

DETAILS

Product Number	F13381_ANGELA-W
Family	ANGELA
Type	Reflector
Color	metal
Diameter	119,5 mm
Height	74,5 mm
Style	round
Optic Material	PC
Holder Material	
Fastening	
Status	production ready
ROHS Compliant	Yes
Date Updated	6/03/2017



OPTICAL PROPERTIES

LED	Viewing Angle	Light Beam	Efficiency	cd/lm	Connector
V13 Gen7	34 deg	Wide	83 %	1.600	TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1
V22 Gen7	sim: 34	Wide	sim: 93 %	sim: 2.260	IDEAL: 50-2204-CT + 50-2100AN
V13 Gen7	sim: 32	Wide	sim: 89 %	sim: 2.500	IDEAL: 50-2103CT + 50-2100AN
CLL03x/CLU03x	30 deg	Wide	83 %	1.800	IDEAL: 50-2103CT + 50-2100AN
CLU720/721	29 deg	Wide	85 %	1.800	IDEAL: 50-2103CT + 50-2100AN
CLU720/721	32 deg	Wide	85 %	1.700	TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1
CXA/B 3590	44 deg	Wide	84 %	1.260	IDEAL: 50-2303CR + 50-2300AN
CXA/B 1830	sim: 35	Wide	sim: 87 %	sim: 2.200	TE: 2213401-2 + OPTIC CLIP Z50 TYPE1 2213194-1
LUXEON CoB 1204/1205	33 deg	Wide	84 %	1.680	TE: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1
LUXEON CoB 1208	34 deg	Wide	84 %	1.660	TE: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1
LUXEON CoB 1208	34 deg	Wide	82 %	1.600	IDEAL: 50-2100SH + 50-2100AN
LUXEON CoB 1211	37 deg	Wide	82 %	1.500	IDEAL: 50-2204-CT + 50-2100AN
CXM-14	34 deg	Wide	84 %	1.660	TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1
COB L-Type (LES 11)	35 deg	Wide	85 %	1.610	Molex: 180580-0005
COB L-Type (LES 11)	28 deg	Wide	87 %	2.300	TE: 2213382-2 + OPTIC CLIP Z50 TYPE1 2213194-1
COB J-Type	33 deg	Wide	82 %	1.790	IDEAL: 50-2103NC + 50-2100AN
PrevaLED Core Z3 LES9	28 deg	Wide	84 %	1.960	TE: OPTIC CLIP Z50 TYPE1 2213194-1
PrevaLED Core Z3 LES19	33 deg	Wide	83 %	1.650	TE: OPTIC CLIP Z50 TYPE1 2213194-1
PrevaLED Core Z3 LES23	38 deg	Wide	85 %	1.500	TE: OPTIC CLIP Z50 TYPE1 2213194-1
Soleriq S13	33 deg	Wide	85 %	1.800	TE: 2213401-2 + OPTIC CLIP Z50 TYPE1 2213194-1
Soleriq S19	35 deg	Wide	84 %	1.610	TE: 2213407-2 + OPTIC CLIP Z50 TYPE1 2213194-1
PrevaLED Core AC (LEP-800)	29 deg	Wide	84 %	1.880	TE: OPTIC CLIP Z50 TYPE1 2213194-1
PrevaLED Core AC (LEP-2000)	34 deg	Wide	84 %	1.670	TE: OPTIC CLIP Z50 TYPE1 2213194-1
PrevaLED Core Z4 LES19	34 deg	Wide	84 %	1.700	TE: OPTIC CLIP Z50 TYPE1 2213194-1
Soleriq P13	33 deg	Wide	84 %	1.660	TE: 2213401-2 + OPTIC CLIP Z50 TYPE1 2213194-1

OPTICAL PROPERTIES

LED	Viewing Angle	Light Beam	Efficiency	cd/lm	Connector
Soleriq S15	sim: 36	Wide	sim: 89 %	sim: 1.954	TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1
Fortimo LED SLM L9 G4 standard	30 deg	Wide	84 %	1.800	TE: OPTIC CLIP Z50 TYPE1 2213194-1
Fortimo LED SLM L13 G4 standard	32 deg	Wide	84 %	1.700	TE: OPTIC CLIP Z50 TYPE1 2213194-1
Fortimo LED SLM L15 G4 standard	34 deg	Wide	84 %	1.600	TE: OPTIC CLIP Z50 TYPE1 2213194-1
Fortimo LED SLM L19 G4 standard	37 deg	Wide	83 %	1.500	TE: OPTIC CLIP Z50 TYPE1 2213194-1
Fortimo SLM G5 LES 9 Standard	30 deg	Wide	83 %	1.800	TE: OPTIC CLIP Z50 TYPE1 2213194-1
Fortimo SLM G5 LES 9 Standard	30 deg	Wide	83 %	1.800	TE: OPTIC CLIP Z50 TYPE1 2213194-1
Fortimo SLM G5 LES 15 Standard	34 deg	Wide	81 %	1.560	TE: OPTIC CLIP Z50 TYPE1 2213194-1
Fortimo SLM G5 LES 19 Standard	37 deg	Wide	80 %	1.430	TE: OPTIC CLIP Z50 TYPE1 2213194-1
Fortimo SLM G5 LES 13 Standard	33 deg	Wide	82 %	1.700	TE: OPTIC CLIP Z50 TYPE1 2213194-1
Fortimo SLM 1211 L19 G6 Standard	37 deg	Wide	82 %	1.500	TE: OPTIC CLIP Z50 TYPE1 2213194-1
LC026B/LC040B	36 deg	Wide	84 %	1.500	TE: 2213258-2 + OPTIC CLIP Z50 TYPE1 2213194-1
LC040C	33 deg	Wide	82 %	1.600	TE: 2213382-2 + OPTIC CLIP Z50 TYPE1 2213194-1
MJT COB LES 14.5	37 deg	Wide	82 %	1.500	TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1
STARK SLE G3 LES19	36 deg	Wide	84 %	1.560	TE: OPTIC CLIP Z50 TYPE1 2213194-1
STARK SLE G3 LES23	39 deg	Wide	84 %	1.440	TE: OPTIC CLIP Z50 TYPE1 2213194-1
SLE G4 LES23 H	38 deg	Wide	84 %	1.500	TE: OPTIC CLIP Z50 TYPE1 2213194-1
SLE G4 LES19 H	32 deg	Wide	82 %	1.700	TE: OPTIC CLIP Z50 TYPE1 2213194-1
SLE G5 LES15	34 deg	Wide	83 %	1.630	TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1
SLE G5 LES19 H	36 deg	Wide	80 %	1.500	TE: OPTIC CLIP Z50 TYPE1 2213194-1
SLE G5 LES23 H	39 deg	Wide	83 %	1.440	TE: OPTIC CLIP Z50 TYPE1 2213194-1
SLE G6 LES15	sim: 35	Wide	sim: 88 %	sim: 2.200	TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1
SLE G6 LES17	sim: 36	Wide	sim: 90 %	sim: 2.190	TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1
WU-M-461	37 deg	Wide	84 %	1.600	TE: OPTIC CLIP Z50 TYPE1 2213194-1
WU-M-462	41 deg	Wide	83 %	1.440	TE: OPTIC CLIP Z50 TYPE1 2213194-1
WU-M-464	41 deg	Wide	83 %	1.440	TE: OPTIC CLIP Z50 TYPE1 2213194-1
WU-M-484	35 deg	Wide	83 %	1.570	TE: OPTIC CLIP Z50 TYPE1 2213194-1
WU-M-485	39 deg	Wide	83 %	1.430	TE: OPTIC CLIP Z50 TYPE1 2213194-1
WU-M-486	39 deg	Wide	83 %	1.430	TE: OPTIC CLIP Z50 TYPE1 2213194-1

D

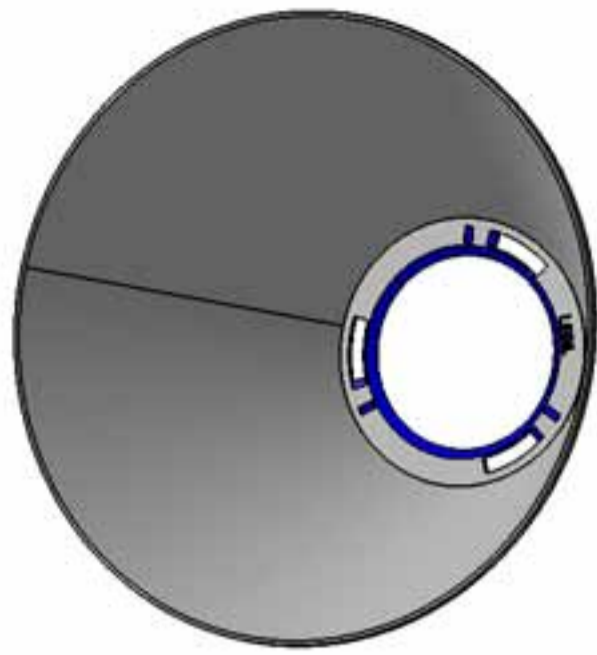
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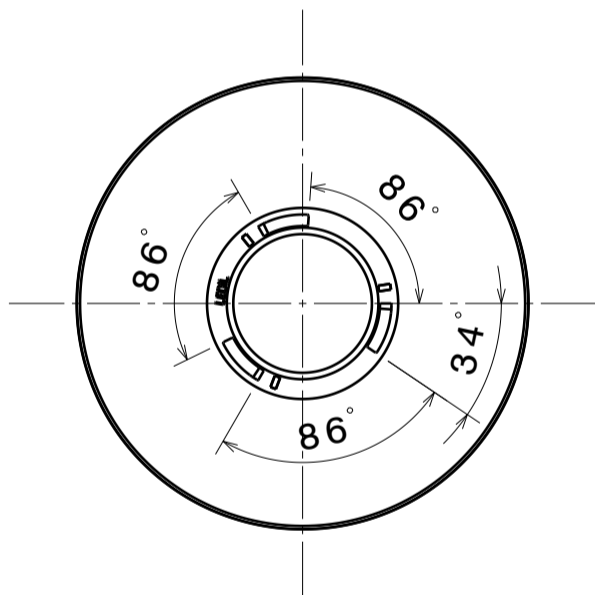
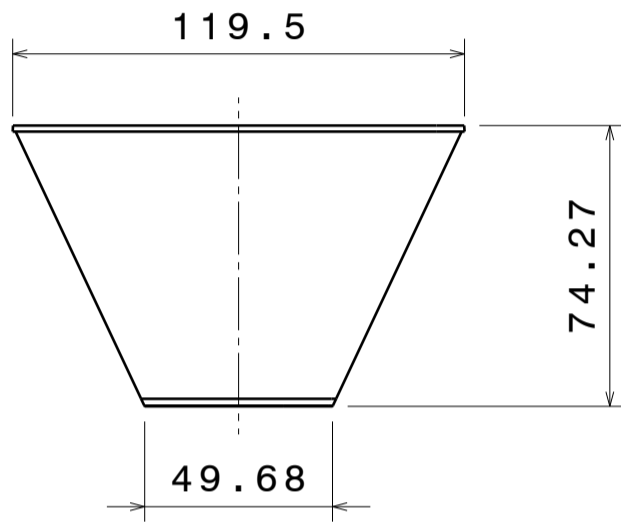
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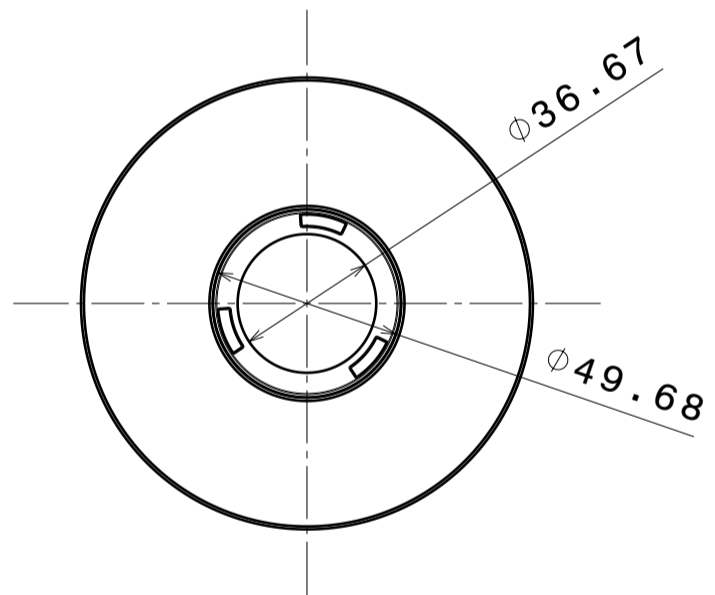
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ISOMETRIC VIEW



TOP VIEW



BOTTOM VIEW

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

THIRD ANGLE PROJECTION:

This drawing is the property
of LEDiL Oy. It may not be
reproduced, copied or
communicated without a written
agreement with LEDiL Oy."

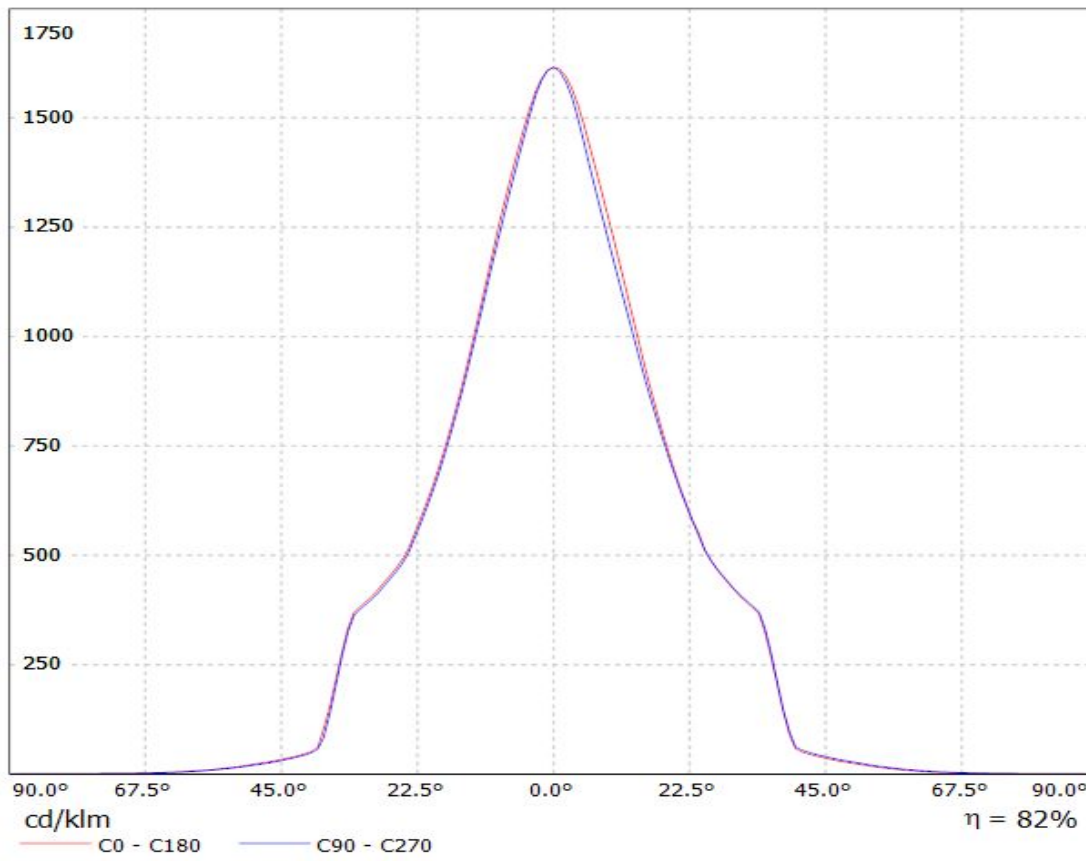
		LediL Oy Salorankatu 10 FIN 24240 SALO Finland	
DRAWING TITLE ANGELA_Datasheet			
SIZE	PART NUMBER		
A3	-		
SCALE	1:1	WEIGHT	-
			SHEET 1/1

D

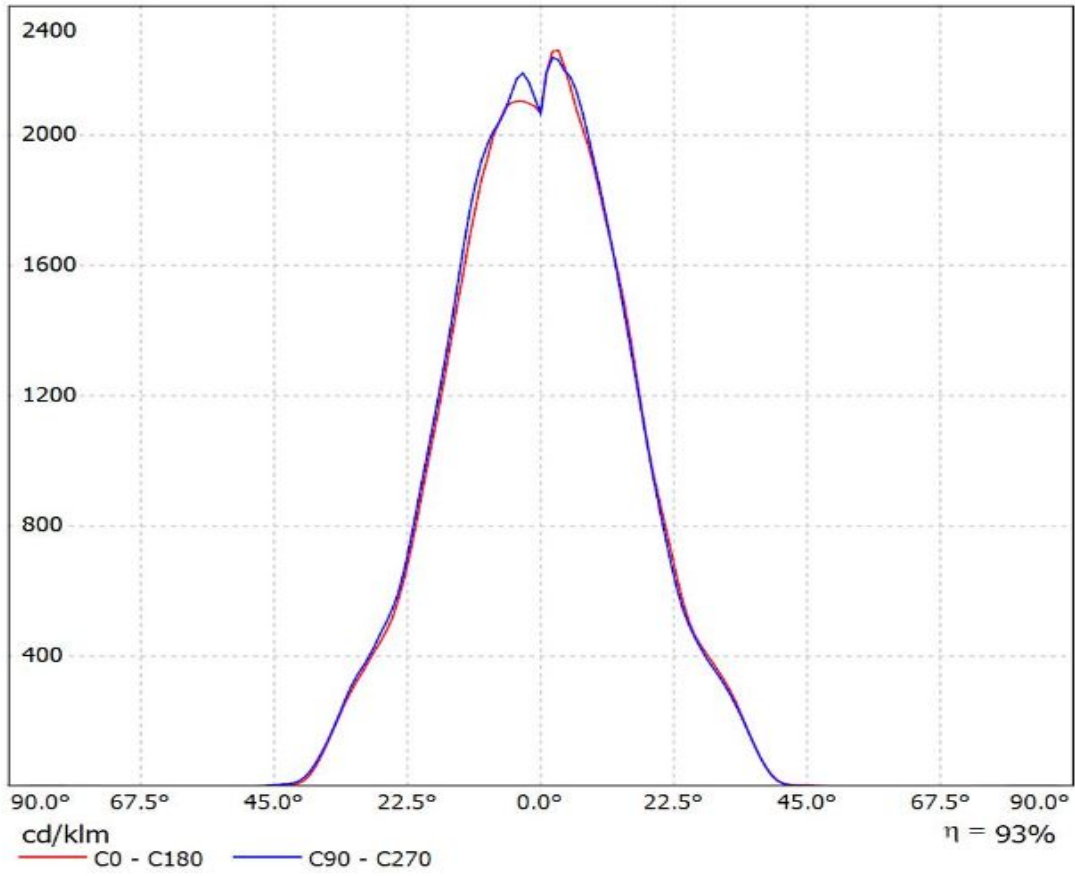
A

Luminaire: LEDiL Oy F13381_ANGELA-W_(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

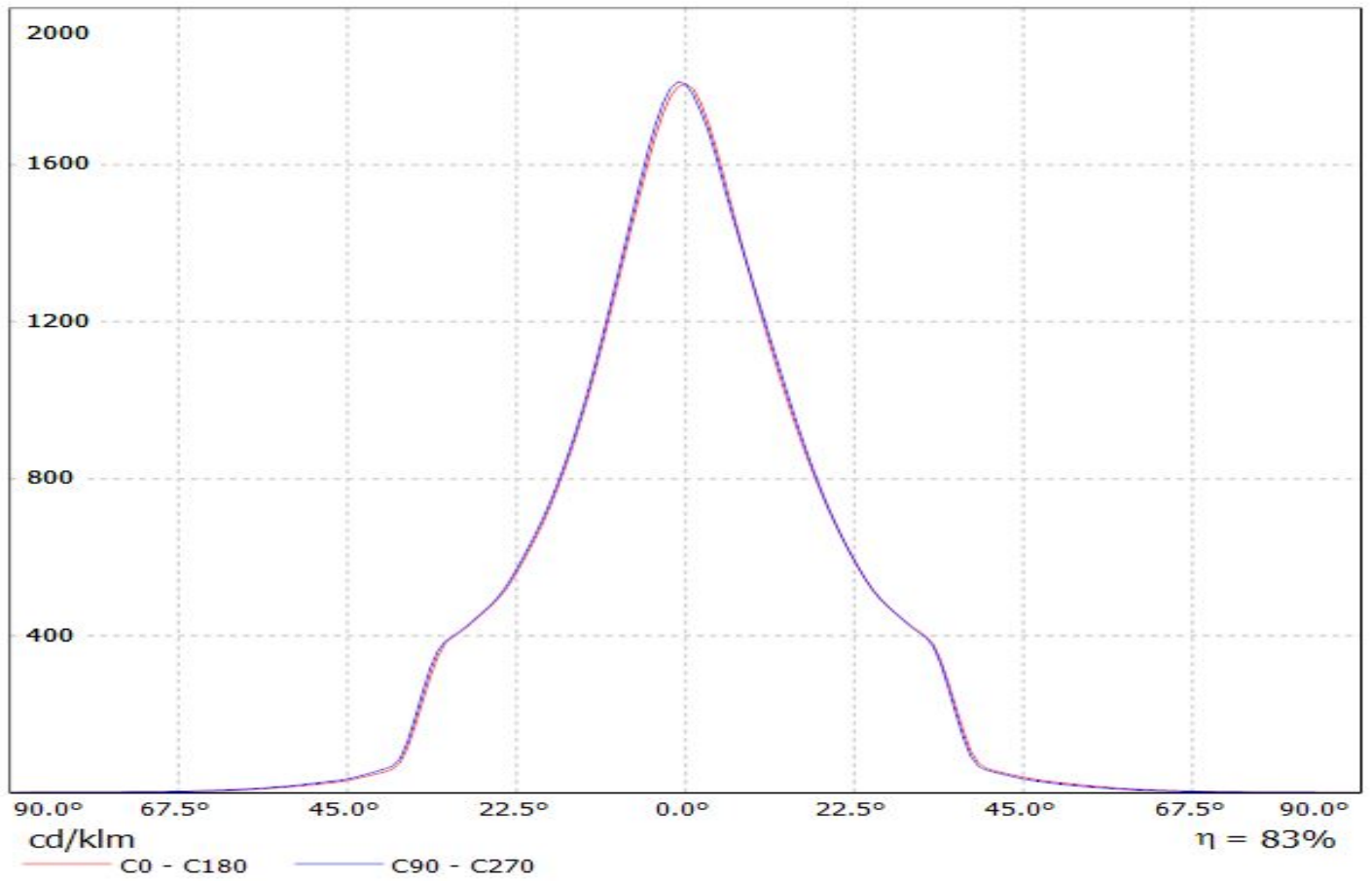


Luminaire: Ledil Oy F13381_ANGELA-W_Bridgelux_V22_Gen7_SIMULATED F13381_ANGELA-W_Bridgelux_V22_Gen7_SIMULATED
Lamps: 1 x F13381_ANGELA-W_Bridgelux_V22_Gen7_SIMULATED

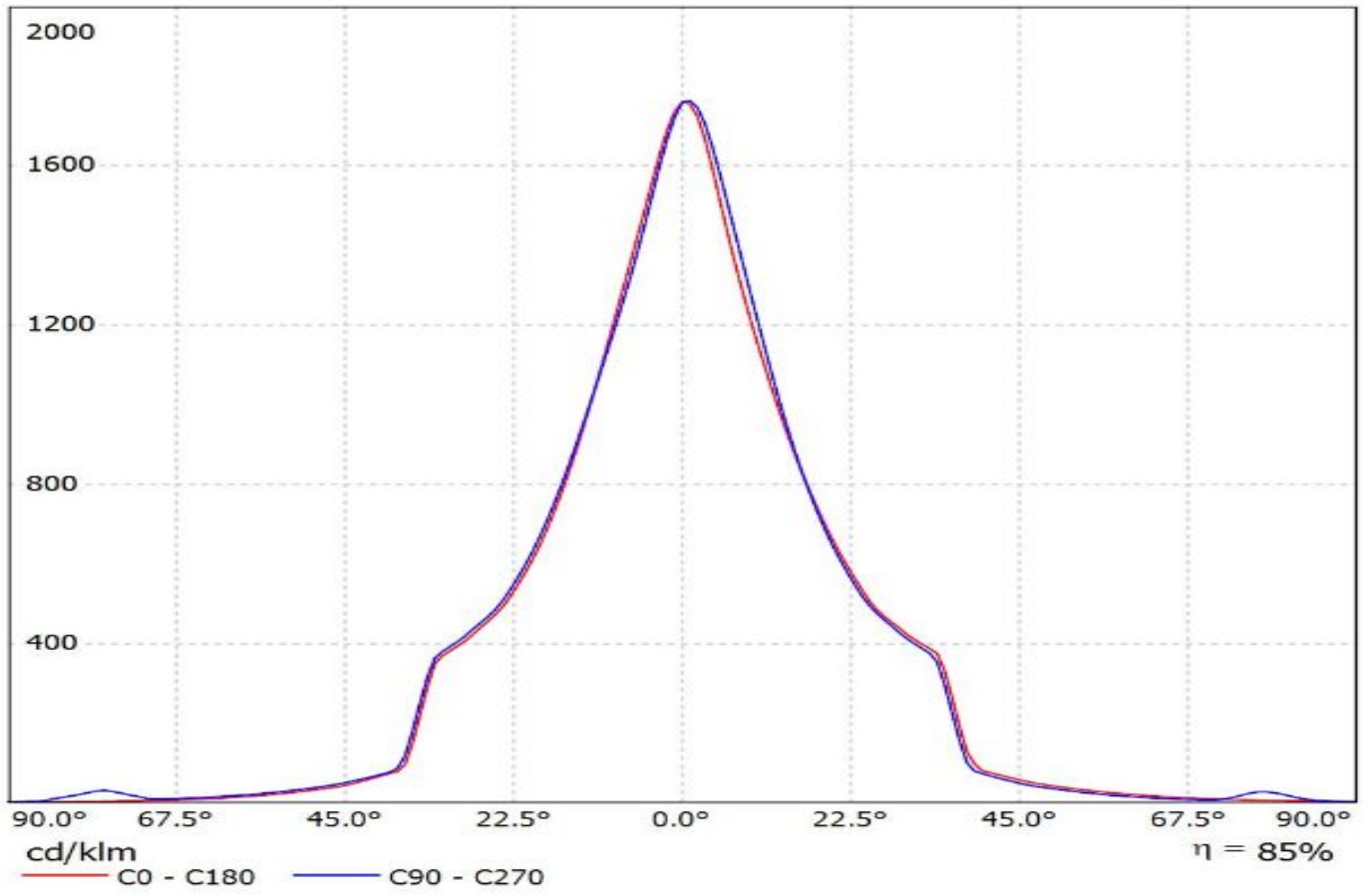


Luminaire: LEDiL Oy F13381_ANGELA-W_(CLL030)

Lamps: 1 x Citizen_CLL030_(CLL030-1206A1-303M1A2)_971.531lm@250mA_P=8.42026W_I=249.8mA

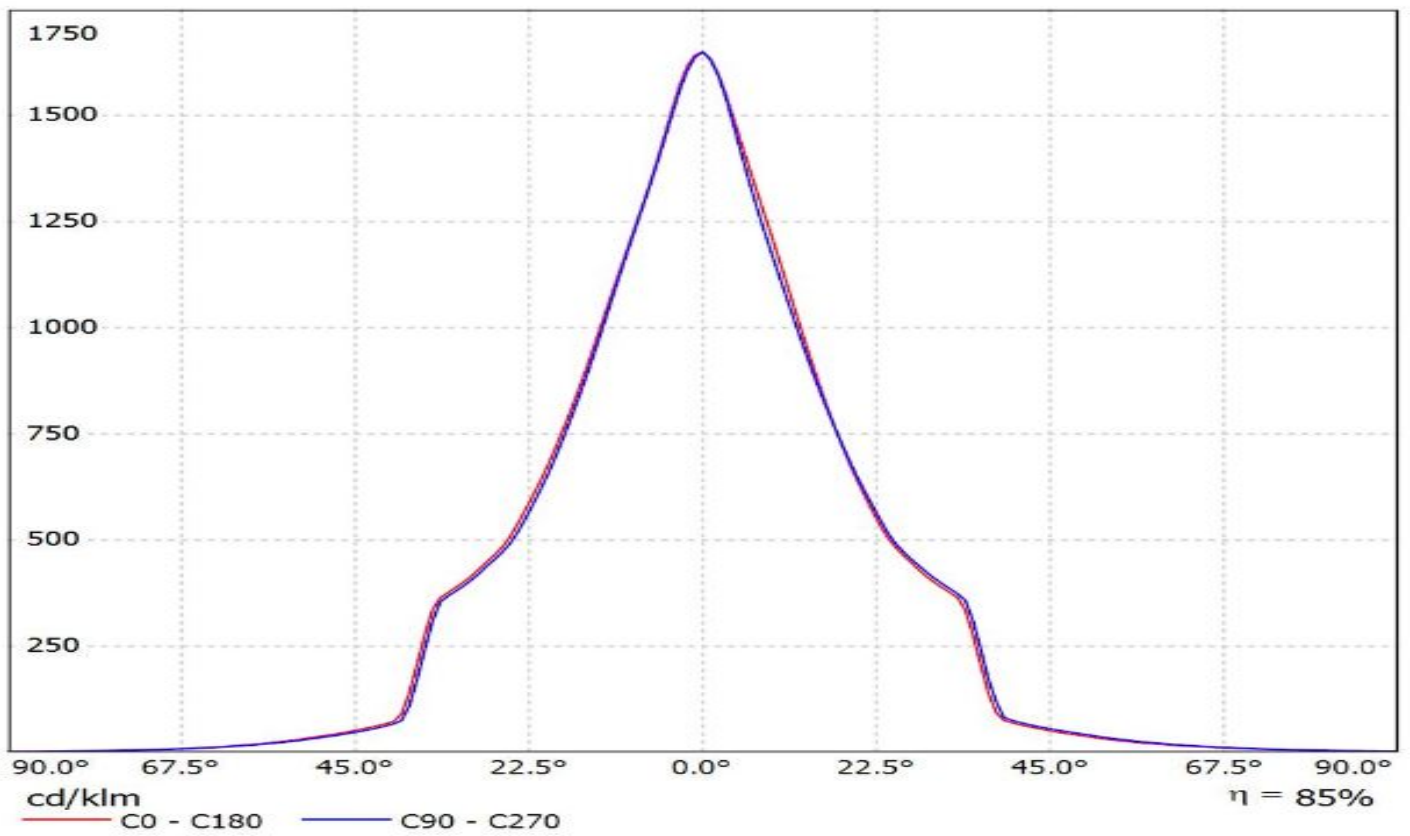


Luminaire: Ledil F13381_ANGELA-W_(CLU720)
Lamps: 1 x CITIZEN_CLU720_(CLU720-1206B8-273M2)
_1337.27lm@250mA_CCT=2700K_P=8.35W_I=0.25A



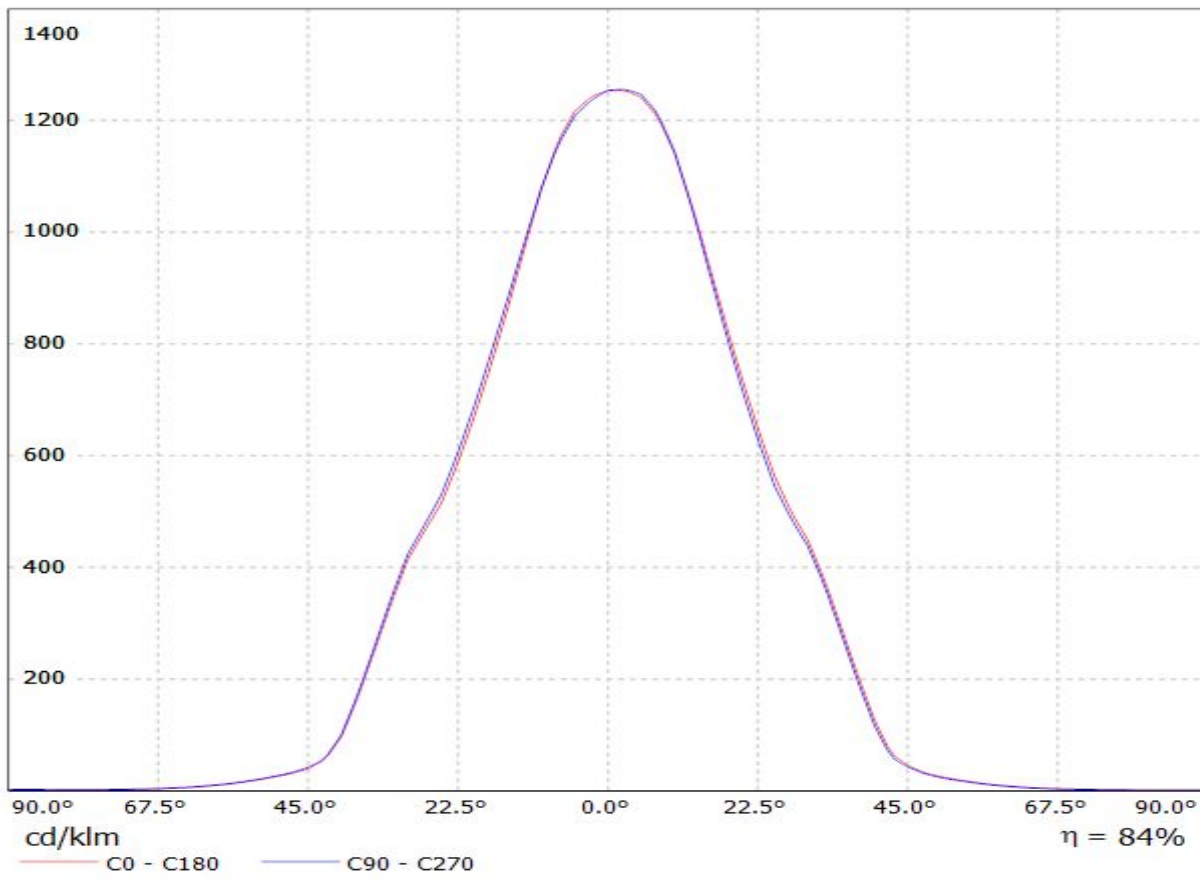
Ledil F13381_ANGELA-W_(CLU720) / LDC (Linear)

Luminaire: Ledil F13381_ANGELA-W_(CLU720)
Lamps: 1 x CITIZEN_CLU720_(CLU720-1206B8-273M2)
_1344.79lm@250mA_CCT=2700K_P=8.35W_I=0.25A

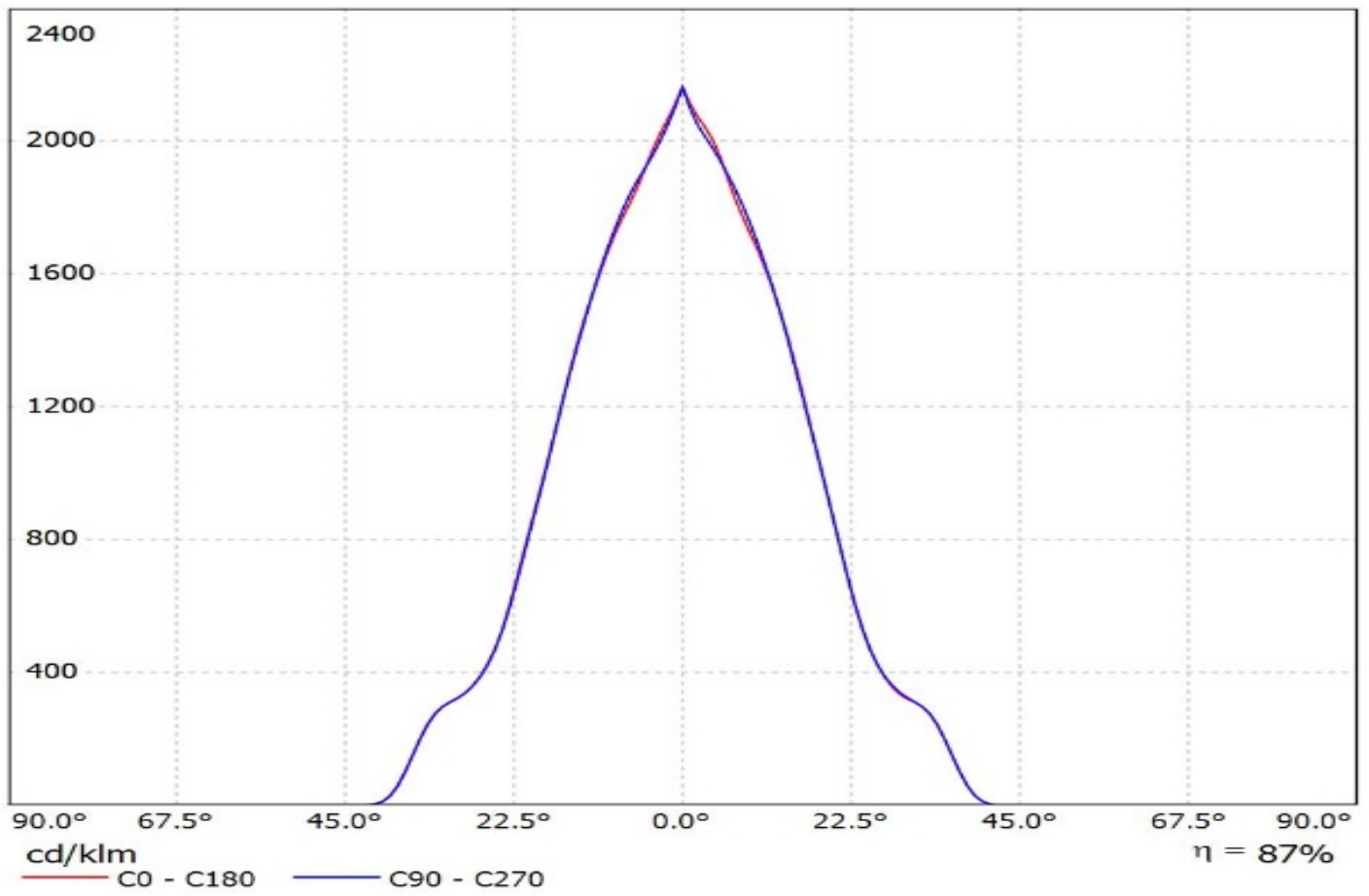


Luminaire: LEDiL Oy F13381_ANGELA-W_(CXA3590)

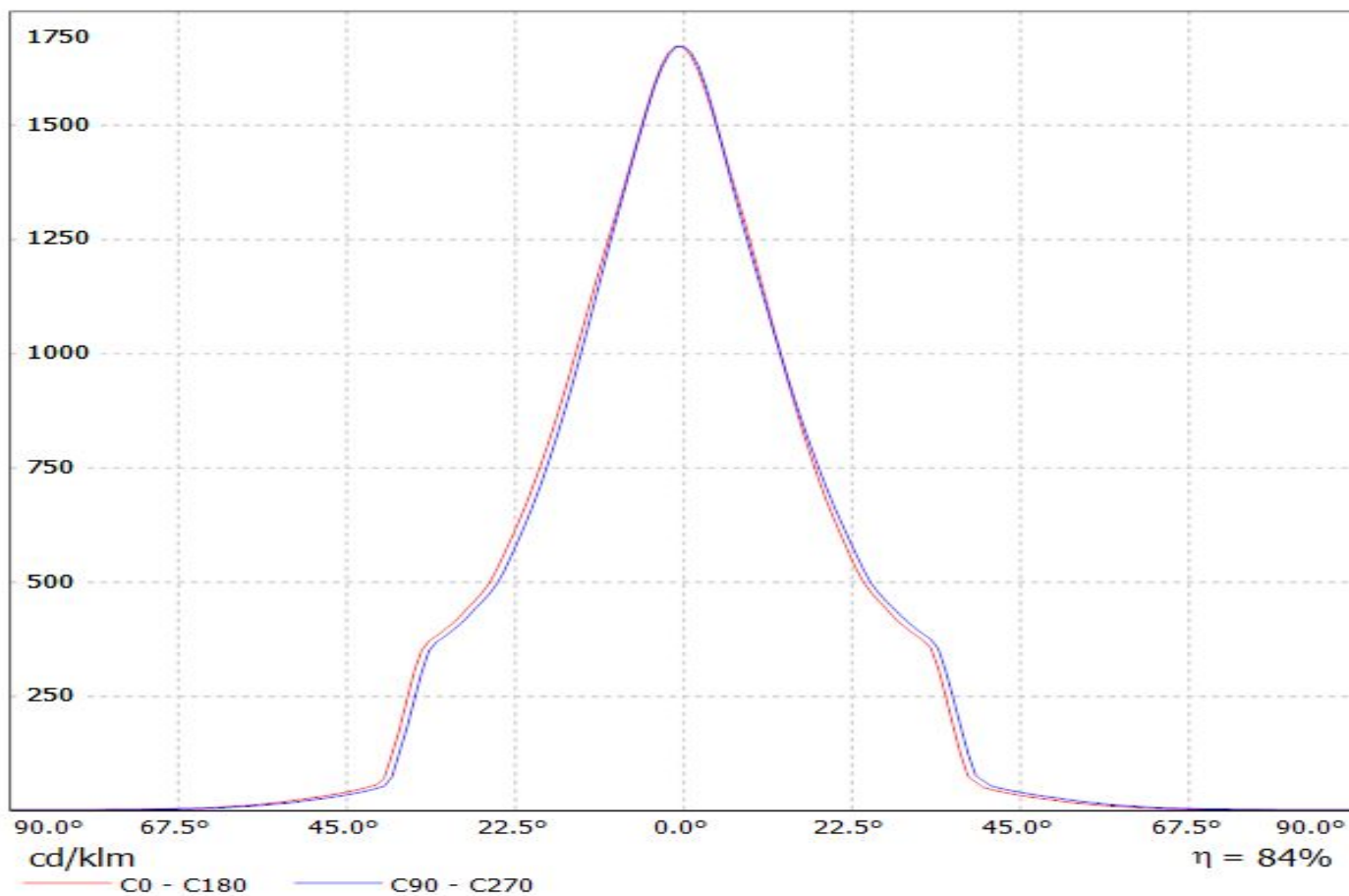
Lamps: 1 x CREE_CXA3590_(CXA3590-30F-BD-R0H-0002)_2640.14lm@250mA_CCT=3000K_P=16.3941W_I=249.8mA



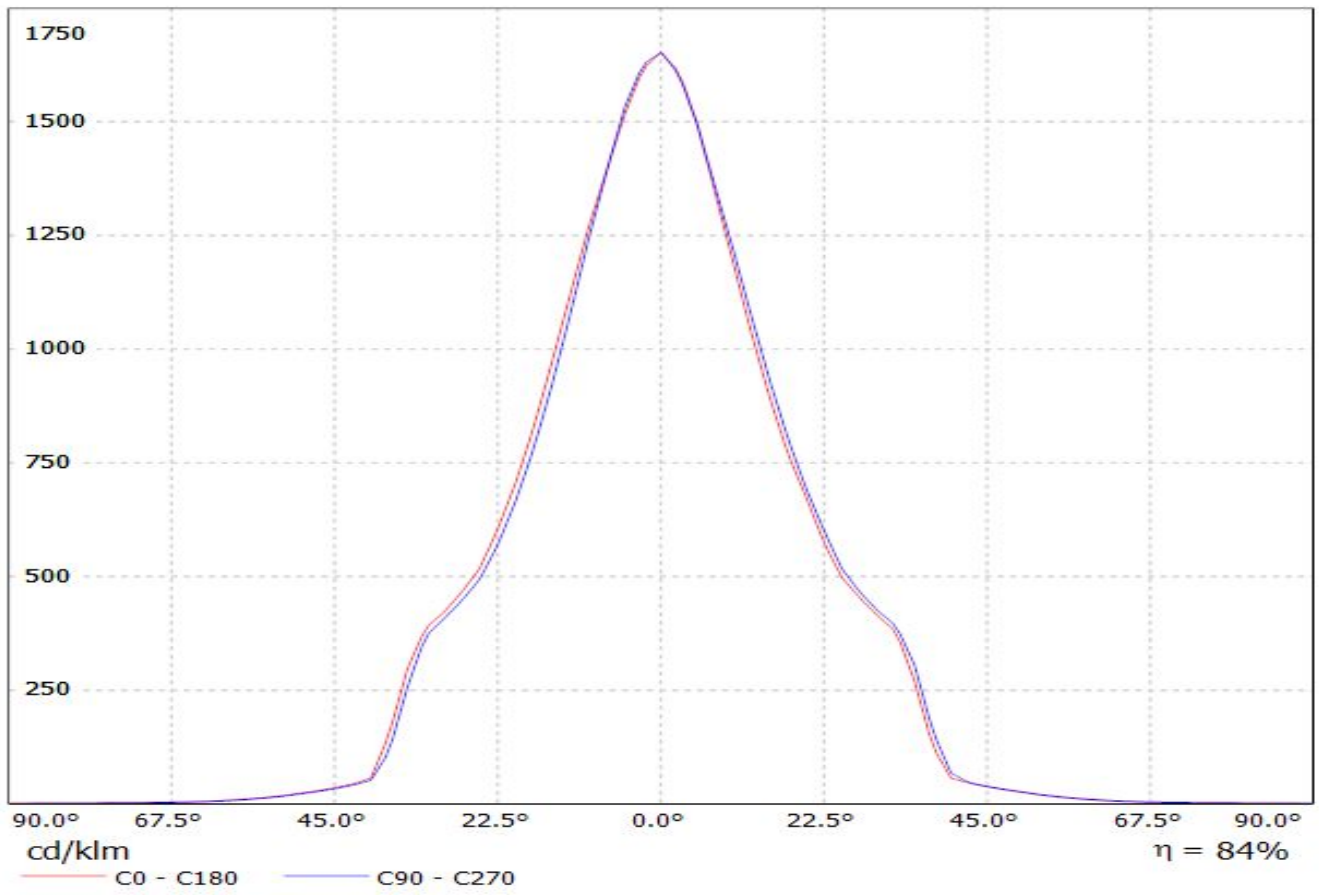
Luminaire: Ledil Oy F13381_ANGELA-W_(CXB1830)_(TE_2213401-2+TE_2213194-1)_SIMULATED
Lamps: 1 x Cree CXB1830 + Tyco Electronics 2213401-2 + TE 2213194-1



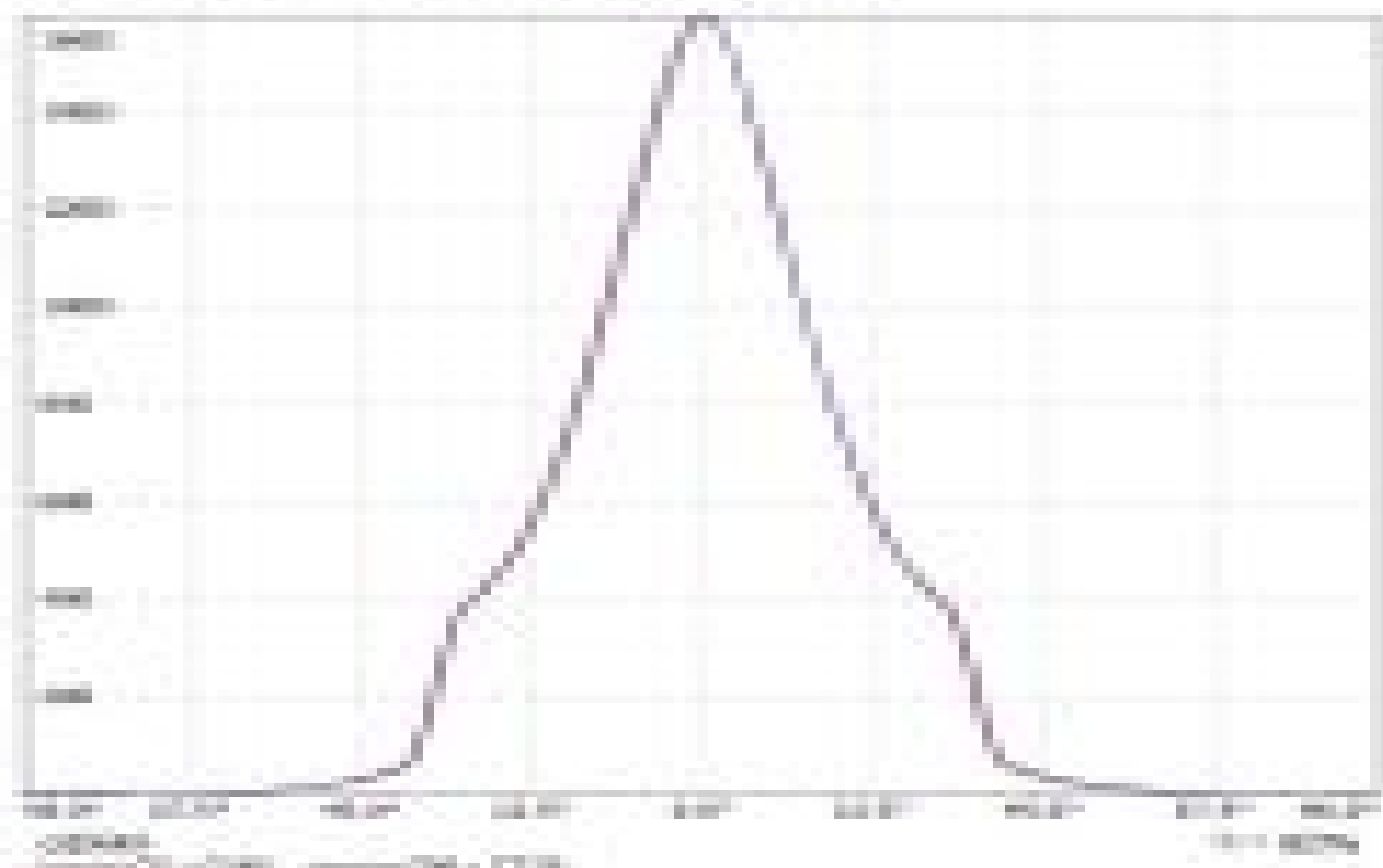
Luminaire: LEDiL Oy F13381_ANGELA-W_(COB_1205) Eff.83.8%
Lamps: 1 x Luxeon_COB_1205_1092.75lm@250mA_P=8.33092W_I=249.9mA



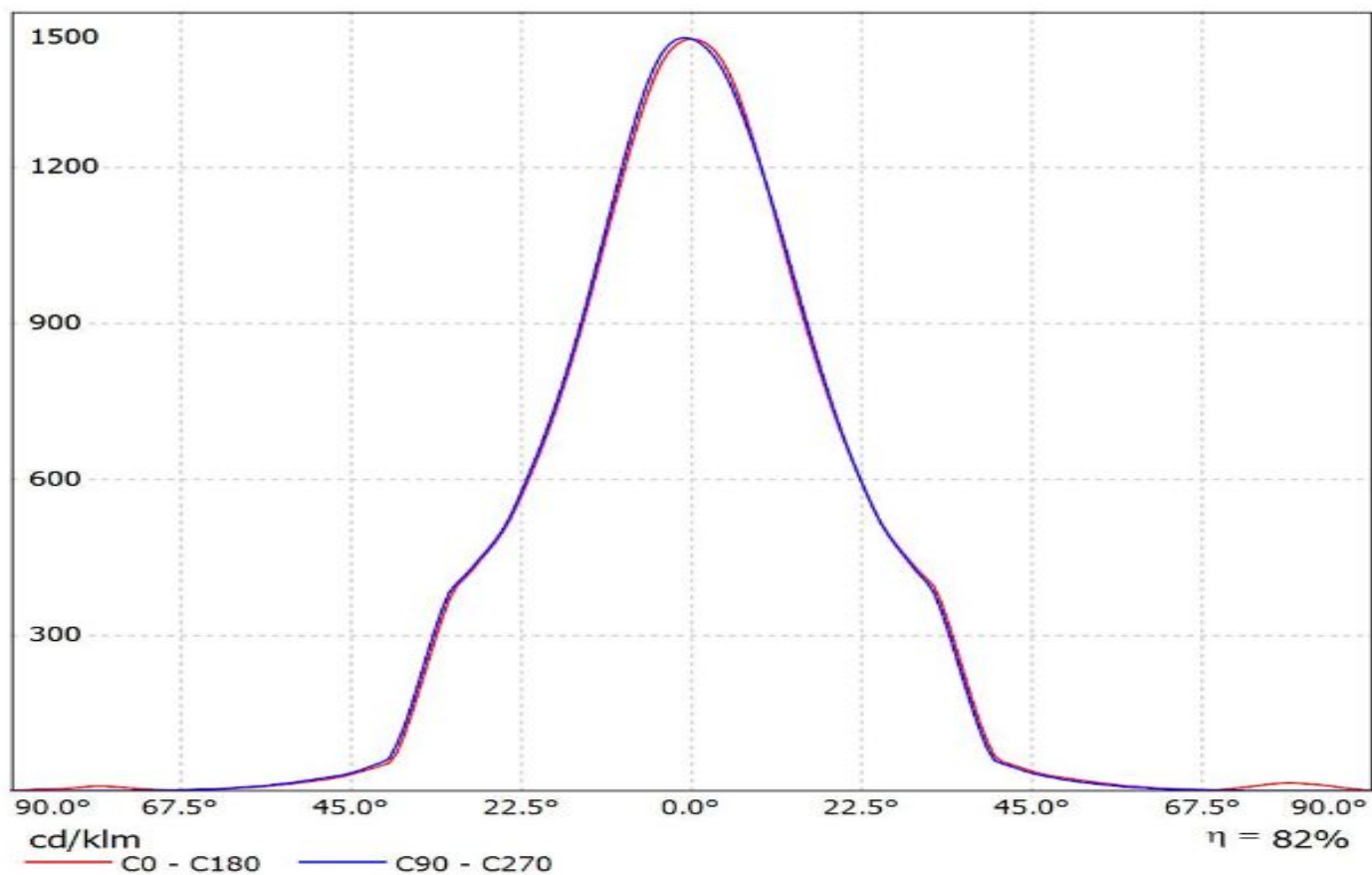
Luminaire: LEDiL Oy F13381_ANGELA-W_(COB_1208) Eff.83.8%
Lamps: 1 x Luxeon_COB_1208_1039.97lm@250mA_P=8.28793W_I=249.9mA



QUESTION: What is the probability that a randomly selected person is between 1.70m and 1.80m tall?

