

DETAILS

Product Number	F13380_ANGELA-M
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	16 deg	Medium	84 %	3.800	TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1
V22 Gen7	sim: 17	Medium	sim: 93 %	sim: 6.339	IDEAL: 50-2204-CT + 50-2100AN
V13 Gen7	sim: 14,5	Medium	sim: 91 %	sim: 7.530	IDEAL: 50-2103CT + 50-2100AN
CLL03x/CLU03x	14 deg	Medium	84 %	4.100	IDEAL: 50-2103CT + 50-2100AN
CLU720/721	12 deg	Medium	87 %	4.400	IDEAL: 50-2103CT + 50-2100AN
CLU720/721	14 deg	Medium	87 %	4.000	TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1
CXA/B 3590	27 deg	Medium	85 %	2.070	IDEAL: 50-2303CR + 50-2300AN
CXA/B 1830	sim: 17	Medium	sim: 88 %	sim: 5.900	TE: 2213401-2 + OPTIC CLIP Z50 TYPE1 2213194-1
LUXEON CoB 1204/1205	15 deg	Medium	85 %	3.930	TE: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1
LUXEON CoB 1208	16 deg	Medium	85 %	3.700	TE: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1
LUXEON CoB 1208	16 deg	Medium	83 %	3.600	IDEAL: 50-2100SH + 50-2100AN
LUXEON CoB 1211	19 deg	Medium	83 %	2.900	IDEAL: 50-2204-CT + 50-2100AN
LUXEON CoB 1216	22 deg	Medium	83 %	2.500	IDEAL: 50-2204-CT + 50-2100AN
CXM-14	16 deg	Medium	85 %	3.860	TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1
COB L-Type (LES 11)	16 deg	Medium	86 %	3.740	Molex: 180580-0005
COB L-Type (LES 11)	15 deg	Medium	84 %	5.350	TE: 2213382-2 + OPTIC CLIP Z50 TYPE1 2213194-1
COB J-Type	17 deg	Medium	83 %	3.890	IDEAL: 50-2103NC + 50-2100AN
PrevaLED Core Z3 LES9	12 deg	Medium	85 %	5.190	TE: OPTIC CLIP Z50 TYPE1 2213194-1
PrevaLED Core Z3 LES19	17 deg	Medium	85 %	3.470	TE: OPTIC CLIP Z50 TYPE1 2213194-1
PrevaLED Core Z3 LES23	20 deg	Medium	85 %	2.930	TE: OPTIC CLIP Z50 TYPE1 2213194-1
Soleriq S13	15 deg	Medium	86 %	4.200	TE: 2213401-2 + OPTIC CLIP Z50 TYPE1 2213194-1
Soleriq S19	17 deg	Medium	86 %	3.510	TE: 2213407-2 + OPTIC CLIP Z50 TYPE1 2213194-1
PrevaLED Core AC (LEP-800)	13 deg	Medium	86 %	4.560	TE: OPTIC CLIP Z50 TYPE1 2213194-1
PrevaLED Core AC (LEP-2000)	17 deg	Medium	85 %	3.470	TE: OPTIC CLIP Z50 TYPE1 2213194-1
PrevaLED Core Z4 LES19	16 deg	Medium	85 %	3.600	TE: OPTIC CLIP Z50 TYPE1 2213194-1

OPTICAL PROPERTIES

LED	Viewing Angle	Light Beam	Efficiency	cd/lm	Connector
Soleriq P13	15 deg	Medium	85 %	3.900	TE: 2213401-2 + OPTIC CLIP Z50 TYPE1 2213194-1
Soleriq S15	sim: 16	Medium	sim: 90 %	sim: 6.750	TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1
Fortimo LED SLM L9 G4 standard	12 deg	Medium	85 %	4.900	TE: OPTIC CLIP Z50 TYPE1 2213194-1
Fortimo LED SLM L13 G4 standard	15 deg	Medium	85 %	4.100	TE: OPTIC CLIP Z50 TYPE1 2213194-1
Fortimo LED SLM L15 G4 standard	16 deg	Medium	85 %	3.700	TE: OPTIC CLIP Z50 TYPE1 2213194-1
Fortimo LED SLM L19 G4 standard	19 deg	Medium	84 %	3.100	TE: OPTIC CLIP Z50 TYPE1 2213194-1
Fortimo SLM G5 LES 9 Standard	13 deg	Medium	84 %	4.870	TE: OPTIC CLIP Z50 TYPE1 2213194-1
Fortimo SLM G5 LES 15 Standard	16 deg	Medium	82 %	3.580	TE: OPTIC CLIP Z50 TYPE1 2213194-1
Fortimo SLM G5 LES 19 Standard	19 deg	Medium	81 %	2.980	TE: OPTIC CLIP Z50 TYPE1 2213194-1
Fortimo SLM G5 LES 13 Standard	15 deg	Medium	84 %	4.000	TE: OPTIC CLIP Z50 TYPE1 2213194-1
Fortimo SLM 1211 L19 G6 Standard	19 deg	Medium	82 %	3.000	TE: OPTIC CLIP Z50 TYPE1 2213194-1
LC026B/LC040B	18 deg	Medium	85 %	3.300	TE: 2213258-2 + OPTIC CLIP Z50 TYPE1 2213194-1
LC040C	15 deg	Medium	83 %	4.000	TE: 2213382-2 + OPTIC CLIP Z50 TYPE1 2213194-1
MJT COB LES 14.5	17 deg	Medium	82 %	3.300	TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1
STARK SLE G3 LES19	18 deg	Medium	85 %	3.360	TE: OPTIC CLIP Z50 TYPE1 2213194-1
STARK SLE G3 LES23	21 deg	Medium	85 %	2.800	TE: OPTIC CLIP Z50 TYPE1 2213194-1
SLE G4 LES23 H	20 deg	Medium	85 %	2.900	TE: OPTIC CLIP Z50 TYPE1 2213194-1
SLE G4 LES19 H	17 deg	Medium	83 %	3.300	TE: OPTIC CLIP Z50 TYPE1 2213194-1
SLE G5 LES15	15 deg	Medium	84 %	3.900	TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1
SLE G5 LES19 H	17 deg	Medium	81 %	3.300	TE: OPTIC CLIP Z50 TYPE1 2213194-1
SLE G5 LES23 H	20 deg	Medium	85 %	2.900	TE: OPTIC CLIP Z50 TYPE1 2213194-1
SLE G6 LES15	sim: 17	Medium	sim: 89 %	sim: 6.200	TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1
SLE G6 LES17	sim: 18	Medium	sim: 91 %	sim: 6.100	TE: 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1
WU-M-461	17 deg	Medium	83 %	3.450	TE: OPTIC CLIP Z50 TYPE1 2213194-1
WU-M-462	20 deg	Medium	85 %	3.000	TE: OPTIC CLIP Z50 TYPE1 2213194-1
WU-M-464	20 deg	Medium	85 %	3.000	TE: OPTIC CLIP Z50 TYPE1 2213194-1
WU-M-484	17 deg	Medium	85 %	3.600	TE: OPTIC CLIP Z50 TYPE1 2213194-1
WU-M-485	20 deg	Medium	85 %	2.890	TE: OPTIC CLIP Z50 TYPE1 2213194-1
WU-M-486	20 deg	Medium	84 %	2.900	TE: OPTIC CLIP Z50 TYPE1 2213194-1

D

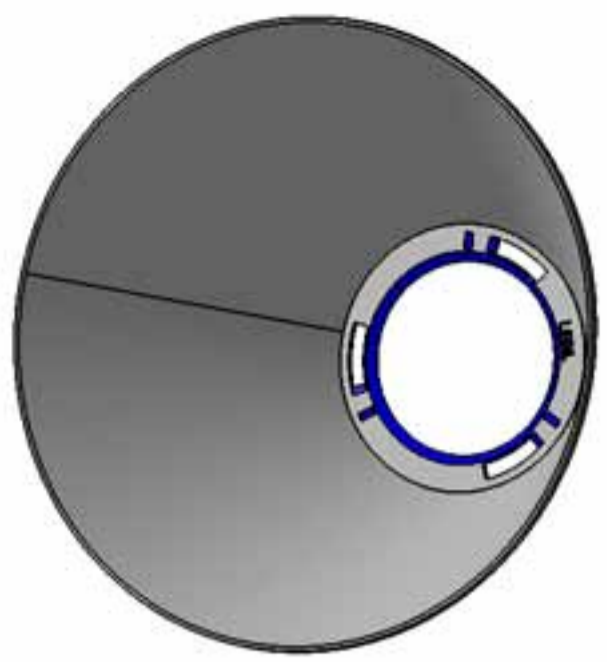
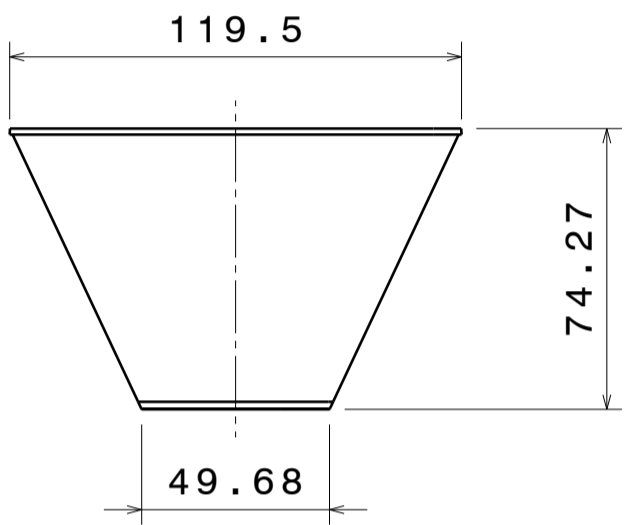
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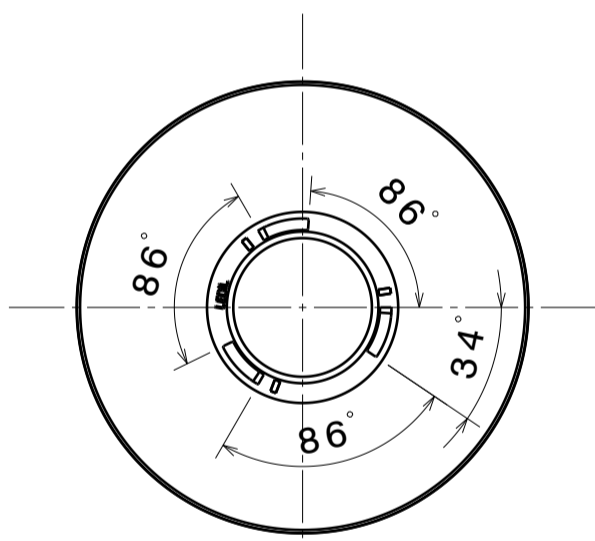
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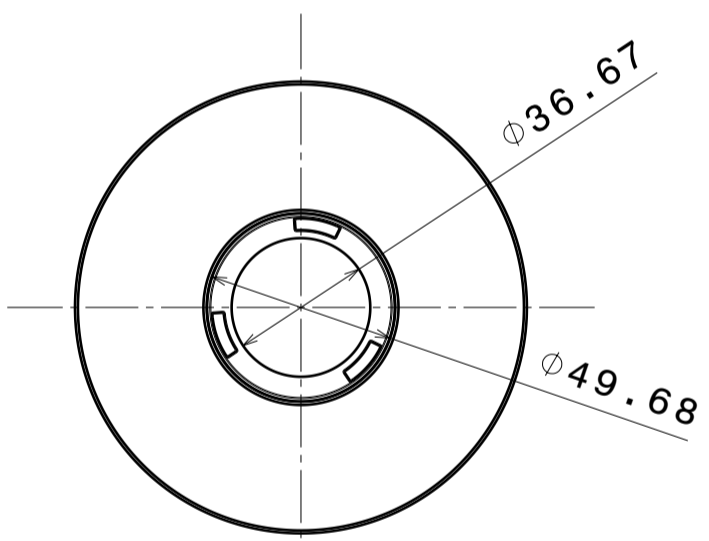
8
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ISOMETRIC VIEW



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."

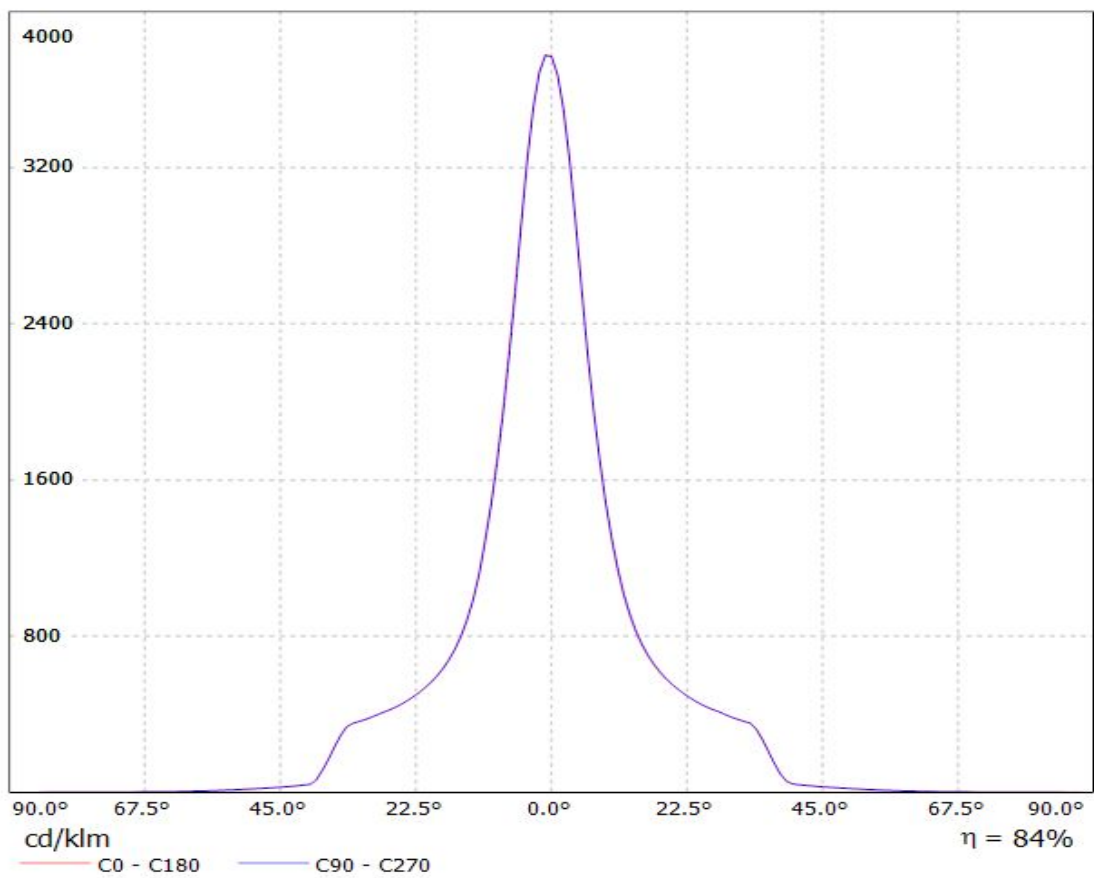
		LediL Oy Salorankatu 10 FIN 24240 SALO Finland	
DRAWING TITLE		ANGELA_Datasheet	
SIZE	PART NUMBER		
A3	-		
SCALE	1:1	WEIGHT	-
SHEET		1/1	

D

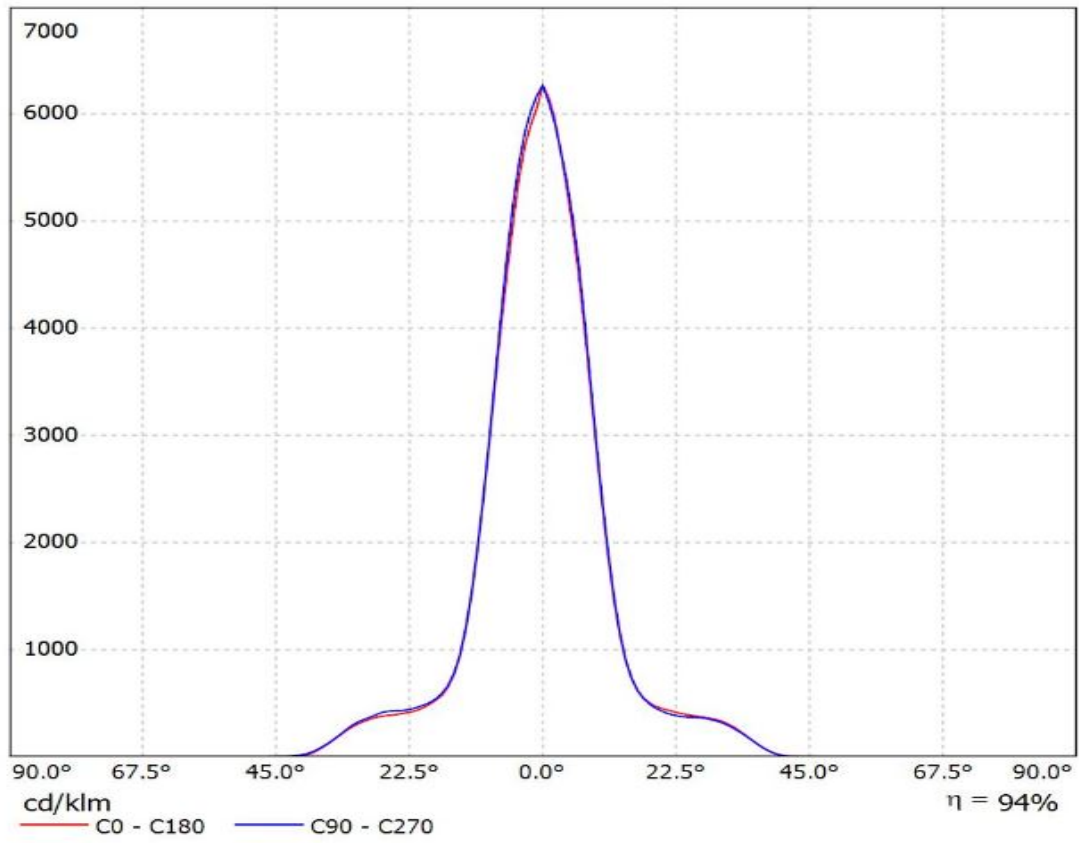
A

Luminaire: LEDiL Oy F13380_ANGELA-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

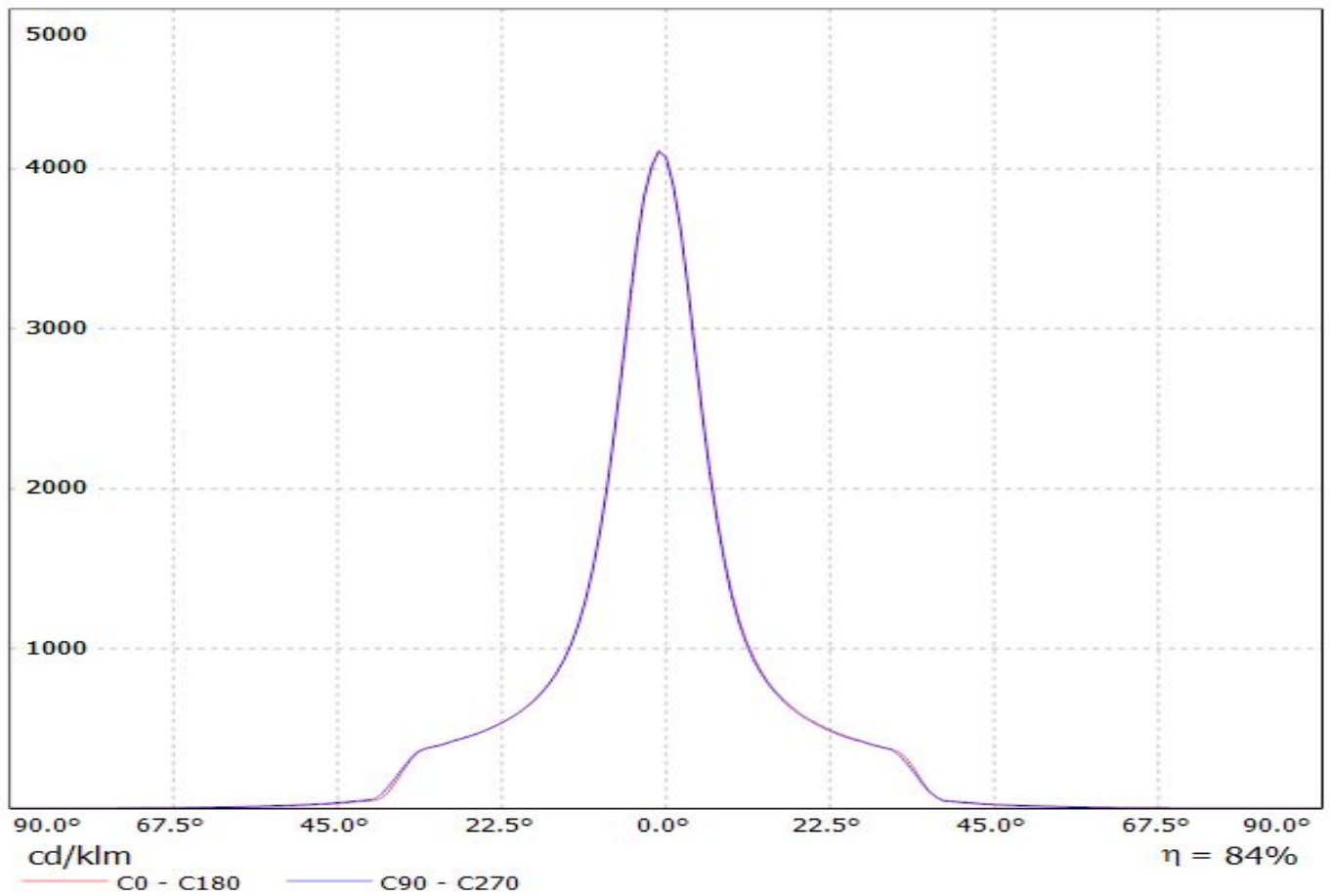


Luminaire: Ledil Oy F13380_ANGELA-M_Bridgelux_V22_Gen7_SIMULATED F13380_ANGELA-M_Bridgelux_V22_Gen7_SIMULATED
Lamps: 1 x F13380_ANGELA-M_Bridgelux_V22_Gen7_SIMULATED

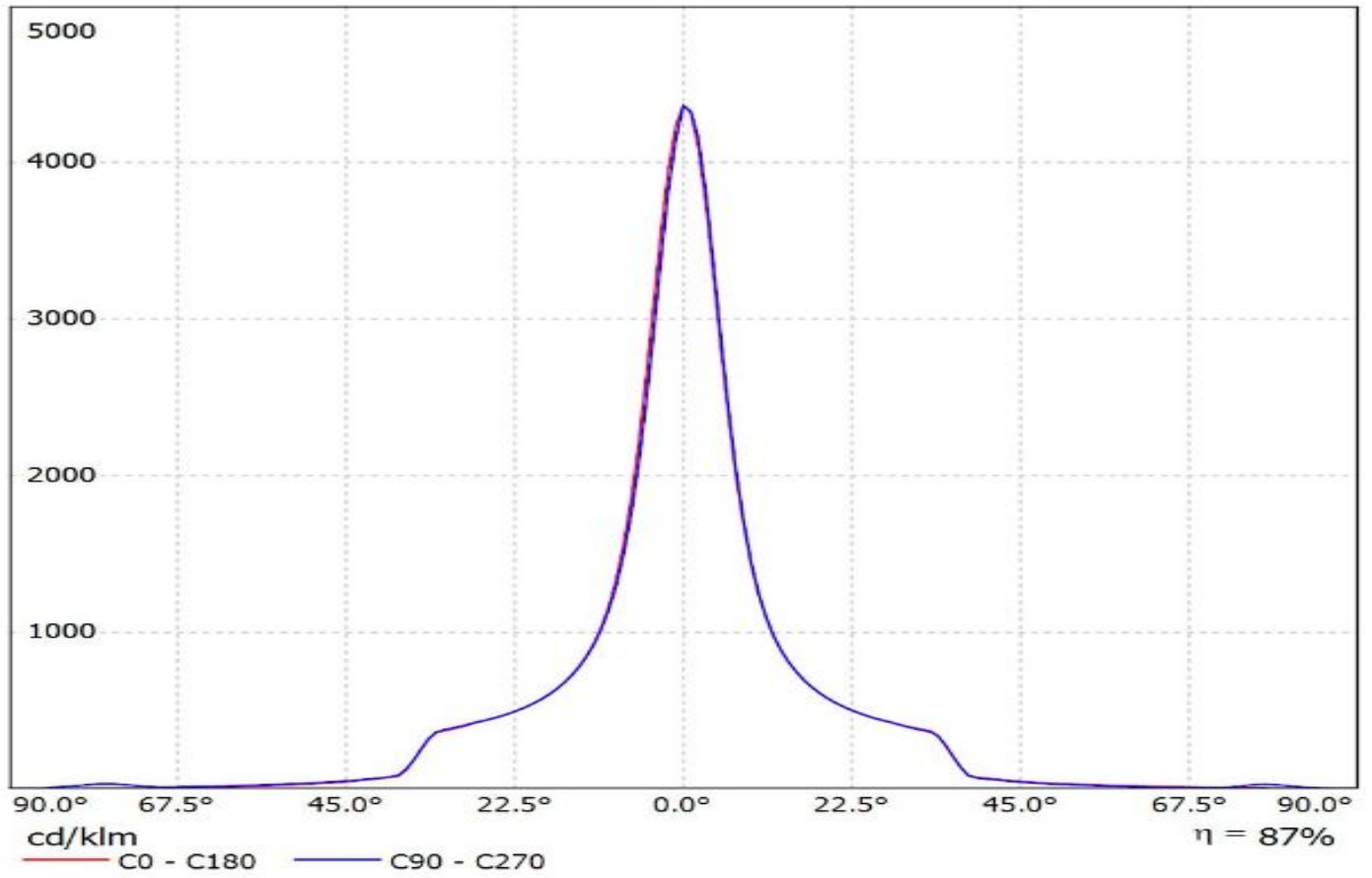


Luminaire: LEDiL Oy F13380_ANGELA-M_(CLL030)

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

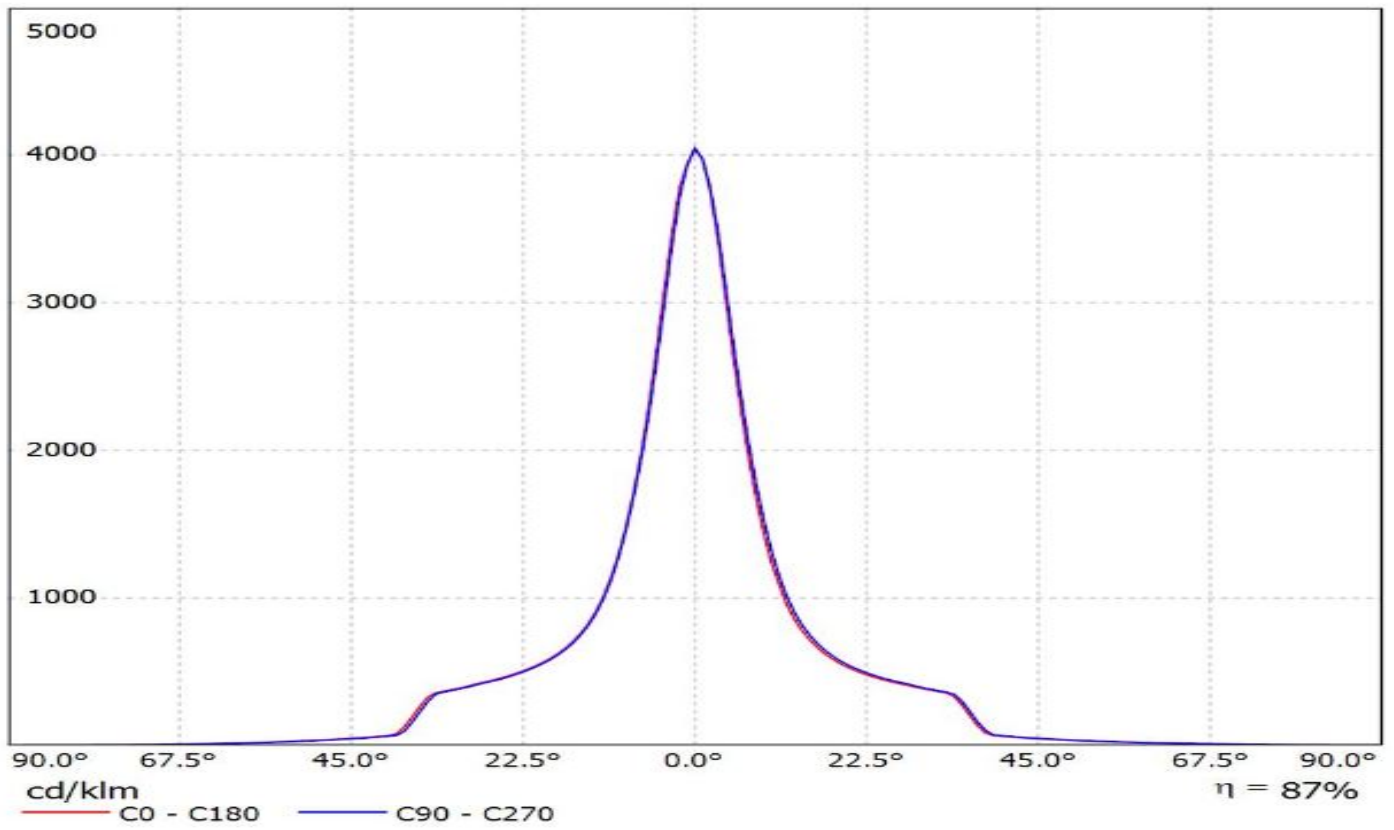


Luminaire: Ledil FF13380_ANGELA-M_(CLU720)
Lamps: 1 x CITIZEN_CLU720_(CLU720-1206B8-273M2)
_1337.27lm@250mA_CCT=2700K_P=8.35W_I=0.25A



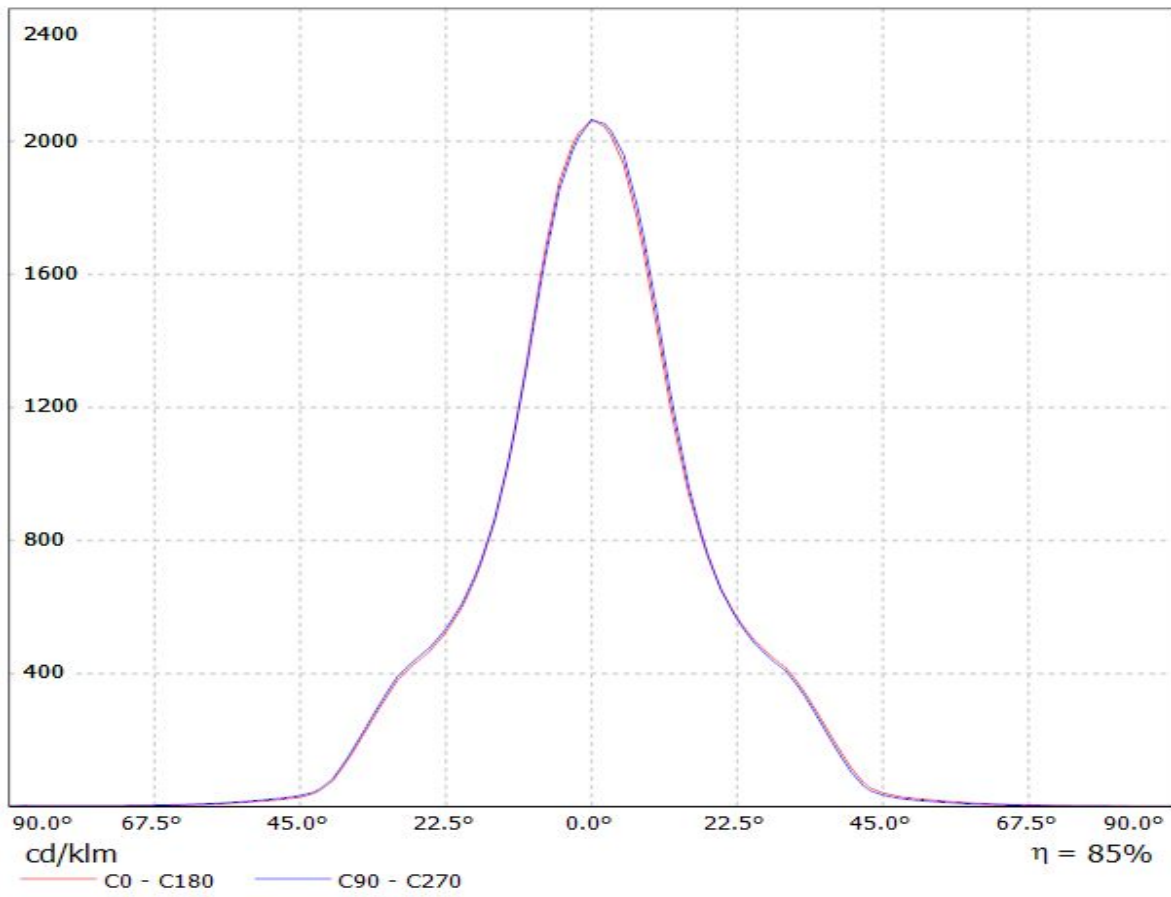
Ledil F13380_ANGELA-M_(CLU720) / LDC (Linear)

Luminaire: Ledil F13380_ANGELA-M_(CLU720)
Lamps: 1 x CITIZEN_CLU720_(CLU720-1206B8-273M2)
_1344.79lm@250mA_CCT=2700K_P=8.35W_I=0.25A

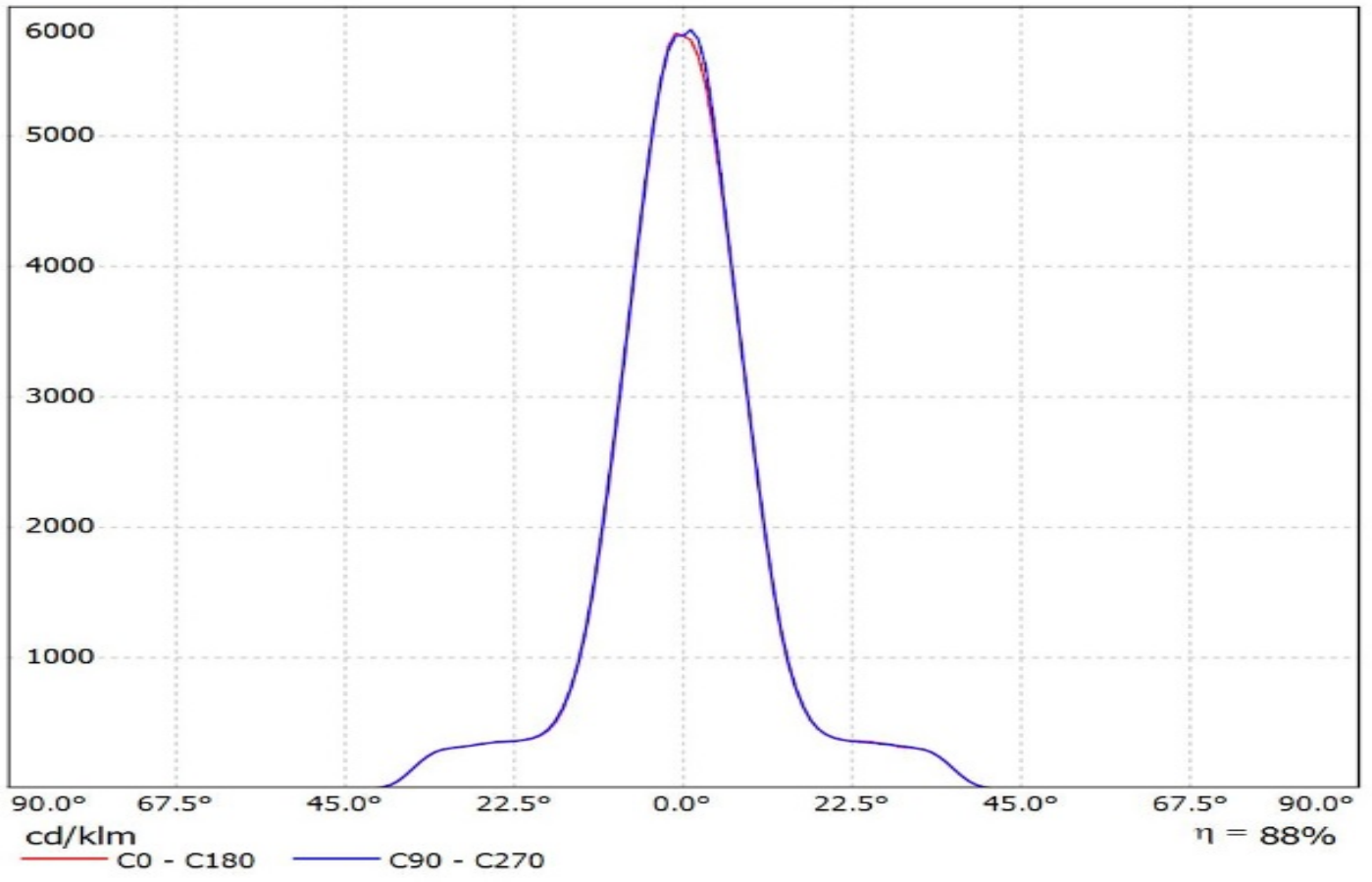


Luminaire: LEDiL Oy F13380_ANGELA-M_(CXA3590)

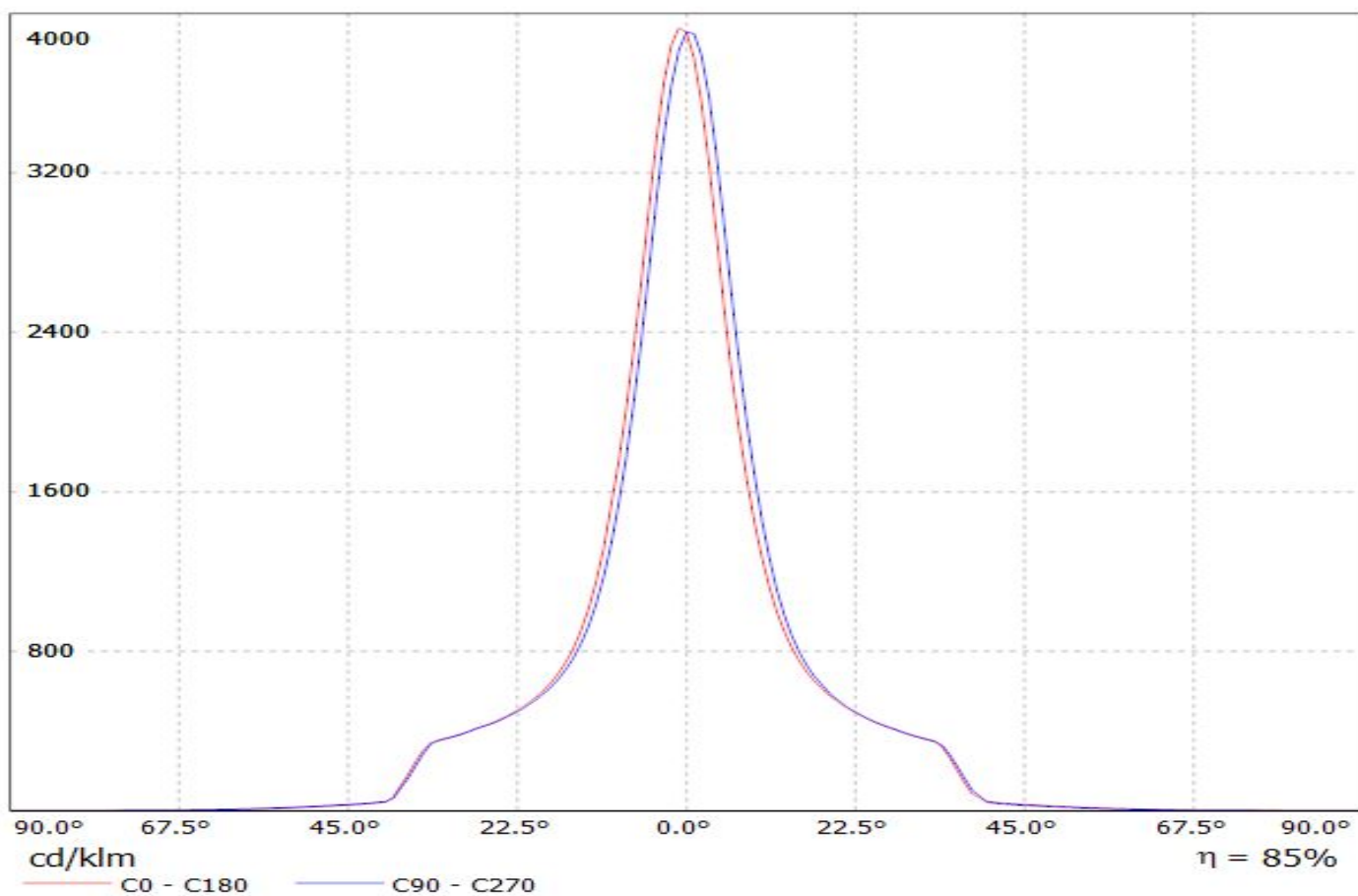
Lamps: 1 x CREE_CXA3590_(CXA3590-30F-BD-R0H-0002)_2640.14lm@250mA_CCT=3000K_P=16.3941W_I=249.8mA



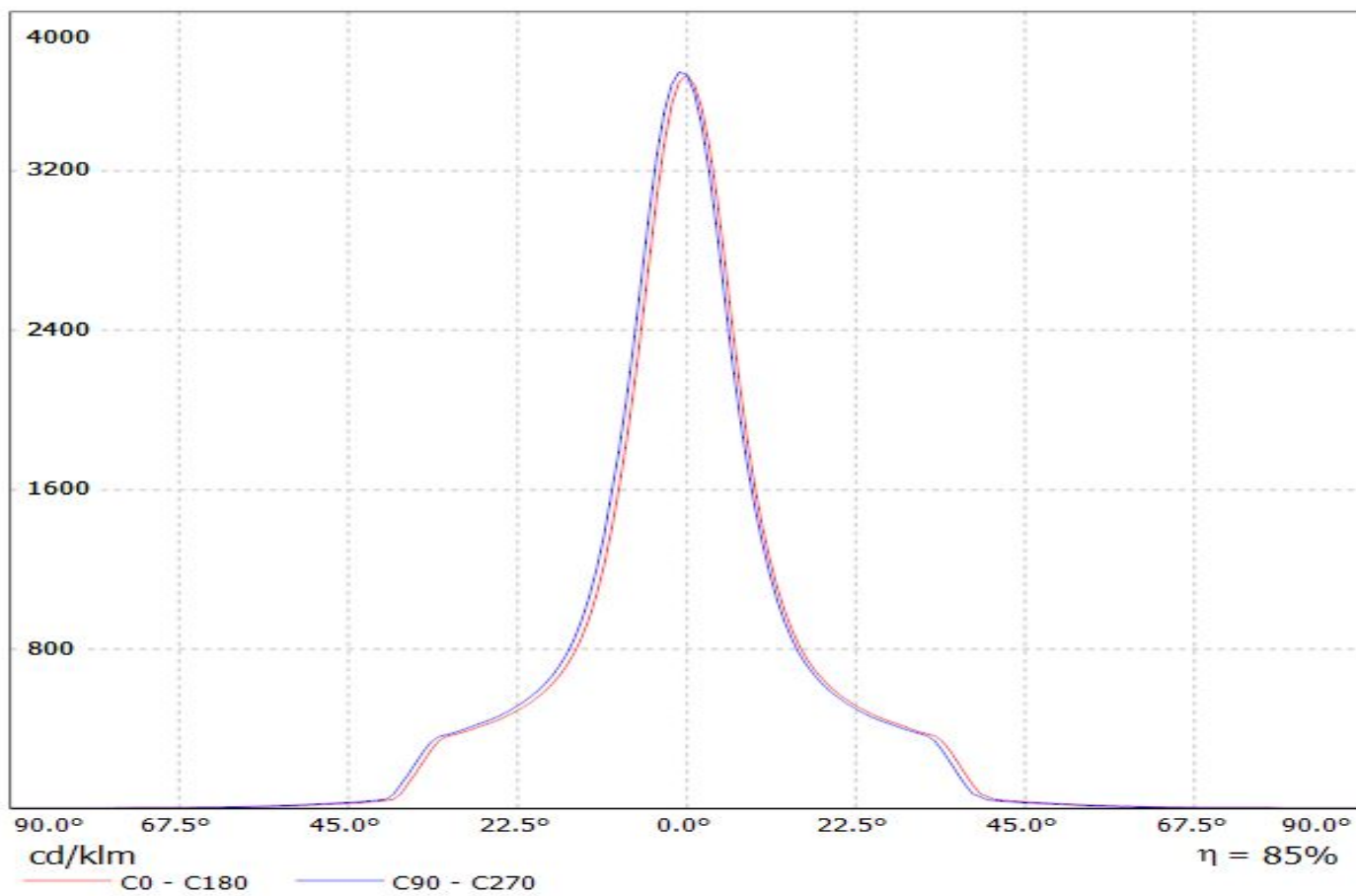
Luminaire: Ledil Oy F13380_ANGELA-M_(CXB1830)_ (Lumawise_Z50_STD_Profile_1818_2213401-2+Optic_Clip_2213194-1) SIMULATED
Lamps: 1 x Cree CXB1830 + Tyco Electronics 2213401-2 + TE 2213194-1



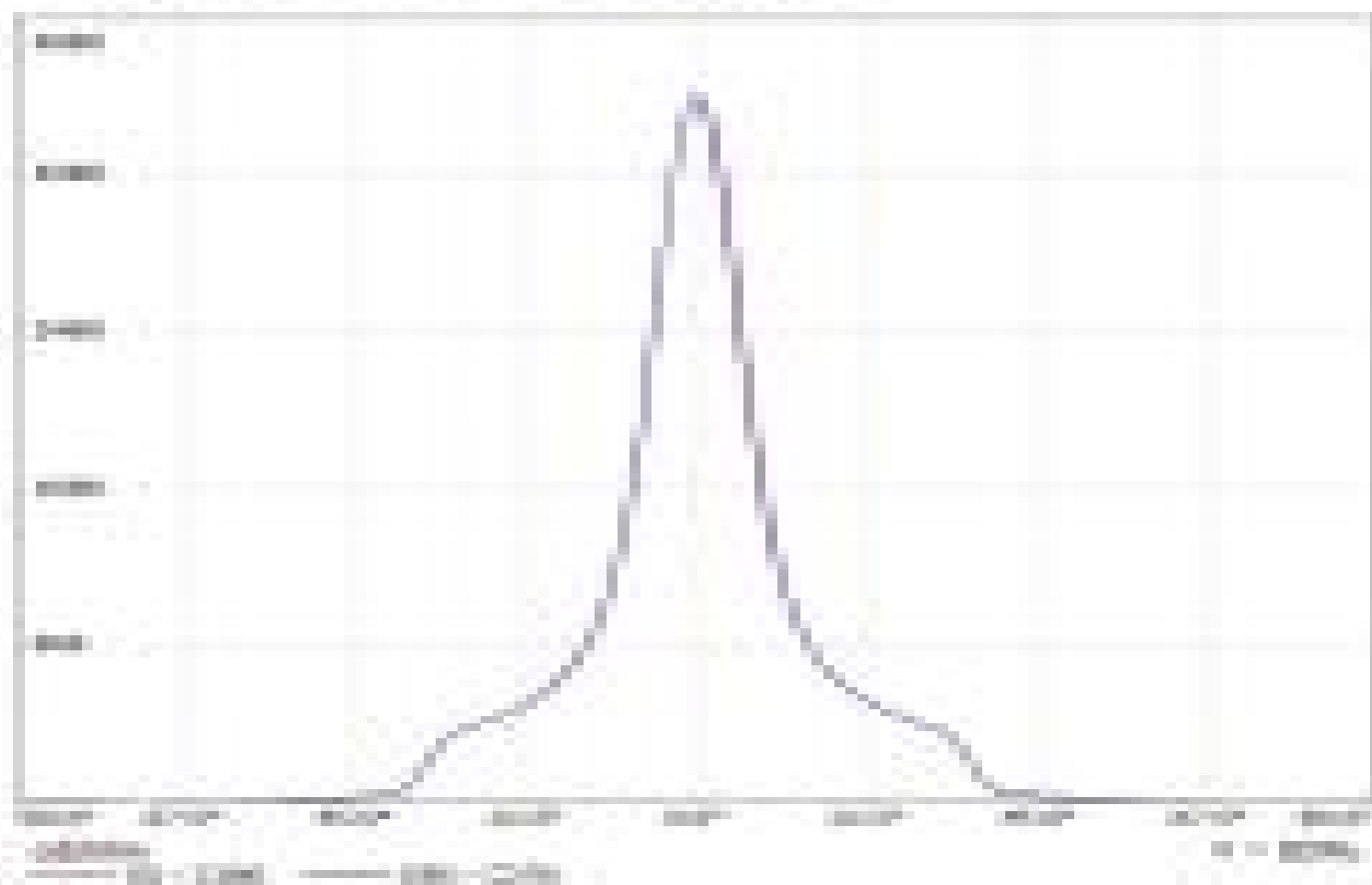
Luminaire: LEDiL Oy F13380_ANGELA-M_(COB_1205) Eff.85.3%
Lamps: 1 x Luxeon_COB_1205_1092.75lm@250mA_P=8.33092W_I=249.9mA



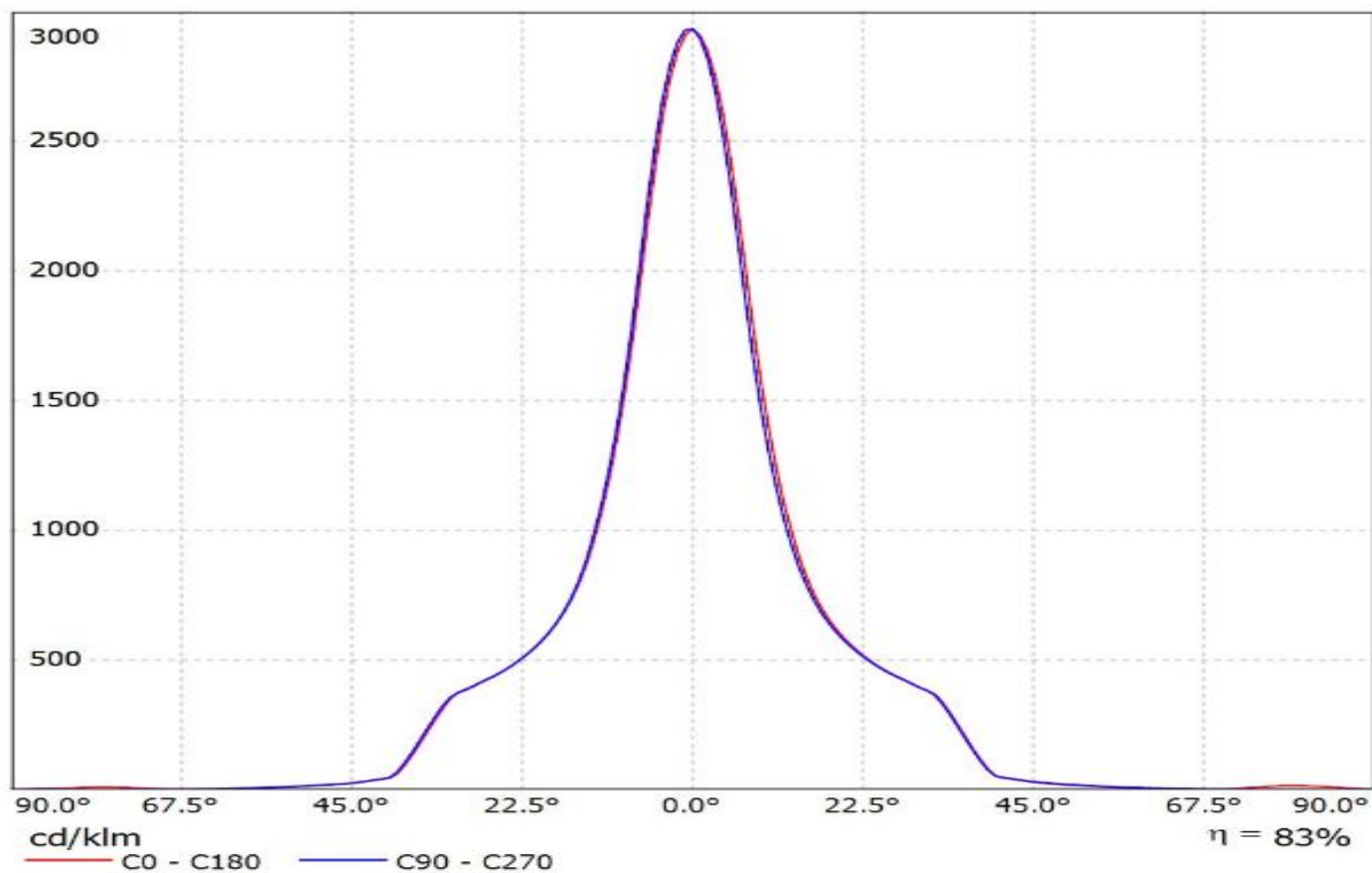
Luminaire: LEDiL Oy F13380_ANGELA-M_(COB_1208) Eff.85.4%
Lamps: 1 x Luxeon_COB_1208_1039.97lm@250mA_P=8.28793W_I=249.9mA



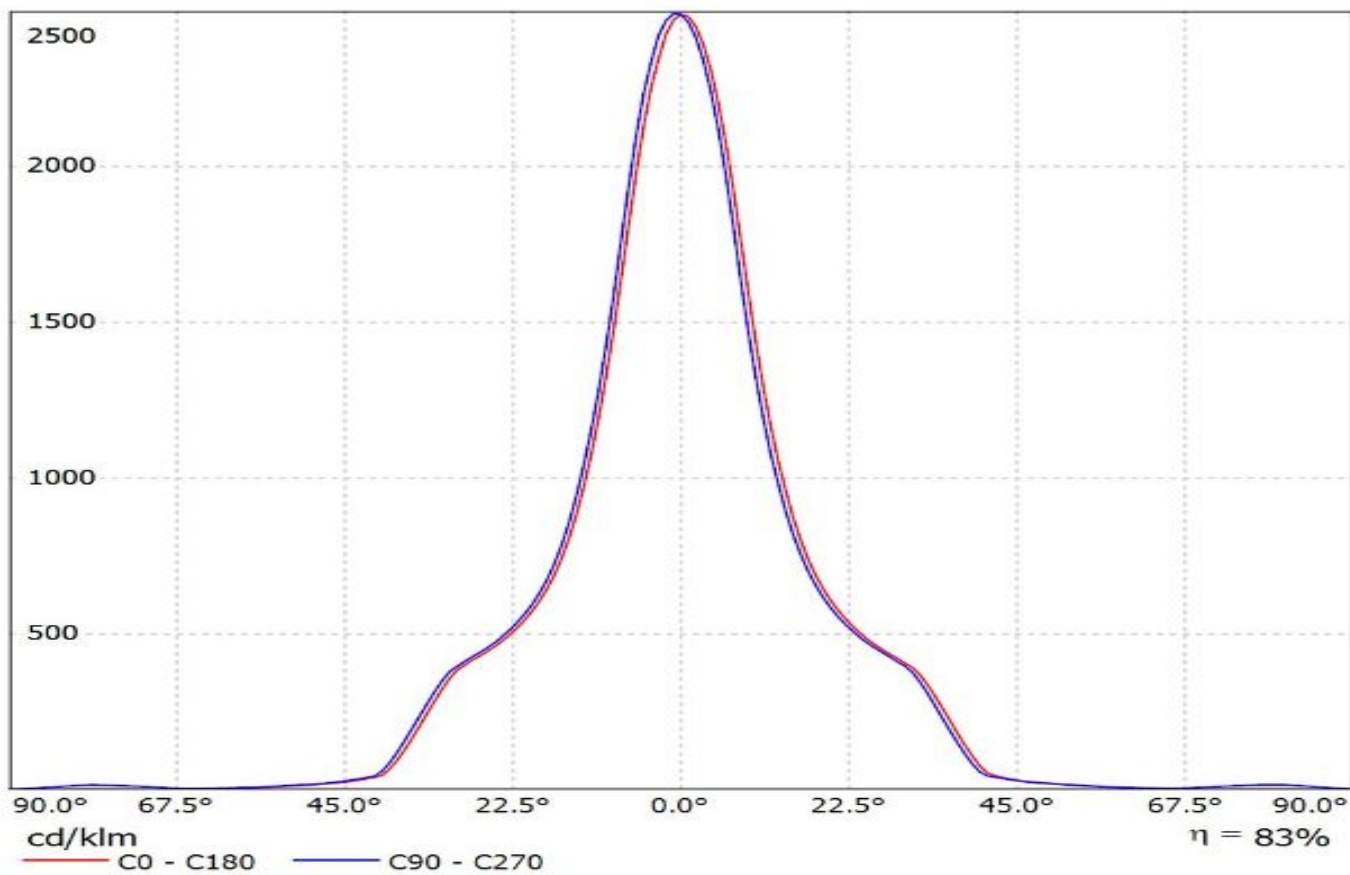
QUESTION: A sample of 1000 observations is drawn from a normal distribution with a mean of 50 and a standard deviation of 10. The sample mean is 52.5. What is the probability that the sample mean is greater than 52.5?



