

PRODUCT DATASHEET

ANGELA series

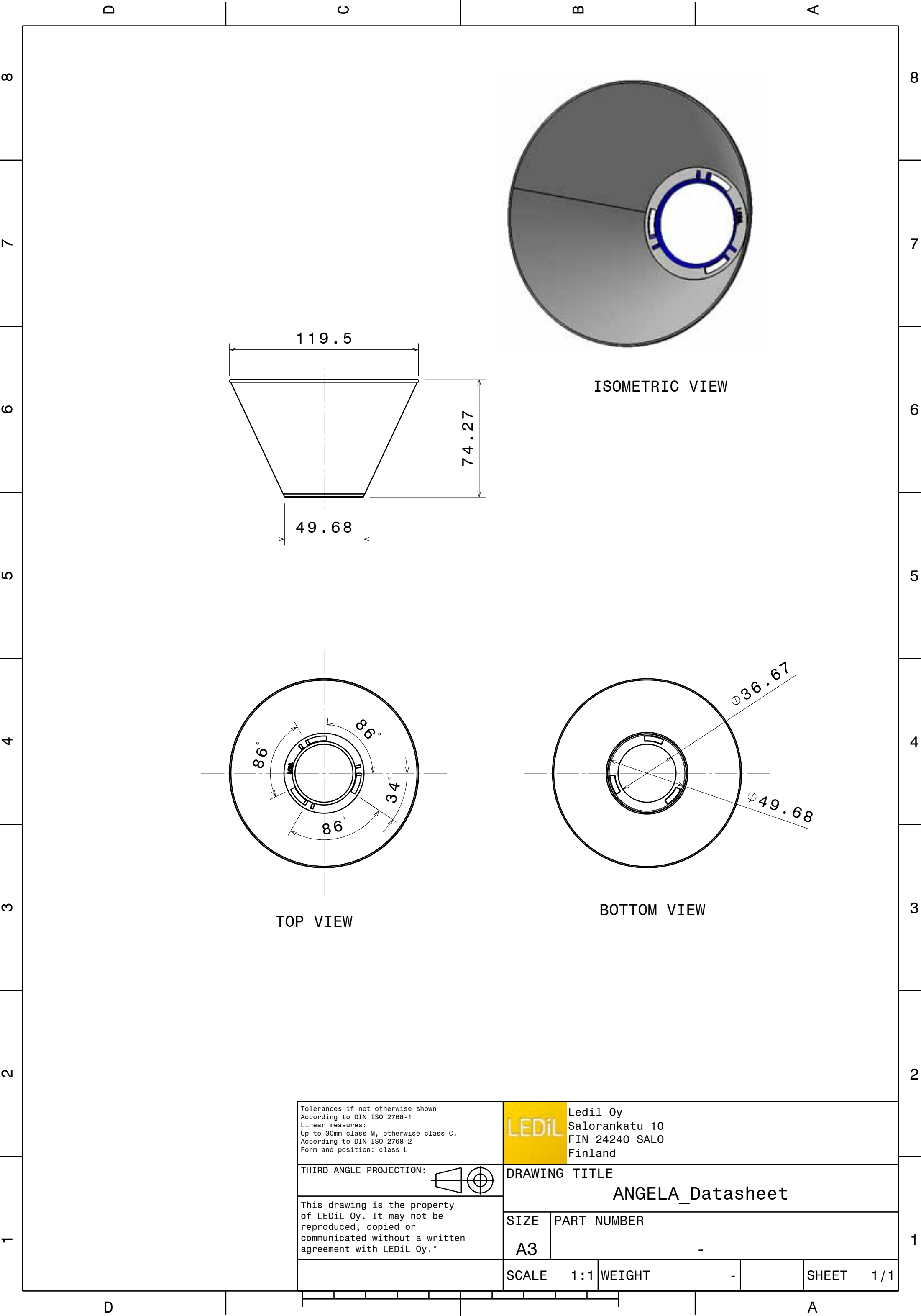
last update 11/7/2014

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	ready
ROHS Comliant	Yes
Date Updated	11/11/2014

OPTICAL PROPERTIES

	Viewing	Light	Effi-		
LED	Angle	Beam	ciency	cd/lm	Connector
Fortimo LED SLM L9 G4 standard	12 deg	Medium	85 %	4.900	TE: Z50 Optic Clip part nr. 2213194-1
PrevaLED Core Z3 LES9	12 deg	Medium	85 %	5.190	TE: Z50 Optic Clip part nr. 2213194-1
CLU720	12 deg	Medium	87 %	4.400	IDEAL: 50-2103CT + Angela(50-2100AN)
PrevaLED Core AC (LEP-800)	13 deg	Medium	86 %	4.560	TE: Z50 Optic Clip part nr. 2213194-1
CLL03x/CLU034	14 deg	Medium	84 %	4.100	IDEAL: 50-2103CT + Angela(50-2100AN)
CLU720	14 deg	Medium	87 %	4.000	TE: part nr. 2213254-2 + Z50 Optic Clip part nr. 2213194-1
LUXEON CoB 1204/1205	15 deg	Medium	85 %	3.930	TE: part nr. 2213130-2 + Z50 Optic Clip part nr. 2213194-1
Soleriq P13	15 deg	Medium	85 %	3.900	TE: part nr. 2213401-2 + Z50 Optic Clip part nr. 2213194-1
Soleriq S13	15 deg	Medium	86 %	4.200	TE: part nr. 2213401-2 + Z50 Optic Clip part nr. 2213194-1
L121A/L060B/L024Z	15 deg	Medium	84 %	5.350	TE: Solderless Connector part nr. 2213382-2 + Z50 Optic Clip part nr.
Fortimo LED SLM L13 G4 standard	15 deg	Medium	85 %	4.100	TE: Z50 Optic Clip part nr. 2213194-1
LUXEON CoB 1208	16 deg	Medium	85 %	3.700	TE: part nr. 2213130-2 + Z50 Optic Clip part nr. 2213194-1
CXM-14	16 deg	Medium	85 %	3.860	TE: part nr 2213254-2 + Z50 Optic Clip part nr. 2213194-1
Fortimo LED SLM L15 G4 standard	16 deg	Medium	85 %	3.700	TE: Z50 Optic Clip part nr. 2213194-1
L121A/L060B/L024Z	16 deg	Medium	86 %	3.740	Molex: part nr. 180580-0005
PrevaLED Core Z4 LES19	16 deg	Medium	85 %	3.600	TE: Z50 Optic Clip part nr. 2213194-1
WU-M-484	17 deg	Medium	85 %	3.600	TE: Z50 Optic Clip part nr. 2213194-1
PrevaLED Core Z3 LES19	17 deg	Medium	85 %	3.470	TE: Z50 Optic Clip part nr. 2213194-1
Soleriq S19	17 deg	Medium	86 %	3.510	TE: part nr. 2213407-2 + Z50 Optic Clip part nr. 2213194-1
PrevaLED Core AC (LEP-2000)	17 deg	Medium	85 %	3.470	TE: Z50 Optic Clip part nr. 2213194-1
J216A/J130B/J108B/J048Z	17 deg	Medium	83 %	3.890	IDEAL: 50-2103NC + Angela(50-2100AN)
SLE G4 LES19 H	17 deg	Medium	83 %	3.300	TE: Z50 Optic Clip part nr. 2213194-1
WU-M-461	17 deg	Medium	83 %	3.450	TE: Z50 Optic Clip part nr. 2213194-1
STARK SLE G3 LES19	18 deg	Medium	85 %	3.360	TE: Z50 Optic Clip part nr. 2213194-1
LC026B/LC040B	18 deg	Medium	85 %	3.300	TE: part nr. 2213258-2 + Z50 Optic Clip part nr. 2213194-1



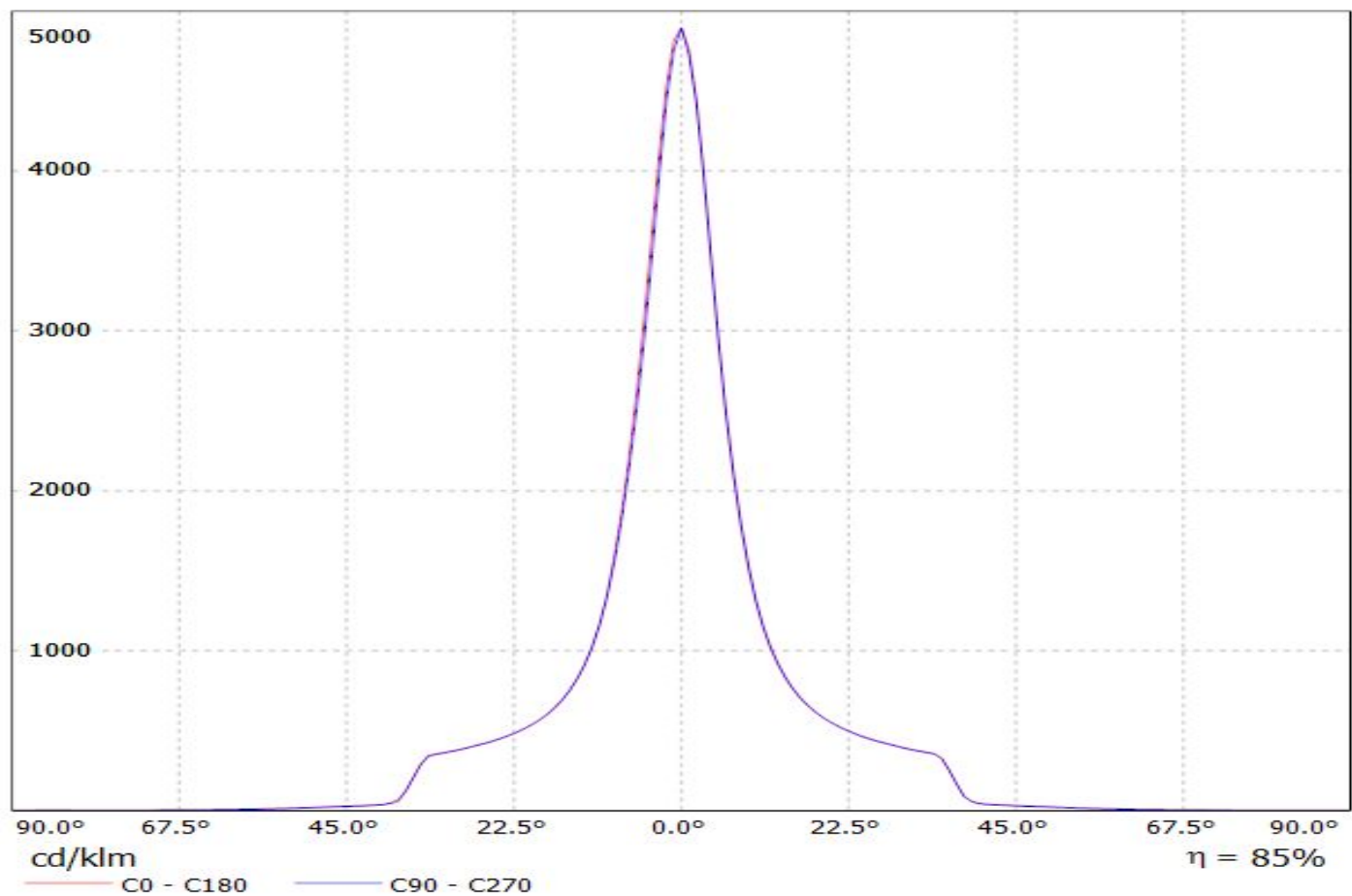
Tolerances if not otherwise shown
According to DIN ISO 2768-1
Linear measures:
Up to 30mm class M, otherwise class C.
According to DIN ISO 2768-2
Form and position: class L

THIRD ANGLE PROJECTION:

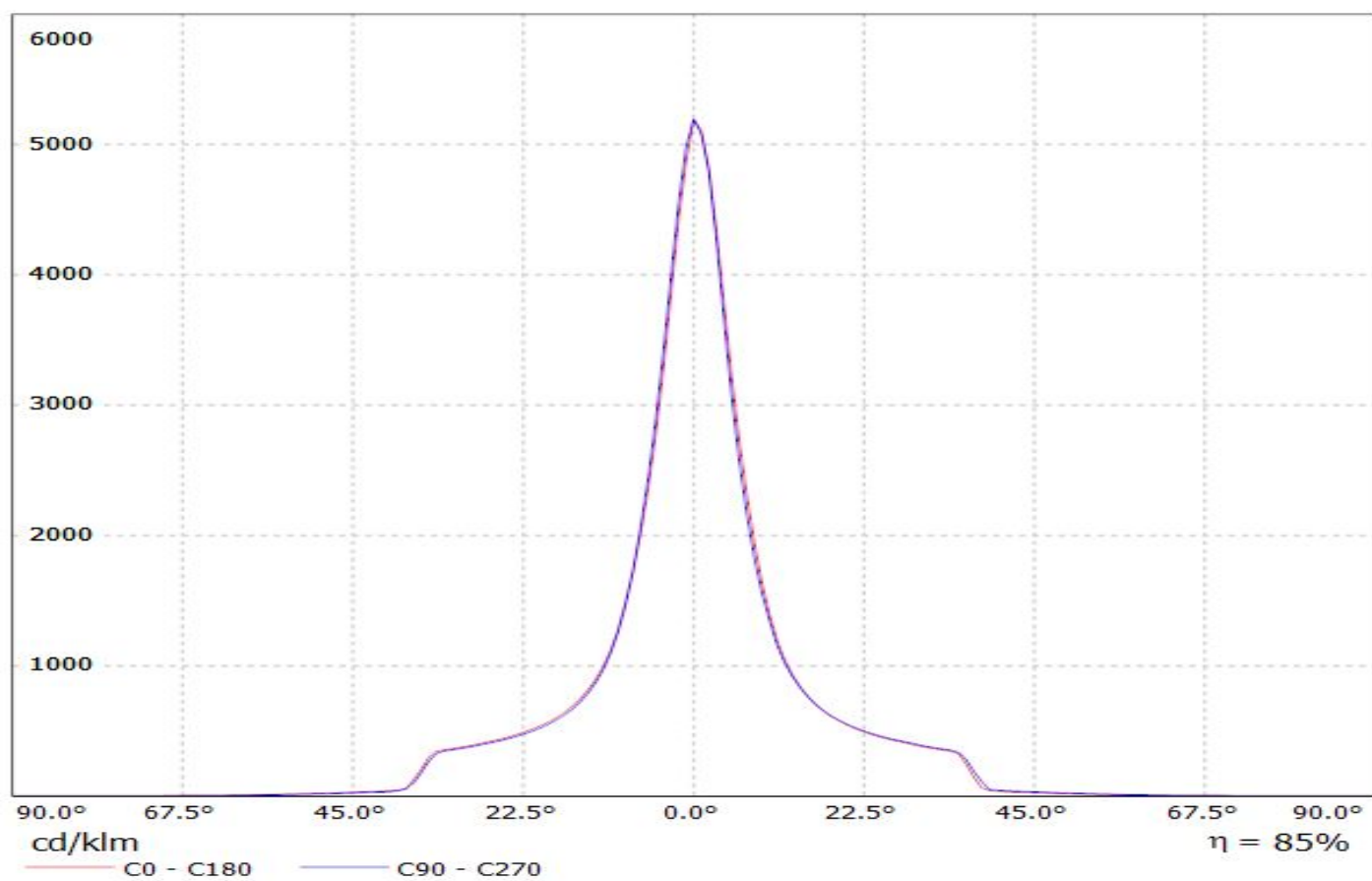
This drawing is the property
of LEDiL Oy. It may not be
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agreement with LEDiL Oy."

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

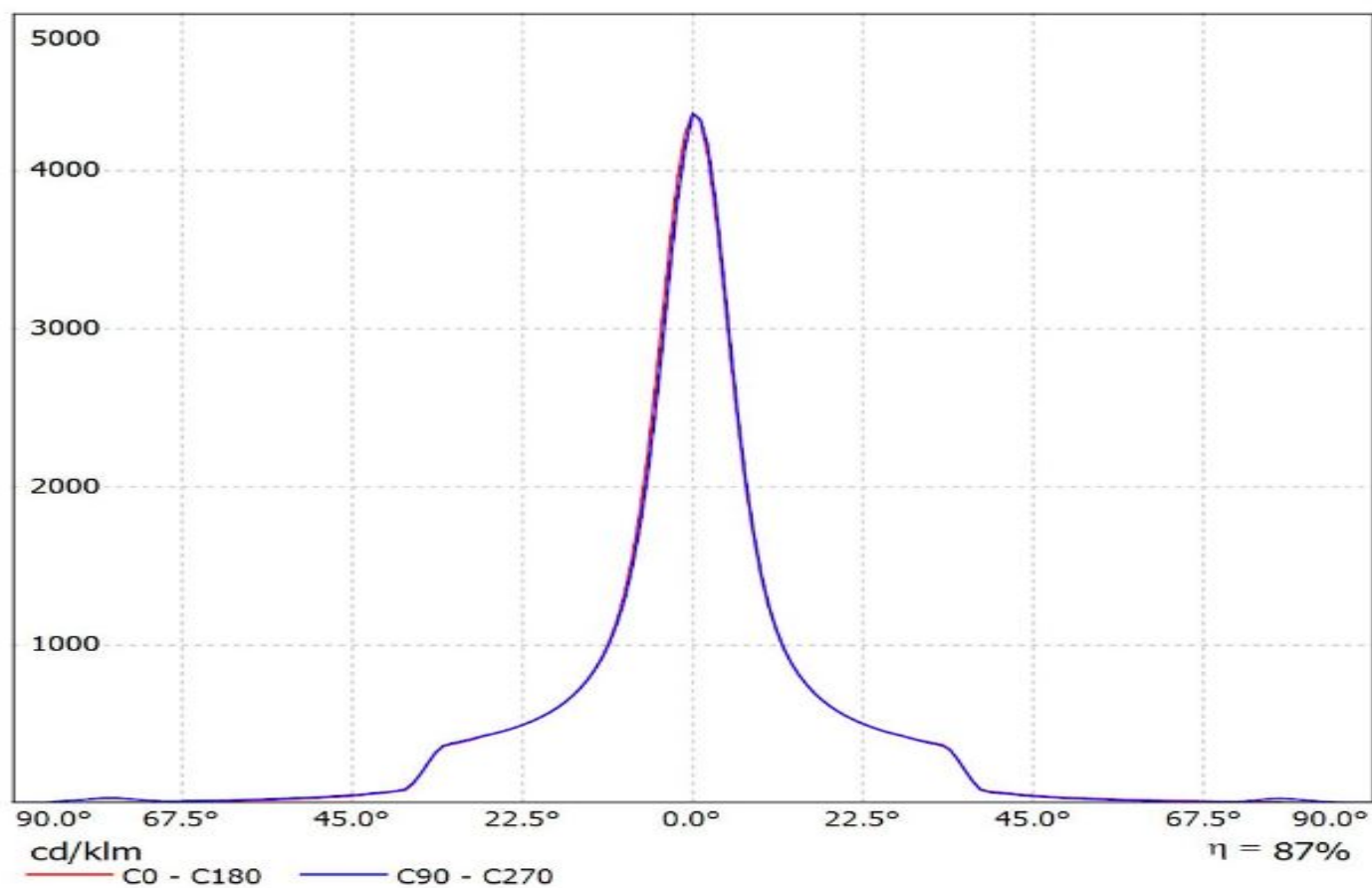
Luminaire: LEDiL Oy F13380_ANGELA-M_(Fortimo LED SLM 1100 lm 830 L9 G4)
Lamps: 1 x Fortimo LED SLM 1100 lm 830 L9 G4_1021.27lm@250mA_P=9.2431W_I=0.2498A



Luminaire: LEDiL Oy F13380_ANGELA-M_(PrevaLED_LES9)
Lamps: 1 x Osram_PrevaleLED_Core_Z3_LES9_(PL-CORE-1100-830-Z3)
_1132.95lm@250mA_P=12.1952W_I=249.8mA

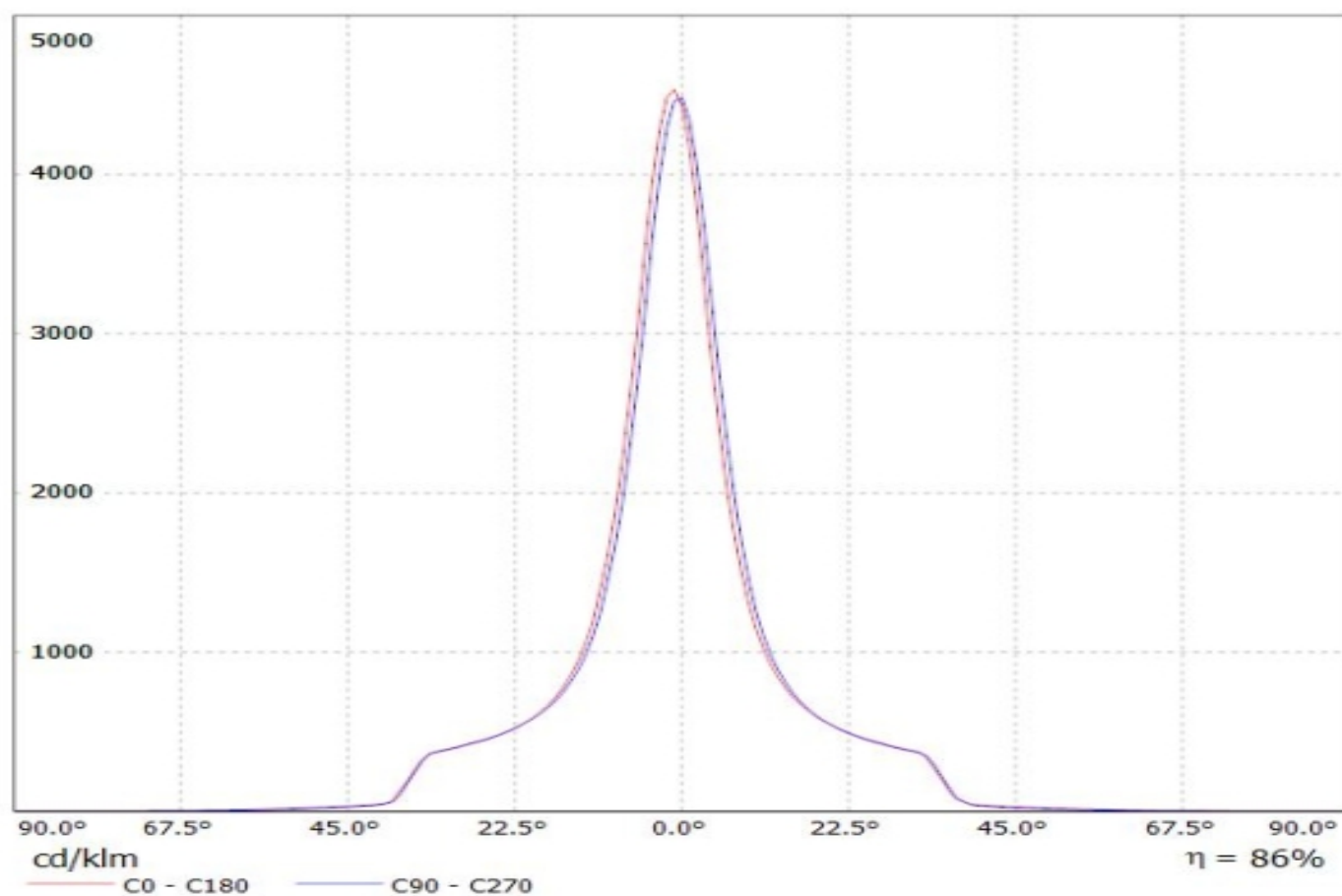


Luminaire: Ledil FF13380_ANGELA-M_(CLU720)
Lamps: 1 x CITIZEN_CLU720_(CLU720-1206B8-273M2)
_1337.27lm@250mA_CCT=2700K_P=8.35W_I=0.25A

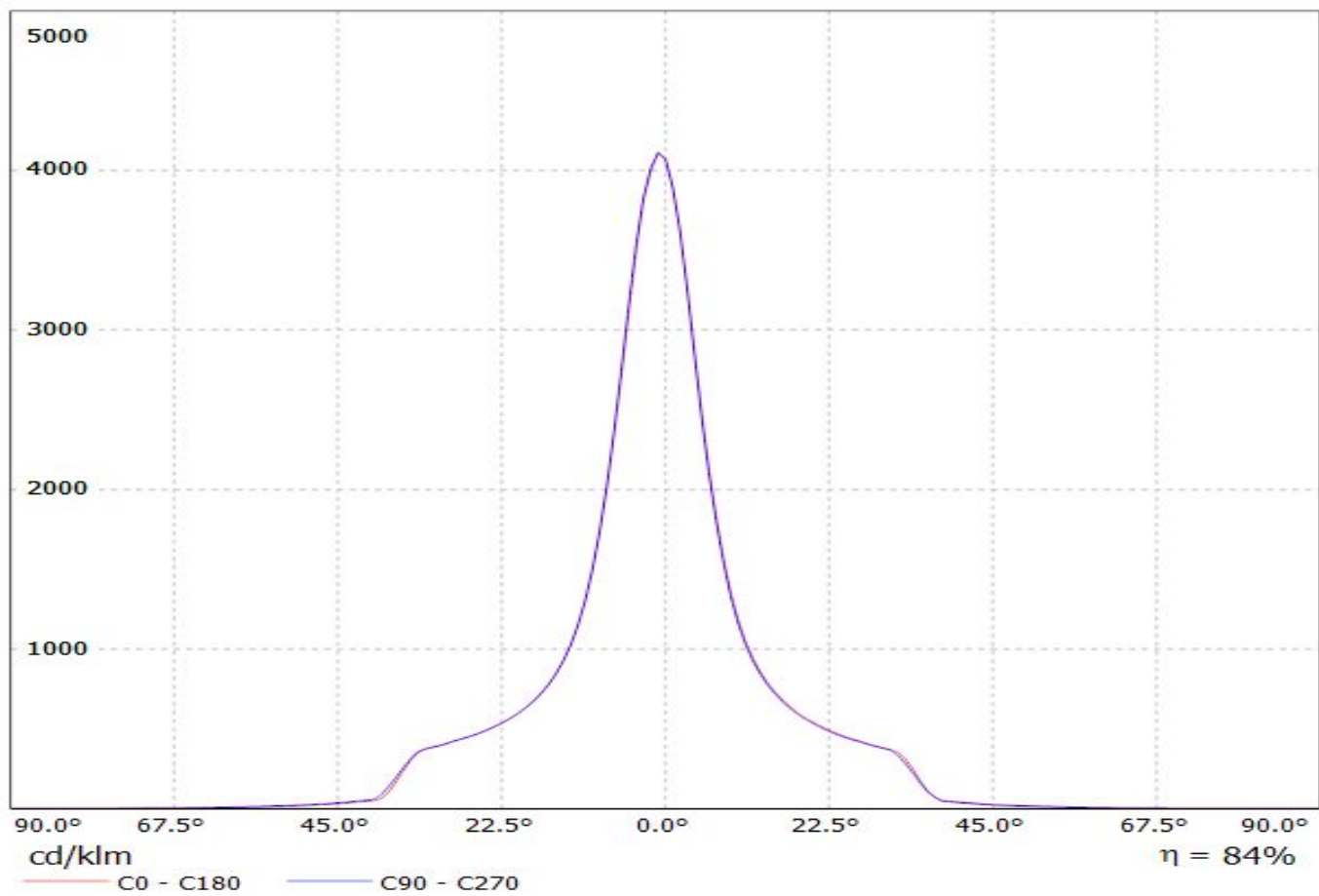


Luminaire: LEDiL Oy F13380_ANGELA-M_(LEP-800-827-C-AC)

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

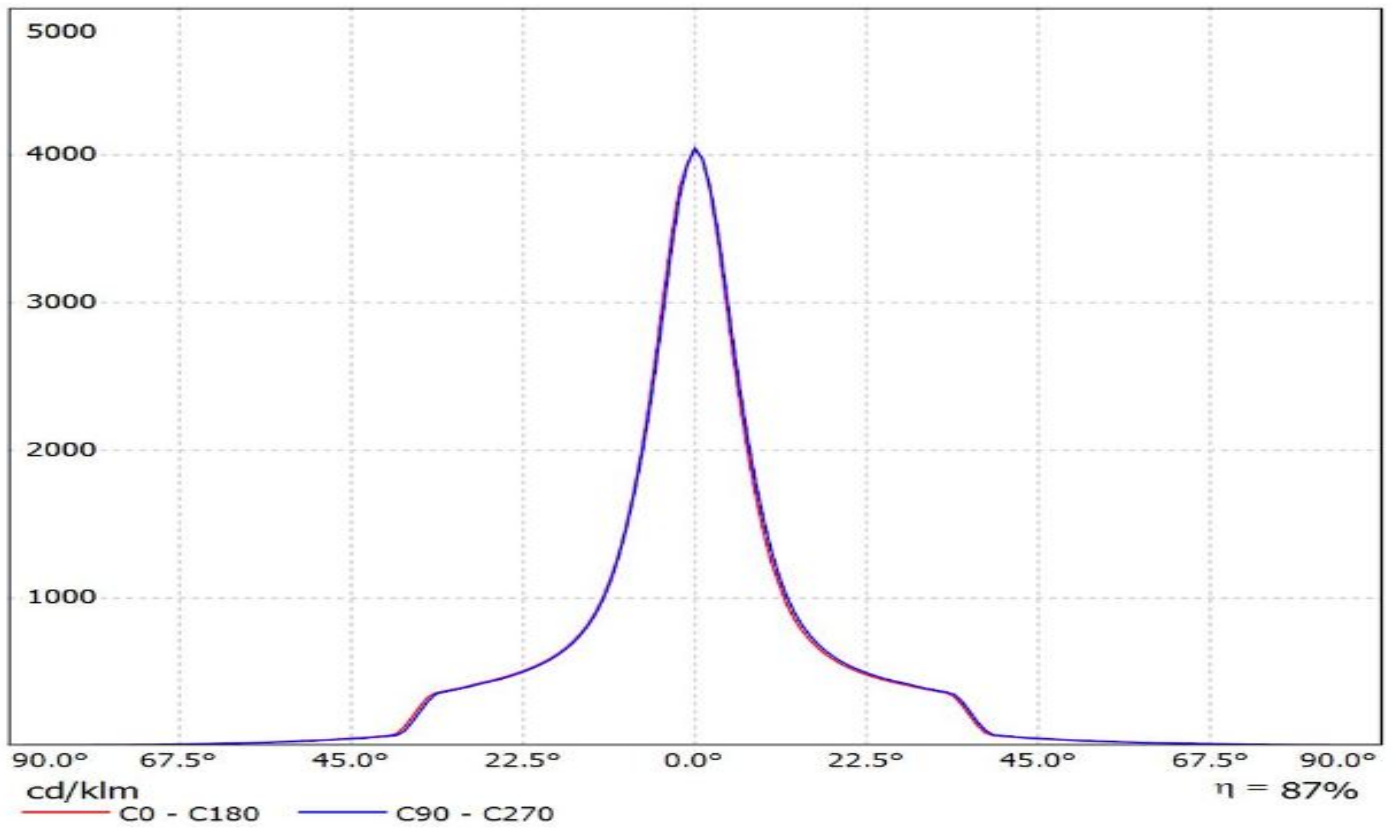


Luminaire: LEDiL Oy F13380_ANGELA-M_(CLL030)
Lamps: 1 x Citizen_CLL030_(CLL030-1206A1-303M1A2)_971.531lm@250mA_P=8.42026W_I=249.8mA

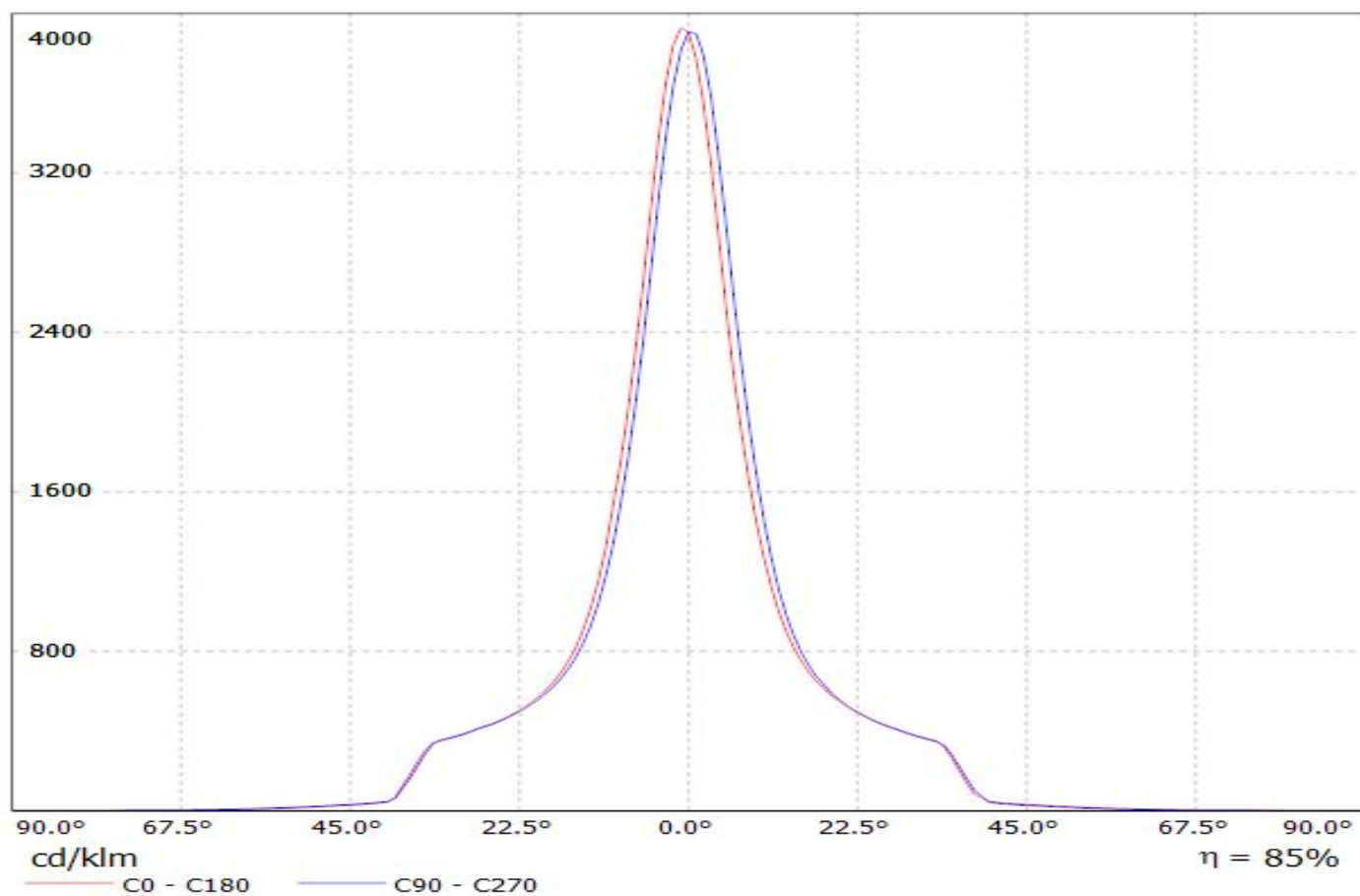


Ledil F13380_ANGELA-M_(CLU720) / LDC (Linear)