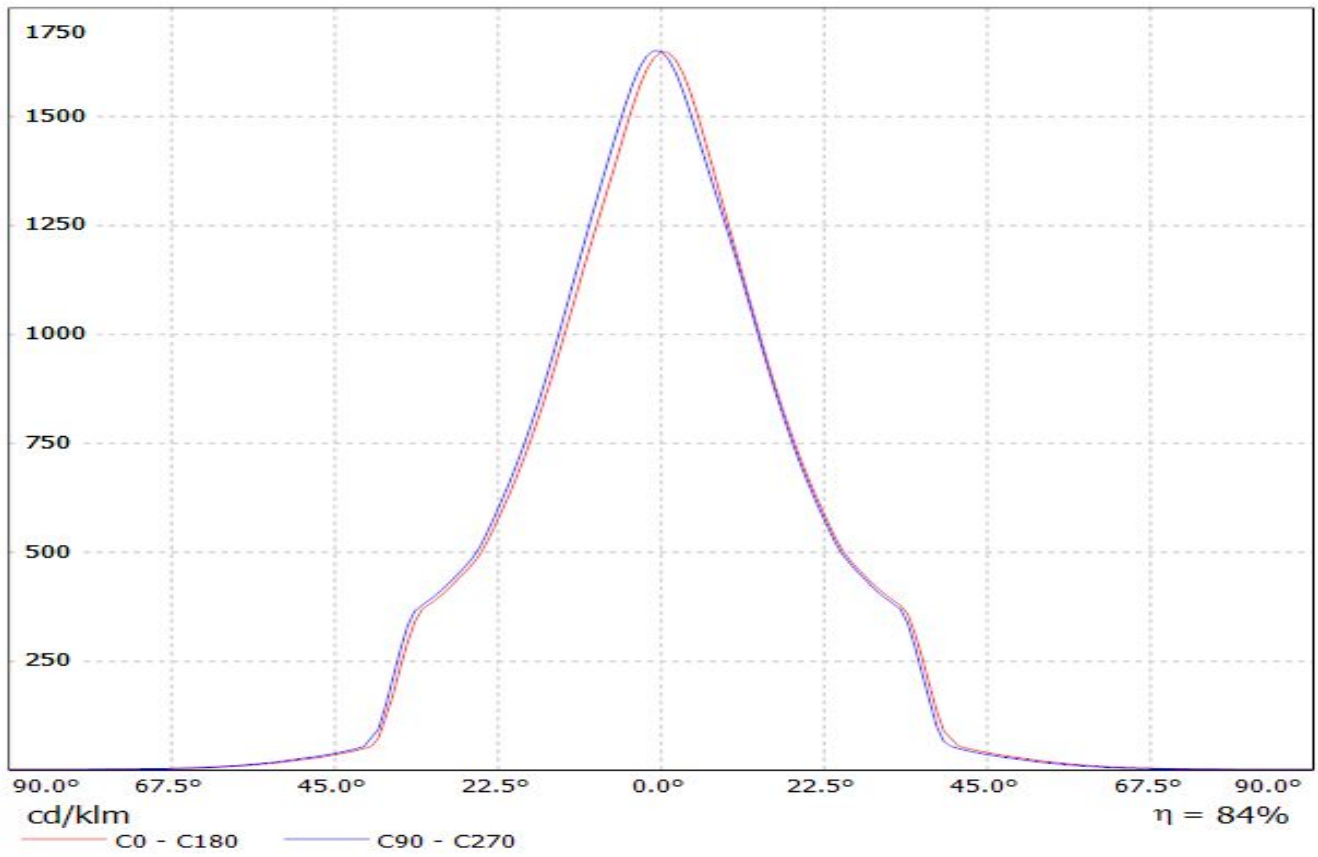


Luminaire: Ledil F13381_ANGELA-W_(CoB1211+IDEAL)
Lamps: 1 x Luxeon_CoB1211_(L2C2-4080)_50-2204CT+50-2100AN_1376.18lm@250mA_P=7.9988W_I=0.25A



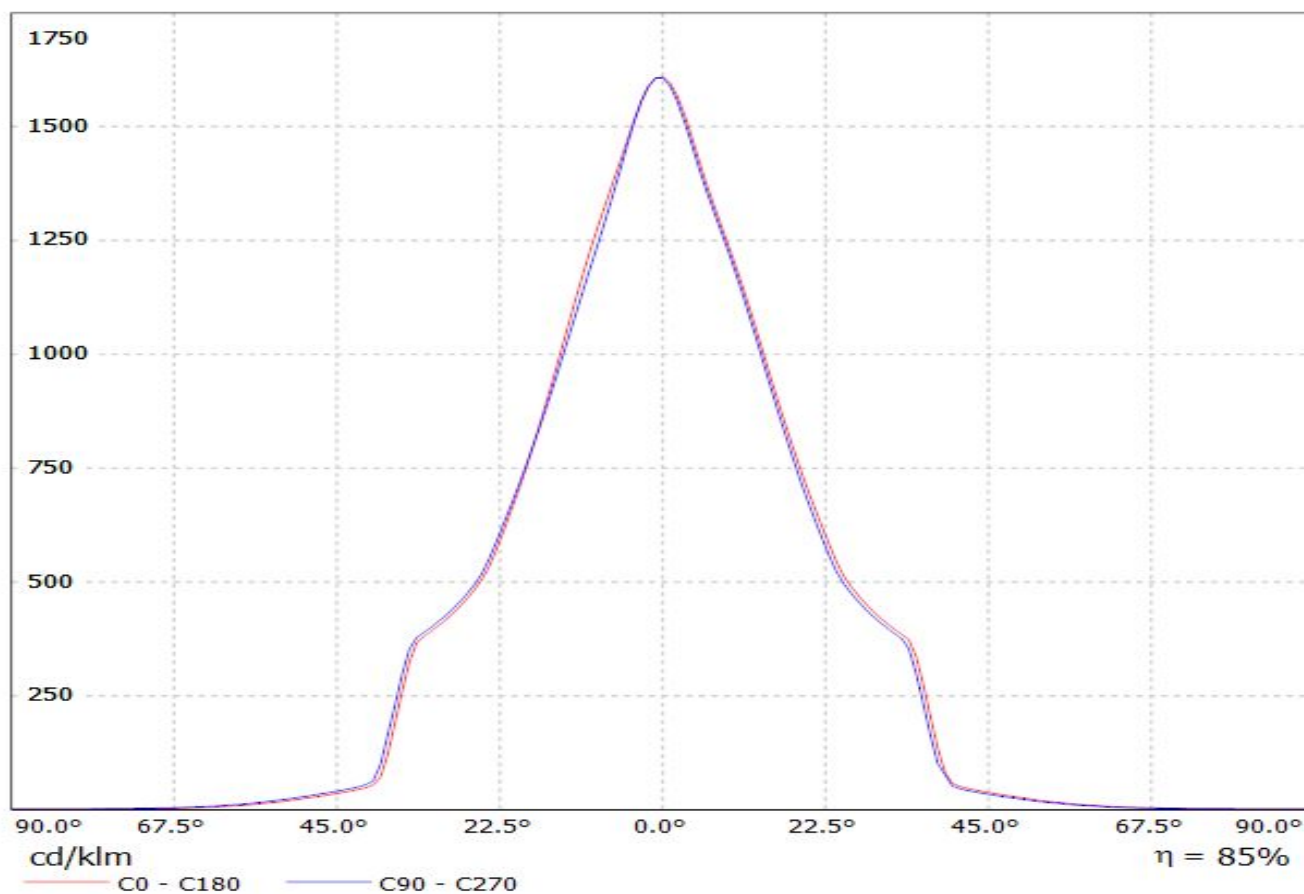
Luminaire: LEDiL Oy F13381_ANGELA-W_(CXM-14)

Lamps: 1 x LUMINUS_CXM-14_1114.36lm@250mA_P=8.36106W_I=249.8mA



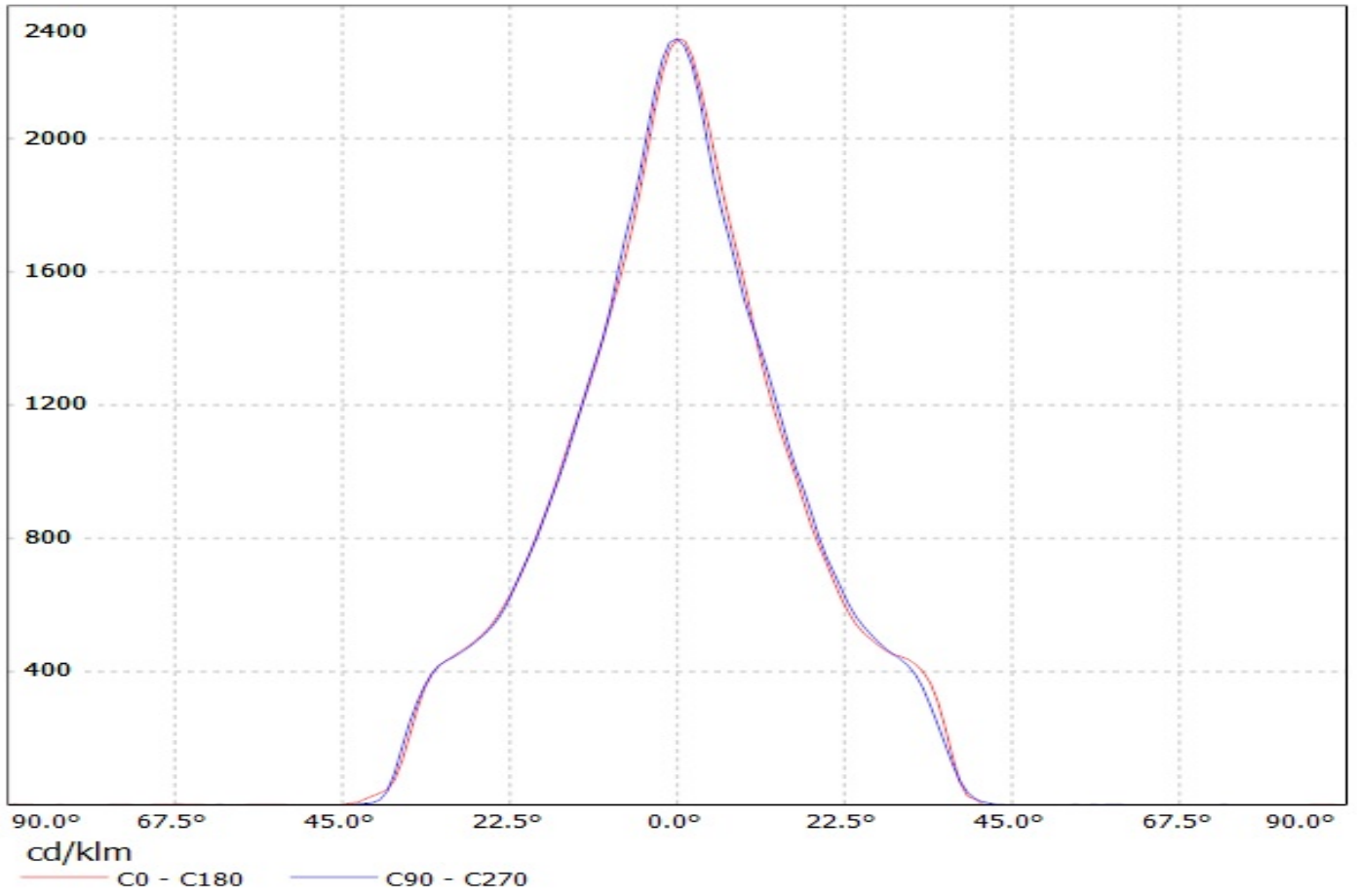
Luminaire: LEDiL Oy F13381_ANGELA-W_(NSBxL121A)

Lamps: 1 x Nichia_NSBxL121A_914.478lm@250mA_P=7.56872W_I=249.9mA



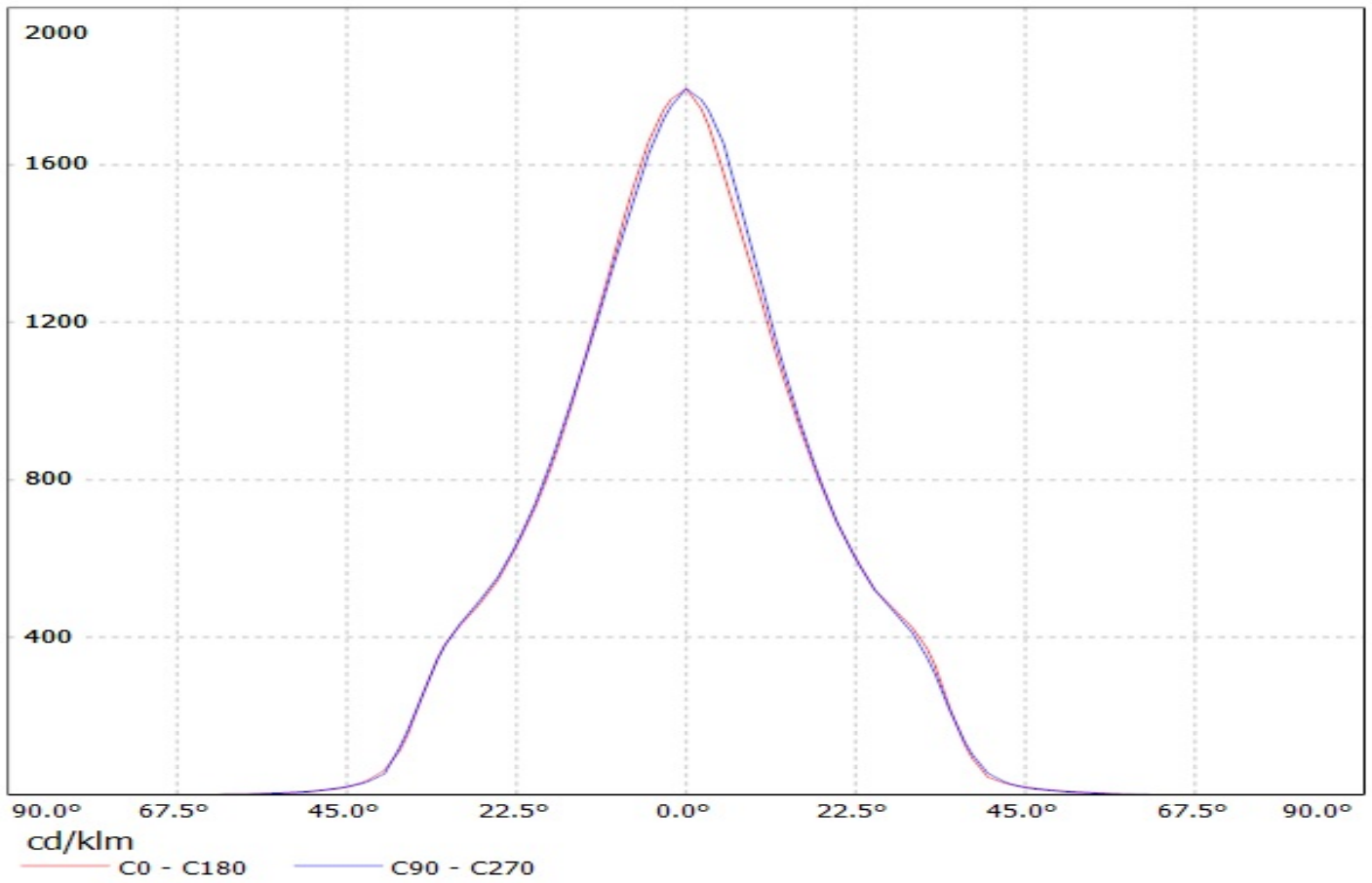
Luminaire: LEDil Oy F13381_ANGELA-W_(NFCxL060B)

Lamps: 1 x Nichia NFCxL060B (SM403G2450R8000) 1250.88lm @ 250mA P=8.4W I=250mA

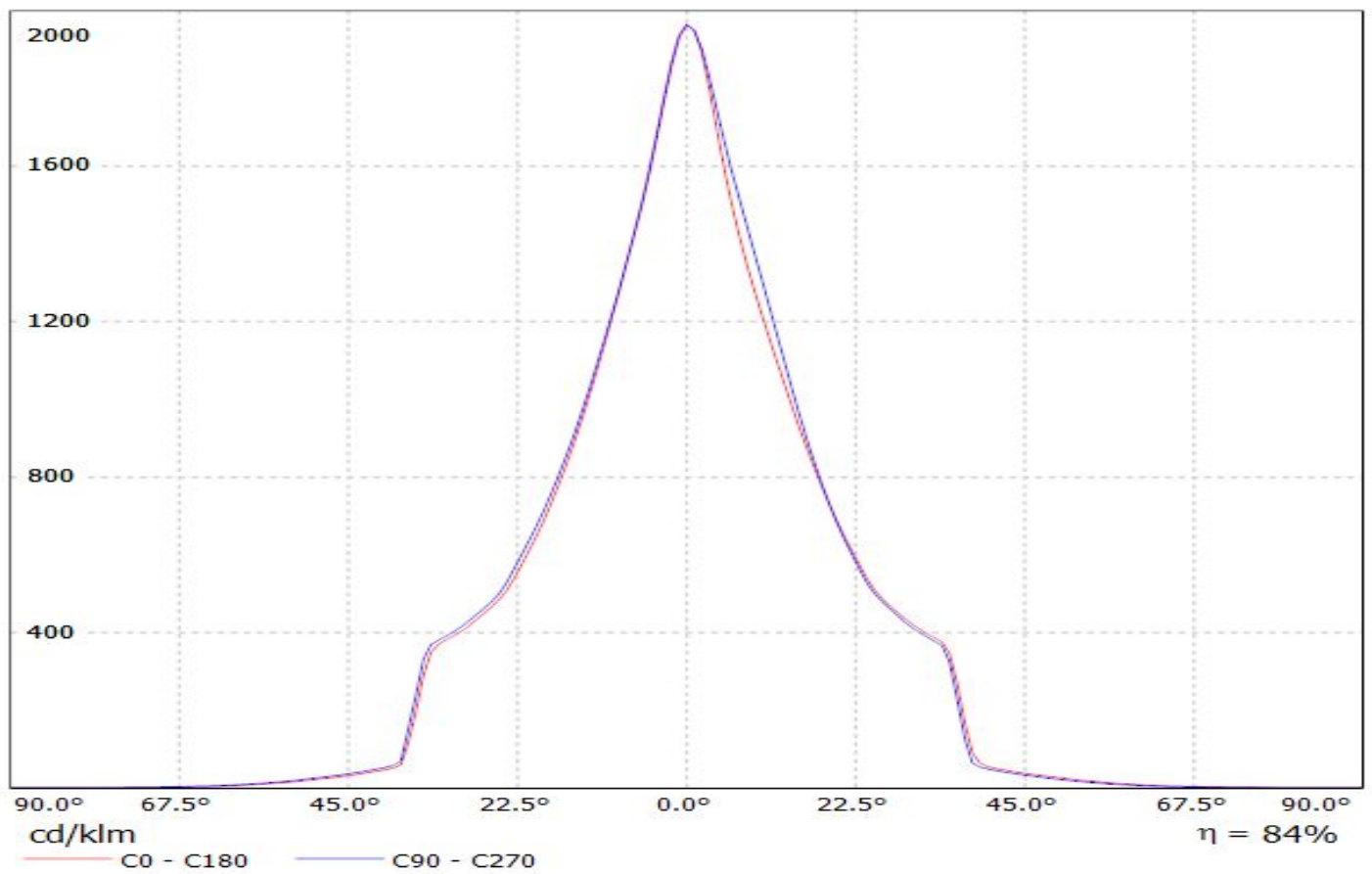


Luminaire: LEDil Oy F13381_ANGELA-W_(NFDxJ130B)

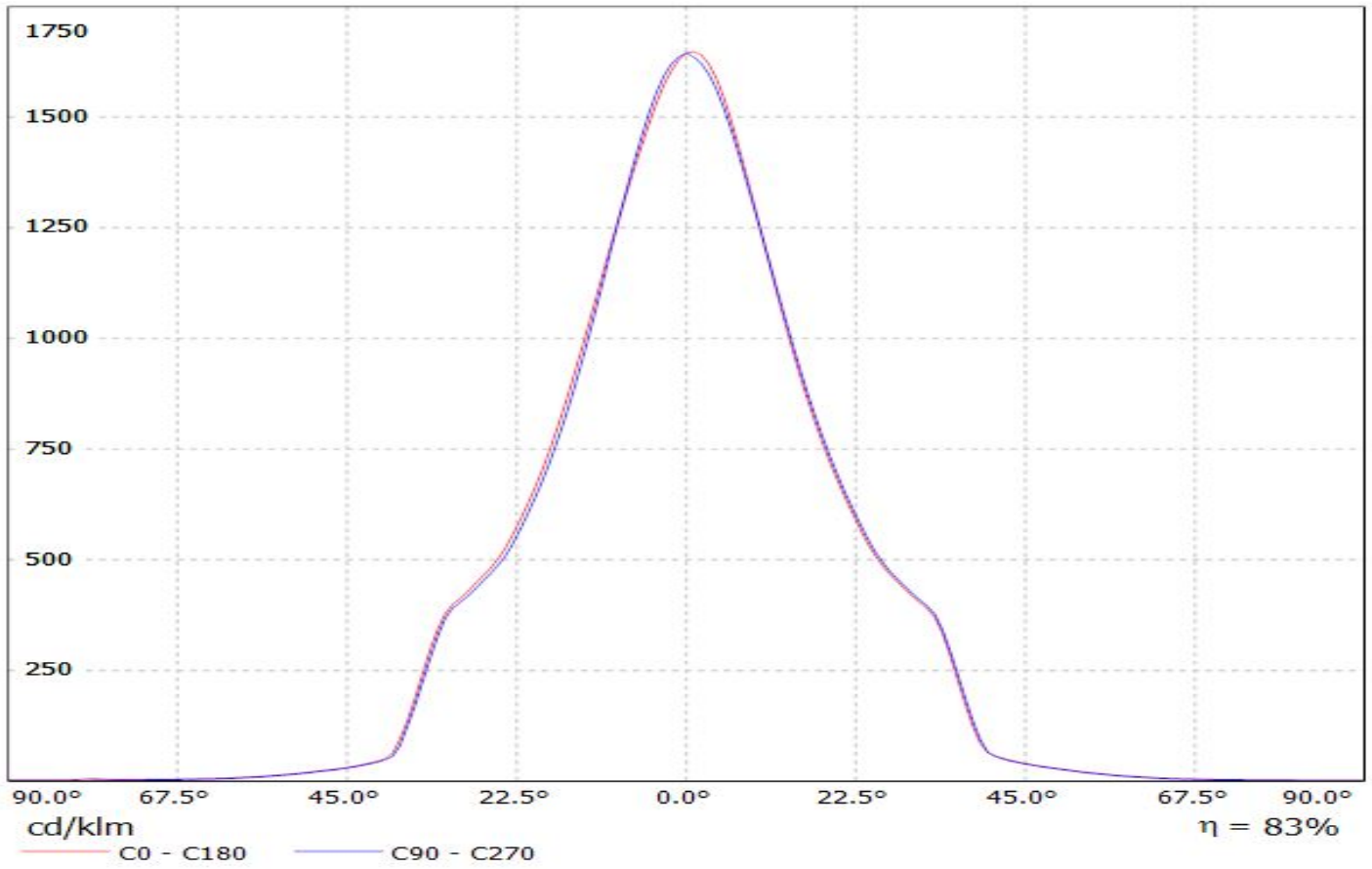
Lamps: 1 x Nichia NFDxJ130B (SM403G6450R8000) 1410.46lm @ 250mA P=8.9W I=250mA



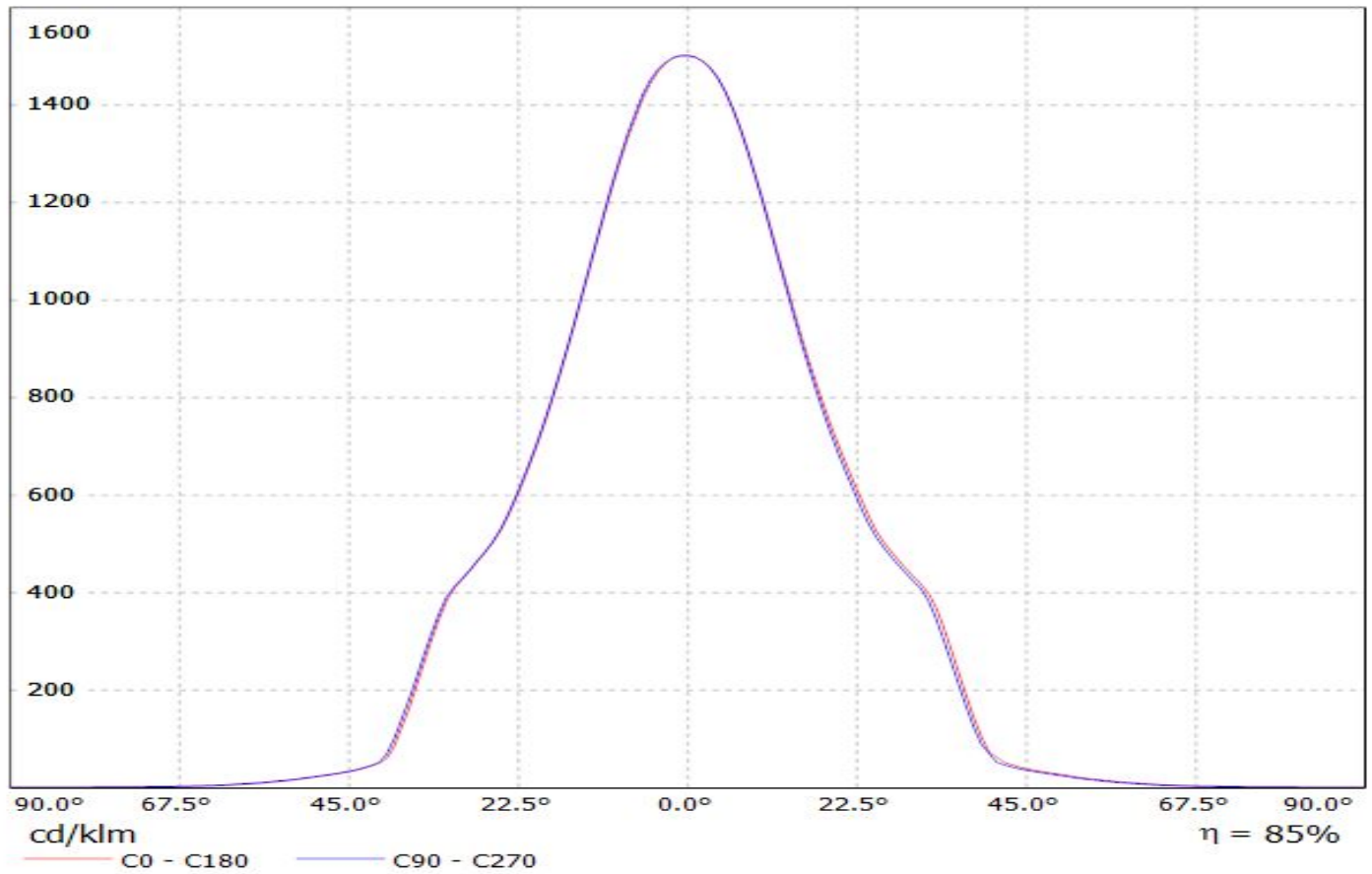
Luminaire: LEDiL Oy F13381_ANGELA-W_(PrevaLED_LES9)
Lamps: 1 x Osram_PrevaLED_Core_Z3_LES9_(PL-CORE-1100-830-Z3)
_1132.95lm@250mA_P=12.1952W_I=249.8mA



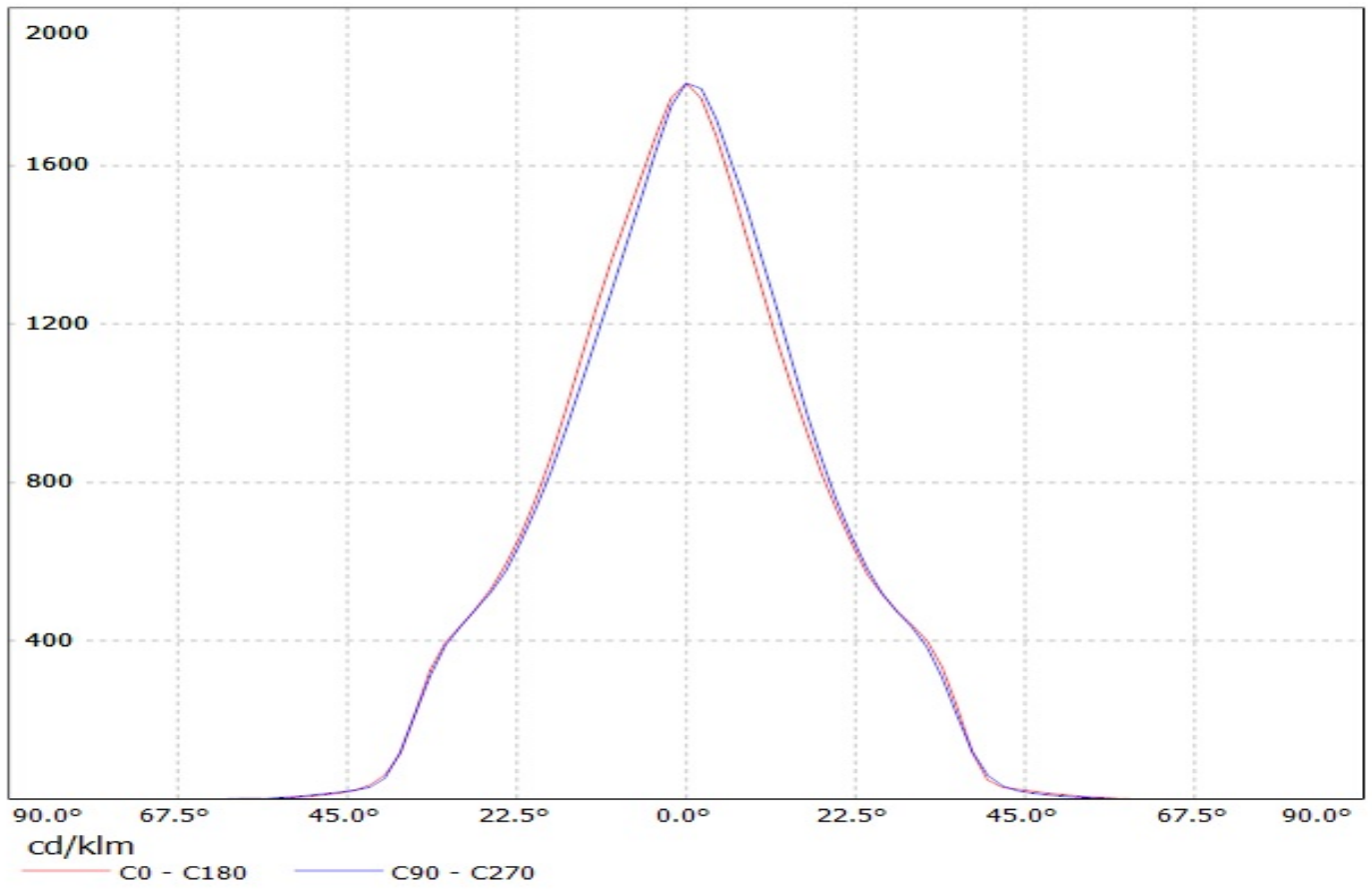
Luminaire: LEDiL Oy F13381_ANGELA-W_(PrevaLED_LES19)
Lamps: 1 x Osram_PrevaLED_CORE_Z3_LES19_(PL-CORE-2000-830-Z3)
_1356.73lm@250mA_P=10.5228W_I=249.9mA



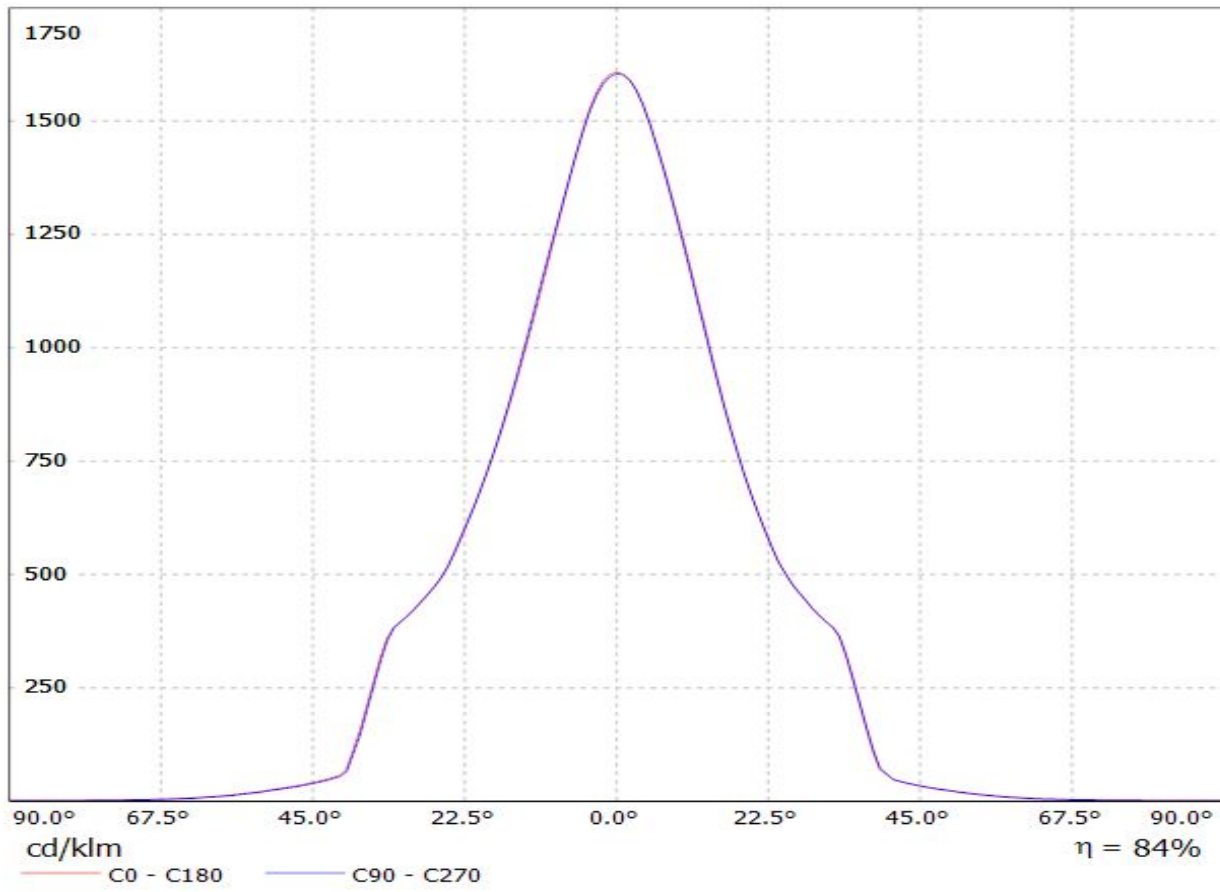
Luminaire: LEDiL Oy F13381_ANGELA-W_(PrevaLED_LES23)
Lamps: 1 x Osram_PrevaLED_Core_Z3_LES23_(PL-CORE-5000-930-Z3)
_1130.05lm@250mA_P=10.0097W_I=249.9mA



Luminaire: LEDil Oy F13381_ANGELA-W_(Soleriq_S13) Efficiency=85%
Lamps: 1 x Osram Soleriq S13 (GW KAGHB1.EM) 855lm @ 250mA CCT=3100K P=7.5W I=250mA

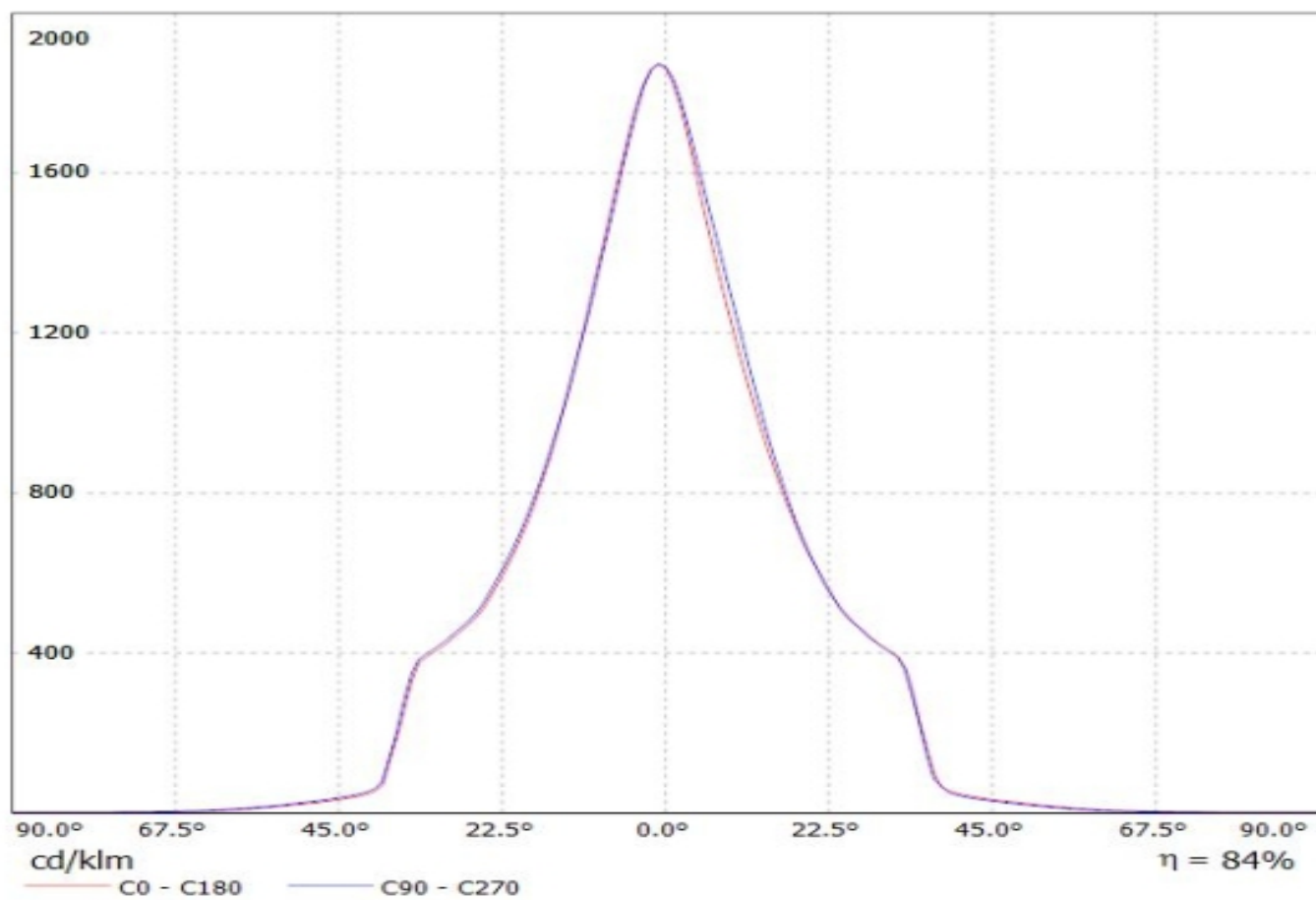


Luminaire: LEDiL Oy F13381_ANGELA-W_(SOLERIQ_S19_&_TE_2213407-2)
Lamps: 1 x OSRAM_SOLERIQ_S19_(GW_KAHJB1.EM)_1385.15lm@250mA_CCT=3000K_P=10.5613W_I=249.8mA

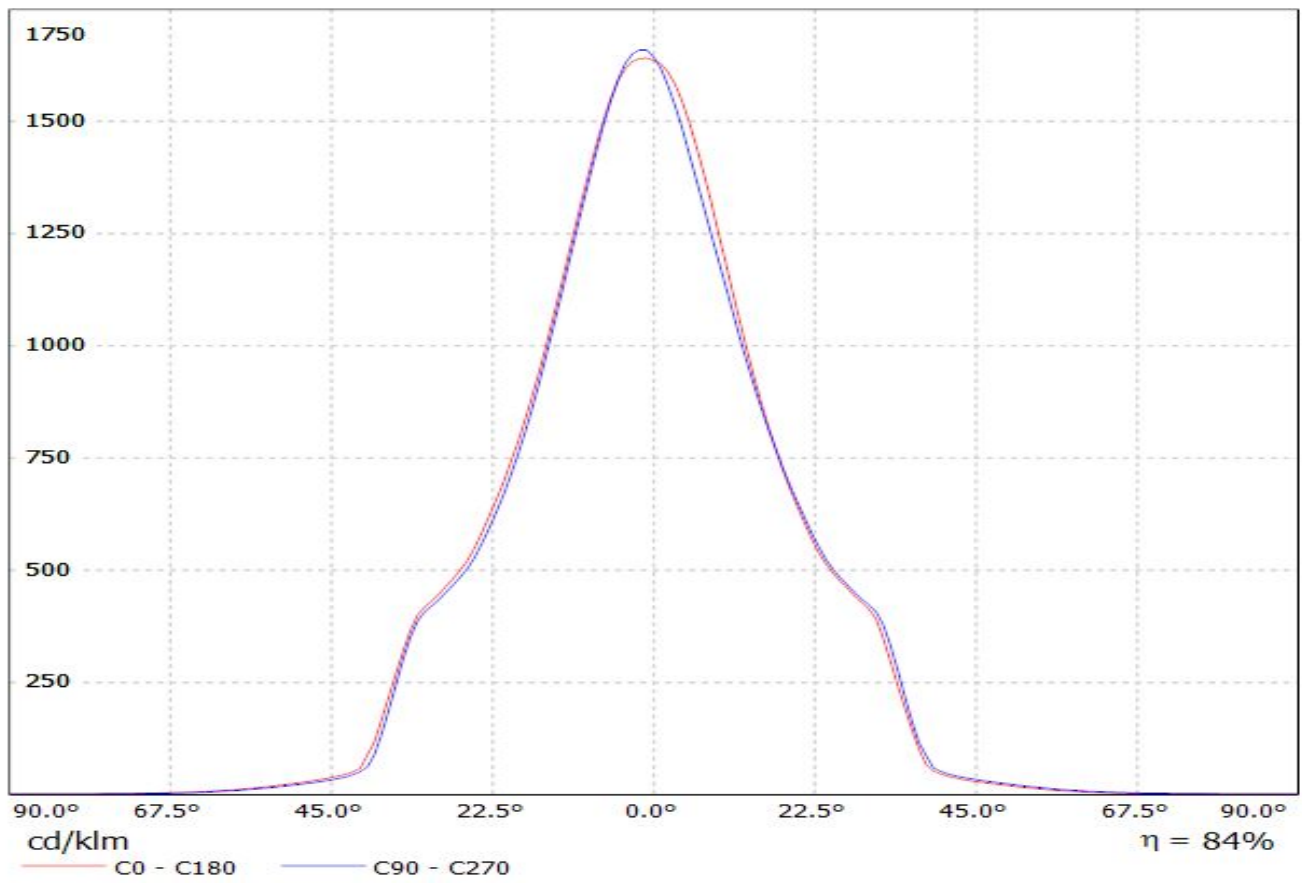


Luminaire: LEDiL Oy F13381_ANGELA-W_(LEP-800-827-C-AC)

Lamps: 1 x OSRAM PrevaLED Core AC (LEP-800-827-C-AC) 910lm@60mA U:230V P:14W

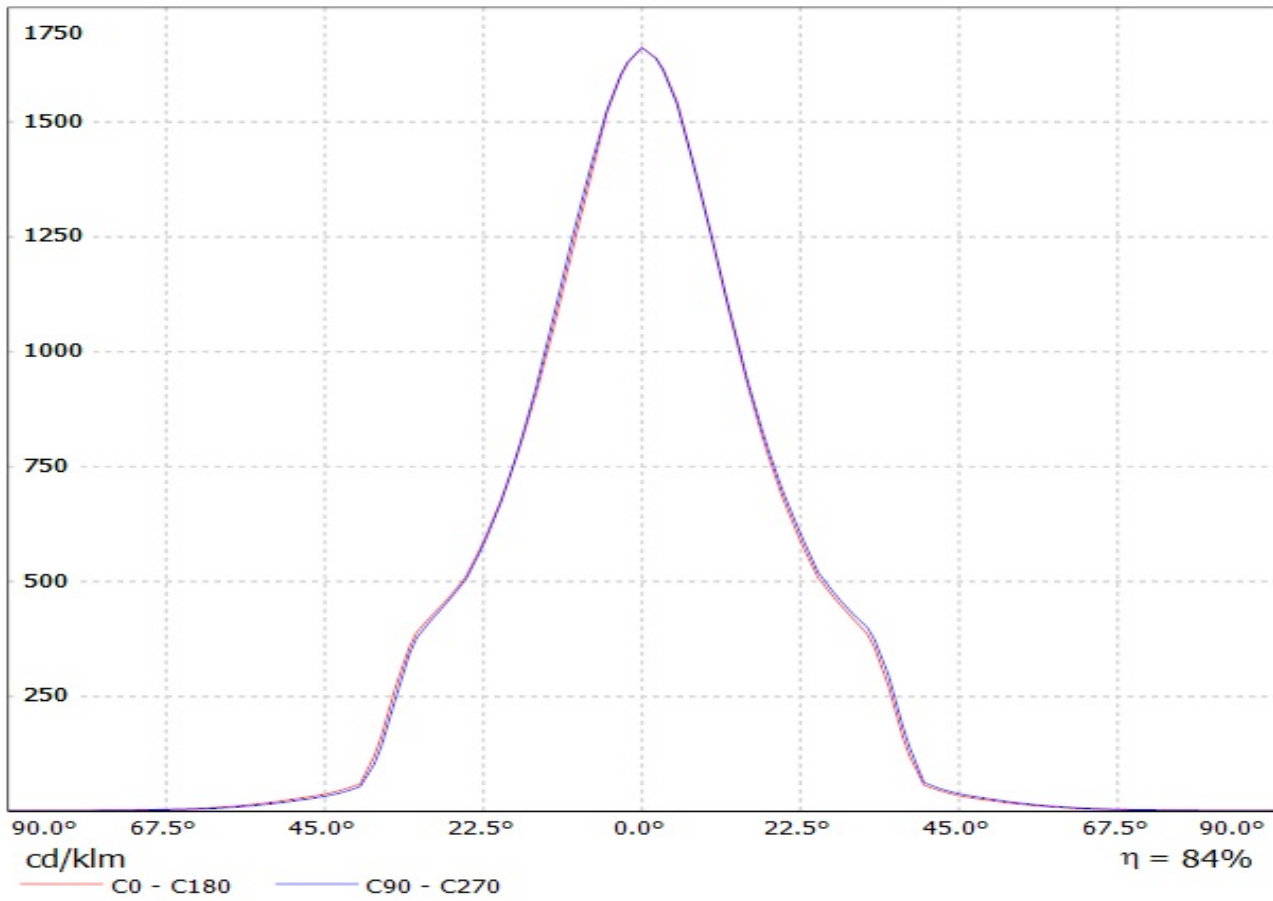


Luminaire: LEDiL Oy F13381_ANGELA-W_(LEP-2000-827-C-AC)
Lamps: 1 x OSRAM PrevaLED Core AC (LEP-2000-827-C-AC)



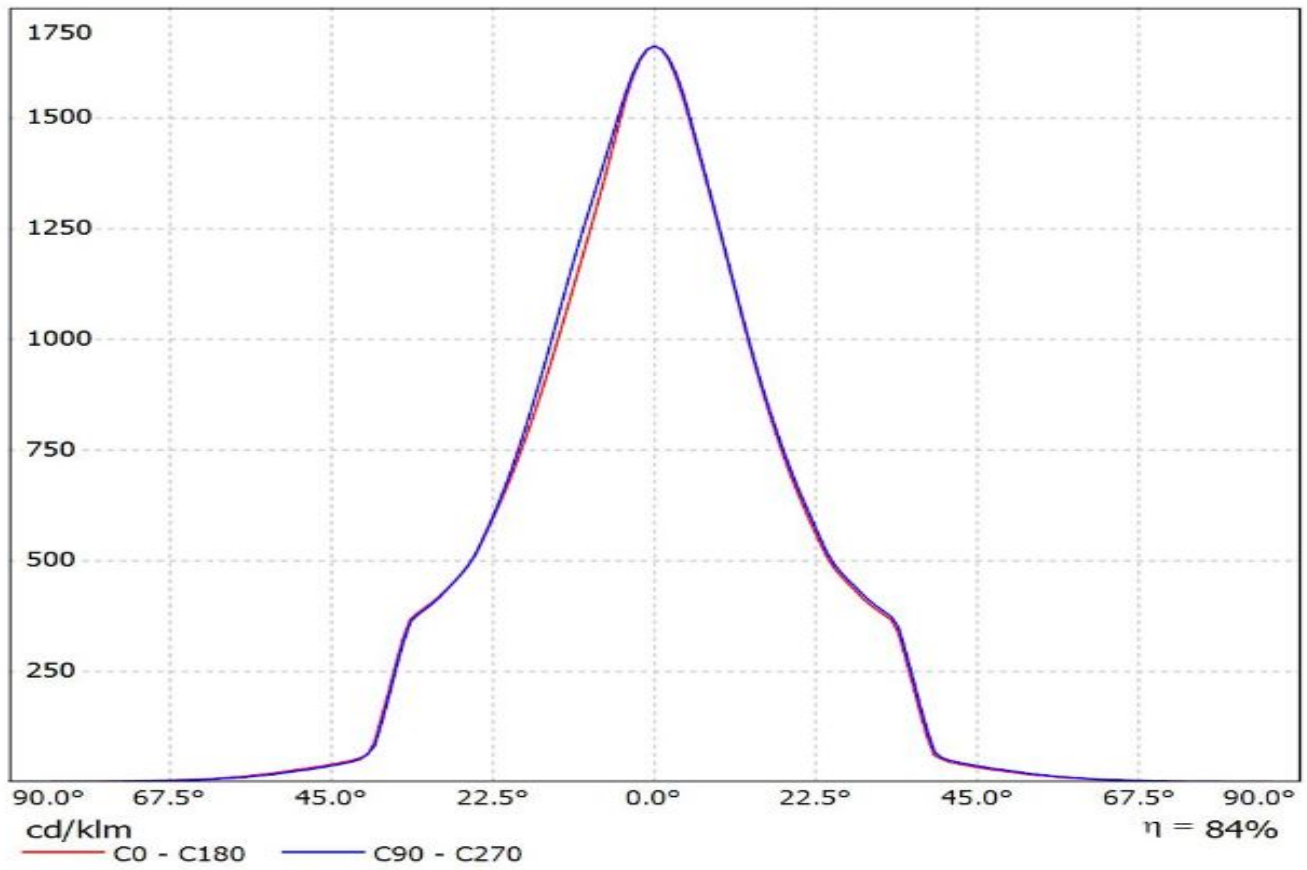
Luminaire: LEDiL Oy F13381_ANGELA-W_(PrevaLED_Z4)Eff 84%

Lamps: 1 x Osram_PrevaLED_CORE_Z4_(PL-CORE-3000-830-Z4)_1423.93lm@250mA_P=10.7652W_I=249.9mA

