

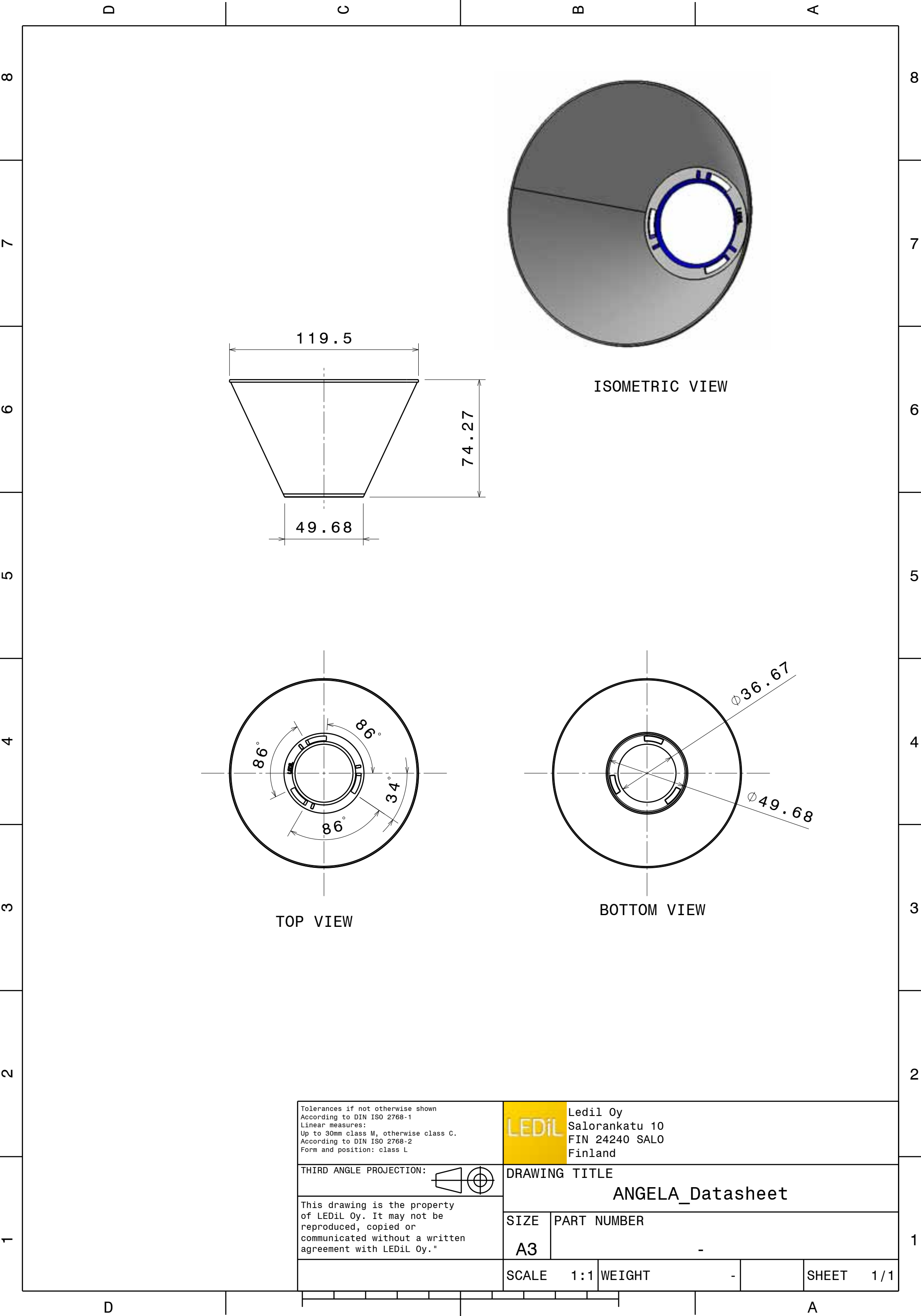
DETAILS

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	ready
ROHS Compliant	Yes
Date Updated	21/10/2014



OPTICAL PROPERTIES

LED	Viewing Angle	Light Beam	Efficiency	cd/lm	Connector
PrevaLED Core Z3 LES9	28 deg	Wide	84 %	1.960	TE: Z50 Optic Clip part nr. 2213194-1
L121A/L060B/L024Z	28 deg	Wide	87 %	2.300	TE: Solderless Connector part nr. 2213382-2 + Z50 Optic Clip part nr.
PrevaLED Core AC (LEP-800)	29 deg	Wide	84 %	1.880	TE: Z50 Optic Clip part nr. 2213194-1
CLU720	29 deg	Wide	85 %	1.800	IDEAL: 50-2103CT + Angela(50-2100AN)
Fortimo LED SLM L9 G4 standard	30 deg	Wide	84 %	1.800	TE: Z50 Optic Clip part nr. 2213194-1
CLL03x/CLU034	30 deg	Wide	83 %	1.800	IDEAL: 50-2103CT + Angela(50-2100AN)
Fortimo LED SLM L13 G4 standard	32 deg	Wide	84 %	1.700	TE: Z50 Optic Clip part nr. 2213194-1
CLU720	32 deg	Wide	85 %	1.700	TE: part nr. 2213254-2 + Z50 Optic Clip part nr. 2213194-1
SLE G4 LES19 H	32 deg	Wide	82 %	1.700	TE: Z50 Optic Clip part nr. 2213194-1
LUXEON CoB 1204/1205	33 deg	Wide	84 %	1.680	TE: part nr. 2213130-2 + Z50 Optic Clip part nr. 2213194-1
PrevaLED Core Z3 LES19	33 deg	Wide	83 %	1.650	TE: Z50 Optic Clip part nr. 2213194-1
Soleriq P13	33 deg	Wide	84 %	1.660	TE: part nr. 2213401-2 + Z50 Optic Clip part nr. 2213194-1
Soleriq S13	33 deg	Wide	85 %	1.800	TE: part nr. 2213401-2 + Z50 Optic Clip part nr. 2213194-1
J216A/J130B/J108B/J048Z	33 deg	Wide	82 %	1.790	IDEAL: 50-2103NC + Angela(50-2100AN)
LUXEON CoB 1208	34 deg	Wide	84 %	1.660	TE: part nr. 2213130-2 + Z50 Optic Clip part nr. 2213194-1
CXM-14	34 deg	Wide	84 %	1.660	TE: part nr 2213254-2 + Z50 Optic Clip part nr. 2213194-1
PrevaLED Core AC (LEP-2000)	34 deg	Wide	84 %	1.670	TE: Z50 Optic Clip part nr. 2213194-1
Fortimo LED SLM L15 G4 standard	34 deg	Wide	84 %	1.600	TE: Z50 Optic Clip part nr. 2213194-1
PrevaLED Core Z4 LES19	34 deg	Wide	84 %	1.700	TE: Z50 Optic Clip part nr. 2213194-1
WU-M-484	35 deg	Wide	83 %	1.570	TE: Z50 Optic Clip part nr. 2213194-1
Soleriq S19	35 deg	Wide	84 %	1.610	TE: part nr. 2213407-2 + Z50 Optic Clip part nr. 2213194-1
L121A/L060B/L024Z	35 deg	Wide	85 %	1.610	Molex: part nr. 180580-0005
STARK SLE G3 LES19	36 deg	Wide	84 %	1.560	TE: Z50 Optic Clip part nr. 2213194-1
LC026B/LC040B	36 deg	Wide	84 %	1.500	TE: part nr. 2213258-2 + Z50 Optic Clip part nr. 2213194-1
Fortimo LED SLM L19 G4 standard	37 deg	Wide	83 %	1.500	TE: Z50 Optic Clip part nr. 2213194-1



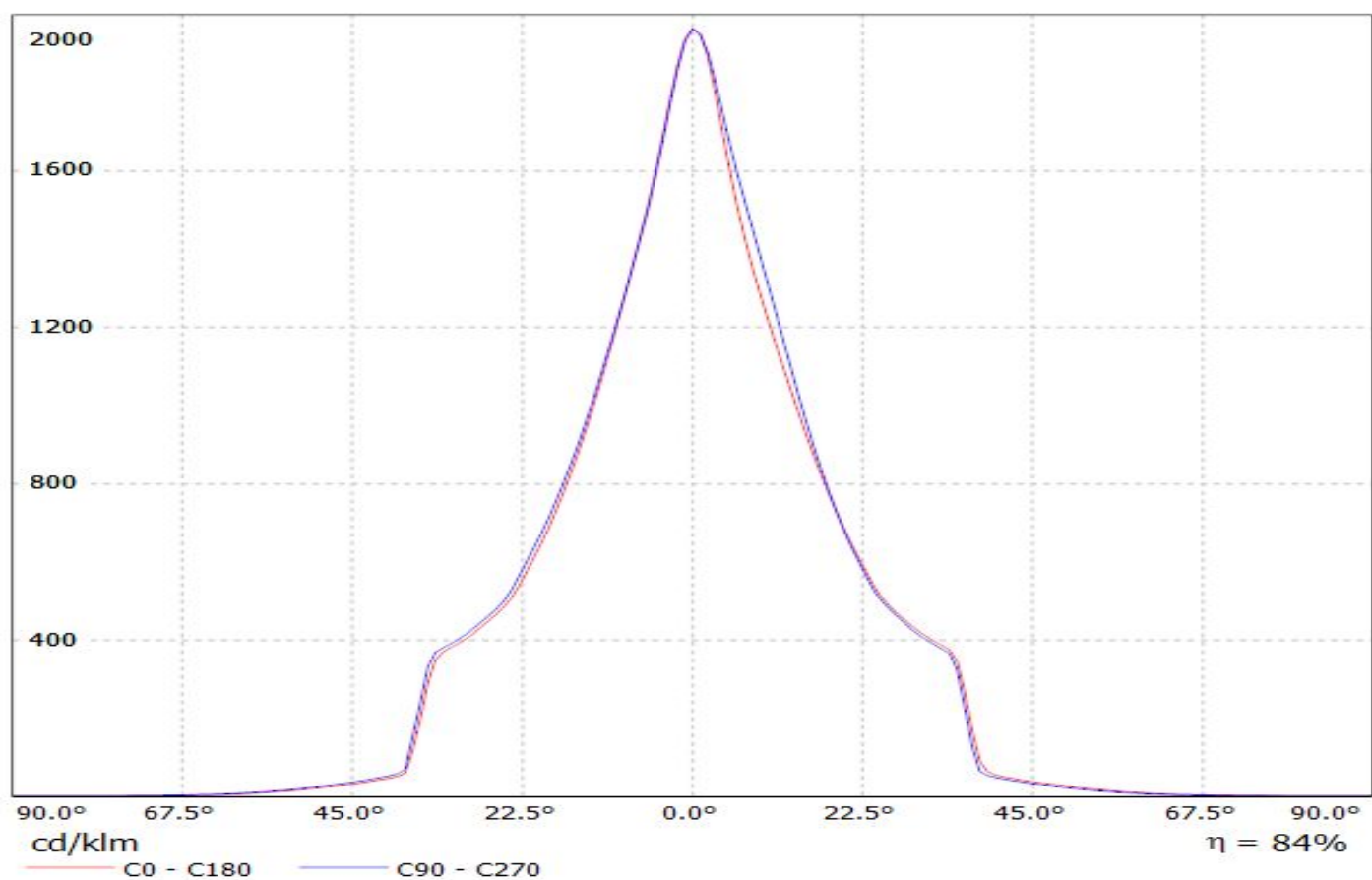
Tolerances if not otherwise shown
According to DIN ISO 2768-1
Linear measures:
Up to 30mm class M, otherwise class C.
According to DIN ISO 2768-2
Form and position: class L

THIRD ANGLE PROJECTION:

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

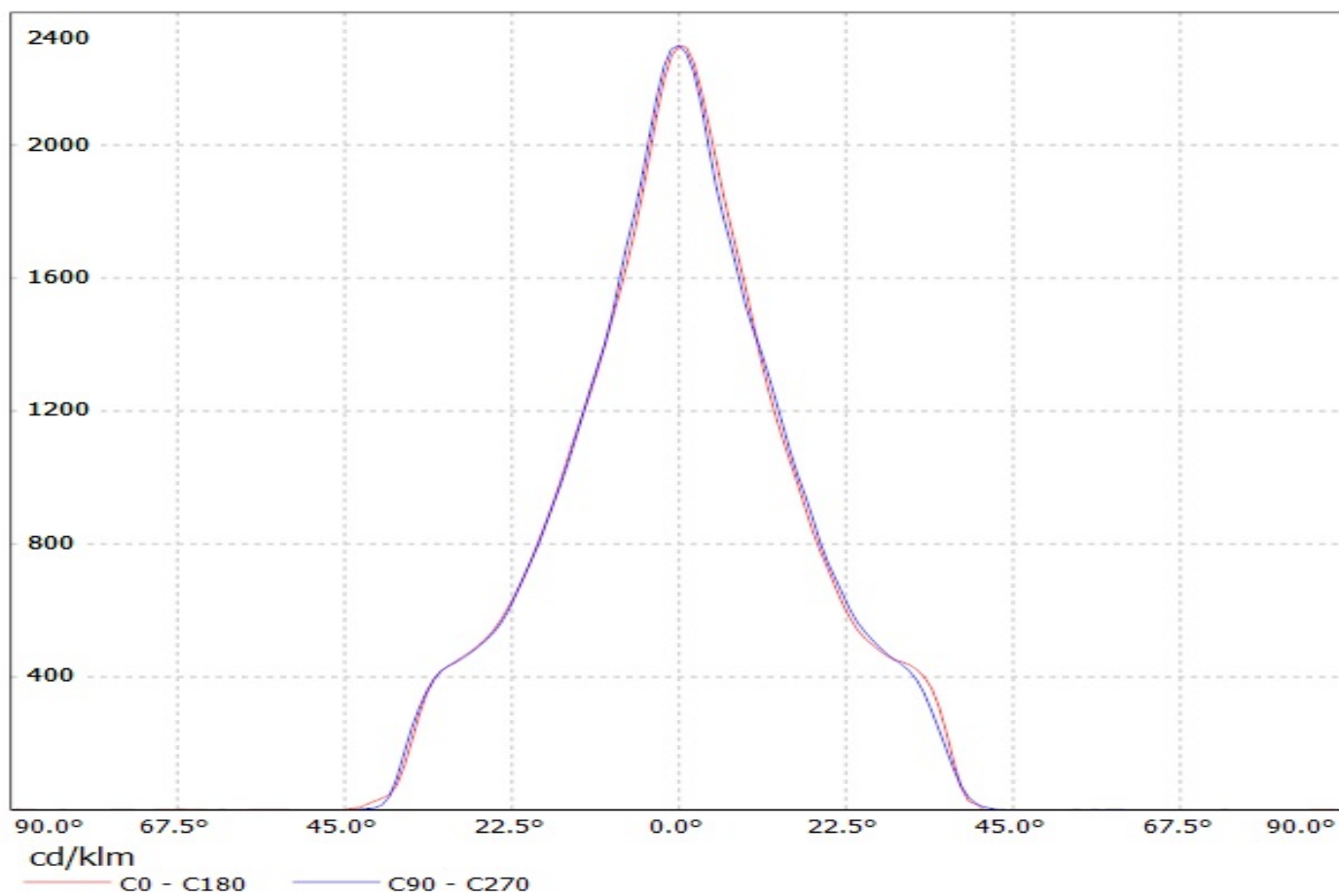
LEDiL Ledil Oy Salorankatu 10 FIN 24240 SALO Finland		DRAWING TITLE ANGELA_Datasheet							
SIZE	PART NUMBER								
A3	-								
SCALE	1:1	WEIGHT	-		SHEET	1 / 1			

Luminaire: LEDiL Oy F13381_ANGELA-W_(PrevaLED_LES9)
Lamps: 1 x Osram_PrevaleLED_Core_Z3_LES9_(PL-CORE-1100-830-Z3)
_1132.95lm@250mA_P=12.1952W_I=249.8mA



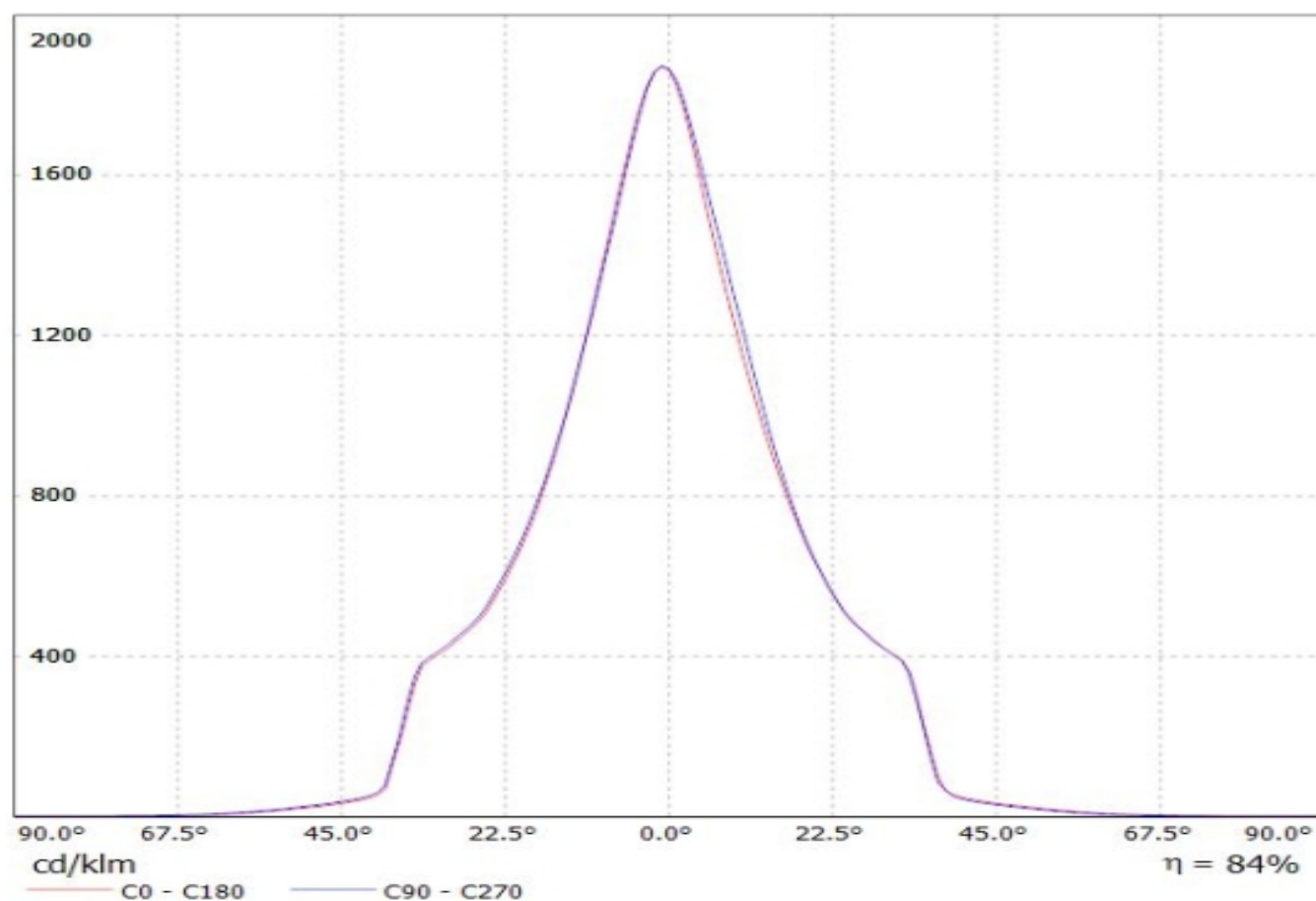
Luminaire: LEDil Oy F13381_ANGELA-W_(NFCxL060B)

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

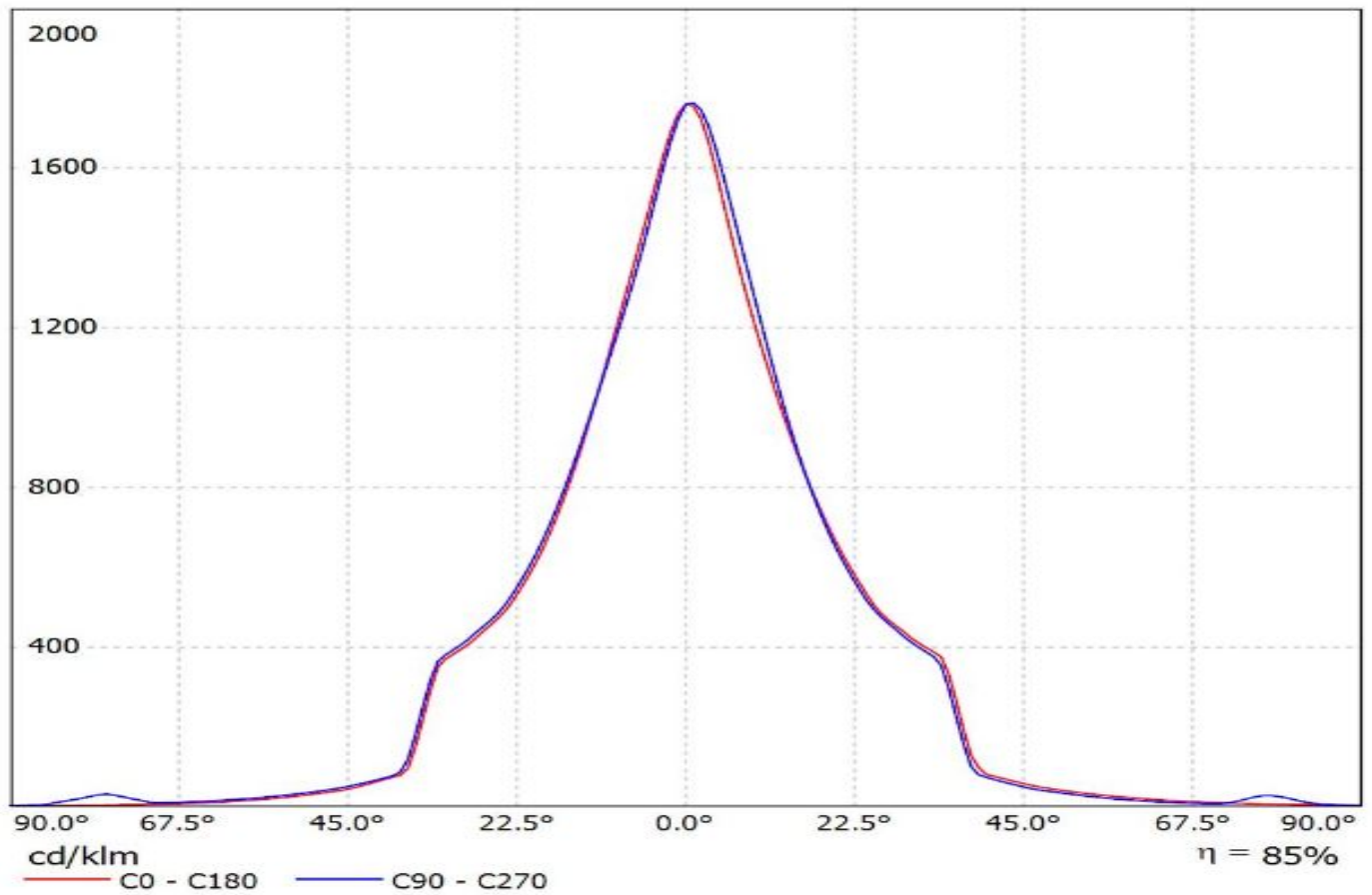


Luminaire: LEDiL Oy F13381_ANGELA-W_(LEP-800-827-C-AC)

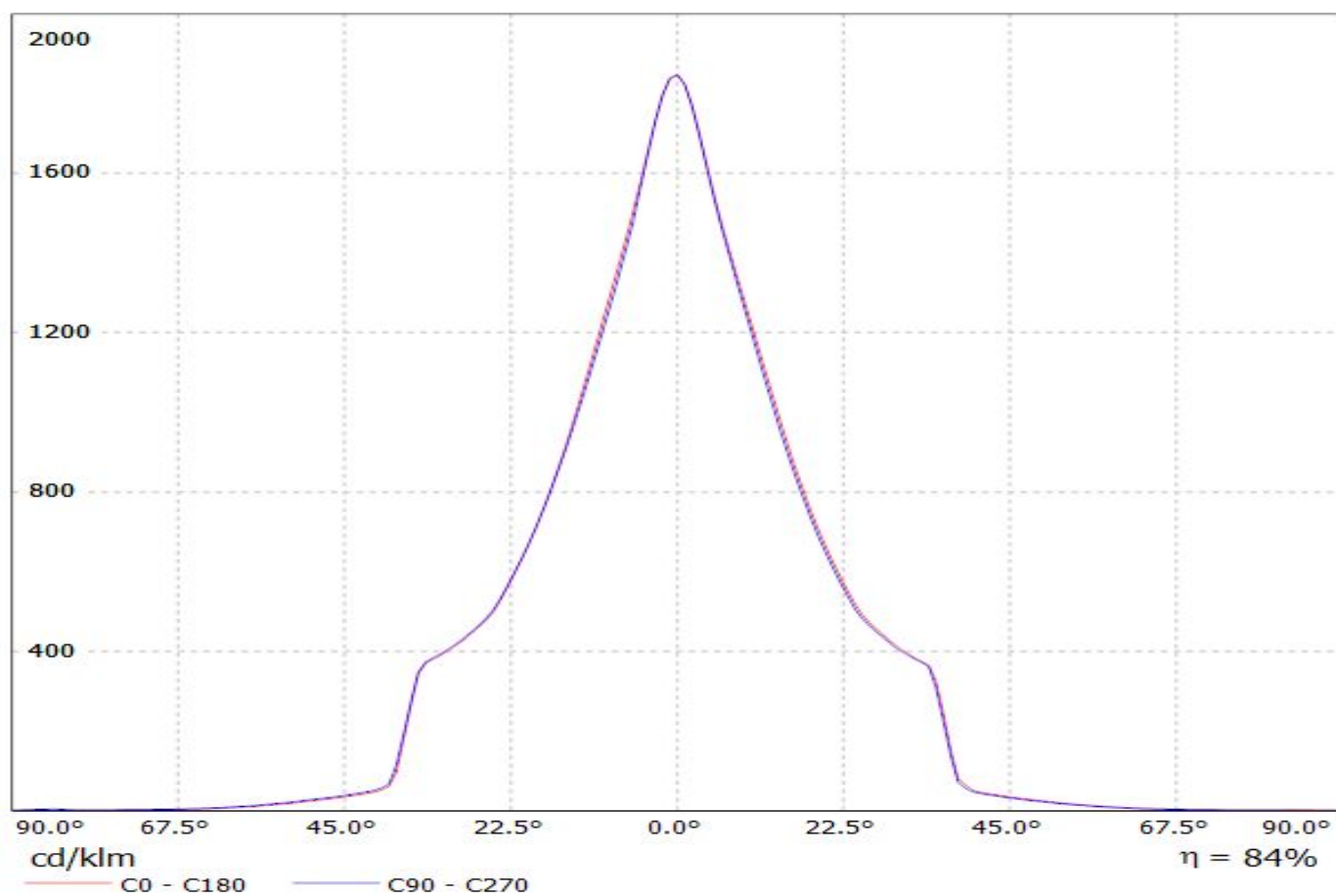
Lamps: 1 x OSRAM PrevaLED Core AC (LEP-800-827-C-AC) 910lm@60mA U:230V P:14W



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

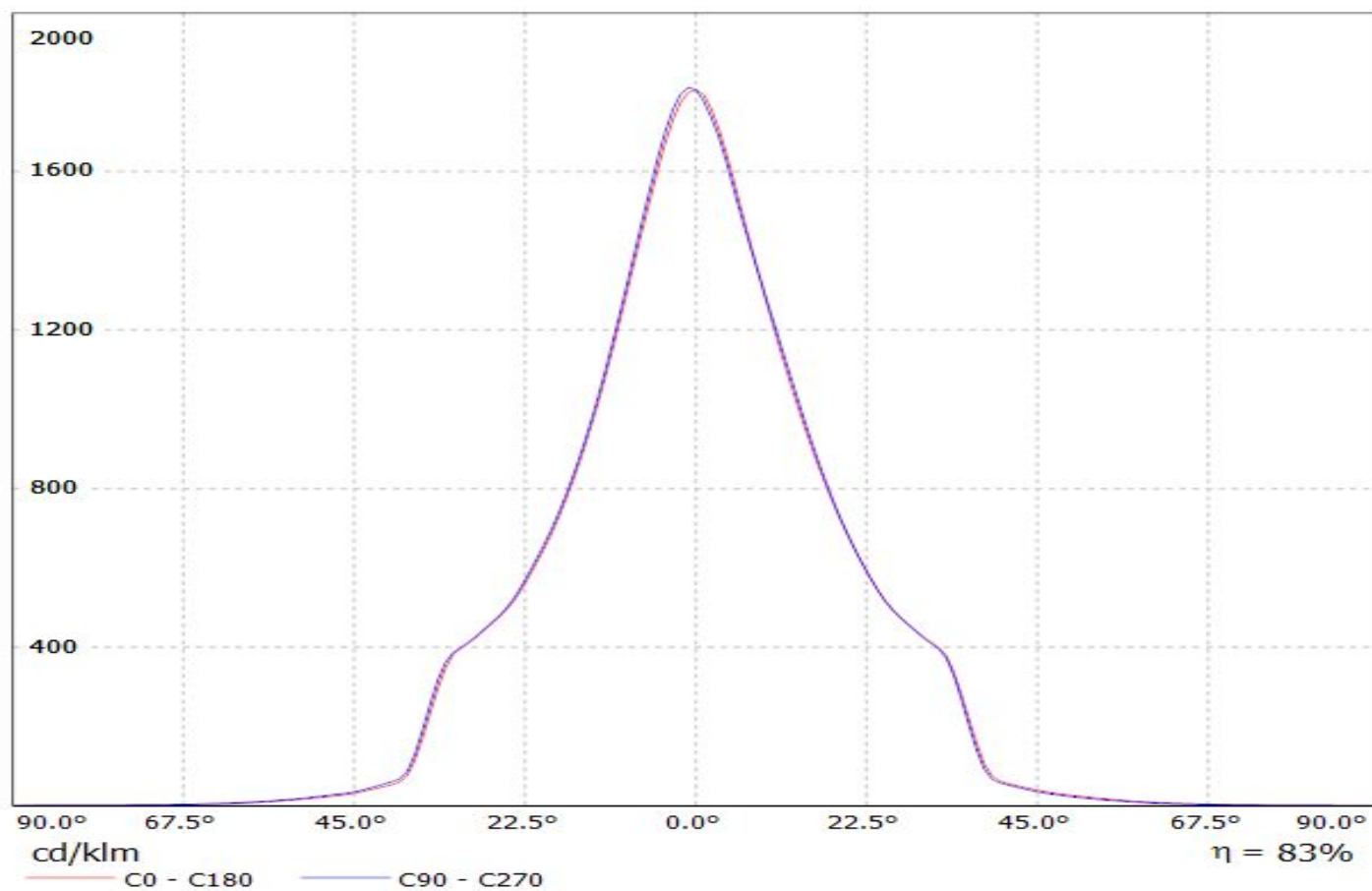


Luminaire: LEDiL Oy F13381_ANGELA-W_(Fortimo LED SLM 1100 lm 830 L9 G4)
Lamps: 1 x Fortimo LED SLM 1100 lm 830 L9 G4_1021.27lm@250mA_P=9.2431W_I=0.2498A