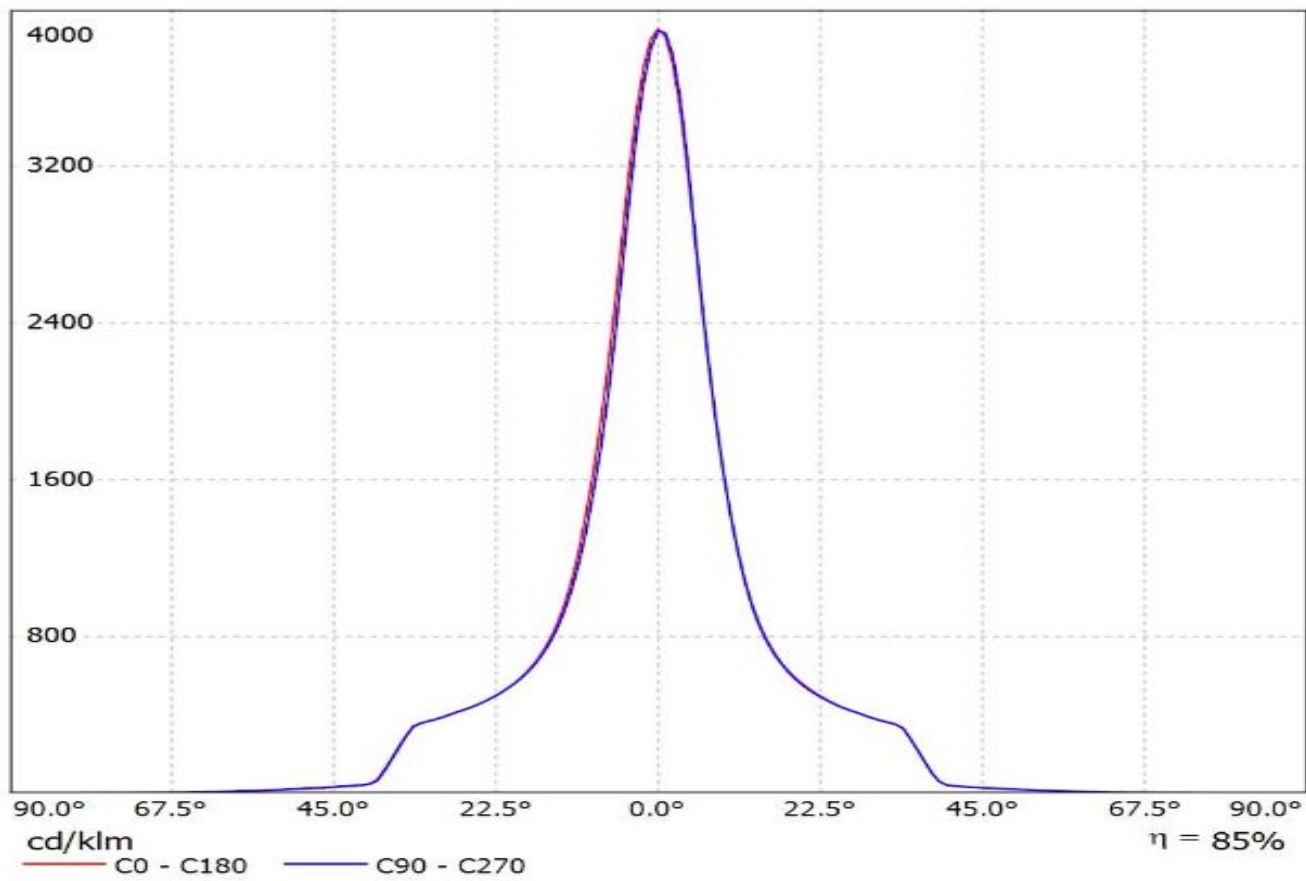
Luminaire: Ledil F13380_ANGELA-M_(CLU720)
Lamps: 1 x CITIZEN_CLU720_(CLU720-1206B8-273M2)
_1344.79lm@250mA_CCT=2700K_P=8.35W_I=0.25A



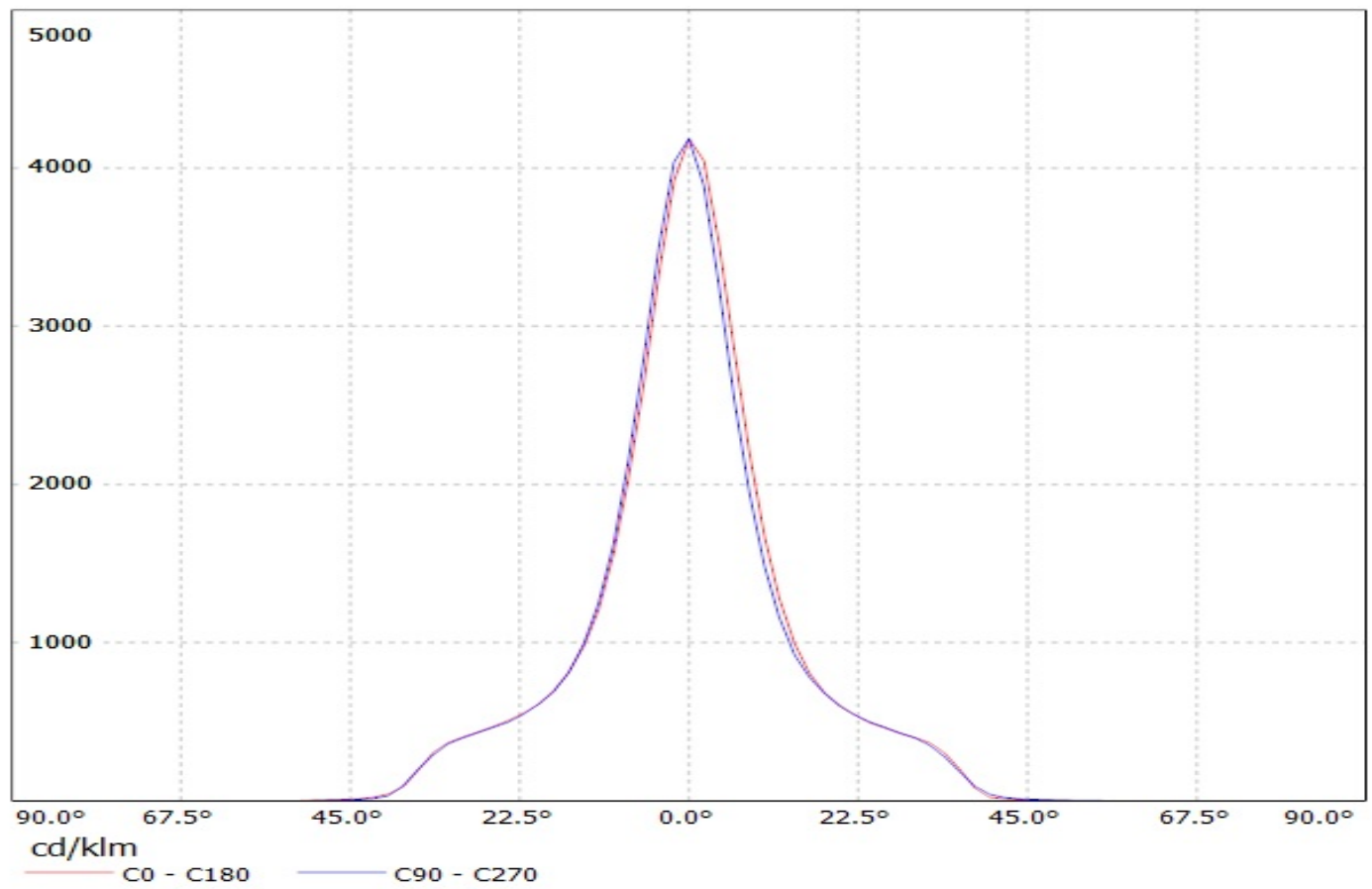
Luminaire: LEDiL Oy F13380_ANGELA-M_(COB_1205) Eff.85.3%
Lamps: 1 x Luxeon_COB_1205_1092.75lm@250mA_P=8.33092W_I=249.9mA



Luminaire: LEDiL Oy F13380_ANGELA-M_(SOLERIQ_P13)
Lamps: 1 x SOLERIQ_P13_(GW_MAGMB1.EM)_1038.25lm@250mA_CCT=3000K_P=8.77223W_I=249.8mA

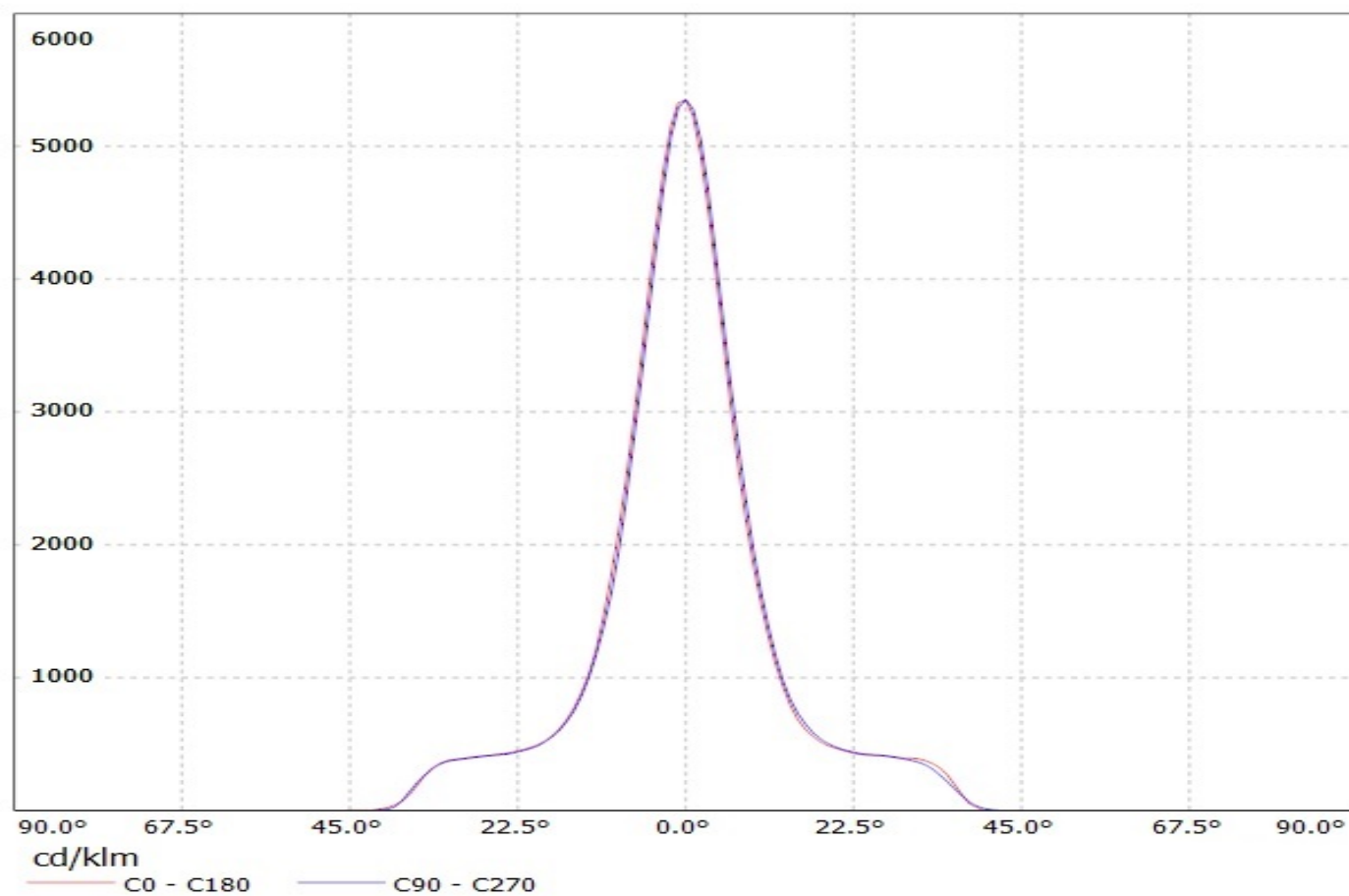


Luminaire: LEDil Oy F13380_ANGELA-M_(Soleriq_S13) Efficiency=86%
Lamps: 1 x Osram Soleriq S13 (GW KAGHB1.EM) 855lm @ 250mA CCT=3100K P=7.4W I=250mA



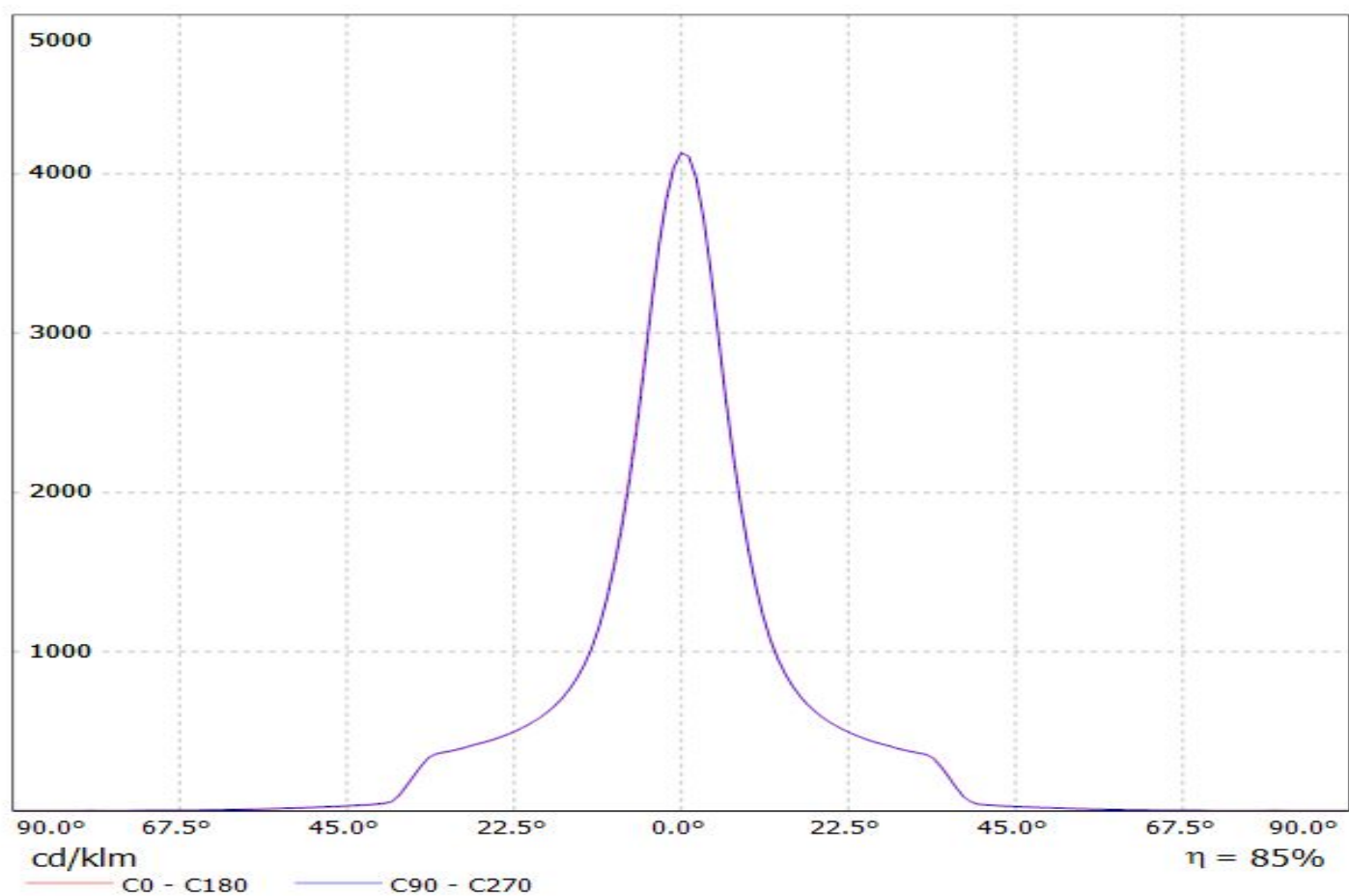
Luminaire: LEDil Oy F13380_ANGELA-M_(NFCxL060B)

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

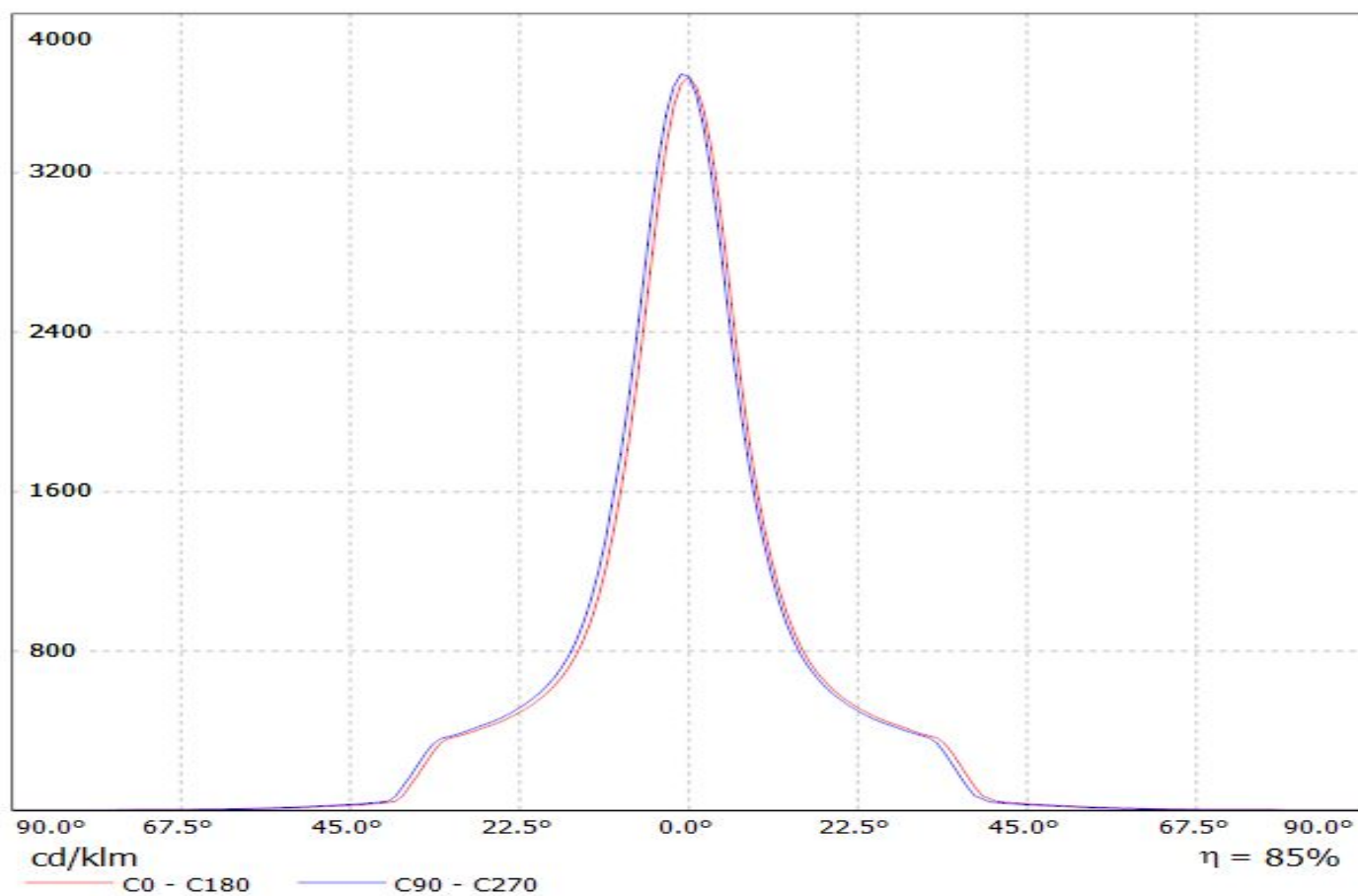


Luminaire: LEDiL Oy F13380_ANGELA-M_(Fortimo LED SLM L13 G4)

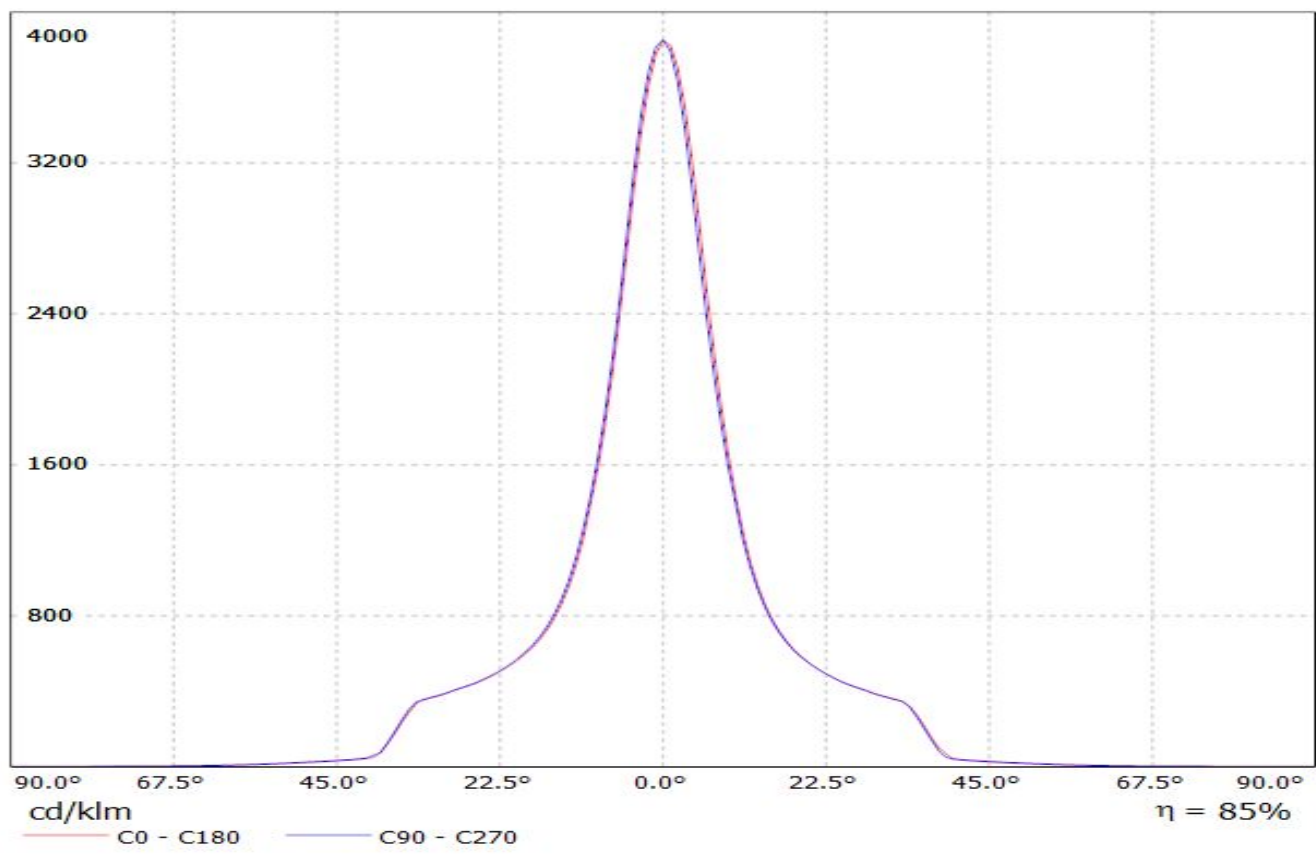
Lamps: 1 x Fortimo LED SLM L13 G4_1030.19lm@250mA_P=8.38104W_I=0.2498A



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

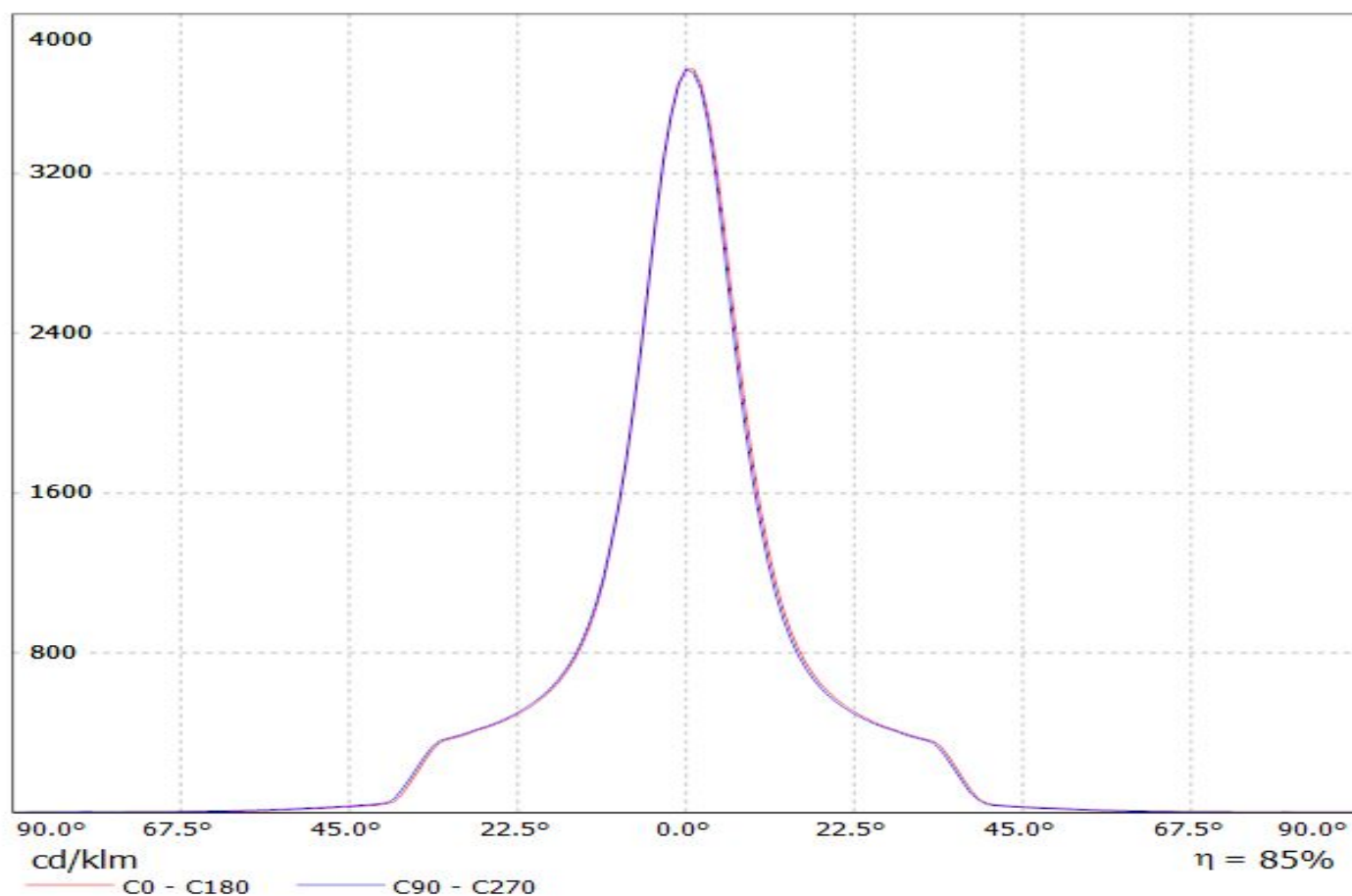


Luminaire: LEDiL Oy F13380_ANGELA-M_(CXM-14)
Lamps: 1 x LUMINUS_CXM-14_1114.36lm@250mA_P=8.36106W_I=249.8mA

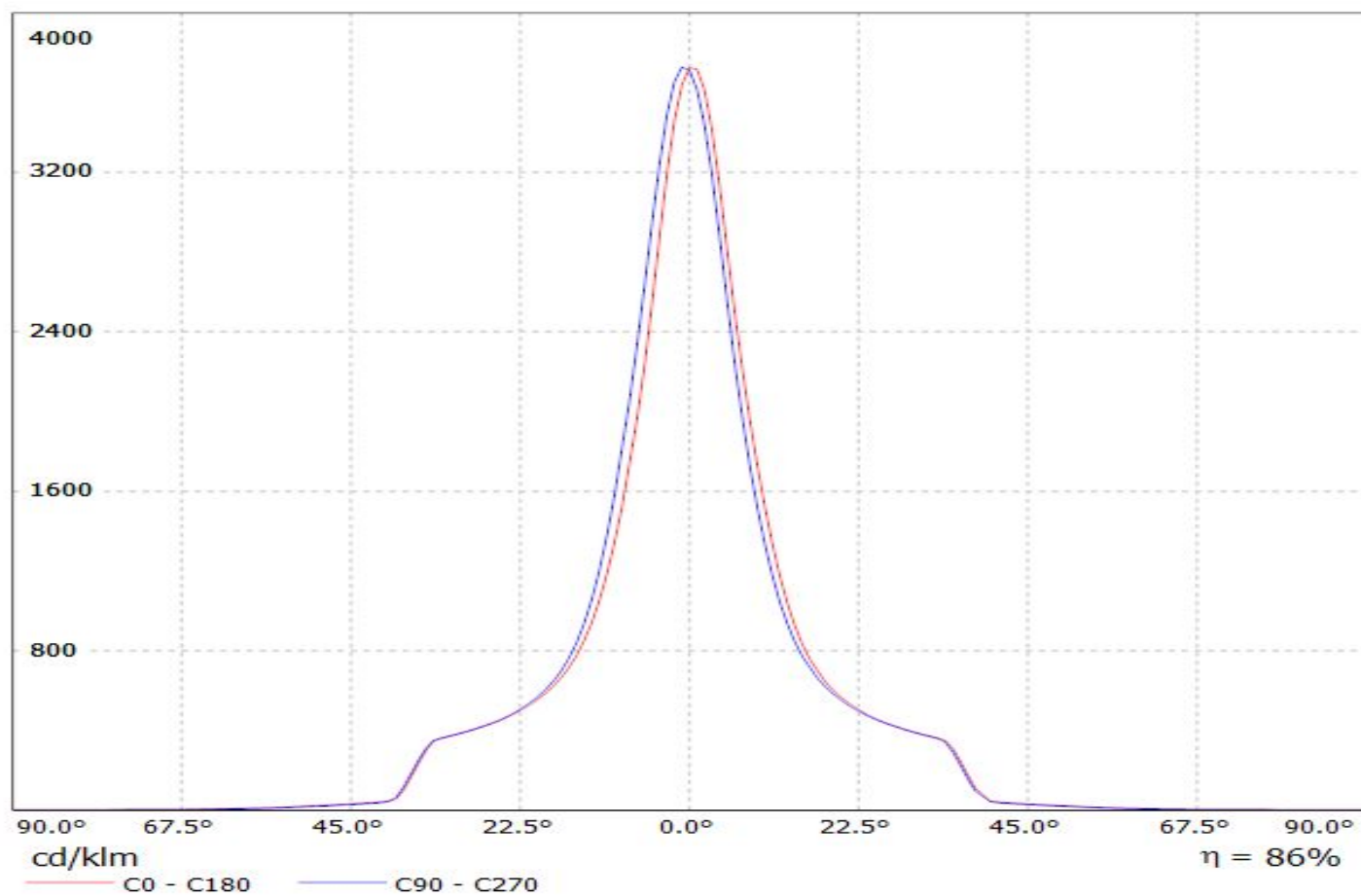


Luminaire: LEDiL Oy F13380_ANGELA-M_(Fortimo LED SLM L15 G4)

