

DETAILS

Product Number	F13664_ANGELA-W-B
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	10/02/2015



OPTICAL PROPERTIES

LED	Viewing Angle	Light Beam	Efficiency	cd/lm	Connector
CLU730	sim: 35	Wide	sim: 91 %	sim: 1.950	BJB: Solderless Connector 47.319.2030
CLU720	32 deg	Wide	84 %	1.700	A.A.G. STUCCHI: 8101/G2
CLU720	32 deg	Wide	83 %	1.700	BJB: Solderless Connector 47.319.2021
Soleriq P13	33 deg	Wide	83 %	1.670	A.A.G. STUCCHI: 8502/G2
LUXEON CoB 1204/1205	33 deg	Wide	83 %	1.660	A.A.G. STUCCHI: 8301/G2
Soleriq S13	33 deg	Wide	84 %	1.700	A.A.G. STUCCHI: 8502/G2
CXM-14	33 deg	Wide	83 %	1.700	BJB: Solderless Connector 47.319.2021
COB 10W/13W/17W/24W	33 deg	Wide	84 %	1.700	BJB: Solderless Connector 47.319.2080
CLL03x/CLU034	33 deg	Wide	83 %	1.680	BJB: Solderless Connector 47.319.2021
COB 10W/13W/17W/24W	34 deg	Wide	83 %	1.650	A.A.G. STUCCHI: 8600/G2
CLL03x/CLU034	34 deg	Wide	83 %	1.630	A.A.G. STUCCHI: 8101/G2
ZC12/18	34 deg	Wide	83 %	1.660	A.A.G. STUCCHI: 8101/G2
SLE G4 LES19 H	34 deg	Wide	81 %	1.600	-
Mega Zenigata (GW6DME)	34 deg	Wide	85 %	1.700	BJB: Solderless Connector 47.319.2011
BXRA ES Rectangle	34 deg	Wide	83 %	1.650	BJB: Solderless Connector 47.319.2040
Mega Zenigata (GW6DME)	35 deg	Wide	84 %	1.600	A.A.G. STUCCHI: 8301/G2
STARK SLE PURE G3 LES17	35 deg	Wide	83 %	1.580	A.A.G. STUCCHI: 8101/G2
LUXEON K12	35 deg	Wide	87 %	1.700	BJB: Solderless Connector 47.319.2070
LUXEON CoB 1208	35 deg	Wide	84 %	1.600	A.A.G. STUCCHI: 8301/G2
Soleriq S19	35 deg	Wide	83 %	1.600	BJB: Solderless Connector 47.319.2170
SLE G4 LES23 H	36 deg	Wide	86 %	1.600	-
LUXEON K16	36 deg	Wide	88 %	1.700	BJB: Solderless Connector 47.319.2070
LUXEON CoB 1211	37 deg	Wide	81 %	1.500	BJB: Solderless Connector 47.319.2030
CXA/B 25xx	37 deg	Wide	82 %	1.510	A.A.G. STUCCHI: 8401/G2
LUXEON CoB 1211	37 deg	Wide	82 %	1.500	A.A.G. STUCCHI: 8102/G2

D

C

B

A

4

4

LED position

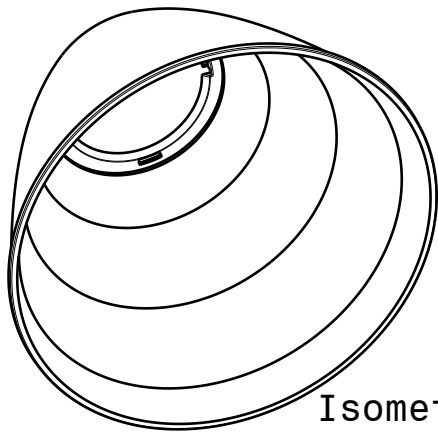
Ø 119.5

Ø 39

Bottom view
Scale: 1:2

3

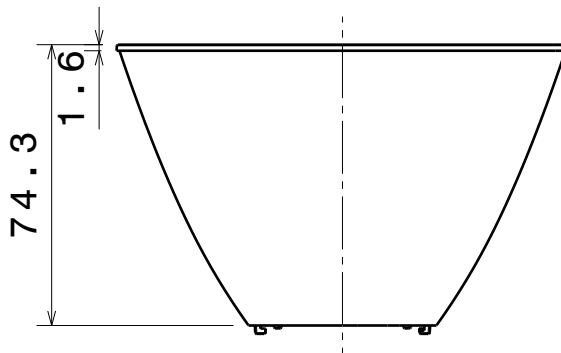
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Isometric view
Scale: 1:2

2

2



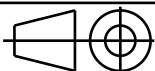
Front view
Scale: 1:2

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



Ledil Oy
Salorankatu 10
FIN 24240 SALO
Finland

THIRD ANGLE PROJECTION:



DRAWING TITLE

Angela-B

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reproduced, copied or
communicated without a written
agreement with LEDiL Oy."

SIZE PART NUMBER

A4

-

SCALE 1:2 WEIGHT

-

SHEET 1/1

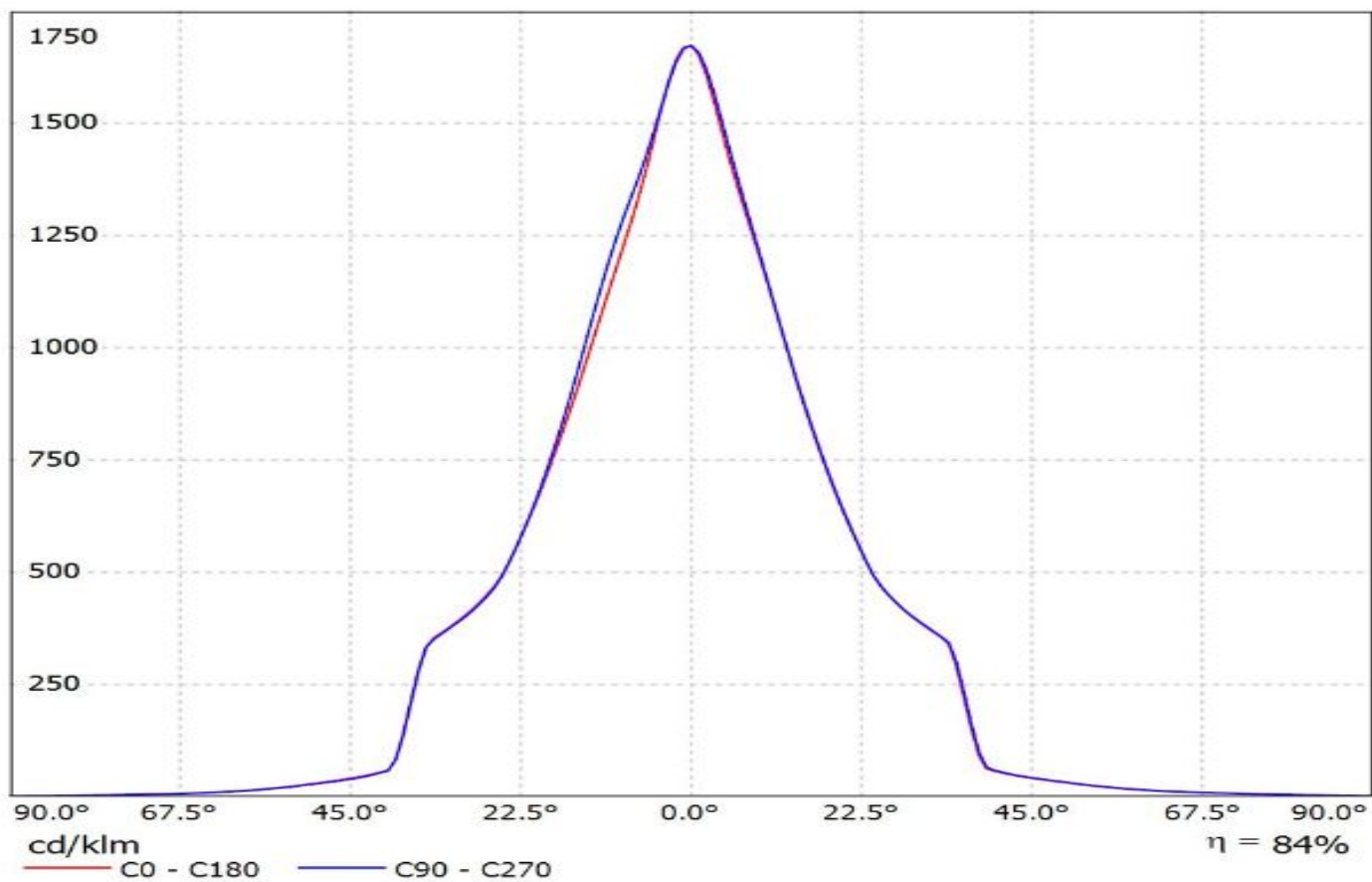
D

A

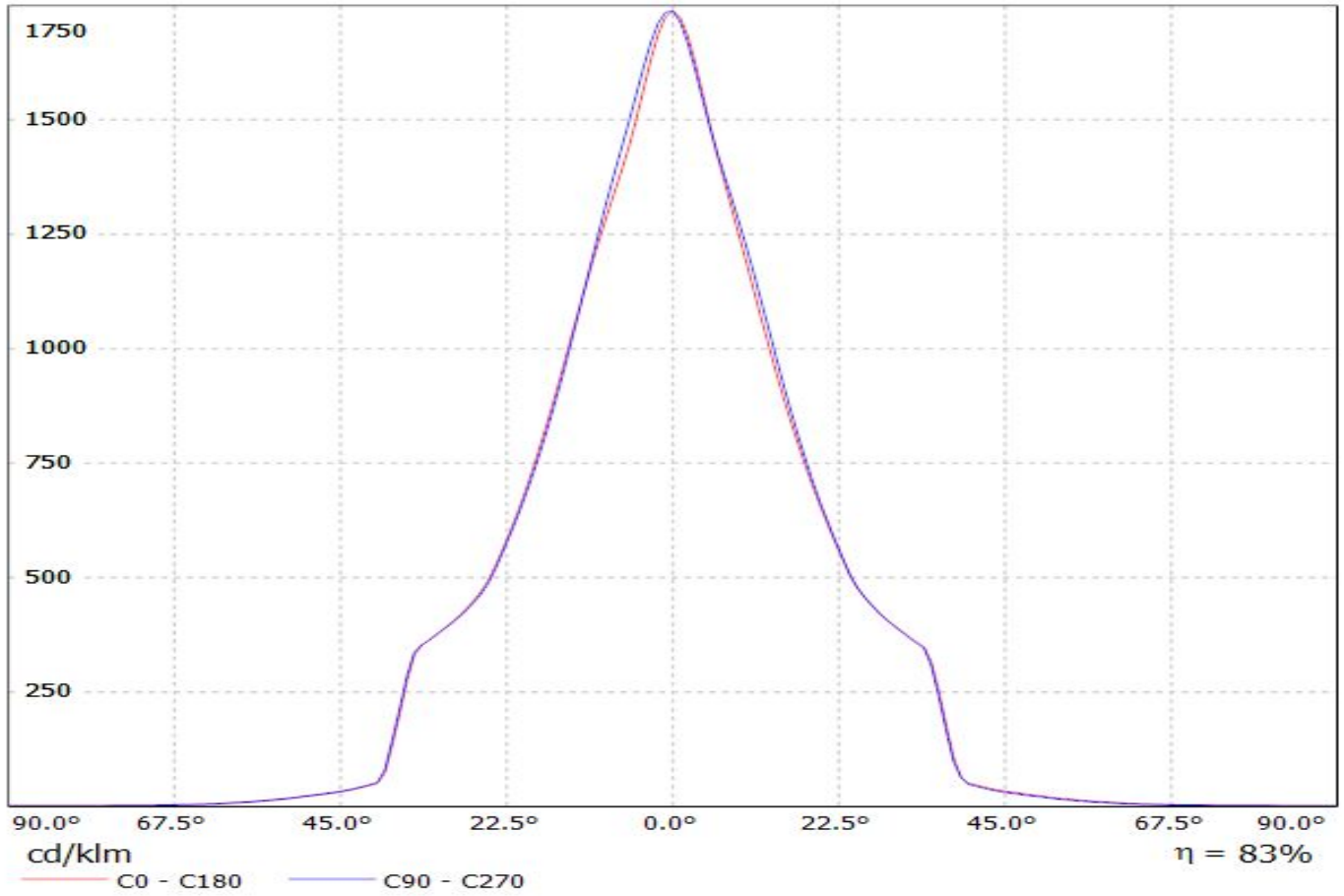
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1

Luminaire: Ledil F13664_ANGELA-W-B_(CITIZEN_CLU720)
Lamps: 1 x CITIZEN_CLU720_(CLU720-1206B8-273M2)
_1320.42lm@250mA_CCT=2700K_P=8.35W_I=0.25A

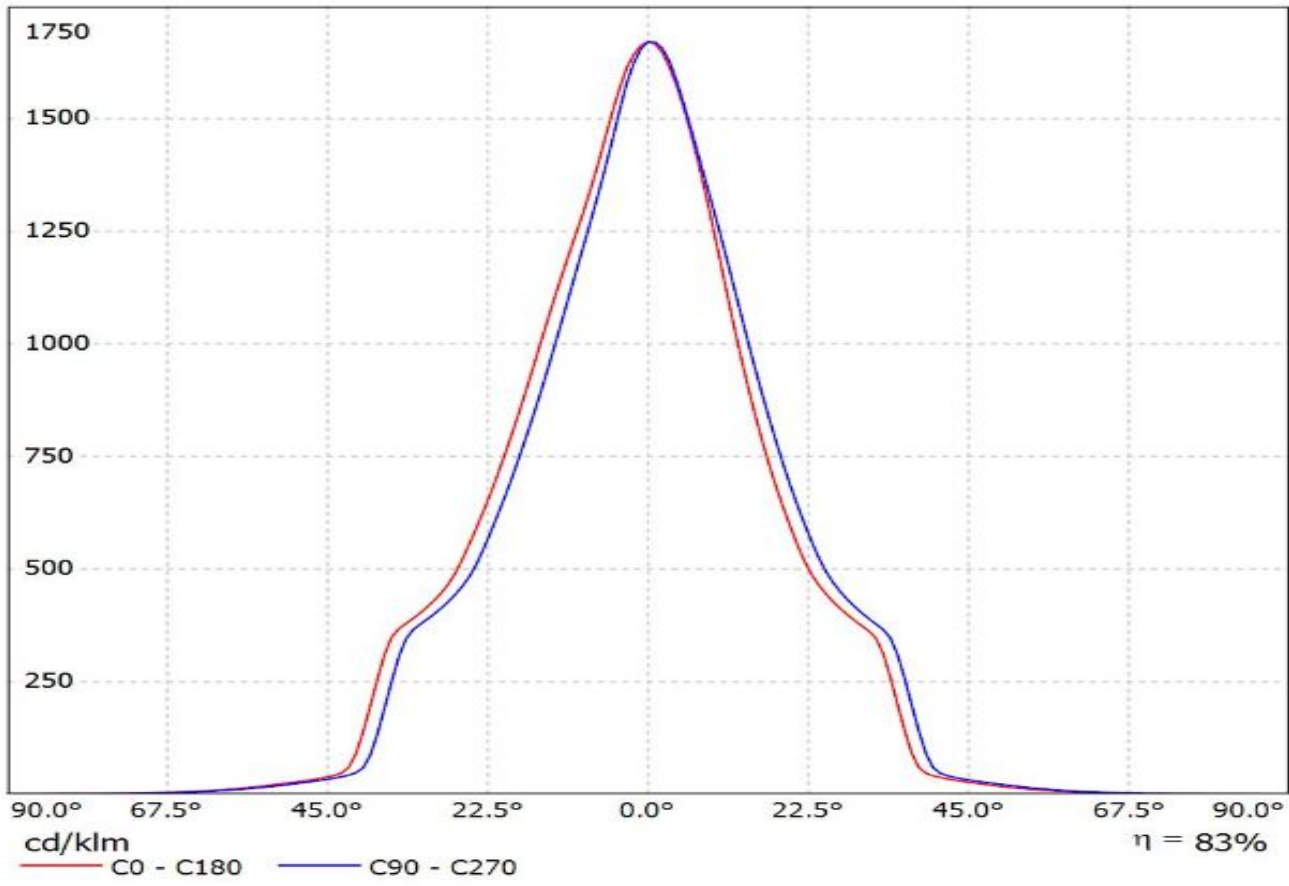


Luminaire: LEDiL Oy F13664_ANGELA-W-B_(CITIZEN_CLU720)
Lamps: 1 x CITIZEN_CLU720_(BJB: 47.319.2020)_1214.68lm@250mA_CCT=2700K_P=8.31842W_I=0.25A

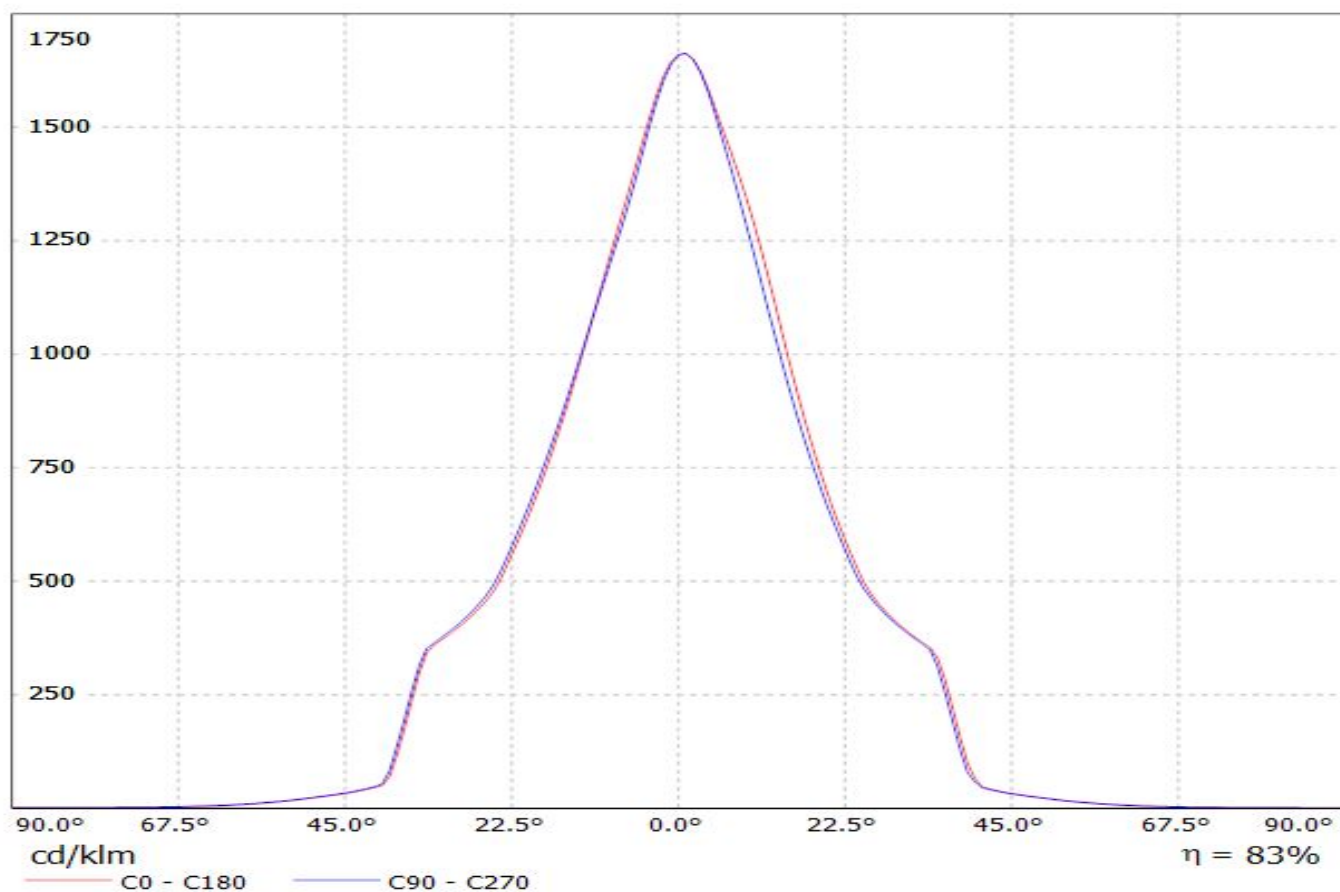


Luminaire: LEDiL Oy F13664_ANGELA-W-B_(SOLERIQ_P13)

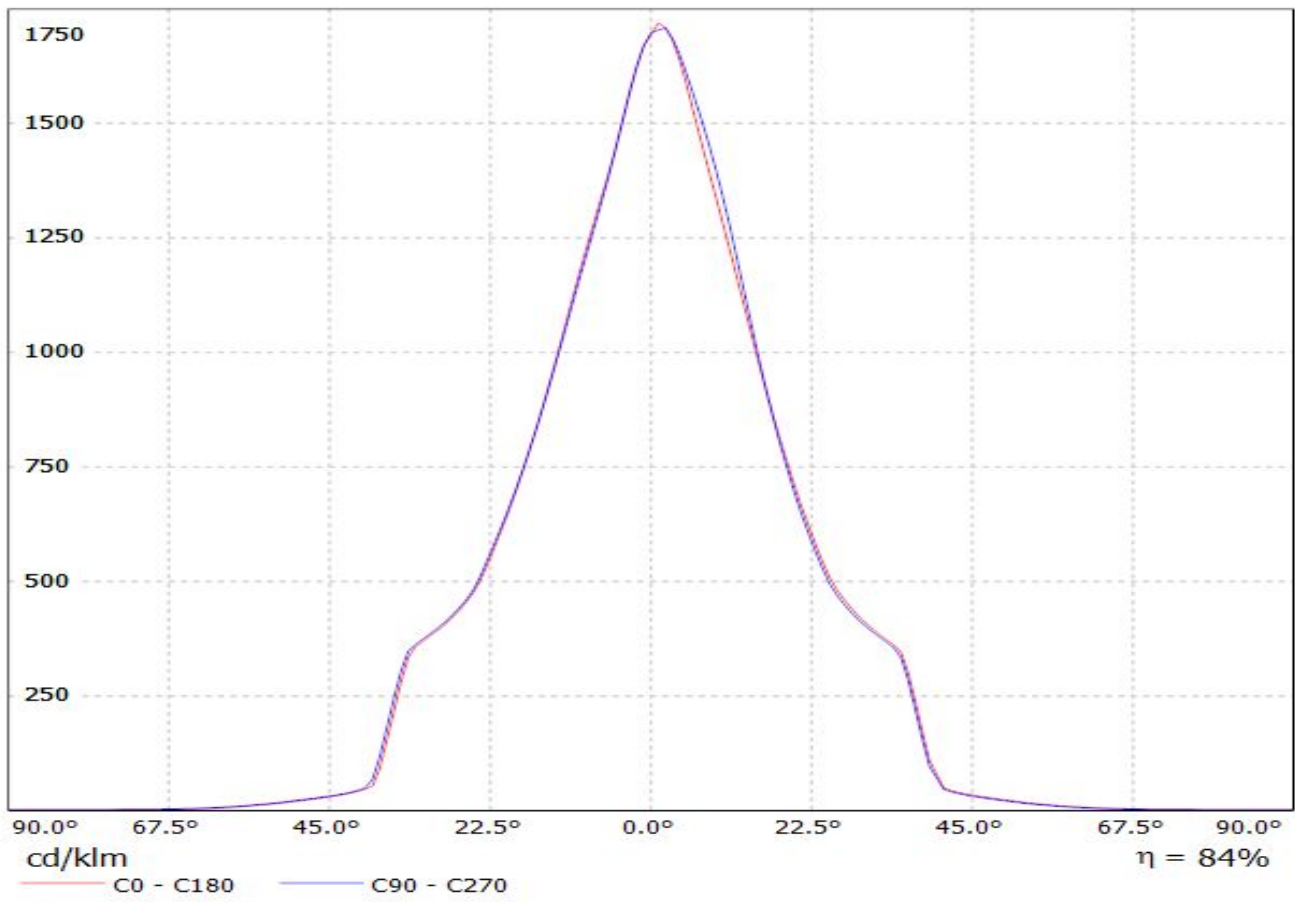
Lamps: 1 x SOLERIQ_P13_(GW_MAGMB1.EM)_1053.65lm@250mA_CCT=3000K_P=8.82044W_I=249.8mA



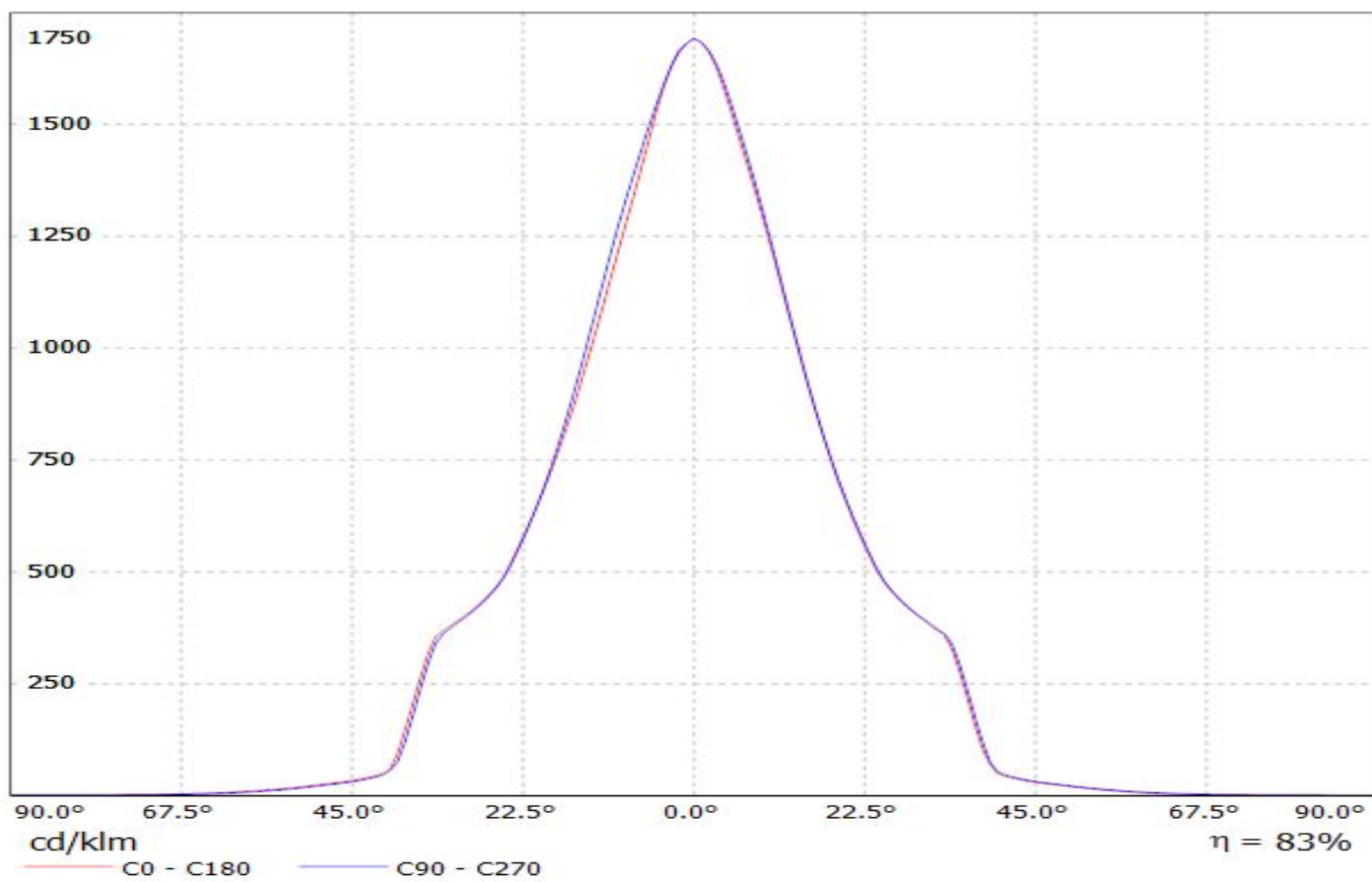
Luminaire: LEDiL Oy F13664_ANGELA-W-B_(Luxeon_CoB_1205)
Lamps: 1 x LUXEON_COB_1205_(LHC1-3080-1205)_1115lm@250mA_CCT=3000K_P=11.183W_I=249.8mA



Luminaire: LEDiL Oy F13664_ANGELA-W-B_(S13) Eff.83.9%
Lamps: 1 x Osram_Soleriq_S13_901.003lm@250mA_P=7.48151W_I=249.9mA

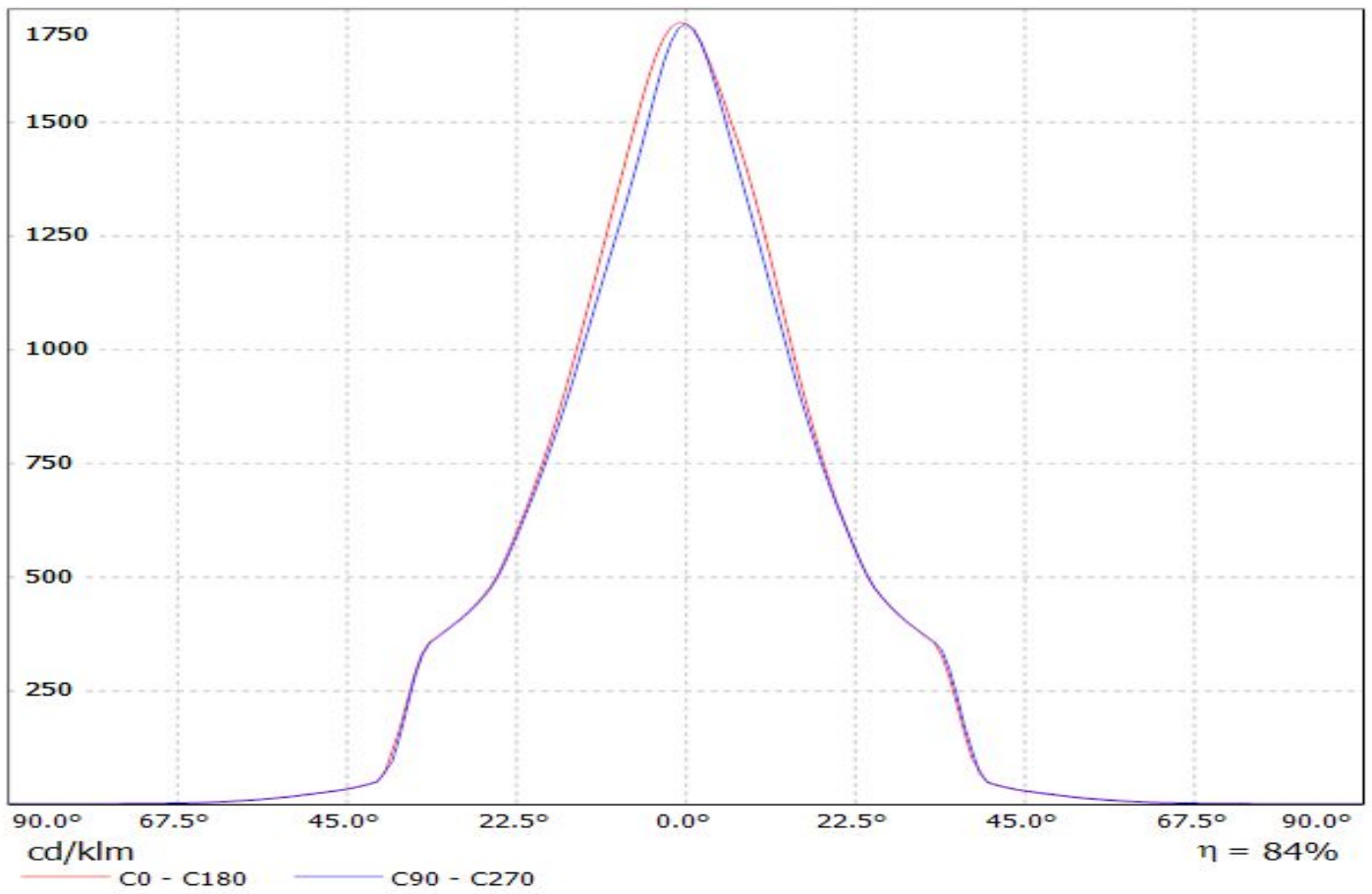


Luminaire: LEDiL Oy F13664_ANGELA-W-B_(CXM-14)
Lamps: 1 x LUMINUS_XNOVA_CXM-14_(AC00)
_1049.18lm@250mA_CCT=3126K_P=8.31834W_I=249.8mA

