

## DETAILS

<b>Product Number</b>	C12476_MIRELLA-50-S
<b>Family</b>	Mirella
<b>Type</b>	Reflector
<b>Color</b>	metal
<b>Diameter</b>	49,9 mm
<b>Height</b>	24 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>	11/02/2015



## OPTICAL PROPERTIES

LED	Viewing	Light	Efficiency	cd/lm	Connector
	Angle	Beam			
BXRA LS	13 deg	Spot	89 %	8.600	-
CLL01x	14 deg	Spot	-	-	-
CLL02x/CLU02x (LES10)	20 deg	Spot	93 %	-	-
CLU710/711	20 deg	Spot	90 %	3.700	-
CLU720/721	24 deg	Spot	90 %	2.400	-
CLU700/701	15 deg	Spot	90 %	6.200	-
MT-G2	17 deg	Spot	92 %	5.500	-
CXA/B 15xx	16 deg	Spot	93 %	5.100	-
CXA/B 13xx	12 deg	Spot	87 %	9.500	-
CXA/B 1816 & CXA/B 1820 & CXA 1850	23 deg	Spot	89 %	3.200	-
XHP50	14 deg	Spot	92 %	7.200	-
XHP70	17 deg	Spot	90 %	5.500	-
MHD-E/G	16 deg	Spot	94 %	5.000	-
COB 4W	14 deg	Spot	91 %	6.700	-
LUXEON S1000	17 deg	Spot	-	-	-
LUXEON CoB 1202/1203	20 deg	Spot	89 %	3.900	-
CXM-9	21 deg	Spot	90 %	3.600	-
COB L-Type (LES 9)	20 deg	Spot	90 %	4.000	-
NSCxL036A	17 deg	Spot	88 %	5.600	-
NFMW48xA	9,5 deg	Spot	88 %	13.600	-
Soleriq S13	27 deg	Spot	87 %	2.500	-
Duris S10	15 deg	Spot	89 %	6.500	-
Duris P10	sim: 11	Spot	sim: 91 %	sim: 12.200-	-
Soleriq S9	sim: 19	Spot	sim: 91 %	sim: 4.400	-
ZC4/6	18 deg	Spot	88 %	4.800	-



## PRODUCT DATASHEET

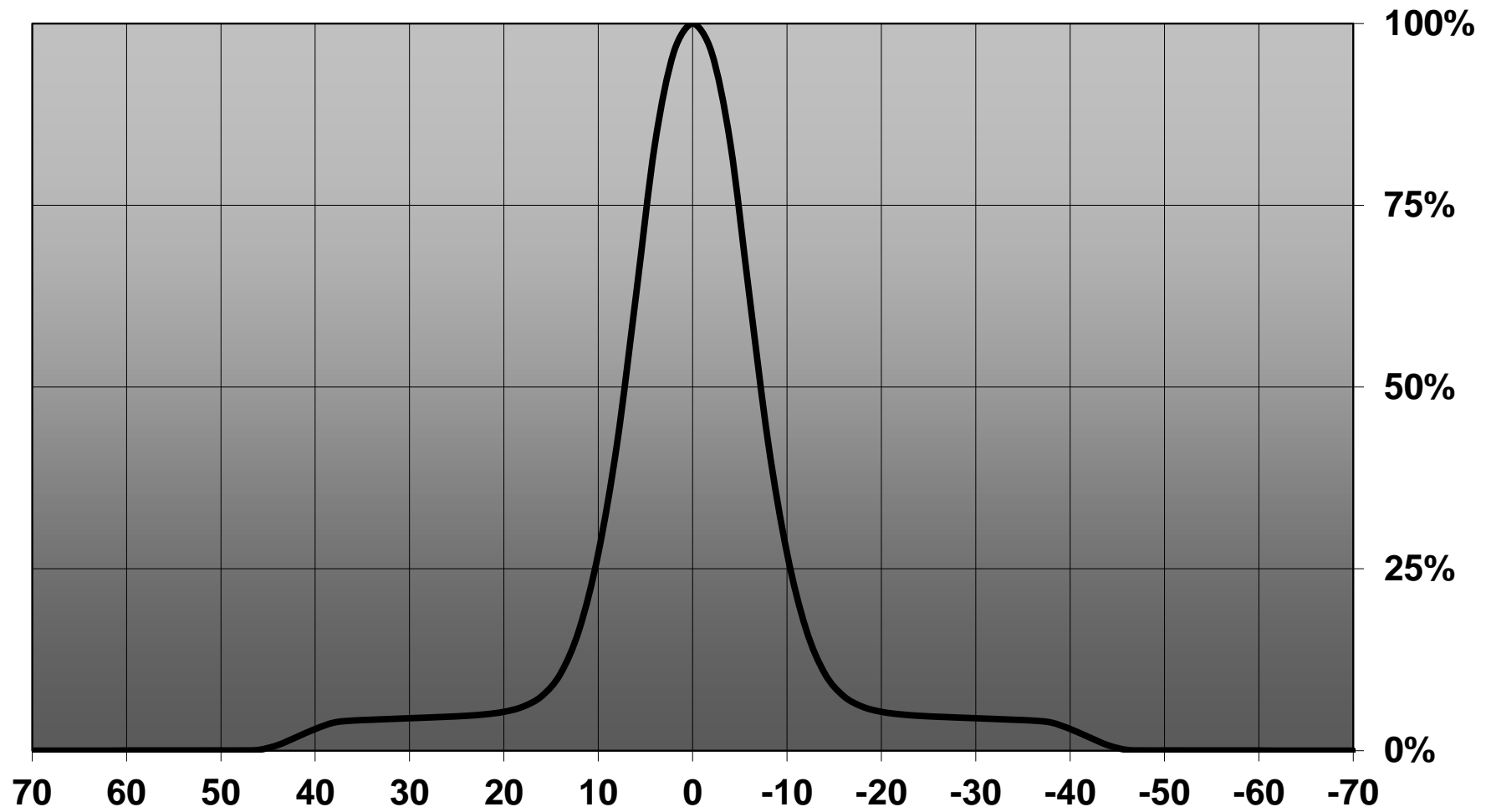
### Mirella series

last update 11/2/2015

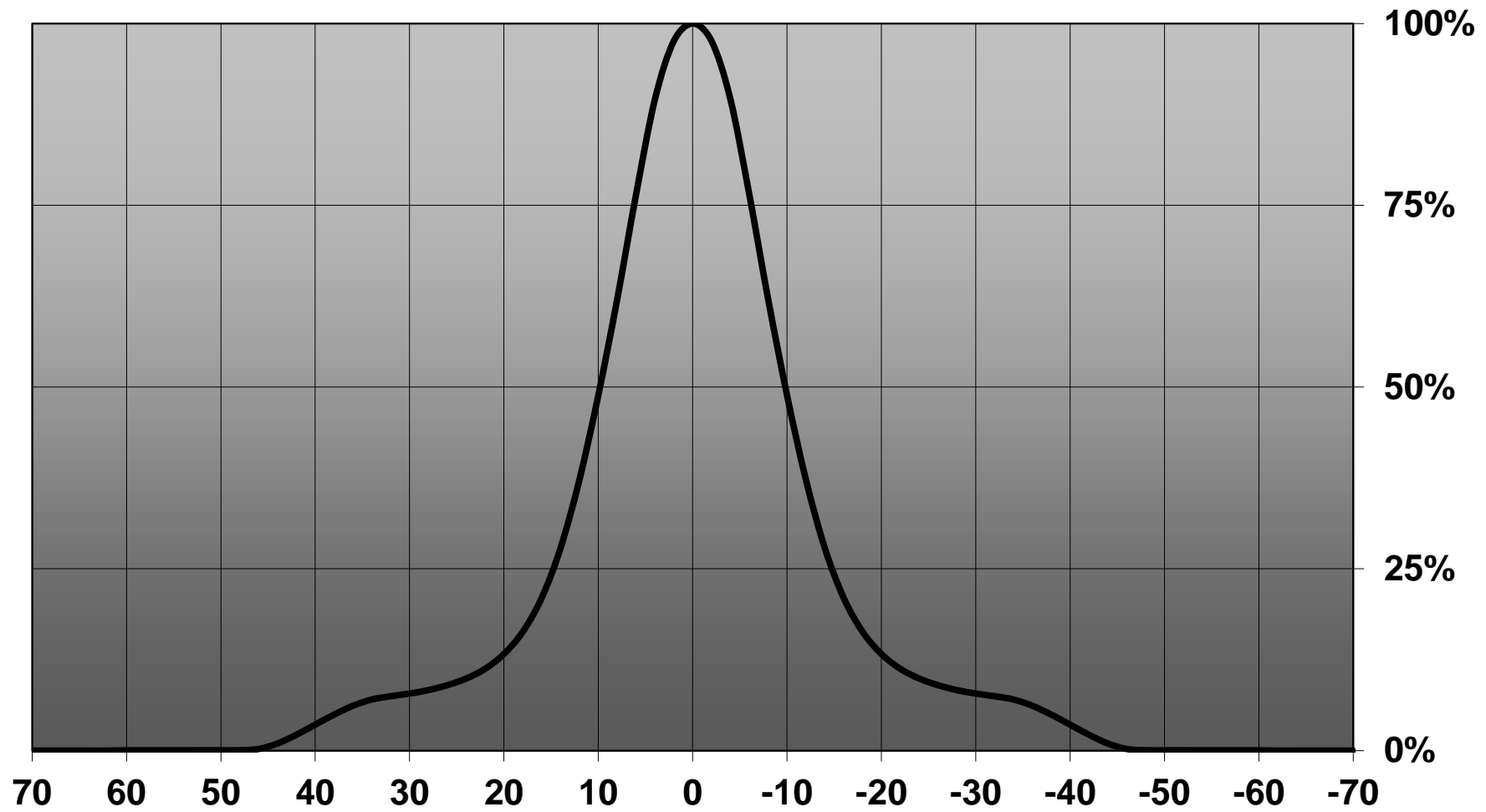
## OPTICAL PROPERTIES

LED	Viewing Angle	Light Beam	Effi- ciency	cd/lm	Connector
Mini Zenigata (GW5BM)	17 deg	Spot	92 %	4.800	-
Mini Zenigata (GW6BM)	17 deg	Spot	91 %	4.800	-
STARK SLE PURE G3 LES10	17 deg	Spot	88 %	5.000	-
SLE G5 LES6	15 deg	Spot	89 %	6.780	-
SLE G5 LES11	23 deg	Spot	87 %	3.100	-

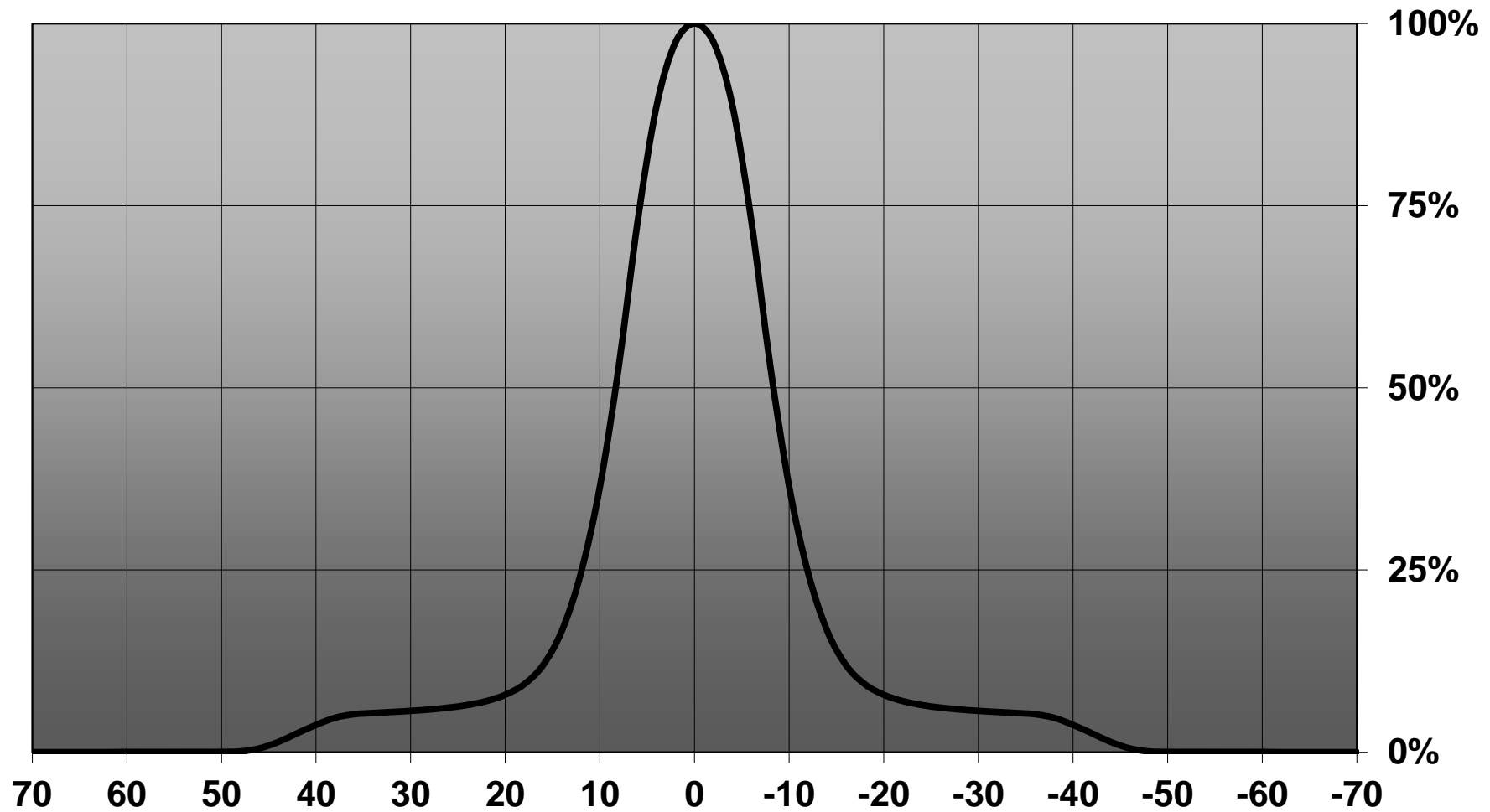
Relative intensity of C12476\_Mirella\_50-S\_(CLL010)



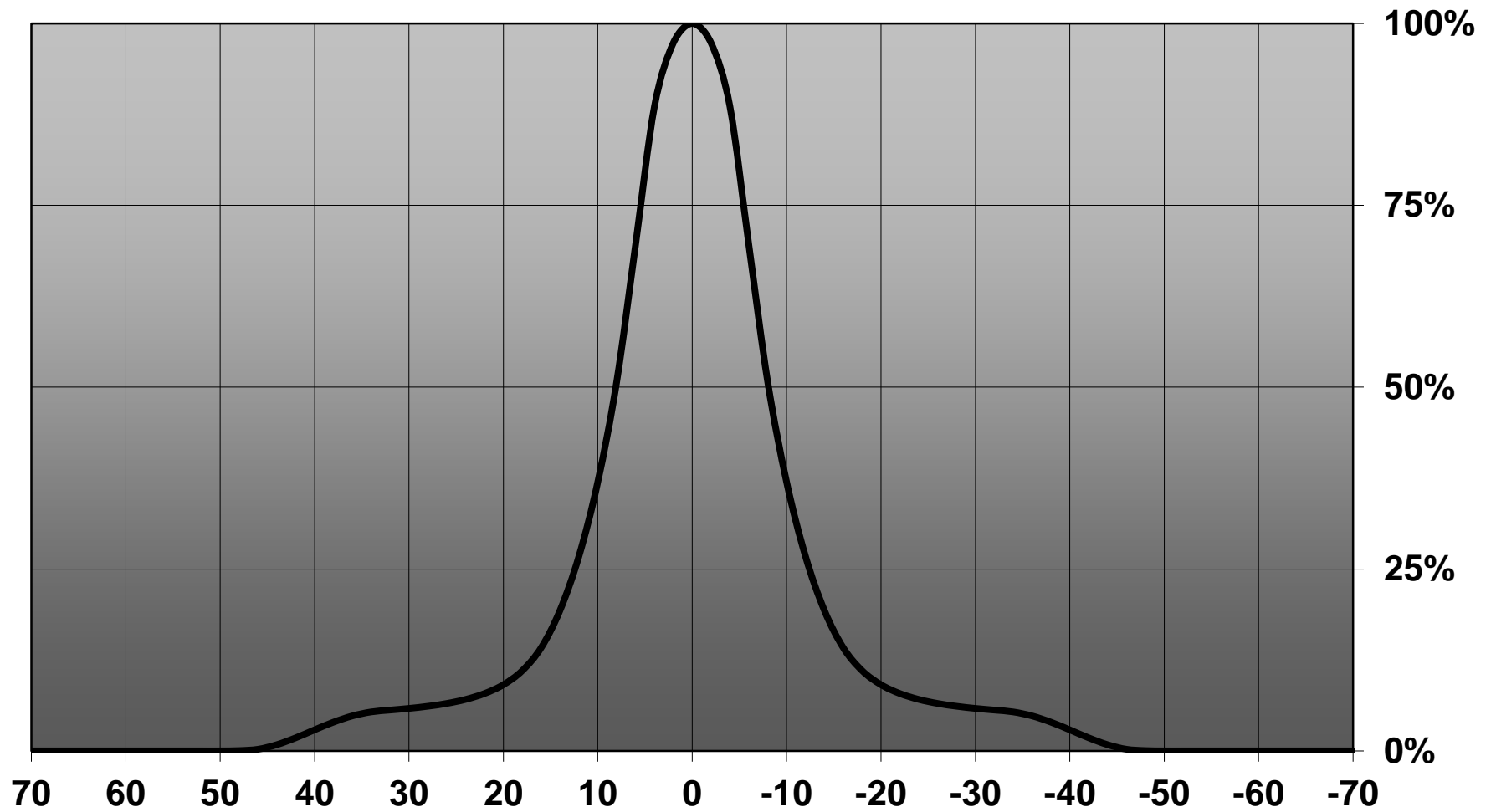
Relative intensity of C12476\_Mirella\_50-S\_(CLL020)



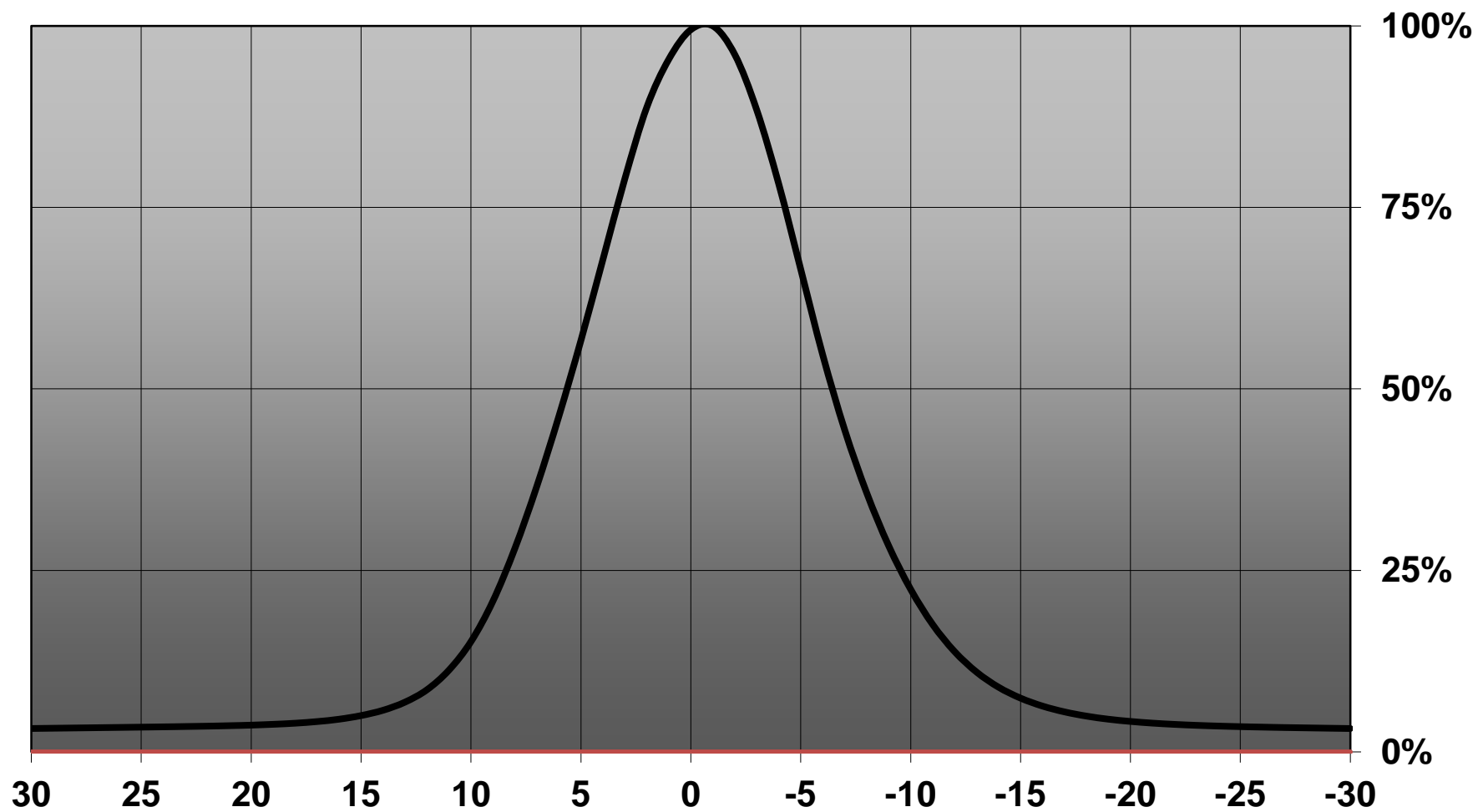
Relative intensity of C12476\_Mirella\_50-S\_(MTG\_Gen\_II)



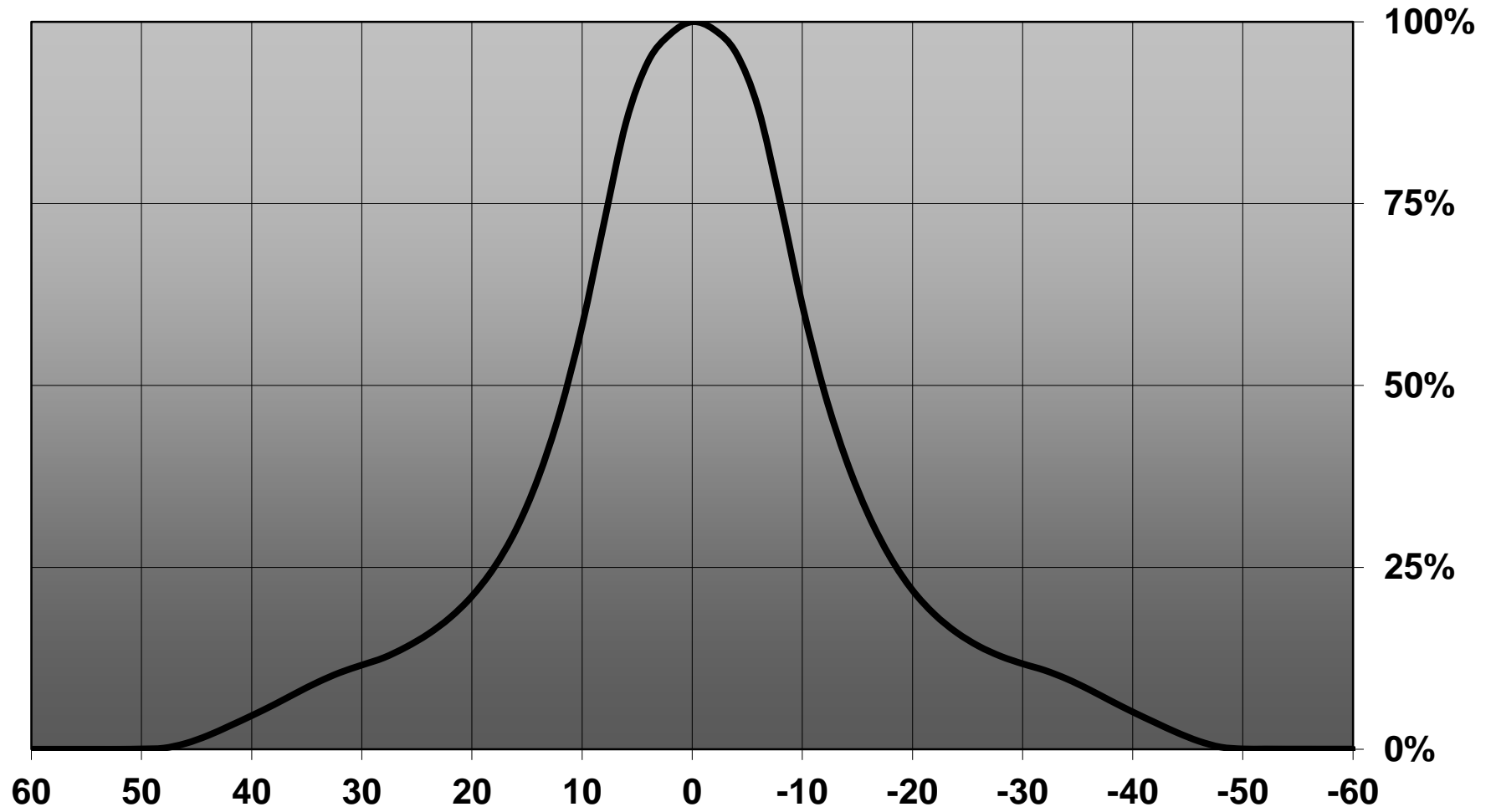
Relative intensity of C12476\_MIRELLA-50-S



Relative intensity of C12476\_MIRELLA-50-S\_(CXA1304)

