

## DETAILS

<b>Product Number</b>	F14533_ANGELETTE-M
<b>Family</b>	Angelette
<b>Type</b>	Reflector
<b>Color</b>	metal
<b>Diameter</b>	110 mm
<b>Height</b>	57,3 mm
<b>Style</b>	round
<b>Optic Material</b>	PC
<b>Holder Material</b>	
<b>Fastening</b>	socket
<b>Status</b>	production ready
<b>ROHS Compliant</b>	Yes
<b>Date Updated</b>	8/02/2017



## OPTICAL PROPERTIES

LED	Viewing Angle	Light Beam	Efficiency	cd/lm	Connector
V22 Gen6	49 deg	Medium	88 %	1.200	IDEAL: 50-2204-CT + 50-2100AN
V13 Gen7	46 deg	Medium	89 %	1.300	TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1
V22 Gen7	sim: 45	Medium	sim: 94 %	sim: 1.522	IDEAL: 50-2204-CT + 50-2100AN
V13 Gen7	sim: 44	Medium	sim: 90 %	sim: 1.500	IDEAL: 50-2103CT + 50-2100AN
CLL03x/CLU03x	45 deg	Medium	88 %	1.300	TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1
CLL04x/CLU04x	49 deg	Medium	88 %	1.200	IDEAL: 50-2204-CT + 50-2100AN
CLL03x/CLU03x	45 deg	Medium	87 %	1.300	IDEAL: 50-2103CT + 50-2100AN
CLU730/731	45 deg	Medium	87 %	1.300	IDEAL: 50-2204-CT + 50-2100AN
LUXEON CoB 1208	45 deg	Medium	88 %	1.300	IDEAL: 50-2100SH + 50-2100AN
LUXEON CoB 1208	46 deg	Medium	88 %	1.300	TE: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1
LUXEON CoB 1211	47 deg	Medium	88 %	1.200	IDEAL: 50-2204-CT + 50-2100AN
LUXEON CoB 1216	48 deg	Medium	88 %	1.200	IDEAL: 50-2204-CT + 50-2100AN
COB L-Type (LES 11)	44 deg	Medium	87 %	1.300	IDEAL: 50-2100NC + 50-2100AN
COB L-Type (LES 11)	45 deg	Medium	88 %	1.300	TE: 2213382-2 + OPTIC CLIP Z50 TYPE1 2213194-1
COB J-Type	44 deg	Medium	89 %	1.300	IDEAL: 50-2103NC + 50-2100AN
PrevaLED Core Z4 LES19	46 deg	Medium	88 %	1.300	TE: OPTIC CLIP Z50 TYPE1 2213194-1
Soleriq S19	46 deg	Medium	88 %	1.300	TE: 2213407-2 + OPTIC CLIP Z50 TYPE1 2213194-1
Soleriq S13 Gen2	45 deg	Medium	87 %	1.300	TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1
Soleriq S13 Gen2	45 deg	Medium	87 %	1.300	IDEAL: 50-2103CT + 50-2100AN
Fortimo SLM G5 LES 15 Standard	46 deg	Medium	88 %	1.300	TE: OPTIC CLIP Z50 TYPE1 2213194-1
Fortimo SLM 1208 L15 G6 Standard	46 deg	Medium	87 %	1.250	TE: OPTIC CLIP Z50 TYPE1 2213194-1
LC040C	45 deg	Medium	88 %	1.300	TE: 2213382-2 + OPTIC CLIP Z50 TYPE1 2213194-1
MJT COB LES 14.5	47 deg	Medium	87 %	1.200	TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1
SLE G6 LES15	sim: 44	Medium	sim: 89 %	sim: 1.500	TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1
SLE G6 LES17	sim: 45	Medium	sim: 86 %	sim: 1.420	TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1



# PRODUCT DATASHEET

## Angelette series

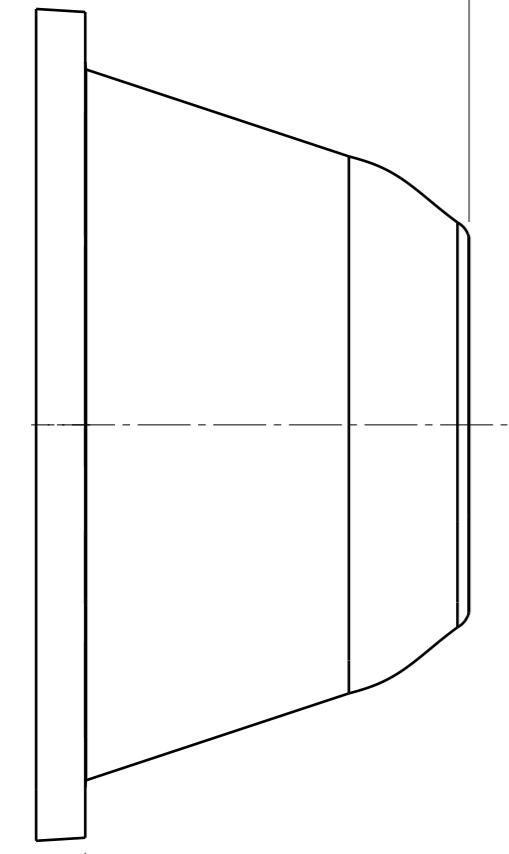
last update 8/2/2017

### OPTICAL PROPERTIES

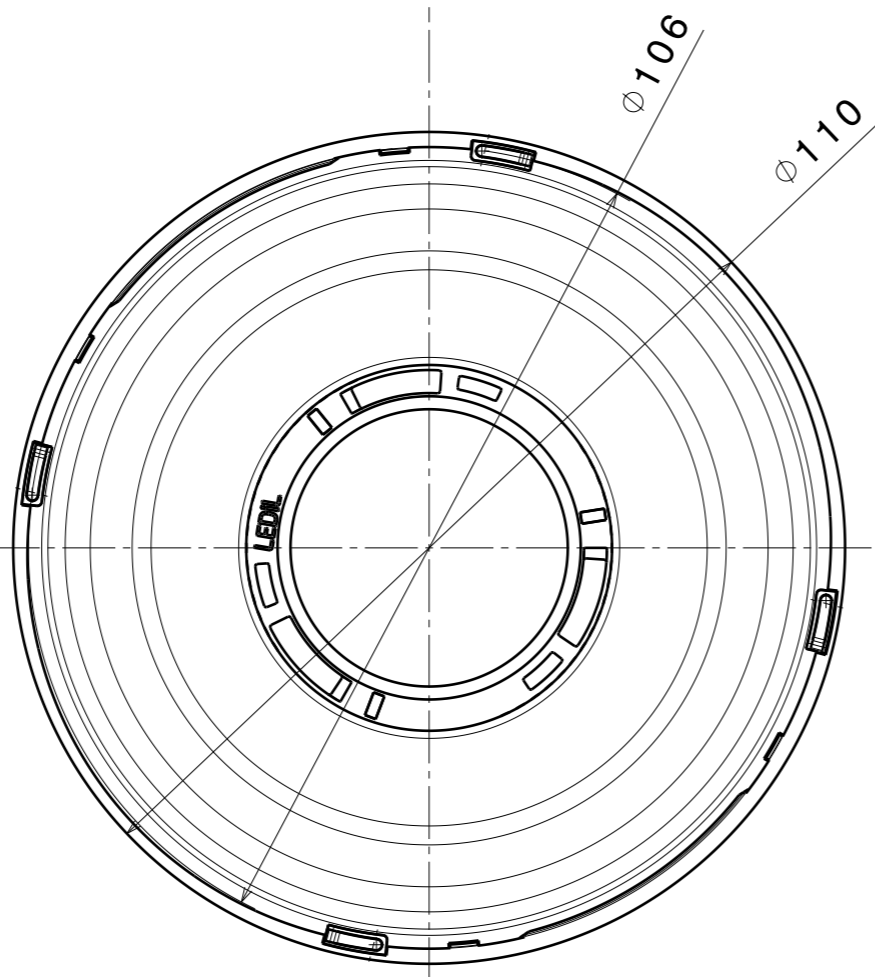
LED	Viewing Angle	Light Beam	Effi- ciency	cd/lm	Connector
WU-M-484	45 deg	Medium	87 %	1.300	TE: OPTIC CLIP Z50 TYPE1 2213194-1

**NOTE:**  
 Customer may add additional light modifying parts to Angelette family(excluding the plain versions):  
 Minimum height of additional part is 1.5mm and maximum is 2.2mm. Diameter is 105.9mm±0.3

57.26 + Basepart



Front view

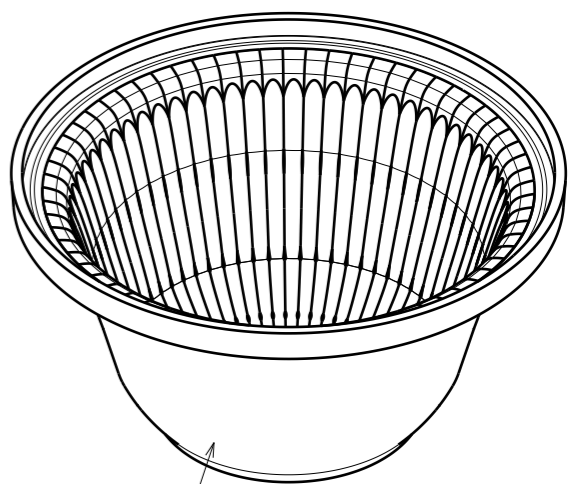
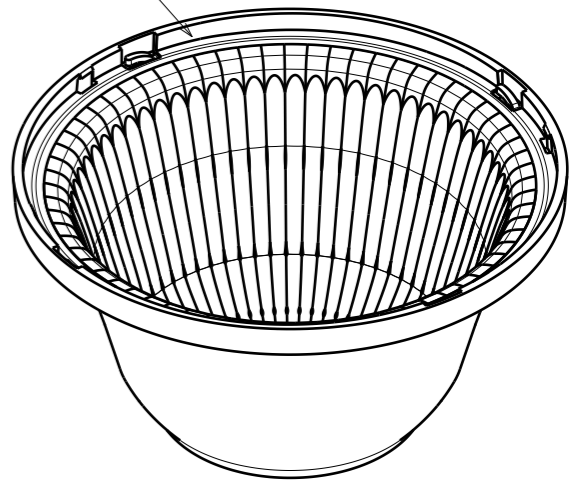


Top view



Additional part  
 Section view A-A

ANGELETTE-M



ANGELETTE-M-PLAIN

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:

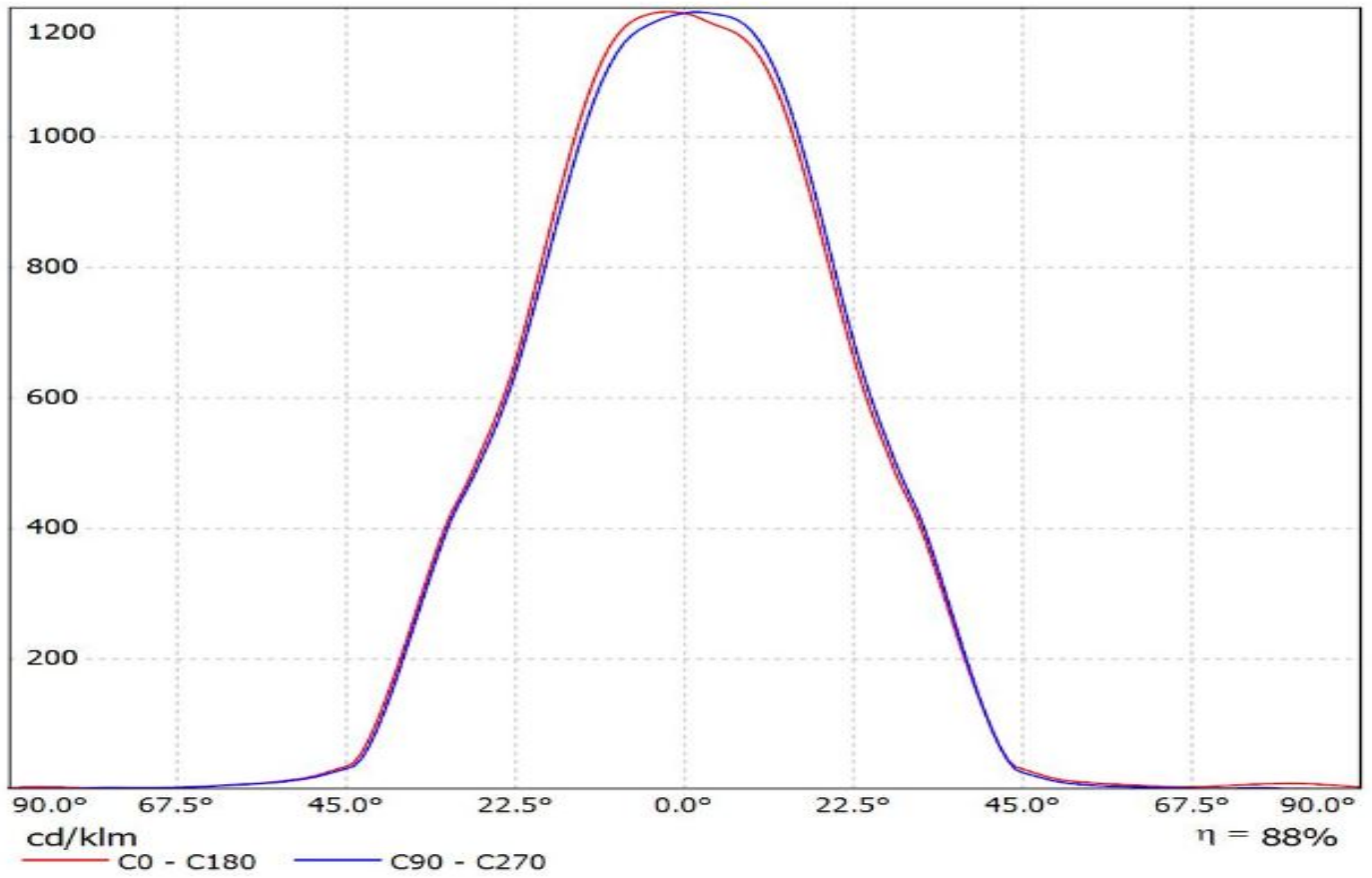
DRAWING TITLE  
**Datasheet\_ANGELETTE-M**

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 reproduced, copied or  
 communicated without a written  
 agreement with LEDiL Oy.

SIZE **A3** PART NUMBER **ANGELETTE-M**  
**ANGELETTE-M-PLAIN**

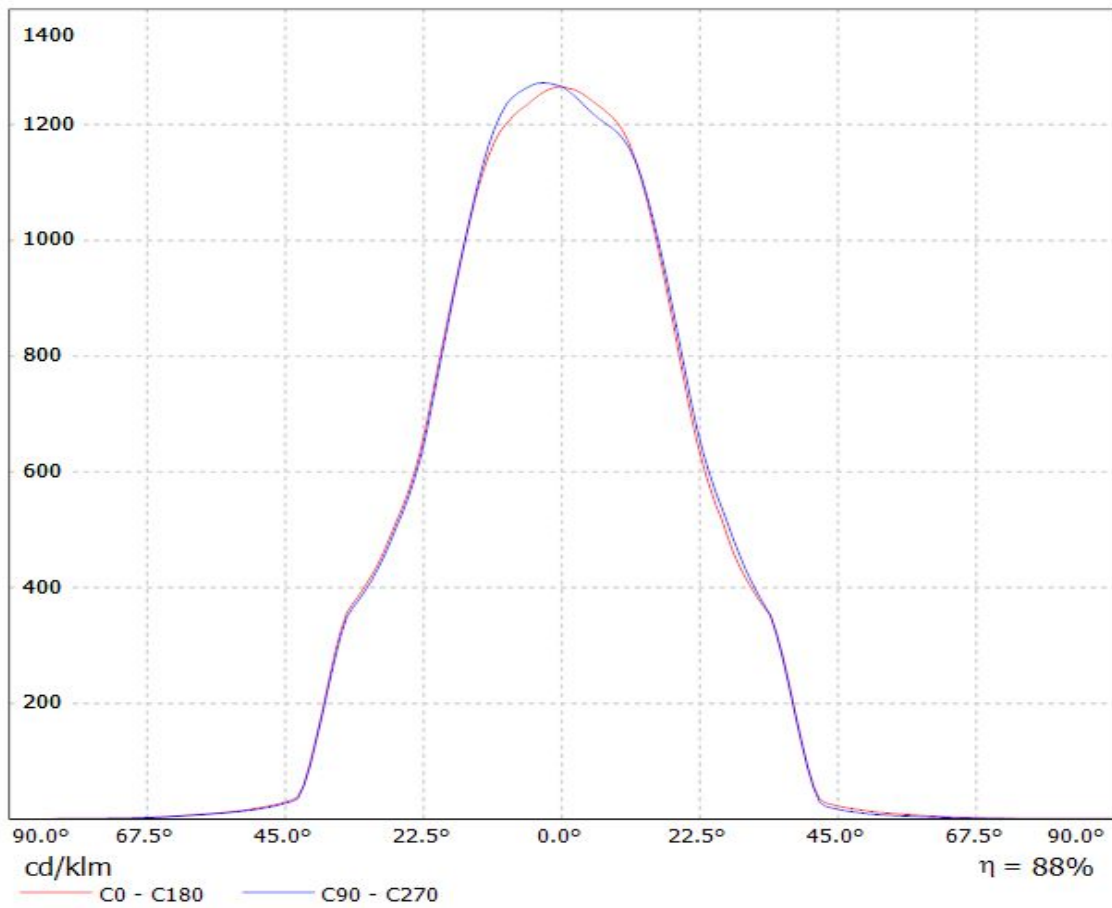
SCALE **1:1** WEIGHT SHEET **1/1**

Luminaire: Ledil F14533\_ANGELETTE-M\_(V22+IDEAL)  
Lamps: 1 x Bridgelux\_V22\_(BXRE30E6500H-Y2)\_+50-2204CT\_+\_50-2100AN\_1193.54lm@250mA\_CCT=3000K\_P=8.0988W\_I=0.25A

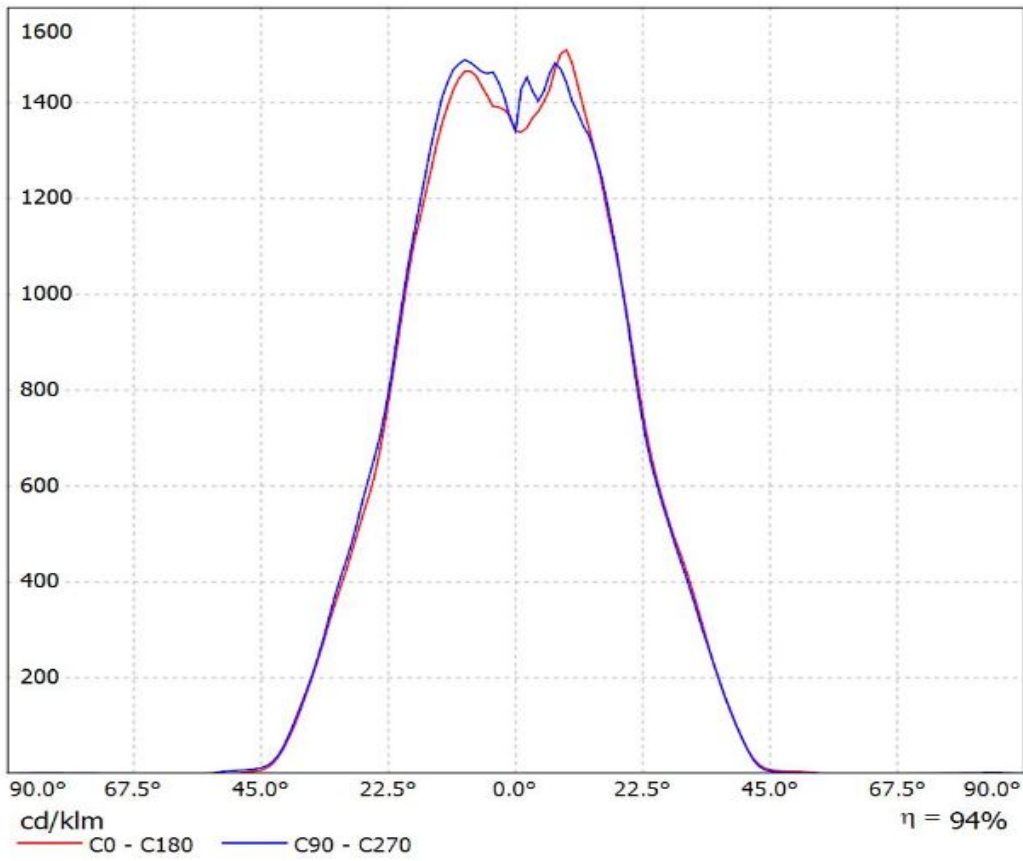


Luminaire: LEDiL Oy F14533\_ANGELETTE-M\_(V13\_Gen7)+TE

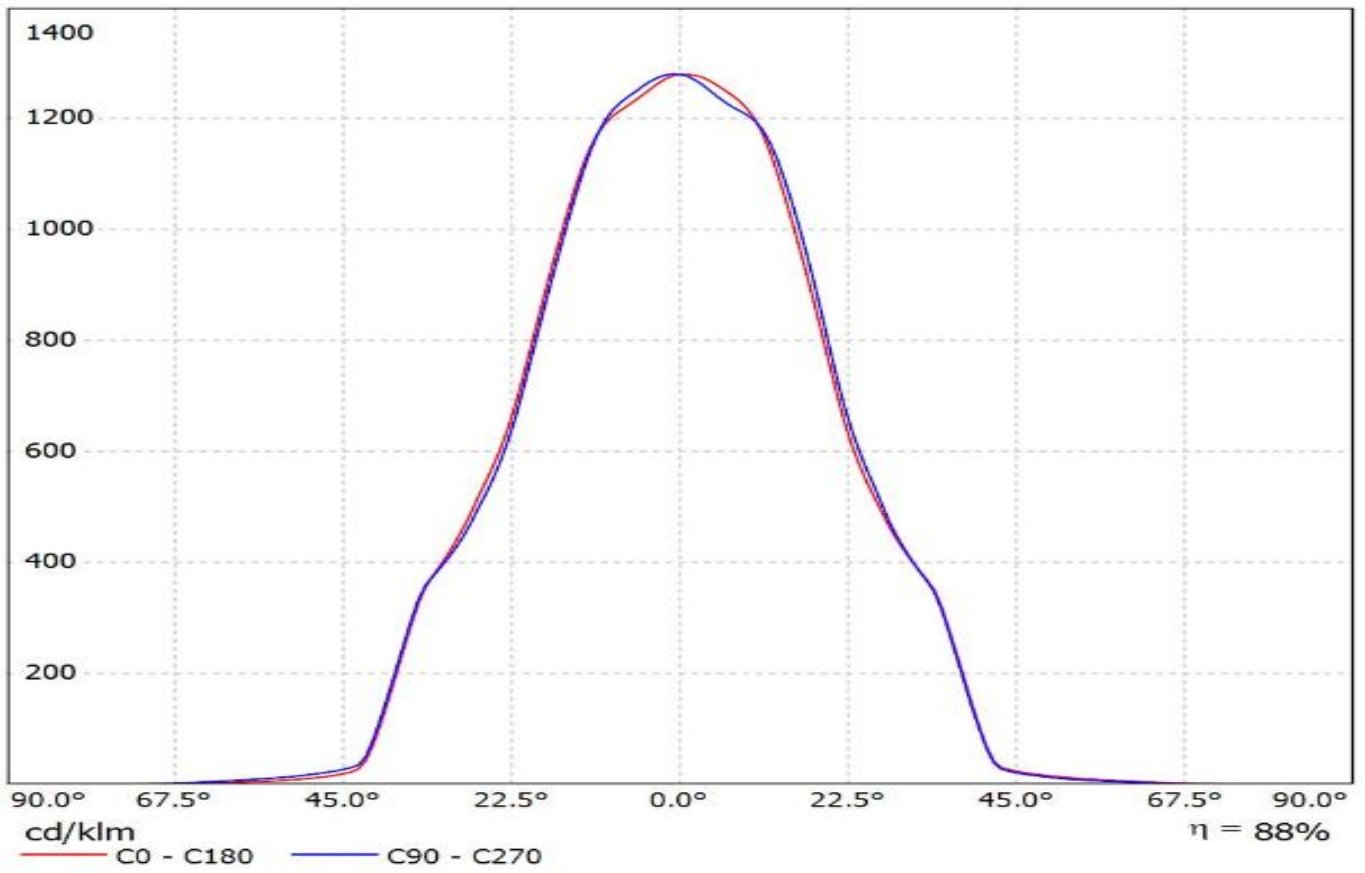
Lamps: 1 x Bridgelux\_V13\_Gen7\_(BXRE-30E2000-B\_+TE\_2213254-2+TE\_2213194-1)\_1295.55lm@250mA\_P=8.30985W\_I=0.25A



Luminaire: Ledil Oy F14533\_ANGELETTE-M\_Bridgelux\_V22\_Gen7\_SIMULATED F14533\_ANGELETTE-M\_Bridgelux\_V22\_Gen7\_SIMULATED  
Lamps: 1 x F14533\_ANGELETTE-M\_Bridgelux\_V22\_Gen7\_SIMULATED