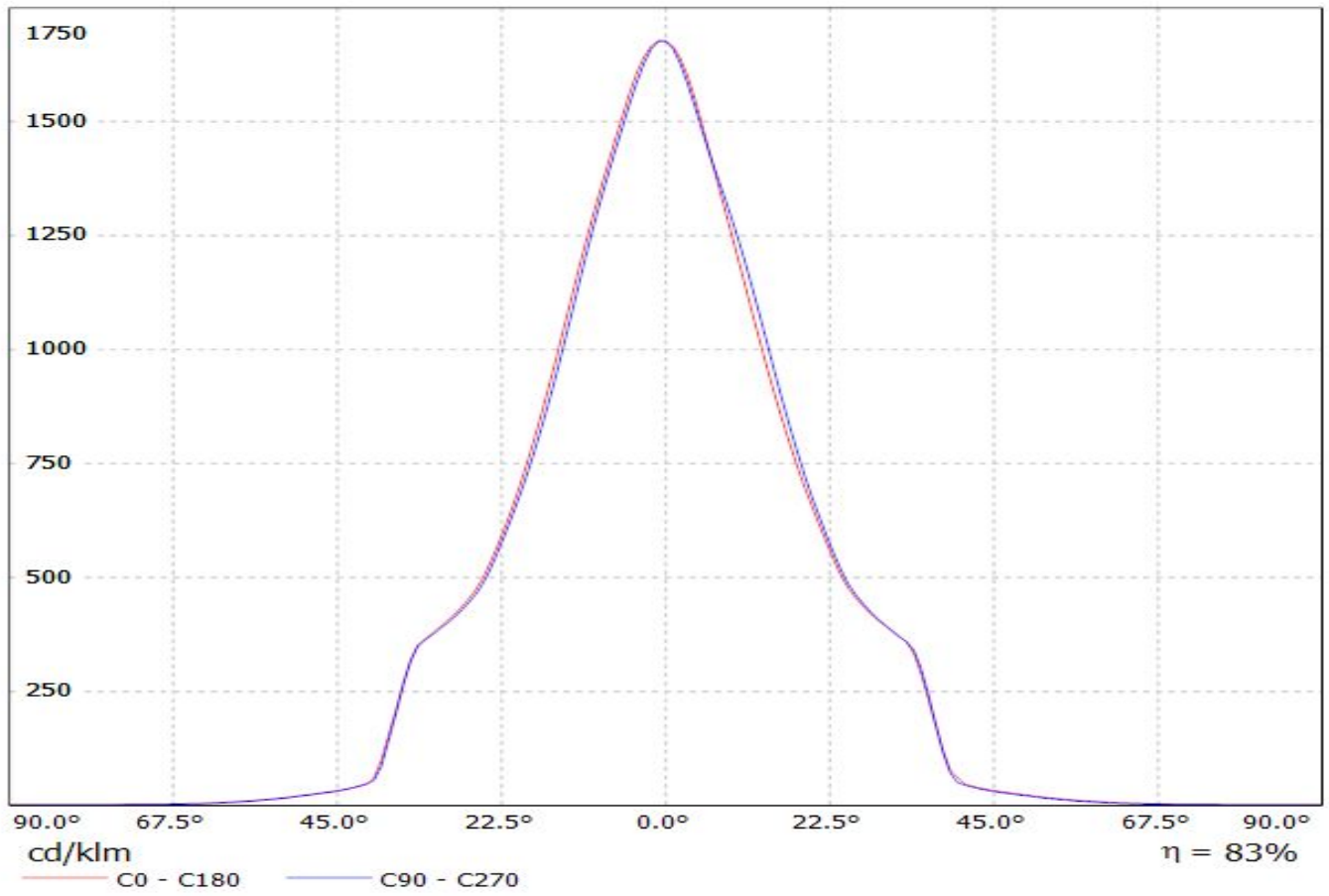


Luminaire: LEDiL Oy F13664_ANGELA-W-B_(COB-10W) Eff 84.0%

Lamps: 1 x LG_COB-10W_1065.85lm@250mA_CCT=5090K_P=9.10871W_I=249.8mA

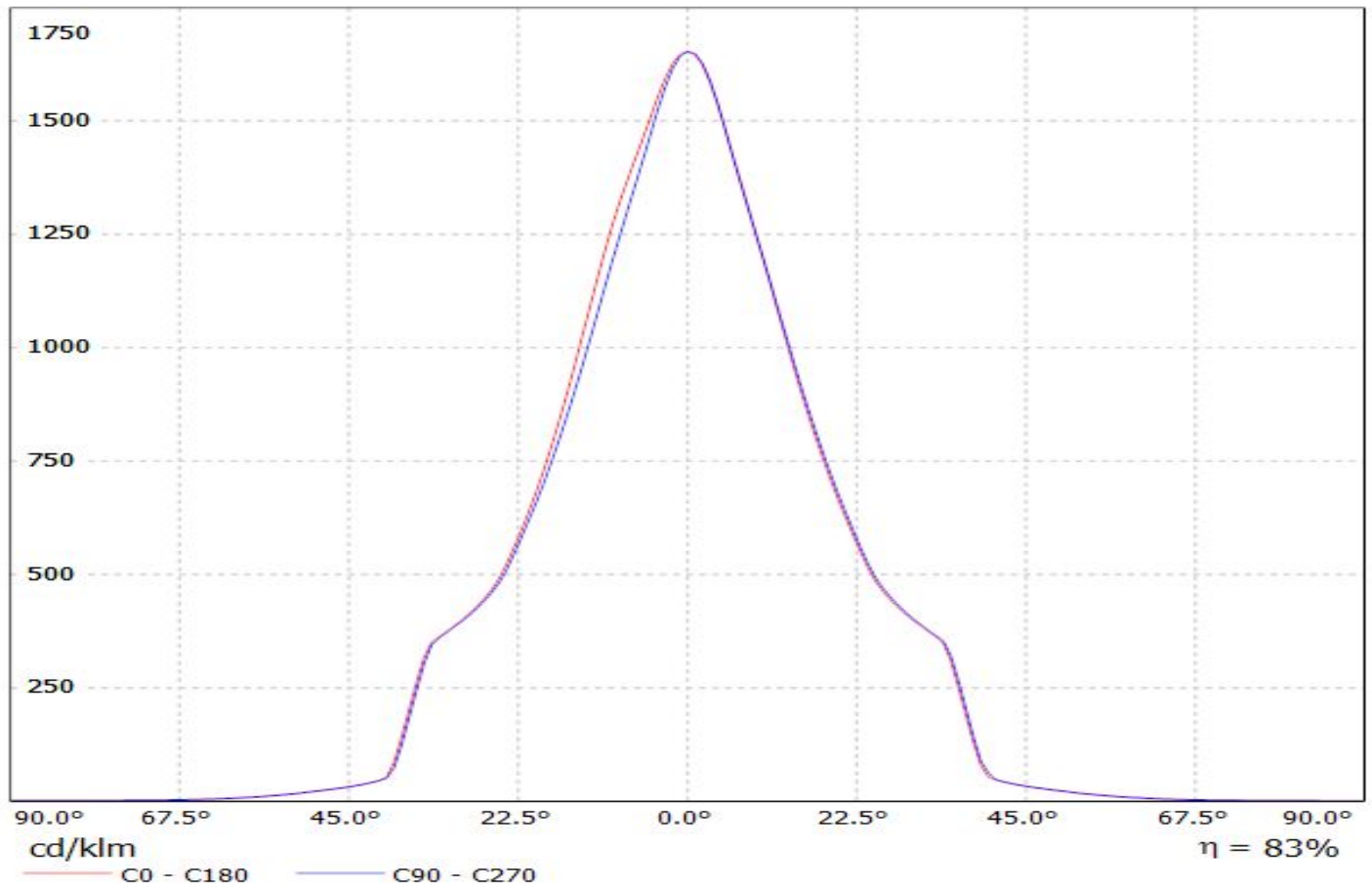


Luminaire: LEDiL Oy F13664_ANGELA-W-B_(CLL030) Eff.83.4%
Lamps: 1 x Citizen_CLL030_1040.57lm@250mA_P=8.45923W_I=249.8mA



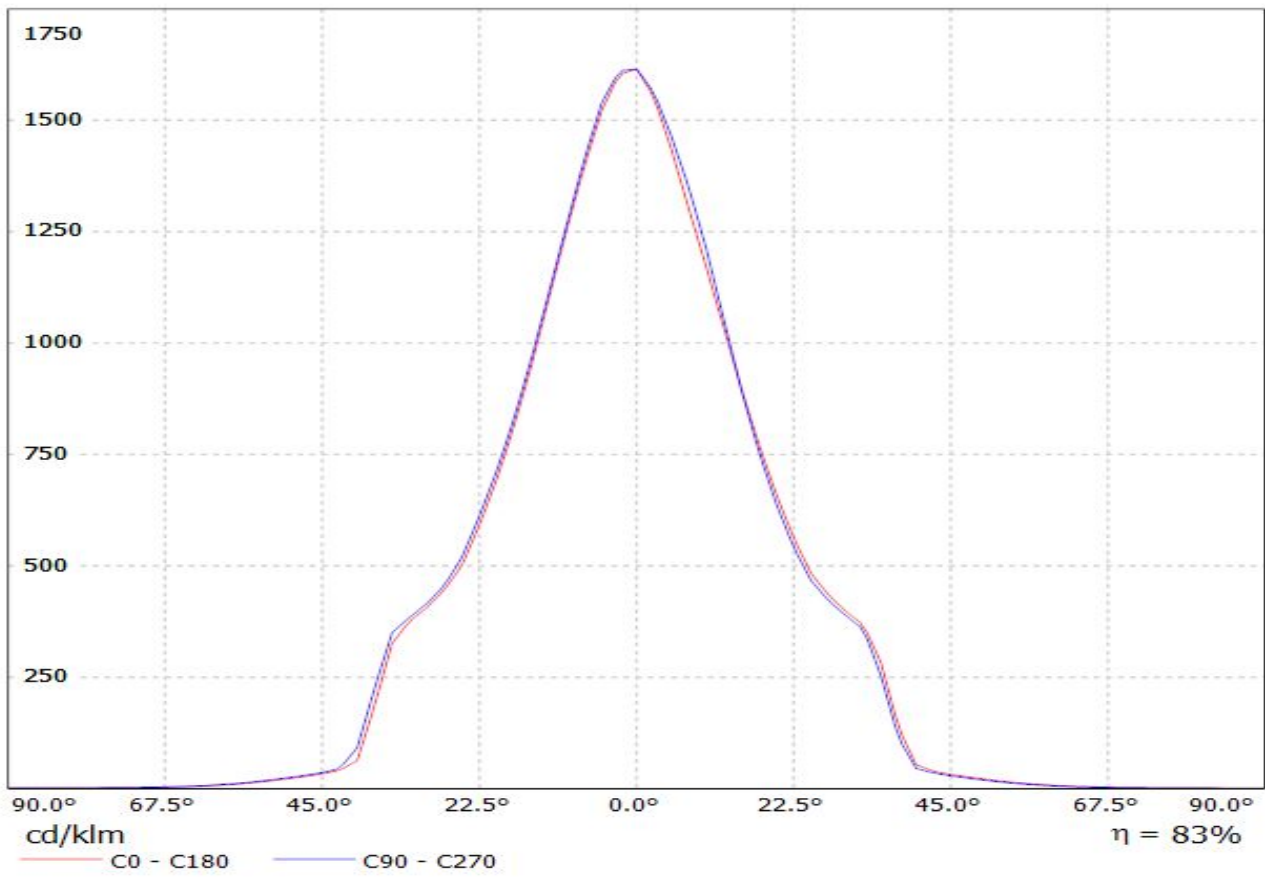
Luminaire: LEDiL Oy F13664_ANGELA-W-B_(LG_COB_10W)

Lamps: 1 x LG_COB_10W_(LEMWM18580LG00)_917.757lm@250mA_P=9.31304W_I=249.8mA



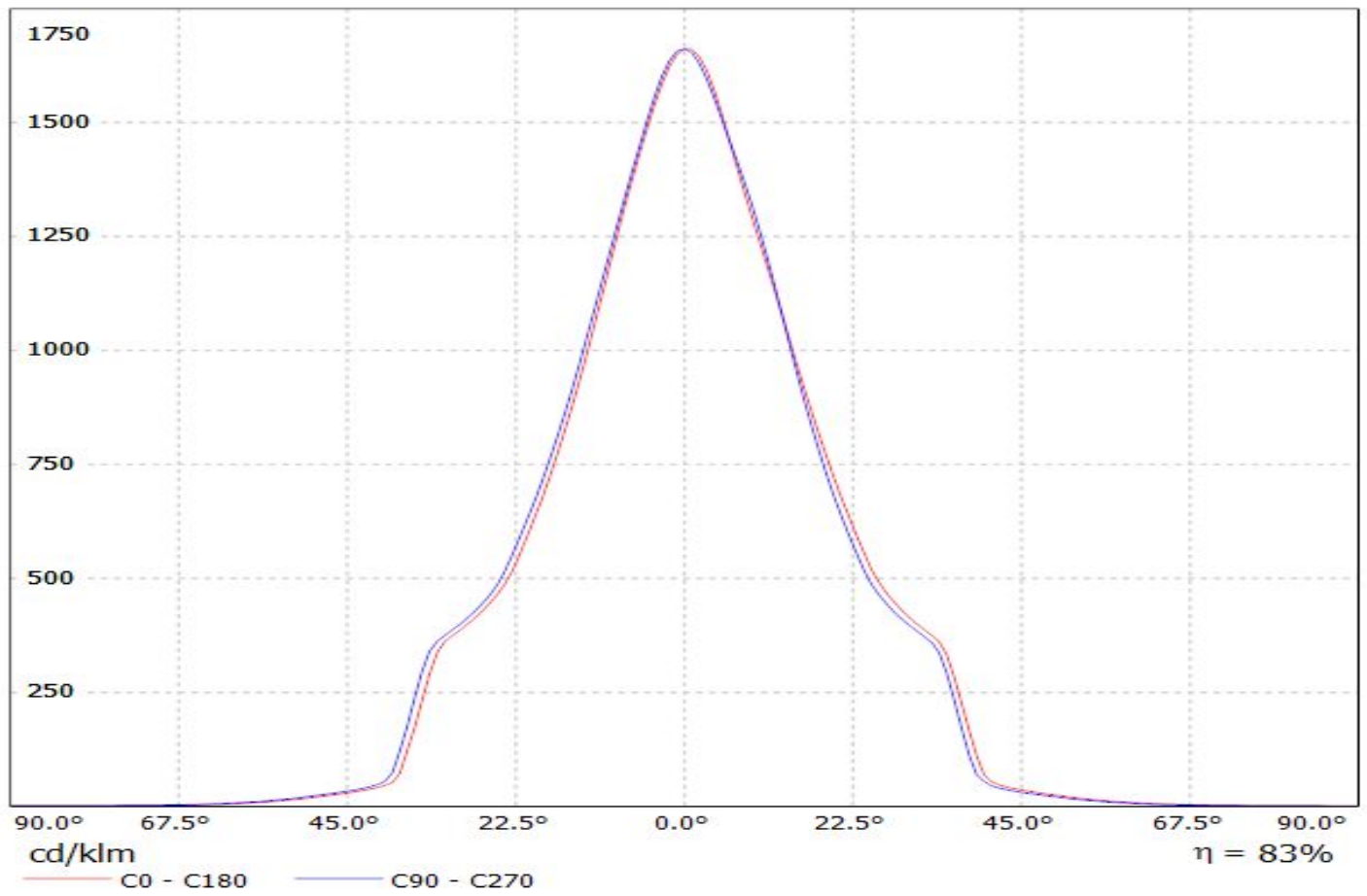
Luminaire: LEDiL Oy F13664_ANGELA-W-B_(CLU034)

Lamps: 1 x Citizen_CLU034_(CLU034-1205B8-303M1A2)_1159.11lm@250mA_P=8.46586W_I=249.9mA

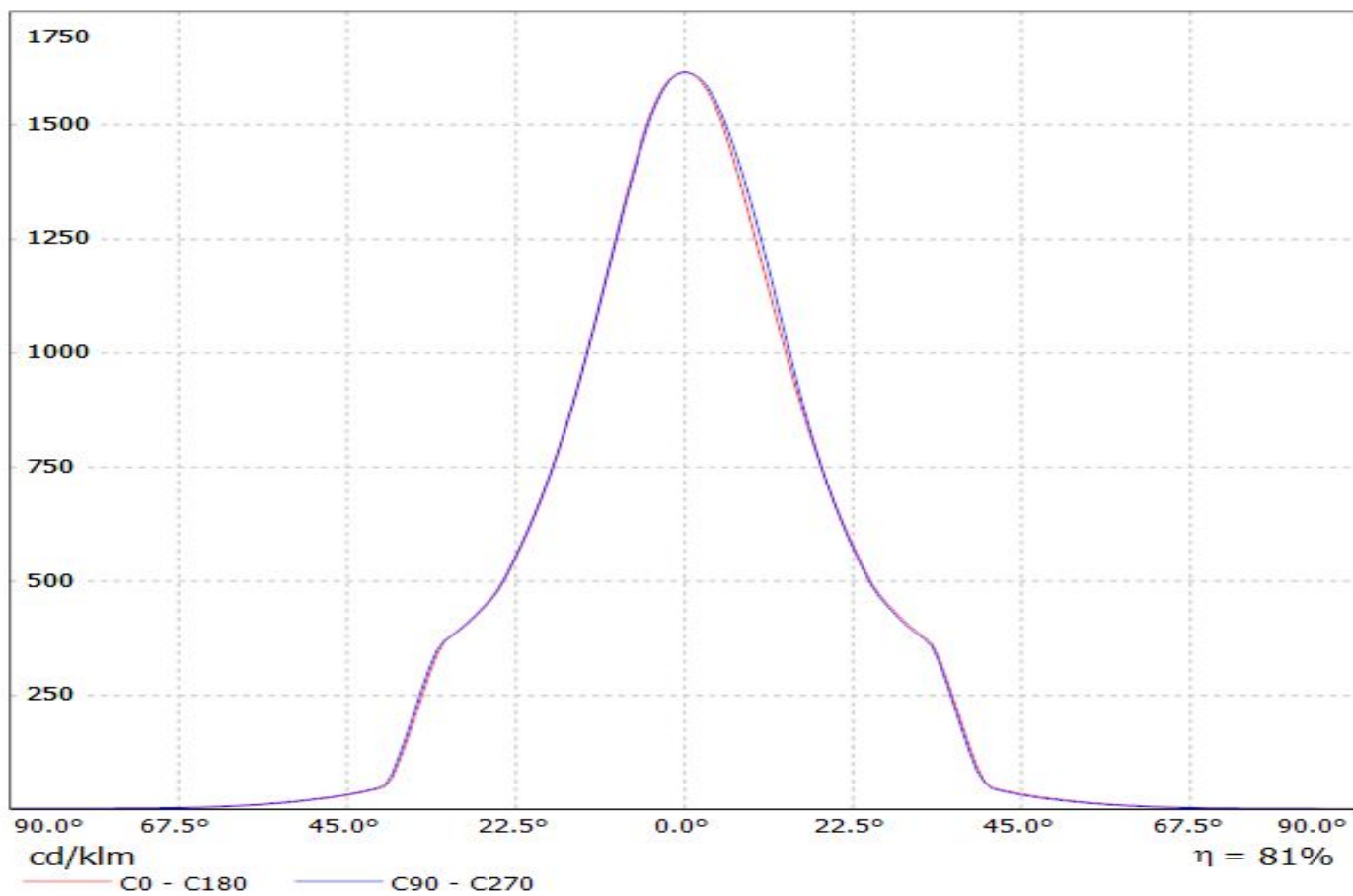


Luminaire: LEDiL Oy F13664_ANGELA-W-B_(ZC12)

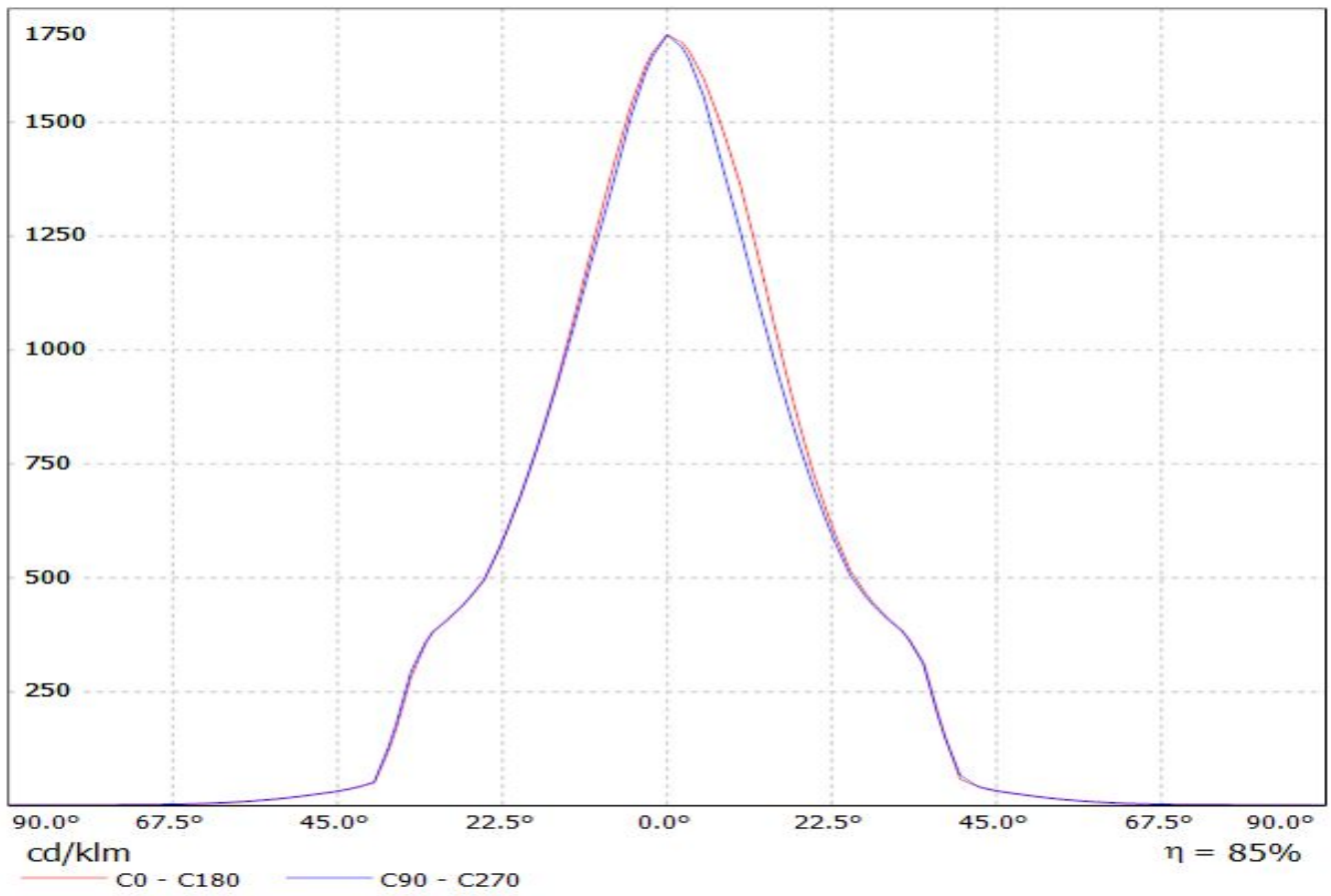
Lamps: 1 x SEOUL_ZC12_(SDW82F1C)_1240.73lm@250mA_P=8.68405W_I=249.8mA



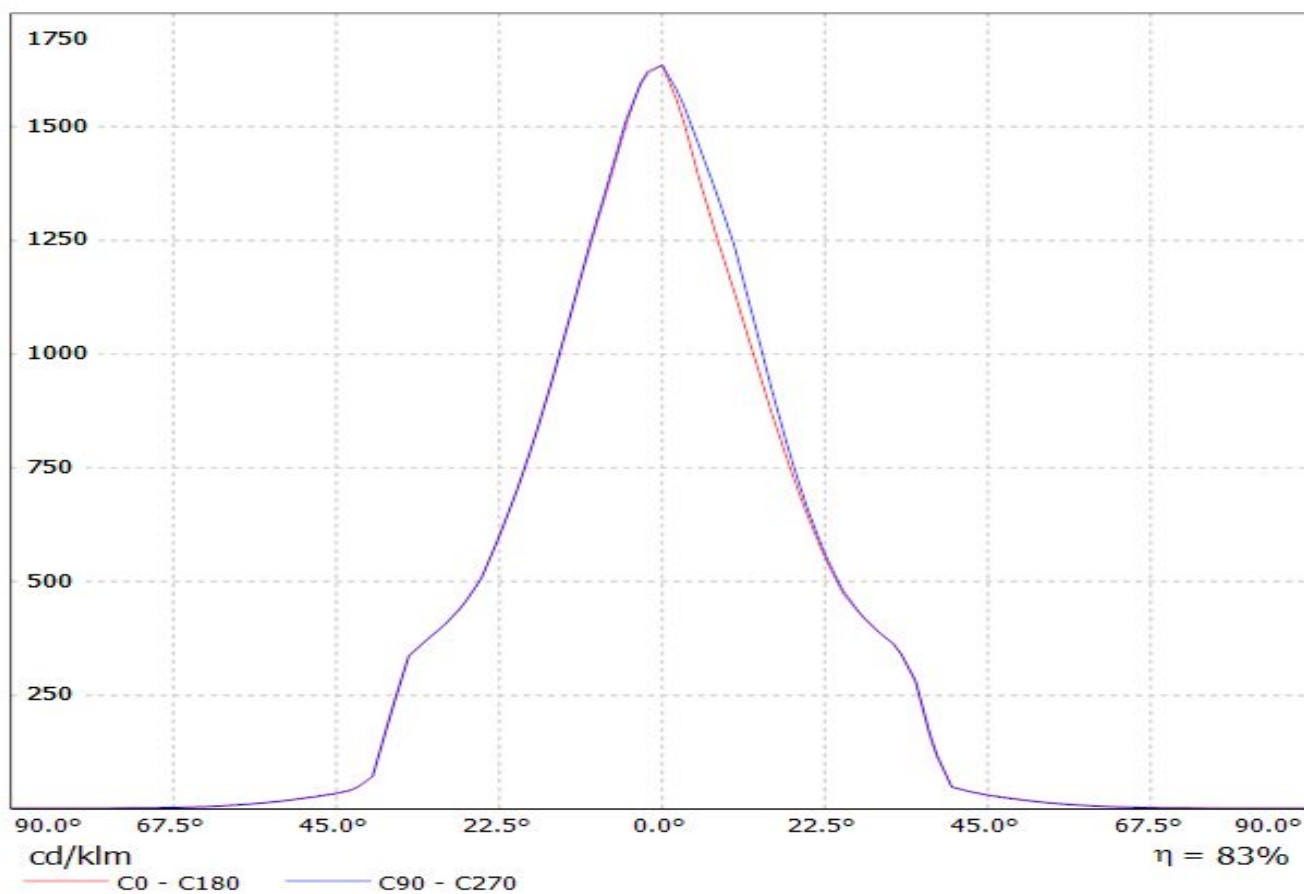
Luminaire: LEDiL Oy F13664_ANGELA-W-B_(SLE GEN4 LES19)
Lamps: 1 x SLE GEN4 LES19_1226.28lm@250mA_P=8.21367W_I=0.2498A



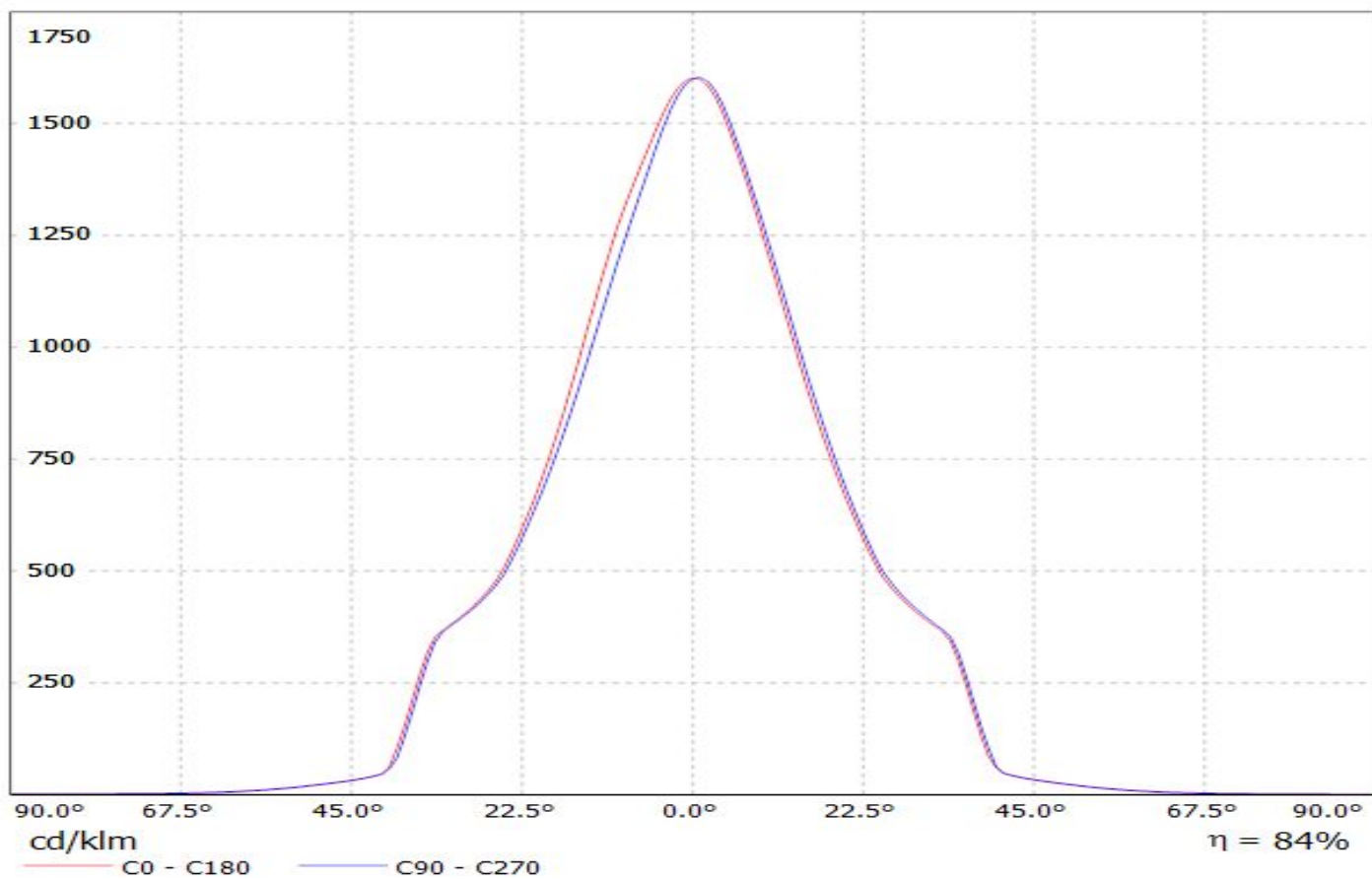
Luminaire: LEDiL Oy F13664_ANGELA-W-B_(MZ) Eff.85.1%
Lamps: 1 x Sharp_Mega_Zenigata_1226.07lm@250mA_P=11.1573W_I=249.8mA



