

DETAILS

Product Number	FN14720_STELLA-FRESNEL
Family	Stella
Type	Pack
Color	black
Diameter	90 mm
Height	23 mm
Style	round
Optic Material	Silicone
Holder Material	
Fastening	screw
Status	production ready
ROHS Compliant	Yes
Date Updated	15/02/2017



OPTICAL PROPERTIES

LED	Viewing	Light	Effi-		Connector
	Angle	Beam	ciency	cd/lm	
VERO29	48 deg	Streetligh...	87 %	0.680	-
Vero SE 29	46 deg	Streetligh...	87 %	0.710	-
Vero SE 13	27 deg	Streetligh...	85 %	1.600	-
Vero SE 18	31 deg	Streetligh...	86 %	1.300	-
V10 Gen7	sim: 18	Streetligh...	sim: 85 %	sim: 4.010	Bender Wirth: 434 Typ Z1
V22 Gen7	sim: 30	Streetligh...	sim: 84 %	sim: 0.457	IDEAL: 50-2204CT
V18 Gen7	sim: 26	Streetligh...	sim: 85 %	sim: 1.970	BJB: 47.319.2350
V13 Gen7	sim: Asymmetri	Streetligh...	sim: 86 %	sim: 0.000	-
V22 Gen7	36 deg	Streetligh...	84 %	0.970	Bender Wirth: 431 Typ Z1
CLL04x/CLU04x	36 deg	Streetligh...	86 %	1.100	-
CLL05x/CLU05x	sim: 46	Streetligh...	sim: 91 %	sim: 0.840	-
CXA/B 3590	sim: 37	Streetligh...	sim: 83 %	sim: 1.100	-
CXA/B 25xx	sim: 24	Streetligh...	sim: 83 %	sim: 2.500	-
CXA/B 30xx	37 deg	Streetligh...	88 %	1.000	BJB: 47.319.2151
CXA/B 1816 & CXA/B 1820 & CXA 1850	24 deg	Streetligh...	84 %	1.900	-
LUXEON CoB 1216/1812	39 deg	Streetligh...	86 %	0.930	-
LUXEON CoB 1208	sim: 23	Streetligh...	sim: 82 %	sim: 2.800	-
LUXEON CoB 1321	50 deg	Streetligh...	85 %	0.600	-
LUXEON CoB 1825	56 deg	Streetligh...	84 %	0.540	-
CXM-22	38 deg	Streetligh...	86 %	0.930	Bender Wirth: 431 Typ L3
COB H-Type	38 deg	Streetligh...	85 %	0.920	-
COB J-Type	26 deg	Streetligh...	85 %	1.600	-
Solerialq P13	25 deg	Streetligh...	89 %	1.900	-
Solerialq S19	32,1 deg	Streetligh...	84 %	1.219	-
Fortimo SLM 1211 L19 G6 Poke-In	33 deg	Streetligh...	87 %	1.200	-



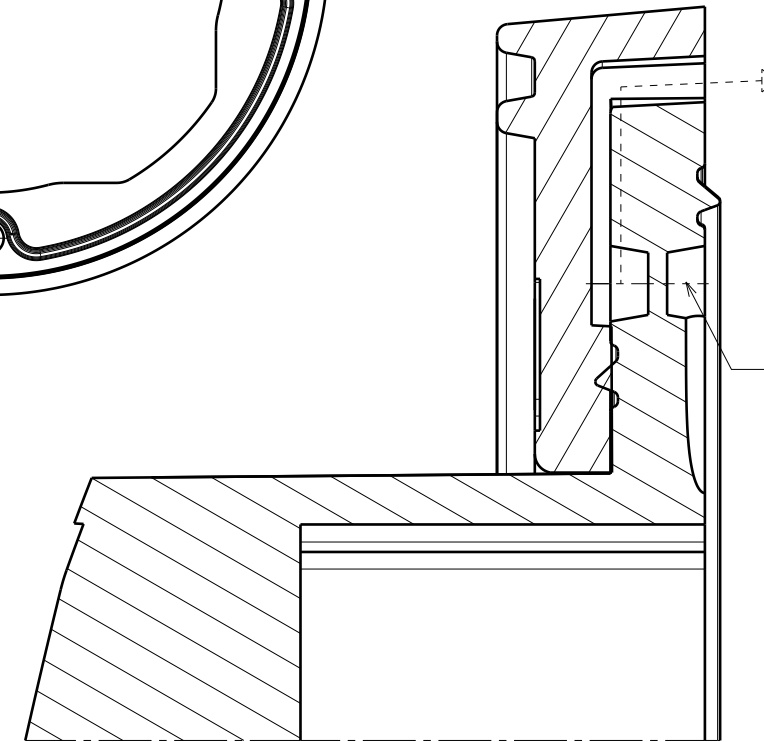
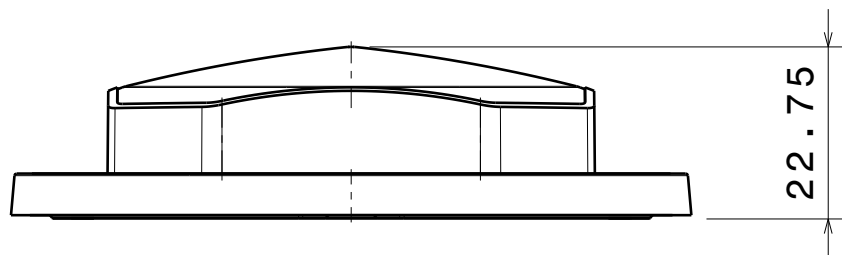
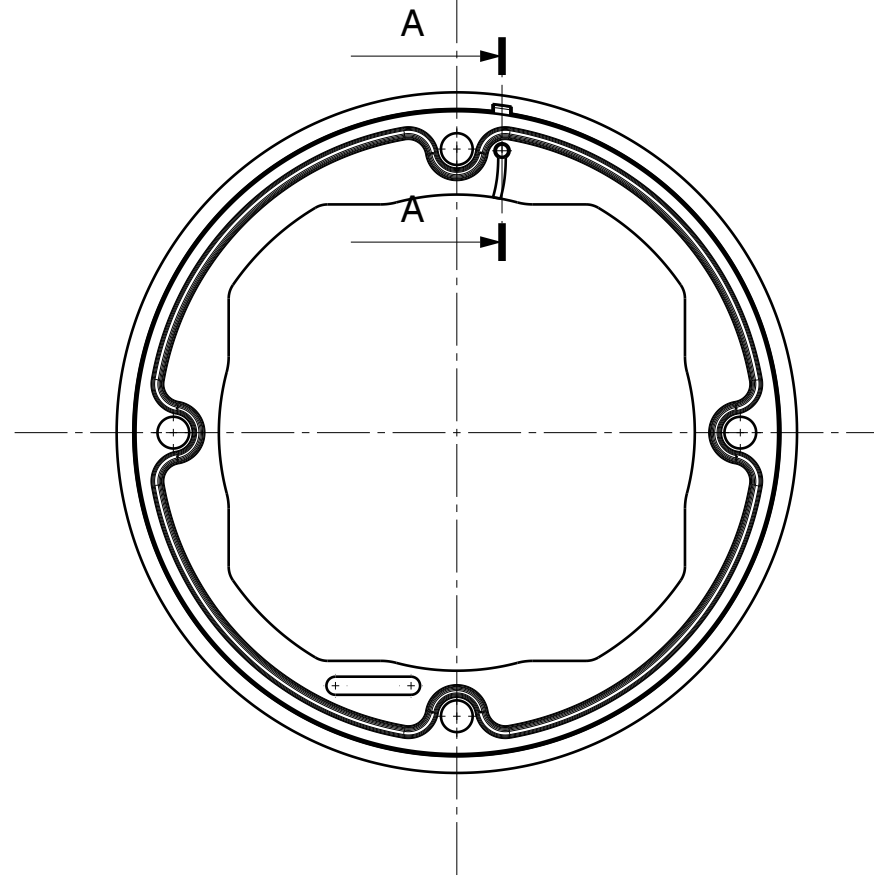
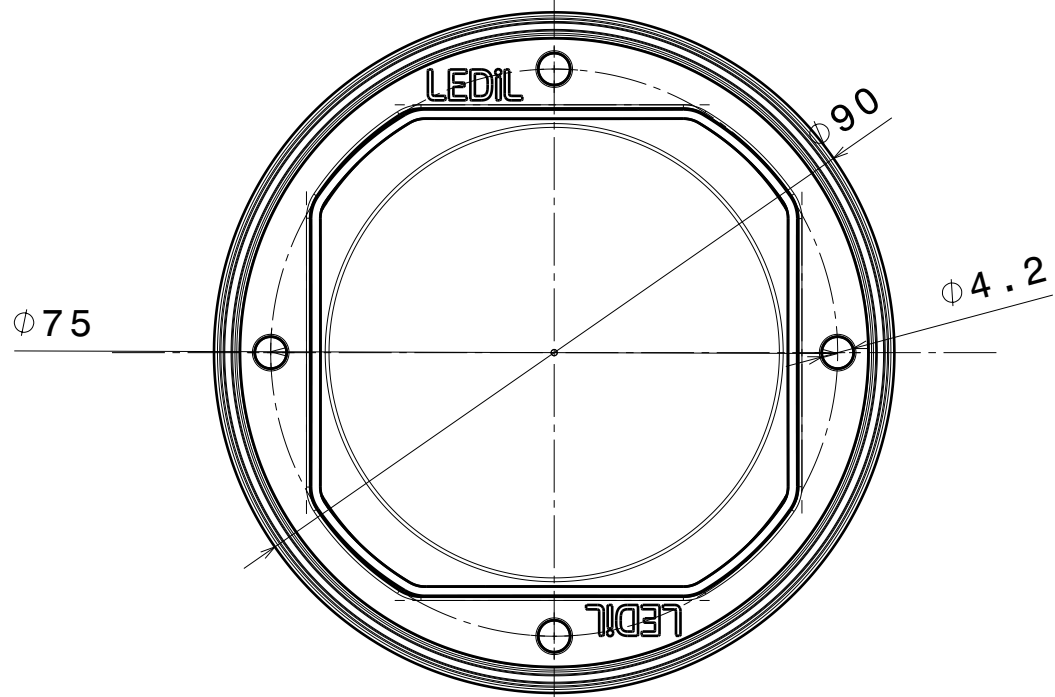
PRODUCT DATASHEET

Stella series

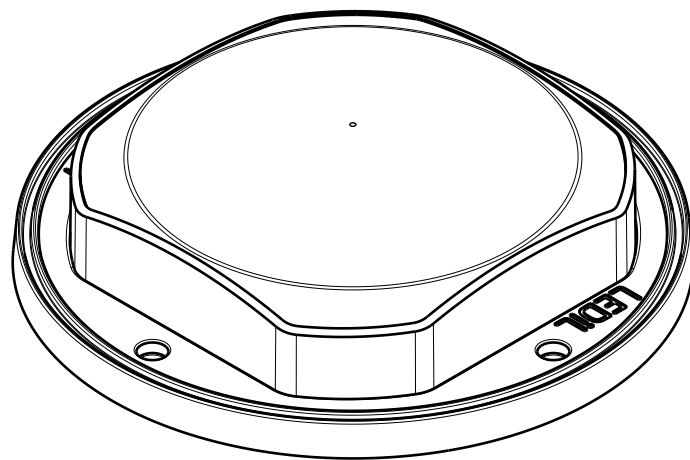
last update 15/2/2017

OPTICAL PROPERTIES

LED	Viewing Angle	Light Beam	Effi- ciency	cd/lm	Connector
COB D Series LES 22 mm	37 deg	Streetligh...	84 %	0.920	-
COB D Series LES 14.5 mm	27 deg	Streetligh...	83 %	1.500	-
MJT COB LES 22	36 deg	Streetligh...	84 %	0.960	IDEAL: 50-2204CT
MJT COB LES 14.5	28 deg	Streetligh...	84 %	1.500	IDEAL: 50-2103CT
SLE G5 LES19	30 deg	Streetligh...	86 %	1.360	-
SLE G5 LES23	35 deg	Streetligh...	86 %	1.050	-



Section view A-A
Scale: 5:1



Isometric view
Scale: 1:1

INDEX	PART NO	DESCRIPTION	MATERIAL	COLOUR
1	F14627	STELLA-FRESNEL	Optical grade LSR	
	F13322	STELLA-FRAME	PA66GF30	black

Tolerances if not otherwise shown
According to DIN ISO 2768-1
Linear measures: class V
Please note that due to the elasticity of
products made of silicone actual measured
values may vary, and therefore typical
tolerance values may not be applied.



Ledil Oy
Salorankatu 10
FIN 24240 SALO
Finland

THIRD ANGLE PROJECTION:

DRAWING TITLE
FN14720_STELLA-FRESNEL

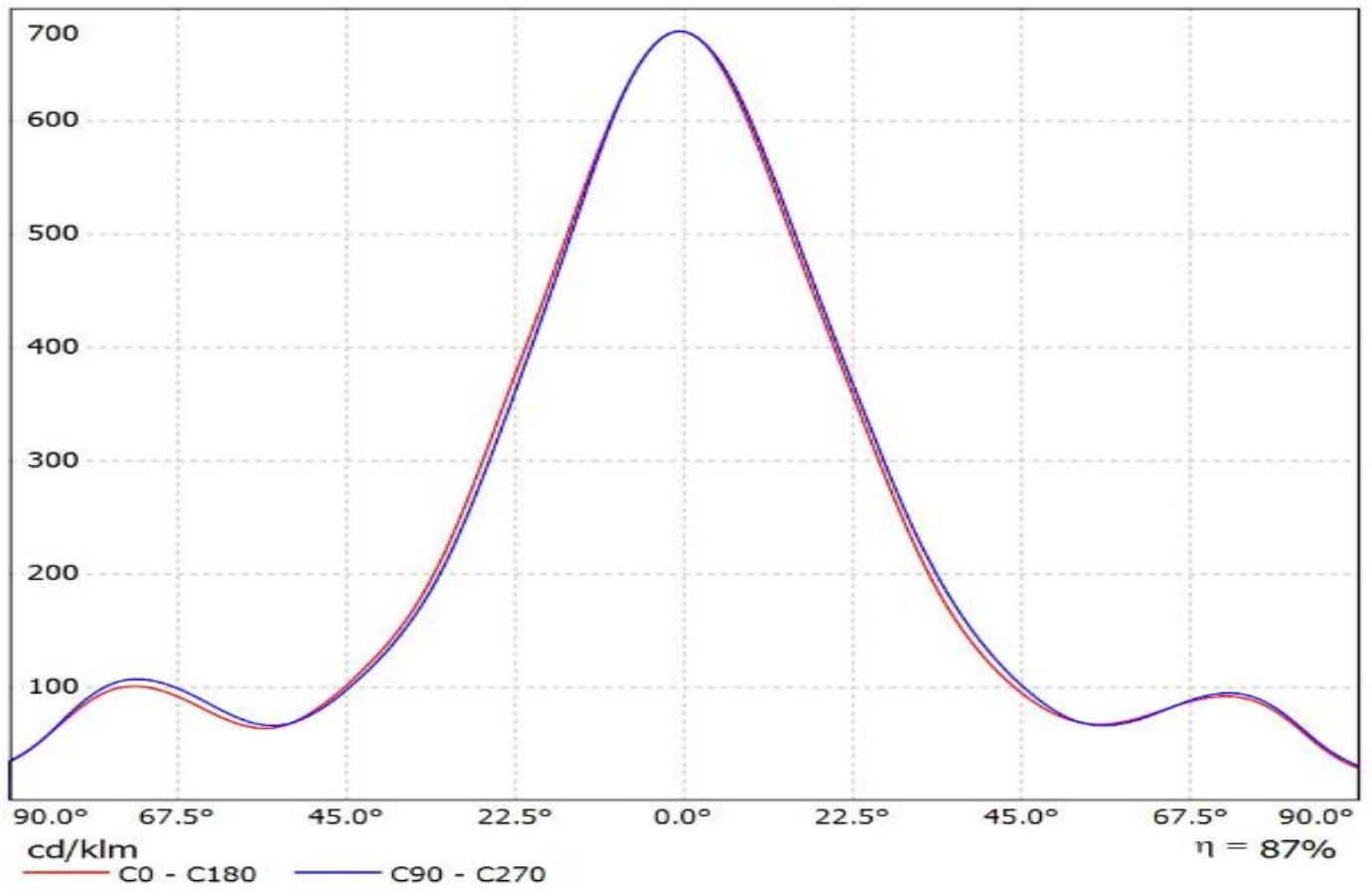
This drawing is the property
of LEDiL Oy. It may not be
reproduced, copied or
communicated without a written
agreement with LEDiL Oy.

SIZE	PART NUMBER
A3	FN14720

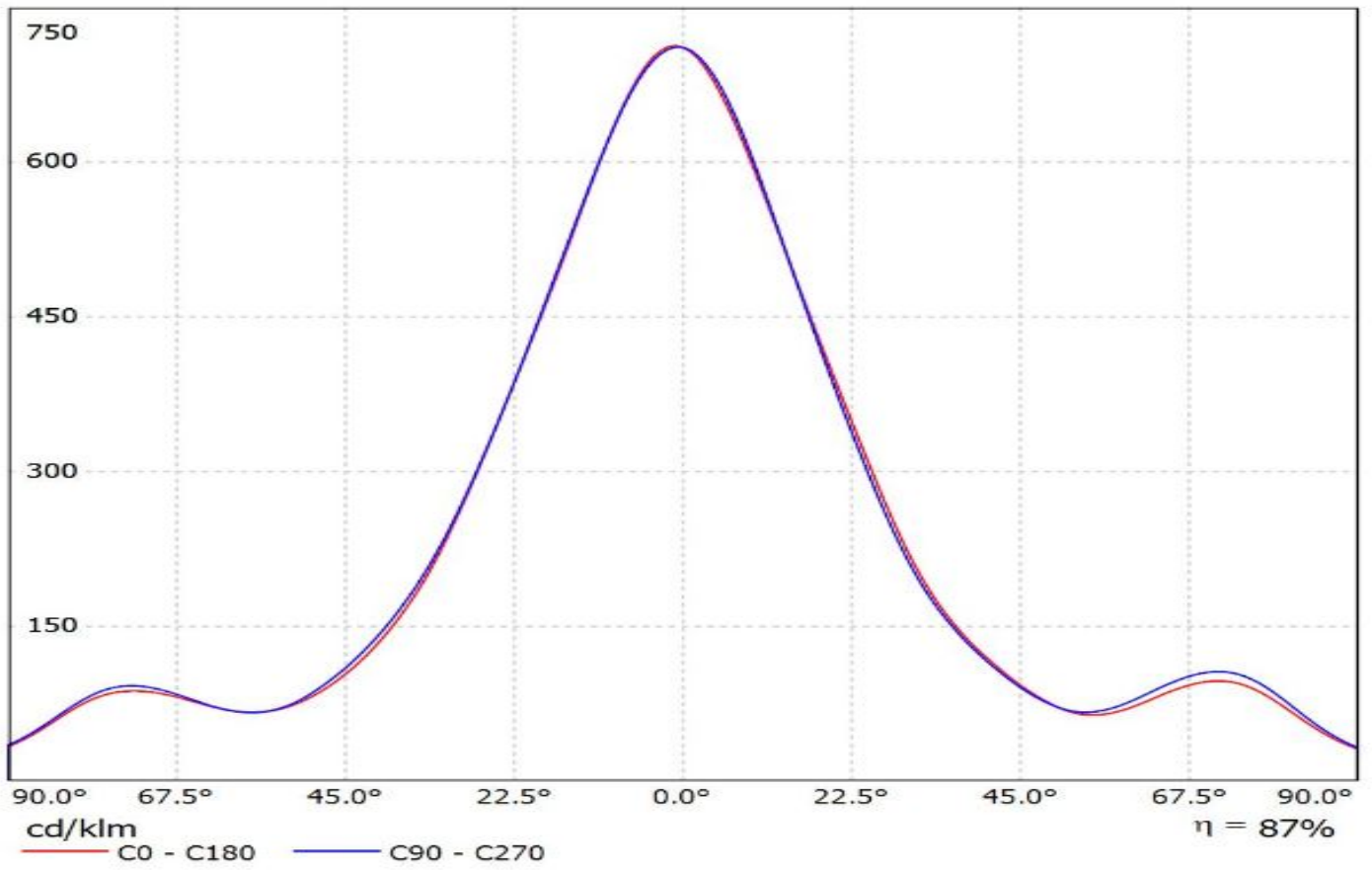
SCALE	1:1	WEIGHT	35 g	SHEET	1/1
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Luminaire: Ledil FN14720_STELLA-FRESNEL_(Vero29)

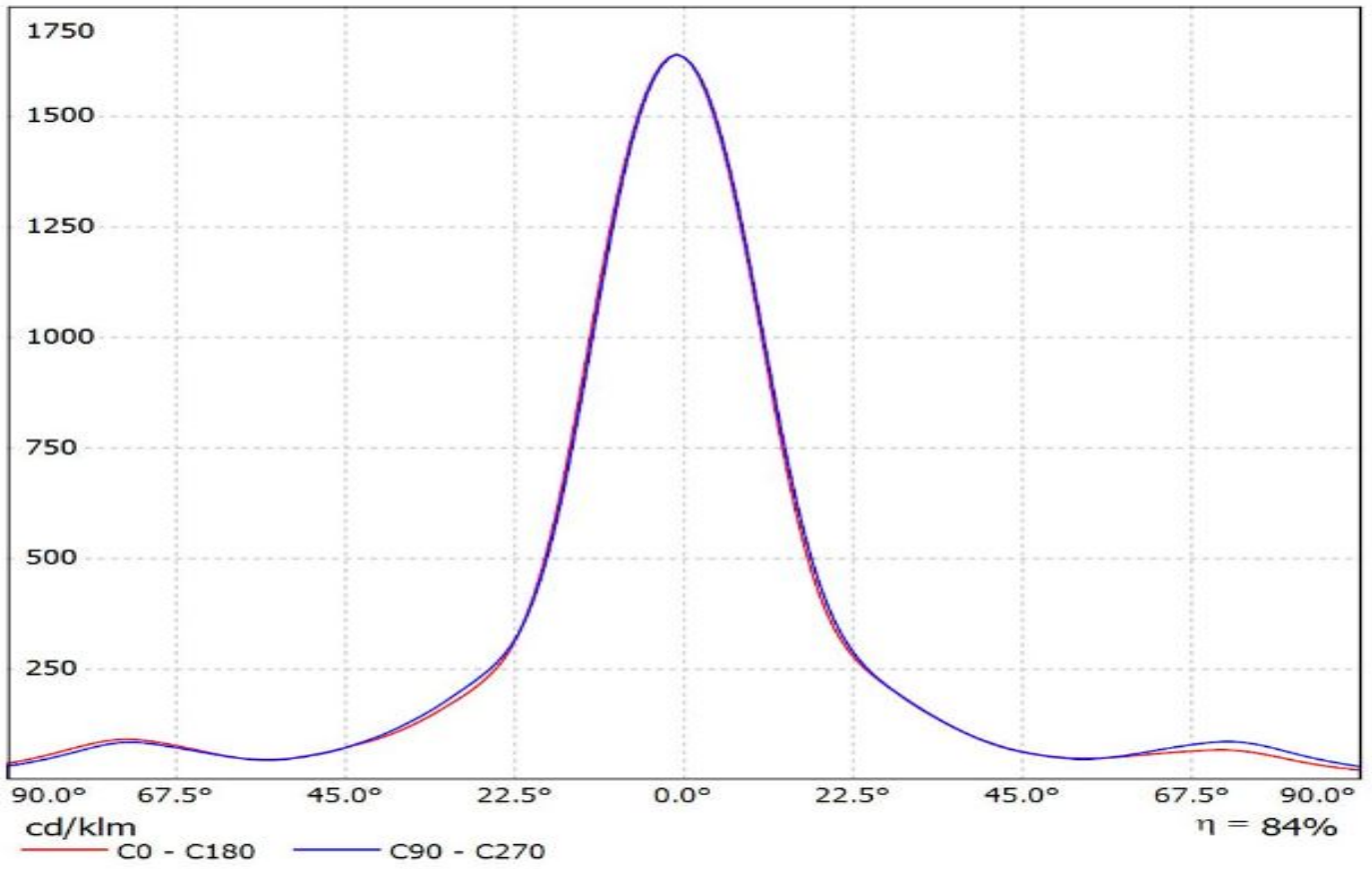
Lamps: 1 x Bridgelux_Vero29_(30-E10K0L-Y2)_1467.5lm@250mA_P=8.8850W_I=0.25A



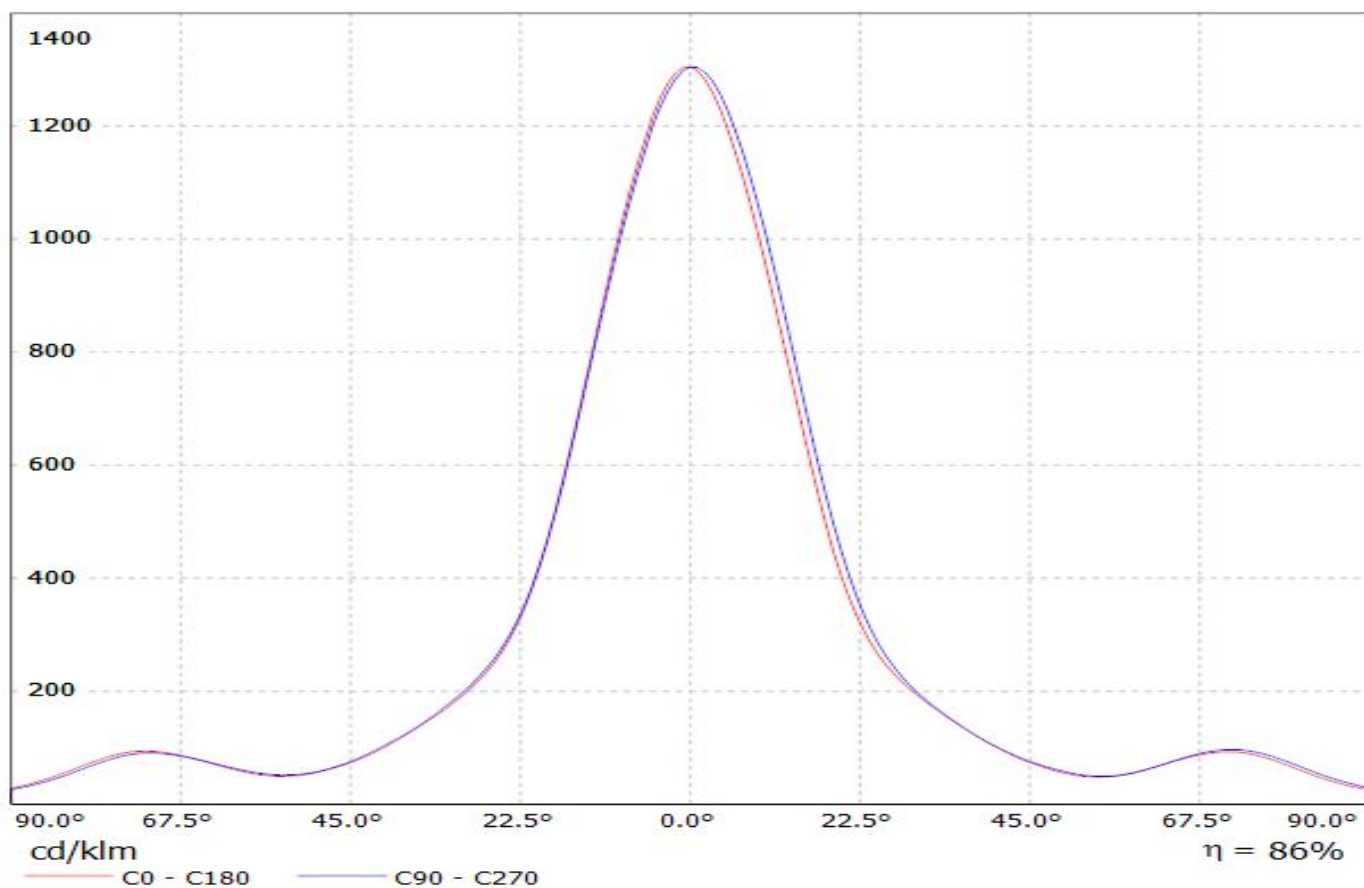
Luminaire: Ledil FN14720_STELLA-FRESNEL_(Vero29_SE_Gen7)
Lamps: 1 x Vero29_SE_Gen7_1750.87lm@250mA_P=8.5765_I=0.25A



