

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 Compliant	Yes
Date Updated	13/06/2014



OPTICAL PROPERTIES

LED	Viewing Angle	Light Beam	Efficiency	cd/lm	connector
PrevaLED Core Z3 LES9	(simulated) 15		(simulated) 91 %	(simulated) 7.400	Z50 Optic Clip part n r. 2213194-1 TE
PrevaLED Core Z3 LES19	(simulated) 18		(simulated) 95 %	(simulated) 5.800	Z50 Optic Clip part n r. 2213194-1 TE
PrevaLED Core Z3 LES23	(simulated) 20		(simulated) 89 %	(simulated) 4.500	Z50 Optic Clip part n r. 2213194-1 TE
PrevaLED Core AC (LEP-800)	13 degrees		86 %	4.560	Z50 Optic Clip part n r. 2213194-1 TE
LUXEON CoB 1204/1205	15 degrees		85 %	3.930	Solderless connector part nr. 2213130-2 + Z50
Optic Clip part nr. 2213194-1 TE	15 degrees		86 %	4.200	Solderless connector part nr. 2213401-2 + Z50
LUXEON CoB 1202	16 degrees		85 %	3.700	Solderless connector part nr. 2213130-2 + Z50
Optic Clip part nr. 2213194-1 TE	16 degrees		85 %	3.860	TE: Solderless connec tor part nr 2213254-2 + Z50
Optic Clip part nr. 2213194-1 TE	16 degrees		86 %	3.740	Solderless connector part nr. 180580-0005 Molex
PrevaLED Core Z4 LES19	16 degrees		85 %	3.600	Z50 Optic Clip part n r. 2213194-1 TE
WU-M-484	17 degrees		85 %	3.600	Z50 Optic Clip part n r. 2213194-1 TE
Soleriq S19	17 degrees		86 %	3.510	Solderless connector part nr. 2213407-2 + Z50
Optic Clip part nr. 2213194-1 TE	17 degrees		85 %	3.470	Z50 Optic Clip part n r. 2213194-1 TE



PRODUCT DATASHEET
ANGELA series
last update 11/7/2014

WU-M-461

17 degrees

83 %

3.450

Z50 Optic Clip part n



PRODUCT DATASHEET
ANGELA series
last update 11/7/2014

r. 2213194-1 TE



PRODUCT DATASHEET
ANGELA series
last update 11/7/2014

STARK SLE G3 LES19

18 degrees

85 %

3.360

Z50 Optic Clip part n



PRODUCT DATASHEET
ANGELA series
last update 11/7/2014

r. 2213194-1 TE



PRODUCT DATASHEET
ANGELA series
last update 11/7/2014

LC026B/LC040B

18 degrees

85 %

3.300

Solderless connector



PRODUCT DATASHEET
ANGELA series
last update 11/7/2014

Optic Clip part nr. 2213194-1 TE

part nr. 2213258-2 + Z50



PRODUCT DATASHEET
ANGELA series
last update 11/7/2014

WU-M-485

20 degrees

85 %

2.890

Z50 Optic Clip part n



PRODUCT DATASHEET
ANGELA series
last update 11/7/2014

r. 2213194-1 TE



PRODUCT DATASHEET
ANGELA series
last update 11/7/2014

WU-M-486

20 degrees

84 %

2.900

Z50 Optic Clip part n



PRODUCT DATASHEET
ANGELA series
last update 11/7/2014

r. 2213194-1 TE



PRODUCT DATASHEET
ANGELA series
last update 11/7/2014

WU-M-462

20 degrees

85 %

3.000

Z50 Optic Clip part n



PRODUCT DATASHEET
ANGELA series
last update 11/7/2014

r. 2213194-1 TE



PRODUCT DATASHEET
ANGELA series
last update 11/7/2014

WU-M-464

20 degrees

85 %

3.000

Z50 Optic Clip part n



PRODUCT DATASHEET
ANGELA series
last update 11/7/2014

r. 2213194-1 TE



PRODUCT DATASHEET
ANGELA series
last update 11/7/2014

STARK SLE G3 LES23

21 degrees

85 %

2.800

Z50 Optic Clip part n



PRODUCT DATASHEET
ANGELA series
last update 11/7/2014

r. 2213194-1 TE



PRODUCT DATASHEET
ANGELA series
last update 11/7/2014

-2300AN) IDEAL

D

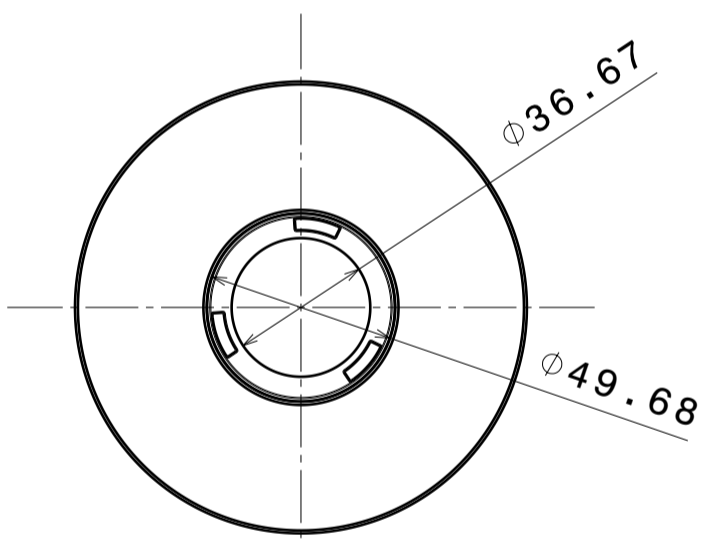
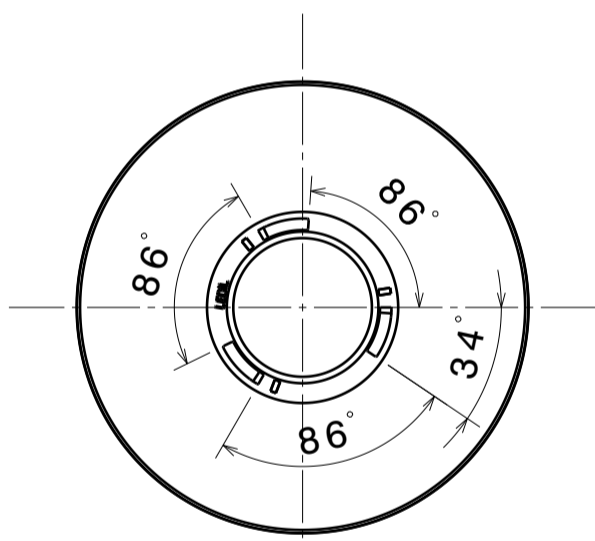
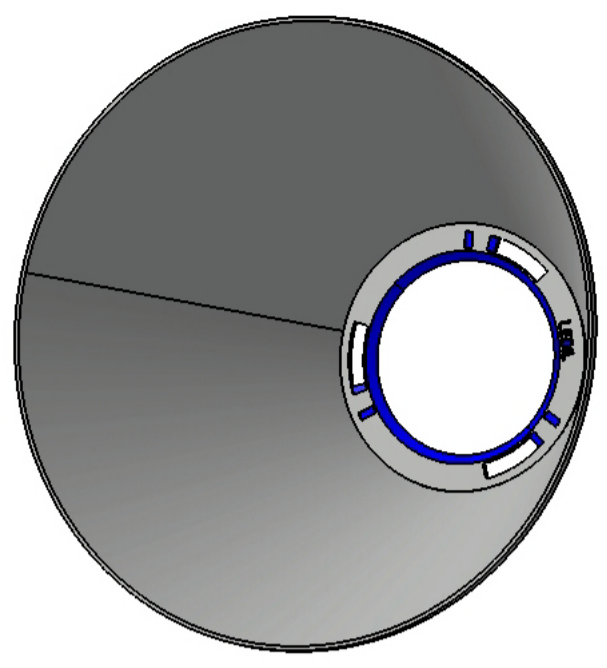
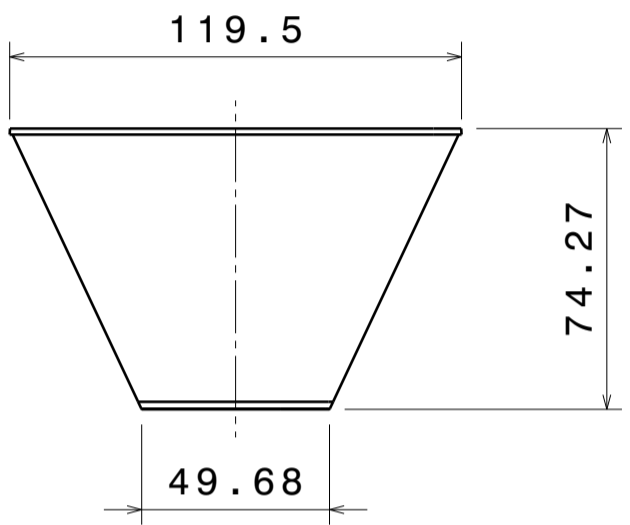
C

B

A

8
7
6
5
4
3
2
1

8
7
6
5
4
3
2
1



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

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."

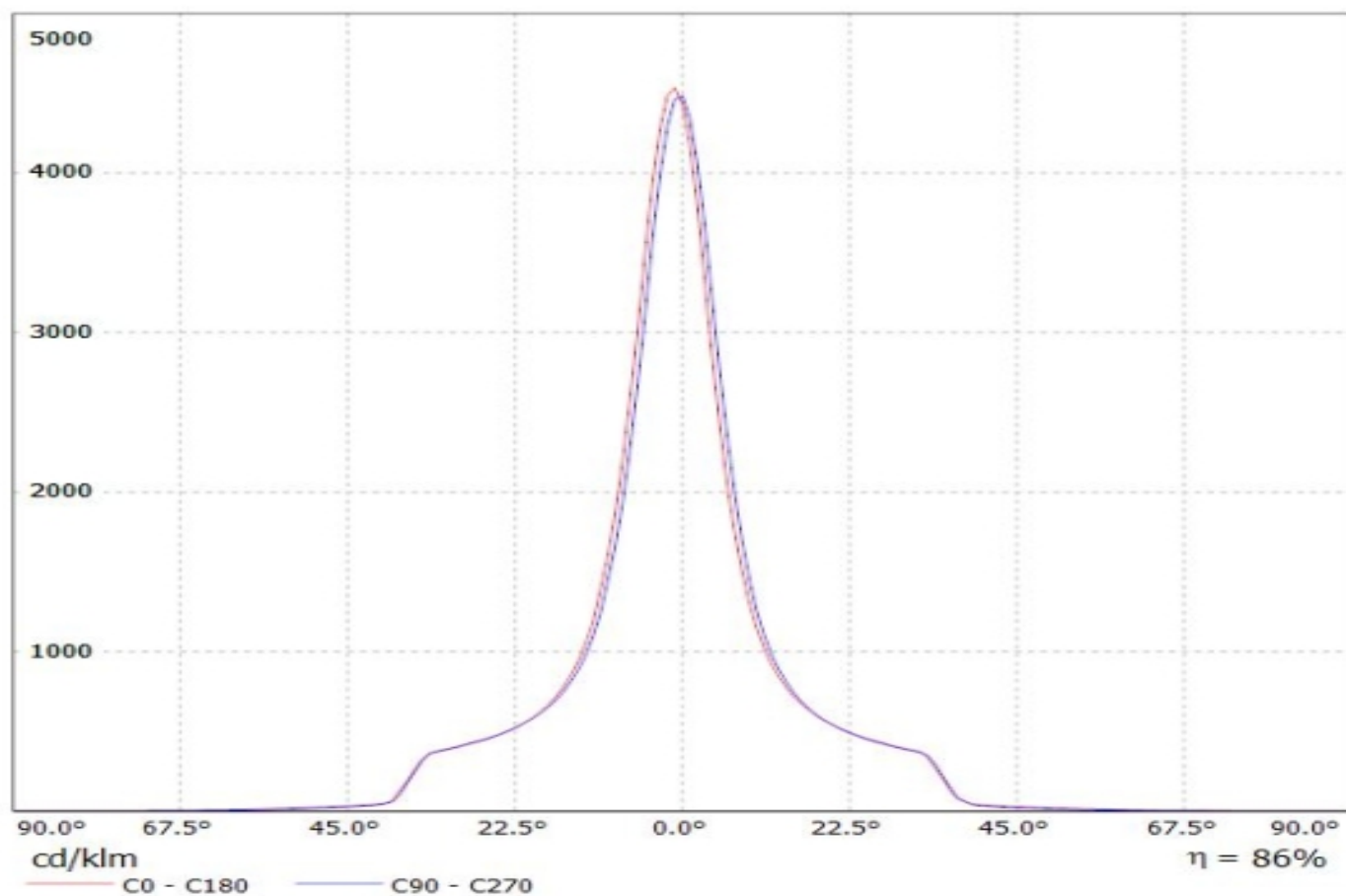
LEDiL		LediL Oy Salorankatu 10 FIN 24240 SALO Finland	
DRAWING TITLE		ANGELA_Datasheet	
SIZE	PART NUMBER		
A3	-		
SCALE	1:1	WEIGHT	-
SHEET		1/1	

D

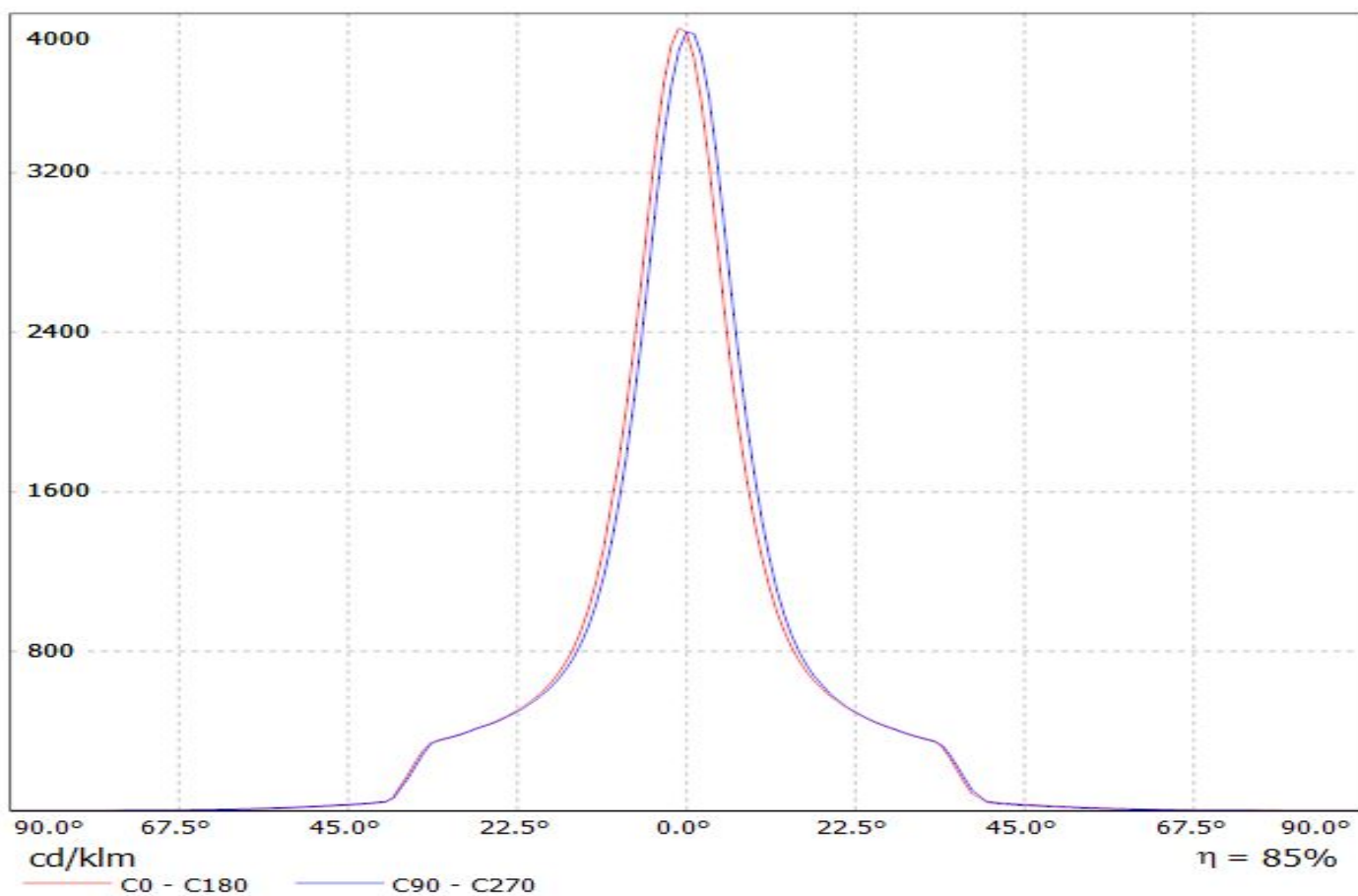
A

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

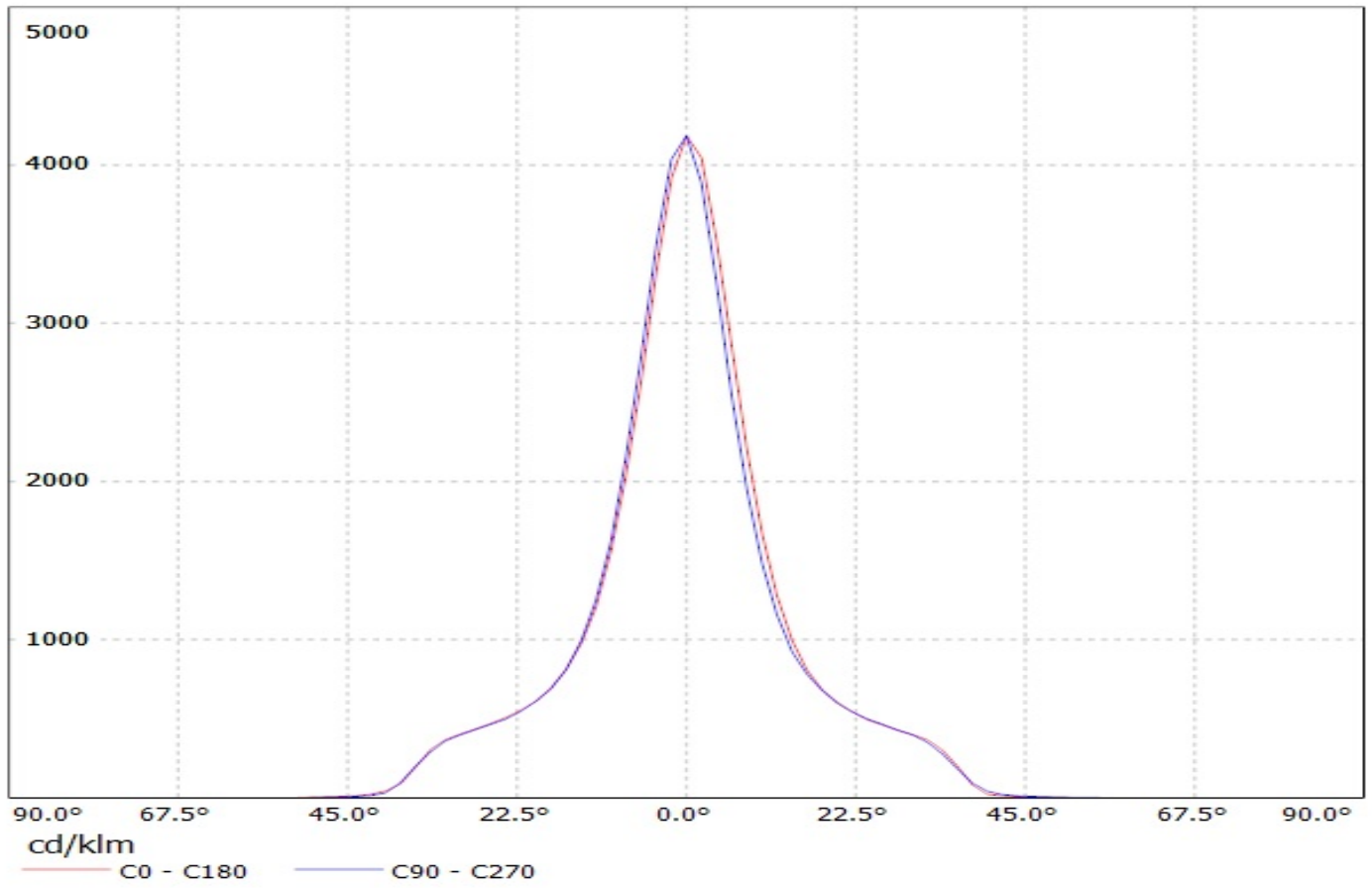
Lamps: 1 x OSRAM PrevaLED Core AC (LEP-800-827-C-AC) 910lm@60mA U:230V P: 14W



