

DETAILS

Product Number	F13662_ANGELA-S-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: 8.5	Spot	sim: 92 %	sim: 22.200	BJB: Solderless Connector 47.319.2030
CLU720	7 deg	Spot	94 %	25.300	BJB: Solderless Connector 47.319.2021
CLU720	7 deg	Spot	94 %	25.000	A.A.G. STUCCHI: 8101/G2
Soleriq S13	8 deg	Spot	94 %	21.570	A.A.G. STUCCHI: 8502/G2
BXRA ES Rectangle	8 deg	Spot	94 %	20.740	BJB: Solderless Connector 47.319.2040
COB 10W/13W/17W/24W	8 deg	Spot	94 %	16.200	BJB: Solderless Connector 47.319.2080
LUXEON CoB 1204/1205	9 deg	Spot	93 %	19.200	A.A.G. STUCCHI: 8301/G2
COB 10W/13W/17W/24W	9 deg	Spot	93 %	19.240	A.A.G. STUCCHI: 8600/G2
ZC12/18	9 deg	Spot	93 %	18.400	A.A.G. STUCCHI: 8101/G2
CXM-14	9 deg	Spot	93 %	16.300	BJB: Solderless Connector 47.319.2021
LUXEON K12	9 deg	Spot	94 %	17.300	BJB: Solderless Connector 47.319.2070
CLL03x/CLU034	9 deg	Spot	94 %	18.300	BJB: Solderless Connector 47.319.2021
Soleriq P13	9.2 deg	Spot	93 %	18.050	A.A.G. STUCCHI: 8502/G2
Mega Zenigata (GW6DME)	10 deg	Spot	94 %	15.500	A.A.G. STUCCHI: 8301/G2
CLL03x/CLU034	10 deg	Spot	93 %	15.400	A.A.G. STUCCHI: 8101/G2
STARK SLE PURE G3 LES17	10 deg	Spot	93 %	14.500	A.A.G. STUCCHI: 8101/G2
Mega Zenigata (GW6DME)	10 deg	Spot	94 %	16.100	BJB: Solderless Connector 47.319.2011
LUXEON CoB 1208	10 deg	Spot	94 %	14.800	A.A.G. STUCCHI: 8301/G2
CXA/B 25xx	11 deg	Spot	92 %	11.590	A.A.G. STUCCHI: 8401/G2
LUXEON K16	11 deg	Spot	94 %	13.600	BJB: Solderless Connector 47.319.2070
SLE G4 LES19 H	11 deg	Spot	91 %	11.300	-
Soleriq S19	11 deg	Spot	93 %	13.050	BJB: Solderless Connector 47.319.2170
Soleriq E30	12 deg	Spot	91 %	9.400	BJB: Solderless Connector 47.319.2090
LUXEON CoB 1211	13 deg	Spot	90 %	9.400	BJB: Solderless Connector 47.319.2030
LUXEON CoB 1211	13 deg	Spot	91 %	9.500	A.A.G. STUCCHI: 8102/G2

D

C

B

A

4

4

LED position

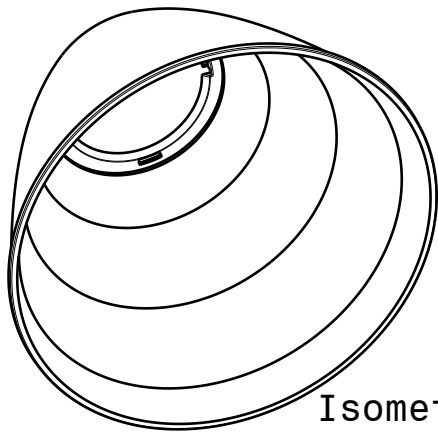
Ø 119.5

Ø 39

Bottom view
Scale: 1:2

3

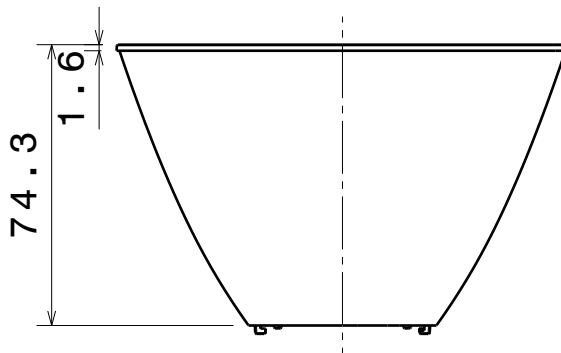
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Isometric view
Scale: 1:2

2

2



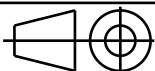
Front view
Scale: 1:2

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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of LEDiL Oy. It may not be
reproduced, copied or
communicated without a written
agreement with LEDiL Oy."

SIZE PART NUMBER

A4

-

SCALE 1:2 WEIGHT

-

SHEET 1/1

D

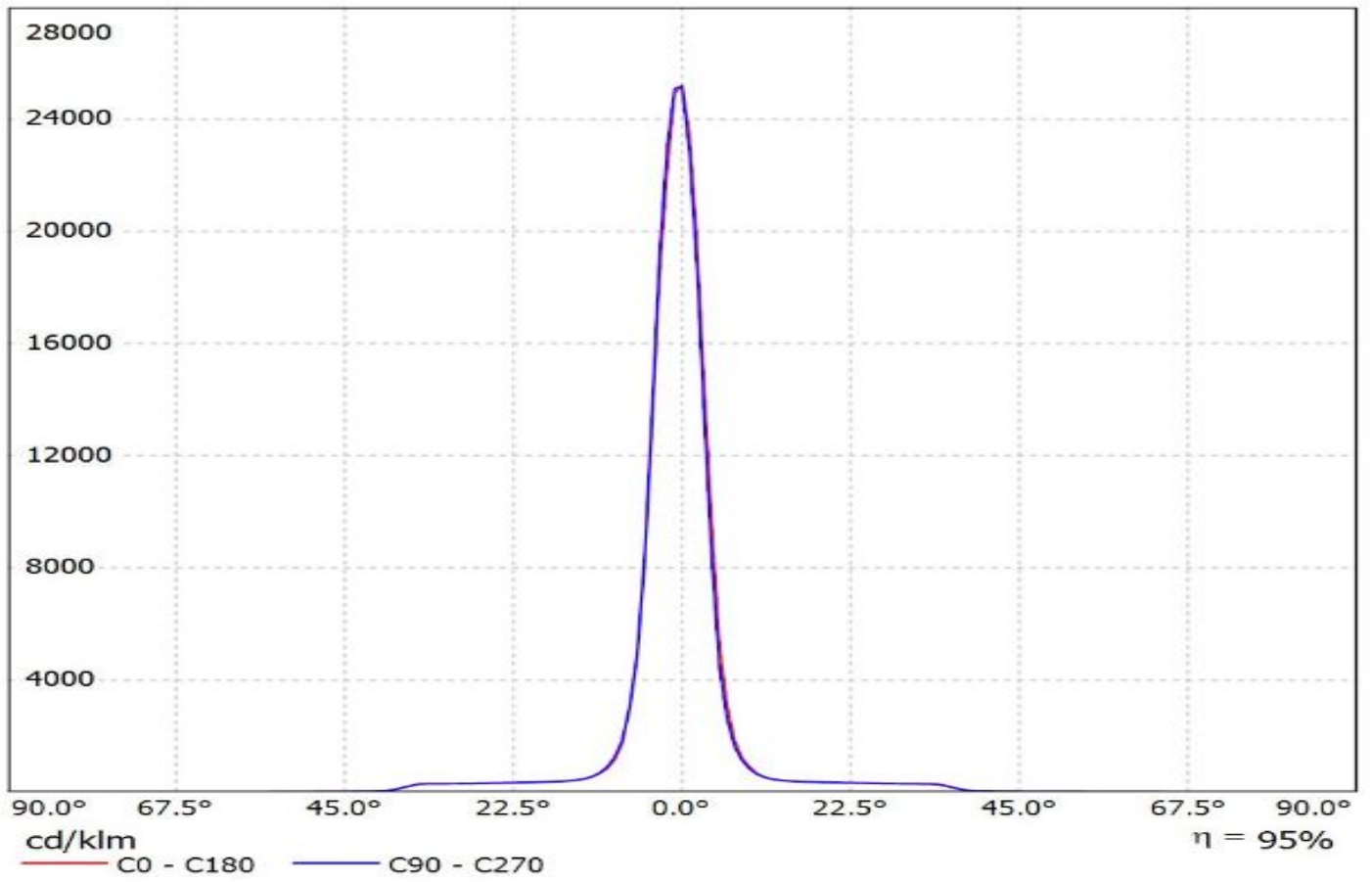
A

1

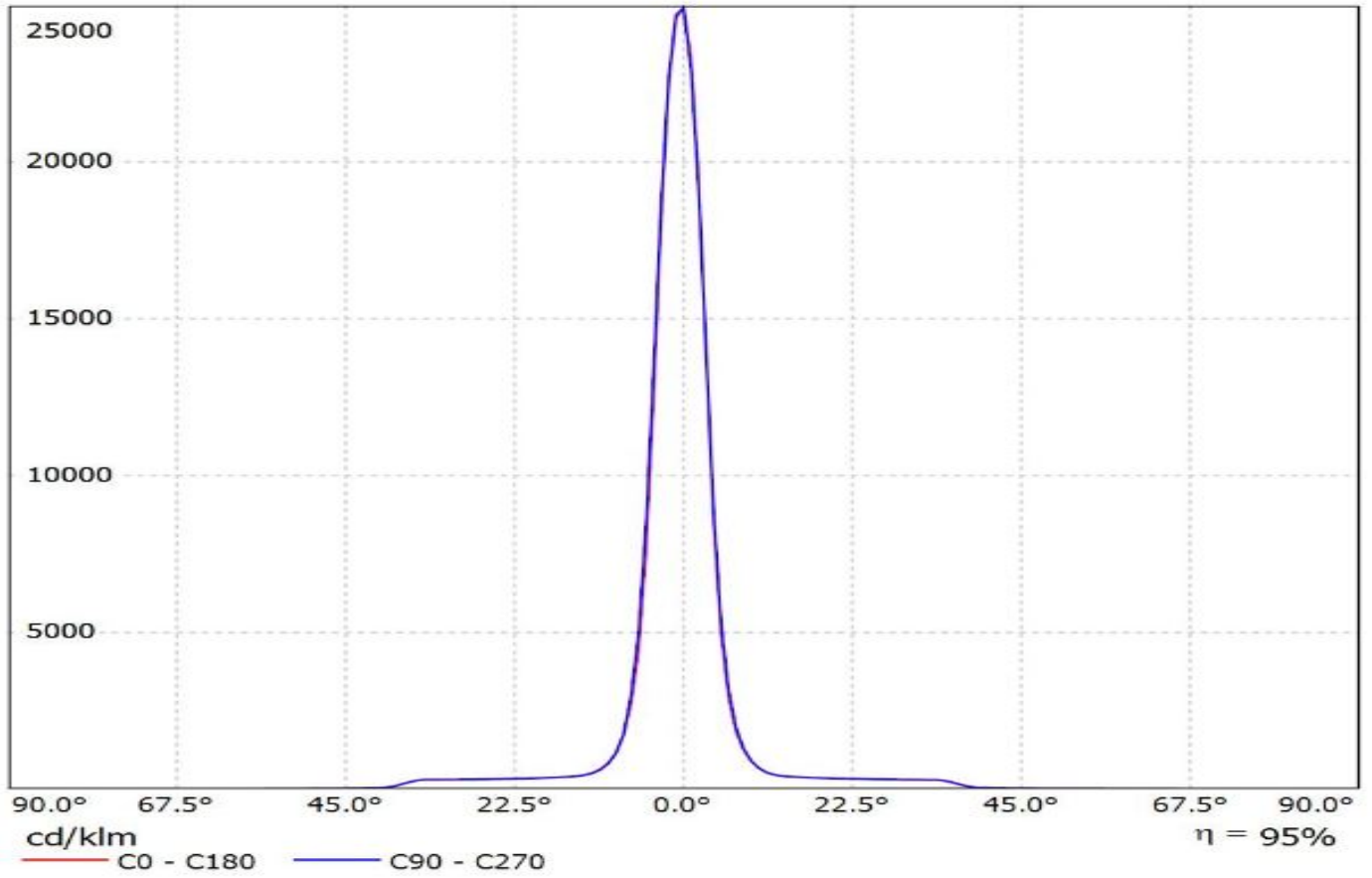
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Luminaire: Ledil F13662_ANGELA-S-B_(CITIZEN_CLU720)

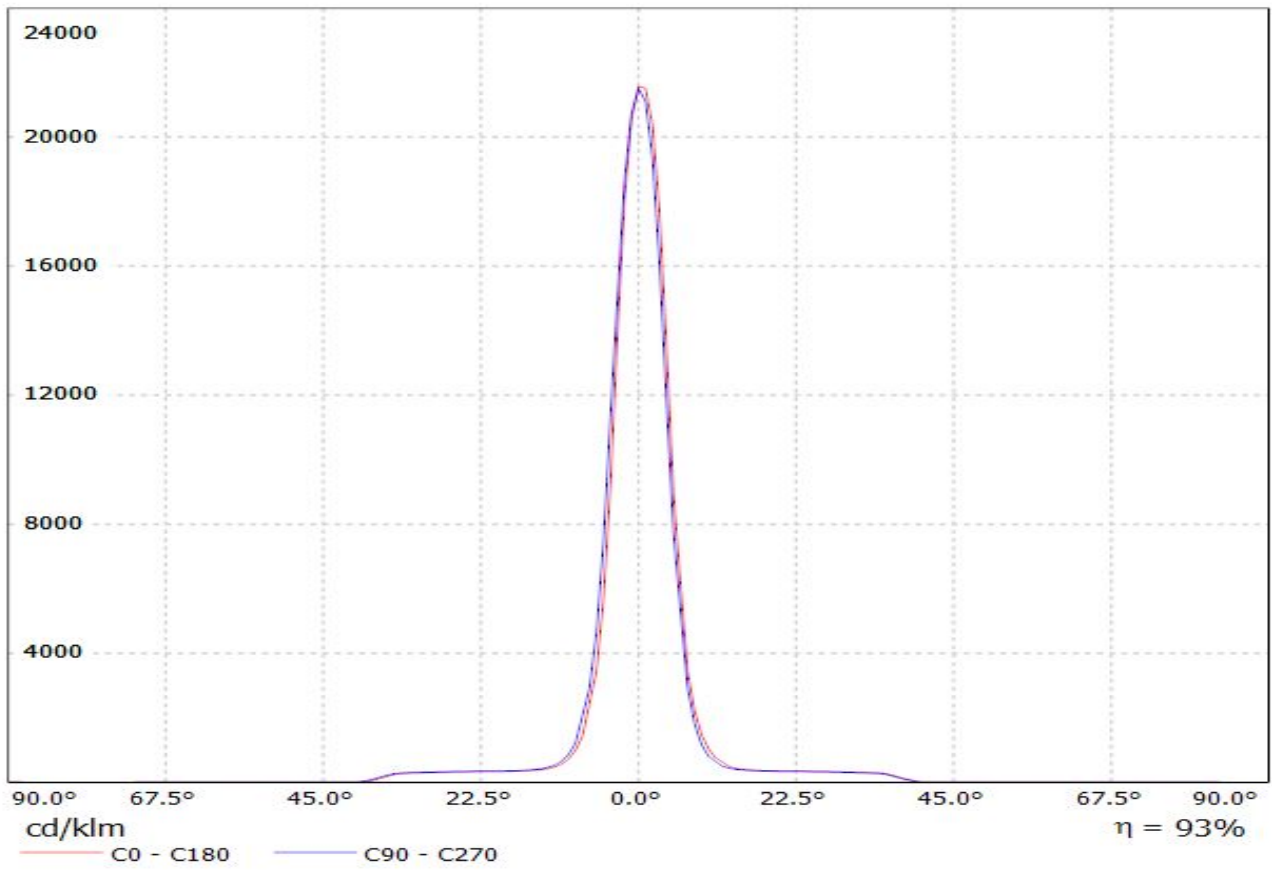
Lamps: 1 x CITIZEN_CLU720_(BJB: 47.319.2020)_1316.23lm@250mA_CCT=2700K_P=8.35W_I=0.25A



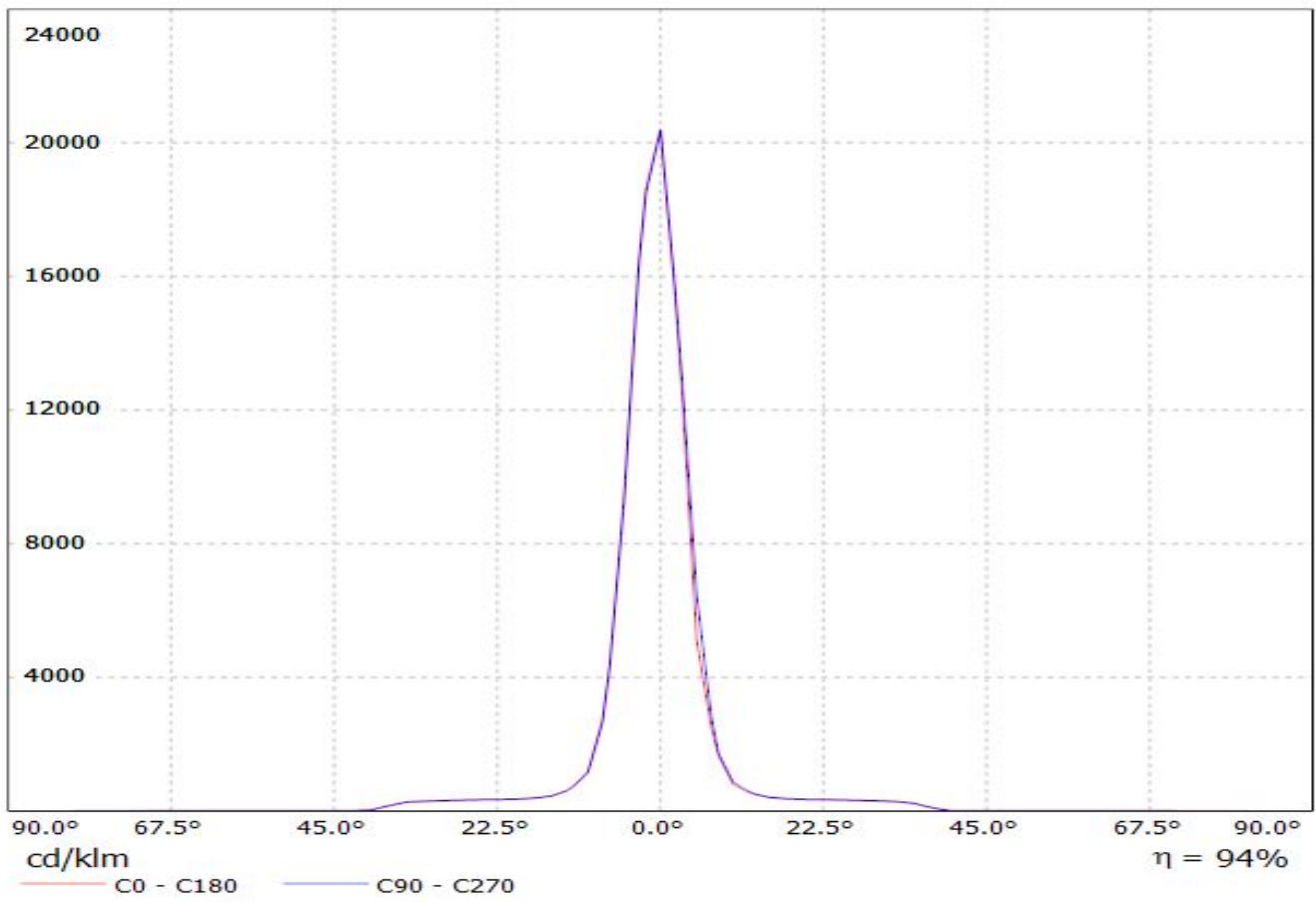
Luminaire: Ledil F13662_ANGELA-S-B_(CITIZEN_CLU720)
Lamps: 1 x CITIZEN_CLU720_(CLU720-1206B8-273M2)
_1320.42lm@250mA_CCT=2700K_P=8.35W_I=0.25A



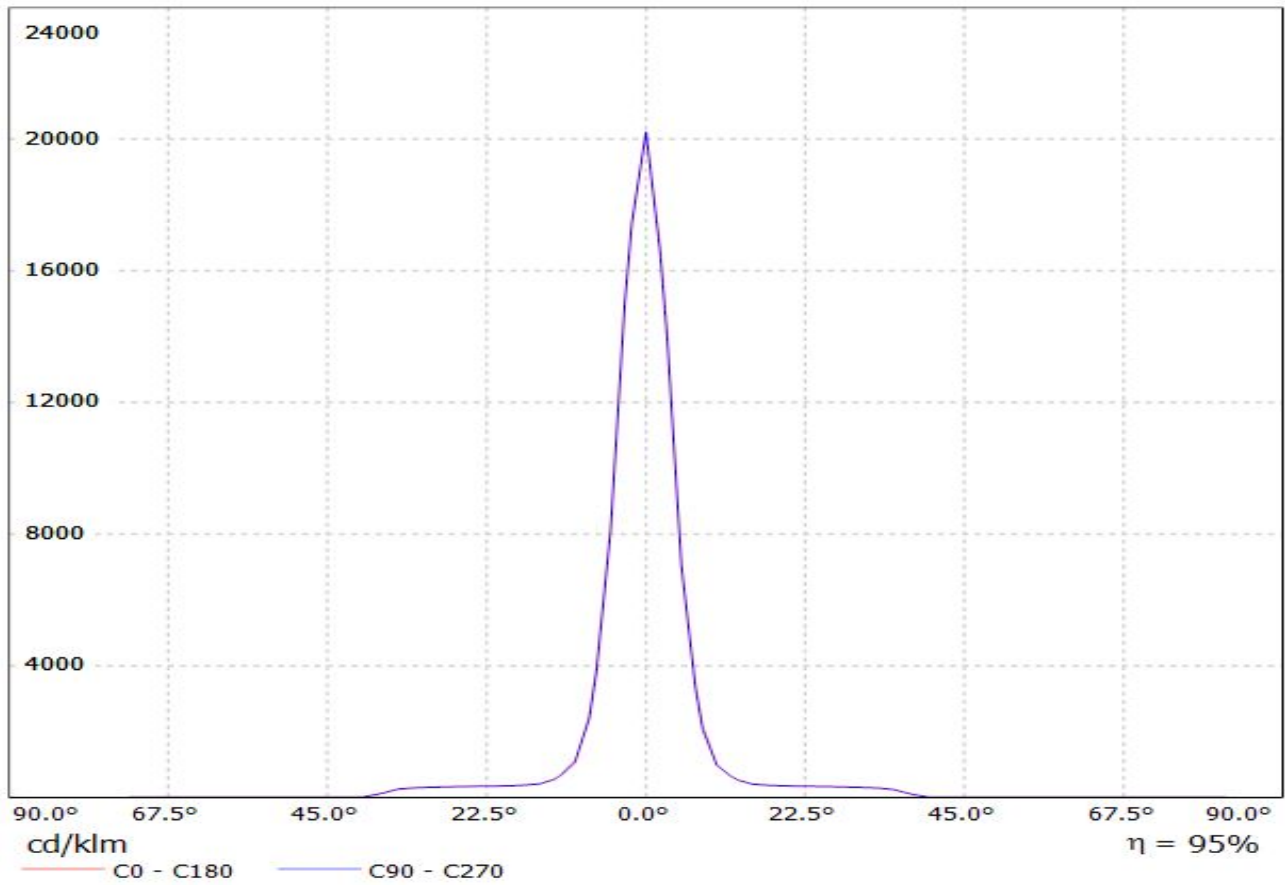
Luminaire: LEDiL Oy F13662_ANGELA-S-B_(S13) Eff.94.0%
Lamps: 1 x Osram_Soleriq_S13_901.003lm@250mA_P=7.48151W_I=249.9mA



Luminaire: LEDiL Oy F13662_ANGELA-S-B_(BXRA_ES) Eff.93.7%
Lamps: 1 x Bridgelux_BXRA_ES_287.055lm@250mA_P=4.09486W_I=249.9mA

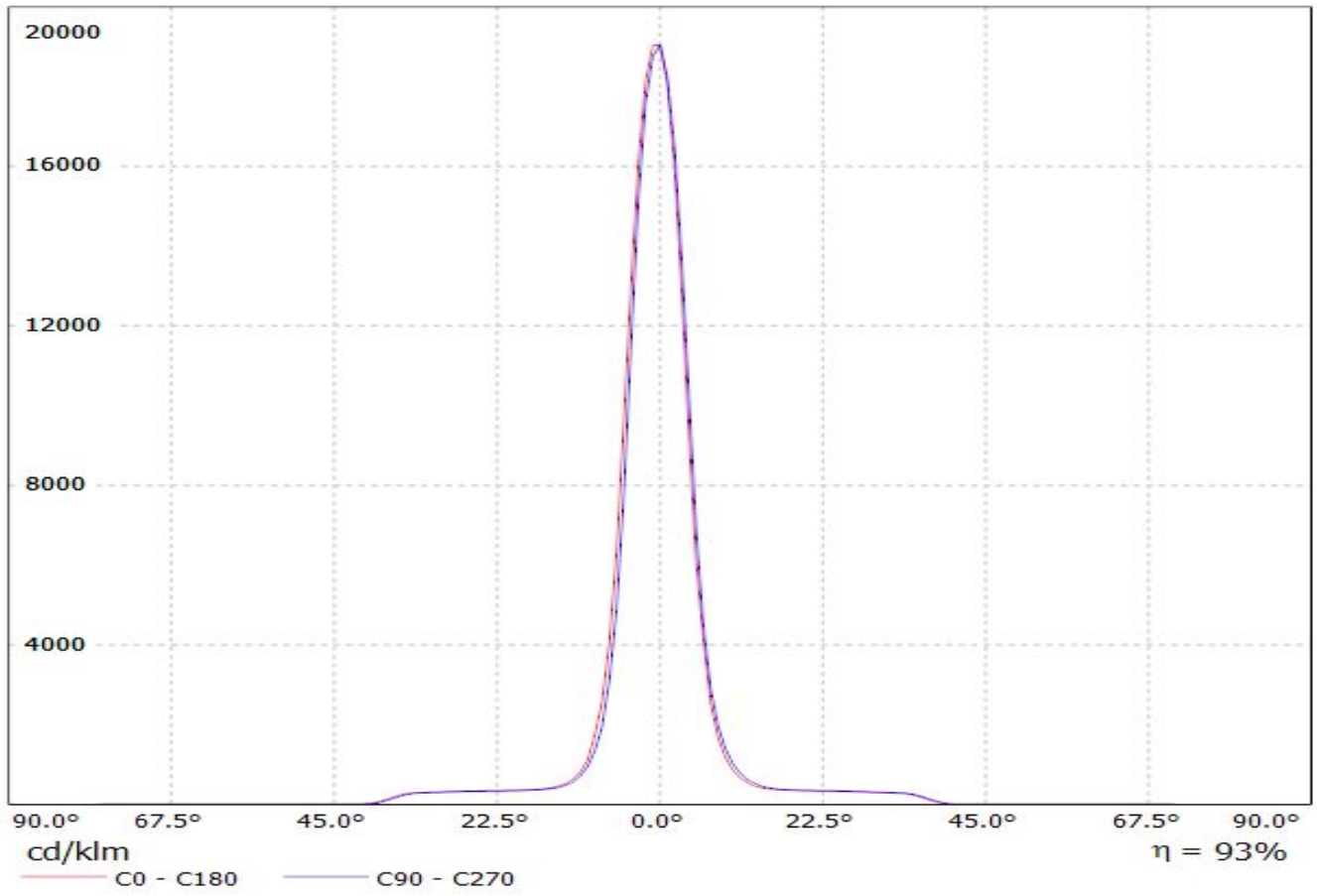


Luminaire: LEDiL Oy F13662_ANGELA-S-B_(COB-10W)
Lamps: 1 x LG_COB-10W_1065.13lm@250mA_P=9.09921W_I=249.8mA



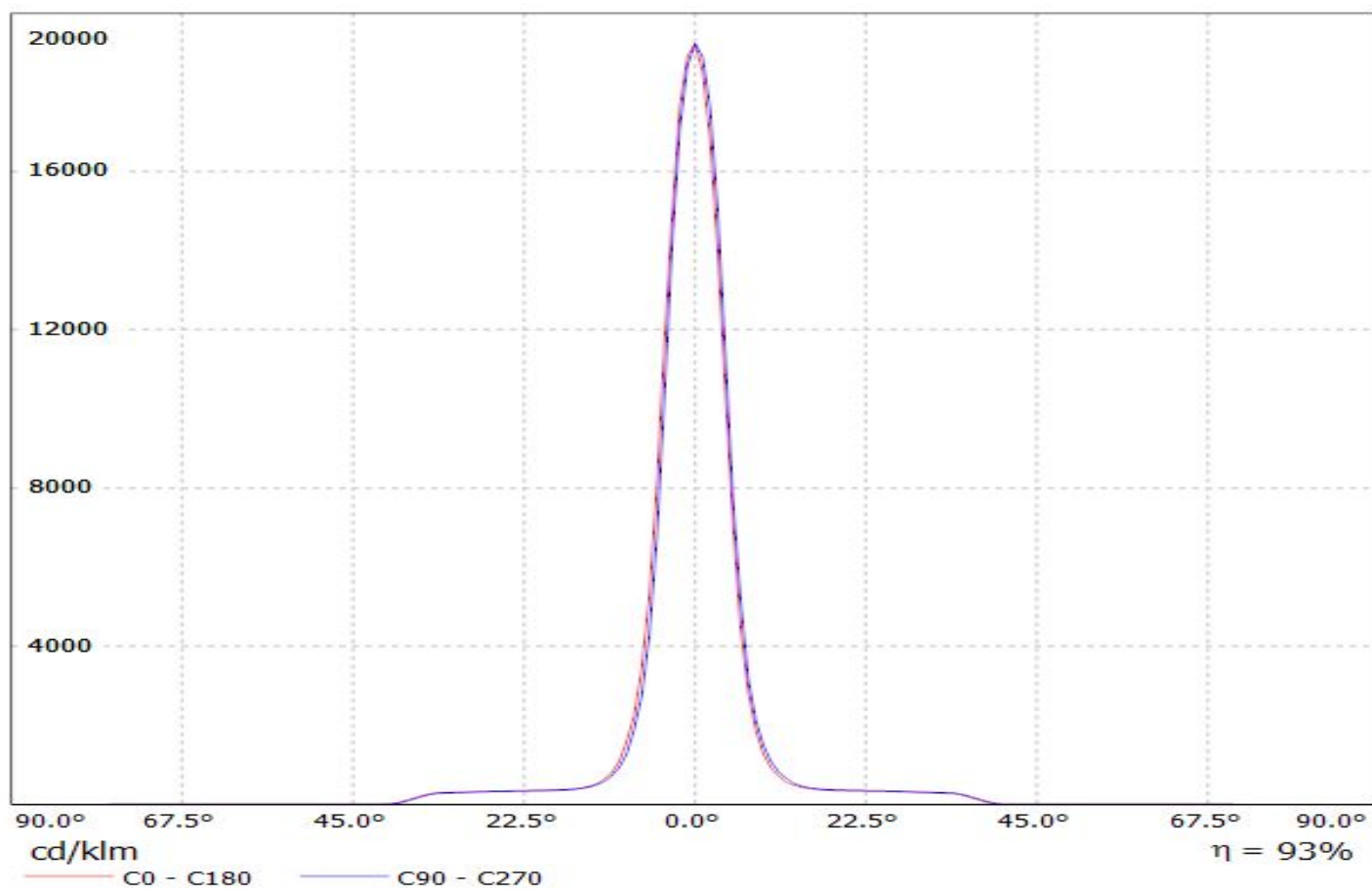
Luminaire: LEDiL Oy F13662_ANGELA-S-B_(Luxeon_CoB_1205)