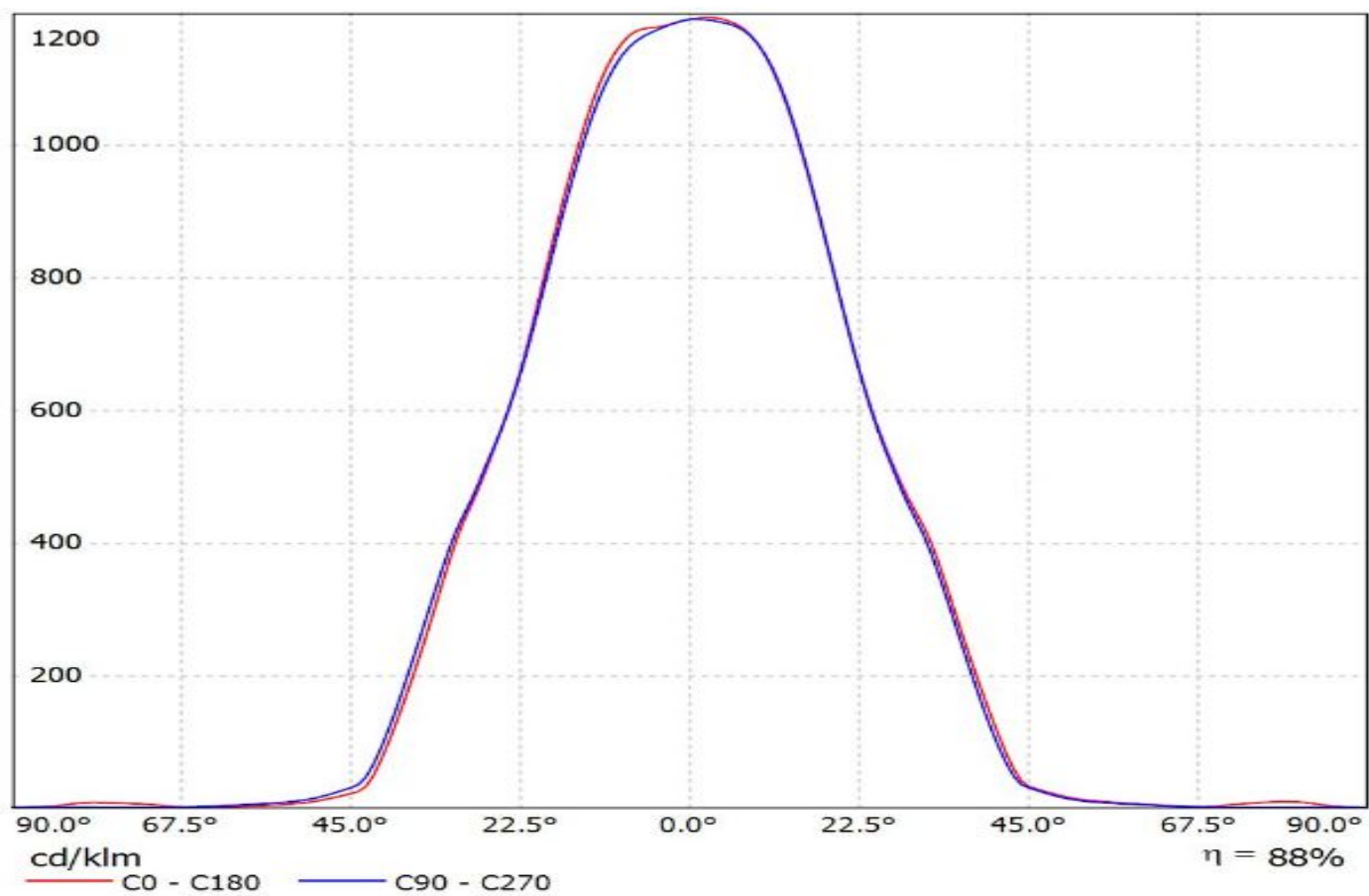


Luminaire: Ledil F14533\_ANGELETTE-M\_(CLU038+TE)  
Lamps: 1 x Citizen\_CLU038\_(-1205C4-273MZK1)\_+2213254-2\_+2213194-  
1\_1351.18lm@250mA\_P=8.4078W\_I=0.25A



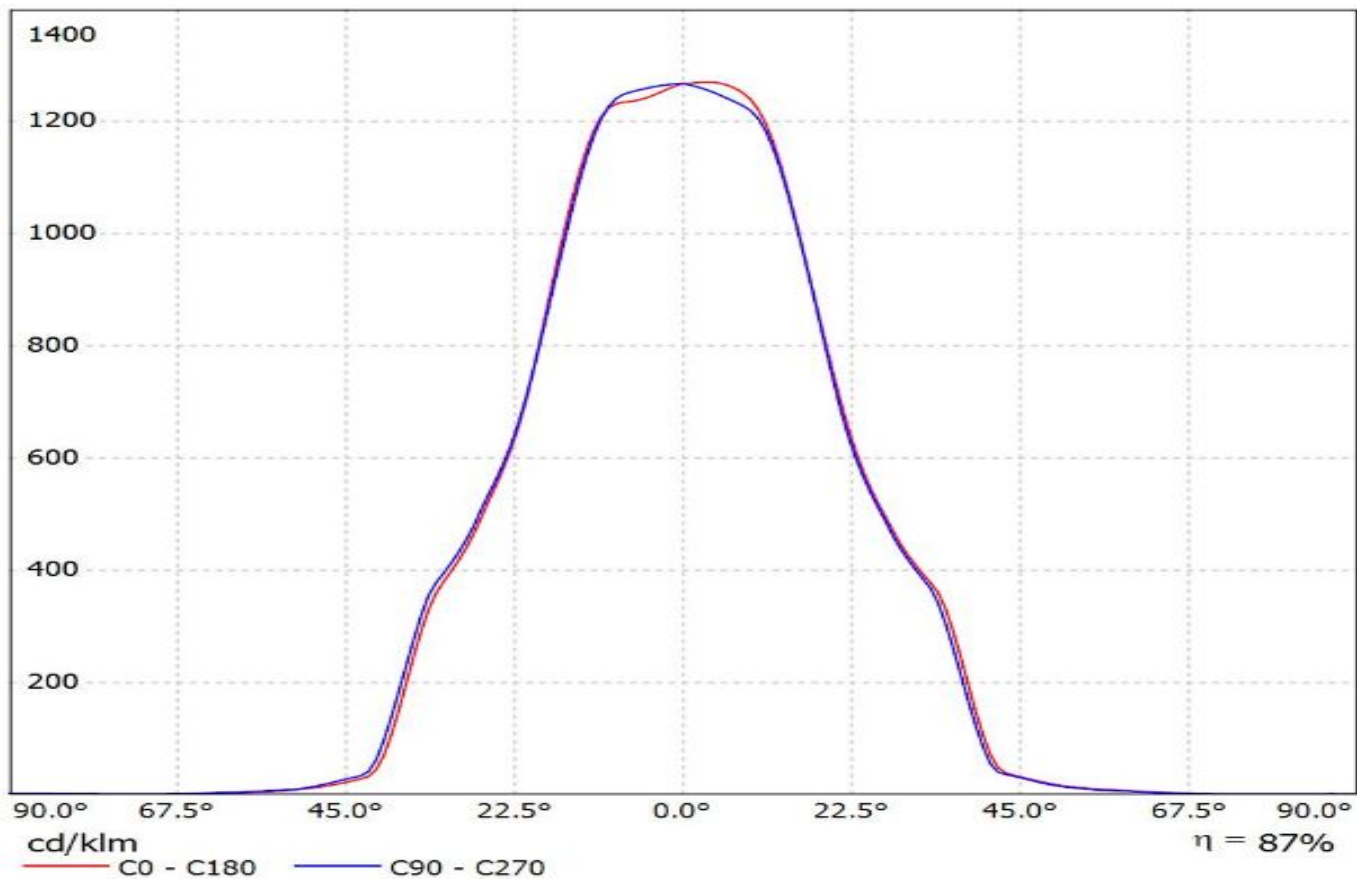
Luminaire: Ledil F14533\_ANGELETTE-M\_(CLU046+IDEAL)

Lamps: 1 x Citizen\_CLU046\_(-1212C1-303M2G2)\_1383.92lm@250mA\_CCT=3000K\_P=8.122W\_I=0.25A



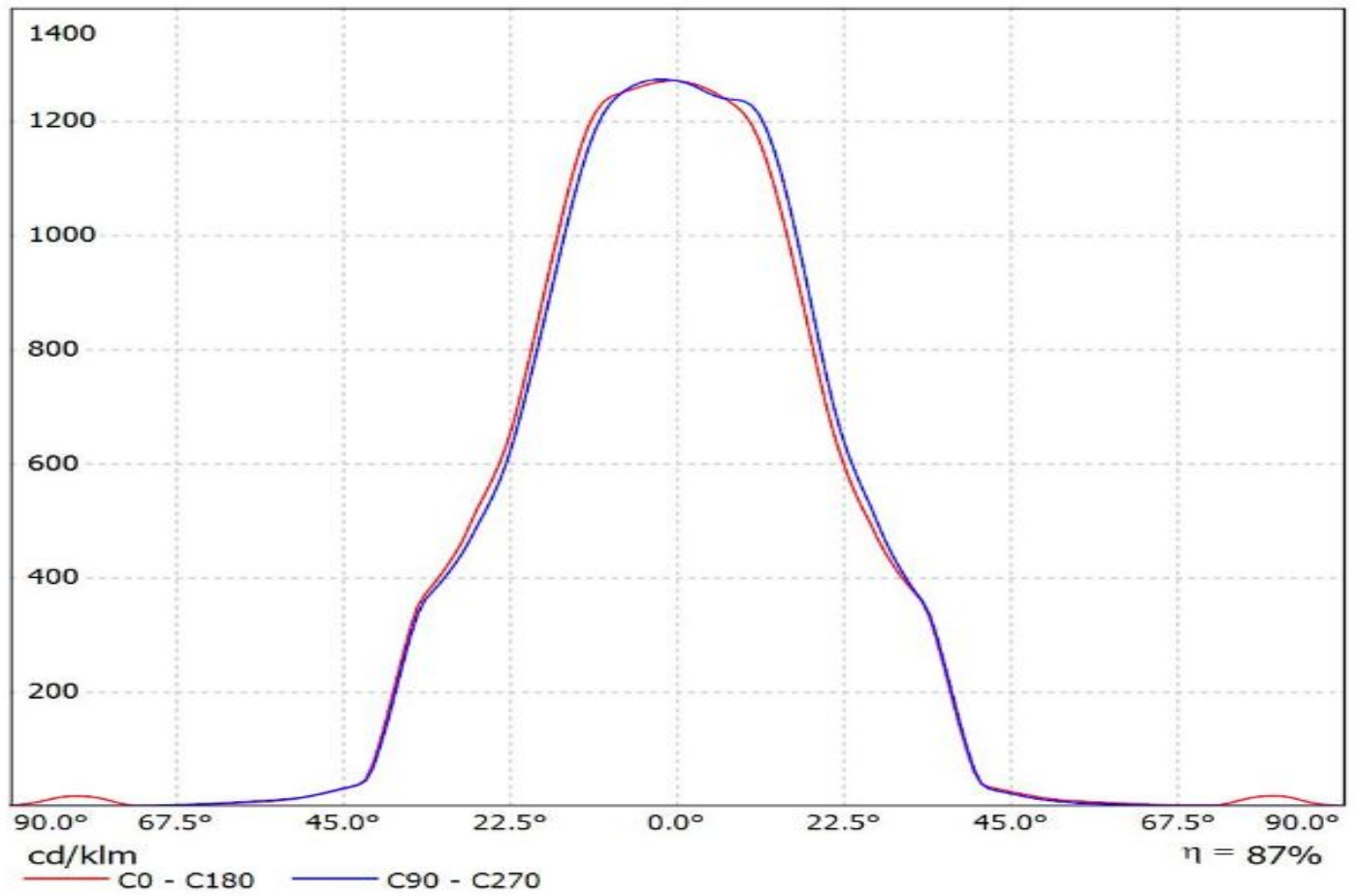


Luminaire: Ledil F14533\_ANGELETTE-M\_(CLU036+IDEAL)  
Lamps: 1 x CITIZEN\_CLU036\_(-1208C1-303M2G2)\_IDEAL\_50-2103CT+50-2100AN\_1299.86lm@250mA\_CCT=3000K\_P=8.249W\_I=0.25A

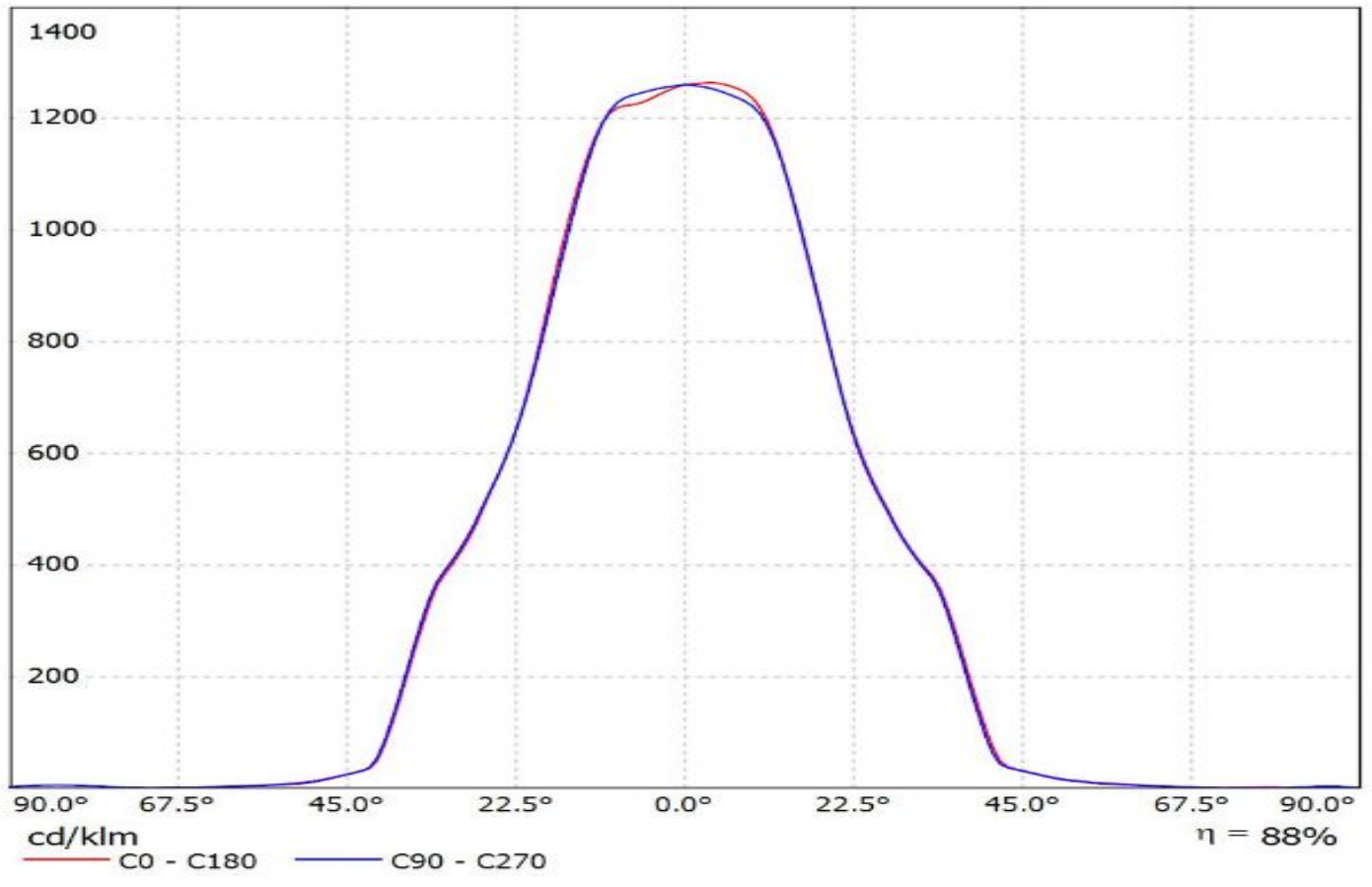


Luminaire: Ledil F14533\_ANGELETTE-M\_(CLU730+IDEAL)

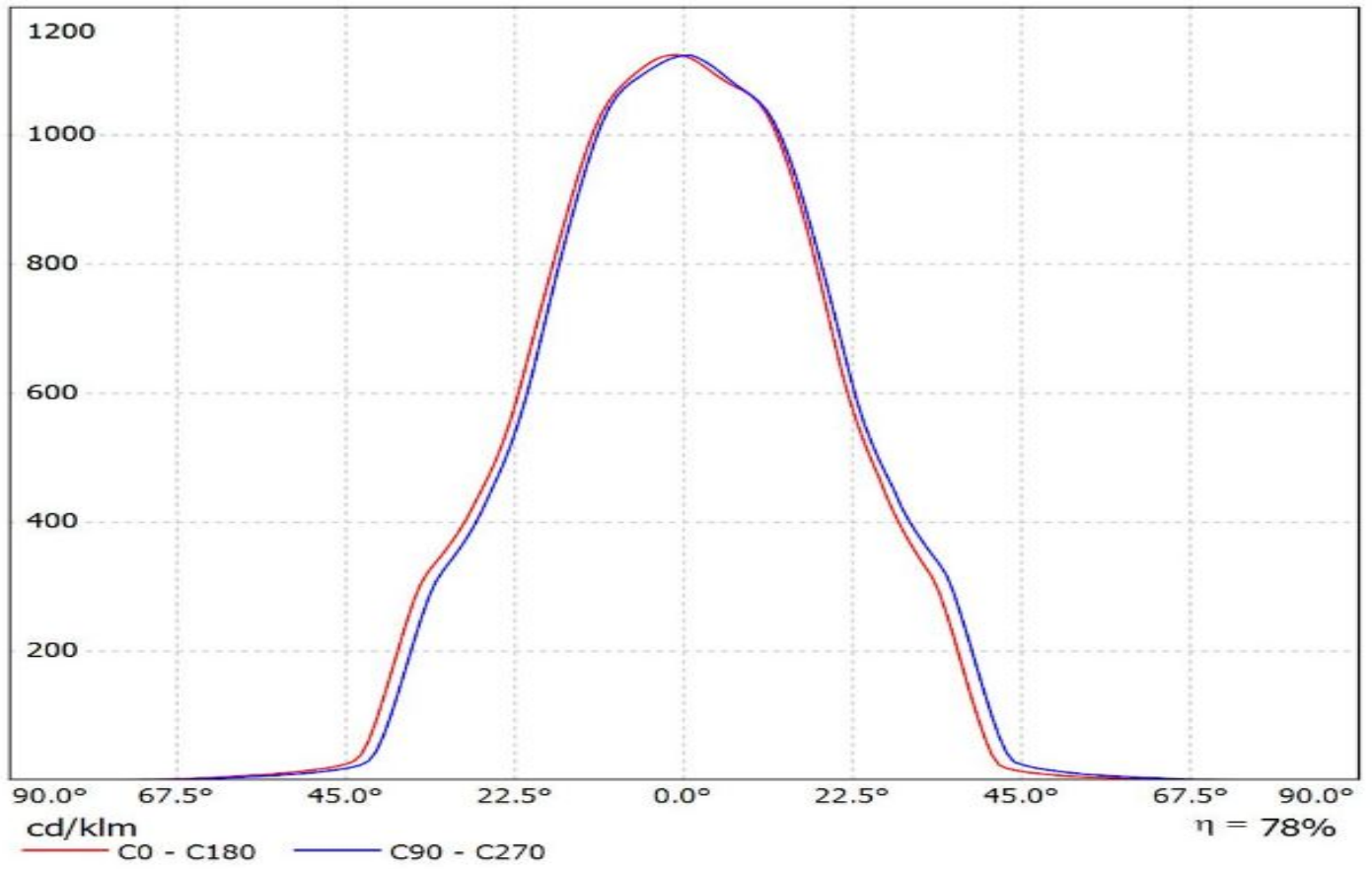
Lamps: 1 x Citizen\_CLU730\_(-1210B8-273M2G1)\_IDEAL\_50-2204C+50-2100AN



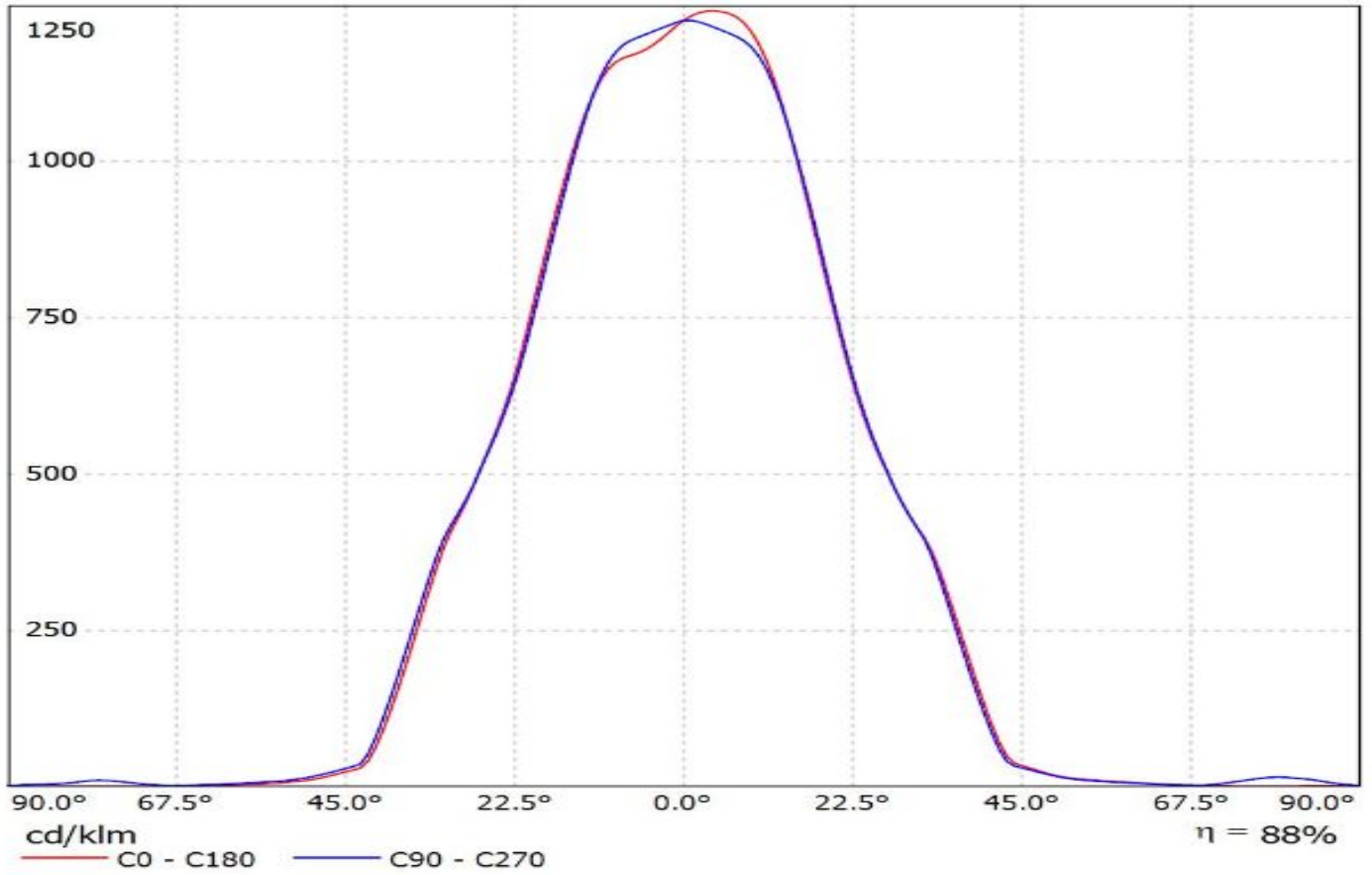
Luminaire: Ledil F14533\_ANGELETTE-M\_(CoB1208+IDEAL)  
Lamps: 1 x Luxeon\_CoB1208\_+\_50-2100SH+50-2100AN\_1062.11lm@250mA\_CCT=3000K\_P=8.3007W\_I=0.25A



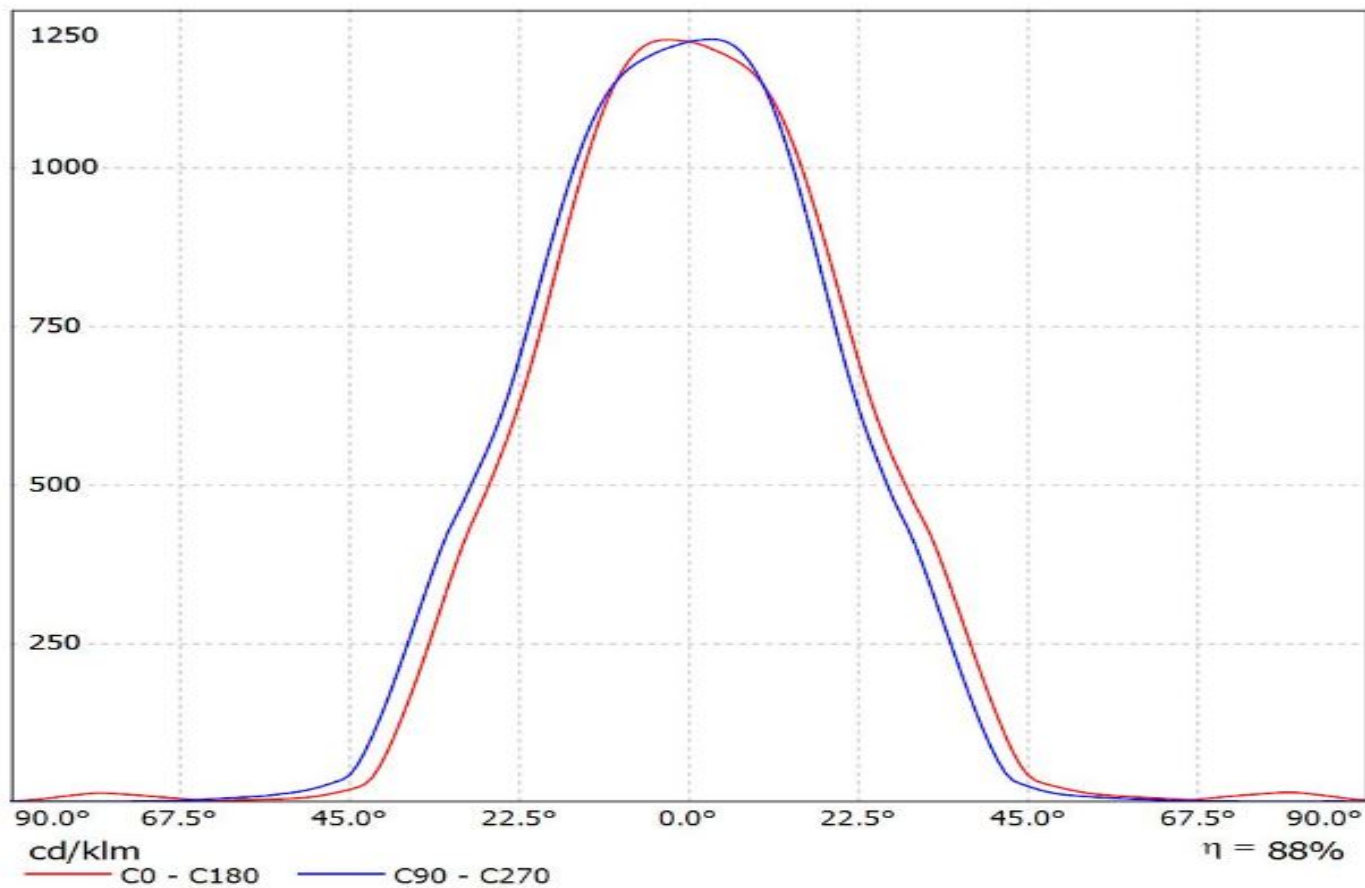
Luminaire: Ledil F14533\_ANGELETTE-M (CoB1208+TE)  
Lamps: 1 x Luxeon\_CoB1208 + 2213130-2 + 2213194-1\_1062.11lm@250mA\_CCT=3000K\_P=8.3007W\_I=0.25A