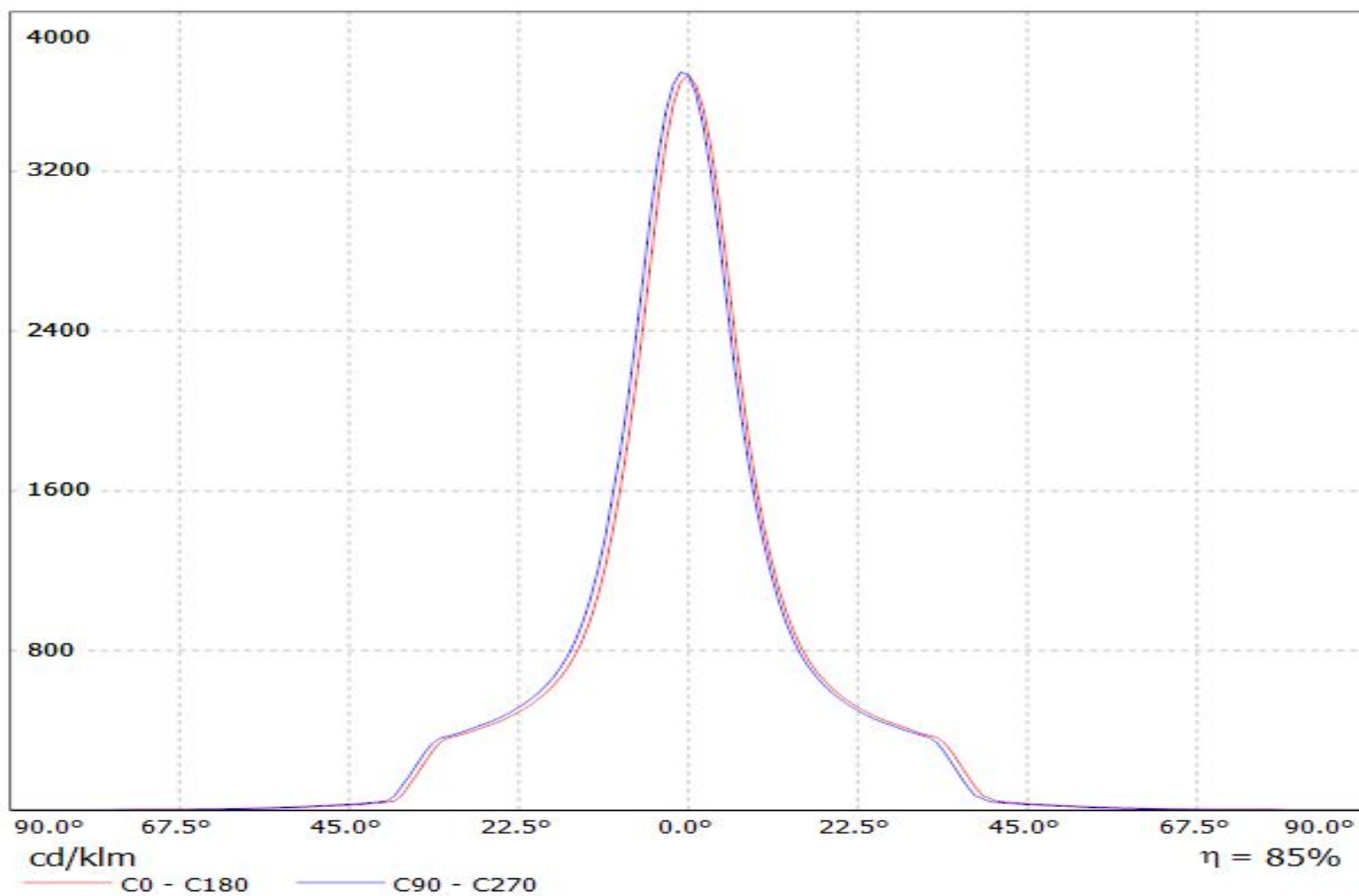
Luminaire: LEDiL Oy F13380_ANGELA-M_(COB_1205) Eff.85.3%
Lamps: 1 x Luxeon_COB_1205_1092.75lm@250mA_P=8.33092W_I=249.9mA



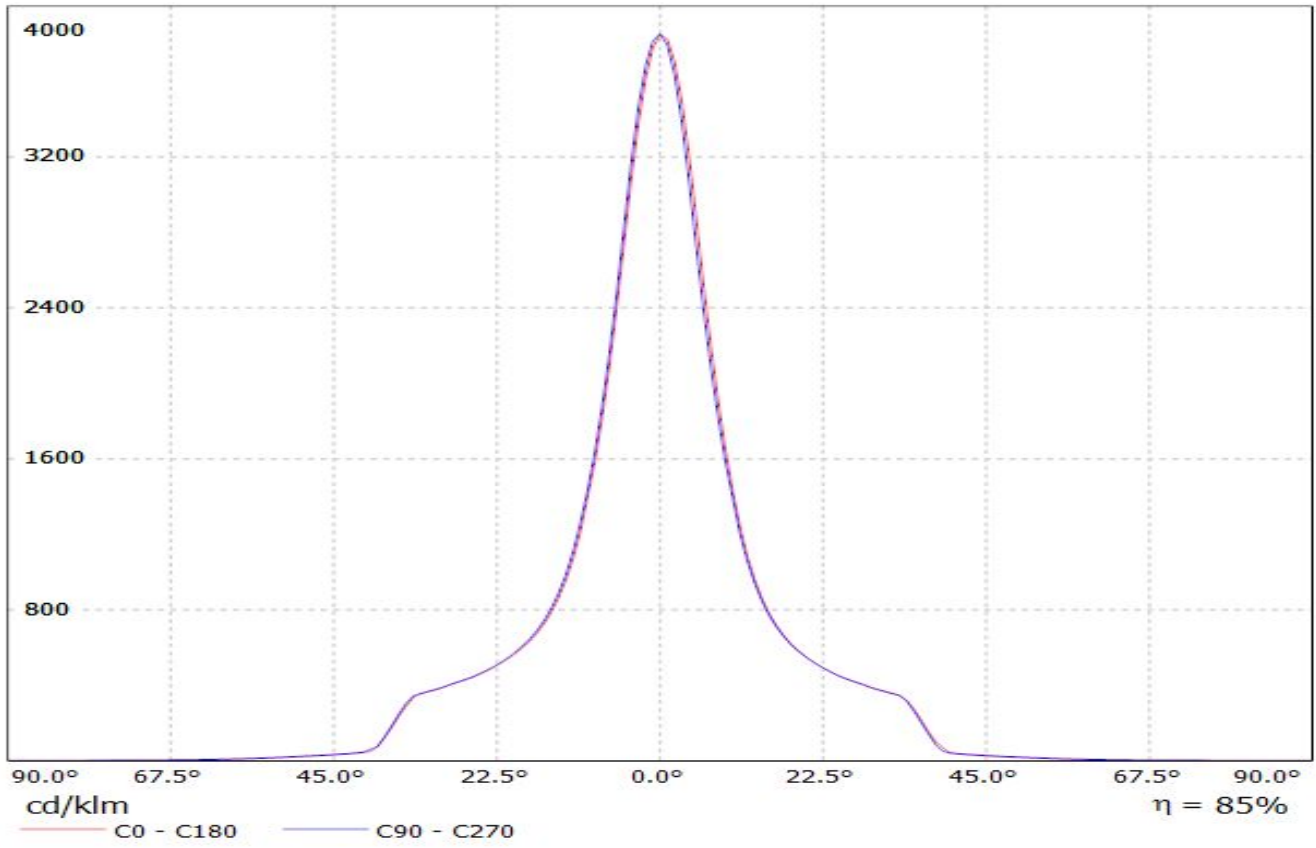
Luminaire: LEDil Oy F13380_ANGELA-M_(Soleriq_S13) Efficiency=86%
Lamps: 1 x Osram Soleriq S13 (GW KAGHB1.EM) 855lm @ 250mA CCT=3100K P=7.4W I=250mA



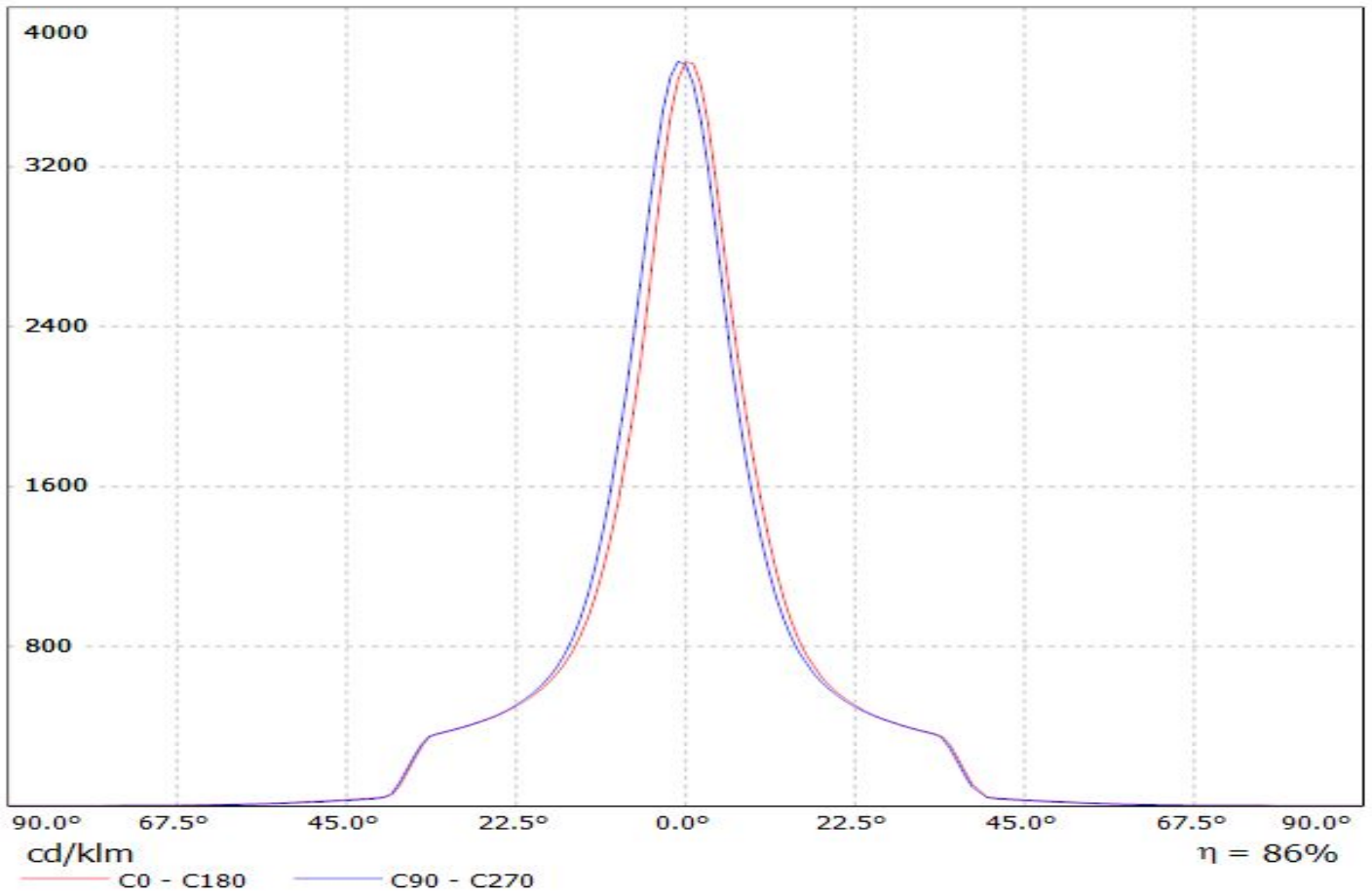
Luminaire: LEDiL Oy F13380_ANGELA-M_(COB_1208) Eff.85.4%
Lamps: 1 x Luxeon_COB_1208_1039.97lm@250mA_P=8.28793W_I=249.9mA



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

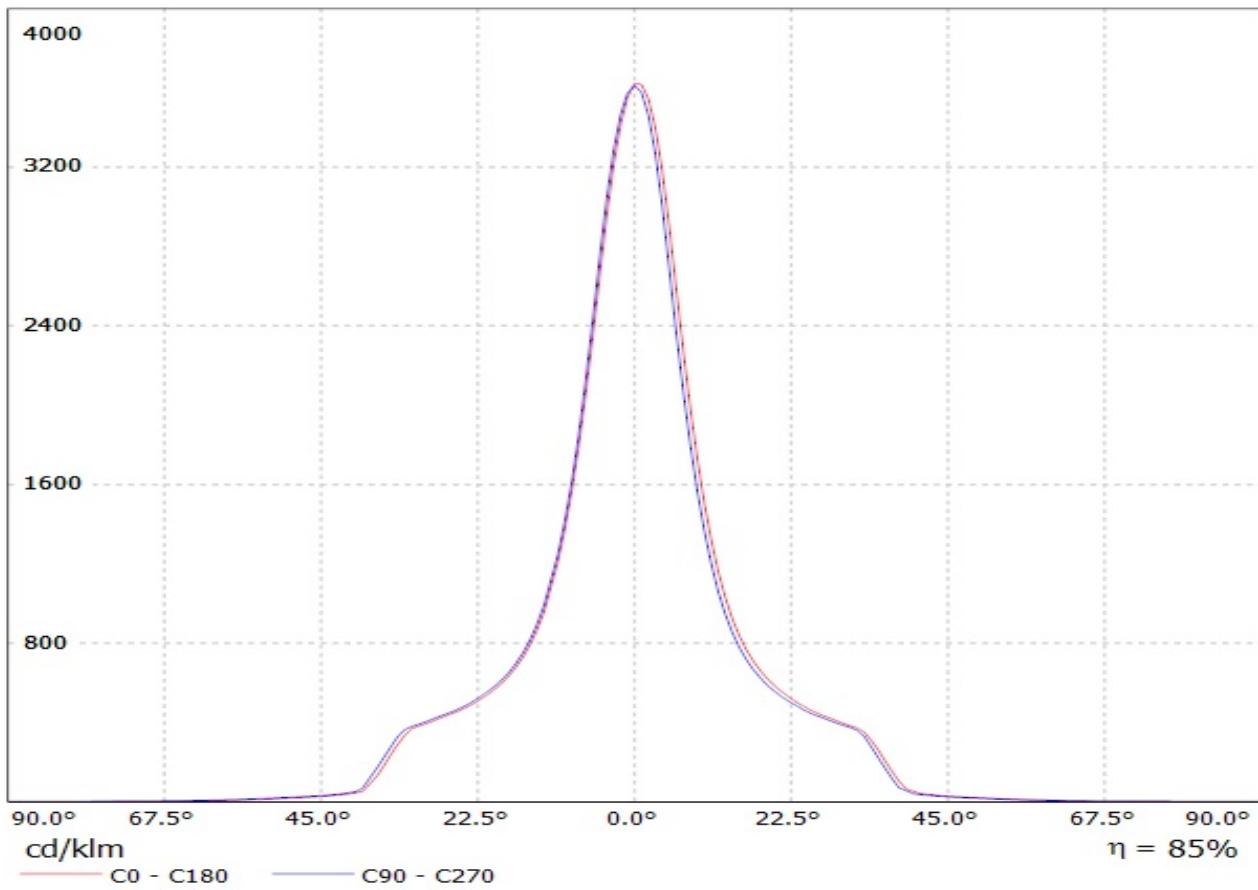


Luminaire: LEDiL Oy F13380_ANGELA-M_(NSBxL121A) Eff.86.4%
Lamps: 1 x Nichia_NSBxL121A_920.44lm@250mA_P=7.57797W_I=249.9mA



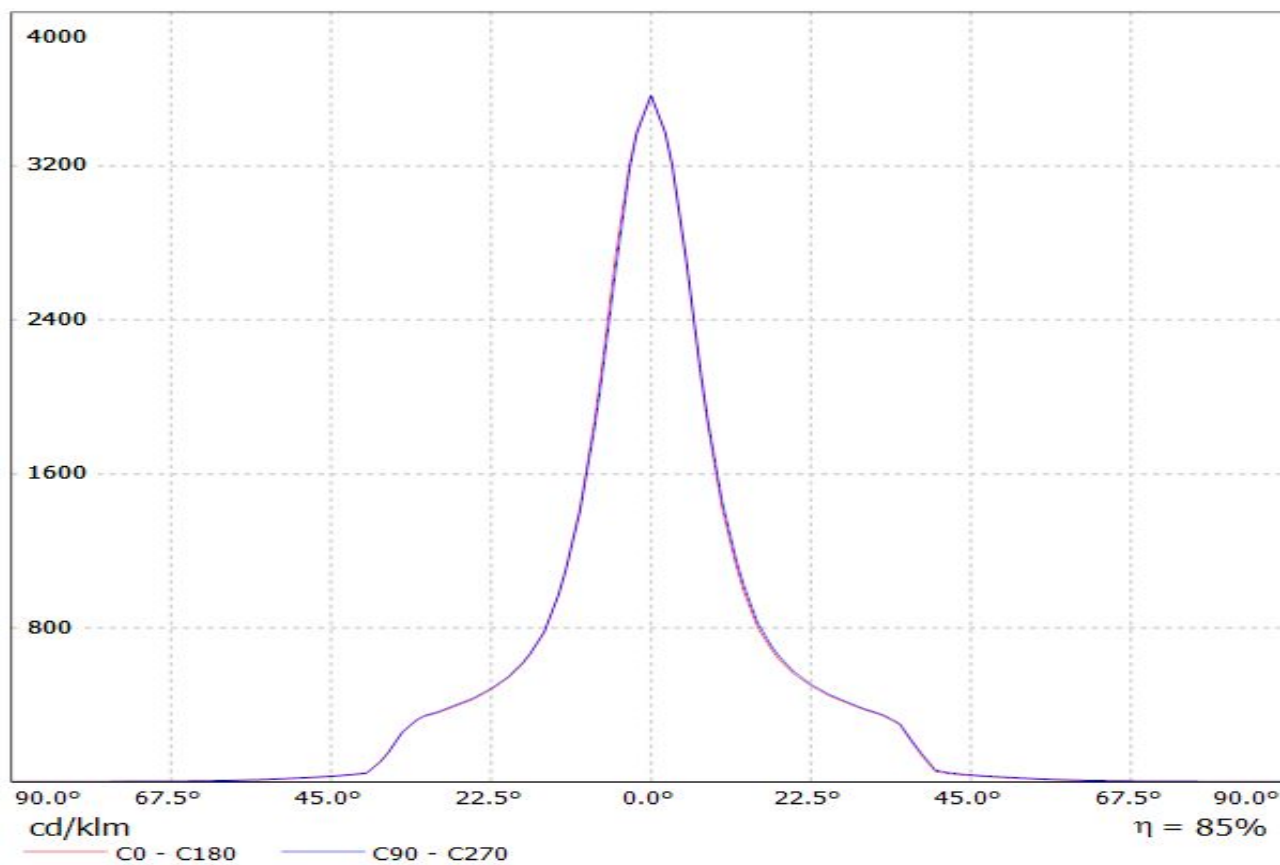
Luminaire: LEDiL Oy F13380_ANGELA-M_(PrevaLED_Z4) Eff:85%