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



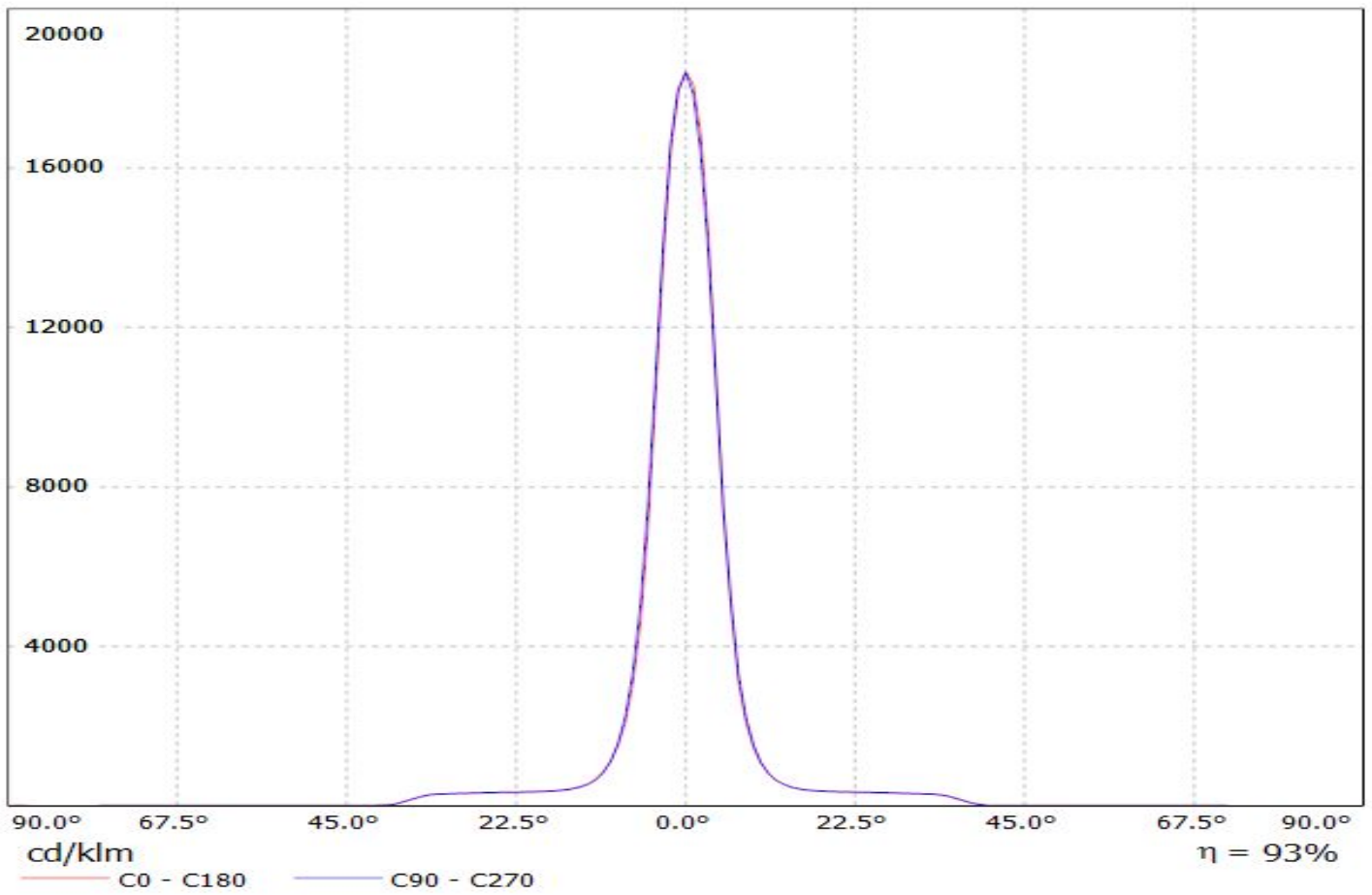
Luminaire: LEDiL Oy F13662_ANGELA-S-B_(LG_COB_10W)

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

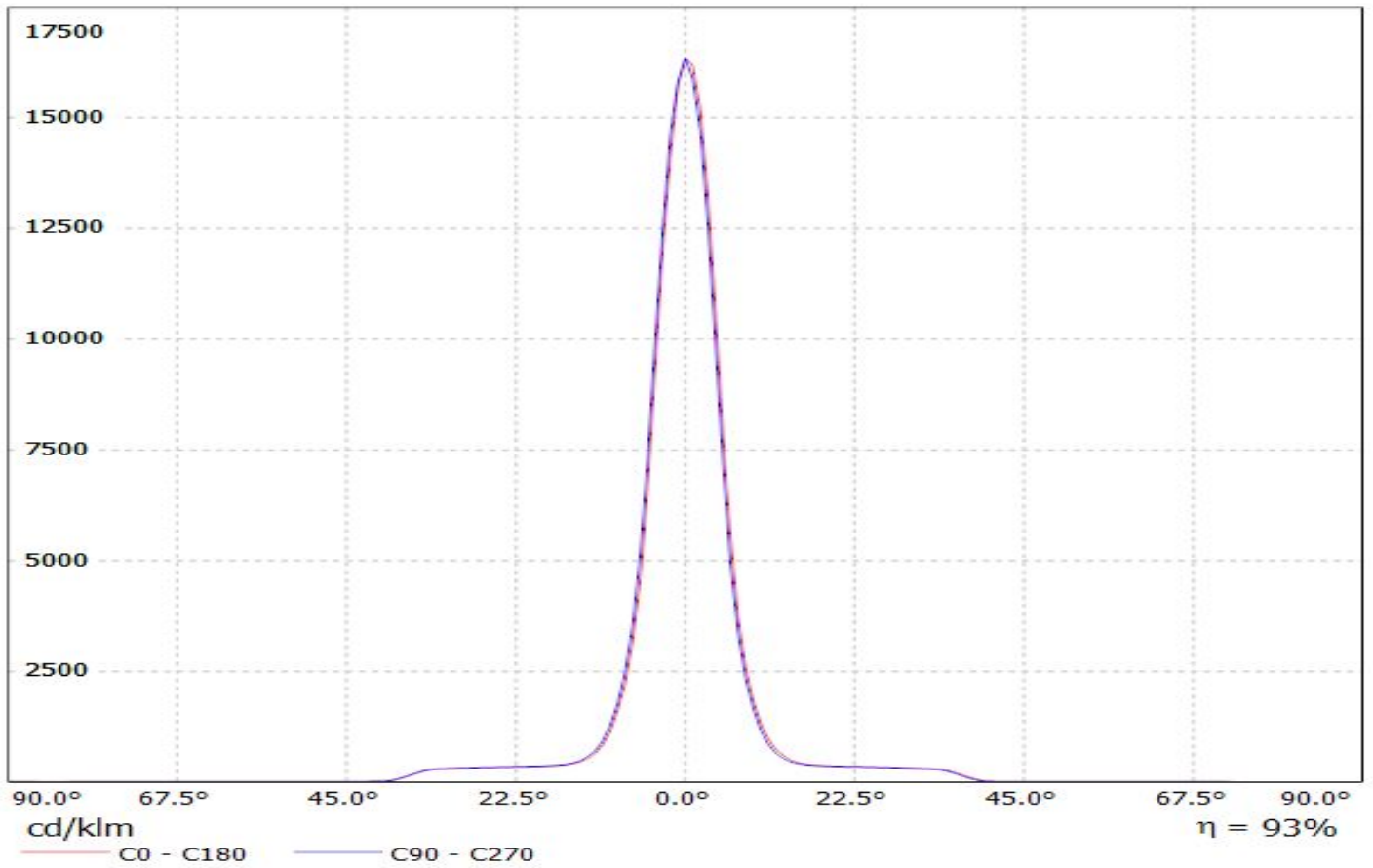


Luminaire: LEDiL Oy F13662_ANGELA-S-B_(ZC12)

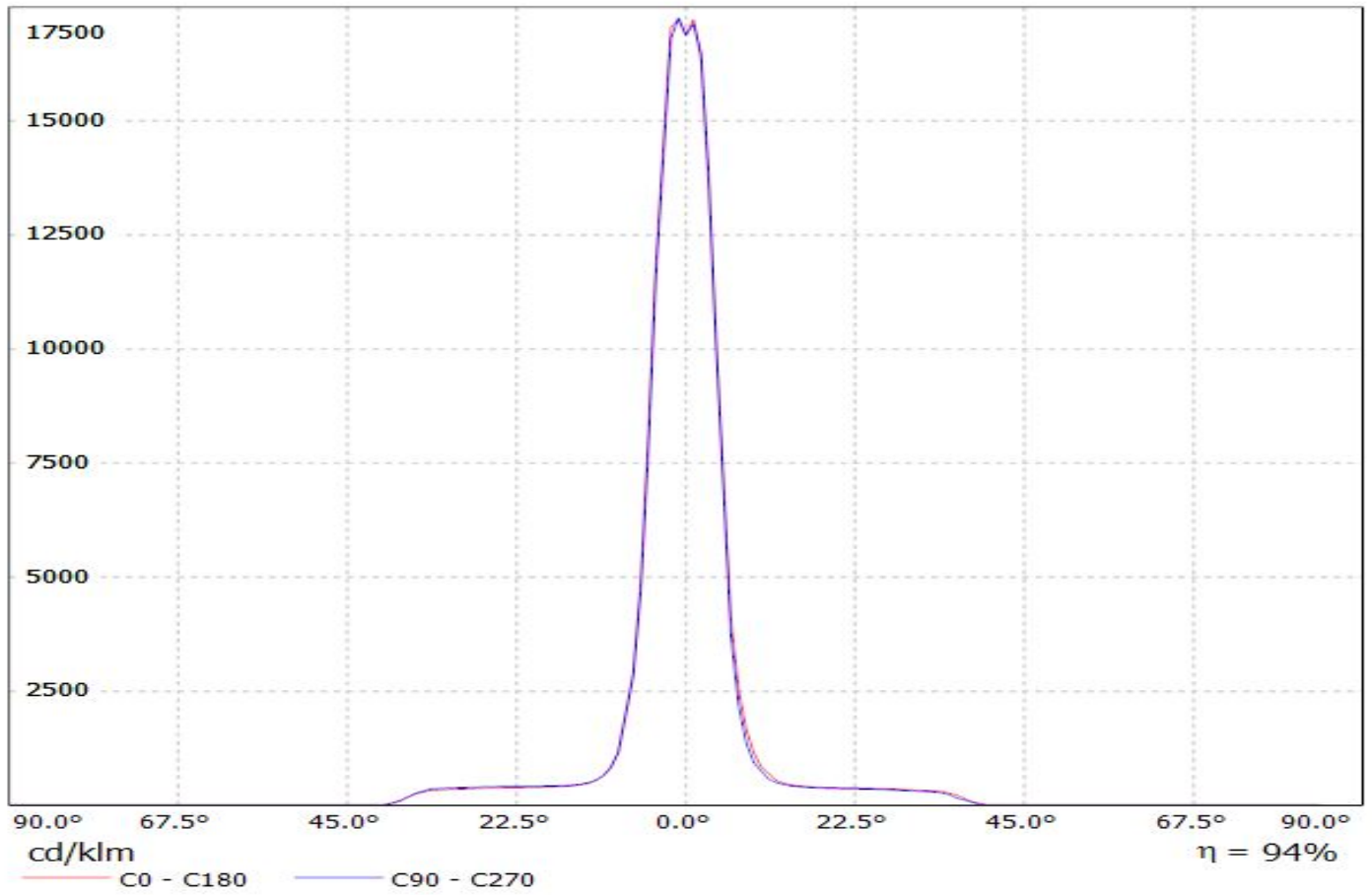
Lamps: 1 x SEOUL_ZC12_(SDW82F1C)_1240.73lm@250mA_P=8.68405W_I=249.8mA



Luminaire: LEDiL Oy F13662_ANGELA-S-B_(CXM-14)
Lamps: 1 x LUMINUS_XNOVA_CXM-14_(AC00)
_1049.18lm@250mA_CCT=3126K_P=8.31834W_I=249.8mA

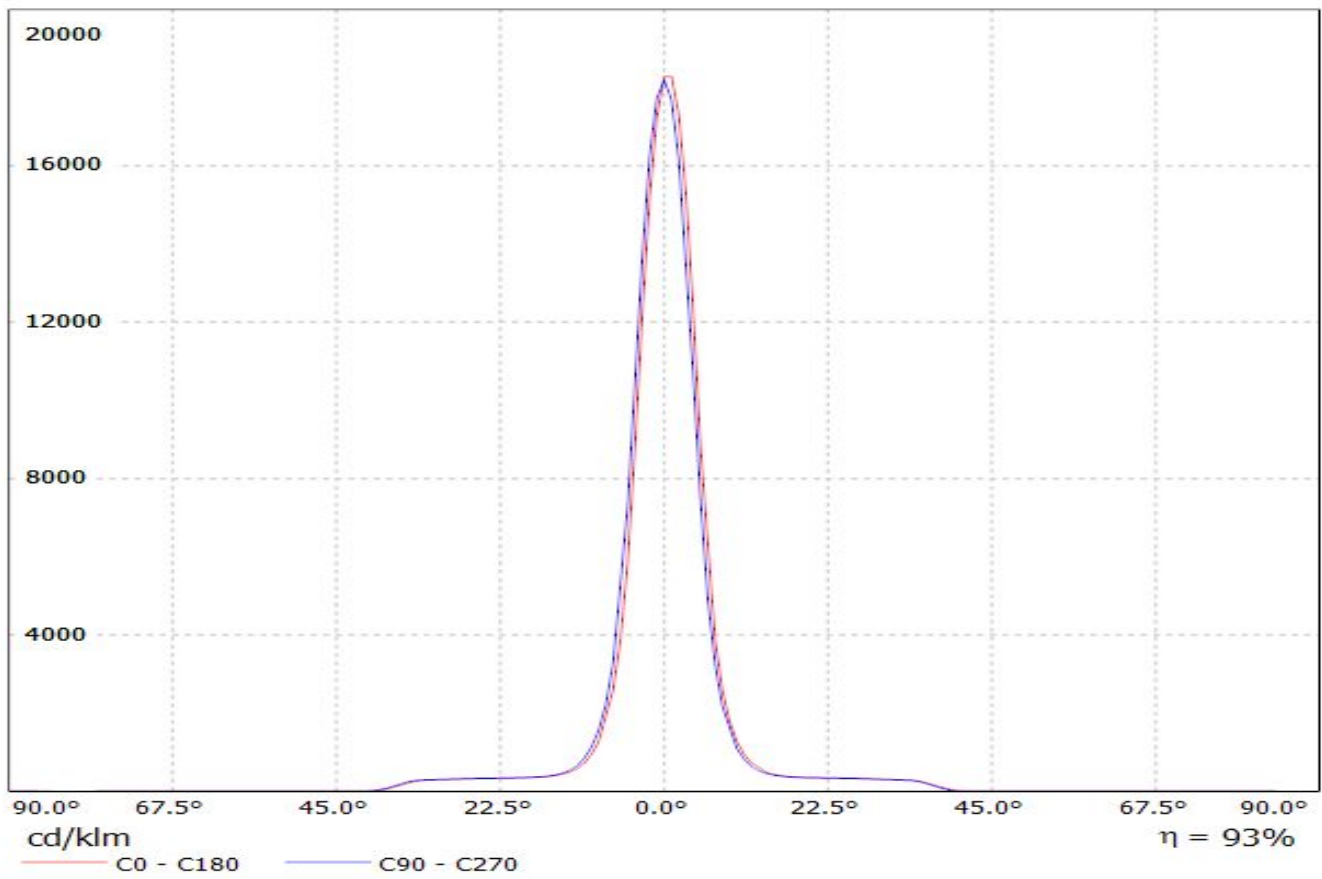


Luminaire: LEDiL Oy F13662_ANGELA-S-B_(K12) Eff.94.0%
Lamps: 1 x Luxeon_K12_922.262lm@250mA_P=8.18947W_I=249.9mA



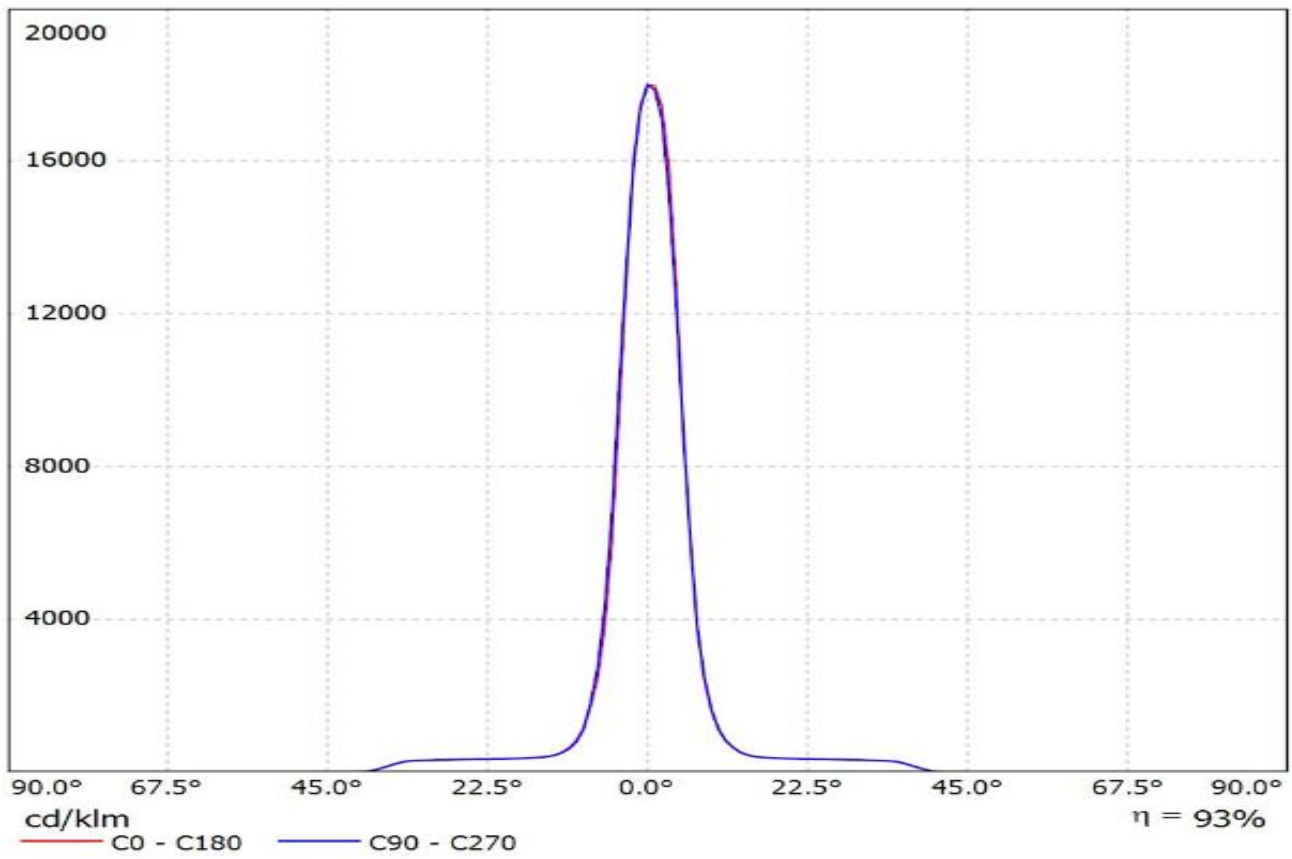
Luminaire: LEDiL Oy F13662_ANGELA-S-B_(CLL030)

Lamps: 1 x CITIZEN_CLL030_(CLL030-1206A1-303M1A2)_1046.22lm@250mA_P=8.46761W_I=249.9mA

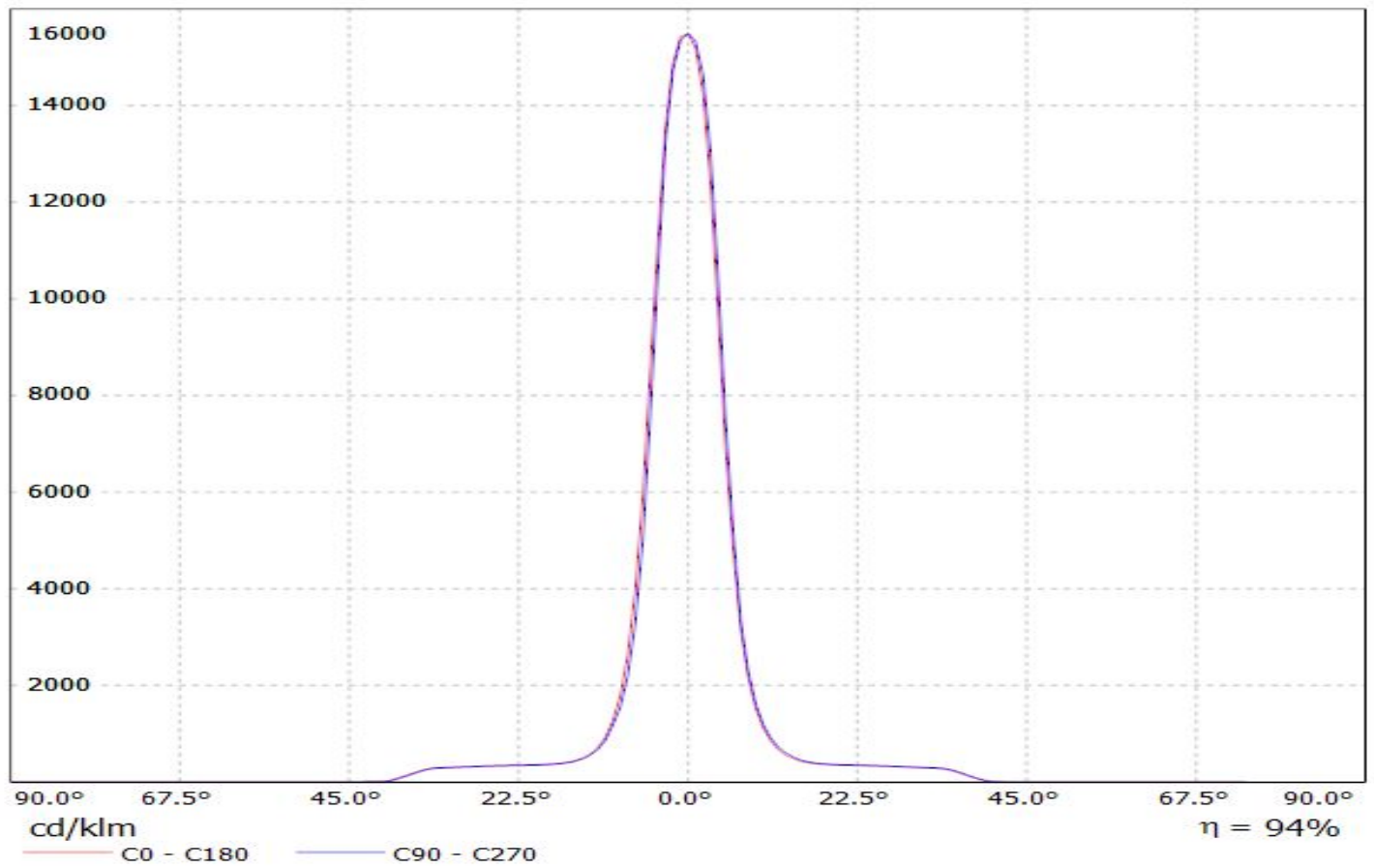


Luminaire: LEDiL Oy F13662_ANGELA-S-B_(SOLERIQ_P13)

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

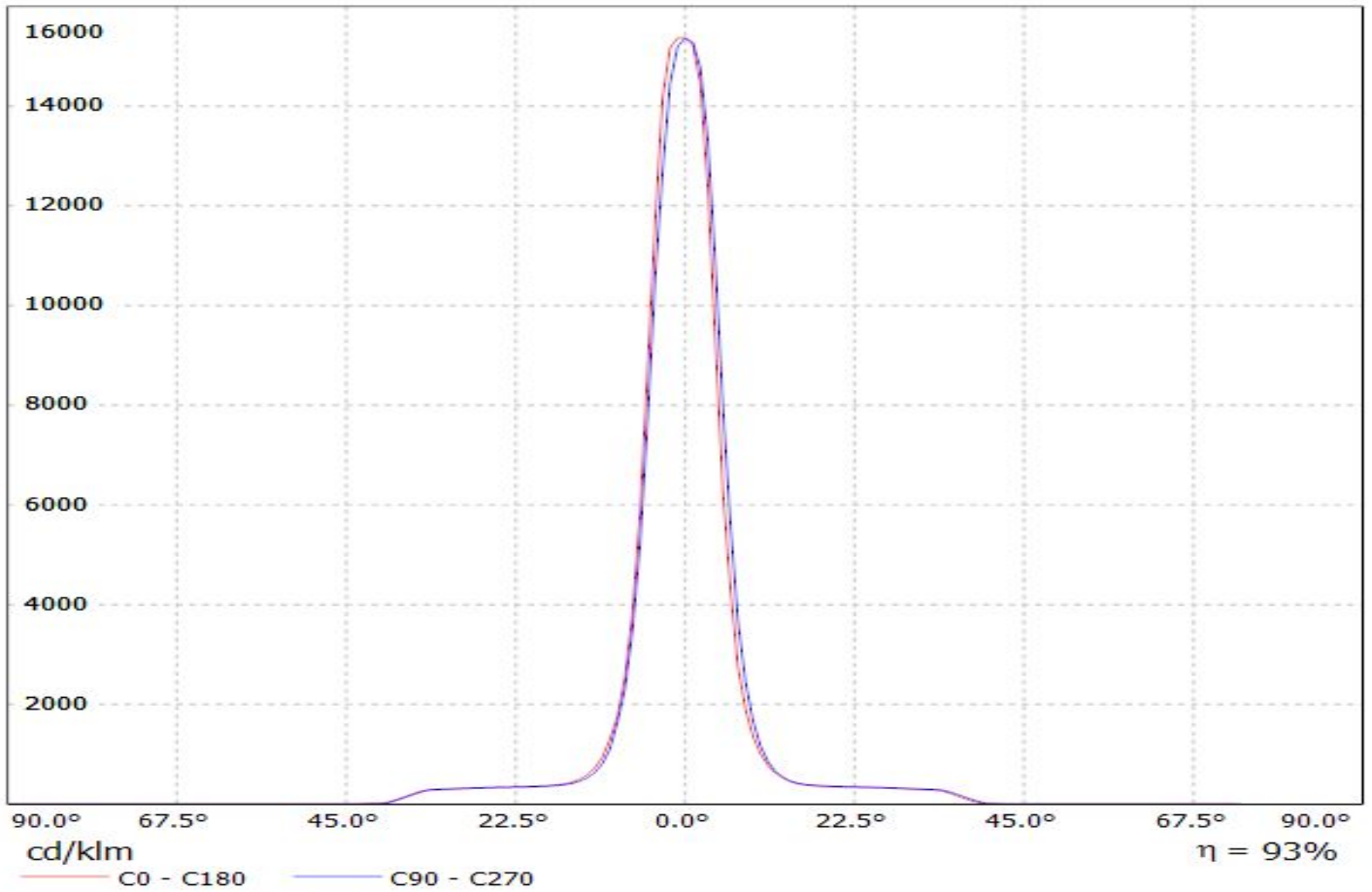


Luminaire: LEDiL Oy F13662_ANGELA-S-B_(MegaZenigata_GW6)
Lamps: 1 x Sharp_MegaZenigata_GW6_(GW6DME30NFC)
_1266.19lm@250mA_CCT=3038K_P=11.2151W_I=250.6mA

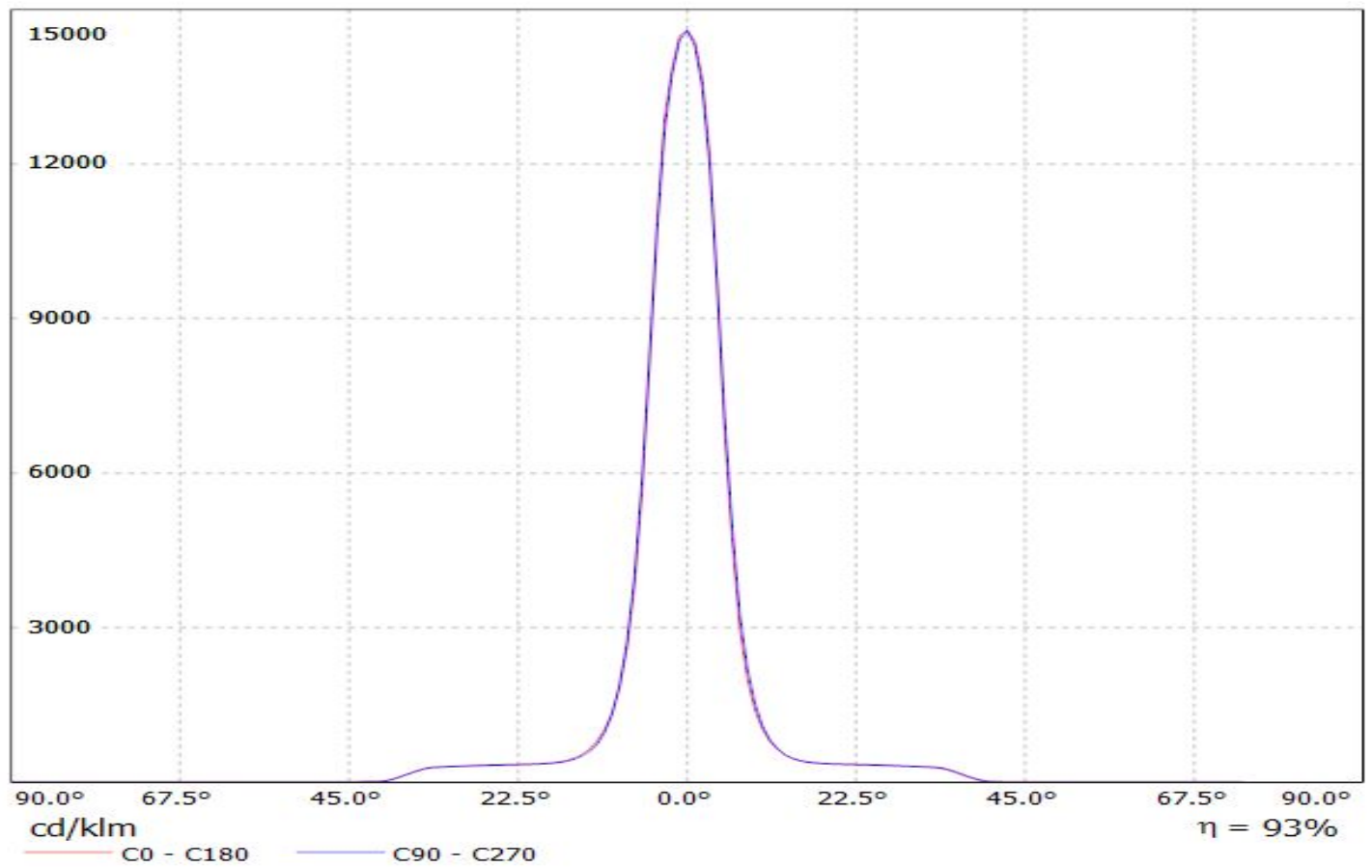


Luminaire: LEDiL Oy F13662_ANGELA-S-B_(CLU034)