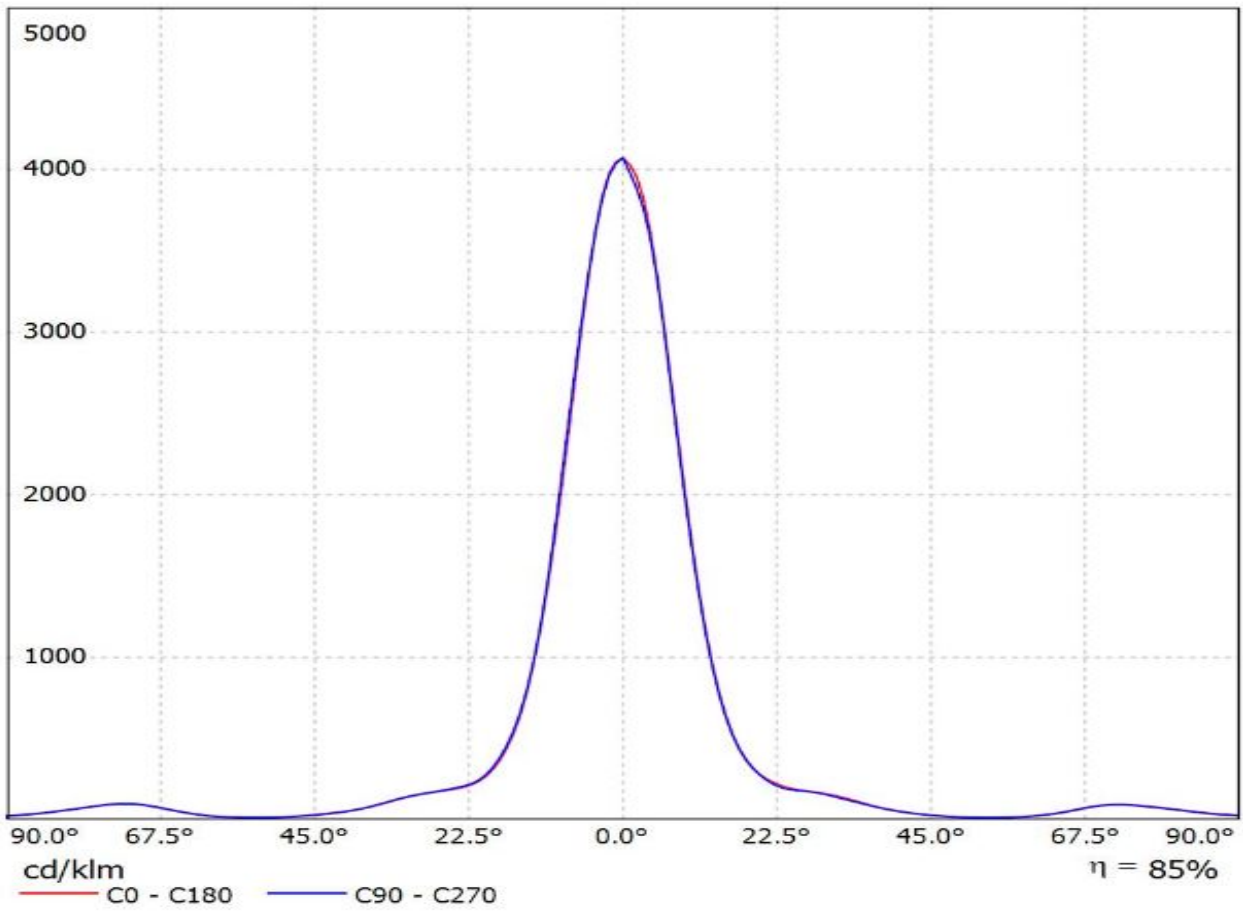
Luminaire: Ledil FN14720_STELLA-FRESNEL_(Vero_13_SE)
Lamps: 1 x Bridgelux_Vero_13_SE_(BXRC-30E2000-C-73-SE)
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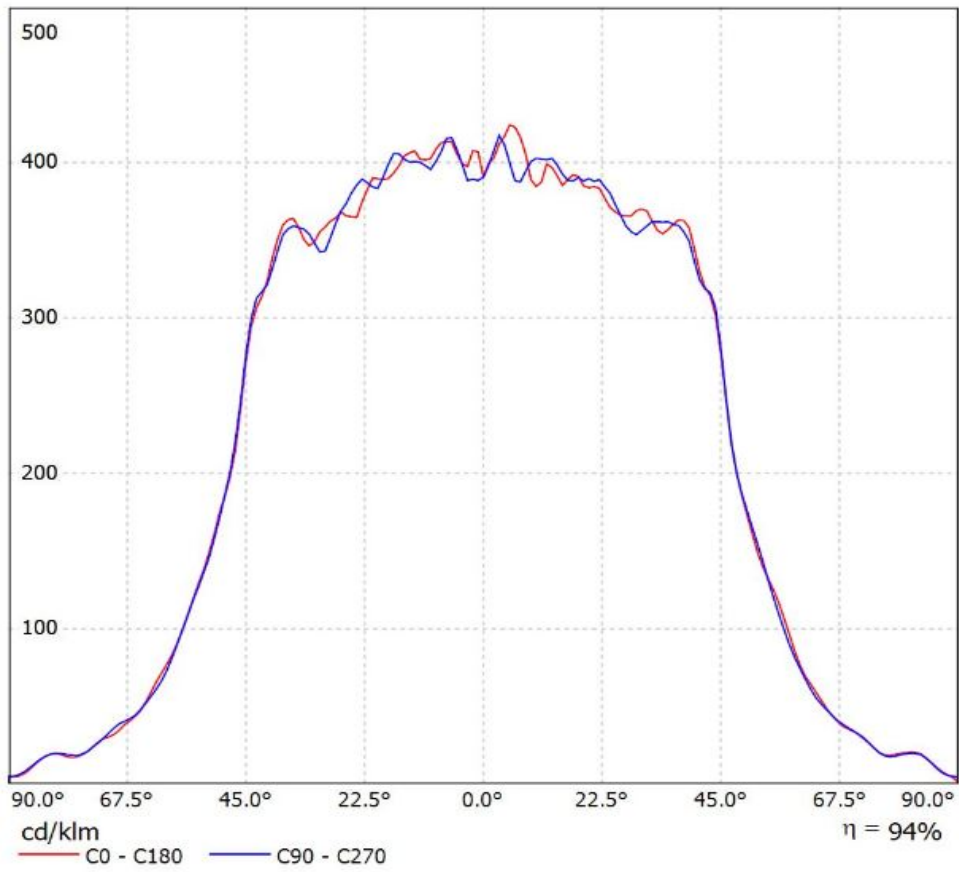
Luminaire: LEDiL Oy FN14720_STELLA-FRESNEL_(VERO18_SE)
Lamps: 1 x Bridgelux_VERO18_SE_(BXRC-30E4000-C-73-SE)
_1335.46lm@250mA_P=7.9961W_I=0.25A



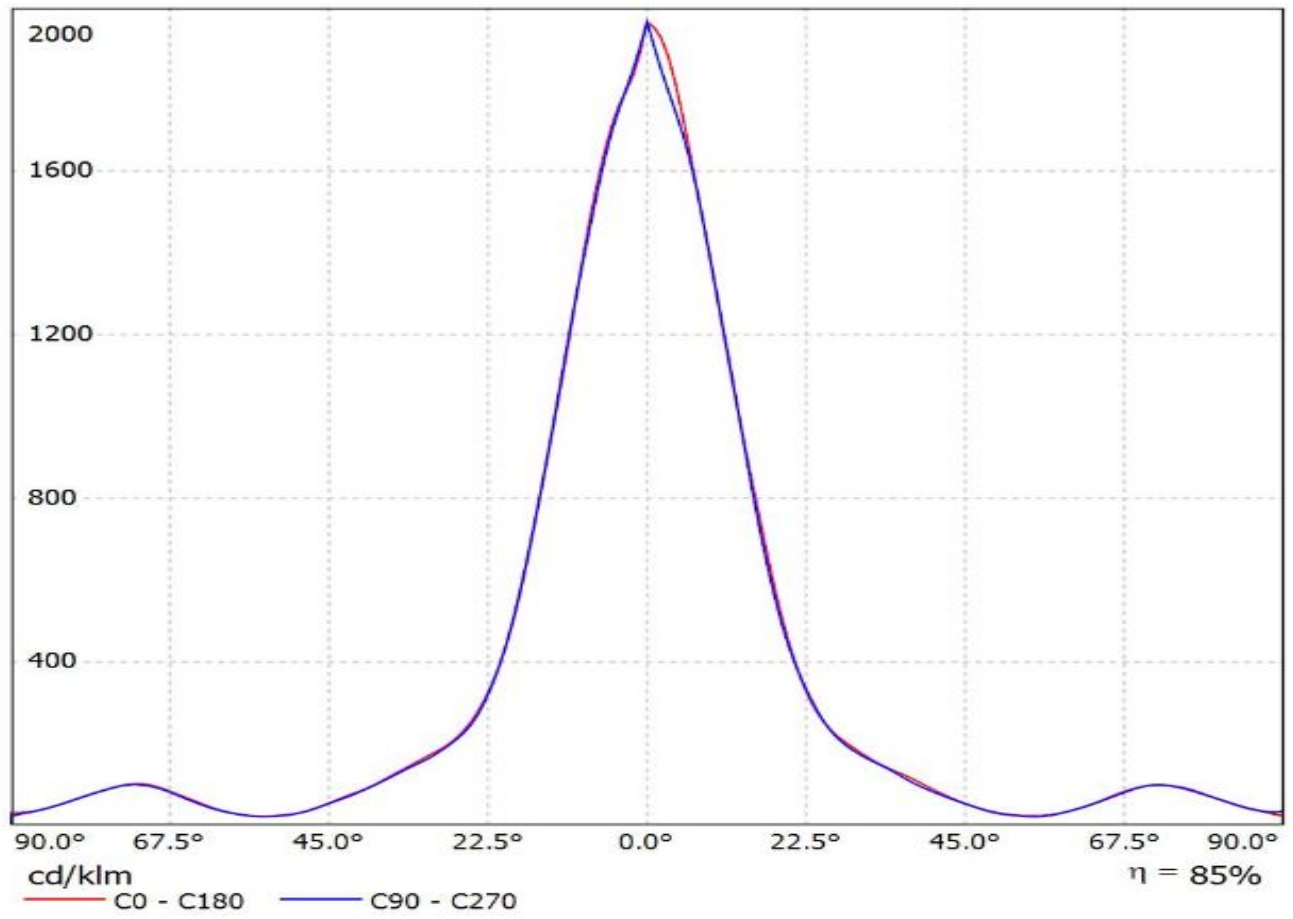
Luminaire: Ledil Oy FN14720_STELLA-FRESNEL+_Bender+Wirth 434 TypL1_BRIDGELUX_V10_Gen7_SIMULATED
Lamps: 1 x BRIDGELUX V10 Gen7



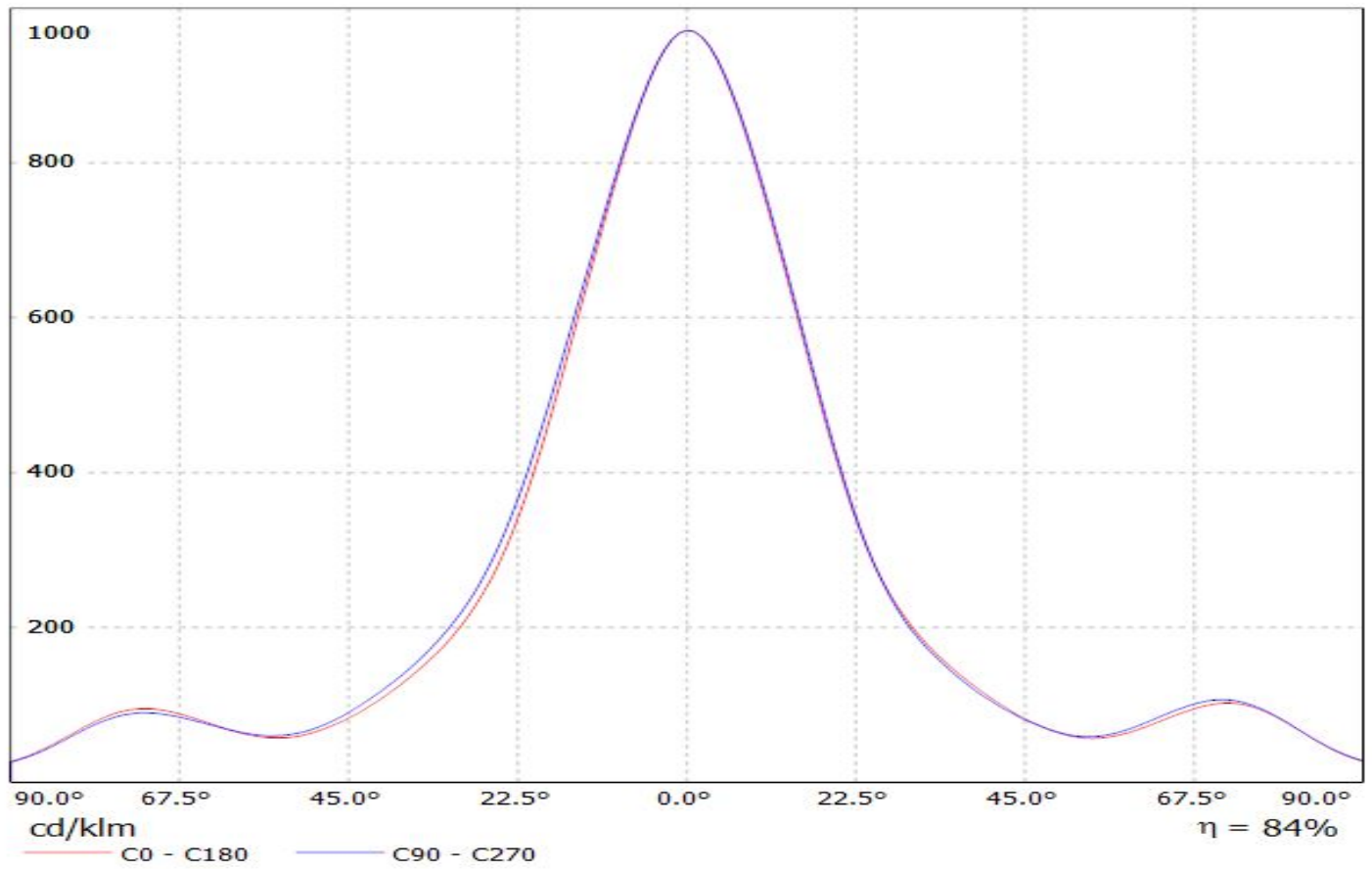
Luminaire: Ledil Oy FN14720_STELLA-FRESNEL_Bridgelux_V22_Gen7_SIMULATED FN14720_STELLA-FRESNEL_Bridgelux_V22_Gen7_SIMULATED
Lamps: 1 x FN14720_STELLA-FRESNEL_Bridgelux_V22_Gen7_SIMULATED



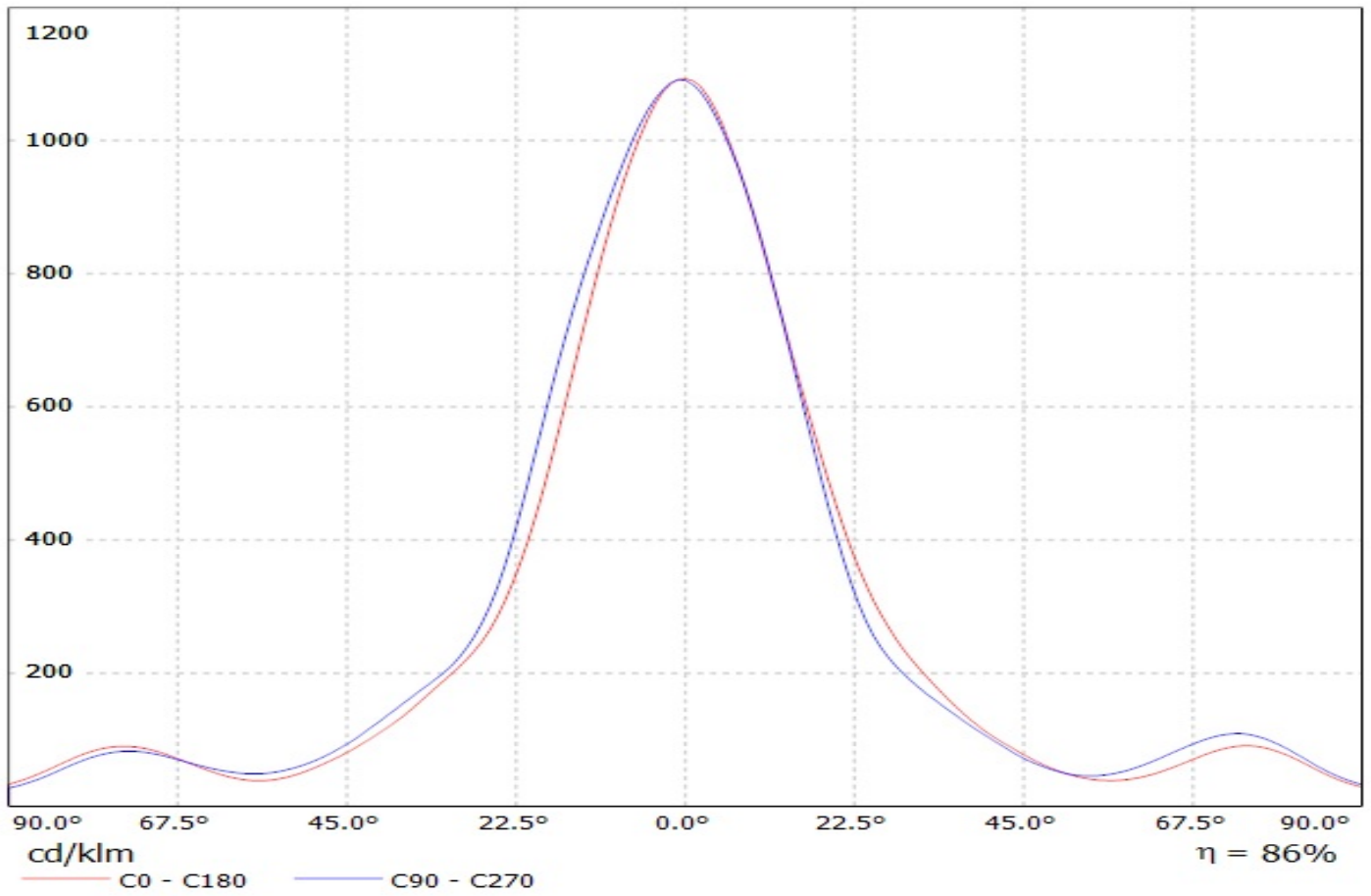
Luminaire: Ledil Oy FN14720_STELLA-FRESNEL_+_BJB_47_319_2350_BRIDGELUX_V18_Gen7_SIMULATED
Lamps: 1 x BRIDGELUX V18 Gen7



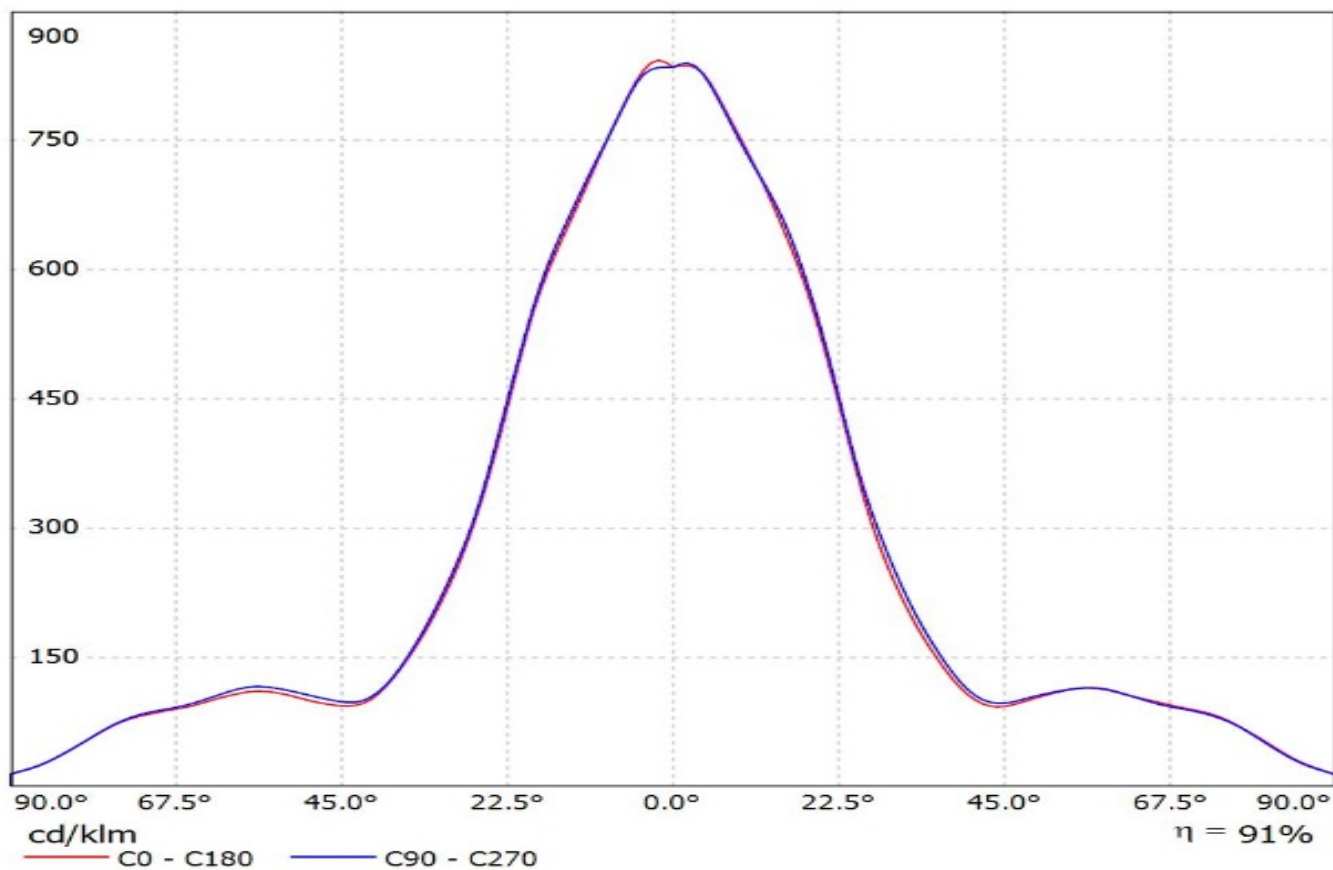
Luminaire: LEDiL Oy FN14720-STELLA-FRESNEL_(V22_Gen7+BW)
Lamps: 1 x Bridgelux_V22_Gen7_(BXRE-30E6500-B)
+BW431_TypZ1_2036.72lm@250mA_P=11.891W_I=0.250A



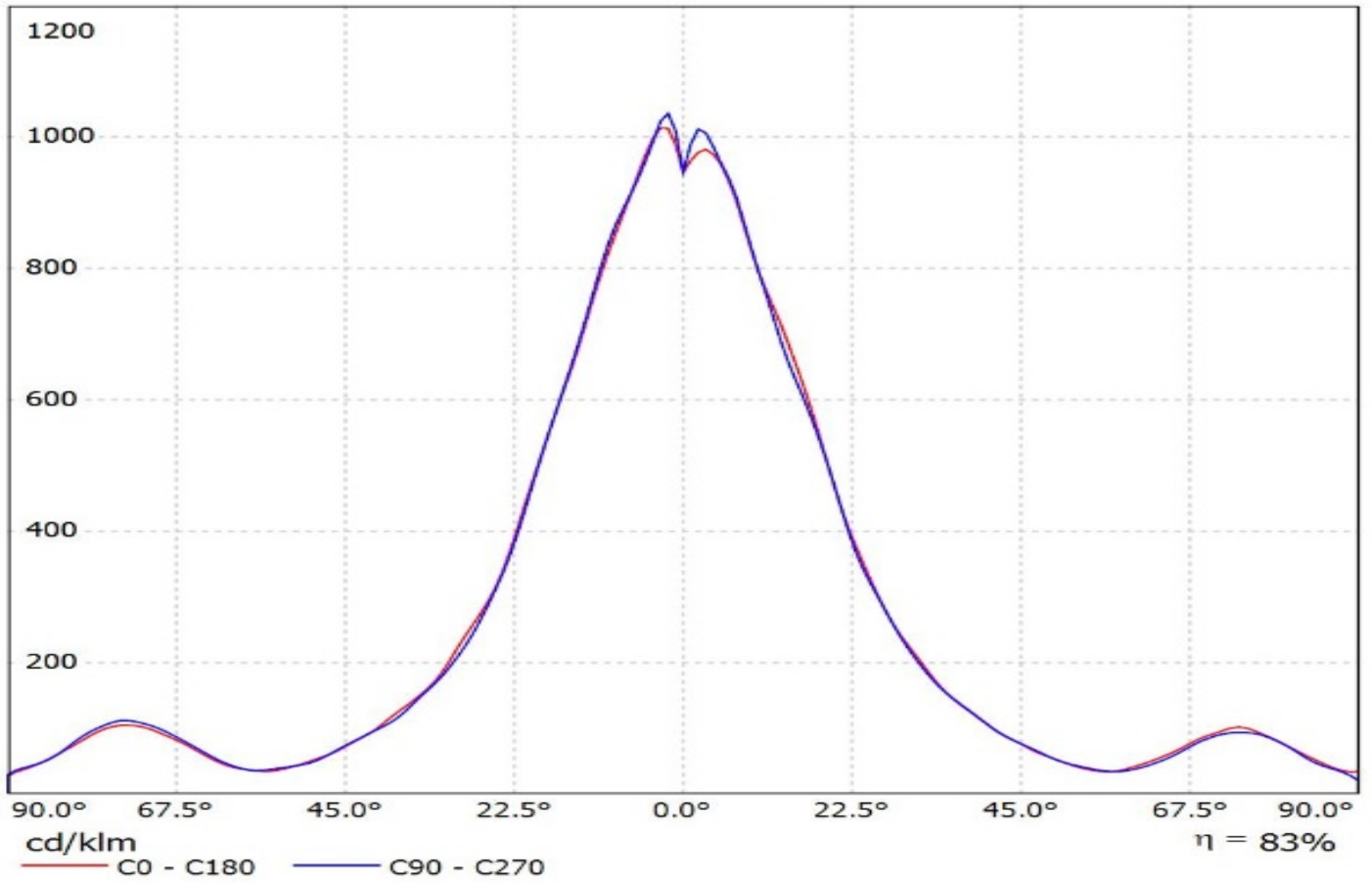
Luminaire: LEDiL Oy FN14720_STELLA-FRESNEL_(CLU046)
Lamps: 1 x Citizen_CLU046_1354.66lm@250mA_P=8.06877W_I=0.2499A



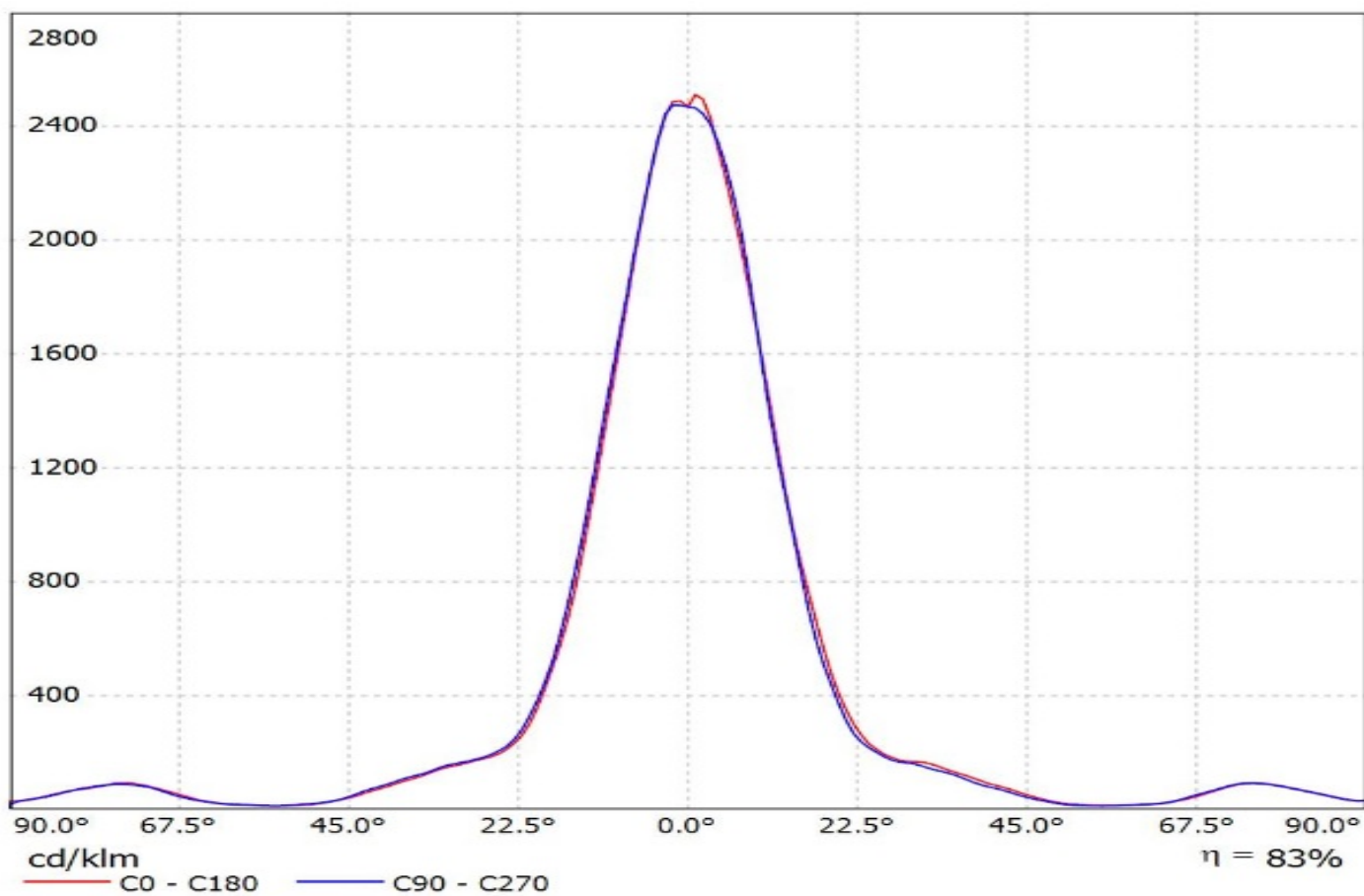
Luminaire: Ledil Oy FN14720_STELLA-FRESNEL_(CITIZEN_CLU05x)_SIMULATED
Lamps: 1 x CITIZEN_CLU054



Luminaire: Ledil Oy FN14720_STELLA-FRESNEL_(CXA3590)_SIMULATED
Lamps: 1 x Cree CXA3590

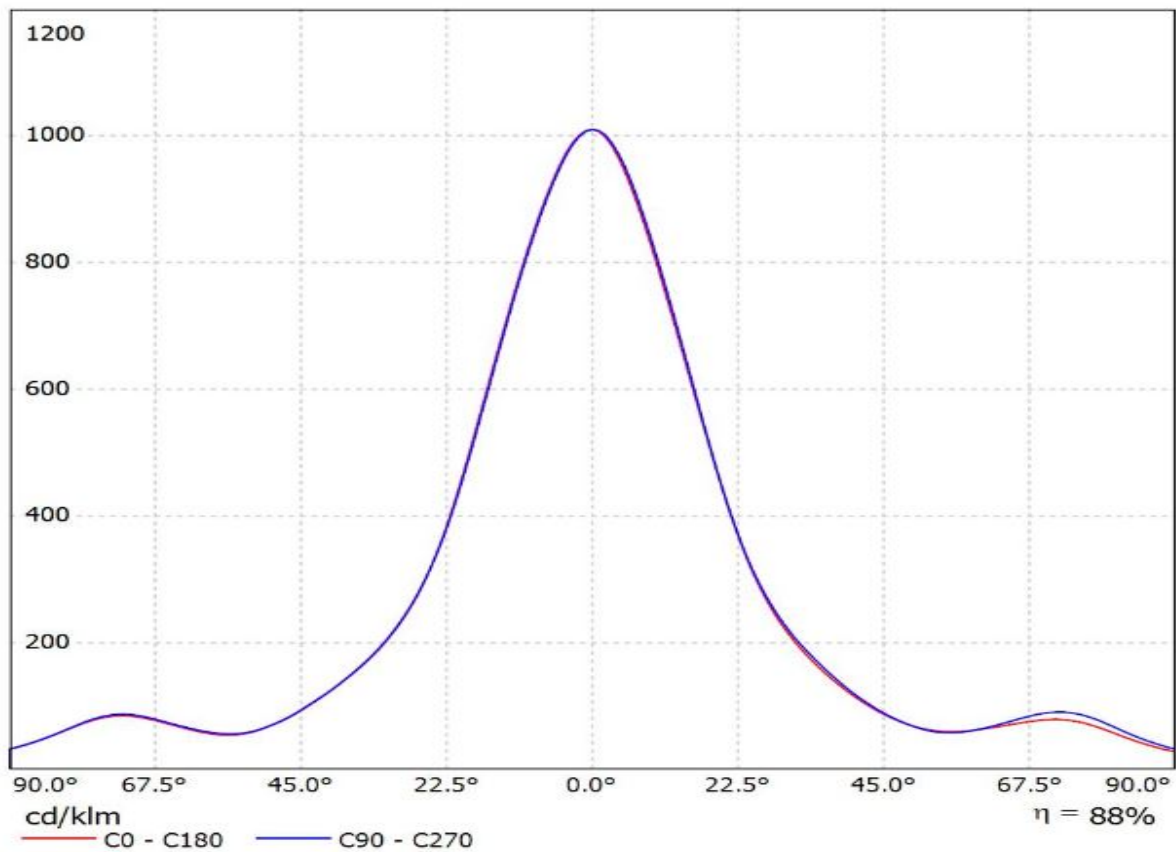


Luminaire: Ledil Oy FN14720_STELLA-FRESNEL_(CXA2590)_SIMULATED
Lamps: 1 x Cree CXA2590



