

## DETAILS

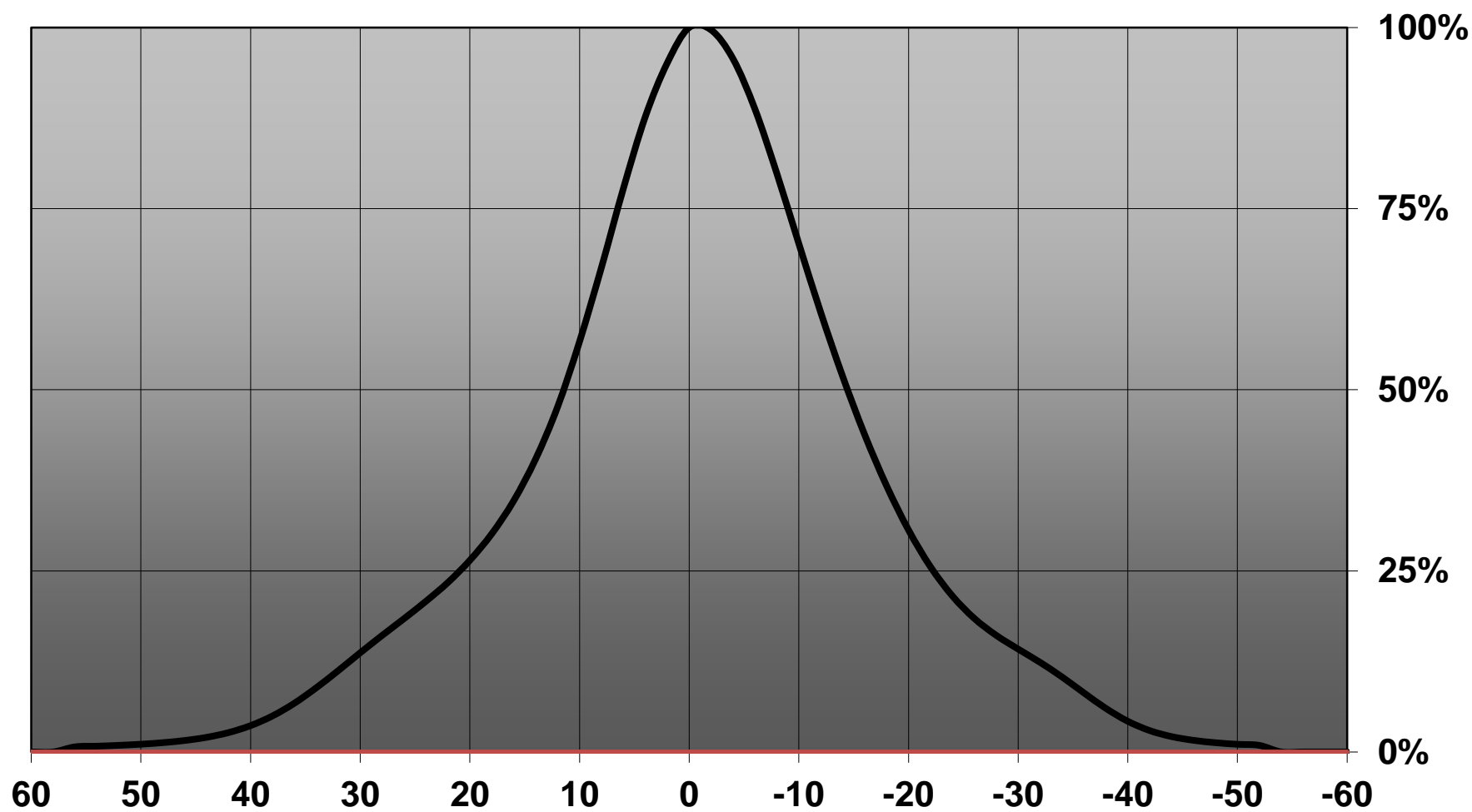
<b>Product Number</b>	CN12484_MIRELLA-50-M-DL
<b>Family</b>	Mirella
<b>Type</b>	RefPack
<b>Color</b>	metal
<b>Diameter</b>	49,9 mm
<b>Height</b>	23,9 mm
<b>Style</b>	round
<b>Optic Material</b>	PC
<b>Holder Material</b>	
<b>Fastening</b>	glue
<b>Status</b>	production ready
<b>ROHS Compliant</b>	Yes
<b>Date Updated</b>	21/04/2016

## OPTICAL PROPERTIES

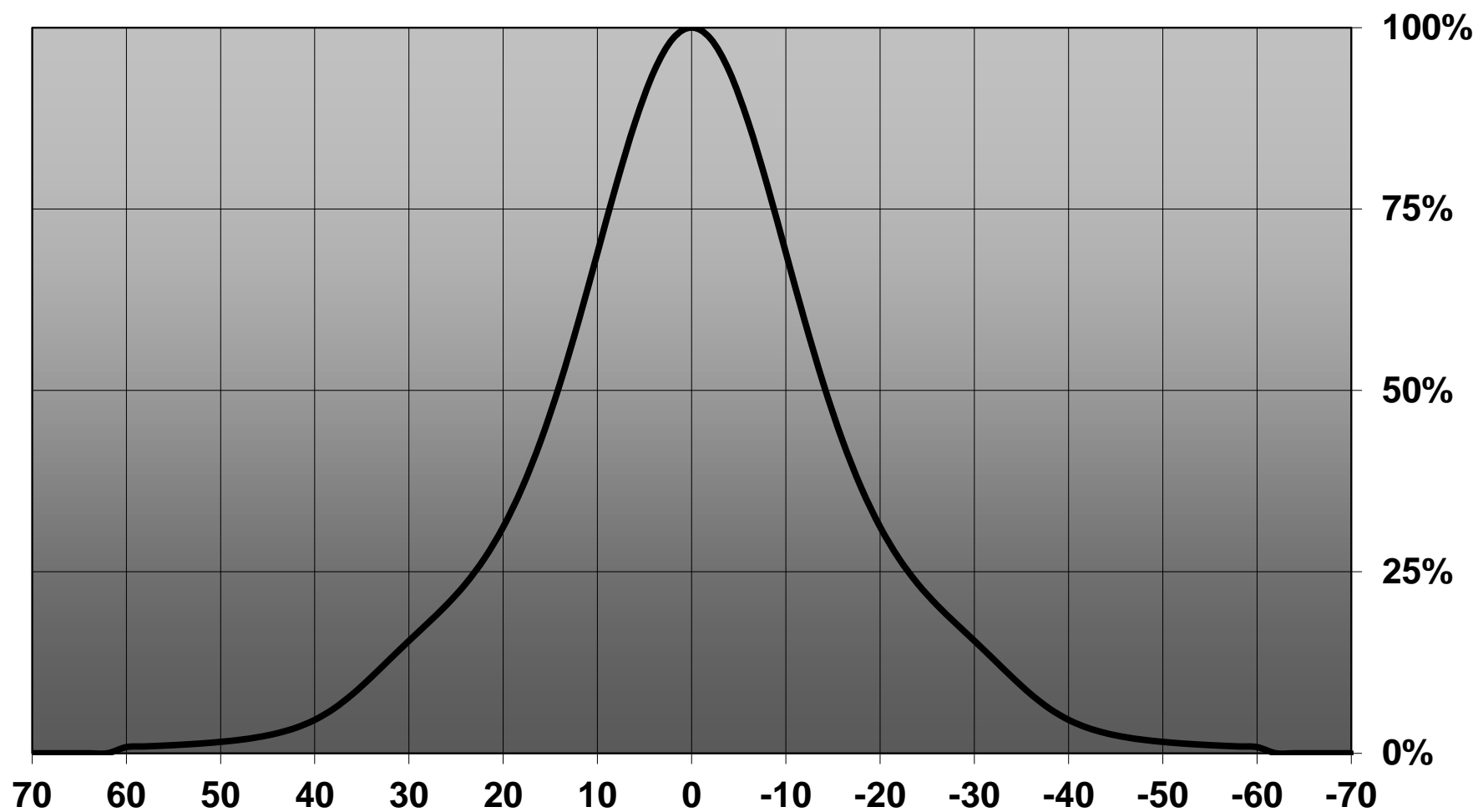
LED	Viewing Angle	Light Beam	Effi- ciency	cd/lm	Connector
Soleroiq S9	sim: 35	Medium	sim: 85 %	sim: 1.900	-
CXA/B 13xx	26 deg	Medium	80 %	2.400	-
LUXEON S1000	28 deg	Medium	-	sim: 0.000	-
COB 4W	29 deg	Medium	85 %	2.400	-
CLU700	29 deg	Medium	84 %	2.200	-
Mini Zenigata (GW6BM)	30 deg	Medium	83 %	1.900	-
STARK SLE PURE G3 LES10	31 deg	Medium	82 %	2.100	-
NSCxL036A	32 deg	Medium	85 %	2.100	-
ZC4/6	32 deg	Medium	83 %	2.100	-
Duris S10	32 deg	Medium	81 %	1.900	-
XHP50	33 deg	Medium	86 %	1.800	-
CXA/B 15xx	34 deg	Medium	89 %	1.700	-
NSBxL066A/NFCxL036B	34 deg	Medium	84 %	1.900	-
CXM-9	34 deg	Medium	85 %	1.700	-
BXRA LS	35 deg	Medium	83 %	1.600	-
LUXEON CoB 1202/1203	35 deg	Medium	85 %	1.900	-
CLU710	35 deg	Medium	81 %	1.500	-
CLL02x/CLU02x (LES10)	35 deg	Medium	82 %	1.650	-
XHP70	36 deg	Medium	87 %	1.700	-
MHD-E/G	37 deg	Medium	88 %	1.500	-
MT-G2	38 deg	Medium	83 %	1.700	-
CLU720	38 deg	Medium	82 %	1.400	-
CLL01x	39 deg	Medium	-	sim: 0.000	-
CXA/B 1816 & CXA/B 1820 & CXA 1850	39 deg	Medium	83 %	1.600	-
Soleroiq S13	39 deg	Medium	81 %	1.500	-



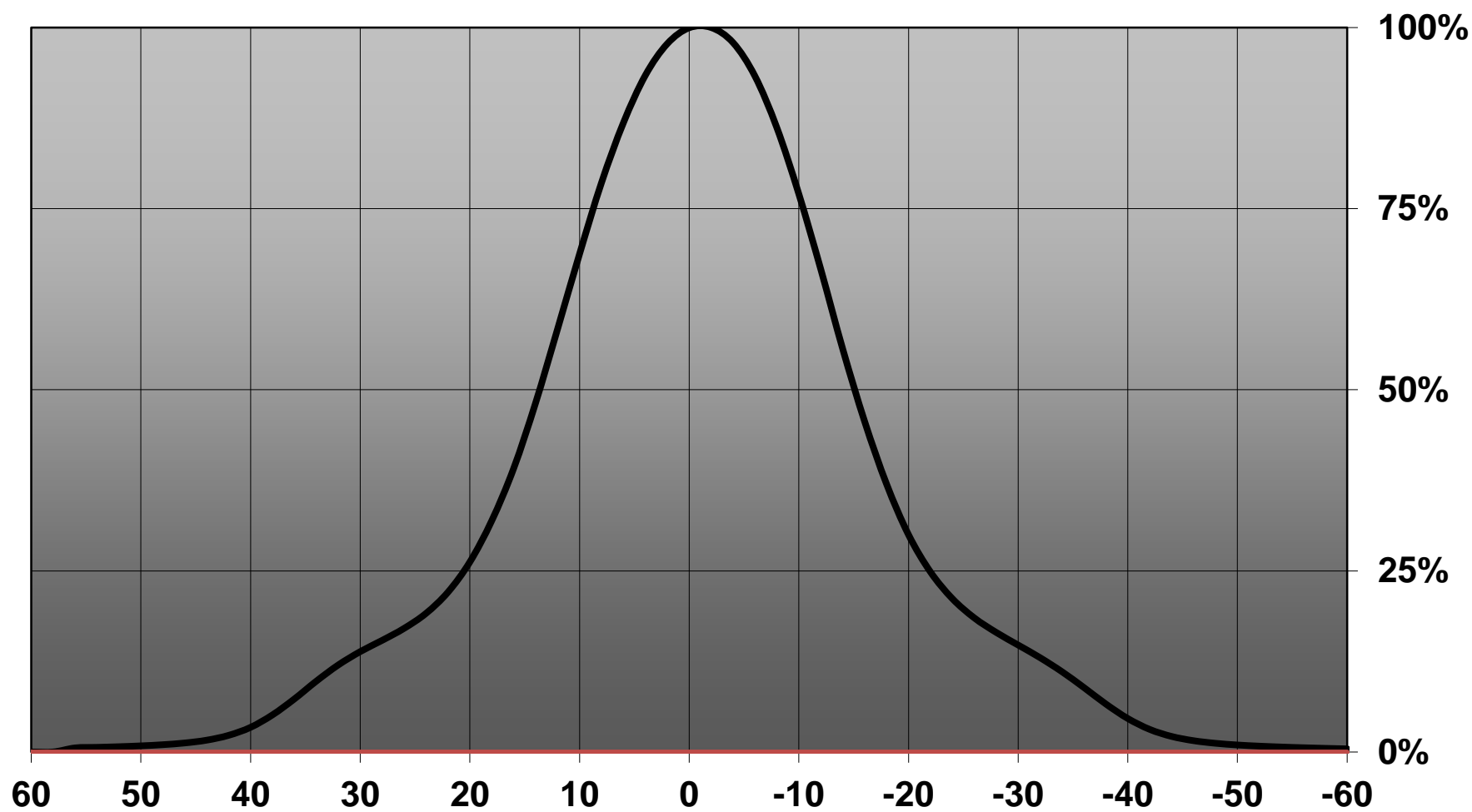
Relative intensity of CN12484\_MIRELLA-50-M-DL\_(CXA1304)



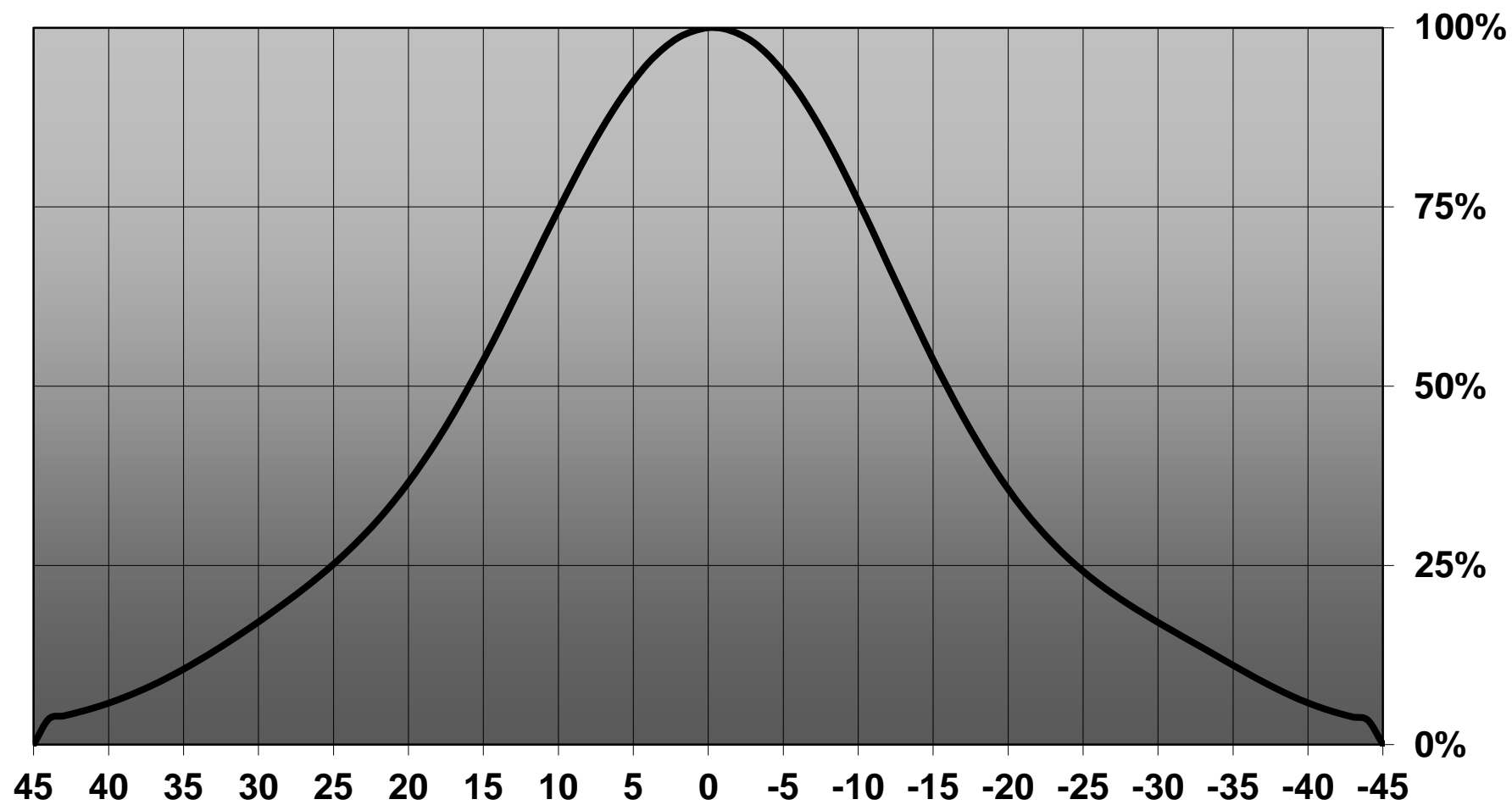
Relative intensity of CN12484\_MIRELLA-50-M-DL\_(Luxeon\_S)



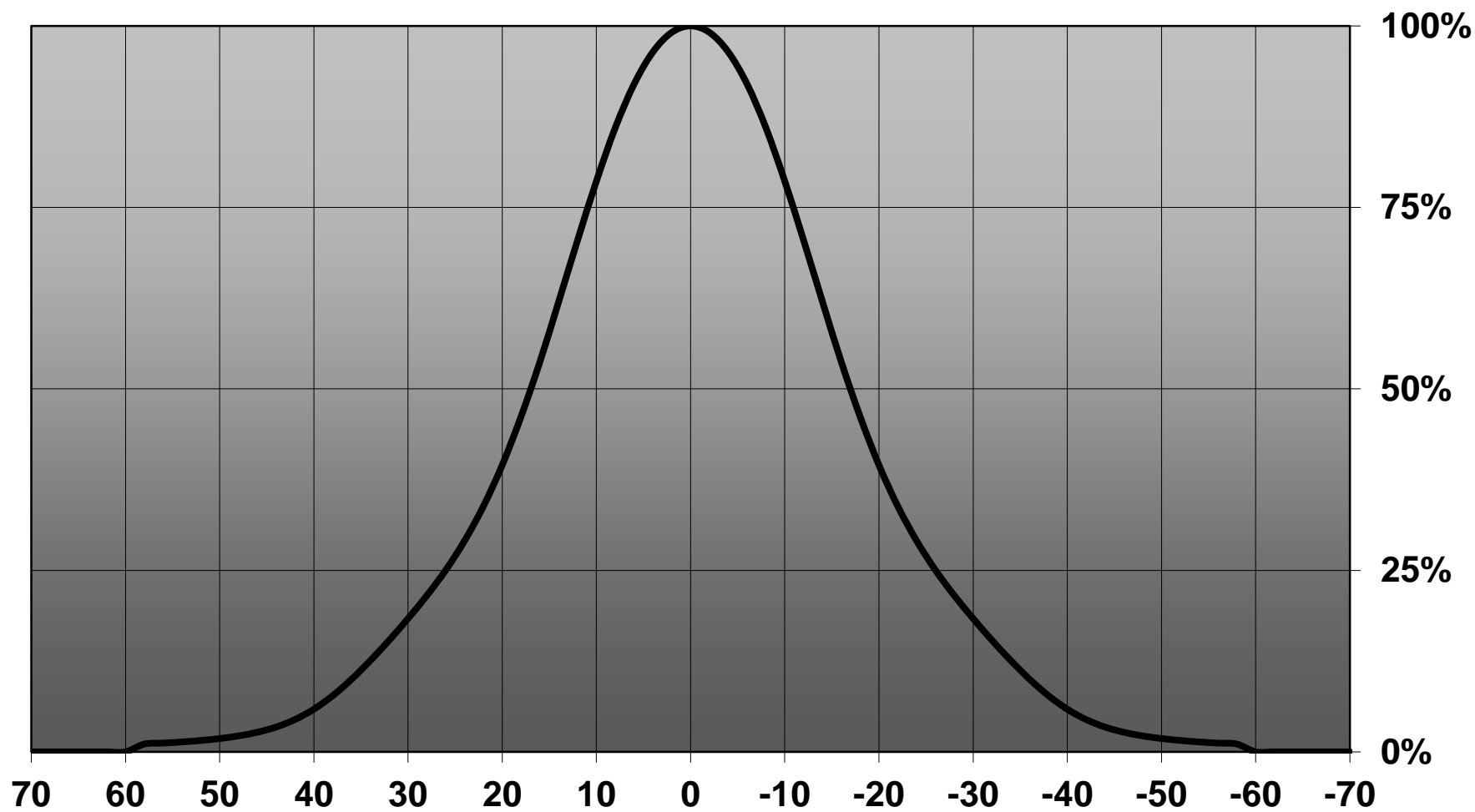
**Relative intensity of Mirella-M-DL-4WLG**



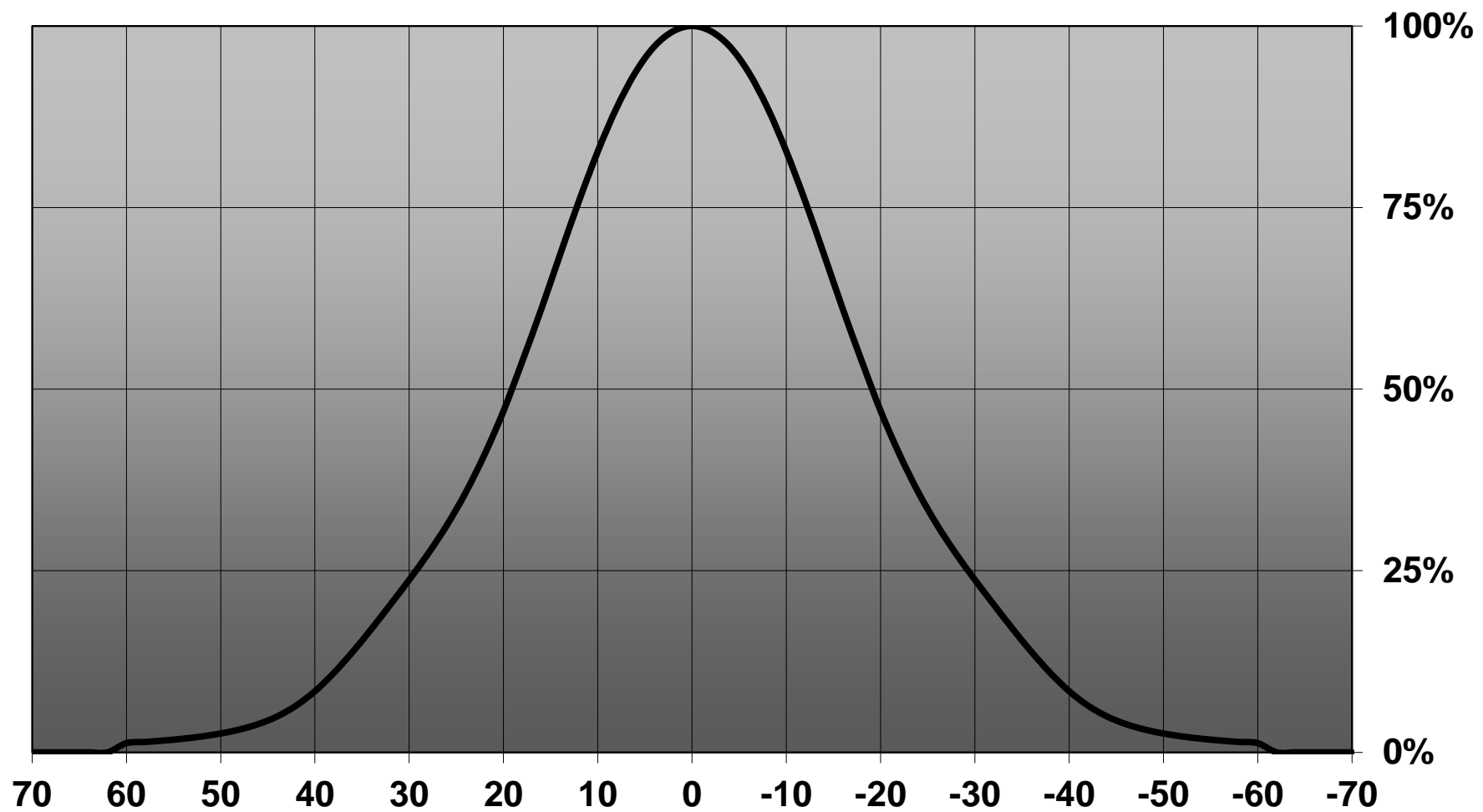
**Relative intensity of CN12484\_MIRELLA-50-M-DL\_(Duris\_S10)**