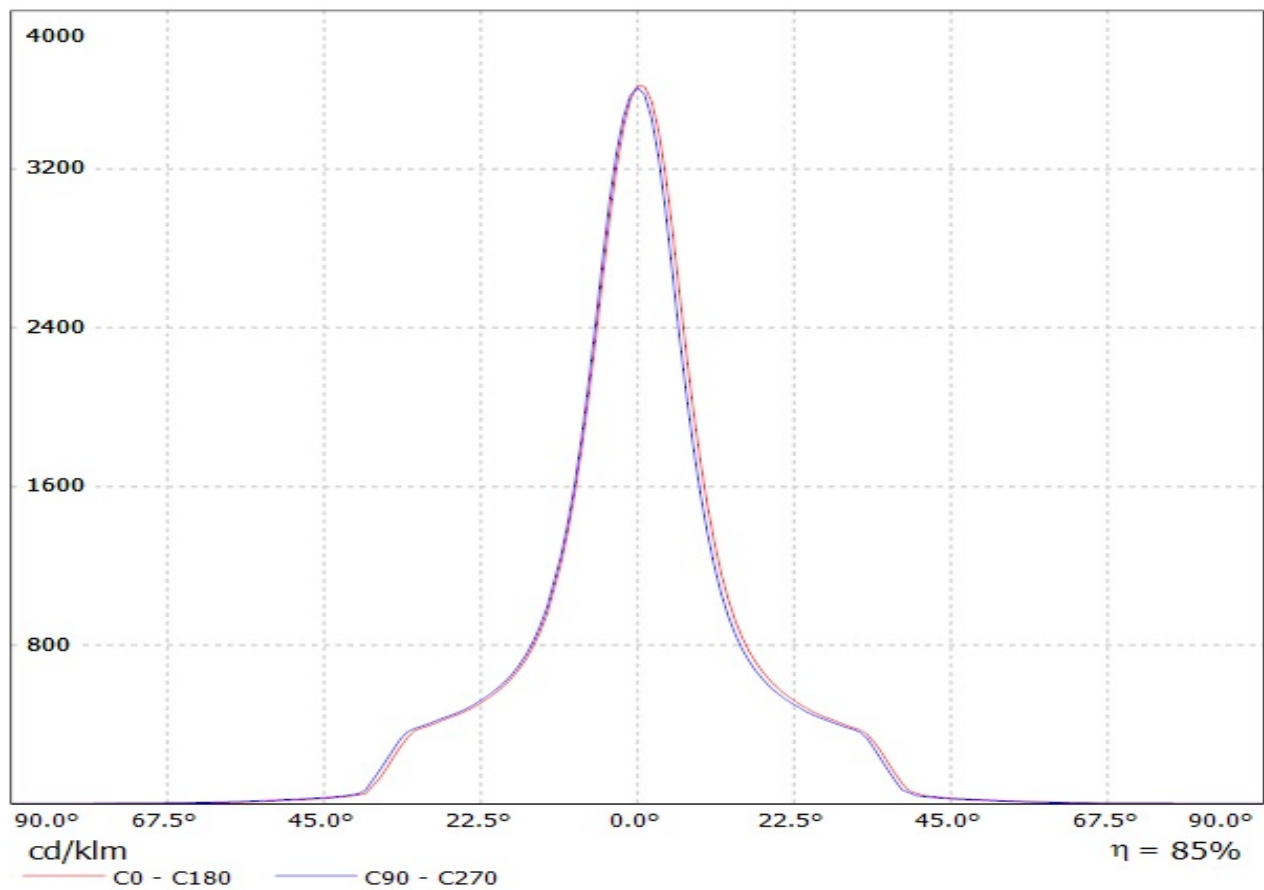
Lamps: 1 x Fortimo LED SLM L15 G4_1116.47lm@250mA_P=8.21168W_I=0.2498A



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

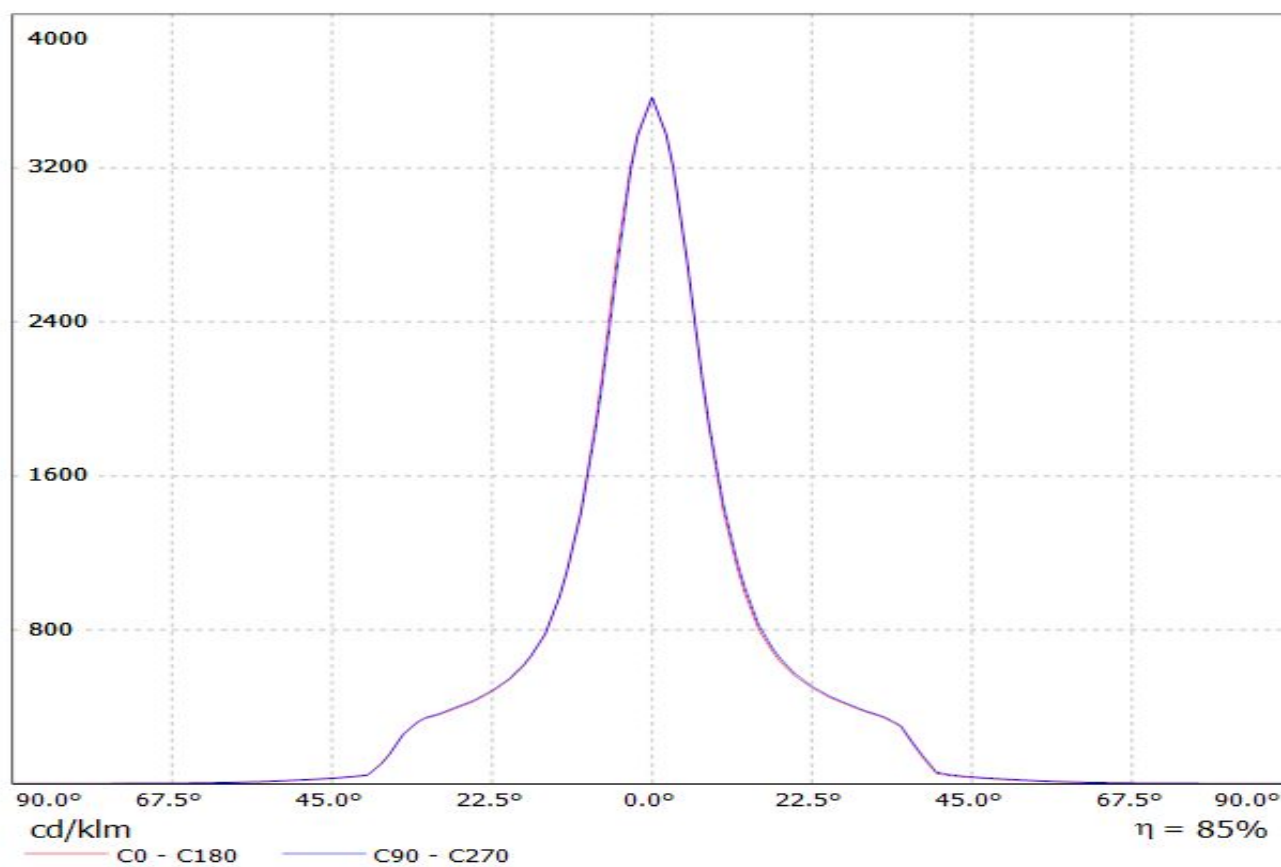


Luminaire: LEDiL Oy F13380_ANGELA-M_(PrevaLED_Z4) Eff:85%
Lamps: 1 x Osram_PrevaleLED_CORE_Z4_(PL-CORE-3000-830-Z4)_1423.93lm@250mA_P=10.7652W_I=249.9mA

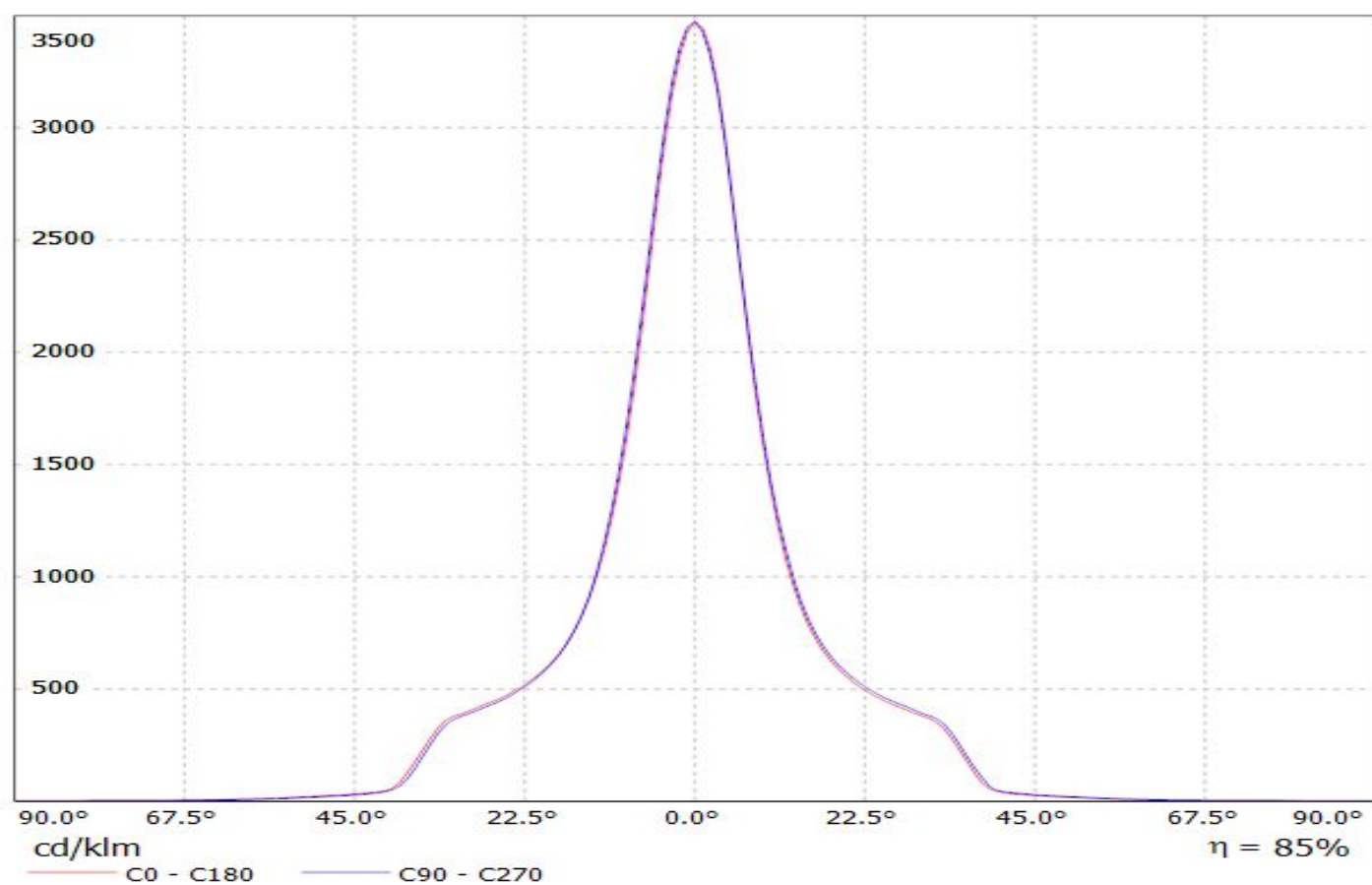


Luminaire: LEDiL Oy F13380_ANGELA-M_(WU-M-484)

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

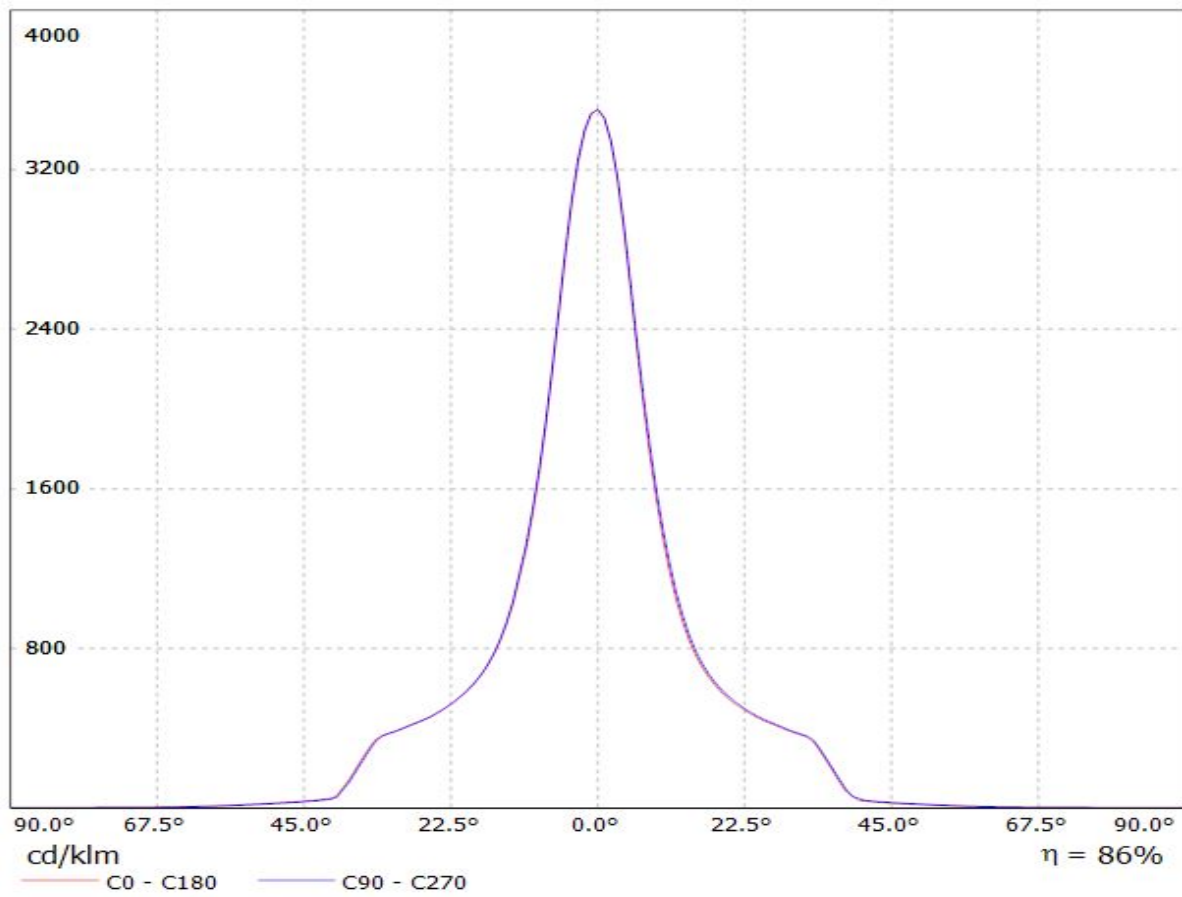


Luminaire: LEDiL Oy F13380_ANGELA-M_(PrevaLED_LES19)
Lamps: 1 x Osram_PrevaLED_CORE_Z3_LES19_(PL-CORE-2000-830-Z3)
_1356.73lm@250mA_P=10.5228W_I=249.9mA

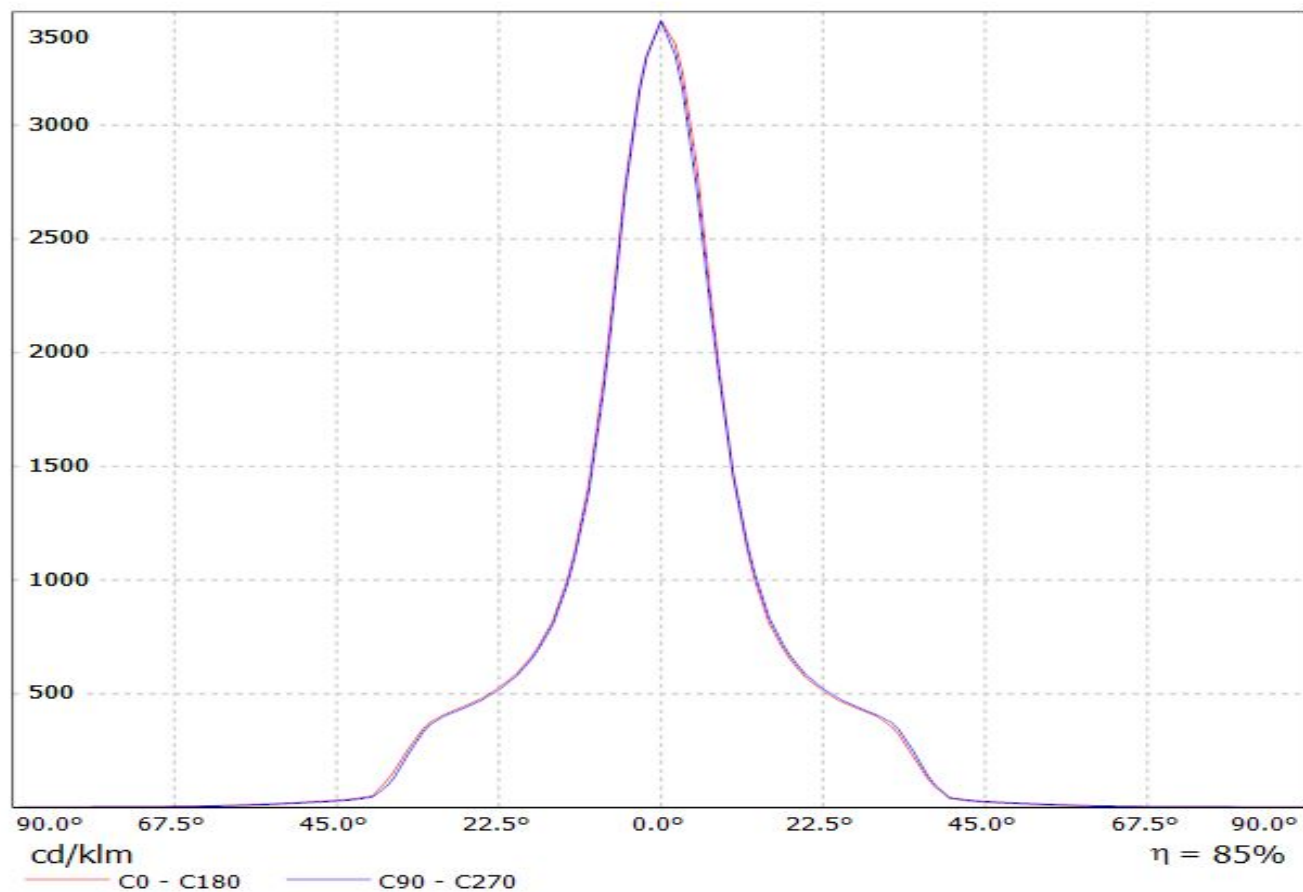


Luminaire: LEDiL Oy F13380_ANGELA-M_(SOLERIQ_S19_&_TE_2213407-2)

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

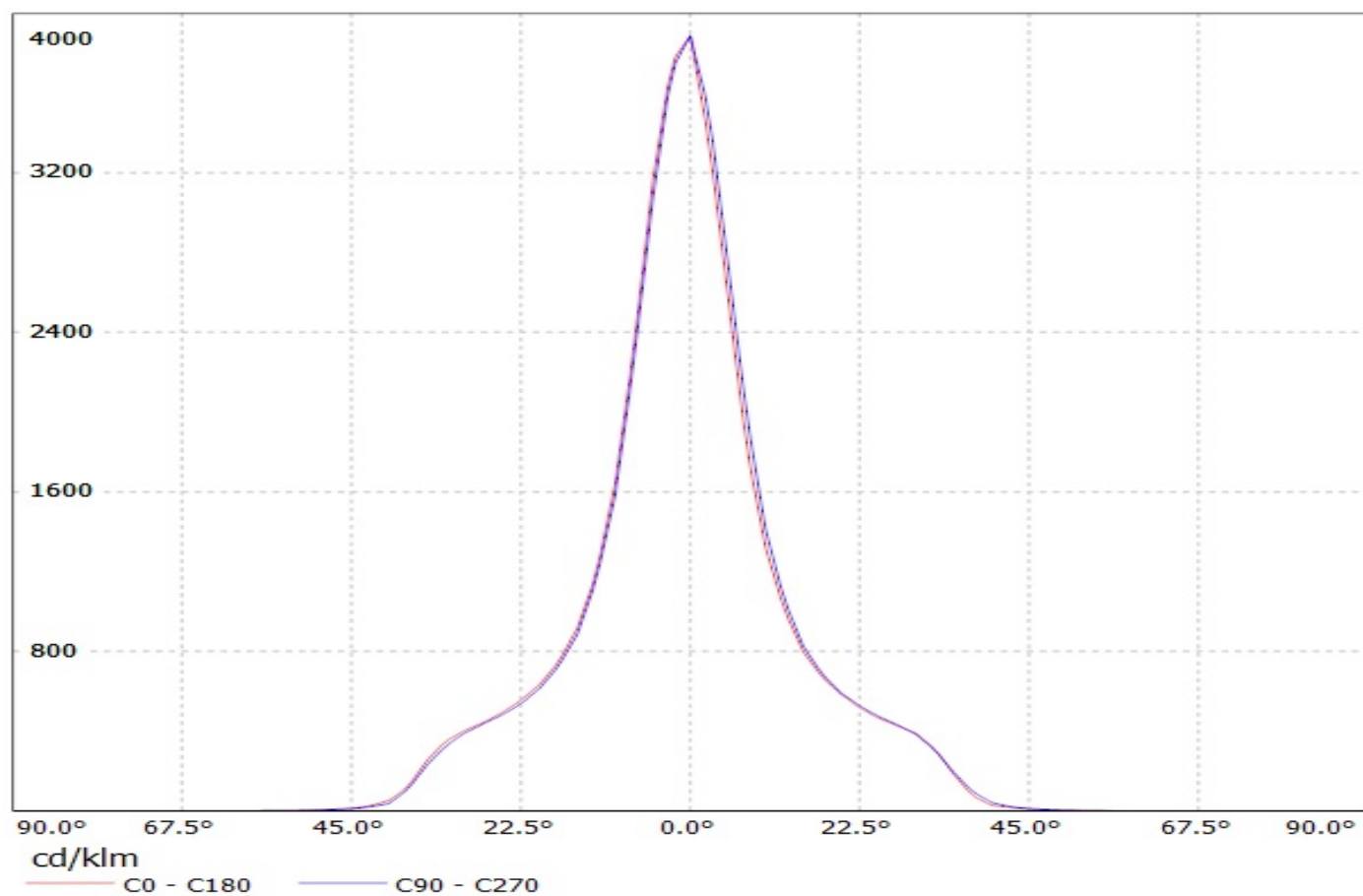


Luminaire: LEDiL Oy F13380_ANGELA-M_(LEP-2000-827-C-AC)
Lamps: 1 x OSRAM PrevaLED Core AC (LEP-2000-827-C-AC)

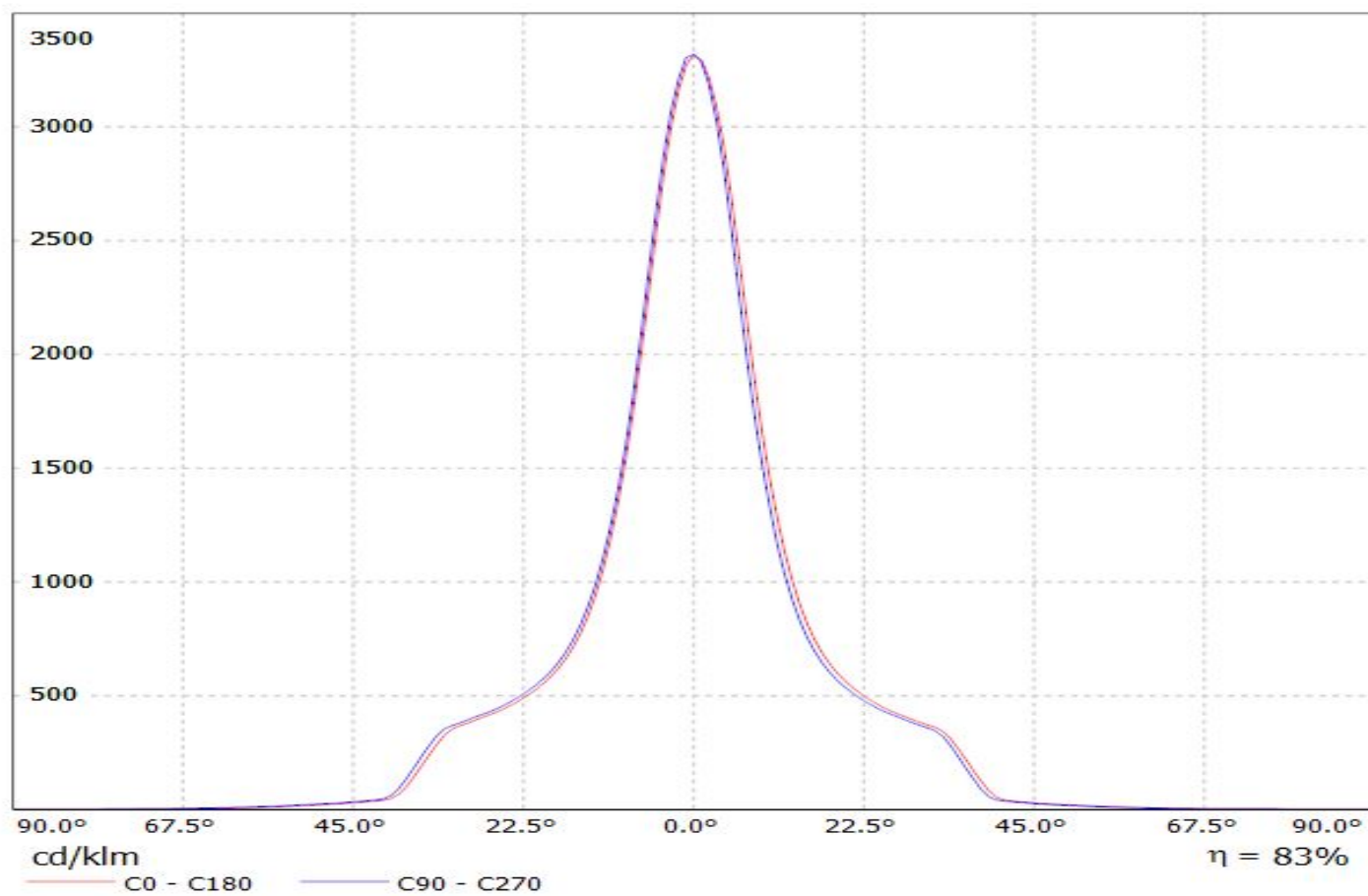


Luminaire: LEDil Oy F13380_ANGELA-M_(NFDxJ130B)

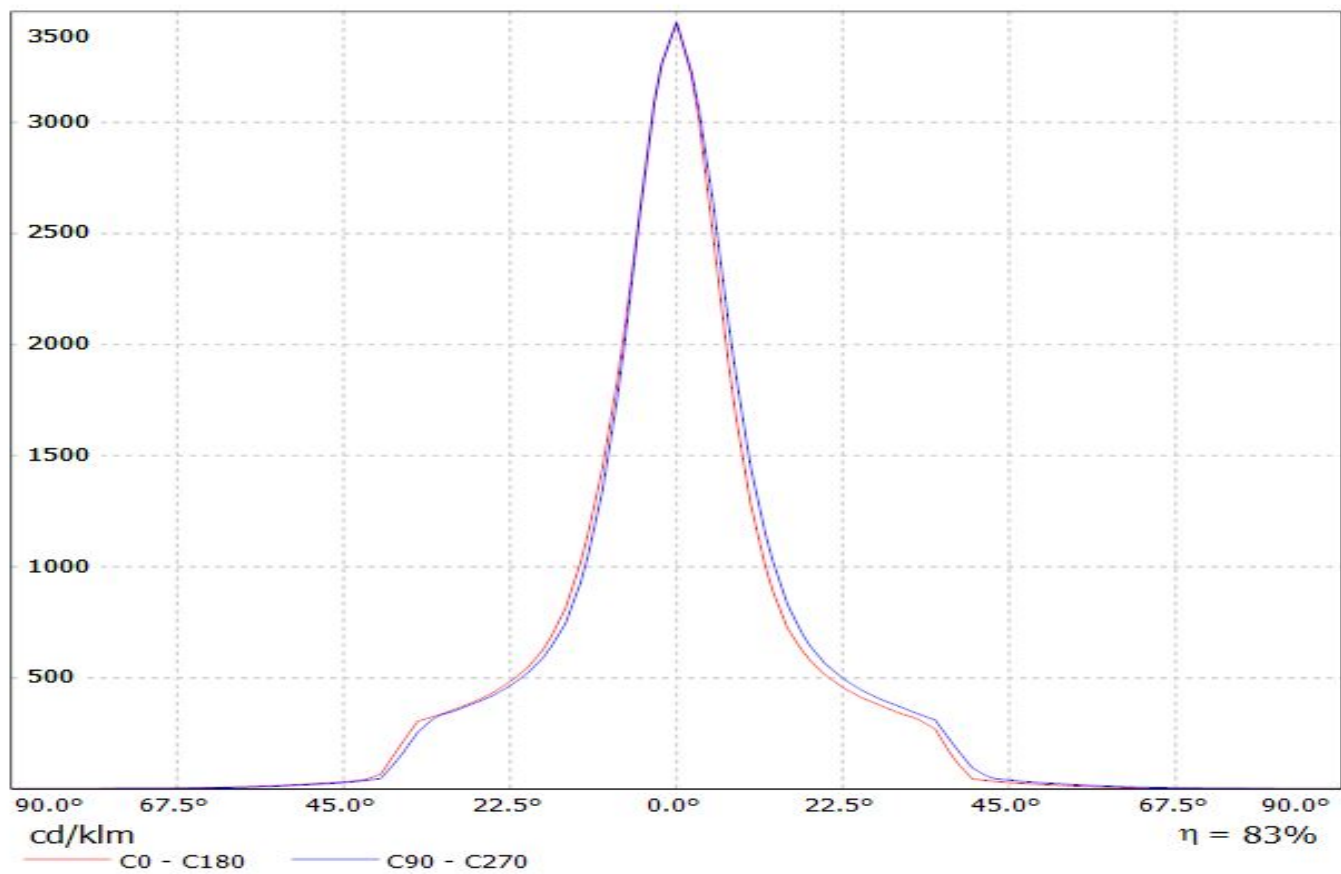
Lamps: 1 x Nichia NFDxJ130B (SM403G6450R8000) 1410.46lm @ 250mA P=8.9W I=250mA



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

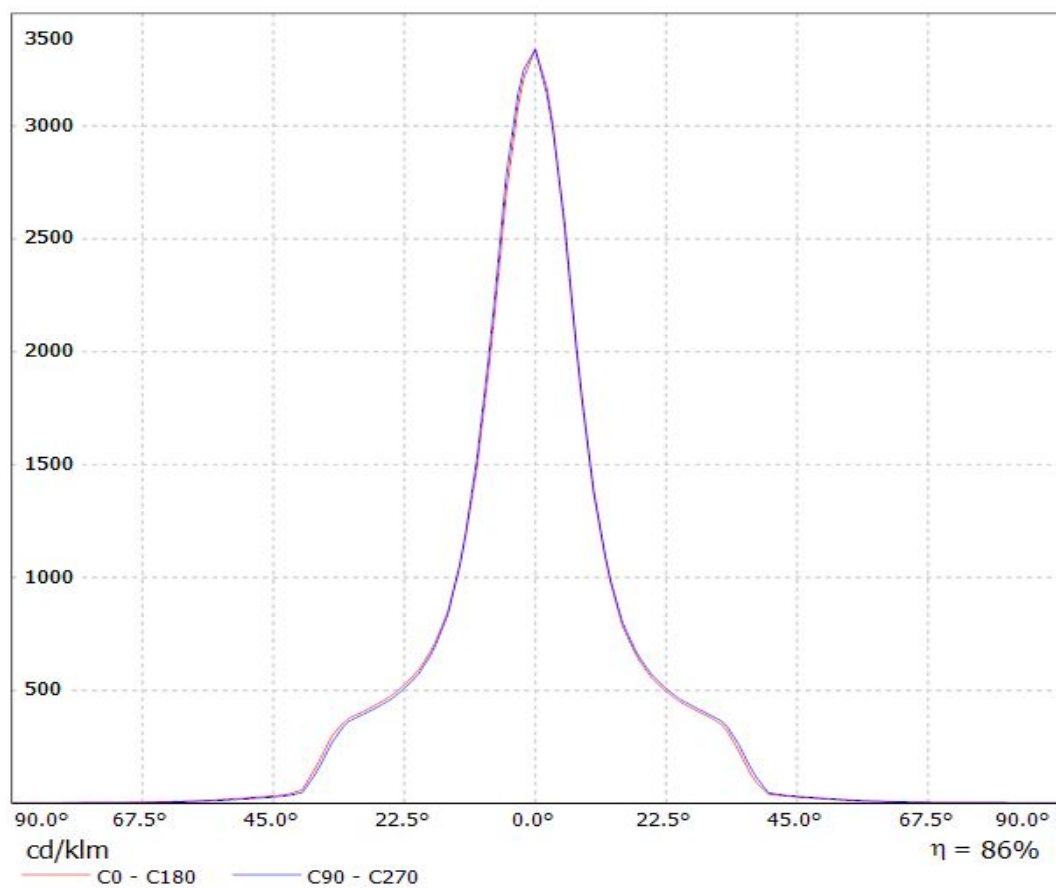


Luminaire: LEDiL Oy F13380_ANGELA-M (WU-M-461-827)
Lamps: 1 x Vossloh_WU-M-461-827_785.152lm@250mA_P=6.30695W_I=249.8mA