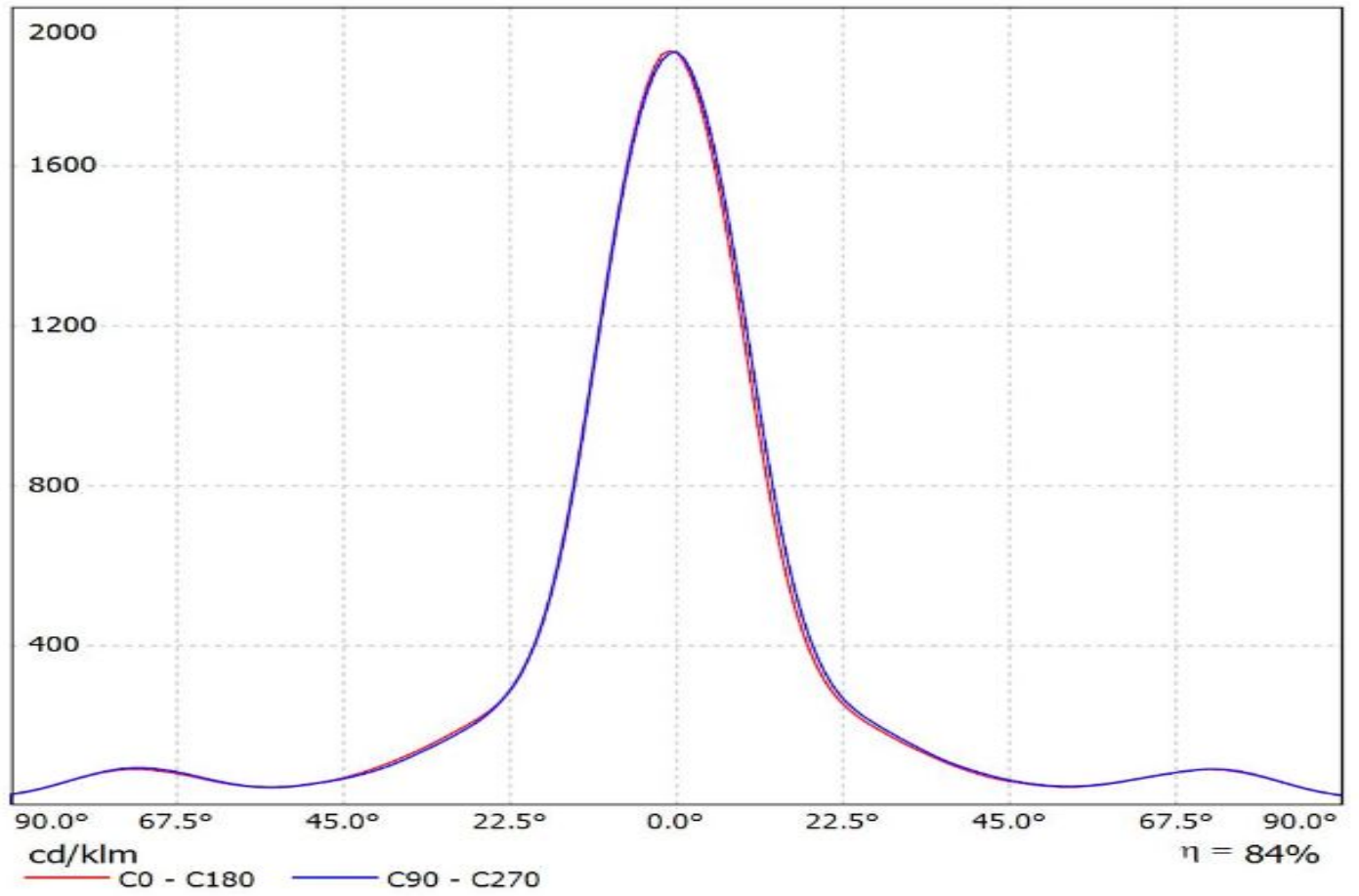
Luminaire: Ledil FN14720_STELLA-FRESNEL (CXB3070 +BJB)

Lamps: 1 x Cree_CXB3070_(-30G-AD-N0H-0001)_+BJB_47.319.2150_1399.52lm@250mA_CCT=3000K_P=8.0355W_I=0.25A



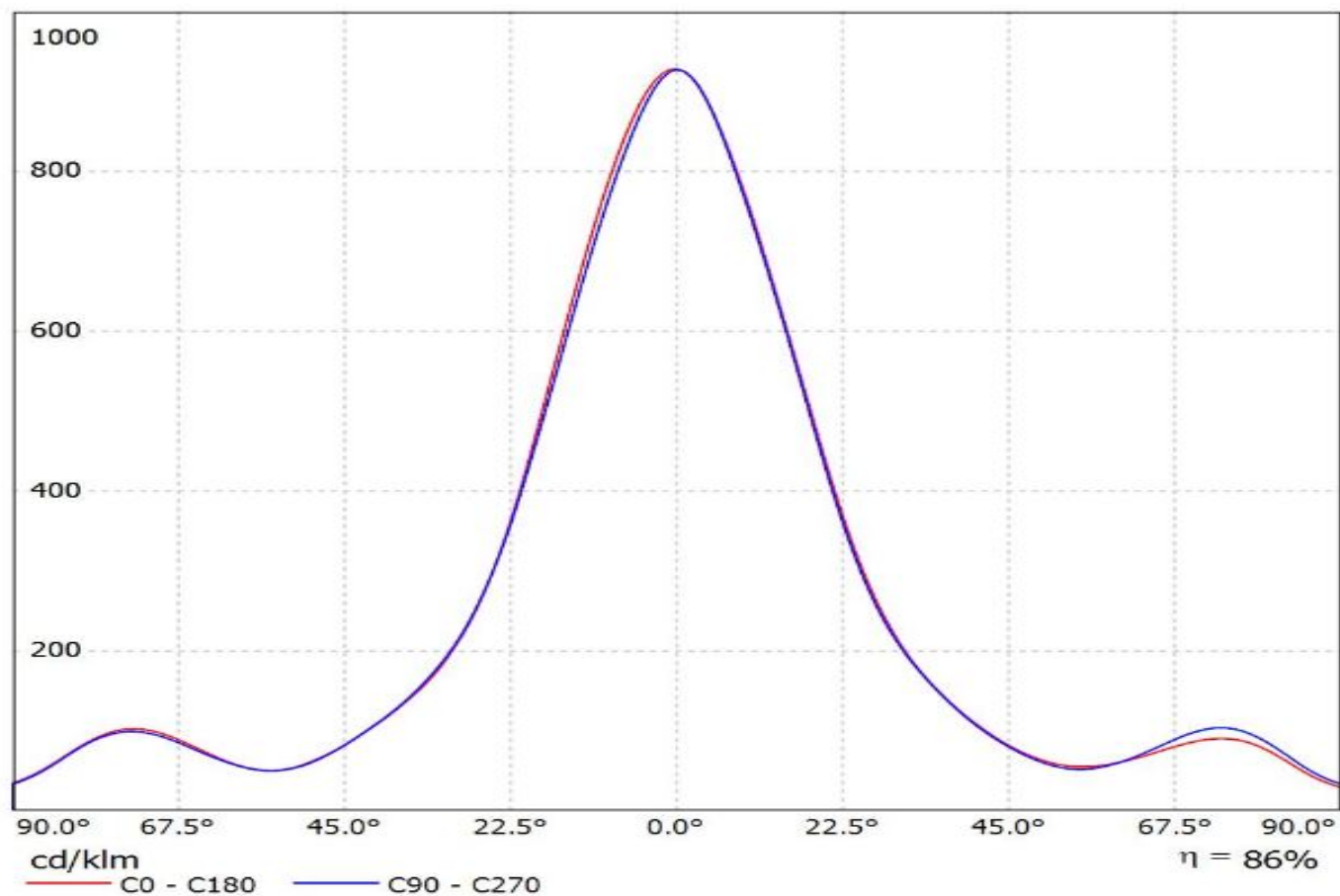
Luminaire: Ledil FN14720_STELLA-FRESNEL_(CXB1820)

Lamps: 1 x Cree_CXB1820_(CXB1820-40G-S2-N0H-00001)_1336.39lm@250mA_P=8.38315W_U=33.545V

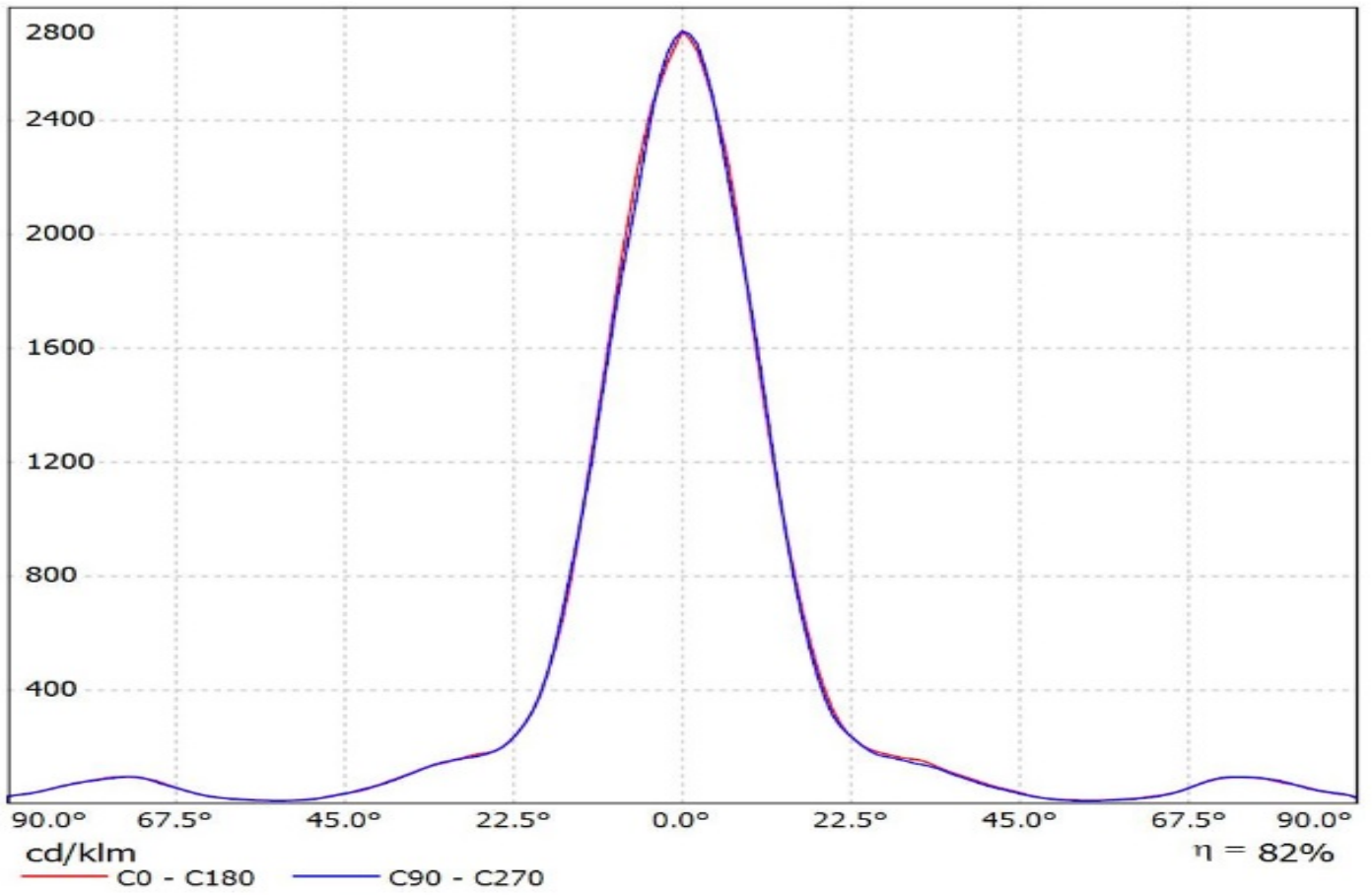


Luminaire: Ledil FN14720_STELLA-FRESNEL_(CoB_1216)

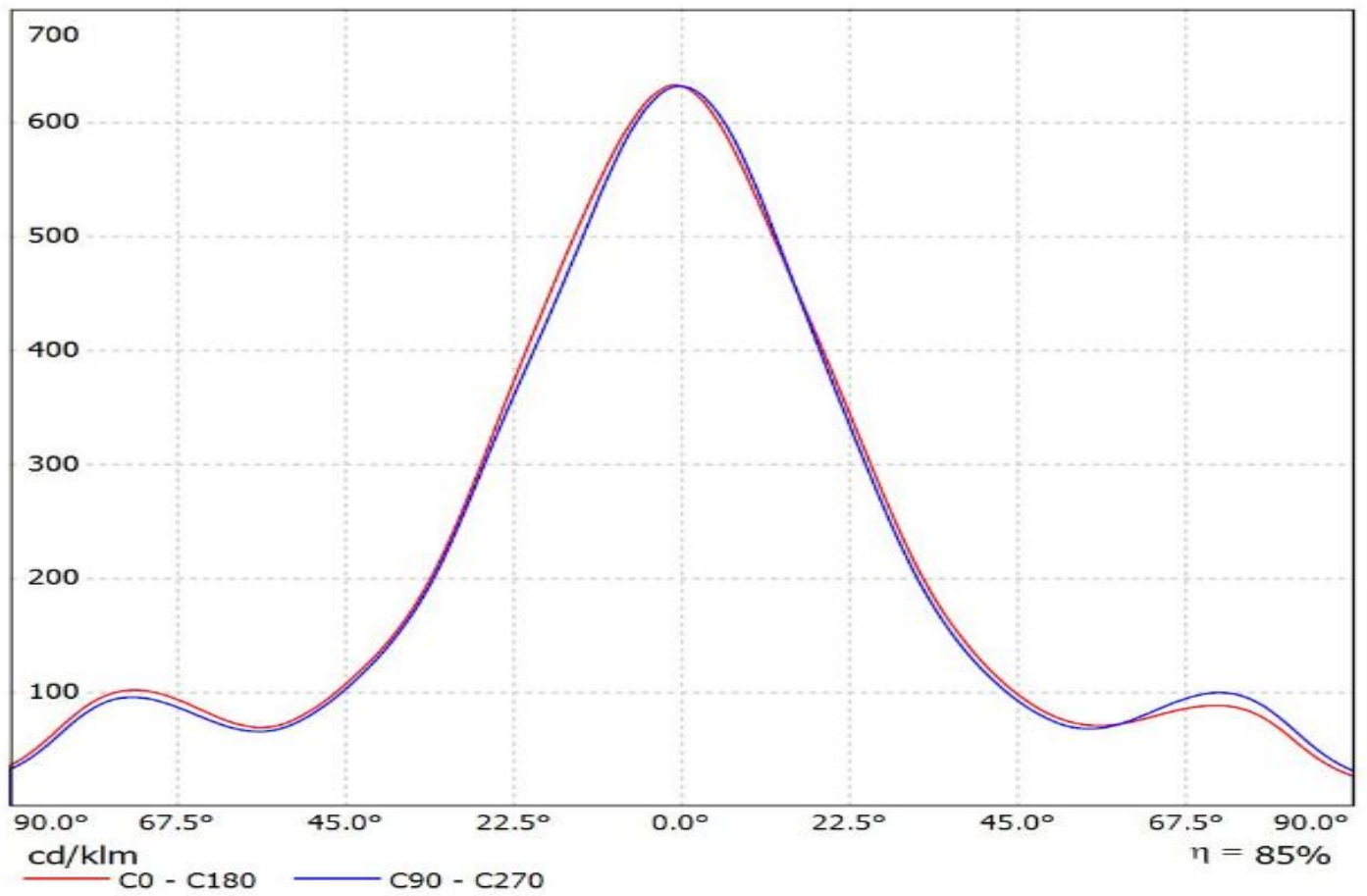
Lamps: 1 x Luxeon_CoB_1216_(L2C2-40801216E2300)_1468.12lm@250mA_P=7.9868W_η=0.25A



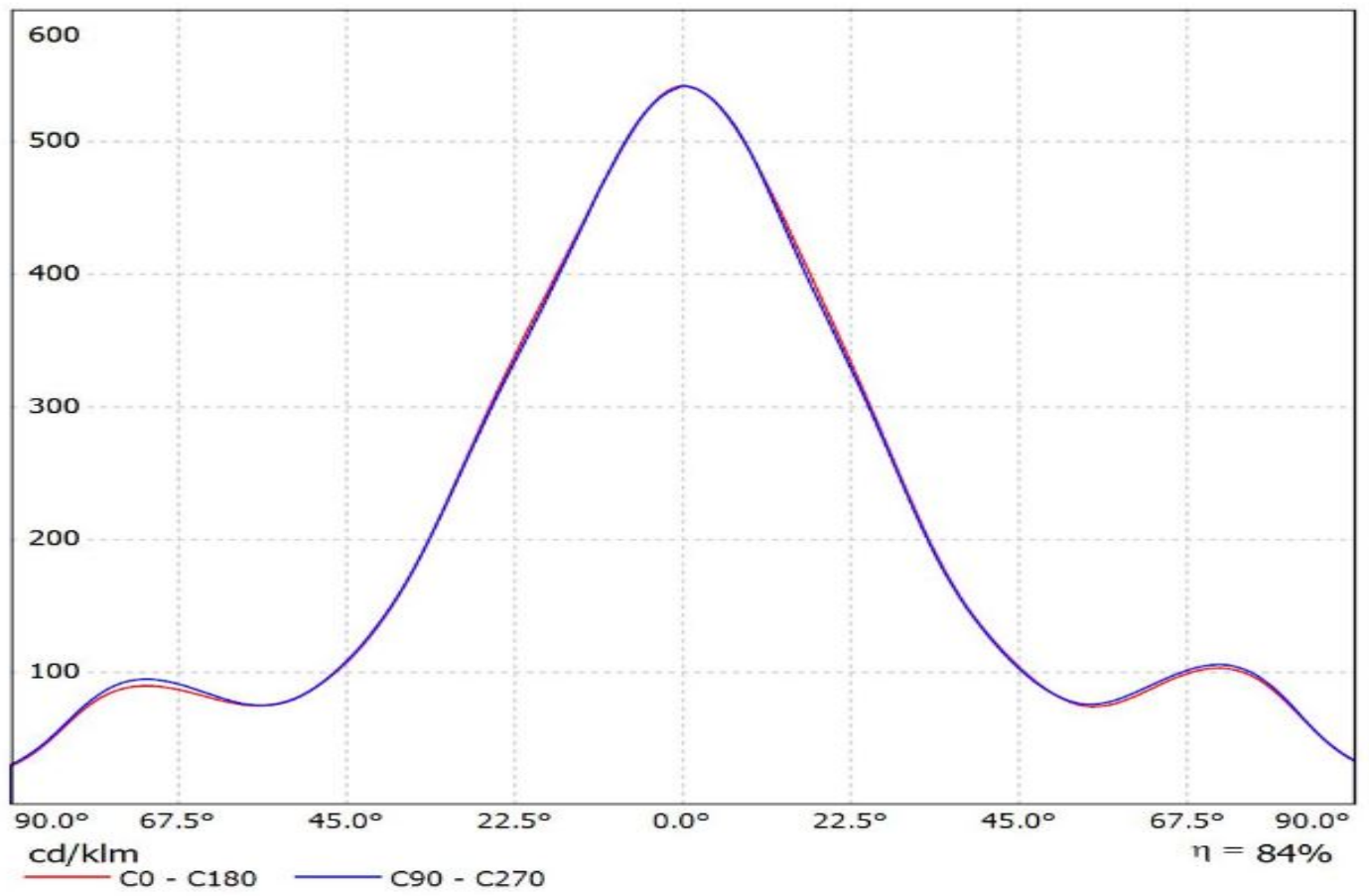
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Lamps: 1 x Lumileds Luxeon CoB 1208



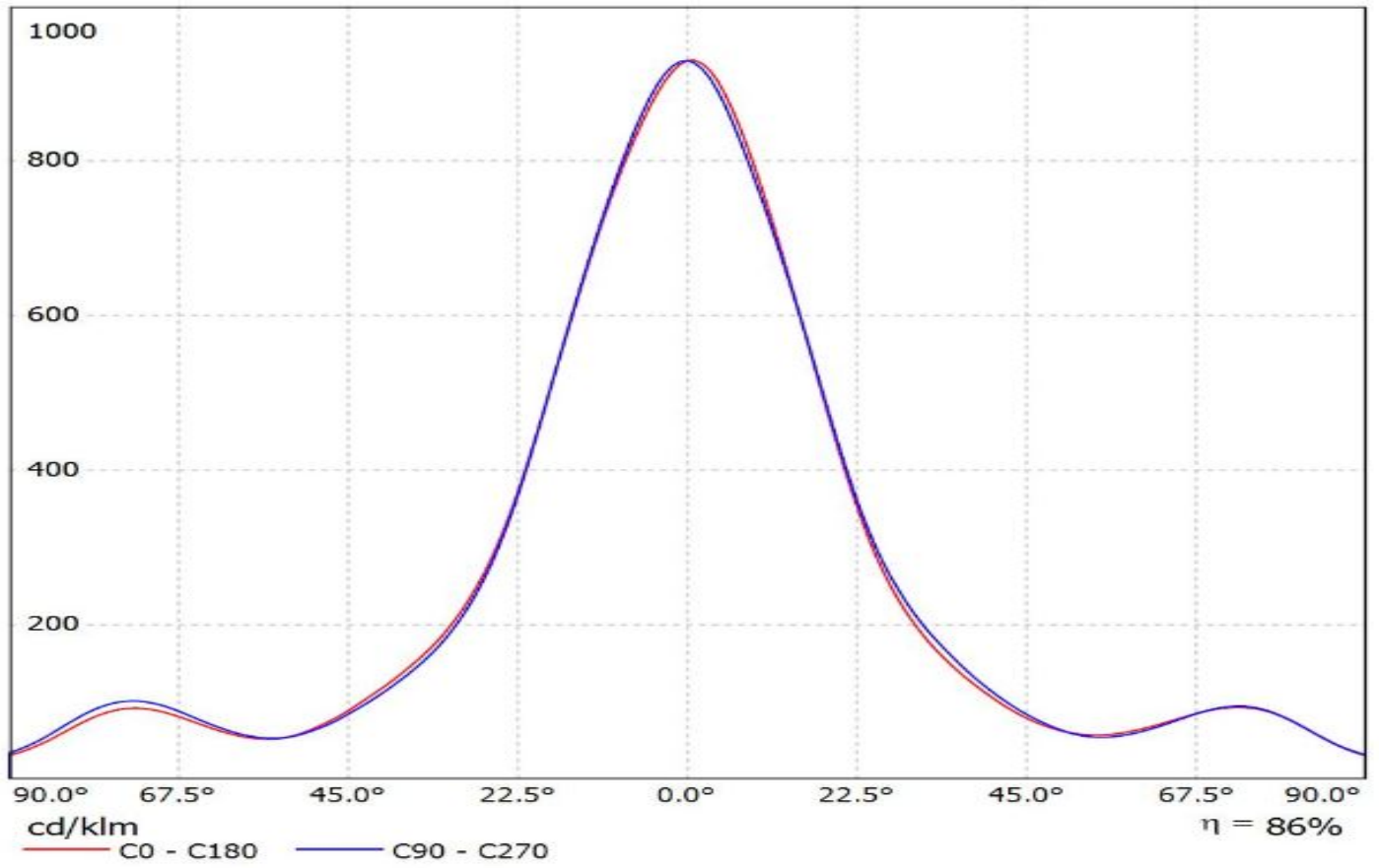
Luminaire: Ledil FN14720_STELLA-FRESNEL_(Luxeon_CoB_1321)
Lamps: 1 x Luxeon_CoB_1321_1620.6lm@250mA_P=8.55758W_I=0.25A



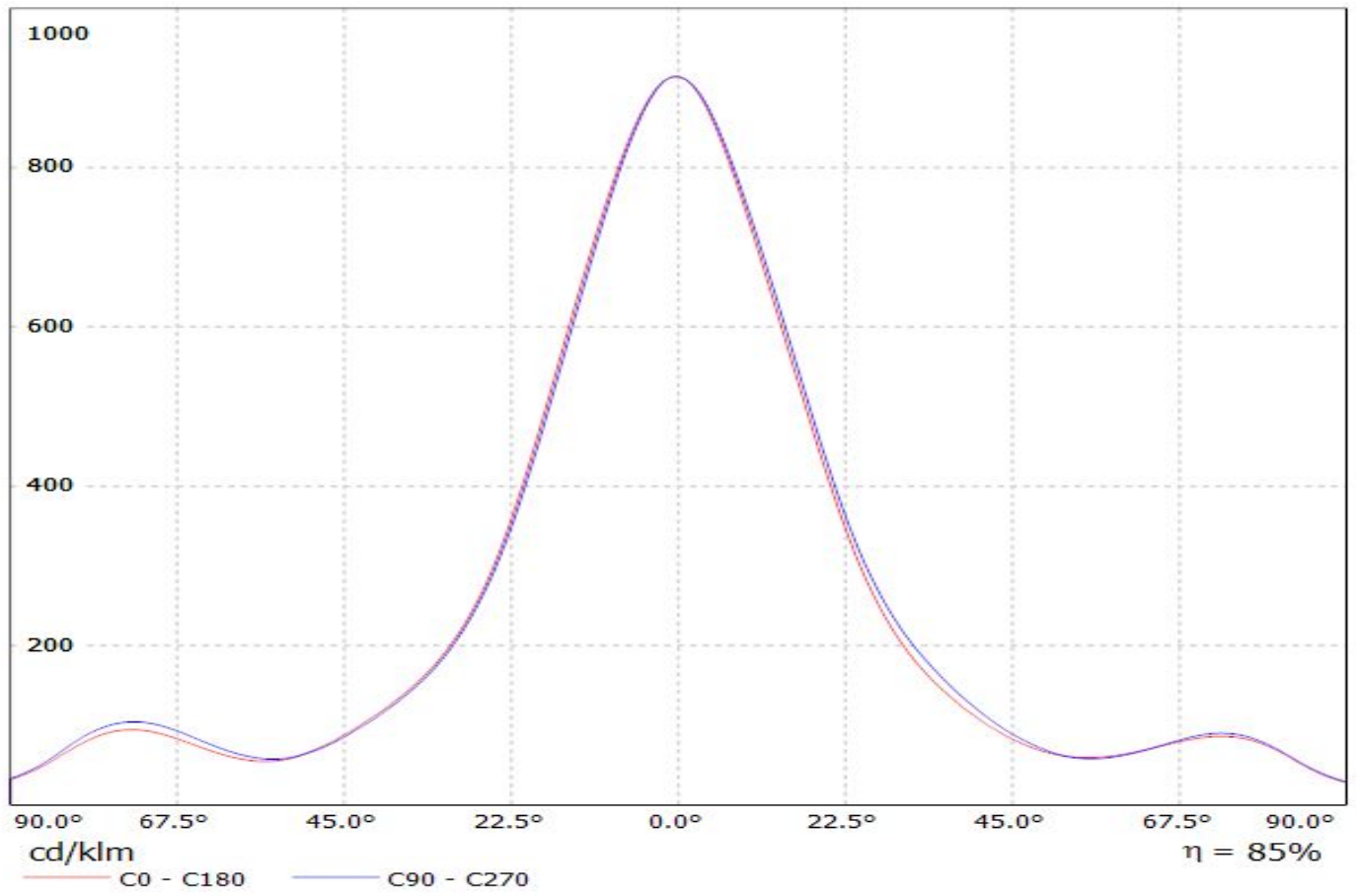
Luminaire: Ledil FN14720_STELLA-FRESNEL_(Luxeon_CoB_1825)
Lamps: 1 x Luxeon_CoB_1825_1853.66lm@250mA_P=8.55758W_I=0.25A



Luminaire: Ledil FN14720_STELLA-FRESNEL_(CXM-22_+BW)
Lamps: 1 x LUMINUS_CXM-22_+Bender&Wirth_431TypL3_1259.61lm@250mA_P=8.0332W_CCT=3000K_I=0.25A

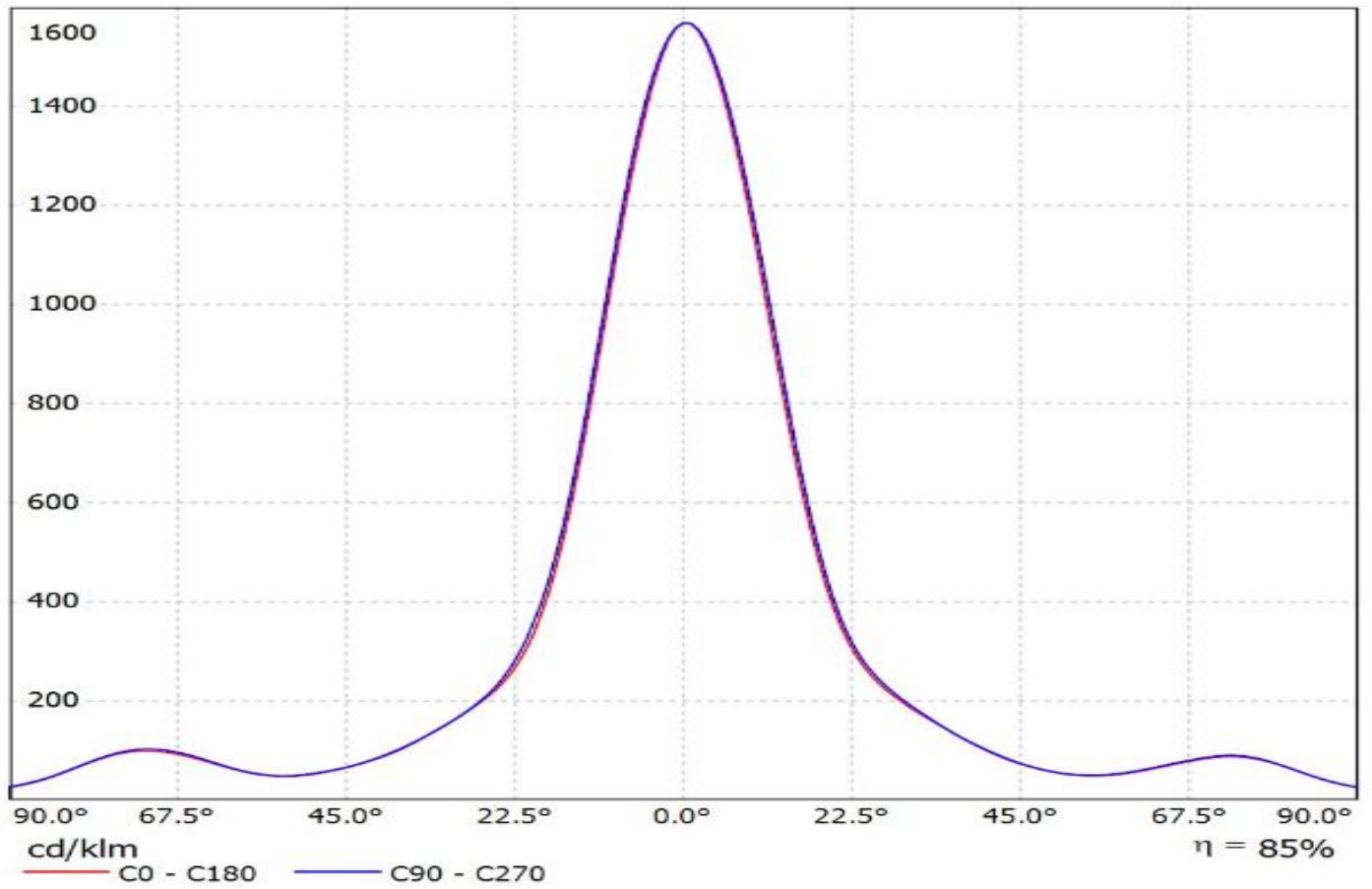


Luminaire: LEDiL Oy FN14720_STELLA-FRESNEL_(NFEWH306B-V2E)
Lamps: 1 x Nichia_NFEWH306B-V2E_2183.86lm@250mA_P=11.9135W_U=47.692V