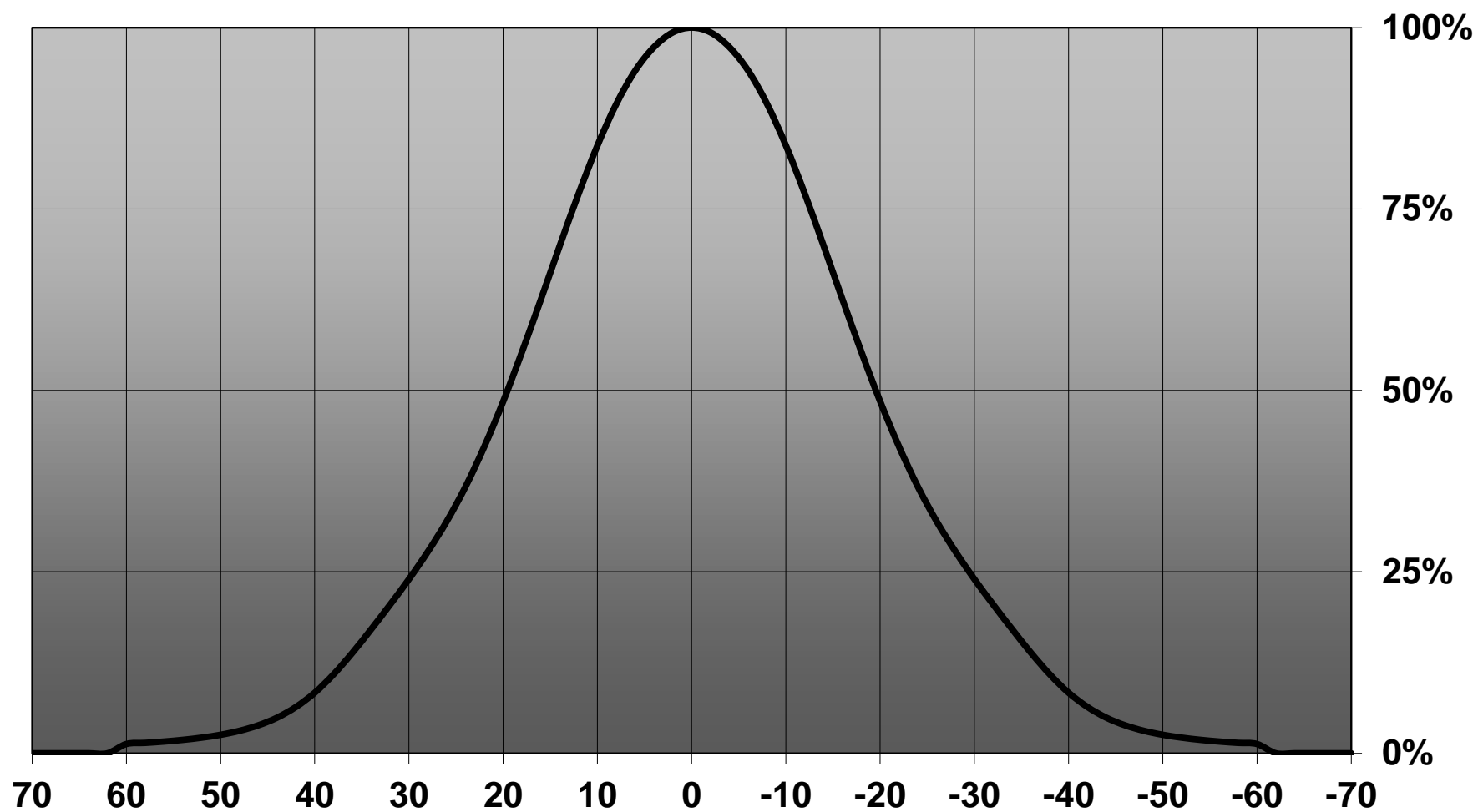
Relative intensity of CN12484\_MIRELLA-50-M-DL



**Relative intensity of CN12484\_MIRELLA-50-M-DL\_(MTG\_Gen\_II)**

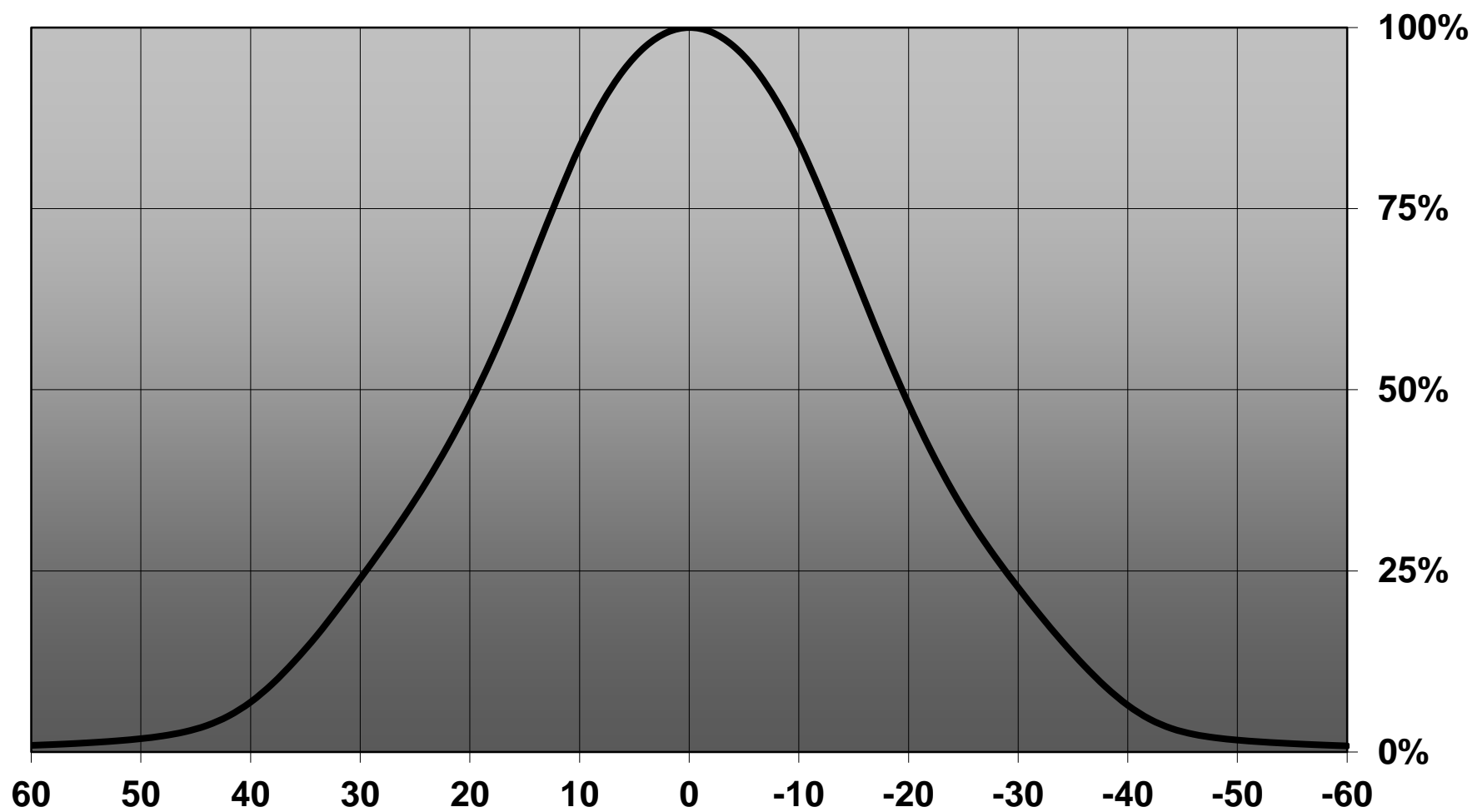


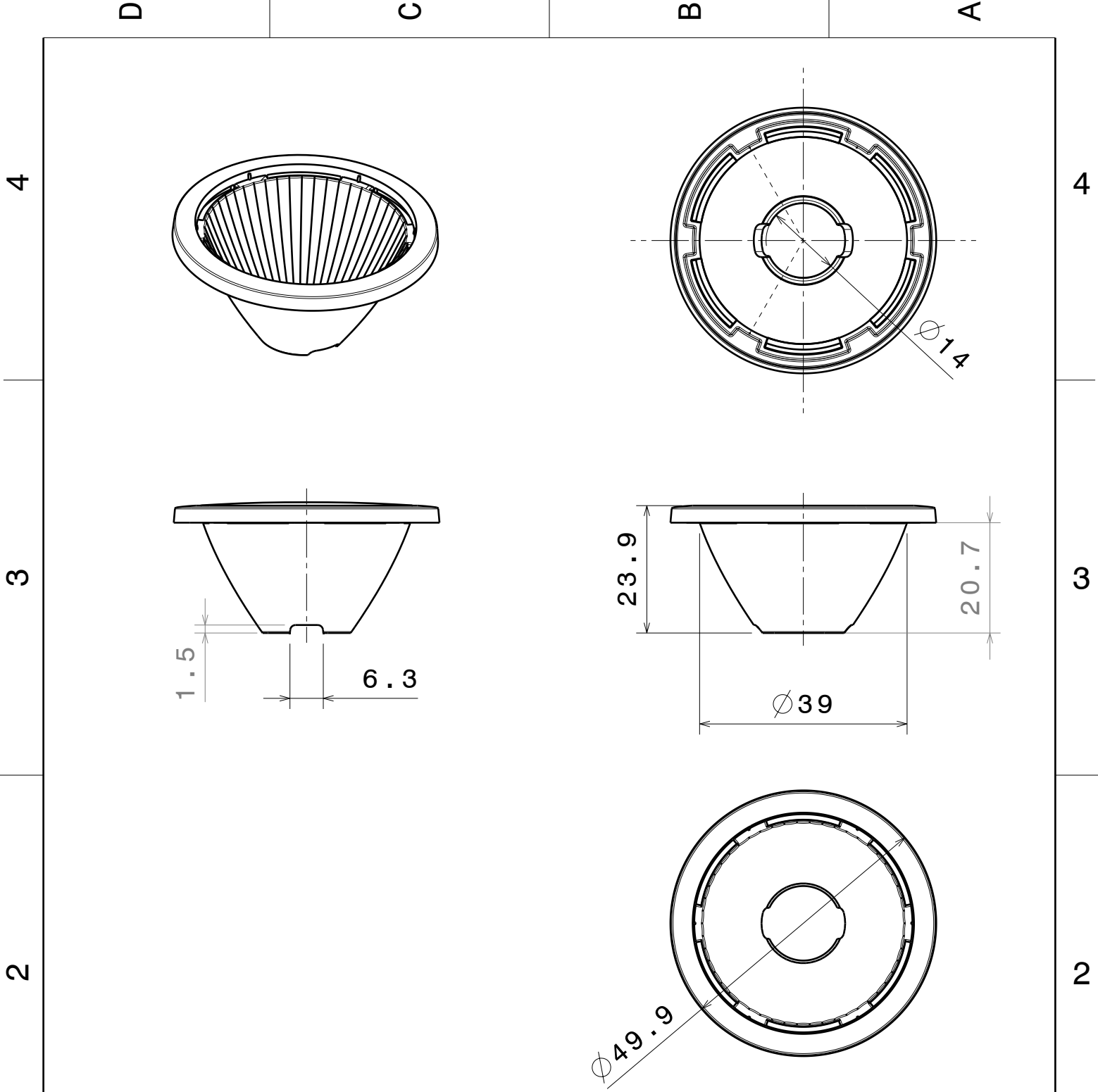
Relative intensity of CN12484\_MIRELLA-50-M-DL\_(CLL010)





**Relative intensity of CN12484\_MIRELLA-50-M-DL\_(CXA1816)**





Material: PC, metal plated

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our written agreement.



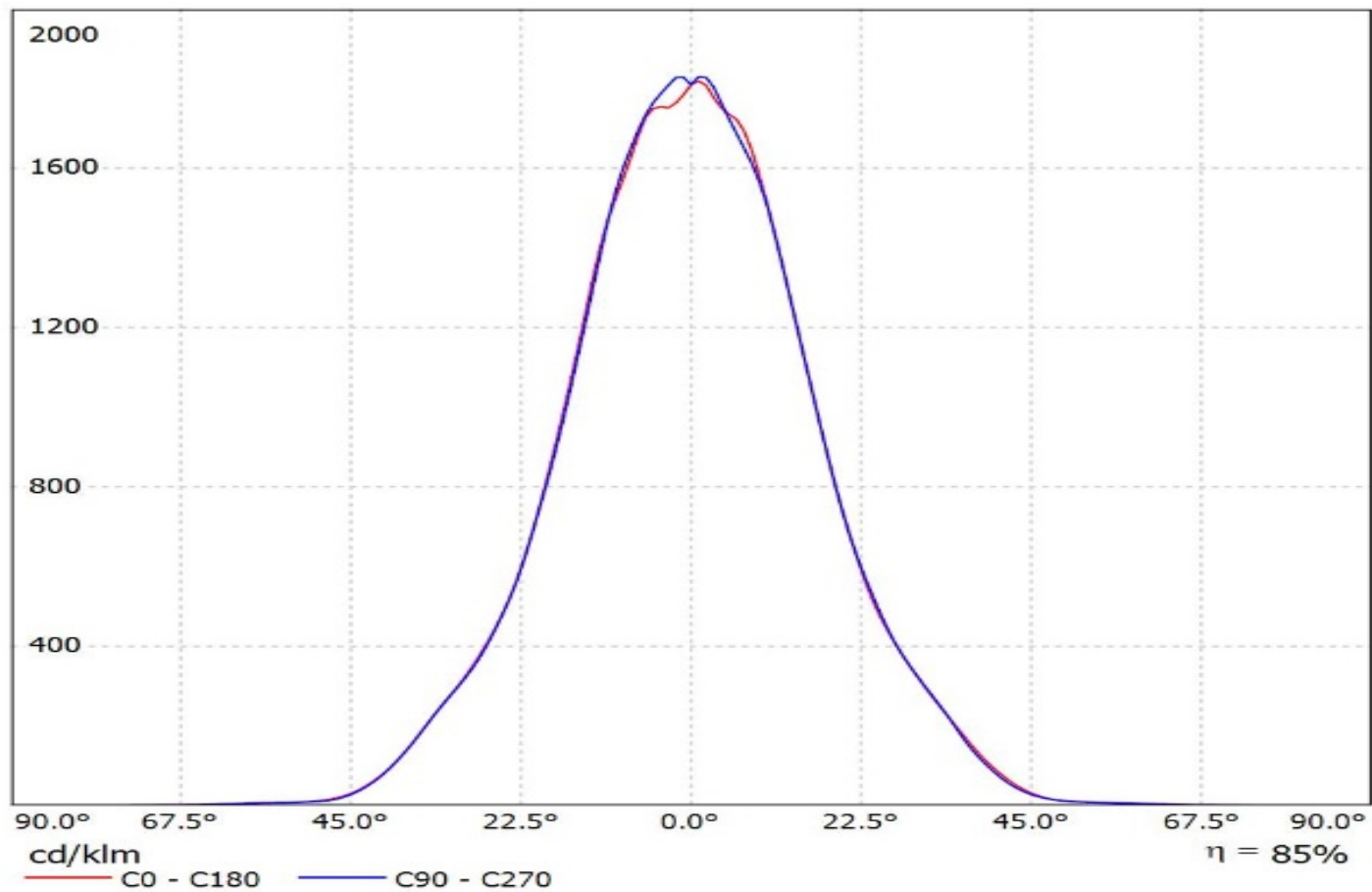
Ledil Oy  
Salorankatu 10  
FIN-24240 SALO  
Finland

DRAWING TITLE

Datasheet Mirella reflector

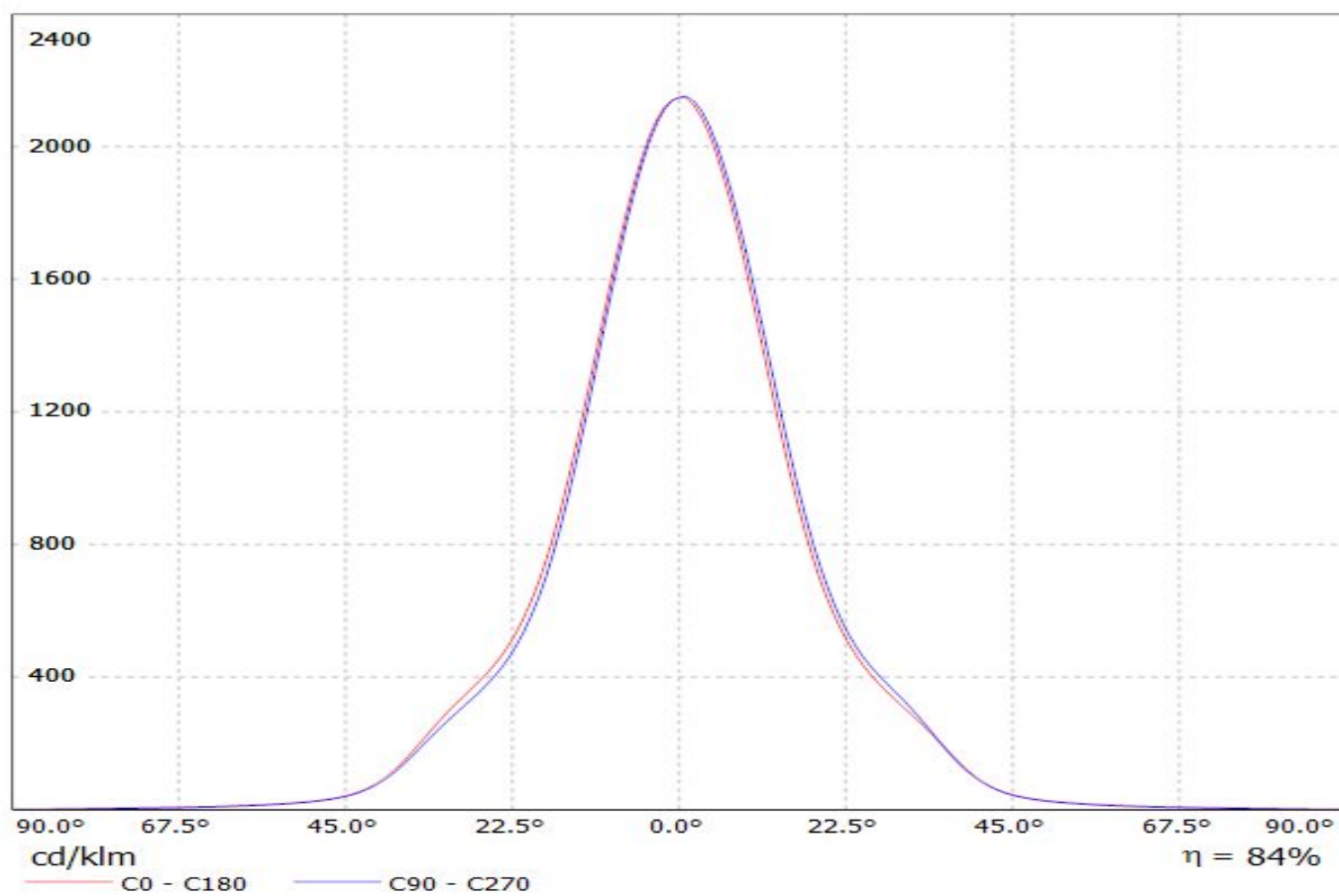
DRAWN BY pl	DATE 25.11.2011	Datasheet Mirella reflector					
CHECKED BY	DATE	SIZE A4	DRAWING NUMBER				REV 1
DESIGNED BY pl	DATE 25.11.2011	SCALE 1:1	WEIGHT (g)			SHEET 1/1	

Luminaire: Ledil Oy CN12484\_MIRELLA-50-M-DL\_(Soleriq\_S9)\_SIMULATED  
Lamps: 1 x Osram Soleriq S9 (GW KAJFB3.EM)

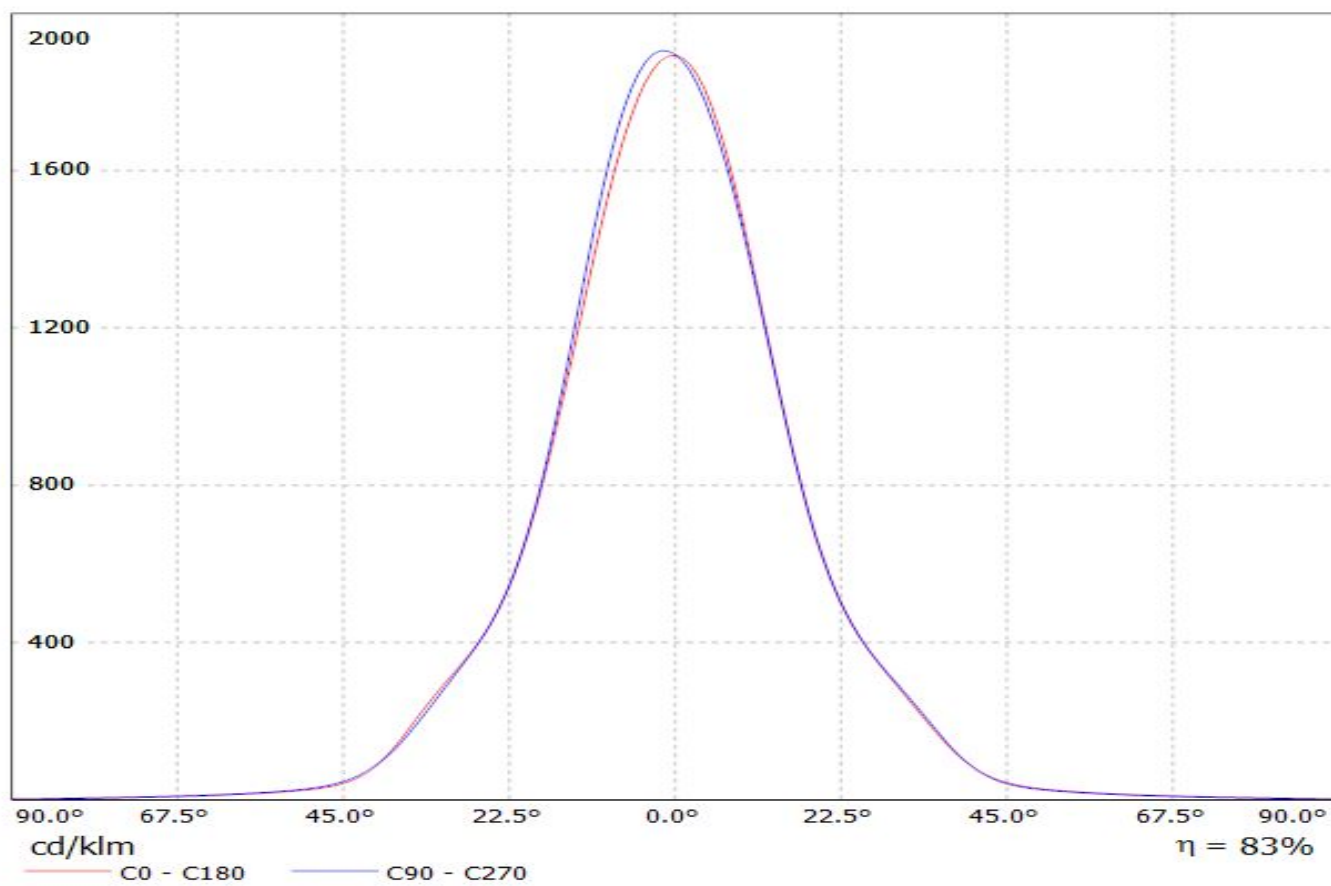


Luminaire: LEDiL Oy CN12484\_MIRELLA-50-M-DL\_(CLU700)

