

## DETAILS

<b>Product Number</b>	F13663_ANGELA-M-B
<b>Family</b>	ANGELA
<b>Type</b>	Reflector
<b>Color</b>	metal
<b>Diameter</b>	119,5 mm
<b>Height</b>	74,5 mm
<b>Style</b>	round
<b>Optic Material</b>	PC
<b>Holder Material</b>	
<b>Fastening</b>	
<b>Status</b>	production ready
<b>ROHS Compliant</b>	Yes
<b>Date Updated</b>	12/04/2017



## OPTICAL PROPERTIES

LED	Viewing	Light	Effi-		Connector
	Angle	Beam	ciency	cd/lm	
BXRA ES Rectangle	16 deg	Medium	82 %	3.690	BJB: 47.319.2040
V18 Gen7	19 deg	Medium	81 %	3.000	BJB: 47.319.2350
CLL04x/CLU04x	21 deg	Medium	81 %	2.730	BJB: 47.319.2030
CLL03x/CLU03x	16 deg	Medium	83 %	3.800	BJB: 47.319.2021
CLL03x/CLU03x	16 deg	Medium	83 %	3.630	A.A.G. STUCCHI: 8101/G2
CLL04x/CLU04x	21 deg	Medium	81 %	2.650	A.A.G. STUCCHI: 8102/G2
CLU730/731	sim: 16	Medium	sim: 91 %	7.780	BJB: 47.319.2030
CLU720/721	14 deg	Medium	83 %	4.000	A.A.G. STUCCHI: 8101/G2
CLU720/721	14 deg	Medium	82 %	4.200	BJB: 47.319.2021
CLL03x/CLU03x	sim: 18	Medium	sim: 94 %	sim: 6.300	BJB: 47.319.2021
CLL04x/CLU04x	sim: 22	Medium	sim: 88 %	sim: 4.200	BJB: 47.319.2030
CXA/B 30xx	21 deg	Medium	80 %	2.700	A.A.G. STUCCHI: 8404/G2
CXA/B 25xx	18 deg	Medium	82 %	3.180	A.A.G. STUCCHI: 8401/G2
CXA/B 25xx	20 deg	Medium	79 %	2.800	BJB: 47.319.2141
COB 10W/13W/17W/24W	16 deg	Medium	83 %	3.900	BJB: 47.319.2080
COB 10W/13W/17W/24W	16 deg	Medium	82 %	3.800	A.A.G. STUCCHI: 8600/G2
COB 40W/60W	22 deg	Medium	81 %	2.630	A.A.G. STUCCHI: 8102/G2
LUXEON K16	17 deg	Medium	87 %	3.700	BJB: 47.319.2070
LUXEON K12	17 deg	Medium	87 %	3.700	BJB: 47.319.2070
LUXEON CoB 1208	17 deg	Medium	83 %	3.500	A.A.G. STUCCHI: 8301/G2
LUXEON CoB 1204/1205	16 deg	Medium	82 %	3.840	A.A.G. STUCCHI: 8301/G2
LUXEON CoB 1211	19 deg	Medium	81 %	3.060	A.A.G. STUCCHI: 8102/G2
LUXEON CoB 1211	19 deg	Medium	80 %	3.000	BJB: 47.319.2030
LUXEON CoB 1216	22 deg	Medium	79 %	2.490	BJB: 47.319.2030
CXM-22	22 deg	Medium	81 %	2.500	BJB: 47.319.2030

### OPTICAL PROPERTIES

LED	Viewing	Light	Effi-	cd/lm	Connector
	Angle	Beam	ciency		
CXM-14	16 deg	Medium	82 %	3.900	BJB: 47.319.2021
Soleriq E30	20 deg	Medium	81 %	2.900	BJB: 47.319.2090
Soleriq S13	15 deg	Medium	83 %	4.000	A.A.G. STUCCHI: 8502/G2
Soleriq S19	18 deg	Medium	83 %	3.380	BJB: 47.319.2170
Soleriq S19	17 deg	Medium	83 %	3.400	A.A.G. STUCCHI: 8503/G2
Soleriq P13	16 deg	Medium	83 %	3.760	A.A.G. STUCCHI: 8502/G2
Soleriq S13 Gen2	16 deg	Medium	80 %	3.730	BJB: 47.319.2021
Soleriq S15	sim: 18	Medium	sim: 90 %	sim: 6.012	BJB: 47.319.2021
COB D Series LES 22 mm	sim: 23	Medium	sim: 87 %	sim: 3.840	BJB: 47.319.2030
COB D Series LES 14.5 mm	17 deg	Medium	81 %	3.400	A.A.G. STUCCHI: 8101/G2
COB D Series LES 14.5 mm	17 deg	Medium	81 %	3.400	BJB: 47.319.2021
ZC25/40	23 deg	Medium	81 %	2.700	BJB: 47.319.2030
ZC12/18	16 deg	Medium	82 %	3.770	A.A.G. STUCCHI: 8101/G2
ZC25/40	21 deg	Medium	81 %	2.720	A.A.G. STUCCHI: 8102/G2
Mega Zenigata (GW6DME)	17 deg	Medium	84 %	3.700	BJB: 47.319.2011
Mega Zenigata (GW6DME)	17 deg	Medium	83 %	3.560	A.A.G. STUCCHI: 8301/G2
STARK SLE PURE G3 LES17	17 deg	Medium	82 %	3.450	A.A.G. STUCCHI: 8101/G2
SLE G4 LES23 H	20 deg	Medium	85 %	3.000	-
SLE G4 LES19 H	17 deg	Medium	81 %	3.400	-
SLE G5 LES15	16 deg	Medium	82 %	3.800	BJB: 47.319.2021
SLE G5 LES19 H	17 deg	Medium	80 %	3.500	-
SLE G5 LES23 H	20 deg	Medium	80 %	2.900	-
SLE G6 LES19 H	sim: 18	Medium	sim: 88 %	sim: 5.390	-
SLE G6 LES23 H	sim: 21	Medium	sim: 88 %	sim: 4.270	-
SLE G6 LES17 H	sim: 17	Medium	sim: 88 %	sim: 5.900	-
SLE G6 LES15 H D50	sim: 15	Medium	sim: 89 %	sim: 8.300	-

D

C

B

A

4

4

LED position

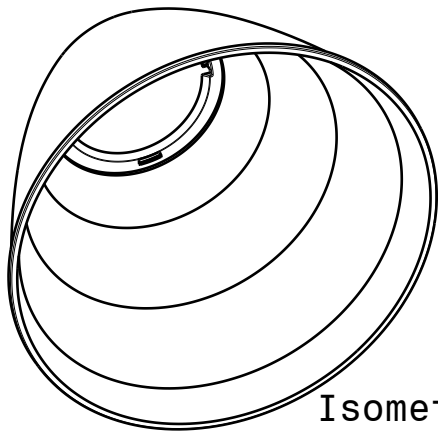
Ø 119.5

Ø 39

Bottom view  
Scale: 1:2

3

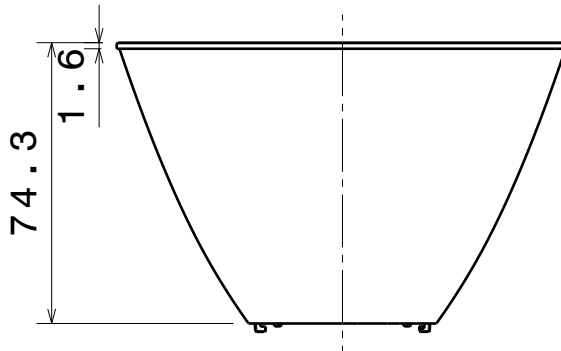
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Isometric view  
Scale: 1:2

2

2



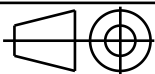
Front view  
Scale: 1:2

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  
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agreement with LEDiL Oy."

SIZE PART NUMBER

A4

-

SCALE 1:2 WEIGHT

-

SHEET 1/1

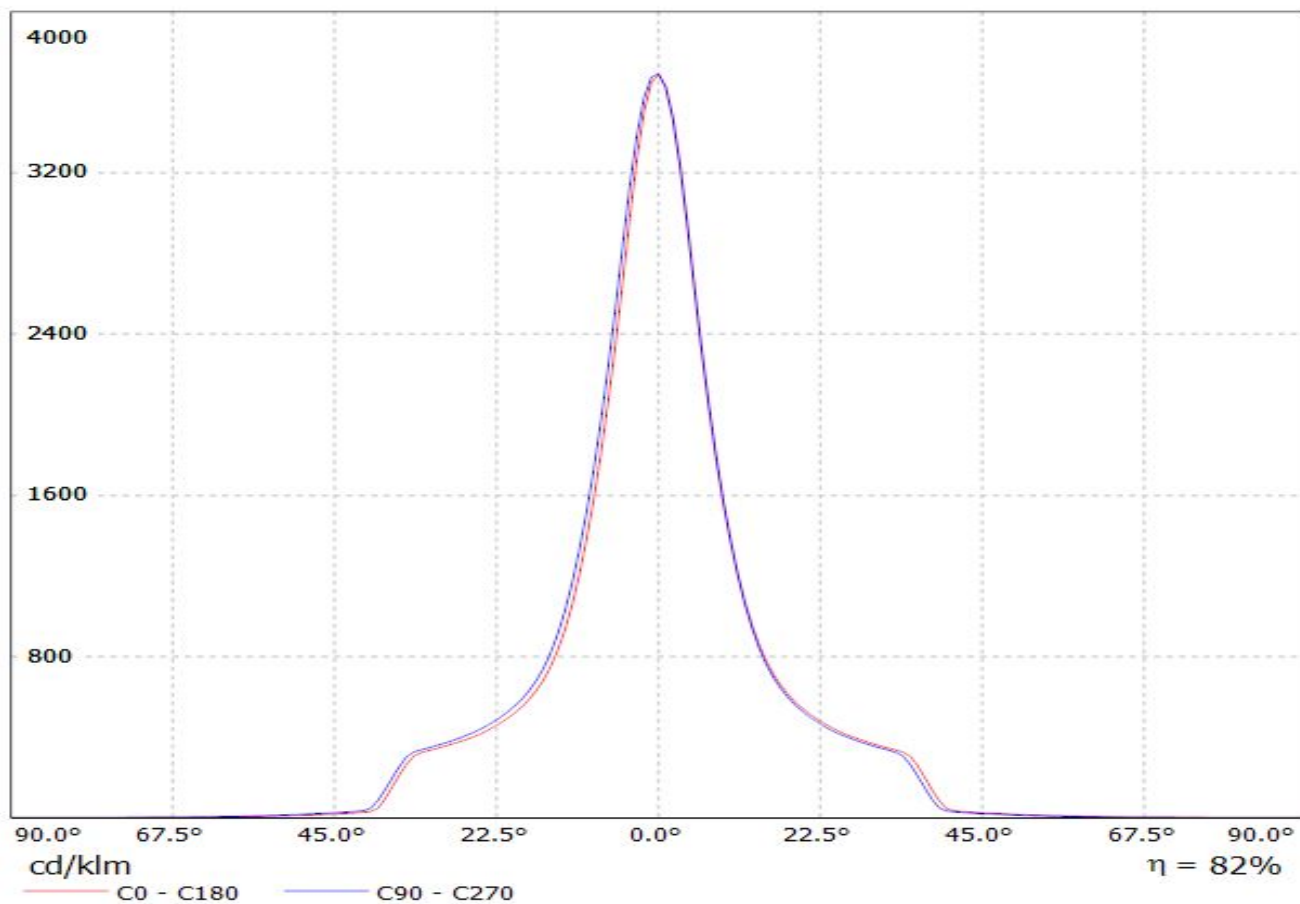
D

A

1

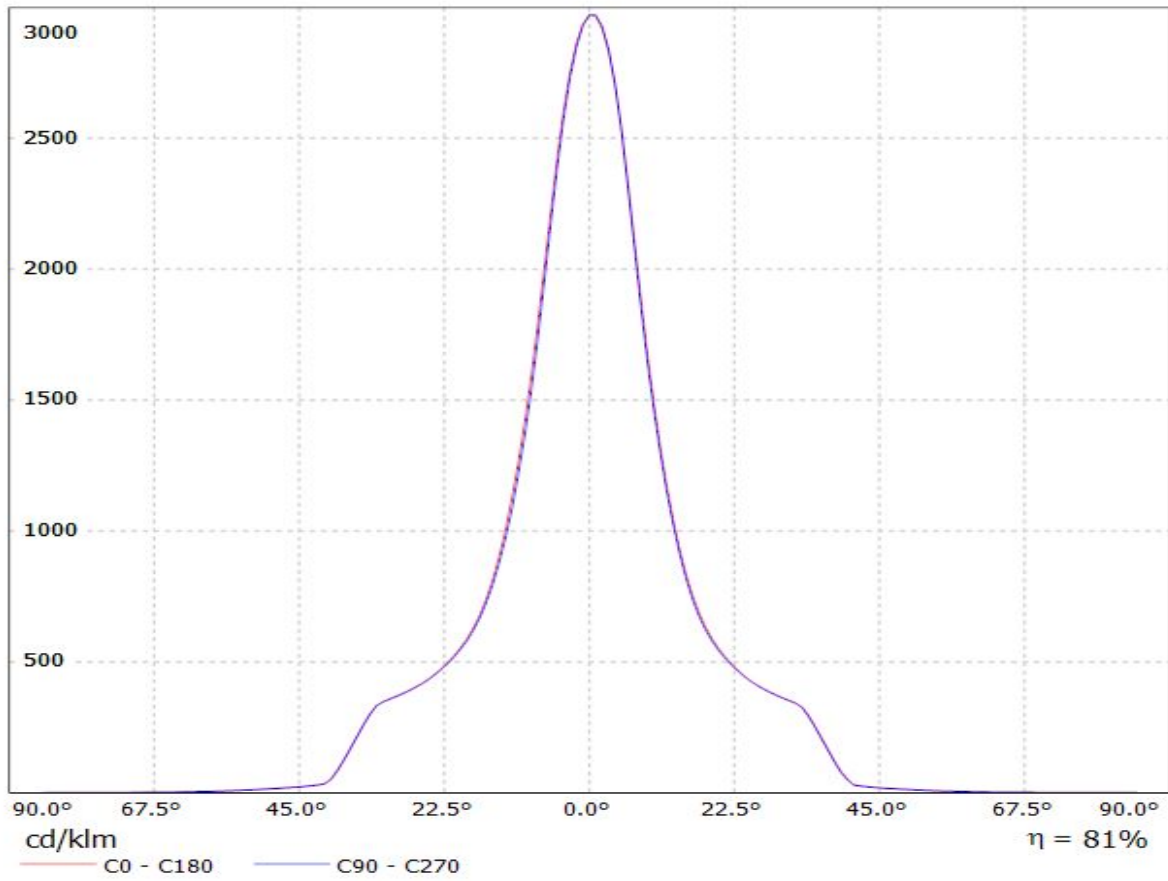
1

Luminaire: LEDiL Oy F13663\_ANGELA-M-B\_(BXRA\_ES) Eff.82.2%  
Lamps: 1 x Bridgelux\_BXRA\_ES\_287.055lm@250mA\_P=4.09486W\_I=249.9mA

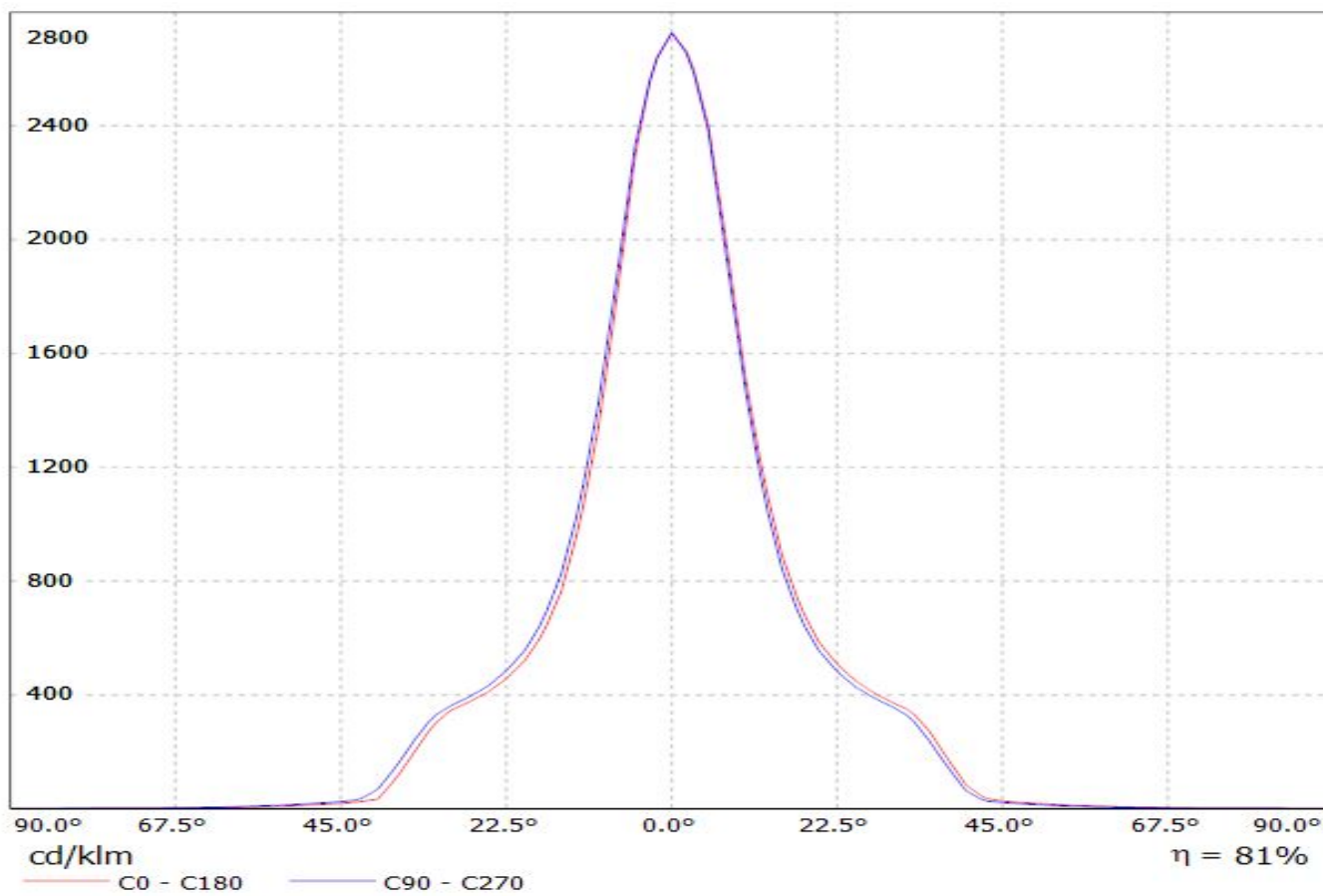


Luminaire: LEDiL Oy F13663\_ANGELA-M-B\_(V18\_Gen7)+BJB

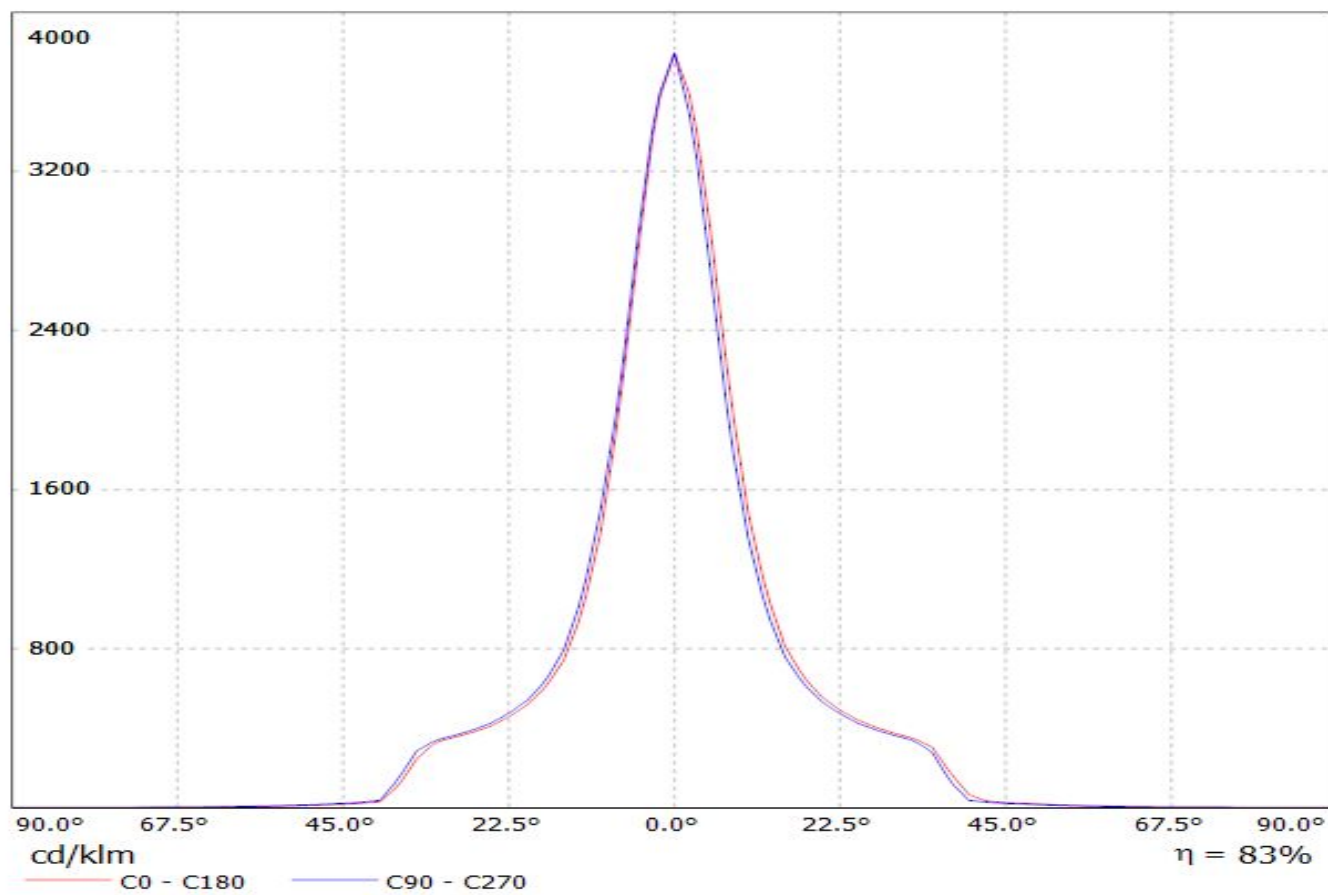
Lamps: 1 x Bridgelux\_V18\_Gen7\_(BXRE-30E4000-B)+BJB\_47.319.2350\_1384.73lm@250mA\_P=8.09577W\_I=0.25A



Luminaire: LEDiL Oy F13663\_ANGELA-M-B\_(CLL040) Eff.81.0%  
Lamps: 1 x Citizen\_CLL040\_1011.32lm@250mA\_P=8.24545W\_I=249.9mA

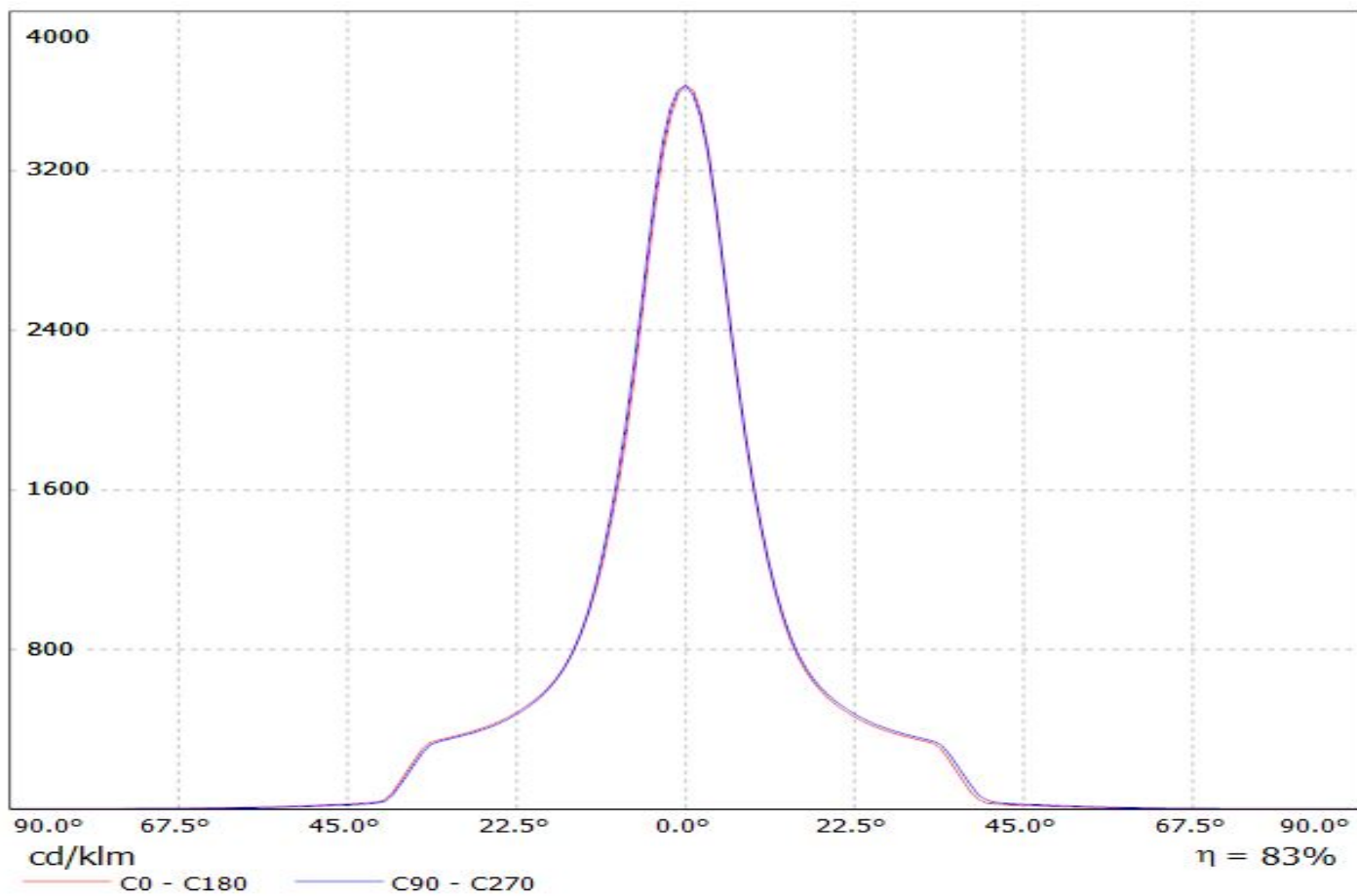


Luminaire: LEDiL Oy F13663\_ANGELA-M-B\_(CLL030) Eff.82.7%  
Lamps: 1 x Citizen\_CLL030\_1040.57lm@250mA\_P=8.45923W\_I=249.8mA



Luminaire: LEDiL Oy F13663\_ANGELA-M-B\_(CLU034)

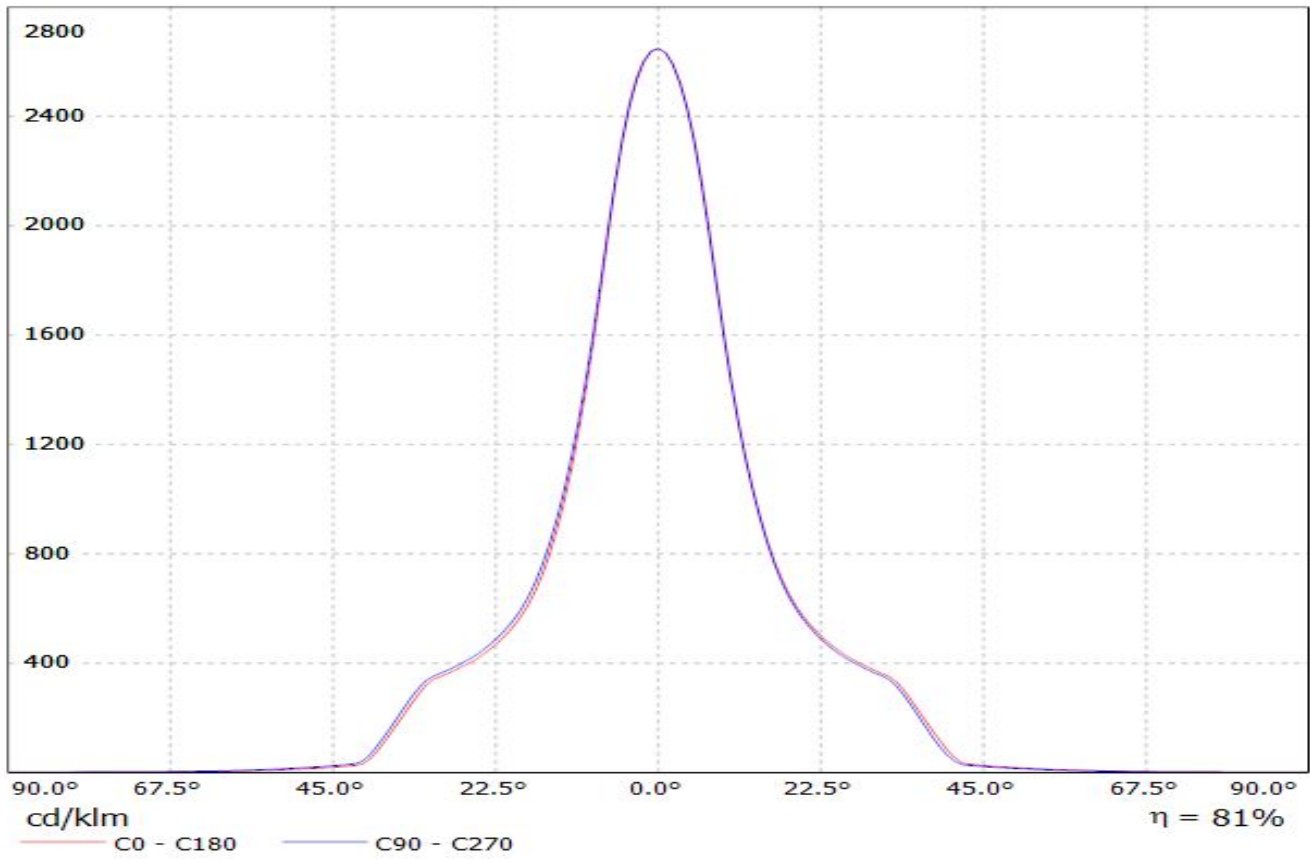
Lamps: 1 x Citizen\_CLU034\_(CLU034-1205B8-303M1A2)\_1159.11lm@250mA\_P=8.46586W\_I=249.9mA



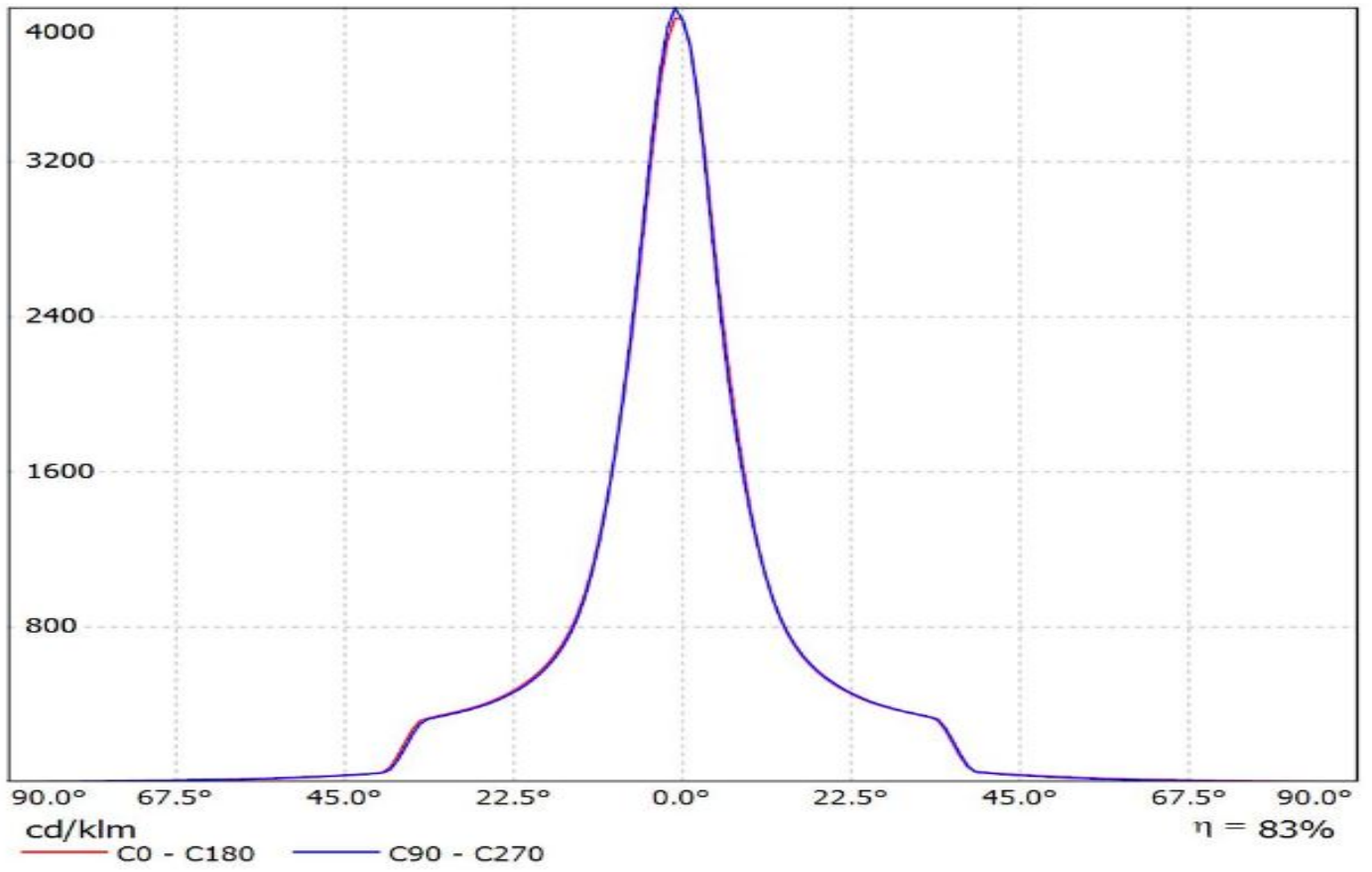


Luminaire: LEDiL Oy F13663\_ANGELA-M-B\_(CLU044)

Lamps: 1 x Citizen\_CLU044\_(CLU044-1212B8-303M1A2)\_1300.9lm@250mA\_P=8.14849W\_I=249.9mA

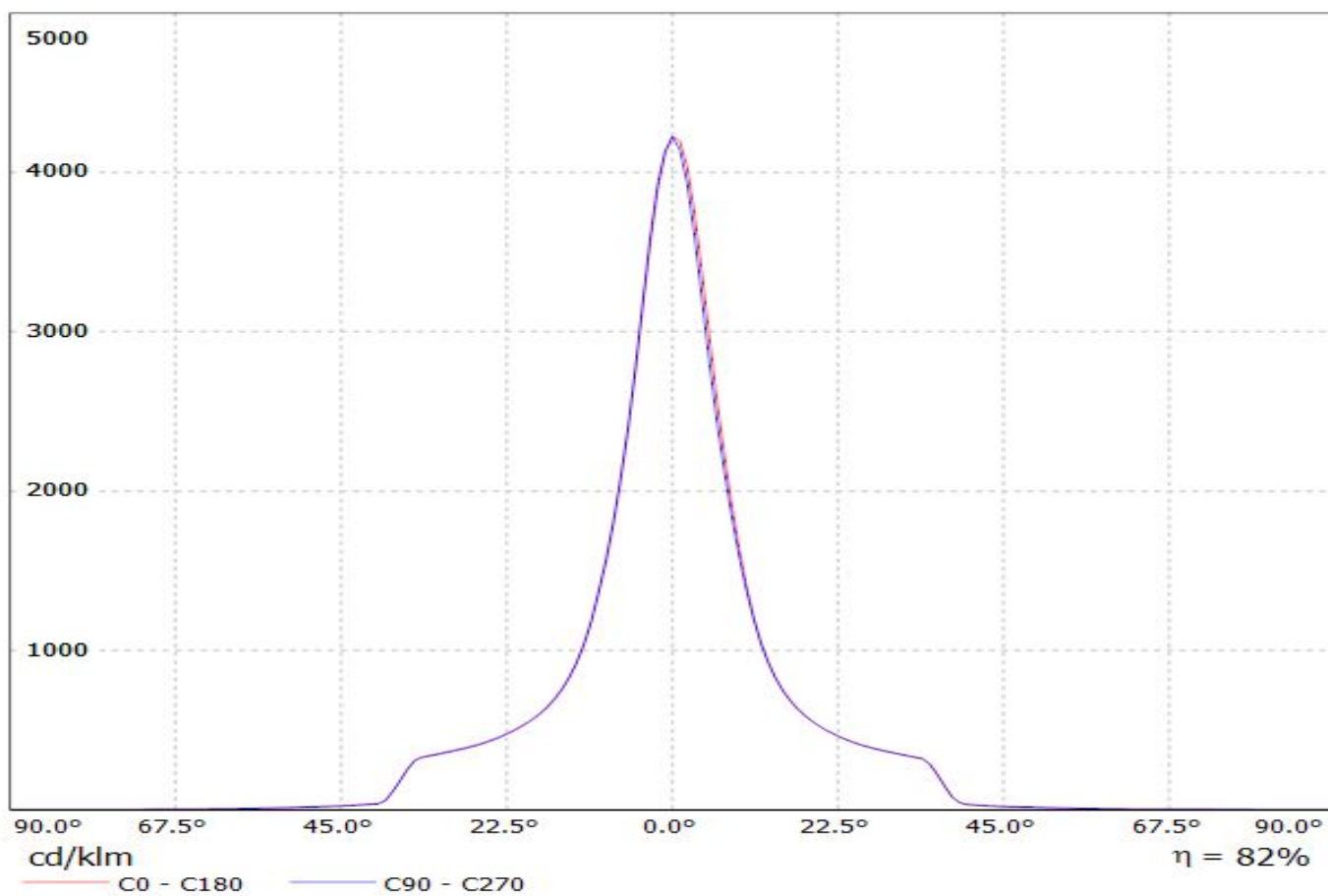


Luminaire: Ledil F13663\_ANGELA-M-B\_(CITIZEN\_CLU720)  
Lamps: 1 x CITIZEN\_CLU720\_(CLU720-1206B8-273M2)  
\_1320.42lm@250mA\_CCT=2700K\_P=8.35W\_I=0.25A

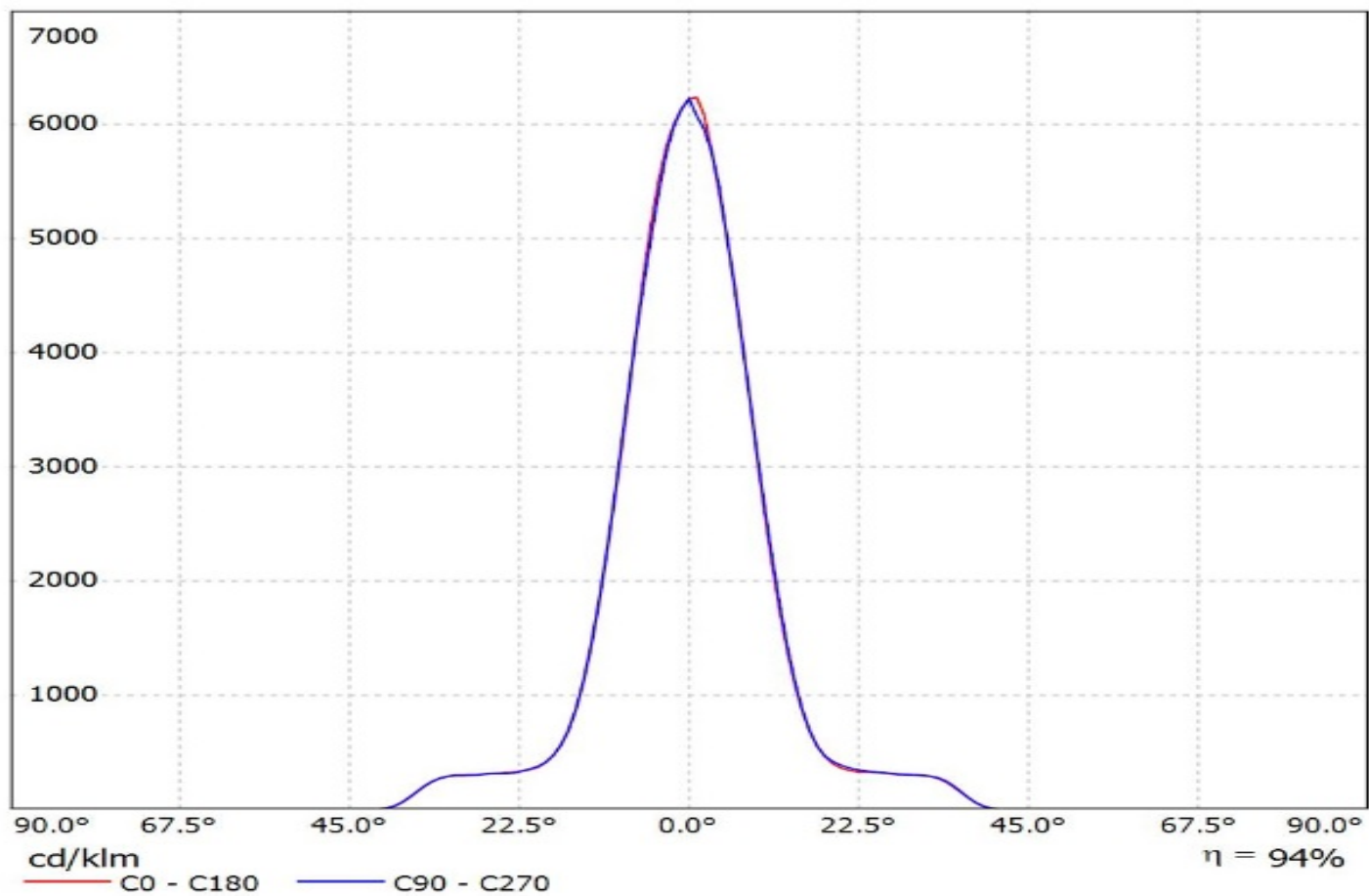


Luminaire: LEDiL Oy F13663\_ANGELA-M-B\_(CITIZEN\_CLU720)