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

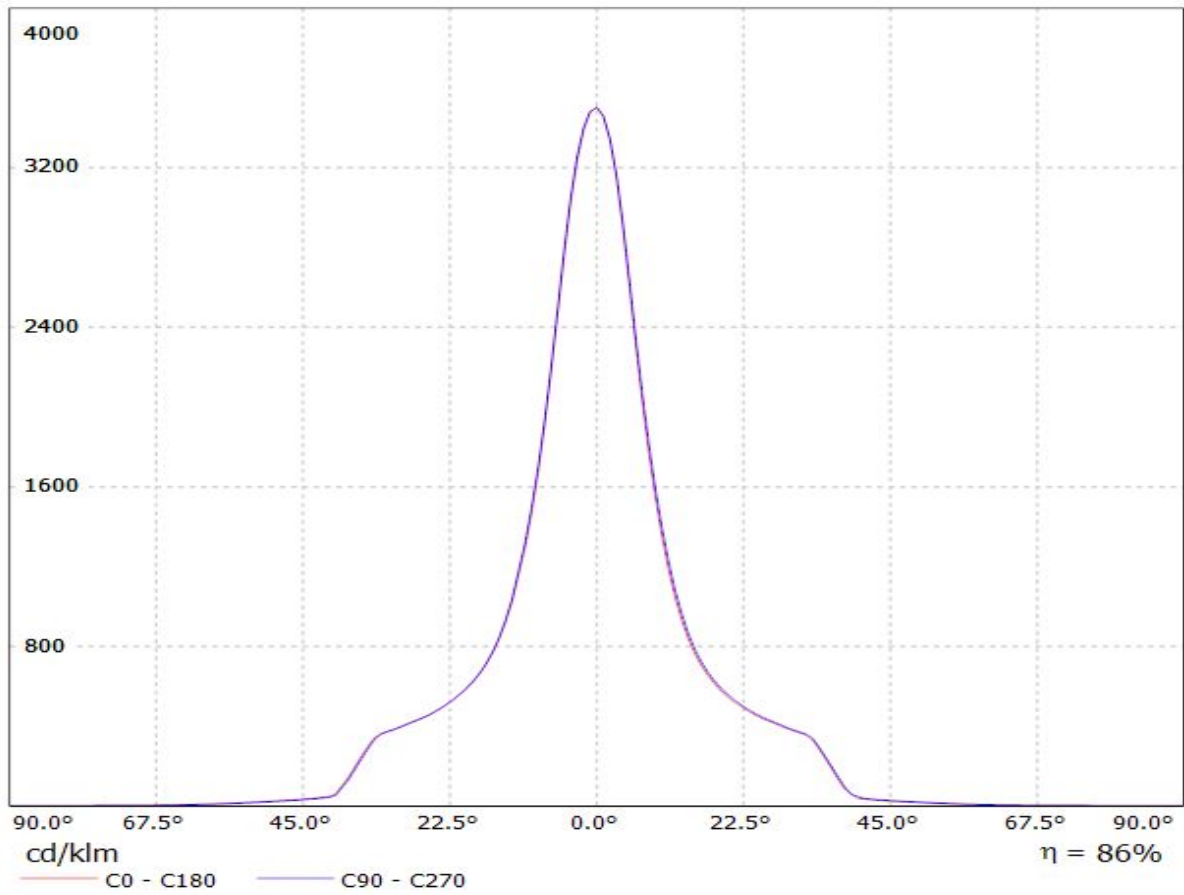


Luminaire: LEDiL Oy F13380_ANGELA-M_(WU-M-484)

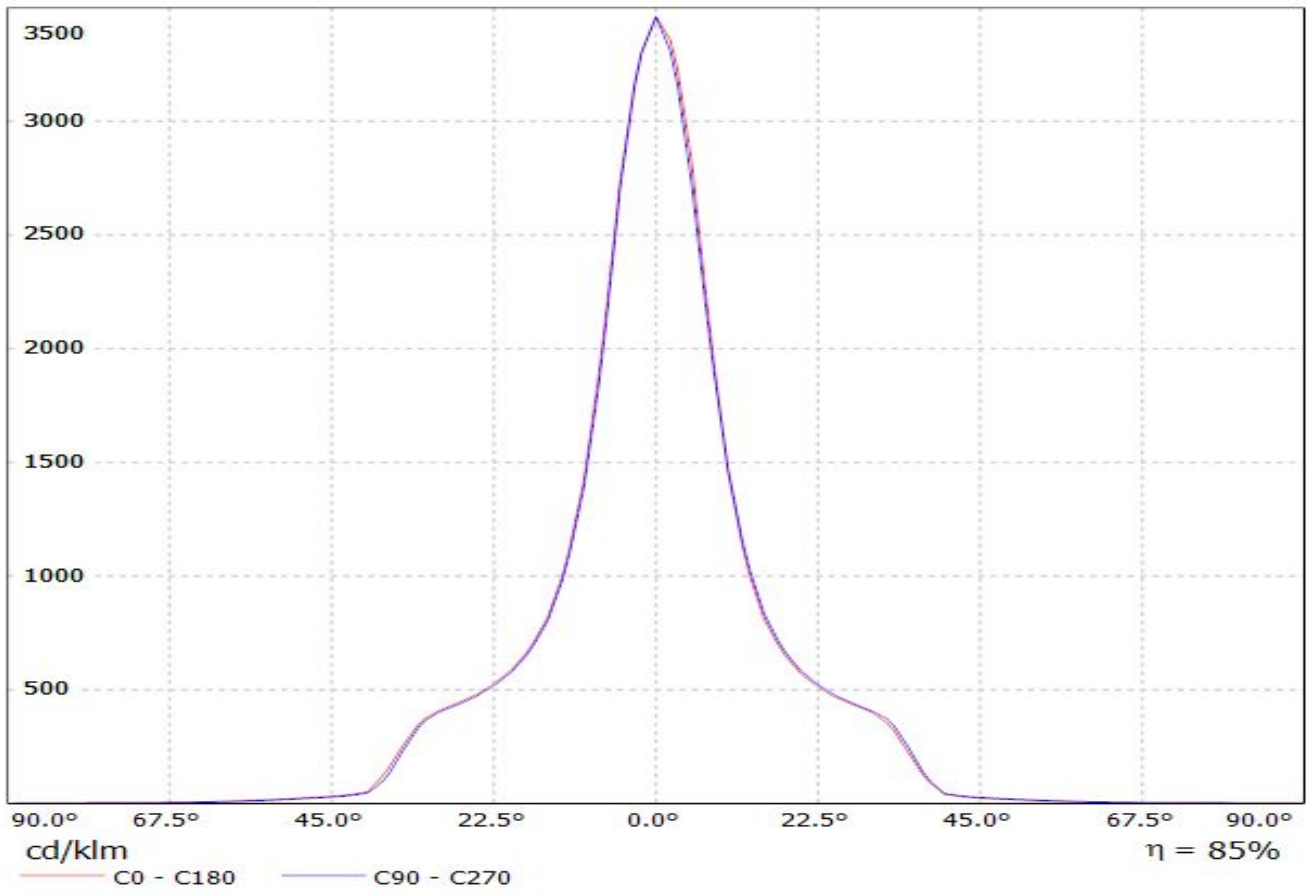
Lamps: 1 x Vossloh_Schwabe-WU-M-484_(WU-M-484-830)_657.721lm@250mA_P=5.59451W_I=249.9mA



Luminaire: LEDiL Oy F13380_ANGELA-M_(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

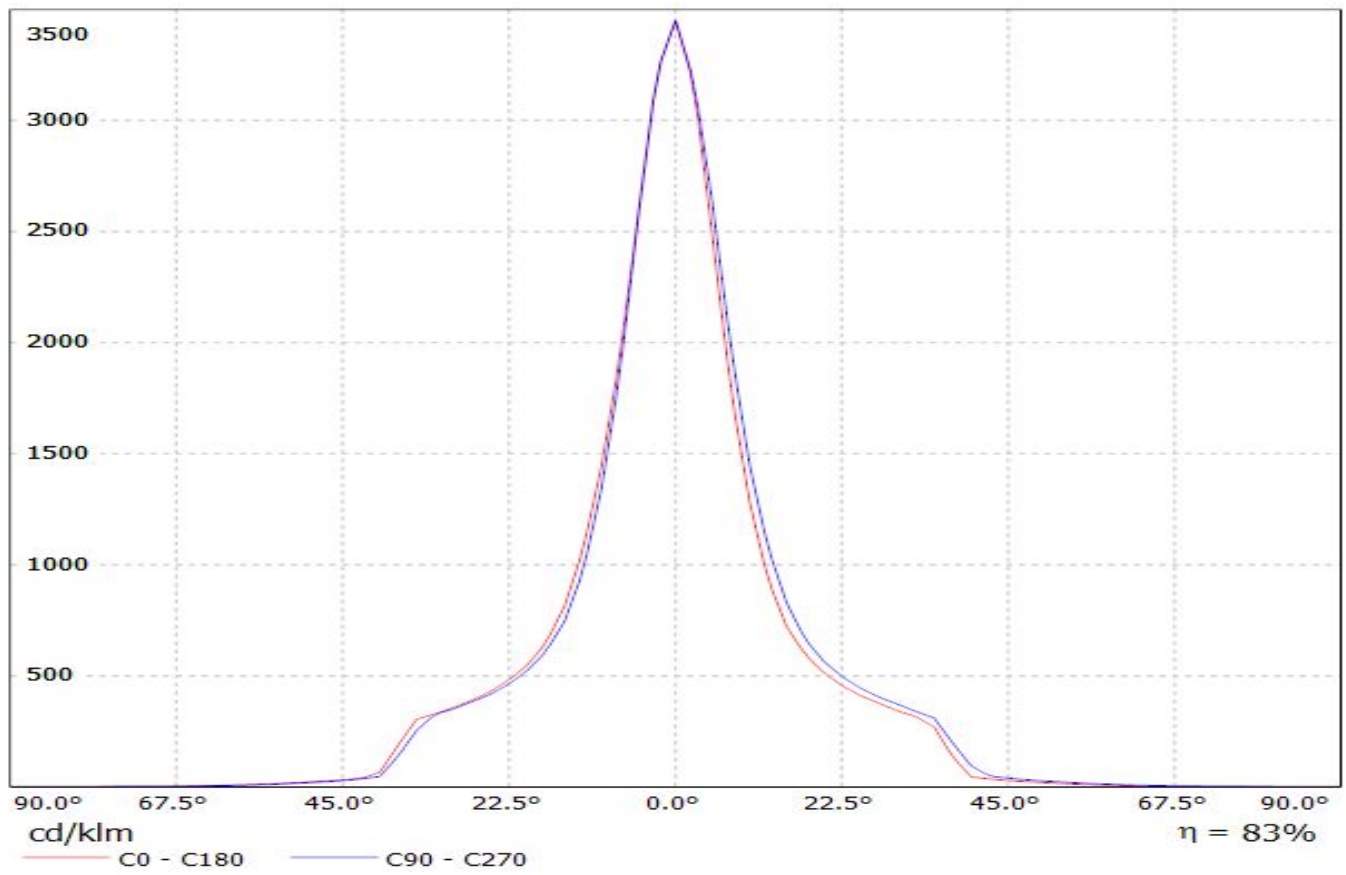


Luminaire: LEDiL Oy F13380_ANGELA-M (LEP-2000-827-C-AC)
Lamps: 1 x OSRAM PrevaLED Core AC (LEP-2000-827-C-AC)



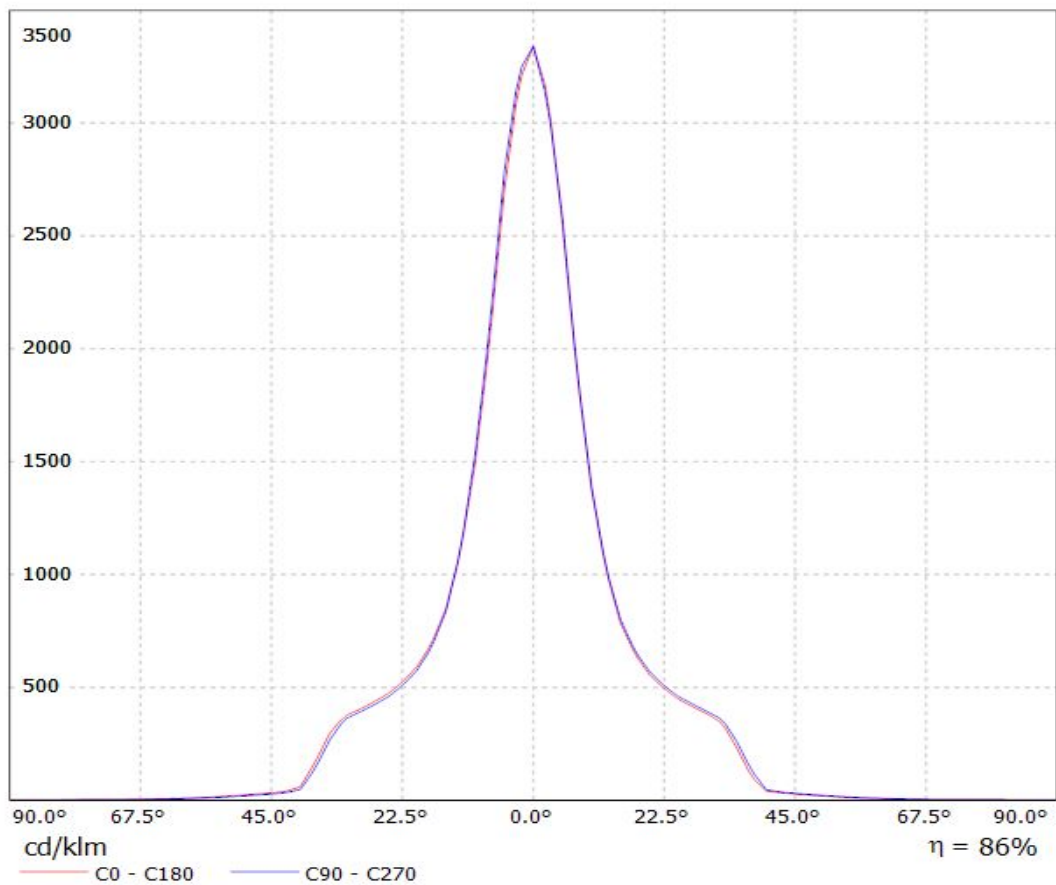
Luminaire: LEDiL Oy F13380_ANGELA-M (WU-M-461-827)

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

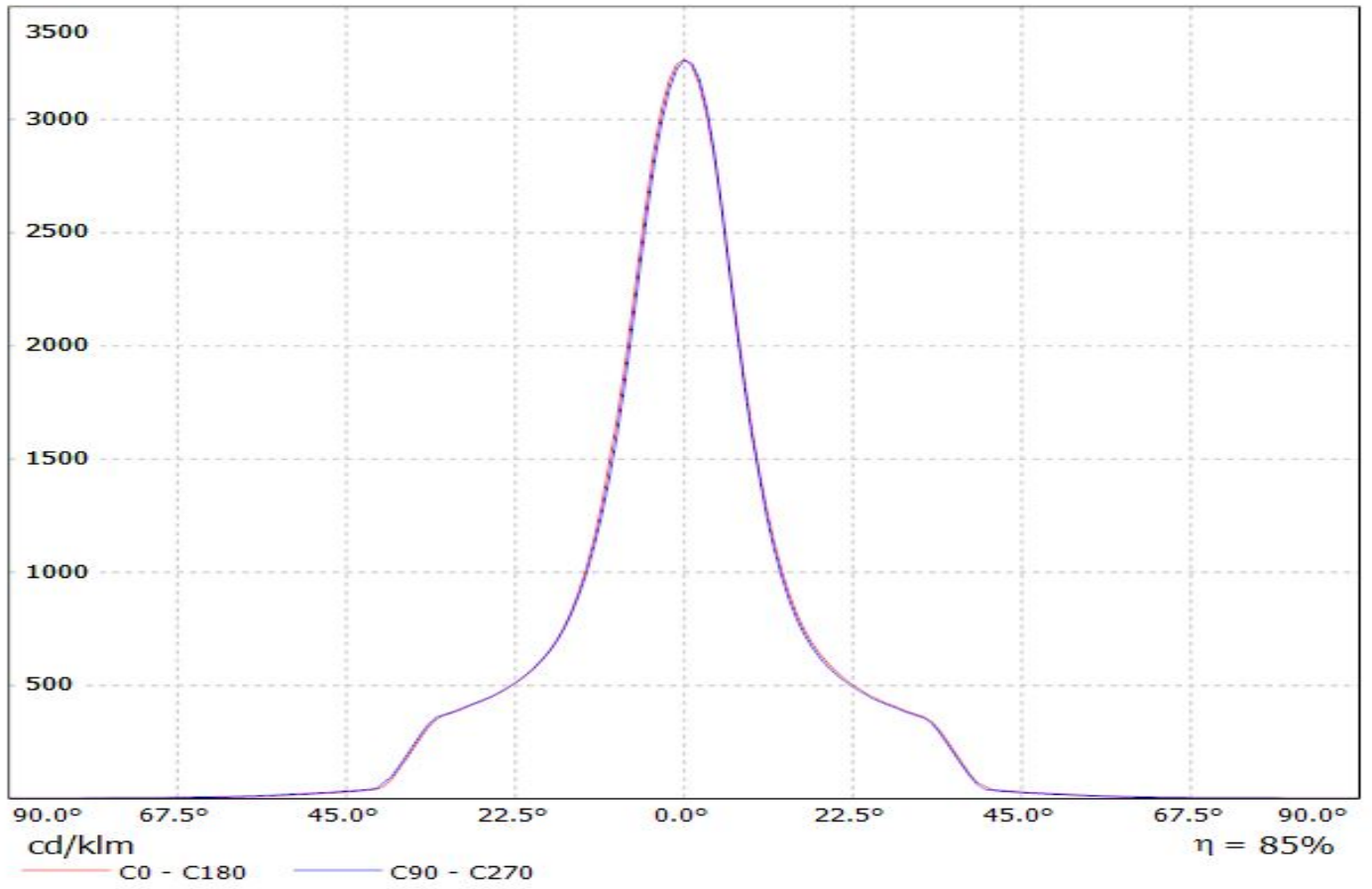


Luminaire: LEDiL Oy F13380_ANGELA-M_(STARK_LES19)