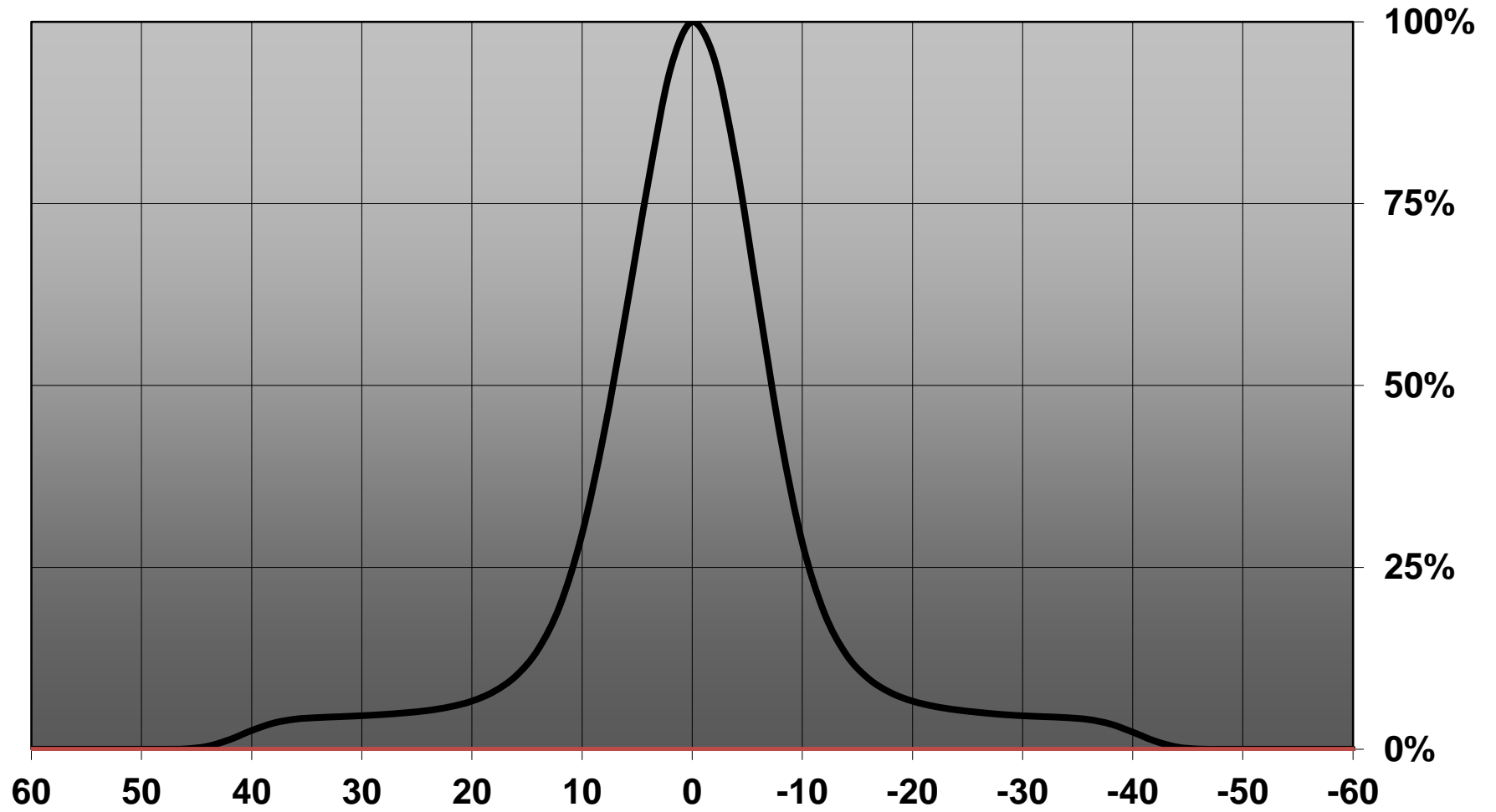


Relative intensity of C12476\_MIRELLA-50-S\_(CXA1816)

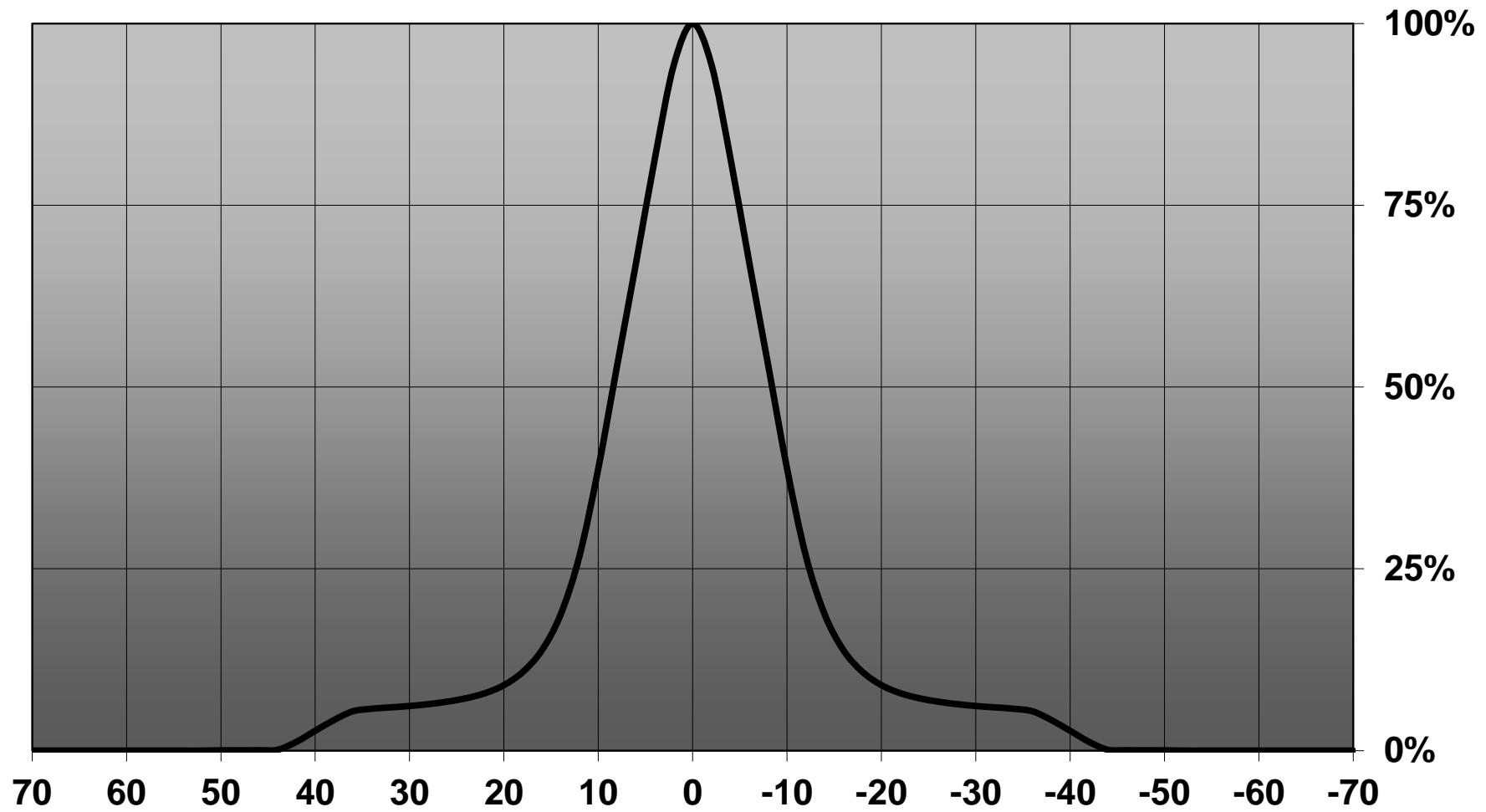




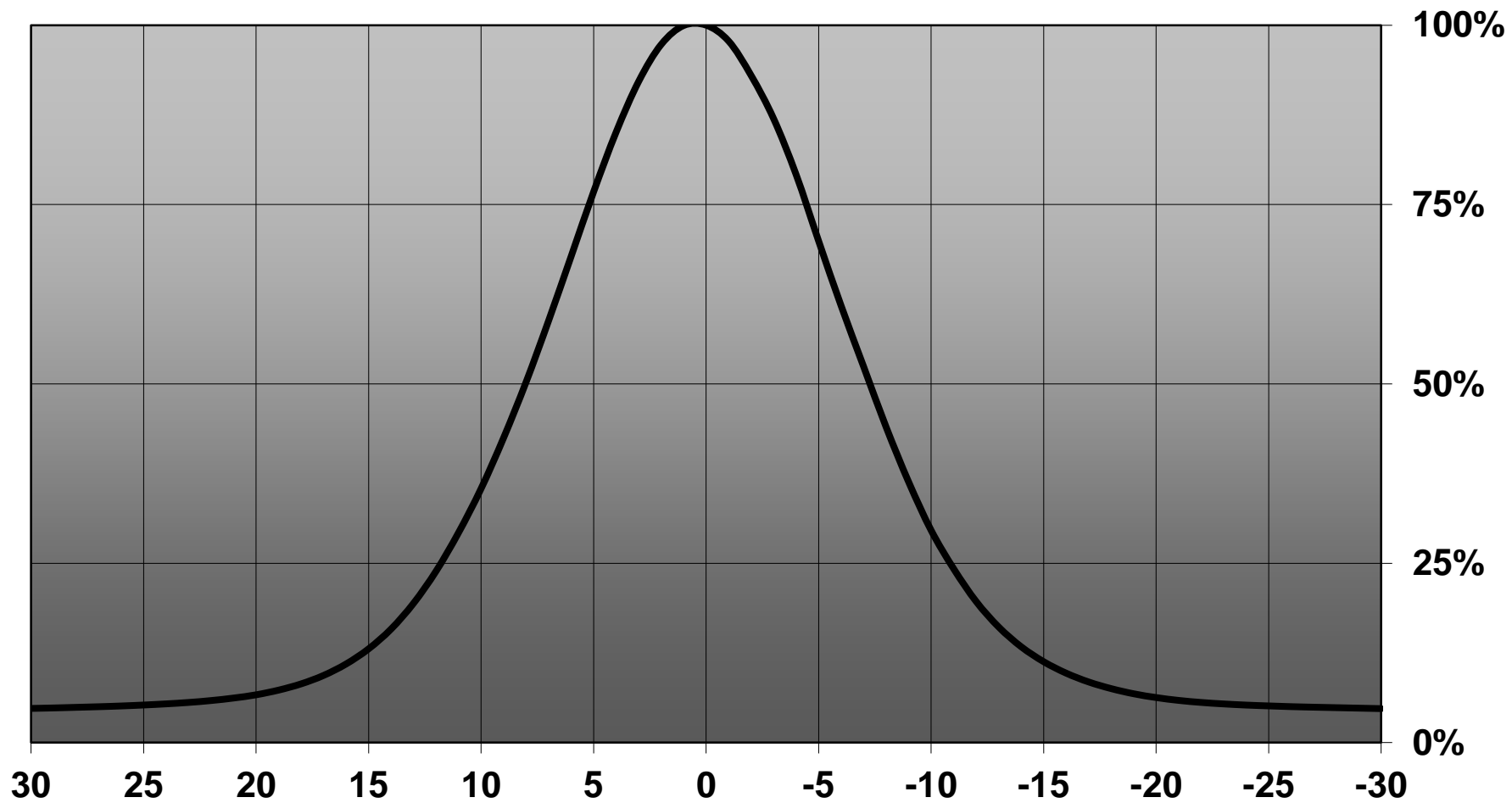
### Relative intensity of Mirella-S-4WLG

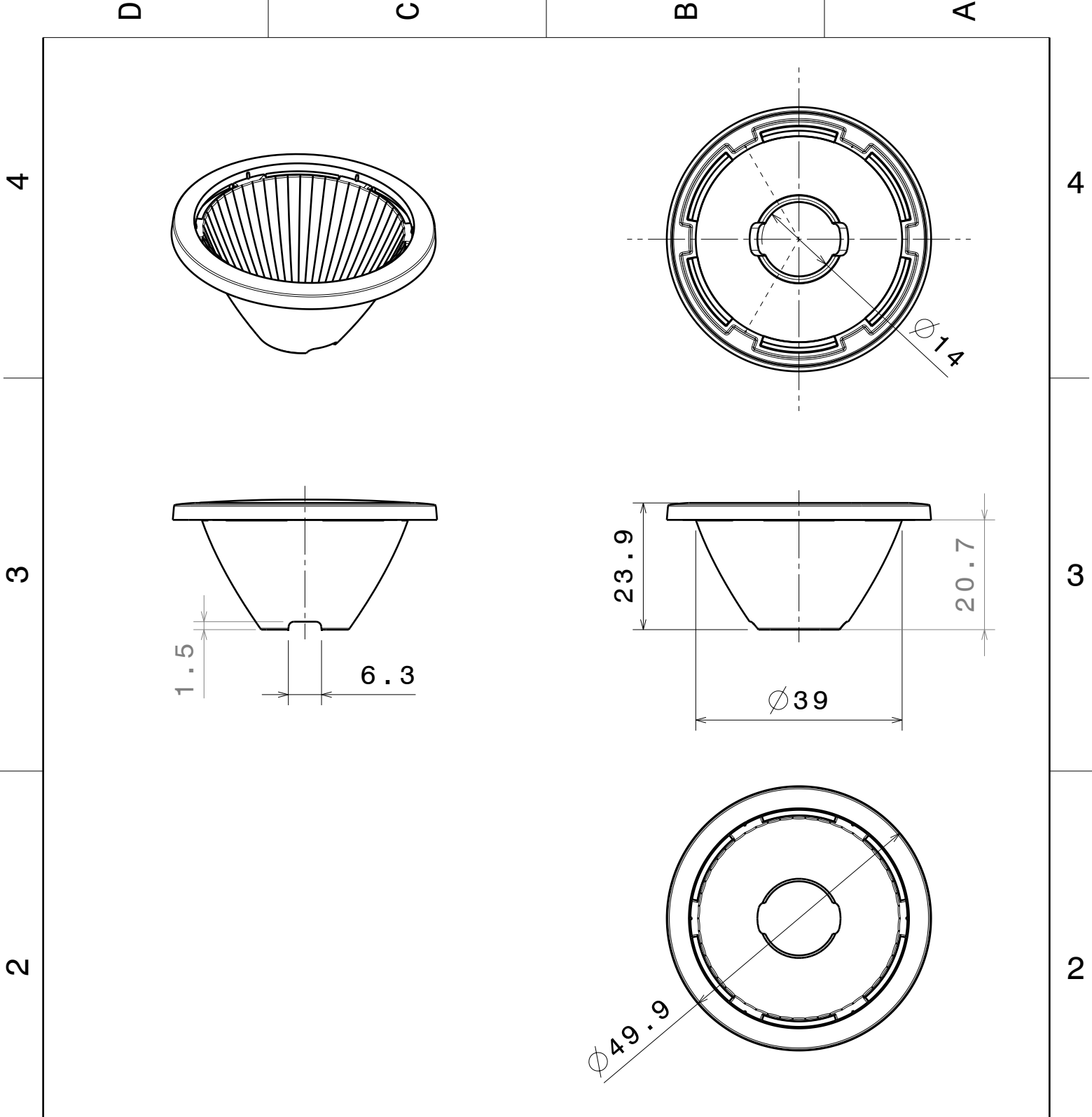


Relative intensity of C12476\_Mirella\_50-S\_(Luxeon\_S)



Relative intensity of C12476\_MIRELLA-50-S\_(Duris\_S10)





Material: PC, metal plated

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Ledil Oy  
Salorankatu 10  
FIN-24240 SALO  
Finland

DRAWING TITLE

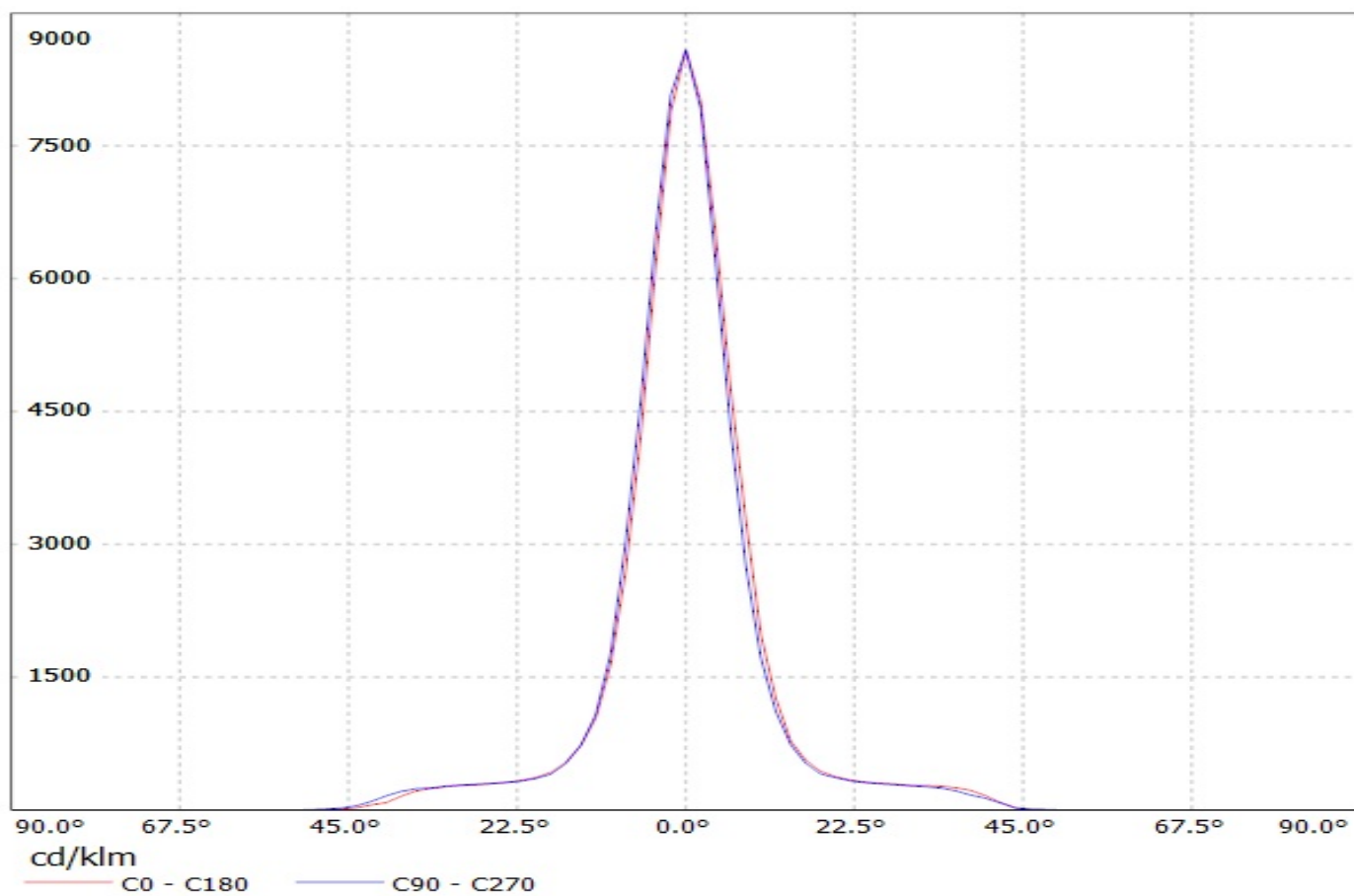
Datasheet Mirella reflector

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

D

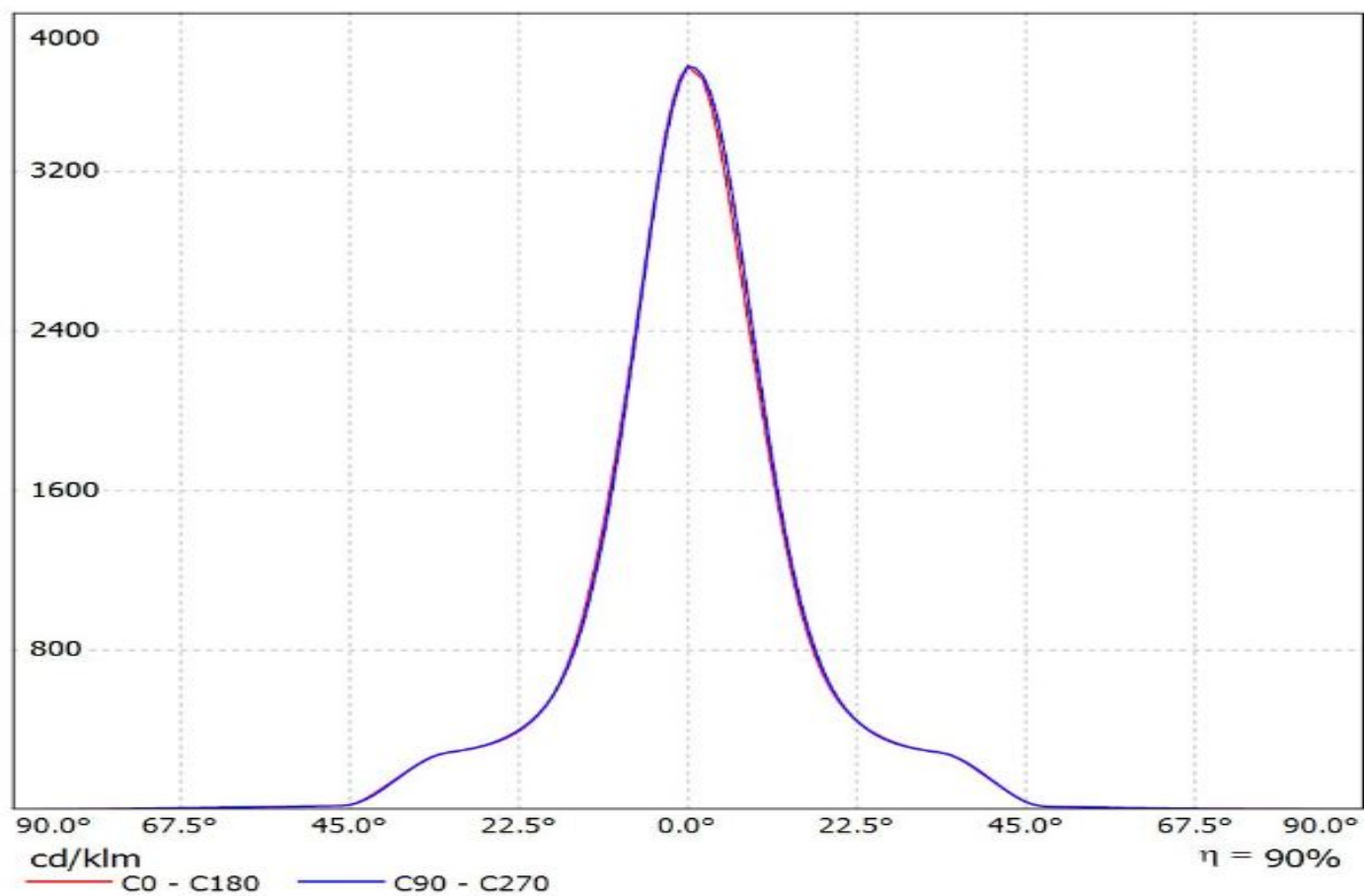
A

Luminaire: Ledil Oy C12476\_MIRELLA-50-S (Bridgelux LS 170lm @ 250mA) Efficiency=89%  
Lamps: 1 x Bridgelux LS 170lm @ 250mA

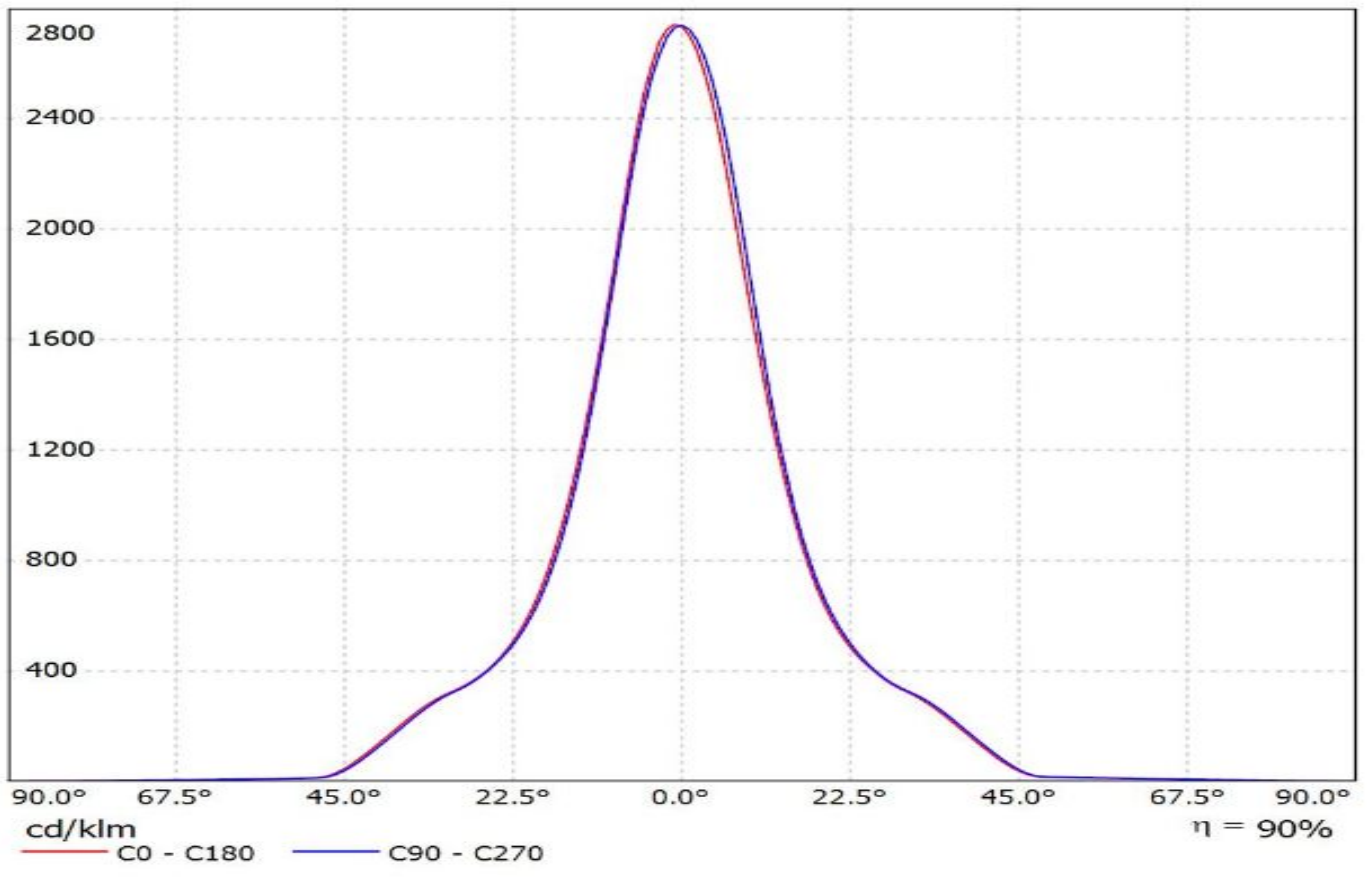


Luminaire: Ledil C12476\_MIRELLA-50-S\_(CLU710)