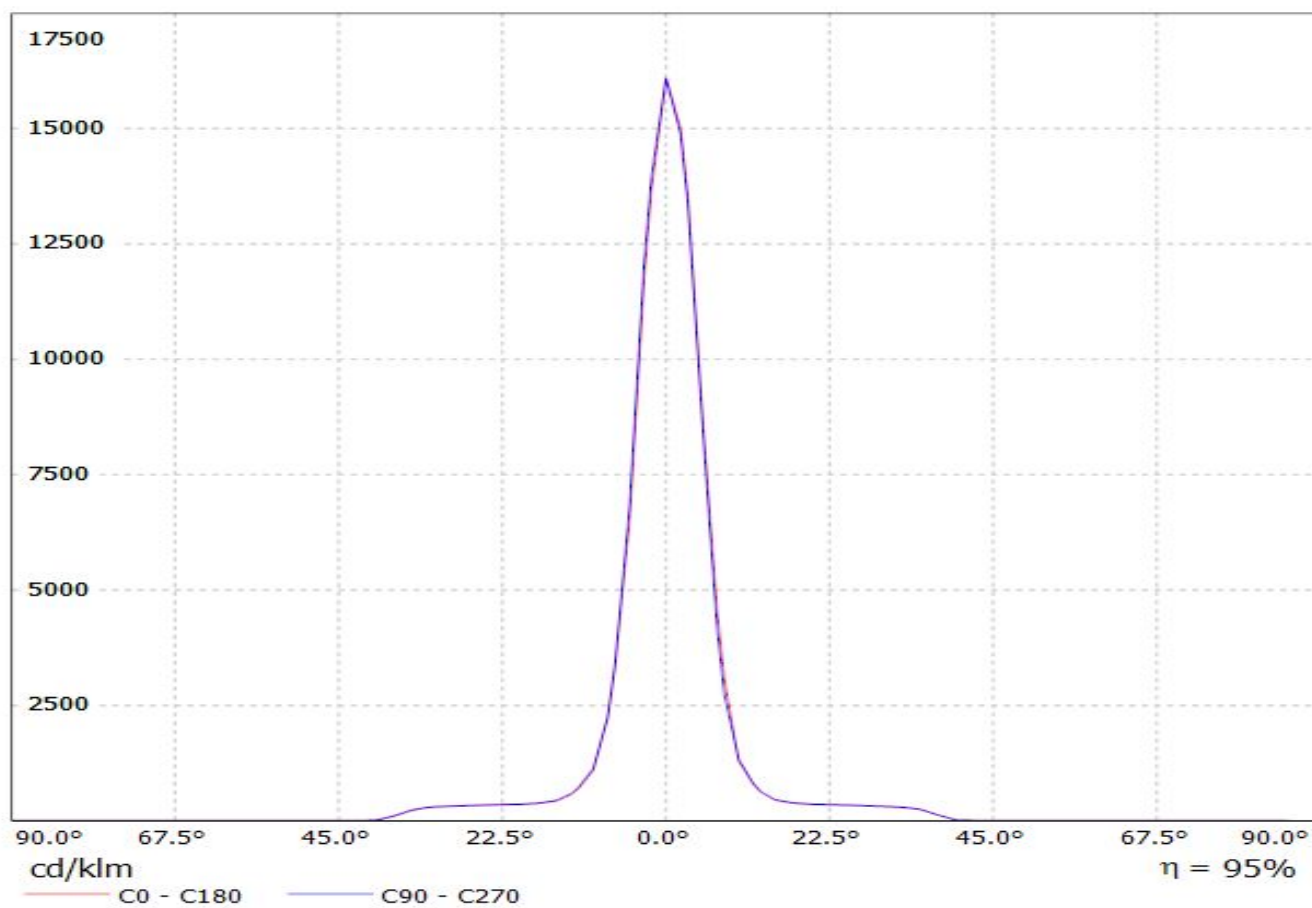
Lamps: 1 x Citizen_CLU034_(CLU034-1205B8-303M1A2)_1159.11lm@250mA_P=8.46586W_I=249.9mA



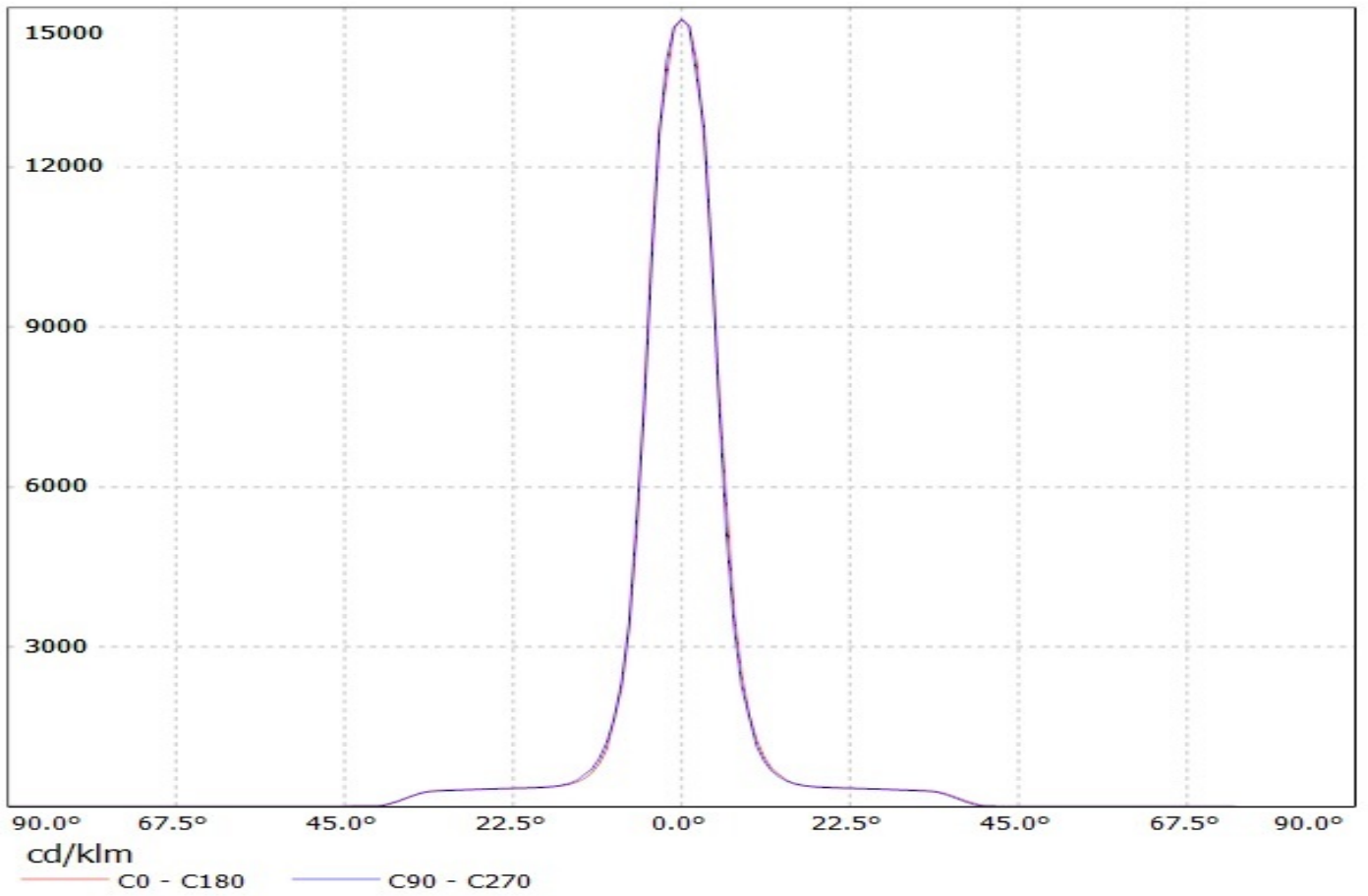
Luminaire: LEDiL Oy F13662_ANGELA-S-B_(STARK_SLE_G3_LES17)
Lamps: 1 x TRIDONIC_STARK_SLE_G3_LES17_(STARK-SLE-PURE_G3-17-2000-840-CLA)
_1030.26lm@250mA_CCT=2000K_P=8.34707W_I=249.8mA



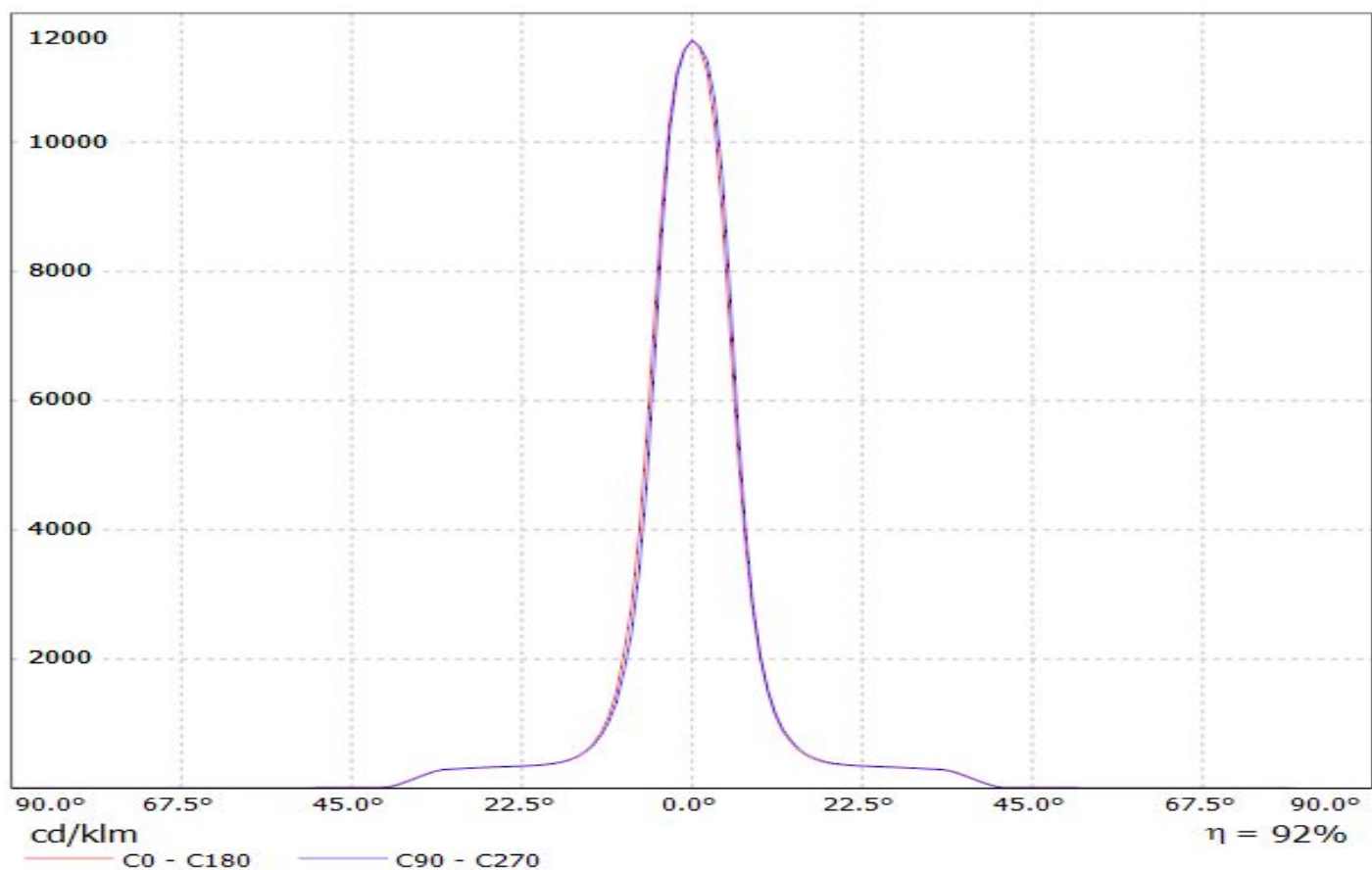
Luminaire: LEDiL Oy F13662_ANGELA-S-B_(MZ) Eff.94.0%
Lamps: 1 x Sharp_Mega_Zenigata_1226.07lm@250mA_P=11.1573W_I=249.8mA



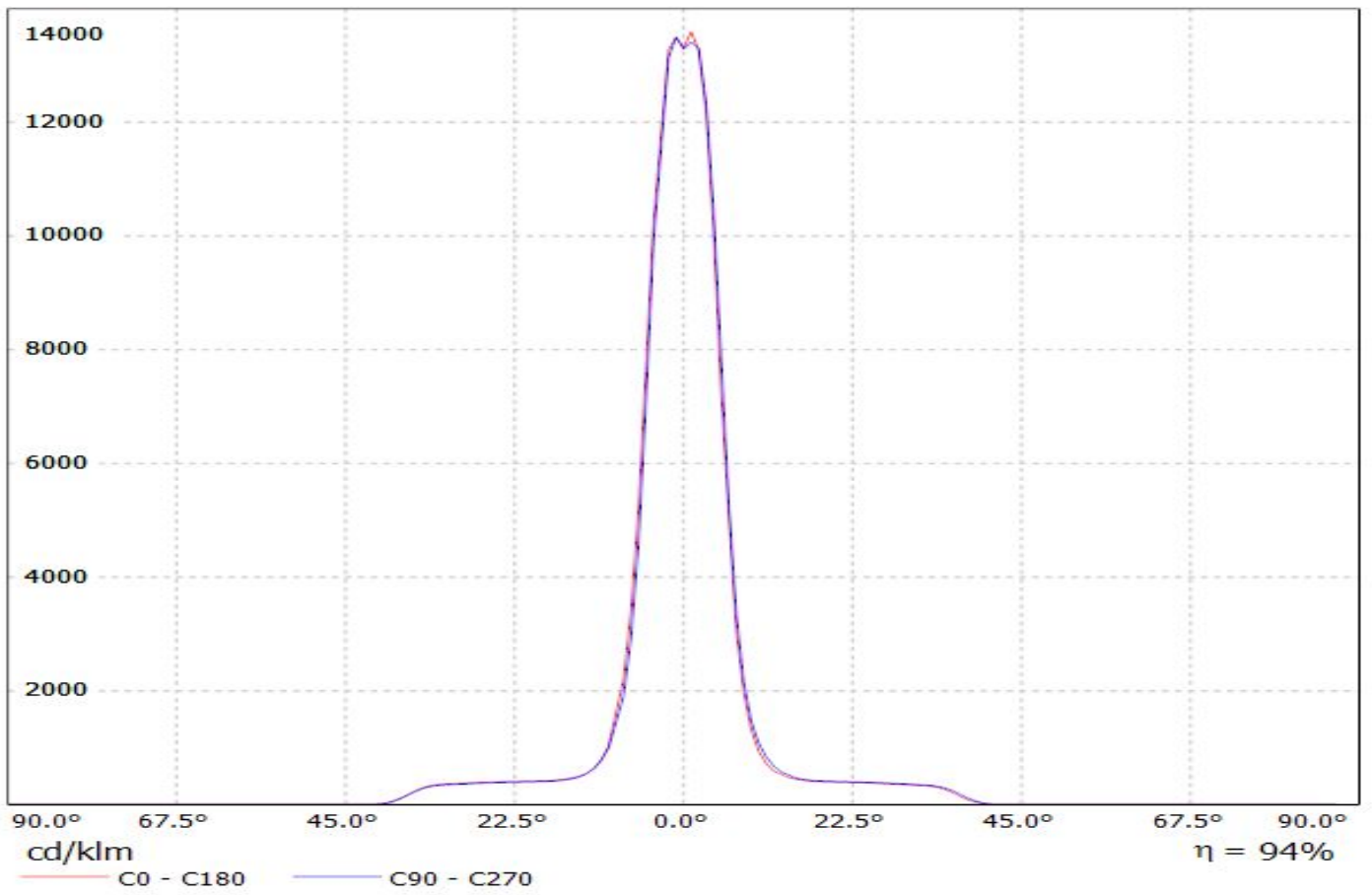
Luminaire: LEDiL Oy F13662_ANGELA-S-B (Luxeon_CoB_1208)
Lamps: 1 x Luxeon_CoB_1208_1045.92lm@250mA_P=8.25314W_I=249.8mA



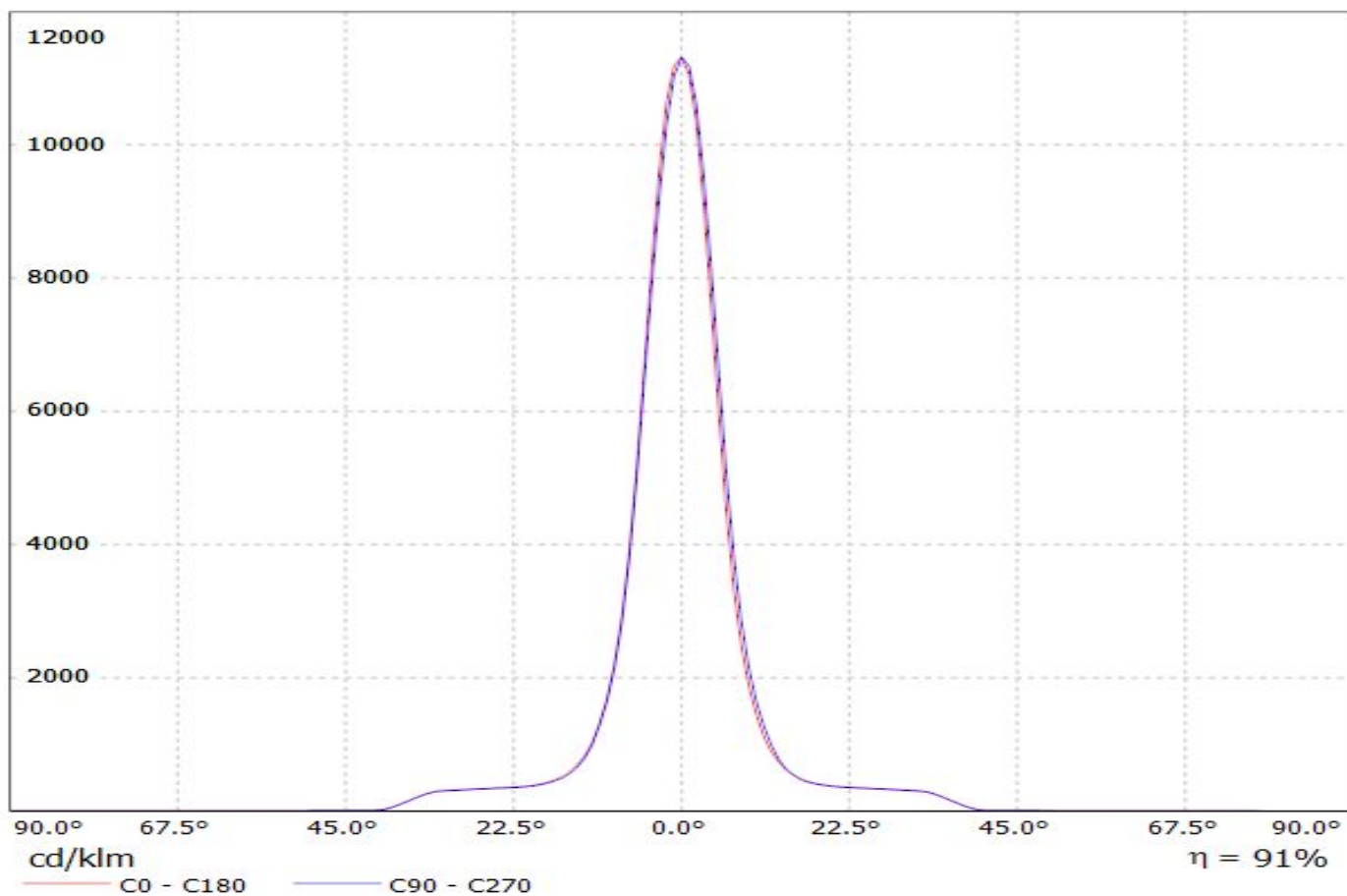
Luminaire: LEDiL Oy F13662_ANGELA-S-B_(CXA2590)
Lamps: 1 x CREE_CXA2590_(CXA2590-30F-Z4-RPH-00001)
_837.275lm@100mA_CCT=3000K_P=6.36316W_I=100.1mA



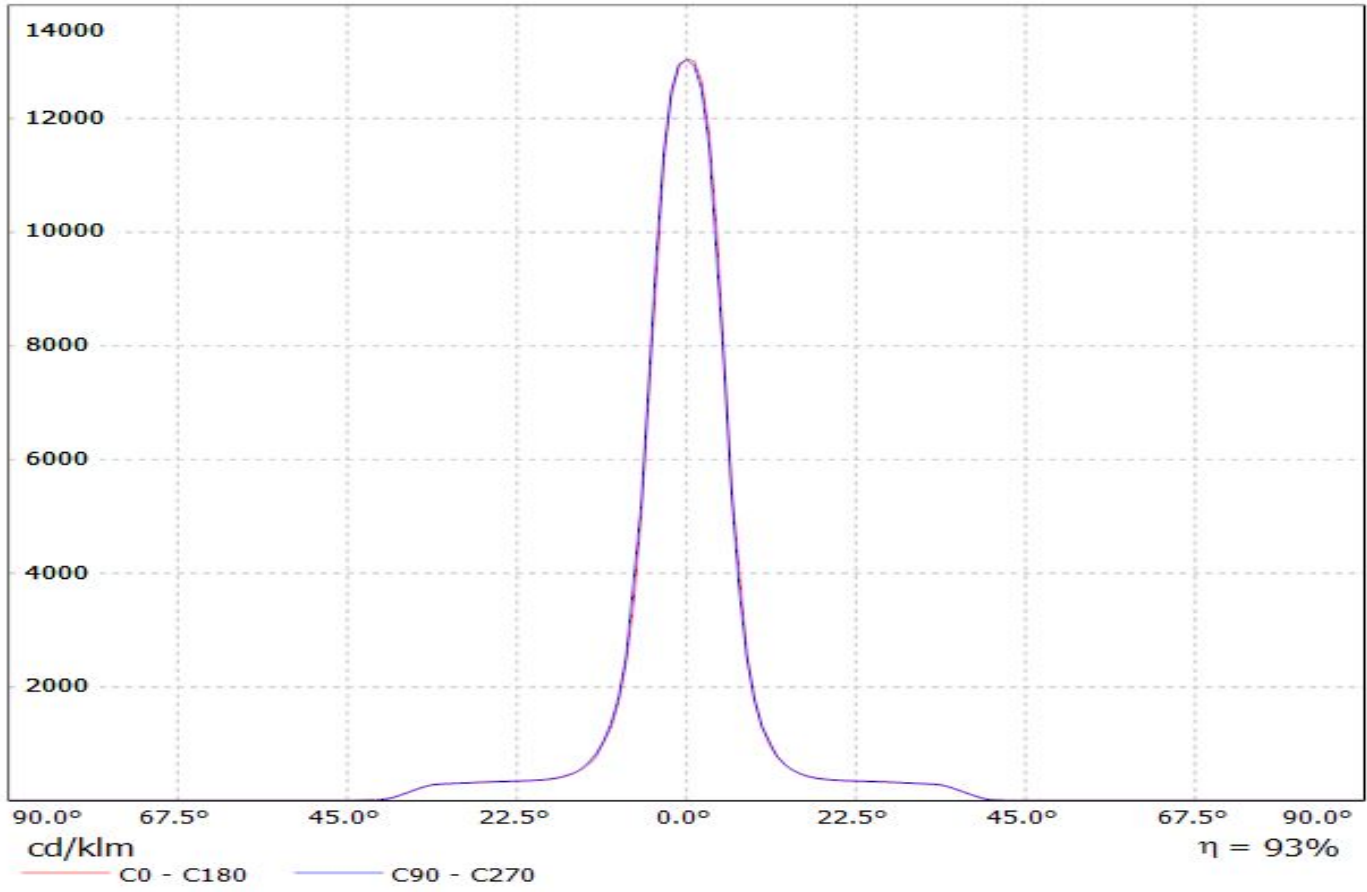
Luminaire: LEDiL Oy F13662_ANGELA-S-B_(K16) Eff.94.0%
Lamps: 1 x Luxeon_K16_1252.4lm@250mA_P=10.8991W_U=249.9mA



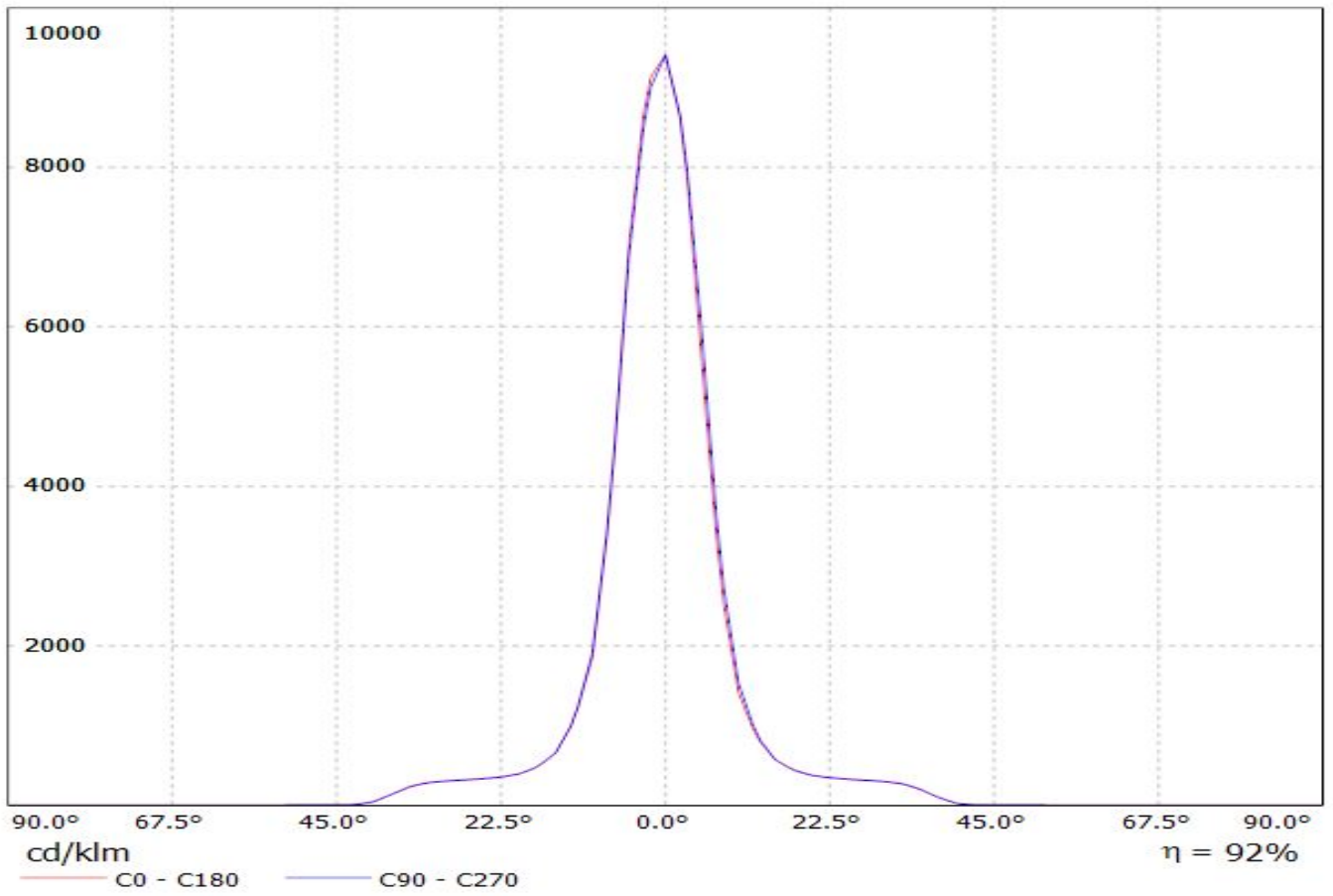
Luminaire: LEDiL Oy F13662_ANGELA-S-B_(SLE GEN4 LES19)
Lamps: 1 x SLE GEN4 LES19_1226.28lm@250mA_P=8.21367W_I=0.2498A



Luminaire: LEDiL Oy F13662_ANGELA-S-B_(Soleriq S19) Eff.93.4%
Lamps: 1 x OSRAM_SOLERIQ_S19_(GW_KAHJB1.EM)
_1445.44lm@250mA_CCT=3000K_P=10.558W_I=249.8mA