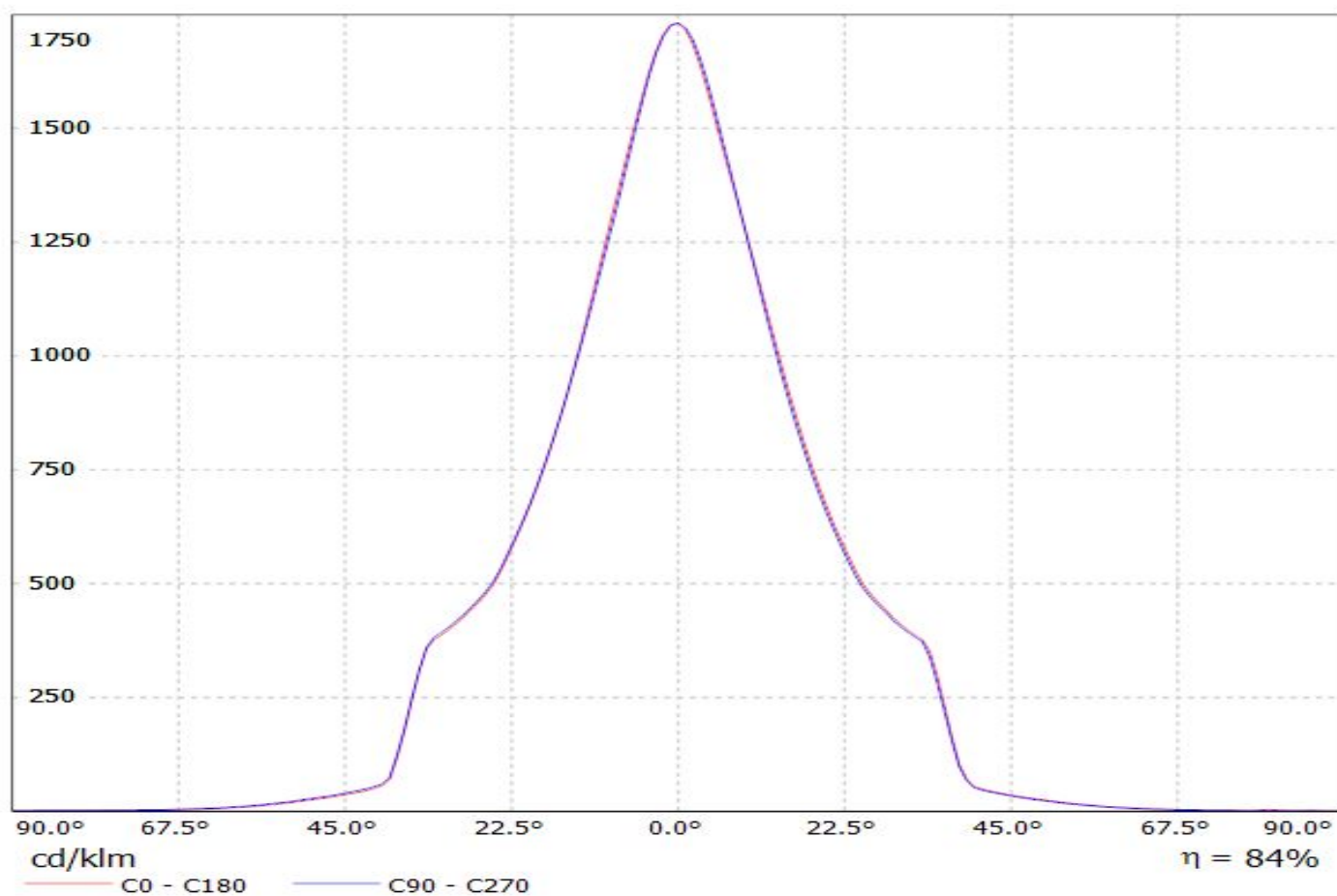
Luminaire: LEDiL Oy F13381_ANGELA-W_(CLL030)

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



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

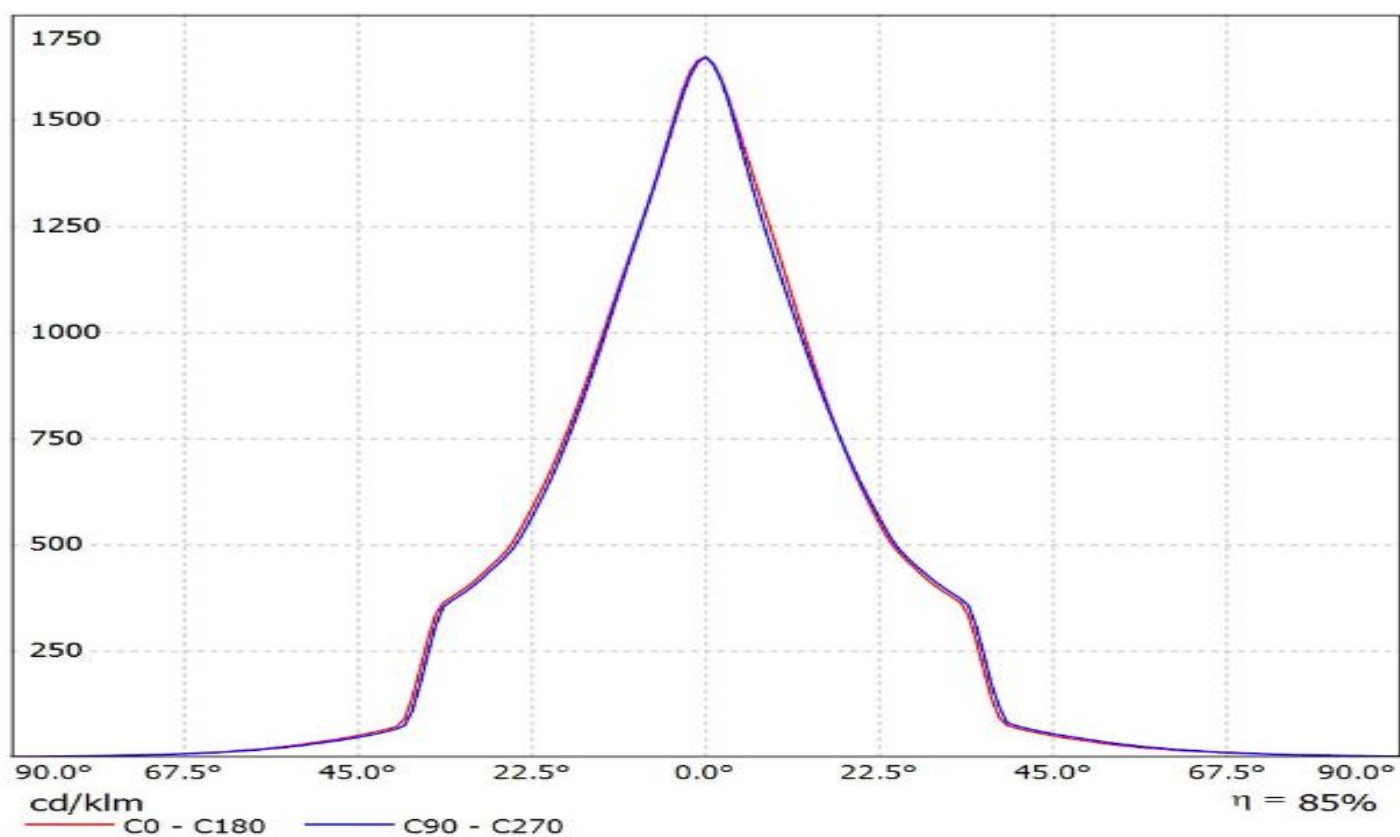


Ledil F13381_ANGELA-W_(CLU720) / LDC (Linear)

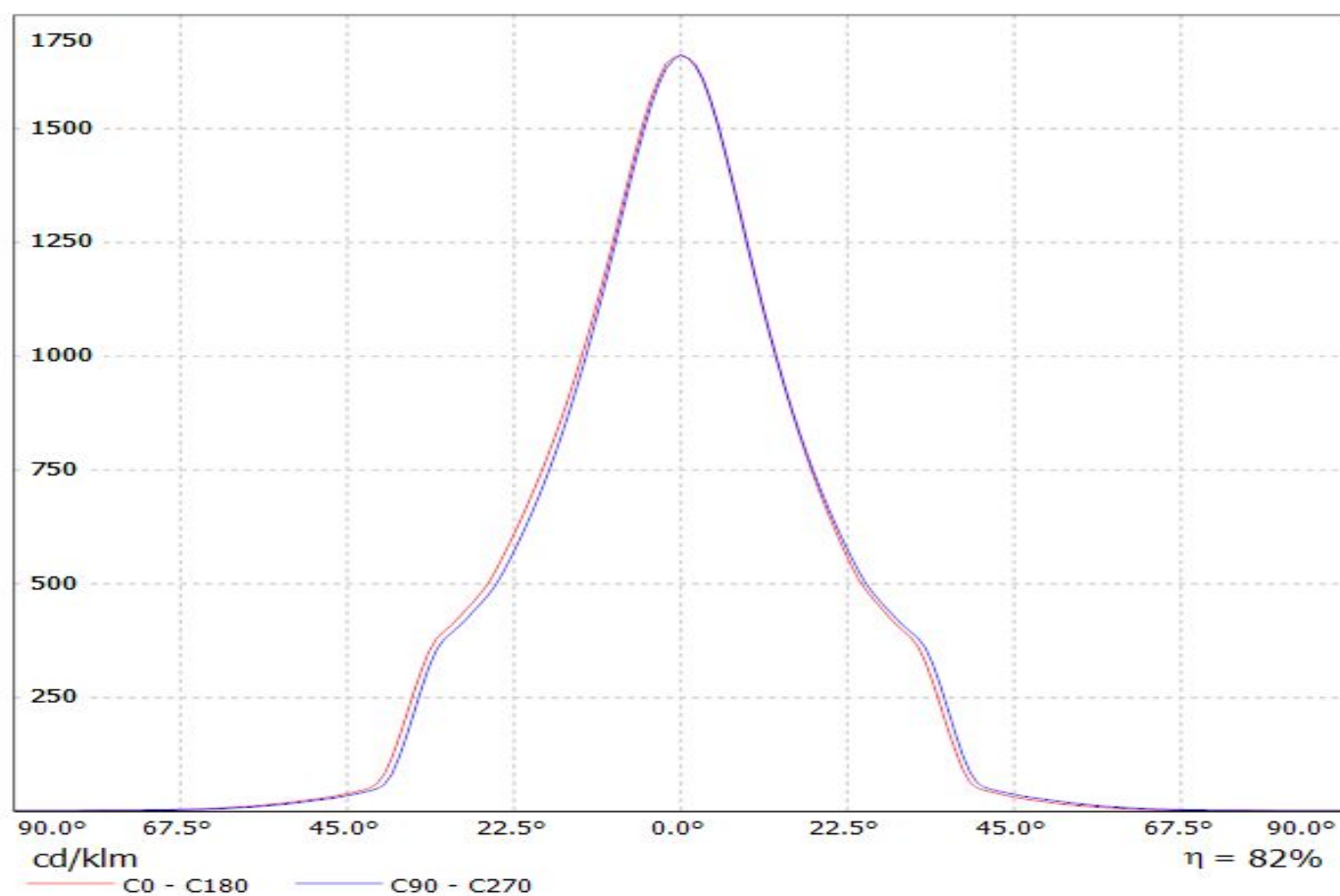
Luminaire: Ledil F13381_ANGELA-W_(CLU720)

Lamps: 1 x CITIZEN_CLU720_(CLU720-1206B8-273M2)

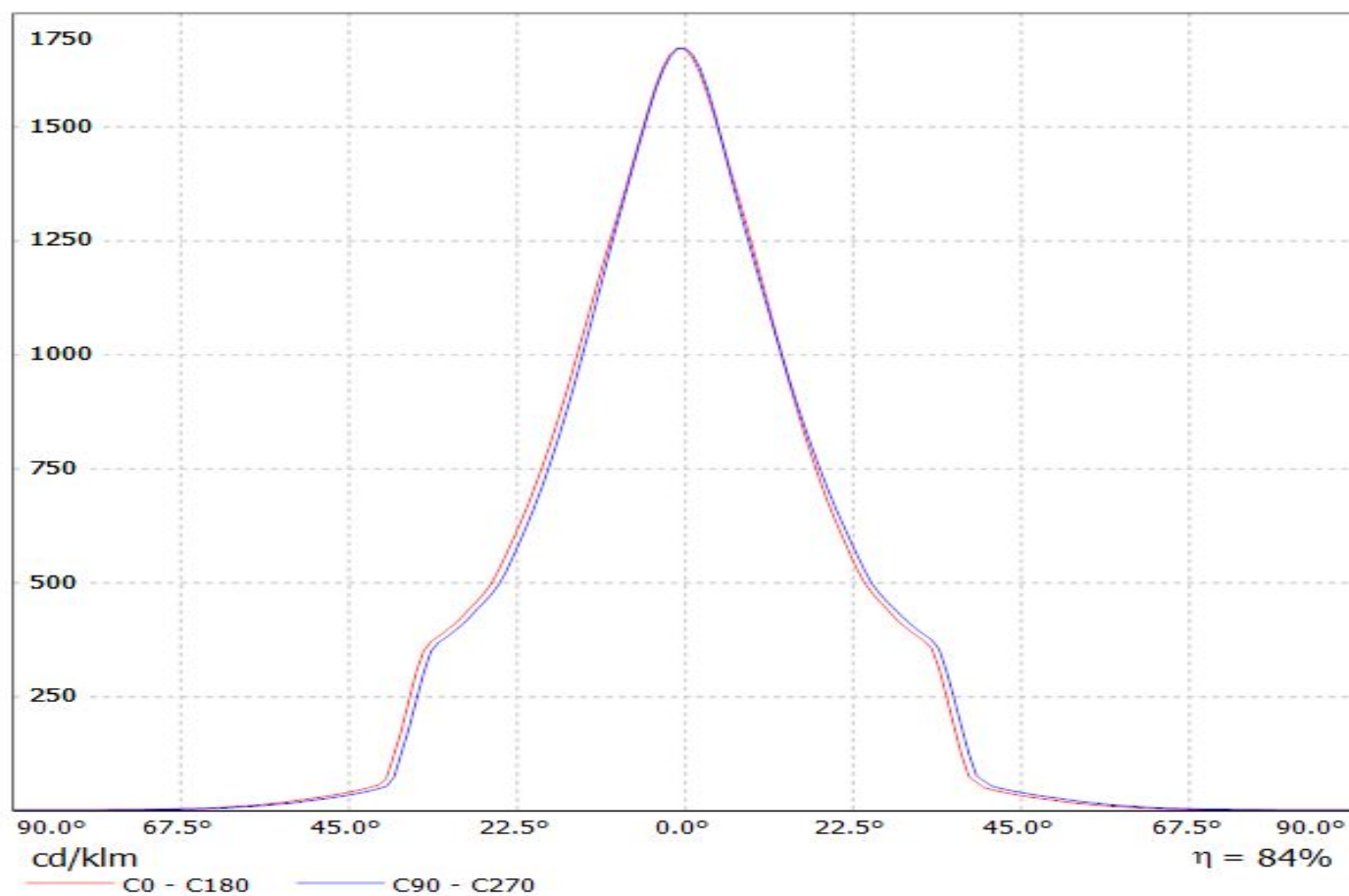
_1344.79lm@250mA_CCT=2700K_P=8.35W_I=0.25A



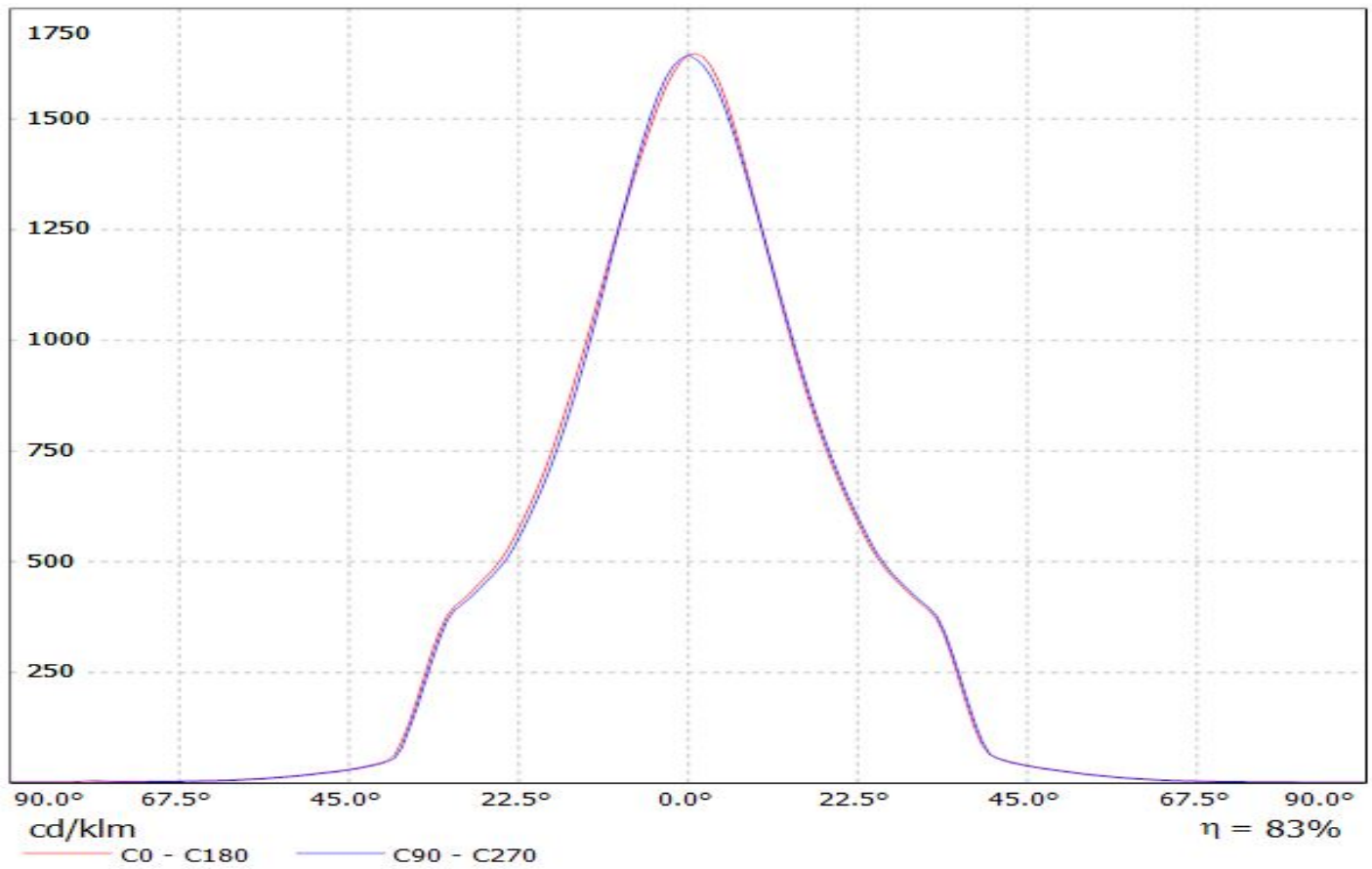
Luminaire: LEDiL Oy F13381_ANGELA-W_(SLE GEN4 LES19)
Lamps: 1 x SLE GEN4 LES19_1227.01lm@250mA_P=8.21492W_I=0.2498A



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

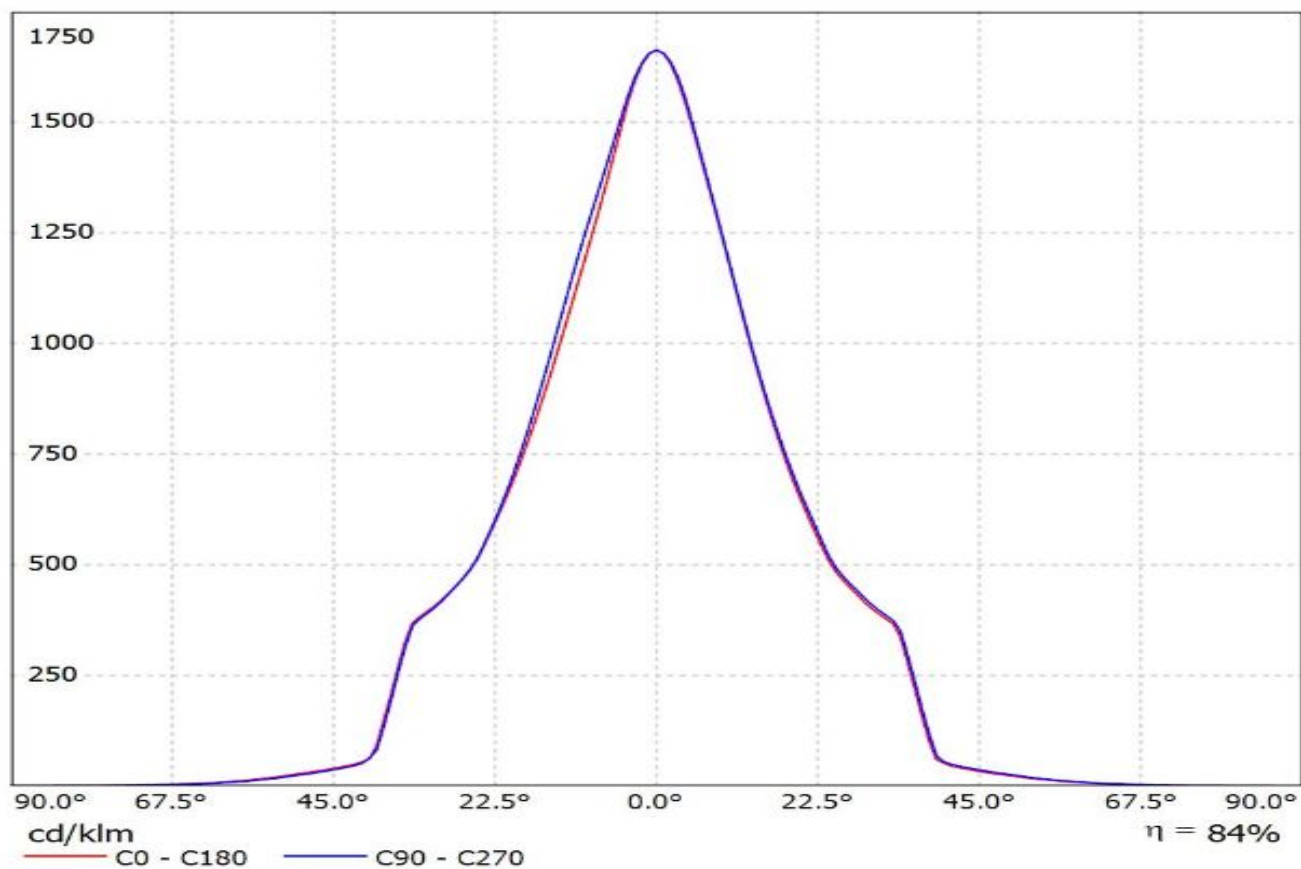


Luminaire: LEDiL Oy F13381_ANGELA-W_(PrevaLED_LES19)
Lamps: 1 x Osram_PrevaLED_CORE_Z3_LES19_(PL-CORE-2000-830-Z3)
_1356.73lm@250mA_P=10.5228W_I=249.9mA

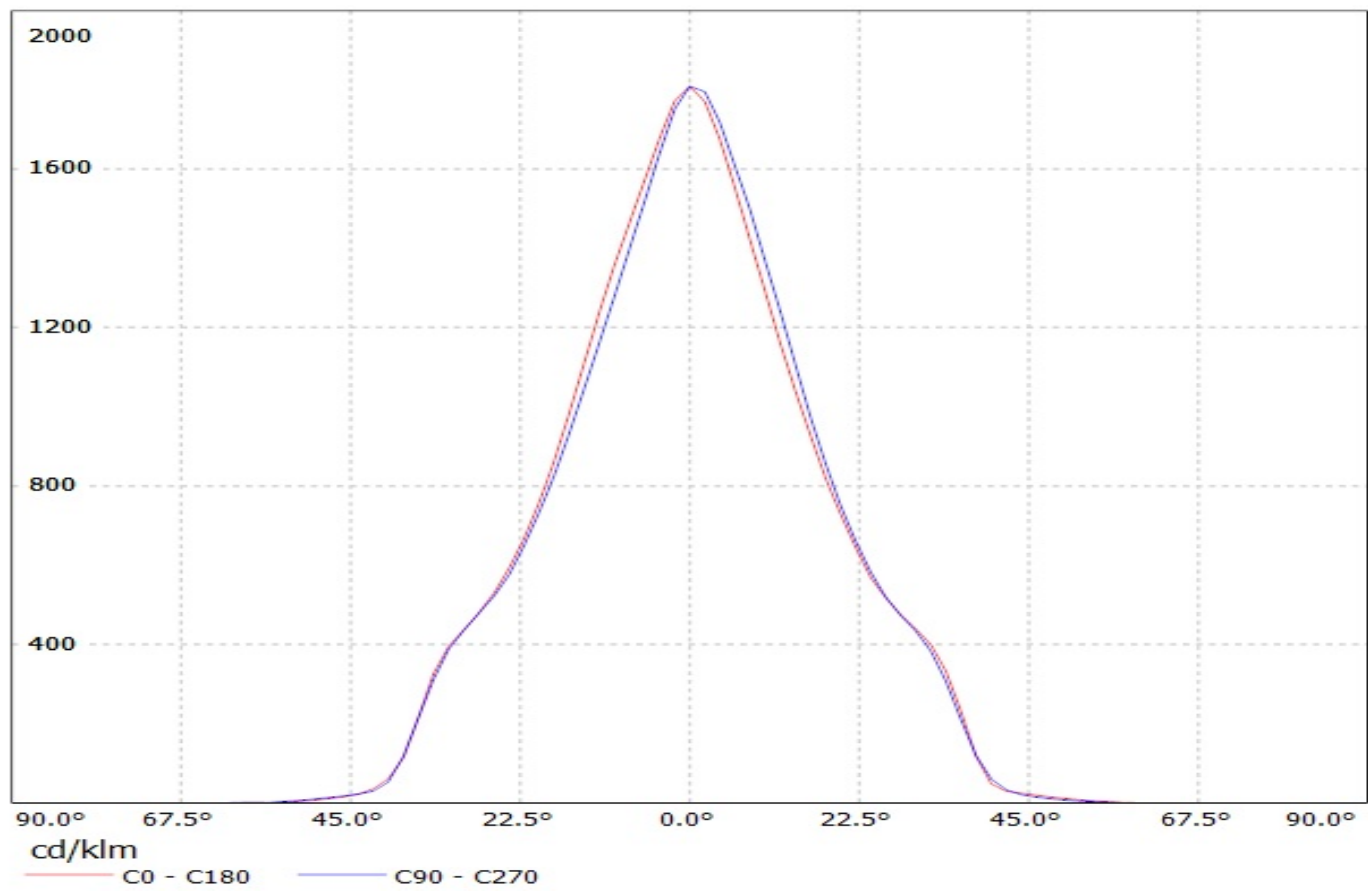


Luminaire: LEDiL Oy F13381_ANGELA-W_(SOLERIQ_P13)

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

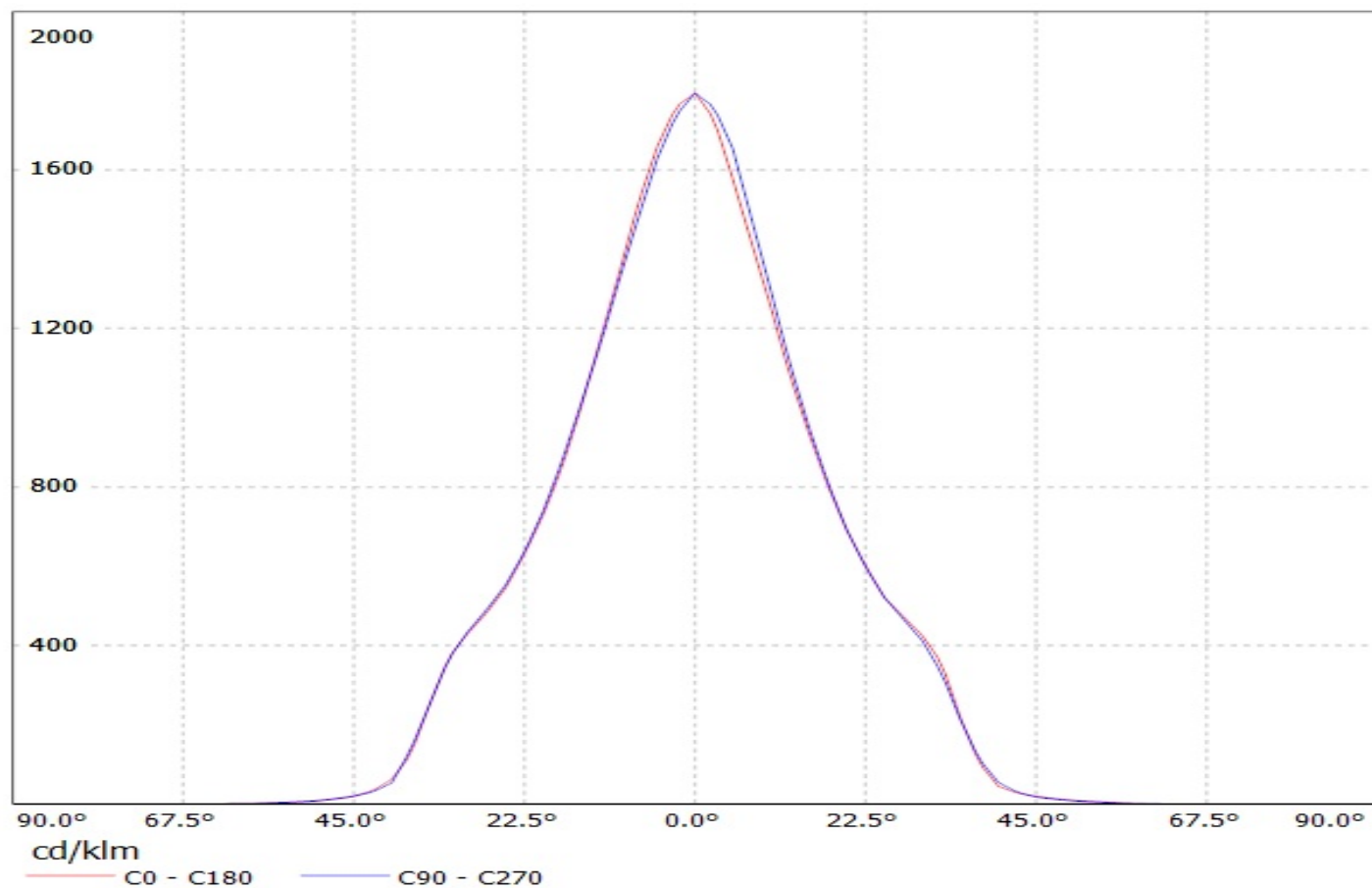


Luminaire: LEDil Oy F13381_ANGELA-W_(Soleriq_S13) Efficiency=85%
Lamps: 1 x Osram Soleriq S13 (GW KAGHB1.EM) 855lm @ 250mA CCT=3100K P=7.5W I=250mA

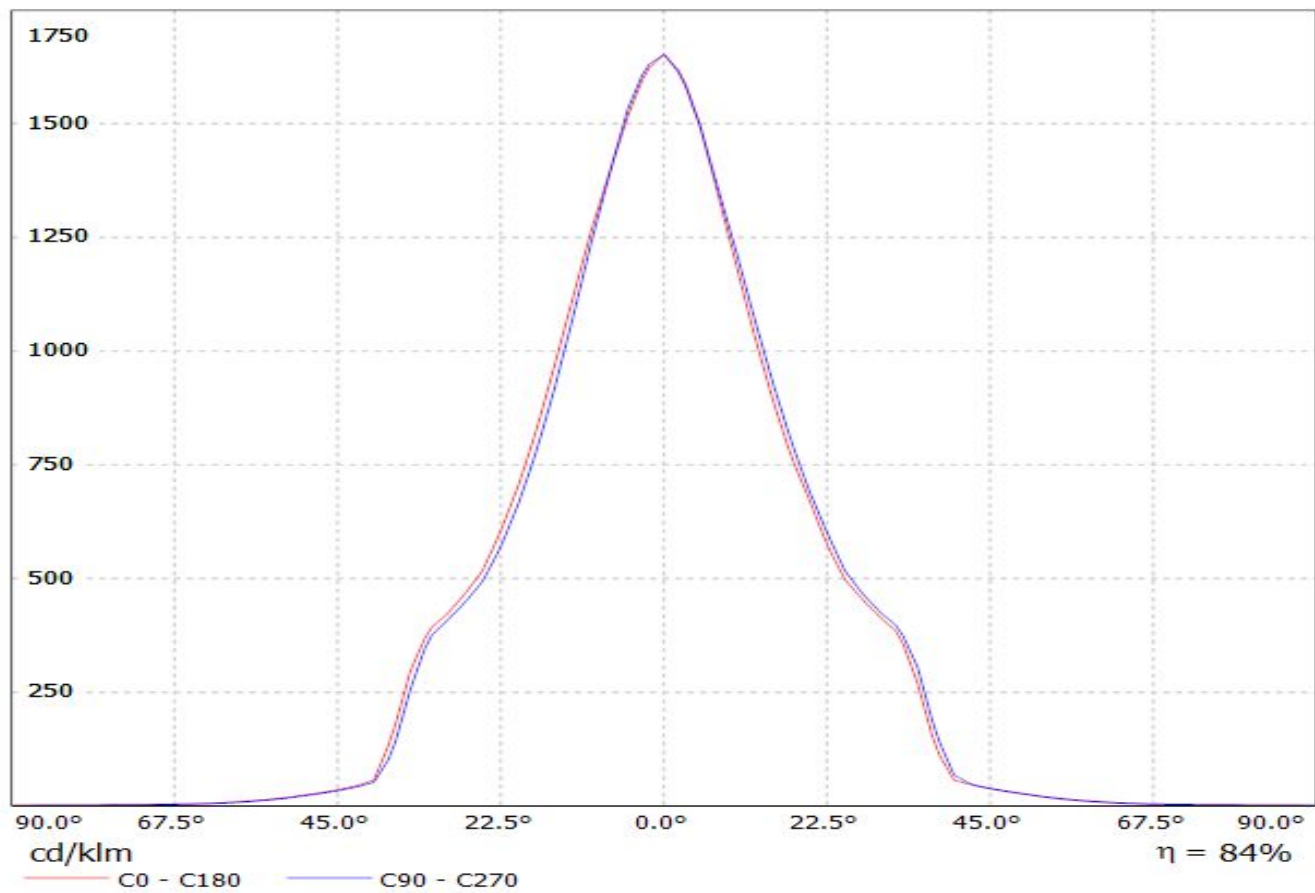


Luminaire: LEDil Oy F13381_ANGELA-W_(NFDxJ130B)