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

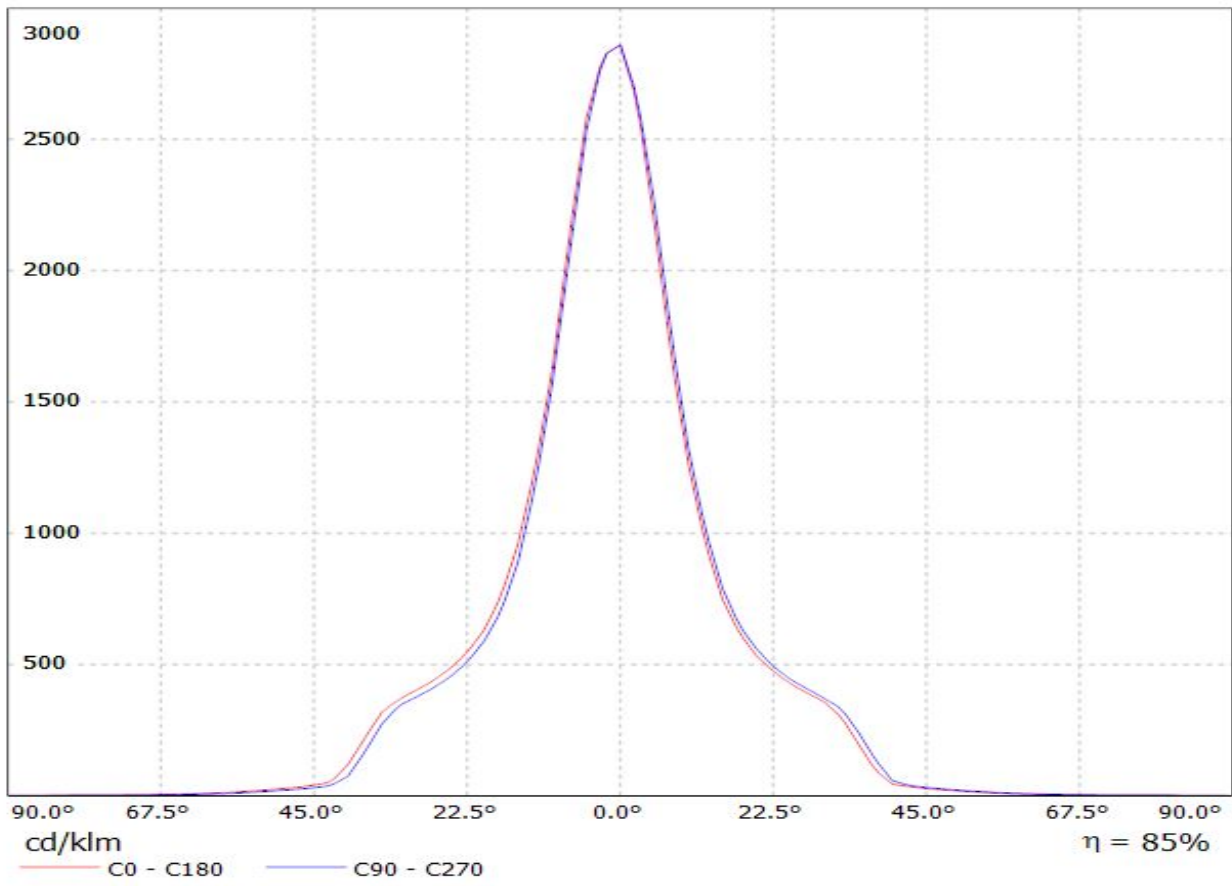


Luminaire: LEDiL Oy F13380_ANGELA-M_(COB-LC026B) Eff.85.2%
Lamps: 1 x SAMSUNG_COB-LC026B_(SPHWWTHDNC25YHV52F)
_1122.94lm@250mA_P=8.2479W_I=249.8mA

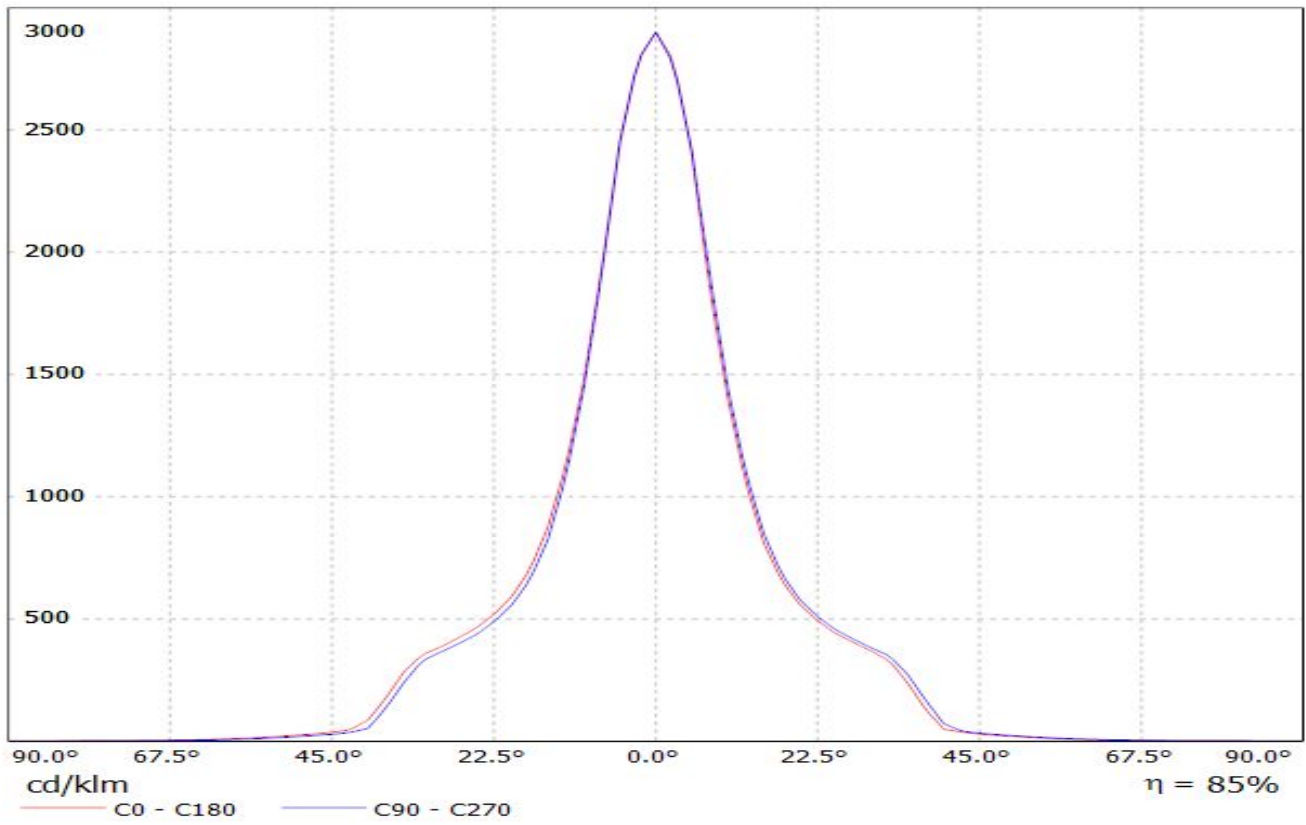


Luminaire: LEDiL Oy F13380_ANGELA-M_(WU-M-485)

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

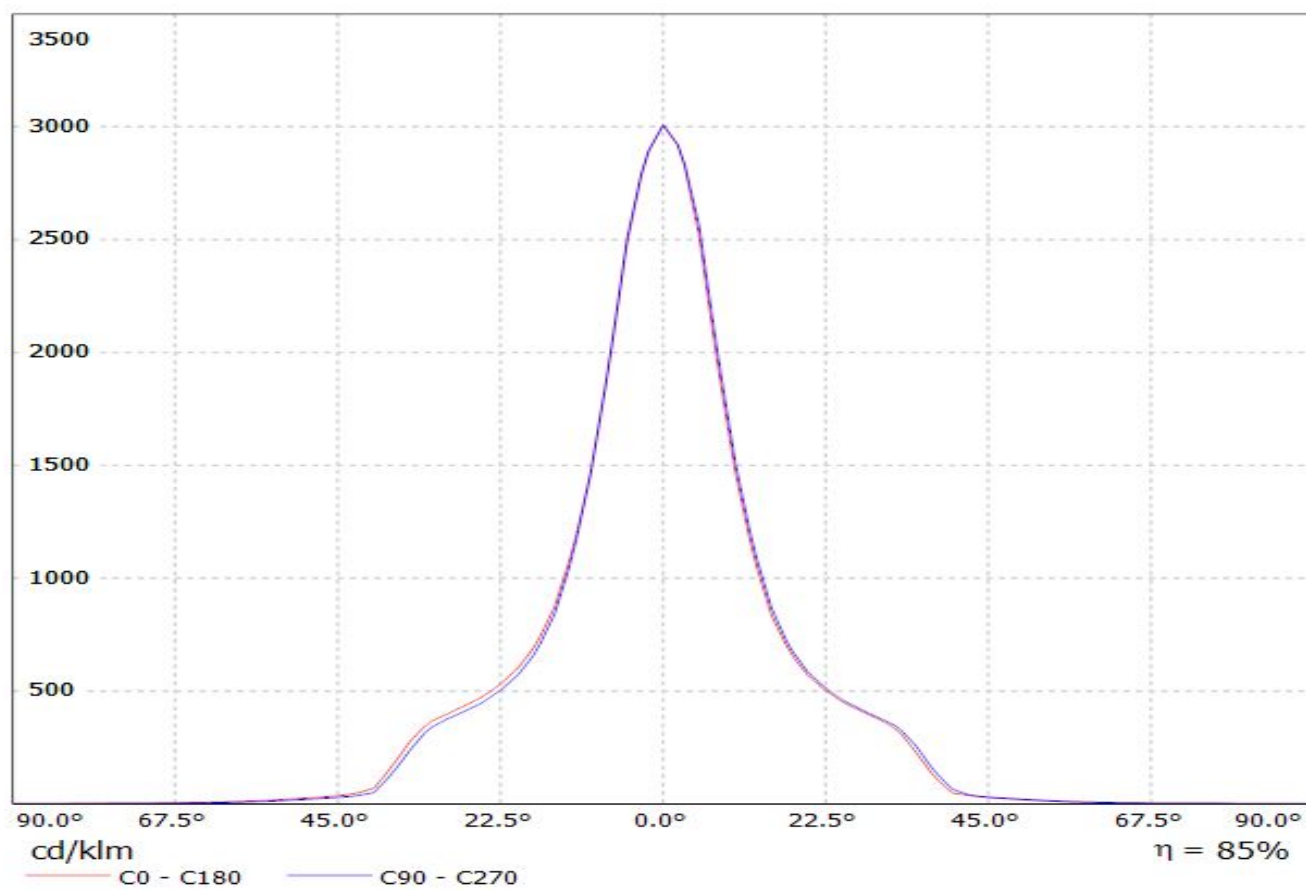


Luminaire: LEDiL Oy F13380_ANGELA-M_(WU-M-486) Eff 84.4%
Lamps: 1 x Vossloh_Schwabe-WU-M-486_(WU-M-486-830)_1474.55lm@250mA_P=10.4456W_I=249.8mA



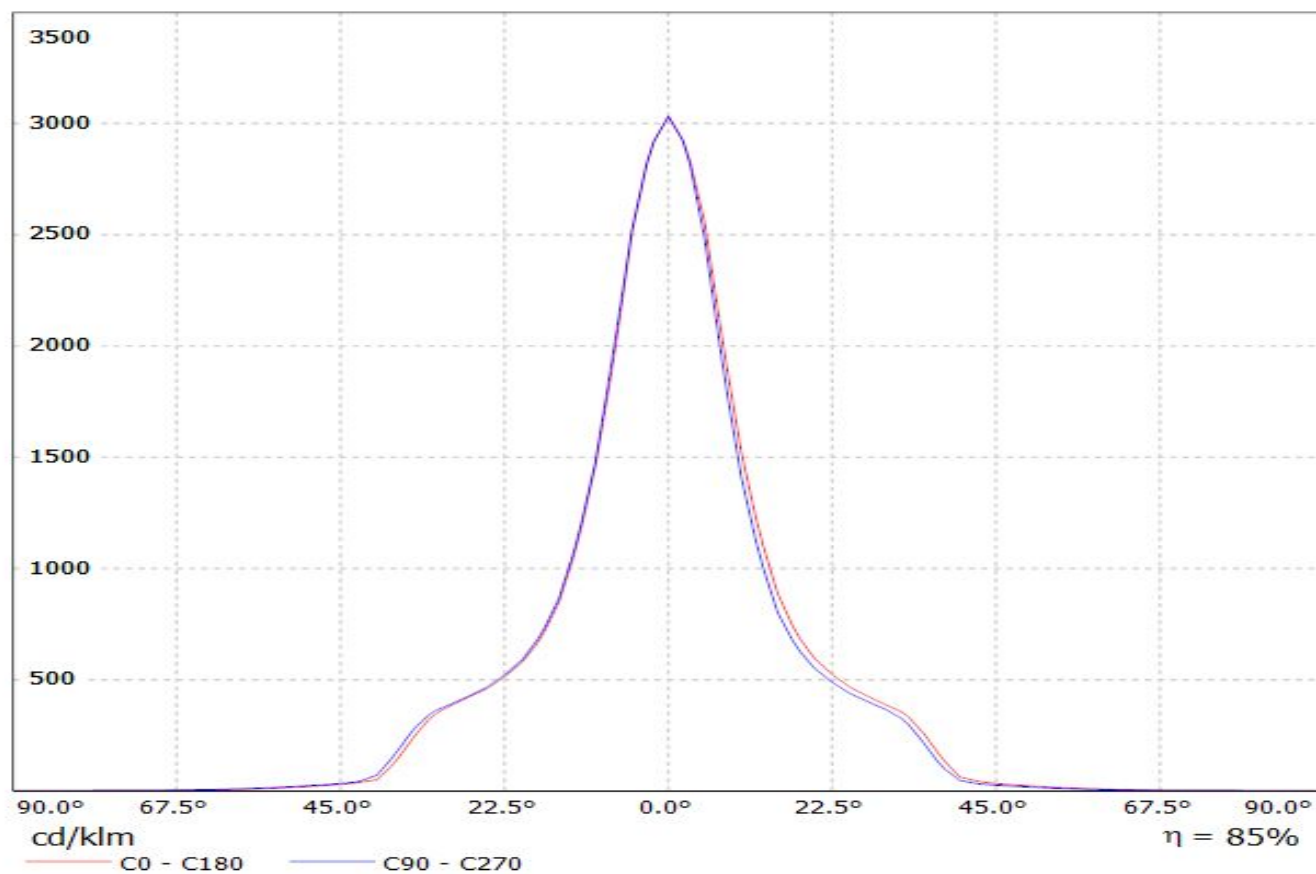
Luminaire: LEDiL Oy F13380_ANGELA-M_(WU-M-462-827)

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

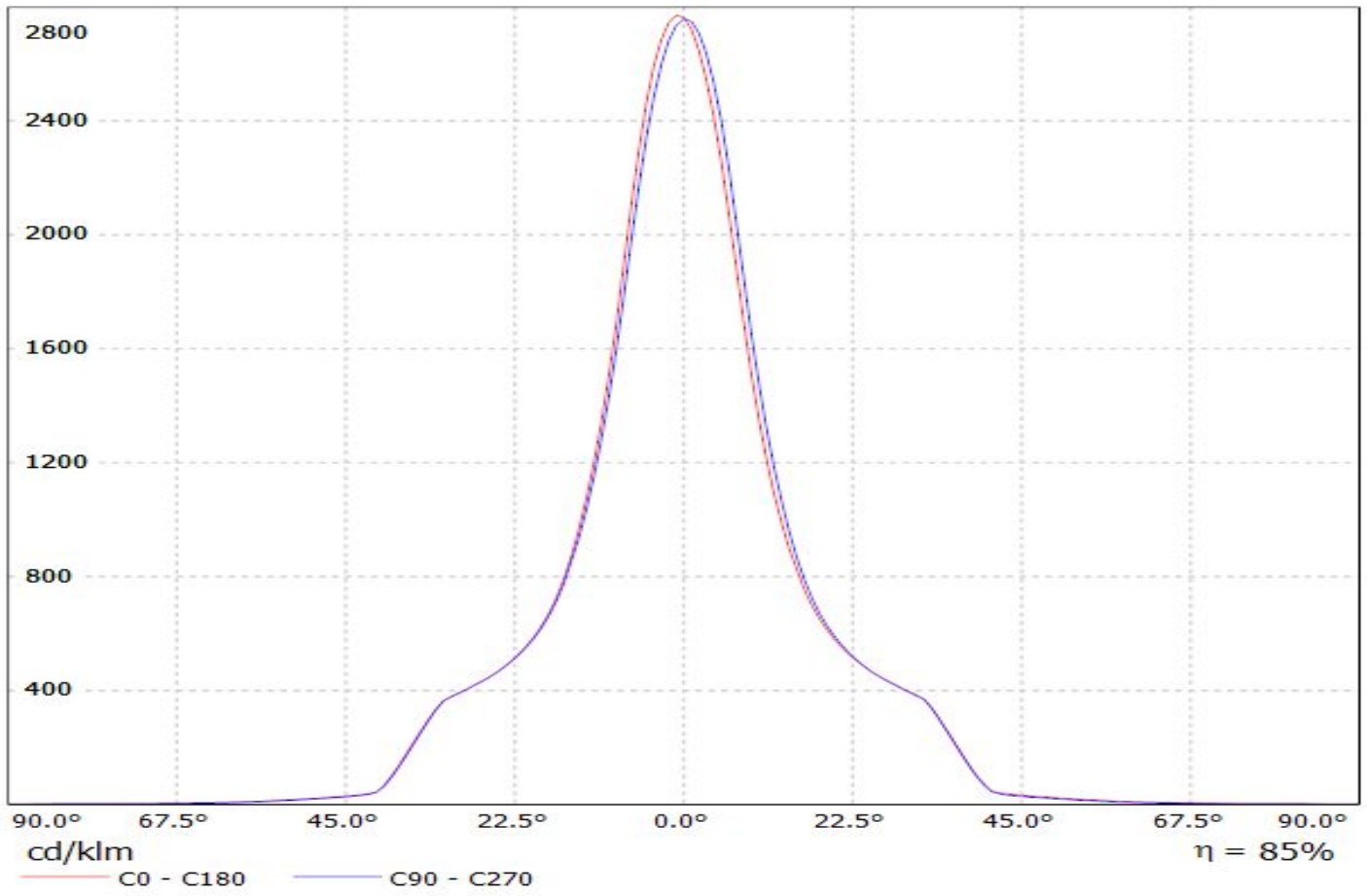


Luminaire: LEDiL Oy F13380_ANGELA-M_(WU-M-464-827)