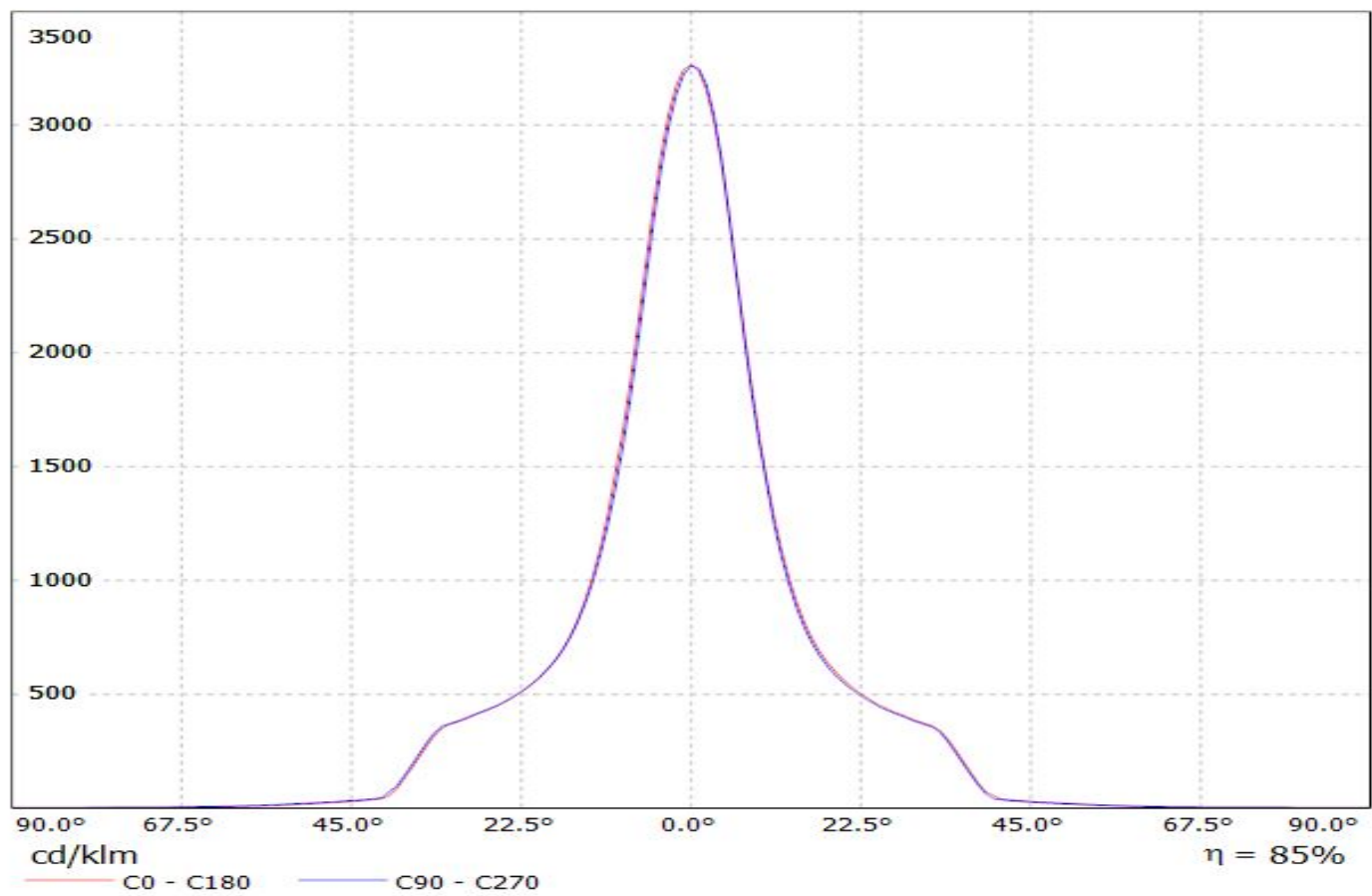


Luminaire: LEDiL Oy F13380_ANGELA-M_(STARK_LES19)

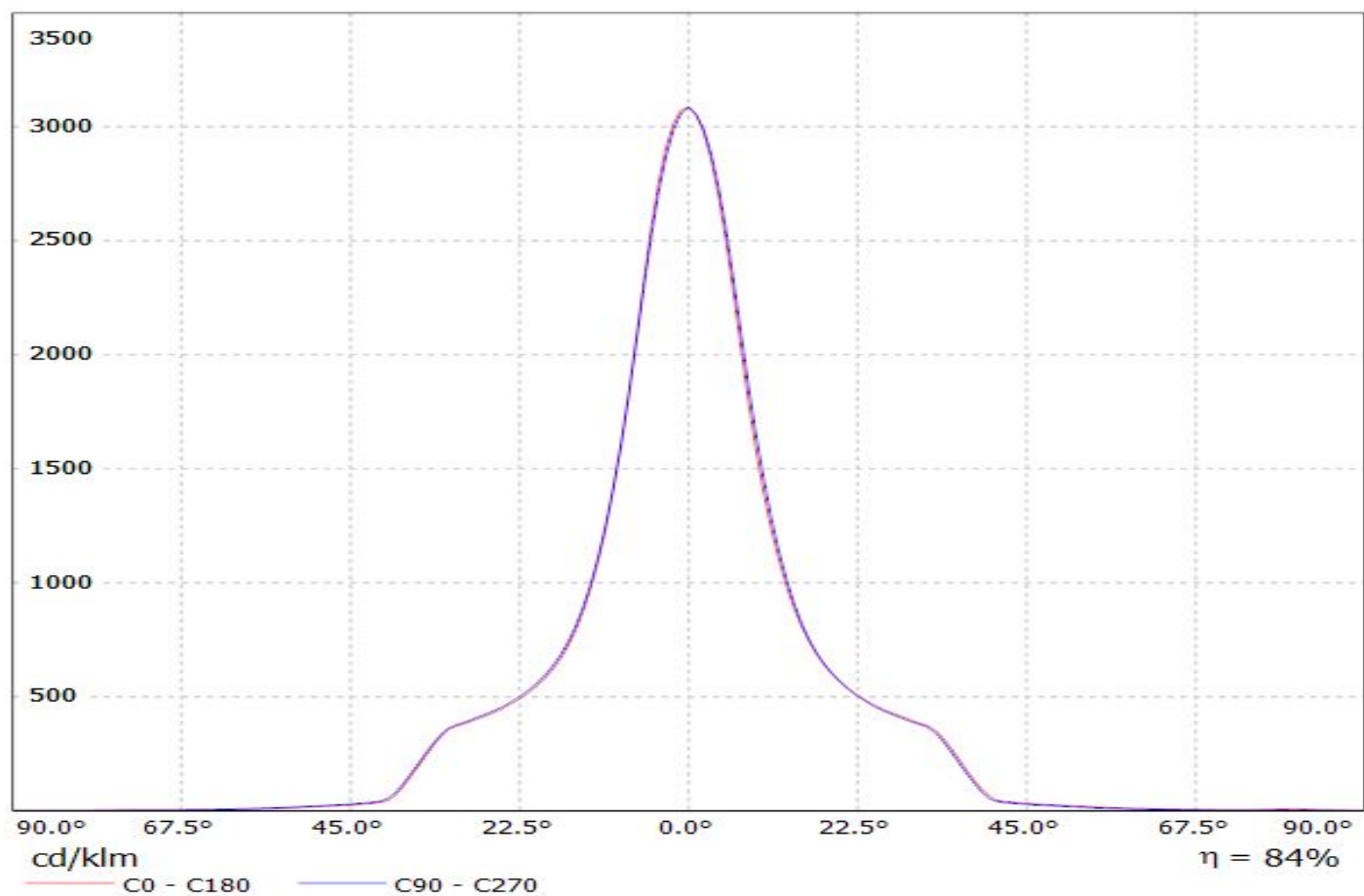
Lamps: 1 x Tridonic_STARK_SLE_G3_LES19_(Stark-SLE-PURE-G3-19-2000-840-CLA)_1050.59lm@250mA_P=8.3639W_I=249.9mA



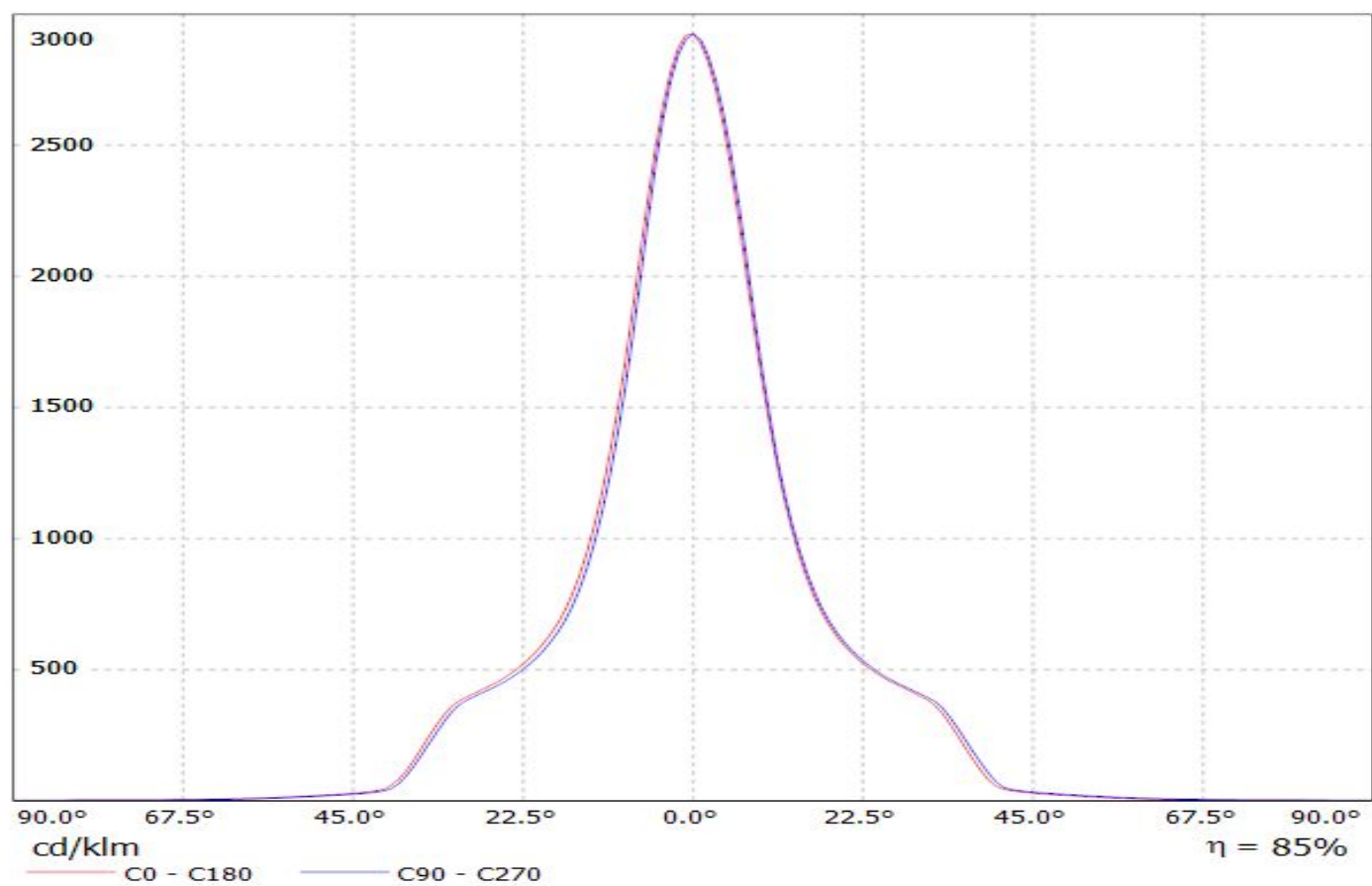
Luminaire: LEDiL Oy F13380_ANGELA-M_(COB-LC026B) Eff.85.2%
Lamps: 1 x SAMSUNG_COB-LC026B_(SPHWWTHDNC25YHV52F)
_1122.94lm@250mA_P=8.2479W_I=249.8mA



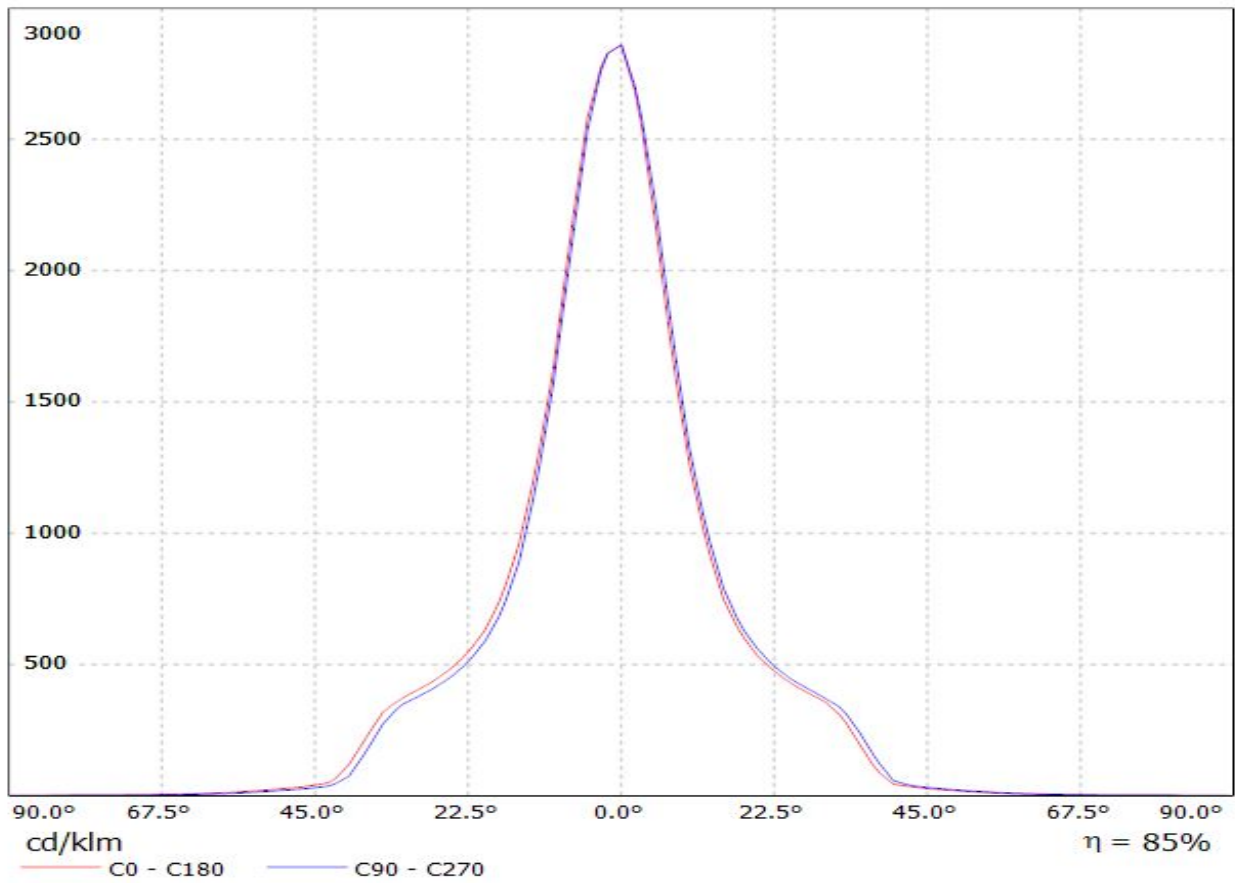
Luminaire: LEDiL Oy F13380_ANGELA-M_(Fortimo LED SLM L19 G4)
Lamps: 1 x Fortimo LED SLM L19 G4_1114.89lm@250mA_P=8.04906W_I=0.2498A



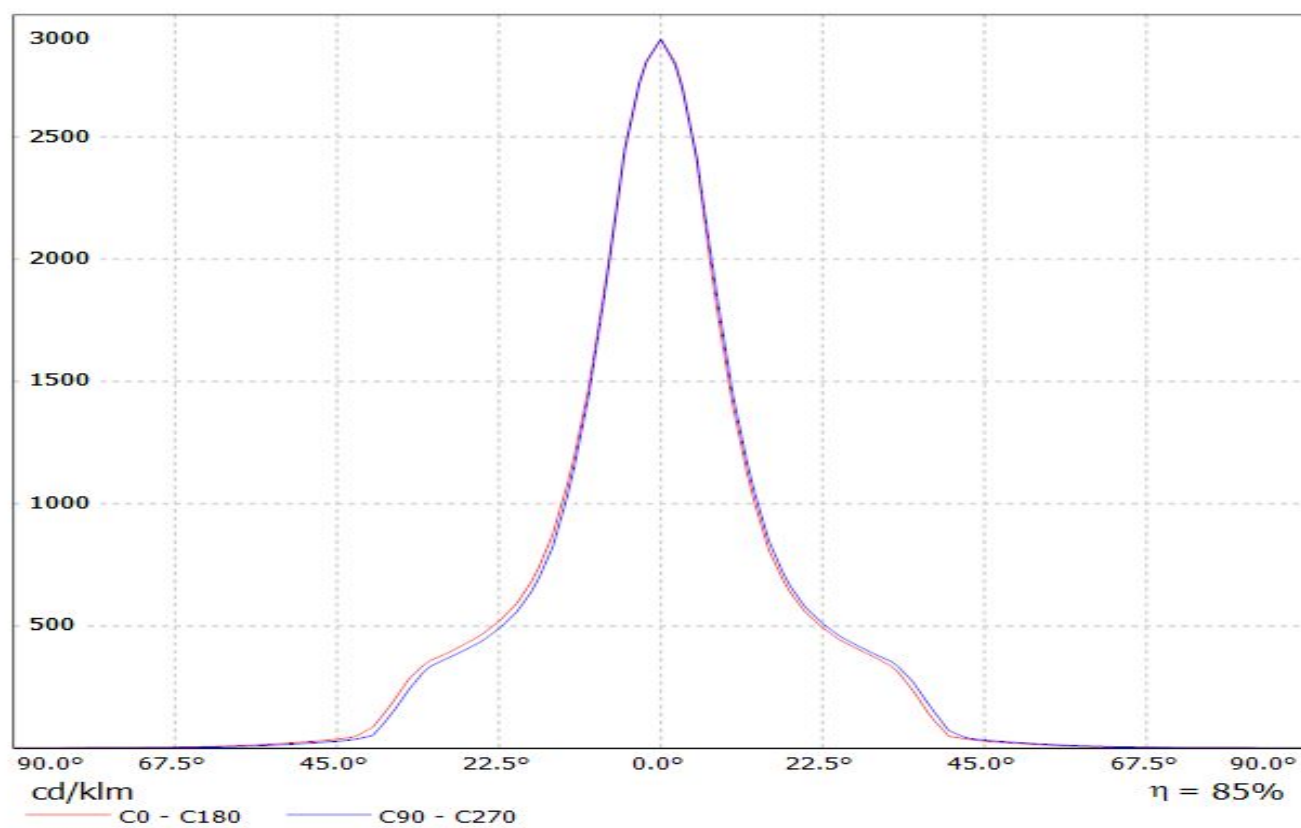
Luminaire: LEDiL Oy F13380_ANGELA-M_(PrevaLED_LES23)
Lamps: 1 x Osram_PrevaleLED_Core_Z3_LES23_(PL-CORE-5000-930-Z3)
_1130.05lm@250mA_P=10.0097W_I=249.9mA



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

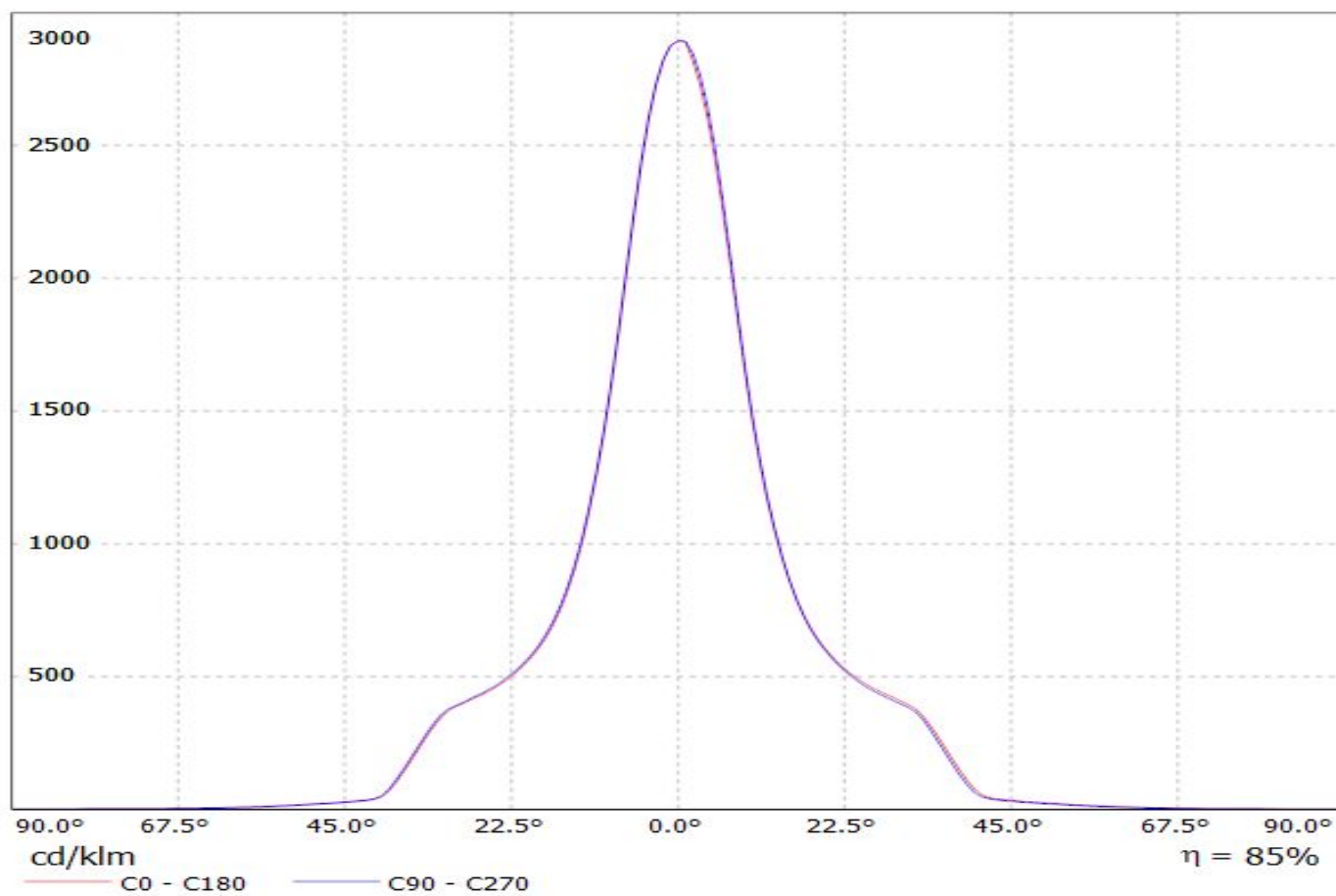


Luminaire: LEDiL Oy F13380_ANGELA-M_(WU-M-486) Eff 84.4%
Lamps: 1 x Vossloh_Schwabe-WU-M-486_(WU-M-486-830)_1474.55lm@250mA_P=10.4456W_I=249.8mA

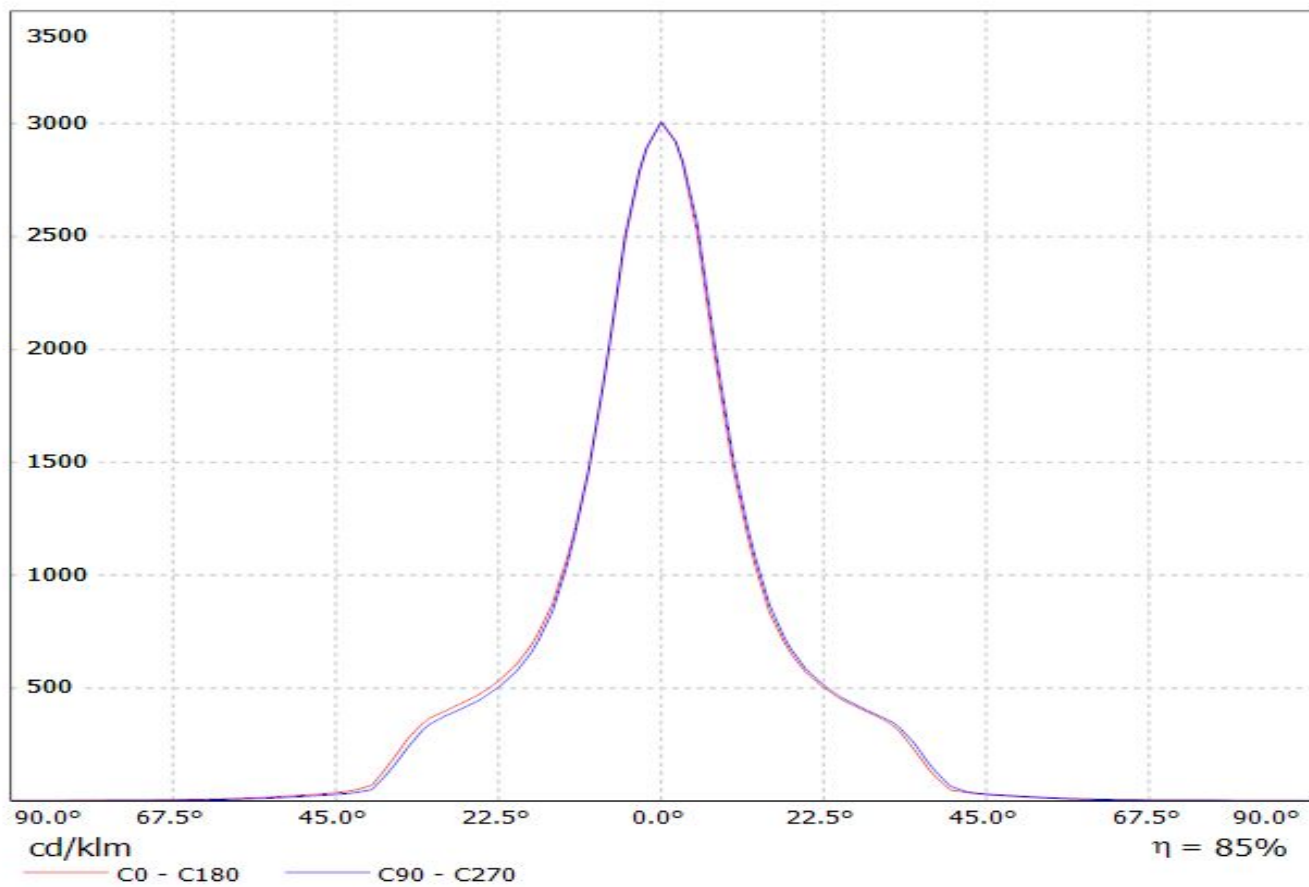


Luminaire: LEDiL Oy F13380_ANGELA-M_(SLE_G4_LES23)

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

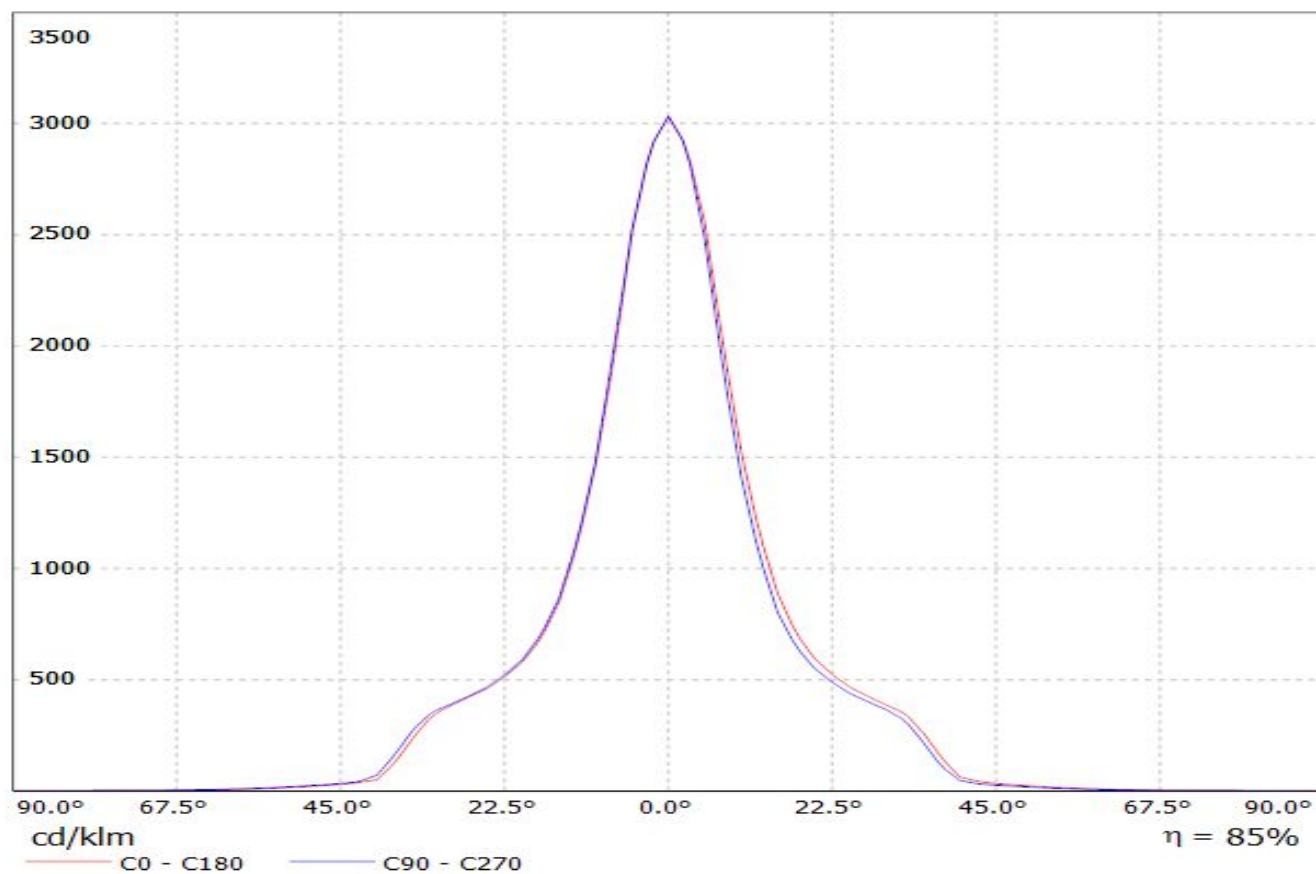


Luminaire: LEDiL Oy F13380_ANGELA-M_(WU-M-462-827)
Lamps: 1 x Vossloh_WU-M-462-827_1116.7lm@250mA_P=8.9943W_I=249.8mA



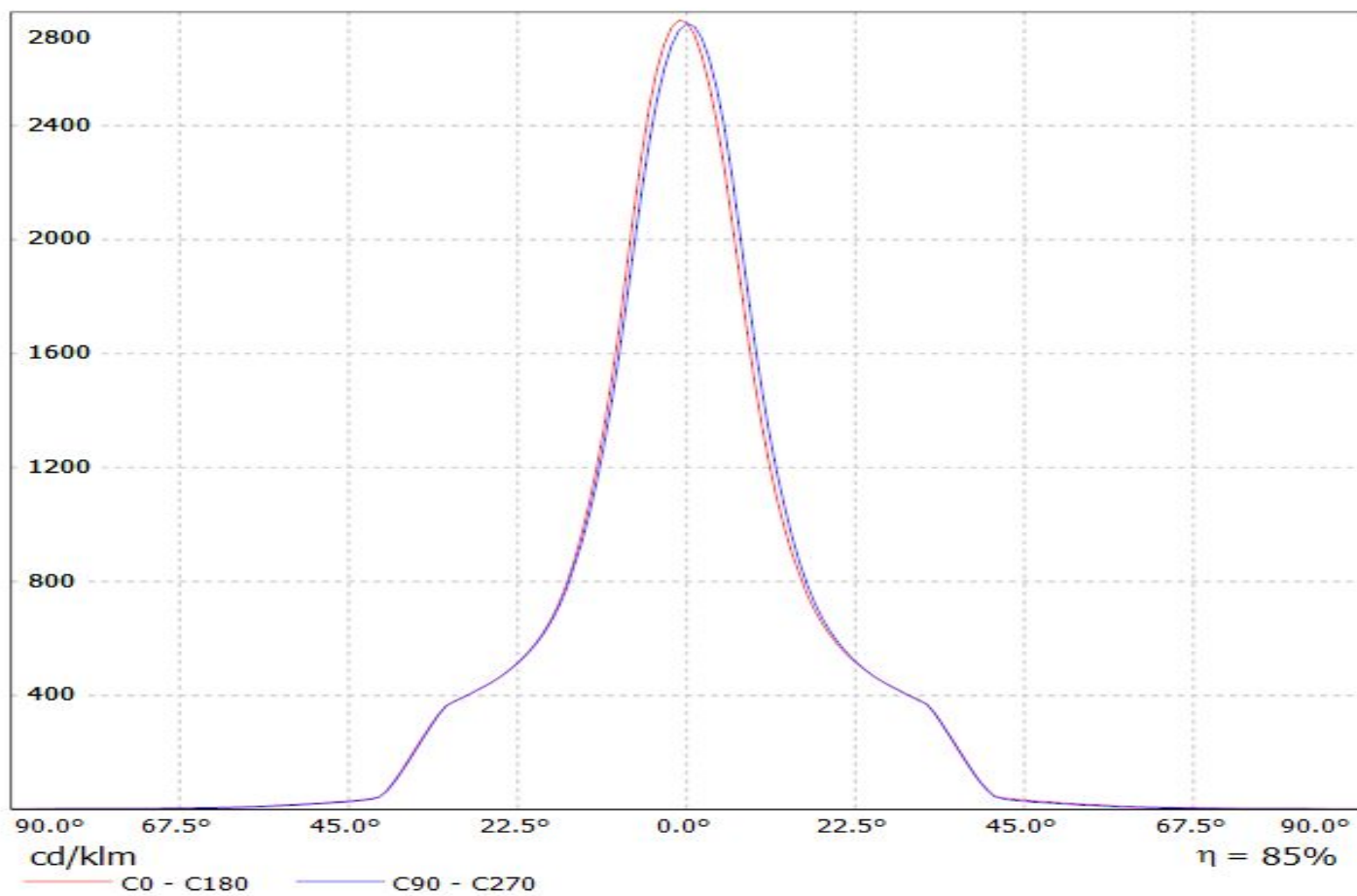
Luminaire: LEDiL Oy F13380_ANGELA-M_(WU-M-464-827)