Luminaire: Ledil F13380_ANGELA-M_(CoB1211+IDEAL)
Lamps: 1 x Luxeon_CoB1211_(L2C2-4080)_50-2204CT+50-
2100AN_1376.18lm@250mA_P=7.9988W_I=0.25A

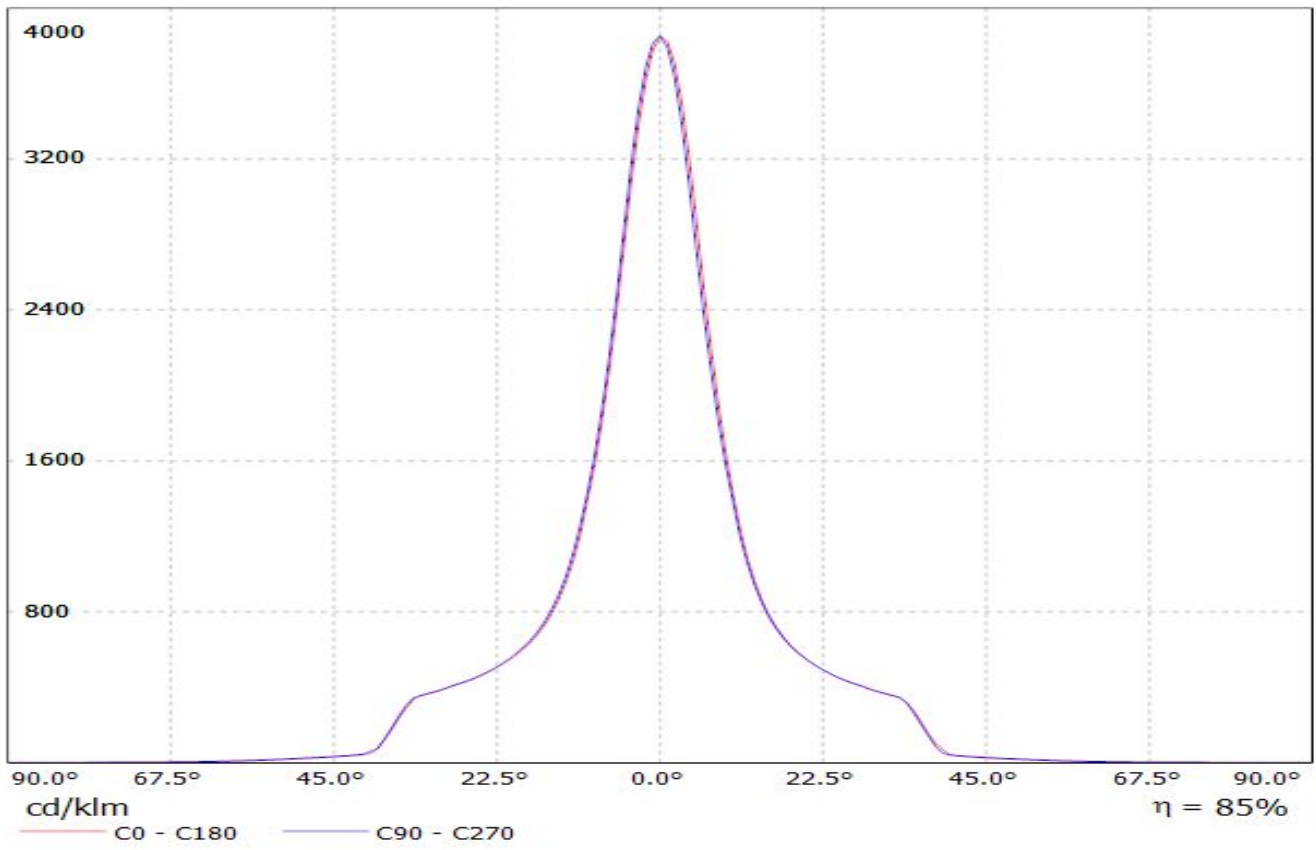


Luminaire: Ledil F13380_ANGELA-M_(CoB1216_IDEAL)
Lamps: 1 x Luxeon_CoB1216_(L2C2-40801216E2300)_+50-2204C_+_50-
2100AN_1447.57lm@250mA_CCT=4000K_P=8.0135W_I=0.25A

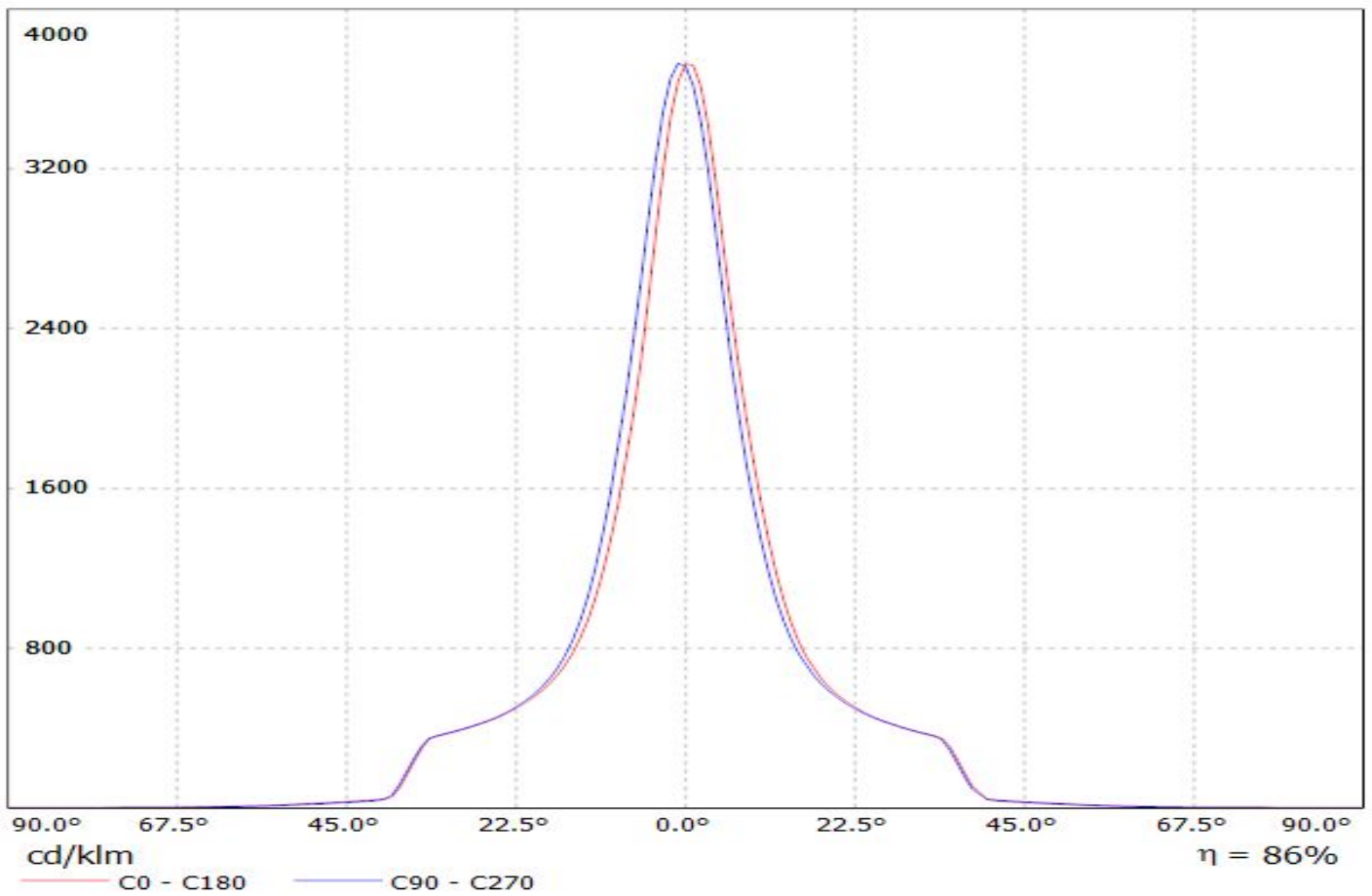


Luminaire: LEDiL Oy F13380_ANGELA-M_(CXM-14)

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

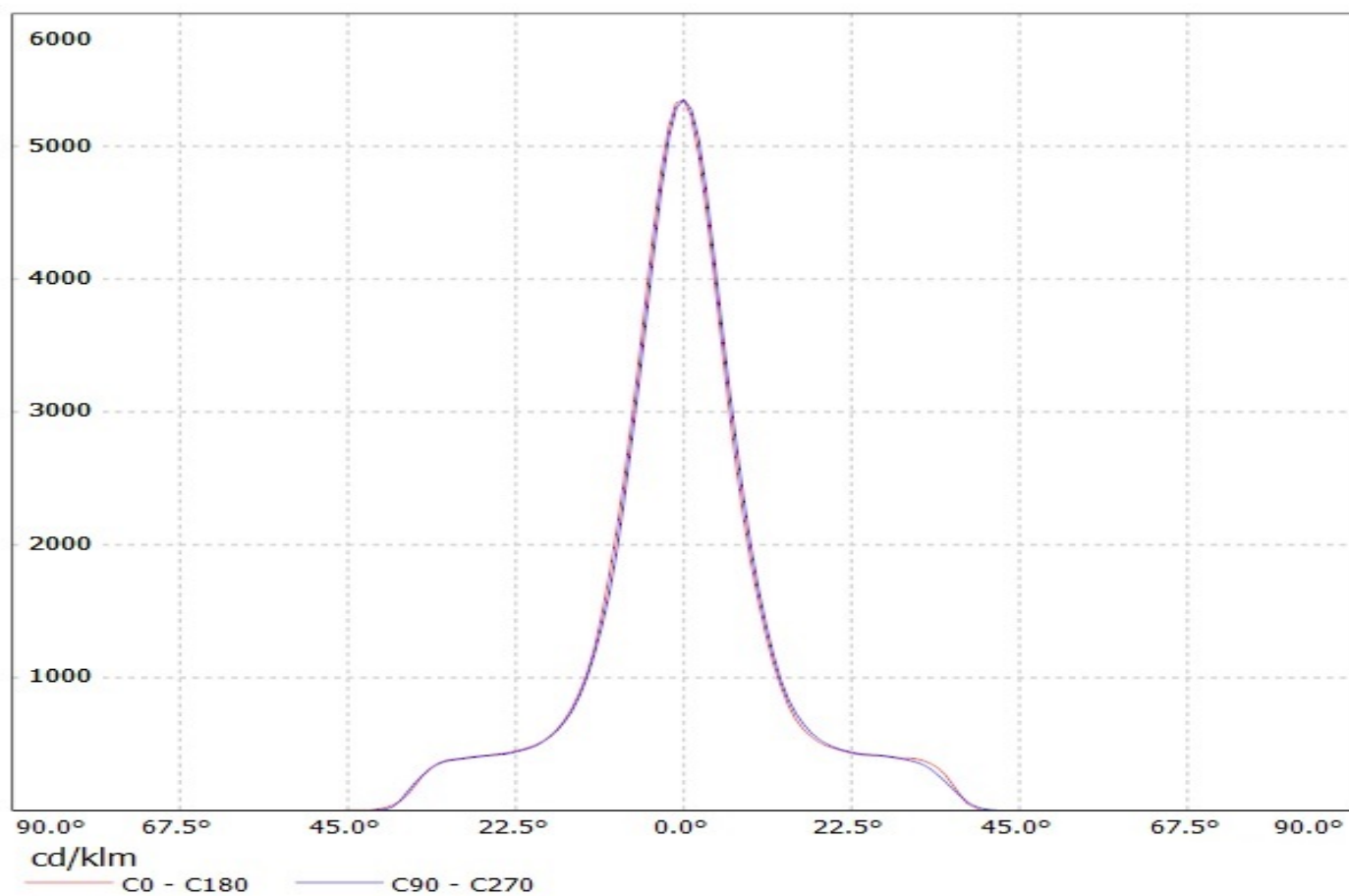


Luminaire: LEDiL Oy F13380_ANGELA-M_(NSBxL121A) Eff.86.4%
Lamps: 1 x Nichia_NSBxL121A_920.44lm@250mA_P=7.57797W_I=249.9mA



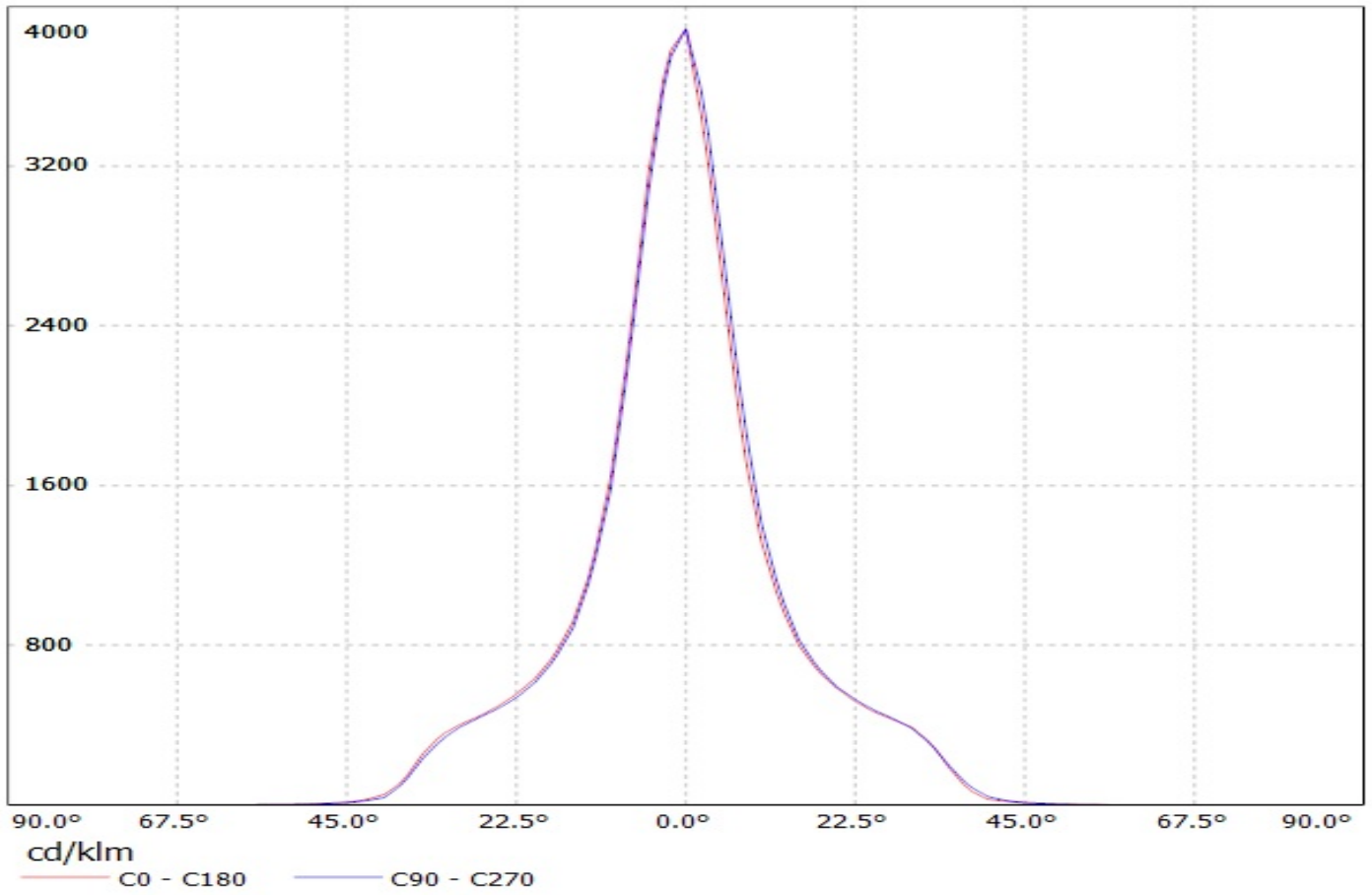
Luminaire: LEDil Oy F13380_ANGELA-M_(NFCxL060B)

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

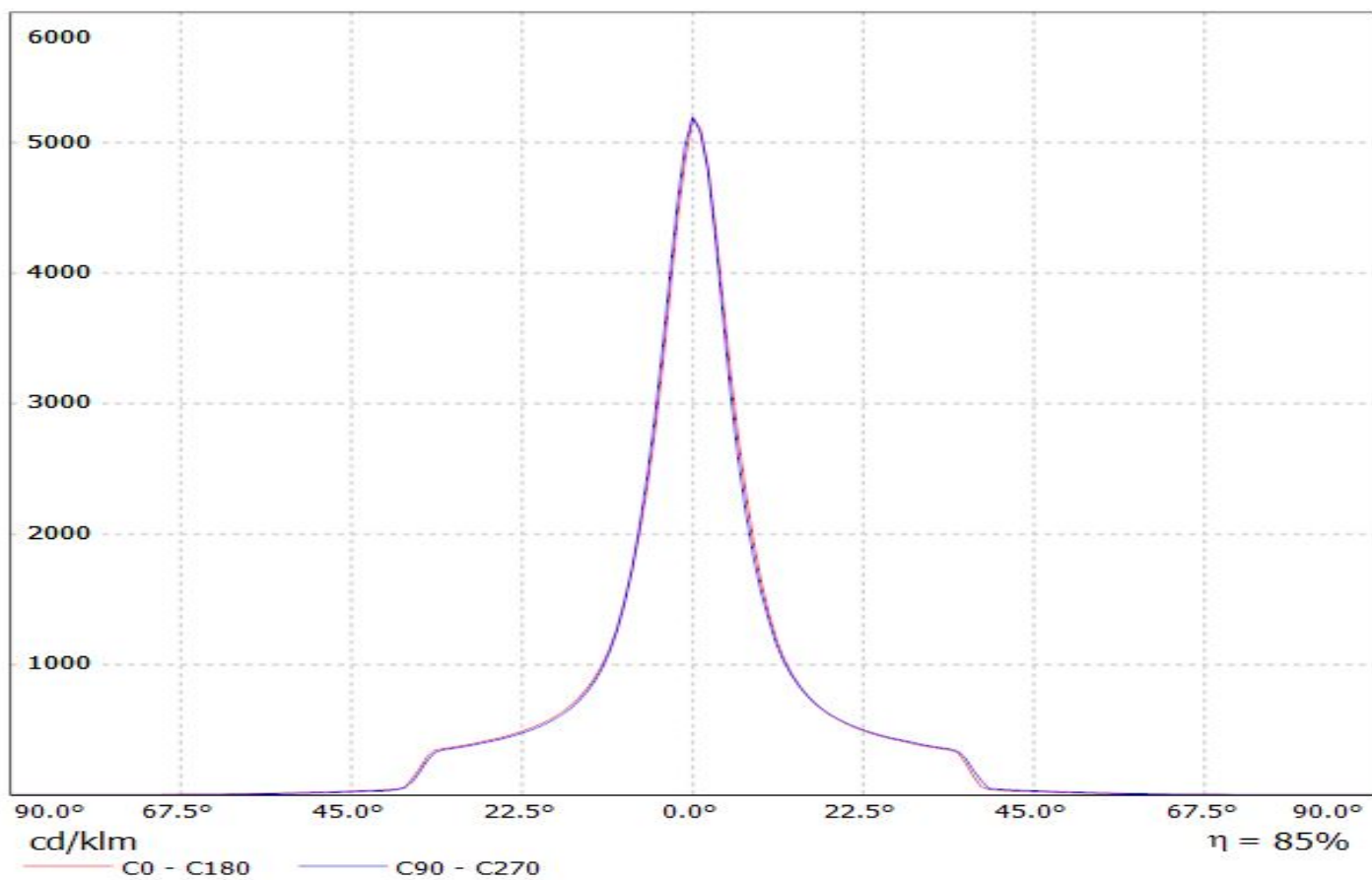


Luminaire: LEDil Oy F13380_ANGELA-M_(NFDxJ130B)

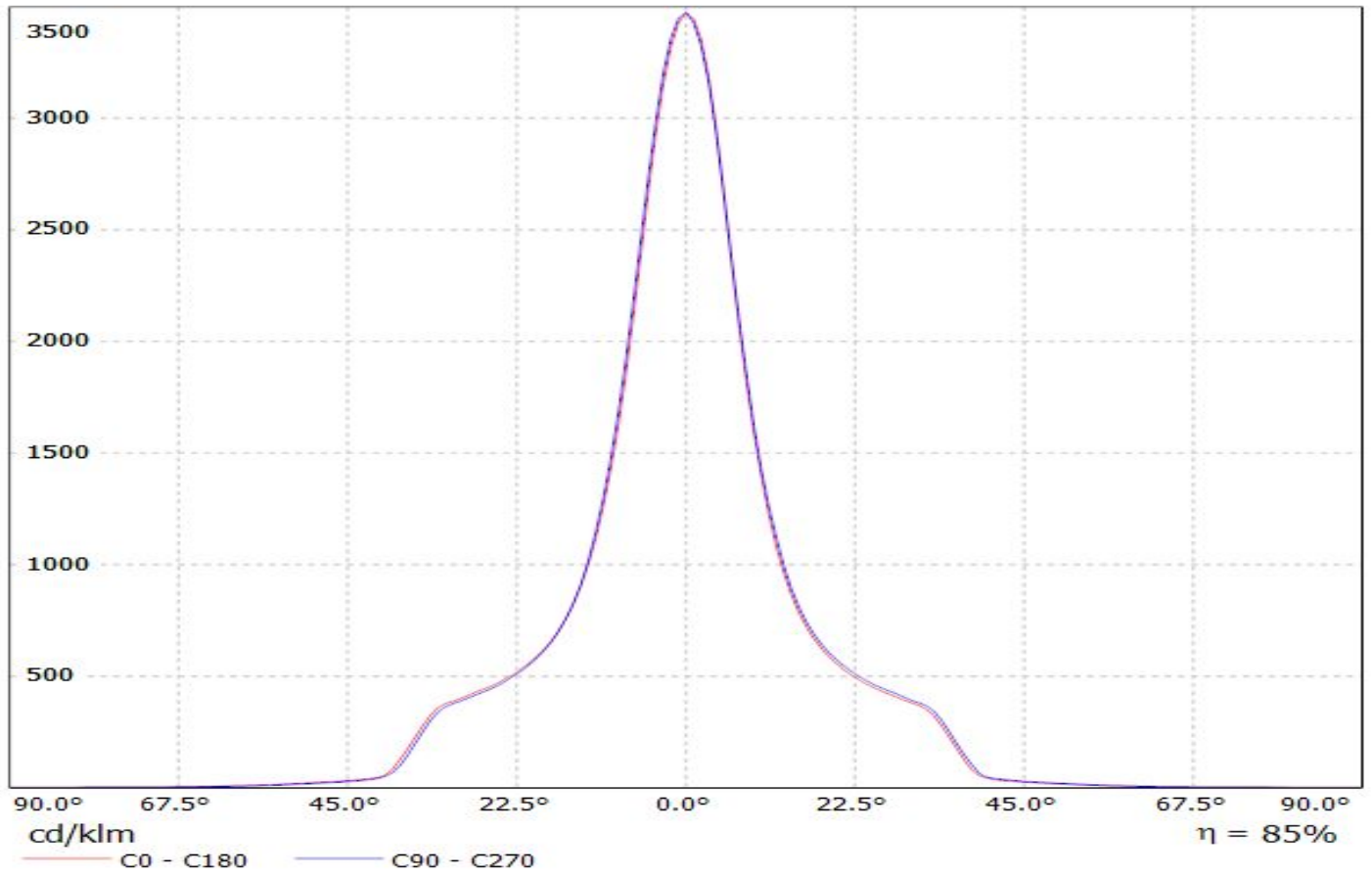
Lamps: 1 x Nichia NFDxJ130B (SM403G6450R8000) 1410.46lm @ 250mA P=8.9W I=250mA



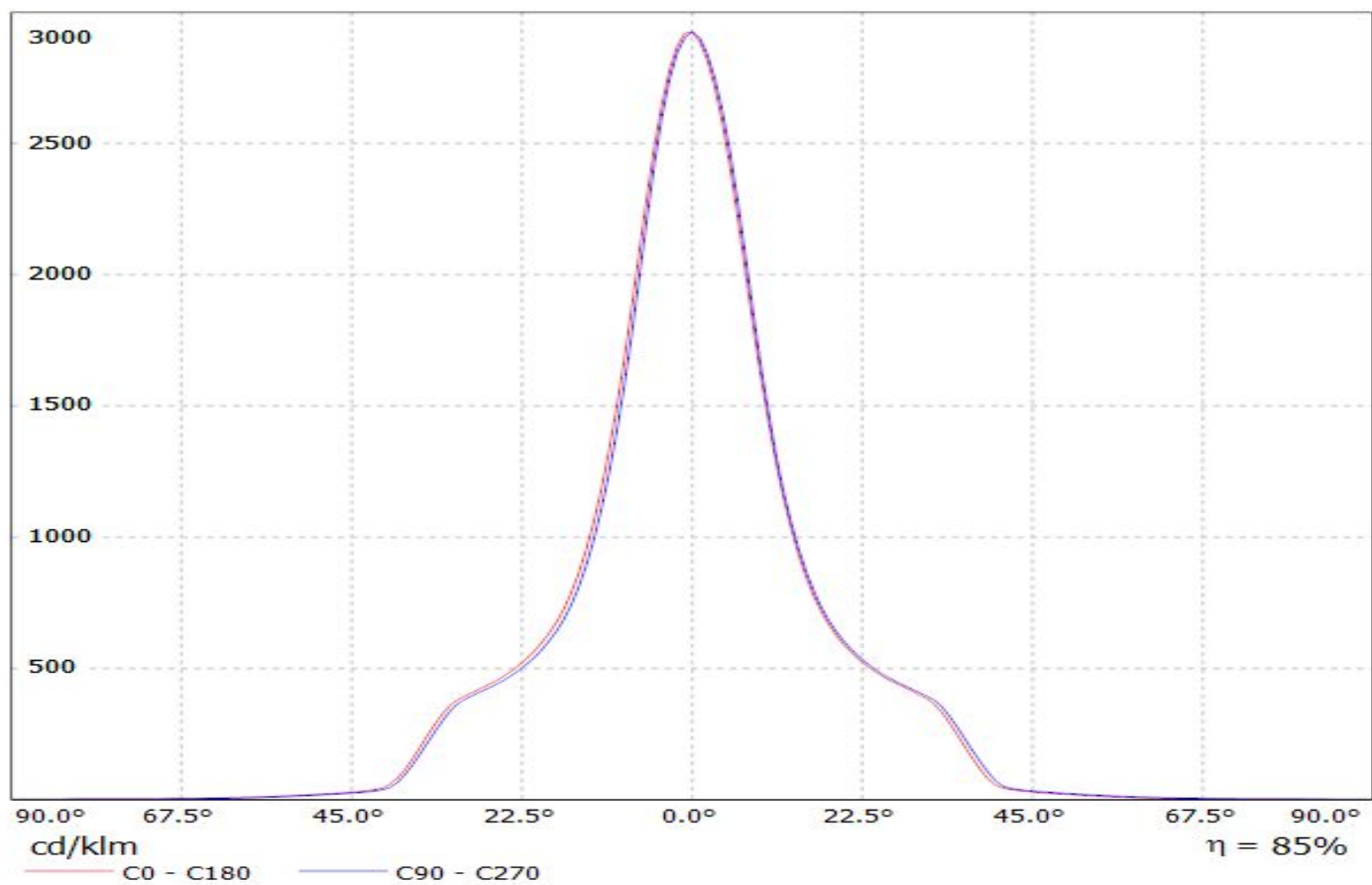
Luminaire: LEDiL Oy F13380_ANGELA-M (PrevaLED_LES9)
Lamps: 1 x Osram_PrevaLED_Core_Z3_LES9 (PL-CORE-1100-830-Z3)
_1132.95lm@250mA_P=12.1952W_I=249.8mA



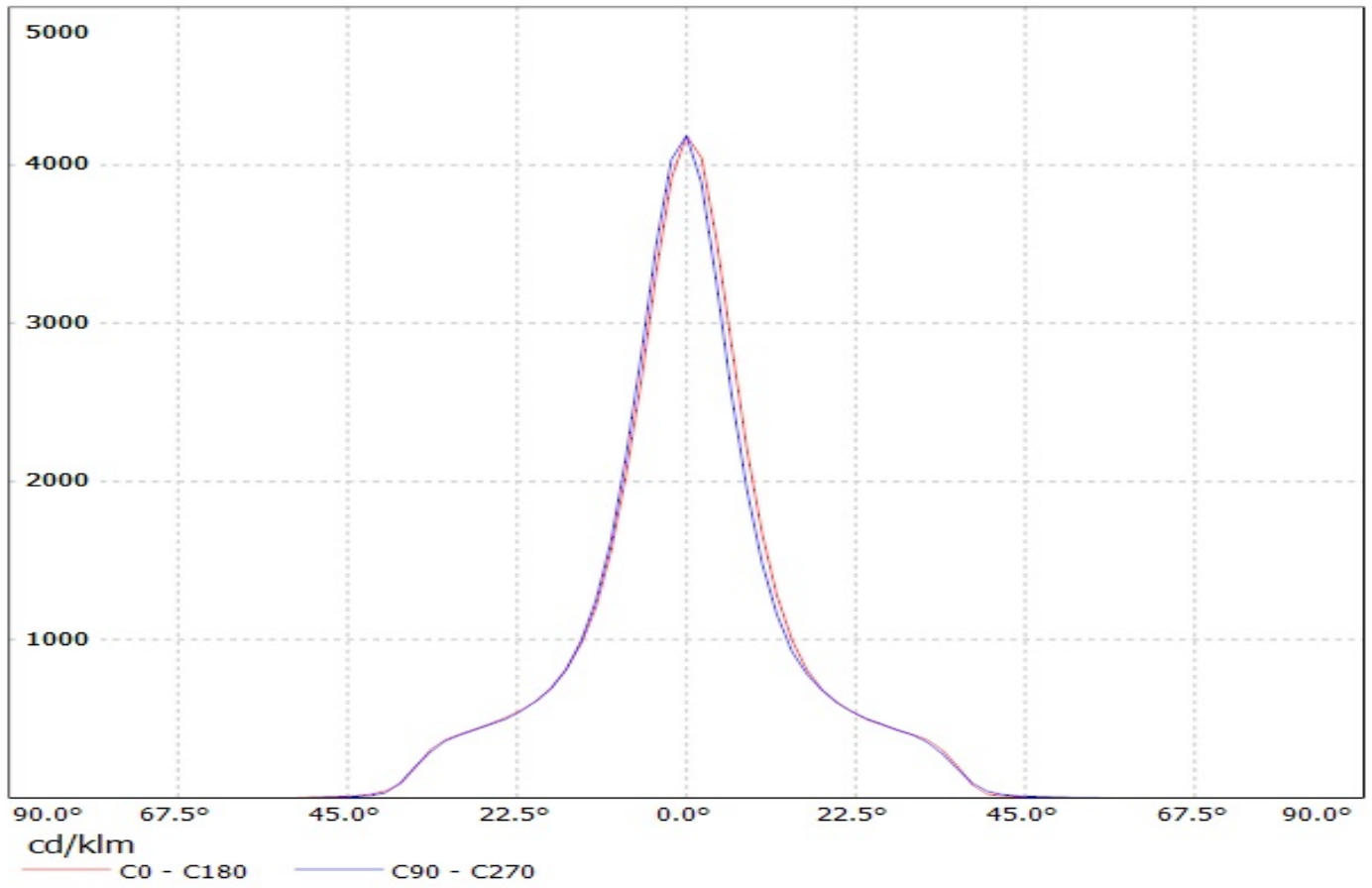
Luminaire: LEDiL Oy F13380_ANGELA-M_(PrevaLED_LES19)
Lamps: 1 x Osram_PrevaLED_CORE_Z3_LES19_(PL-CORE-2000-830-Z3)
_1356.73lm@250mA_P=10.5228W_I=249.9mA



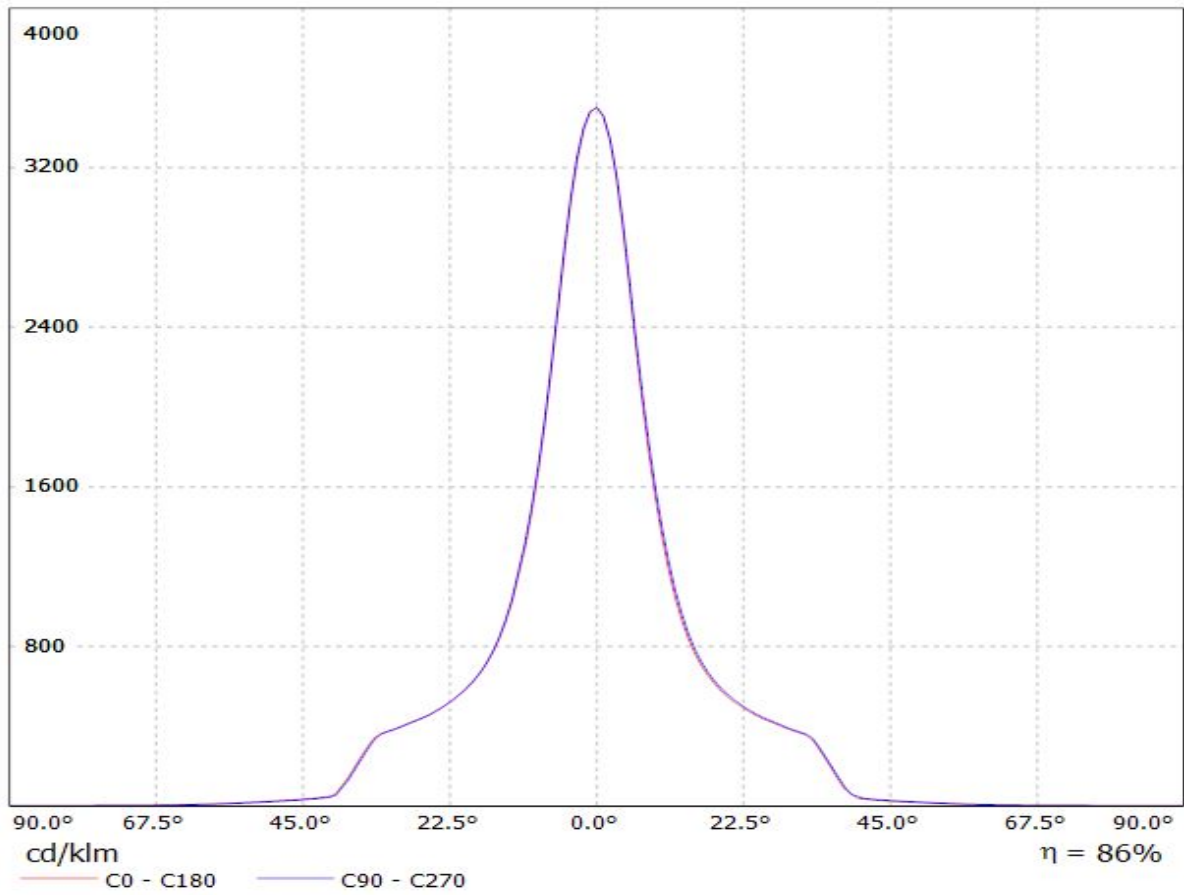
Luminaire: LEDiL Oy F13380_ANGELA-M_(PrevaLED_LES23)
Lamps: 1 x Osram_PrevaLED_Core_Z3_LES23_(PL-CORE-5000-930-Z3)
_1130.05lm@250mA_P=10.0097W_I=249.9mA



Luminaire: LEDil Oy F13380_ANGELA-M_(Soleriq_S13) Efficiency=86%
Lamps: 1 x Osram Soleriq S13 (GW KAGHB1.EM) 855lm @ 250mA CCT=3100K P=7.4W I=250mA

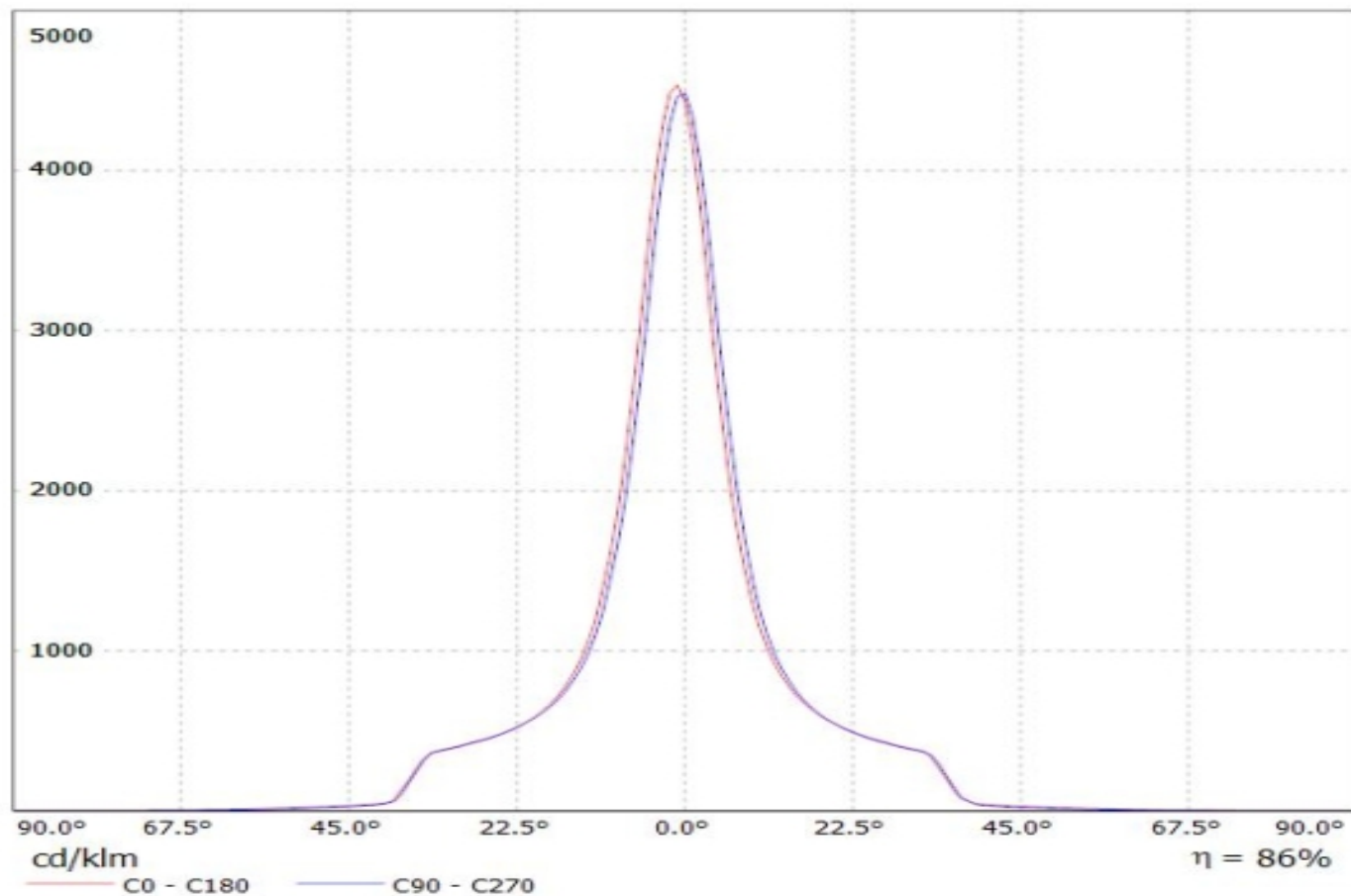


Luminaire: LEDiL Oy F13380_ANGELA-M_(SOLERIQ_S19_ & TE_2213407-2)
Lamps: 1 x OSRAM_SOLERIQ_S19_(GW_KAHJB1.EM)_1385.15lm@250mA_CCT=3000K_P=10.5613W_I=249.8mA

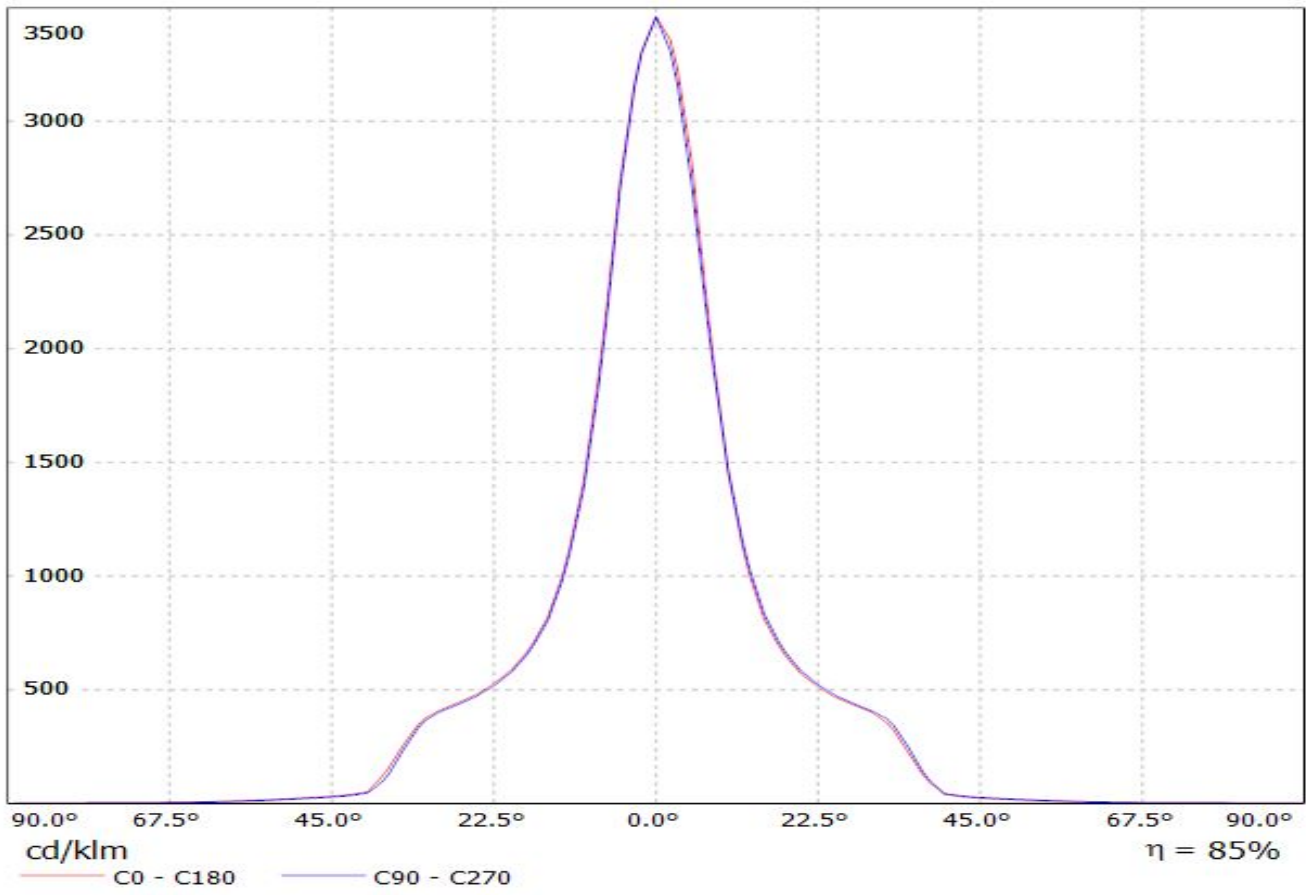


Luminaire: LEDiL Oy F13380_ANGELA-M_(LEP-800-827-C-AC)

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

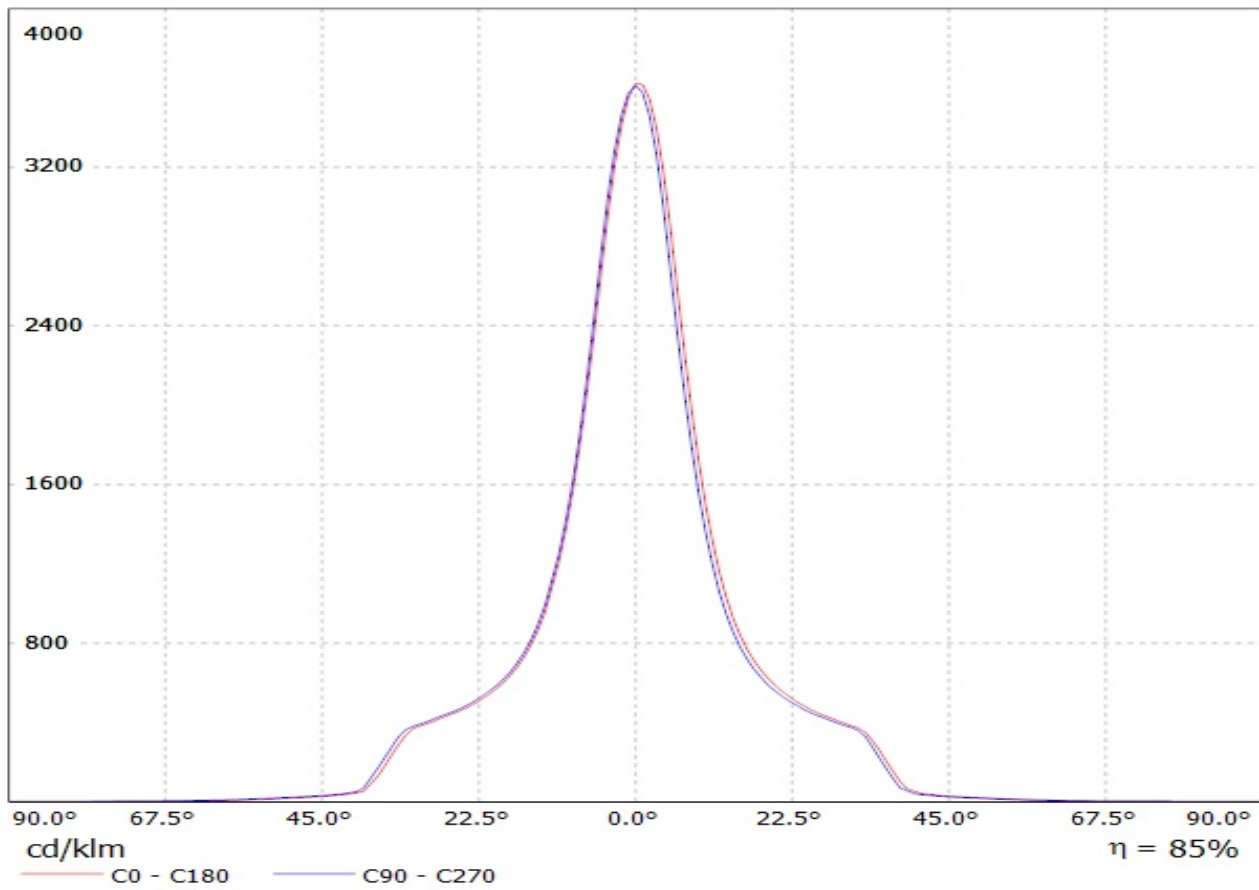


Luminaire: LEDiL Oy F13380_ANGELA-M_(LEP-2000-827-C-AC)
Lamps: 1 x OSRAM PrevaLED Core AC (LEP-2000-827-C-AC)



