

## DETAILS

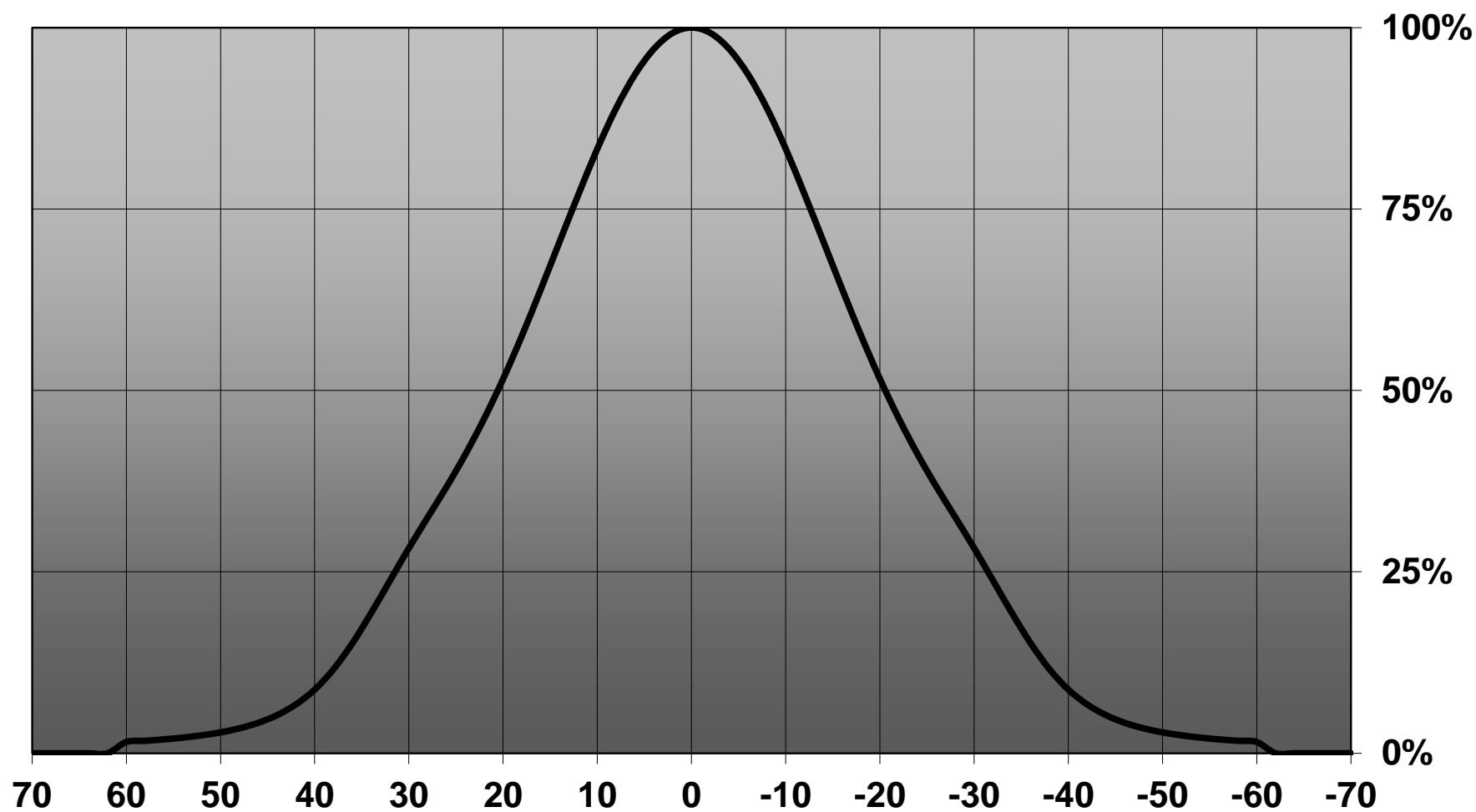
<b>Product Number</b>	CN12485_MIRELLA-50-W-DL
<b>Family</b>	Mirella
<b>Type</b>	RefPack
<b>Color</b>	metal
<b>Diameter</b>	49,9 mm
<b>Height</b>	23,9 mm
<b>Style</b>	round
<b>Optic Material</b>	PC
<b>Holder Material</b>	
<b>Fastening</b>	glue
<b>Status</b>	production ready
<b>ROHS Compliant</b>	Yes
<b>Date Updated</b>	21/04/2016

## OPTICAL PROPERTIES

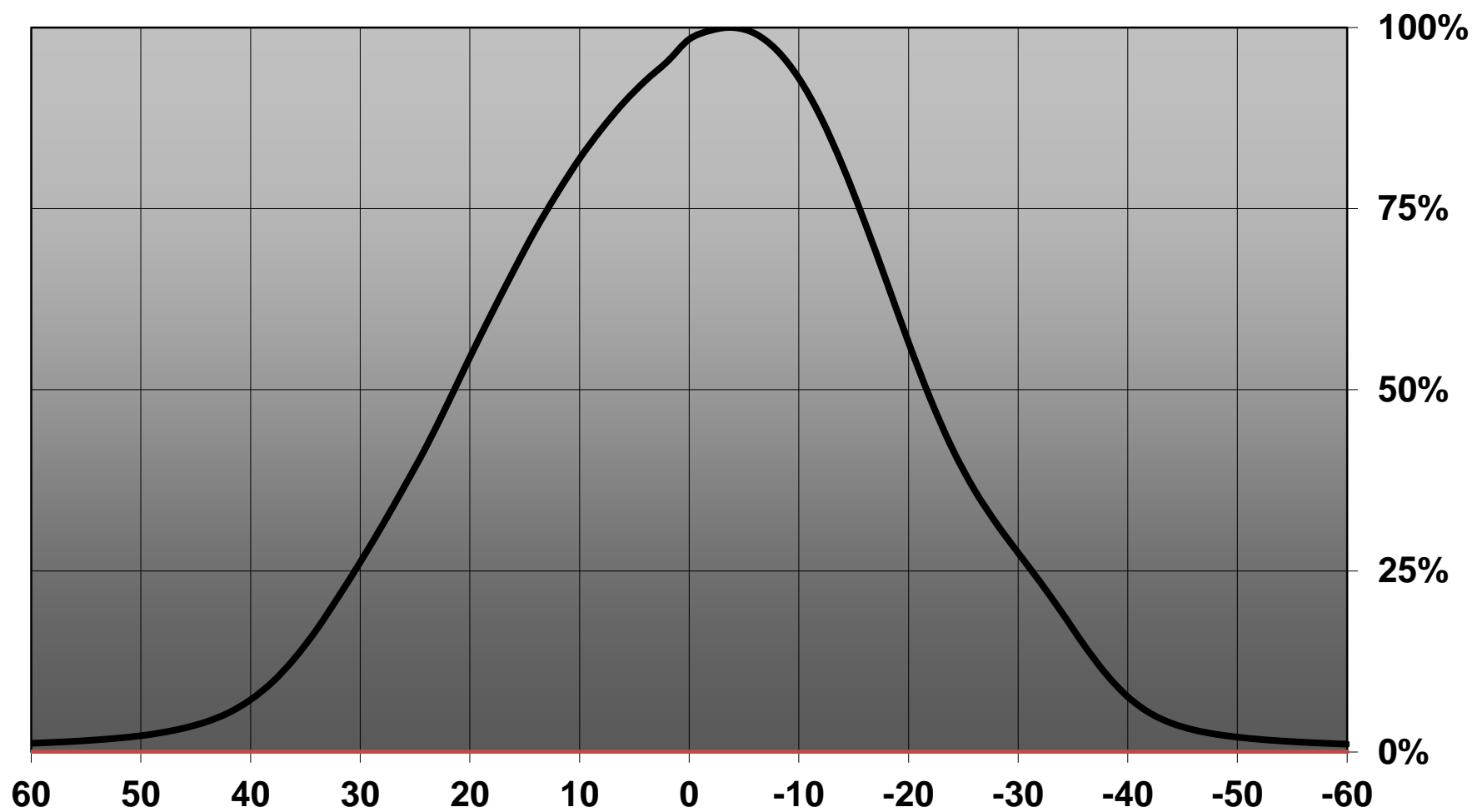
LED	Viewing	Light	Effi-		
	Angle	Beam	ciency	cd/lm	Connector
Soleriq S9	sim: 51	Wide	sim: 85 %	sim: 1.100	-
LUXEON S1000	41 deg	Wide	-	sim: 0.000	-
BXRA LS	43 deg	Wide	82 %	1.300	-
CXA/B 13xx	43 deg	Wide	81 %	1.400	-
COB 4W	44 deg	Wide	83 %	1.300	-
STARK SLE PURE G3 LES10	44 deg	Wide	82 %	1.400	-
Mini Zenigata (GW5BM)	45 deg	Wide	84 %	1.260	-
Mini Zenigata (GW6BM)	45 deg	Wide	81 %	1.100	-
NSCxL036A	46 deg	Wide	83 %	1.300	-
CLU700	47 deg	Wide	82 %	1.100	-
CLL02x/CLU02x (LES10)	48 deg	Wide	82 %	sim: 0.000	-
NSBxL066A/NFCxL036B	48 deg	Wide	83 %	1.200	-
ZC4/6	48 deg	Wide	81 %	1.200	-
XHP50	48 deg	Wide	85 %	1.100	-
CXM-9	49 deg	Wide	83 %	1.100	-
Duris S10	49 deg	Wide	79 %	1.100	-
CLL01x	50 deg	Wide	-	sim: 0.000	-
CXA/B 15xx	50 deg	Wide	87 %	1.100	-
LUXEON CoB 1202/1203	50 deg	Wide	84 %	1.200	-
CLU710	50 deg	Wide	79 %	0.960	-
CLL02x/CLU02x (LES10)	50 deg	Wide	83 %	1.090	-
MT-G2	52 deg	Wide	83 %	1.100	-
CXA/B 1816 & CXA/B 1820 & CXA 1850	52 deg	Wide	82 %	1.200	-
MHD-E/G	52 deg	Wide	87 %	1.000	-
CLU720	53 deg	Wide	79 %	0.890	-



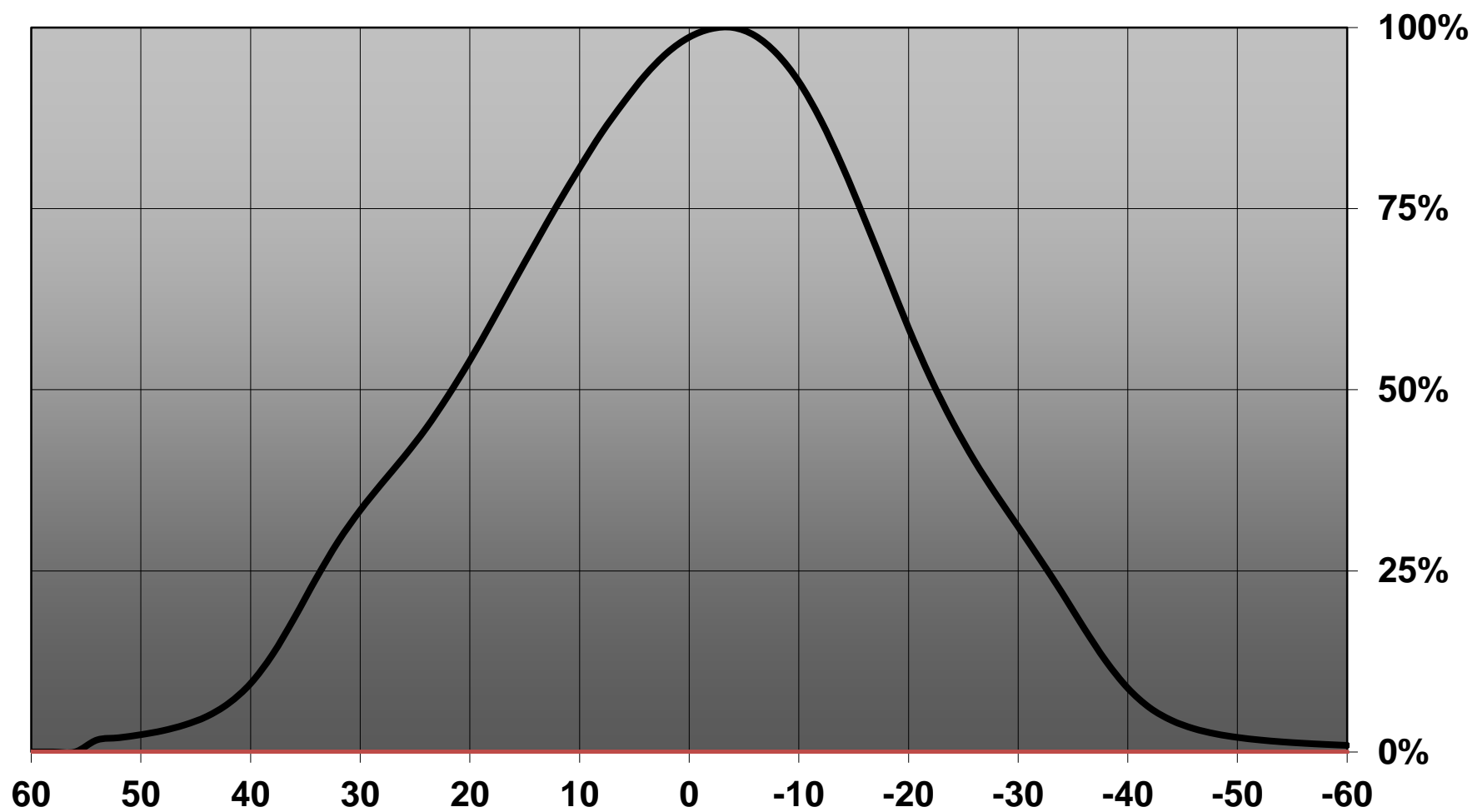
Relative intensity of CN12485\_MIRELLA-50-W-DL\_(Luxeon\_S)



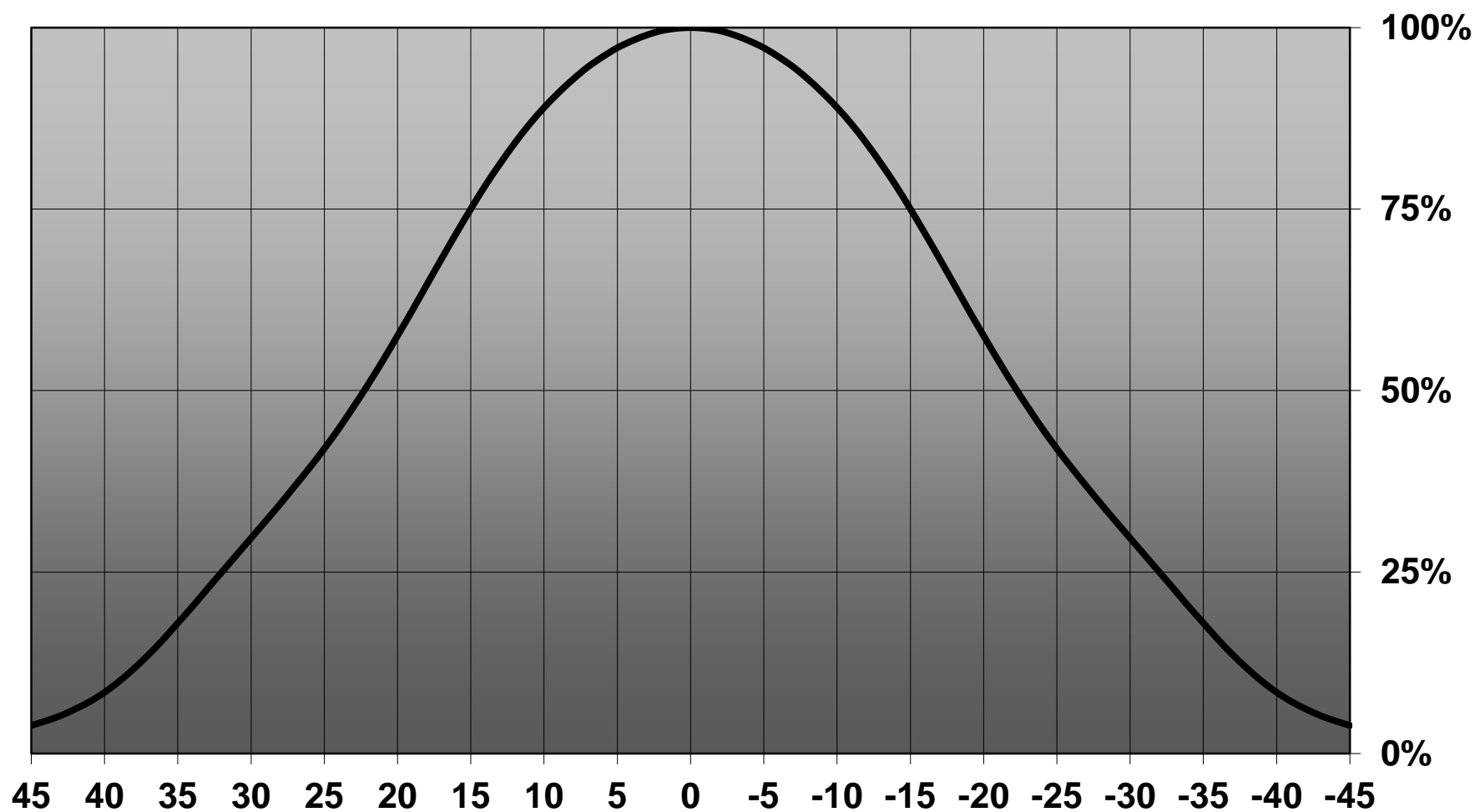
Relative intensity of CN12485\_MIRELLA-50-W-DL\_(CXA1304)



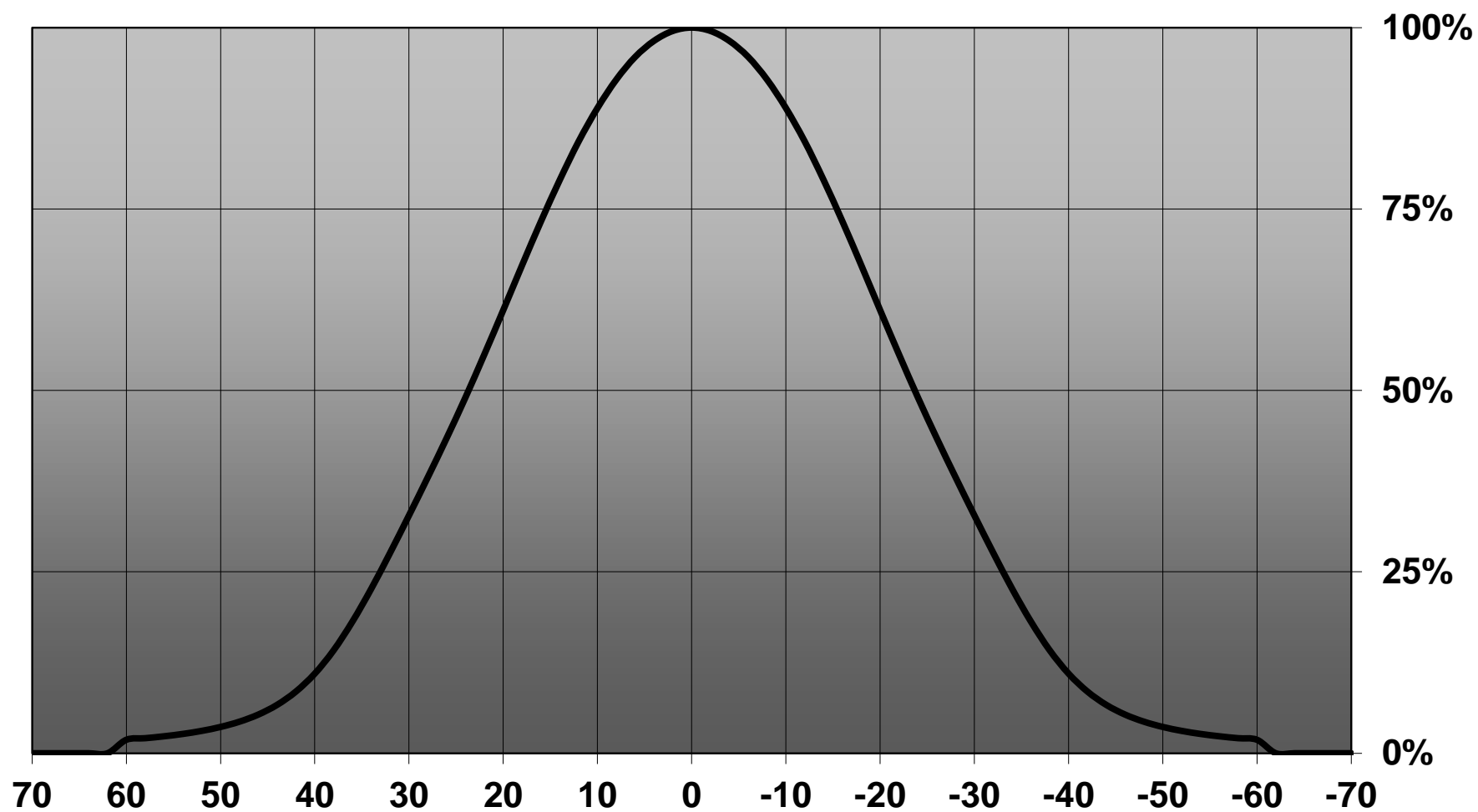
**Relative intensity of Mirella-W-DL-4WLG**



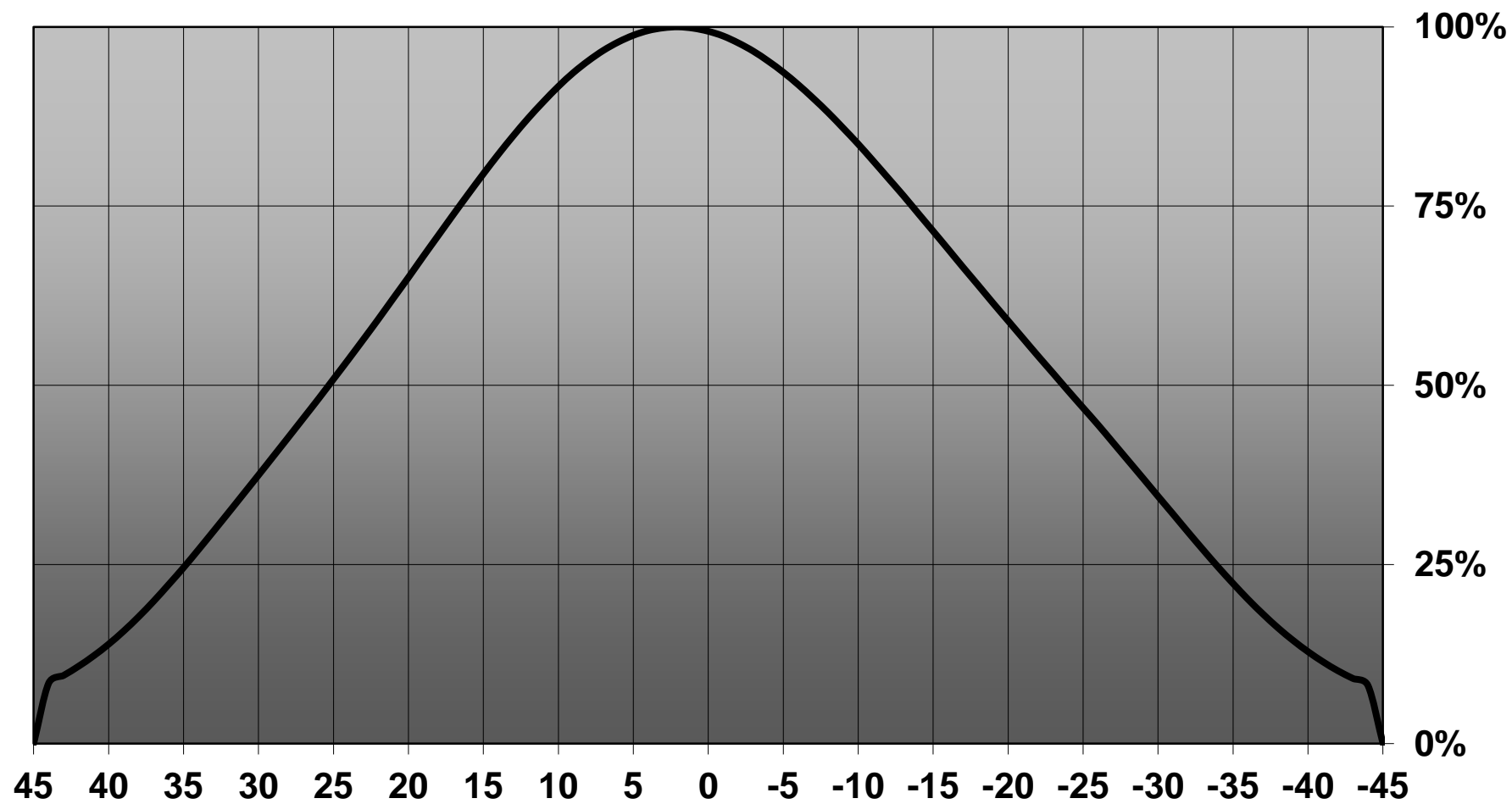
**Relative intensity of CN12485\_MIRELLA-50-W-DL\_(MiniZenigata)**