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

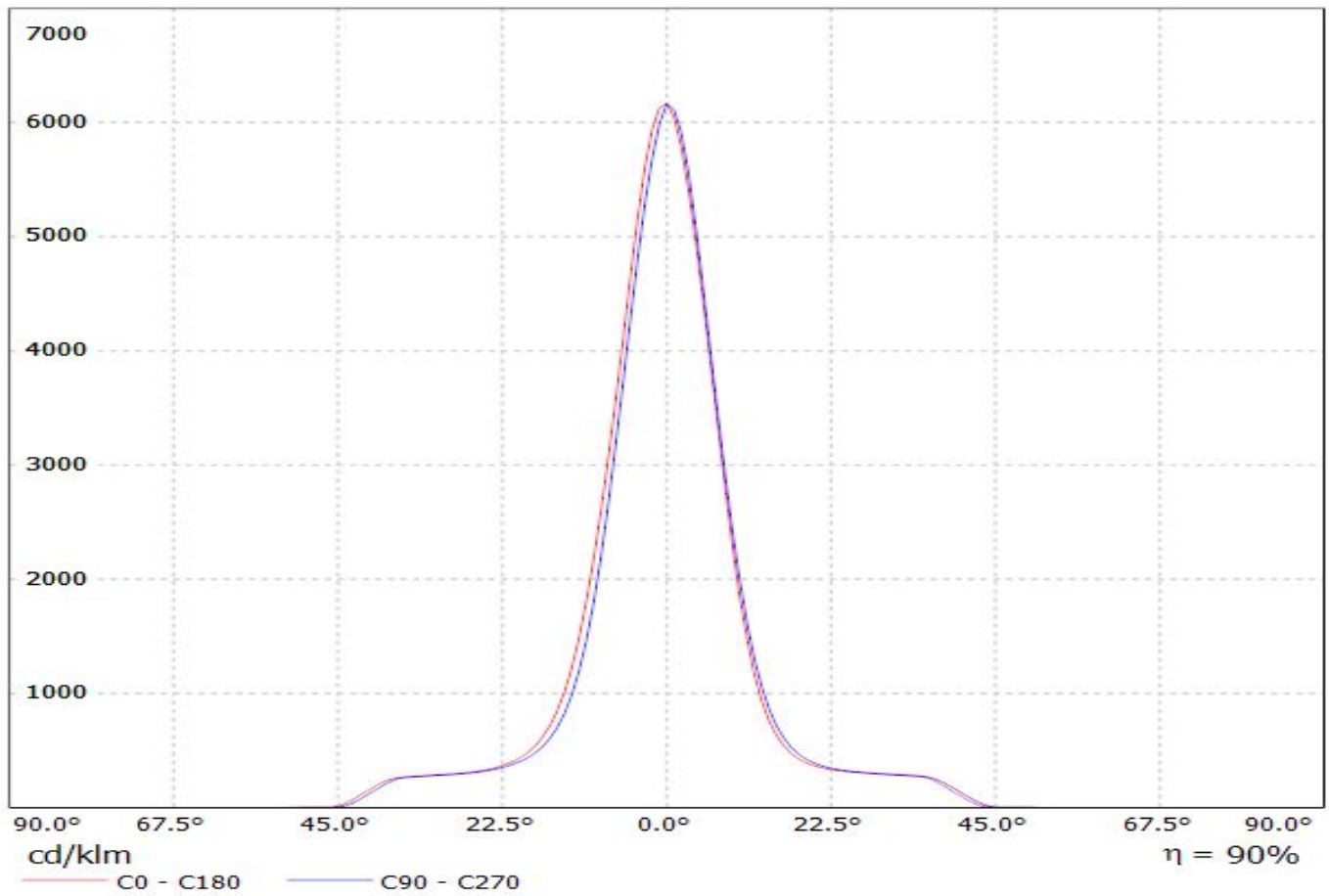


Luminaire: Ledil C12476\_MIRELLA-50-S\_(CLU720)  
Lamps: 1 x CITIZEN\_CLU720\_(CLU720-1206B8-273M2)  
\_1298.17lm@250mA\_CCT=2700K\_P=8.3W\_I=0.25A



Luminaire: LEDiL Oy C12476\_MIRELLA-50-S\_(CLU700)

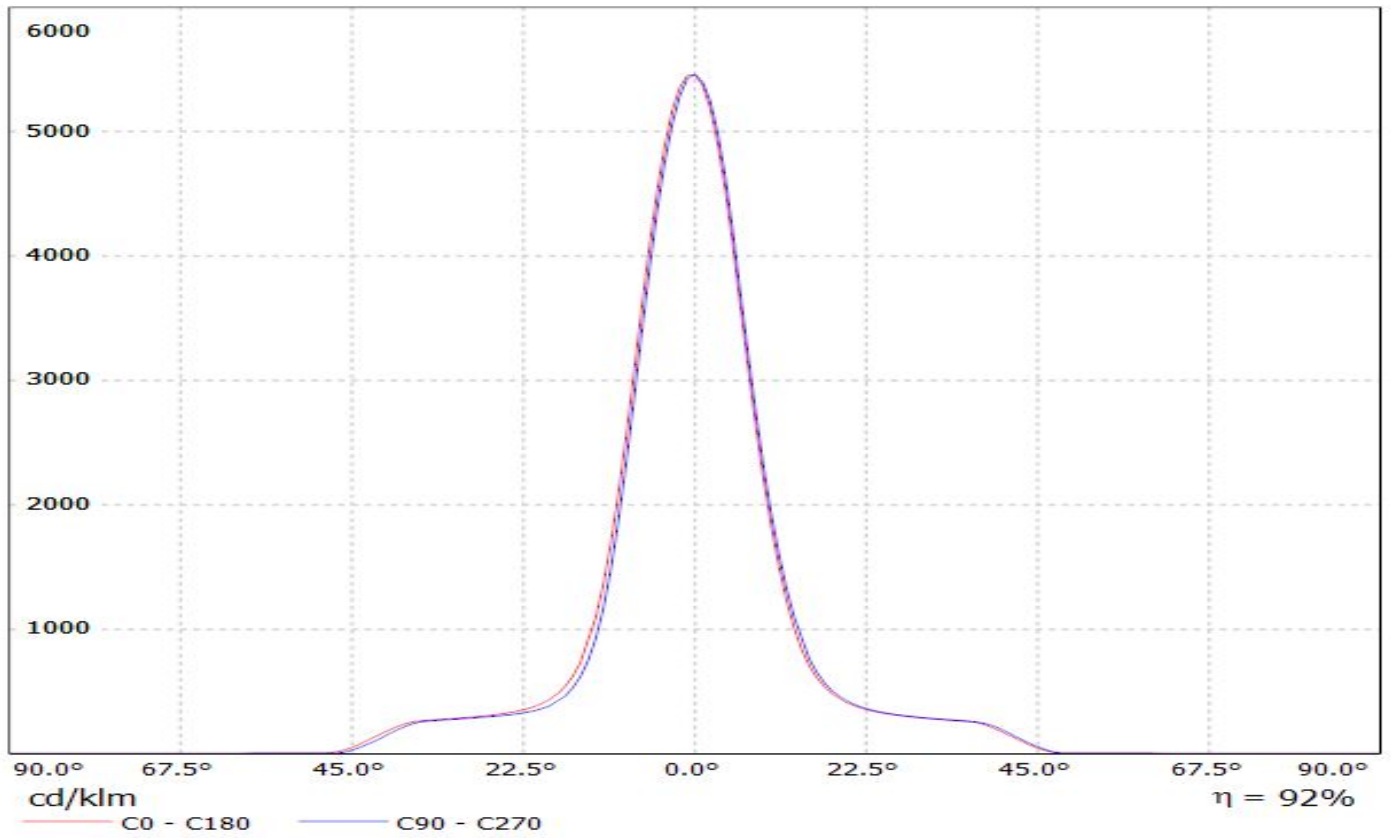
Lamps: 1 x CITIZEN\_CLU700\_(CLU700-100-2B8-273M2G1)\_380.605lm@250mA\_P=2.8002W\_I=0.1001A





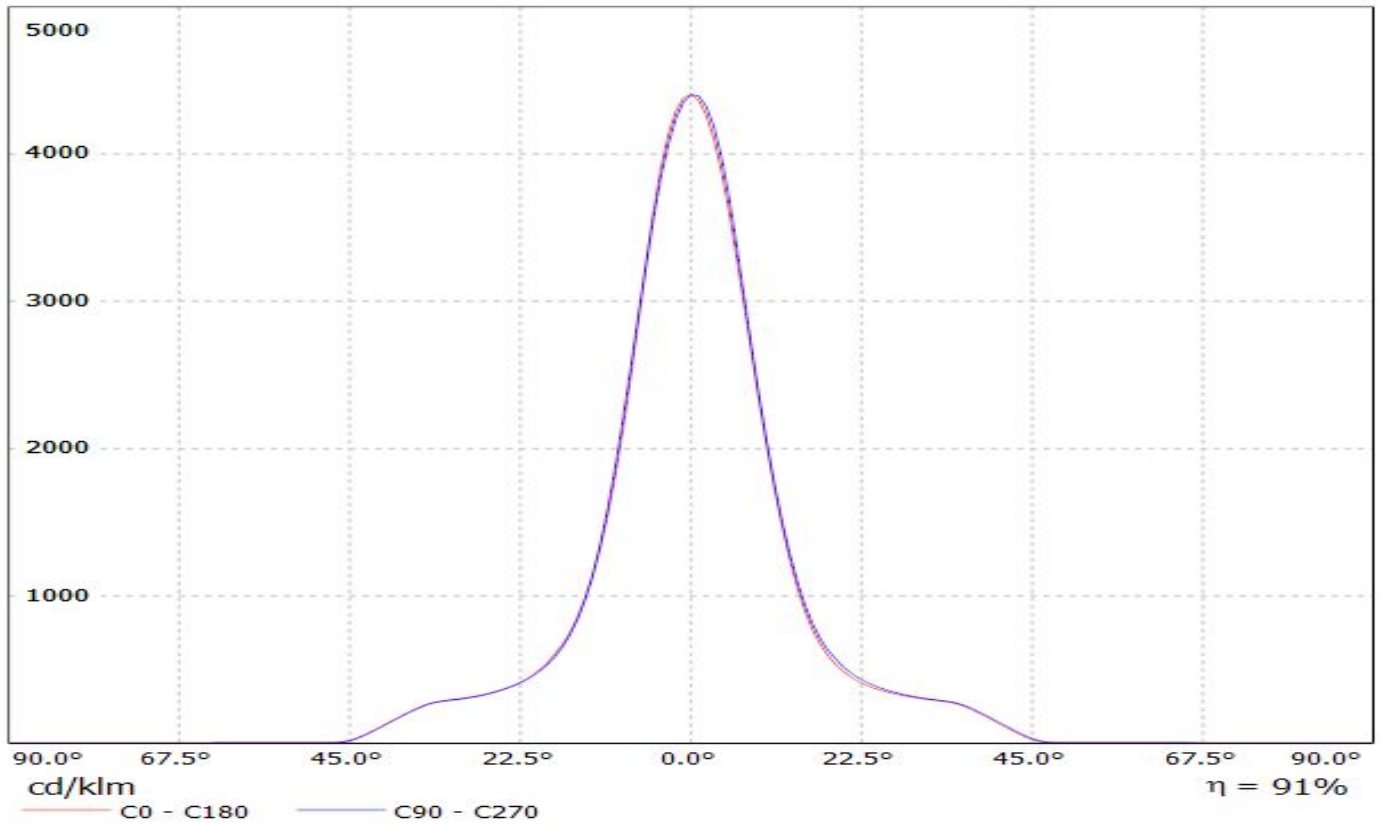
**LEDiL Oy C12476\_MIRELLA-50-S\_(MT-G2) Eff.92.1% / LDC (Linear)**

Luminaire: LEDiL Oy C12476\_MIRELLA-50-S\_(MT-G2) Eff.92.1%  
Lamps: 1 x MT-G2 (168lm@250mA)

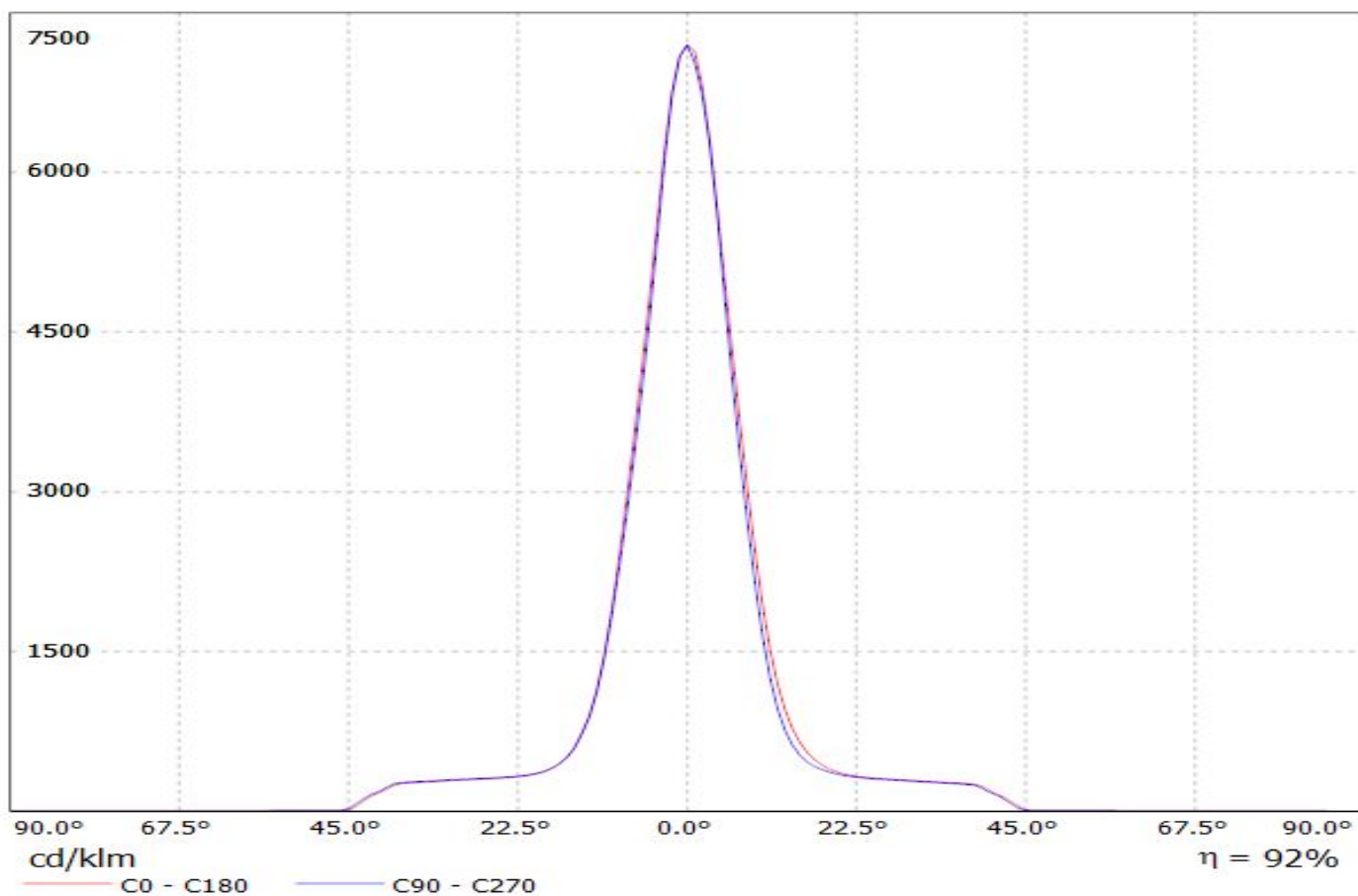


# LEDiL Oy C12476\_MIRELLA-50-S\_(CXA1507) Eff.91.6% / LDC (Linear)

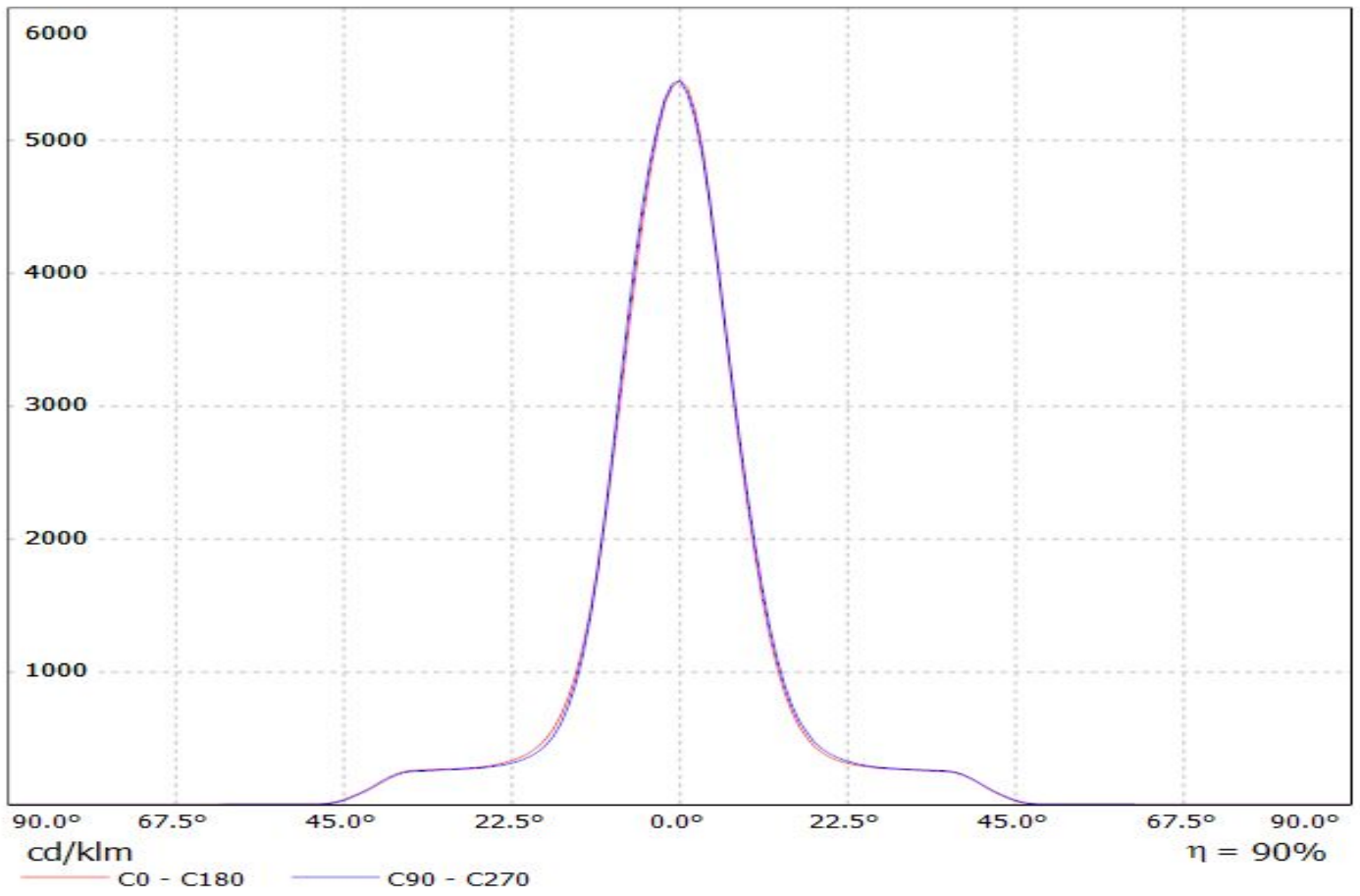
Luminaire: LEDiL Oy C12476\_MIRELLA-50-S\_(CXA1507) Eff.91.6%  
Lamps: 1 x CREE\_CXA1507 (CXA1507-30F-F2-N0A-00000) 238.378lm@50mA CCT=3000K P=1.8506W  
I=54.5mA



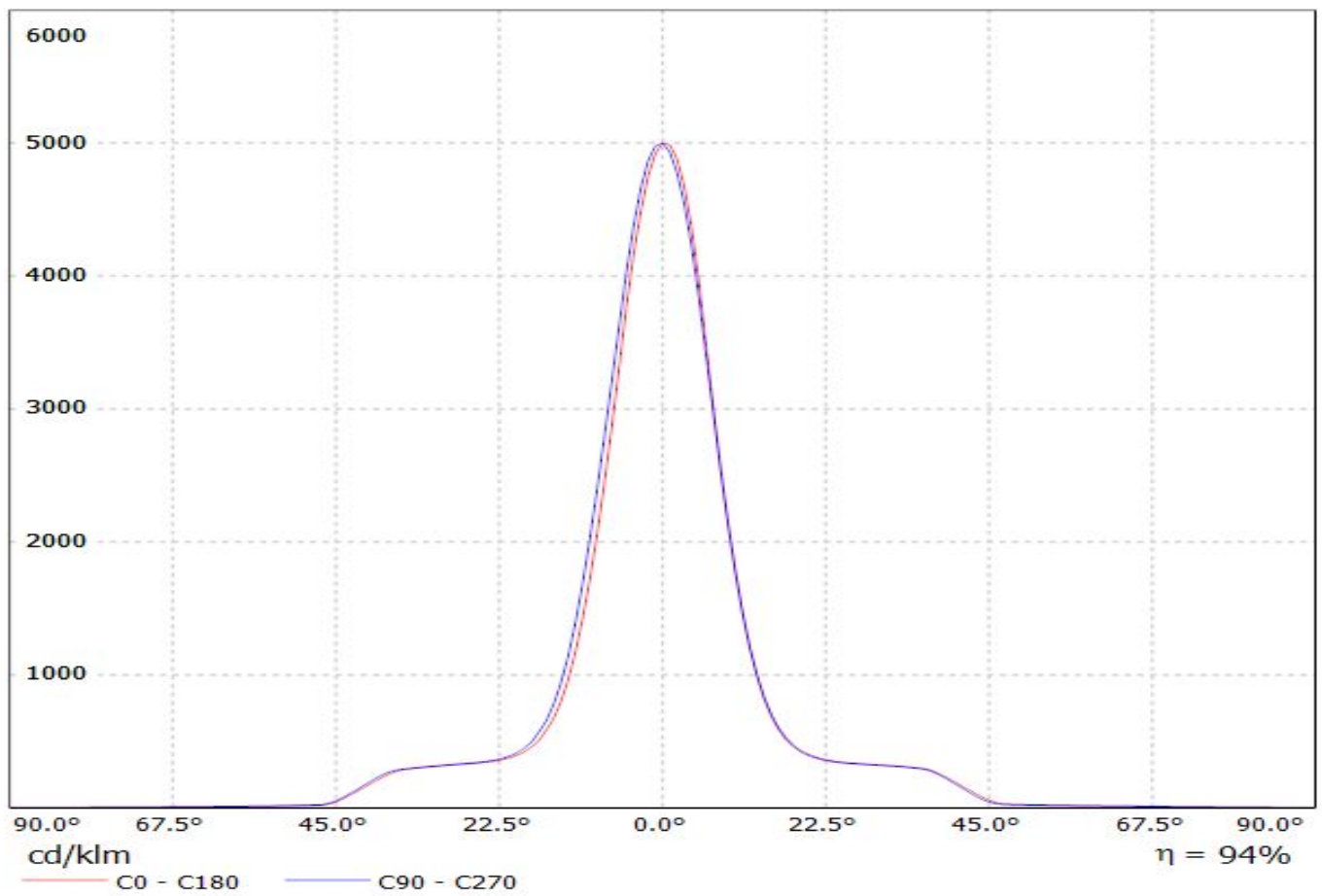
Luminaire: LEDiL Oy C12476\_MIRELLA-50-S\_(Cree\_XHP50\_WW)  
Lamps: 1 x Cree\_XHP50\_WW\_196.271lm@250mA\_P=1.39897W\_I=0.2499A



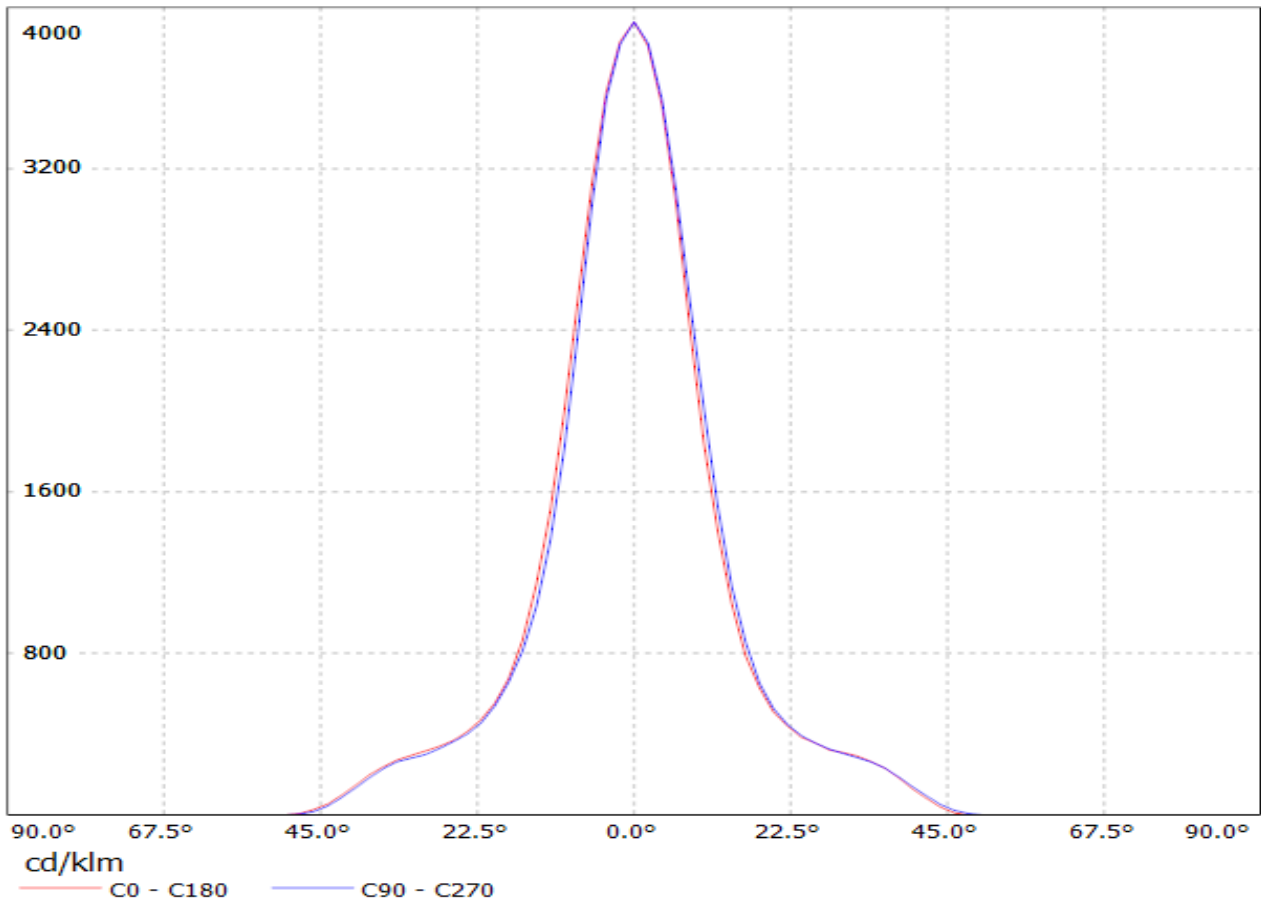
Luminaire: LEDiL Oy C12476\_MIRELLA-50-S\_(CREE\_XHP70)  
Lamps: 1 x CREE\_XHP70\_260.549lm@250mA\_P=1.38255W\_I=0.2499A



Luminaire: Ledil C12476\_MIRELLA-50-S\_(MHD-G)  
Lamps: 1 x Cree MHD-G\_528.649lm@100mA\_P=3.0W\_I=0.100A