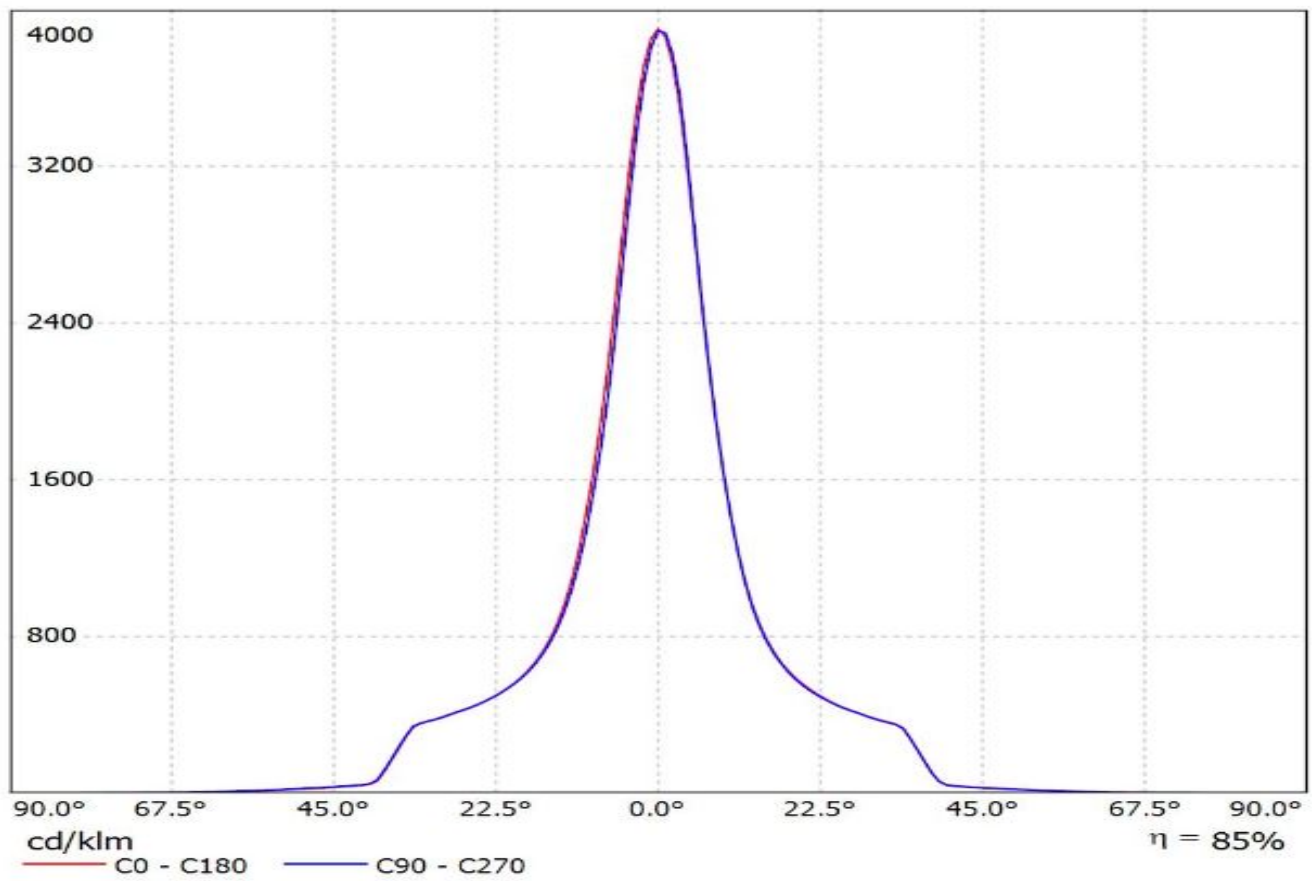
Luminaire: LEDiL Oy F13380_ANGELA-M_(PrevaLED_Z4) Eff:85%

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

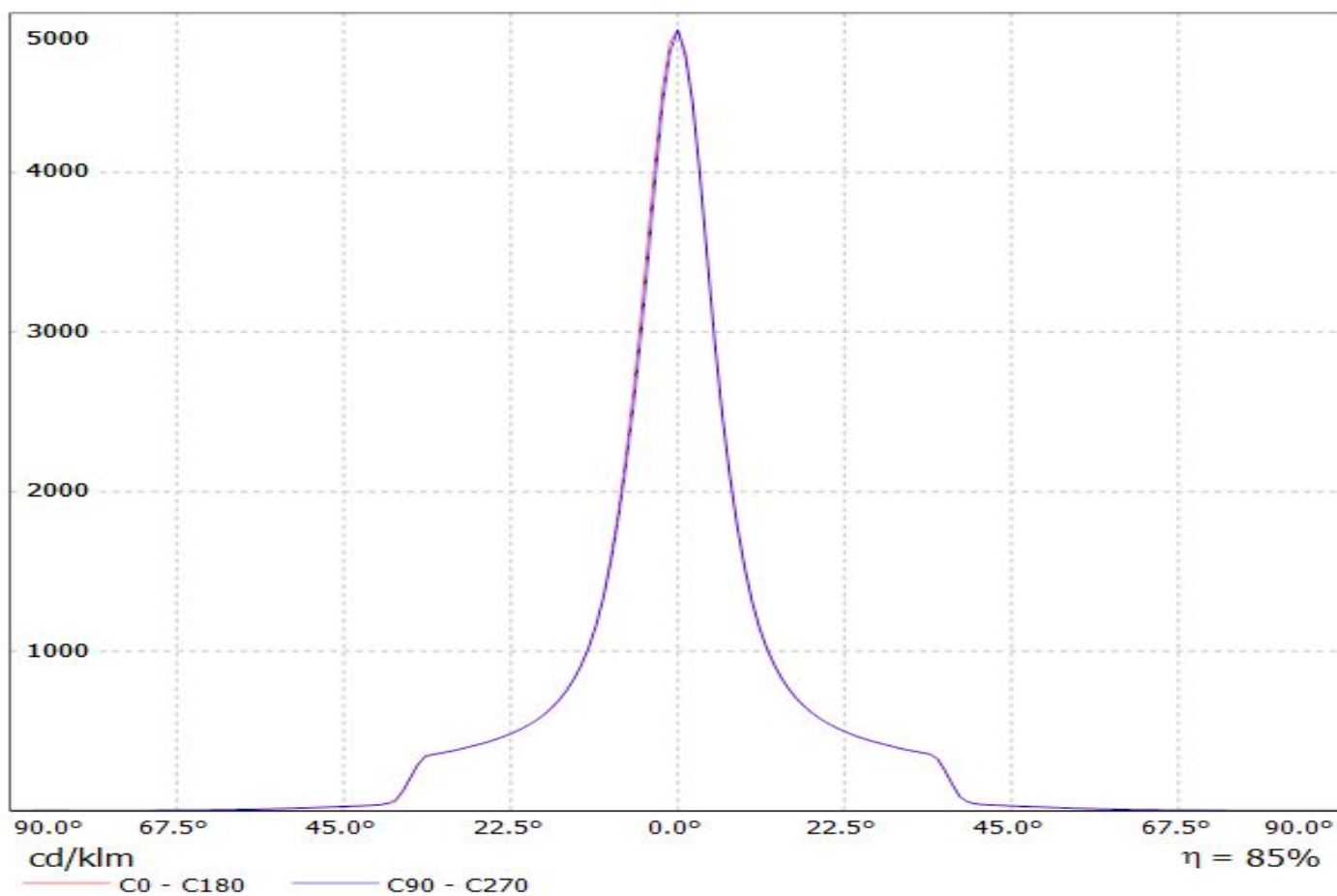


Luminaire: LEDiL Oy F13380_ANGELA-M_(SOLERIQ_P13)

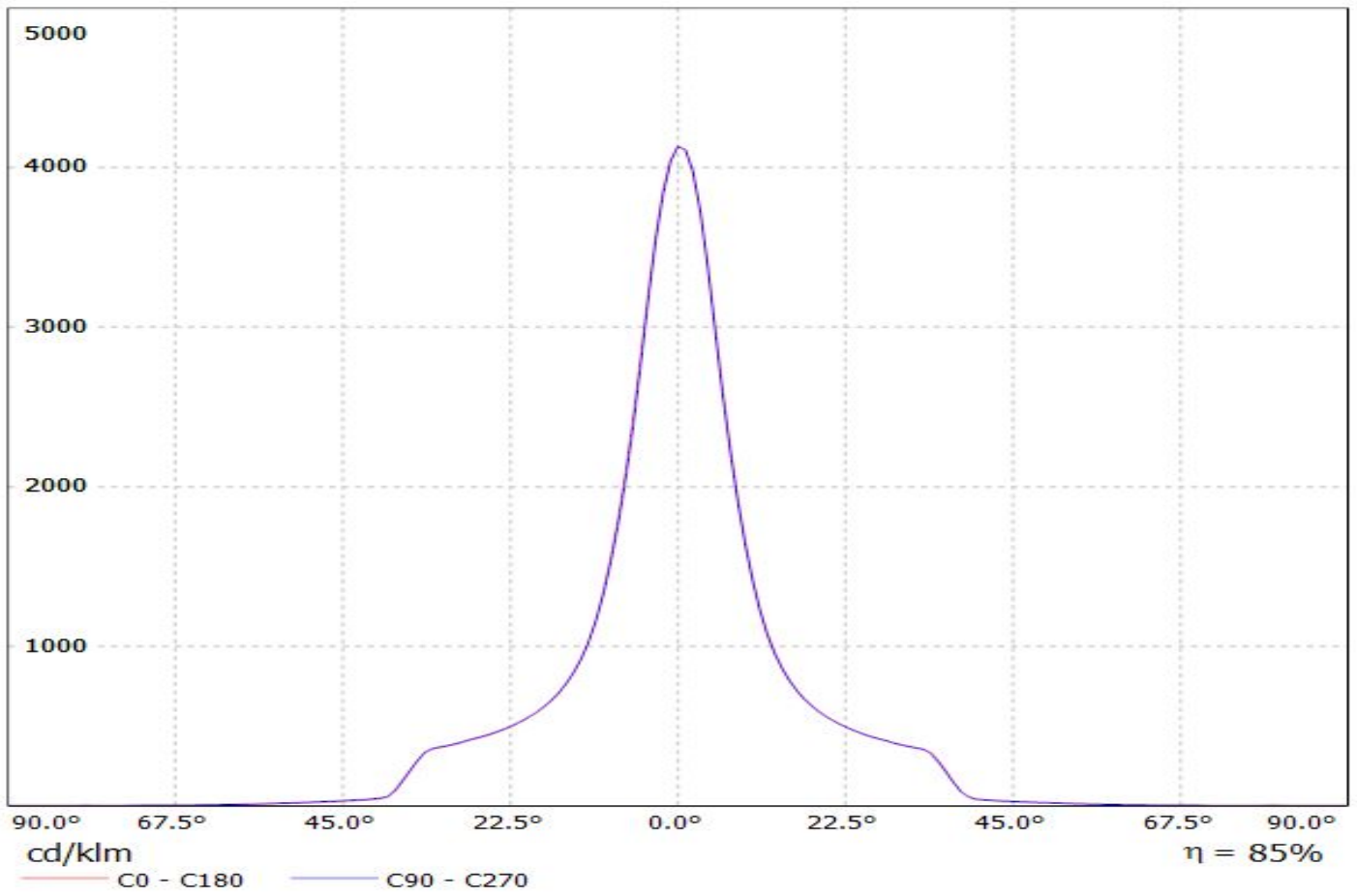
Lamps: 1 x SOLERIQ_P13_(GW_MAGMB1.EM)_1038.25lm@250mA_CCT=3000K_P=8.77223W_I=249.8mA



Luminaire: LEDiL Oy F13380_ANGELA-M_(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

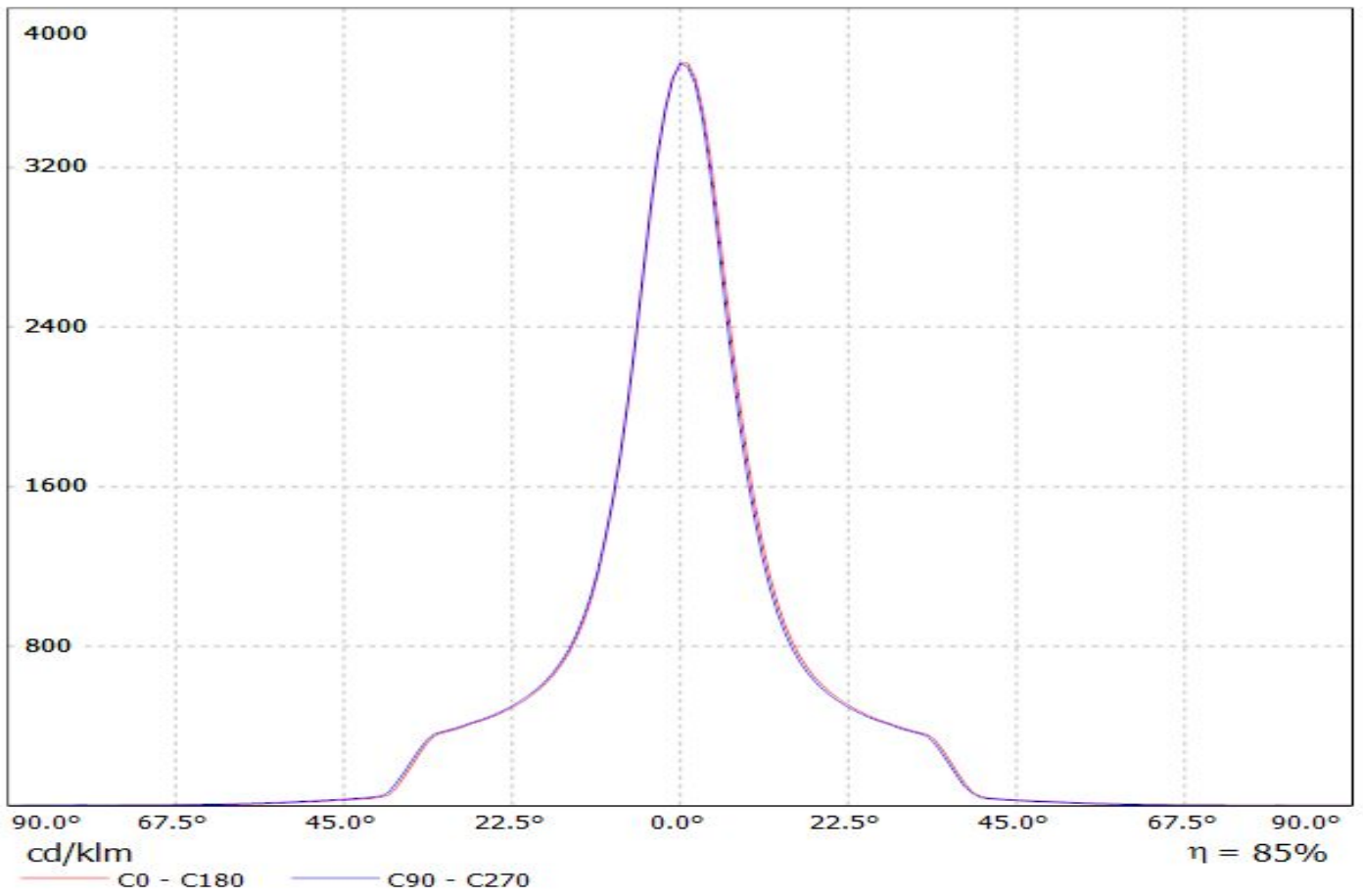


Luminaire: LEDiL Oy F13380_ANGELA-M_(Fortimo LED SLM L13 G4)
Lamps: 1 x Fortimo LED SLM L13 G4_1030.19lm@250mA_P=8.38104W_I=0.2498A



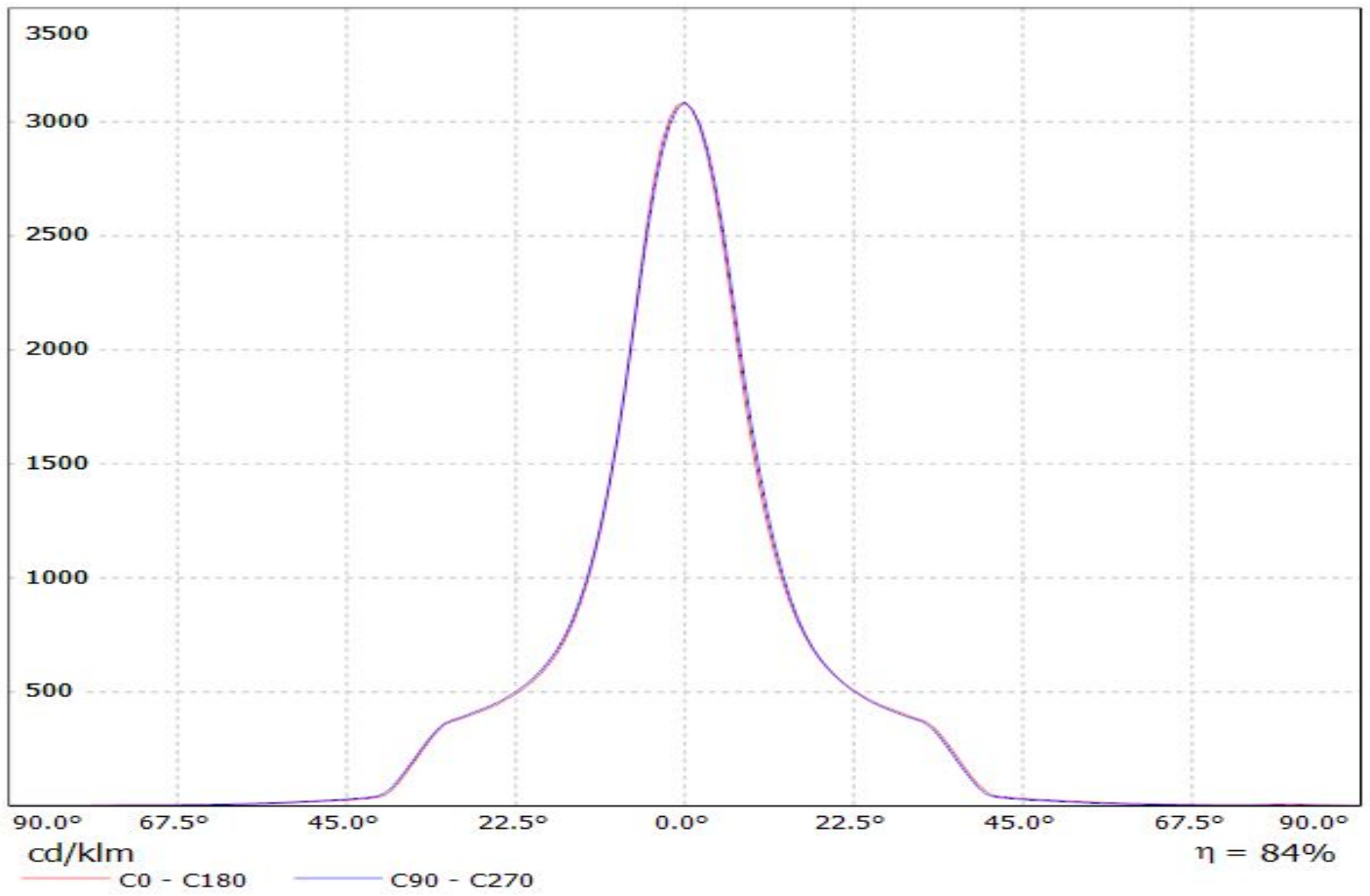
Luminaire: LEDiL Oy F13380_ANGELA-M_(Fortimo LED SLM L15 G4)

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

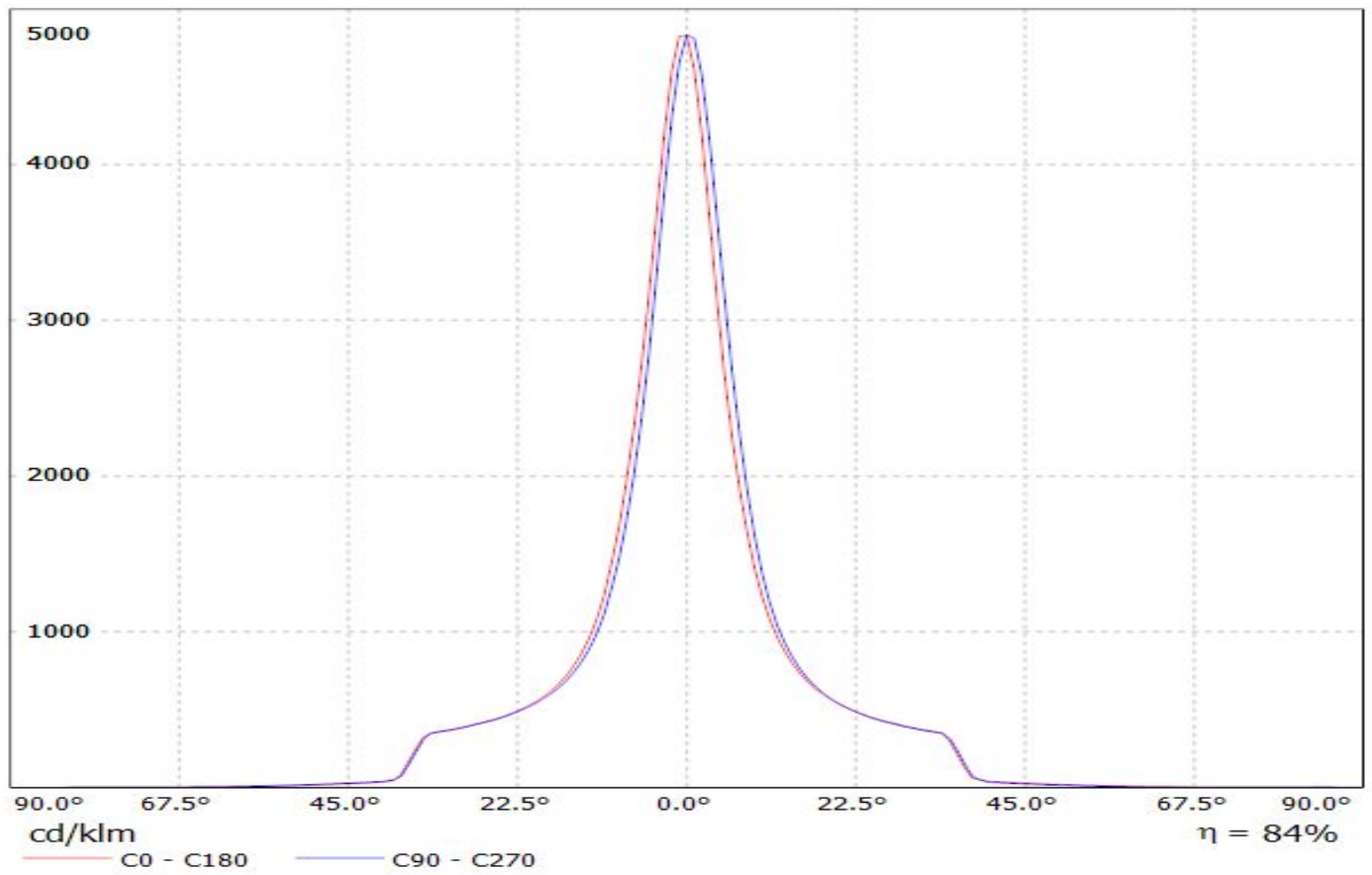


Luminaire: LEDiL Oy F13380_ANGELA-M_(Fortimo LED SLM L19 G4)

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

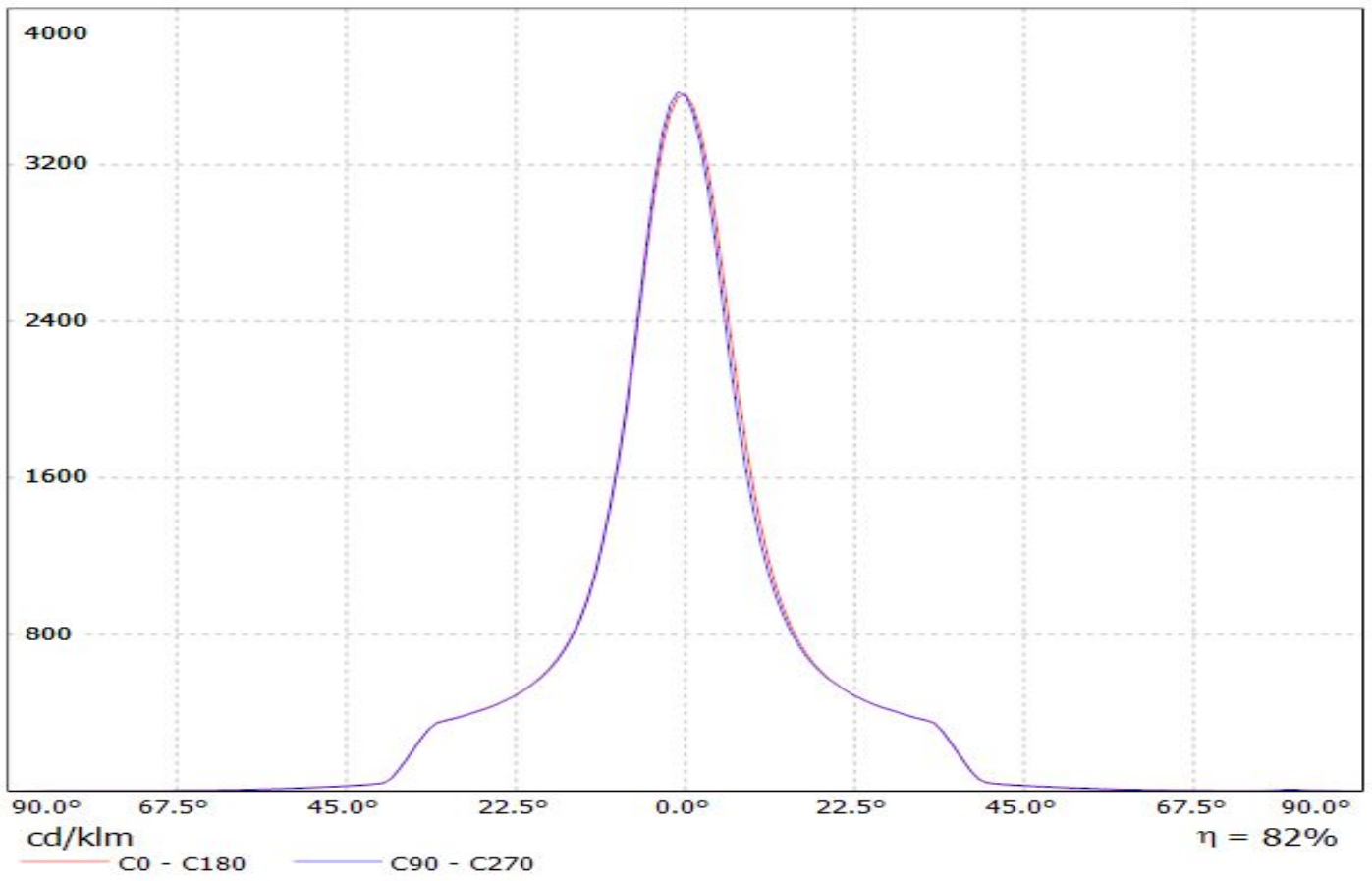


Luminaire: LEDiL Oy F13380_ANGELA-M_(SLM-G5-LES-9)_ (Z50-Optic-Clip)
Lamps: 1 x Fortimo_SLM-G5-LES-9_1182.49lm@250mA_P=8.5848W_I=0.250A

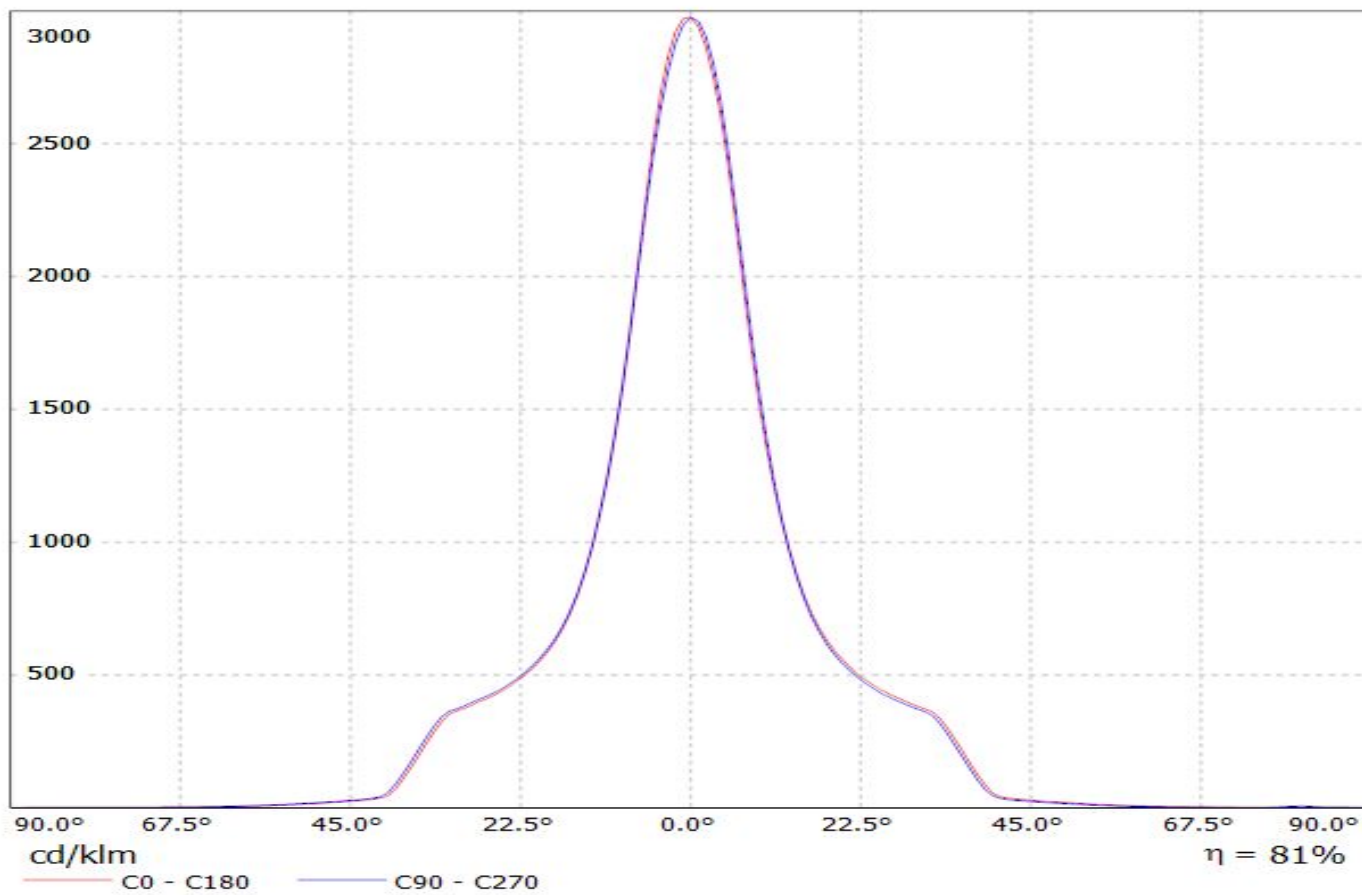


Luminaire: LEDiL Oy F13380_ANGELA-M_(SLM-G5_LES-15)

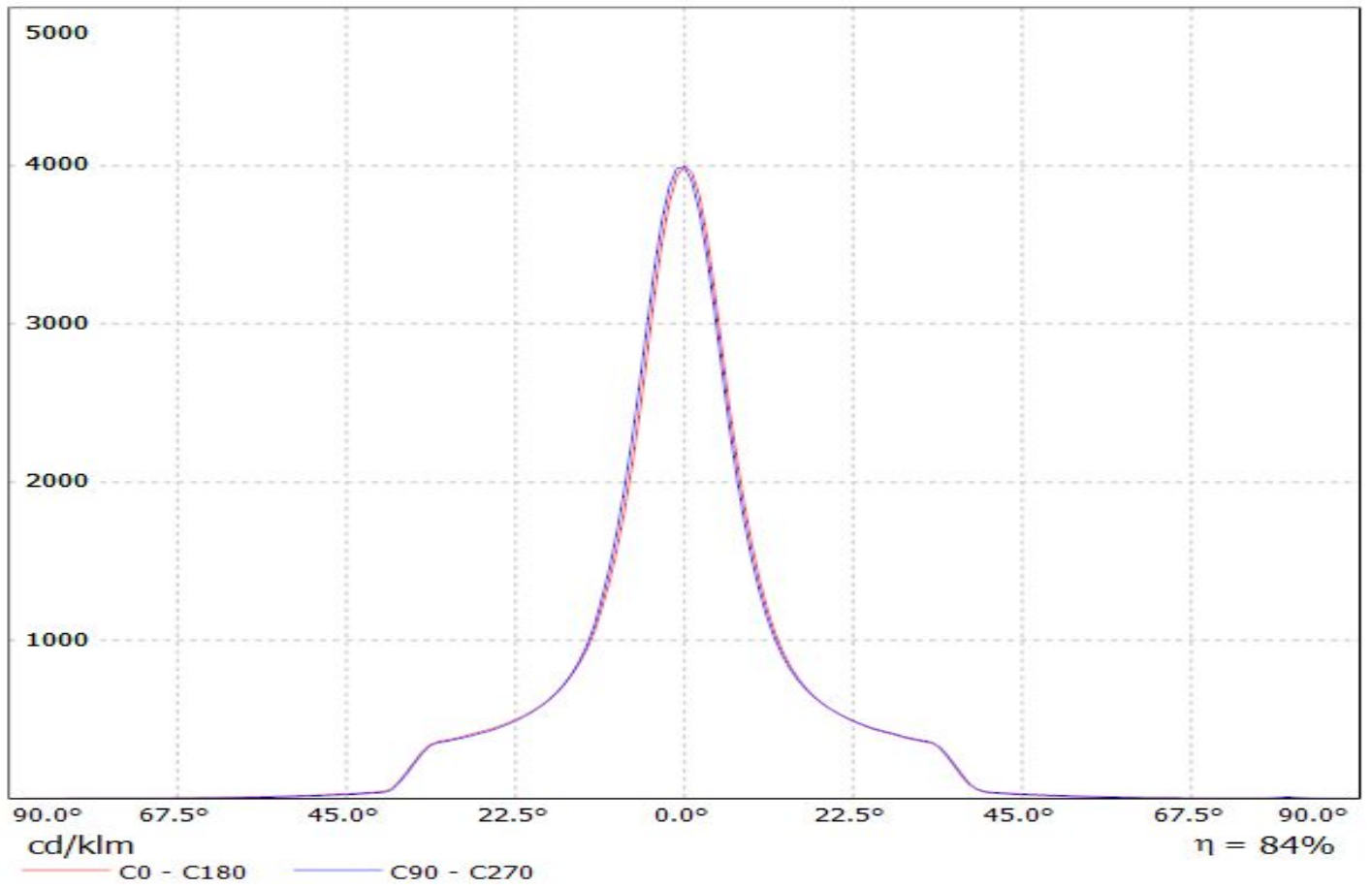
Lamps: 1 x Fortimo_SLM-G5_LES-15_1257.61lm@250mA_P=8.1569W_I=0.250A



Luminaire: LEDiL Oy F13380_ANGELA-M_(SLM-G5_LES-19)_ (Z50_Optic_Clip)
Lamps: 1 x Fortimo_SLM-G5_LES-19_1397.58lm@250mA_P=8.0385W_I=0.250A

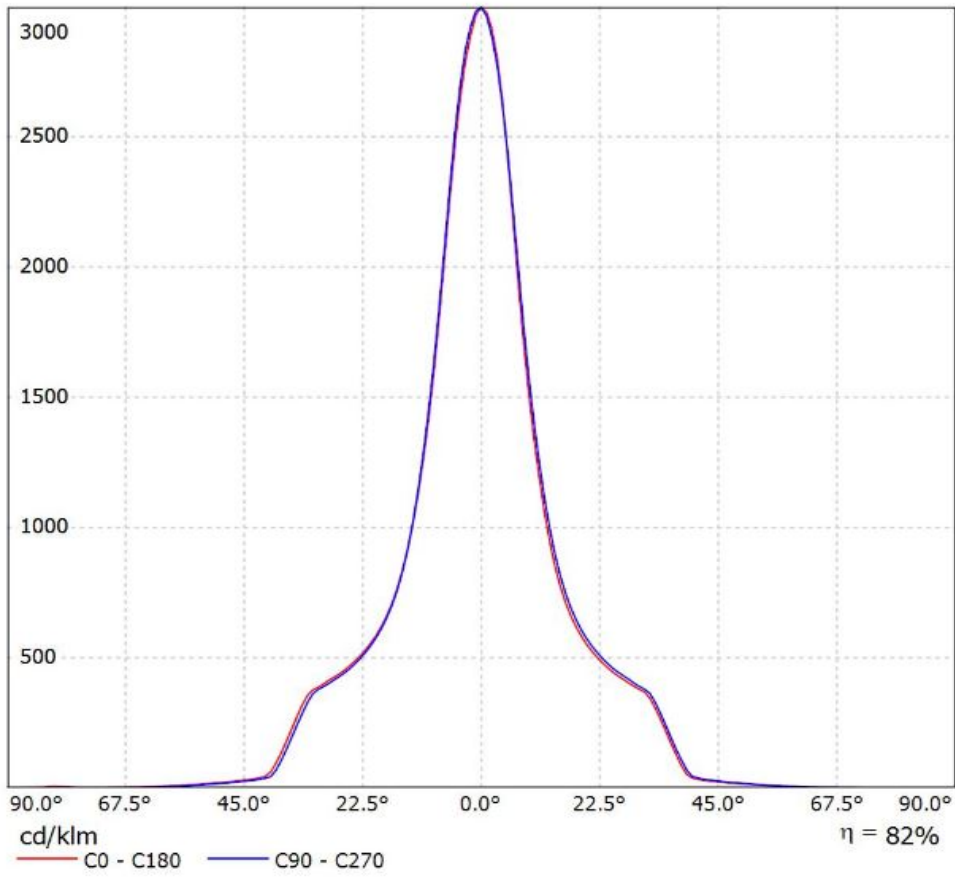


Luminaire: LEDiL Oy F13380_ANGELA-M_(SLM-G5_LES-13)_ (Z50-Optic-Clip)
Lamps: 1 x Fortimo_SLM-G5_LES-13_1300.47lm@250mA_P=8.4010W_I=0.250A

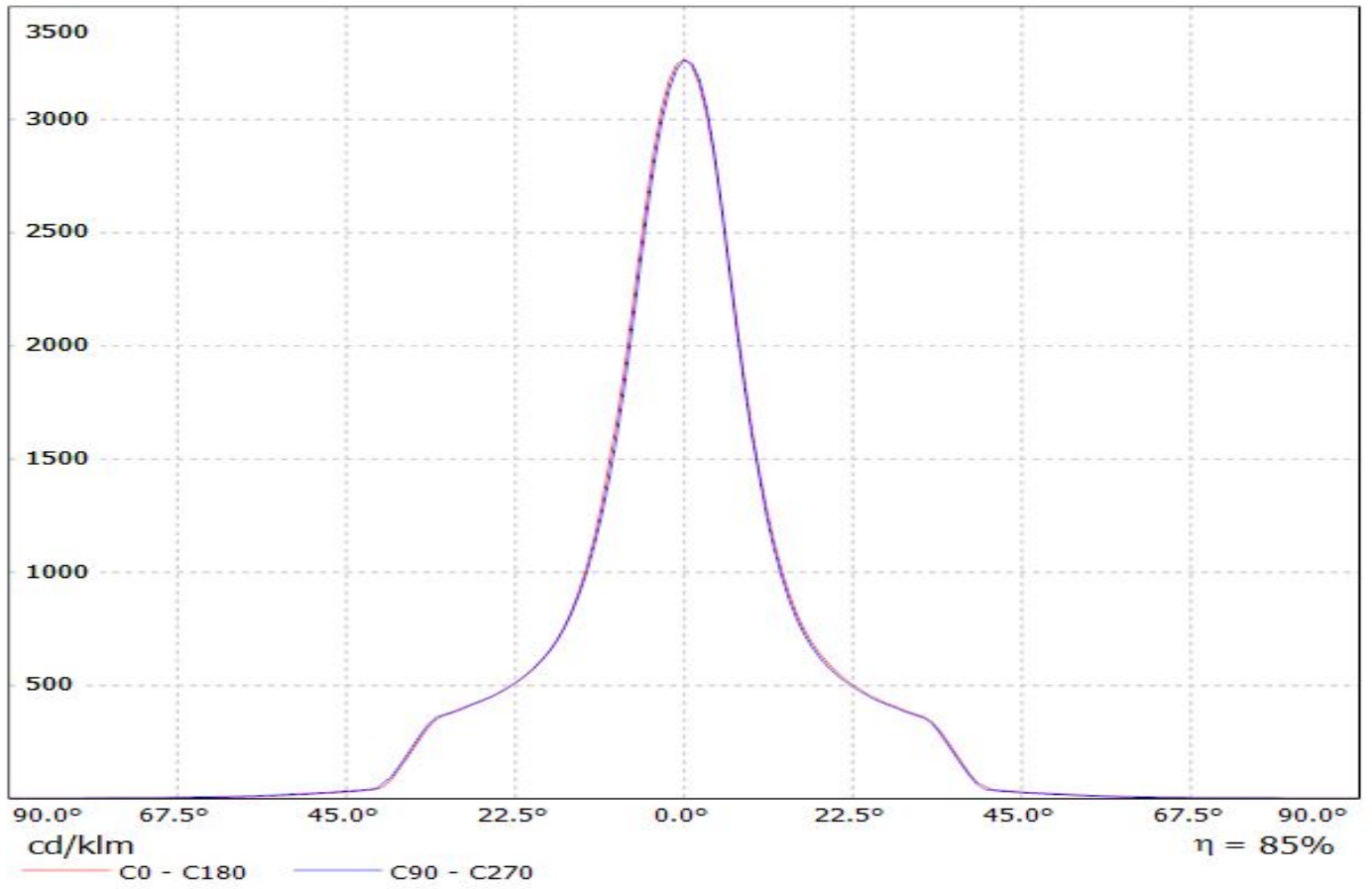


Luminaire: Ledil F13380_ANGELA-M_(SLM_1211_L19_G6_+TE)

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

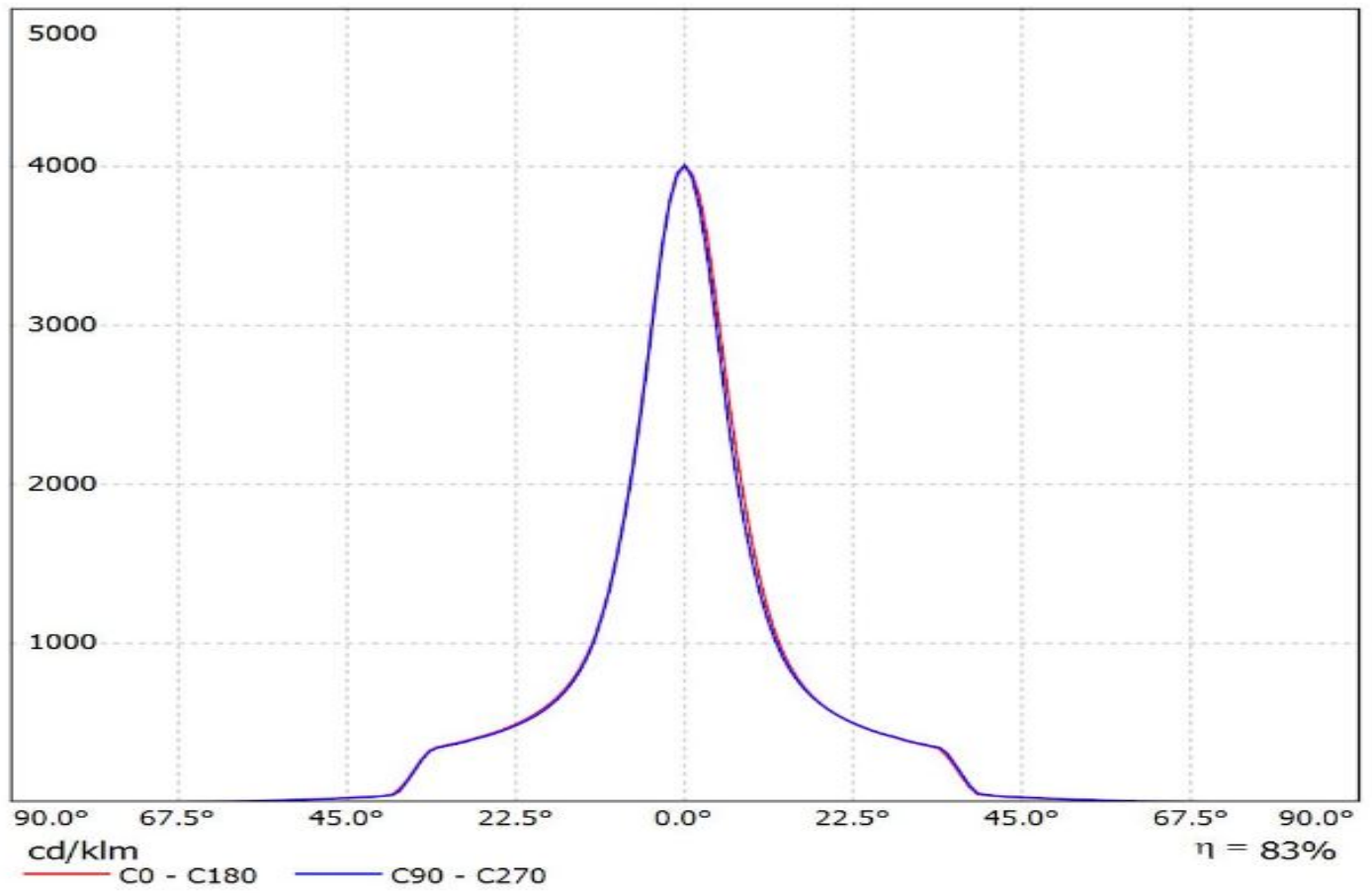


Luminaire: LEDiL Oy F13380_ANGELA-M_(COB-LC026B) Eff.85.2%
Lamps: 1 x SAMSUNG_COB-LC026B_(SPHWWTHDNC25YHV52F)
_1122.94lm@250mA_P=8.2479W_I=249.8mA



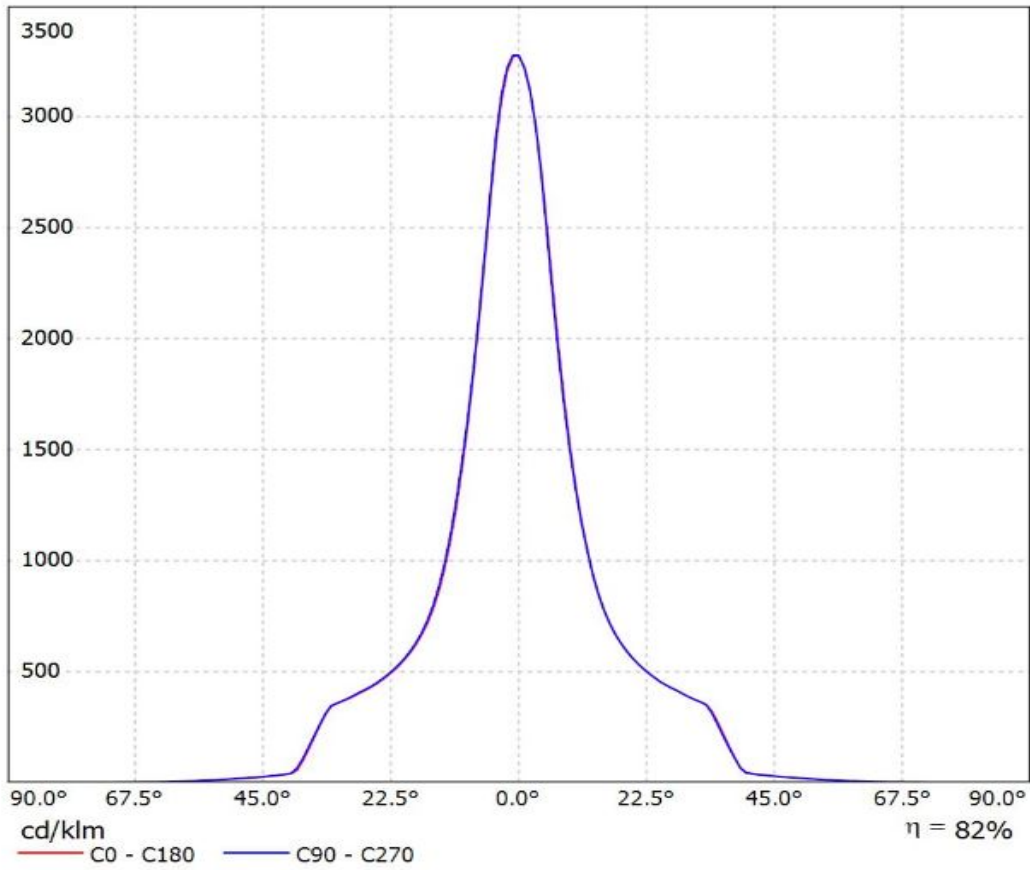
Luminaire: Ledil F13380_ANGELA-M_(LC040C+TE)

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



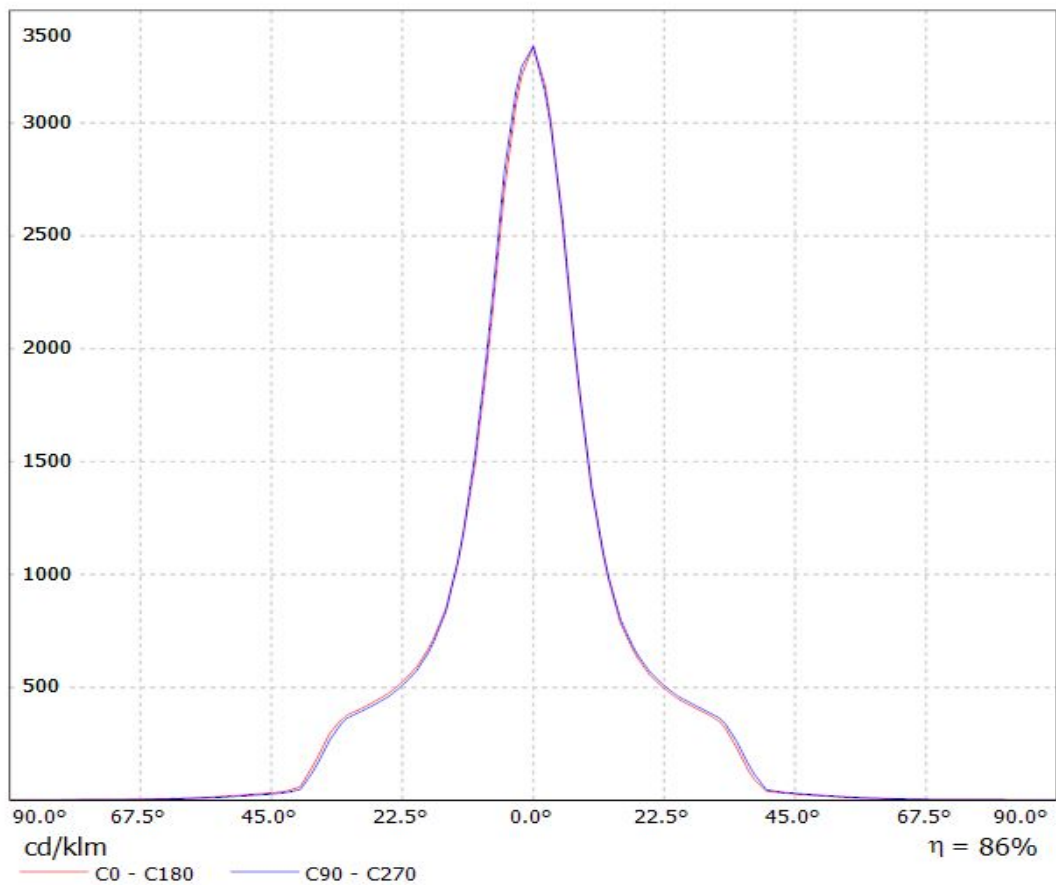
Luminaire: Ledil F13380_ANGELA-M (MJT_30W_Les14,5)_TE