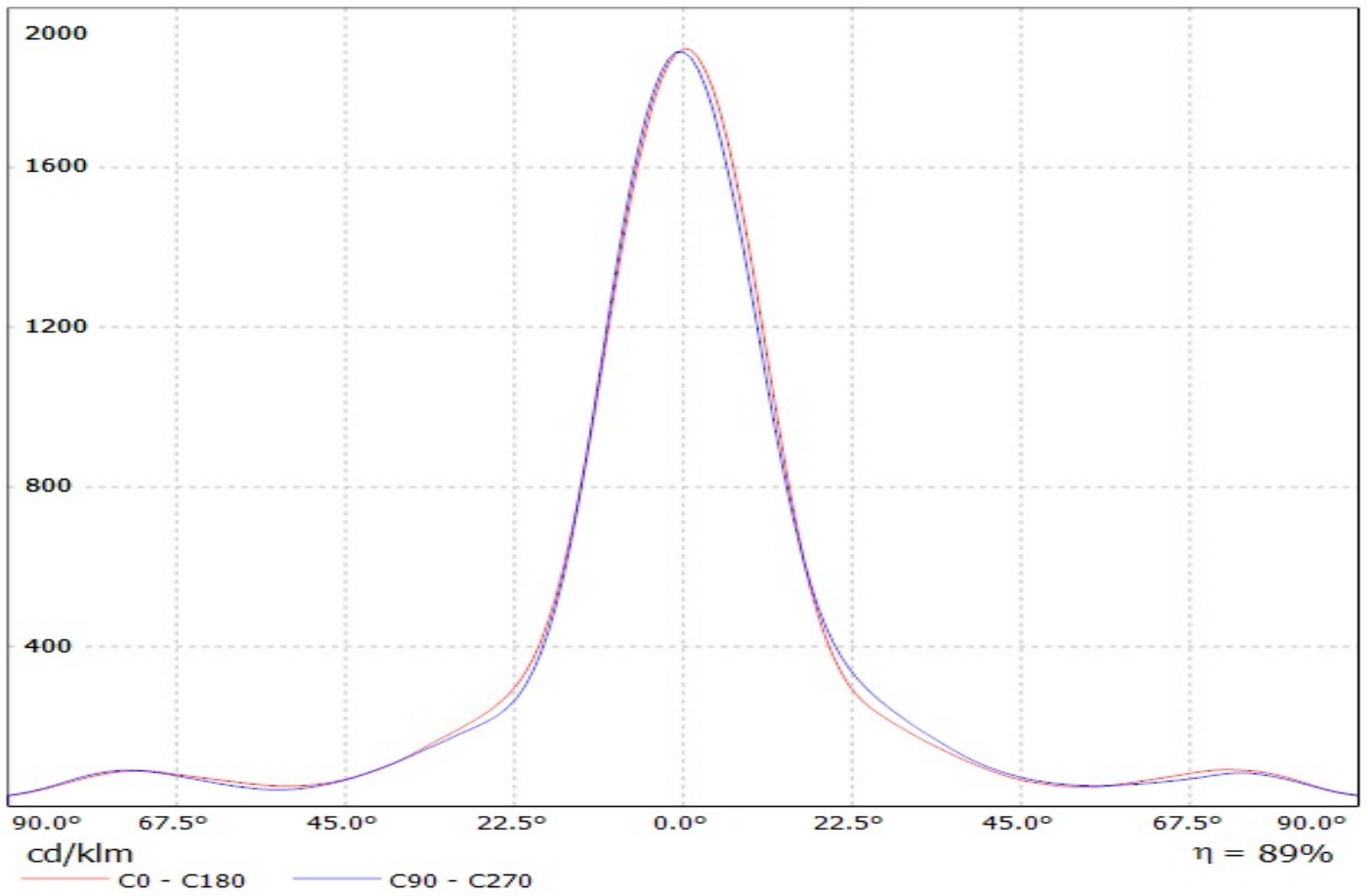
Luminaire: Ledil FN14720_STELLA-FRESNEL_(NFDLJ130B)

Lamps: 1 x Nichia_NFDLJ130B_1399.61m@250mA_CCT=4000K_P=8.82847W_U=35.328V

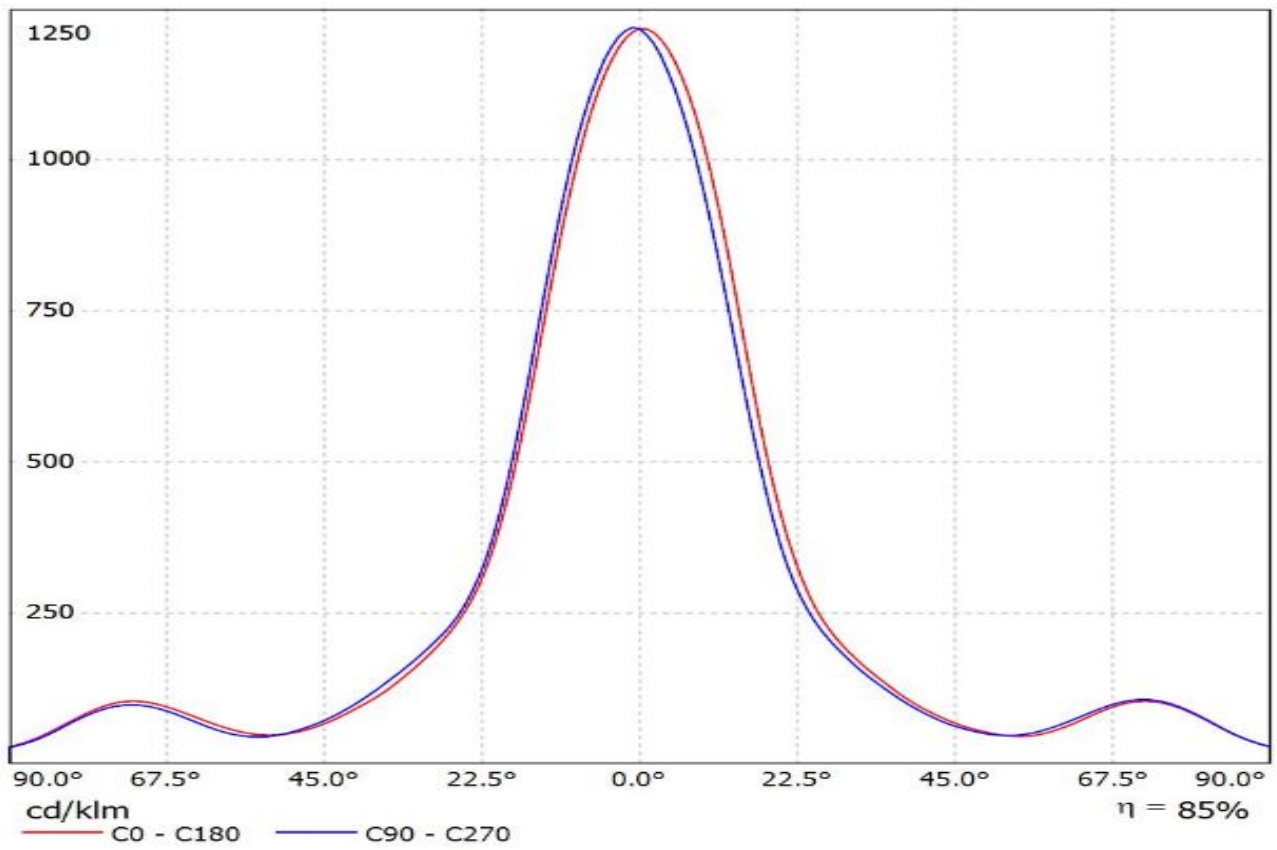


Luminaire: LEDiL Oy FN14720_STELLA-FRESNEL_(Soleriq_P13)_Cav1

Lamps: 1 x Osram_Soleriq_P13_(GQ_MAGMB1.EM)_922.464lm@250mA_P=8.69804W_I=0.2498A

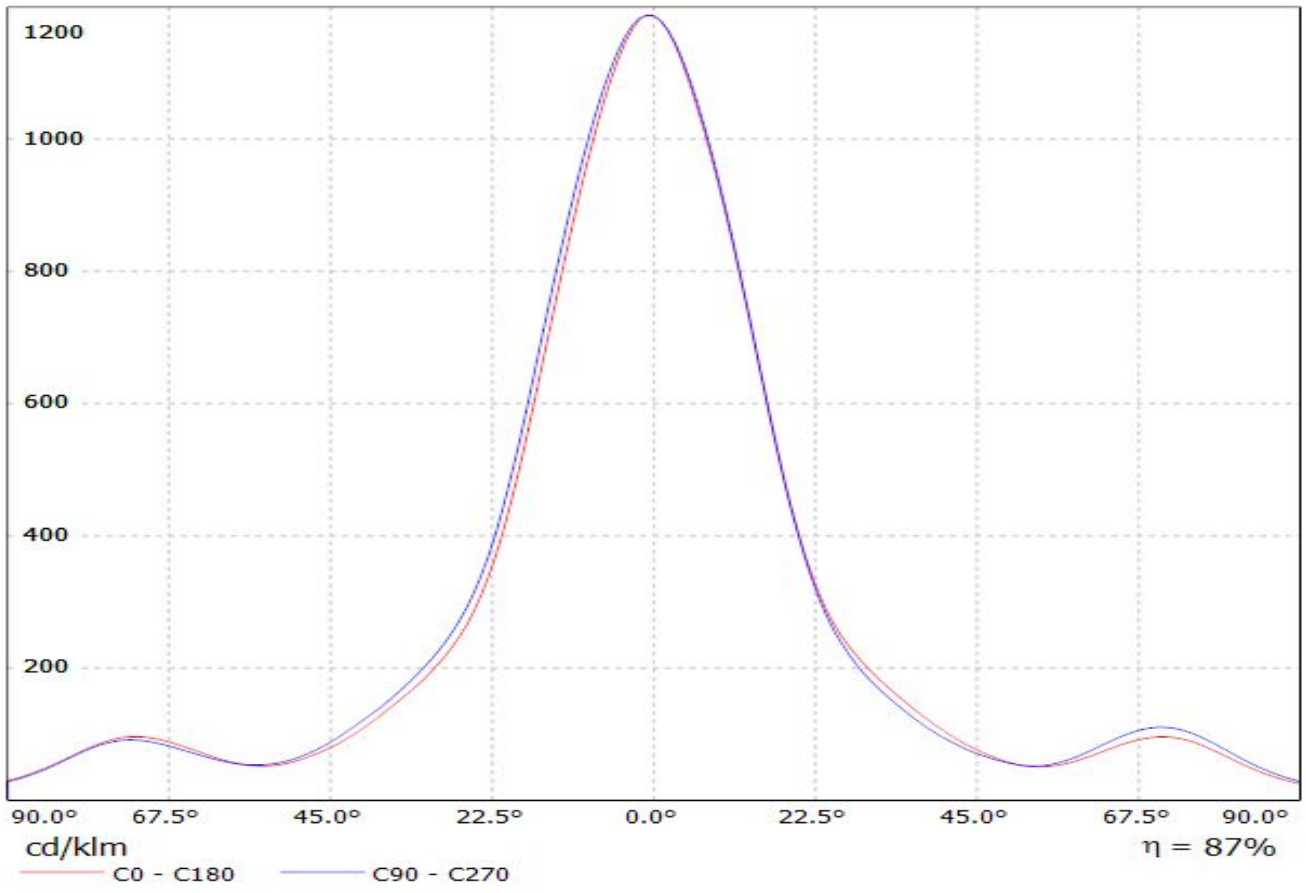


Luminaire: Ledil FN14720_STELLA-FRESNEL_(Soleriq_S19)
Lamps: 1 x Osram_Soleriq_S19_(GW-KAHJB1.EM)_1487.02lm@250mA_P=10.562W_I=0.25A



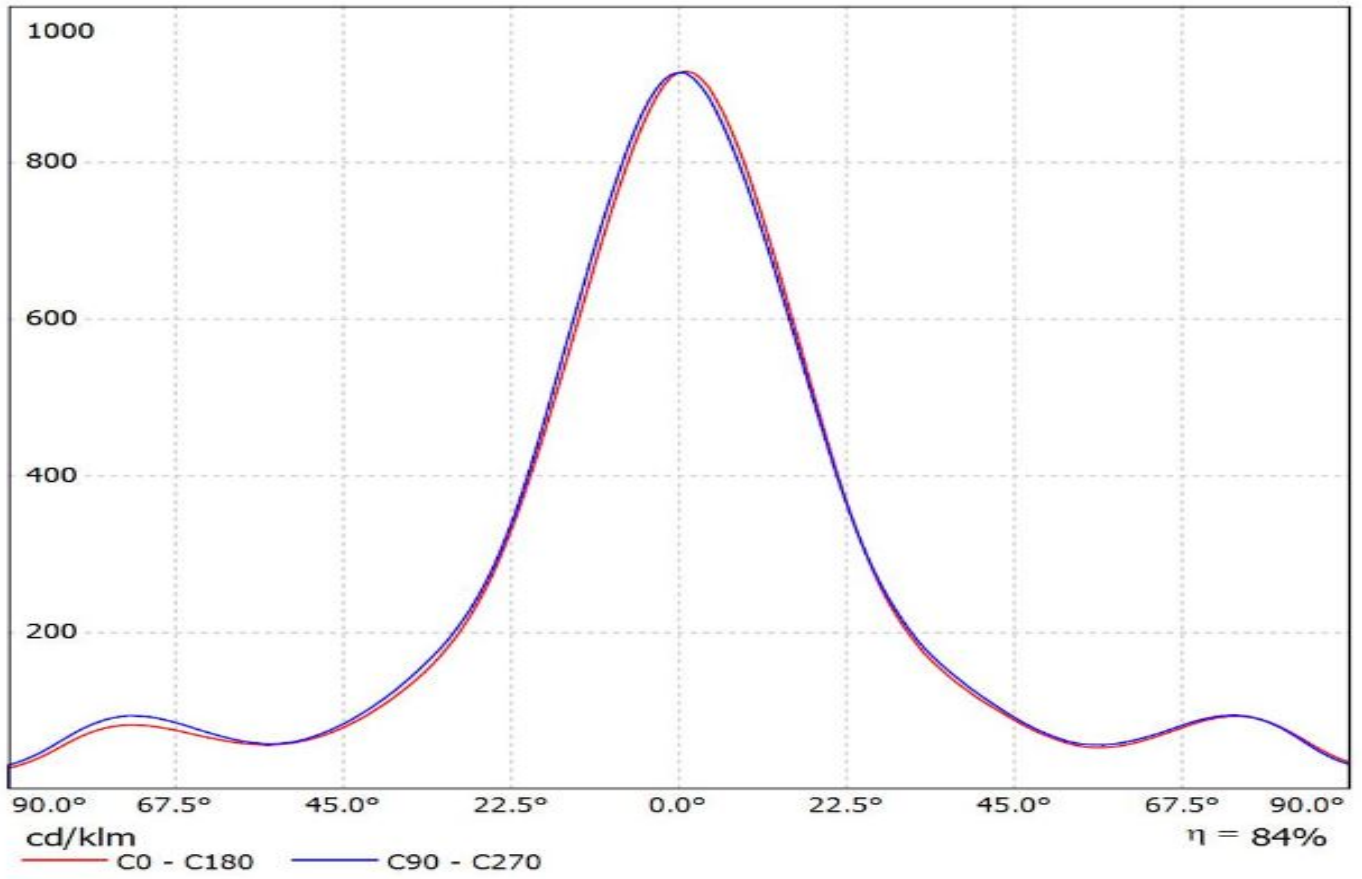
Luminaire: LEDiL Oy FN14720_STELLA-FRESNEL_(SLM_1211_L19_G6)

Lamps: 1 x Philips_Fortimo_SLM_1211_L19_G6_Poke-In_1152.17lm@250mA_P=8.10051W_I=0.25A



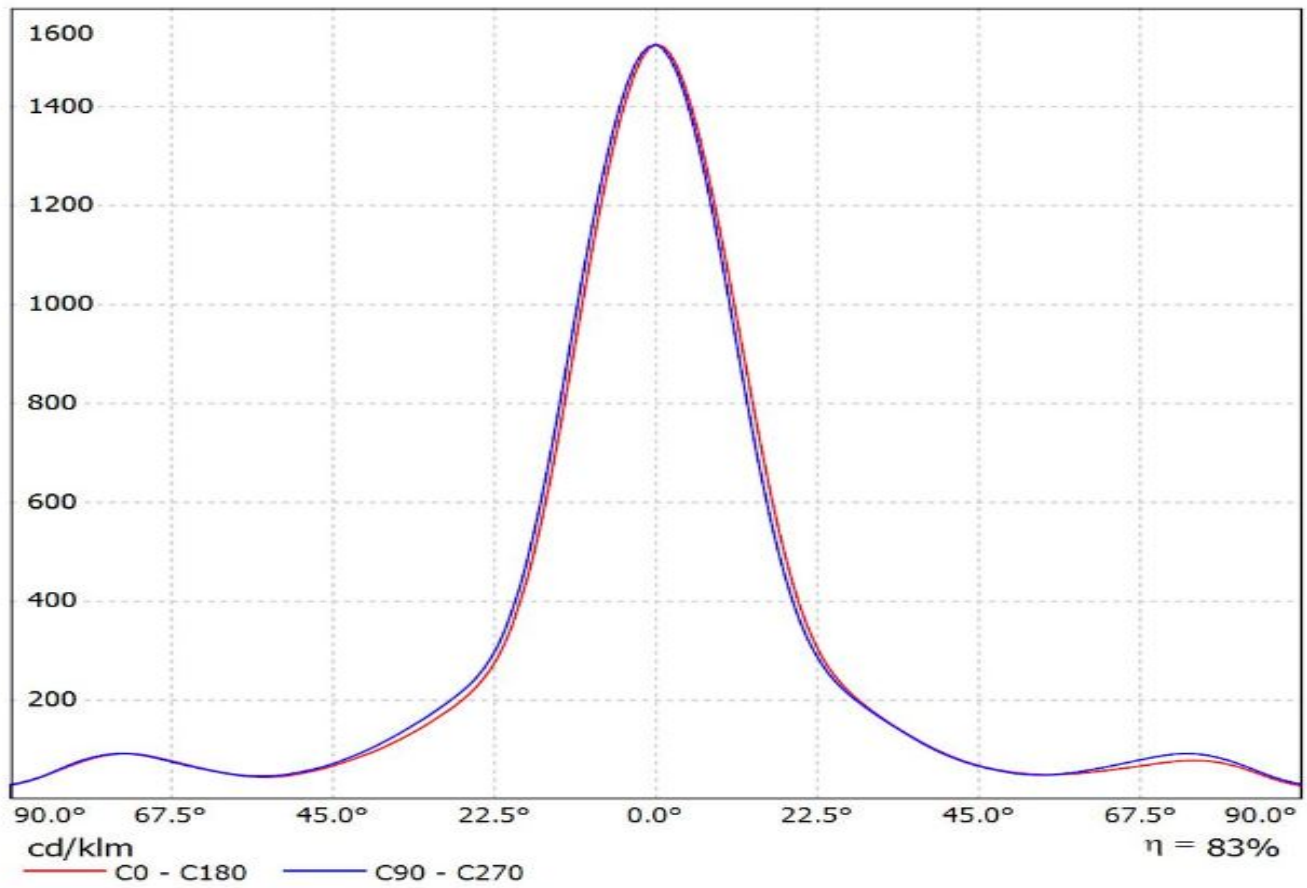
Luminaire: Ledil FN14720_STELLA-FRESNEL_(COB_D_LES_22mm)

Lamps: 1 x Samsung_COB_D_LES_22mm_(LC040D)_1538.83lm@250mA_4000K_P=8.04778W_I=0.25A



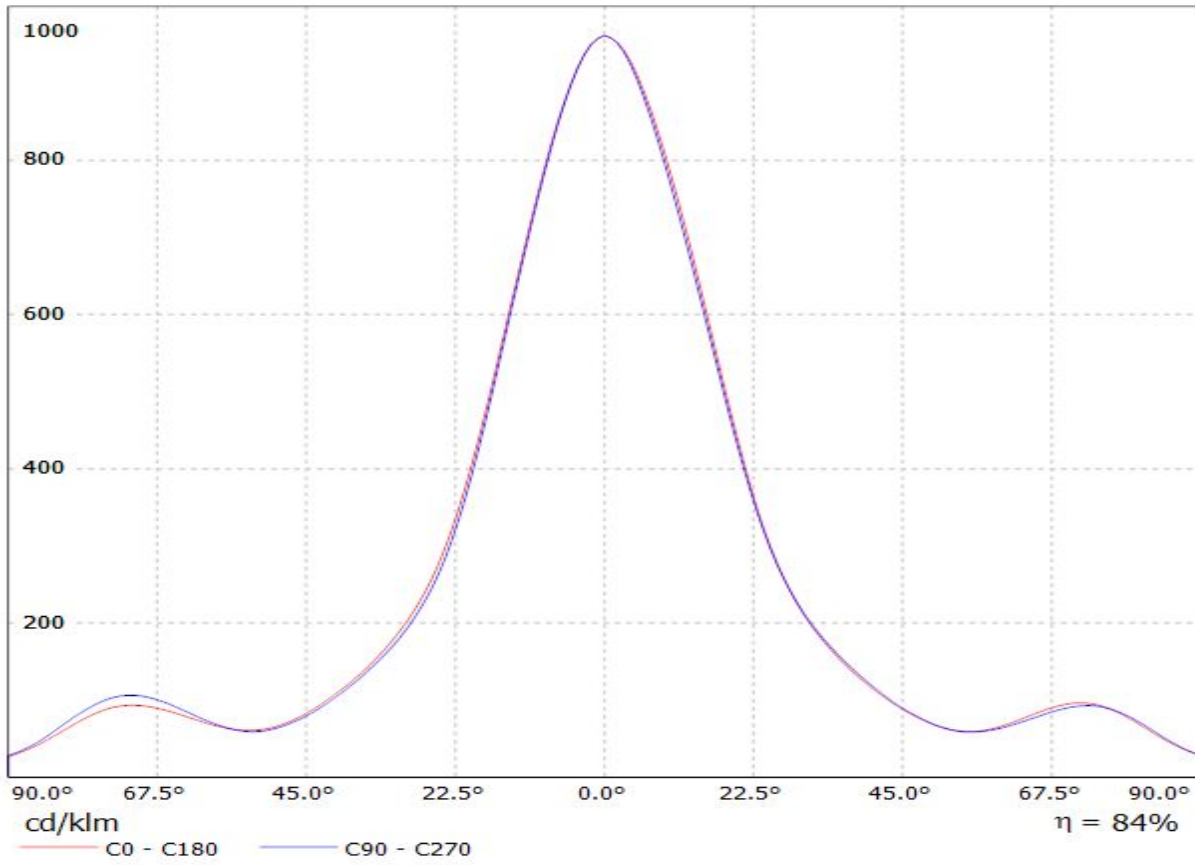
Luminaire: Ledil FN14720_STELLA-FRESNEL_(COB_D_LES_14.5mm)

Lamps: 1 x Samsung_COB_D_LES_14.5mm_(LC026D)_1269.42lm@250mA_3000K_P=8.14199W_I=0.25A

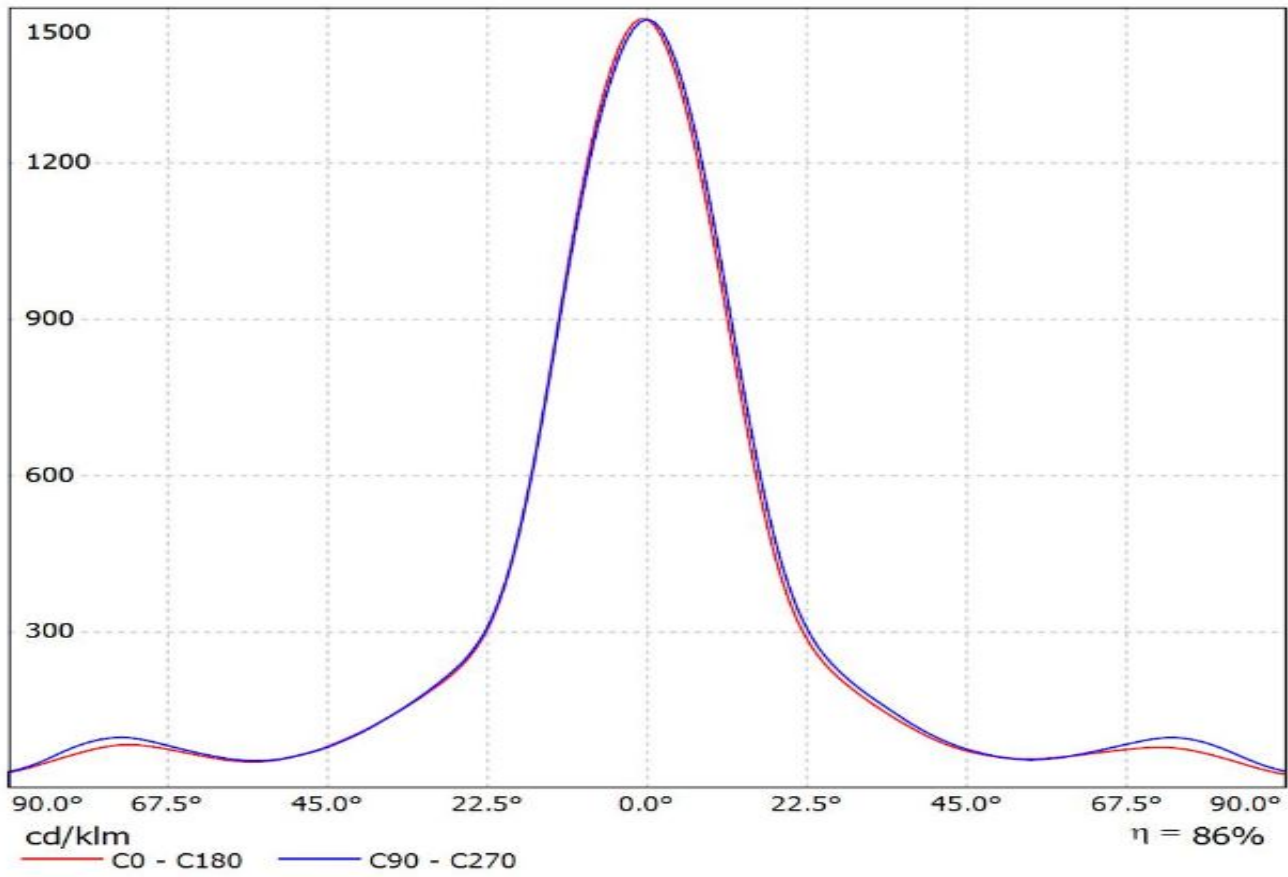


Luminaire: Ledil FN14720_STELLA-FRESNEL_(MJT_80W_Les22)_+Ideal_50-2204CT

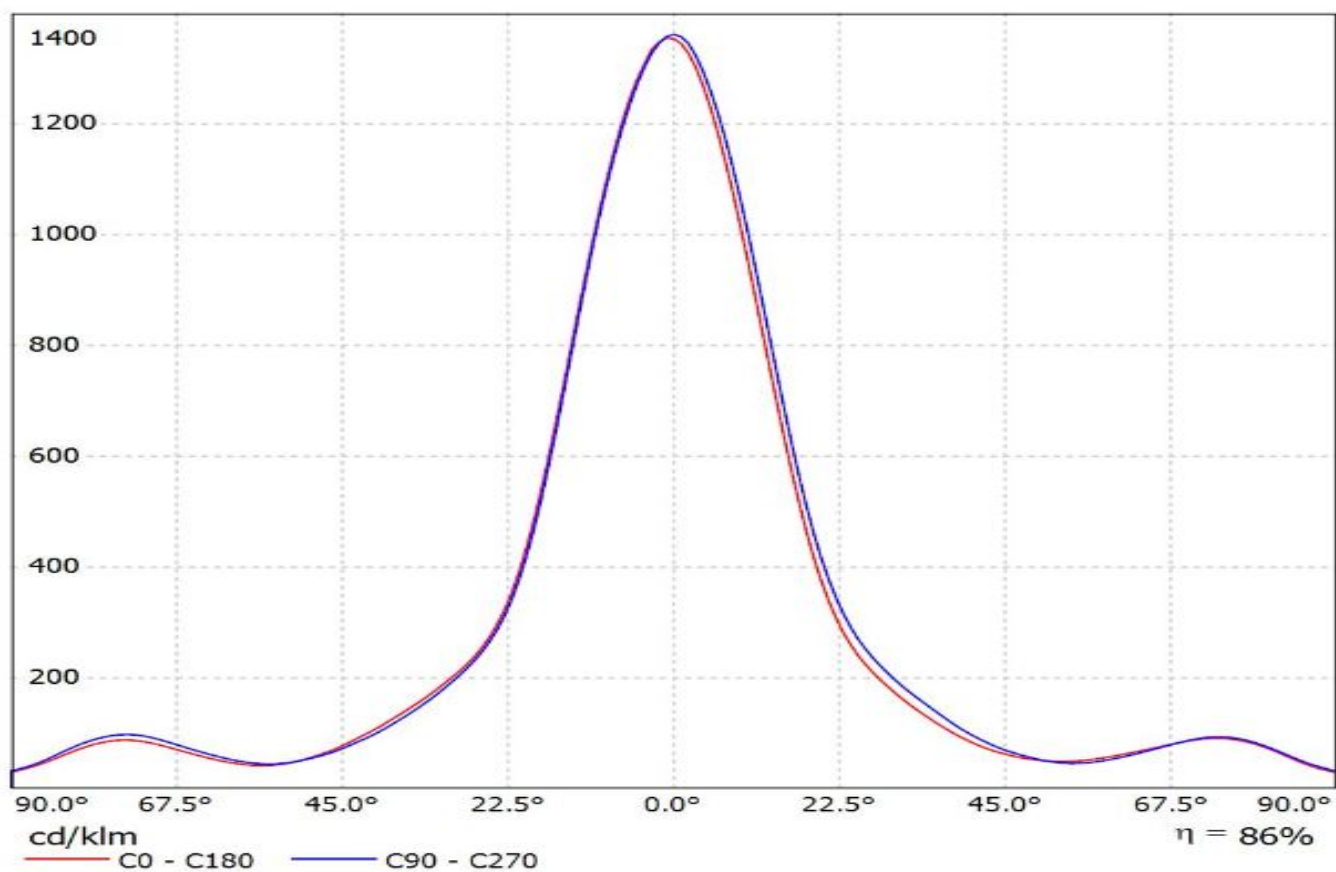
Lamps: 1 x Seoul_MJT_80W_Les22mm_(SAWx22AAA)_+Ideal_50-2204CT_2497.65lm@250mA_P=13.3118W_I=0.25A