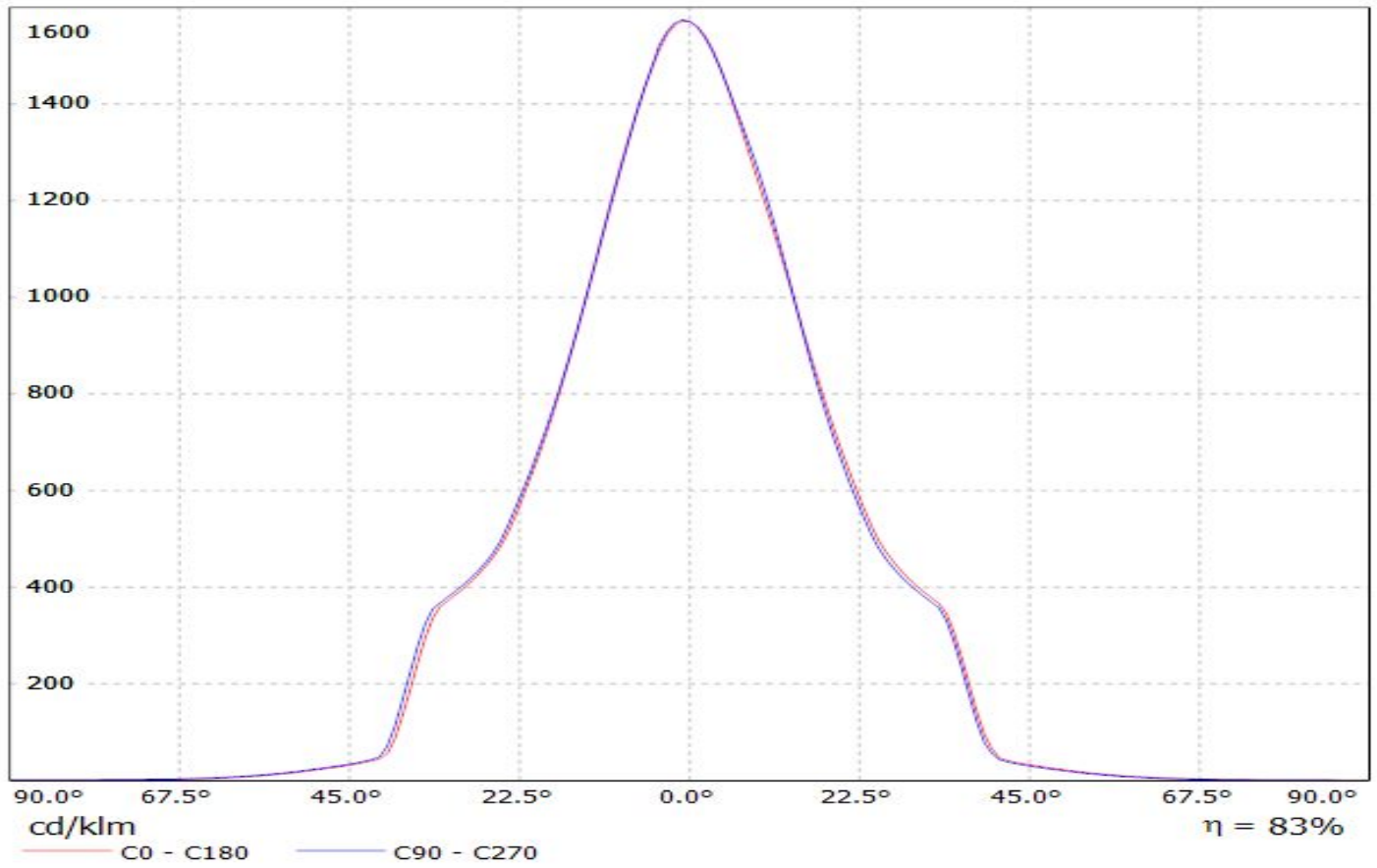
Luminaire: LEDiL Oy F13664_ANGELA-W-B_(BXRA_ES) Eff.83.2%
Lamps: 1 x Bridgelux_BXRA_ES_287.055lm@250mA_P=4.09486W_I=249.9mA



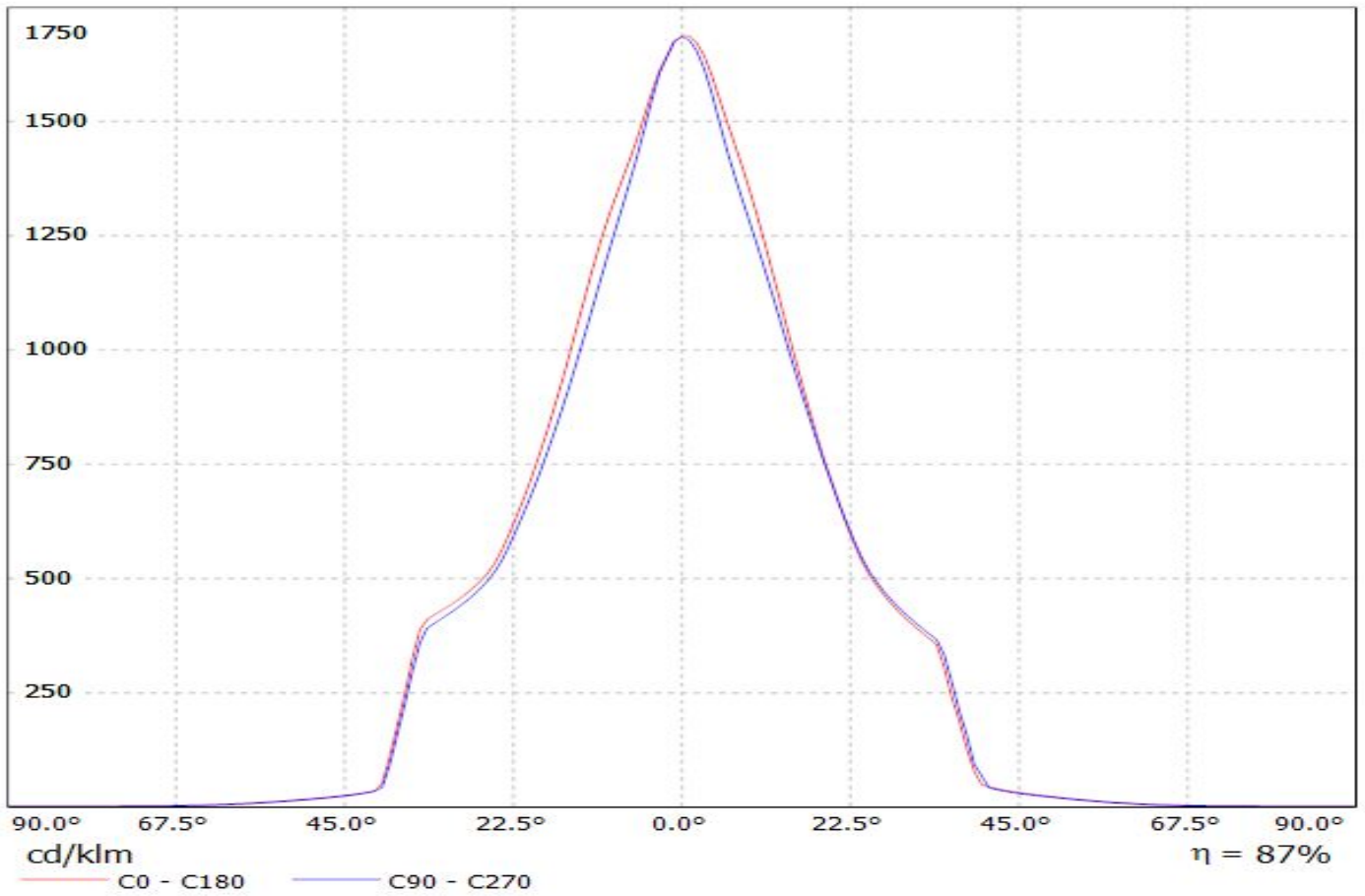
Luminaire: LEDiL Oy F13664_ANGELA-W-B_(MegaZenigata_GW6)
Lamps: 1 x Sharp_MegaZenigata_GW6_(GW6DME30NFC)
_1266.19lm@250mA_CCT=3038K_P=11.2151W_I=250.6mA



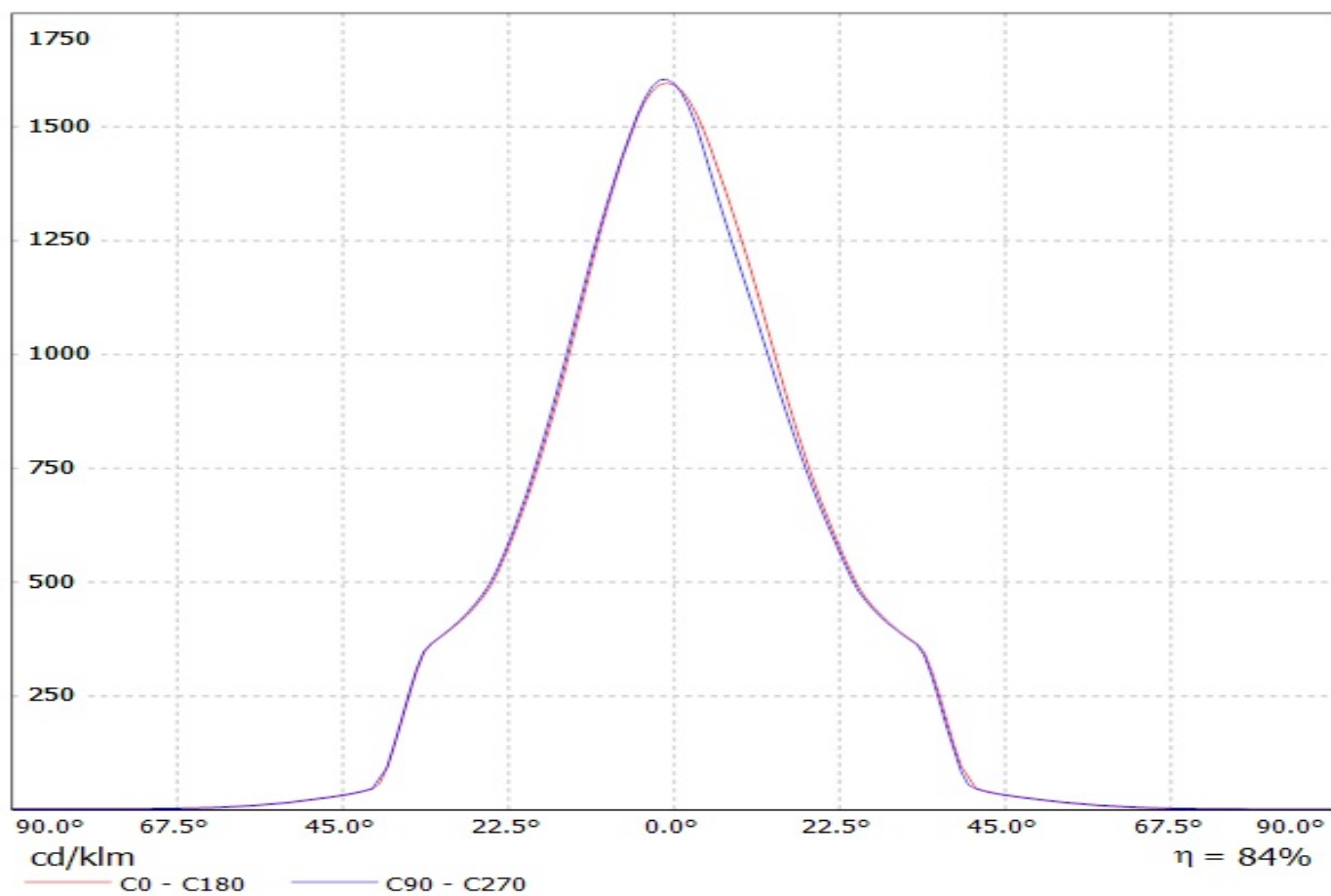
Luminaire: LEDiL Oy F13664_ANGELA-W-B (STARK_SLE_G3_LES17)
Lamps: 1 x TRIDONIC_STARK_SLE_G3_LES17 (STARK-SLE-PURE_G3-17-2000-840-CLA)
_1030.26lm@250mA_CCT=2000K_P=8.34707W_I=249.8mA



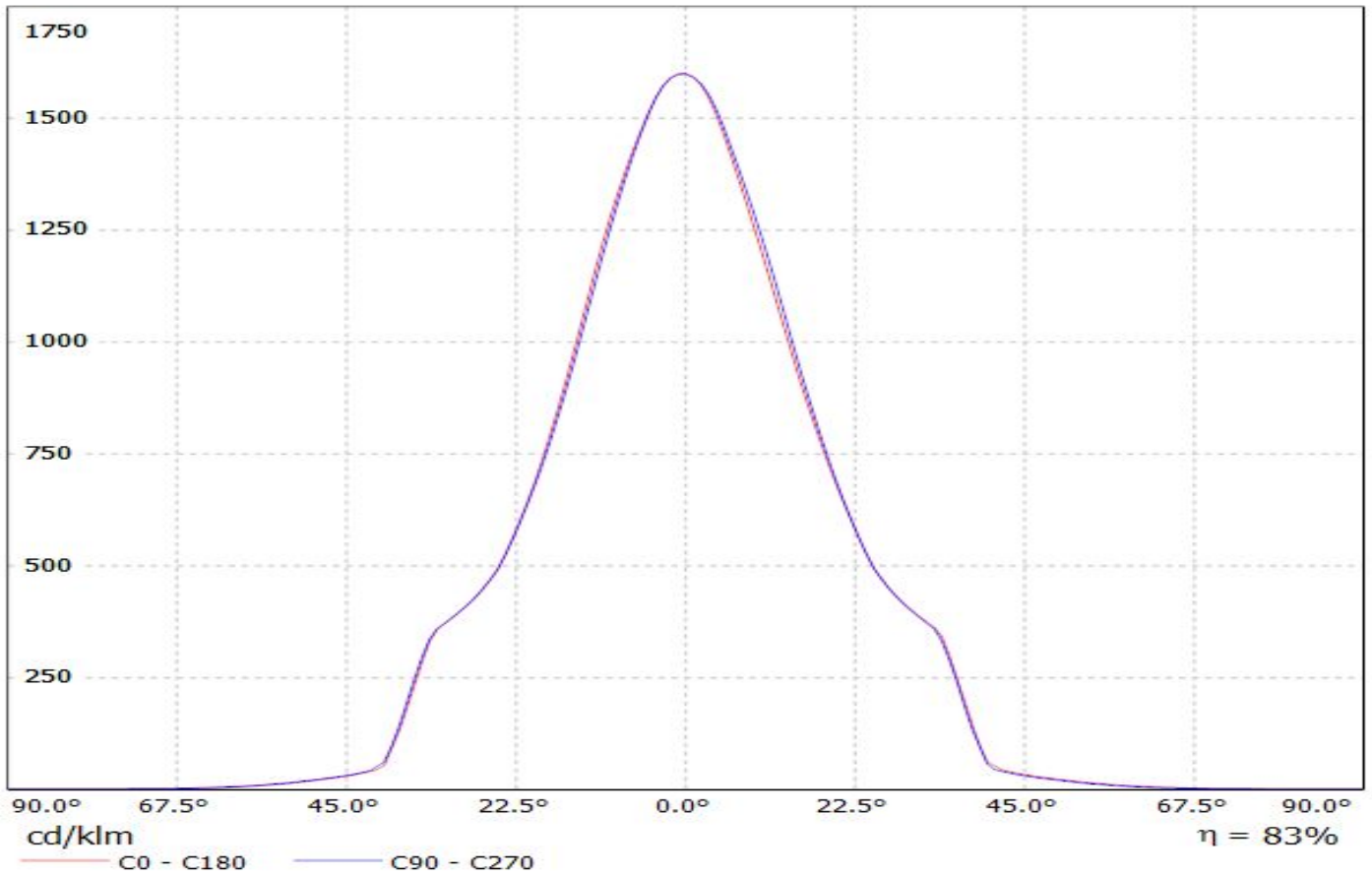
Luminaire: LEDiL Oy F13664_ANGELA-W-B_(K12) Eff.86.9%
Lamps: 1 x Luxeon_K12_933.514lm@250mA_P=8.21721W_I=249.9mA



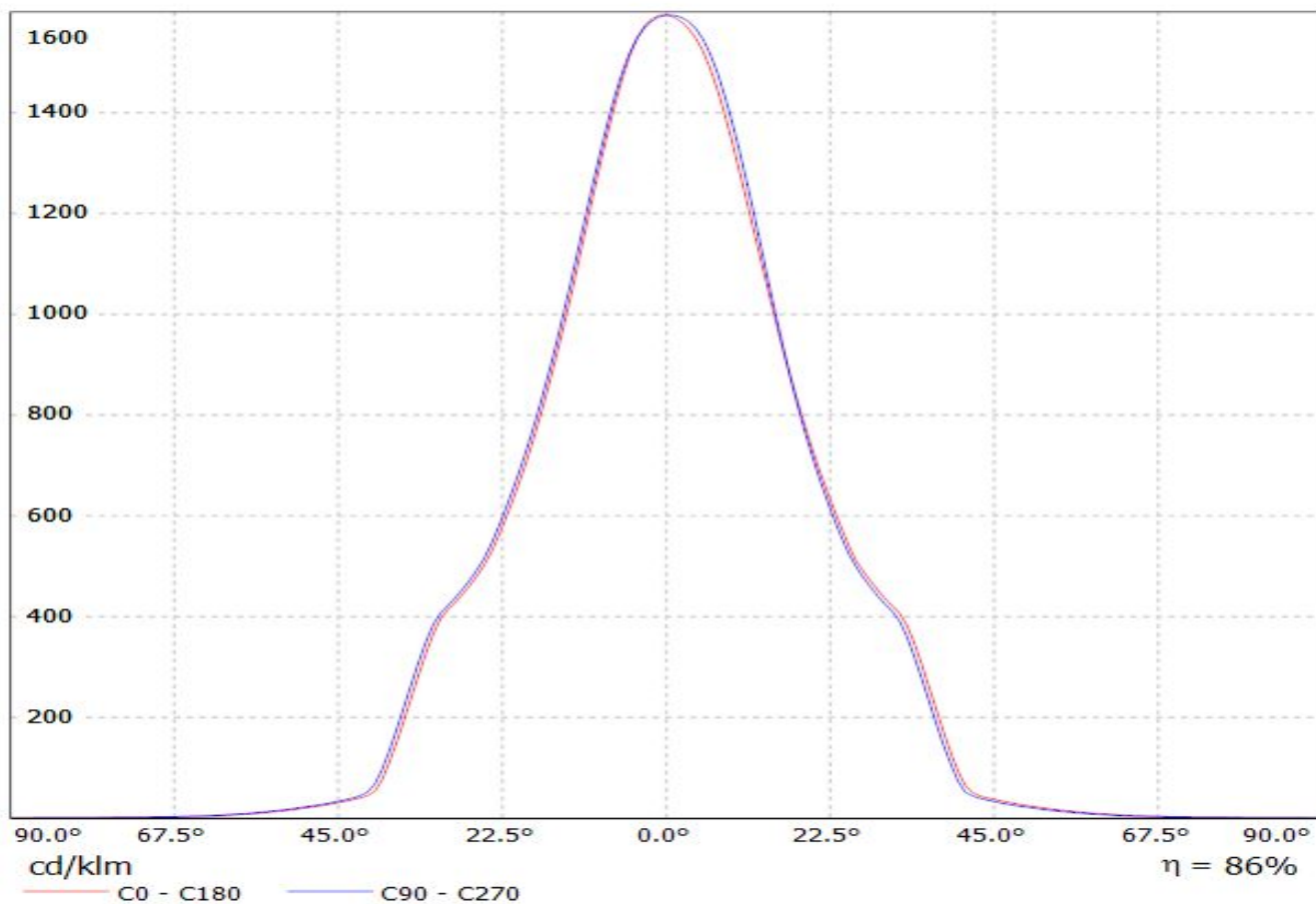
Luminaire: LEDiL Oy F13664_ANGELA-W-B (Luxeon_CoB_1208)
Lamps: 1 x Luxeon_CoB_1208_1045.92lm@250mA_P=8.25314W_I=249.8mA



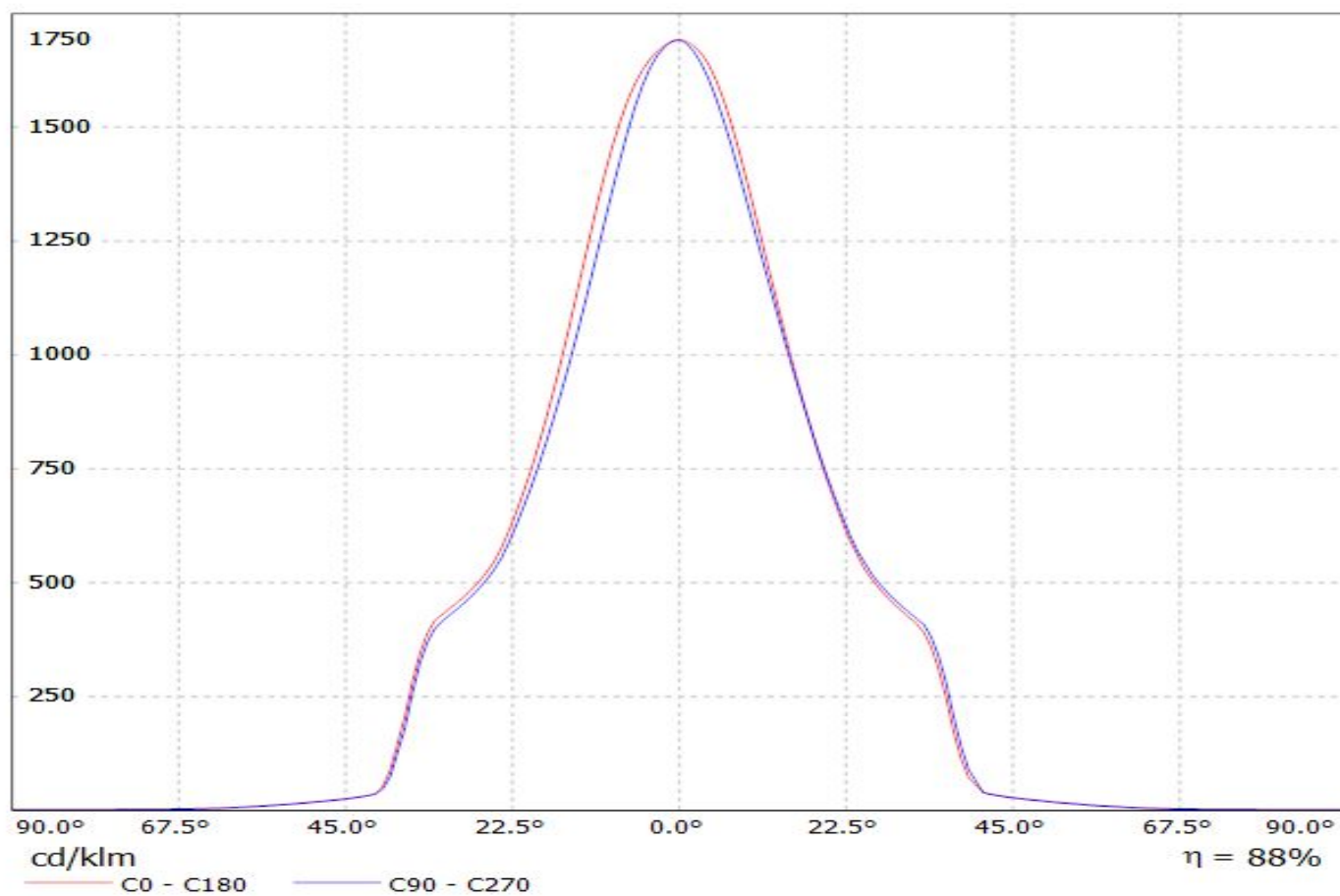
Luminaire: LEDiL Oy F13664_ANGELA-W-B_(Soleriq S19) Eff.83.4%
Lamps: 1 x OSRAM_SOLERIQ_S19_(GW_KAHJB1.EM)
_1445.44lm@250mA_CCT=3000K_P=10.558W_I=249.8mA



Luminaire: LEDiL Oy F13664_ANGELA-W-B (SLE_G4_LES23)
Lamps: 1 x Tridonic_SLE_G4_LES23_1354.57lm@250mA_P=8.18744W_I=0.2498A

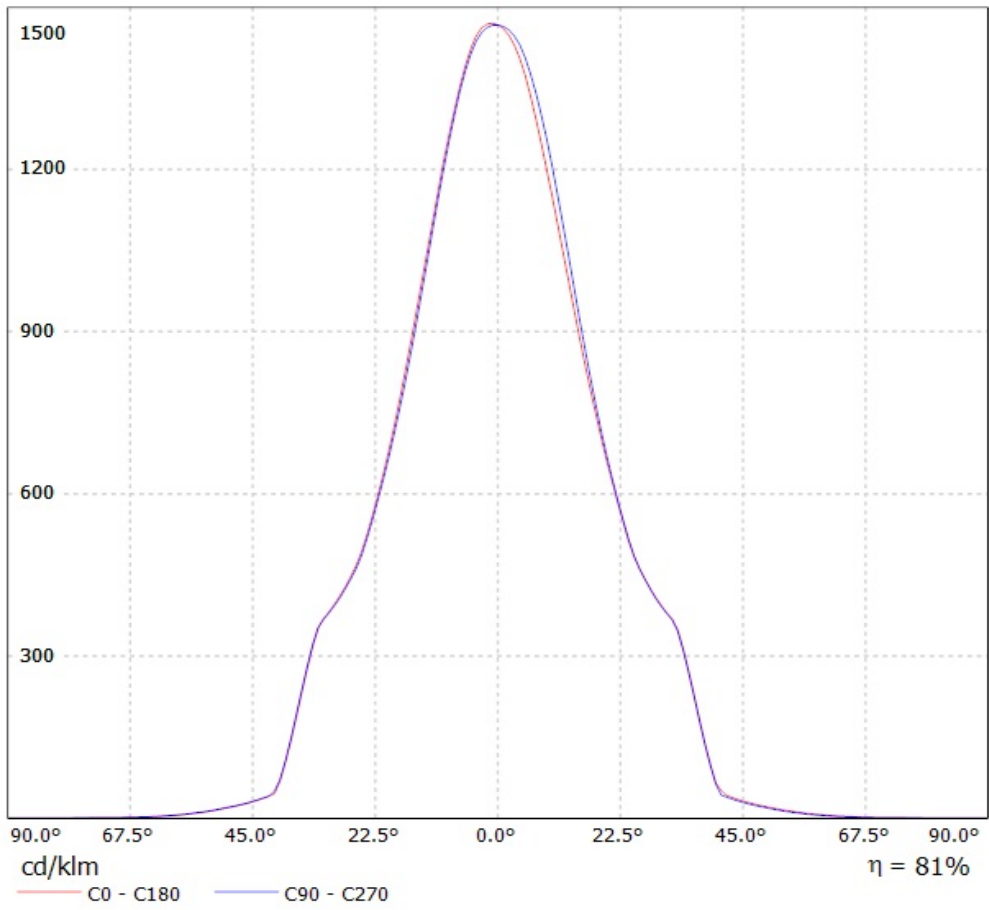


Luminaire: LEDiL Oy F13664_ANGELA-W-B_(K16) Eff.88.4%
Lamps: 1 x Luxeon_K16_1224.2lm@250mA_P=10.8991W_U=249.9mA

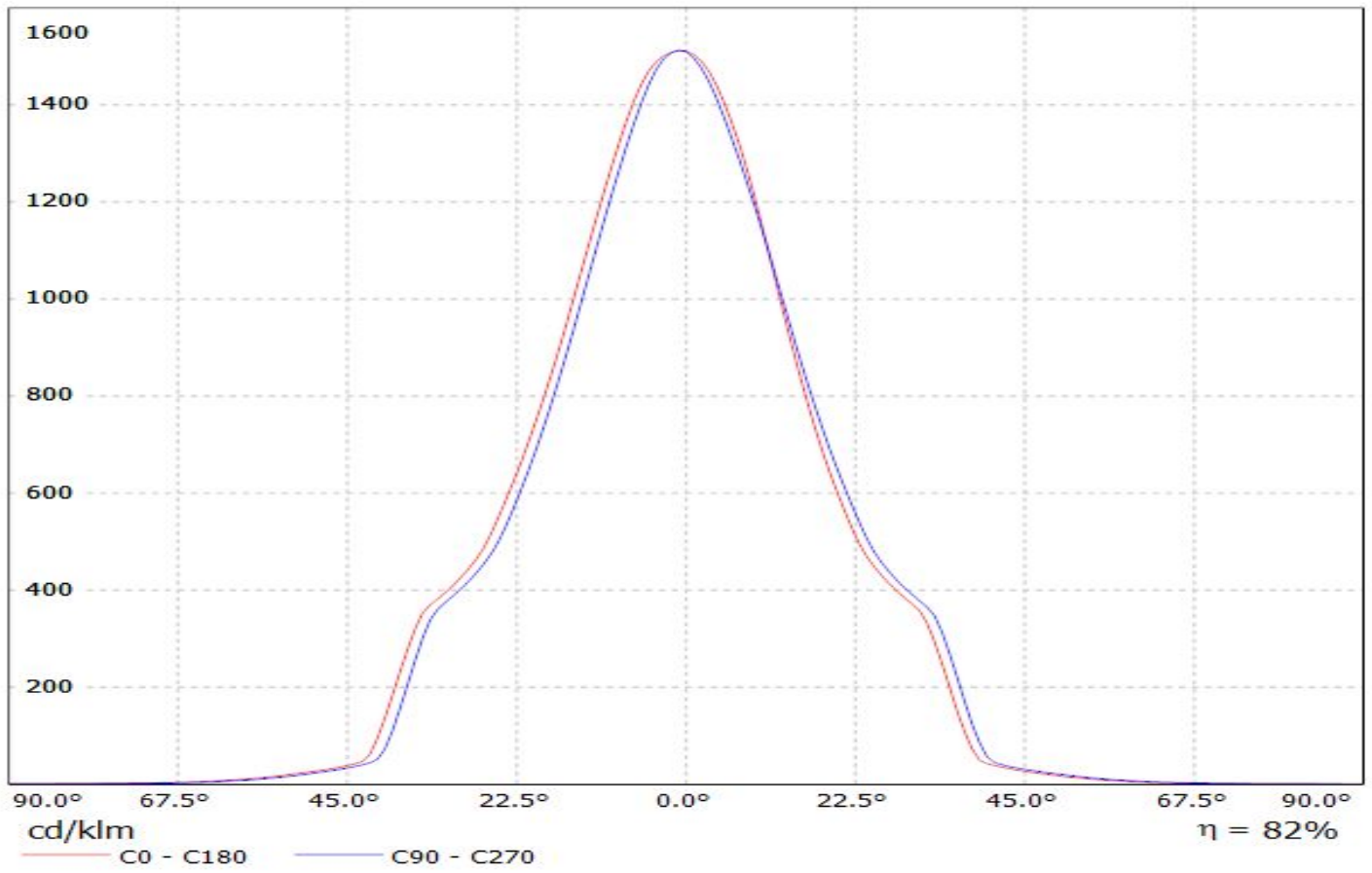


Luminaire: LEDiL Oy F13664_ANGELA-W-B_(Luxeon_CoB_1211)_(BJB2030)

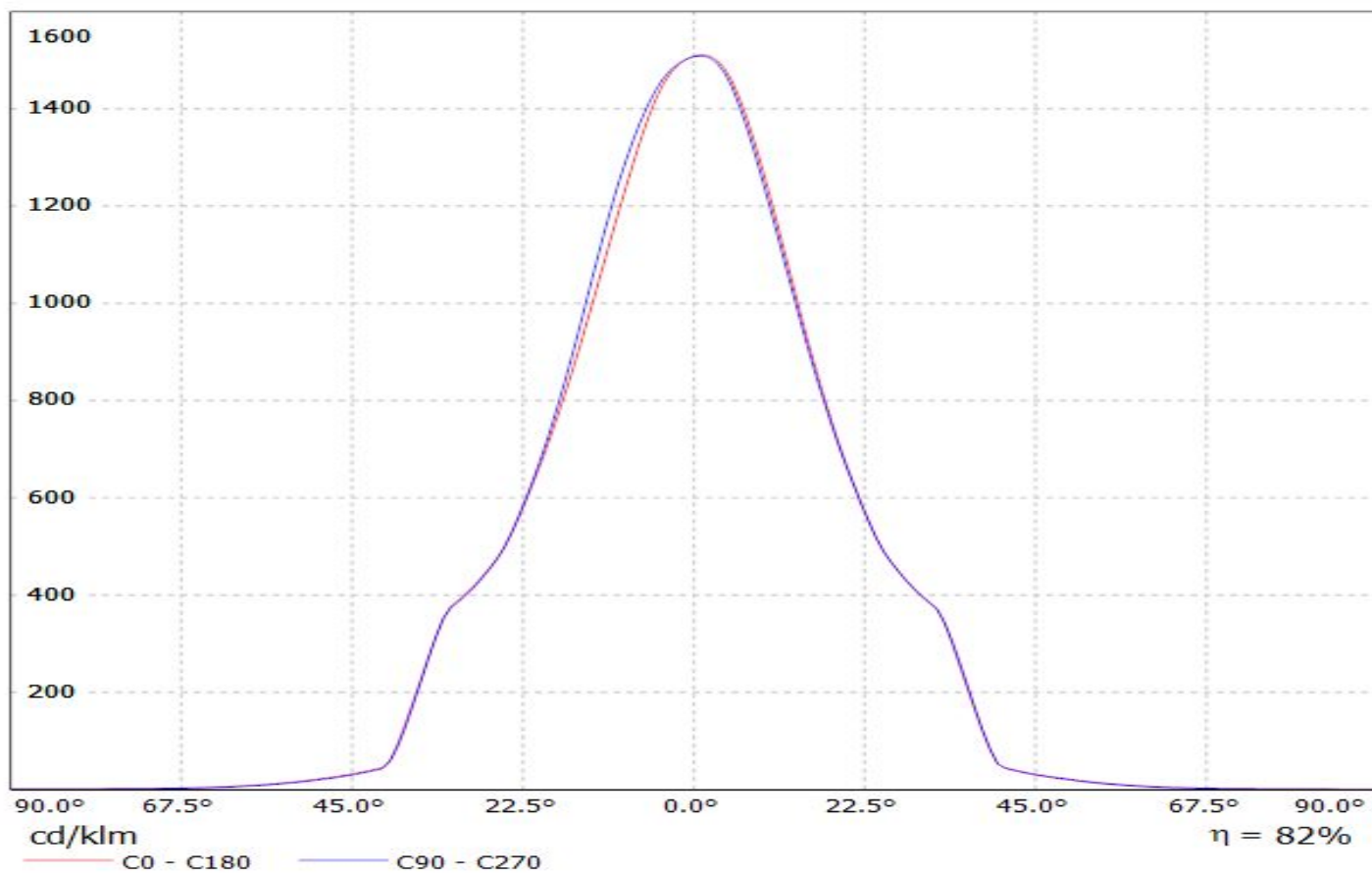
Lamps: 1 x Philips_Lumileds_Luxeon_CoB_1211_(LHC1-5780-1211)_(BJB2030)_1332.46lm@250mA_CCT(approx.)=5700K_P=8.03332W_I=0.2498A