Luminaire: Ledil F14533\_ANGELETTE-M\_(CoB1211+IDEAL)  
Lamps: 1 x Luxeon\_CoB1211\_(L2C2-4080)\_50-2204CT+50-2100AN\_1376.18lm@250mA\_P=7.9988W\_I=0.25A

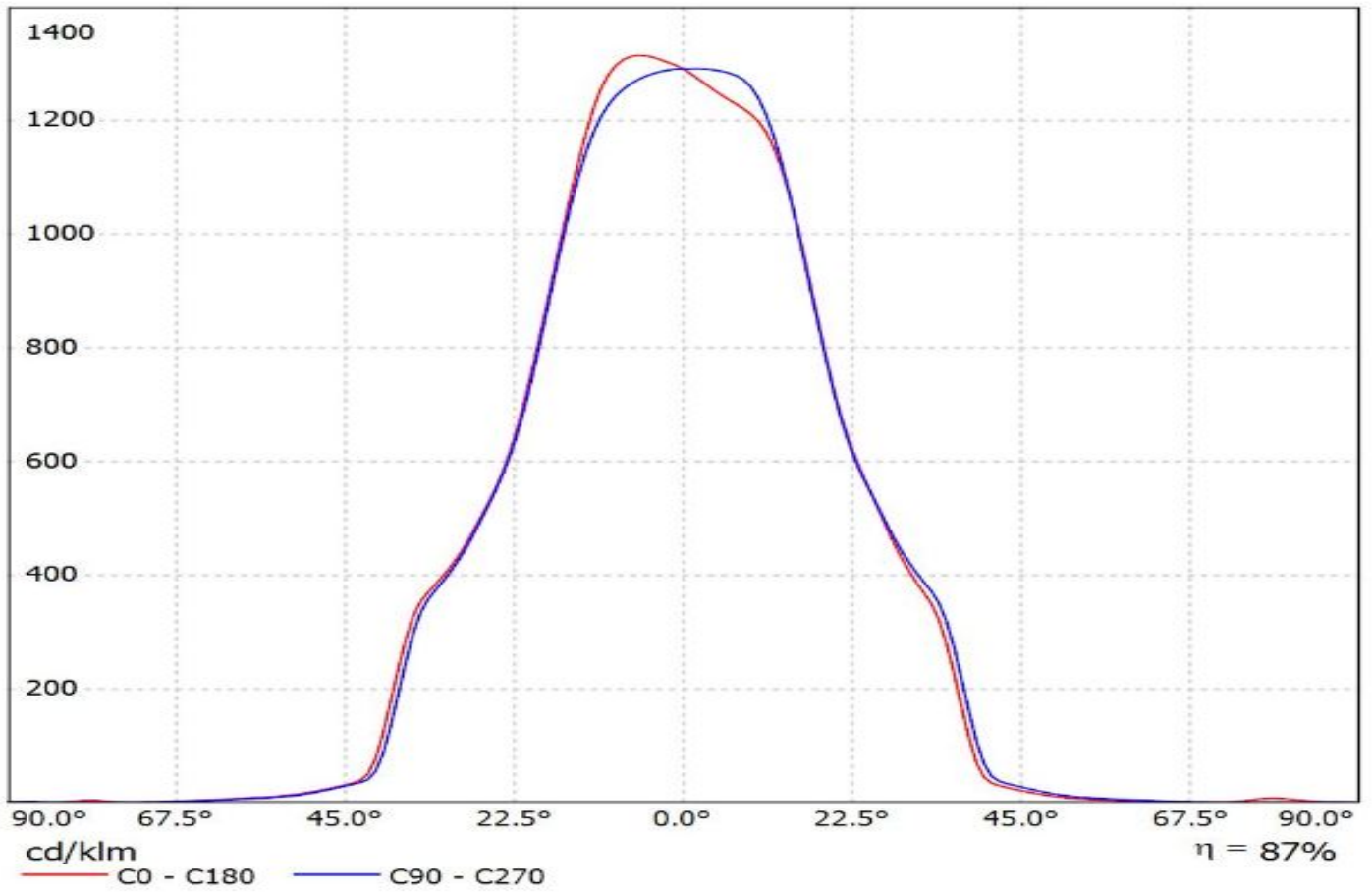


Luminaire: Ledil F14533\_ ANGELETTE-M\_(CoB1216\_IDEAL)  
Lamps: 1 x Luxeon\_CoB1216\_(L2C2-40801216E2300)\_+50-2204C\_+\_50-2100AN\_1447.57lm@250mA\_CCT=4000K\_P=8.0135W\_I=0.25A

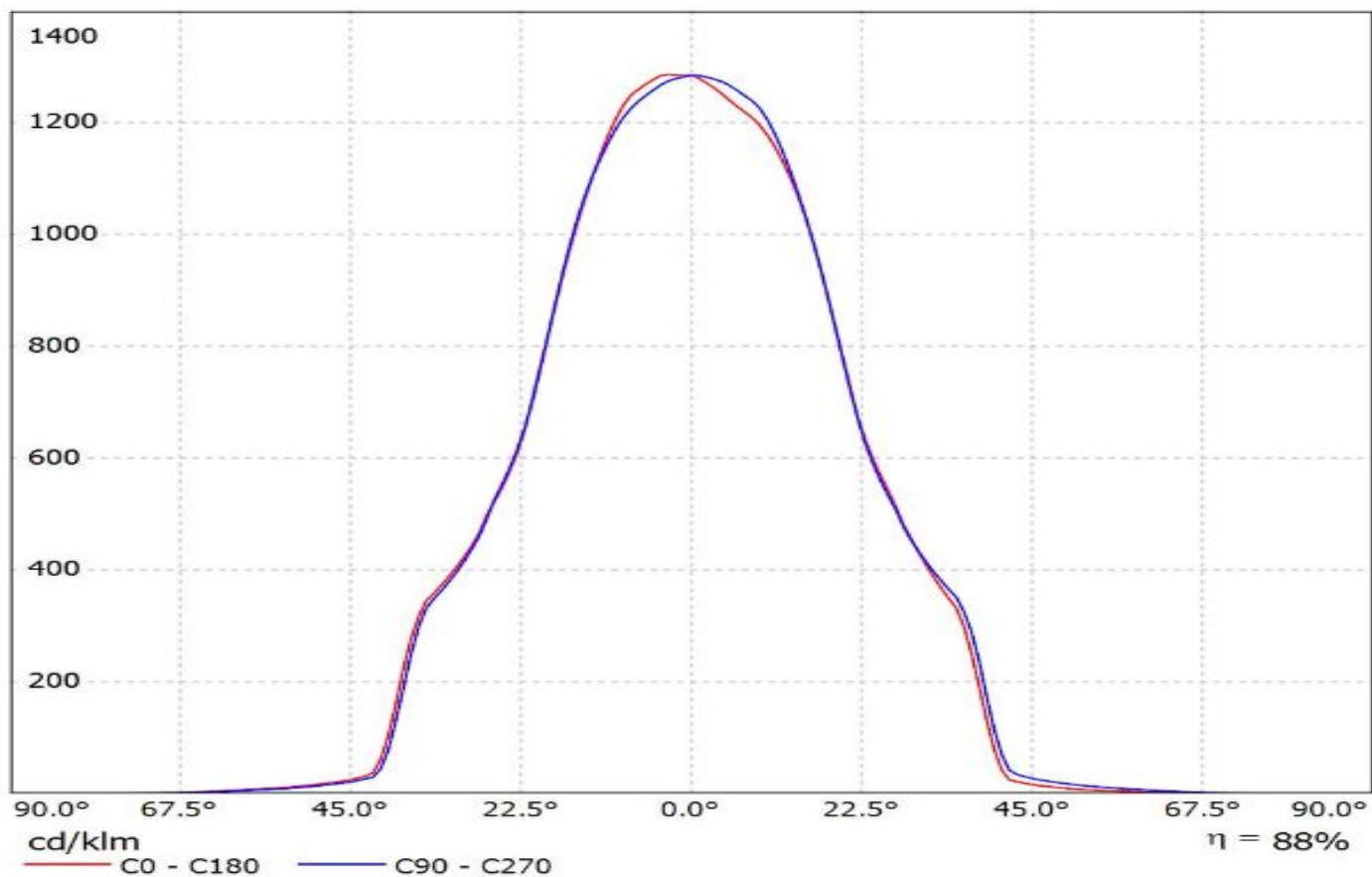


Luminaire: Ledil F14533\_ANGELETTE-M\_(NVCLL024Z+IDEAL)

Lamps: 1 x Nichia\_NVCxL024z\_(NVCLL024z)\_975.455lm@250mA\_P=8.1468W\_I=250A



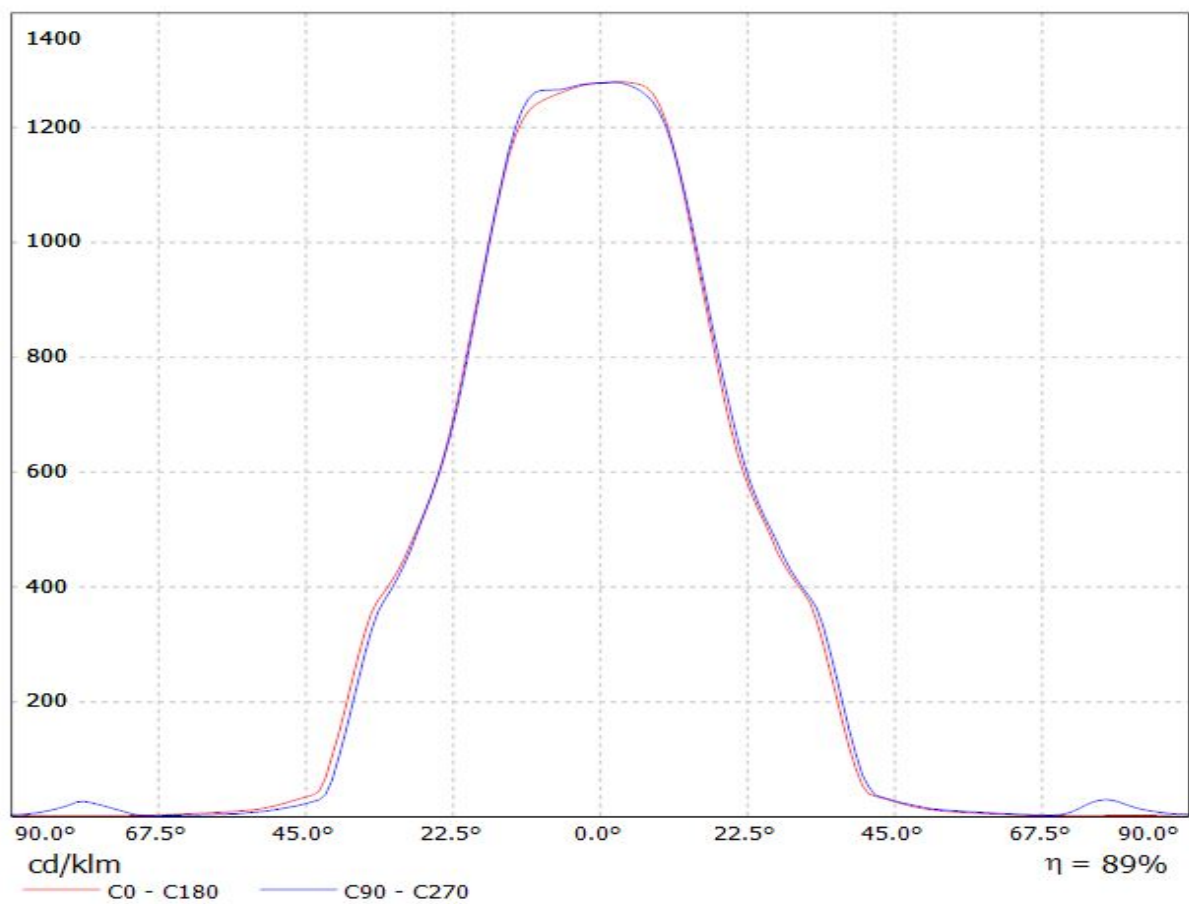
Luminaire: Ledil F14533\_ANGELETTE-M\_(NVCLL024Z+TE)  
Lamps: 1 x Nichia\_NVCLL024Z\_+2213382-2\_+2213194-  
1\_971.485lm@250mA\_CCT=3000K\_P=8W\_I=0.25A



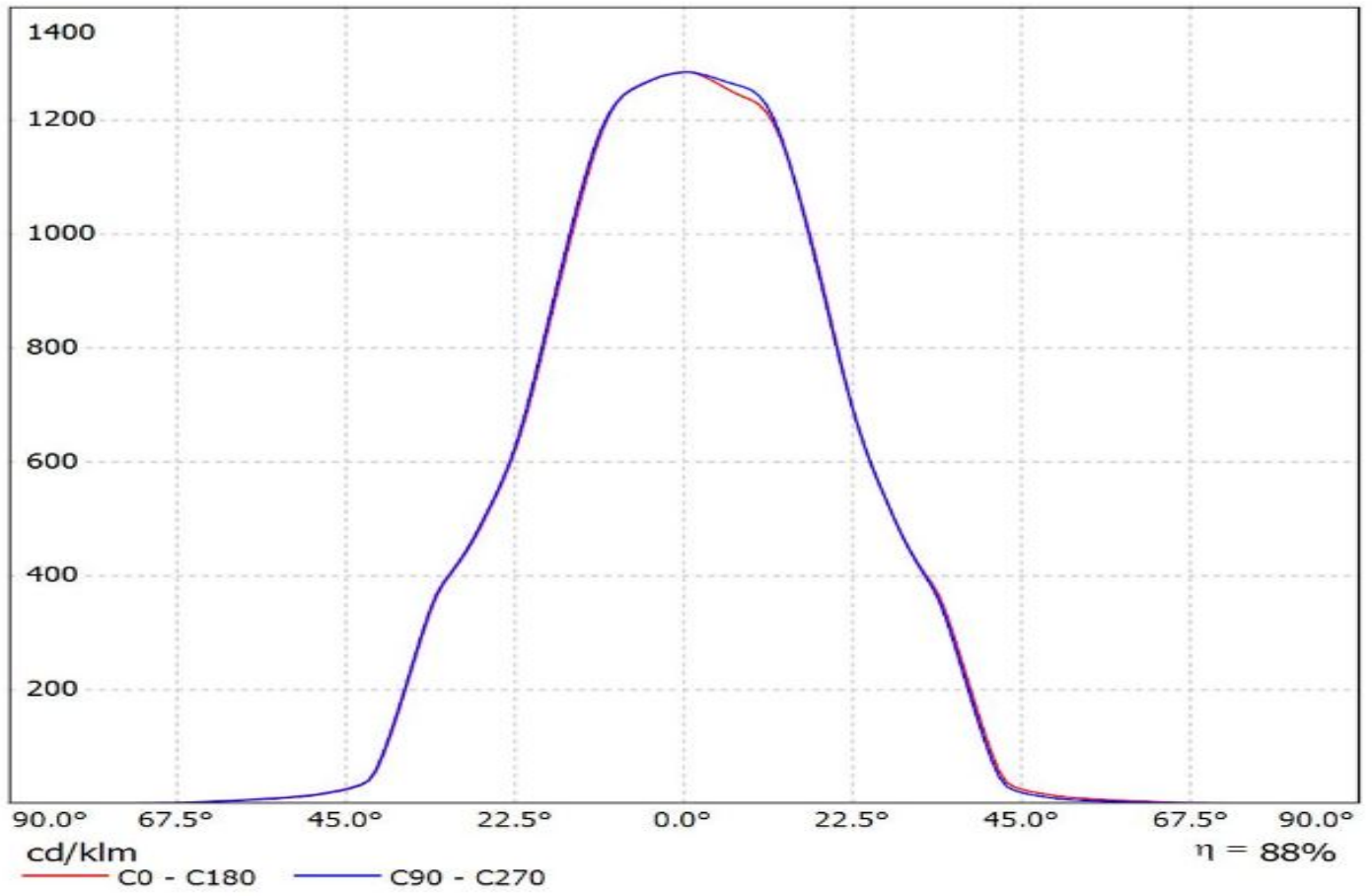


Luminaire: LEDiL Oy F14533\_ANGELETTE-M\_(NFDLJ130B+IDEAL)

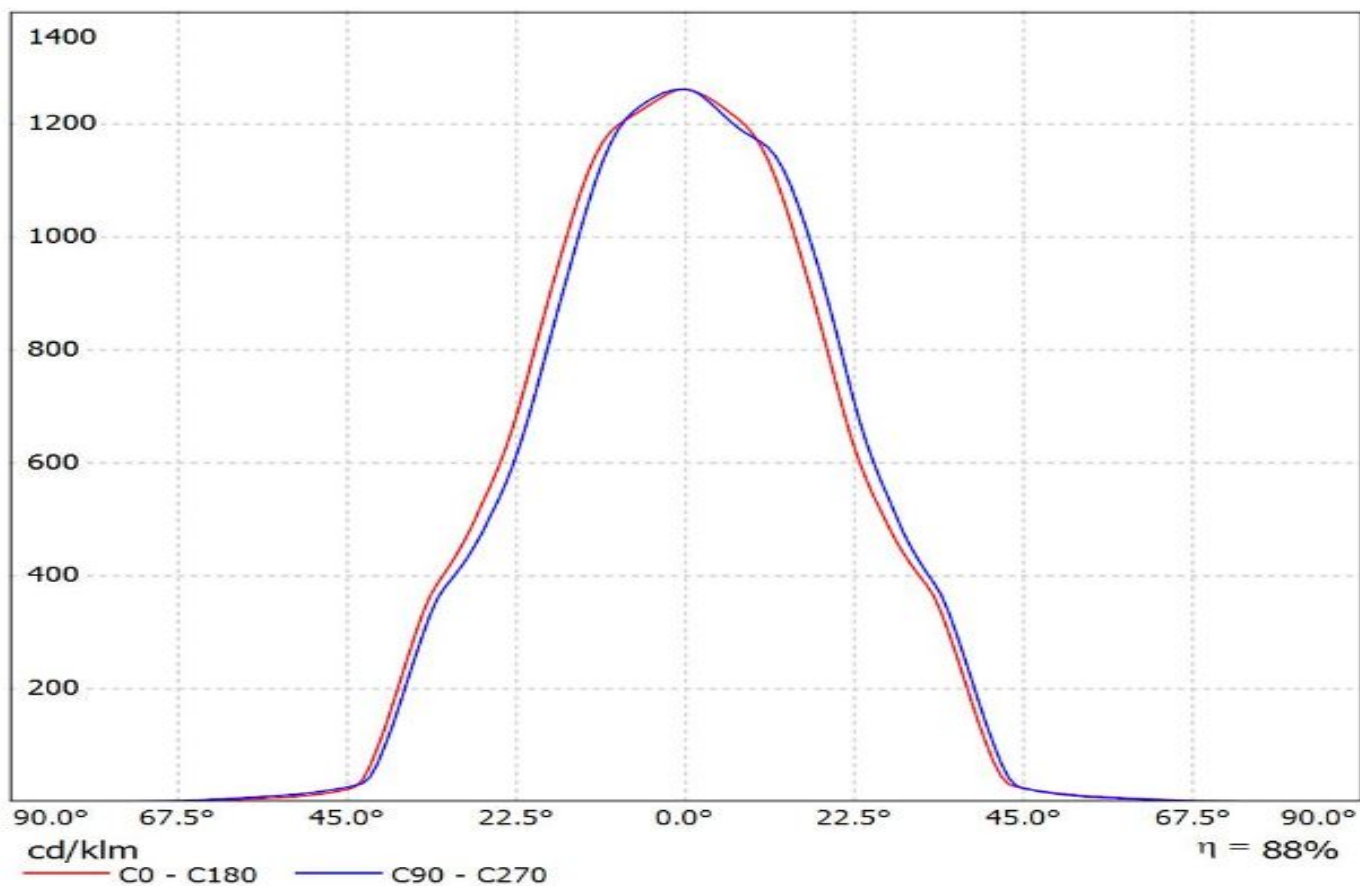
Lamps: 1 x Nichia\_NFDLJ130B\_+50-2103NC\_+50-2100AN\_1422.52lm@250mA\_CCT=4000K\_P=8.91686W\_I=0.25A



Luminaire: Ledil F14533\_ANGELETTE-M (PREVALED\_Core\_Z4)  
Lamps: 1 x PREVALED\_Core\_Z4\_LES19\_1470.62lm@250mA\_P=10.828W\_I=0.25A

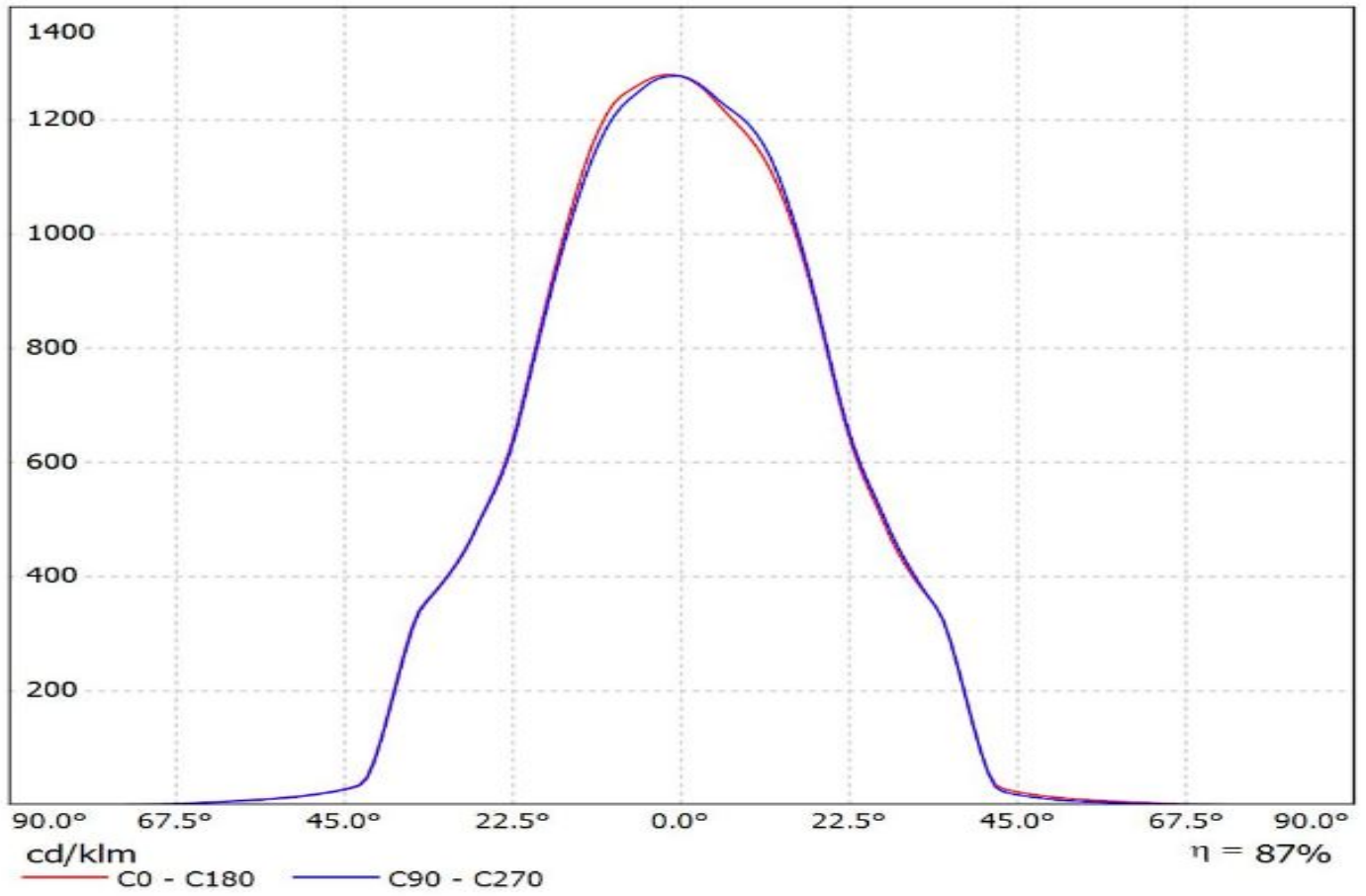


Luminaire: Ledil F14533\_ANGELETTE-M\_(S19+TE)  
Lamps: 1 x Osram\_Soleroq\_S19\_(GW\_KAHJB1.EM) +2213407-2+2213194-  
1\_1546.1lm@250mA\_CCT=3000K\_P=11.021W\_I=0.25A