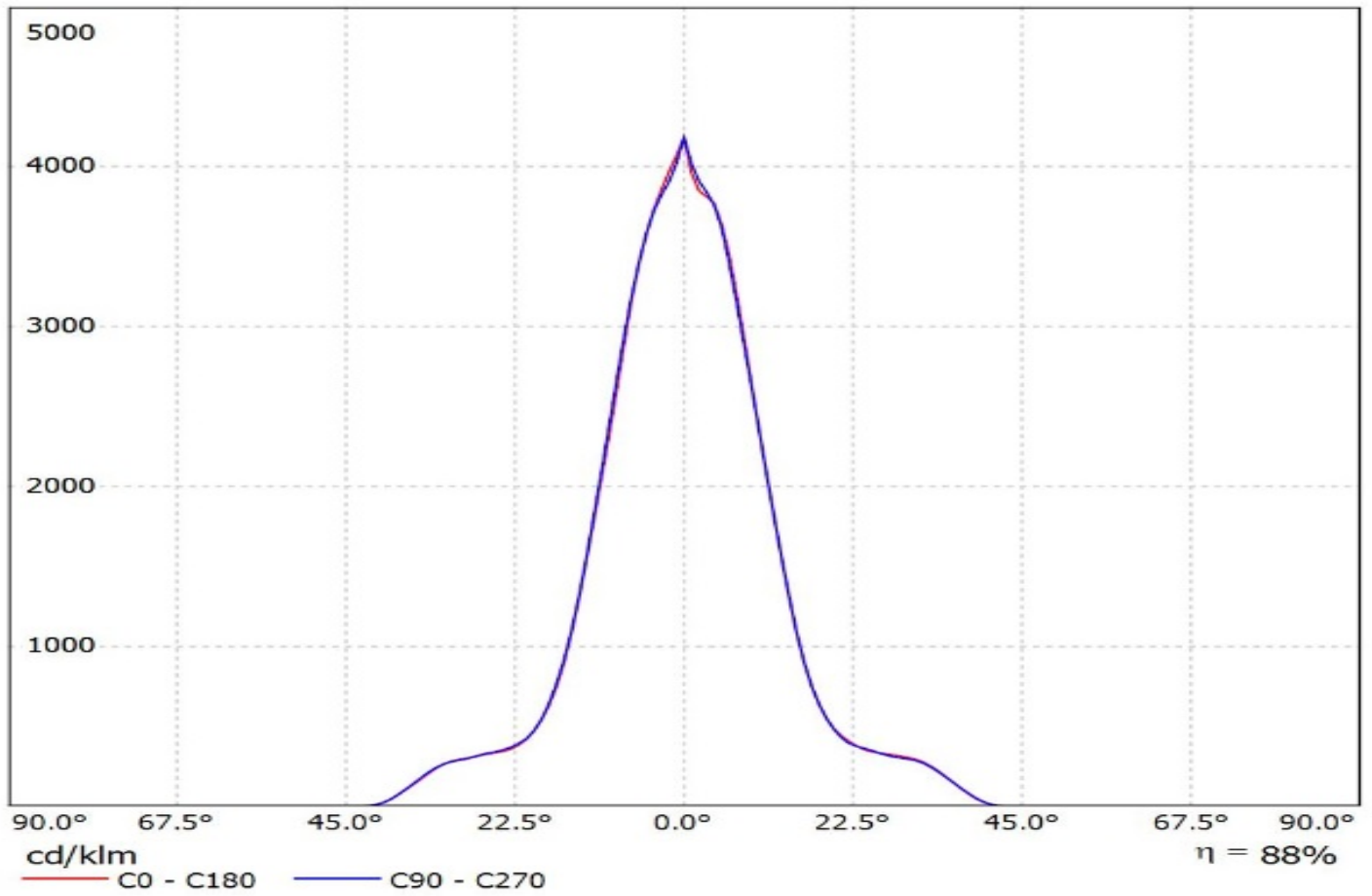
Lamps: 1 x CITIZEN\_CLU720\_(BJB: 47.319.2020)\_1214.68lm@250mA\_CCT=2700K\_P=8.31842W\_I=0.25A



Luminaire: Ledil Oy F13663\_ANGELA-M-B\_(CLU038)\_(47\_319\_2021)\_SIMULATED  
Lamps: 1 x Citizen CLU038-1210C4-303M2K1 + BJB 47.319.2021 connector

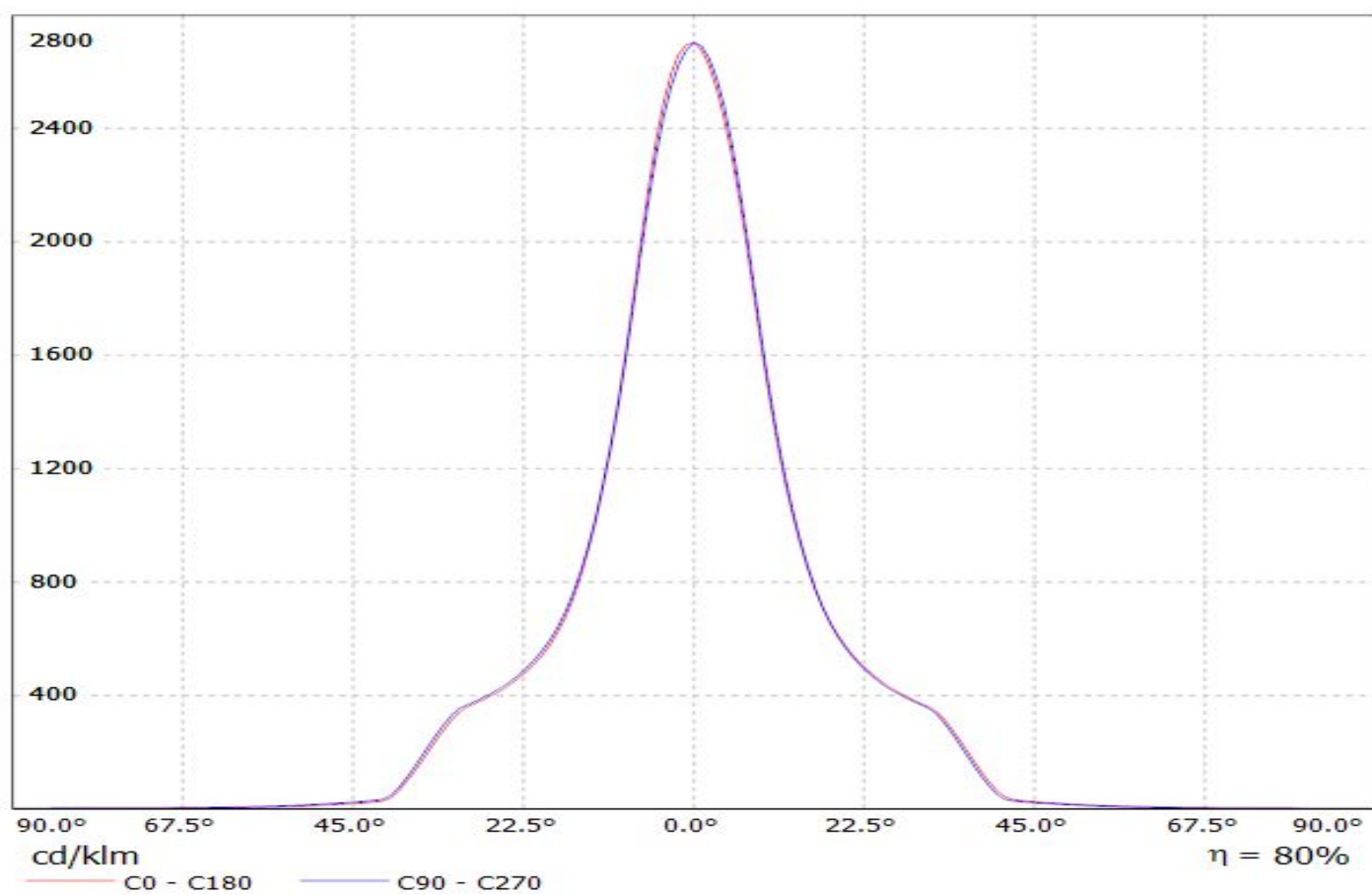


Luminaire: Ledil Oy F13663\_ANGELA-M-B\_(CLU048)\_(47\_319\_2030)\_SIMULATED  
Lamps: 1 x Citizen CLU048-1818C4-303M2K1 + BJB47.319.2030 connector



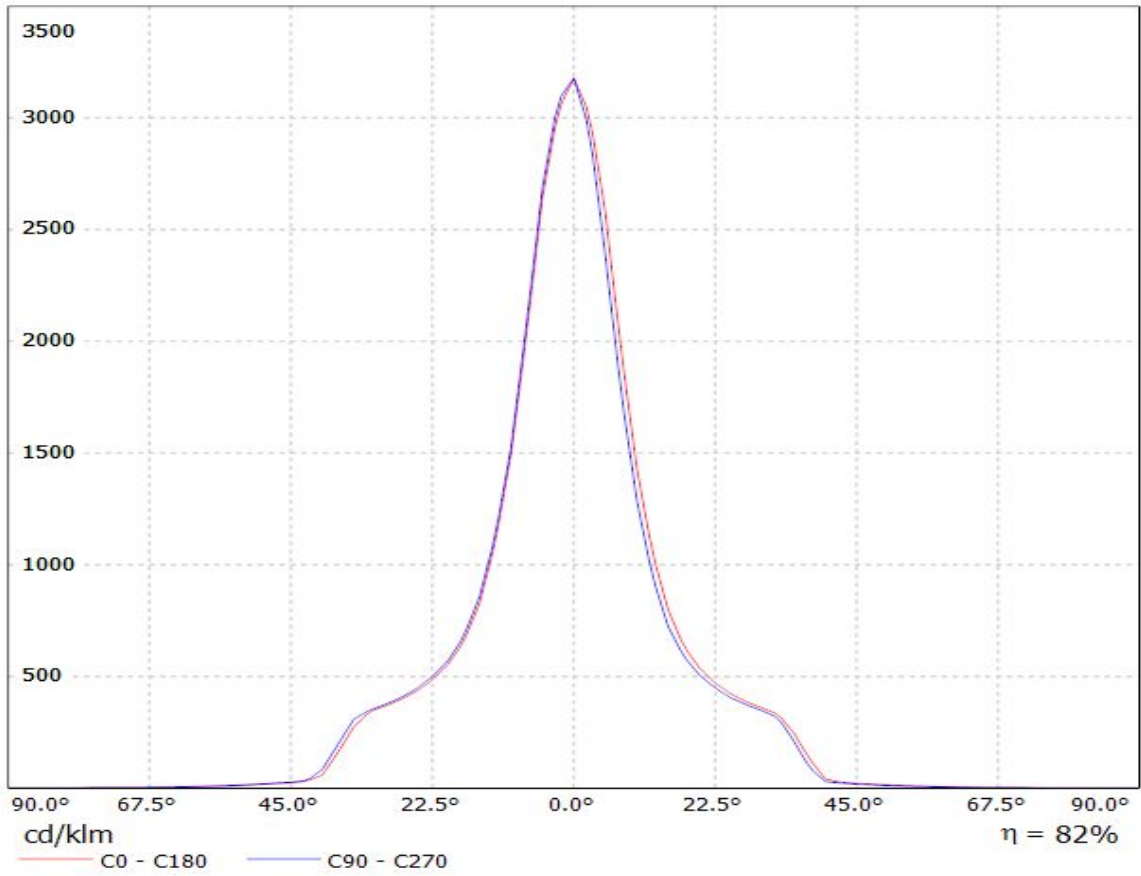
Luminaire: LEDiL Oy F13663\_ANGELA-M-B\_(CXA30)

Lamps: 1 x Cree\_CXA30\_(CXA3050-3C0-Y2-N0H)\_1395.36lm@250mA\_P=8.20318W\_I=249.8mA

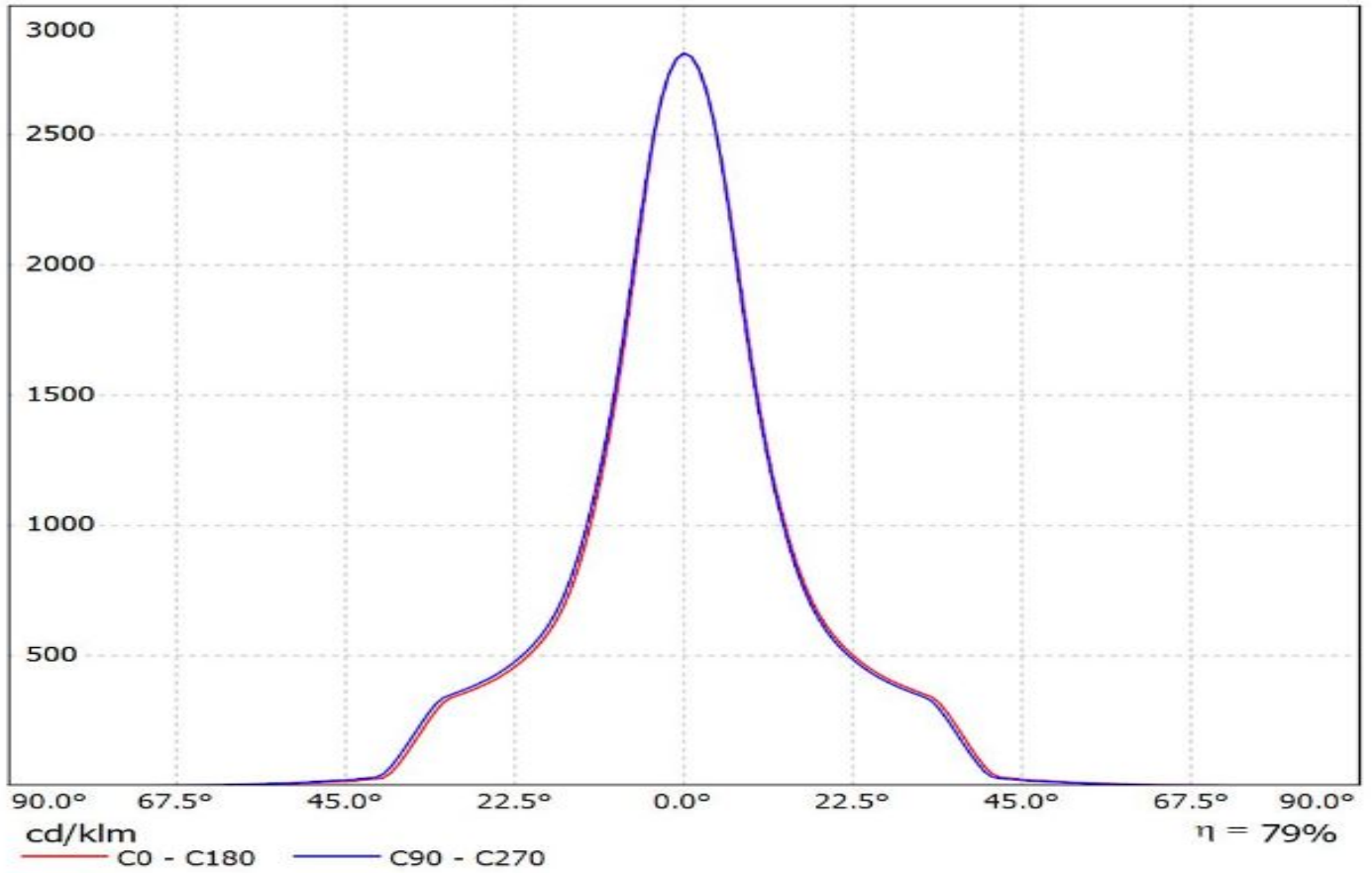


Luminaire: LEDiL Oy F13663\_ANGELA-M-B\_(CXA2590)

Lamps: 1 x CREE\_CXA2590\_(CXA2590-30F-Z4-RPH-00001)\_837.275lm@100mA\_CCT=3000K\_P=6.36316W\_I=100.1mA



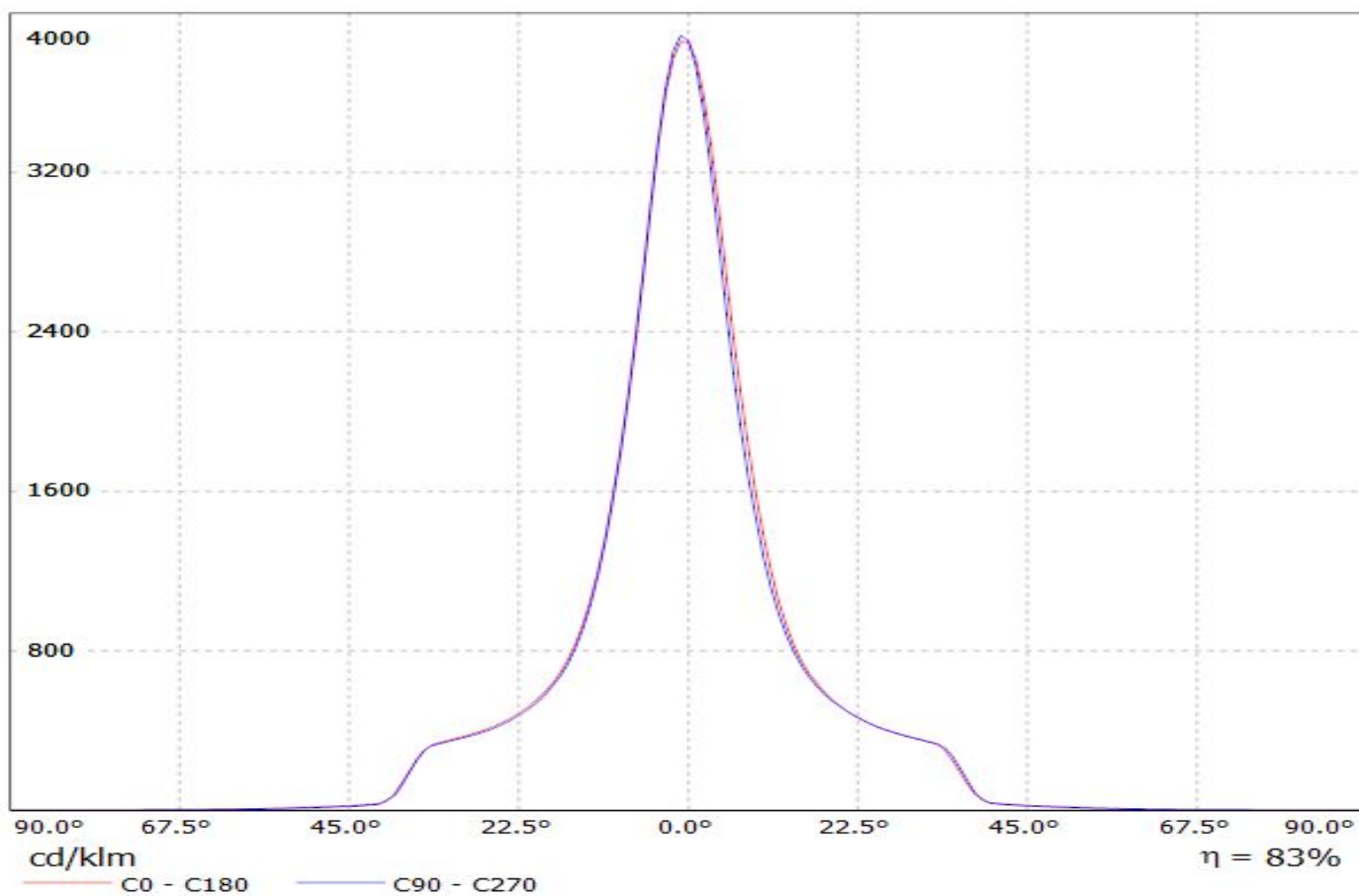
Luminaire: Ledil F13663\_ANGELA-M-B (CXB2540 +\_BJB\_47.319.2140)  
Lamps: 1 x CREE\_CXB2540\_(-40G-W4-N0H-00002)  
+\_BJB\_47.319.2140\_1412.99lm@250mA\_CCT=40000K\_P=8.1310W\_I=0.25A



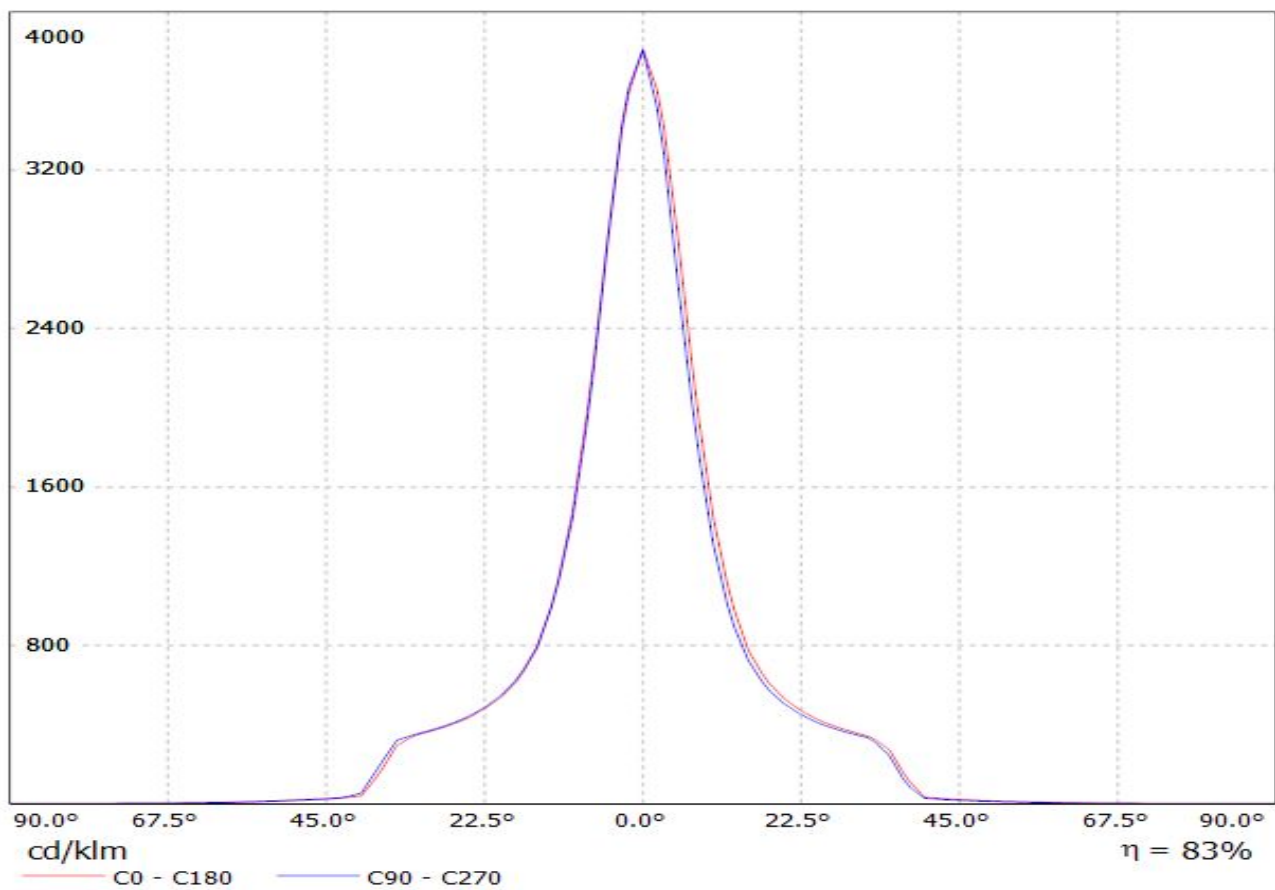


Luminaire: LEDiL Oy F13663\_ANGELA-M-B\_(COB-10W) Eff.83.2%

Lamps: 1 x LG\_COB-10W\_1065.85lm@250mA\_CCT=5090K\_P=9.10871W\_I=249.8mA

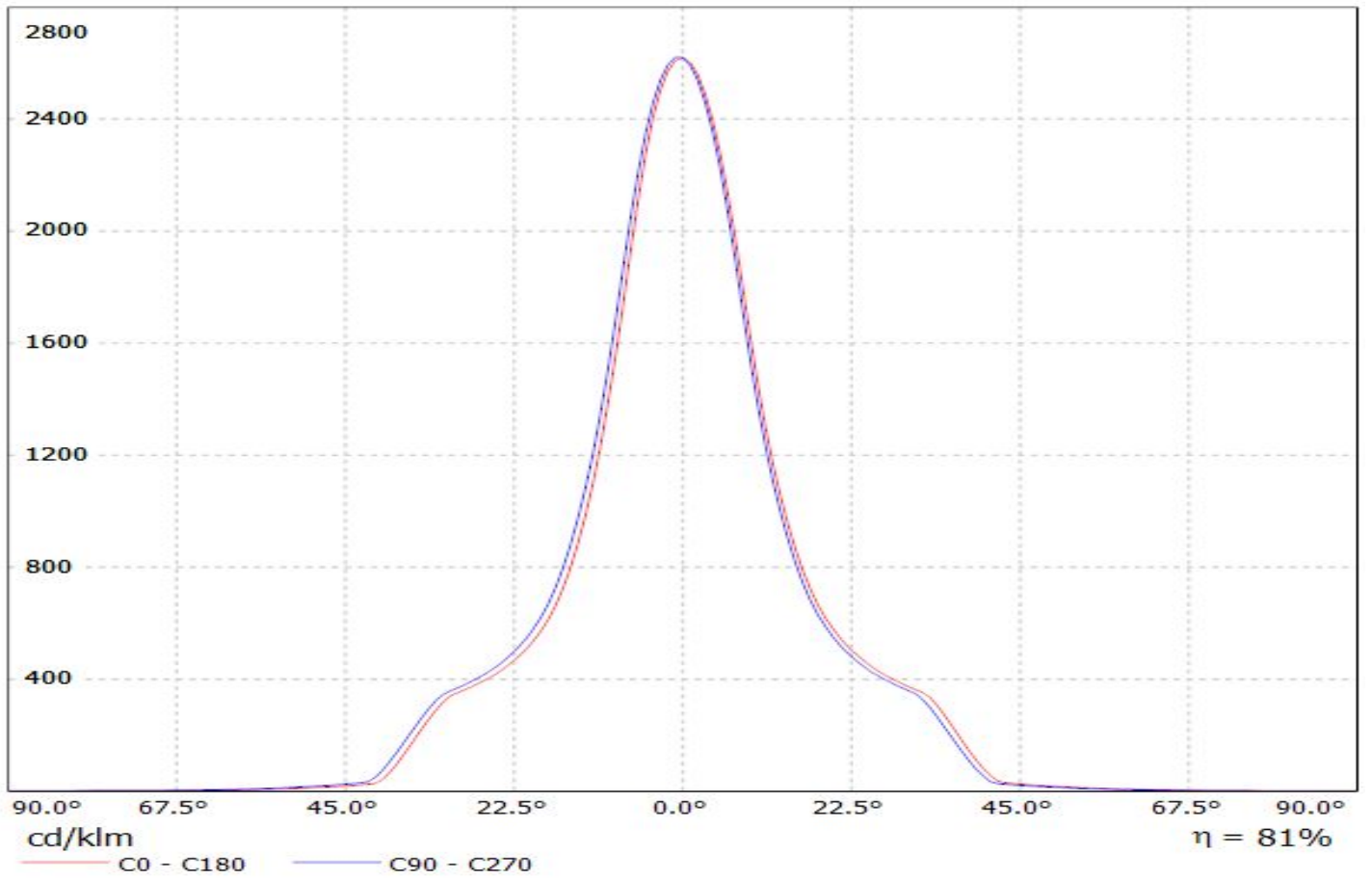


Luminaire: LEDiL Oy F13663\_ANGELA-M-B\_(LG\_COB\_10W)  
Lamps: 1 x LG\_COB\_10W\_(LEMWM18580LG00)\_917.757lm@250mA\_P=9.31304W\_I=249.8mA

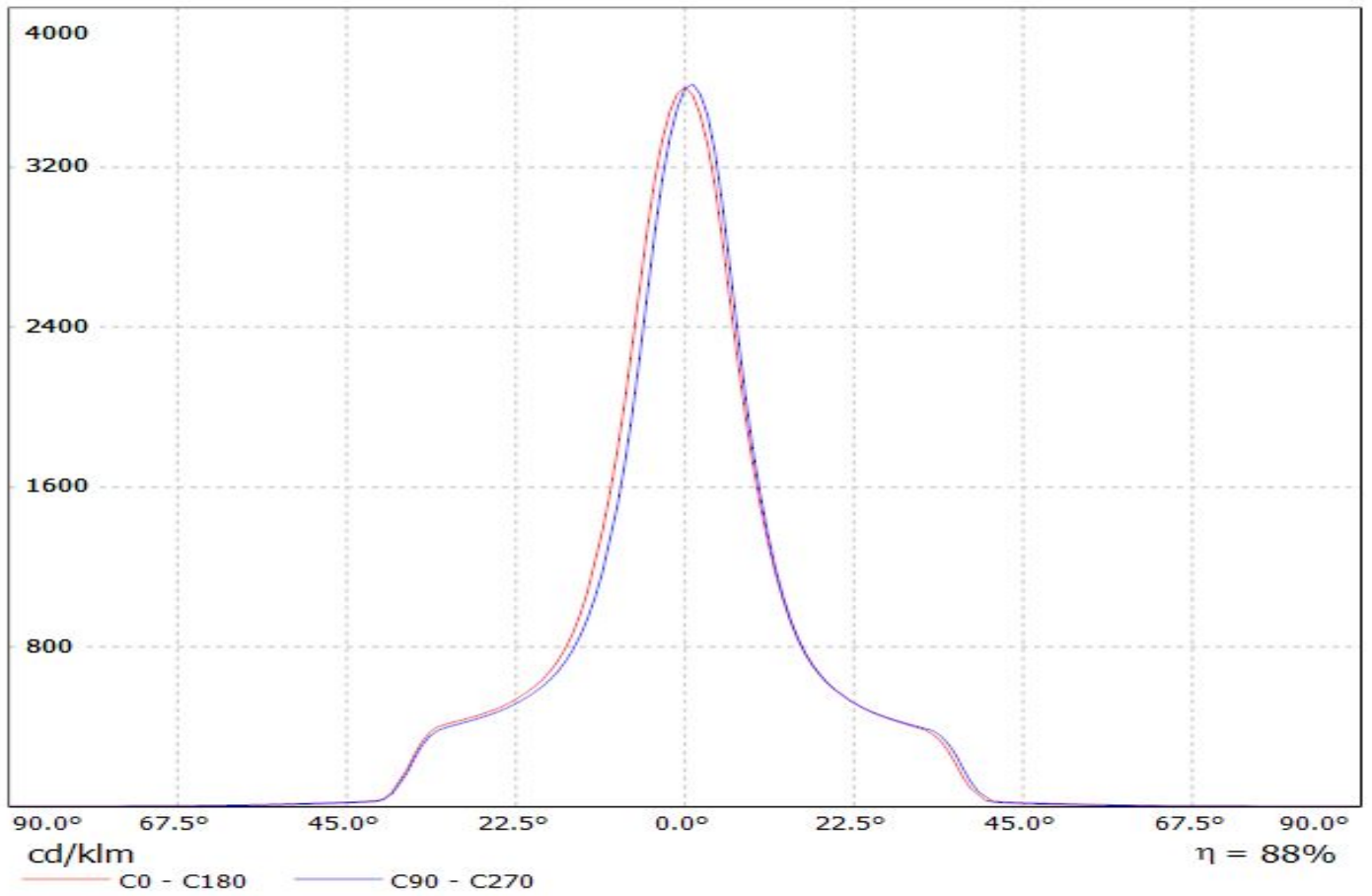


Luminaire: LEDiL Oy F13663\_ANGELA-M-B\_(COB\_40W)

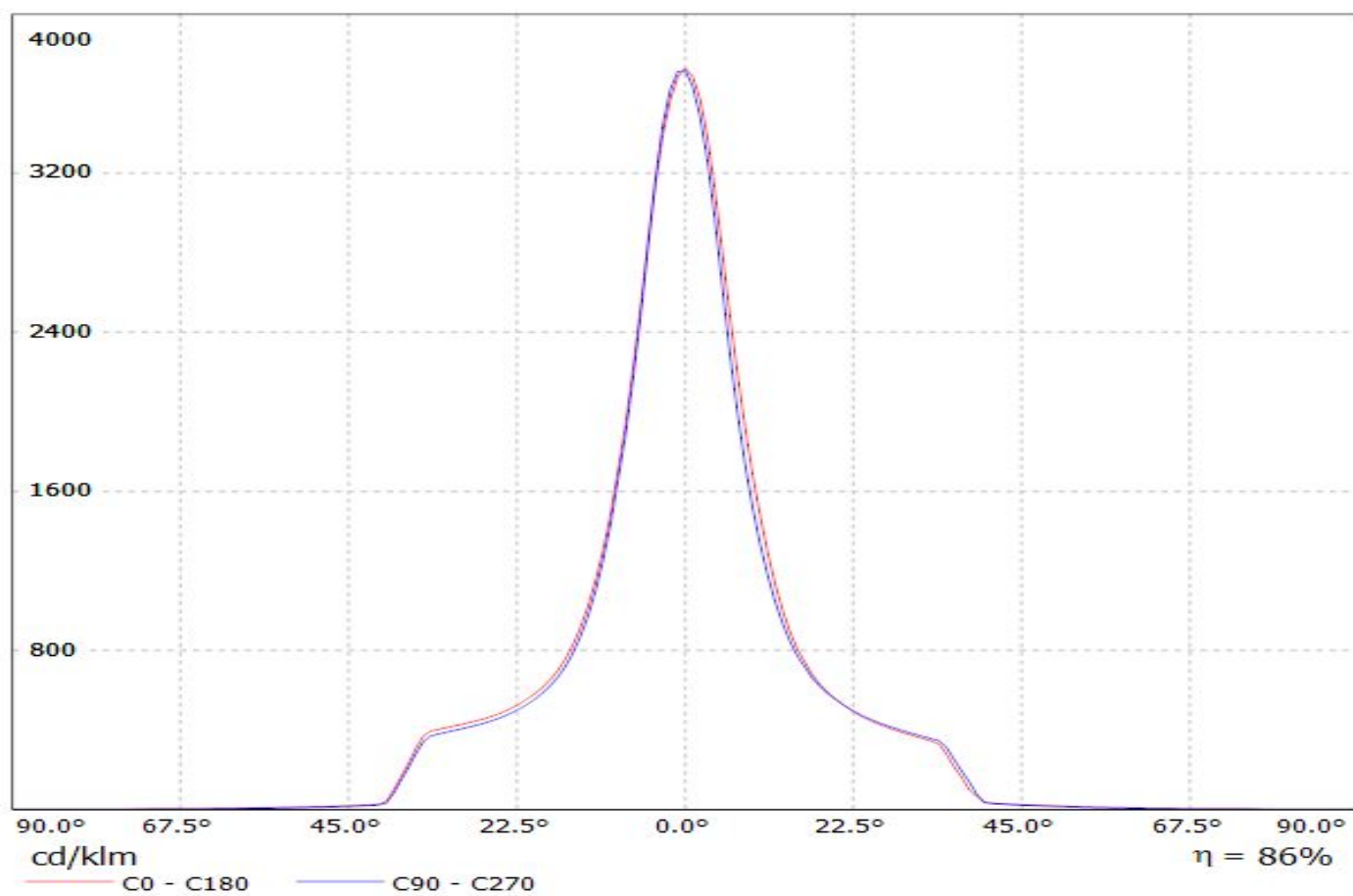
Lamps: 1 x LG\_COB\_40W\_1163.31lm@250mA\_CCT=3000K\_P=8.04906W\_I=249.8mA



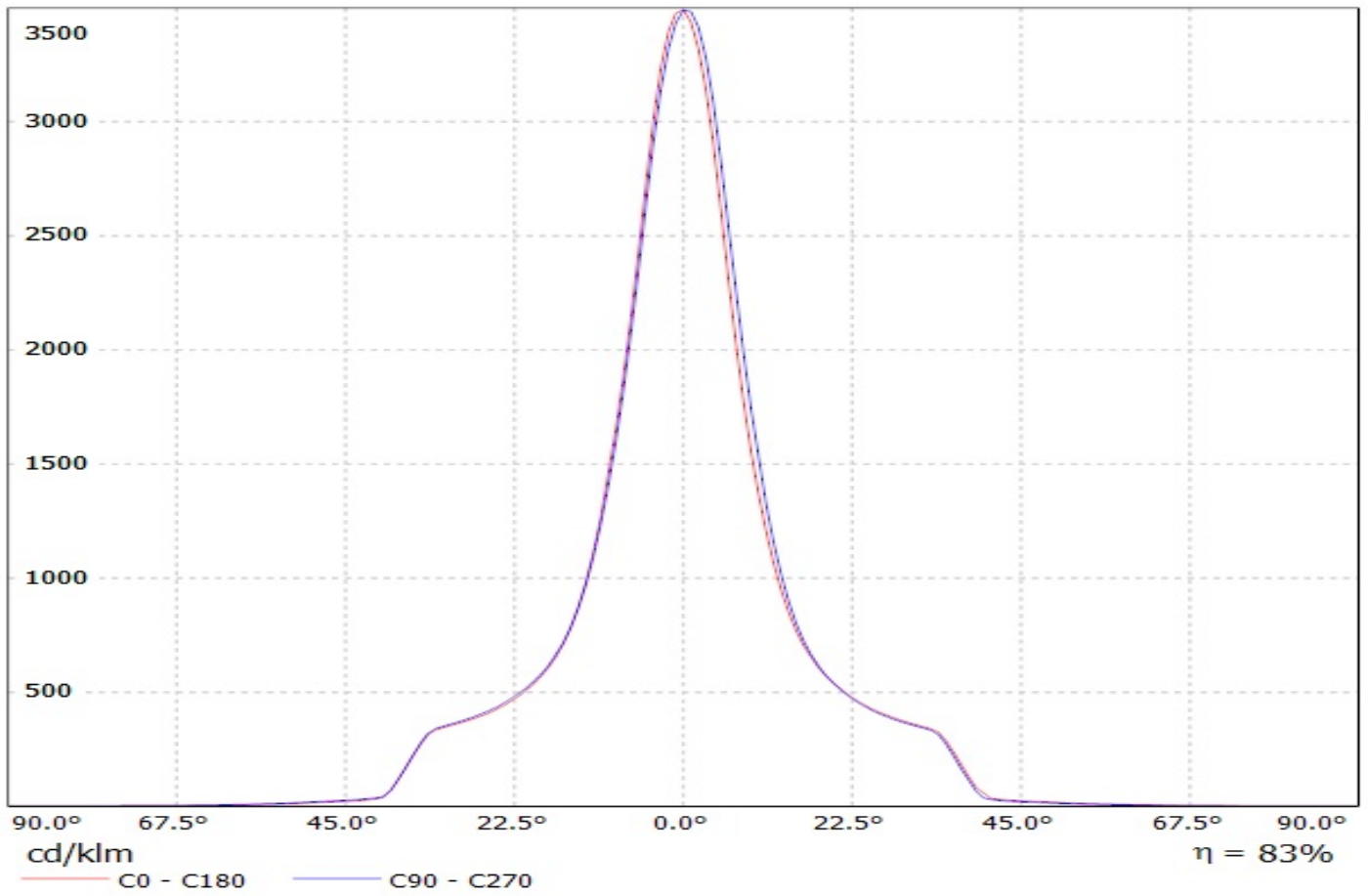
Luminaire: LEDiL Oy F13663\_ANGELA-M-B\_(K16) Eff.87.9%  
Lamps: 1 x Luxeon\_K16\_1224.2lm@250mA\_P=10.8991W\_U=249.9mA