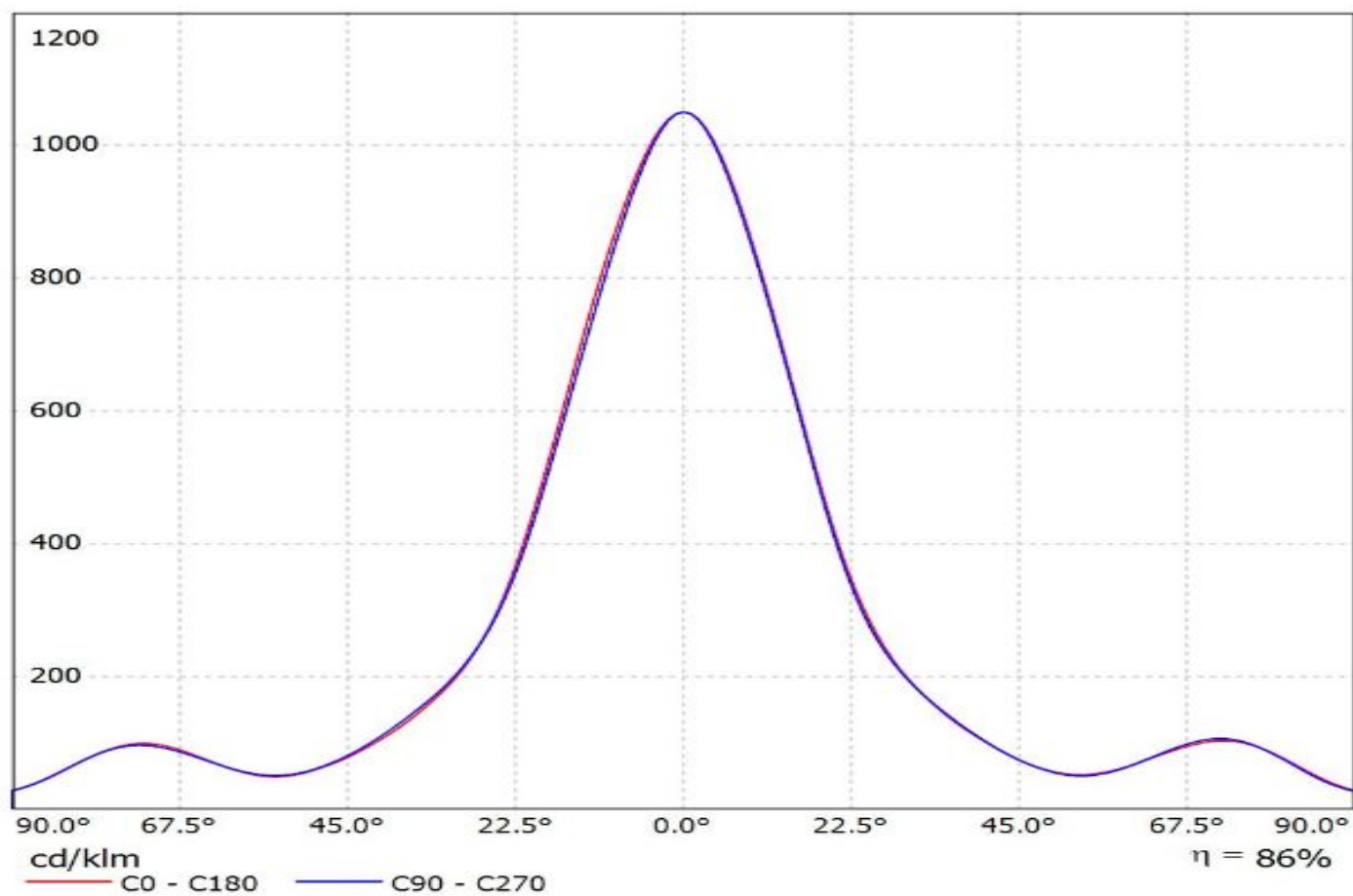
Luminaire: Ledil FN14720_STELLA-FRESNEL_(MJT_30W_Les14,5)_+50-2103CT
Lamps: 1 x Seoul_MJT_30W_Les14,5mm_(SAWx1566A)_50-2103CT_1339.05lm@250mA_P=8.2275W_I=0.25A



Luminaire: LEDiL Oy FN14720_STELLA-FRESNEL_(SLE-G5_LES-19)
Lamps: 1 x Tridonic_SLE-G5_LES-19_1189.9lm@250mA_P=8.3068W_I=0.250A

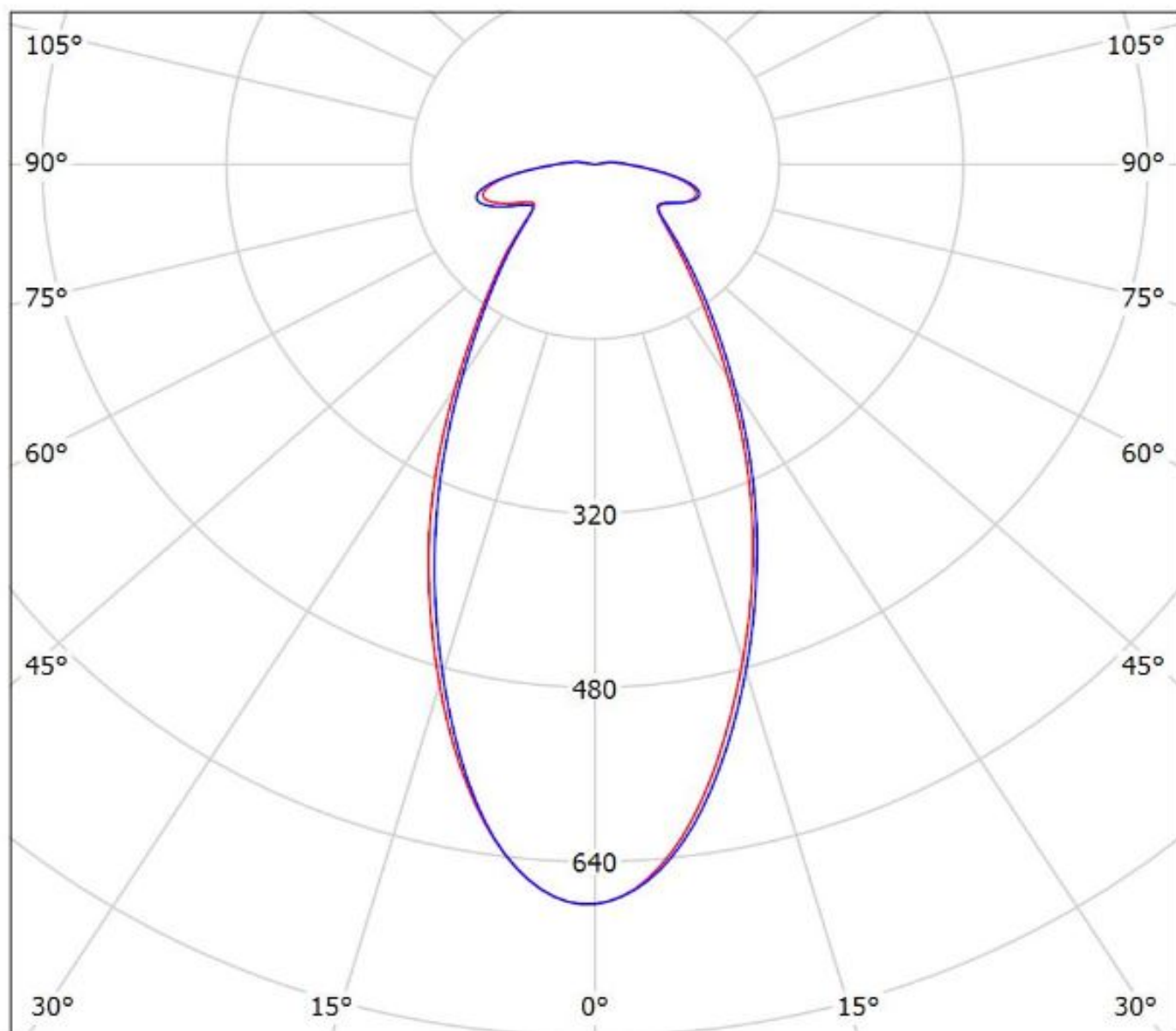


Luminaire: LEDiL Oy FN14720_STELLA-FRESNEL_(SLE-G5_LES-23)
Lamps: 1 x Tridonic_SLE-G5_LES-23_1408.28lm@250mA_P=8.1392W_I=0.250A



Luminaire: Ledil FN14720_STELLA-FRESNEL_(Vero29)

Lamps: 1 x Bridgelux_Vero29_(30-E10K0L-Y2)_1467.5lm@250mA_P=8.8850W_I=0.25A



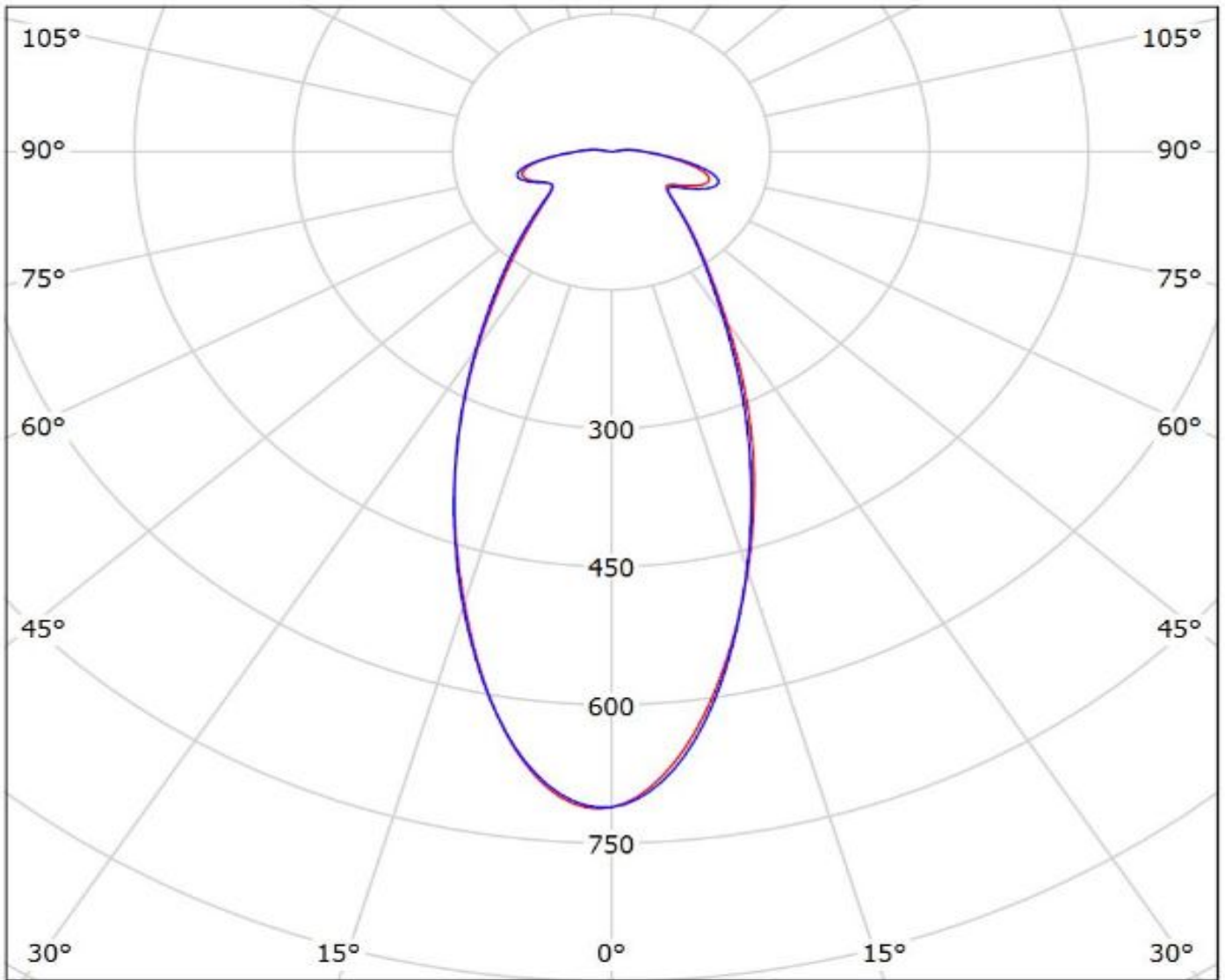
cd/klm

— C0 - C180

— C90 - C270

η = 87%

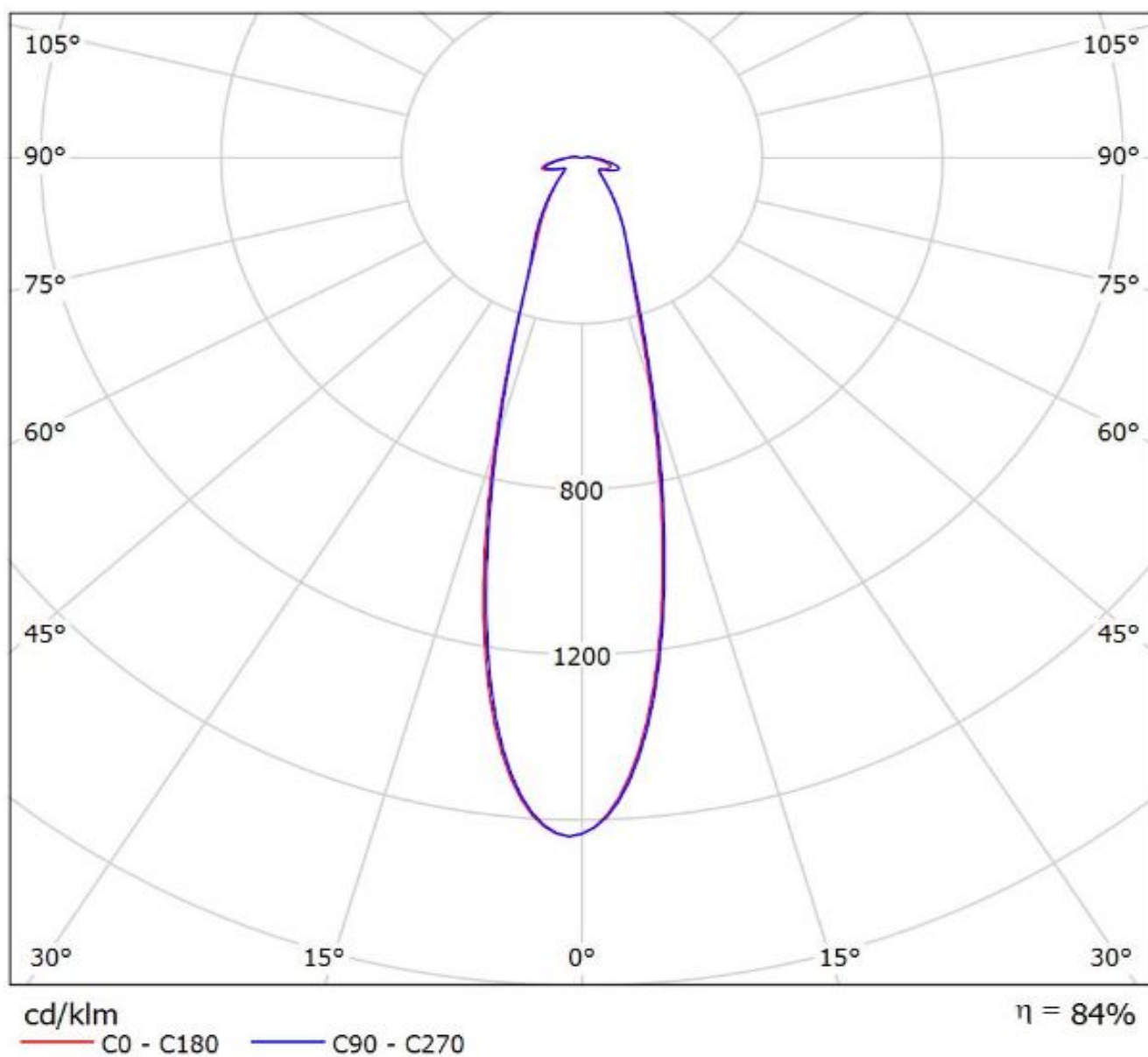
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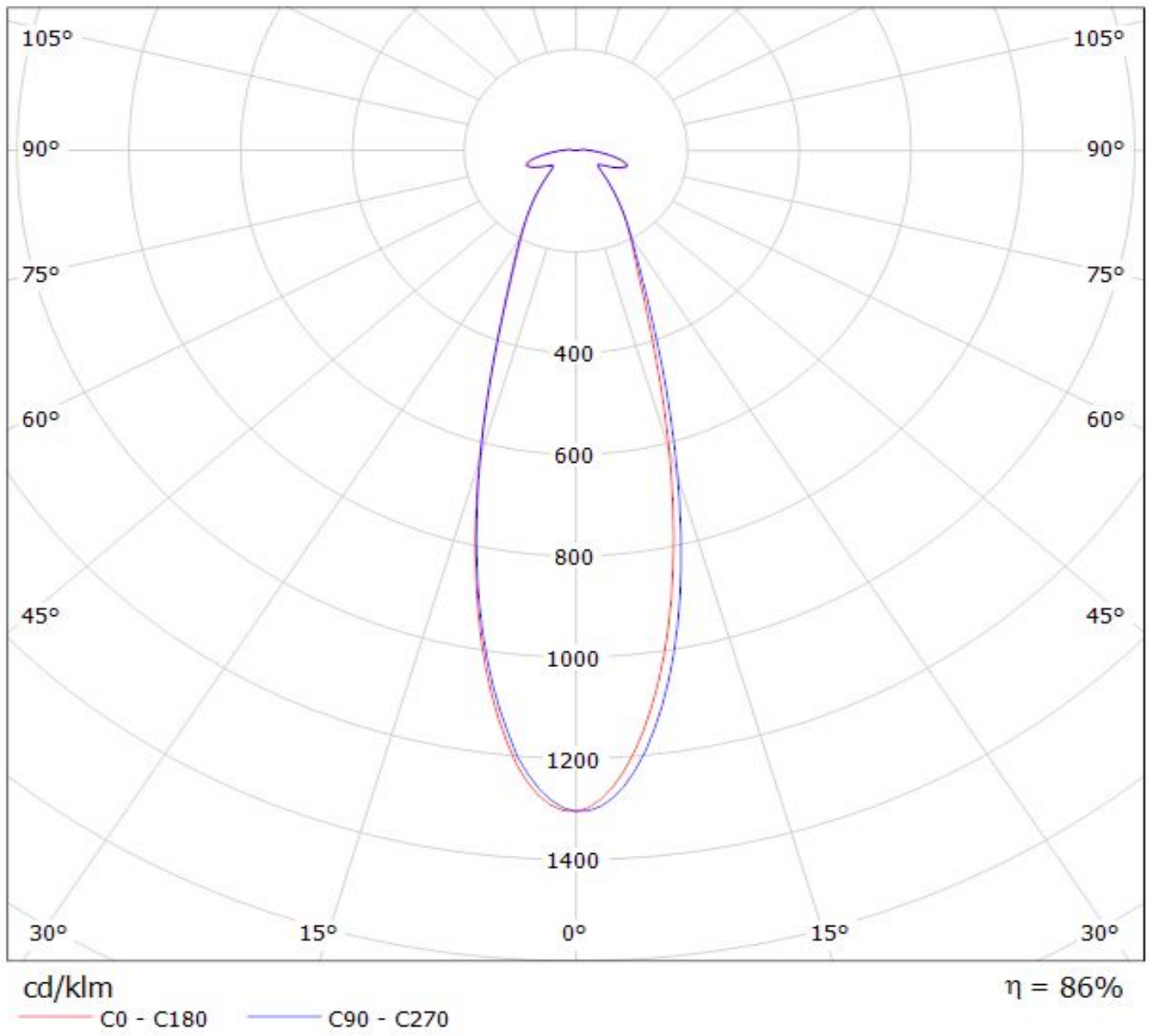
cd/klm
— C0 - C180 — C90 - C270

$\eta = 87\%$

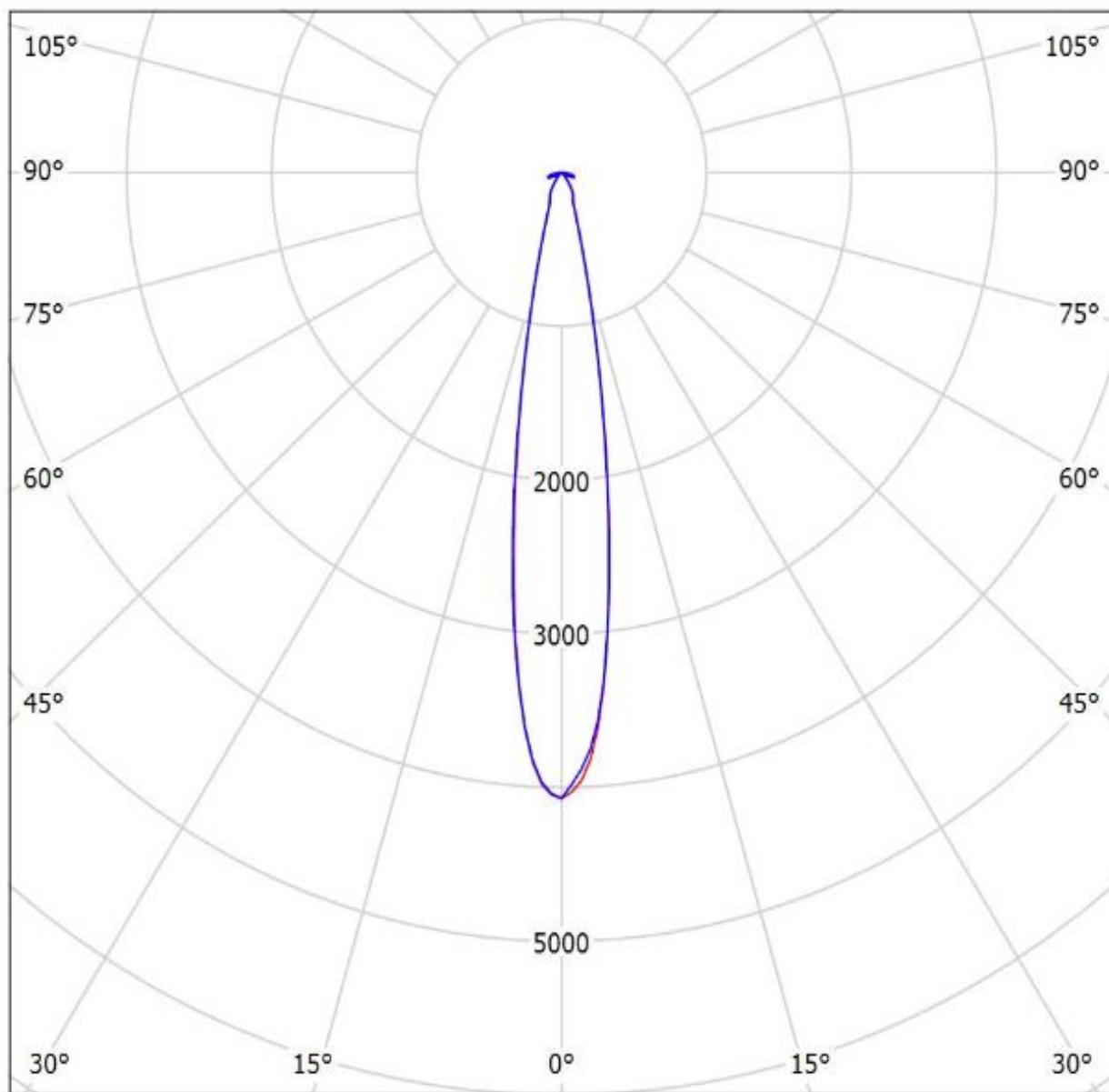
Luminaire: Ledil FN14720_STELLA-FRESNEL_Vero_13_SE)
Lamps: 1 x Bridgelux_Vero_13_SE_(BXRC-30E2000-C-73-SE)
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Luminaire: LEDiL Oy FN14720_STELLA-FRESNEL_(VERO18_SE)
Lamps: 1 x Bridgelux_VERO18_SE_(BXRC-30E4000-C-73-SE)
_1335.46lm@250mA_P=7.9961W_I=0.25A



Luminaire: Ledil Oy FN14720_STELLA-FRESNEL+_Bender+Wirth 434 TypL1_BRIDGELUX_V10_Gen7_SIMULATED
Lamps: 1 x BRIDGELUX V10 Gen7

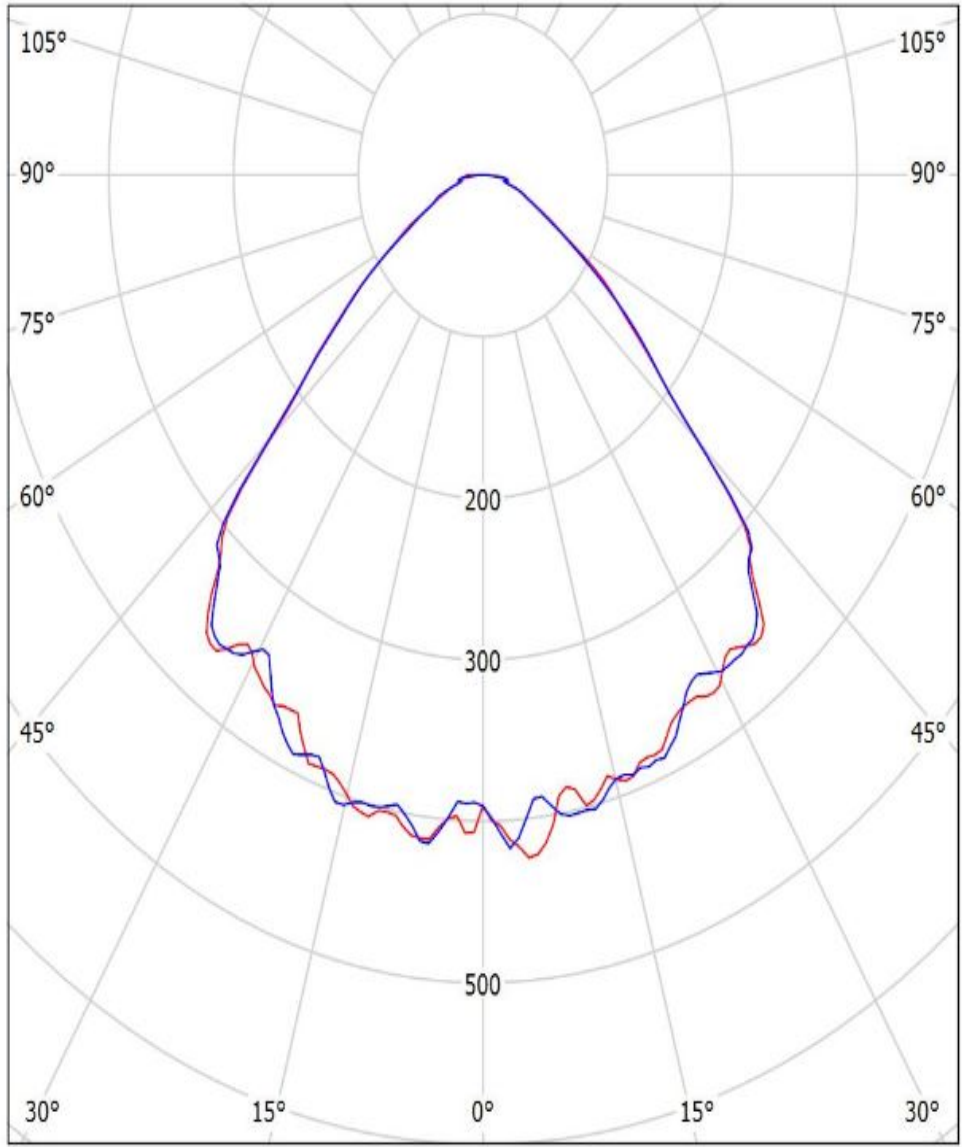


cd/klm

— C0 - C180 — C90 - C270

$\eta = 85\%$

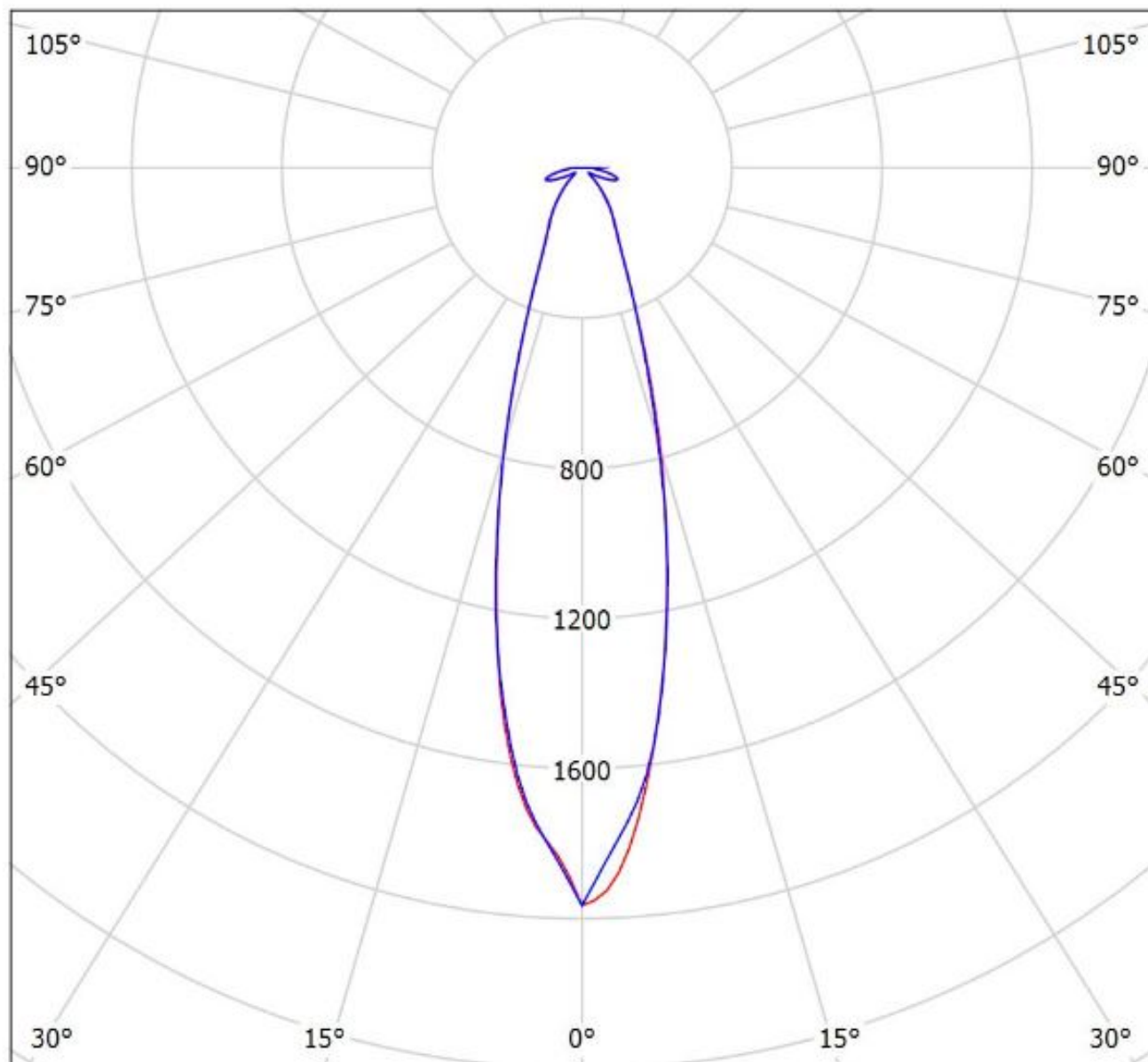
Luminaire: Ledil Oy FN14720_STELLA-FRESNEL_Bridgelux_V22_Gen7_SIMULATED FN14720_STELLA-FRESNEL_Bridgelux_V22_Gen7_SIMULATED
Lamps: 1 x FN14720_STELLA-FRESNEL_Bridgelux_V22_Gen7_SIMULATED



cd/klm
— C0 - C180 — C90 - C270

$\eta = 94\%$

Luminaire: Ledil Oy FN14720_STELLA-FRESNEL_+_BJB_47_319_2350_BRIDGELUX_V18_Gen7_SIMULATED
Lamps: 1 x BRIDGELUX V18 Gen7