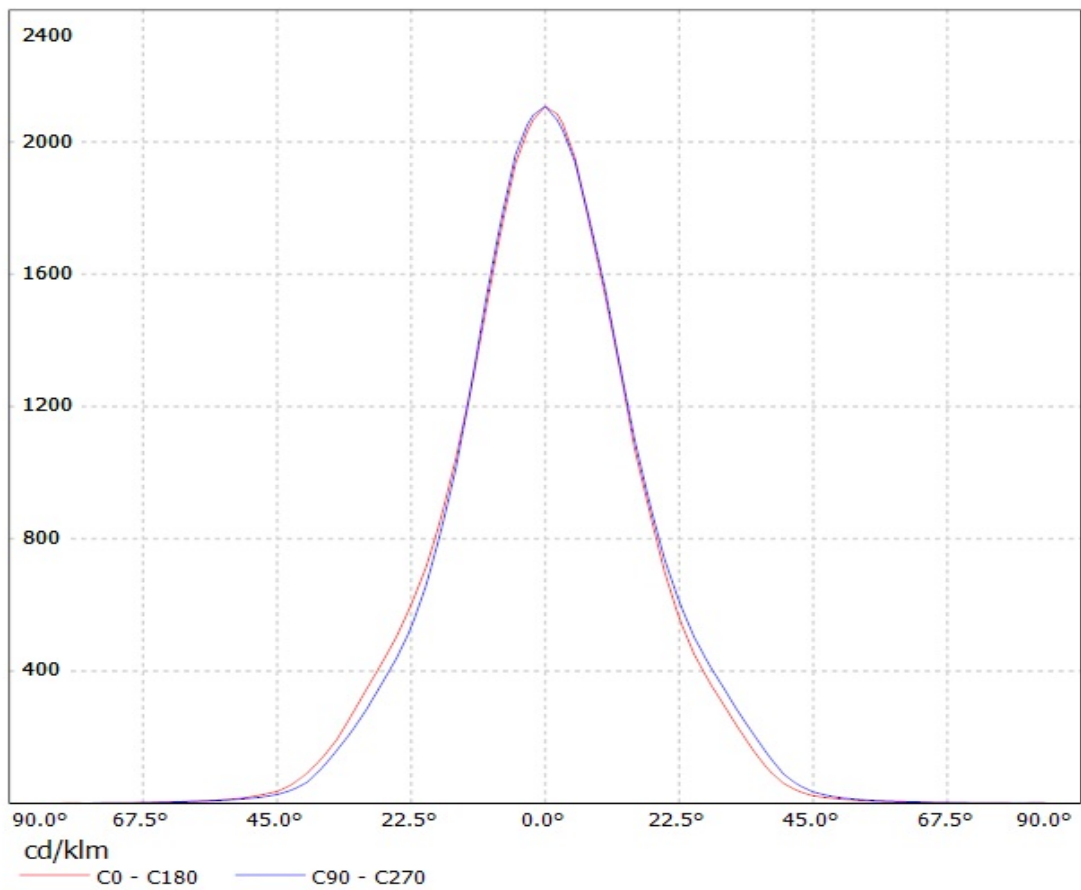
Lamps: 1 x CITIZEN\_CLU700\_(CLU700-100-2B8-273M2G1)\_380.605lm@250mA\_P=2.8002W\_I=0.1001A



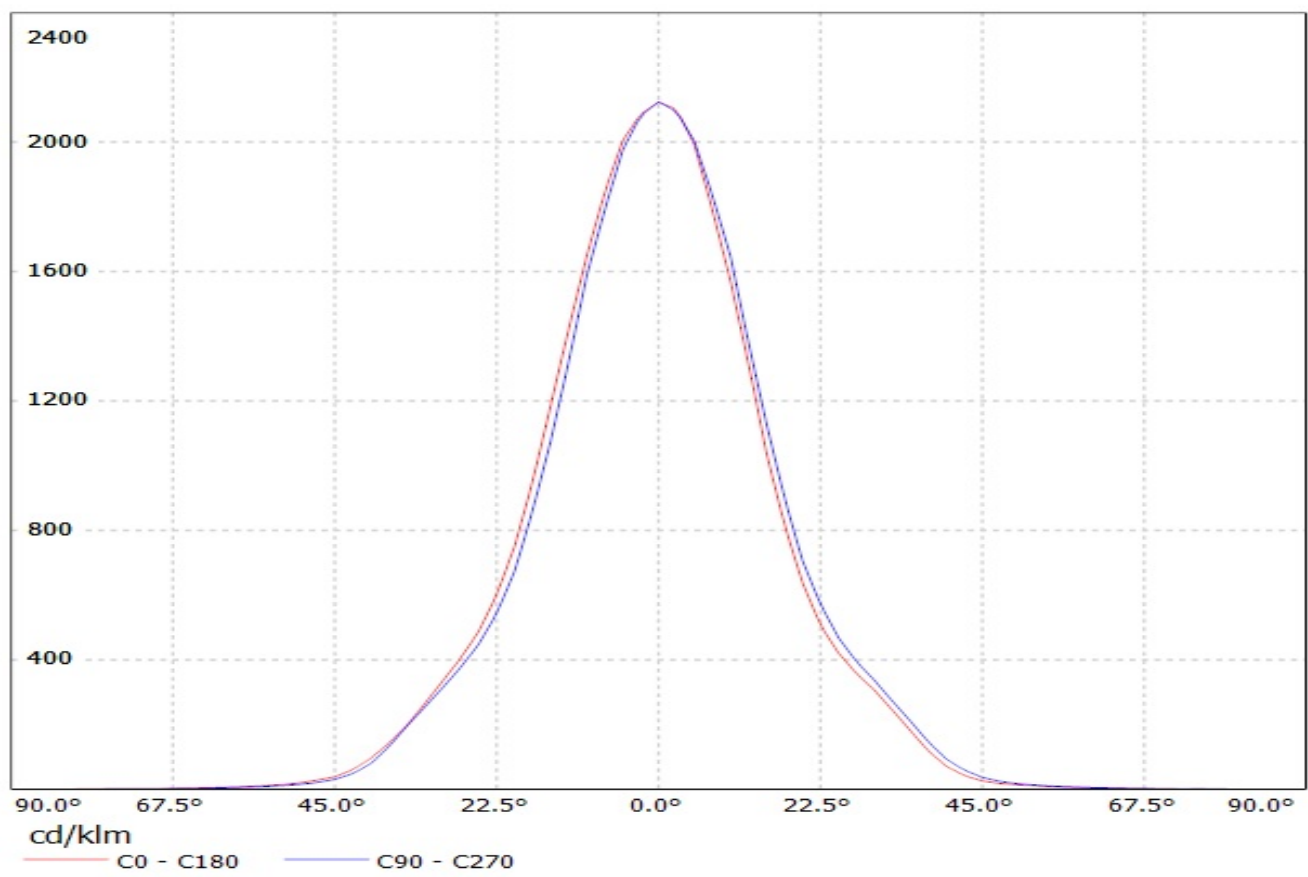
Luminaire: LEDiL Oy CN12484\_MIRELLA-50-M-DL\_(Mini\_Zenigata) Eff.83.3%  
Lamps: 1 x Mini\_Zenigata GW6BM (803.772lm@250mA)



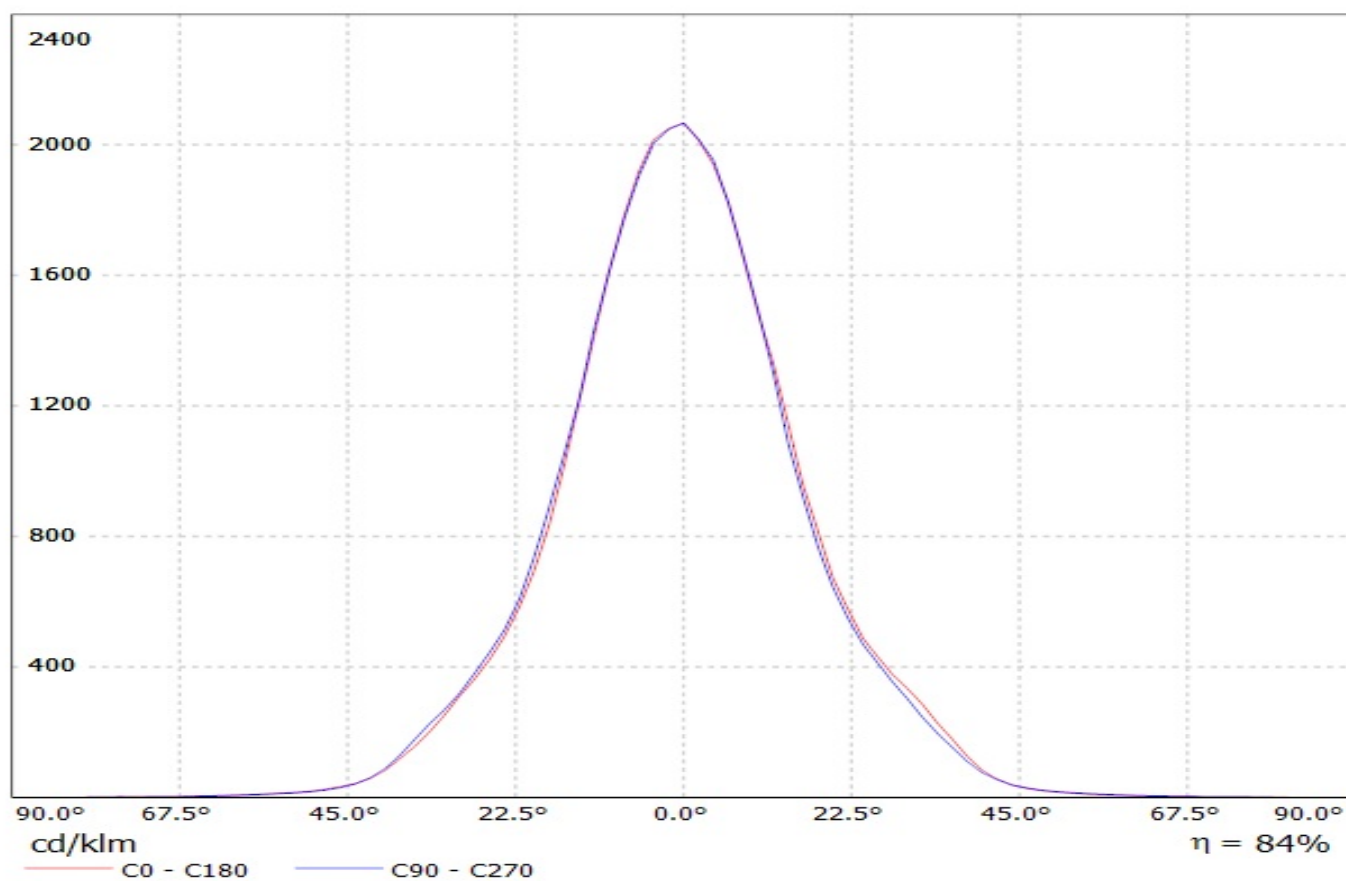
Luminaire: LEDil Oy CN12484\_MIRELLA-50-M-DL\_(Stark\_SLE\_G3\_LES10) Efficiency=82%  
Lamps: 1 x Tridonic Stark SLE G3 LES10 (STARK-SLE-PURE-G3-10-1000-830-CLA) 453lm @ 250mA CCT=3000K P=4.3W I=250mA



Luminaire: Ledil Oy CN12484\_MIRELLA-50-M-DL (Nichia NSCXL036A 434lm @ 100mA) Efficiency=85%  
Lamps: 1 x Nichia NSCXL036A 434lm @ 100mA (NSCLL036A) CCT=3000K P=3,4W I=100mA

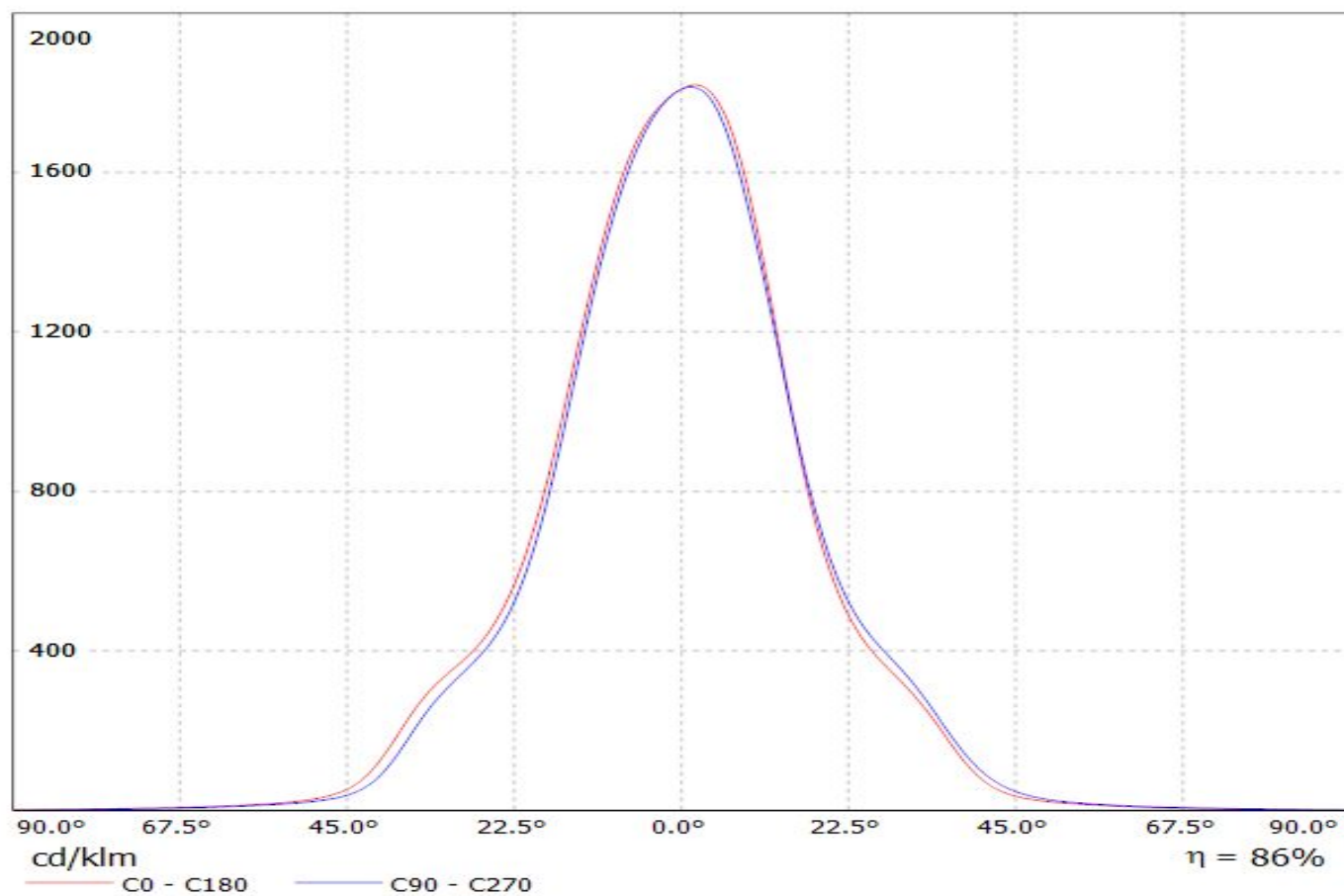


Luminaire: LEDil Oy CN12484\_MIRELLA-50-M-DL\_(ZC6) Efficiency=83%  
Lamps: 1 x Seoul ZC6 (SDW81F1C) 422lm @ 100mA CCT=3100K P=3.4W I=100mA





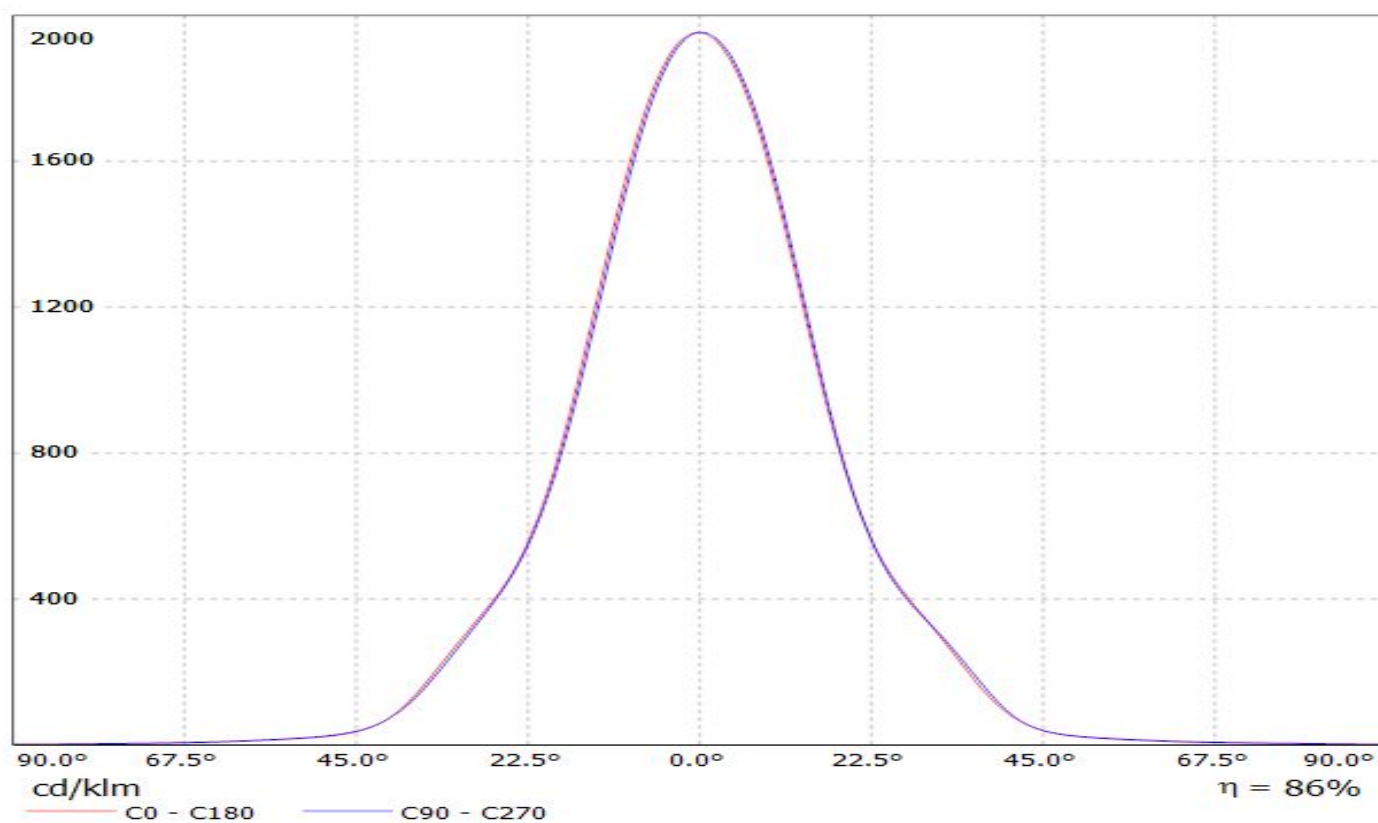
Luminaire: LEDiL Oy CN12484\_MIRELLA-50-M-DL\_(CREE\_XHP50\_WARM\_WHITE)  
Lamps: 1 x CREE\_XHP50\_WARM\_WHITE\_194.925lm@250mA\_P=1.39897W\_I=0.2499A



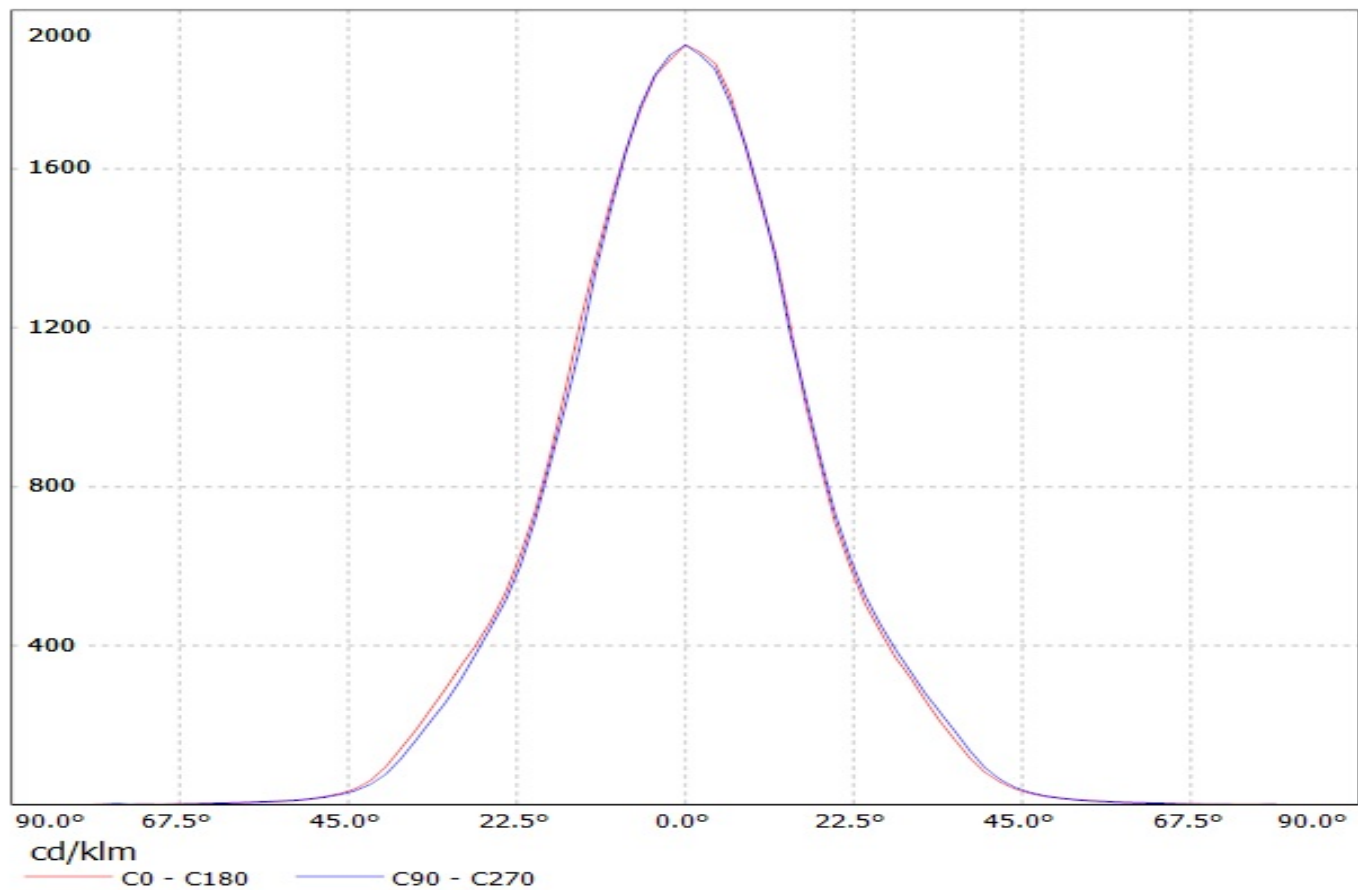
## **LEDiL Oy CN12484\_MIRELLA-50-M-DL\_(CXA1507) Eff.86.0% / LDC (Linear)**