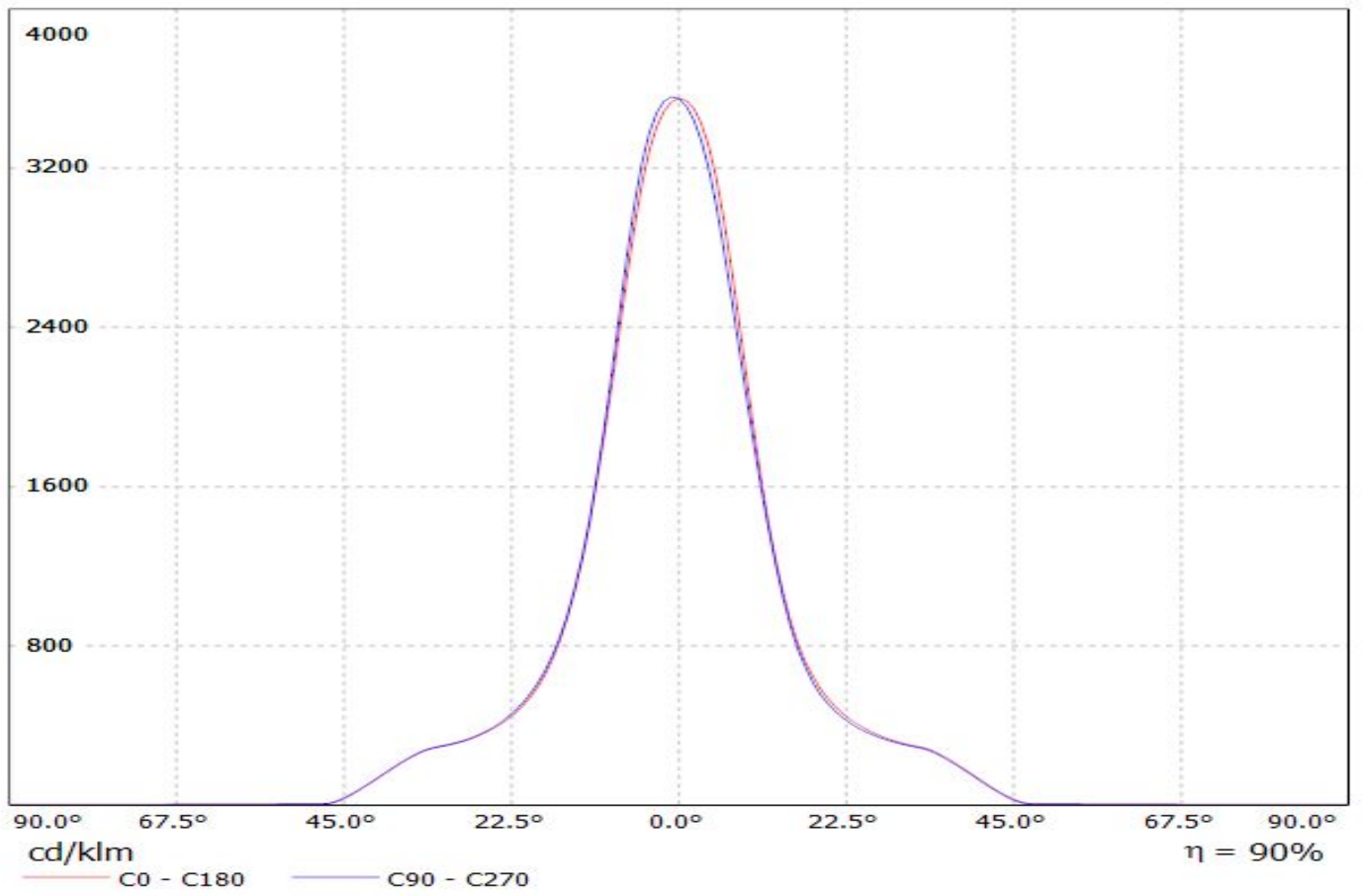


Luminaire: Ledil Oy C12476\_MIRELLA-50-S\_(Luxeon\_CoB\_1203) Efficiency= 89%  
Lamps: 1 x Luxeon Cob 1203 (LHC1-3080-1203) 824lm @ 250mA CCT=3000K P=8,7W I=250mA

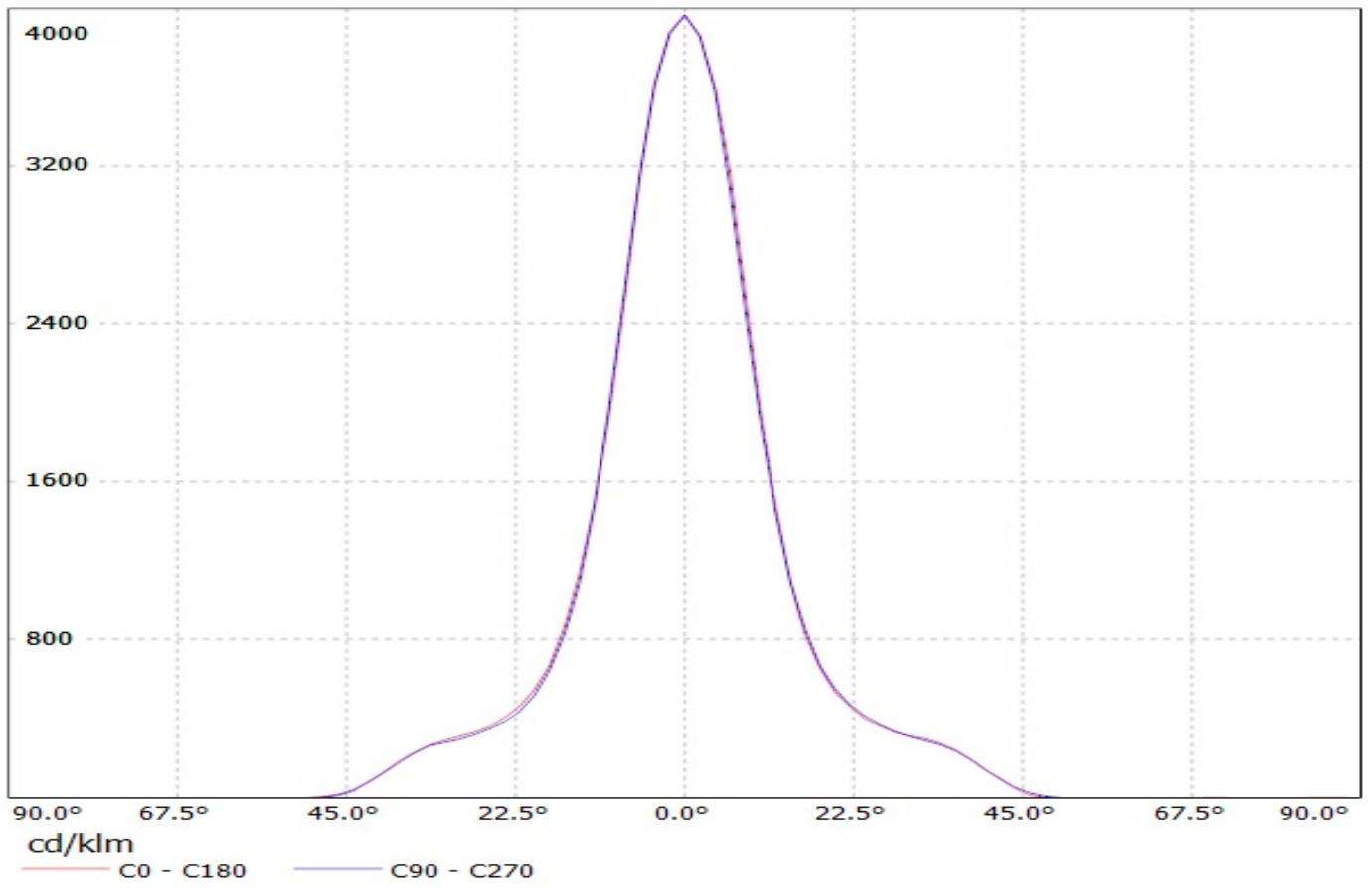


Luminaire: LEDiL Oy C12476\_MIRELLA-50-S\_(CXM-9)

Lamps: 1 x Luminus\_XNOVA\_CXM-9\_(AA00)\_977.302lm@240mA\_P=8.28264W\_I=240mA

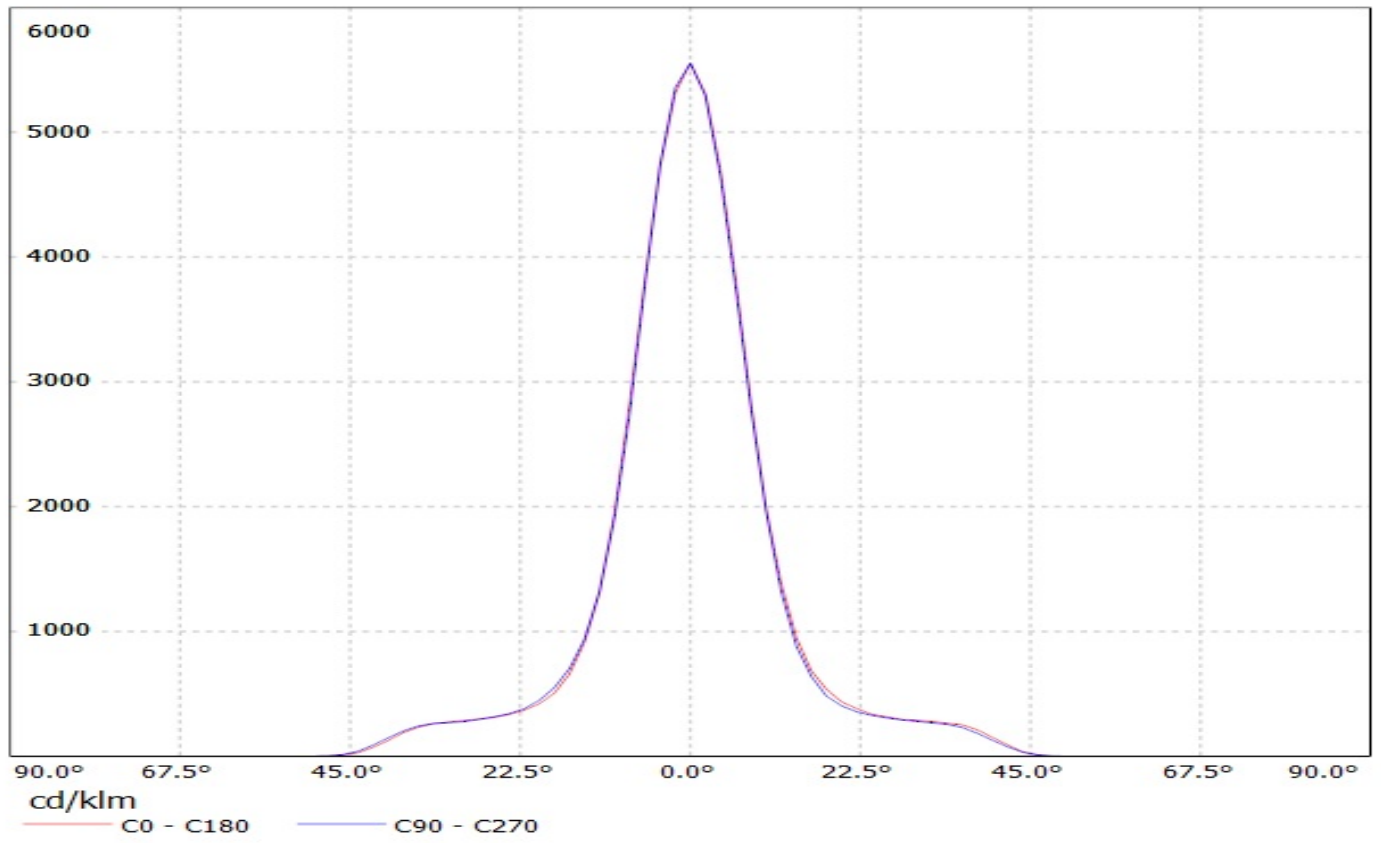


Luminaire: Ledil Oy C12476\_MIRELLA-50-S (NSBxL066A 930lm @ 250mA) Efficiency=90%  
Lamps: 1 x NSBxL066A 930lm @ 250mA (NSBLL066AE) CCT=3536K P=7,75W I=250mA

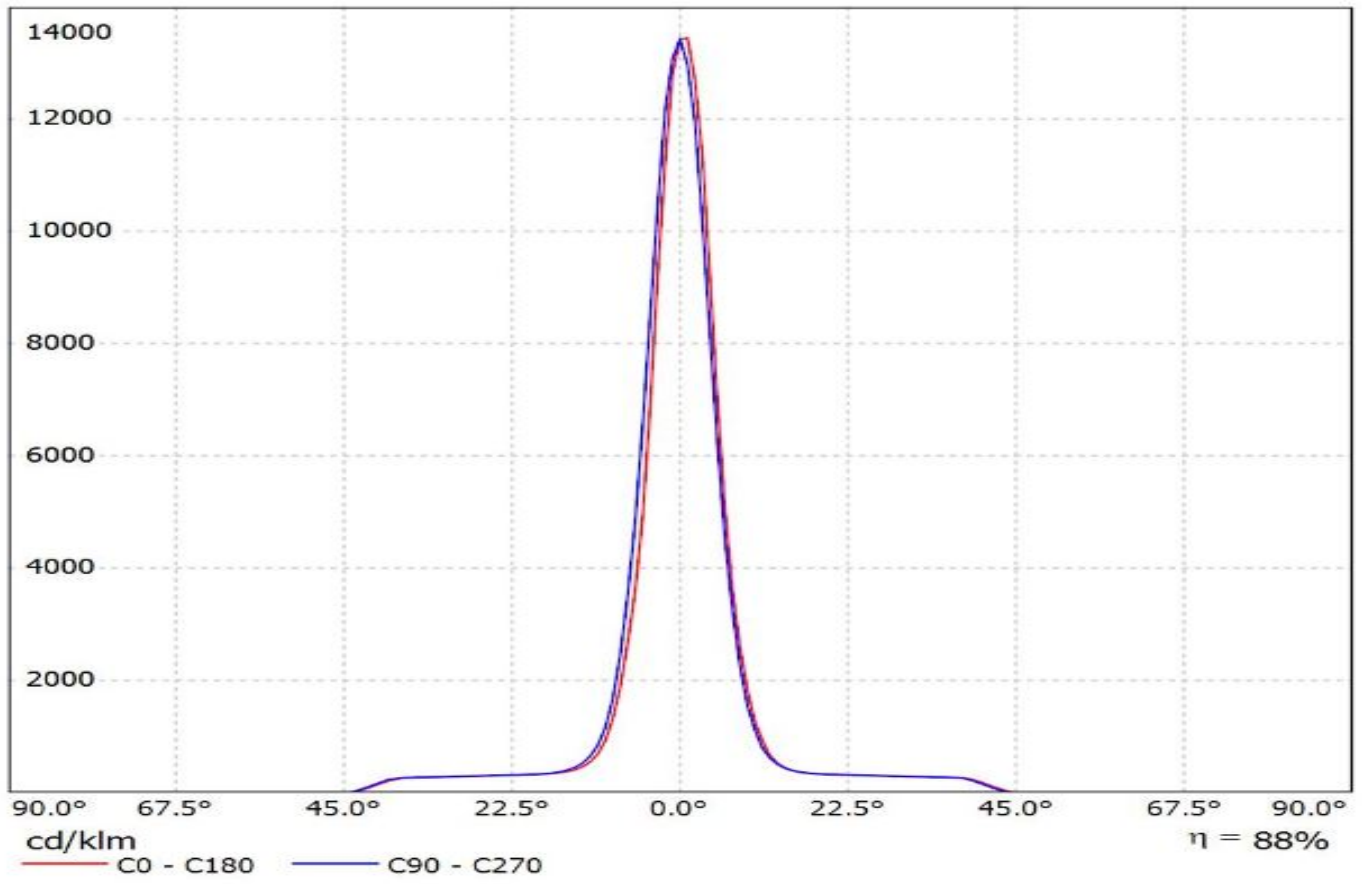




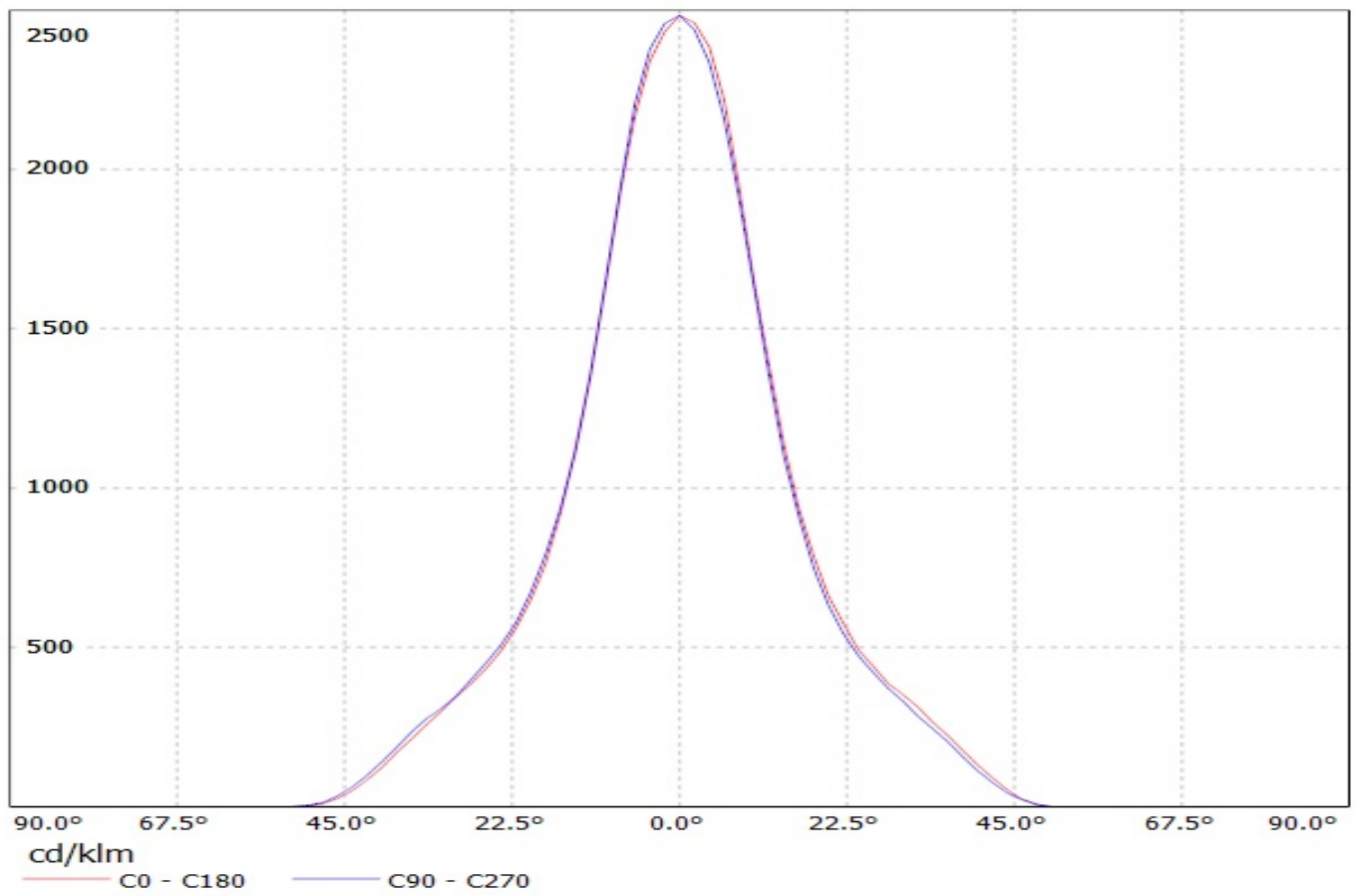
Luminaire: Ledil Oy C12476\_MIRELLA-50-S (Nichia NSCxL036A 434lm @ 100mA) Efficiency=88%  
Lamps: 1 x Nichia NSCxL036A 434lm @ 100mA (NSCLL036A) CCT=3000K P=3,4W I=100mA



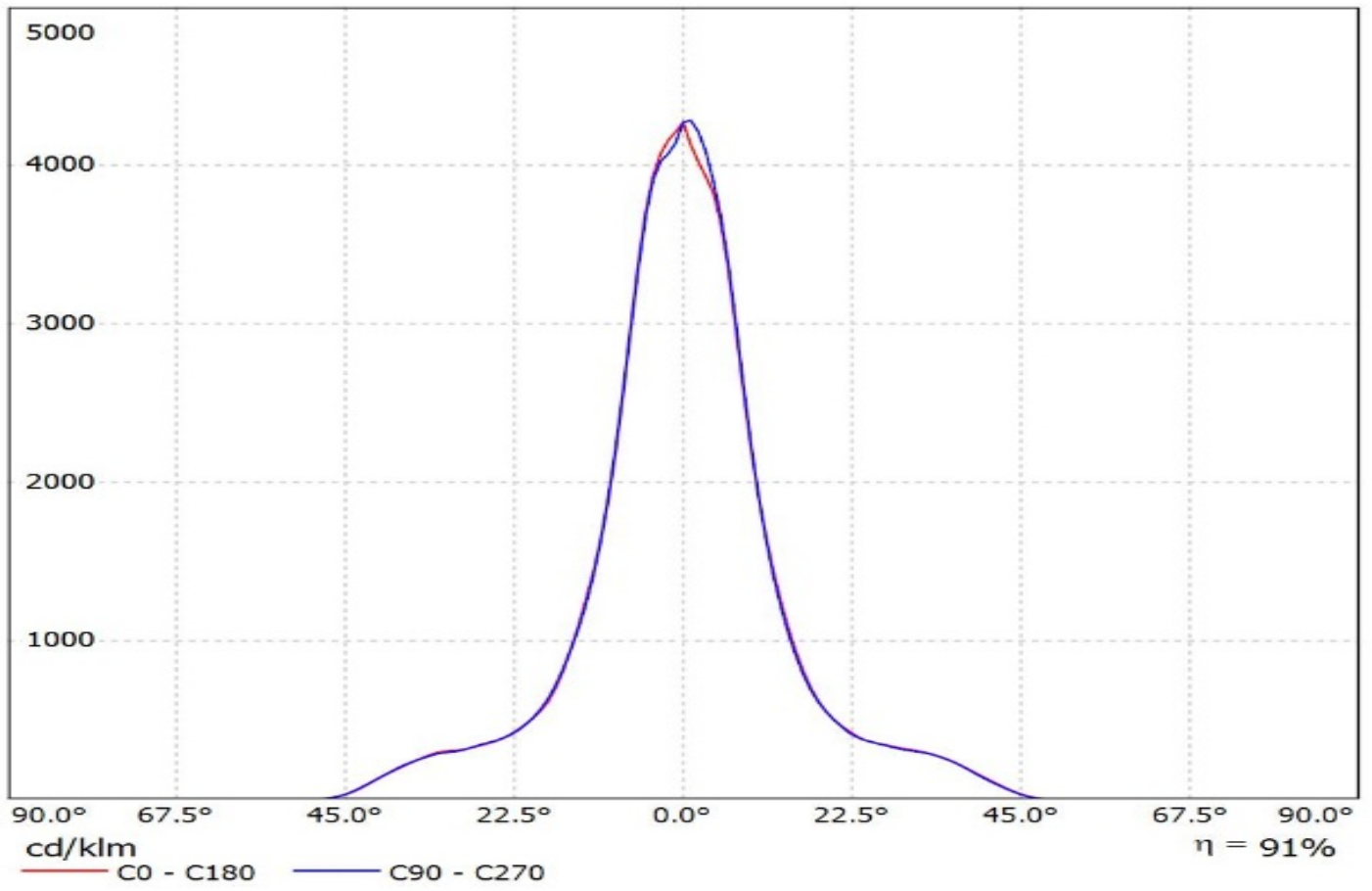
Luminaire: LEDiL Oy C12476\_MIRELLA-50-S\_(NFMX48xAR\_14chip)\_3000K  
Lamps: 1 x Nichia\_NFMX48xAR\_14chip\_(NFMW488AR)\_557.972lm@100mA\_P=4.0701W\_I=0.100A



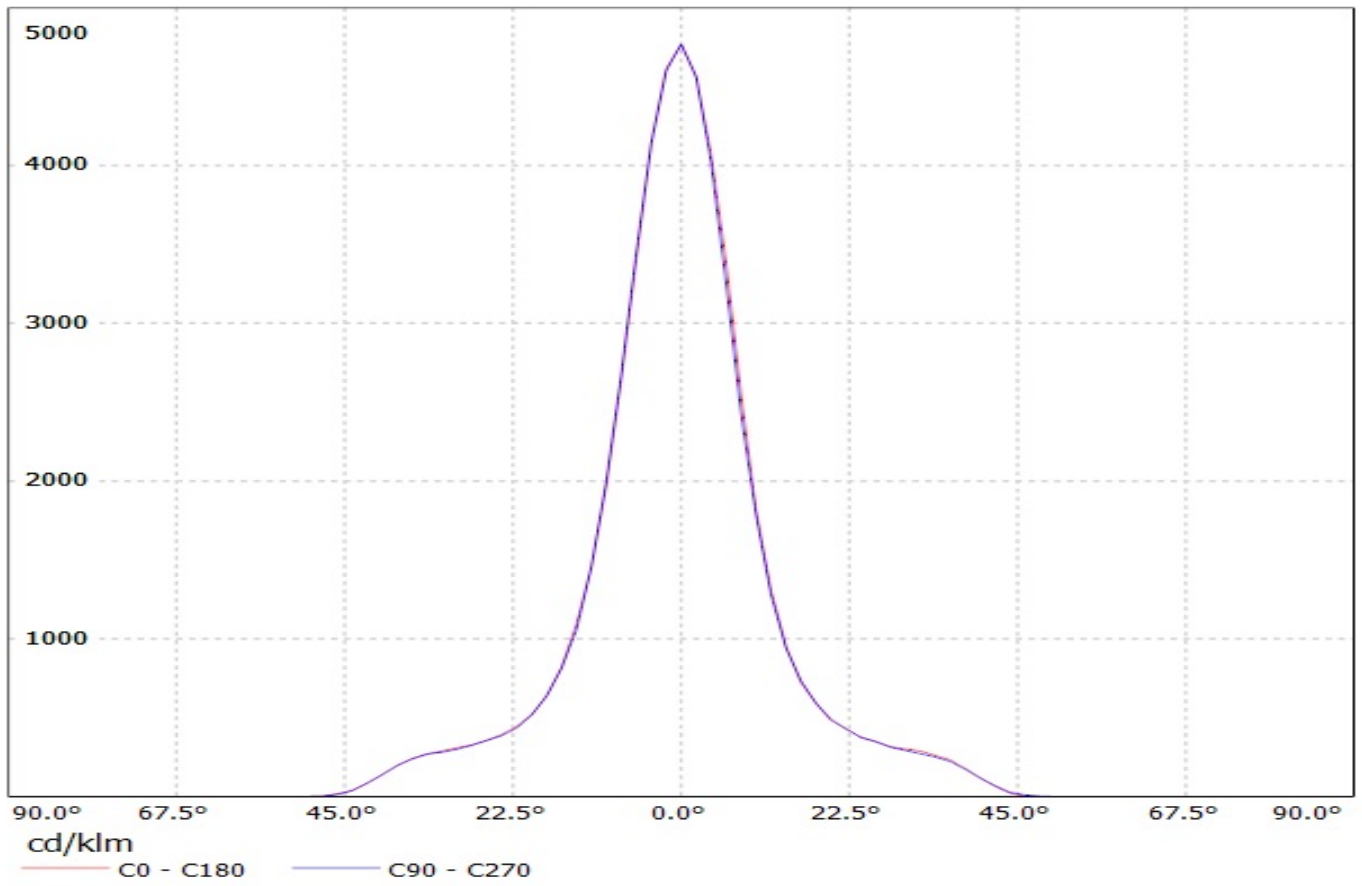
Luminaire: LEDil Oy C12476\_MIRELLA-50-S\_(Soleriq\_S13) Efficiency=87%  
Lamps: 1 x Osram Soleriq S13 (GW KAGHB1.EM) 832lm @ 250mA CCT=3100K P=7.4W I=250mA