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

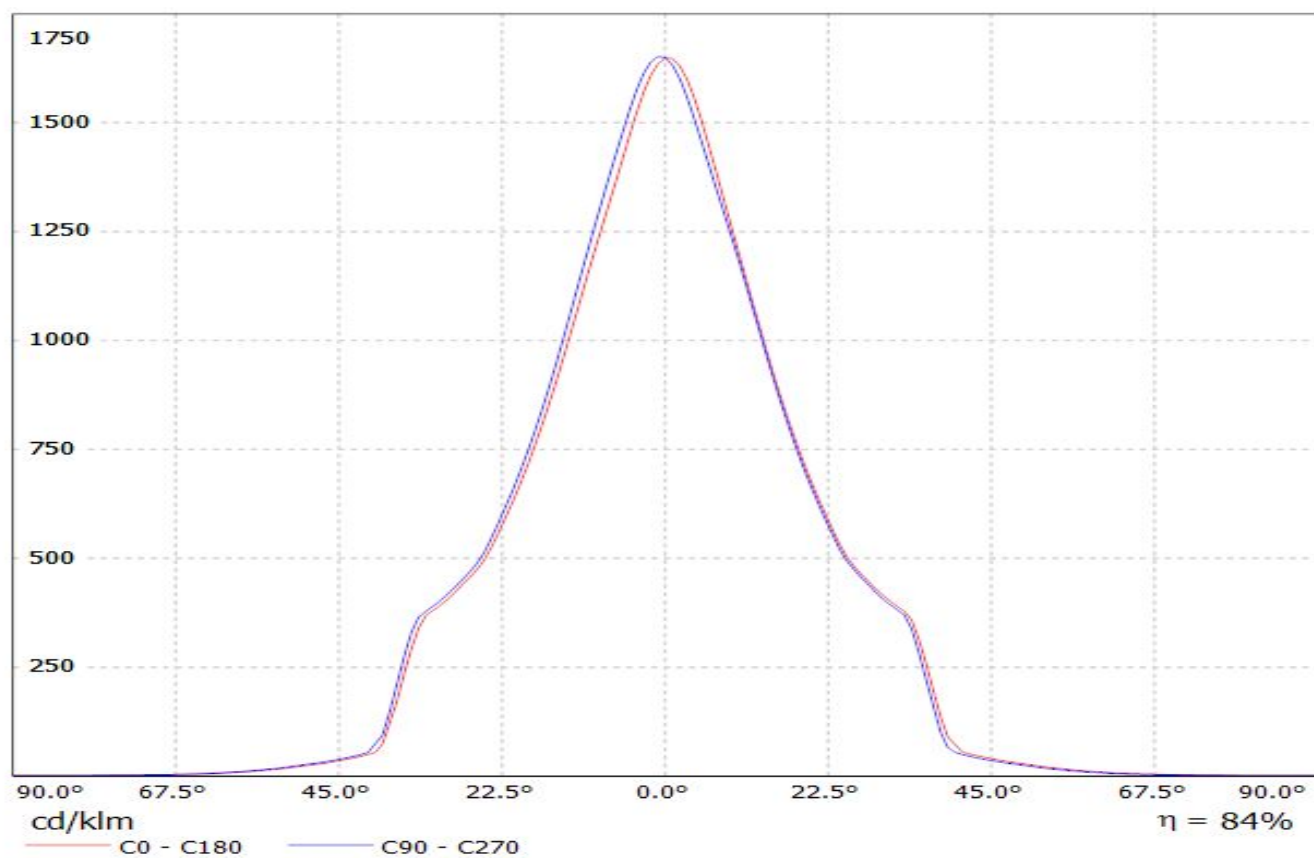


Luminaire: LEDiL Oy F13381_ANGELA-W_(COB_1208) Eff.83.8%
Lamps: 1 x Luxeon_COB_1208_1039.97lm@250mA_P=8.28793W_I=249.9mA

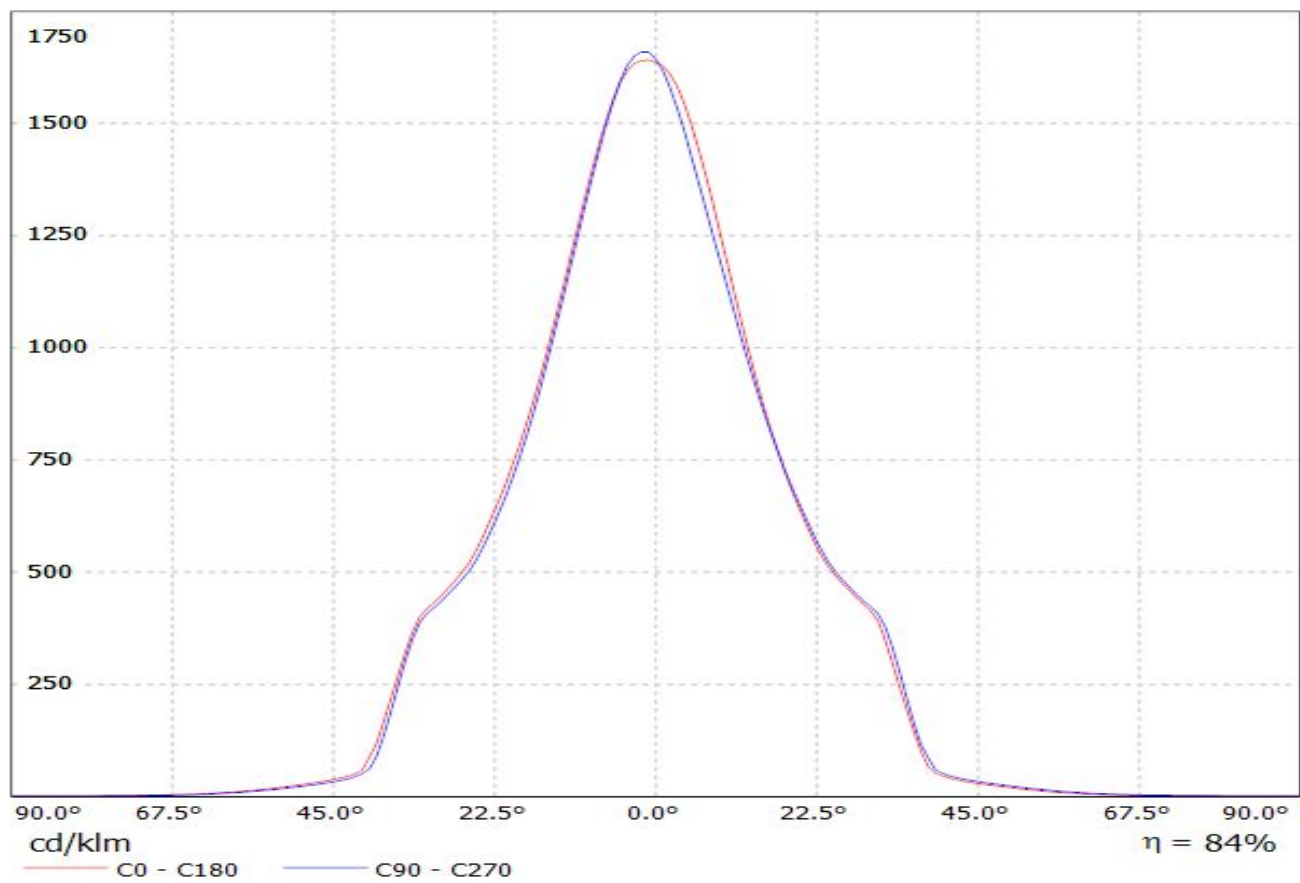


Luminaire: LEDiL Oy F13381_ANGELA-W_(CXM-14)

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

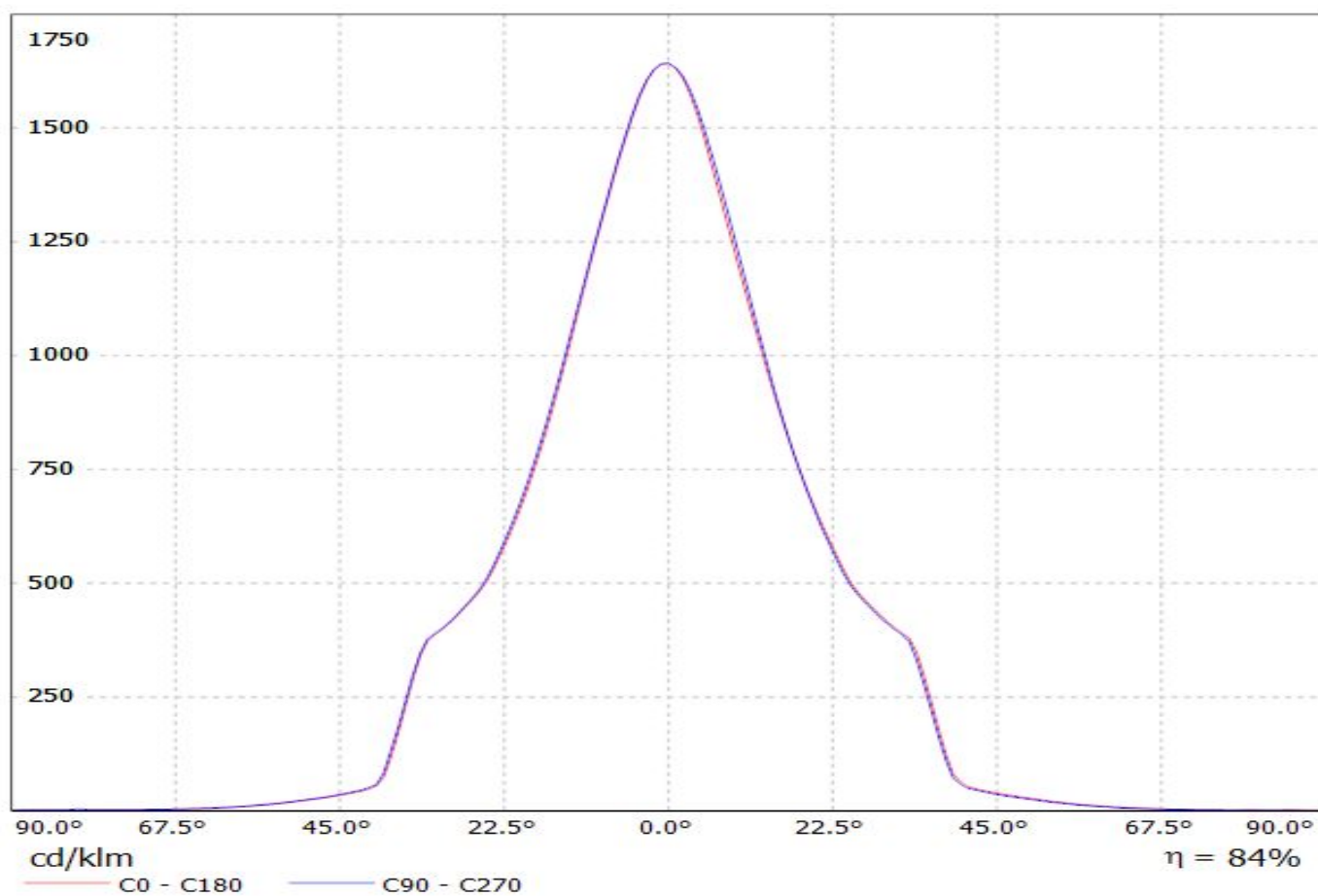


Luminaire: LEDiL Oy F13381_ANGELA-W_(LEP-2000-827-C-AC)
Lamps: 1 x OSRAM PrevaLED Core AC (LEP-2000-827-C-AC)



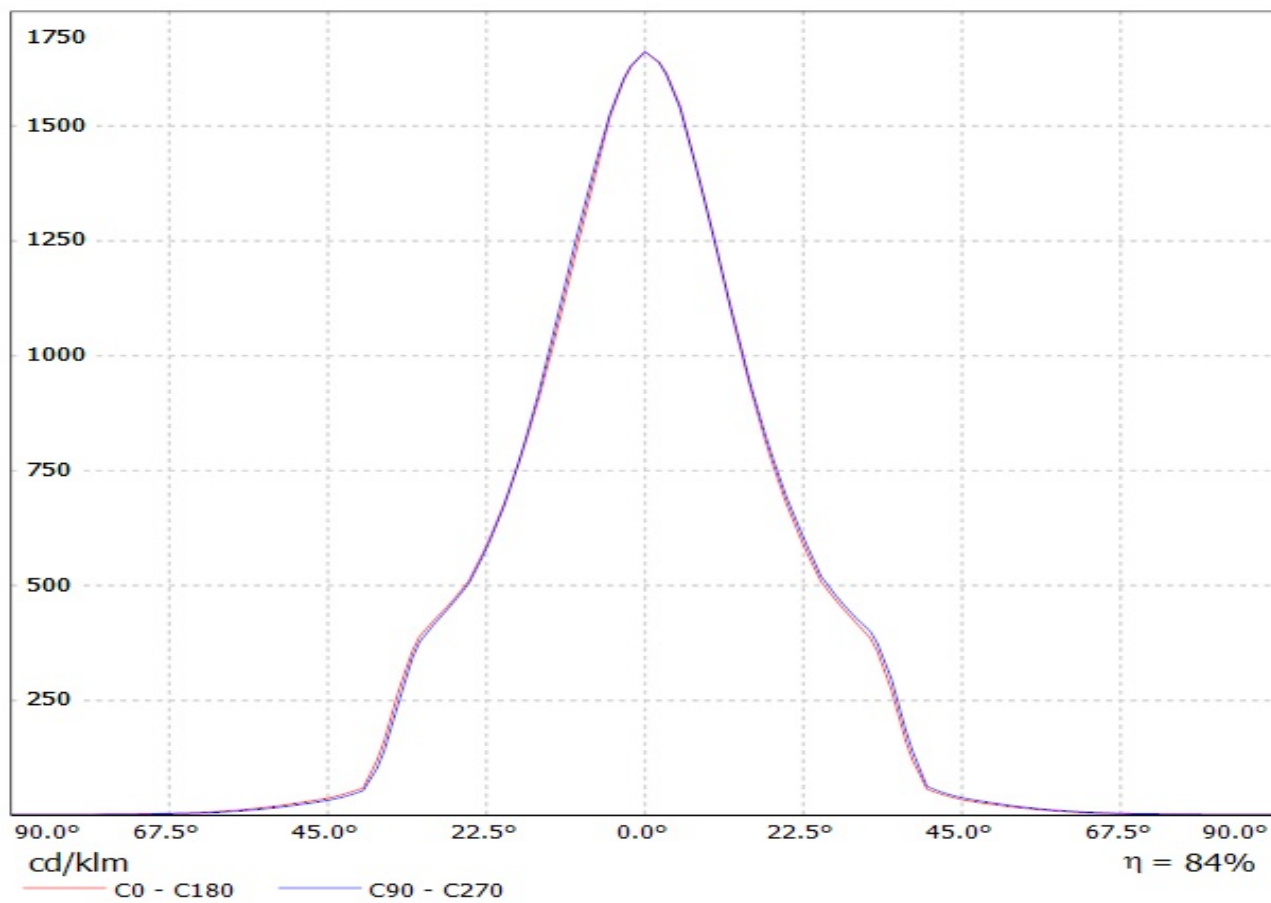
Luminaire: LEDiL Oy F13381_ANGELA-W_(Fortimo LED SLM L15 G4)

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



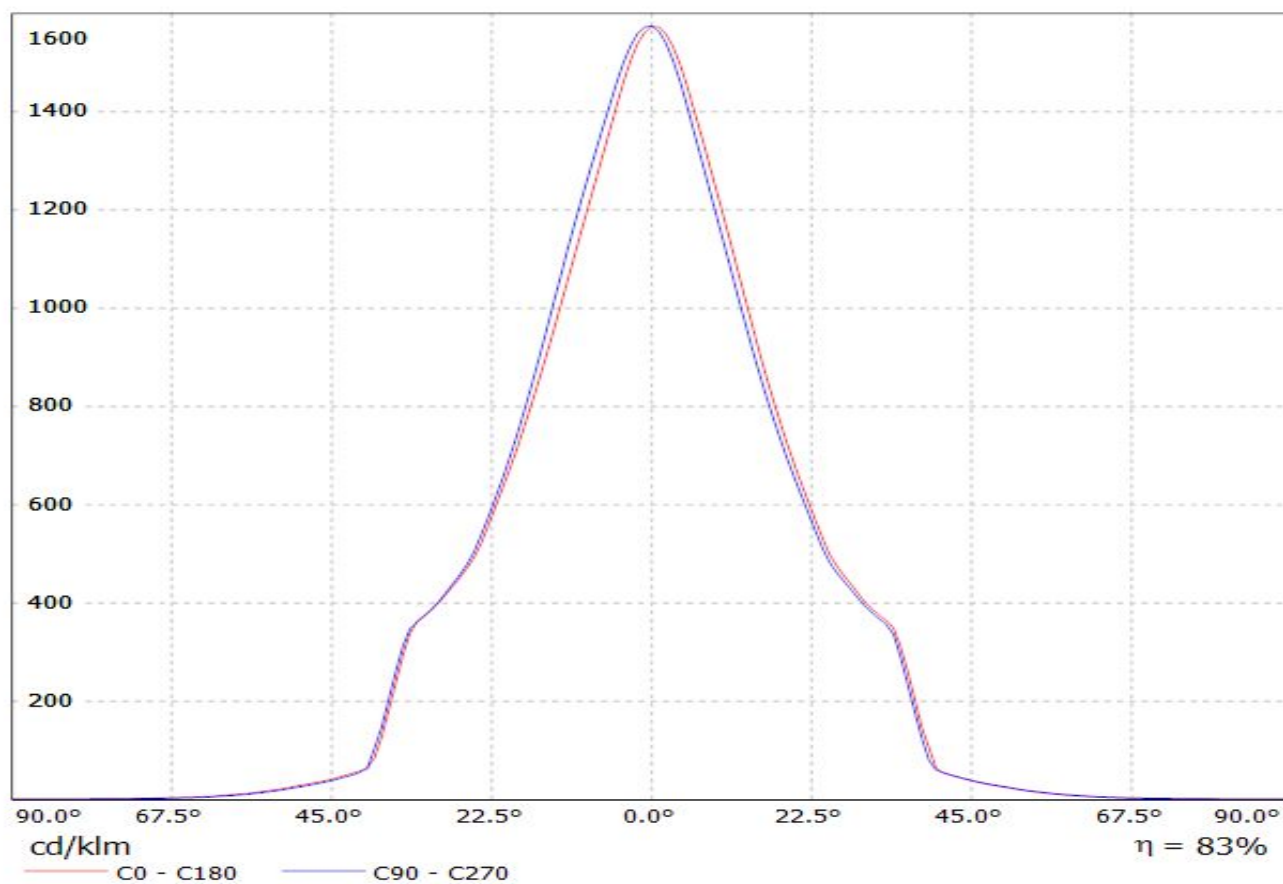
Luminaire: LEDiL Oy F13381_ANGELA-W_(PrevaLED_Z4)Eff 84%

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

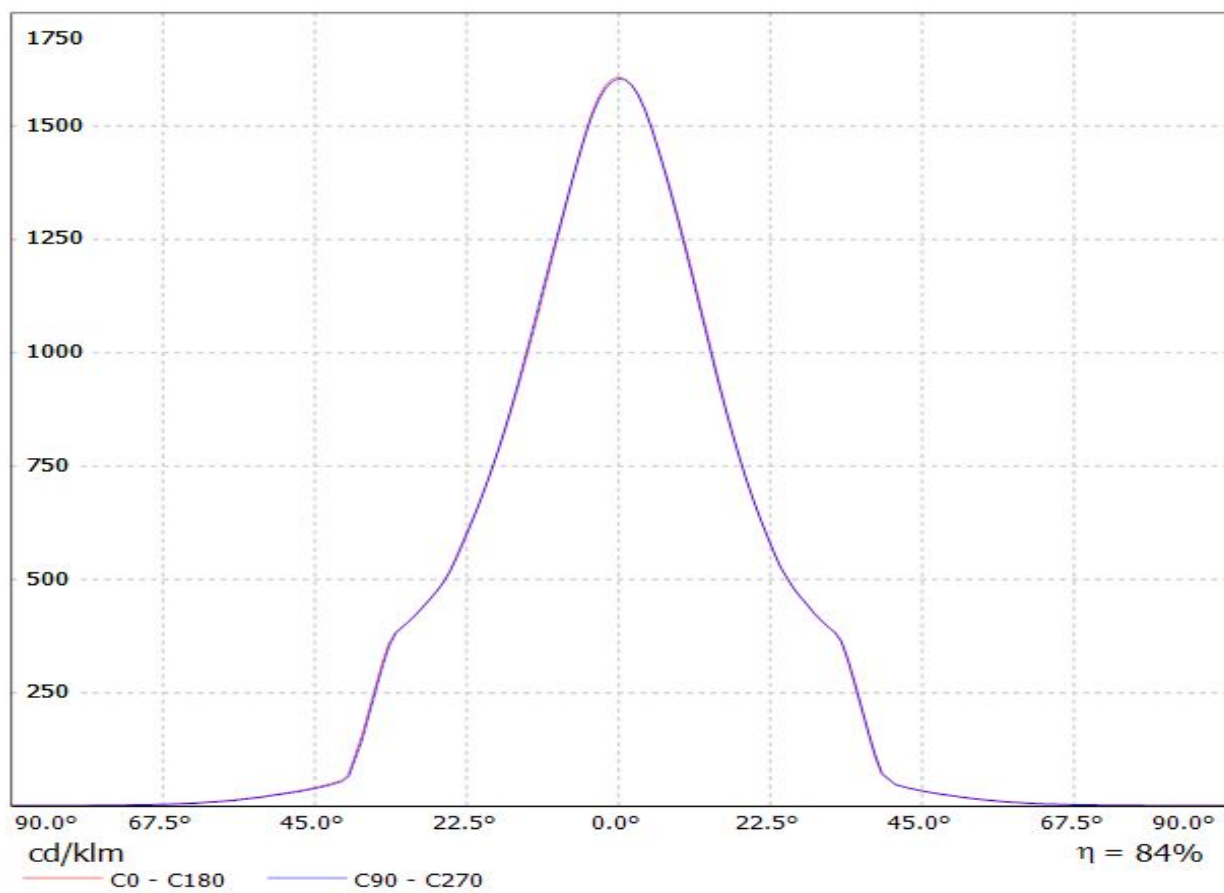


Luminaire: LEDiL Oy F13381_ANGELA-W_(WU-M-484)

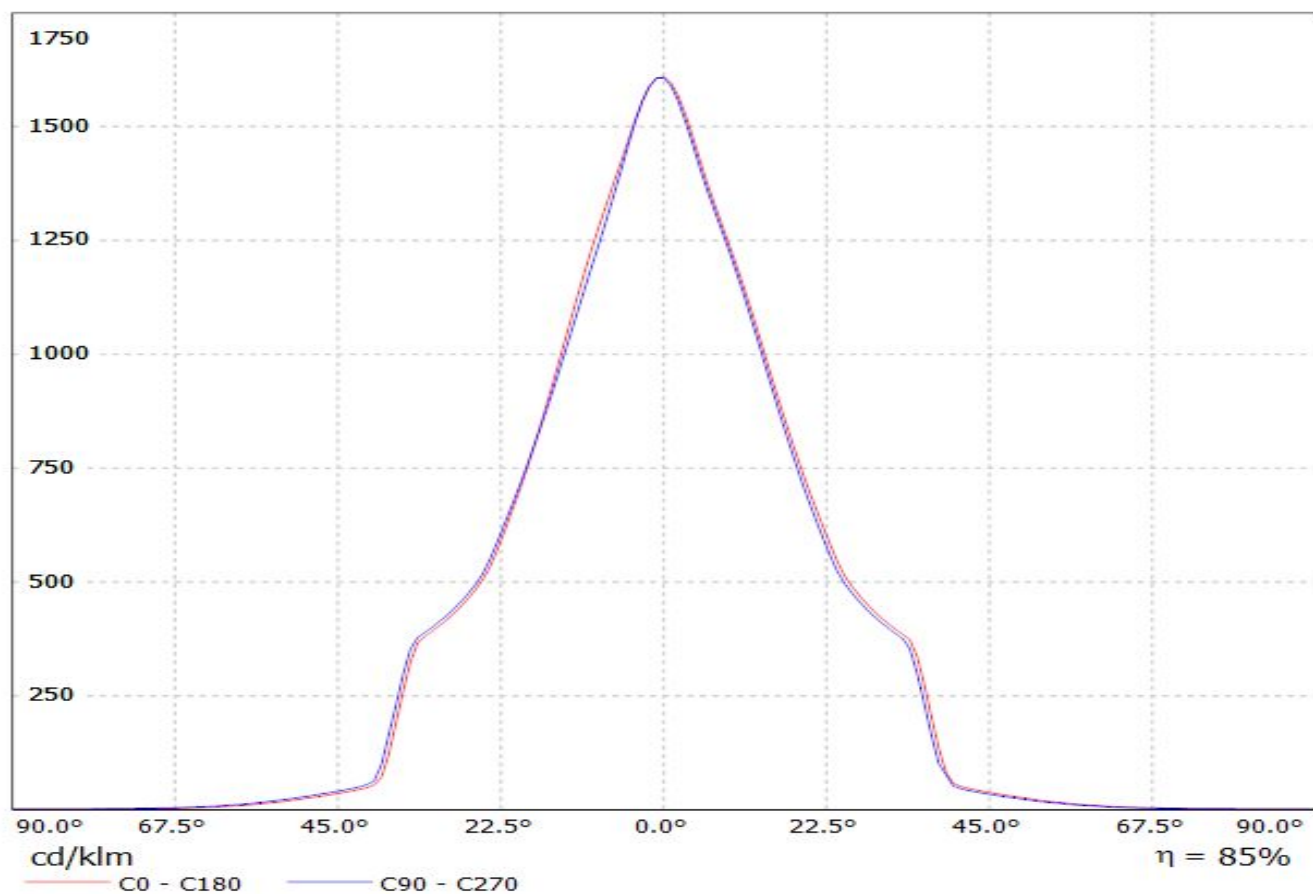
Lamps: 1 x Vossloh_Schwabe-WU-M-484_(WU-M-484-830)_657.721lm@250mA_P=5.59451W_I=249.9mA



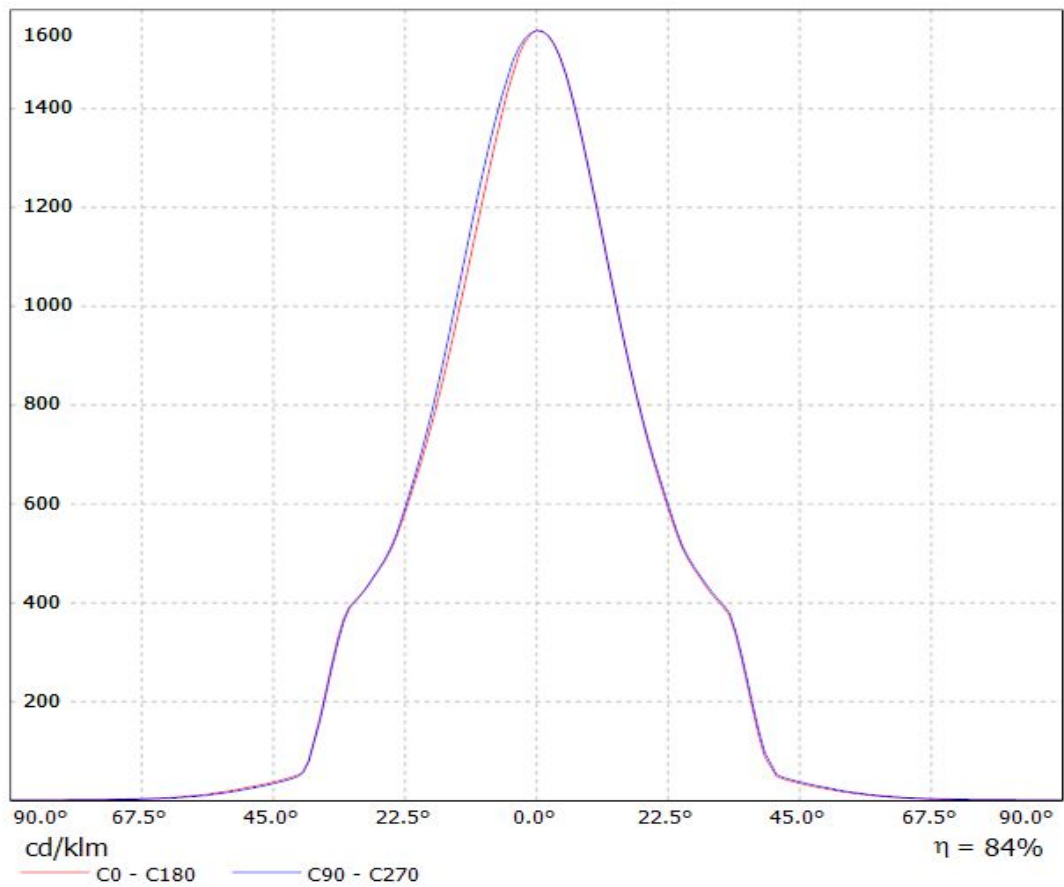
Luminaire: LEDiL Oy F13381_ANGELA-W_(SOLERIQ_S19_&_TE_2213407-2)
Lamps: 1 x OSRAM_SOLERIQ_S19_(GW_KAHJB1.EM)_1385.15lm@250mA_CCT=3000K_P=10.5613W_I=249.8mA