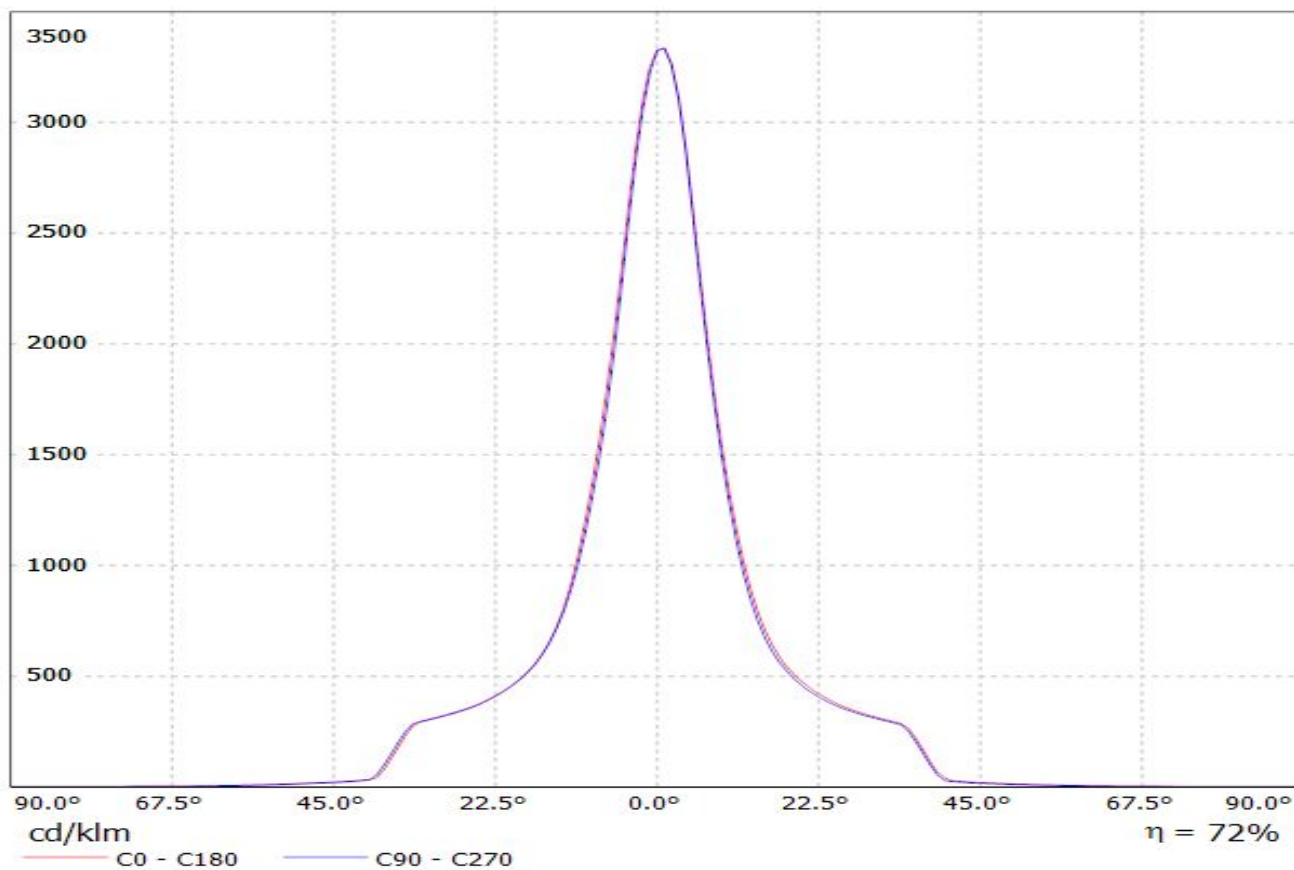
Luminaire: LEDiL Oy F13663\_ANGELA-M-B\_(K12) Eff.86.5%  
Lamps: 1 x Luxeon\_K12\_933.514lm@250mA\_P=8.21721W\_I=249.9mA



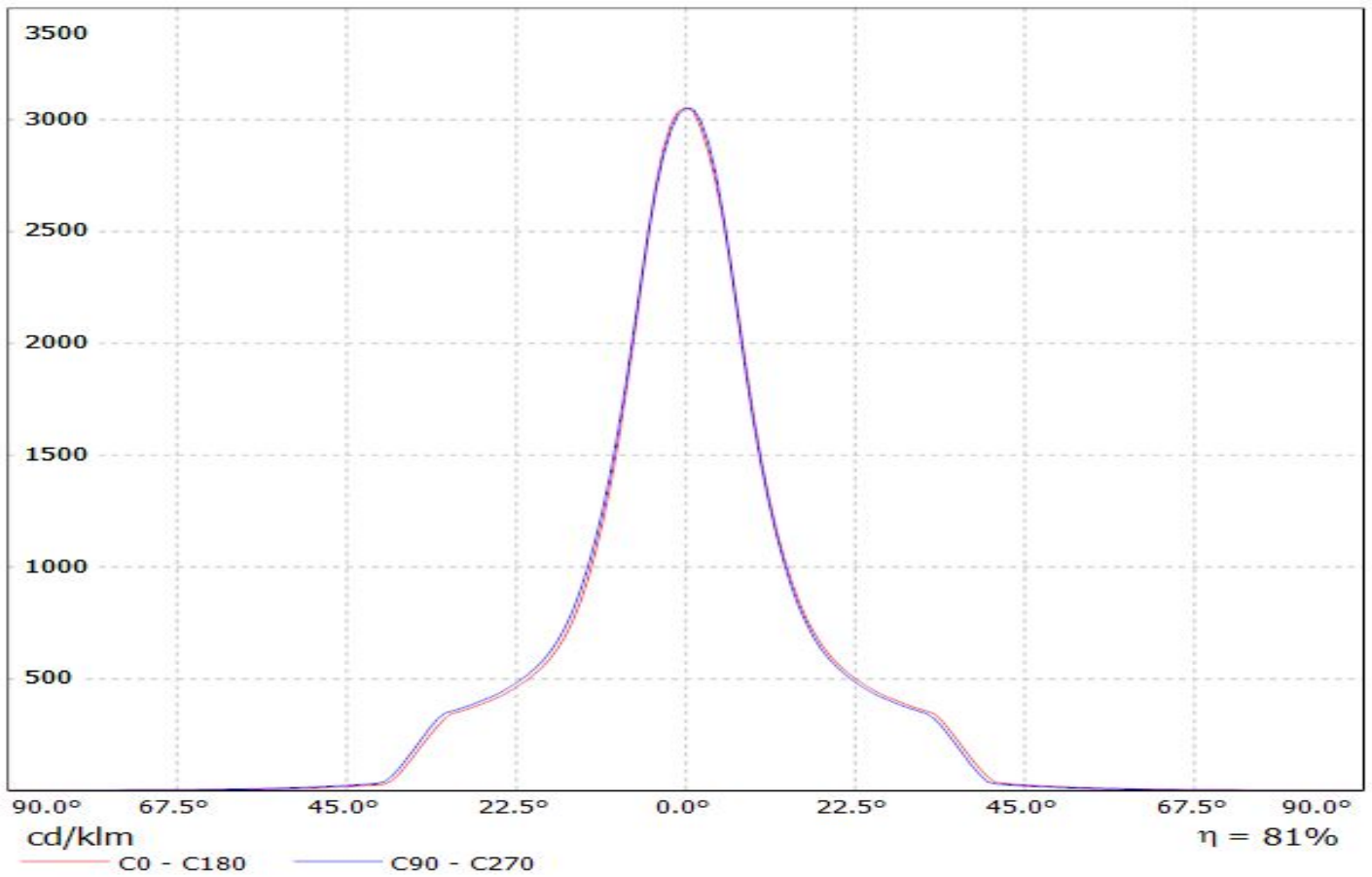
Luminaire: LEDiL Oy F13663\_ANGELA-M-B\_(Luxeon\_CoB\_1208)  
Lamps: 1 x Luxeon\_CoB\_1208\_1045.92lm@250mA\_P=8.25314W\_I=249.8mA



Luminaire: LEDiL Oy F13663\_ANGELA-M-B\_(Luxeon\_CoB\_1205)  
Lamps: 1 x LUXEON\_COB\_1205\_(LHC1-3080-1205)\_1274.35lm@250mA\_CCT=3000K\_P=11.183W\_I=249.8mA



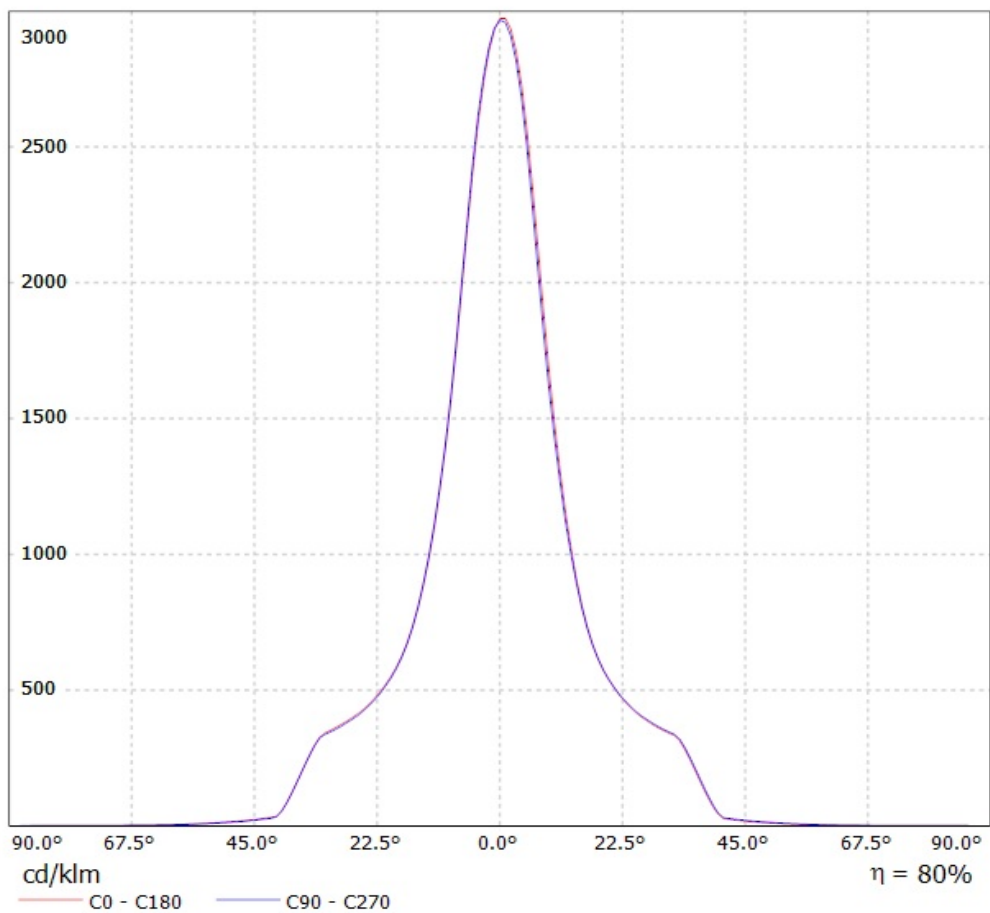
Luminaire: LEDiL Oy F13663\_ANGELA-M-B\_(Luxeon\_CoB\_1211)  
Lamps: 1 x LUXEON\_COB\_1211\_(LHC1-2790-1211)  
\_923.583lm@250mA\_CCT=2700K\_P=8.00909W\_I=249.8mA





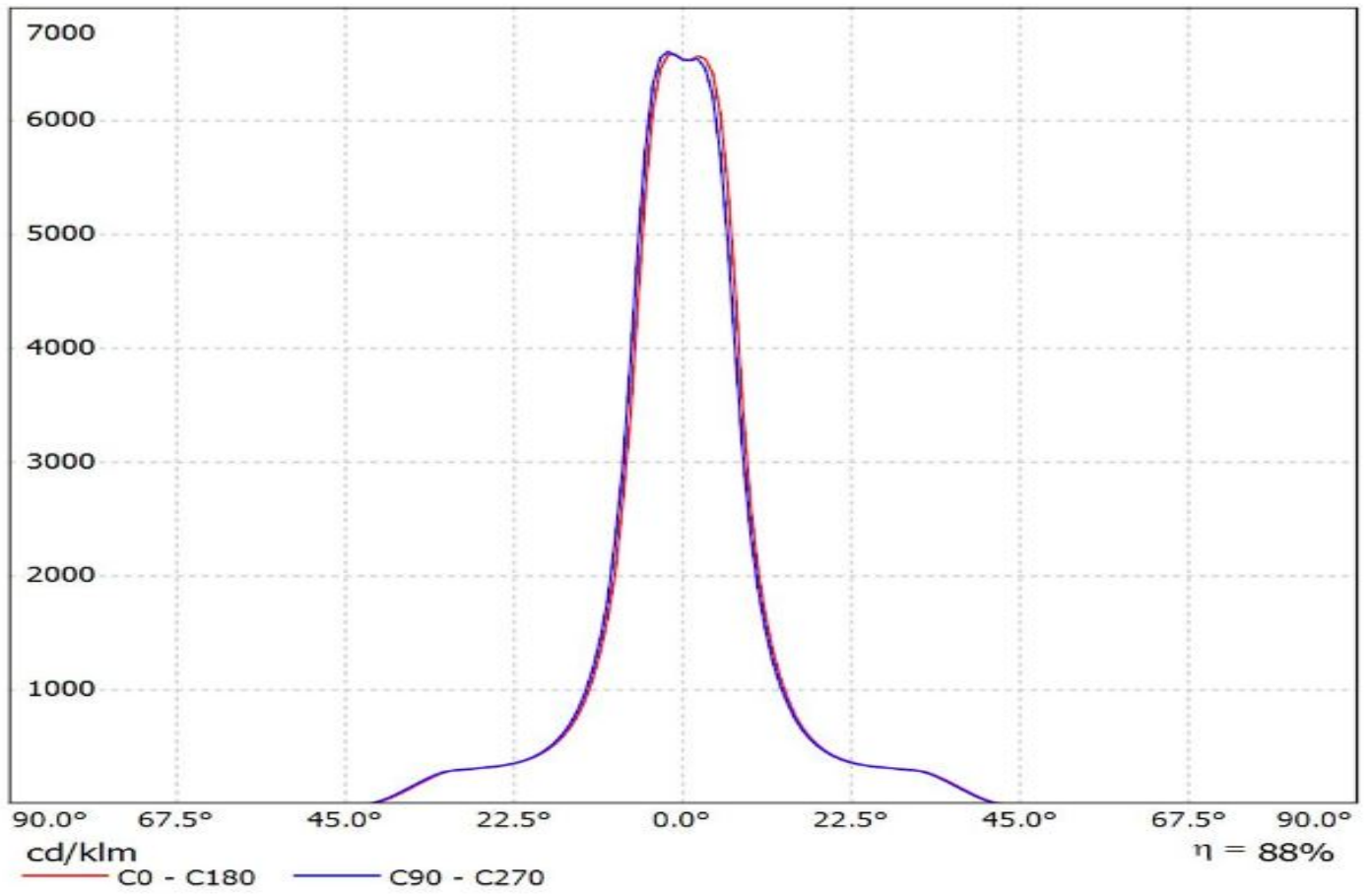
Luminaire: LEDiL Oy F13663\_ANGELA-M-B\_(Luxeon\_CoB\_1211)\_(BJB2030)

Lamps: 1 x Philips\_Lumileds\_Luxeon\_CoB\_1211\_(LHC1-5780-1211)\_(BJB2030)\_1332.46lm@250mA\_CCT(approx.)=5700K\_P=8.03332W\_I=0.2498A

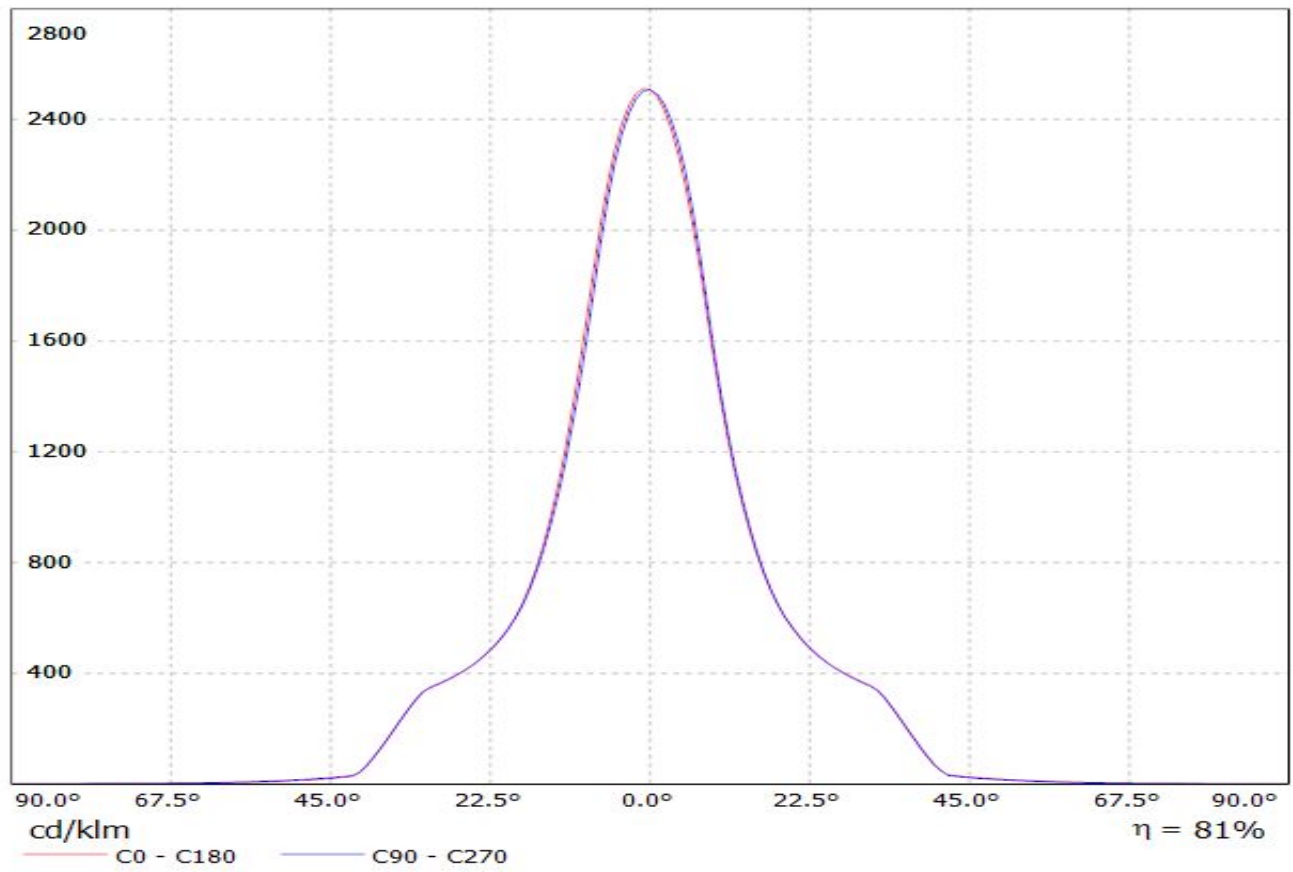


Luminaire: Ledil F13662\_ANGELA-S-B\_(CoB\_1216)

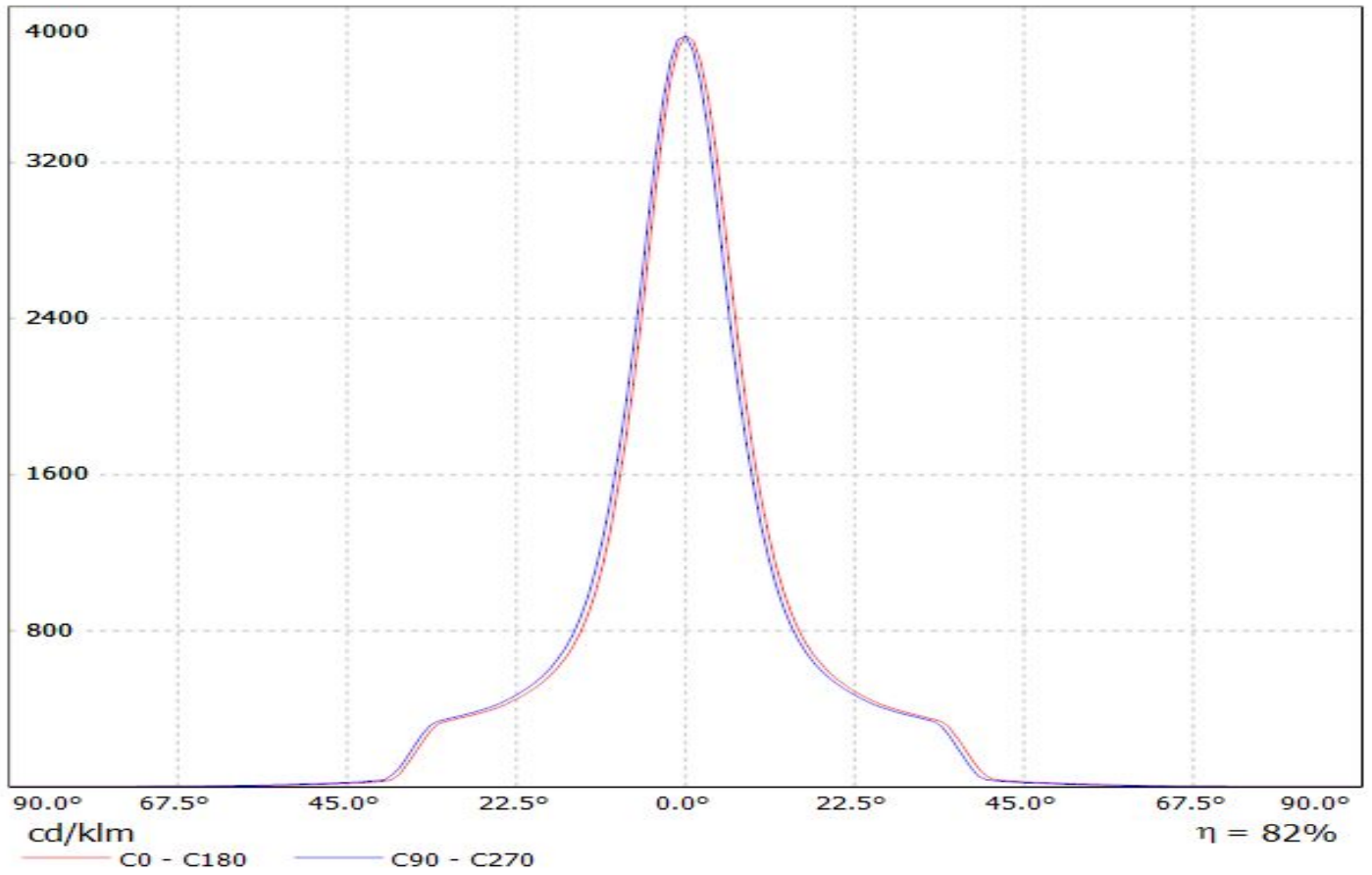
Lamps: 1 x Luxeon\_CoB\_1216\_(L2C2-40801216E2300)\_1478.53lm@250mA\_P=8.0068W\_I=0.25A



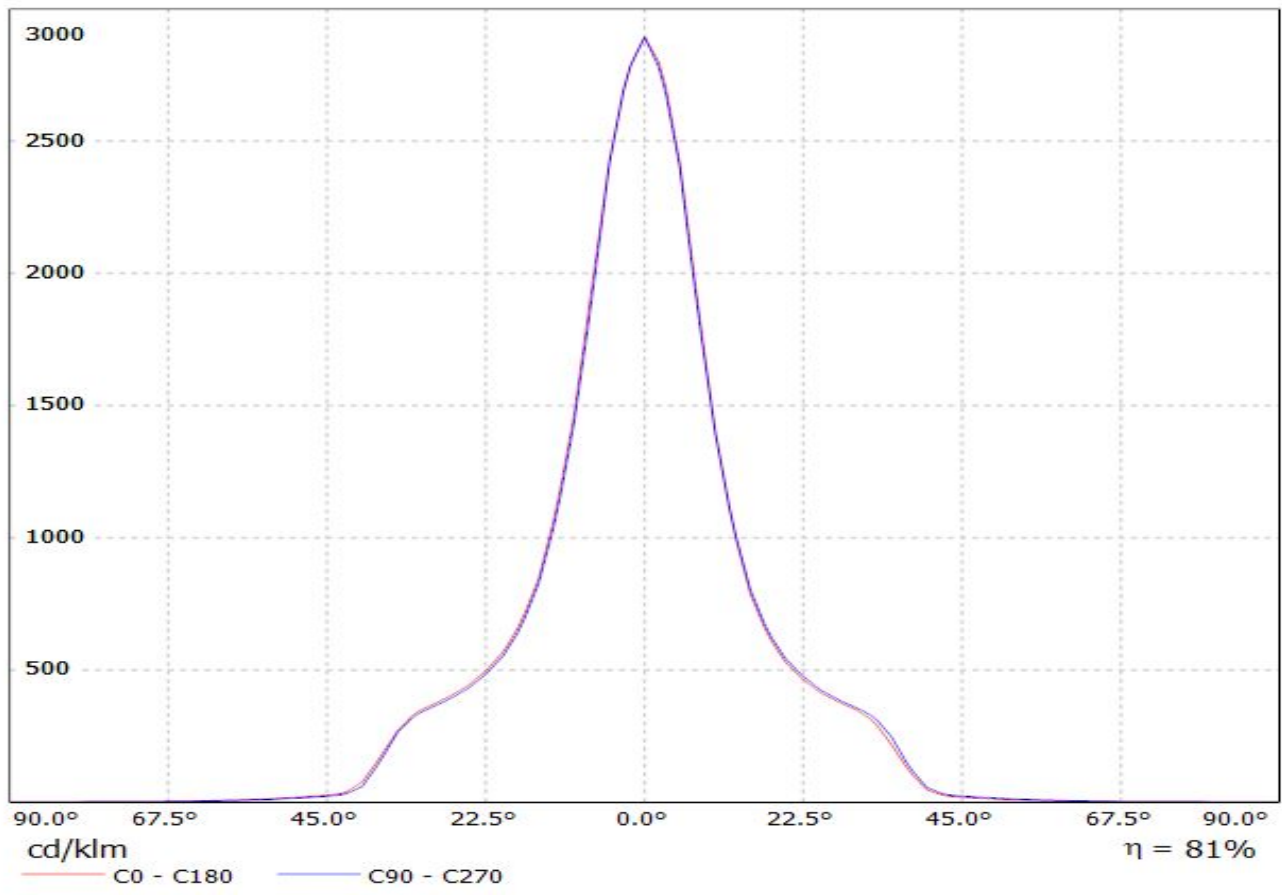
Luminaire: LEDiL Oy F13663\_ANGELA-M-B\_(CXM-22) Eff.80.7%  
Lamps: 1 x LUMINUS\_CXM-22\_1221.8lm@250mA\_P=8.00809W\_CCT=3000K\_I=249.8mA



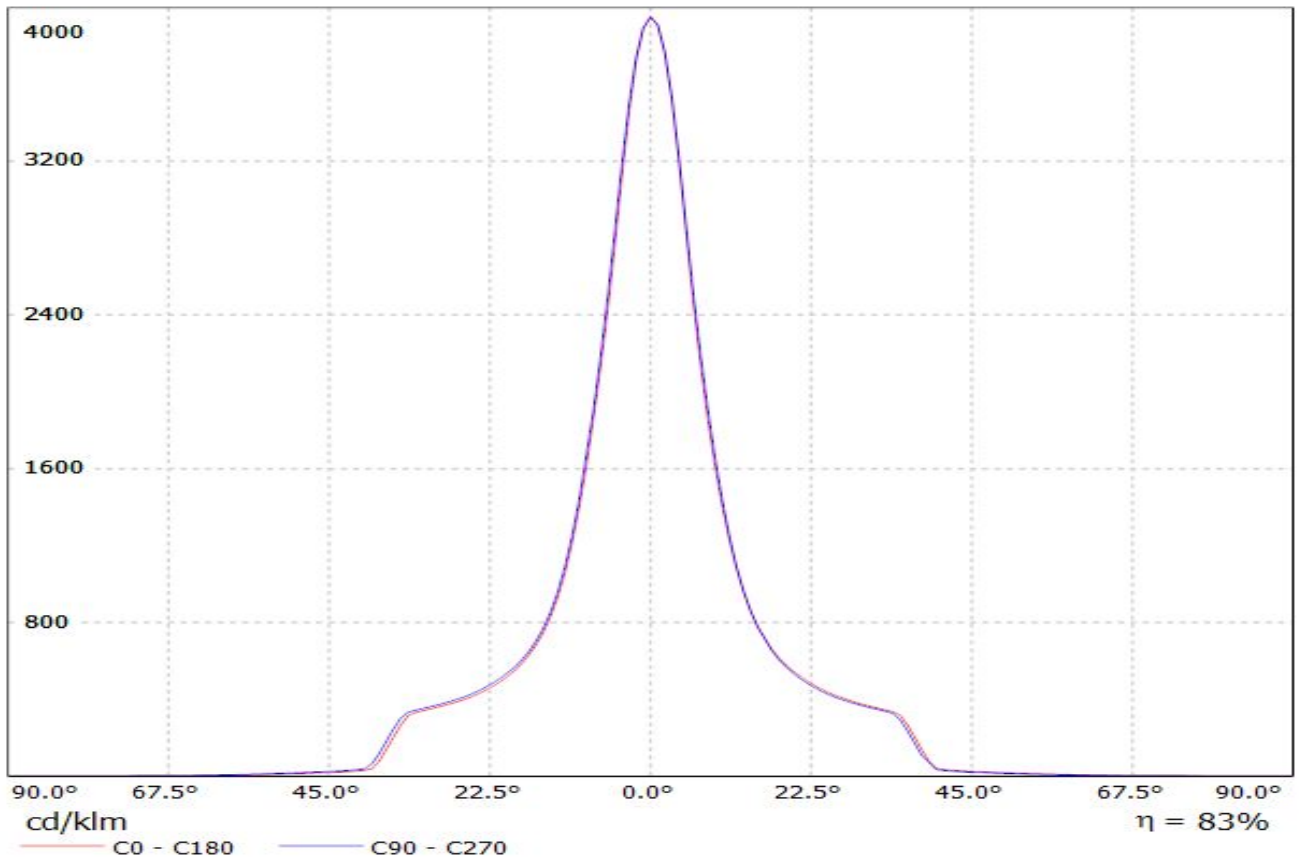
Luminaire: LEDiL Oy F13663\_ANGELA-M-B\_(CXM-14)  
Lamps: 1 x LUMINUS\_XNOVA\_CXM-14\_(AC00)  
\_1049.18lm@250mA\_CCT=3126K\_P=8.31834W\_I=249.8mA



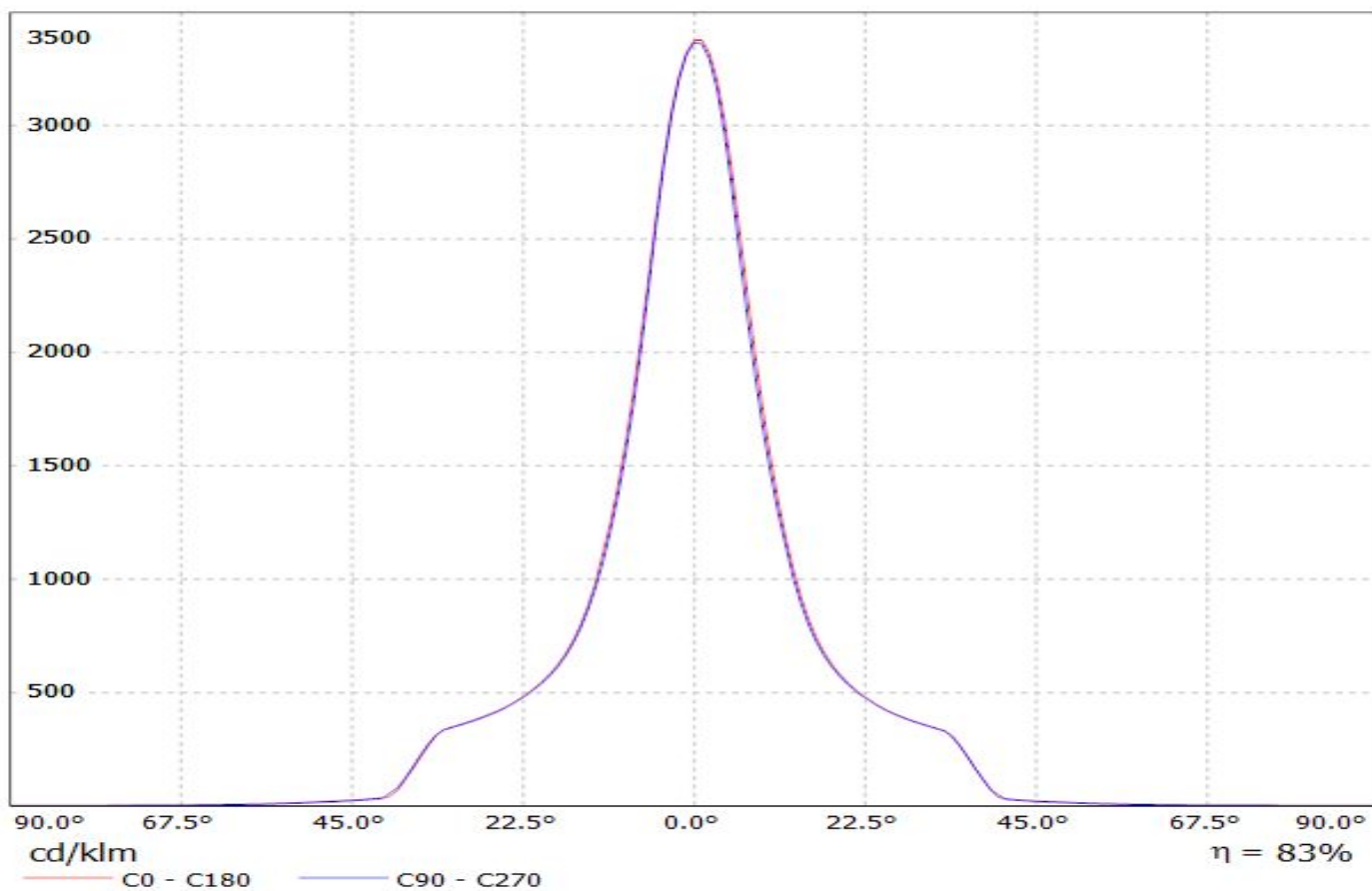
Luminaire: LEDiL Oy F13663\_ANGELA-M-B\_(E30) Eff.80.7%  
Lamps: 1 x Osram\_Solericq\_E30\_1364.86lm@250mA\_P=10.2445W\_I=249.8mA



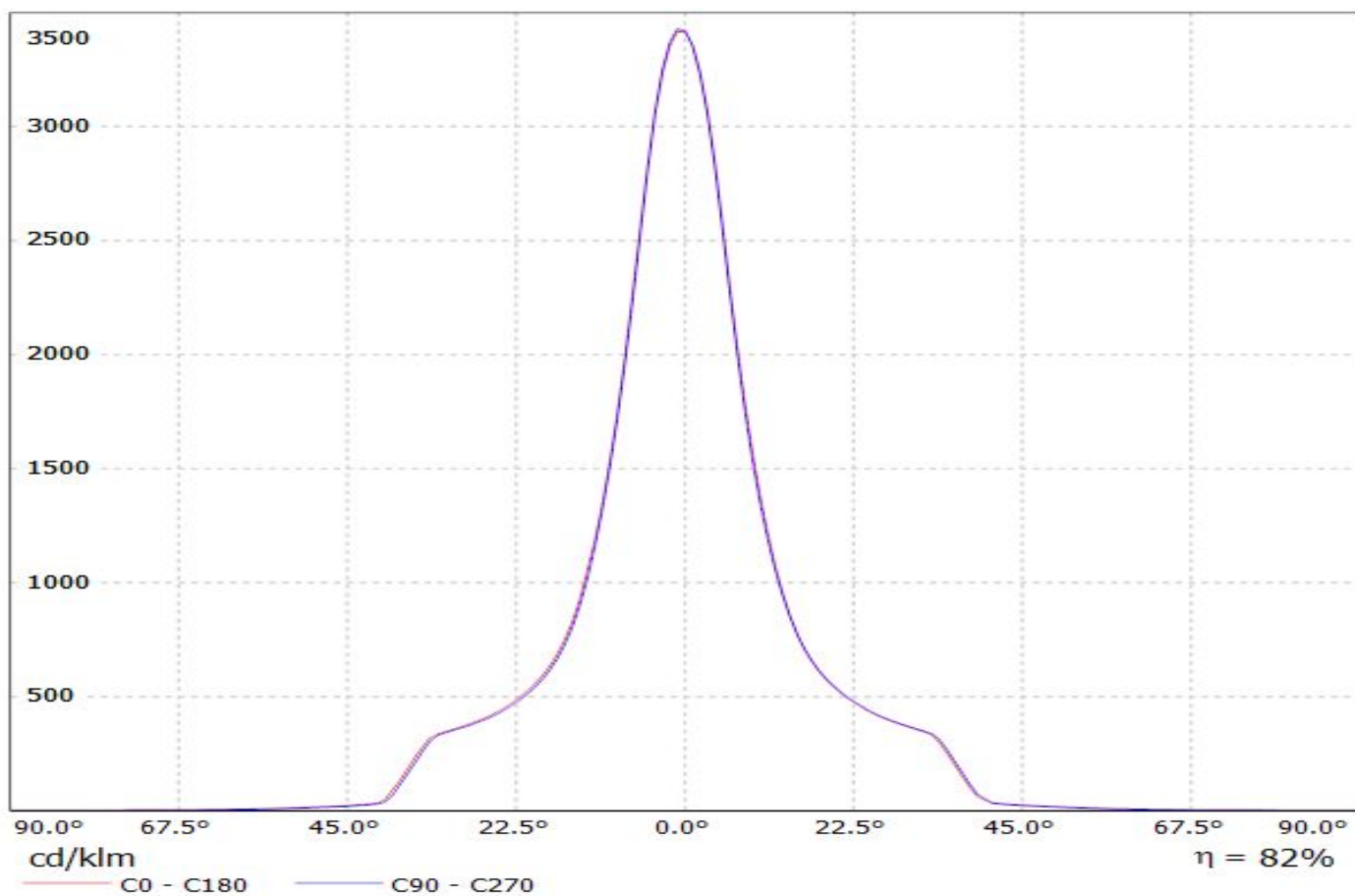
Luminaire: LEDiL Oy F13663\_ANGELA-M-B\_(S13) Eff.83.2%  
Lamps: 1 x Osram\_Soleriq\_S13\_901.003lm@250mA\_P=7.48151W\_I=249.9mA



Luminaire: LEDiL Oy F13663\_ANGELA-M-B\_(Soleriq S19) Eff.82.6%  
Lamps: 1 x OSRAM\_SOLERIQ\_S19\_(GW\_KAHJB1.EM)  
\_1445.44lm@250mA\_CCT=3000K\_P=10.558W\_I=249.8mA



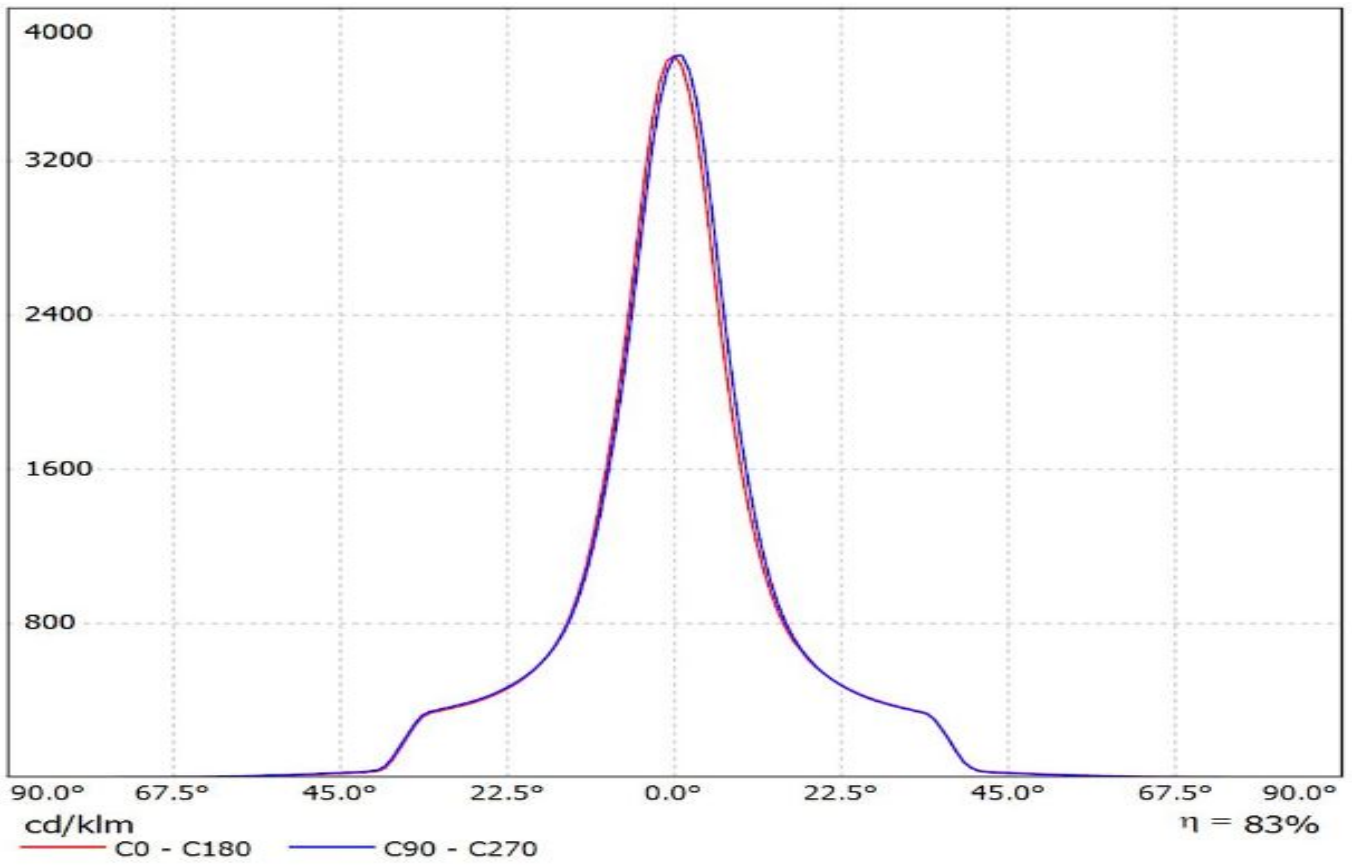
Luminaire: LEDiL Oy F13663\_ANGELA-M-B\_(S19) Eff.82.6%  
Lamps: 1 x Osram\_SOLERIQ\_S19\_1434.85lm@250mA\_P=10.5595W\_I=249.8mA