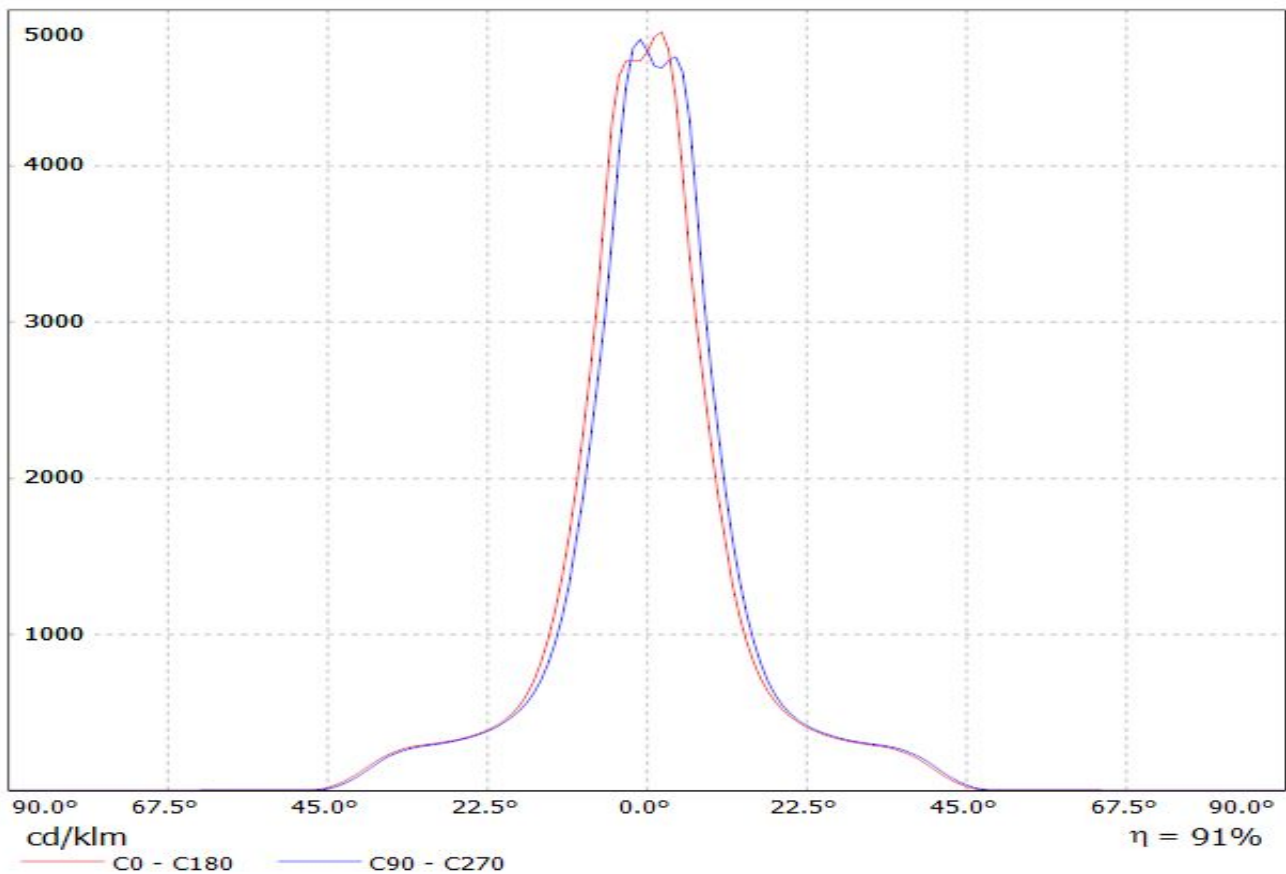
Luminaire: Ledil Oy C12476\_MIRELLA-50-S\_(Soleriq\_S9)\_SIMULATED  
Lamps: 1 x Osram Soleriq S9 (GW KAJFB3.EM)



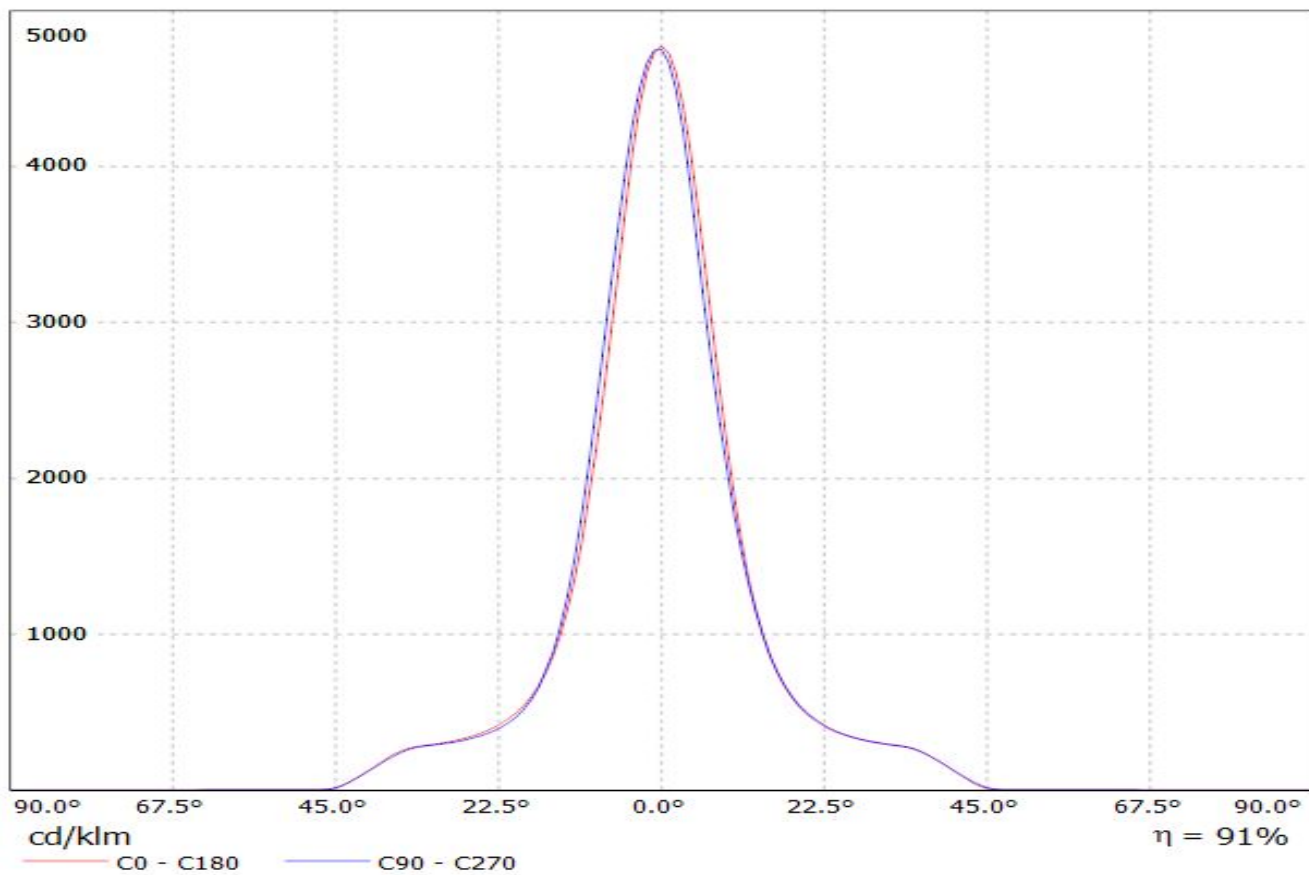
Luminaire: LEDil Oy C12476\_MIRELLA-50-S\_(ZC6) Efficiency=88%  
Lamps: 1 x Seoul ZC6 (SDW81F1c) 422lm @ 100mA CCT=3100K P=3.4W I=100mA



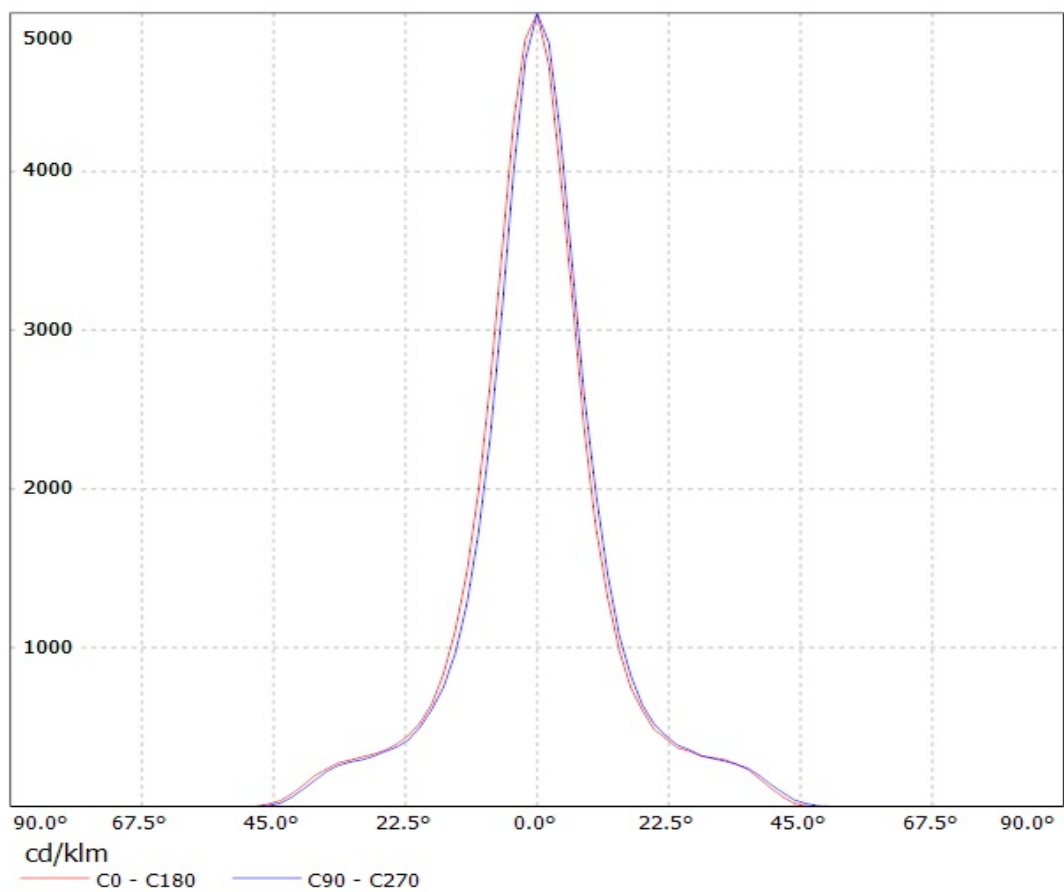
Luminaire: LEDIL OY C12476\_MIRELLA-50-S\_(MiniZenigata) Eff.91.6%  
Lamps: 1 x Mini Zenigata (387.5lm@250mA)



Luminaire: LEDiL Oy C12476\_MIRELLA-50-S\_(Mini\_Zenigata) Eff.91.1%  
Lamps: 1 x Mini\_Zenigata GW6BM (803.772lm@250mA)

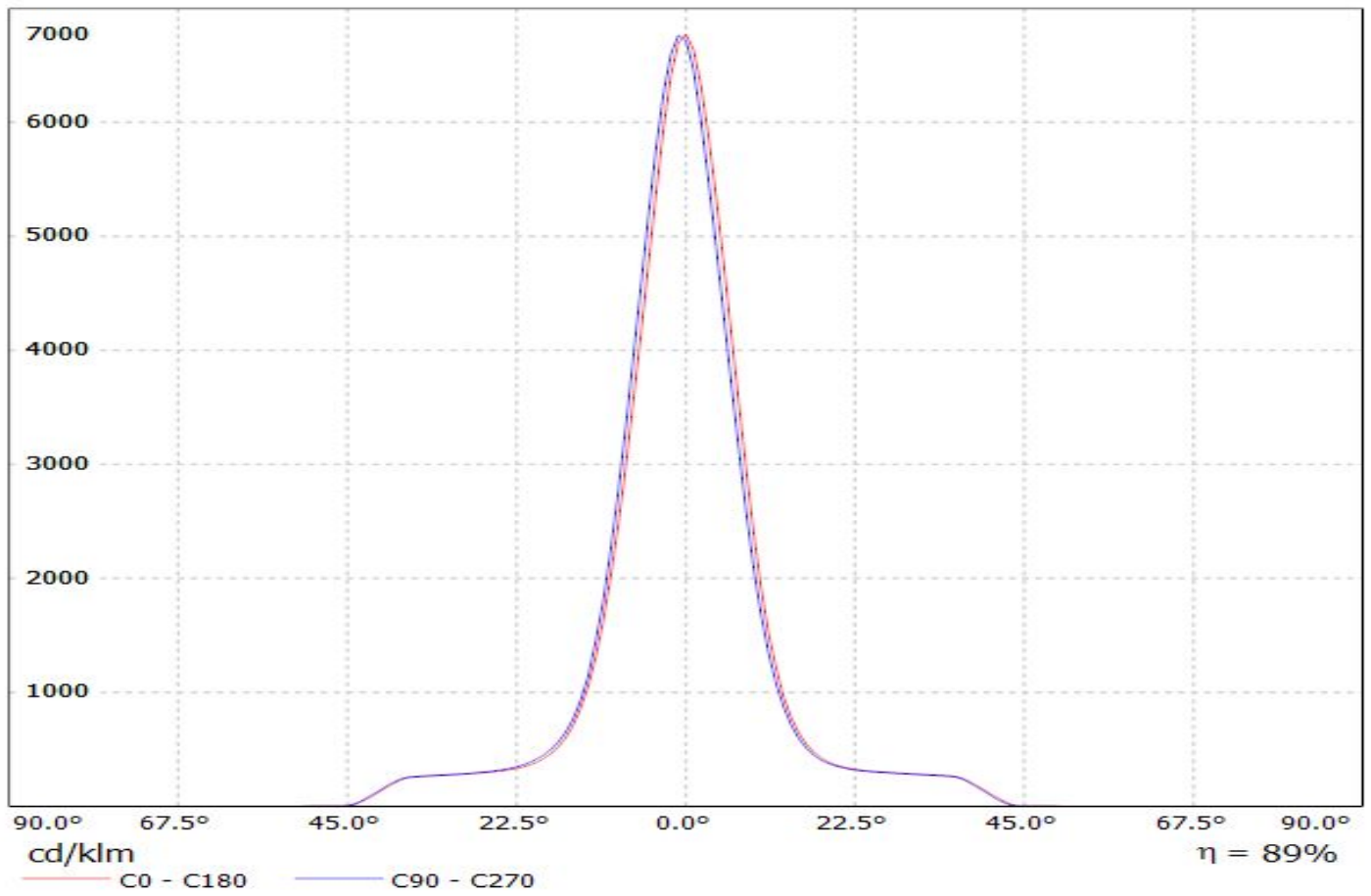


Luminaire: LEDil Oy C12476\_MIRELLA-50-S\_(Stark\_SLE\_G3\_LES10) Efficiency=88%  
Lamps: 1 x Tridonic Stark SLE G3 LES10 (STARK-SLE-PURE-G3-10-1000-830-CLA) 453lm @ 250mA CCT=3000K P=4.3W I=250mA

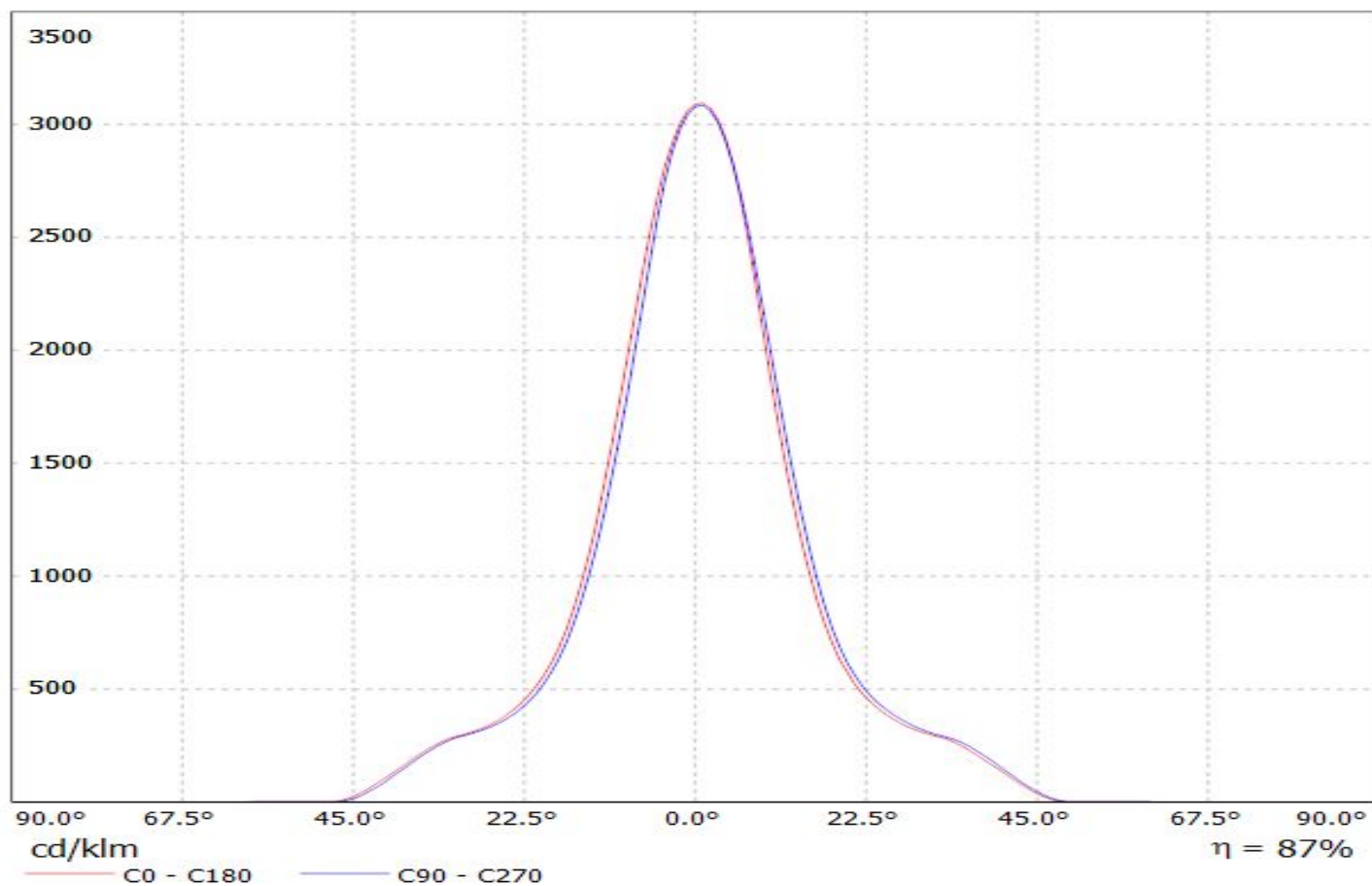




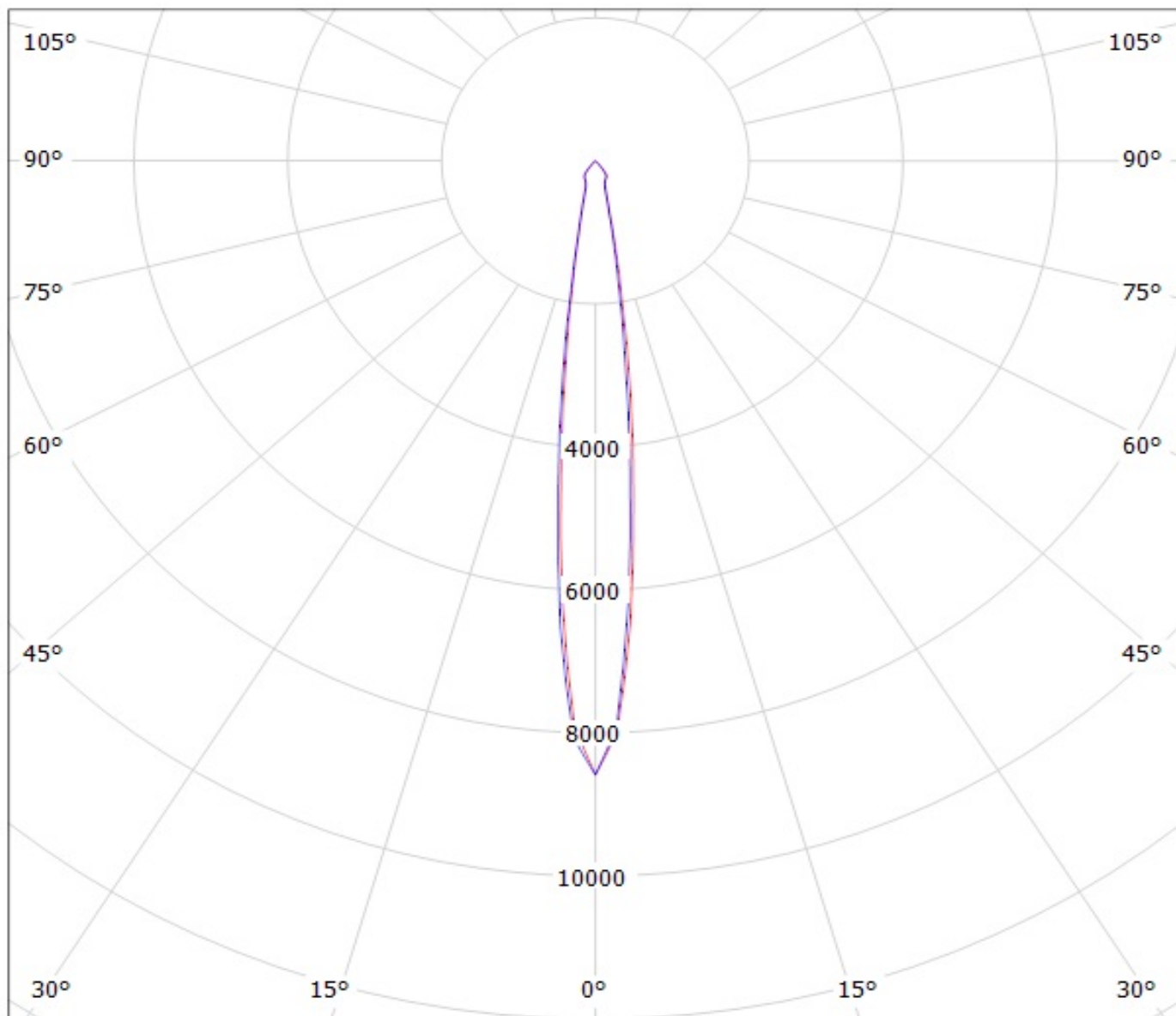
Luminaire: LEDiL Oy C12476\_MIRELLA-50-S\_(SLE-G5\_LES-6)  
Lamps: 1 x Tridonic\_SLE-G5\_LES-6\_470.59lm@100mA\_P=3.3748W\_I=0.100A



Luminaire: LEDiL Oy C12476\_MIRELLA-50-S\_(SLE-G5\_LES-11)  
Lamps: 1 x Tridonic\_SLE-G5\_LES-11\_1168.86lm@250mA\_P=8.3243W\_I=0.250A



Luminaire: Ledil Oy C12476\_MIRELLA-50-S (Bridgelux LS 170lm @ 250mA) Efficiency=89%  
Lamps: 1 x Bridgelux LS 170lm @ 250mA



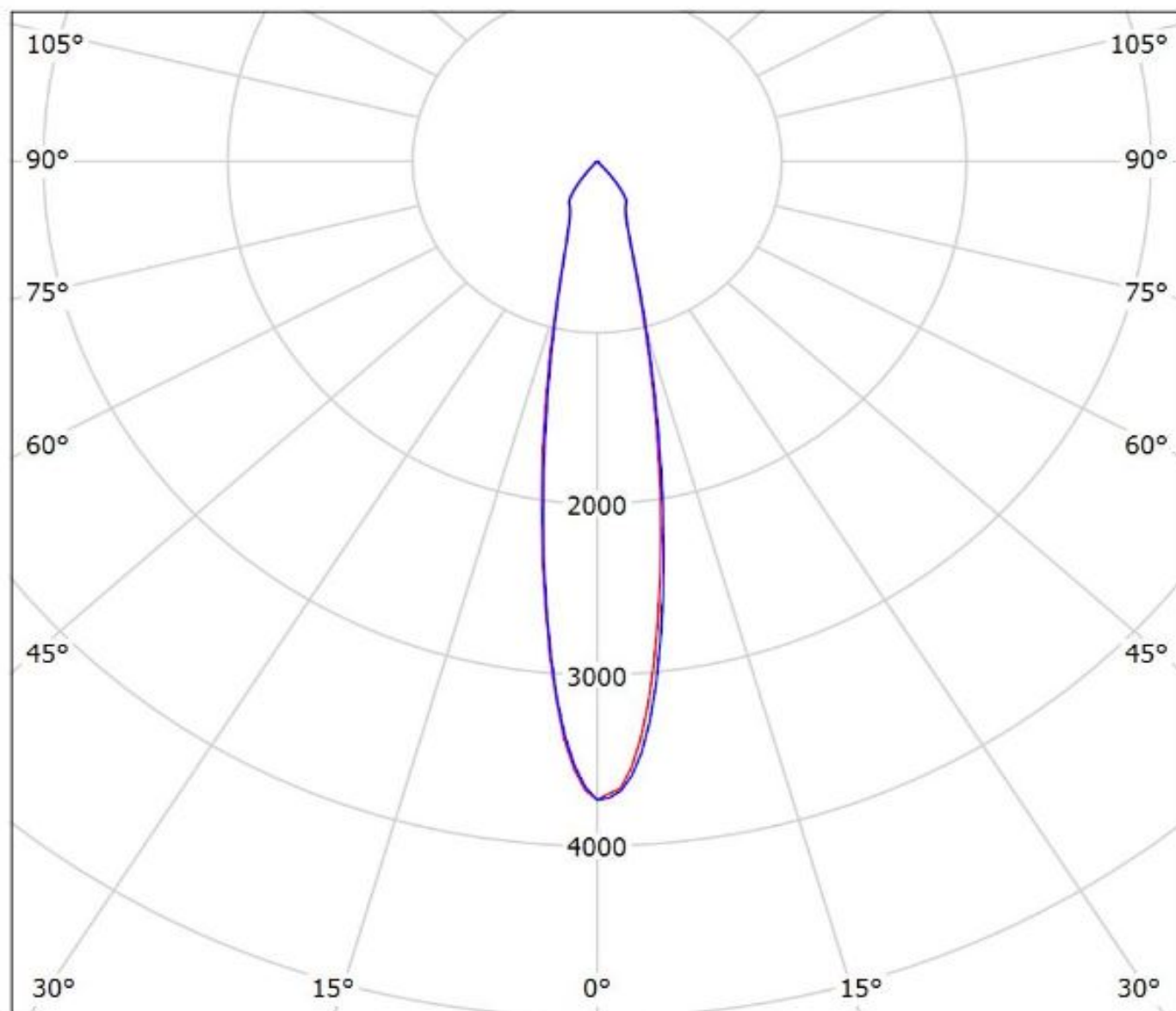
cd/klm

— C0 - C180

— C90 - C270

Luminaire: Ledil C12476\_MIRELLA-50-S\_(CLU710)