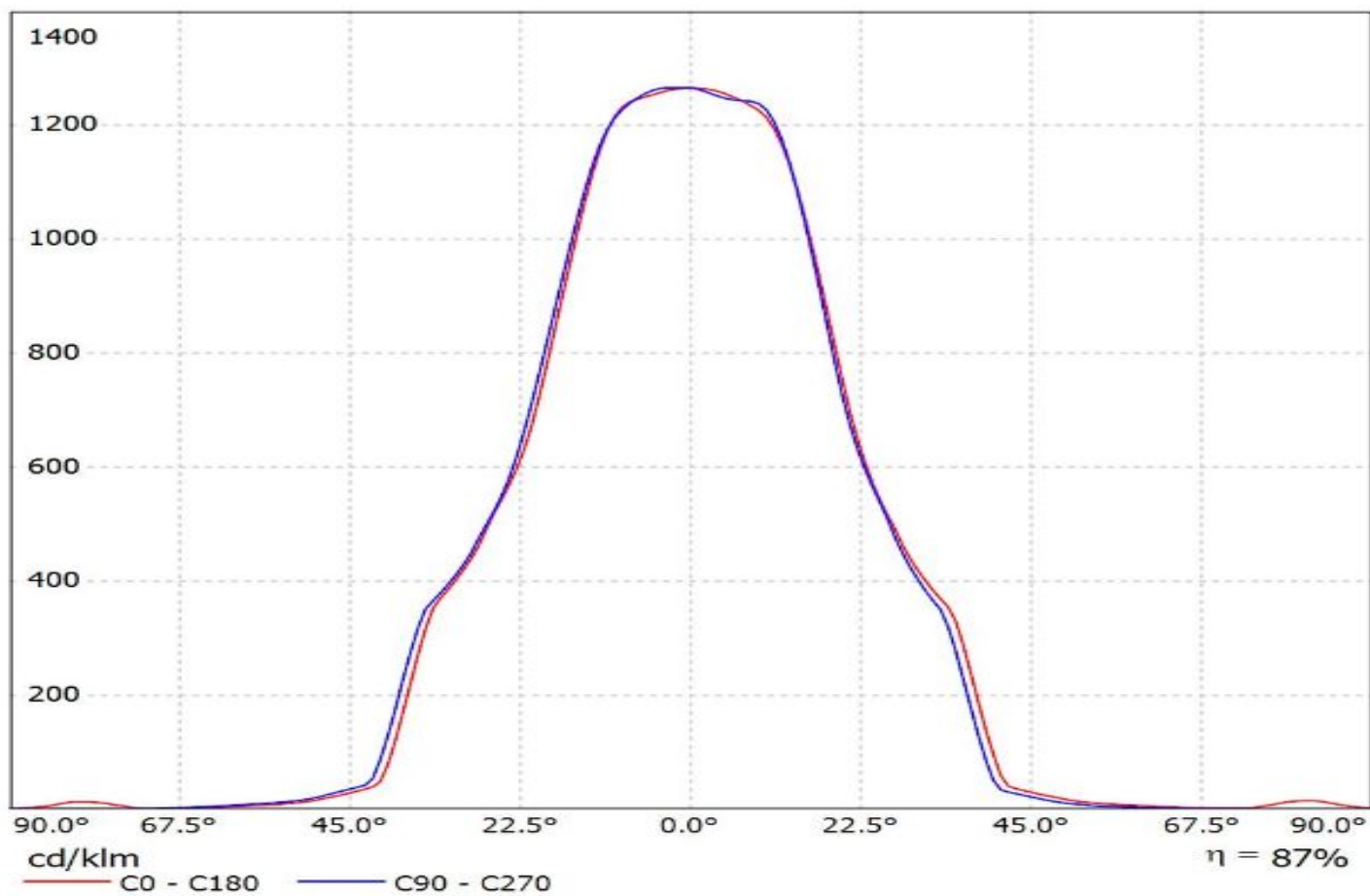


Luminaire: Ledil F14533\_ANGELETTE-M (S13\_Gen2+TE)

Lamps: 1 x Soleriq\_S13\_Gen2+\_2213254-2+\_2213194-1\_1309.23lm@250mA\_P=8.7840W\_I=0.250A

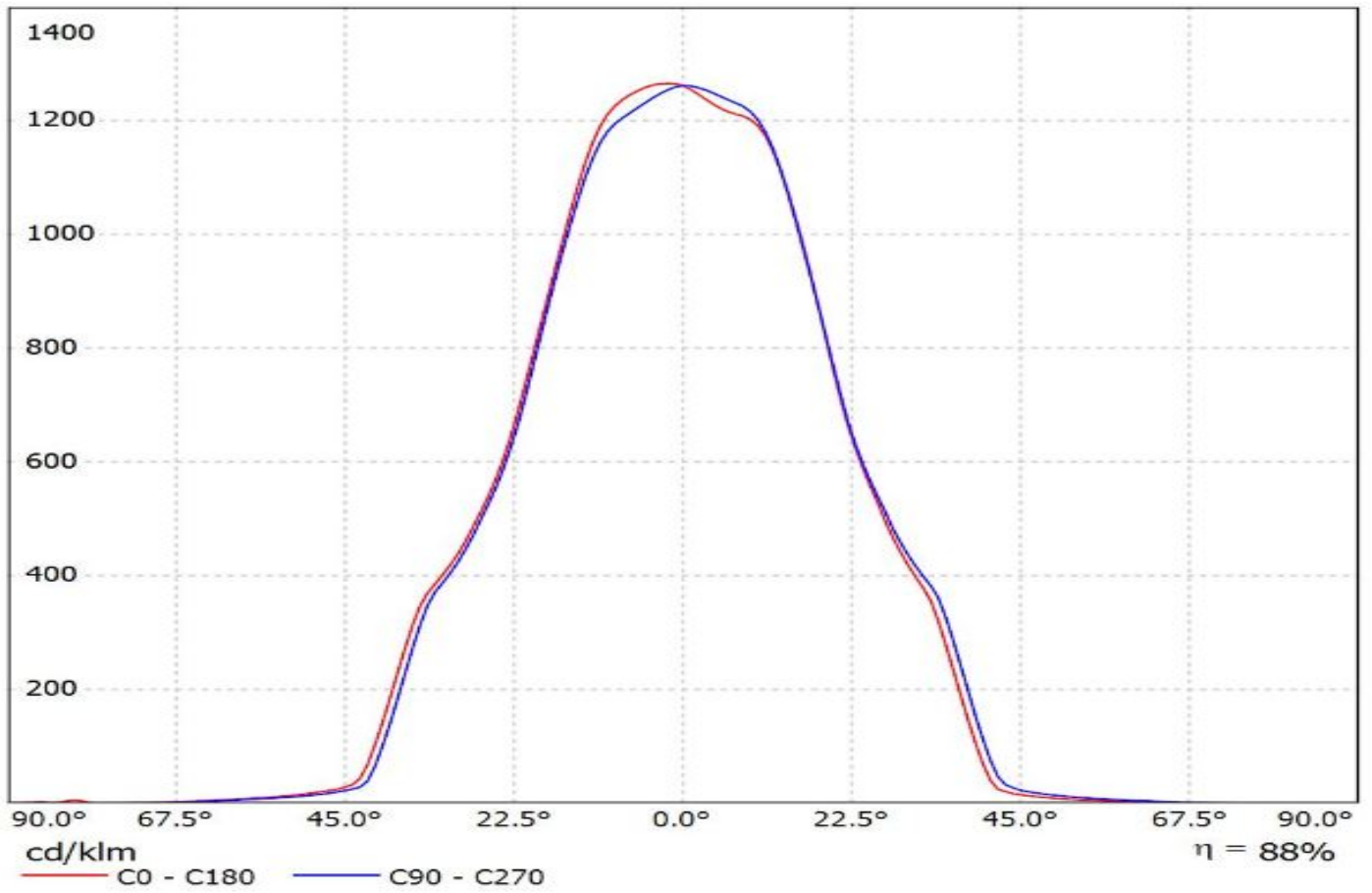


Luminaire: Ledil F14533\_ANGELETTE-M\_(S13\_Gen2+IDEAL)w  
Lamps: 1 x Soleriq\_S13\_Gen2+\_50-2103CT+\_50-2100AN\_1327.38lm@250mA\_P=8.7850W\_I=0.250A



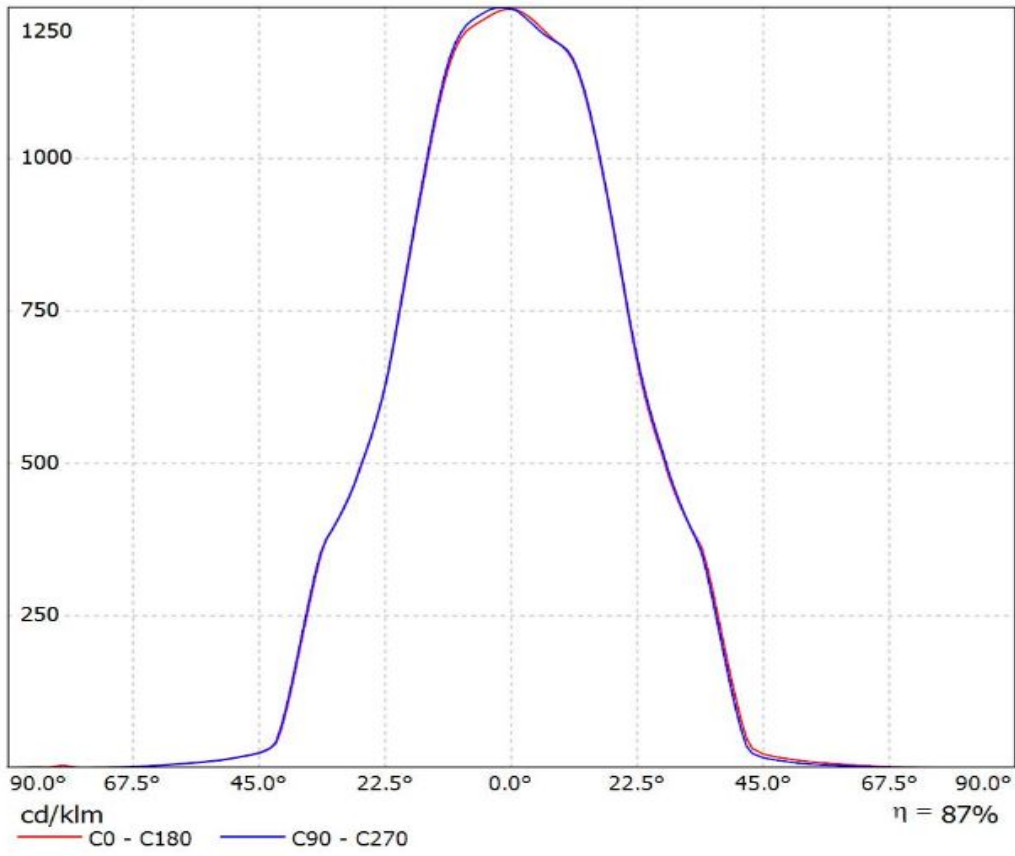
Luminaire: Ledil F14533\_ANGELETTE-M\_(SLM\_G5\_LES\_15\_+TE)

Lamps: 1 x Philips\_SLM\_G5\_LES\_15\_+TE\_2213194-1\_1277.72lm@250mA\_P=8.208W\_I=0.25A



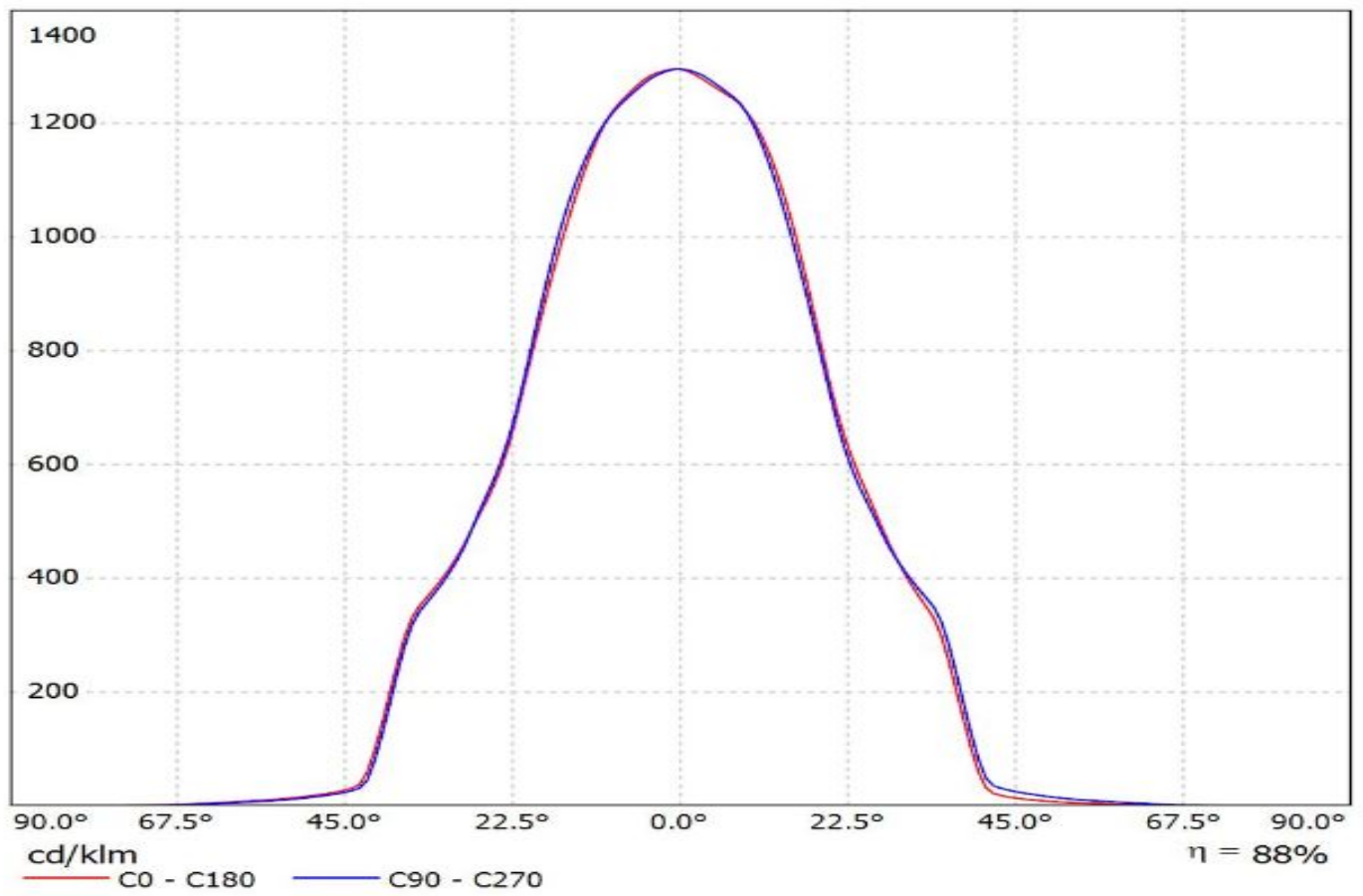
Luminaire: Ledil F14533\_ANGELETTE-M\_(SLM\_1208\_L15\_G6+TE)

Lamps: 1 x Fortimo\_SLM\_1208\_L15\_G6\_Standard\_(+OPTIC\_CLIP\_Z50\_TYPE1\_2213194-1)\_1142.78lm@250mA\_P=8.26875W\_I=0.25A



Luminaire: Ledil F14533\_ANGELETTE-M\_(LC040C+TE)

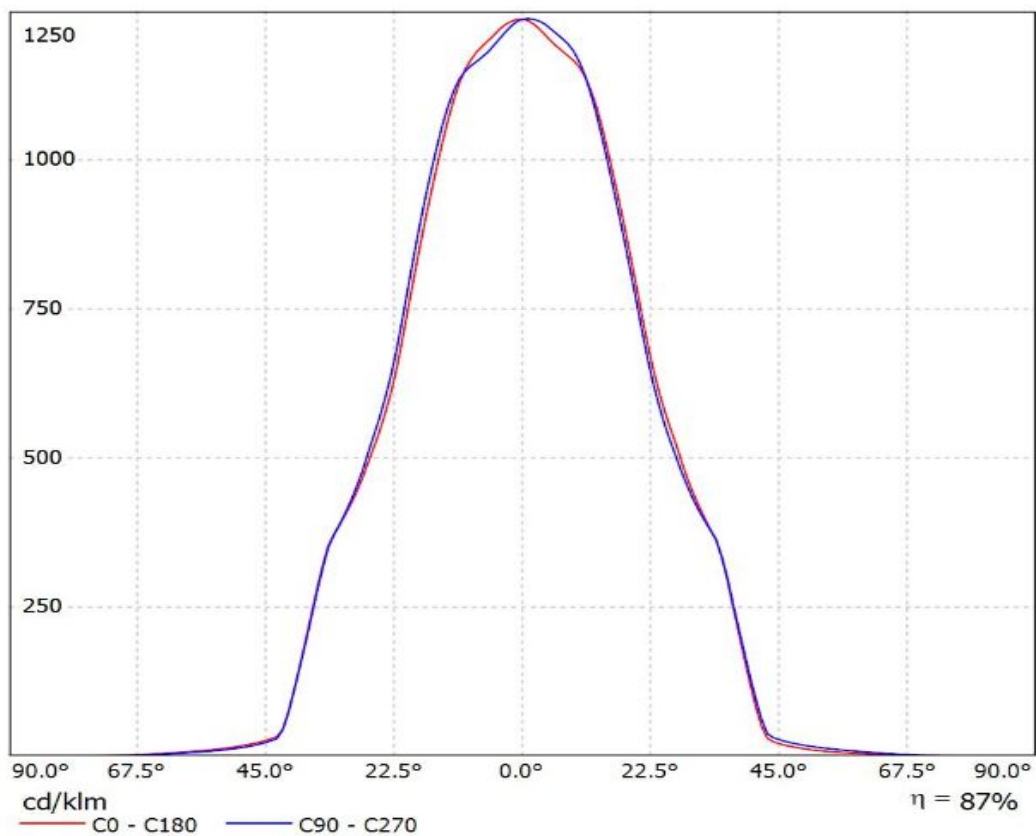
Lamps: 1 x Samsung\_LC040C+\_2213382-2+\_2213194-1\_1194.16lm@250mA\_CCT=4000K\_P=8.137W



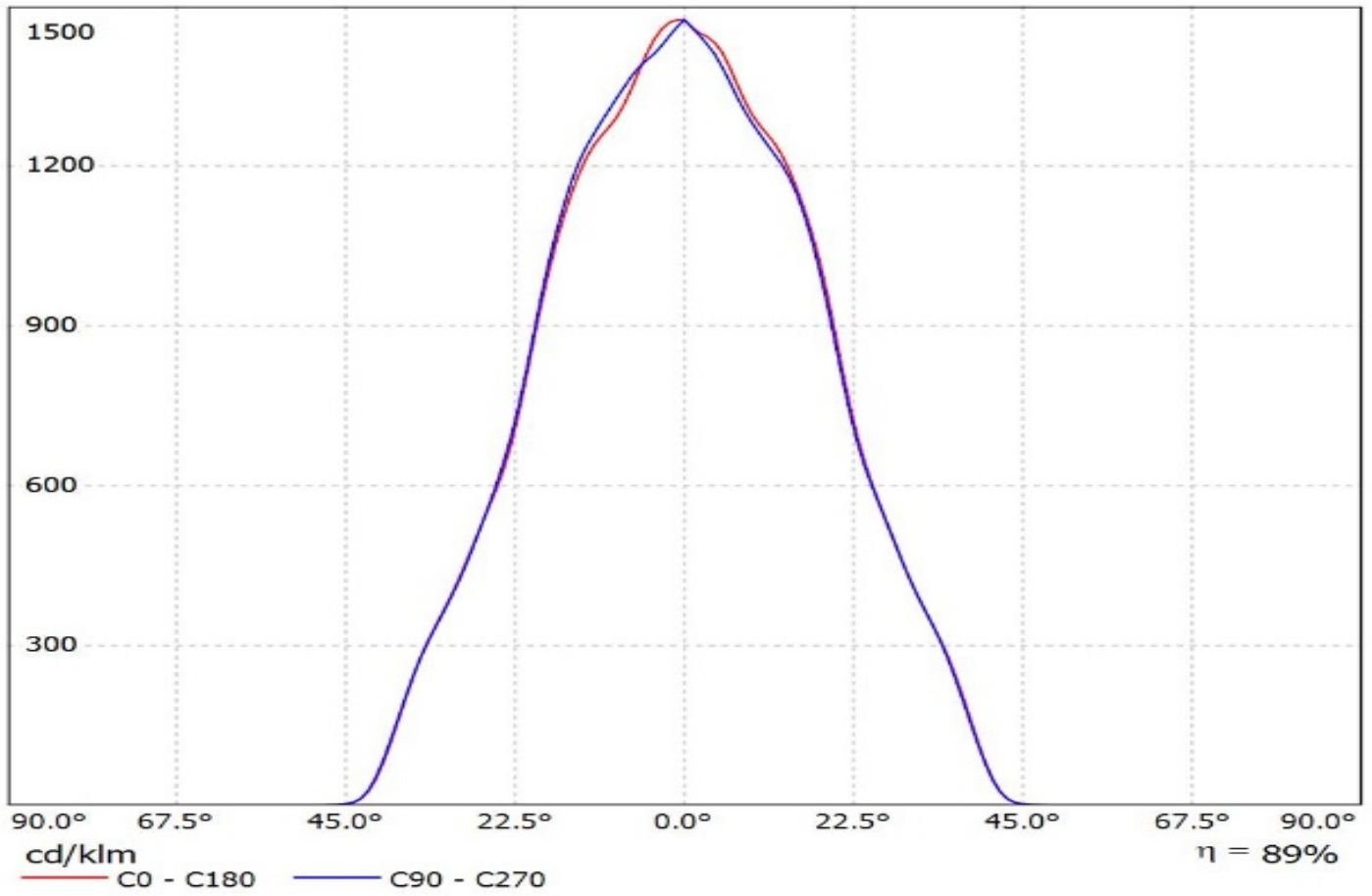


Luminaire: Ledil F14533\_ANGELETTE-M\_(MJT\_30W\_Les14,5)\_TE

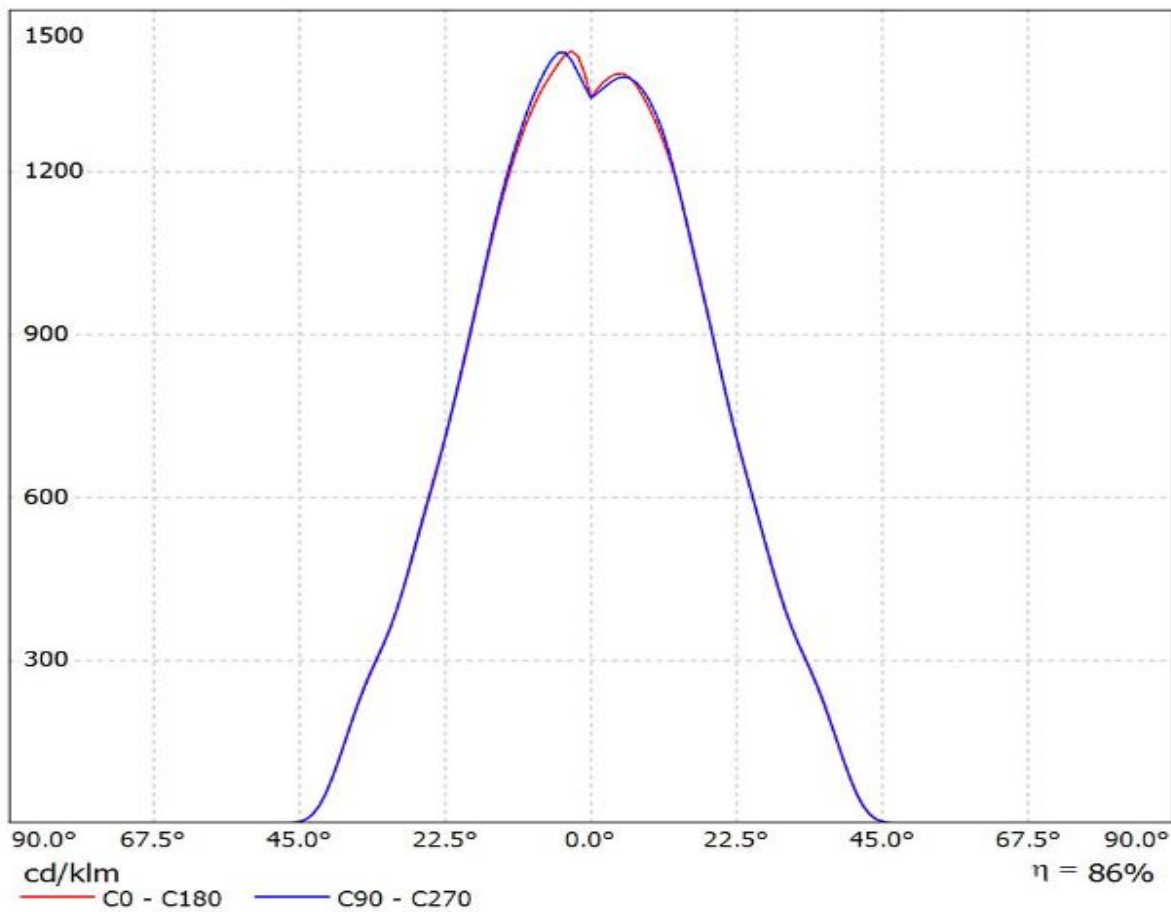
Lamps: 1 x Seoul\_MJT\_30W\_Les14,5mm\_(SAWx1566A)+TE\_2213254-2+\_TE\_2213194-1\_1328.6lm@250mA\_P=8.24025W\_I=0.25A



Luminaire: Ledil Oy F14533\_ANGELETTE-M\_(SLE\_G6\_LES15)\_(2213254-2\_+\_2213194-1)\_SIMULATED  
Lamps: 1 x Tridonic SLE G6 LES15 + Tyco Electronics 2213254-2 + TE 2213194-1 Optic clip