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

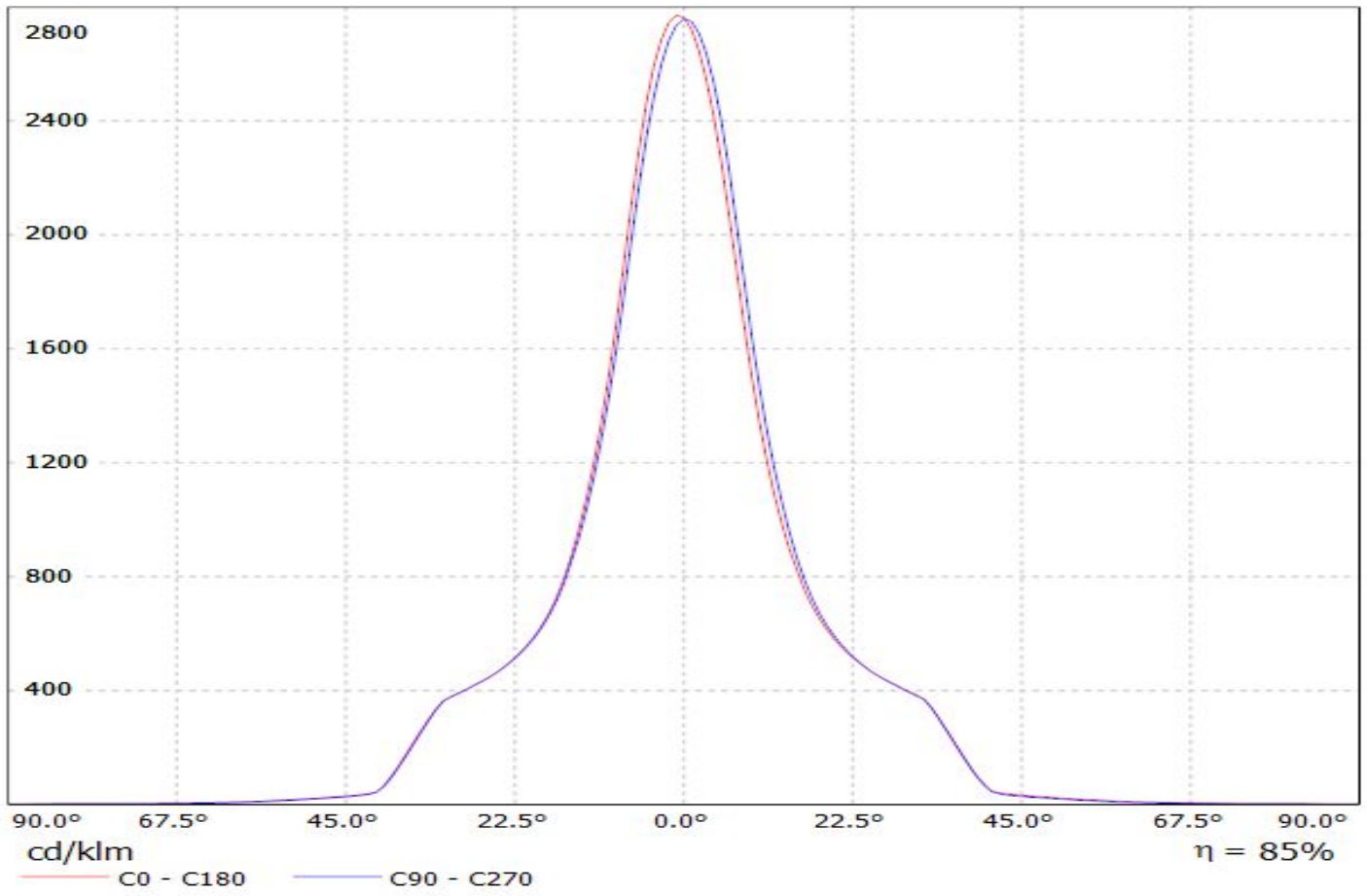


Luminaire: LEDiL Oy F13380_ANGELA-M_(STARK_LES19)

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

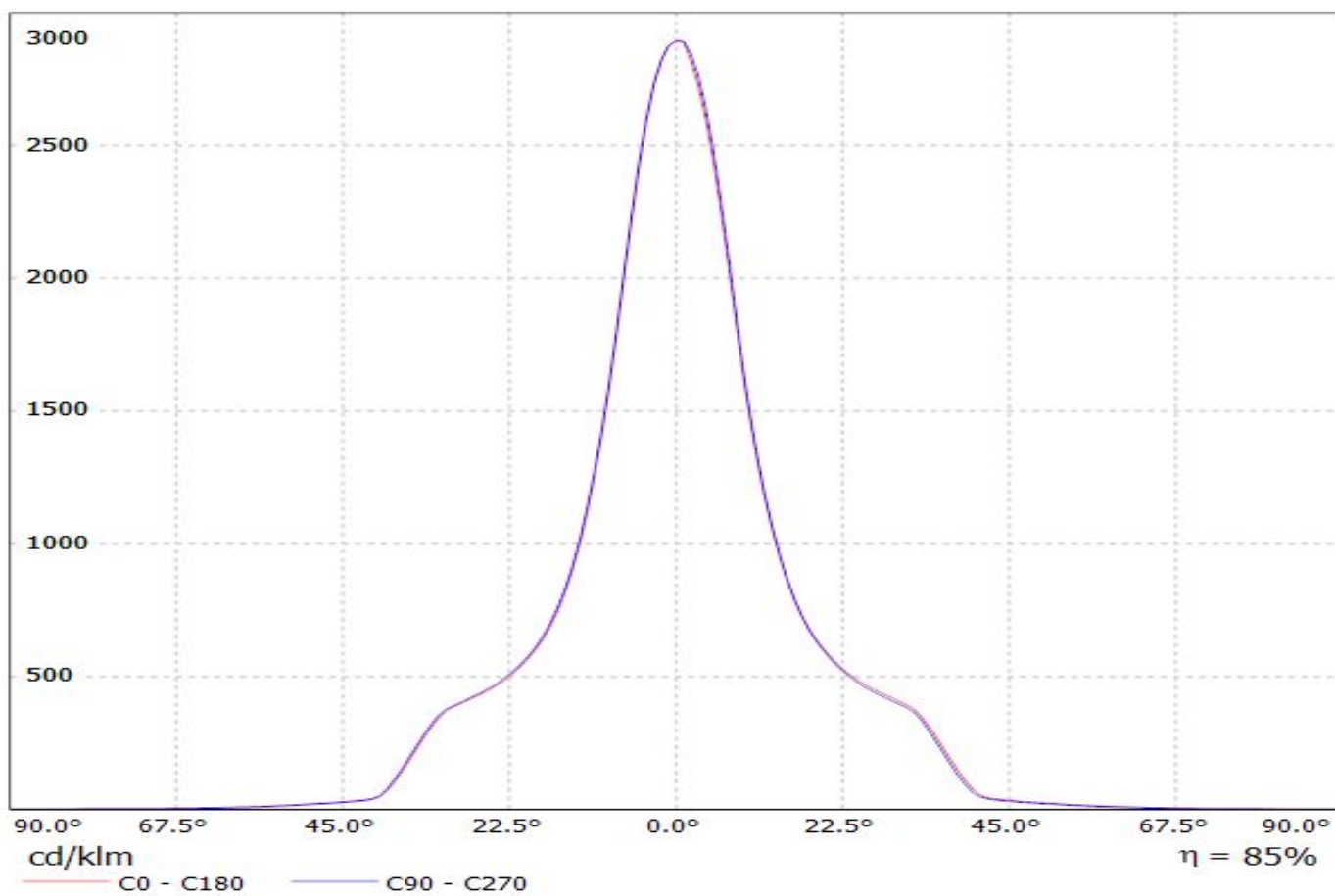


Luminaire: LEDiL Oy F13380_ANGELA-M_(STARK_LES23) Eff. 85.3%
Lamps: 1 x Tridonic_STARK_SLE_G3_LES23_795.318lm@250mA_P=8.22646W_I=249.9mA

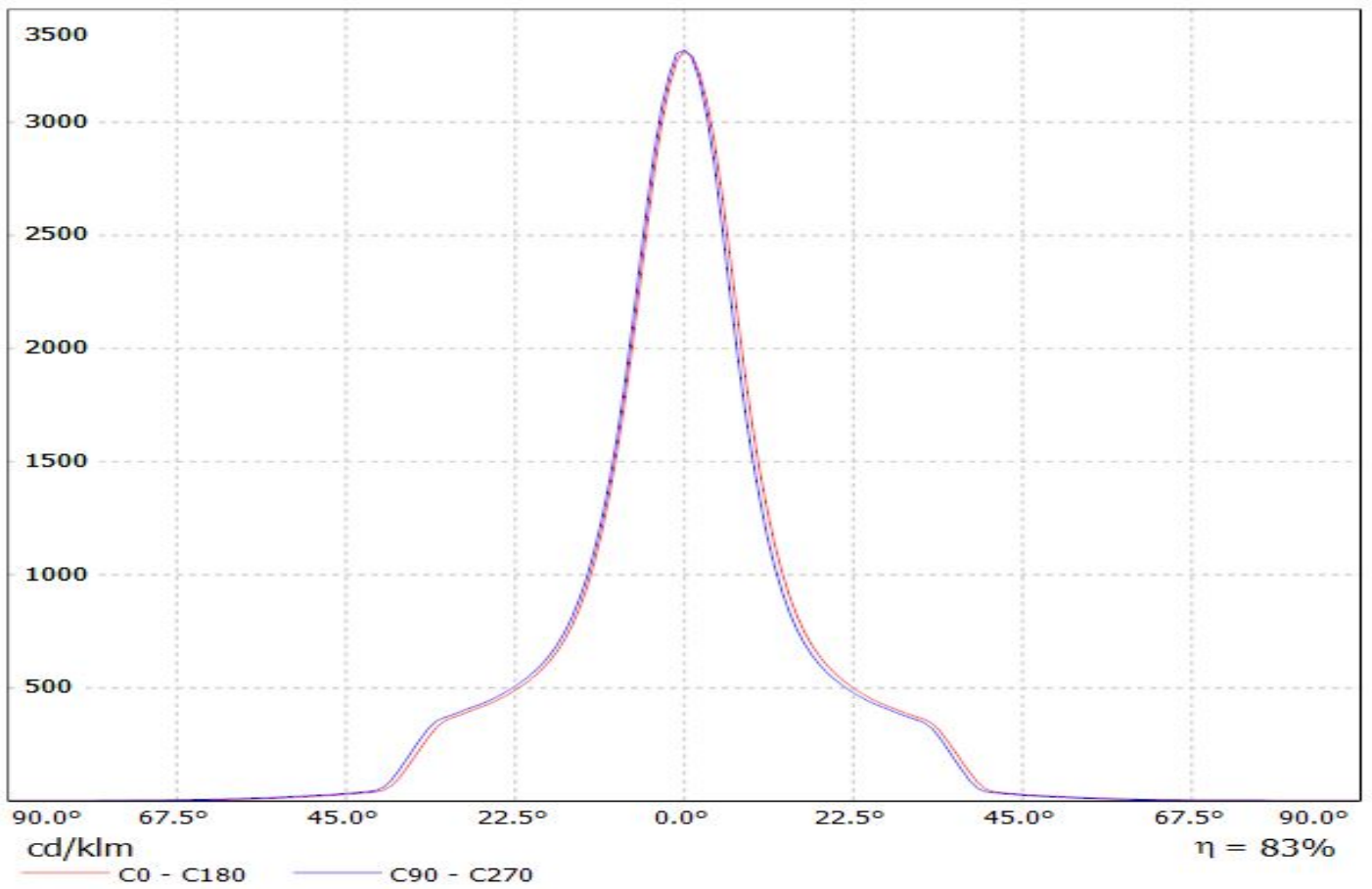


Luminaire: LEDiL Oy F13380_ANGELA-M_(SLE_G4_LES23)

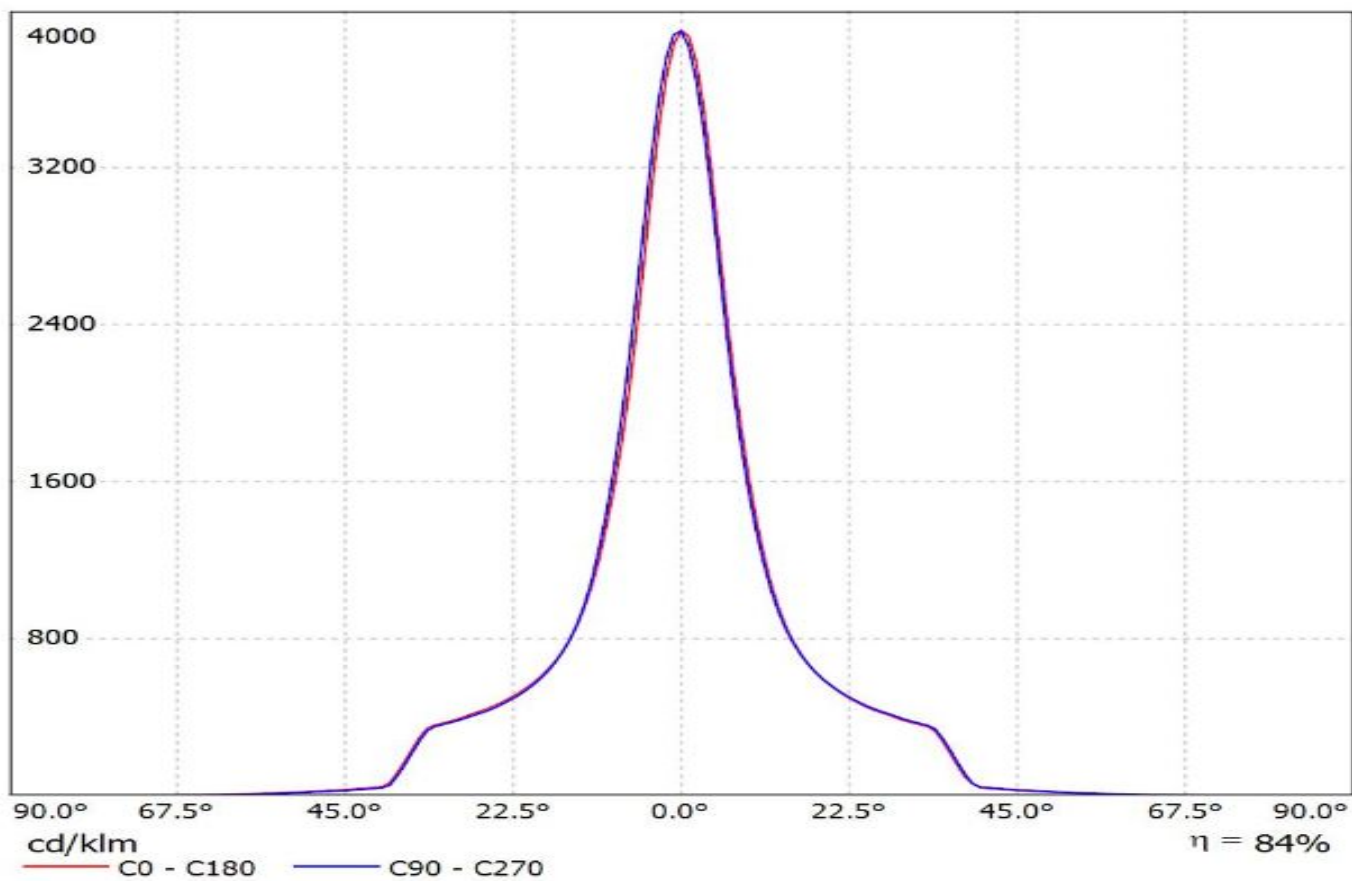
Lamps: 1 x Tridonic_SLE_G4_LES23_1354.57lm@250mA_P=8.18744W_I=0.2498A



Luminaire: LEDiL Oy F13380_ANGELA-M_(SLE GEN4 LES19)
Lamps: 1 x SLE GEN4 LES19_1226.28lm@250mA_P=8.21367W_I=0.2498A

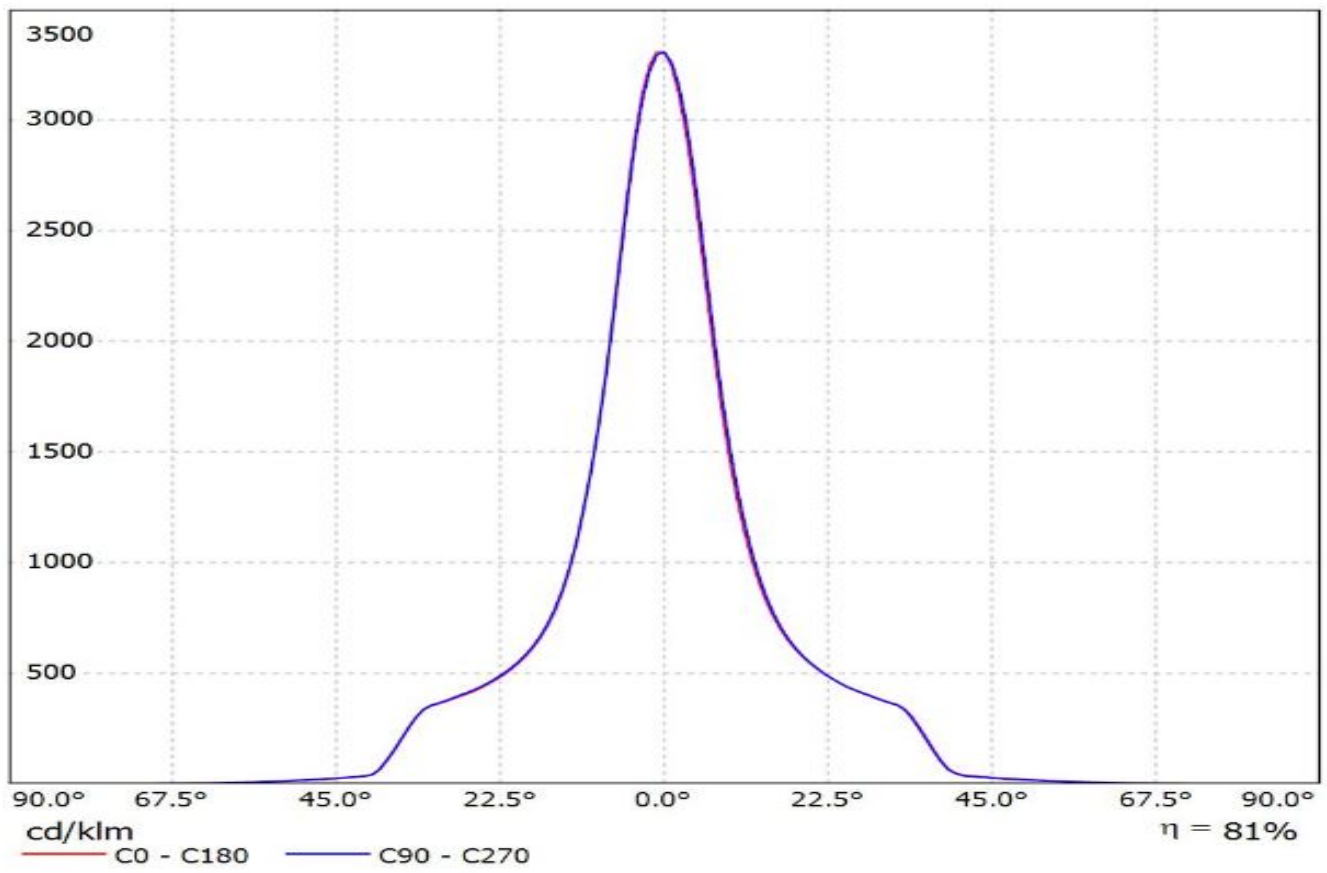


Luminaire: LEDiL Oy F13380_ANGELA-M_(SLE-G5_LES-15)
Lamps: 1 x Tridonic_SLE-G5_LES-15_1238lm@250mA_P=8.6575W_I=0.250A



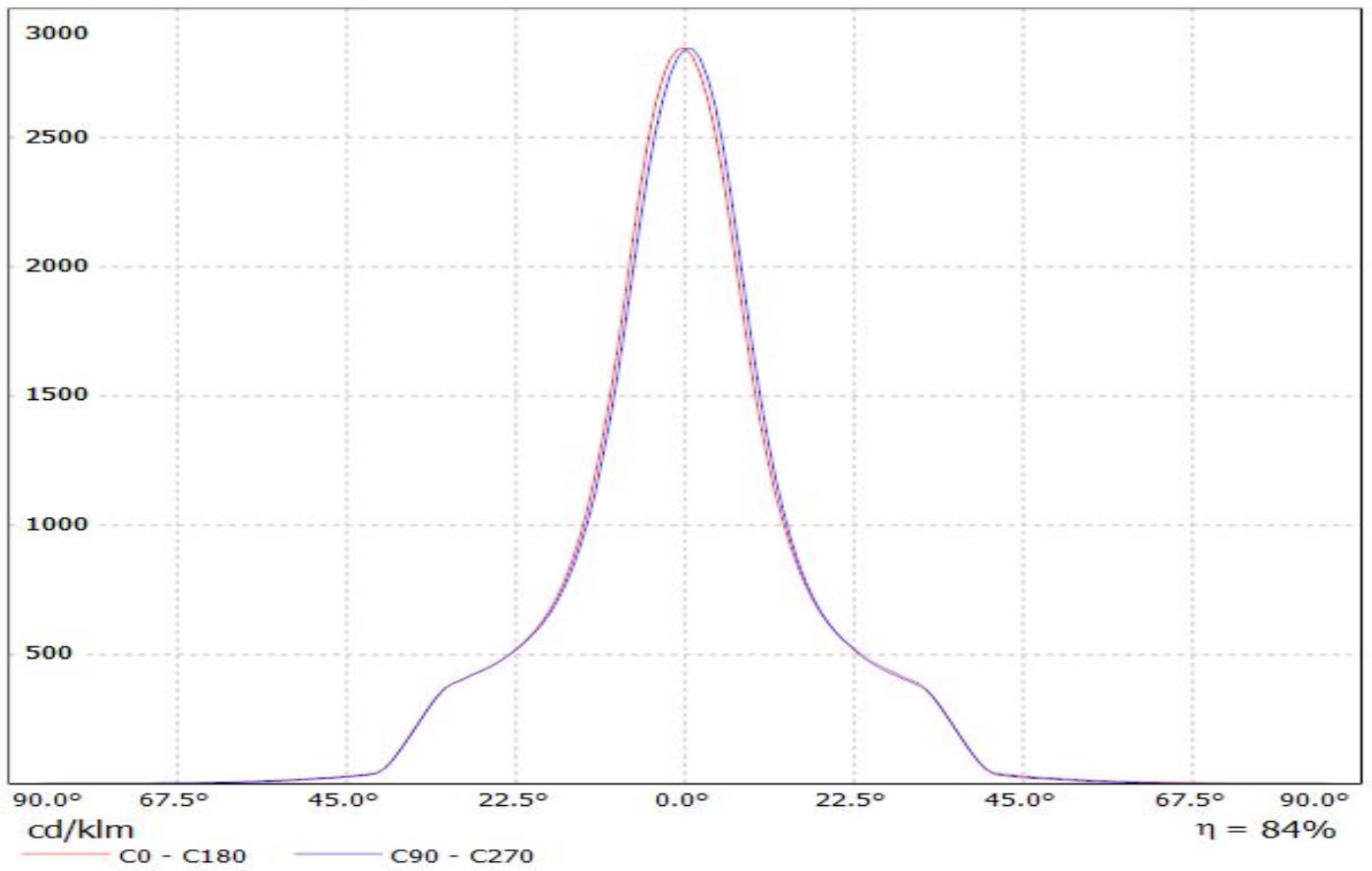
Luminaire: LEDiL Oy F13380_ANGELA-M_(SLE-G5_LES-19)

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

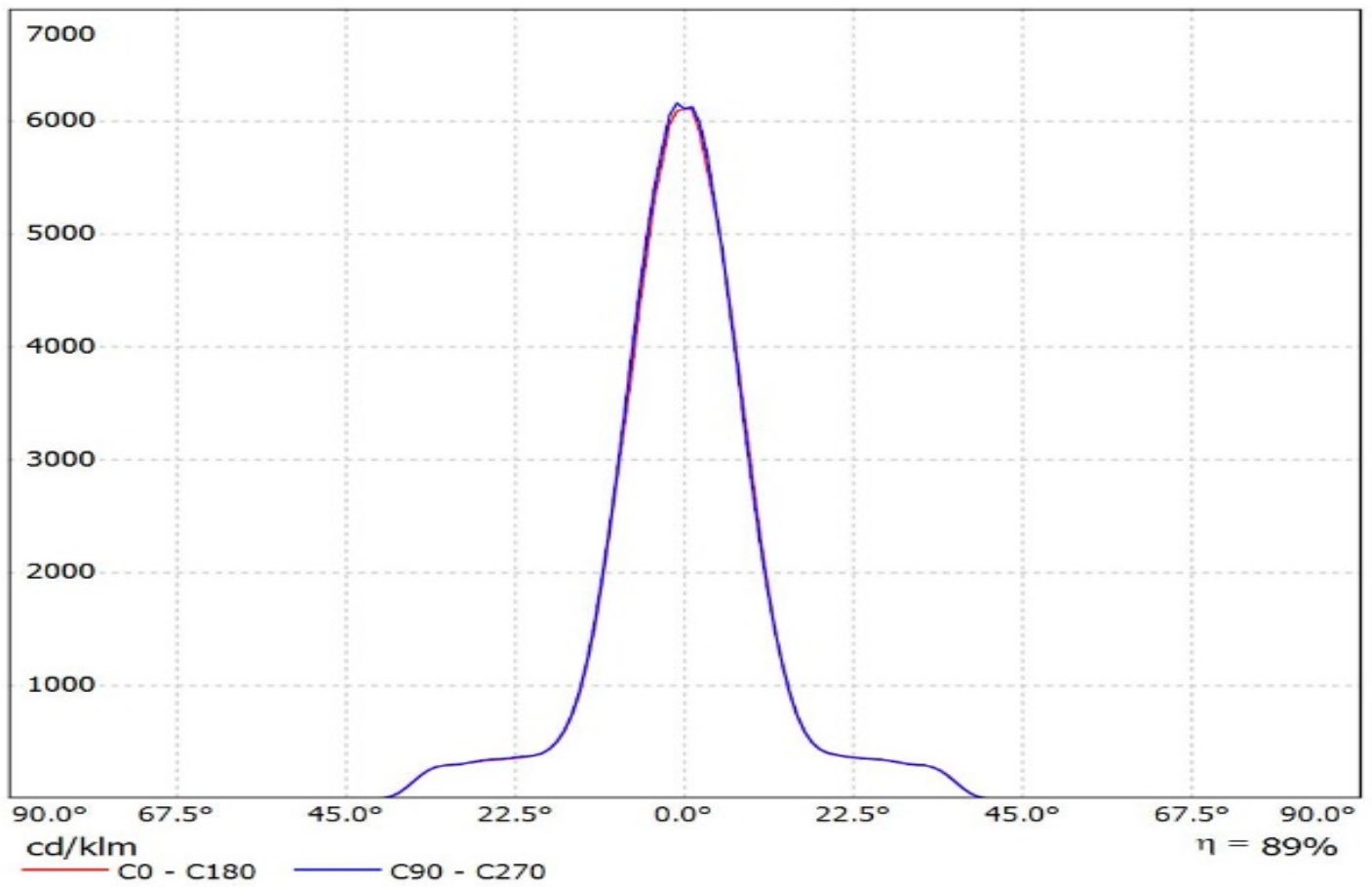


Luminaire: LEDiL Oy F13380_ANGELA-M_(SLE-G5_LES-23)

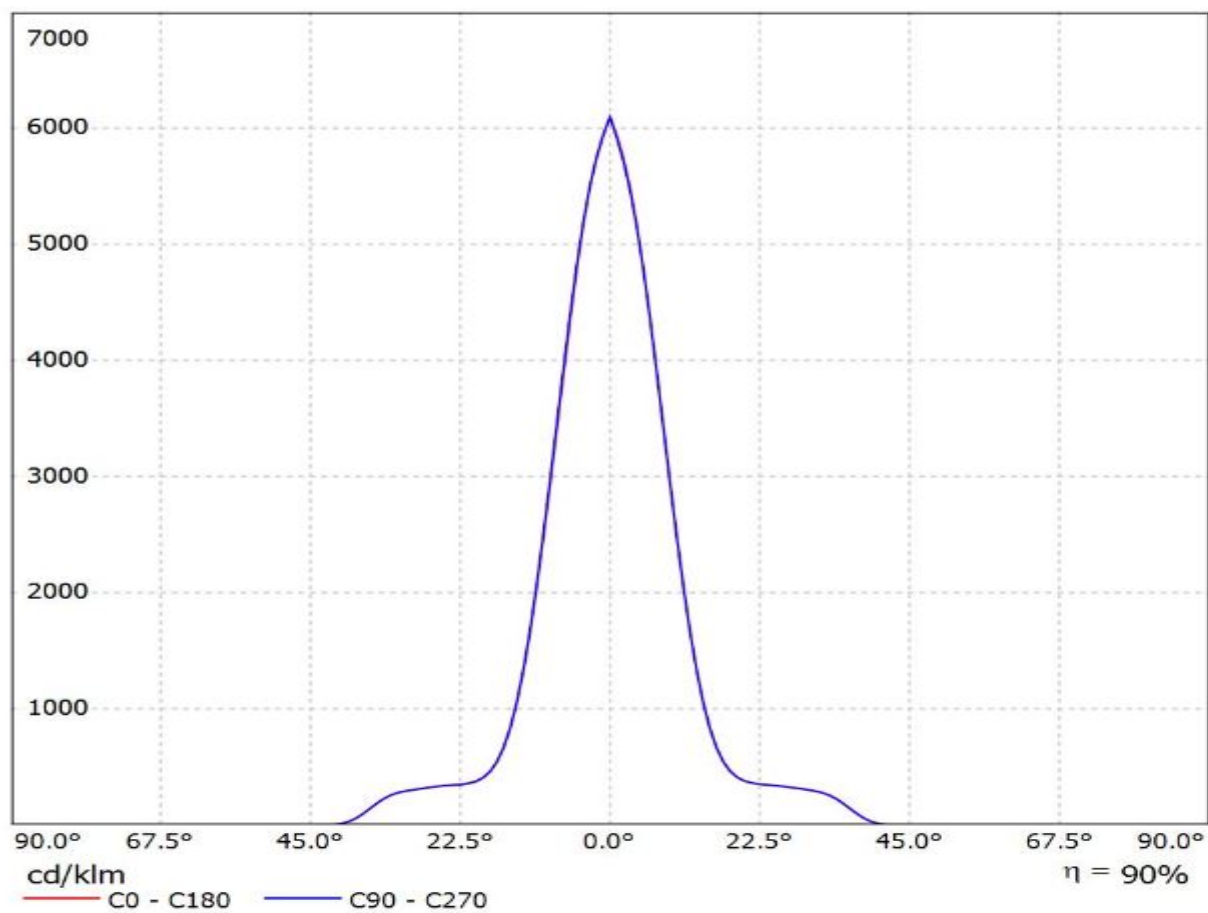
Lamps: 1 x Tridonic_SLE-G5_LES-23_1303.96lm@250mA_P=8.1062W_I=0.250A



Luminaire: Ledil Oy F13380_ANGELA-M_(SLE_G6_LES15)_(2213254-2_+ 2213194-1)_SIMULATED
Lamps: 1 x Tridonic SLE G5 LES15 + Tyco Electronics 2213254-2 + TE 2213194-1 optic clip

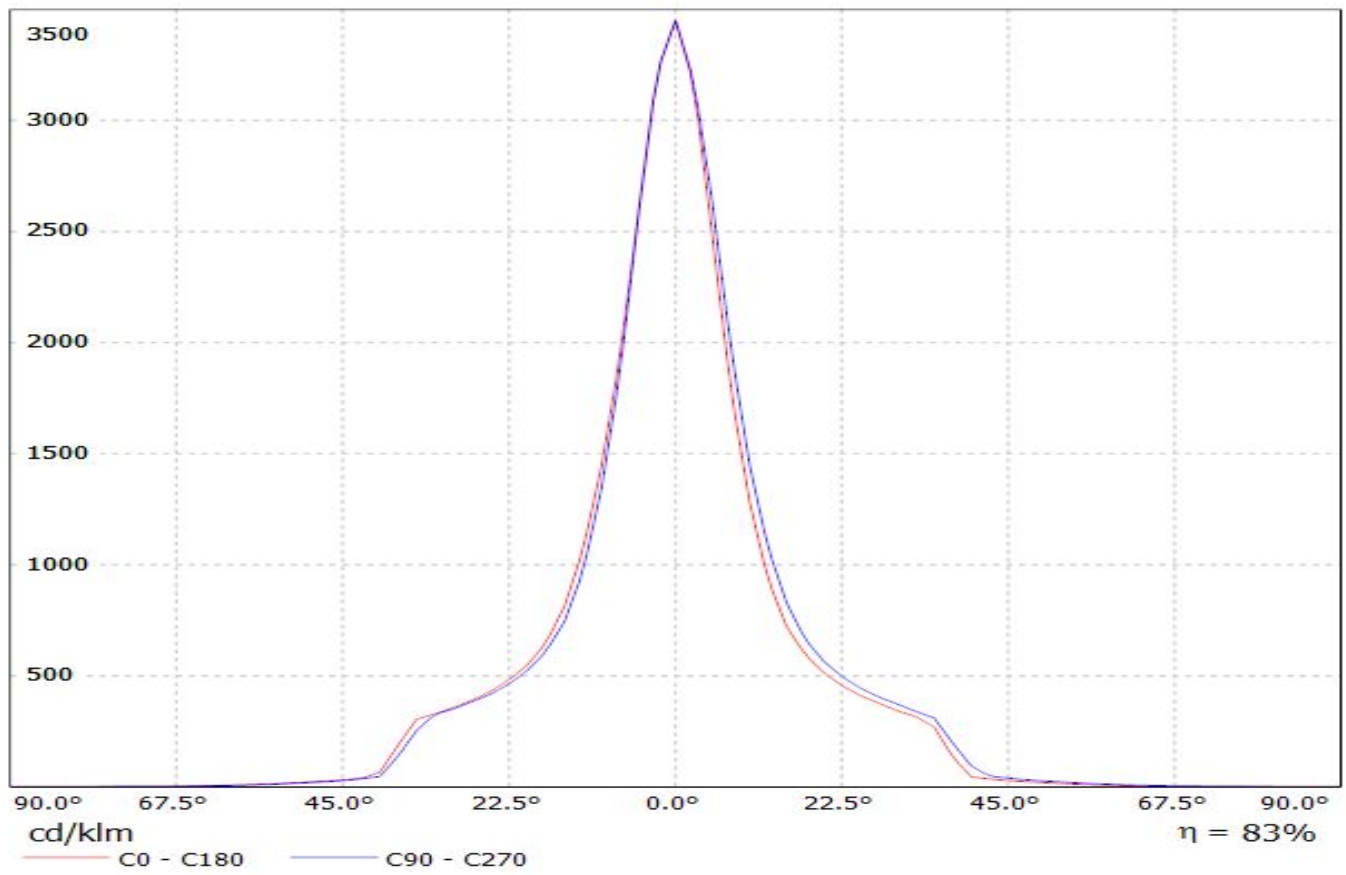


Luminaire: Ledil Oy F13380_ANGELA-M+_TE_2213254-2+_TE_Z50_Type1_TRIDONIC_SLE_G6_LES17_SIMULATED
Lamps: 1 x TRIDONIC SLE G6 LES17



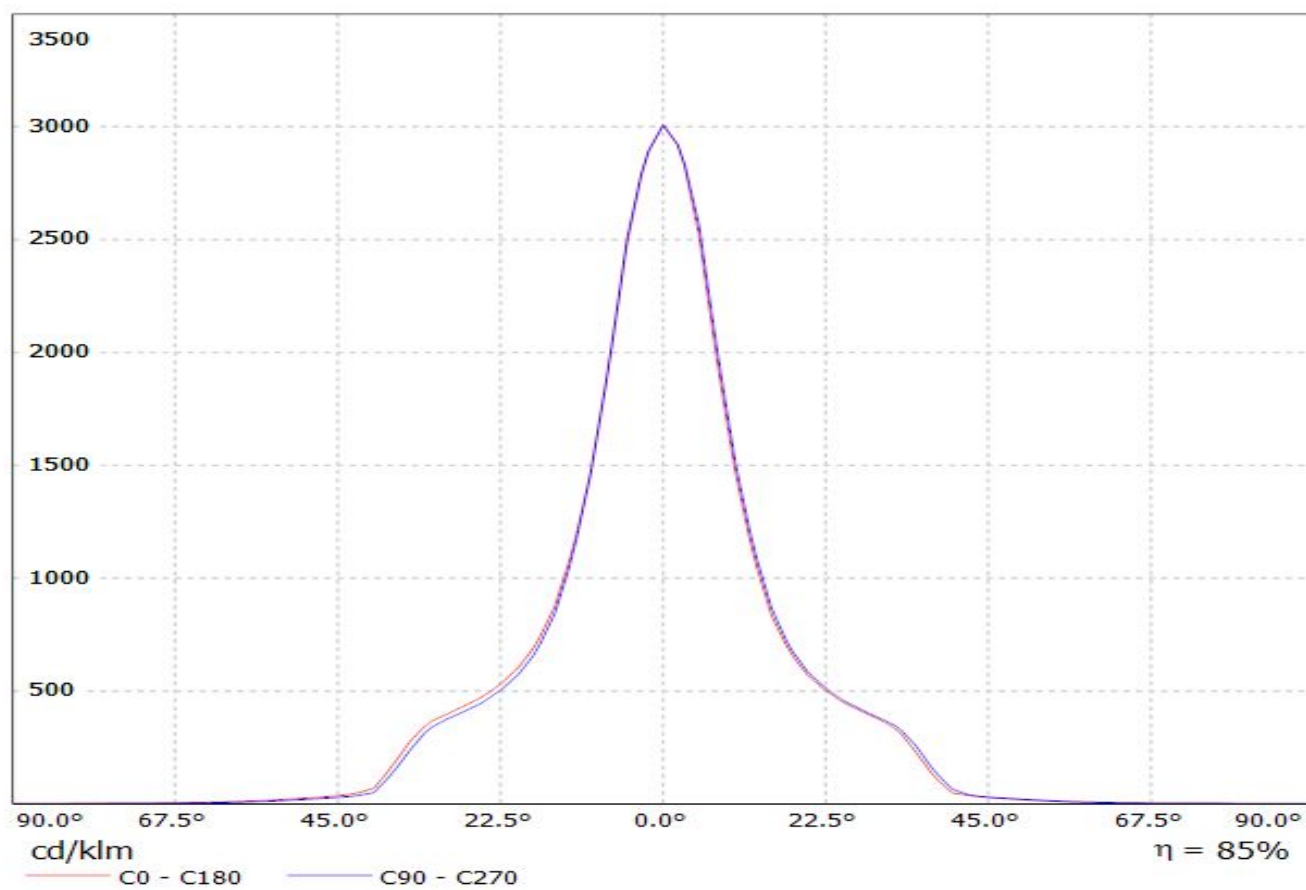
Luminaire: LEDiL Oy F13380_ANGELA-M (WU-M-461-827)

Lamps: 1 x Vossloh_WU-M-461-827_785.152lm@250mA_P=6.30695W_I=249.8mA



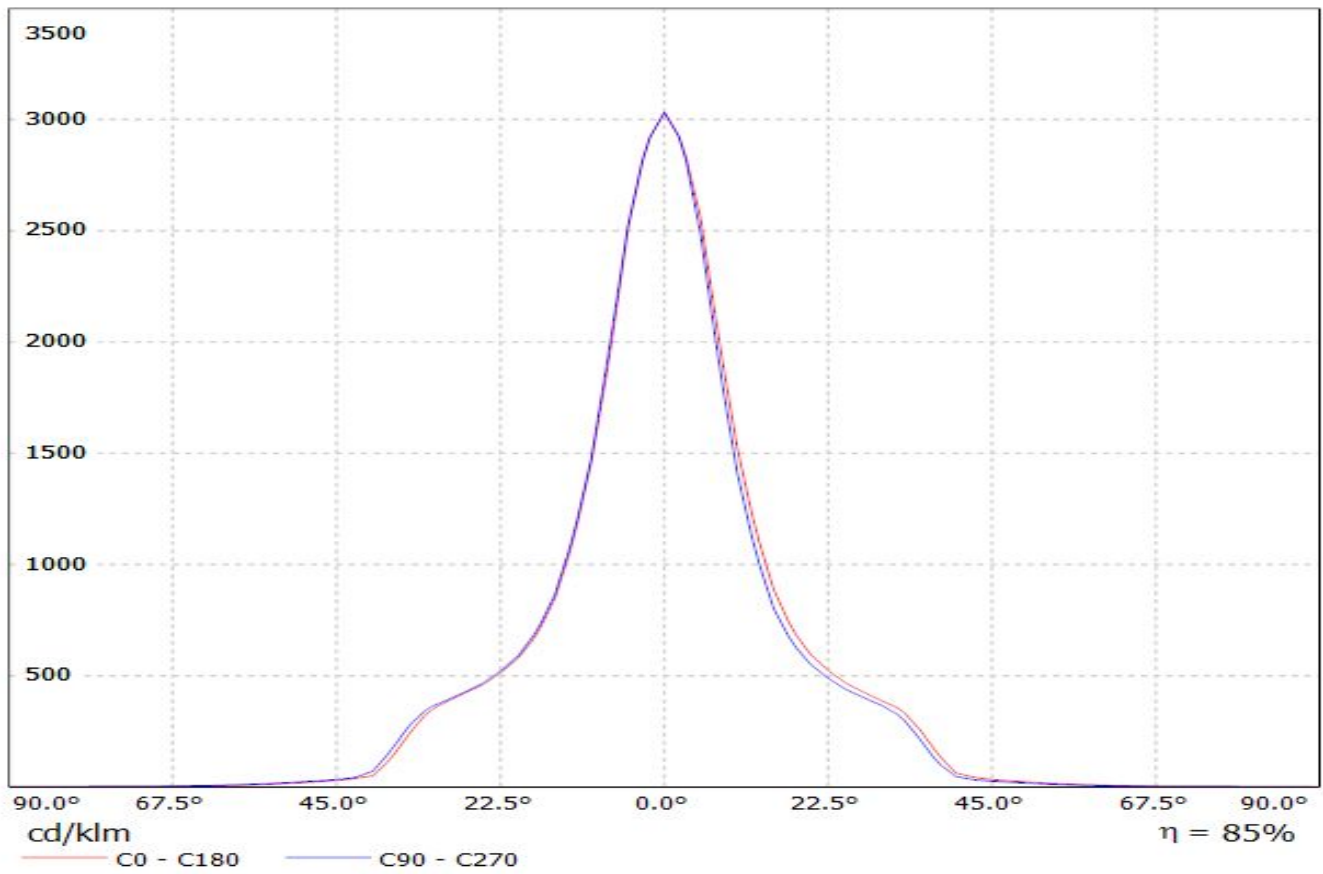
Luminaire: LEDiL Oy F13380_ANGELA-M_(WU-M-462-827)

Lamps: 1 x Vossloh_WU-M-462-827_1116.7lm@250mA_P=8.9943W_I=249.8mA



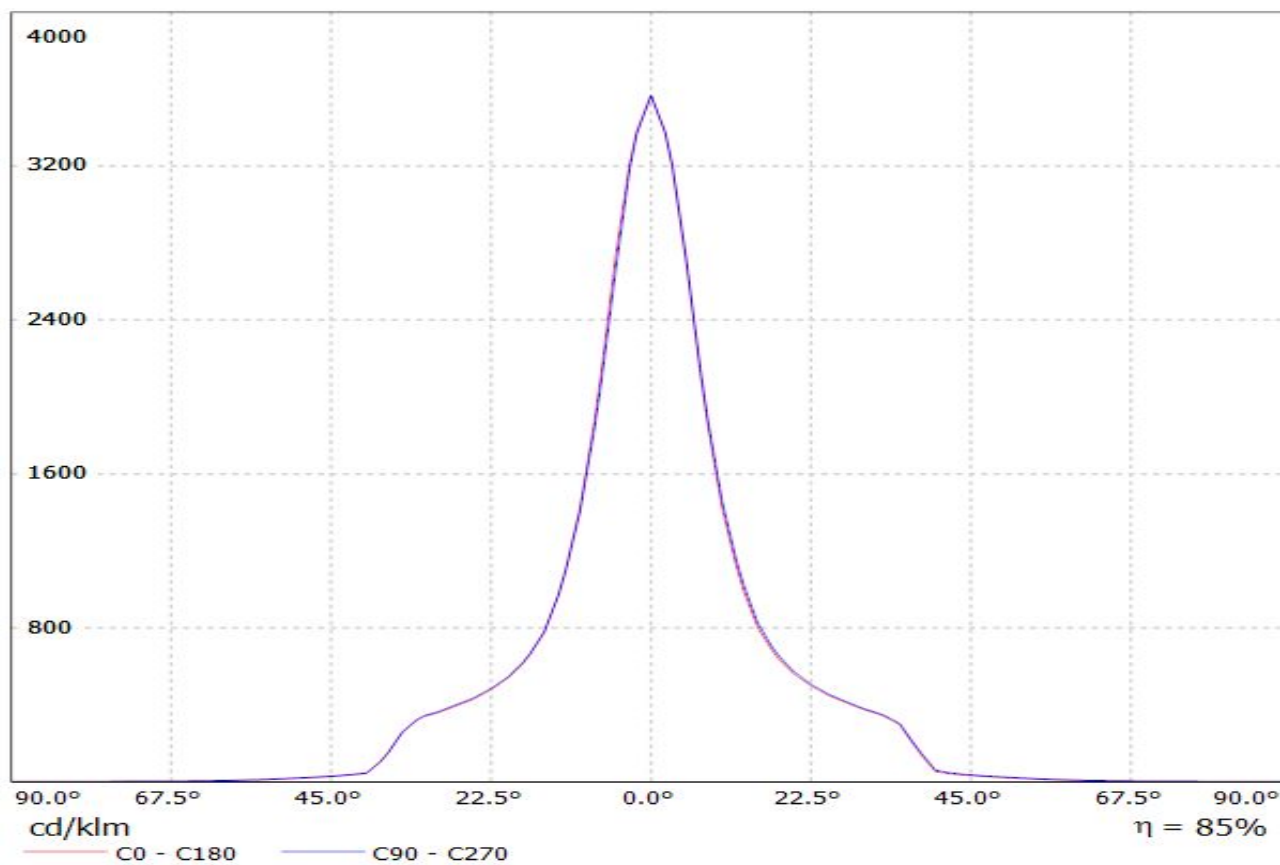
Luminaire: LEDiL Oy F13380_ANGELA-M_(WU-M-464-827)

Lamps: 1 x Vossloh_WU-M-464-827_1452.93lm@250mA_P=11.6939W_I=249.8mA



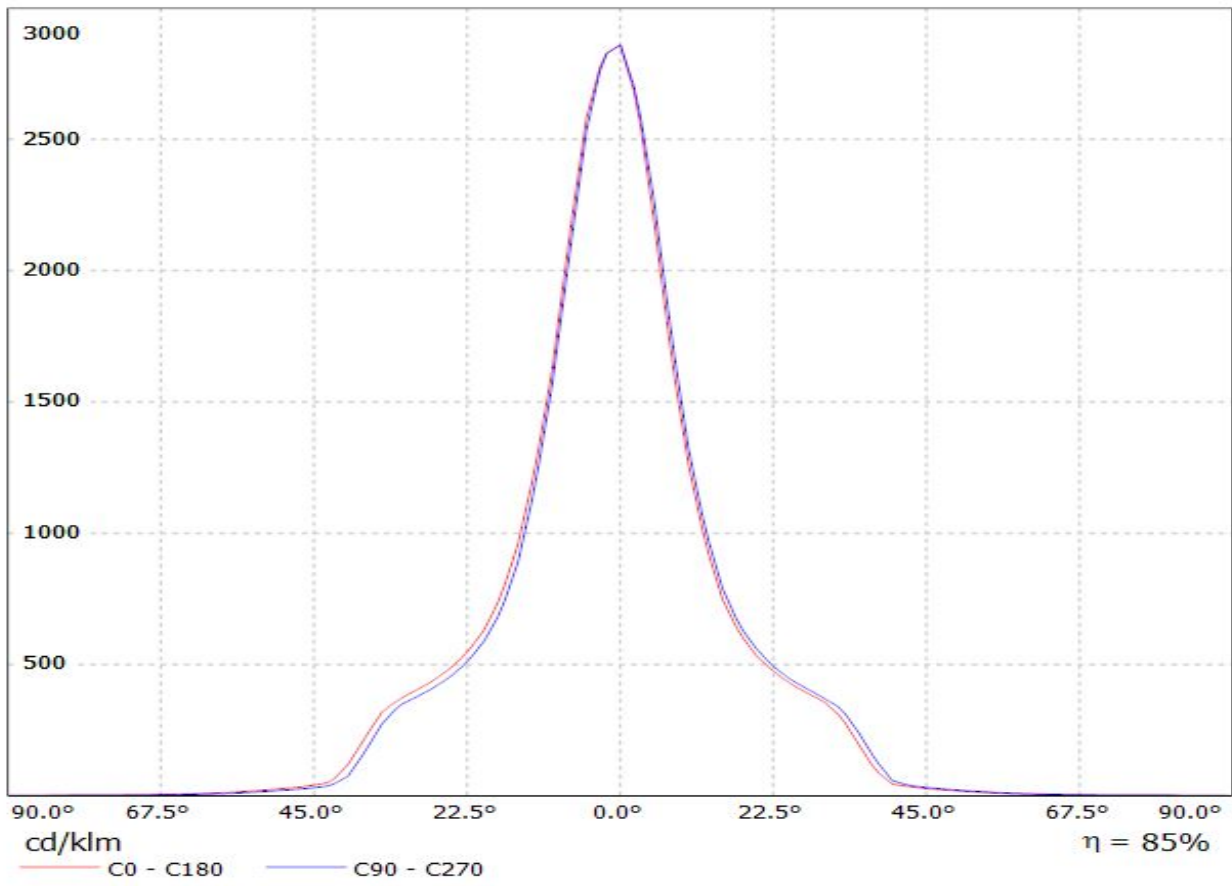
Luminaire: LEDiL Oy F13380_ANGELA-M_(WU-M-484)