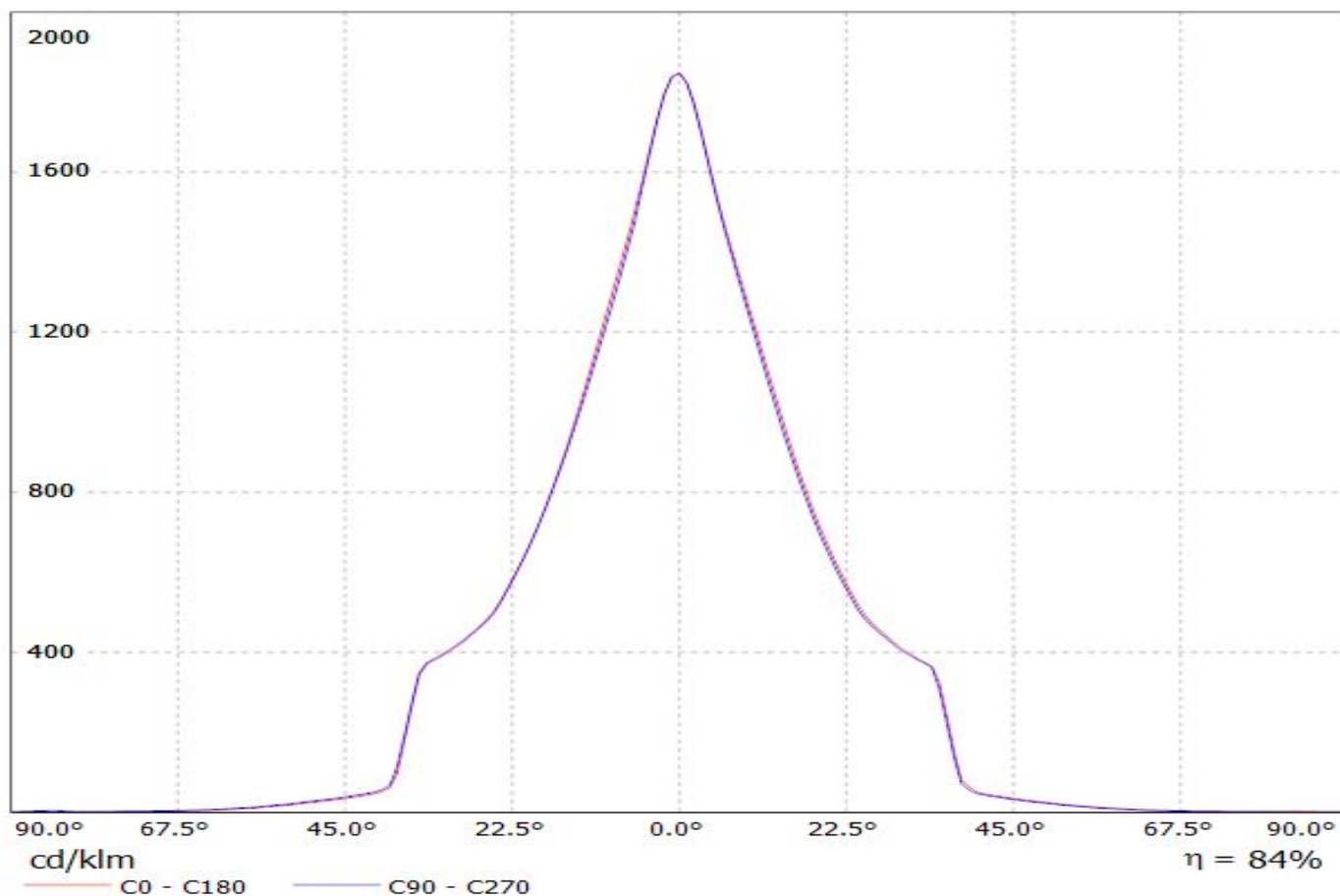


Luminaire: LEDiL Oy F13381_ANGELA-W_(SOLERIQ_P13)

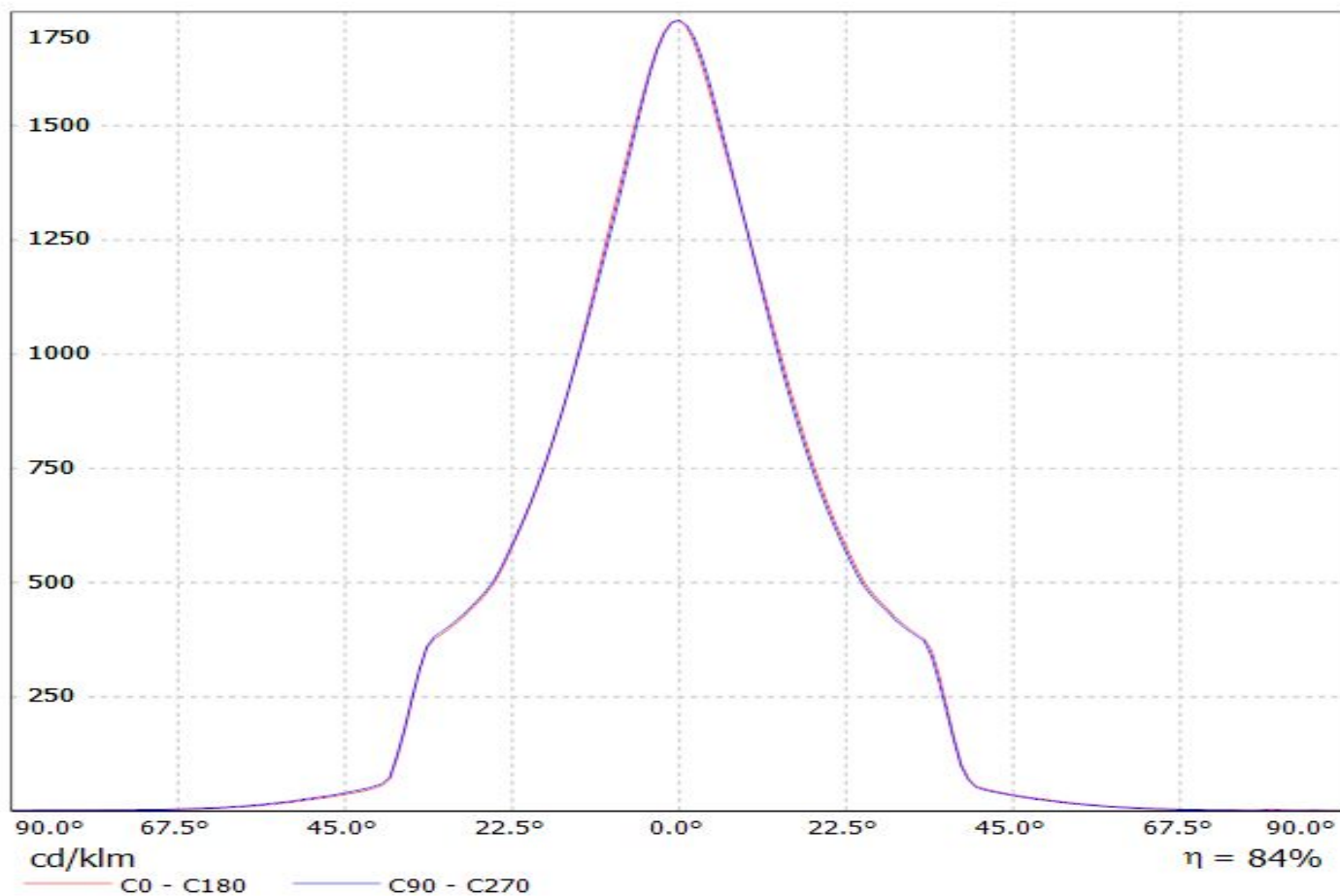
Lamps: 1 x SOLERIQ_P13_(GW_MAGMB1.EM)_1038.25lm@250mA_CCT=3000K_P=8.77223W_I=249.8mA



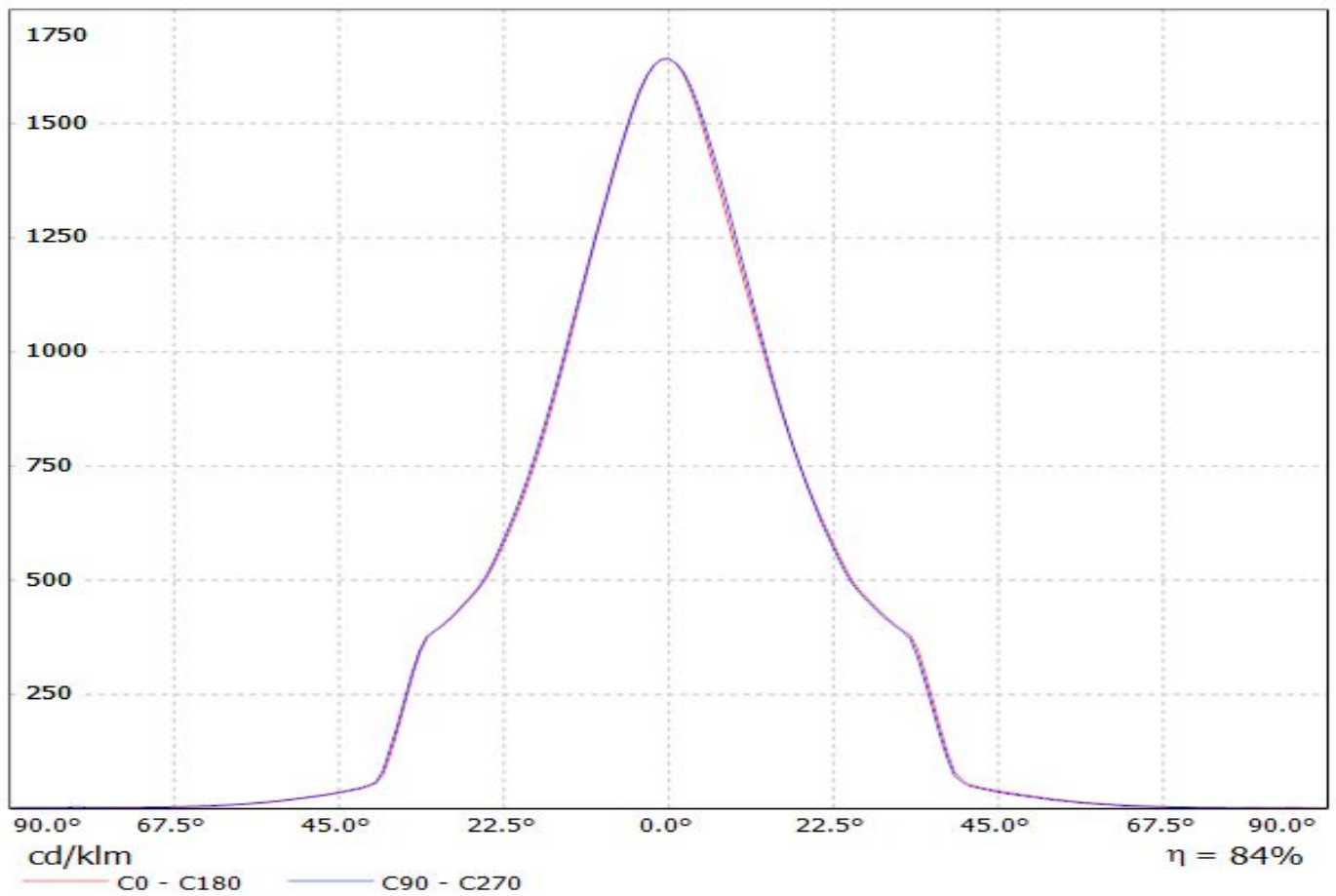
Luminaire: LEDiL Oy F13381_ANGELA-W_(Fortimo LED SLM 1100 Im 830 L9 G4)
Lamps: 1 x Fortimo LED SLM 1100 Im 830 L9 G4_1021.27lm@250mA_P=9.2431W_I=0.2498A



Luminaire: LEDiL Oy F13381_ANGELA-W_(Fortimo LED SLM L13 G4)
Lamps: 1 x Fortimo LED SLM L13 G4_1030.19lm@250mA_P=8.38104W_I=0.2498A

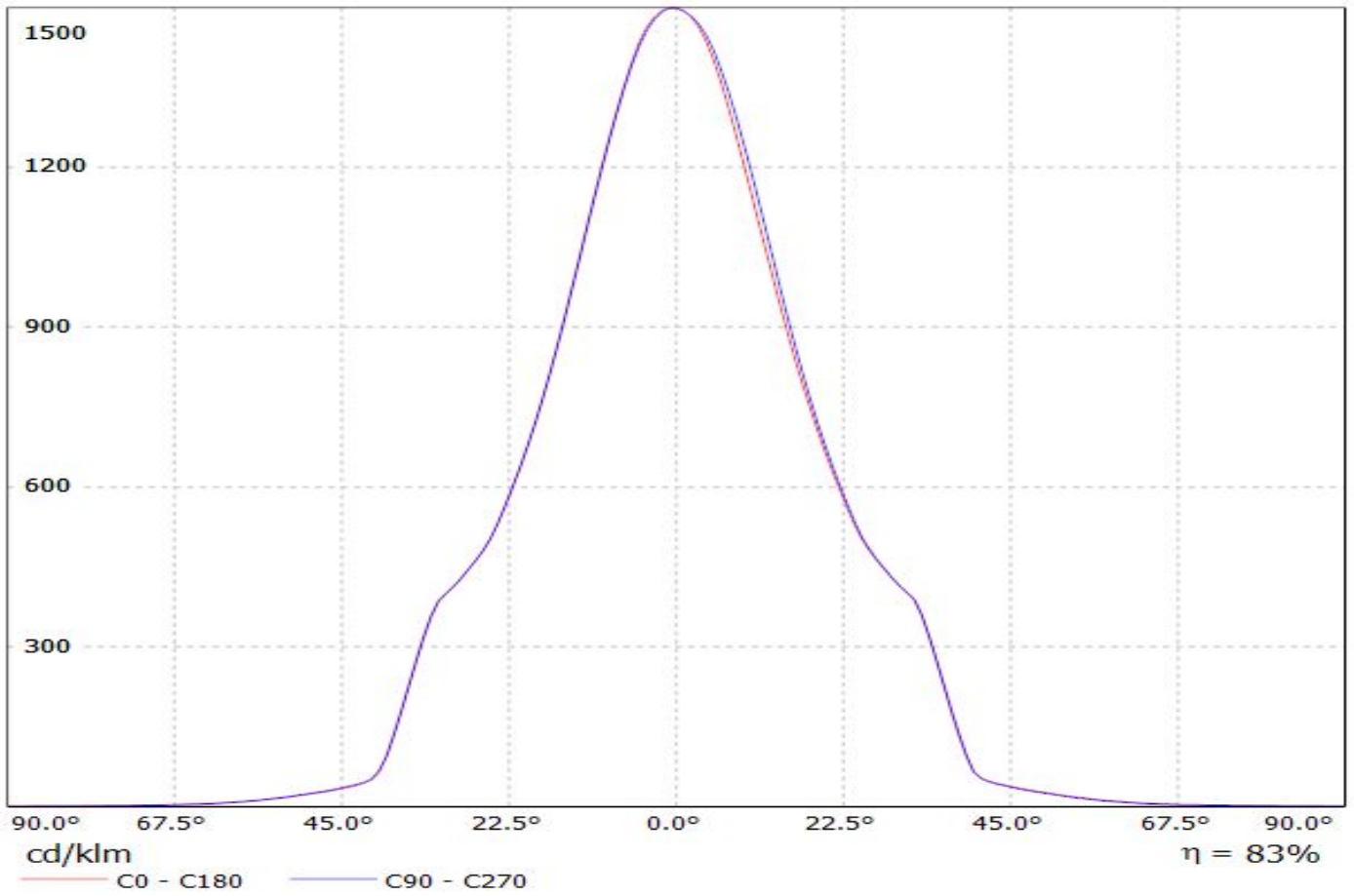


Luminaire: LEDiL Oy F13381_ANGELA-W_(Fortimo LED SLM L15 G4)
Lamps: 1 x Fortimo LED SLM L15 G4_1116.47lm@250mA_P=8.21168W_I=0.2498A

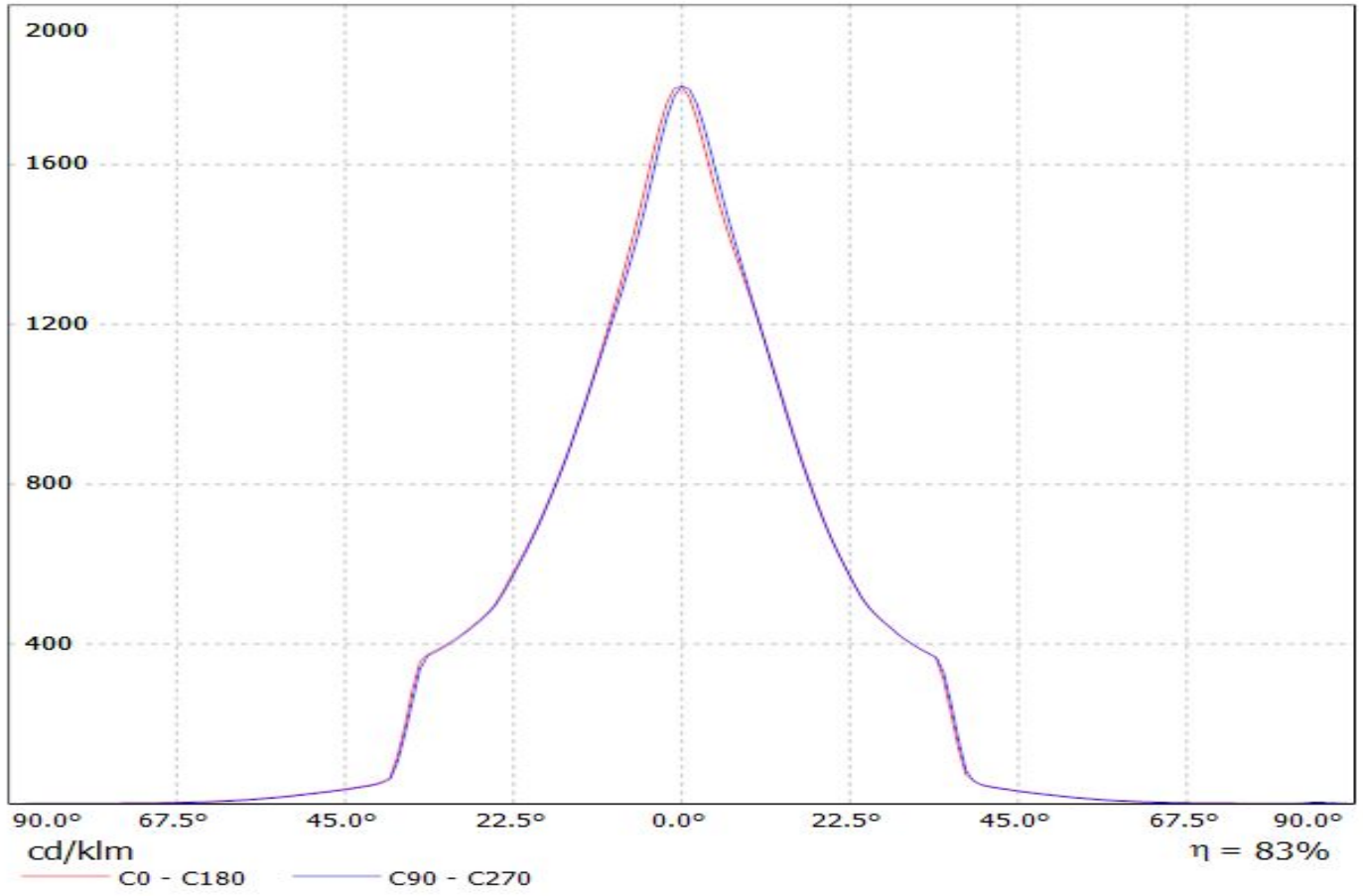


Luminaire: LEDiL Oy F13381_ANGELA-W_(Fortimo LED SLM L19 G4)

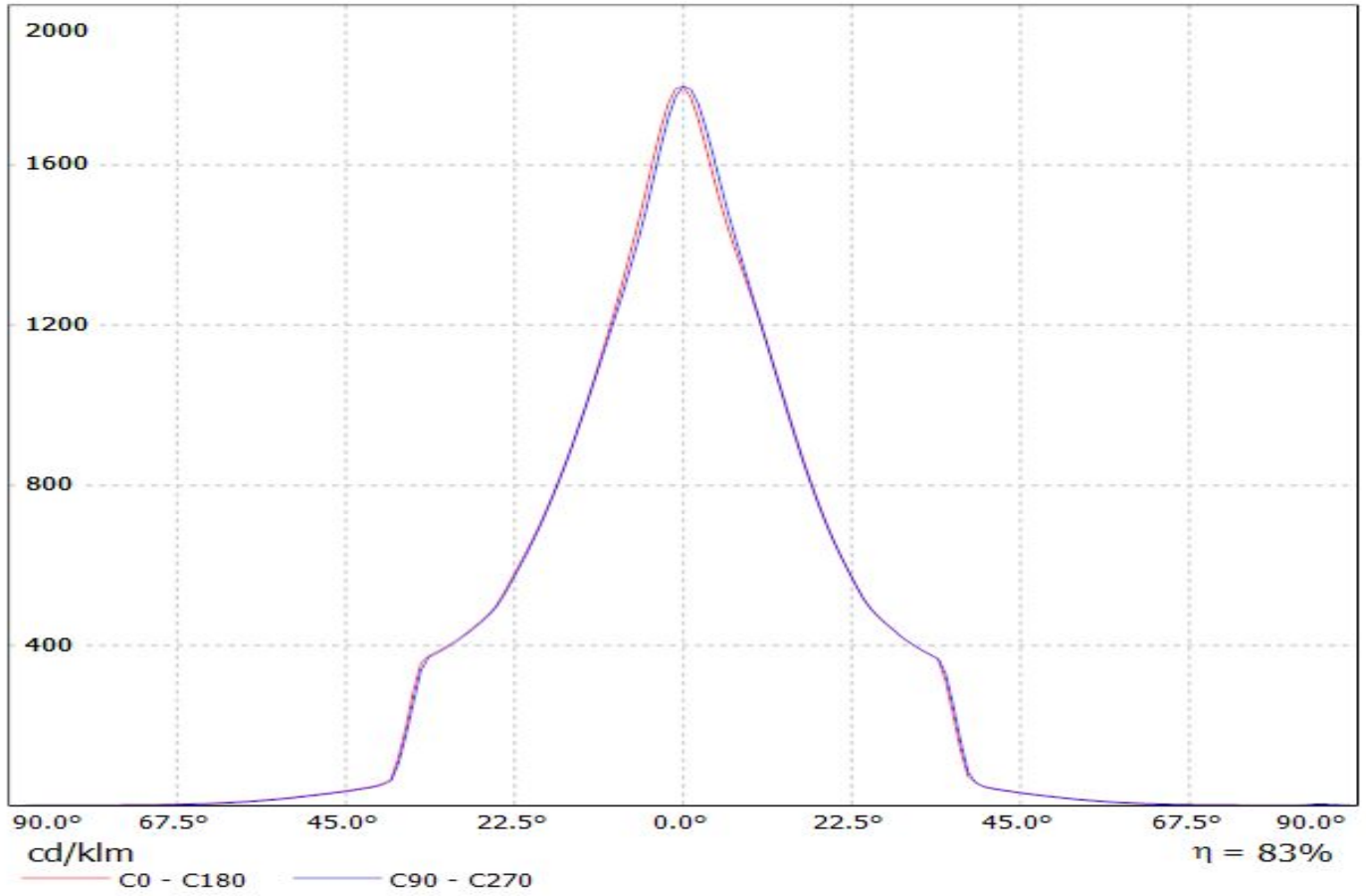
Lamps: 1 x Fortimo LED SLM L19 G4_1114.89lm@250mA_P=8.04906W_I=0.2498A



Luminaire: LEDiL Oy F13381_ANGELA-W_(SLM-G5-LES-9)_ (Z50-Optic-Clip)
Lamps: 1 x Fortimo_SLM-G5-LES-9_1182.49lm@250mA_P=8.5848W_I=0.250A

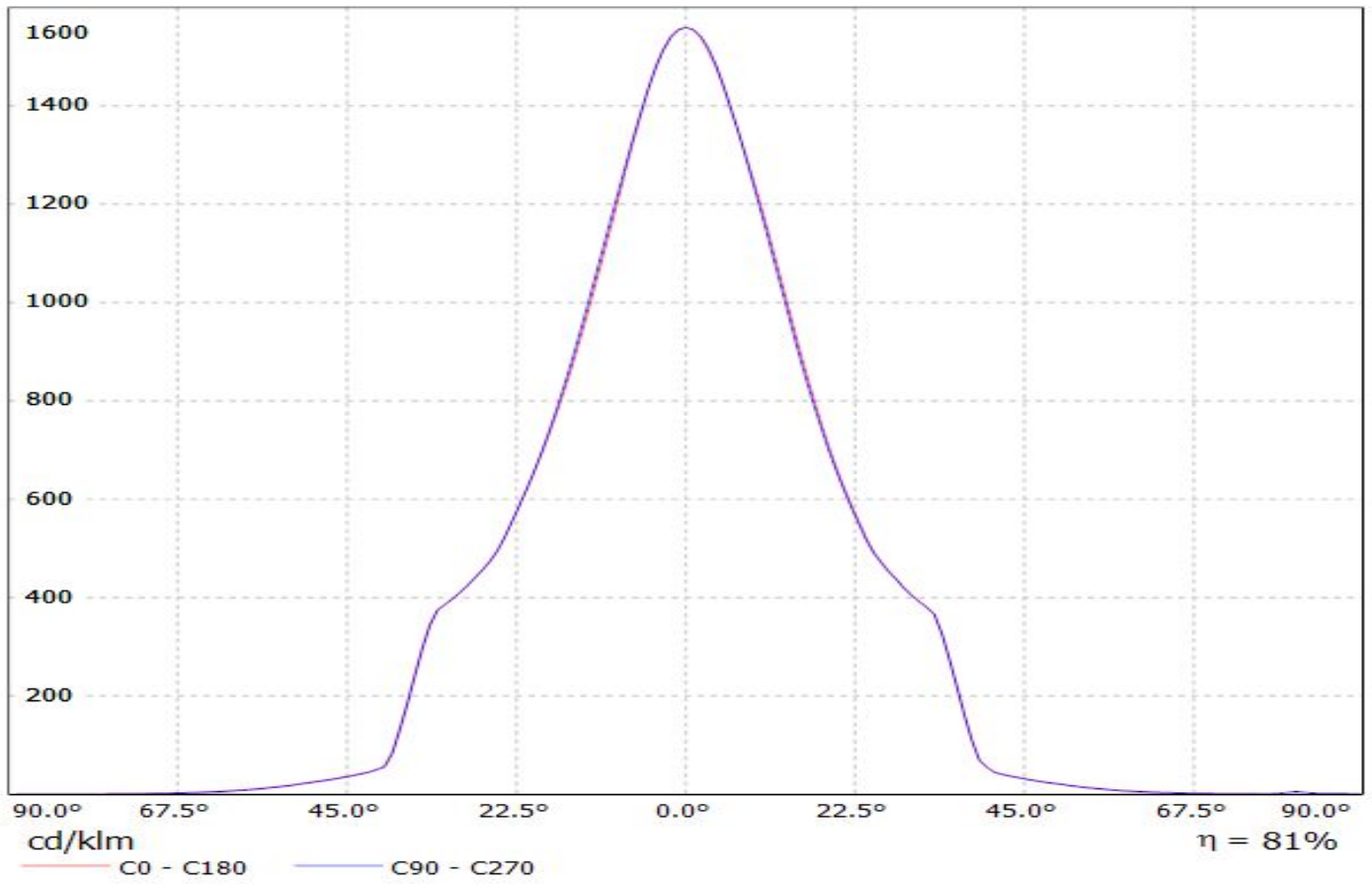


Luminaire: LEDiL Oy F13381_ANGELA-W_(SLM-G5-LES-9)_ (Z50-Optic-Clip)
Lamps: 1 x Fortimo_SLM-G5-LES-9_1182.49lm@250mA_P=8.5848W_I=0.250A

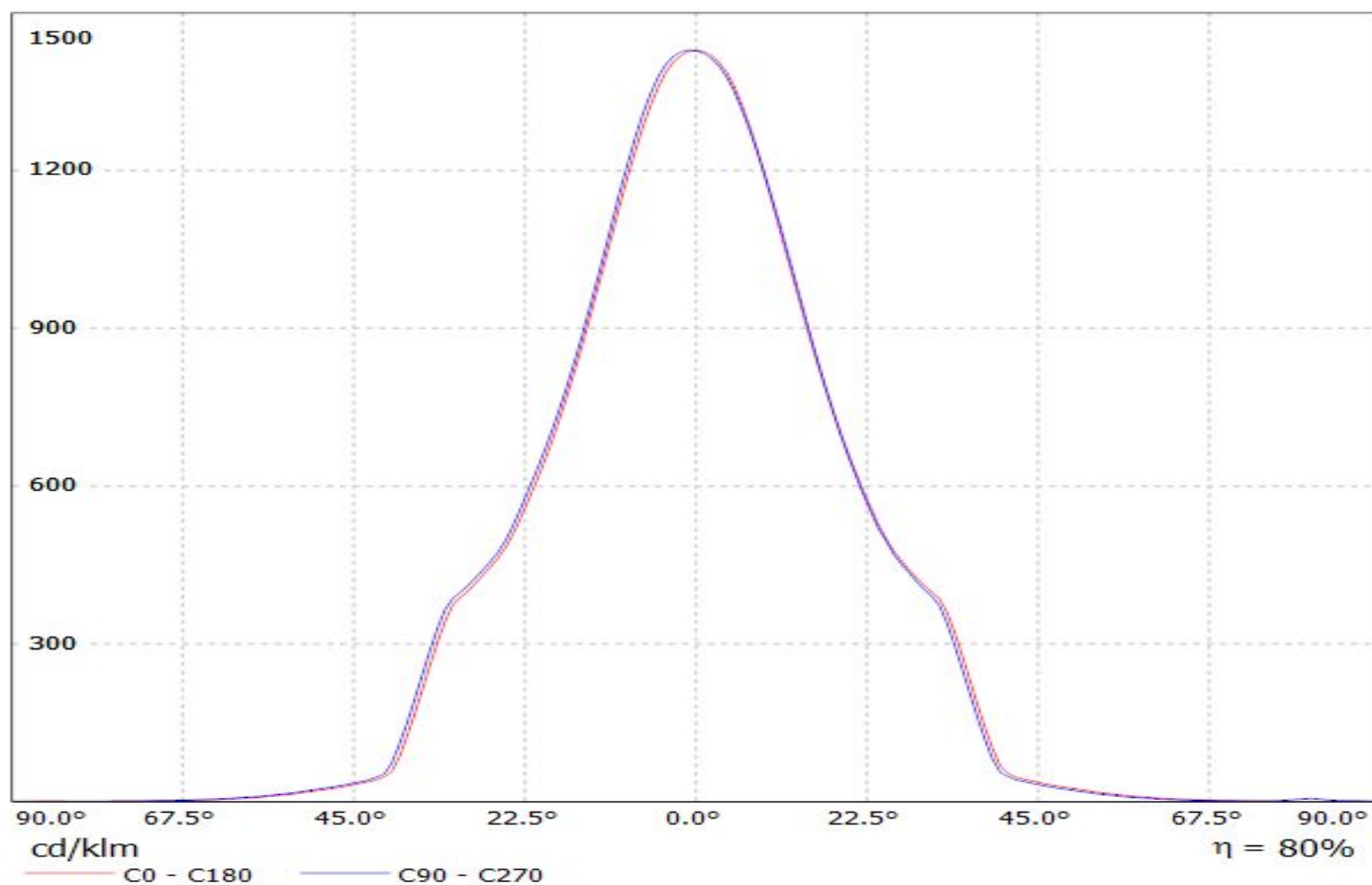


Luminaire: LEDiL Oy F13381_ANGELA-W_(SLM-G5_LES-15)

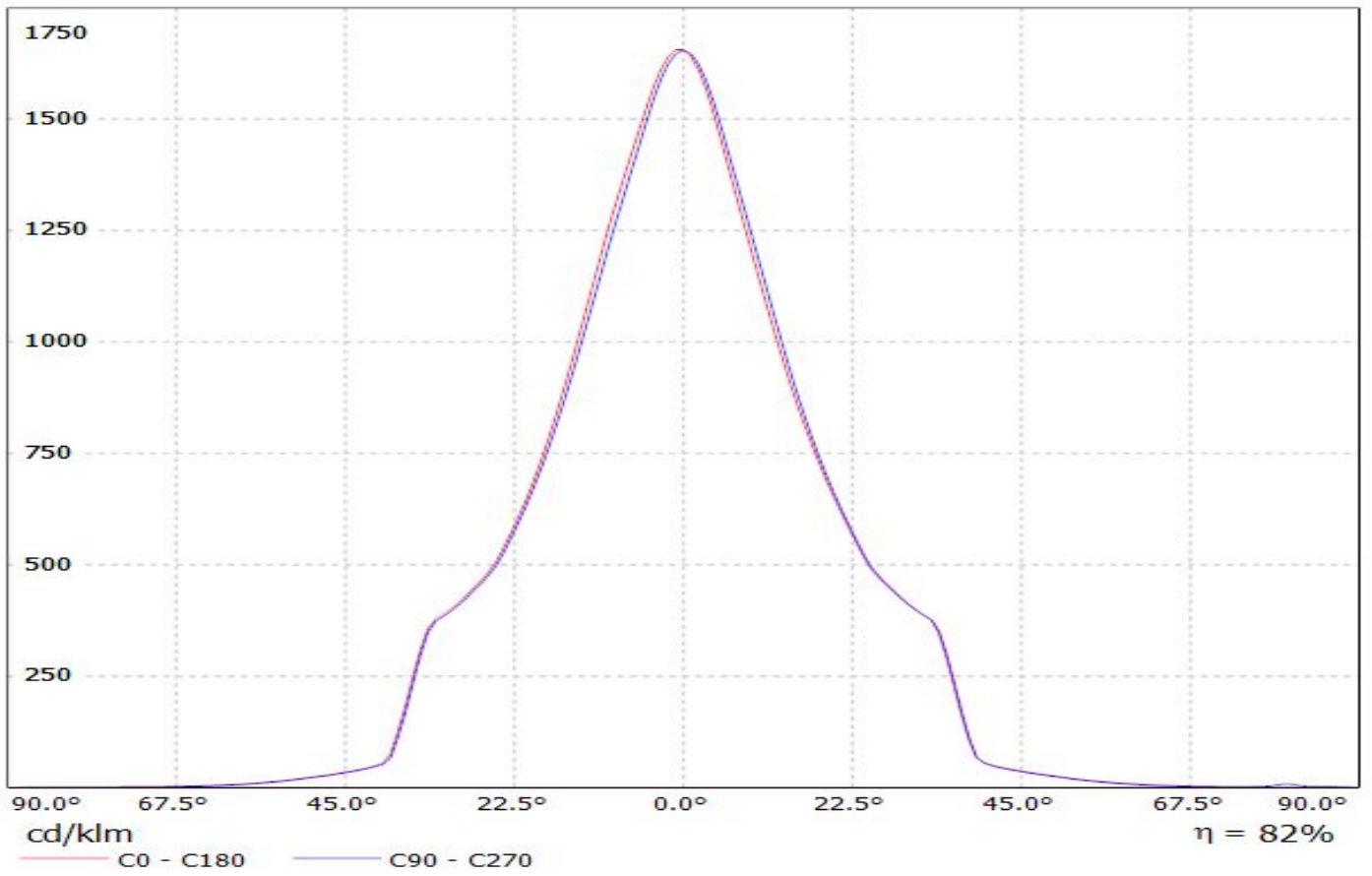
Lamps: 1 x Fortimo_SLM-G5_LES-15_1257.61lm@250mA_P=8.1569W_I=0.250A



Luminaire: LEDiL Oy F13381_ANGELA-W_(SLM-G5_LES-19)_ (Z50_Optic_Clip)
Lamps: 1 x Fortimo_SLM-G5_LES-19_1397.58lm@250mA_P=8.0385W_I=0.250A

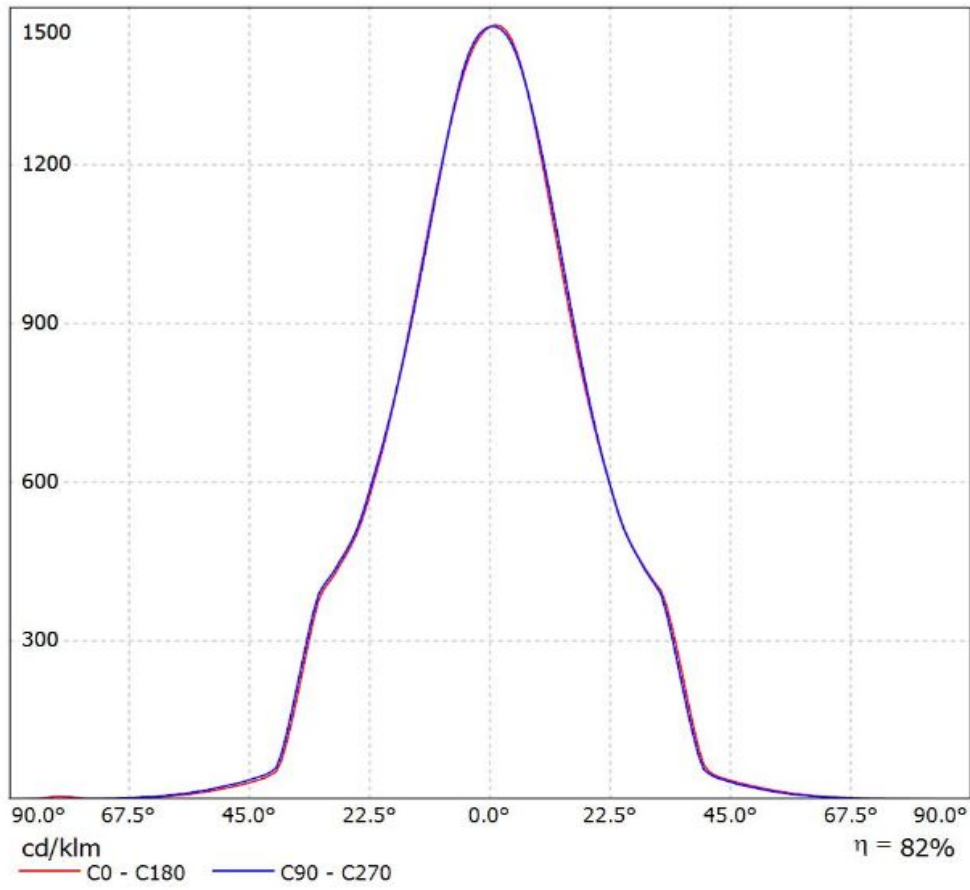


Luminaire: LEDiL Oy F13381_ANGELA-W_(SLM-G5_LES-13)_ (Z50-Optic-Clip)
Lamps: 1 x Fortimo_SLM-G5_LES-13_1300.47lm@250mA_P=8.4010W_I=0.250A

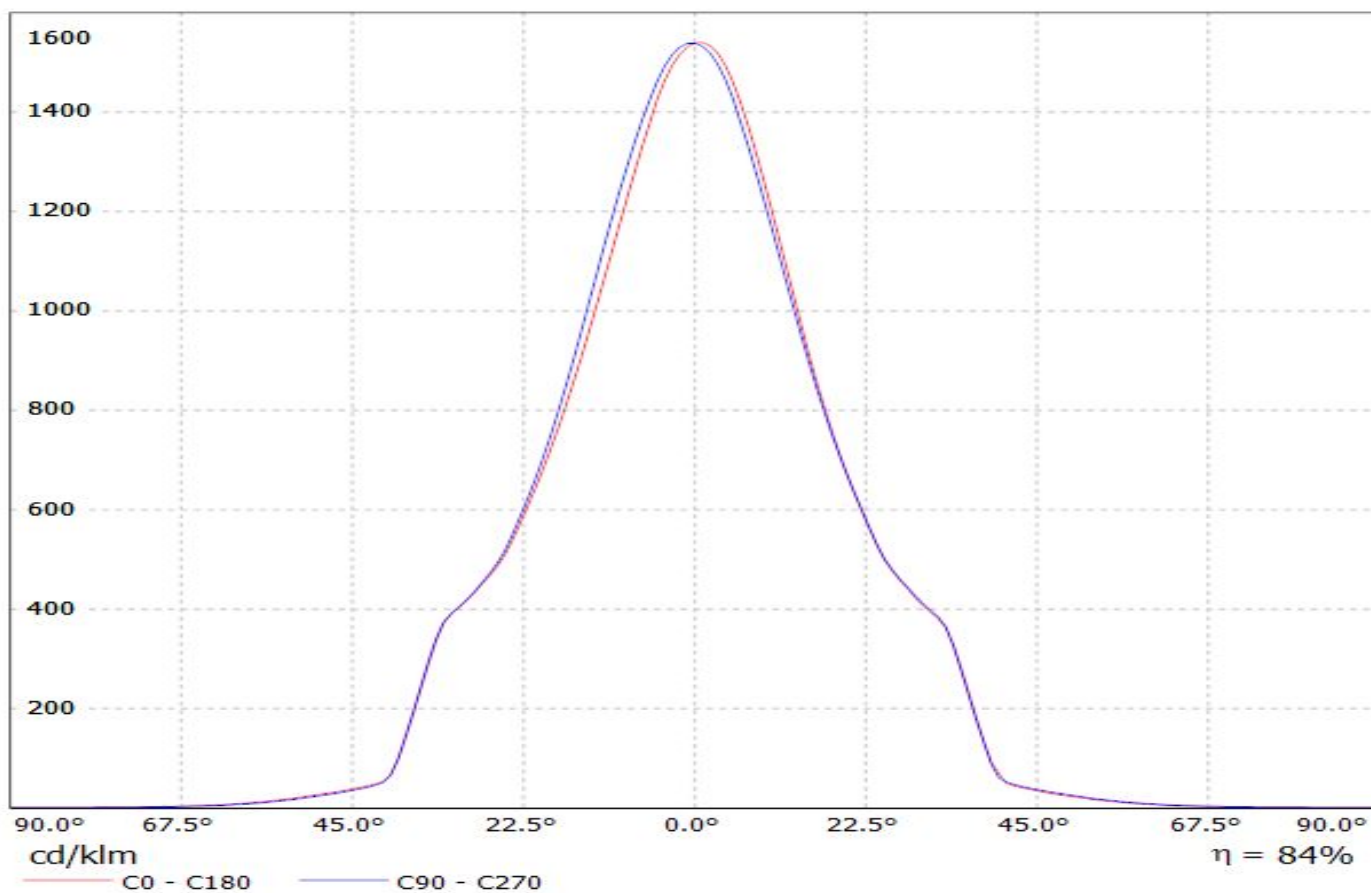


Luminaire: Ledil F13381_ANGELA-W_(SLM_1211_L19_G6_+TE)

Lamps: 1 x Philips_Fortimo_SLM_1211_L19_G6_Standard_+_TE_OPTIC_CLIP_Z50_TYPE1:_2213194-1_1146.84lm@250mA_P=8.13175W_I=0.25A

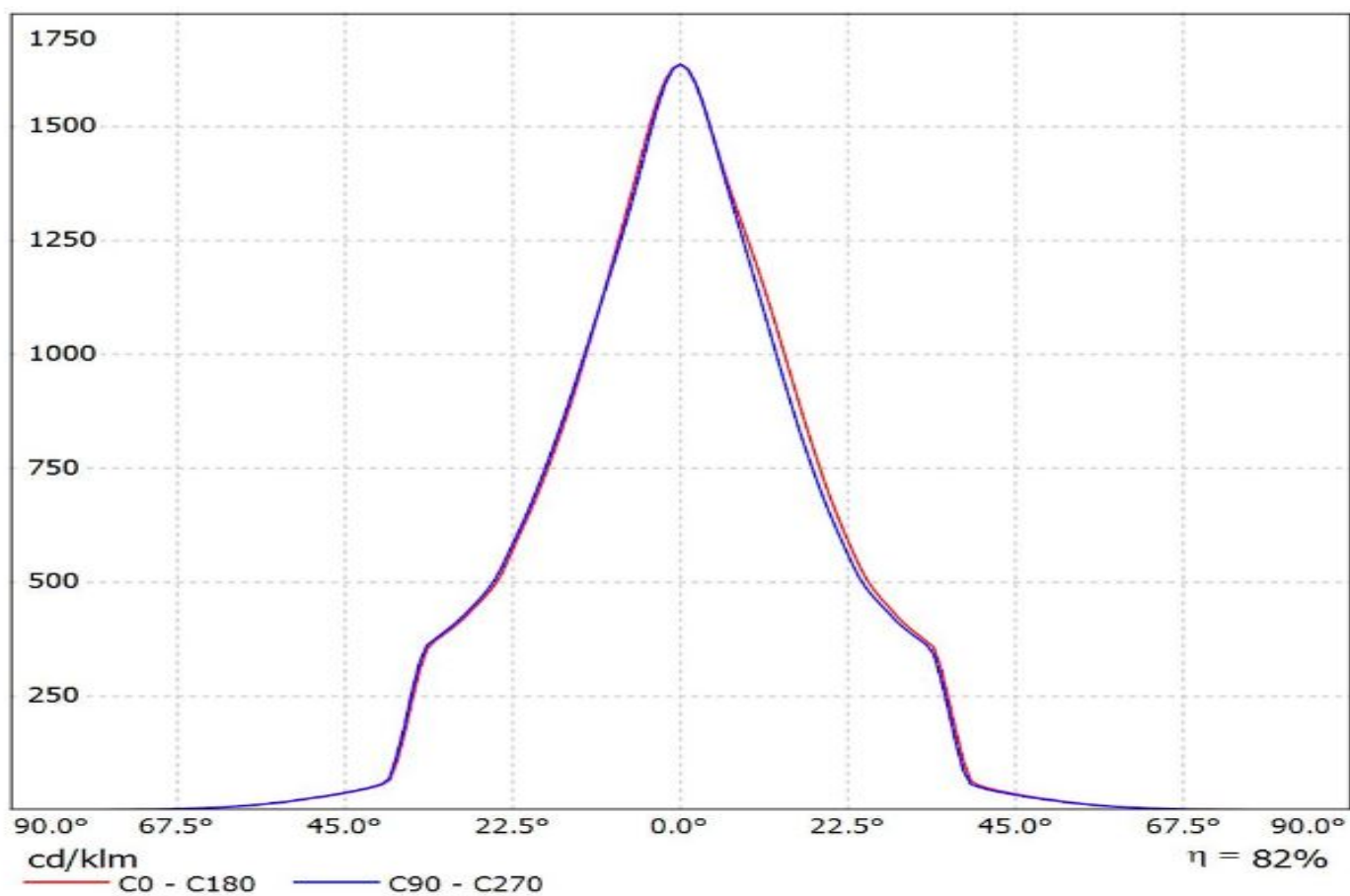


Luminaire: LEDiL Oy F13381_ANGELA-W_(COB-LC026B) Eff.83.8%
Lamps: 1 x SAMSUNG_COB-LC026B_(SPHWWTHDNC25YHV52F)
_1122.94lm@250mA_P=8.2479W_I=249.8mA



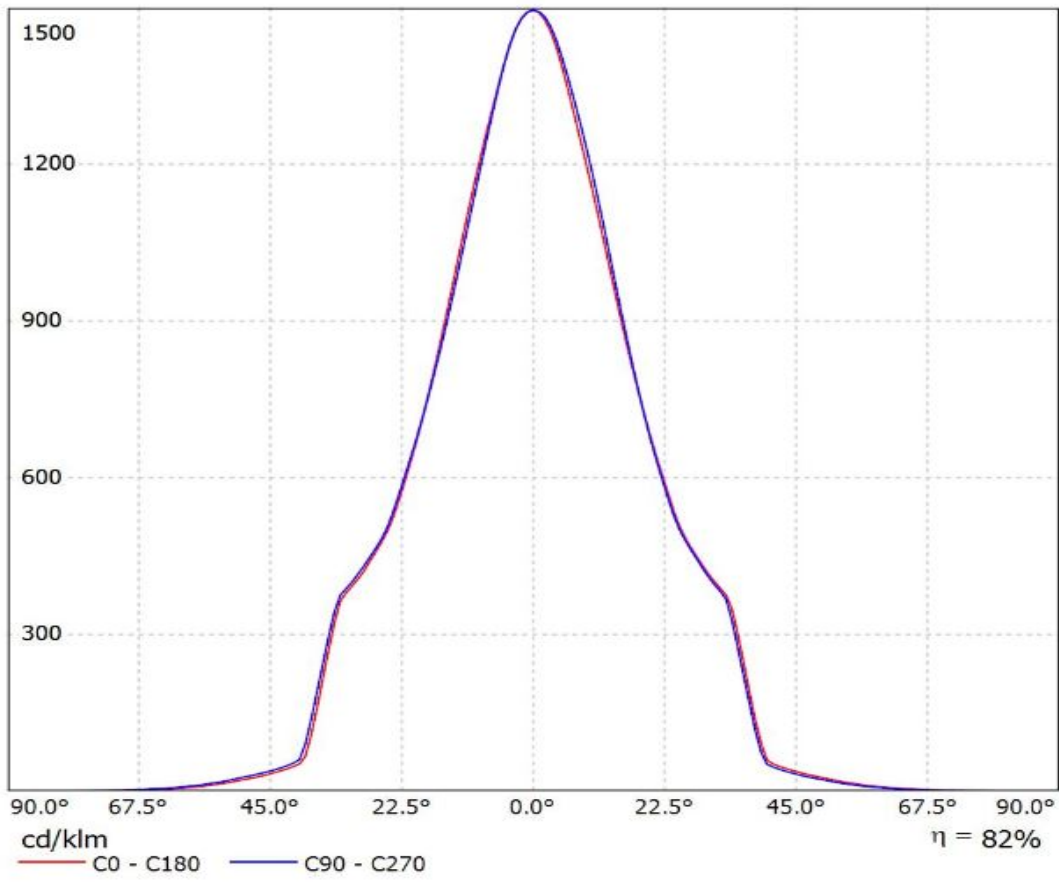
Luminaire: Ledil F13381_ANGELA-W_(LC040C+TE)

Lamps: 1 x Samsung_LC040C+_2213382-2+_2213194-1_1194.16lm@250mA_CCT=4000K_P=8.137W



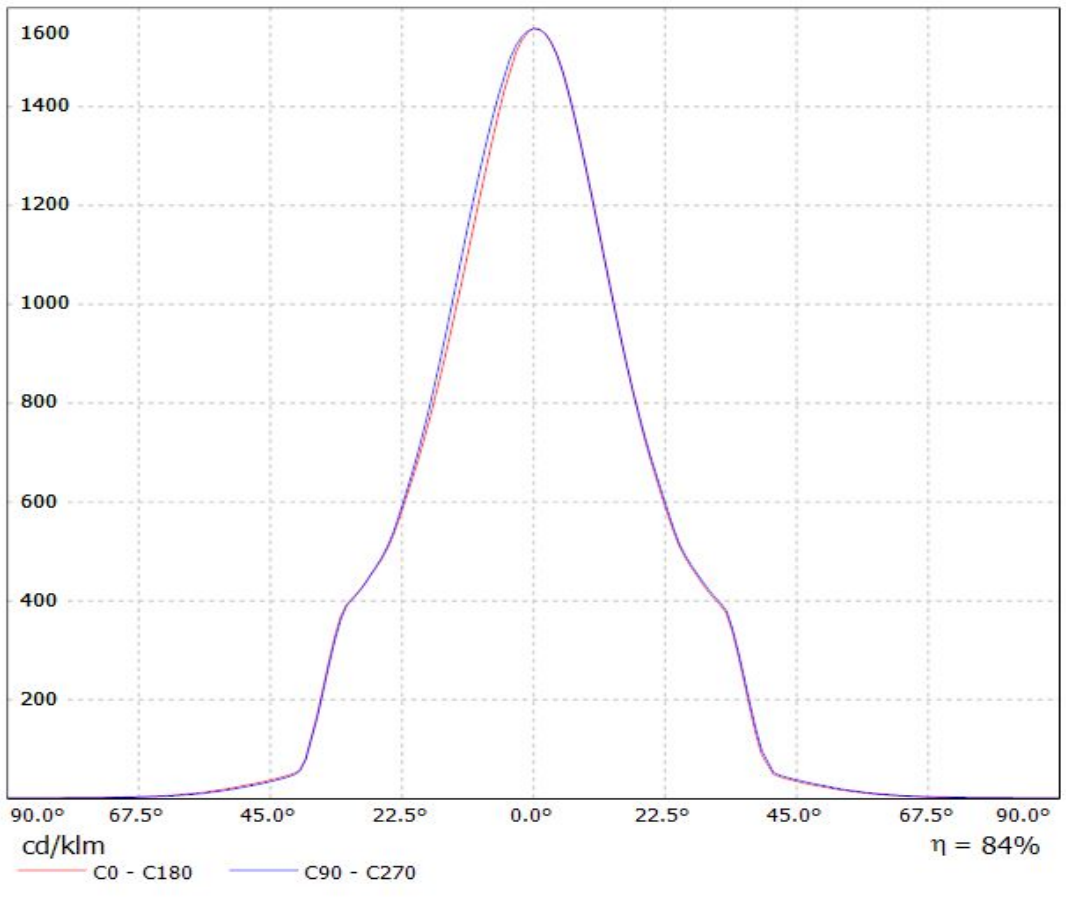
Luminaire: Ledil F13381_ANGELA-W_(MJT_30W_Les14,5)_TE