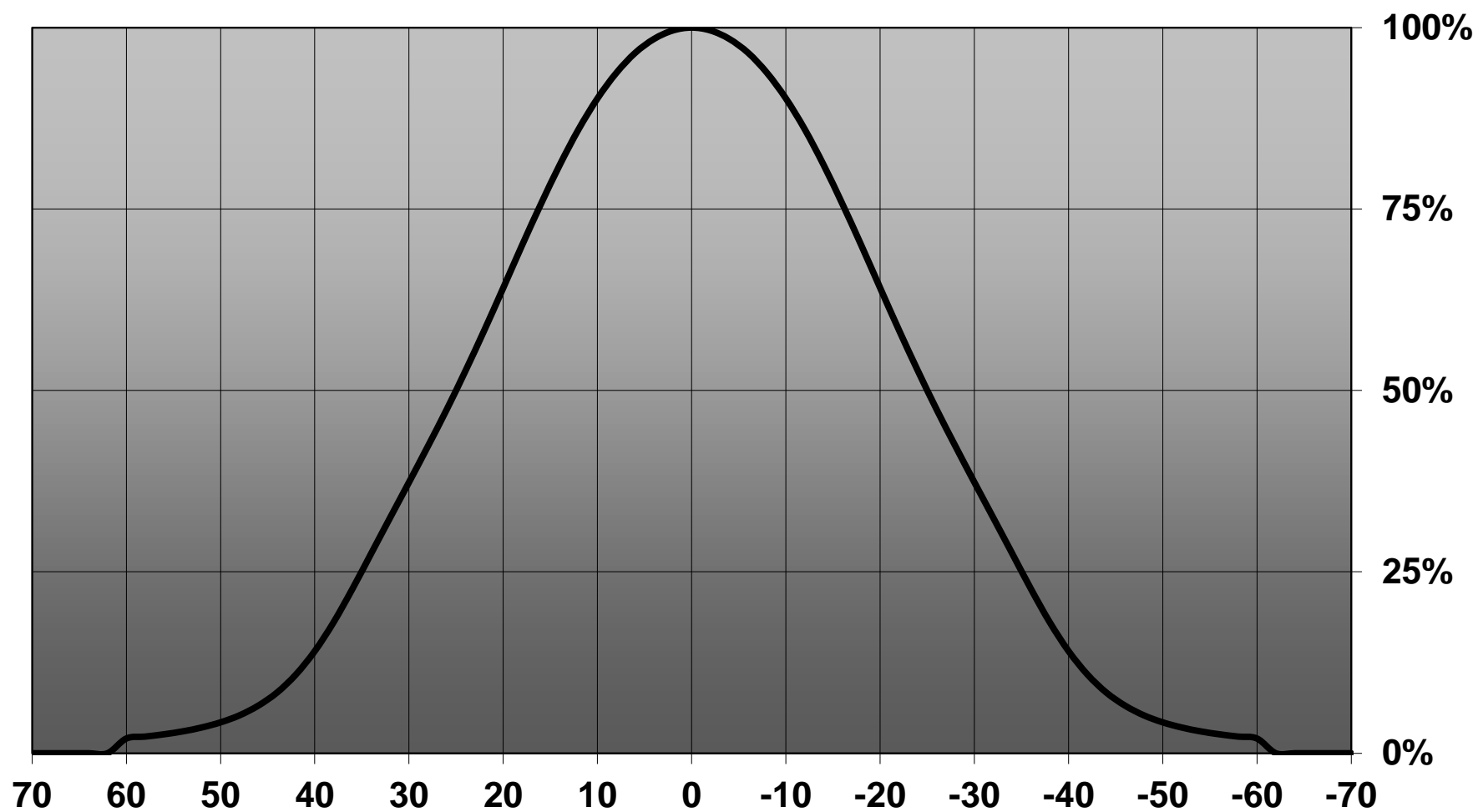
Relative intensity of CN12485\_MIRELLA-50-W-DL\_(CLL020)



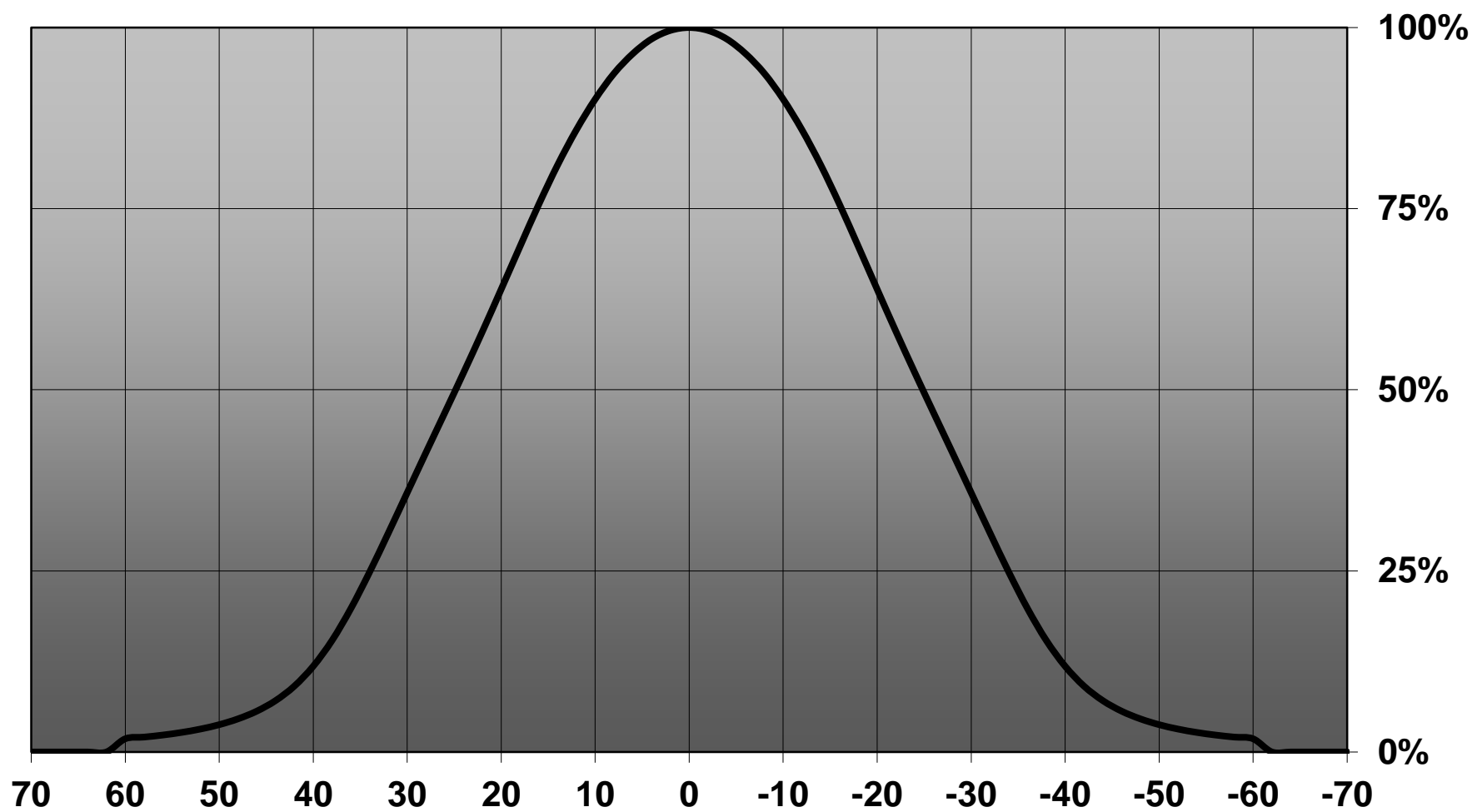
Relative intensity of CN12485\_MIRELLA-50-W-DL\_(Duris\_S10)



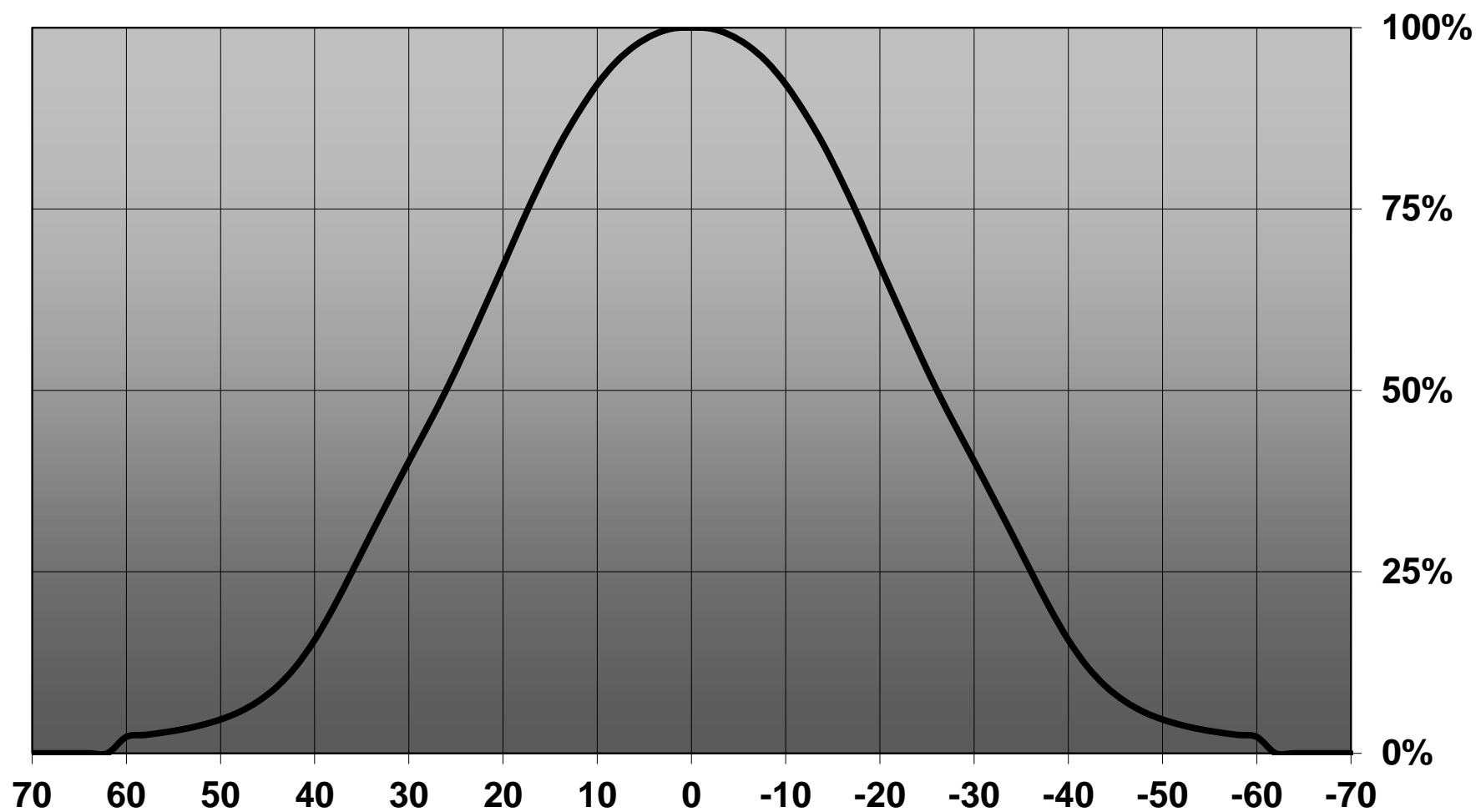
Relative intensity of CN12485\_MIRELLA-50-W-DL\_(CLL010)



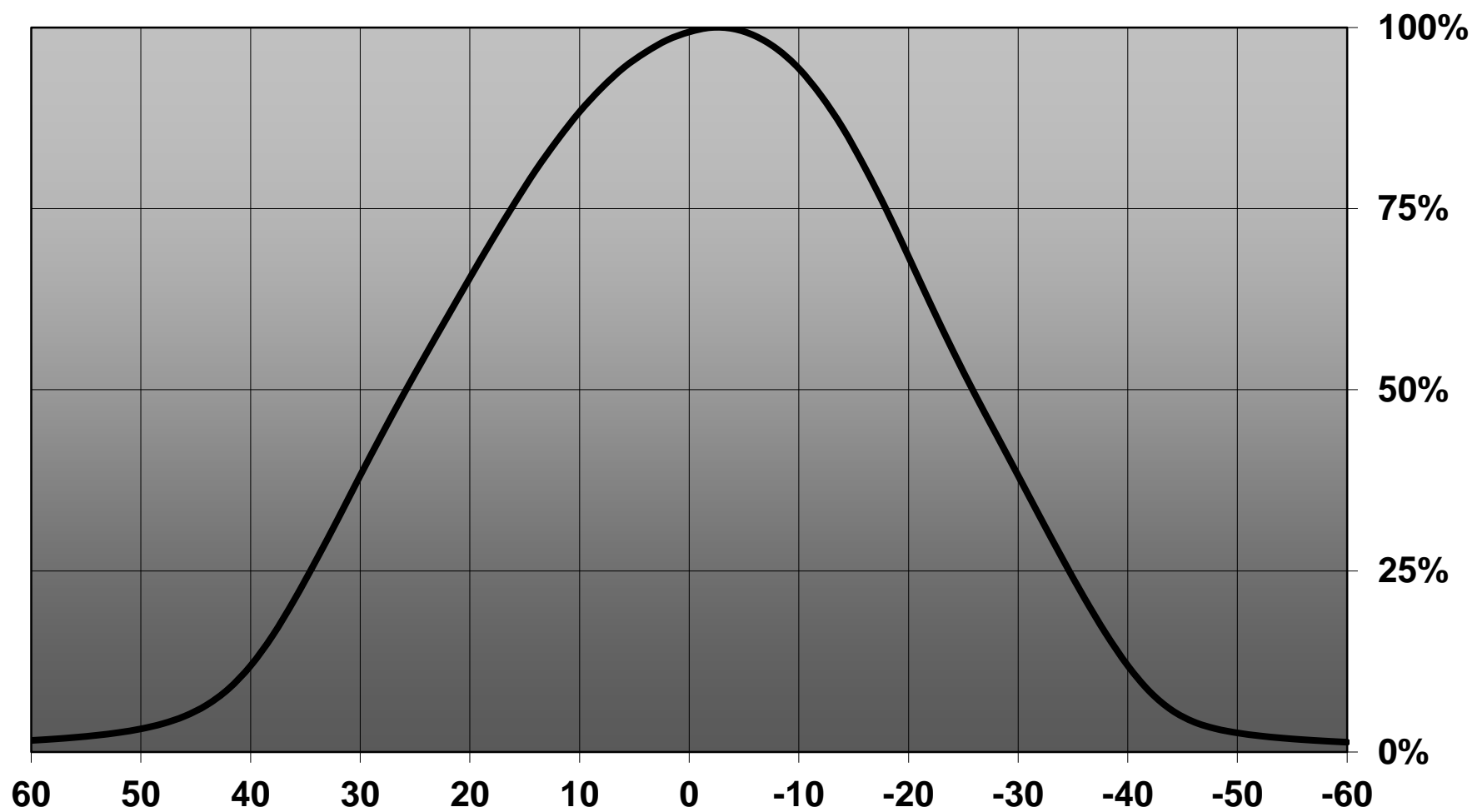
Relative intensity of CN12485\_MIRELLA-50-W-DL

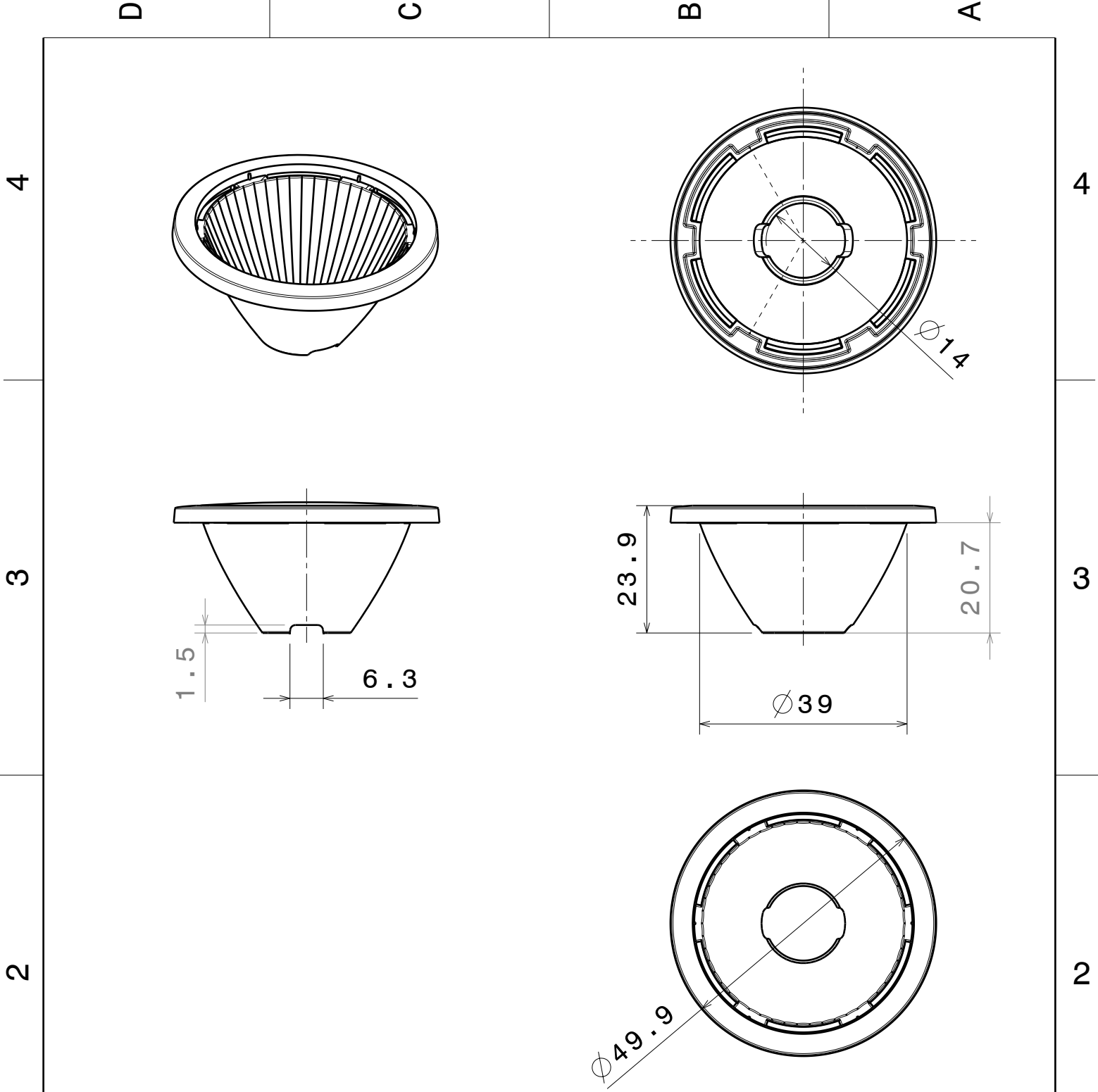


Relative intensity of CN12485\_MIRELLA-50-W-DL\_(MTG\_Gen\_II)



Relative intensity of CN12485\_MIRELLA-50-W-DL\_(CXA1816)





Material: PC, metal plated

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or communicated without  
our written agreement.



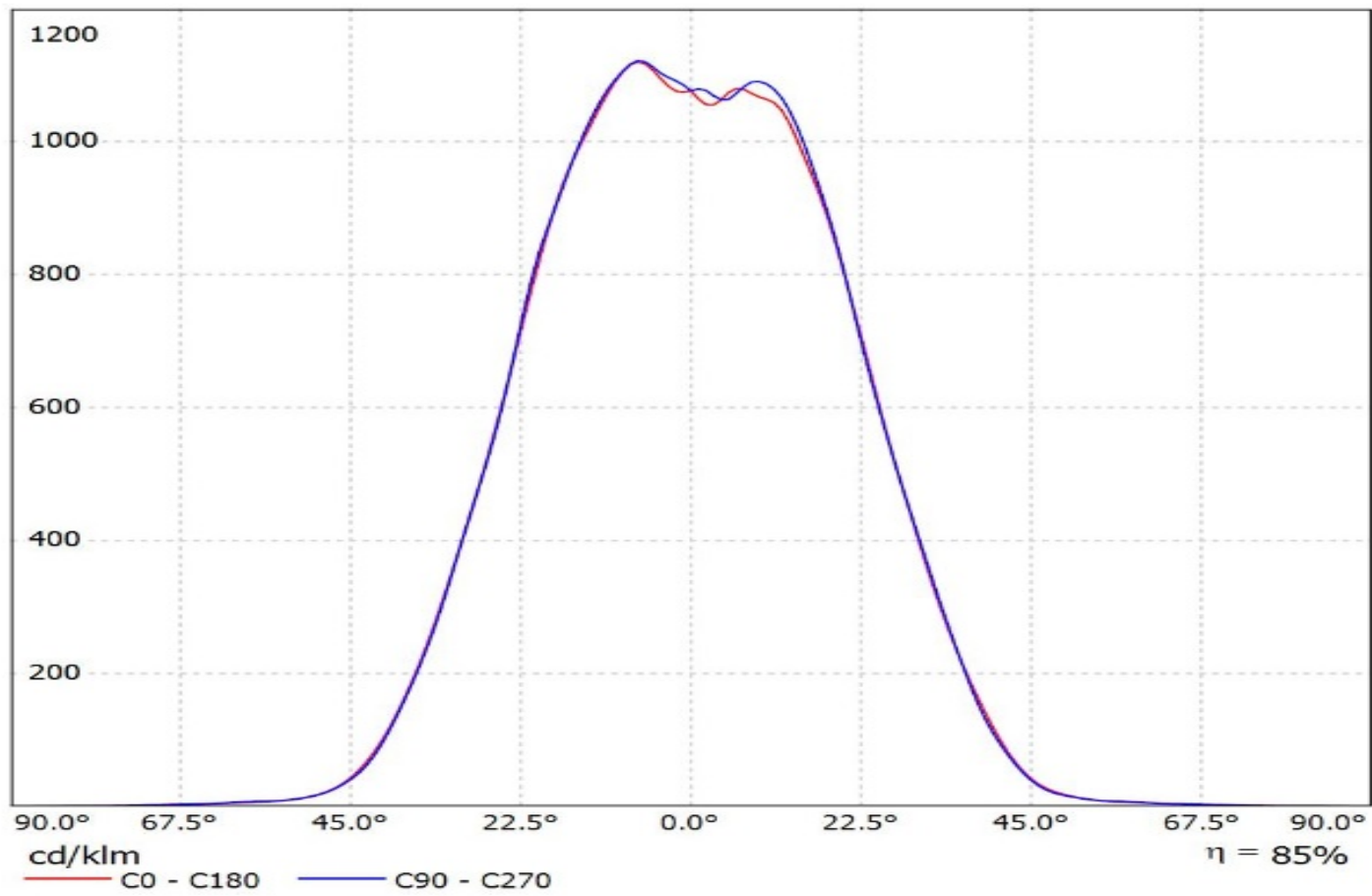
Ledil Oy  
Salorankatu 10  
FIN-24240 SALO  
Finland