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



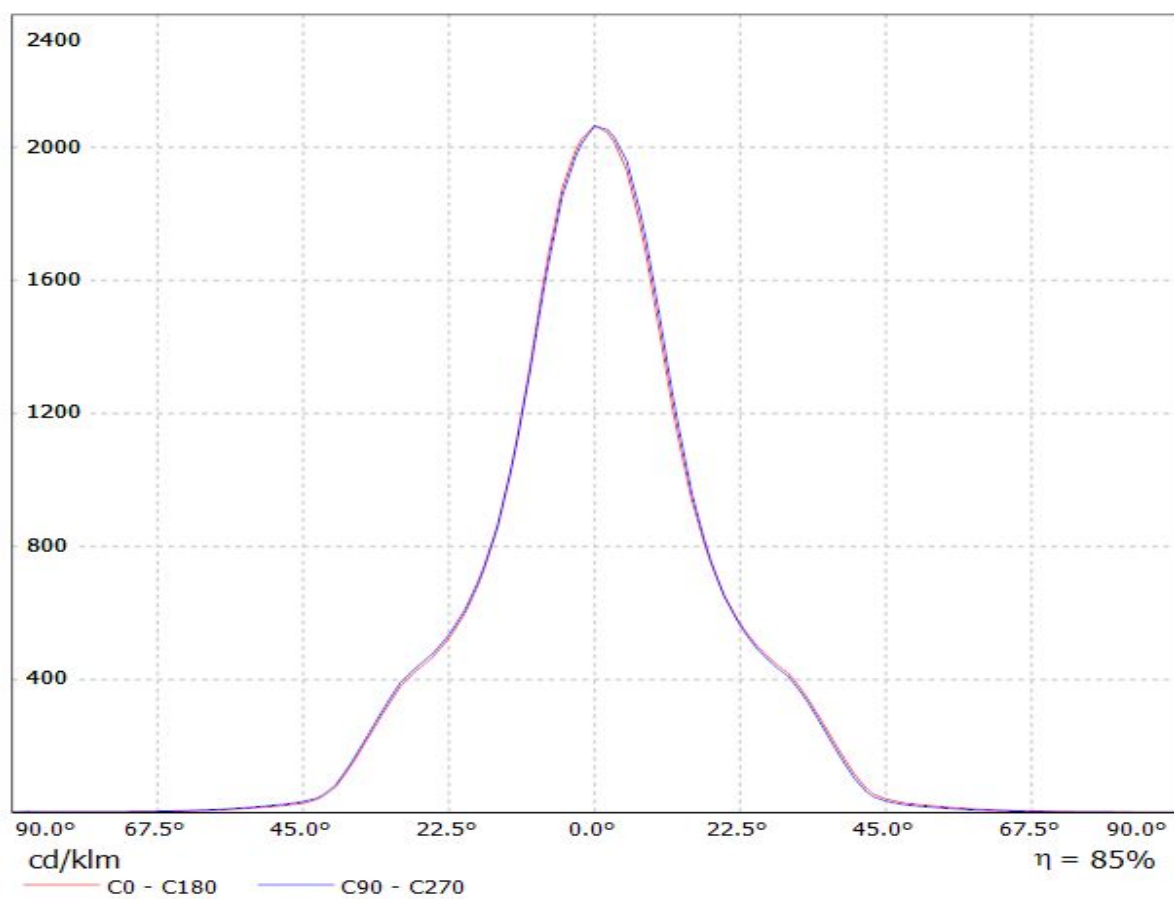
Luminaire: LEDiL Oy F13380_ANGELA-M_(STARK_LES23) Eff. 85.3%

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

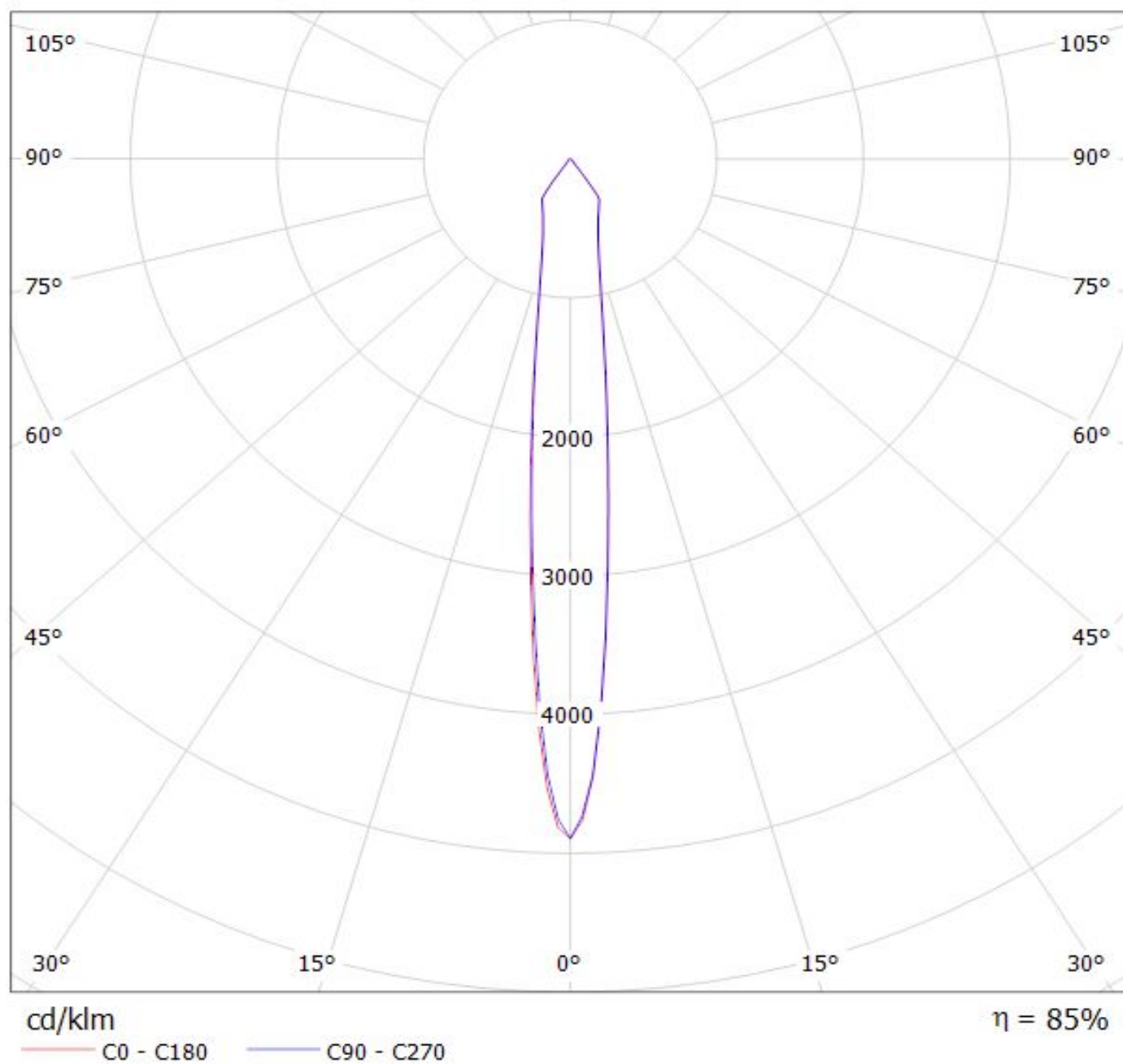


Luminaire: LEDiL Oy F13380_ANGELA-M_(CXA3590)

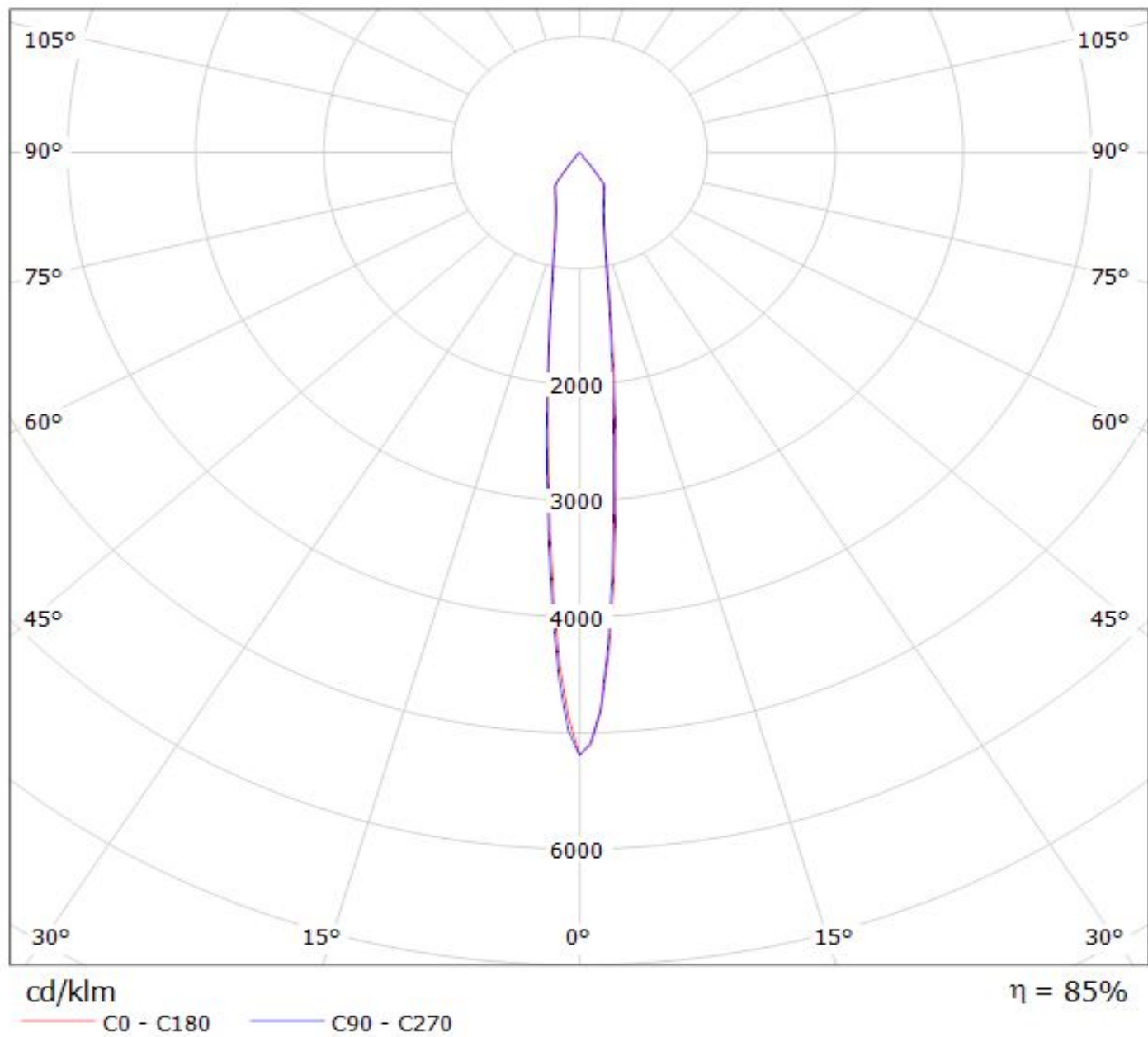
Lamps: 1 x CREE_CXA3590_(CXA3590-30F-BD-R0H-0002)_2640.14lm@250mA_CCT=3000K_P=16.3941W_I=249.8mA



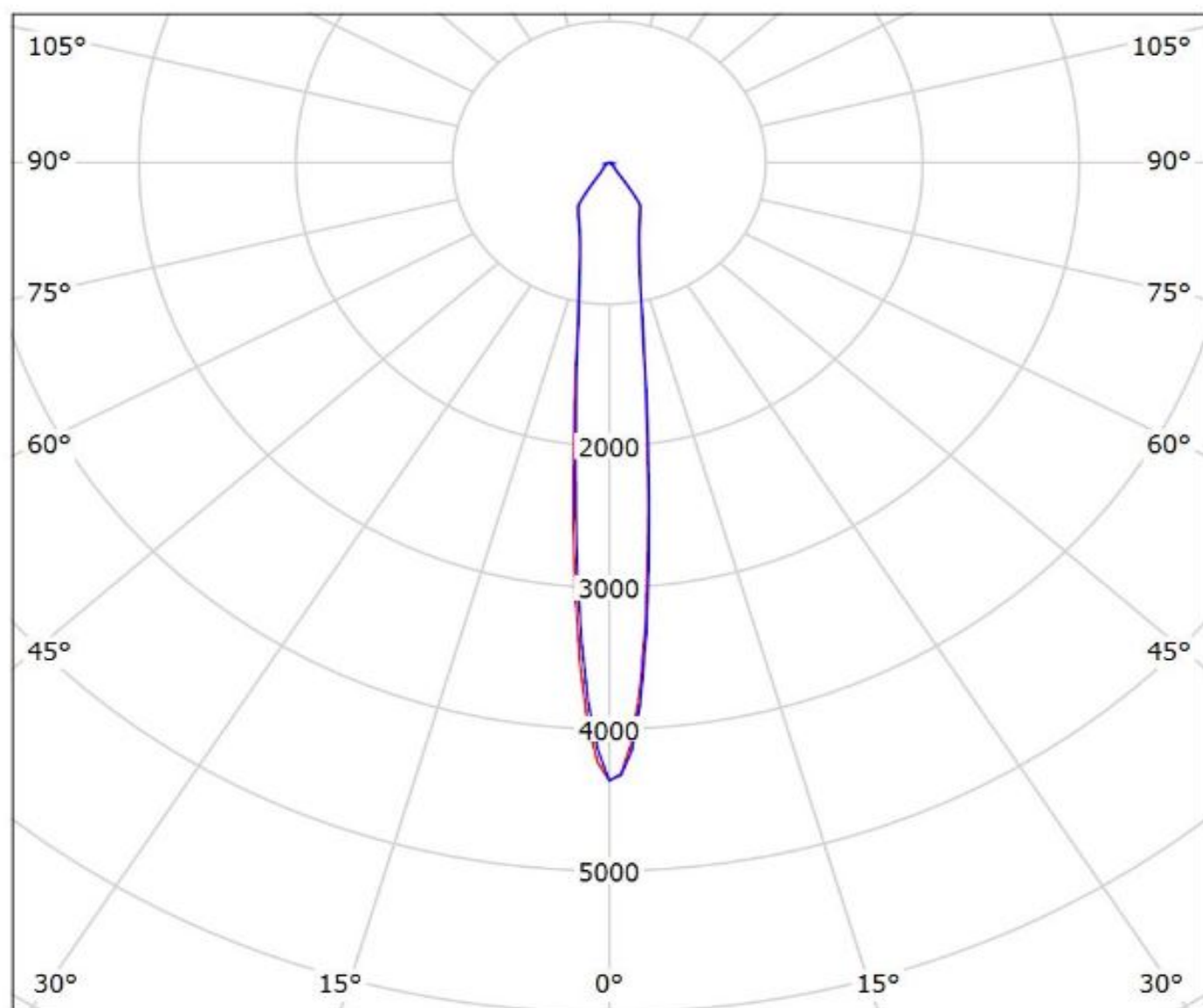
Luminaire: LEDiL Oy F13380_ANGELA-M_(Fortimo LED SLM 1100 lm 830 L9 G4)
Lamps: 1 x Fortimo LED SLM 1100 lm 830 L9 G4_1021.27lm@250mA_P=9.2431W_I=0.2498A



Luminaire: LEDiL Oy F13380_ANGELA-M_(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 FF13380_ANGELA-M_(CLU720)
Lamps: 1 x CITIZEN_CLU720_(CLU720-1206B8-273M2)
_1337.27lm@250mA_CCT=2700K_P=8.35W_I=0.25A



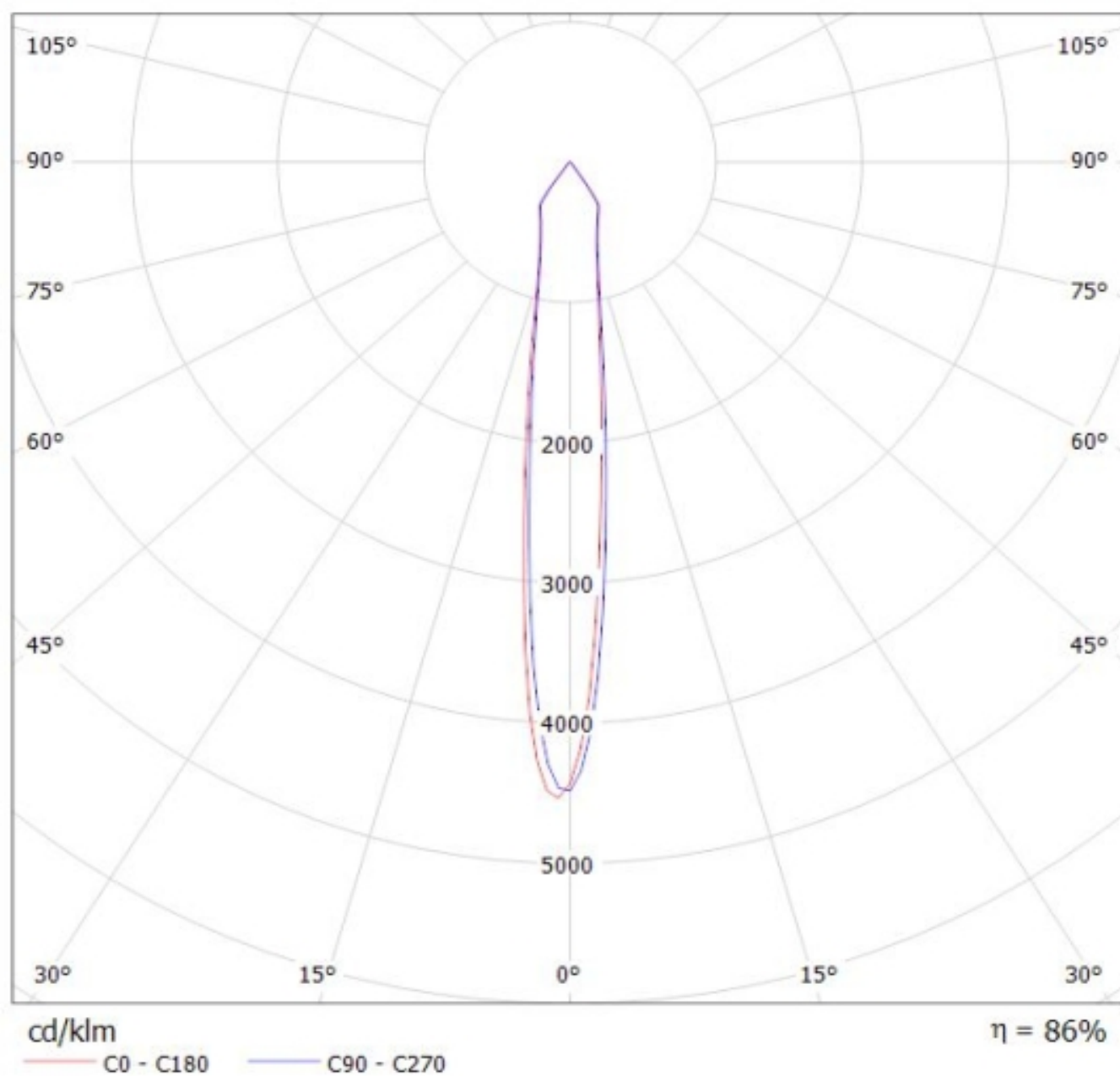
cd/klm

— C0 - C180

— C90 - C270

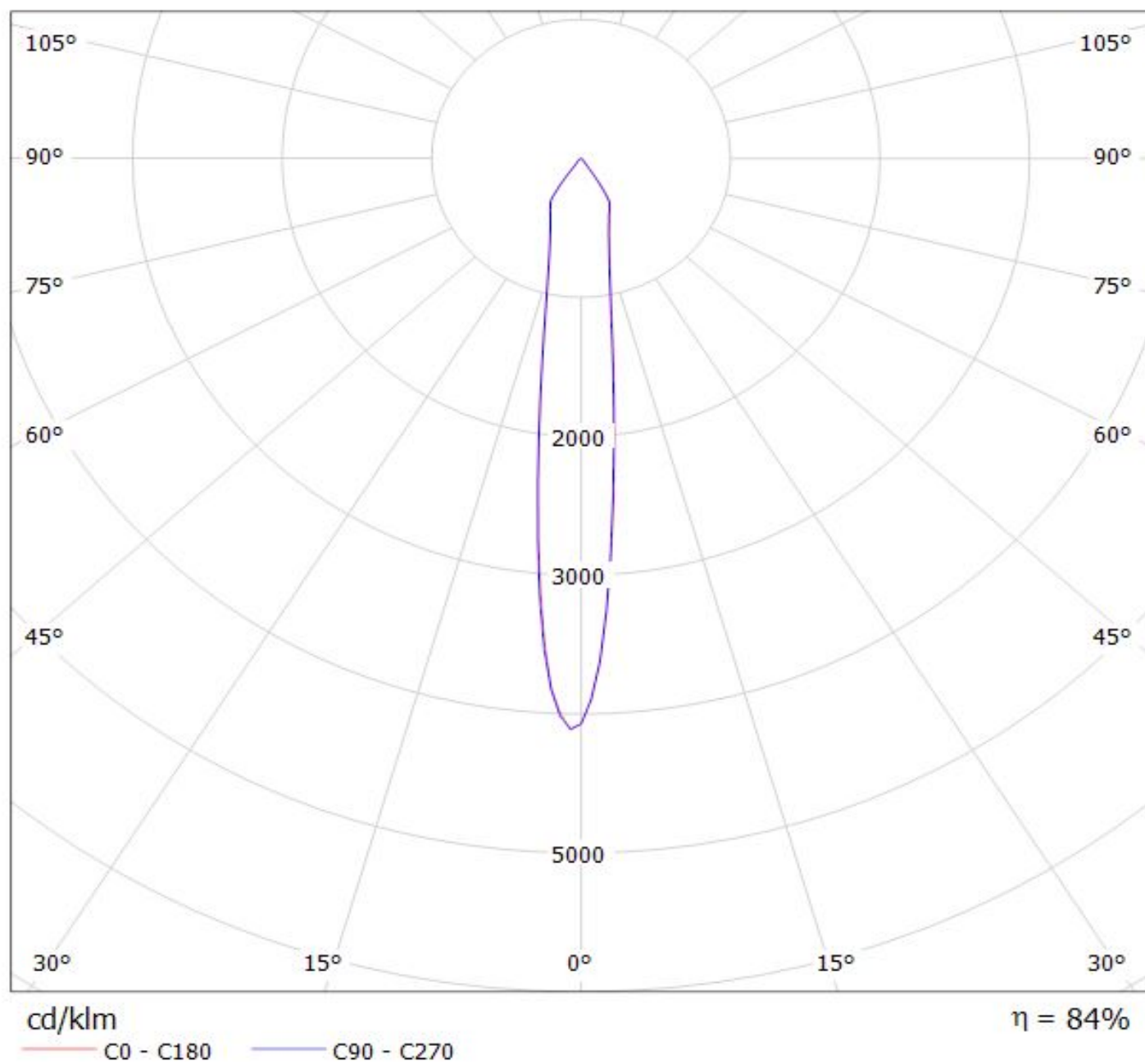
$\eta = 87\%$

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



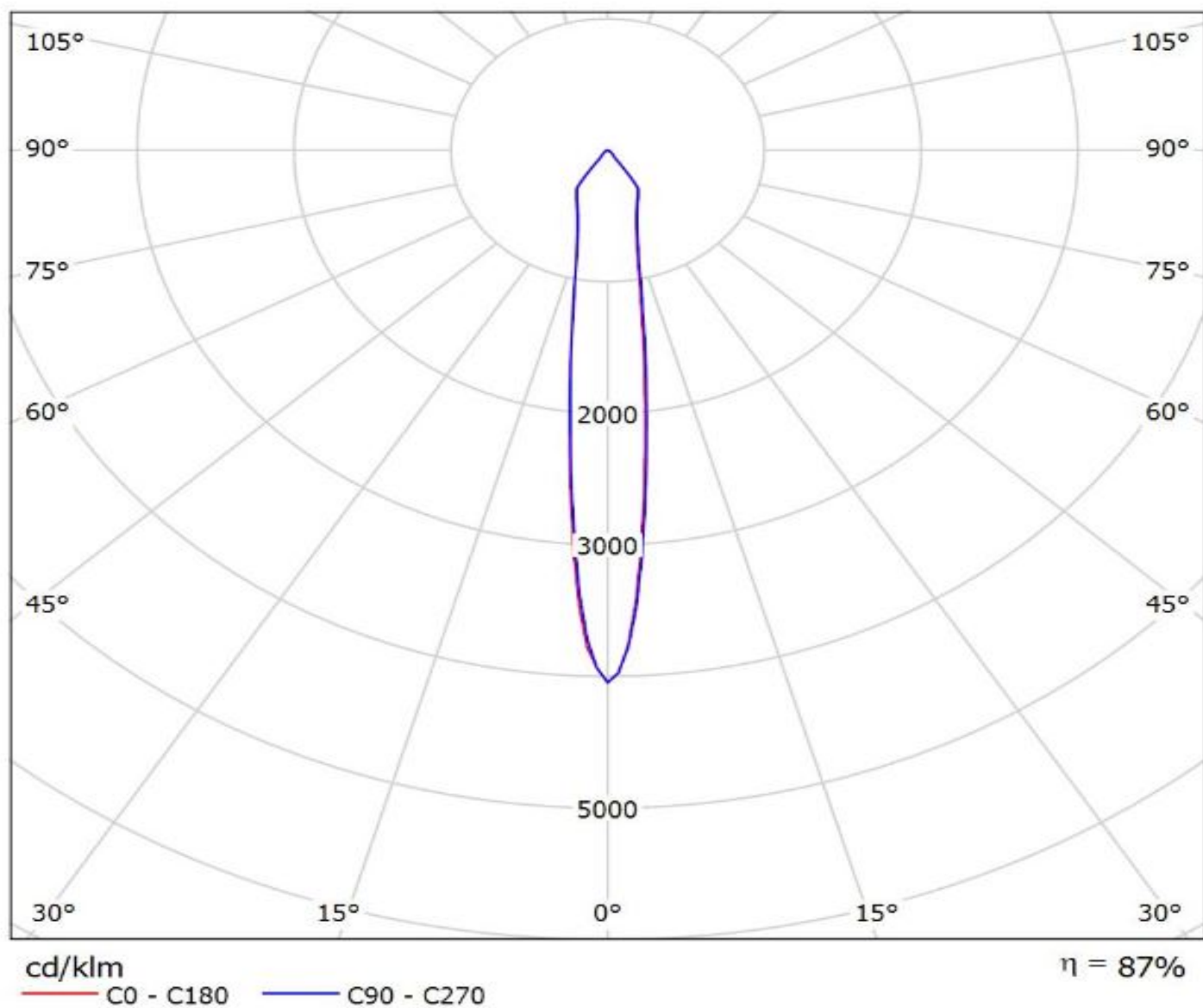
Luminaire: LEDiL Oy F13380_ANGELA-M_(CLL030)

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

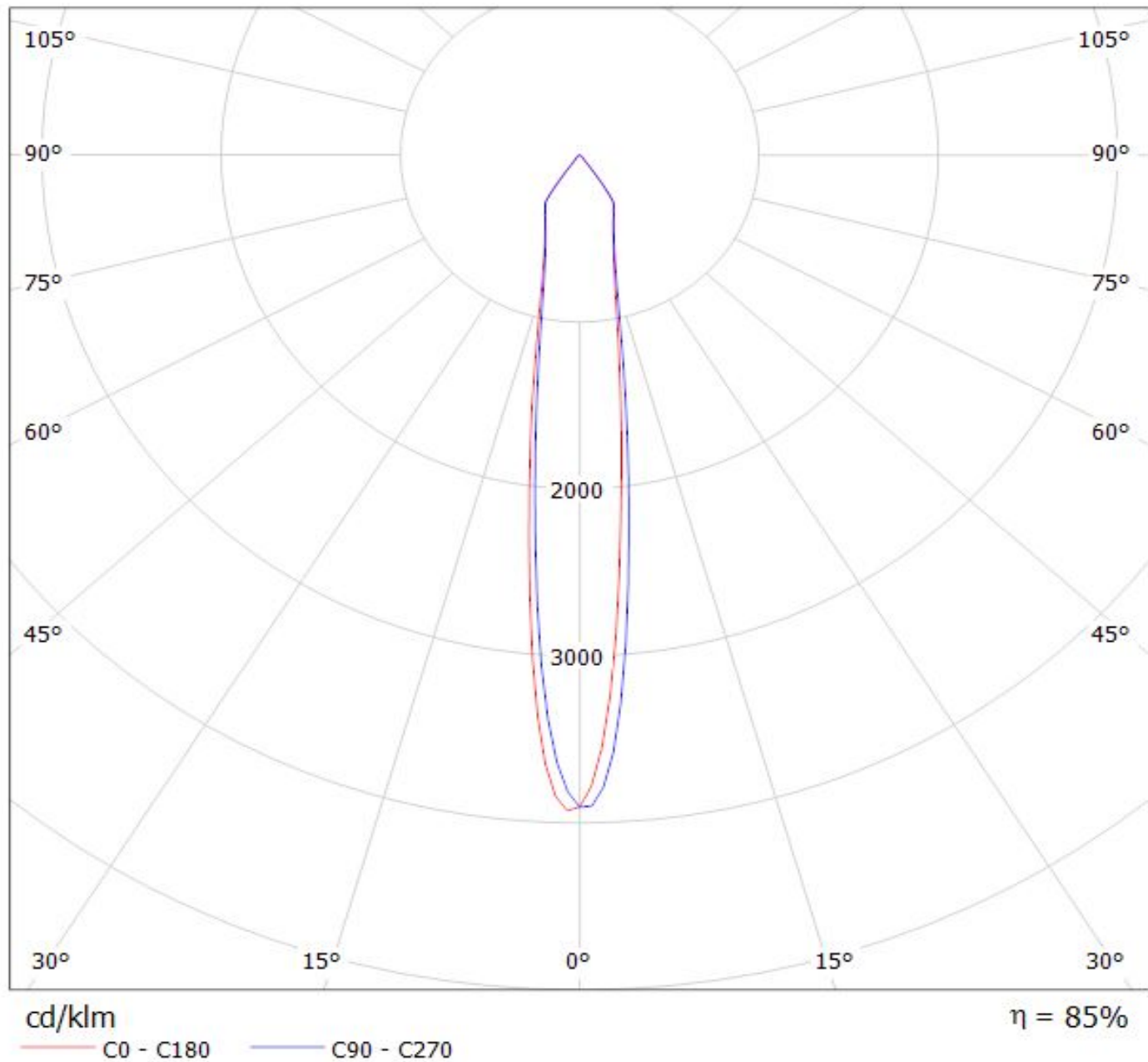


Ledil F13380_ANGELA-M_(CLU720) / LDC (Polar)

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

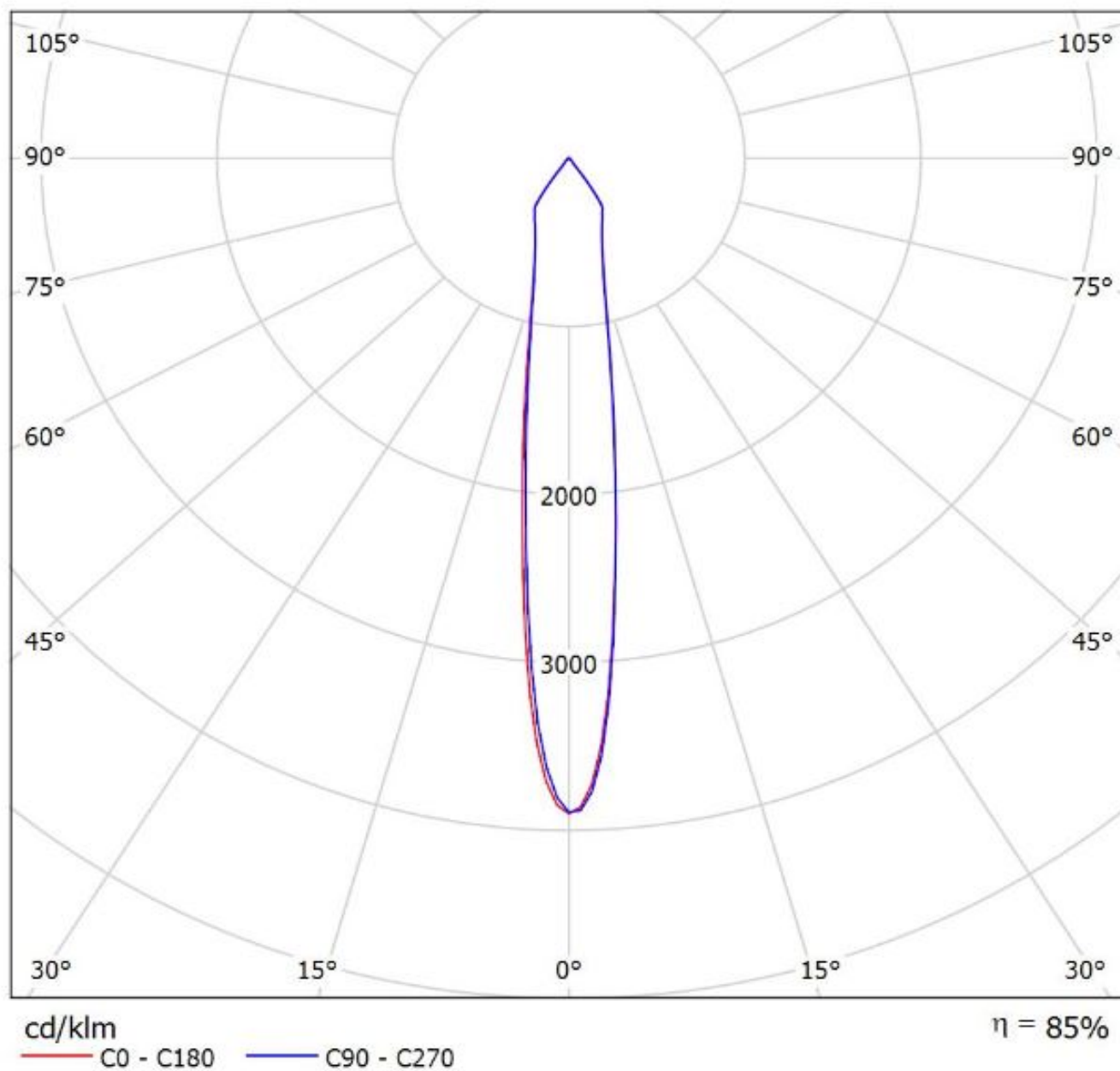


Luminaire: LEDiL Oy F13380_ANGELA-M_(COB_1205) Eff.85.3%
Lamps: 1 x Luxeon_COB_1205_1092.75lm@250mA_P=8.33092W_I=249.9mA