Lamps: 1 x Seoul_MJT_30W_Les14,5mm_(SAWx1566A)_+TE_2213254-2_+_TE_2213194-1_1328.6lm@250mA_P=8.24025W_I=0.25A

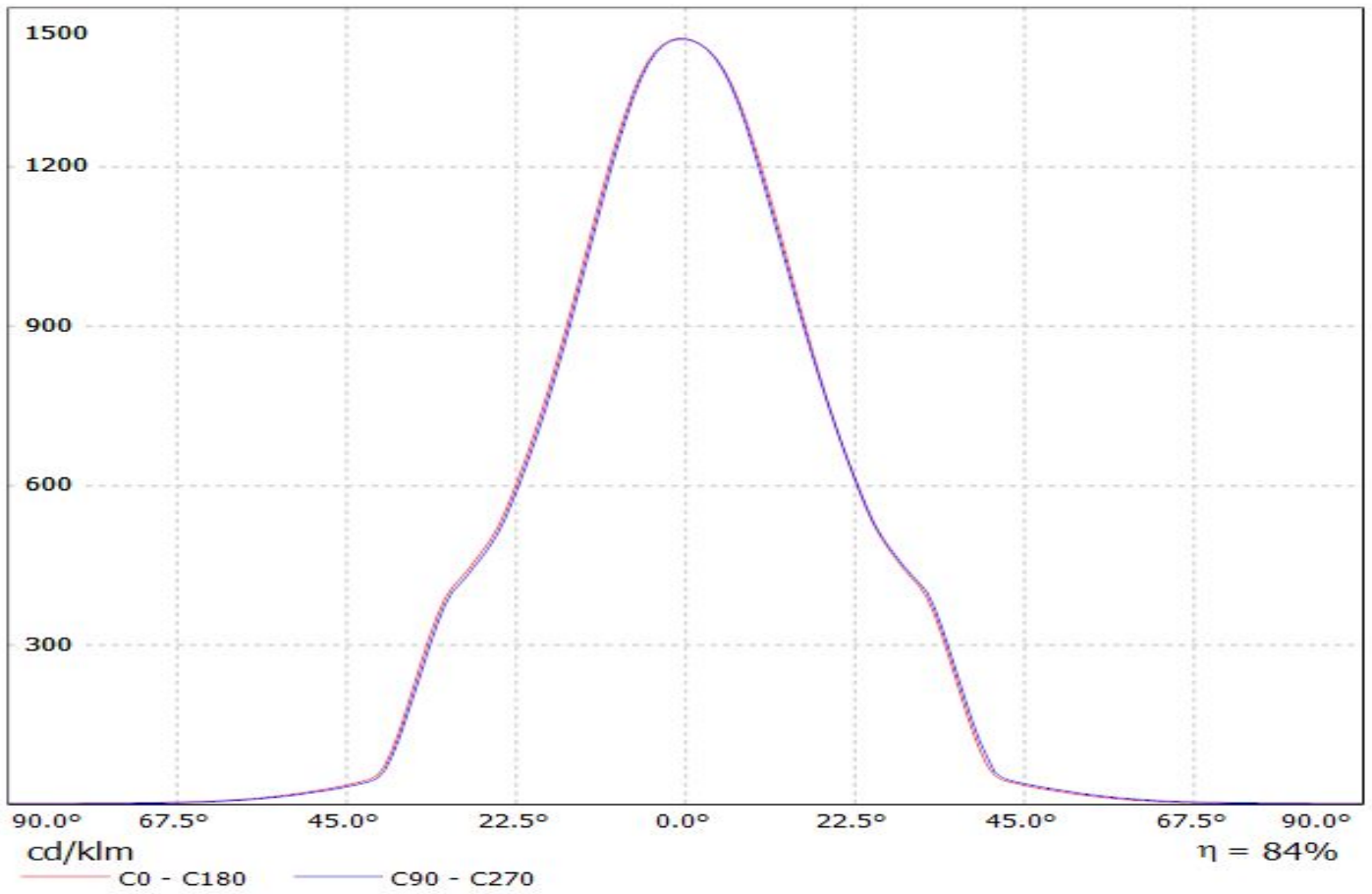


Luminaire: LEDiL Oy F13381_ANGELA-W (STARK_LES19)

Lamps: 1 x Tridonic_STARK_SLE_G3_LES19_(Stark-SLE-PURE-G3-19-2000-840-CLA)_1050.59lm@250mA_P=8.3639W_I=249.9mA

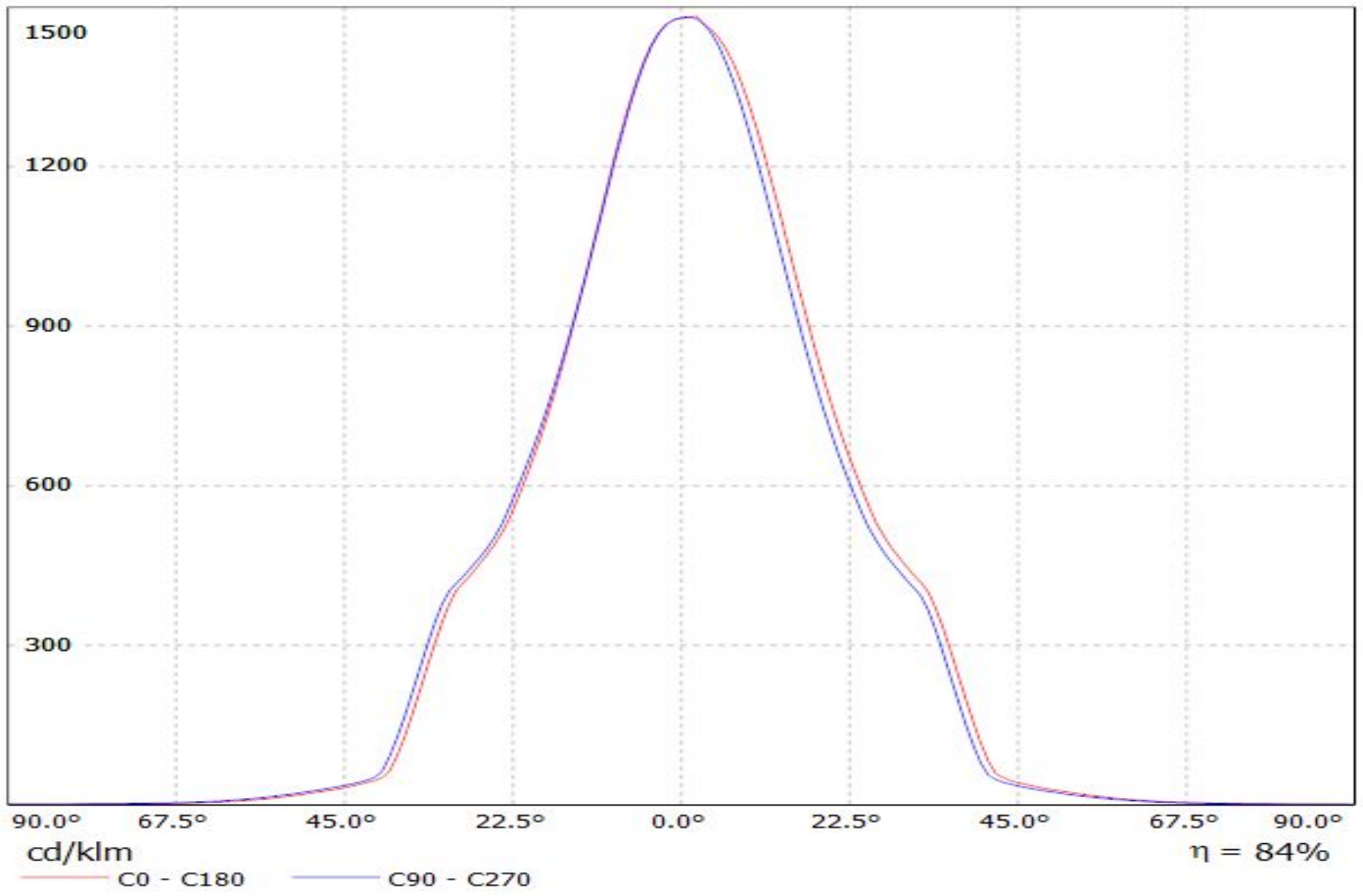


Luminaire: LEDiL Oy F13381_ANGELA-W_(STARK_LES23) Eff.84.4%
Lamps: 1 x Tridonic_STARK_SLE_G3_LES23_802.87lm@250mA_P=8.2452W_I=249.9mA

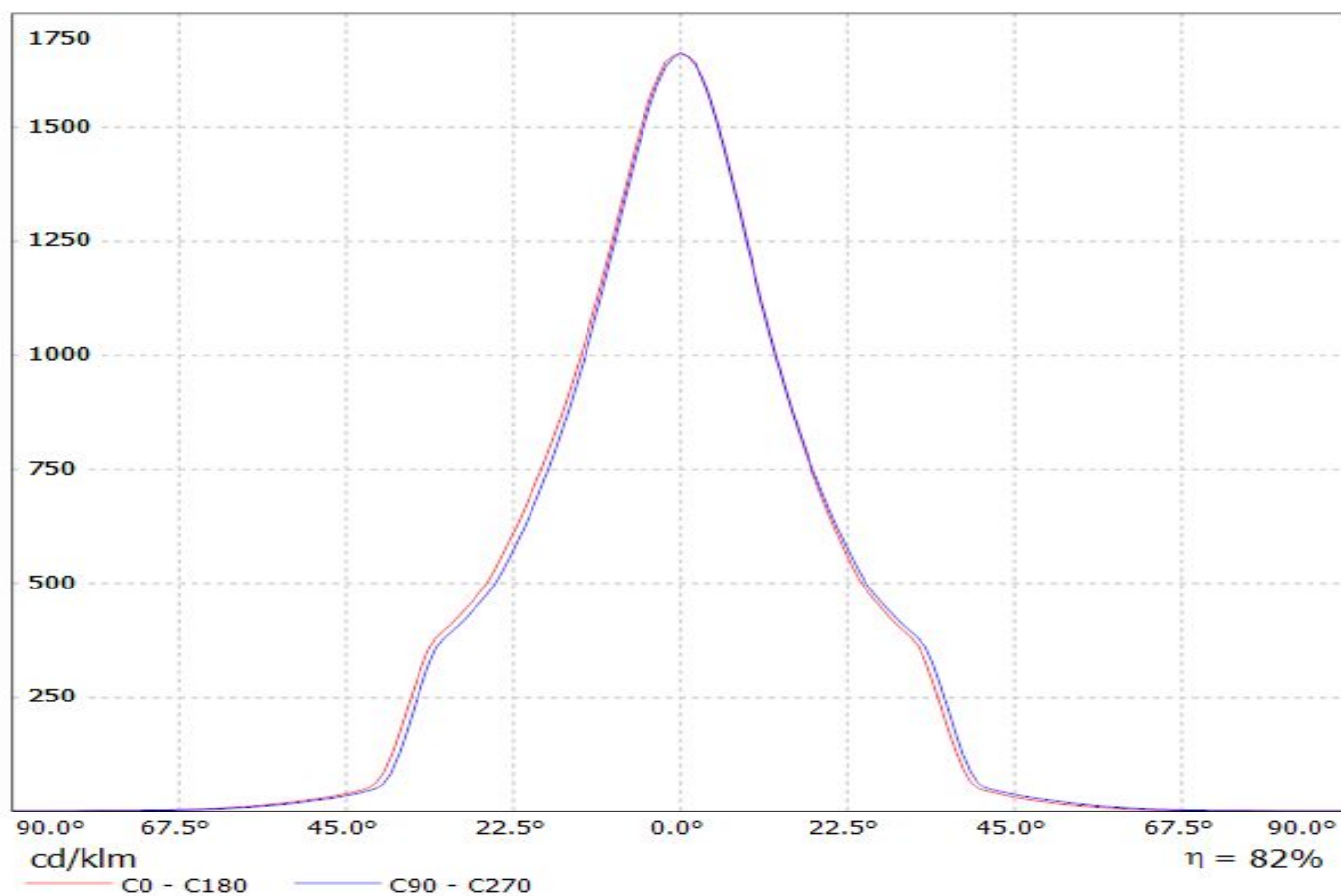


Luminaire: LEDiL Oy F13381_ANGELA-W (SLE_G4_LES23)

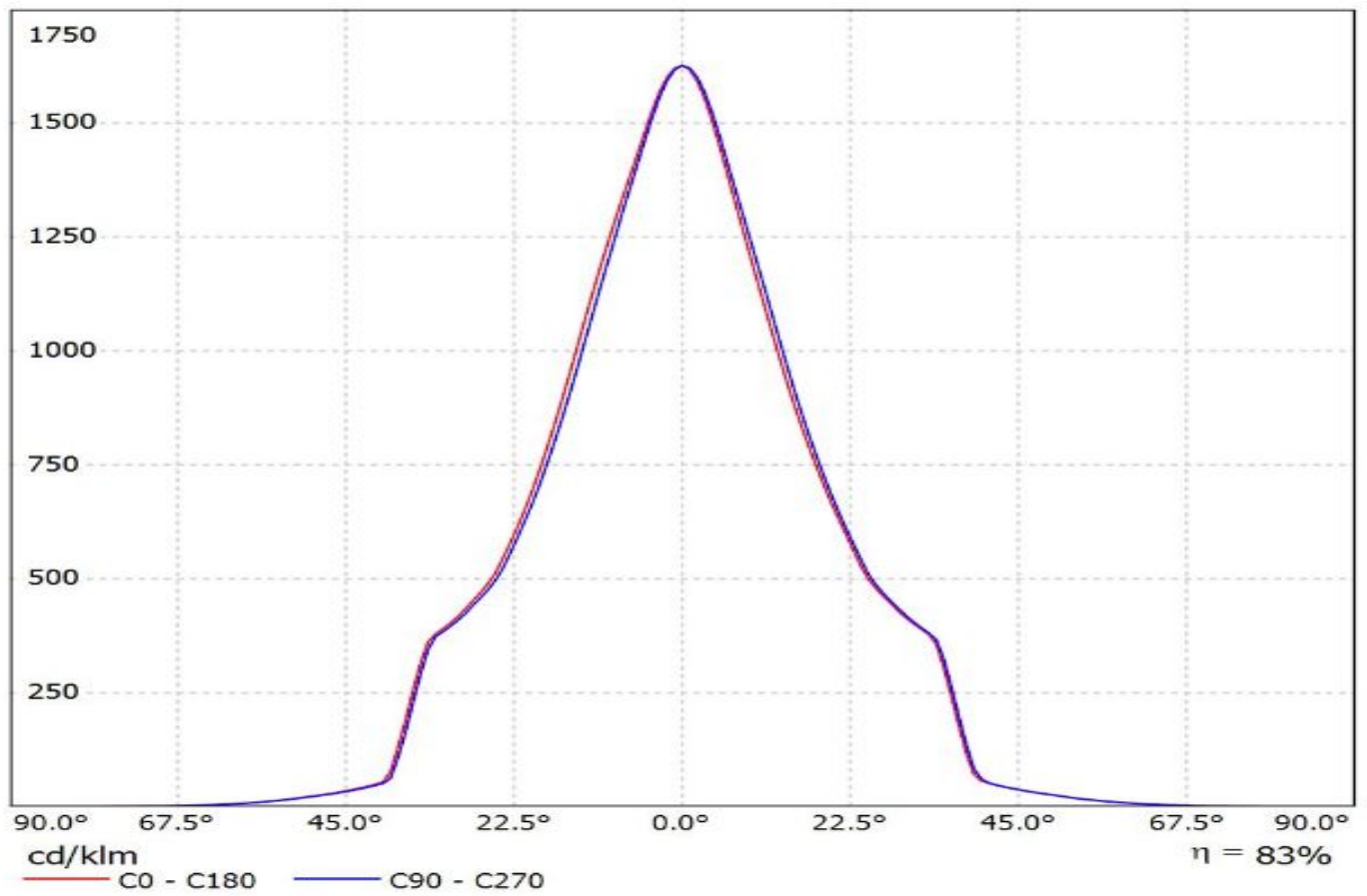
Lamps: 1 x Tridonic_SLE_G4_LES23_1354.57lm@250mA_P=8.18744W_I=0.2498A



Luminaire: LEDiL Oy F13381_ANGELA-W_(SLE GEN4 LES19)
Lamps: 1 x SLE GEN4 LES19_1227.01lm@250mA_P=8.21492W_I=0.2498A

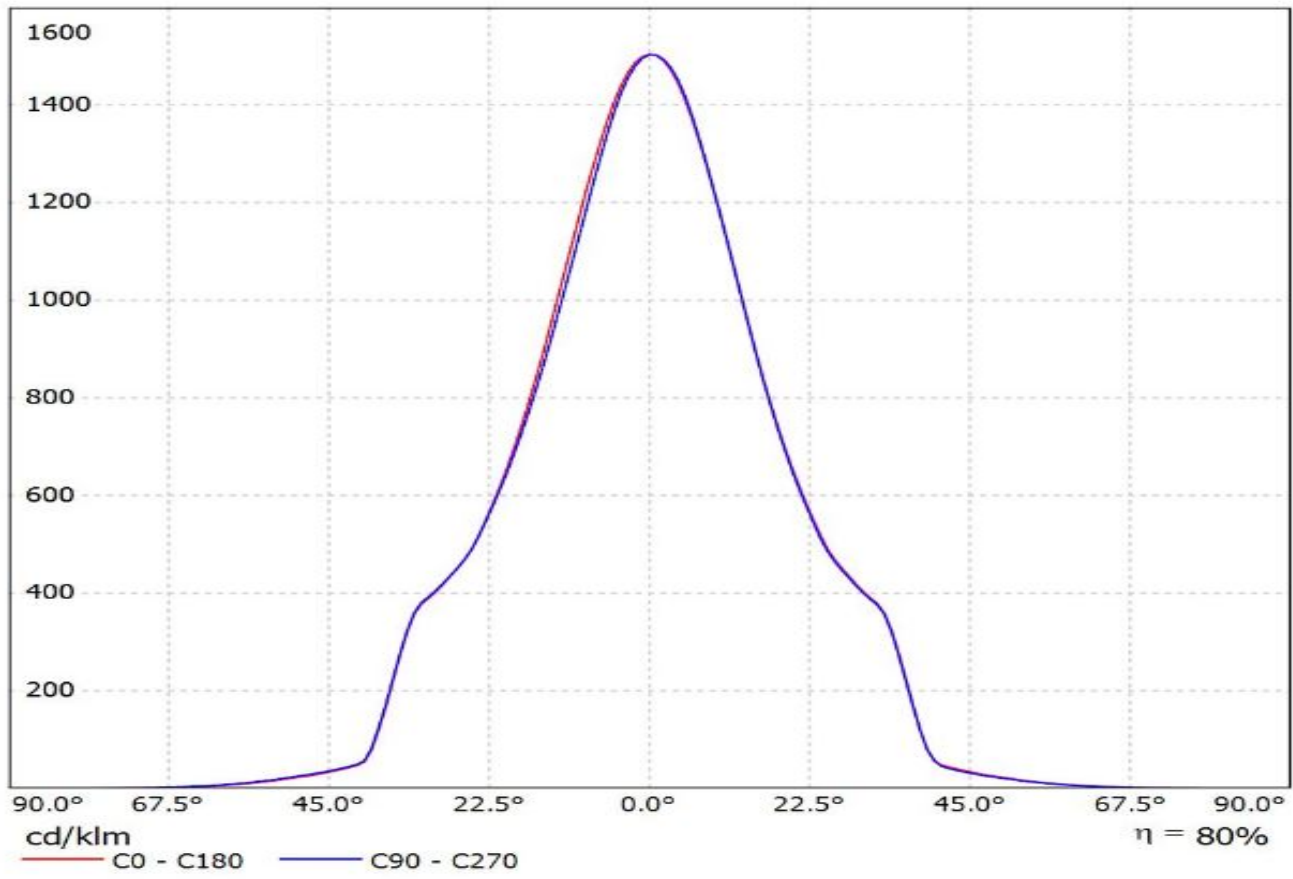


Luminaire: LEDiL Oy F13381_ANGELA-W_(SLE-G5_LES-15)
Lamps: 1 x Tridonic_SLE-G5_LES-15_1238lm@250mA_P=8.6575W_I=0.250A



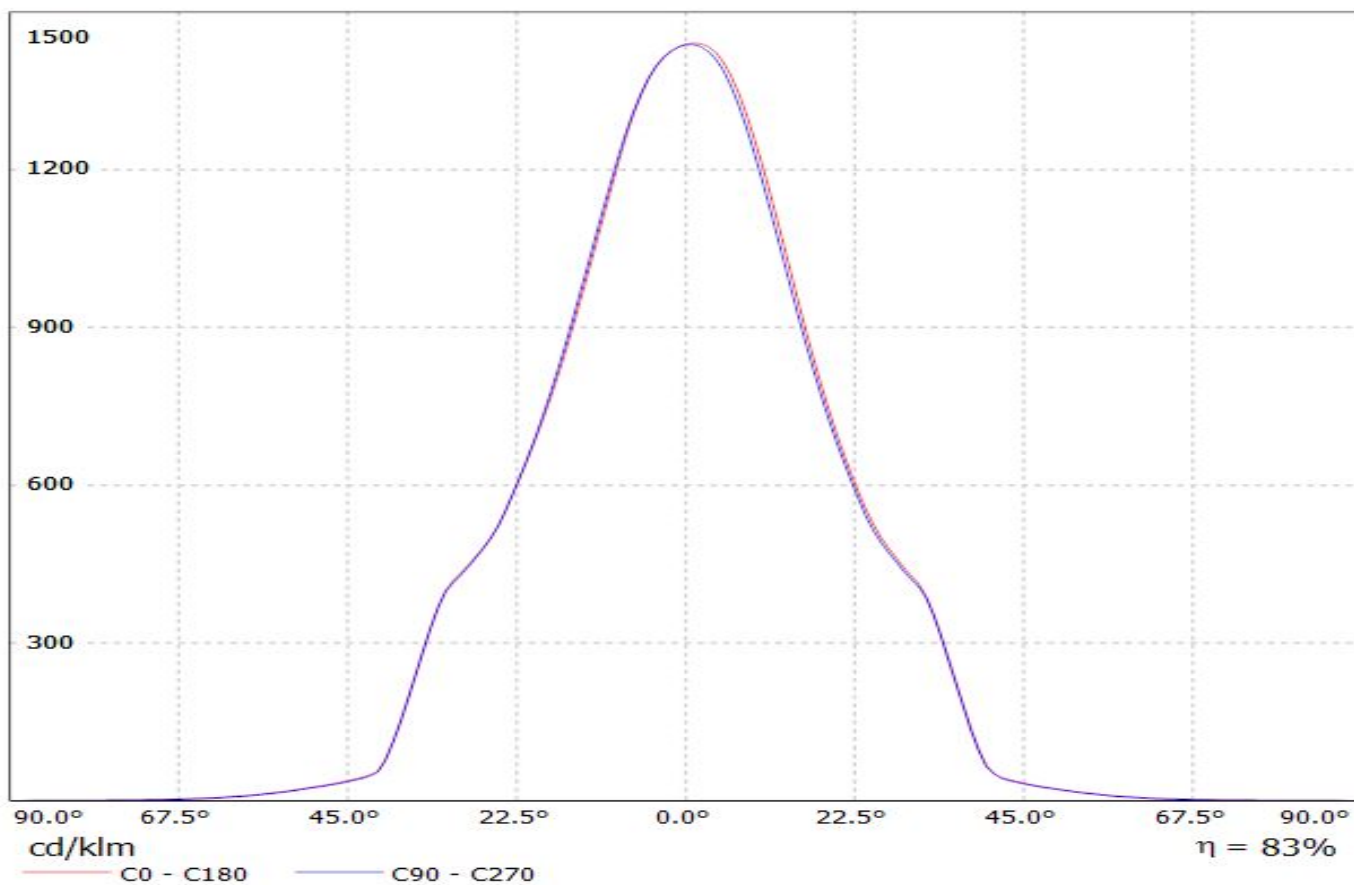
Luminaire: LEDiL Oy F13381_ANGELA-W_(SLE-G5_LES-19)

Lamps: 1 x Tridonic_SLE-G5_LES-19_1334.47lm@250mA_P=8.2224W_I=0.250A

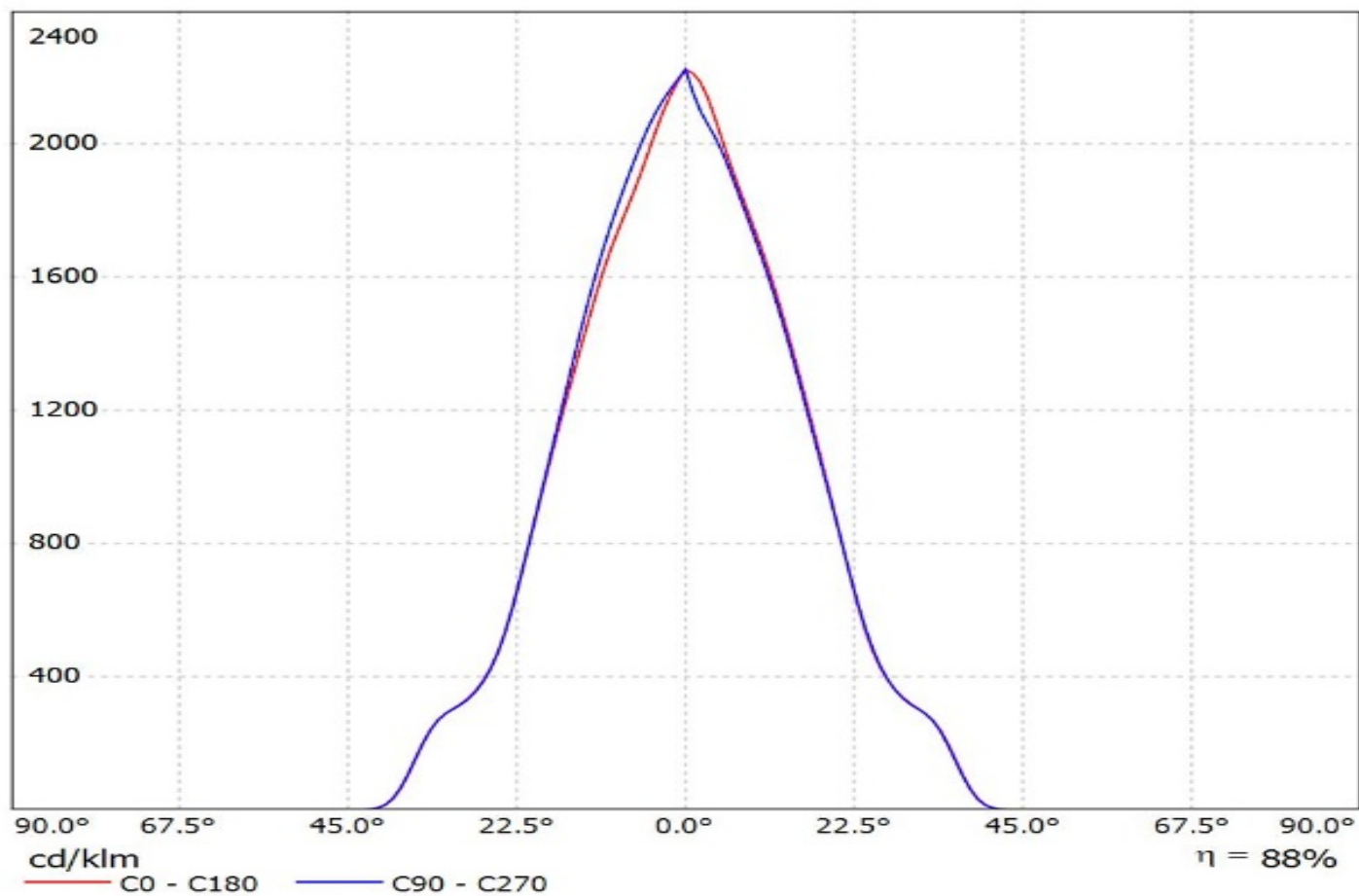


Luminaire: LEDiL Oy F13381_ANGELA-W_(SLE-G5_LES-23)

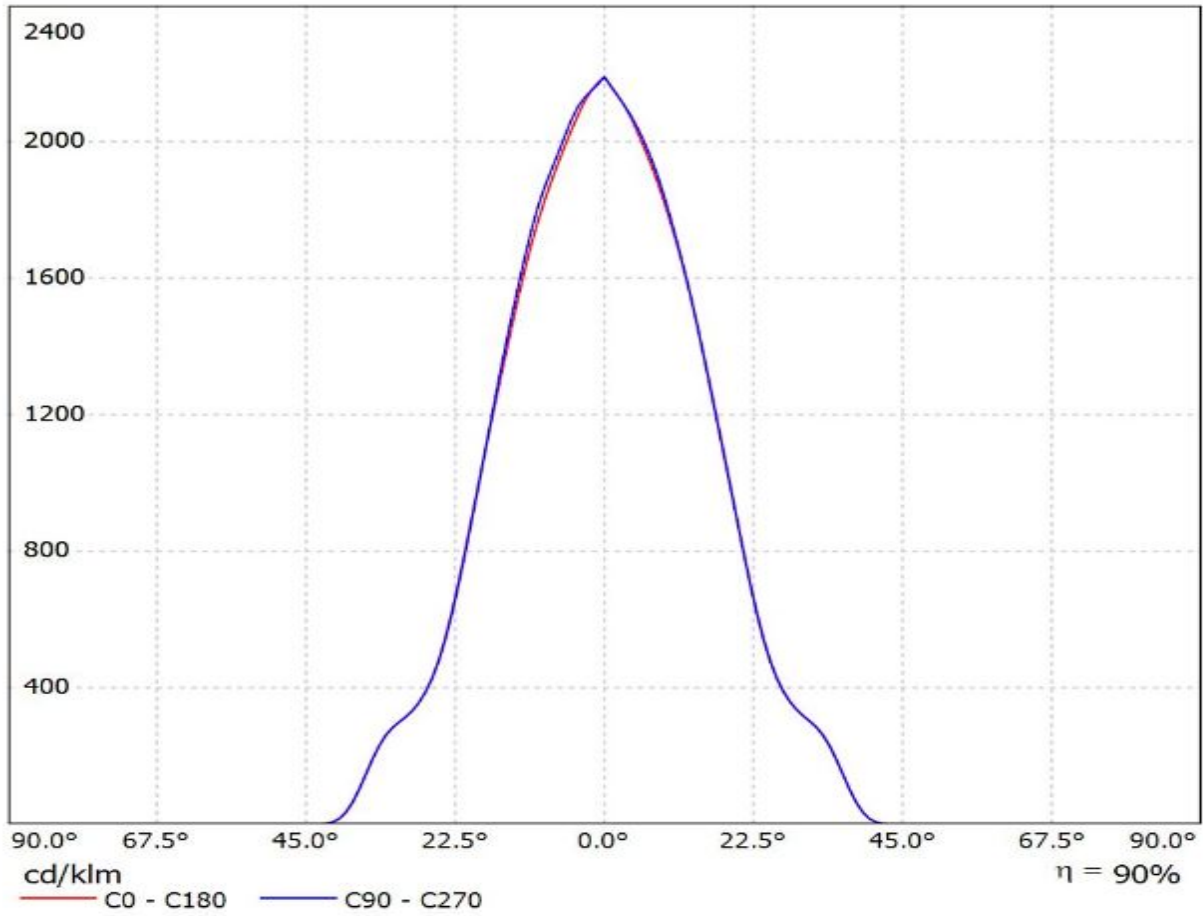
Lamps: 1 x Tridonic_SLE-G5_LES-23_1303.96lm@250mA_P=8.1062W_I=0.250A



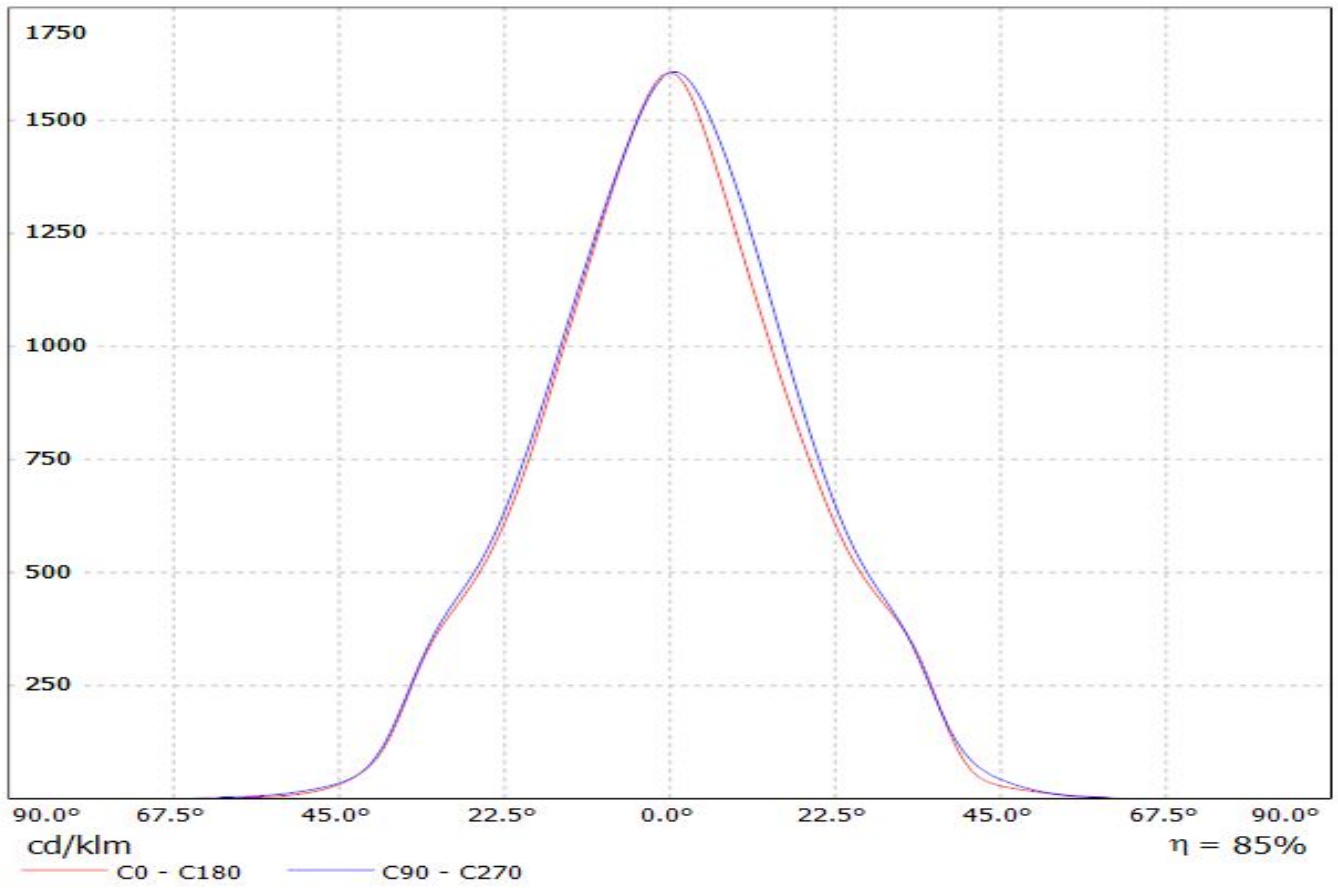
Luminaire: Ledil Oy F13381_ANGELA-W_(SLE_G6_LES15)_(2213254-2_+ 2213194-1)_SIMULATED
Lamps: 1 x Tridonic SLE G5 LES15 + Tyco Electronics 2213254-2 + TE 2213194-1 optic clip



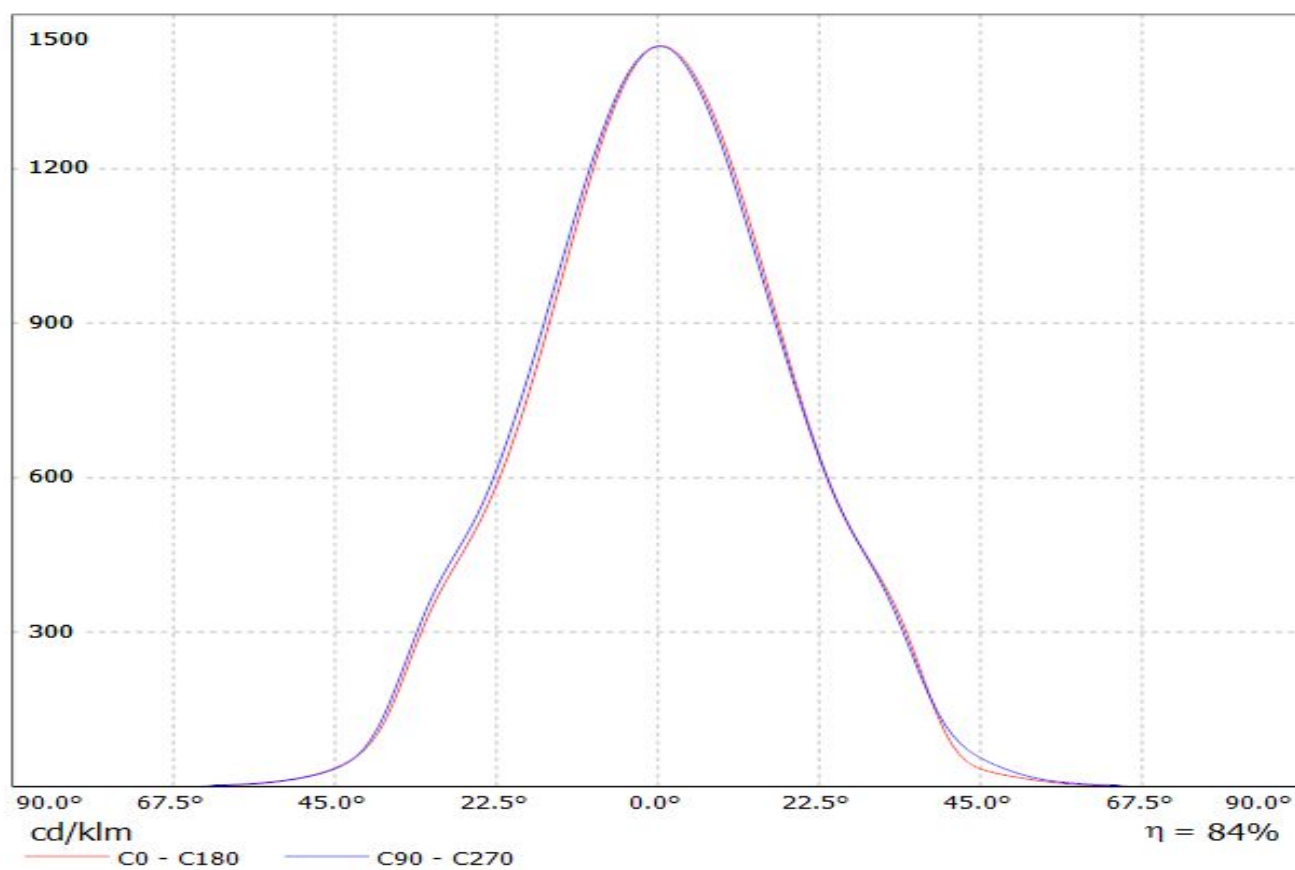
Luminaire: Ledil Oy F13381_ANGELA-W+_TE_2213254-2+_TE_Z50_Type1_TRIDONIC_SLE_G6_LES17_SIMULATED
Lamps: 1 x TRIDONIC SLE G6 LES17



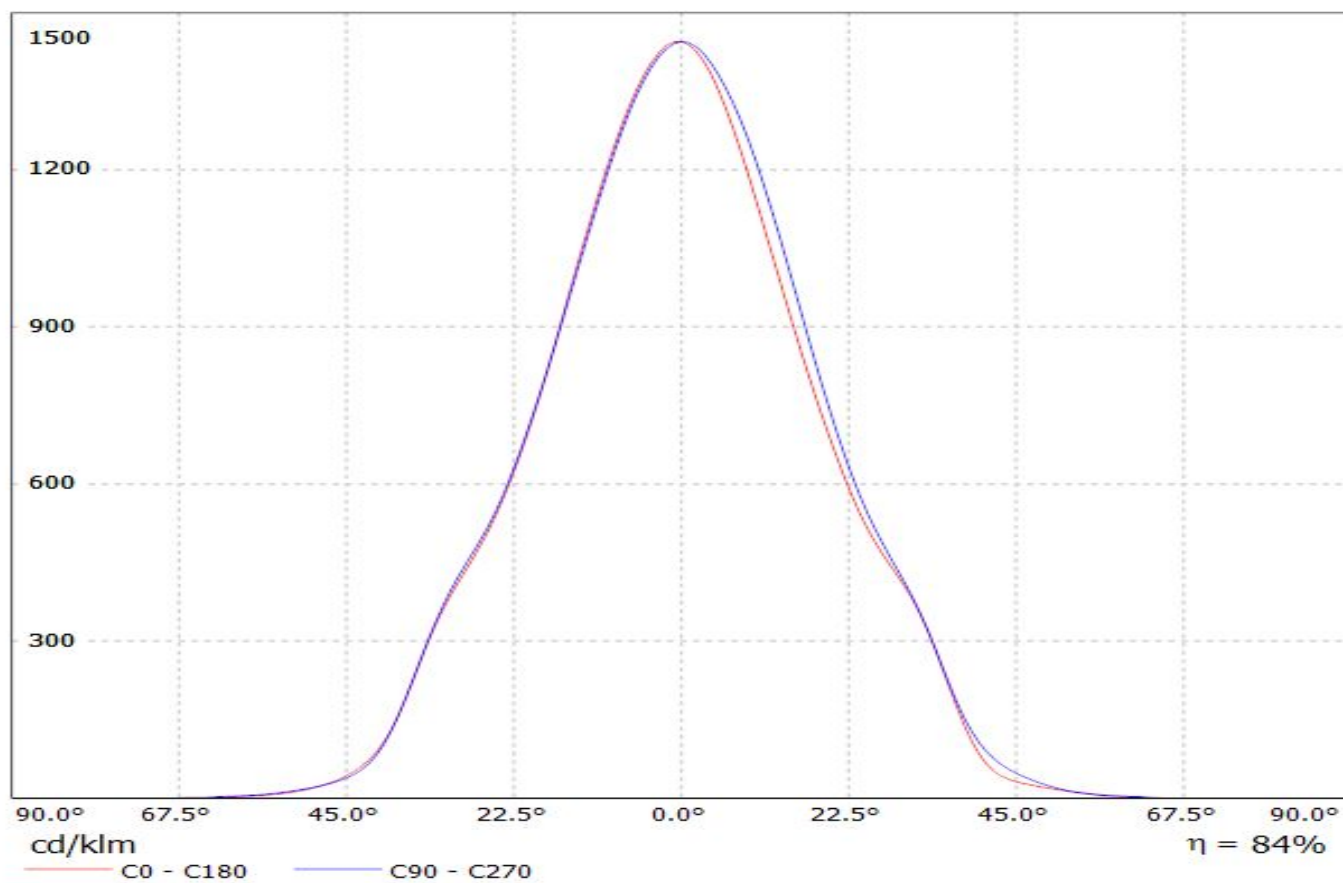
Luminaire: LEDiL F13381_ANGELA-W_(WU-M-461)
Lamps: 1 x Vossloh-Schwabe WU-M-461-827 767lm@250mA



Luminaire: LEDiL F13381_ANGELA-W_(WU-M-462)
Lamps: 1 x Vossloh-Schwabe WU-M-462-827 1140lm@250mA

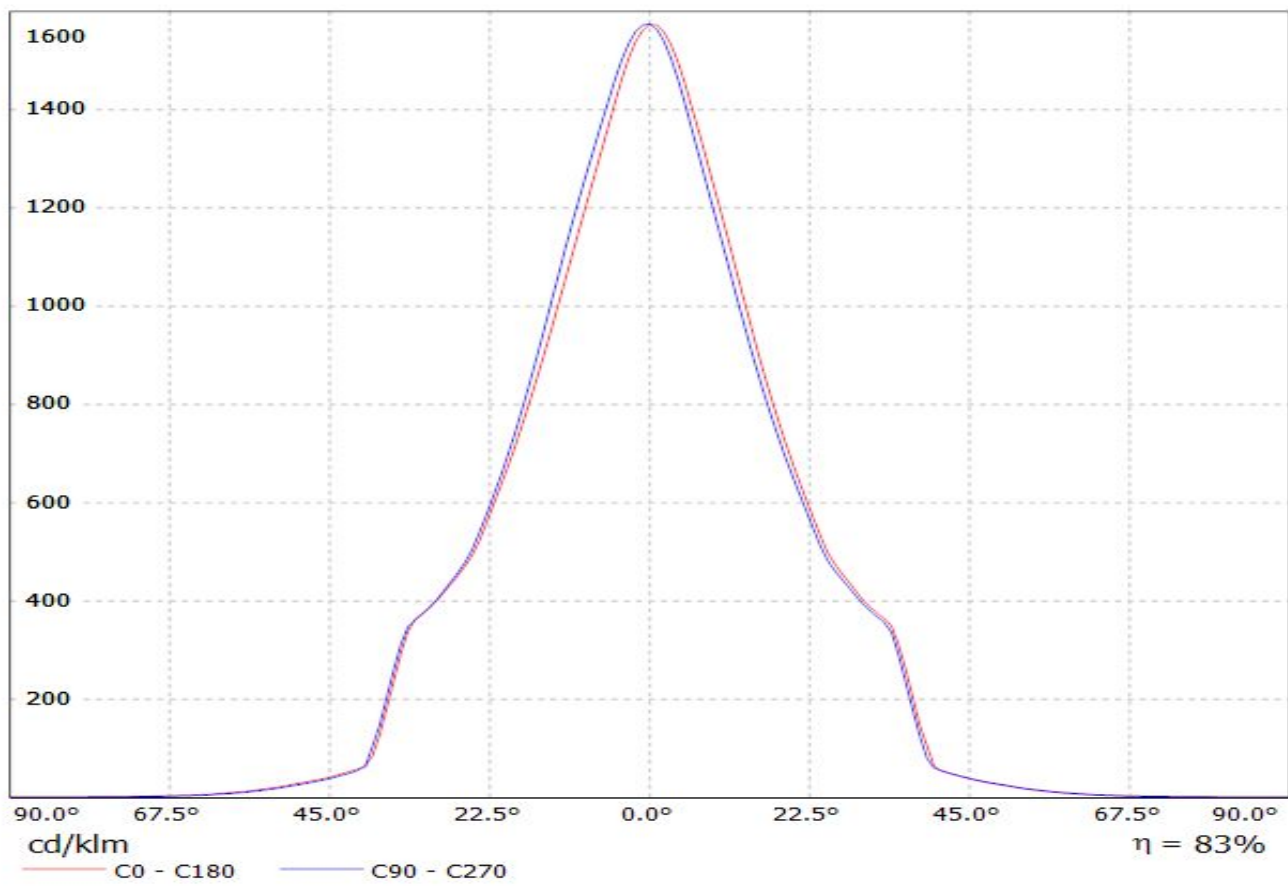


Luminaire: LEDiL F13381_ANGELA-W_(WU-M-464)
Lamps: 1 x Vossloh-Schwabe WU-M-464-827 1480lm@250mA



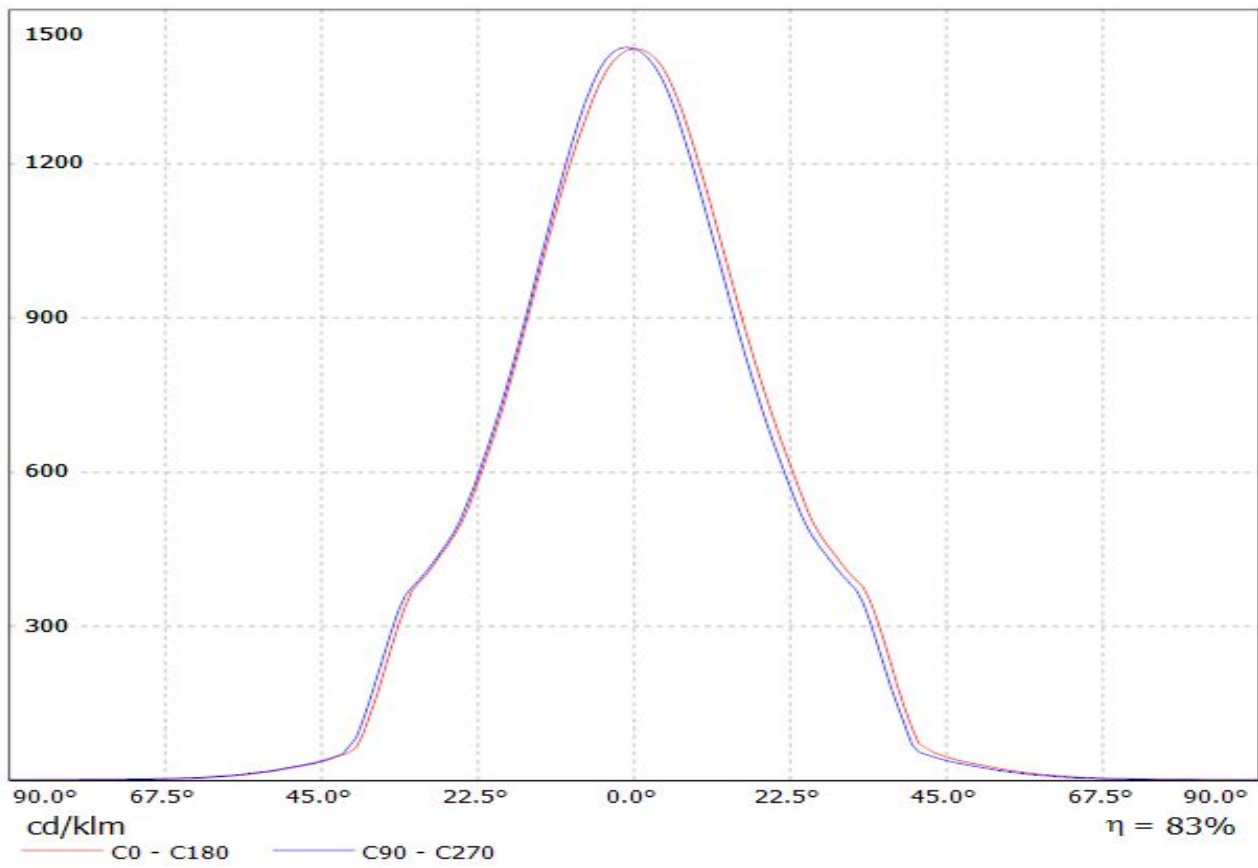
Luminaire: LEDiL Oy F13381_ANGELA-W_(WU-M-484)

Lamps: 1 x Vossloh_Schwabe-WU-M-484_(WU-M-484-830)_657.721lm@250mA_P=5.59451W_I=249.9mA

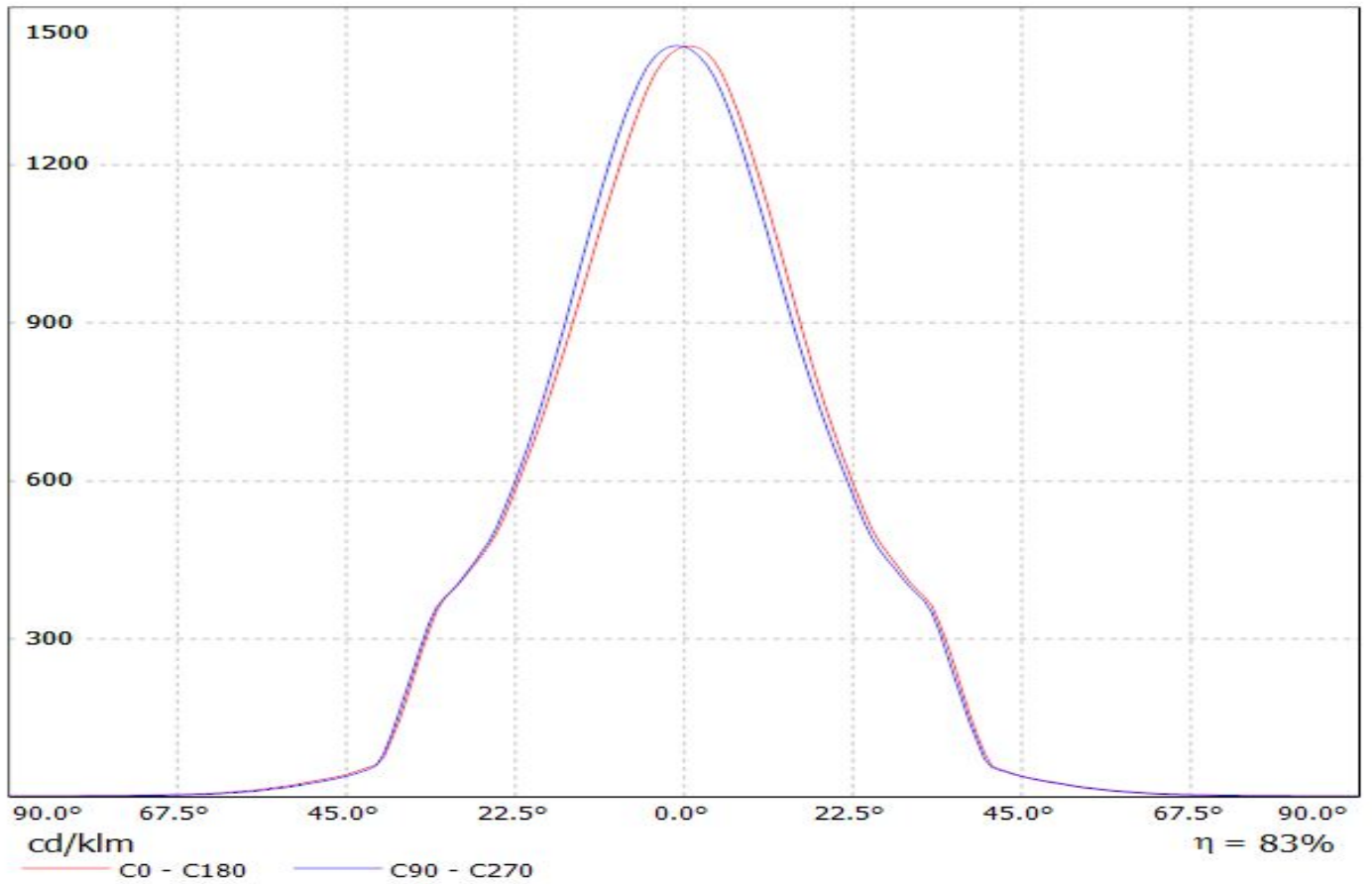


Luminaire: LEDiL Oy F13381_ANGELA-W_(WU-M-485)