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

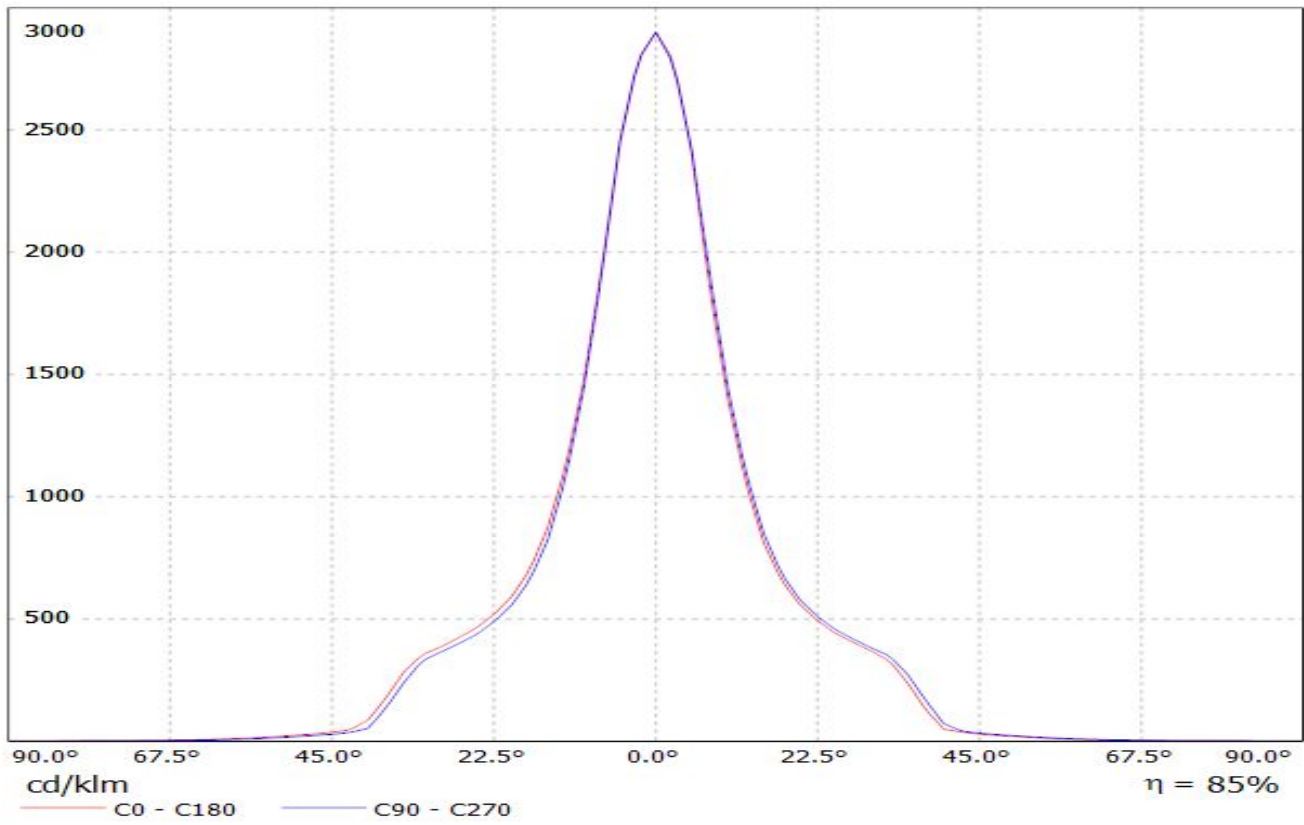


Luminaire: LEDiL Oy F13380_ANGELA-M_(WU-M-485)

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

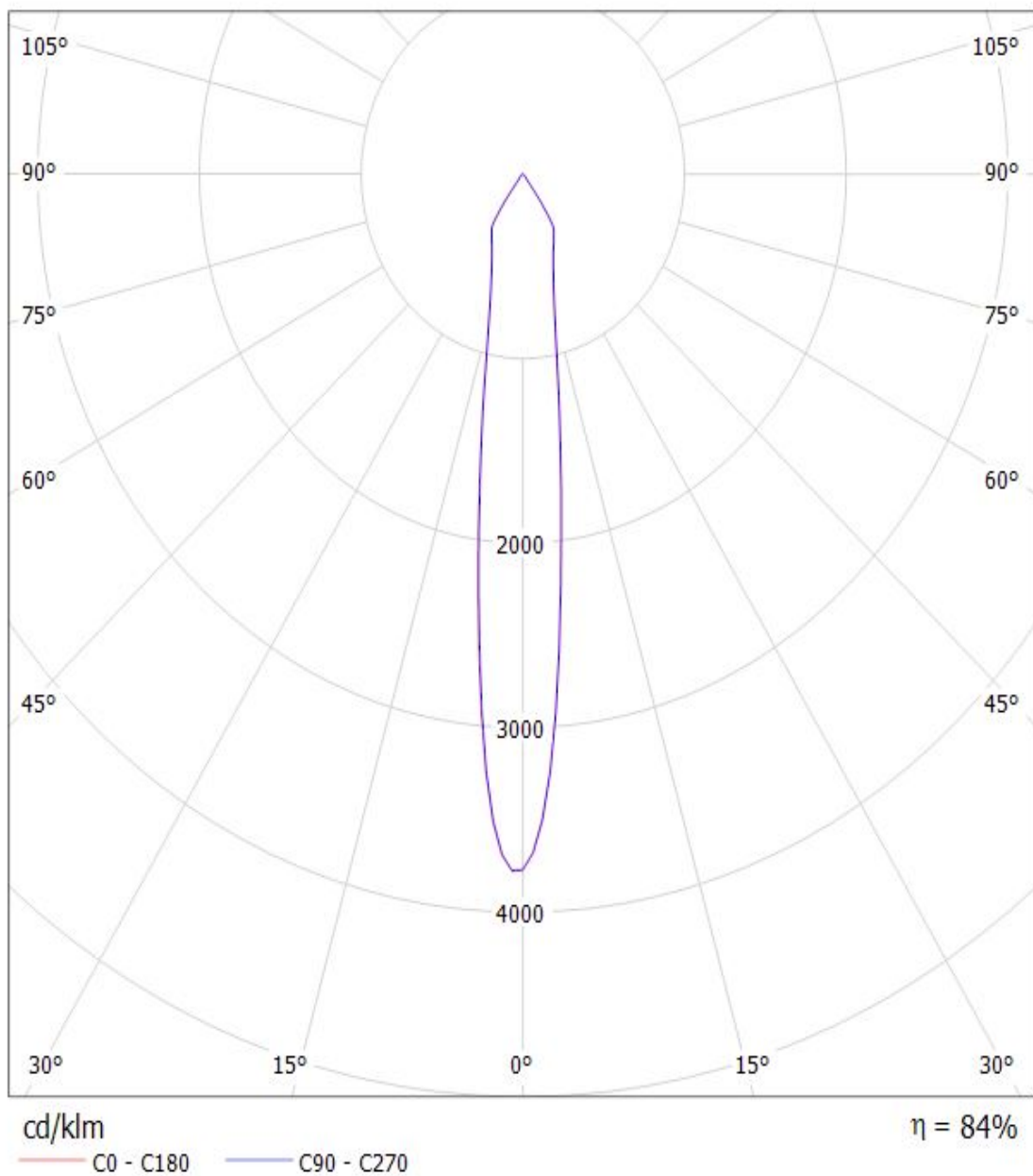


Luminaire: LEDiL Oy F13380_ANGELA-M_(WU-M-486) Eff 84.4%
Lamps: 1 x Vossloh_Schwabe-WU-M-486_(WU-M-486-830)_1474.55lm@250mA_P=10.4456W_I=249.8mA

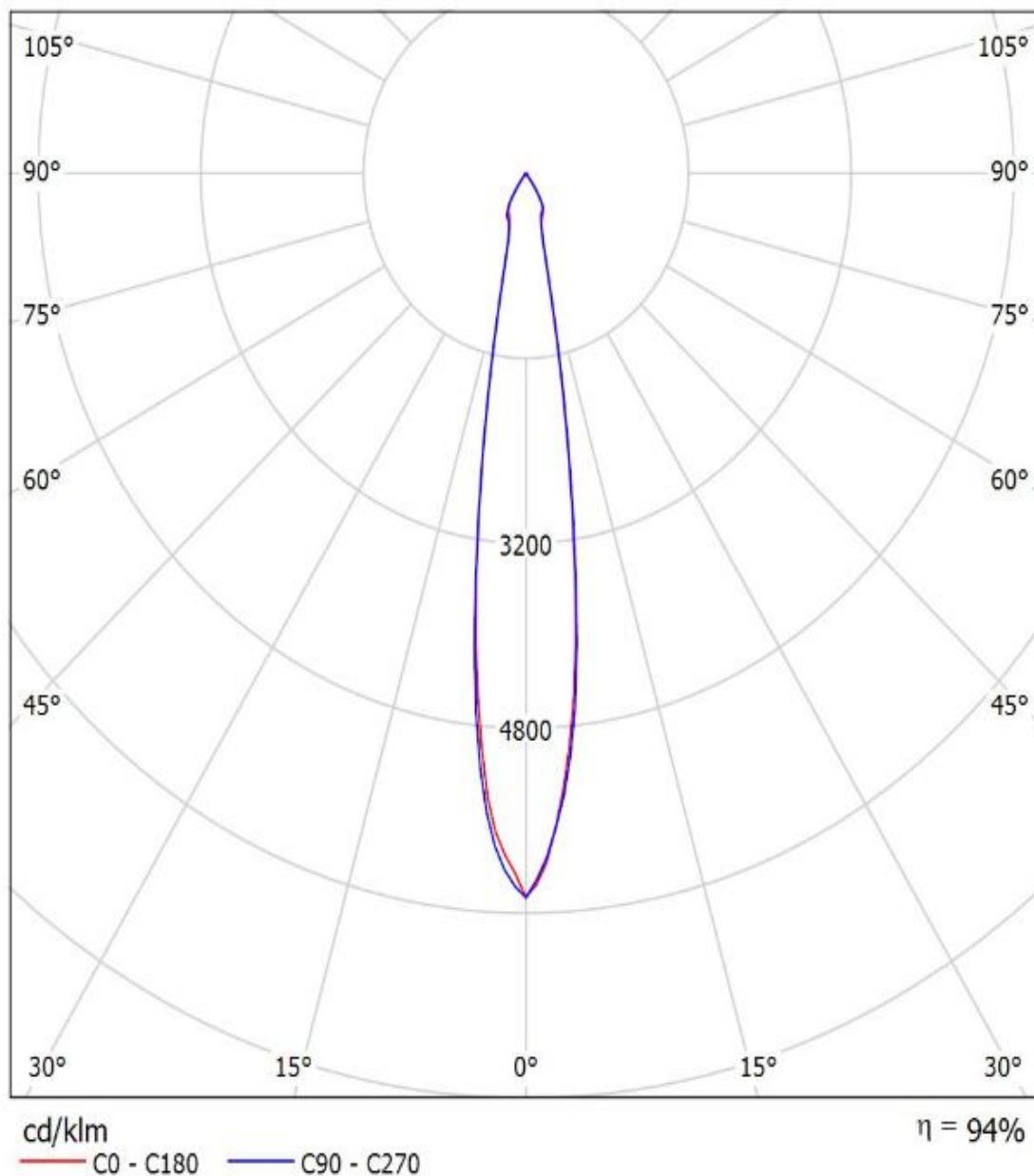


Luminaire: LEDiL Oy F13380_ANGELA-M_(V13_Gen7)+TE

Lamps: 1 x Bridgelux_V13_Gen7_(BXRE-30E2000-B_+TE_2213254-2+TE_2213194-1)_1295.55lm@250mA_P=8.30985W_I=0.25A

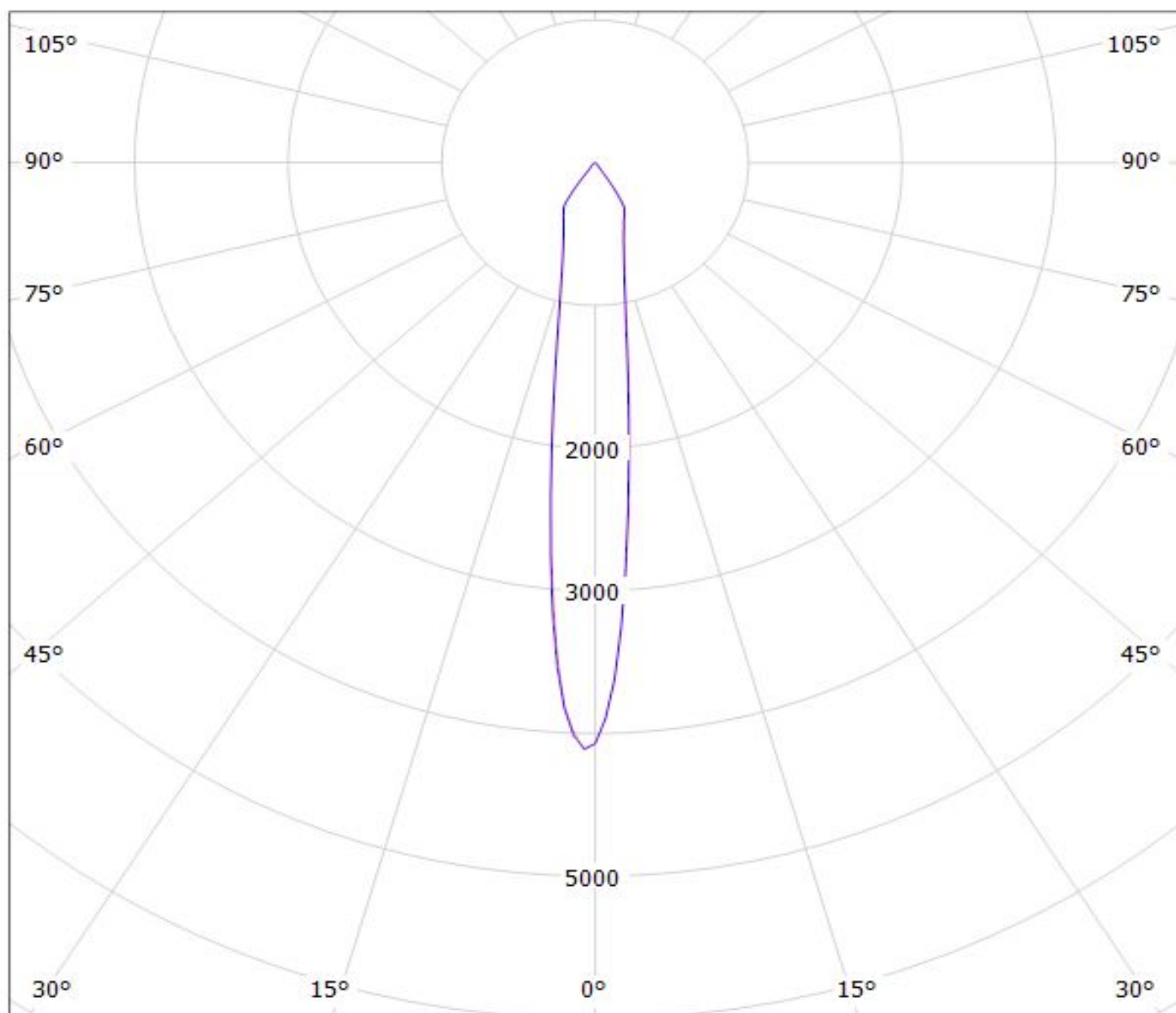


Luminaire: Ledil Oy F13380_ANGELA-M_Bridgelux_V22_Gen7_SIMULATED F13380_ANGELA-M_Bridgelux_V22_Gen7_SIMULATED
Lamps: 1 x F13380_ANGELA-M_Bridgelux_V22_Gen7_SIMULATED



Luminaire: LEDiL Oy F13380_ANGELA-M_(CLL030)

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



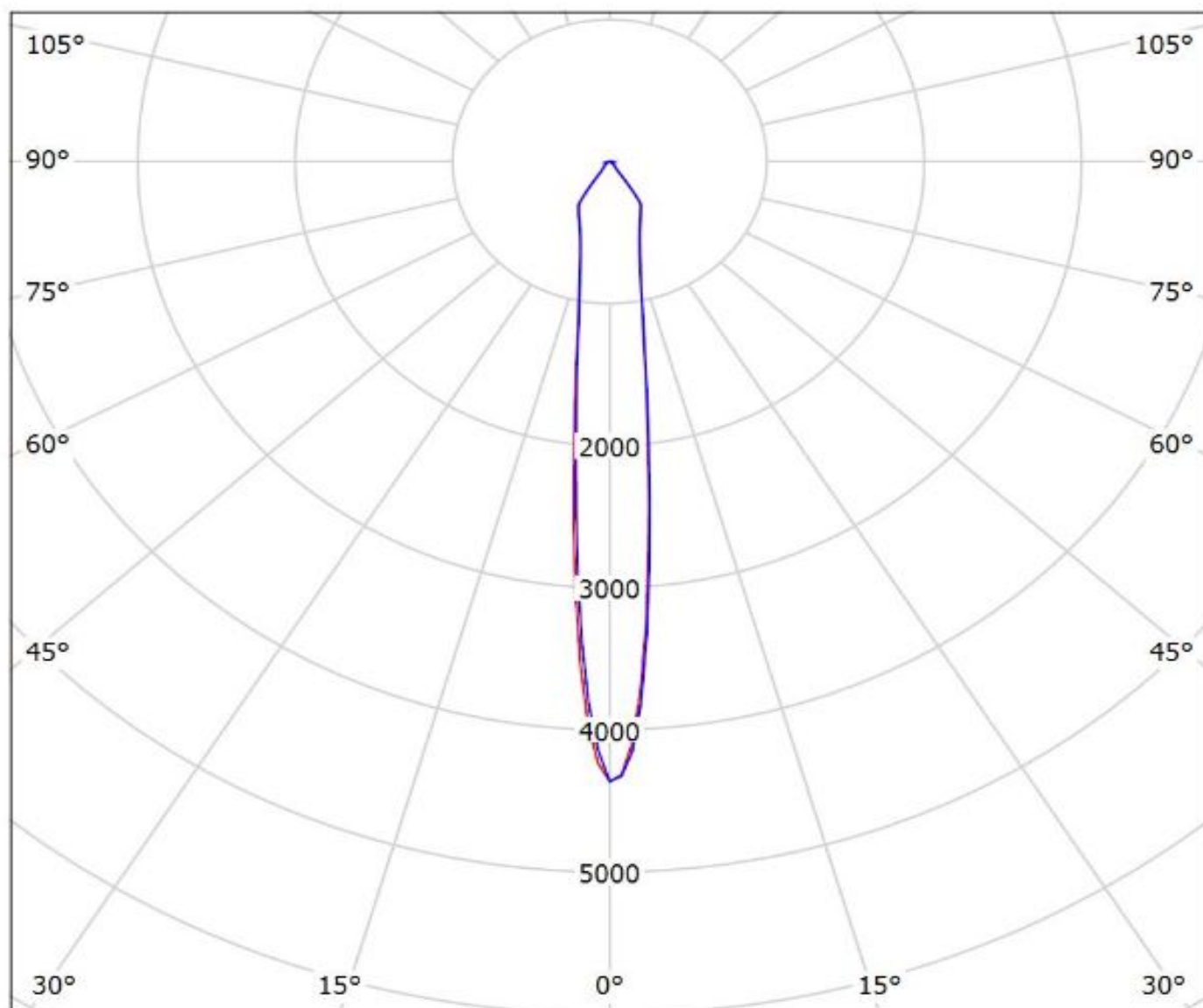
cd/klm

$\eta = 84\%$

— C0 - C180

— C90 - C270

Luminaire: Ledil FF13380_ANGELA-M_(CLU720)
Lamps: 1 x CITIZEN_CLU720_(CLU720-1206B8-273M2)
_1337.27lm@250mA_CCT=2700K_P=8.35W_I=0.25A



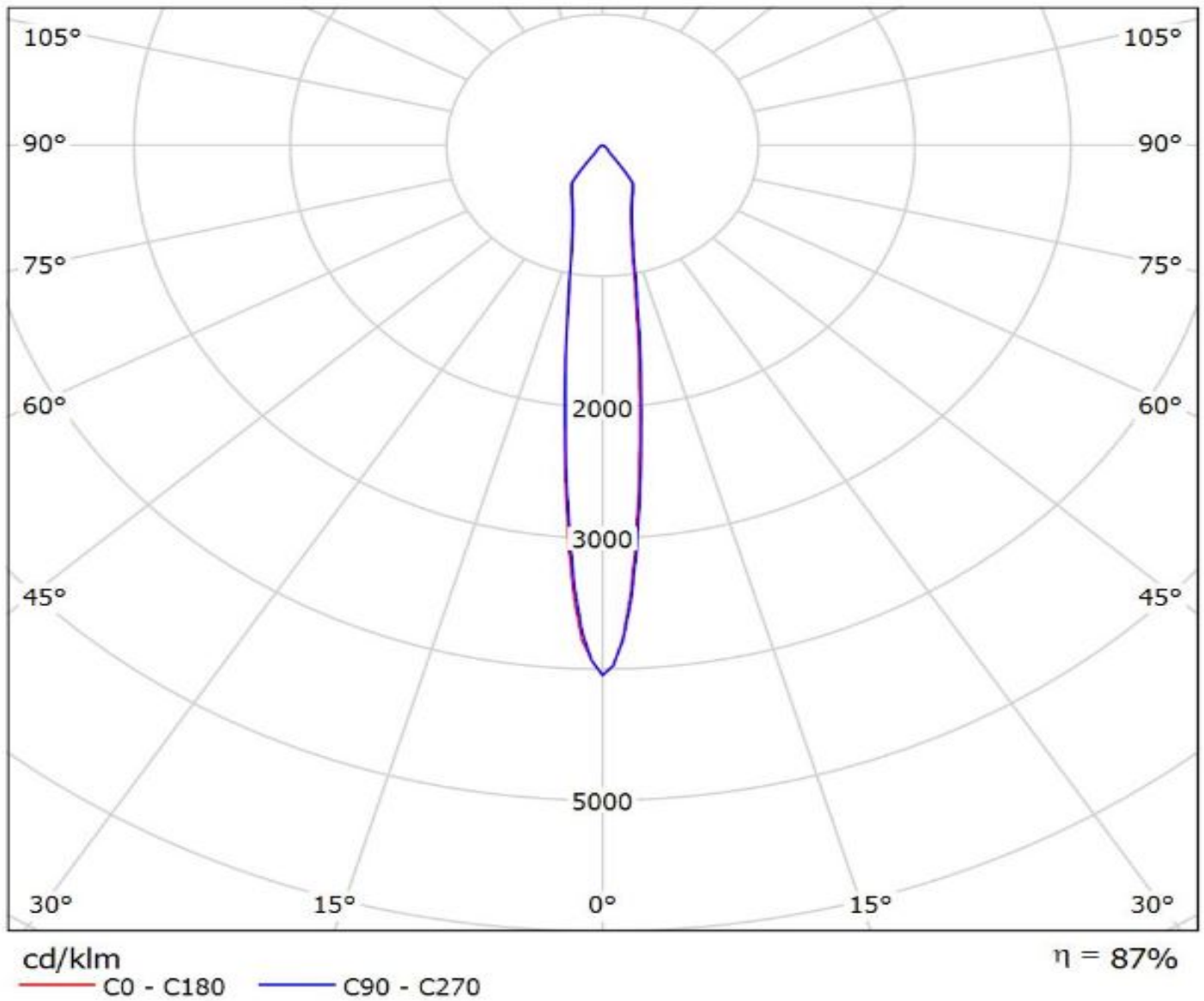
cd/klm

— C0 - C180 — C90 - C270

$\eta = 87\%$

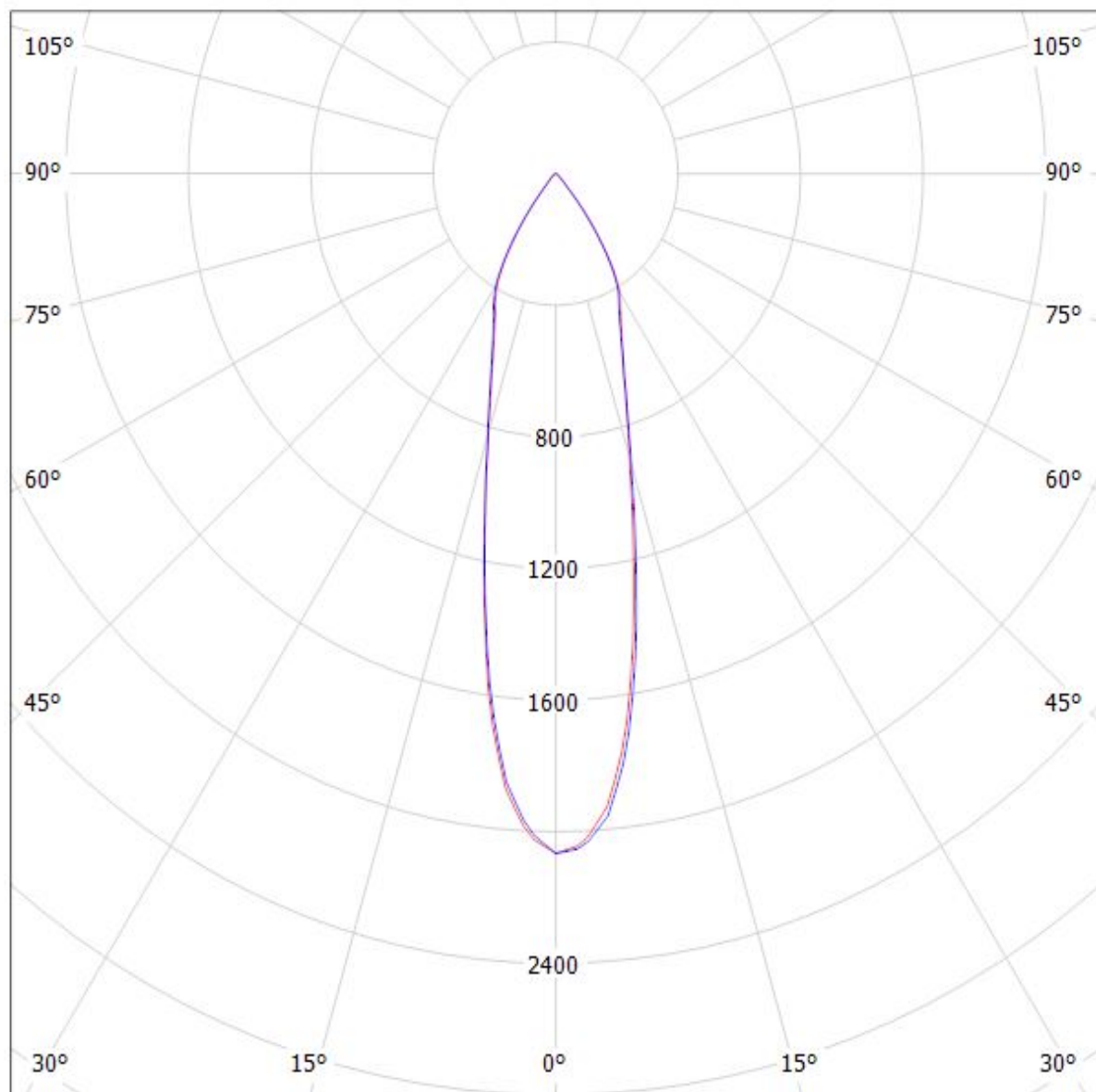
Ledil F13380_ANGELA-M_(CLU720) / LDC (Polar)

Luminaire: Ledil F13380_ANGELA-M_(CLU720)
Lamps: 1 x CITIZEN_CLU720_(CLU720-1206B8-273M2)
_1344.79lm@250mA_CCT=2700K_P=8.35W_I=0.25A



Luminaire: LEDiL Oy F13380_ANGELA-M_(CXA3590)

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



cd/klm

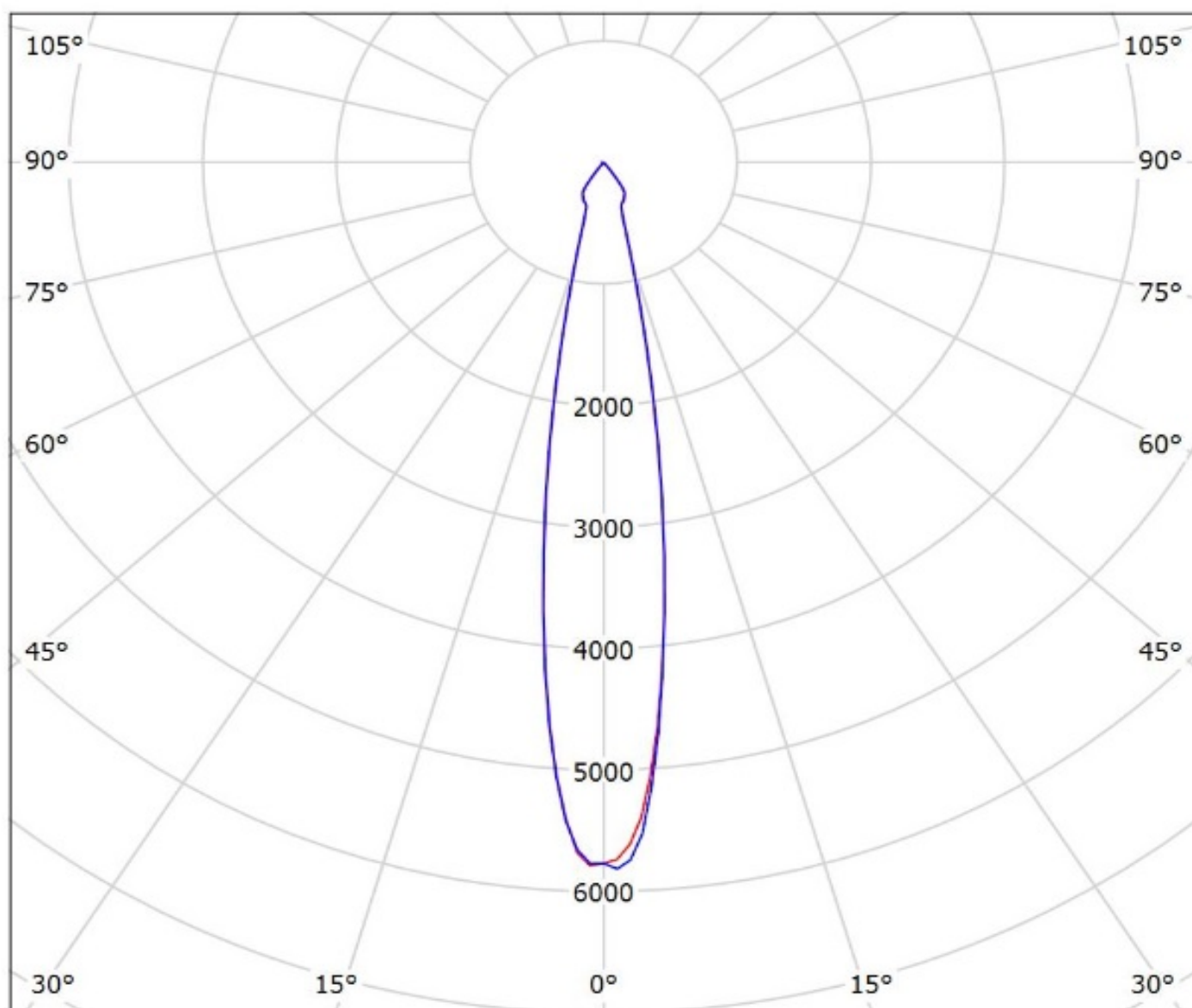
— C0 - C180

— C90 - C270

$\eta = 85\%$

Luminaire: Ledil Oy F13380_ANGELA-M_(CXB1830)_(Lumawise_Z50_STD_Profile_1818_2213401-2+Optic_Clip_2213194-1)_SIMULATED

Lamps: 1 x Cree CXB1830 + Tyco Electronics 2213401-2 + TE 2213194-1

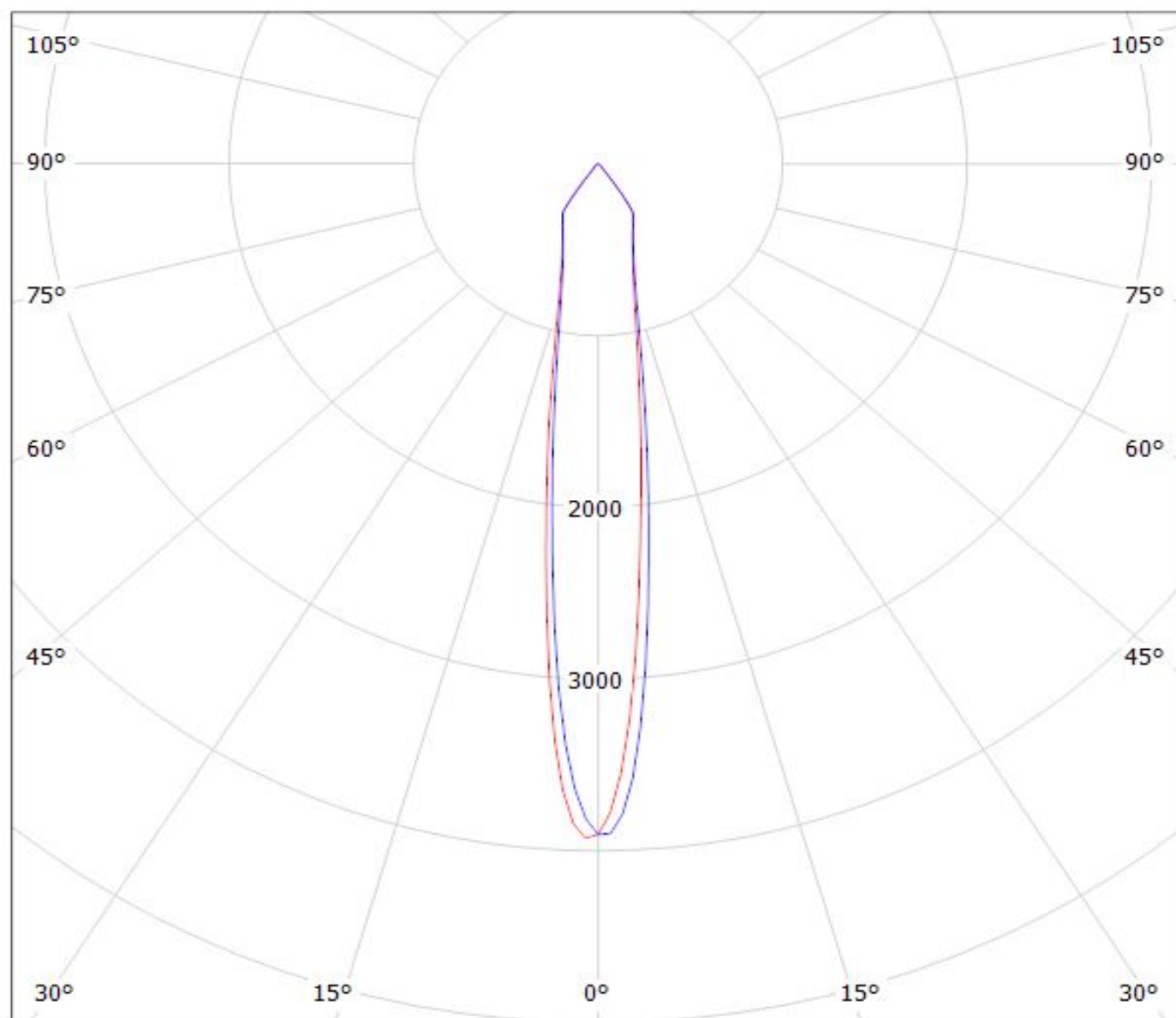


cd/klm

— C0 - C180 — C90 - C270

$\eta = 88\%$

Luminaire: LEDiL Oy F13380_ANGELA-M_(COB_1205) Eff.85.3%
Lamps: 1 x Luxeon_COB_1205_1092.75lm@250mA_P=8.33092W_I=249.9mA

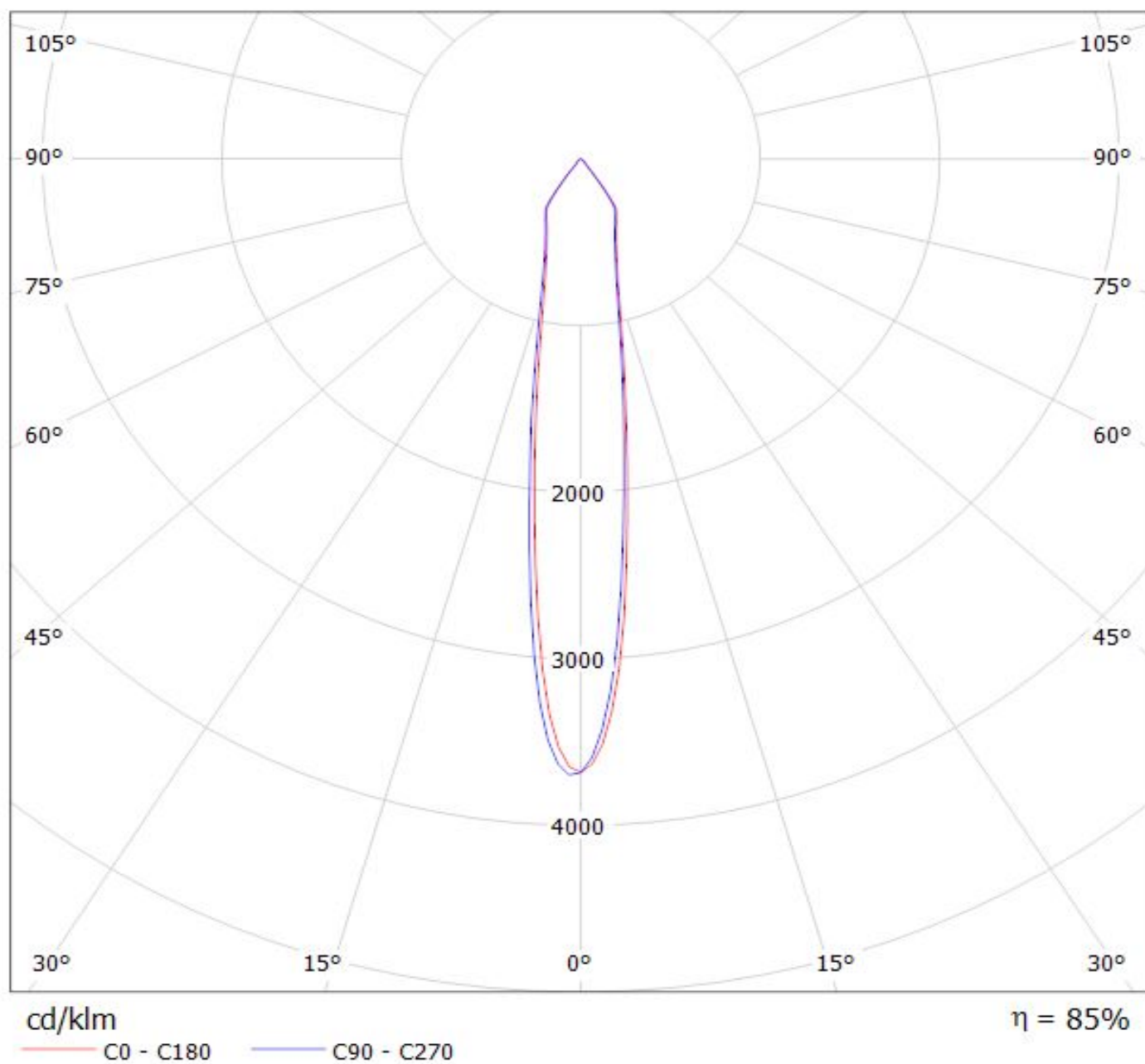


cd/klm

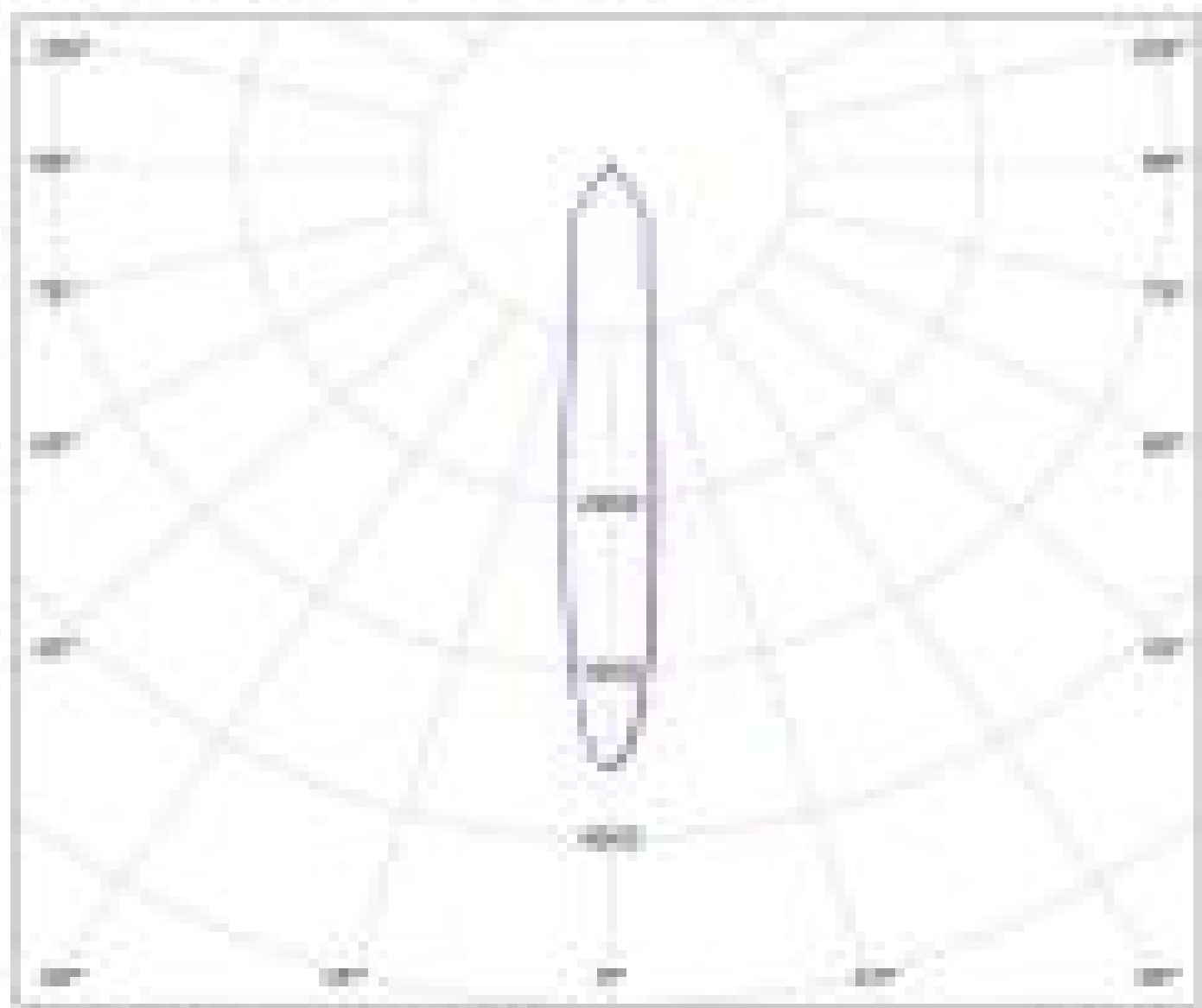
— C0 - C180 — C90 - C270

$\eta = 85\%$

Luminaire: LEDiL Oy F13380_ANGELA-M_(COB_1208) Eff.85.4%
Lamps: 1 x Luxeon_COB_1208_1039.97lm@250mA_P=8.28793W_I=249.9mA

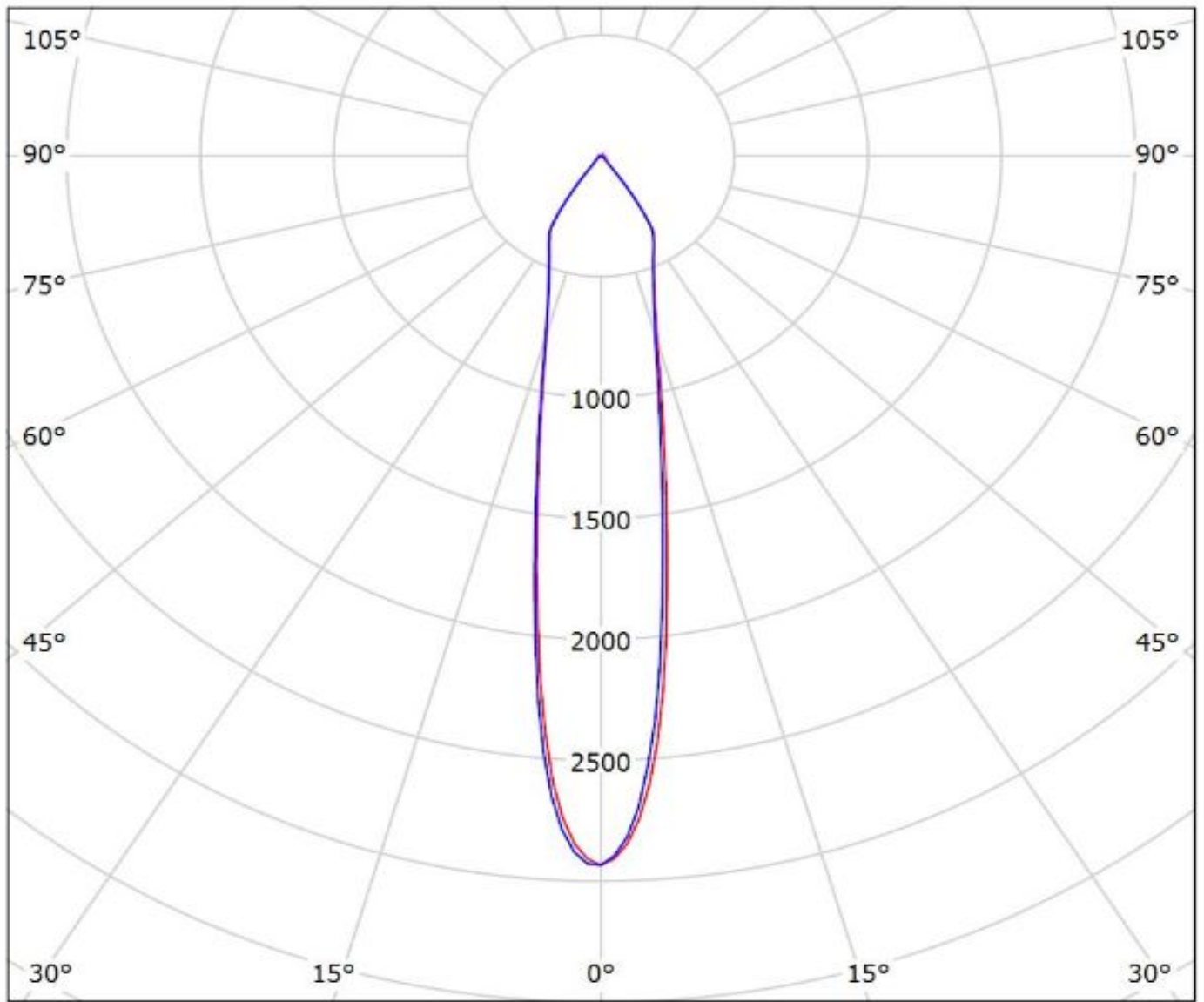


QUESTION: What is the main purpose of the diagram?
ANSWER: To illustrate the concept of a coordinate system.
QUESTION: How is the coordinate system defined?
ANSWER: It is defined by a set of axes, typically labeled x and y, and a set of grid lines.



QUESTION: What is the area of the shaded region?
ANSWER: The area of the shaded region is approximately 1.5 square units.