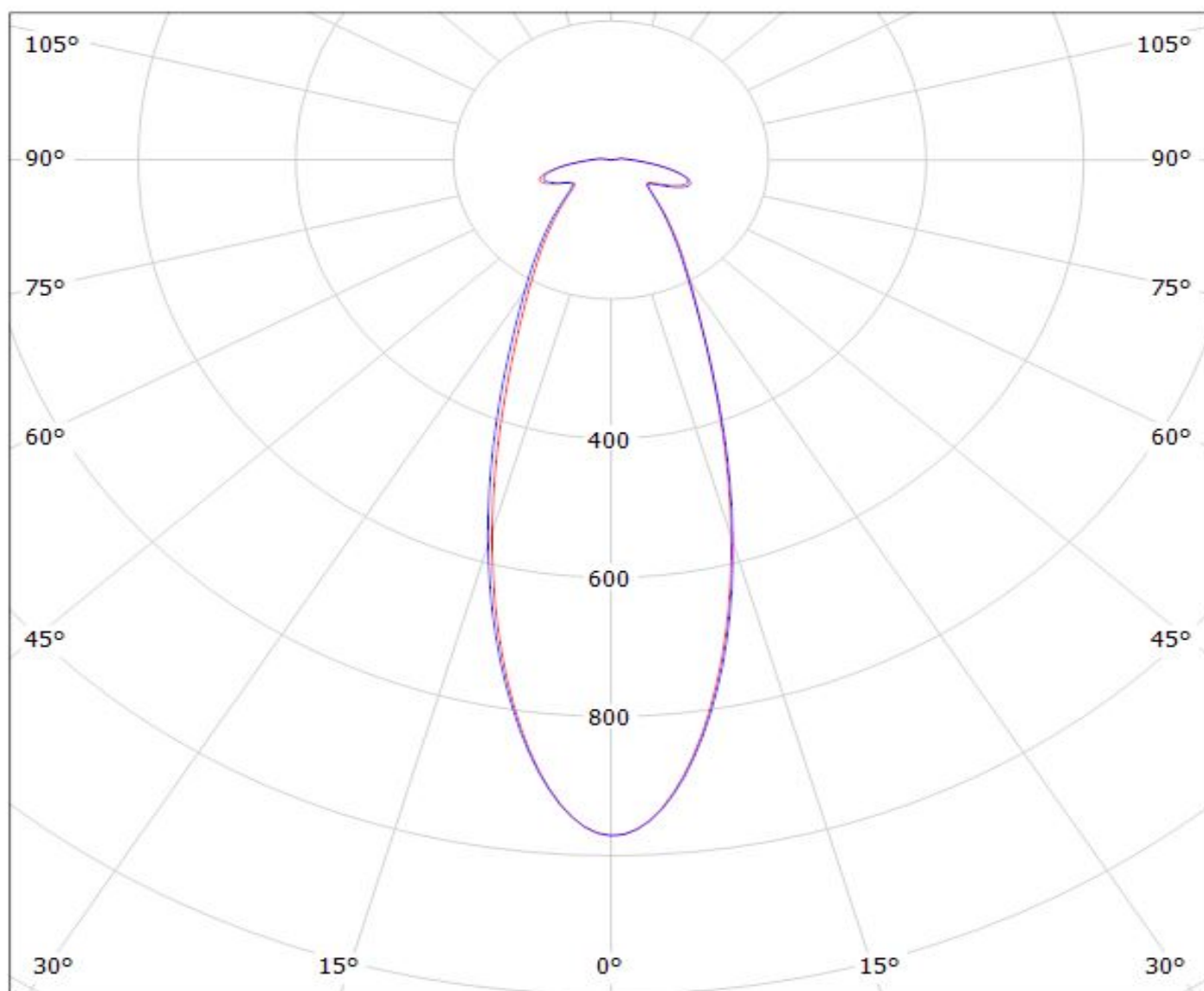


cd/klm

— C0 - C180 — C90 - C270

$\eta = 85\%$

Luminaire: LEDiL Oy FN14720-STELLA-FRESNEL_(V22_Gen7+BW)
Lamps: 1 x Bridgelux_V22_Gen7_(BXRE-30E6500-B)
+BW431_TypZ1_2036.72lm@250mA_P=11.891W_I=0.250A



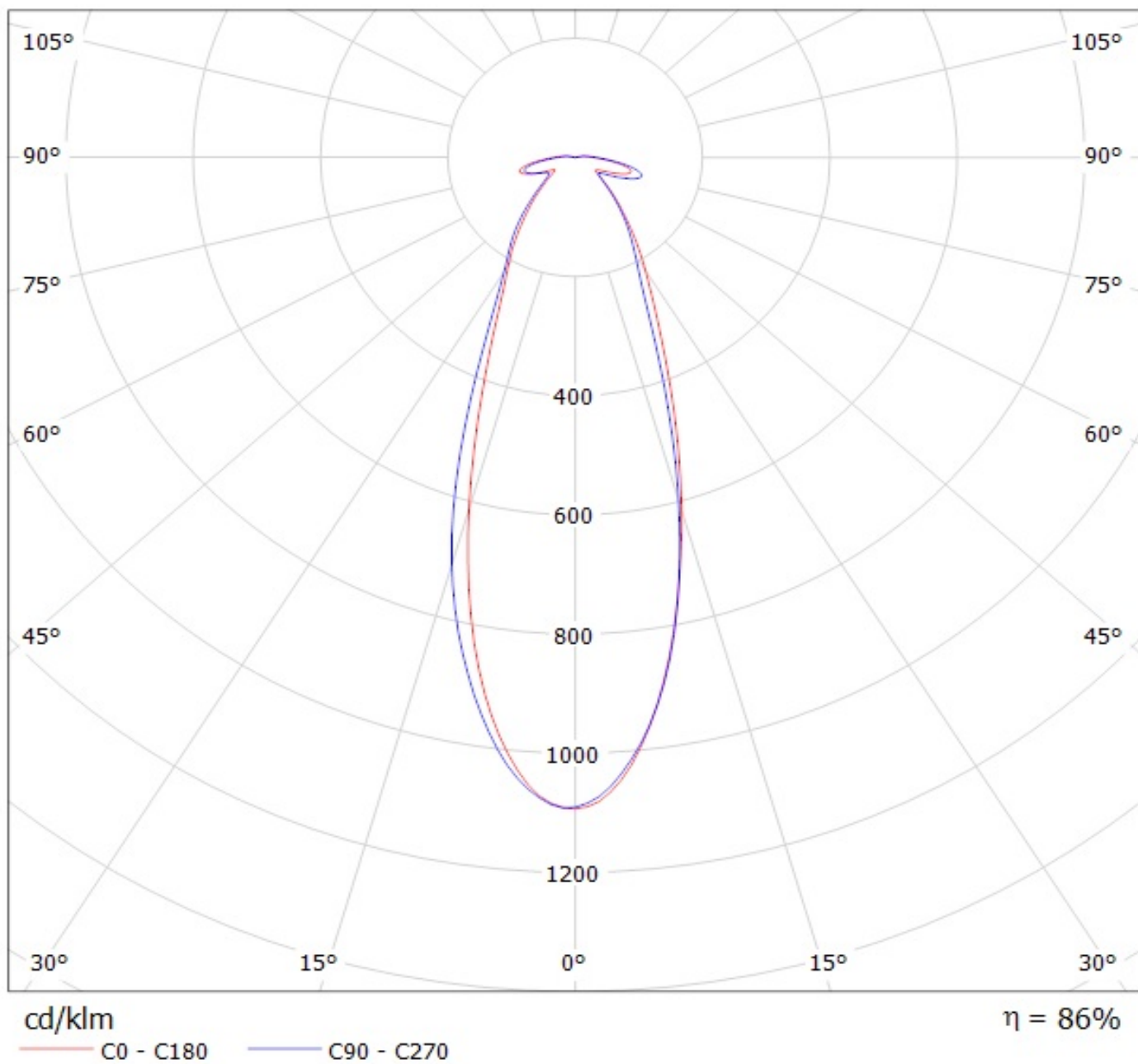
cd/klm

— C0 - C180 — C90 - C270

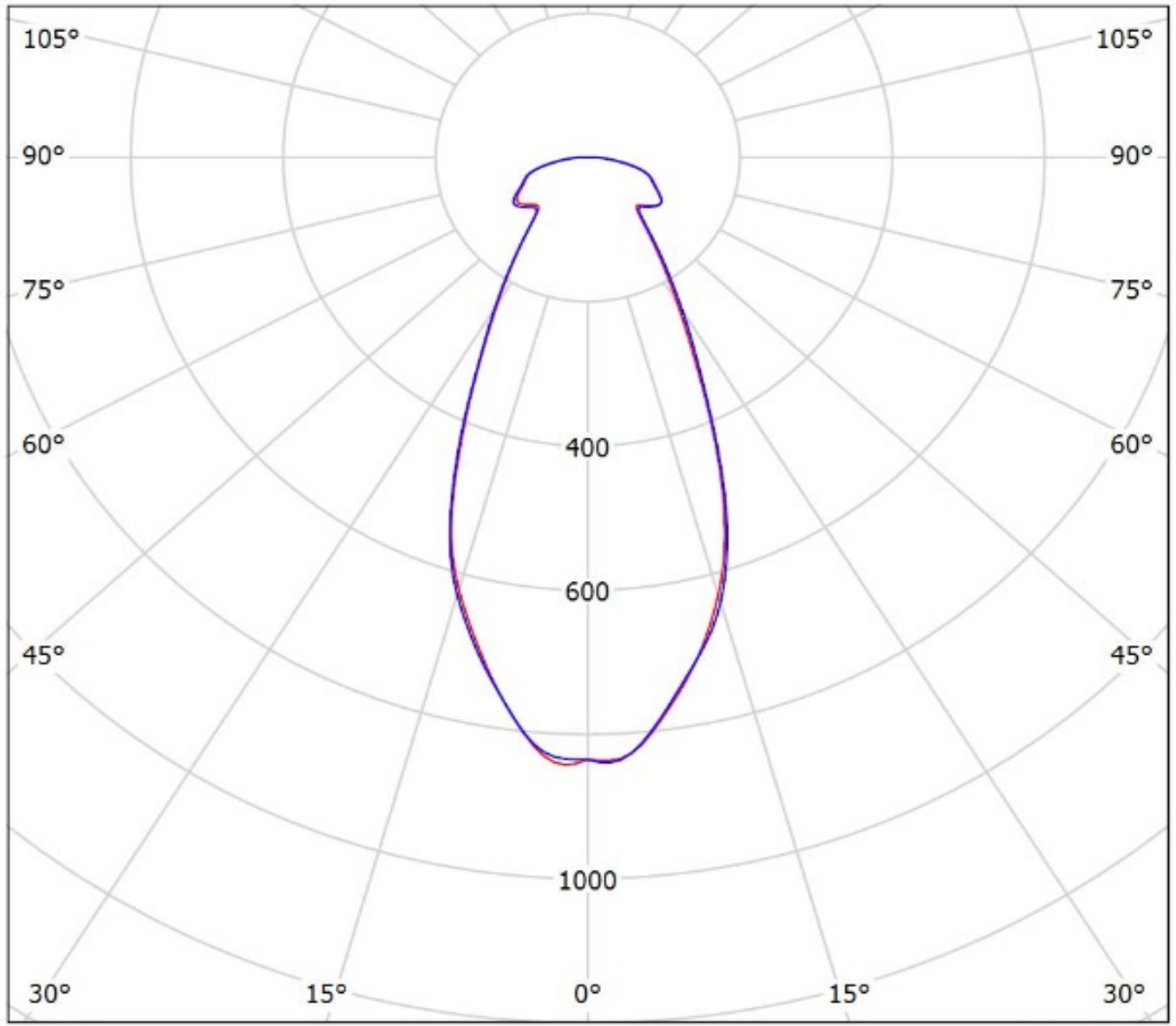
η = 84%

Luminaire: LEDiL Oy FN14720_STELLA-FRESNEL_(CLU046)

Lamps: 1 x Citizen_CLU046_1354.66lm@250mA_P=8.06877W_I=0.2499A



Luminaire: Ledil Oy FN14720_STELLA-FRESNEL_(CITIZEN_CLU05x)_SIMULATED
Lamps: 1 x CITIZEN_CLU054

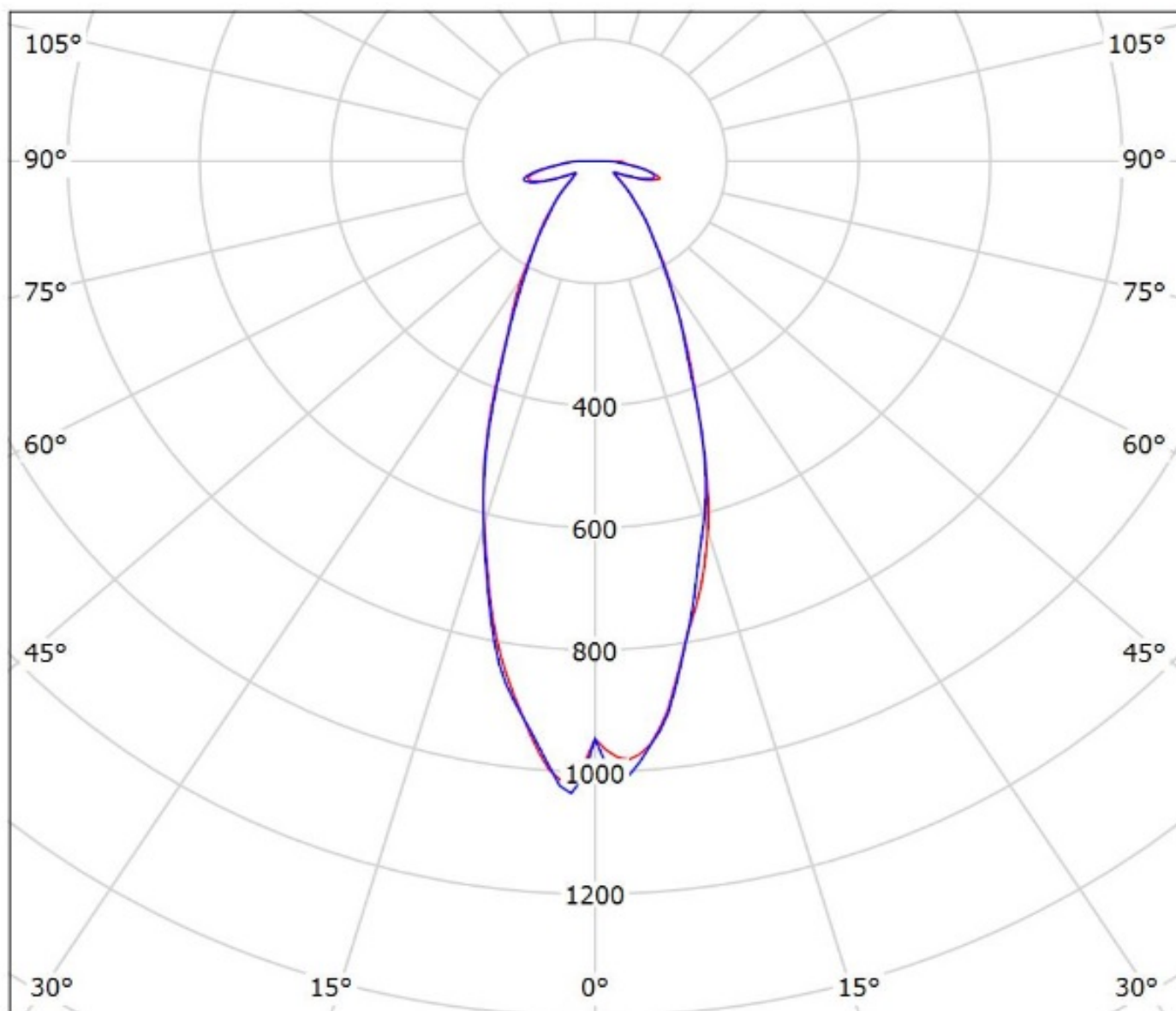


cd/klm

— C0 - C180 — C90 - C270

$\eta = 91\%$

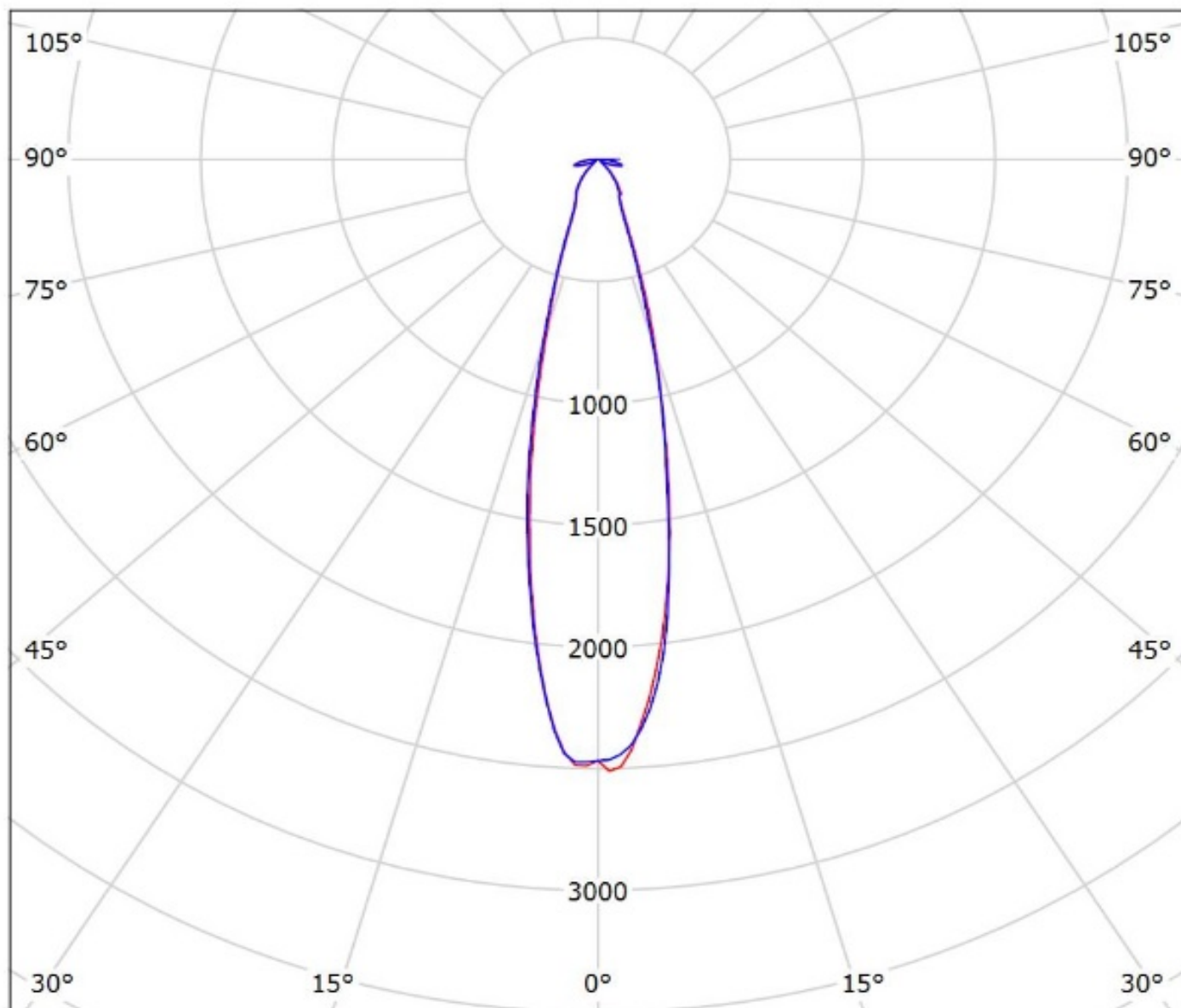
Luminaire: Ledil Oy FN14720_STELLA-FRESNEL_(CXA3590)_SIMULATED
Lamps: 1 x Cree CXA3590



cd/klm
— C0 - C180 — C90 - C270

$\eta = 83\%$

Luminaire: Ledil Oy FN14720_STELLA-FRESNEL_(CXA2590)_SIMULATED
Lamps: 1 x Cree CXA2590



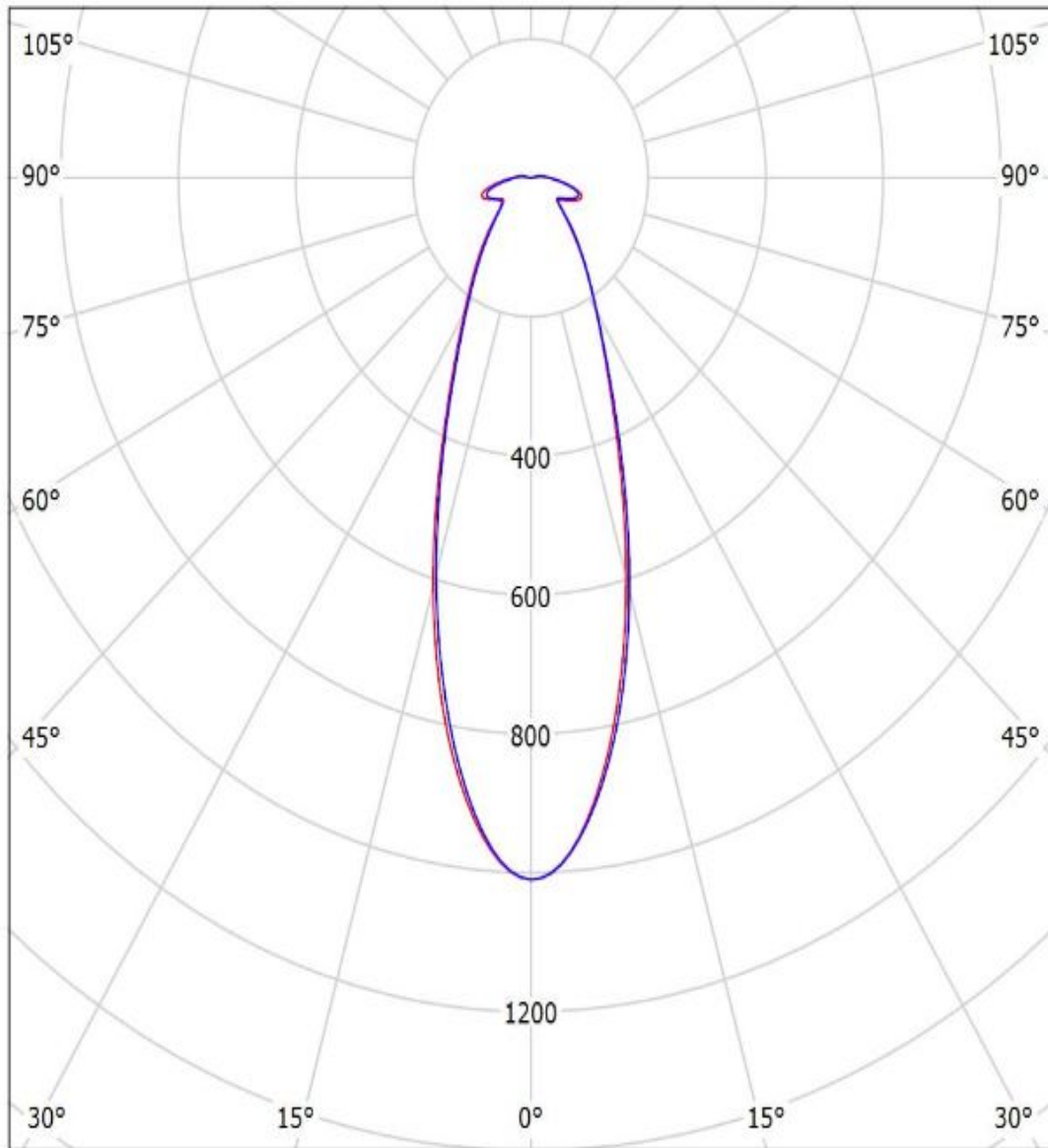
cd/klm

— C0 - C180 — C90 - C270

$\eta = 83\%$

Luminaire: Ledil FN14720_STELLA-FRESNEL_(CXB3070_+BJB)

Lamps: 1 x Cree_CXB3070_(-30G-AD-N0H-0001)_+BJB_47.319.2150_1399.52lm@250mA_CCT=3000K_P=8.0355W_I=0.25A



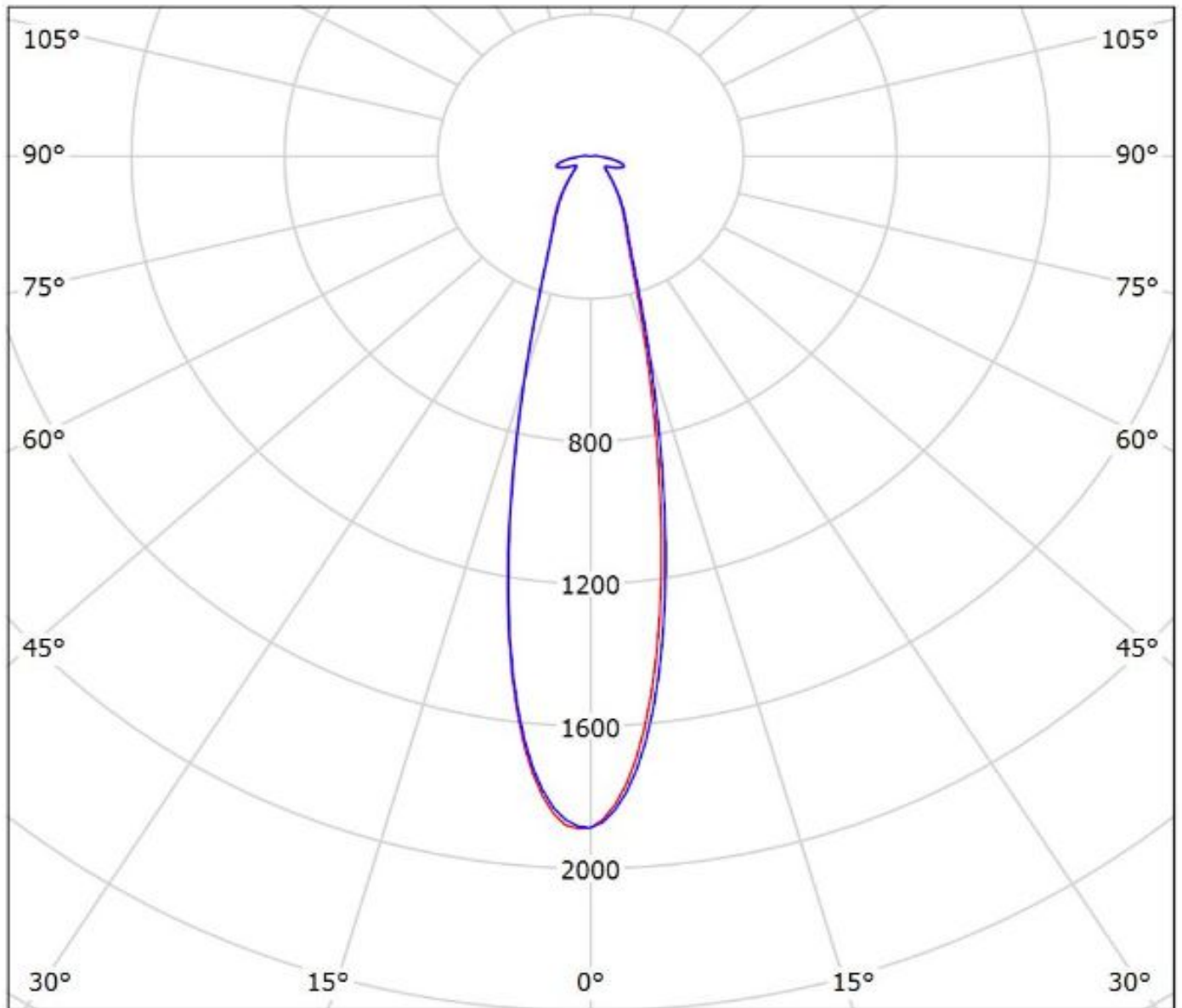
cd/klm

— C0 - C180 — C90 - C270

$\eta = 88\%$

Luminaire: Ledil FN14720_STELLA-FRESNEL_(CXB1820)

Lamps: 1 x Cree_CXB1820_(CXB1820-40G-S2-N0H-00001)_1336.39lm@250mA_P=8.38315W_U=33.545V



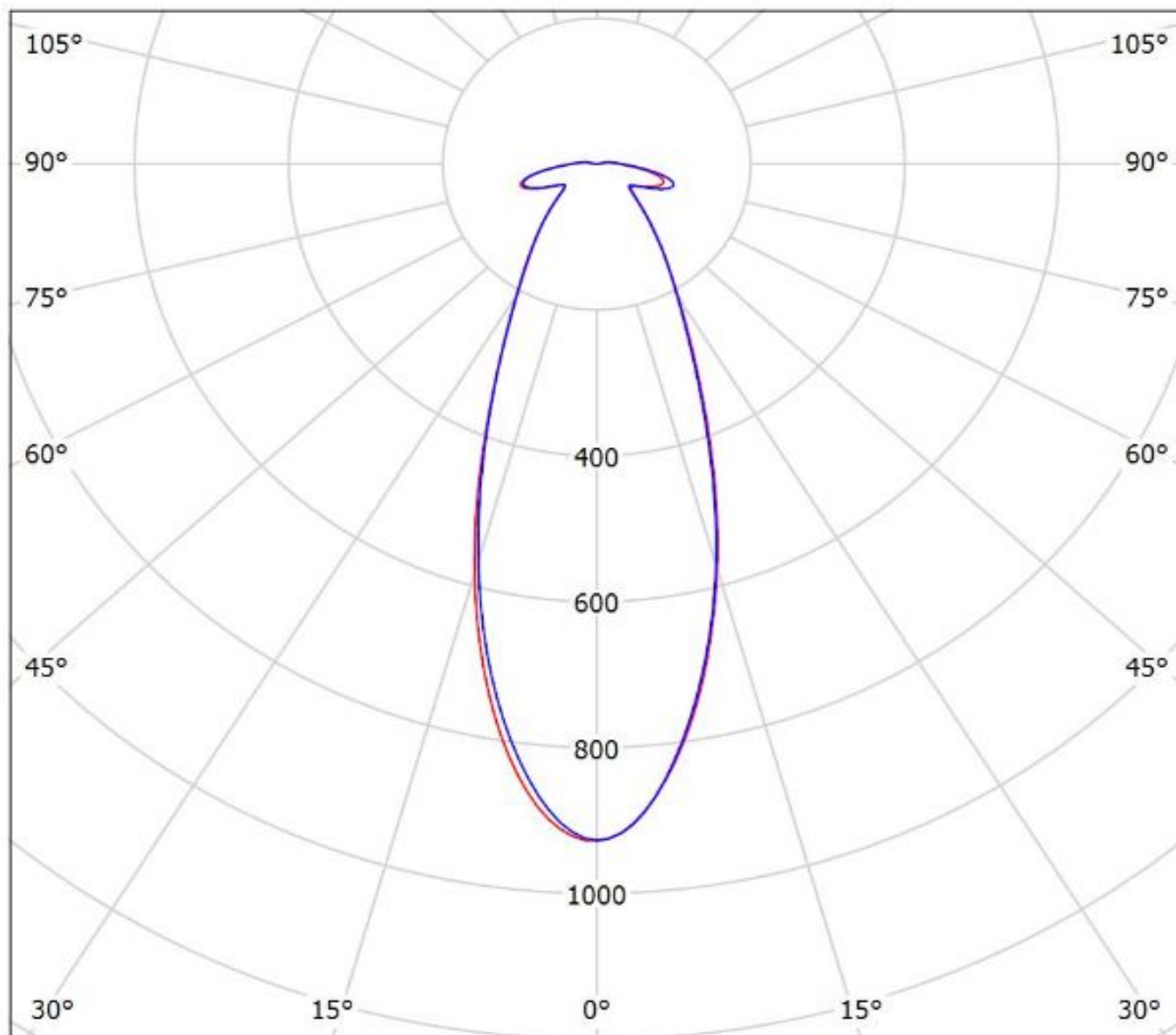
cd/klm

— C0 - C180 — C90 - C270

$\eta = 84\%$

Luminaire: Ledil FN14720_STELLA-FRESNEL_(CoB_1216)