Lamps: 1 x Vossloh_Schwabe-WU-M-485_(WU-M-485-830)_1209.62lm@250mA_P=8.43849W_I=249.8mA

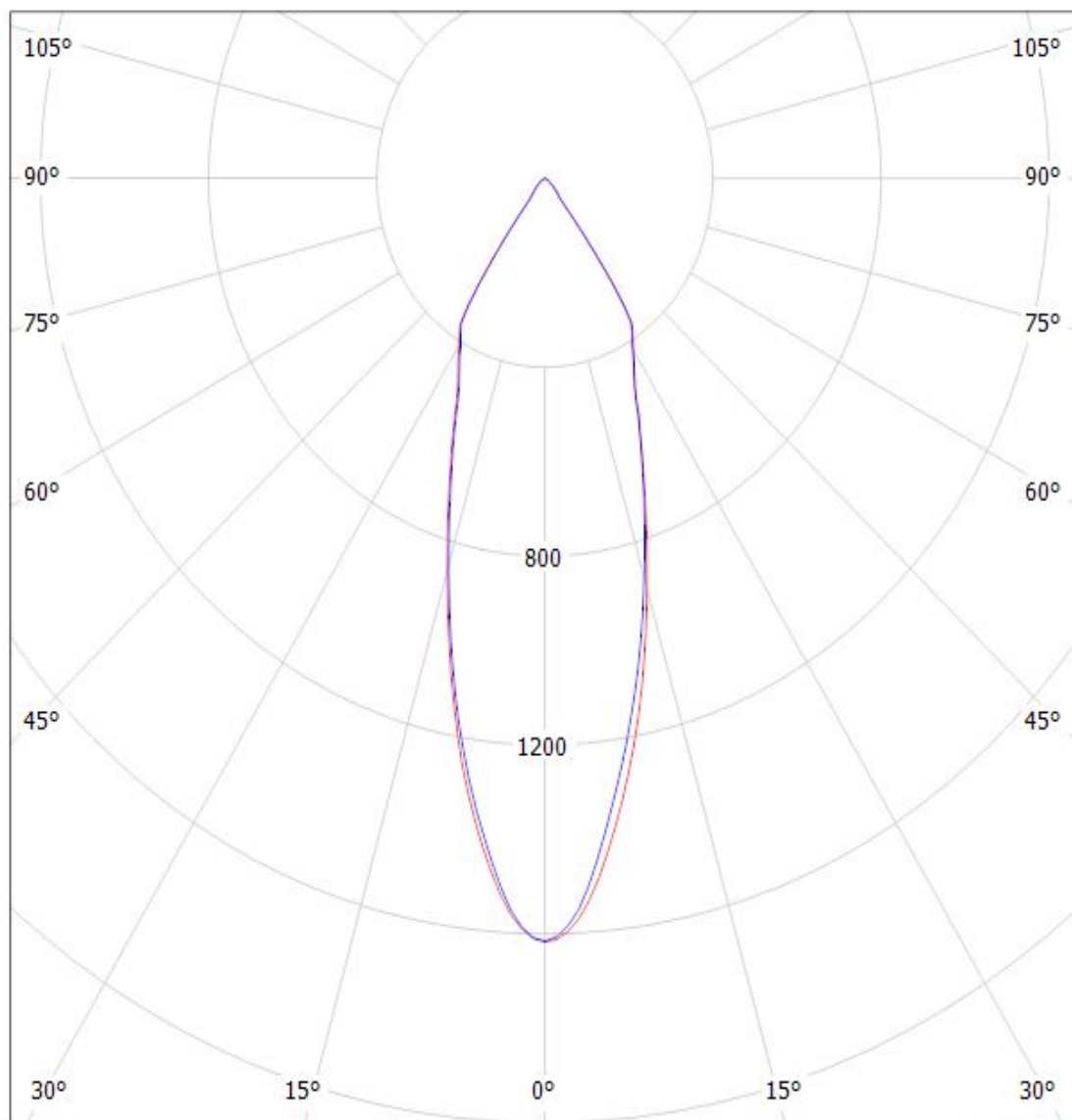


Luminaire: LEDiL Oy F13381_ANGELA-W_(WU-M-486) Eff.83.2%
Lamps: 1 x Vossloh_Schwabe-WU-M-486_(WU-M-486-830)
_1474.55lm@250mA_P=10.4456W_I=249.8mA



Luminaire: LEDiL Oy F13381_ANGELA-W_(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

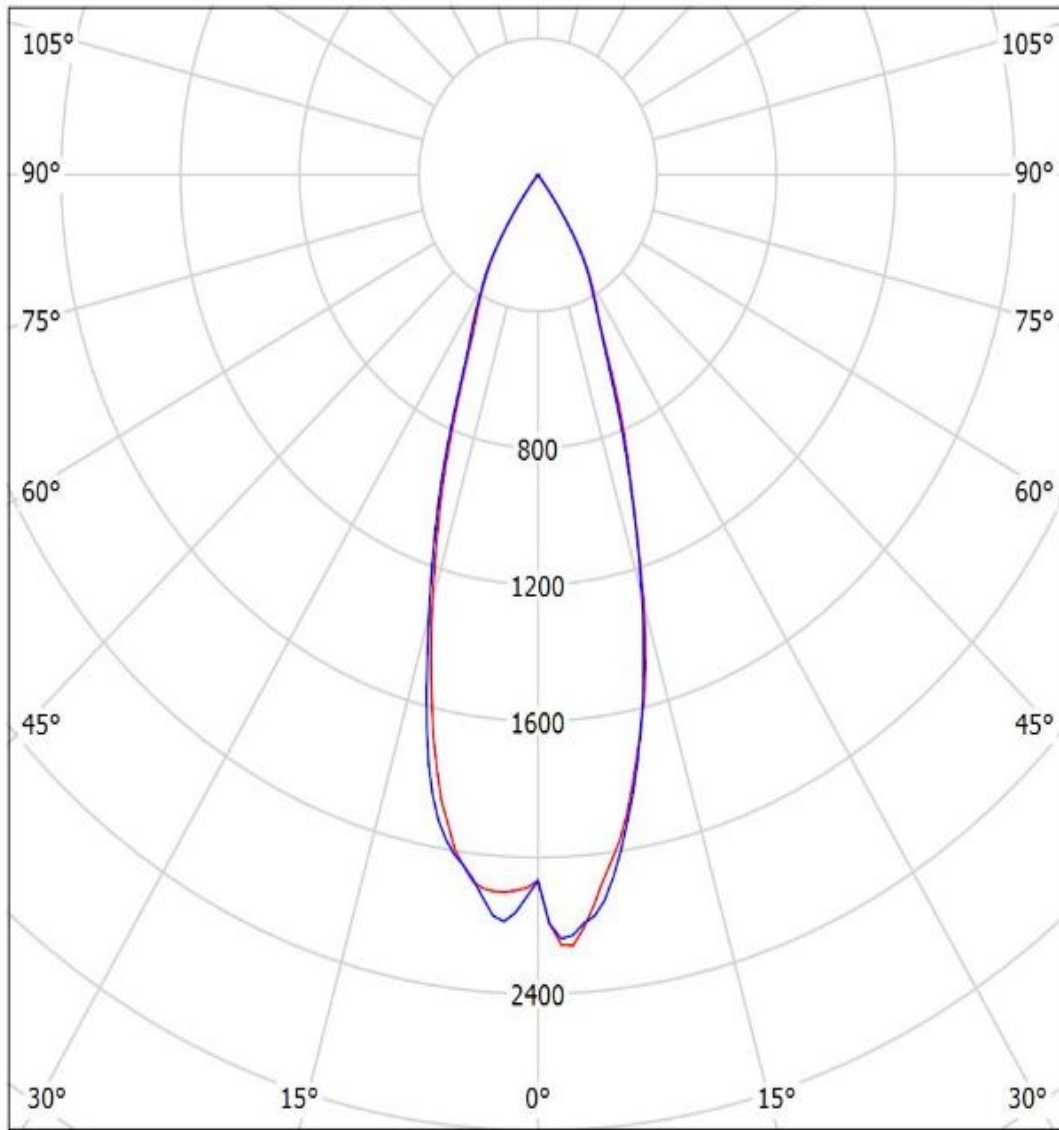


cd/klm

$\eta = 82\%$

— C0 - C180 — C90 - C270

Luminaire: Ledil Oy F13381_ANGELA-W_Bridgelux_V22_Gen7_SIMULATED F13381_ANGELA-W_Bridgelux_V22_Gen7_SIMULATED
Lamps: 1 x F13381_ANGELA-W_Bridgelux_V22_Gen7_SIMULATED



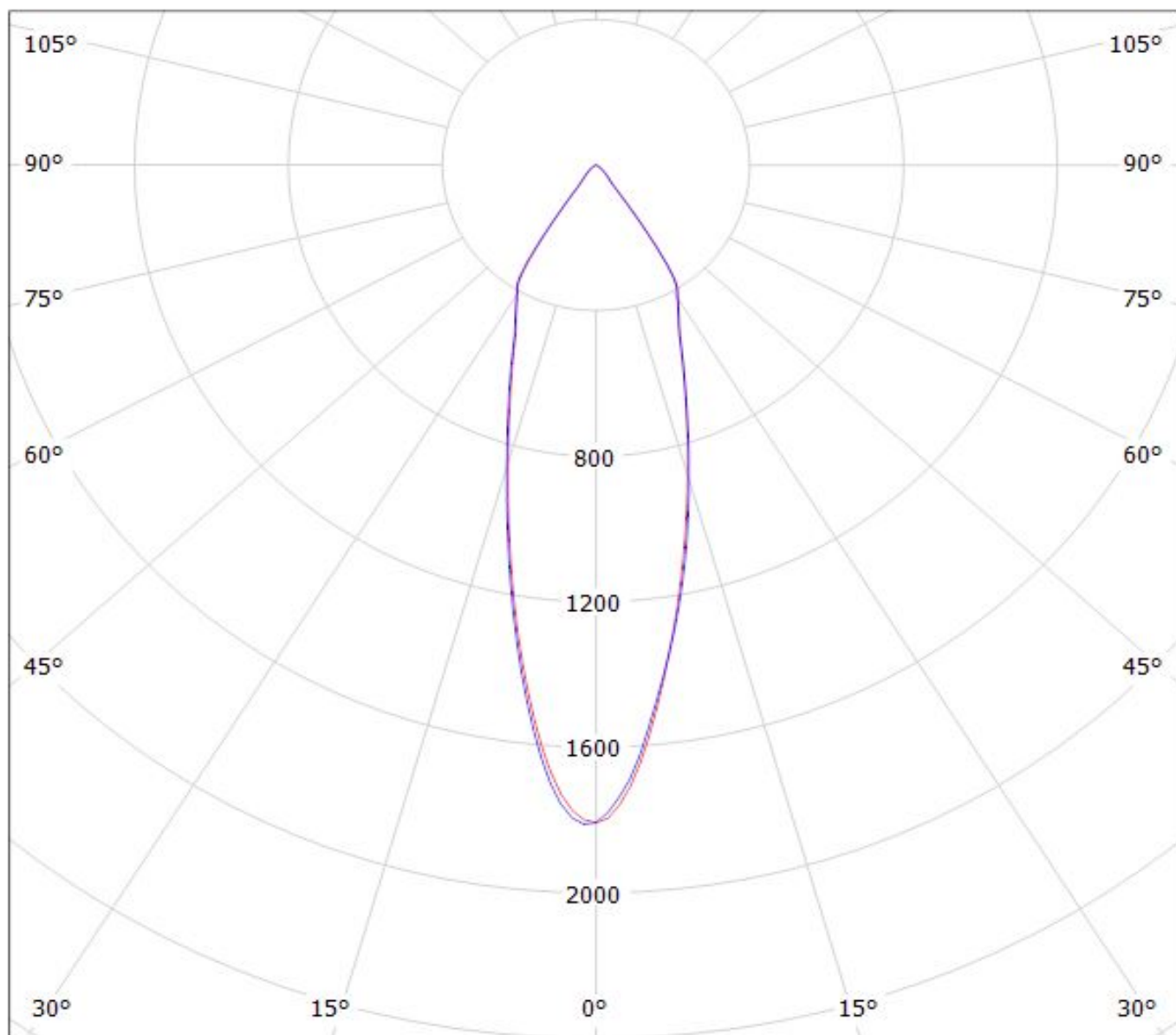
cd/klm

— C0 - C180 — C90 - C270

$\eta = 93\%$

Luminaire: LEDiL Oy F13381_ANGELA-W_(CLL030)

Lamps: 1 x Citizen_CLL030_(CLL030-1206A1-303M1A2)_971.531lm@250mA_P=8.42026W_I=249.8mA

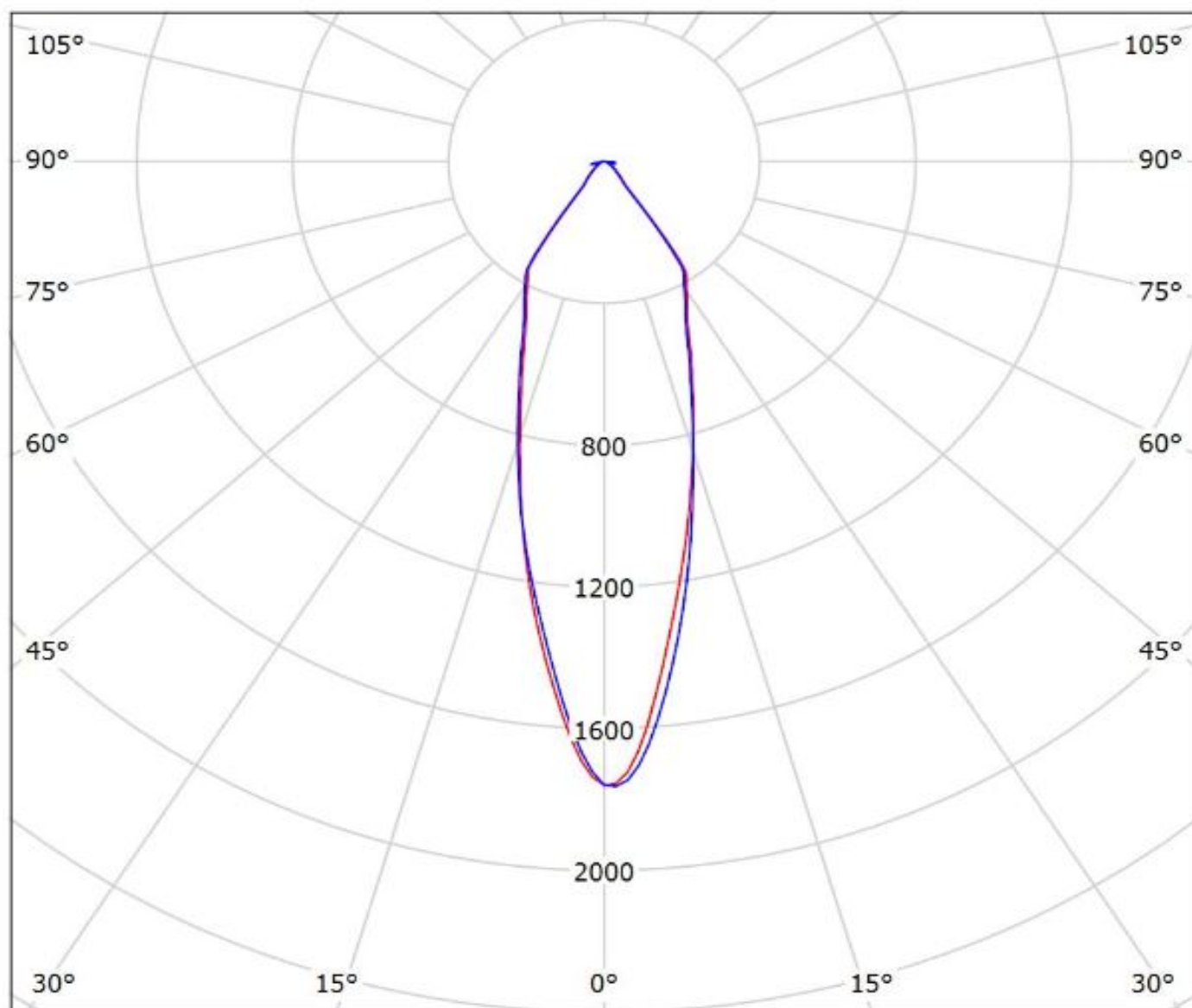


cd/klm

$\eta = 83\%$

— C0 - C180 — C90 - C270

Luminaire: Ledil F13381_ANGELA-W_(CLU720)
Lamps: 1 x CITIZEN_CLU720_(CLU720-1206B8-273M2)
_1337.27lm@250mA_CCT=2700K_P=8.35W_I=0.25A



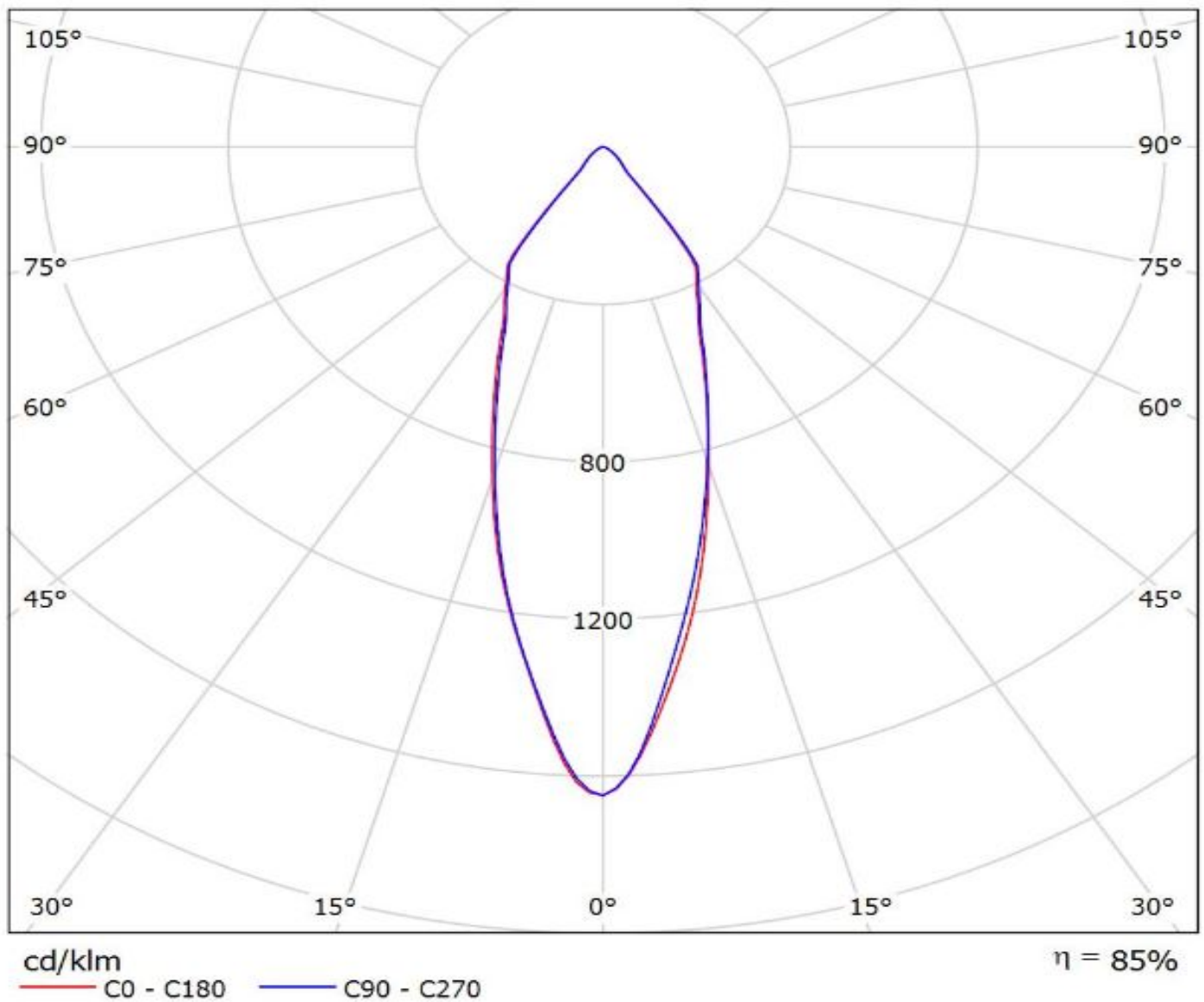
cd/klm

— C0 - C180 — C90 - C270

$\eta = 85\%$

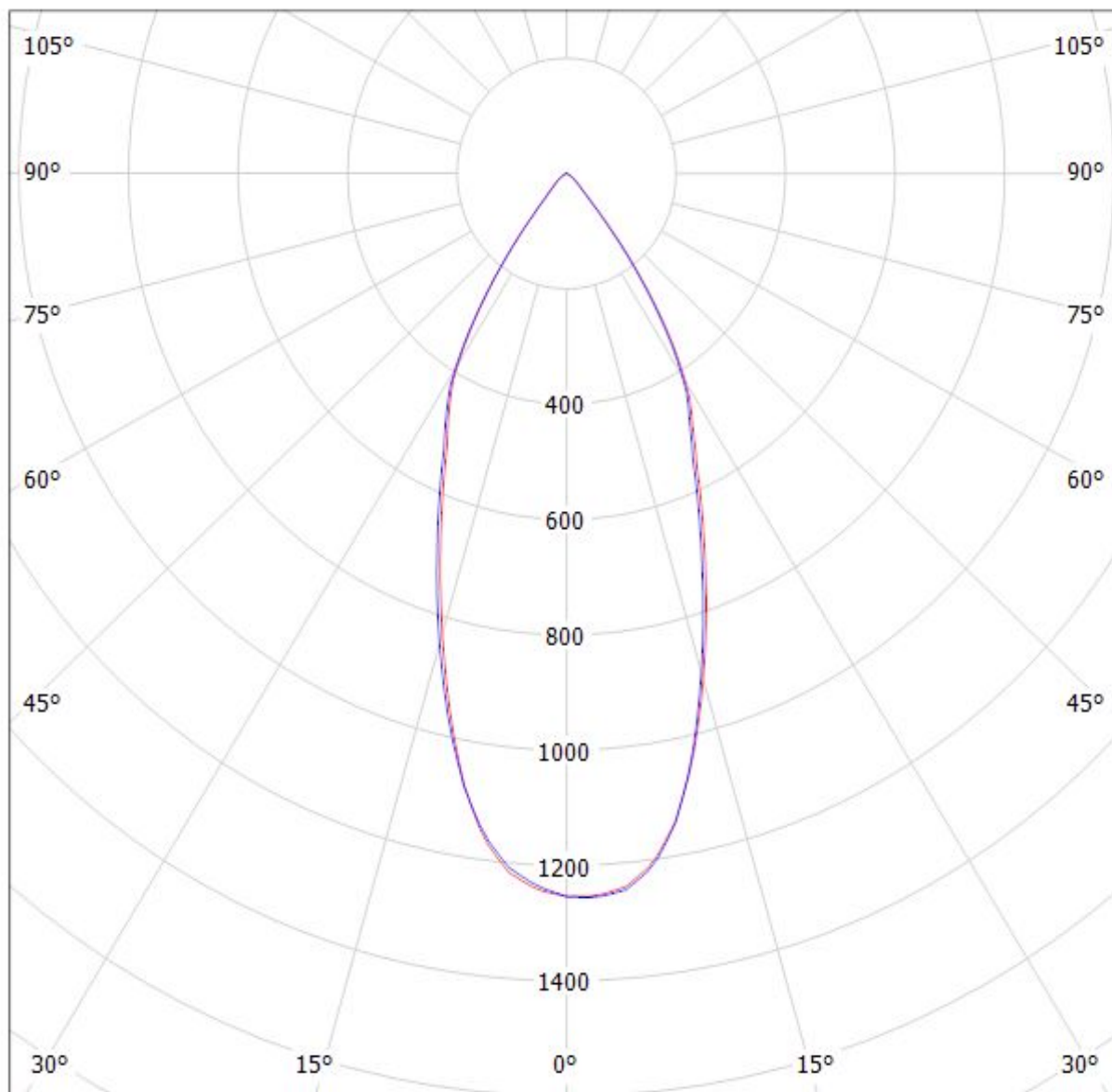
Ledil F13381_ANGELA-W_(CLU720) / LDC (Polar)

Luminaire: Ledil F13381_ANGELA-W_(CLU720)
Lamps: 1 x CITIZEN_CLU720_(CLU720-1206B8-273M2)
_1344.79lm@250mA_CCT=2700K_P=8.35W_I=0.25A



Luminaire: LEDiL Oy F13381_ANGELA-W_(CXA3590)

Lamps: 1 x CREE_CXA3590_(CXA3590-30F-BD-R0H-0002)_2640.14lm@250mA_CCT=3000K_P=16.3941W_I=249.8mA



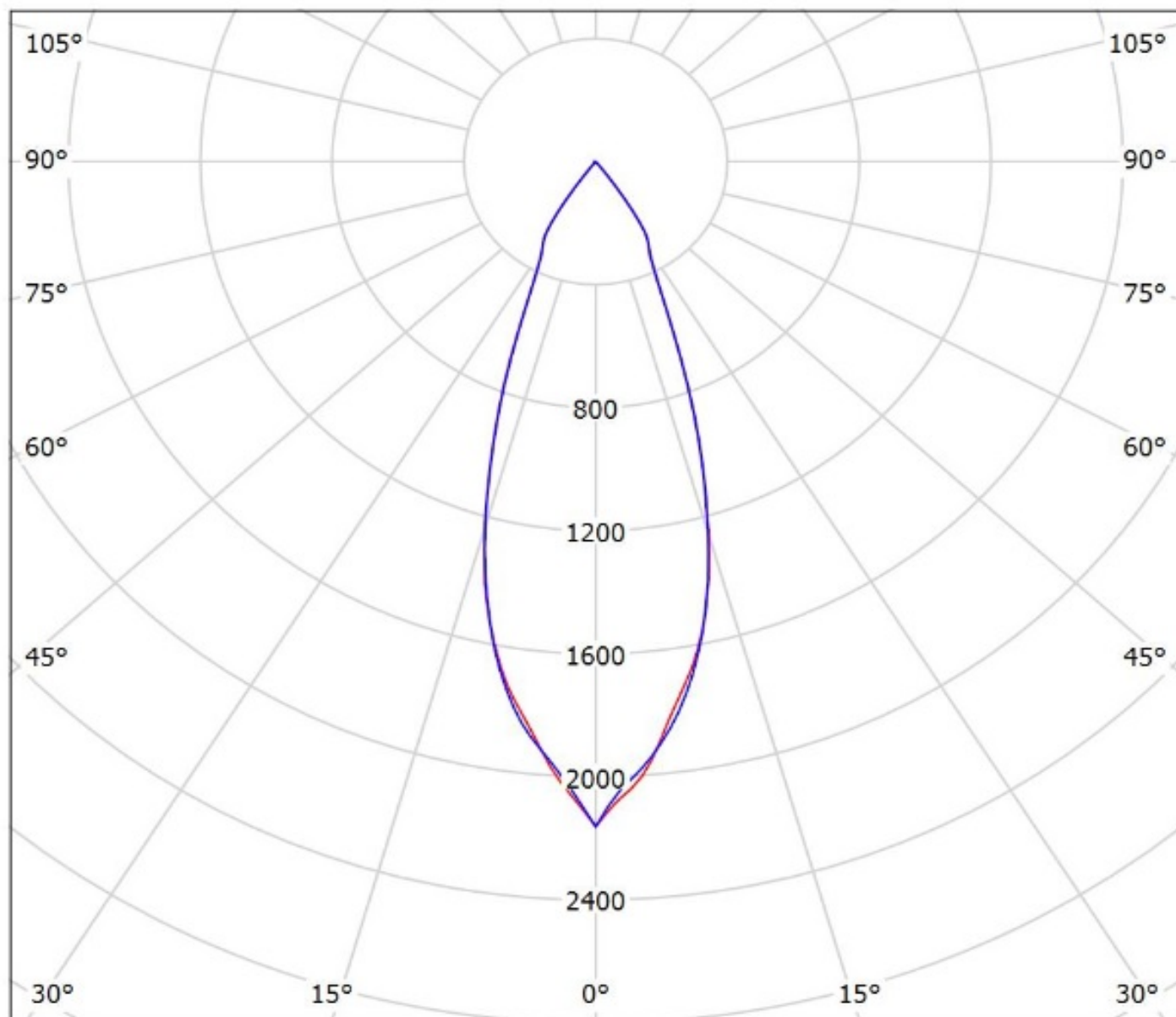
cd/klm

— C0 - C180

— C90 - C270

$\eta = 84\%$

Luminaire: Ledil Oy F13381_ANGELA-W_(CXB1830)_(TE_2213401-2+TE_2213194-1)_SIMULATED
Lamps: 1 x Cree CXB1830 + Tyco Electronics 2213401-2 + TE 2213194-1

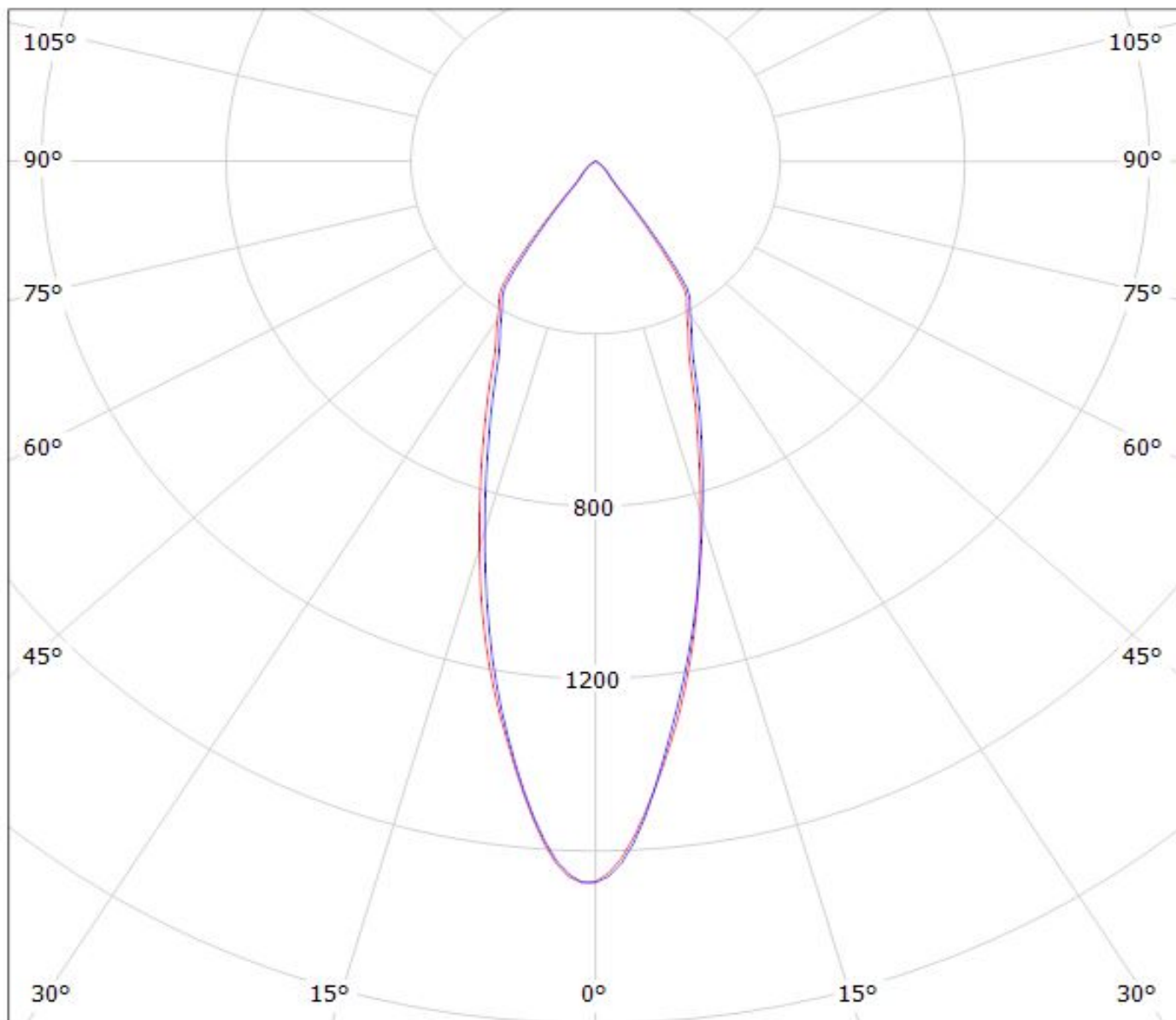


cd/klm

— C0 - C180 — C90 - C270

$\eta = 87\%$

Luminaire: LEDiL Oy F13381_ANGELA-W_(COB_1205) Eff.83.8%
Lamps: 1 x Luxeon_COB_1205_1092.75lm@250mA_P=8.33092W_I=249.9mA

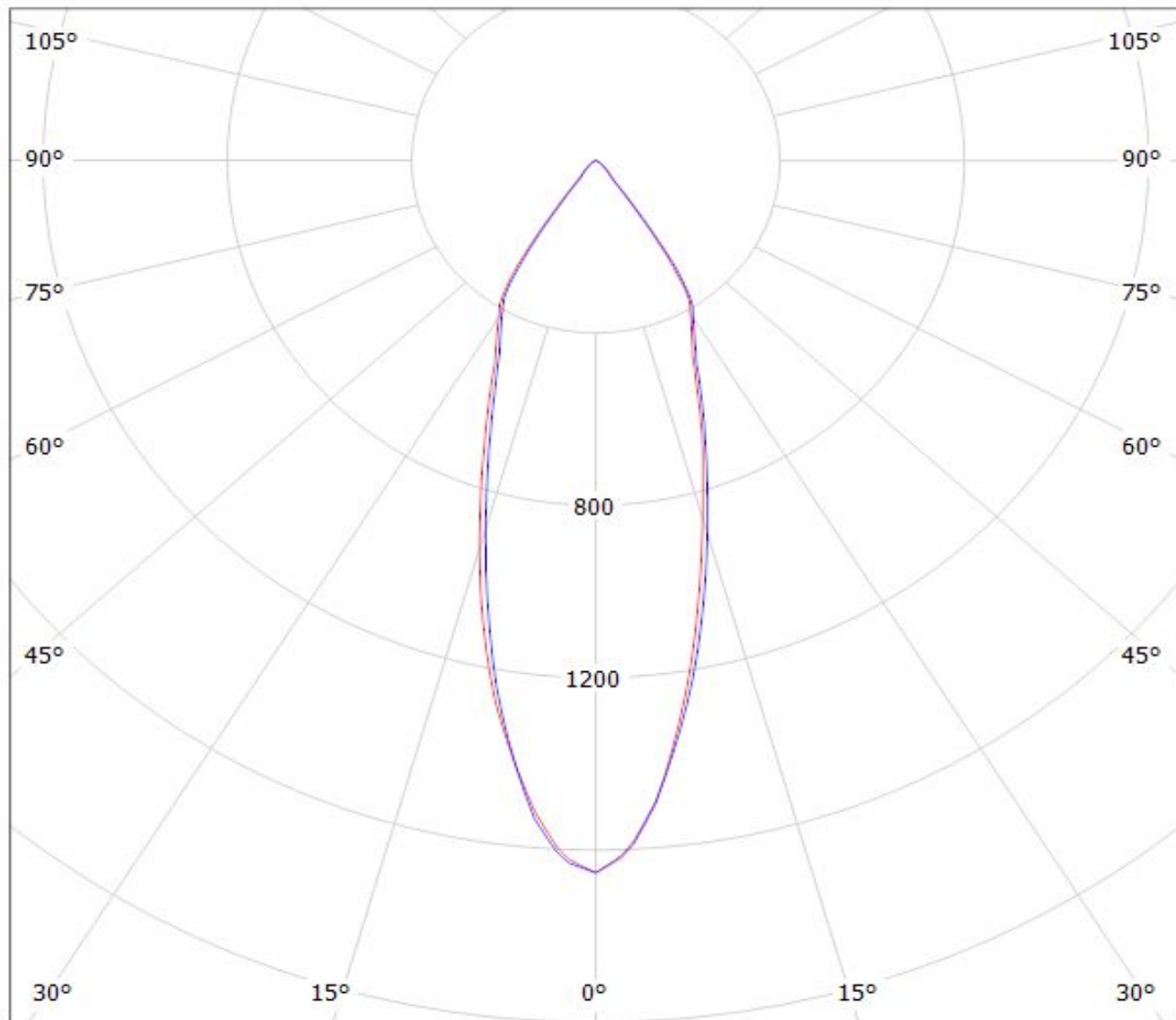


cd/klm

— C0 - C180 — C90 - C270

$\eta = 84\%$

Luminaire: LEDiL Oy F13381_ANGELA-W_(COB_1208) Eff.83.8%
Lamps: 1 x Luxeon_COB_1208_1039.97lm@250mA_P=8.28793W_I=249.9mA

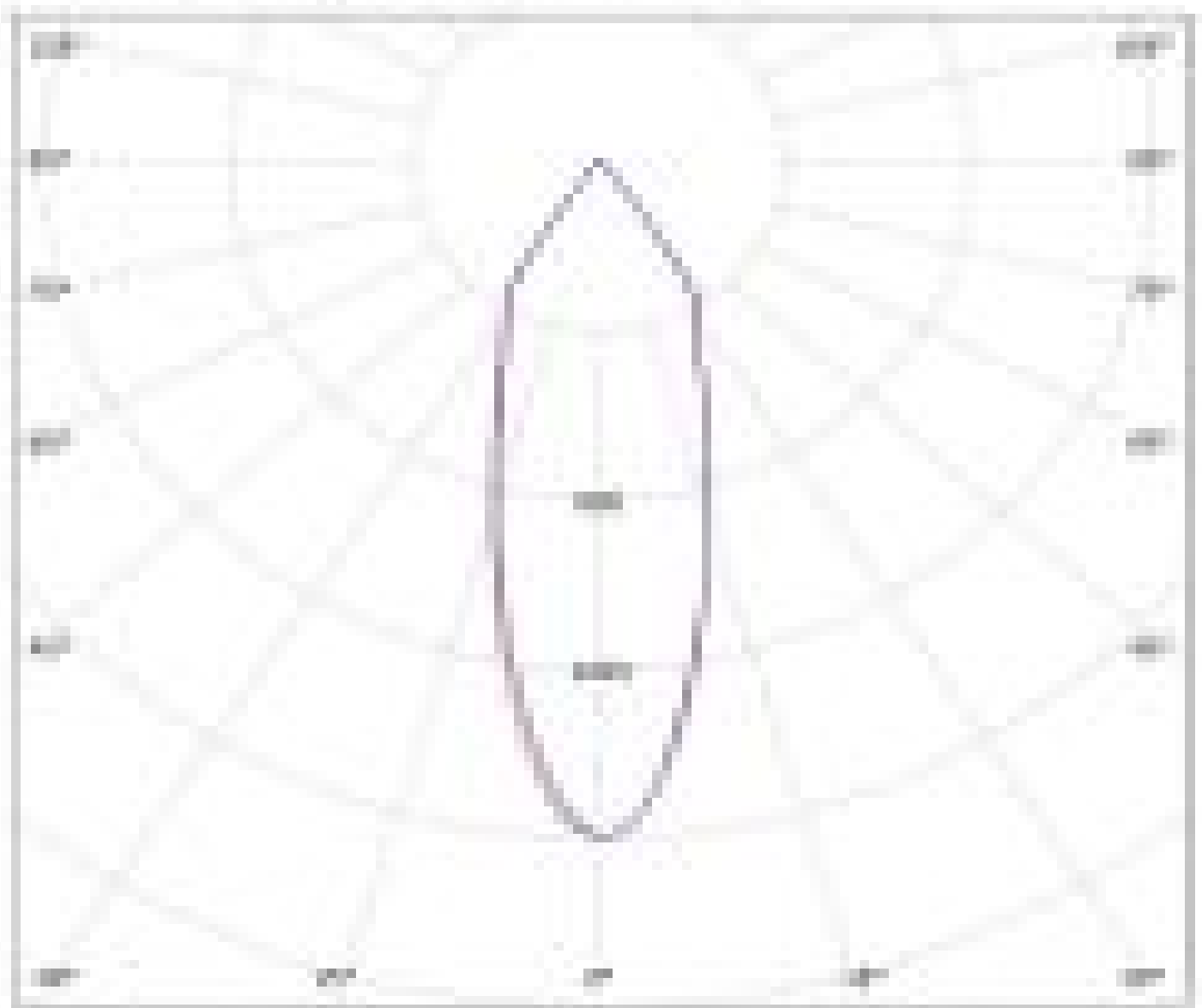


cd/klm

$\eta = 84\%$

— C0 - C180 — C90 - C270

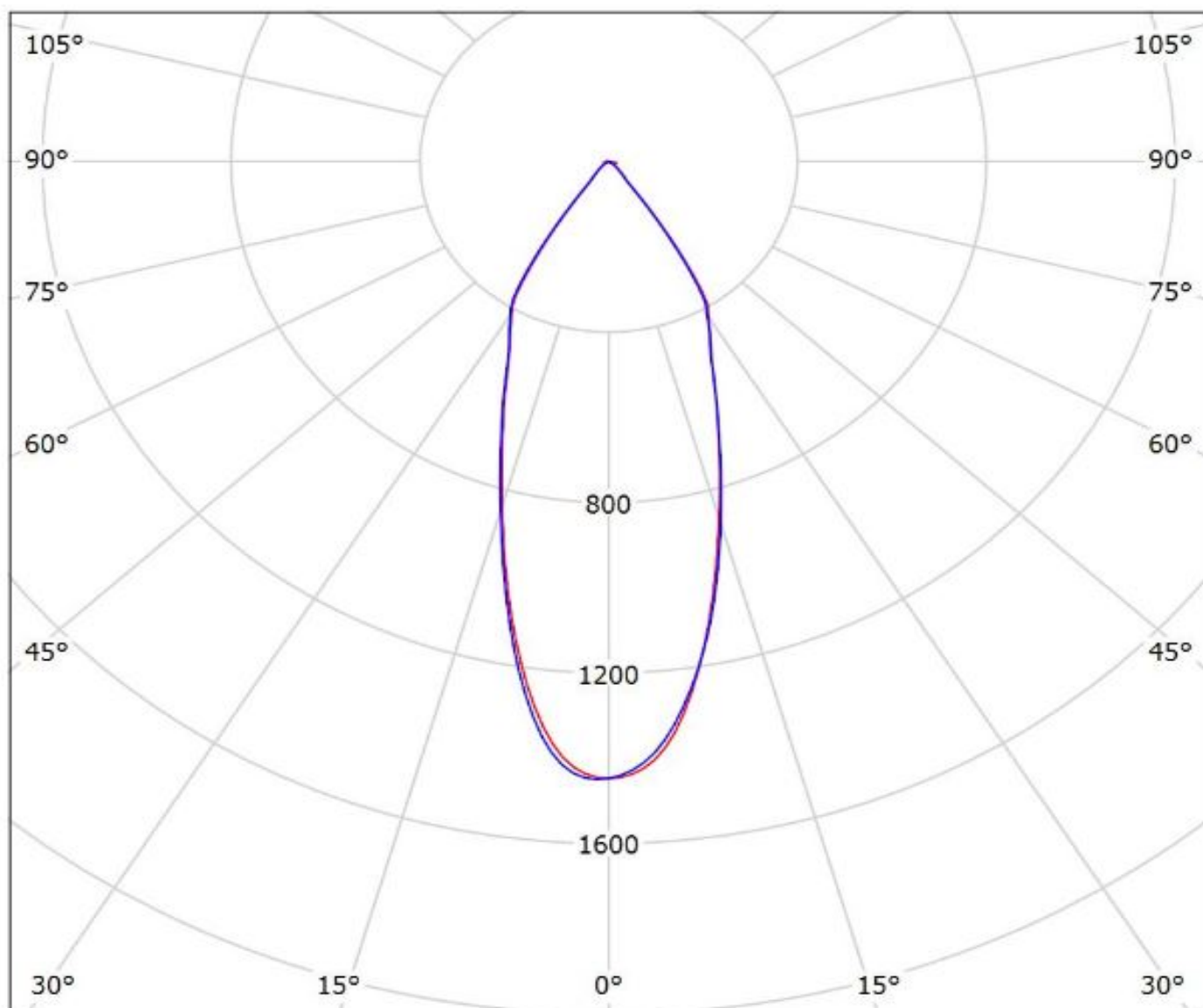
QUESTION: WHAT IS THE AREA OF THE SHADING?
ANSWER: 1/2 * 10 * 10 = 50



QUESTION: WHAT IS THE AREA OF THE SHADING?
ANSWER: 1/2 * 10 * 10 = 50

QUESTION: WHAT IS THE AREA OF THE SHADING?