Luminaire: Ledil F13380_ANGELA-M_(CoB1211+IDEAL)
Lamps: 1 x Luxeon_CoB1211_(L2C2-4080)_50-2204CT+50-2100AN_1376.18lm@250mA_P=7.9988W_I=0.25A

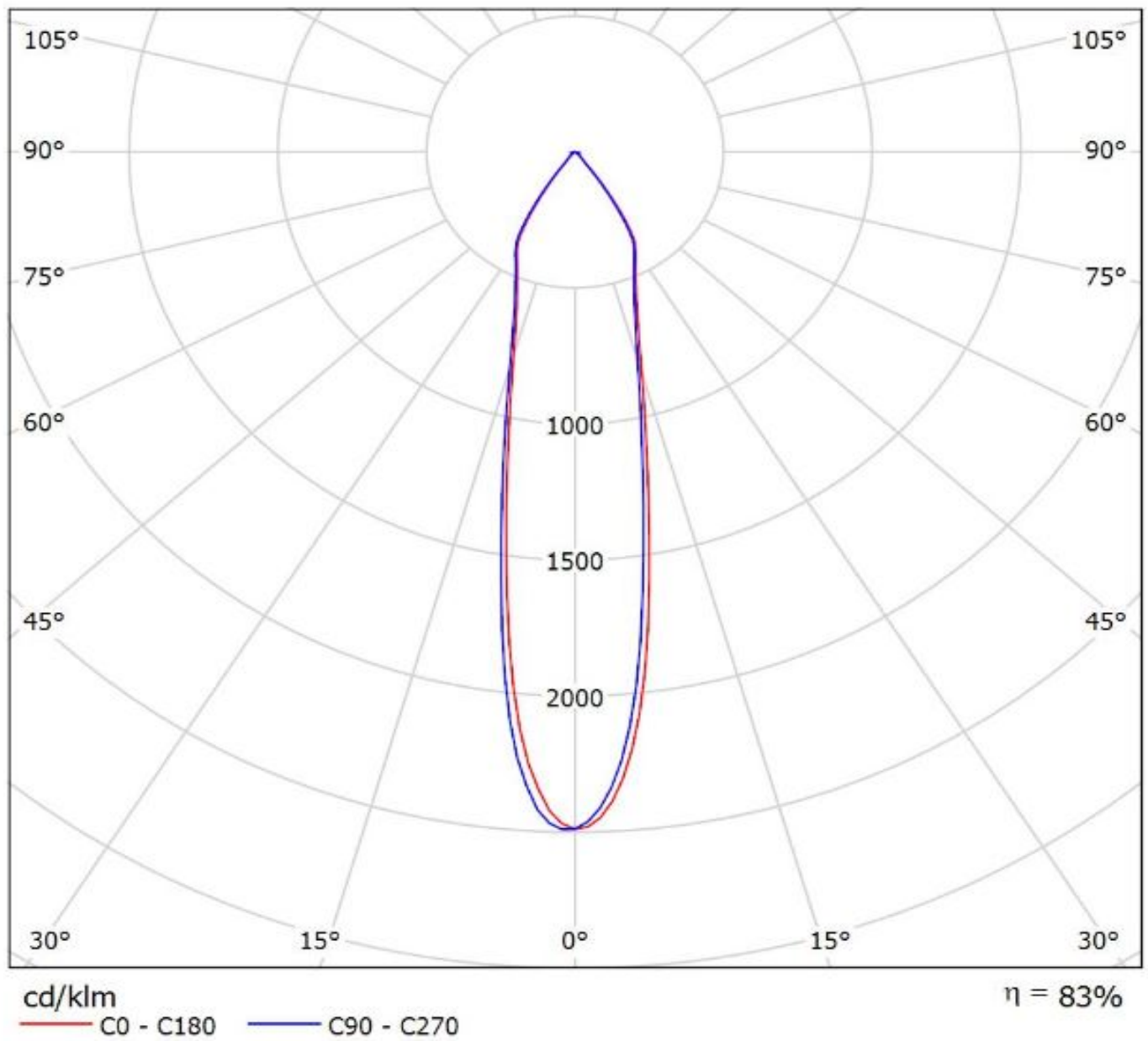


cd/klm

— C0 - C180 — C90 - C270

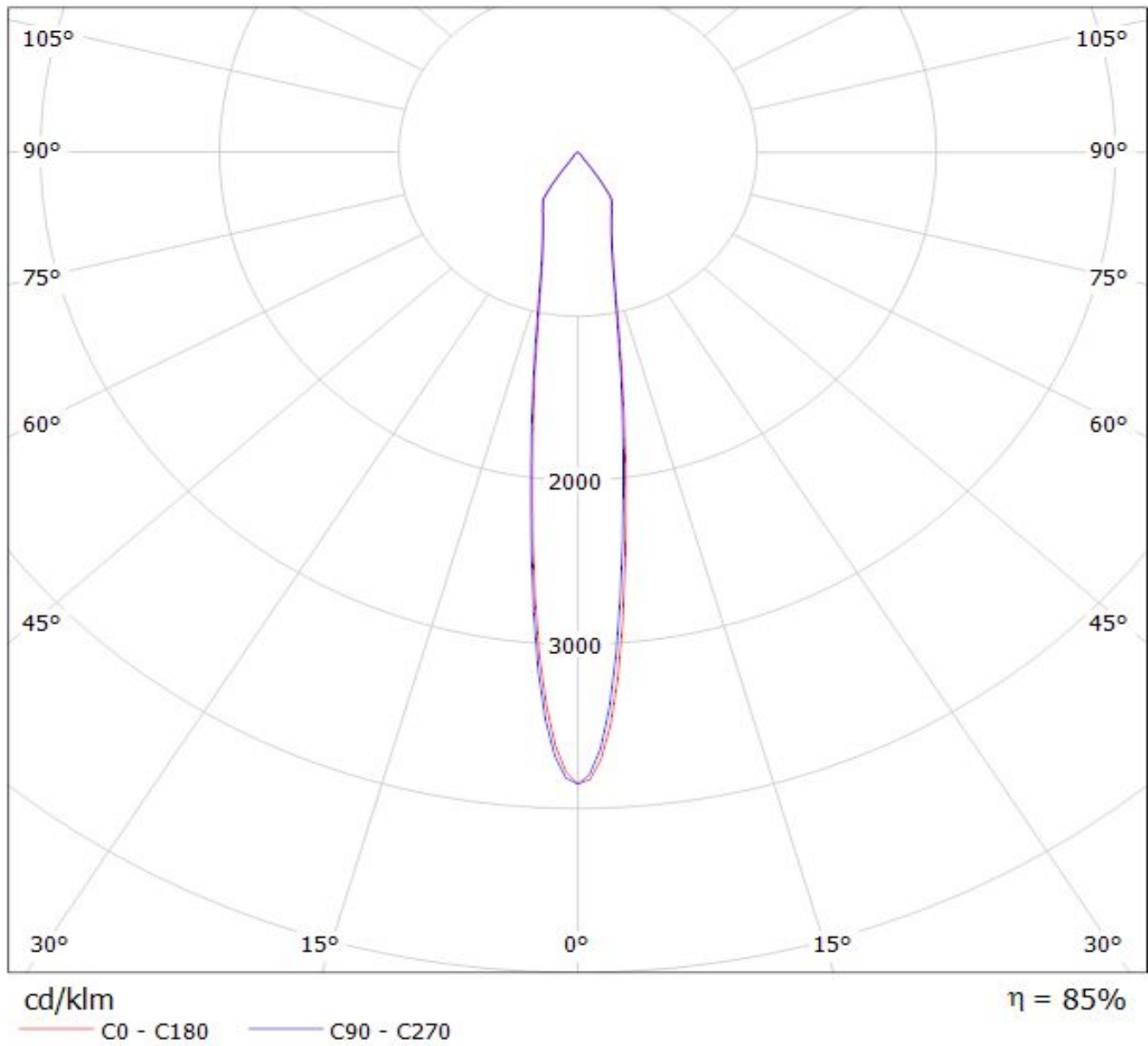
$\eta = 83\%$

Luminaire: Ledil F13380_ANGELA-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

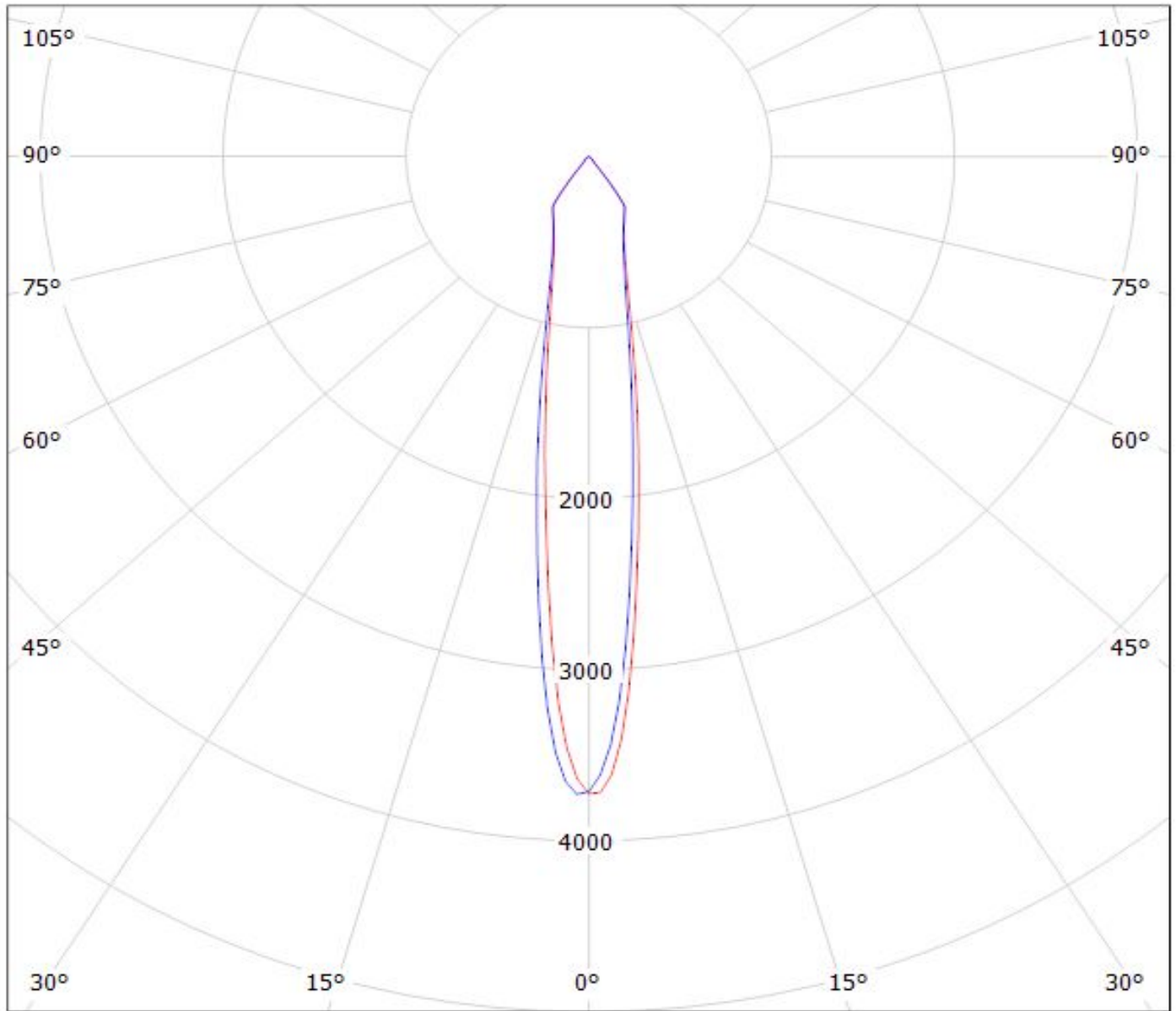


Luminaire: LEDiL Oy F13380_ANGELA-M_(CXM-14)

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



Luminaire: LEDiL Oy F13380_ANGELA-M_(NSBxL121A) Eff.86.4%
Lamps: 1 x Nichia_NSBxL121A_920.44lm@250mA_P=7.57797W_I=249.9mA



cd/klm

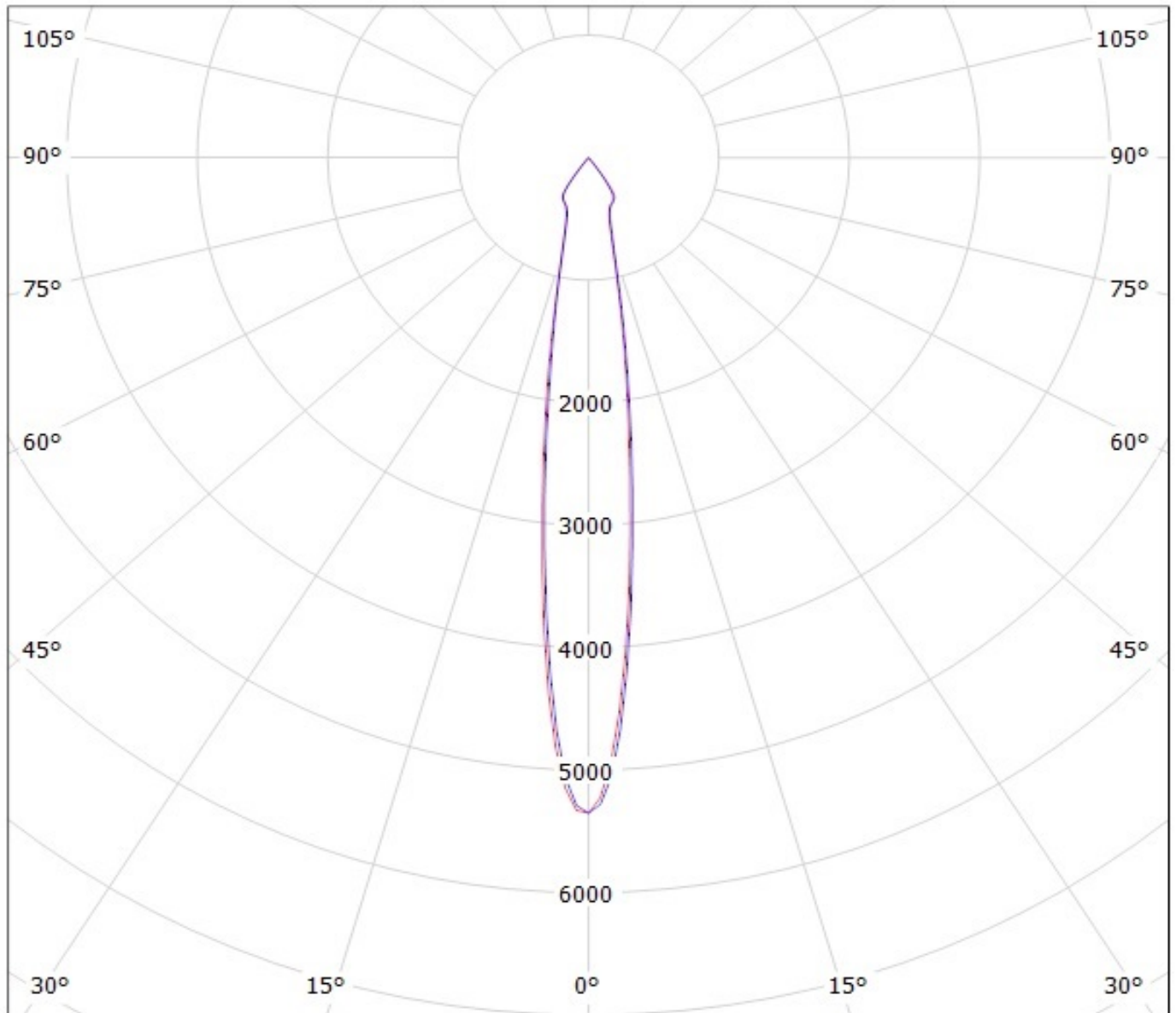
— C0 - C180

— C90 - C270

$\eta = 86\%$

Luminaire: LEDil Oy F13380_ANGELA-M_(NFCxL060B)

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



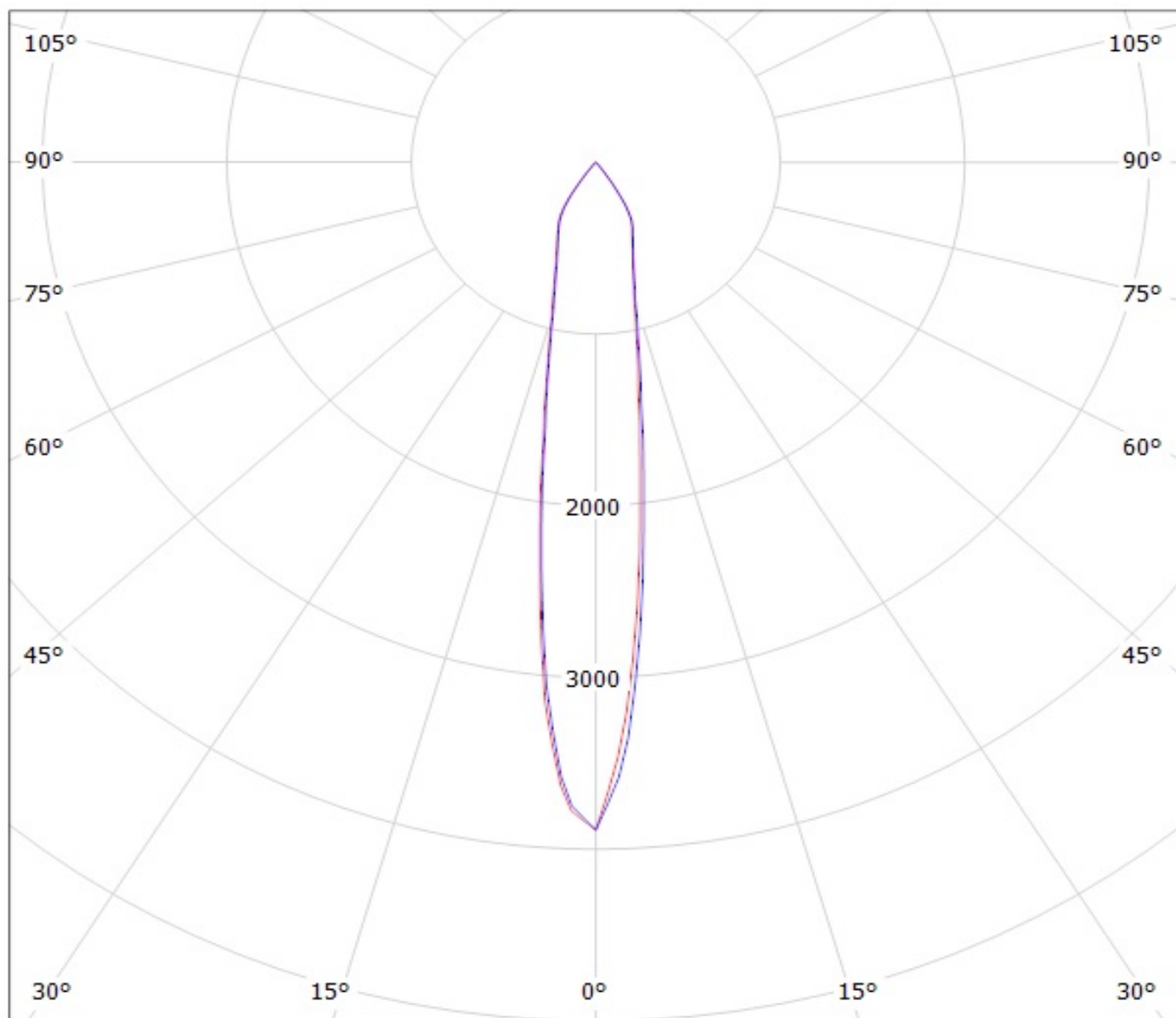
cd/klm

— C0 - C180

— C90 - C270

Luminaire: LEDil Oy F13380_ANGELA-M_(NFDxJ130B)

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

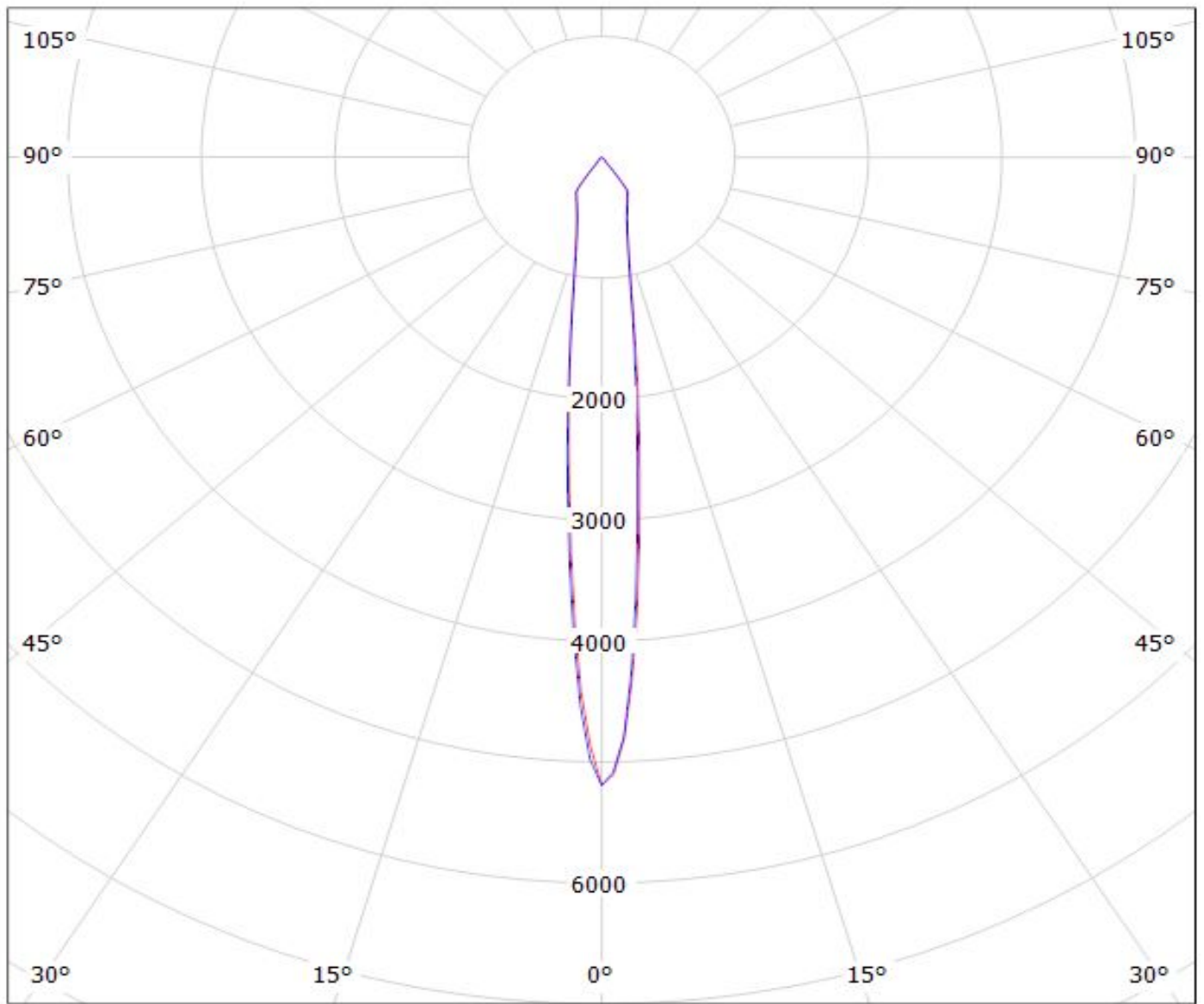


cd/klm

— C0 - C180

— C90 - C270

Luminaire: LEDiL Oy F13380_ANGELA-M_(PrevaLED_LES9)
Lamps: 1 x Osram_PrevaLED_Core_Z3_LES9_(PL-CORE-1100-830-Z3)
_1132.95lm@250mA_P=12.1952W_I=249.8mA



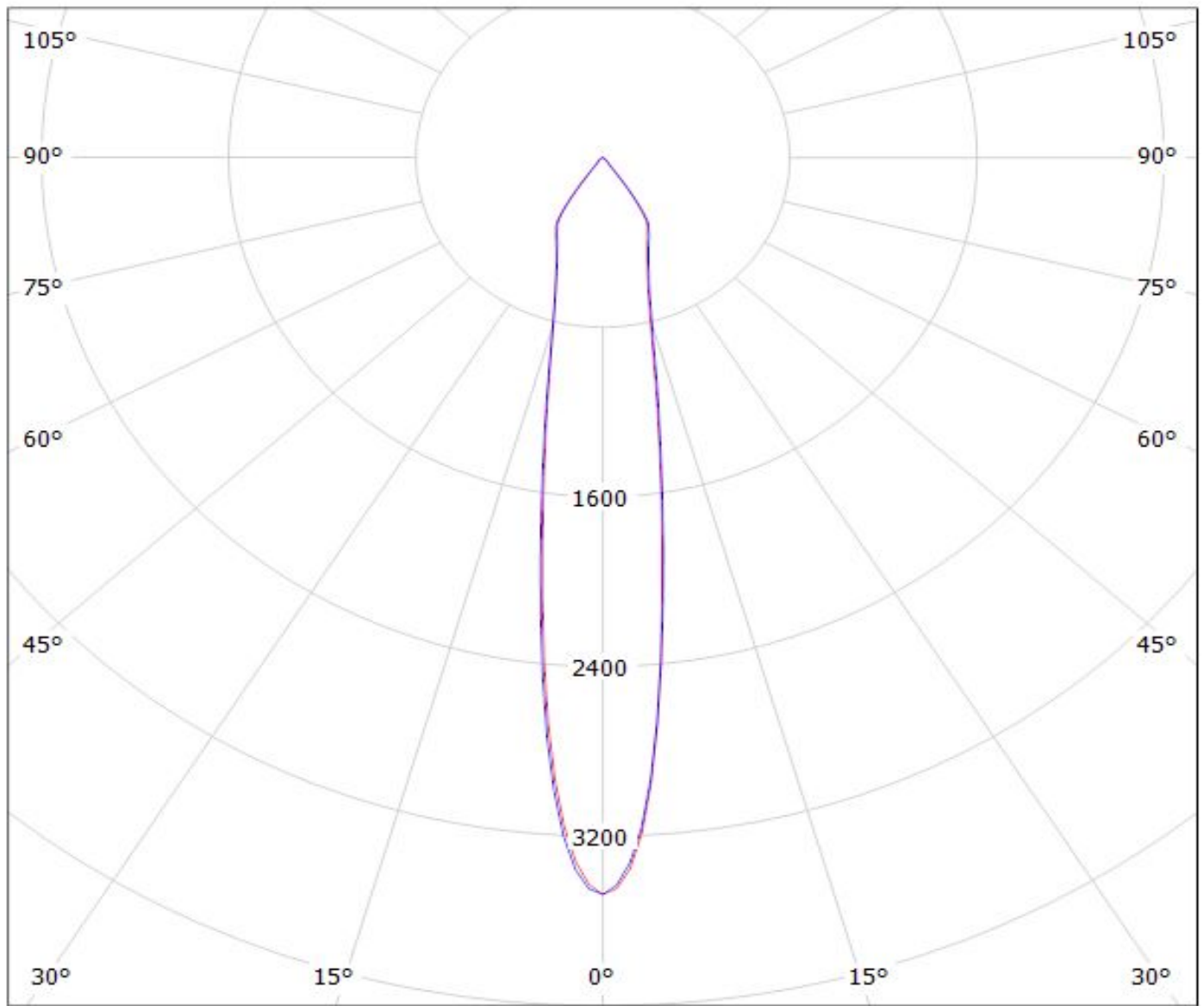
cd/klm

— C0 - C180

— C90 - C270

$\eta = 85\%$

Luminaire: LEDiL Oy F13380_ANGELA-M_(PrevaLED_LES19)
Lamps: 1 x Osram_PrevaLED_CORE_Z3_LES19_(PL-CORE-2000-830-Z3)
_1356.73lm@250mA_P=10.5228W_I=249.9mA

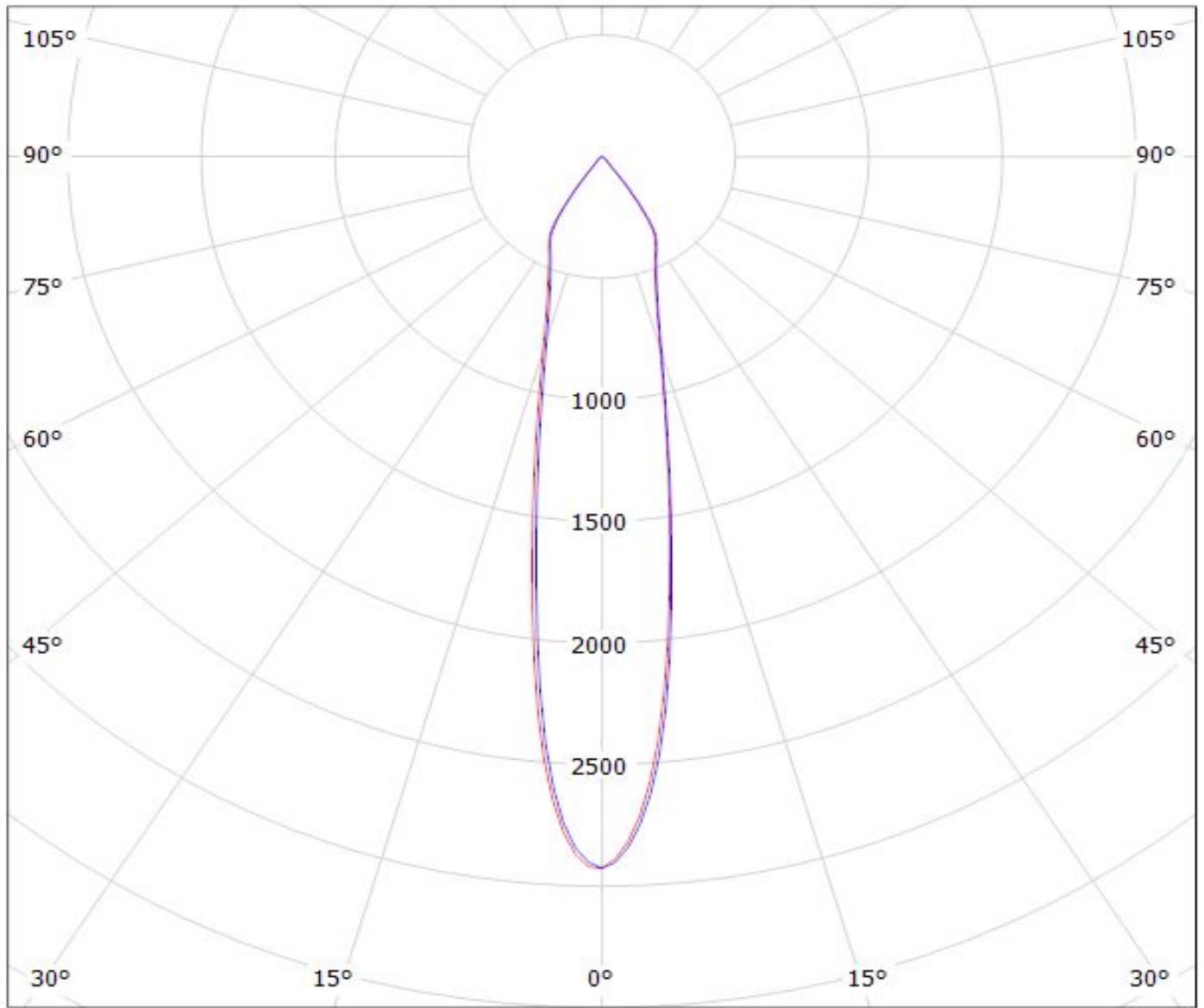


cd/klm

— C0 - C180 — C90 - C270

$\eta = 85\%$

Luminaire: LEDiL Oy F13380_ANGELA-M_(PrevaLED_LES23)
Lamps: 1 x Osram_PrevaLED_Core_Z3_LES23_(PL-CORE-5000-930-Z3)
_1130.05lm@250mA_P=10.0097W_I=249.9mA



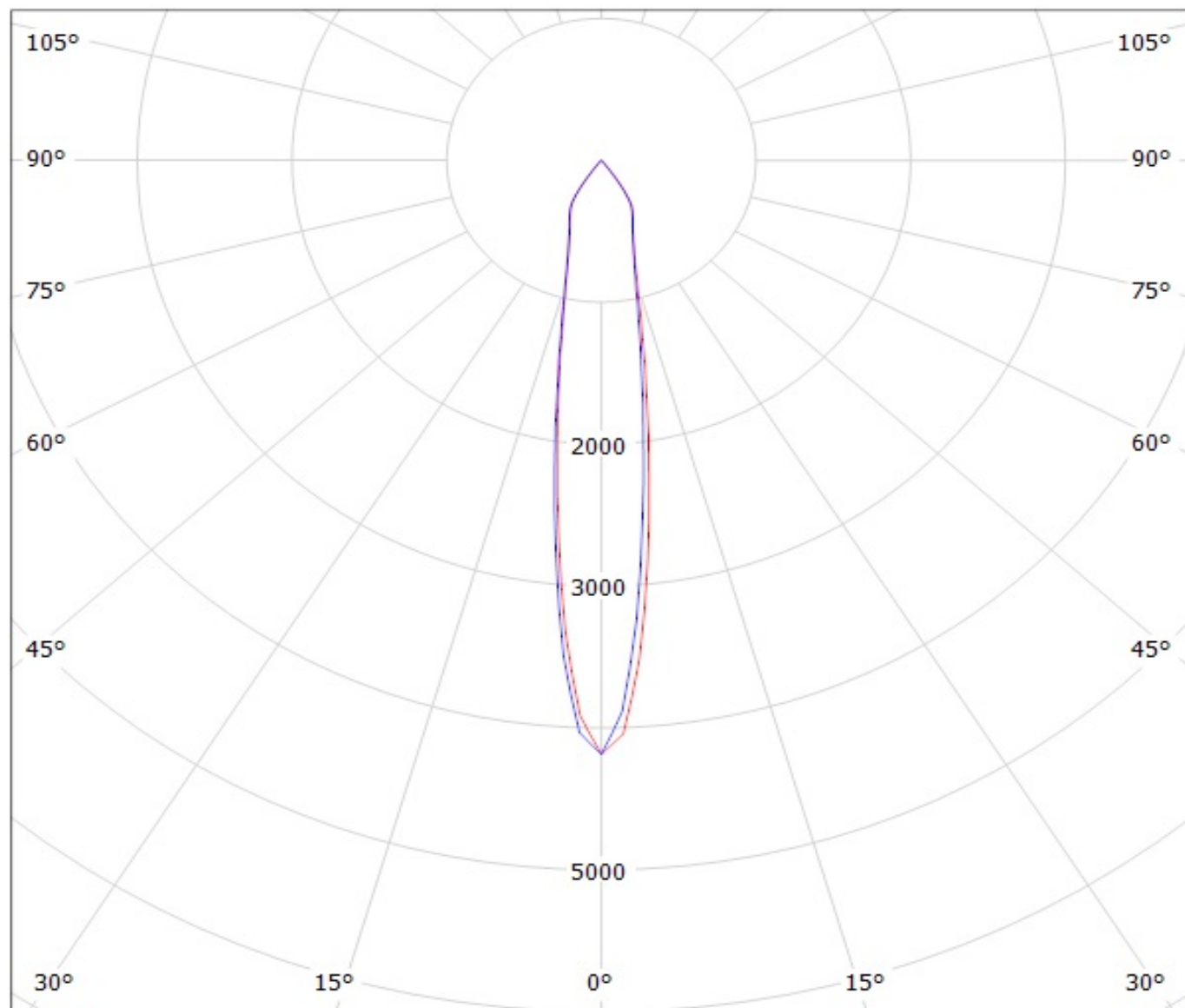
cd/klm

— C0 - C180 — C90 - C270

$\eta = 85\%$

Luminaire: LEDil Oy F13380_ANGELA-M_(Soleriq_S13) Efficiency=86%

Lamps: 1 x Osram Soleriq S13 (GW KAGHB1.EM) 855lm @ 250mA CCT=3100K P=7.4W I=250mA



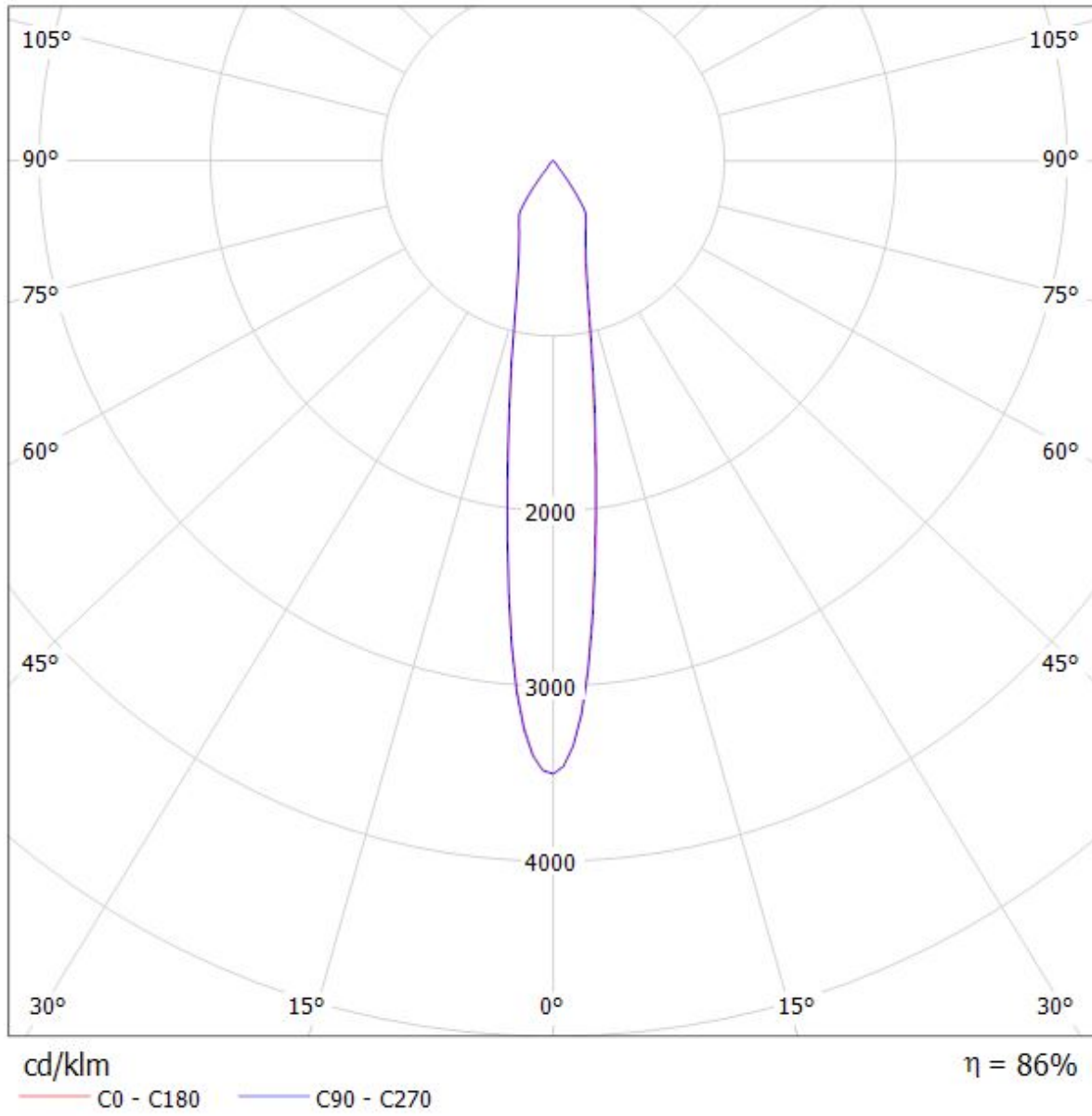
cd/klm

— C0 - C180

— C90 - C270

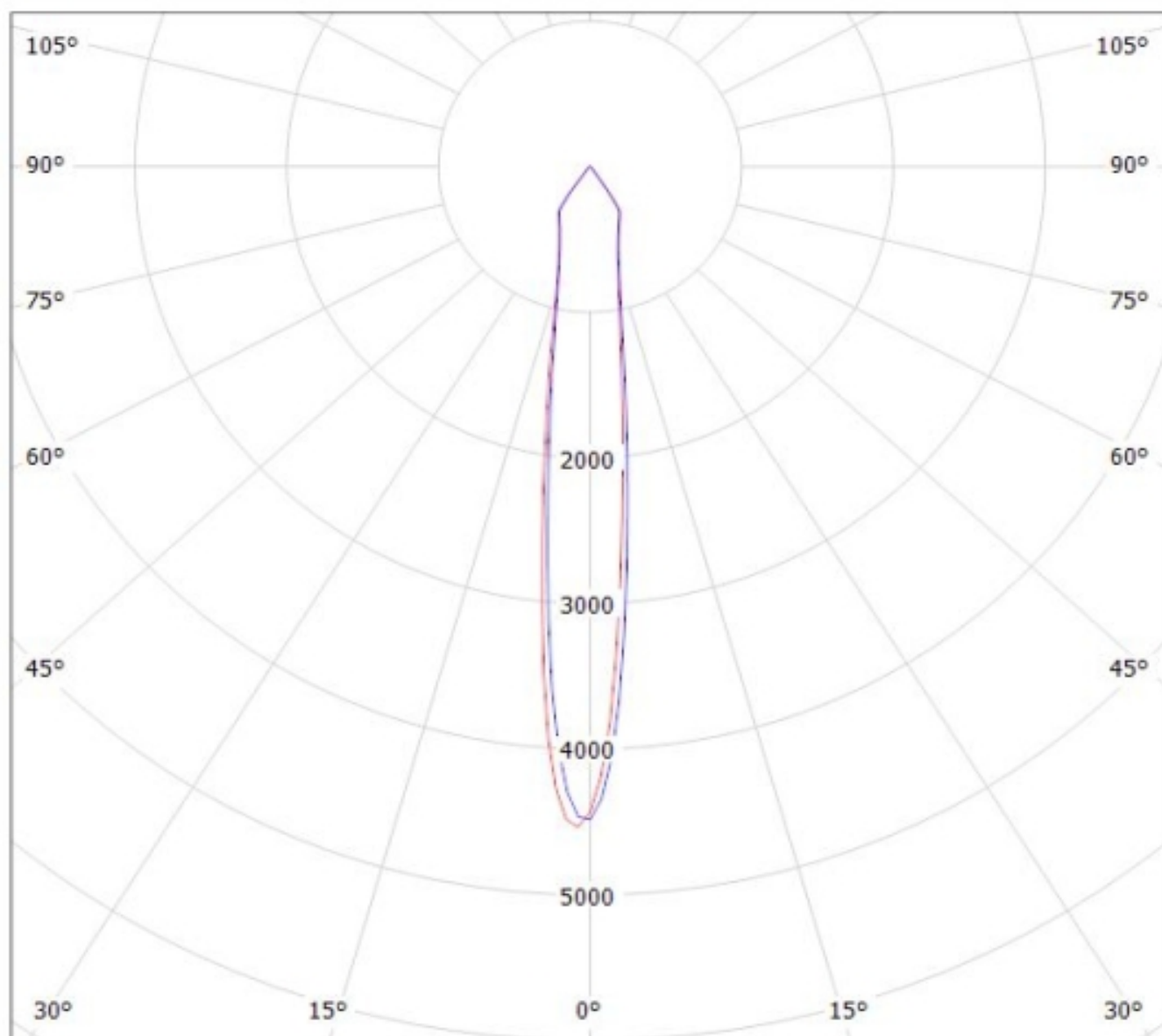
Luminaire: LEDiL Oy F13380_ANGELA-M_(SOLERIQ_S19_&_TE_2213407-2)

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



Luminaire: LEDiL Oy F13380_ANGELA-M_(LEP-800-827-C-AC)

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

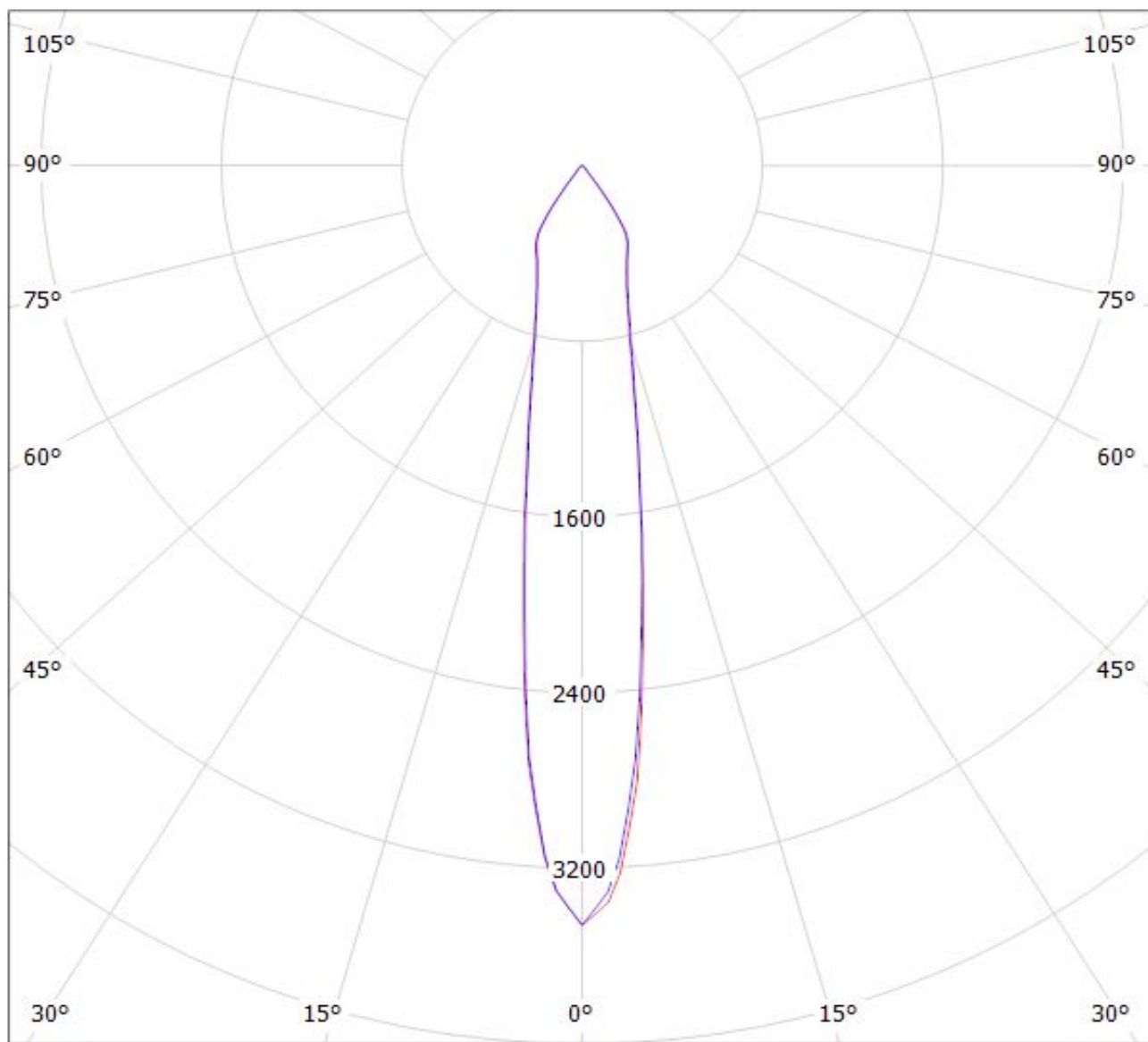


cd/klm

$\eta = 86\%$

— C0 - C180 — C90 - C270

Luminaire: LEDiL Oy F13380_ANGELA-M_(LEP-2000-827-C-AC)
Lamps: 1 x OSRAM PrevaLED Core AC (LEP-2000-827-C-AC)



cd/klm

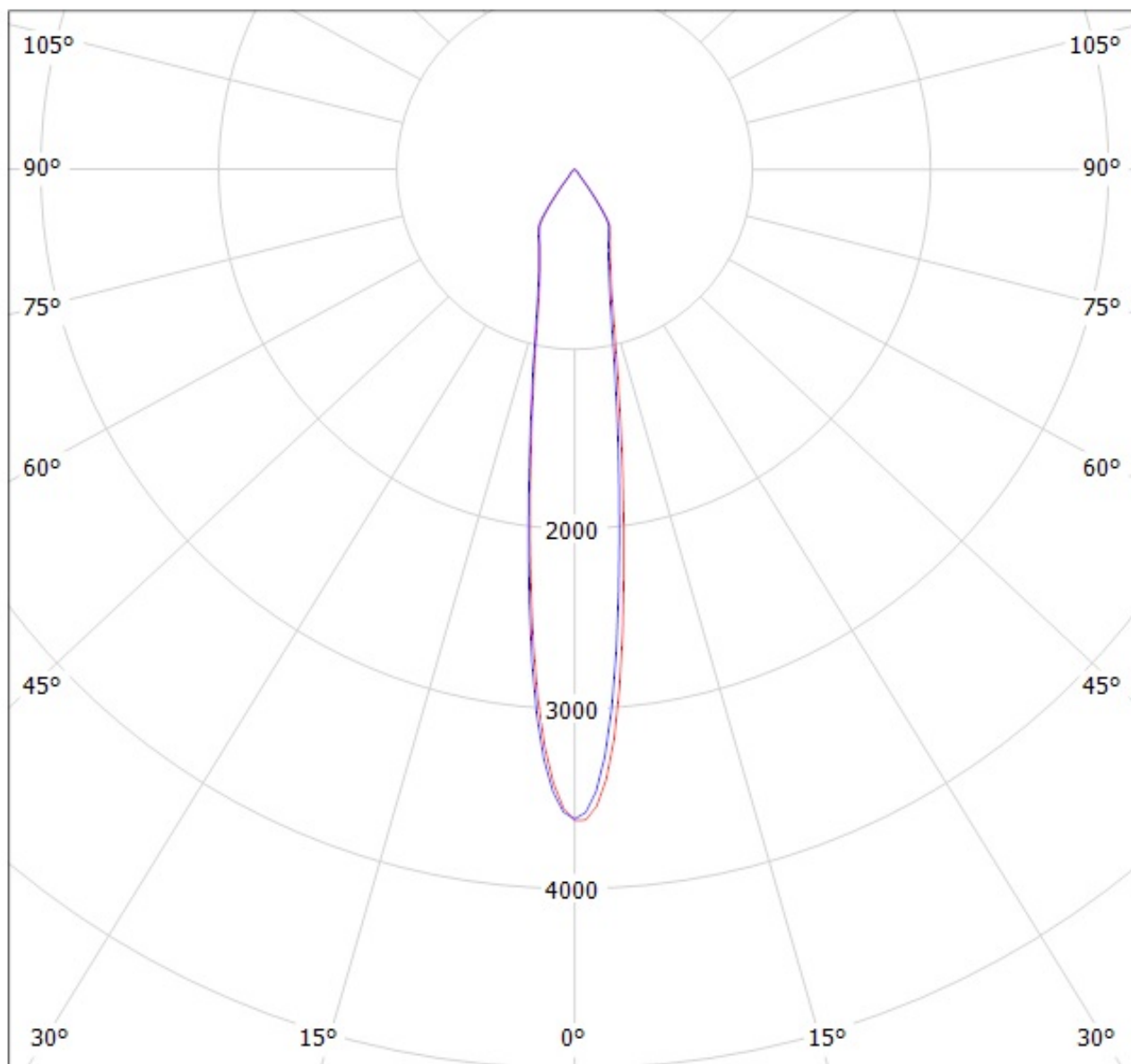
— C0 - C180

— C90 - C270

$\eta = 85\%$

Luminaire: LEDiL Oy F13380_ANGELA-M_(PrevaLED_Z4) Eff:85%

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



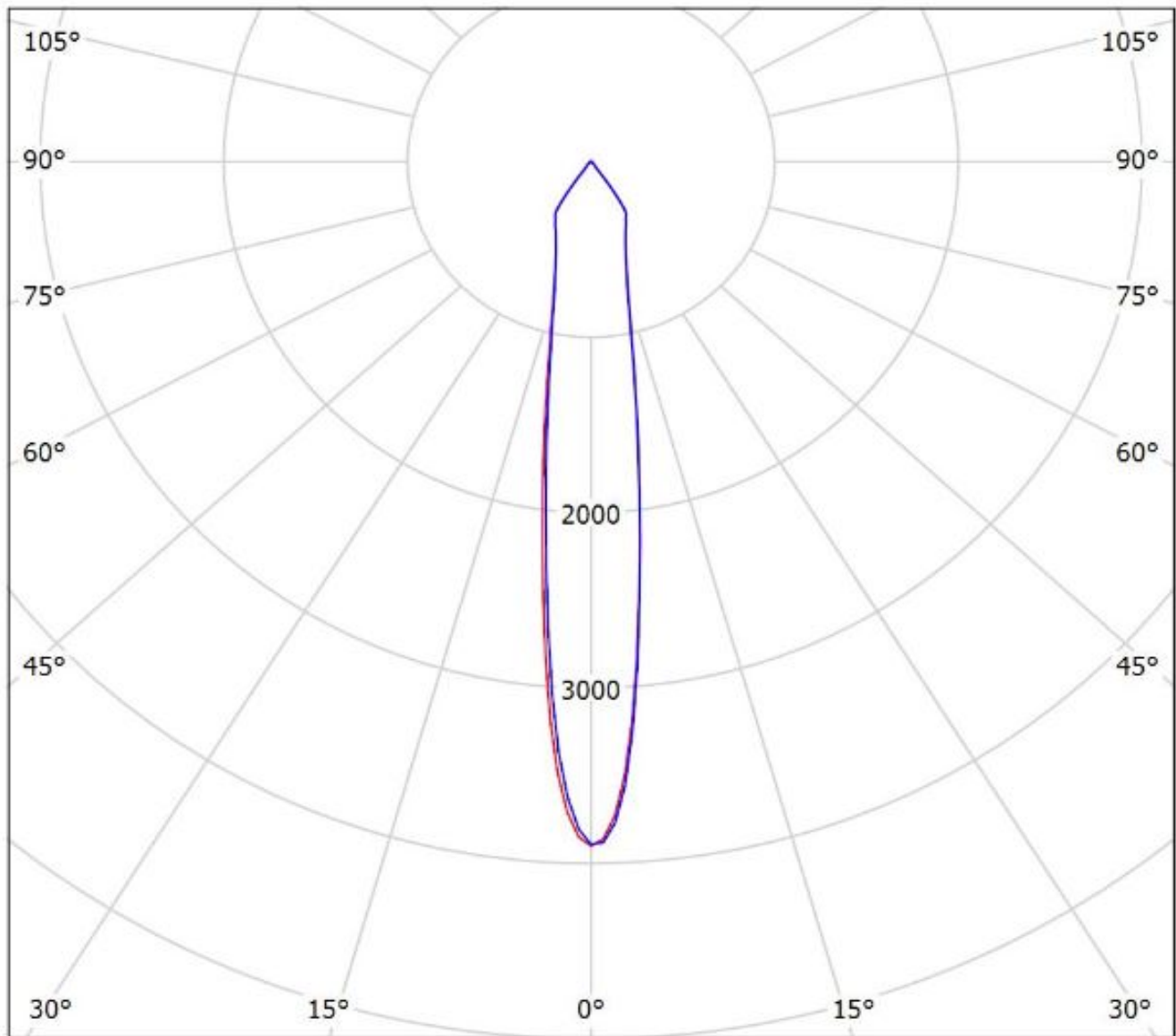
cd/klm

$\eta = 85\%$

— C0 - C180 — C90 - C270

Luminaire: LEDiL Oy F13380_ANGELA-M_(SOLERIQ_P13)

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



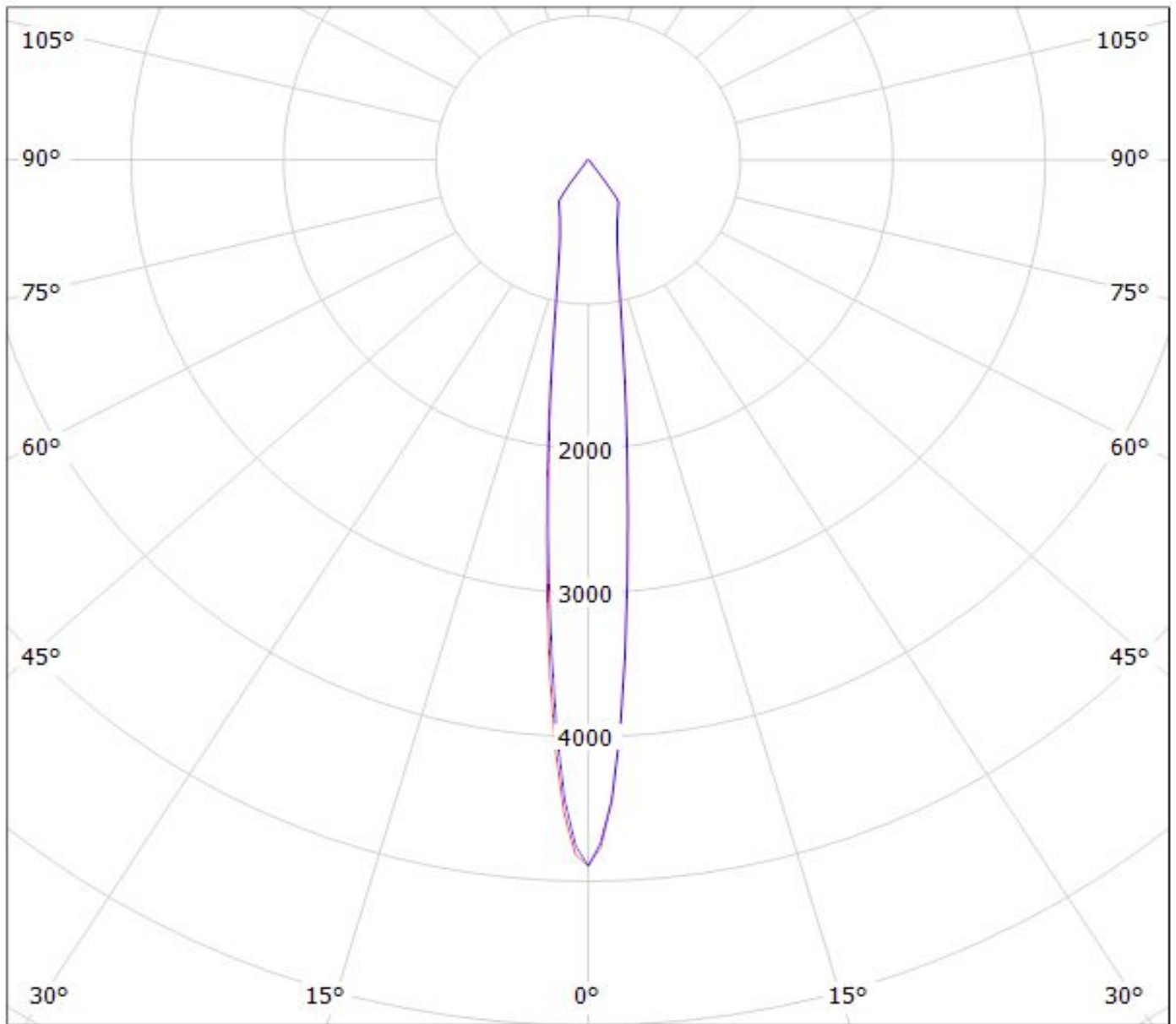
cd/klm

— C0 - C180

— C90 - C270

$\eta = 85\%$

Luminaire: LEDiL Oy F13380_ANGELA-M_(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