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

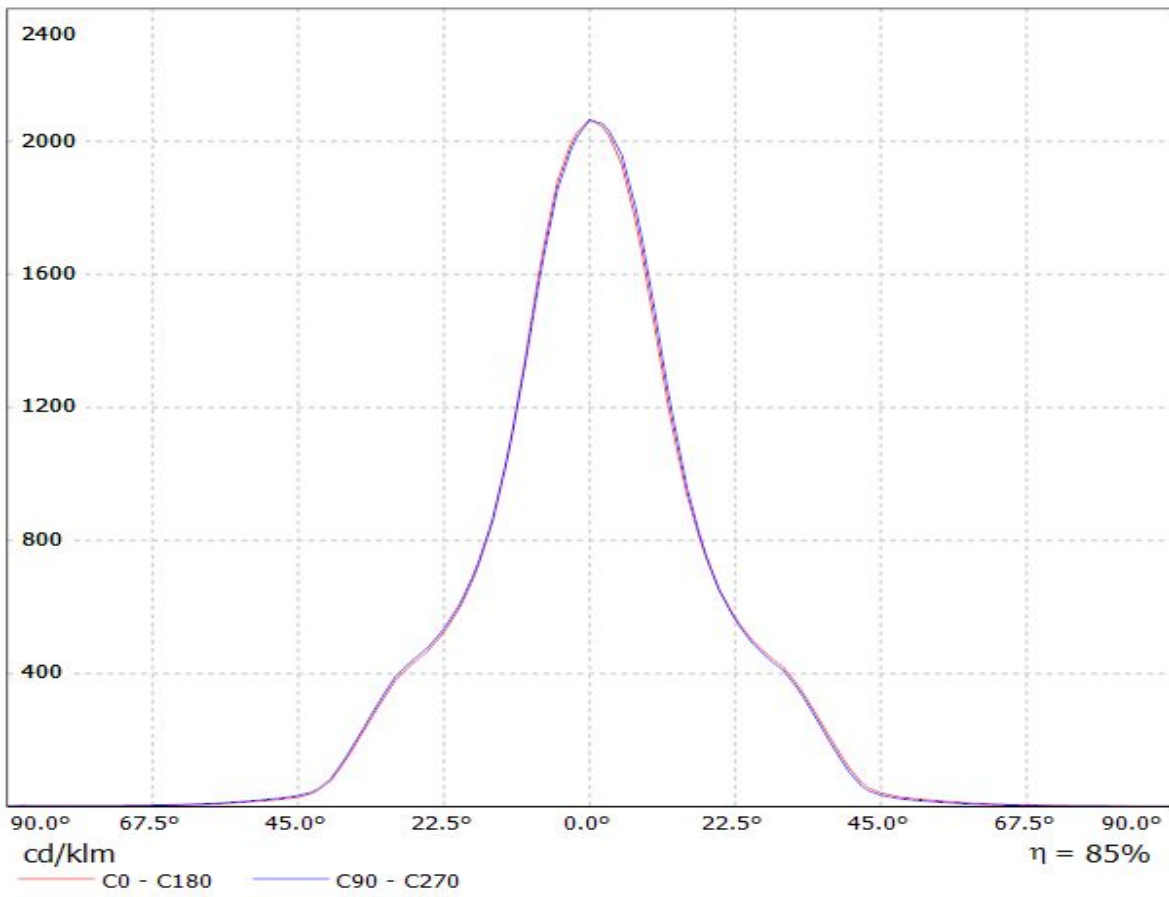


Luminaire: LEDiL Oy F13380_ANGELA-M_(STARK_LES23) Eff. 85.3%
Lamps: 1 x Tridonic_STARK_SLE_G3_LES23_795.318lm@250mA_P=8.22646W_I=249.9mA



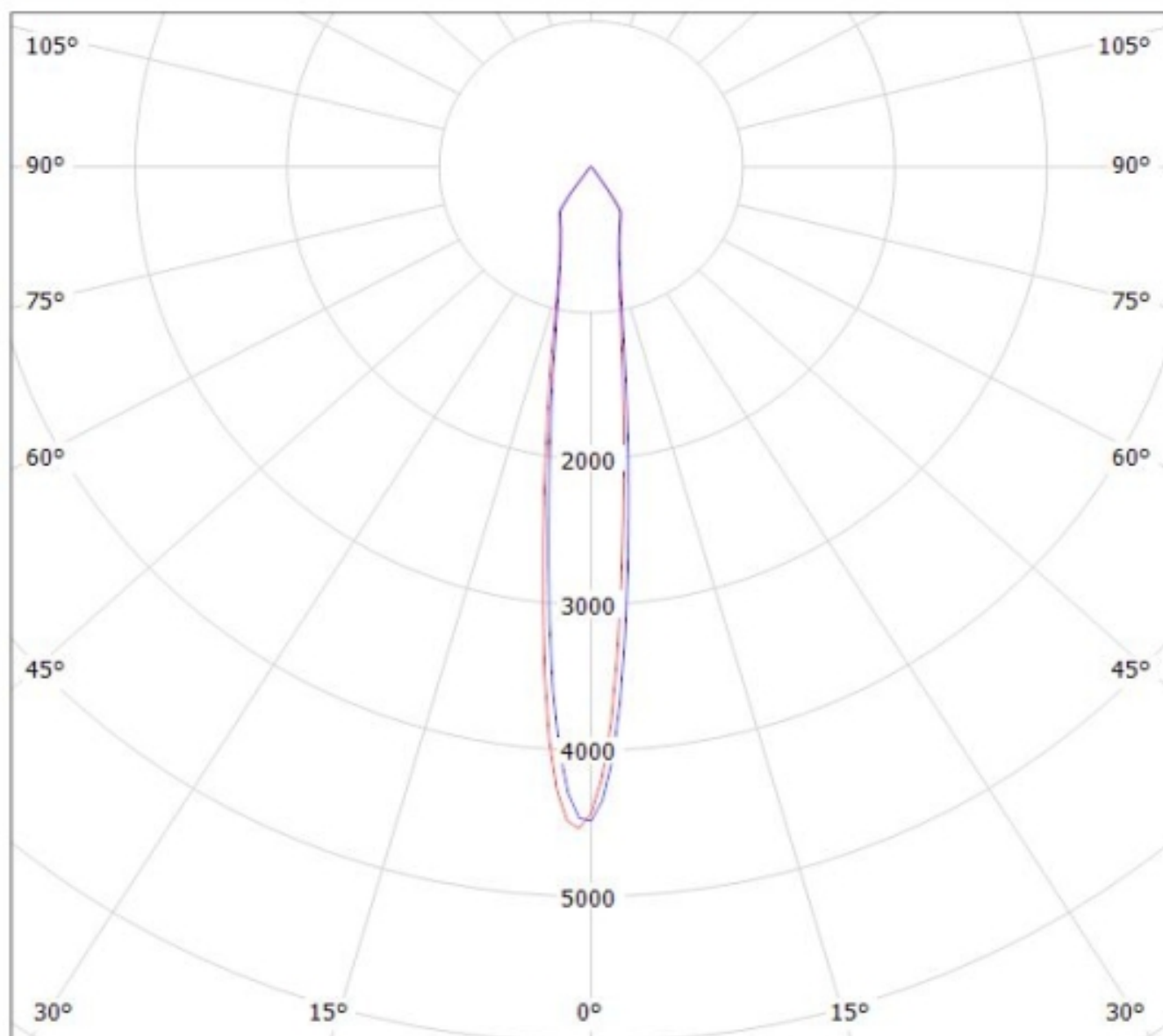
Luminaire: LEDiL Oy F13380_ANGELA-M_(CXA3590)

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_(LEP-800-827-C-AC)