Luminaire: Ledil F13381_ANGELA-W_(CoB1211+IDEAL)
Lamps: 1 x Luxeon_CoB1211_(L2C2-4080)_50-2204CT+50-
2100AN_1376.18lm@250mA_P=7.9988W_I=0.25A



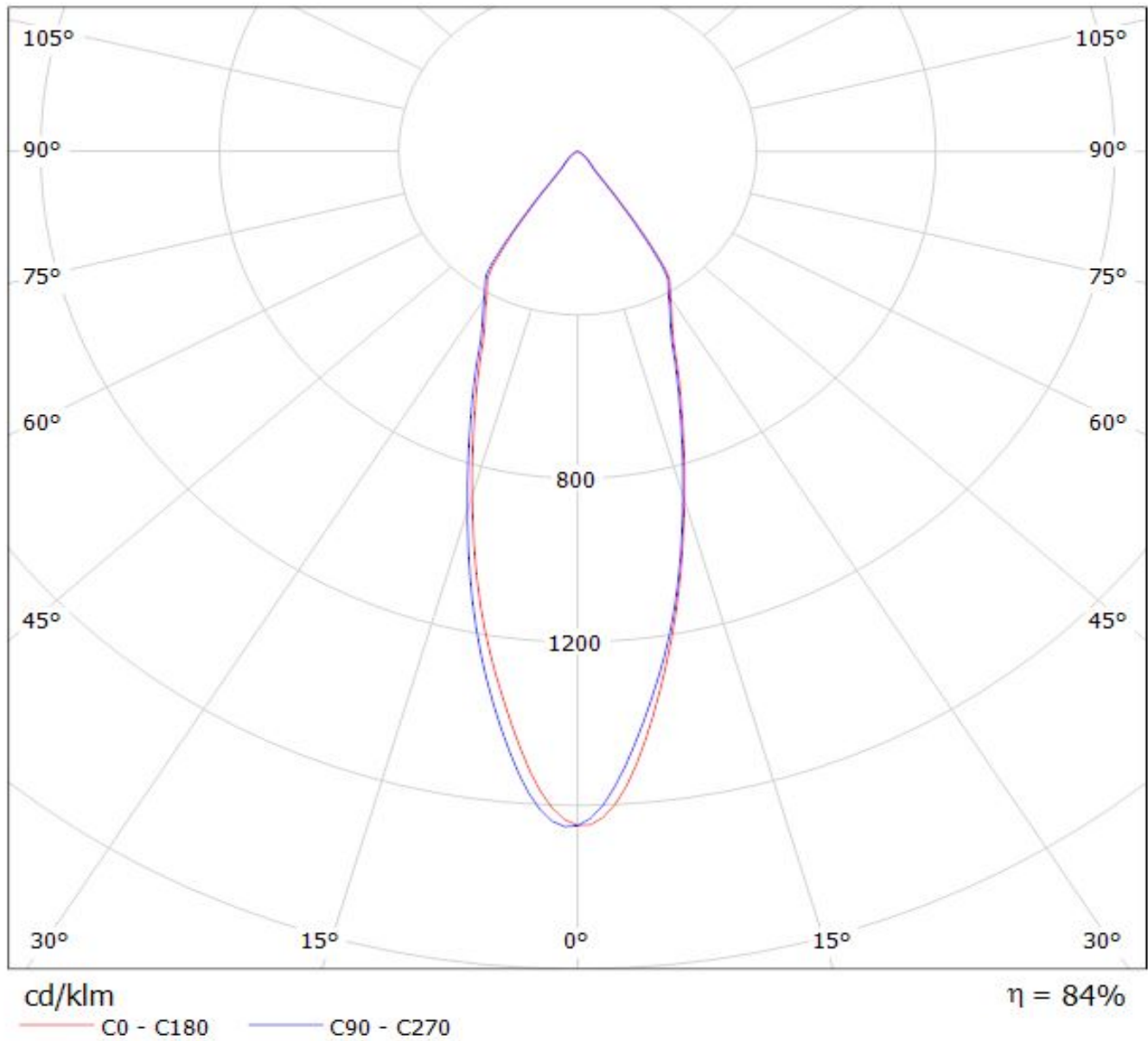
cd/klm

— C0 - C180 — C90 - C270

$\eta = 82\%$

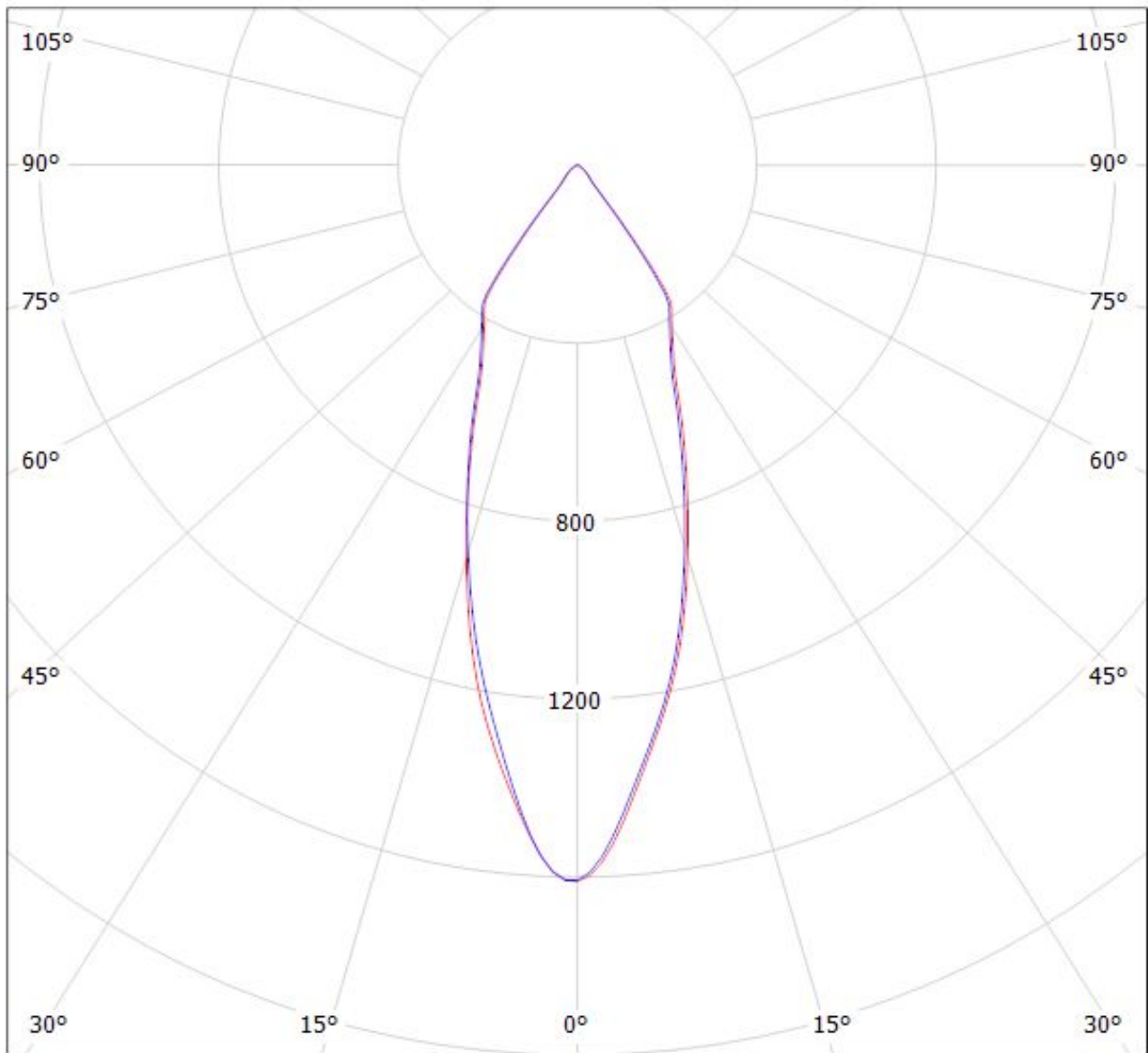
Luminaire: LEDiL Oy F13381_ANGELA-W_(CXM-14)

Lamps: 1 x LUMINUS_CXM-14_1114.36lm@250mA_P=8.36106W_I=249.8mA



Luminaire: LEDiL Oy F13381_ANGELA-W_(NSBxL121A)

Lamps: 1 x Nichia_NSBxL121A_914.478lm@250mA_P=7.56872W_I=249.9mA



cd/klm

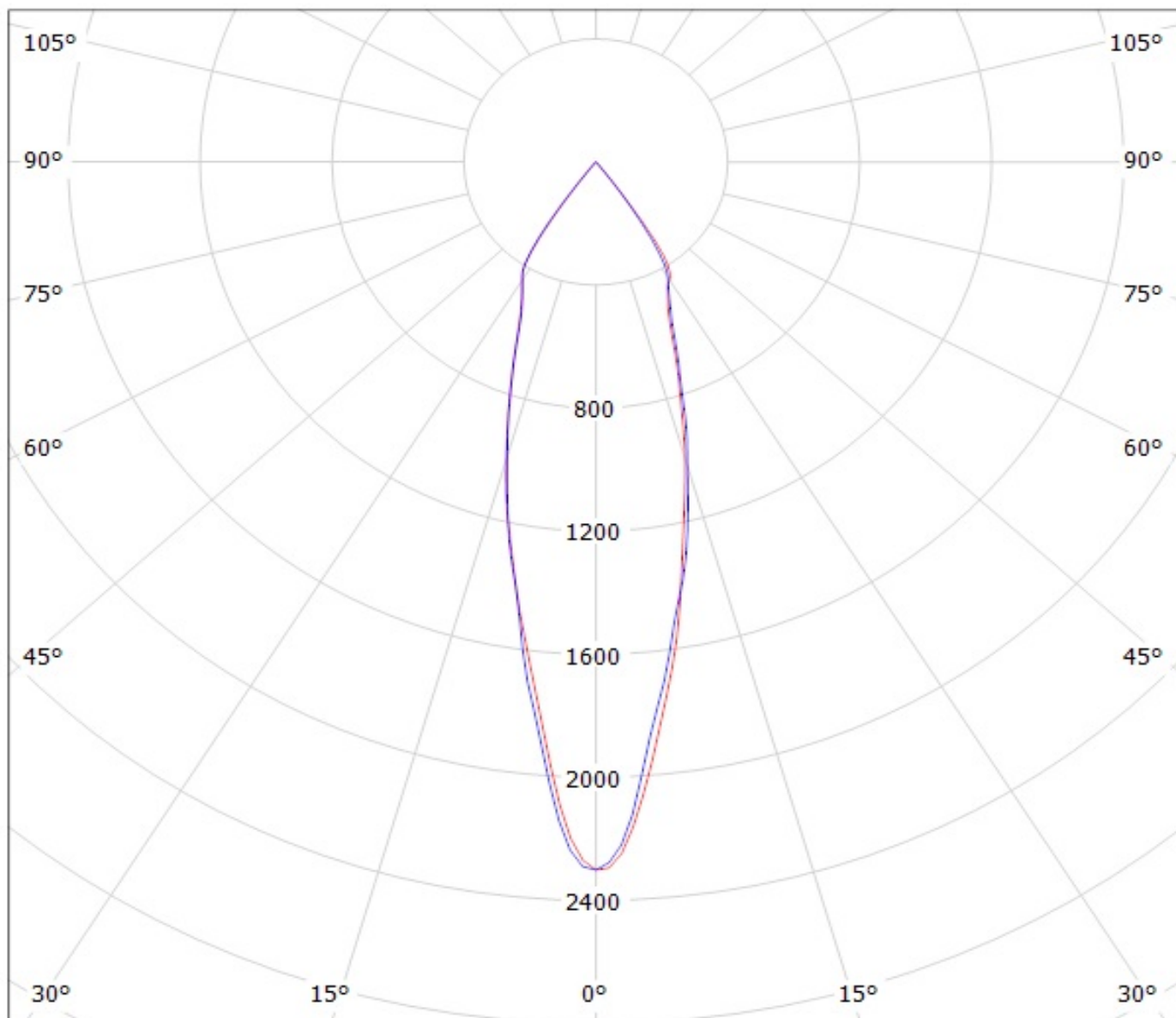
— C0 - C180

— C90 - C270

η = 85%

Luminaire: LEDil Oy F13381_ANGELA-W_(NFCxL060B)

Lamps: 1 x Nichia NFCxL060B (SM403G2450R8000) 1250.88lm @ 250mA P=8.4W I=250mA



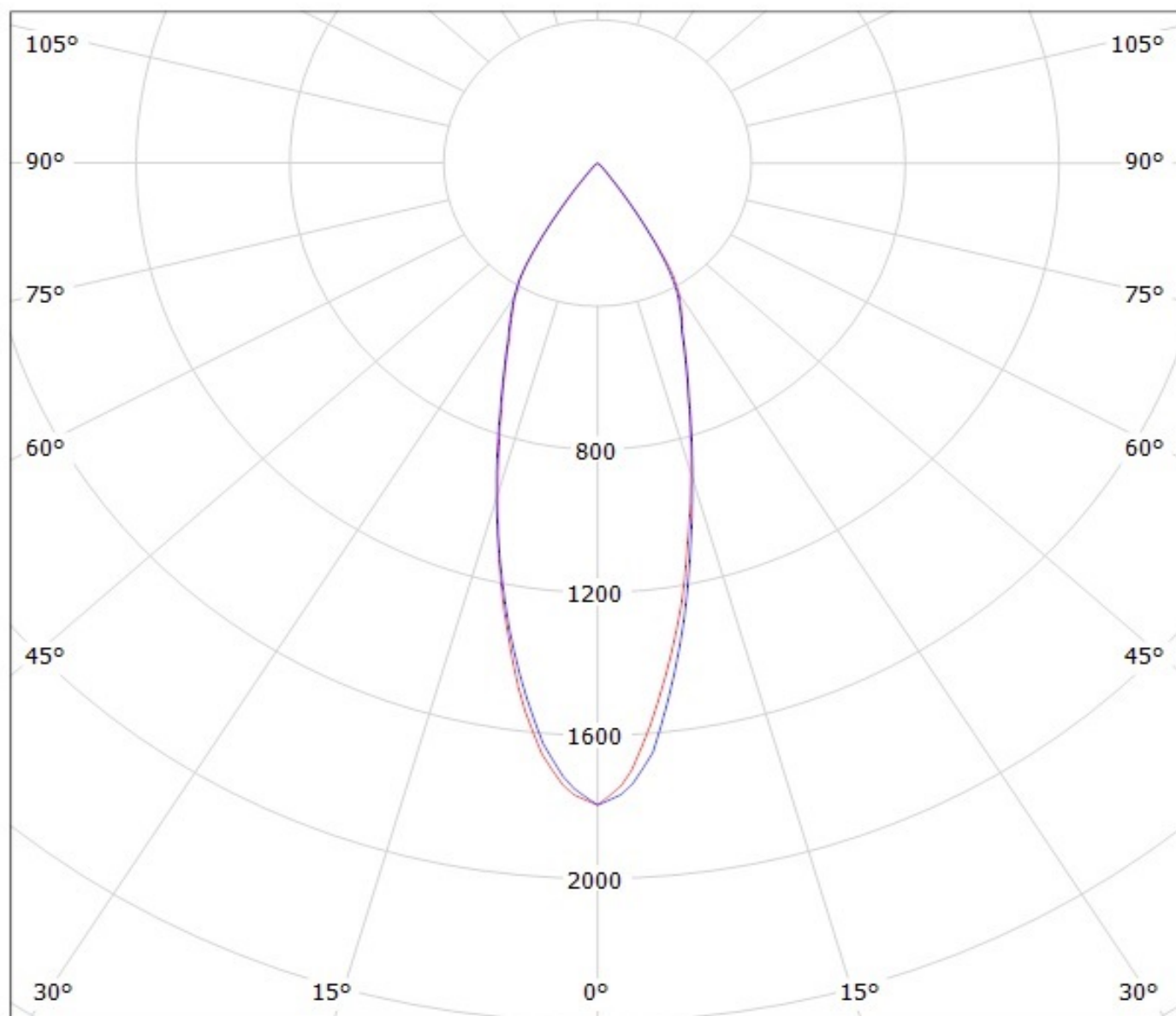
cd/klm

— C0 - C180

— C90 - C270

Luminaire: LEDil Oy F13381_ANGELA-W_(NFDxJ130B)

Lamps: 1 x Nichia NFDxJ130B (SM403G6450R8000) 1410.46lm @ 250mA P=8.9W I=250mA

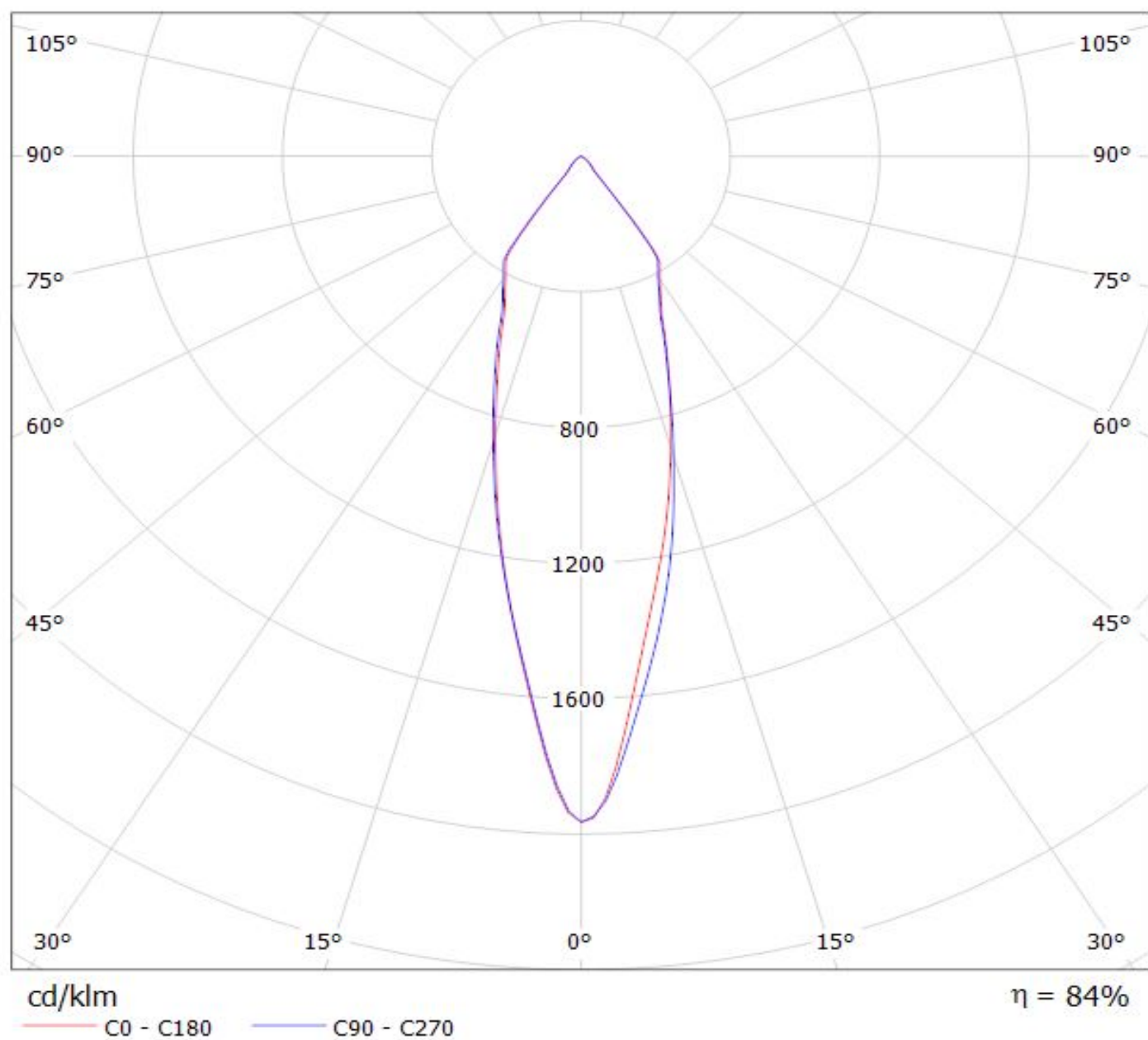


cd/klm

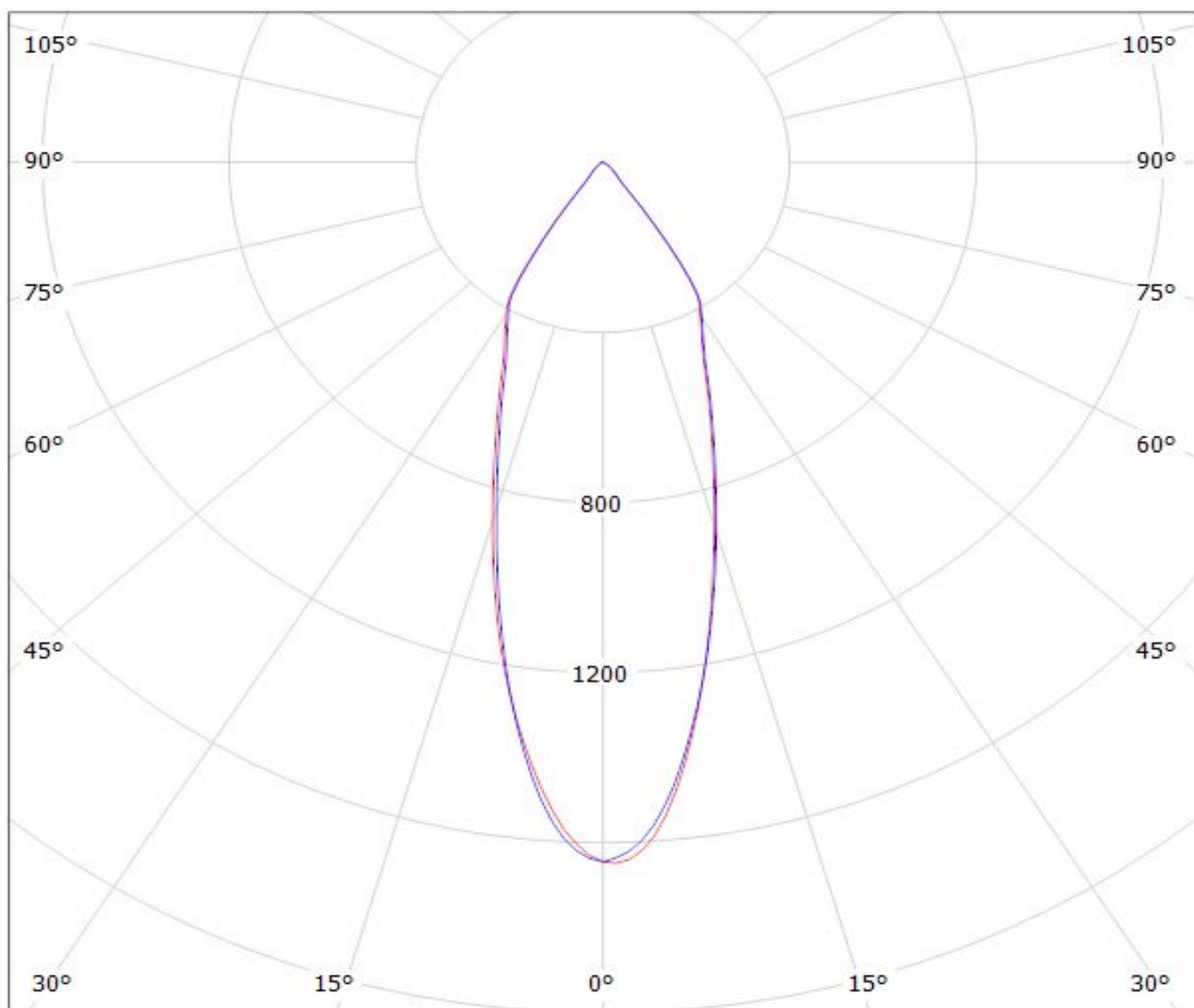
— C0 - C180

— C90 - C270

Luminaire: LEDiL Oy F13381_ANGELA-W_(PrevaLED_LES9)
Lamps: 1 x Osram_PrevaLED_Core_Z3_LES9_(PL-CORE-1100-830-Z3)
_1132.95lm@250mA_P=12.1952W_I=249.8mA



Luminaire: LEDiL Oy F13381_ANGELA-W_(PrevaLED_LES19)
Lamps: 1 x Osram_PrevaLED_CORE_Z3_LES19_(PL-CORE-2000-830-Z3)
_1356.73lm@250mA_P=10.5228W_I=249.9mA



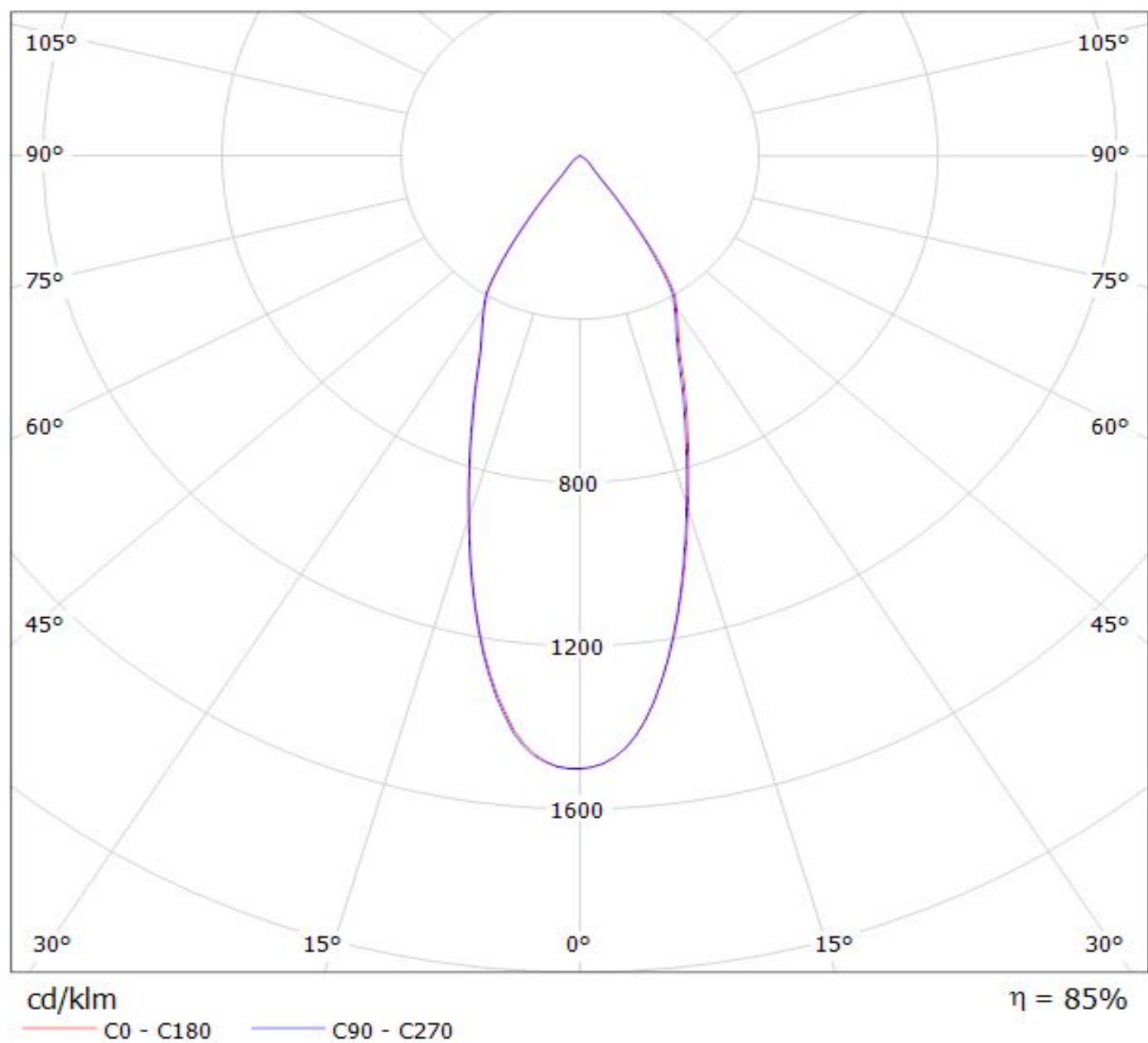
cd/klm

η = 83%

— C0 - C180

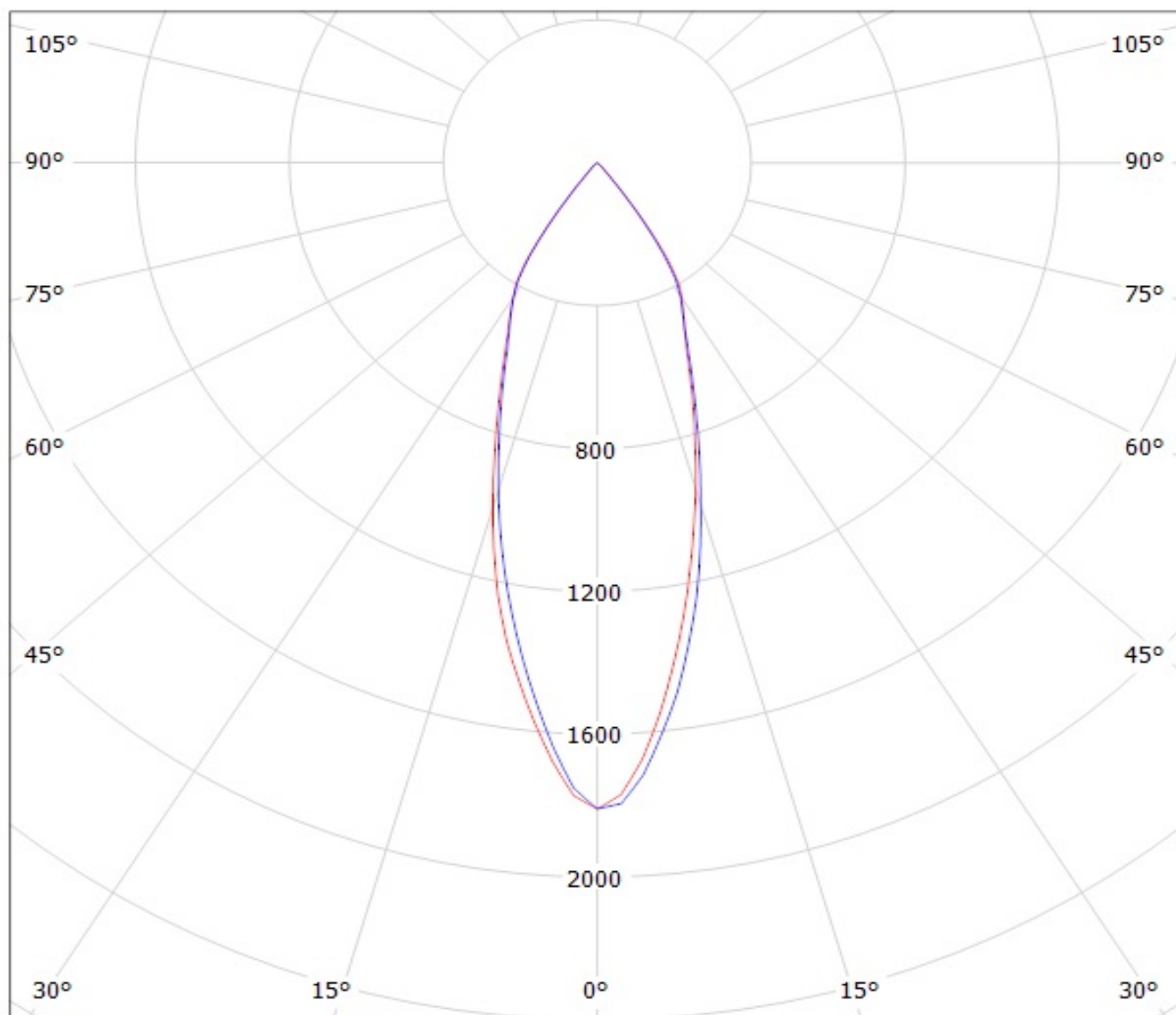
— C90 - C270

Luminaire: LEDiL Oy F13381_ANGELA-W_(PrevaLED_LES23)
Lamps: 1 x Osram_PrevaLED_Core_Z3_LES23_(PL-CORE-5000-930-Z3)
_1130.05lm@250mA_P=10.0097W_I=249.9mA



Luminaire: LEDil Oy F13381_ANGELA-W_(Soleriq_S13) Efficiency=85%

Lamps: 1 x Osram Soleriq S13 (GW KAGHB1.EM) 855lm @ 250mA CCT=3100K P=7.5W I=250mA



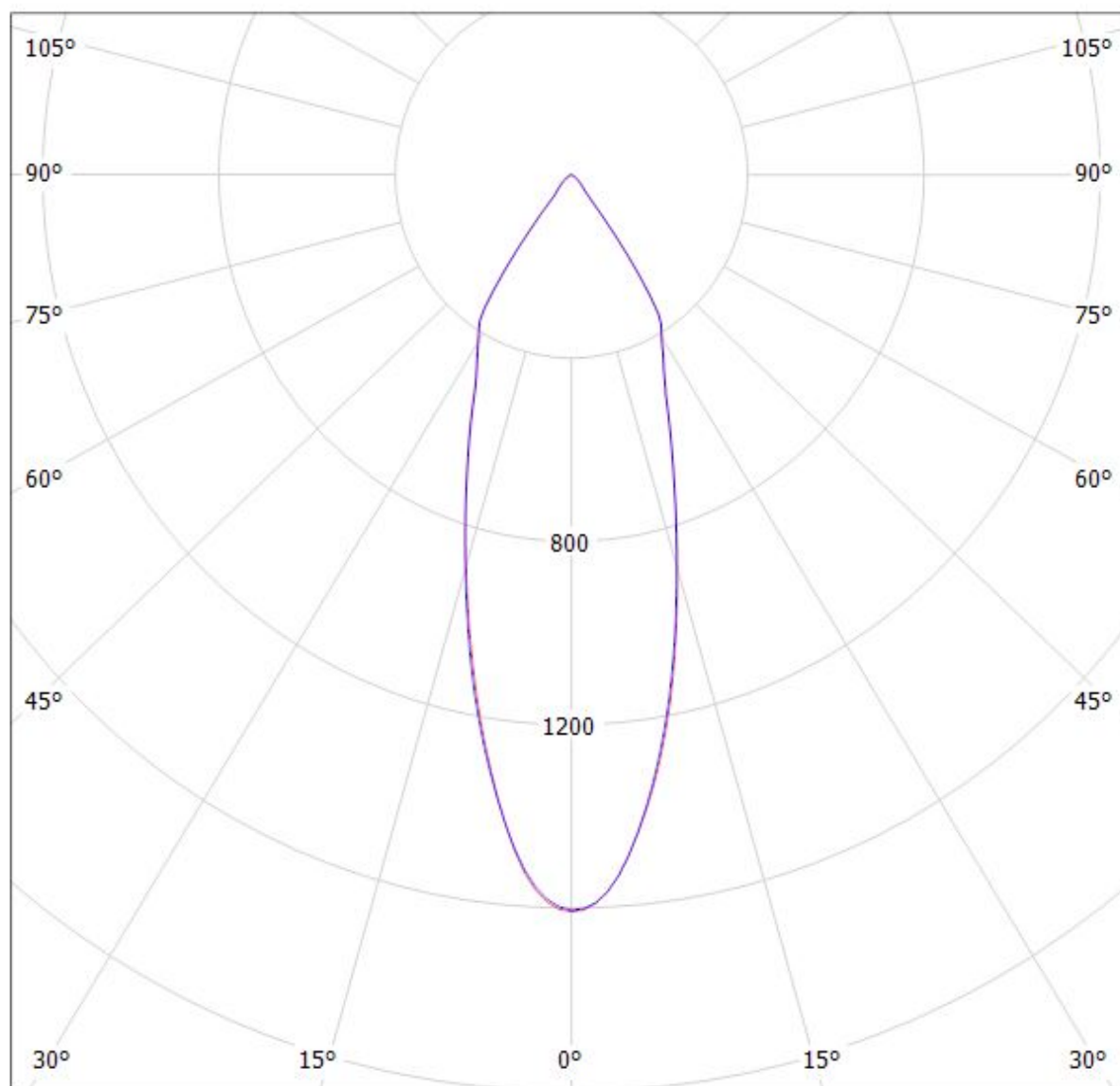
cd/klm

— C0 - C180

— C90 - C270

Luminaire: LEDiL Oy F13381_ANGELA-W_(SOLERIQ_S19_&_TE_2213407-2)

Lamps: 1 x OSRAM_SOLERIQ_S19_(GW_KAHJB1.EM)_1385.15lm@250mA_CCT=3000K_P=10.5613W_I=249.8mA



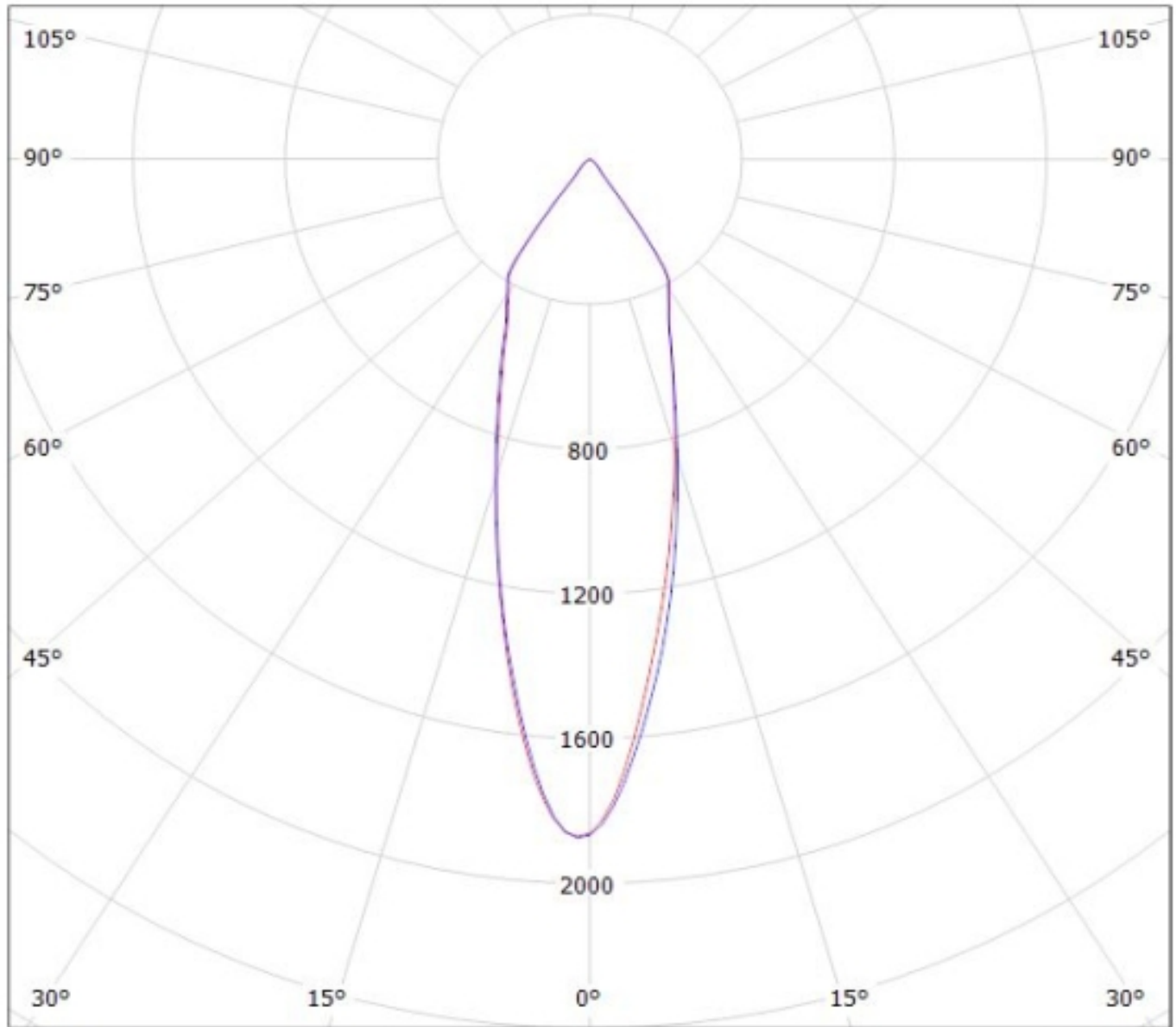
cd/klm

η = 84%

— C0 - C180 — C90 - C270

Luminaire: LEDiL Oy F13381_ANGELA-W_(LEP-800-827-C-AC)

Lamps: 1 x OSRAM PrevaLED Core AC (LEP-800-827-C-AC) 910lm@60mA U:230V P:14W



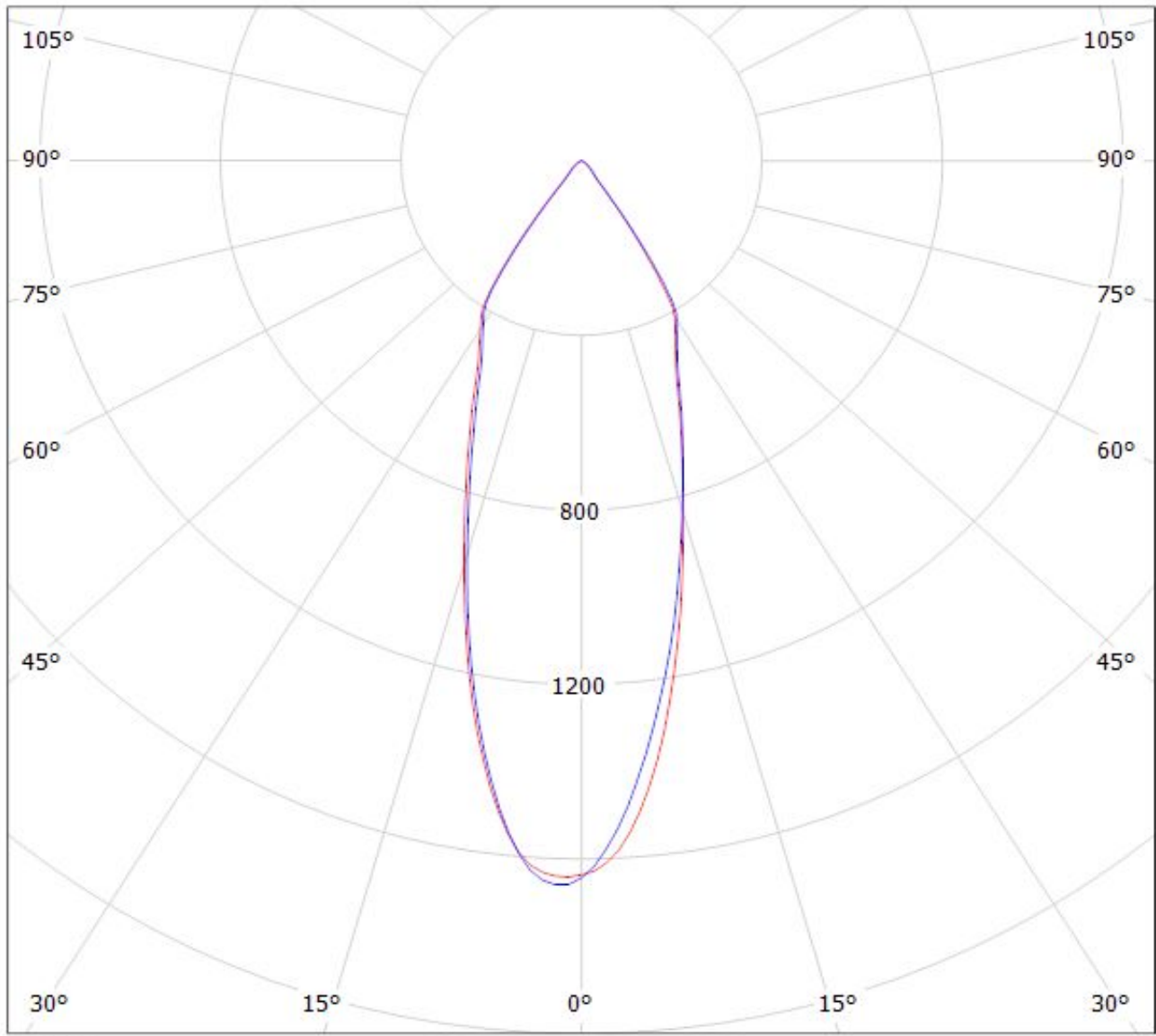
cd/klm

— C0 - C180

— C90 - C270

$\eta = 84\%$

Luminaire: LEDiL Oy F13381_ANGELA-W_(LEP-2000-827-C-AC)
Lamps: 1 x OSRAM PrevaLED Core AC (LEP-2000-827-C-AC)

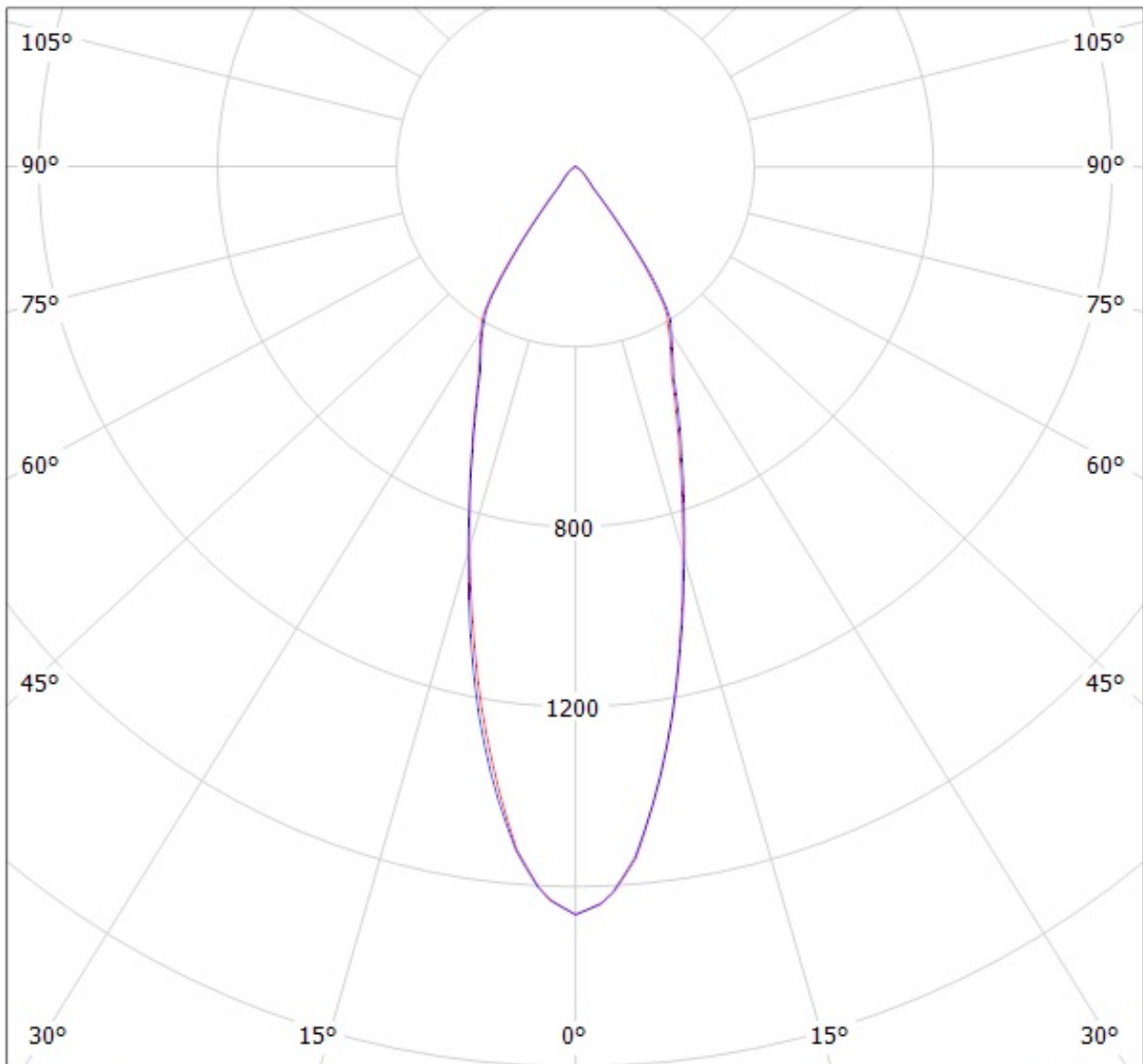


cd/klm
— C0 - C180 — C90 - C270

$\eta = 84\%$

Luminaire: LEDiL Oy F13381_ANGELA-W_(PrevaLED_Z4)Eff 84%

Lamps: 1 x Osram_PrevaLED_CORE_Z4_(PL-CORE-3000-830-Z4)_1423.93lm@250mA_P=10.7652W_I=249.9mA



cd/klm

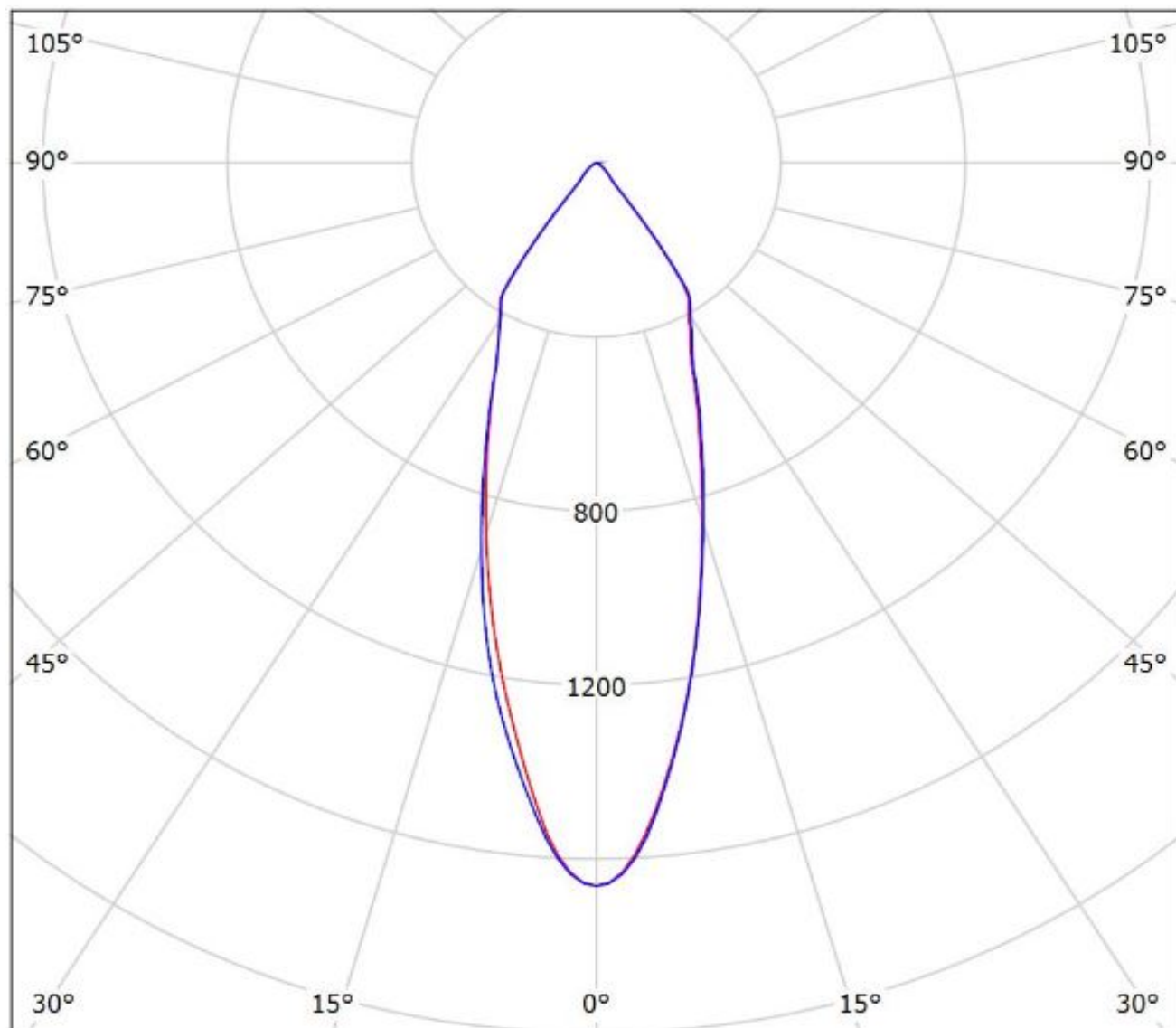
$\eta = 84\%$

— C0 - C180

— C90 - C270

Luminaire: LEDiL Oy F13381_ANGELA-W_(SOLERIQ_P13)

Lamps: 1 x SOLERIQ_P13_(GW_MAGMB1.EM)_1038.25lm@250mA_CCT=3000K_P=8.77223W_I=249.8mA

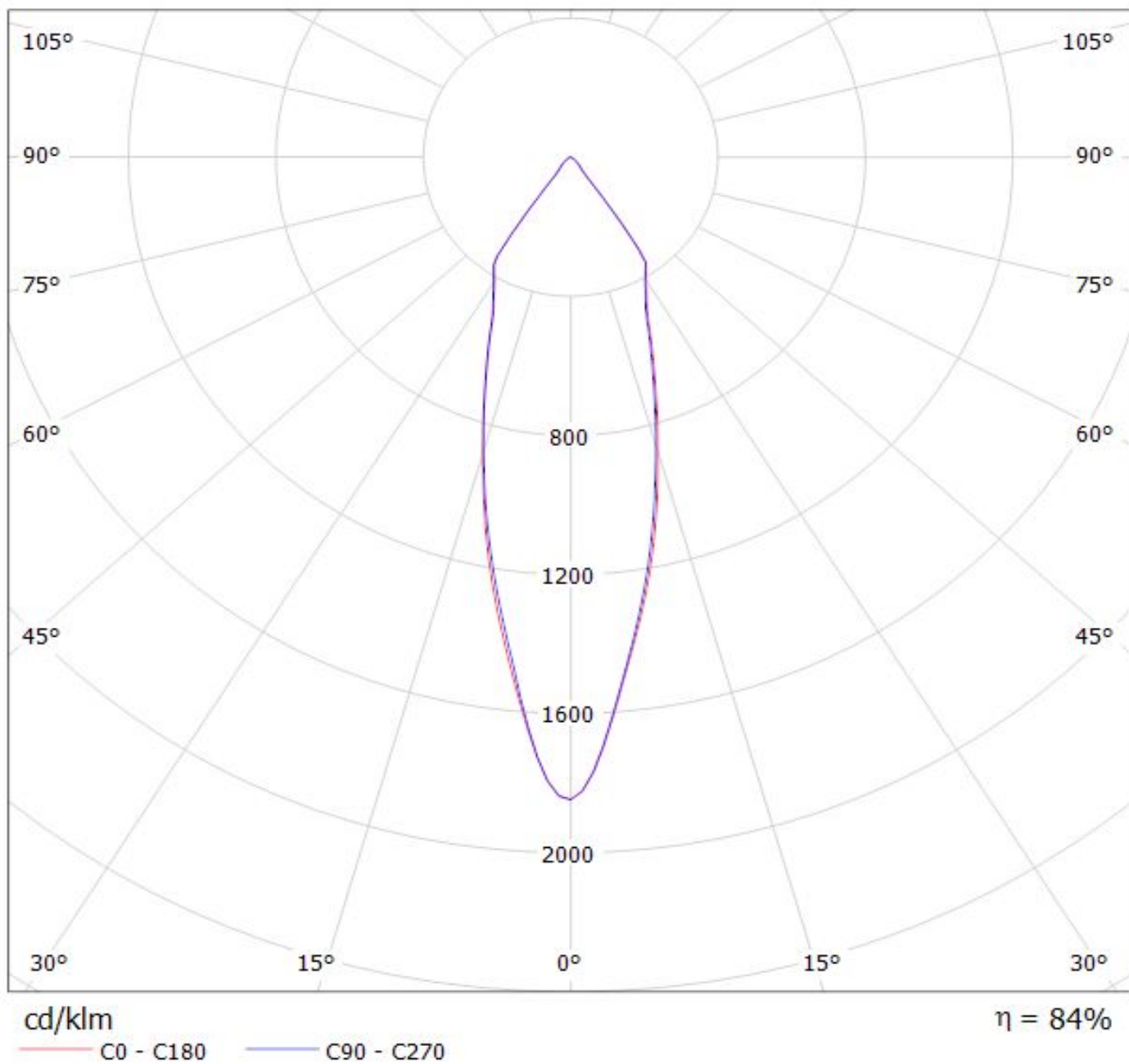


cd/klm

— C0 - C180 — C90 - C270

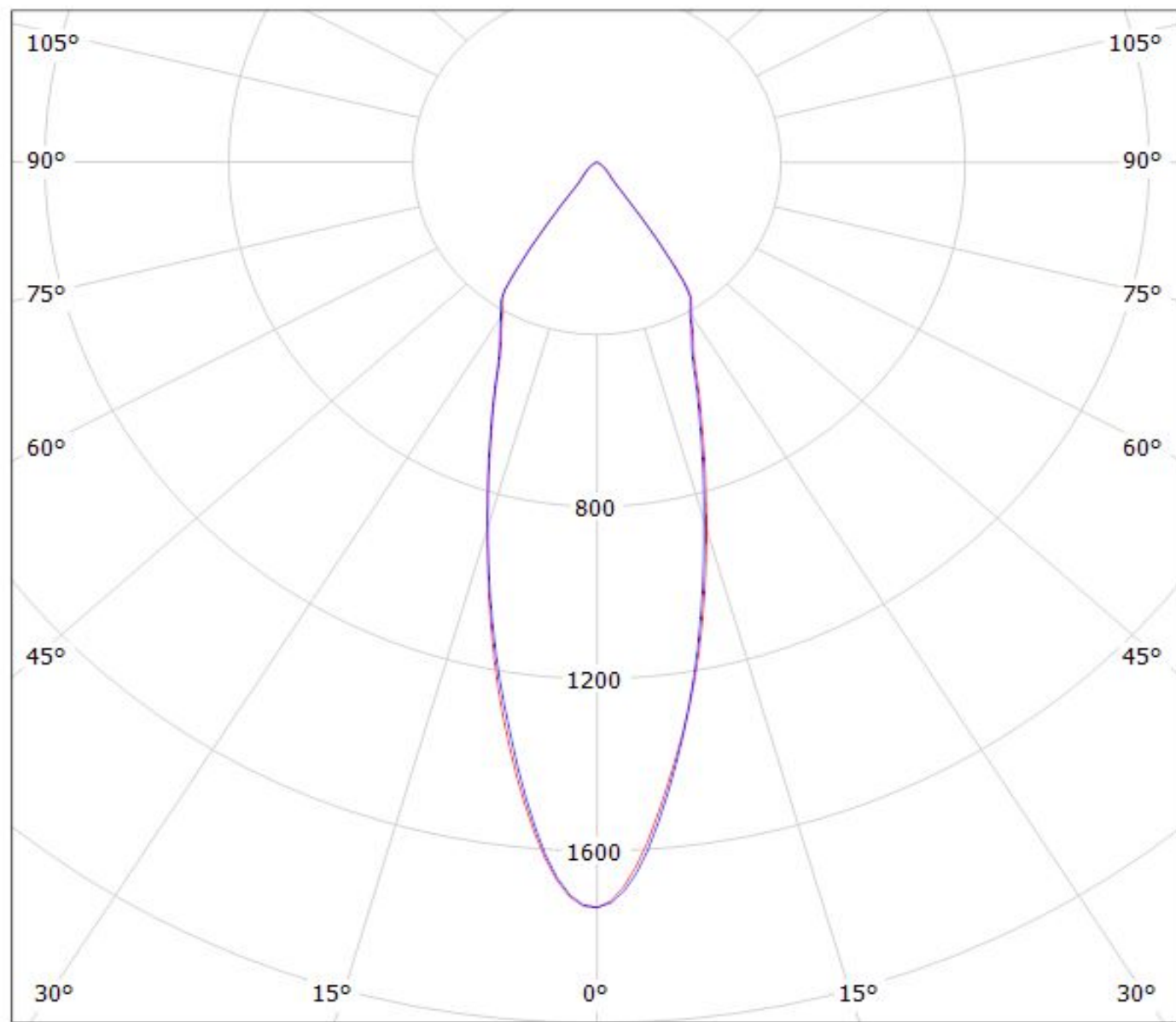
$\eta = 84\%$

Luminaire: LEDiL Oy F13381_ANGELA-W_(Fortimo LED SLM 1100 lm 830 L9 G4)
Lamps: 1 x Fortimo LED SLM 1100 lm 830 L9 G4_1021.27lm@250mA_P=9.2431W_I=0.2498A