DRAWING TITLE

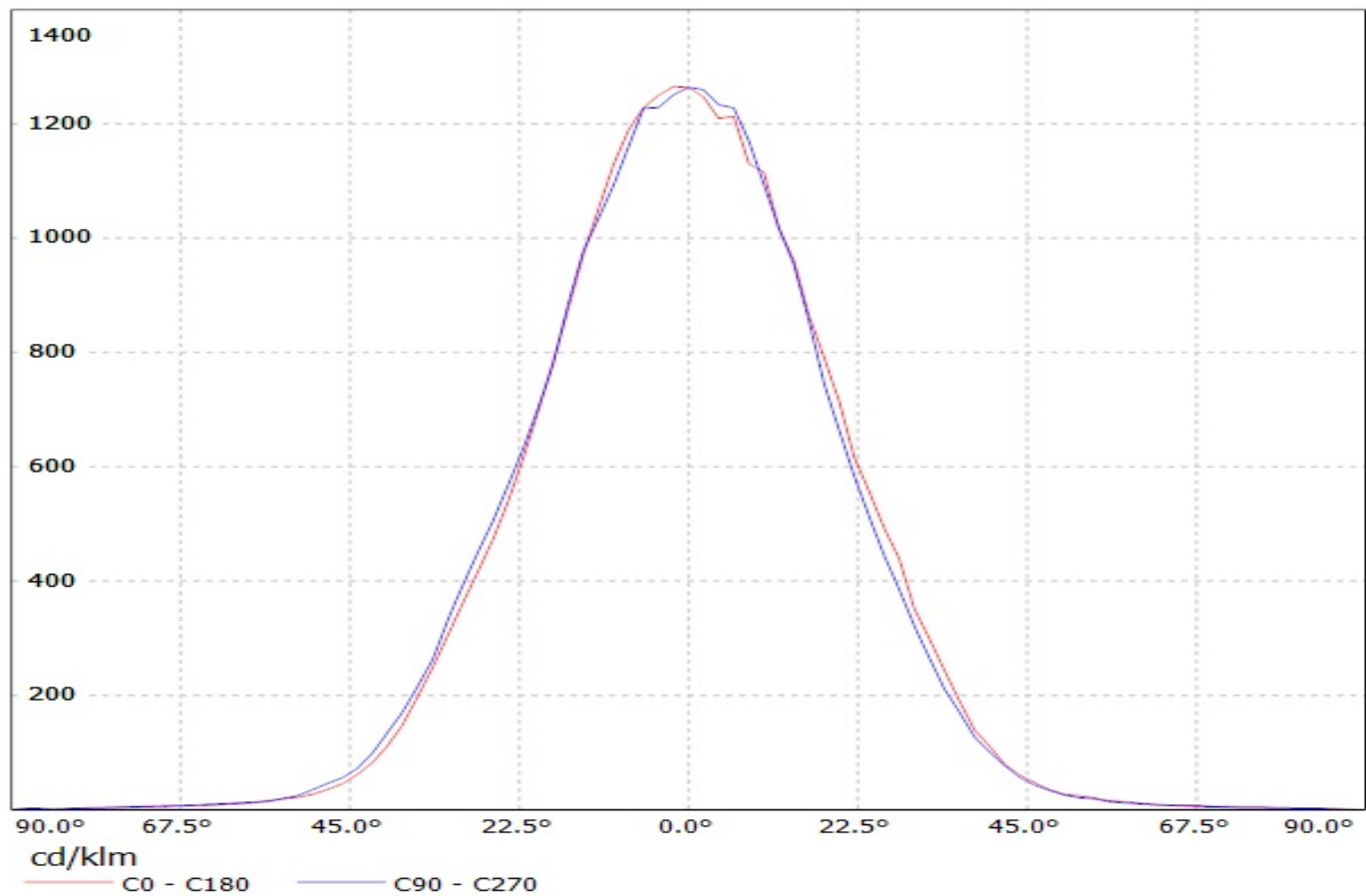
Datasheet Mirella reflector

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	

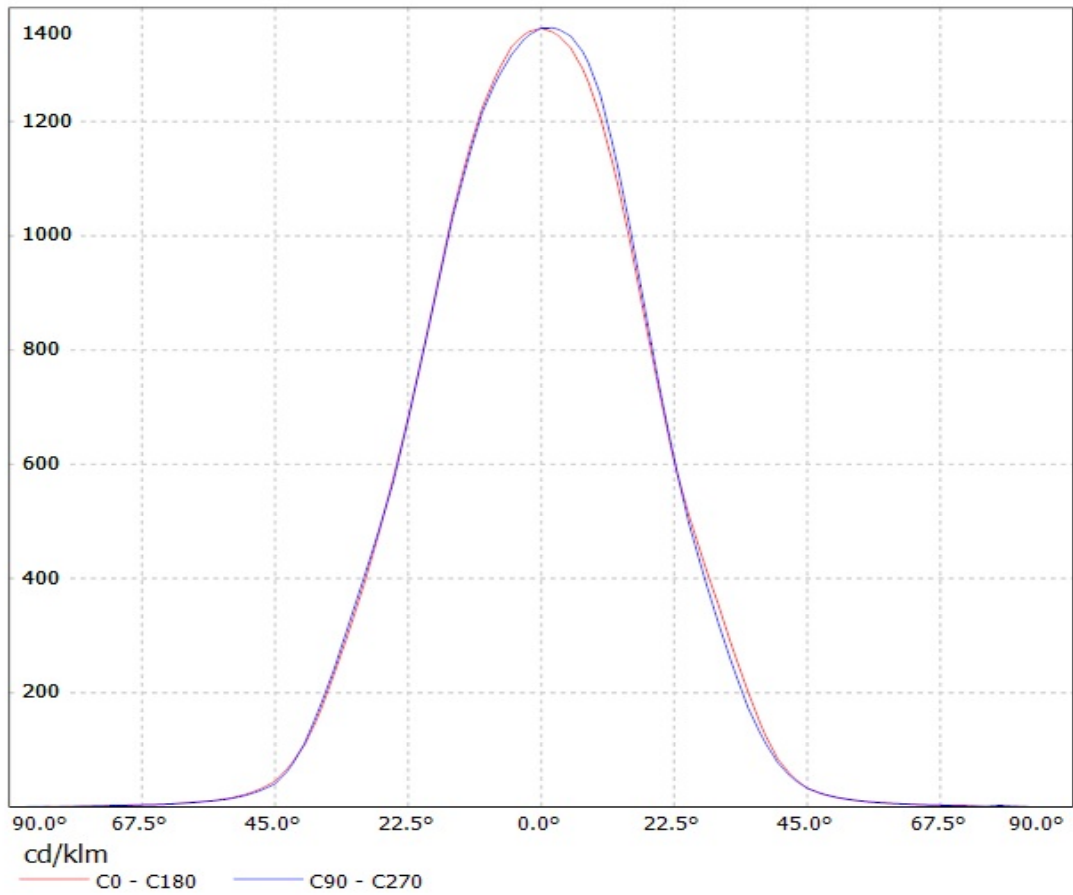
Luminaire: Ledil Oy CN12485\_MIRELLA-50-W-DL\_(Soleriq\_S9)\_SIMULATED  
Lamps: 1 x Osram Soleriq S9 (GW KAJFB3.EM)



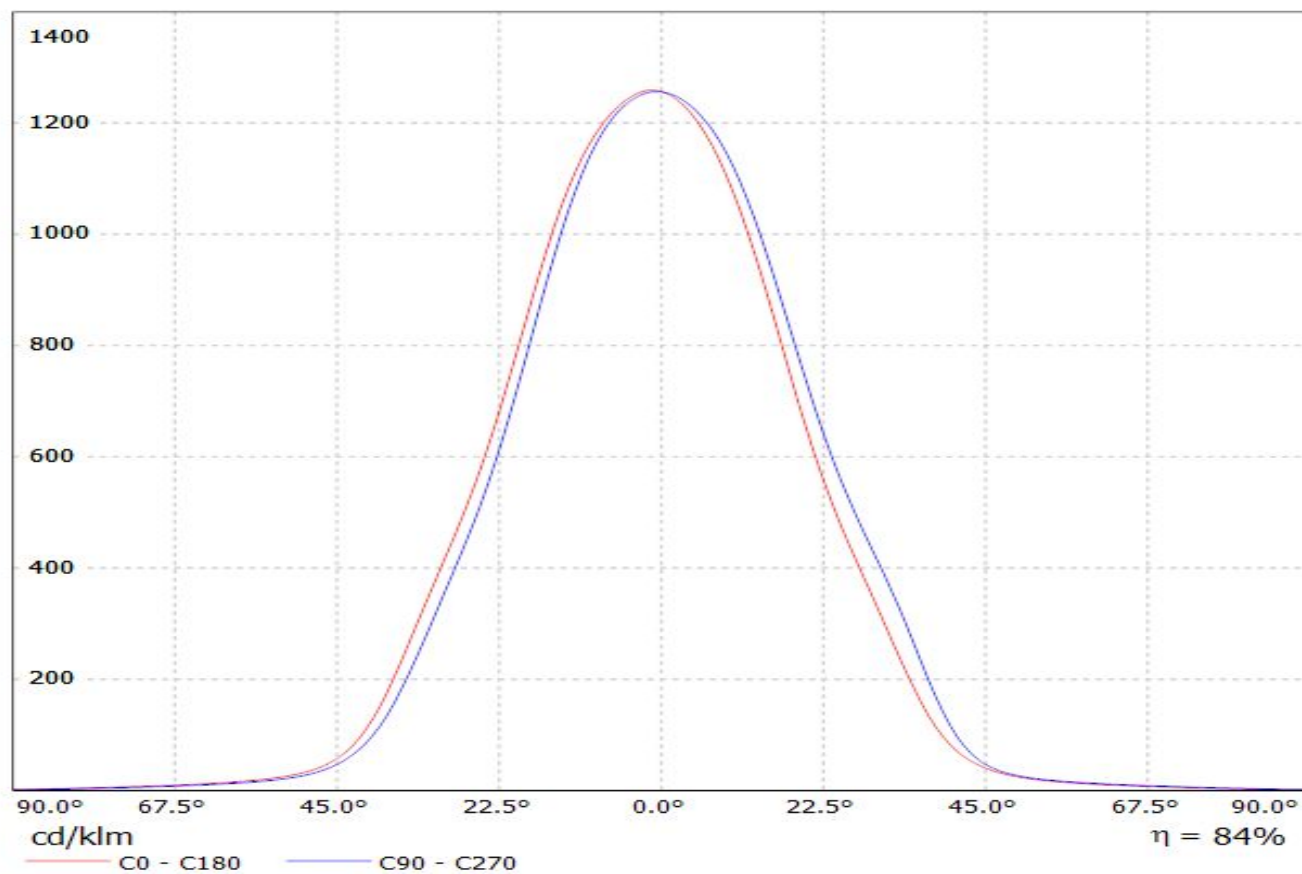
Luminaire: Ledil Oy CN12485\_MIRELLA-50-W-DL (Bridgelux LS 170lm @ 250mA) Efficiency=82%  
Lamps: 1 x Bridgelux LS 170lm @ 250mA



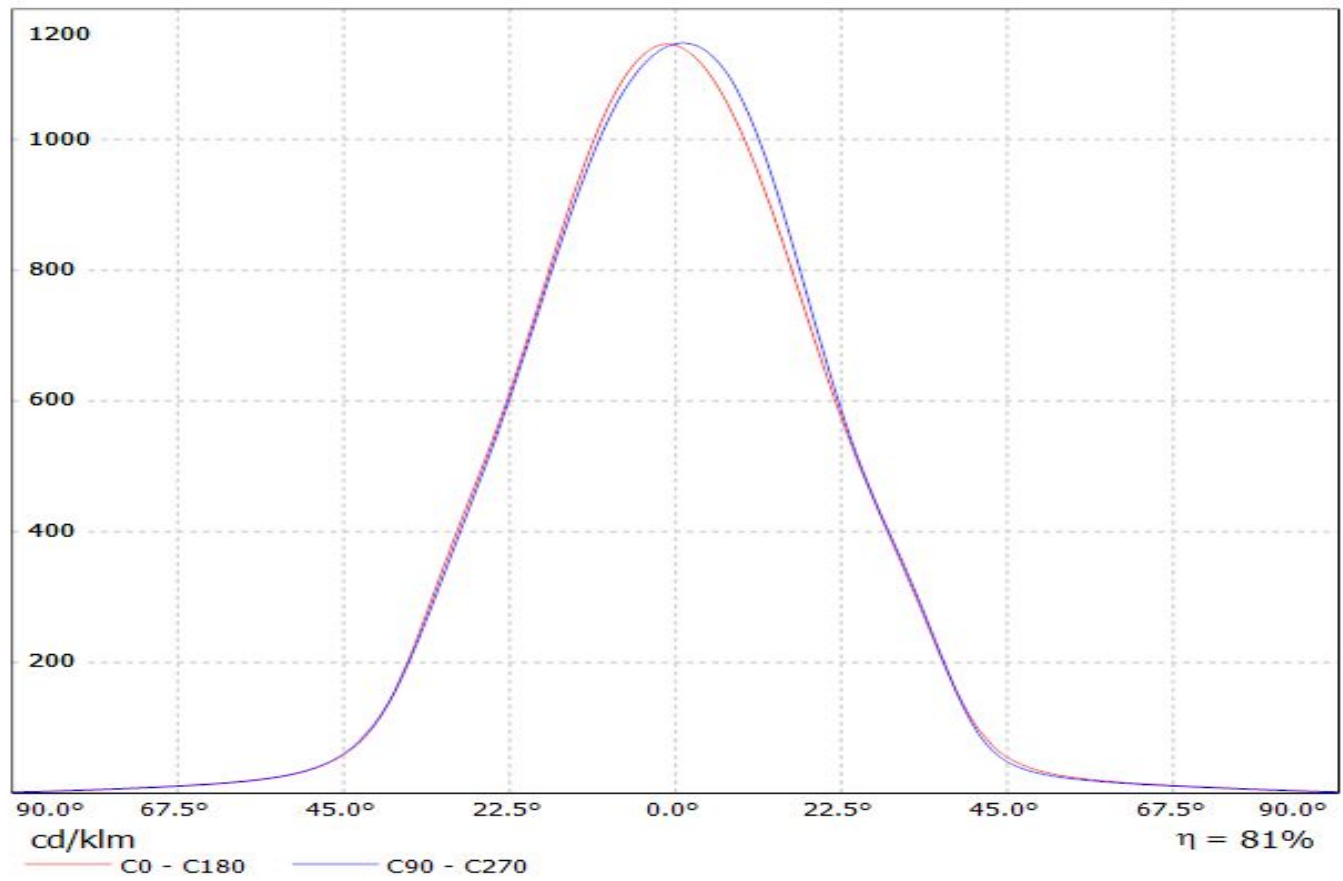
Luminaire: LEDil Oy CN12485\_MIRELLA-50-W-DL\_(Stark\_SLE\_G3\_LES10) Efficiency=82%  
Lamps: 1 x Tridonic Stark SLE G3 LES10 (STARK-SLE-PURE-G3-10-1000-830-CLA) 453lm @ 250mA CCT=3000K P=4.3W I=250mA



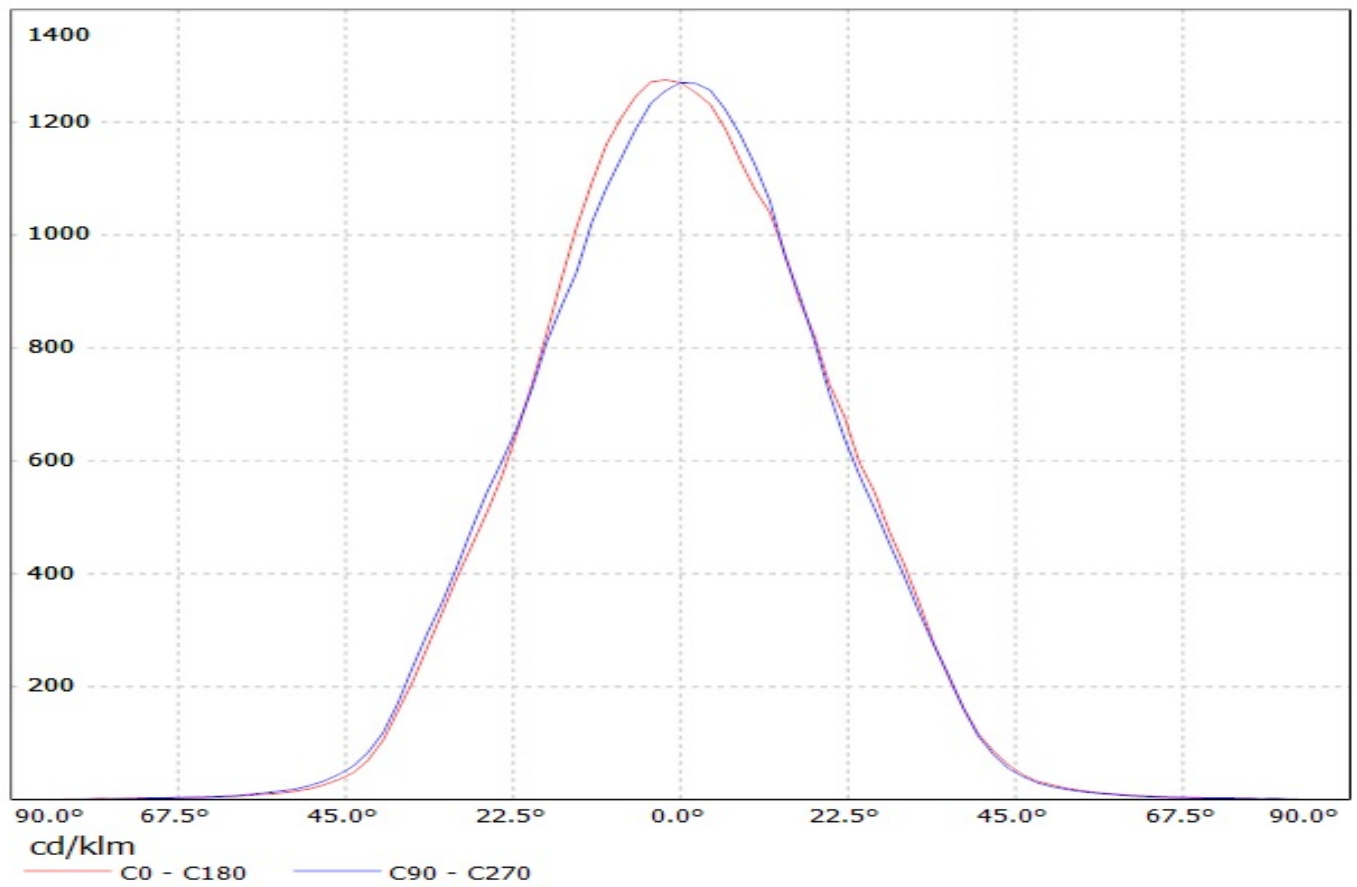
Luminaire: LEDIL OY CN12485\_MIRELLA-50-W-DL\_(MiniZenigata) Eff.83.6%  
Lamps: 1 x Mini Zenigata (387.5lm@250mA)



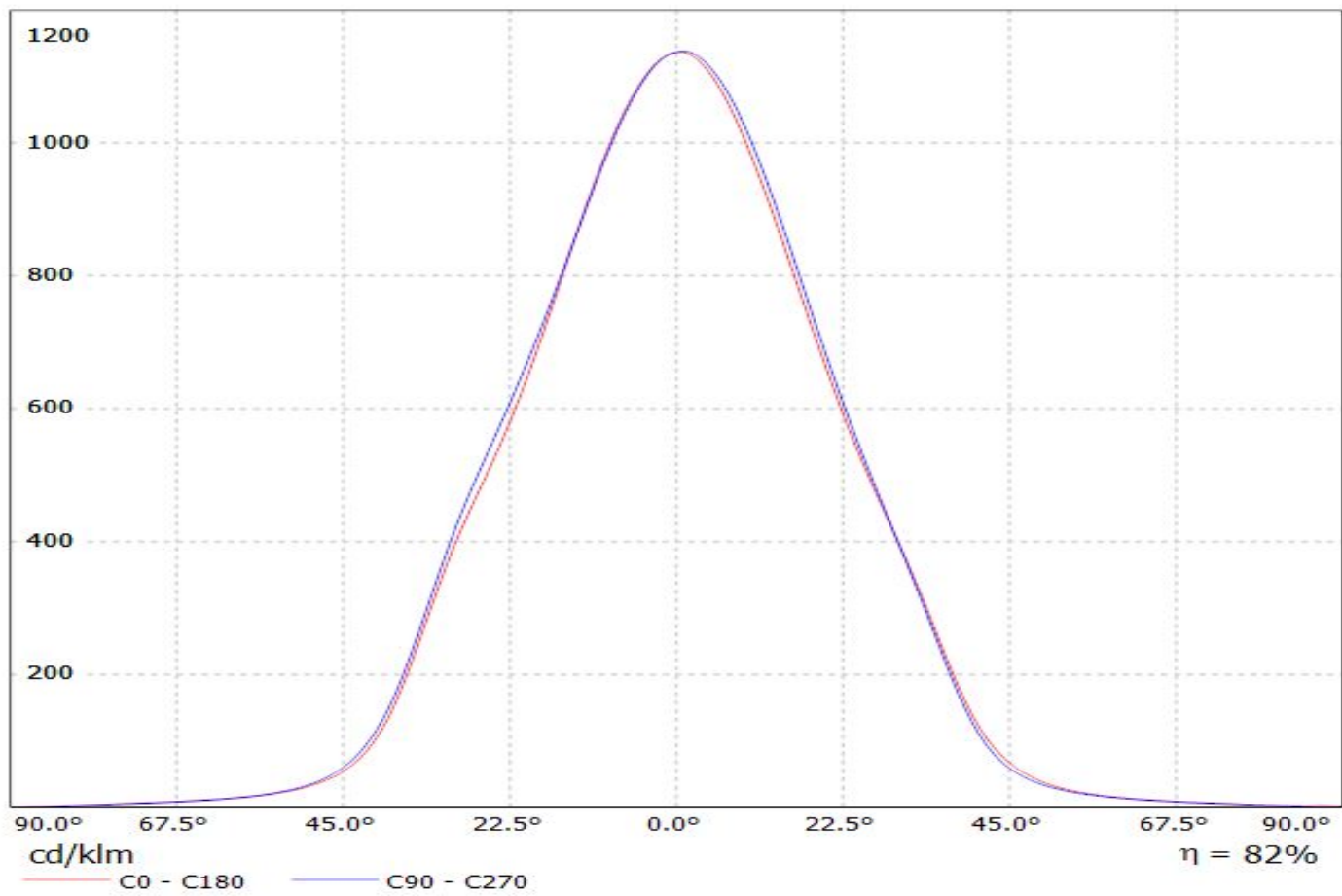
Luminaire: LEDiL Oy CN12485\_MIRELLA-50-W-DL\_(Mini\_Zenigata) Eff.81.2%  
Lamps: 1 x Mini\_Zenigata GW6BM (803.772lm@250mA)



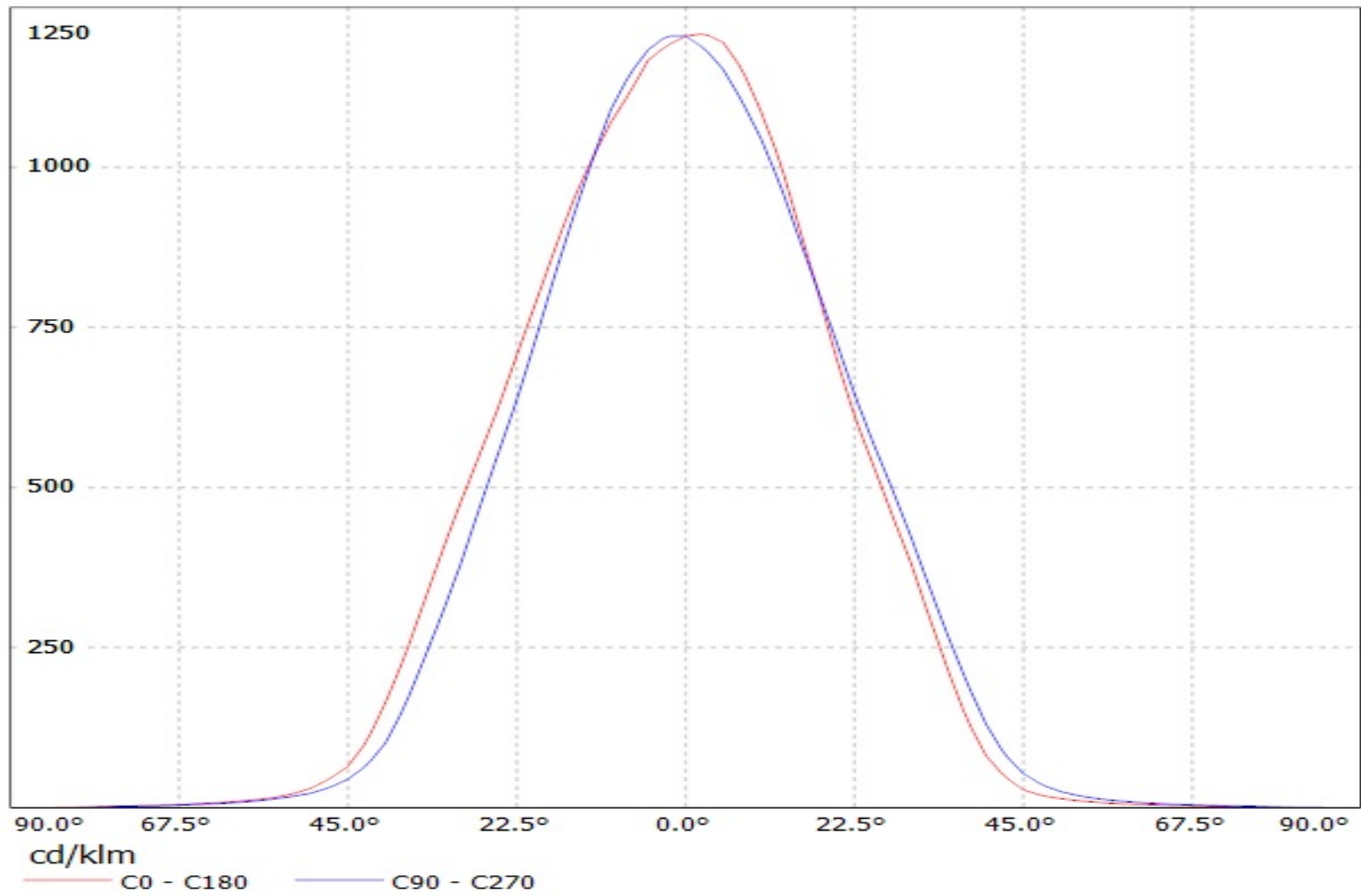
Luminaire: Ledil Oy CN12485\_MIRELLA-50-W-DL (Nichia NSCxL036A 434lm @ 100mA) Efficiency=83%  
Lamps: 1 x Nichia NSCxL036A 434lm @ 100mA (NSCLL036A) CCT=3000K P=3,4W I=100mA



