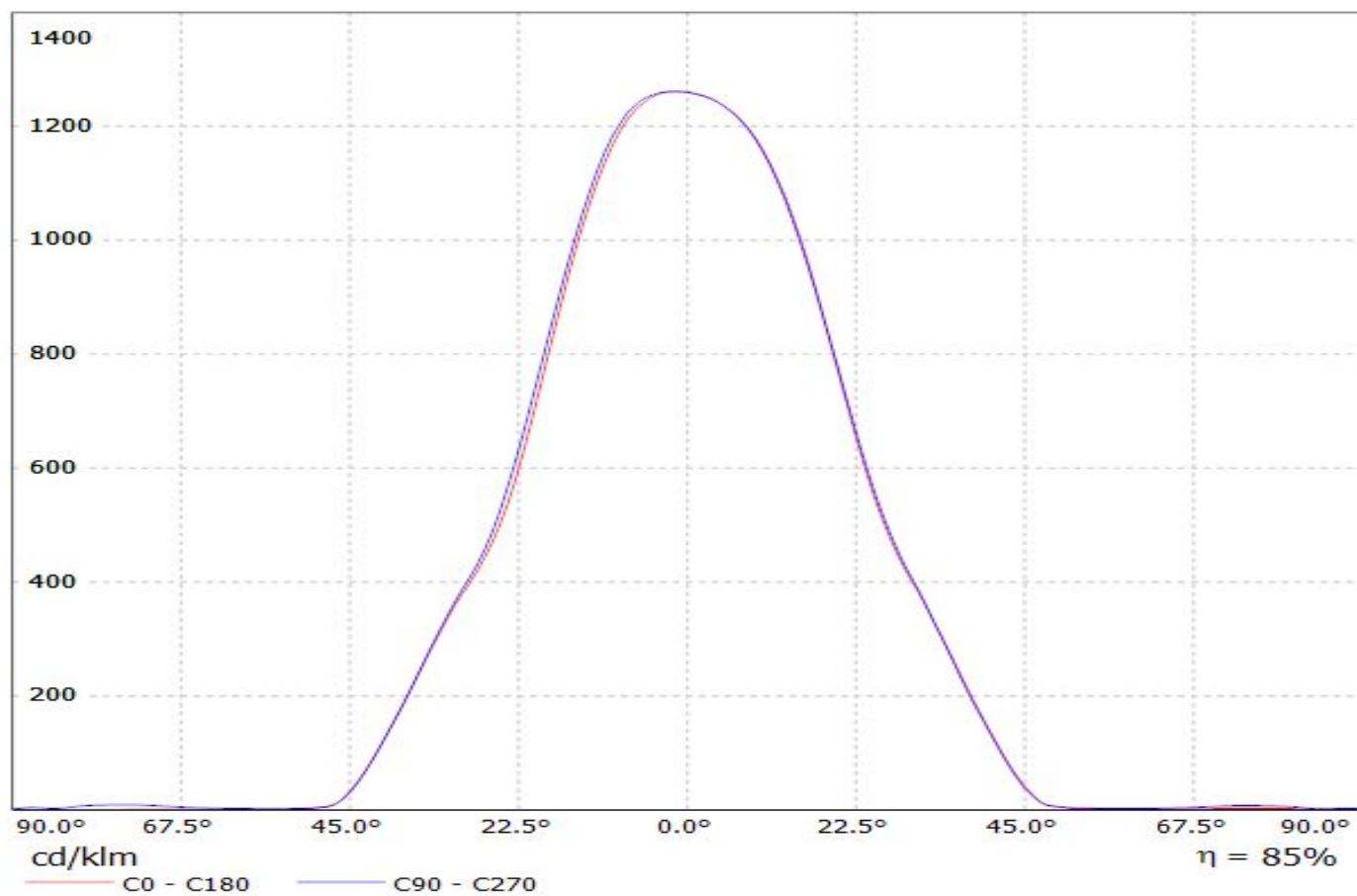
D

A

Luminaire: LEDiL Oy C13087\_MIRELLA-50-W-PF Eff.89.9%  
Lamps: 1 x Bridgelux\_VERO13\_(BXRC-30E2000C)\_989.57lm@250mA\_P=7.48526W\_I=249.8mA



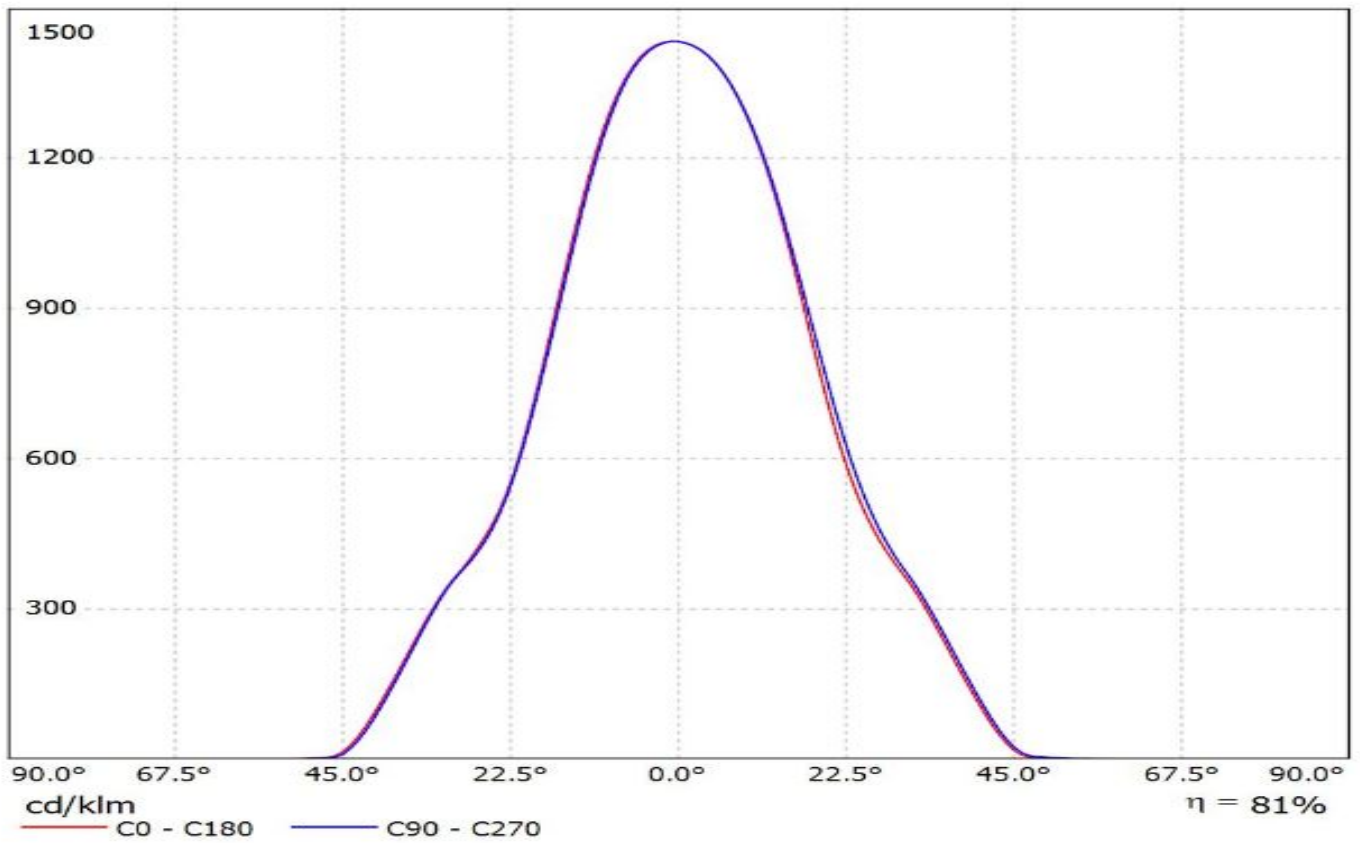
Luminaire: LEDiL Oy CN13923\_MIRELLA-50-W-PF-VERO13\_(XENIO\_13MM)  
Lamps: 1 x XENIO\_13MM\_2066.26lm@?mA\_P=23W\_I=?A



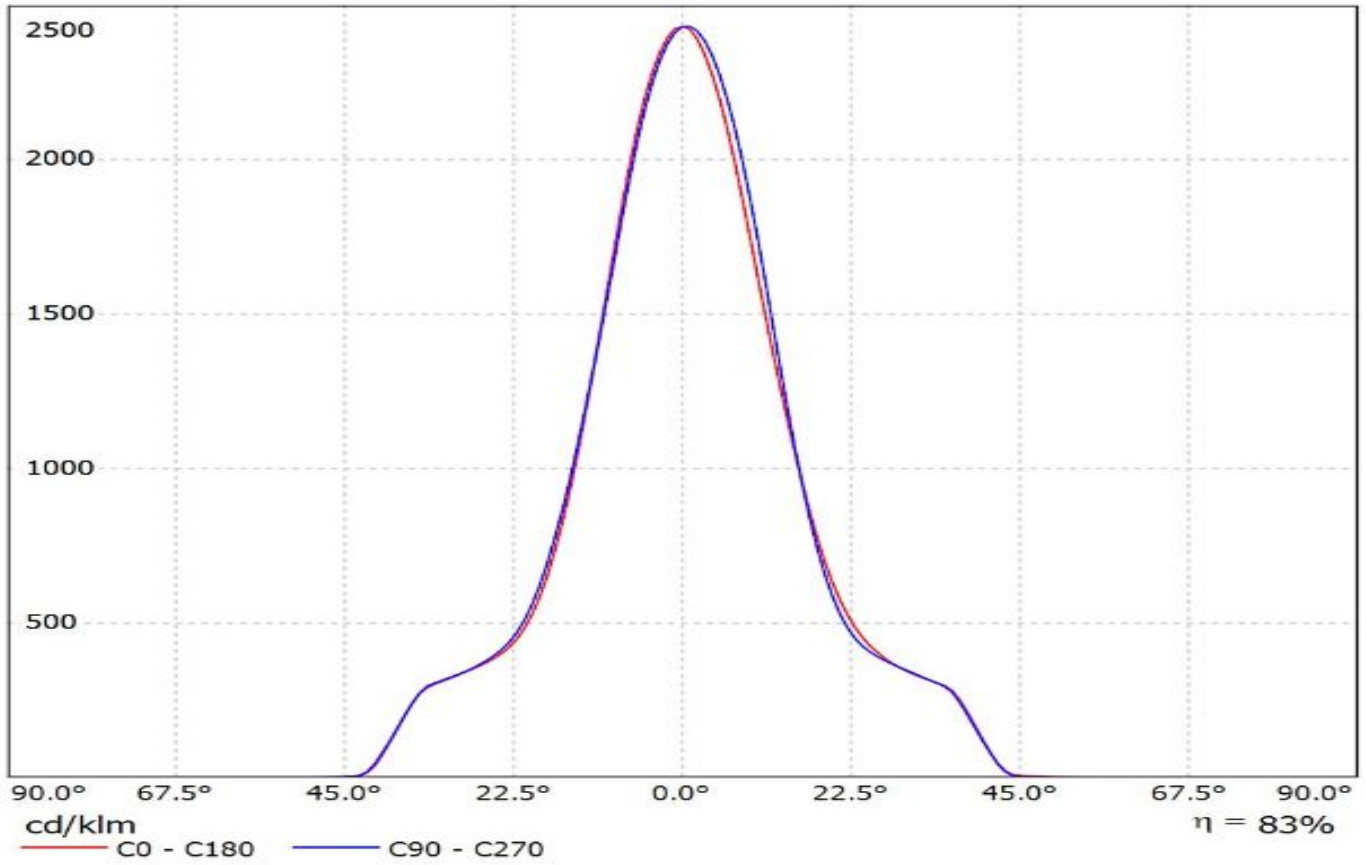
# Ledil CN13923\_MIRELLA-50-W-PF-VERO13\_(CLU720) / LDC (Linear)

Luminaire: Ledil CN13923\_MIRELLA-50-W-PF-VERO13\_(CLU720)

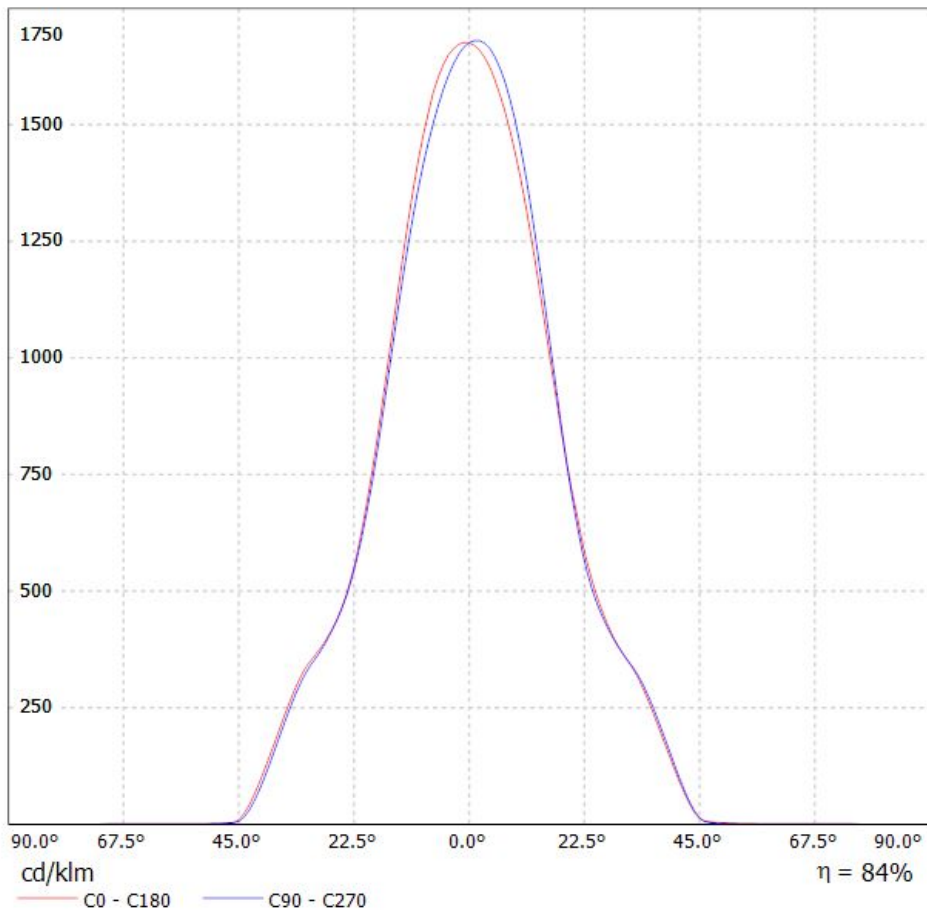
Lamps: 1 x Citizen\_(CLU720)\_ (433\_Typ\_L1)\_ (C13709)\_ 1238.41lm@250mA\_P=8.3W\_I=0.25A



Luminaire: Ledil CN13923\_MIRELLA-50-W-PF-VERO13\_(CLU700) Citizen\_CLU700\_(CLU700-1002B8-273M2G1)\_ (434\_Typ\_L1)\_ (C13709\_PF-SOCKET-VERO13-18)\_ 389.152lm@100mA\_P=2.8W\_I=0.10A  
Lamps: 1 x Citizen\_CLU700\_(CLU700-1002B8-273M2G1)\_ (434\_Typ\_L1)\_ (C13709\_PF-SOCKET-VERO13-18)\_ 389.152lm@100mA\_P=2.8W\_I=0.10A