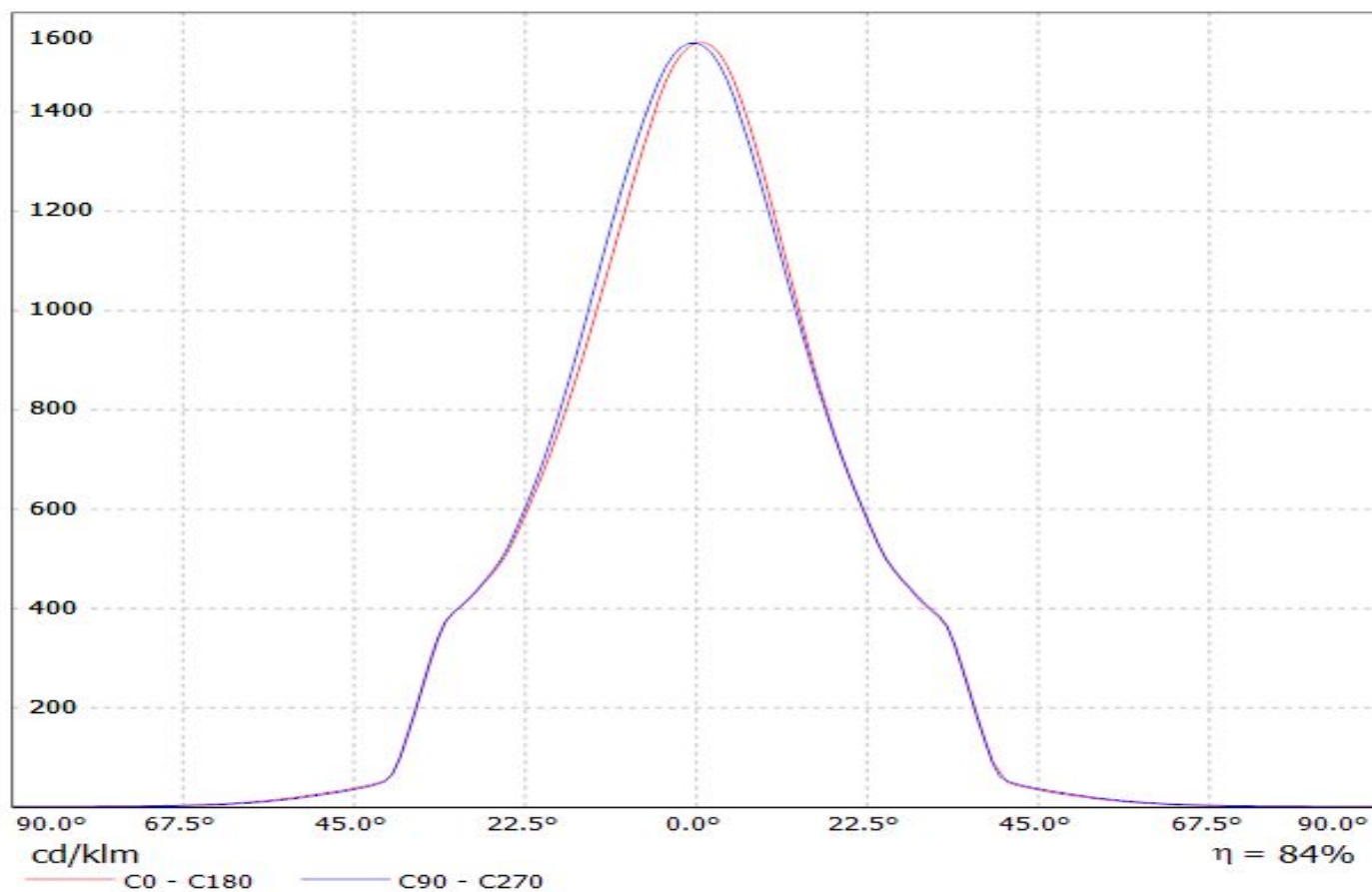
Luminaire: LEDiL Oy F13381_ANGELA-W_(NSBxL121A)
Lamps: 1 x Nichia_NSBxL121A_914.478lm@250mA_P=7.56872W_I=249.9mA



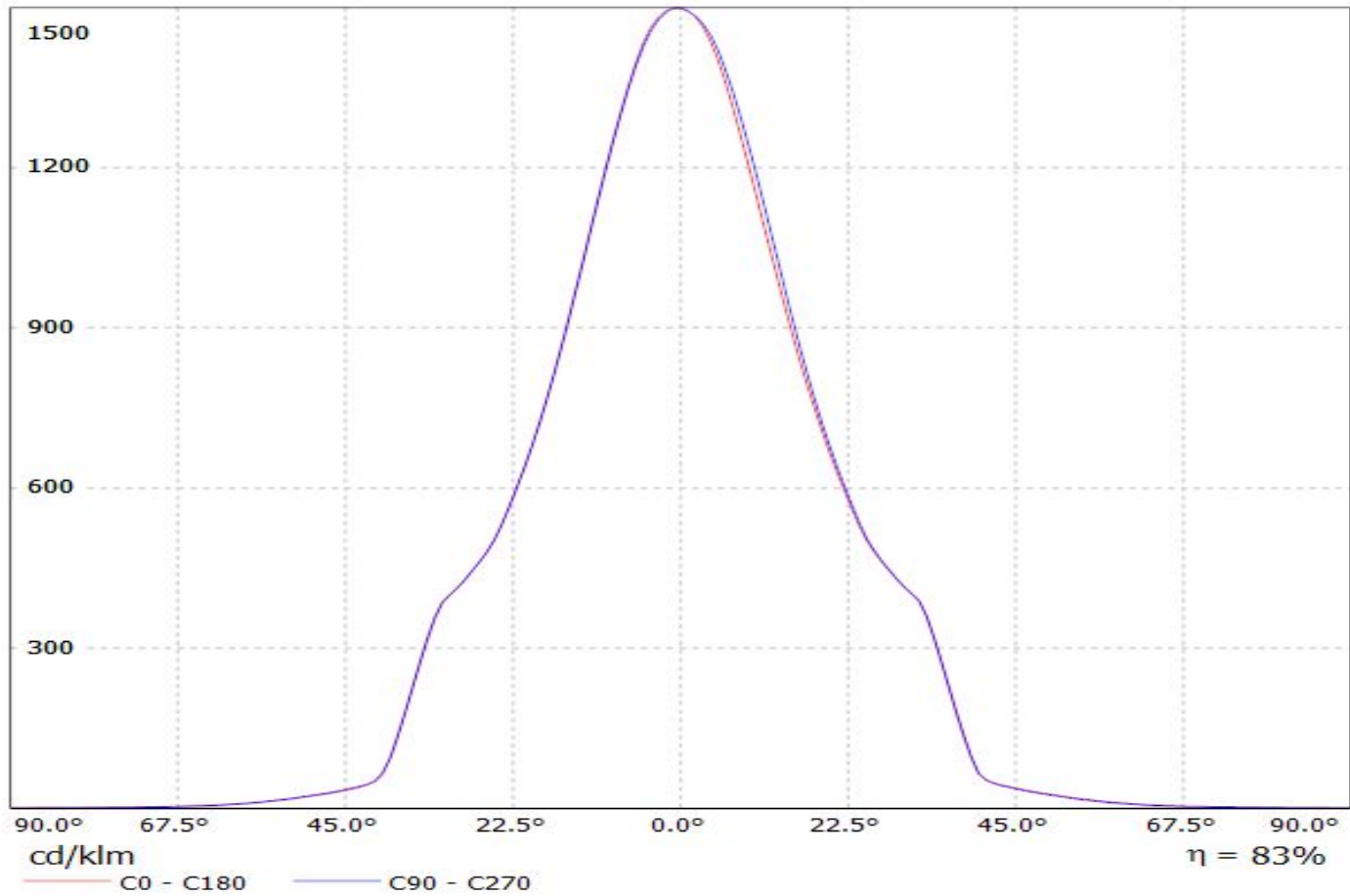
Luminaire: LEDiL Oy F13381_ANGELA-W (STARK_LES19)
Lamps: 1 x Tridonic_STARK_SLE_G3_LES19_(Stark-SLE-PURE-G3-19-2000-840-CLA)_1050.59lm@250mA_P=8.3639W_I=249.9mA



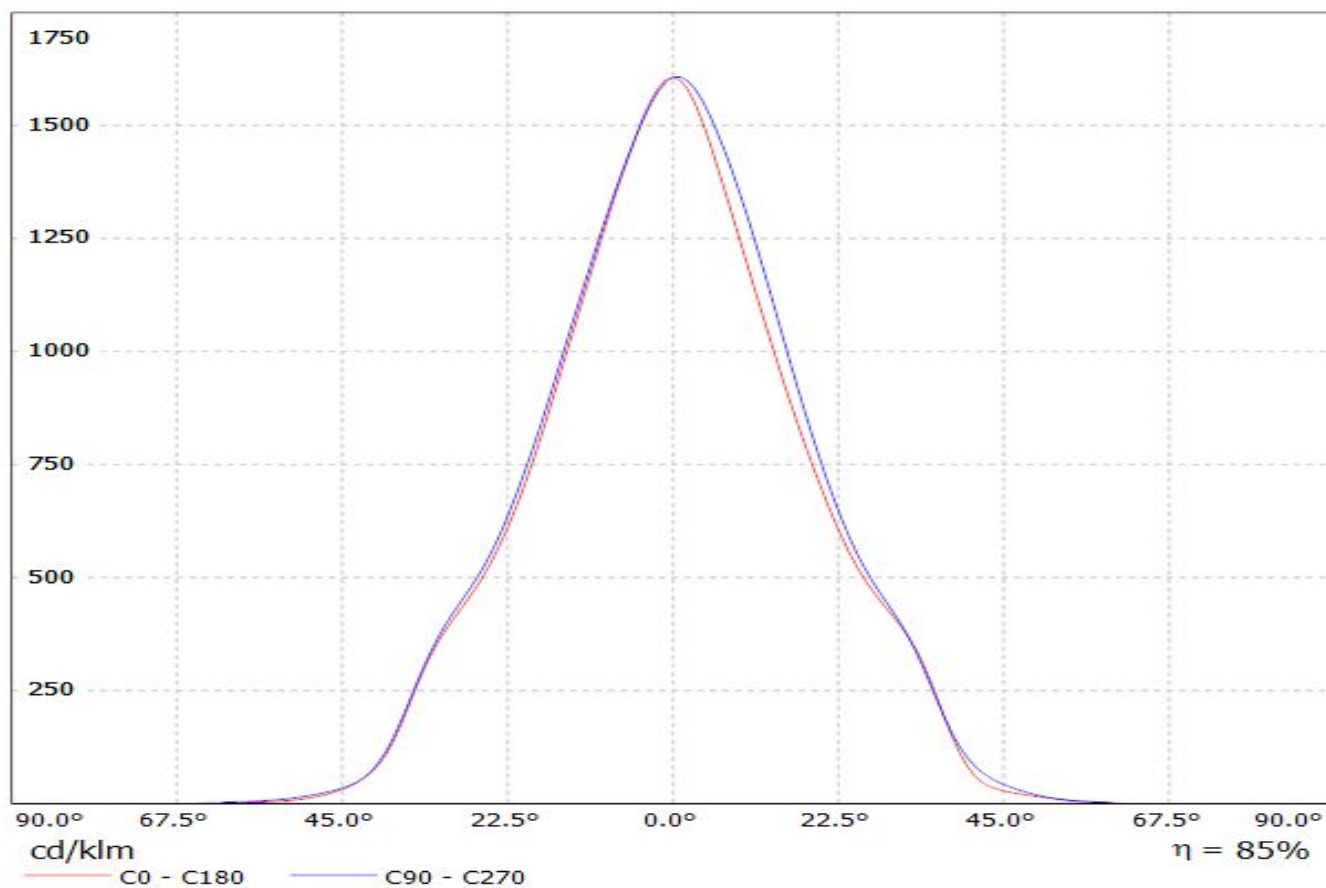
Luminaire: LEDiL Oy F13381_ANGELA-W_(COB-LC026B) Eff.83.8%
Lamps: 1 x SAMSUNG_COB-LC026B_(SPHWWTHDNC25YHV52F)
_1122.94lm@250mA_P=8.2479W_I=249.8mA



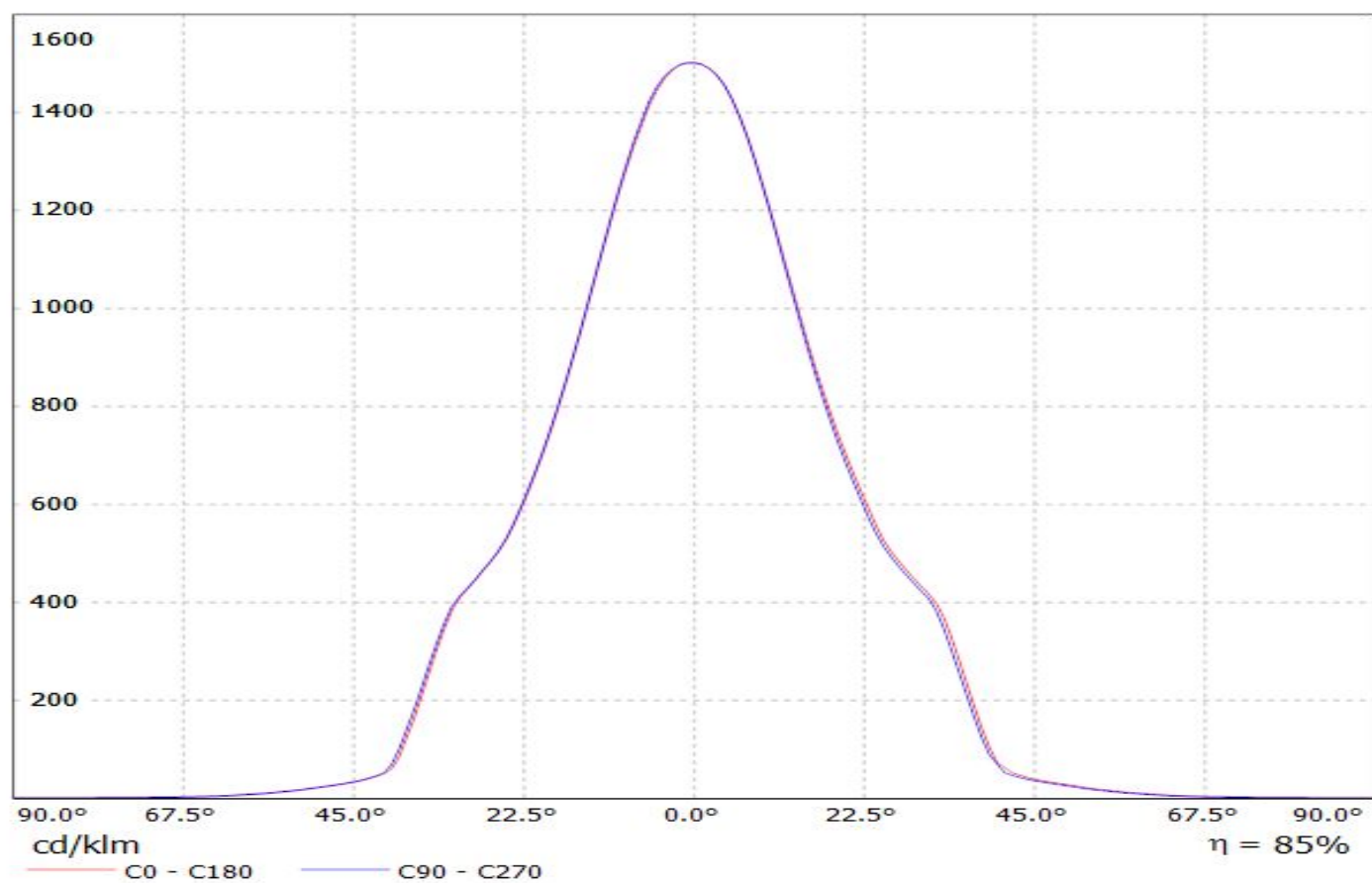
Luminaire: LEDiL Oy F13381_ANGELA-W_(Fortimo LED SLM L19 G4)
Lamps: 1 x Fortimo LED SLM L19 G4_1114.89lm@250mA_P=8.04906W_I=0.2498A



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

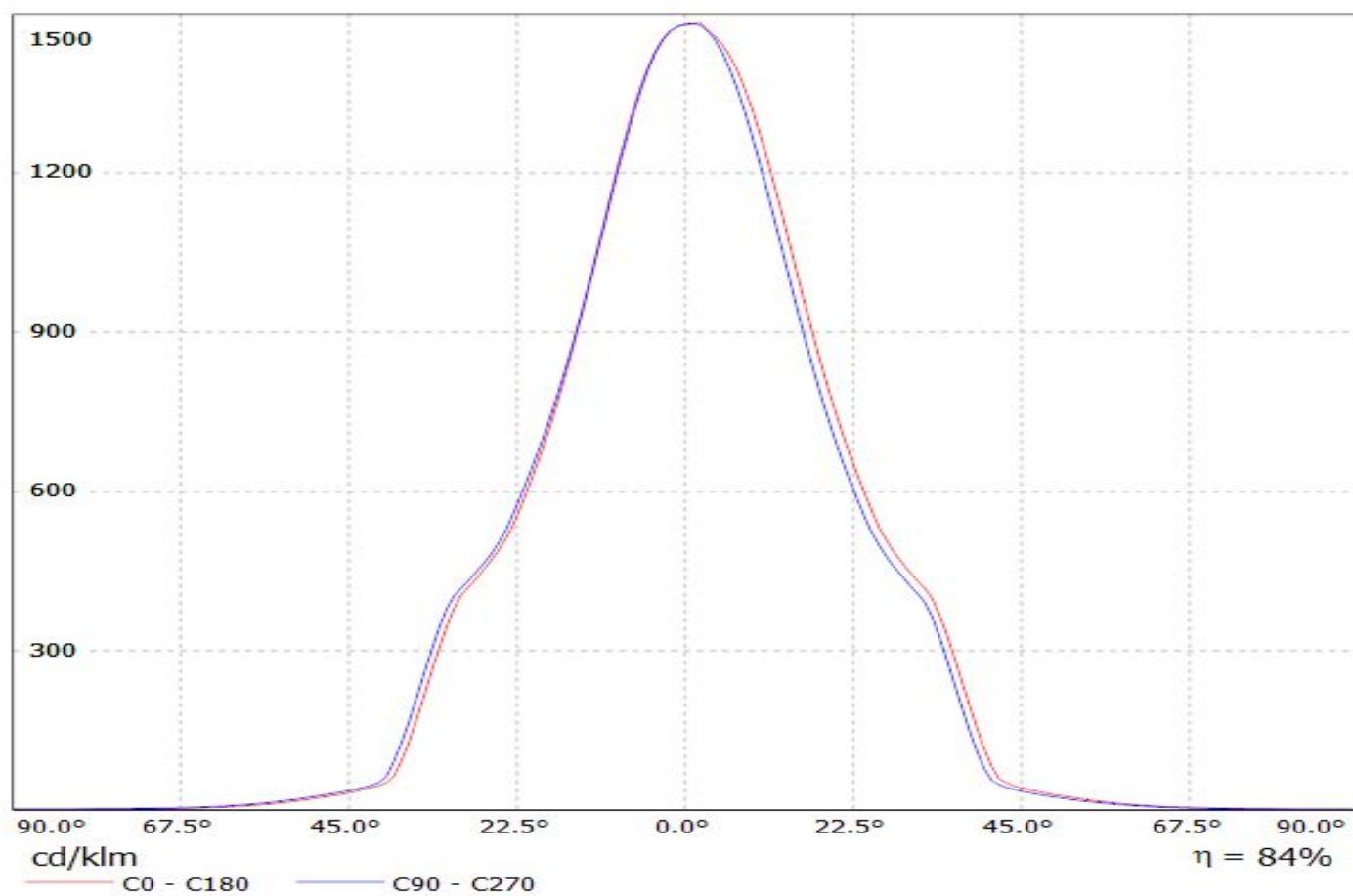


Luminaire: LEDiL Oy F13381_ANGELA-W_(PrevaLED_LES23)
Lamps: 1 x Osram_PrevaleLED_Core_Z3_LES23_(PL-CORE-5000-930-Z3)
_1130.05lm@250mA_P=10.0097W_I=249.9mA



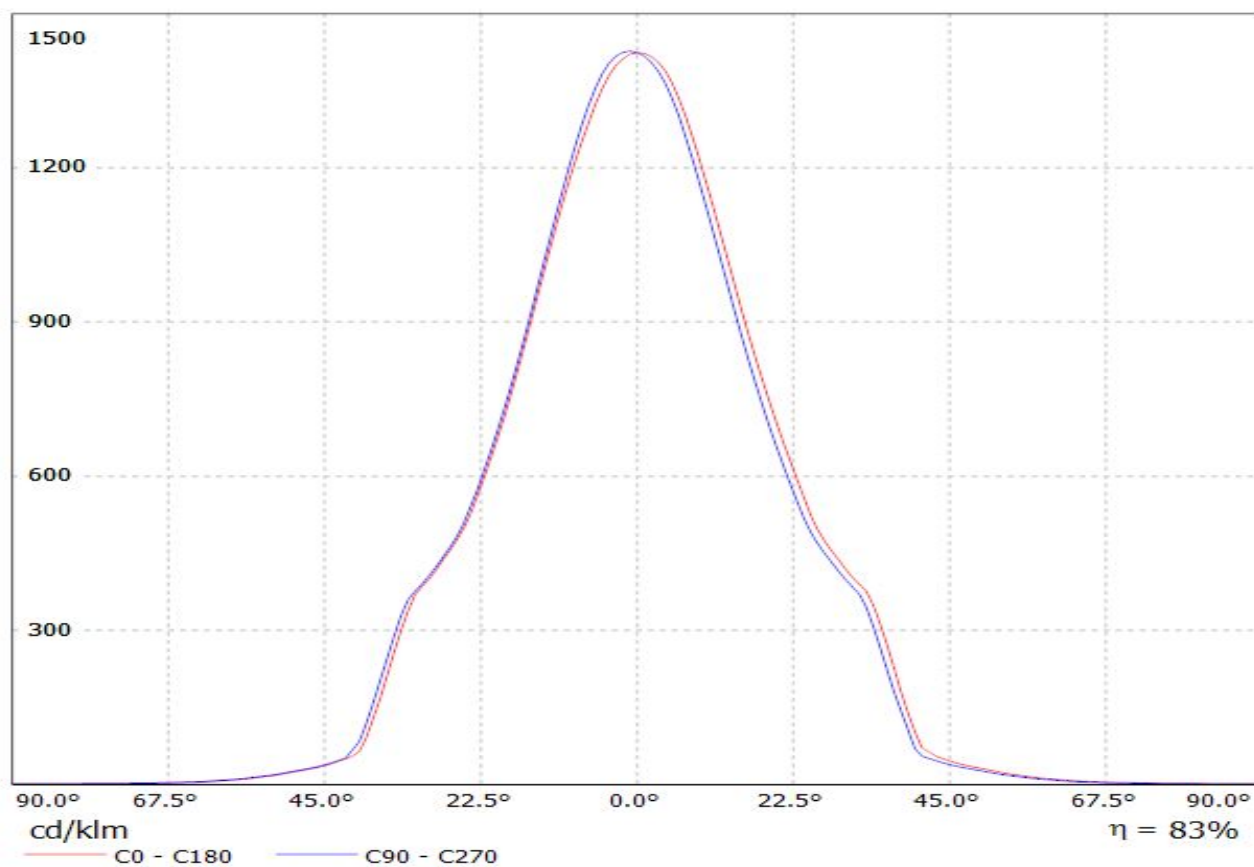
Luminaire: LEDiL Oy F13381_ANGELA-W (SLE_G4_LES23)

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

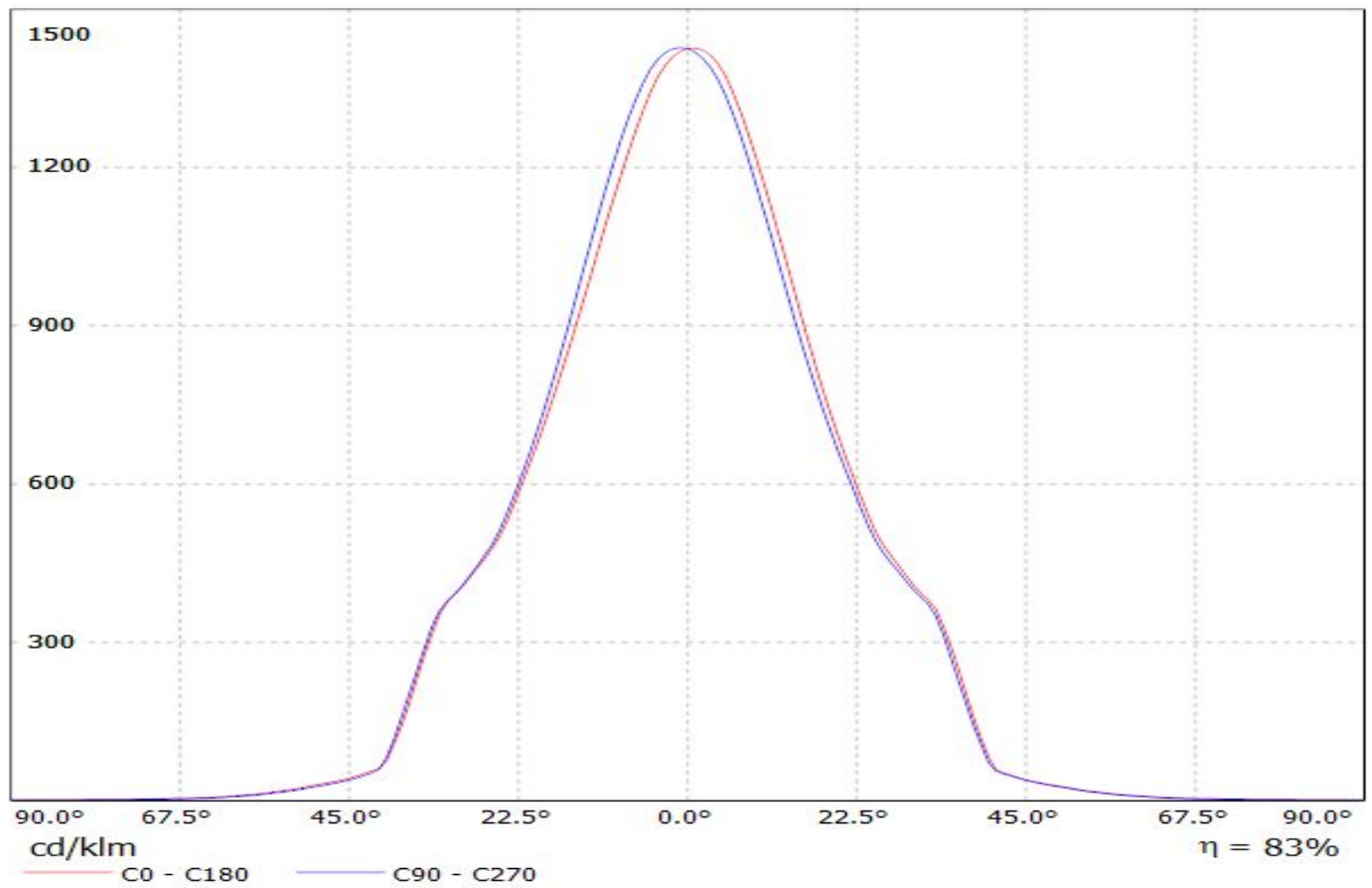


Luminaire: LEDiL Oy F13381_ANGELA-W_(WU-M-485)

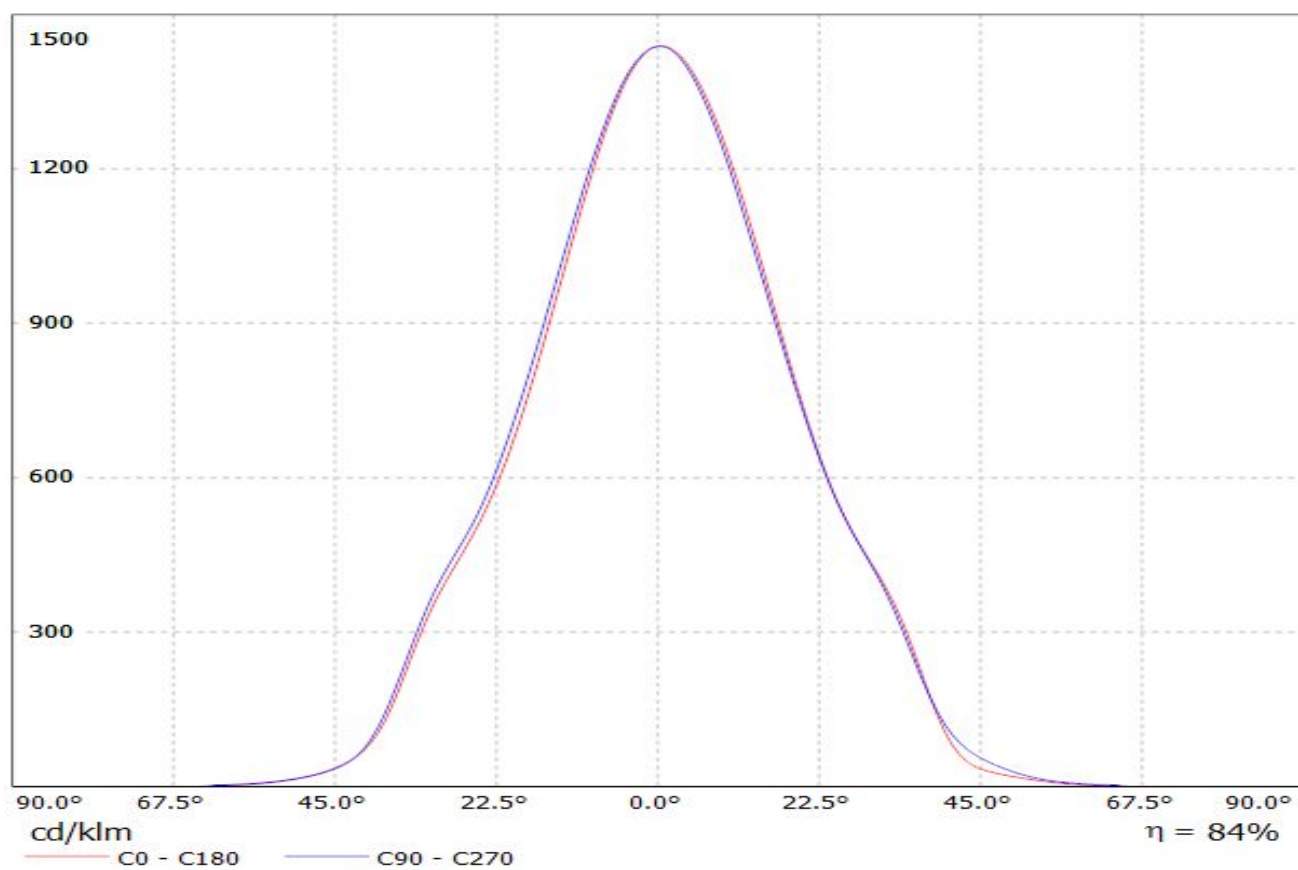
Lamps: 1 x Vossloh_Schwabe-WU-M-485_(WU-M-485-830)_1209.62lm@250mA_P=8.43849W_I=249.8mA



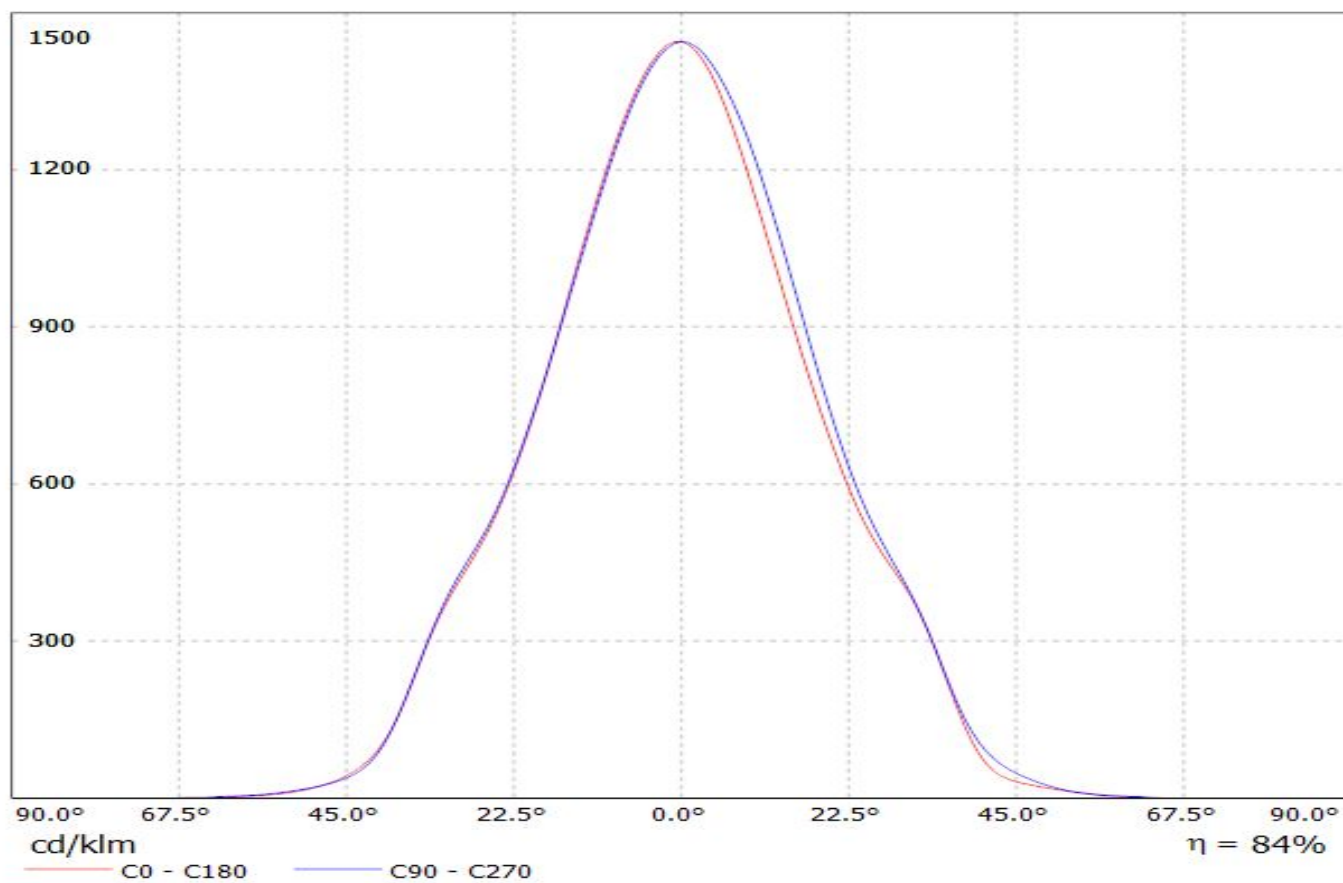
Luminaire: LEDiL Oy F13381_ANGELA-W_(WU-M-486) Eff.83.2%
Lamps: 1 x Vossloh_Schwabe-WU-M-486_(WU-M-486-830)
_1474.55lm@250mA_P=10.4456W_I=249.8mA