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

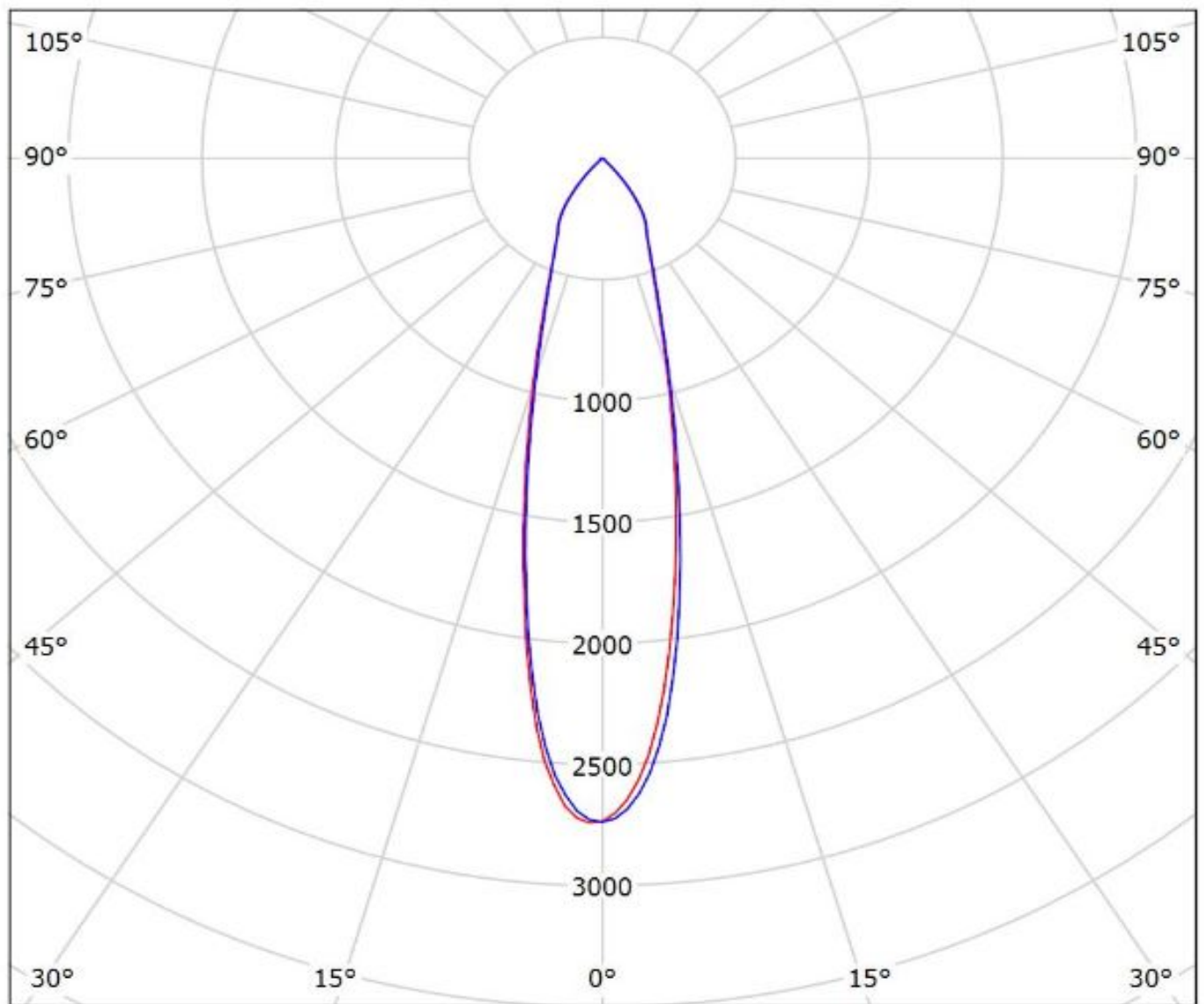


cd/klm

— C0 - C180 — C90 - C270

$\eta = 90\%$

Luminaire: Ledil C12476\_MIRELLA-50-S\_(CLU720)  
Lamps: 1 x CITIZEN\_CLU720\_(CLU720-1206B8-273M2)  
\_1298.17lm@250mA\_CCT=2700K\_P=8.3W\_I=0.25A



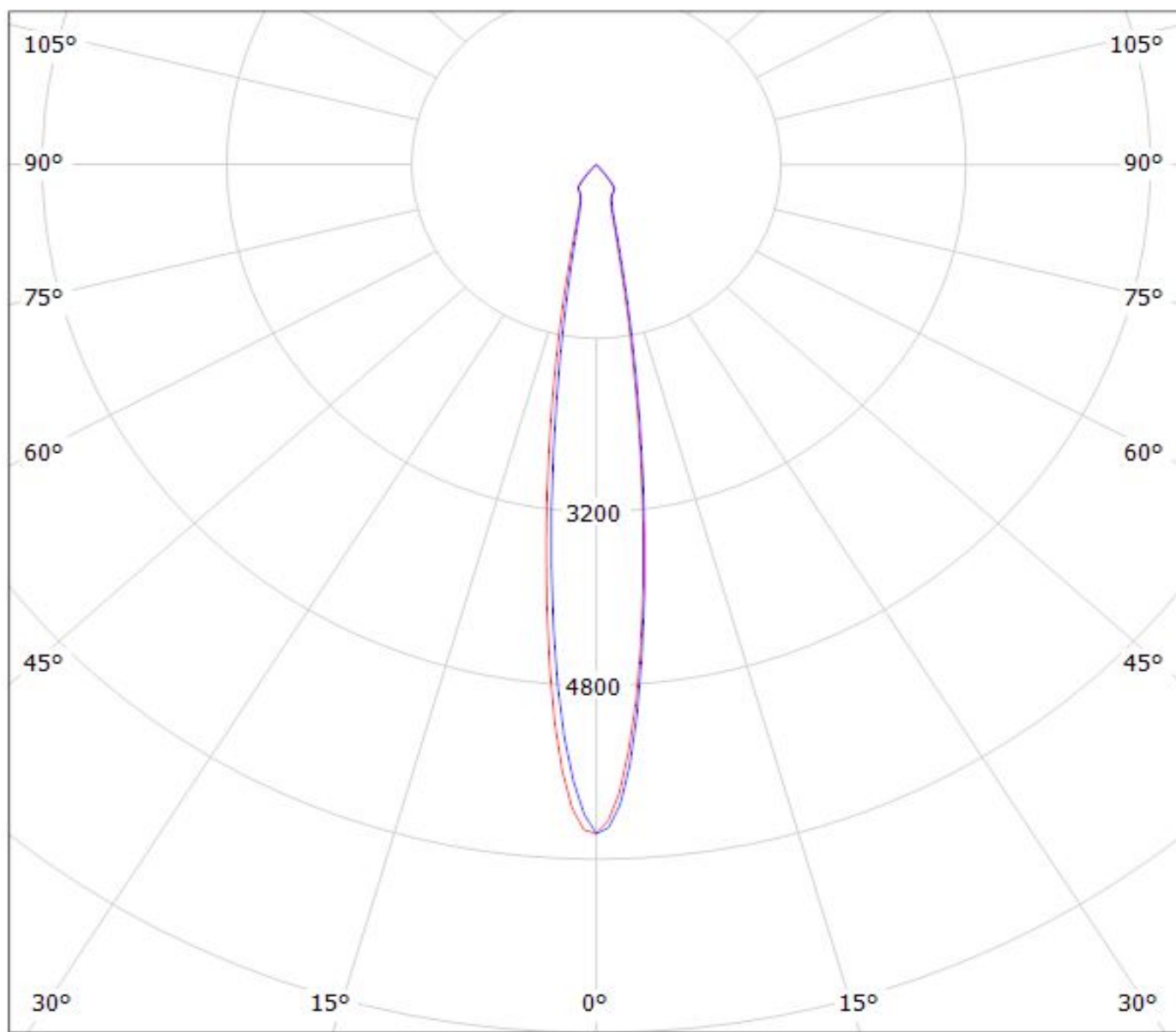
cd/klm

— C0 - C180 — C90 - C270

$\eta = 90\%$

Luminaire: LEDiL Oy C12476\_MIRELLA-50-S\_(CLU700)

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



cd/klm

— C0 - C180

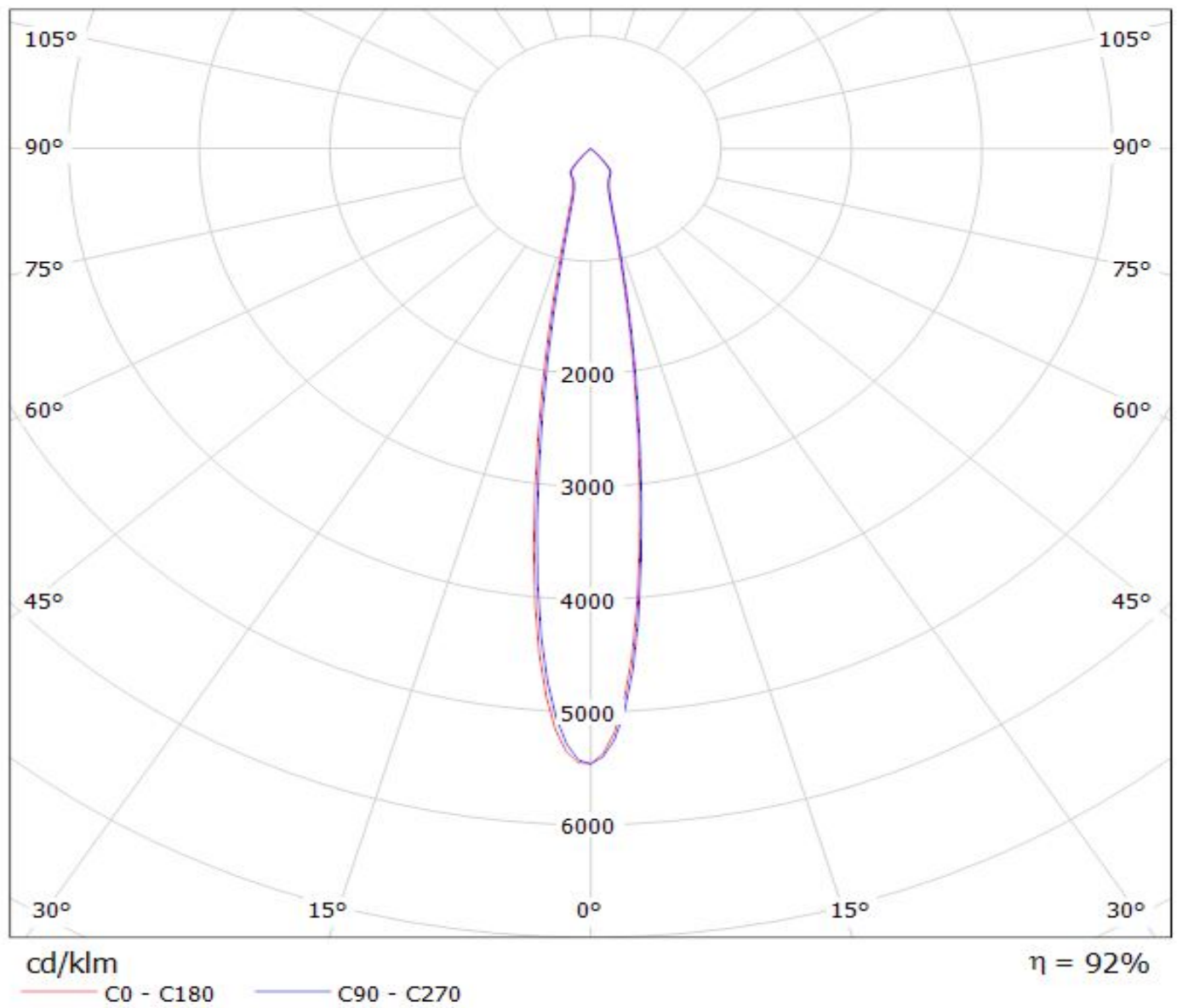
— C90 - C270

$\eta = 90\%$

# LEDiL Oy C12476\_MIRELLA-50-S\_(MT-G2) Eff.92.1% / LDC (Polar)

Luminaire: LEDiL Oy C12476\_MIRELLA-50-S\_(MT-G2) Eff.92.1%

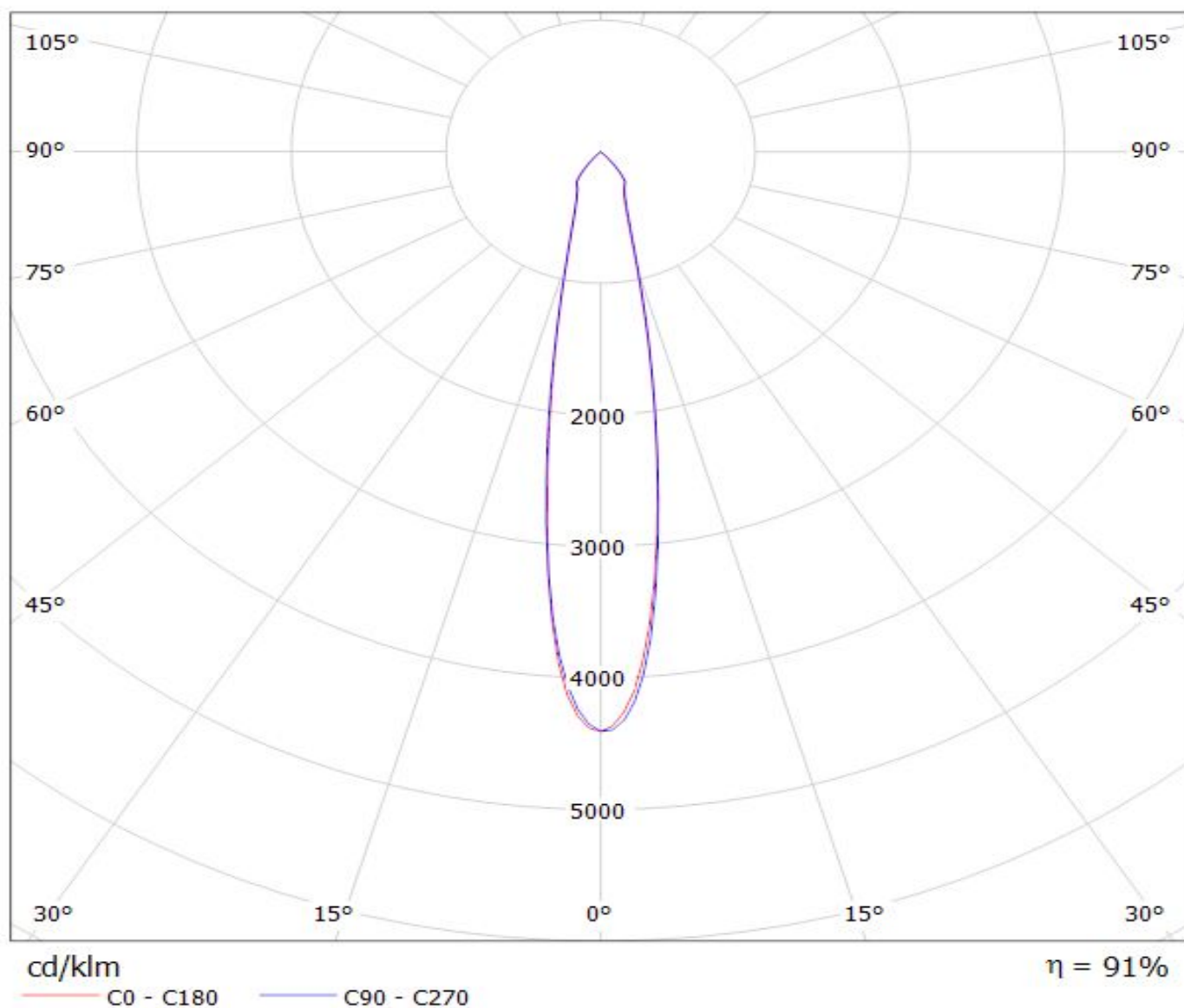
Lamps: 1 x MT-G2 (168lm@250mA)



# LEDiL Oy C12476\_MIRELLA-50-S\_(CXA1507) Eff.91.6% / LDC (Polar)

Luminaire: LEDiL Oy C12476\_MIRELLA-50-S\_(CXA1507) Eff.91.6%

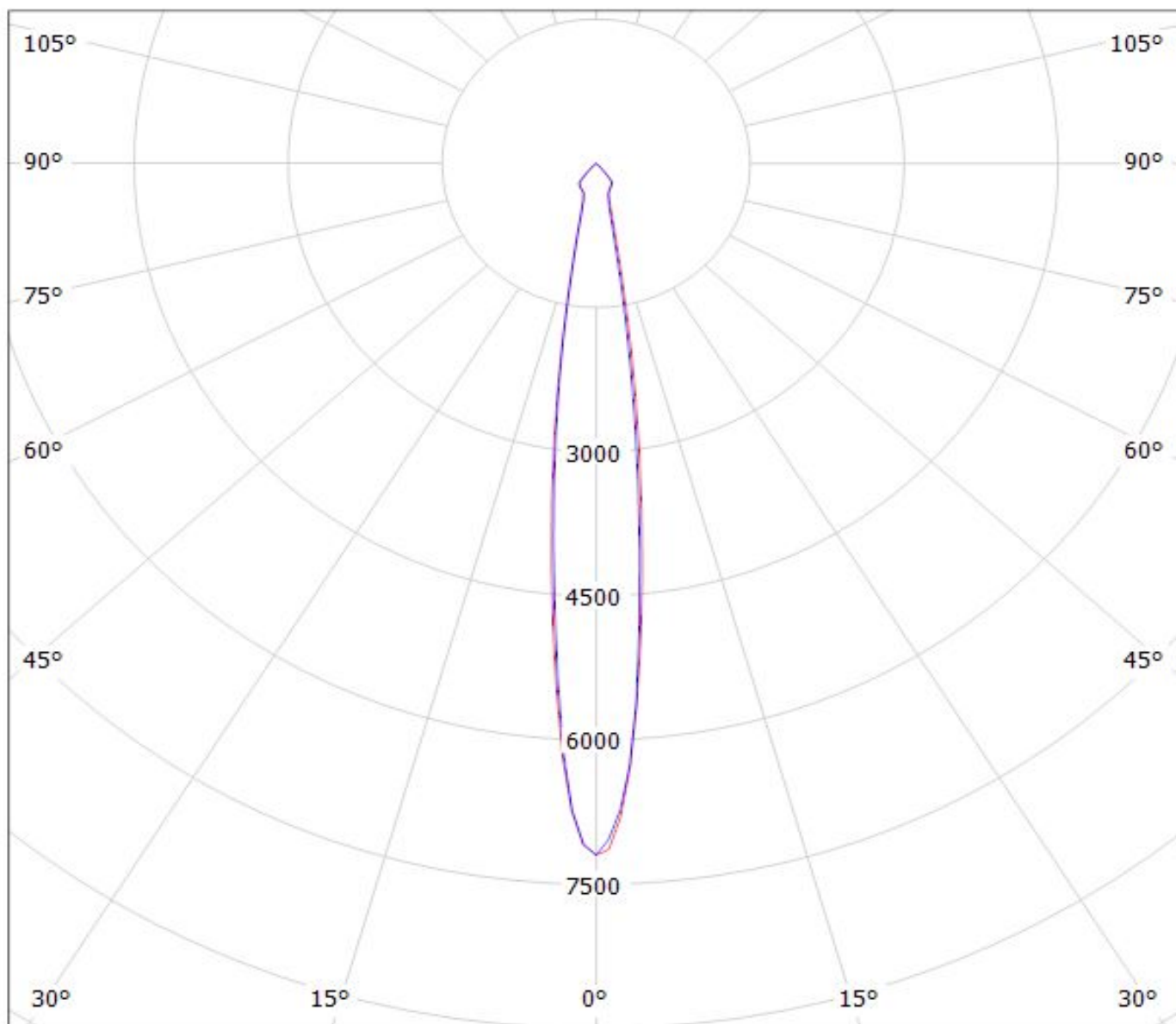
Lamps: 1 x CREE\_CXA1507 (CXA1507-30F-F2-N0A-00000) 238.378lm@50mA CCT=3000K P=1.8506W I=54.5mA





Luminaire: LEDiL Oy C12476\_MIRELLA-50-S\_(Cree\_XHP50\_WW)