Luminaire: LEDiL Oy CN12484\_MIRELLA-50-M-DL\_(CXA1507) Eff.86.0%

Lamps: 1 x CREE\_CXA1507 (CXA1507-30F-F2-N0A-00000) 238.378lm@50mA CCT=3000K P=1.8506W  
I=54.5mA

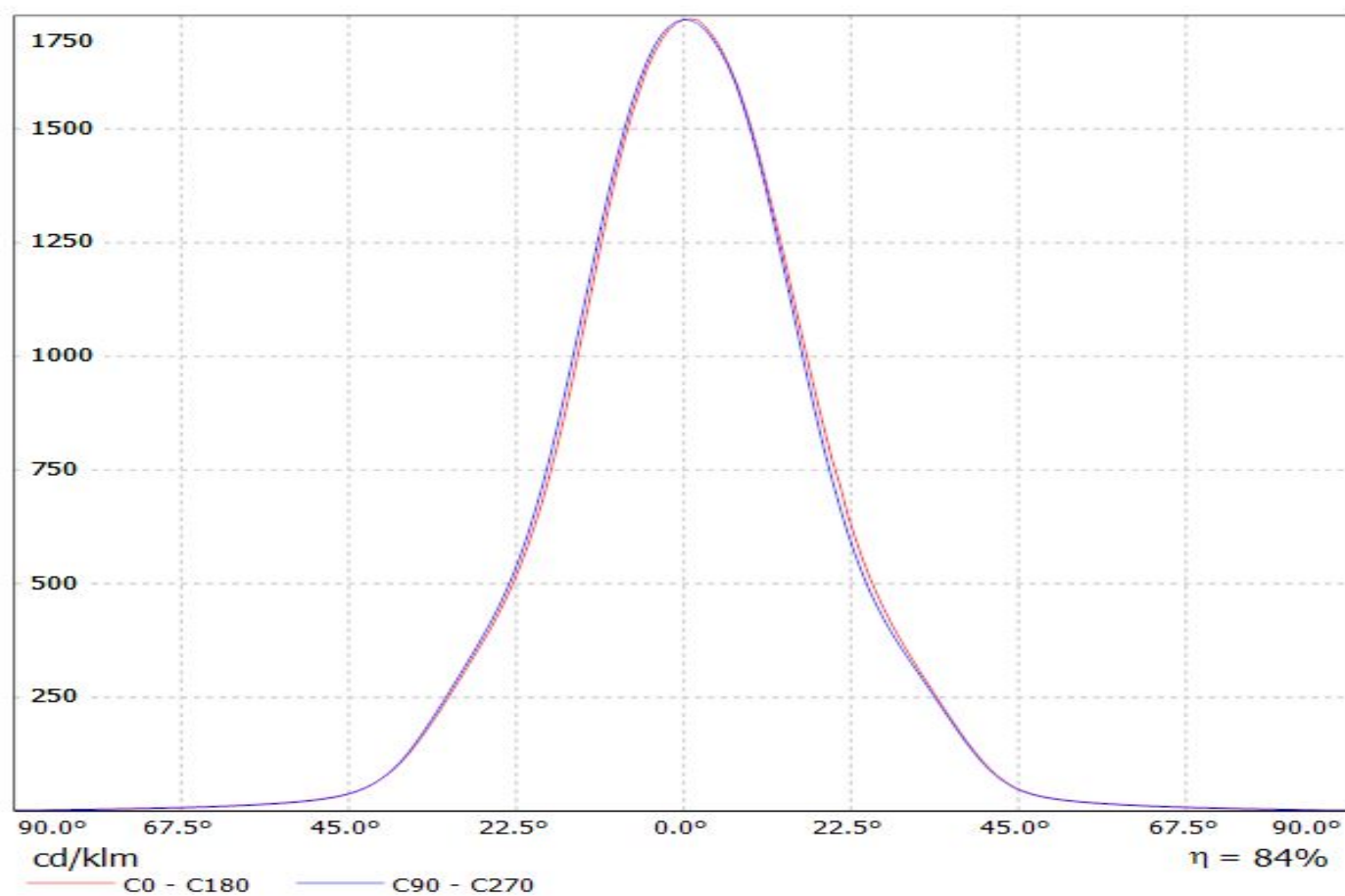


Luminaire: Ledil Oy CN12484\_MIRELLA-50-M-DL (NSBxL066A 930lm @ 250mA) Efficiency=84%  
Lamps: 1 x NSBxL066A 930lm @ 250mA (NSBLL066AE) CCT=3536K P=7,75W I=250mA

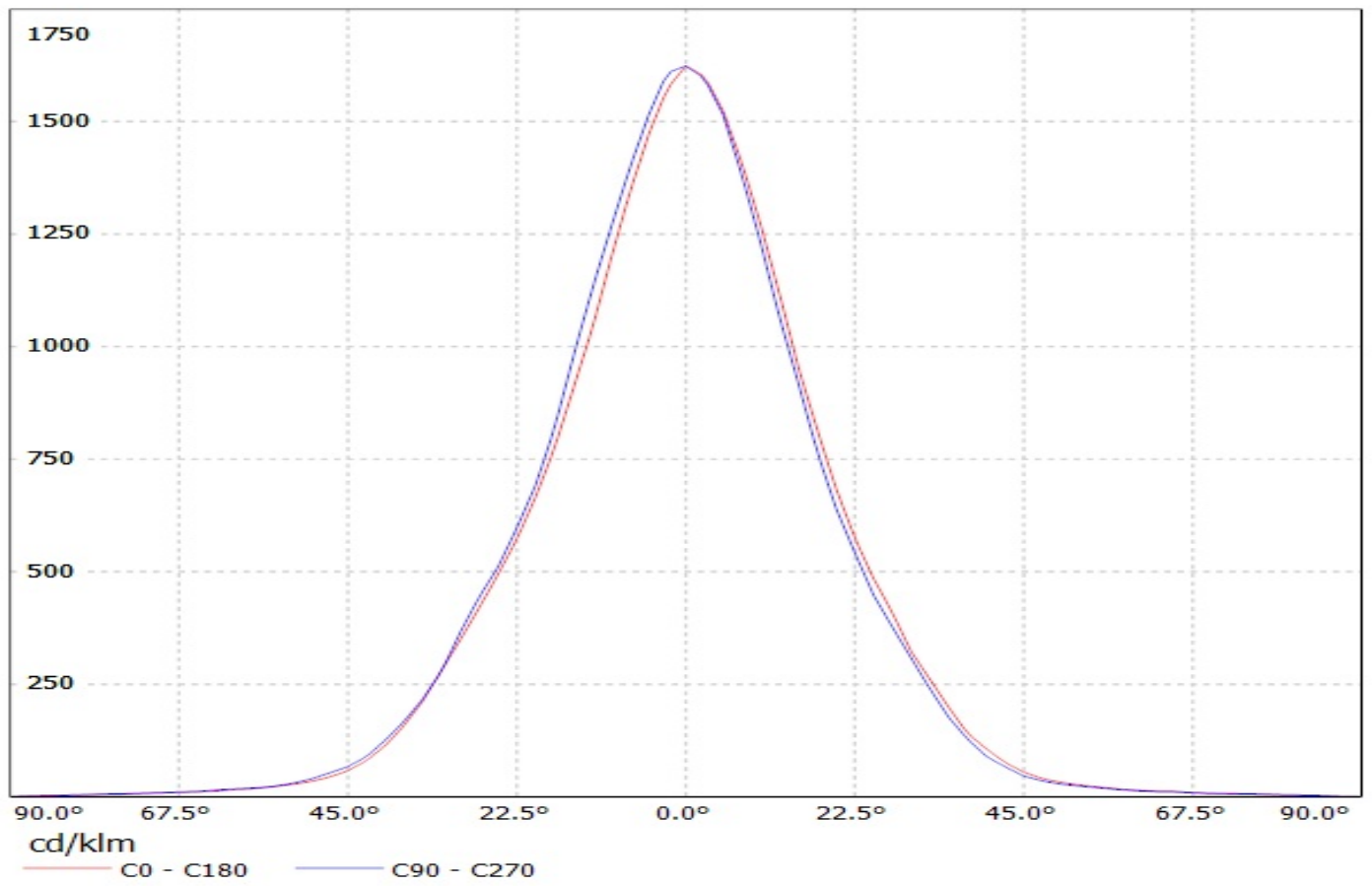


Luminaire: LEDiL Oy CN12484\_MIRELLA-50-M-DL\_(CXM-9)

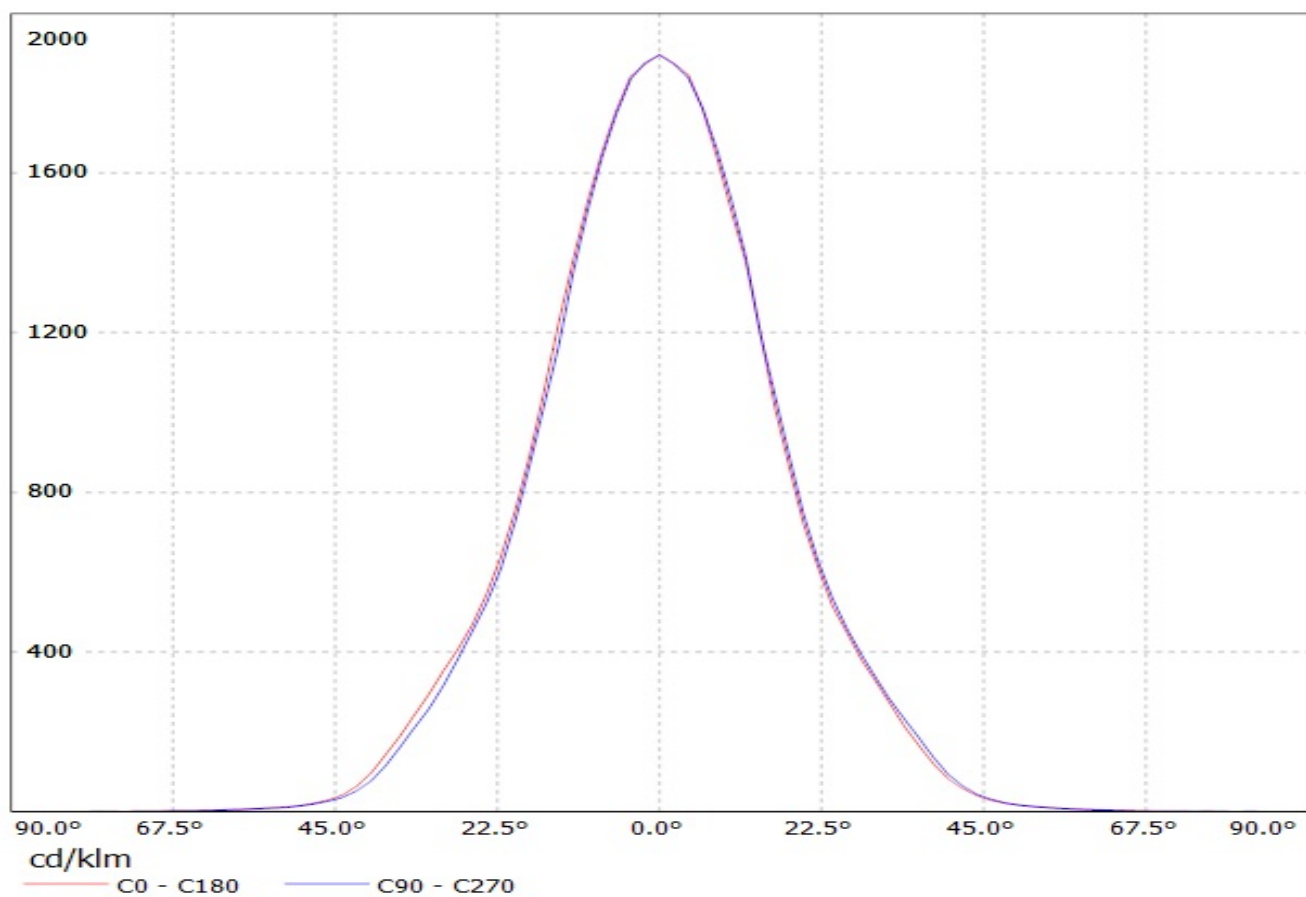
Lamps: 1 x Luminus\_XNOVA\_CXM-9\_(AA00)\_974.083lm@240mA\_P=8.27544W\_I=240mA



Luminaire: Ledil Oy CN12484\_MIRELLA-50-M-DL (Bridgelux LS 170lm @ 250mA) Efficiency=83%  
Lamps: 1 x Bridgelux LS 170lm @ 250mA

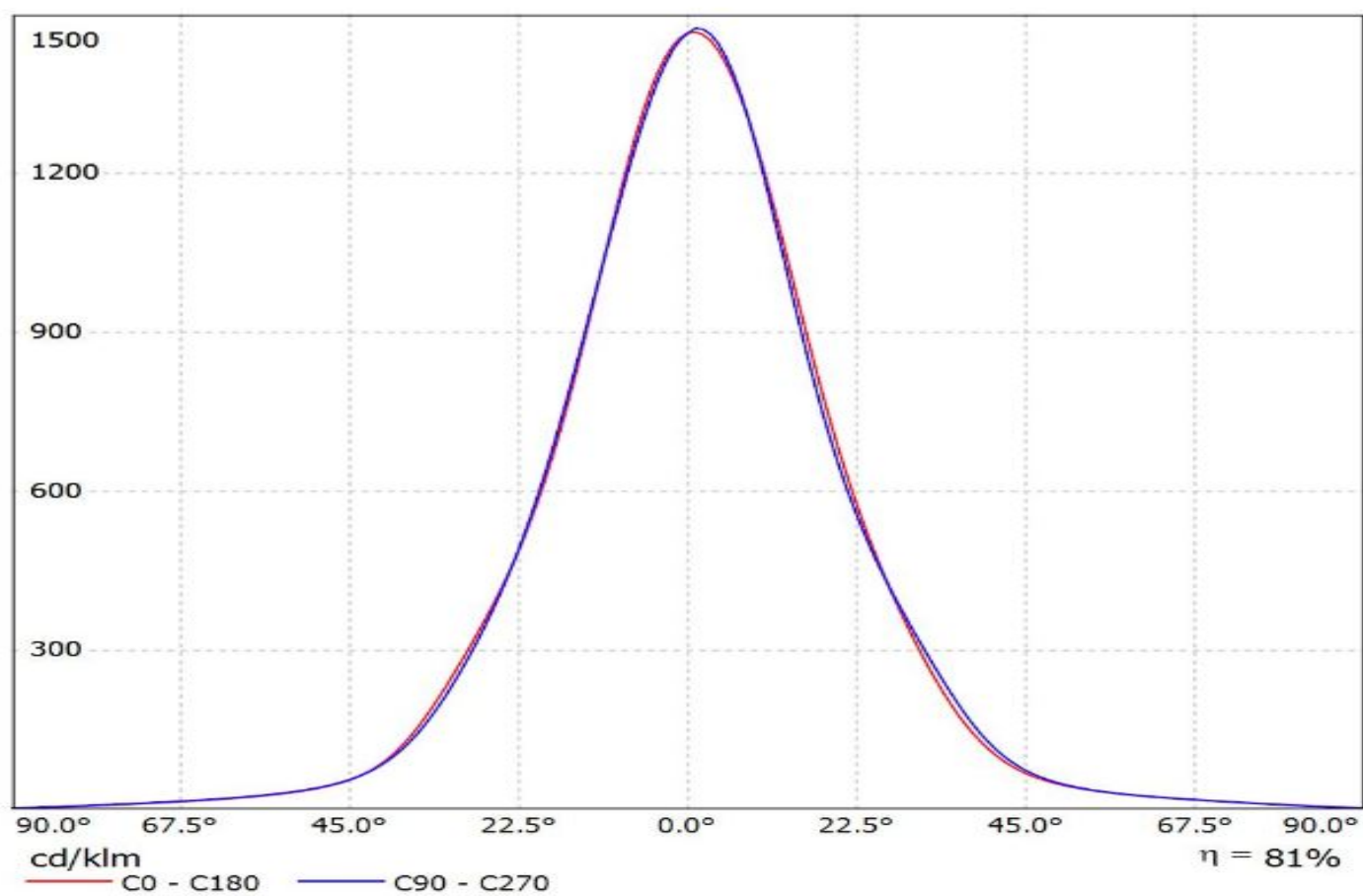


Luminaire: Ledil oy CN12484\_MIRELLA-50-M-DL\_(Luxeon\_CoB\_1203) Efficiency=85%  
Lamps: 1 x Luxeon Cob 1203 (LHC1-3080-1203) 824lm @ 250mA CCT=3000K P=8.7W I=250mA

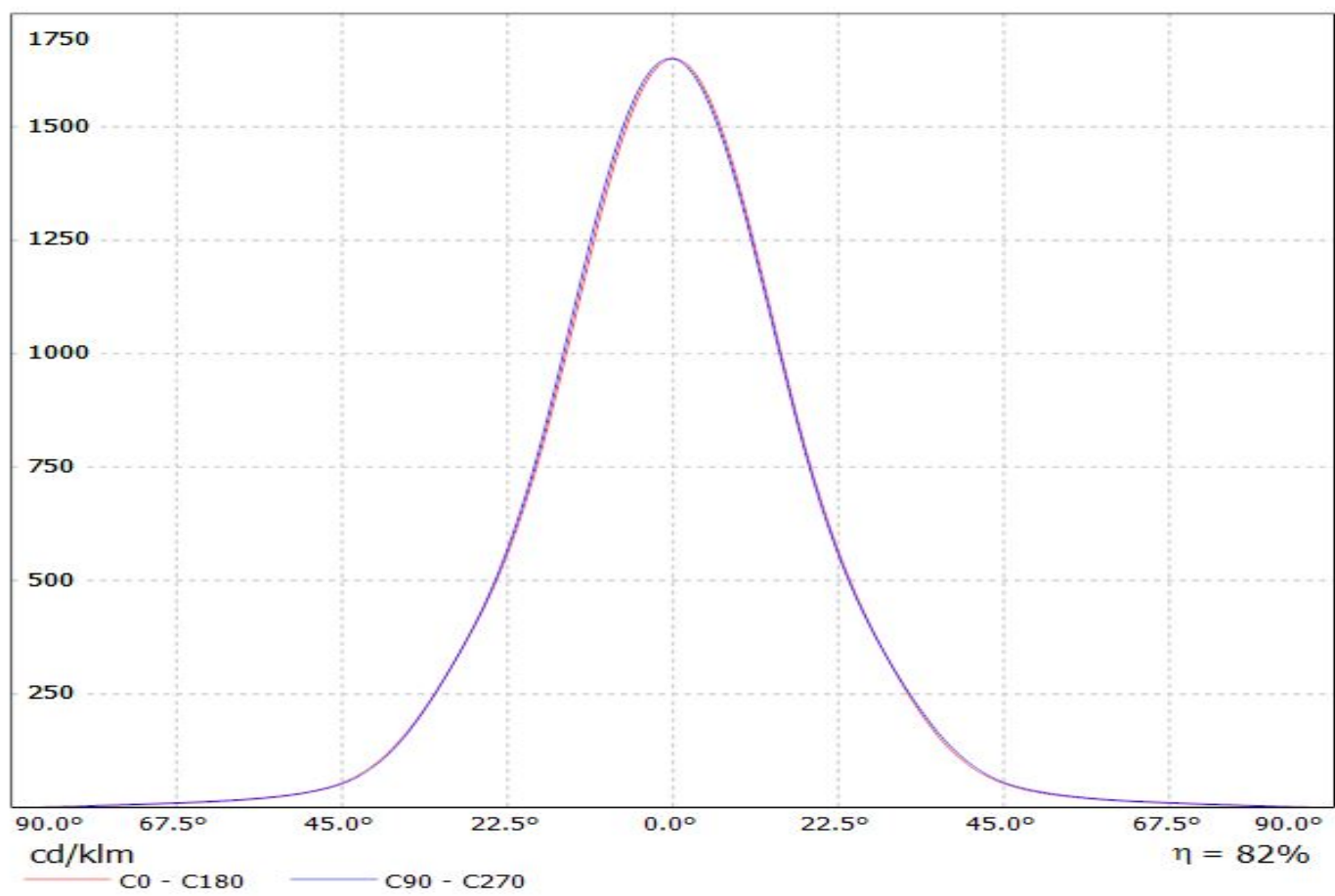


Luminaire: Ledil CN12484\_MIRELLA-50-M-DL\_(CLU710)

Lamps: 1 x CITIZEN\_CLU710\_(CLU710-1204B8-273M2G1)\_1212.66lm@250mA\_P=8.5W\_I=0.25A

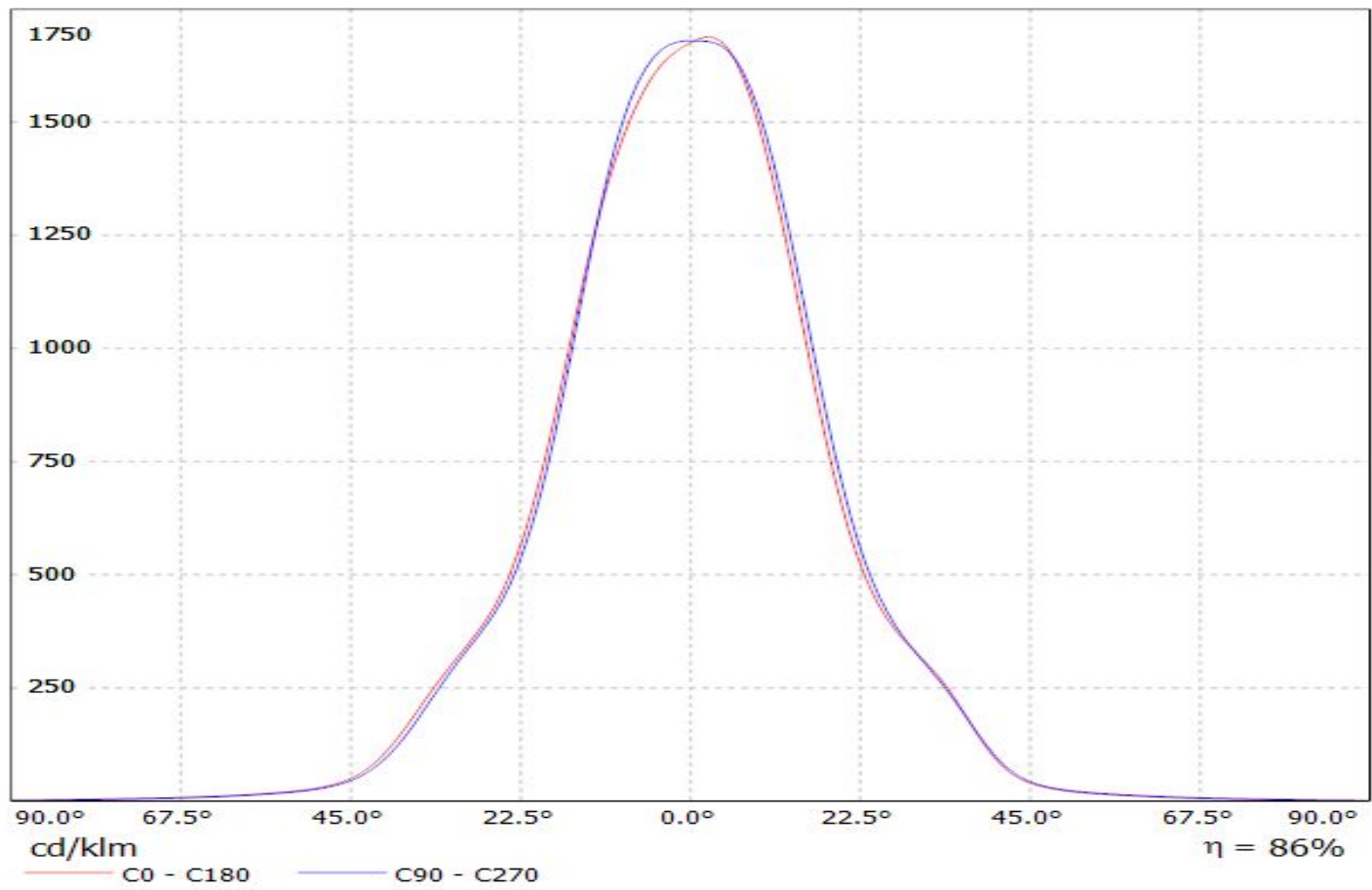


Luminaire: Ledil Oy  
Lamps: 1 x CN12484\_MIRELLA-50-M-DL\_(CLL028)