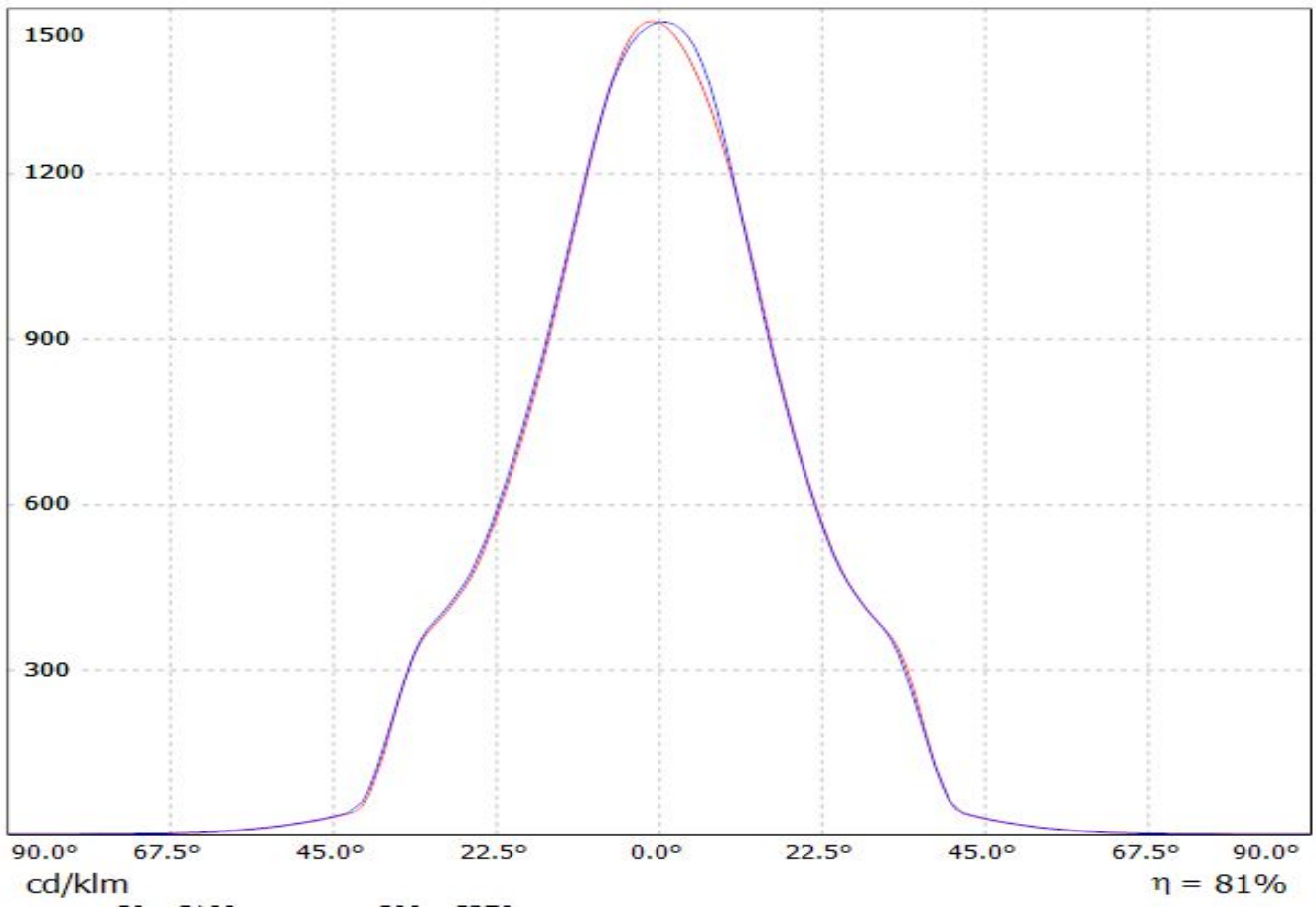
Luminaire: LEDiL Oy F13664_ANGELA-W-B_(CXA2590)
Lamps: 1 x CREE_CXA2590_(CXA2590-30F-Z4-RPH-00001)
_837.275lm@100mA_CCT=3000K_P=6.36316W_I=100.1mA



Luminaire: LEDiL Oy F13664_ANGELA-W-B (Luxeon_CoB_1211)
Lamps: 1 x LUXEON_COB_1211 (LHC1-2790-1211)
_923.583lm@250mA_CCT=2700K_P=8.00909W_I=249.8mA

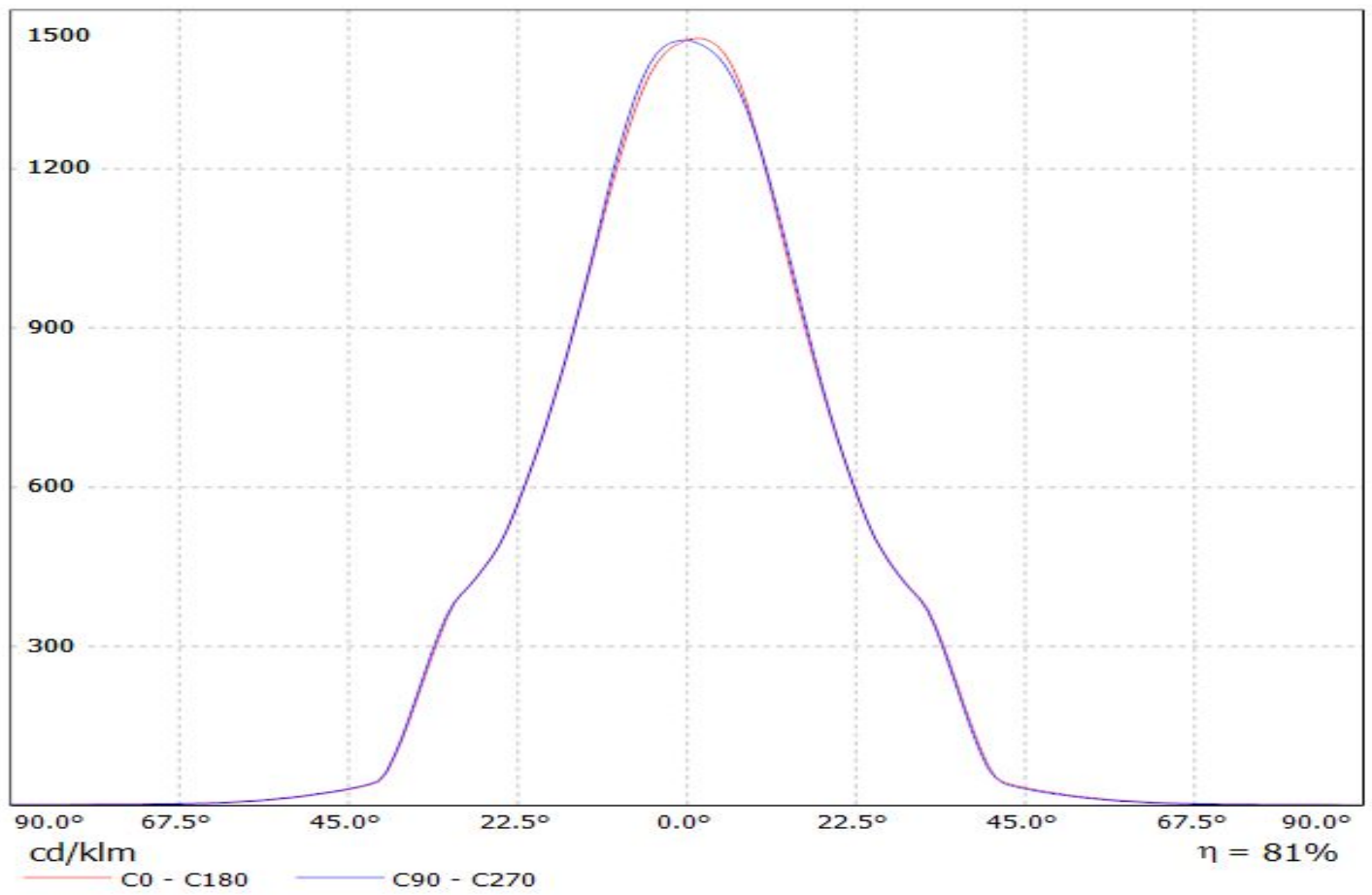


Luminaire: LEDiL Oy F13664_ANGELA-W-B_(E30) Eff.81.5%
Lamps: 1 x Osram_Soleriq_E30_1364.86lm@250mA_P=10.2445W_I=249.8mA

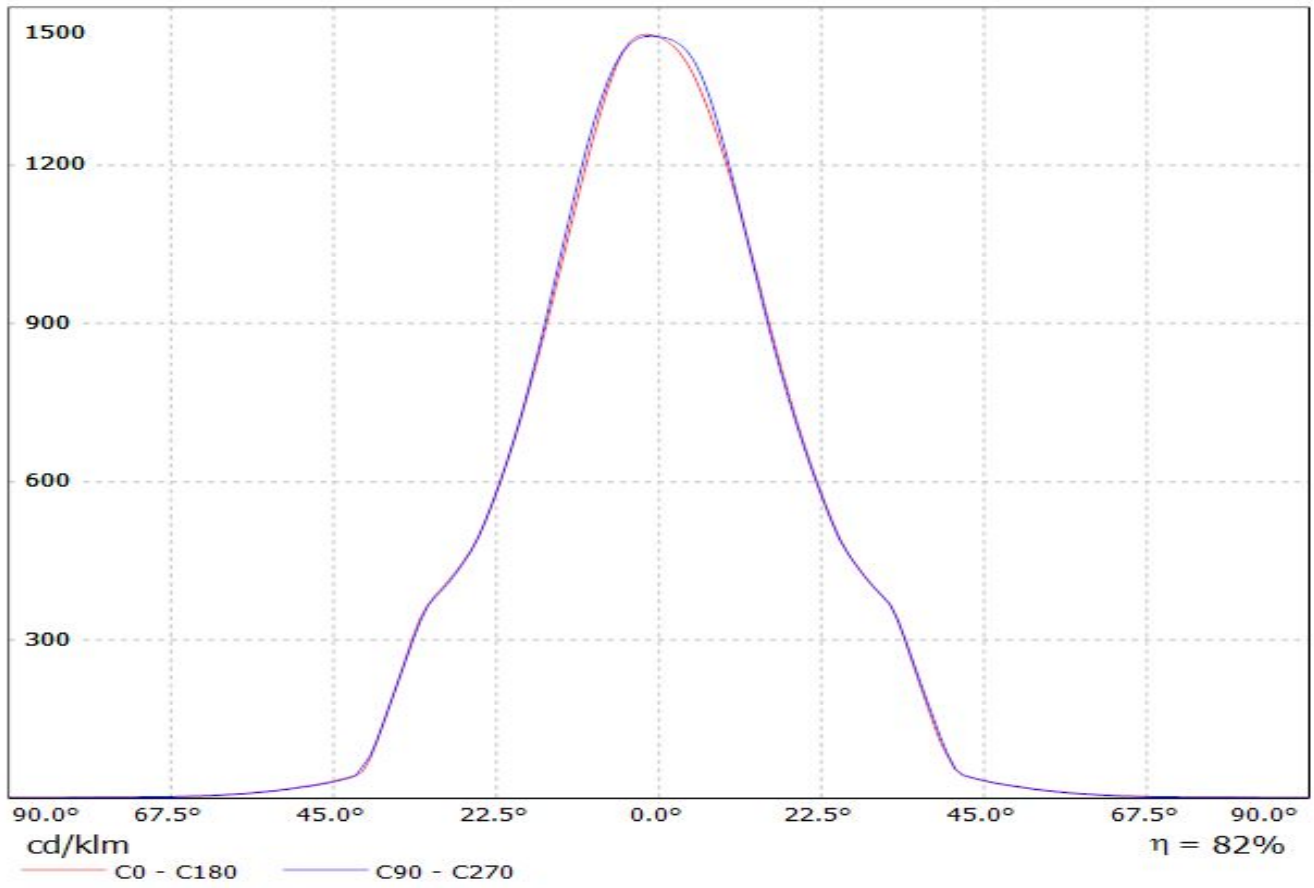


Luminaire: LEDiL Oy F13664_ANGELA-W-B_(CXA30)

Lamps: 1 x Cree_CXA30_(CXA3050-3C0-Y2-N0H)_1395.36lm@250mA_P=8.20318W_I=249.8mA

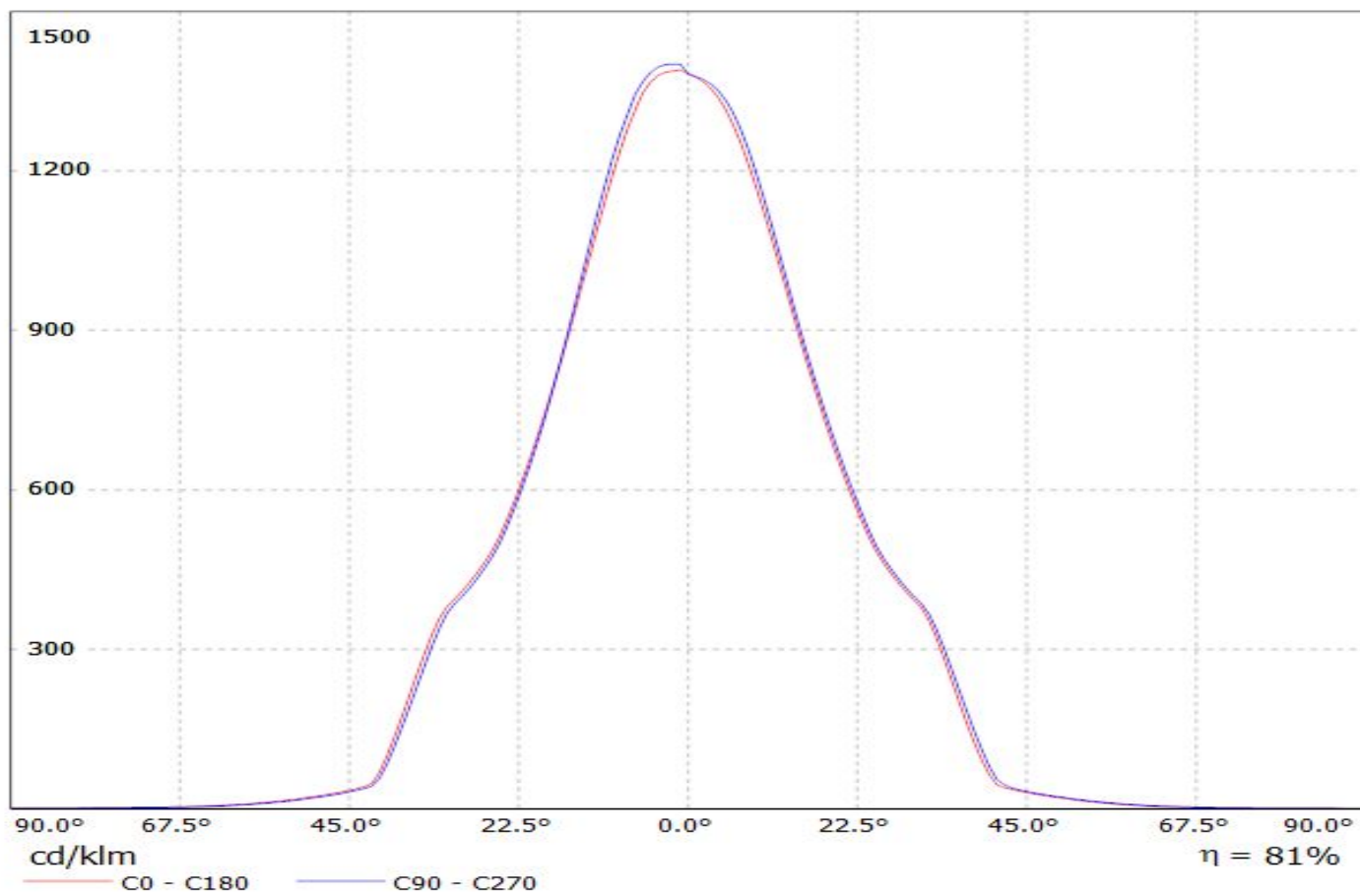


Luminaire: LEDiL Oy F13664_ANGELA-W-B_(CLL040) Eff.81.8%
Lamps: 1 x Citizen_CLL040_1011.32lm@250mA_P=8.24545W_I=249.9mA



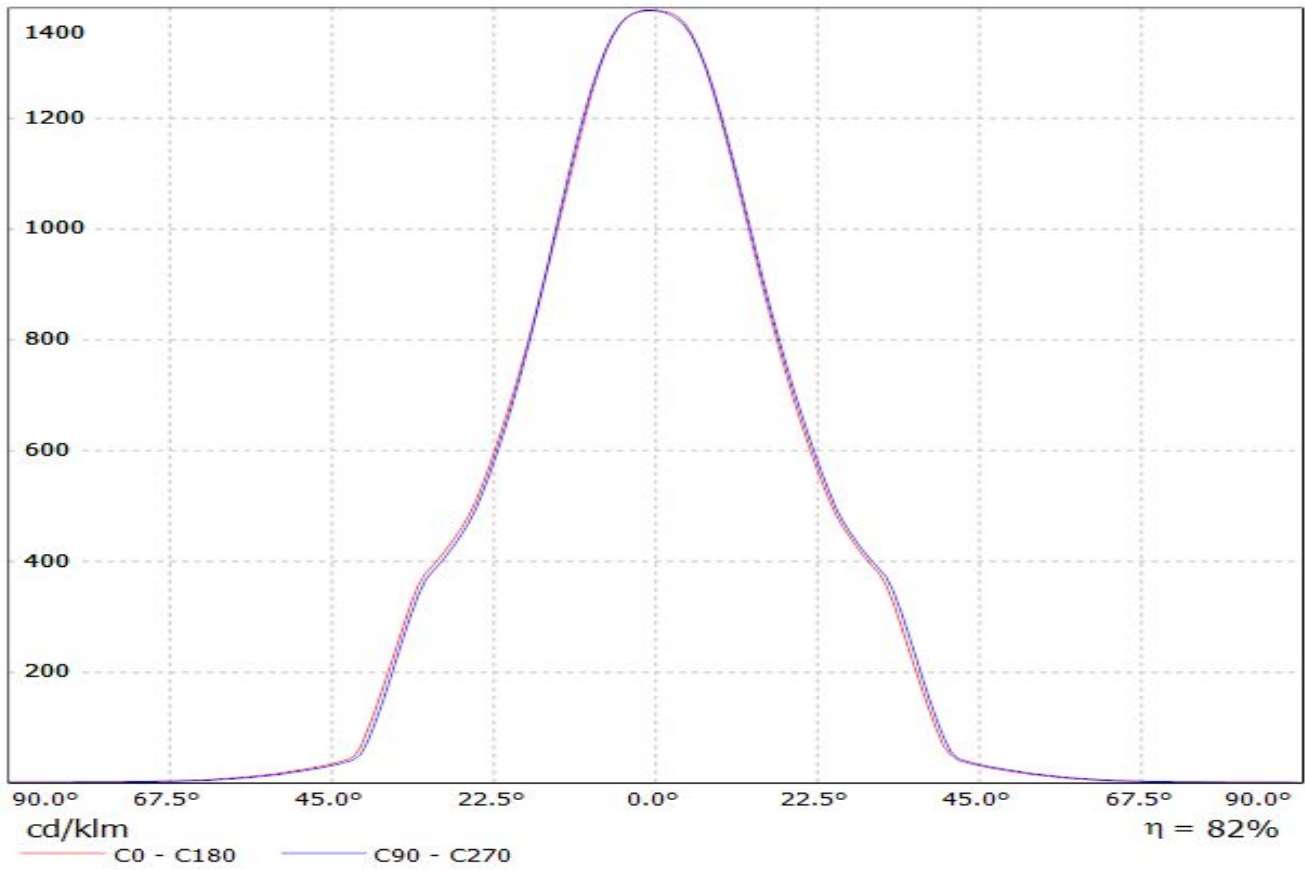
Luminaire: LEDiL Oy F13664_ANGELA-W-B_(COB_40W)

Lamps: 1 x LG_COB_40W_1163.31lm@250mA_CCT=3000K_P=8.04906W_I=249.8mA



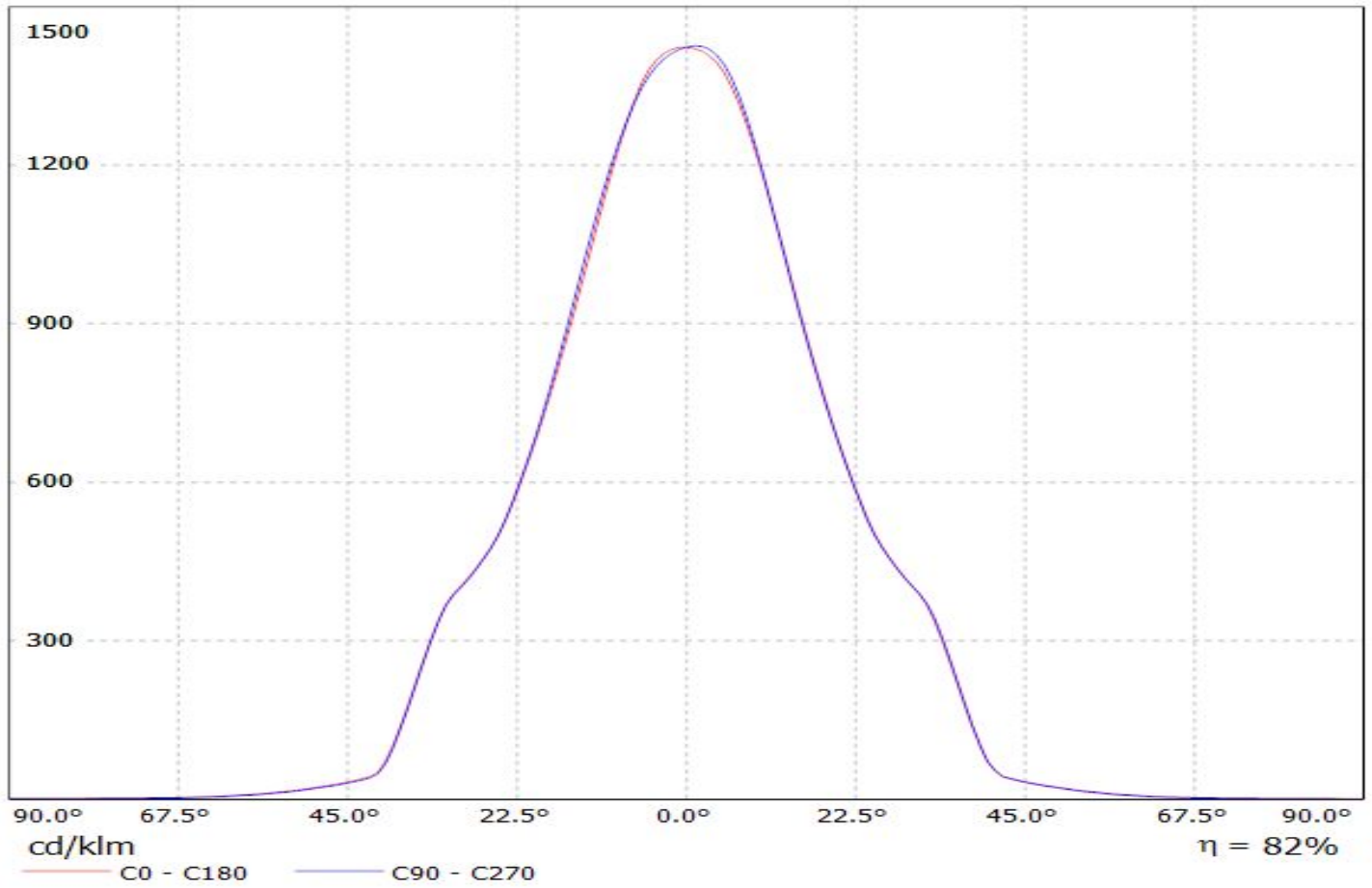
Luminaire: LEDiL Oy F13664_ANGELA-W-B_(CLU044)

Lamps: 1 x Citizen_CLU044_(CLU044-1212B8-303M1A2)_1300.9lm@250mA_P=8.14849W_I=249.9mA



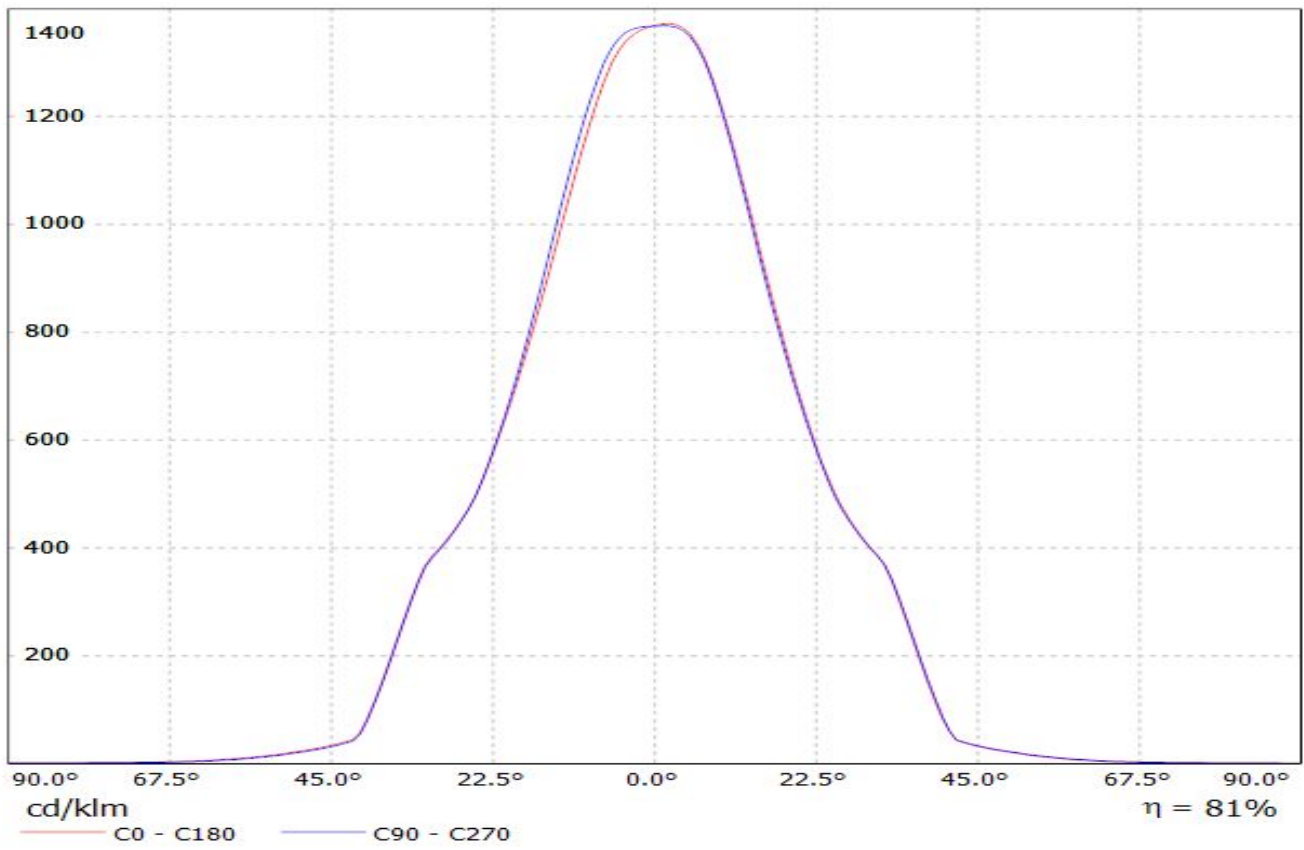
Luminaire: LEDiL Oy F13664_ANGELA-W-B_(ZC40)