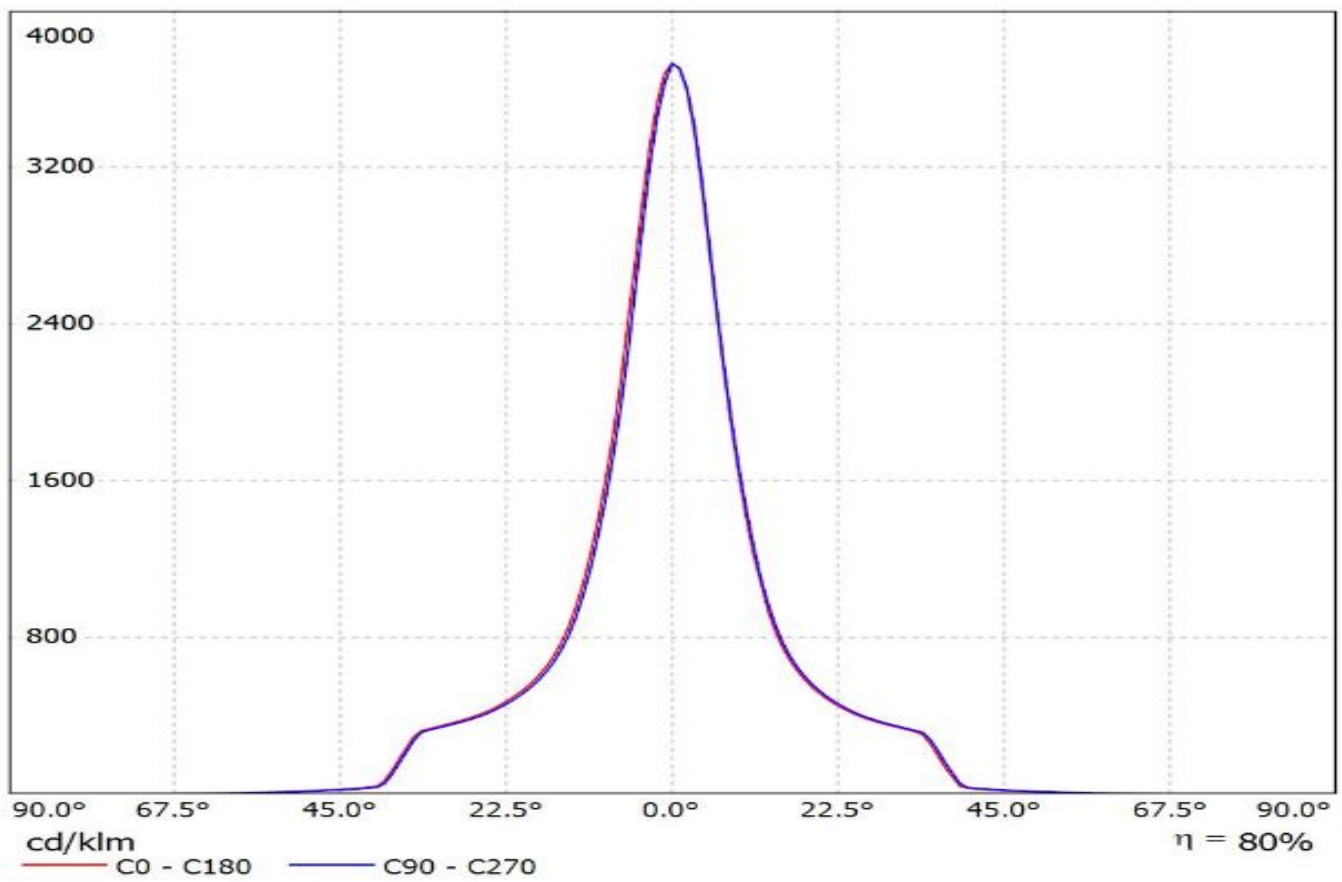
Luminaire: LEDiL Oy F13663\_ANGELA-M-B\_(SOLERIQ\_P13)

Lamps: 1 x SOLERIQ\_P13\_(GW\_MAGMB1.EM)\_1053.65lm@250mA\_CCT=3000K\_P=8.82044W\_I=249.8mA

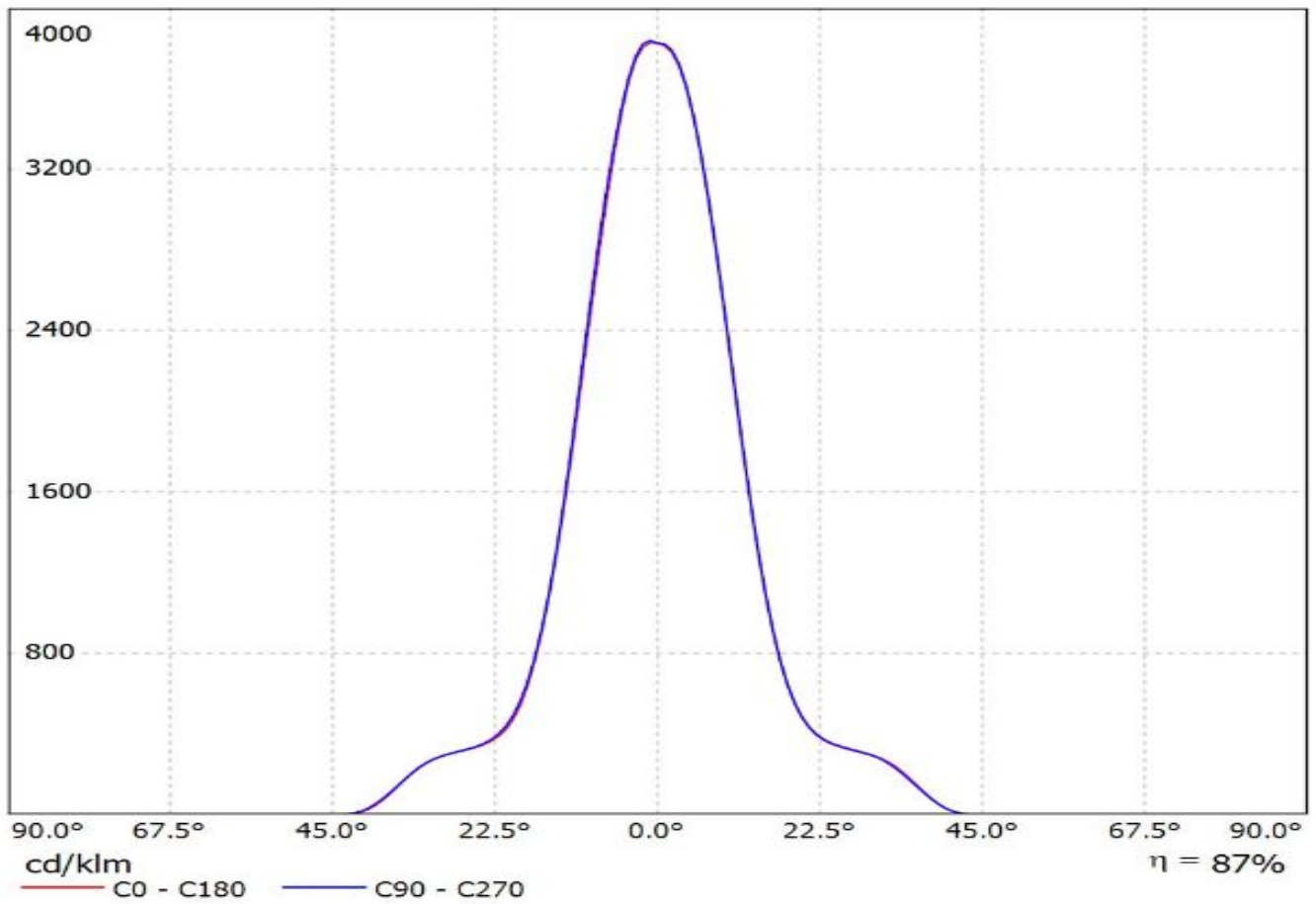


Luminaire: Ledil F13663\_ANGELA-M-B\_(Soleriq\_S13\_G2)

Lamps: 1 x Osram\_Solericq\_S13\_G2\_(GW\_KAGHB2.EM)1353.18lm@250mA\_P=8.46W\_I=0.25A

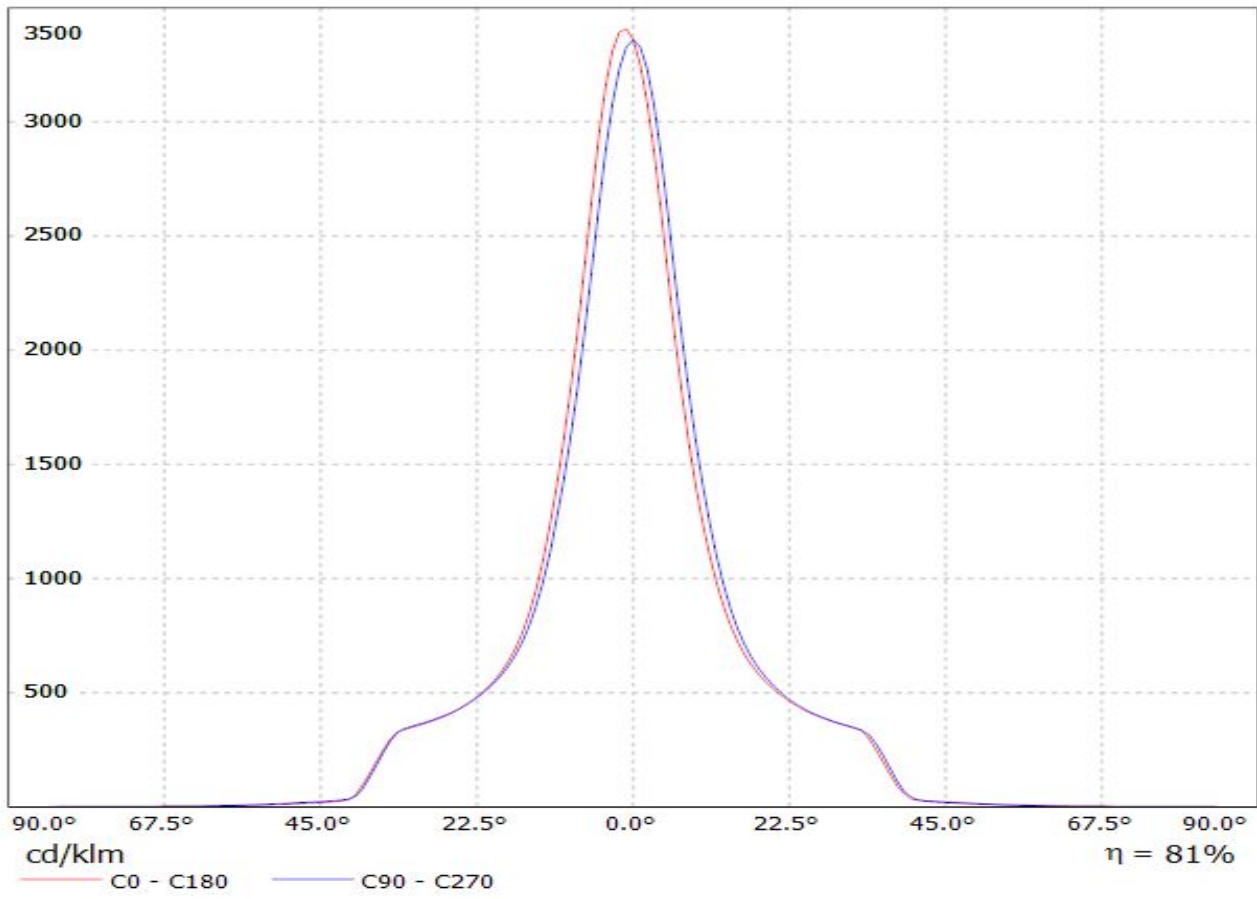


Luminaire: Ledil Oy F13663\_ANGELA-M-B+\_BJB\_47.319.2030\_SAMSUNG\_COB\_D\_LC040D\_SIMULATED  
Lamps: 1 x SAMSUNG LC040D



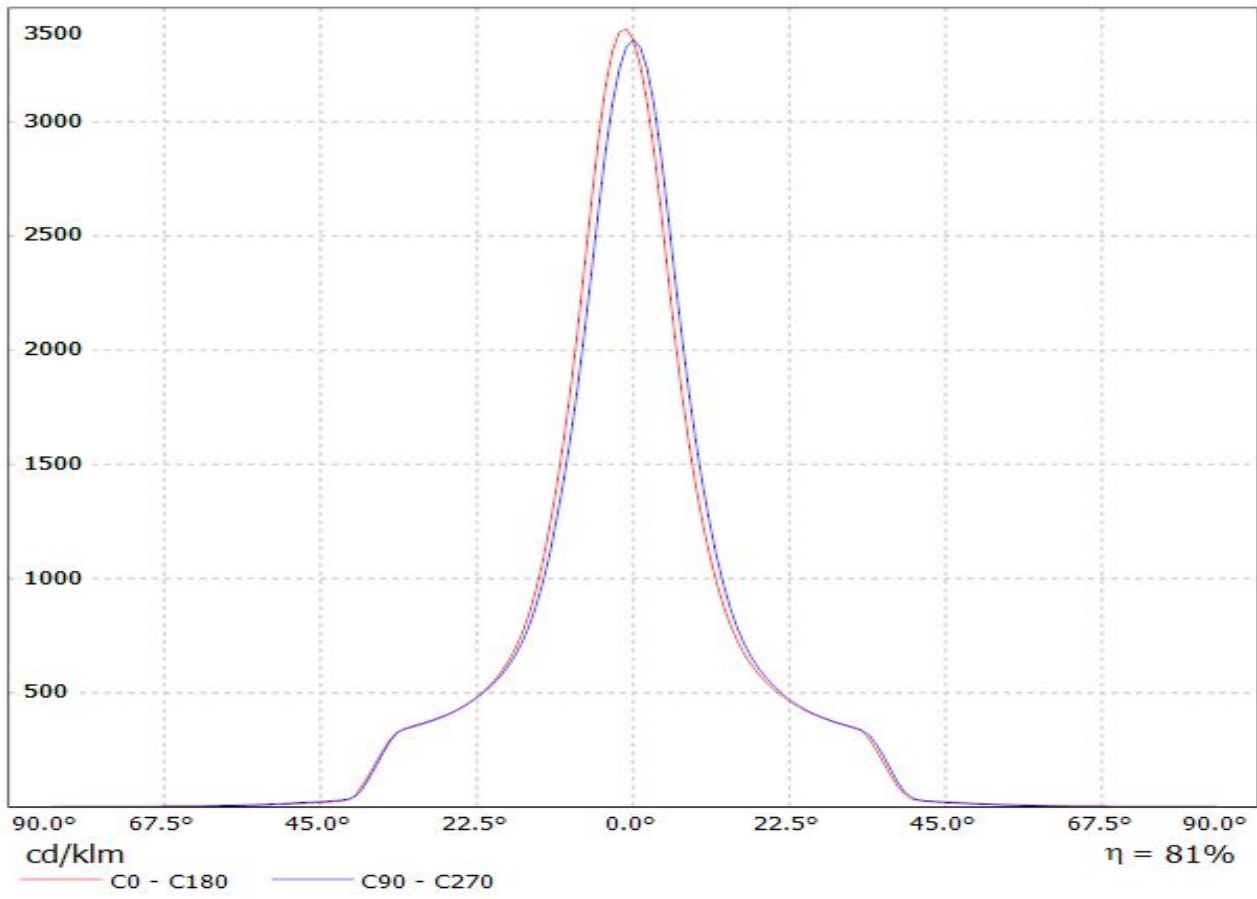
Luminaire: LEDiL Oy F13663\_ANGELA-M-B\_(COB\_D\_14,5mm)

Lamps: 1 x Samsung\_COB\_D\_Series-LES-14,5\_LC026D\_1296.34lm@250mA\_CCT=3000K\_P=8.1225W\_I=0.250A

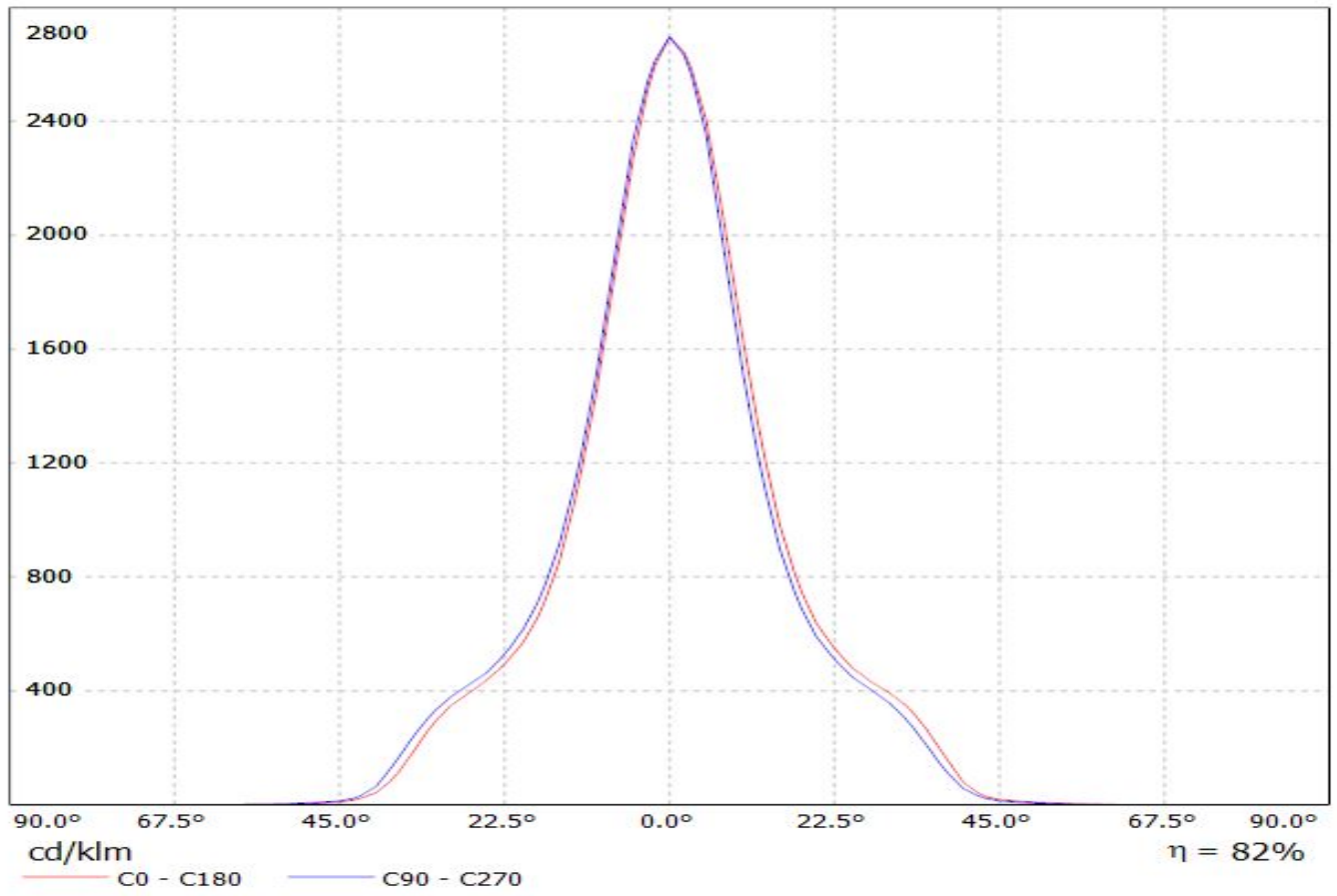


Luminaire: LEDiL Oy F13663\_ANGELA-M-B\_(COB\_D\_14,5mm)

Lamps: 1 x Samsung\_COB\_D\_Series-LES-14,5\_LC026D\_1296.34lm@250mA\_CCT=3000K\_P=8.1225W\_I=0.250A

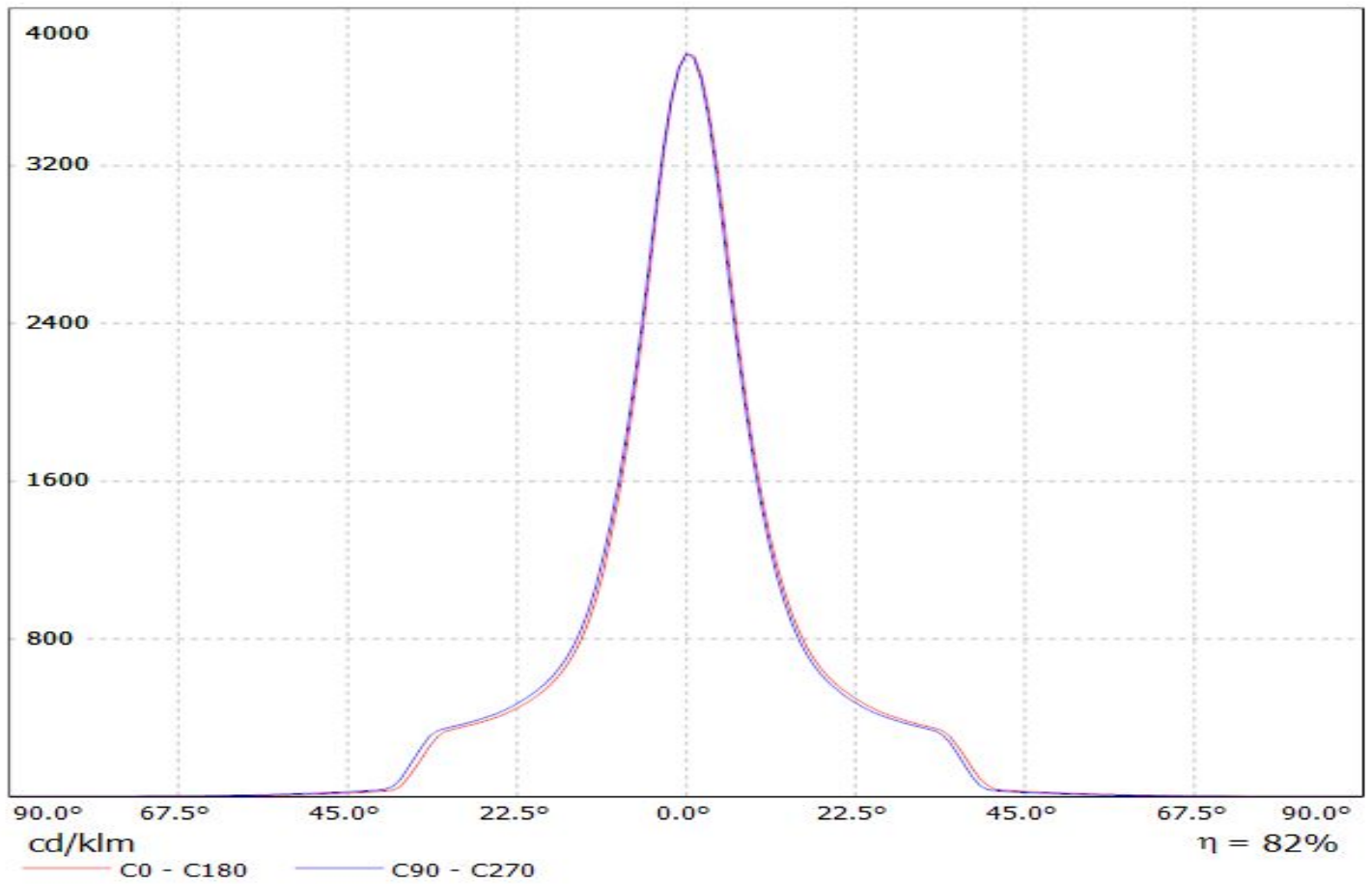


Luminaire: Ledil Oy F13663\_ANGELA-M-B\_(ZC-40) Efficiency=81%  
Lamps: 1 x Seoul ZC-40 (SBWW5F1B) 1153lm @ 250mA CCT= P=8.25W I=250mA



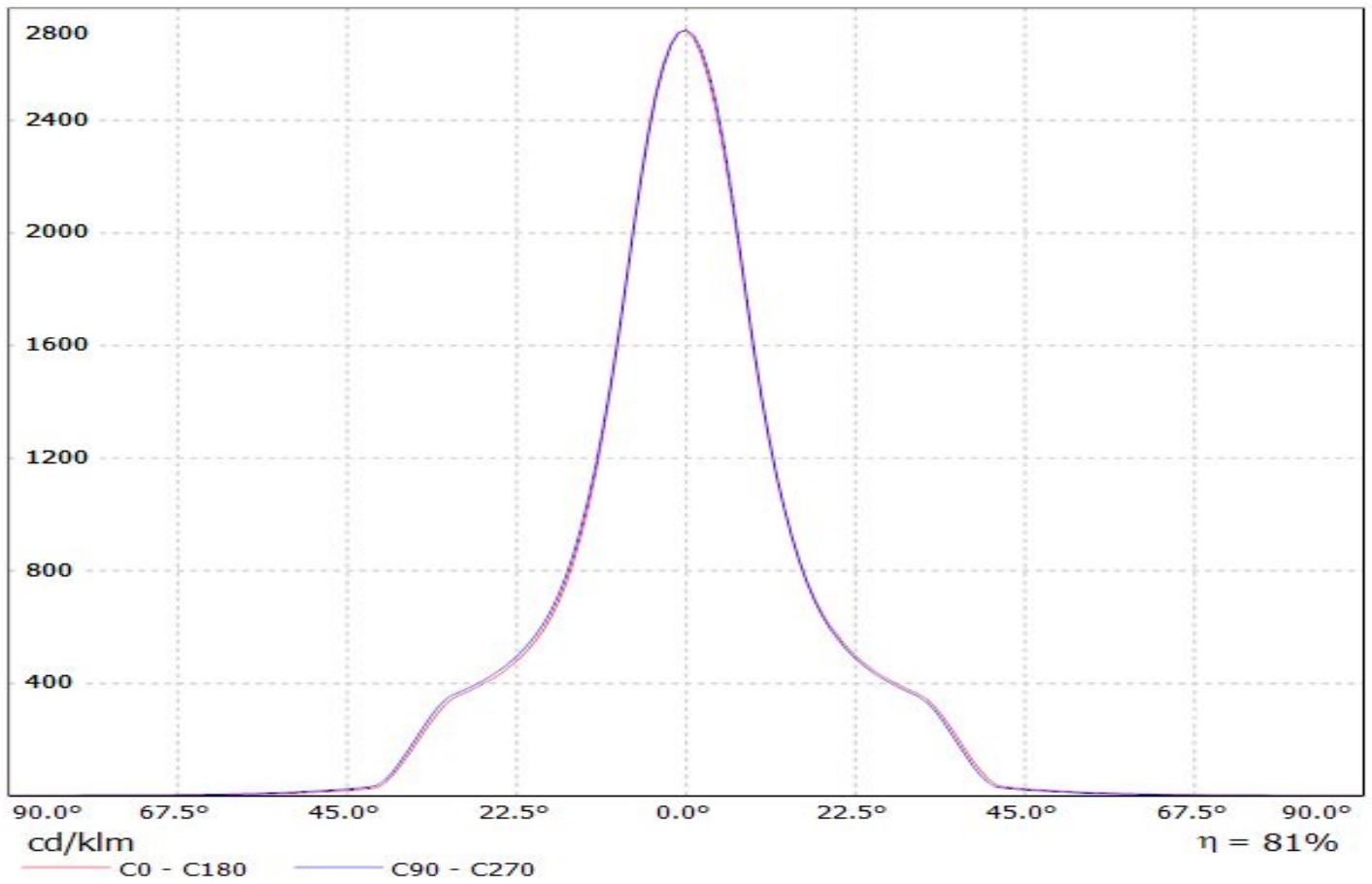
Luminaire: LEDiL Oy F13663\_ANGELA-M-B\_(ZC12)

Lamps: 1 x SEOUL\_ZC12\_(SDW82F1C)\_1240.73lm@250mA\_P=8.68405W\_I=249.8mA



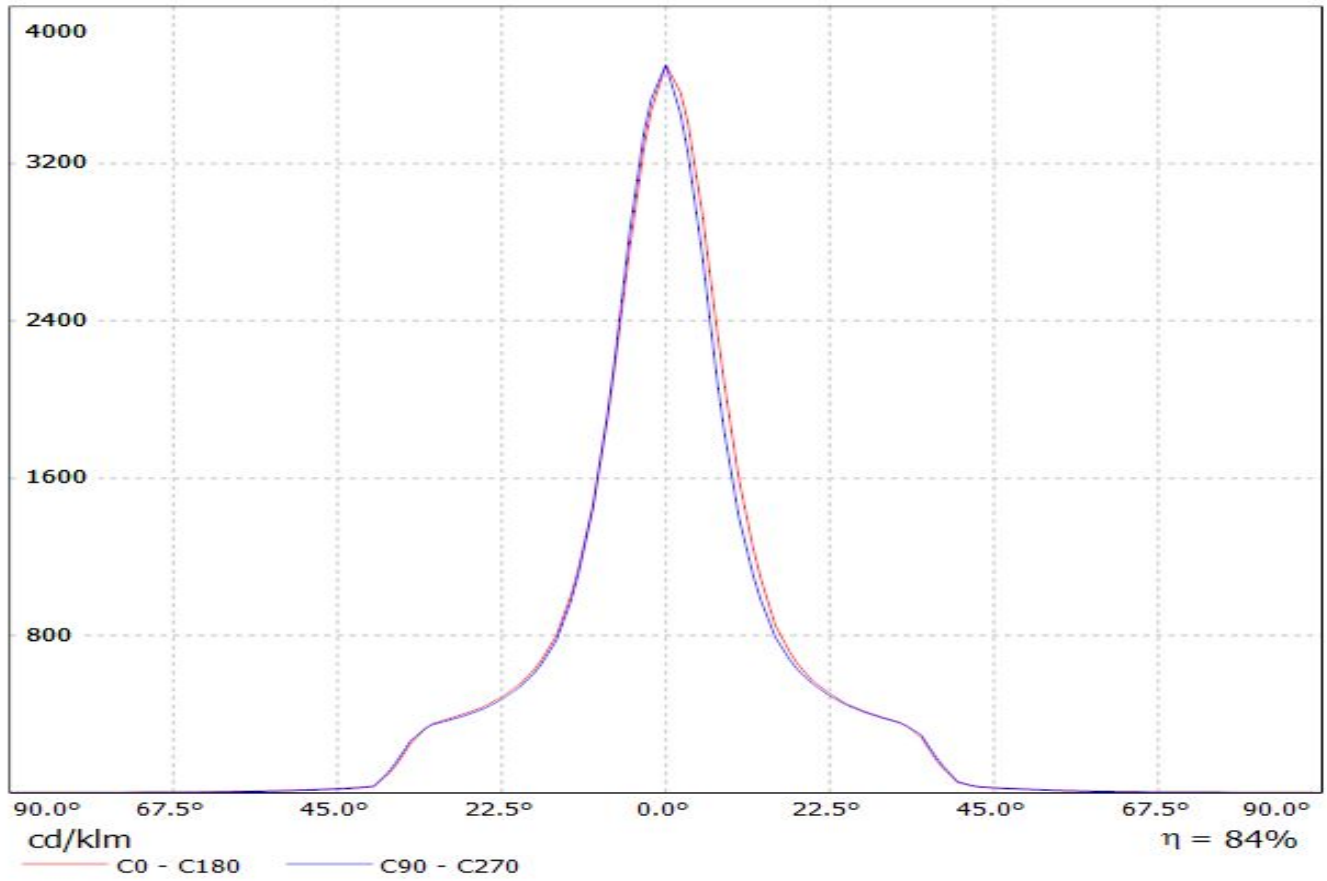
Luminaire: LEDiL Oy F13663\_ANGELA-M-B\_(ZC40)

Lamps: 1 x SEOUL\_ZC40\_(SBWW5F1B)\_1176.6lm@250mA\_P=8.22171W\_I=249.9mA



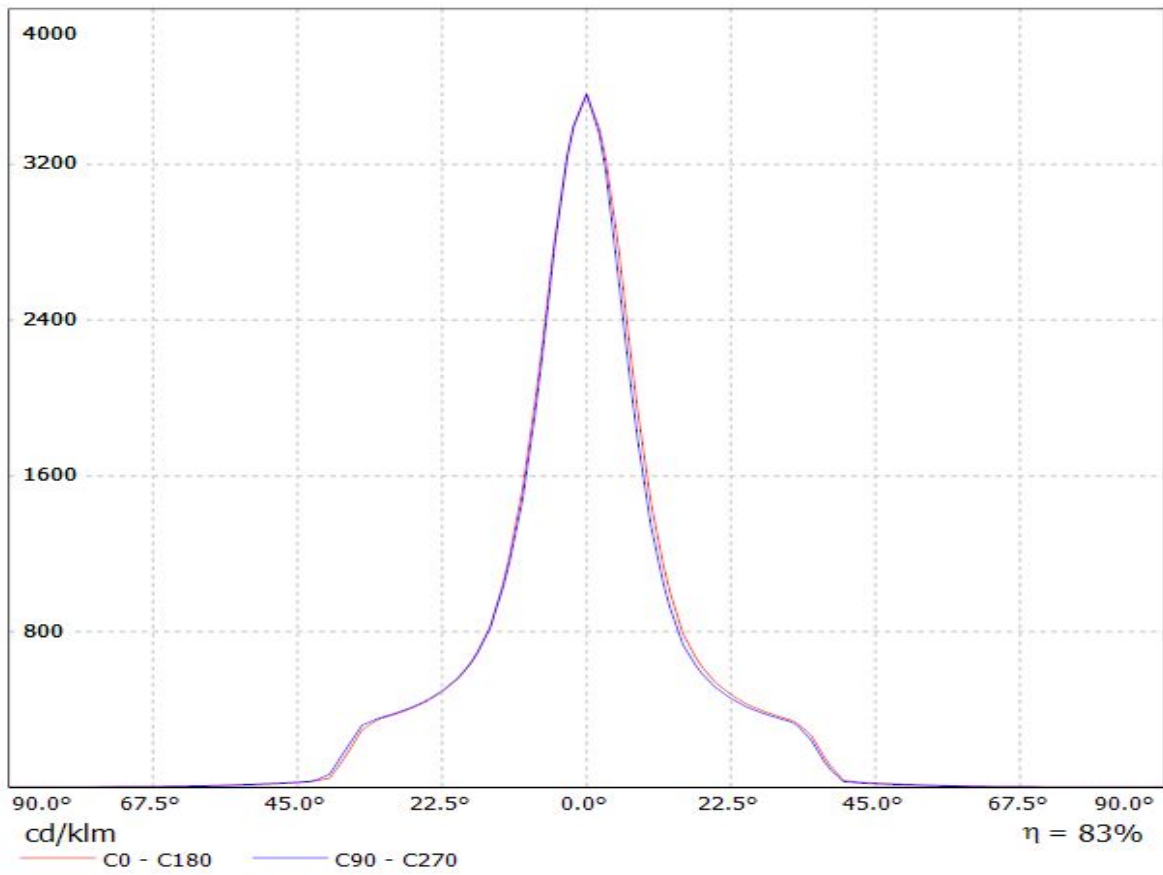


Luminaire: LEDiL Oy F13663\_ANGELA-M-B\_(MZ) Eff 84.3%  
Lamps: 1 x Sharp\_Mega\_Zenigata\_1226.07lm@250mA\_P=11.1573W\_I=249.8mA

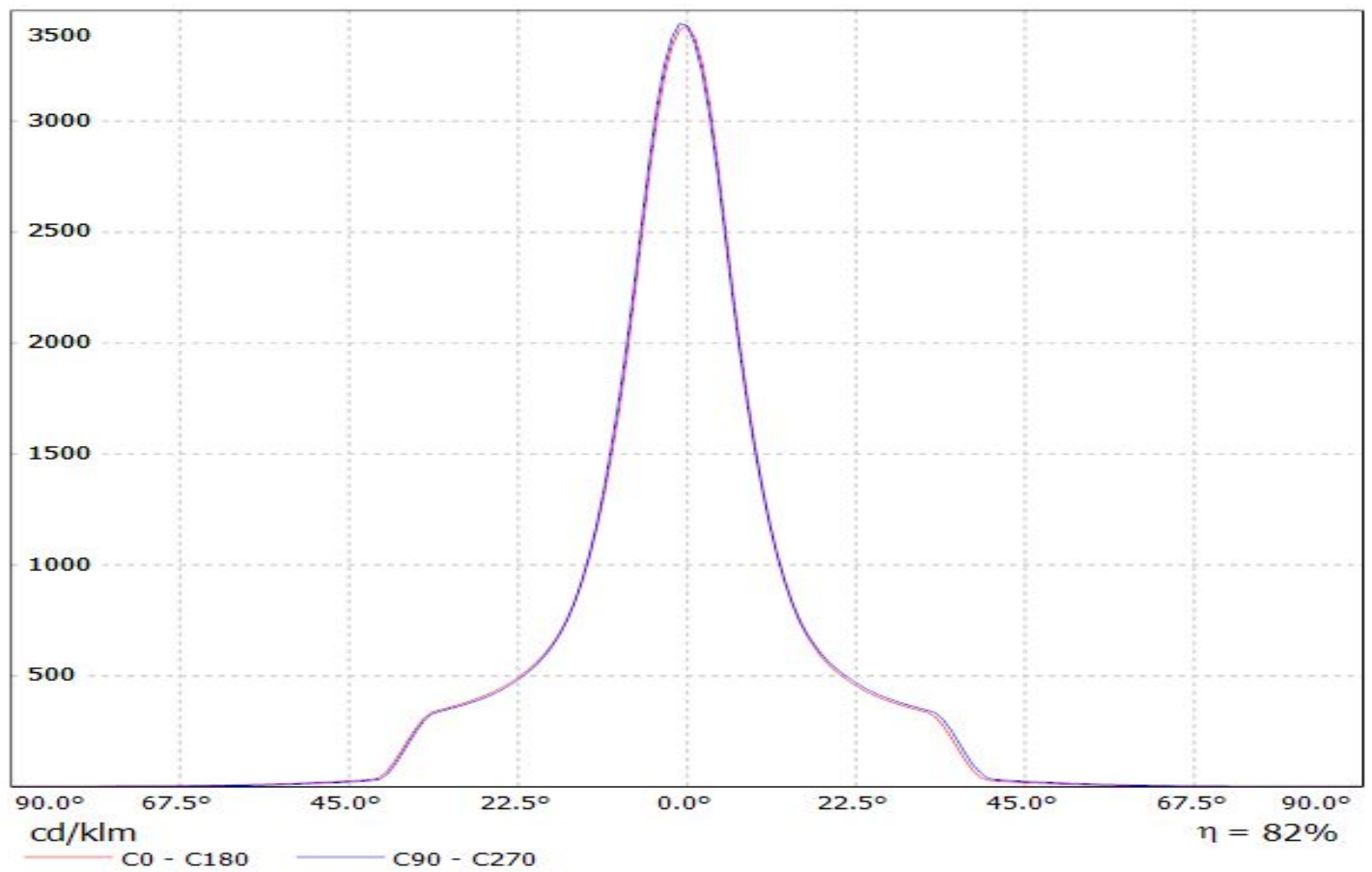


Luminaire: LEDiL Oy F13663\_ANGELA-M-B\_(MegaZenigata\_GW6)

Lamps: 1 x Sharp\_MegaZenigata\_GW6\_(GW6DME30NFC)\_1266.19lm@250mA\_CCT=3038K\_P=11.2151W\_I=250.6mA