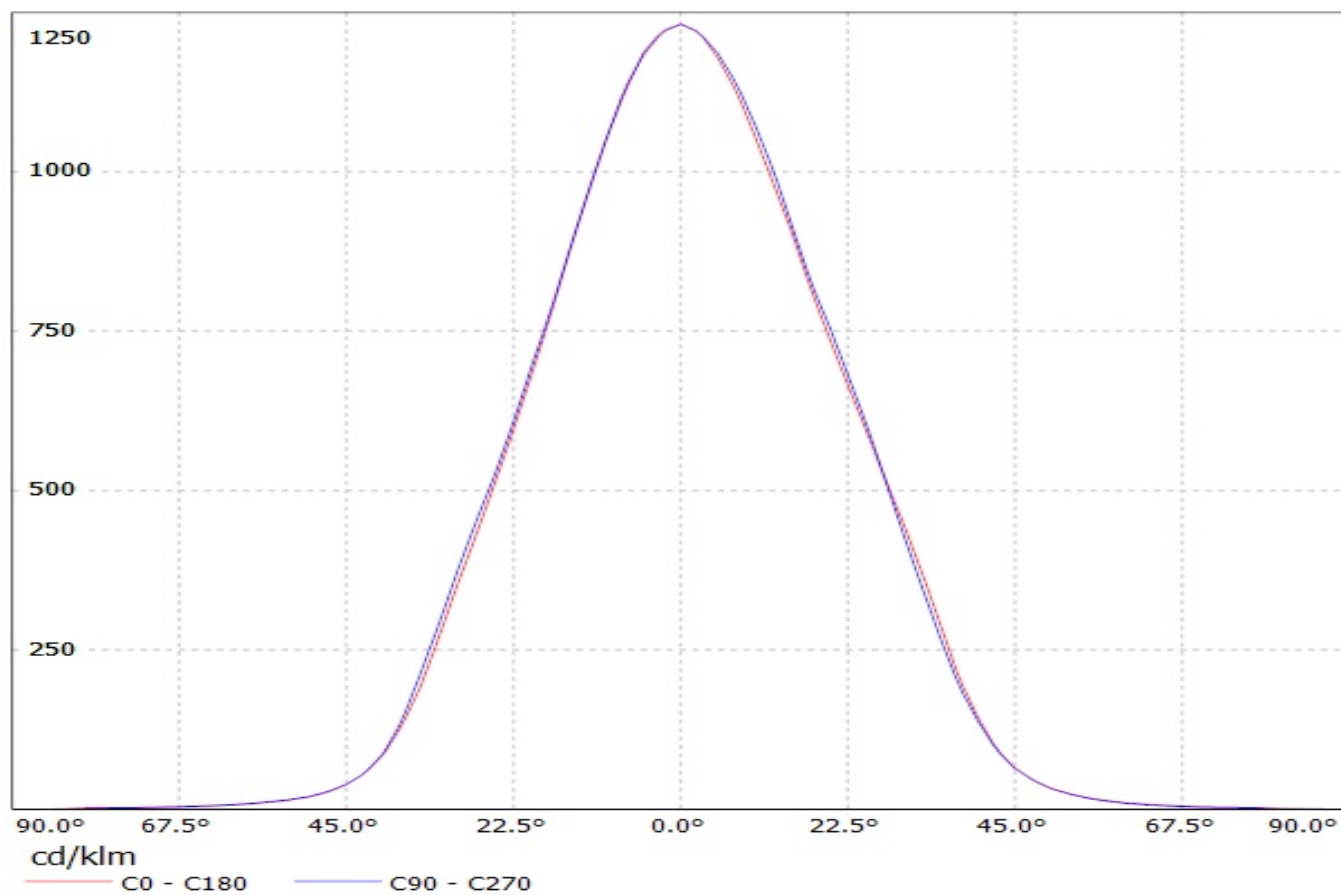
Luminaire: LEDiL Oy CN12485\_MIRELLA-50-W-DL\_(CLU700)  
Lamps: 1 x CITIZEN\_CLU700\_(CLU700-100-2B8-273M2G1)\_380.605lm@250mA\_P=2.8002W\_I=0.1001A



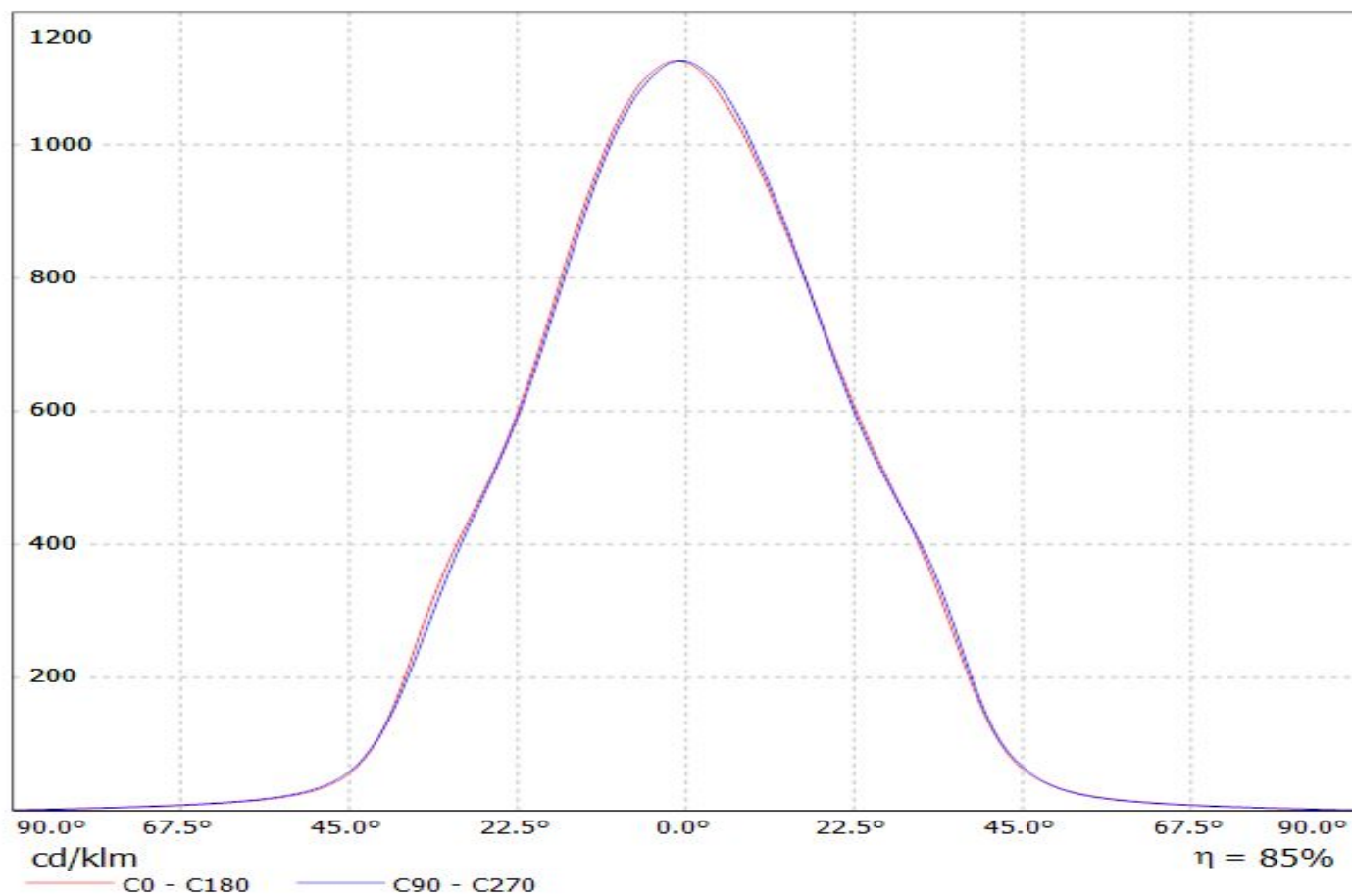
Luminaire: Ledil Oy CN12485\_MIRELLA-50-W-DL (NSBxL066A 930lm @ 250mA) Efficiency=83%  
Lamps: 1 x NSBxL066A 930lm @ 250mA (NSBLL066AE) CCT=3536K P=7,75W I=250mA



Luminaire: LEDil Oy CN12485\_MIRELLA-50-W-DL\_(ZC6) Efficiency=81%  
Lamps: 1 x Seoul ZC6 (SDW81F1C) 422lm @ 100mA CCT=3100K P=3.4W I=100mA

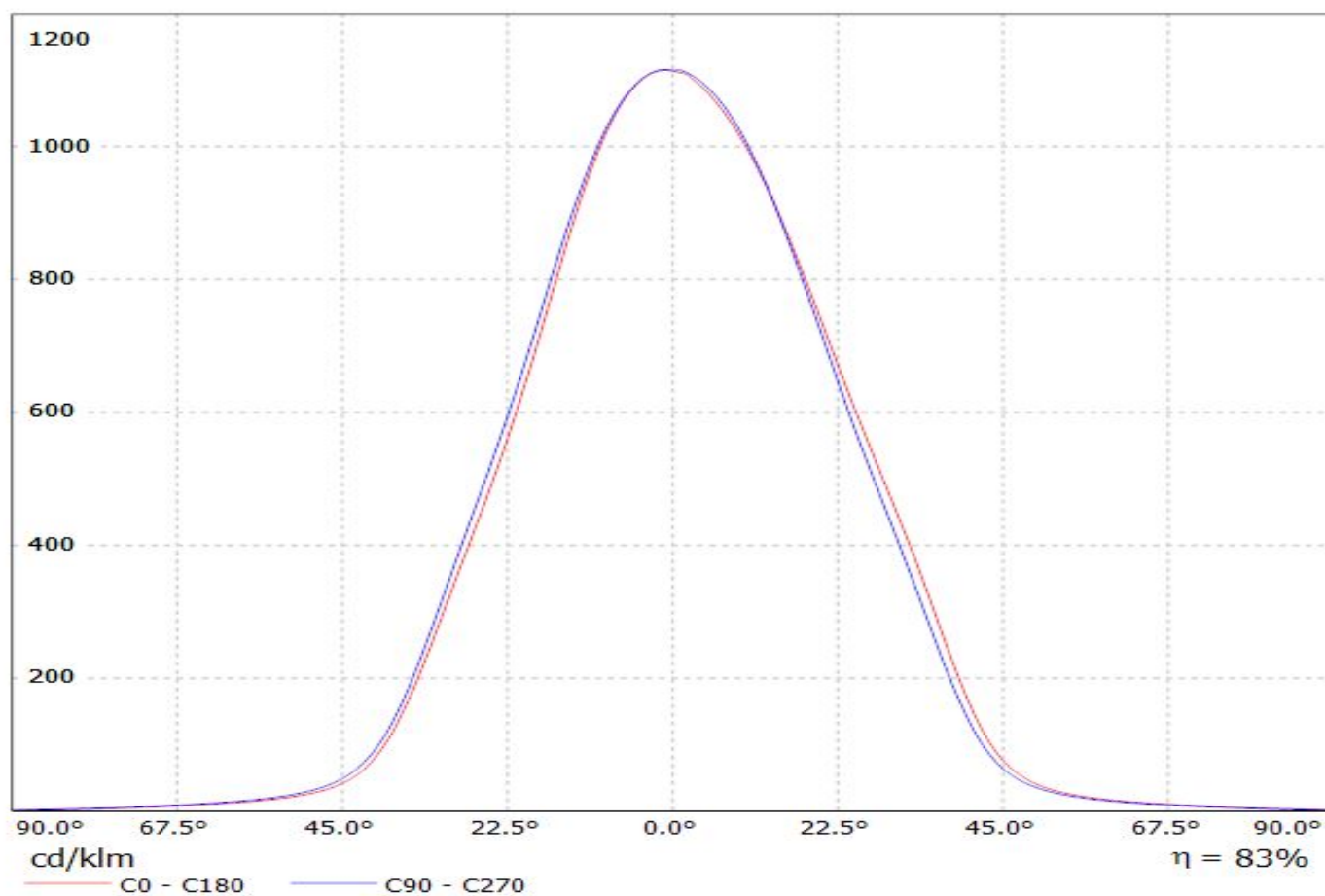


Luminaire: LEDiL Oy CN12485\_MIRELLA-50-W-DL\_(CREE\_XHP50\_WARM\_WHITE)  
Lamps: 1 x CREE\_XHP50\_WARM\_WHITE\_194.925lm@250mA\_P=1.39897W\_I=0.2499A



Luminaire: LEDiL Oy CN12485\_MIRELLA-50-W-DL\_(CXM-9)

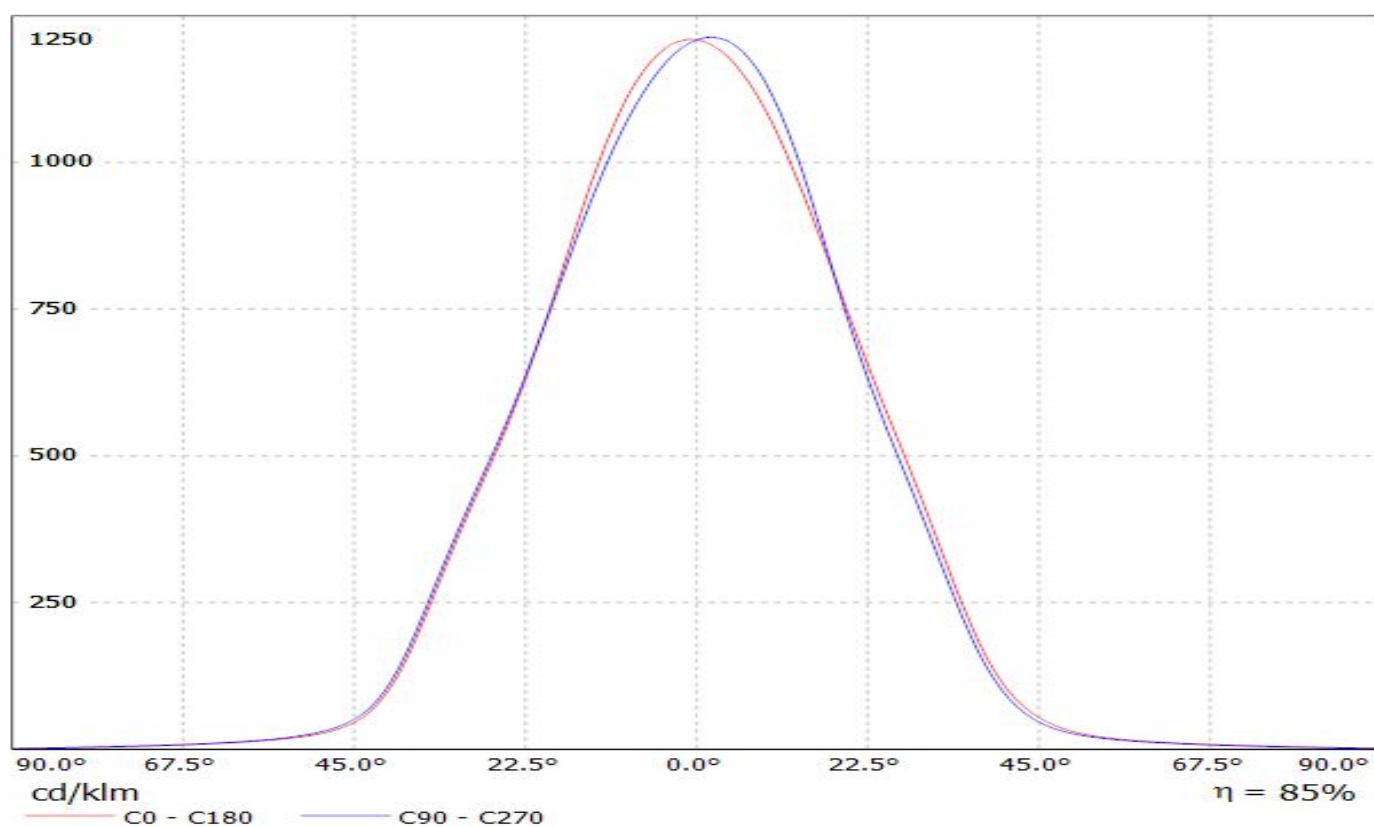
Lamps: 1 x Luminus\_XNOVA\_CXM-9\_(AA00)\_974.083lm@240mA\_P=8.27544W\_I=240mA



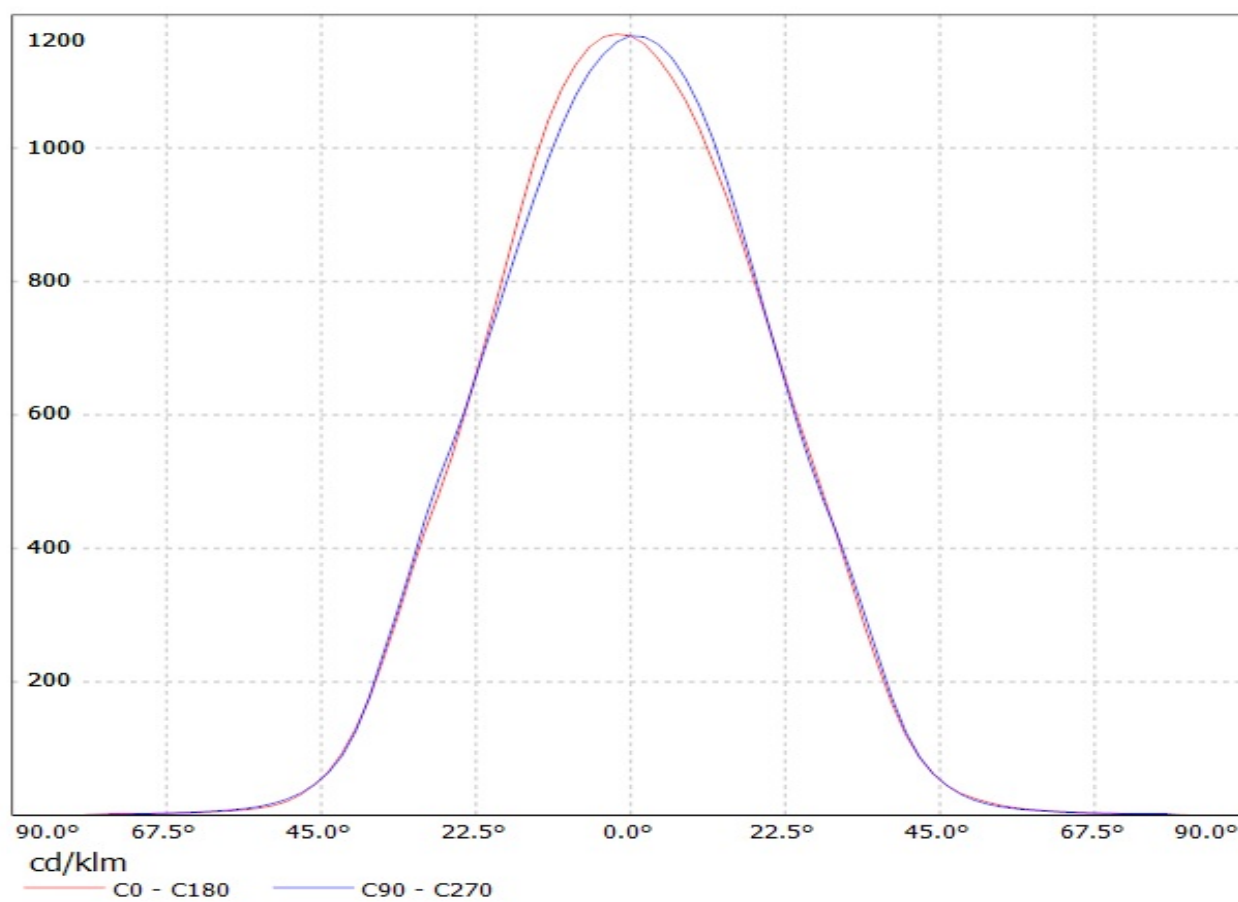
## LEDiL Oy CN12485\_MIRELLA-50-W-DL\_(CXA1507) Eff.84.8% / LDC (Linear)

Luminaire: LEDiL Oy CN12485\_MIRELLA-50-W-DL\_(CXA1507) Eff.84.8%

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

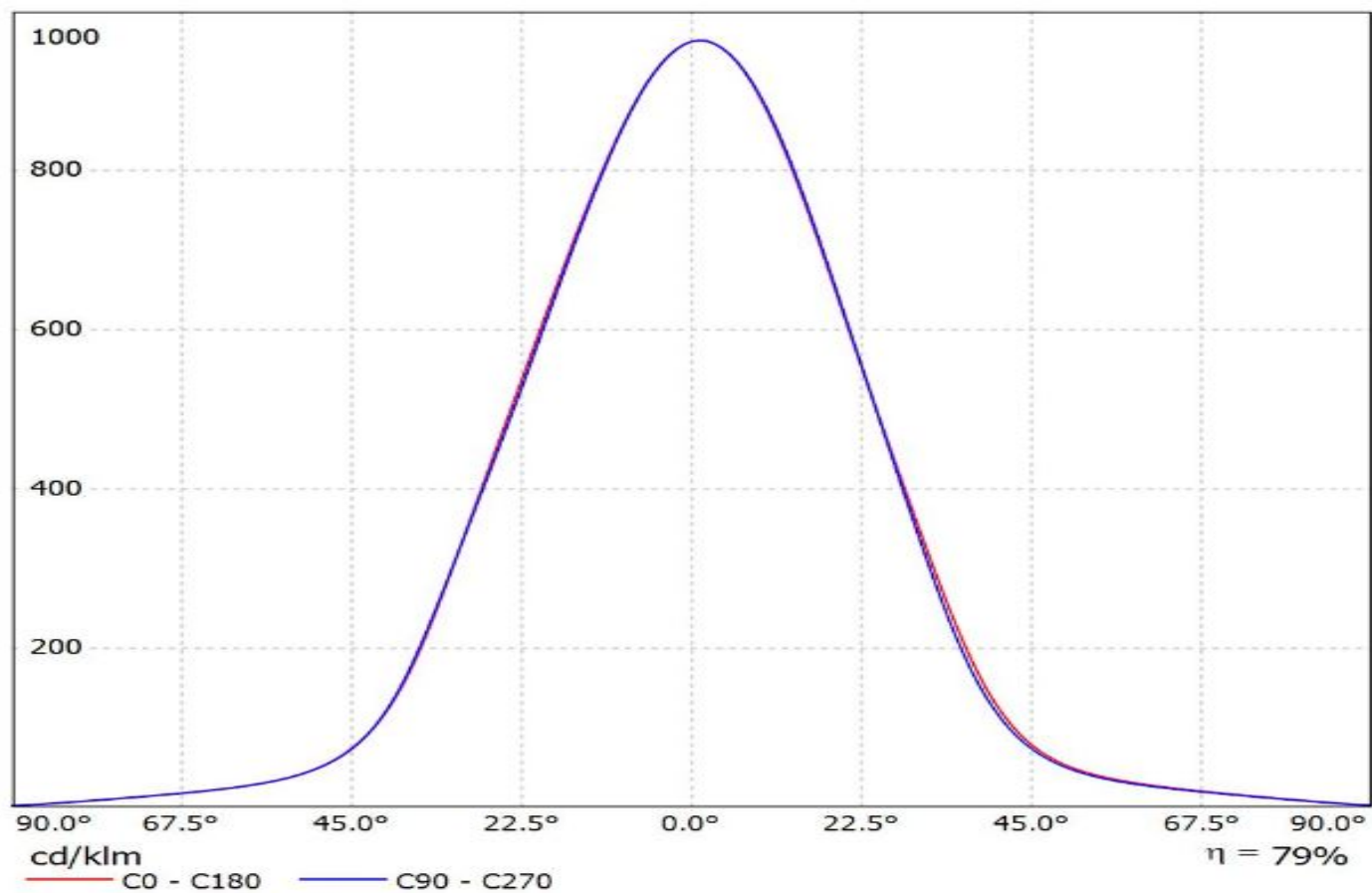


Luminaire: Ledil Oy CN12485\_MIRELLA-50-W-DL\_(Luxeon\_CoB\_1203) Efficiency=84%  
Lamps: 1 x Luxeon Cob 1203 (LHC1-3080-1203) 824lm @ 250mA CCT=3000K P=8.7W I=250mA

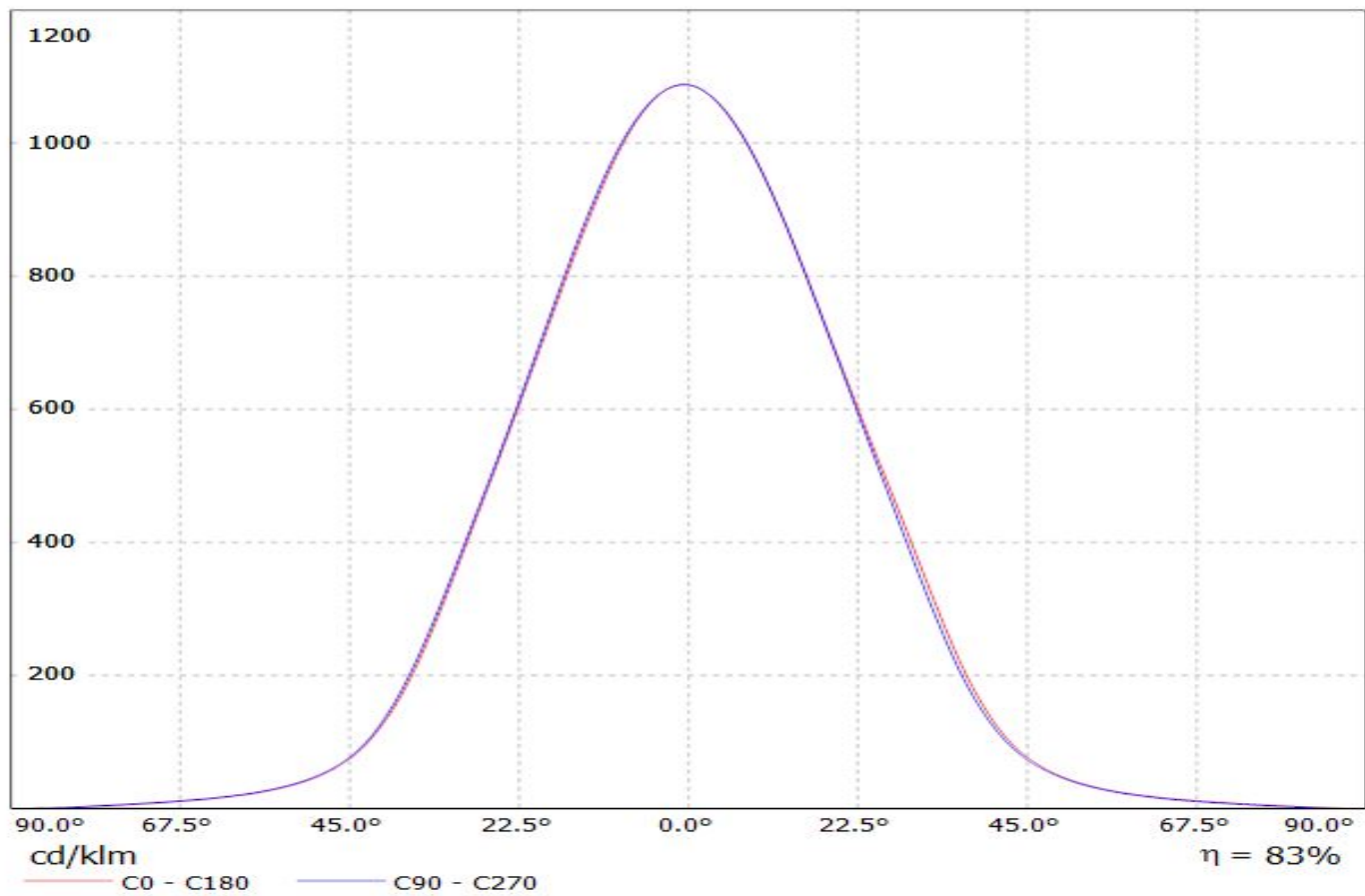


Luminaire: Ledil CN12485\_MIRELLA-50-W-DL\_(CLU710)