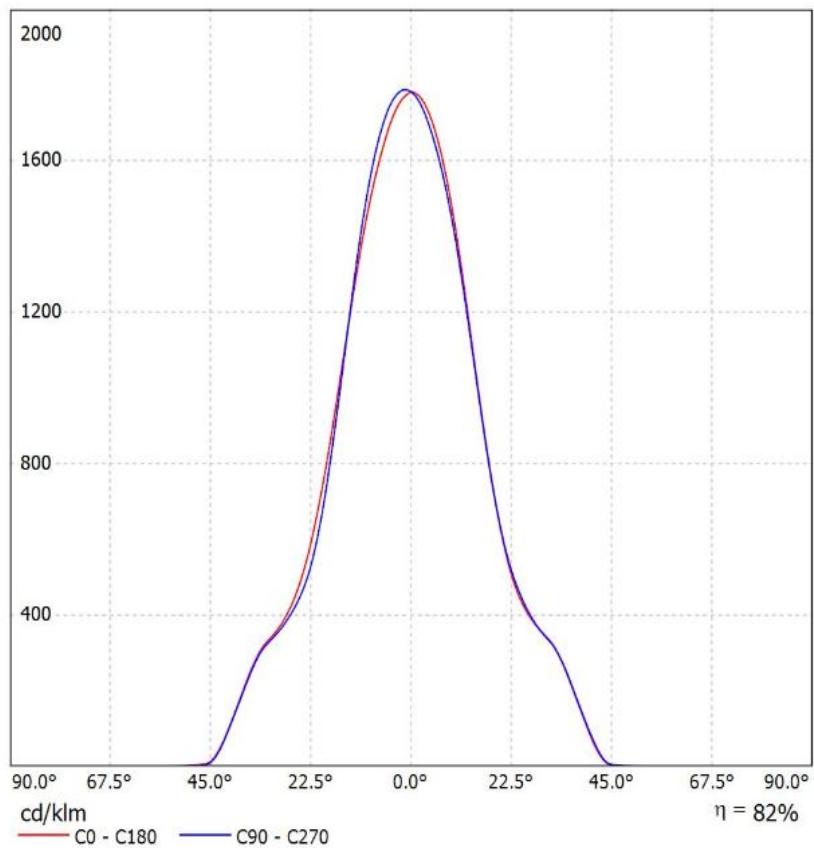


Luminaire: LEDiL Oy CN13923\_MIRELLA-50-W-PF-VERO13\_(CLU024) Citizen\_CLU024\_(434\_Typ\_L1)\_(C13709)\_1022.97lm@250mA\_P=8.5066W\_I=0.2499A  
Lamps: 1 x Citizen\_CLU024\_(434\_Typ\_L1)\_(C13709)\_1022.97lm@250mA\_P=8.5066W\_I=0.2499A

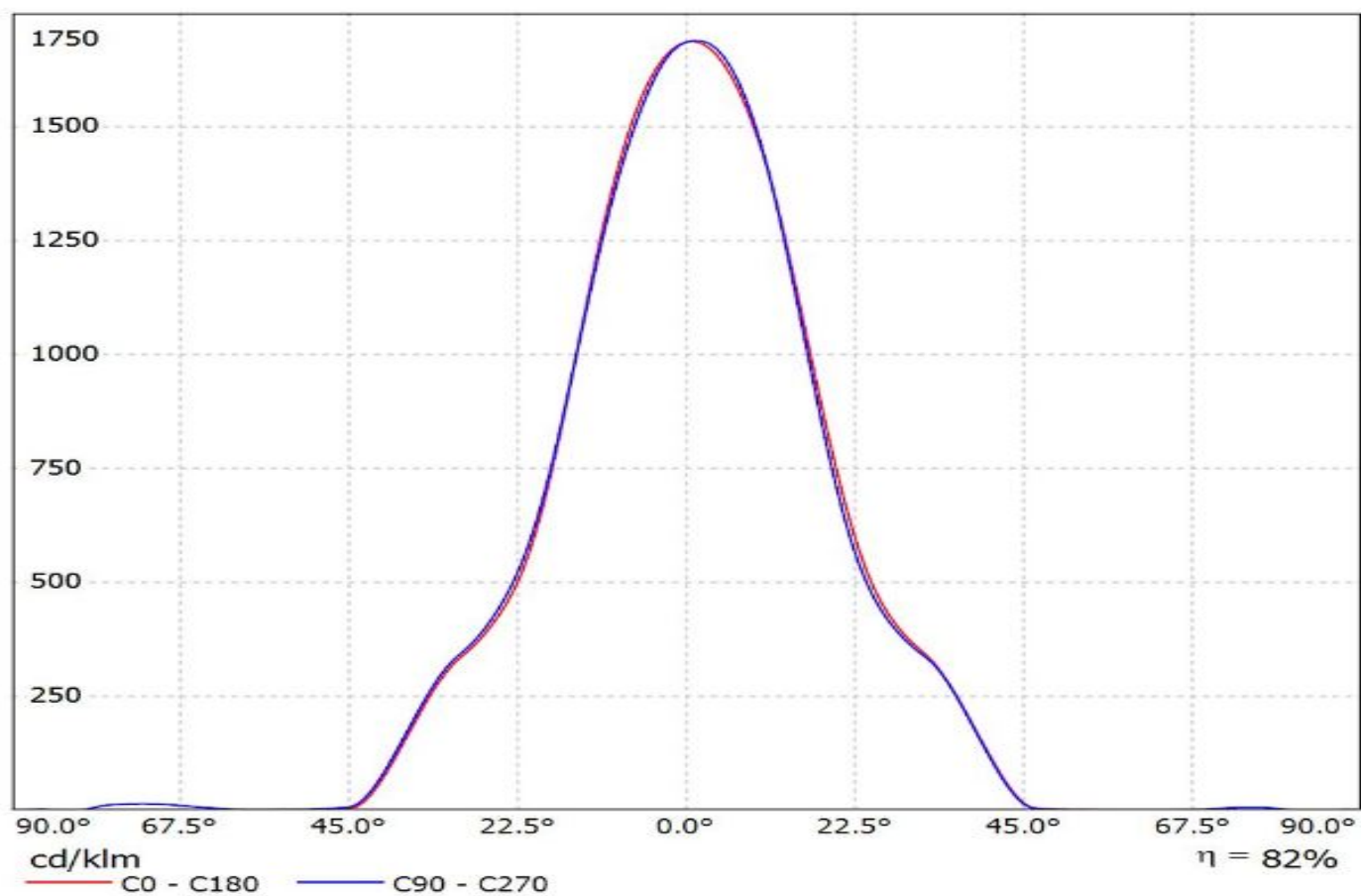




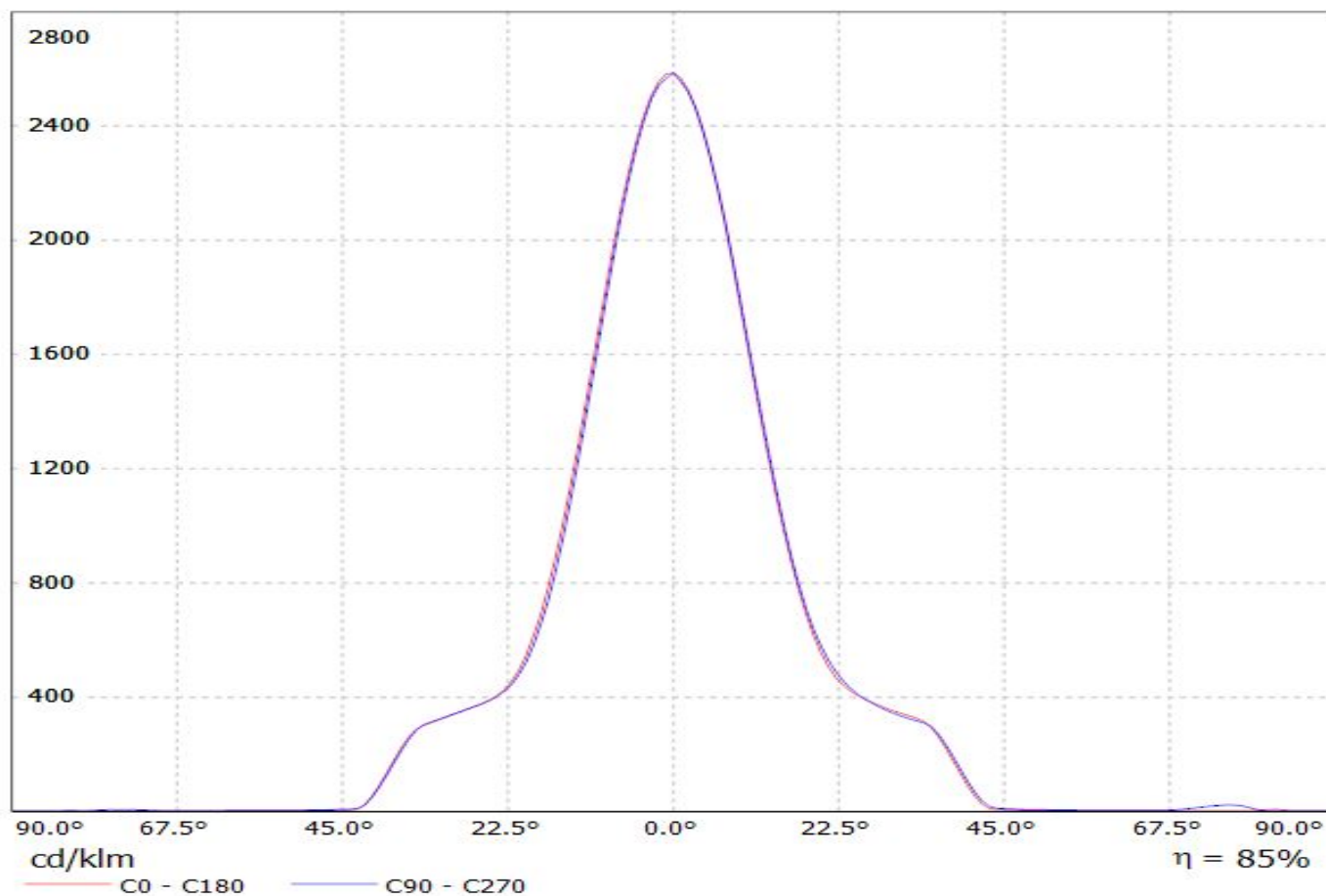
Luminaire: Ledil CN13923\_MIRELLA-50-W-PF-VERO13\_(CXA1520\_(441\_Typ\_L1) CREE\_CXA1520\_(CXA1520-30F-N4-N0H-00001)\_(441\_Typ\_L1)\_(C13709\_PF-SOCKET-VERO13-18)\_1033.5lm@250mA\_P=8.8W\_I=0.25A  
Lamps: 1 x CREE\_CXA1520\_(CXA1520-30F-N4-N0H-00001)\_(441\_Typ\_L1)\_(C13709\_PF-SOCKET-VERO13-18)\_1033.5lm@250mA\_P=8.8W\_I=0.25A



Luminaire: Ledil CN13923\_MIRELLA-50-W-PF-VERO13\_(CoB\_1203)  
Lamps: 1 x Luxeon\_CoB\_1203\_(438 Typ L1)\_1054.48lm@250mA\_P=0.7\_I=0.25A

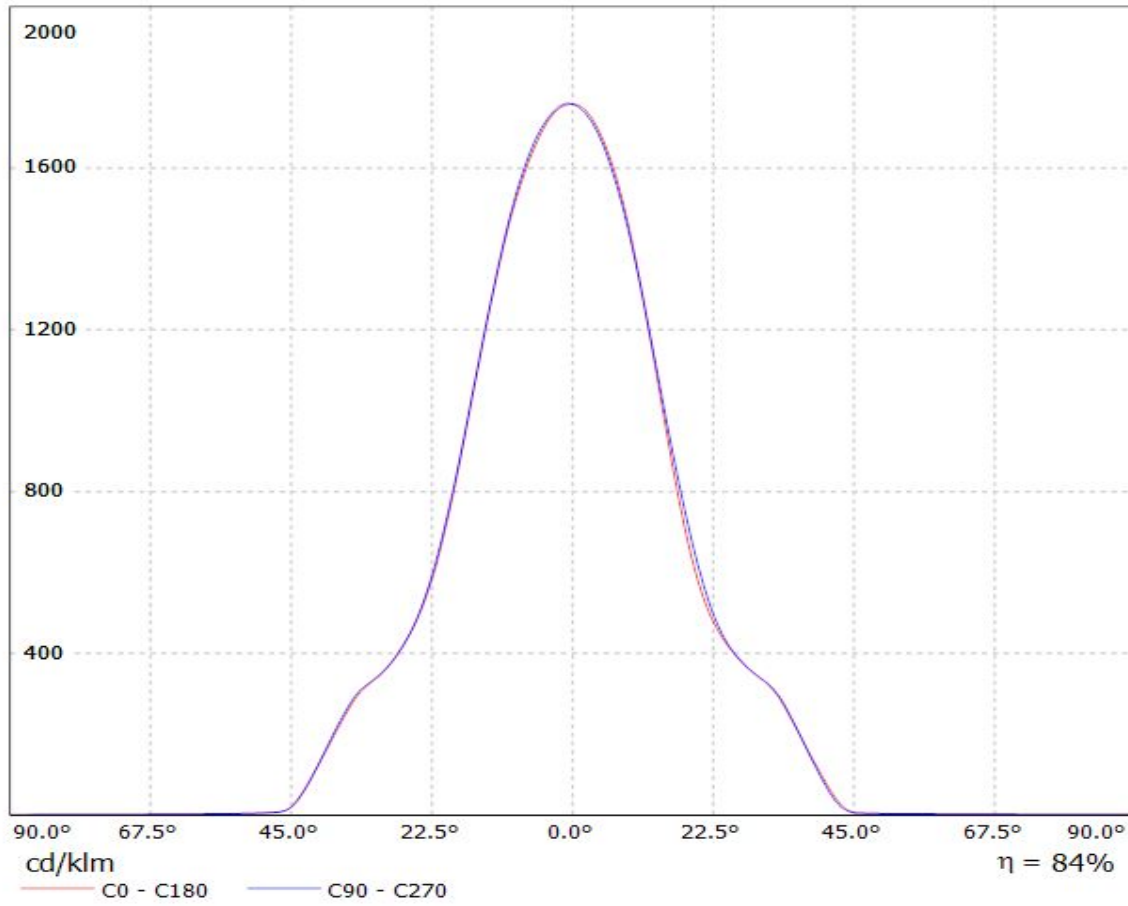


Luminaire: LEDiL Oy CN13923\_MIRELLA-50-W-PF-VERO13\_(Luxeon\_CoB\_1202s)  
Lamps: 1 x Luxeon\_CoB\_1202s\_(452 Typ L1)\_231.765lm@100mA\_P=1.62683W\_I=0.10A