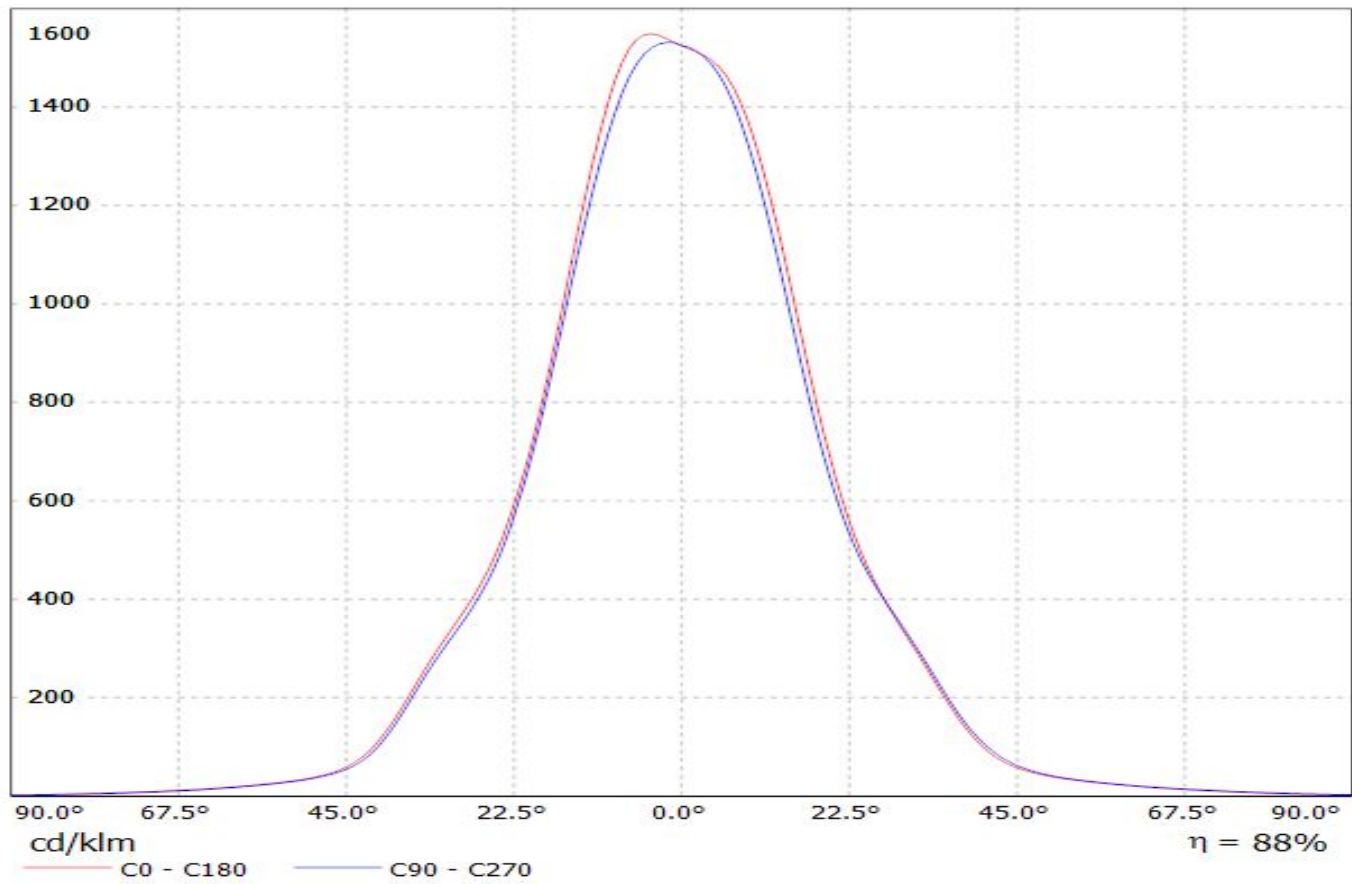




Luminaire: LEDiL Oy CN12484\_MIRELLA-50-M-DL\_(Cree\_XHP70)  
Lamps: 1 x Cree\_XHP70\_258.083lm@250mA\_P=1.38117W\_I=0.2499A



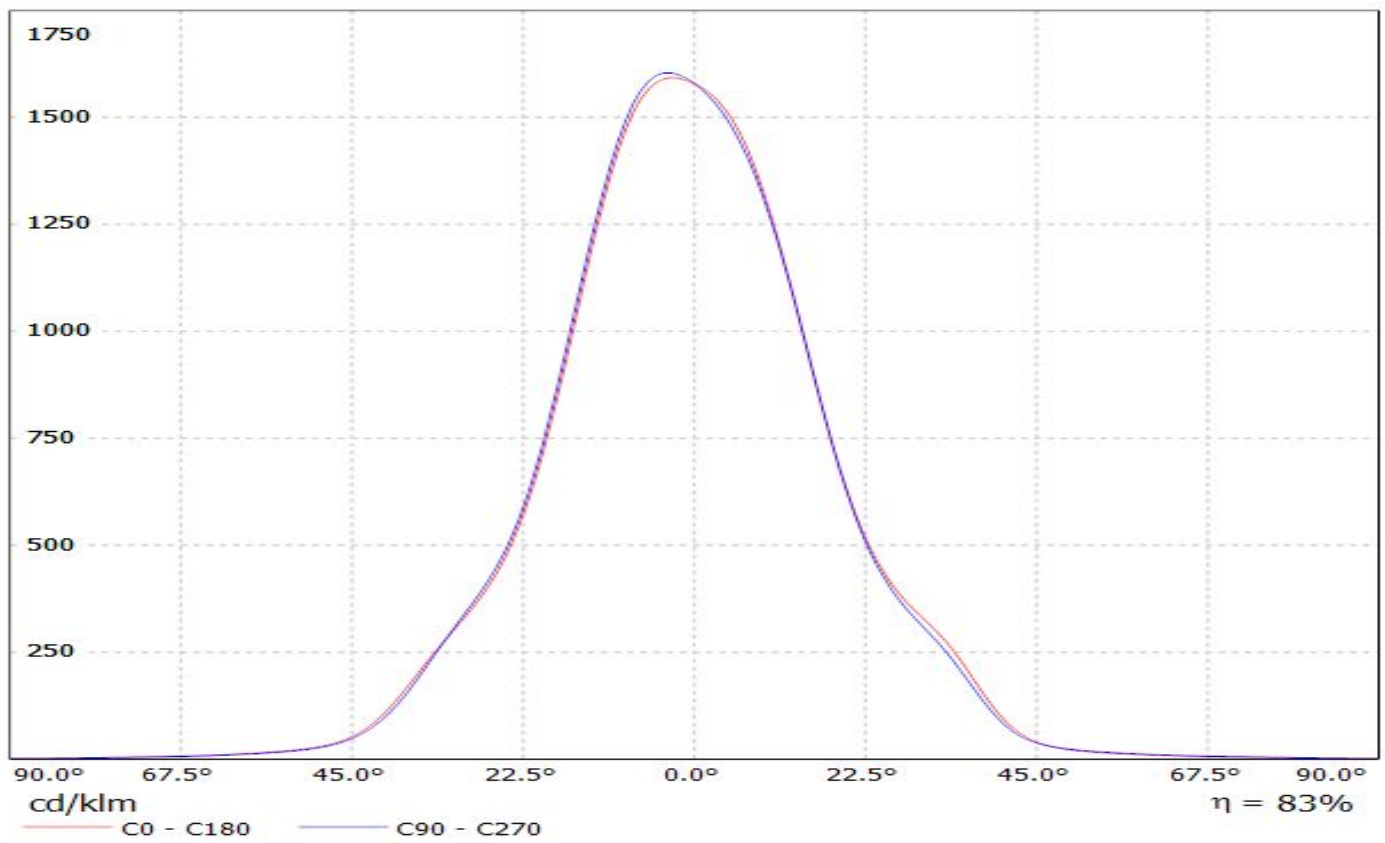
Luminaire: Ledil CN12484\_MIRELLA-50-M-DL\_(MHD-G)  
Lamps: 1 x Cree MHD-G\_528.649lm@100mA\_P=3.0W\_I=0.100A



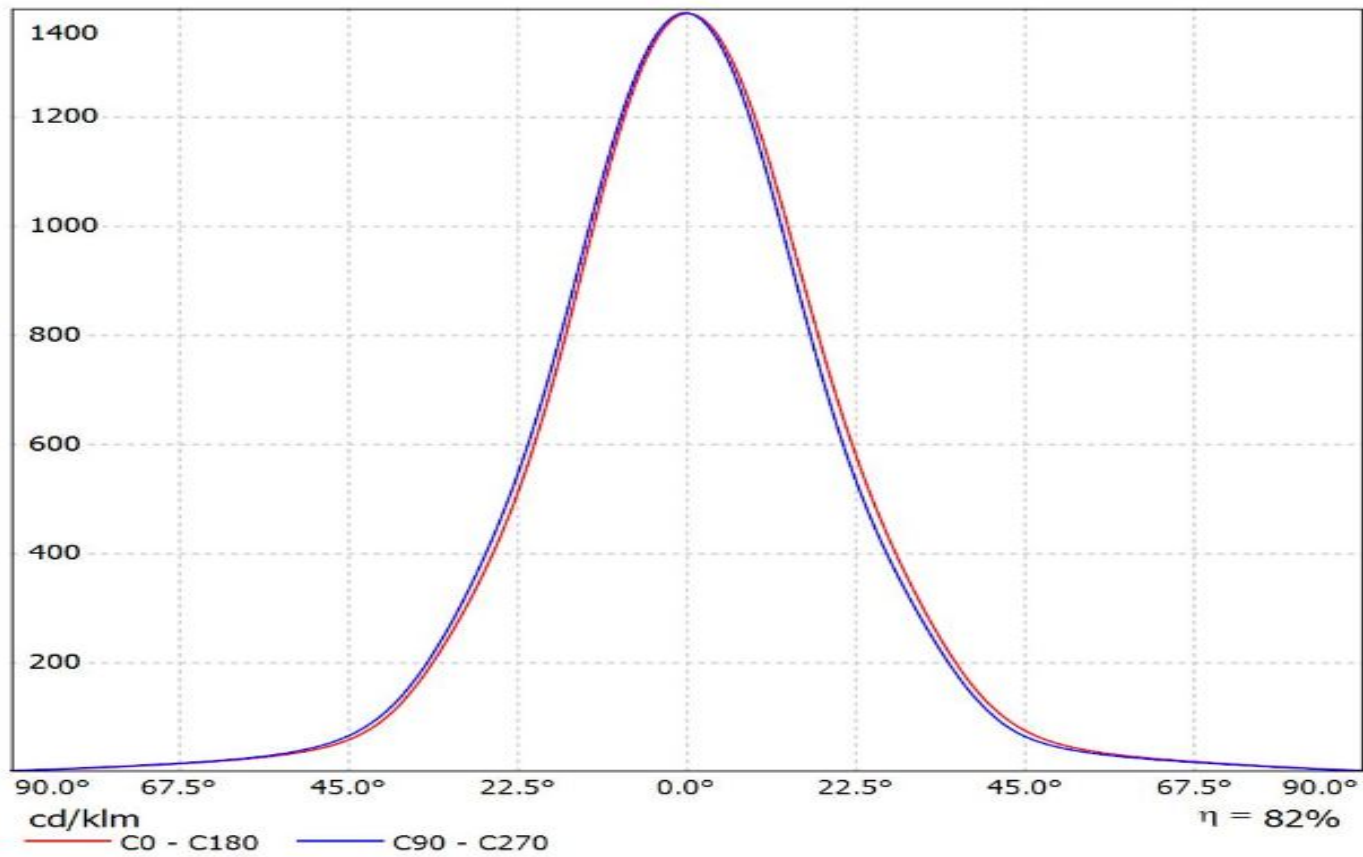
## LEDiL Oy CN12484\_MIRELLA-50-M-DL\_(MT-G2) Eff.83.1% / LDC (Linear)

Luminaire: LEDiL Oy CN12484\_MIRELLA-50-M-DL\_(MT-G2) Eff.83.1%

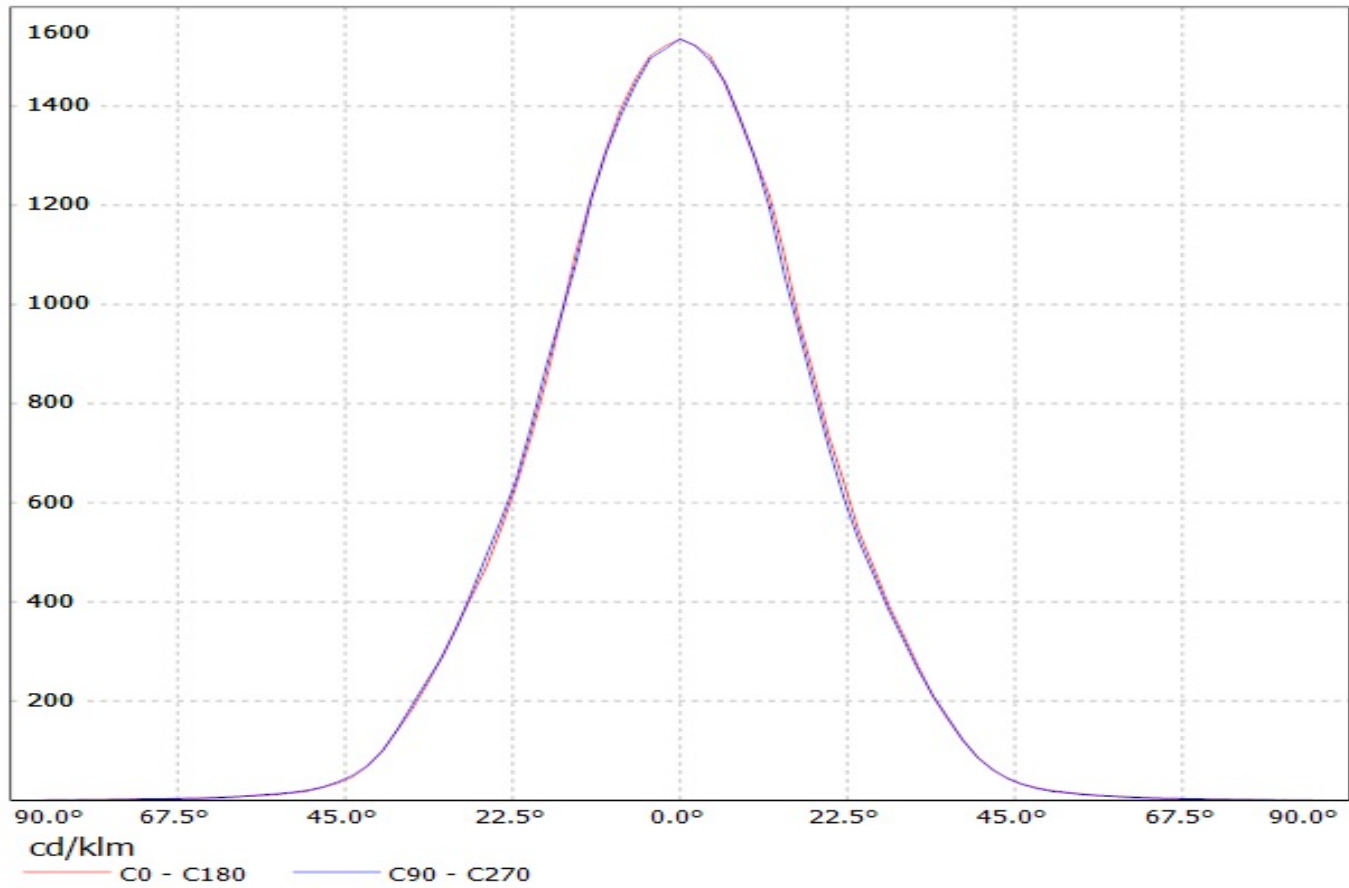
Lamps: 1 x MT-G2 (165.381lm@250mA)



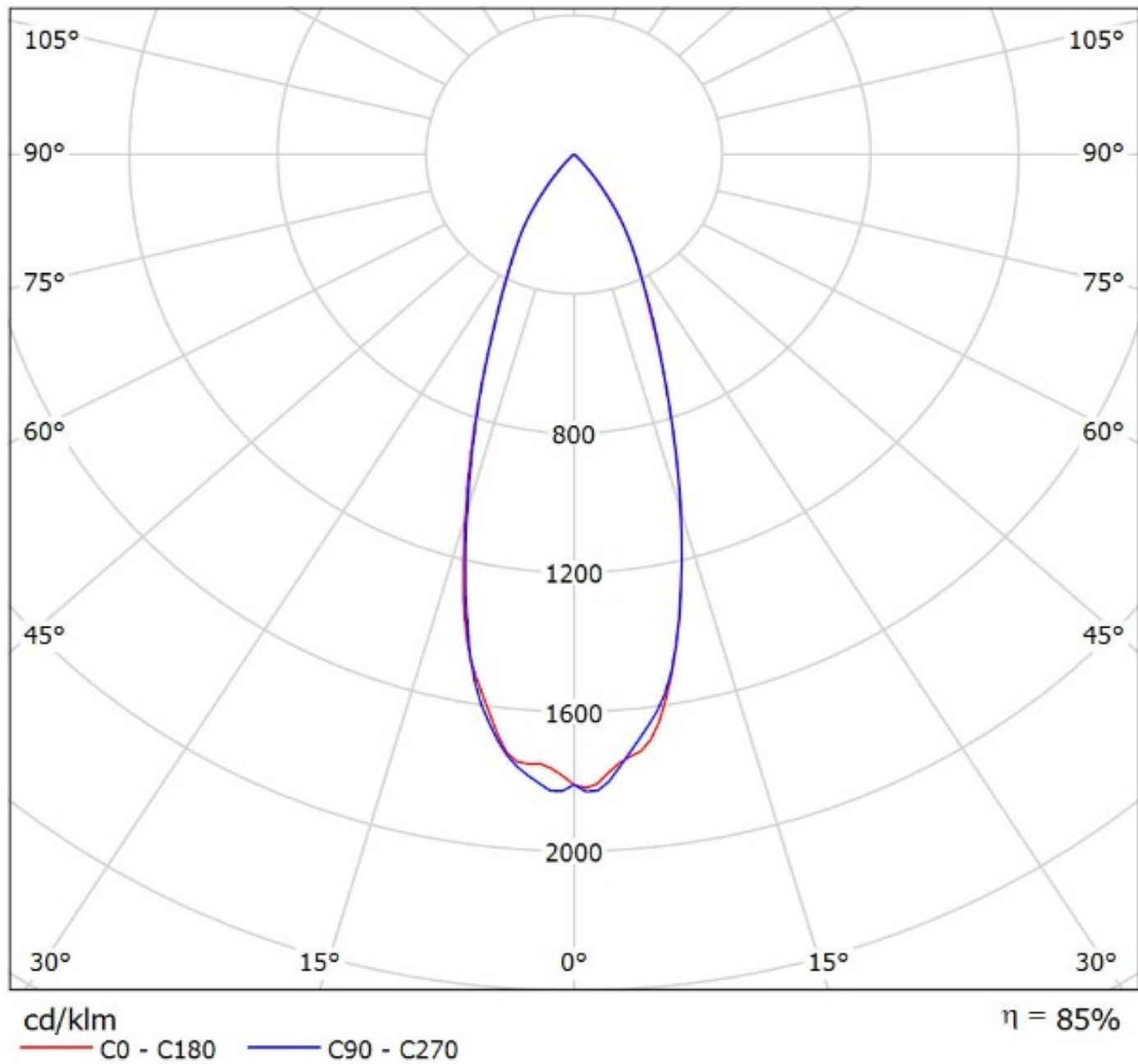
Luminaire: Ledil CN12484\_MIRELLA-50-M-DL\_(CLU720)  
Lamps: 1 x CITIZEN\_CLU720\_(CLU720-1206B8-273M2)  
\_1298.17lm@250mA\_CCT=2700K\_P=8.3W\_I=0.25A



Luminaire: LEDil Oy CN12484\_MIRELLA-50-M-DL\_(Soleriq\_S13) Efficiency=81%  
Lamps: 1 x Osram Soleriq S13 (GW KAGHB1.EM) 832lm @ 250mA CCT=3100K P=7.4W I=250mA

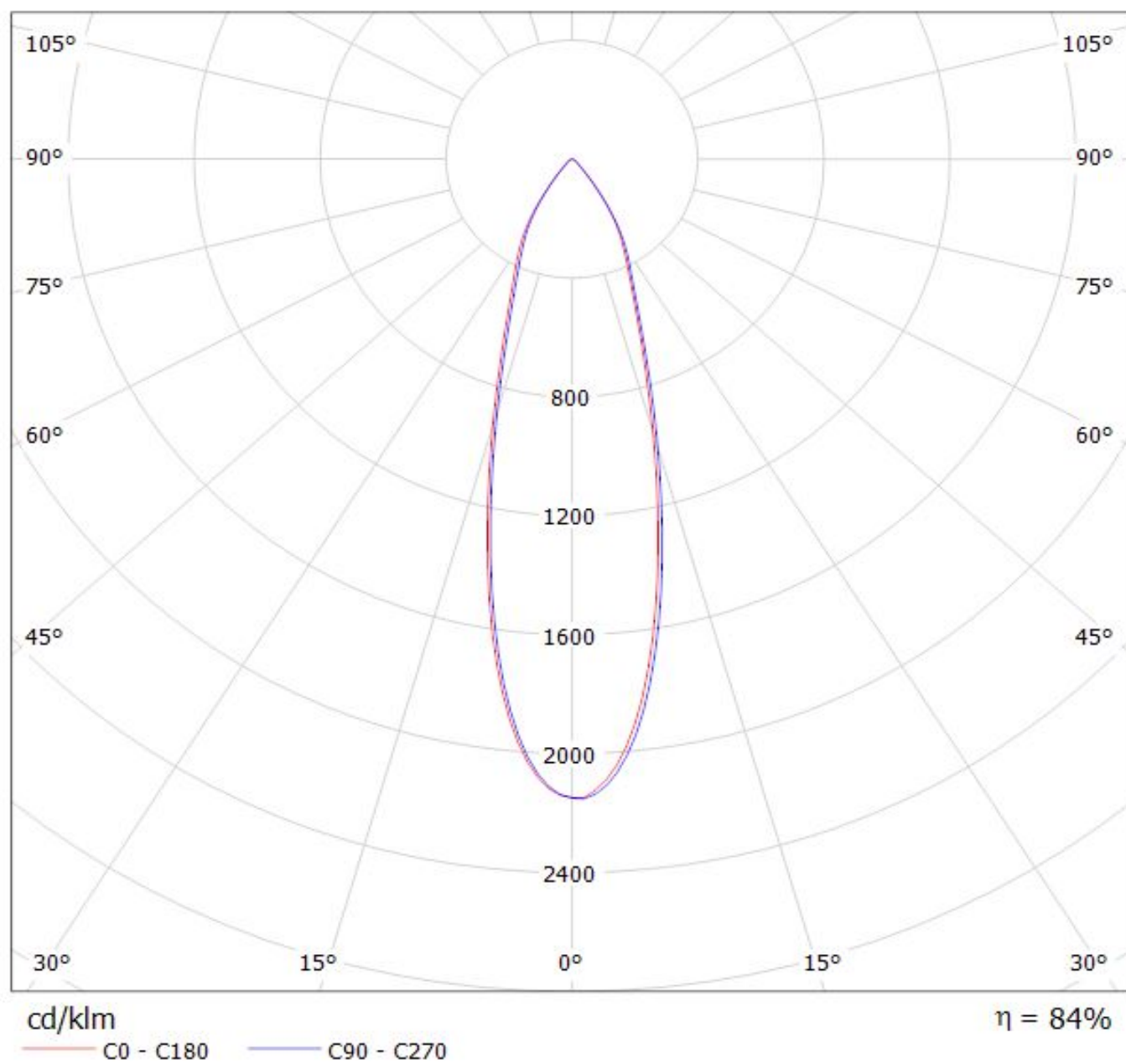


Luminaire: Ledil Oy CN12484\_MIRELLA-50-M-DL\_(Soleriq\_S9)\_SIMULATED  
Lamps: 1 x Osram Soleriq S9 (GW KAJFB3.EM)