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



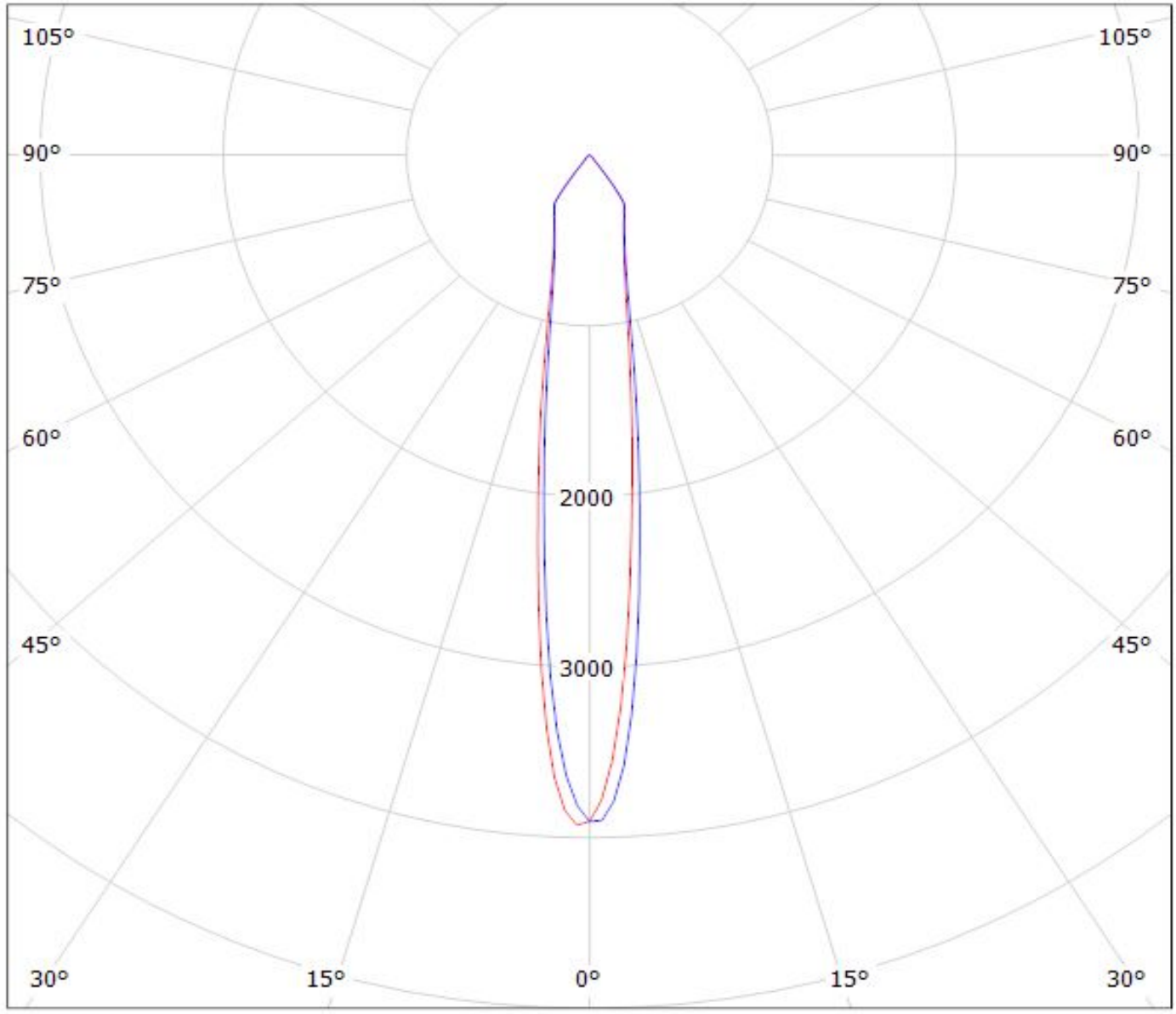
cd/klm

$\eta = 86\%$

— C0 - C180

— C90 - C270

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



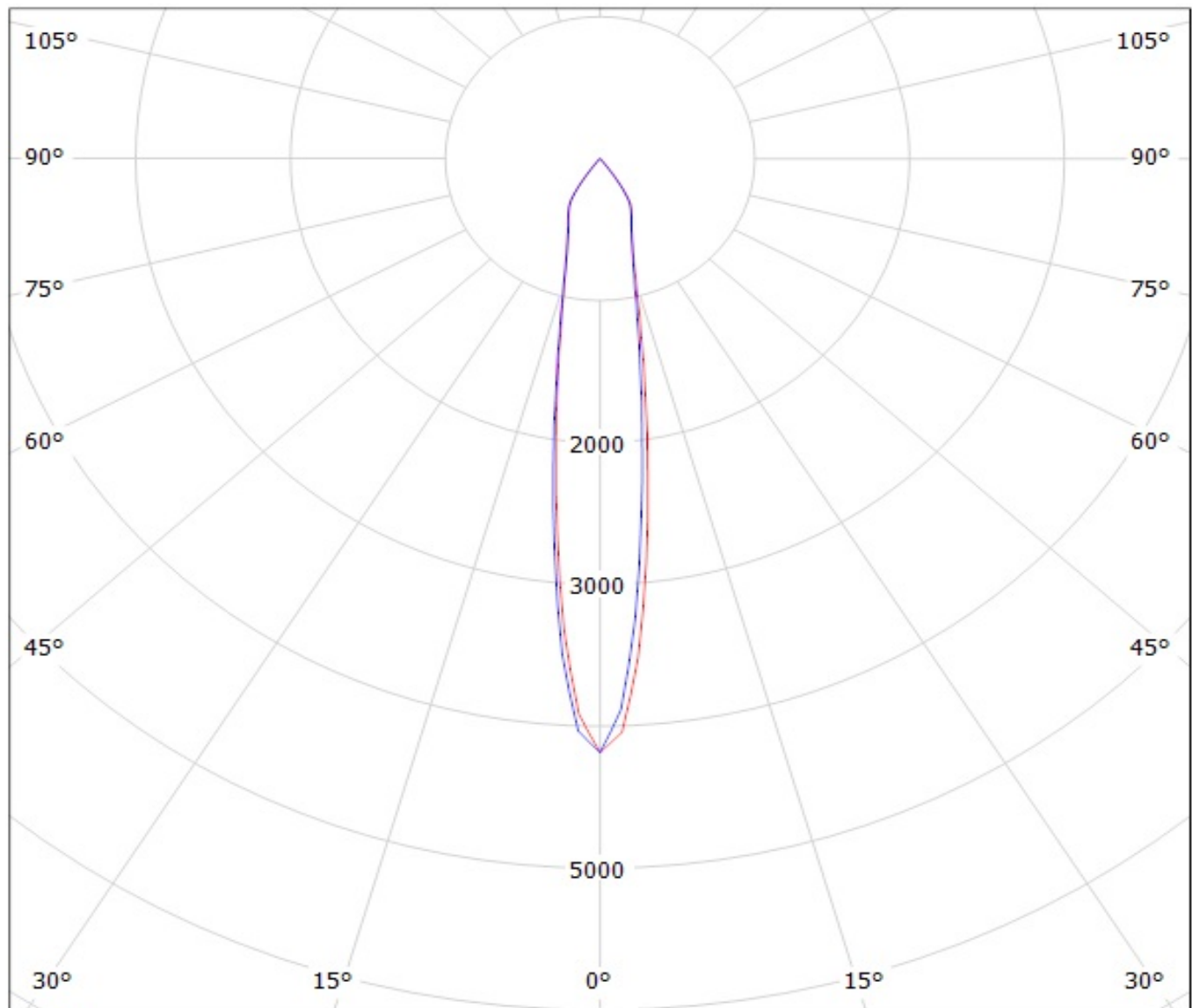
cd/klm

— C0 - C180 — C90 - C270

$\eta = 85\%$

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

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

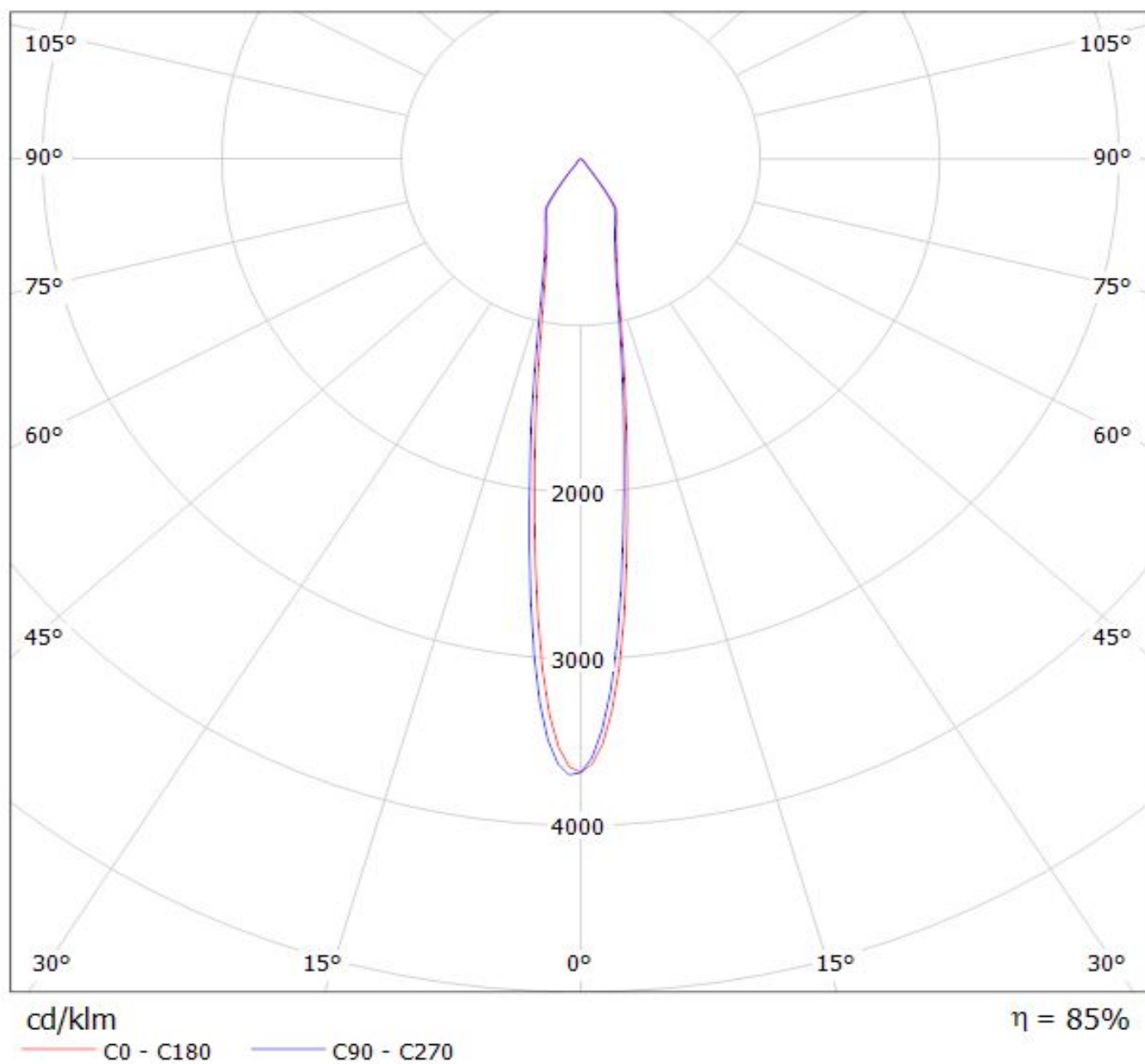


cd/klm

— C0 - C180

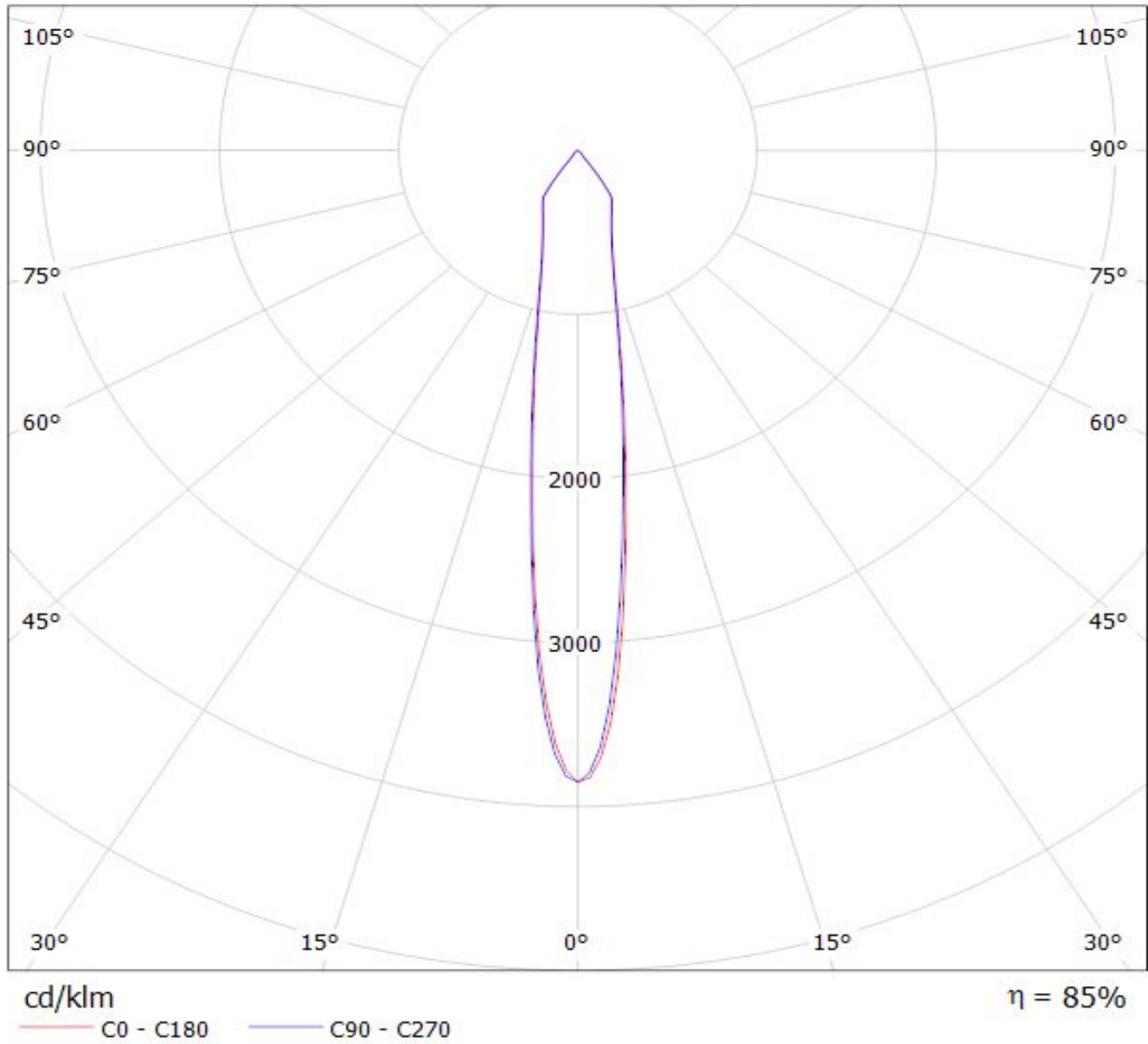
— C90 - C270

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

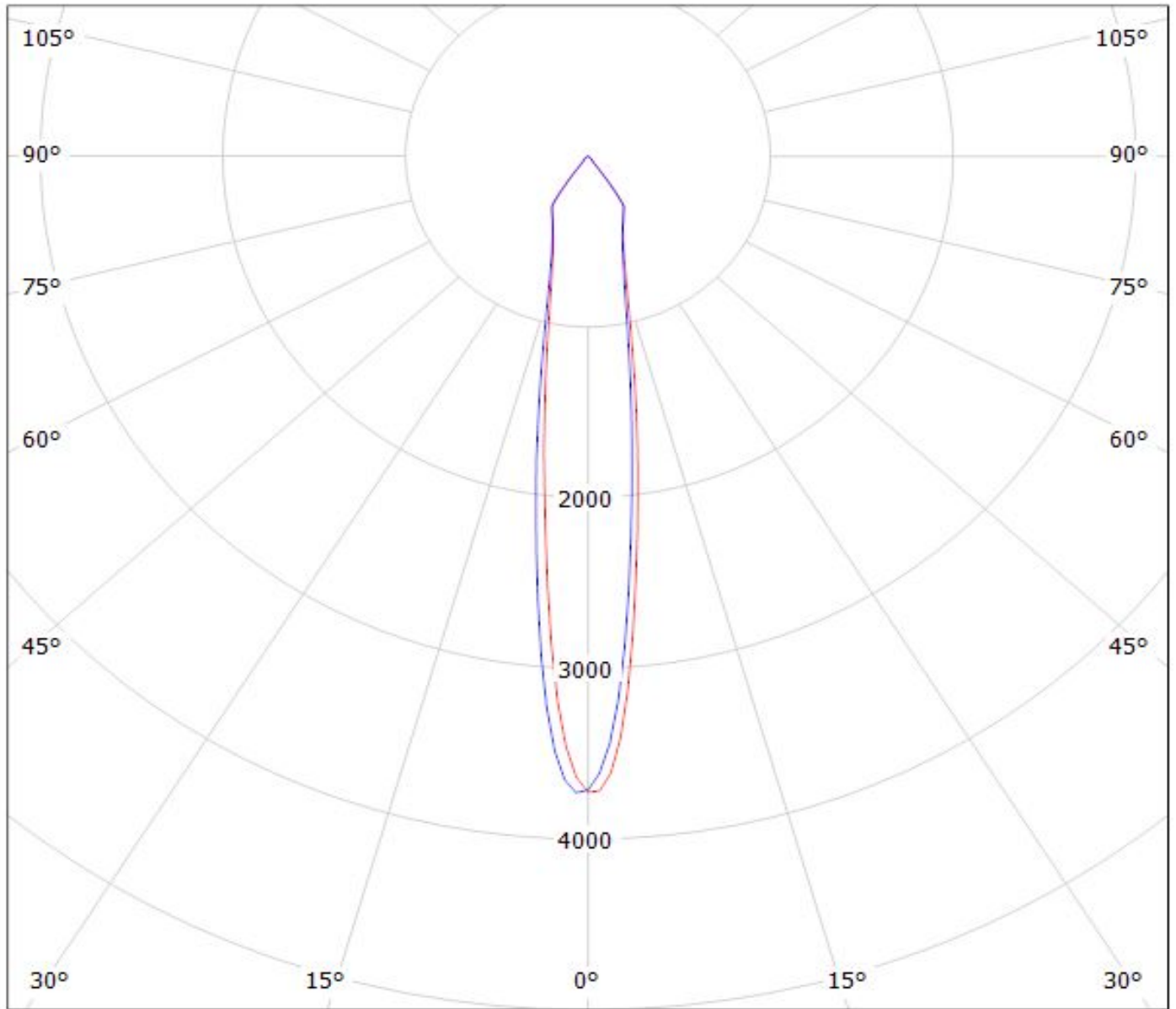


Luminaire: LEDiL Oy F13380_ANGELA-M_(CXM-14)

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



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



cd/klm

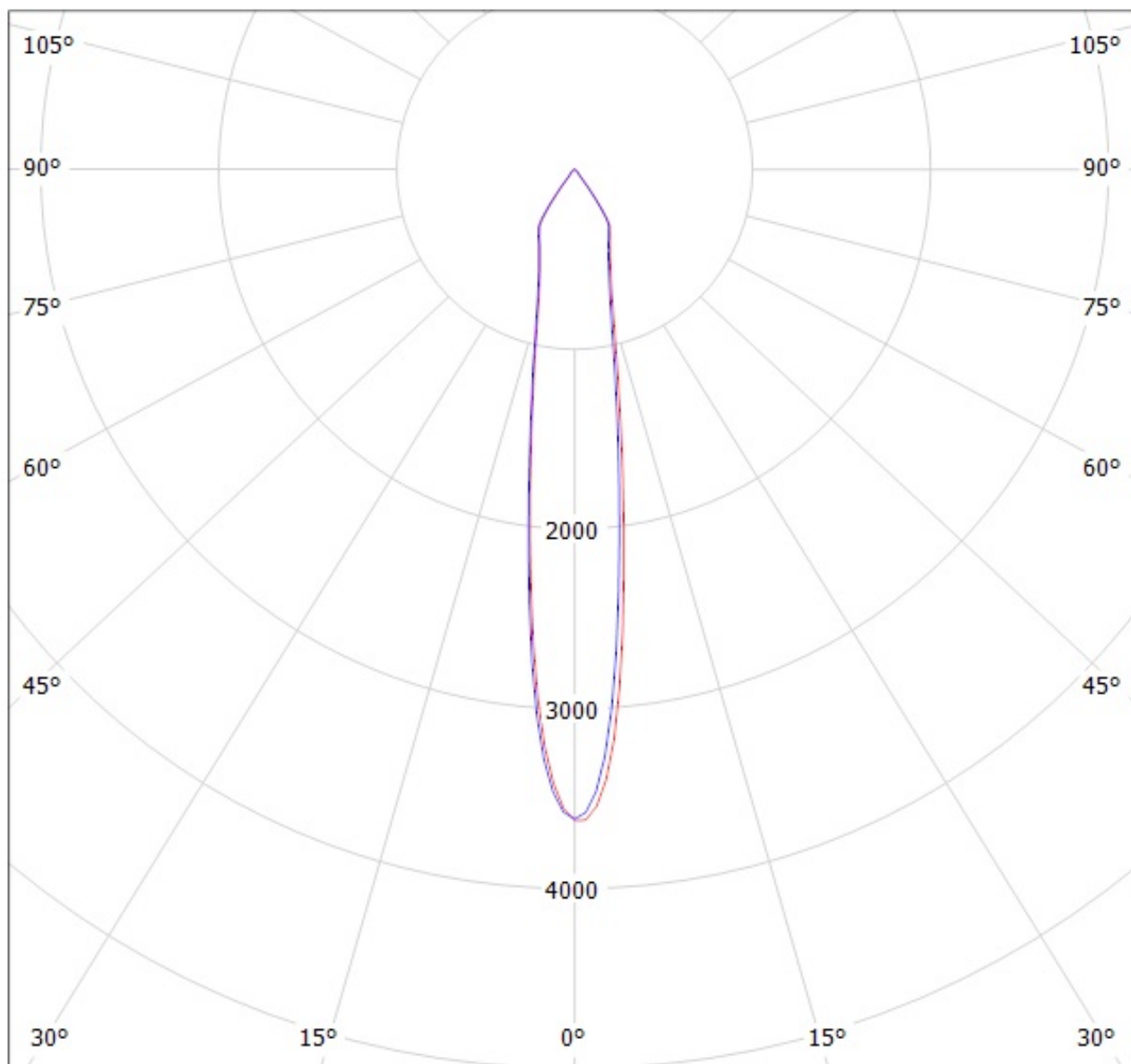
$\eta = 86\%$

— C0 - C180

— C90 - C270

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



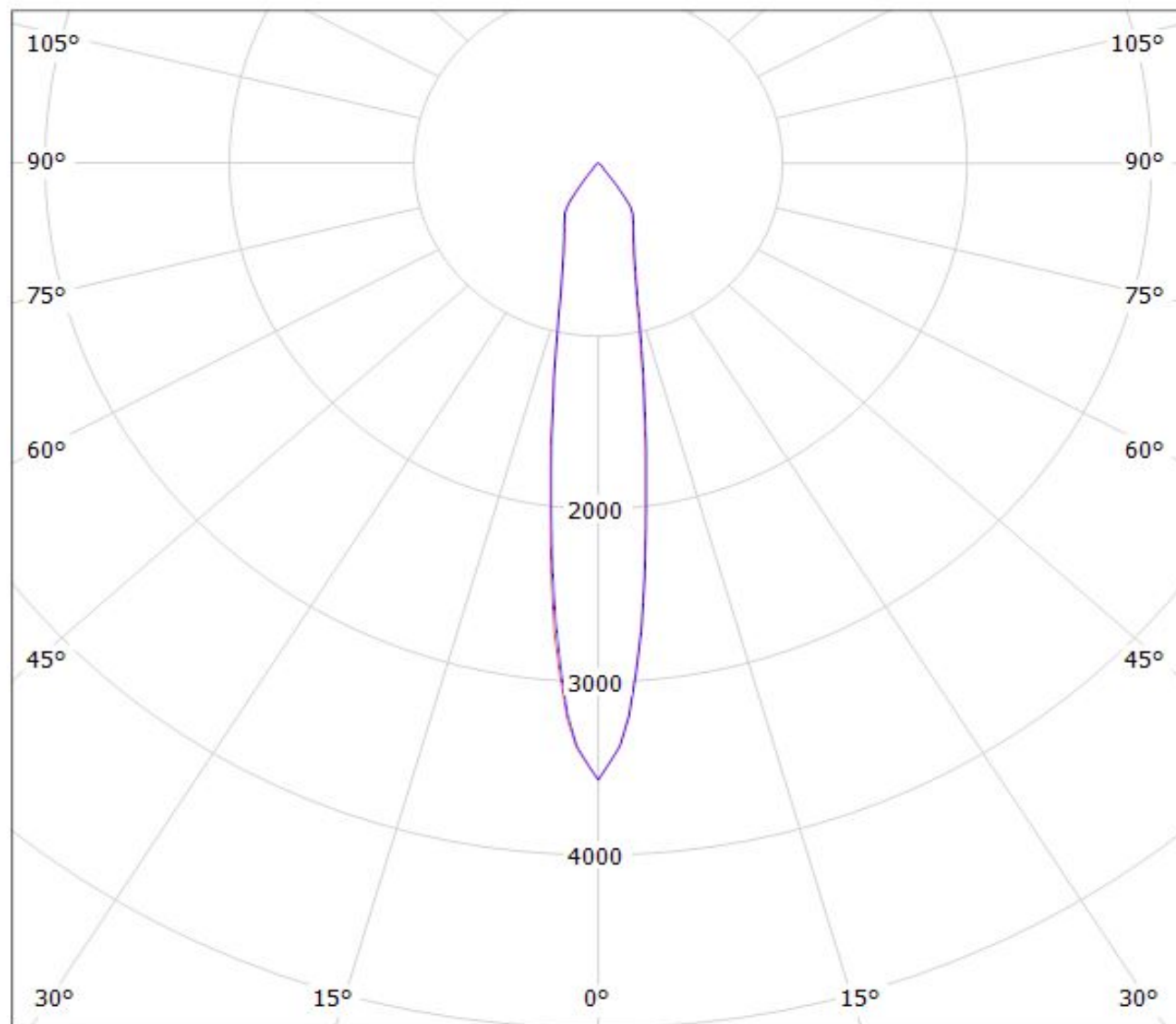
cd/klm

$\eta = 85\%$

— C0 - C180 — C90 - C270

Luminaire: LEDiL Oy F13380_ANGELA-M_(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