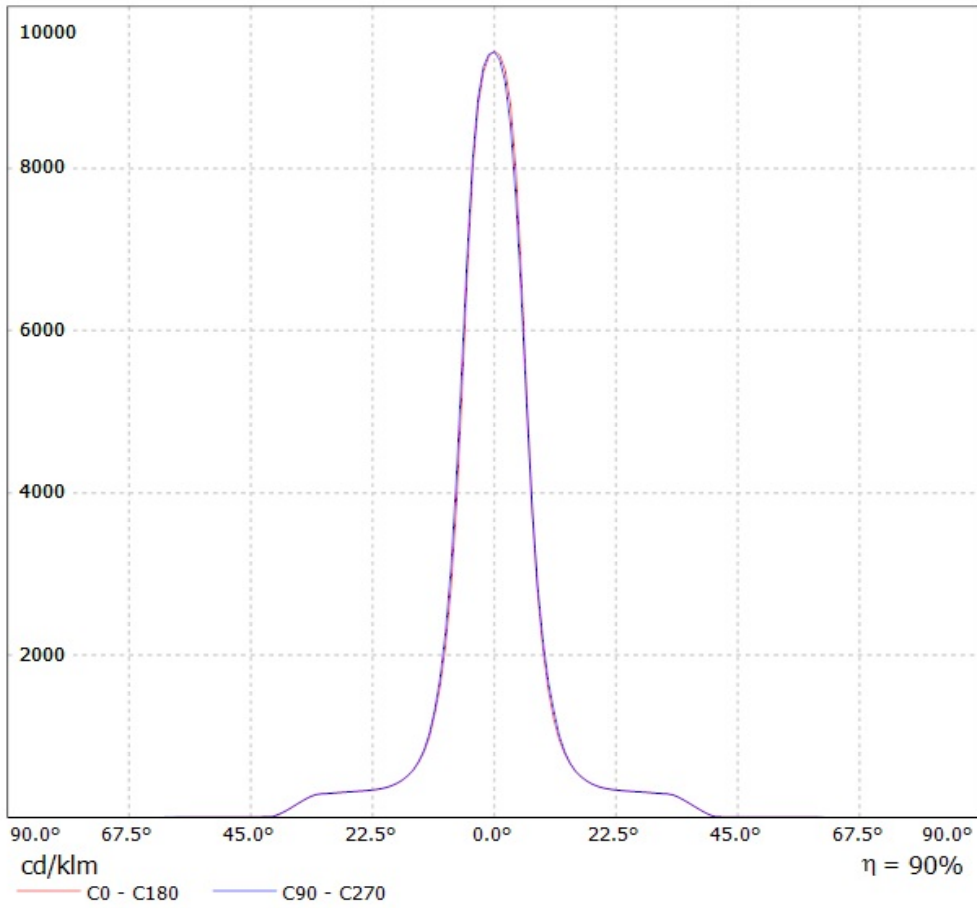


Luminaire: LEDiL Oy F13662_ANGELA-S-B_(E30) Eff.91.2%
Lamps: 1 x Osram_Solericq_E30_1364.86lm@250mA_P=10.2445W_I=249.8mA



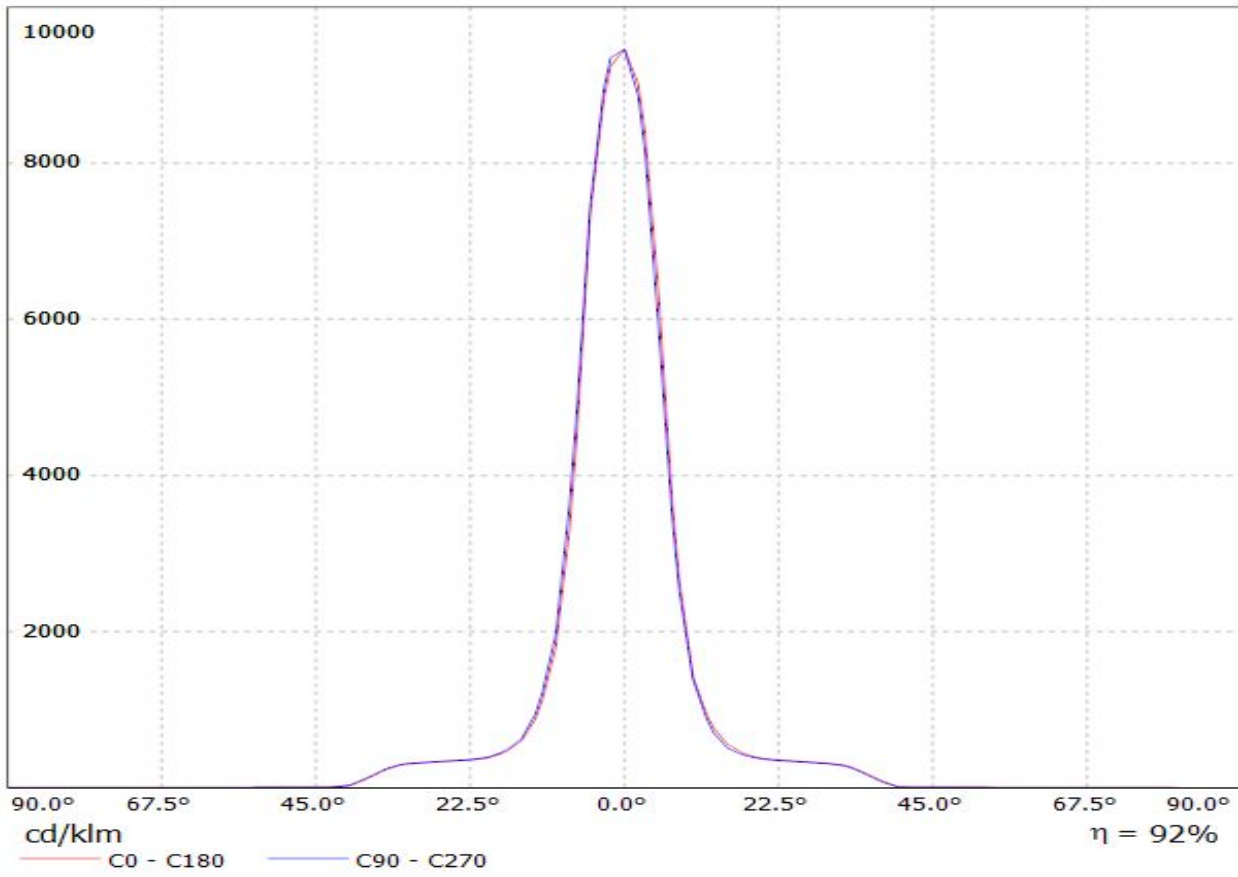
Luminaire: LEDiL Oy F13662_ANGELA-S-B_(Luxeon_CoB_1211)_(BJB2030)

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

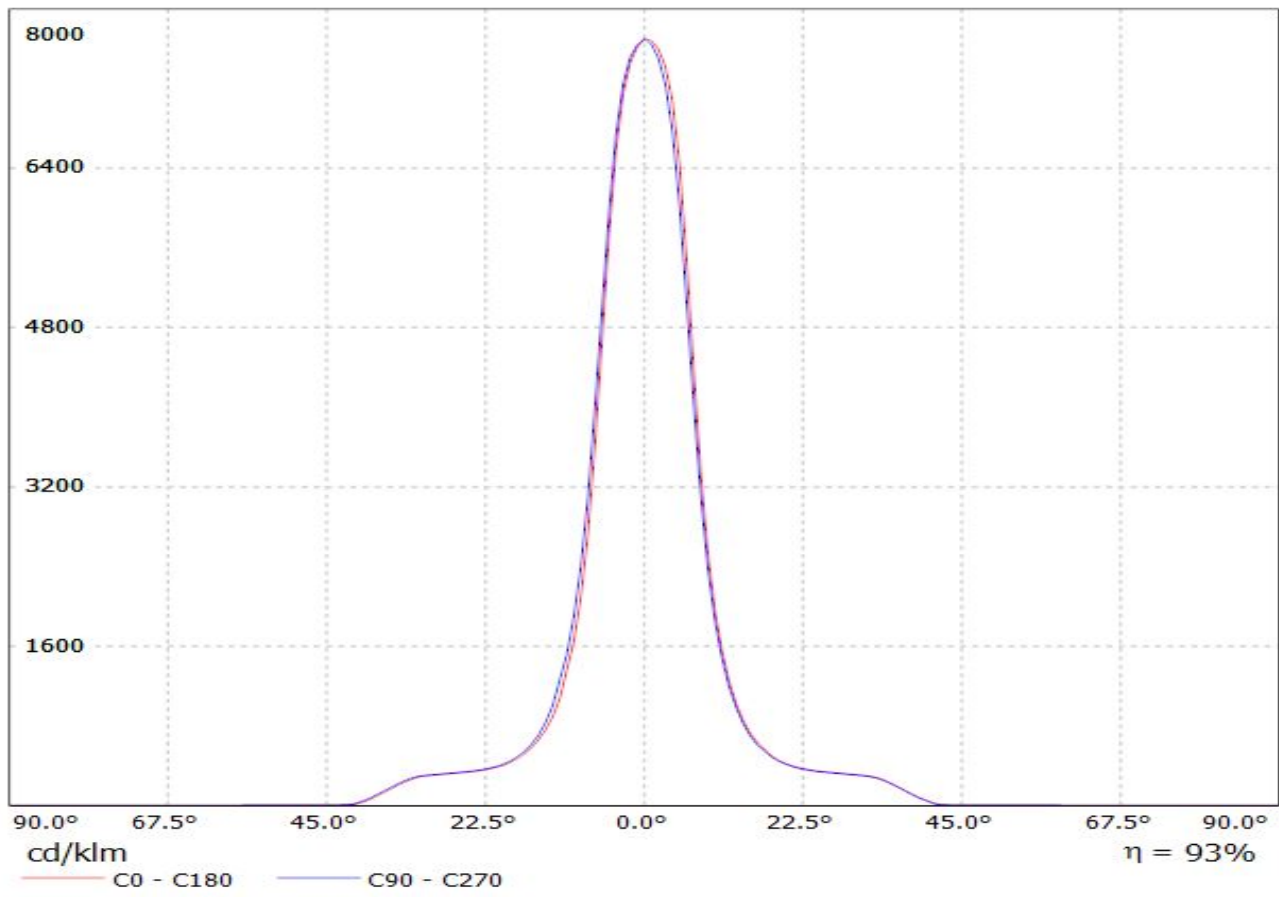


Luminaire: LEDiL Oy F13662_ANGELA-S-B_(Luxeon_CoB_1211)

Lamps: 1 x LUXEON_COB_1211_(LHC1-2790-1211)_923.583lm@250mA_CCT=2700K_P=8.00909W_I=249.8mA

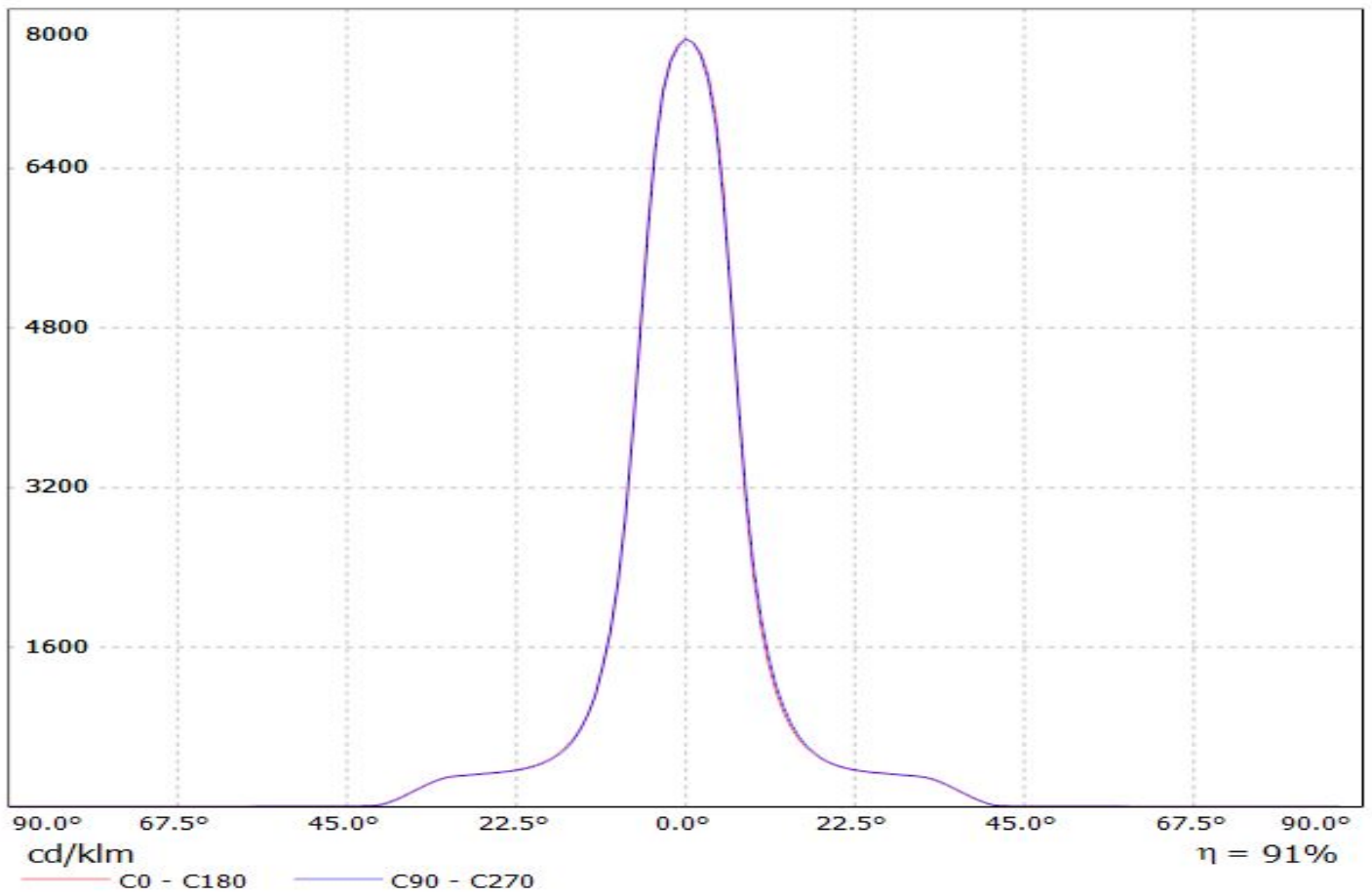


Luminaire: LEDiL Oy F13662_ANGELA-S-B_(ZC-40) Eff.93.4%
Lamps: 1 x Seoul ZC-40_1183.63lm@250mA_P=8.42195W_I=249.9mA



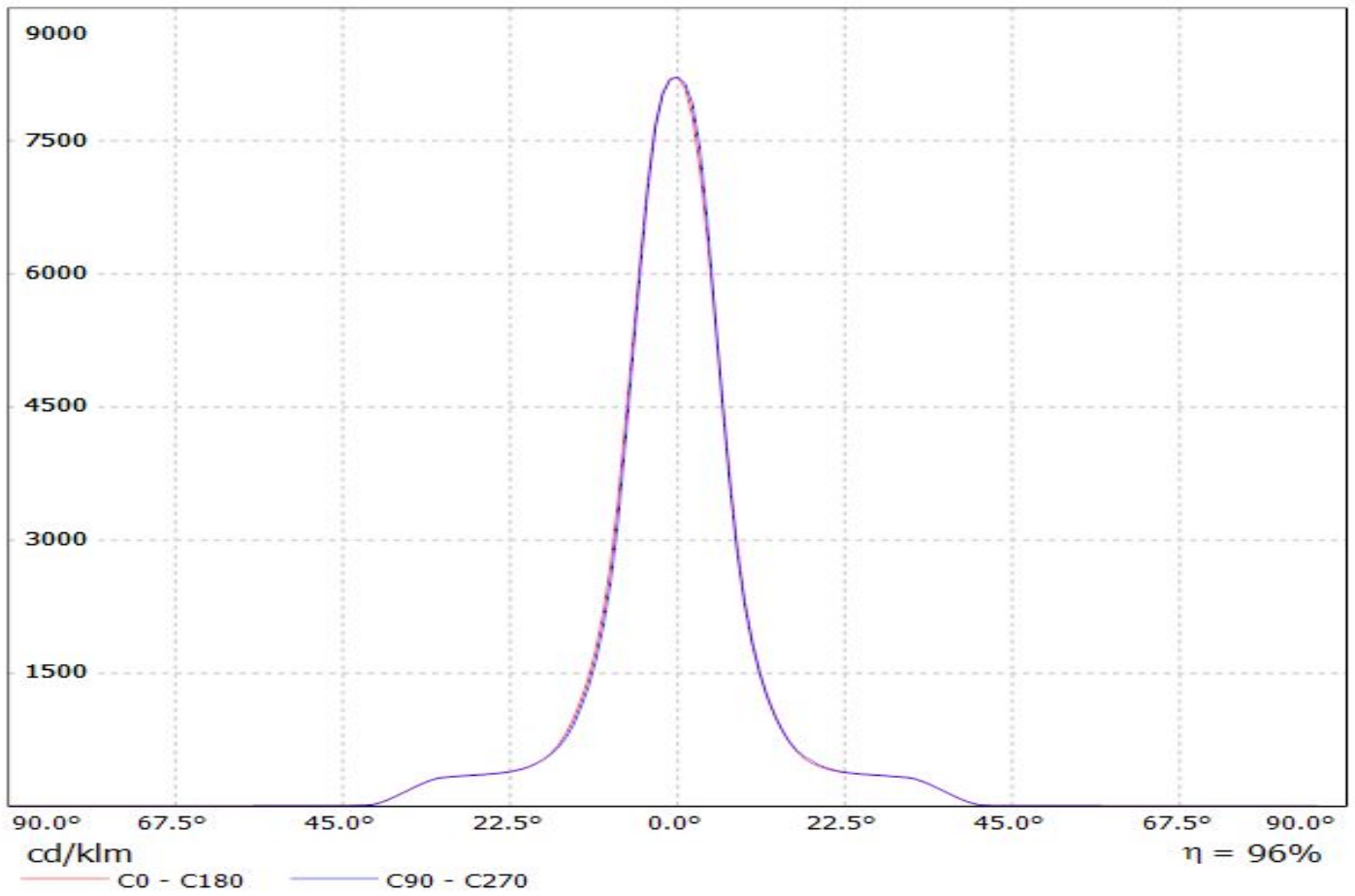
Luminaire: LEDiL Oy F13662_ANGELA-S-B_(ZC40)

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



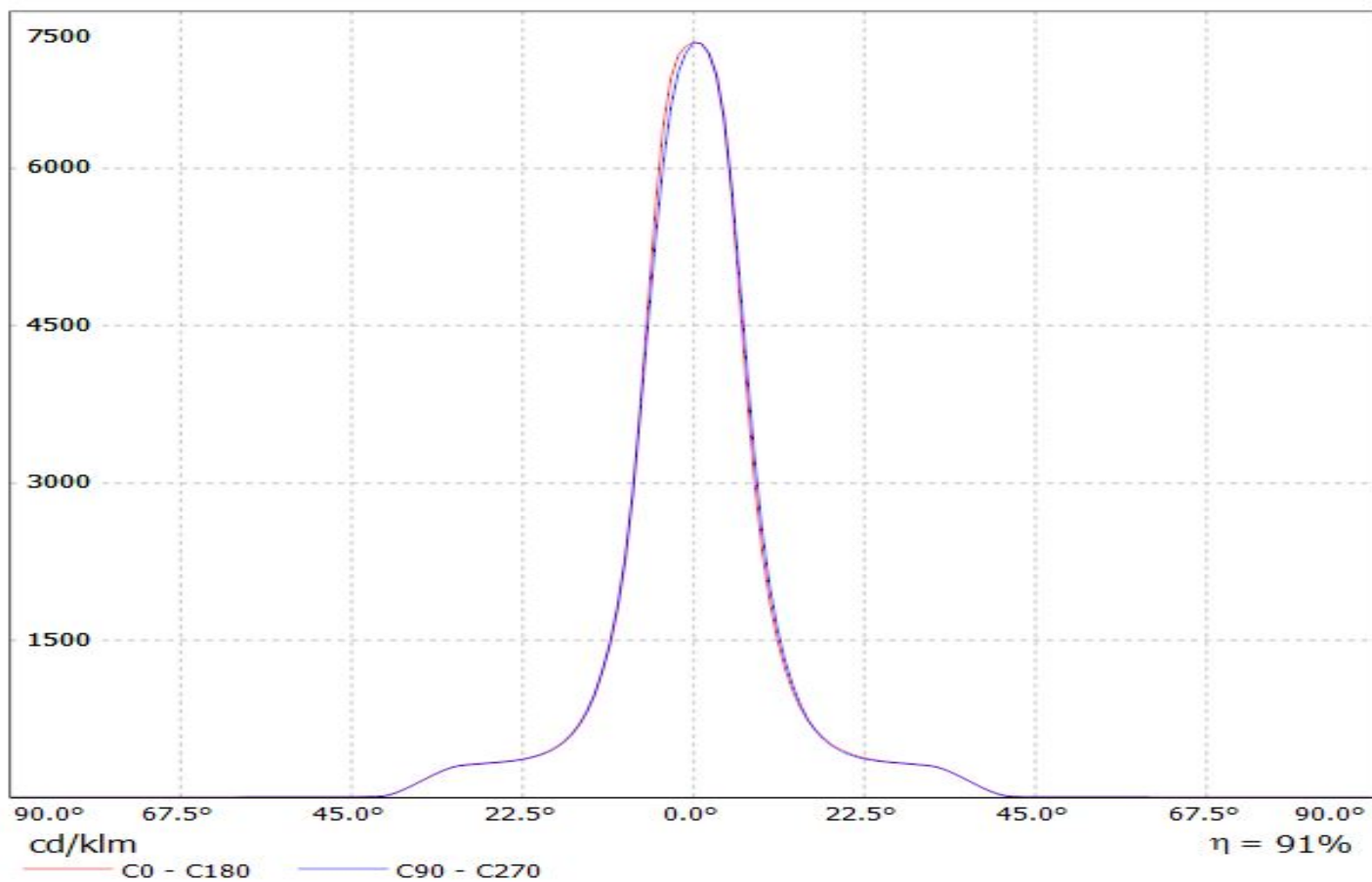
Luminaire: LEDiL Oy F13662_ANGELA-S-B (SLE_G4_LES23)

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



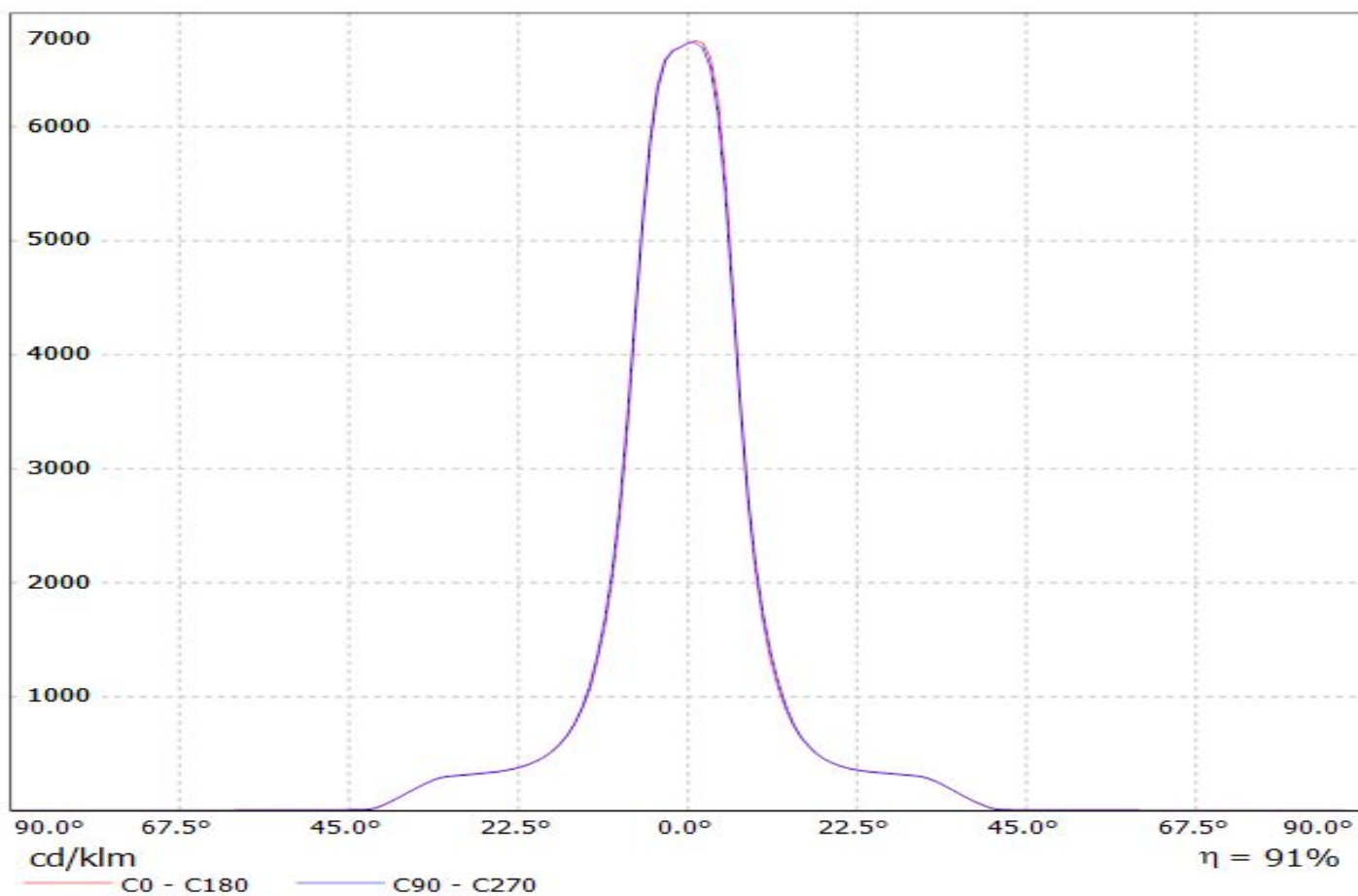
Luminaire: LEDiL Oy F13662_ANGELA-S-B_(CXA30)

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



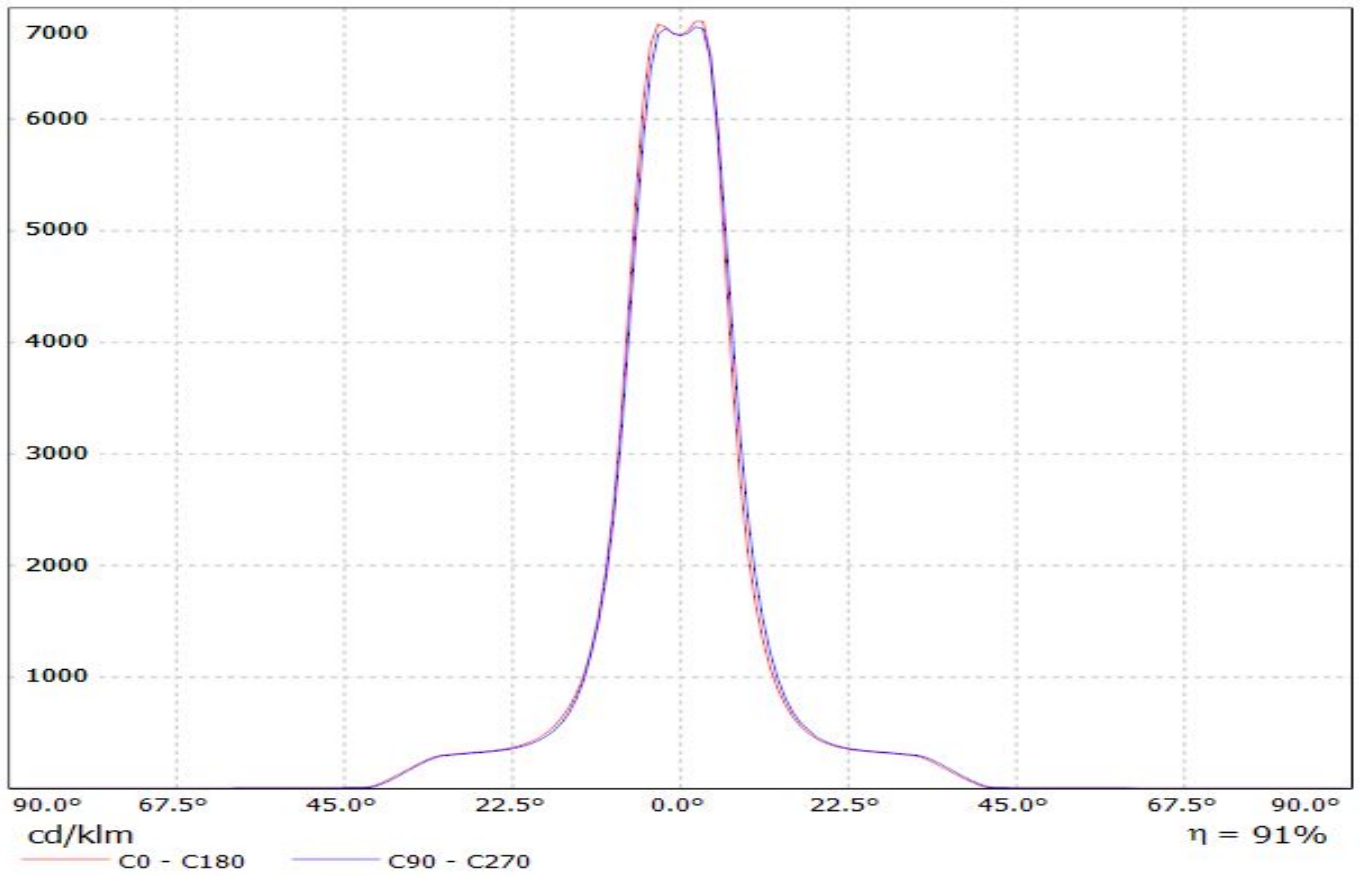
Luminaire: LEDiL Oy F13662_ANGELA-S-B (COB_40W)