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

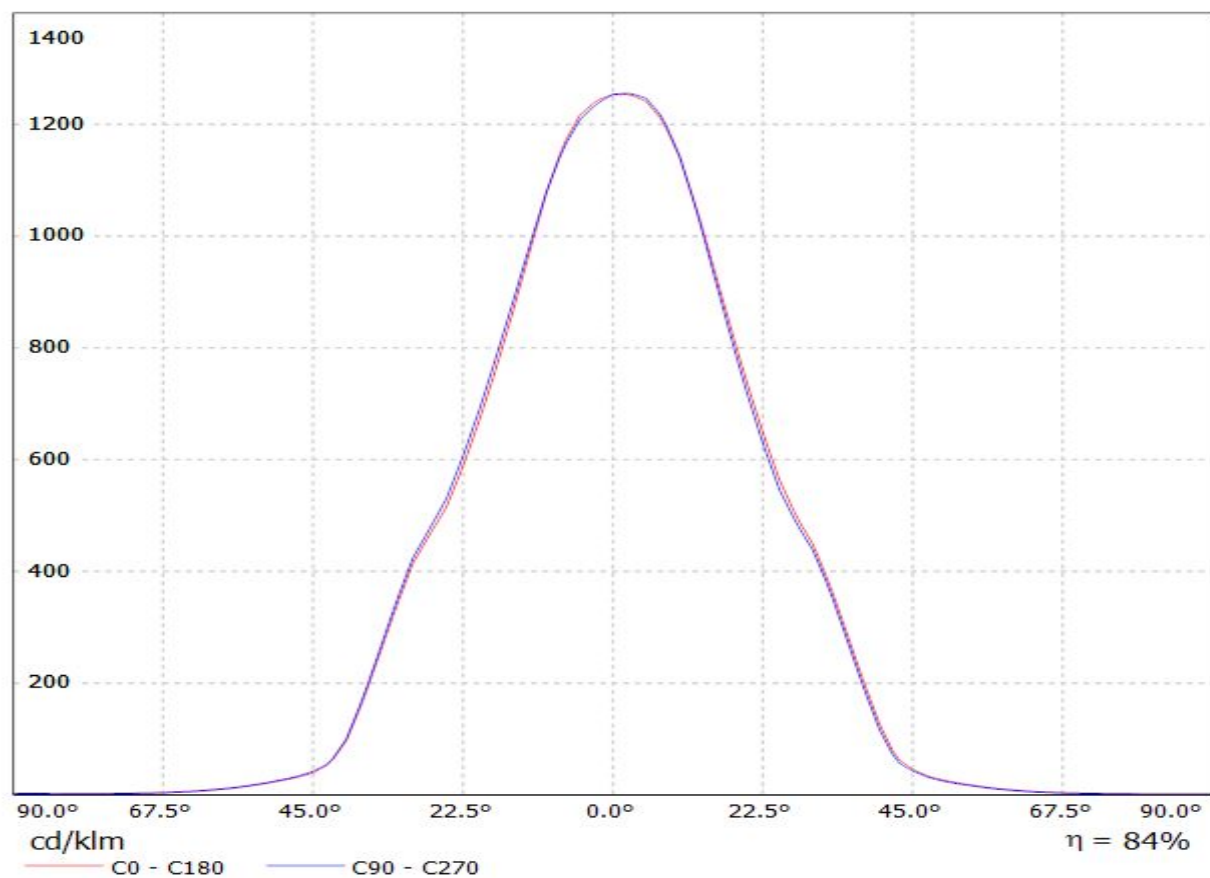


Luminaire: LEDiL F13381_ANGELA-W_(WU-M-464)
Lamps: 1 x Vossloh-Schwabe WU-M-464-827 1480lm@250mA

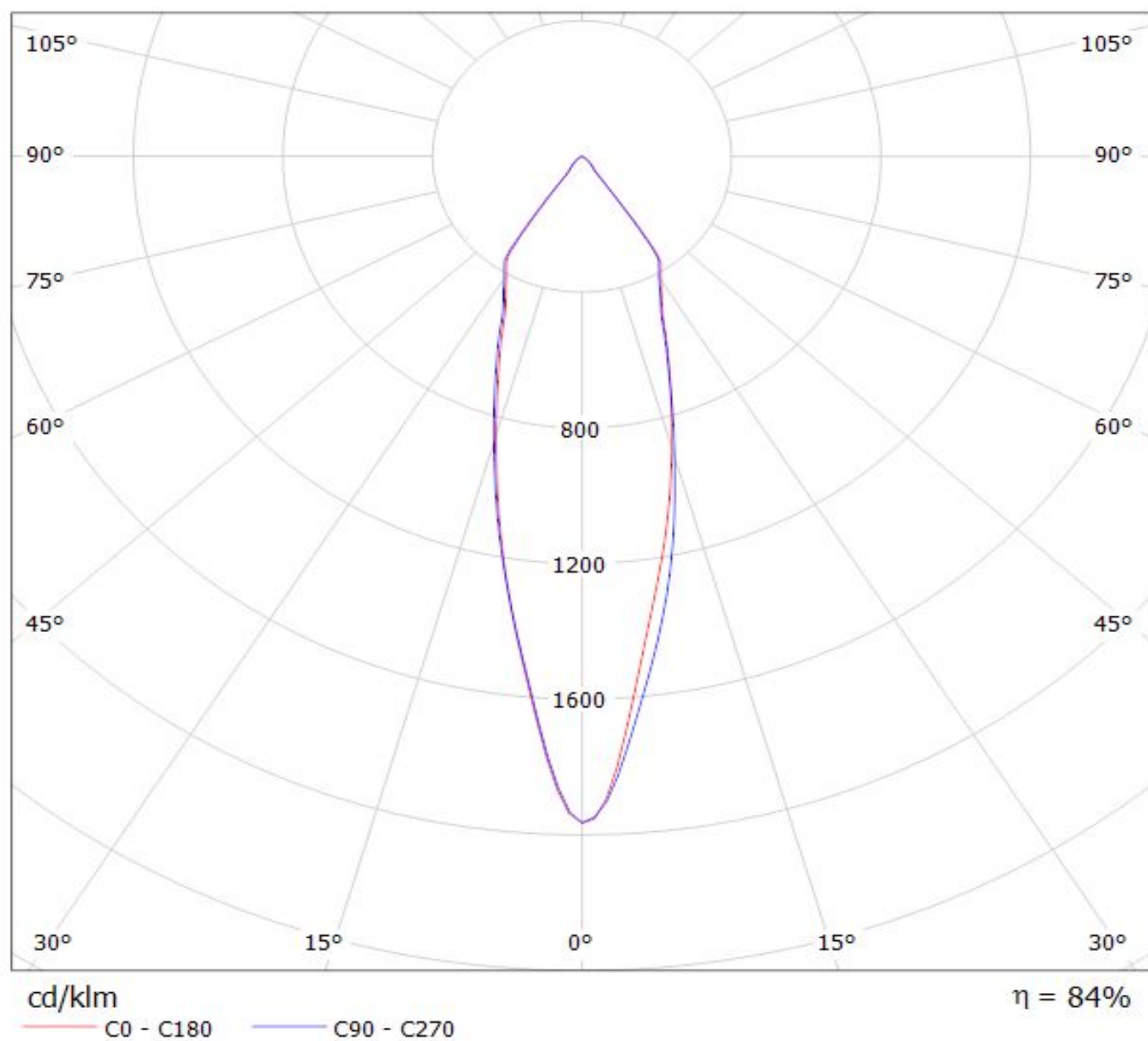


Luminaire: LEDiL Oy F13381_ANGELA-W_(CXA3590)

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

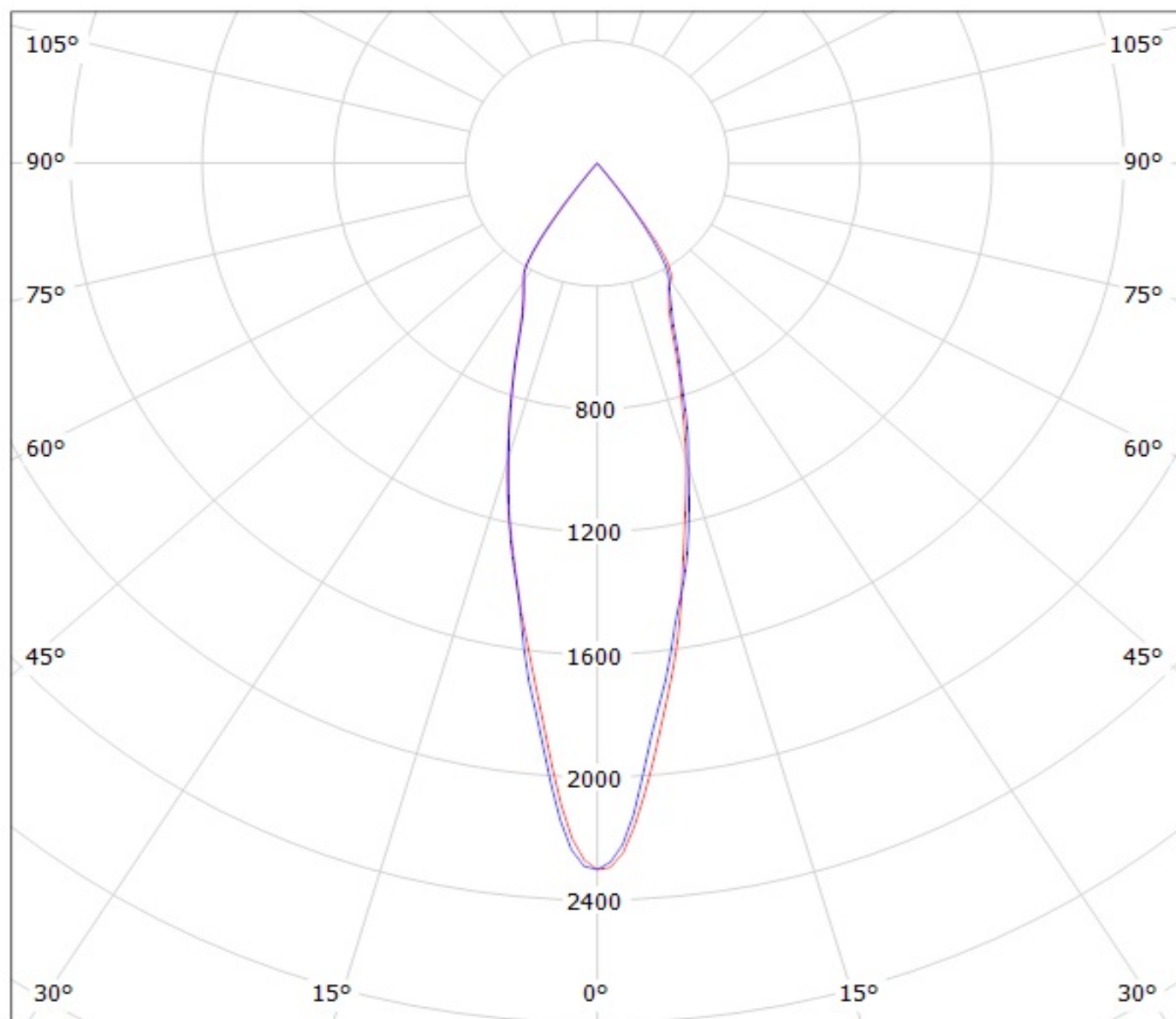


Luminaire: LEDiL Oy F13381_ANGELA-W_(PrevaLED_LES9)
Lamps: 1 x Osram_PrevaLED_Core_Z3_LES9_(PL-CORE-1100-830-Z3)
_1132.95lm@250mA_P=12.1952W_I=249.8mA



Luminaire: LEDil Oy F13381_ANGELA-W_(NFCxL060B)

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

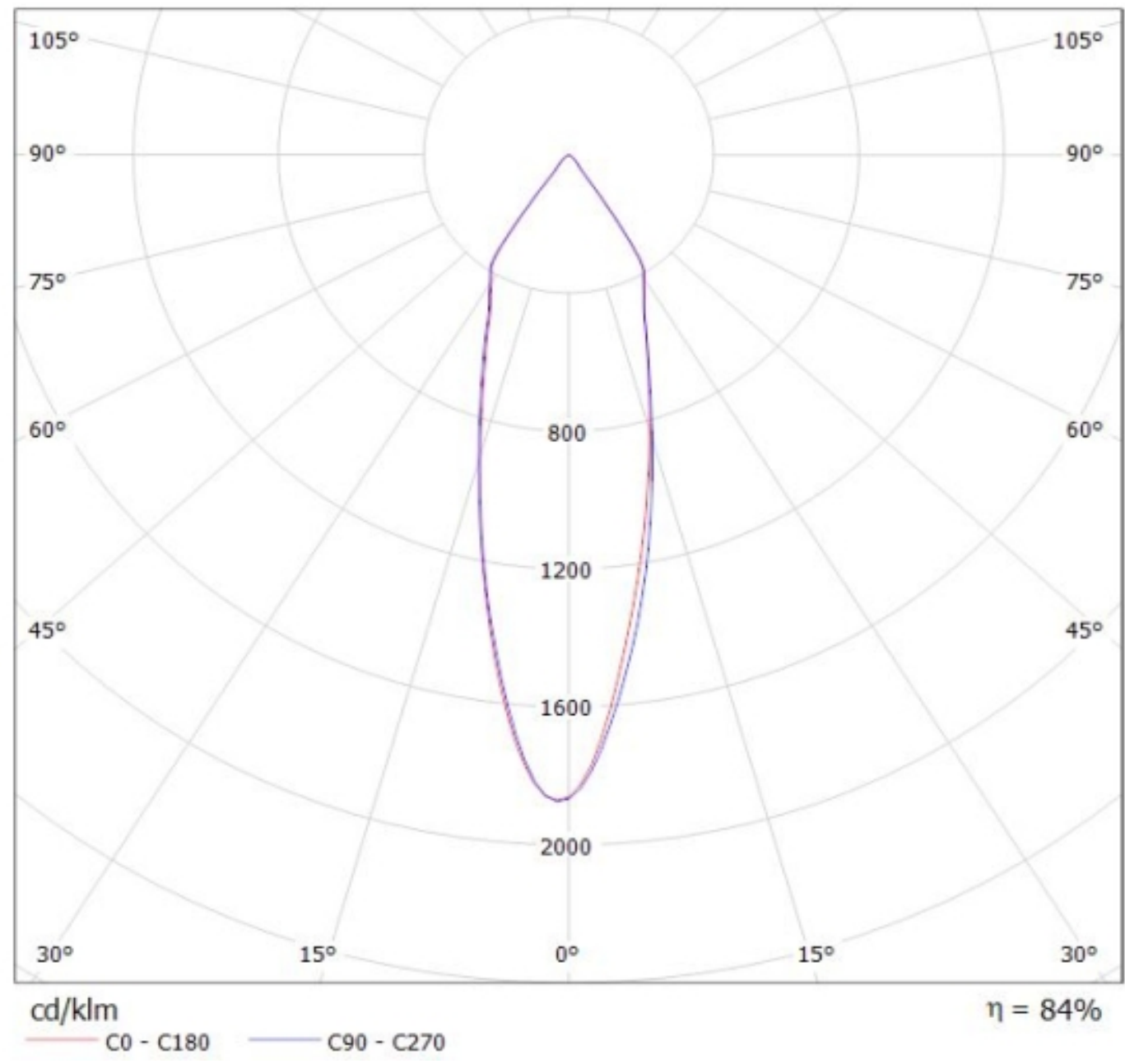


cd/klm

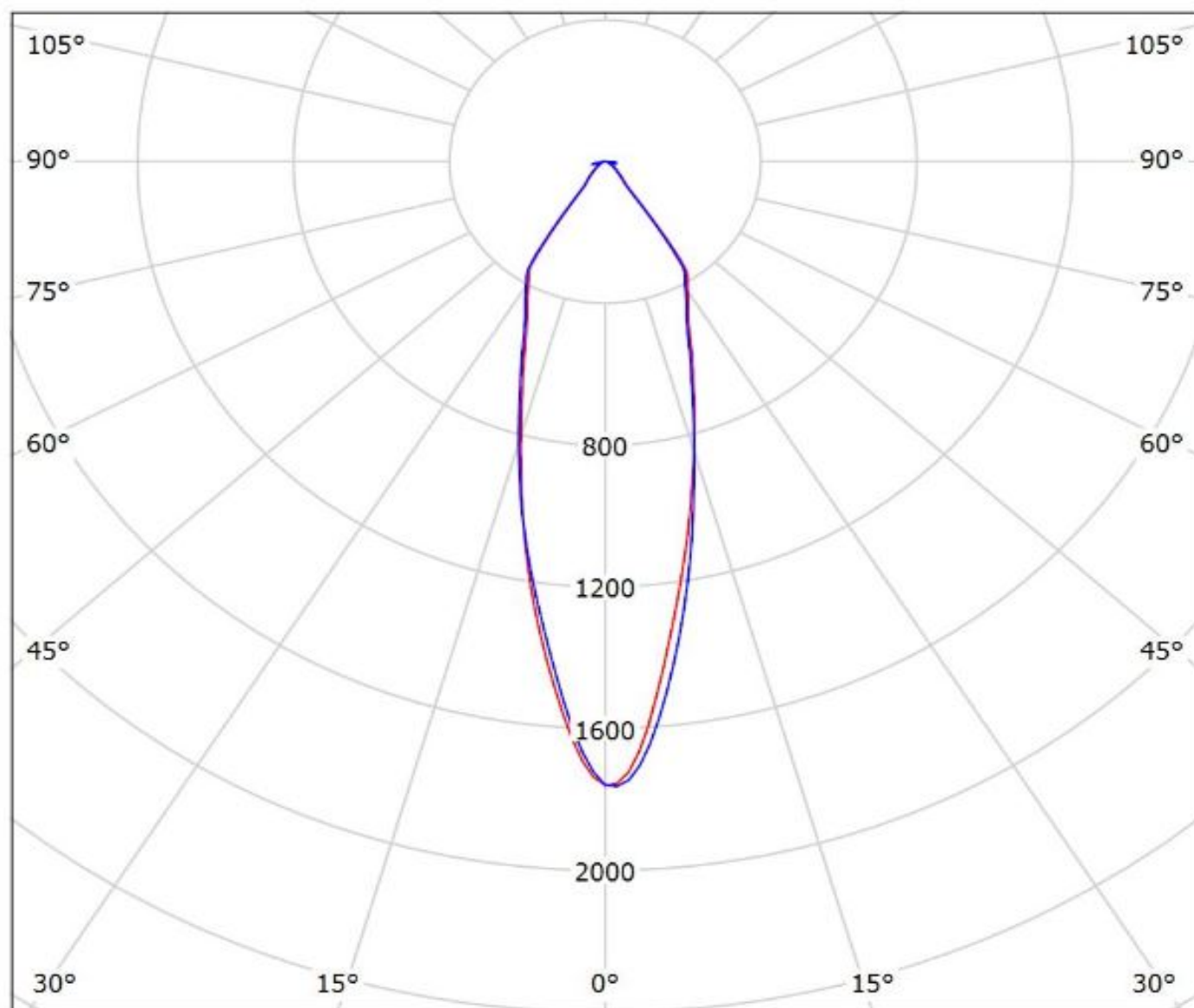
— C0 - C180

— C90 - C270

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



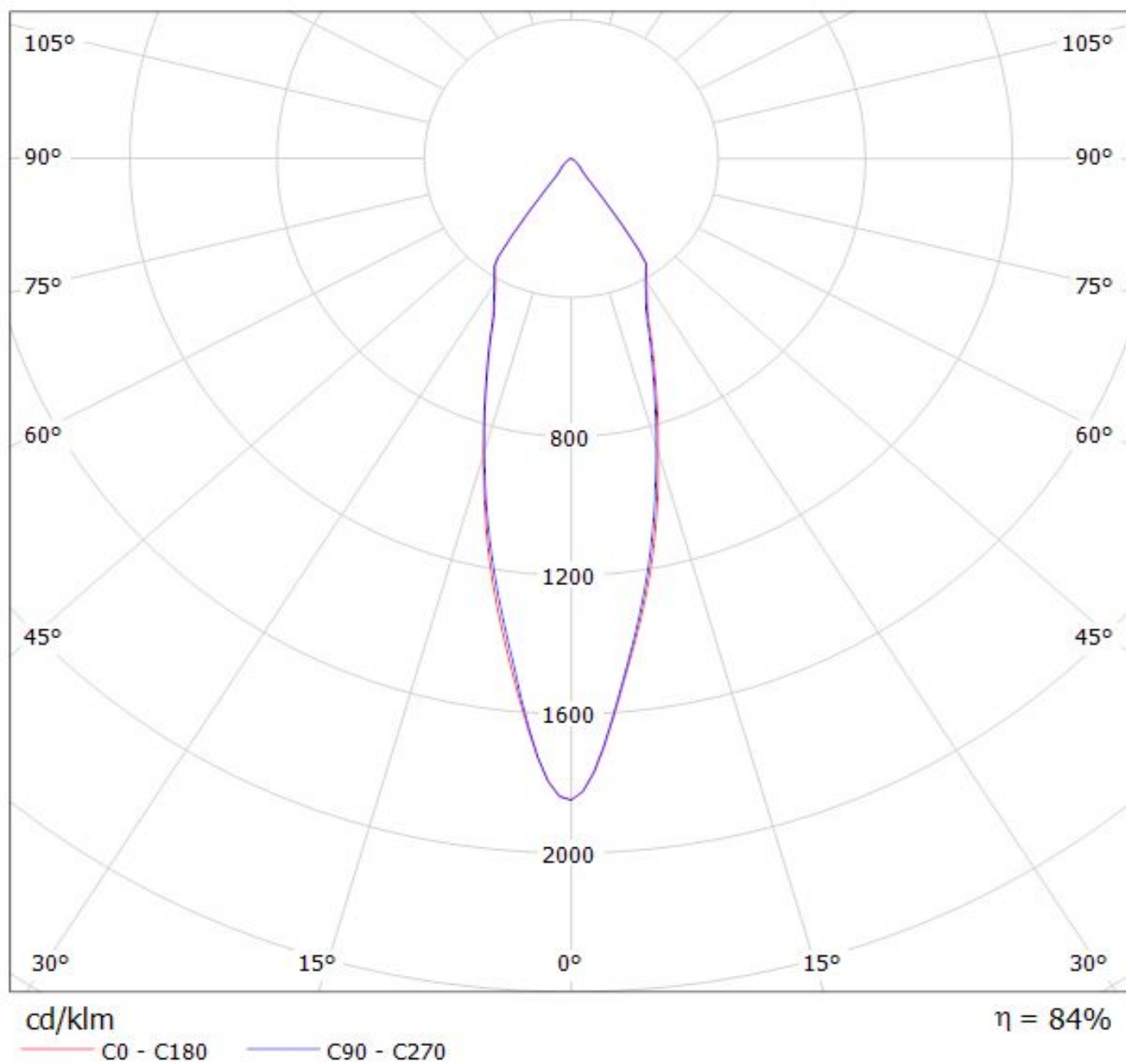
cd/klm

— C0 - C180 — C90 - C270

$\eta = 85\%$

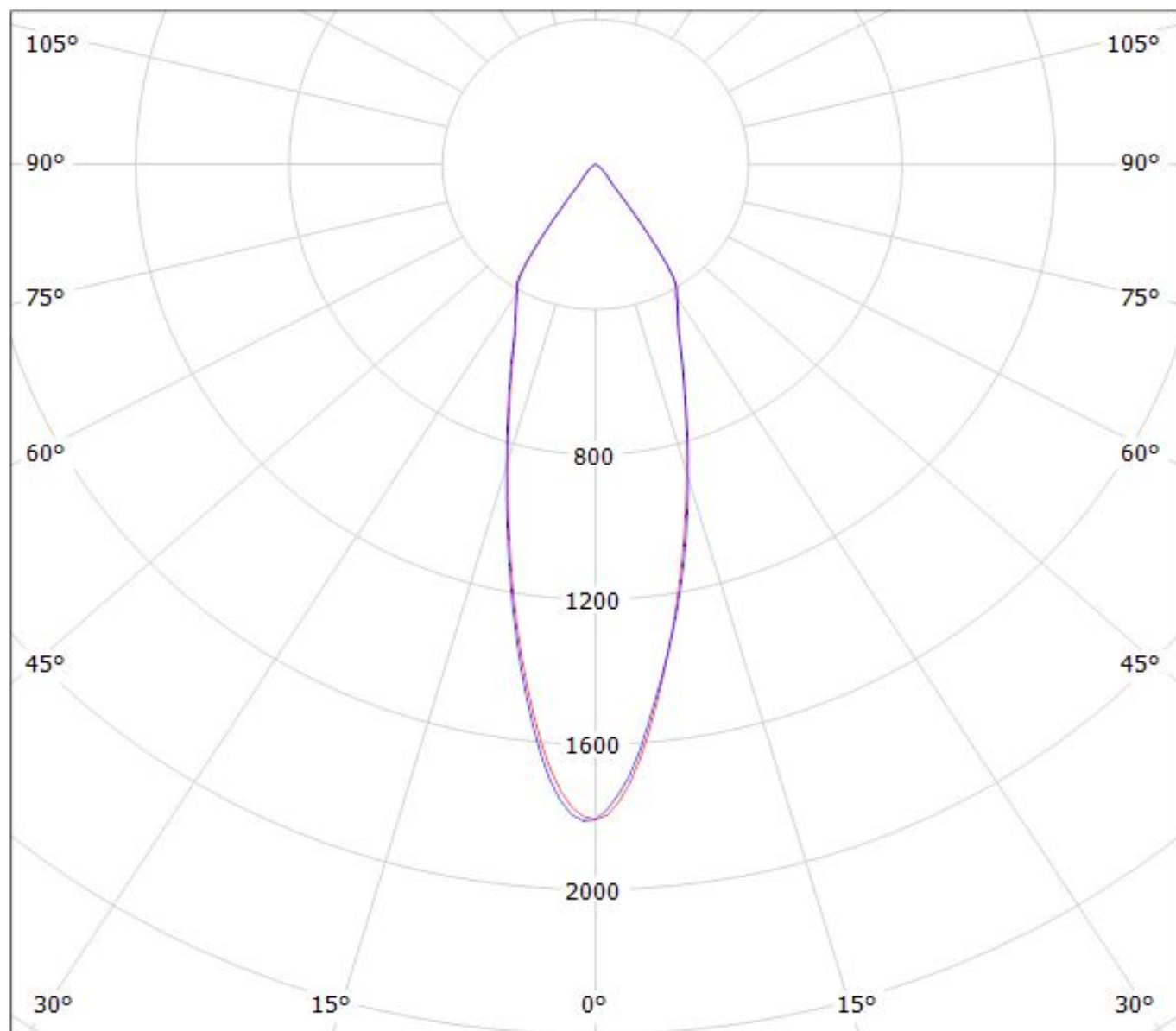
Luminaire: LEDiL Oy F13381_ANGELA-W_(Fortimo LED SLM 1100 lm 830 L9 G4)

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_(CLL030)

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



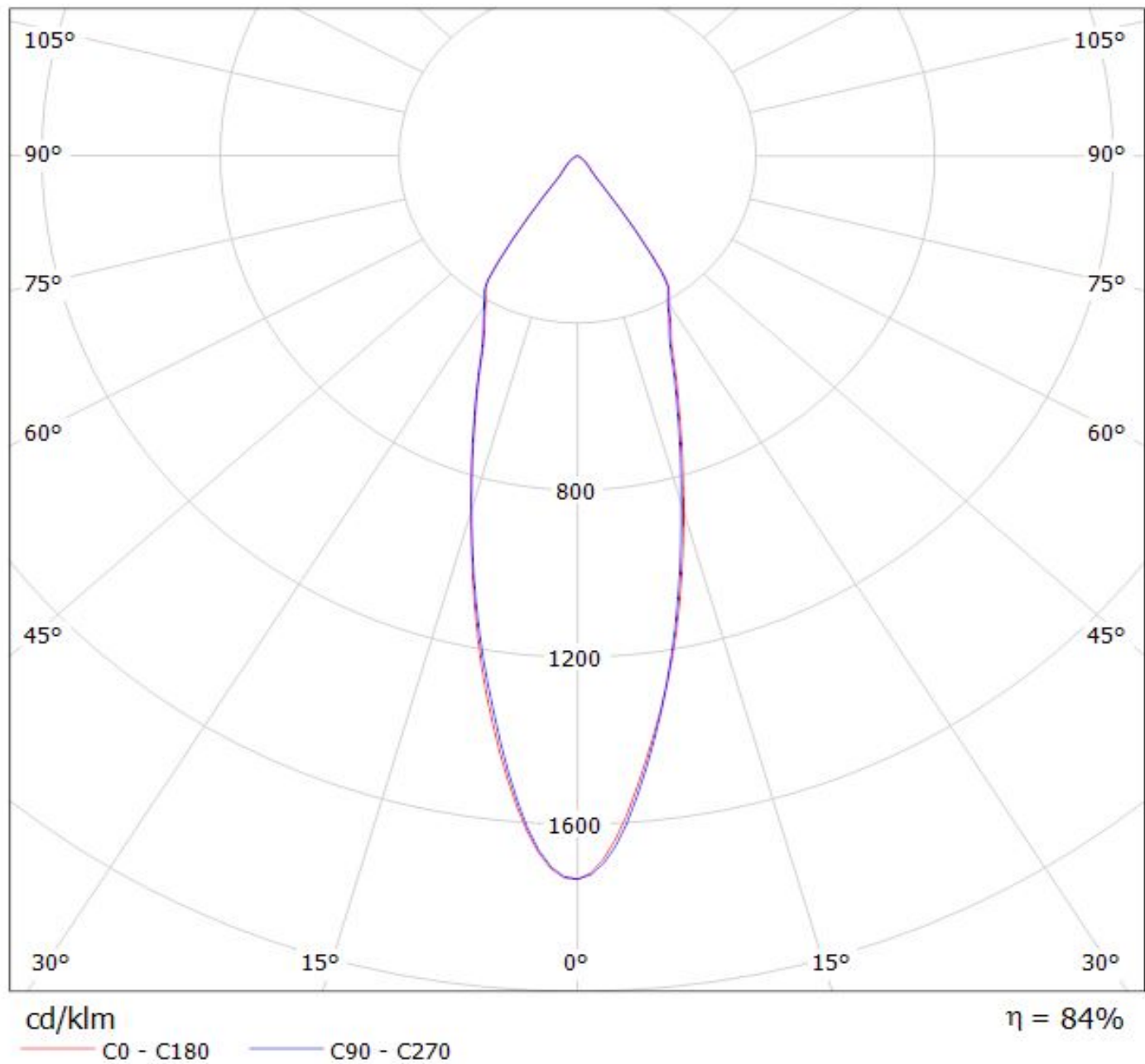
cd/klm

$\eta = 83\%$

— C0 - C180

— C90 - C270

Luminaire: LEDiL 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

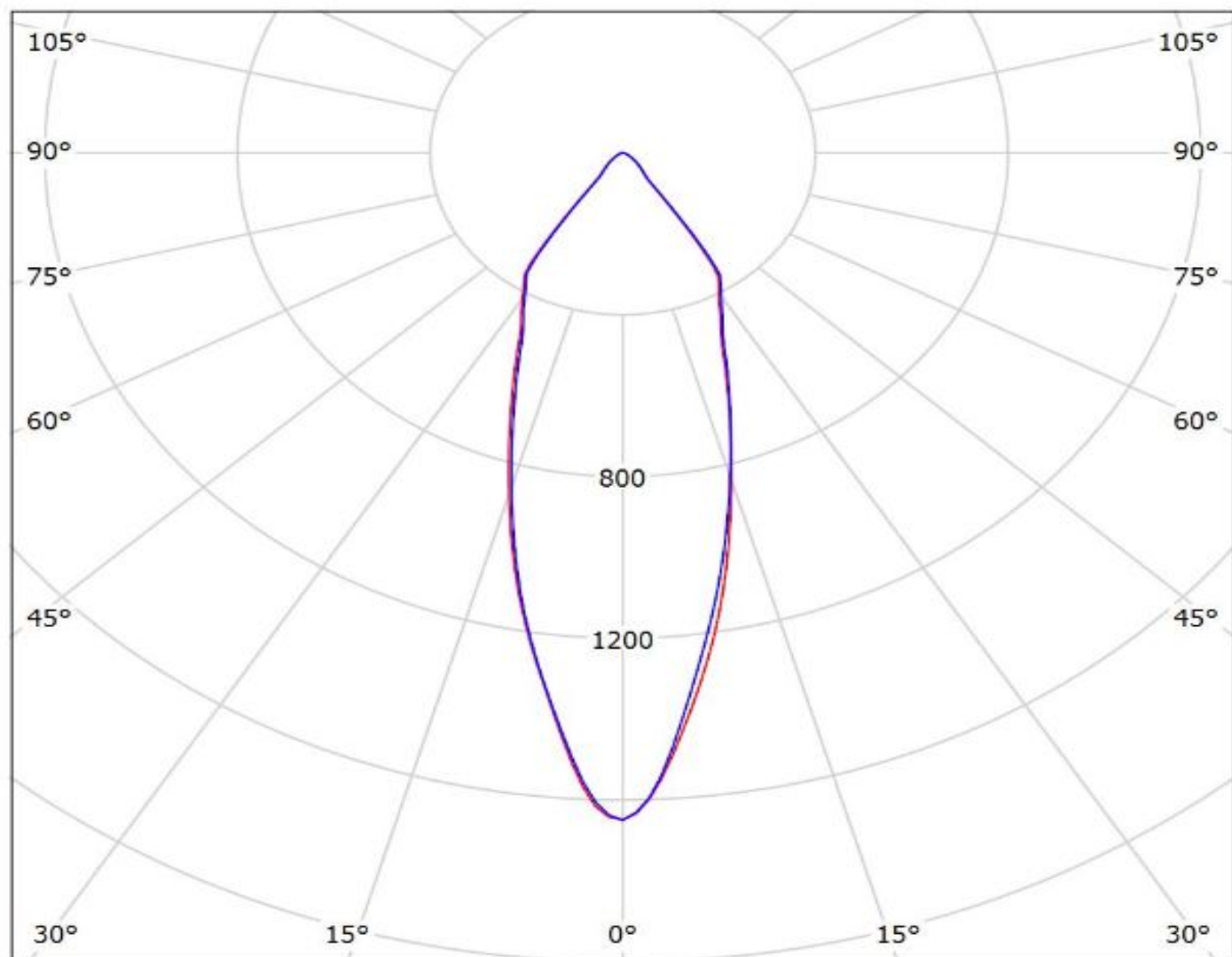


Ledil F13381_ANGELA-W_(CLU720) / LDC (Polar)