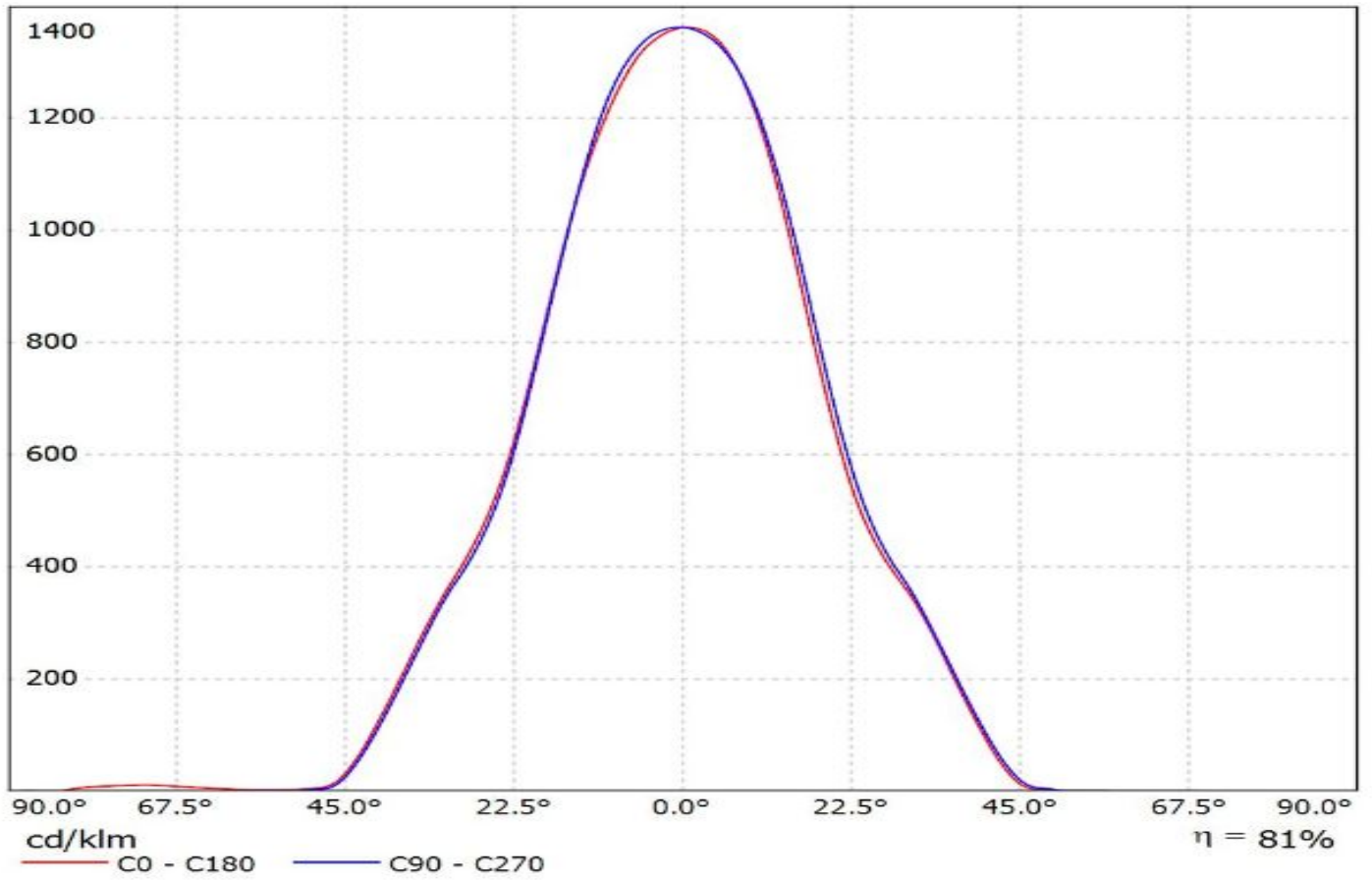
Luminaire: LEDiL Oy CN13923\_MIRELLA-50-W-PF-VERO13\_(NFCLL036B)

Lamps: 1 x Nichia NFCLL036B (sm403J1300R8000)\_542.652lm@100mA\_CCT=4000K\_P=3.34084W\_I=0.100A

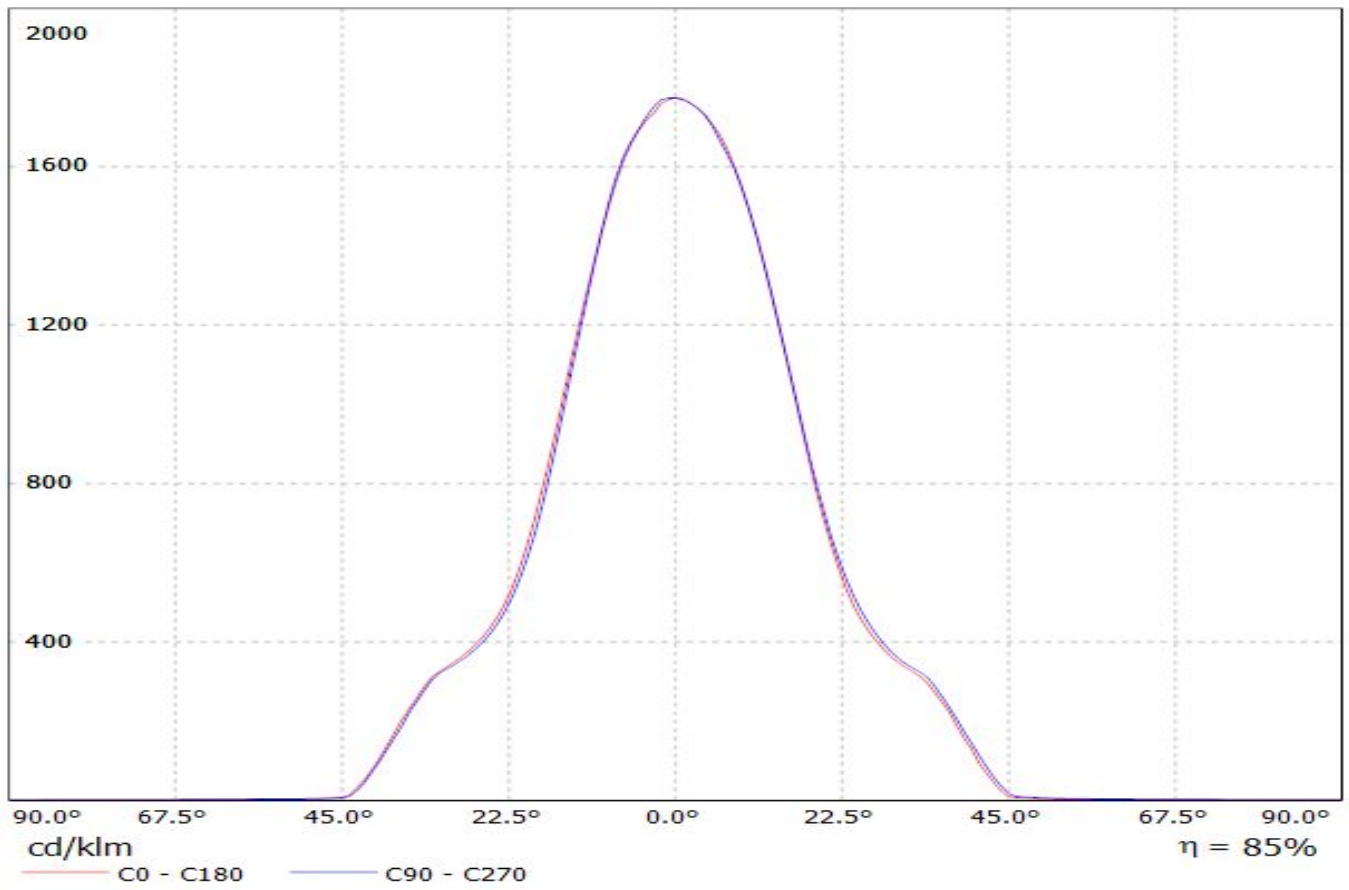


Luminaire: Ledil CN13923\_MIRELLA-50-W-PF-VERO13\_(NFCLL060B)

Lamps: 1 x Nichia\_NFCLL060B\_(438 Typ L1)\_1355.59lm@250mA\_P=8.5W\_I=0.25A



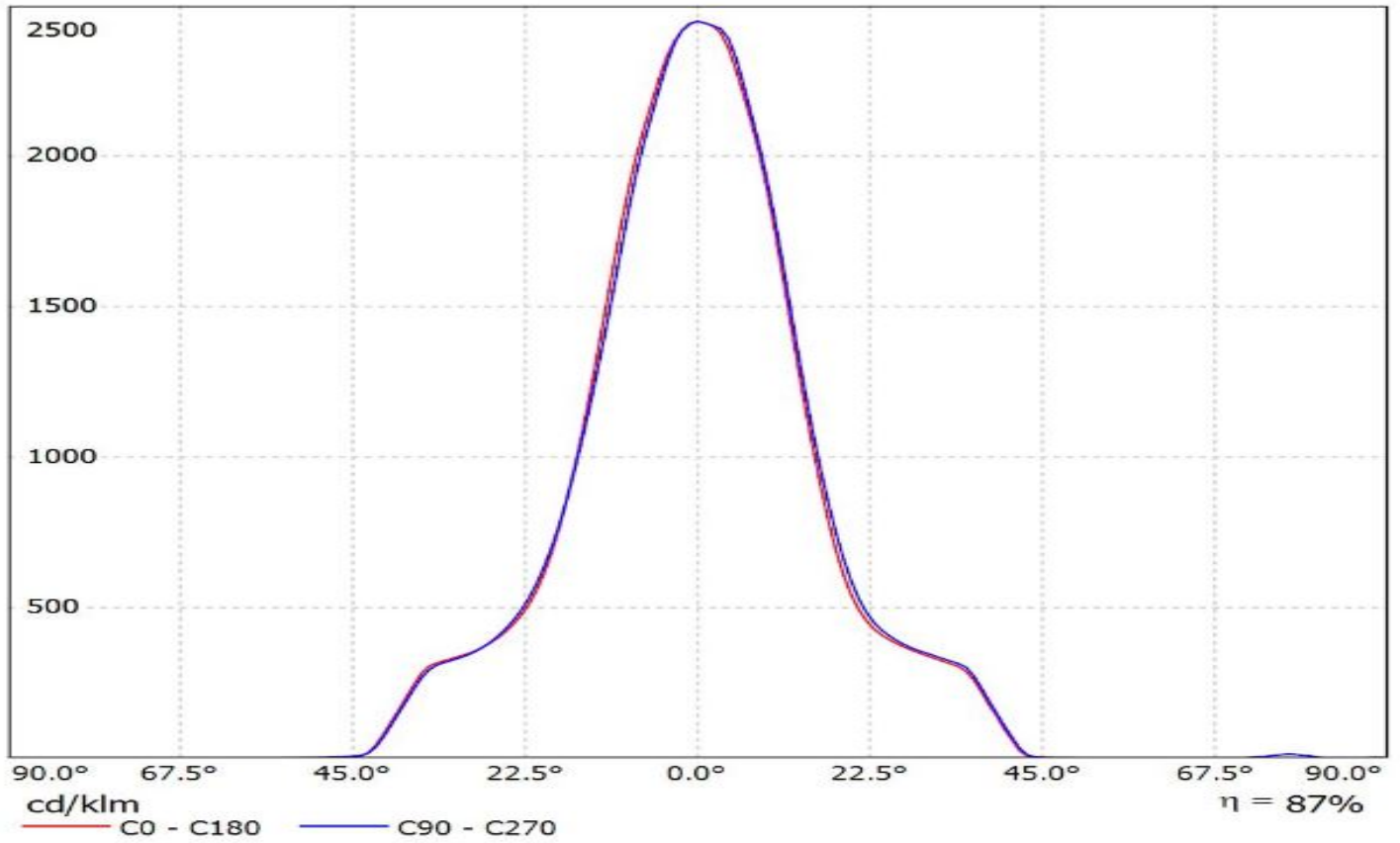
Luminaire: LEDiL Oy CN13923\_MIRELLA-50-W-PF-VERO13\_(Soleriq P9+461 Typ L1)  
Lamps: 1 x Soleriq P9+461 Typ L1\_881.86lm@250mA\_P=6.96846W\_I=250mA



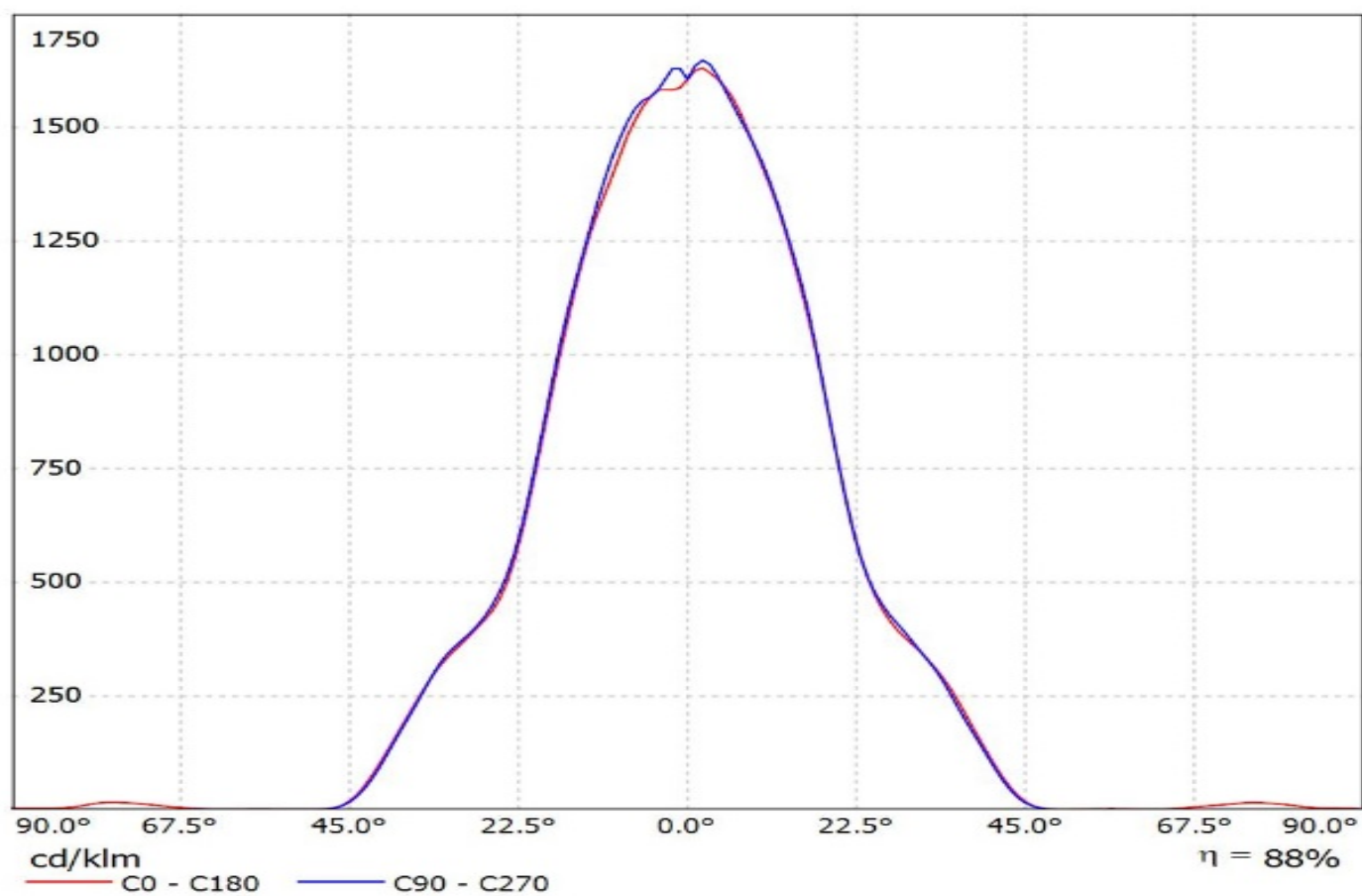
# LEDiL Oy CN13923\_MIRELLA-50-W-PF-VERO13\_(Soleriq\_P6) / LDC (Linear)

Luminaire: LEDiL Oy CN13923\_MIRELLA-50-W-PF-VERO13\_(Soleriq\_P6)

Lamps: 1 x Osram\_Soleriq\_P6\_(446 Typ L1)\_464.246lm@250mA\_P=6.28598W\_I=0.25A