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

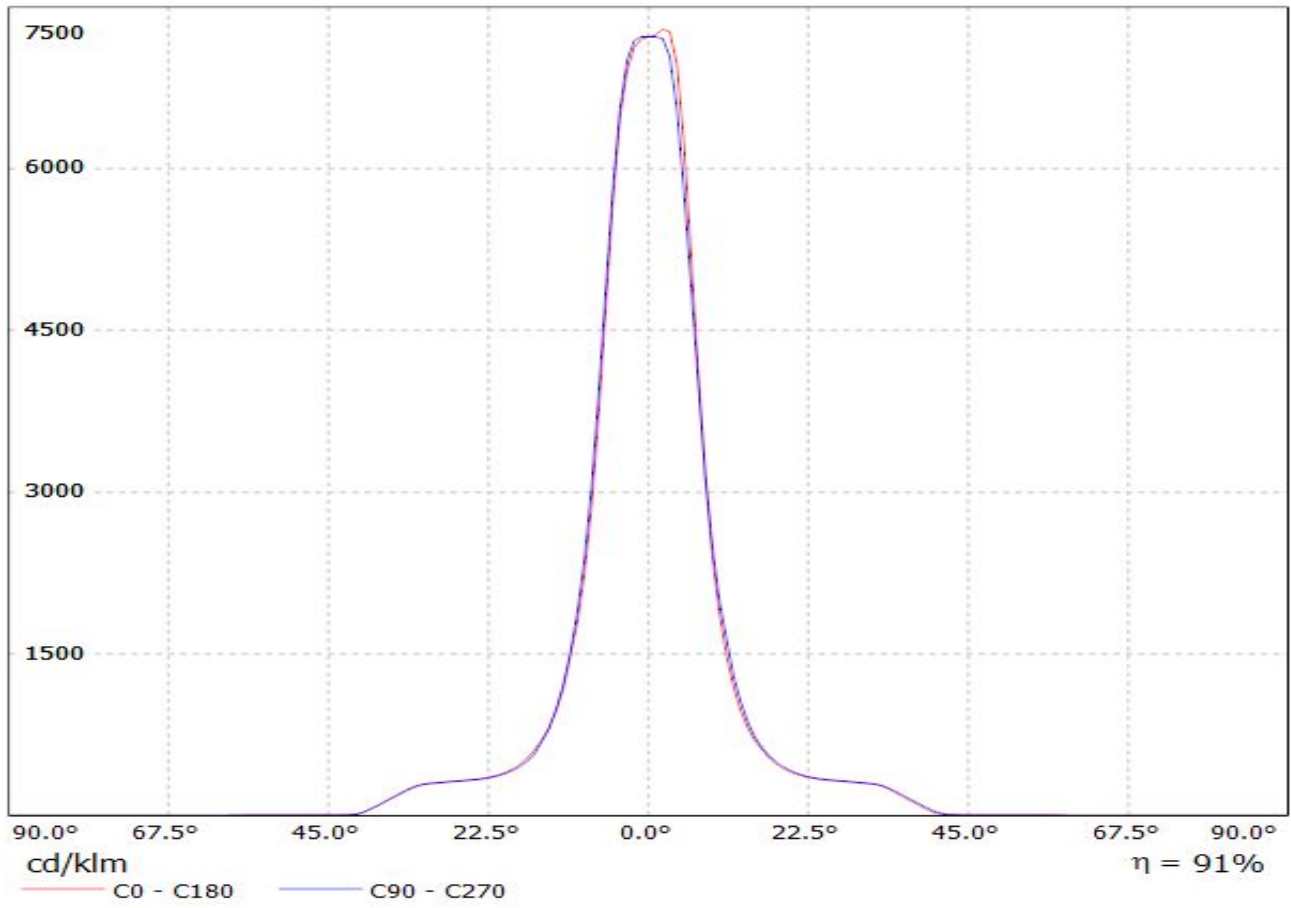


Luminaire: LEDiL Oy F13662_ANGELA-S-B_(CLU044)

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

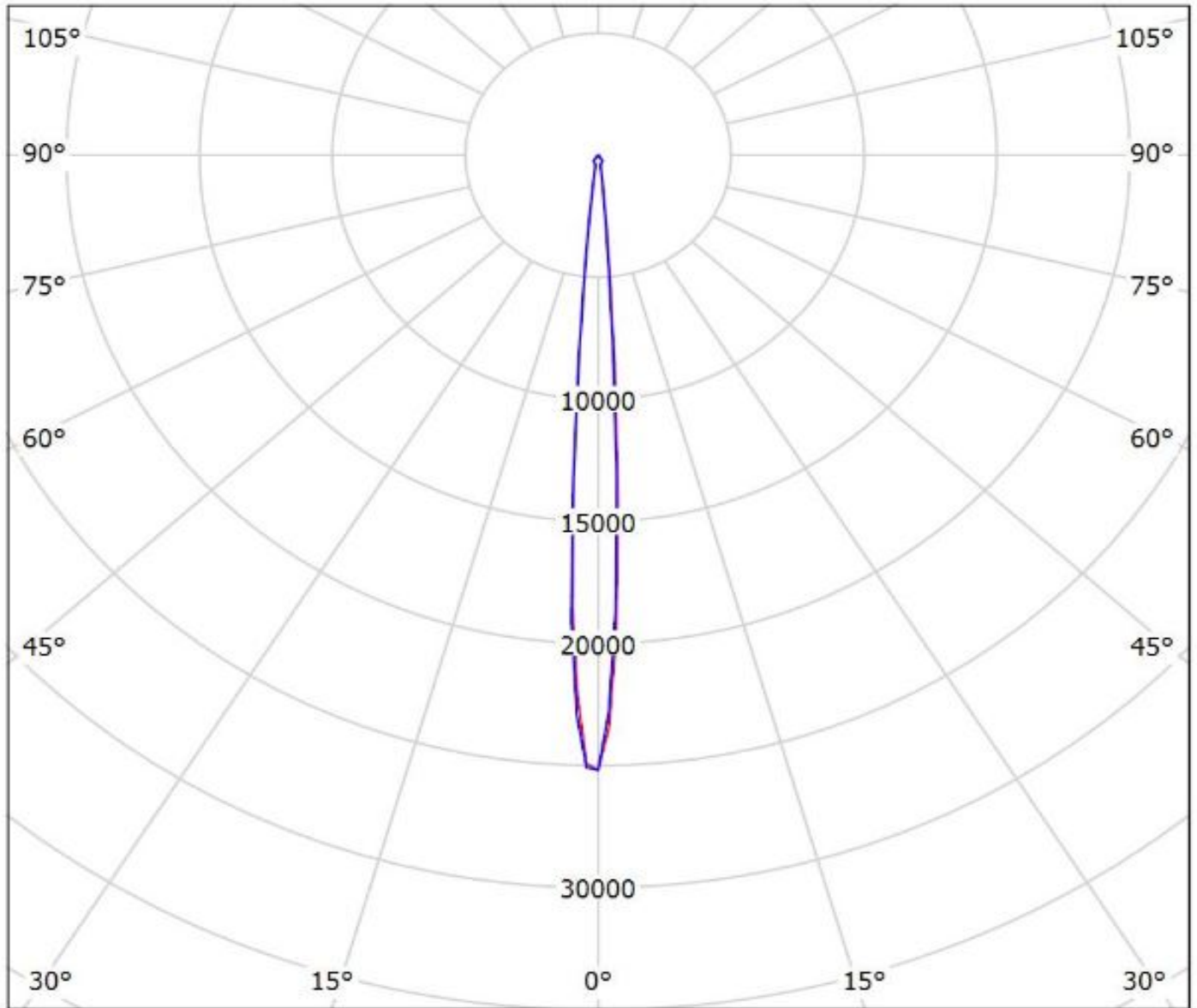


Luminaire: LEDiL Oy F13662_ANGELA-S-B_(CLL040) Eff.91.6%
Lamps: 1 x Citizen_CLL040_1011.32lm@250mA_P=8.24545W_I=249.9mA



Luminaire: Ledil F13662_ANGELA-S-B_(CITIZEN_CLU720)

Lamps: 1 x CITIZEN_CLU720_(BJB: 47.319.2020)_1316.23lm@250mA_CCT=2700K_P=8.35W_I=0.25A

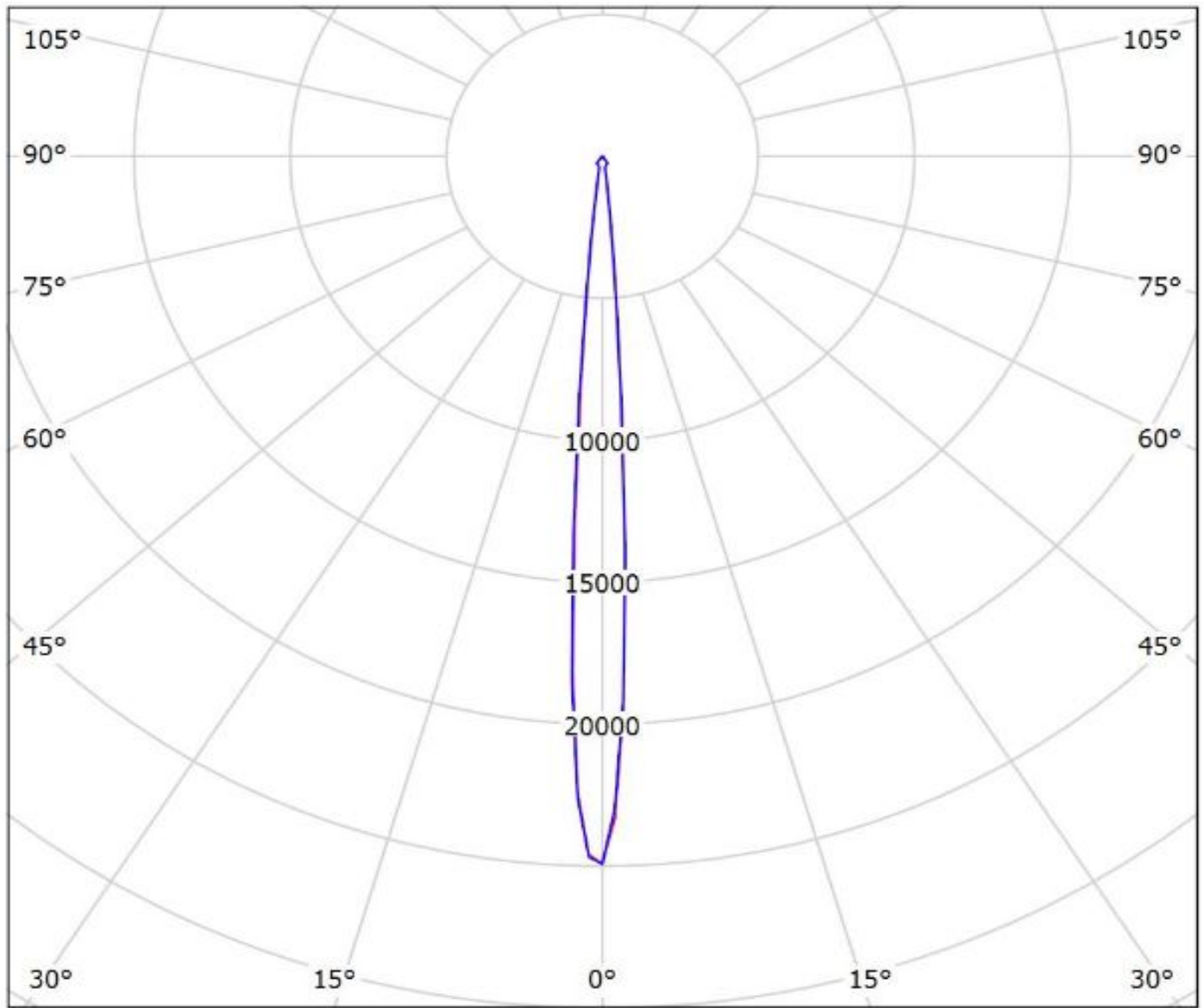


cd/klm

— C0 - C180 — C90 - C270

$\eta = 95\%$

Luminaire: Ledil F13662_ANGELA-S-B_(CITIZEN_CLU720)
Lamps: 1 x CITIZEN_CLU720_(CLU720-1206B8-273M2)
_1320.42lm@250mA_CCT=2700K_P=8.35W_I=0.25A



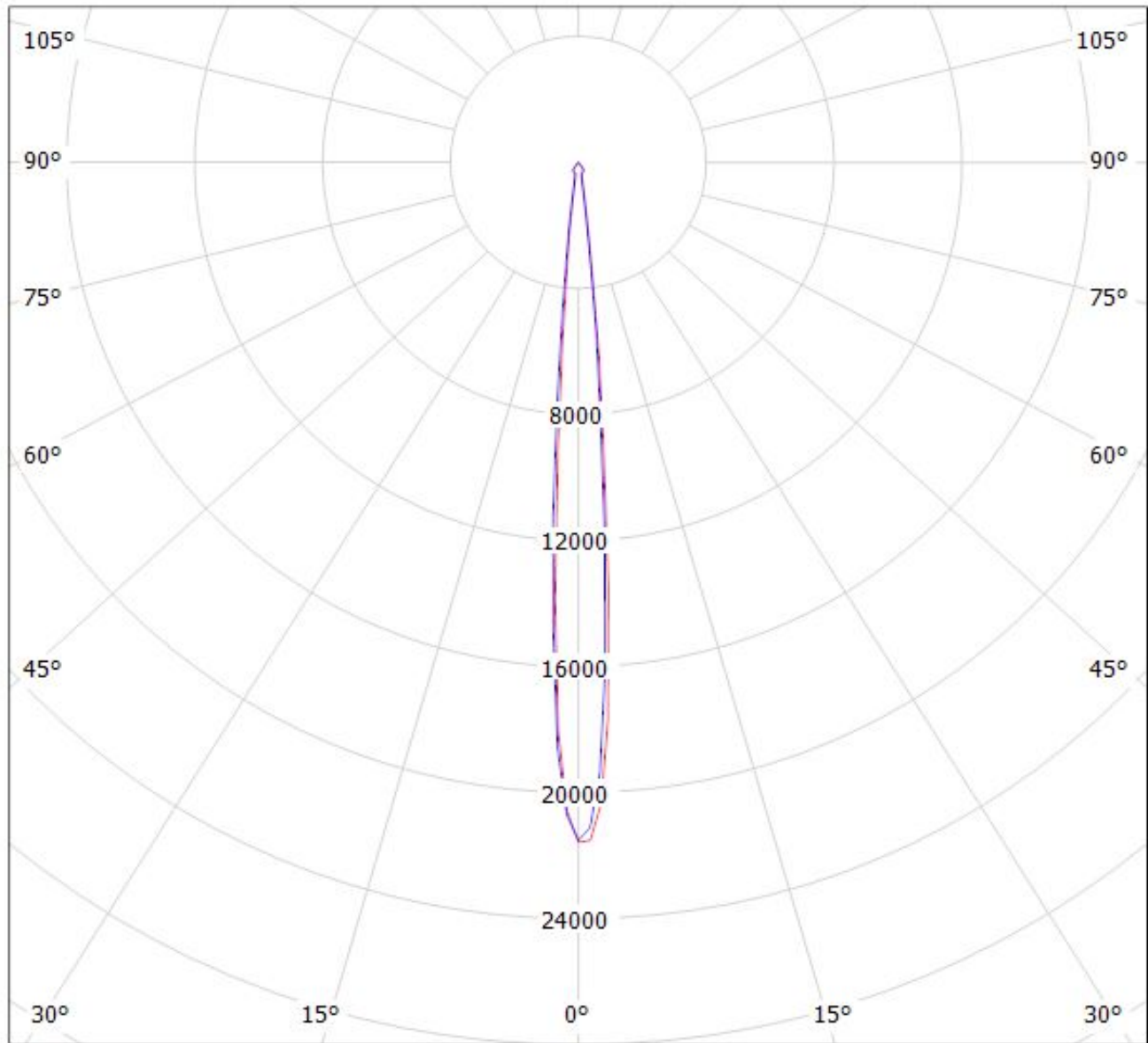
cd/klm

— C0 - C180 — C90 - C270

$\eta = 95\%$

Luminaire: LEDiL Oy F13662_ANGELA-S-B_(S13) Eff.94.0%

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



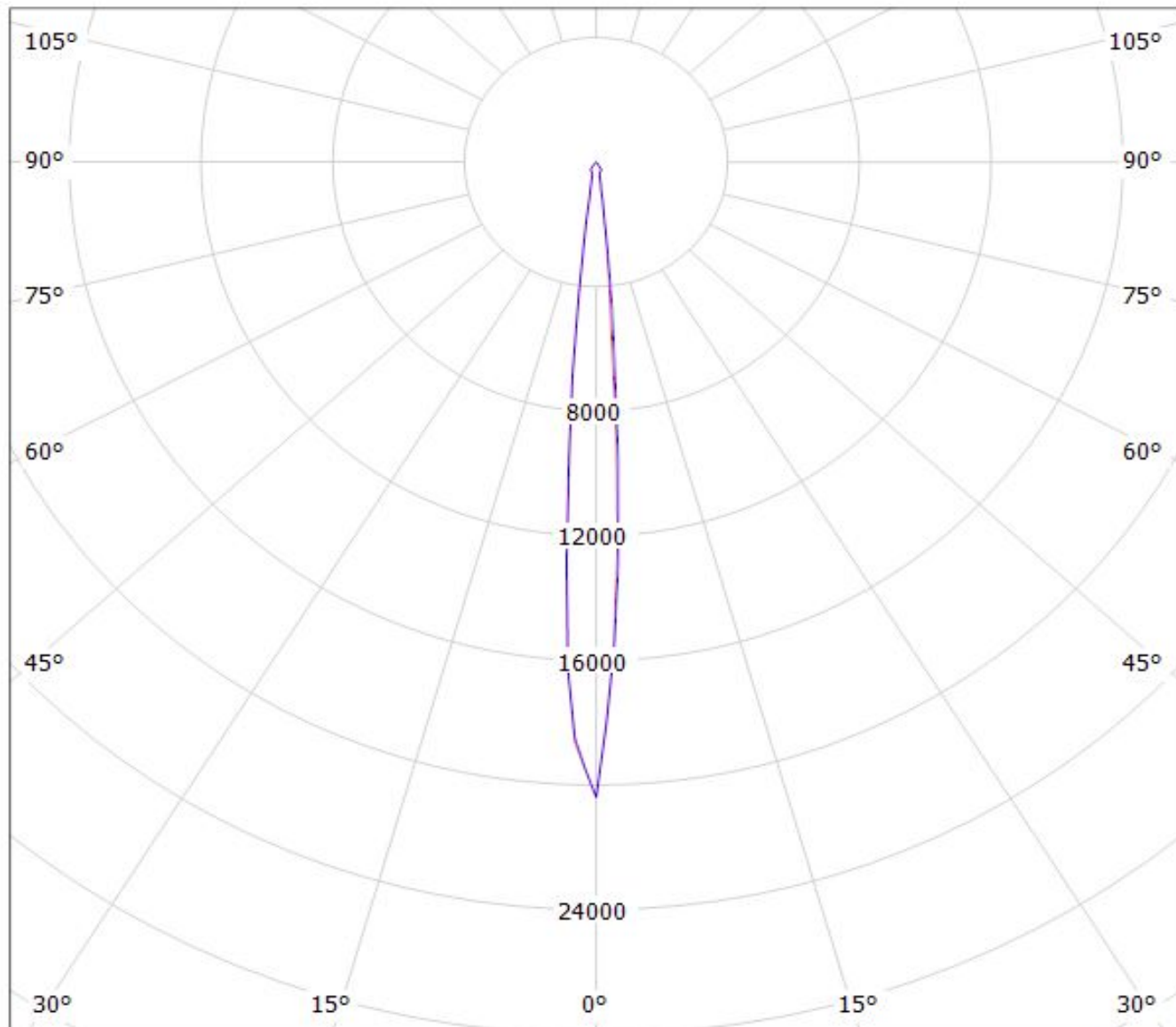
cd/klm

η = 93%

— C0 - C180

— C90 - C270

Luminaire: LEDiL Oy F13662_ANGELA-S-B_(BXRA_ES) Eff.93.7%
Lamps: 1 x Bridgelux_BXRA_ES_287.055lm@250mA_P=4.09486W_I=249.9mA

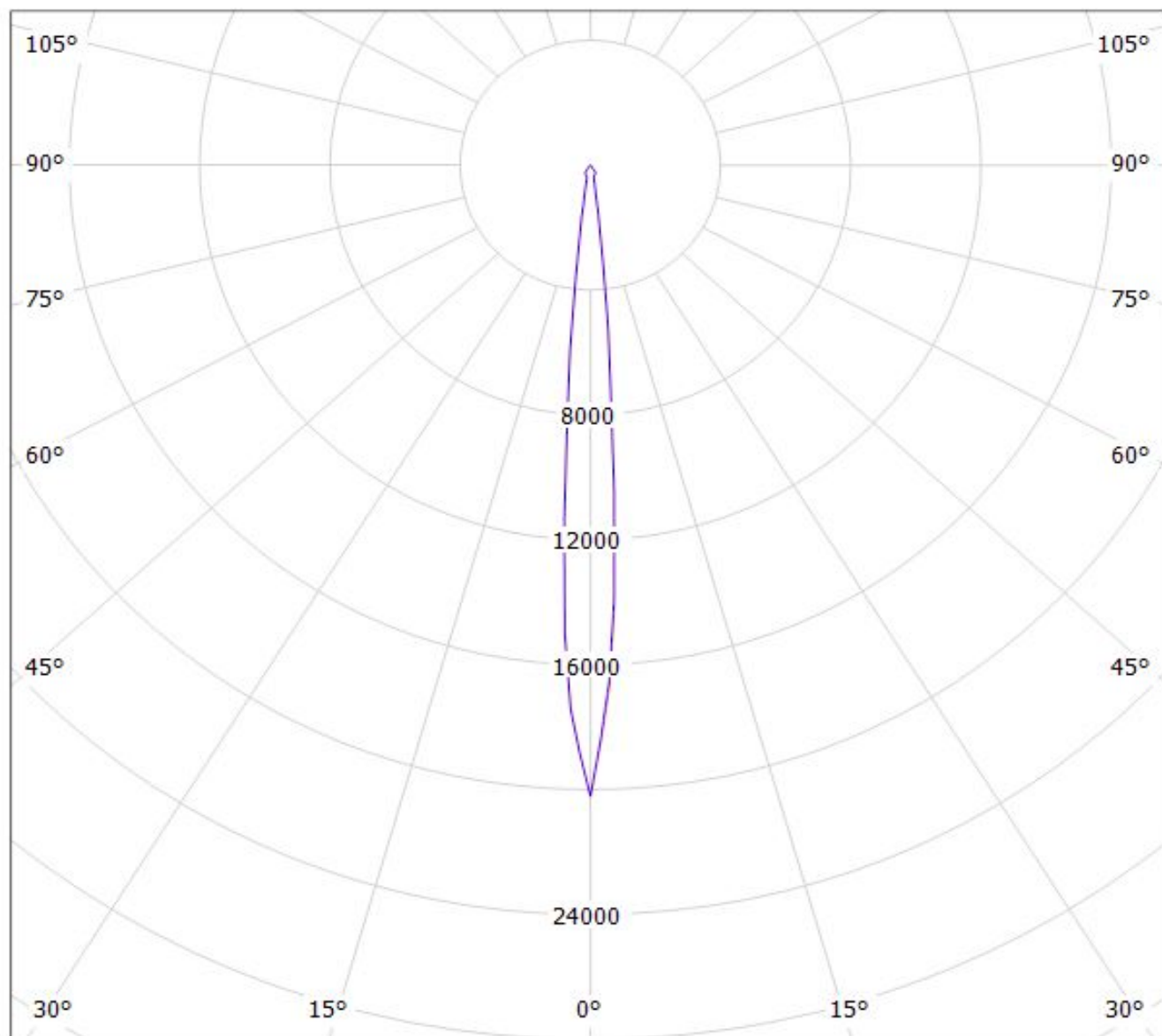


cd/klm

$\eta = 94\%$

— C0 - C180 — C90 - C270

Luminaire: LEDiL Oy F13662_ANGELA-S-B_(COB-10W)
Lamps: 1 x LG_COB-10W_1065.13lm@250mA_P=9.09921W_I=249.8mA



cd/klm

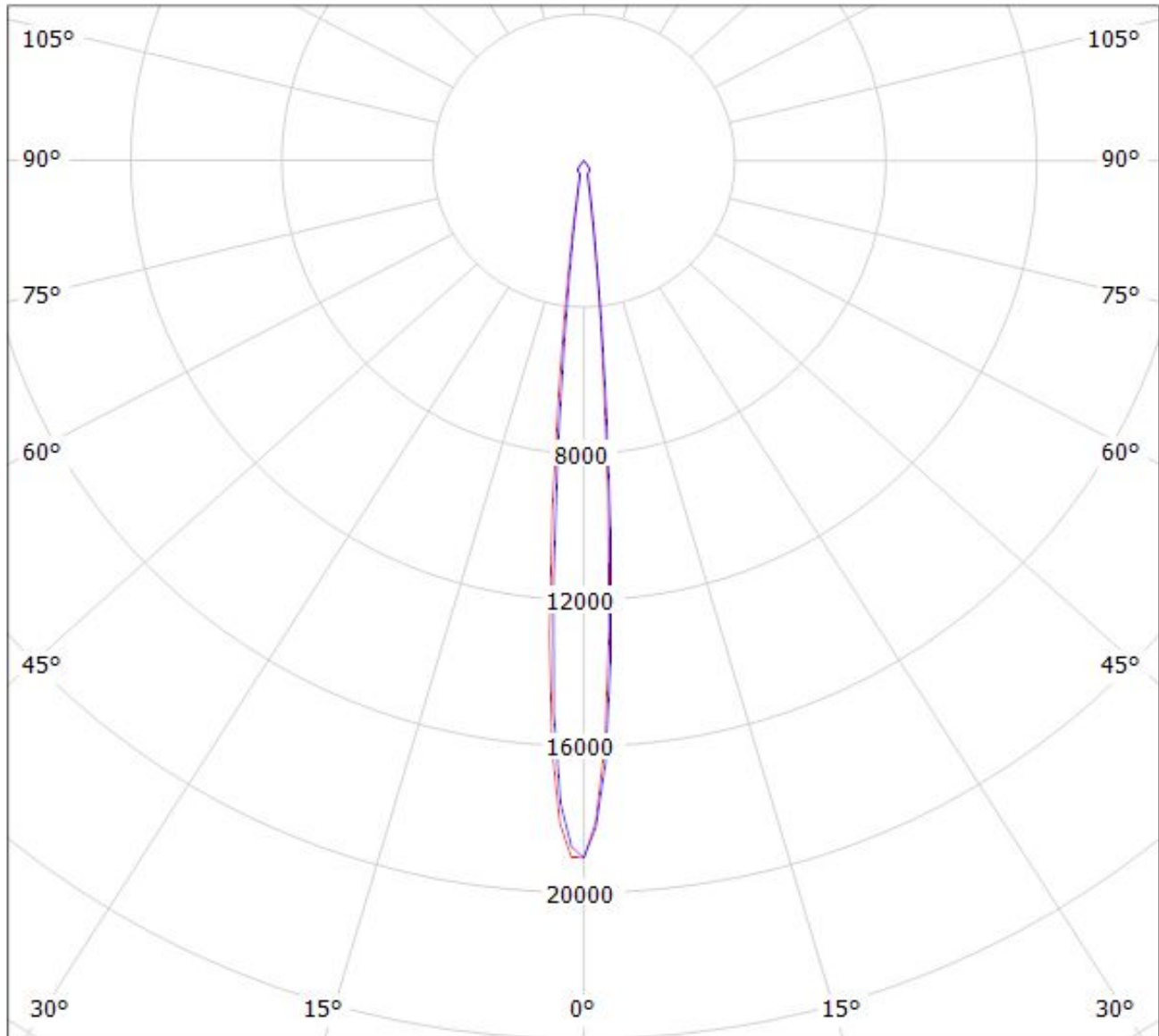
$\eta = 95\%$

— C0 - C180

— C90 - C270

Luminaire: LEDiL Oy F13662_ANGELA-S-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

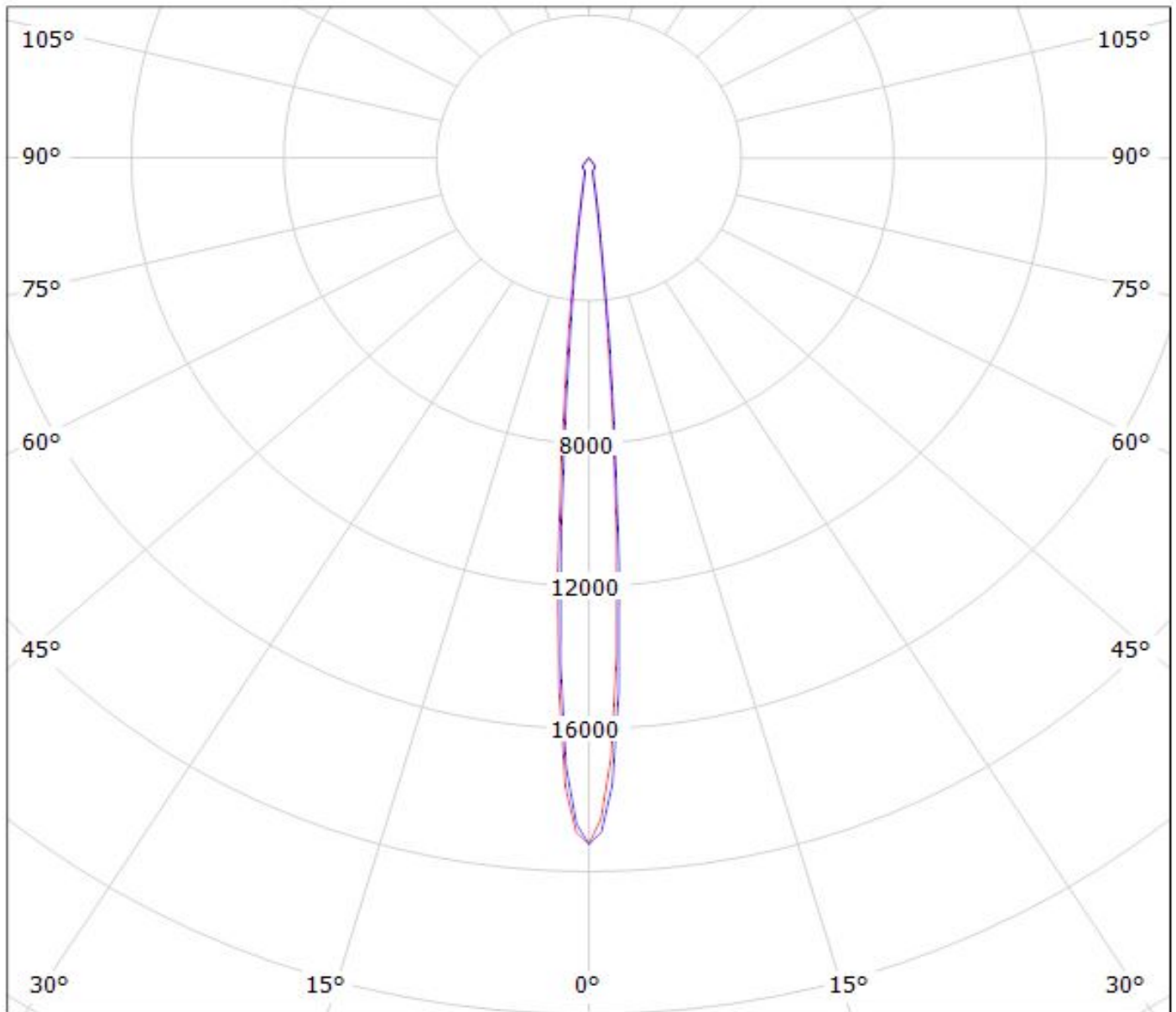
— C0 - C180

— C90 - C270

$\eta = 93\%$

Luminaire: LEDiL Oy F13662_ANGELA-S-B_(LG_COB_10W)