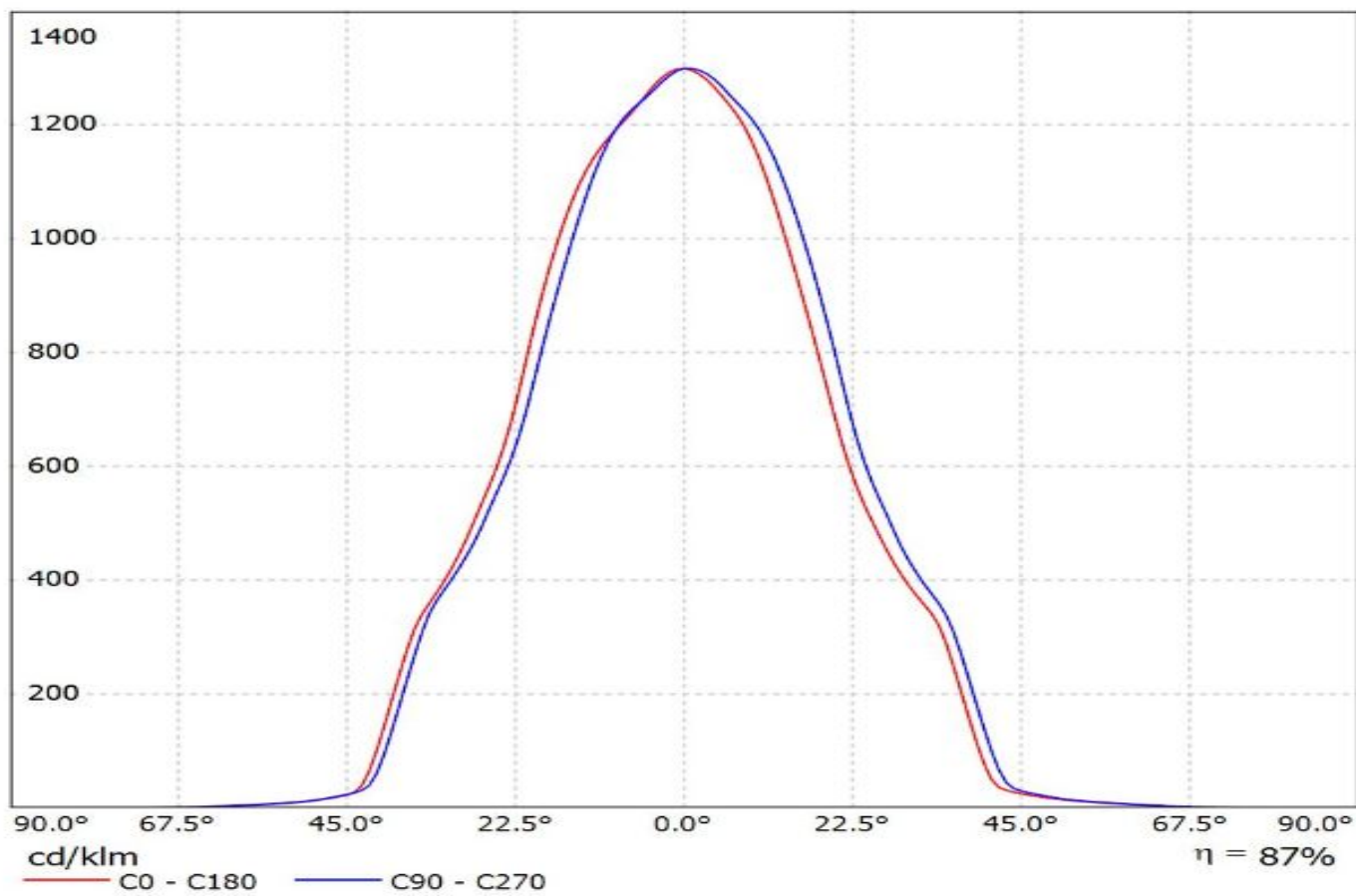


Luminaire: Ledil Oy F14533\_ANGELETTE-M+\_TE\_2213254-2+\_TE\_Z50\_Type1\_TRIDONIC\_SLE\_G6\_LES17\_SIMULATED  
Lamps: 1 x TRIDONIC SLE G6 LES17

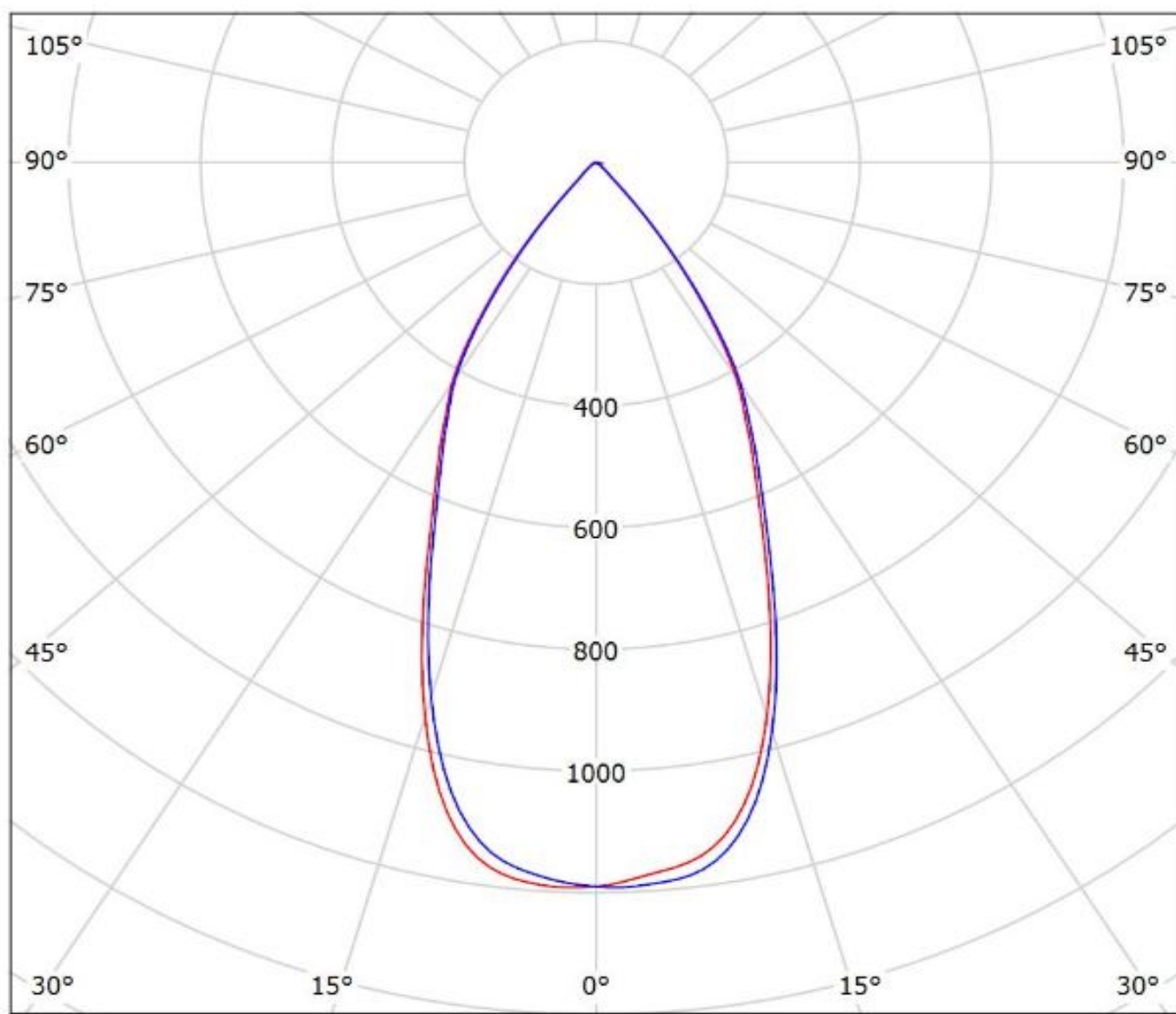


Luminaire: Ledil F14533\_ANGELETTE-M\_(WU-M-484+TE)

Lamps: 1 x Vossloh\_Schwabe\_WU-M-484-830\_681.21lm@250mA\_P=5.6195W\_I=0.25A



Luminaire: Ledil F14533\_ANGELETTE-M\_(V22+IDEAL)  
Lamps: 1 x Bridgelux\_V22\_(BXRE30E6500H-Y2)\_+50-2204CT\_+\_50-2100AN\_1193.54lm@250mA\_CCT=3000K\_P=8.0988W\_I=0.25A



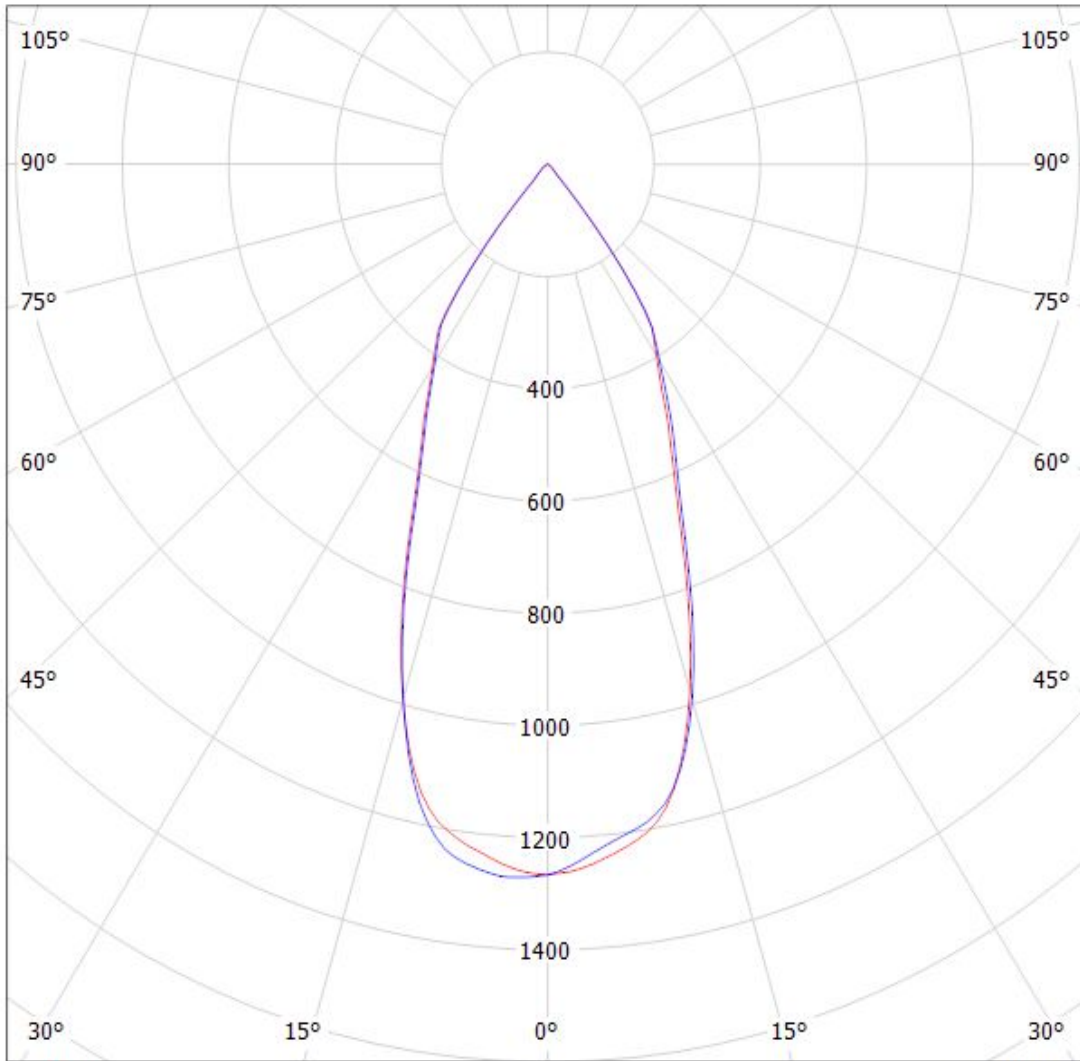
cd/klm

— C0 - C180    — C90 - C270

$\eta = 88\%$

Luminaire: LEDiL Oy F14533\_ANGELETTE-M\_(V13\_Gen7)+TE

Lamps: 1 x Bridgelux\_V13\_Gen7\_(BXRE-30E2000-B\_+TE\_2213254-2+TE\_2213194-1)\_1295.55lm@250mA\_P=8.30985W\_I=0.25A



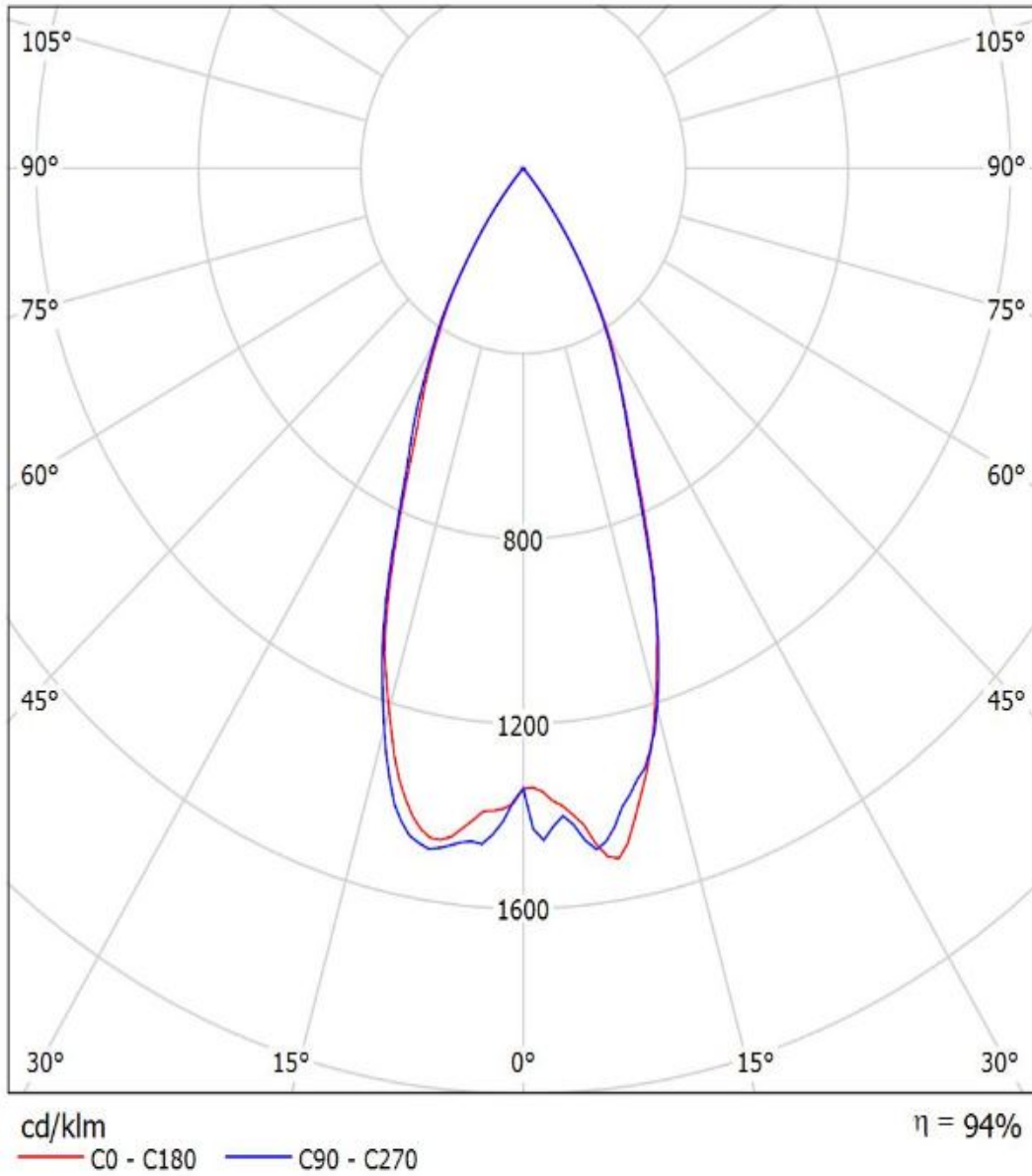
cd/klm

— C0 - C180

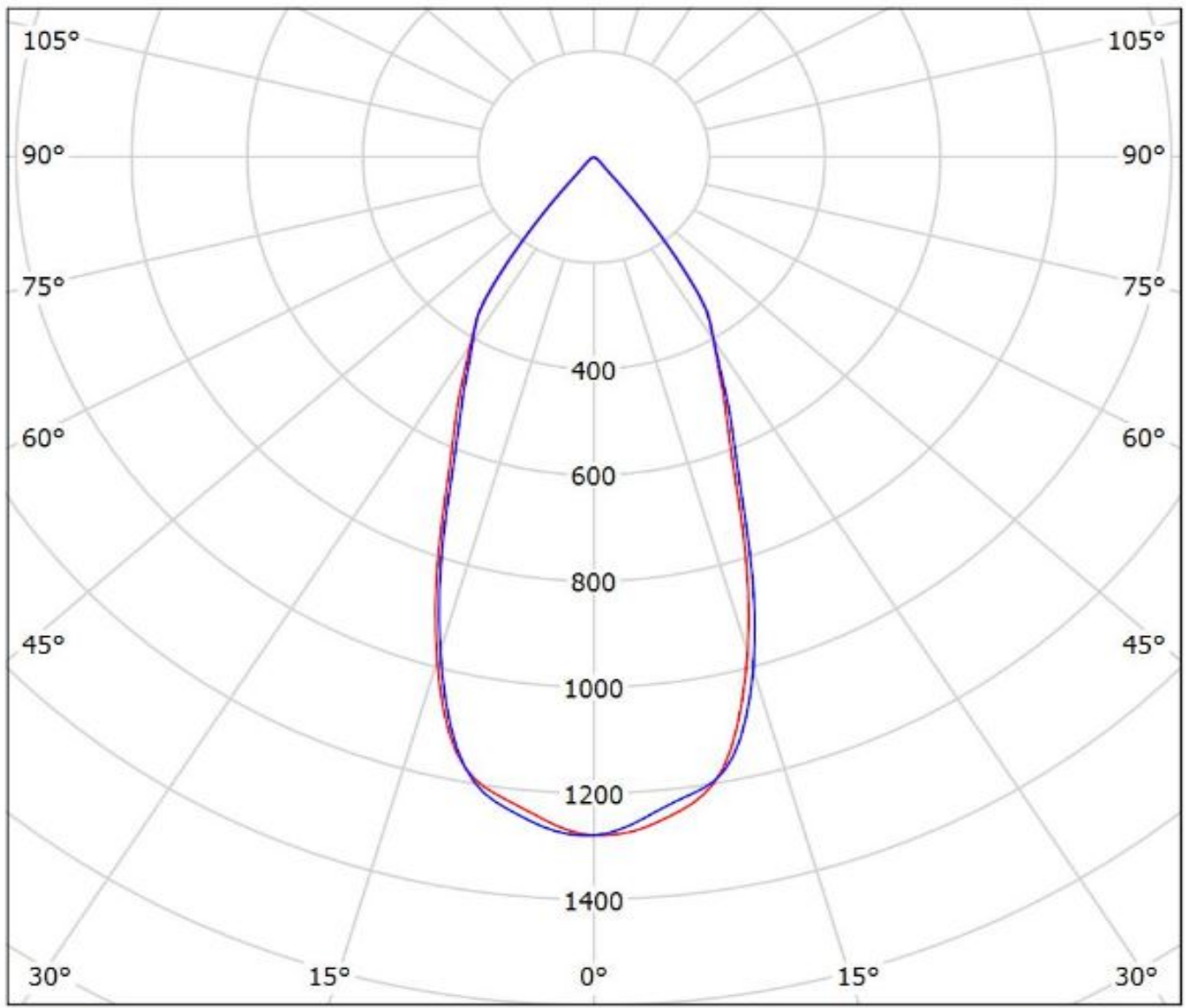
— C90 - C270

$\eta = 88\%$

Luminaire: Ledil Oy F14533\_ANGELETTE-M\_Bridgelux\_V22\_Gen7\_SIMULATED F14533\_ANGELETTE-M\_Bridgelux\_V22\_Gen7\_SIMULATI  
Lamps: 1 x F14533\_ANGELETTE-M\_Bridgelux\_V22\_Gen7\_SIMULATED



Luminaire: Ledil F14533\_ANGELETTE-M\_(CLU038+TE)  
Lamps: 1 x Citizen\_CLU038\_(-1205C4-273MZK1)\_+2213254-2\_+2213194-  
1\_1351.18lm@250mA\_P=8.4078W\_I=0.25A



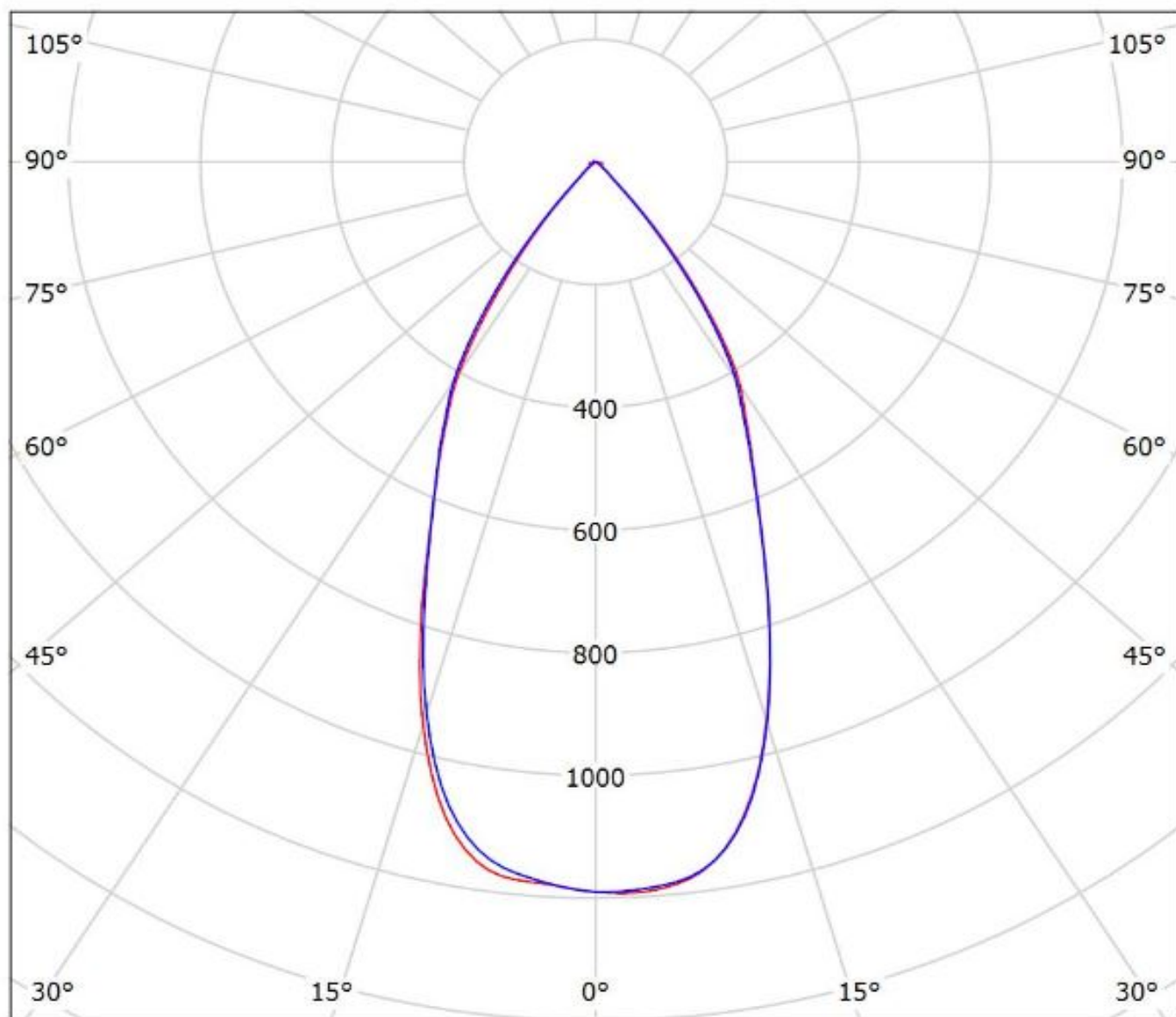
cd/klm  
— C0 - C180 — C90 - C270

$\eta = 88\%$



Luminaire: Ledil F14533\_ANGELETTE-M\_(CLU046+IDEAL)

Lamps: 1 x Citizen\_CLU046\_(-1212C1-303M2G2)\_1383.92lm@250mA\_CCT=3000K\_P=8.122W\_I=0.25A



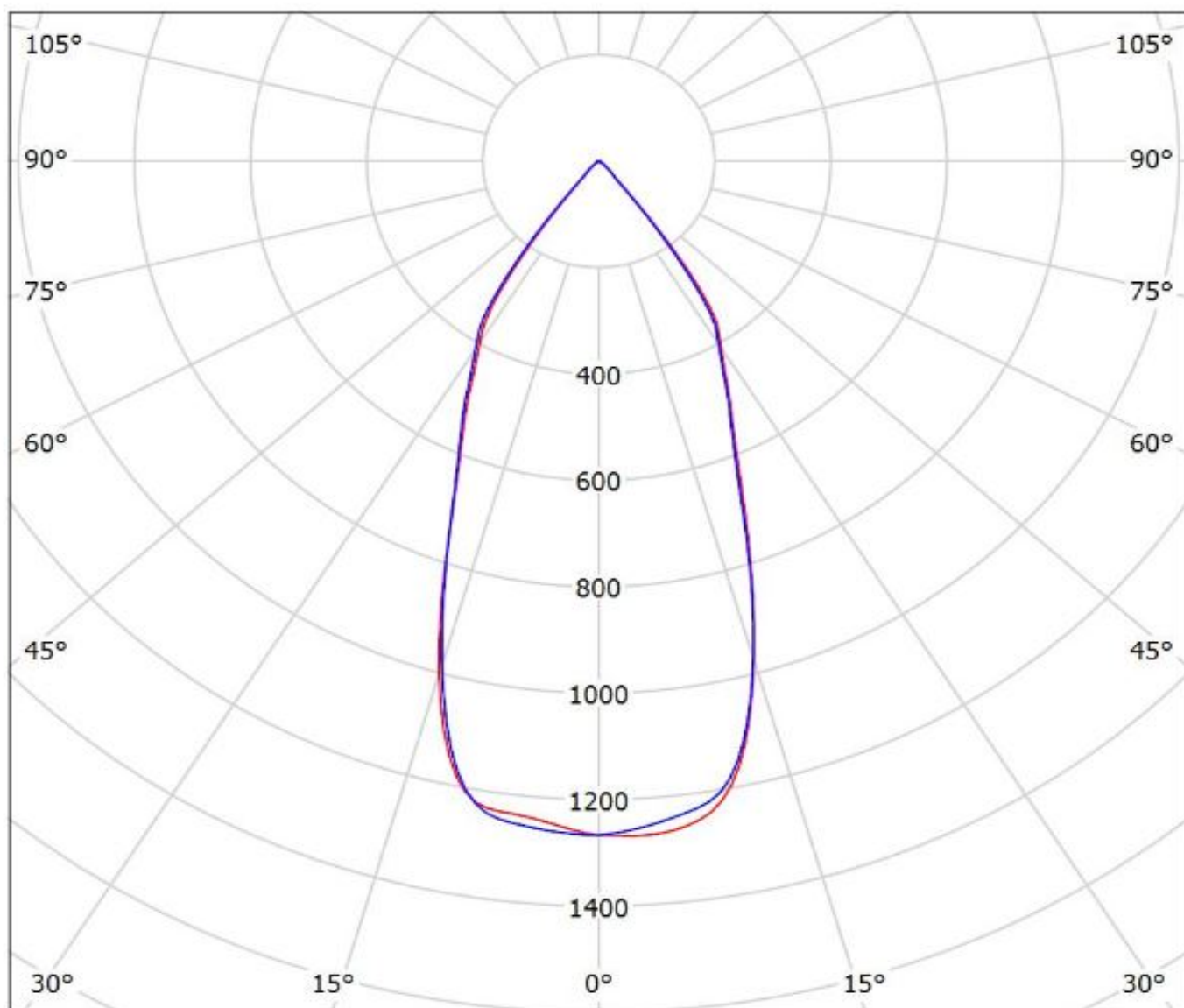
cd/klm

— C0 - C180

— C90 - C270

η = 88%

Luminaire: Ledil F14533\_ANGELETTE-M\_(CLU036+IDEAL)  
Lamps: 1 x CITIZEN\_CLU036\_(-1208C1-303M2G2)\_IDEAL\_50-2103CT+50-2100AN\_1299.86lm@250mA\_CCT=3000K\_P=8.249W\_I=0.25A