Lamps: 1 x Cree\_XHP50\_WW\_196.271lm@250mA\_P=1.39897W\_I=0.2499A



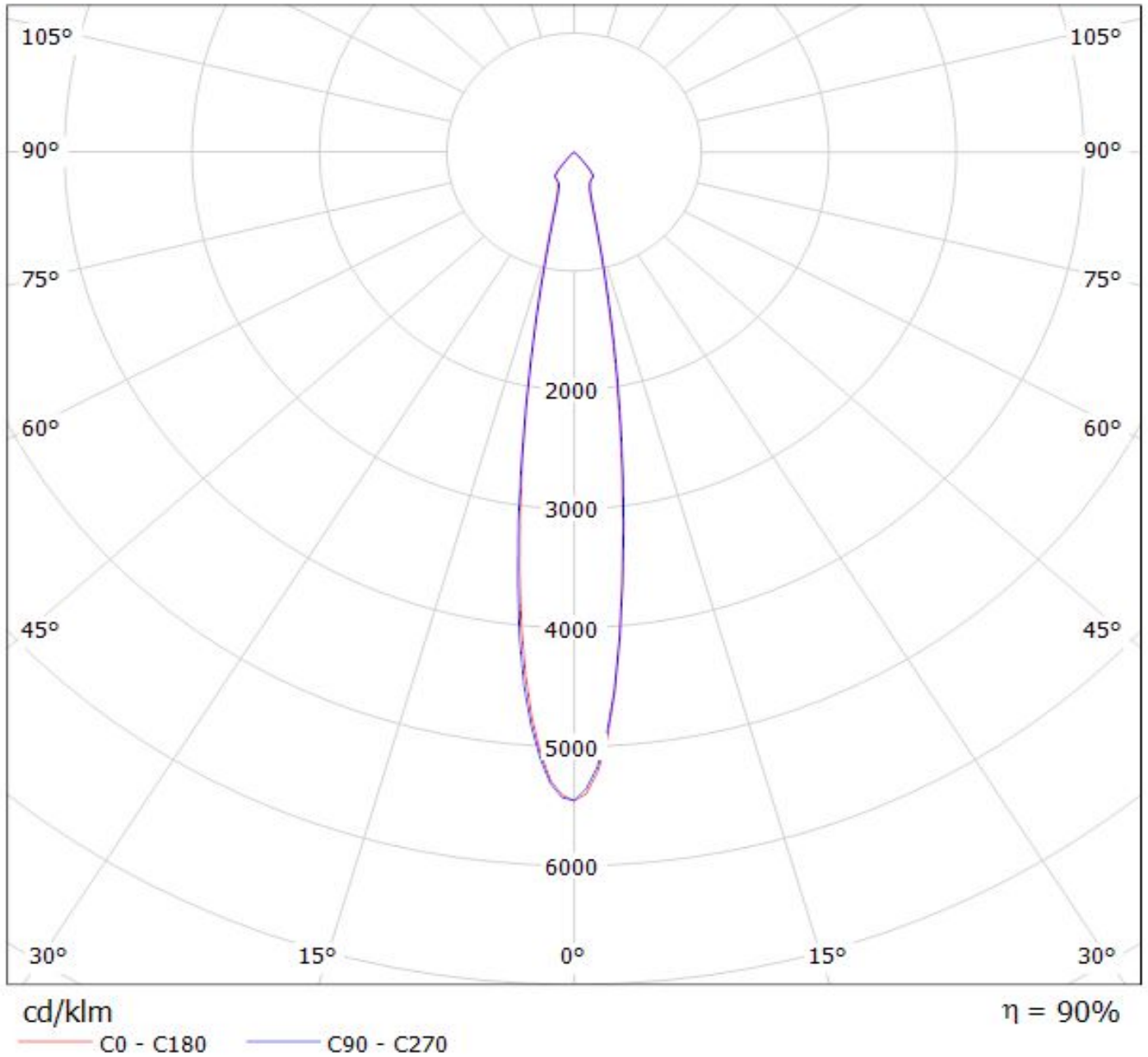
cd/klm

— C0 - C180

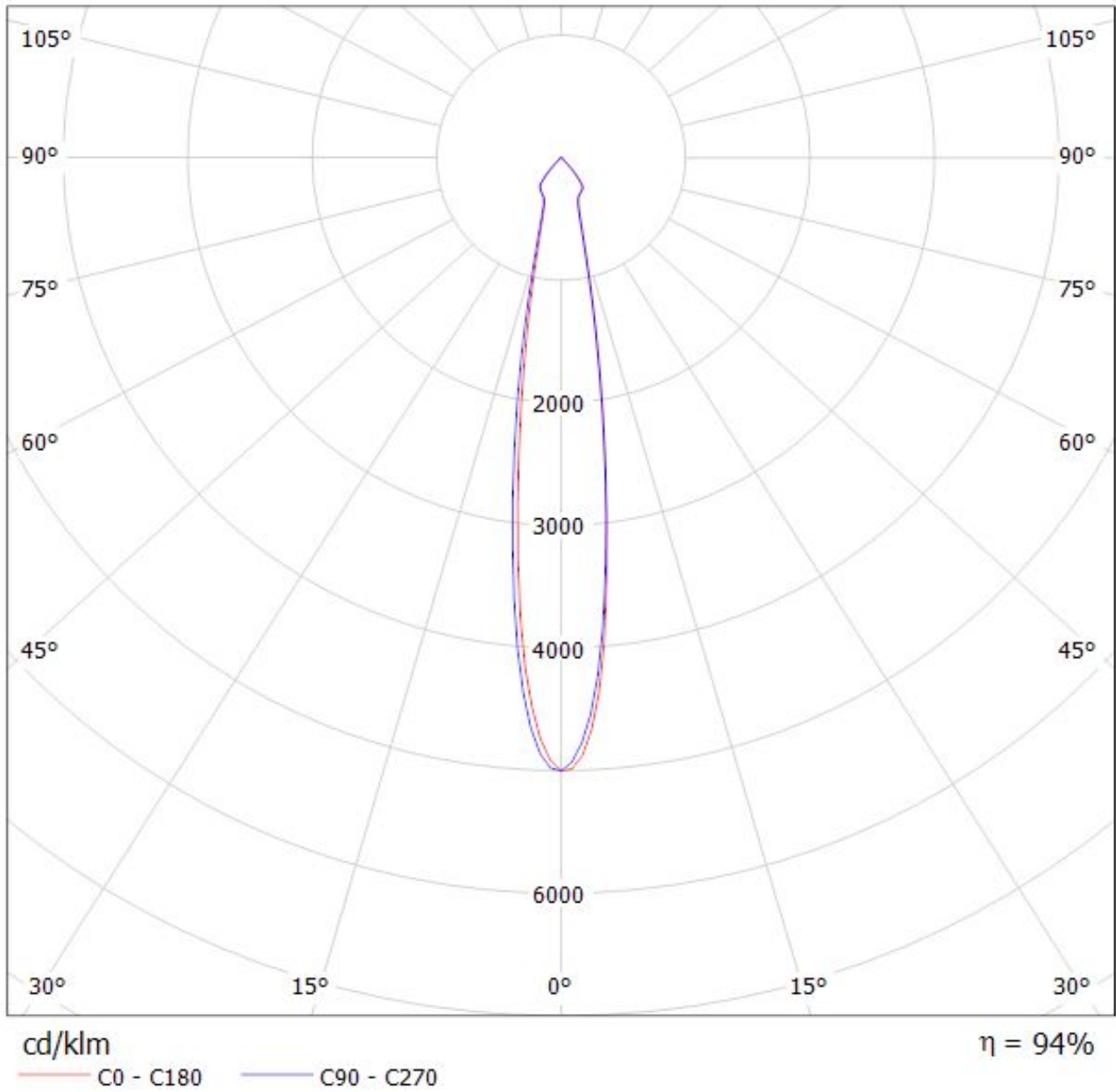
— C90 - C270

$\eta = 92\%$

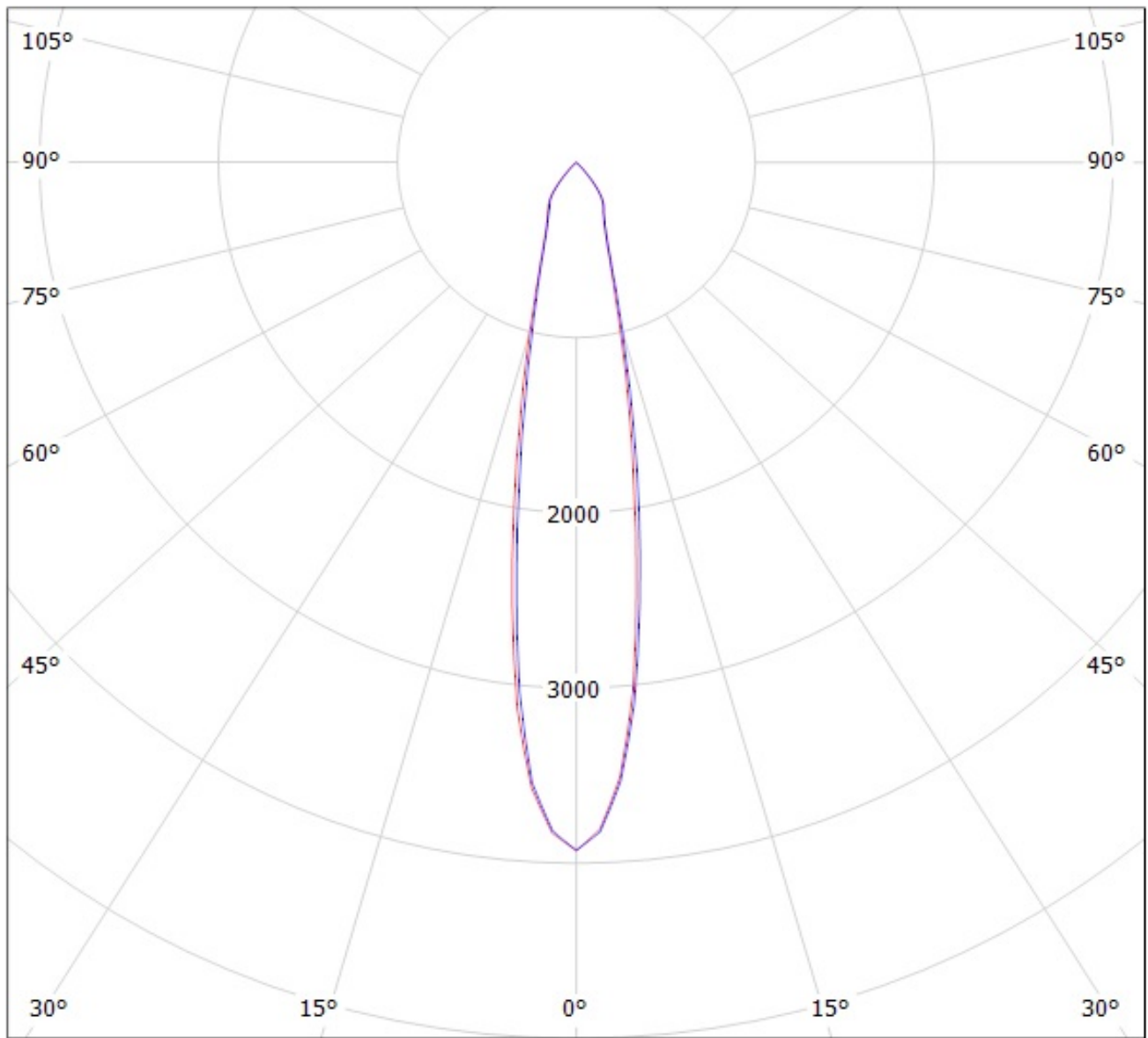
Luminaire: LEDiL Oy C12476\_MIRELLA-50-S\_(CREE\_XHP70)  
Lamps: 1 x CREE\_XHP70\_260.549lm@250mA\_P=1.38255W\_I=0.2499A



Luminaire: Ledil C12476\_MIRELLA-50-S\_(MHD-G)  
Lamps: 1 x Cree MHD-G\_528.649lm@100mA\_P=3.0W\_I=0.100A



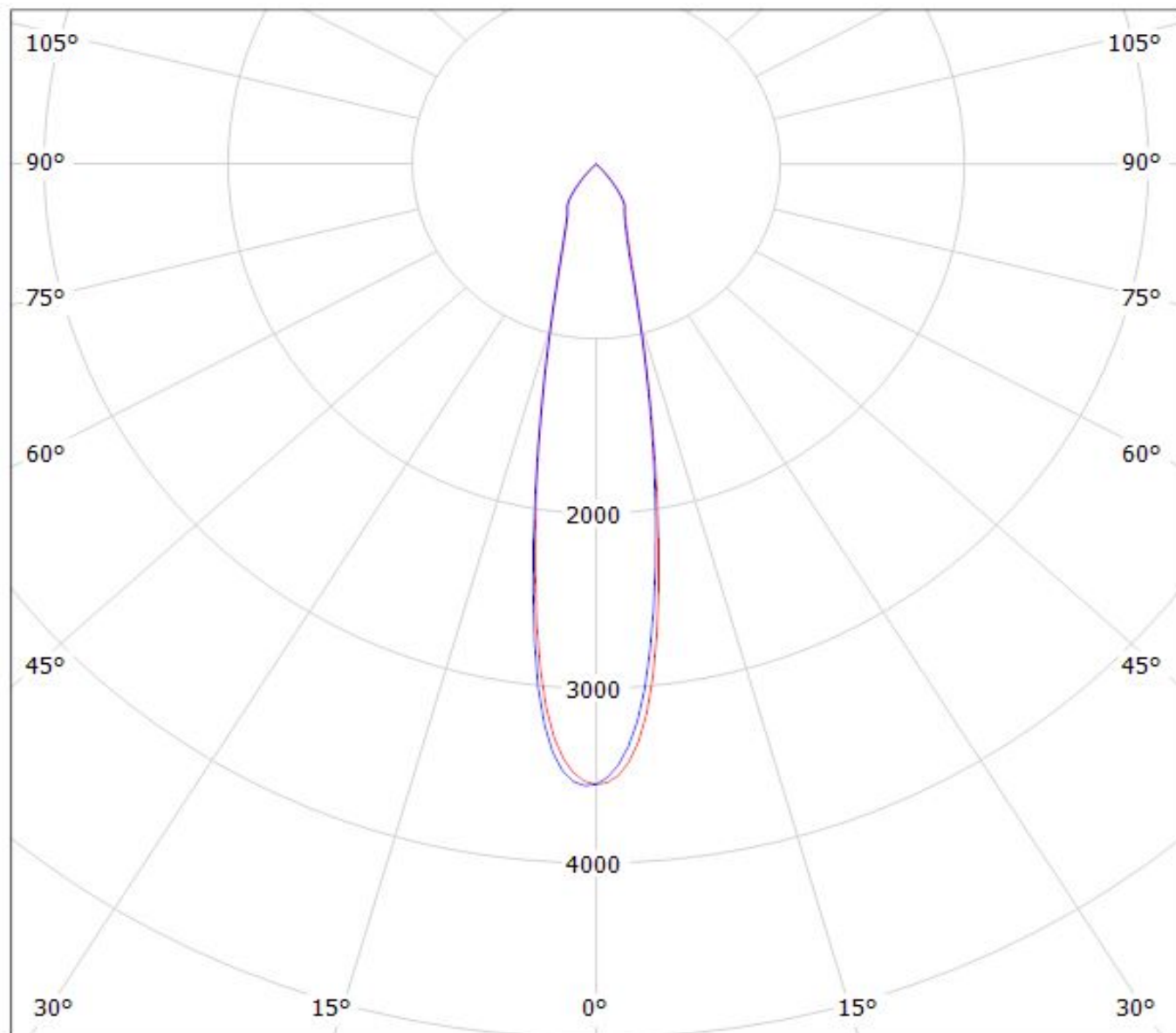
Luminaire: Ledil Oy C12476\_MIRELLA-50-S\_(Luxeon\_CoB\_1203) Efficiency= 89%  
Lamps: 1 x Luxeon Cob 1203 (LHC1-3080-1203) 824lm @ 250mA CCT=3000K P=8,7W I=250mA



cd/klm  
— C0 - C180    — C90 - C270

Luminaire: LEDiL Oy C12476\_MIRELLA-50-S\_(CXM-9)

Lamps: 1 x Luminus\_XNOVA\_CXM-9\_(AA00)\_977.302lm@240mA\_P=8.28264W\_I=240mA

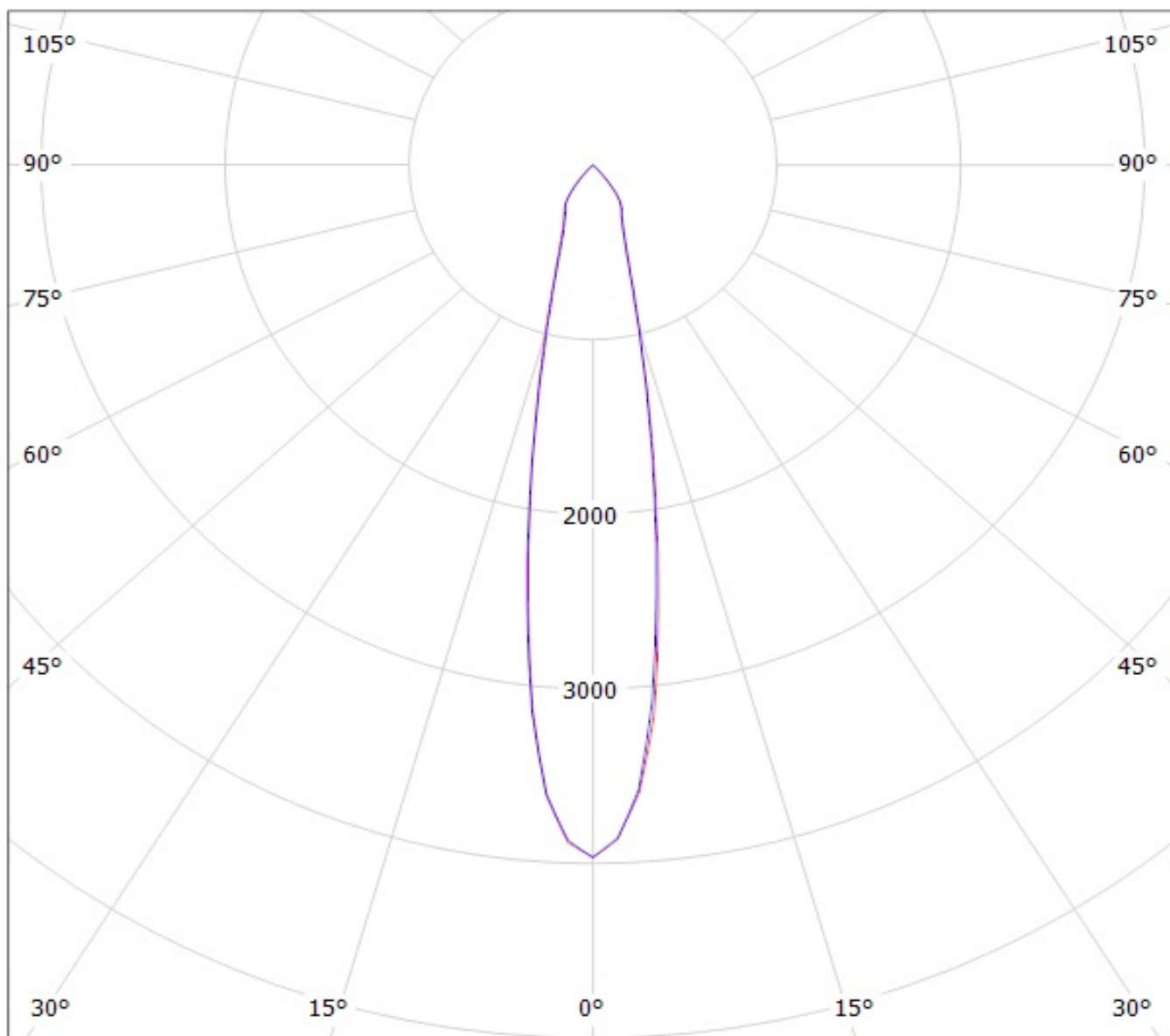


cd/klm

$\eta = 90\%$

— C0 - C180    — C90 - C270

Luminaire: Ledil Oy C12476\_MIRELLA-50-S (NSBxL066A 930lm @ 250mA) Efficiency=90%  
Lamps: 1 x NSBxL066A 930lm @ 250mA (NSBLL066AE) CCT=3536K P=7,75W I=250mA

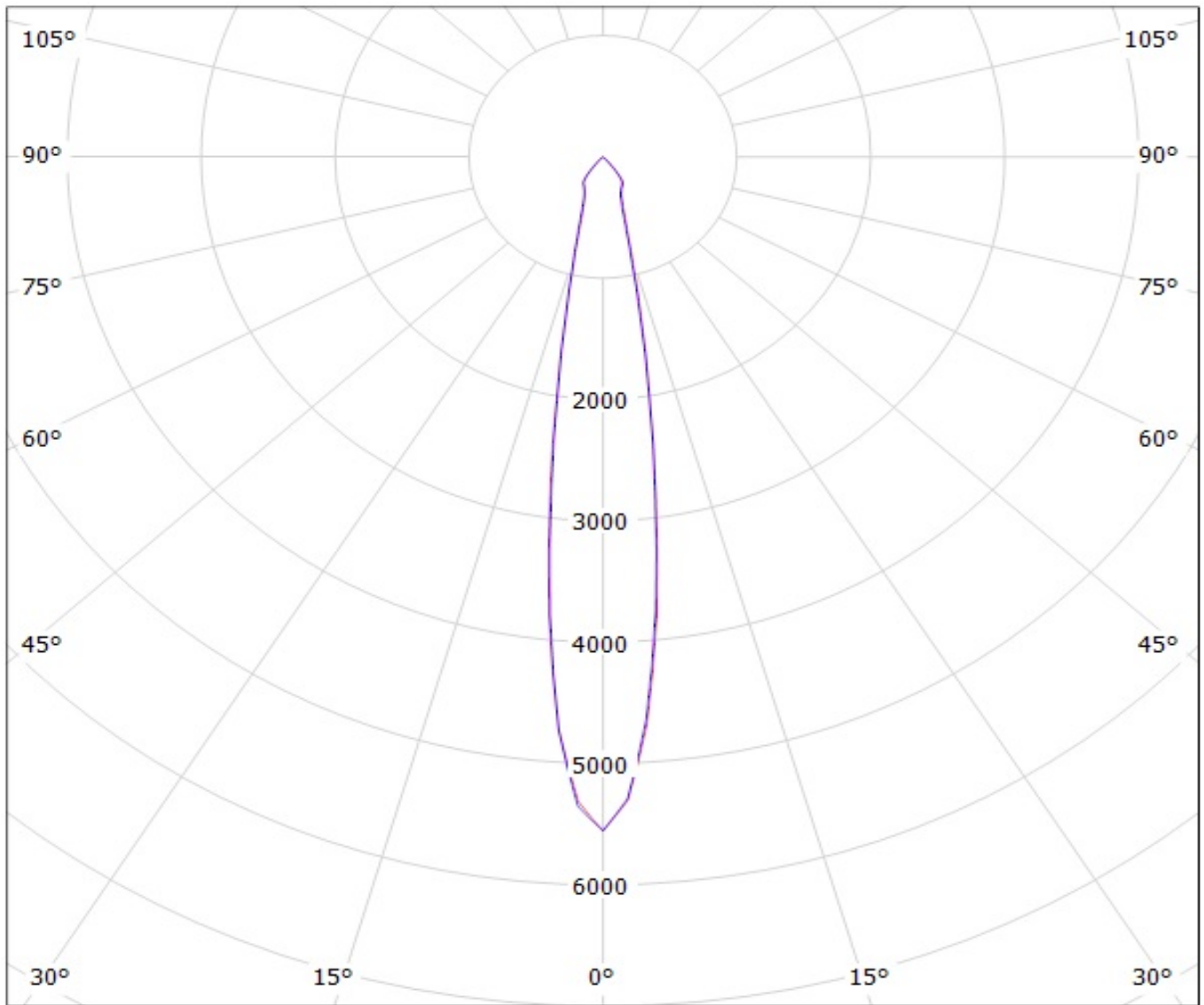


cd/klm

— C0 - C180

— C90 - C270

Luminaire: Ledil Oy C12476\_MIRELLA-50-S (Nichia NSCxL036A 434lm @ 100mA) Efficiency=88%  
Lamps: 1 x Nichia NSCxL036A 434lm @ 100mA (NSCLL036A) CCT=3000K P=3,4W I=100mA

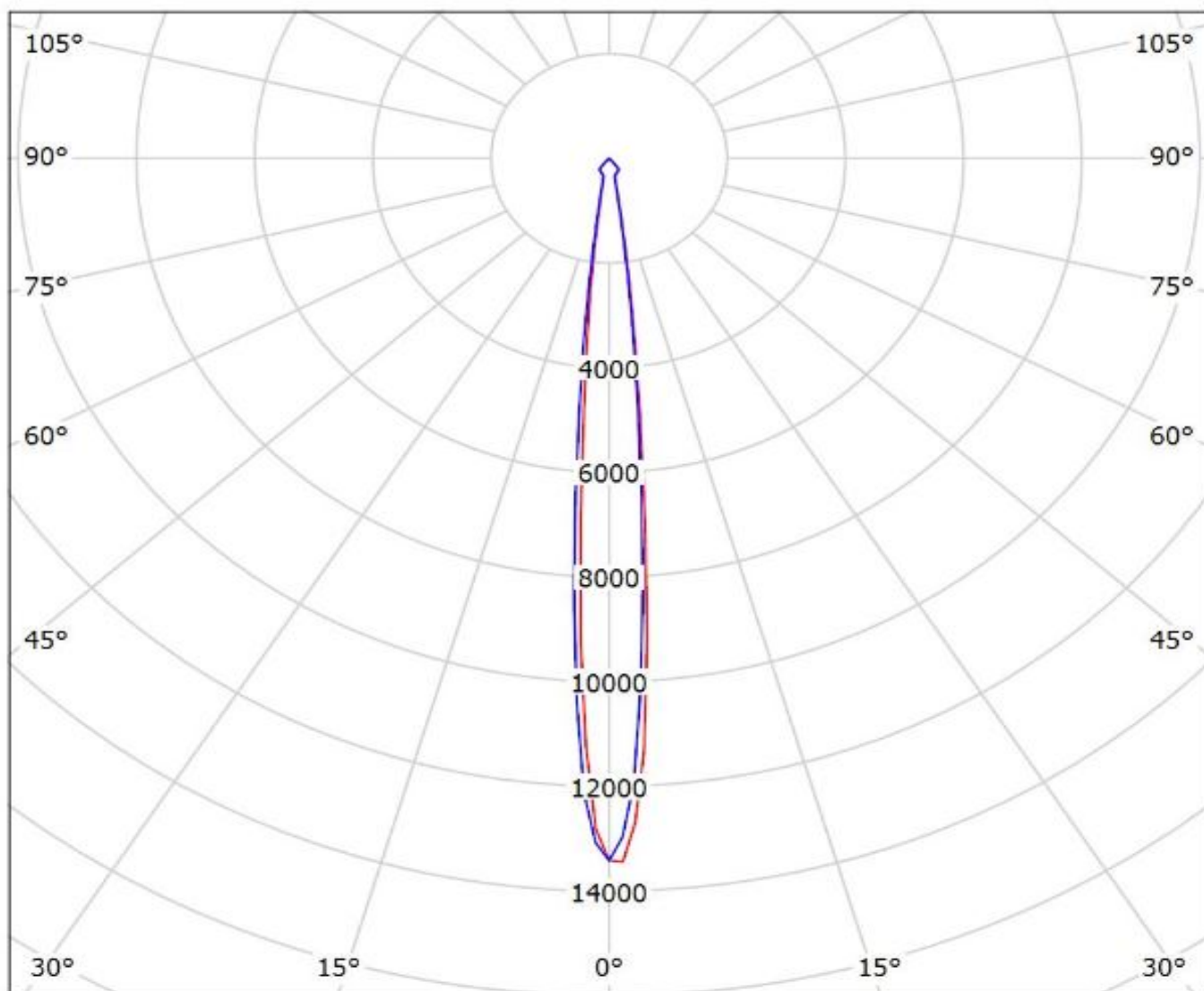


cd/klm

— C0 - C180    — C90 - C270

Luminaire: LEDiL Oy C12476\_MIRELLA-50-S\_(NFMX48xAR\_14chip)\_3000K

Lamps: 1 x Nichia\_NFMX48xAR\_14chip\_(NFMW488AR)\_557.972lm@100mA\_P=4.0701W\_I=0.100A



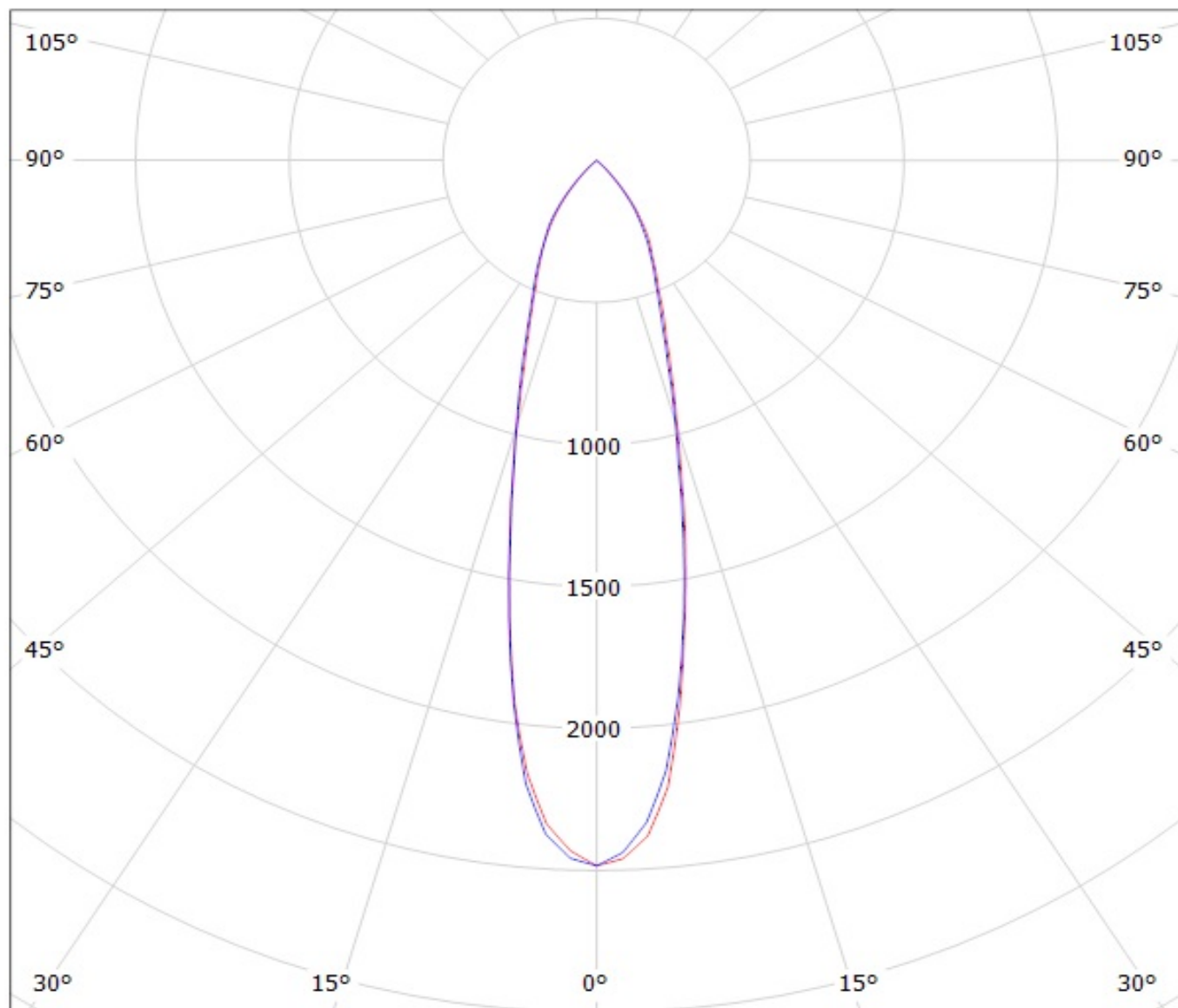
cd/klm

— C0 - C180 — C90 - C270

$\eta = 88\%$



Luminaire: LEDil Oy C12476\_MIRELLA-50-S\_(Soleriq\_S13) Efficiency=87%  
Lamps: 1 x Osram Soleriq S13 (GW KAGHB1.EM) 832lm @ 250mA CCT=3100K P=7.4W I=250mA