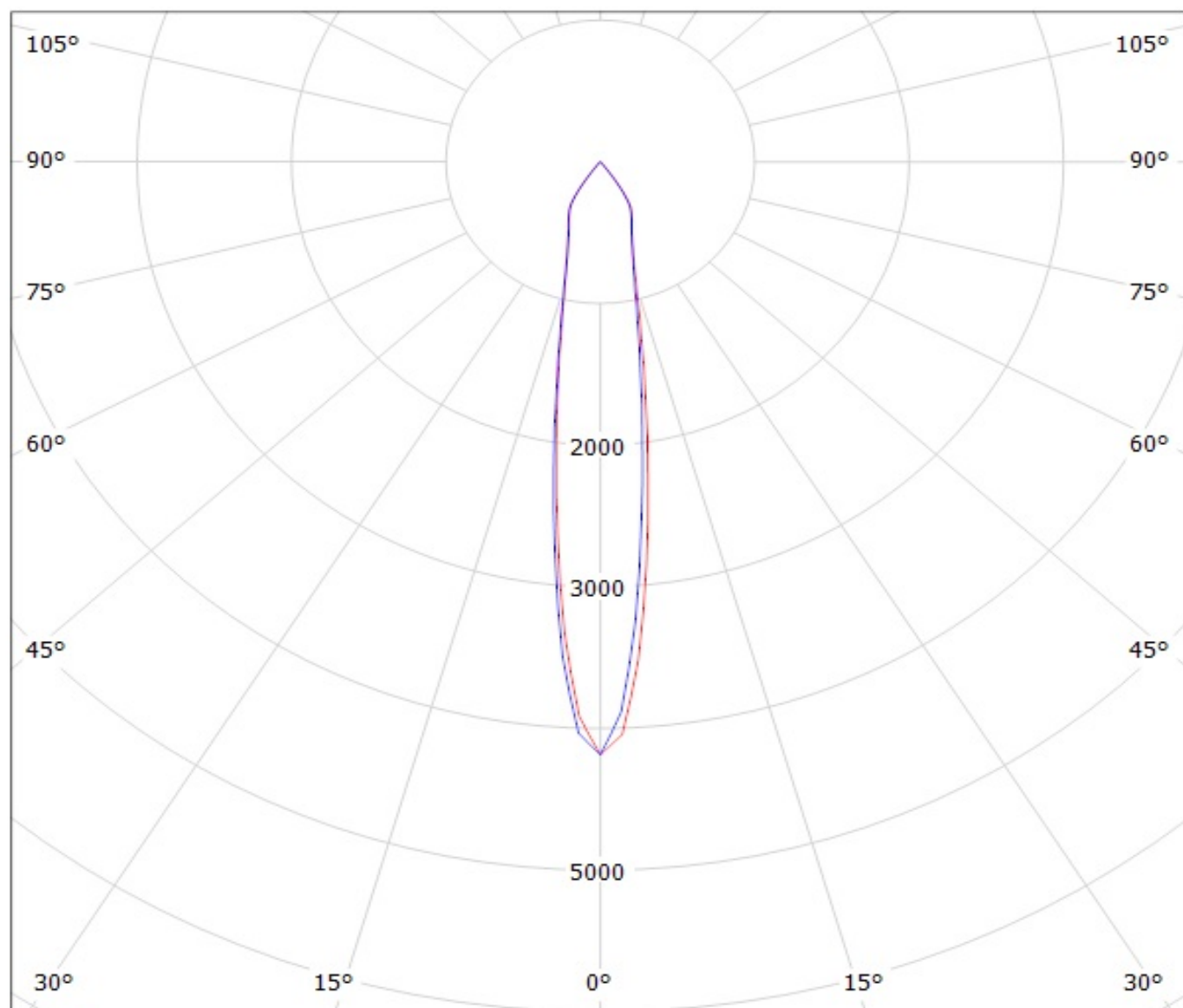
Luminaire: LEDiL Oy F13380_ANGELA-M_(SOLERIQ_P13)

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_(Soleriq_S13) Efficiency=86%

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

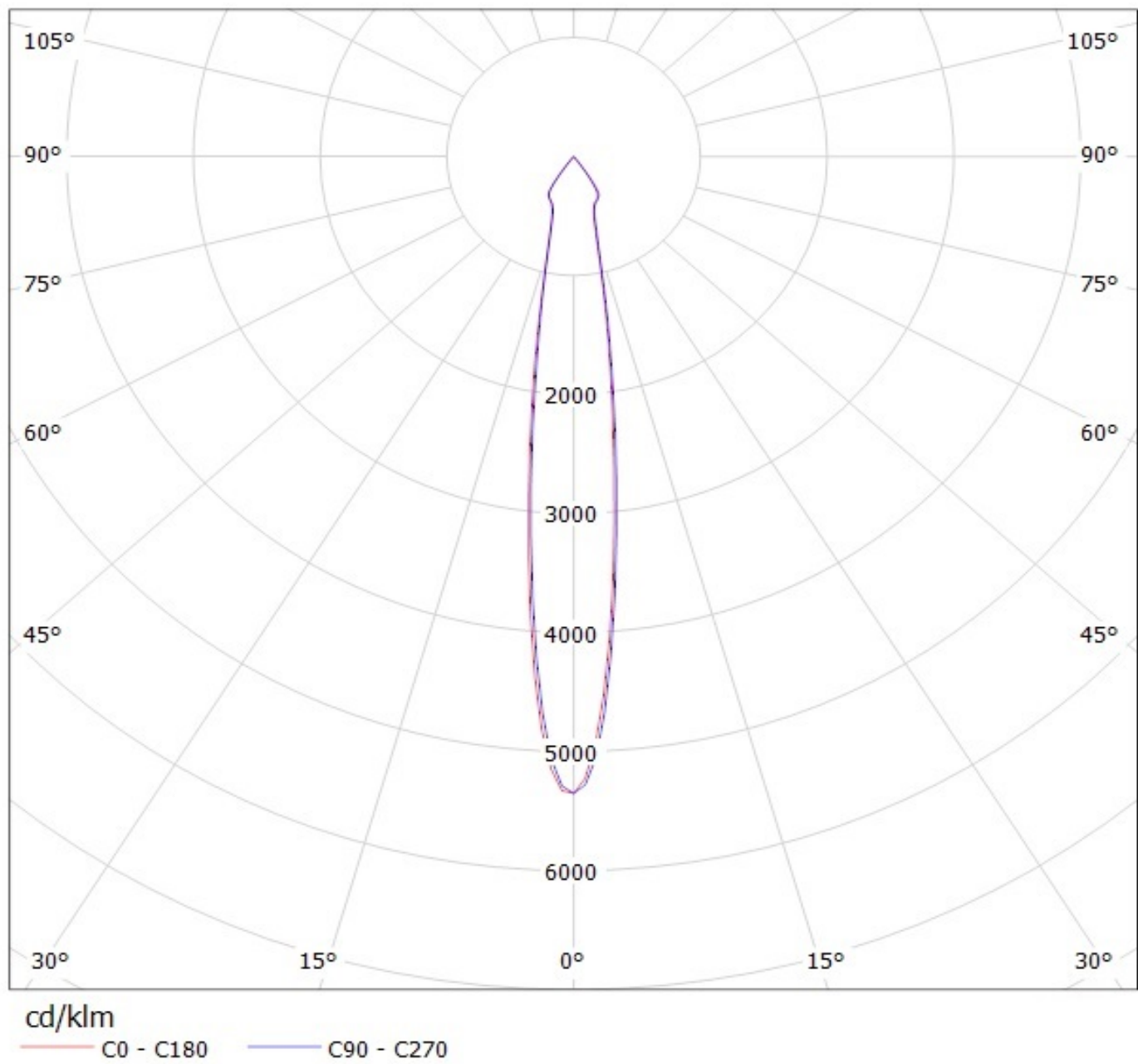


cd/klm

— C0 - C180

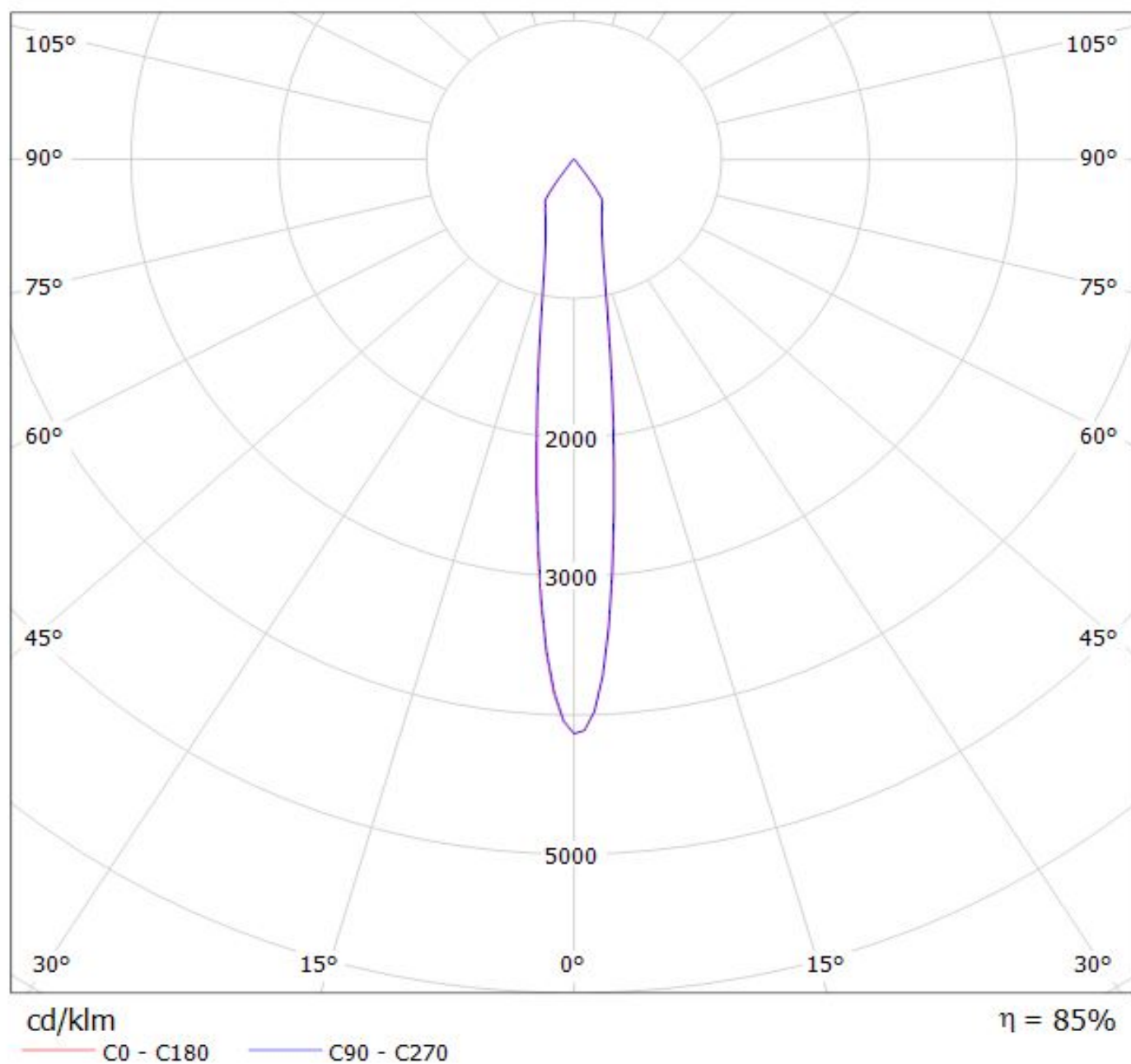
— C90 - C270

Luminaire: LEDil Oy F13380_ANGELA-M_(NFCxL060B)
Lamps: 1 x Nichia NFCxL060B (SM403G2450R8000) 1250.88lm @ 250mA P=8.4W I=250mA

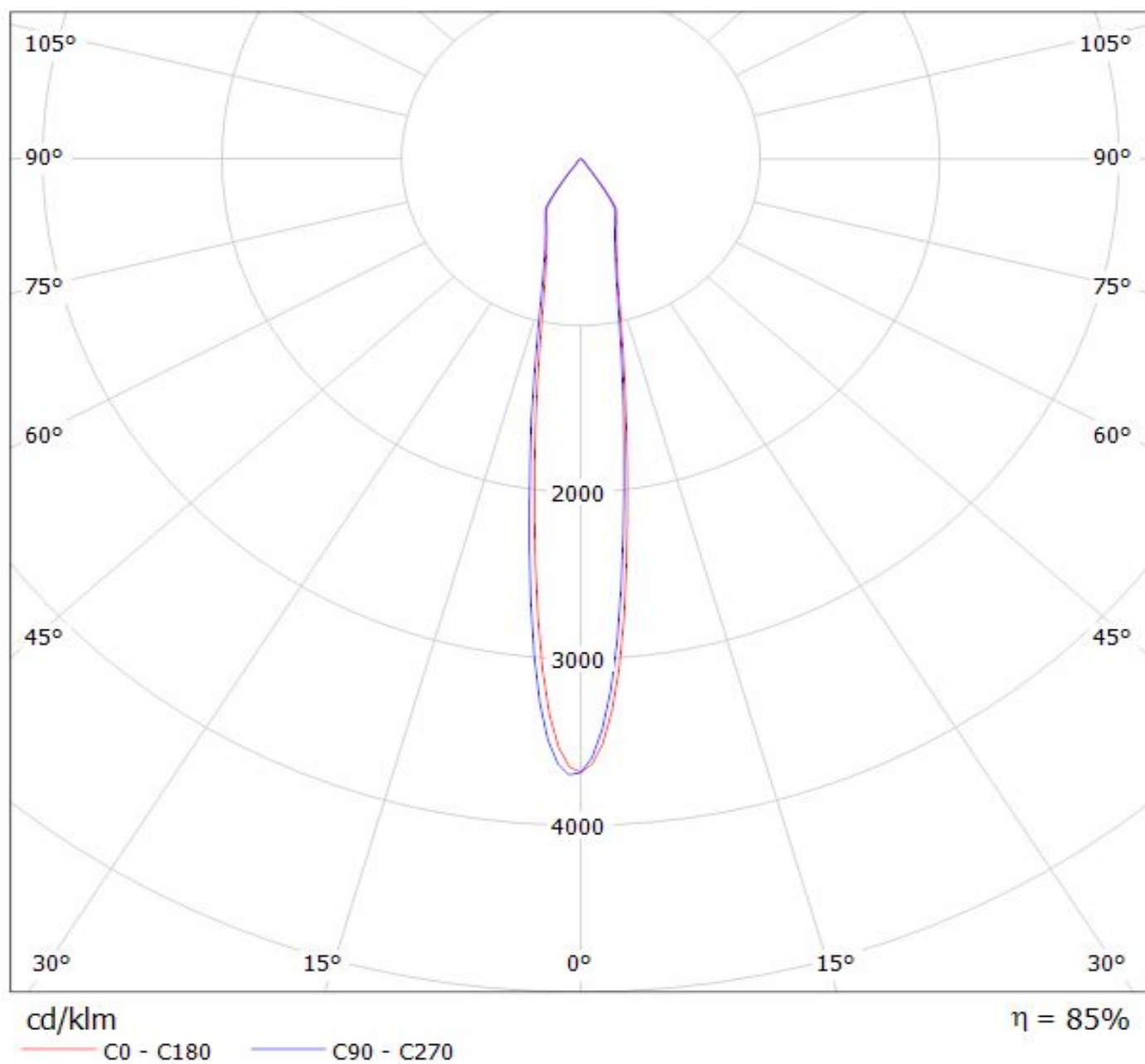


Luminaire: LEDiL Oy F13380_ANGELA-M_(Fortimo LED SLM L13 G4)

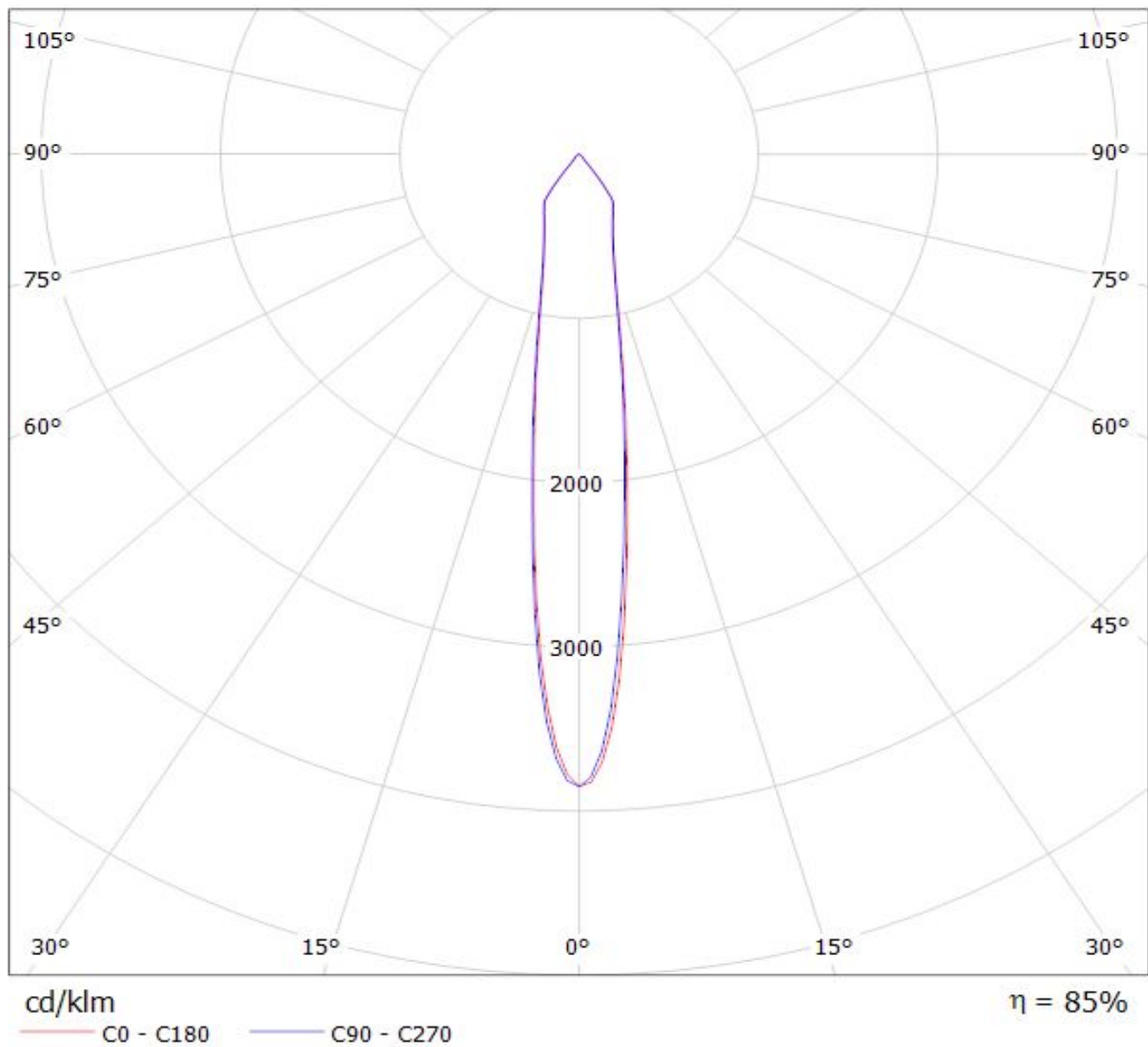
Lamps: 1 x Fortimo LED SLM L13 G4_1030.19lm@250mA_P=8.38104W_I=0.2498A



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

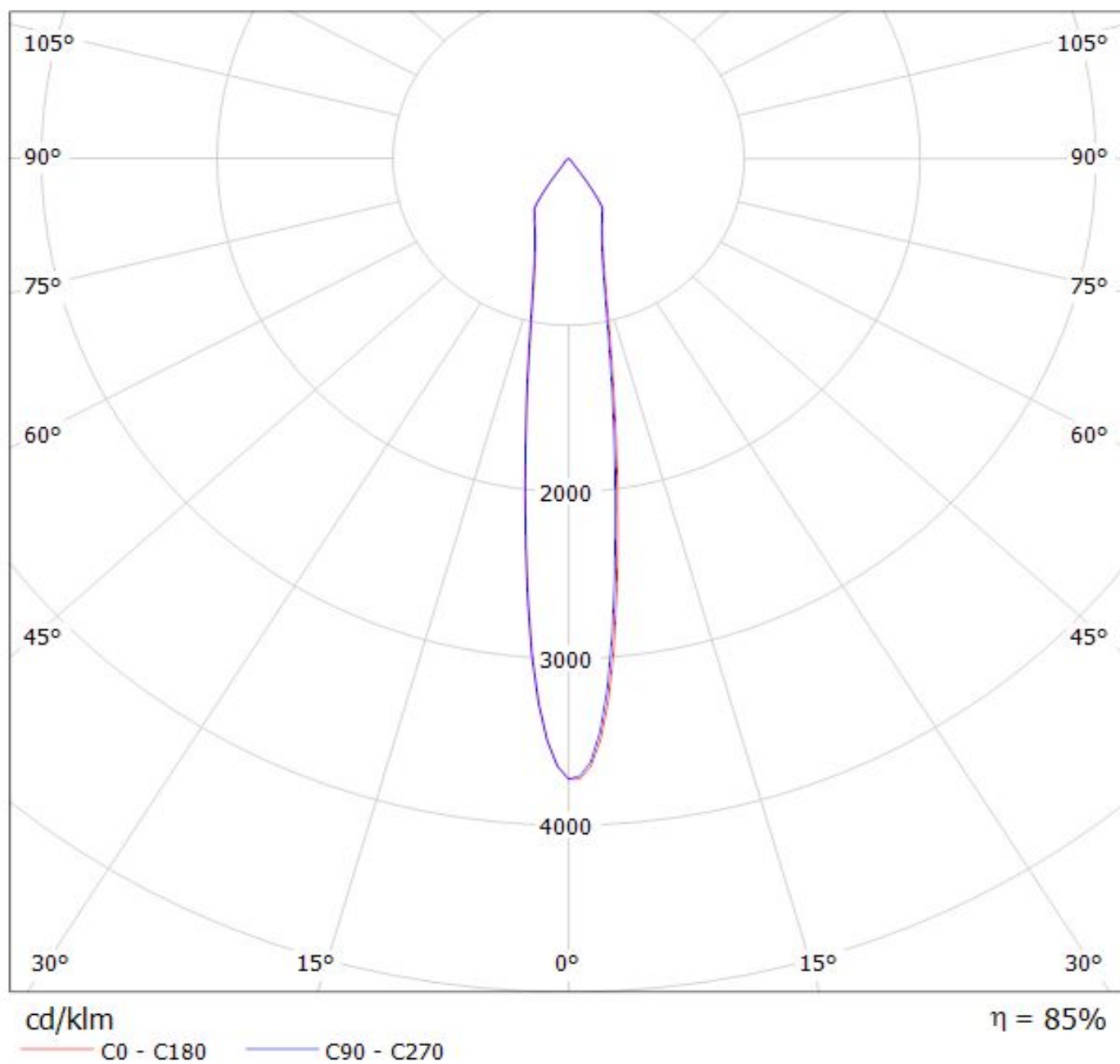


Luminaire: LEDiL Oy F13380_ANGELA-M_(CXM-14)
Lamps: 1 x LUMINUS_CXM-14_1114.36lm@250mA_P=8.36106W_I=249.8mA

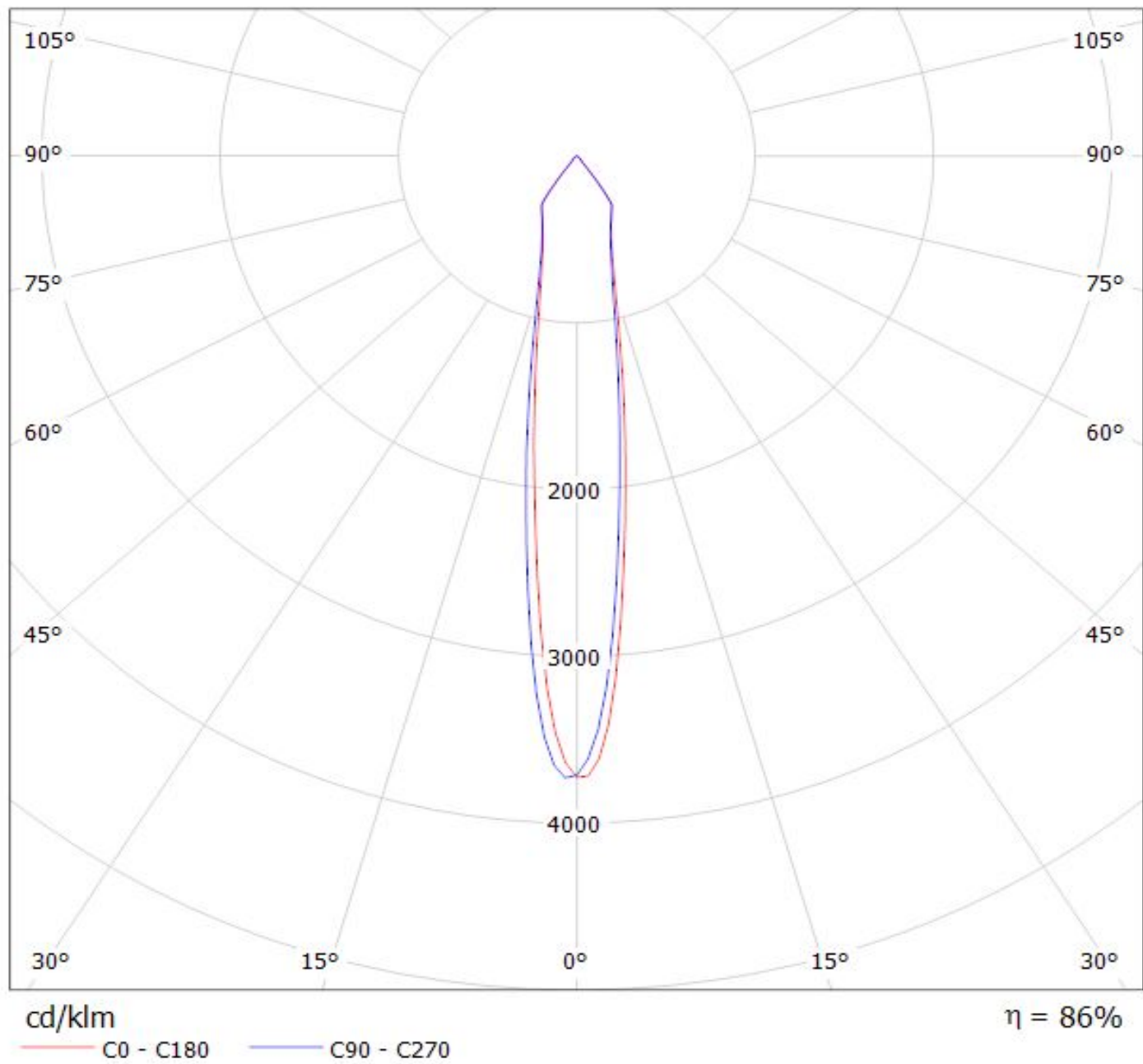


Luminaire: LEDiL Oy F13380_ANGELA-M_(Fortimo LED SLM L15 G4)

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

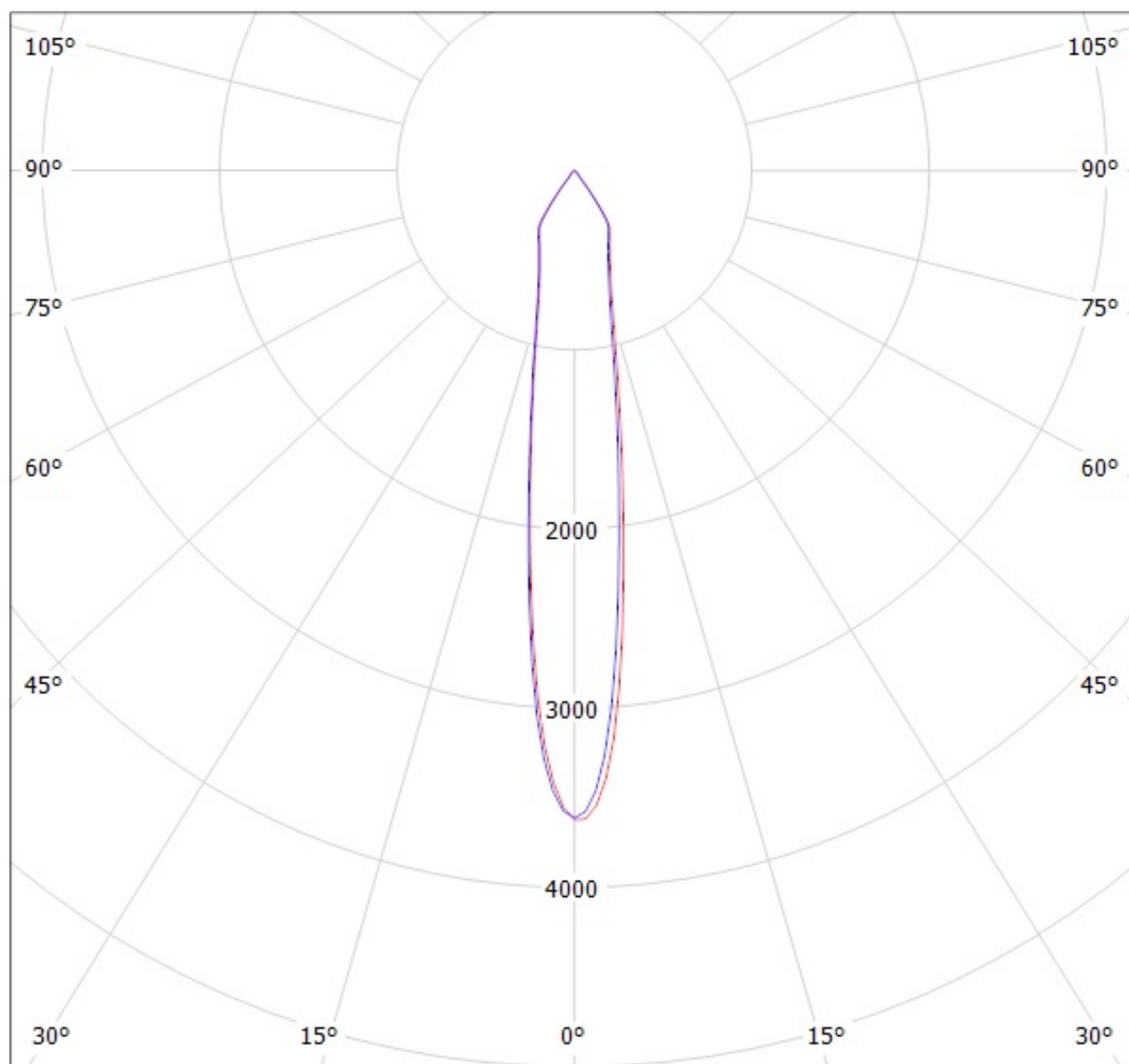


Luminaire: LEDiL Oy F13380_ANGELA-M_(NSBxL121A) Eff.86.4%
Lamps: 1 x Nichia_NSBxL121A_920.44lm@250mA_P=7.57797W_I=249.9mA