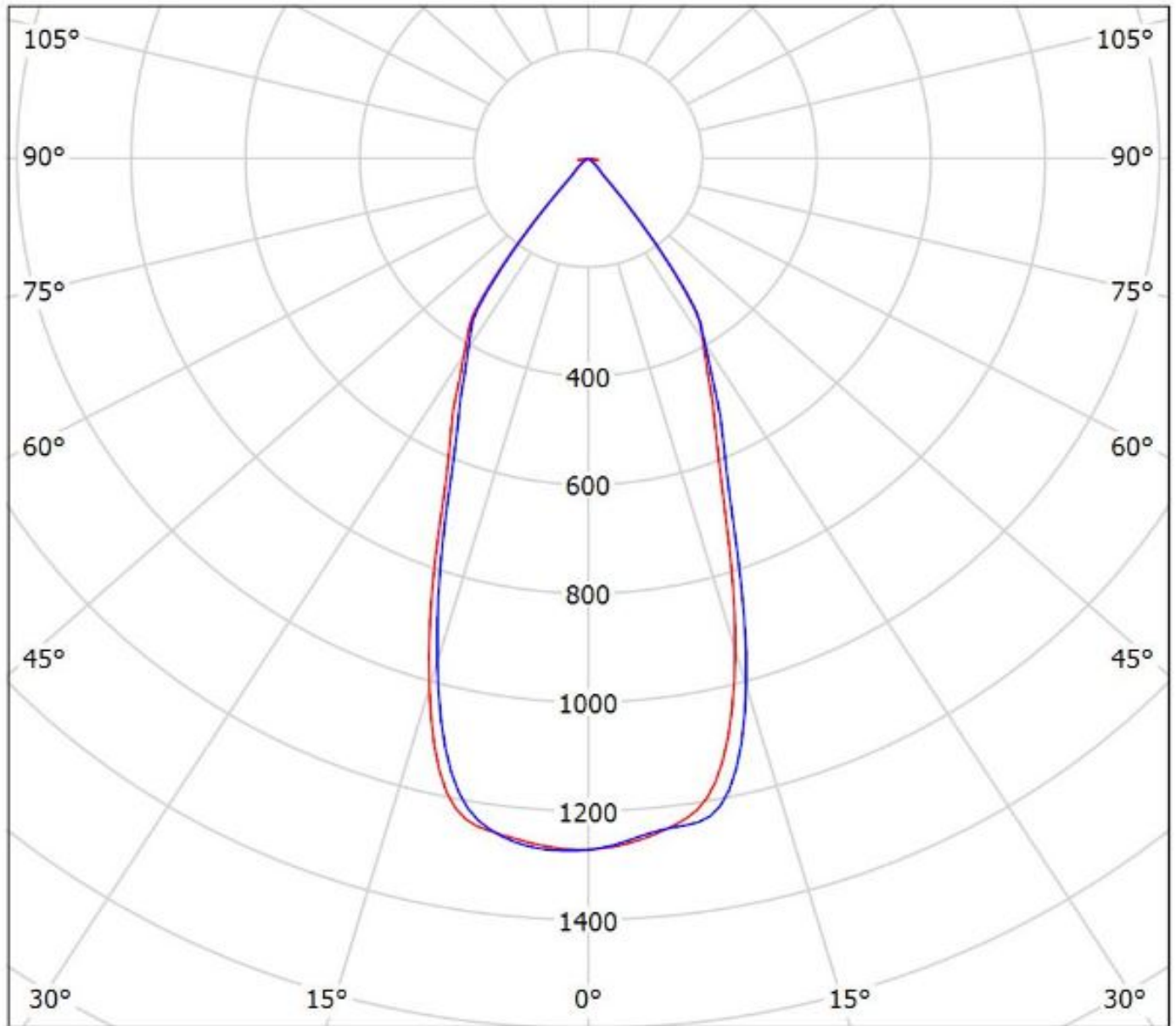
cd/klm

— C0 - C180 — C90 - C270

$\eta = 87\%$

Luminaire: Ledil F14533\_ANGELETTE-M (CLU730+IDEAL)

Lamps: 1 x Citizen\_CLU730\_(-1210B8-273M2G1)\_IDEAL\_50-2204C+50-2100AN



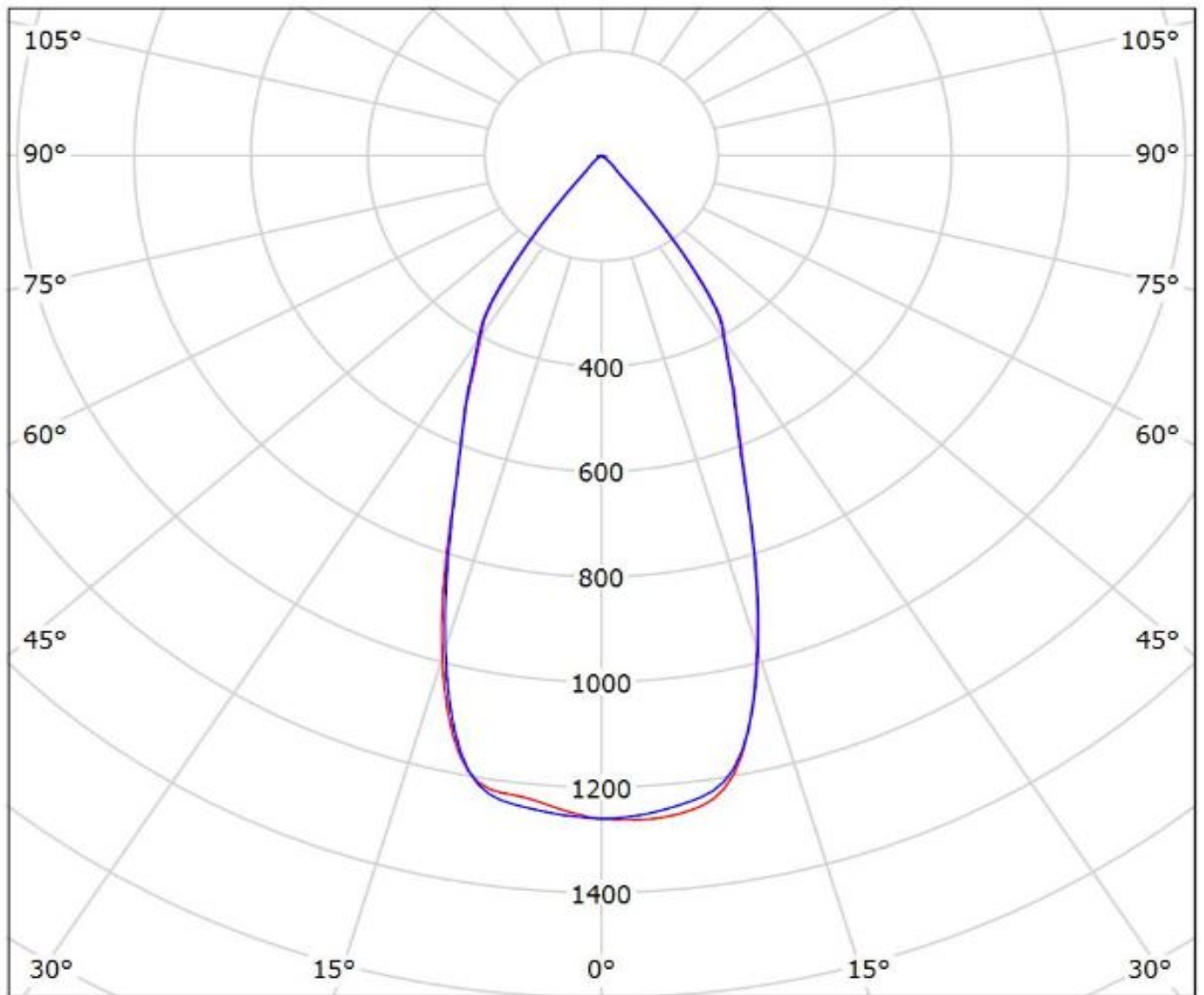
cd/klm

— C0 - C180

— C90 - C270

$\eta = 87\%$

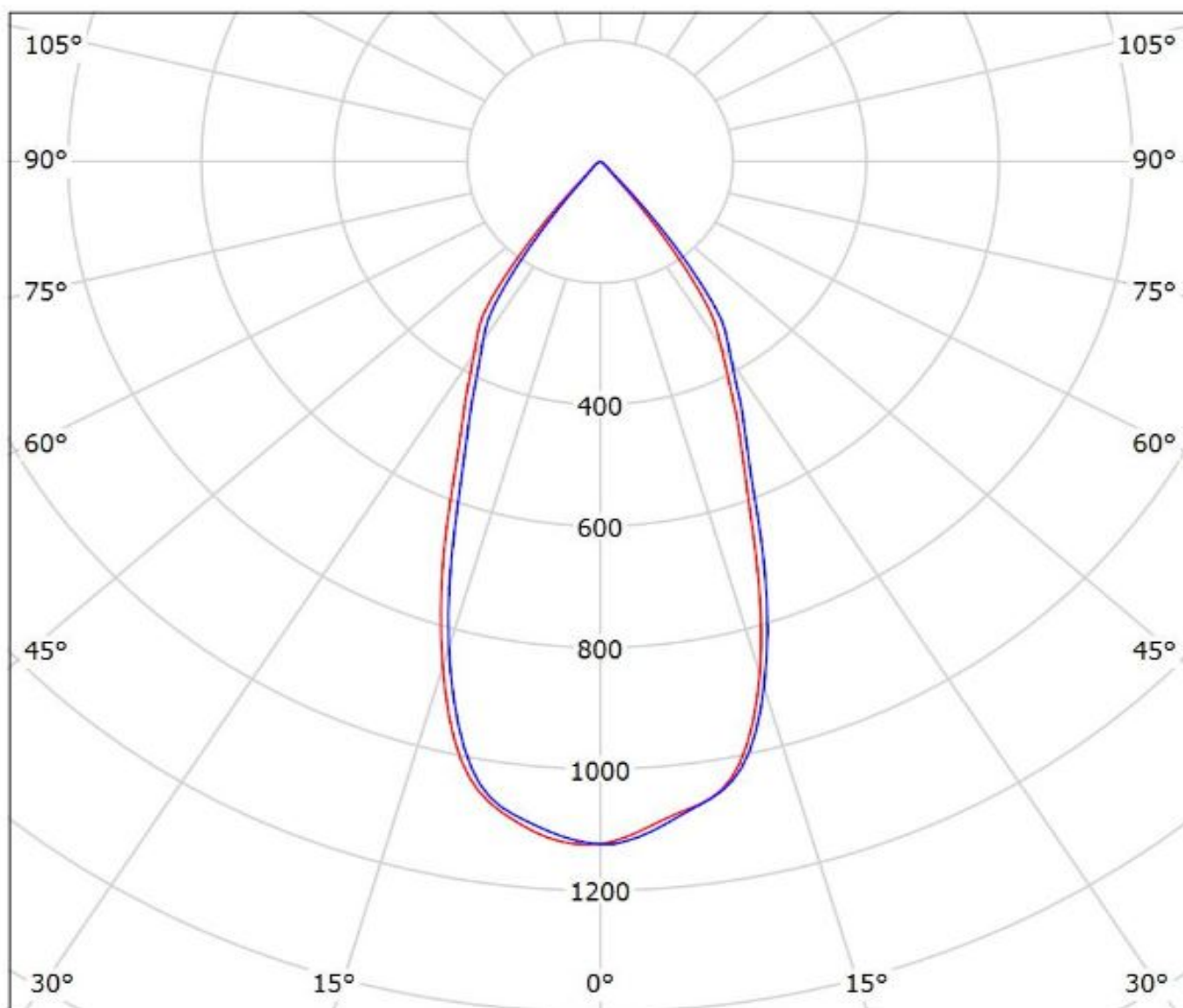
Luminaire: Ledil F14533\_ANGELETTE-M\_(CoB1208+IDEAL)  
Lamps: 1 x Luxeon\_CoB1208\_+\_50-2100SH+50-2100AN\_1062.11lm@250mA\_CCT=3000K\_P=8.3007W\_I=0.25A



cd/klm  
— C0 - C180 — C90 - C270

$\eta = 88\%$

Luminaire: Ledil F14533\_ANGELETTE-M\_(CoB1208+TE)  
Lamps: 1 x Luxeon\_CoB1208\_+ 2213130-2\_+ 2213194-1\_1062.11lm@250mA\_CCT=3000K\_P=8.3007W\_I=0.25A

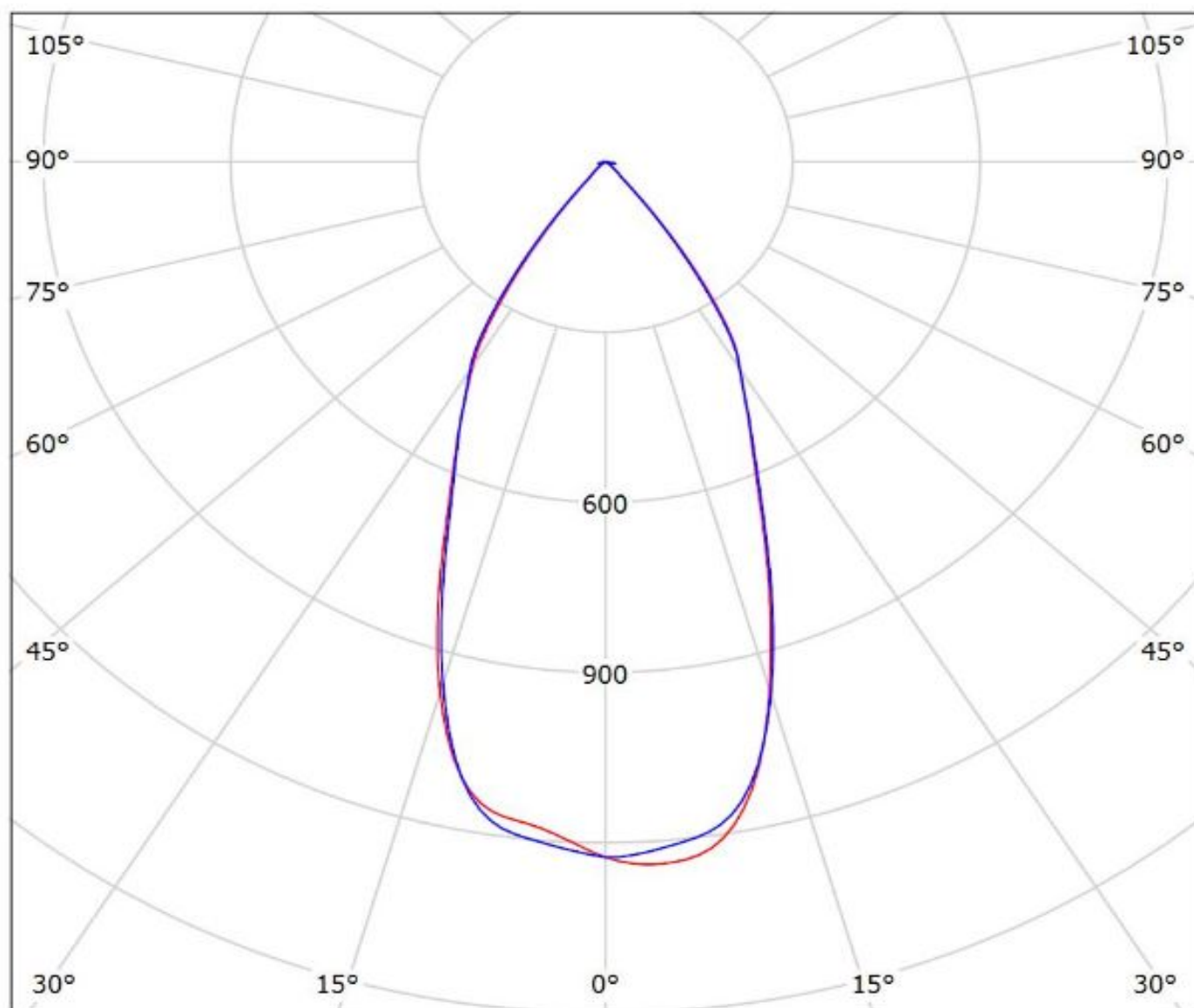


cd/klm

— C0 - C180 — C90 - C270

$\eta = 78\%$

Luminaire: Ledil F14533\_ANGELETTE-M\_(CoB1211+IDEAL)  
Lamps: 1 x Luxeon\_CoB1211\_(L2C2-4080)\_50-2204CT+50-2100AN\_1376.18lm@250mA\_P=7.9988W\_I=0.25A

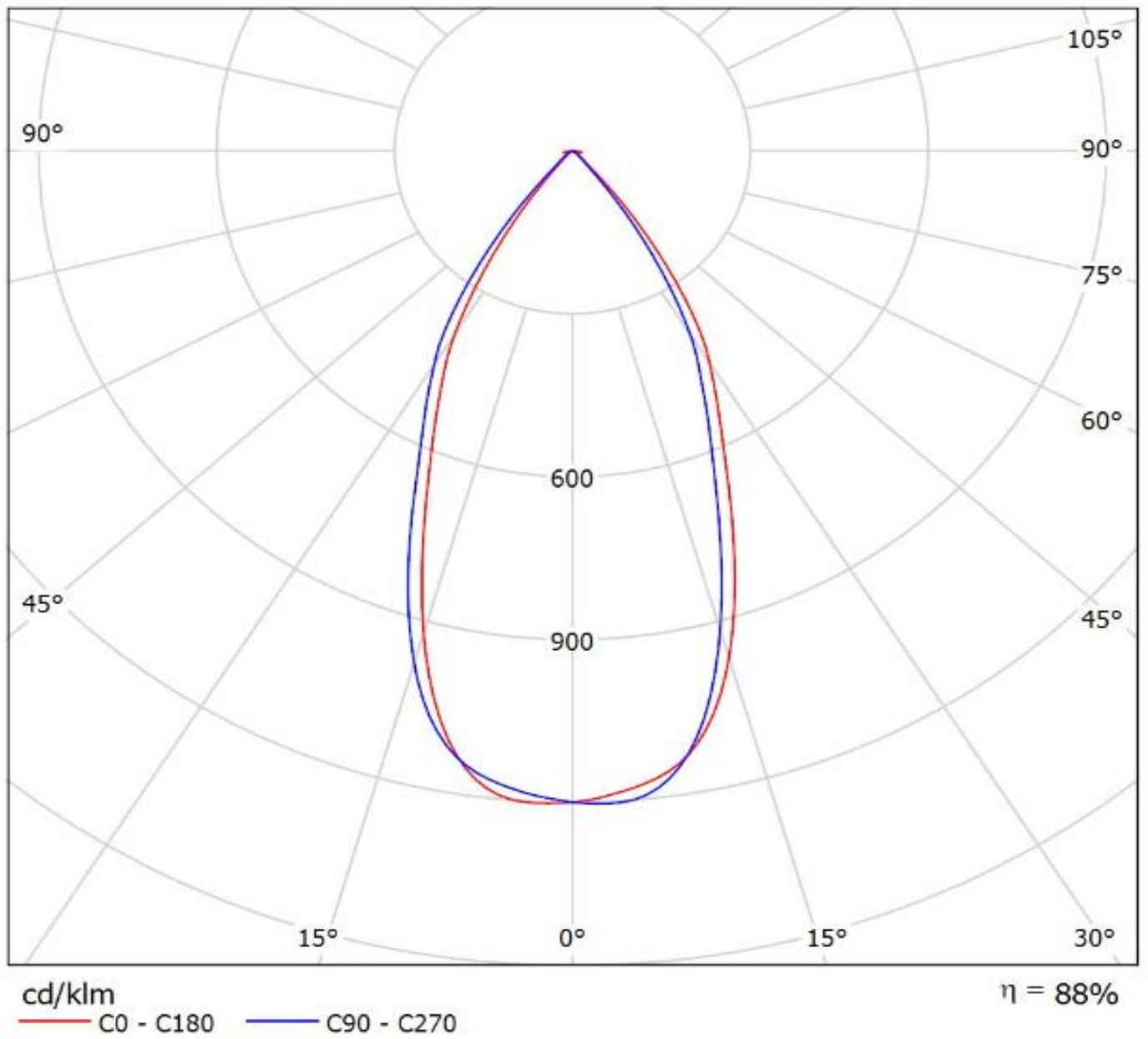


cd/klm

— C0 - C180 — C90 - C270

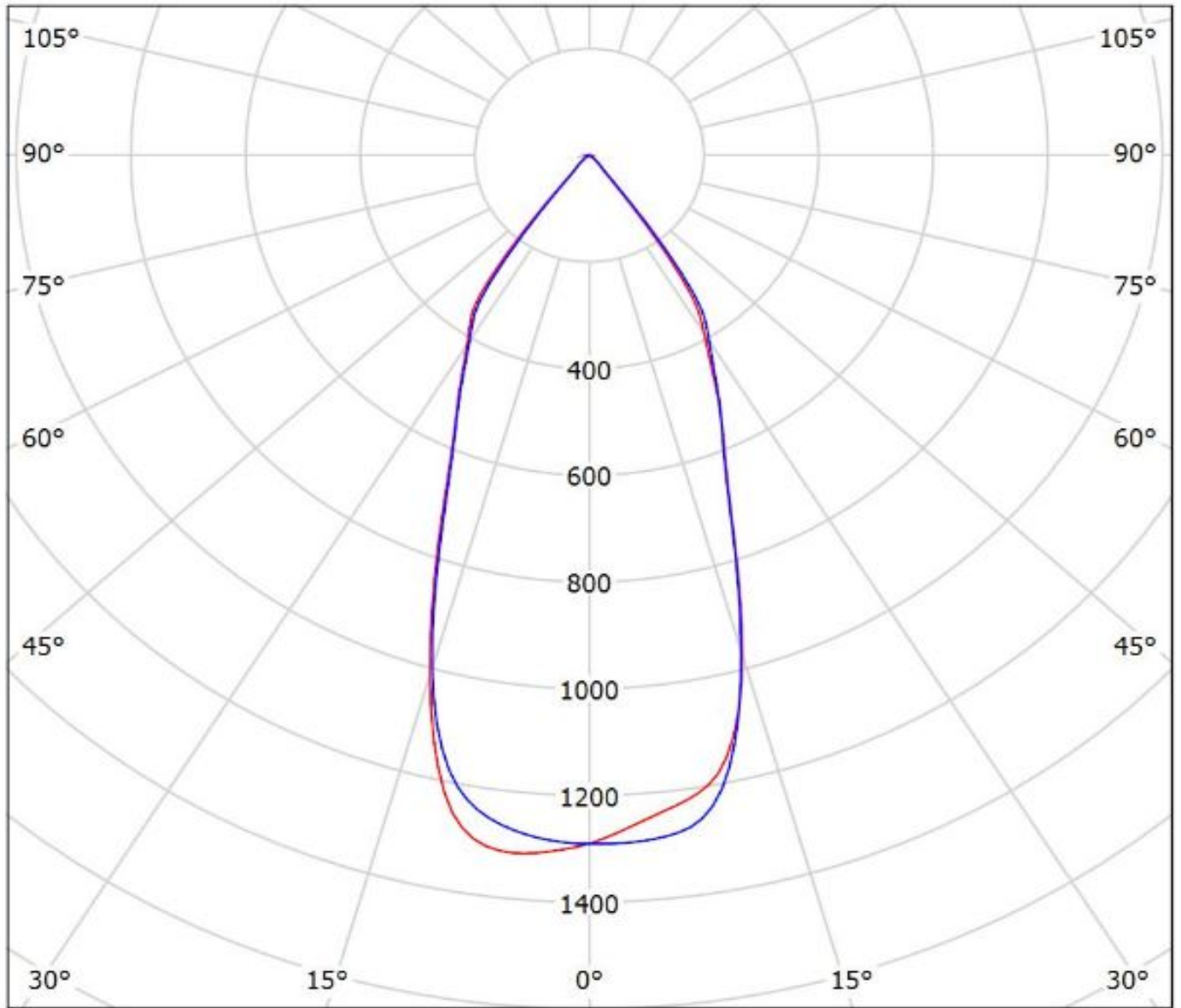
$\eta = 88\%$

Luminaire: Ledil F14533\_ANGELETTE-M\_(CoB1216\_IDEAL)  
Lamps: 1 x Luxeon\_CoB1216\_(L2C2-40801216E2300)\_+50-2204C\_+\_50-2100AN\_1447.57lm@250mA\_CCT=4000K\_P=8.0135W\_I=0.25A



Luminaire: Ledil F14533\_ANGELETTE-M\_(NVCLL024Z+IDEAL)