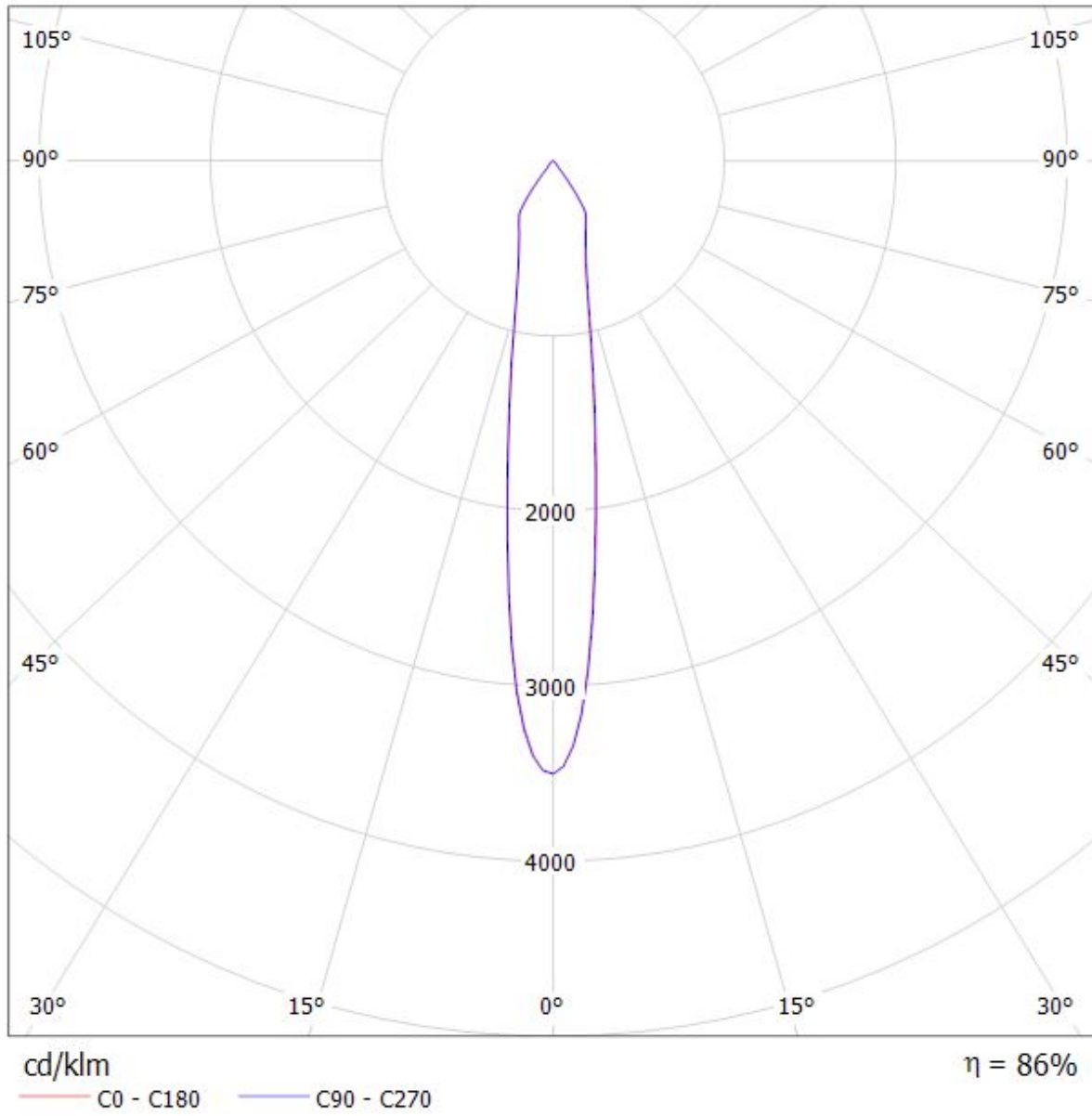
— C0 - C180

— C90 - C270

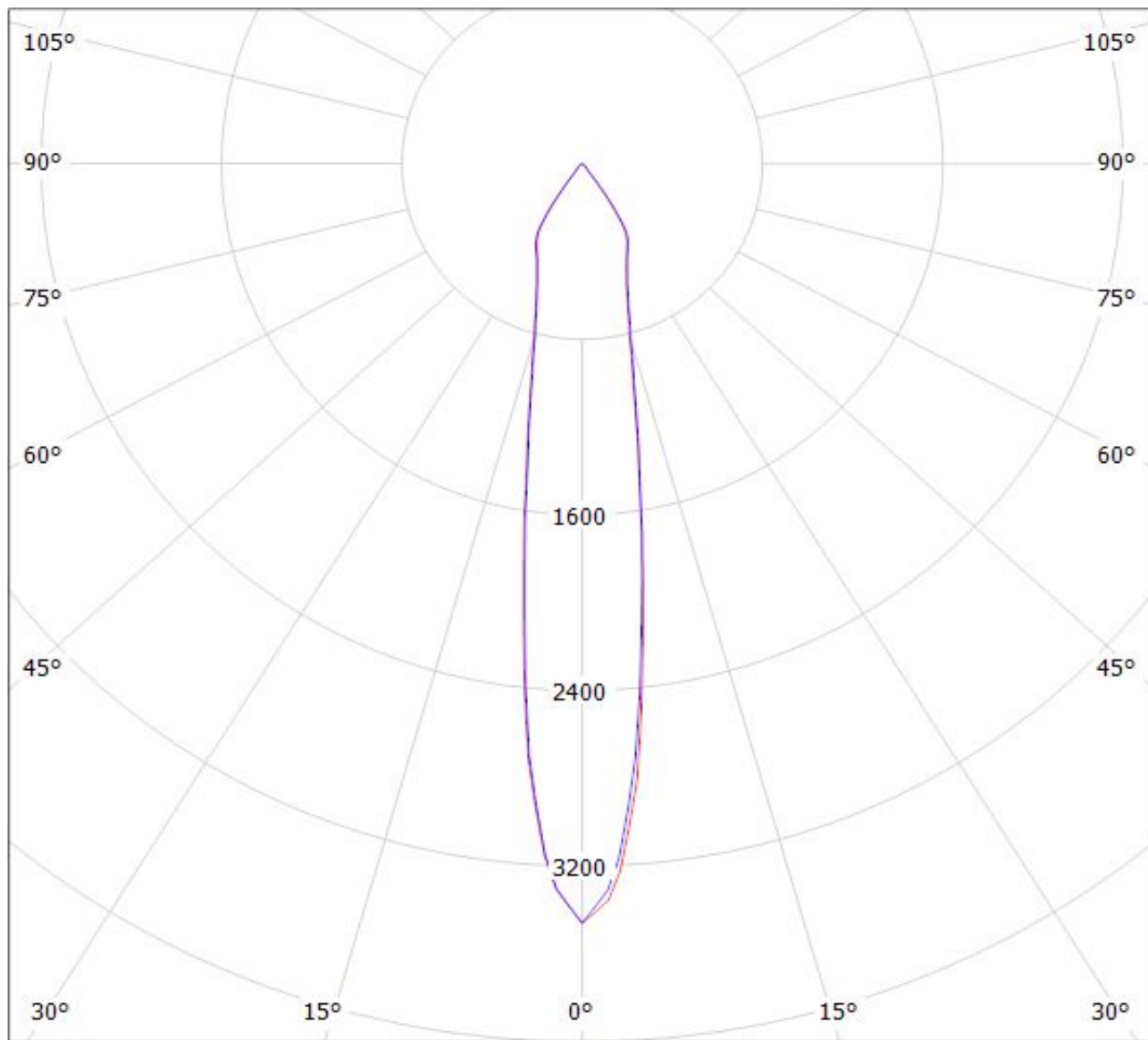
$\eta = 85\%$

Luminaire: LEDiL Oy F13380_ANGELA-M_(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)



cd/klm

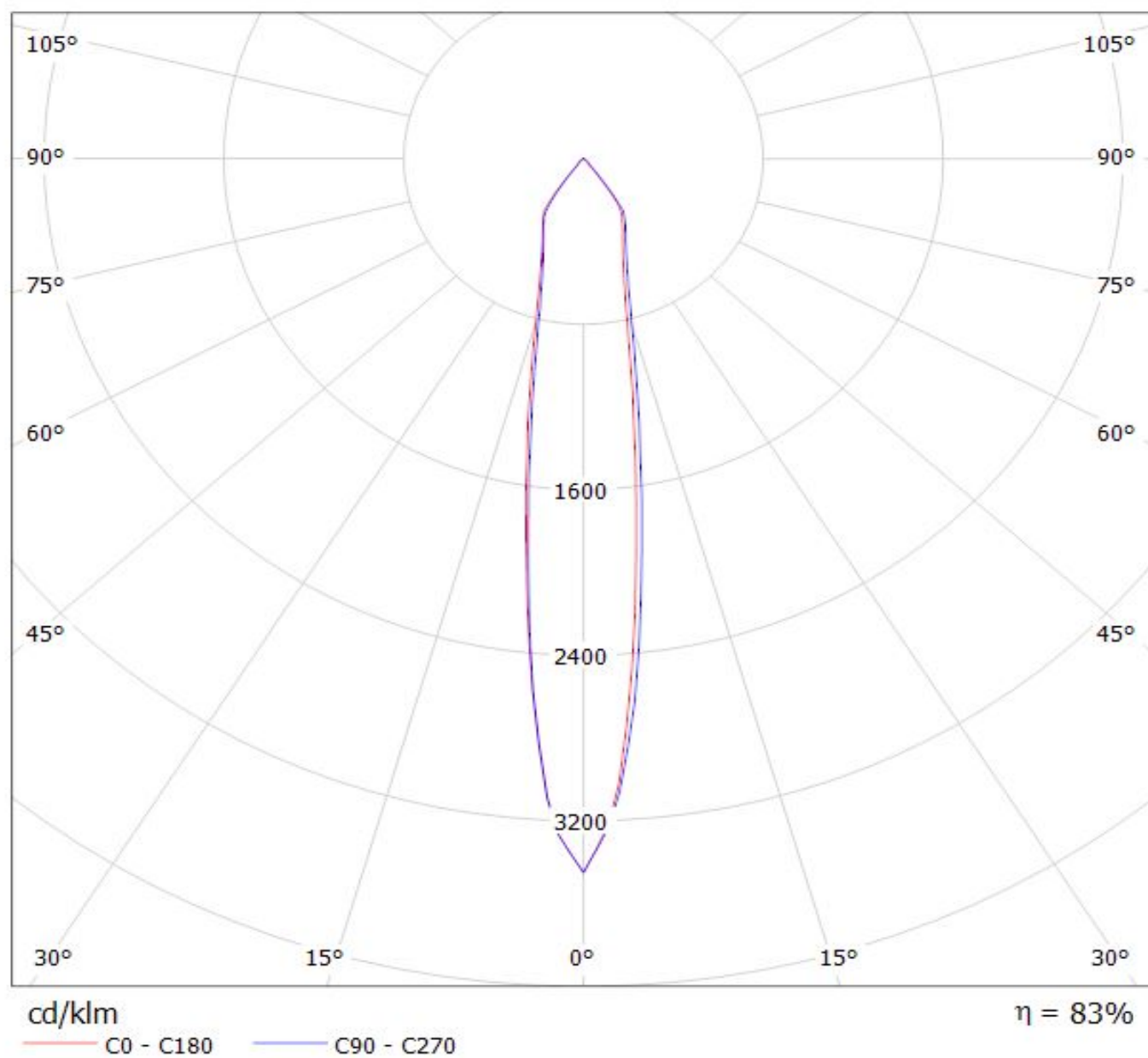
— C0 - C180

— C90 - C270

$\eta = 85\%$

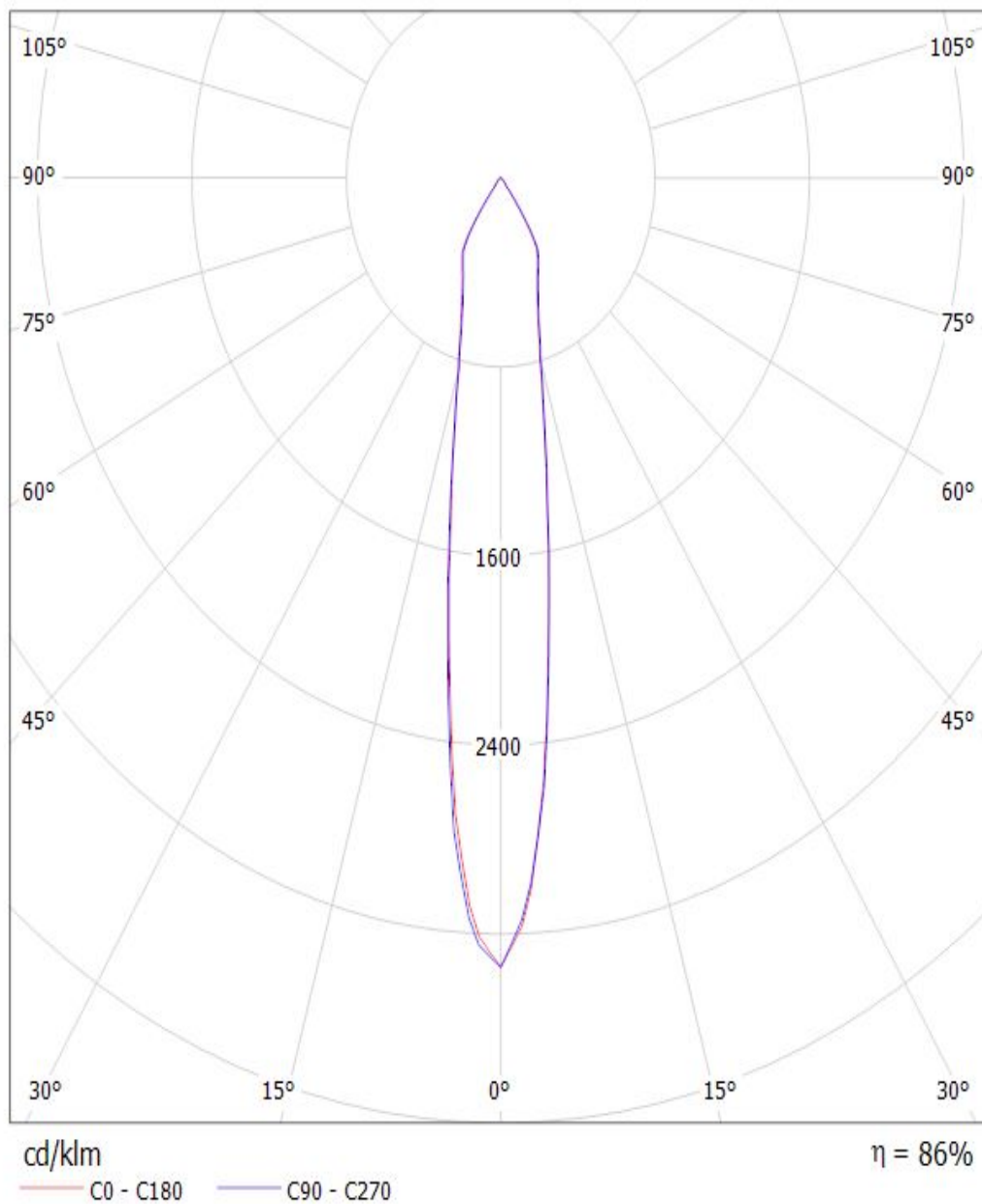
Luminaire: LEDiL Oy F13380_ANGELA-M_(WU-M-461-827)

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

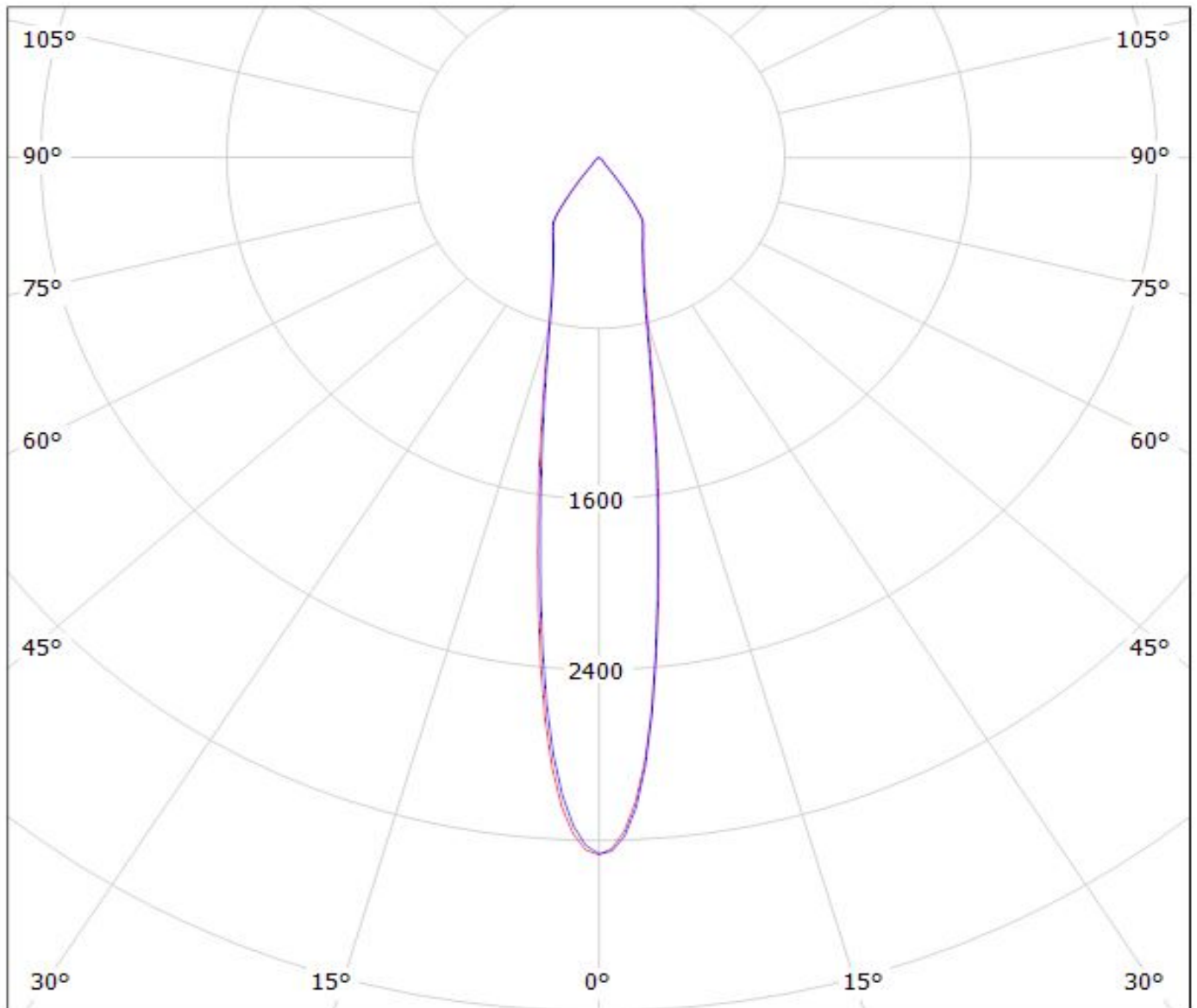


Luminaire: LEDiL Oy F13380_ANGELA-M_(STARK_LES19)

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)
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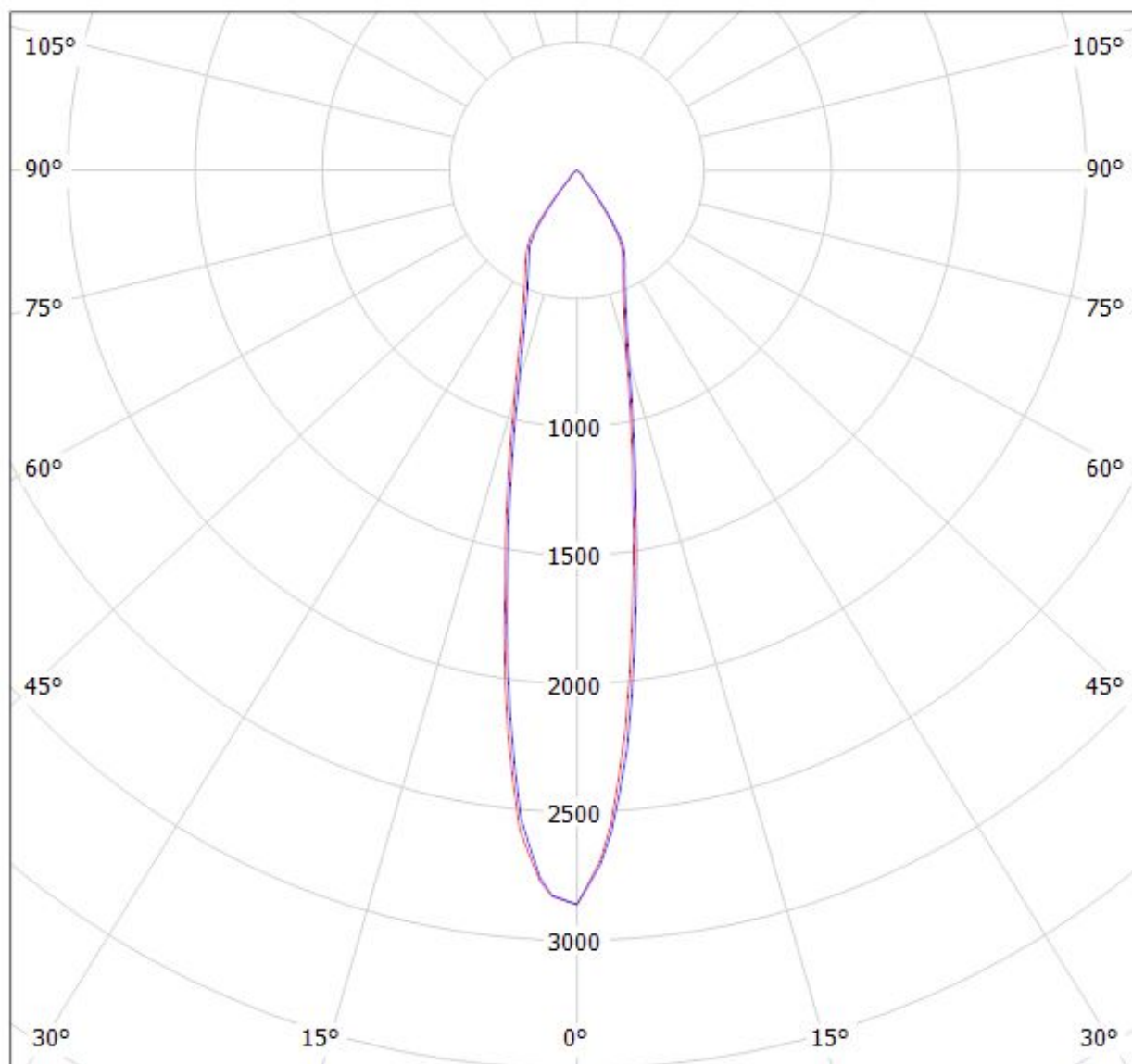
cd/klm