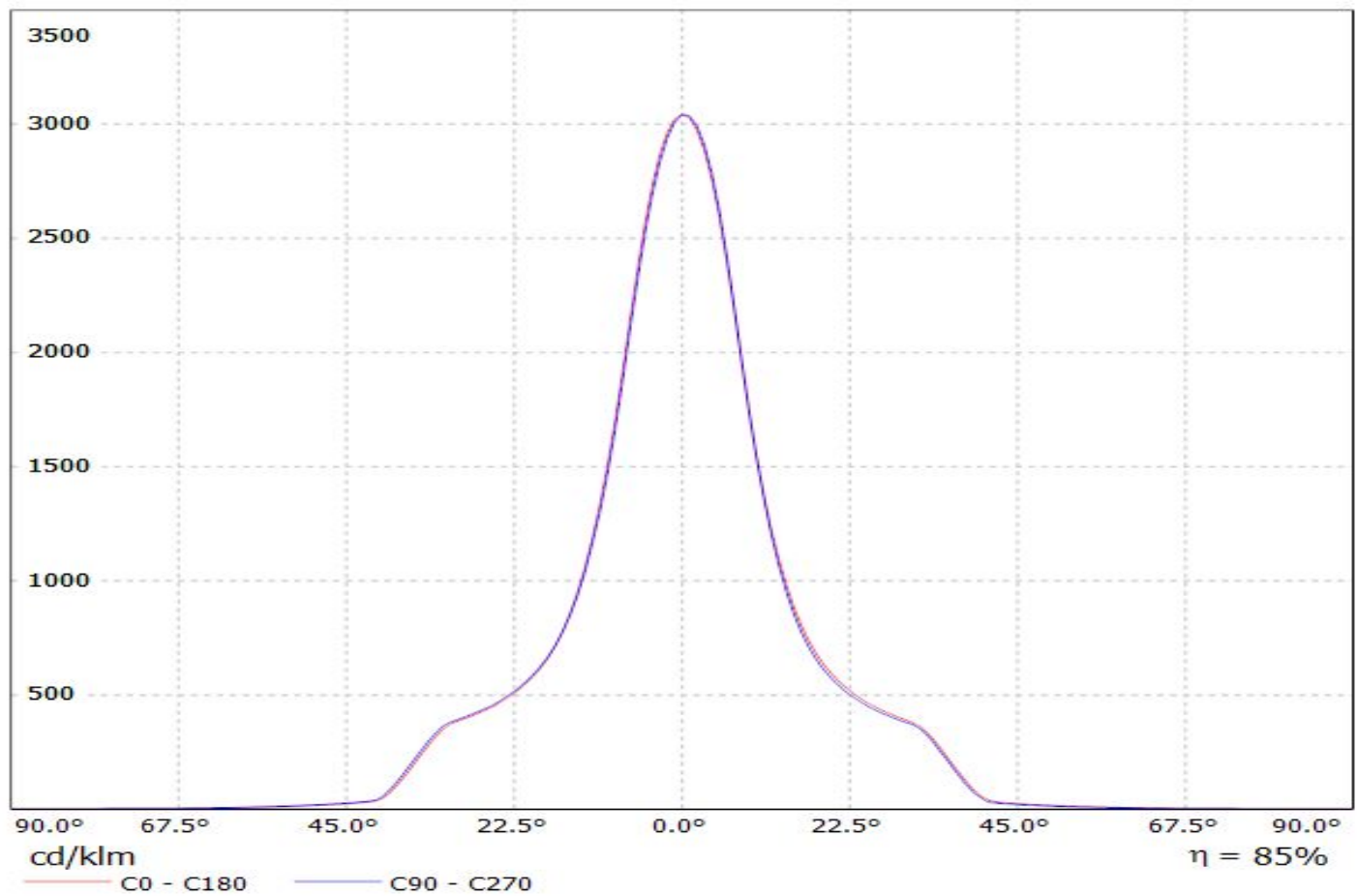


Luminaire: LEDiL Oy F13663\_ANGELA-M-B\_(STARK\_SLE\_G3\_LES17)  
Lamps: 1 x TRIDONIC\_STARK\_SLE\_G3\_LES17\_(STARK-SLE-PURE\_G3-17-2000-840-CLA)  
\_1030.26lm@250mA\_CCT=2000K\_P=8.34707W\_I=249.8mA

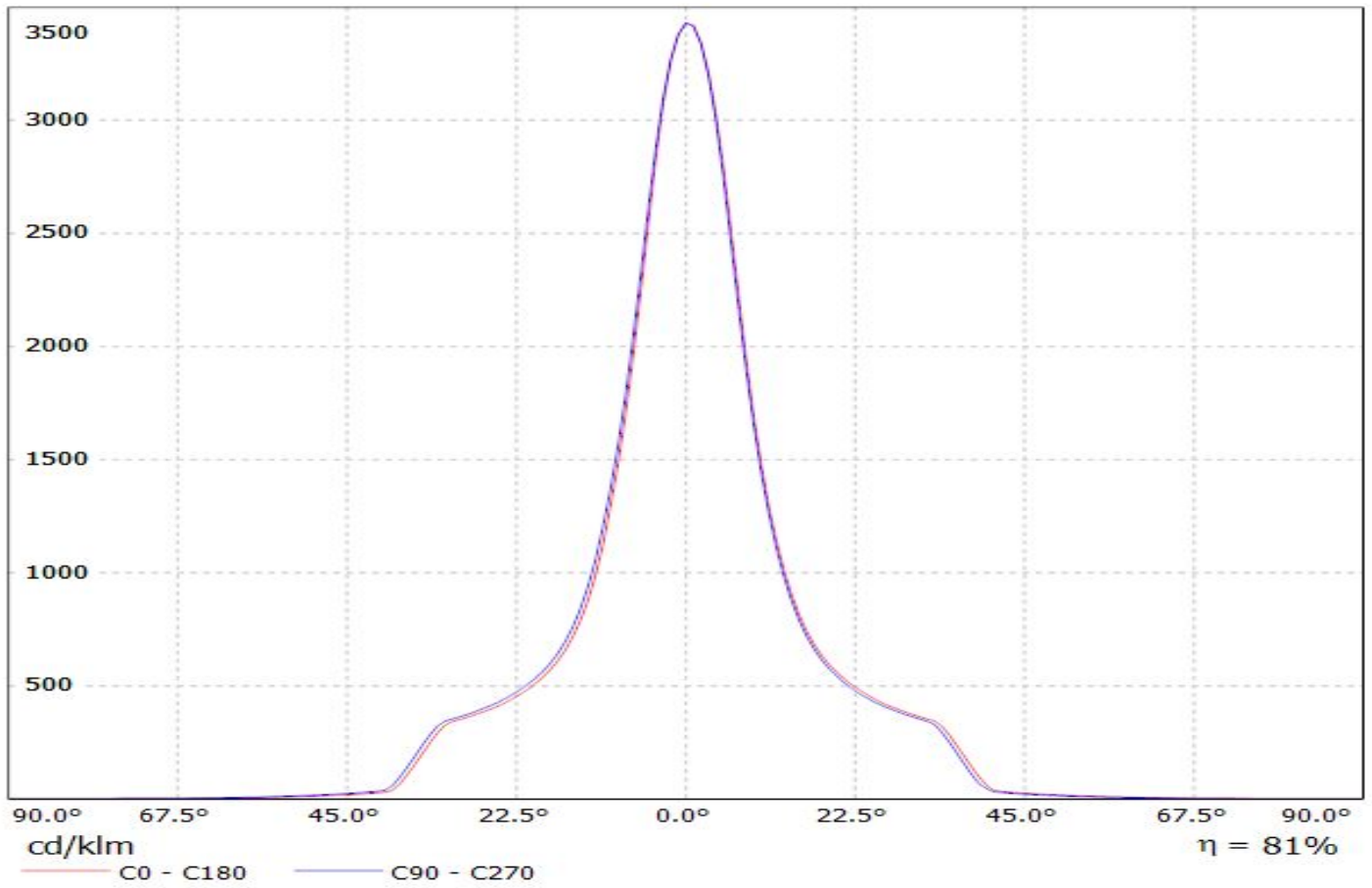


Luminaire: LEDiL Oy F13663\_ANGELA-M-B\_(SLE\_G4\_LES23)

Lamps: 1 x Tridonic\_SLE\_G4\_LES23\_1354.57lm@250mA\_P=8.18744W\_I=0.2498A

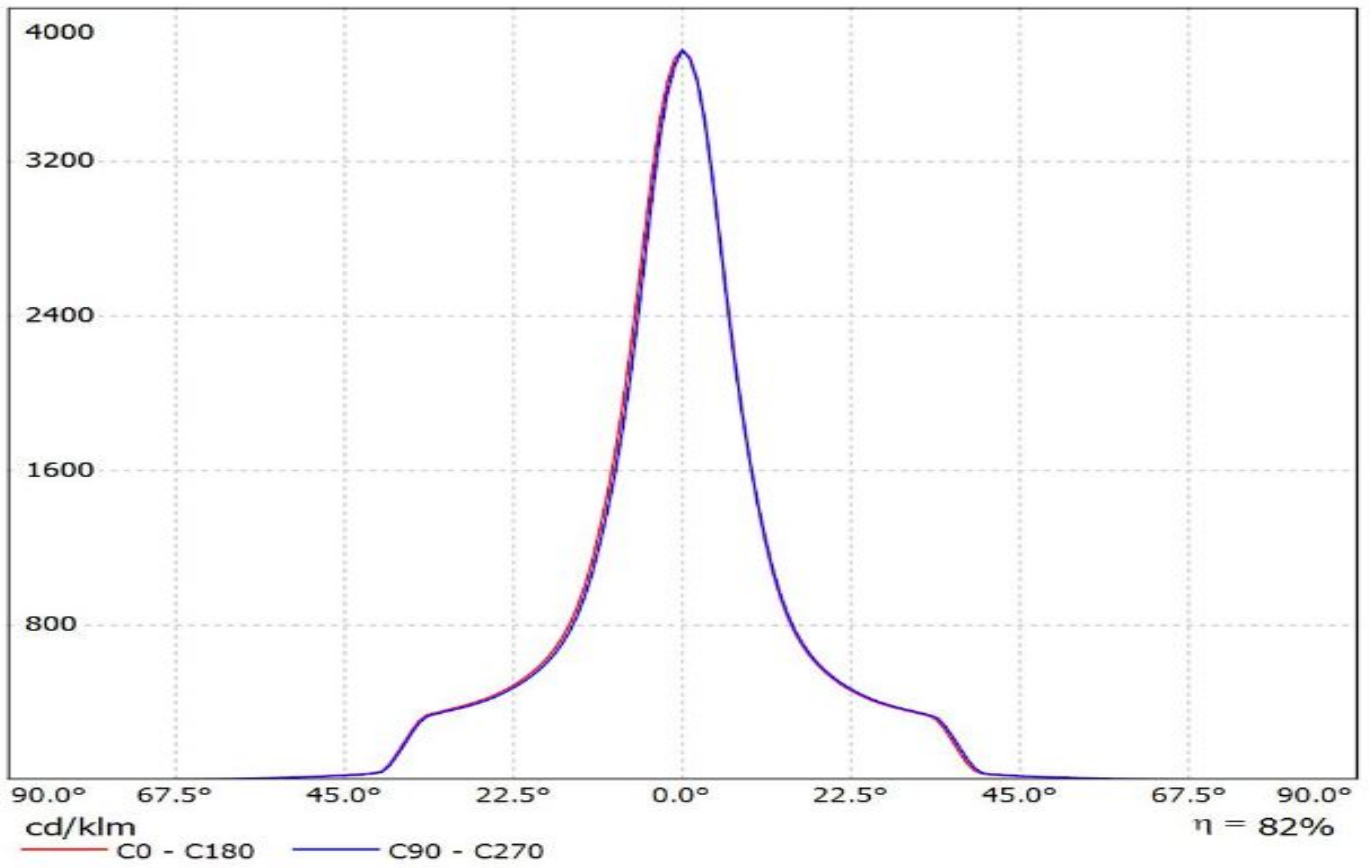


Luminaire: LEDiL Oy F13663\_ANGELA-M-B\_(SLE GEN4 LES19)  
Lamps: 1 x SLE GEN4 LES19\_1226.28lm@250mA\_P=8.21367W\_I=0.2498A

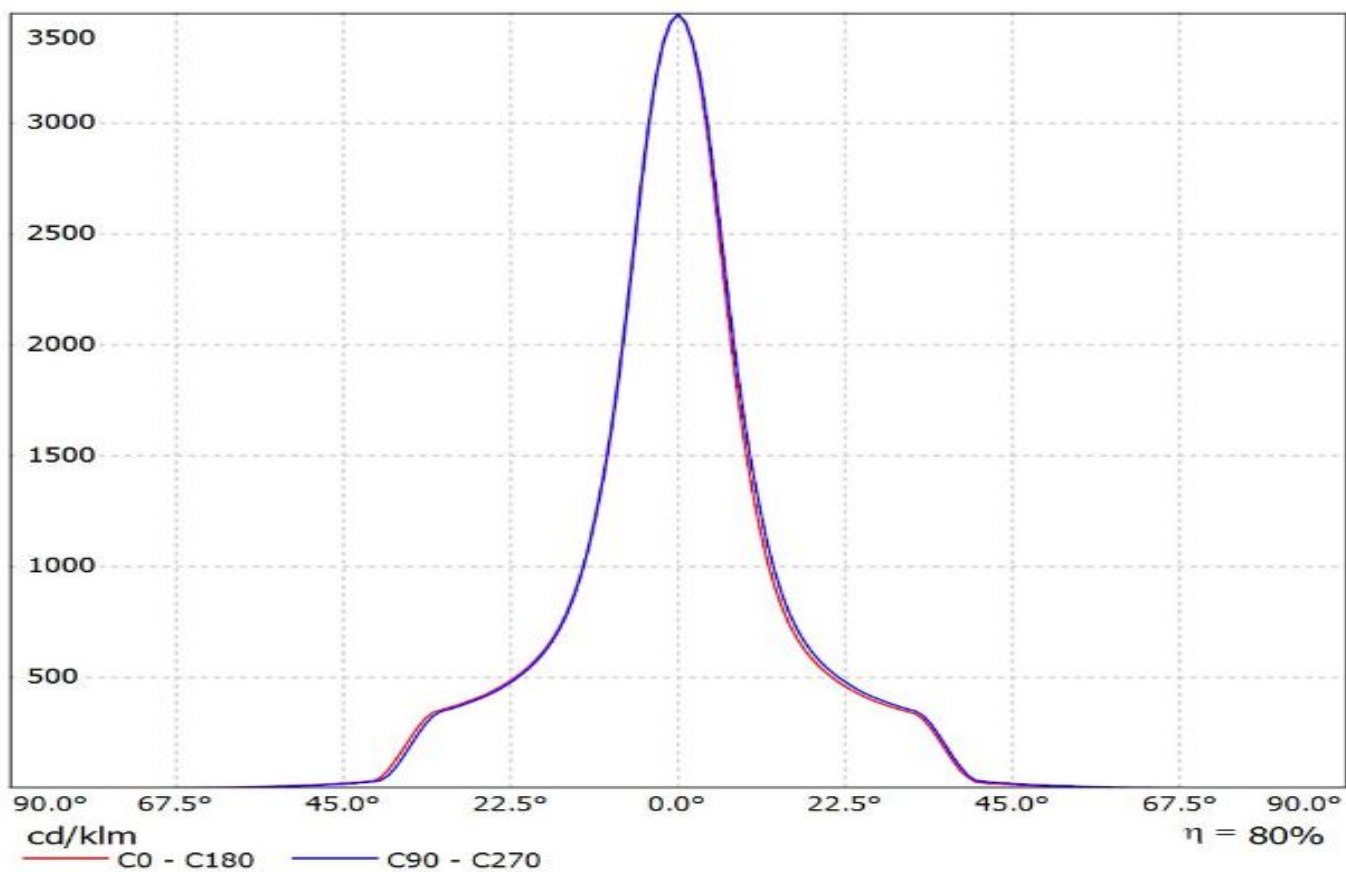


Luminaire: LEDiL Oy F13663\_ANGELA-M-B (SLE-G5\_LES-15)

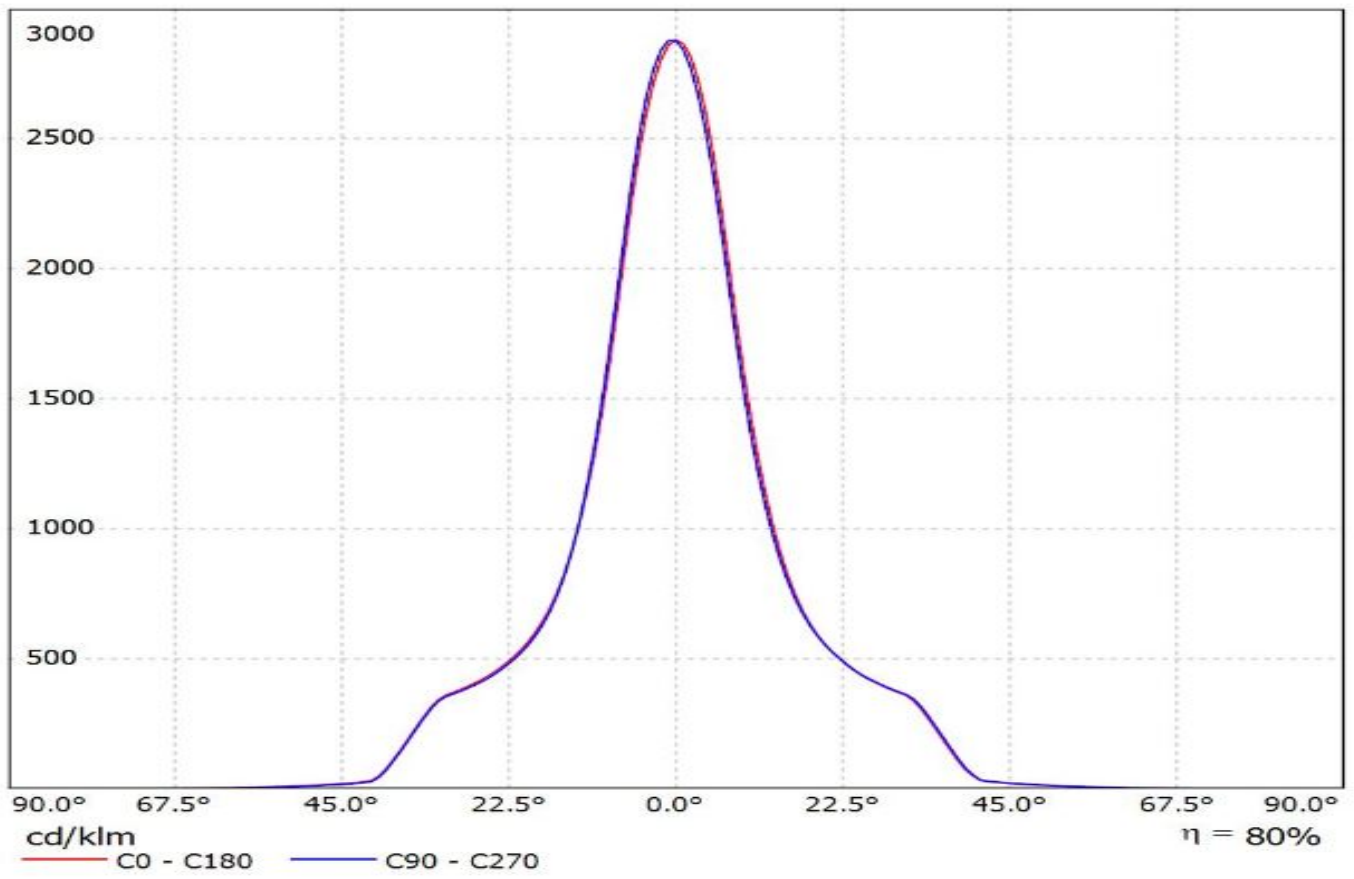
Lamps: 1 x Tridonic\_SLE-G5\_LES-15\_1272.36lm@250mA\_P=8.6660W\_I=0.250A



Luminaire: LEDiL Oy F13380\_ANGELA-M\_(SLE-G5\_LES-19)  
Lamps: 1 x Tridonic\_SLE-G5\_LES-19\_1334.47lm@250mA\_P=8.2224W\_I=0.250A

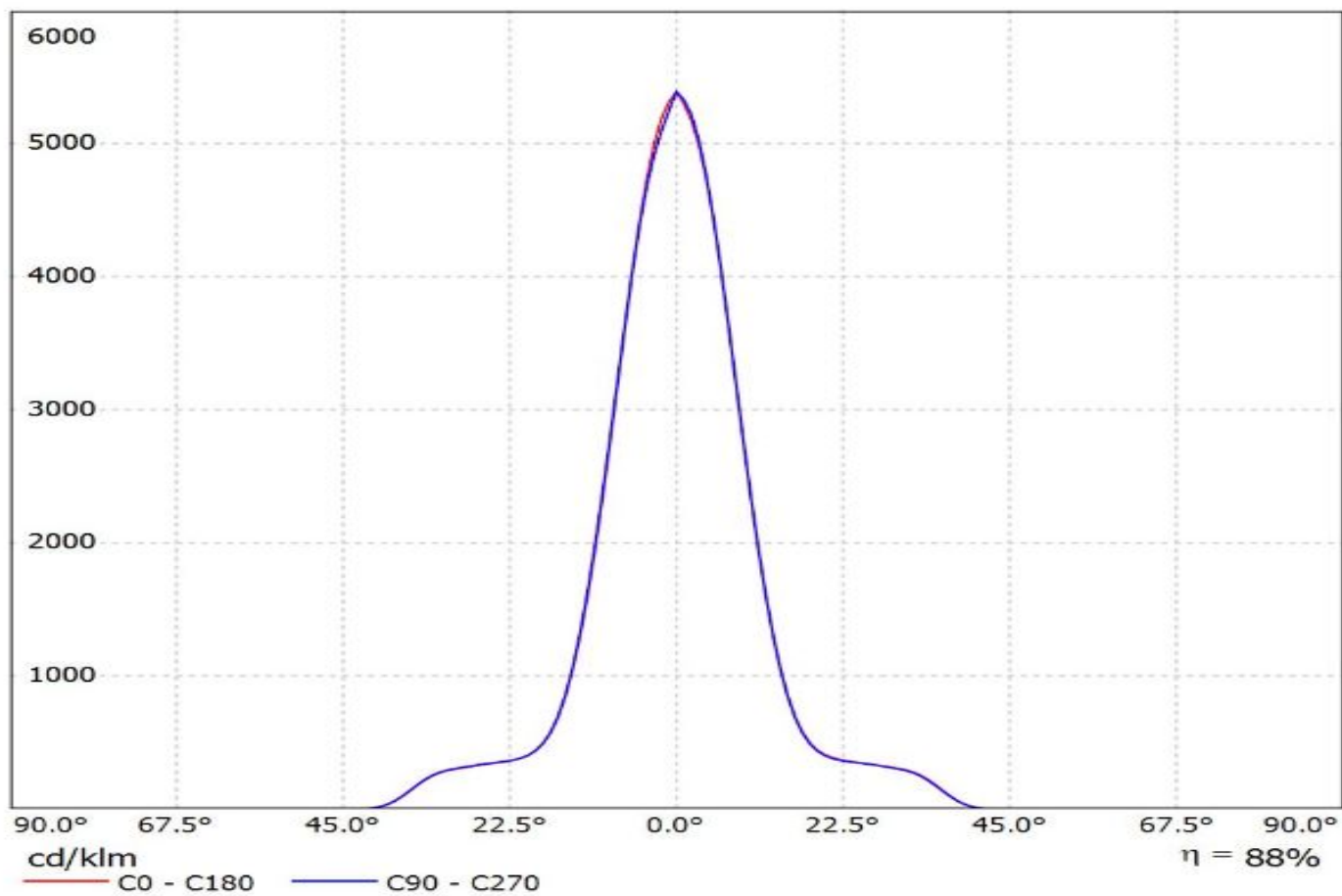


Luminaire: LEDiL Oy F13663\_ANGELA-M-B\_(SLE-G5\_LES-23)  
Lamps: 1 x Tridonic\_SLE-G5\_LES-23\_1371.74lm@250mA\_P=8.1065W\_I=0.250A

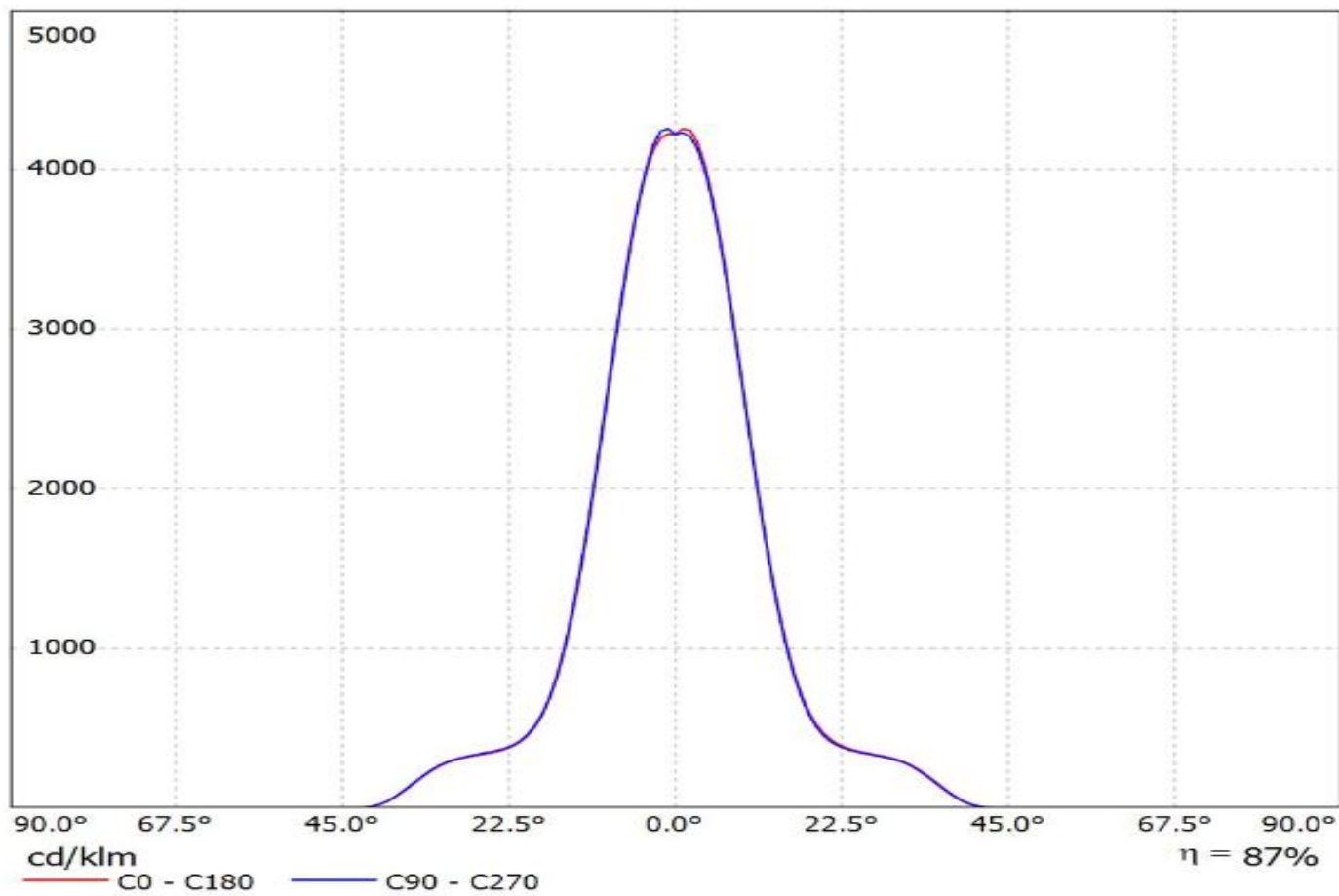




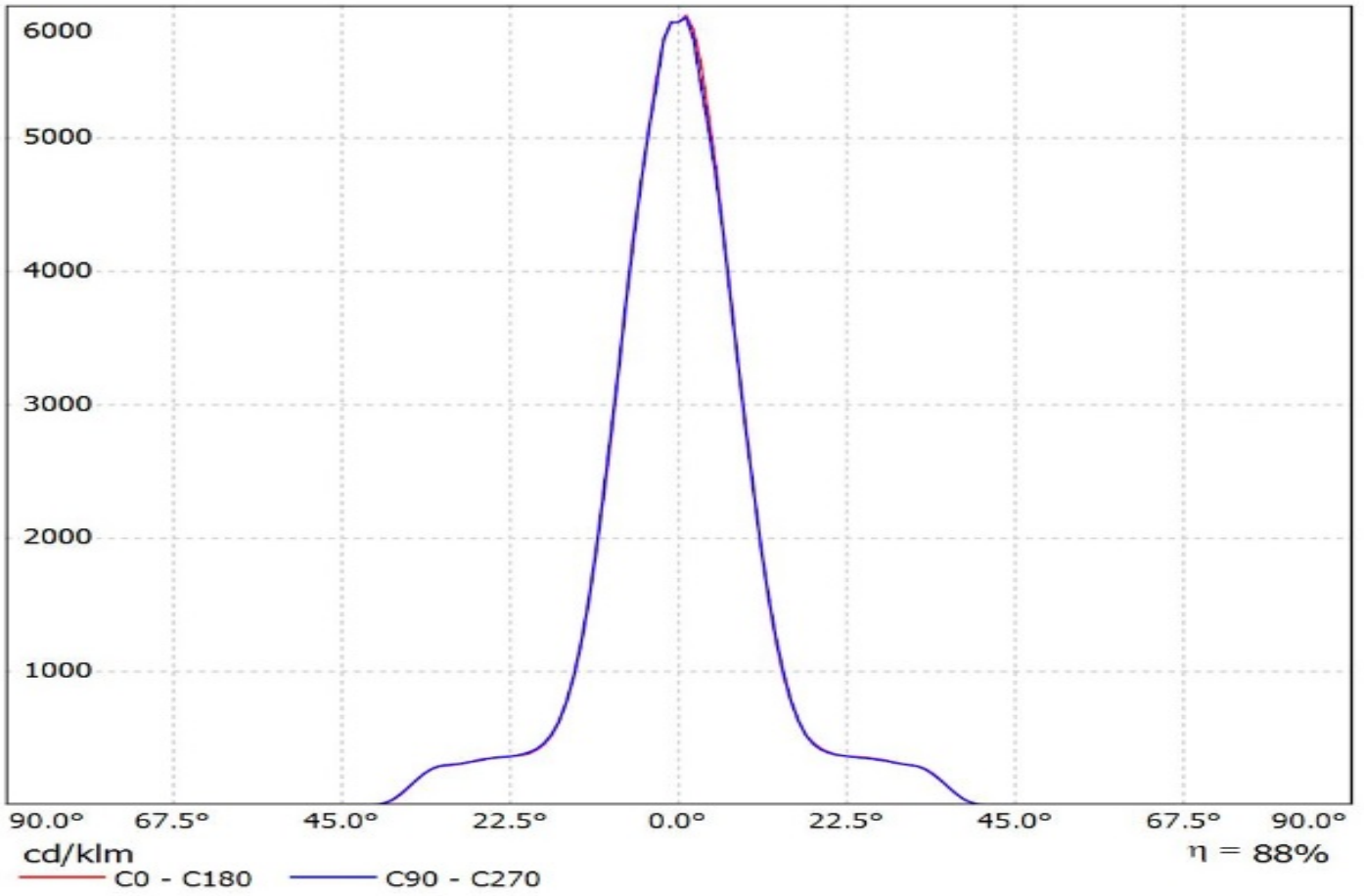
Luminaire: Ledil Oy F13663\_ANGELA-M-B\_TRIDONIC\_SLE\_G6\_LES19\_H\_SIMULATED  
Lamps: 1 x TRIDONIC SLE G6 LES19 H



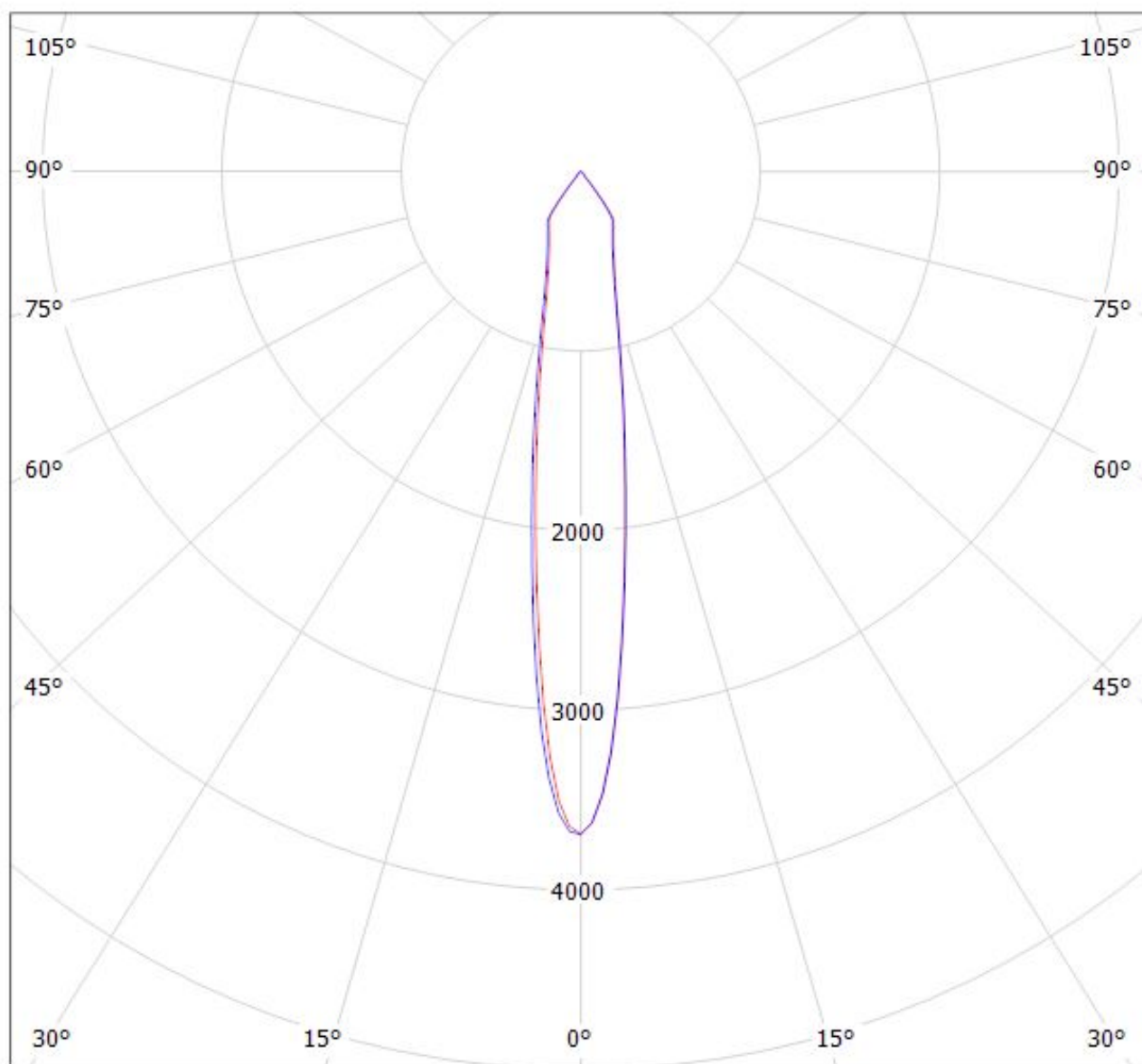
Luminaire: Ledil Oy F13663\_ANGELA-M-B\_TRIDONIC\_SLE\_G6\_LES23\_H\_SIMULATED  
Lamps: 1 x TRIDONIC SLE G6 LES23 H



Luminaire: Ledil Oy F13663\_ANGELA-M-B\_(SLE\_G6\_LES17\_H)\_SIMULATED  
Lamps: 1 x Tridonic SLE G6 LES17 H



Luminaire: LEDiL Oy F13663\_ANGELA-M-B\_(BXRA\_ES) Eff.82.2%  
Lamps: 1 x Bridgelux\_BXRA\_ES\_287.055lm@250mA\_P=4.09486W\_I=249.9mA



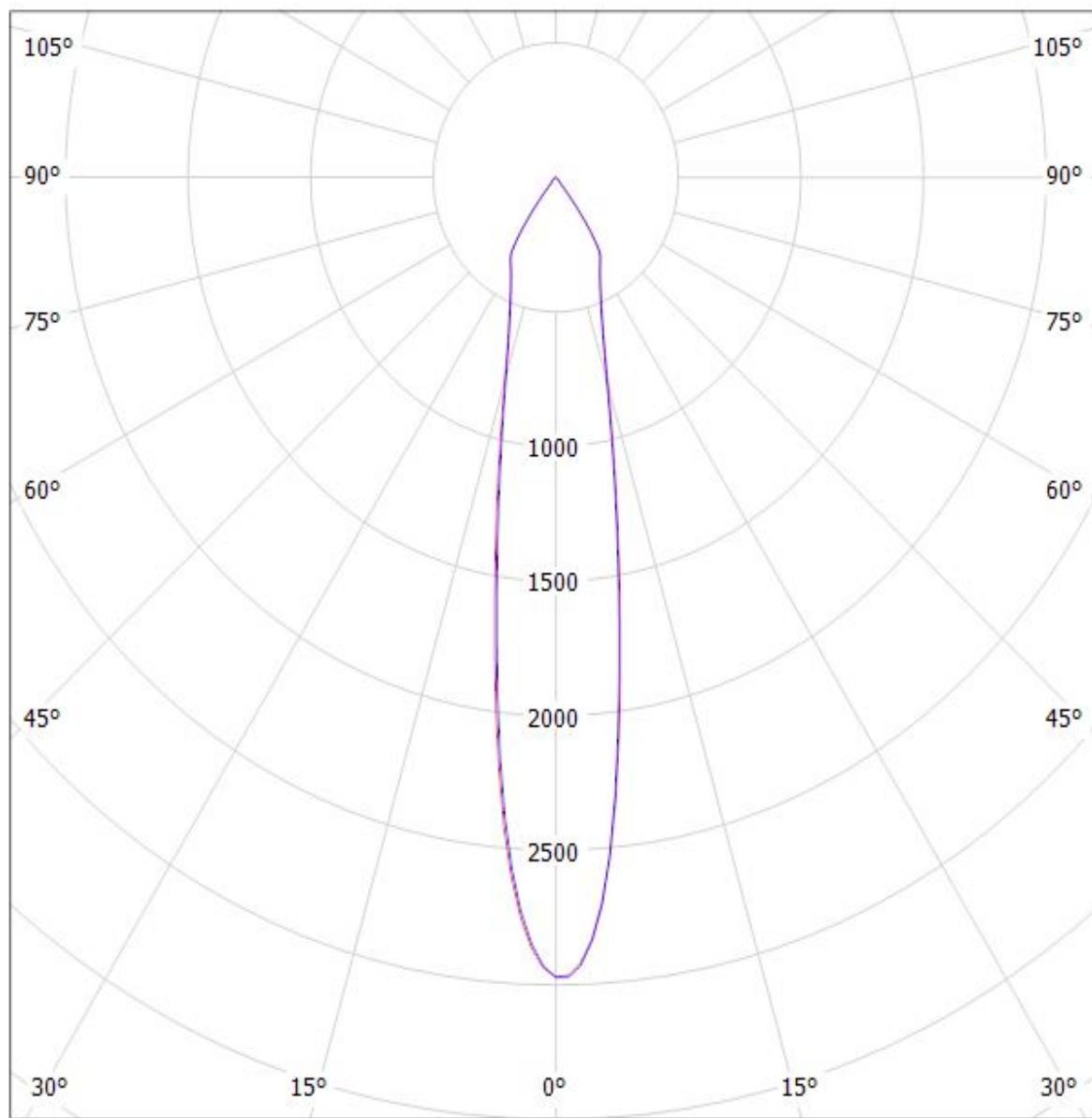
cd/klm

$\eta = 82\%$

— C0 - C180    — C90 - C270

Luminaire: LEDiL Oy F13663\_ANGELA-M-B\_(V18\_Gen7)+BJB

Lamps: 1 x Bridgelux\_V18\_Gen7\_(BXRE-30E4000-B)+BJB\_47.319.2350\_1384.73lm@250mA\_P=8.09577W\_I=0.25A