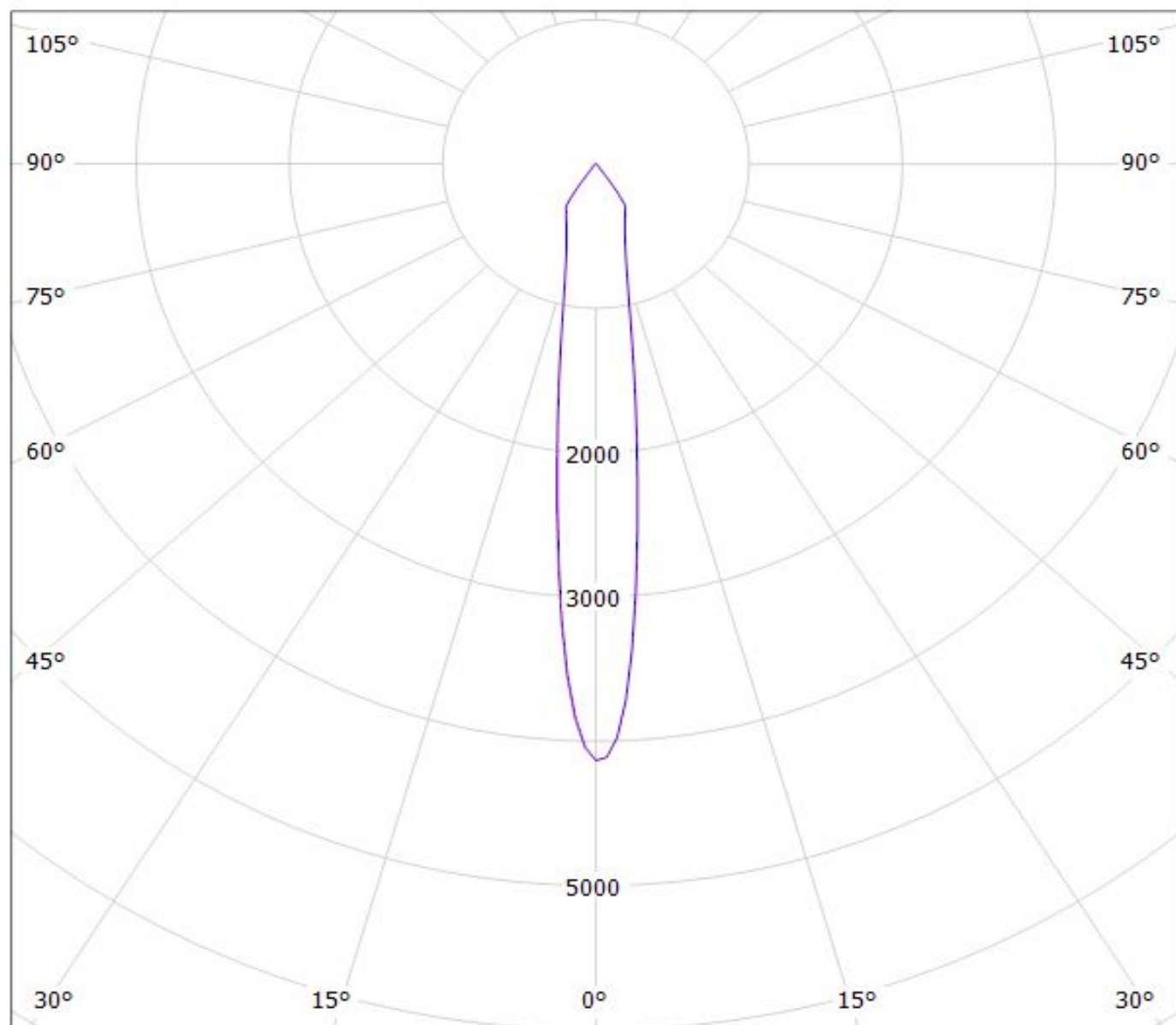
cd/klm

— C0 - C180 — C90 - C270

$\eta = 85\%$

Luminaire: LEDiL Oy F13380_ANGELA-M_(Fortimo LED SLM L13 G4)

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



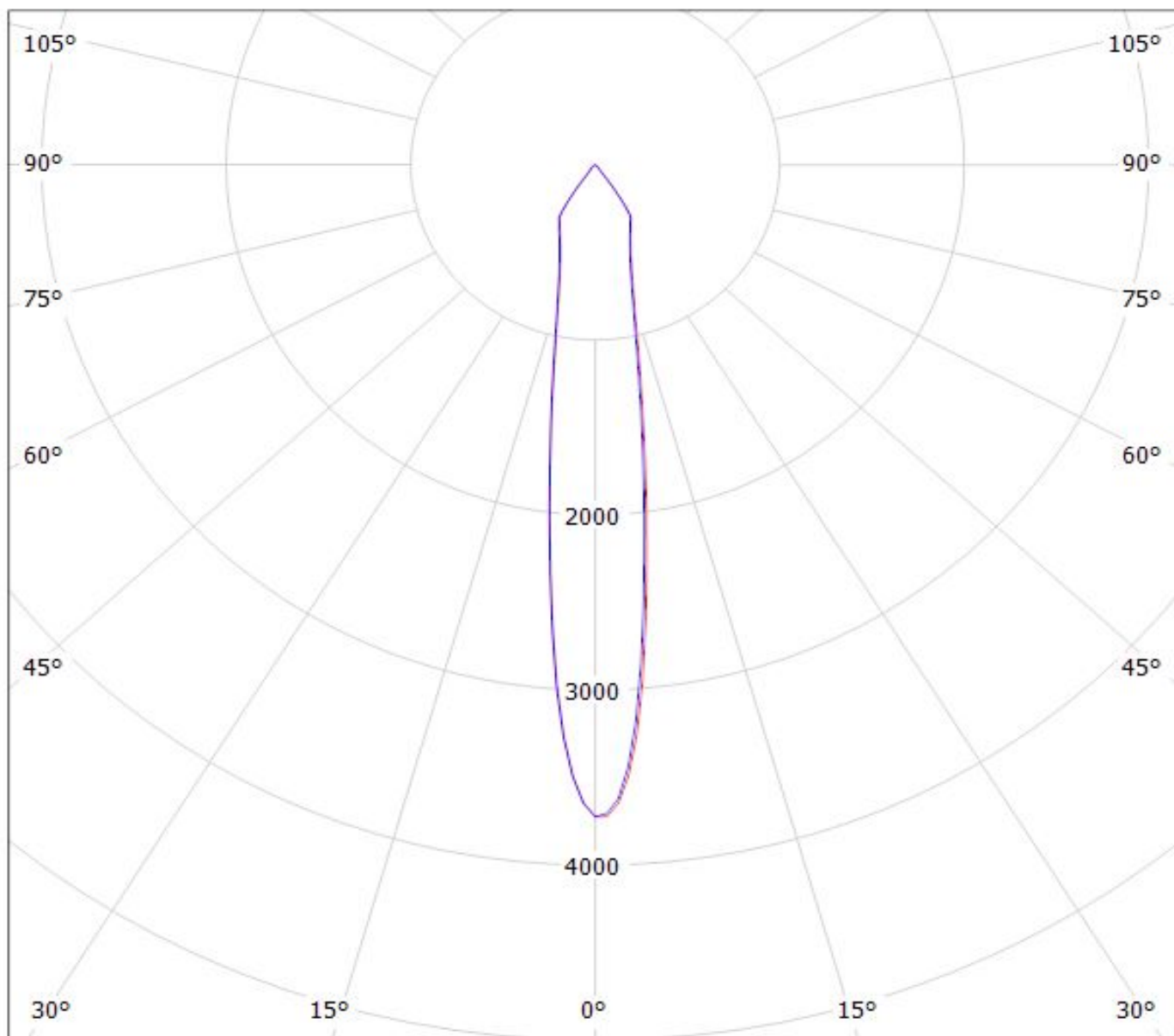
cd/klm

$\eta = 85\%$

— C0 - C180 — C90 - C270

Luminaire: LEDiL Oy F13380_ANGELA-M_(Fortimo LED SLM L15 G4)

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



cd/klm

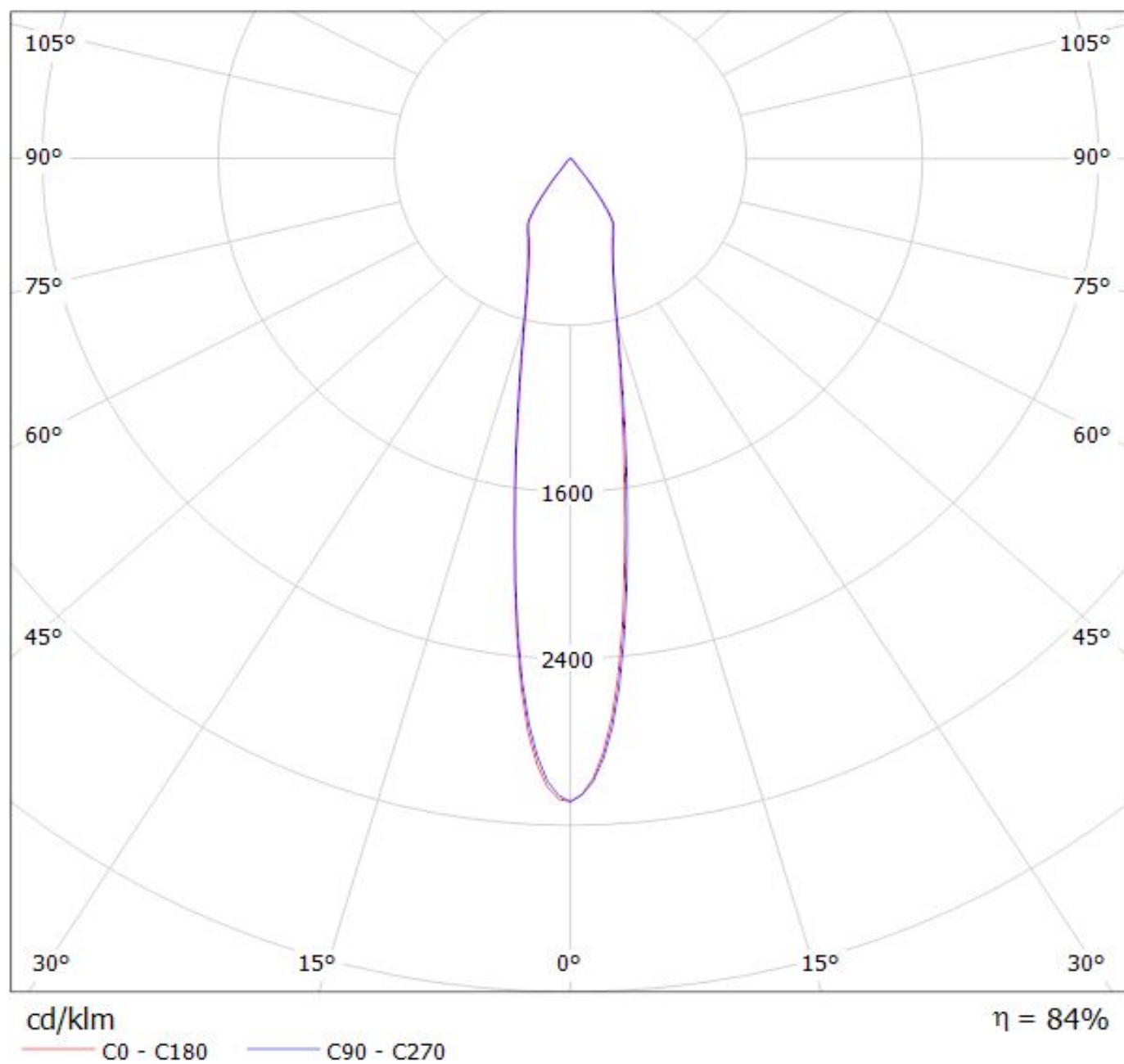
— C0 - C180

— C90 - C270

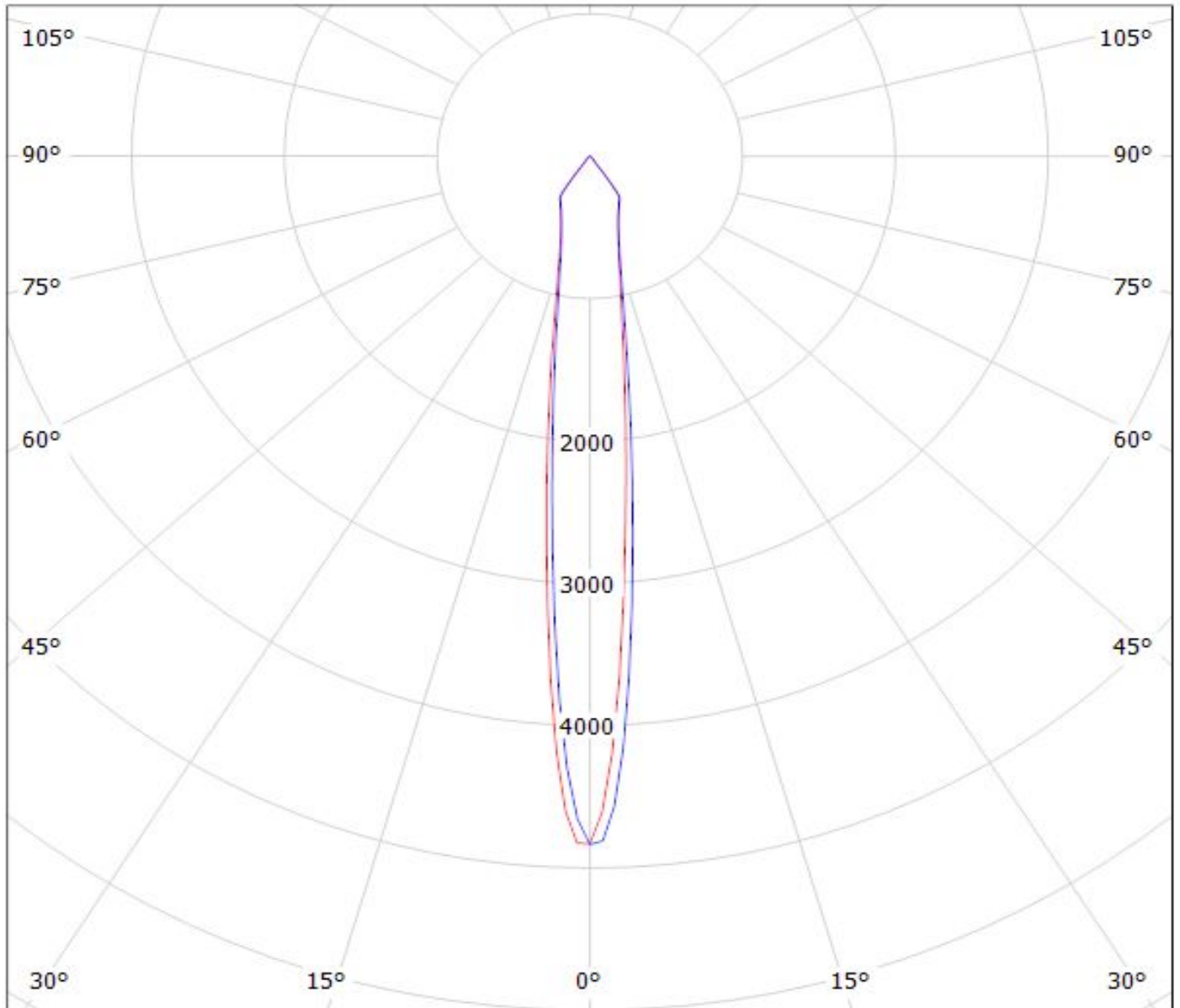
$\eta = 85\%$

Luminaire: LEDiL Oy F13380_ANGELA-M_(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 F13380_ANGELA-M_(SLM-G5-LES-9)_ (Z50-Optic-Clip)
Lamps: 1 x Fortimo_SLM-G5-LES-9_1182.49lm@250mA_P=8.5848W_I=0.250A



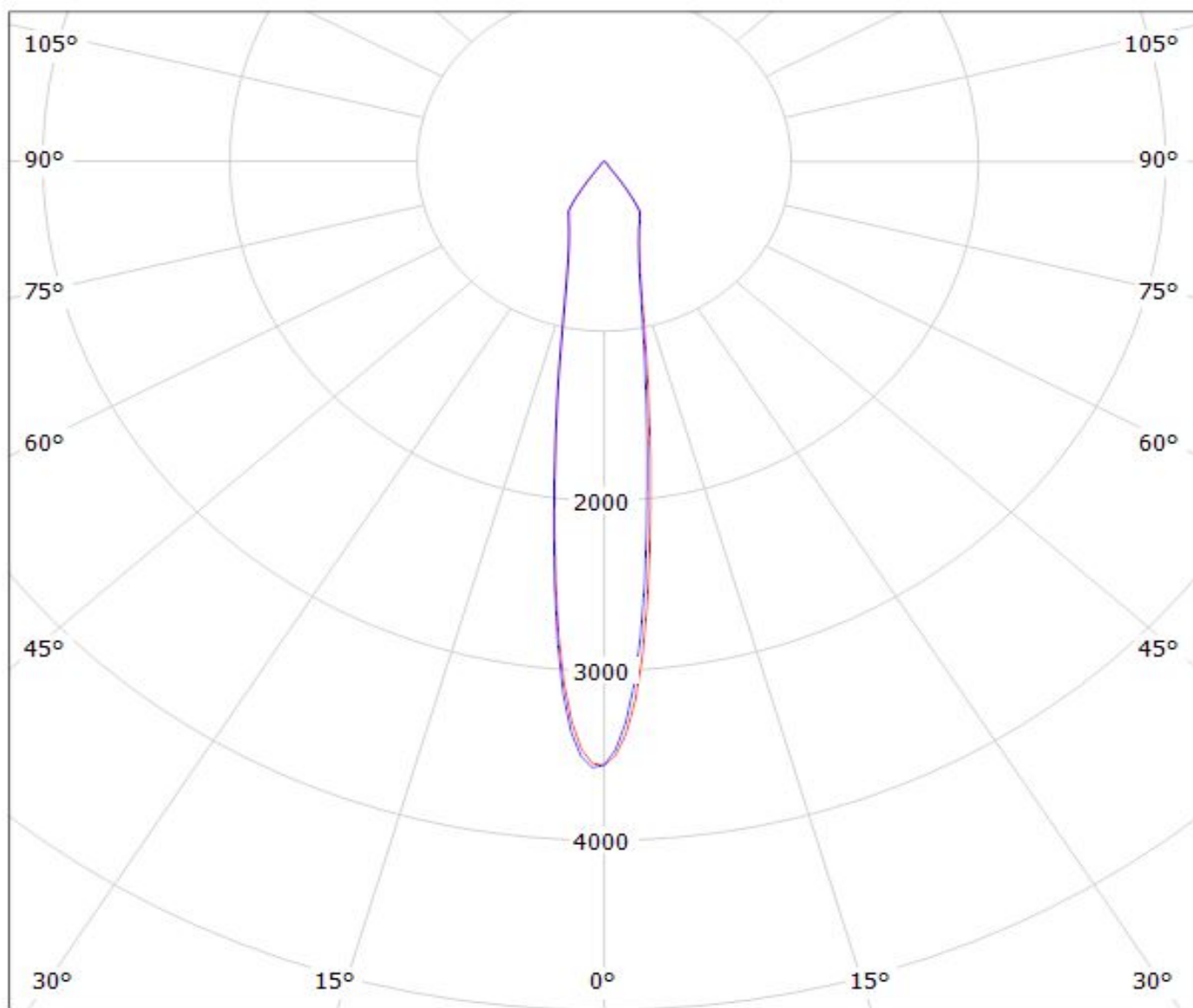
cd/klm

— C0 - C180 — C90 - C270

$\eta = 84\%$

Luminaire: LEDiL Oy F13380_ANGELA-M_(SLM-G5_LES-15)

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



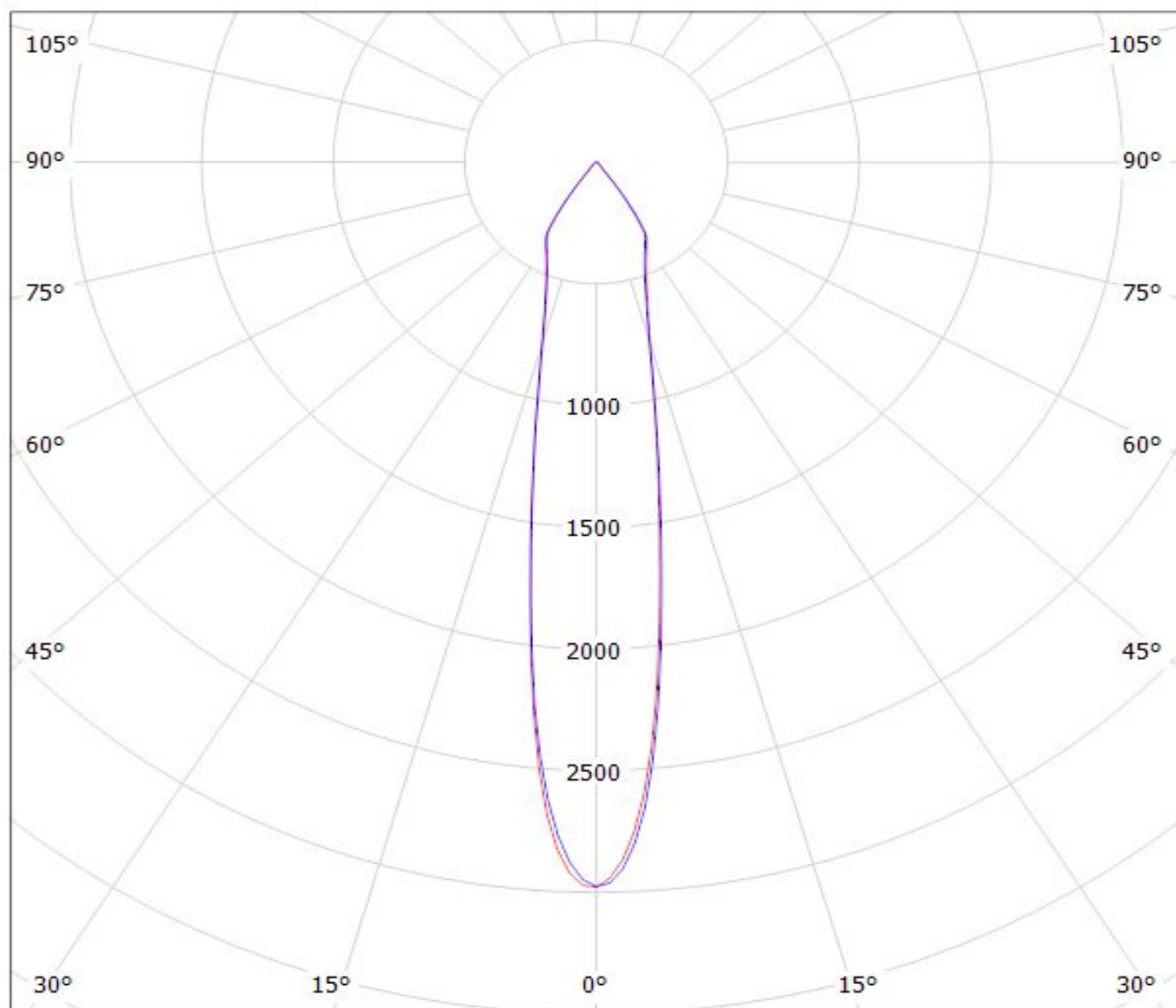
cd/klm

— C0 - C180

— C90 - C270

$\eta = 82\%$

Luminaire: LEDiL Oy F13380_ANGELA-M_(SLM-G5_LES-19)_Z50_Optic_Clip
Lamps: 1 x Fortimo_SLM-G5_LES-19_1397.58lm@250mA_P=8.0385W_I=0.250A



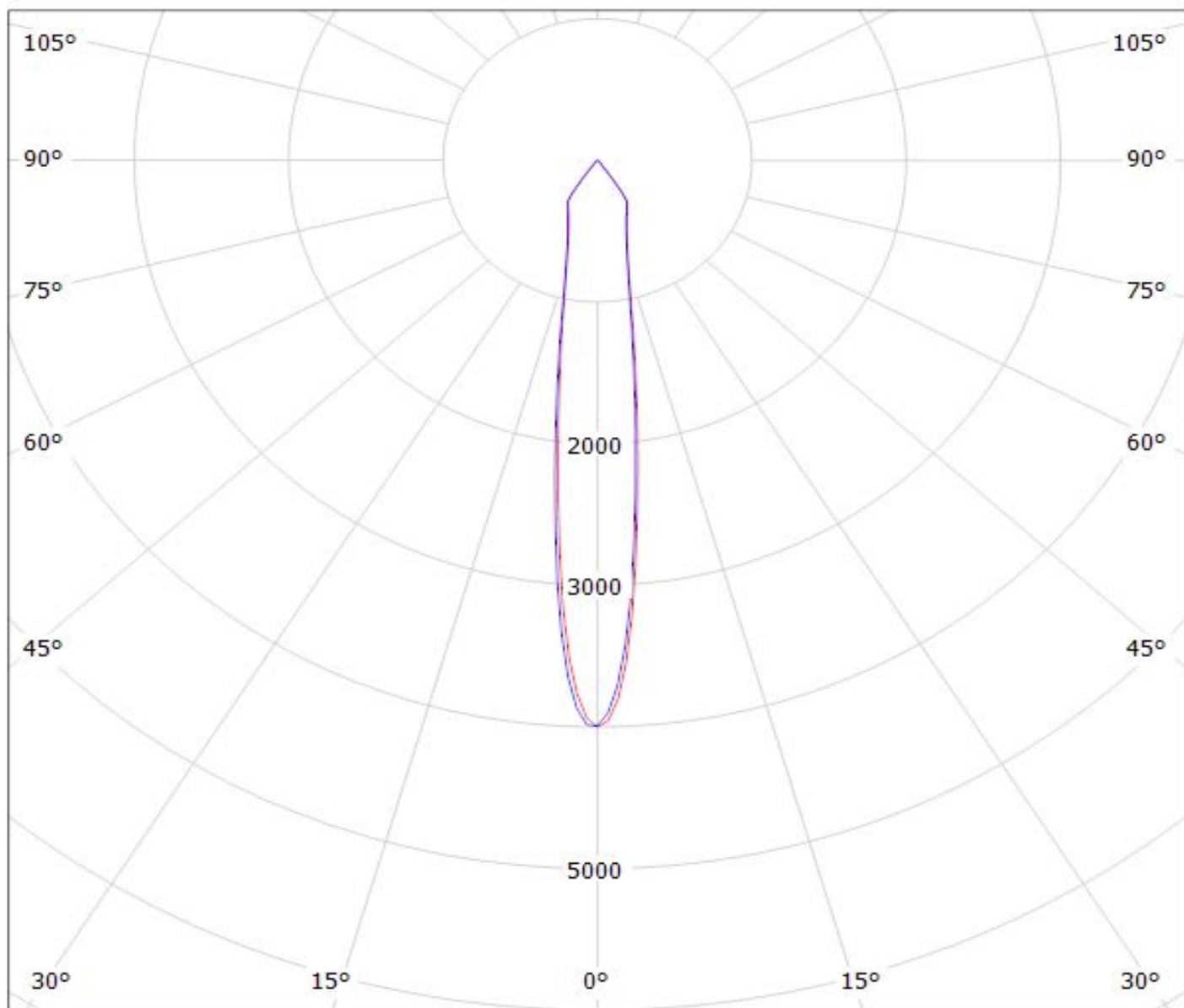
cd/klm

— C0 - C180

— C90 - C270

$\eta = 81\%$

Luminaire: LEDiL Oy F13380_ANGELA-M_(SLM-G5_LES-13)_ (Z50-Optic-Clip)
Lamps: 1 x Fortimo_SLM-G5_LES-13_1300.47lm@250mA_P=8.4010W_I=0.250A



cd/klm

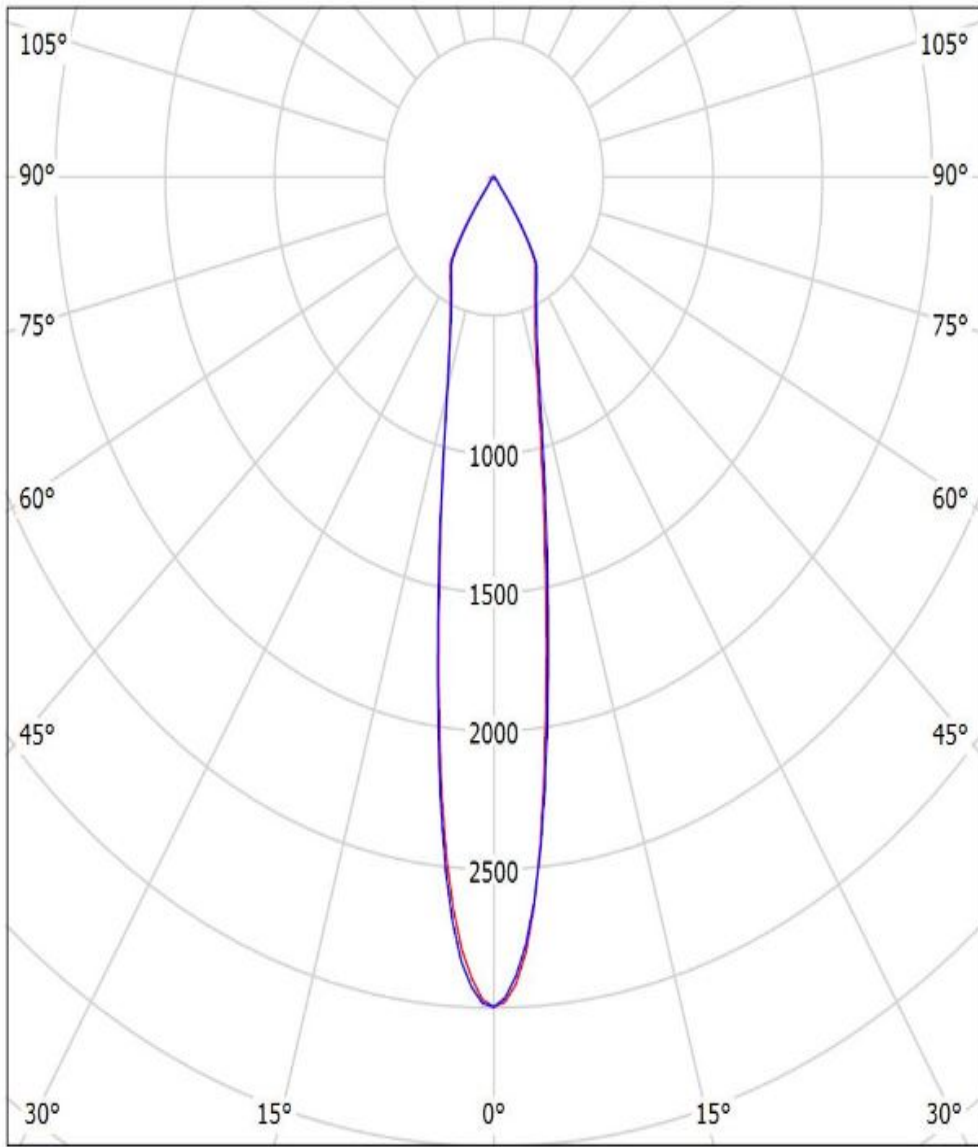
— C0 - C180

— C90 - C270

$\eta = 84\%$

Luminaire: Ledil F13380_ANGELA-M (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

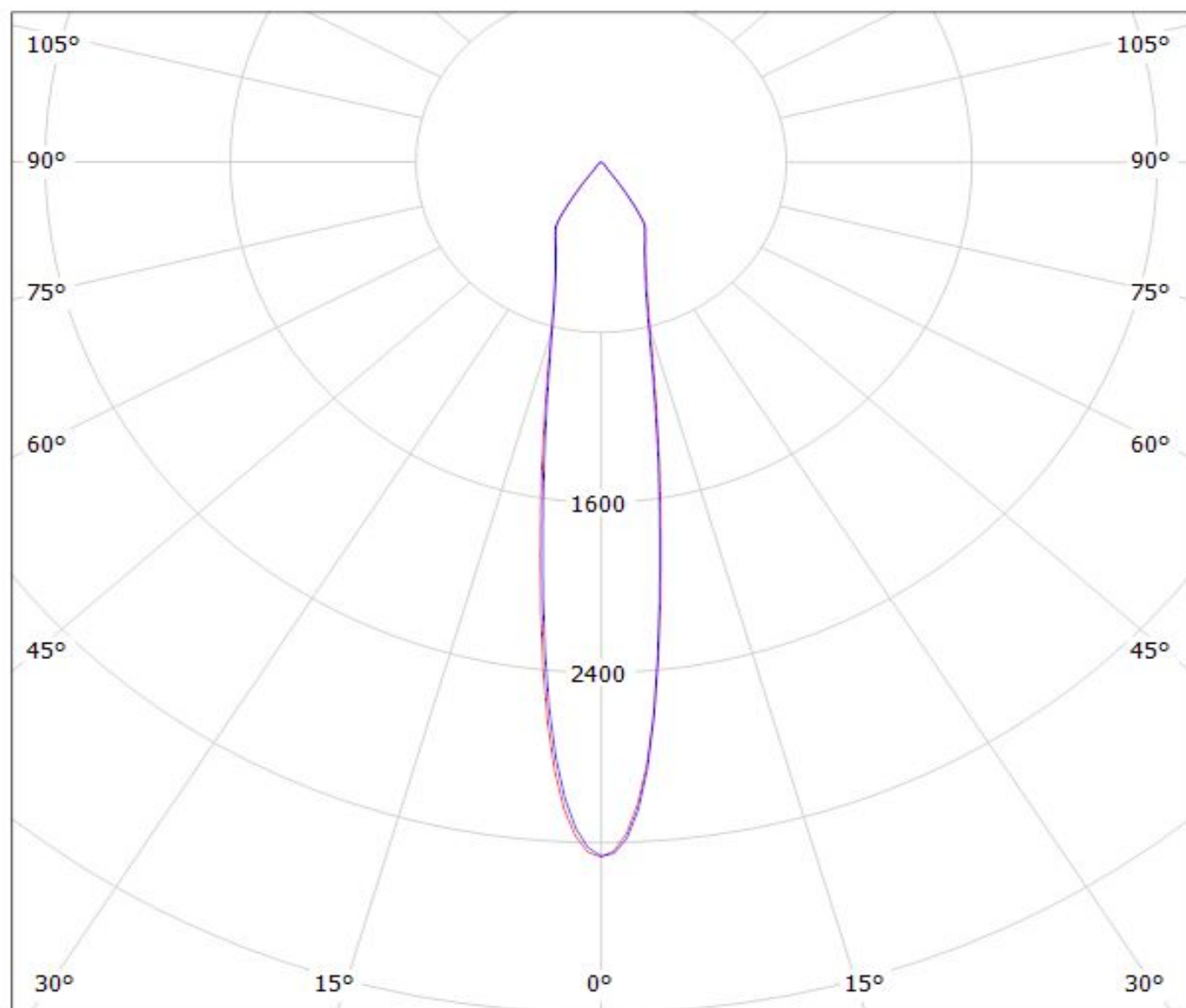


cd/klm

— C0 - C180 — C90 - C270

$\eta = 82\%$

Luminaire: LEDiL Oy F13380_ANGELA-M_(COB-LC026B) Eff.85.2%
Lamps: 1 x SAMSUNG_COB-LC026B_(SPHWWTHDNC25YHV52F)
_1122.94lm@250mA_P=8.2479W_I=249.8mA



cd/klm

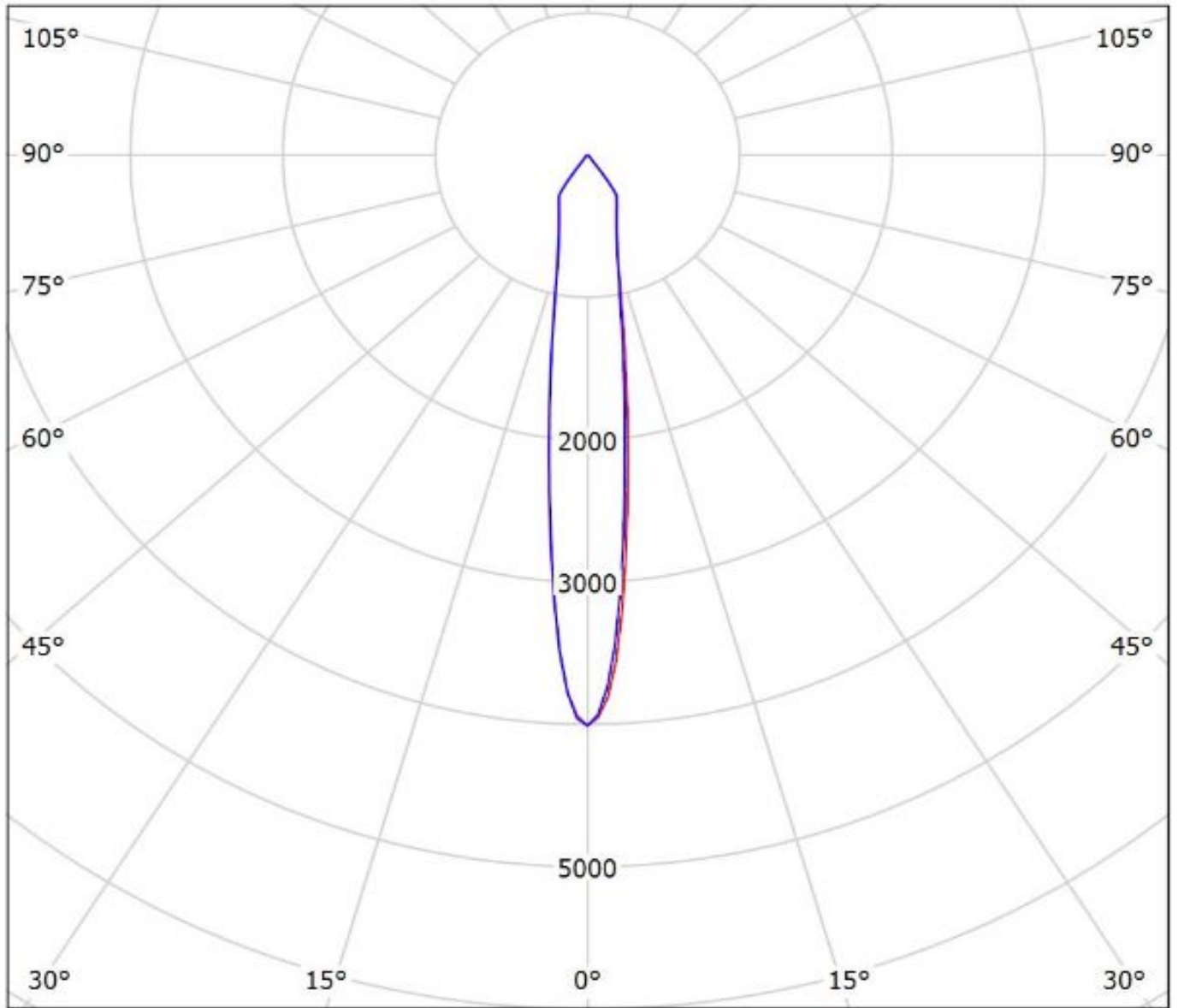
— C0 - C180

— C90 - C270

$\eta = 85\%$

Luminaire: Ledil F13380_ANGELA-M_(LC040C+TE)

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



cd/klm

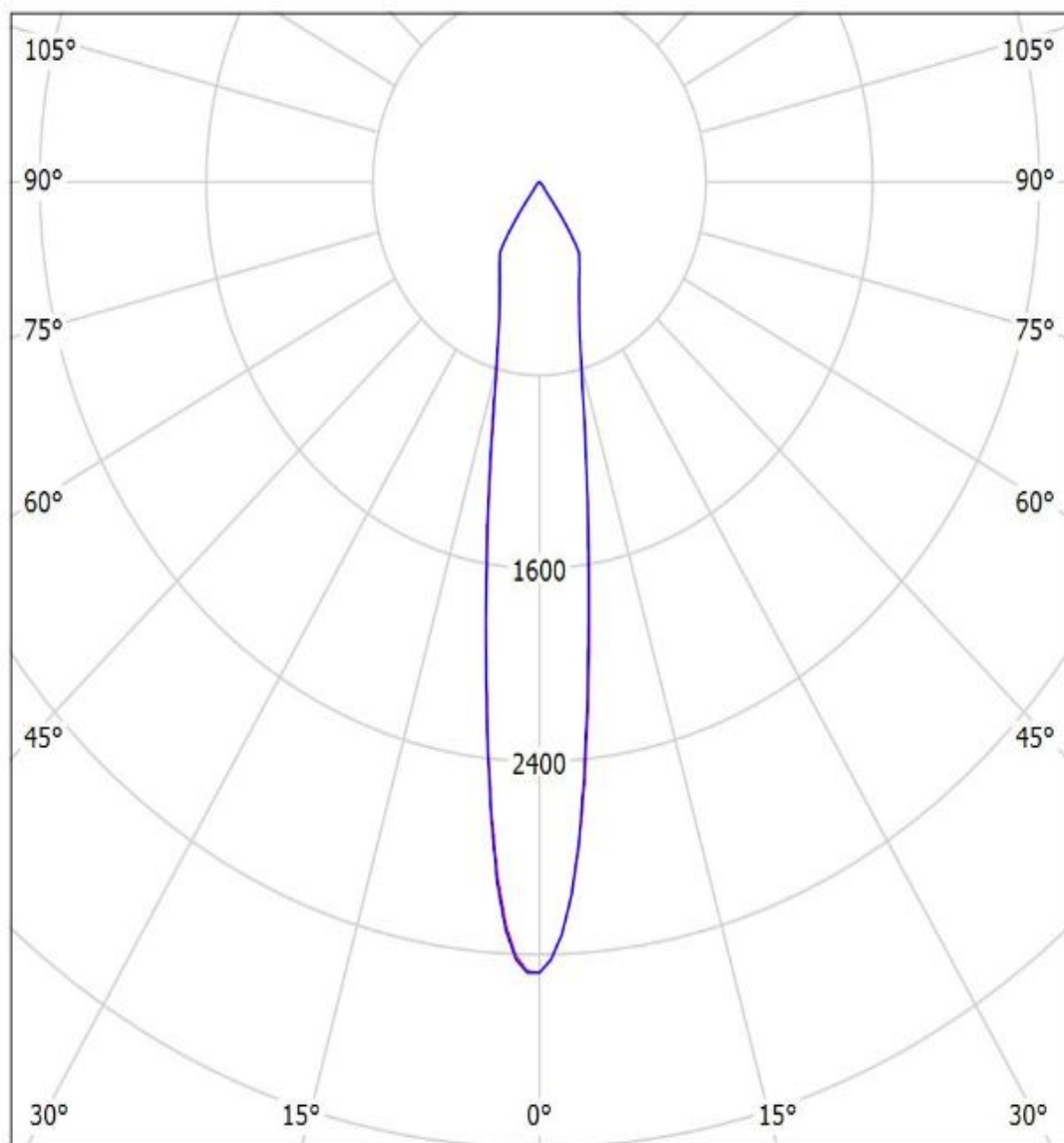
— C0 - C180

— C90 - C270

$\eta = 83\%$

Luminaire: Ledil F13380_ANGELA-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



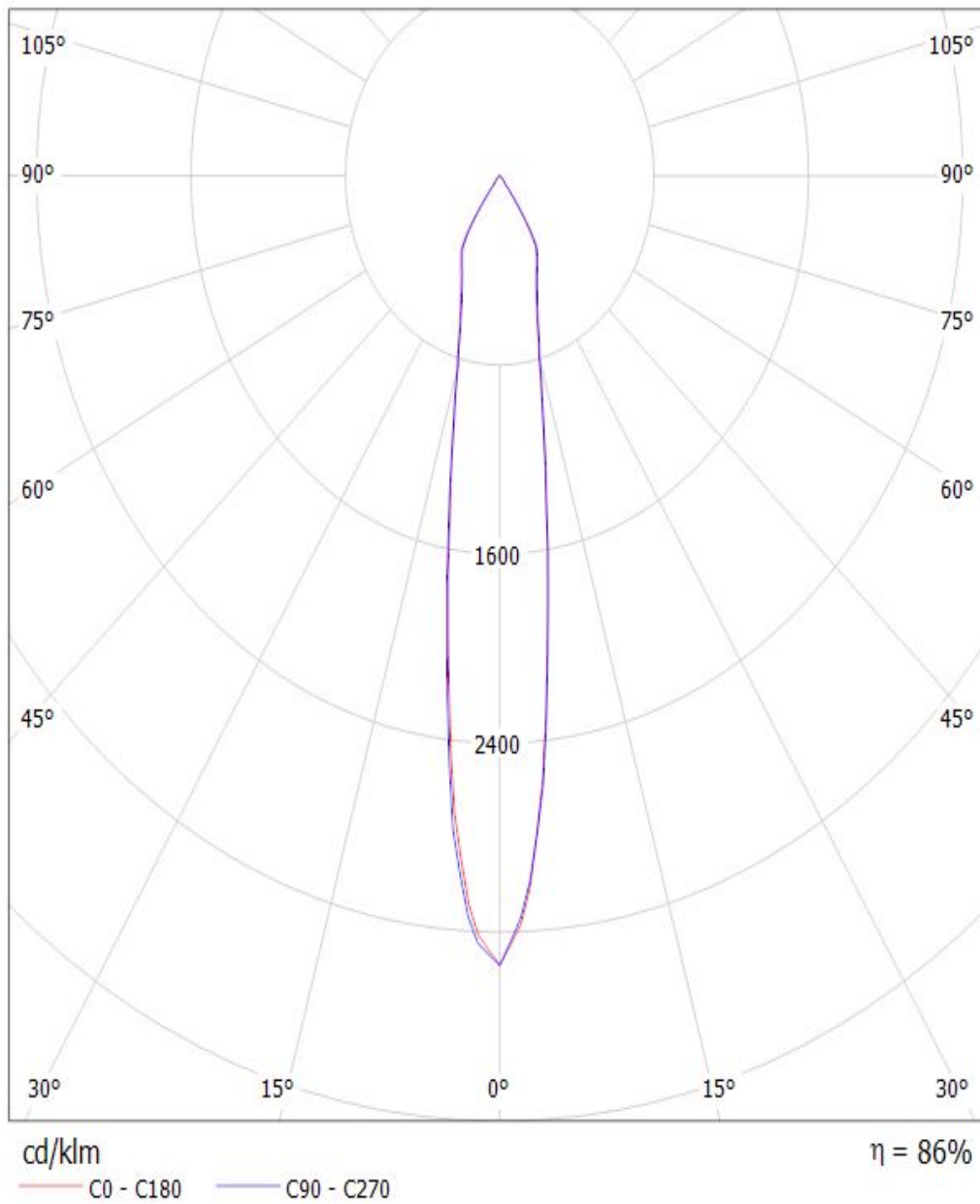
cd/klm

— C0 - C180 — C90 - C270

$\eta = 82\%$

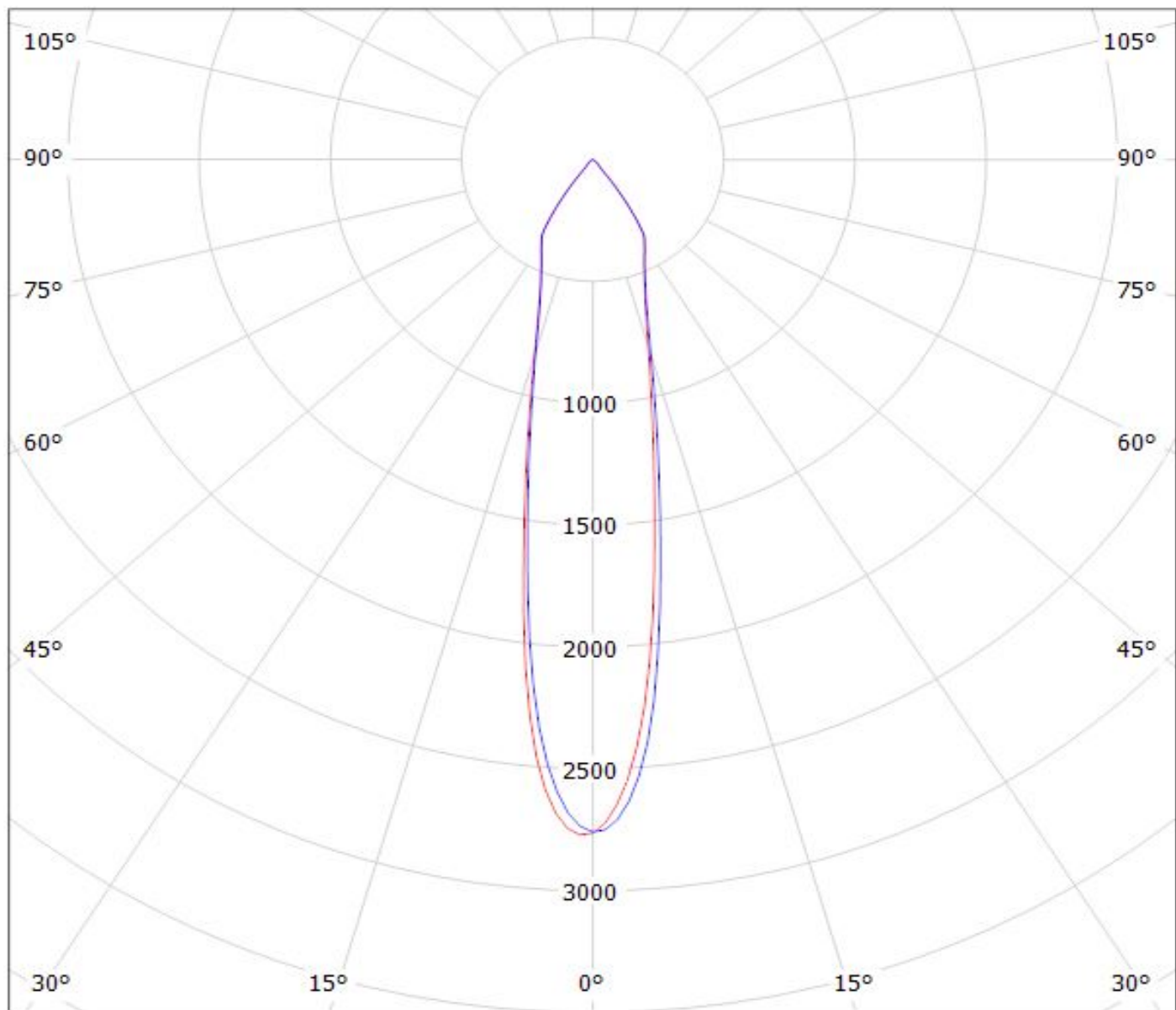
Luminaire: LEDiL Oy F13380_ANGELA-M_(STARK_LES19)