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

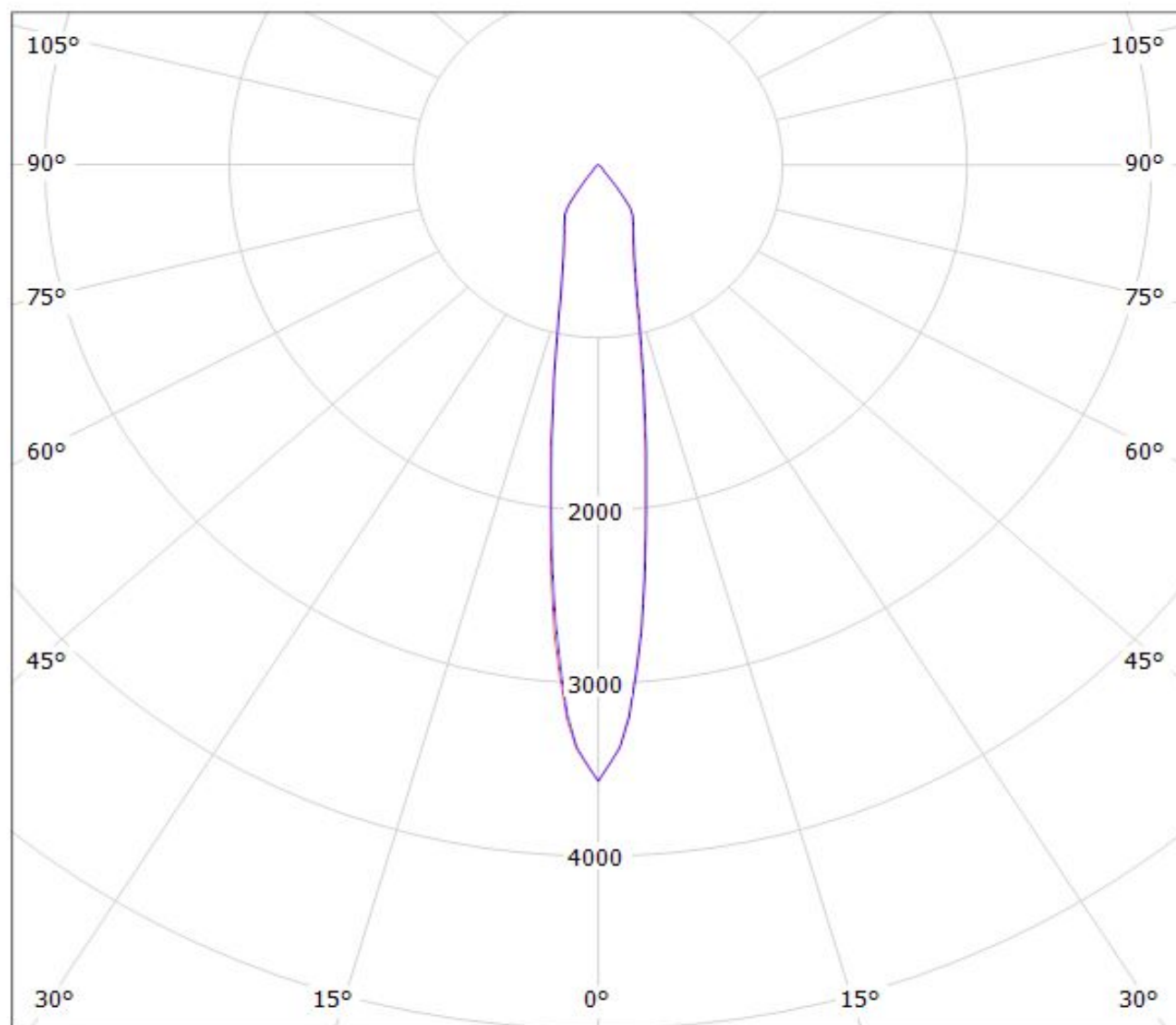
— C0 - C180

— C90 - C270

$\eta = 85\%$

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



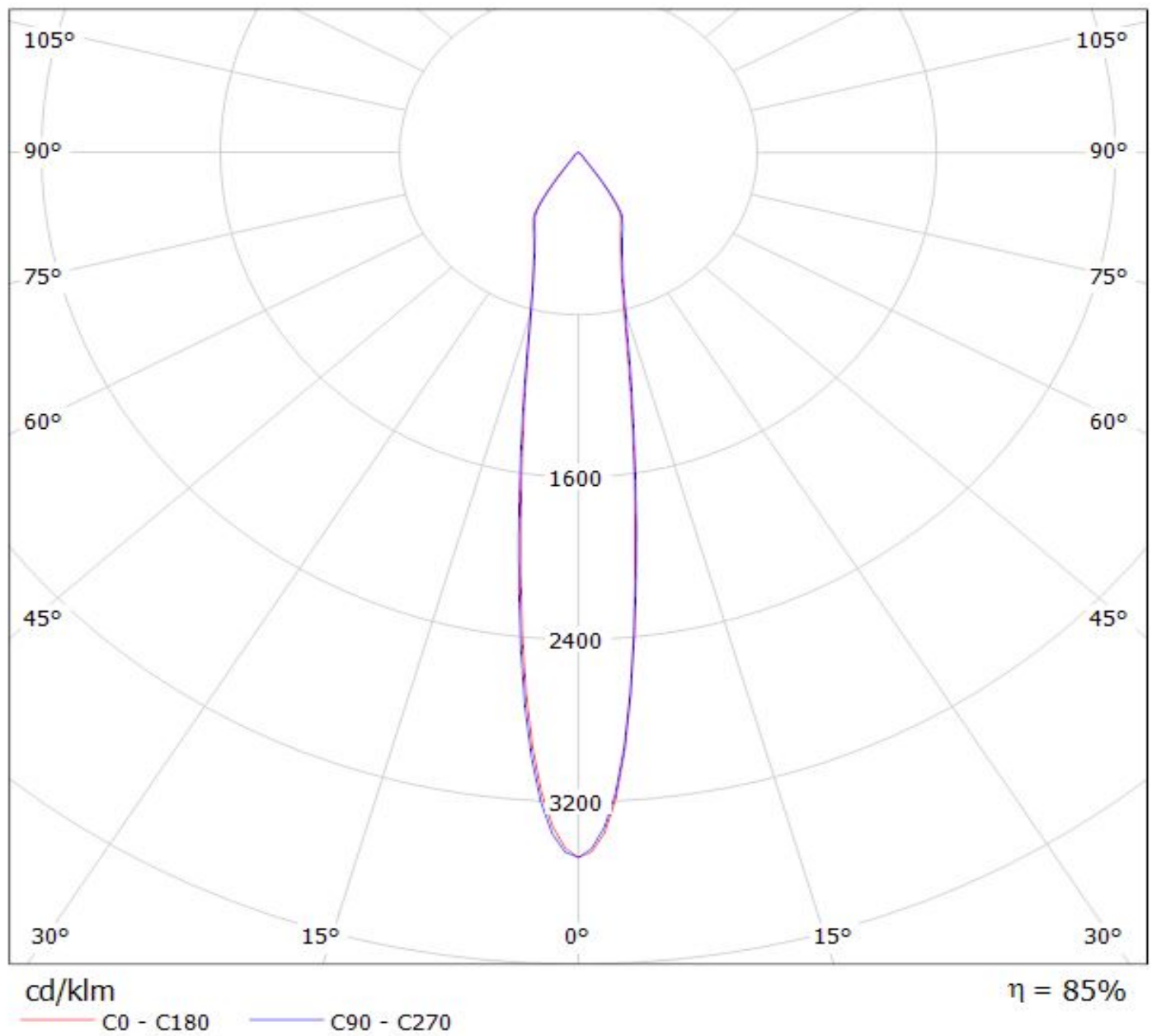
cd/klm

$\eta = 85\%$

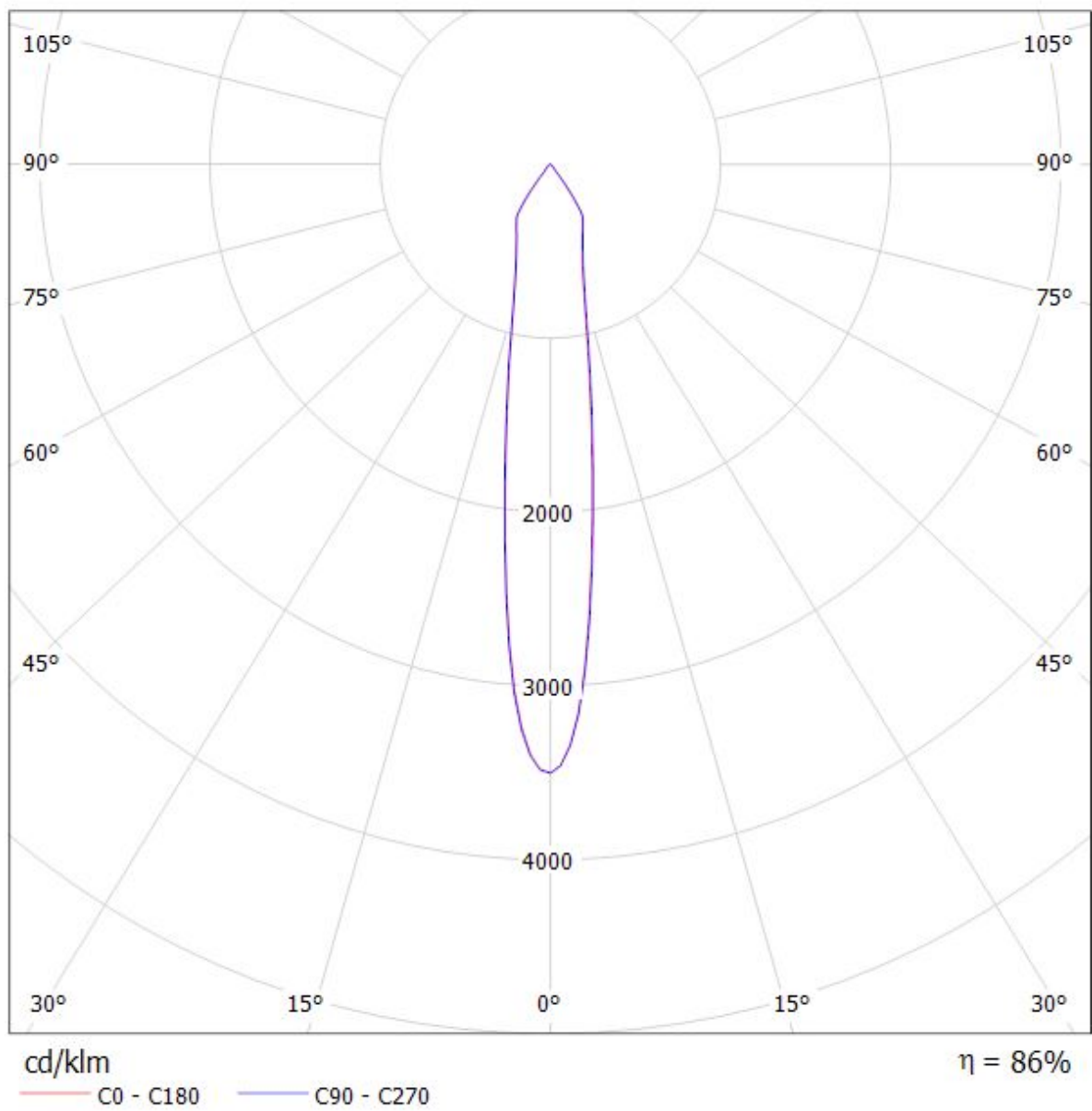
— C0 - C180

— C90 - C270

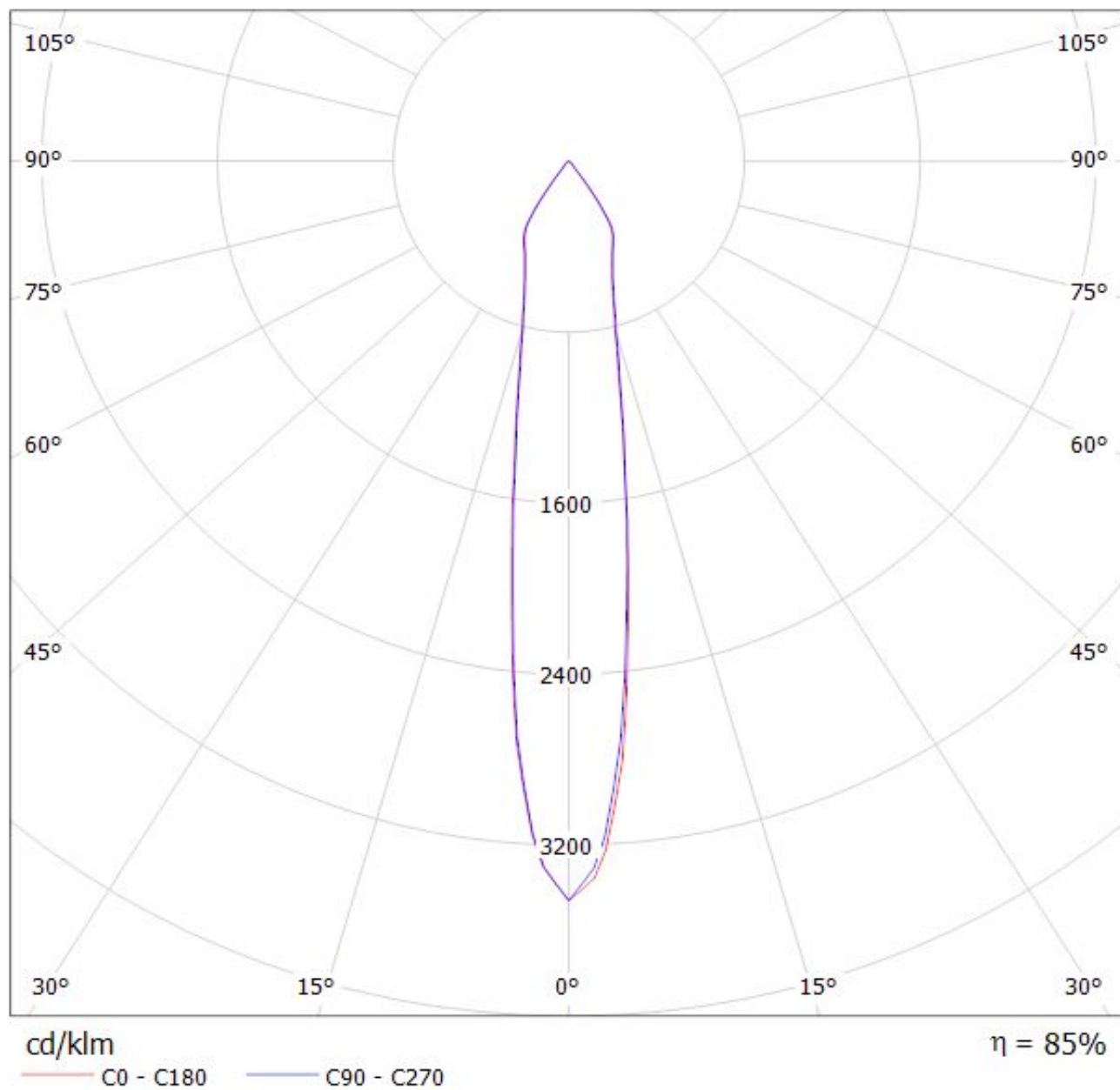
Luminaire: LEDiL Oy F13380_ANGELA-M_(PrevaLED_LES19)
Lamps: 1 x Osram_PrevaLED_CORE_Z3_LES19_(PL-CORE-2000-830-Z3)
_1356.73lm@250mA_P=10.5228W_I=249.9mA



Luminaire: LEDiL Oy F13380_ANGELA-M_(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

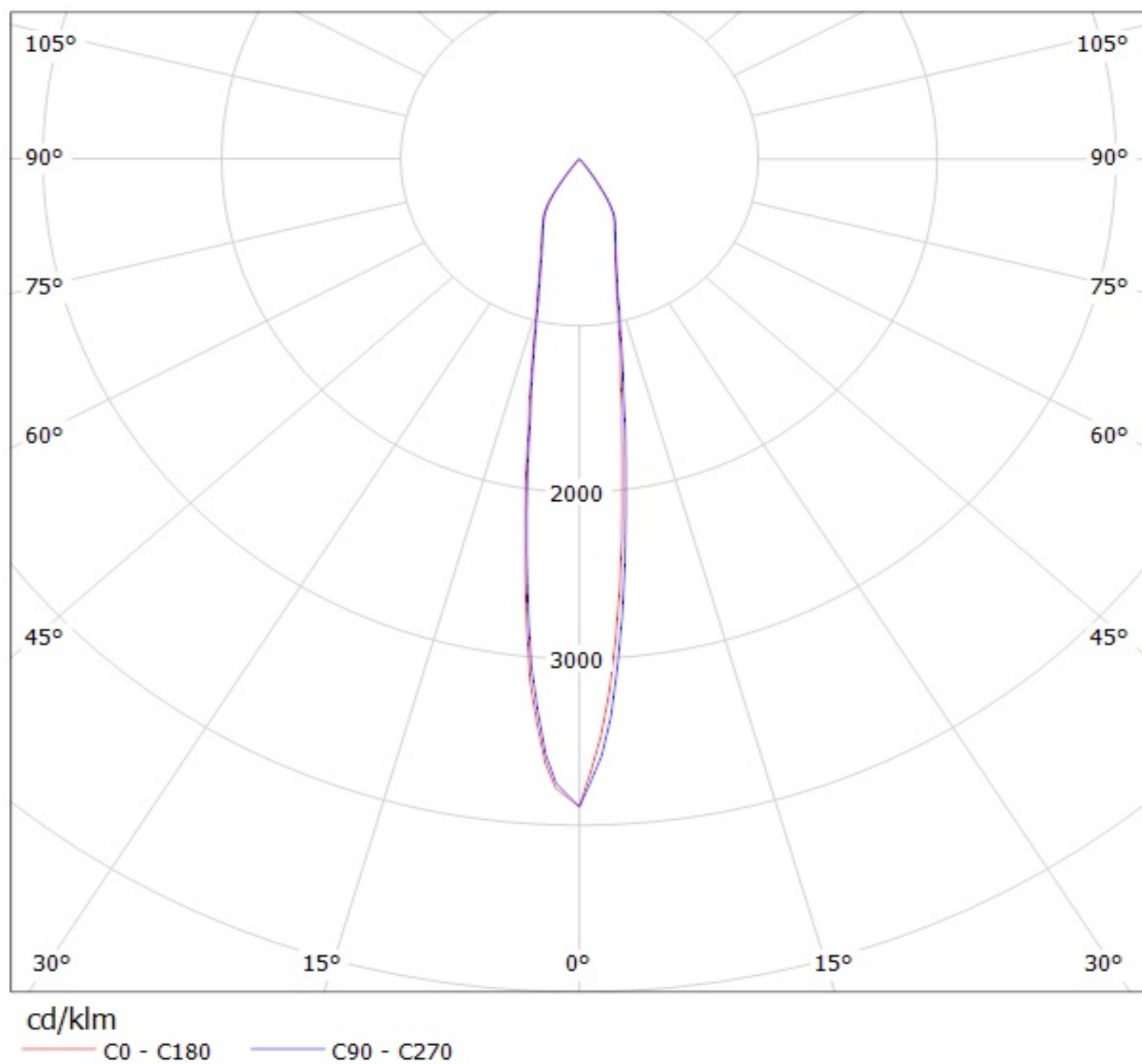


Luminaire: LEDiL Oy F13380_ANGELA-M_(LEP-2000-827-C-AC)
Lamps: 1 x OSRAM PrevaLED Core AC (LEP-2000-827-C-AC)



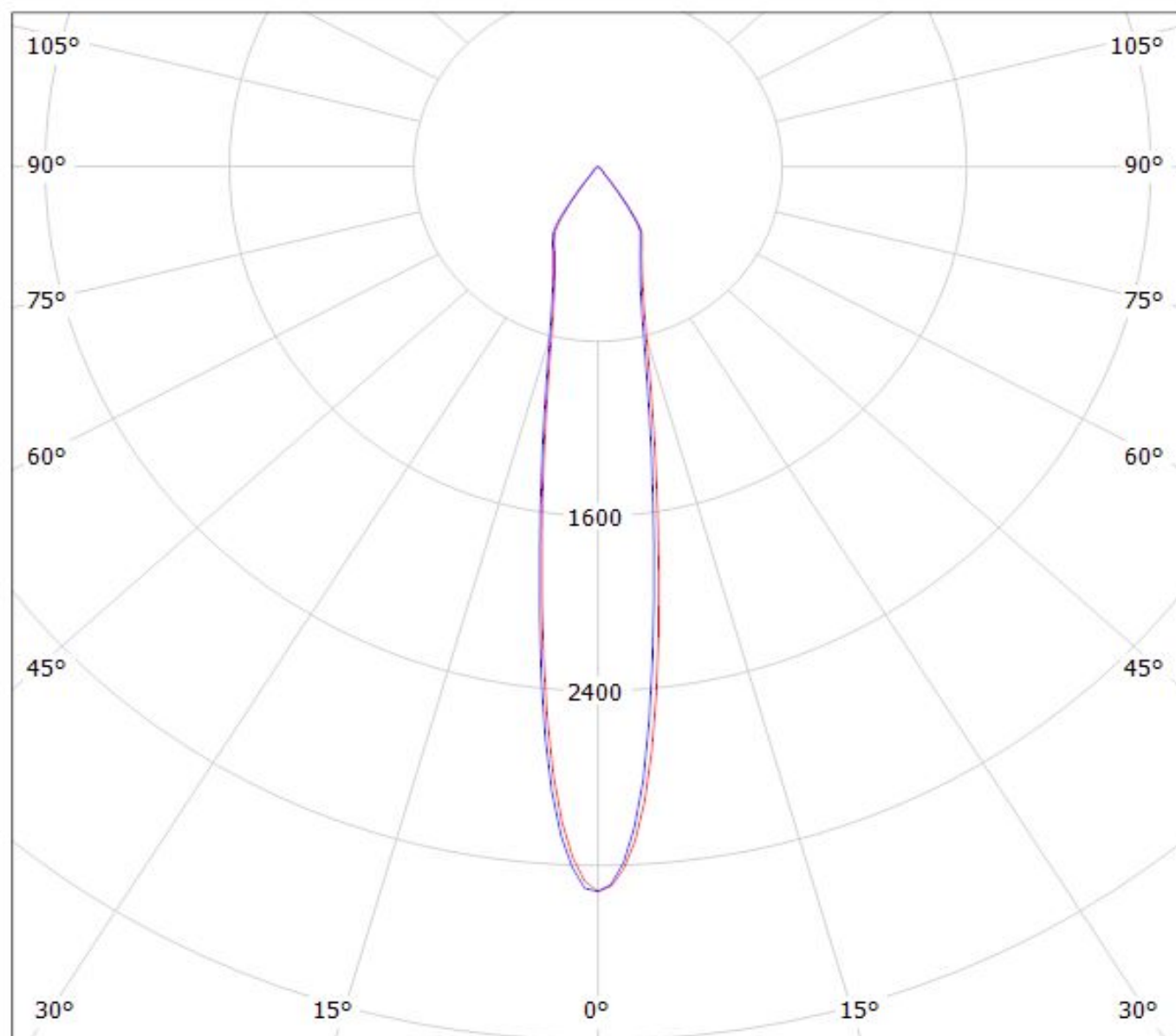
Luminaire: LEDil Oy F13380_ANGELA-M_(NFDxJ130B)

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



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

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



cd/klm

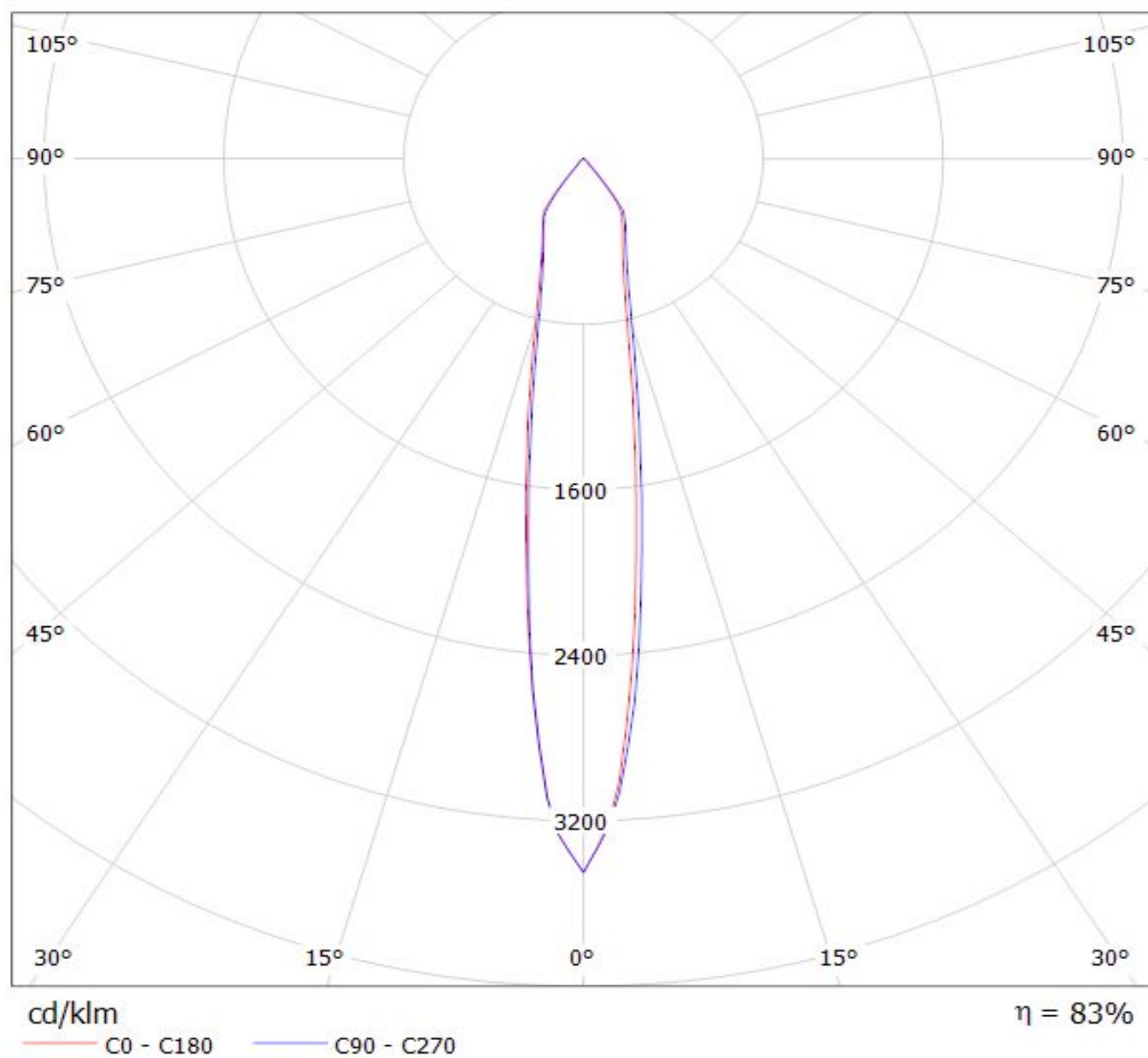
— C0 - C180

— C90 - C270

$\eta = 83\%$

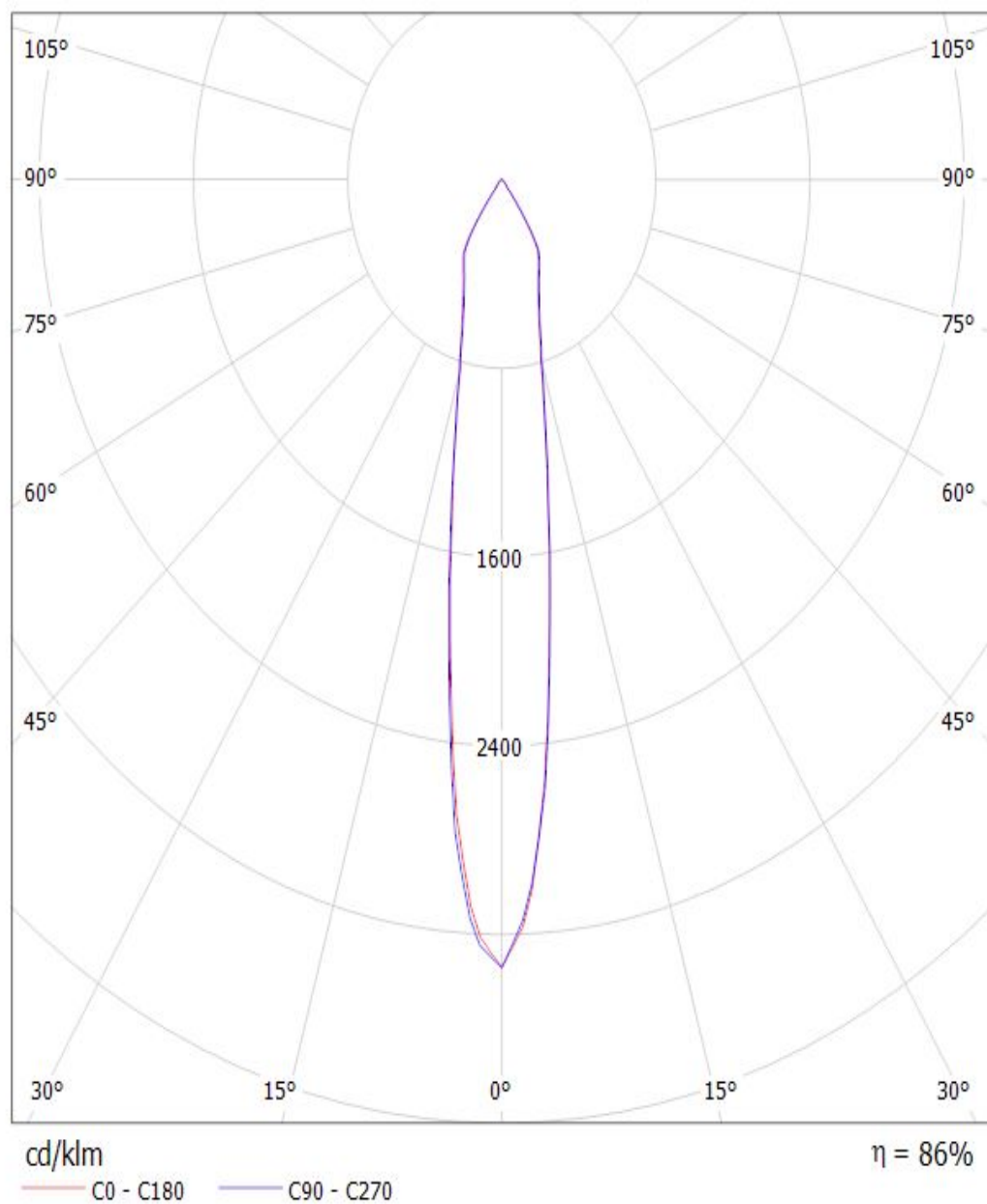
Luminaire: LEDiL Oy F13380_ANGELA-M_(WU-M-461-827)

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

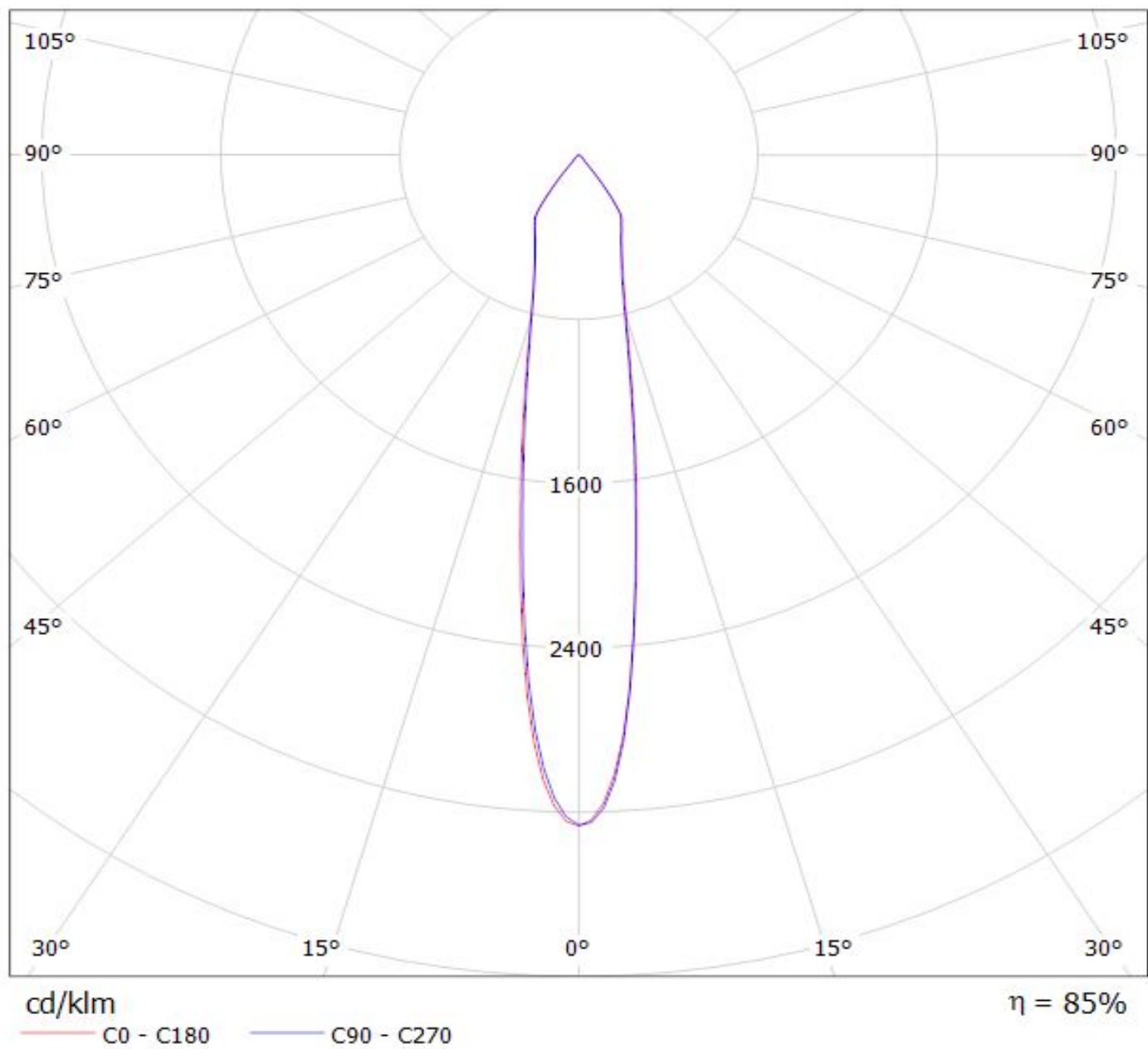


Luminaire: LEDiL Oy F13380_ANGELA-M_(STARK_LES19)