Lamps: 1 x Nichia\_NVCxL024z\_(NVCLL024z)\_975.455lm@250mA\_P=8.1468W\_I=250A



cd/klm

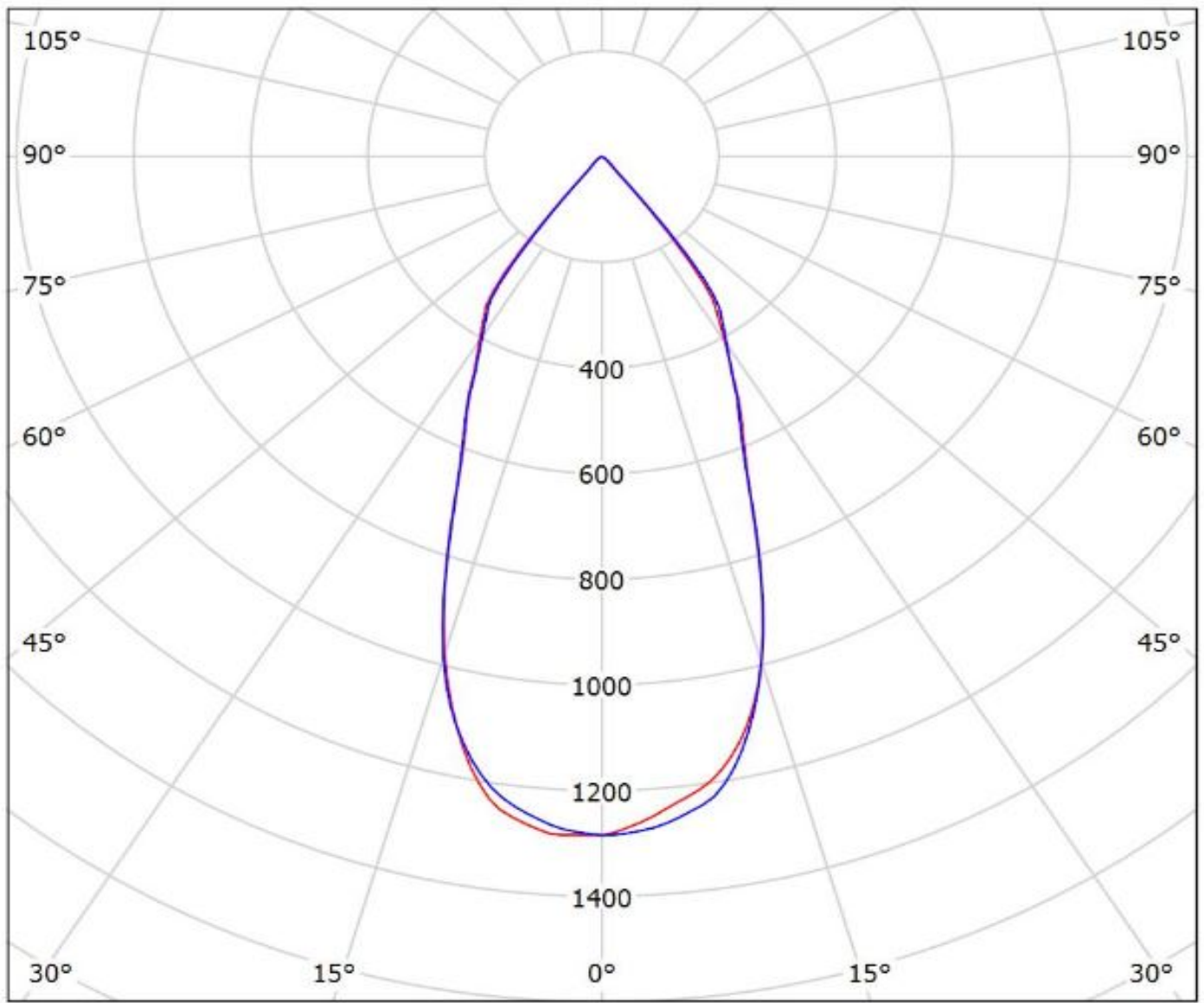
— C0 - C180

— C90 - C270

$\eta = 87\%$



Luminaire: Ledil F14533\_ANGELETTE-M\_(NVCLL024Z+TE)  
Lamps: 1 x Nichia\_NVCLL024Z\_+2213382-2\_+2213194-  
1\_971.485lm@250mA\_CCT=3000K\_P=8W\_I=0.25A



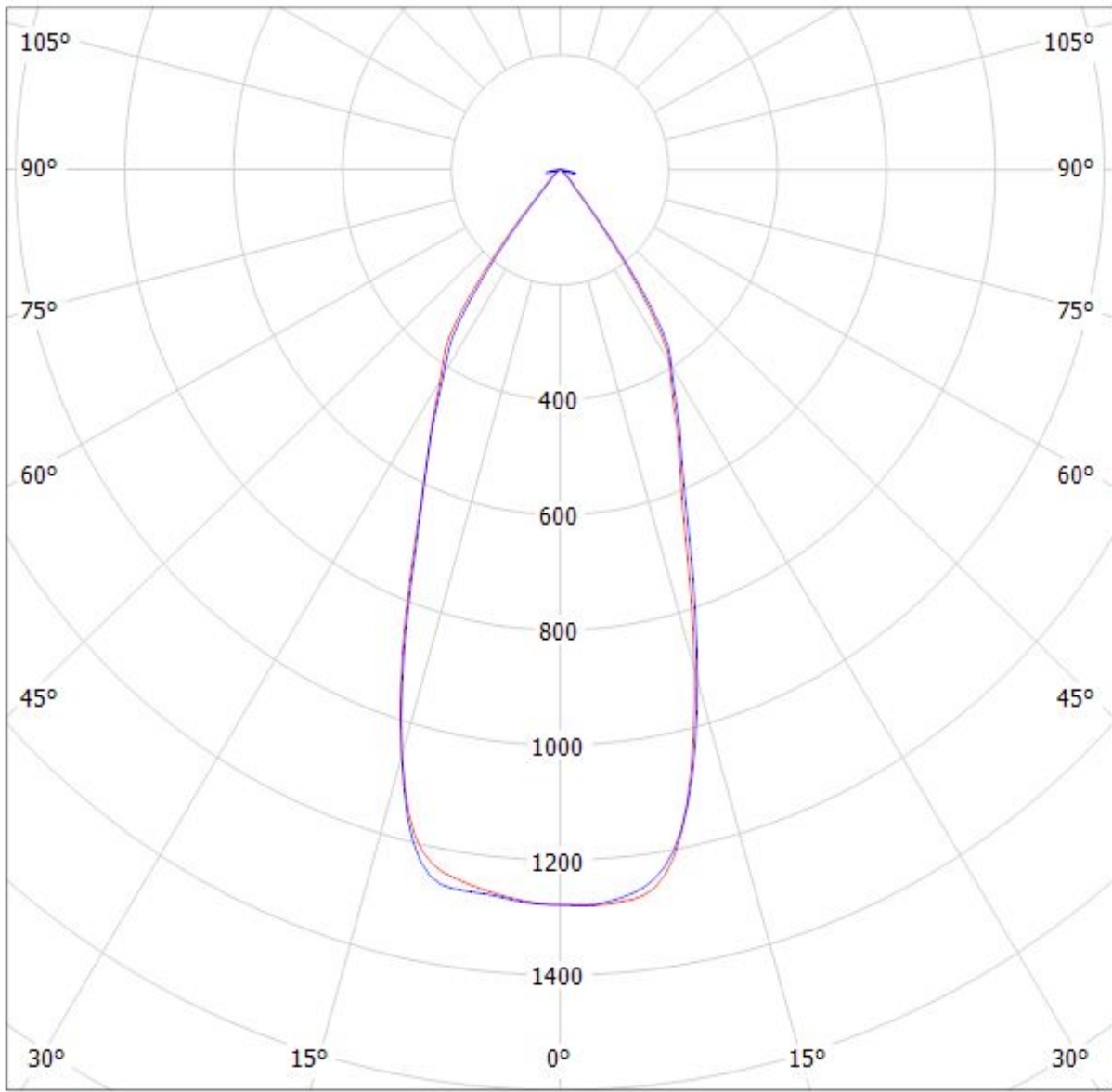
cd/klm

— C0 - C180 — C90 - C270

$\eta = 88\%$

Luminaire: LEDiL Oy F14533\_ANGELETTE-M\_(NFDLJ130B+IDEAL)

Lamps: 1 x Nichia\_NFDLJ130B\_+50-2103NC\_+50-2100AN\_1422.52lm@250mA\_CCT=4000K\_P=8.91686W\_I=0.25A



cd/klm

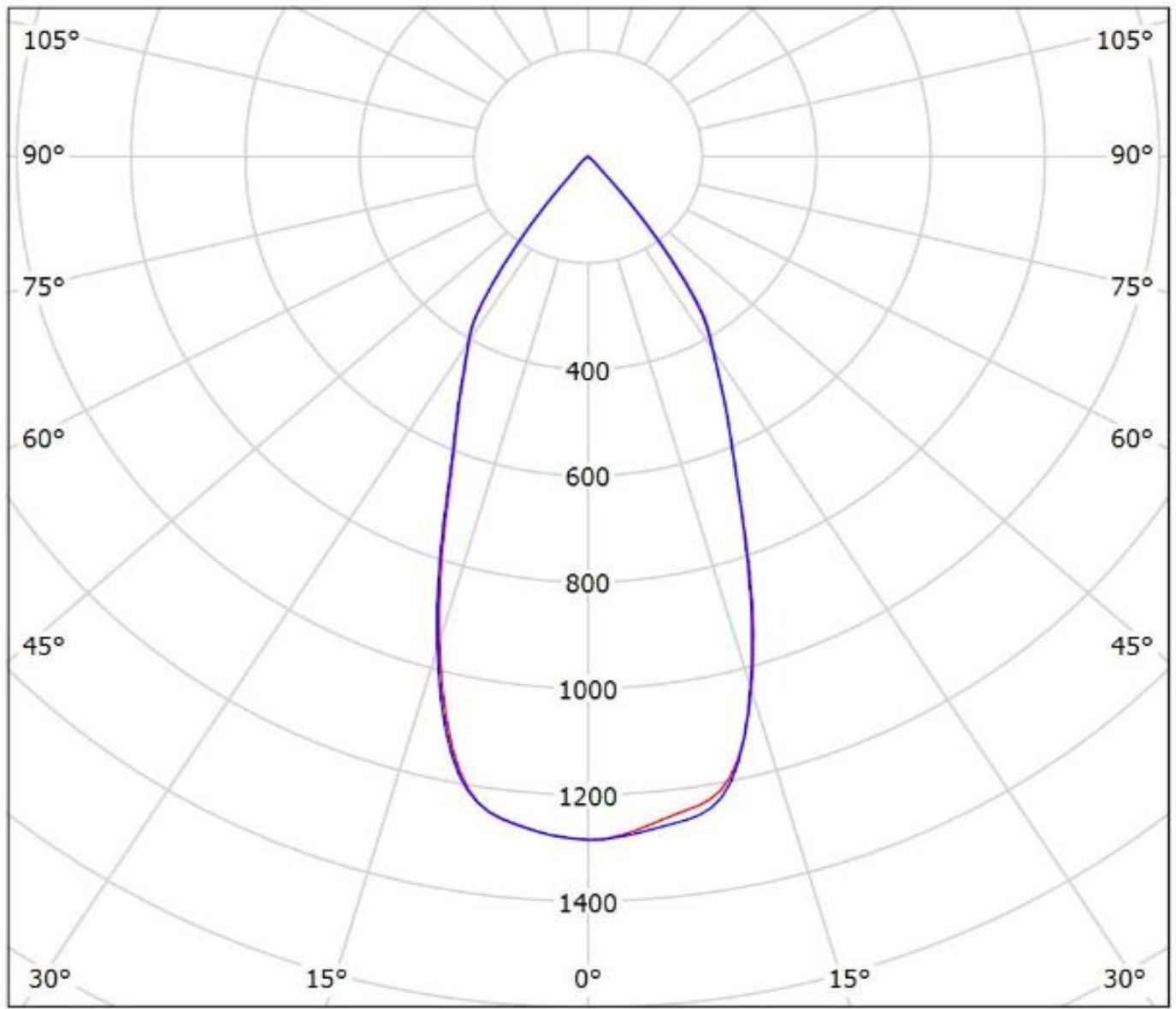
— C0 - C180

— C90 - C270

$\eta = 89\%$

Luminaire: Ledil F14533\_ANGELETTE-M\_(PREVALED\_Core\_Z4)

Lamps: 1 x PREVALED\_Core\_Z4\_LES19\_1470.62lm@250mA\_P=10.828W\_I=0.25A



cd/klm

— C0 - C180

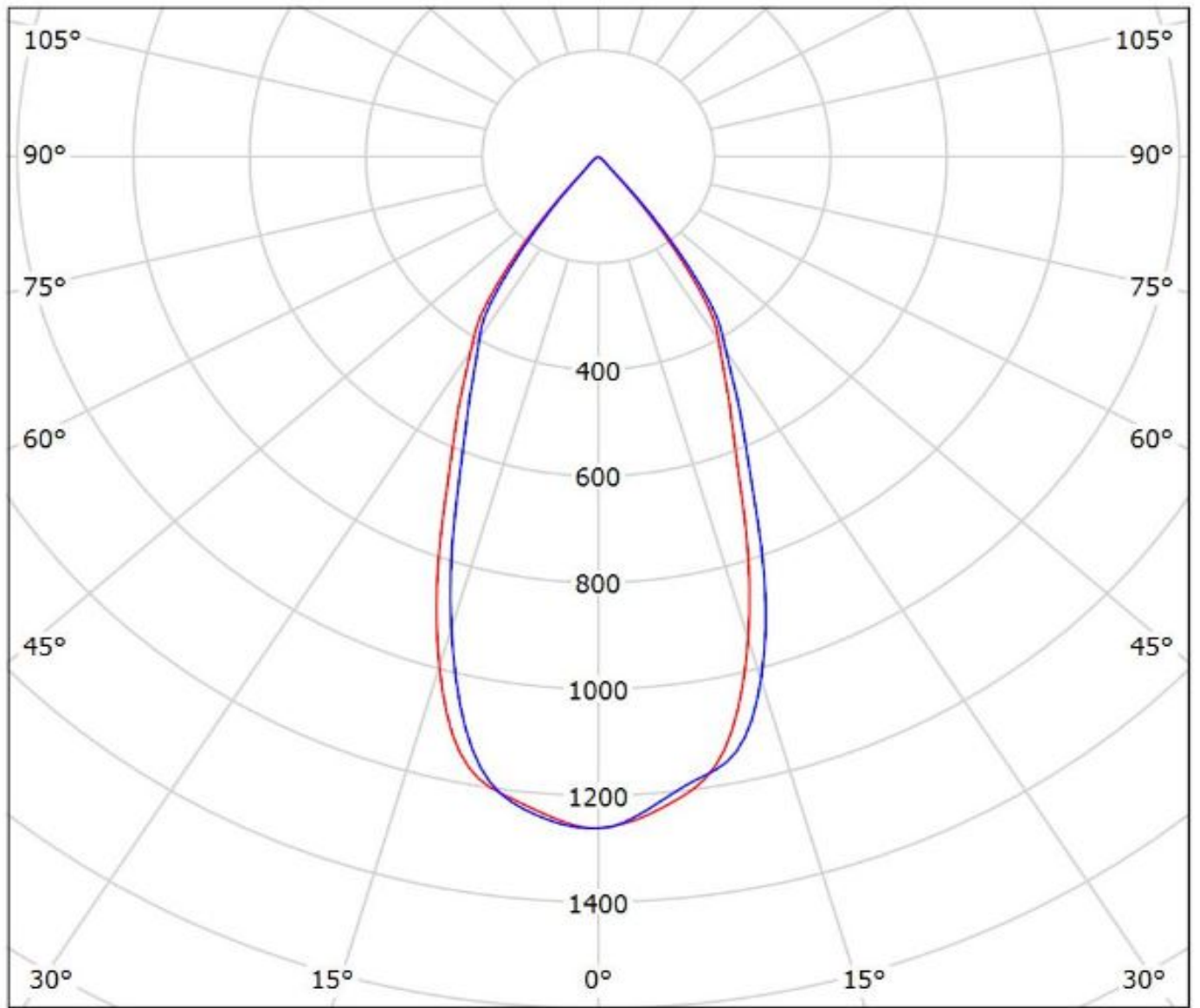
— C90 - C270

$\eta = 88\%$

Luminaire: Ledil F14533\_ANGELETTE-M\_(S19+TE)

Lamps: 1 x Osram\_Soleriq\_S19\_(GW\_KAHJB1.EM)\_+2213407-2+2213194-

1\_1546.1lm@250mA\_CCT=3000K\_P=11.021W\_I=0.25A



cd/klm

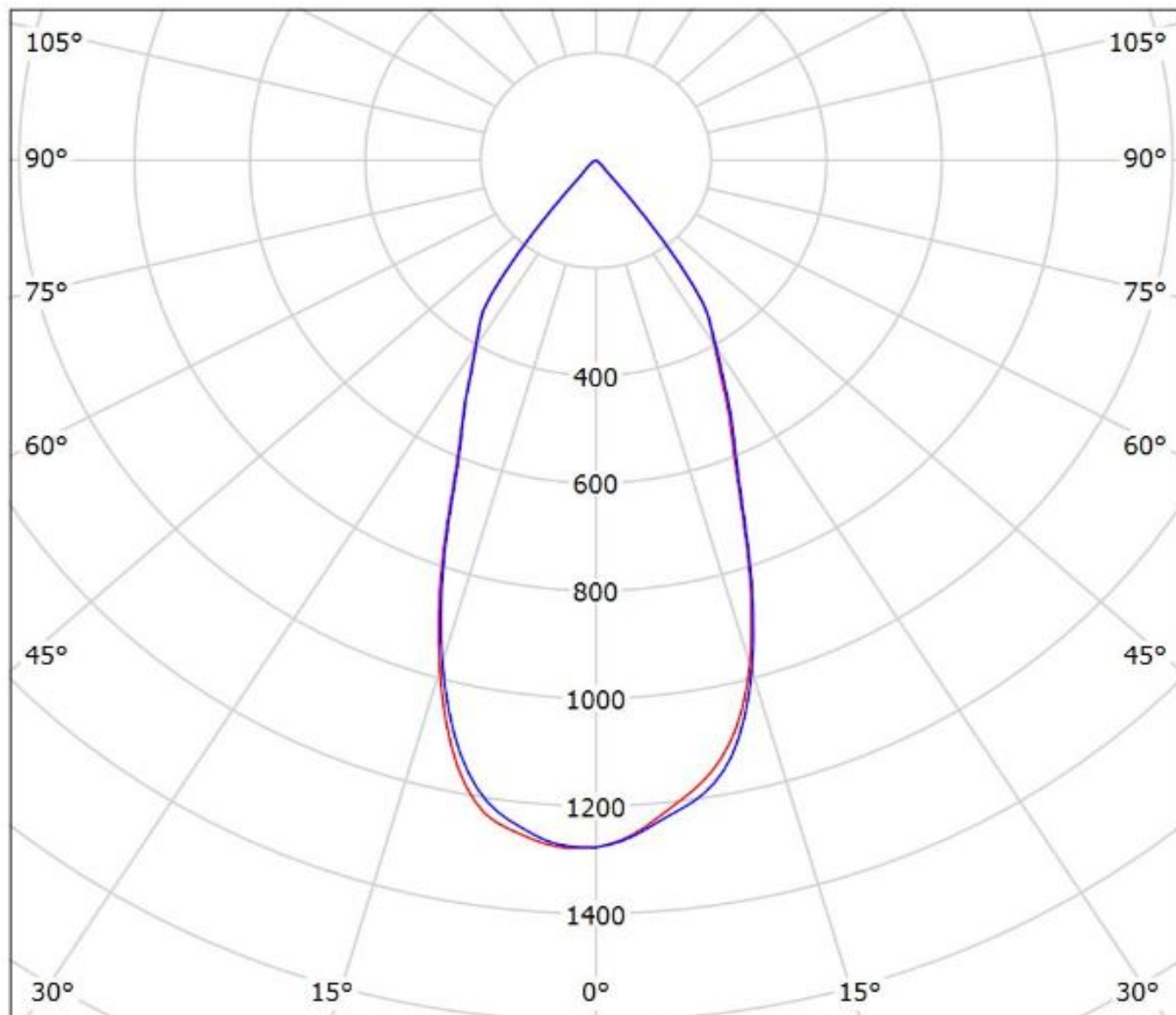
— C0 - C180

— C90 - C270

$\eta = 88\%$

Luminaire: Ledil F14533\_ANGELETTE-M\_(S13\_Gen2+TE)

Lamps: 1 x Soleriq\_S13\_Gen2+\_2213254-2+\_2213194-1\_1309.23lm@250mA\_P=8.7840W\_I=0.250A



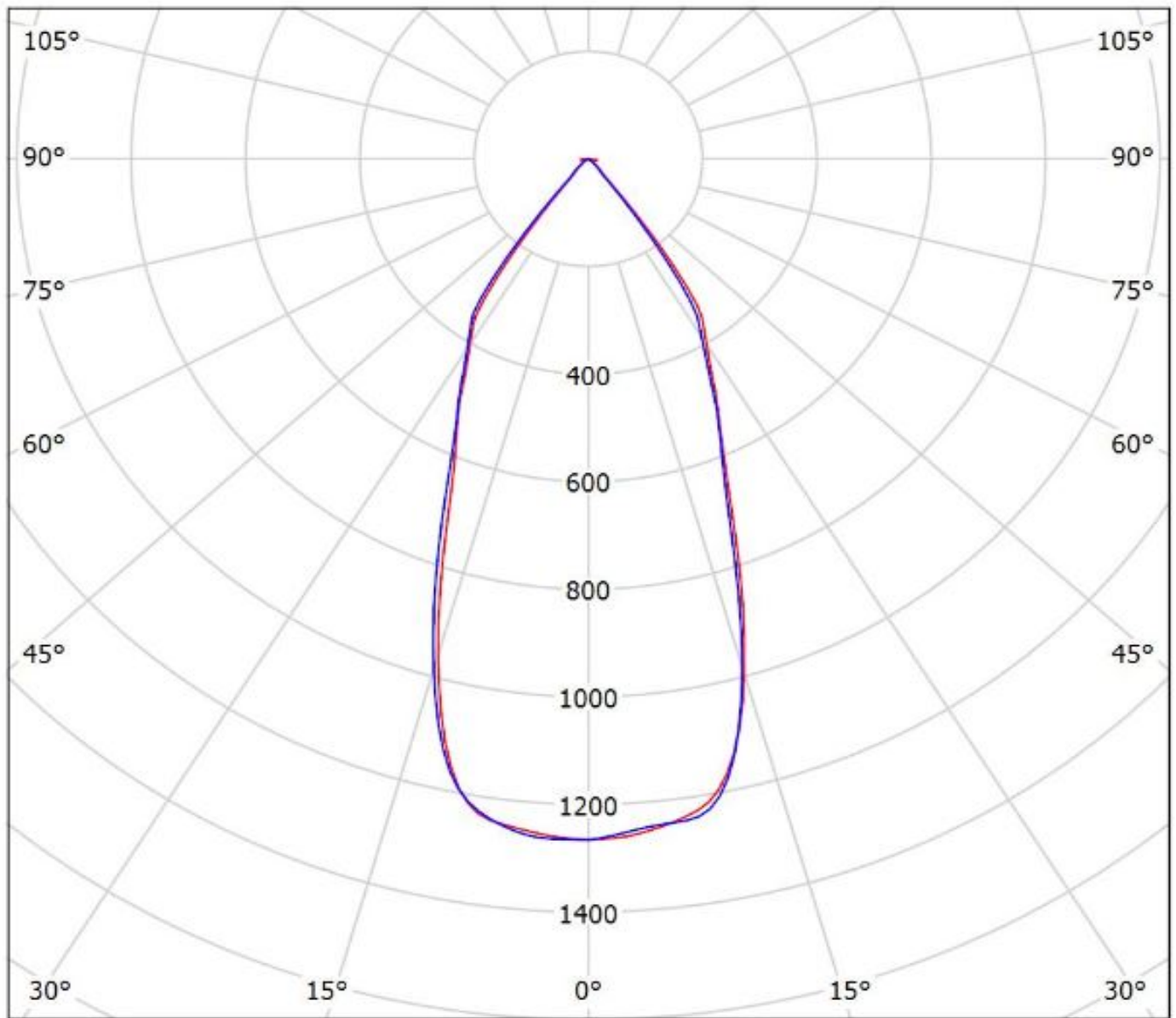
cd/klm

— C0 - C180 — C90 - C270

$\eta = 87\%$

Luminaire: Ledil F14533\_ ANGELETTE-M\_(S13\_Gen2+IDEAL)w

Lamps: 1 x Soleriq\_S13\_Gen2+\_50-2103CT+\_50-2100AN\_1327.38lm@250mA\_P=8.7850W\_I=0.250A



cd/klm

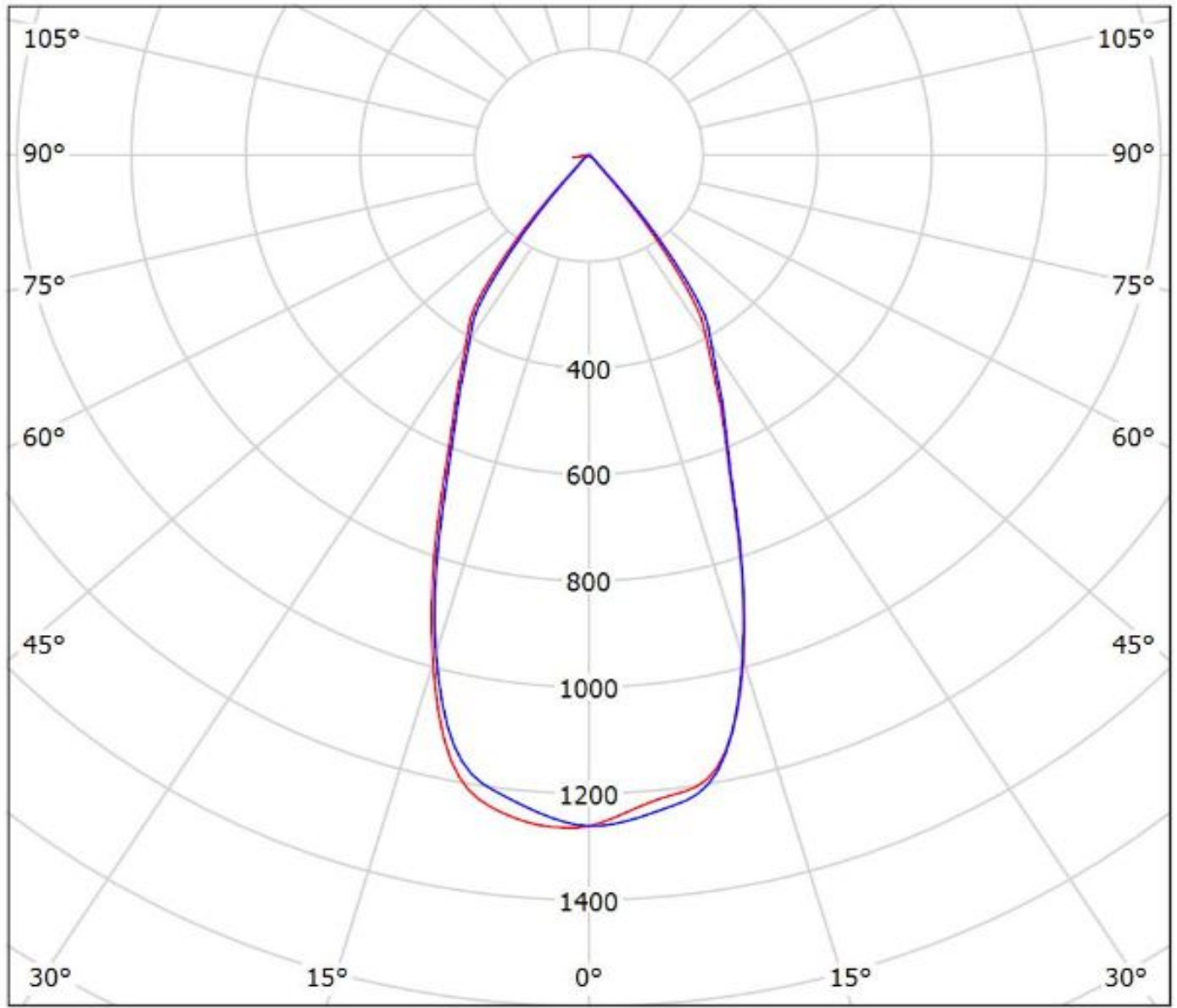
— C0 - C180

— C90 - C270

$\eta = 87\%$

Luminaire: Ledil F14533\_ANGELETTE-M (SLM\_G5\_LES\_15\_+TE)