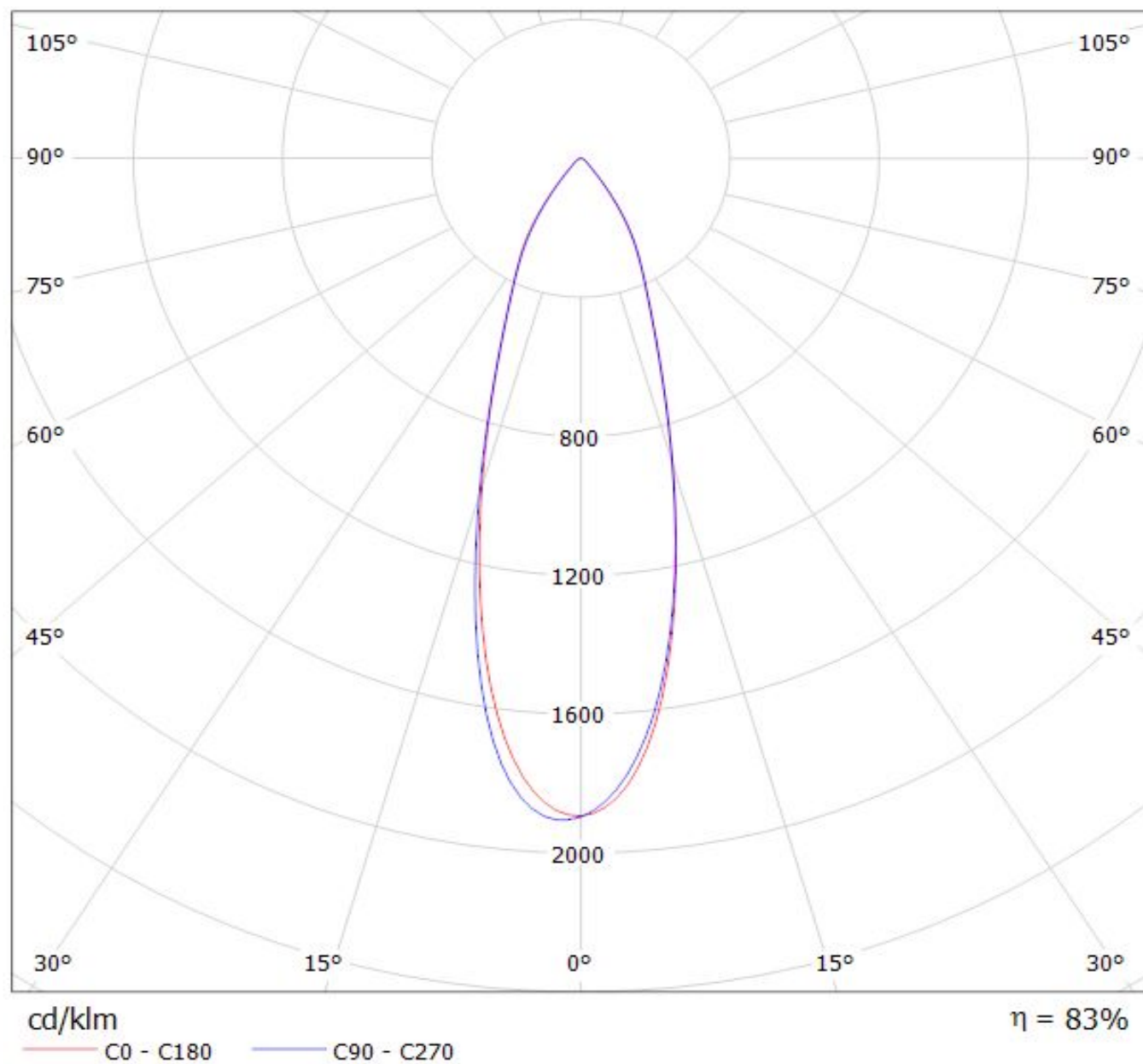
Luminaire: LEDiL Oy CN12484\_MIRELLA-50-M-DL\_(CLU700)

Lamps: 1 x CITIZEN\_CLU700\_(CLU700-100-2B8-273M2G1)\_380.605lm@250mA\_P=2.8002W\_I=0.1001A





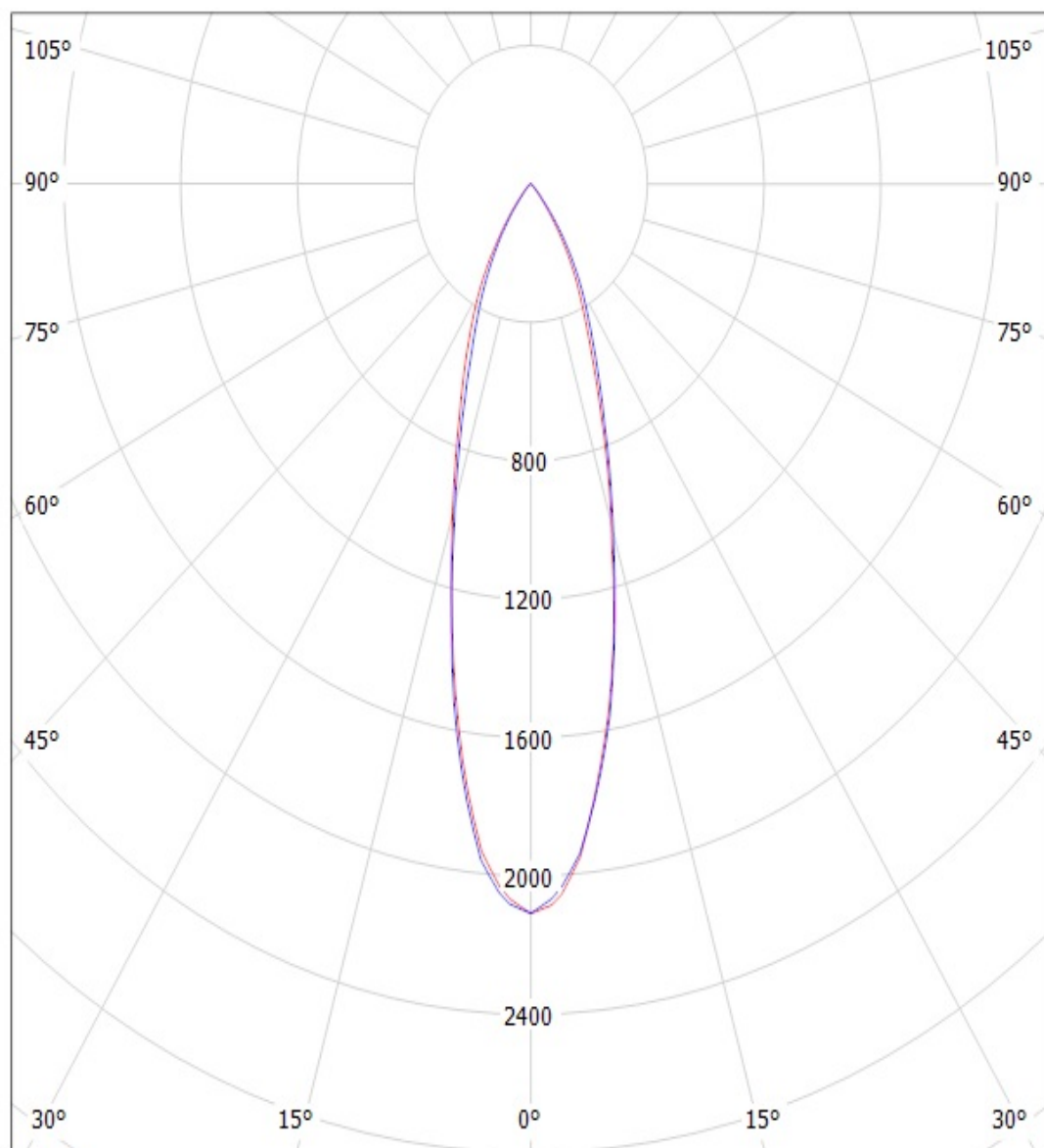
Luminaire: LEDiL Oy CN12484\_MIRELLA-50-M-DL\_(Mini\_Zenigata) Eff.83.3%  
Lamps: 1 x Mini\_Zenigata GW6BM (803.772lm@250mA)





Luminaire: LEDil Oy CN12484\_MIRELLA-50-M-DL\_(Stark\_SLE\_G3\_LES10) Efficiency=82%

Lamps: 1 x Tridonic Stark SLE G3 LES10 (STARK-SLE-PURE-G3-10-1000-830-CLA) 453lm @ 250mA CCT=3000K P=4.3W I=250mA

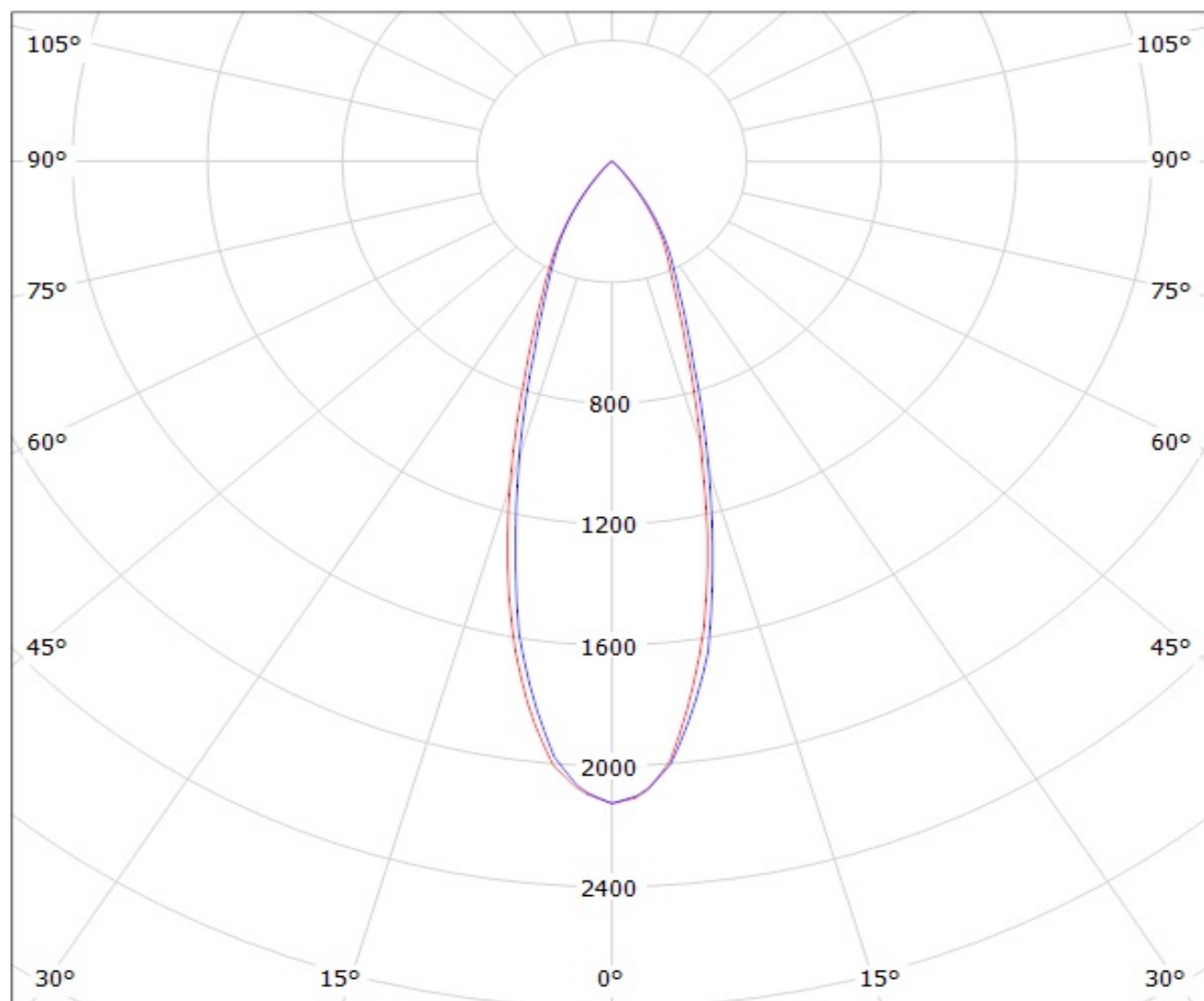


cd/klm

C0 - C180

C90 - C270

Luminaire: Ledil Oy CN12484\_MIRELLA-50-M-DL (Nichia NSCxl036A 434lm @ 100mA) Efficiency=85%  
Lamps: 1 x Nichia NSCxl036A 434lm @ 100mA (NSCLL036A) CCT=3000K P=3,4W I=100mA

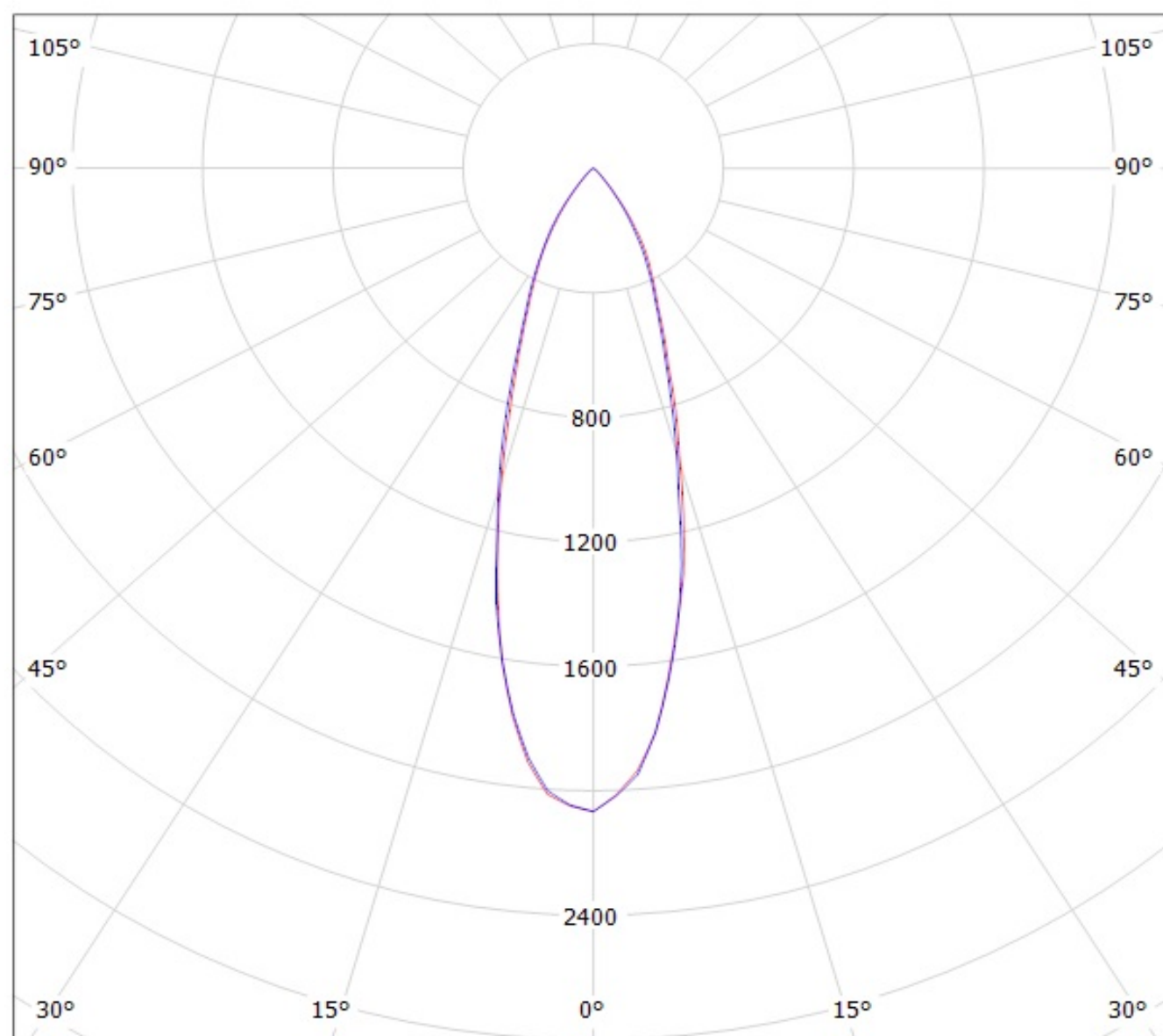


cd/klm

— C0 - C180

— C90 - C270

Luminaire: LEDil Oy CN12484\_MIRELLA-50-M-DL\_(ZC6) Efficiency=83%  
Lamps: 1 x Seoul ZC6 (SDW81F1C) 422lm @ 100mA CCT=3100K P=3.4W I=100mA

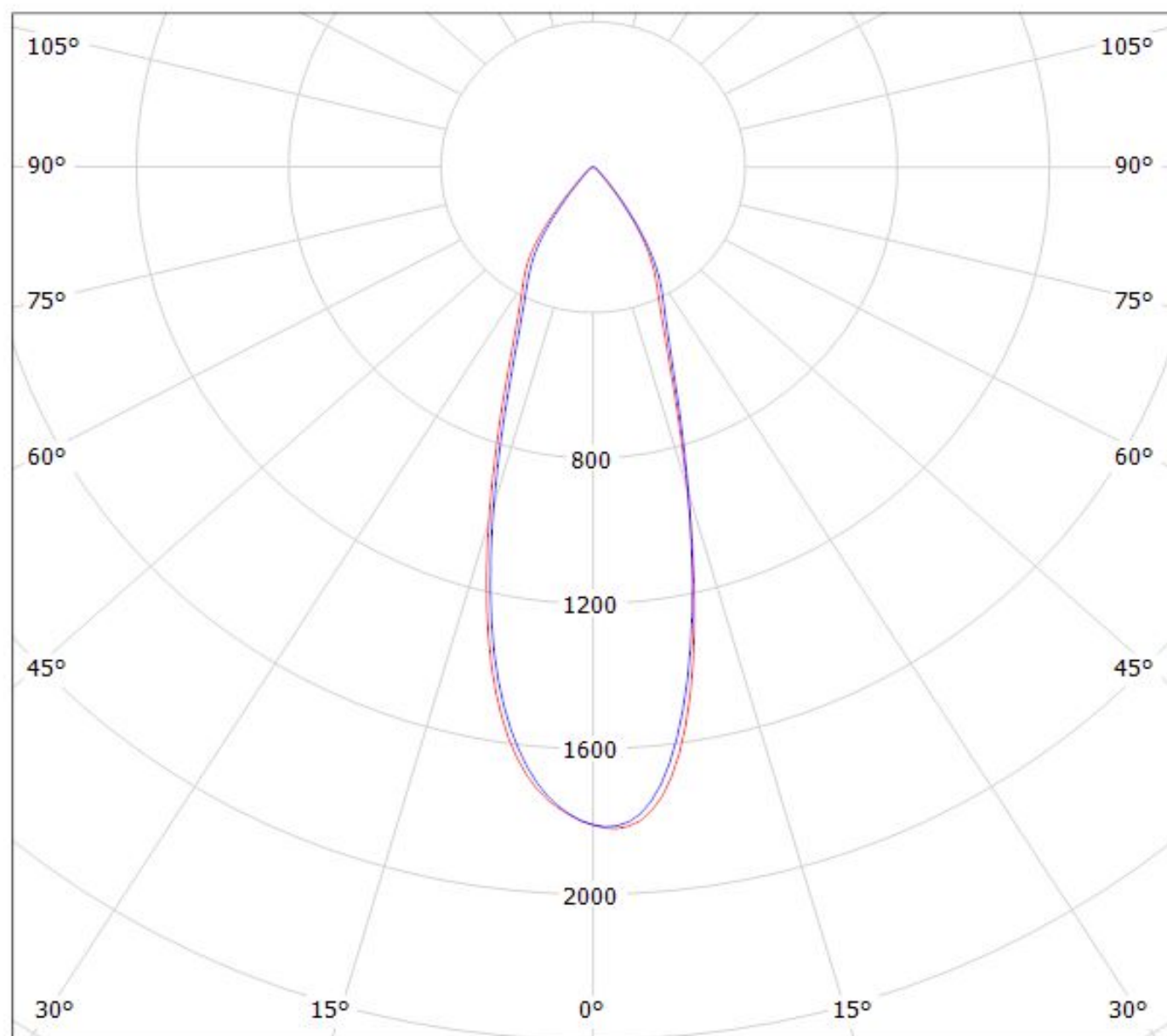


cd/klm

— C0 - C180

— C90 - C270

Luminaire: LEDiL Oy CN12484\_MIRELLA-50-M-DL\_(CREE\_XHP50\_WARM\_WHITE)  
Lamps: 1 x CREE\_XHP50\_WARM\_WHITE\_194.925lm@250mA\_P=1.39897W\_I=0.2499A