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



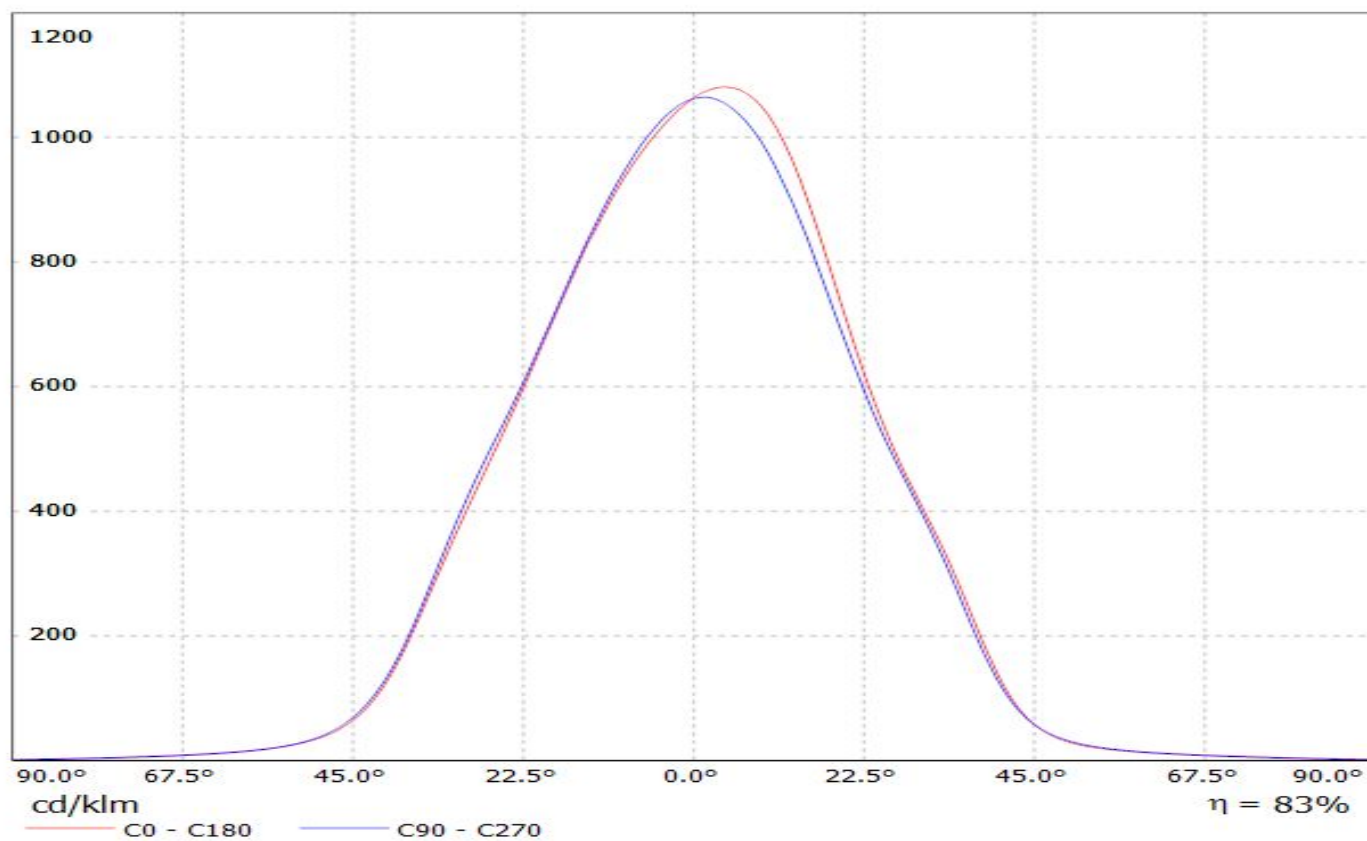
Luminaire: Ledil Oy  
Lamps: 1 x CN12485\_MIRELLA-50-W-DL\_(CLL028)



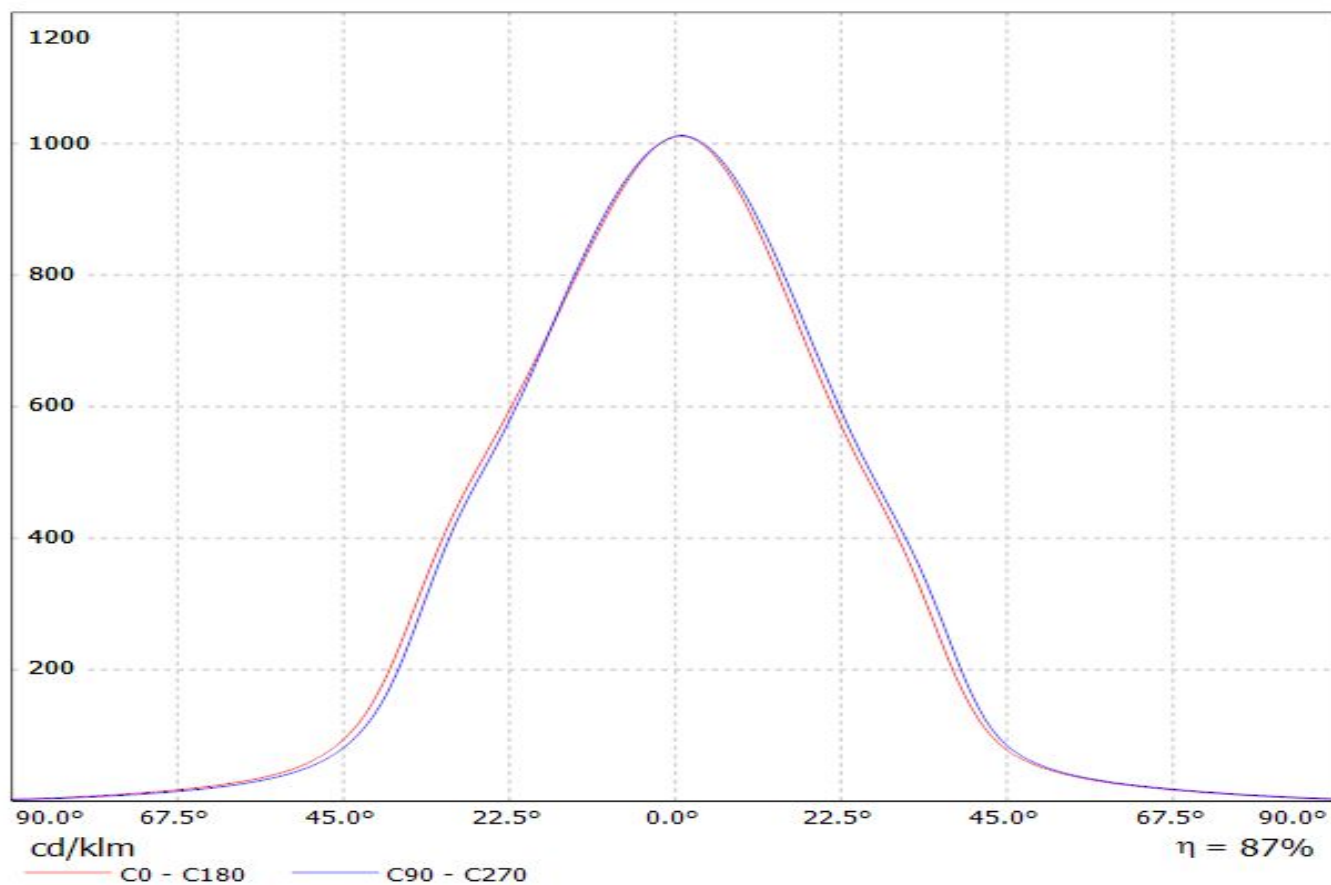
## LEDiL Oy CN12485\_MIRELLA-50-W-DL\_(MT-G2) Eff.83.2% / LDC (Linear)

Luminaire: LEDiL Oy CN12485\_MIRELLA-50-W-DL\_(MT-G2) Eff.83.2%

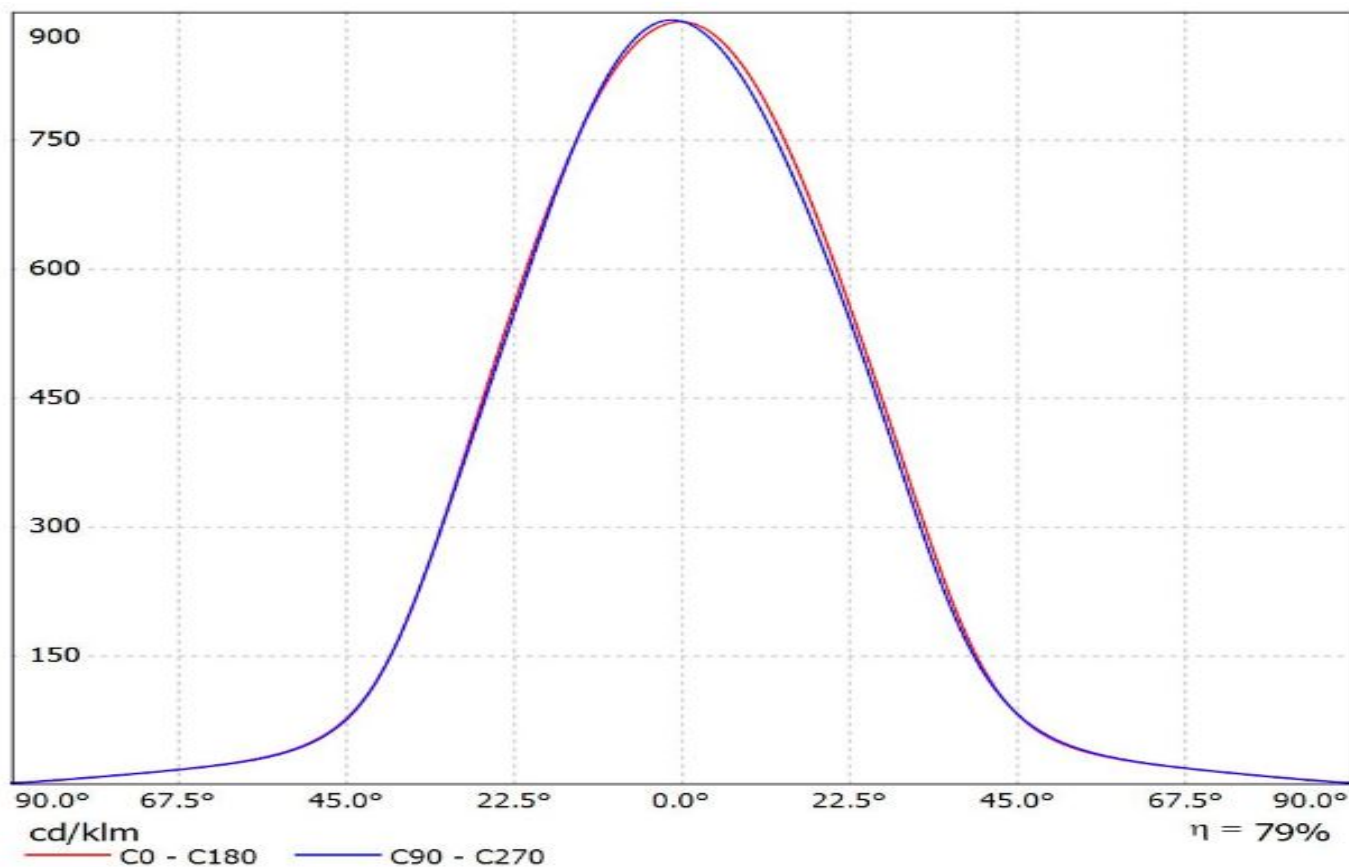
Lamps: 1 x MT-G2 (170lm@250mA)



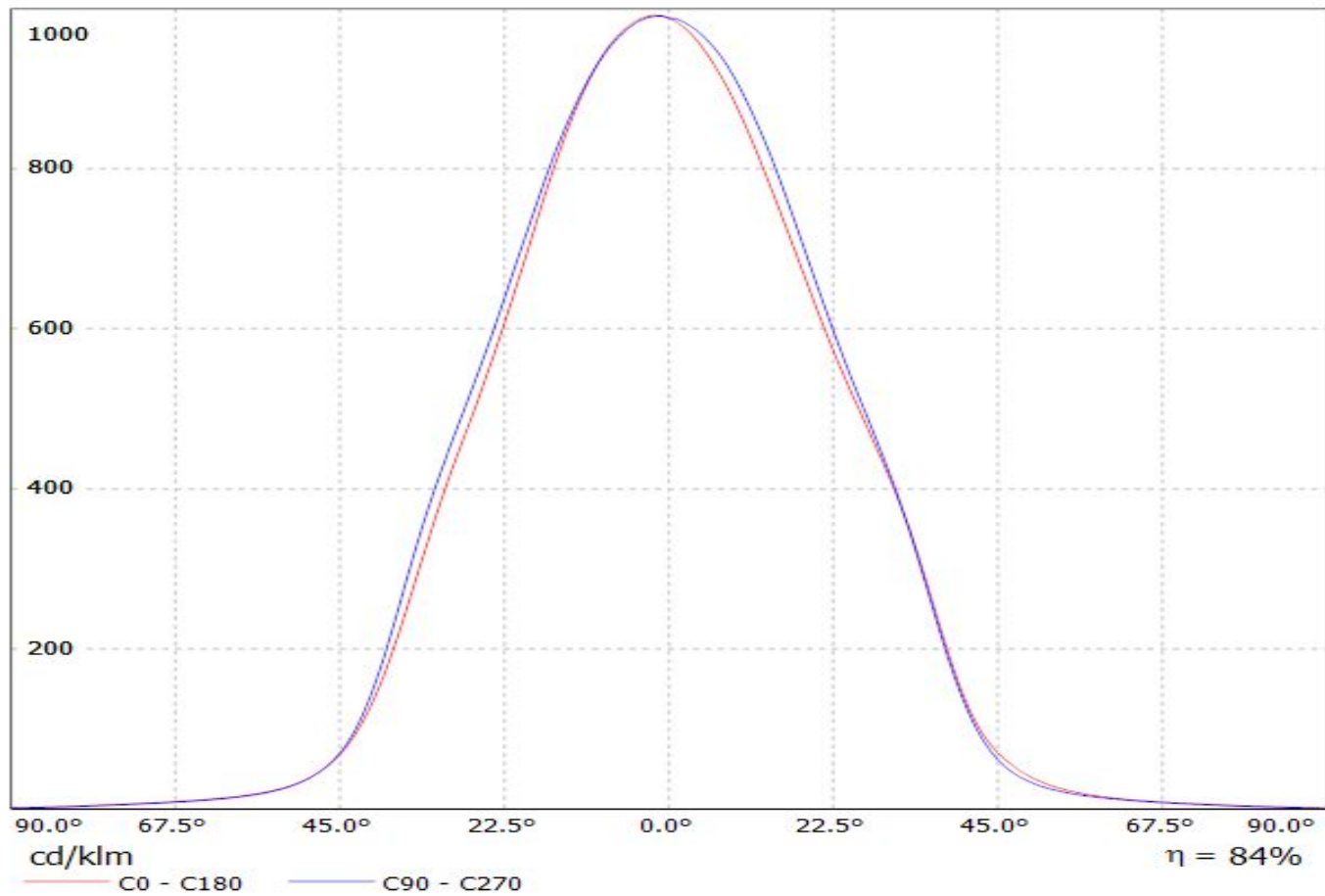
Luminaire: Ledil CN12485\_MIRELLA-50-W-DL\_(MHD-G)  
Lamps: 1 x Cree MHD-G\_528.649lm@100mA\_P=3.0W\_I=0.100A



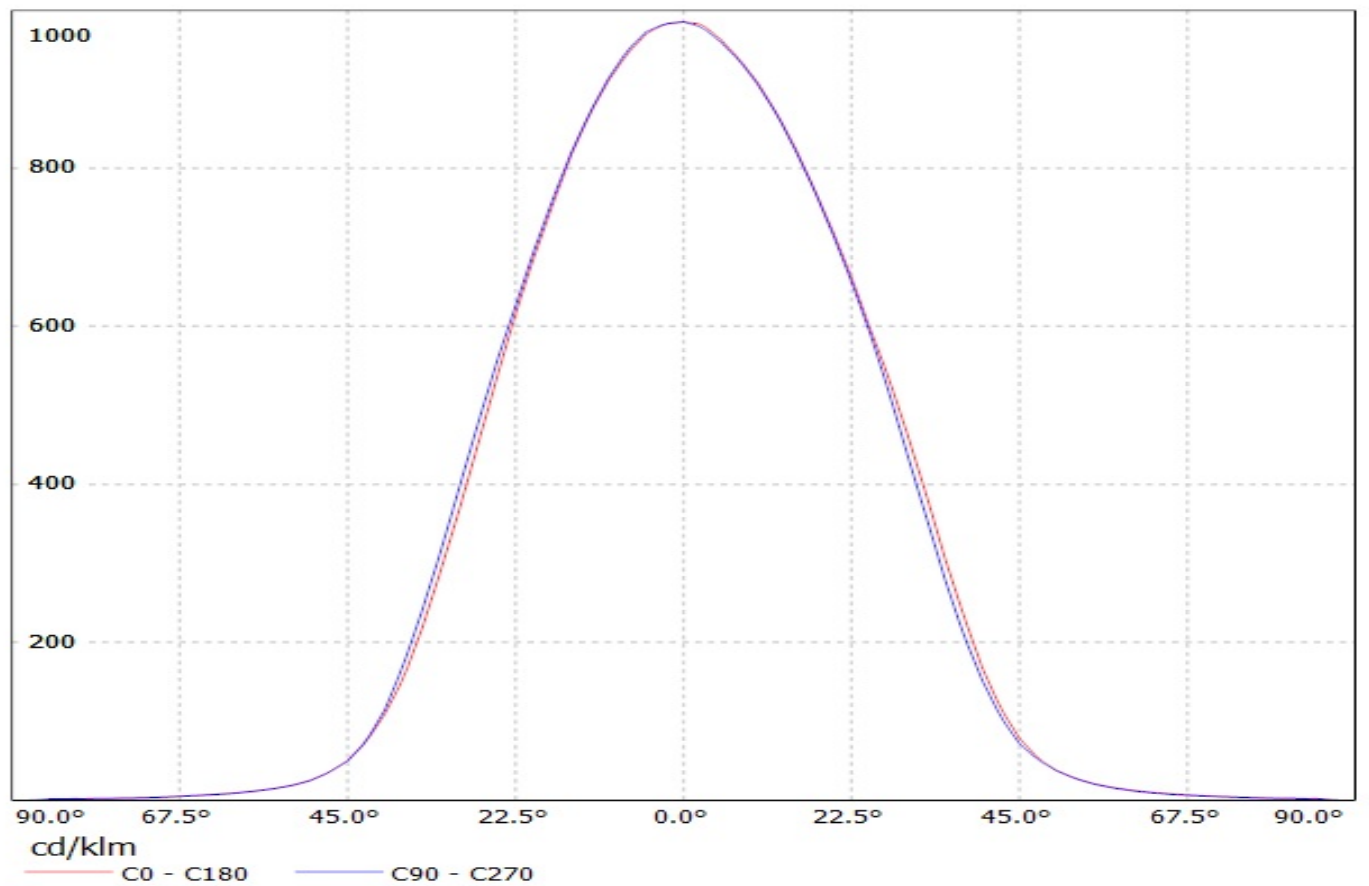
Luminaire: Ledil CN12485\_MIRELLA-50-W-DL\_(CLU720)  
Lamps: 1 x CITIZEN\_CLU720\_(CLU720-1206B8-273M2)  
\_1298.17lm@250mA\_CCT=2700K\_P=8.3W\_I=0.25A



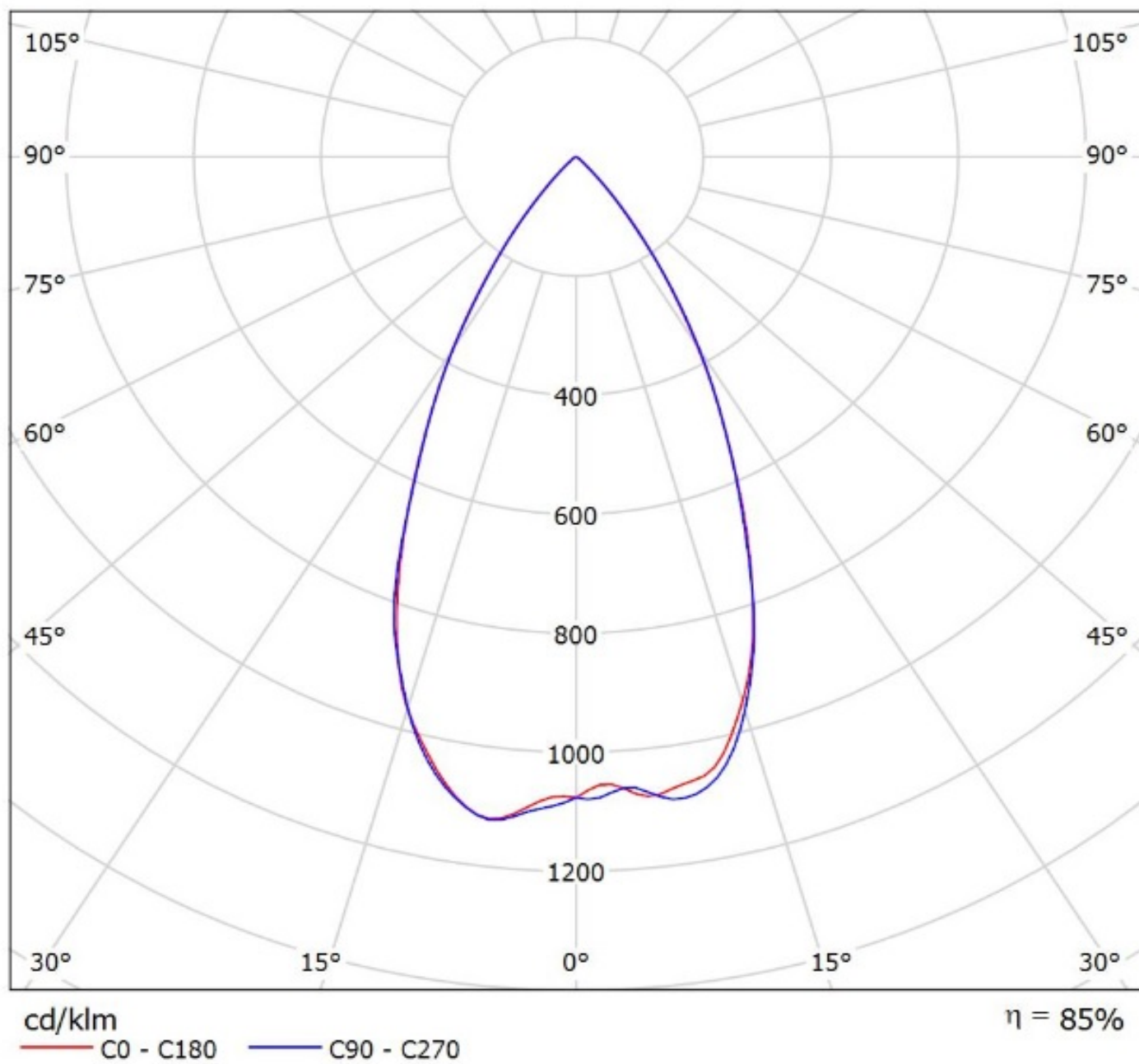
Luminaire: LEDiL Oy CN12485\_MIRELLA-50-W-DL\_(Cree\_XHP70)  
Lamps: 1 x Cree\_XHP70\_258.083lm@250mA\_P=1.38117W\_I=0.2499A