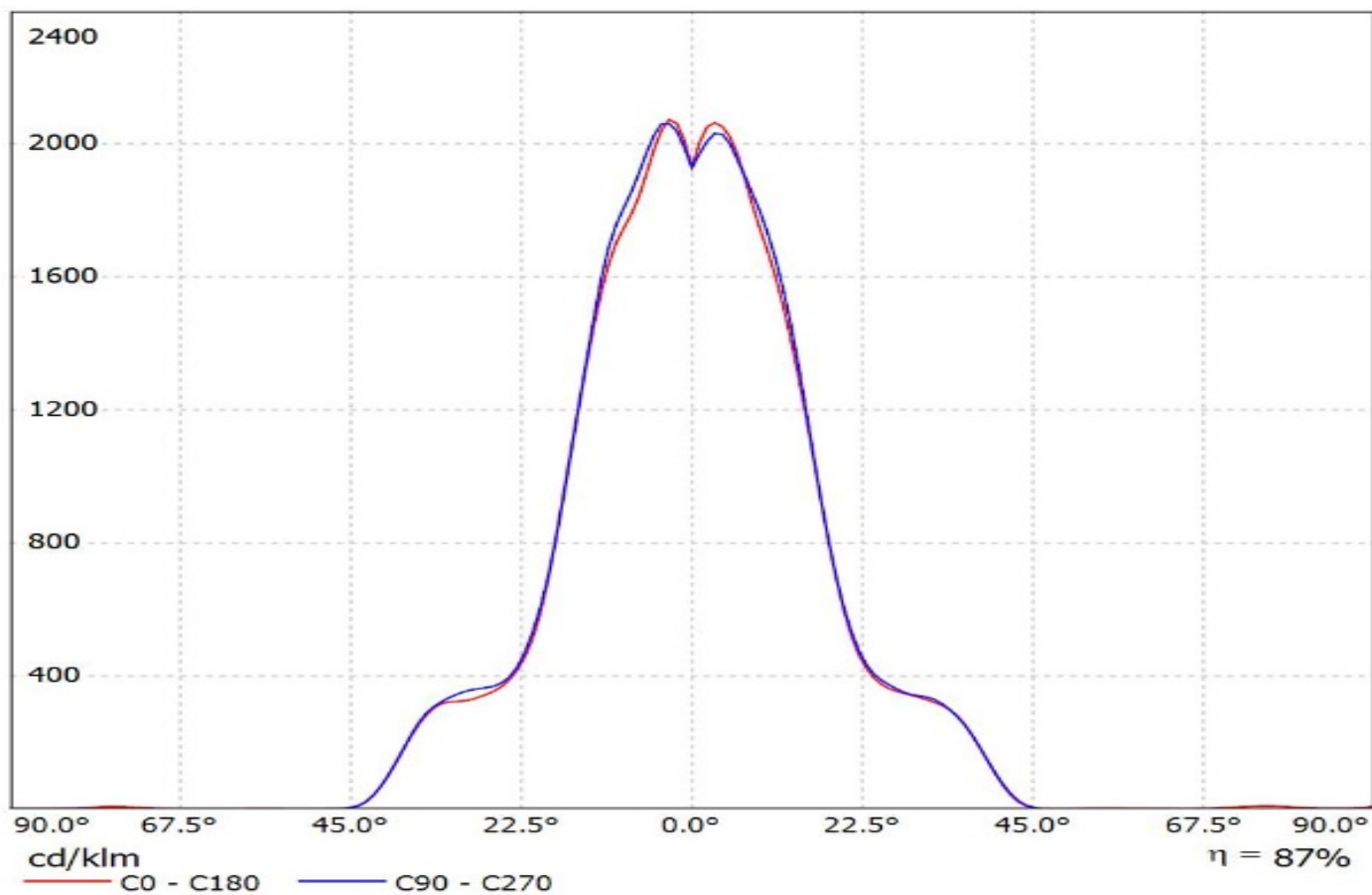


Luminaire: Ledil Oy CN13923\_MIRELLA-50-W-PF-VERO13\_(Soleriq\_S9)\_SIMULATED  
Lamps: 1 x Osram Soleriq S9 (GW KAFJB3.EM)

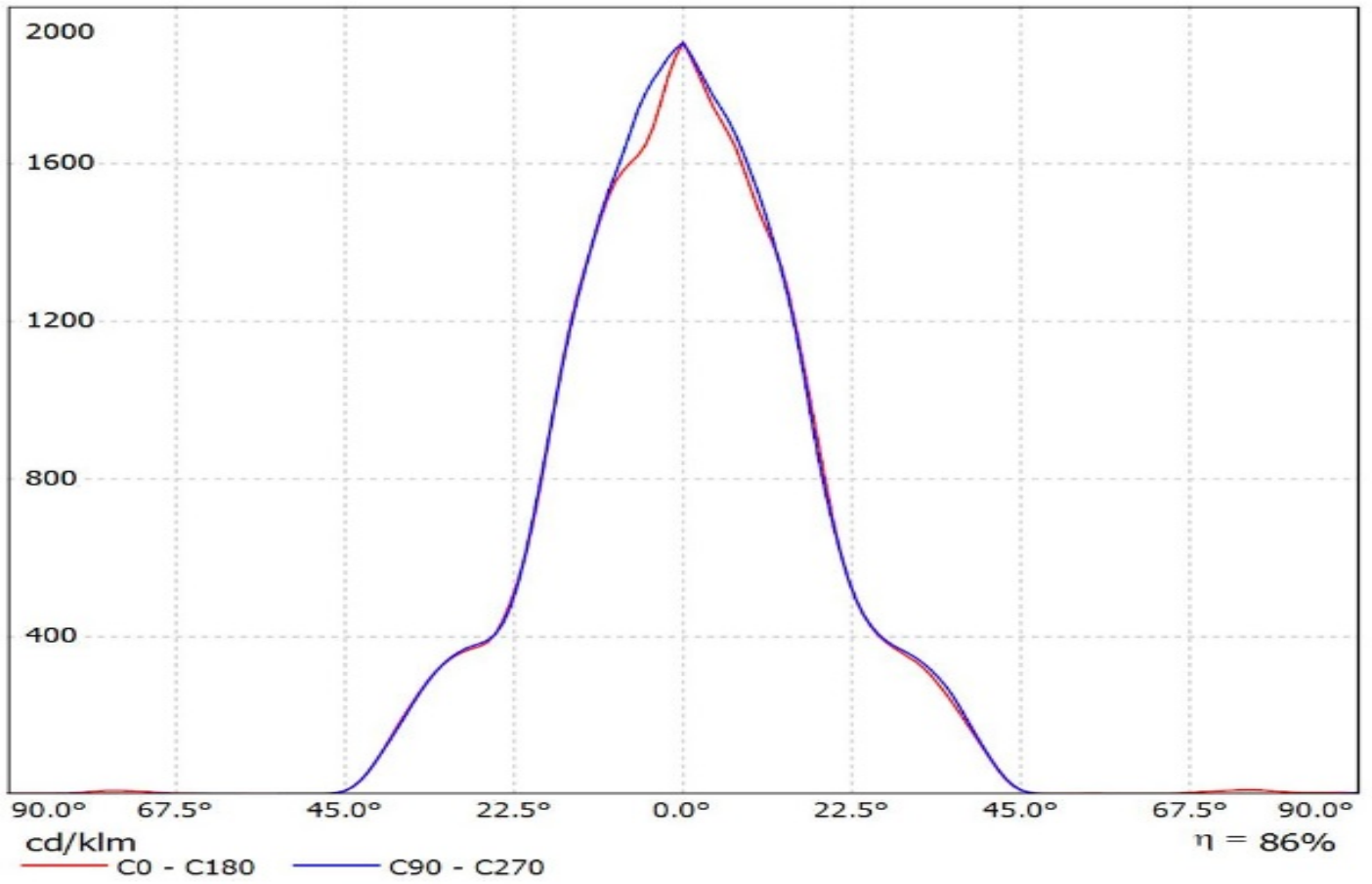




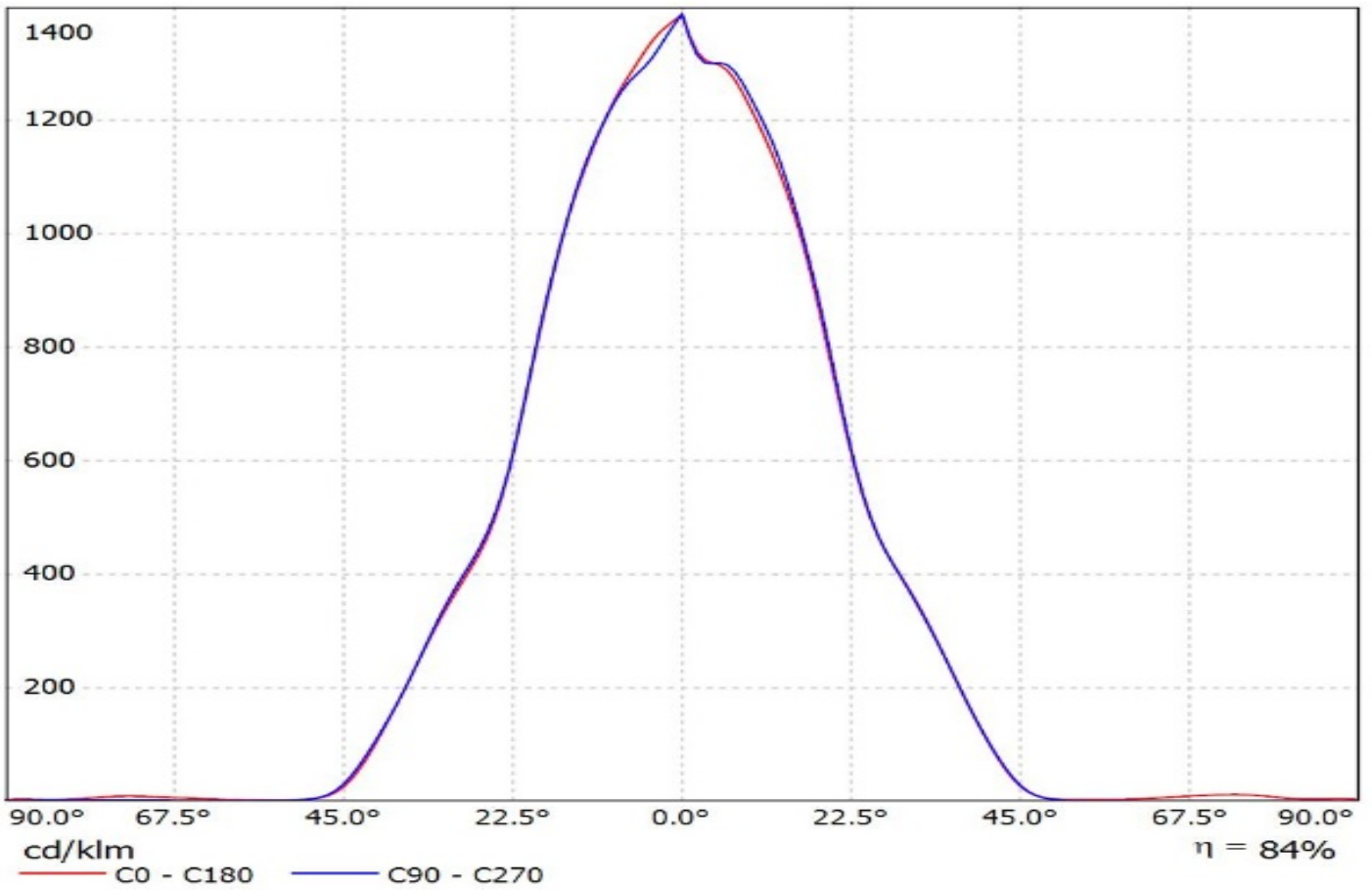
Luminaire: Ledil Oy CN13923\_MIRELLA-50-W-PF-VERO13\_(LC010C)\_(479\_type\_L1)\_SIMULATED  
Lamps: 1 x Samsung LC010C + Bender & Wirth 479 Type L1



Luminaire: Ledil Oy CN13923\_MIRELLA-50-W-PF-VERO13\_(LC020C)\_ (479\_type\_L1)\_SIMULATED  
Lamps: 1 x Samsung LC020C + Bender & Wirth 479 Type L1

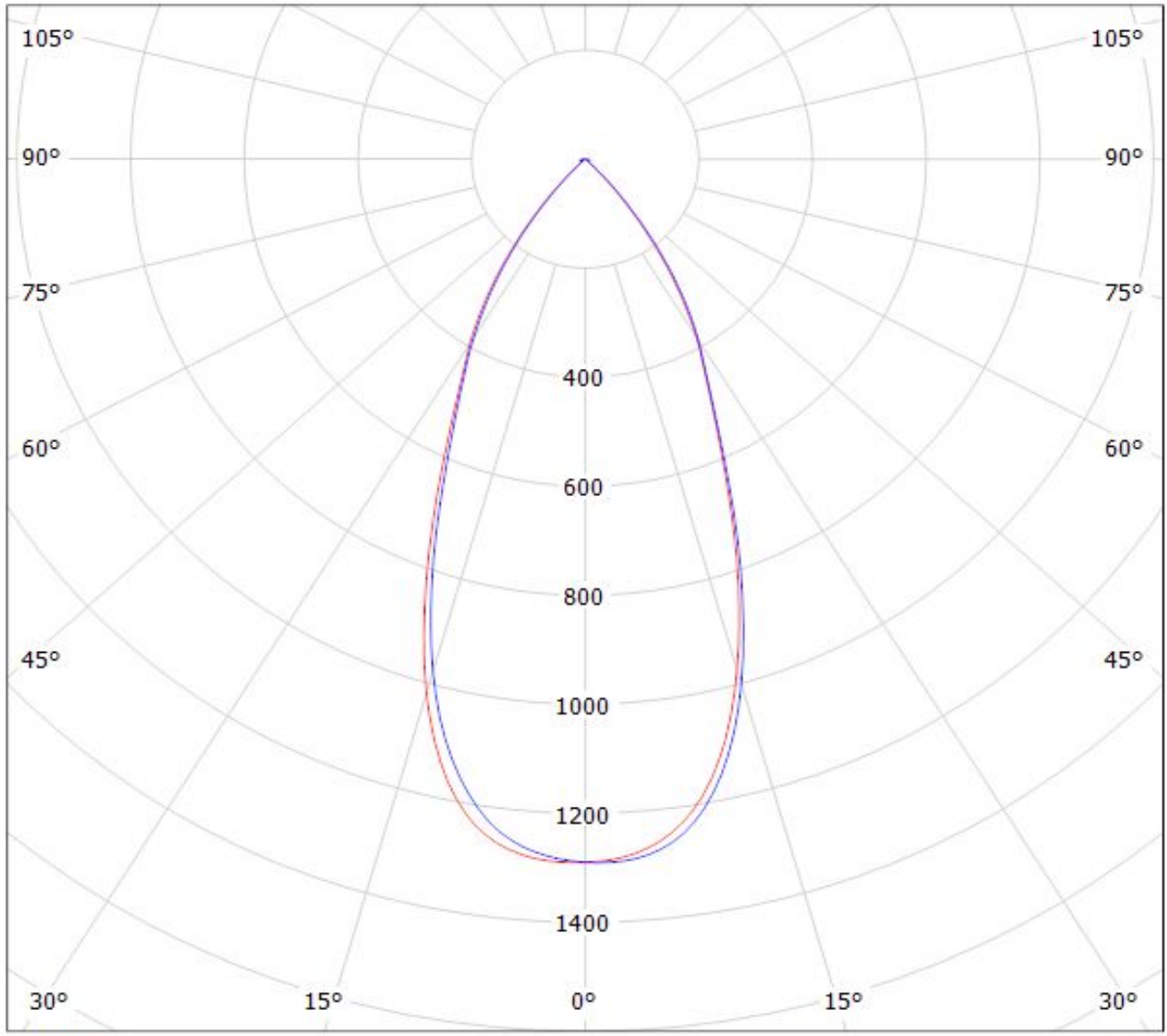


Luminaire: Ledil Oy CN13923\_MIRELLA-50-W-PF-VERO13\_(LC040C)\_(480\_type\_L1)\_SIMULATED  
Lamps: 1 x Samsung LC040C + Bender & Wirth 480 Type L1