Lamps: 1 x SEOUL_ZC40_(SBWW5F1B)_1176.6lm@250mA_P=8.22171W_I=249.9mA

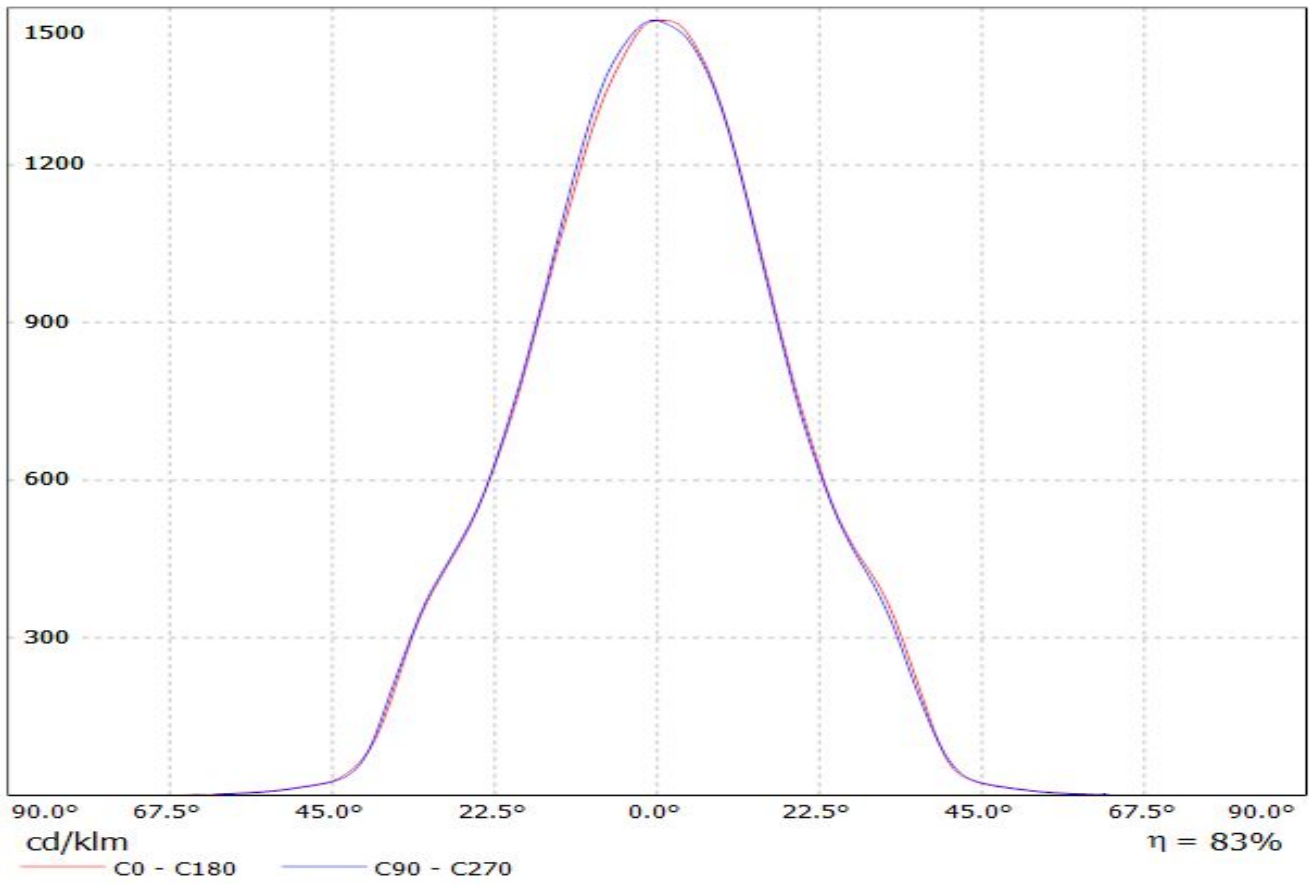


Luminaire: LEDiL Oy F13664_ANGELA-W-B_(CXM-22) Eff.81.5%

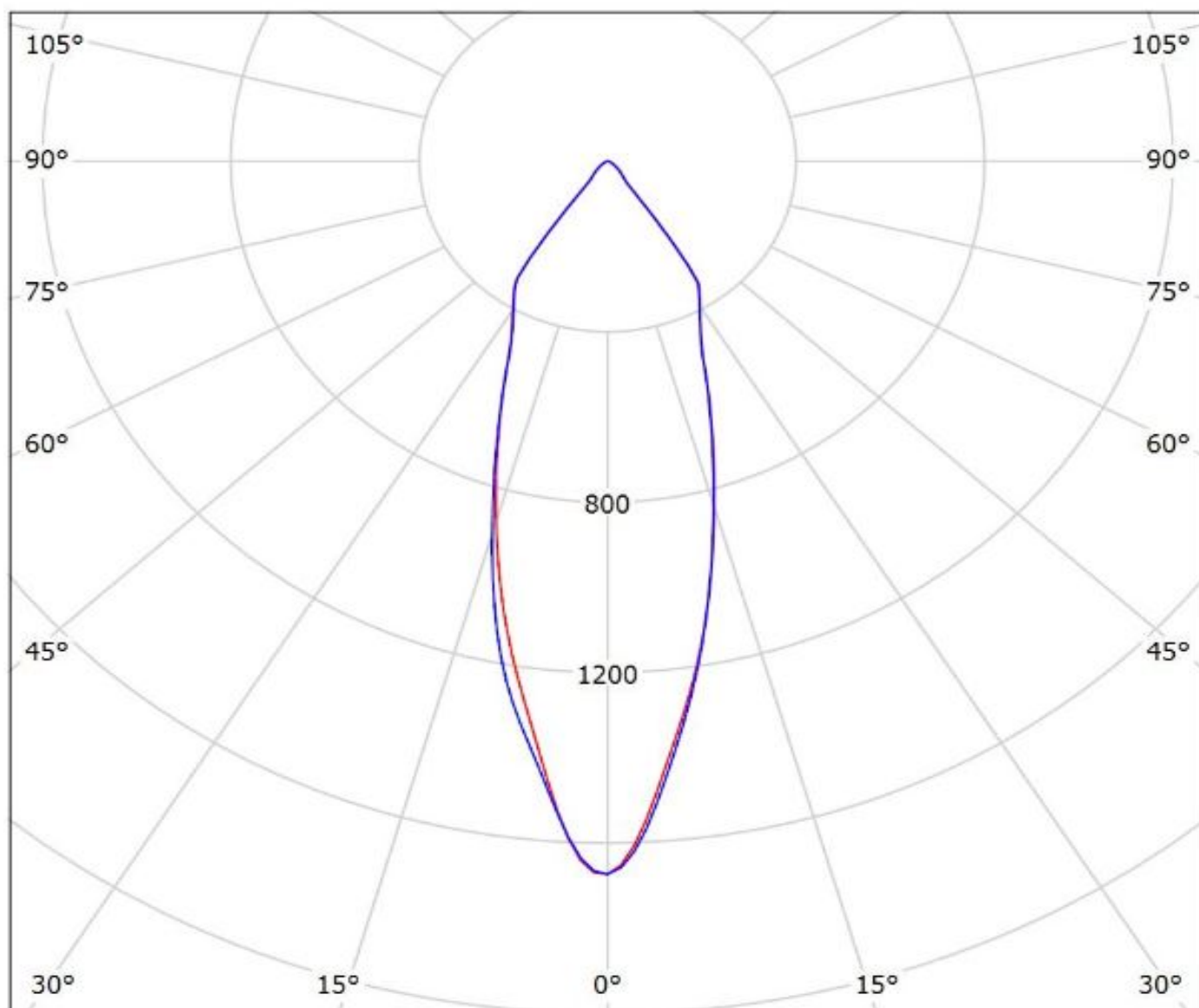
Lamps: 1 x LUMINUS_CXM-22_1221.8lm@250mA_P=8.00809W_CCT=3000K_I=249.8mA



Luminaire: Ledil Oy F13664_ANGELA-W-B_(ZC-40) Efficiency=82%
Lamps: 1 x Seoul ZC-40 (SBWW5F1B) 1153lm @ 250mA CCT= P=8.25W I=250mA



Luminaire: Ledil F13664_ANGELA-W-B_(CITIZEN_CLU720)
Lamps: 1 x CITIZEN_CLU720_(CLU720-1206B8-273M2)
_1320.42lm@250mA_CCT=2700K_P=8.35W_I=0.25A

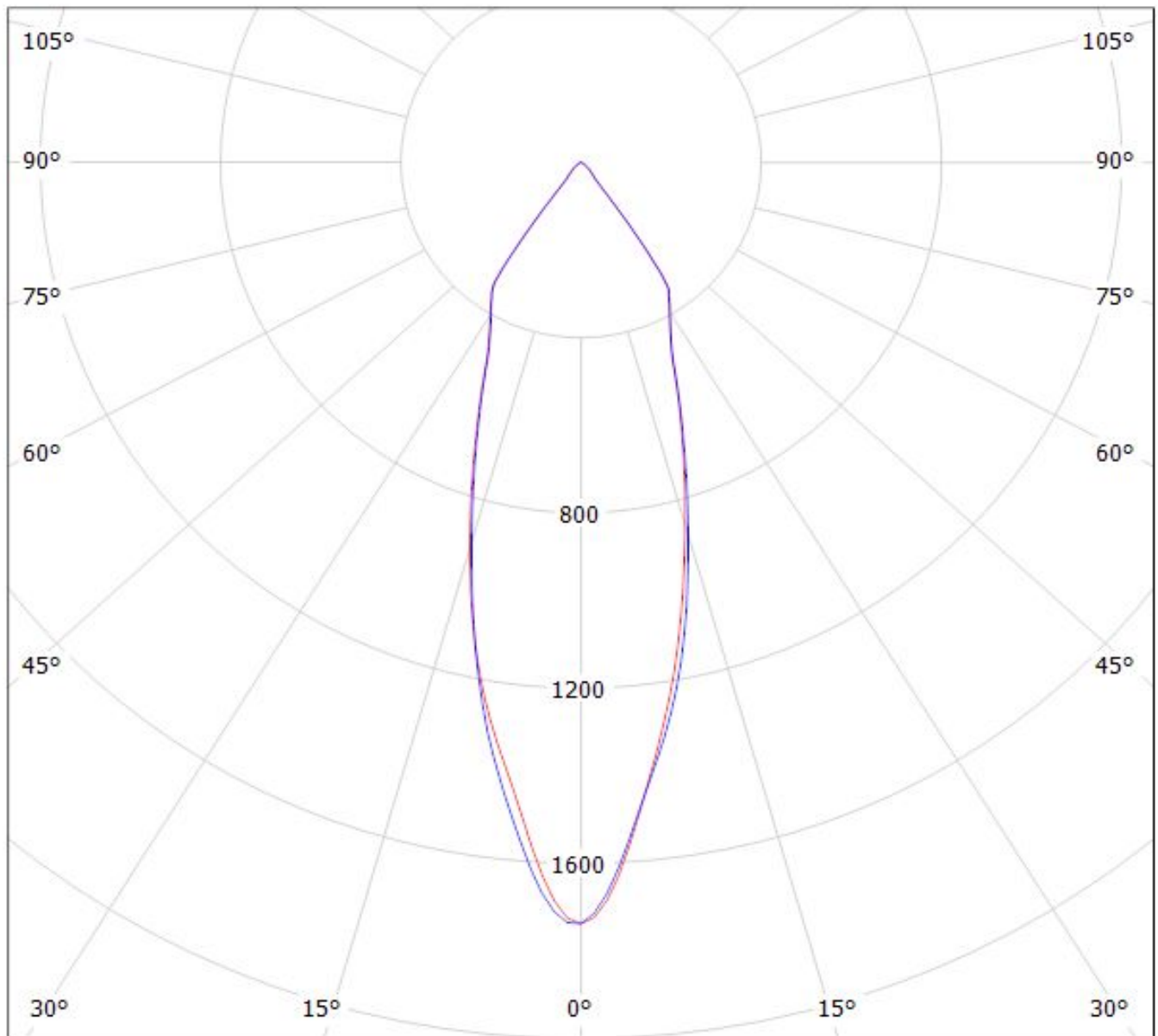


cd/klm
— C0 - C180 — C90 - C270

$\eta = 84\%$

Luminaire: LEDiL Oy F13664_ANGELA-W-B_(CITIZEN_CLU720)

Lamps: 1 x CITIZEN_CLU720_(BJB: 47.319.2020)_1214.68lm@250mA_CCT=2700K_P=8.31842W_I=0.25A



cd/klm

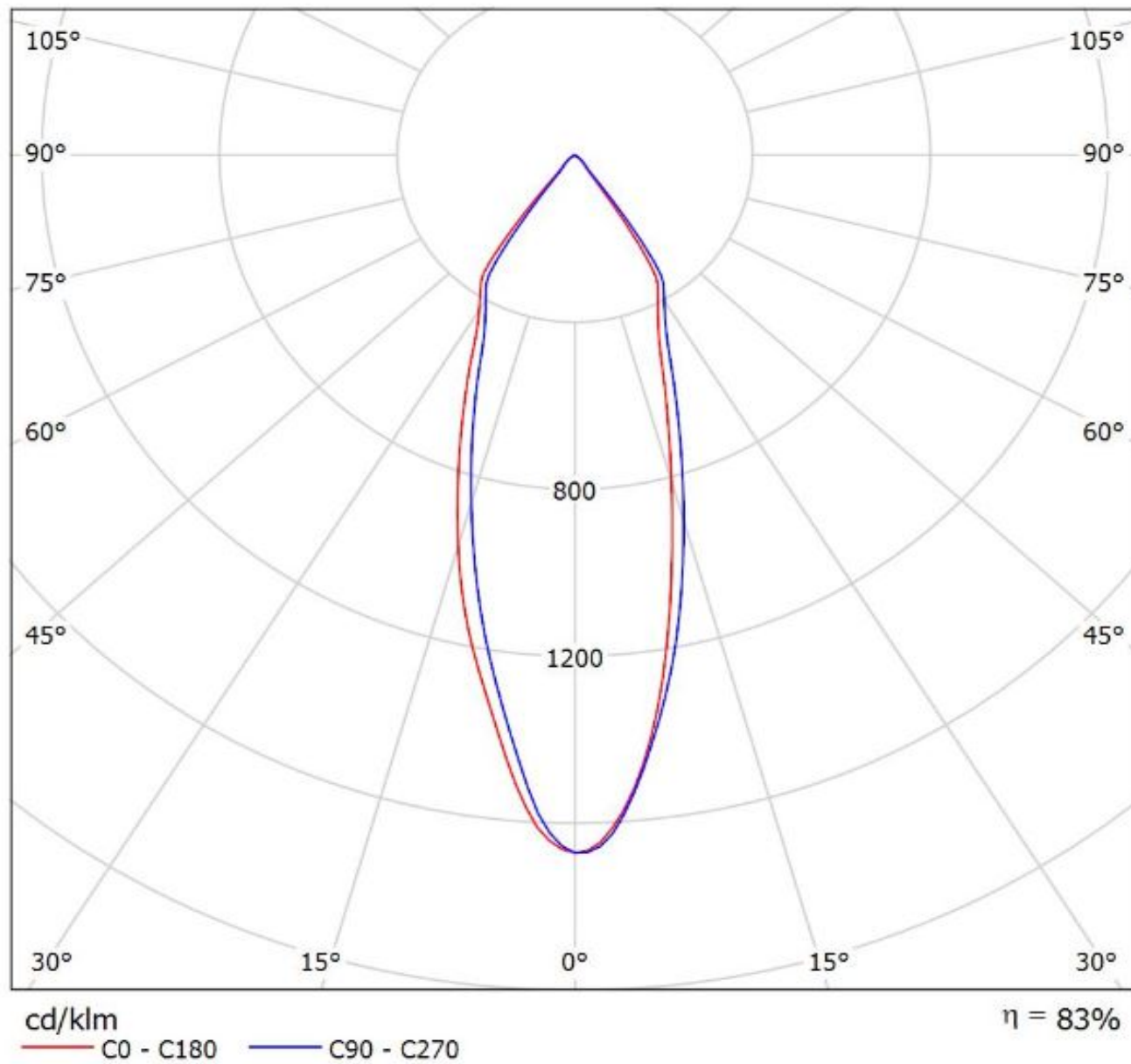
— C0 - C180

— C90 - C270

$\eta = 83\%$

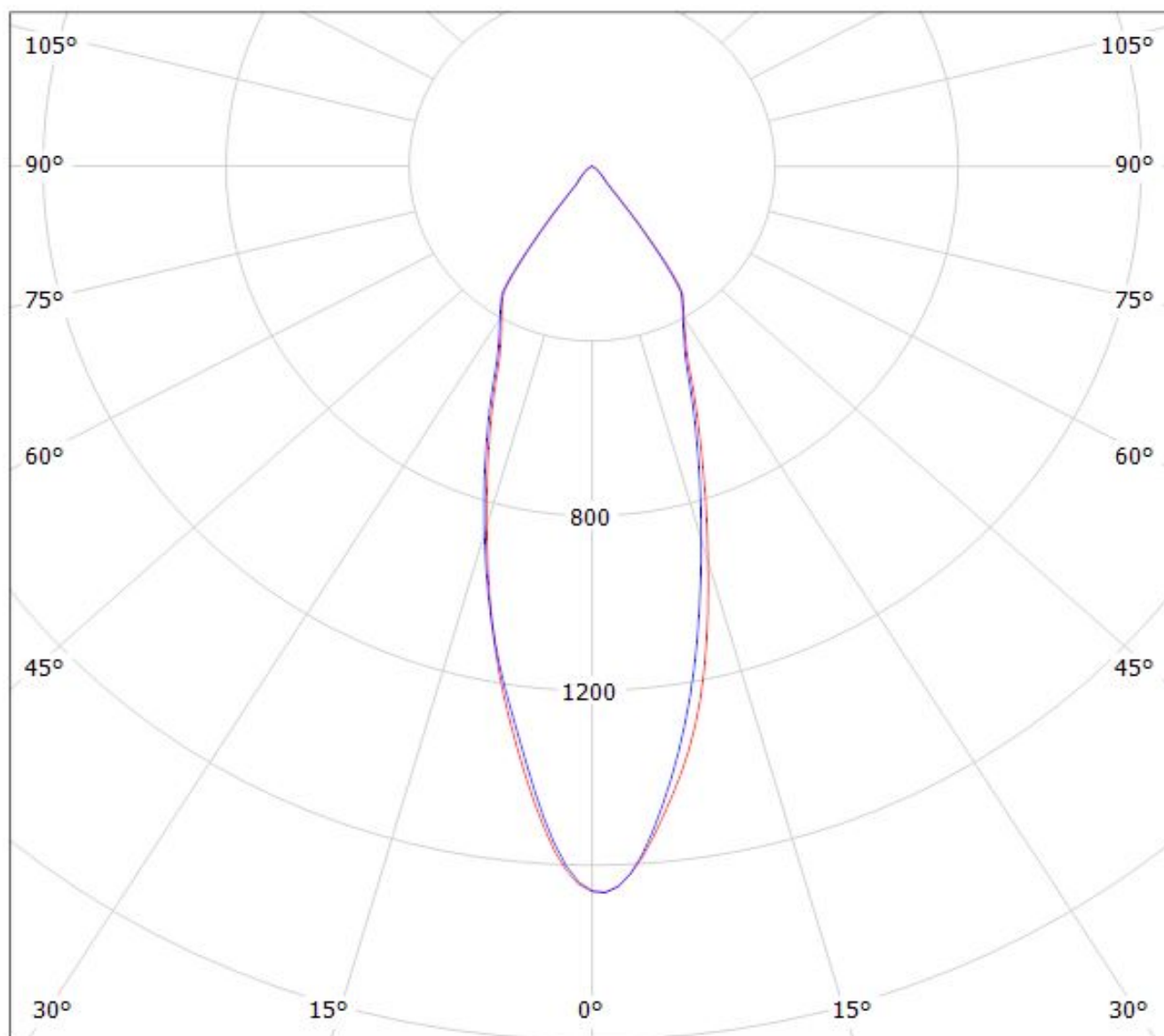
Luminaire: LEDiL Oy F13664_ANGELA-W-B_(SOLERIQ_P13)

Lamps: 1 x SOLERIQ_P13_(GW_MAGMB1.EM)_1053.65lm@250mA_CCT=3000K_P=8.82044W_I=249.8mA



Luminaire: LEDiL Oy F13664_ANGELA-W-B_(Luxeon_CoB_1205)

Lamps: 1 x LUXEON_COB_1205_(LHC1-3080-1205)_1115lm@250mA_CCT=3000K_P=11.183W_I=249.8mA



cd/klm

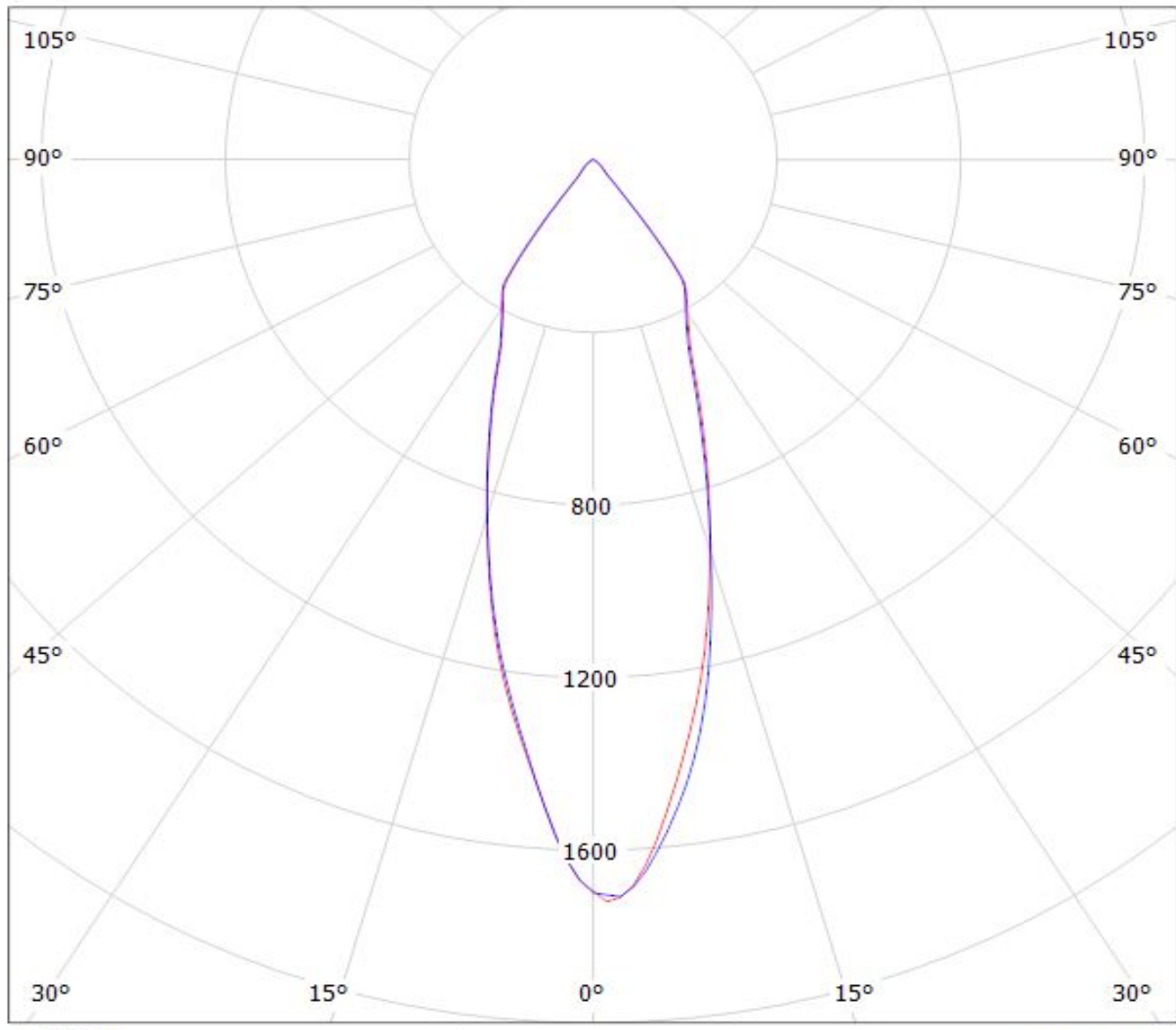
— C0 - C180

— C90 - C270

$\eta = 83\%$

Luminaire: LEDiL Oy F13664_ANGELA-W-B_(S13) Eff.83.9%

Lamps: 1 x Osram_Solericq_S13_901.003lm@250mA_P=7.48151W_I=249.9mA

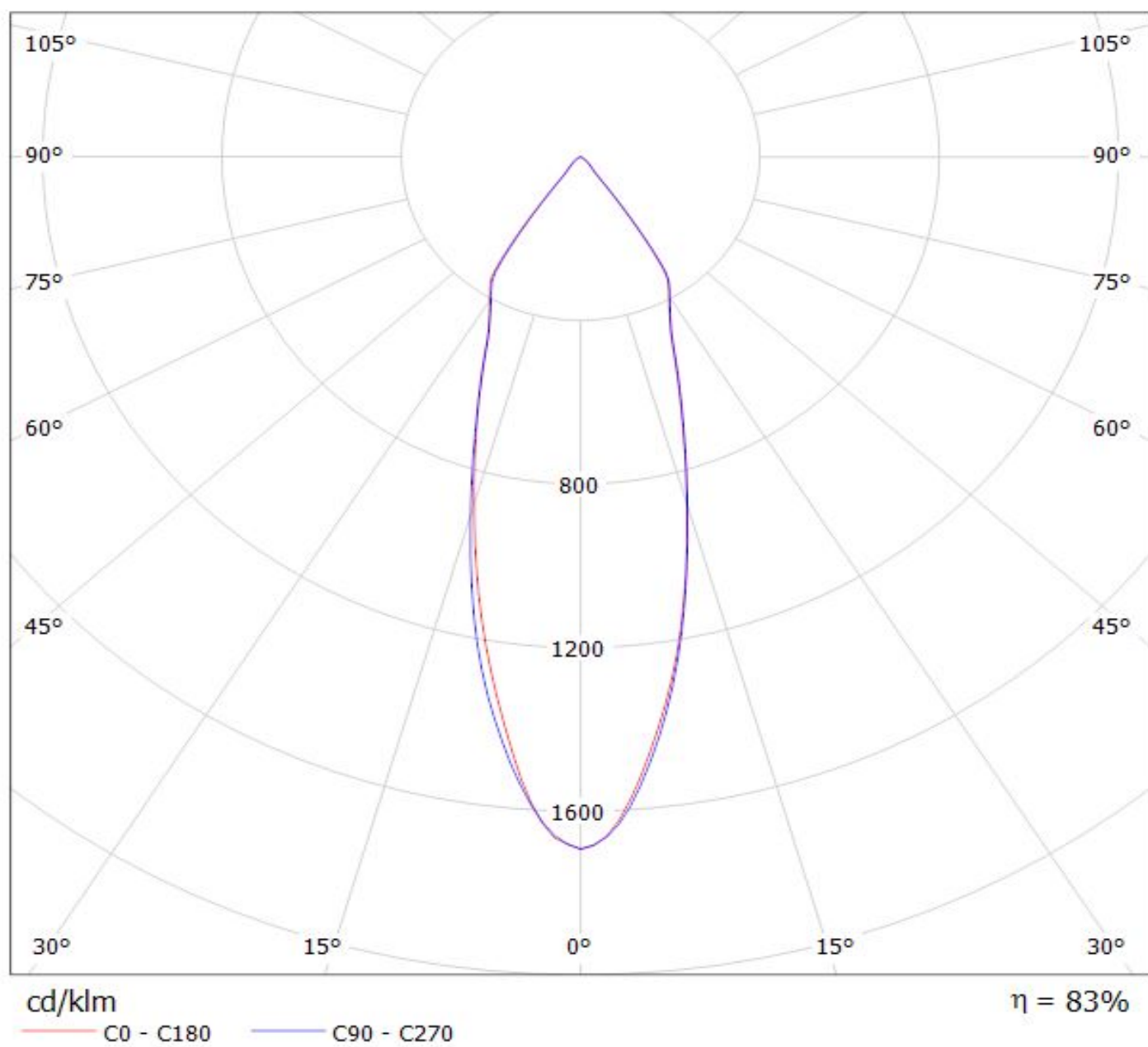


cd/klm

— C0 - C180 — C90 - C270

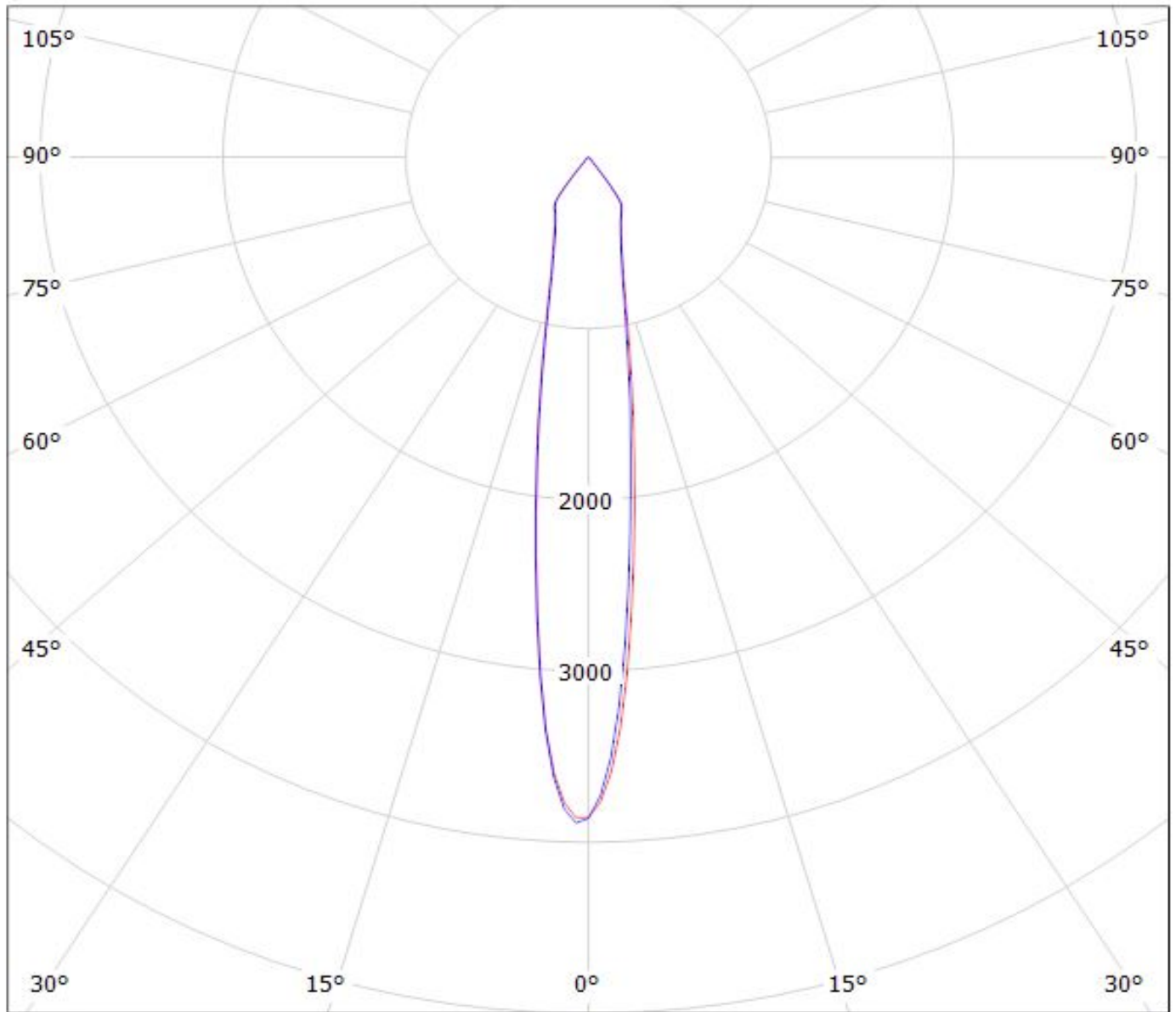
$\eta = 84\%$

Luminaire: LEDiL Oy F13664_ANGELA-W-B_(CXM-14)
Lamps: 1 x LUMINUS_XNOVA_CXM-14_(AC00)
_1049.18lm@250mA_CCT=3126K_P=8.31834W_I=249.8mA