Lamps: 1 x Luxeon_CoB_1216_(L2C2-40801216E2300)_1468.12lm@250mA_P=7.9868W_I=0.25A

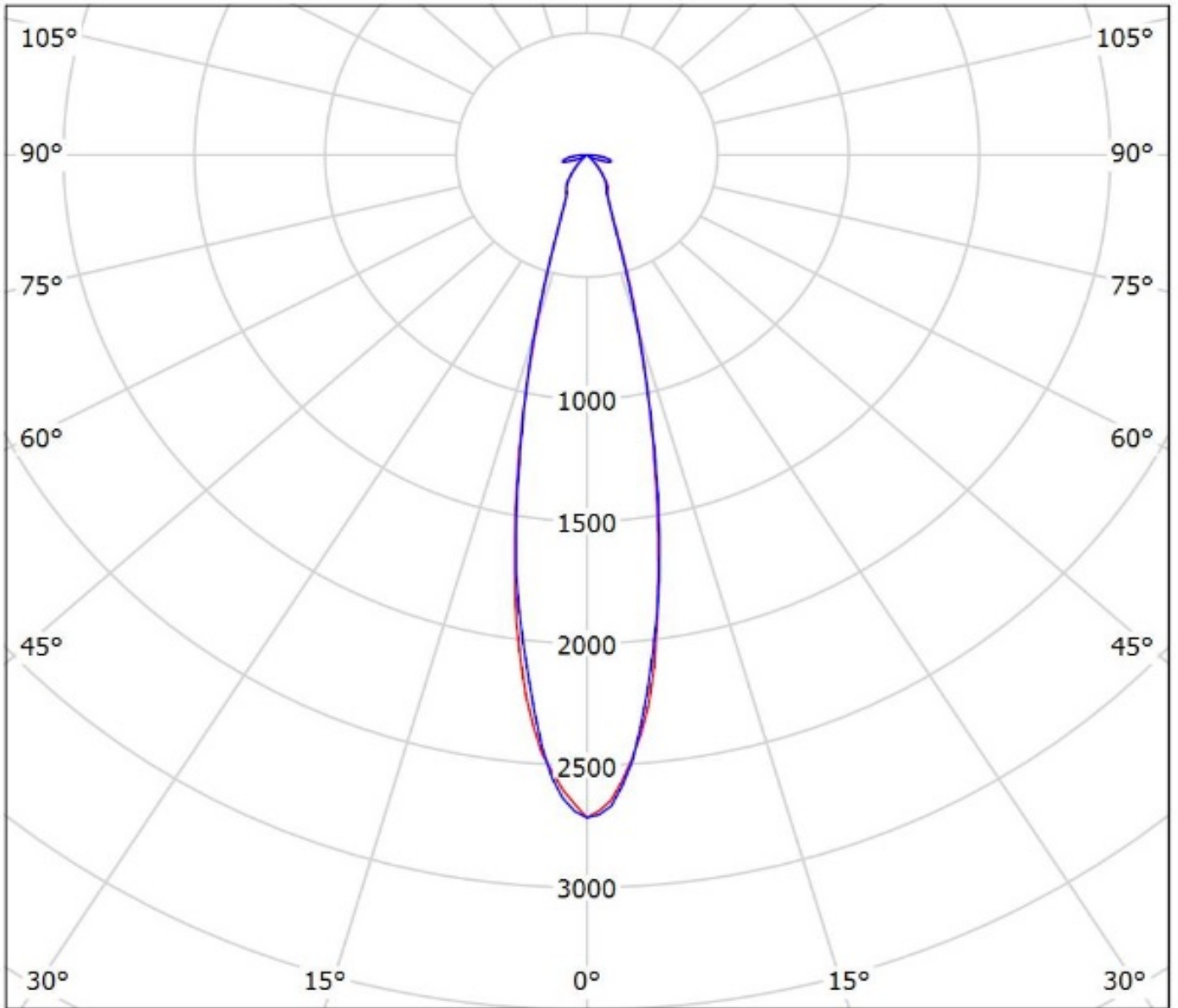


cd/klm

— C0 - C180 — C90 - C270

$\eta = 86\%$

Luminaire: Ledil Oy FN14720_STELLA-FRESNEL_(Luxeon_CoB_1208)_SIMULATED
Lamps: 1 x Lumileds Luxeon CoB 1208

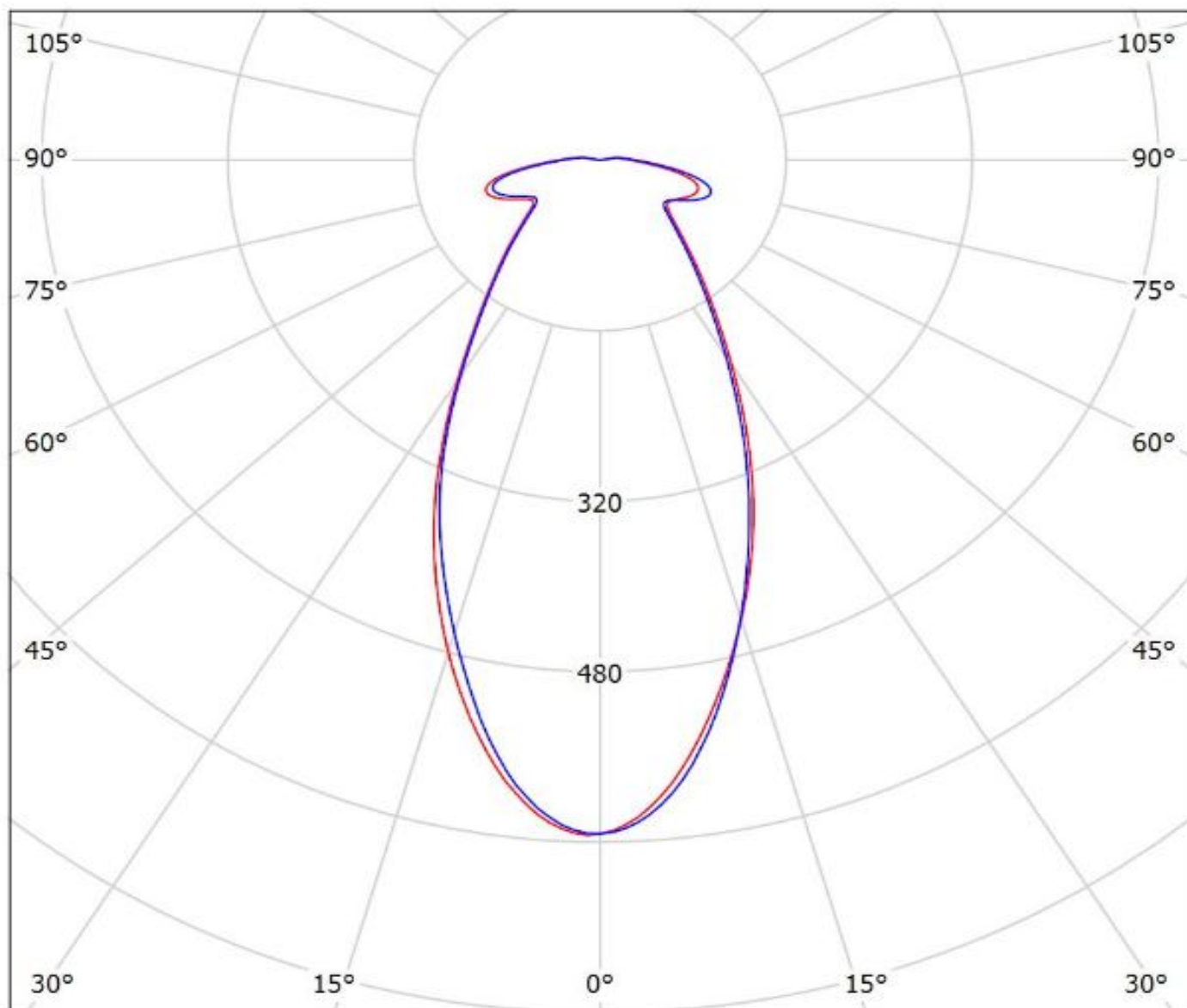


cd/klm

— C0 - C180 — C90 - C270

$\eta = 82\%$

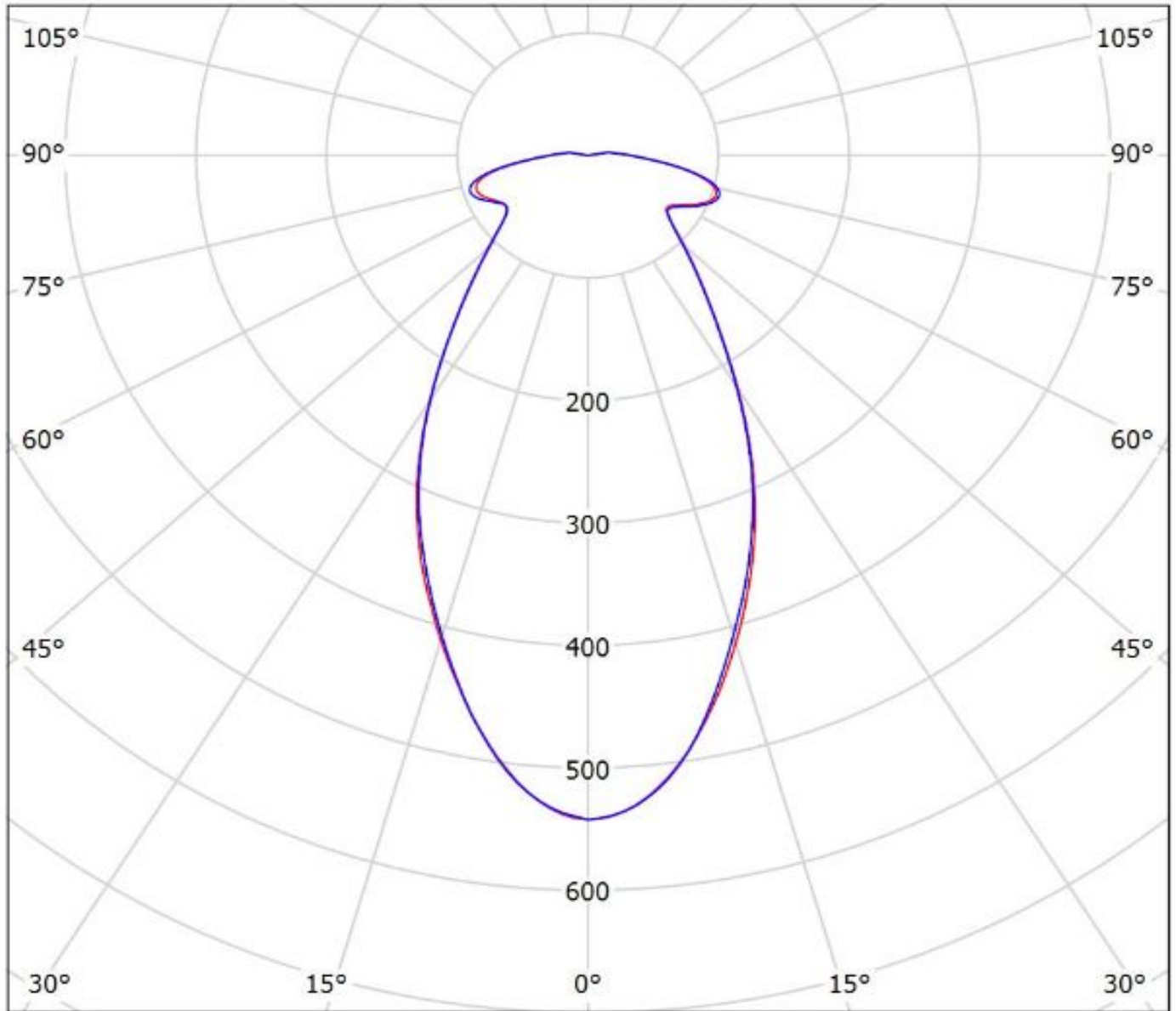
Luminaire: Ledil FN14720_STELLA-FRESNEL_(Luxeon_CoB_1321)
Lamps: 1 x Luxeon_CoB_1321_1620.6lm@250mA_P=8.55758W_I=0.25A



cd/klm
— C0 - C180 — C90 - C270

$\eta = 85\%$

Luminaire: Ledil FN14720_STELLA-FRESNEL_(Luxeon_CoB_1825)
Lamps: 1 x Luxeon_CoB_1825_1853.66lm@250mA_P=8.55758W_I=0.25A



cd/klm

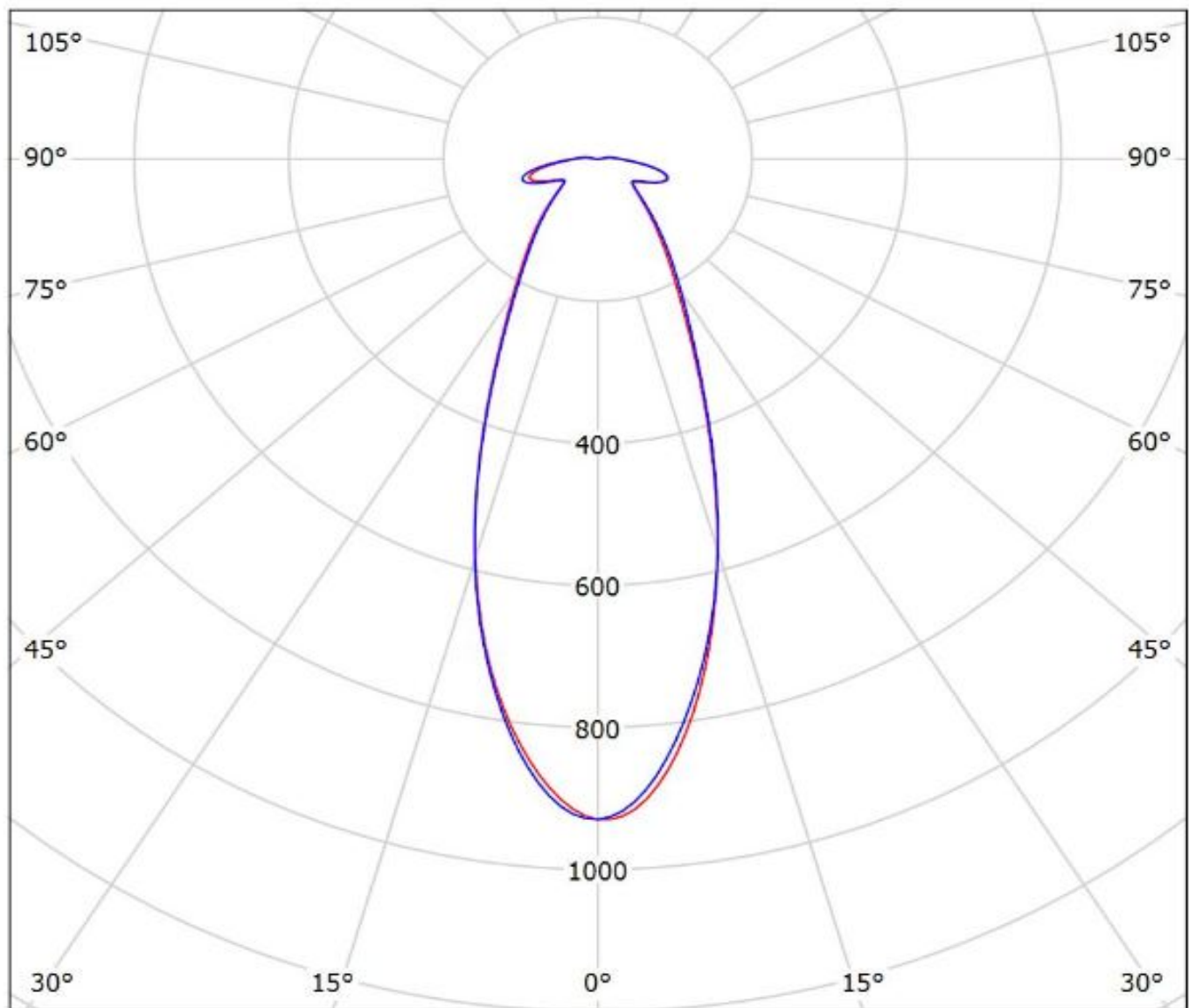
— C0 - C180 — C90 - C270

$\eta = 84\%$

Luminaire: Ledil FN14720_STELLA-FRESNEL_(CXM-22_+BW)

Lamps: 1 x LUMINUS_CXM-

22_+Bender&Wirth_431TypL3_1259.61lm@250mA_P=8.0332W_CCT=3000K_I=0.25A



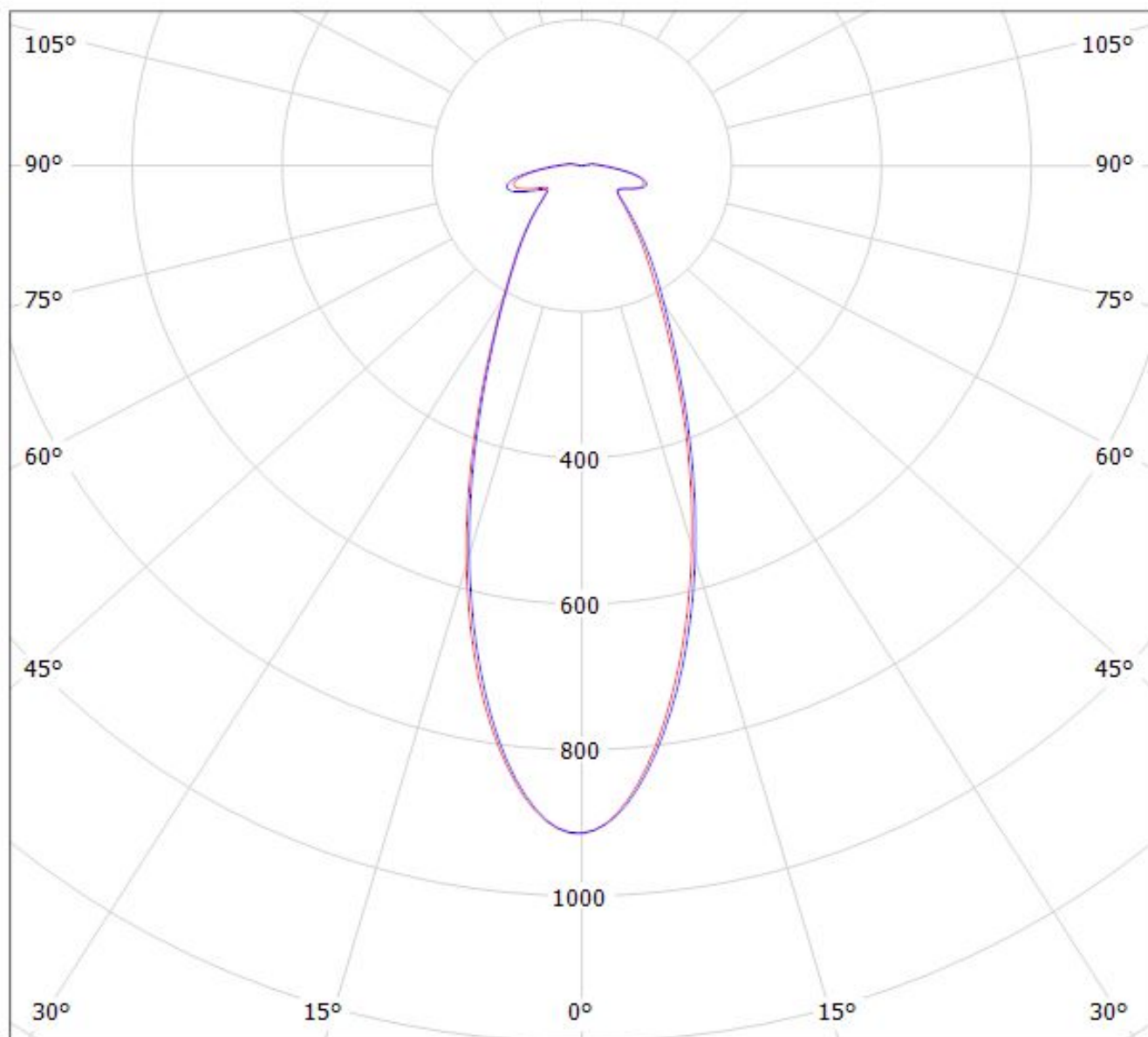
cd/klm

— C0 - C180

— C90 - C270

$\eta = 86\%$

Luminaire: LEDiL Oy FN14720_STELLA-FRESNEL_(NFEWH306B-V2E)
Lamps: 1 x Nichia_NFEWH306B-V2E_2183.86lm@250mA_P=11.9135W_U=47.692V



cd/klm

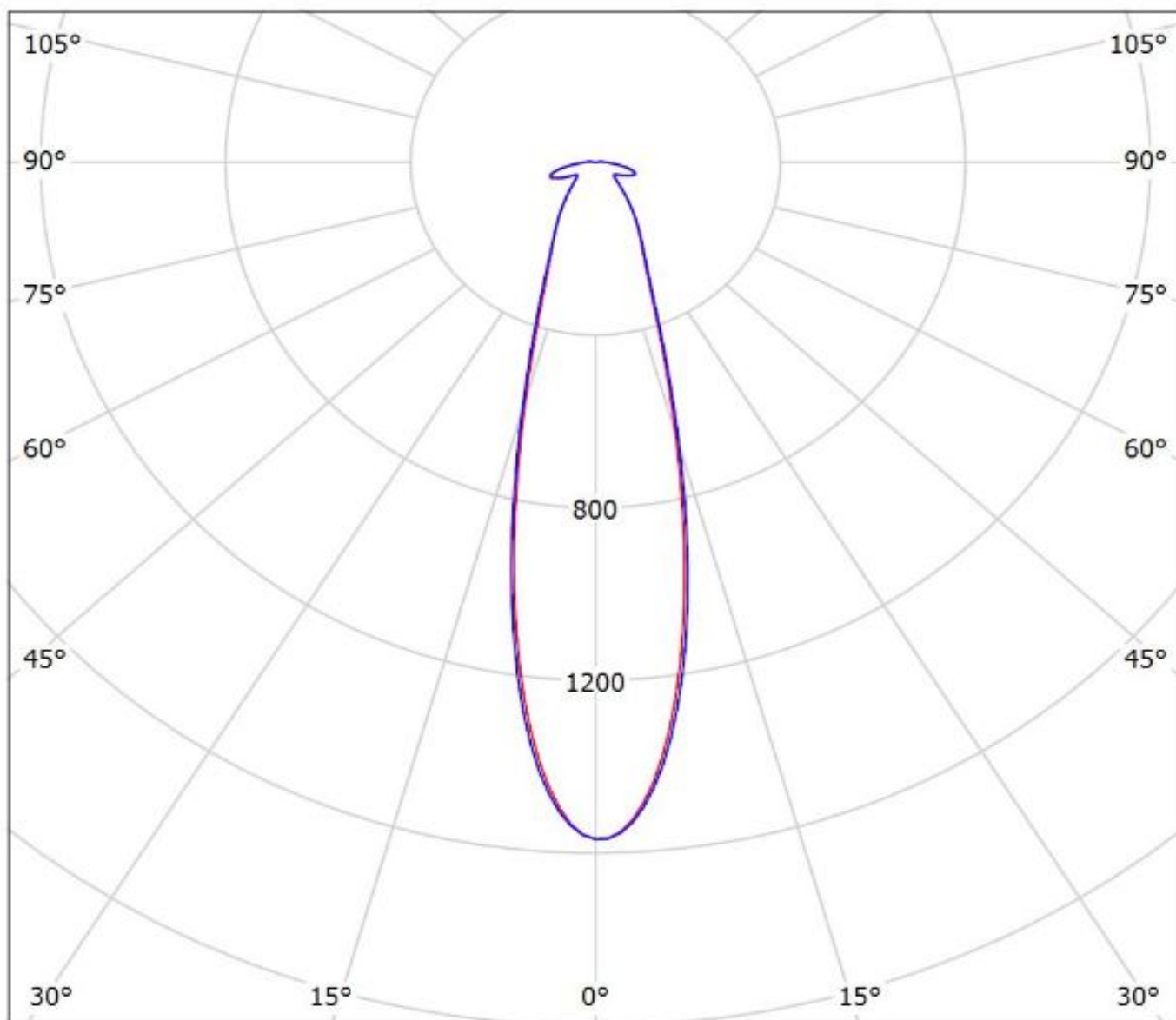
$\eta = 85\%$

— C0 - C180

— C90 - C270

Luminaire: Ledil FN14720_STELLA-FRESNEL_(NFDLJ130B)

Lamps: 1 x Nichia_NFDLJ130B_1399.61m@250mA_CCT=4000K_P=8.82847W_U=35.328V



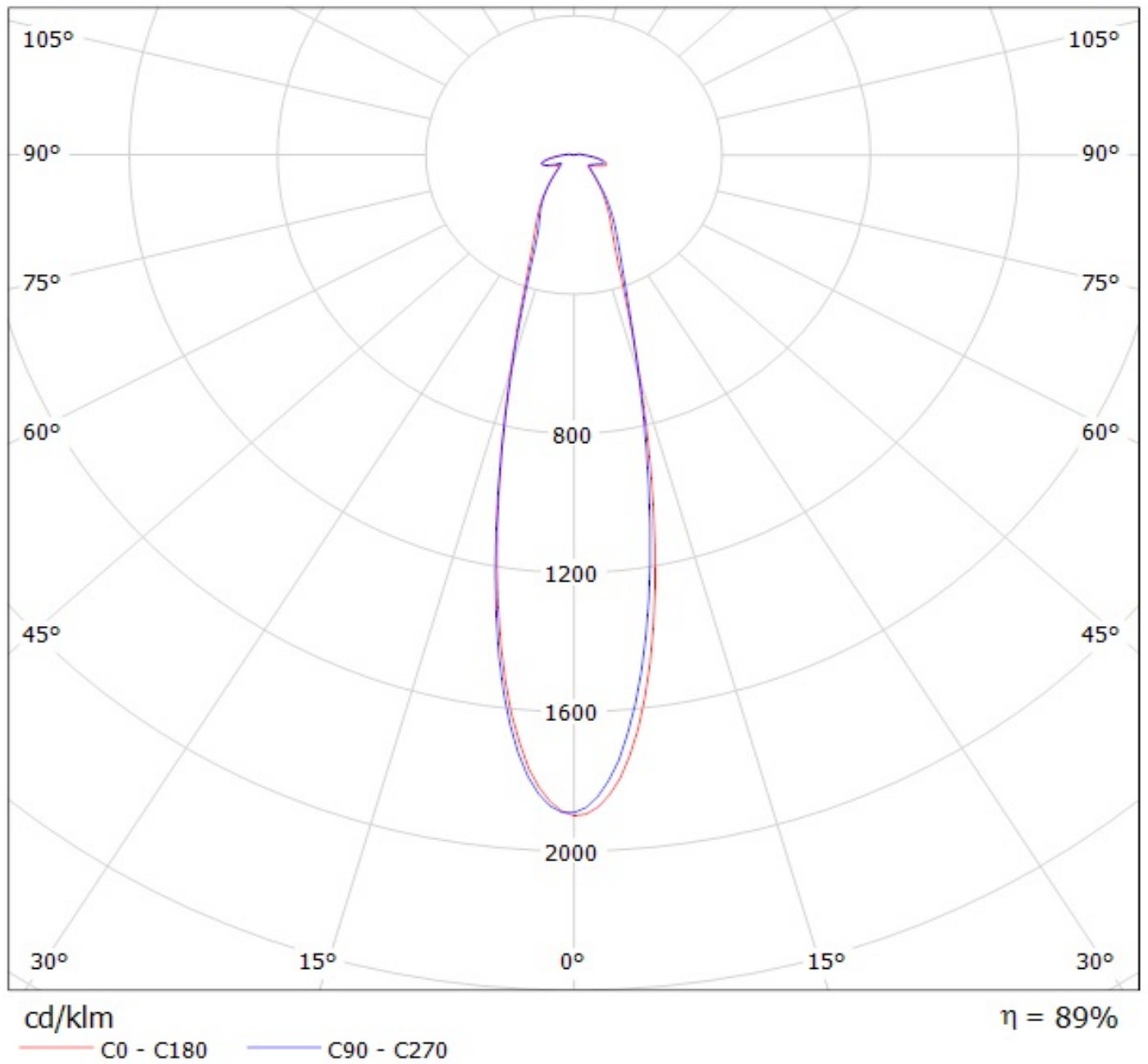
cd/klm

— C0 - C180 — C90 - C270

$\eta = 85\%$

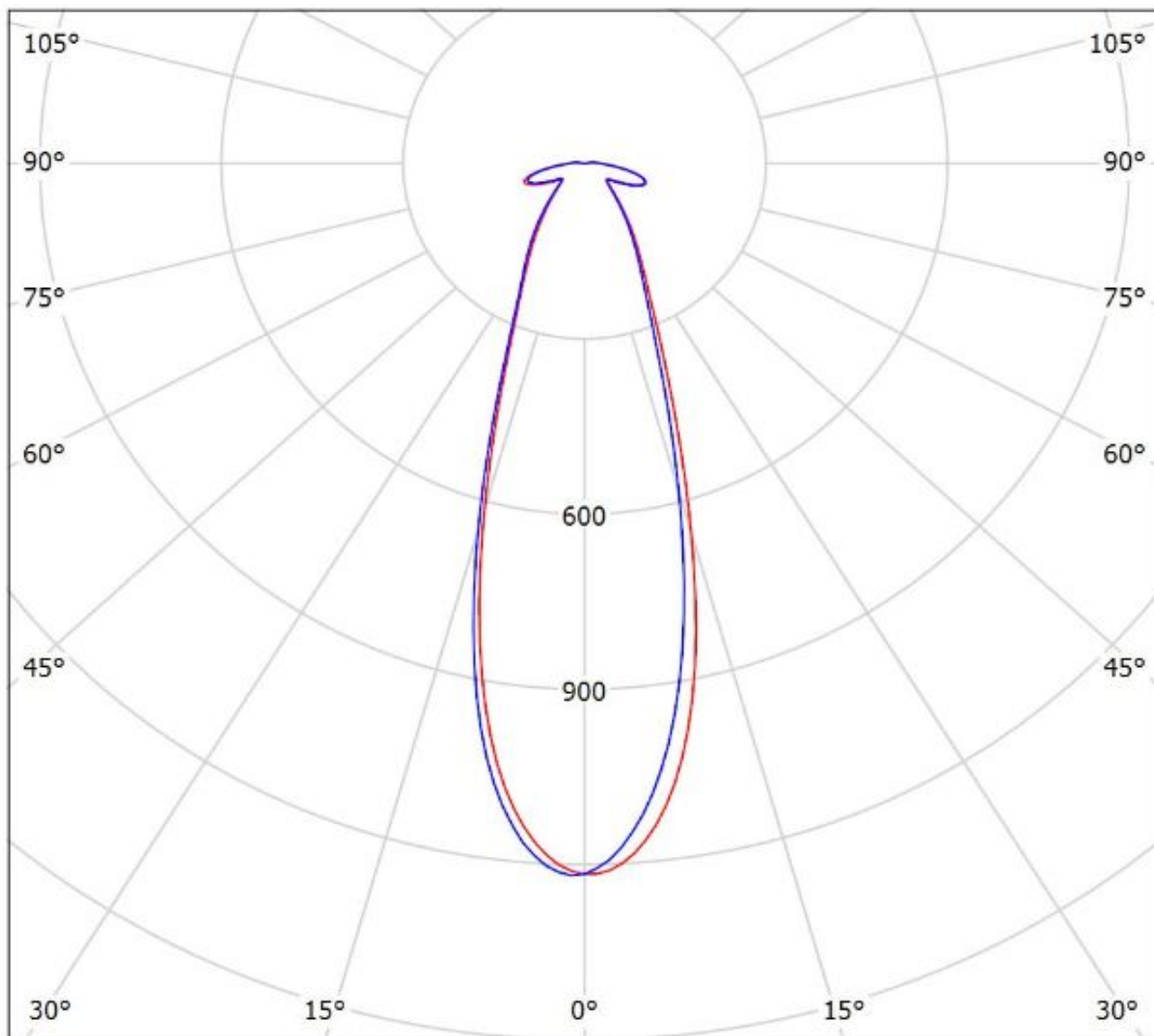
Luminaire: LEDiL Oy FN14720_STELLA-FRESNEL_(Soleriq_P13)_Cav1