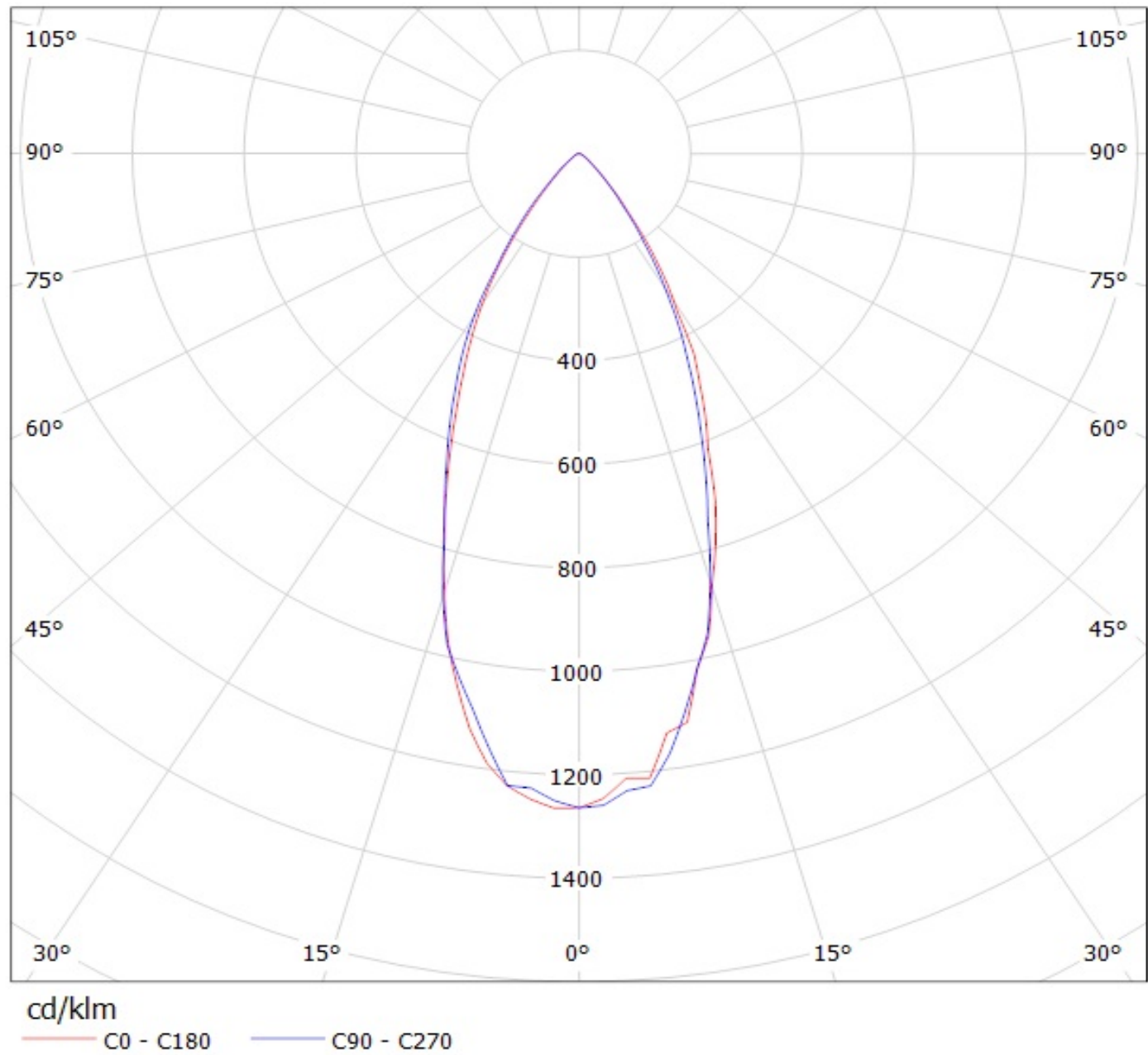
Luminaire: LEDil Oy CN12485\_MIRELLA-50-W-DL\_(Soleriq-S13) Efficiency=81%  
Lamps: 1 x Osram Soleriq S13 (GW KAGHB1.EM) 832lm @ 250mA CCT=3100K P=7.4W I=250mA



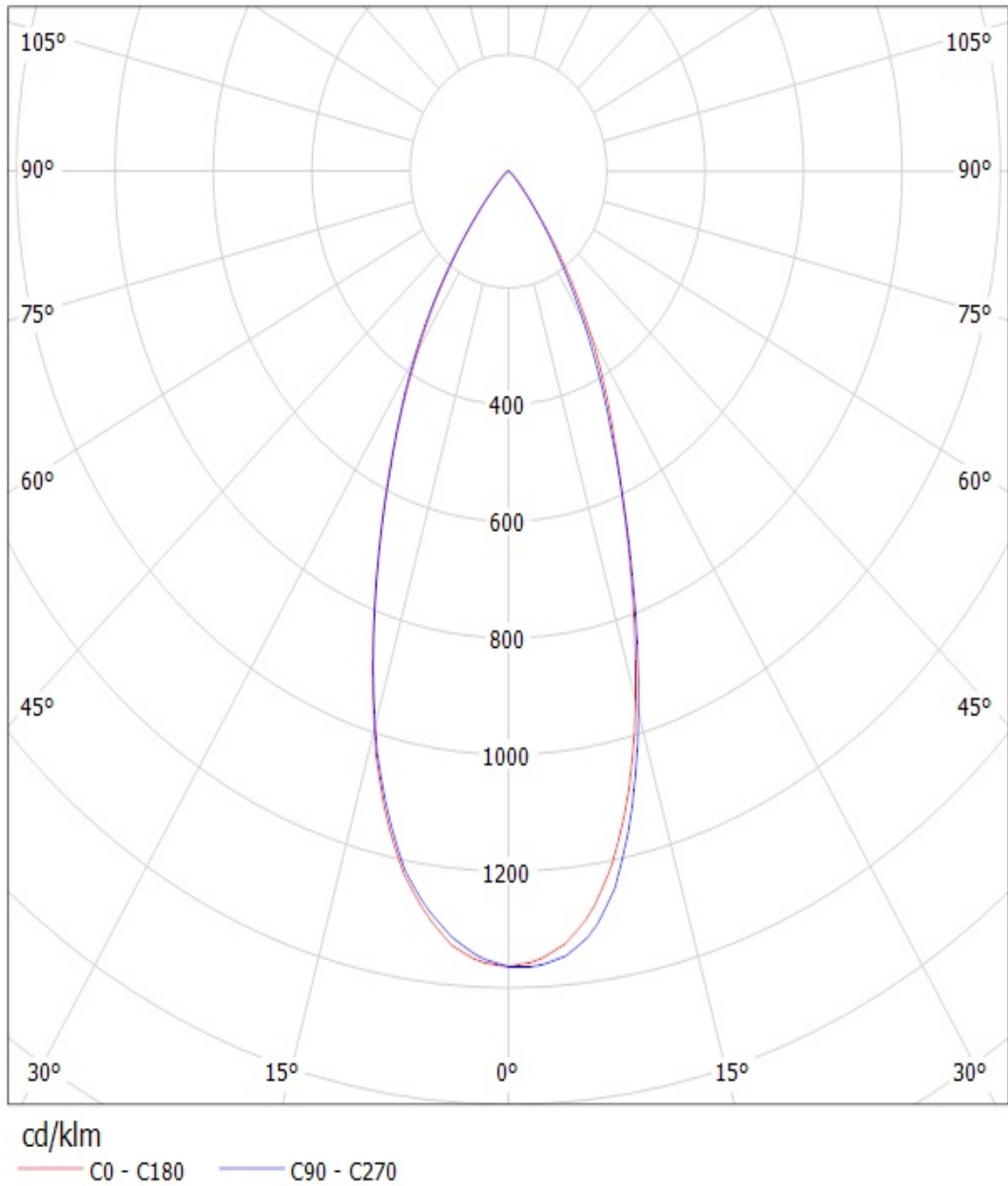
Luminaire: Ledil Oy CN12485\_MIRELLA-50-W-DL\_(Soleriq\_S9)\_SIMULATED  
Lamps: 1 x Osram Soleriq S9 (GW KAJFB3.EM)



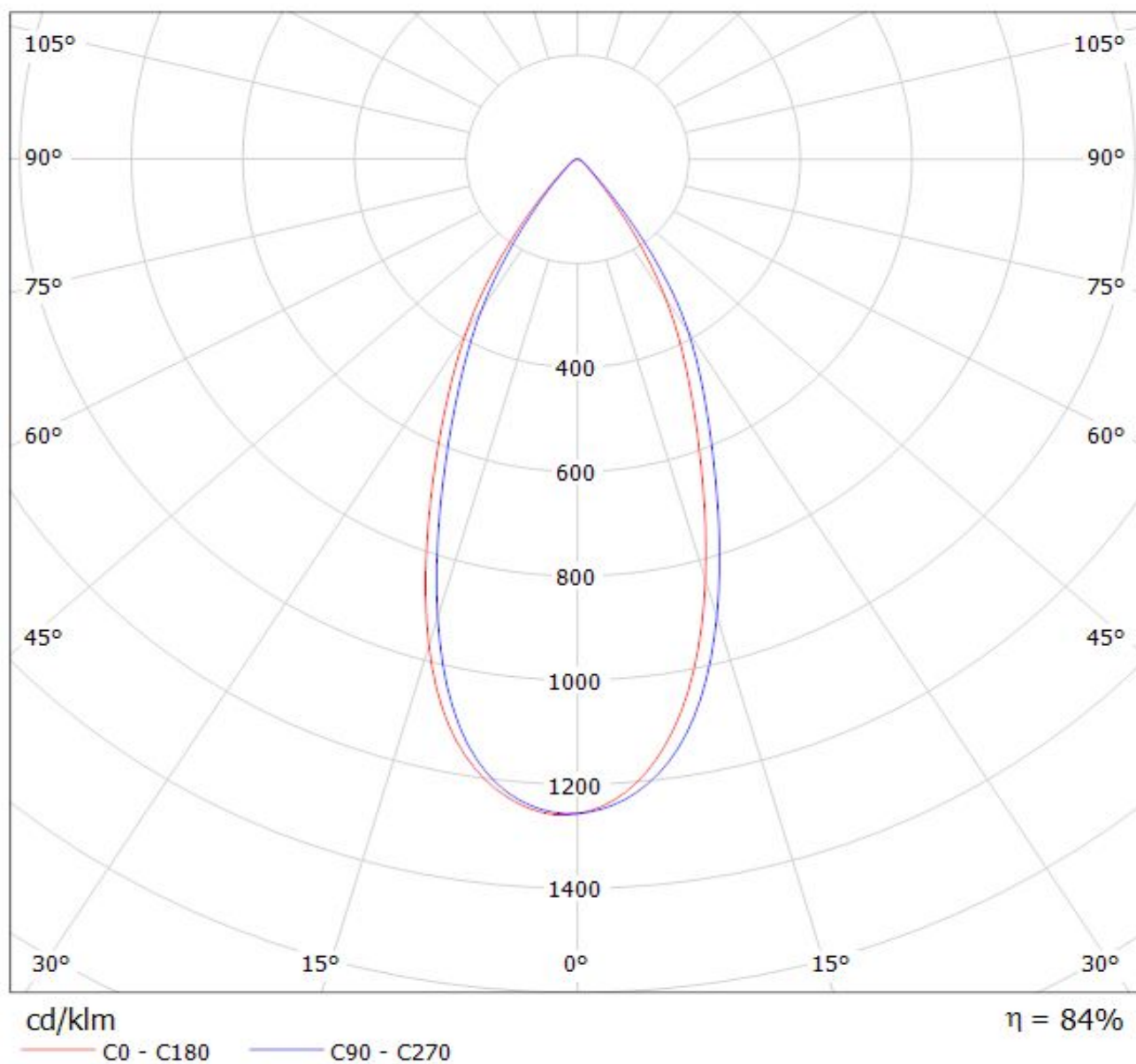
Luminaire: Ledil Oy CN12485\_MIRELLA-50-W-DL (Bridgelux LS 170lm @ 250mA) Efficiency=82%  
Lamps: 1 x Bridgelux LS 170lm @ 250mA



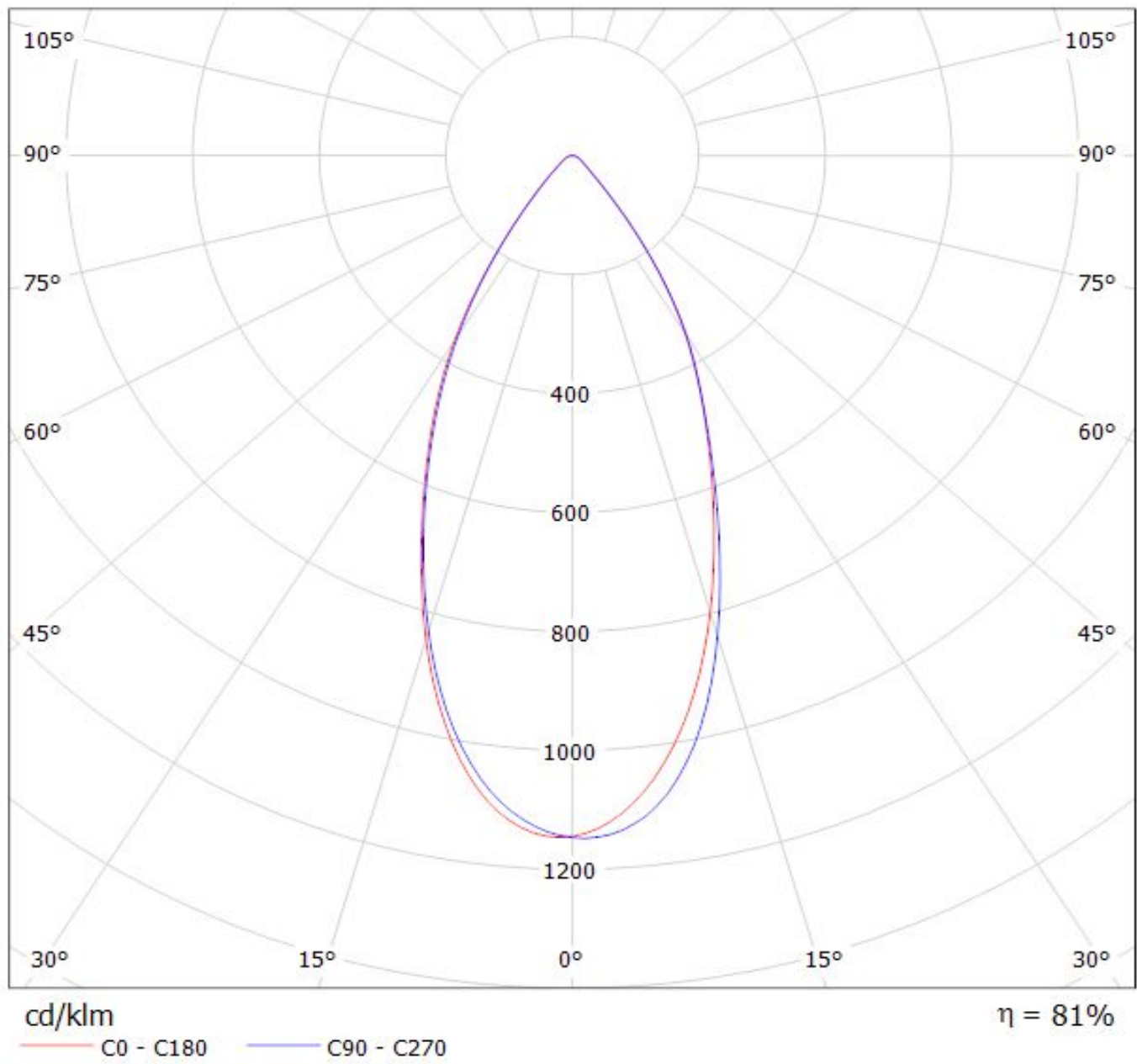
Luminaire: LEDil Oy CN12485\_MIRELLA-50-W-DL\_(Stark\_SLE\_G3\_LES10) Efficiency=82%  
Lamps: 1 x Tridonic Stark SLE G3 LES10 (STARK-SLE-PURE-G3-10-1000-830-CLA) 453lm @ 250mA CCT=3000K P=4.3W I=250mA



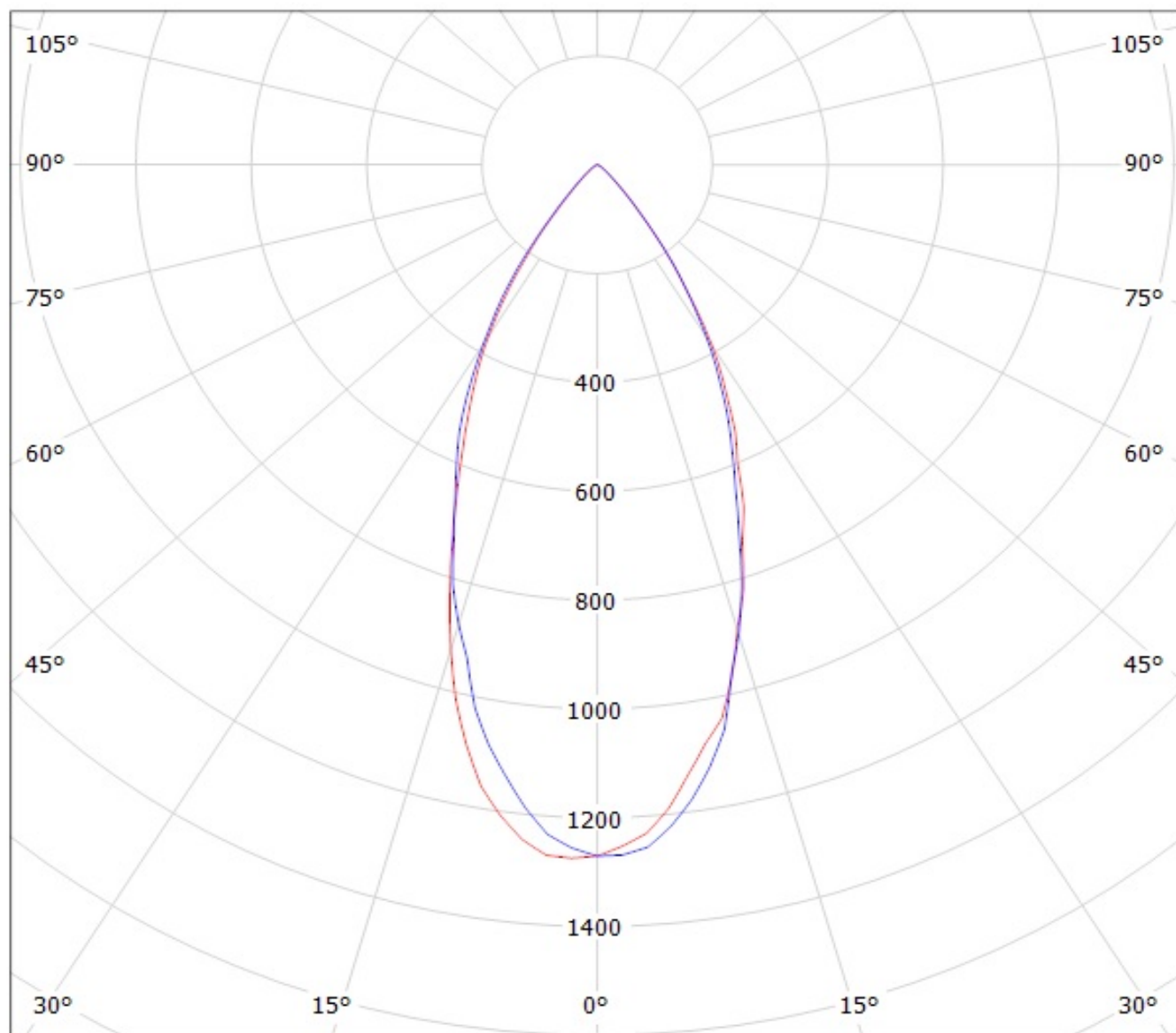
Luminaire: LEDIL OY CN12485\_MIRELLA-50-W-DL\_(MiniZenigata) Eff.83.6%  
Lamps: 1 x Mini Zenigata (387.5lm@250mA)



Luminaire: LEDiL Oy CN12485\_MIRELLA-50-W-DL\_(Mini\_Zenigata) Eff.81.2%  
Lamps: 1 x Mini\_Zenigata GW6BM (803.772lm@250mA)



Luminaire: Ledil Oy CN12485\_MIRELLA-50-W-DL (Nichia NSCxL036A 434lm @ 100mA) Efficiency=83%  
Lamps: 1 x Nichia NSCxL036A 434lm @ 100mA (NSCLL036A) CCT=3000K P=3,4W I=100mA



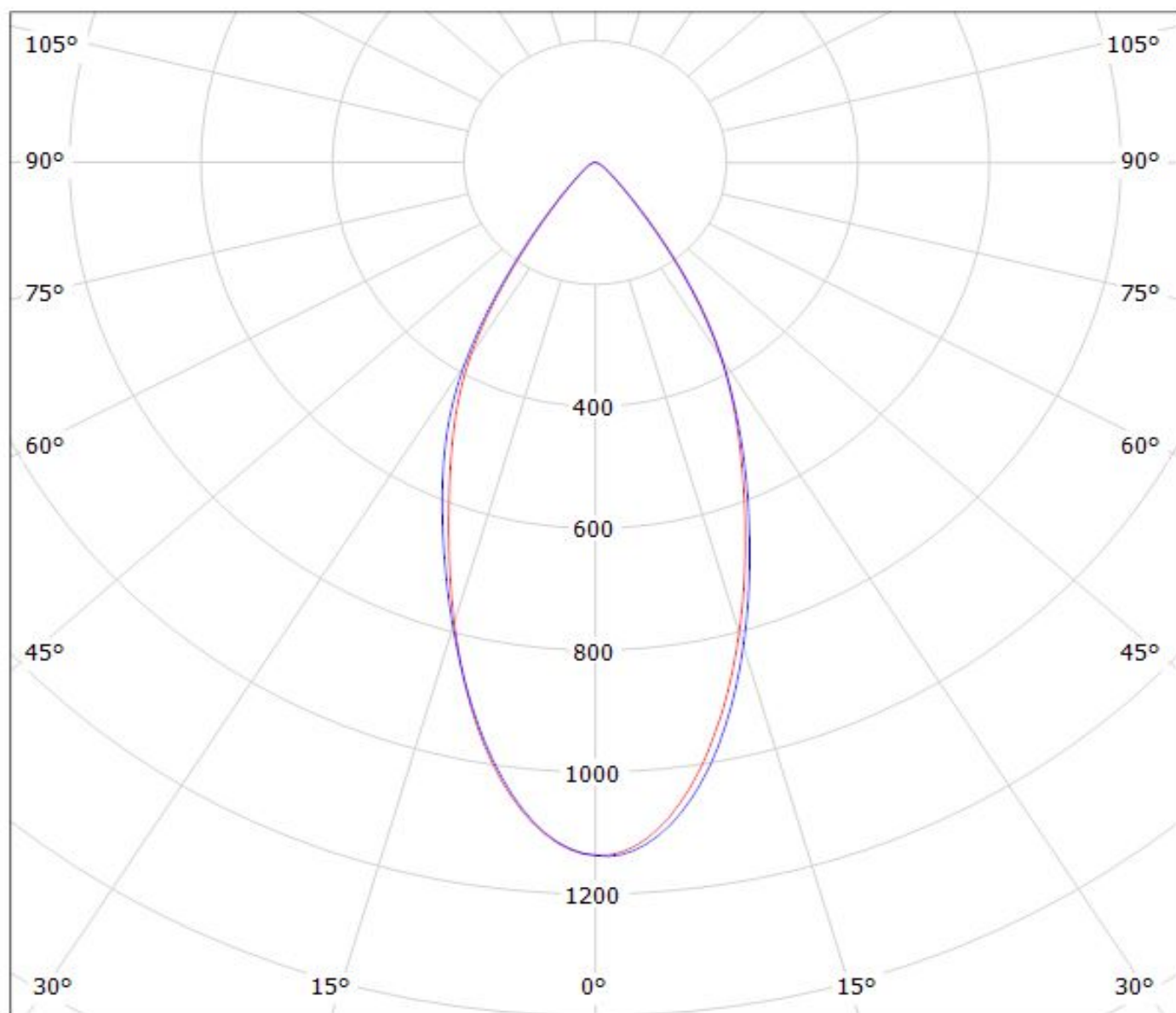
cd/klm

— C0 - C180

— C90 - C270

Luminaire: LEDiL Oy CN12485\_MIRELLA-50-W-DL\_(CLU700)