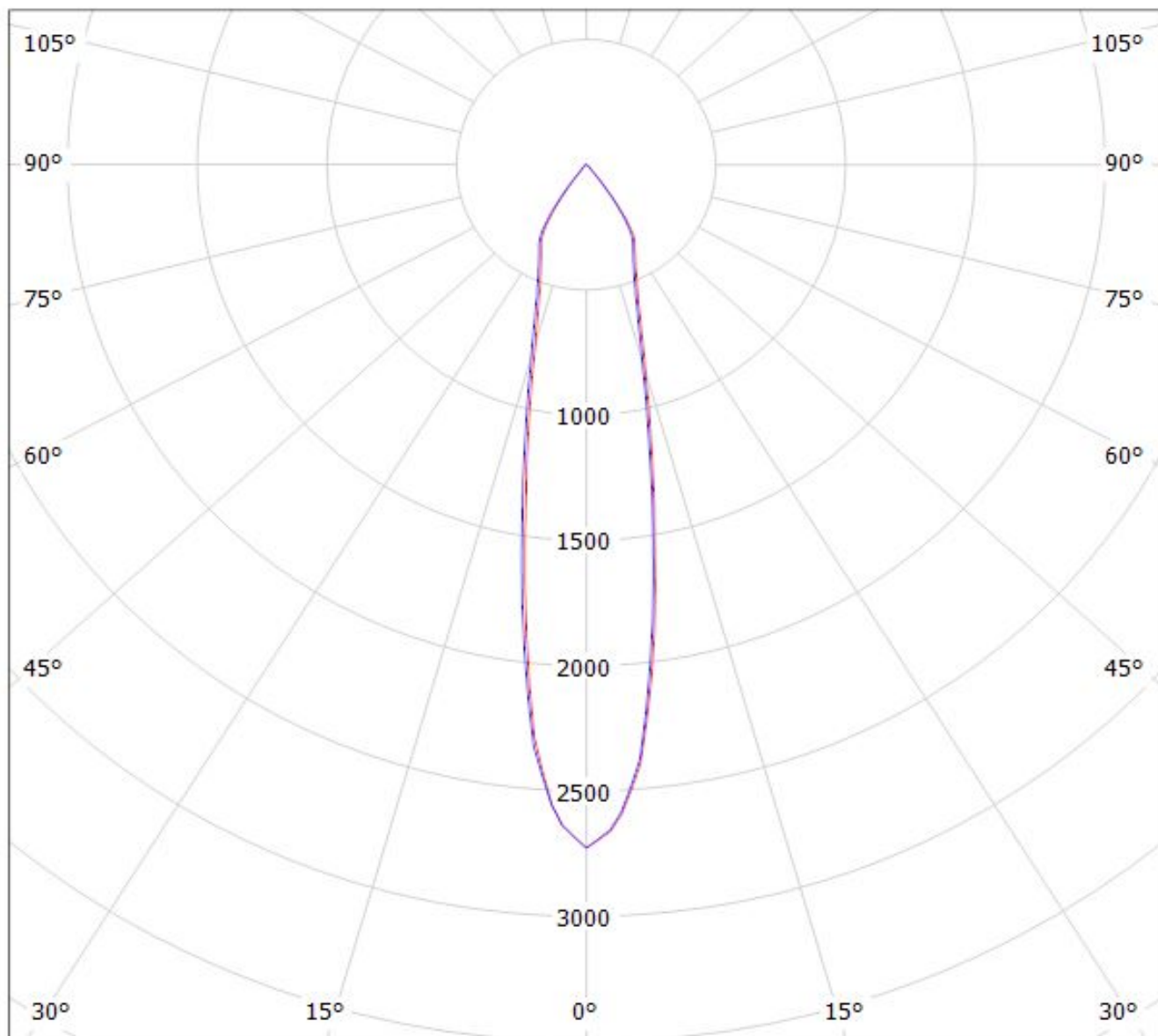


cd/klm

$\eta = 81\%$

— C0 - C180 — C90 - C270

Luminaire: LEDiL Oy F13663\_ANGELA-M-B\_(CLL040) Eff.81.0%  
Lamps: 1 x Citizen\_CLL040\_1011.32lm@250mA\_P=8.24545W\_I=249.9mA



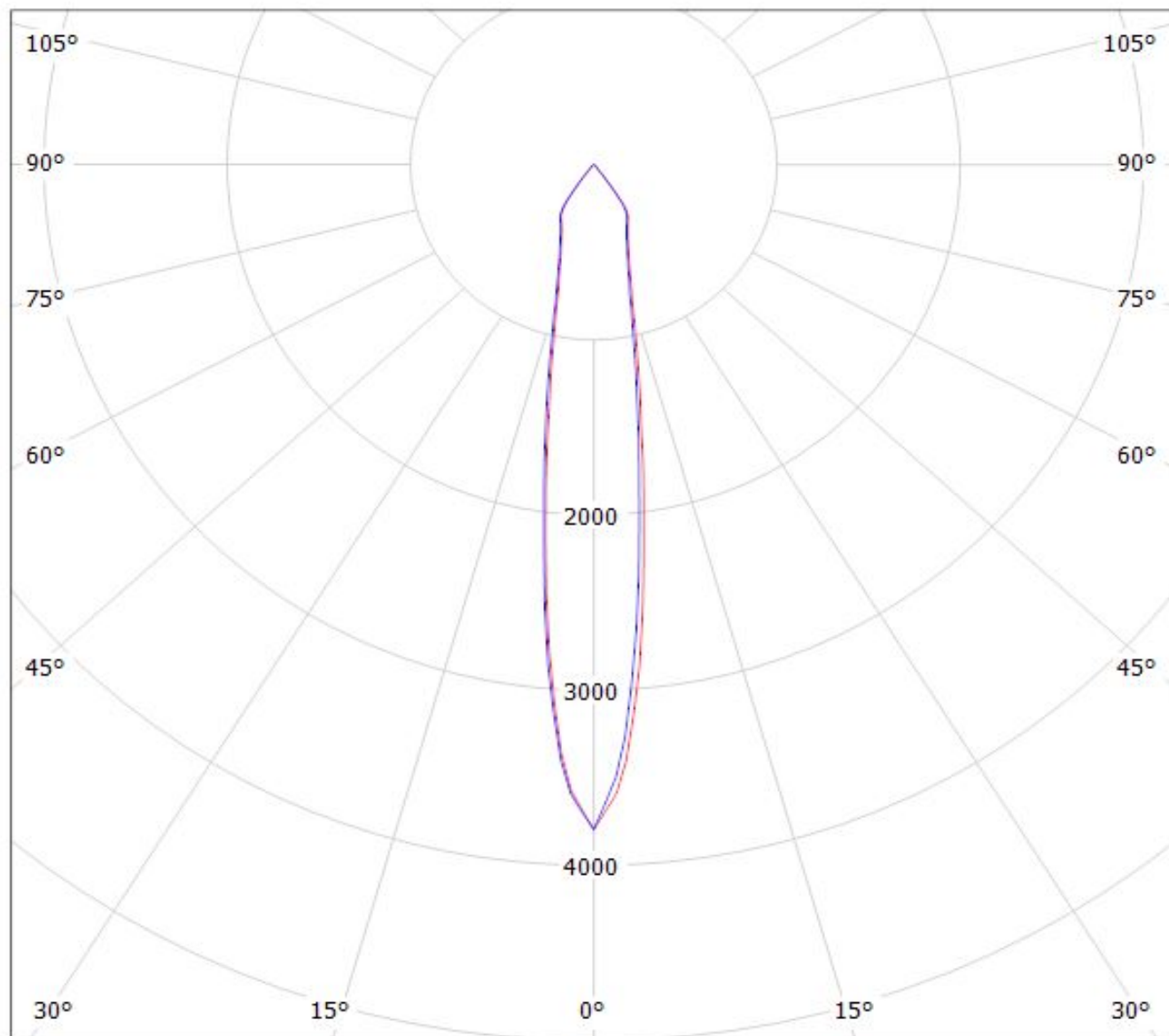
cd/klm

$\eta = 81\%$

— C0 - C180

— C90 - C270

Luminaire: LEDiL Oy F13663\_ANGELA-M-B\_(CLL030) Eff.82.7%  
Lamps: 1 x Citizen\_CLL030\_1040.57lm@250mA\_P=8.45923W\_I=249.8mA



cd/klm

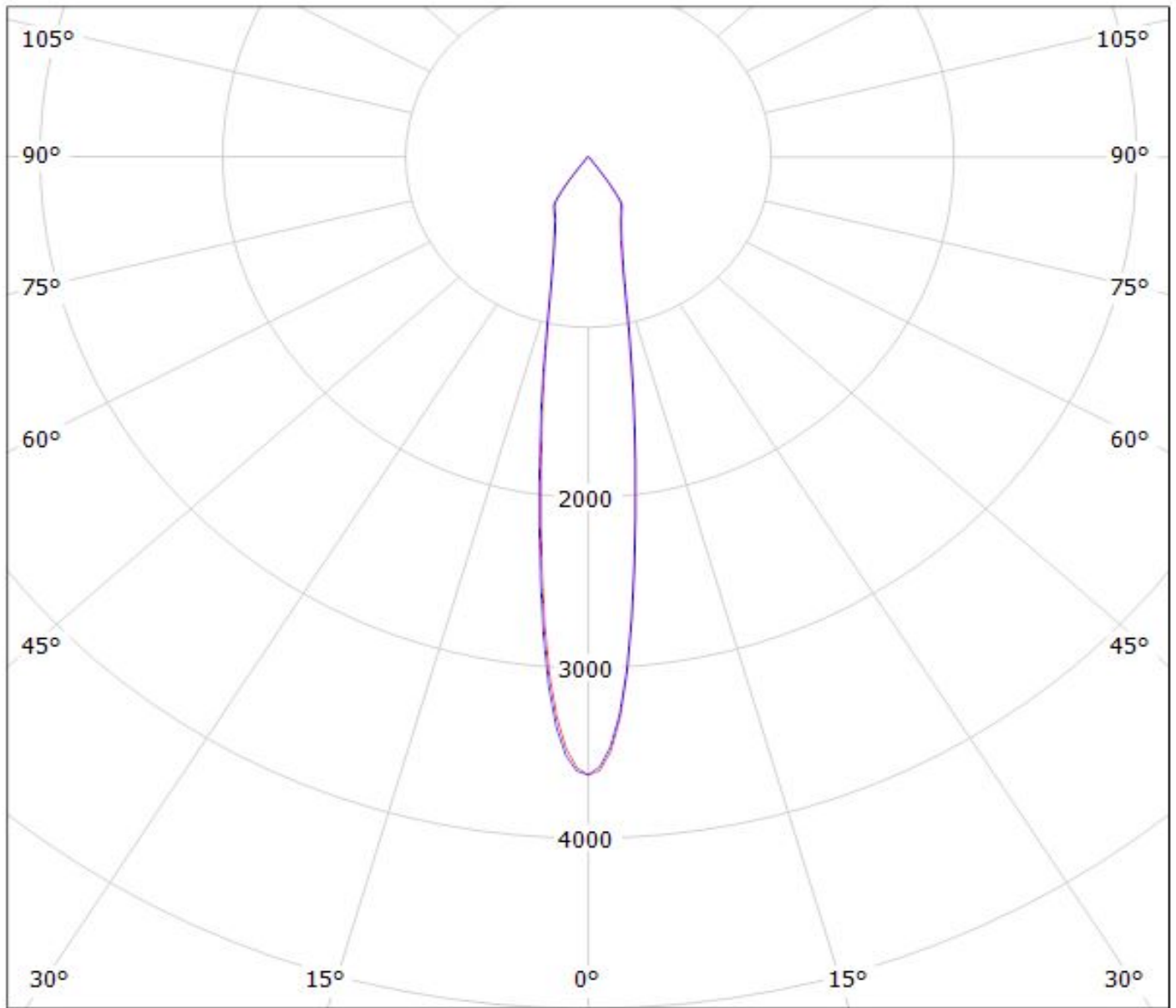
$\eta = 83\%$

— C0 - C180    — C90 - C270



Luminaire: LEDiL Oy F13663\_ANGELA-M-B\_(CLU034)

Lamps: 1 x Citizen\_CLU034\_(CLU034-1205B8-303M1A2)\_1159.11lm@250mA\_P=8.46586W\_I=249.9mA



cd/klm

— C0 - C180

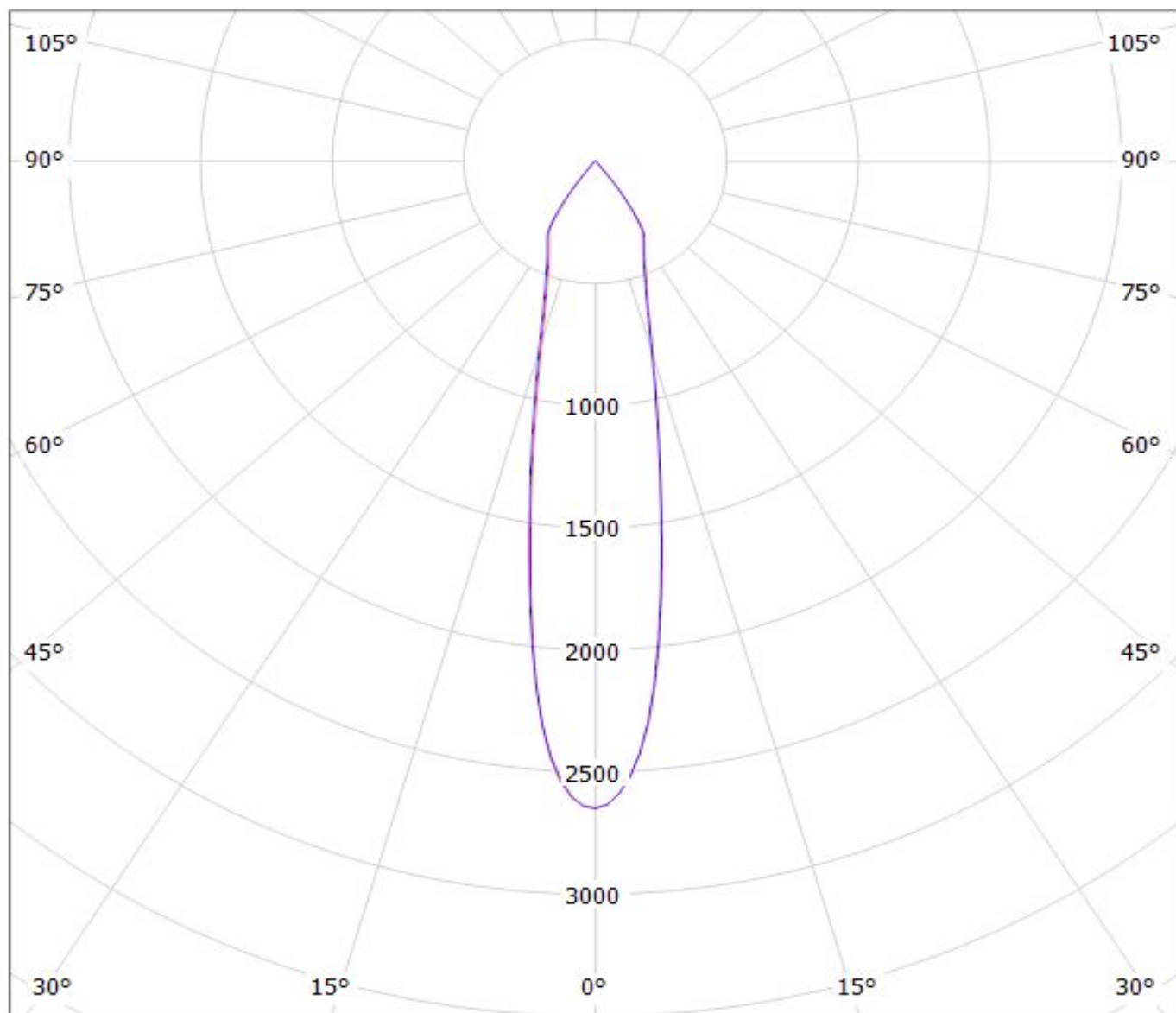
— C90 - C270

$\eta = 83\%$



Luminaire: LEDiL Oy F13663\_ANGELA-M-B\_(CLU044)

Lamps: 1 x Citizen\_CLU044\_(CLU044-1212B8-303M1A2)\_1300.9lm@250mA\_P=8.14849W\_I=249.9mA



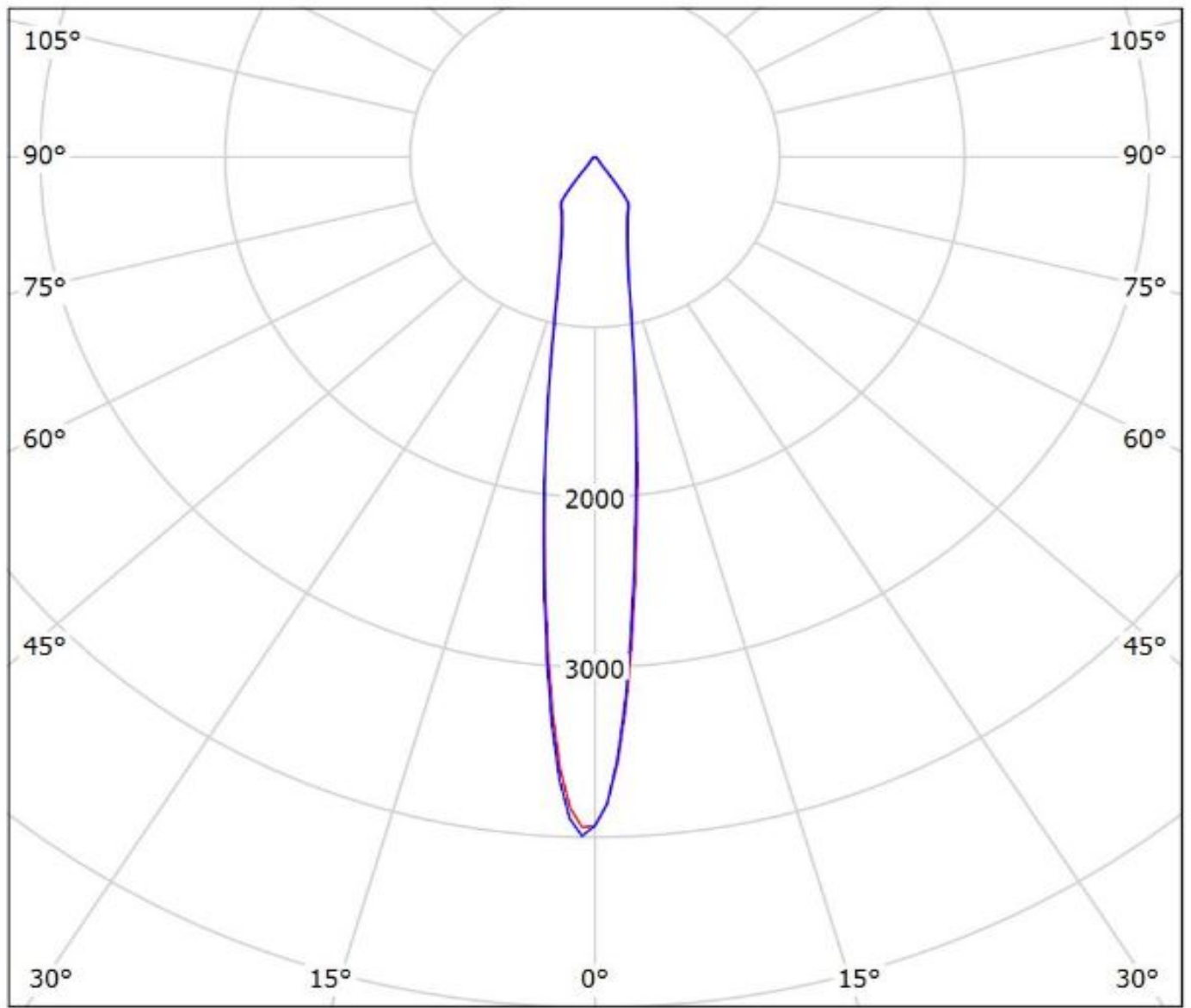
cd/klm

$\eta = 81\%$

— C0 - C180

— C90 - C270

Luminaire: Ledil F13663\_ANGELA-M-B\_(CITIZEN\_CLU720)  
Lamps: 1 x CITIZEN\_CLU720\_(CLU720-1206B8-273M2)  
\_1320.42lm@250mA\_CCT=2700K\_P=8.35W\_I=0.25A



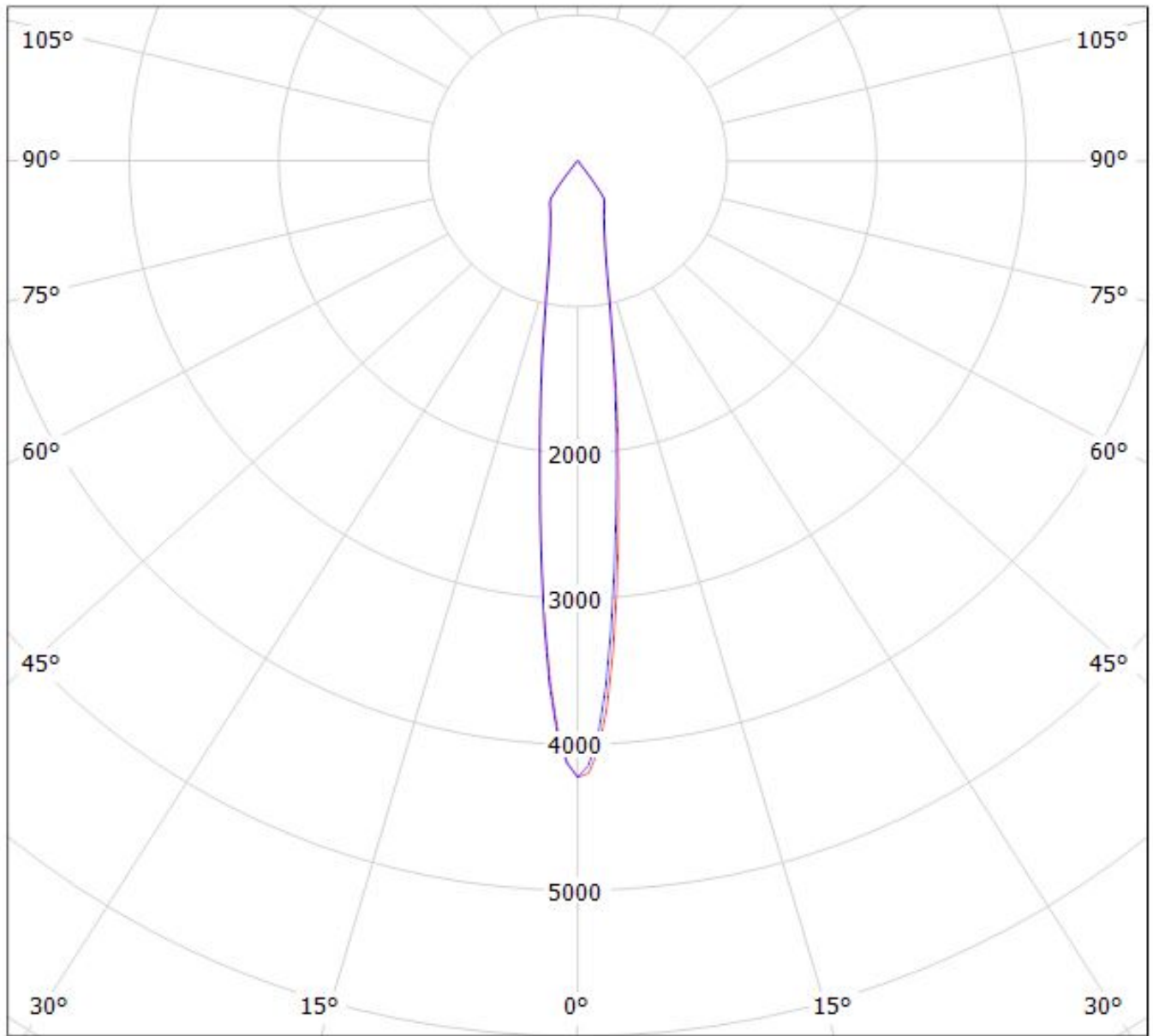
cd/klm

— C0 - C180 — C90 - C270

$\eta = 83\%$

Luminaire: LEDiL Oy F13663\_ANGELA-M-B\_(CITIZEN\_CLU720)

Lamps: 1 x CITIZEN\_CLU720\_(BJB: 47.319.2020)\_1214.68lm@250mA\_CCT=2700K\_P=8.31842W\_I=0.25A



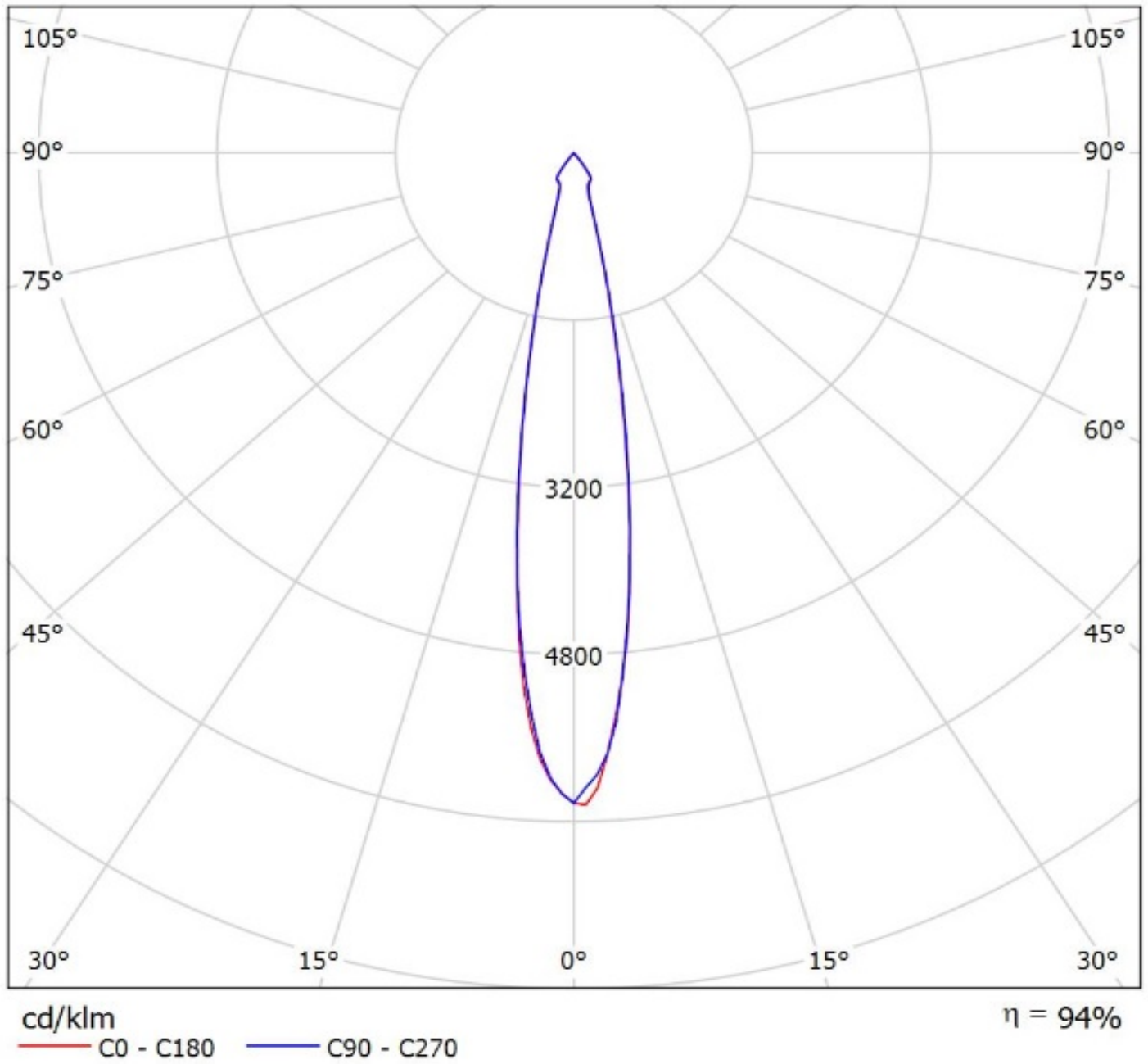
$\eta = 82\%$

cd/klm

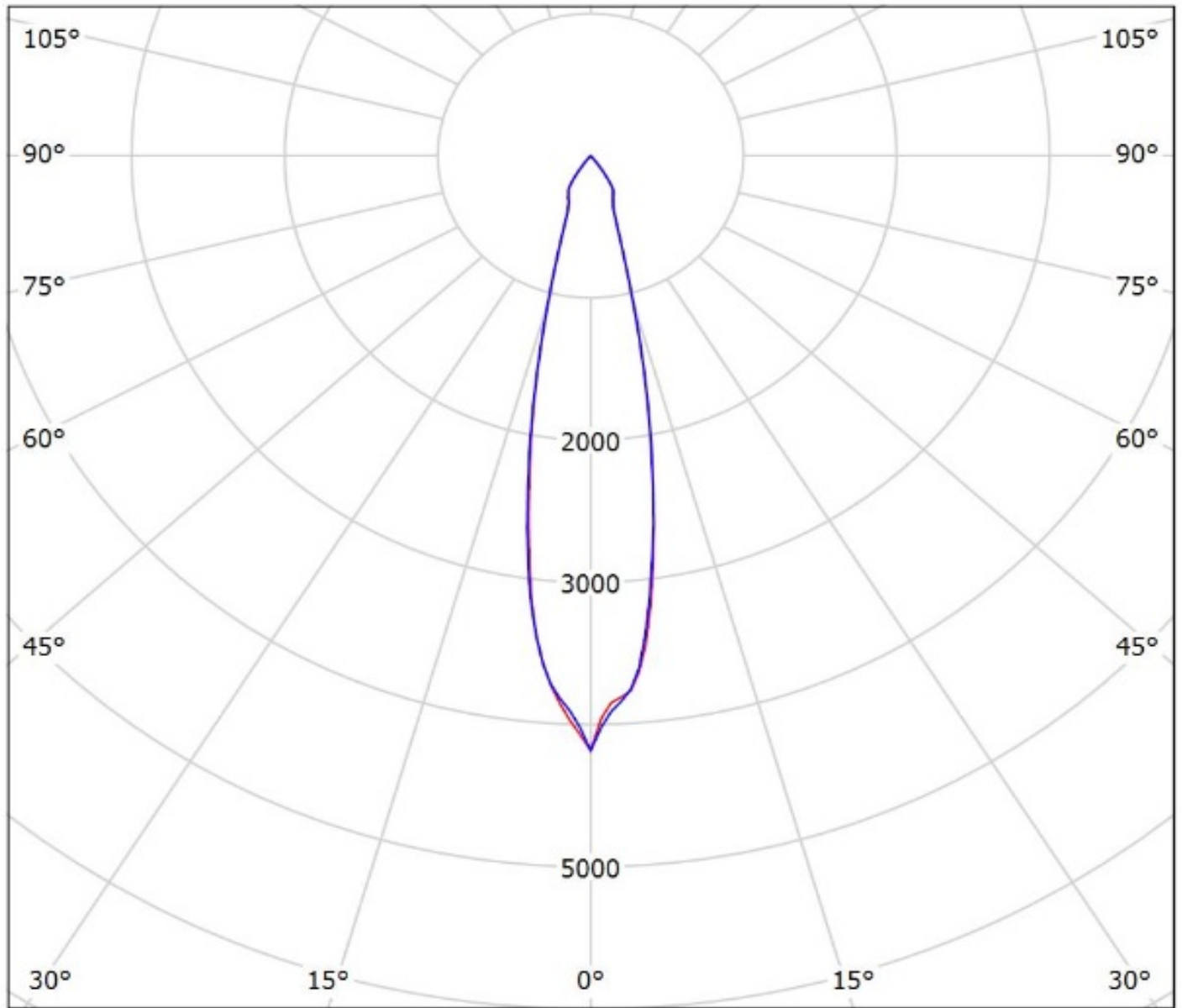
— C0 - C180

— C90 - C270

Luminaire: Ledil Oy F13663\_ANGELA-M-B\_(CLU038)\_(47\_319\_2021)\_SIMULATED  
Lamps: 1 x Citizen CLU038-1210C4-303M2K1 + BJB 47.319.2021 connector



Luminaire: Ledil Oy F13663\_ANGELA-M-B\_(CLU048)\_(47\_319\_2030)\_SIMULATED  
Lamps: 1 x Citizen CLU048-1818C4-303M2K1 + BJB47.319.2030 connector



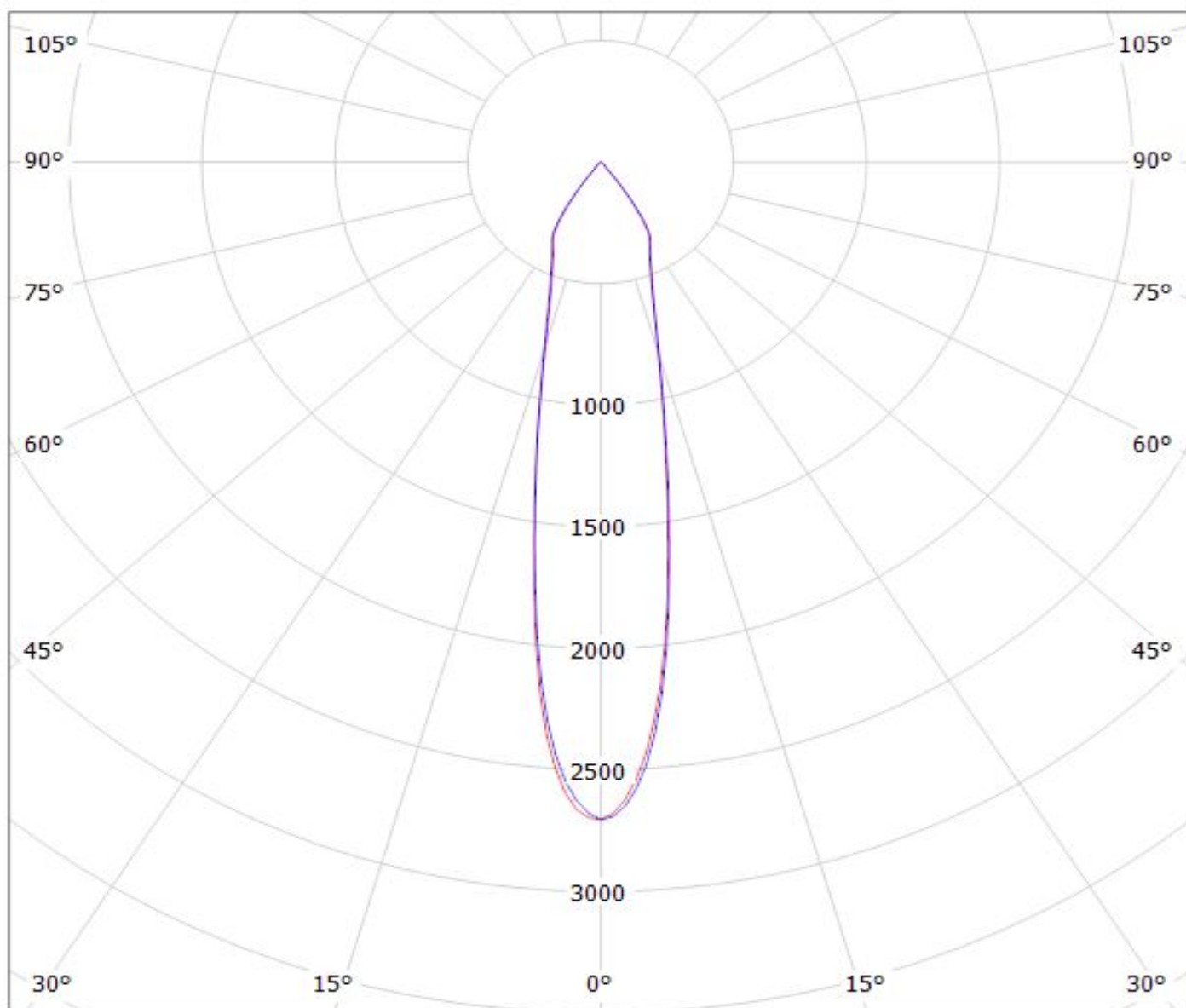
cd/klm

— C0 - C180 — C90 - C270

$\eta = 88\%$

Luminaire: LEDiL Oy F13663\_ANGELA-M-B\_(CXA30)

Lamps: 1 x Cree\_CXA30\_(CXA3050-3C0-Y2-N0H)\_1395.36lm@250mA\_P=8.20318W\_I=249.8mA



cd/klm

— C0 - C180

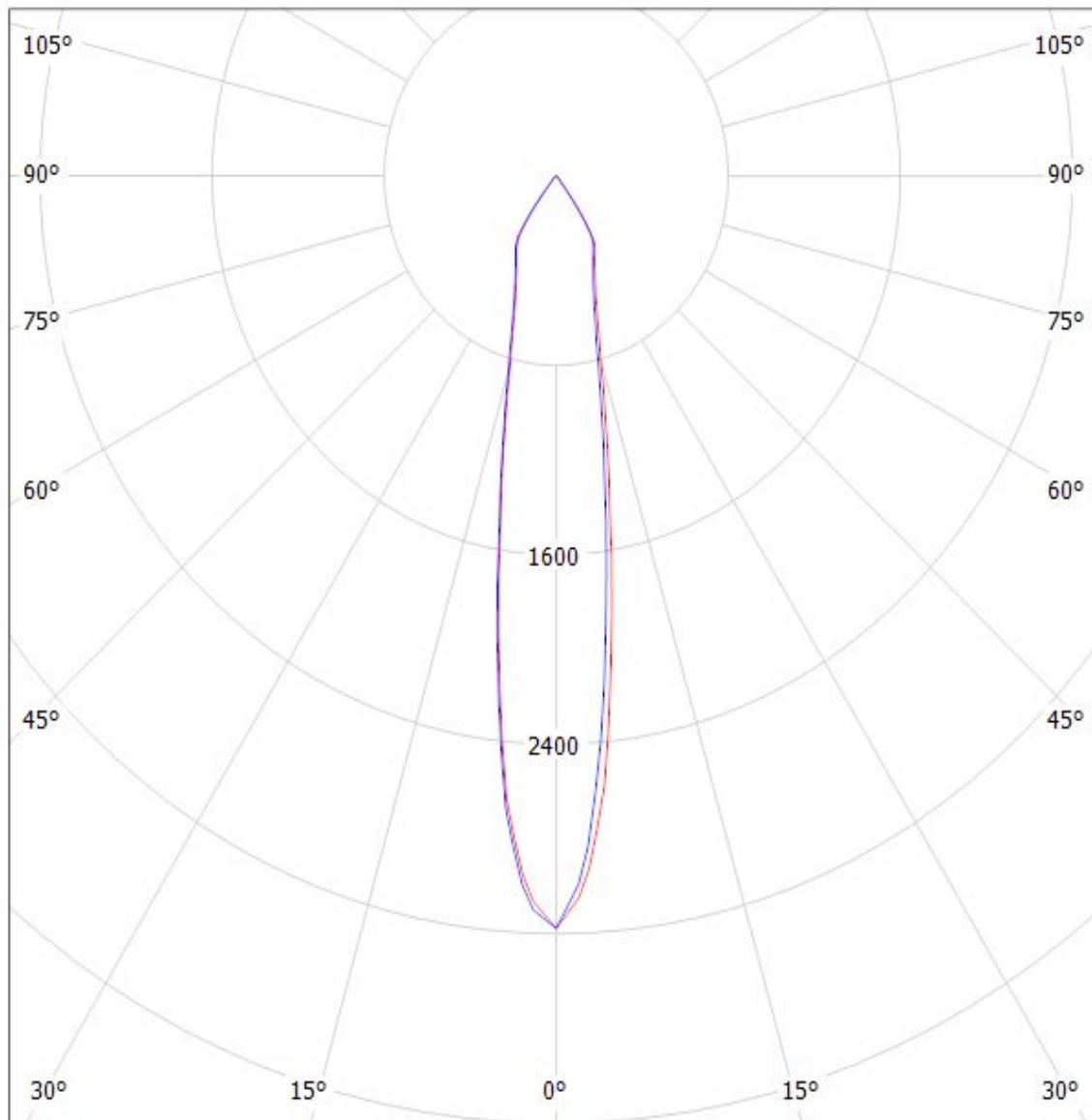
— C90 - C270

$\eta = 80\%$



Luminaire: LEDiL Oy F13663\_ANGELA-M-B\_(CXA2590)

Lamps: 1 x CREE\_CXA2590\_(CXA2590-30F-Z4-RPH-00001)\_837.275lm@100mA\_CCT=3000K\_P=6.36316W\_I=100.1mA



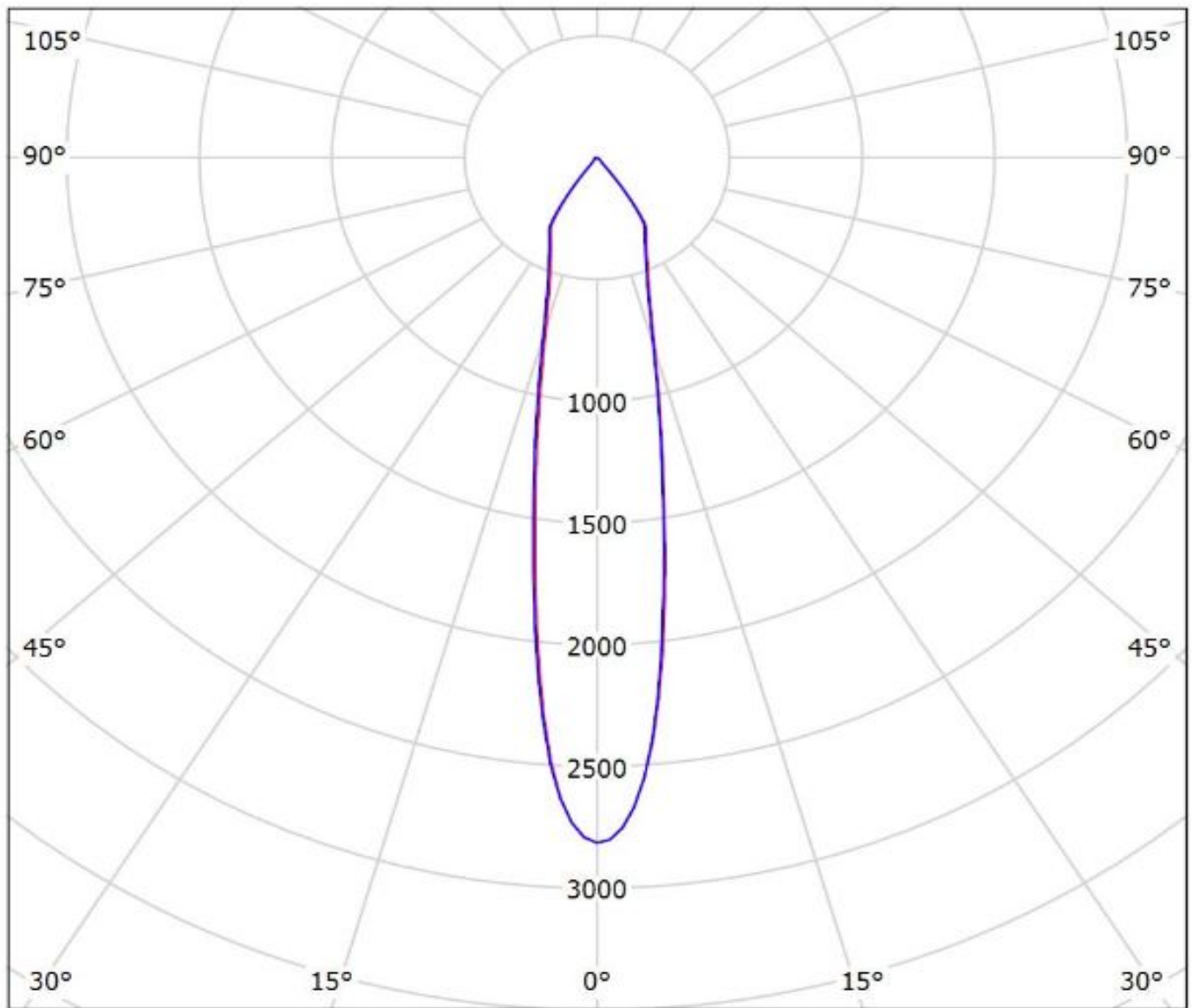
cd/klm

— C0 - C180

— C90 - C270

$\eta = 82\%$

Luminaire: Ledil F13663\_ANGELA-M-B\_(CXB2540+\_BJB\_47.319.2140)  
Lamps: 1 x CREE\_CXB2540\_(-40G-W4-N0H-00002)  
+\_BJB\_47.319.2140\_1412.99lm@250mA\_CCT=40000K\_P=8.1310W\_I=0.25A