Luminaire: LEDiL Oy F13663_ANGELA-M-B_(COB-10W) Eff.83.2%

Lamps: 1 x LG_COB-10W_1065.85lm@250mA_CCT=5090K_P=9.10871W_I=249.8mA



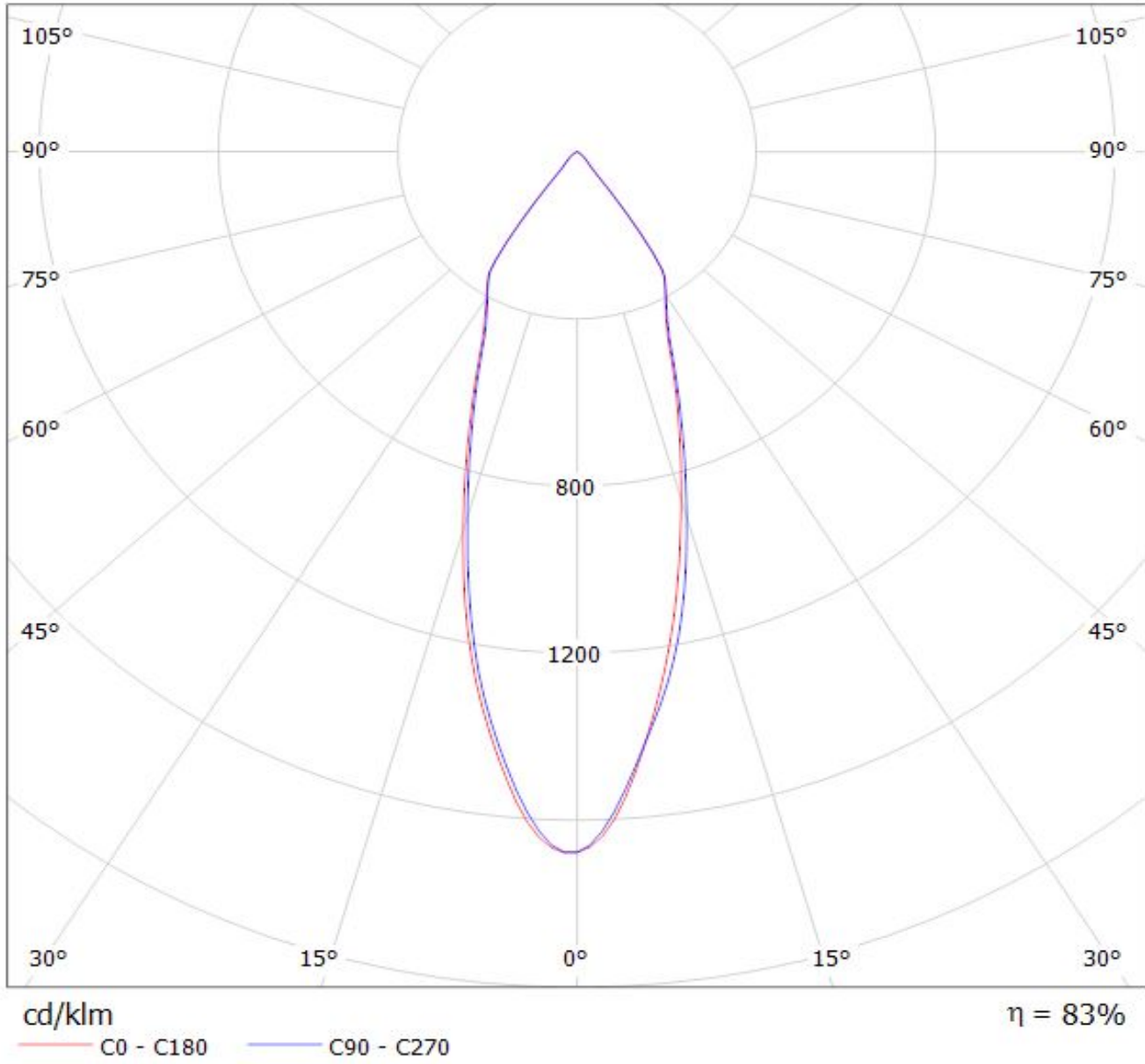
cd/klm

η = 83%

— C0 - C180

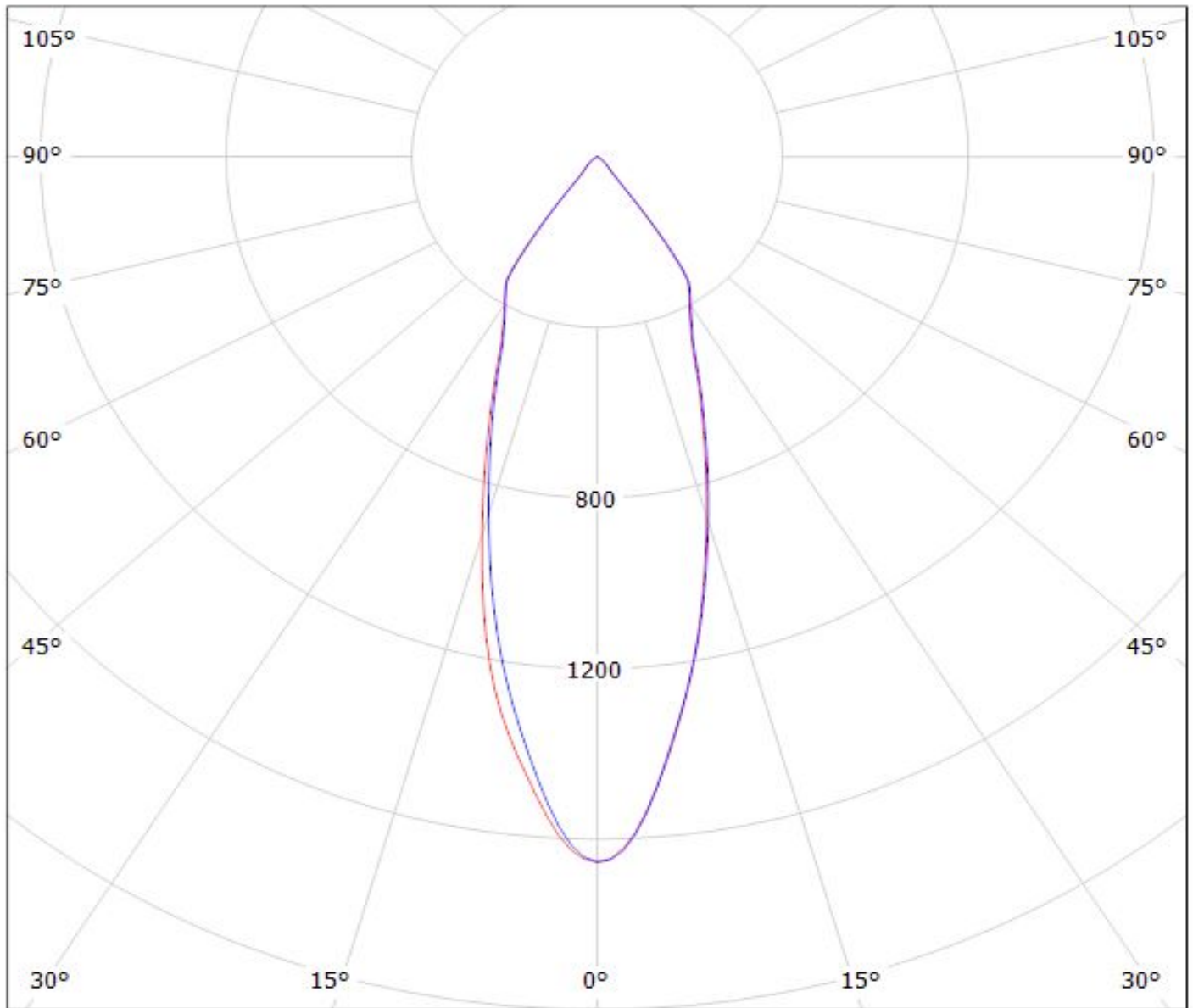
— C90 - C270

Luminaire: LEDiL Oy F13664_ANGELA-W-B_(CLL030) Eff.83.4%
Lamps: 1 x Citizen_CLL030_1040.57lm@250mA_P=8.45923W_I=249.8mA



Luminaire: LEDiL Oy F13664_ANGELA-W-B_(LG_COB_10W)

Lamps: 1 x LG_COB_10W_(LEMWM18580LG00)_917.757lm@250mA_P=9.31304W_I=249.8mA



cd/klm

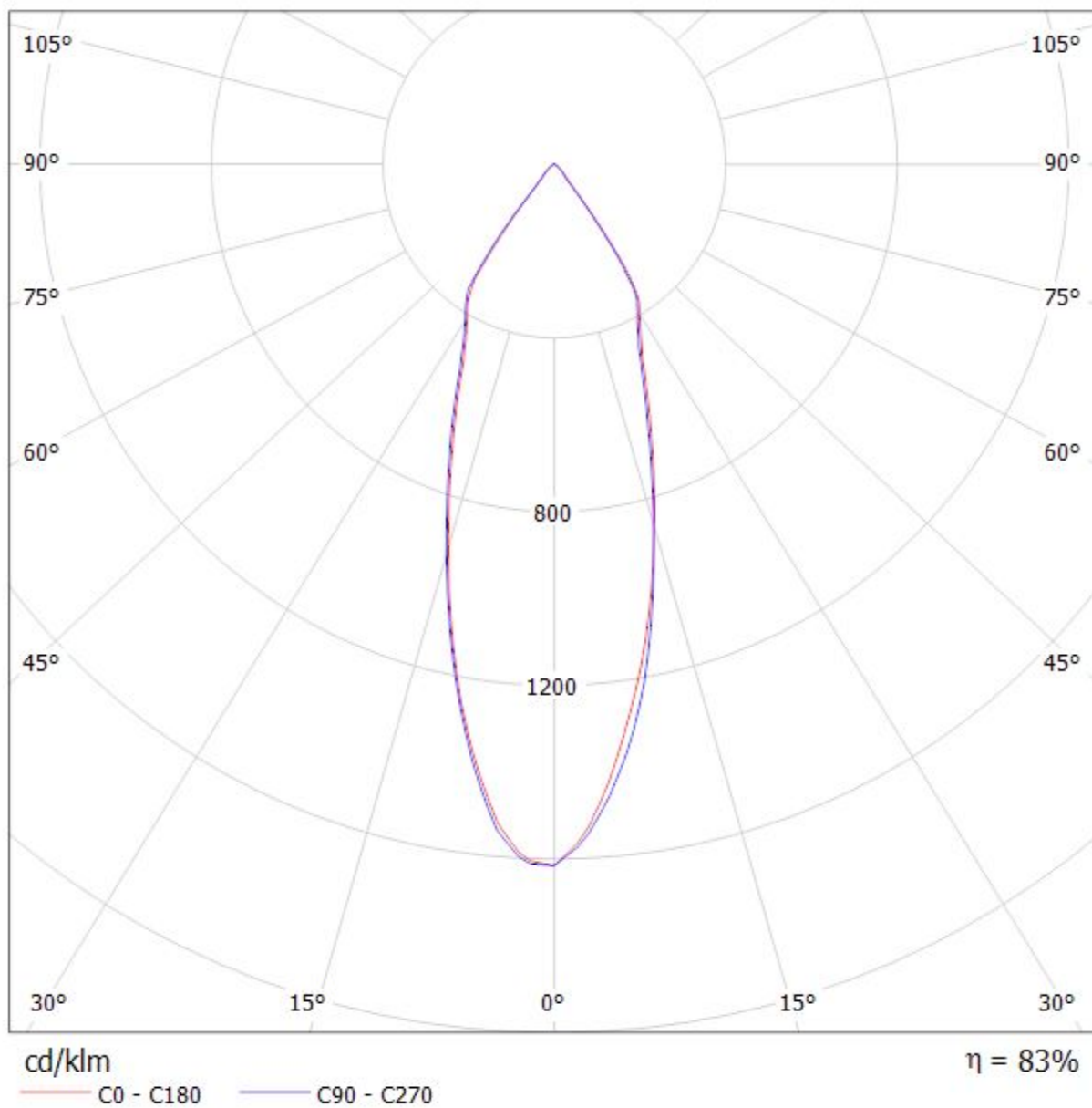
— C0 - C180

— C90 - C270

$\eta = 83\%$

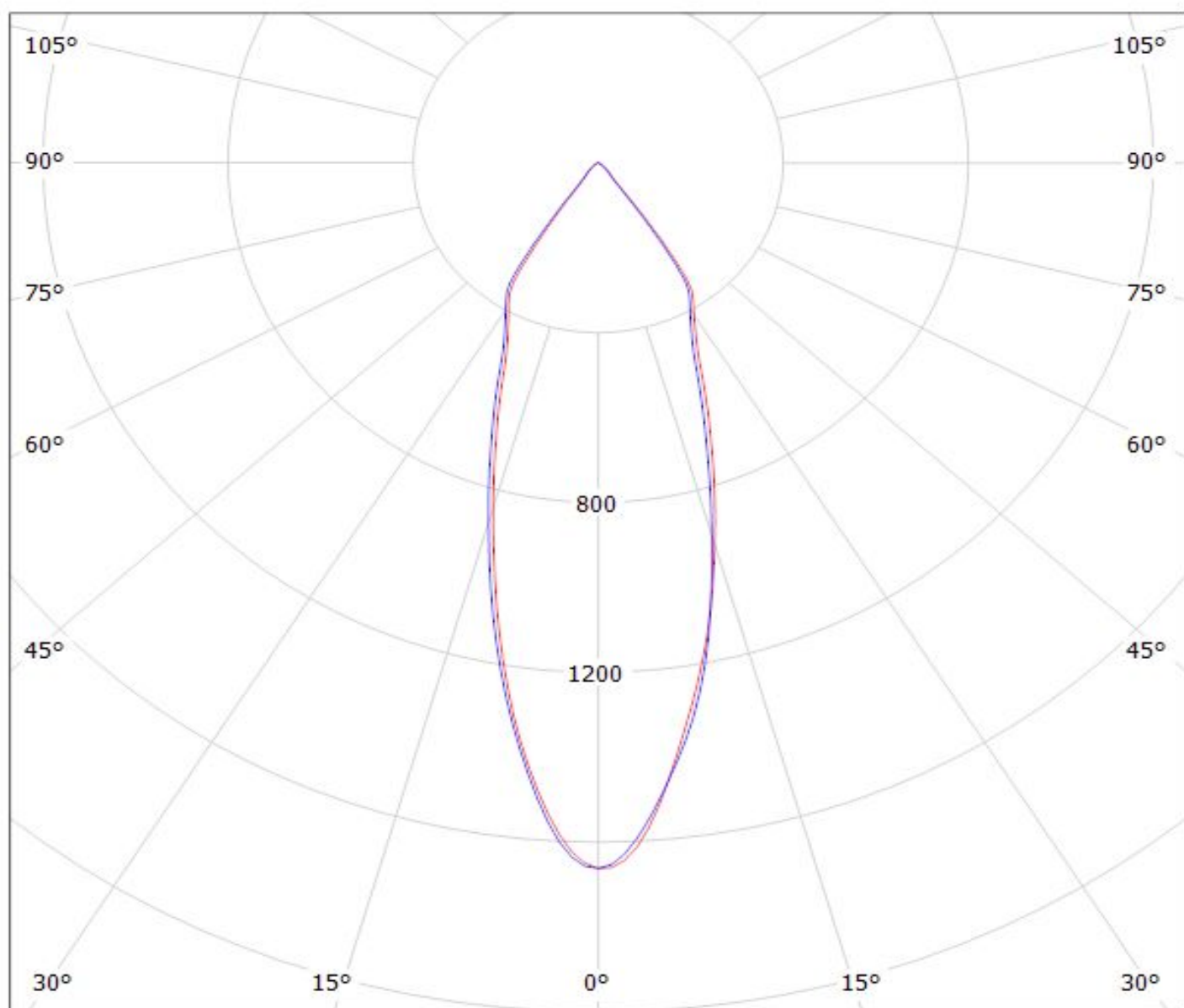
Luminaire: LEDiL Oy F13664_ANGELA-W-B_(CLU034)

Lamps: 1 x Citizen_CLU034_(CLU034-1205B8-303M1A2)_1159.11lm@250mA_P=8.46586W_I=249.9mA



Luminaire: LEDiL Oy F13664_ANGELA-W-B_(ZC12)

Lamps: 1 x SEOUL_ZC12_(SDW82F1C)_1240.73lm@250mA_P=8.68405W_I=249.8mA



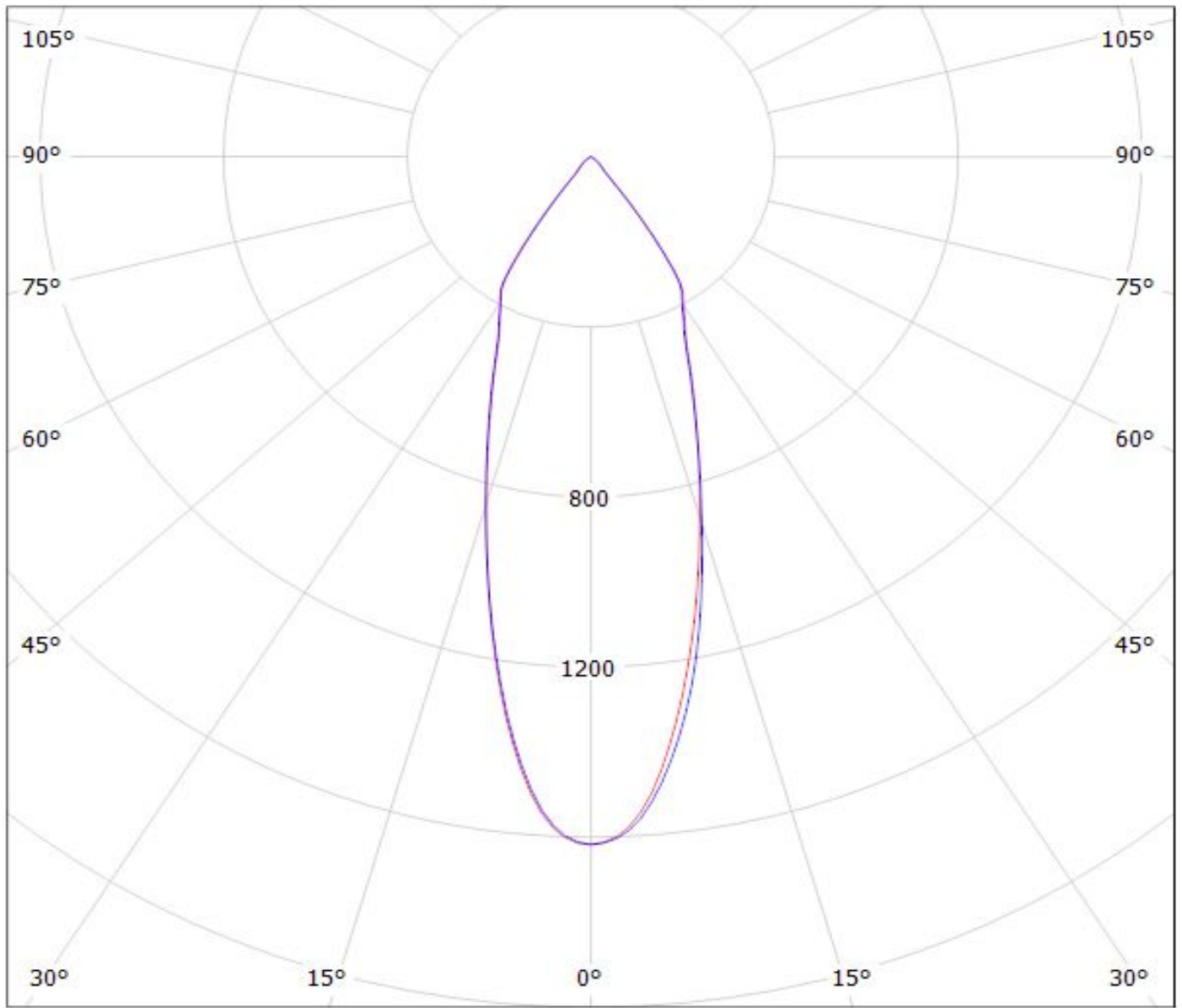
cd/klm

— C0 - C180 — C90 - C270

$\eta = 83\%$

Luminaire: LEDiL Oy F13664_ANGELA-W-B_(SLE GEN4 LES19)

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

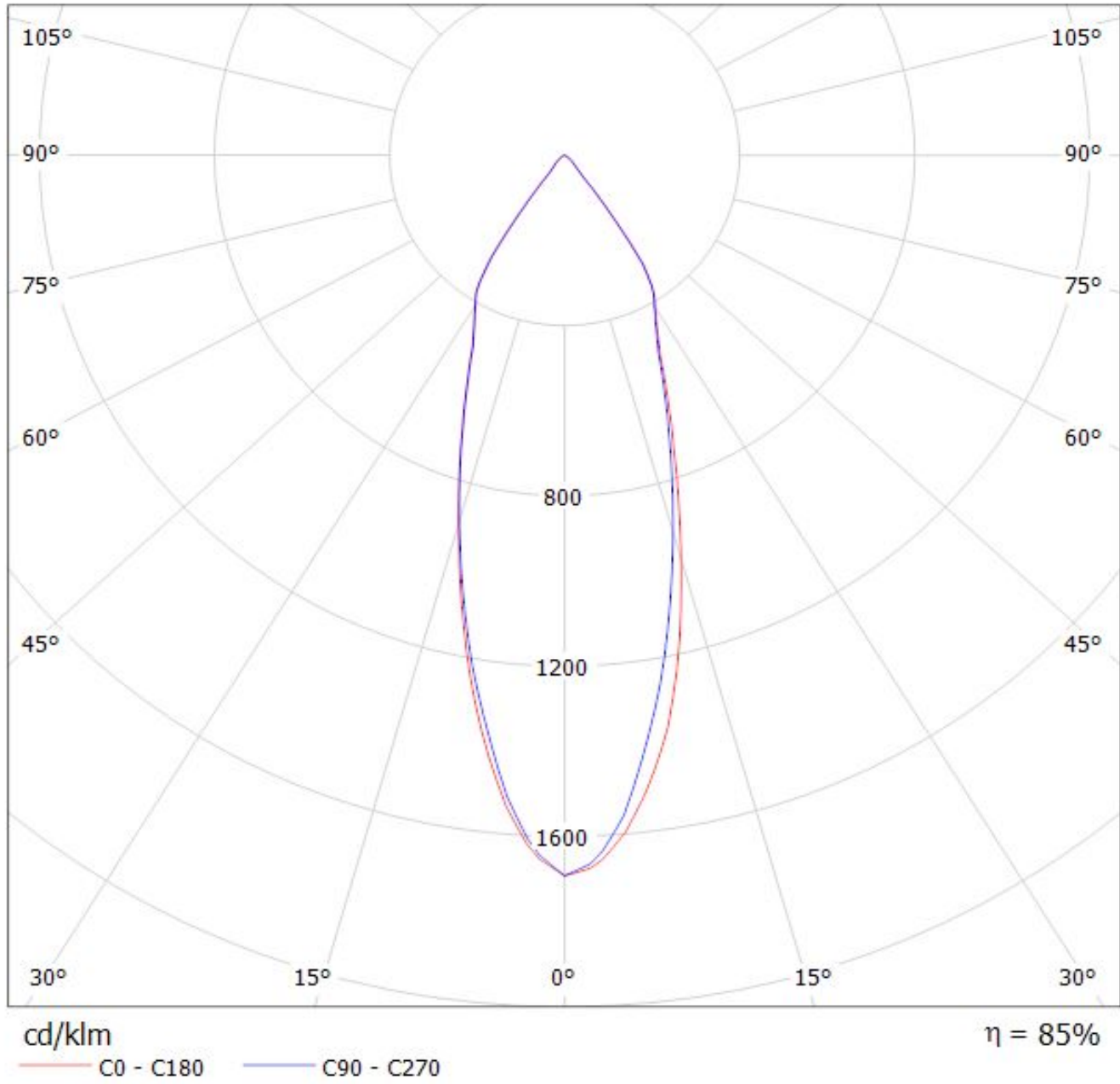


cd/klm

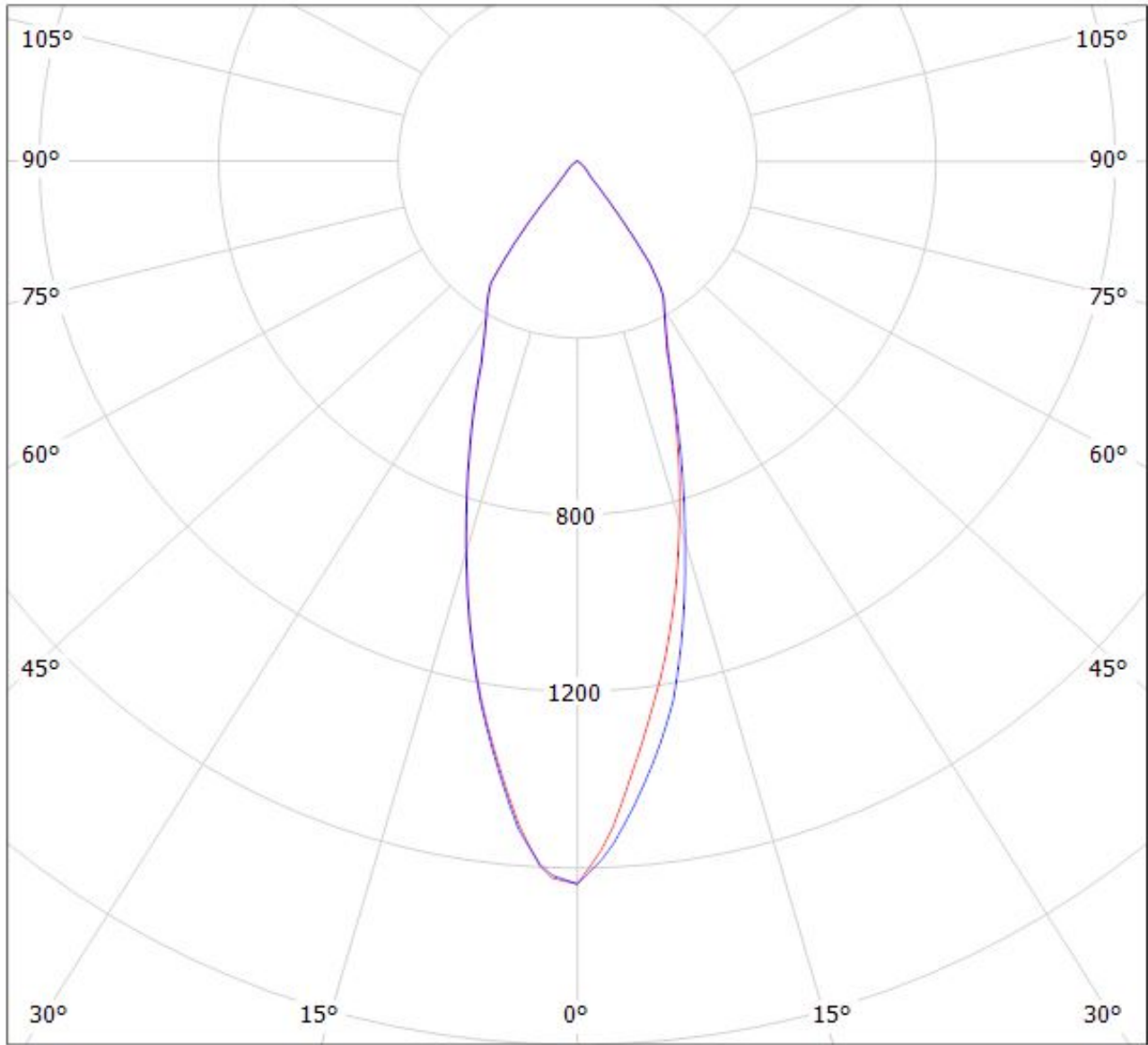
— C0 - C180 — C90 - C270

$\eta = 81\%$

Luminaire: LEDiL Oy F13664_ANGELA-W-B_(MZ) Eff.85.1%
Lamps: 1 x Sharp_Mega_Zenigata_1226.07lm@250mA_P=11.1573W_I=249.8mA



Luminaire: LEDiL Oy F13664_ANGELA-W-B_(BXRA_ES) Eff.83.2%
Lamps: 1 x Bridgelux_BXRA_ES_287.055lm@250mA_P=4.09486W_I=249.9mA

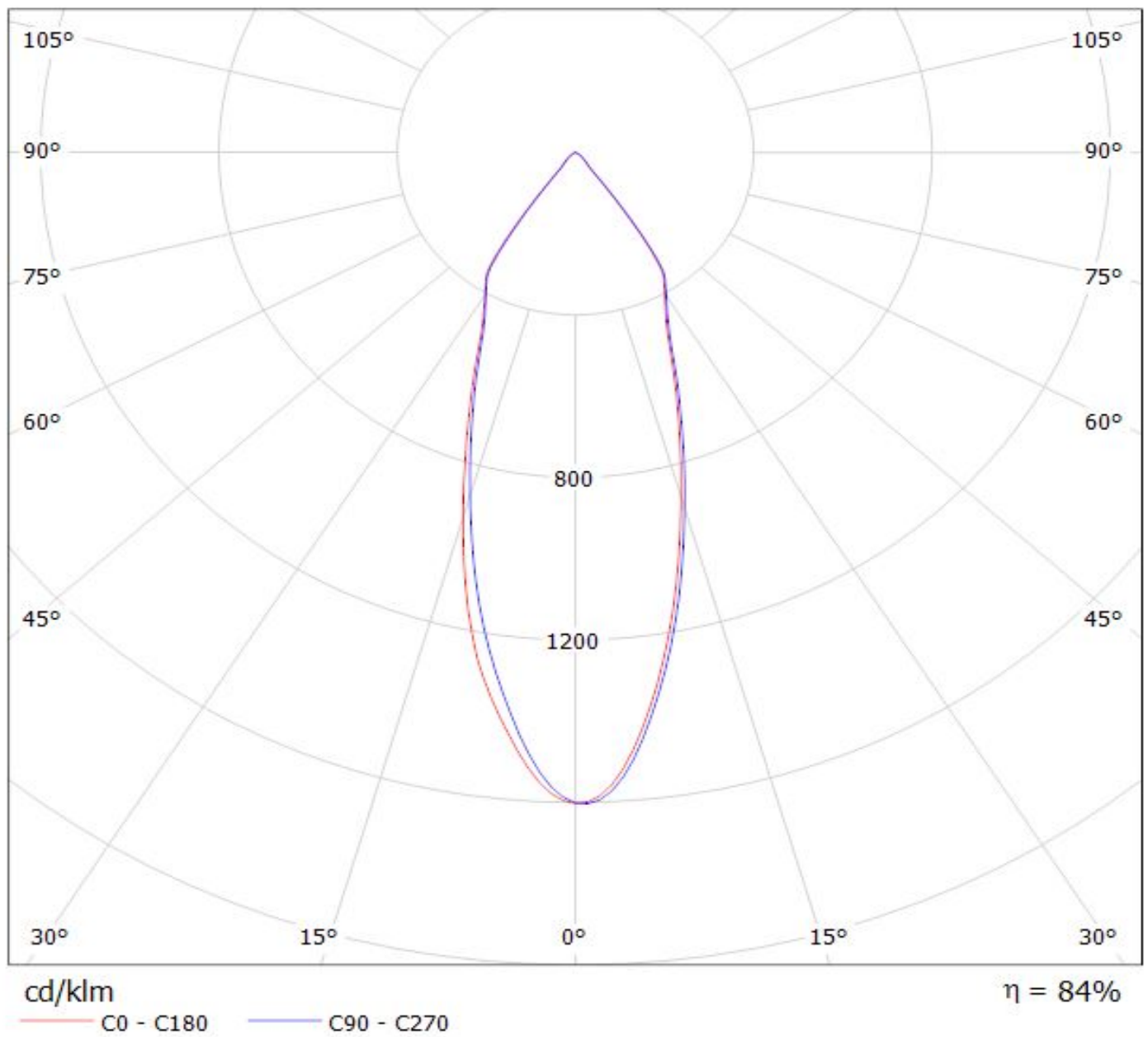


cd/klm

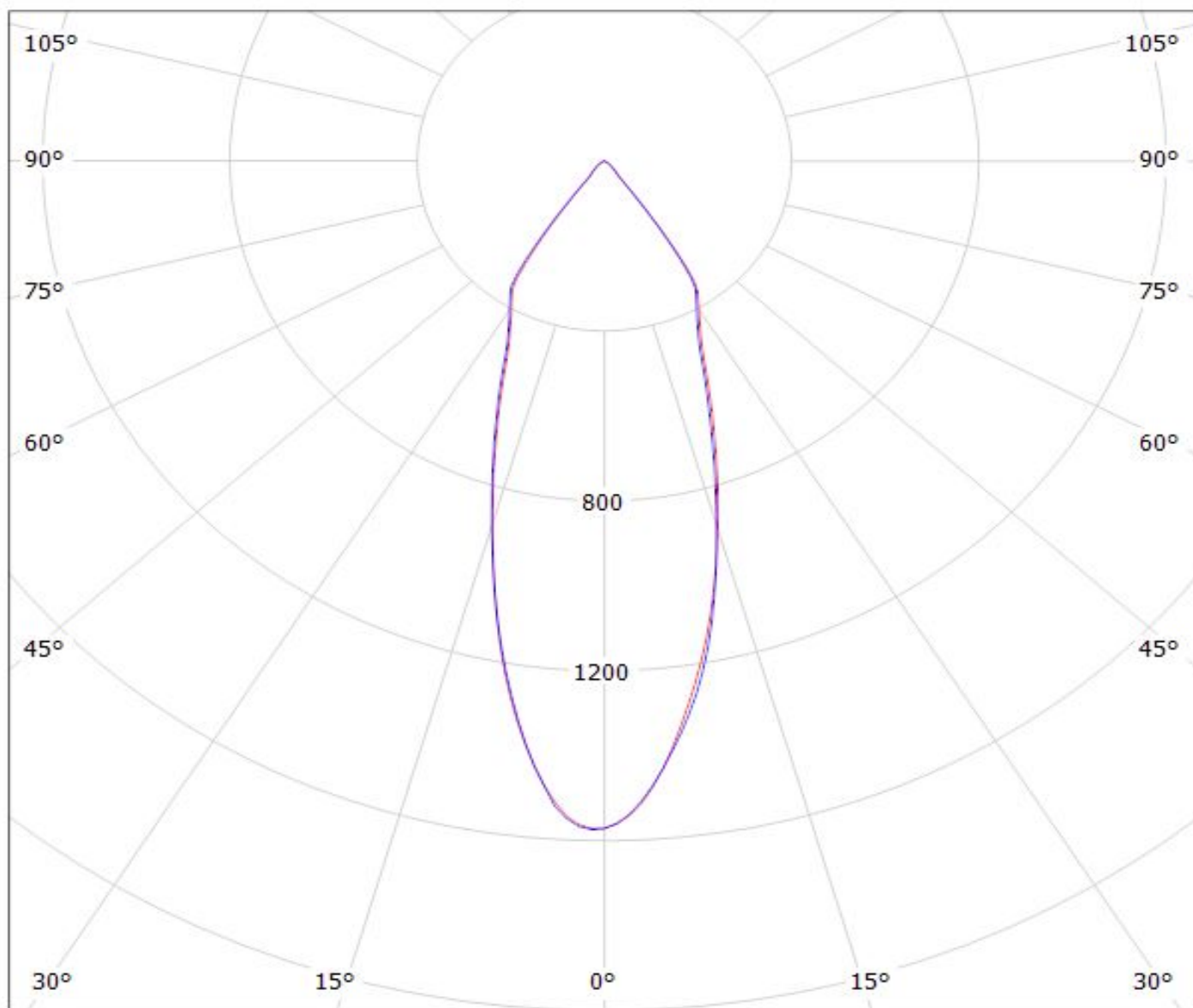
— C0 - C180 — C90 - C270

$\eta = 83\%$

Luminaire: LEDiL Oy F13664_ANGELA-W-B_(MegaZenigata_GW6)
Lamps: 1 x Sharp_MegaZenigata_GW6_(GW6DME30NFC)
_1266.19lm@250mA_CCT=3038K_P=11.2151W_I=250.6mA