Luminaire: LEDiL Oy C13087\_MIRELLA-50-W-PF Eff.89.9%

Lamps: 1 x Bridgelux\_VERO13\_(BXRC-30E2000C)\_989.57lm@250mA\_P=7.48526W\_I=249.8mA



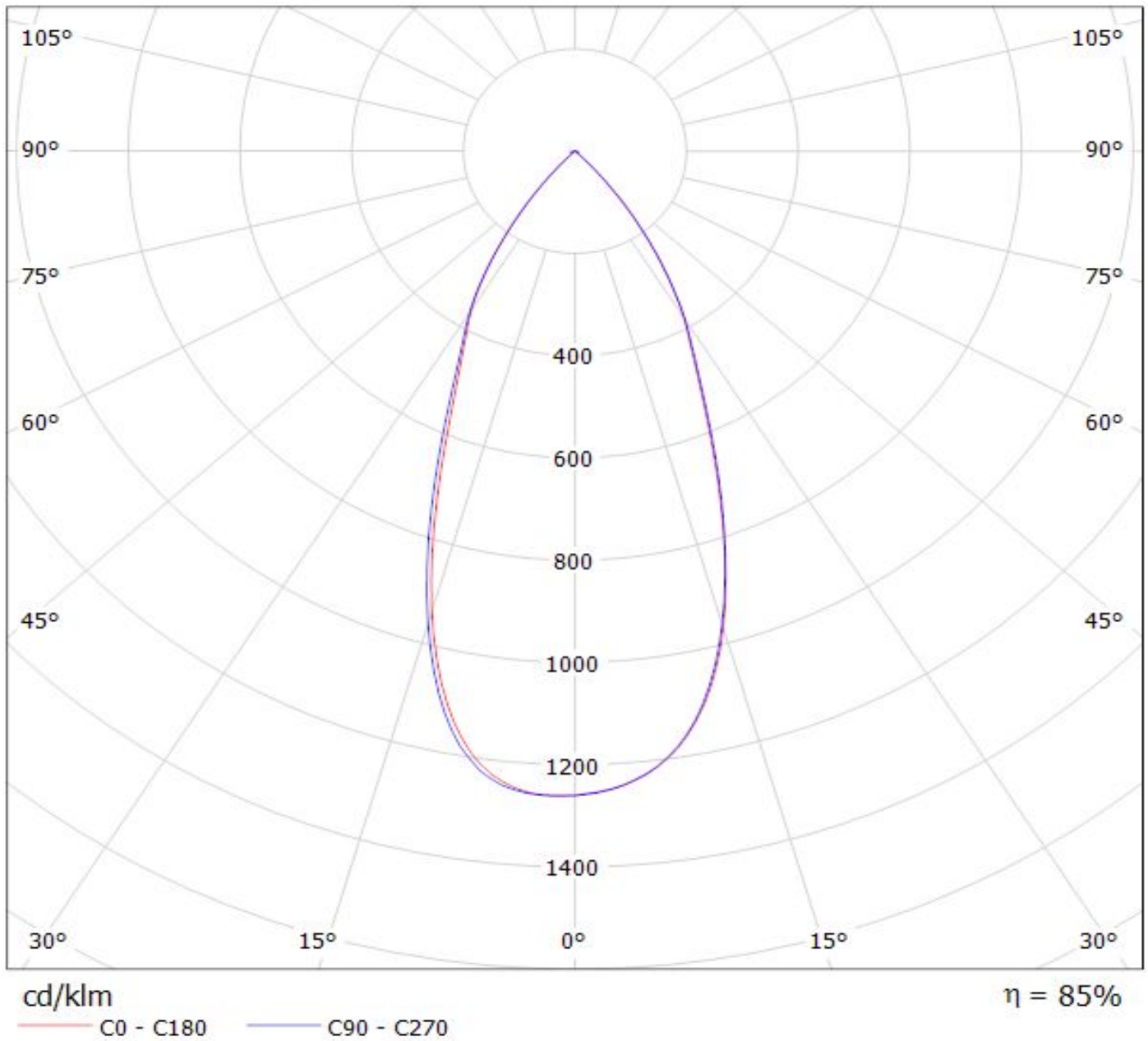
cd/klm

— C0 - C180

— C90 - C270

$\eta = 90\%$

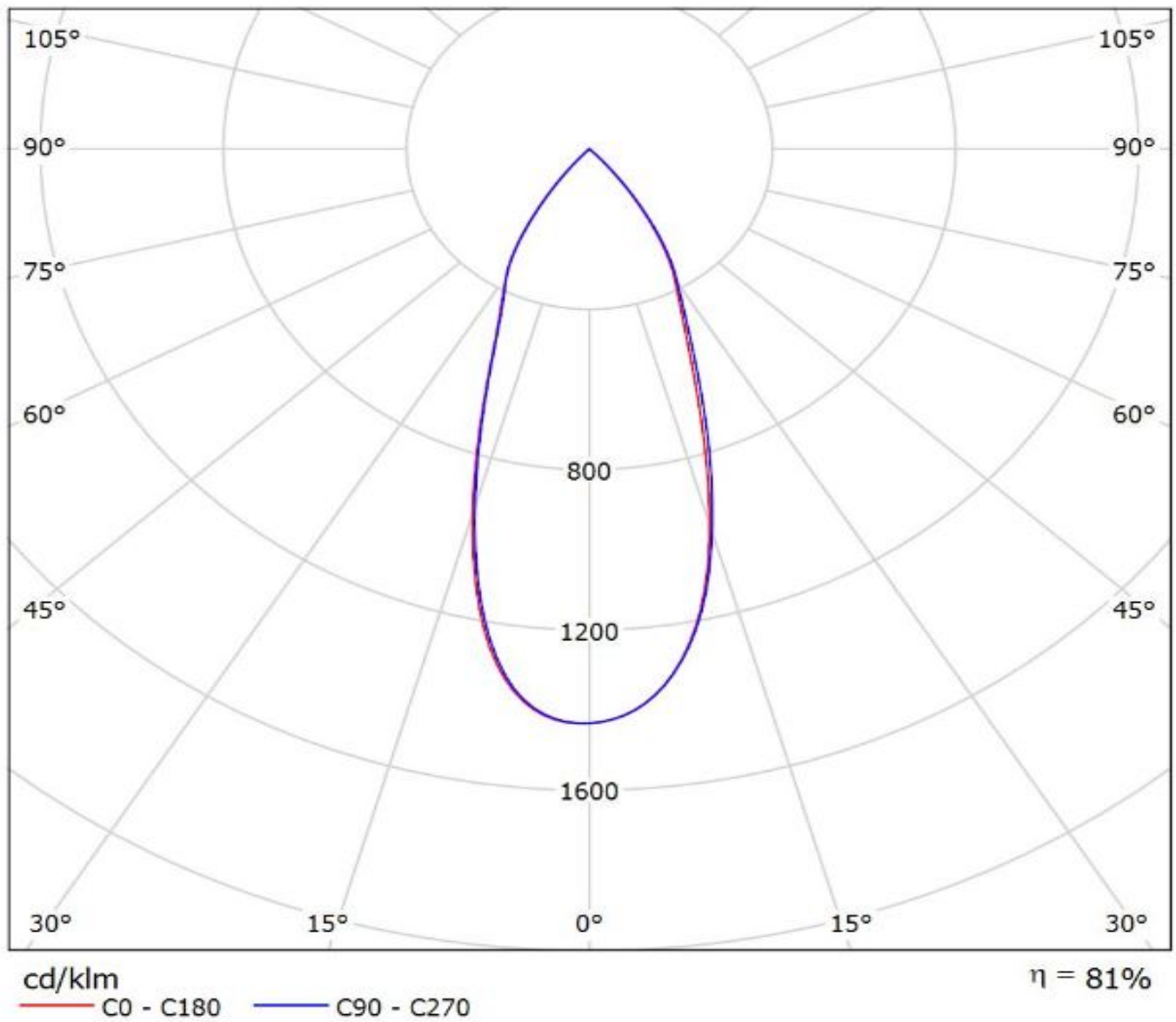
Luminaire: LEDiL Oy CN13923\_MIRELLA-50-W-PF-VERO13\_(XENIO\_13MM)  
Lamps: 1 x XENIO\_13MM\_2066.26lm@?mA\_P=23W\_I=?A



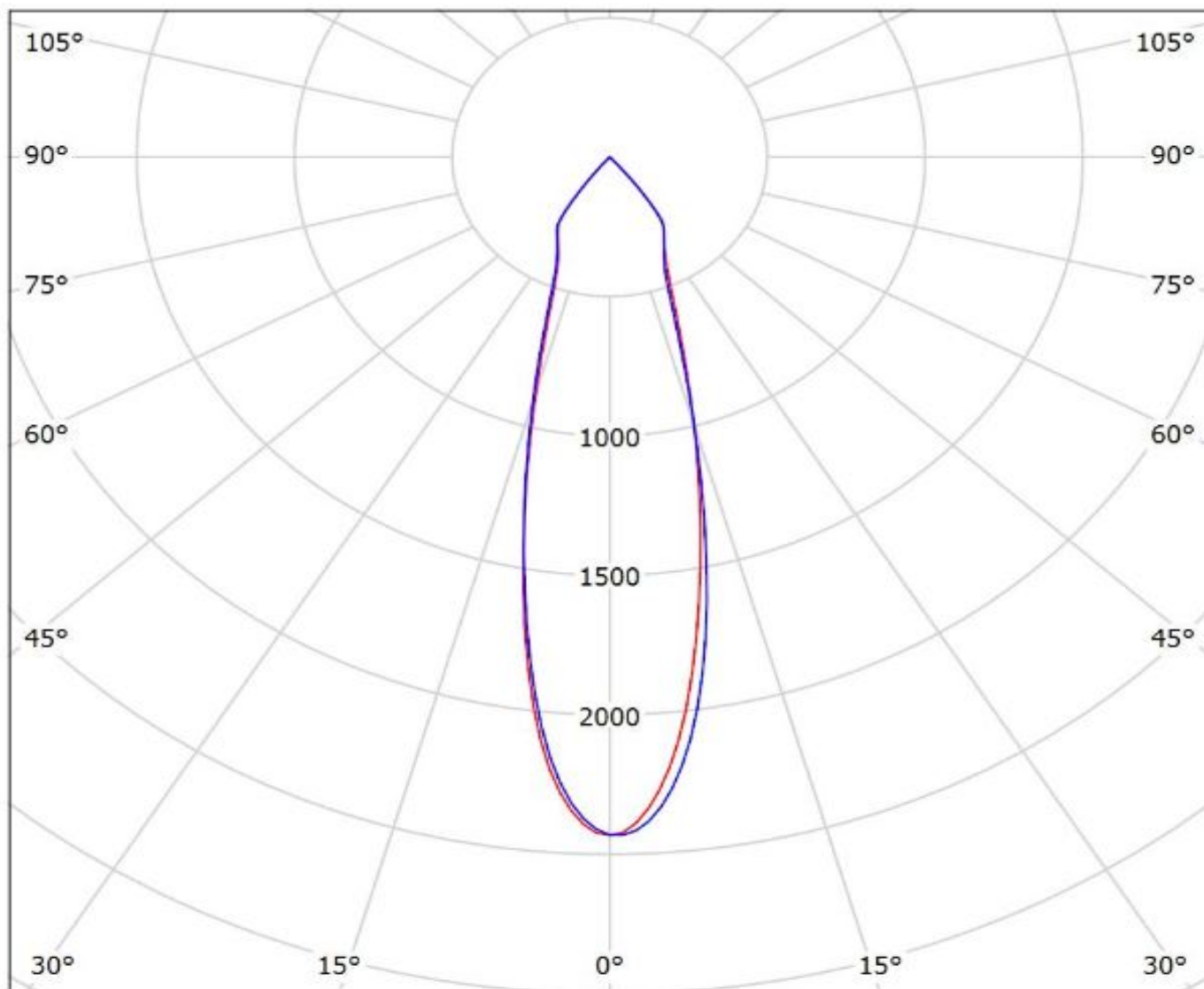
# Ledil CN13923\_MIRELLA-50-W-PF-VERO13\_(CLU720) / LDC (Polar)

Luminaire: Ledil CN13923\_MIRELLA-50-W-PF-VERO13\_(CLU720)

Lamps: 1 x Citizen\_(CLU720)\_ (433\_Typ\_L1)\_ (C13709)\_ 1238.41lm@250mA\_P=8.3W\_I=0.25A



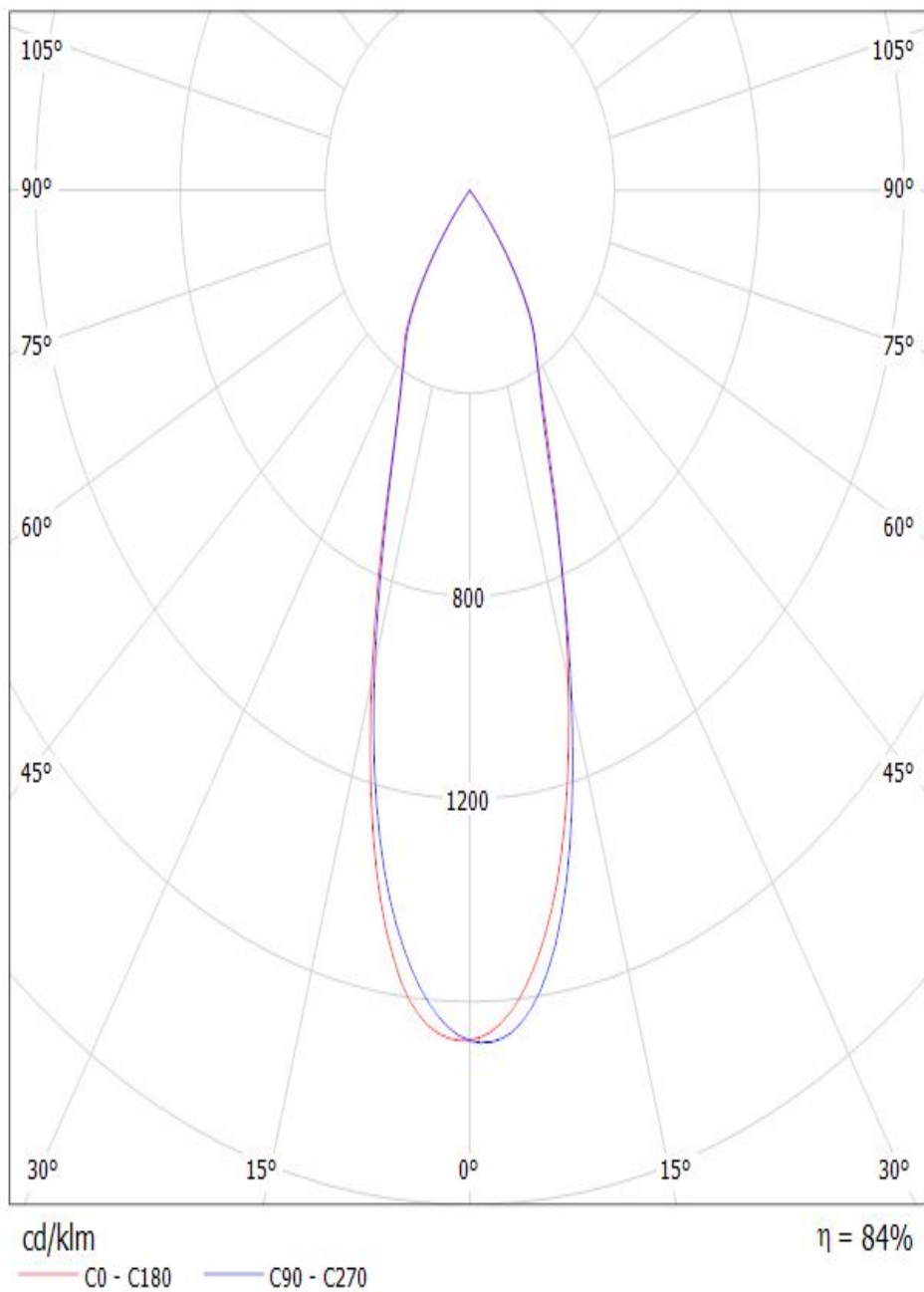
Luminaire: Ledil CN13923\_MIRELLA-50-W-PF-VERO13\_(CLU700) Citizen\_CLU700\_(CLU700-1002B8-273M2G1)\_ (434\_Typ\_L1)\_ (C13709\_PF-SOCKET-VERO13-18)\_389.152lm@100mA\_P=2.8W\_I=0.10A  
Lamps: 1 x Citizen\_CLU700\_(CLU700-1002B8-273M2G1)\_ (434\_Typ\_L1)\_ (C13709\_PF-SOCKET-VERO13-18)\_389.152lm@100mA\_P=2.8W\_I=0.10A