Lamps: 1 x Philips\_SLM\_G5\_LES\_15\_+TE\_2213194-1\_1277.72lm@250mA\_P=8.208W\_I=0.25A



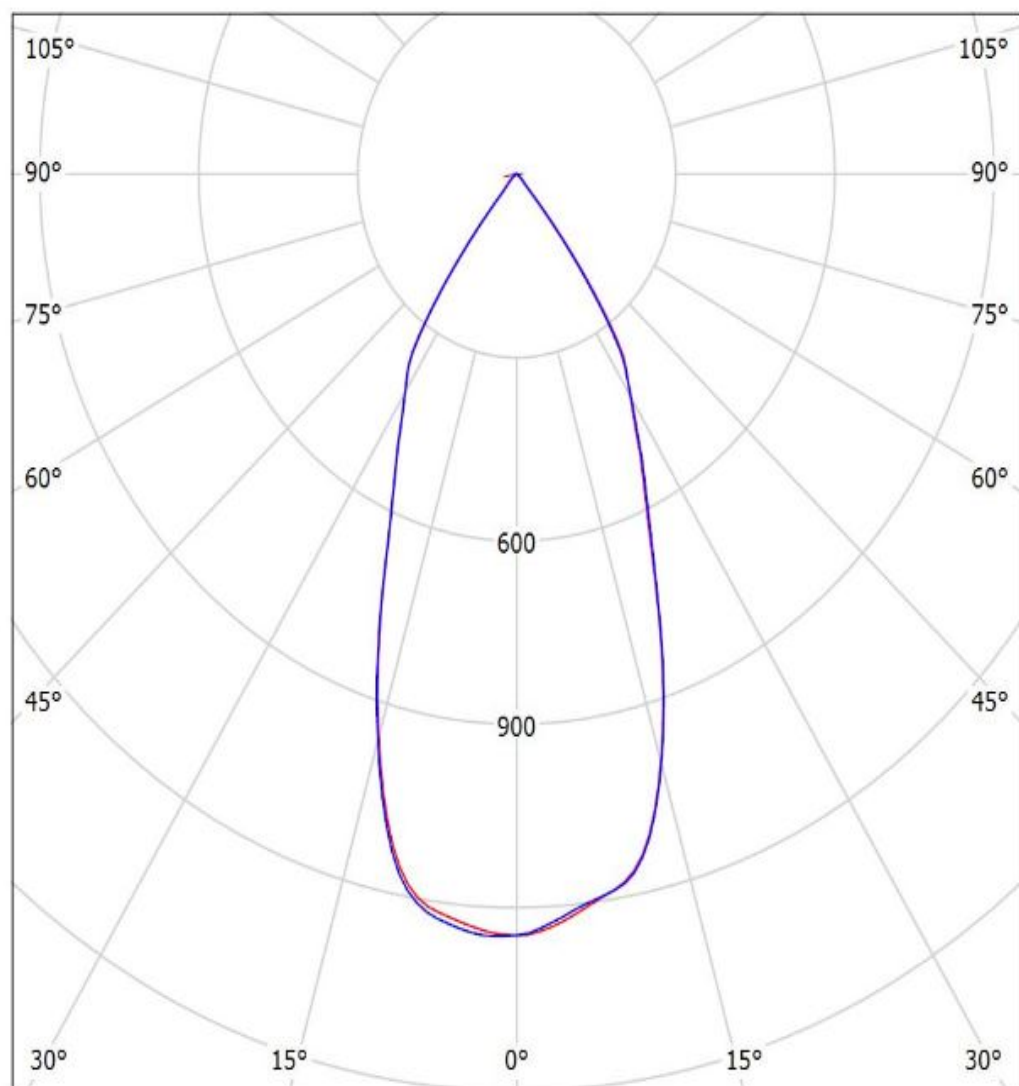
cd/klm

— C0 - C180 — C90 - C270

$\eta = 88\%$

Luminaire: Ledil F14533\_ANGELETTE-M\_(SLM\_1208\_L15\_G6+TE)

Lamps: 1 x Fortimo\_SLM\_1208\_L15\_G6\_Standard\_(+OPTIC\_CLIP\_Z50\_TYPE1\_2213194-1)\_1142.78lm@250mA\_P=8.26875W\_l=0.25A



cd/klm

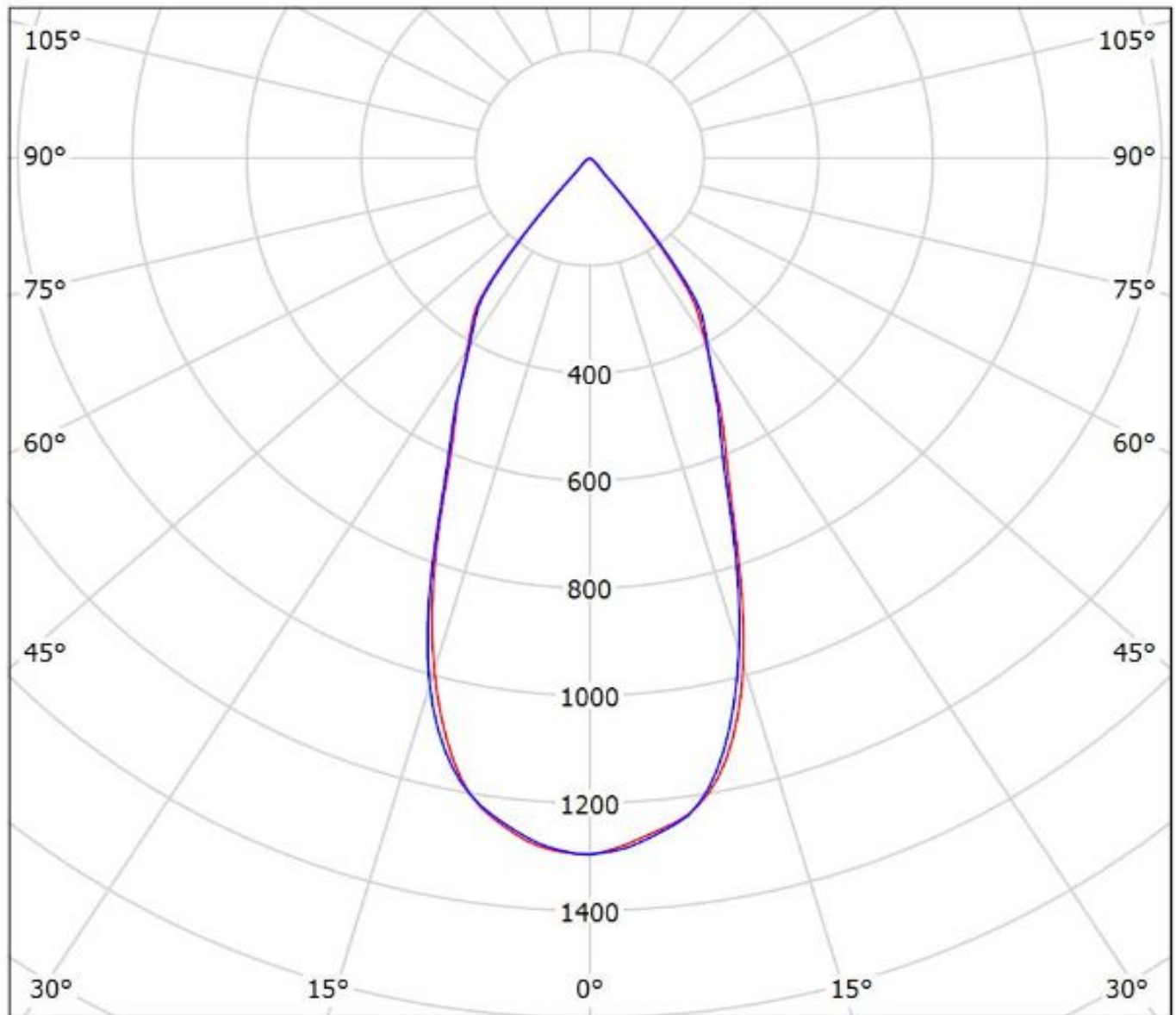
— C0 - C180 — C90 - C270

$\eta = 87\%$



Luminaire: Ledil F14533\_ANGELETTE-M\_(LC040C+TE)

Lamps: 1 x Samsung\_LC040C+\_2213382-2+\_2213194-1\_1194.16lm@250mA\_CCT=4000K\_P=8.137W



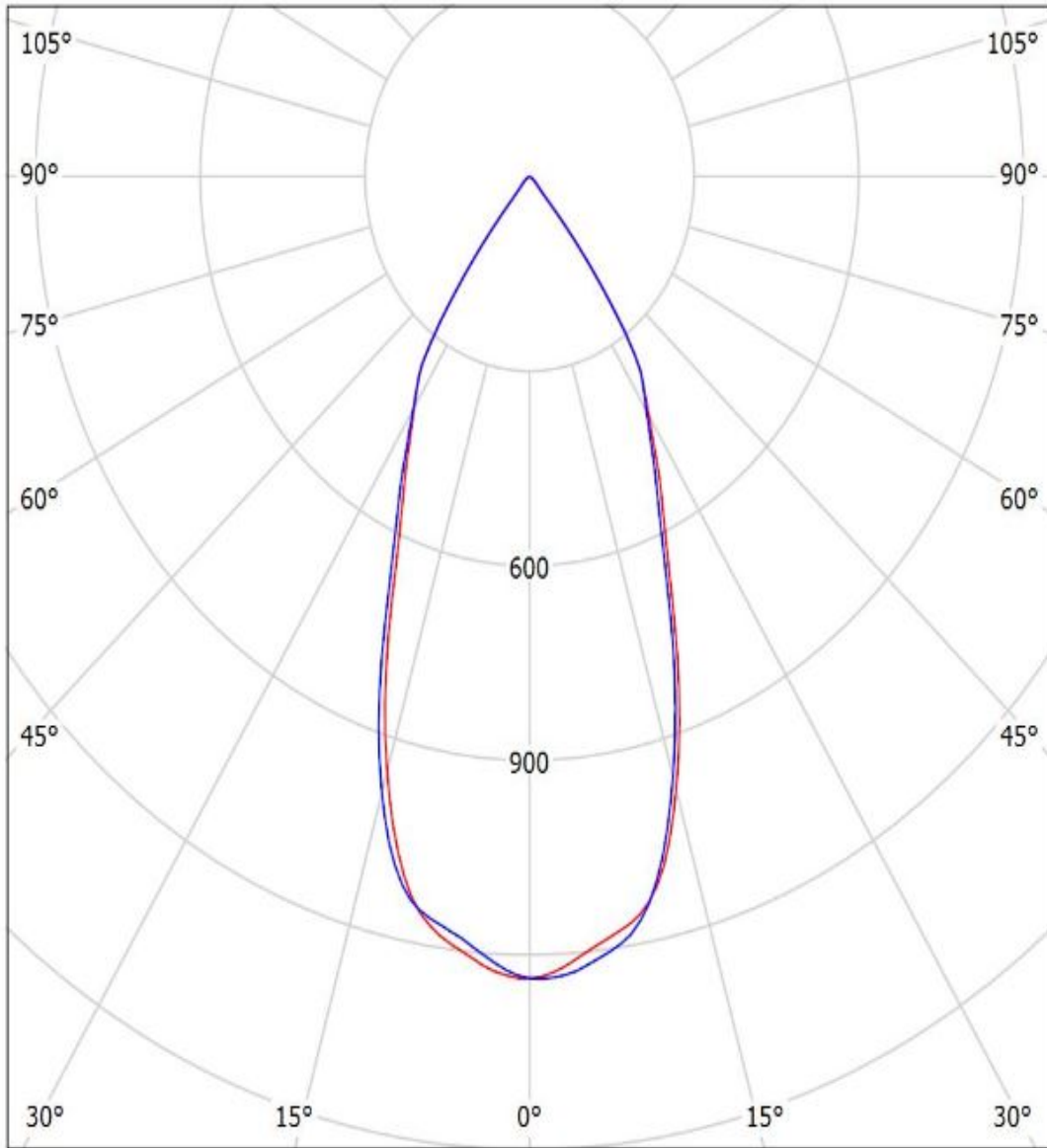
cd/klm

— C0 - C180 — C90 - C270

$\eta = 88\%$

Luminaire: Ledil F14533\_ANGELETTE-M\_(MJT\_30W\_Les14,5)\_TE

Lamps: 1 x Seoul\_MJT\_30W\_Les14,5mm\_(SAWx1566A)\_+TE\_2213254-2\_+TE\_2213194-1\_1328.6lm@250mA\_P=8.24025W\_I=0.25A

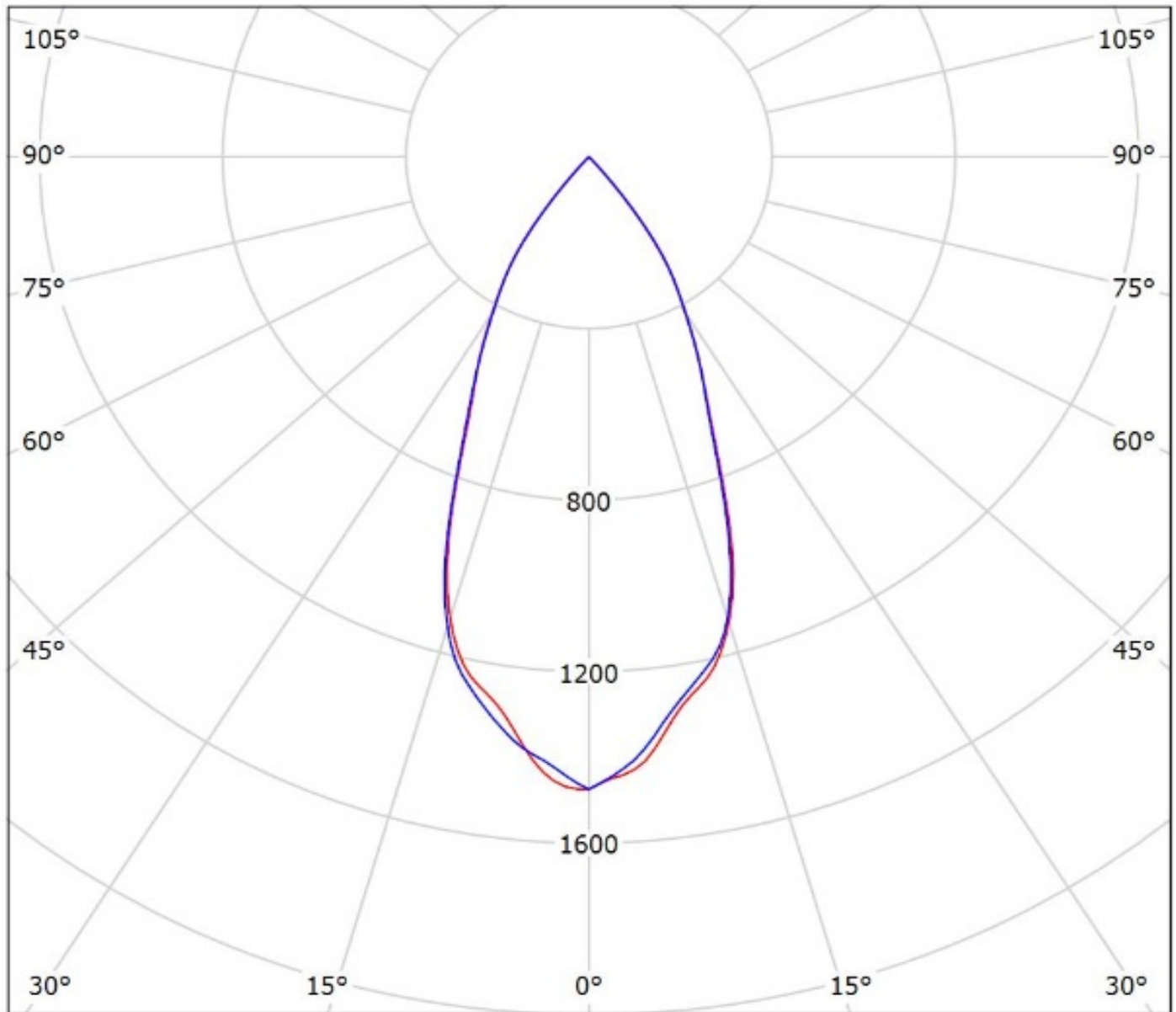


cd/klm

— C0 - C180 — C90 - C270

$\eta = 87\%$

Luminaire: Ledil Oy F14533\_ANGELETTE-M\_(SLE\_G6\_LES15)\_(2213254-2+\_2213194-1)\_SIMULATED  
Lamps: 1 x Tridonic SLE G6 LES15 + Tyco Electronics 2213254-2 + TE 2213194-1 Optic clip

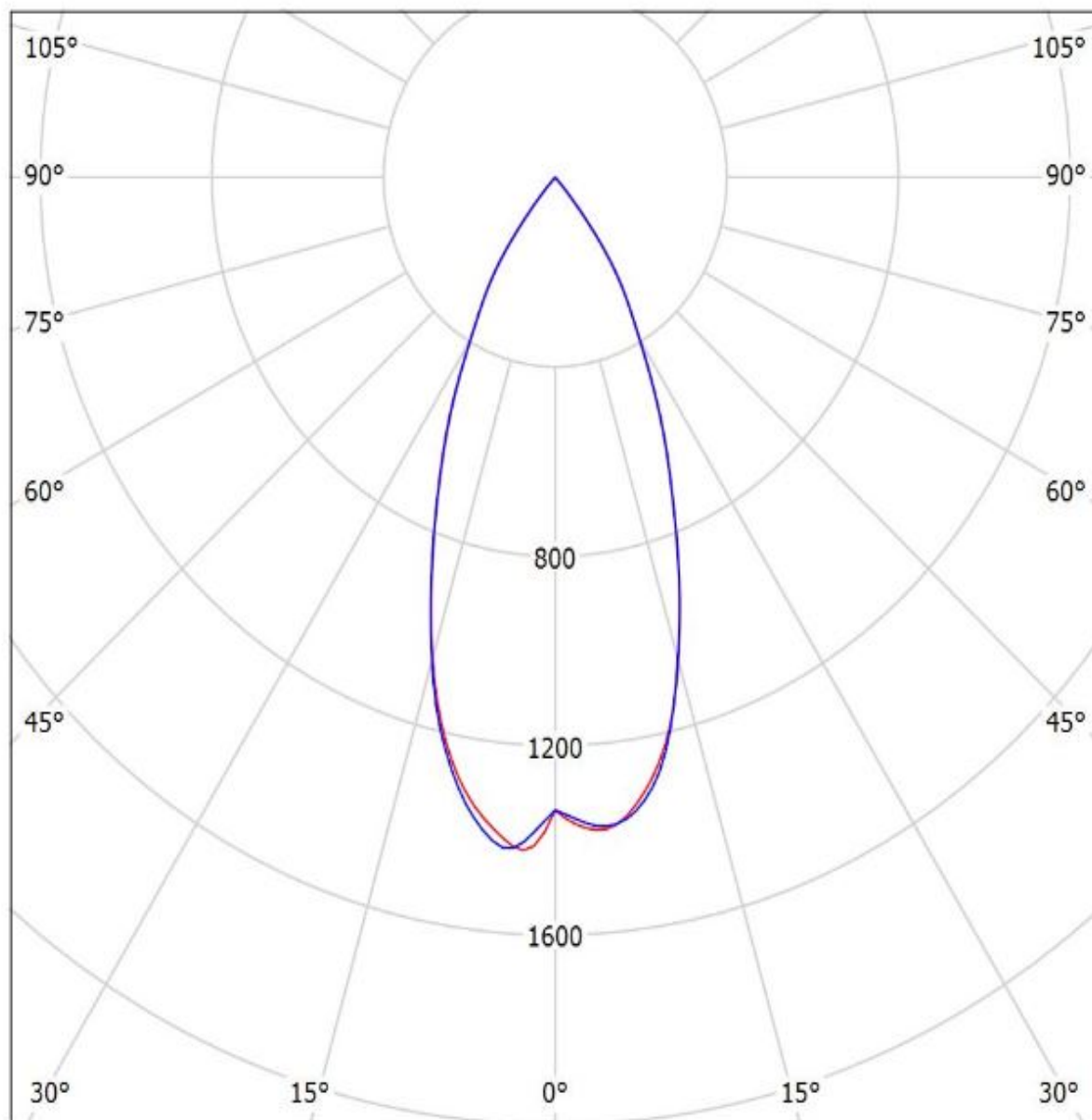


cd/klm

— C0 - C180 — C90 - C270

$\eta = 89\%$

Luminaire: Ledil Oy F14533\_ANGELETTE-M+\_TE\_2213254-2+\_TE\_Z50\_Type1\_TRIDONIC\_SLE\_G6\_LES17\_SIMULATED  
Lamps: 1 x TRIDONIC SLE G6 LES17



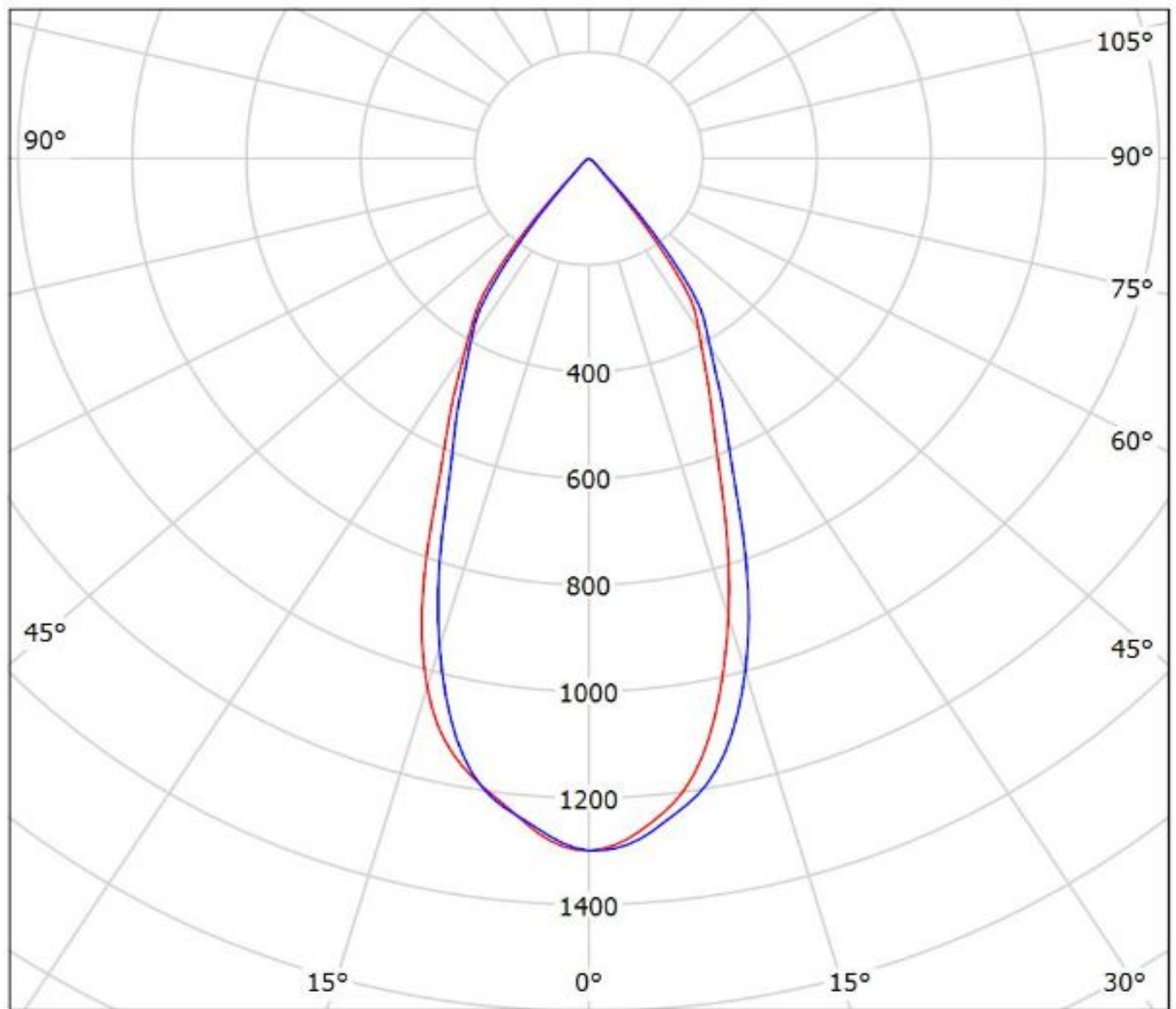
cd/klm

— C0 - C180 — C90 - C270

η = 86%

Luminaire: Ledil F14533\_ANGELETTE-M (WU-M-484+TE)

Lamps: 1 x Vossloh\_Schwabe\_WU-M-484-830\_681.21lm@250mA\_P=5.6195W\_I=0.25A



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.