Luminaire: Ledil F13381_ANGELA-W_(CLU720)

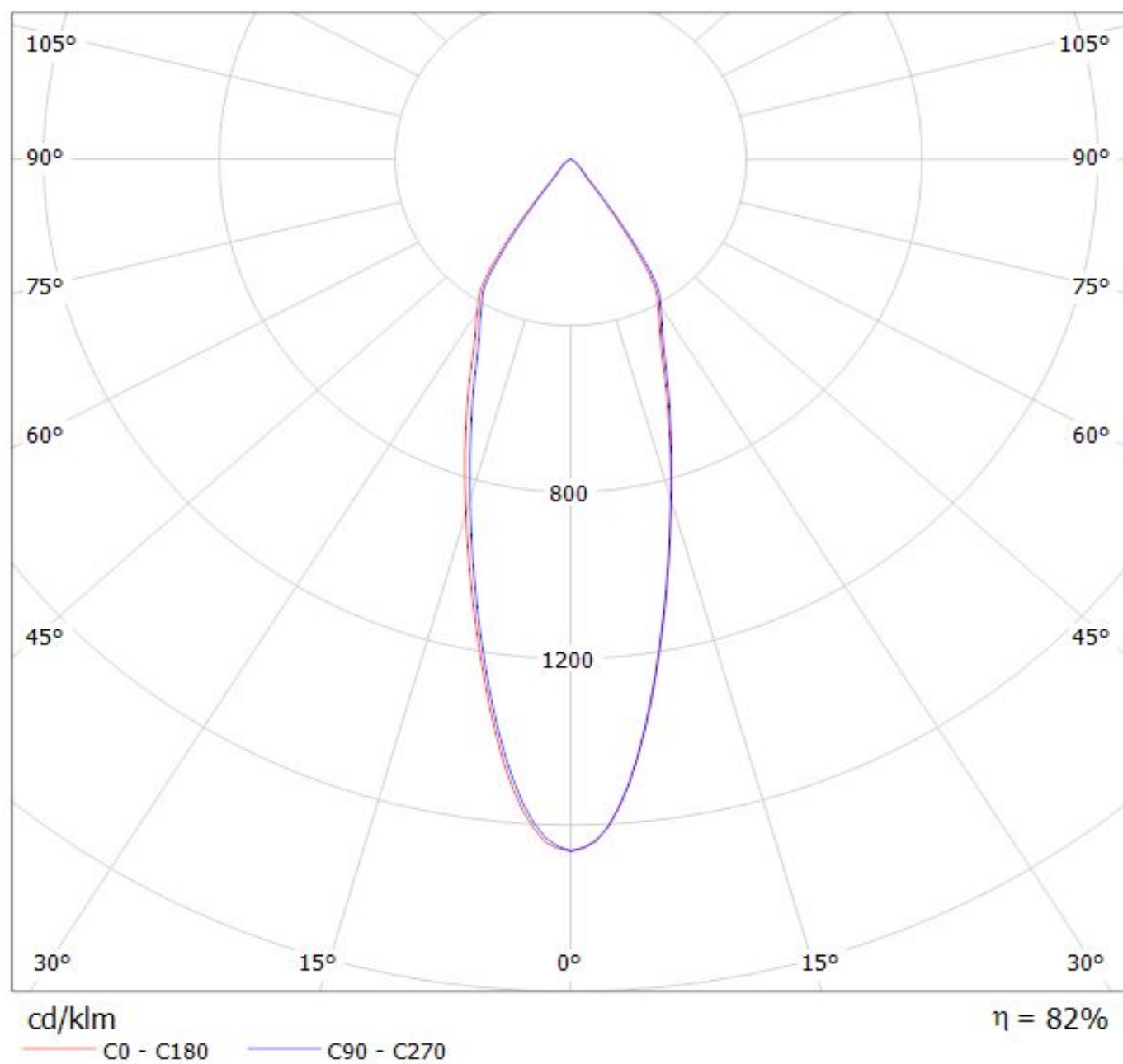
Lamps: 1 x CITIZEN_CLU720_(CLU720-1206B8-273M2)

_1344.79lm@250mA_CCT=2700K_P=8.35W_I=0.25A

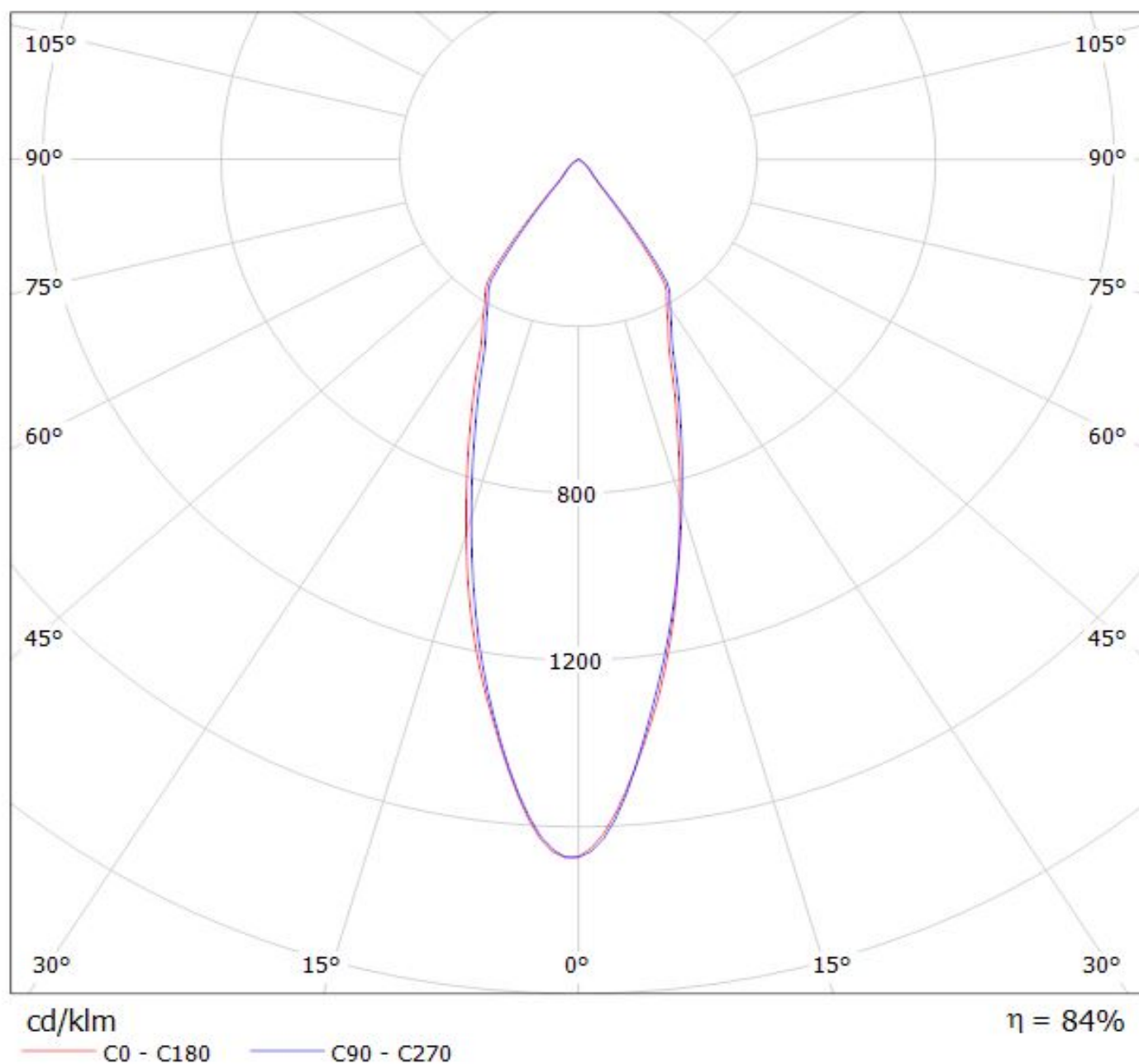


Luminaire: LEDiL Oy F13381_ANGELA-W_(SLE GEN4 LES19)

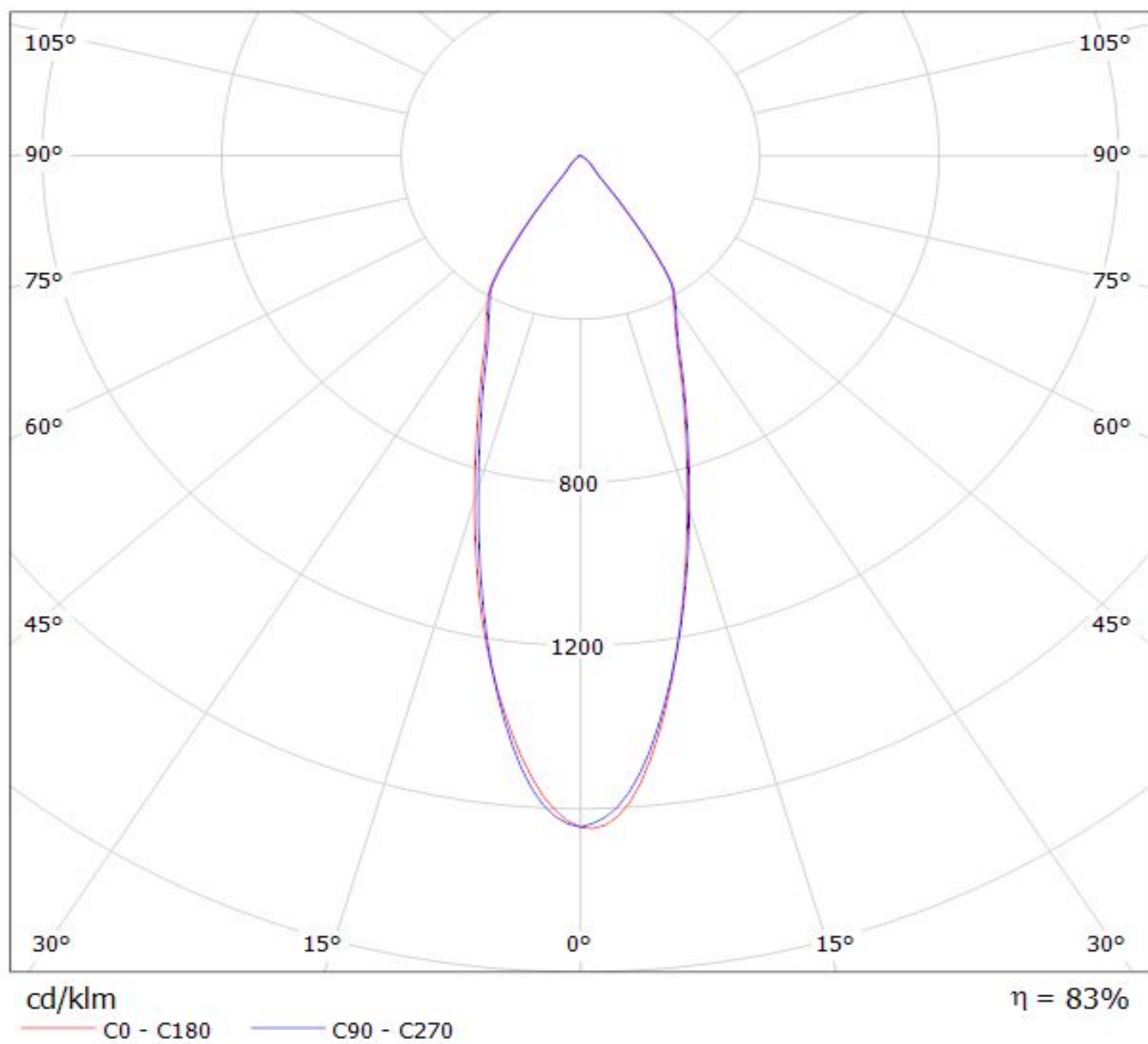
Lamps: 1 x SLE GEN4 LES19_1227.01lm@250mA_P=8.21492W_I=0.2498A



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

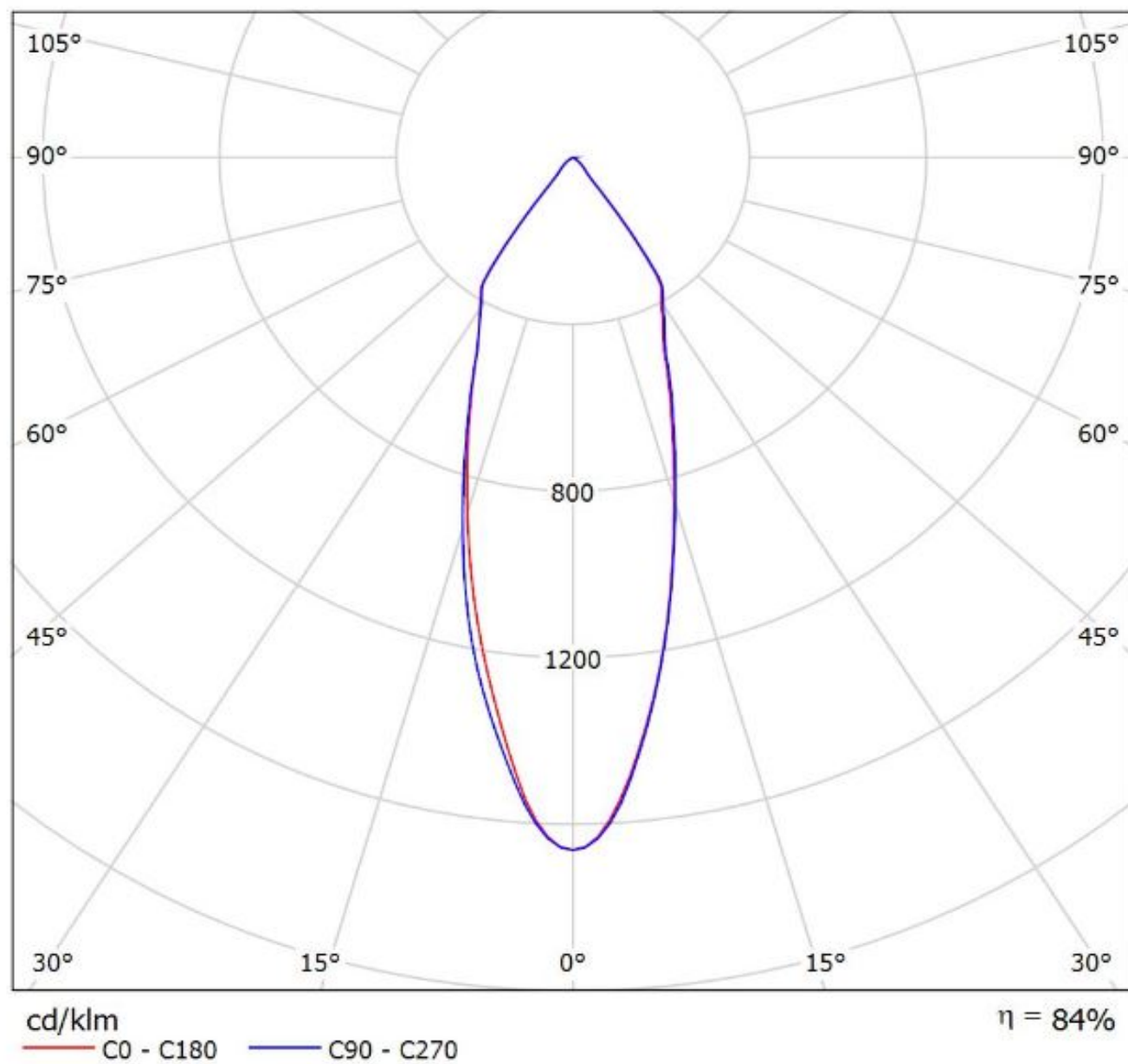


Luminaire: LEDiL Oy F13381_ANGELA-W_(PrevaLED_LES19)
Lamps: 1 x Osram_PrevaLED_CORE_Z3_LES19_(PL-CORE-2000-830-Z3)
_1356.73lm@250mA_P=10.5228W_I=249.9mA



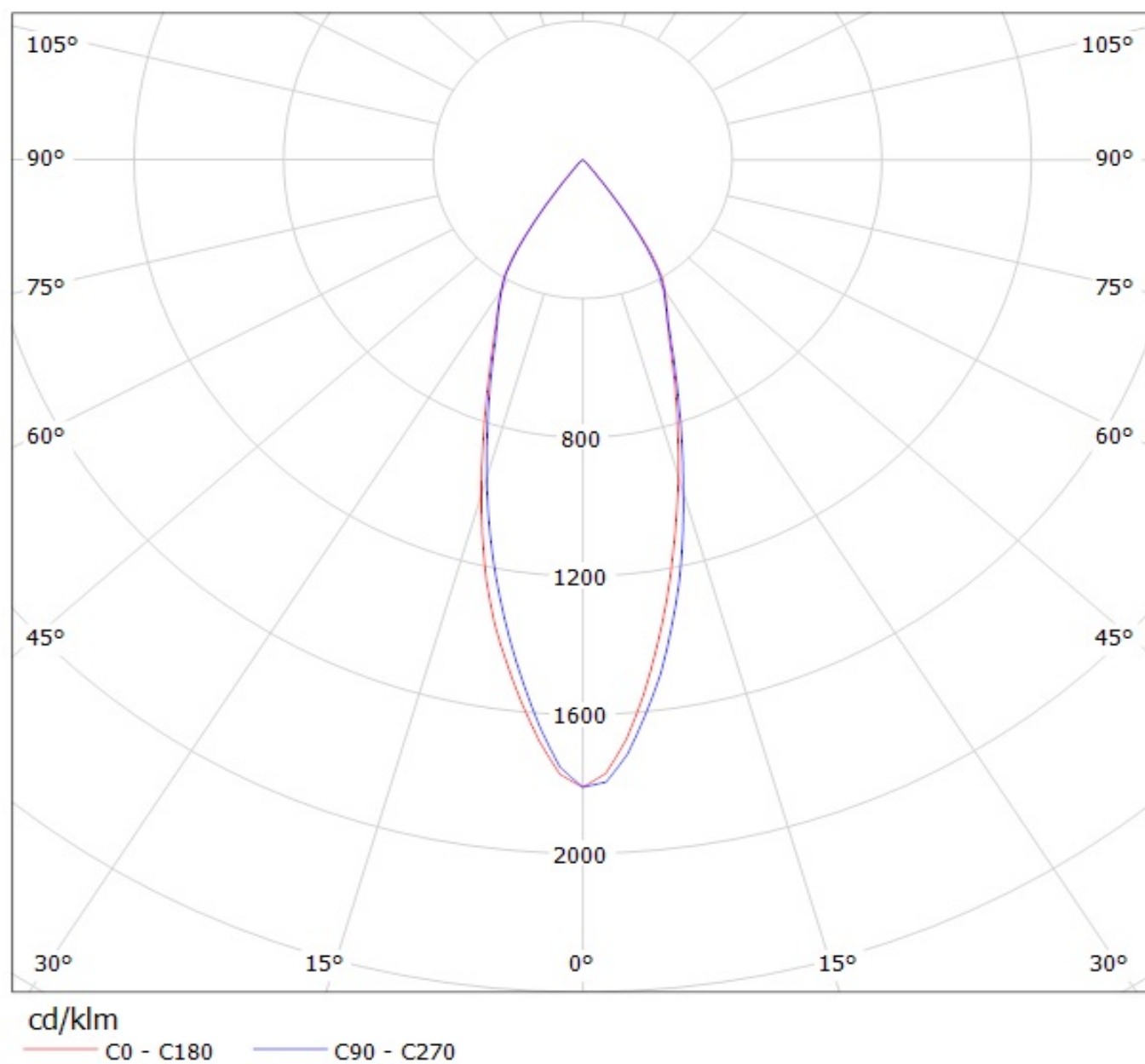
Luminaire: LEDiL Oy F13381_ANGELA-W_(SOLERIQ_P13)

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



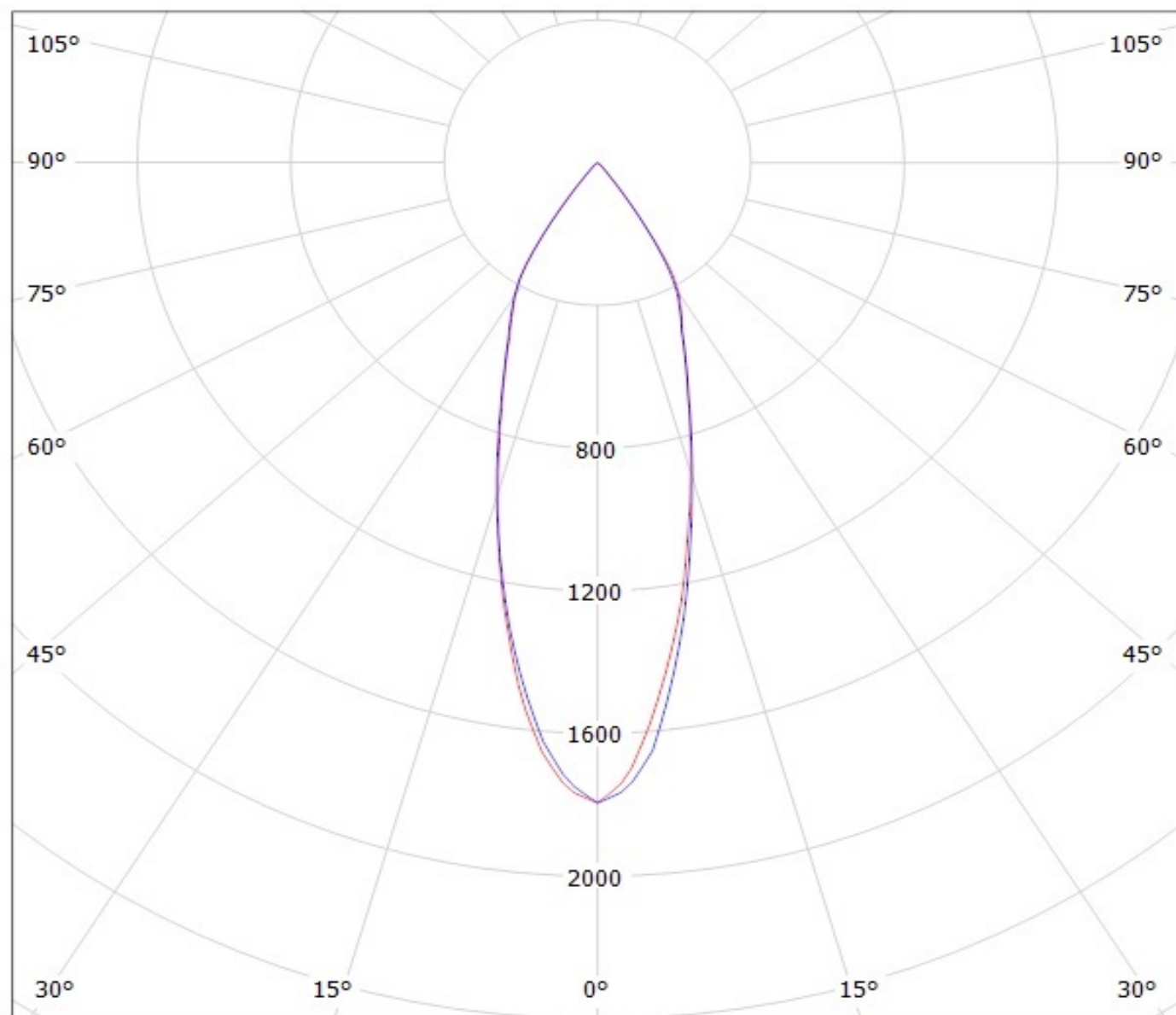
Luminaire: LEDil Oy F13381_ANGELA-W_(Soleriq_S13) Efficiency=85%

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



Luminaire: LEDil Oy F13381_ANGELA-W_(NFDxJ130B)