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



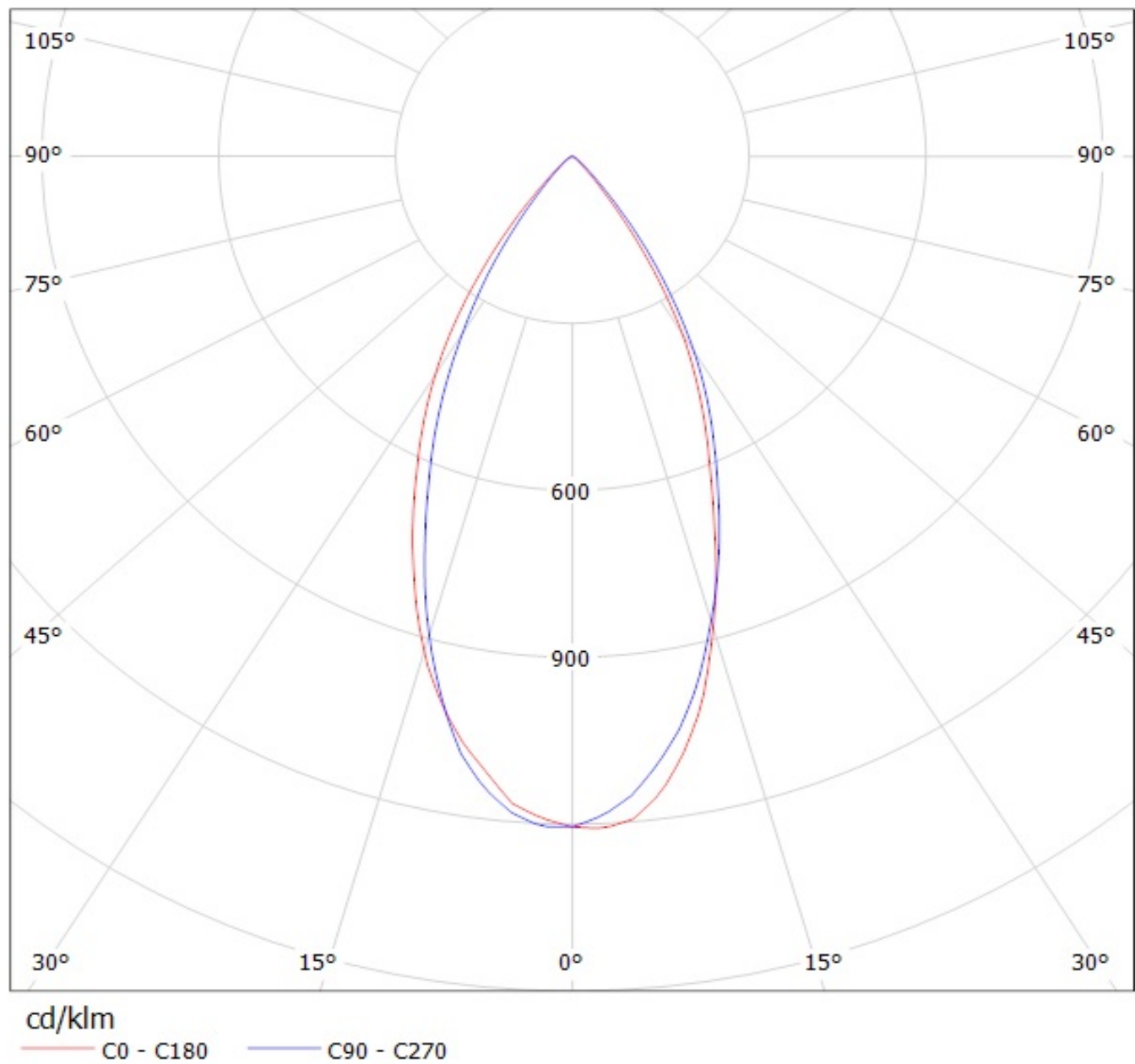
cd/klm

$\eta = 82\%$

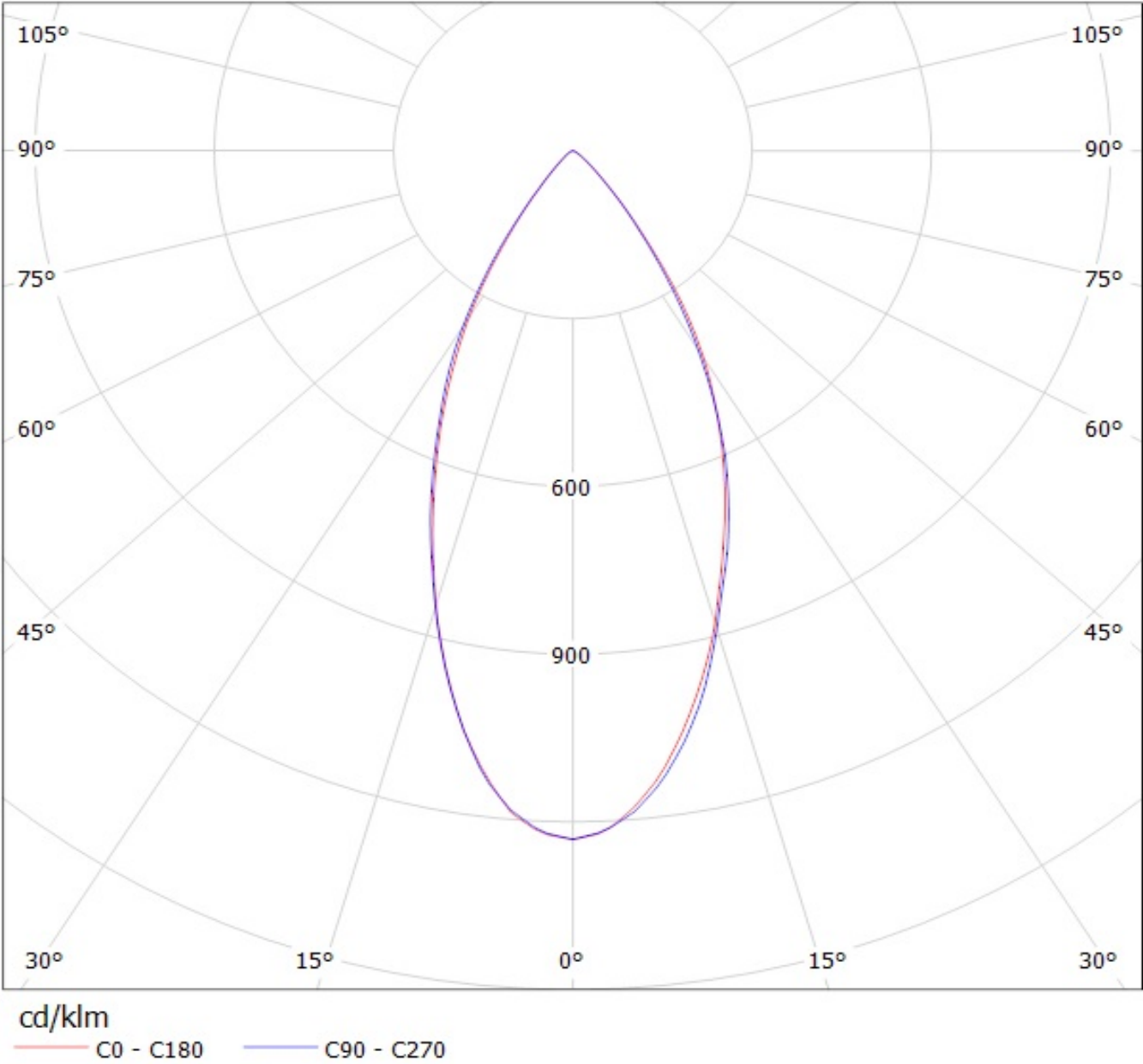
— C0 - C180

— C90 - C270

Luminaire: Ledil Oy CN12485\_MIRELLA-50-W-DL (NSBxL066A 930lm @ 250mA) Efficiency=83%  
Lamps: 1 x NSBxL066A 930lm @ 250mA (NSBLL066AE) CCT=3536K P=7,75W I=250mA

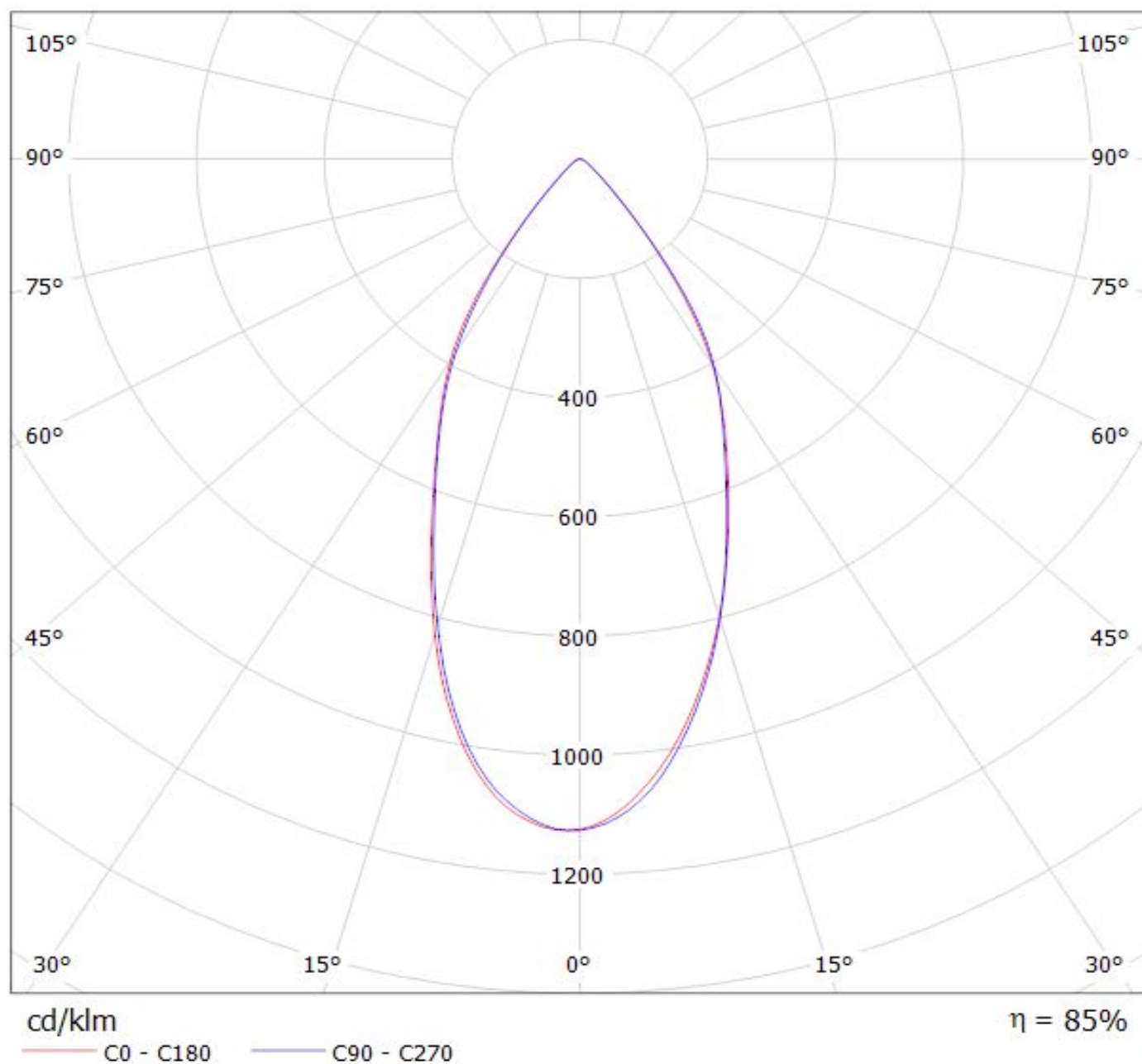


Luminaire: LEDil Oy CN12485\_MIRELLA-50-W-DL\_(ZC6) Efficiency=81%  
Lamps: 1 x Seoul ZC6 (SDW81F1C) 422lm @ 100mA CCT=3100K P=3.4W I=100mA



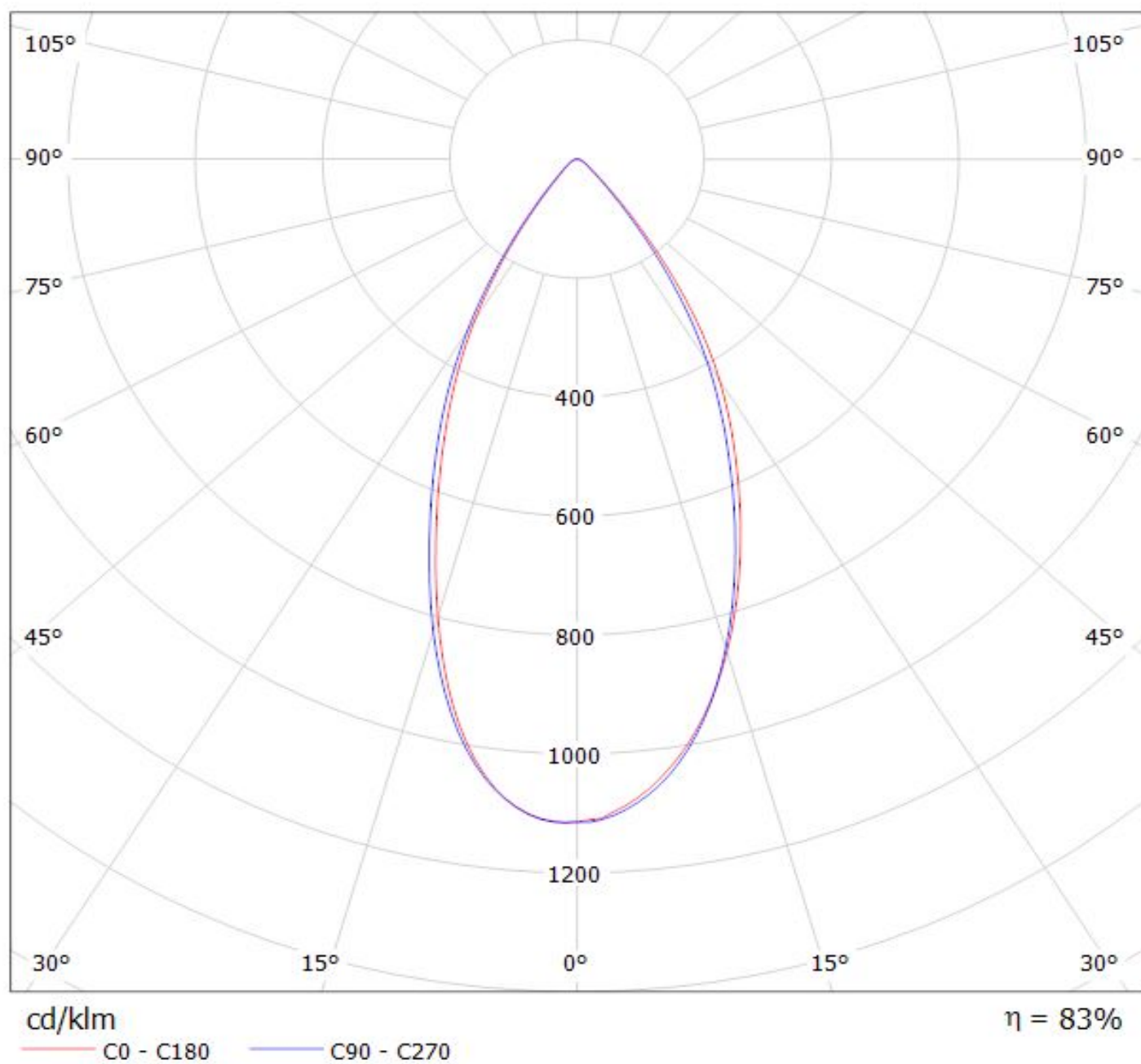
Luminaire: LEDiL Oy CN12485\_MIRELLA-50-W-DL\_(CREE\_XHP50\_WARM\_WHITE)

Lamps: 1 x CREE\_XHP50\_WARM\_WHITE\_194.925lm@250mA\_P=1.39897W\_I=0.2499A



Luminaire: LEDiL Oy CN12485\_MIRELLA-50-W-DL\_(CXM-9)

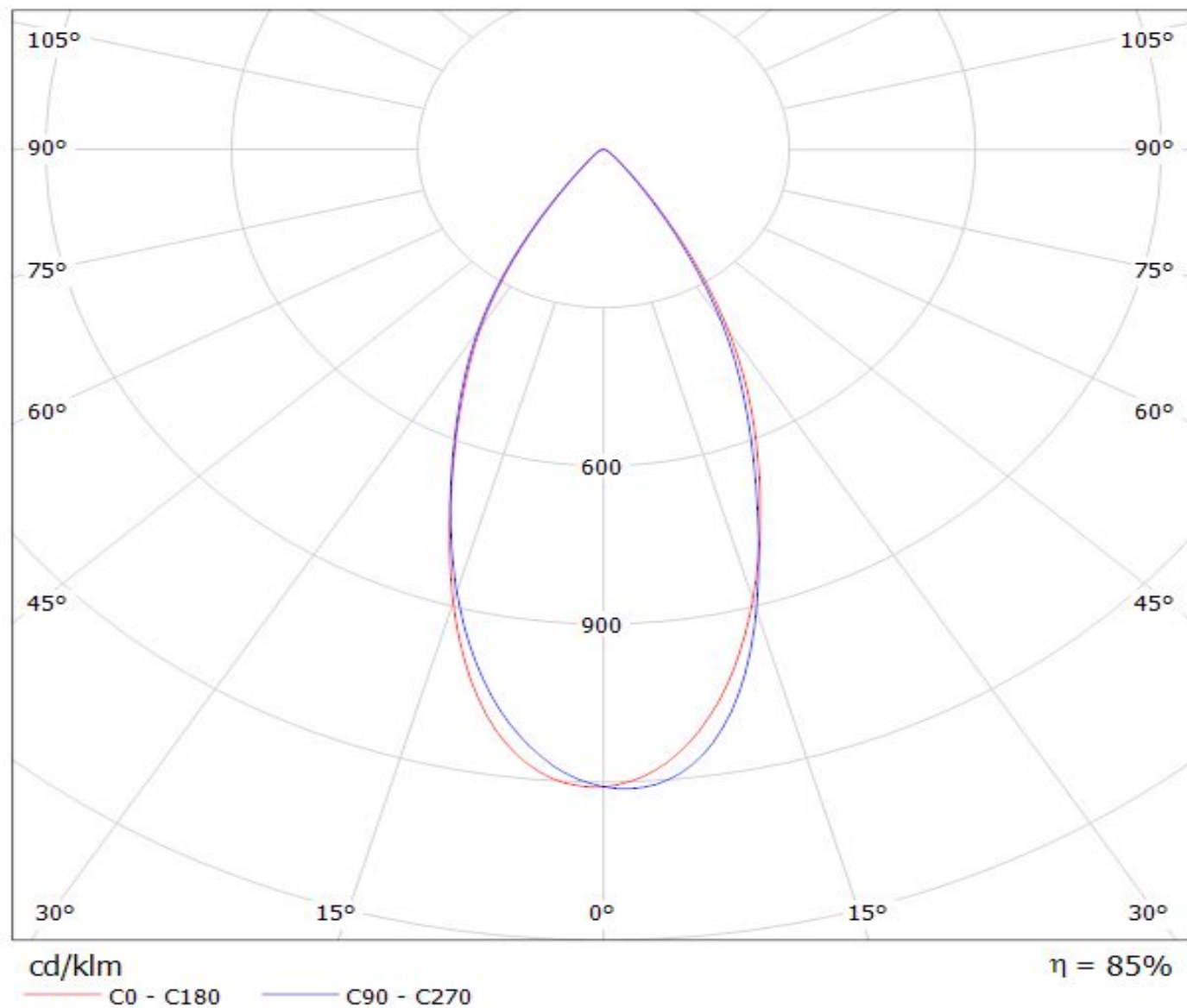
Lamps: 1 x Luminus\_XNOVA\_CXM-9\_(AA00)\_974.083lm@240mA\_P=8.27544W\_I=240mA



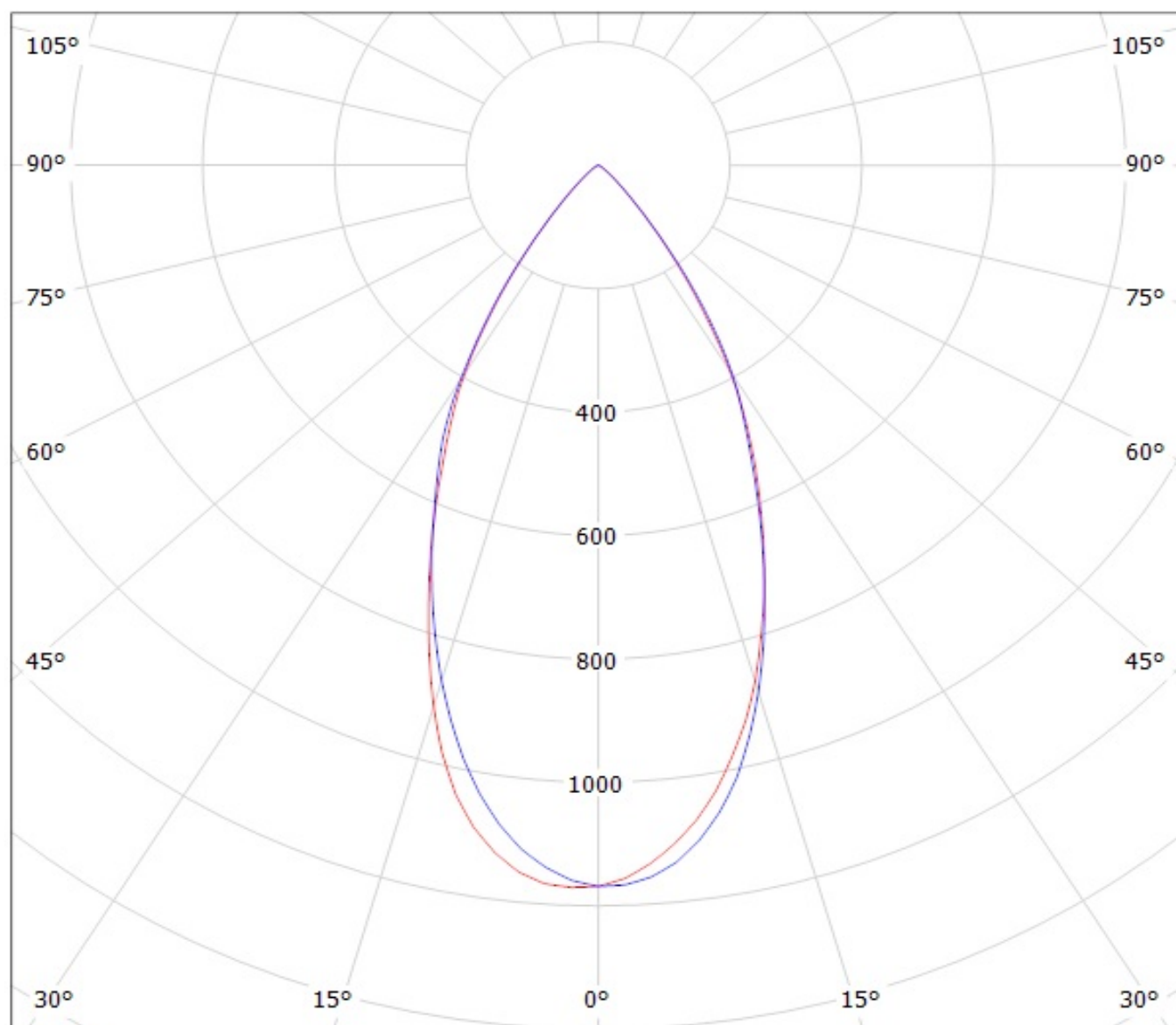
## LEDiL Oy CN12485\_MIRELLA-50-W-DL\_(CXA1507) Eff.84.8% / LDC (Polar)

Luminaire: LEDiL Oy CN12485\_MIRELLA-50-W-DL\_(CXA1507) Eff.84.8%

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



Luminaire: Ledil Oy CN12485\_MIRELLA-50-W-DL\_(Luxeon\_CoB\_1203) Efficiency=84%  
Lamps: 1 x Luxeon Cob 1203 (LHC1-3080-1203) 824lm @ 250mA CCT=3000K P=8.7W I=250mA

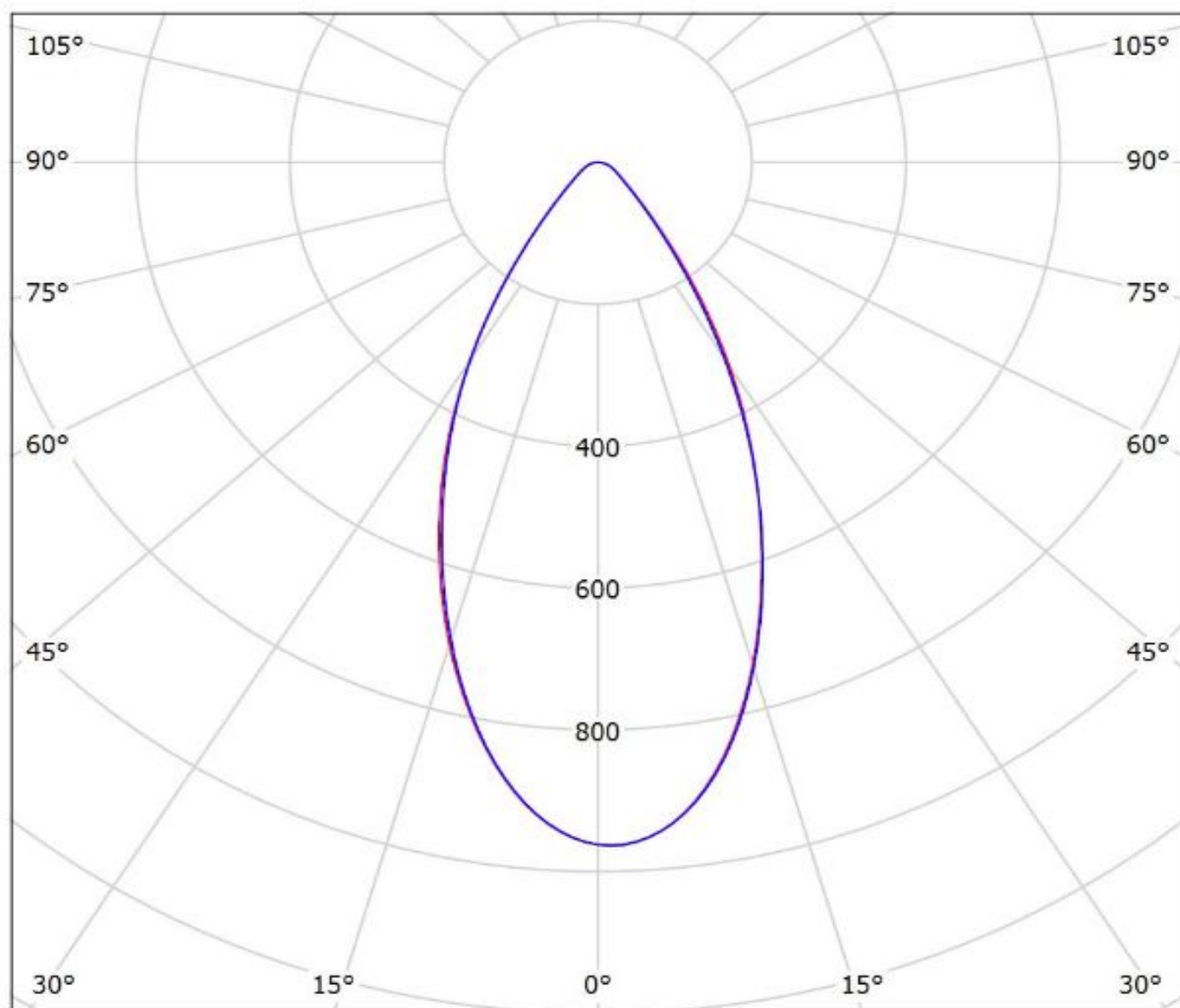


cd/klm

— C0 - C180 — C90 - C270

Luminaire: Ledil CN12485\_MIRELLA-50-W-DL\_(CLU710)