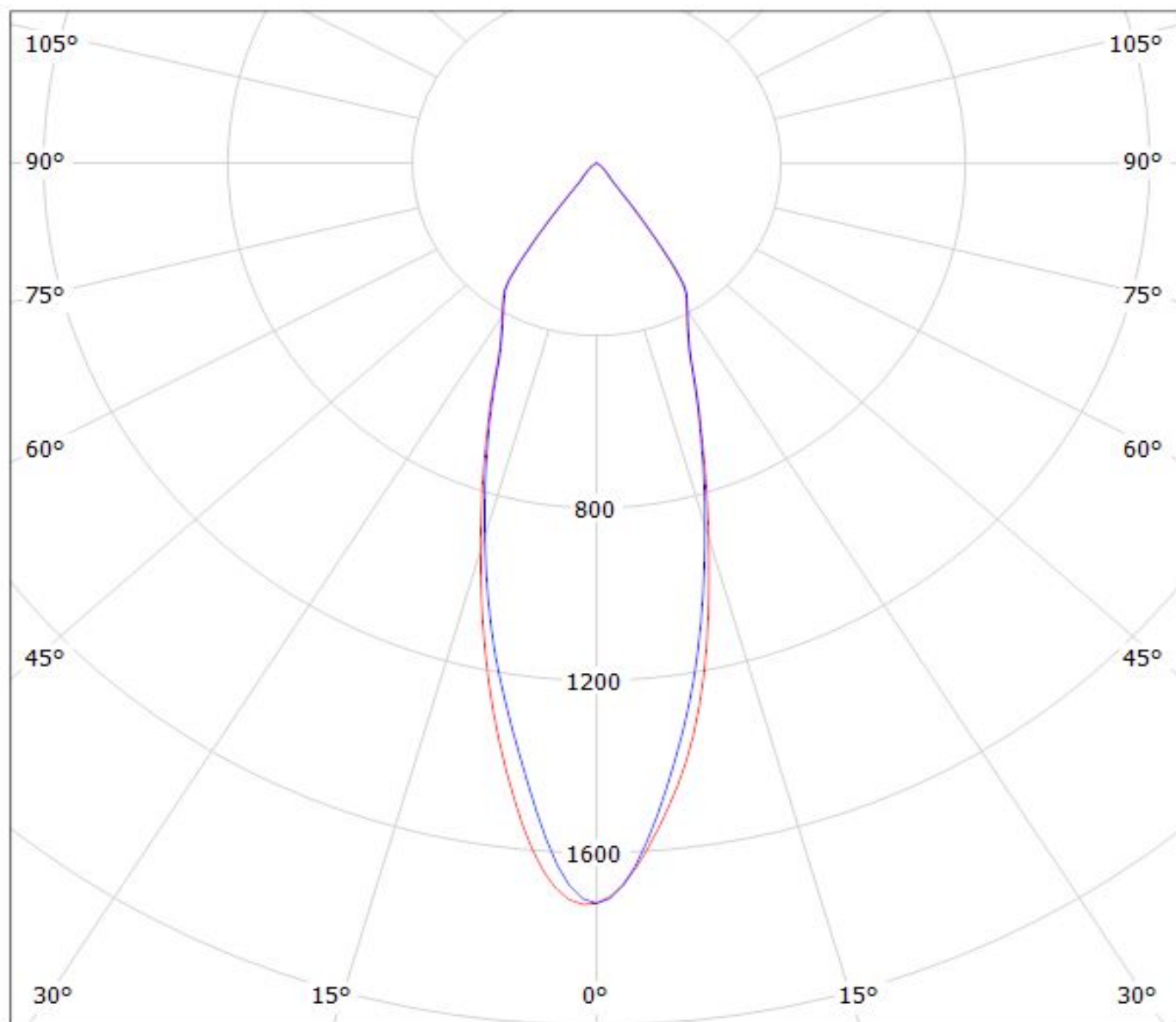
cd/klm  
— C0 - C180 — C90 - C270

$\eta = 79\%$



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



cd/klm

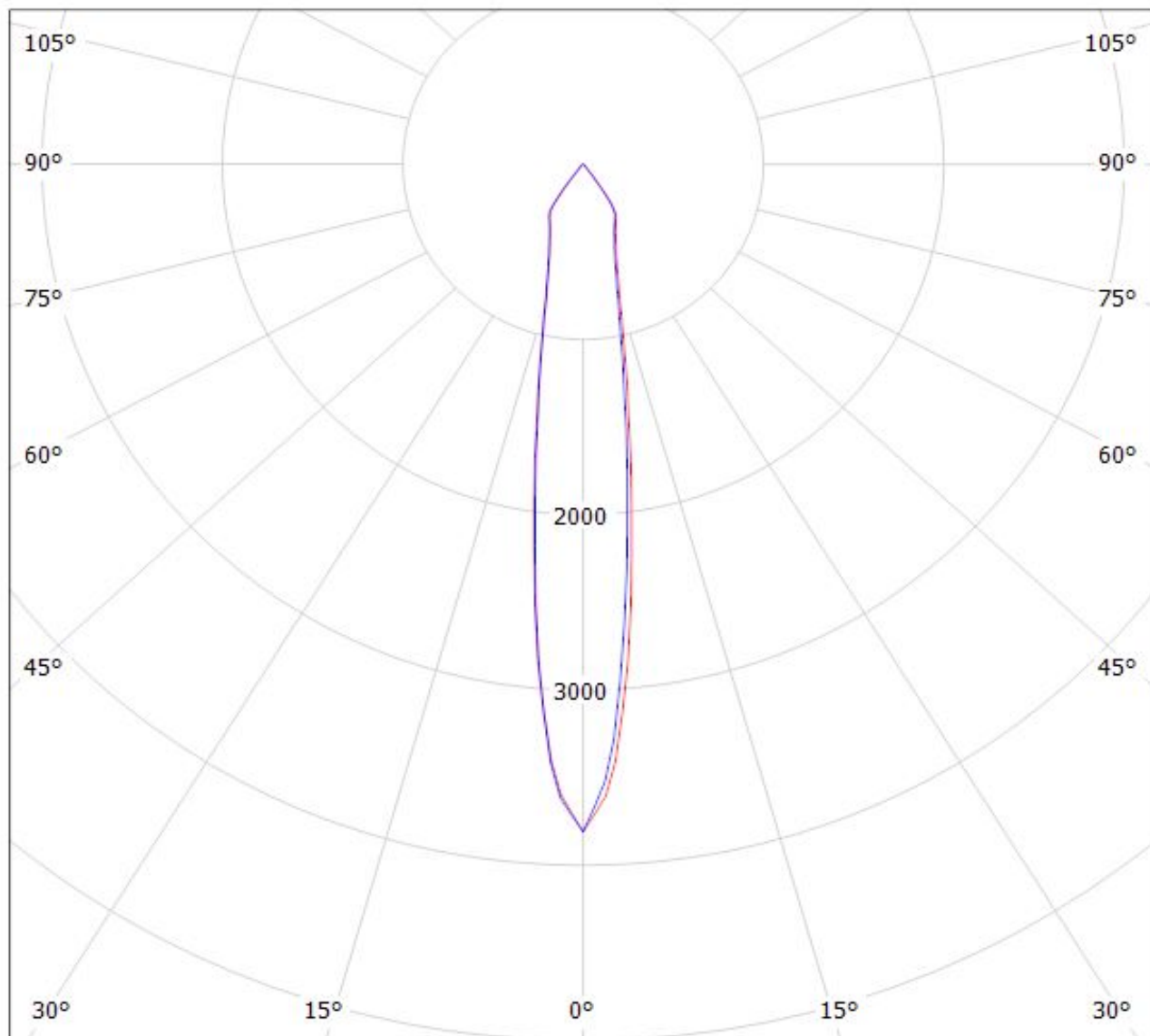
— C0 - C180

— C90 - C270

$\eta = 84\%$

Luminaire: LEDiL Oy F13663\_ANGELA-M-B\_(LG\_COB\_10W)

Lamps: 1 x LG\_COB\_10W\_(LEMWM18580LG00)\_917.757lm@250mA\_P=9.31304W\_I=249.8mA



cd/klm

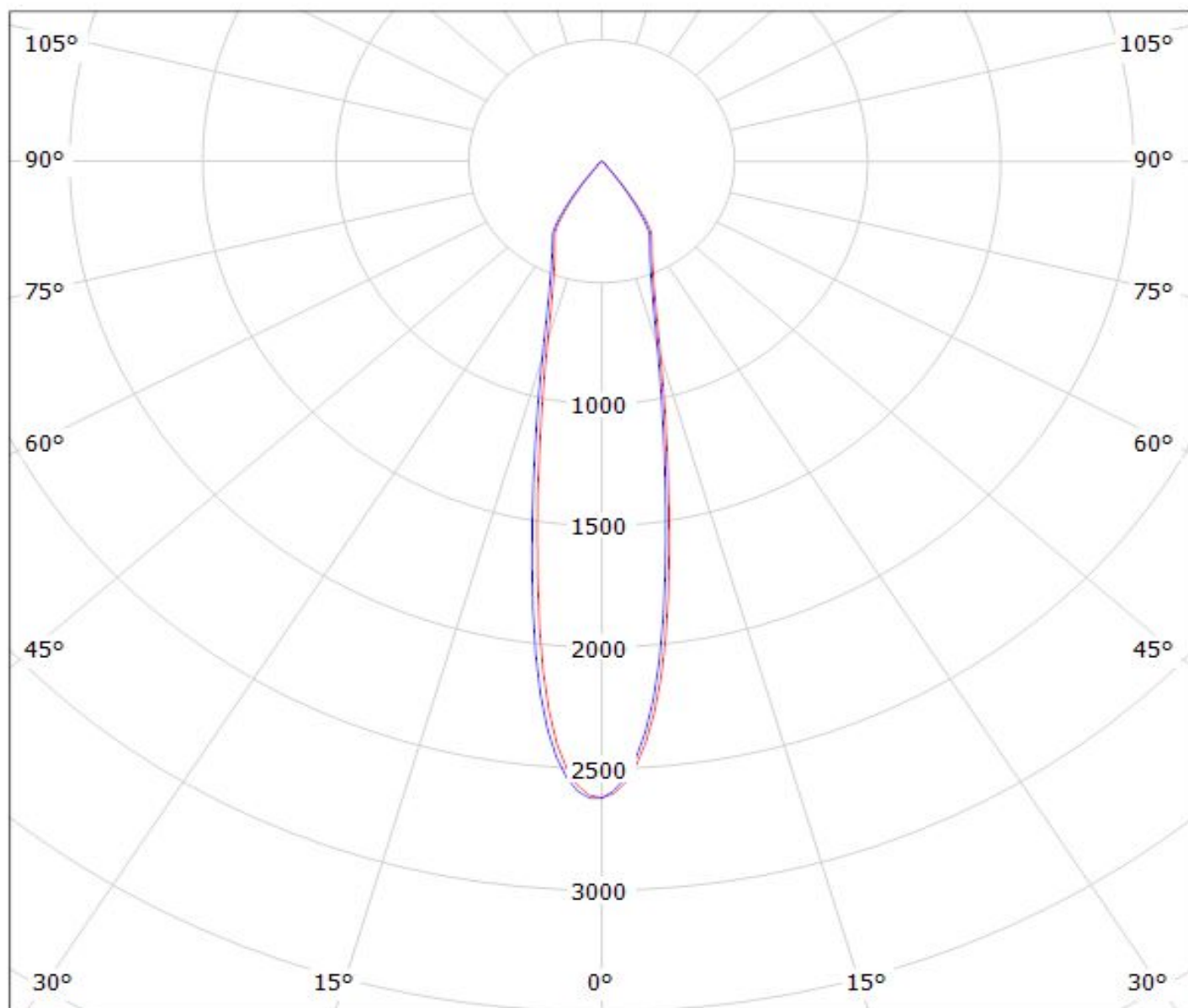
η = 83%

— C0 - C180

— C90 - C270

Luminaire: LEDiL Oy F13663\_ANGELA-M-B\_(COB\_40W)

Lamps: 1 x LG\_COB\_40W\_1163.3lm@250mA\_CCT=3000K\_P=8.04906W\_I=249.8mA



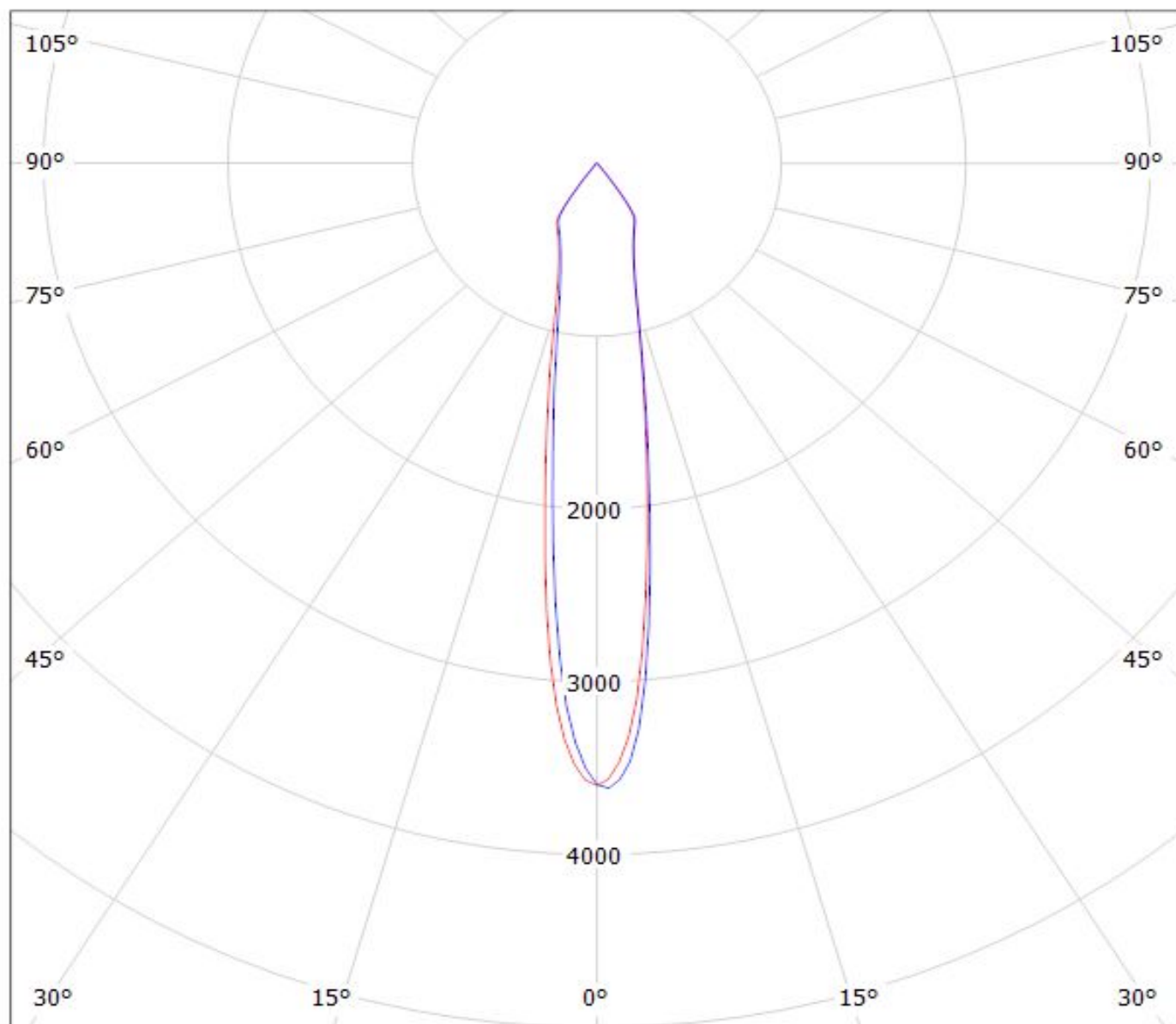
cd/klm

— C0 - C180

— C90 - C270

$\eta = 81\%$

Luminaire: LEDiL Oy F13663\_ANGELA-M-B\_(K16) Eff.87.9%  
Lamps: 1 x Luxeon\_K16\_1224.2lm@250mA\_P=10.8991W\_U=249.9mA

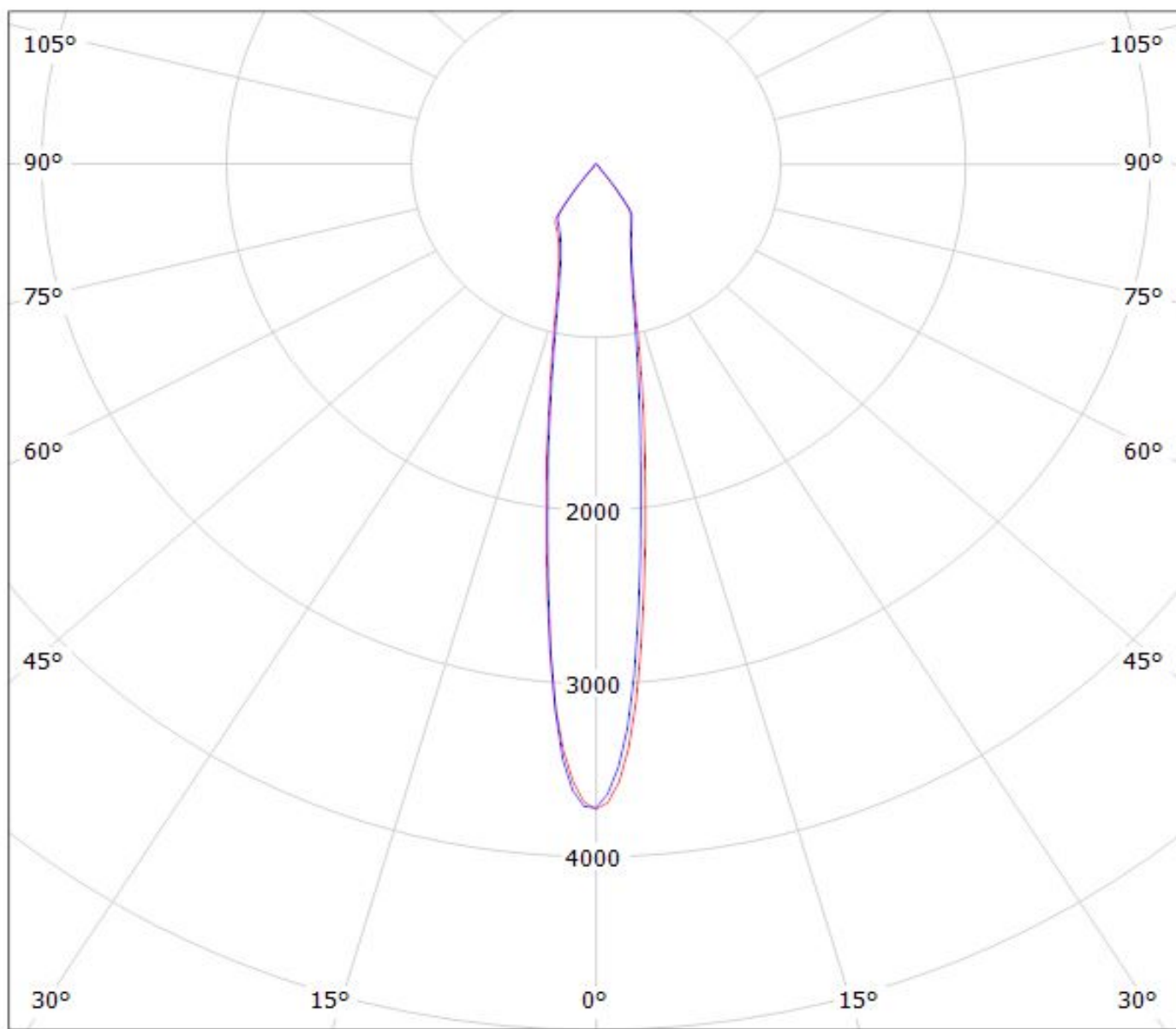


cd/klm

— C0 - C180 — C90 - C270

$\eta = 88\%$

Luminaire: LEDiL Oy F13663\_ANGELA-M-B\_(K12) Eff.86.5%  
Lamps: 1 x Luxeon\_K12\_933.514lm@250mA\_P=8.21721W\_I=249.9mA

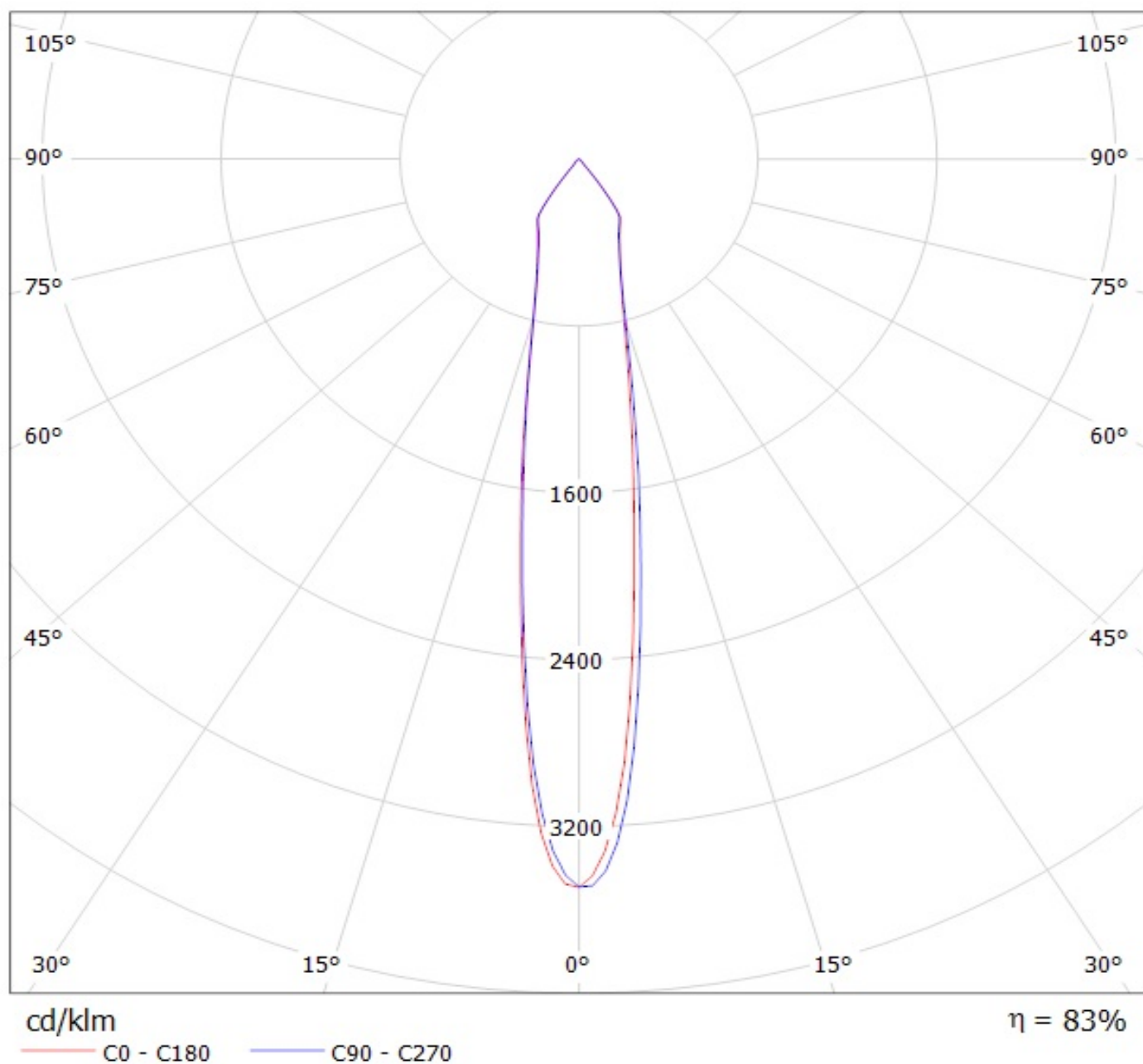


cd/klm

$\eta = 86\%$

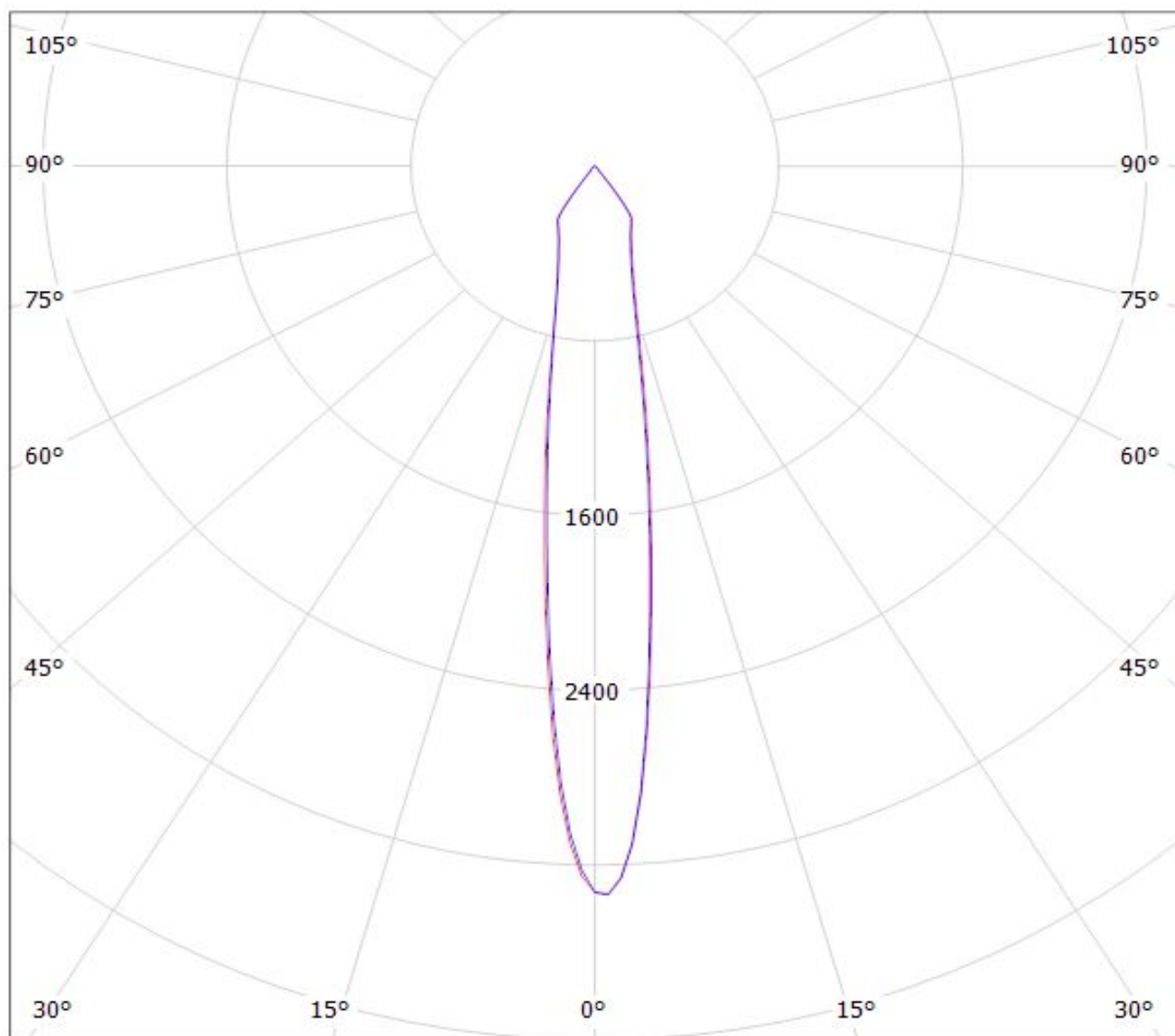
— C0 - C180    — C90 - C270

Luminaire: LEDiL Oy F13663\_ANGELA-M-B\_(Luxeon\_CoB\_1208)  
Lamps: 1 x Luxeon\_CoB\_1208\_1045.92lm@250mA\_P=8.25314W\_I=249.8mA



Luminaire: LEDiL Oy F13663\_ANGELA-M-B\_(Luxeon\_CoB\_1205)

Lamps: 1 x LUXEON\_COB\_1205\_(LHC1-3080-1205)\_1274.35lm@250mA\_CCT=3000K\_P=11.183W\_I=249.8mA



cd/klm

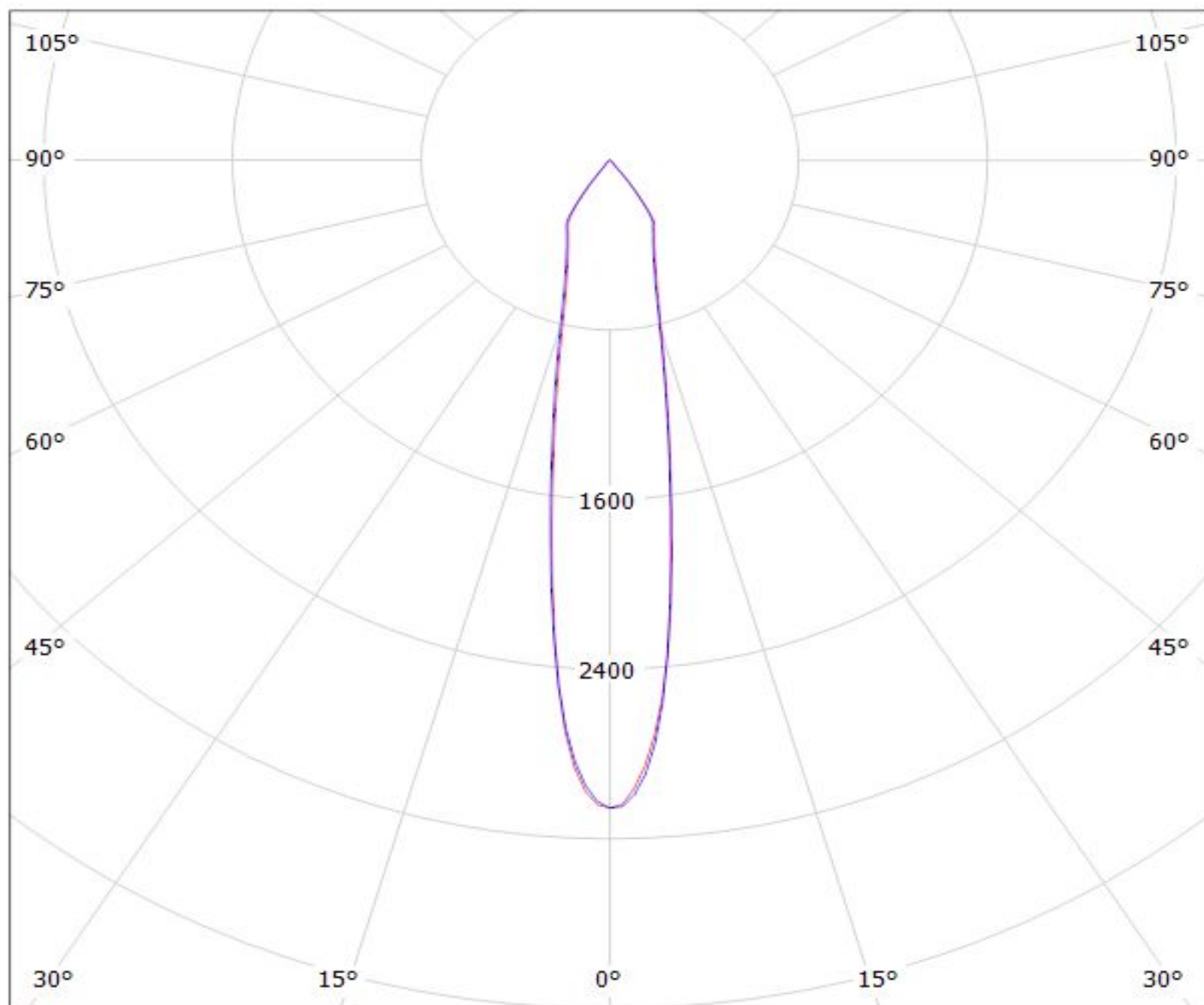
— C0 - C180

— C90 - C270

$\eta = 72\%$



Luminaire: LEDiL Oy F13663\_ANGELA-M-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

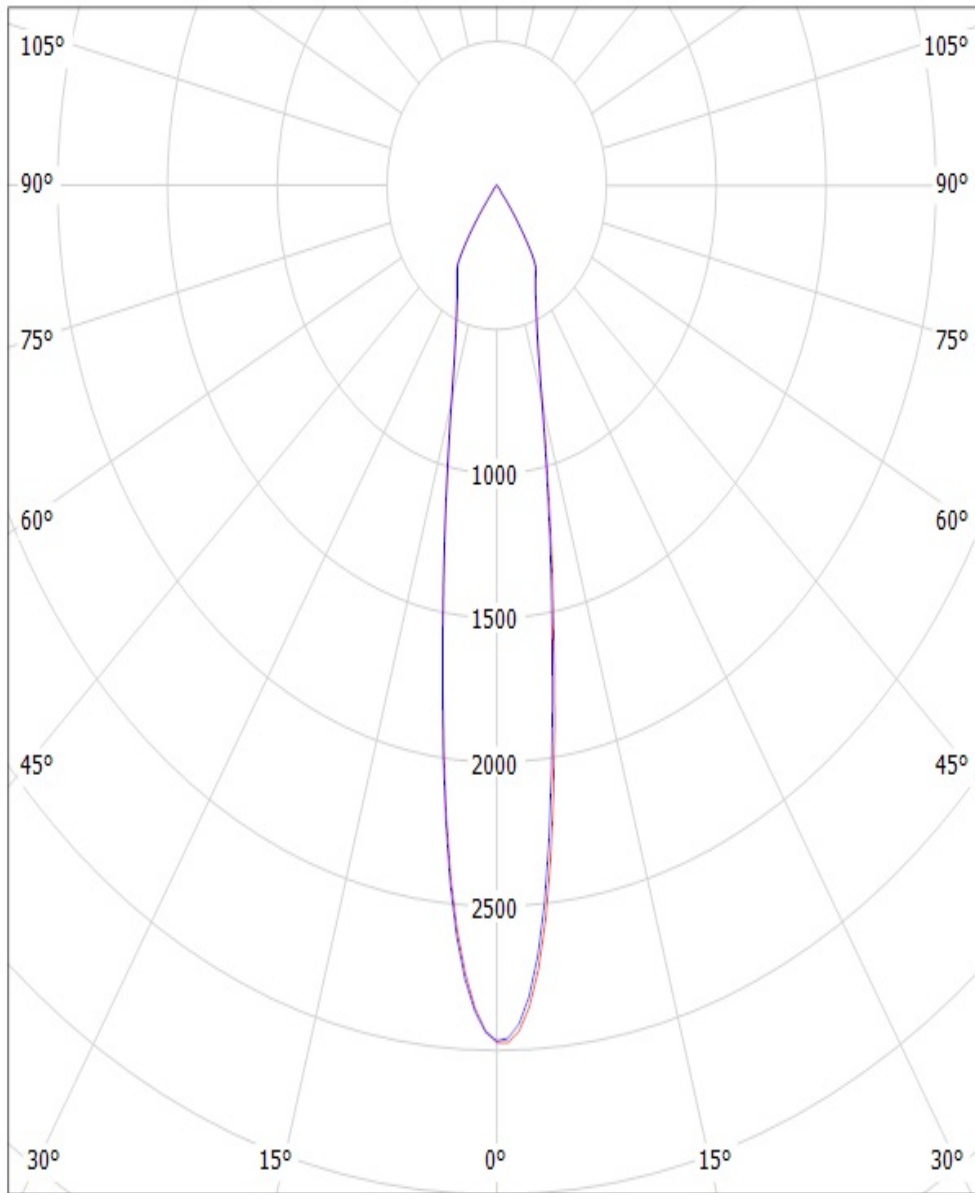
— C0 - C180 — C90 - C270

$\eta = 81\%$



Luminaire: LEDiL Oy F13663\_ANGELA-M-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



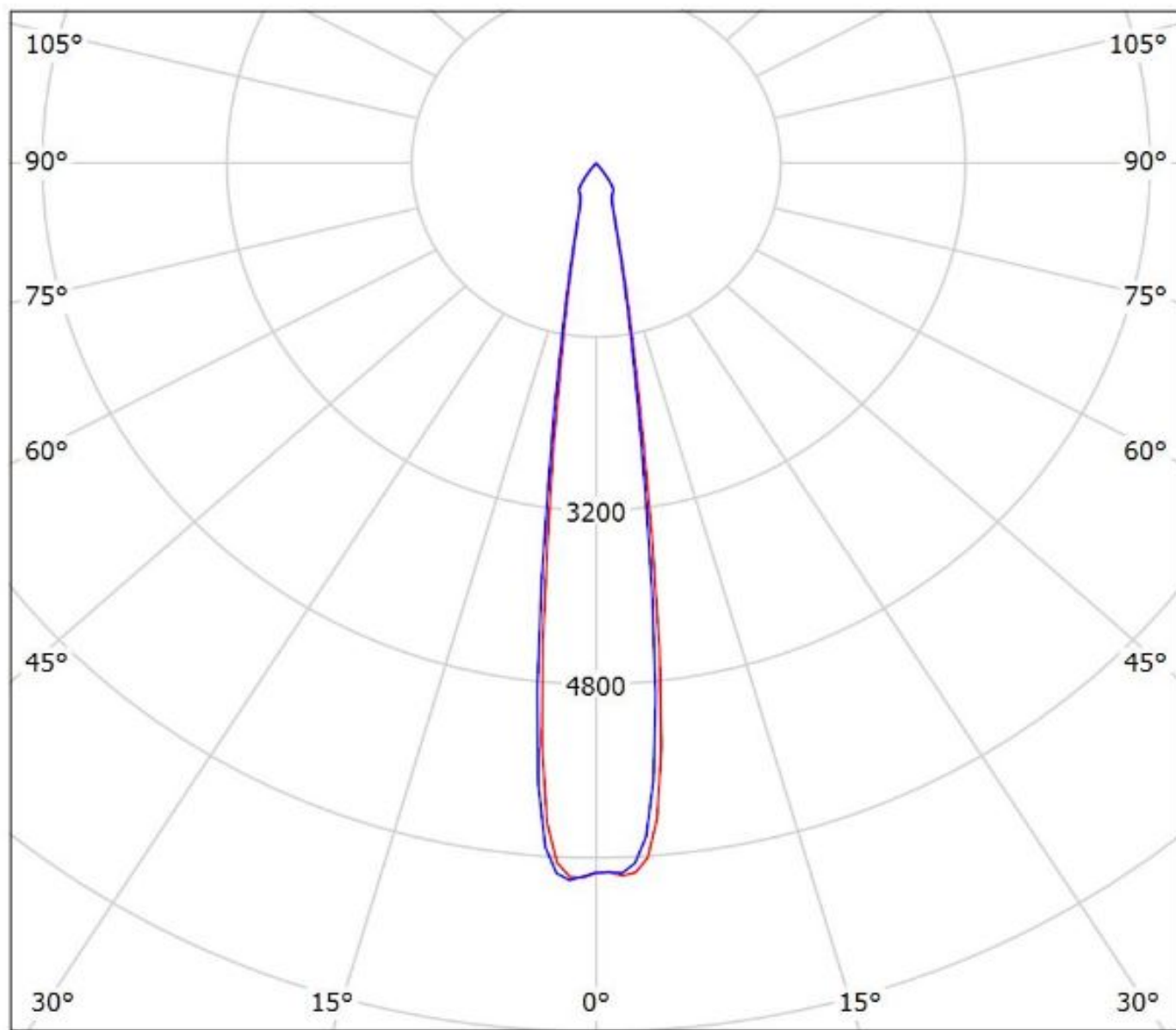
cd/klm

$\eta = 80\%$

— C0 - C180 — C90 - C270

Luminaire: Ledil F13662\_ANGELA-S-B\_(CoB\_1216)