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 F13380_ANGELA-M_(STARK_LES23) Eff. 85.3%

Lamps: 1 x Tridonic_STARK_SLE_G3_LES23_795.318lm@250mA_P=8.22646W_I=249.9mA



cd/klm

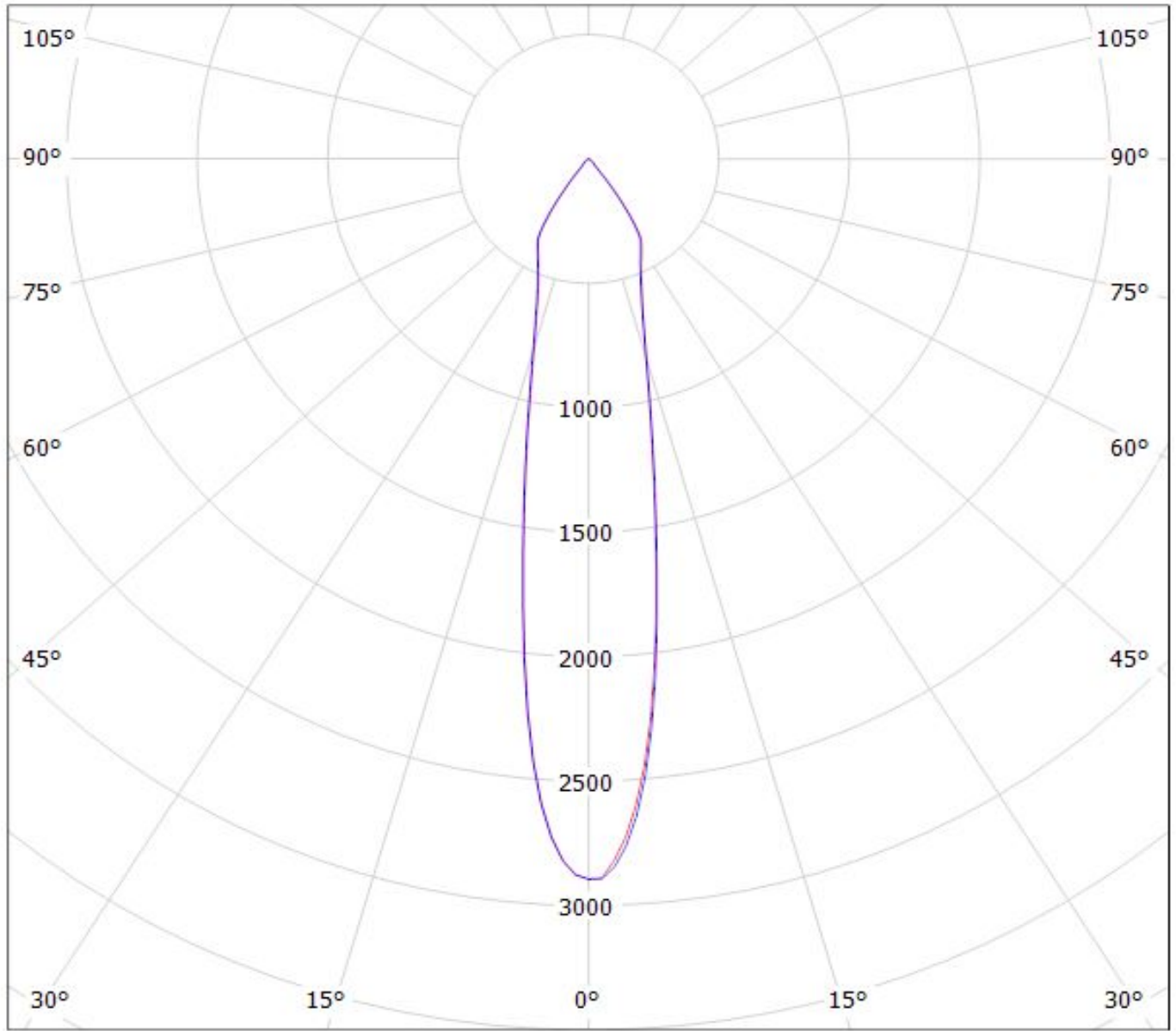
— C0 - C180

— C90 - C270

$\eta = 85\%$

Luminaire: LEDiL Oy F13380_ANGELA-M_(SLE_G4_LES23)

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



cd/klm

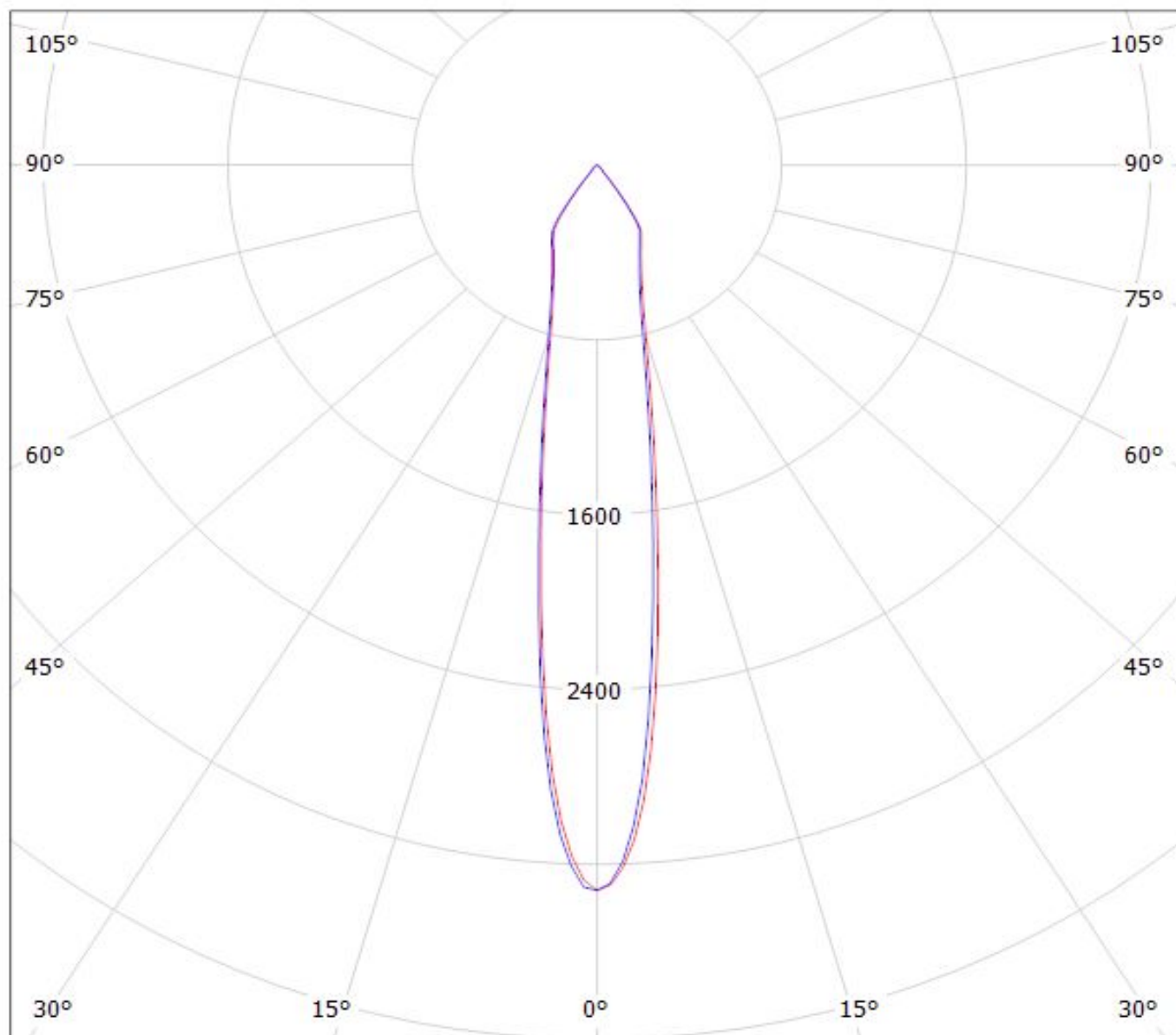
— C0 - C180

— C90 - C270

$\eta = 85\%$

Luminaire: LEDiL Oy F13380_ANGELA-M_(SLE GEN4 LES19)

Lamps: 1 x SLE GEN4 LES19_1226.28lm@250mA_P=8.21367W_I=0.2498A



cd/klm

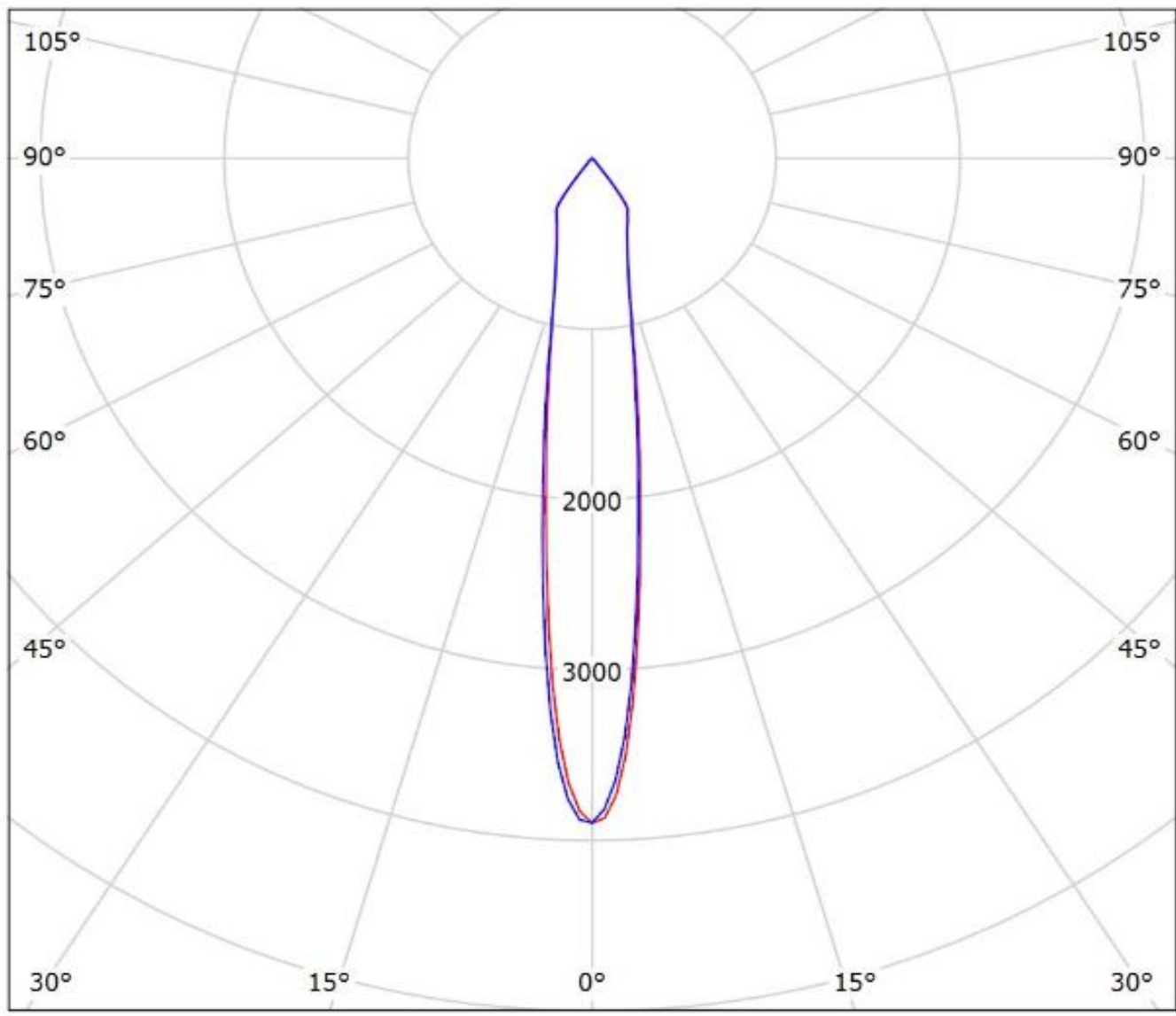
— C0 - C180

— C90 - C270

$\eta = 83\%$

Luminaire: LEDiL Oy F13380_ANGELA-M_(SLE-G5_LES-15)

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



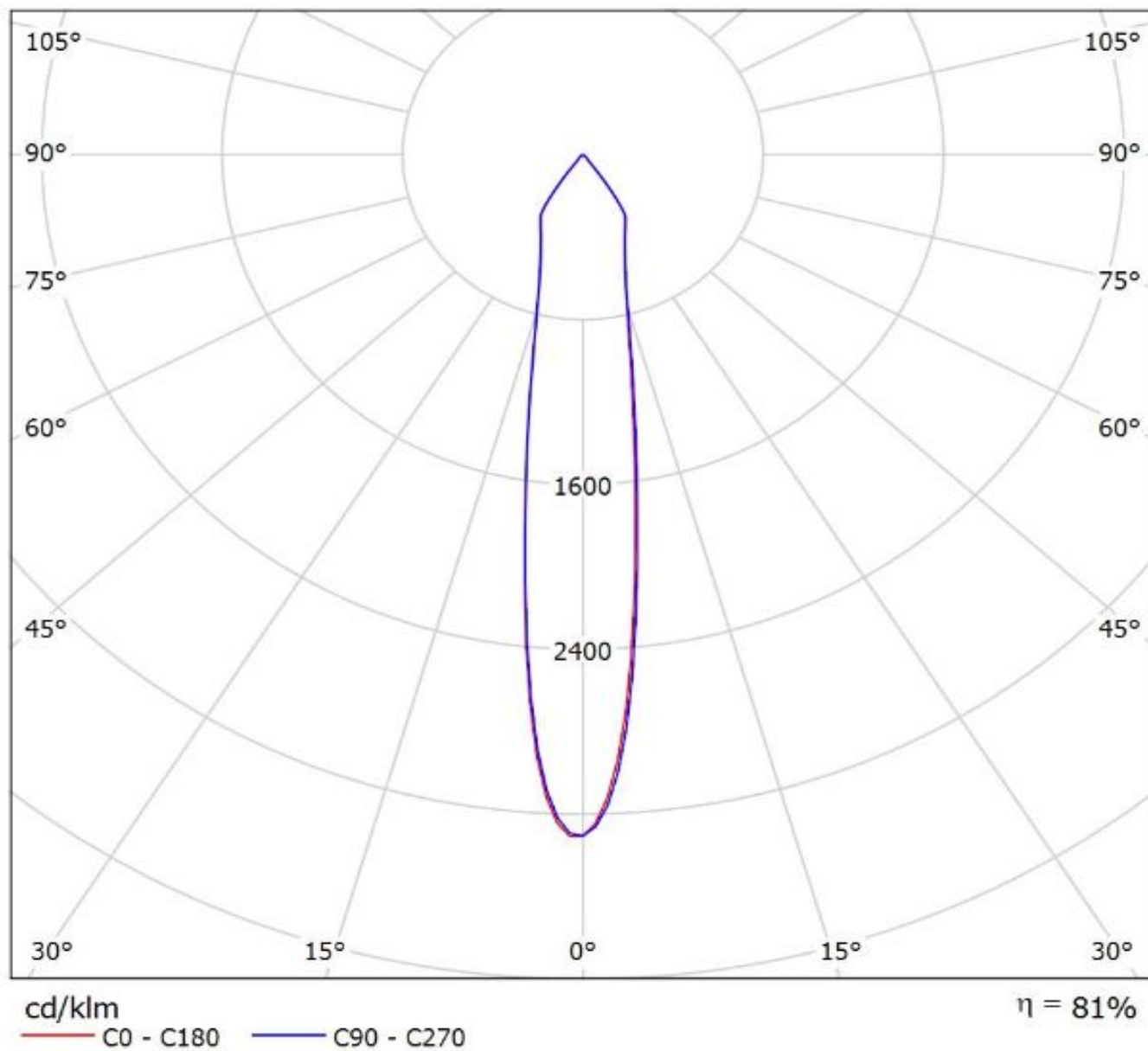
cd/klm

— C0 - C180 — C90 - C270

$\eta = 84\%$

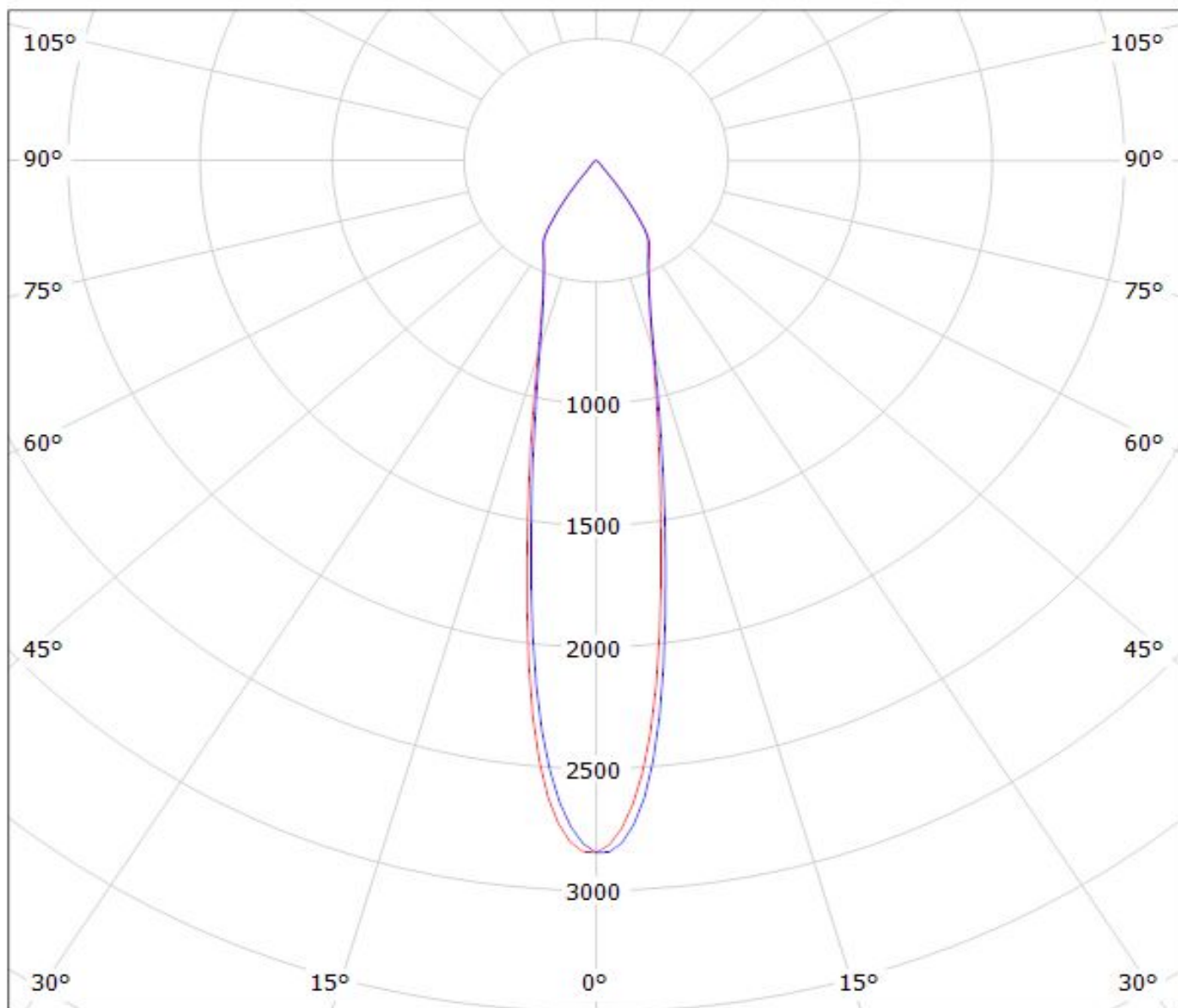
Luminaire: LEDiL Oy F13380_ANGELA-M_(SLE-G5_LES-19)

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



Luminaire: LEDiL Oy F13380_ANGELA-M_(SLE-G5_LES-23)

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



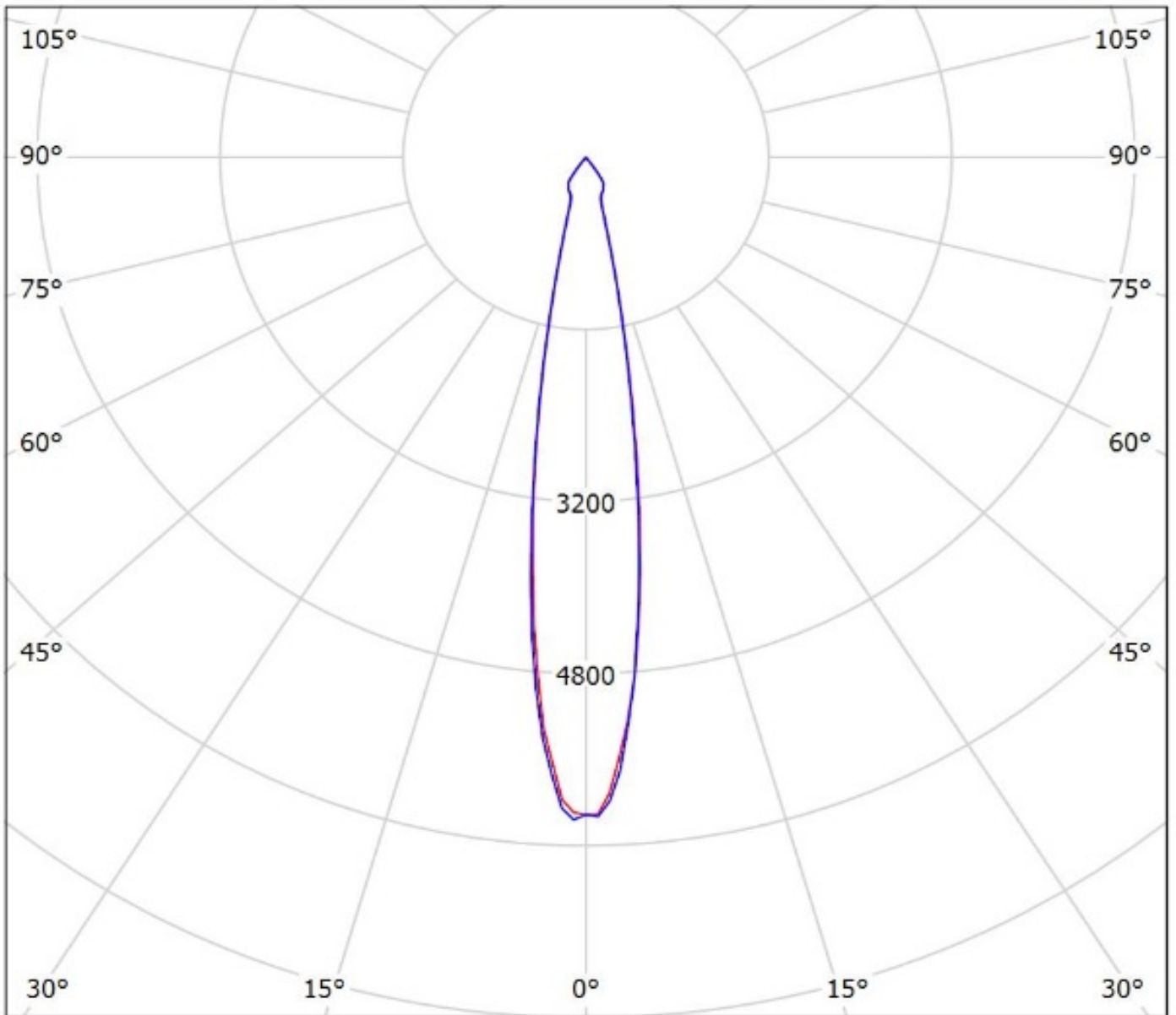
cd/klm

— C0 - C180

— C90 - C270

$\eta = 84\%$

Luminaire: Ledil Oy F13380_ANGELA-M_(SLE_G6_LES15)_(2213254-2+_2213194-1)_SIMULATED
Lamps: 1 x Tridonic SLE G5 LES15 + Tyco Electronics 2213254-2 + TE 2213194-1 optic clip

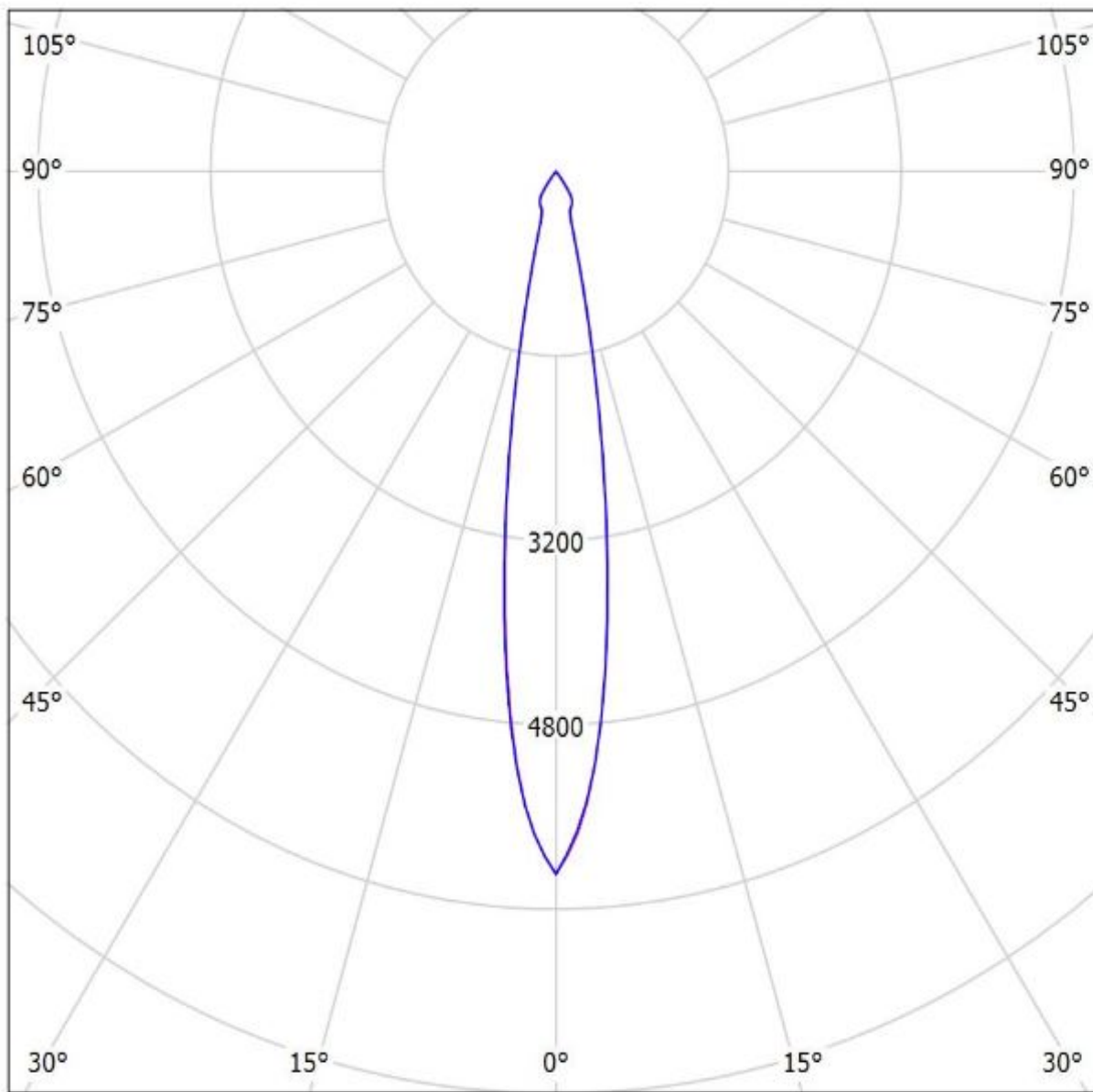


cd/klm

— C0 - C180 — C90 - C270

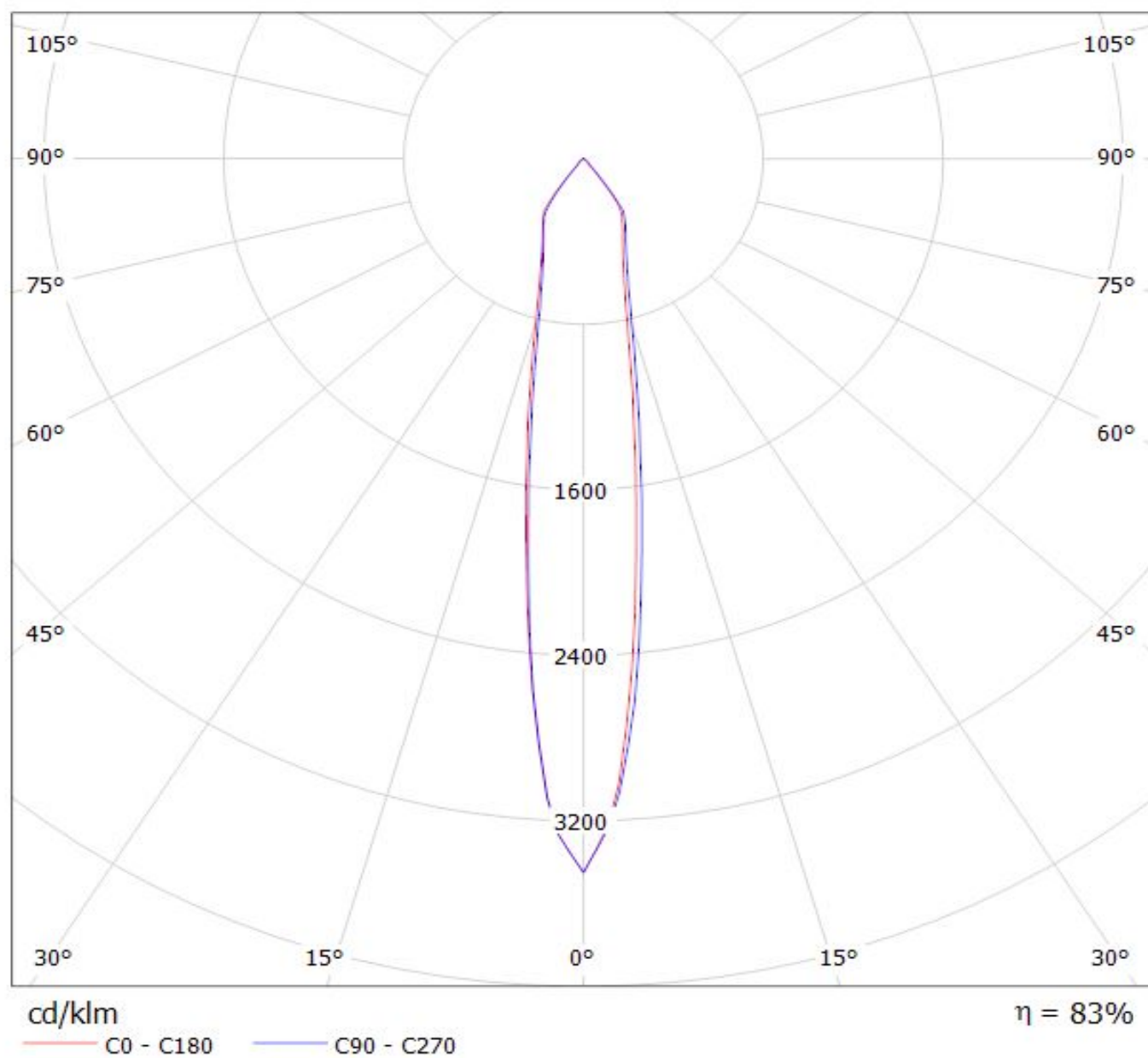
$\eta = 89\%$

Luminaire: Ledil Oy F13380_ANGELA-M+_TE_2213254-2+_TE_Z50_Type1_TRIDONIC_SLE_G6_LES17_SIMULATED
Lamps: 1 x TRIDONIC SLE G6 LES17



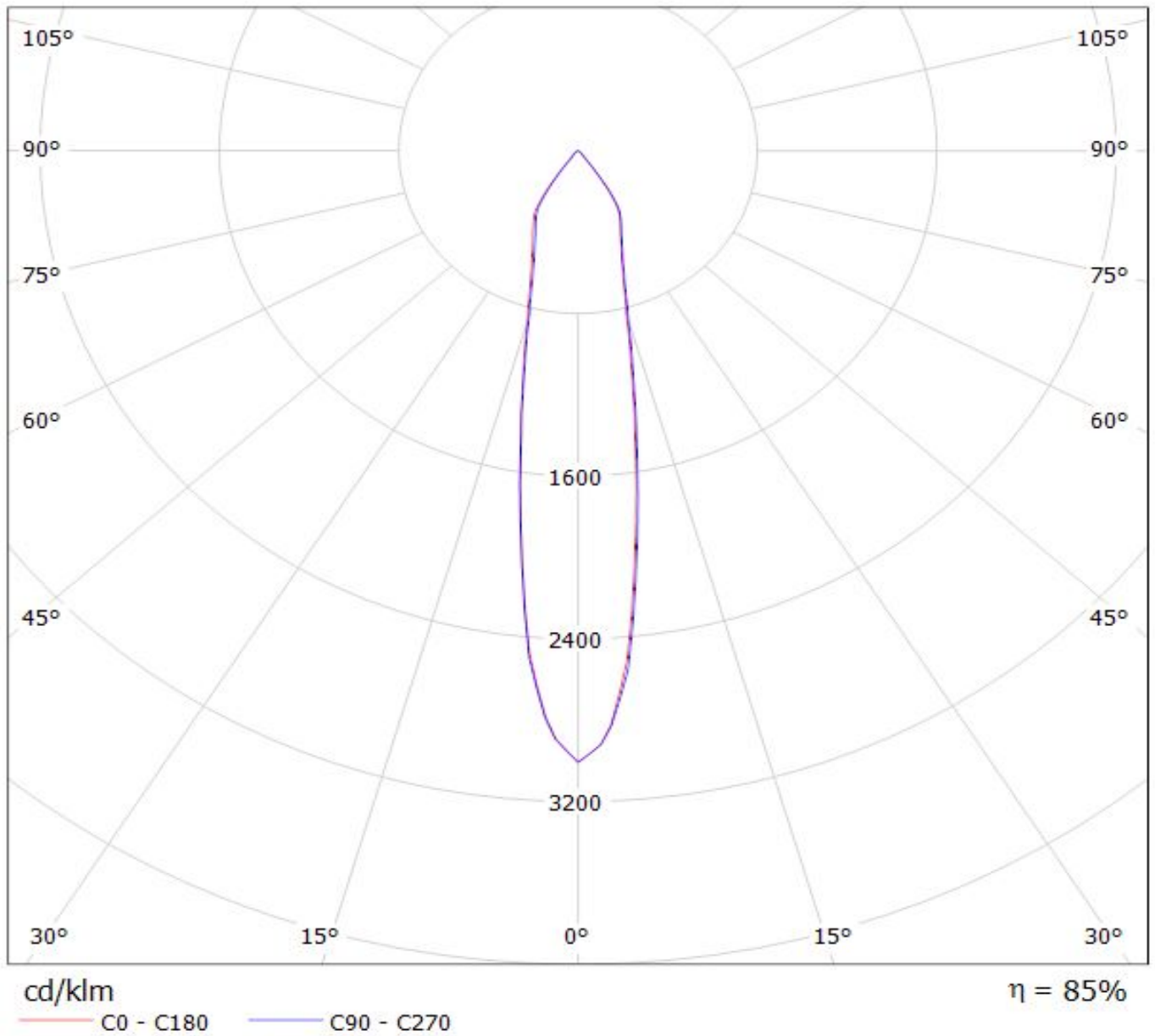
Luminaire: LEDiL Oy F13380_ANGELA-M_(WU-M-461-827)

Lamps: 1 x Vossloh_WU-M-461-827_785.152lm@250mA_P=6.30695W_I=249.8mA



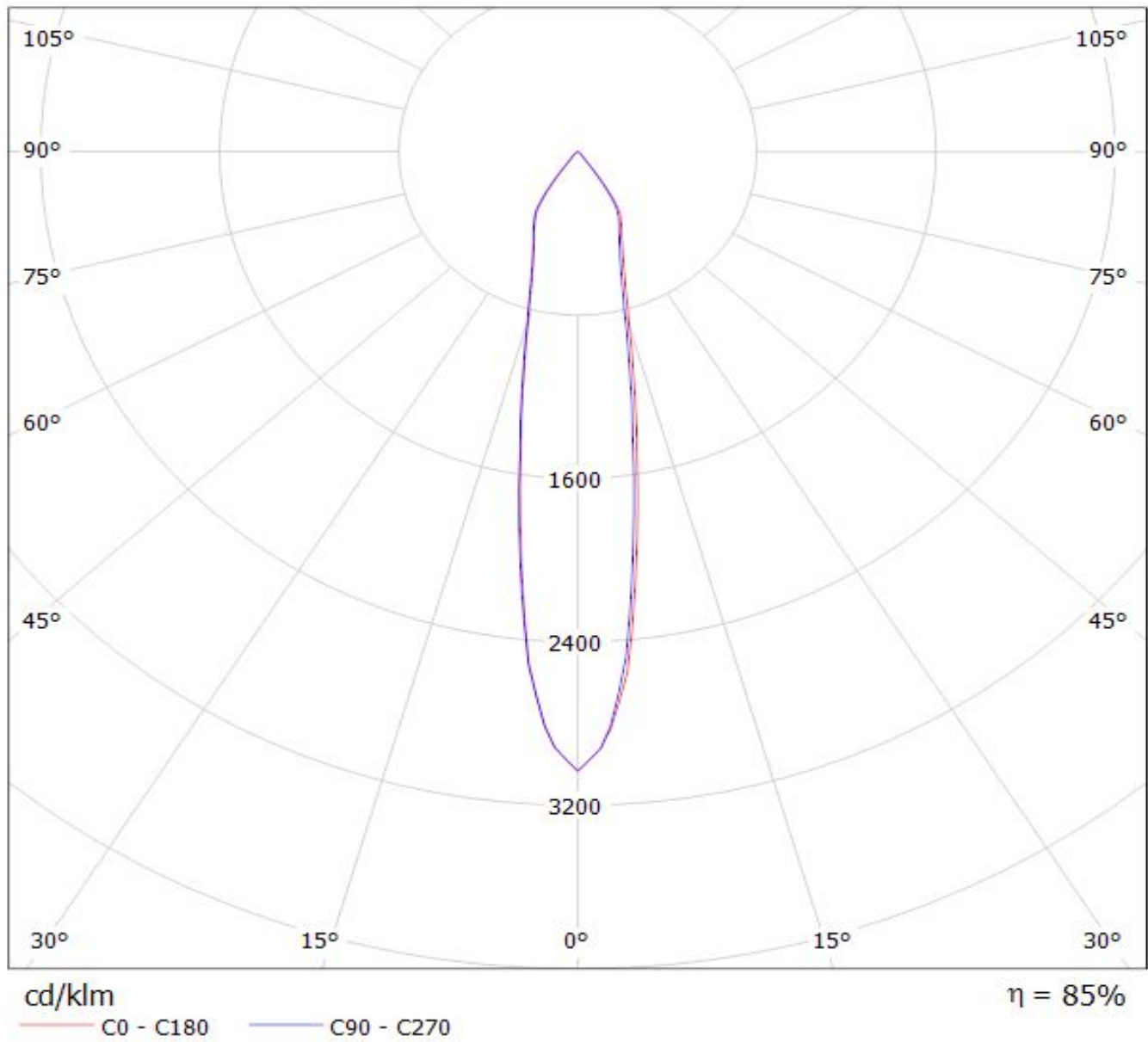
Luminaire: LEDiL Oy F13380_ANGELA-M_(WU-M-462-827)

Lamps: 1 x Vossloh_WU-M-462-827_1116.7lm@250mA_P=8.9943W_I=249.8mA



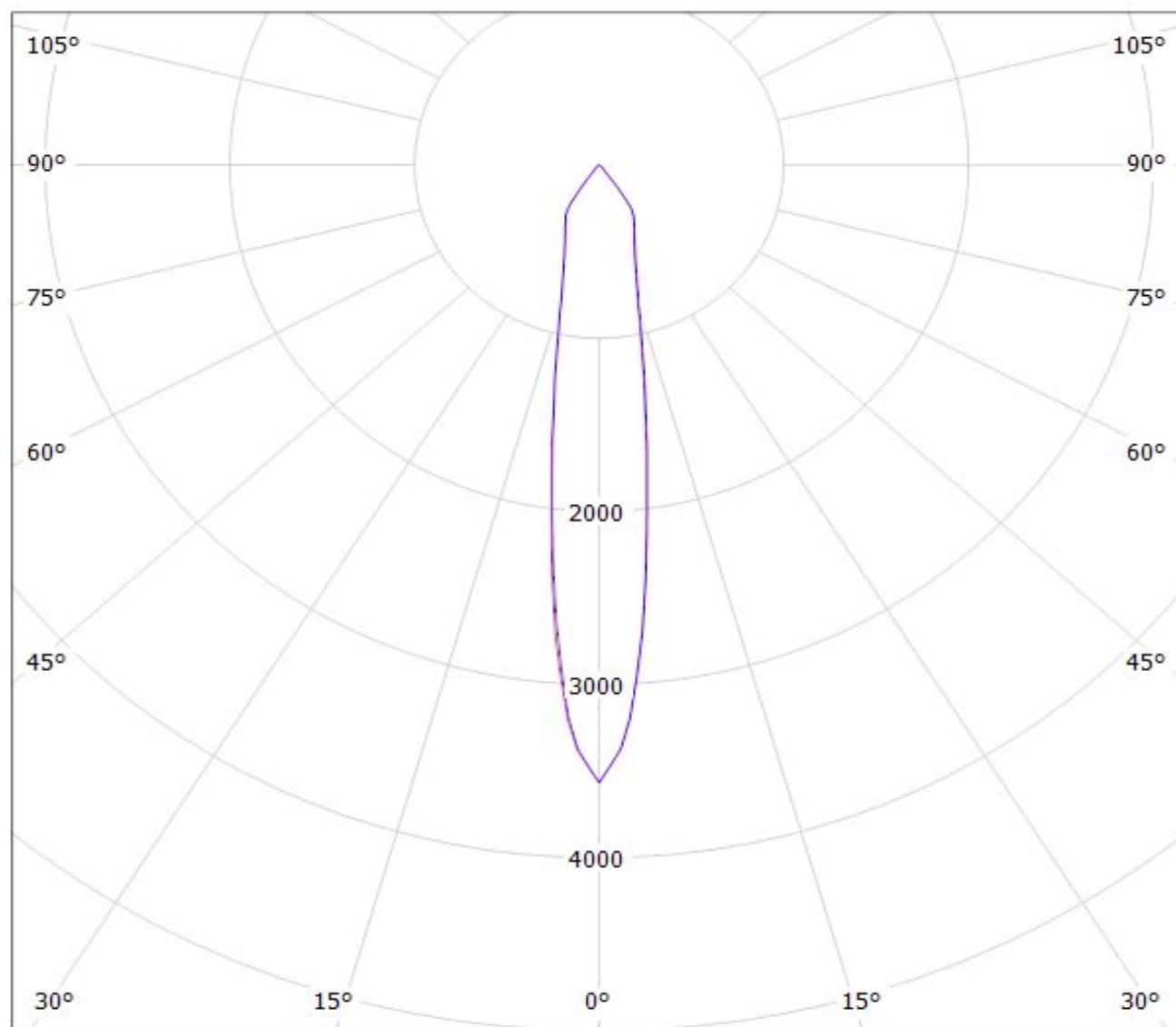
Luminaire: LEDiL Oy F13380_ANGELA-M_(WU-M-464-827)

Lamps: 1 x Vossloh_WU-M-464-827_1452.93lm@250mA_P=11.6939W_I=249.8mA



Luminaire: LEDiL Oy F13380_ANGELA-M_(WU-M-484)

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



cd/klm

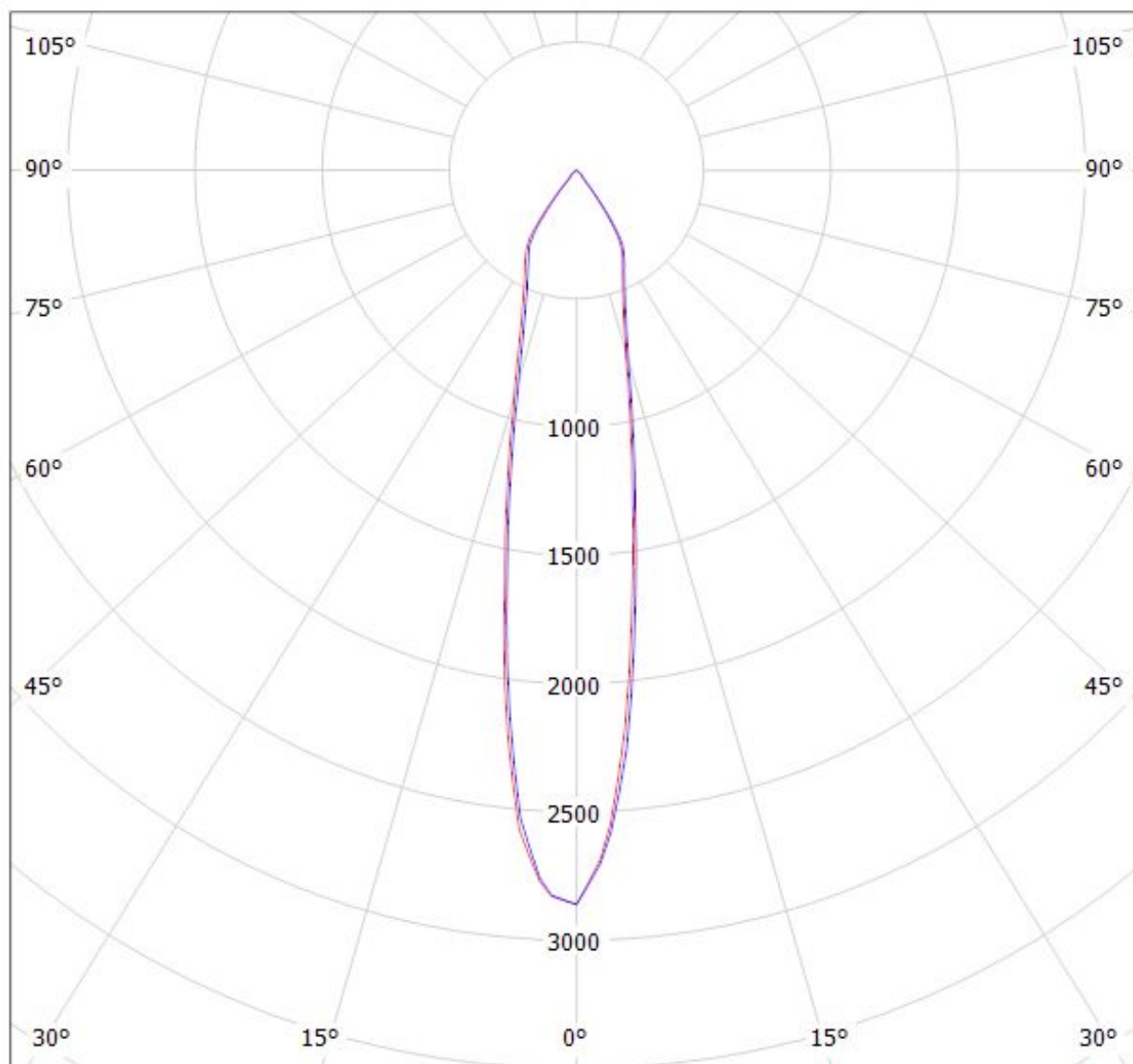
— C0 - C180

— C90 - C270

$\eta = 85\%$

Luminaire: LEDiL Oy F13380_ANGELA-M_(WU-M-485)

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



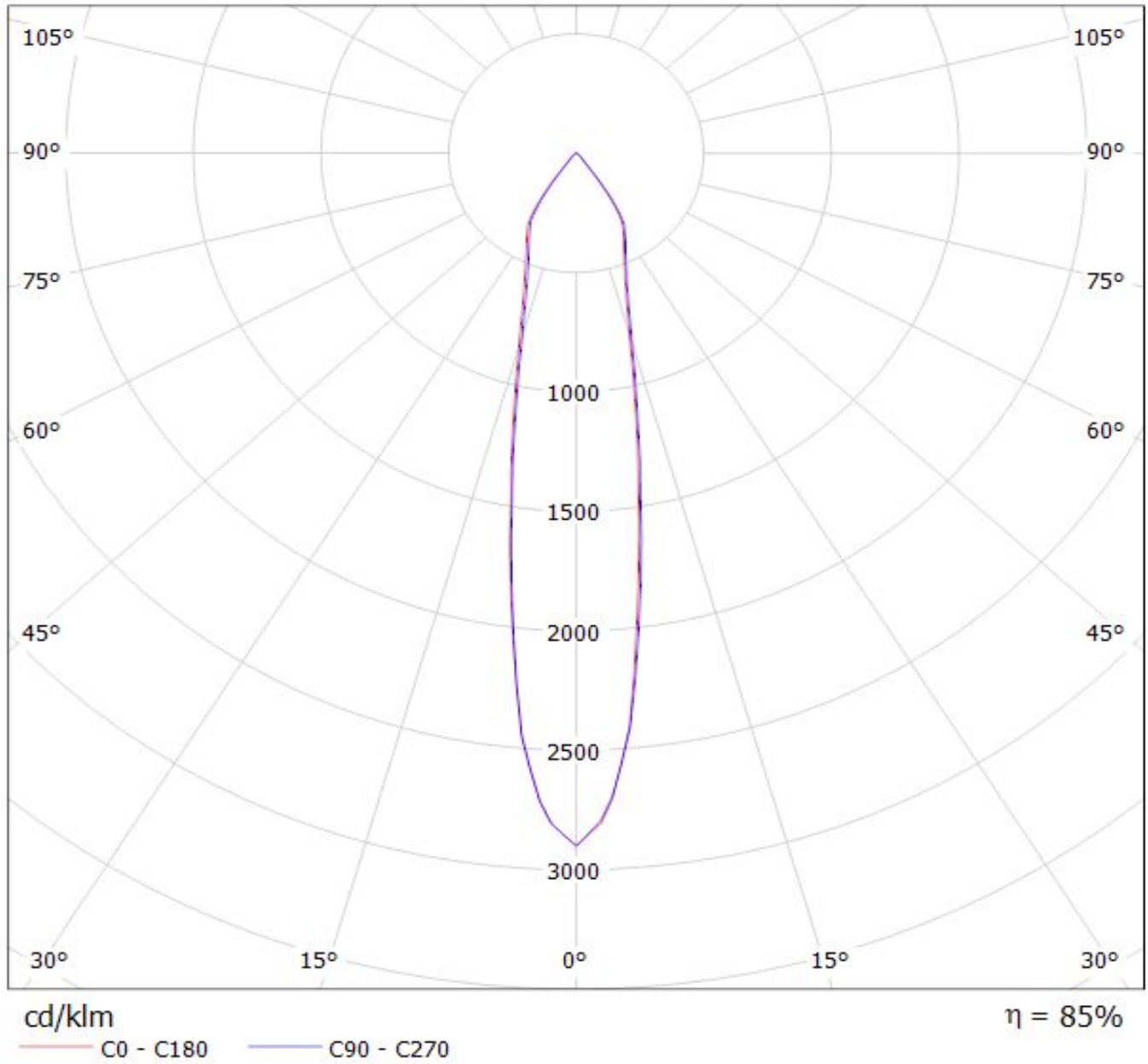
cd/klm

$\eta = 85\%$

— C0 - C180 — C90 - C270

Luminaire: LEDiL Oy F13380_ANGELA-M_(WU-M-486) Eff.84.4%

Lamps: 1 x Vossloh_Schwabe-WU-M-486_(WU-M-486-830)_1474.55lm@250mA_P=10.4456W_I=249.8mA



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.