Luminaire: LEDiL Oy F13381_ANGELA-W_(Fortimo LED SLM L13 G4)

Lamps: 1 x Fortimo LED SLM L13 G4_1030.19lm@250mA_P=8.38104W_I=0.2498A



cd/klm

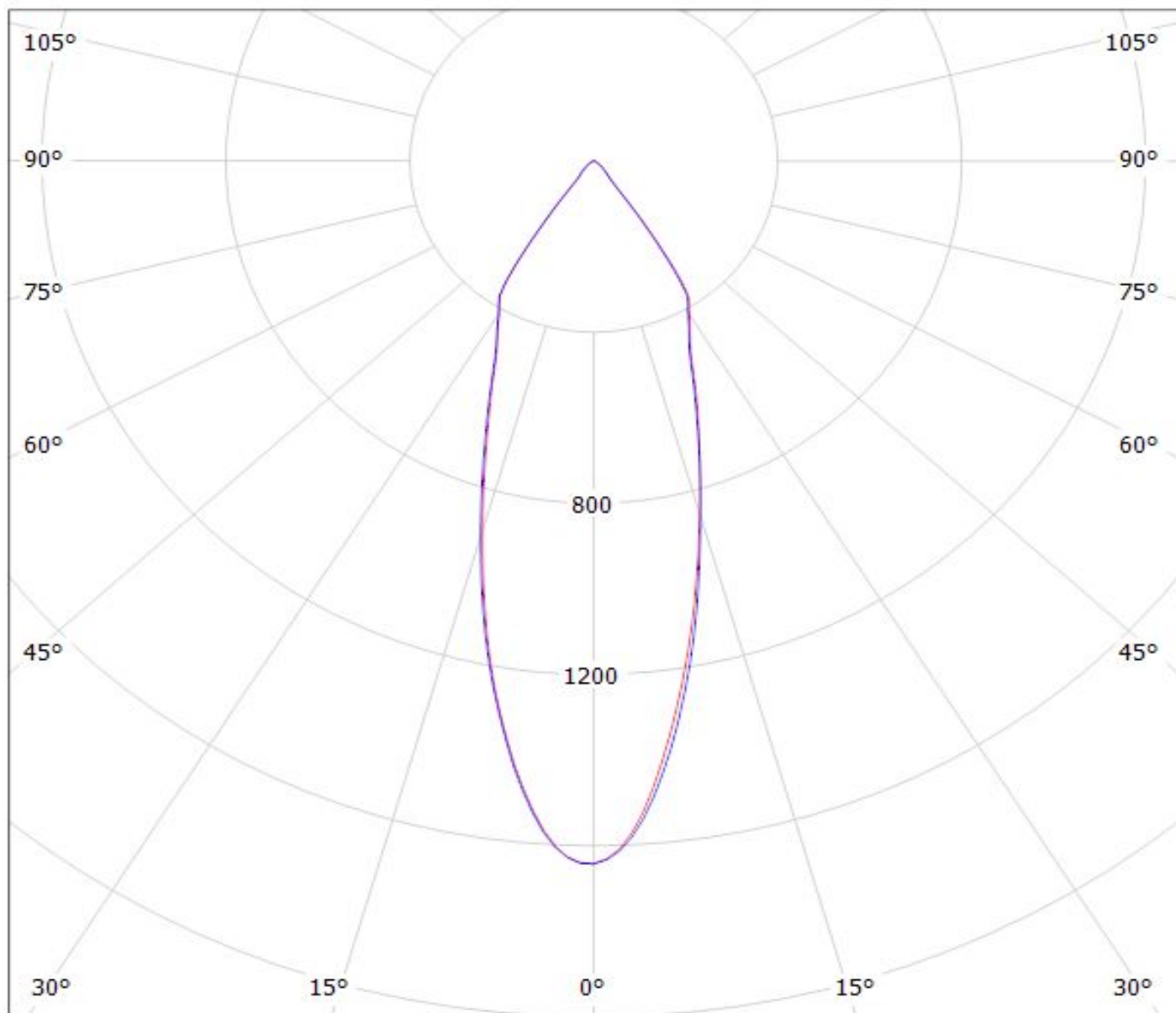
— C0 - C180

— C90 - C270

$\eta = 84\%$

Luminaire: LEDiL Oy F13381_ANGELA-W_(Fortimo LED SLM L15 G4)

Lamps: 1 x Fortimo LED SLM L15 G4_1116.47lm@250mA_P=8.21168W_I=0.2498A



cd/klm

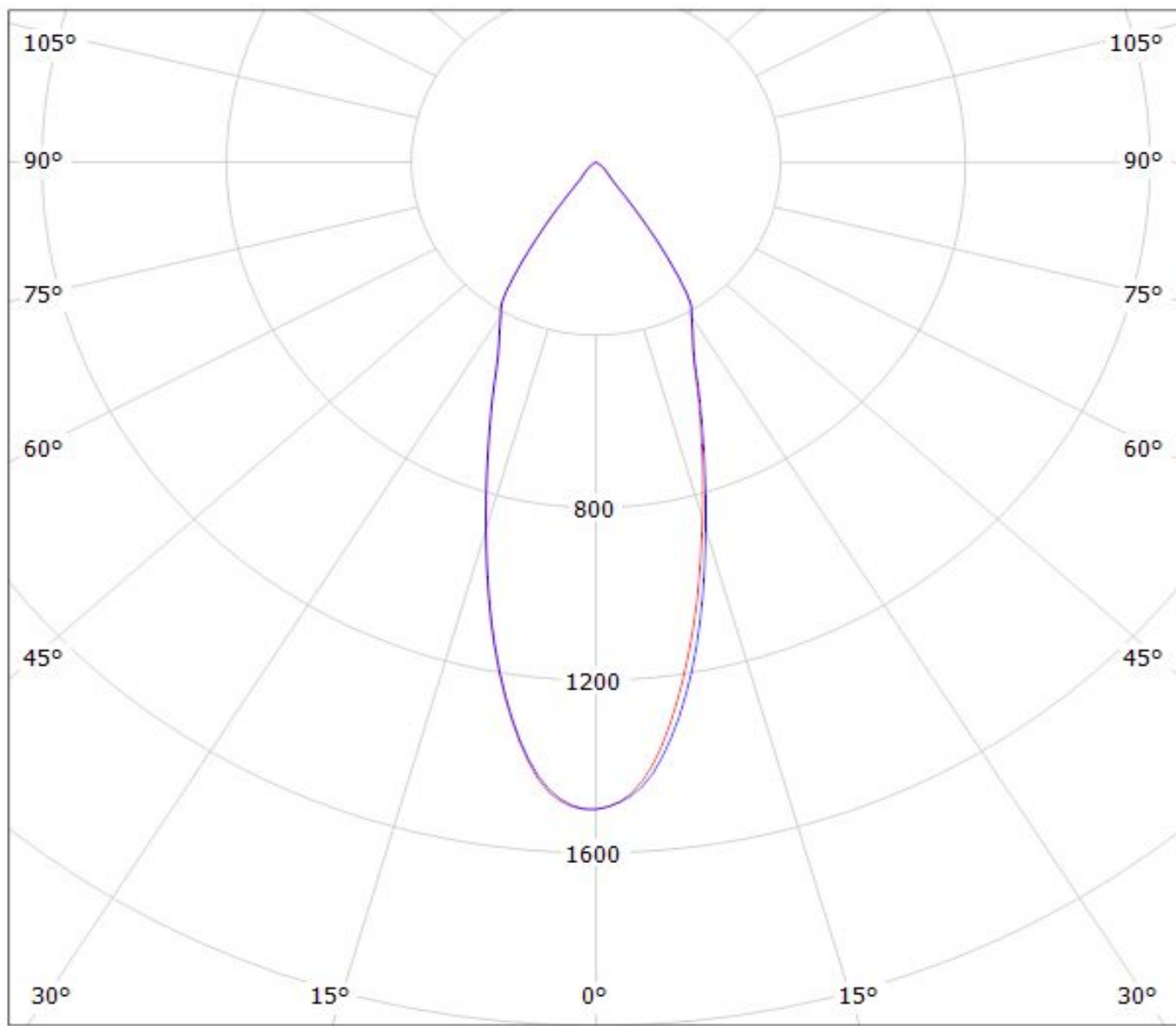
— C0 - C180

— C90 - C270

$\eta = 84\%$

Luminaire: LEDiL Oy F13381_ANGELA-W_(Fortimo LED SLM L19 G4)

Lamps: 1 x Fortimo LED SLM L19 G4_1114.89lm@250mA_P=8.04906W_I=0.2498A



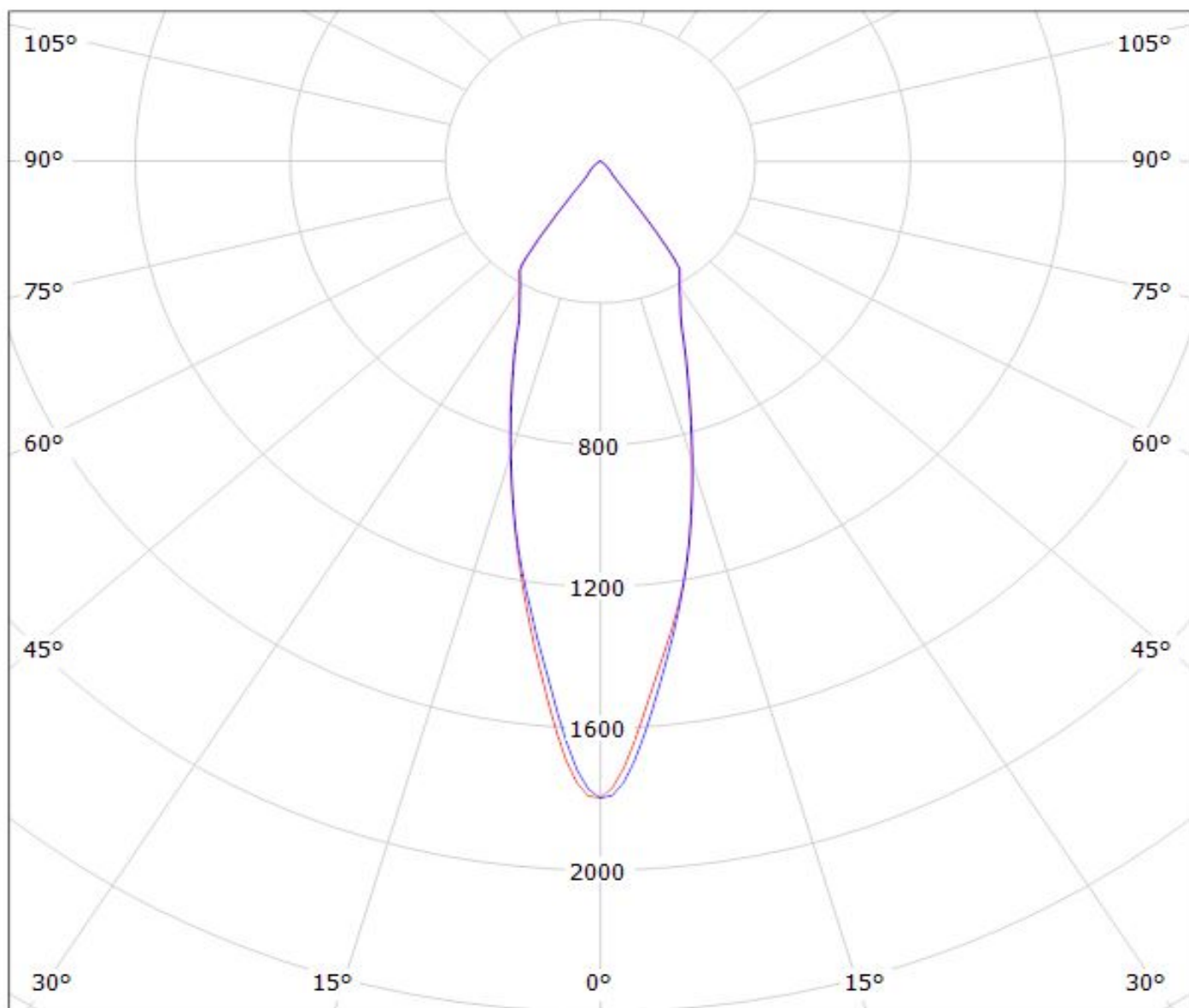
cd/klm

$\eta = 83\%$

— C0 - C180

— C90 - C270

Luminaire: LEDiL Oy F13381_ANGELA-W_(SLM-G5-LES-9)_(Z50-Optic-Clip)
Lamps: 1 x Fortimo_SLM-G5-LES-9_1182.49lm@250mA_P=8.5848W_I=0.250A



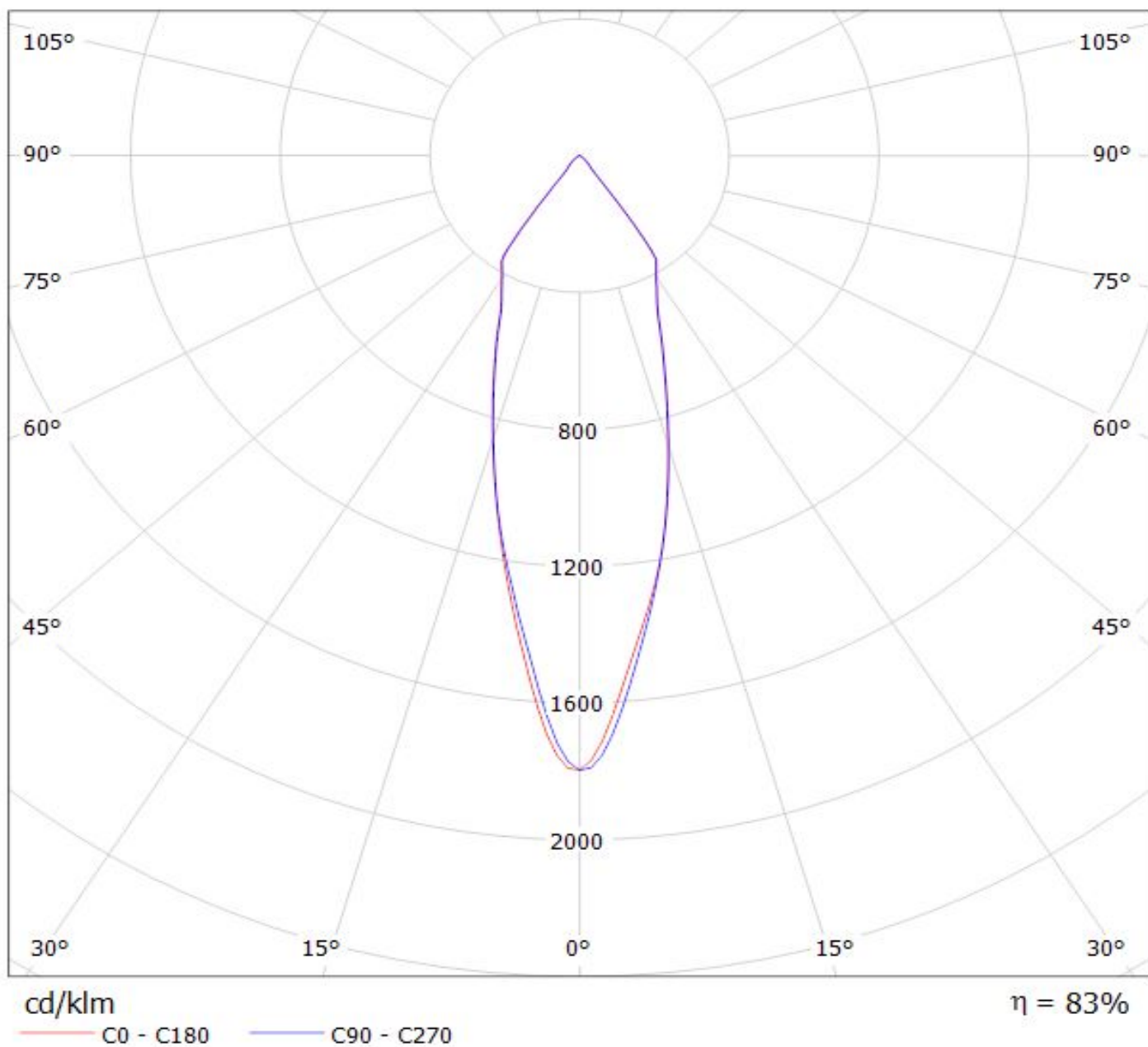
cd/klm

$\eta = 83\%$

— C0 - C180

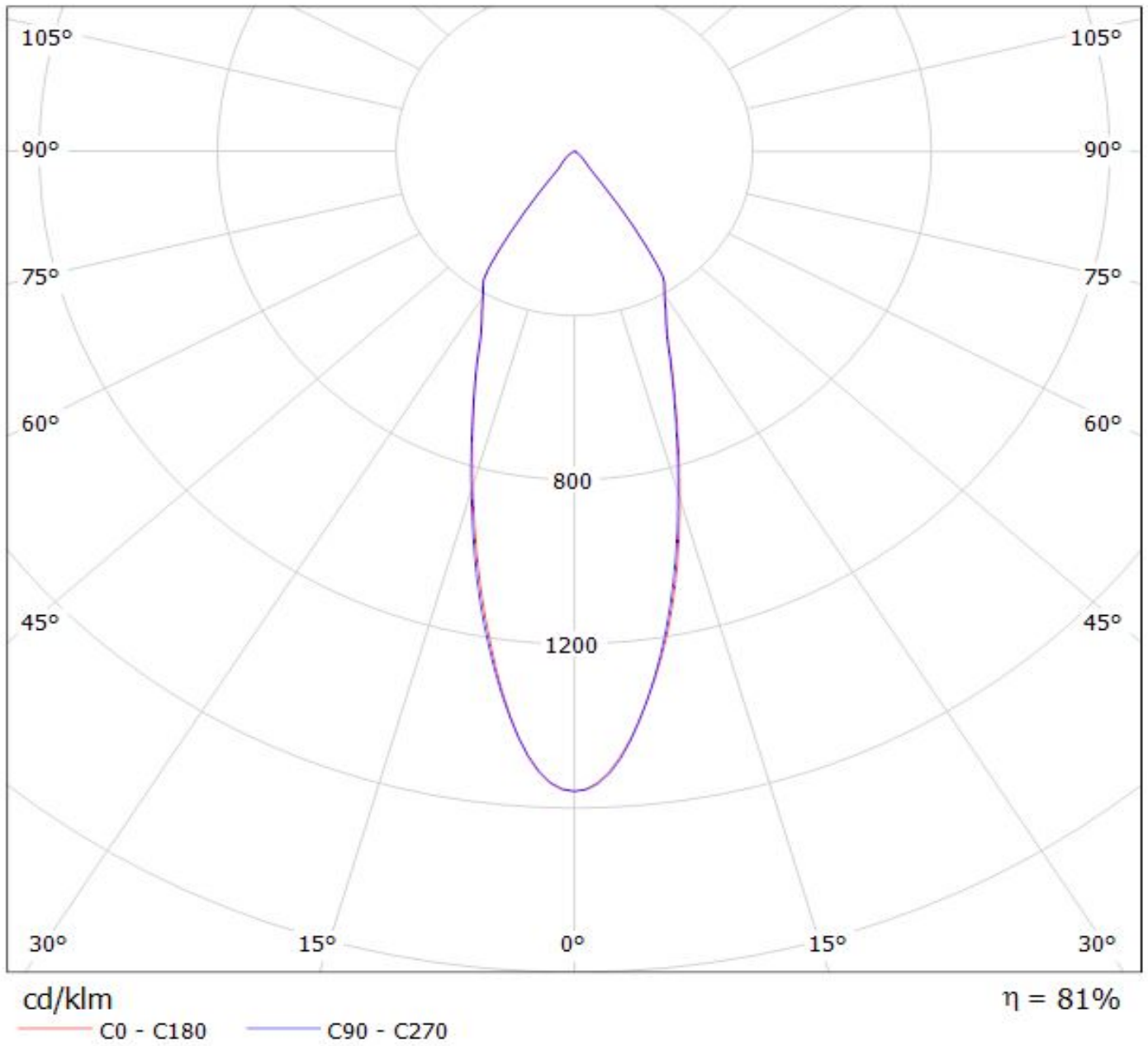
— C90 - C270

Luminaire: LEDiL Oy F13381_ANGELA-W_(SLM-G5-LES-9)_(Z50-Optic-Clip)
Lamps: 1 x Fortimo_SLM-G5-LES-9_1182.49lm@250mA_P=8.5848W_I=0.250A

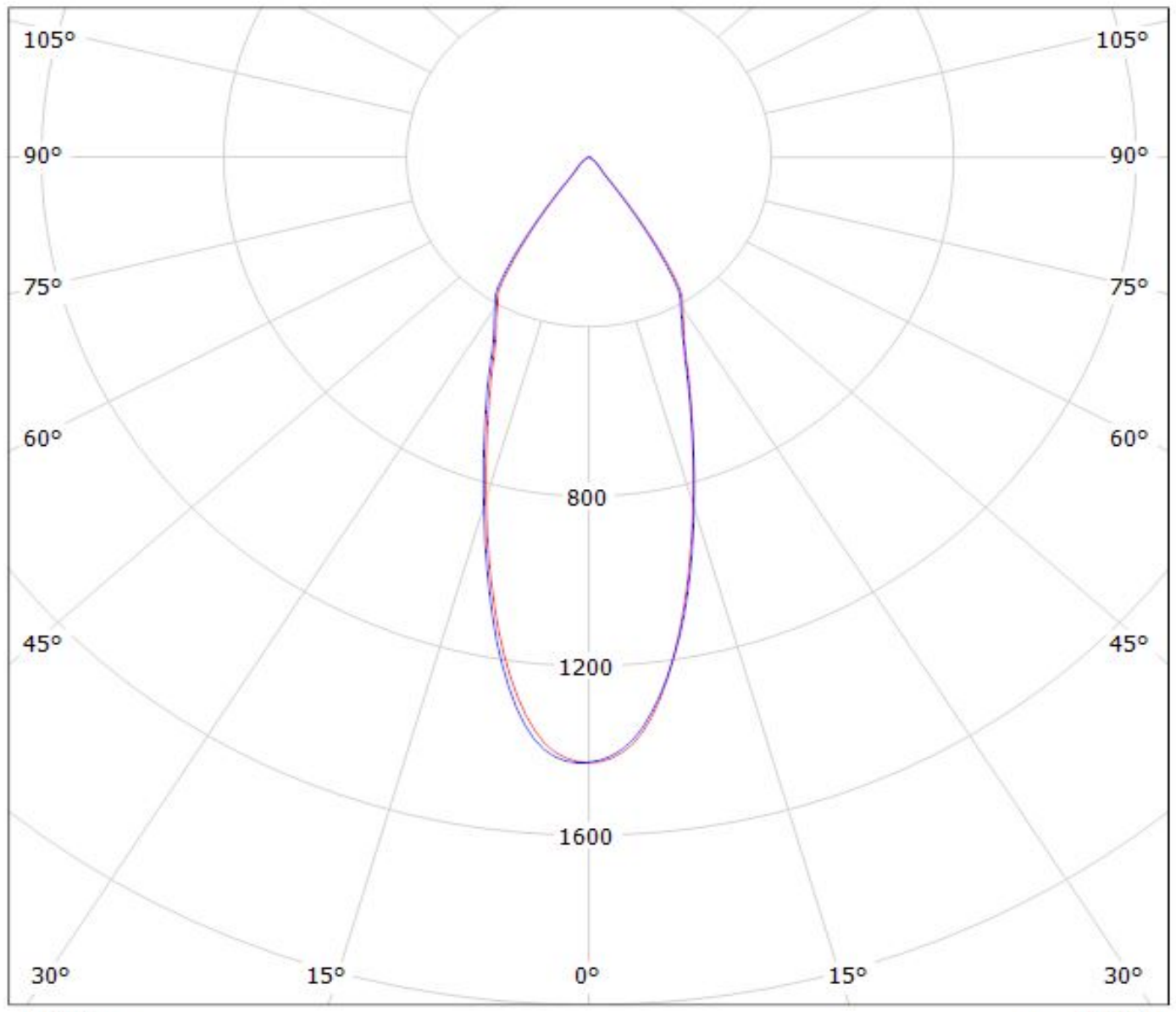


Luminaire: LEDiL Oy F13381_ANGELA-W_(SLM-G5_LES-15)

Lamps: 1 x Fortimo_SLM-G5_LES-15_1257.61lm@250mA_P=8.1569W_I=0.250A



Luminaire: LEDiL Oy F13381_ANGELA-W_(SLM-G5_LES-19)_(Z50_Optic_Clip)
Lamps: 1 x Fortimo_SLM-G5_LES-19_1397.58lm@250mA_P=8.0385W_I=0.250A



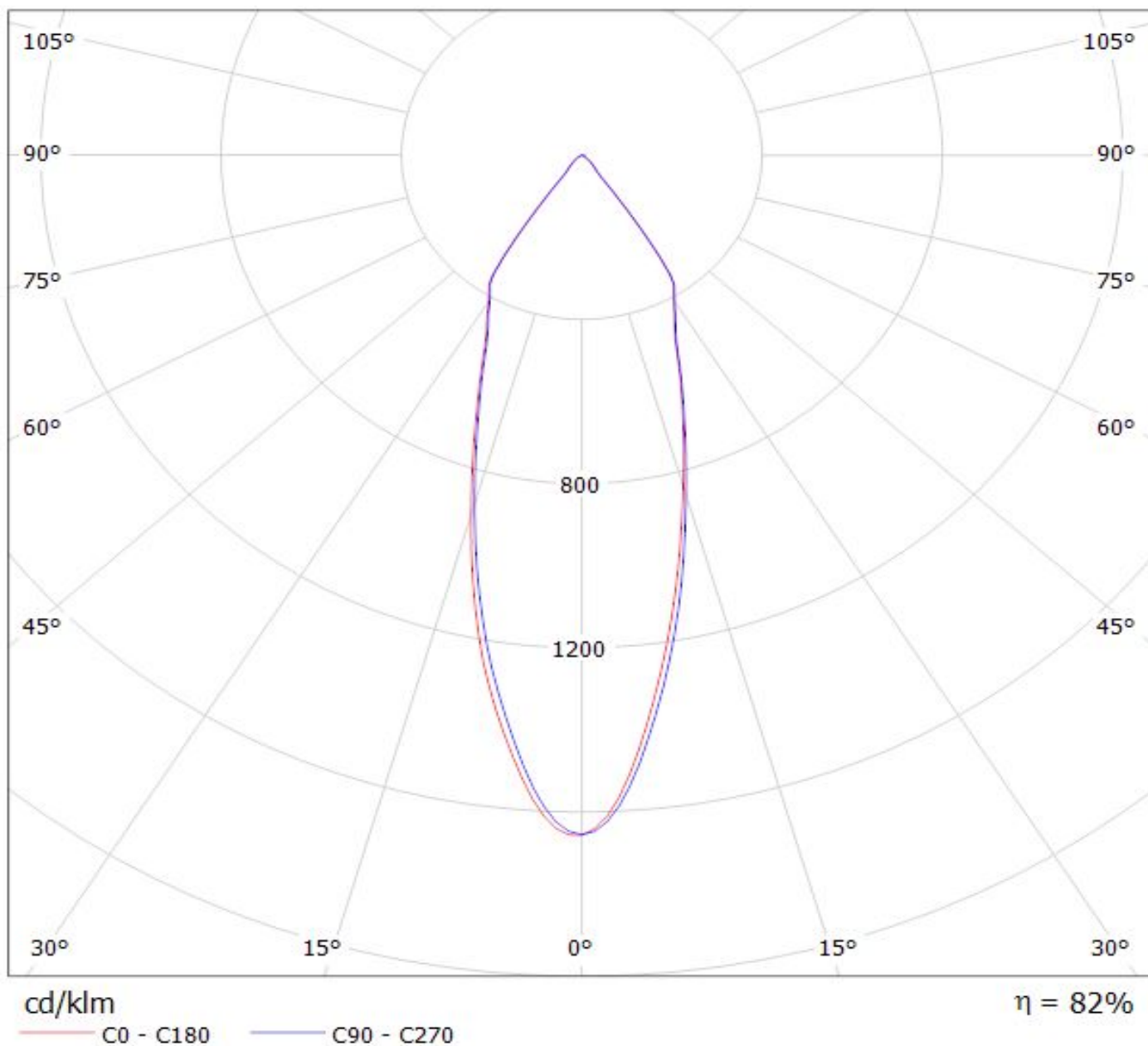
cd/klm

— C0 - C180

— C90 - C270

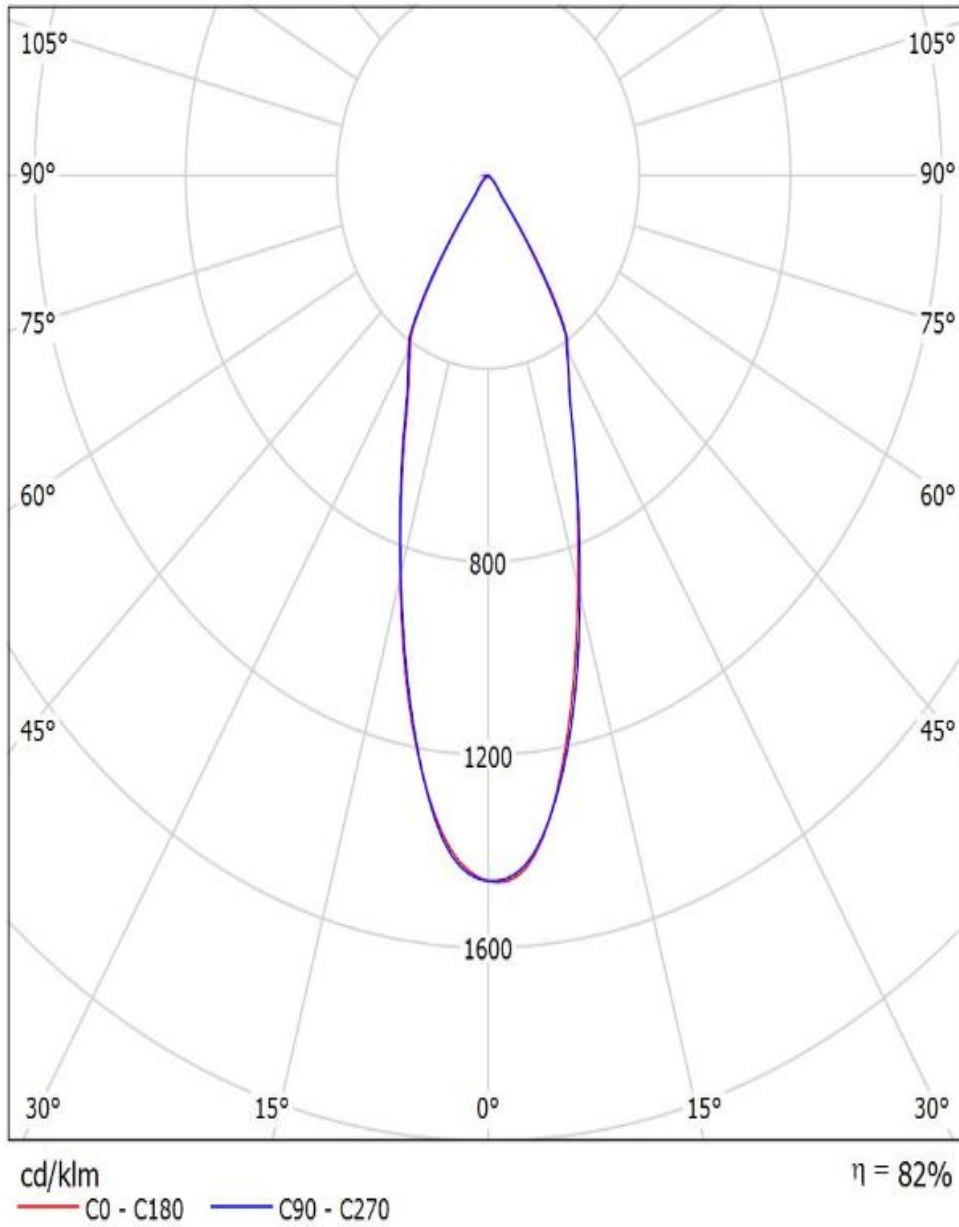
$\eta = 80\%$

Luminaire: LEDiL Oy F13381_ANGELA-W_(SLM-G5_LES-13)_Z50-Optic-Clip
Lamps: 1 x Fortimo_SLM-G5_LES-13_1300.47lm@250mA_P=8.4010W_I=0.250A

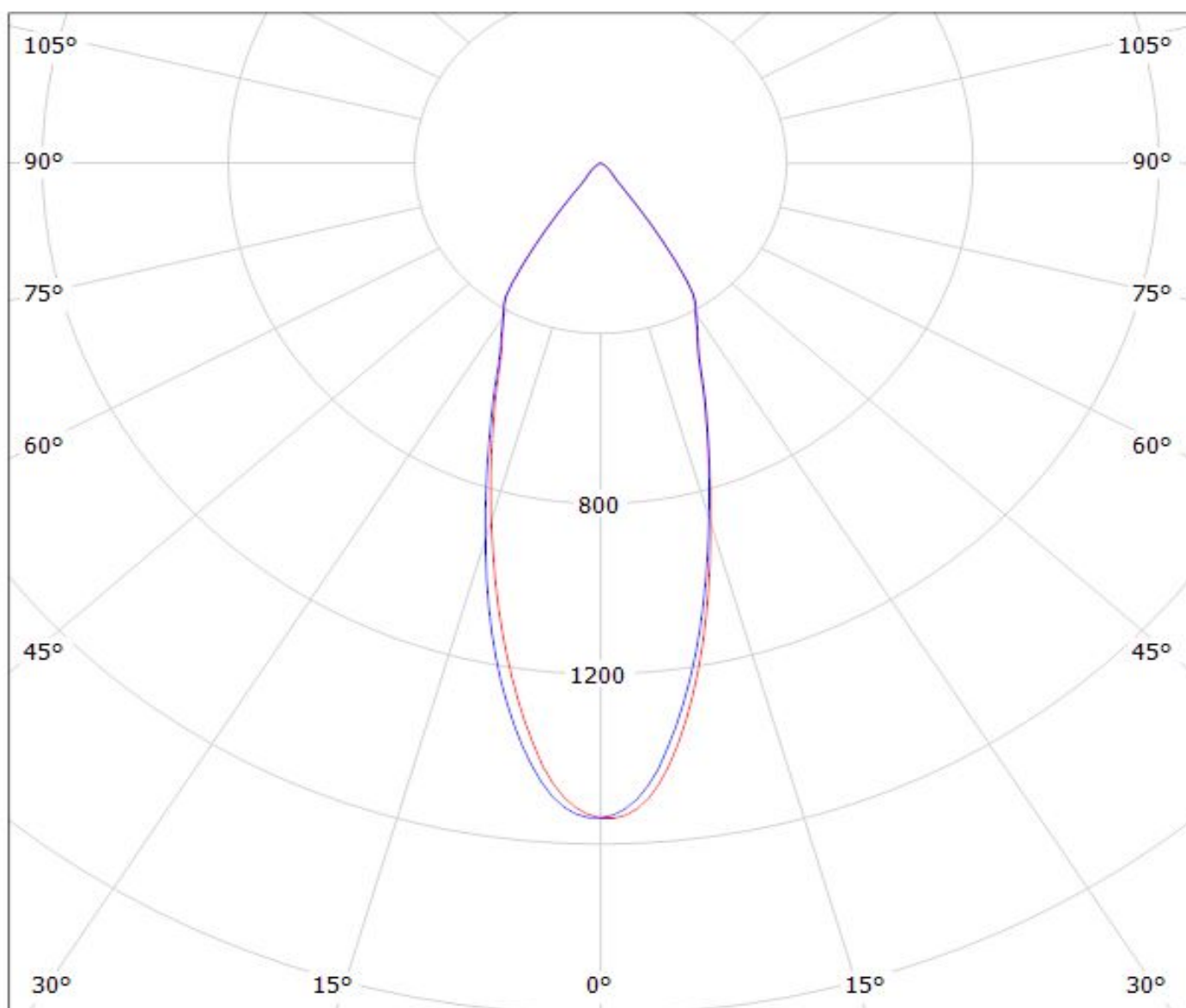


Luminaire: Ledil F13381_ANGELA-W_(SLM_1211_L19_G6_+TE)

Lamps: 1 x Philips_Fortimo_SLM_1211_L19_G6_Standard_+_TE_OPTIC_CLIP_Z50_TYPE1:_2213194-1_1146.84lm@250mA_P=8.13175W_I=0.25A



Luminaire: LEDiL Oy F13381_ANGELA-W_(COB-LC026B) Eff.83.8%
Lamps: 1 x SAMSUNG_COB-LC026B_(SPHWWTHDNC25YHV52F)
_1122.94lm@250mA_P=8.2479W_I=249.8mA



cd/klm

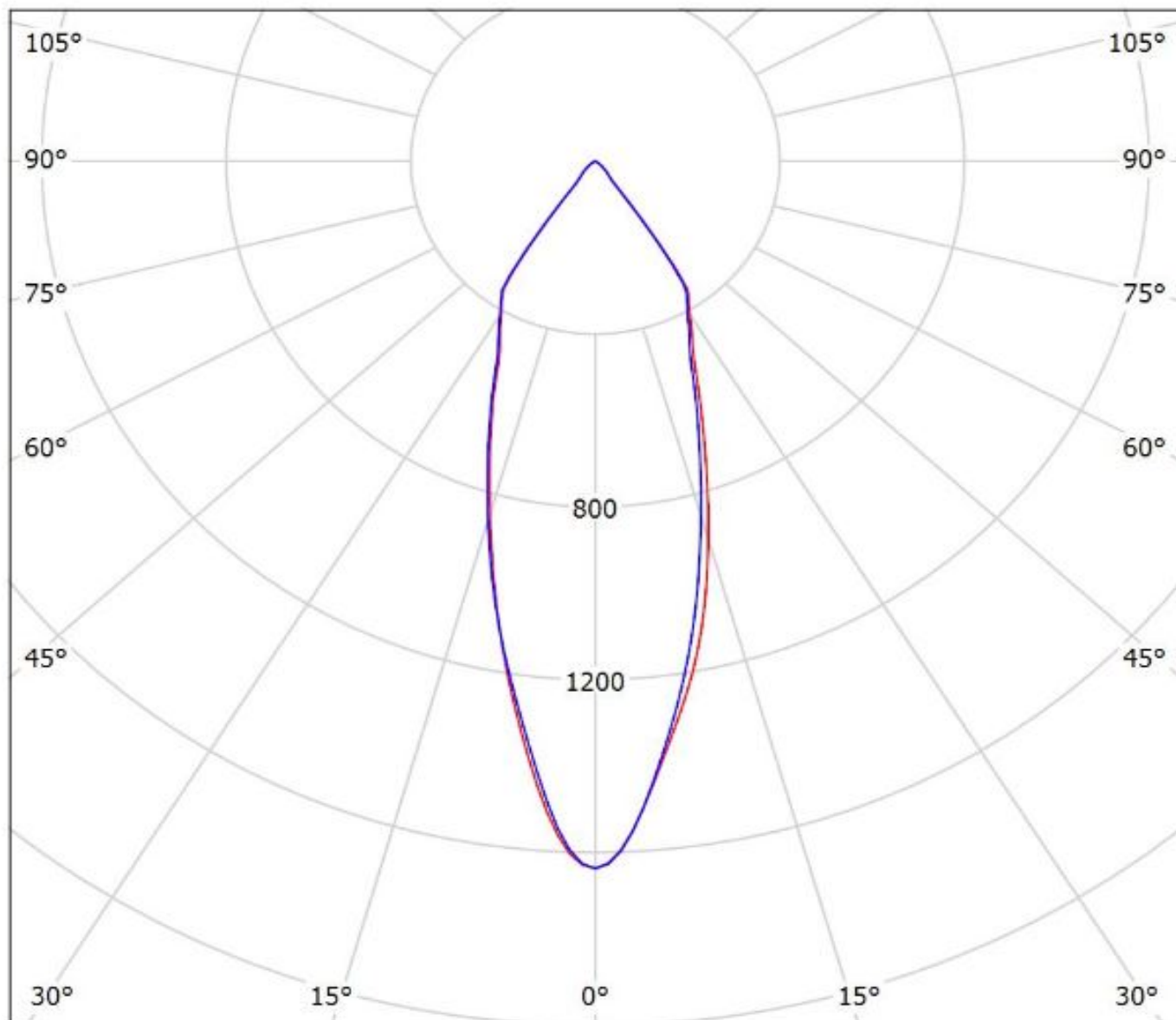
— C0 - C180

— C90 - C270

$\eta = 84\%$

Luminaire: Ledil F13381_ANGELA-W_(LC040C+TE)

Lamps: 1 x Samsung_LC040C+_2213382-2+_2213194-1_1194.16lm@250mA_CCT=4000K_P=8.137W



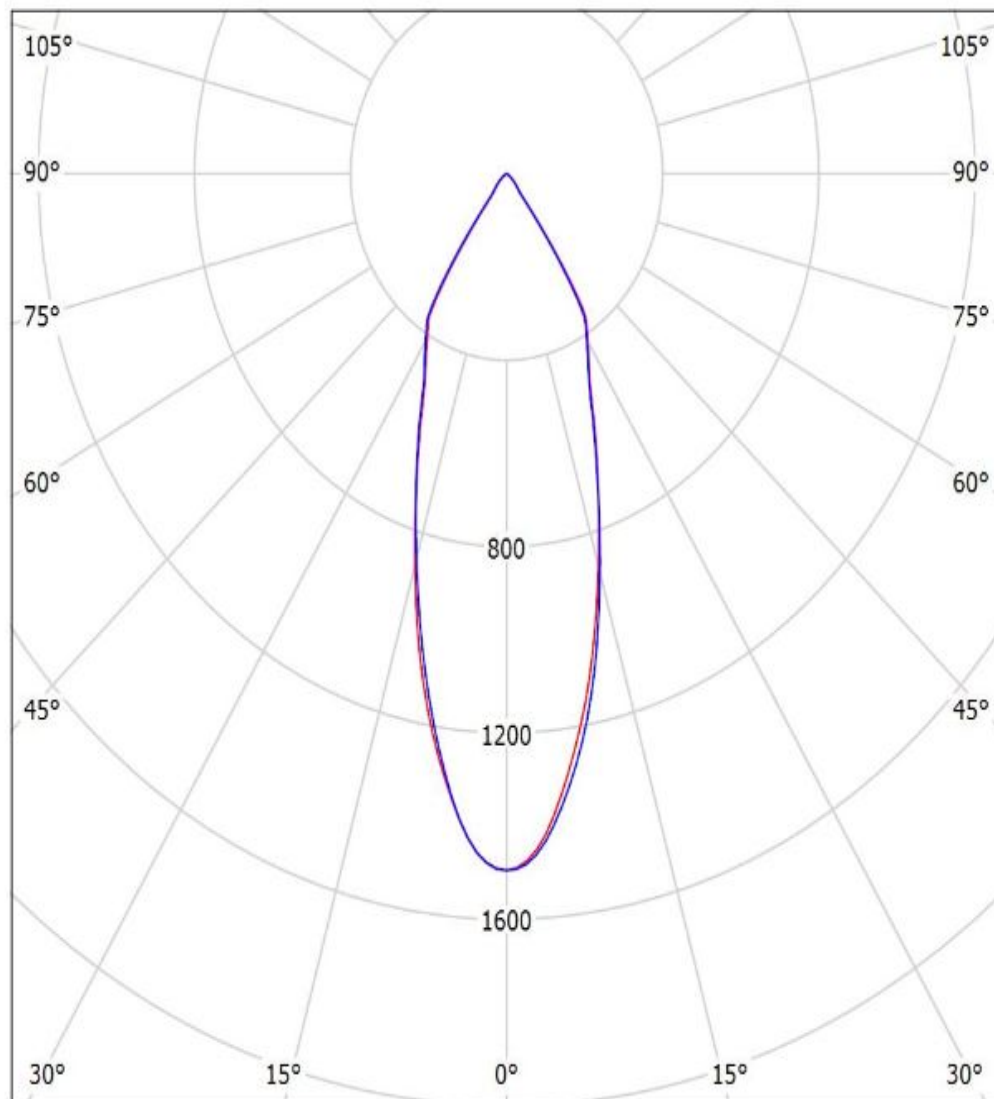
cd/klm

— C0 - C180 — C90 - C270

$\eta = 82\%$

Luminaire: Ledil F13381_ANGELA-W_(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



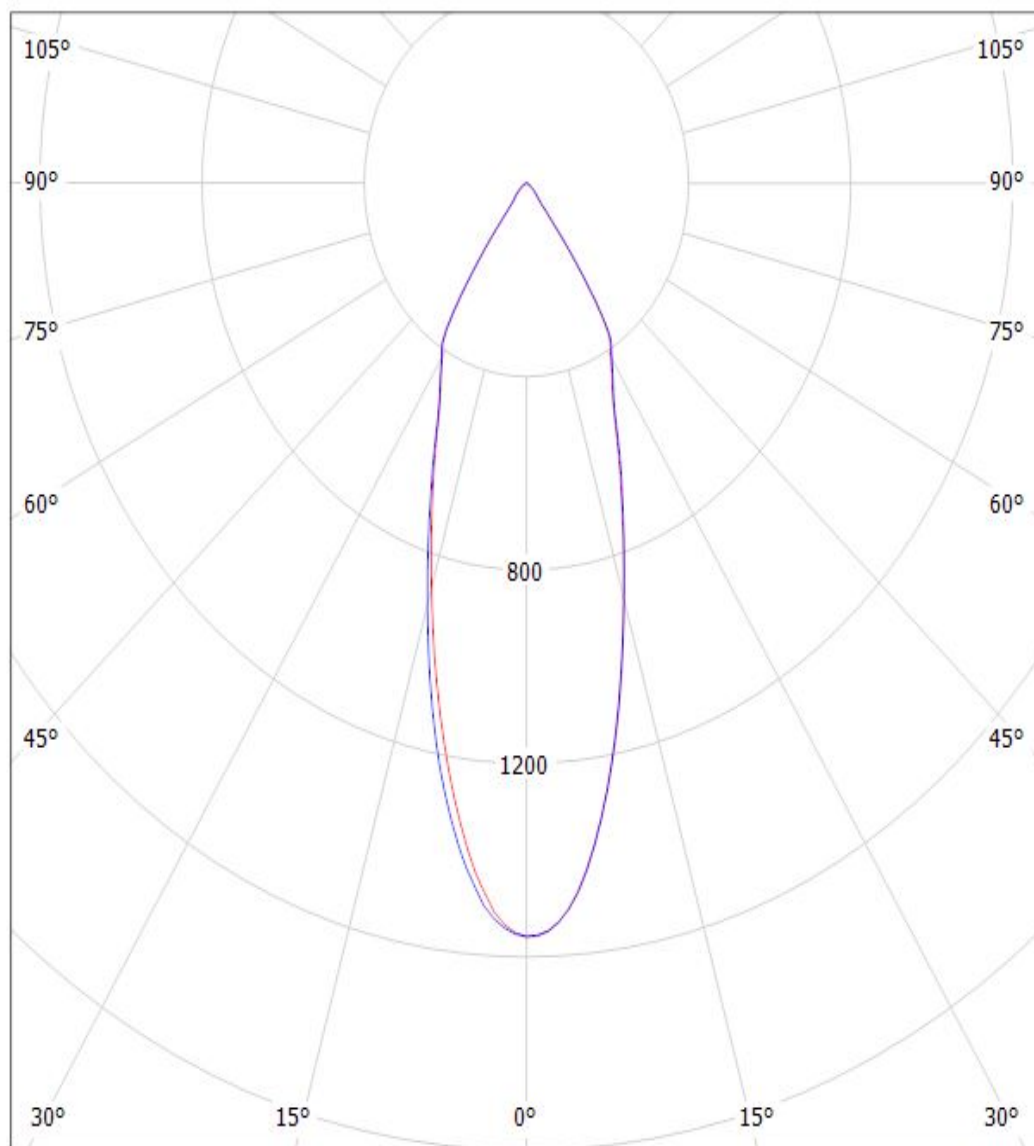
cd/klm

— C0 - C180 — C90 - C270

$\eta = 82\%$

Luminaire: LEDiL Oy F13381_ANGELA-W_(STARK_LES19)

Lamps: 1 x Tridonic_STARK_SLE_G3_LES19_(Stark-SLE-PURE-G3-19-2000-840-CLA)_1050.59lm@250mA_P=8.3639W_I=249.9mA