Luminaire: LEDiL Oy F13664_ANGELA-W-B_(STARK_SLE_G3_LES17)
Lamps: 1 x TRIDONIC_STARK_SLE_G3_LES17_(STARK_SLE_PURE_G3-17-2000-840-CLA)
_1030.26lm@250mA_CCT=2000K_P=8.34707W_I=249.8mA

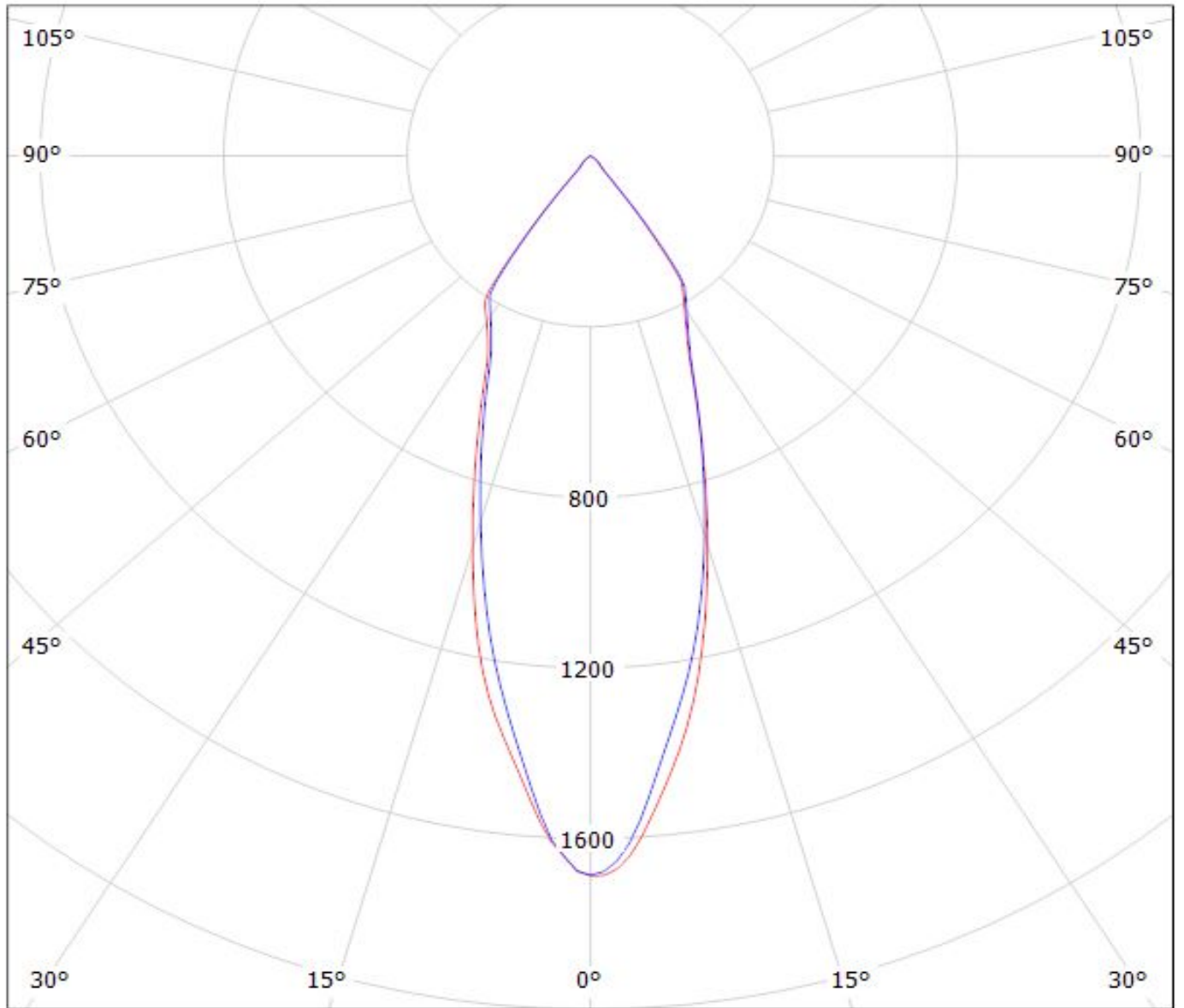


cd/klm

— C0 - C180 — C90 - C270

$\eta = 83\%$

Luminaire: LEDiL Oy F13664_ANGELA-W-B_(K12) Eff.86.9%
Lamps: 1 x Luxeon_K12_933.514lm@250mA_P=8.21721W_I=249.9mA



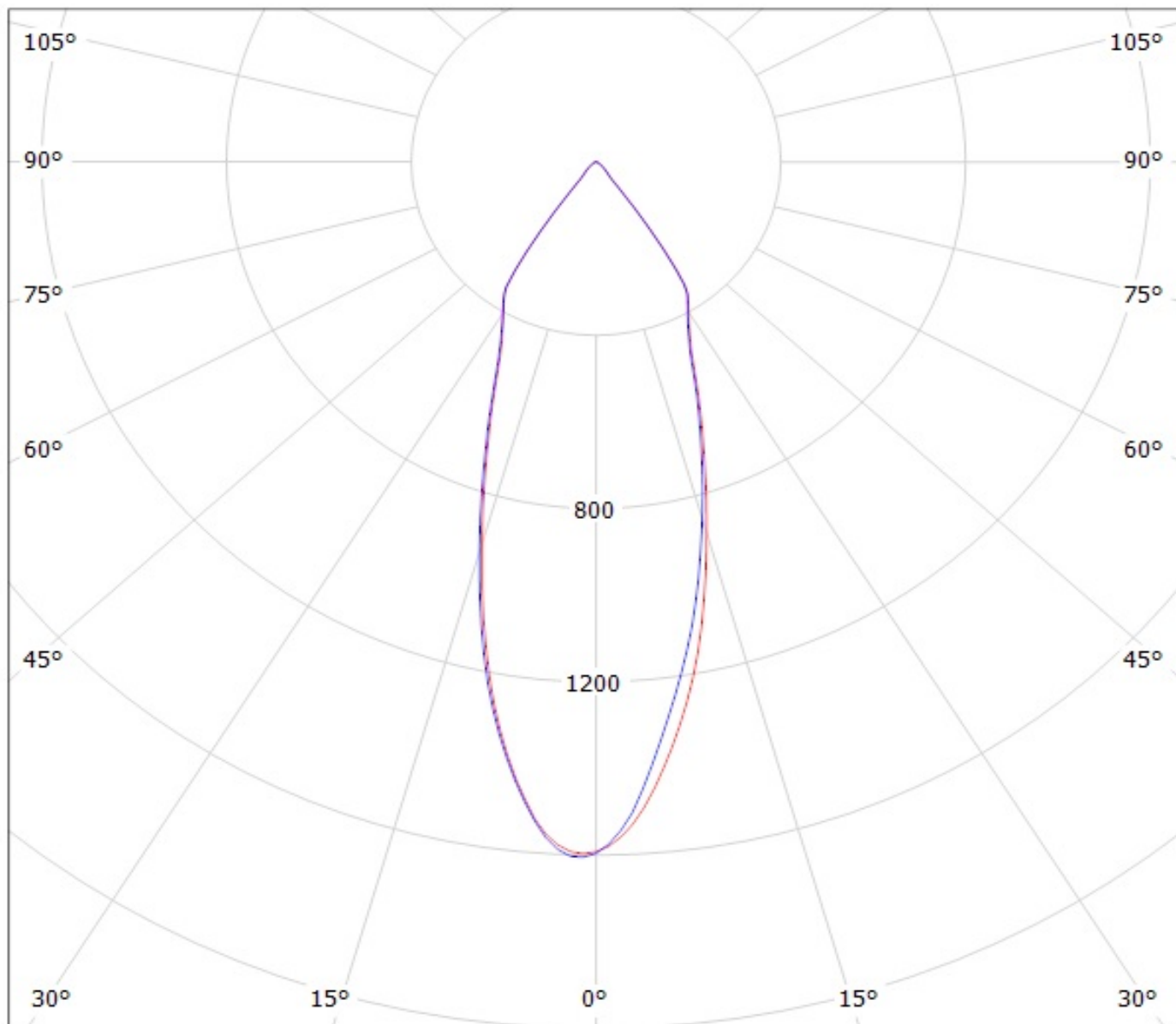
cd/klm

— C0 - C180 — C90 - C270

$\eta = 87\%$

Luminaire: LEDiL Oy F13664_ANGELA-W-B_(Luxeon_CoB_1208)

Lamps: 1 x Luxeon_CoB_1208_1045.92lm@250mA_P=8.25314W_I=249.8mA



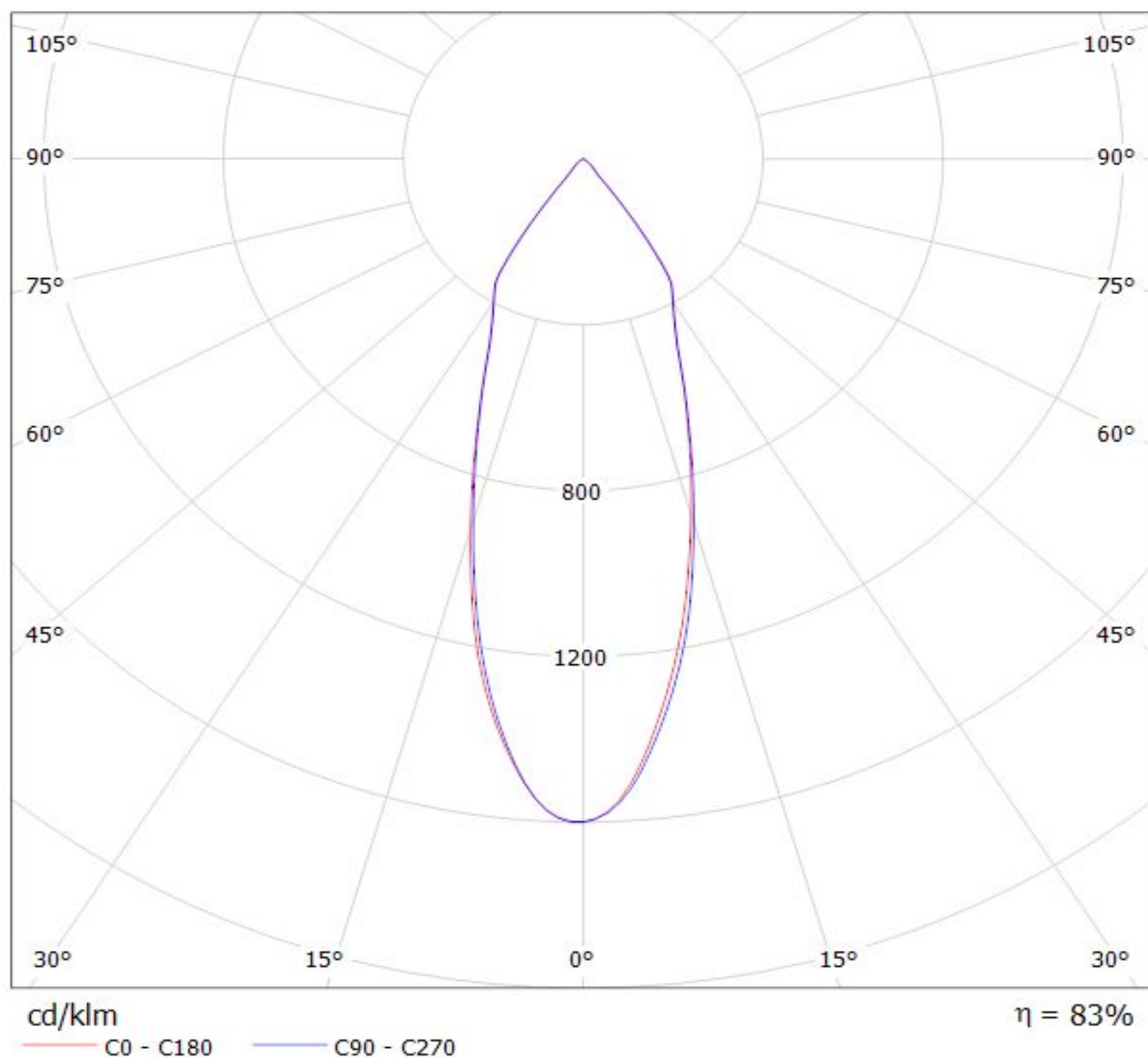
cd/klm

$\eta = 84\%$

— C0 - C180

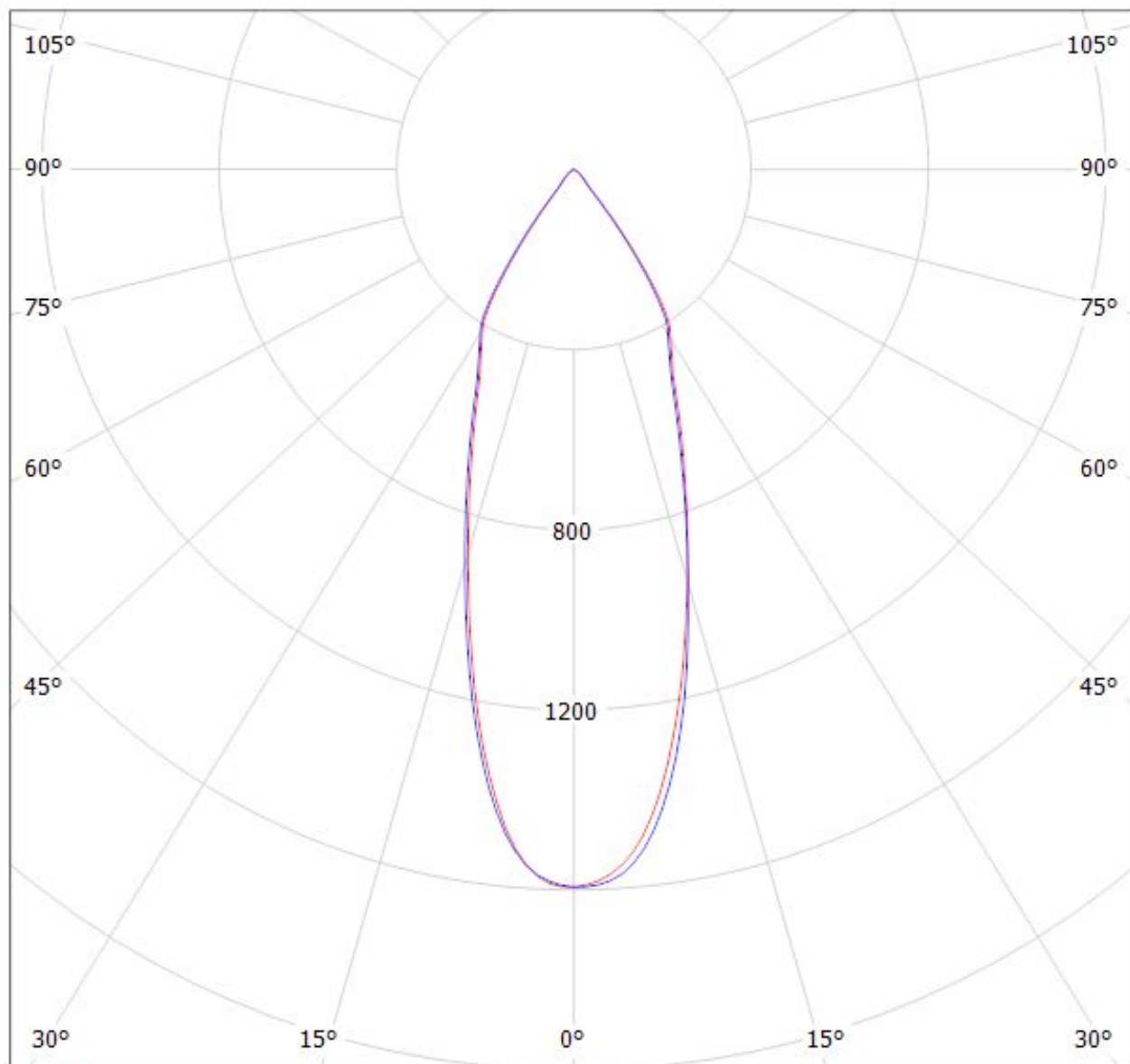
— C90 - C270

Luminaire: LEDiL Oy F13664_ANGELA-W-B_(Soleriq S19) Eff.83.4%
Lamps: 1 x OSRAM_SOLERIQ_S19_(GW_KAHJB1.EM)
_1445.44lm@250mA_CCT=3000K_P=10.558W_I=249.8mA



Luminaire: LEDiL Oy F13664_ANGELA-W-B_(SLE_G4_LES23)

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



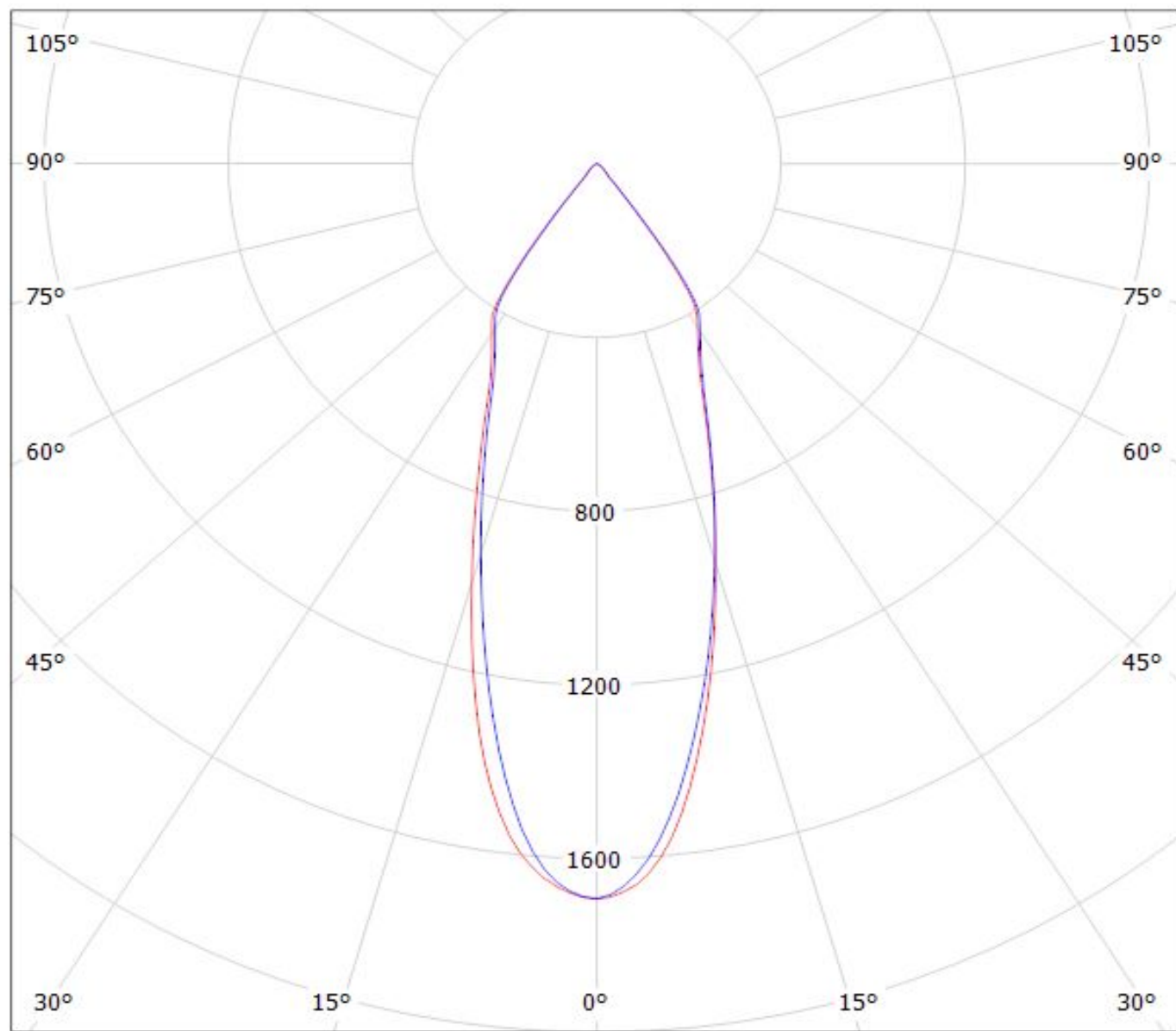
cd/klm

$\eta = 86\%$

— C0 - C180

— C90 - C270

Luminaire: LEDiL Oy F13664_ANGELA-W-B_(K16) Eff.88.4%
Lamps: 1 x Luxeon_K16_1224.2lm@250mA_P=10.8991W_U=249.9mA



cd/klm

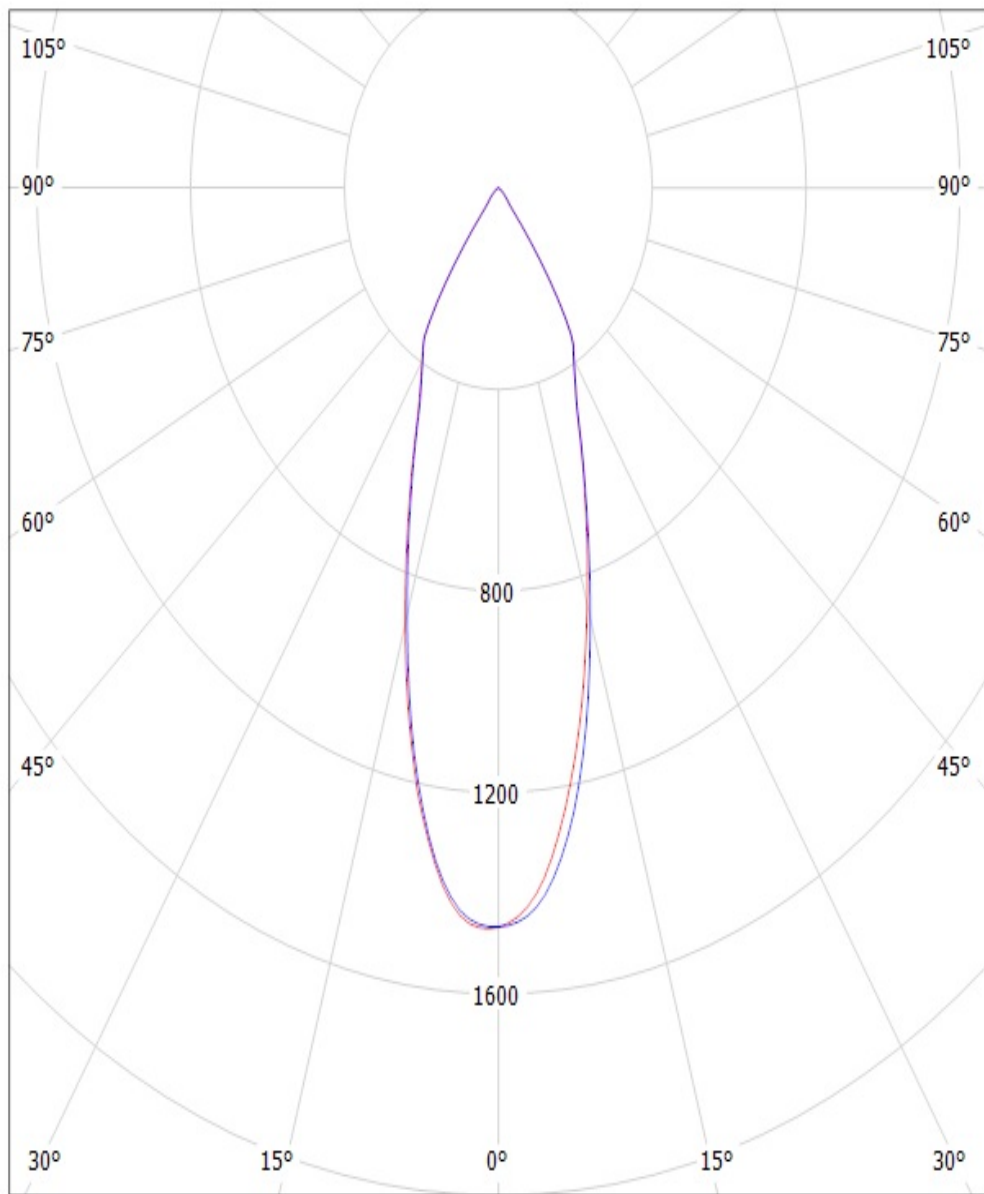
— C0 - C180

— C90 - C270

$\eta = 88\%$

Luminaire: LEDiL Oy F13664_ANGELA-W-B_(Luxeon_CoB_1211)_(BJB2030)

Lamps: 1 x Philips_Lumileds_Luxeon_CoB_1211_(LHC1-5780-1211)_(BJB2030)_1332.46lm@250mA_CCT(approx.)=5700K_P=8.03332W_I=0.2498A

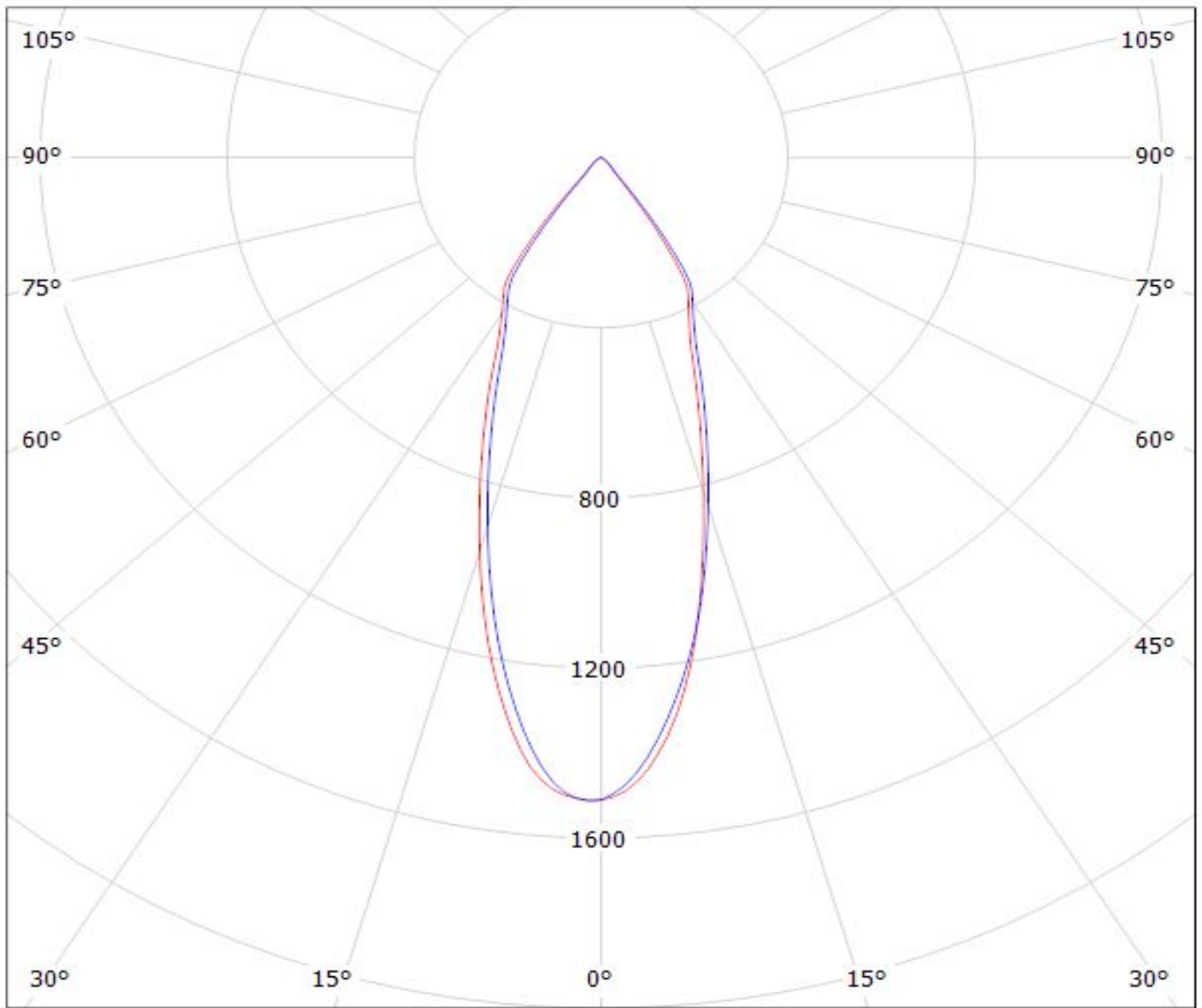


cd/klm

$\eta = 81\%$

— C0 - C180 — C90 - C270

Luminaire: LEDiL Oy F13664_ANGELA-W-B_(CXA2590)
Lamps: 1 x CREE_CXA2590_(CXA2590-30F-Z4-RPH-00001)
_837.275lm@100mA_CCT=3000K_P=6.36316W_I=100.1mA

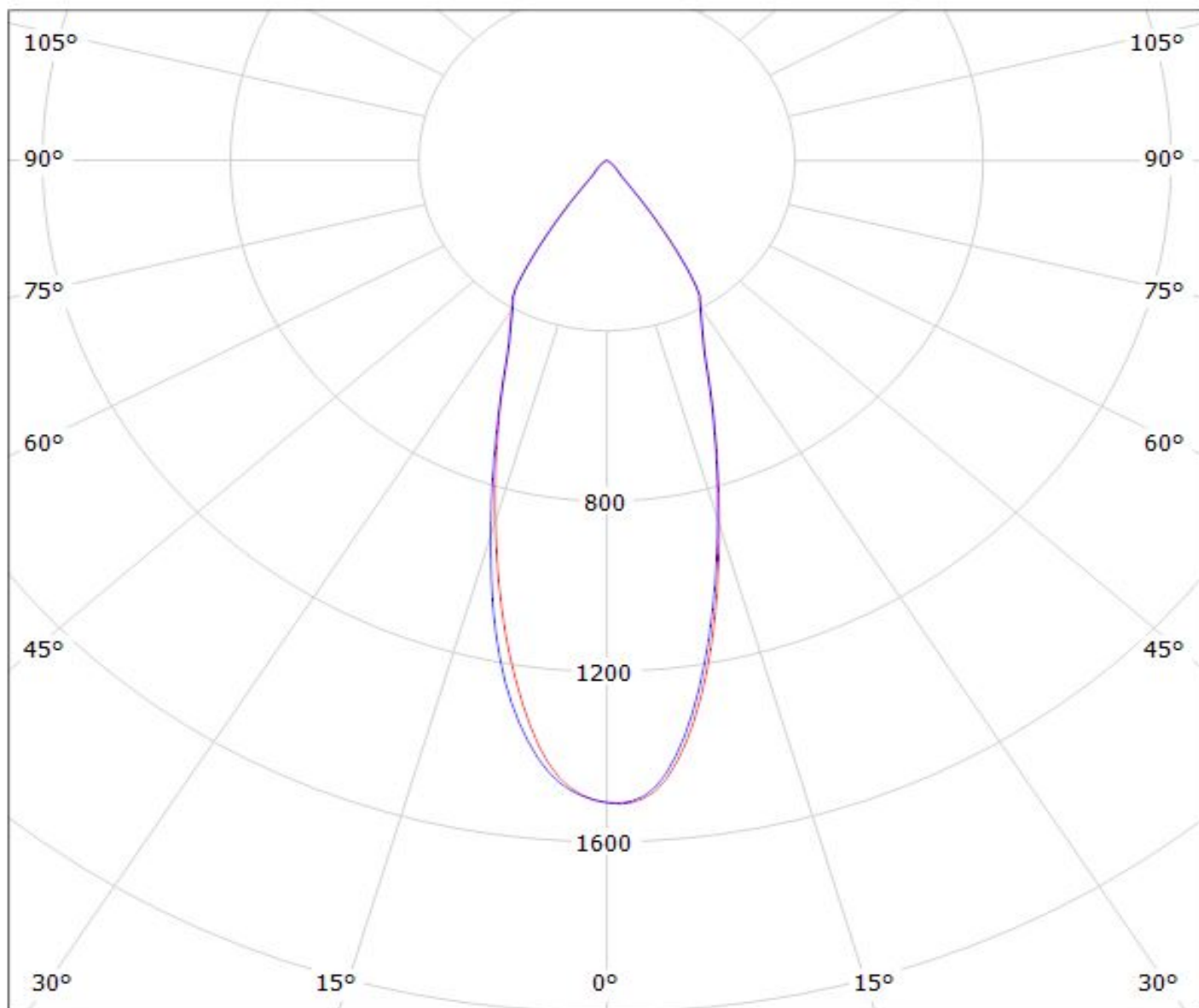


cd/klm

$\eta = 82\%$

— C0 - C180 — C90 - C270

Luminaire: LEDiL Oy F13664_ANGELA-W-B_(Luxeon_CoB_1211)
Lamps: 1 x LUXEON_COB_1211_(LHC1-2790-1211)
_923.583lm@250mA_CCT=2700K_P=8.00909W_I=249.8mA