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



cd/klm

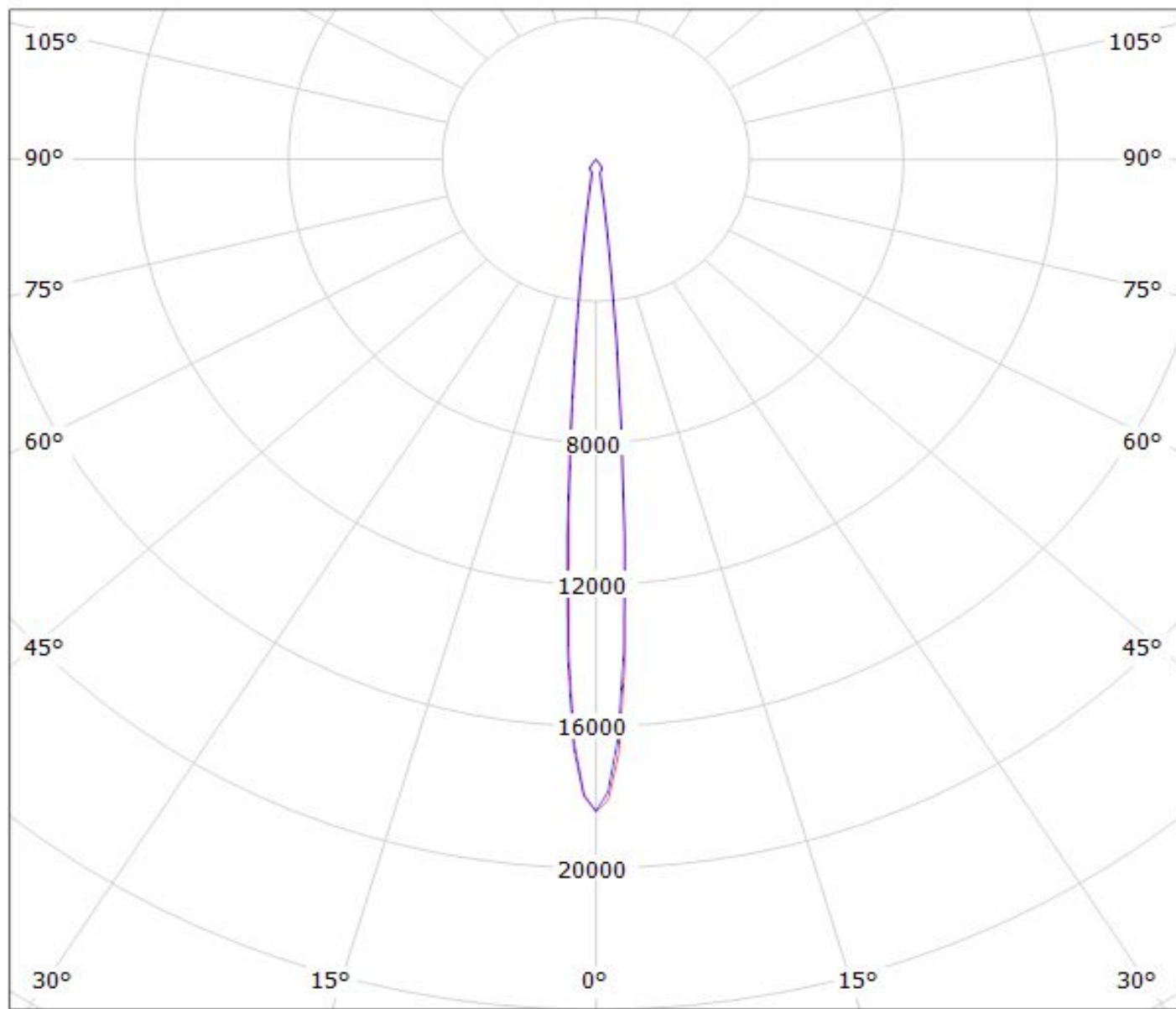
— C0 - C180

— C90 - C270

$\eta = 93\%$

Luminaire: LEDiL Oy F13662_ANGELA-S-B_(ZC12)

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



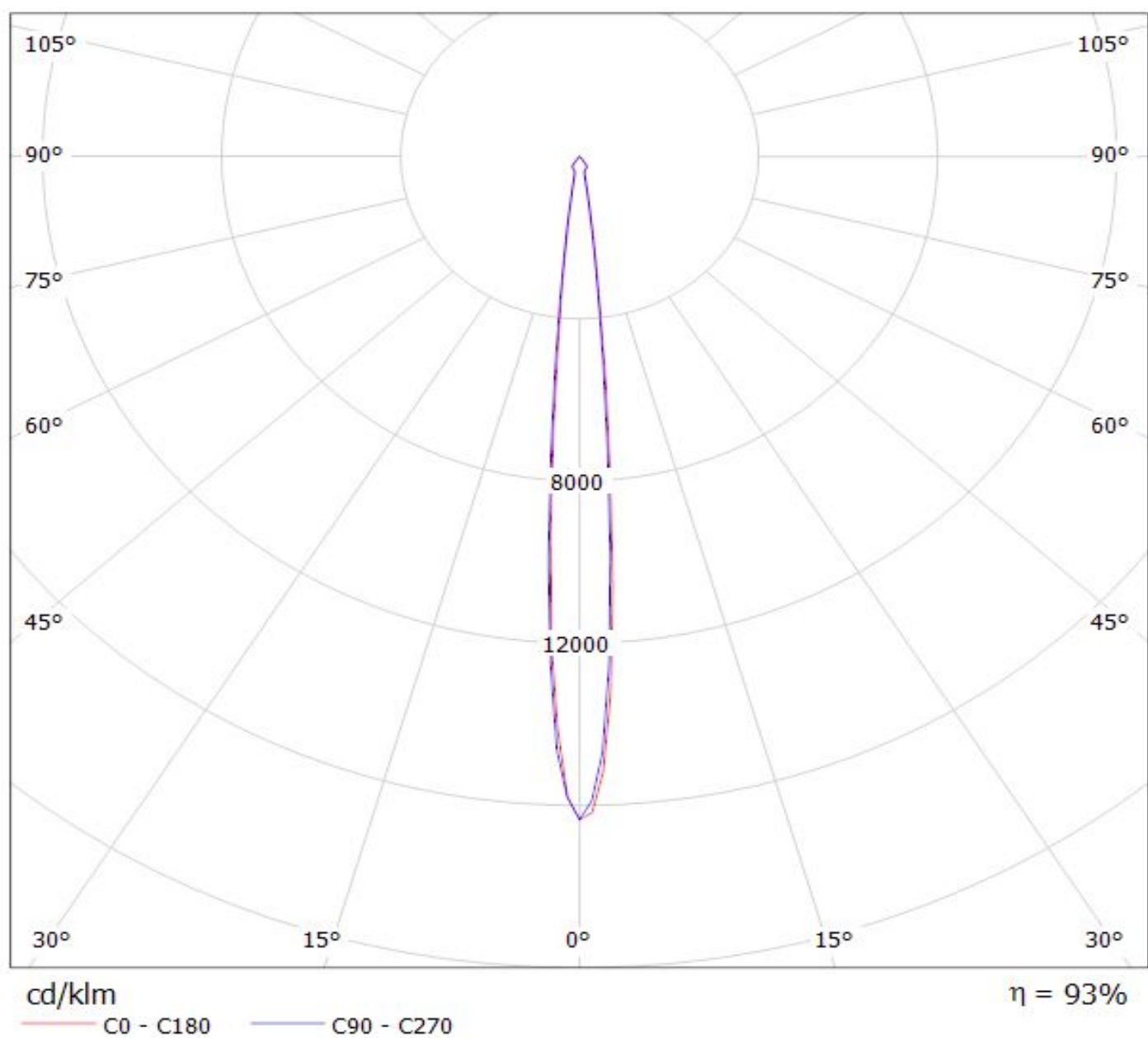
cd/klm

— C0 - C180

— C90 - C270

$\eta = 93\%$

Luminaire: LEDiL Oy F13662_ANGELA-S-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 F13662_ANGELA-S-B_(K12) Eff.94.0%
Lamps: 1 x Luxeon_K12_922.262lm@250mA_P=8.18947W_I=249.9mA

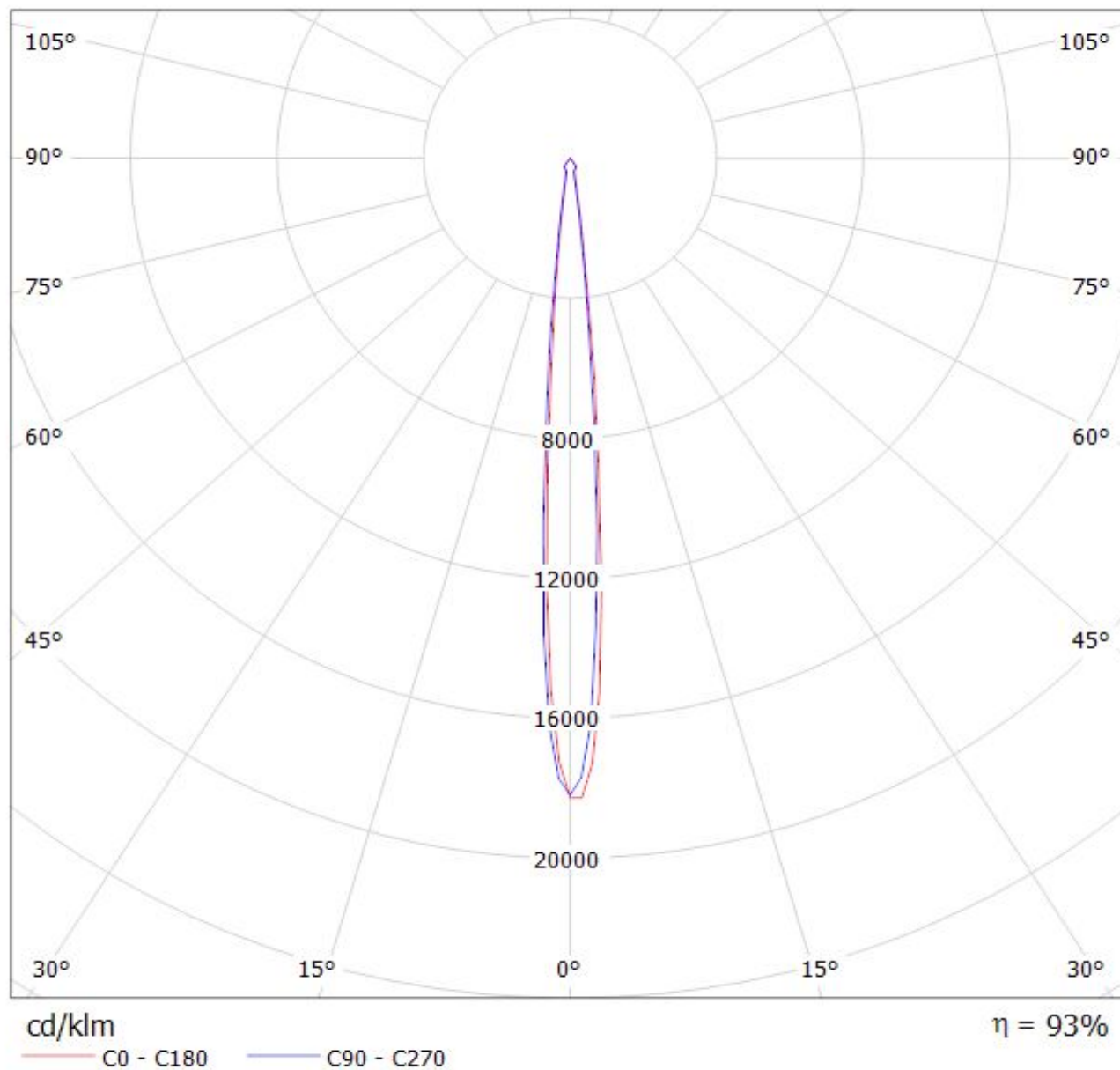


cd/klm
— C0 - C180 — C90 - C270

$\eta = 94\%$

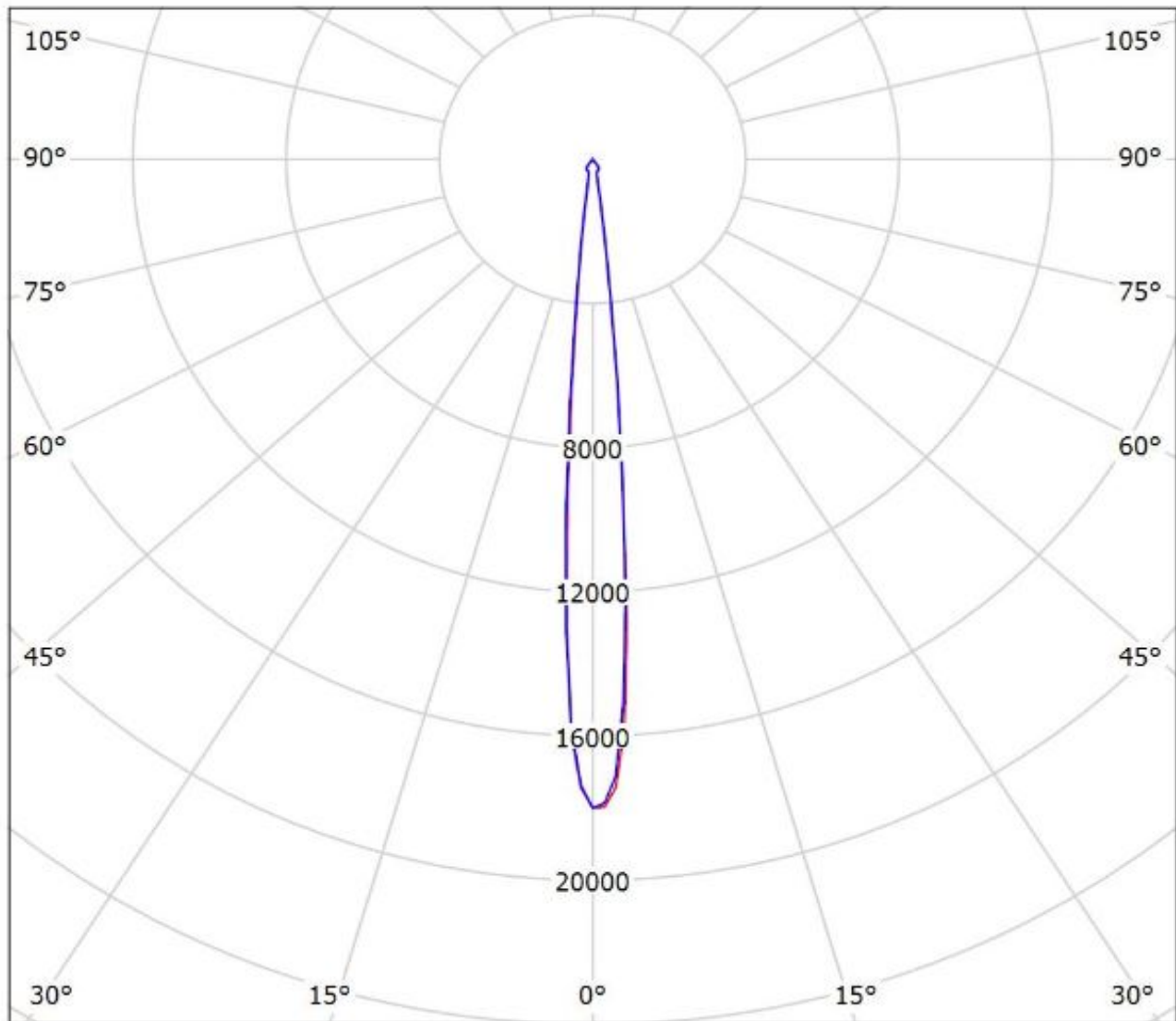
Luminaire: LEDiL Oy F13662_ANGELA-S-B_(CLL030)

Lamps: 1 x CITIZEN_CLL030_(CLL030-1206A1-303M1A2)_1046.22lm@250mA_P=8.46761W_I=249.9mA



Luminaire: LEDiL Oy F13662_ANGELA-S-B_(SOLERIQ_P13)

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

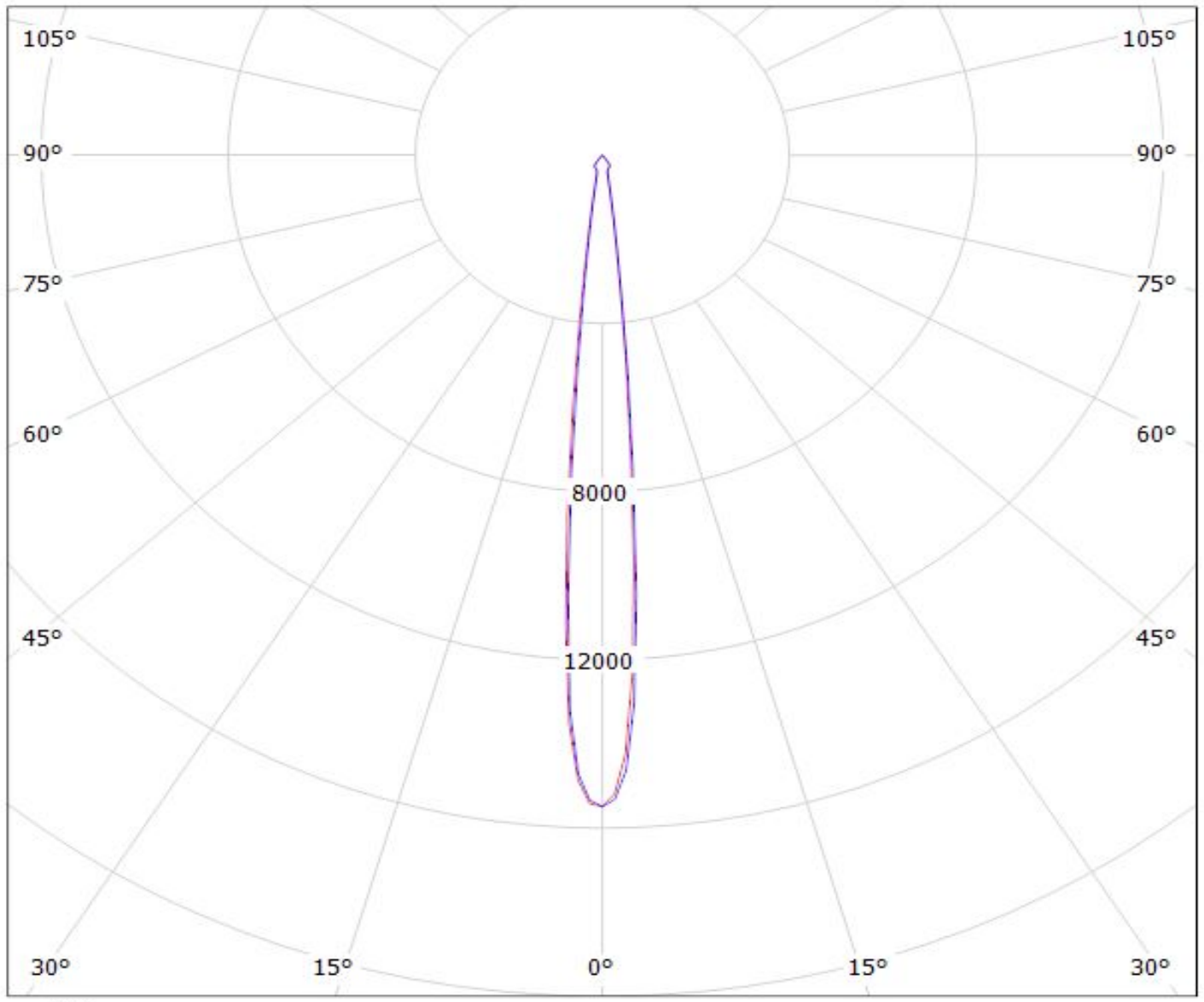


cd/klm

— C0 - C180 — C90 - C270

$\eta = 93\%$

Luminaire: LEDiL Oy F13662_ANGELA-S-B_(MegaZenigata_GW6)
Lamps: 1 x Sharp_MegaZenigata_GW6_(GW6DME30NFC)
_1266.19lm@250mA_CCT=3038K_P=11.2151W_I=250.6mA



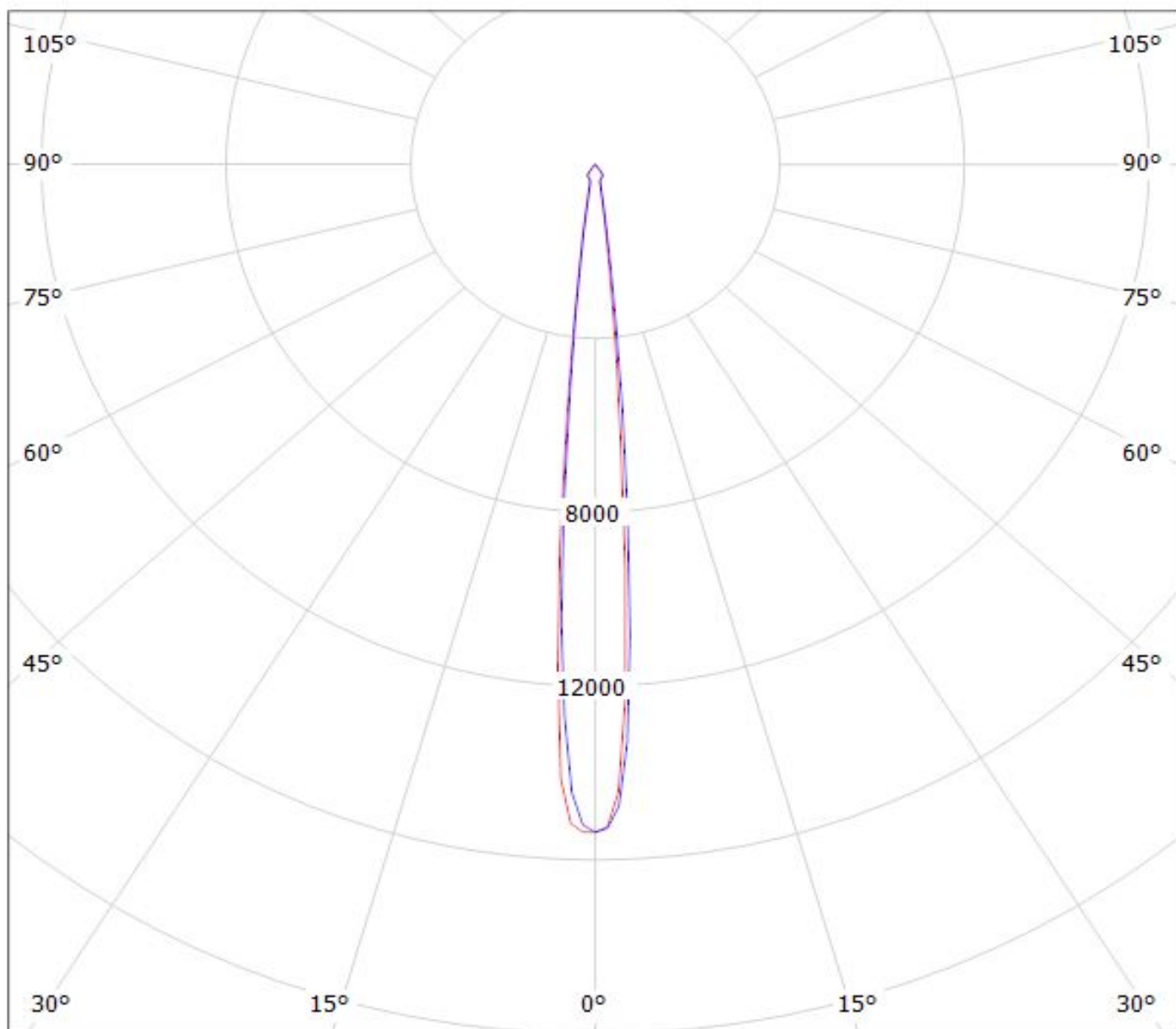
cd/klm

— C0 - C180 — C90 - C270

η = 94%

Luminaire: LEDiL Oy F13662_ANGELA-S-B_(CLU034)

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



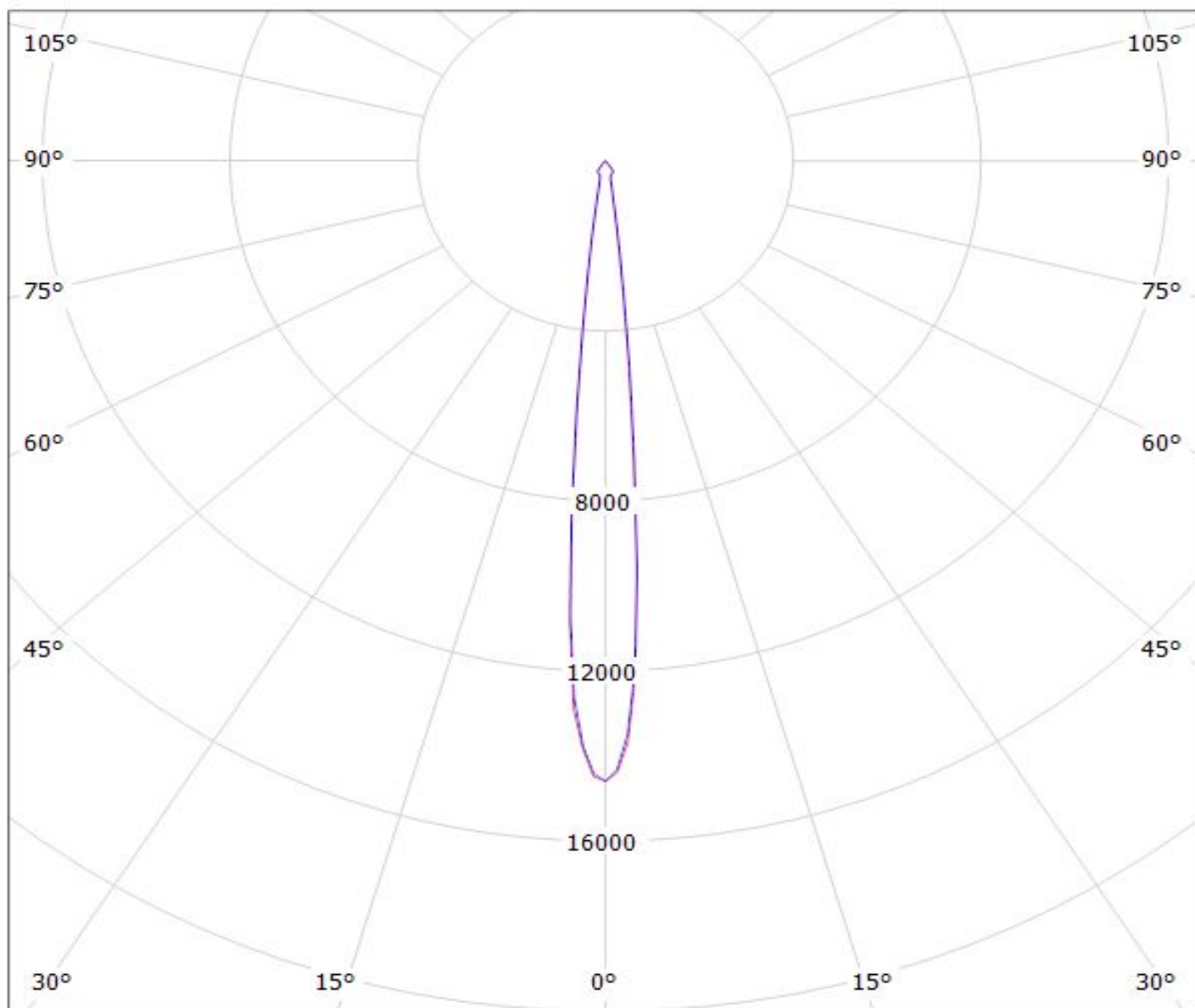
cd/klm

— C0 - C180 — C90 - C270

$\eta = 93\%$

Luminaire: LEDiL Oy F13662_ANGELA-S-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