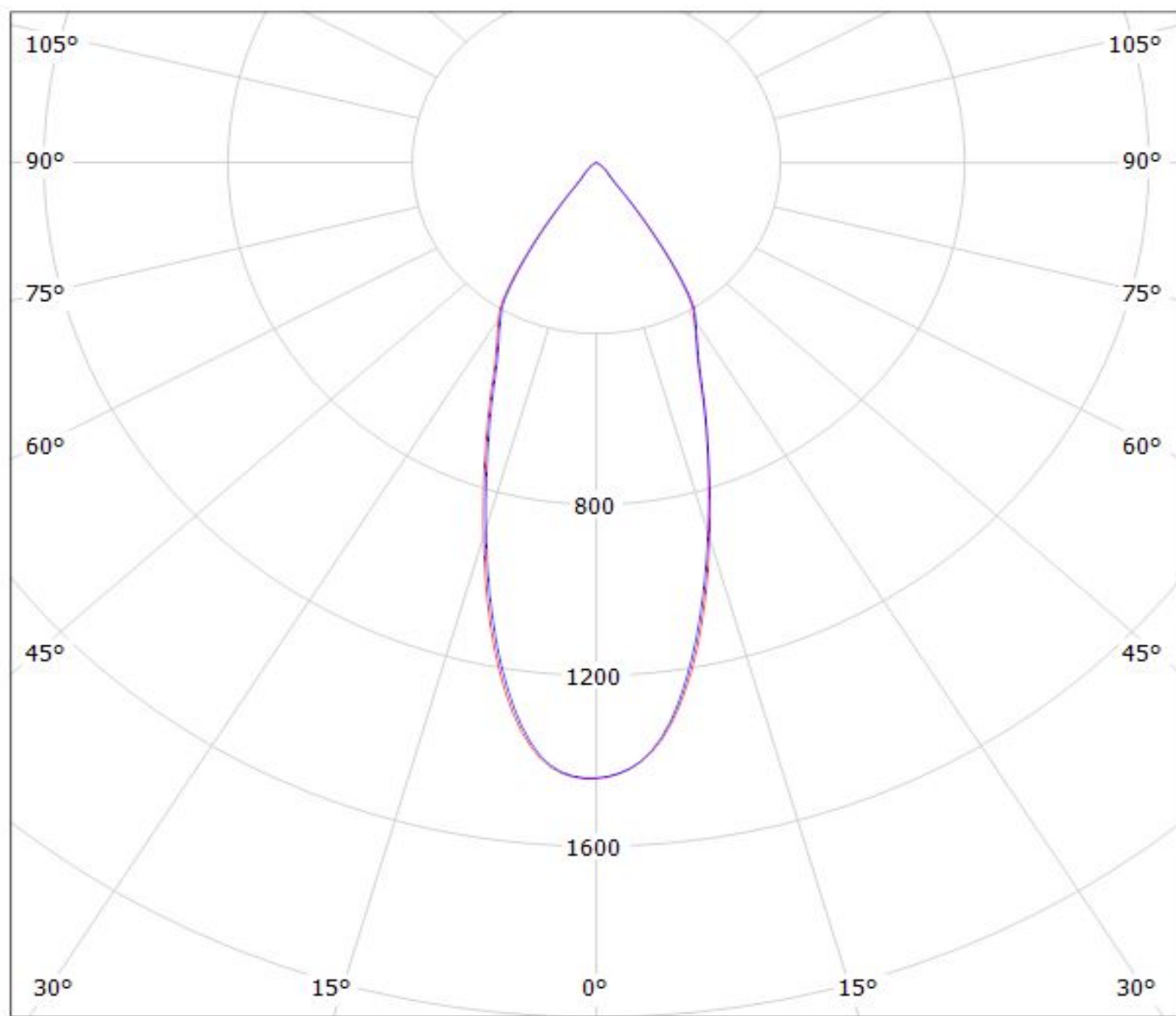
cd/klm

— C0 - C180 — C90 - C270

$\eta = 84\%$

Luminaire: LEDiL Oy F13381_ANGELA-W_(STARK_LES23) Eff.84.4%

Lamps: 1 x Tridonic_STARK_SLE_G3_LES23_802.87lm@250mA_P=8.2452W_I=249.9mA



cd/klm

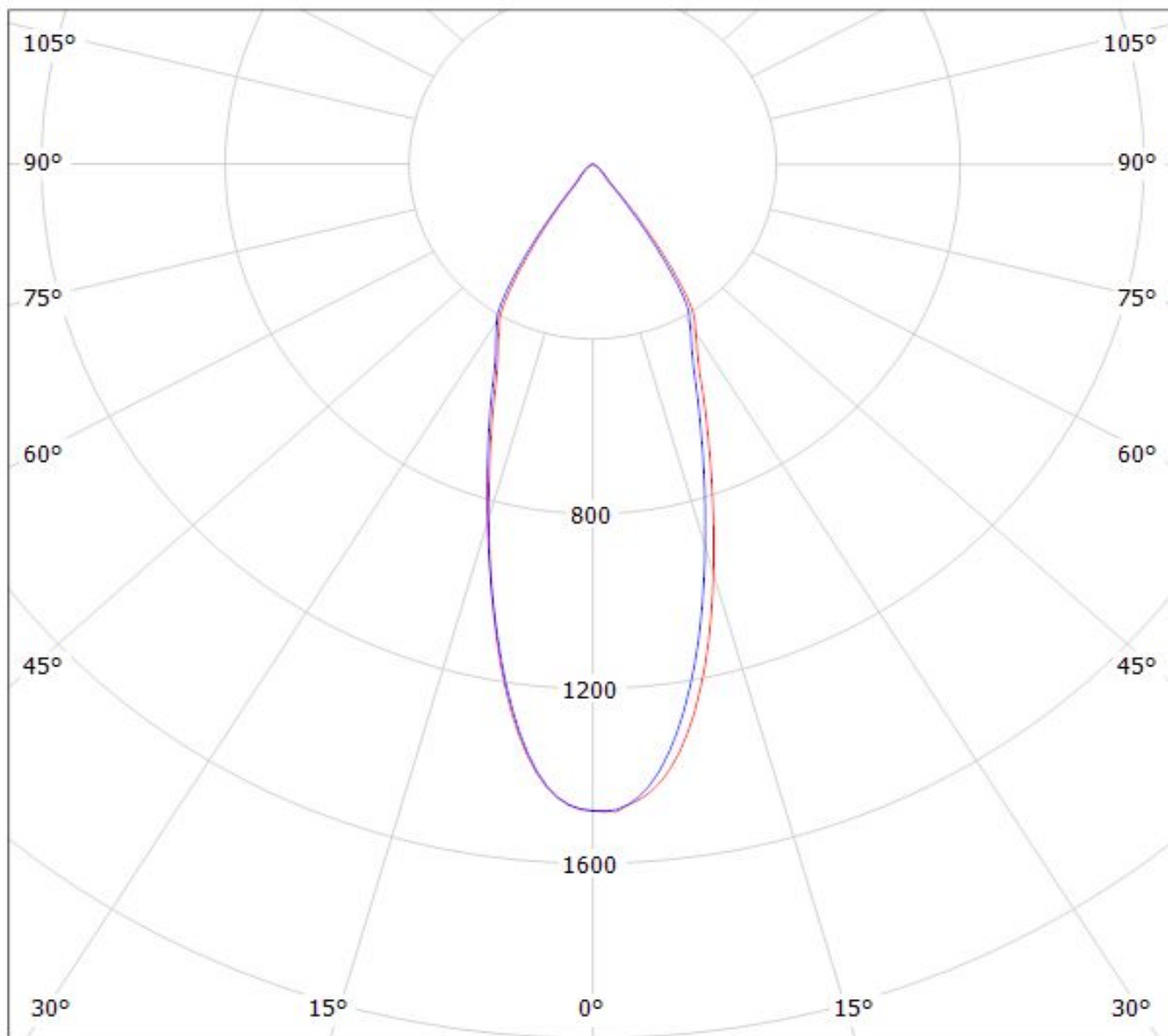
— C0 - C180

— C90 - C270

$\eta = 84\%$

Luminaire: LEDiL Oy F13381_ANGELA-W_(SLE_G4_LES23)

Lamps: 1 x Tridonic_SLE_G4_LES23_1354.57lm@250mA_P=8.18744W_I=0.2498A



cd/klm

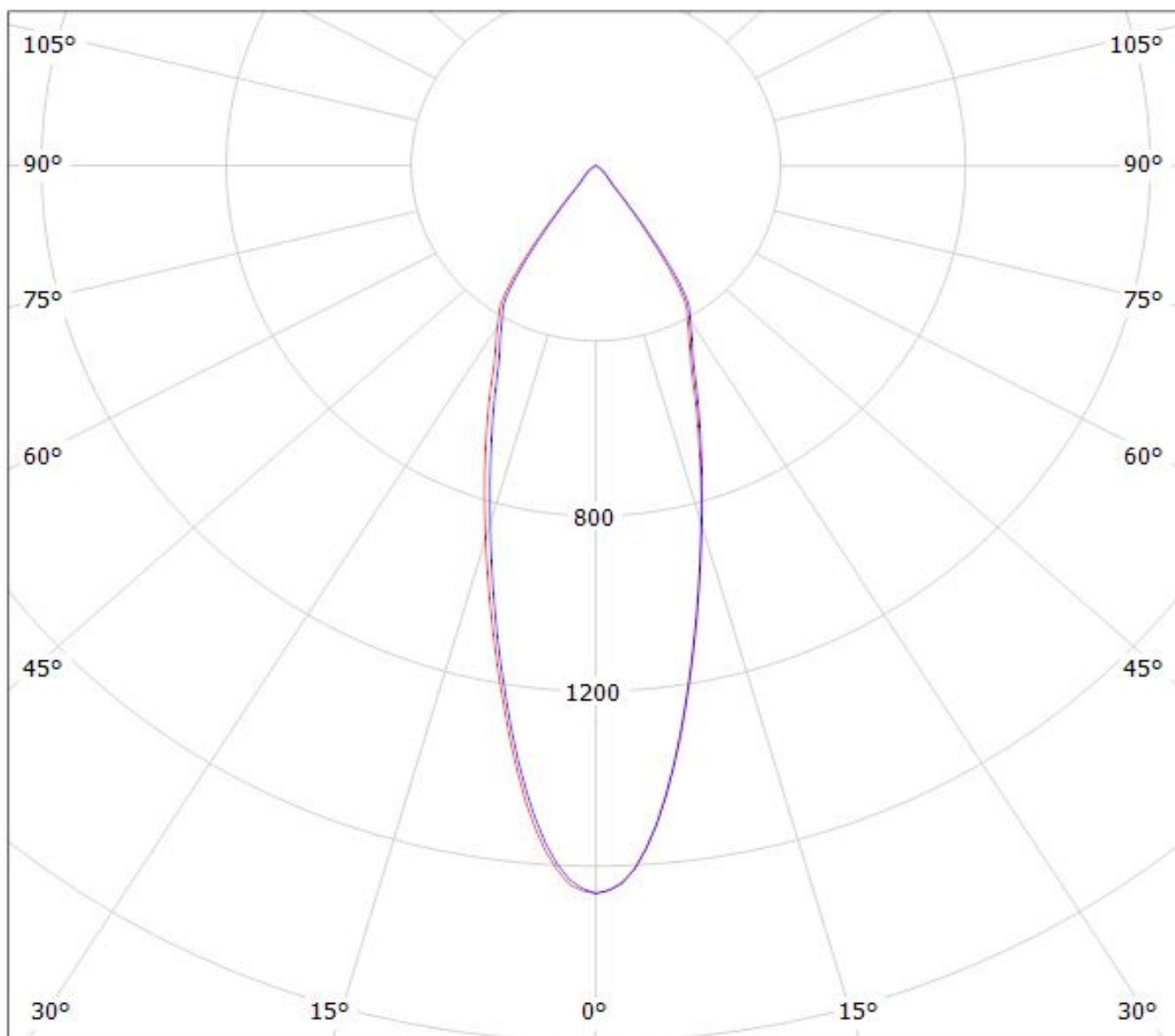
— C0 - C180

— C90 - C270

$\eta = 84\%$

Luminaire: LEDiL Oy F13381_ANGELA-W_(SLE GEN4 LES19)

Lamps: 1 x SLE GEN4 LES19_1227.01lm@250mA_P=8.21492W_I=0.2498A



cd/klm

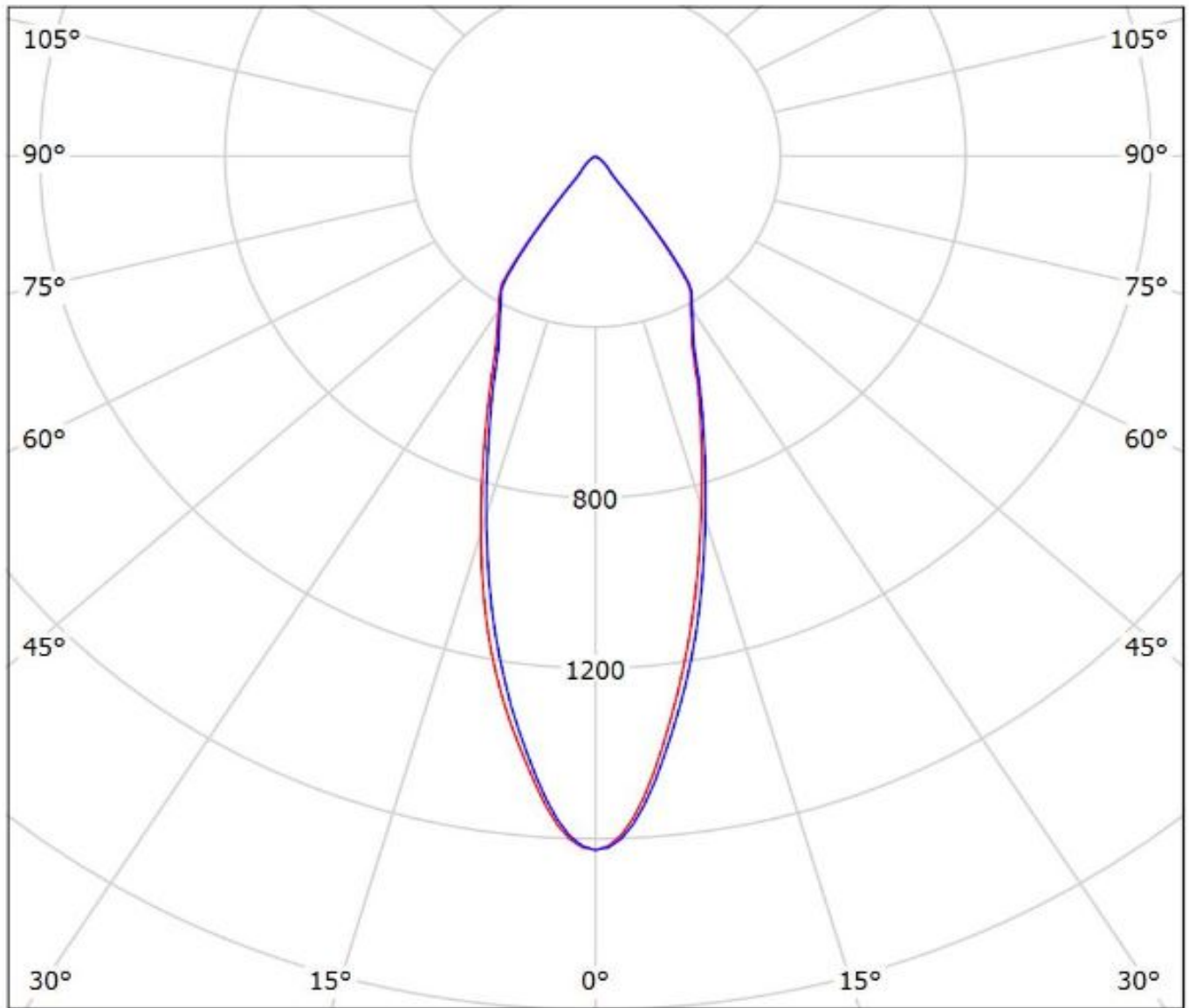
— C0 - C180

— C90 - C270

$\eta = 82\%$

Luminaire: LEDiL Oy F13381_ANGELA-W_(SLE-G5_LES-15)

Lamps: 1 x Tridonic_SLE-G5_LES-15_1238lm@250mA_P=8.6575W_I=0.250A



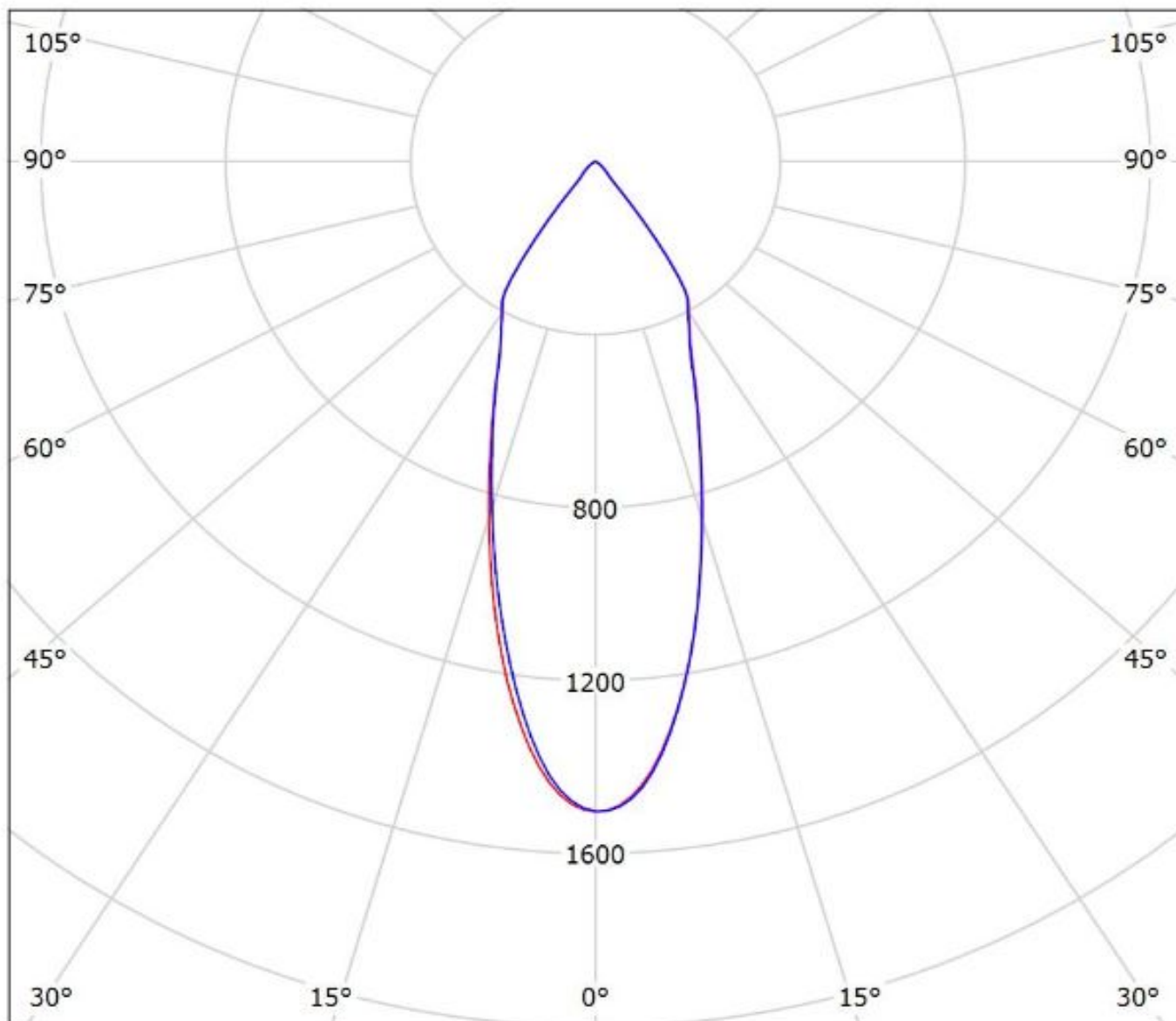
cd/klm

— C0 - C180 — C90 - C270

$\eta = 83\%$

Luminaire: LEDiL Oy F13381_ANGELA-W_(SLE-G5_LES-19)

Lamps: 1 x Tridonic_SLE-G5_LES-19_1334.47lm@250mA_P=8.2224W_I=0.250A



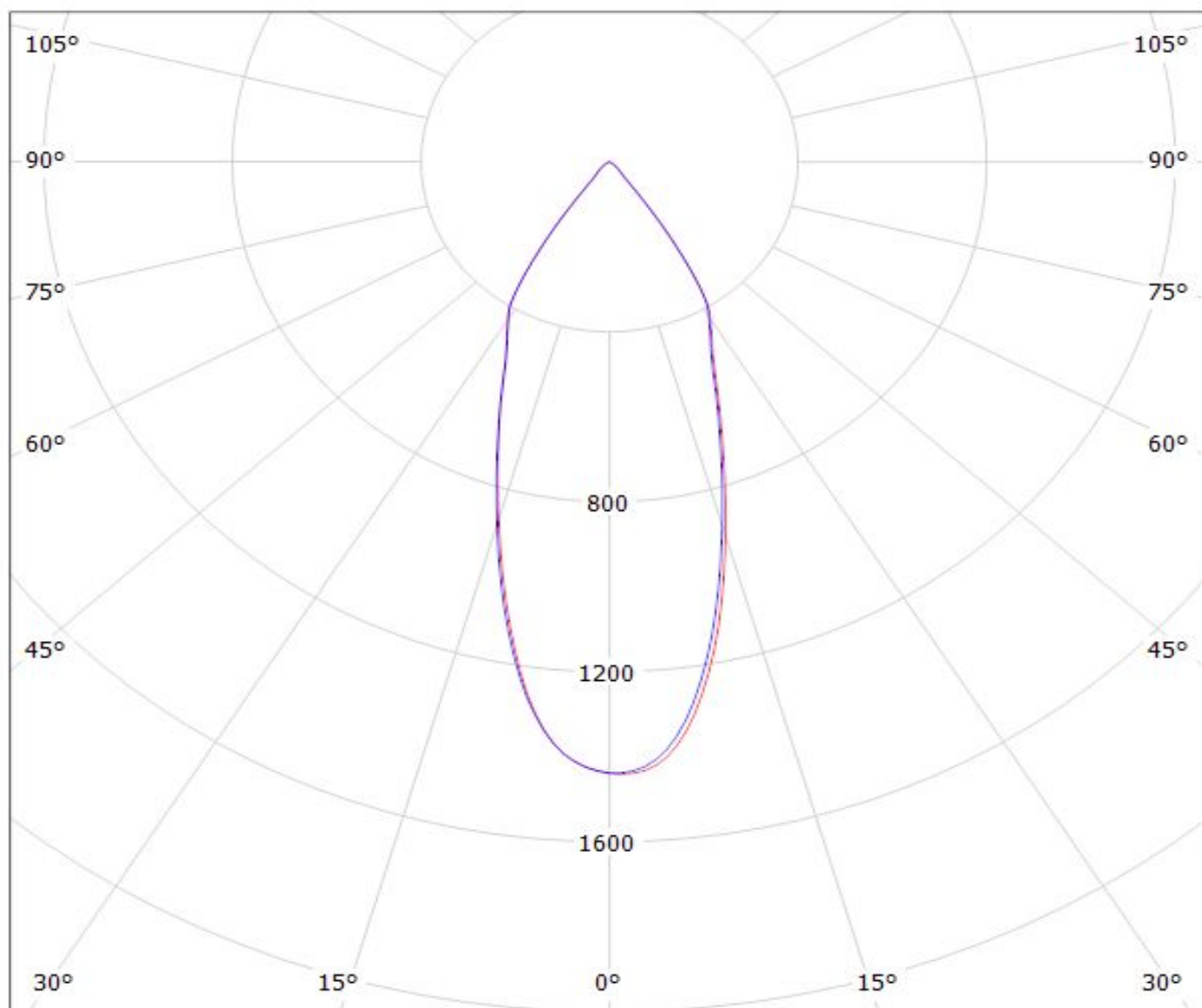
cd/klm

$\eta = 80\%$

— C0 - C180 — C90 - C270

Luminaire: LEDiL Oy F13381_ANGELA-W_(SLE-G5_LES-23)

Lamps: 1 x Tridonic_SLE-G5_LES-23_1303.96lm@250mA_P=8.1062W_I=0.250A



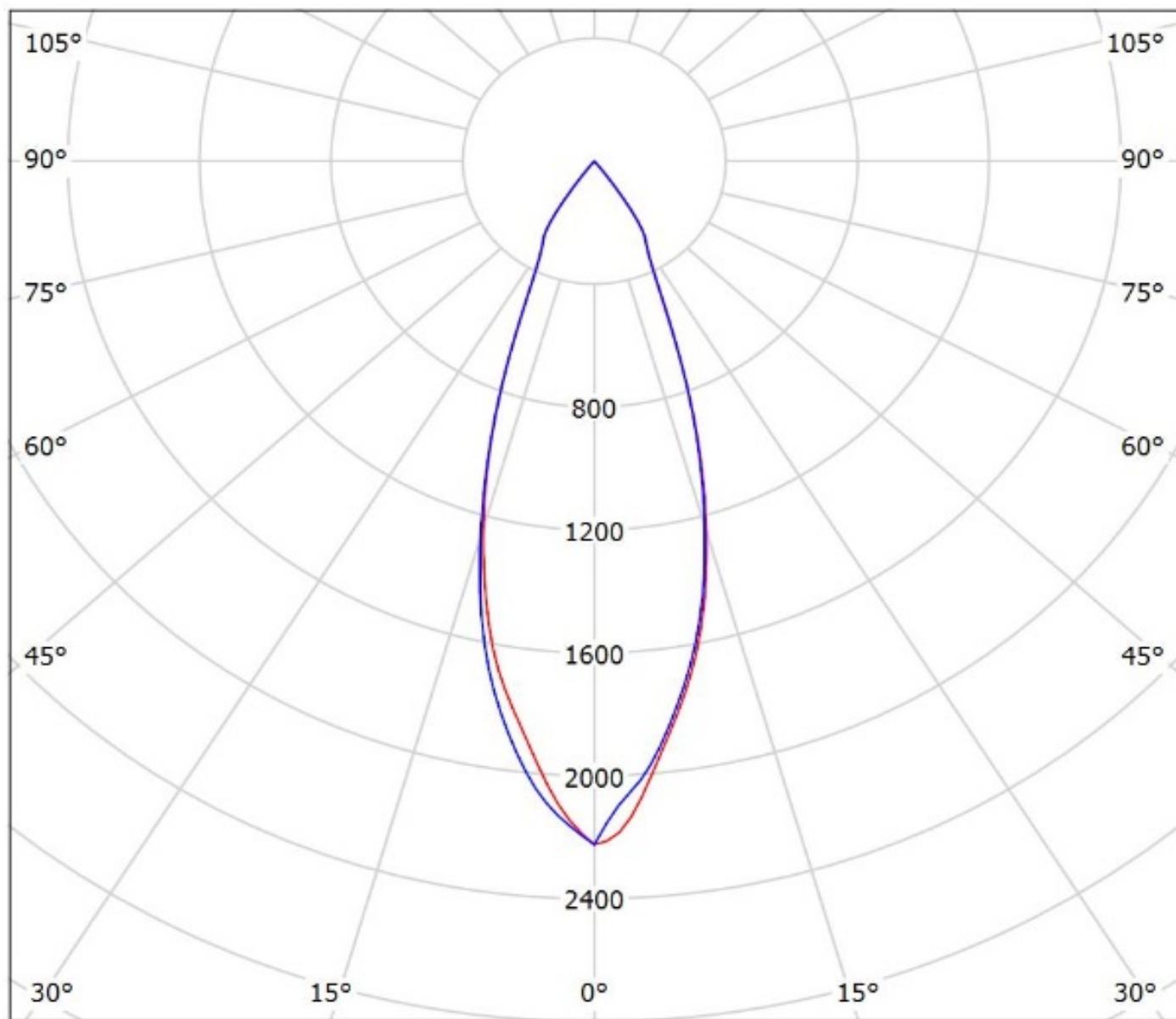
cd/klm

— C0 - C180

— C90 - C270

$\eta = 83\%$

Luminaire: Ledil Oy F13381_ANGELA-W_(SLE_G6_LES15)_(2213254-2_+ 2213194-1)_SIMULATED
Lamps: 1 x Tridonic SLE G5 LES15 + Tyco Electronics 2213254-2 + TE 2213194-1 optic clip

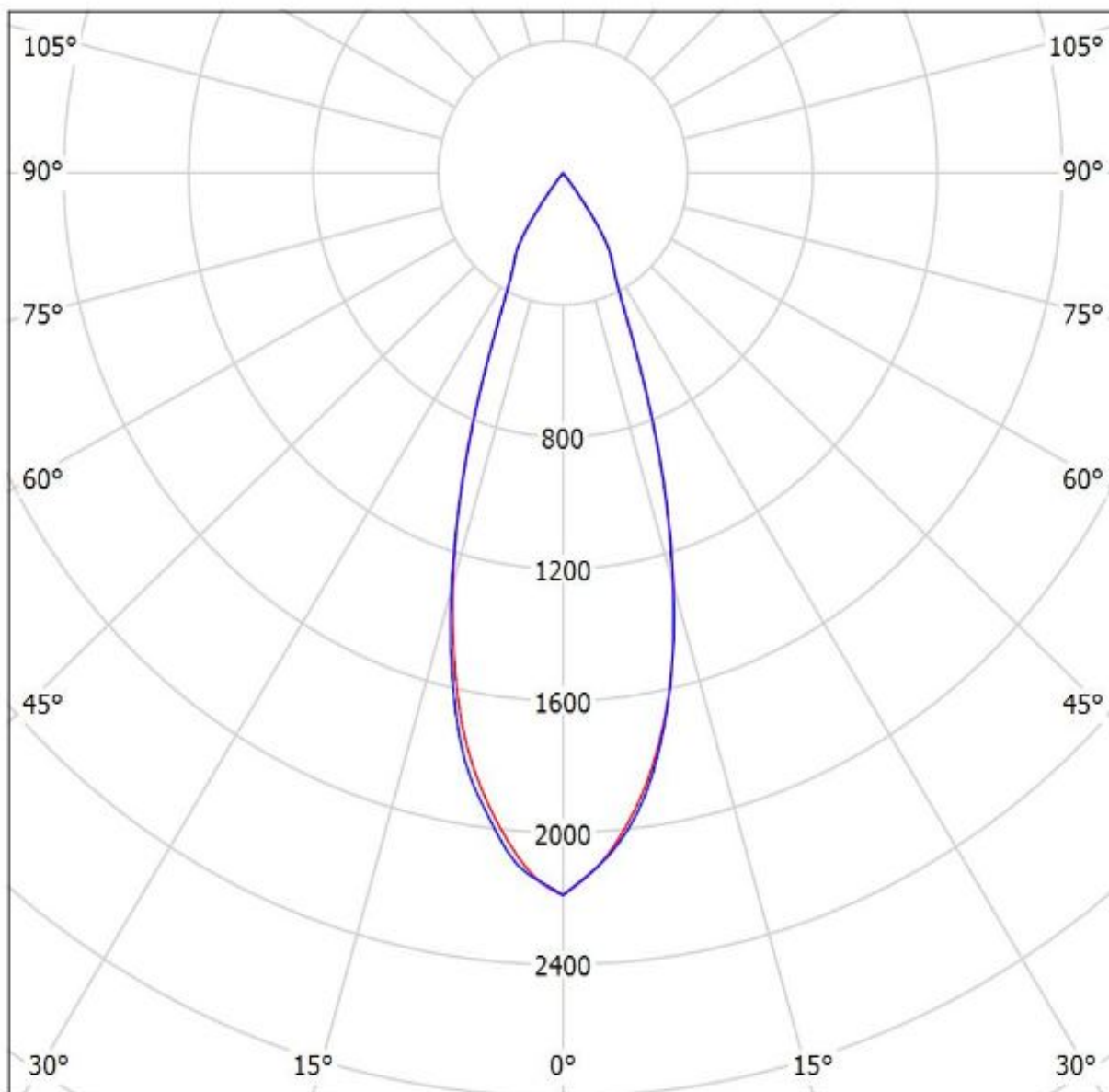


cd/klm

— C0 - C180 — C90 - C270

$\eta = 88\%$

Luminaire: Ledil Oy F13381_ANGELA-W+_TE_2213254-2+_TE_Z50_Type1_TRIDONIC_SLE_G6_LES17_SIMULATED
Lamps: 1 x TRIDONIC SLE G6 LES17

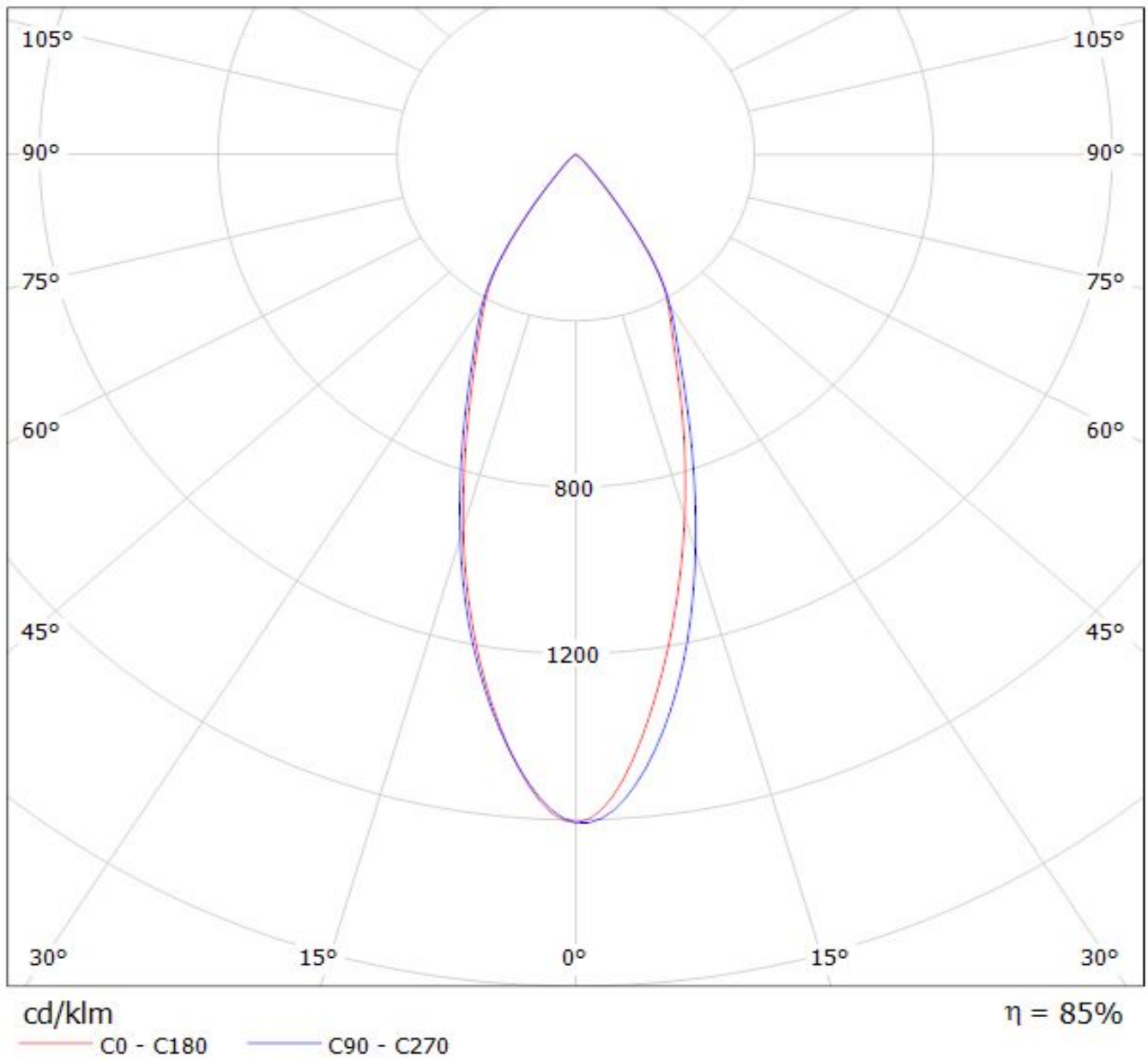


cd/klm

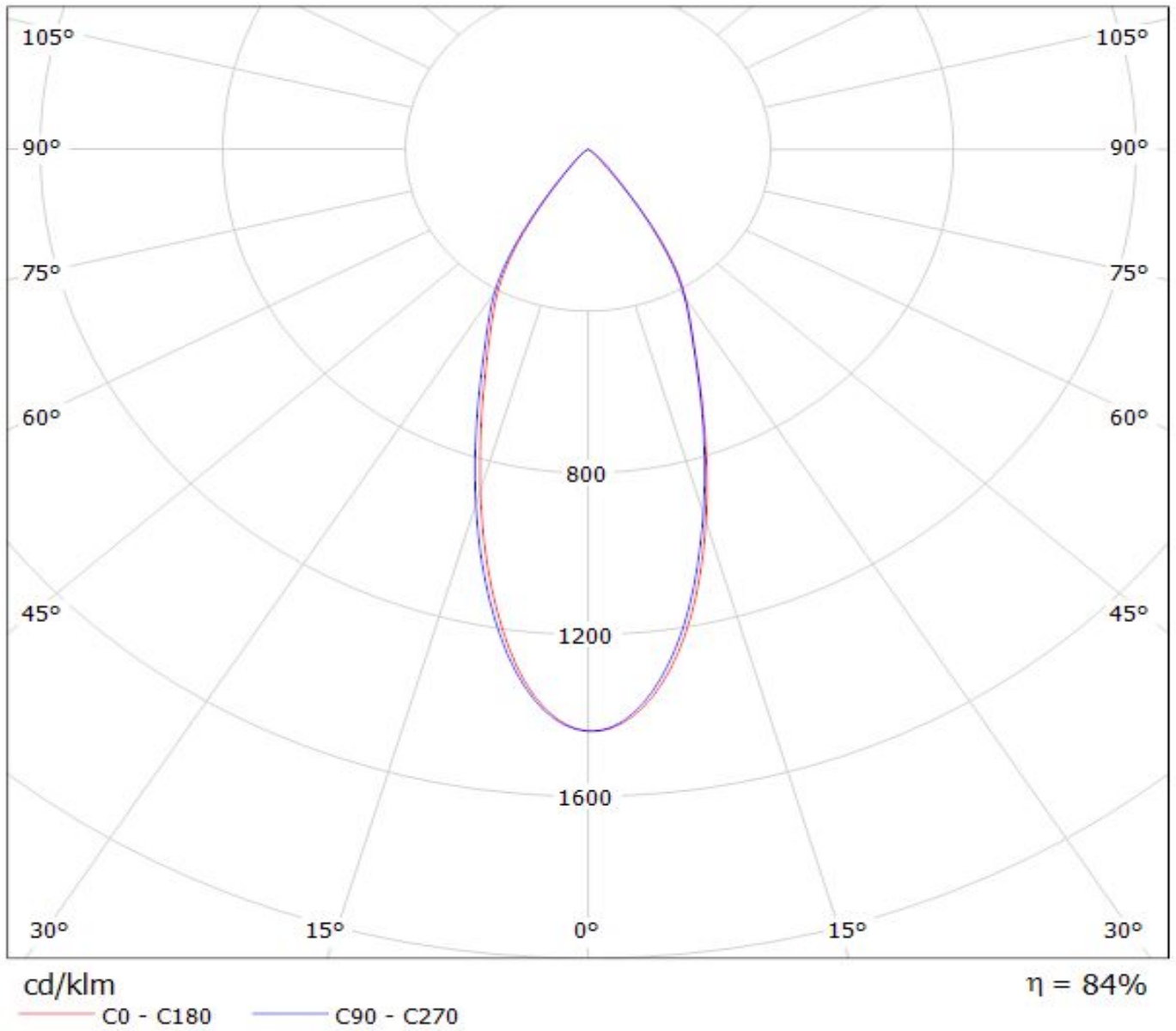
— C0 - C180 — C90 - C270

η = 90%

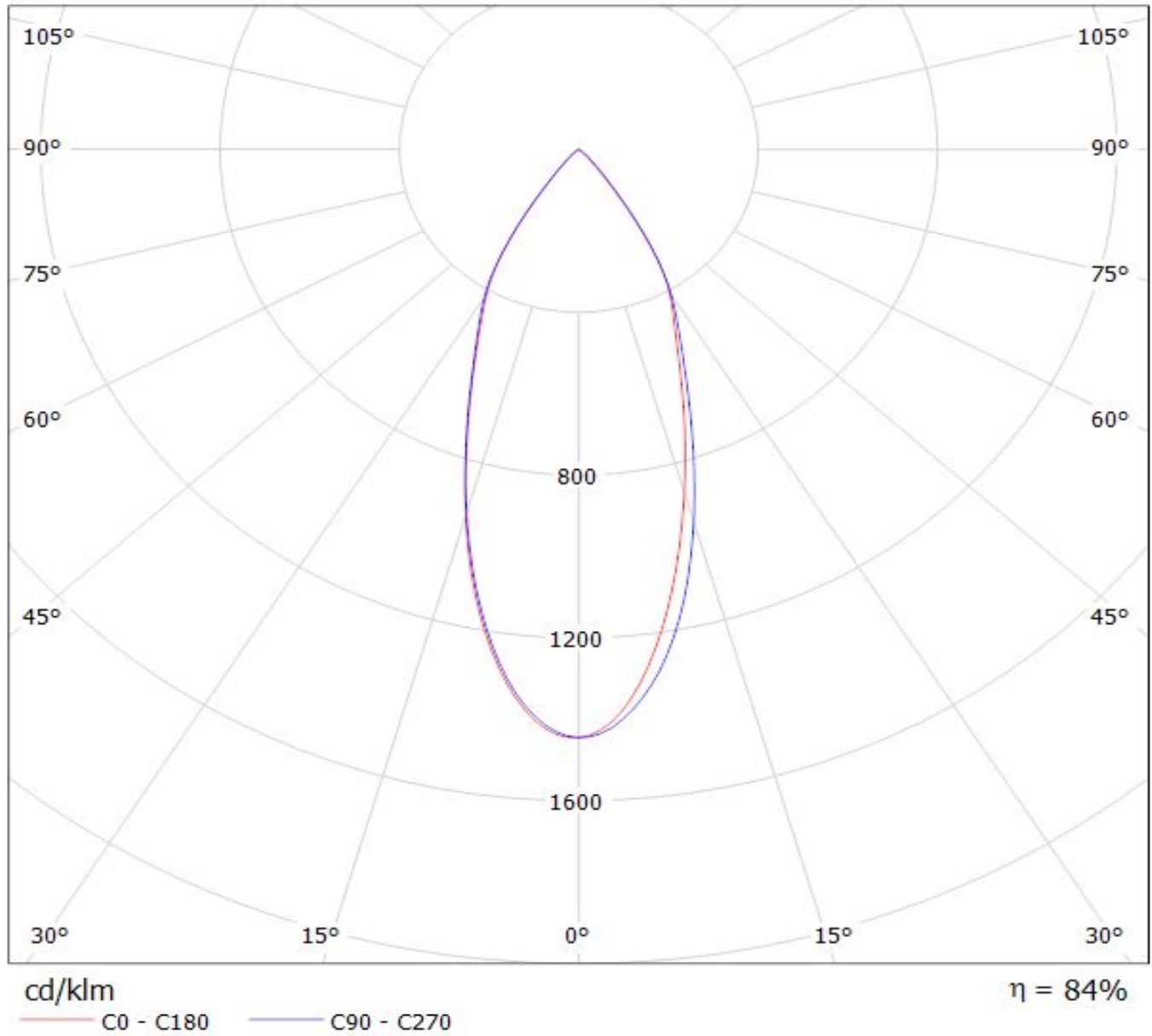
Luminaire: LEDiL F13381_ANGELA-W_(WU-M-461)
Lamps: 1 x Vossloh-Schwabe WU-M-461-827 767lm@250mA



Luminaire: LEDiL F13381_ANGELA-W_(WU-M-462)
Lamps: 1 x Vossloh-Schwabe WU-M-462-827 1140lm@250mA

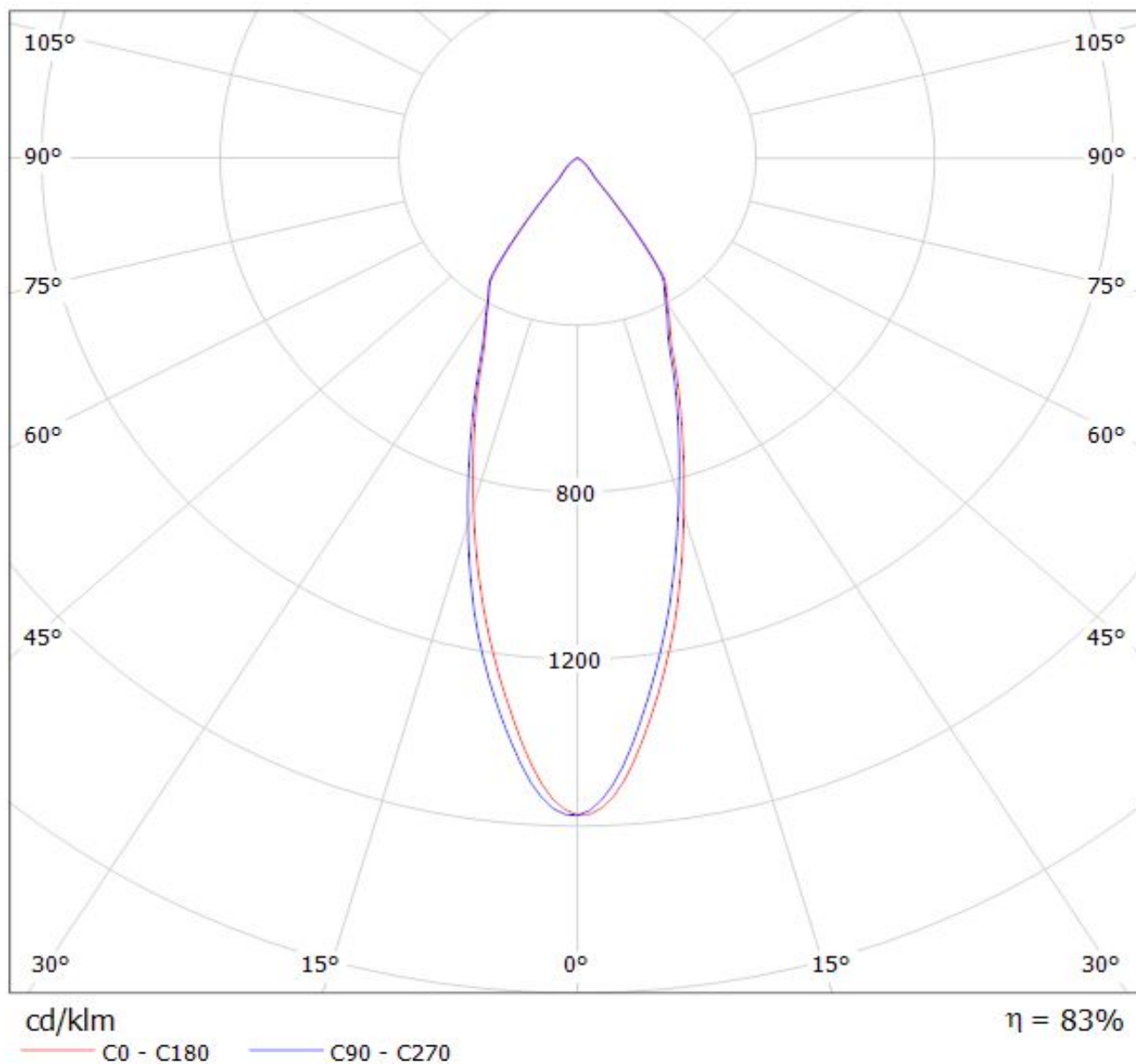


Luminaire: LEDiL F13381_ANGELA-W_(WU-M-464)
Lamps: 1 x Vossloh-Schwabe WU-M-464-827 1480lm@250mA



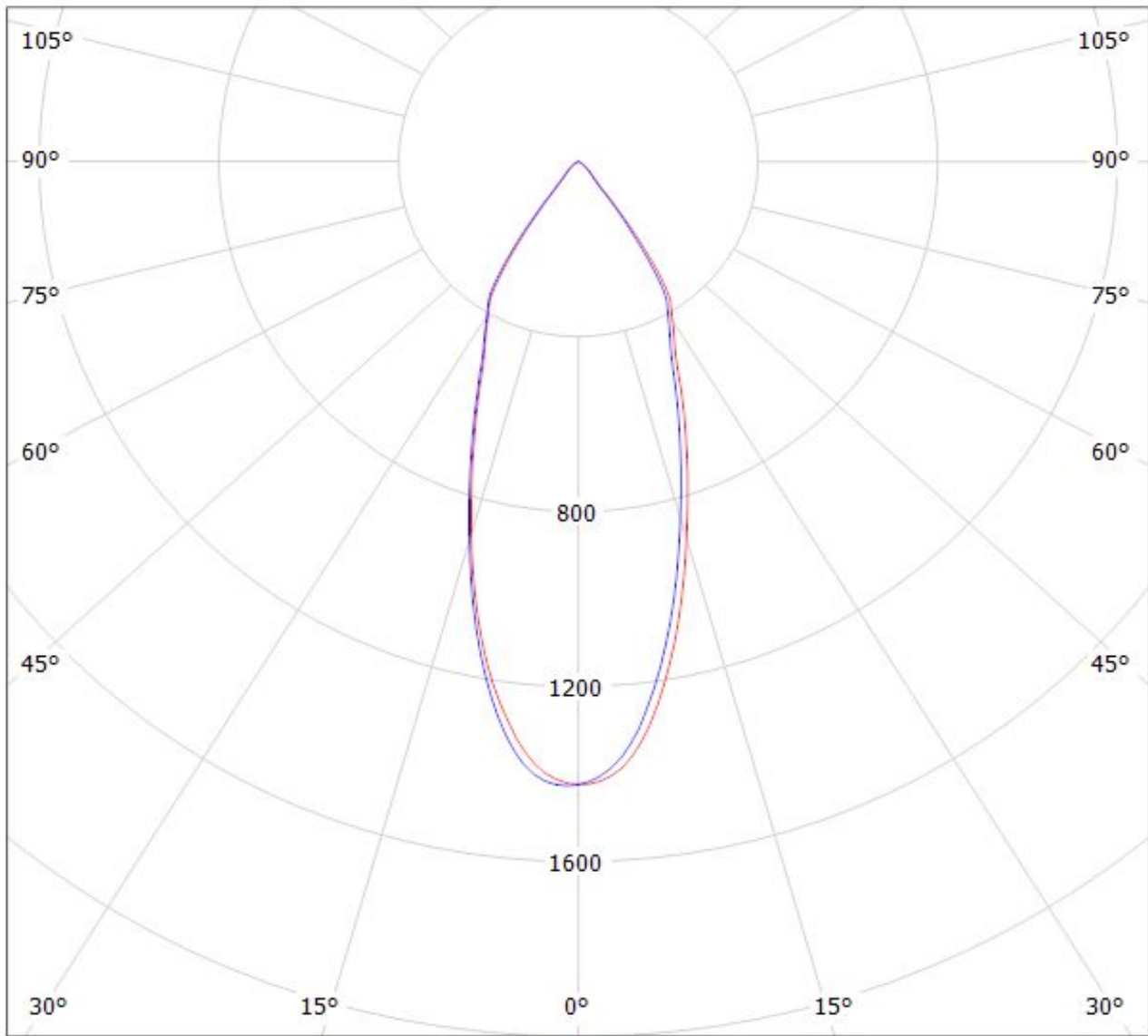
Luminaire: LEDiL Oy F13381_ANGELA-W_(WU-M-484)

Lamps: 1 x Vossloh_Schwabe-WU-M-484_(WU-M-484-830)_657.721lm@250mA_P=5.59451W_I=249.9mA



Luminaire: LEDiL Oy F13381_ANGELA-W_(WU-M-485)

Lamps: 1 x Vossloh_Schwabe-WU-M-485_(WU-M-485-830)_1209.62lm@250mA_P=8.43849W_I=249.8mA



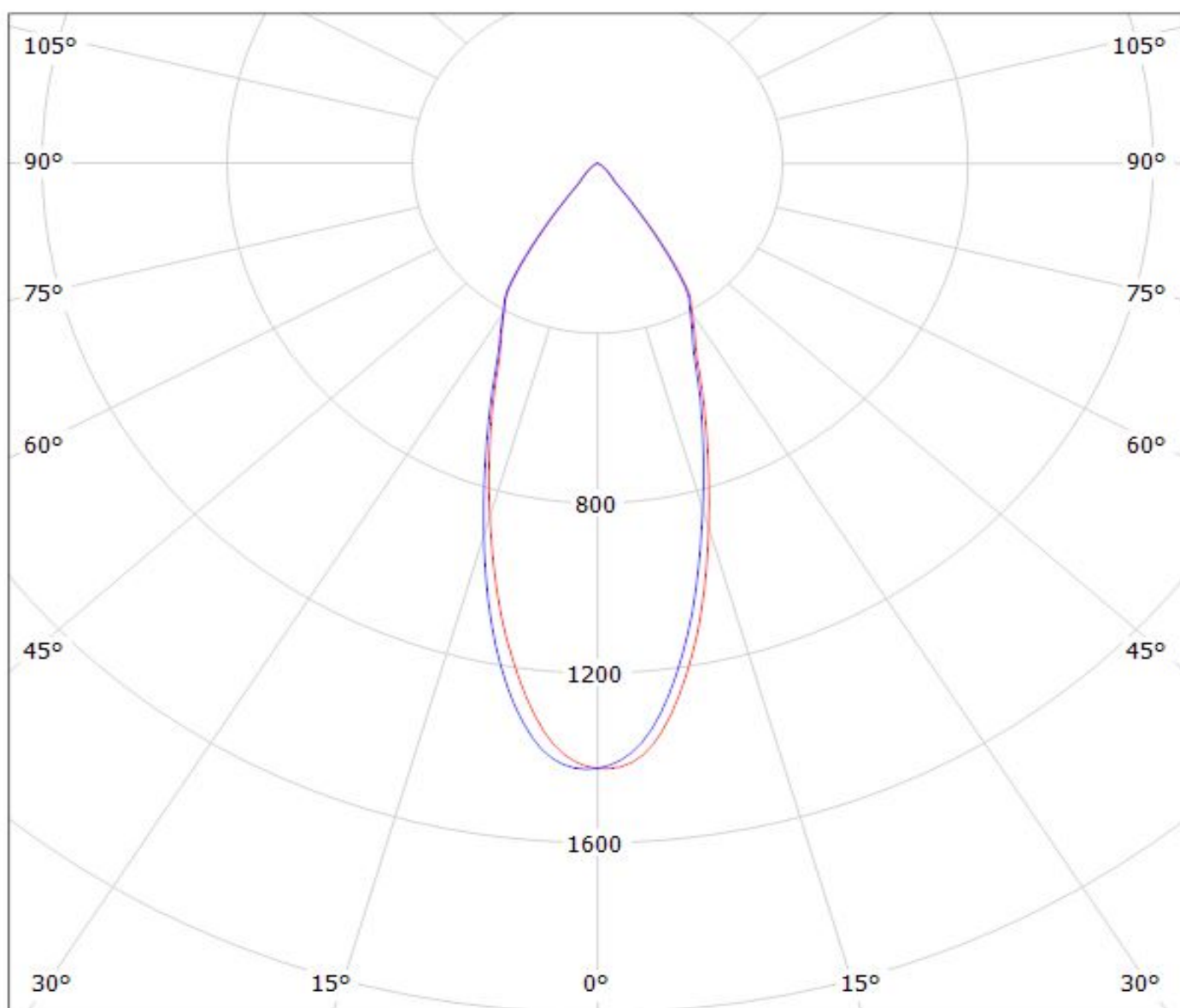
cd/klm

— C0 - C180

— C90 - C270

$\eta = 83\%$

Luminaire: LEDiL Oy F13381_ANGELA-W_(WU-M-486) Eff.83.2%
Lamps: 1 x Vossloh_Schwabe-WU-M-486_(WU-M-486-830)
_1474.55lm@250mA_P=10.4456W_I=249.8mA



cd/klm

— C0 - C180 — C90 - C270

$\eta = 83\%$

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.