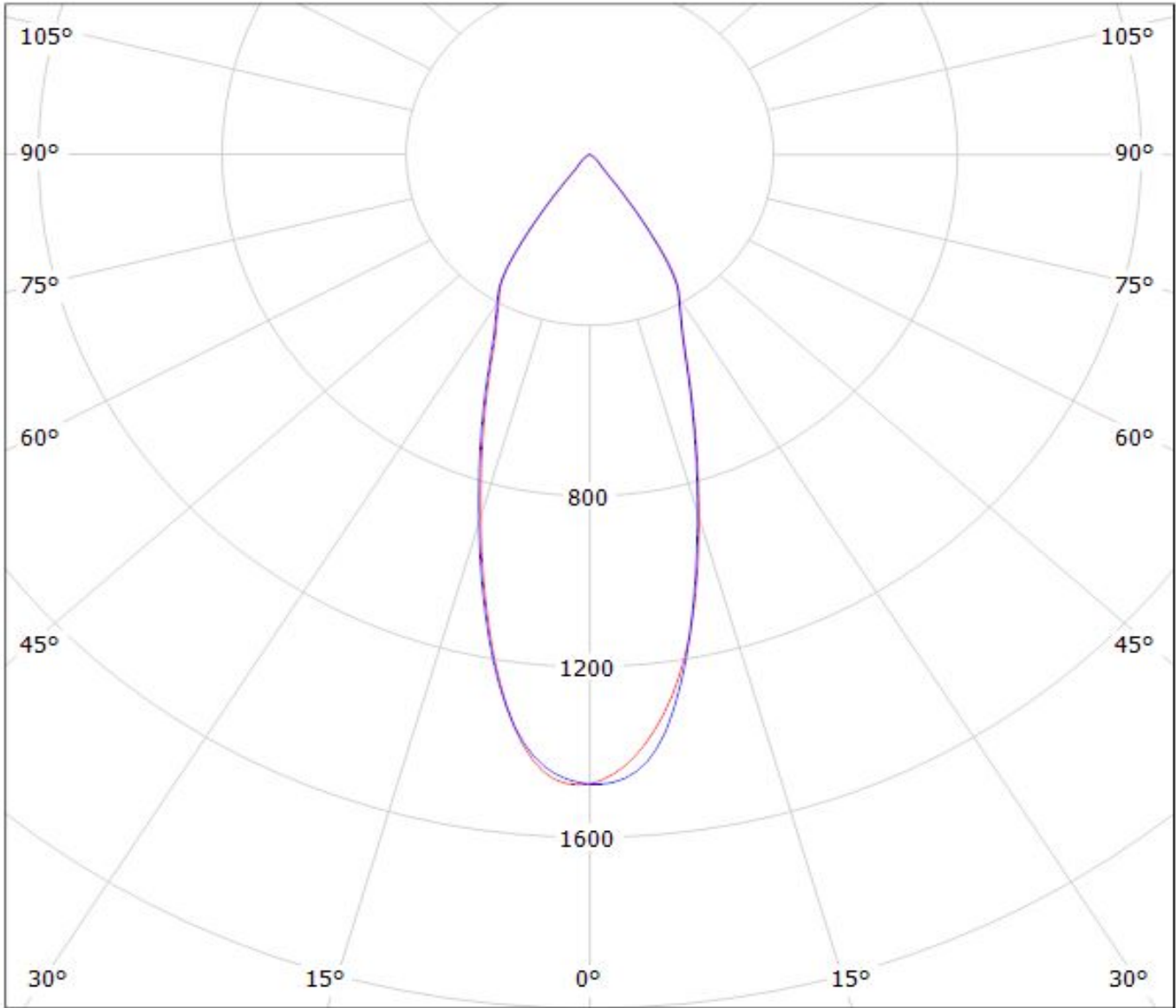


cd/klm

— C0 - C180 — C90 - C270

$\eta = 82\%$

Luminaire: LEDiL Oy F13664_ANGELA-W-B_(E30) Eff.81.5%
Lamps: 1 x Osram_Soleroiq_E30_1364.86lm@250mA_P=10.2445W_I=249.8mA



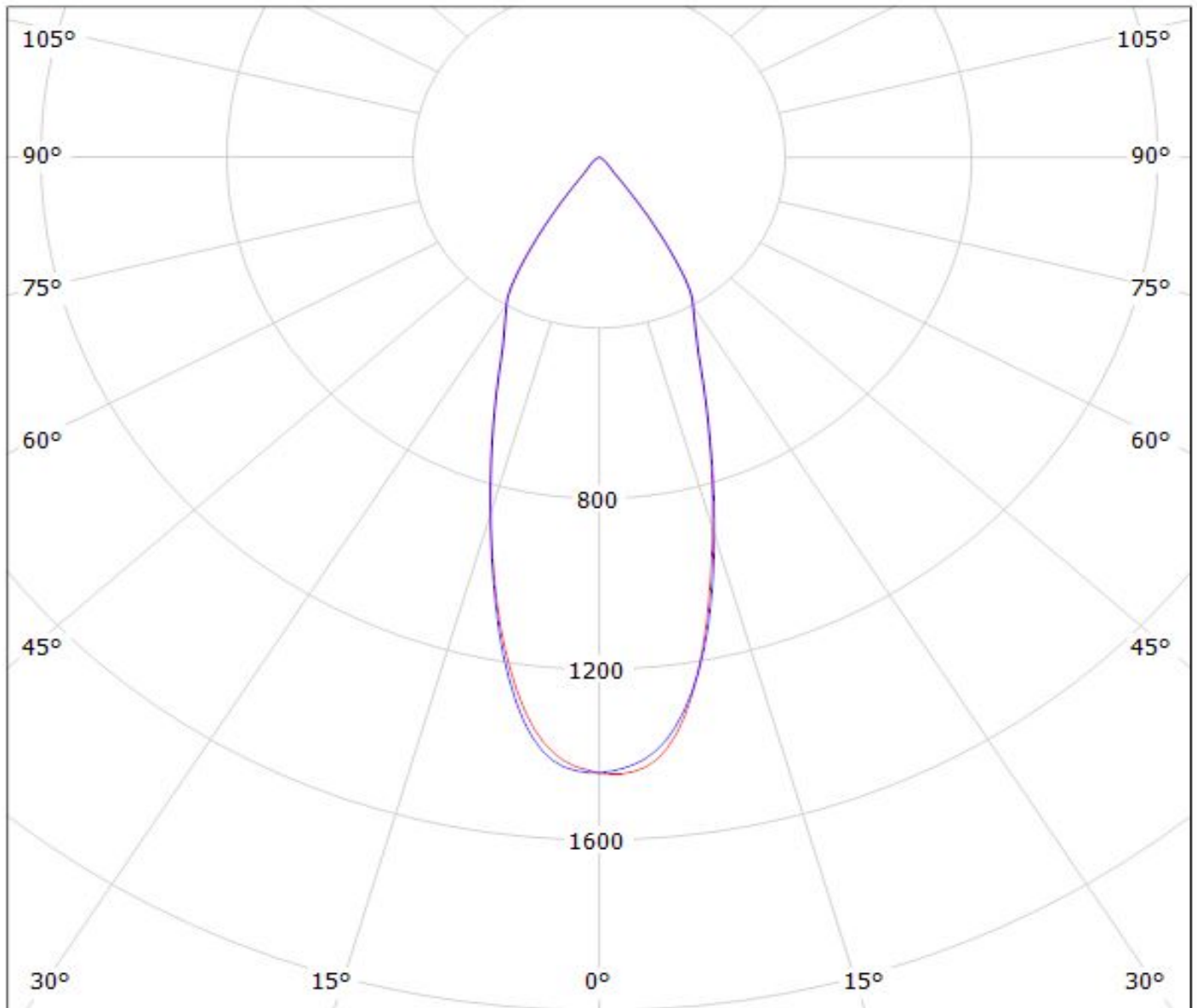
cd/klm

$\eta = 81\%$

— C0 - C180 — C90 - C270

Luminaire: LEDiL Oy F13664_ANGELA-W-B_(CXA30)

Lamps: 1 x Cree_CXA30_(CXA3050-3C0-Y2-N0H)_1395.36lm@250mA_P=8.20318W_I=249.8mA

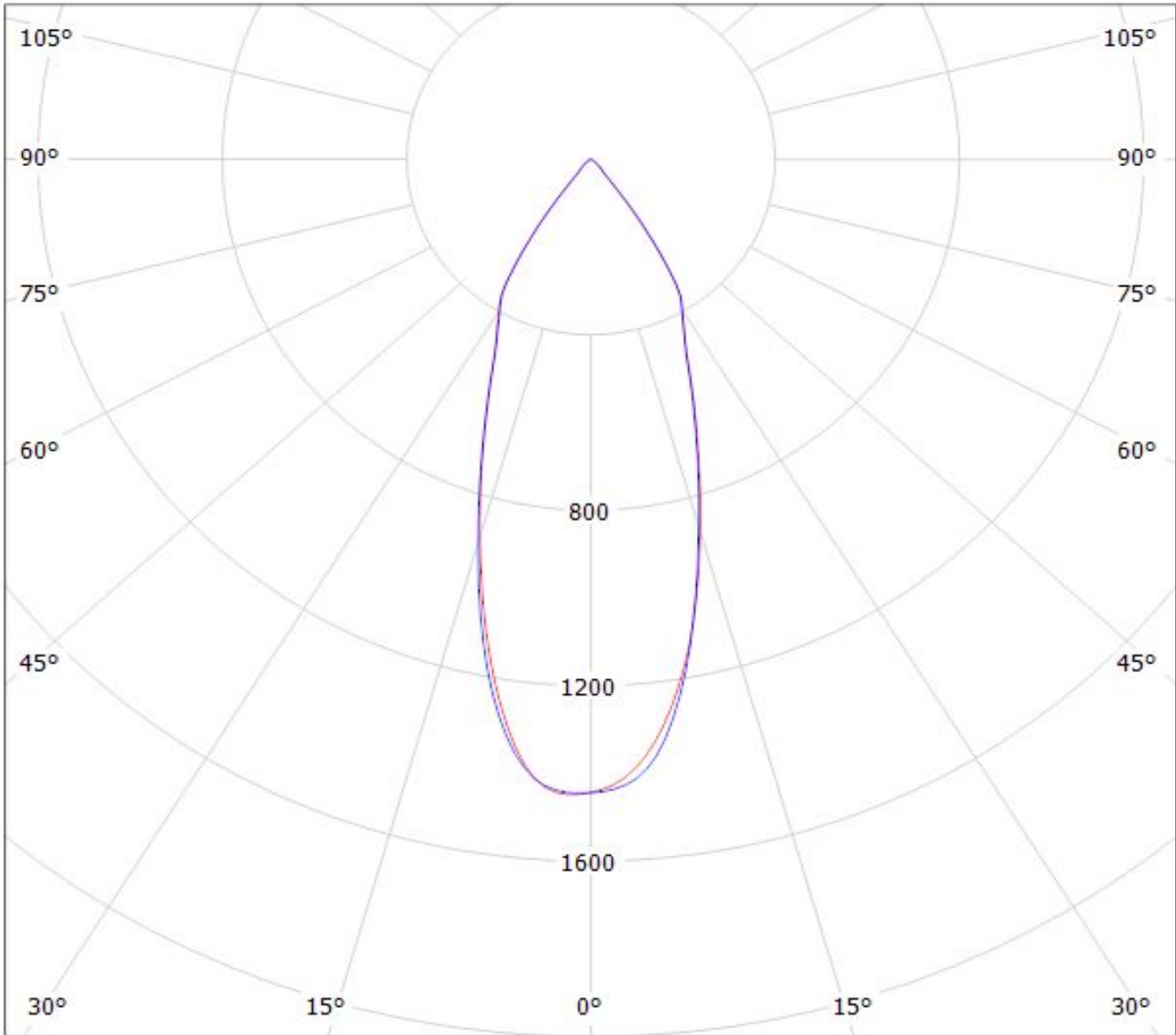


cd/klm

— C0 - C180 — C90 - C270

$\eta = 81\%$

Luminaire: LEDiL Oy F13664_ANGELA-W-B_(CLL040) Eff.81.8%
Lamps: 1 x Citizen_CLL040_1011.32lm@250mA_P=8.24545W_I=249.9mA



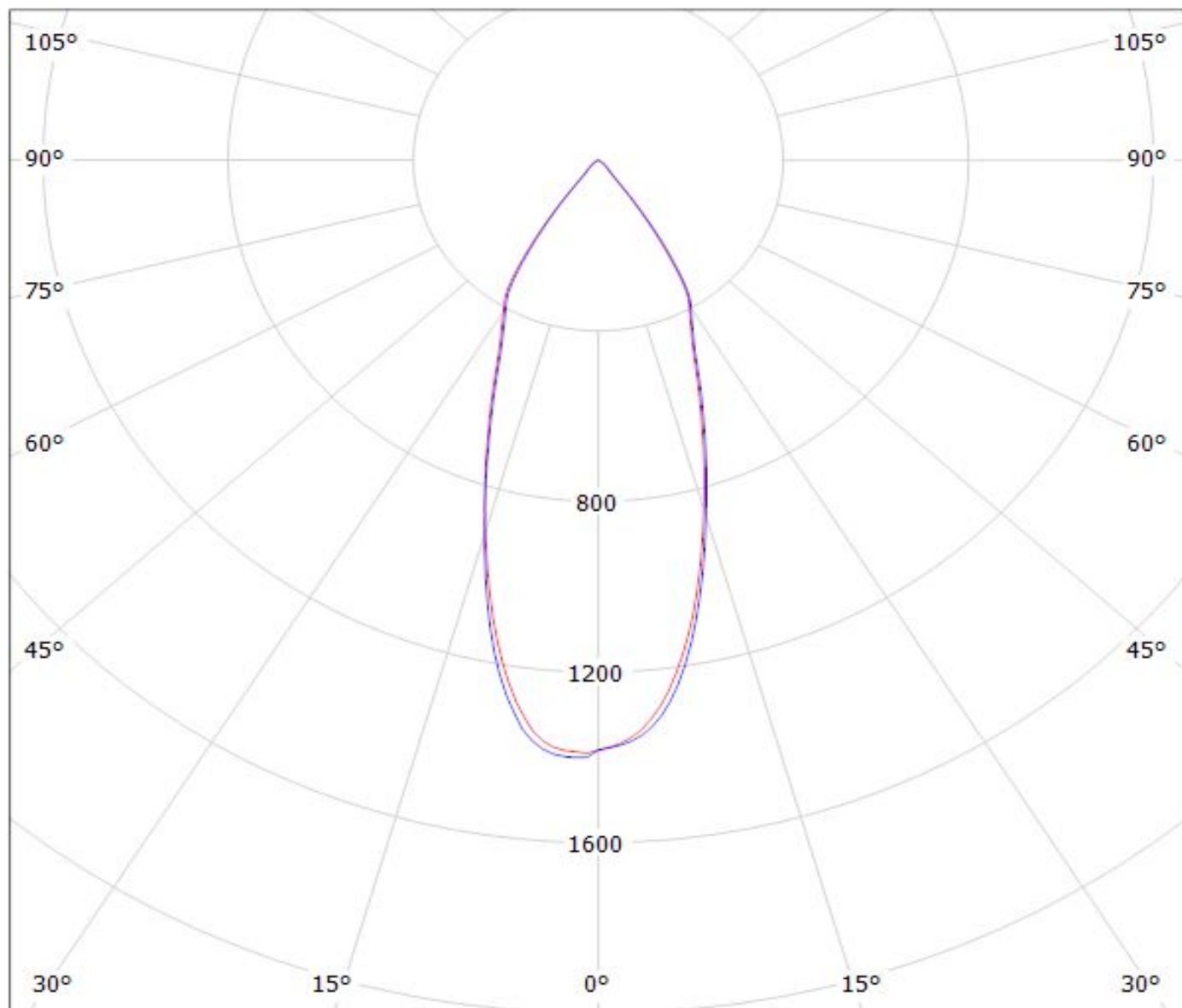
cd/klm

— C0 - C180 — C90 - C270

$\eta = 82\%$

Luminaire: LEDiL Oy F13664_ANGELA-W-B_(COB_40W)

Lamps: 1 x LG_COB_40W_1163.31lm@250mA_CCT=3000K_P=8.04906W_I=249.8mA



cd/klm

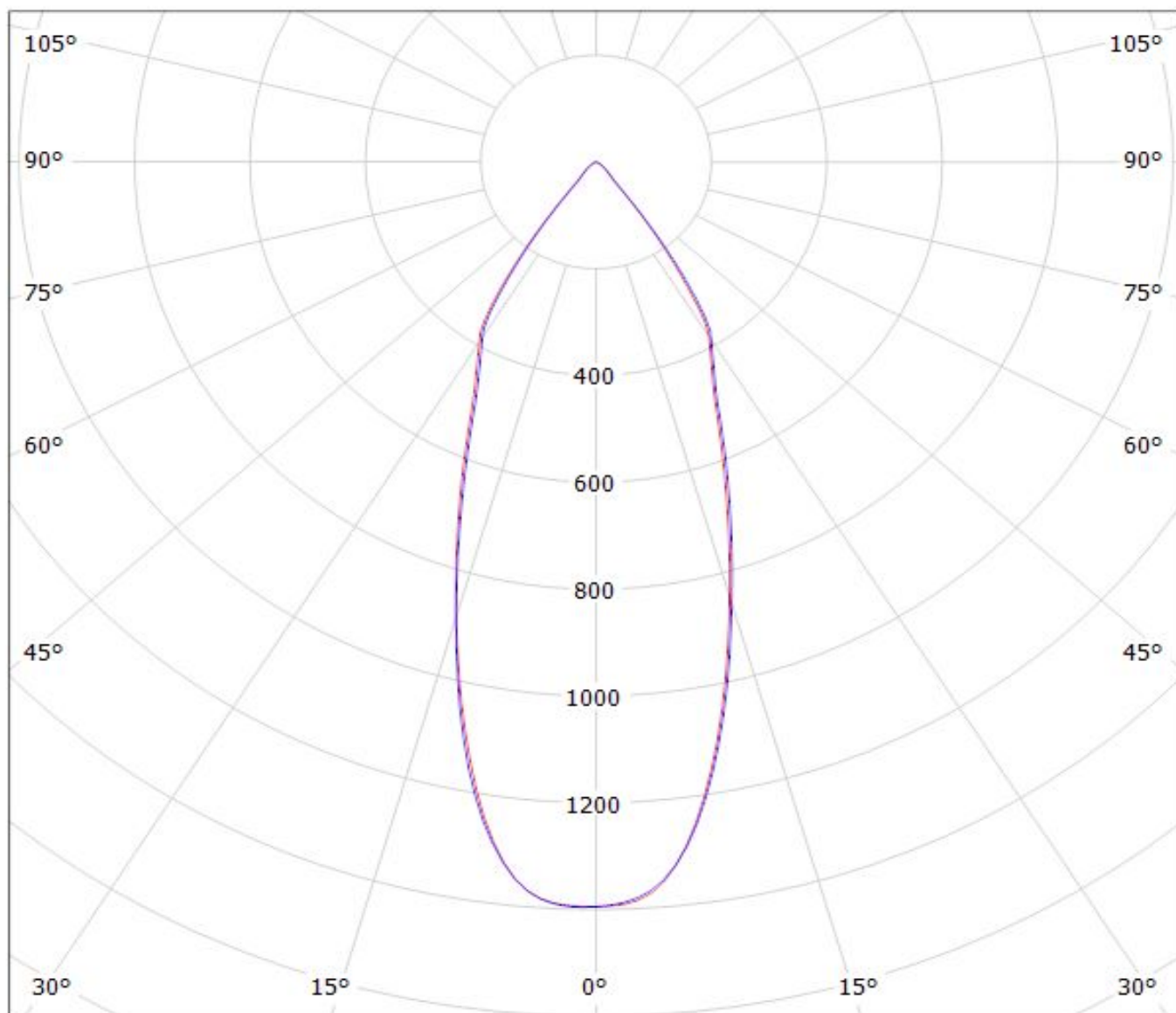
— C0 - C180

— C90 - C270

$\eta = 81\%$

Luminaire: LEDiL Oy F13664_ANGELA-W-B_(CLU044)

Lamps: 1 x Citizen_CLU044_(CLU044-1212B8-303M1A2)_1300.9lm@250mA_P=8.14849W_I=249.9mA



cd/klm

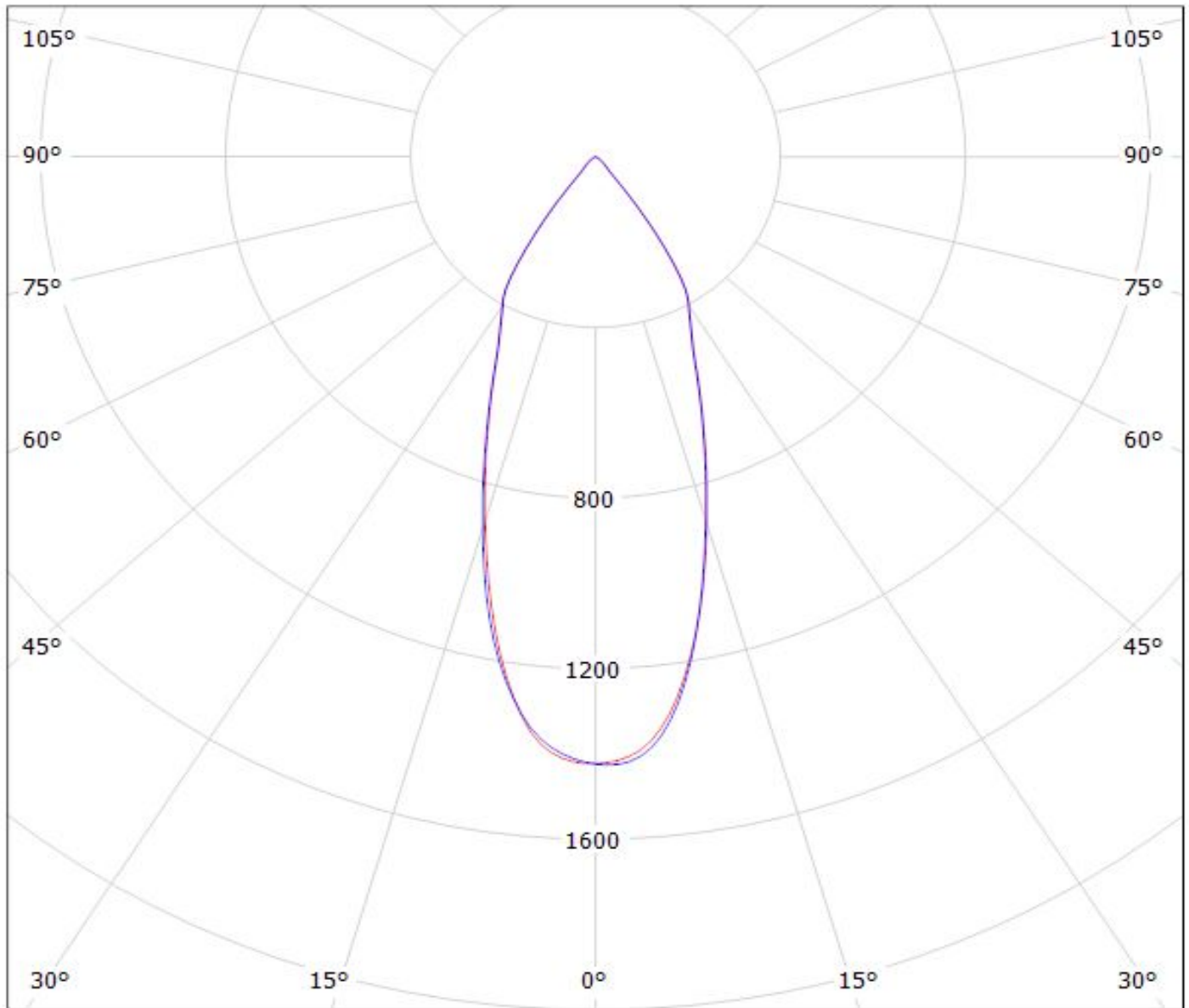
— C0 - C180

— C90 - C270

$\eta = 82\%$

Luminaire: LEDiL Oy F13664_ANGELA-W-B_(ZC40)

Lamps: 1 x SEOUL_ZC40_(SBWW5F1B)_1176.6lm@250mA_P=8.22171W_I=249.9mA



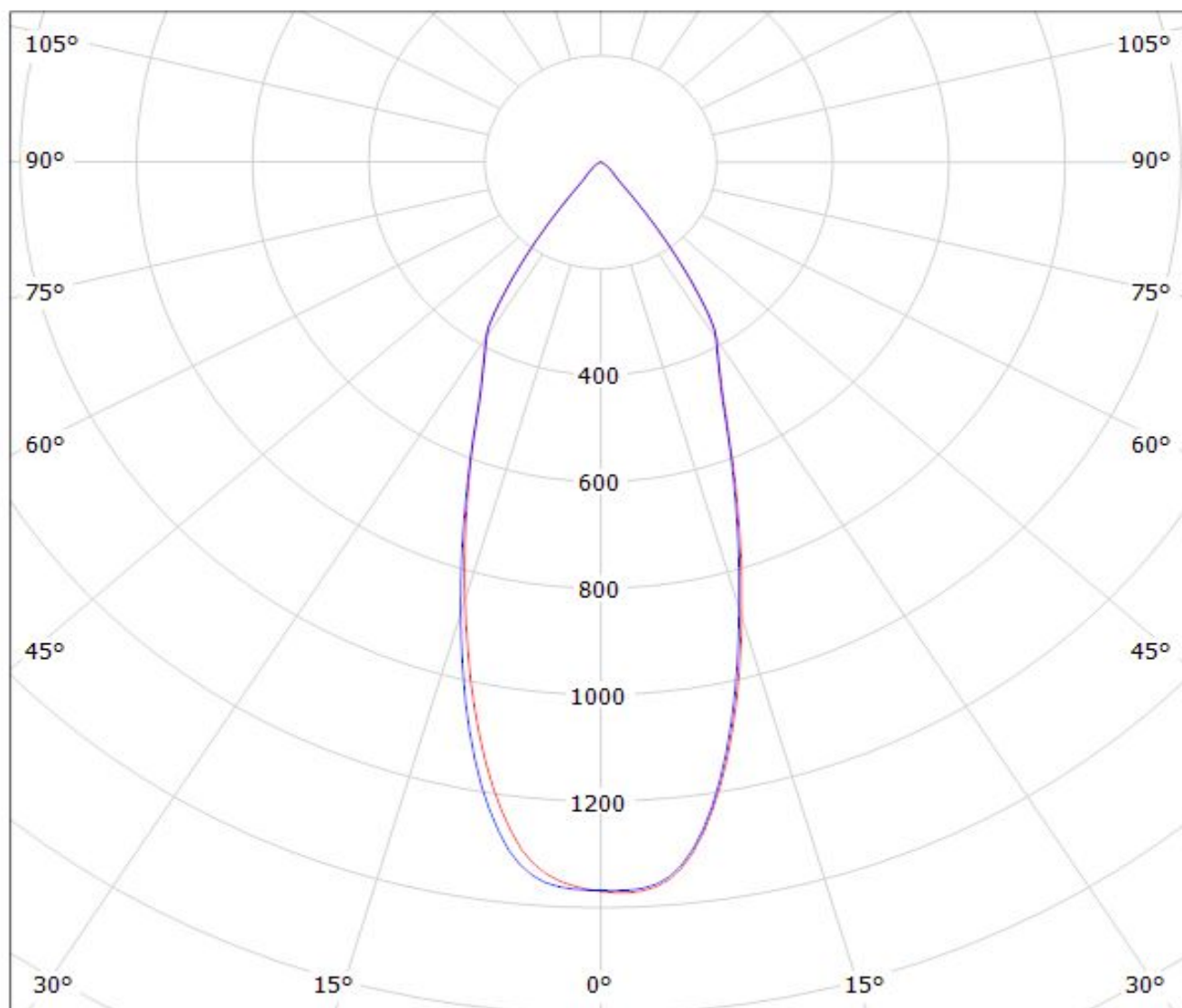
cd/klm

— C0 - C180

— C90 - C270

$\eta = 82\%$

Luminaire: LEDiL Oy F13664_ANGELA-W-B_(CXM-22) Eff.81.5%
Lamps: 1 x LUMINUS_CXM-22_1221.8lm@250mA_P=8.00809W_CCT=3000K_I=249.8mA



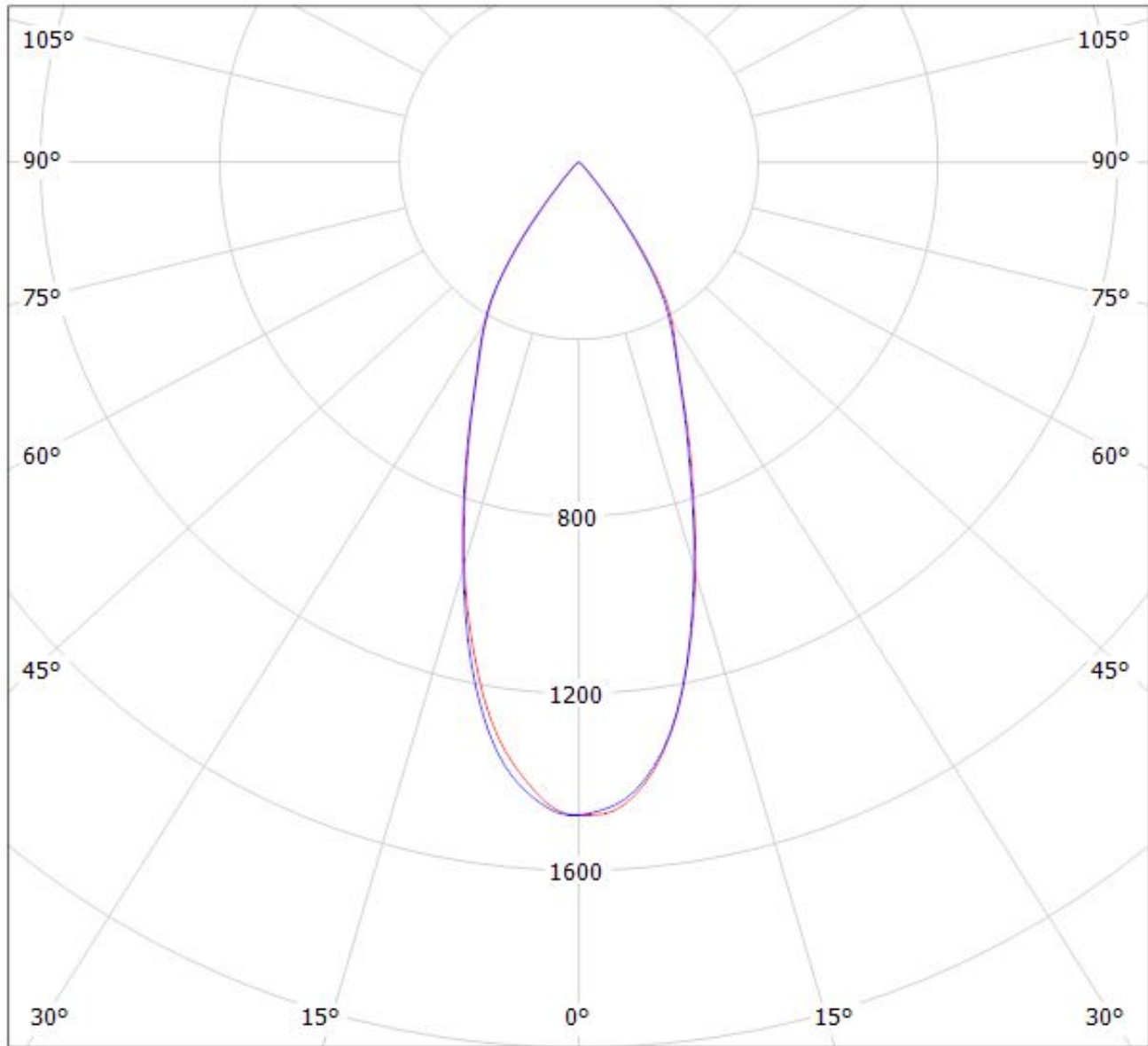
cd/klm

$\eta = 81\%$

— C0 - C180

— C90 - C270

Luminaire: Ledil Oy F13664_ANGELA-W-B_(ZC-40) Efficiency=82%
Lamps: 1 x Seoul ZC-40 (SBWW5F1B) 1153lm @ 250mA CCT= P=8.25W I=250mA



cd/klm

$\eta = 83\%$

— C0 - C180 — C90 - C270

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.