cd/klm

$\eta = 86\%$

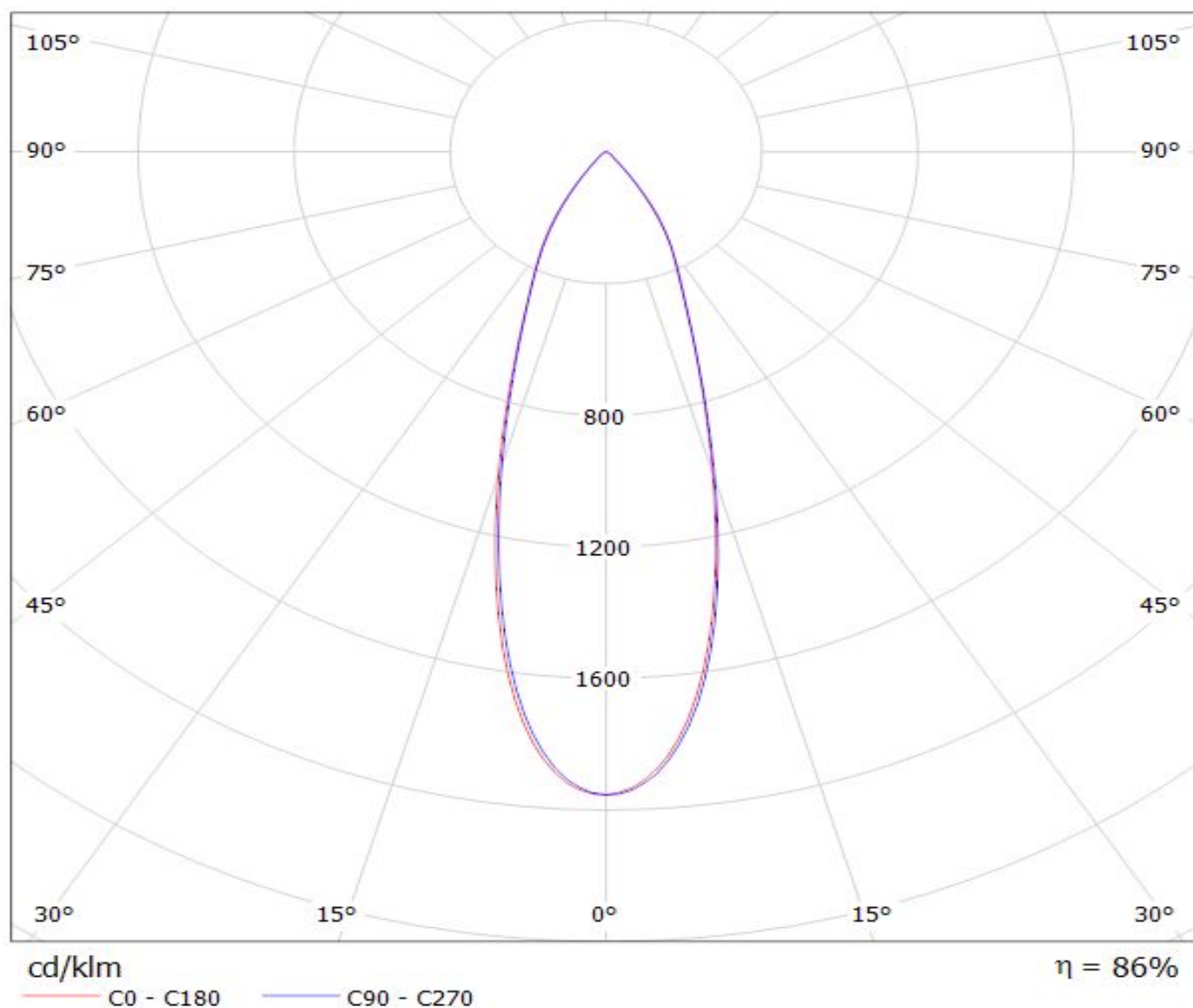
— C0 - C180

— C90 - C270

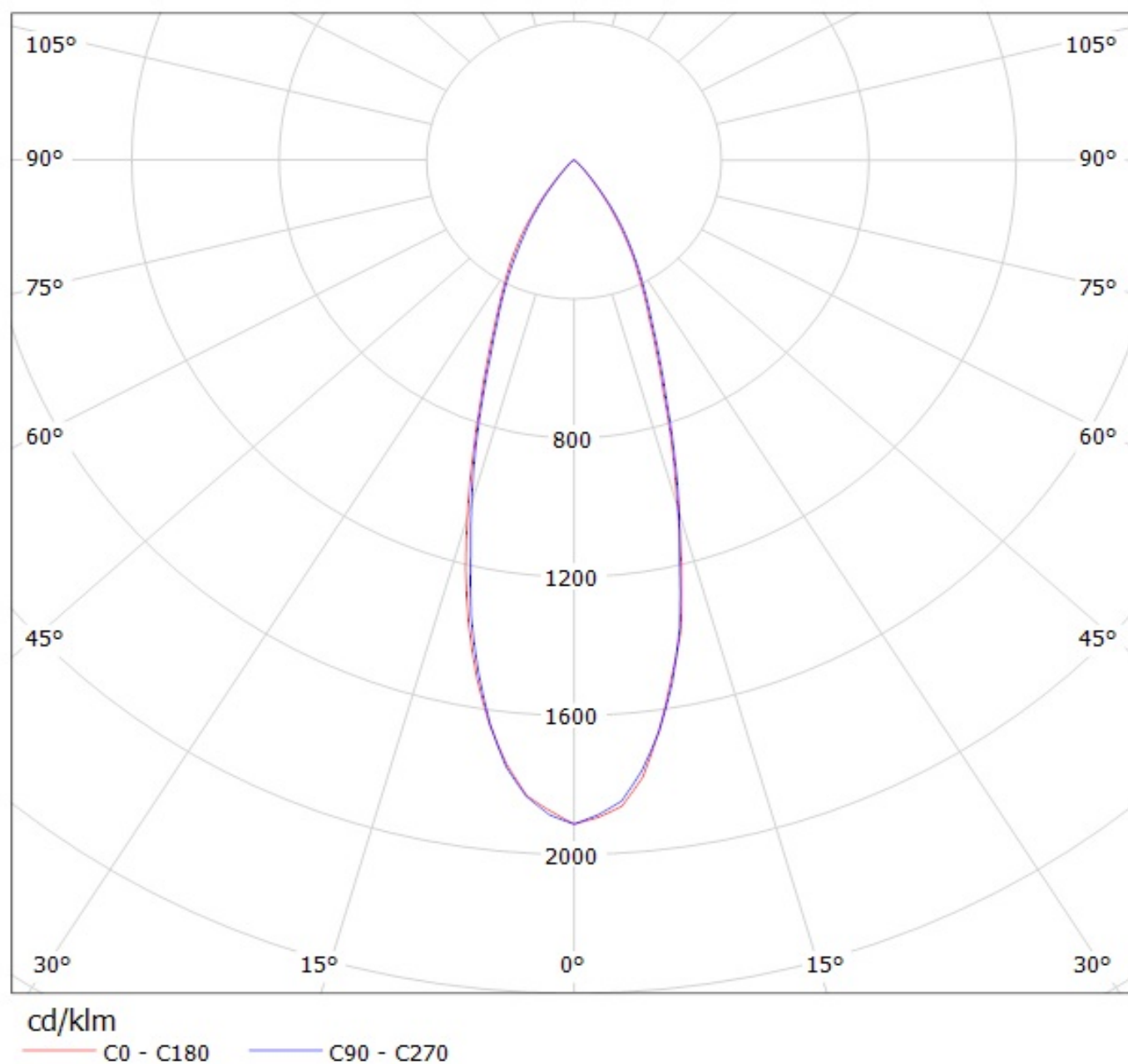
## LEDiL Oy CN12484\_MIRELLA-50-M-DL\_(CXA1507) Eff.86.0% / LDC (Polar)

Luminaire: LEDiL Oy CN12484\_MIRELLA-50-M-DL\_(CXA1507) Eff.86.0%

Lamps: 1 x CREE\_CXA1507 (CXA1507-30F-F2-N0A-00000) 238.378lm@50mA CCT=3000K P=1.8506W  
I=54.5mA



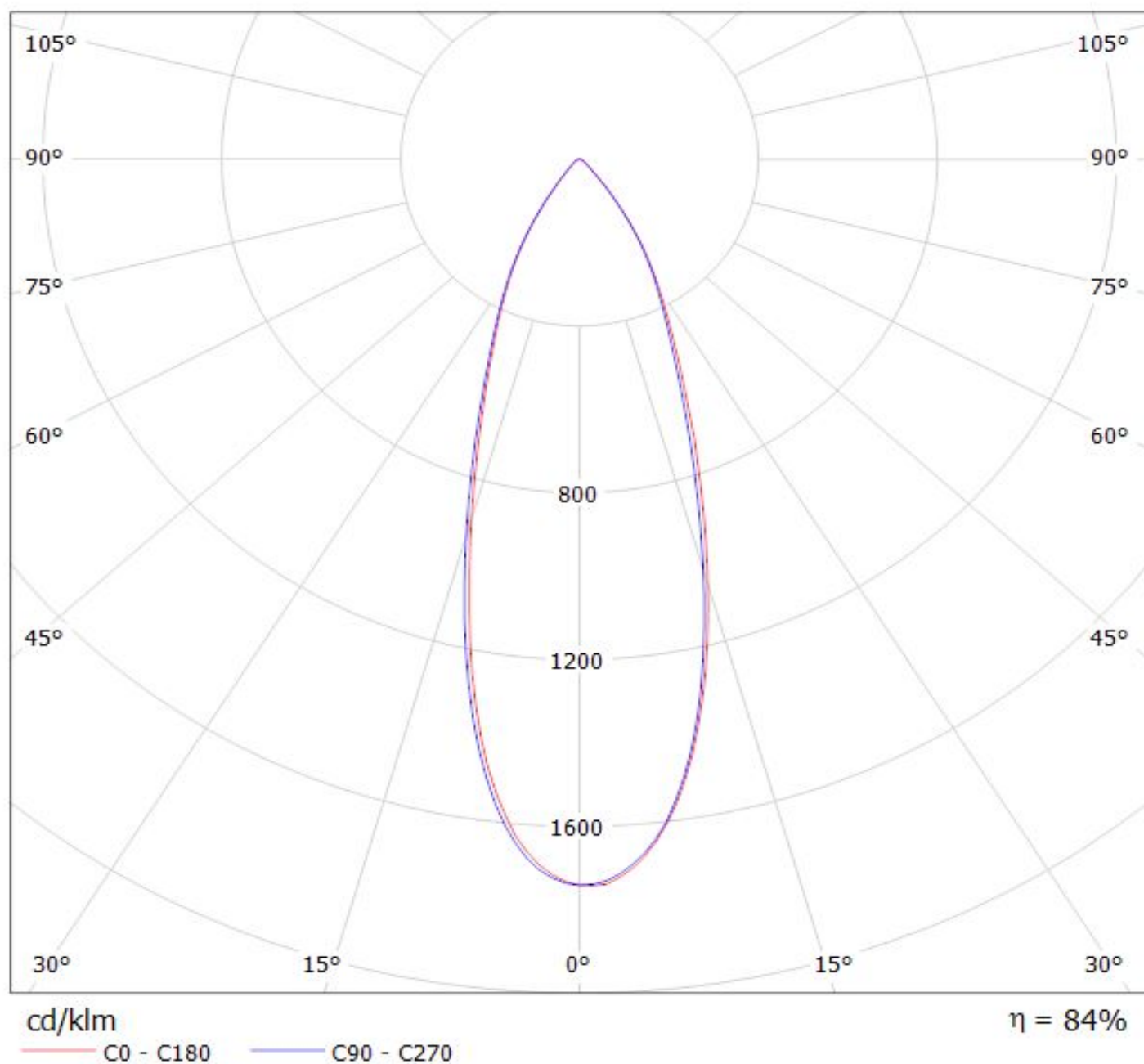
Luminaire: Ledil Oy CN12484\_MIRELLA-50-M-DL (NSBxL066A 930lm @ 250mA) Efficiency=84%  
Lamps: 1 x NSBxL066A 930lm @ 250mA (NSBLL066AE) CCT=3536K P=7,75W I=250mA



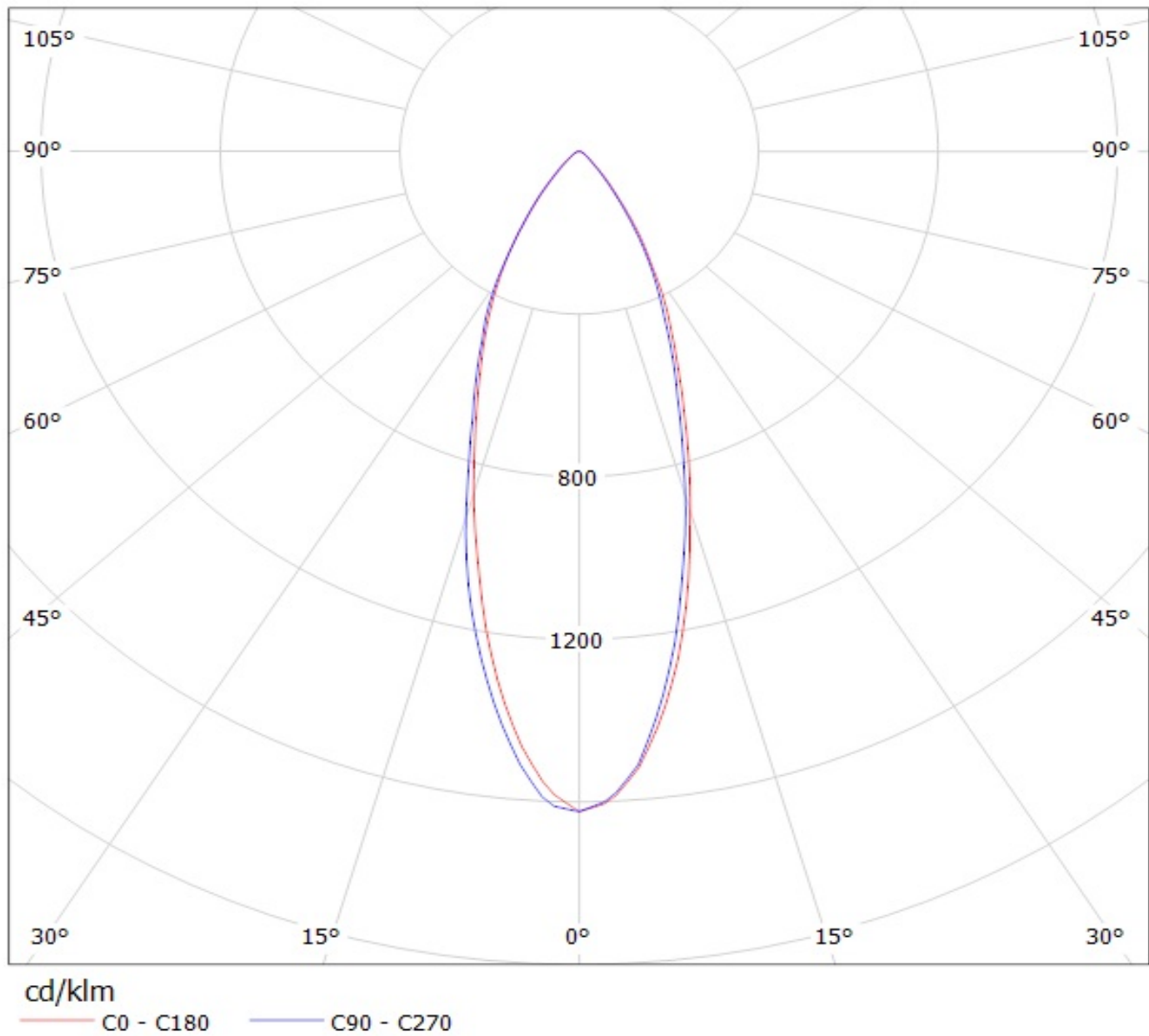


Luminaire: LEDiL Oy CN12484\_MIRELLA-50-M-DL\_(CXM-9)

Lamps: 1 x Luminus\_XNOVA\_CXM-9\_(AA00)\_974.083lm@240mA\_P=8.27544W\_I=240mA

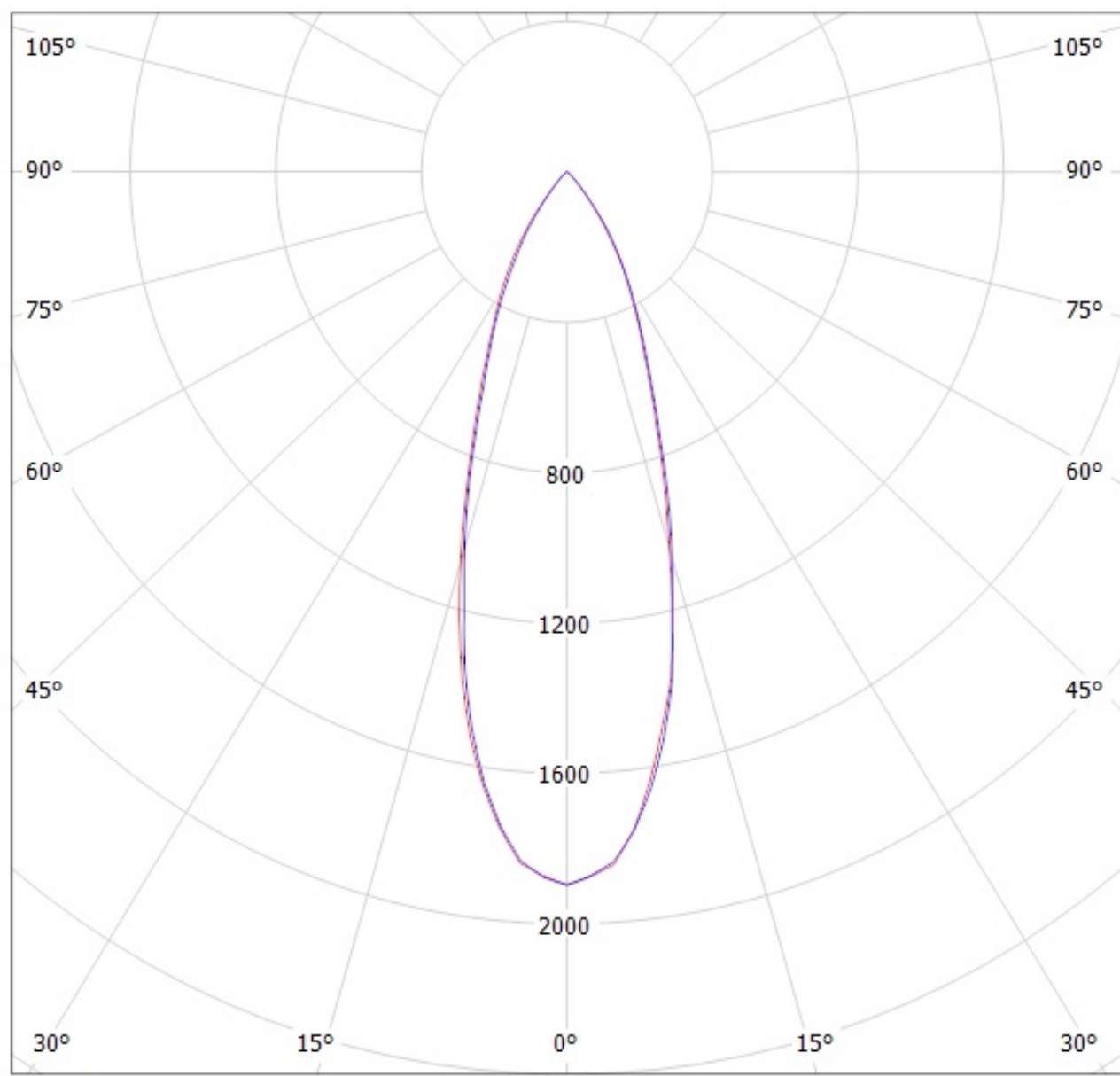


Luminaire: Ledil Oy CN12484\_MIRELLA-50-M-DL (Bridgelux LS 170lm @ 250mA) Efficiency=83%  
Lamps: 1 x Bridgelux LS 170lm @ 250mA





Luminaire: Ledil oy CN12484\_MIRELLA-50-M-DL\_(Luxeon\_CoB\_1203) Efficiency=85%  
Lamps: 1 x Luxeon Cob 1203 (LHC1-3080-1203) 824lm @ 250mA CCT=3000K P=8.7W I=250mA

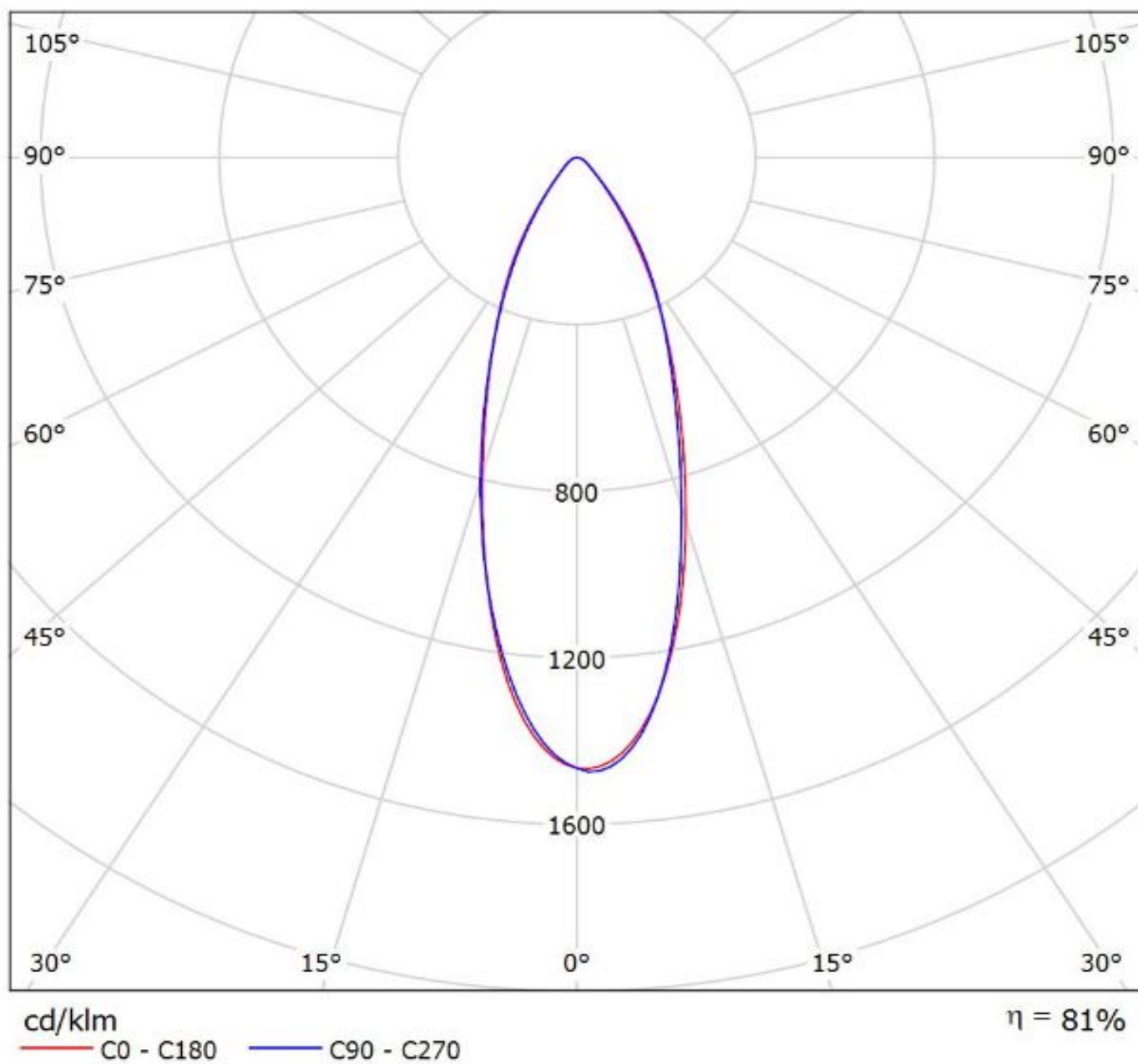


cd/klm

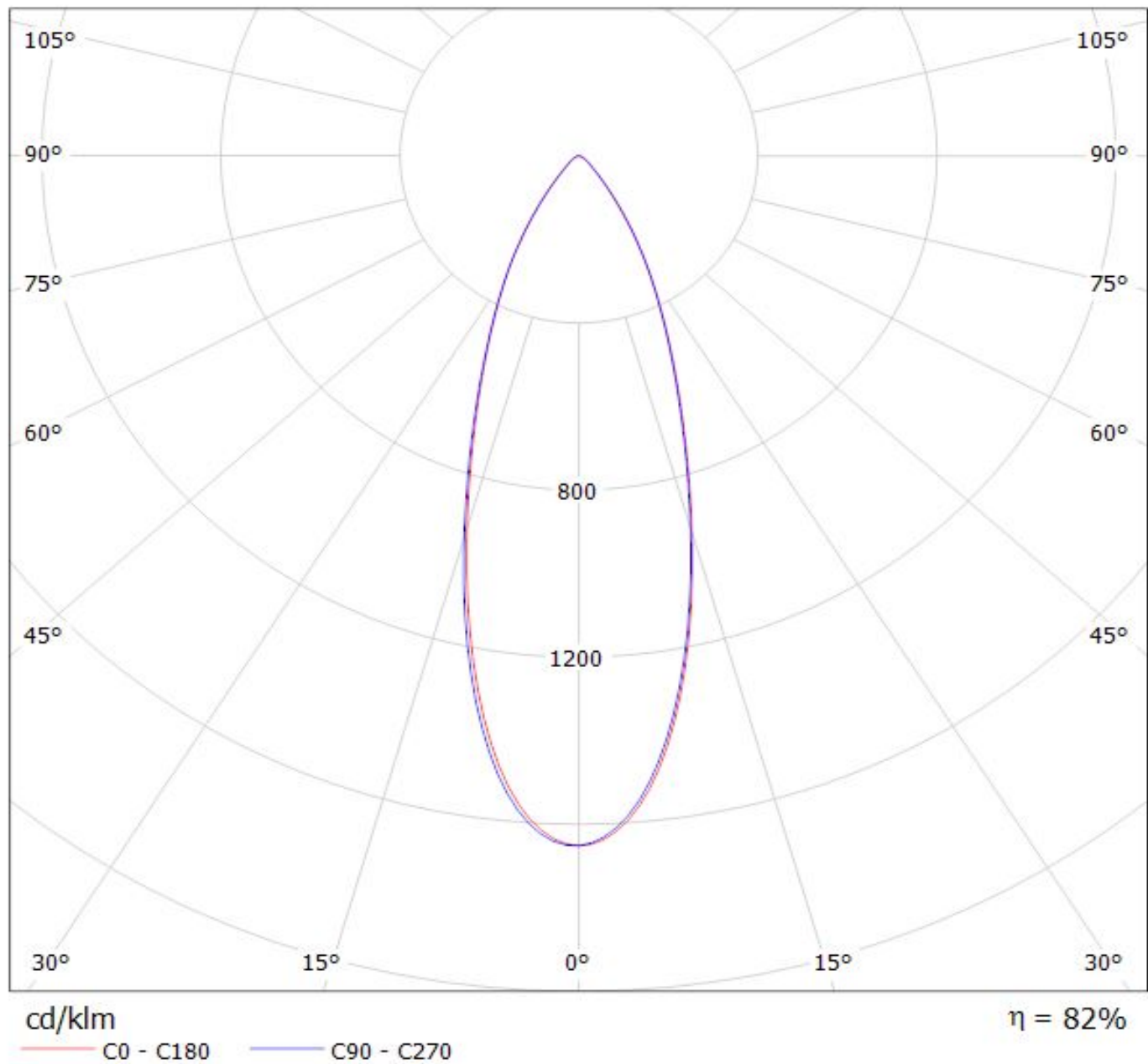
— C0 - C180 — C90 - C270

Luminaire: Ledil CN12484\_MIRELLA-50-M-DL\_(CLU710)