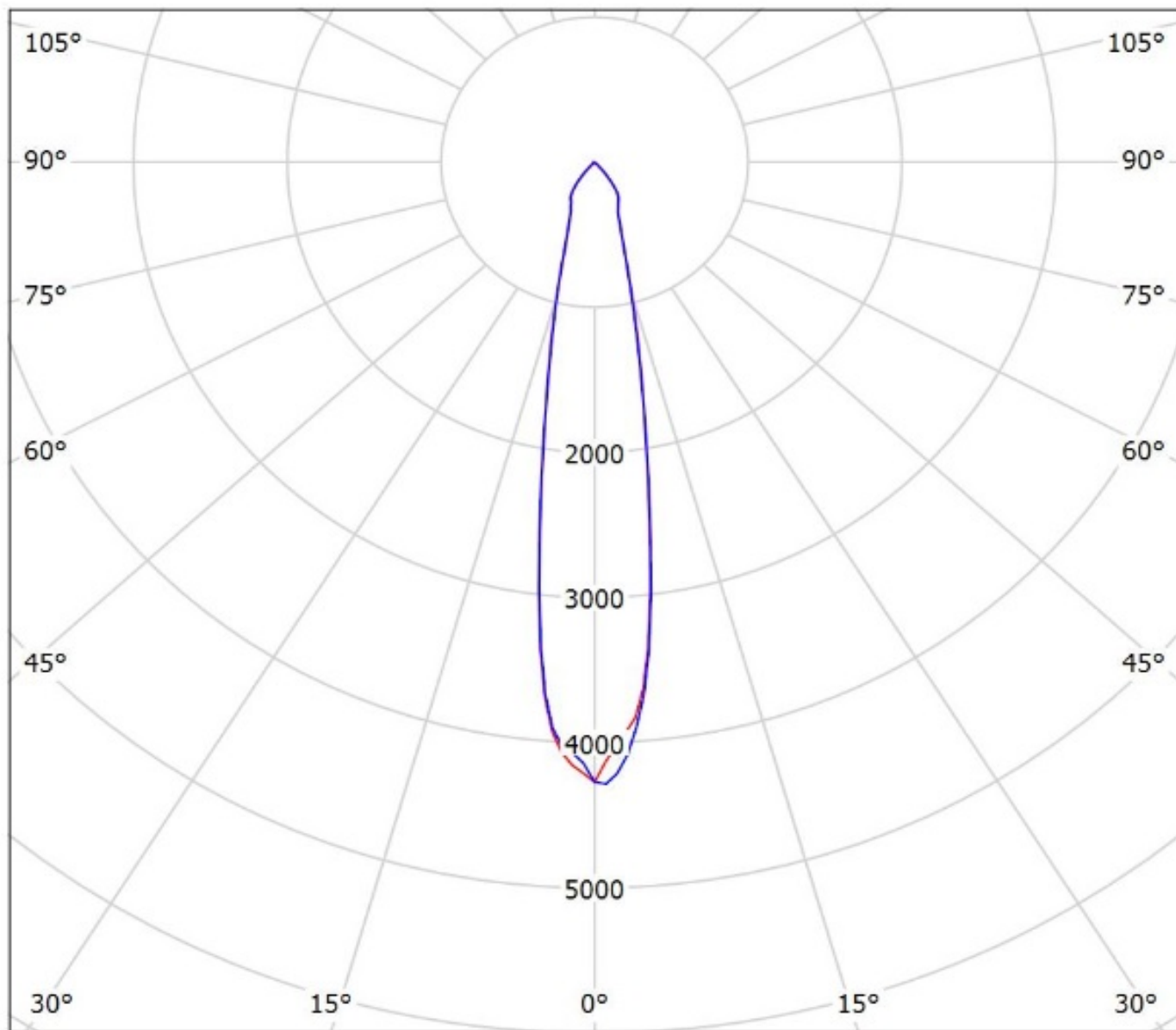


cd/klm

— C0 - C180

— C90 - C270

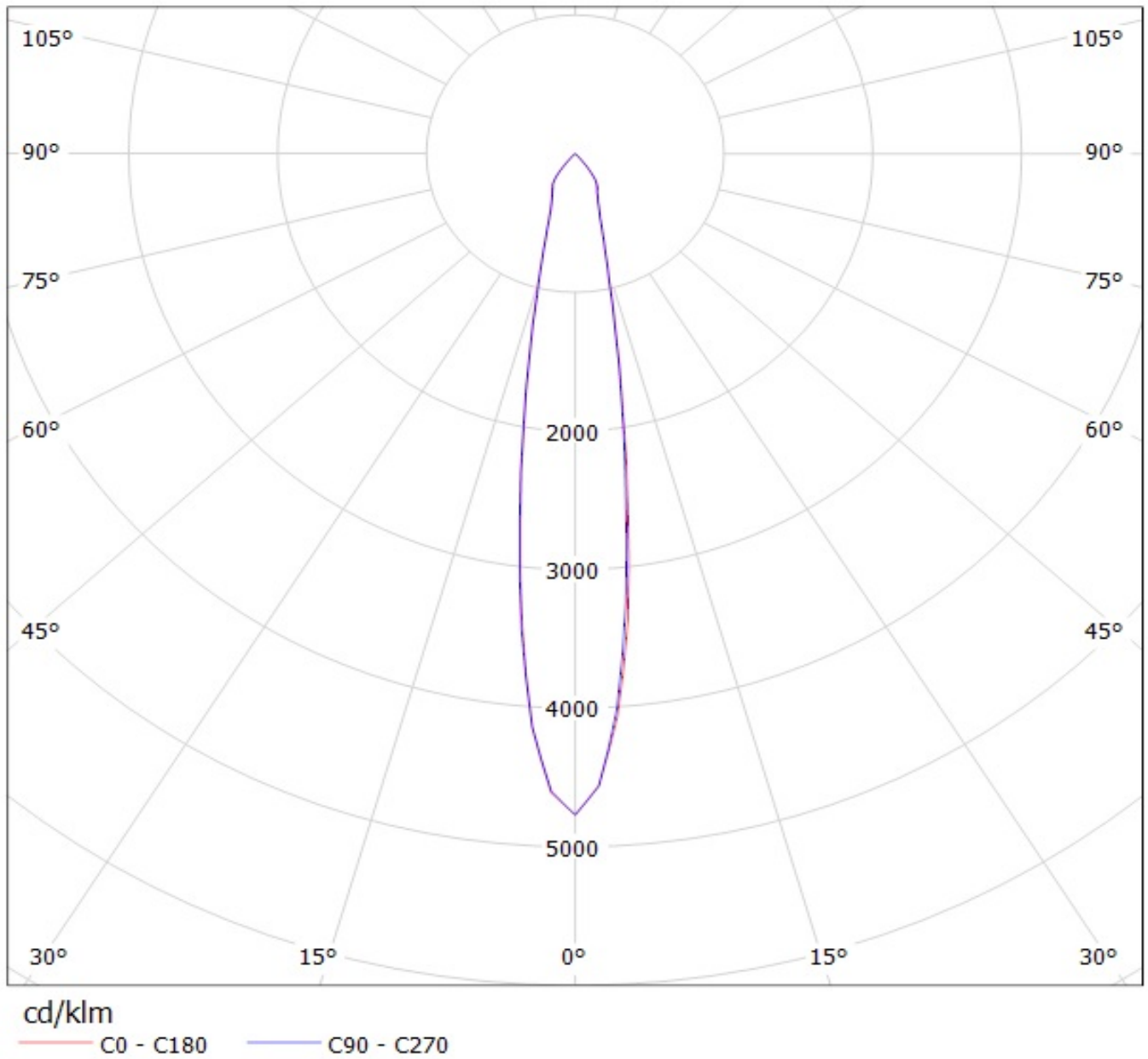
Luminaire: Ledil Oy C12476\_MIRELLA-50-S\_(Soleriq\_S9)\_SIMULATED  
Lamps: 1 x Osram Soleriq S9 (GW KAJFB3.EM)



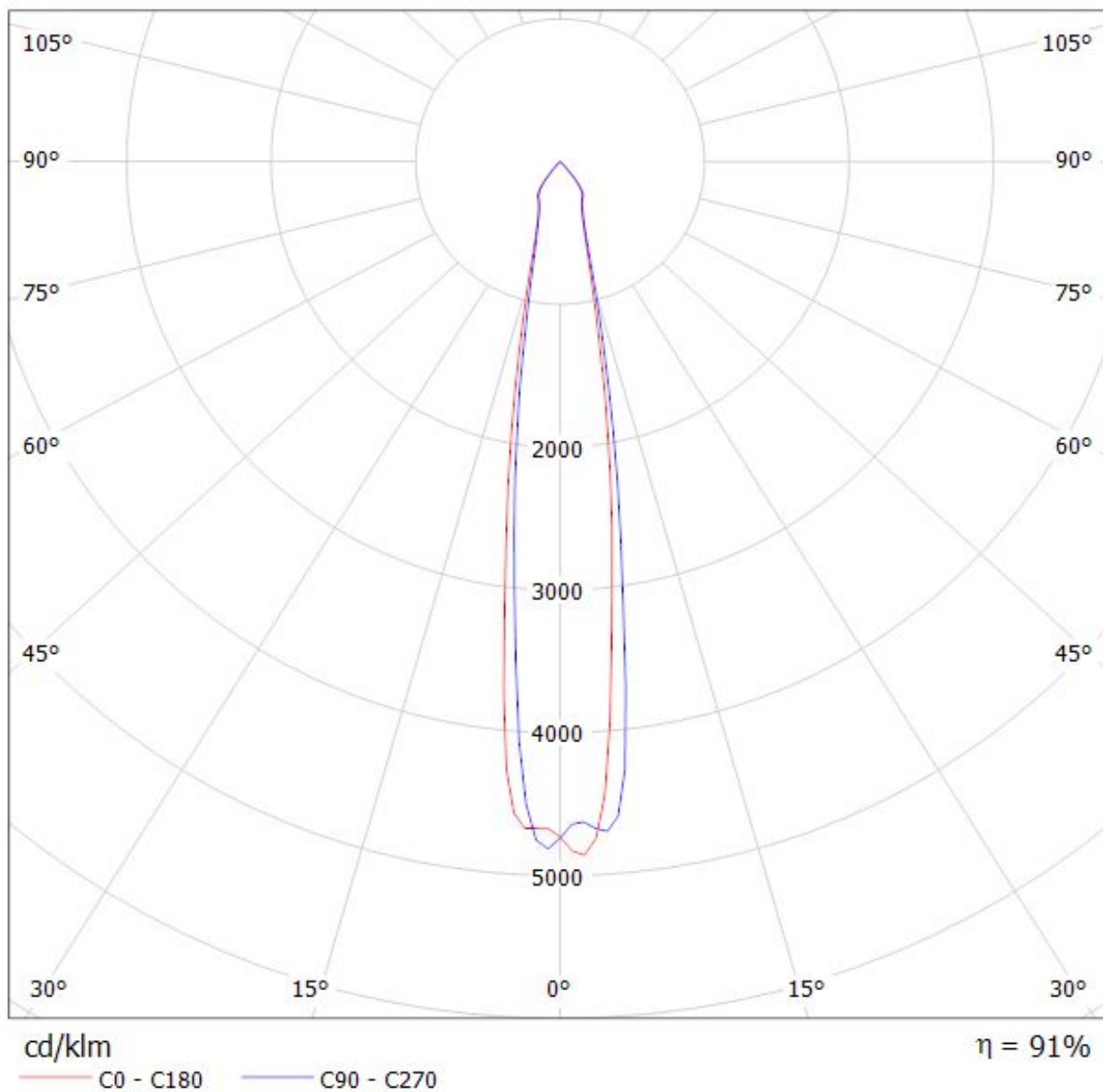
cd/klm  
— C0 - C180 — C90 - C270

$\eta = 91\%$

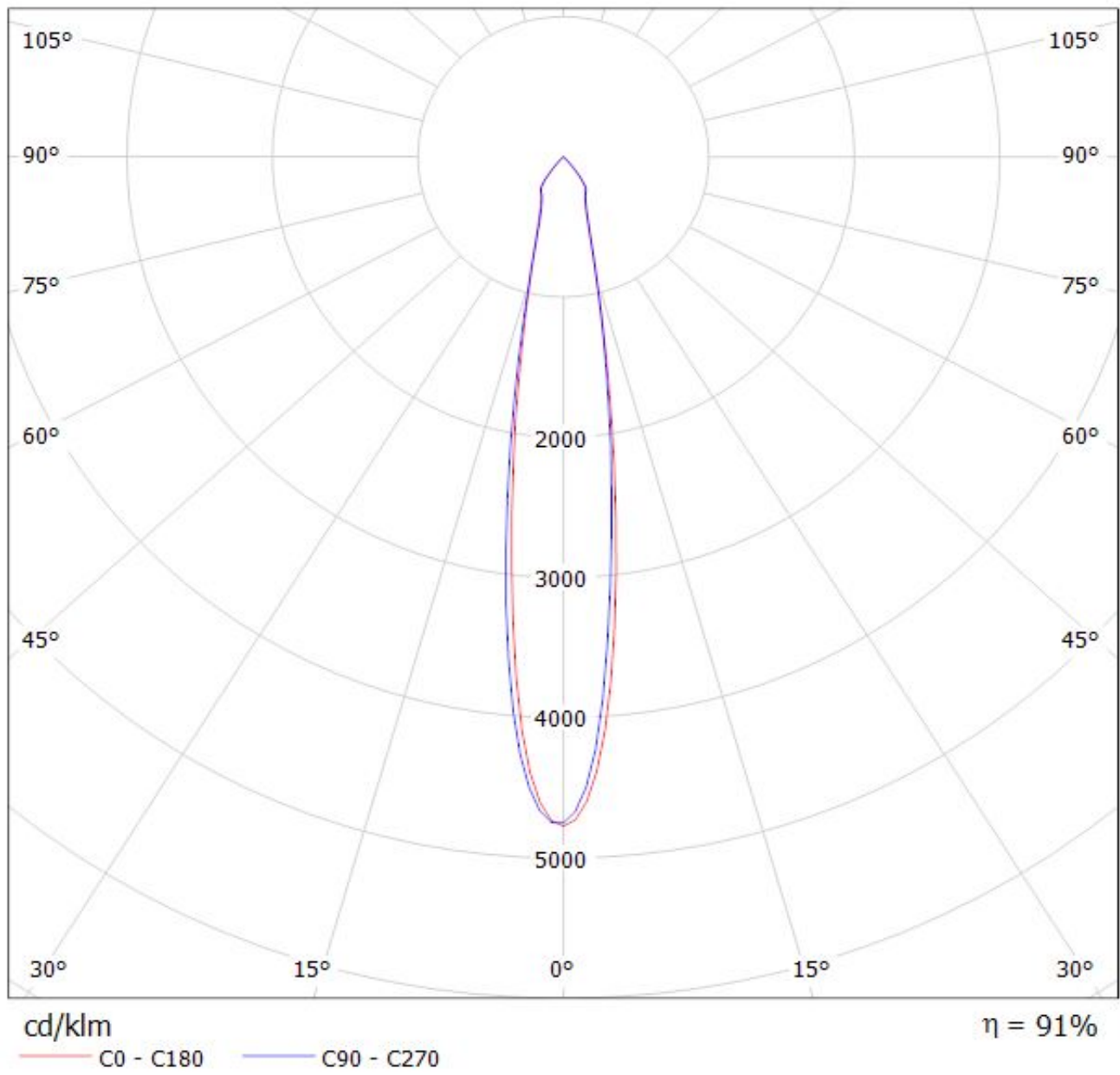
Luminaire: LEDil Oy C12476\_MIRELLA-50-S\_(ZC6) Efficiency=88%  
Lamps: 1 x Seoul ZC6 (SDW81F1c) 422lm @ 100mA CCT=3100K P=3.4W I=100mA



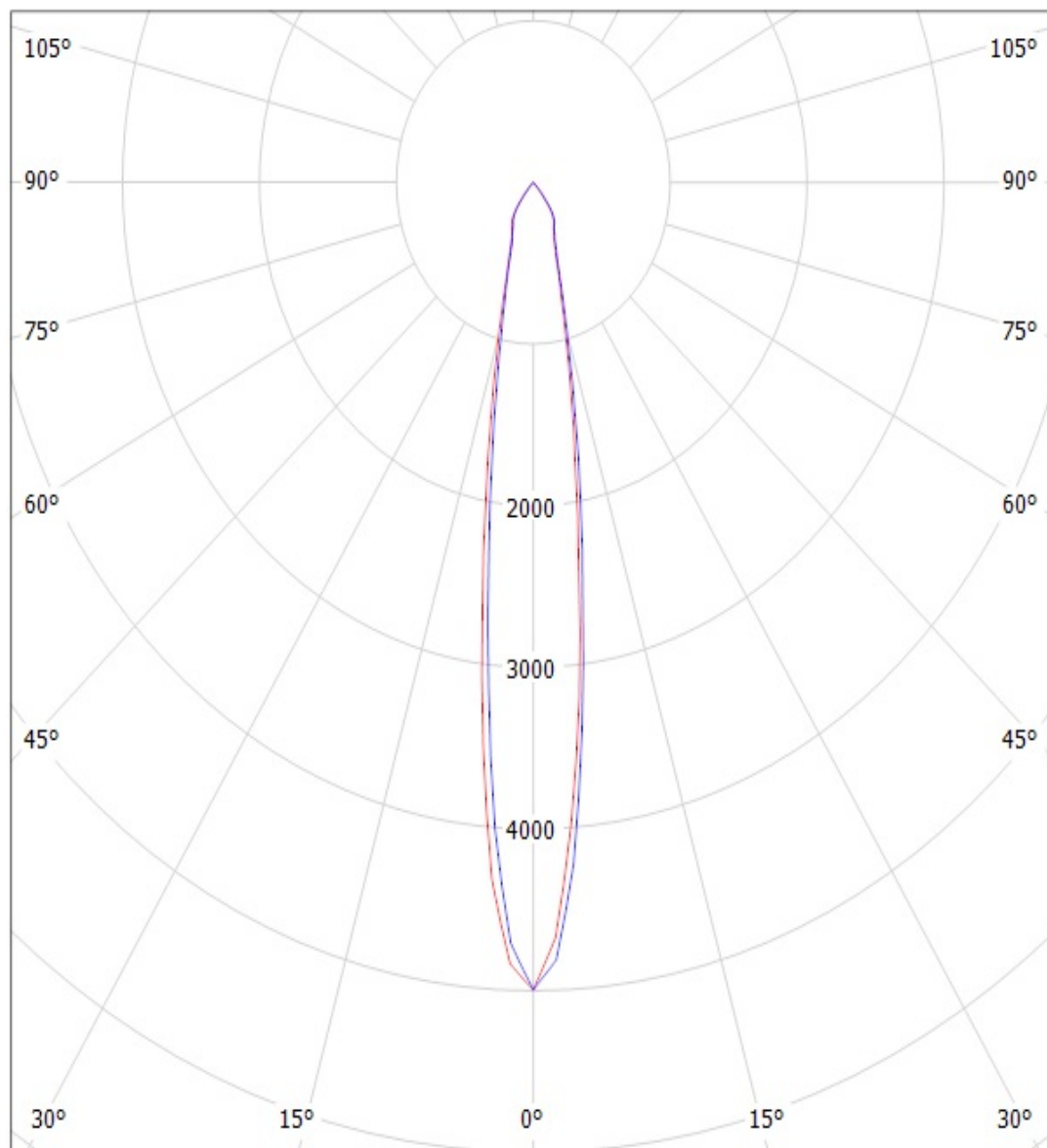
Luminaire: LEDIL OY C12476\_MIRELLA-50-S\_(MiniZenigata) Eff.91.6%  
Lamps: 1 x Mini Zenigata (387.5lm@250mA)



Luminaire: LEDiL Oy C12476\_MIRELLA-50-S\_(Mini\_Zenigata) Eff.91.1%  
Lamps: 1 x Mini\_Zenigata GW6BM (803.772lm@250mA)



Luminaire: LEDil Oy C12476\_MIRELLA-50-S\_(Stark\_SLE\_G3\_LES10) Efficiency=88%  
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

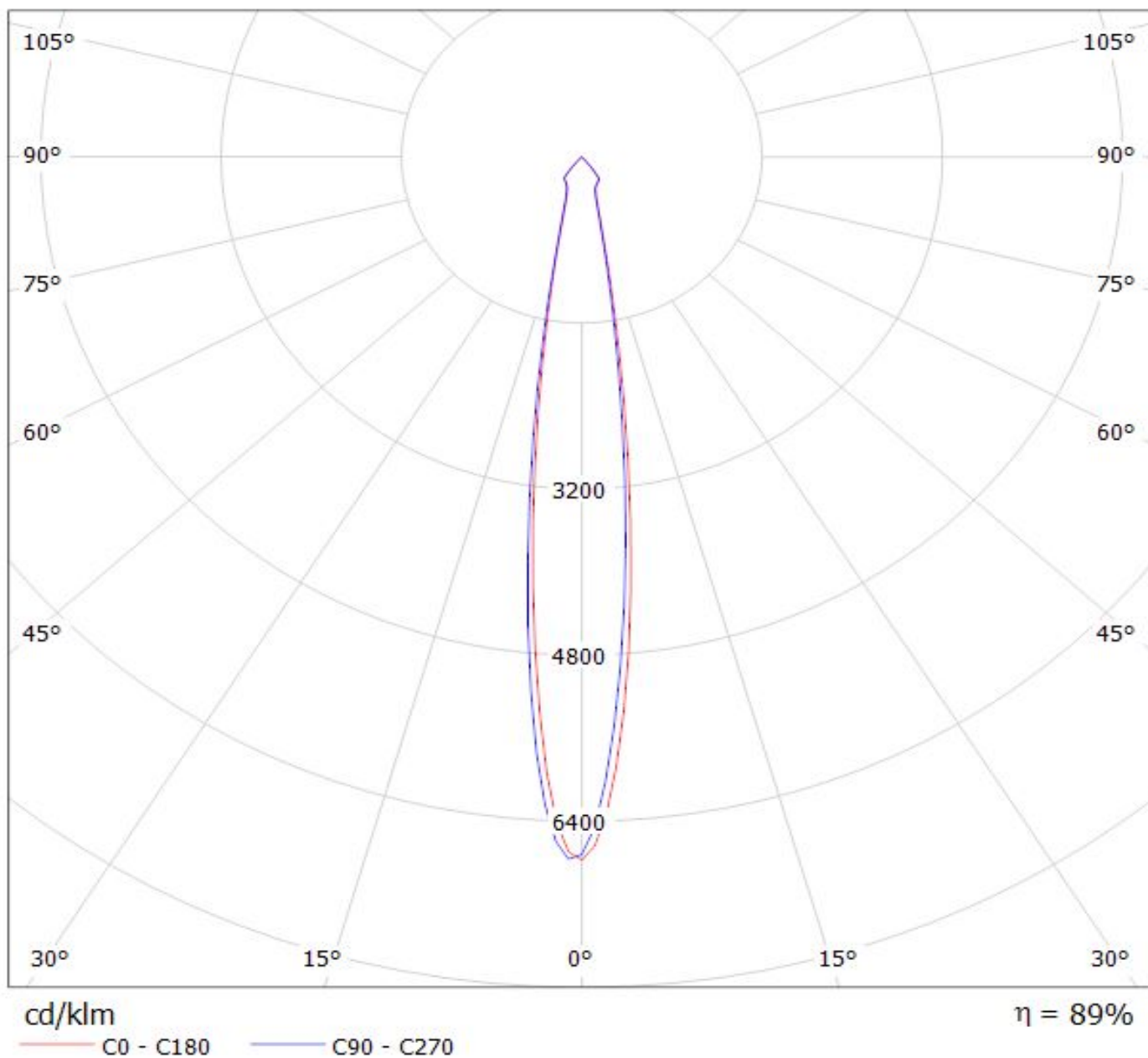


cd/klm

— C0 - C180 — C90 - C270

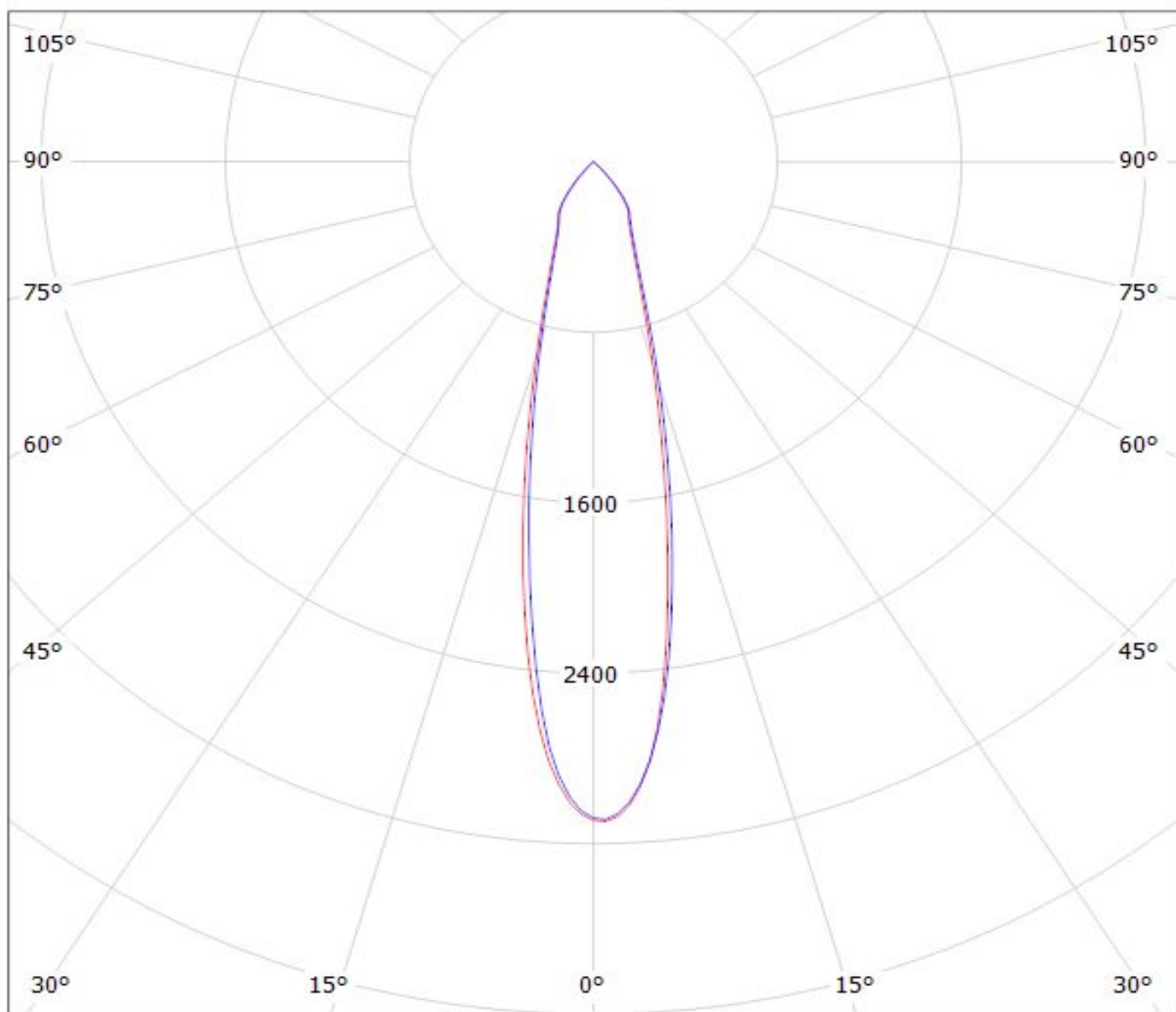
Luminaire: LEDiL Oy C12476\_MIRELLA-50-S\_(SLE-G5\_LES-6)

Lamps: 1 x Tridonic\_SLE-G5\_LES-6\_470.59lm@100mA\_P=3.3748W\_I=0.100A



Luminaire: LEDiL Oy C12476\_MIRELLA-50-S\_(SLE-G5\_LES-11)

Lamps: 1 x Tridonic\_SLE-G5\_LES-11\_1168.86lm@250mA\_P=8.3243W\_I=0.250A



cd/klm

— C0 - C180

— C90 - C270

$\eta = 87\%$



**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.