cd/klm  
— C0 - C180 — C90 - C270

$\eta = 83\%$

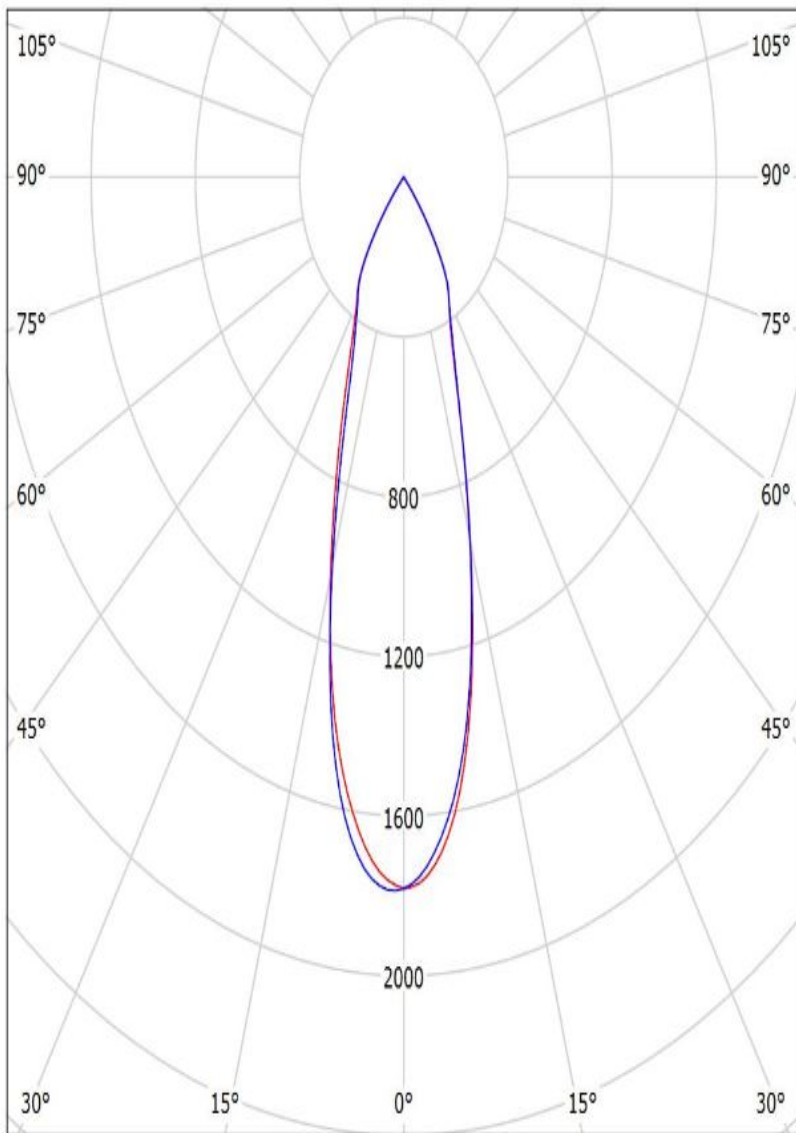
Luminaire: LEDiL Oy CN13923\_MIRELLA-50-W-PF-VERO13\_(CLU024) Citizen\_CLU024\_(434\_Typ\_L1)\_(C13709)\_1022.97lm@250mA\_P=8.5066W\_l=0.2499A  
Lamps: 1 x Citizen\_CLU024\_(434\_Typ\_L1)\_(C13709)\_1022.97lm@250mA\_P=8.5066W\_l=0.2499A





Luminaire: Ledil CN13923\_MIRELLA-50-W-PF-VERO13\_(CXA1520)\_(441\_Typ\_L1) CREE\_CXA1520\_(CXA1520-30F-N4-N0H-00001)\_(441\_Typ\_L1)\_(C13709\_PF-SOCKET-VERO13-18)\_1033.5lm@250mA\_P=8.8W\_I=0.25A

Lamps: 1 x CREE\_CXA1520\_(CXA1520-30F-N4-N0H-00001)\_(441\_Typ\_L1)\_(C13709\_PF-SOCKET-VERO13-18)\_1033.5lm@250mA\_P=8.8W\_I=0.25A



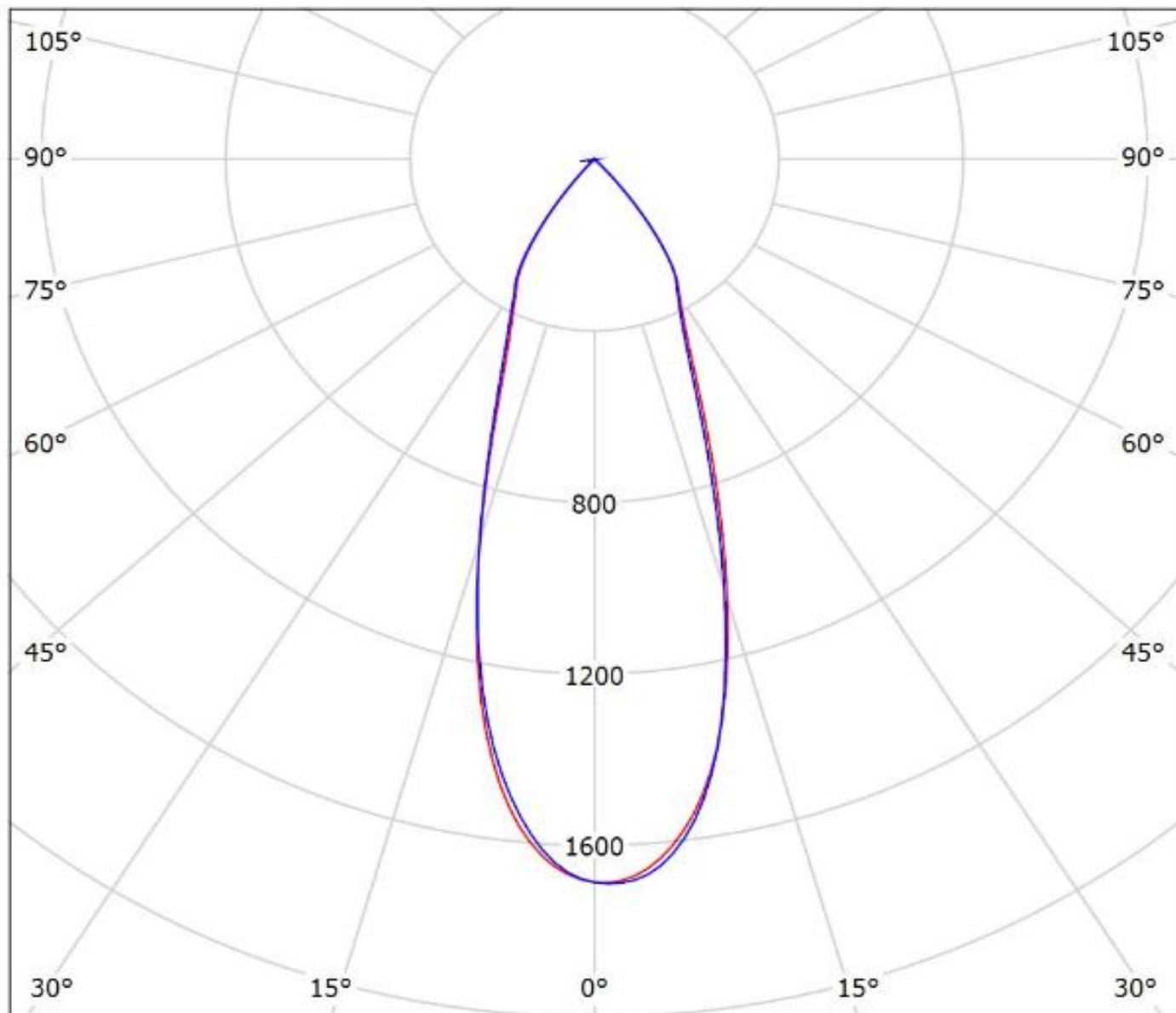
cd/klm

— C0 - C180 — C90 - C270

$\eta = 82\%$

Luminaire: Ledil CN13923\_MIRELLA-50-W-PF-VERO13\_(CoB\_1203)

Lamps: 1 x Luxeon\_CoB\_1203\_(438 Typ L1)\_1054.48lm@250mA\_P=0.7\_I=0.25A

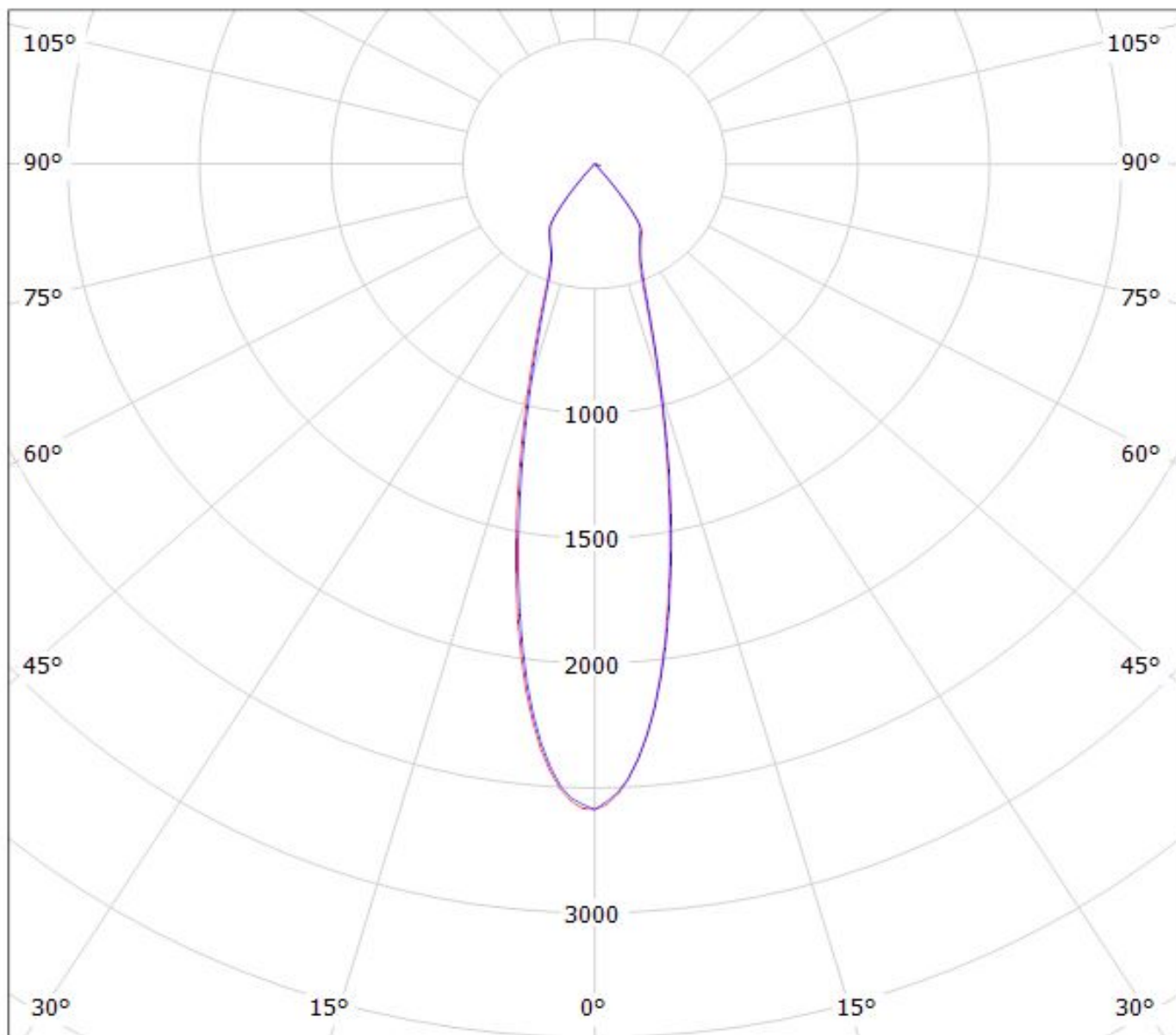


cd/klm

— C0 - C180 — C90 - C270

$\eta = 82\%$

Luminaire: LEDiL Oy CN13923\_MIRELLA-50-W-PF-VERO13\_(Luxeon\_CoB\_1202s)  
Lamps: 1 x Luxeon\_CoB\_1202s\_(452 Typ L1)\_231.765lm@100mA\_P=1.62683W\_I=0.10A