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



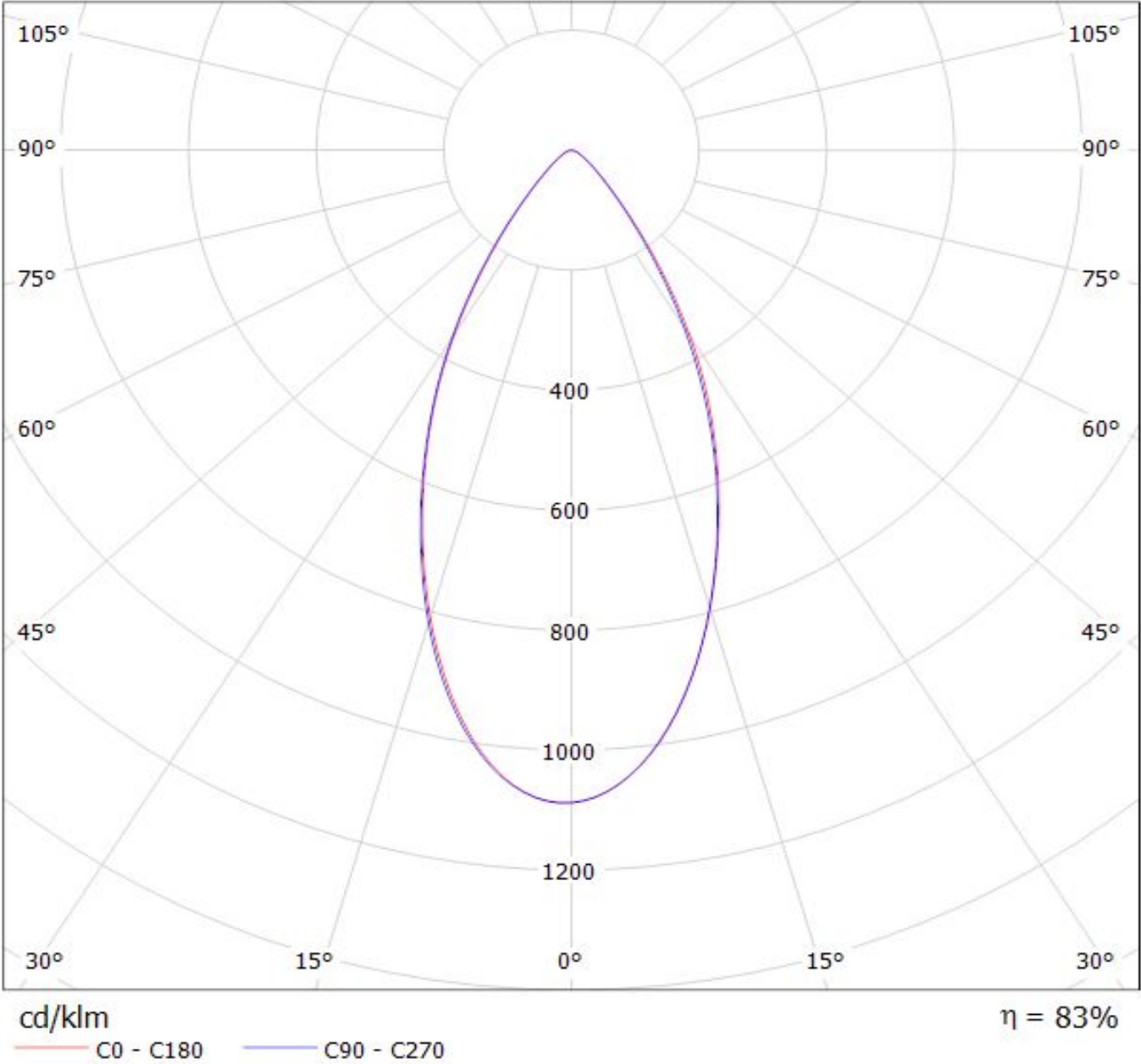
cd/klm

— C0 - C180

— C90 - C270

$\eta = 79\%$

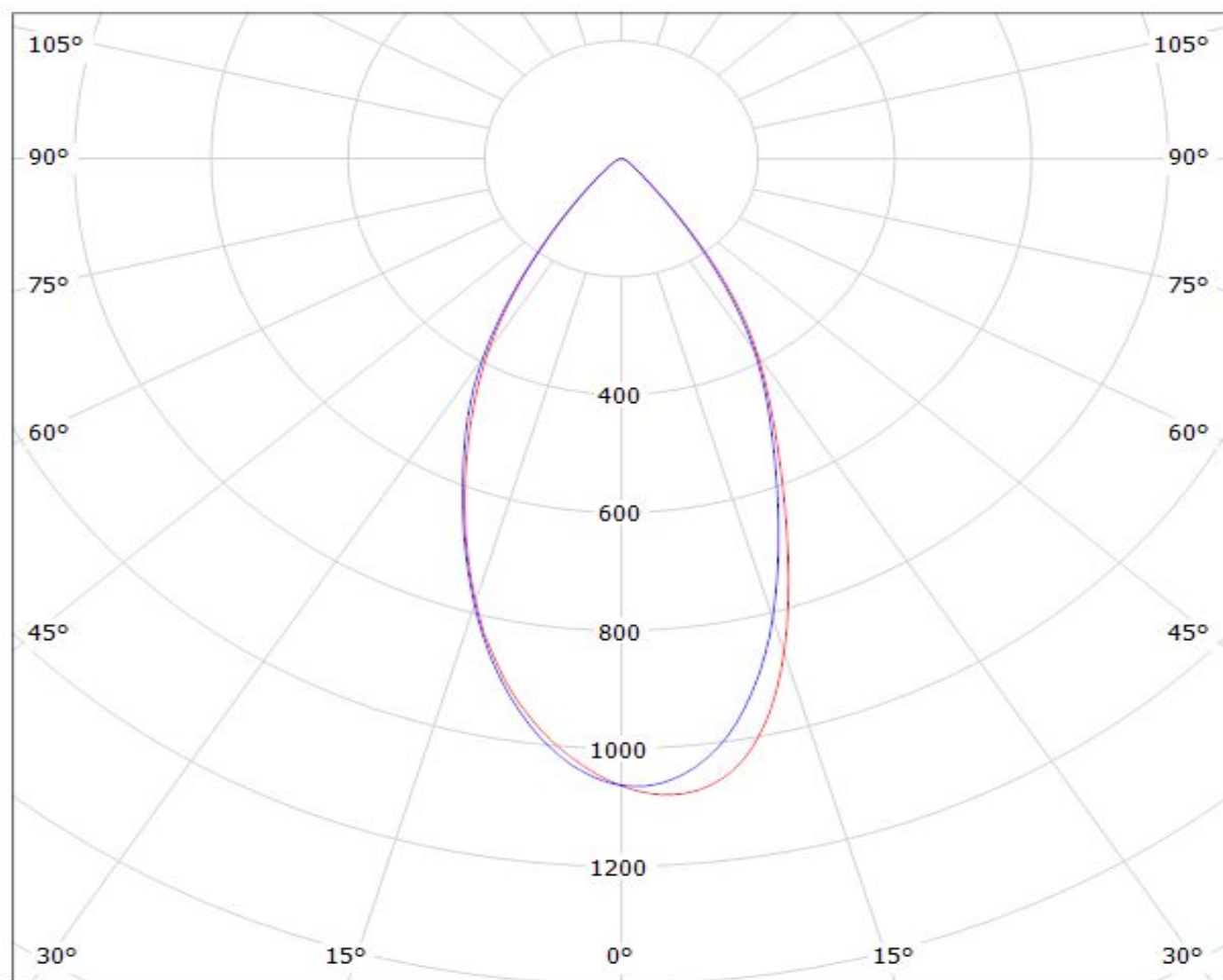
Luminaire: Ledil Oy  
Lamps: 1 x CN12485\_MIRELLA-50-W-DL\_(CLL028)



## LEDiL Oy CN12485\_MIRELLA-50-W-DL\_(MT-G2) Eff.83.2% / LDC (Polar)

Luminaire: LEDiL Oy CN12485\_MIRELLA-50-W-DL\_(MT-G2) Eff.83.2%

Lamps: 1 x MT-G2 (170lm@250mA)



cd/klm

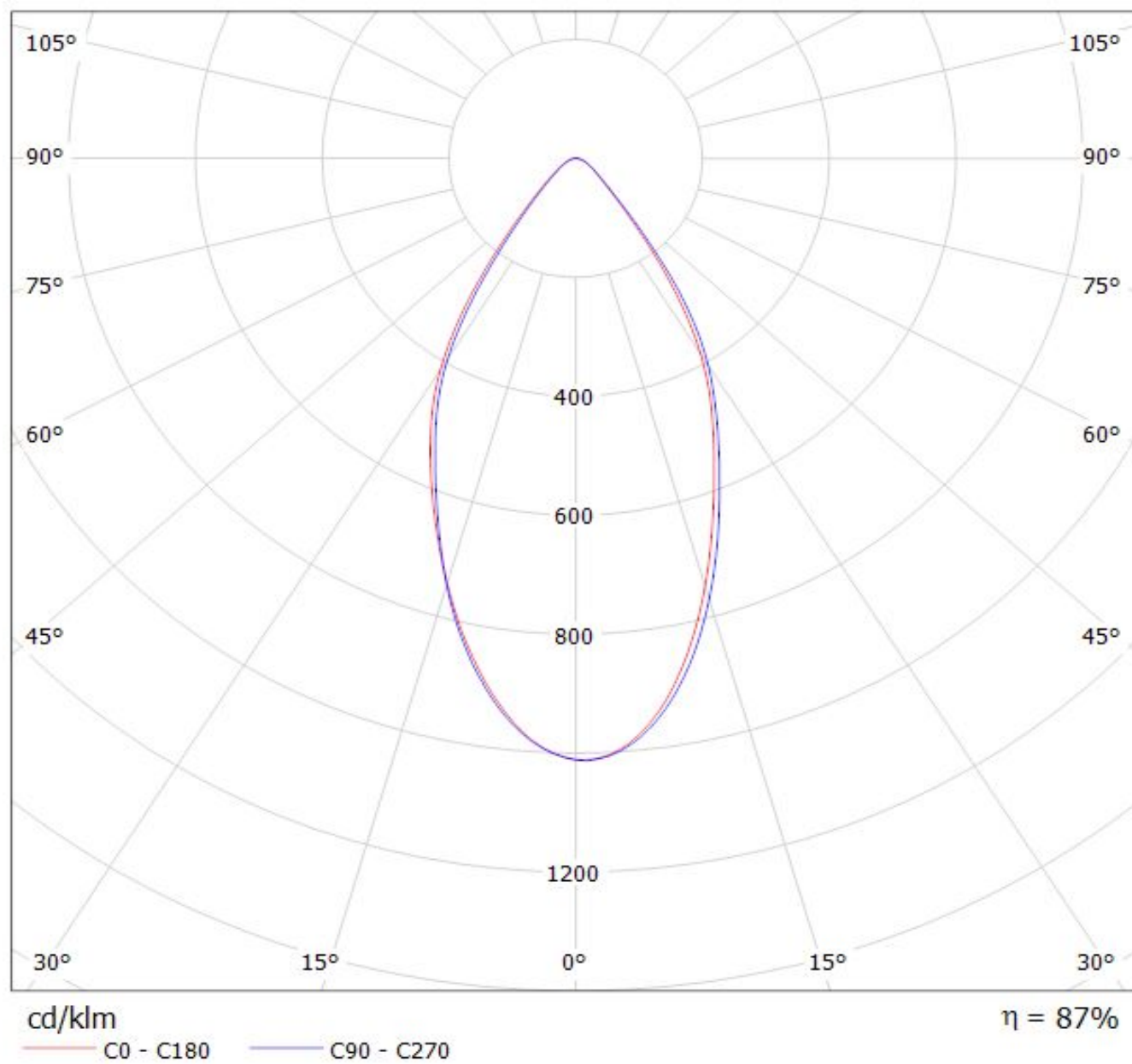
— C0 - C180

— C90 - C270

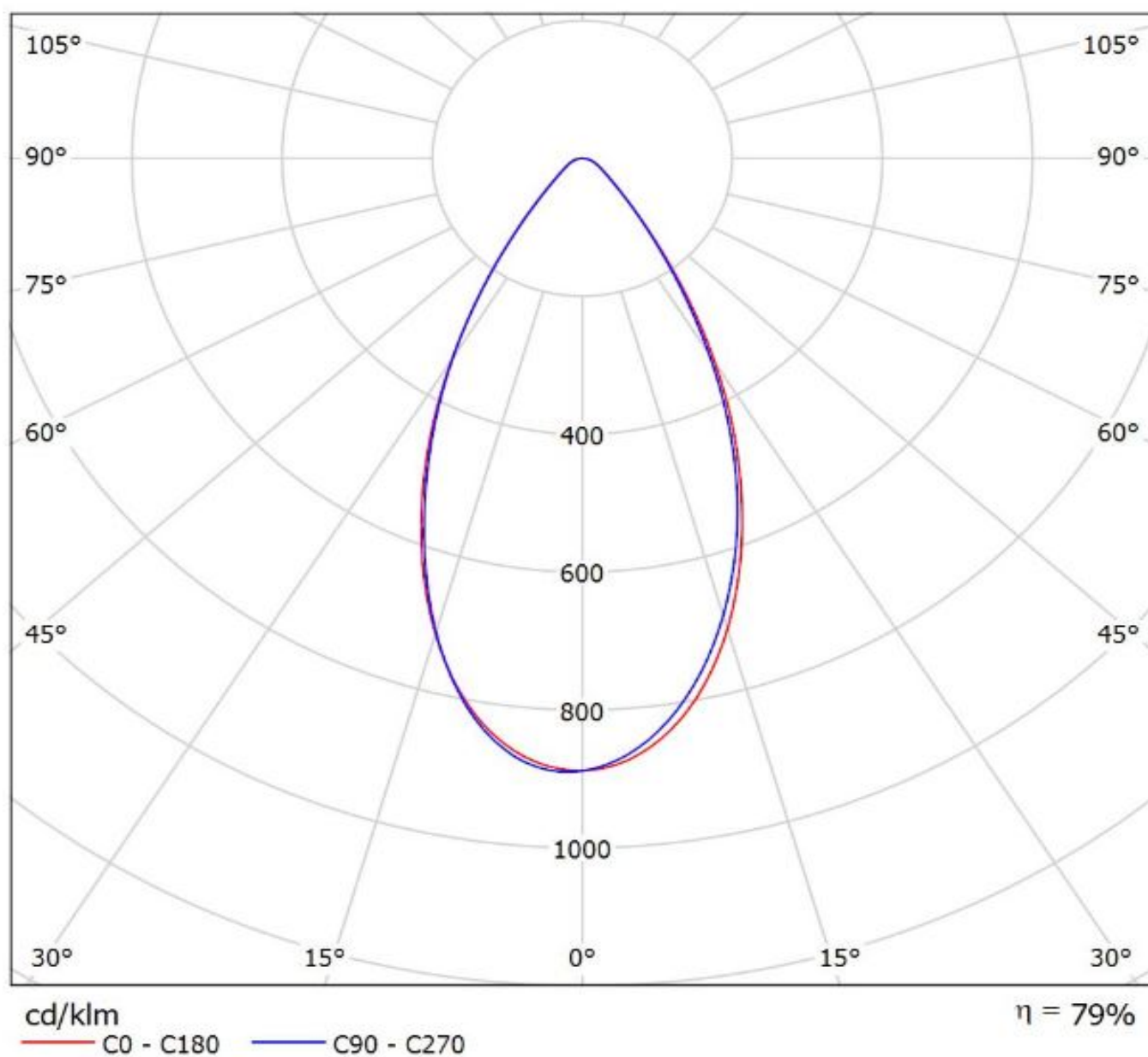
$\eta = 83\%$

Luminaire: Ledil CN12485\_MIRELLA-50-W-DL\_(MHD-G)

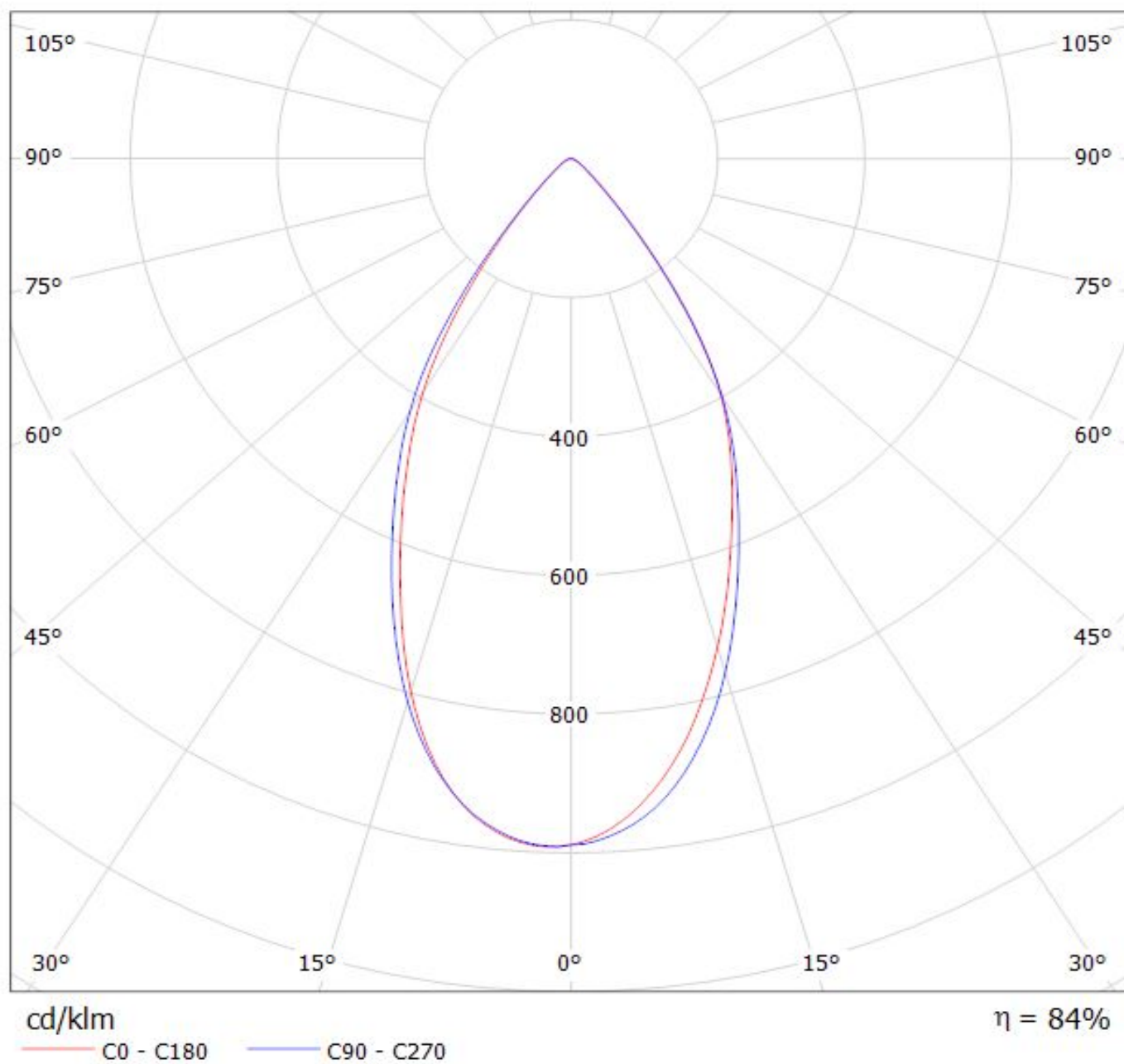
Lamps: 1 x Cree MHD-G\_528.649lm@100mA\_P=3.0W\_I=0.100A



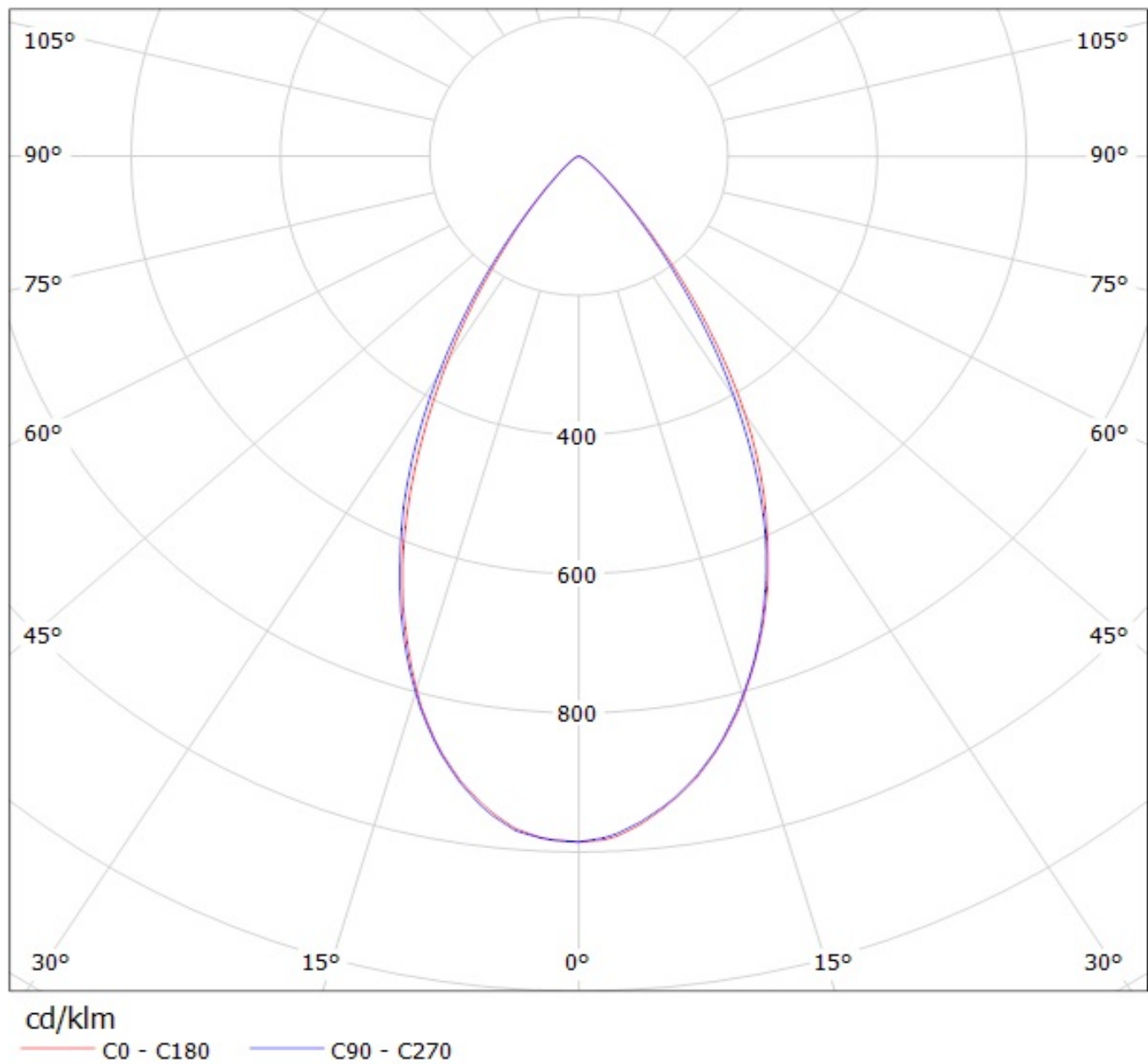
Luminaire: Ledil CN12485\_MIRELLA-50-W-DL\_(CLU720)  
Lamps: 1 x CITIZEN\_CLU720\_(CLU720-1206B8-273M2)  
\_1298.17lm@250mA\_CCT=2700K\_P=8.3W\_I=0.25A



Luminaire: LEDiL Oy CN12485\_MIRELLA-50-W-DL\_(Cree\_XHP70)  
Lamps: 1 x Cree\_XHP70\_258.083lm@250mA\_P=1.38117W\_I=0.2499A



Luminaire: LEDil Oy CN12485\_MIRELLA-50-W-DL\_(Soleriq-S13) Efficiency=81%  
Lamps: 1 x Osram Soleriq S13 (GW KAGHB1.EM) 832lm @ 250mA CCT=3100K P=7.4W I=250mA



**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.**