— 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



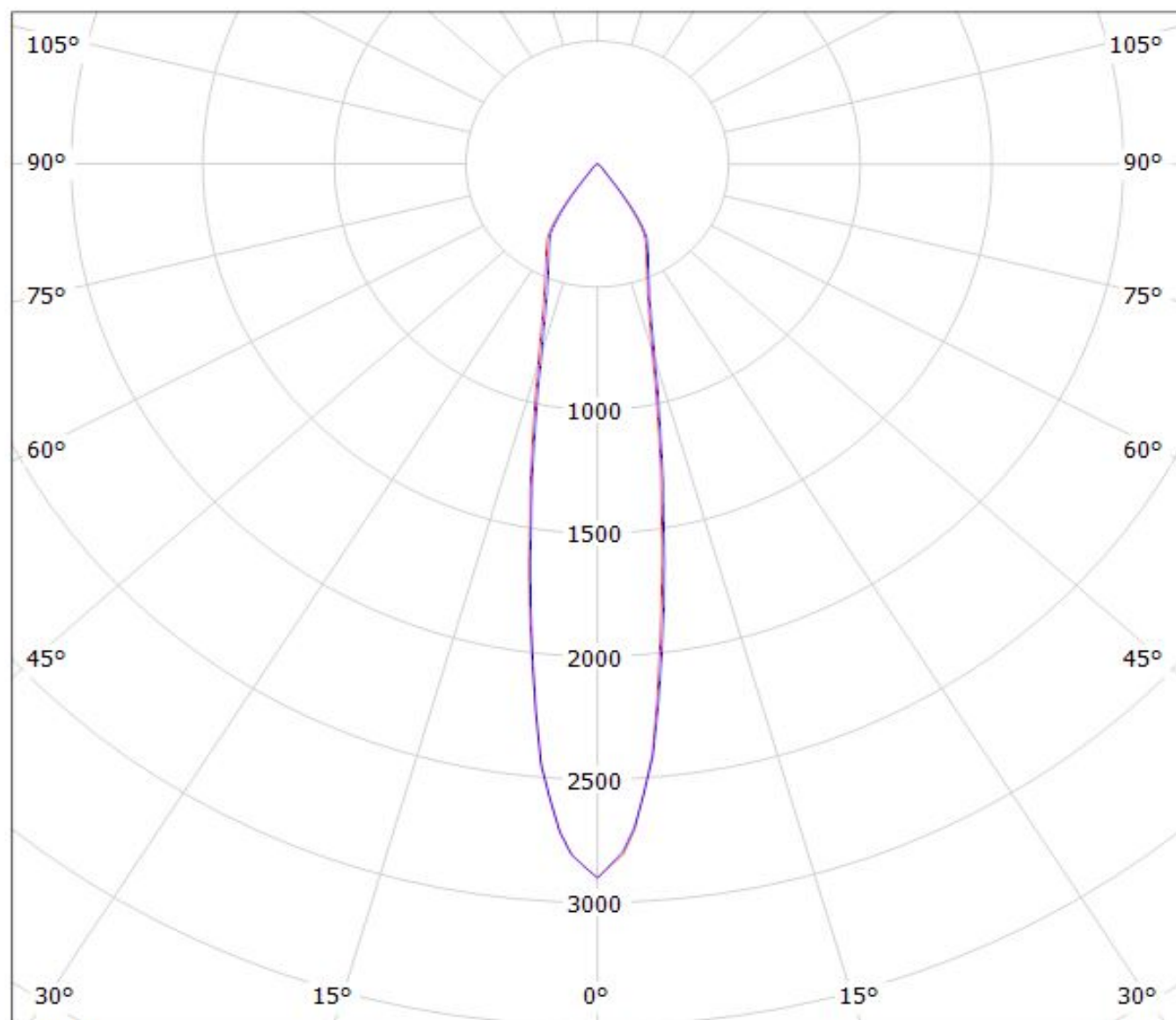
cd/klm

$\eta = 85\%$

— 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



cd/klm

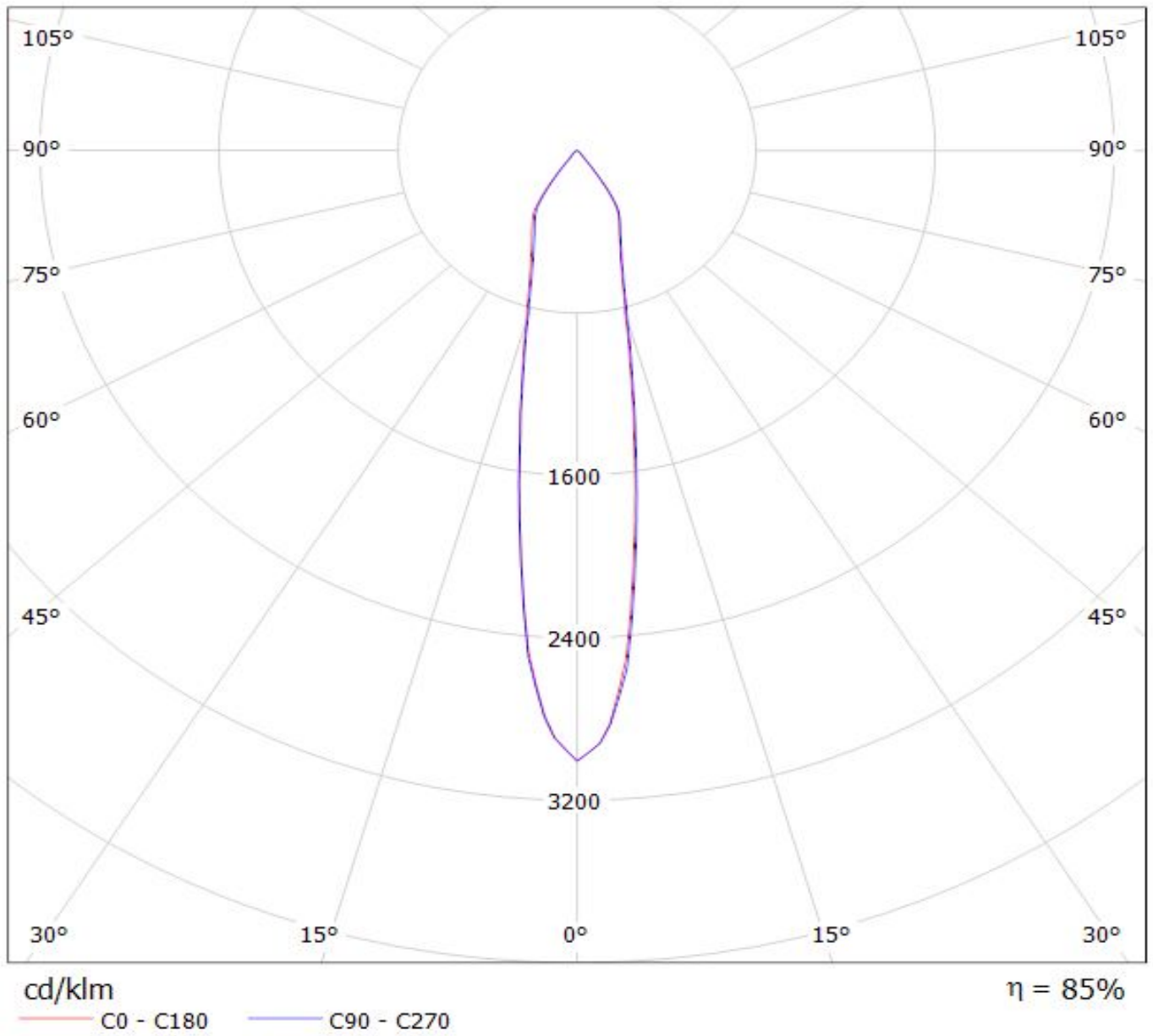
— C0 - C180

— C90 - C270

$\eta = 85\%$

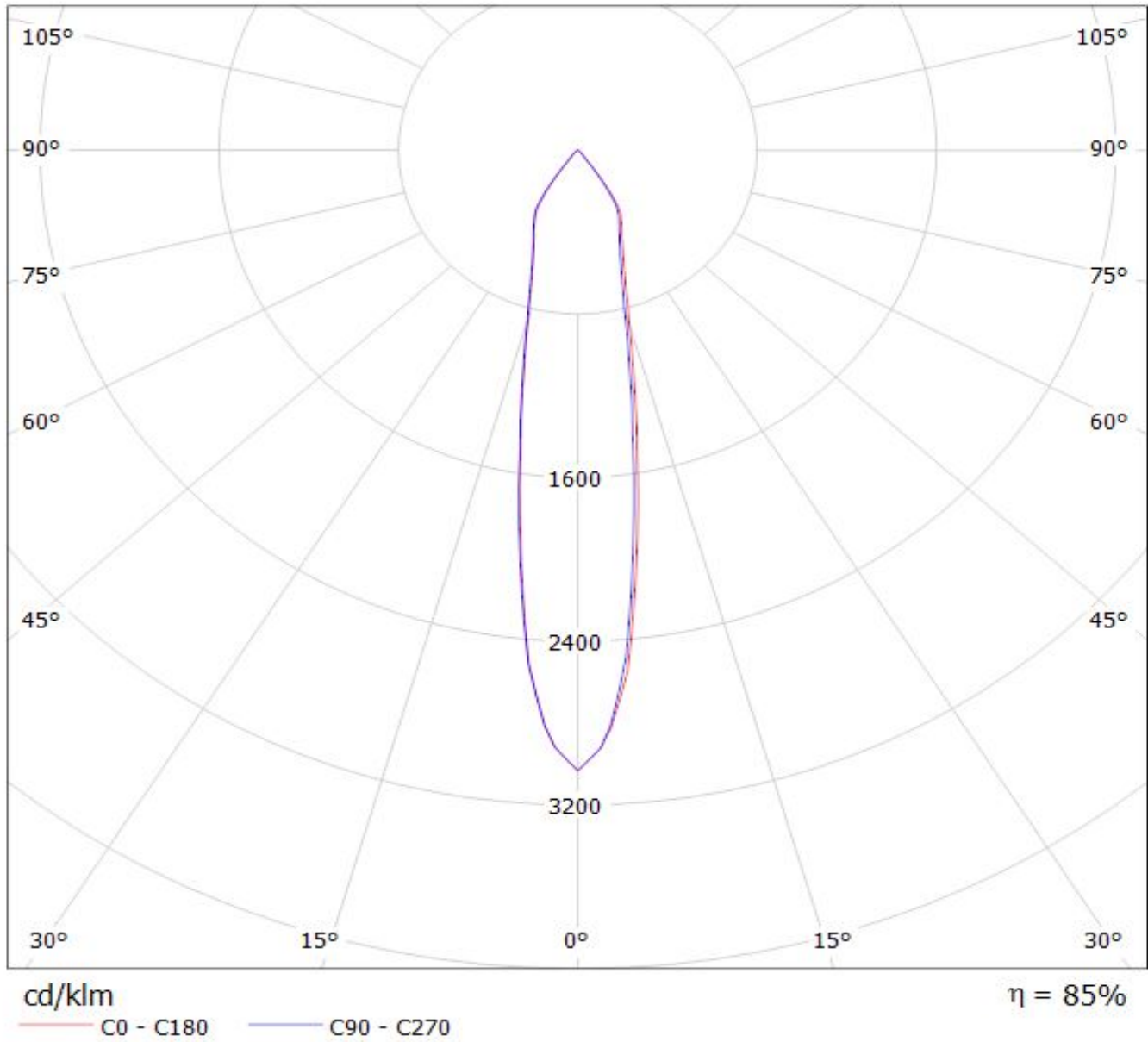
Luminaire: LEDiL Oy F13380_ANGELA-M_(WU-M-462-827)

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



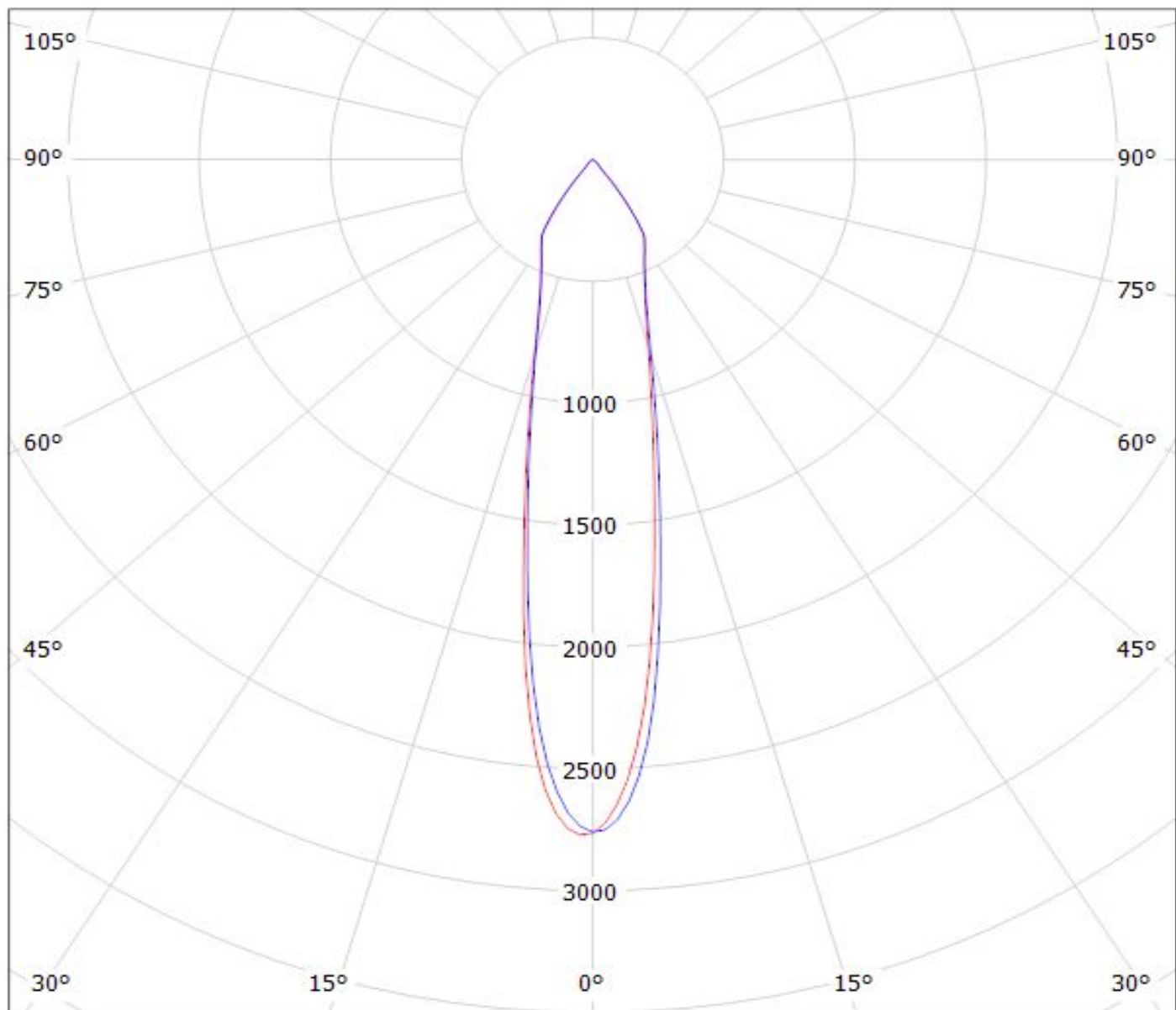
Luminaire: LEDiL Oy F13380_ANGELA-M_(WU-M-464-827)

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



cd/klm

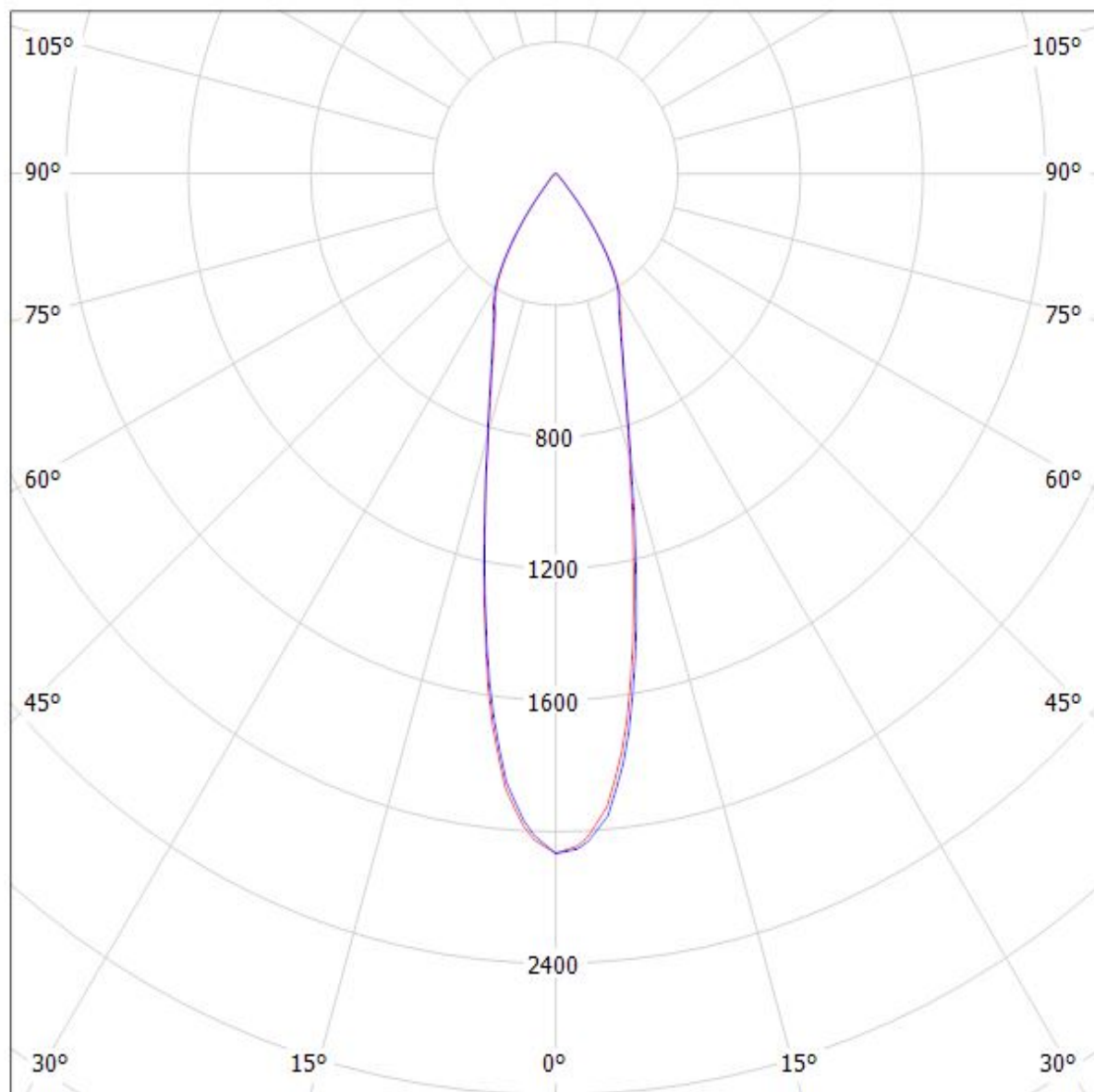
— C0 - C180

— C90 - C270

$\eta = 85\%$

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

$\eta = 85\%$

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.