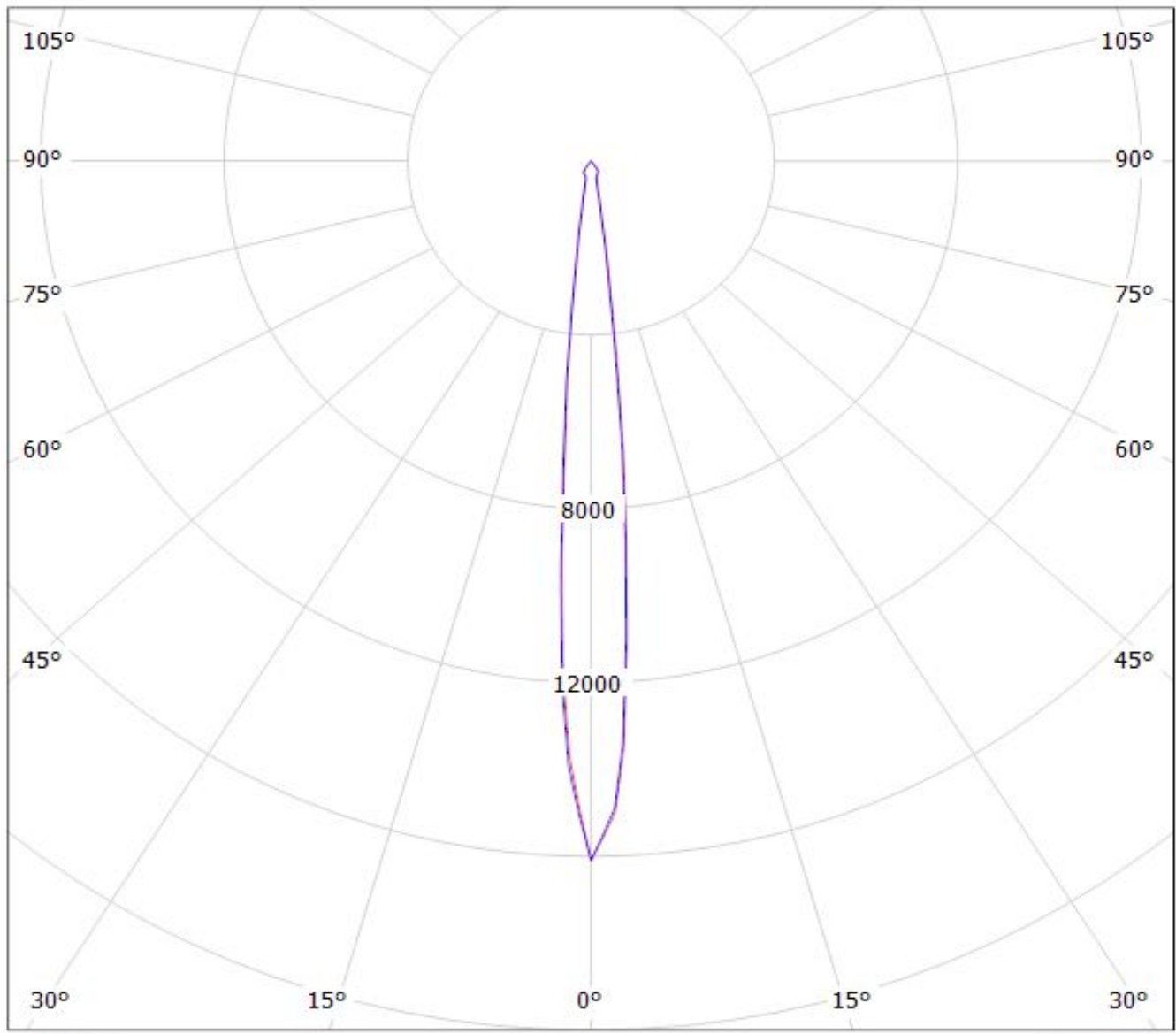
cd/klm

— C0 - C180 — C90 - C270

$\eta = 93\%$

Luminaire: LEDiL Oy F13662_ANGELA-S-B_(MZ) Eff.94.0%

Lamps: 1 x Sharp_Mega_Zenigata_1226.07lm@250mA_P=11.1573W_I=249.8mA



cd/klm

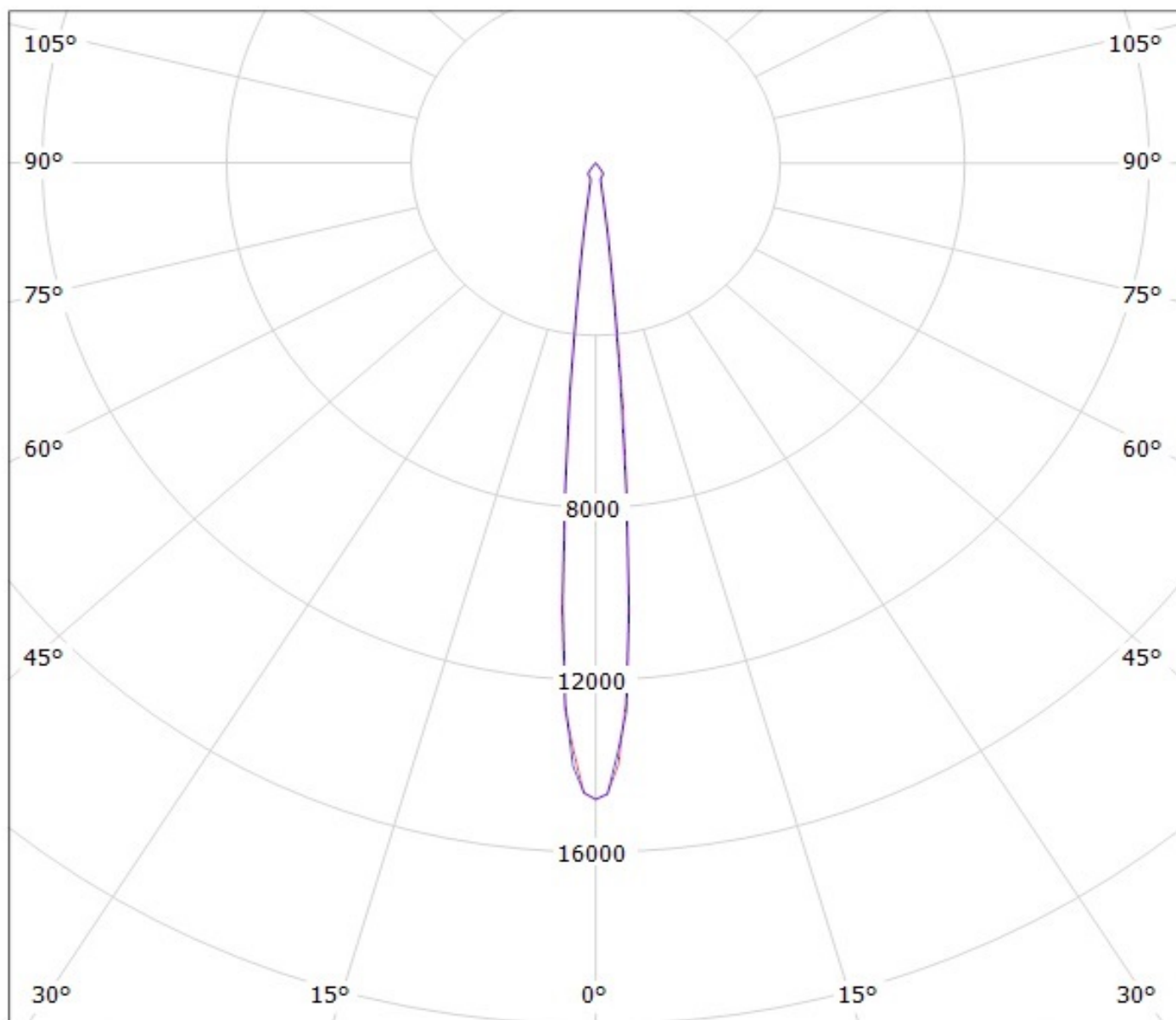
— C0 - C180

— C90 - C270

$\eta = 95\%$

Luminaire: LEDiL Oy F13662_ANGELA-S-B_(Luxeon_CoB_1208)

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

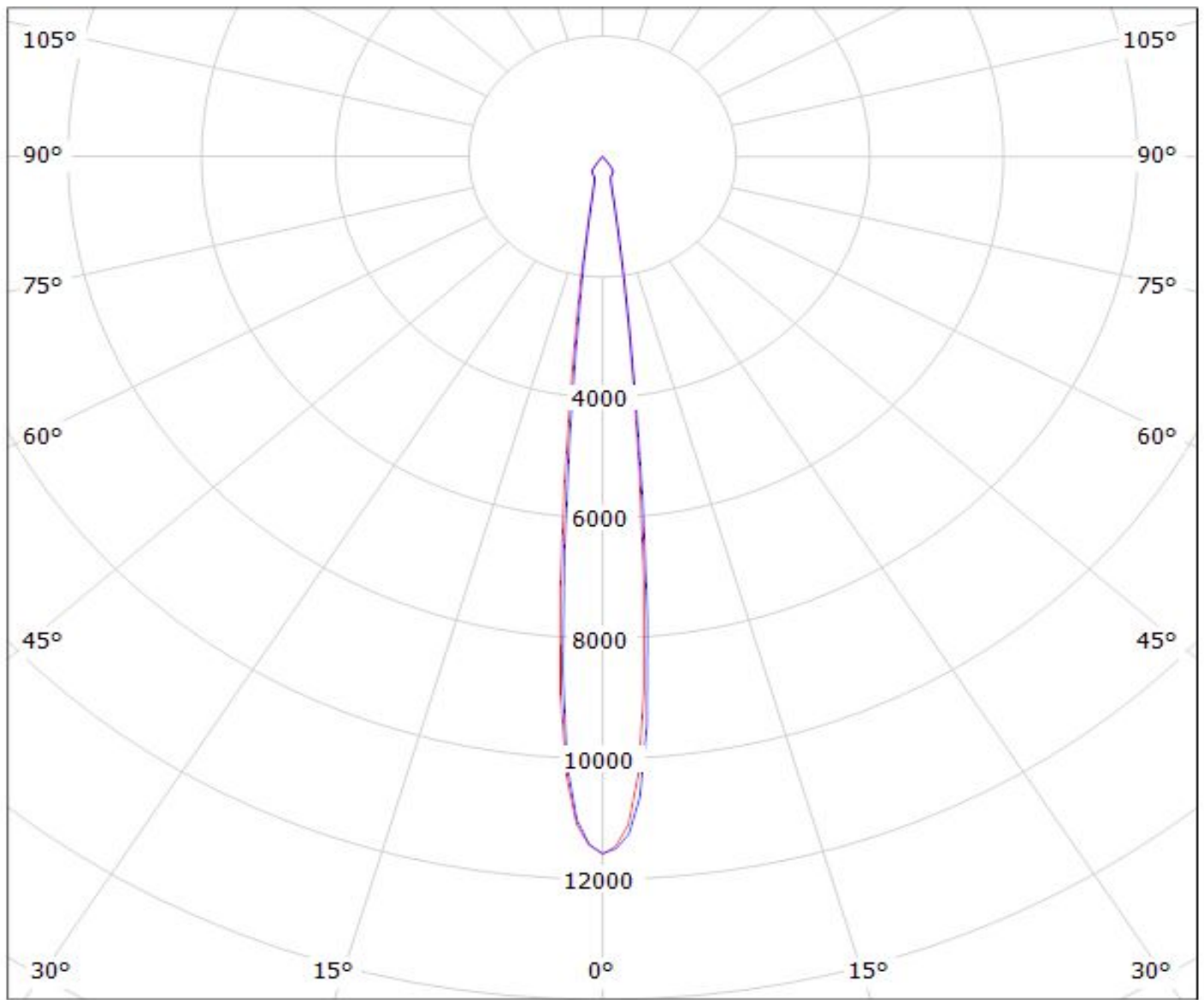


cd/klm

— C0 - C180

— C90 - C270

Luminaire: LEDiL Oy F13662_ANGELA-S-B_(CXA2590)
Lamps: 1 x CREE_CXA2590_(CXA2590-30F-Z4-RPH-00001)
_837.275lm@100mA_CCT=3000K_P=6.36316W_I=100.1mA

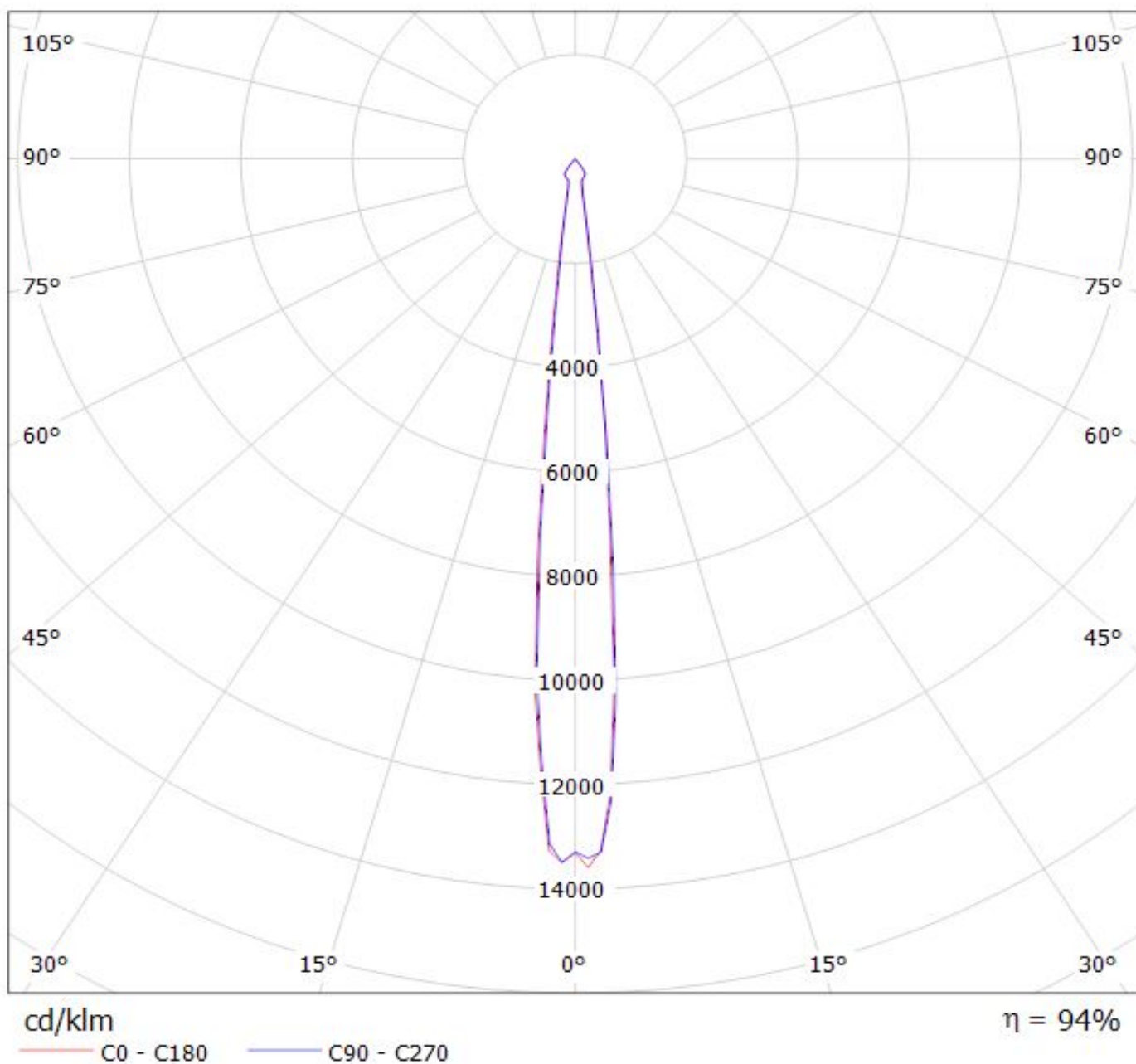


cd/klm

— C0 - C180 — C90 - C270

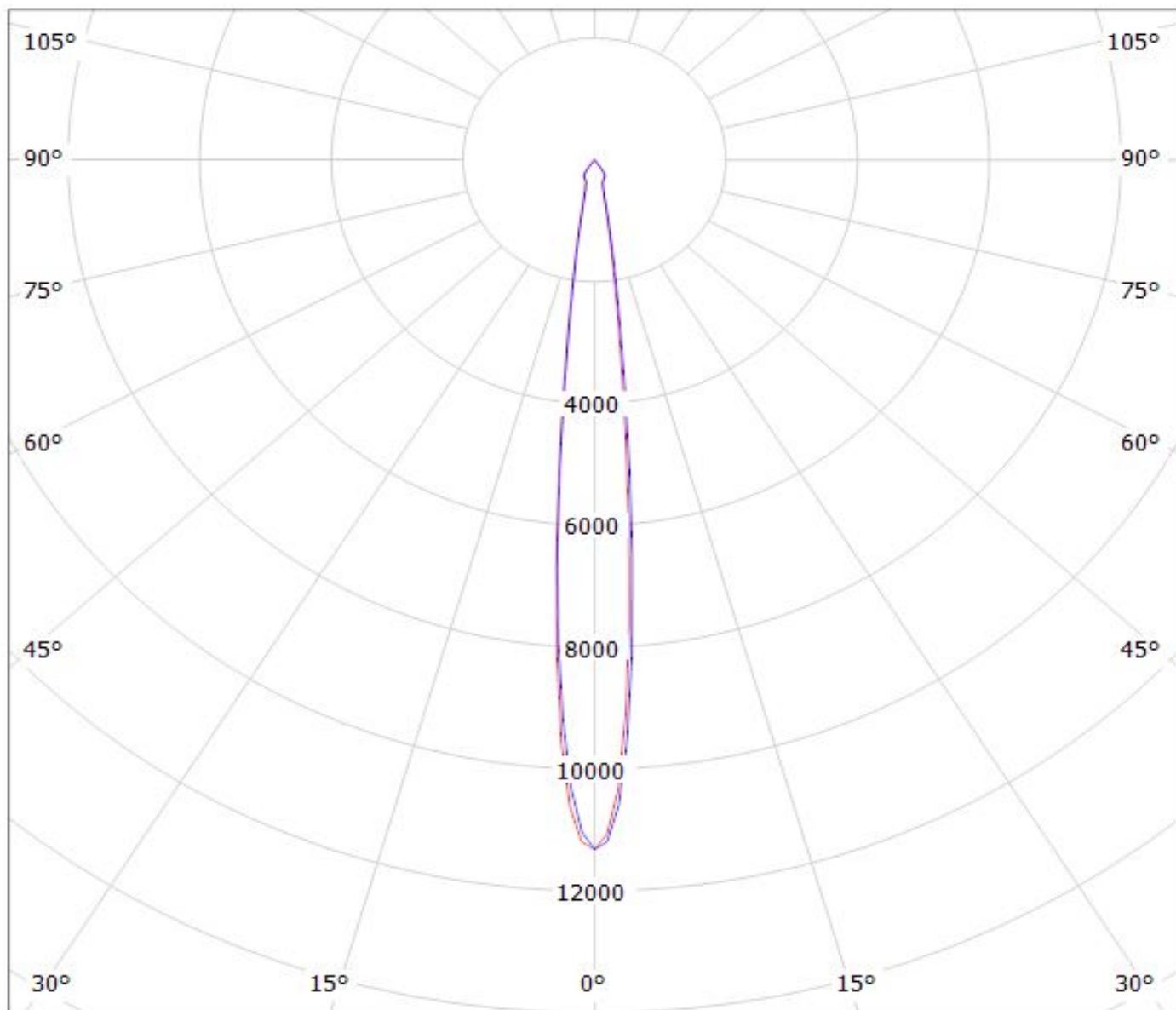
$\eta = 92\%$

Luminaire: LEDiL Oy F13662_ANGELA-S-B_(K16) Eff.94.0%
Lamps: 1 x Luxeon_K16_1252.4lm@250mA_P=10.8991W_U=249.9mA



Luminaire: LEDiL Oy F13662_ANGELA-S-B_(SLE GEN4 LES19)

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



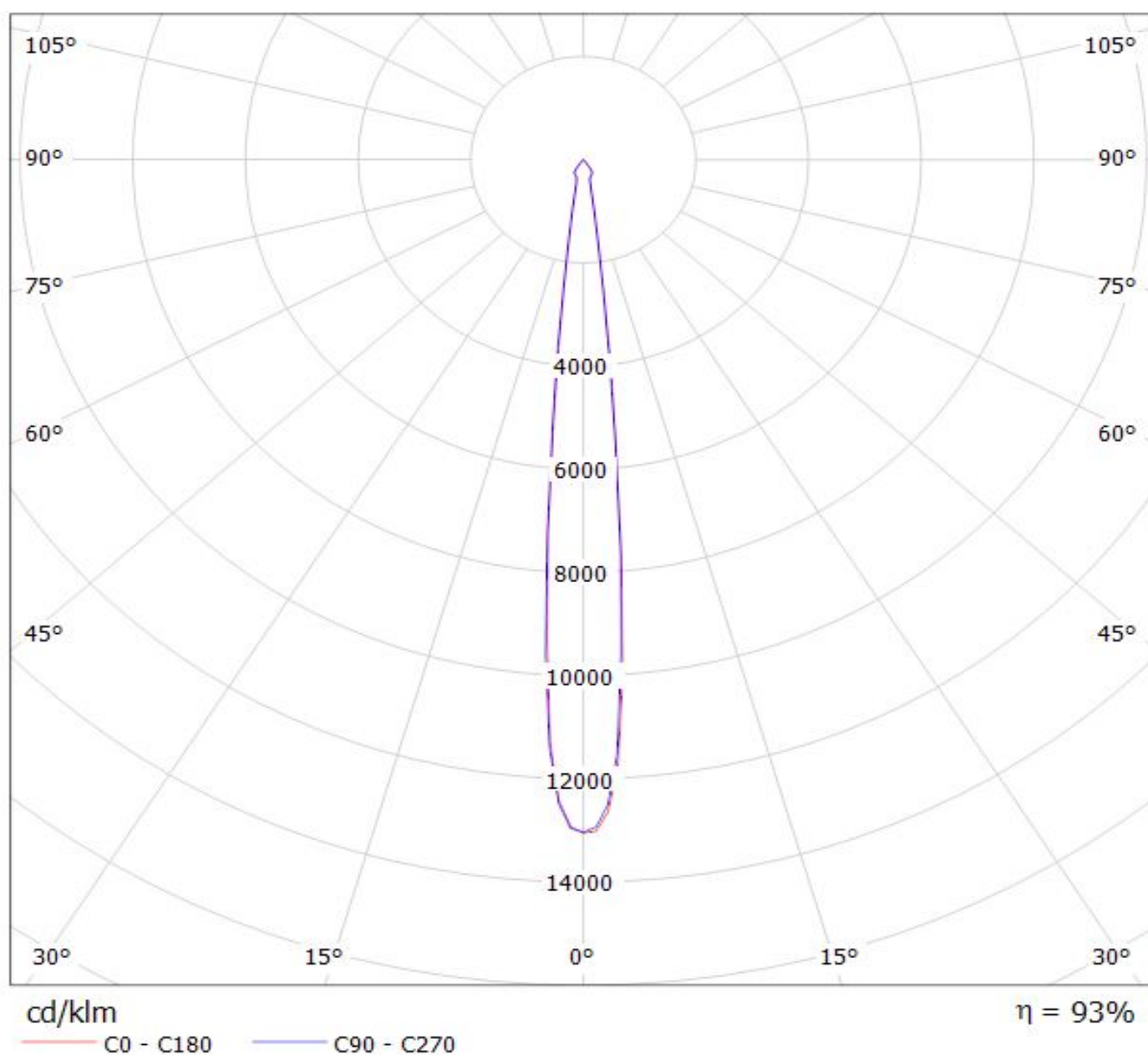
cd/klm

— C0 - C180

— C90 - C270

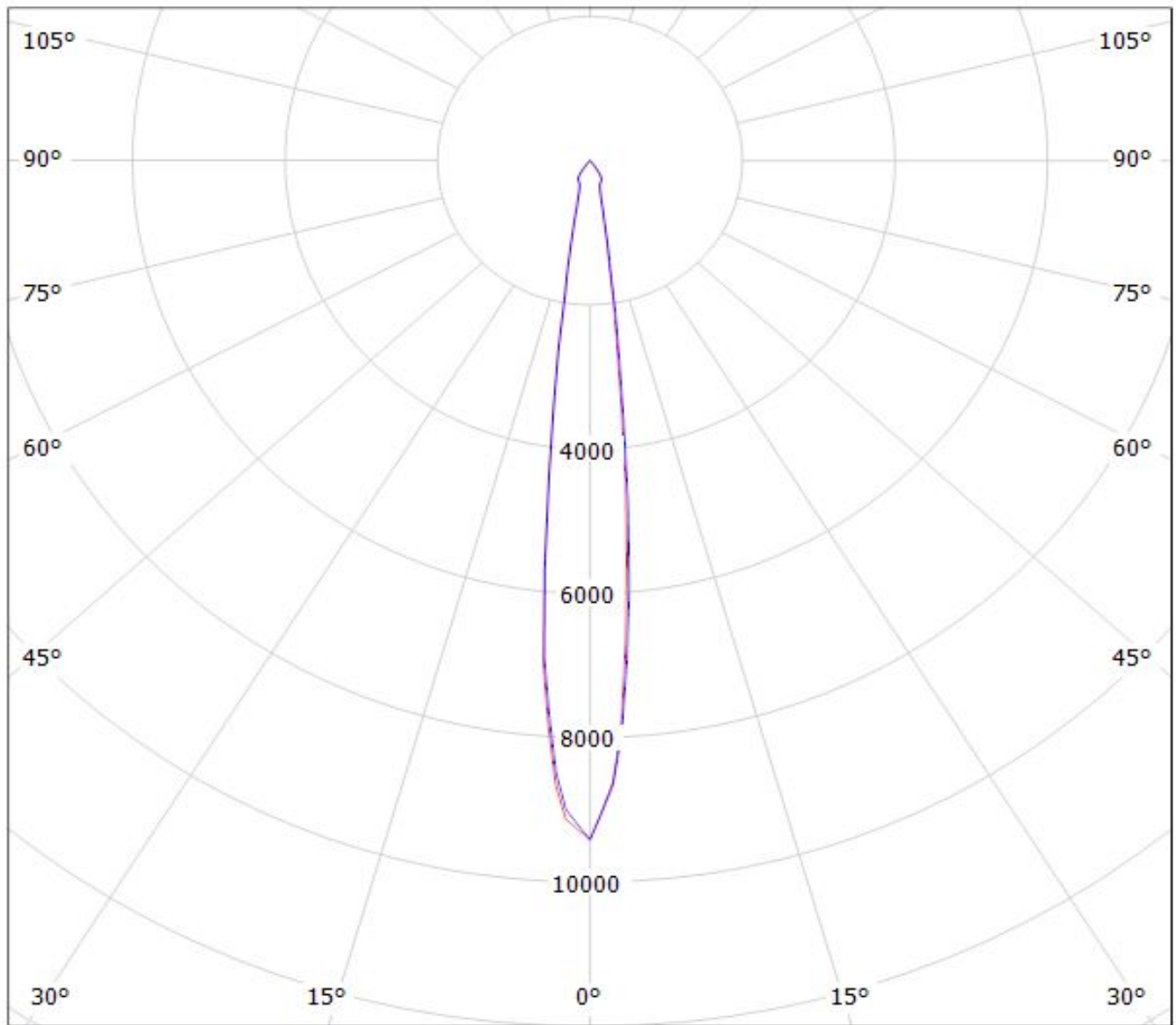
$\eta = 91\%$

Luminaire: LEDiL Oy F13662_ANGELA-S-B_(Soleriq S19) Eff.93.4%
Lamps: 1 x OSRAM_SOLERIQ_S19_(GW_KAHJB1.EM)
_1445.44lm@250mA_CCT=3000K_P=10.558W_I=249.8mA



Luminaire: LEDiL Oy F13662_ANGELA-S-B_(E30) Eff.91.2%

Lamps: 1 x Osram_Soleriq_E30_1364.86lm@250mA_P=10.2445W_I=249.8mA



cd/klm

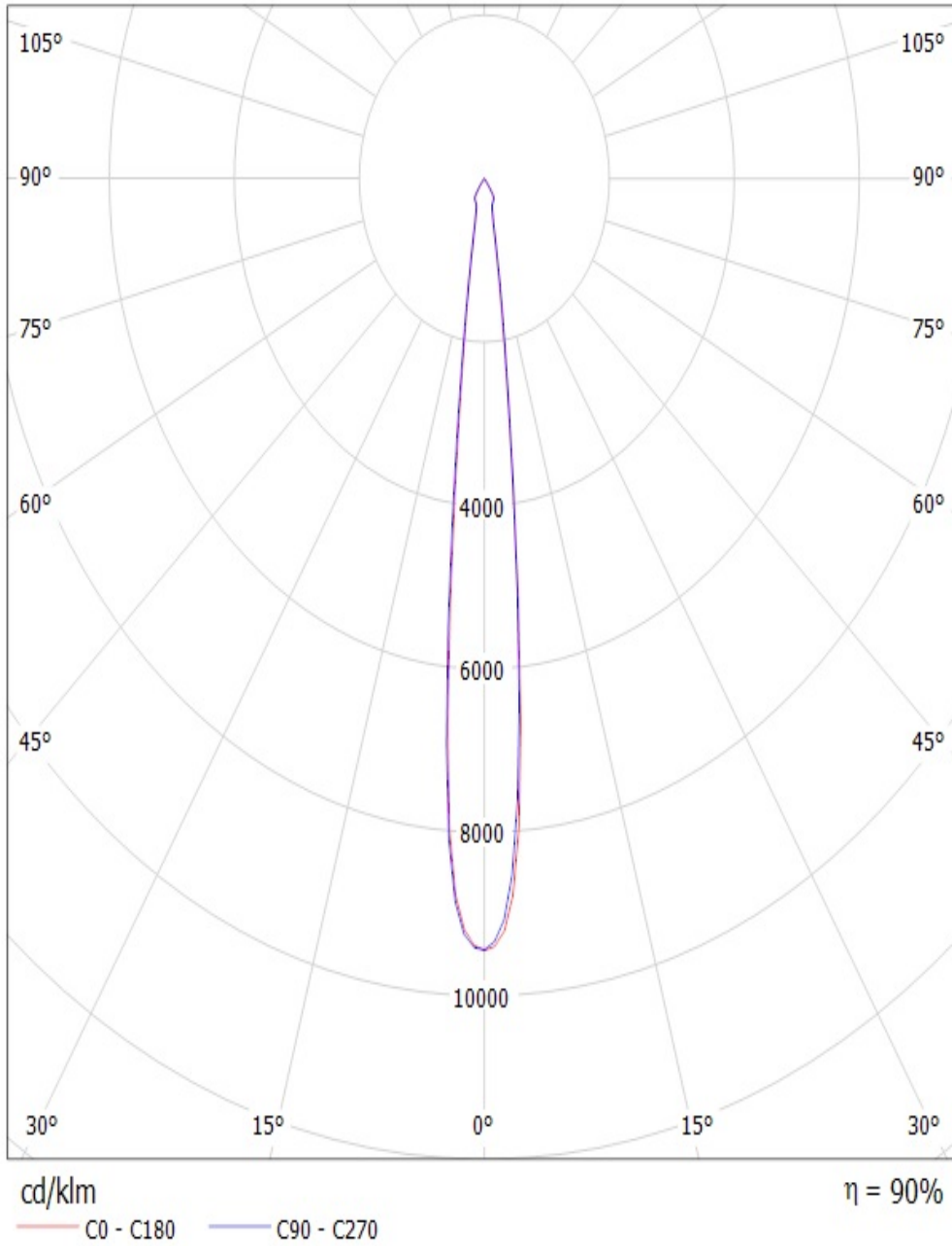
η = 92%

— C0 - C180

— C90 - C270

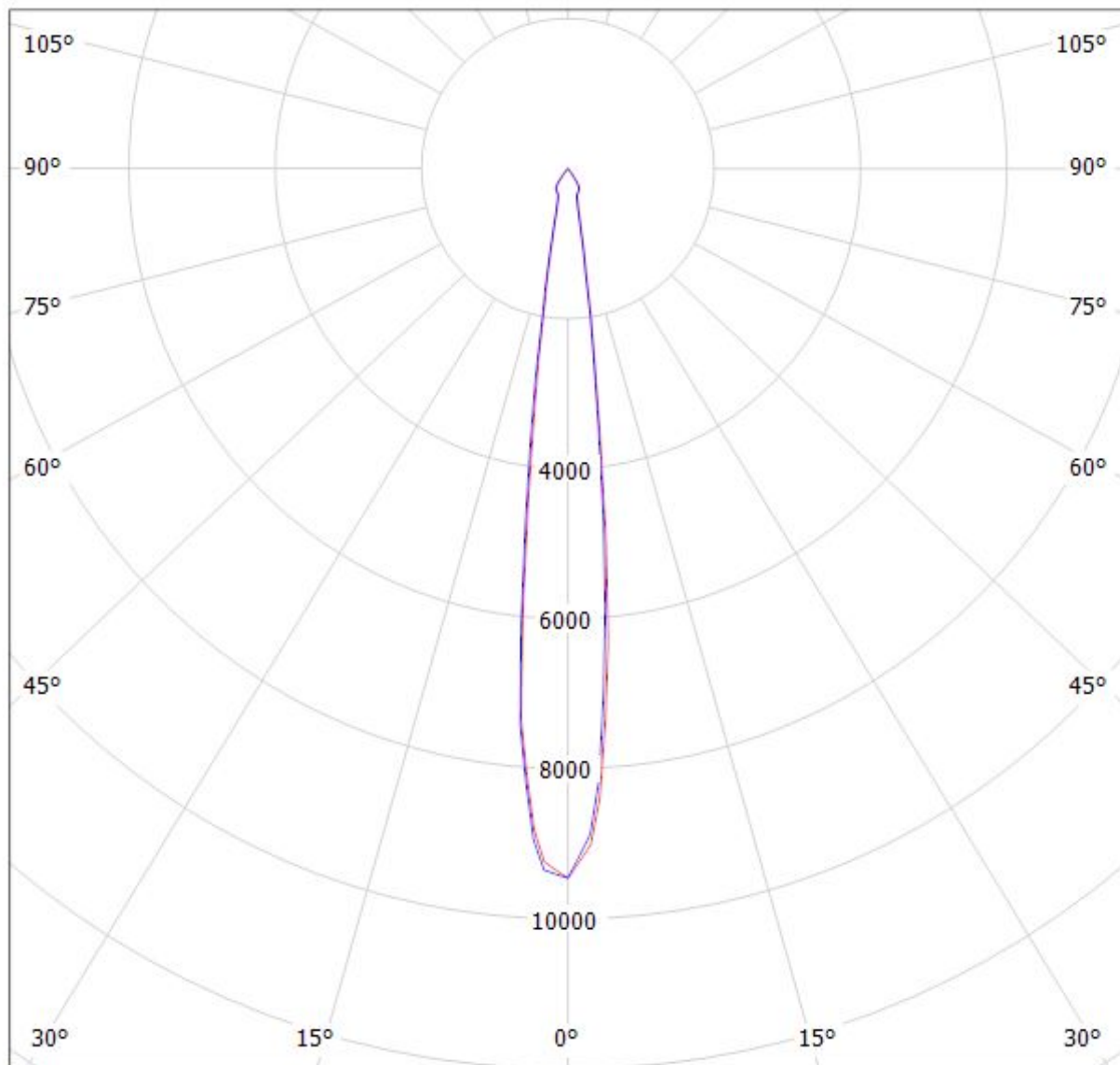
Luminaire: LEDiL Oy F13662_ANGELA-S-B_(Luxeon_CoB_1211)_(BJB2030)