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

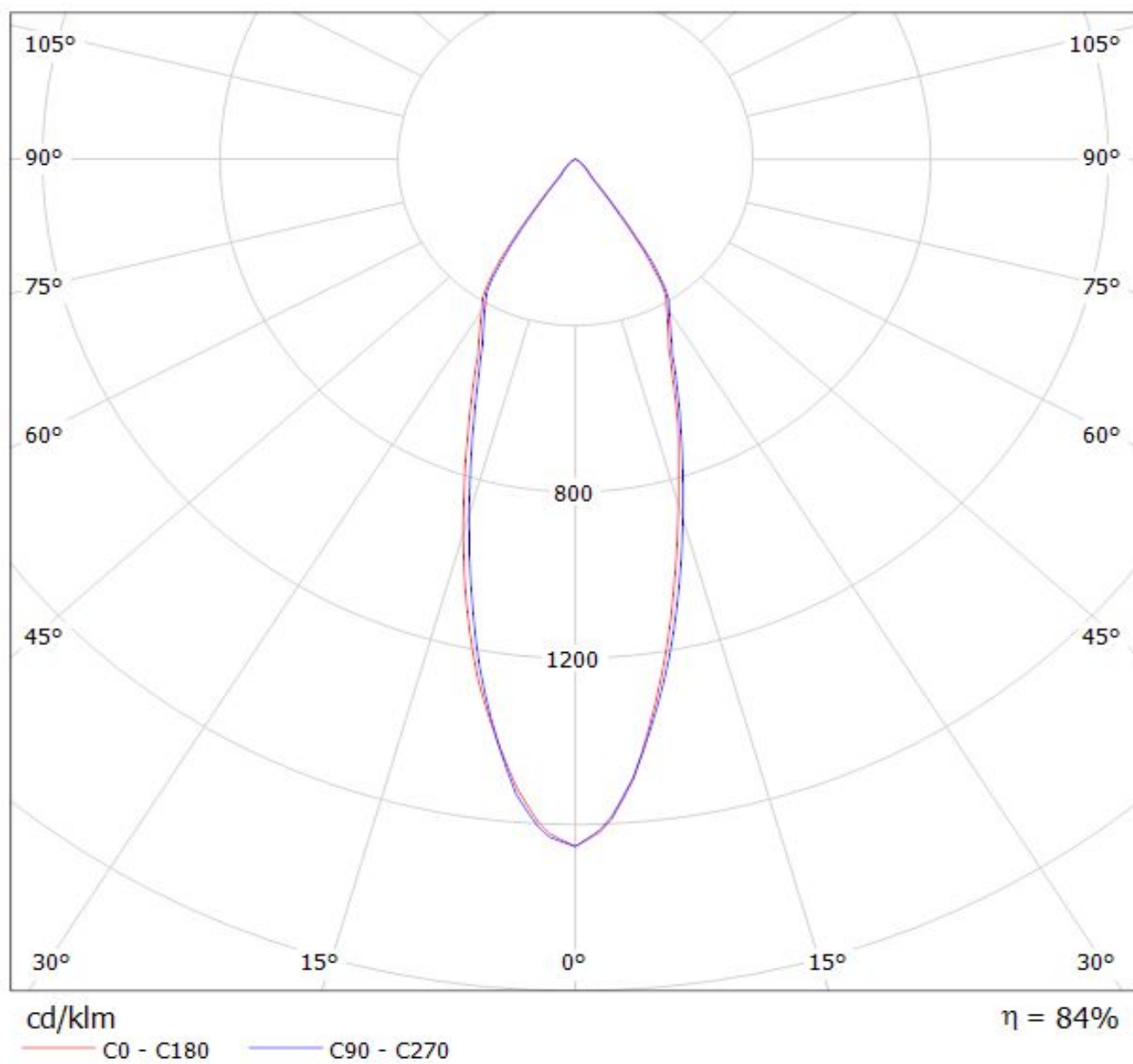


cd/klm

— C0 - C180

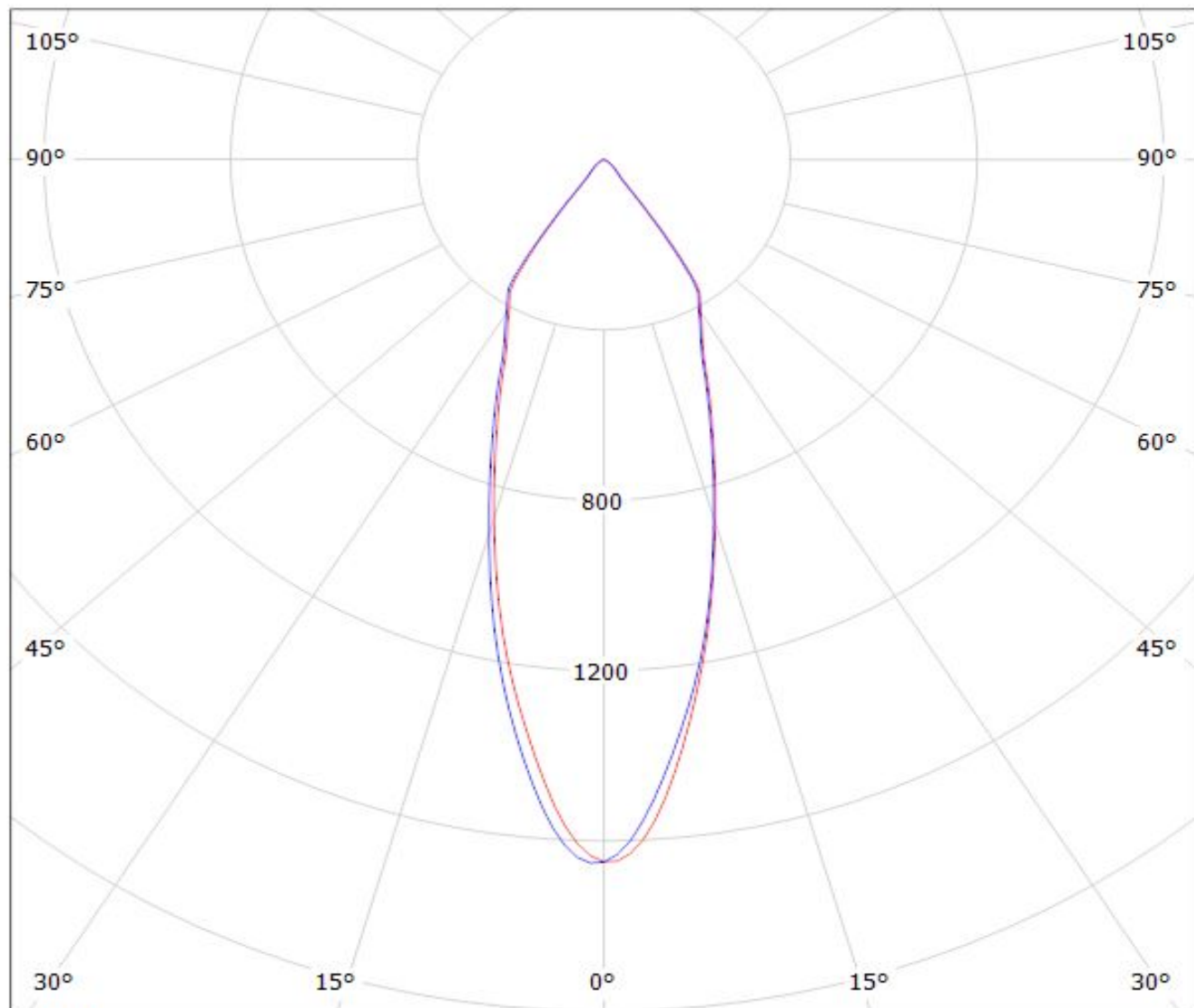
— C90 - C270

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



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

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



cd/klm

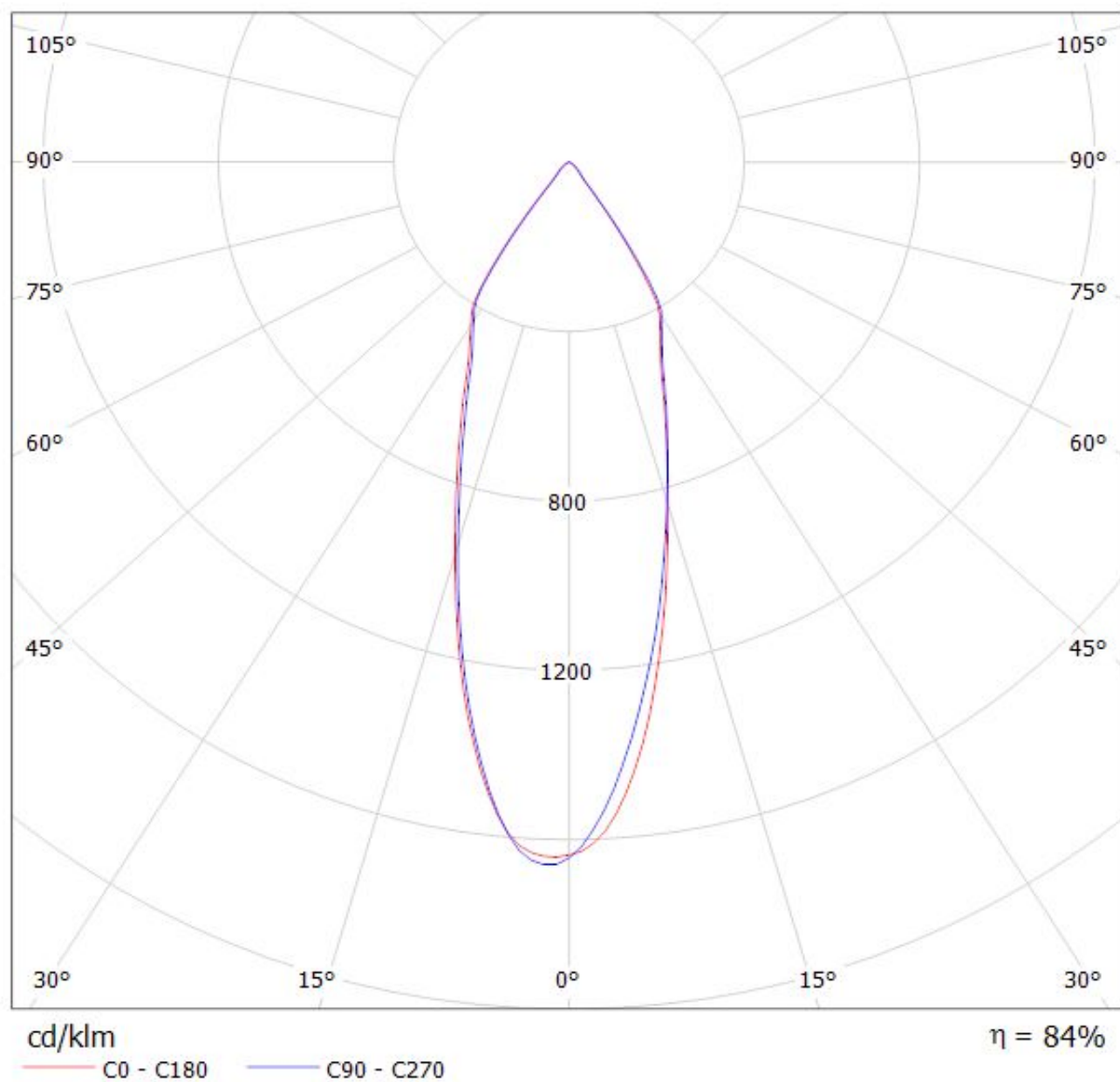
— C0 - C180

— C90 - C270

$\eta = 84\%$

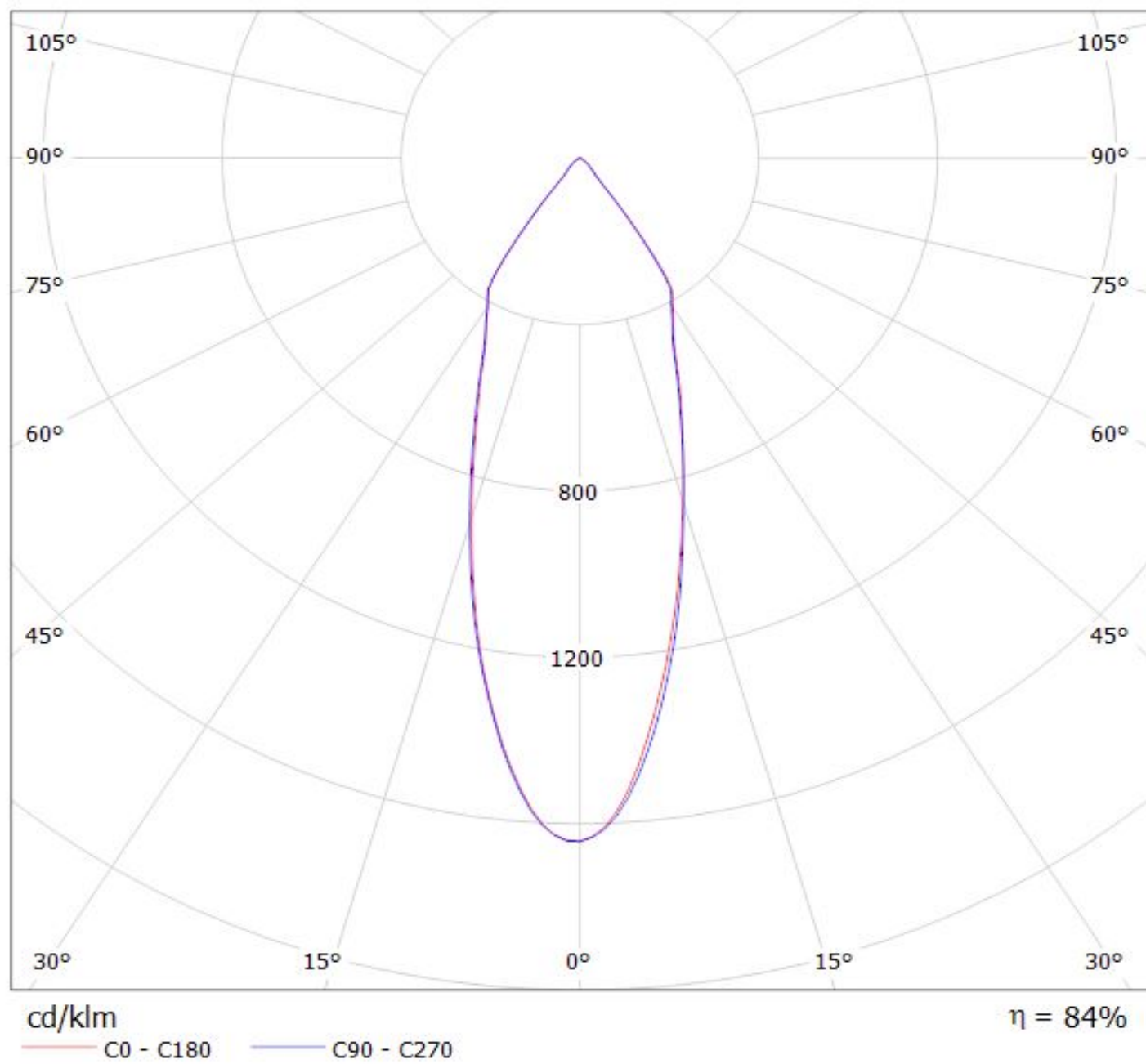
Luminaire: LEDiL Oy F13381_ANGELA-W_(LEP-2000-827-C-AC)

Lamps: 1 x OSRAM PrevaLED Core AC (LEP-2000-827-C-AC)



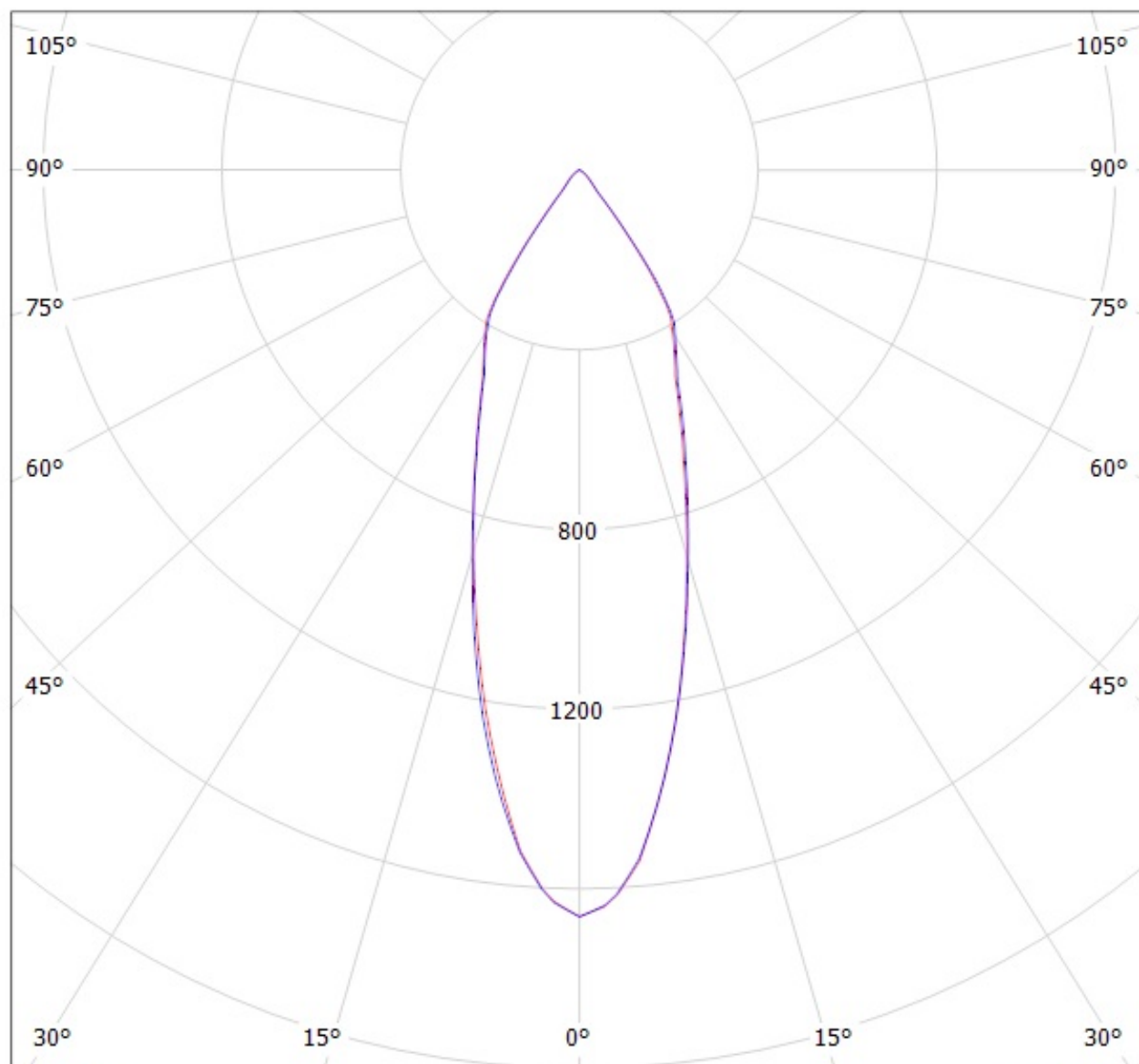
Luminaire: LEDiL Oy F13381_ANGELA-W_(Fortimo LED SLM L15 G4)

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



Luminaire: LEDiL Oy F13381_ANGELA-W_(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

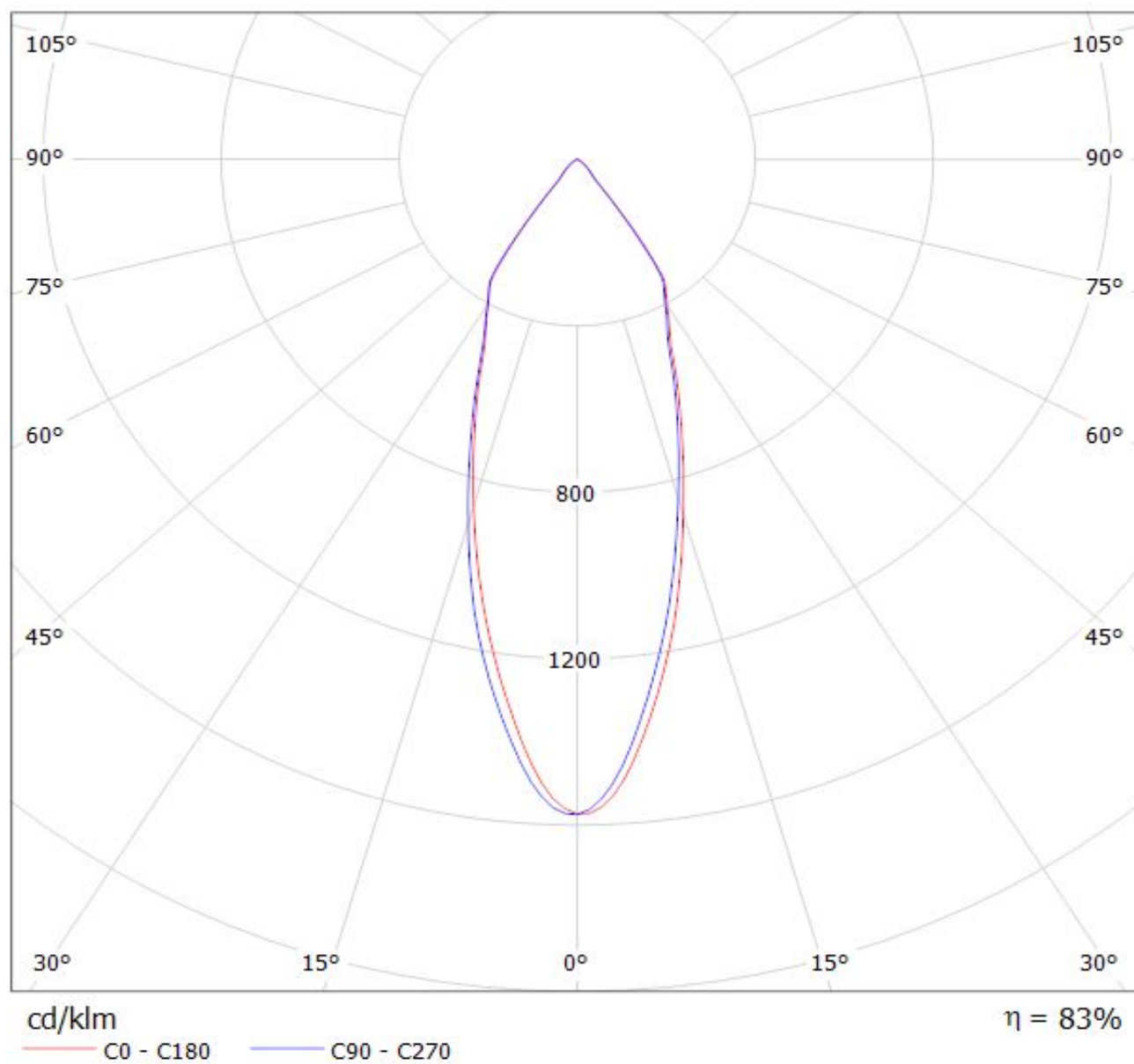
— C0 - C180

— C90 - C270

$\eta = 84\%$

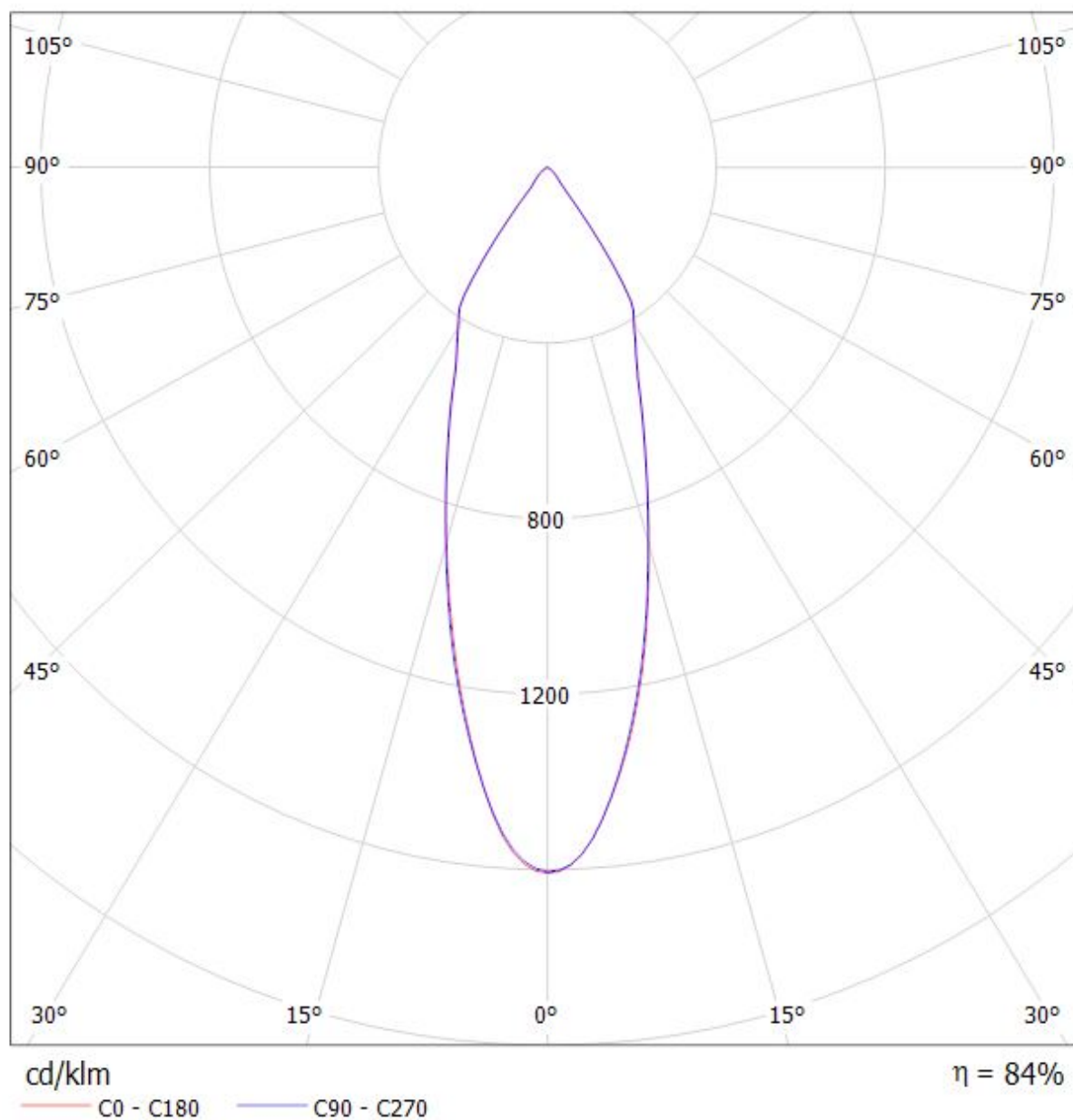
Luminaire: LEDiL Oy F13381_ANGELA-W_(WU-M-484)

Lamps: 1 x Vossloh_Schwabe-WU-M-484_(WU-M-484-830)_657.72lm@250mA_P=5.59451W_I=249.9mA

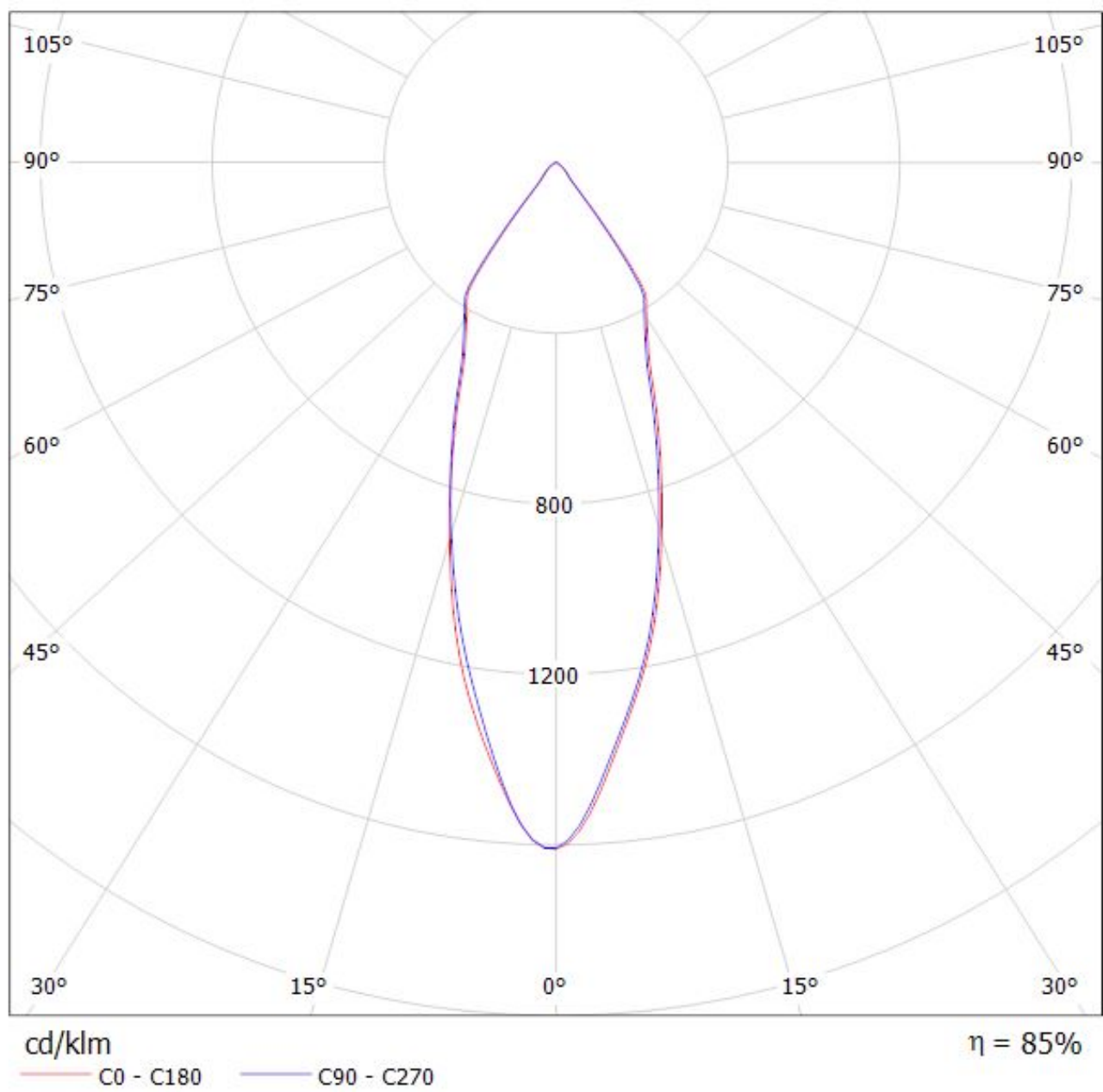


Luminaire: LEDiL Oy F13381_ANGELA-W_(SOLERIQ_S19_&_TE_2213407-2)

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

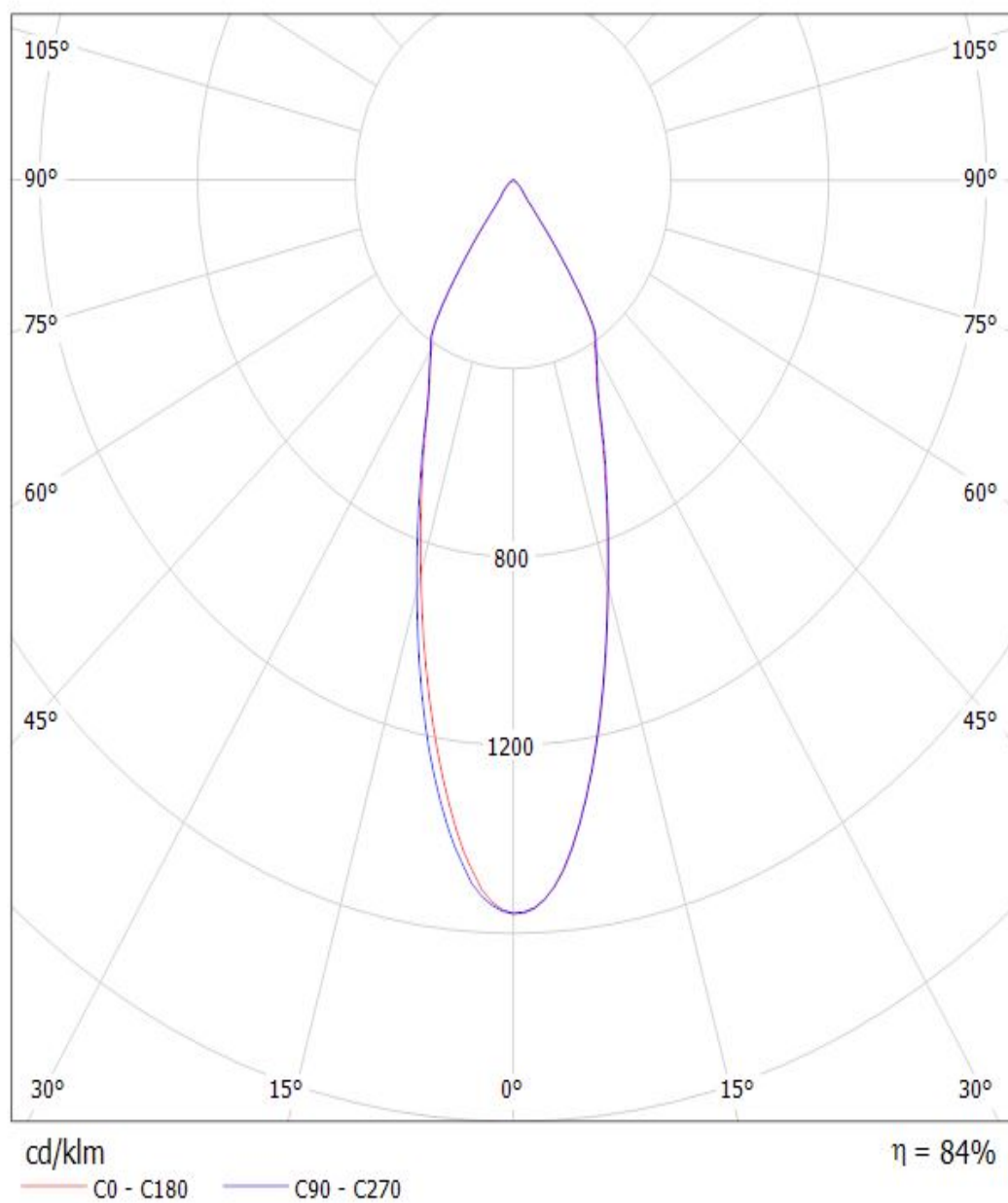


Luminaire: LEDiL Oy F13381_ANGELA-W_(NSBxL121A)
Lamps: 1 x Nichia_NSBxL121A_914.478lm@250mA_P=7.56872W_I=249.9mA

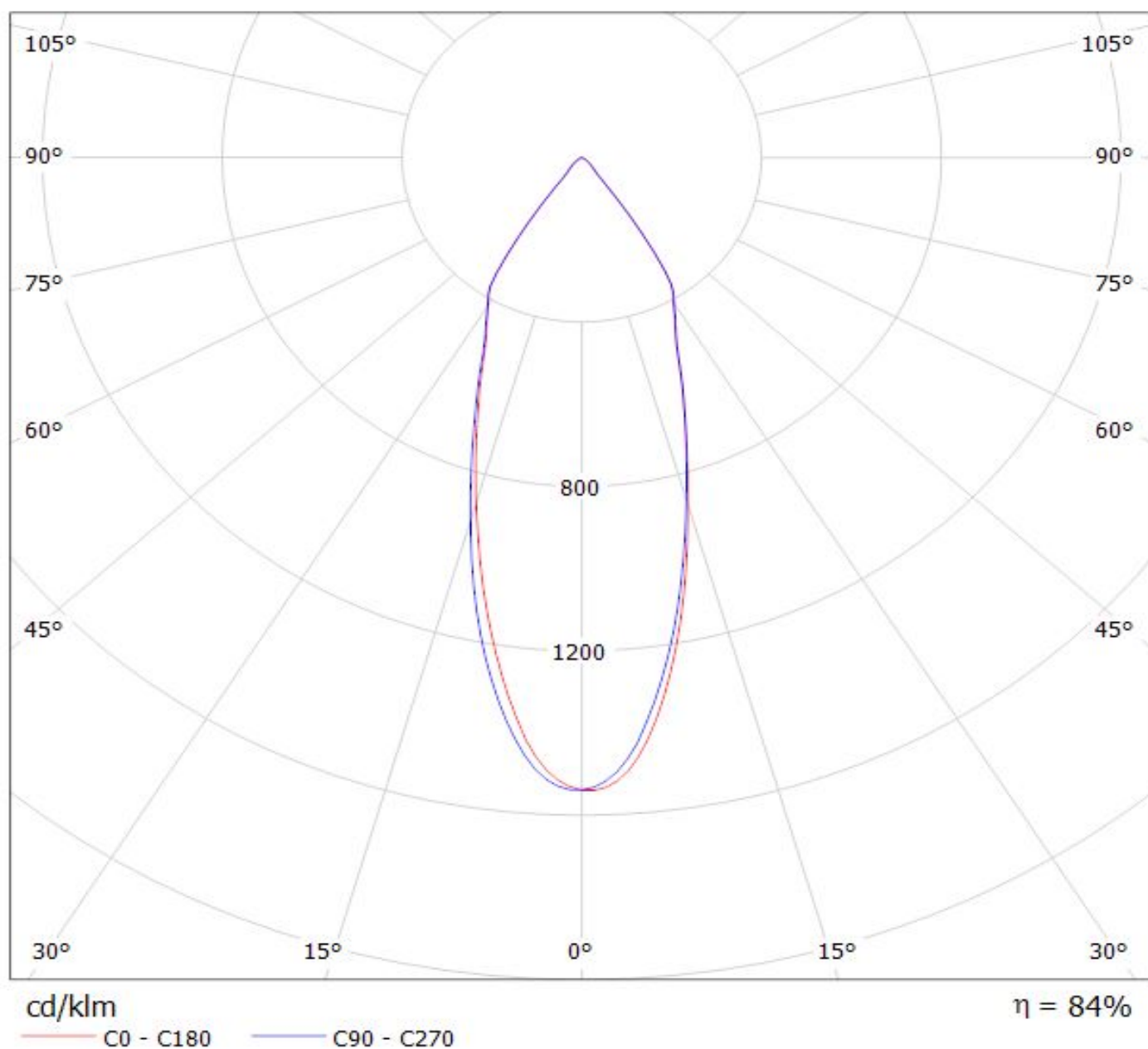


Luminaire: LEDiL Oy F13381_ANGELA-W_(STARK_LES19)