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

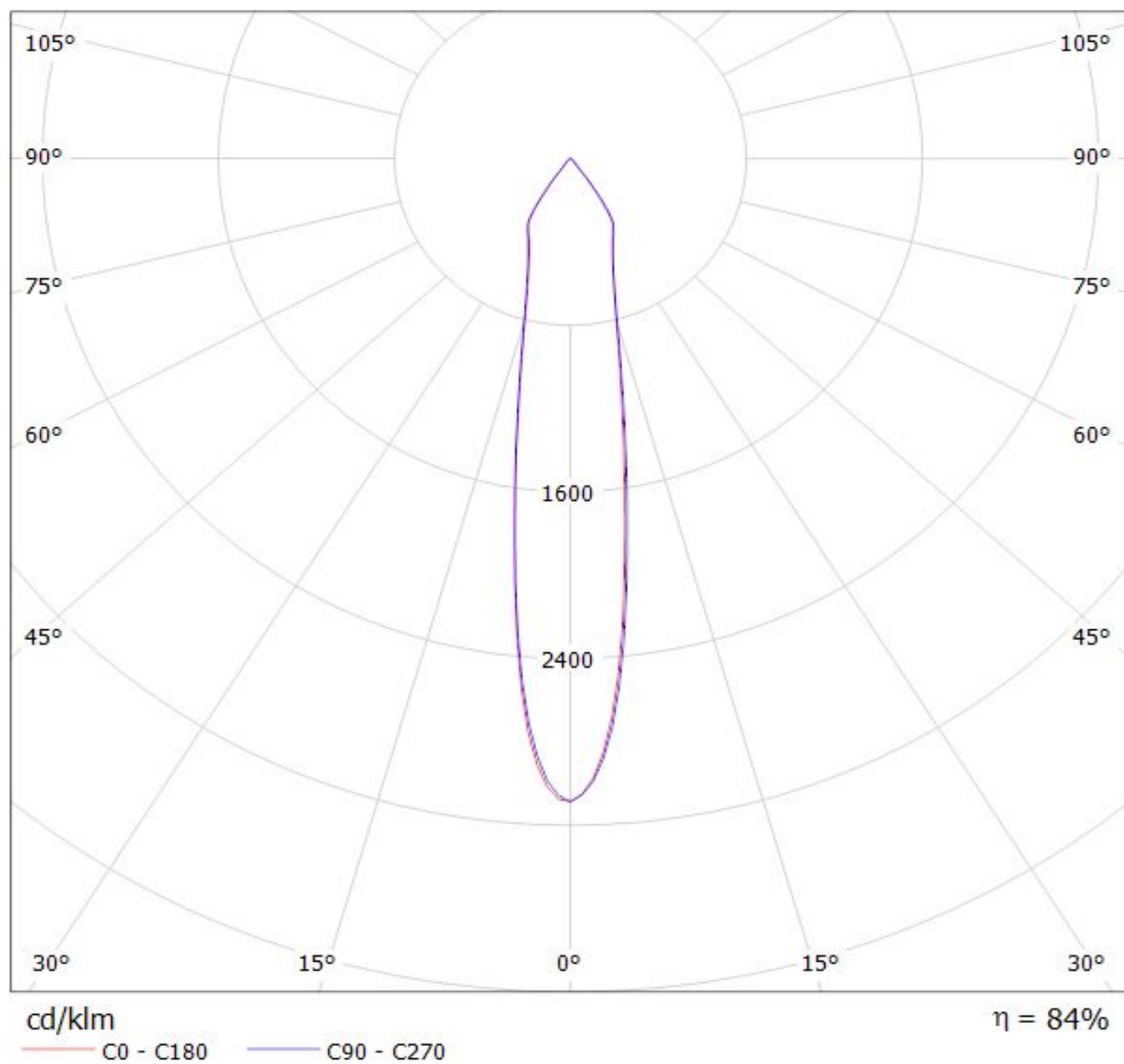


Luminaire: LEDiL Oy F13380_ANGELA-M_(COB-LC026B) Eff.85.2%
Lamps: 1 x SAMSUNG_COB-LC026B_(SPHWWTHDNC25YHV52F)
_1122.94lm@250mA_P=8.2479W_I=249.8mA

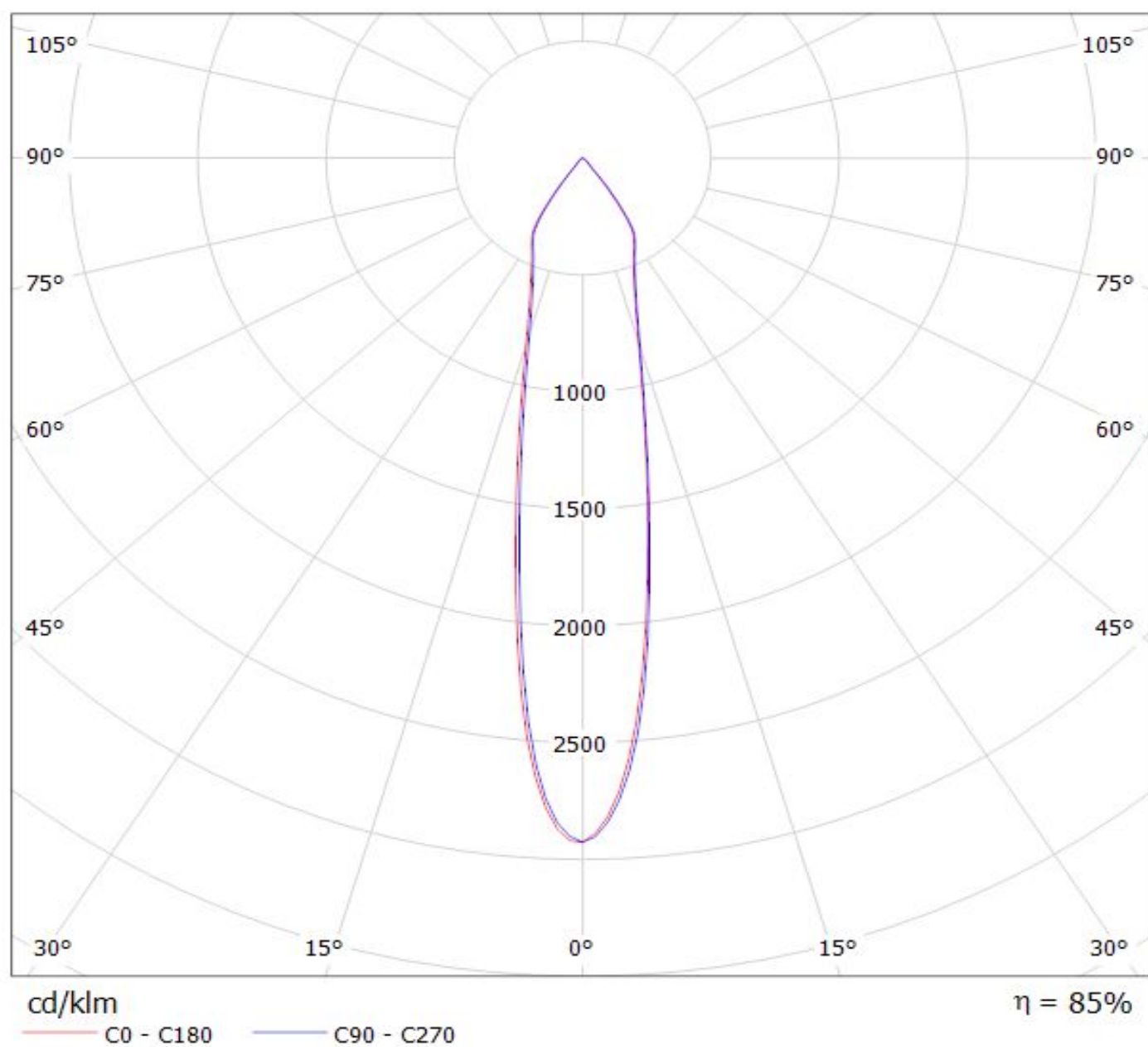


Luminaire: LEDiL Oy F13380_ANGELA-M_(Fortimo LED SLM L19 G4)

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

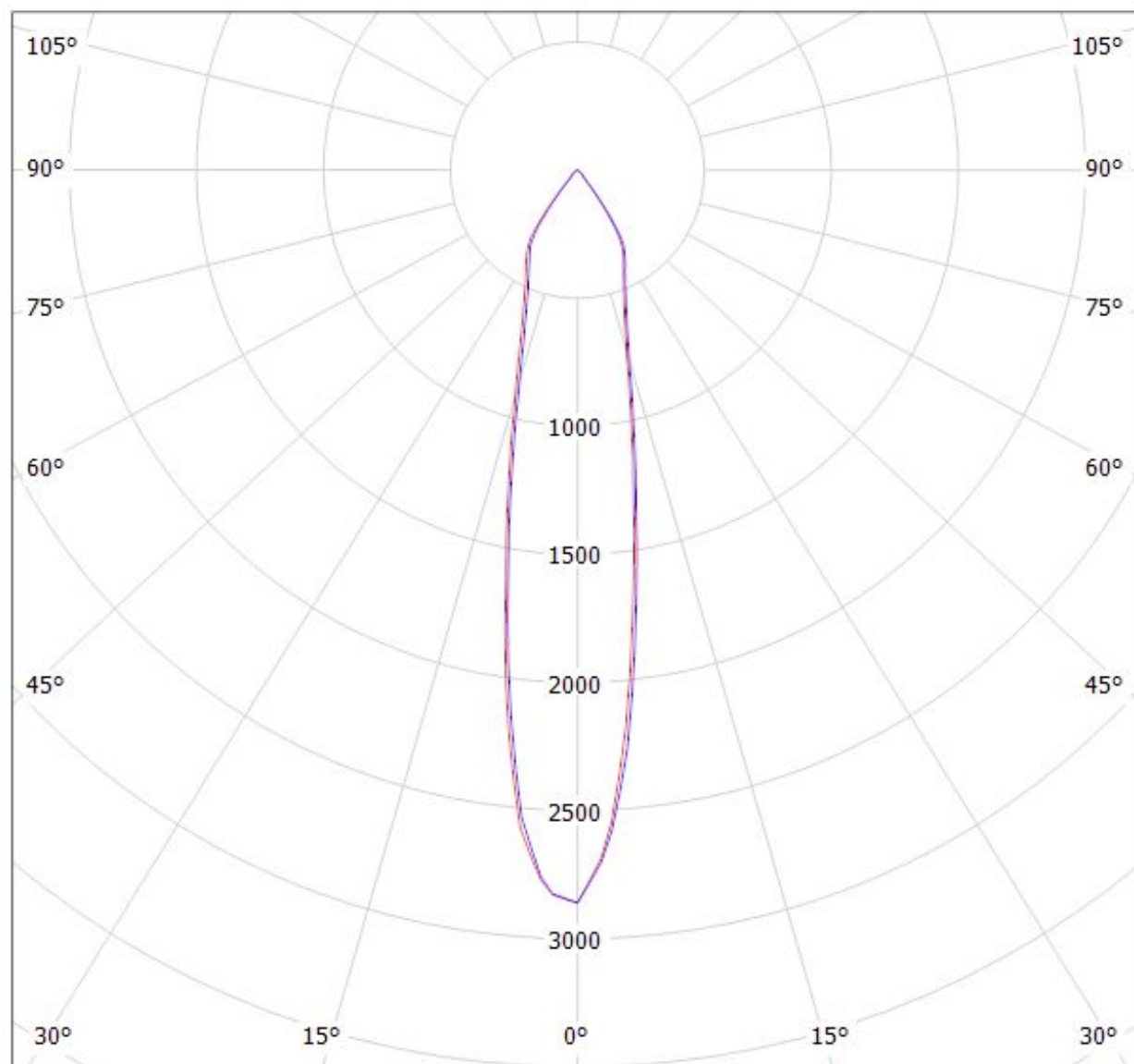


Luminaire: LEDiL Oy F13380_ANGELA-M_(PrevaLED_LES23)
Lamps: 1 x Osram_PrevaleLED_Core_Z3_LES23_(PL-CORE-5000-930-Z3)
_1130.05lm@250mA_P=10.0097W_I=249.9mA



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



cd/klm

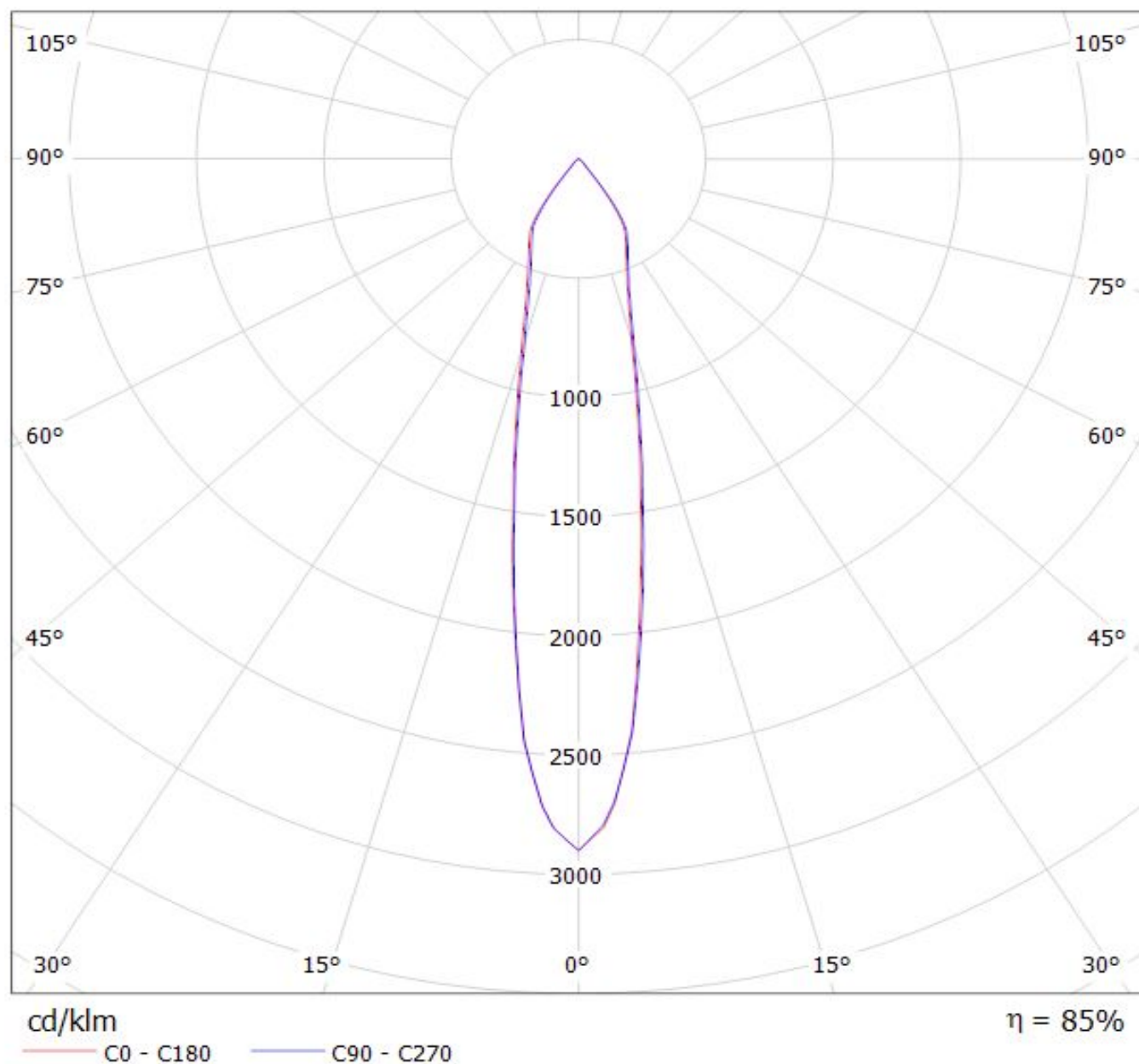
$\eta = 85\%$

— C0 - C180

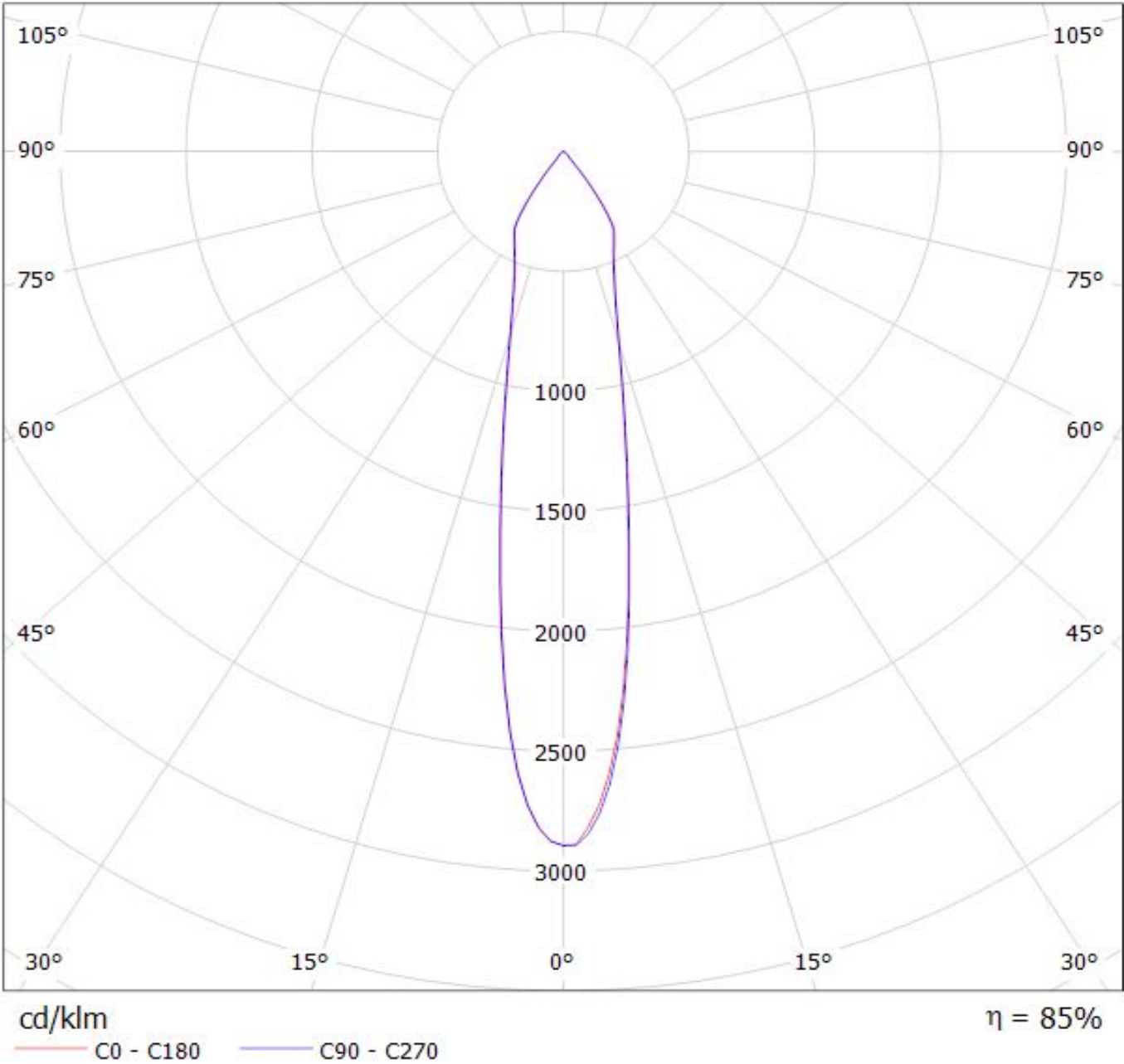
— C90 - C270

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

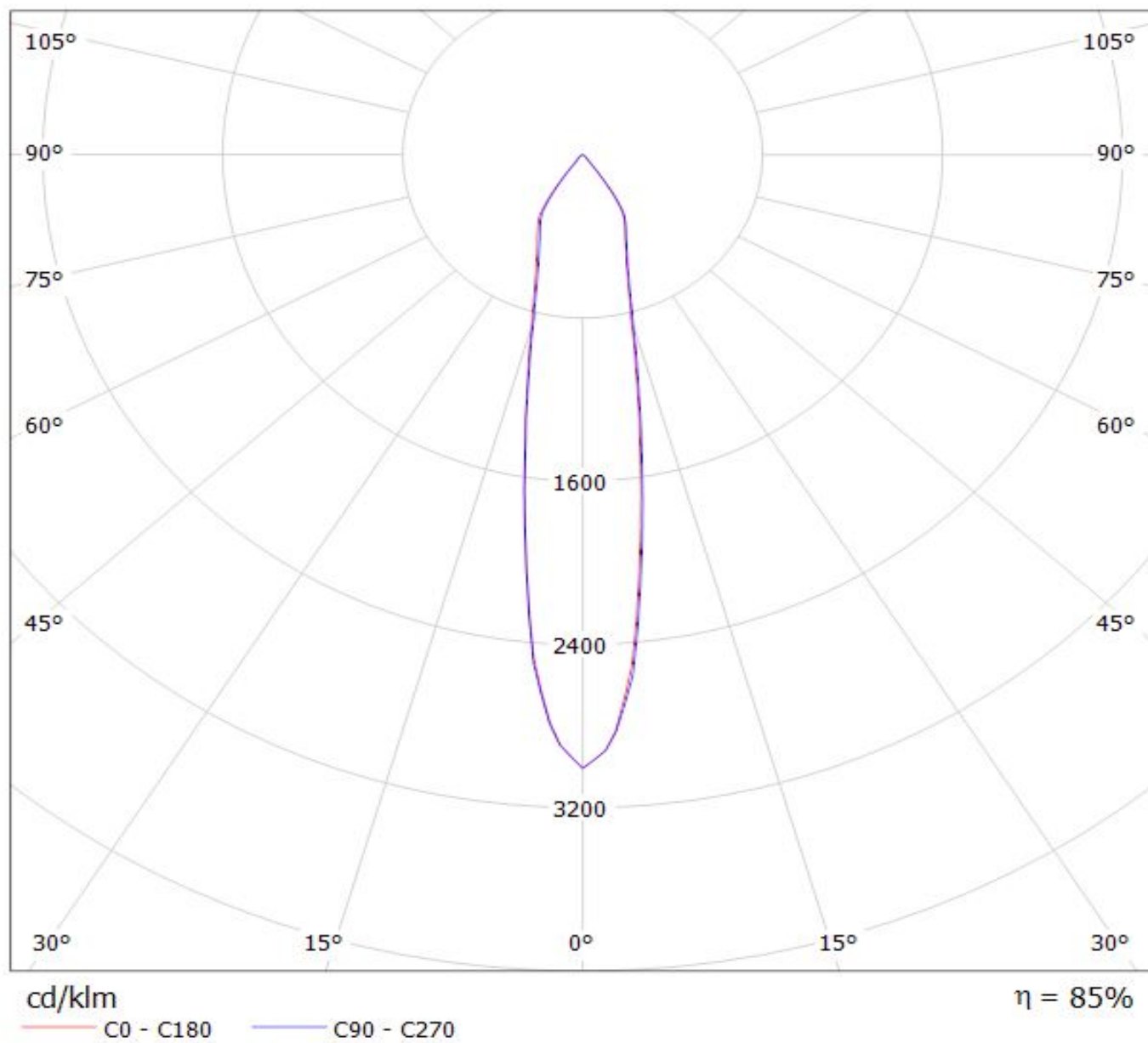


Luminaire: LEDiL Oy F13380_ANGELA-M_(SLE_G4_LES23)
Lamps: 1 x Tridonic_SLE_G4_LES23_1354.57lm@250mA_P=8.18744W_I=0.2498A



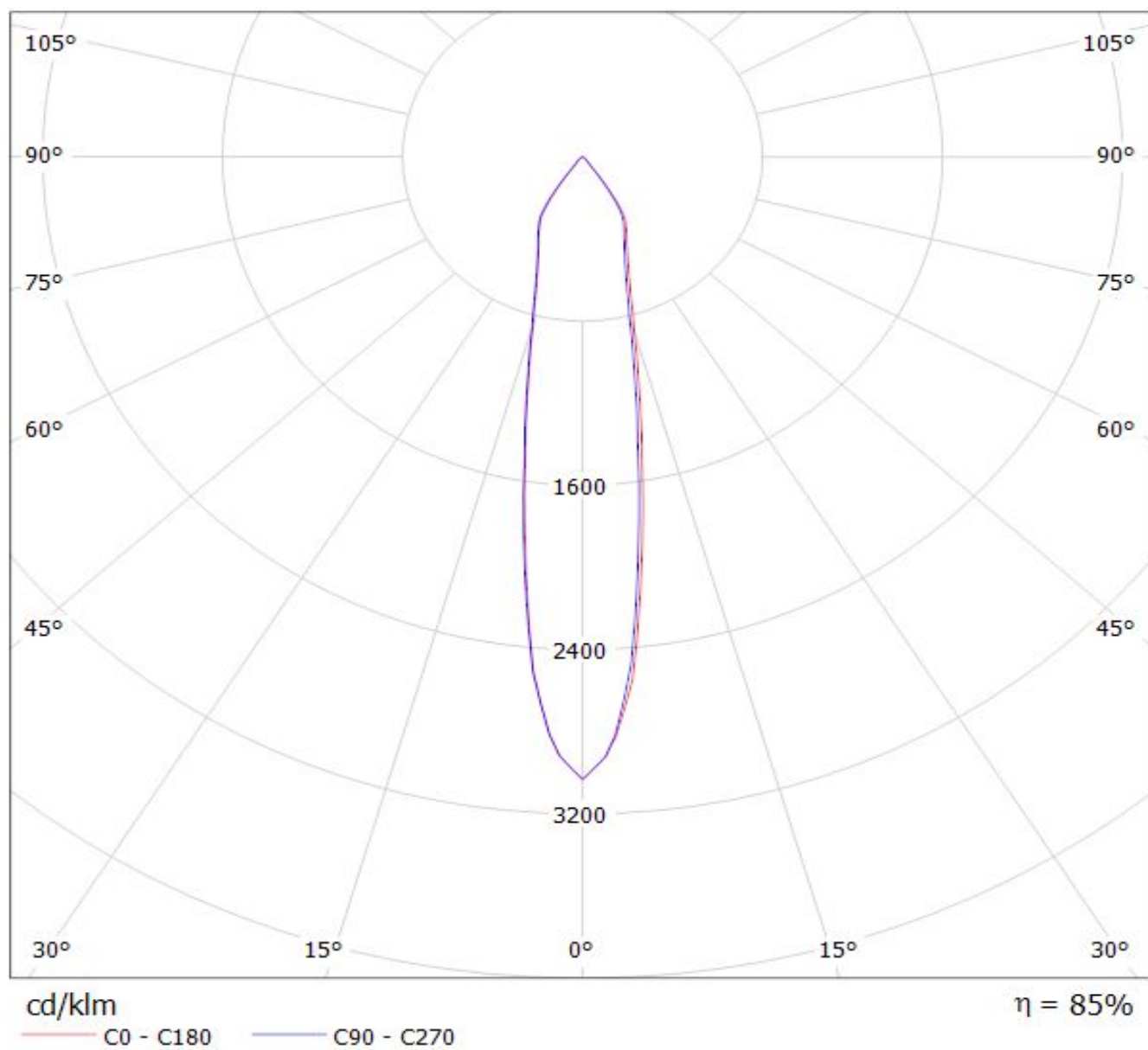
Luminaire: LEDiL Oy F13380_ANGELA-M_(WU-M-462-827)

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



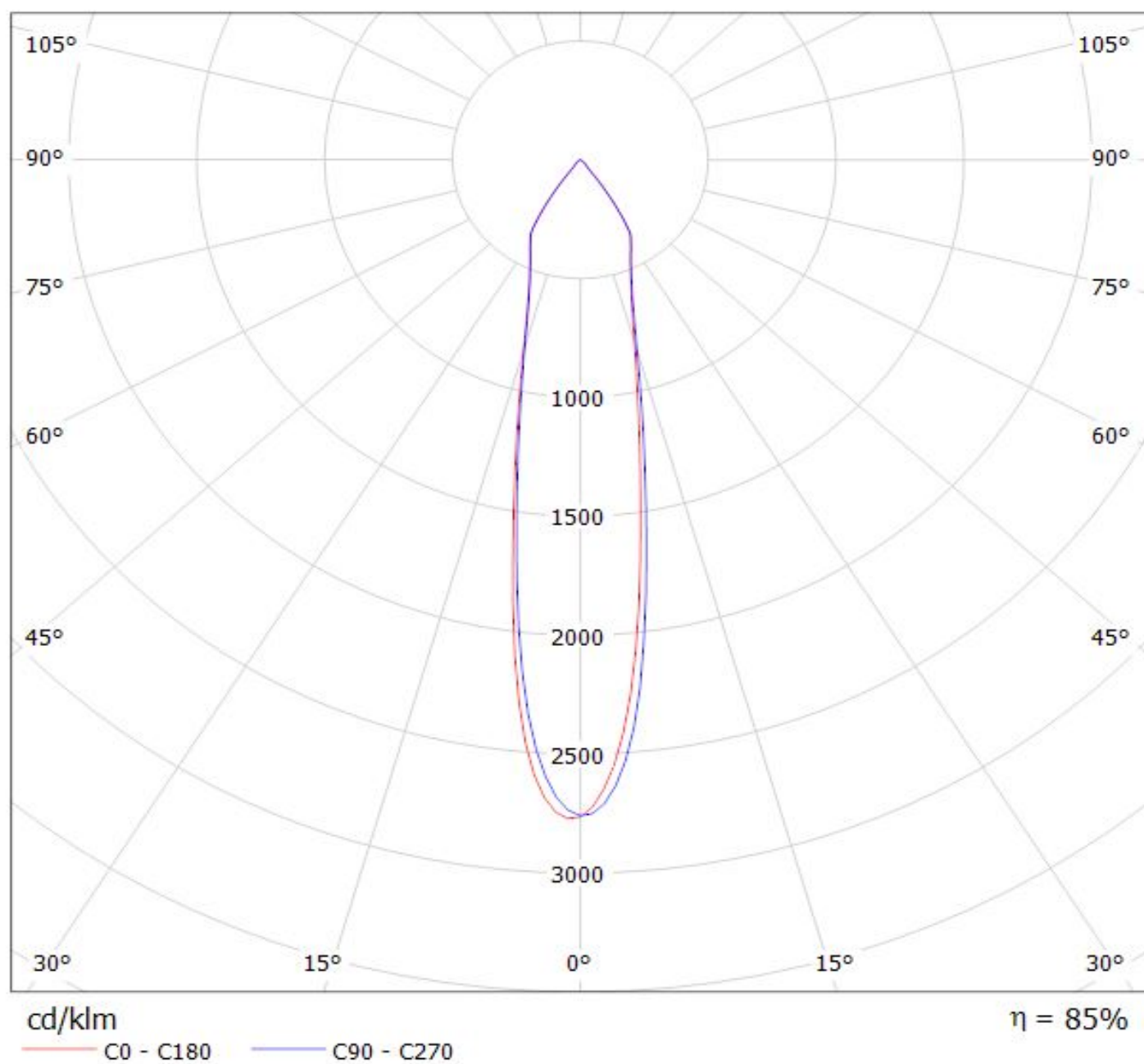
Luminaire: LEDiL Oy F13380_ANGELA-M_(WU-M-464-827)

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



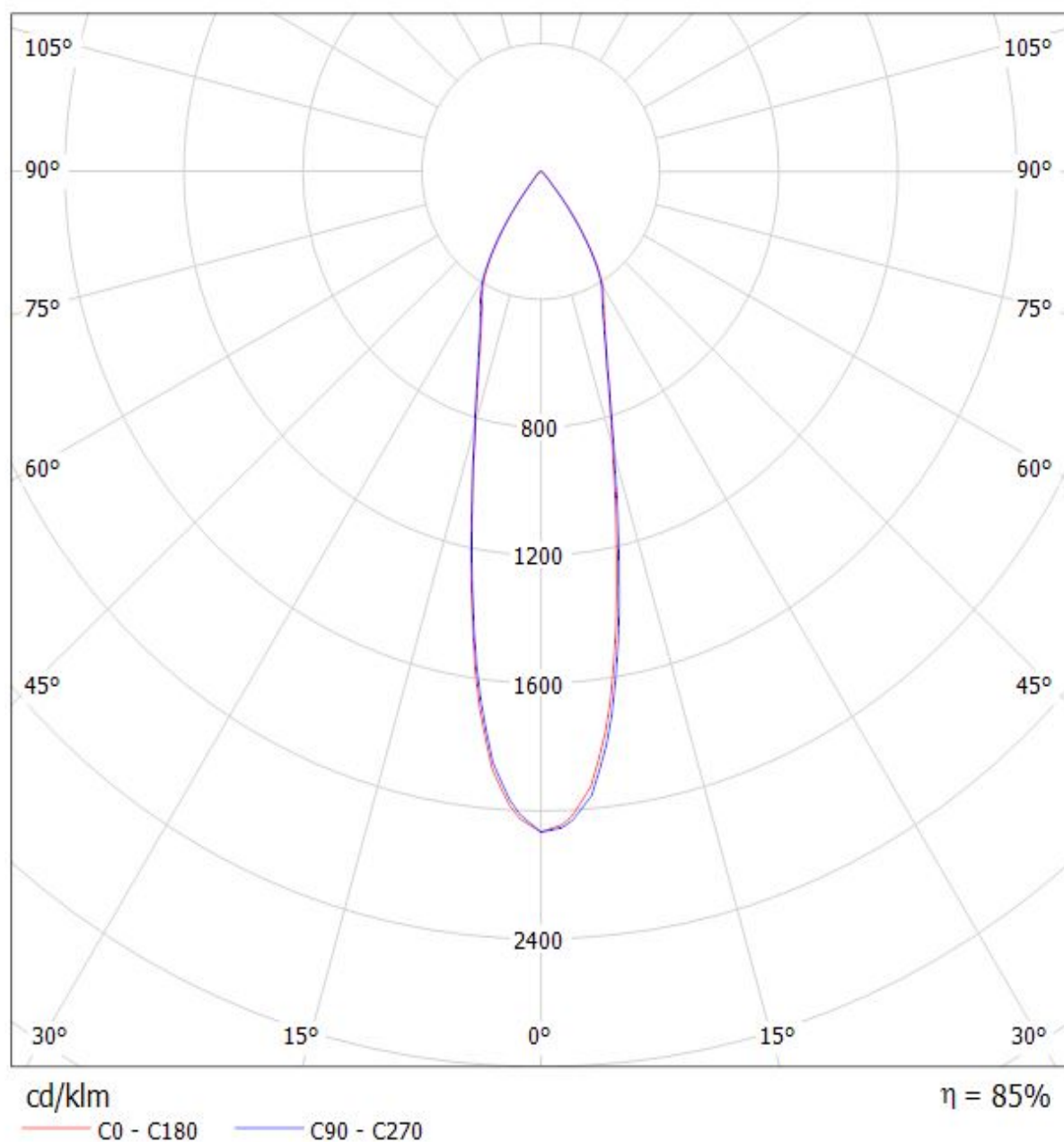
Luminaire: LEDiL Oy F13380_ANGELA-M_(STARK_LES23) Eff. 85.3%

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



Luminaire: LEDiL Oy F13380_ANGELA-M_(CXA3590)

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