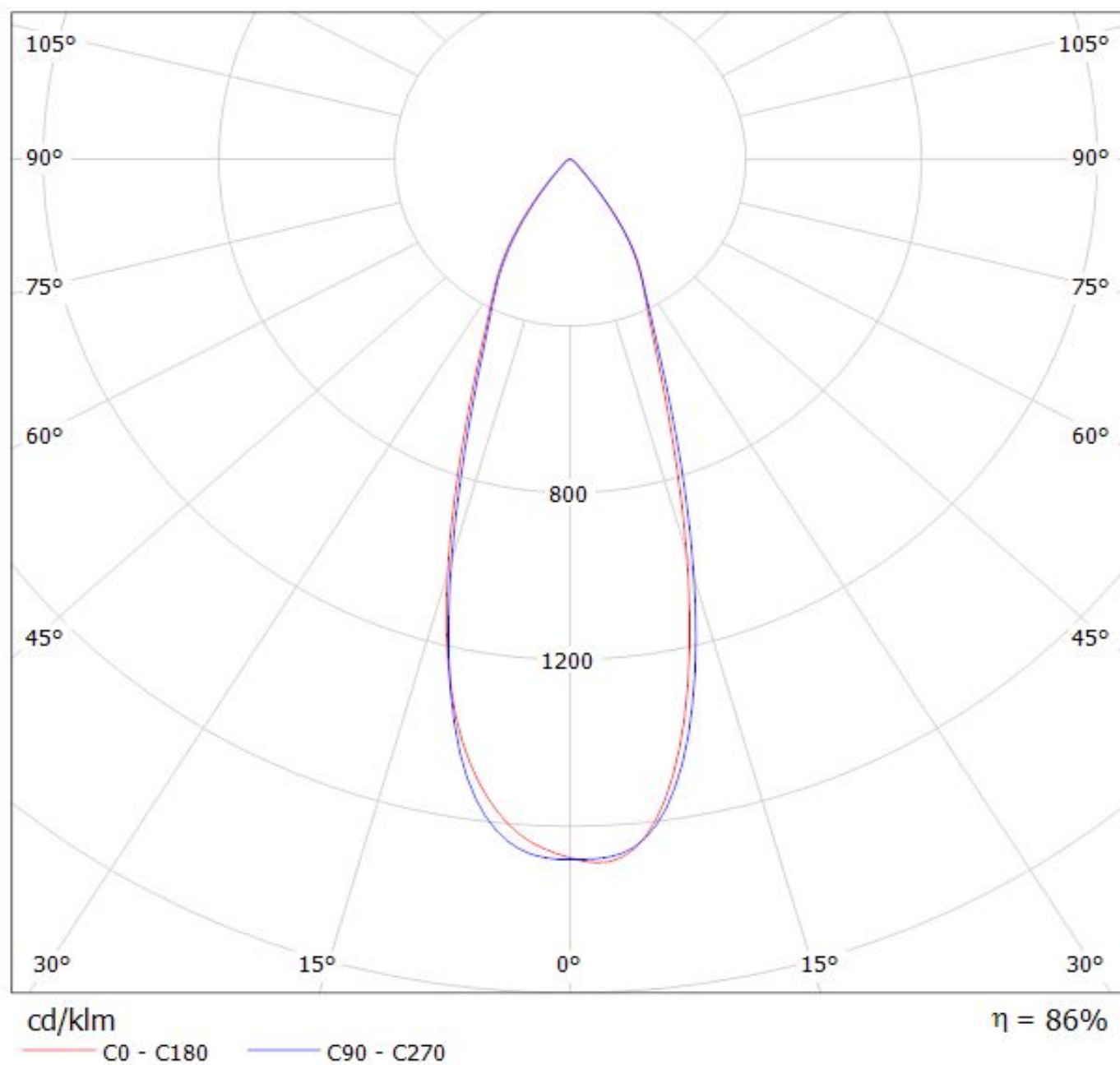
Lamps: 1 x CITIZEN\_CLU710\_(CLU710-1204B8-273M2G1)\_1212.66lm@250mA\_P=8.5W\_I=0.25A



Luminaire: Ledil Oy  
Lamps: 1 x CN12484\_MIRELLA-50-M-DL\_(CLL028)

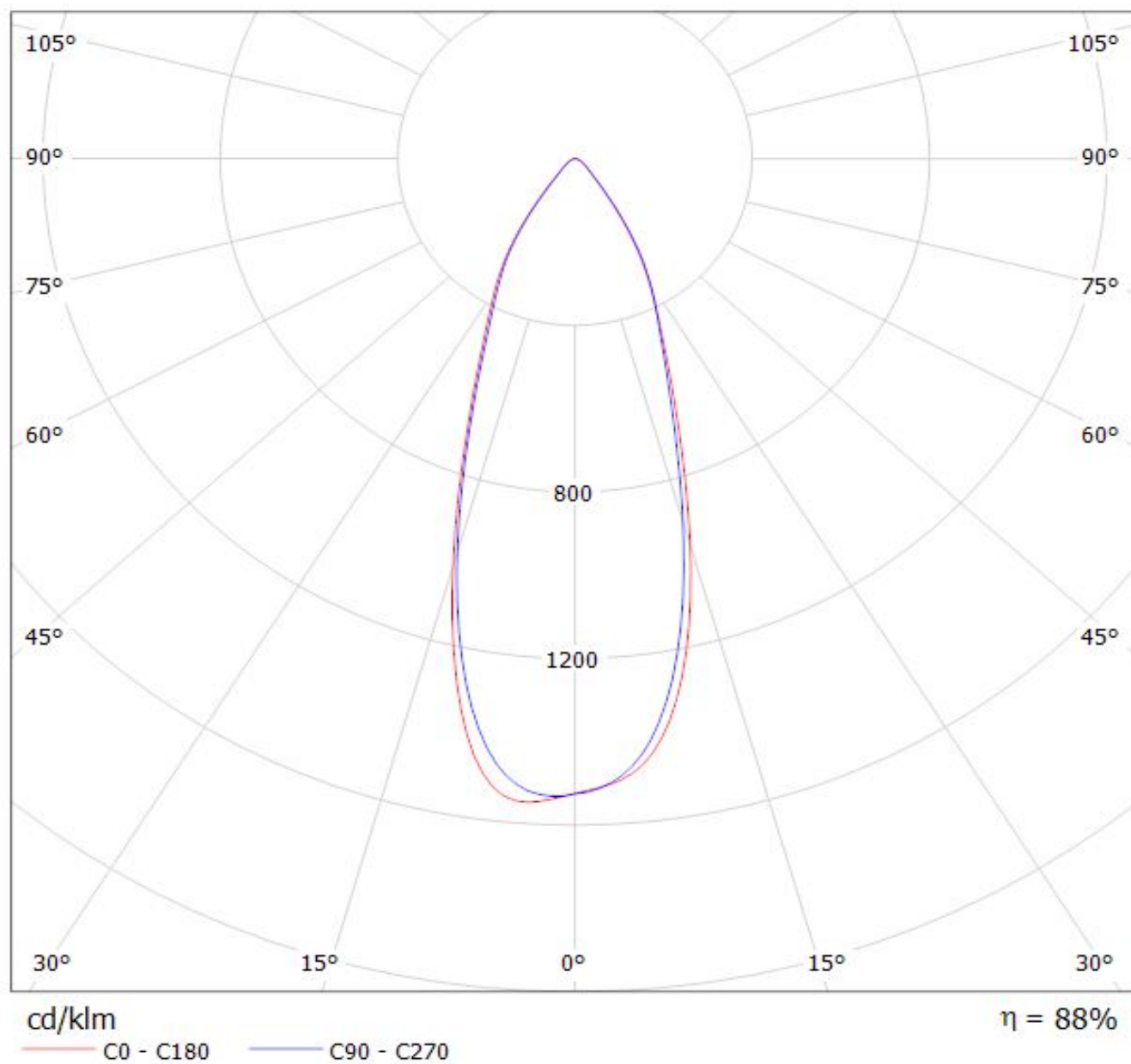


Luminaire: LEDiL Oy CN12484\_MIRELLA-50-M-DL\_(Cree\_XHP70)  
Lamps: 1 x Cree\_XHP70\_258.083lm@250mA\_P=1.38117W\_I=0.2499A



Luminaire: Ledil CN12484\_MIRELLA-50-M-DL\_(MHD-G)

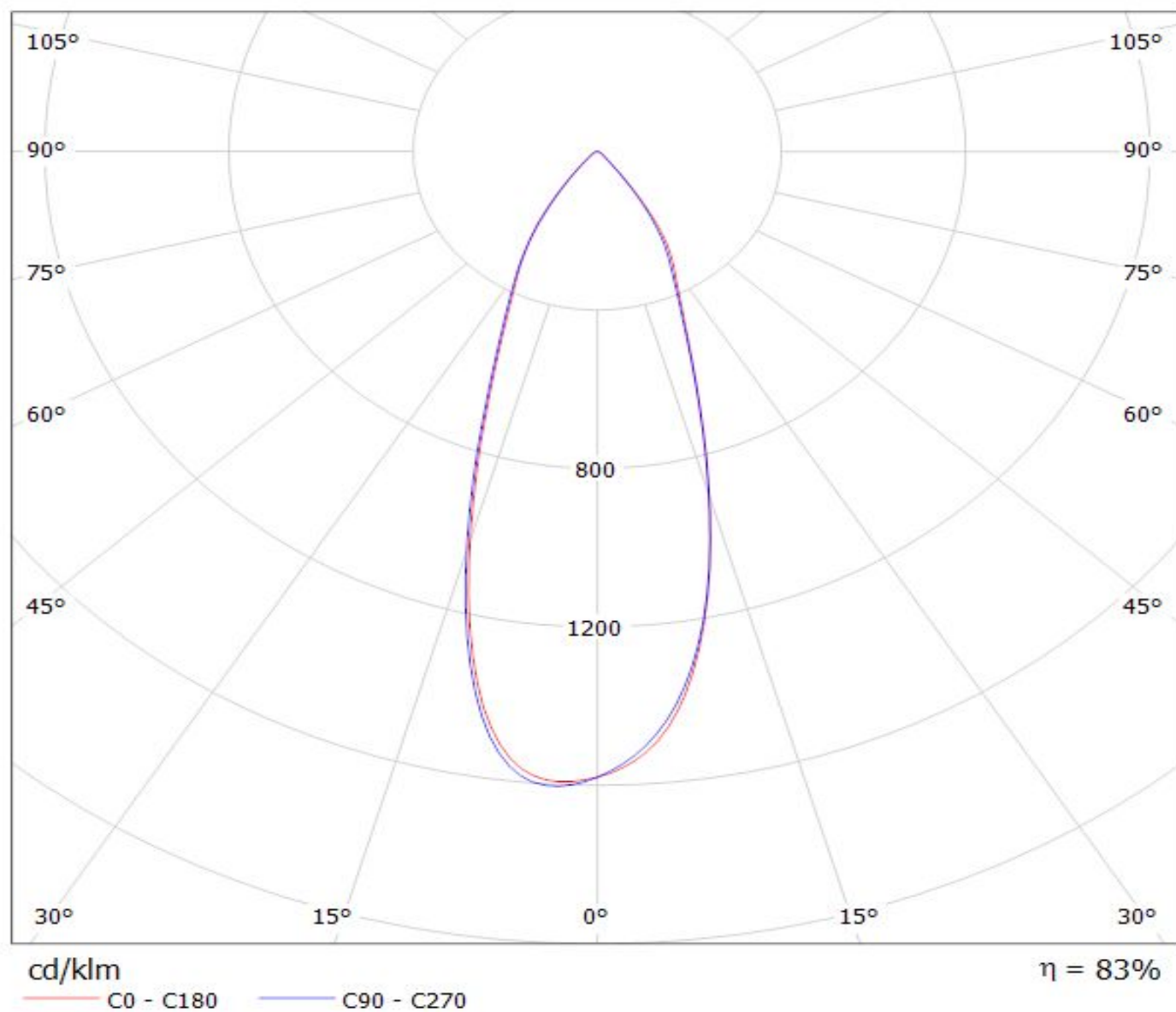
Lamps: 1 x Cree MHD-G\_528.649lm@100mA\_P=3.0W\_I=0.100A



## LEDiL Oy CN12484\_MIRELLA-50-M-DL\_(MT-G2) Eff.83.1% / LDC (Polar)

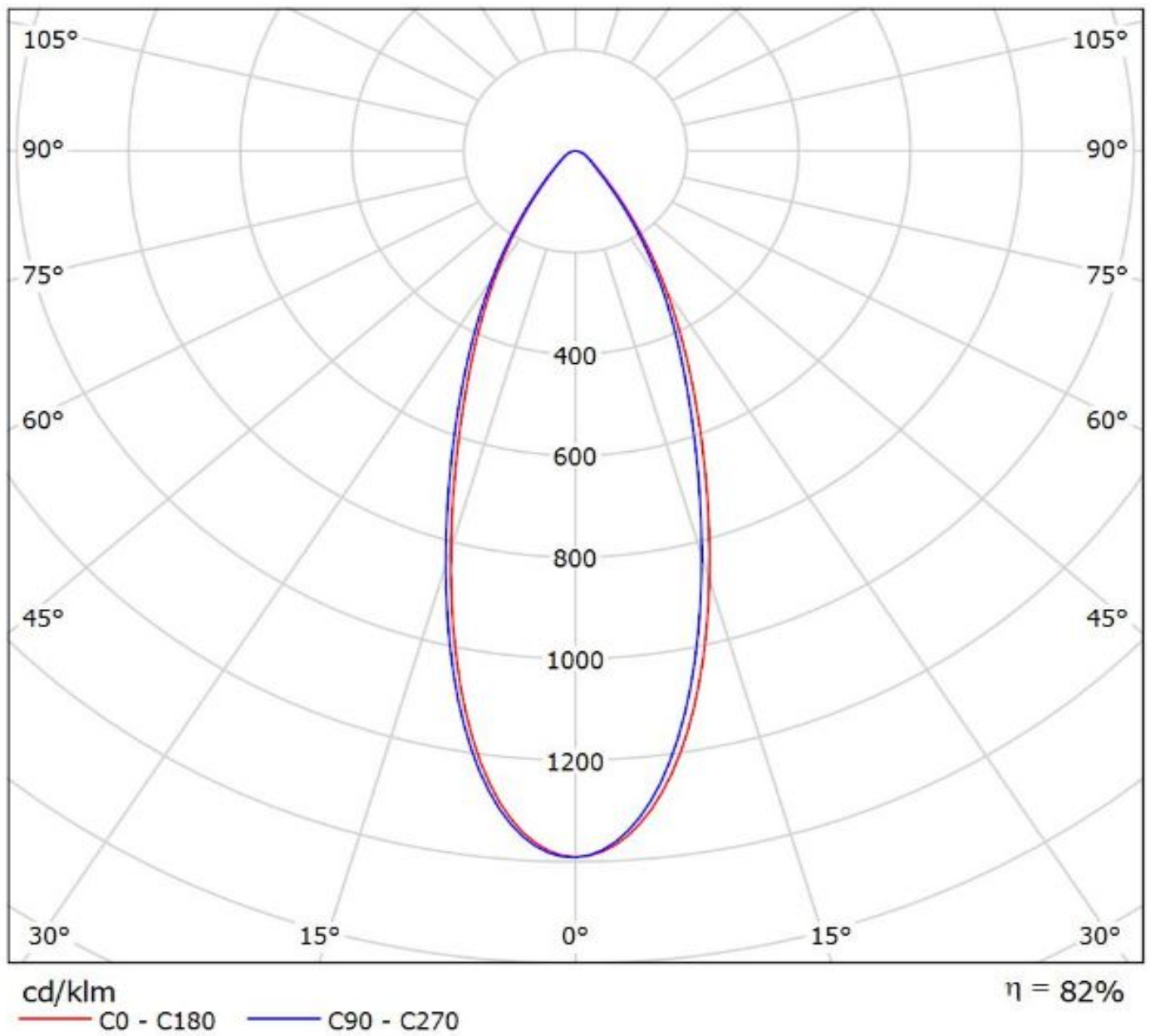
Luminaire: LEDiL Oy CN12484\_MIRELLA-50-M-DL\_(MT-G2) Eff.83.1%

Lamps: 1 x MT-G2 (165.381lm@250mA)

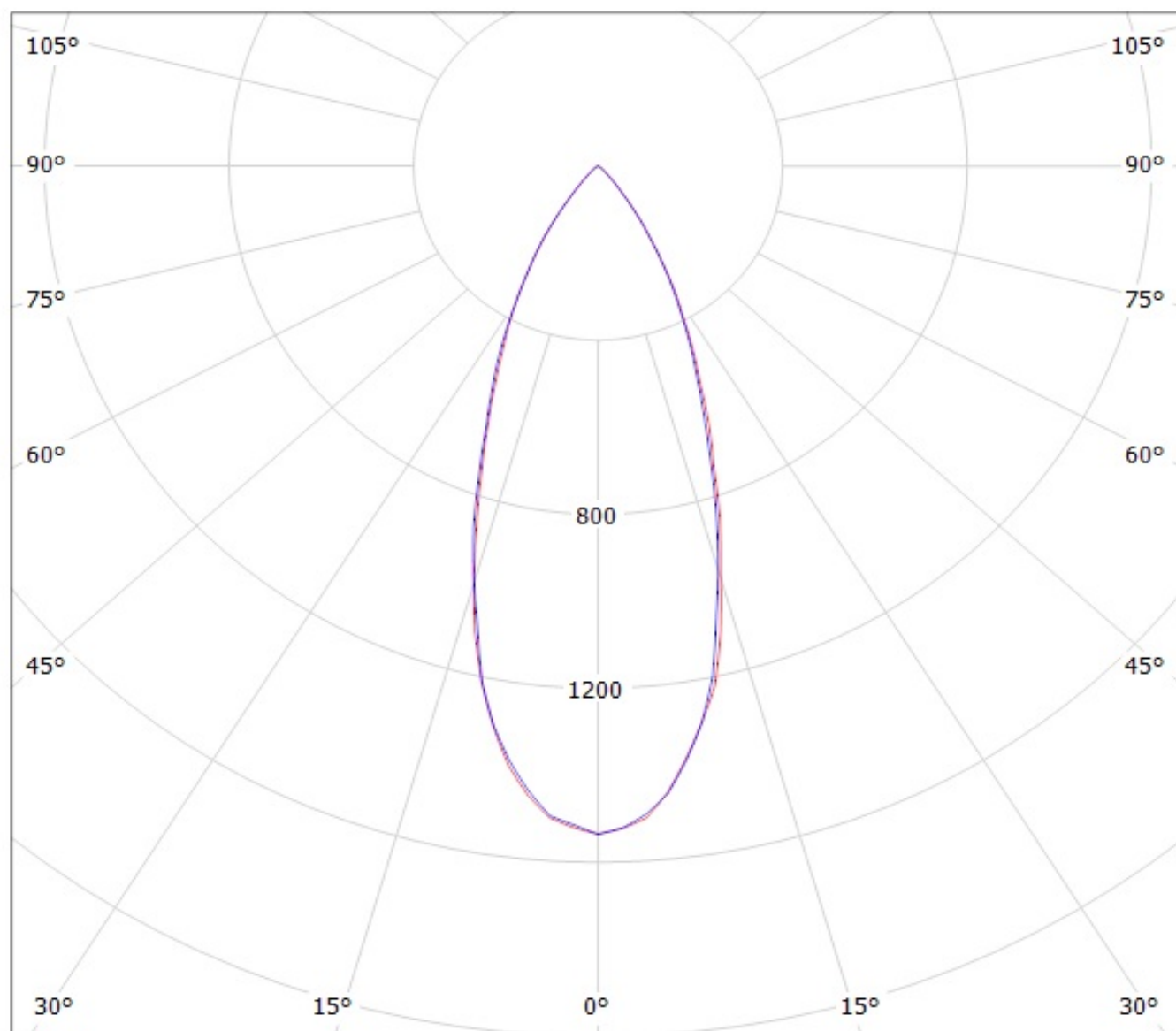




Luminaire: Ledil CN12484\_MIRELLA-50-M-DL\_(CLU720)  
Lamps: 1 x CITIZEN\_CLU720\_(CLU720-1206B8-273M2)  
\_1298.17lm@250mA\_CCT=2700K\_P=8.3W\_I=0.25A



Luminaire: LEDil Oy CN12484\_MIRELLA-50-M-DL\_(Soleriq\_S13) Efficiency=81%  
Lamps: 1 x Osram Soleriq S13 (GW KAGHB1.EM) 832lm @ 250mA CCT=3100K P=7.4W I=250mA



cd/klm

— C0 - C180

— C90 - C270



**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.
- Fastening to PCB with appropriate adhesive. By clicking link below you can find Ledil recommended glue options.  
[http://www.ledil.com/datasheets/DataSheet\\_GLUES.pdf](http://www.ledil.com/datasheets/DataSheet_GLUES.pdf)

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.

**NOTE 1: We advise customer to ensure the suitability and sufficiency of the bond in the end product. For example, mechanical stress, vibration and holes on the surface of the circuit board weaken the strength of the glue.**

**NOTE 2: All surfaces where glue is applied must be clean, dry and free from grease and dirt. If cleaning of PCB surfaces is needed, please follow strictly the cleaning instructions of your LED manufacturer -this is important as cleaning shall under no circumstances damage LEDs or other electronics components on the PCB.**

**Further note that optical components shall not be cleaned with any chemicals - only micro fiber cloth may be used to remove fingerprints or other traces from handling.**