Lamps: 1 x Osram_Soleriq_P13_(GQ_MAGMB1.EM)_922.464lm@250mA_P=8.69804W_I=0.2498A



Luminaire: Ledil FN14720_STELLA-FRESNEL_(Soleriq_S19)

Lamps: 1 x Osram_Soleriq_S19_(GW-KAHJB1.EM)_1487.02lm@250mA_P=10.562W_I=0.25A



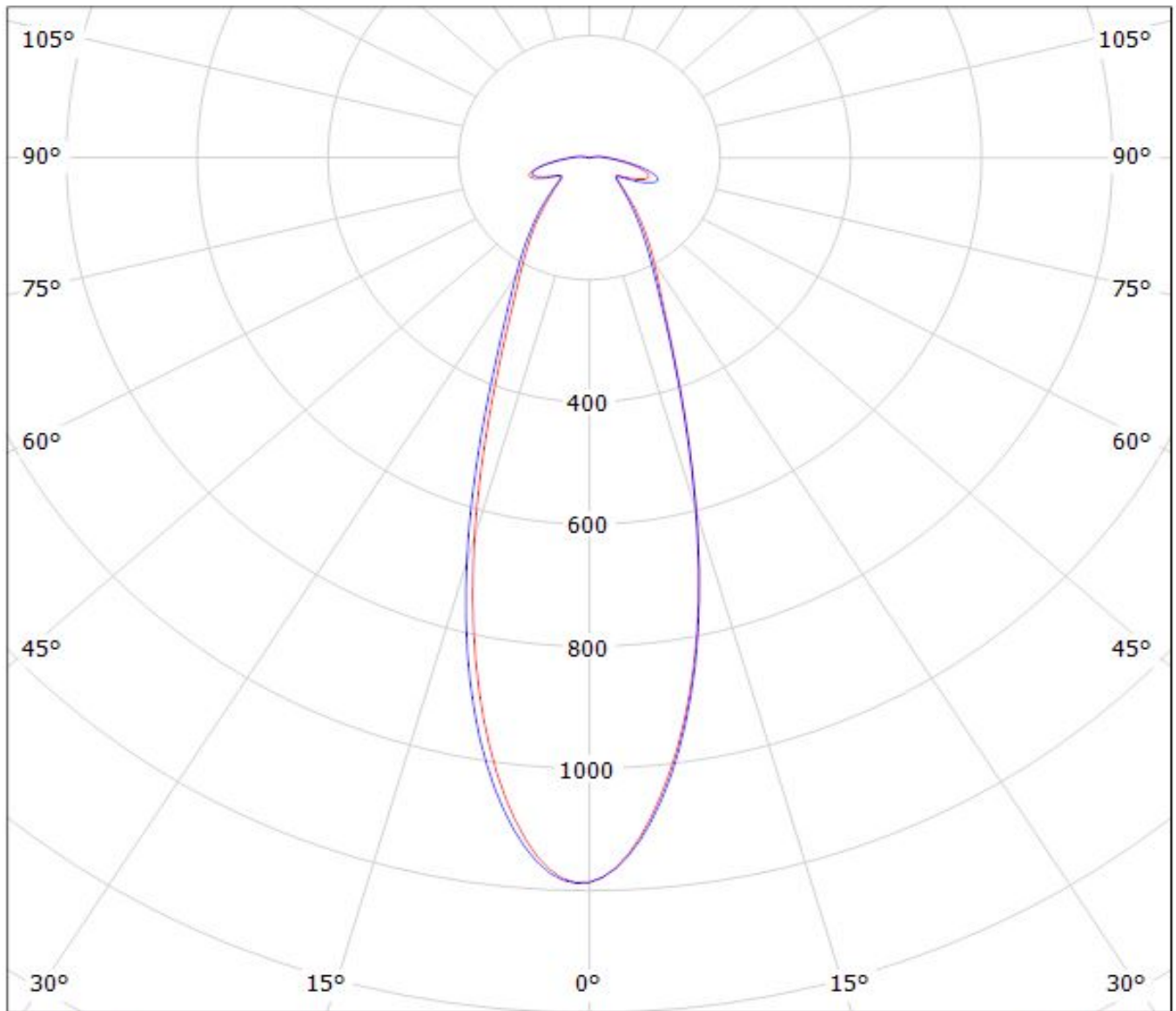
cd/klm

— C0 - C180 — C90 - C270

$\eta = 85\%$

Luminaire: LEDiL Oy FN14720_STELLA-FRESNEL_(SLM_1211_L19_G6)

Lamps: 1 x Philips_Fortimo_SLM_1211_L19_G6_Poke-In_1152.17lm@250mA_P=8.10051W_I=0.25A



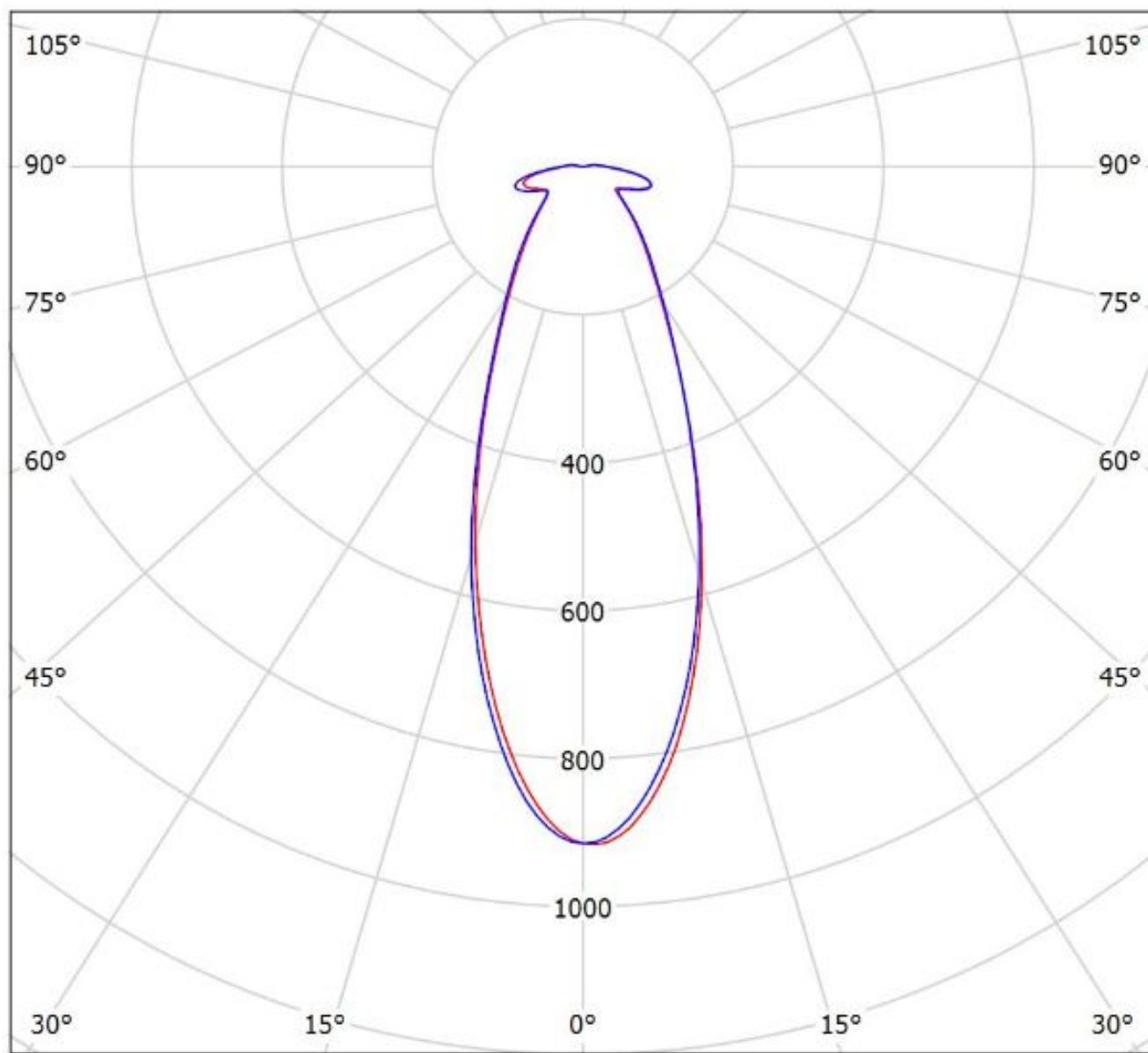
cd/klm

$\eta = 87\%$

— C0 - C180 — C90 - C270

Luminaire: Ledil FN14720_STELLA-FRESNEL_(COB_D_LES_22mm)

Lamps: 1 x Samsung_COB_D_LES_22mm_(LC040D)_1538.83lm@250mA_4000K_P=8.04778W_I=0.25A



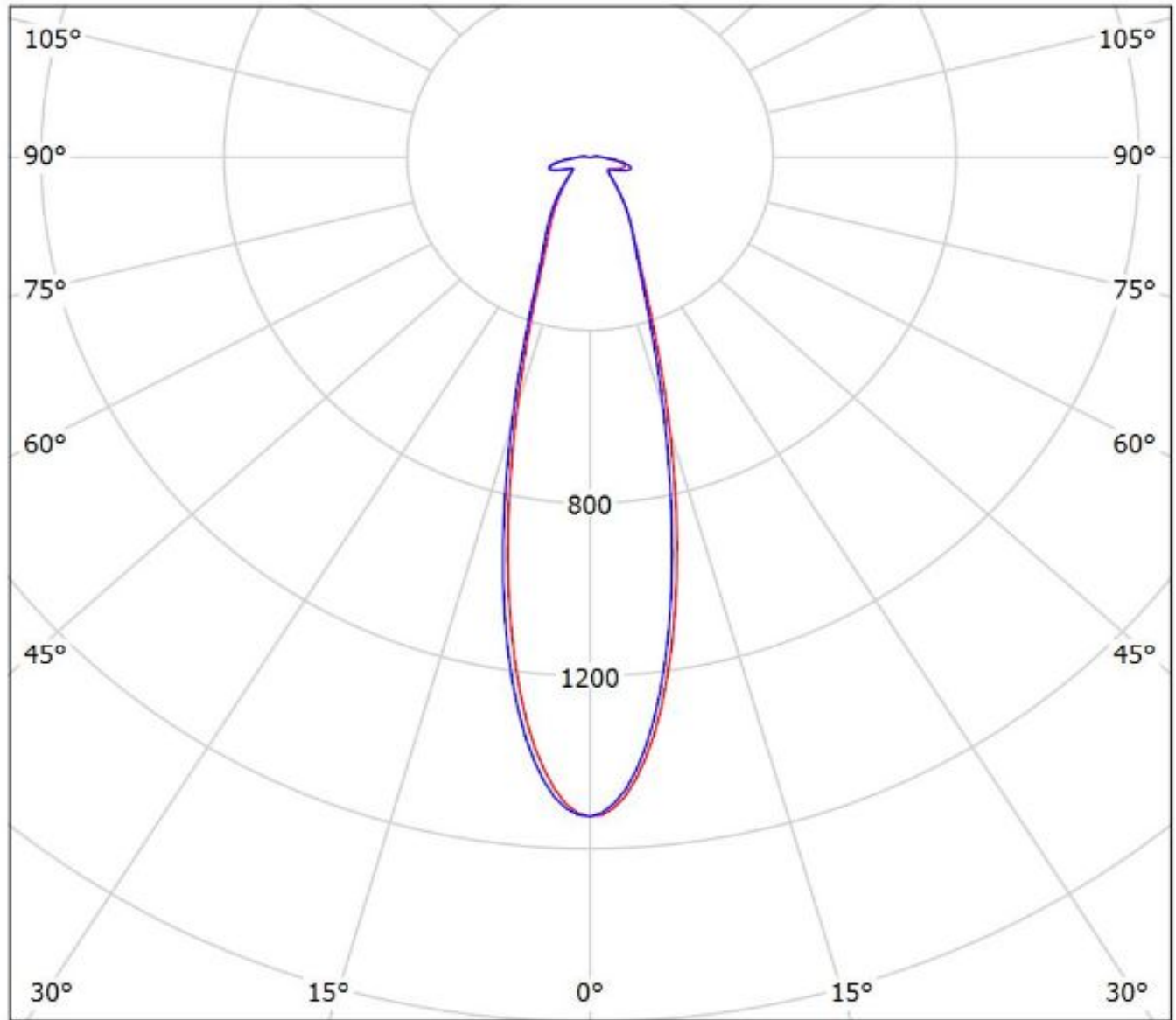
cd/klm

— C0 - C180 — C90 - C270

$\eta = 84\%$

Luminaire: Ledil FN14720_STELLA-FRESNEL_(COB_D_LES_14.5mm)

Lamps: 1 x Samsung_COB_D_LES_14.5mm_(LC026D)_1269.42lm@250mA_3000K_P=8.14199W_I=0.25A



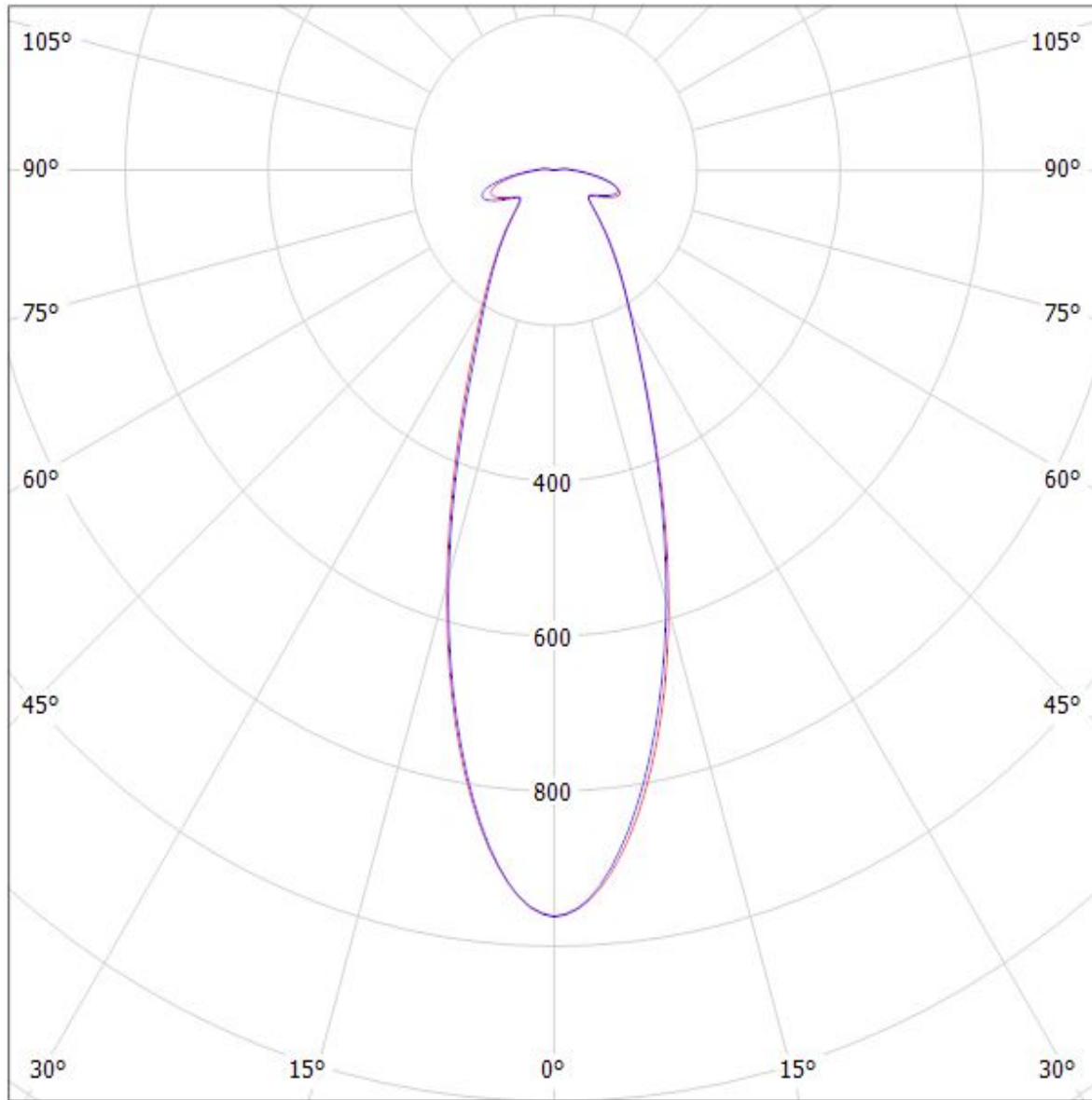
cd/klm

— C0 - C180 — C90 - C270

$\eta = 83\%$

Luminaire: Ledil FN14720_STELLA-FRESNEL_(MJT_80W_Les22)_+Ideal_50-2204CT

Lamps: 1 x Seoul_MJT_80W_Les22mm_(SAWx22AAA)_+Ideal_50-2204CT_2497.65lm@250mA_P=13.3118W_I=0.25A



cd/klm

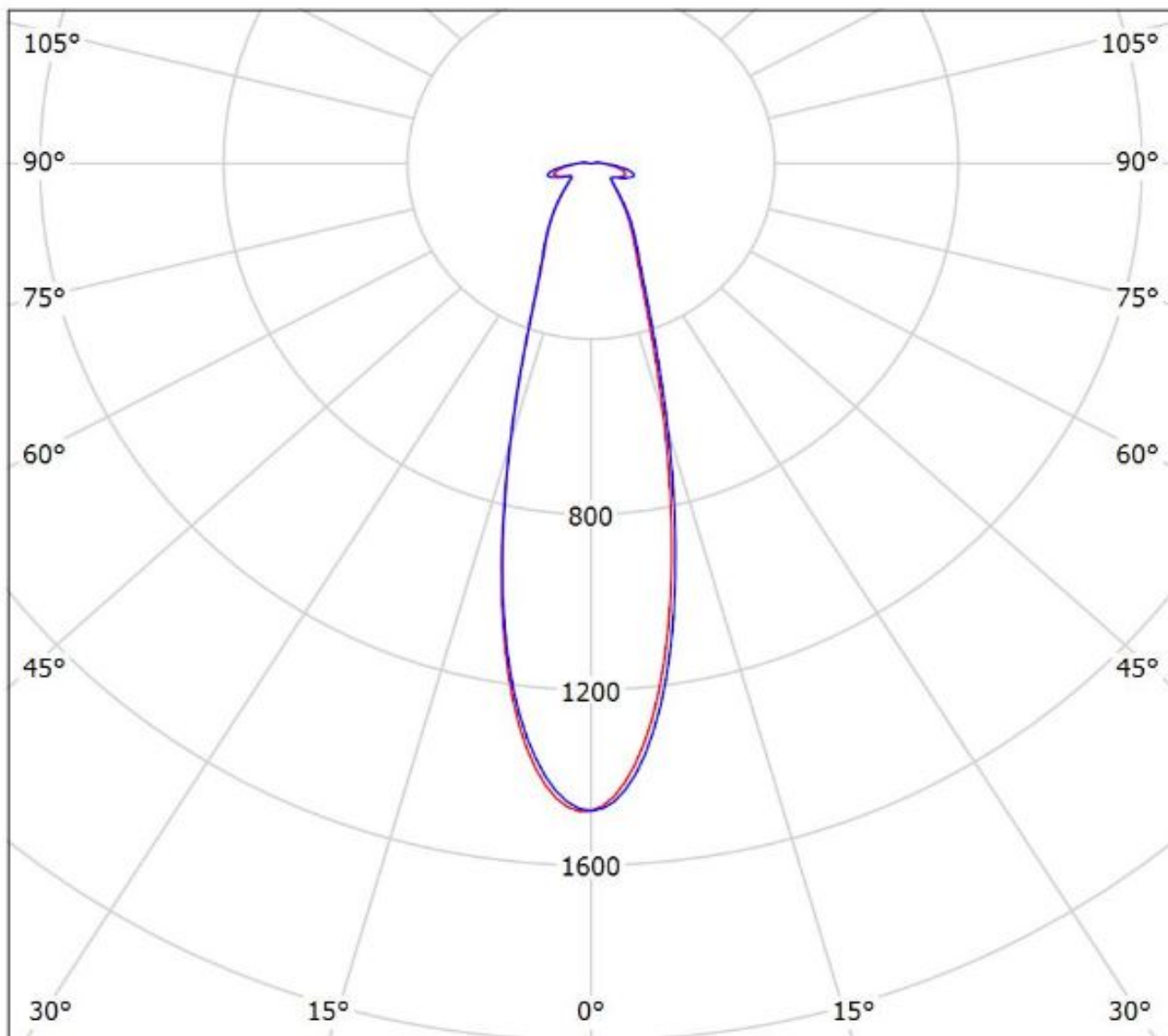
— C0 - C180

— C90 - C270

$\eta = 84\%$

Luminaire: Ledil FN14720_STELLA-FRESNEL_(MJT_30W_Les14,5)_+50-2103CT

Lamps: 1 x Seoul_MJT_30W_Les14,5mm_(SAWx1566A)_50-2103CT_1339.05lm@250mA_P=8.2275W_I=0.25A

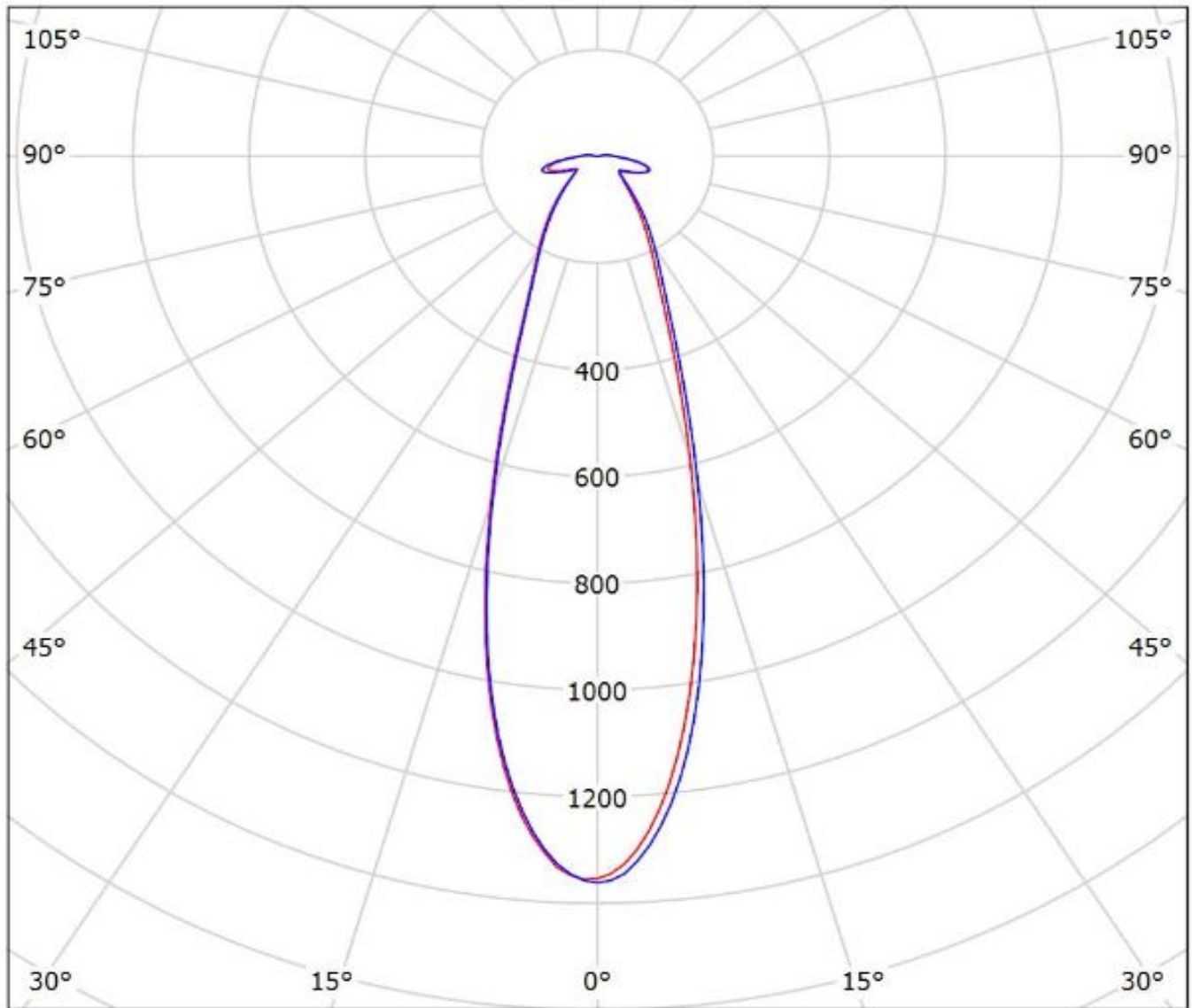


cd/klm

— C0 - C180 — C90 - C270

$\eta = 86\%$

Luminaire: LEDiL Oy FN14720_STELLA-FRESNEL_(SLE-G5_LES-19)
Lamps: 1 x Tridonic_SLE-G5_LES-19_1189.9lm@250mA_P=8.3068W_I=0.250A



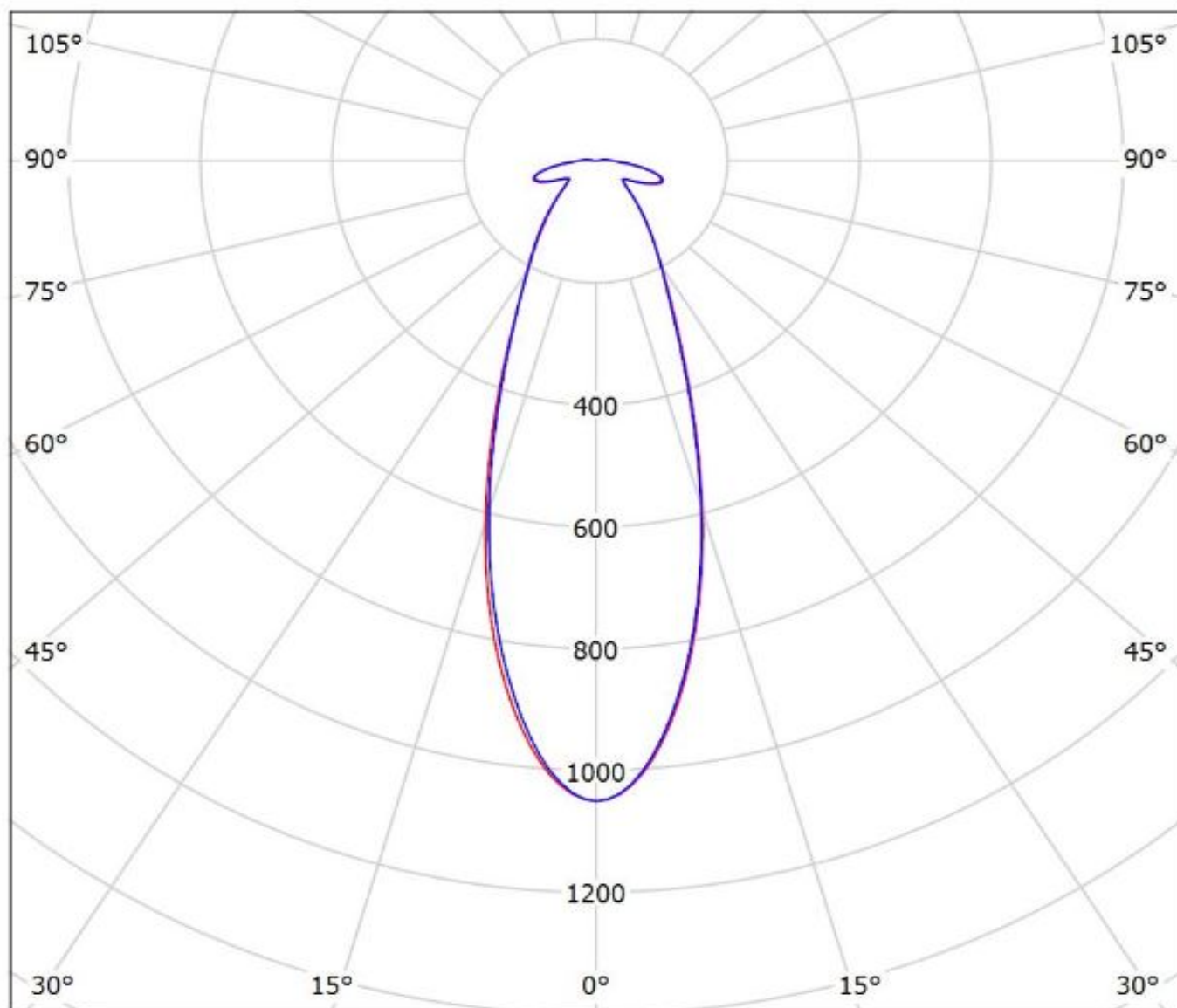
cd/klm

— C0 - C180 — C90 - C270

$\eta = 86\%$

Luminaire: LEDiL Oy FN14720_STELLA-FRESNEL_(SLE-G5_LES-23)

Lamps: 1 x Tridonic_SLE-G5_LES-23_1408.28lm@250mA_P=8.1392W_I=0.250A



cd/klm

— C0 - C180 — C90 - C270

$\eta = 86\%$

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.