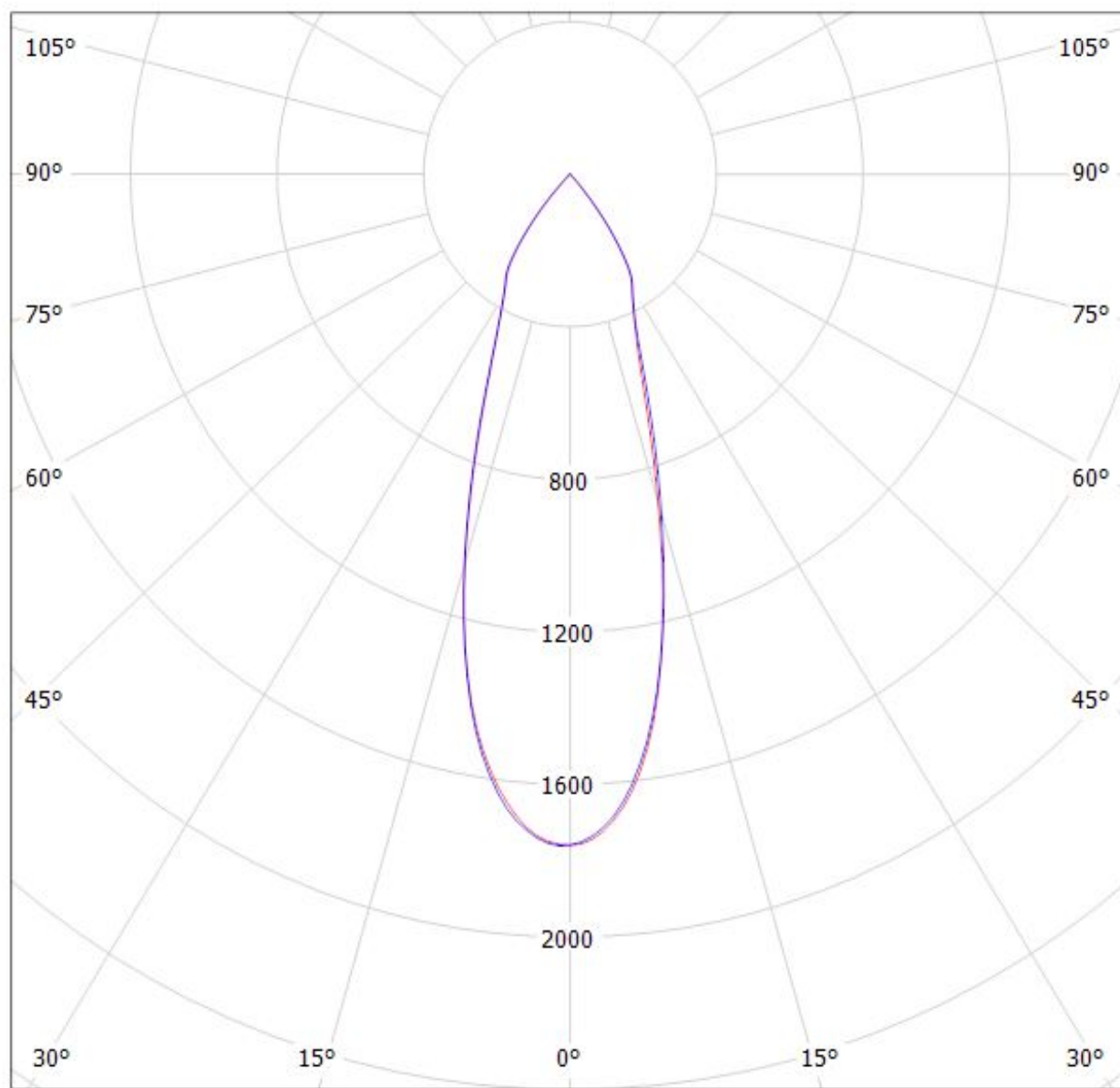
cd/klm

— C0 - C180 — C90 - C270

$\eta = 85\%$

Luminaire: LEDiL Oy CN13923\_MIRELLA-50-W-PF-VERO13\_(NFCLL036B)

Lamps: 1 x Nichia NFCLL036B (sm403J1300R8000)\_542.652lm@100mA\_CCT=4000K\_P=3.34084W\_I=0.100A



cd/klm

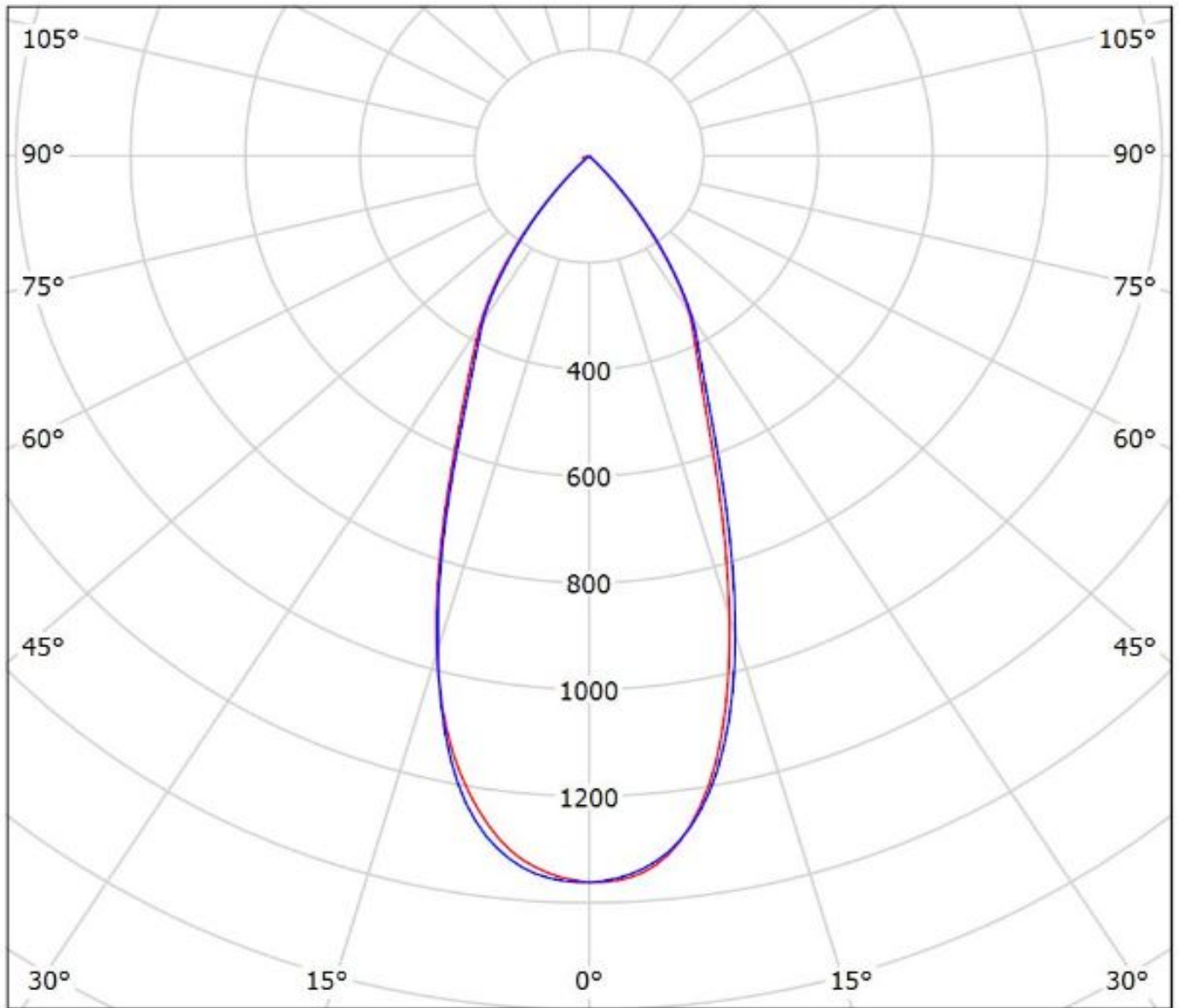
$\eta = 84\%$

— C0 - C180

— C90 - C270

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

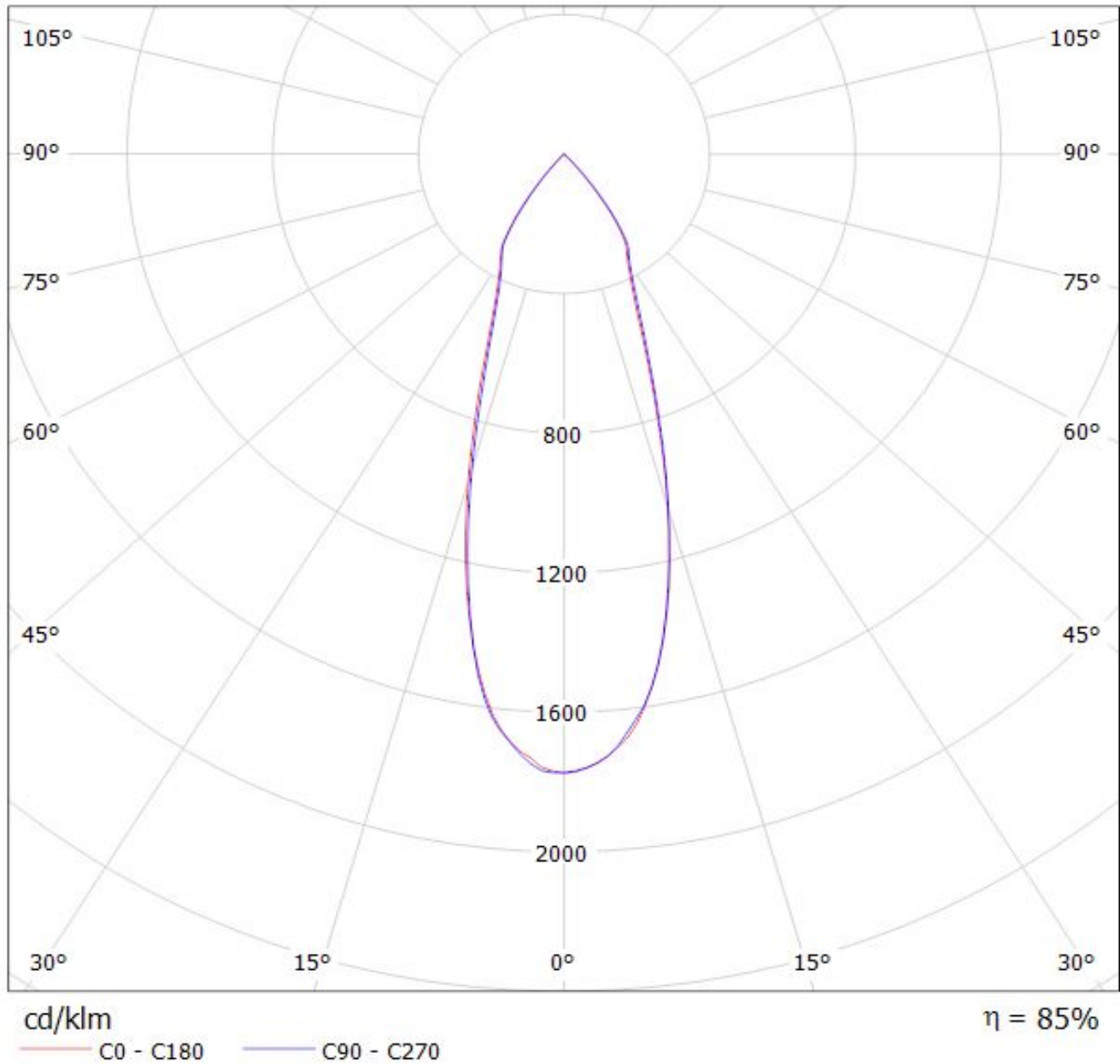


cd/klm

— C0 - C180    — C90 - C270

$\eta = 81\%$

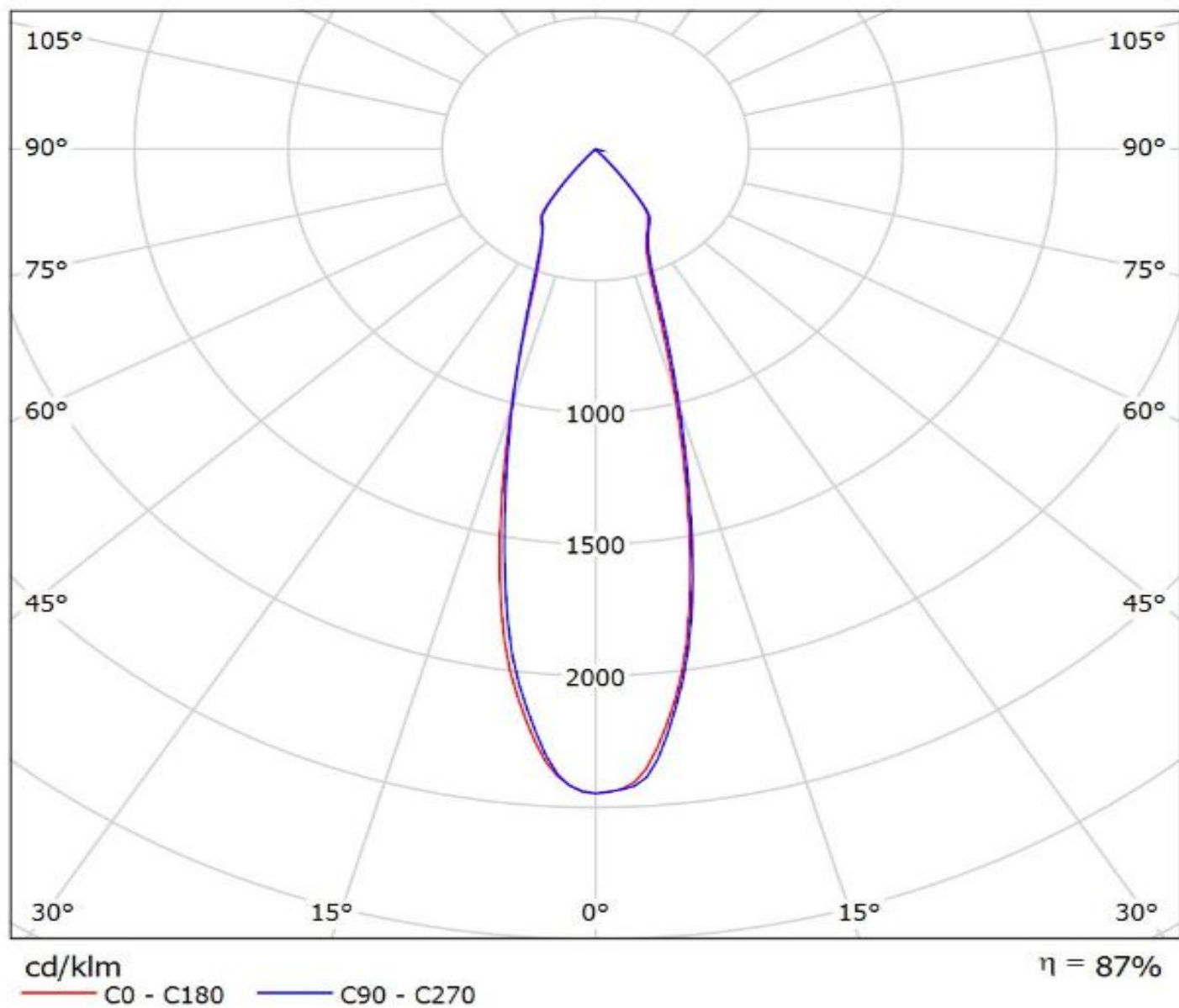
Luminaire: LEDiL Oy CN13923\_MIRELLA-50-W-PF-VERO13\_(Soleriq P9+461 Typ L1)  
Lamps: 1 x Soleriq P9+461 Typ L1\_881.86lm@250mA\_P=6.96846W\_I=250mA