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 F13662_ANGELA-S-B_(Luxeon_CoB_1211)

Lamps: 1 x LUXEON_COB_1211_(LHC1-2790-1211)_923.583lm@250mA_CCT=2700K_P=8.00909W_I=249.8mA



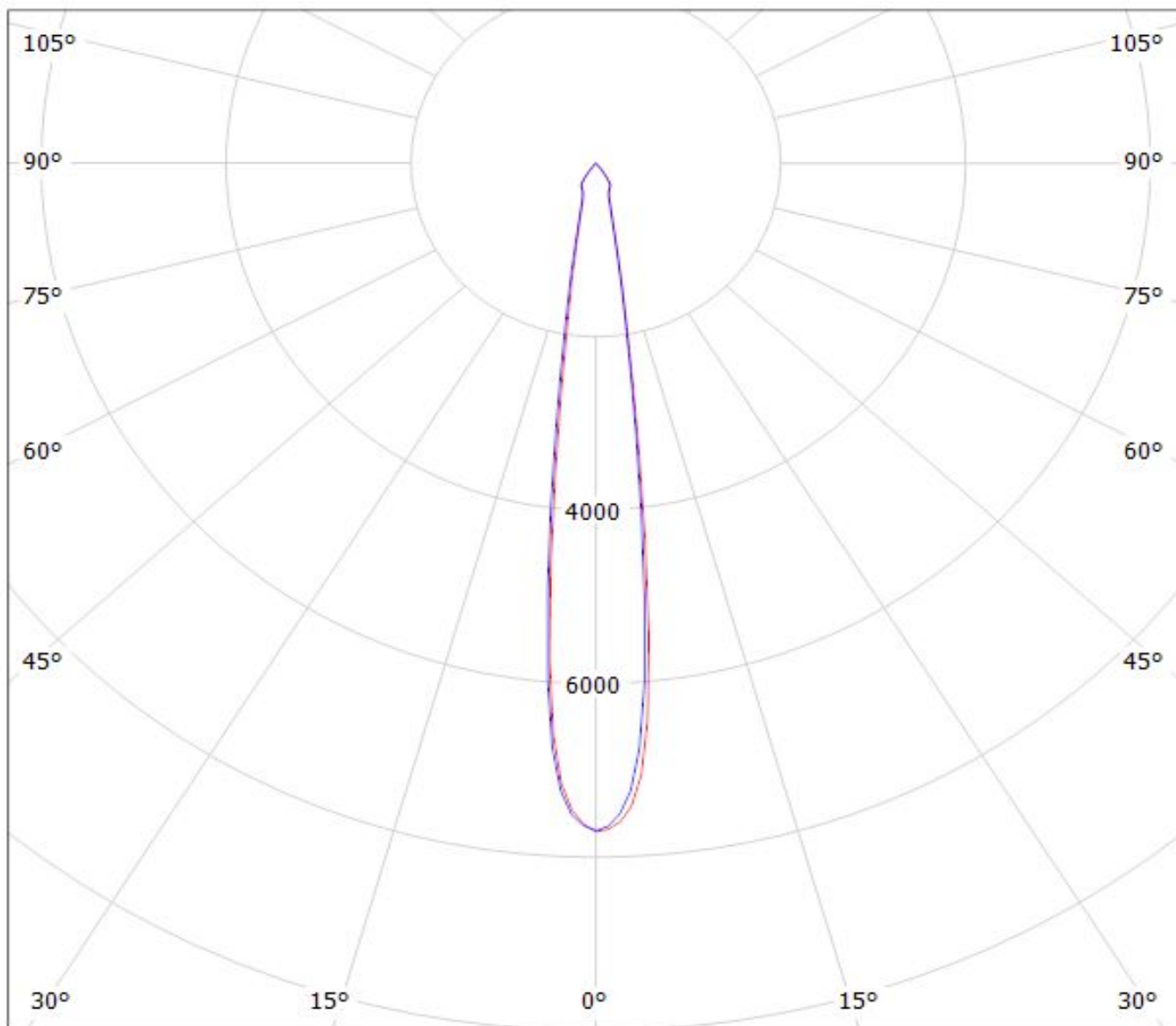
cd/klm

— C0 - C180

— C90 - C270

$\eta = 92\%$

Luminaire: LEDiL Oy F13662_ANGELA-S-B_(ZC-40) Eff.93.4%
Lamps: 1 x Seoul ZC-40_1183.63lm@250mA_P=8.42195W_I=249.9mA



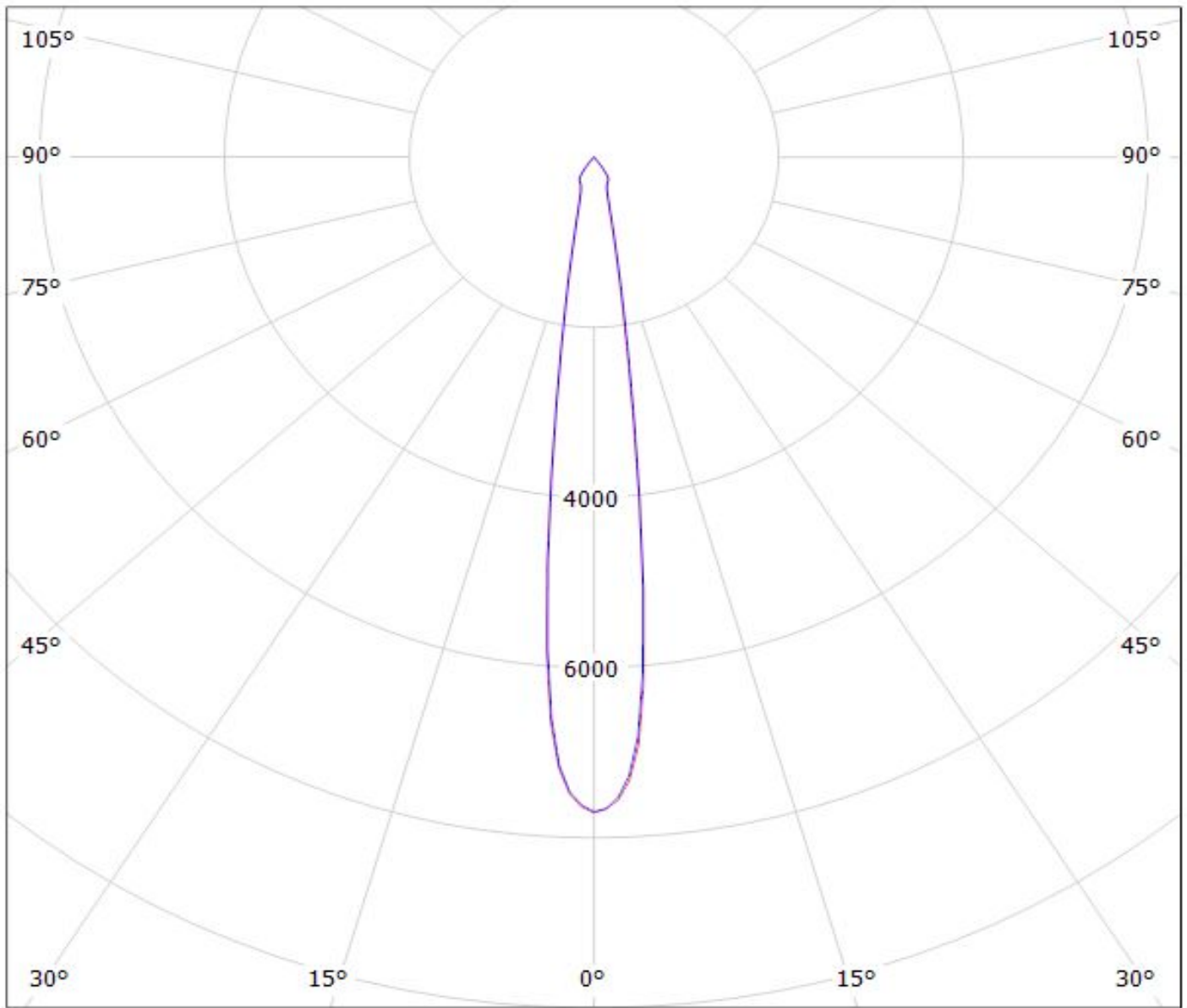
cd/klm

— C0 - C180 — C90 - C270

$\eta = 93\%$

Luminaire: LEDiL Oy F13662_ANGELA-S-B_(ZC40)

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



cd/klm

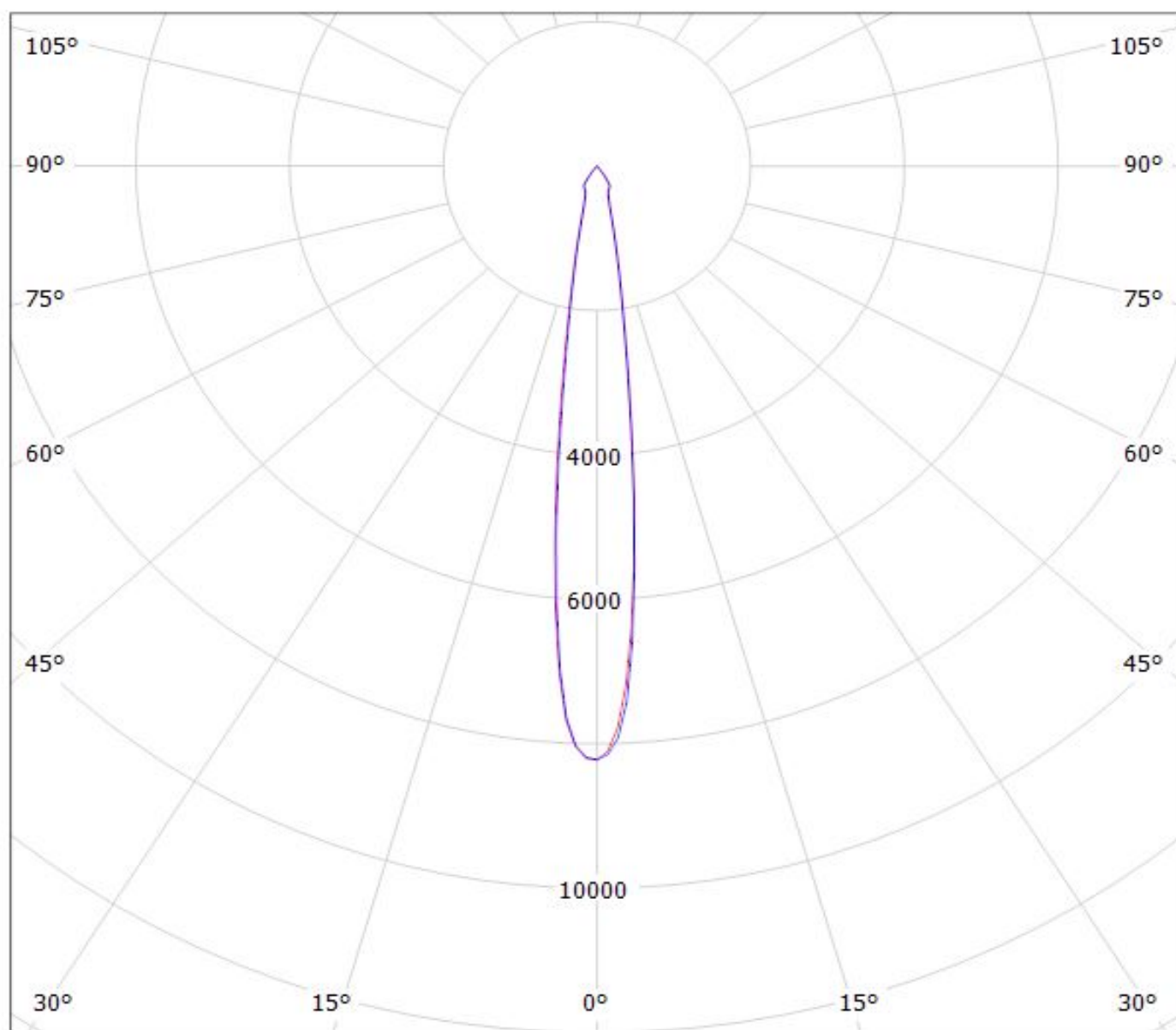
— C0 - C180

— C90 - C270

$\eta = 91\%$

Luminaire: LEDiL Oy F13662_ANGELA-S-B_(SLE_G4_LES23)

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



cd/klm

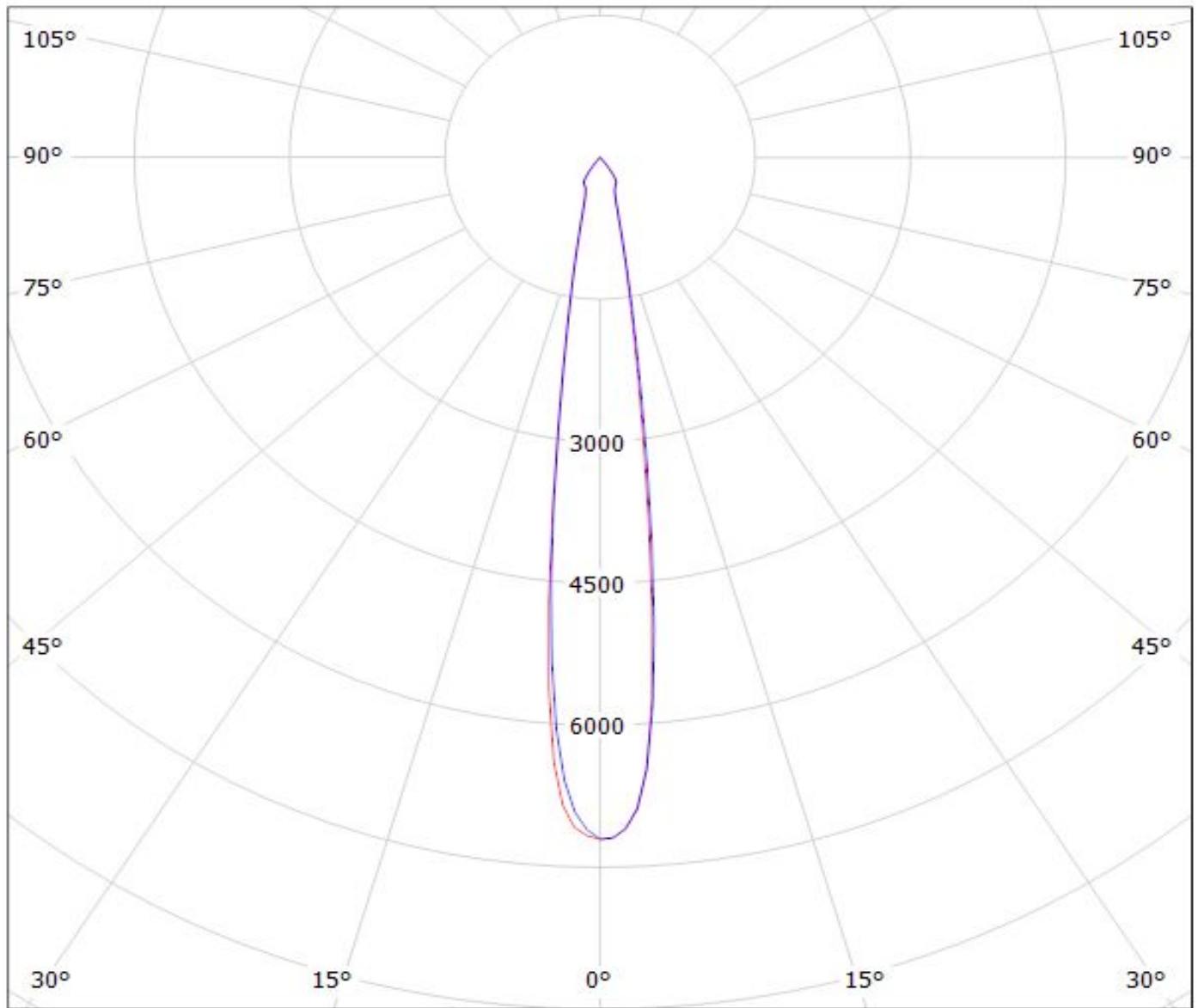
η = 96%

— C0 - C180

— C90 - C270

Luminaire: LEDiL Oy F13662_ANGELA-S-B_(CXA30)

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



cd/klm

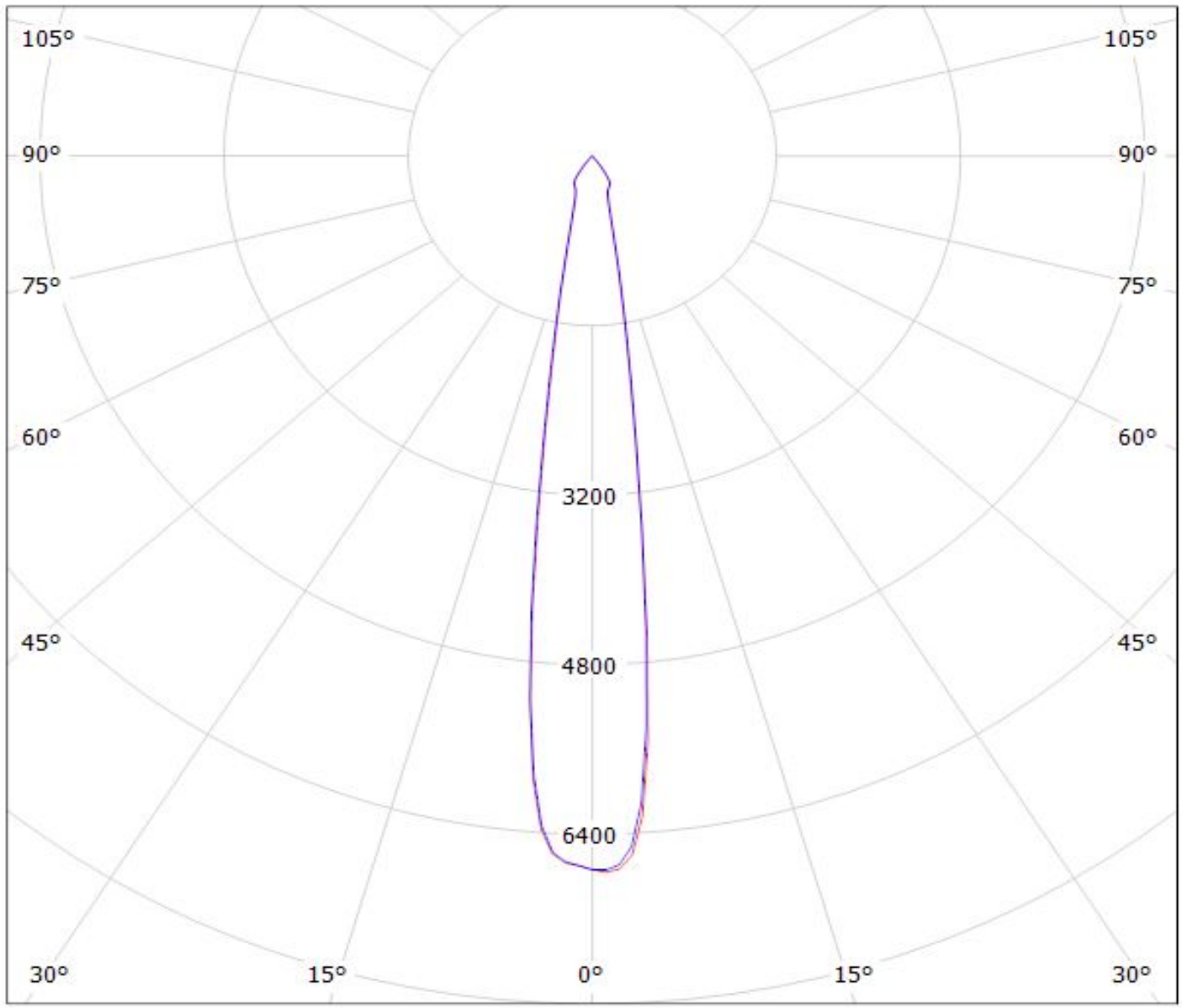
— C0 - C180

— C90 - C270

$\eta = 91\%$

Luminaire: LEDiL Oy F13662_ANGELA-S-B_(COB_40W)

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



cd/klm

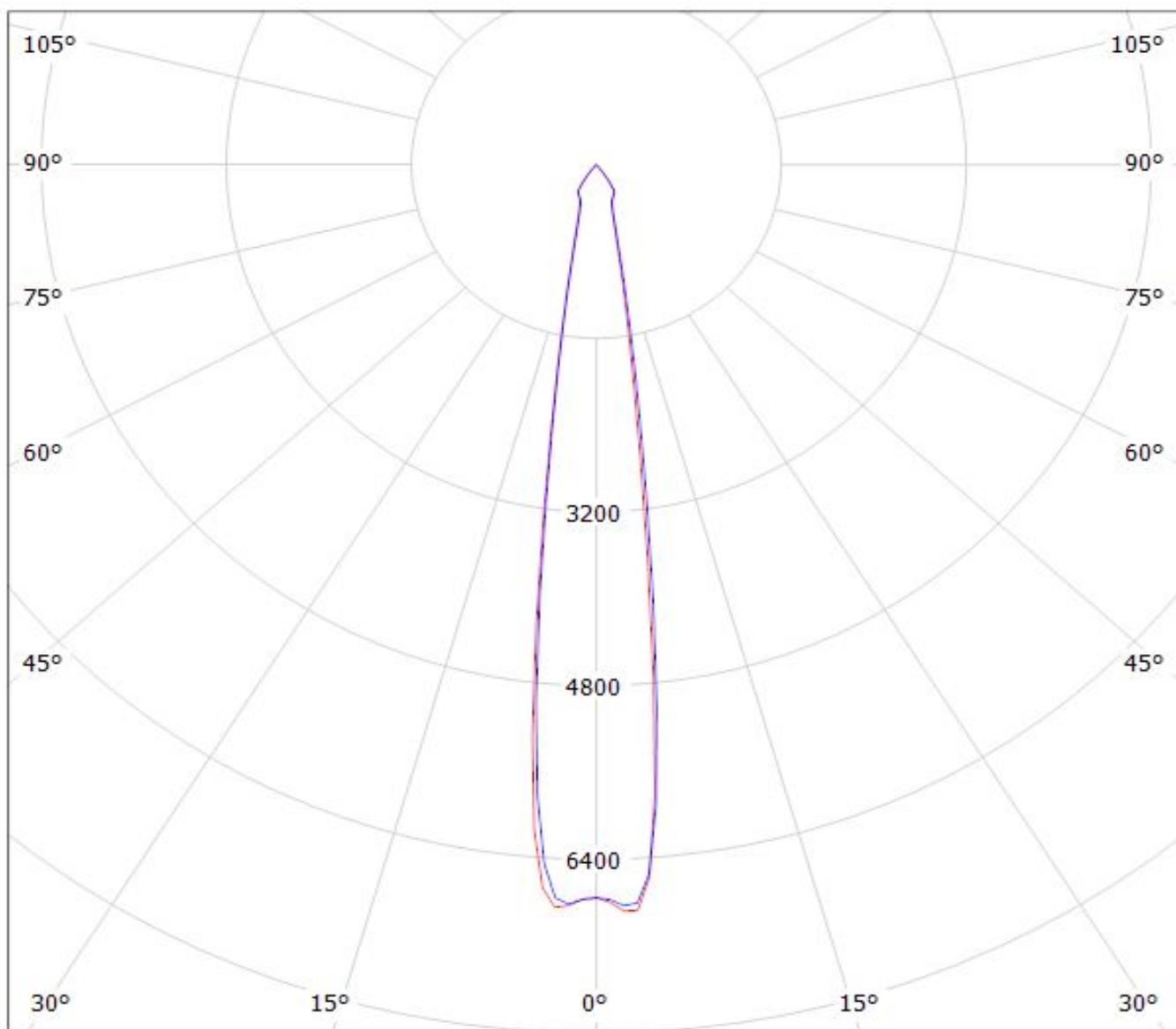
— C0 - C180

— C90 - C270

$\eta = 91\%$

Luminaire: LEDiL Oy F13662_ANGELA-S-B (CLU044)

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



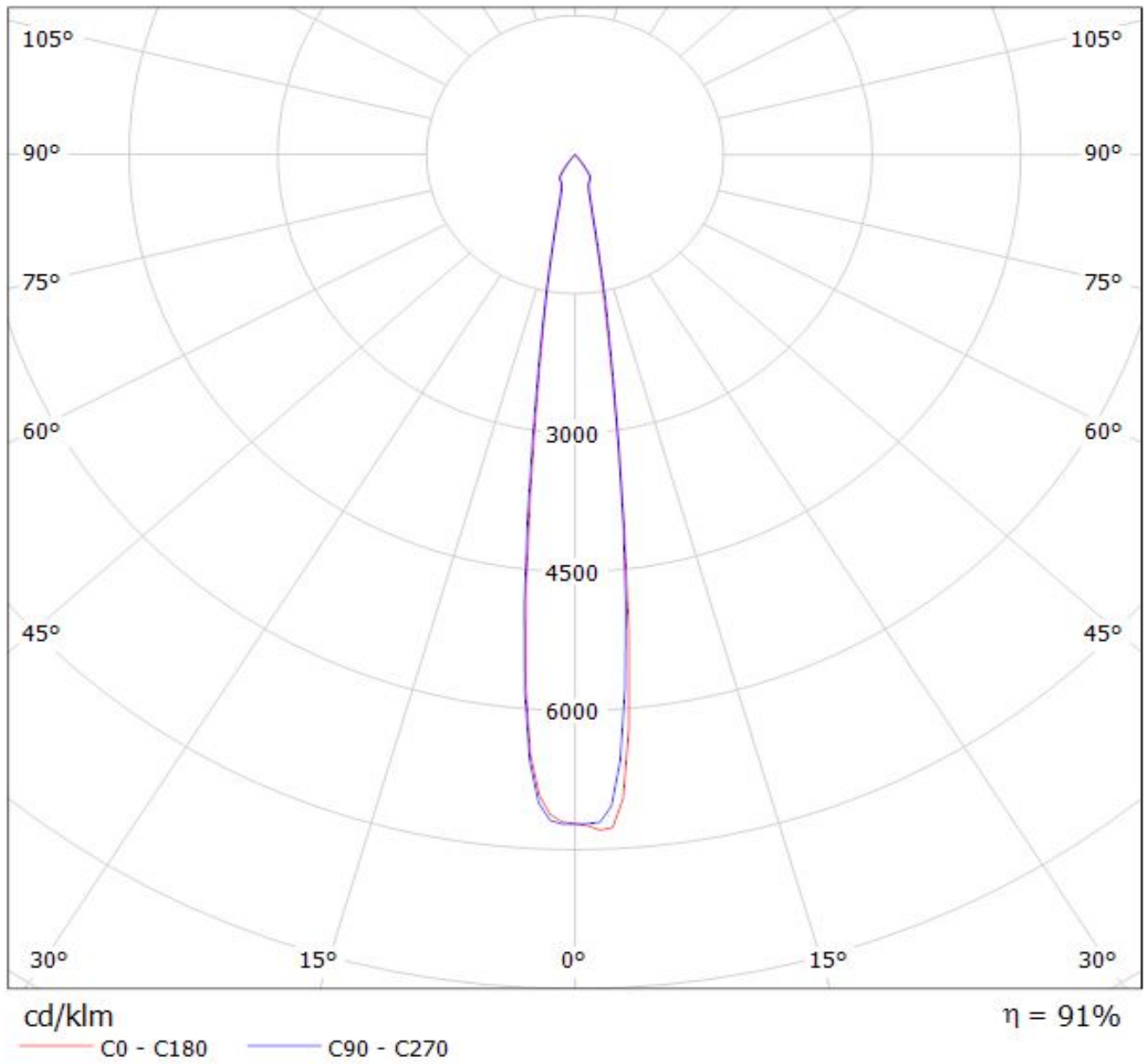
cd/klm

— C0 - C180

— C90 - C270

$\eta = 91\%$

Luminaire: LEDiL Oy F13662_ANGELA-S-B_(CLL040) Eff.91.6%
Lamps: 1 x Citizen_CLL040_1011.32lm@250mA_P=8.24545W_I=249.9mA



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.