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

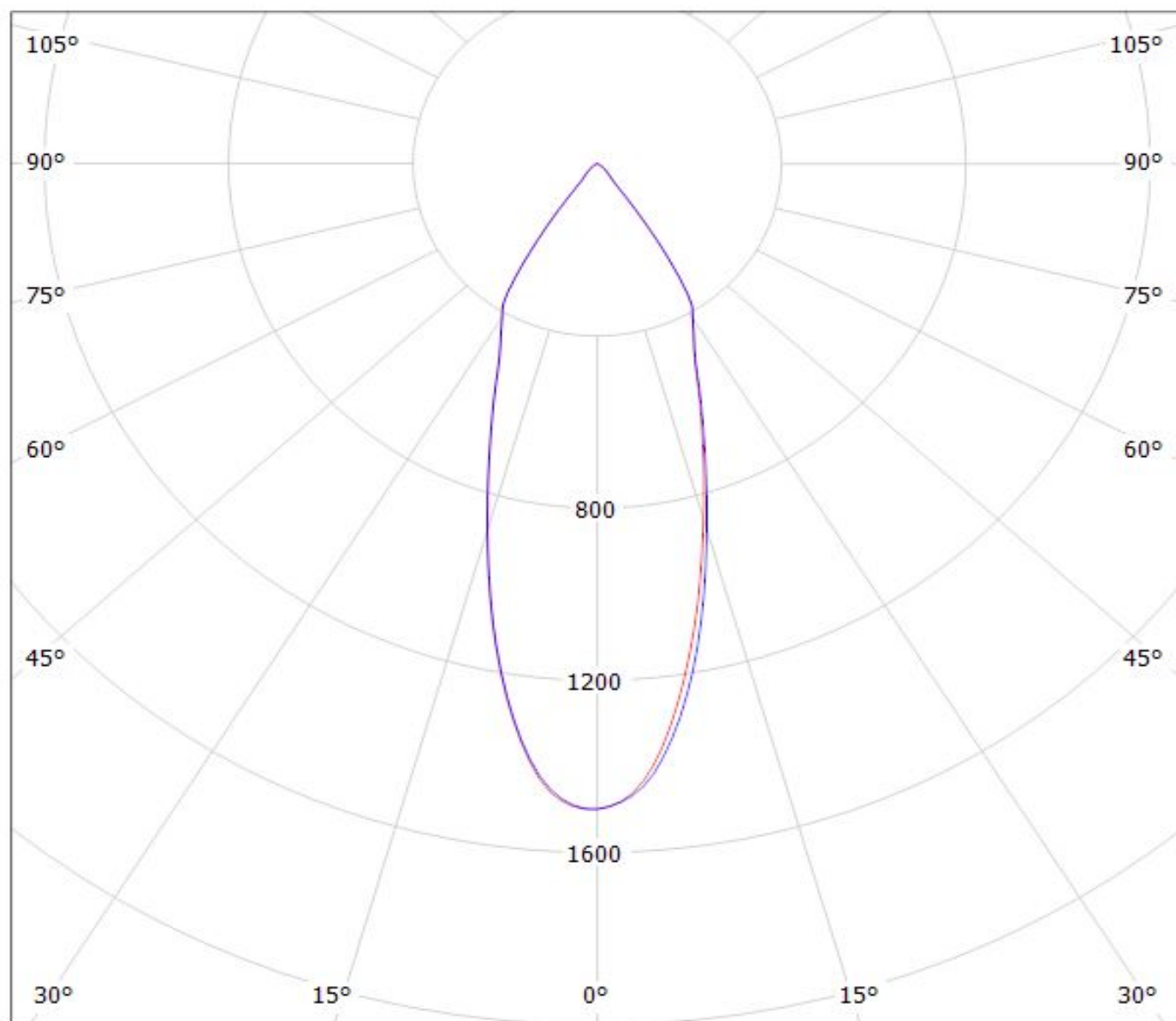


Luminaire: LEDiL Oy F13381_ANGELA-W_(COB-LC026B) Eff.83.8%
Lamps: 1 x SAMSUNG_COB-LC026B_(SPHWWTHDNC25YHV52F)
_1122.94lm@250mA_P=8.2479W_I=249.8mA



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



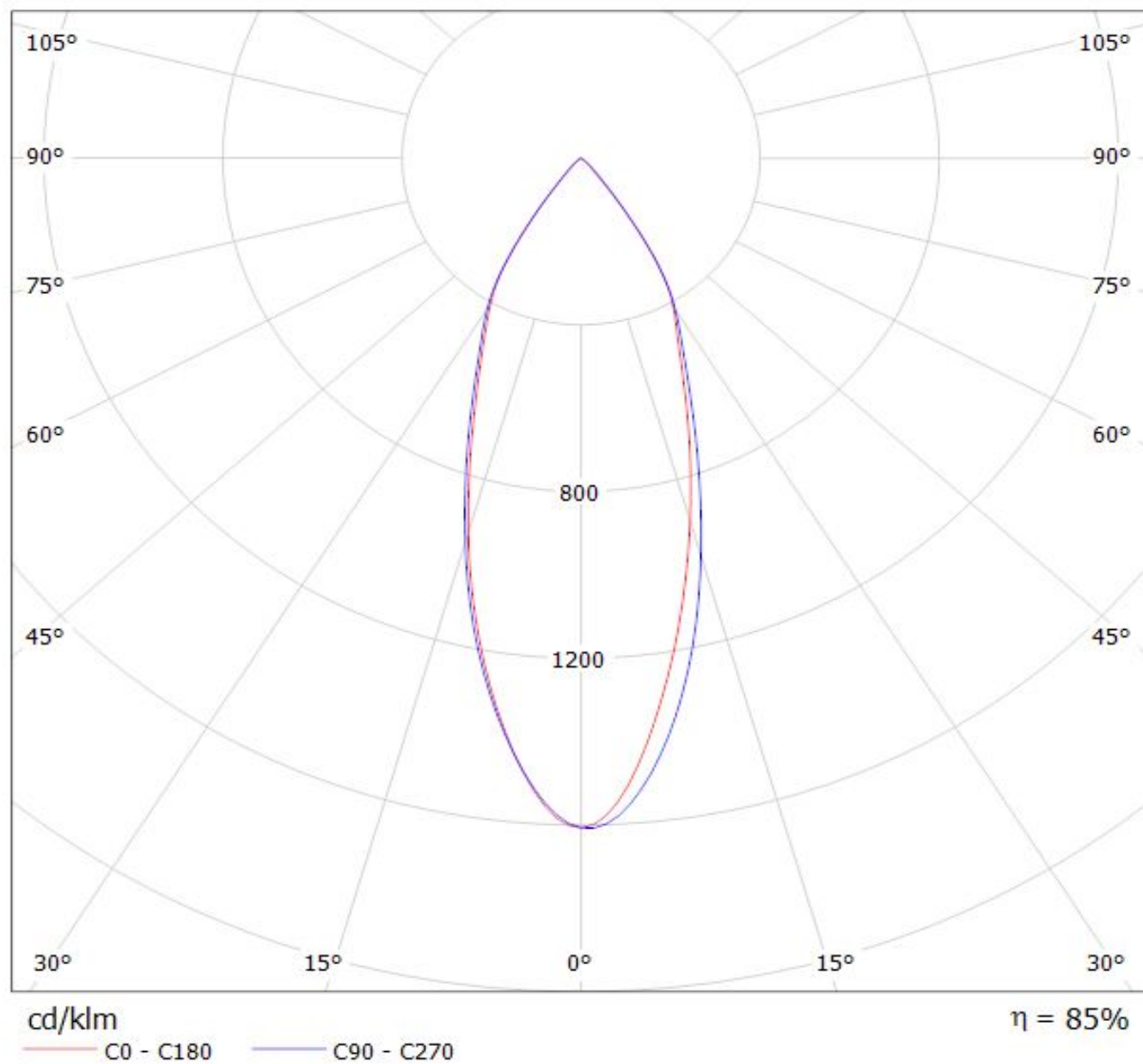
cd/klm

$\eta = 83\%$

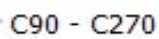
C0 - C180

C90 - C270

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

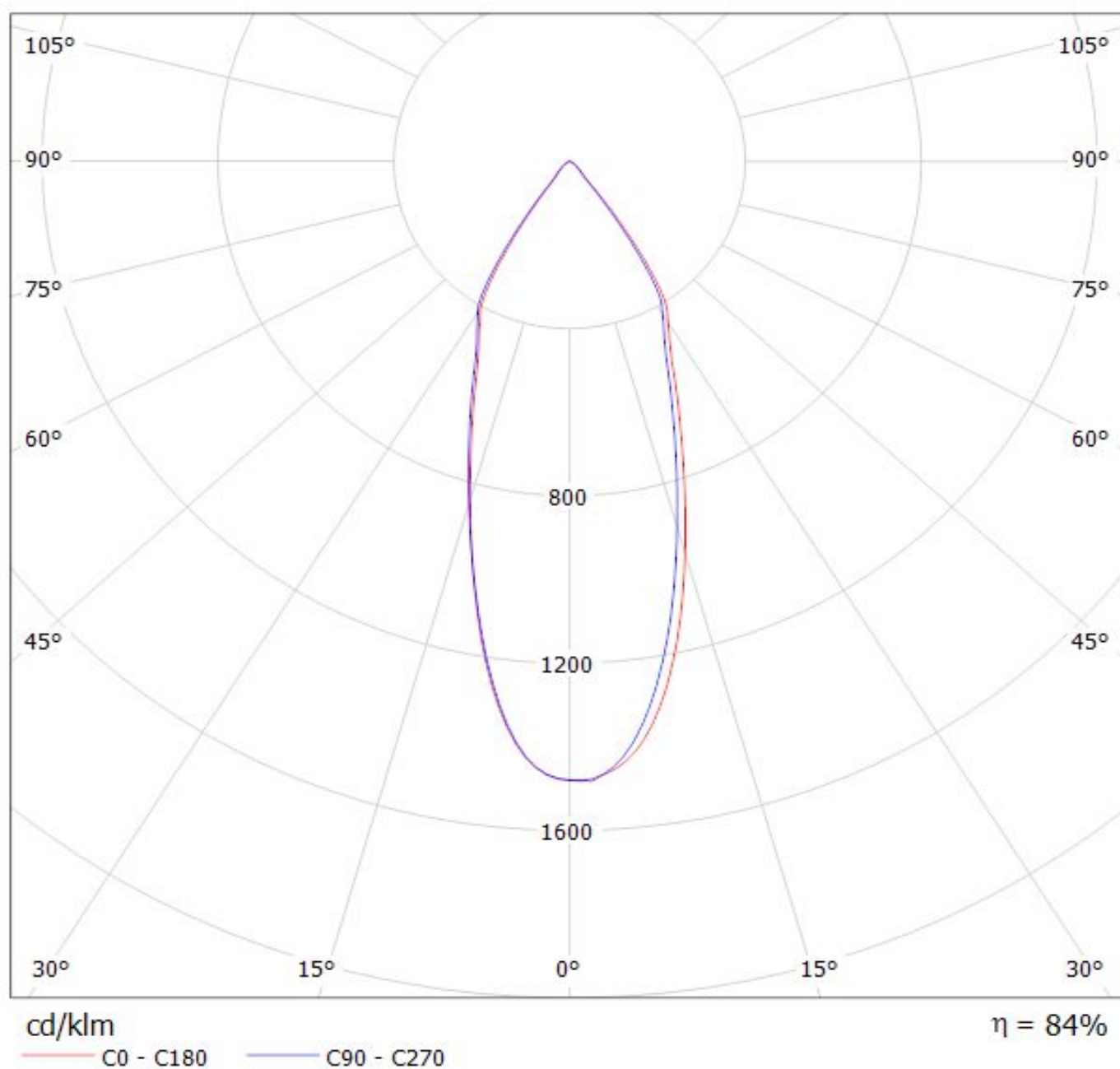


$\bar{I}=1130.05\text{mA}@250\text{mA}$ $\bar{P}=10.0097\text{W}$ $\bar{I}=249.9\text{mA}$



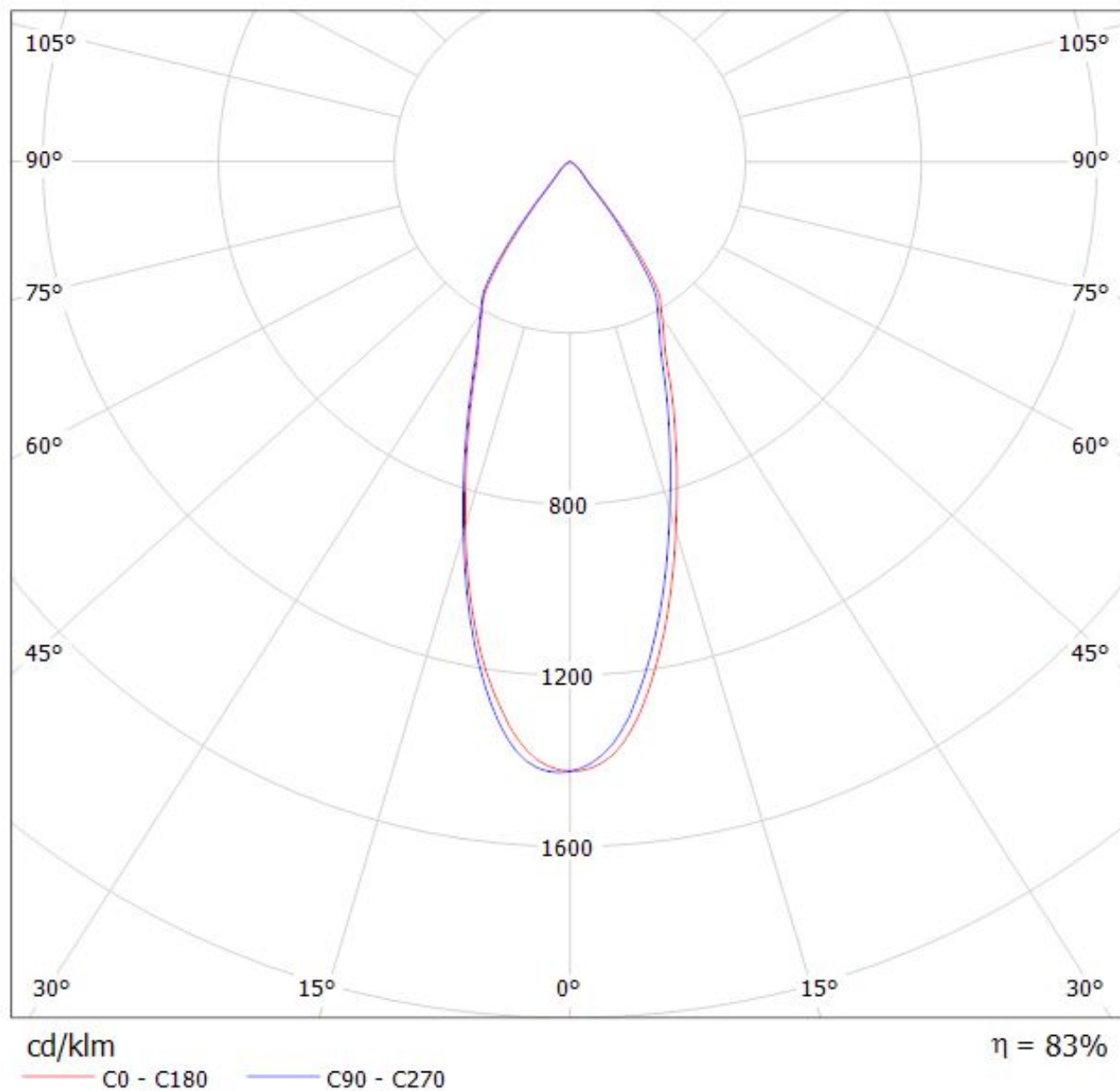
Luminaire: LEDiL Oy F13381_ANGELA-W_(SLE_G4_LES23)

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

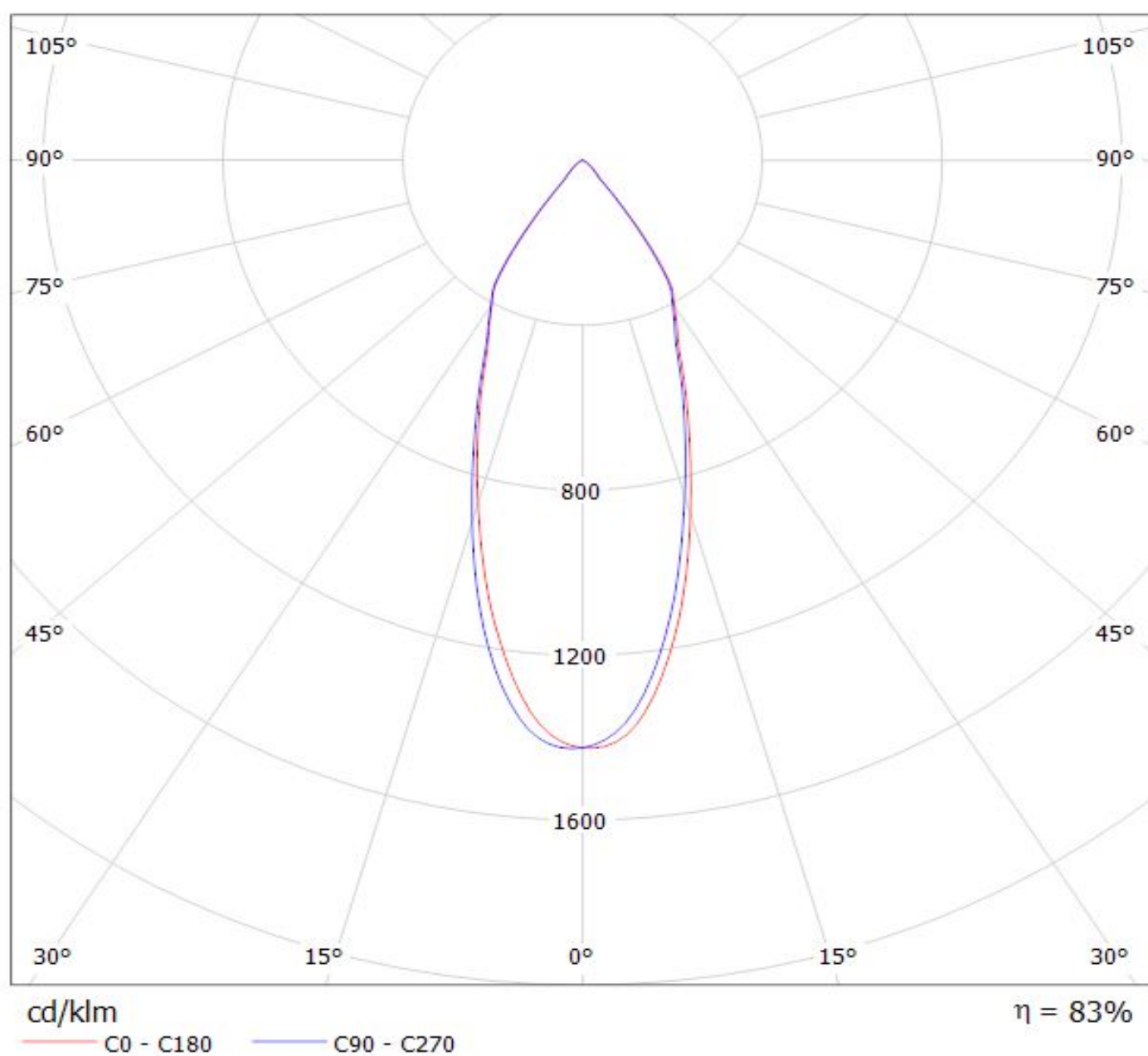


Luminaire: LEDiL Oy F13381_ANGELA-W_(WU-M-485)

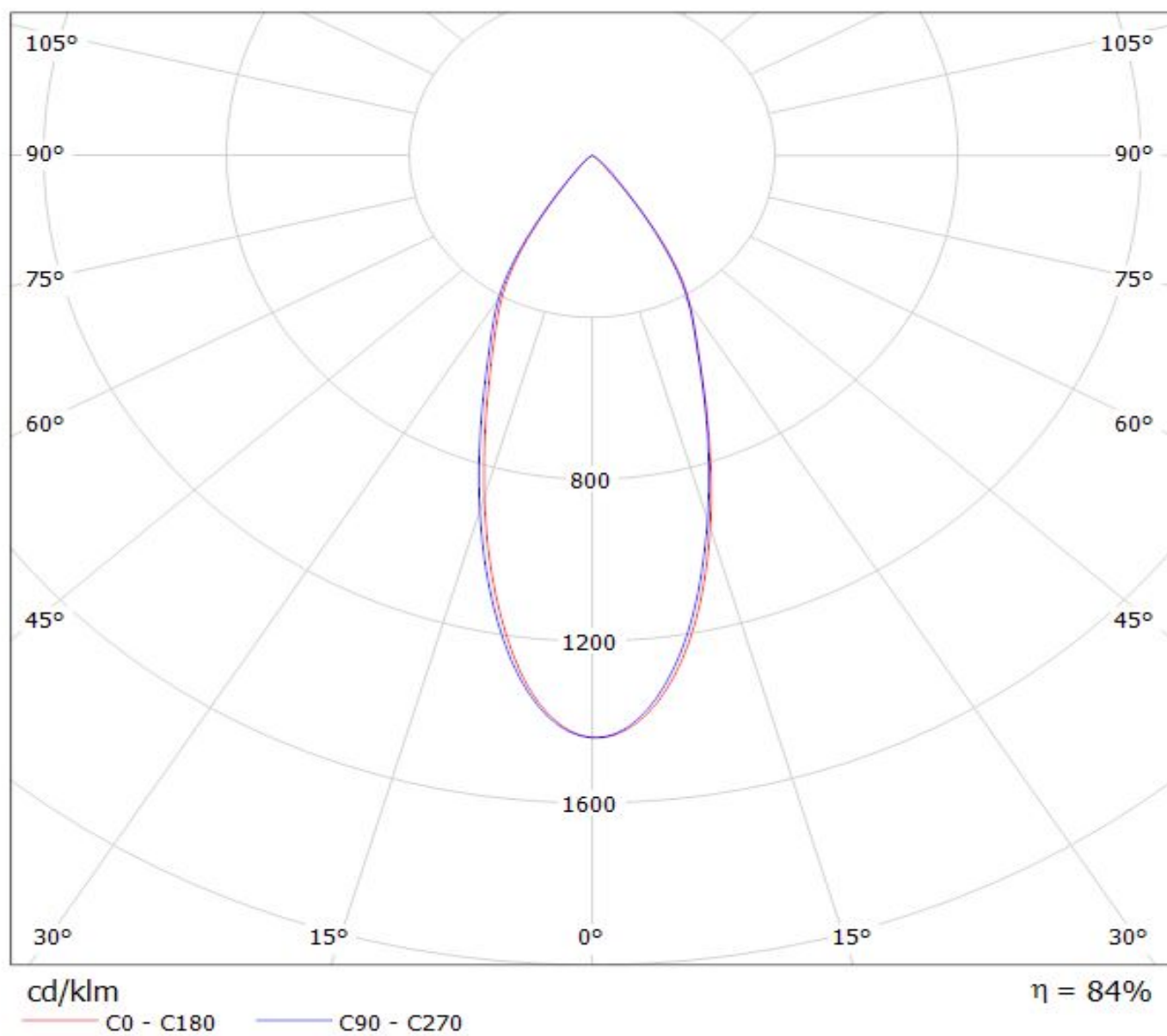
Lamps: 1 x Vossloh_Schwabe-WU-M-485_(WU-M-485-830)_1209.62lm@250mA_P=8.43849W_I=249.8mA



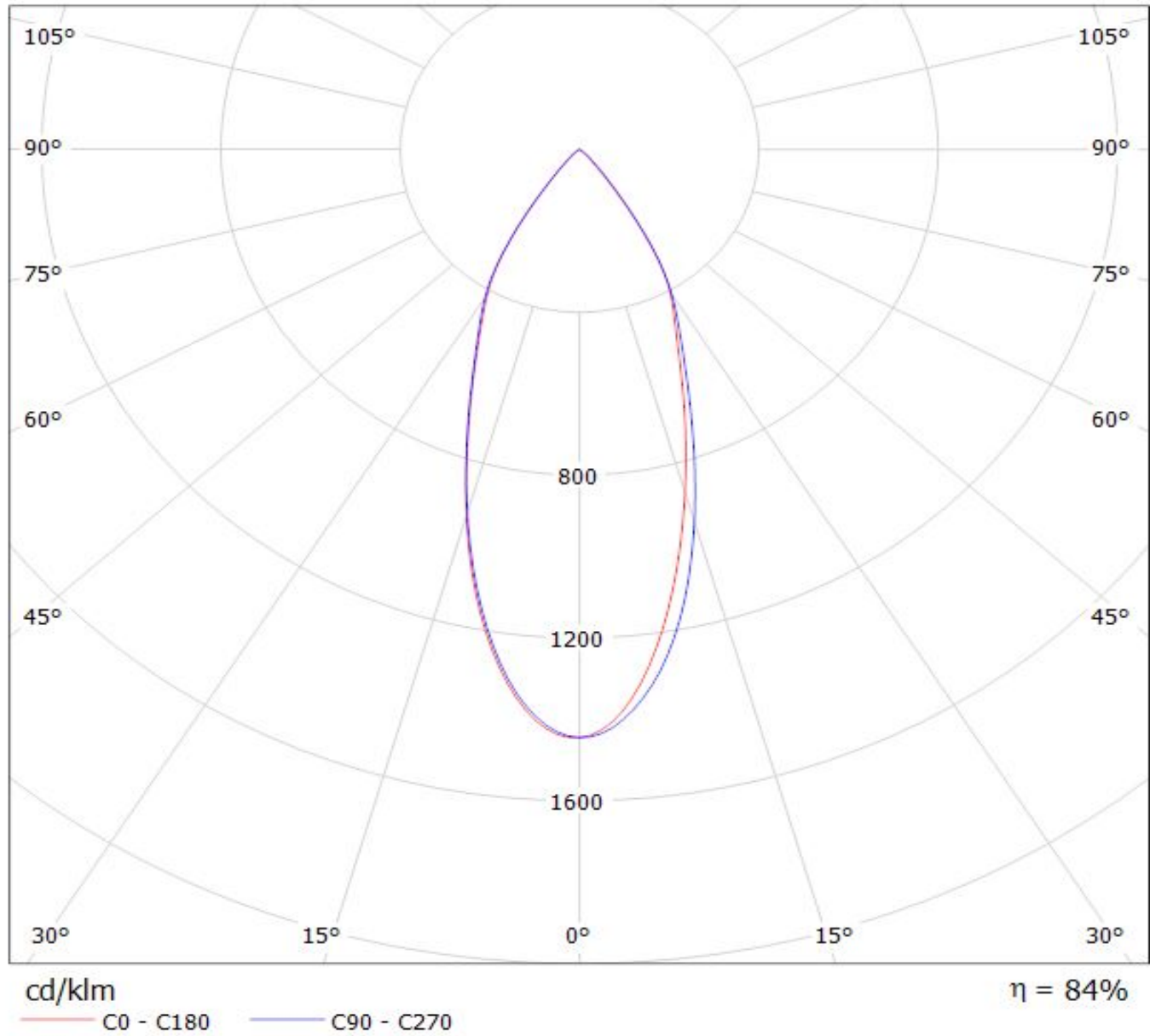
Luminaire: LEDiL Oy F13381_ANGELA-W_(WU-M-486) Eff.83.2%
Lamps: 1 x Vossloh_Schwabe-WU-M-486_(WU-M-486-830)
_1474.55lm@250mA_P=10.4456W_I=249.8mA



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

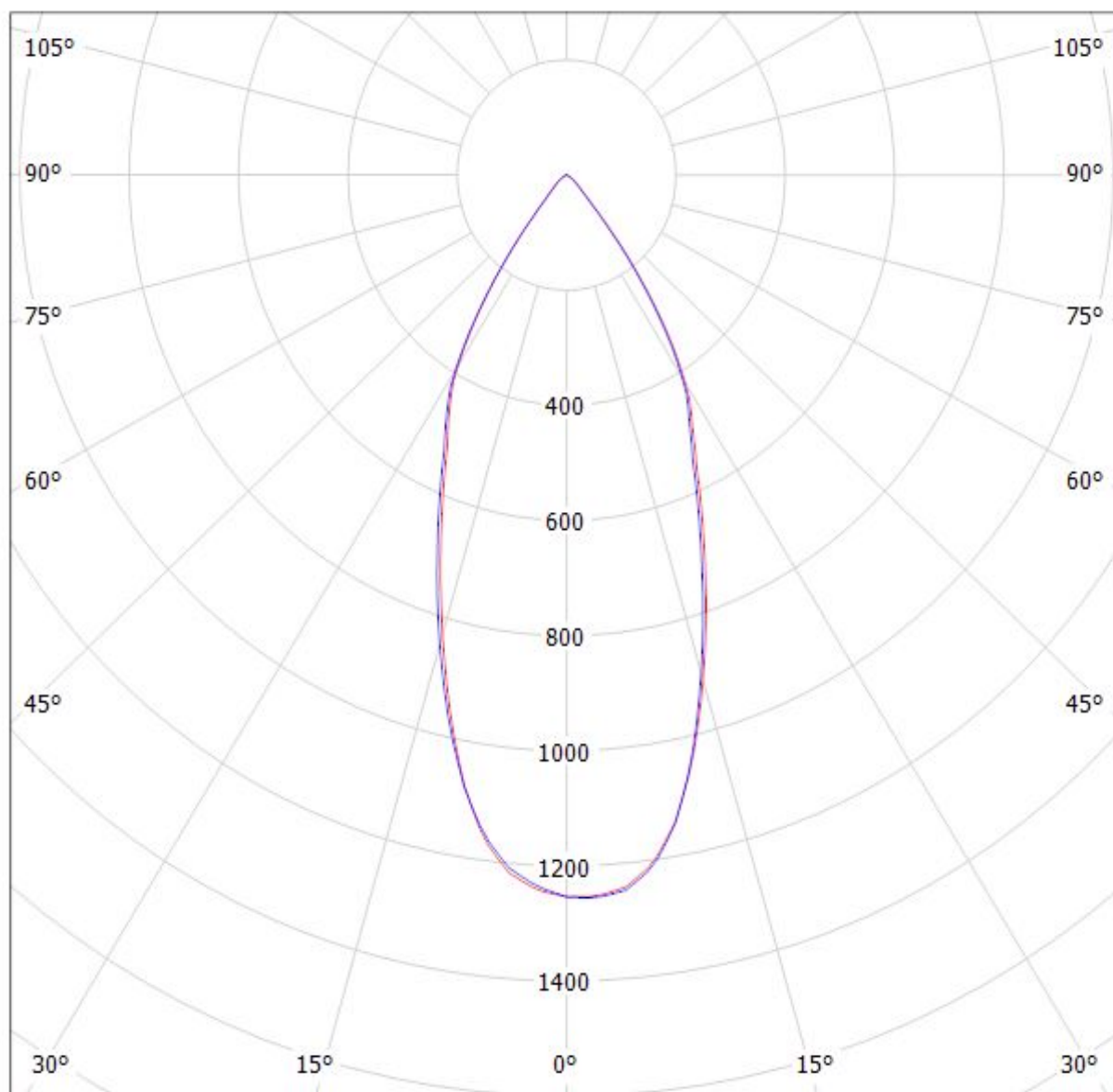


Luminaire: LEDiL F13381_ANGELA-W_(WU-M-464)
Lamps: 1 x Vossloh-Schwabe WU-M-464-827 1480lm@250mA



Luminaire: LEDiL Oy F13381_ANGELA-W_(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

$\eta = 84\%$

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.
- Reflector is made of aluminium coated PC (120 degrees of Celcius / 248 degrees of Fahrenheit) with protective lacquer (short term 100 degrees of Celcius / 212 degrees of Fahrenheit).

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.