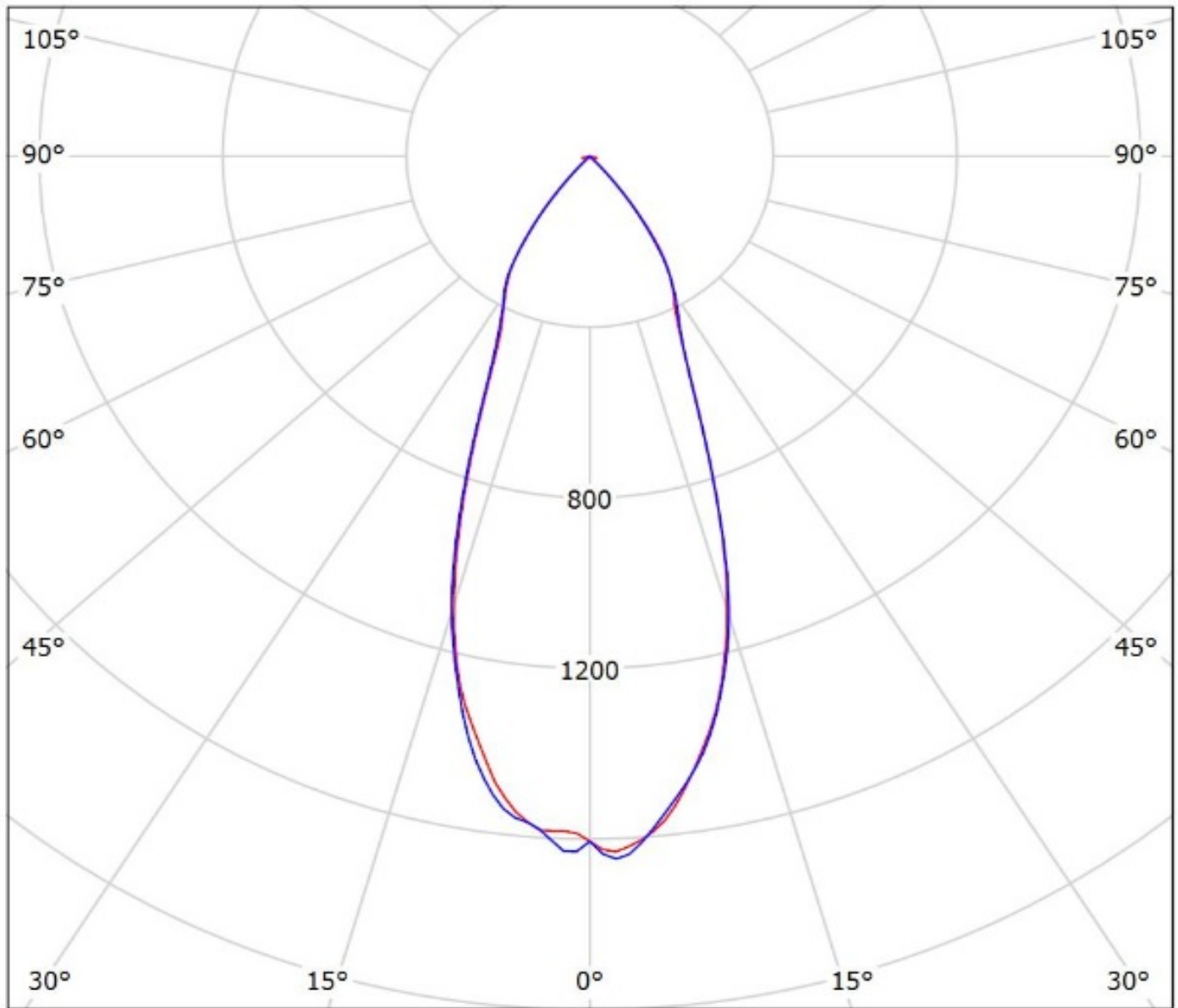
# LEDiL Oy CN13923\_MIRELLA-50-W-PF-VERO13\_(Soleriq\_P6) / LDC (Polar)

Luminaire: LEDiL Oy CN13923\_MIRELLA-50-W-PF-VERO13\_(Soleriq\_P6)

Lamps: 1 x Osram\_Soleriq\_P6\_(446 Typ L1)\_464.246lm@250mA\_P=6.28598W\_I=0.25A



Luminaire: Ledil Oy CN13923\_MIRELLA-50-W-PF-VERO13\_(Soleriq\_S9)\_SIMULATED  
Lamps: 1 x Osram Soleriq S9 (GW KAFJB3.EM)



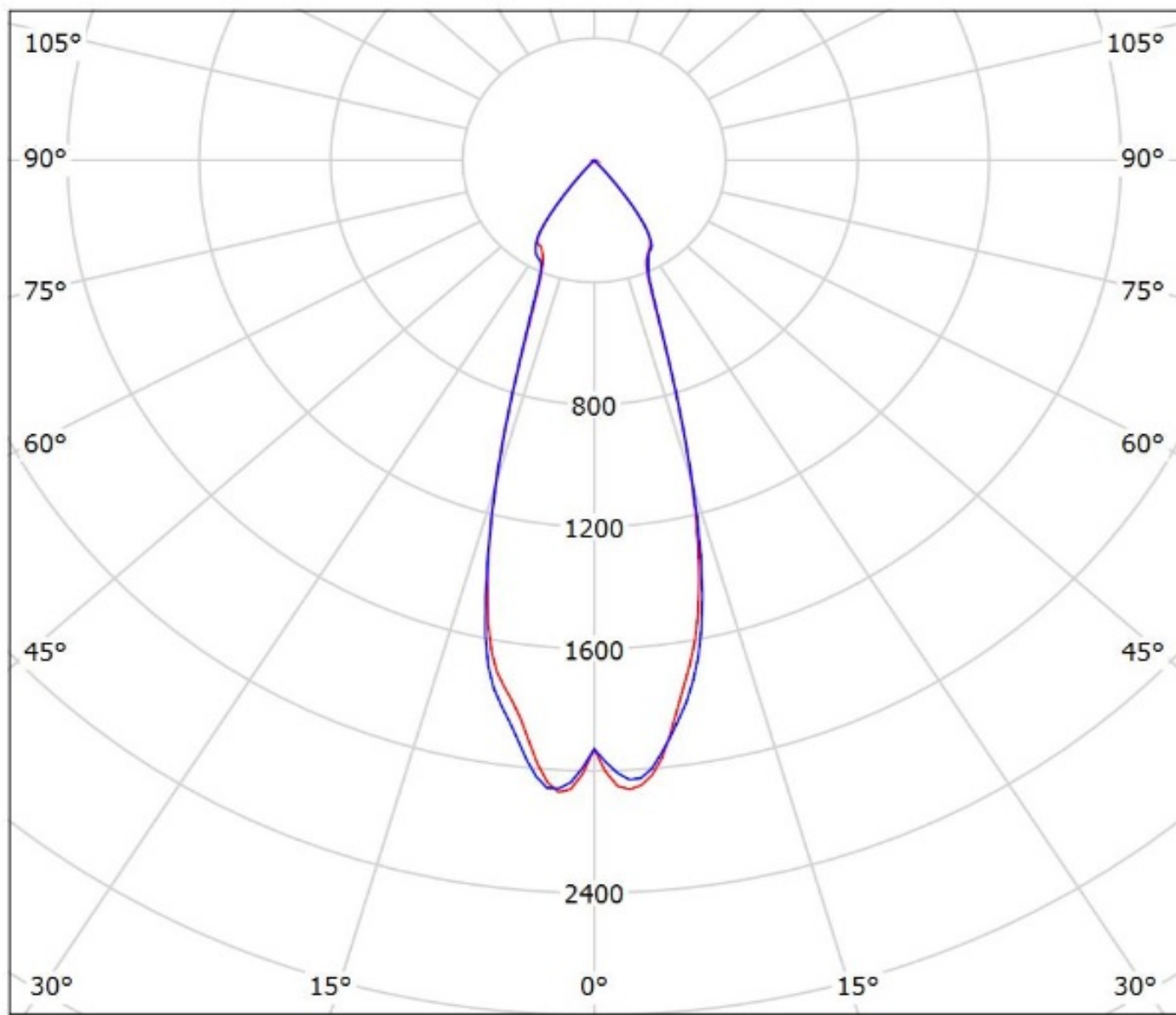
cd/klm

— C0 - C180 — C90 - C270

$\eta = 88\%$



Luminaire: Ledil Oy CN13923\_MIRELLA-50-W-PF-VERO13\_(LC010C)\_(479\_type\_L1)\_SIMULATED  
Lamps: 1 x Samsung LC010C + Bender & Wirth 479 Type L1

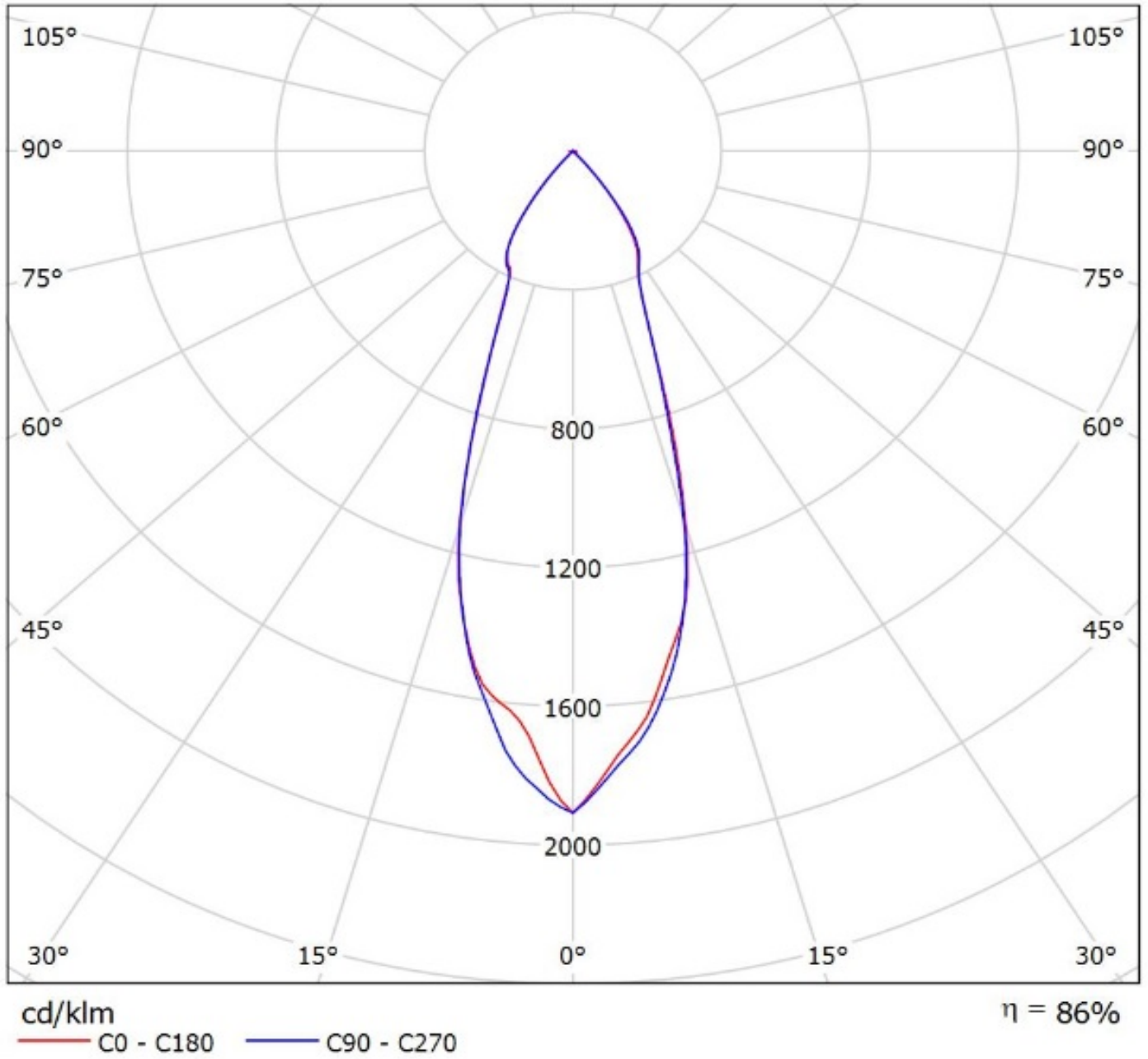


cd/klm

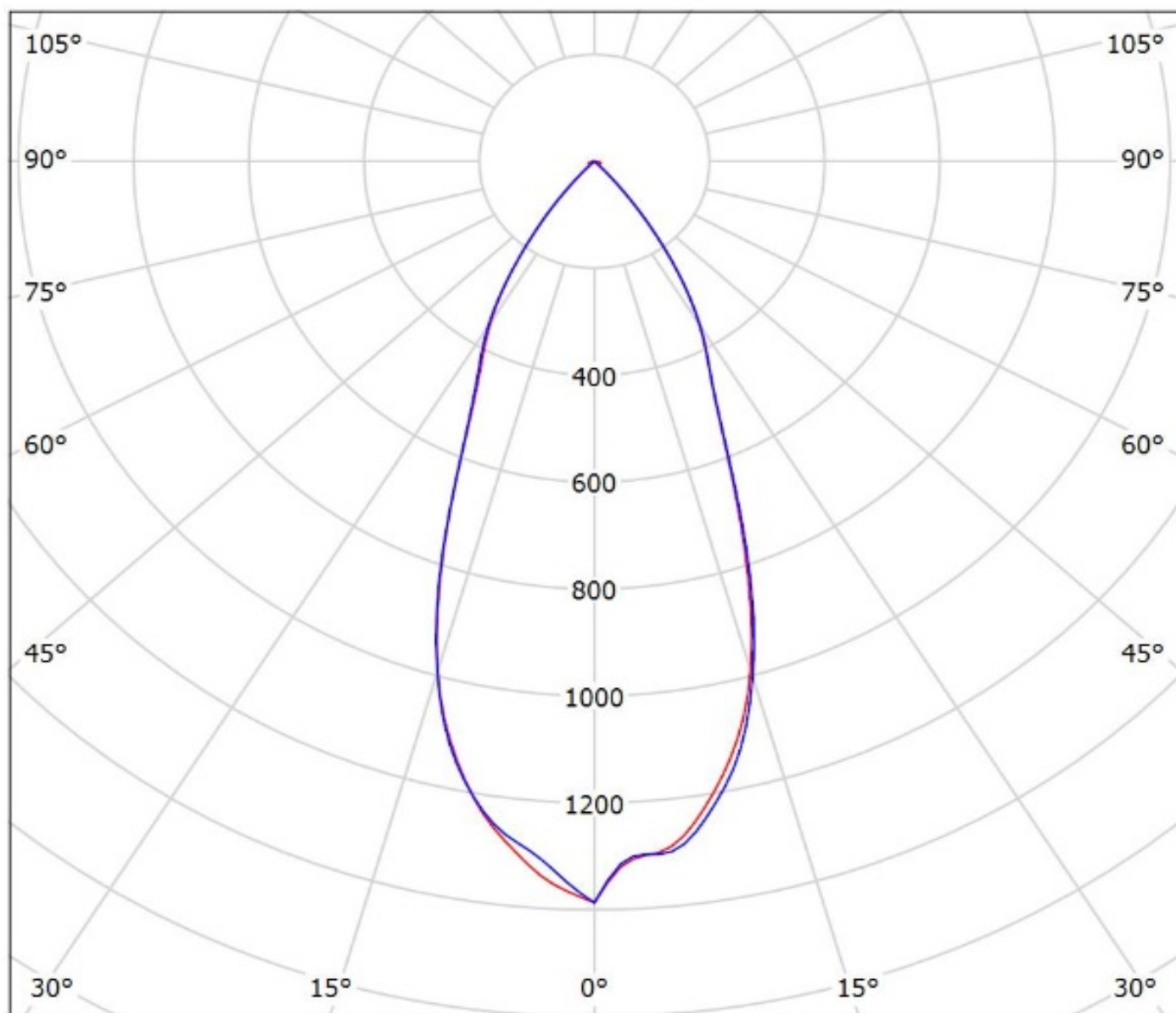
— C0 - C180 — C90 - C270

$\eta = 87\%$

Luminaire: Ledil Oy CN13923\_MIRELLA-50-W-PF-VERO13\_(LC020C)\_(479\_type\_L1)\_SIMULATED  
Lamps: 1 x Samsung LC020C + Bender & Wirth 479 Type L1



Luminaire: Ledil Oy CN13923\_MIRELLA-50-W-PF-VERO13\_(LC040C)\_(480\_type\_L1)\_SIMULATED  
Lamps: 1 x Samsung LC040C + Bender & Wirth 480 Type L1



cd/klm

— C0 - C180 — C90 - C270

$\eta = 84\%$

**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 series of LEDs.
- Special care taken to make light distribution as uniform as possible.

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.