Lamps: 1 x Luxeon\_CoB\_1216\_(L2C2-40801216E2300)\_1478.53lm@250mA\_P=8.0068W\_I=0.25A



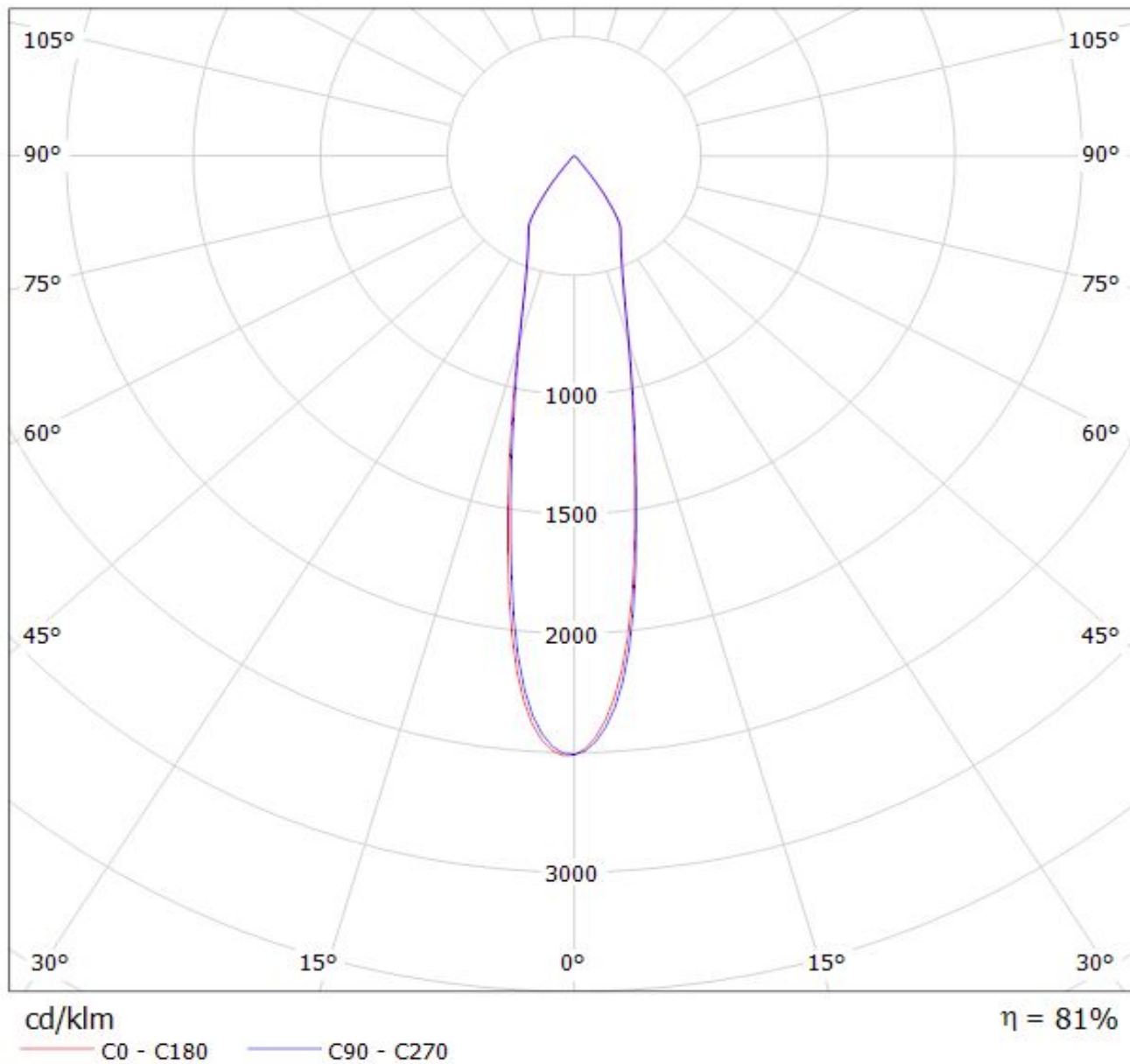
cd/klm

— C0 - C180 — C90 - C270

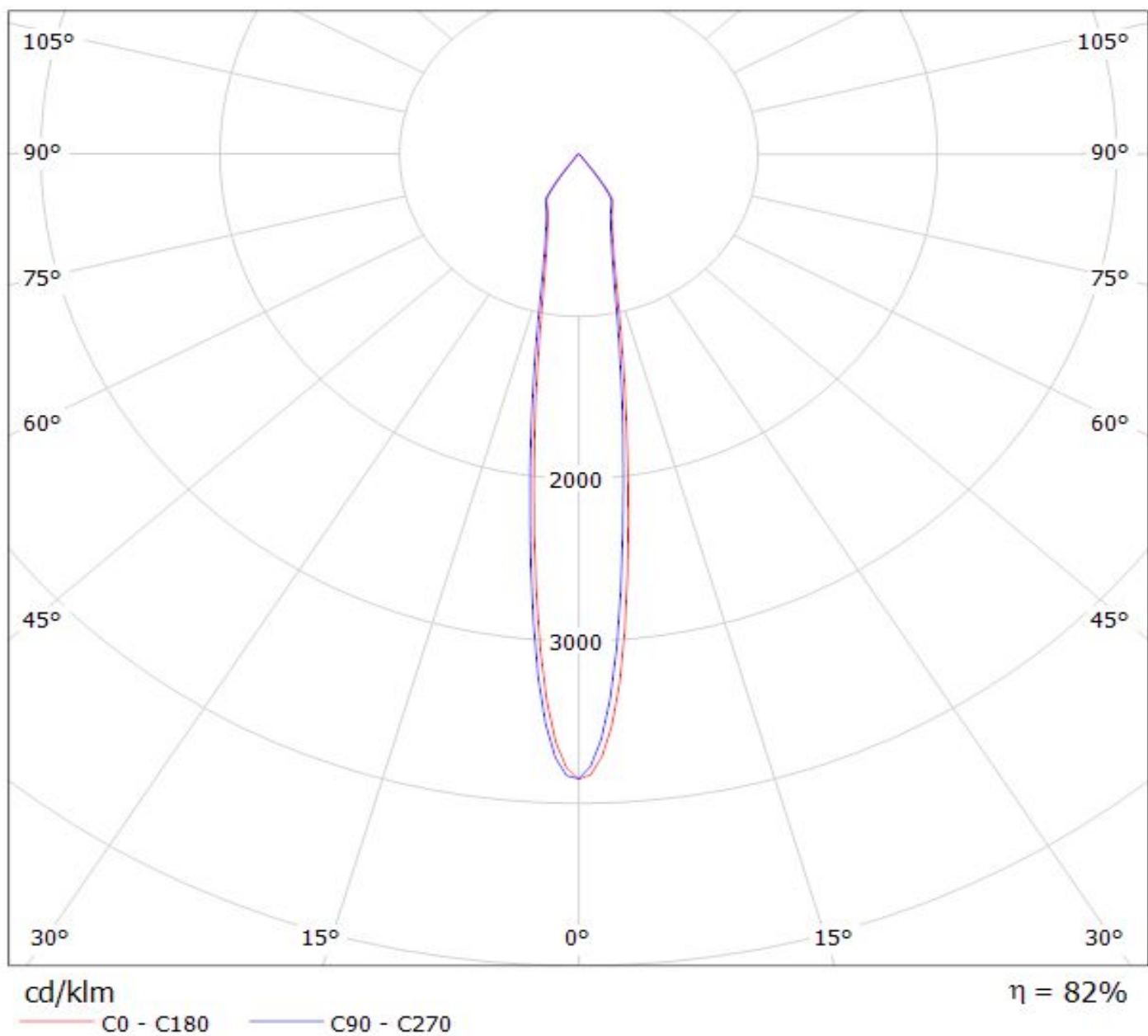
$\eta = 88\%$

Luminaire: LEDiL Oy F13663\_ANGELA-M-B\_(CXM-22) Eff.80.7%

Lamps: 1 x LUMINUS\_CXM-22\_1221.8lm@250mA\_P=8.00809W\_CCT=3000K\_I=249.8mA

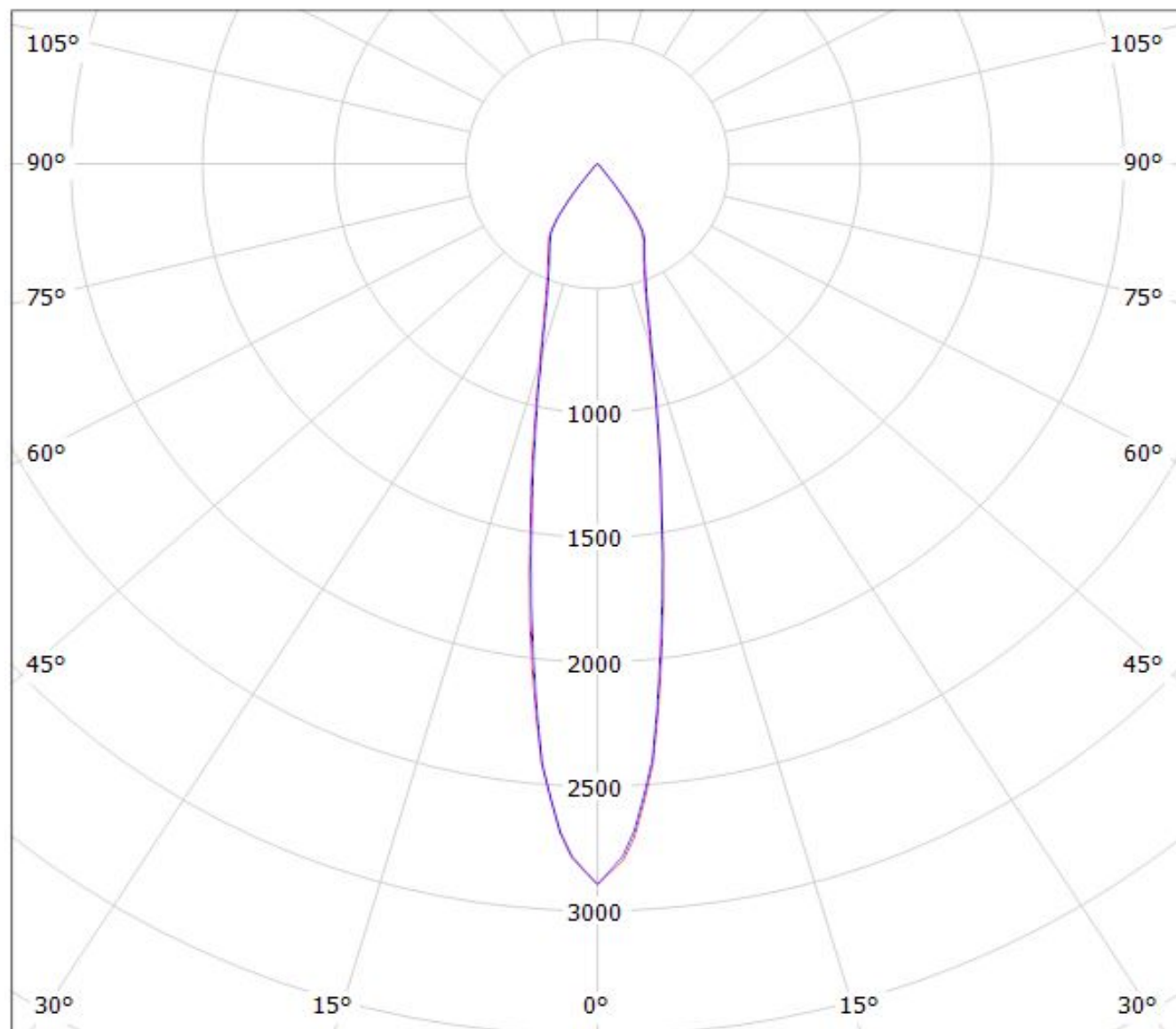


Luminaire: LEDiL Oy F13663\_ANGELA-M-B\_(CXM-14)  
Lamps: 1 x LUMINUS\_XNOVA\_CXM-14\_(AC00)  
\_1049.18lm@250mA\_CCT=3126K\_P=8.31834W\_I=249.8mA



Luminaire: LEDiL Oy F13663\_ANGELA-M-B\_(E30) Eff.80.7%

Lamps: 1 x Osram\_Soleriq\_E30\_1364.86lm@250mA\_P=10.2445W\_I=249.8mA



cd/klm

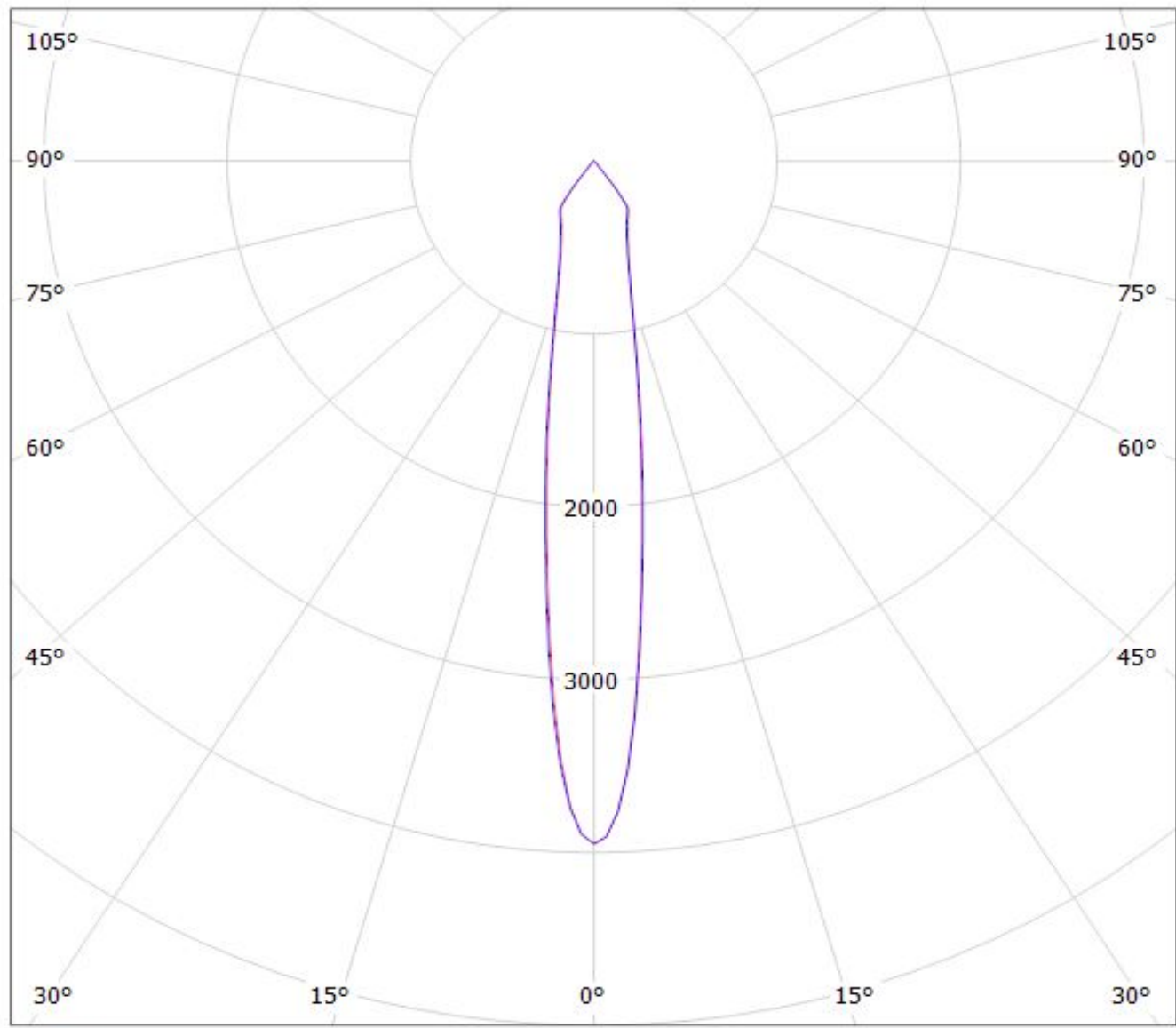
— C0 - C180

— C90 - C270

$\eta = 81\%$

Luminaire: LEDiL Oy F13663\_ANGELA-M-B\_(S13) Eff.83.2%

Lamps: 1 x Osram\_Solericq\_S13\_901.003lm@250mA\_P=7.48151W\_I=249.9mA

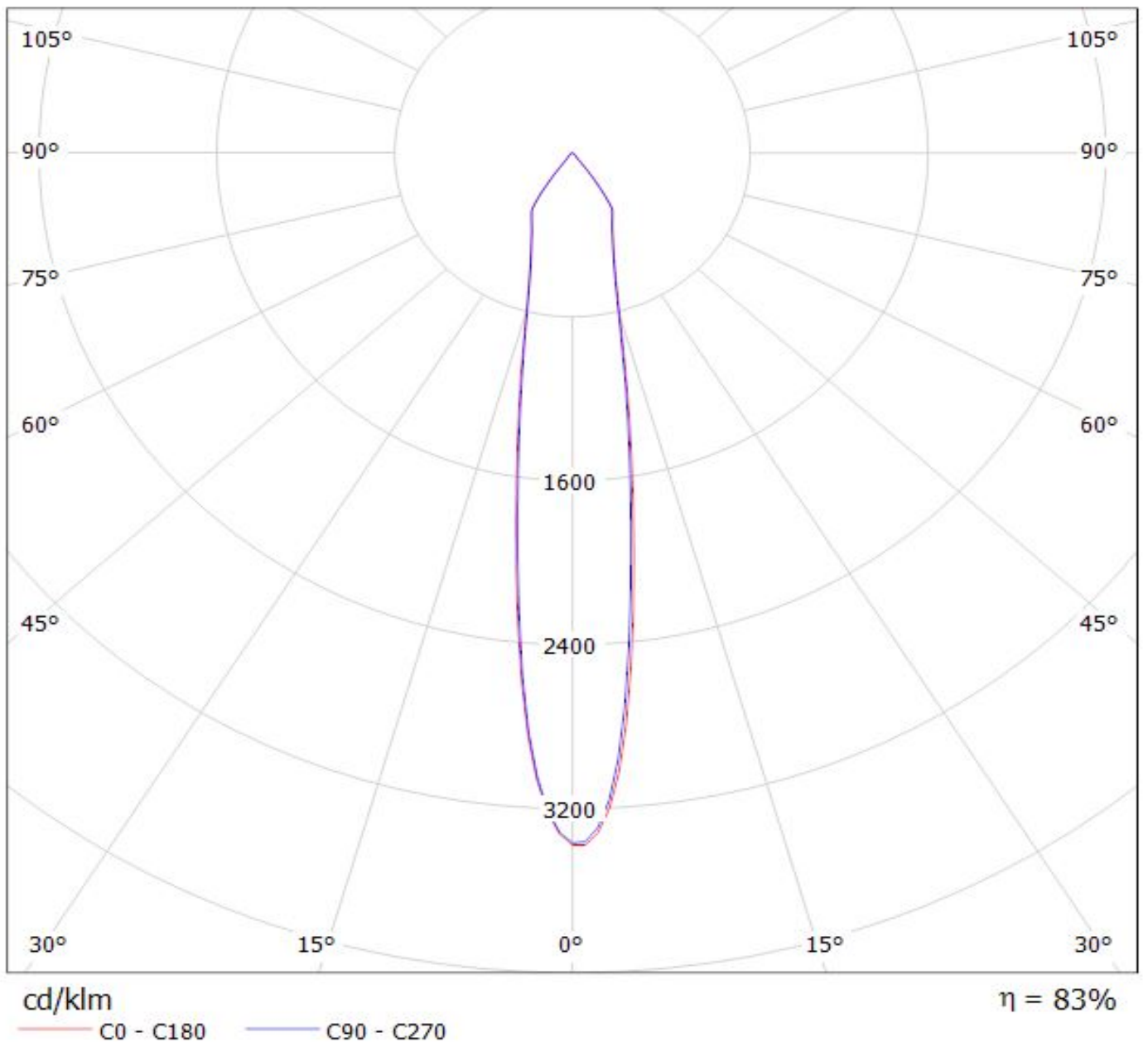


cd/klm

— C0 - C180    — C90 - C270

$\eta = 83\%$

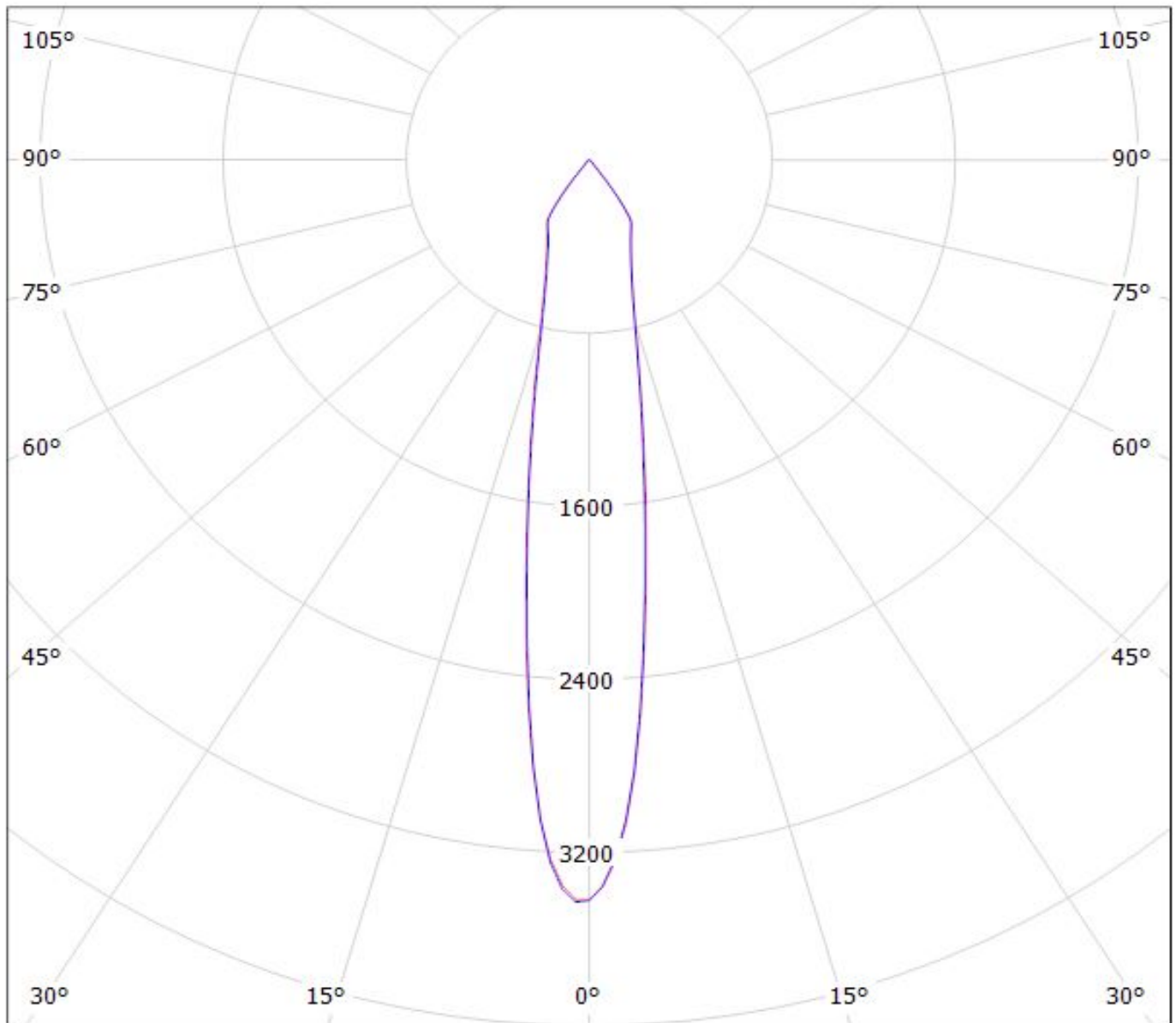
Luminaire: LEDiL Oy F13663\_ANGELA-M-B\_(Soleriq S19) Eff.82.6%  
Lamps: 1 x OSRAM\_SOLERIQ\_S19\_(GW\_KAHJB1.EM)  
\_1445.44lm@250mA\_CCT=3000K\_P=10.558W\_I=249.8mA





Luminaire: LEDiL Oy F13663\_ANGELA-M-B\_(S19) Eff.82.6%

Lamps: 1 x Osram\_SOLERIQ\_S19\_1434.85lm@250mA\_P=10.5595W\_I=249.8mA



cd/klm

$\eta = 82\%$

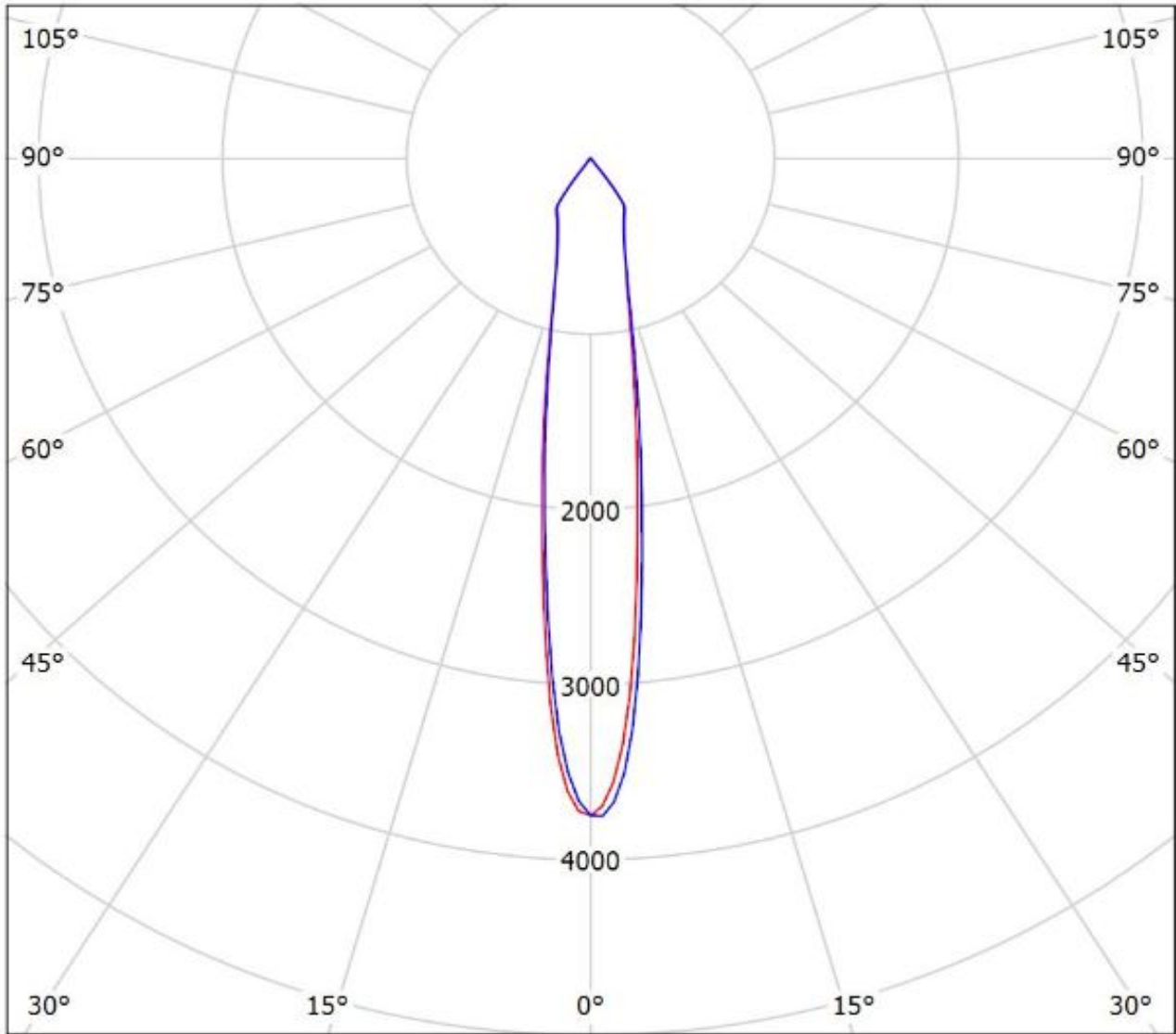
— C0 - C180

— C90 - C270



Luminaire: LEDiL Oy F13663\_ANGELA-M-B\_(SOLERIQ\_P13)

Lamps: 1 x SOLERIQ\_P13\_(GW\_MAGMB1.EM)\_1053.65lm@250mA\_CCT=3000K\_P=8.82044W\_I=249.8mA



$\eta = 83\%$

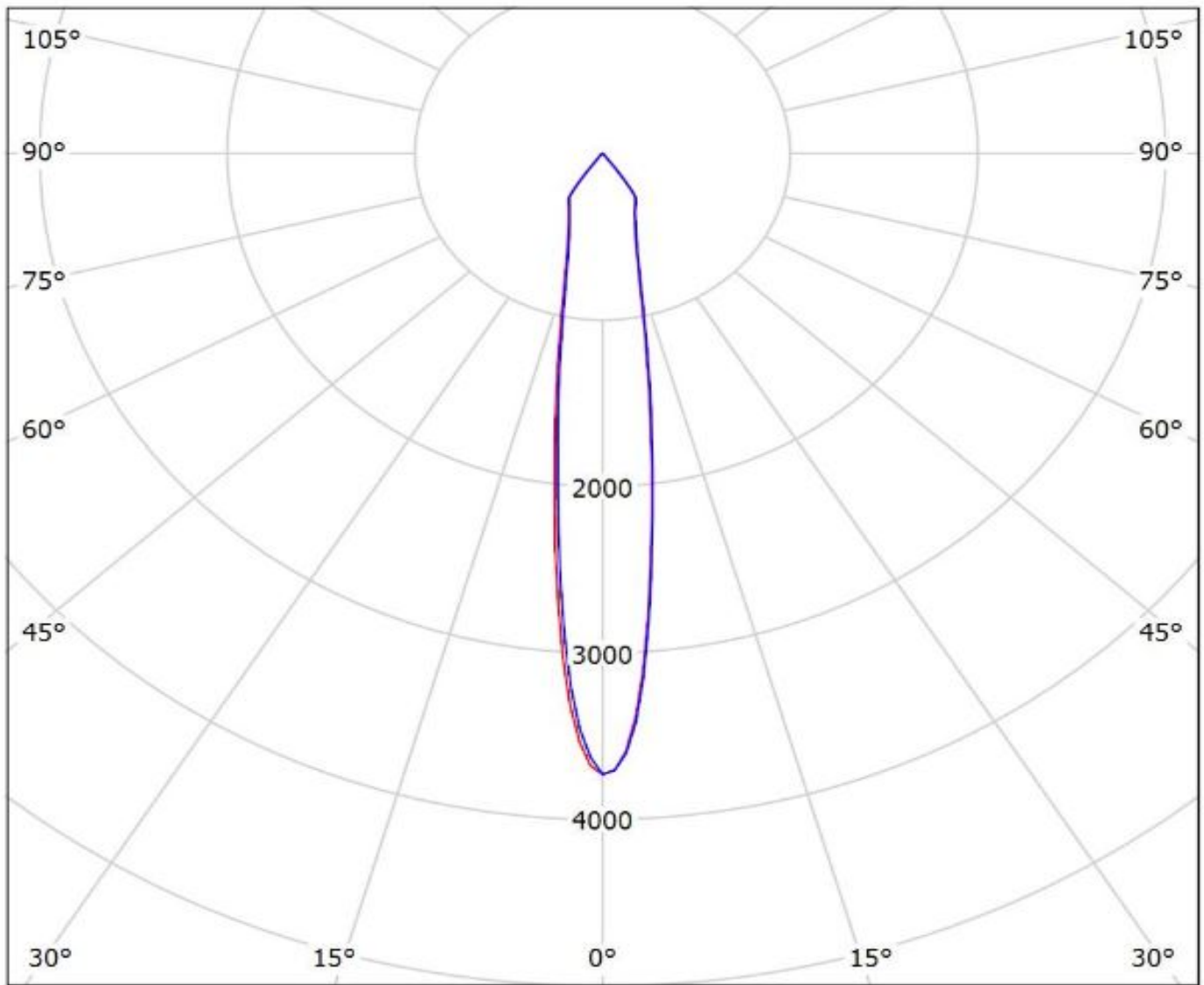
cd/klm

— C0 - C180

— C90 - C270

Luminaire: Ledil F13663\_ANGELA-M-B\_(Soleriq\_S13\_G2)

Lamps: 1 x Osram\_Soleriq\_S13\_G2\_(GW\_KAGHB2.EM)1353.18lm@250mA\_P=8.46W\_I=0.25A

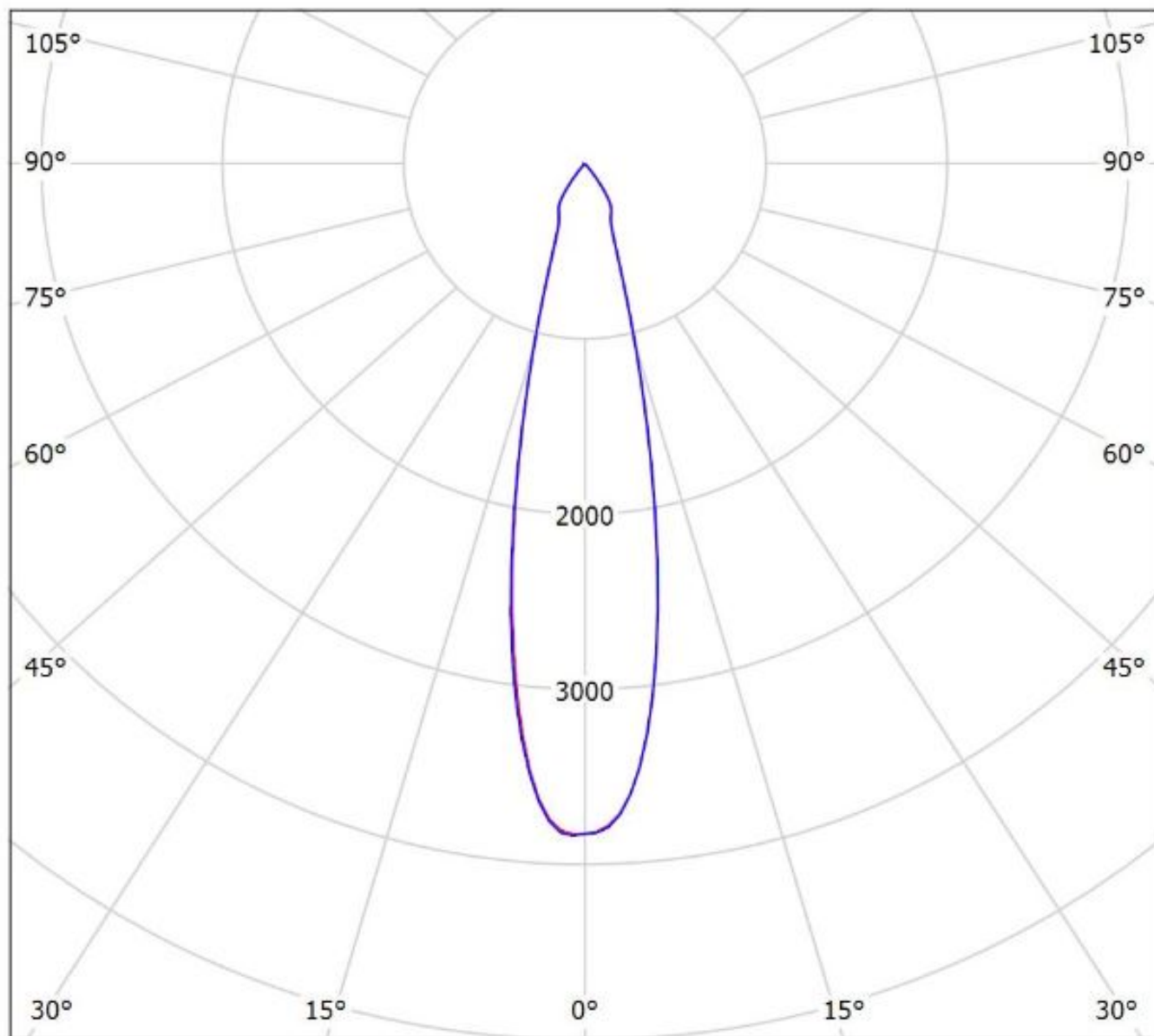


cd/klm

— C0 - C180 — C90 - C270

$\eta = 80\%$

Luminaire: Ledil Oy F13663\_ANGELA-M-B+\_BJB\_47.319.2030\_SAMSUNG\_COB\_D\_LC040D\_SIMULATED  
Lamps: 1 x SAMSUNG LC040D



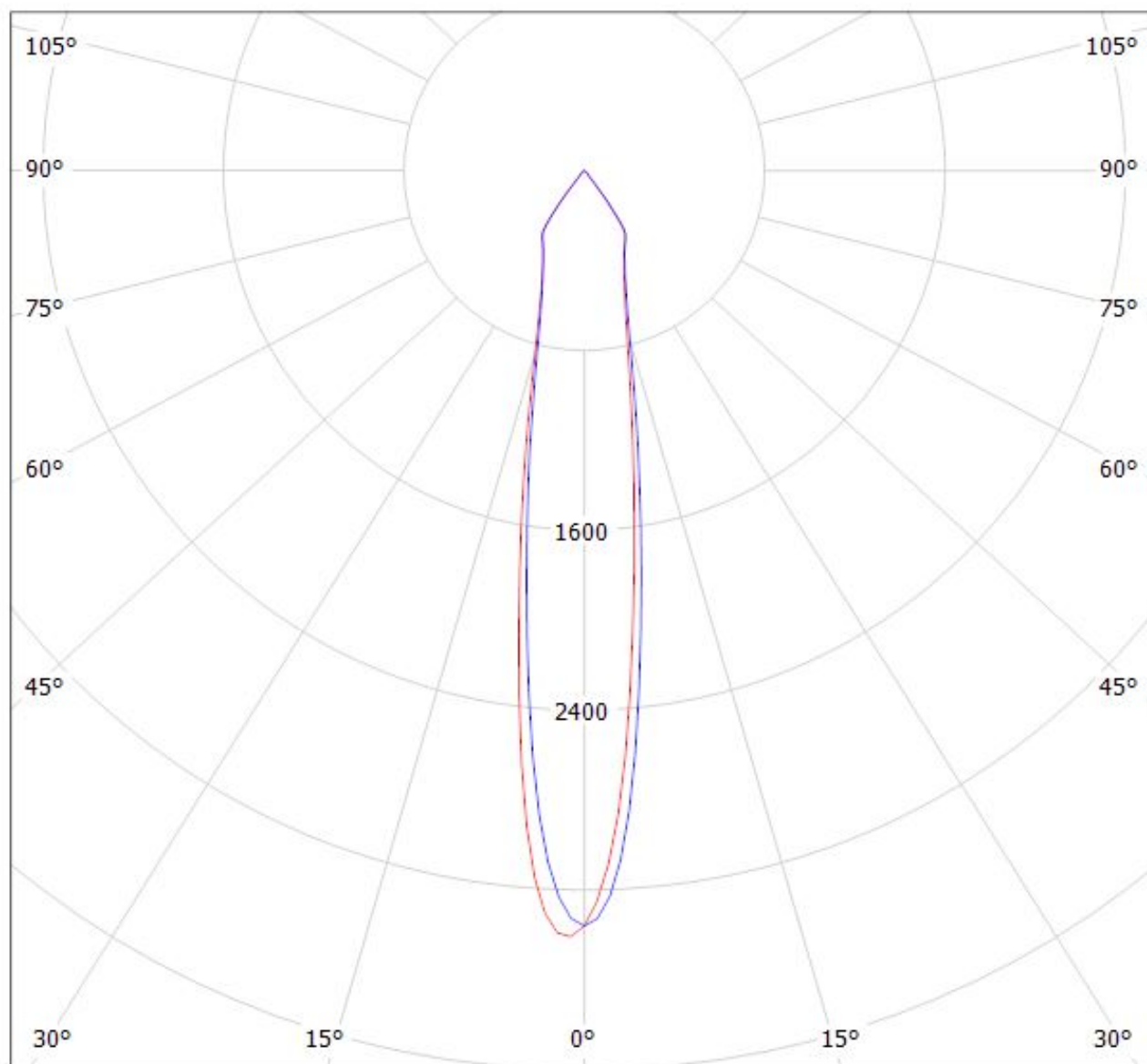
cd/klm

— C0 - C180 — C90 - C270

$\eta = 87\%$

Luminaire: LEDiL Oy F13663\_ANGELA-M-B\_(COB\_D\_14,5mm)

Lamps: 1 x Samsung\_COB\_D\_Series-LES-14,5\_LC026D\_1296.34lm@250mA\_CCT=3000K\_P=8.1225W\_I=0.250A



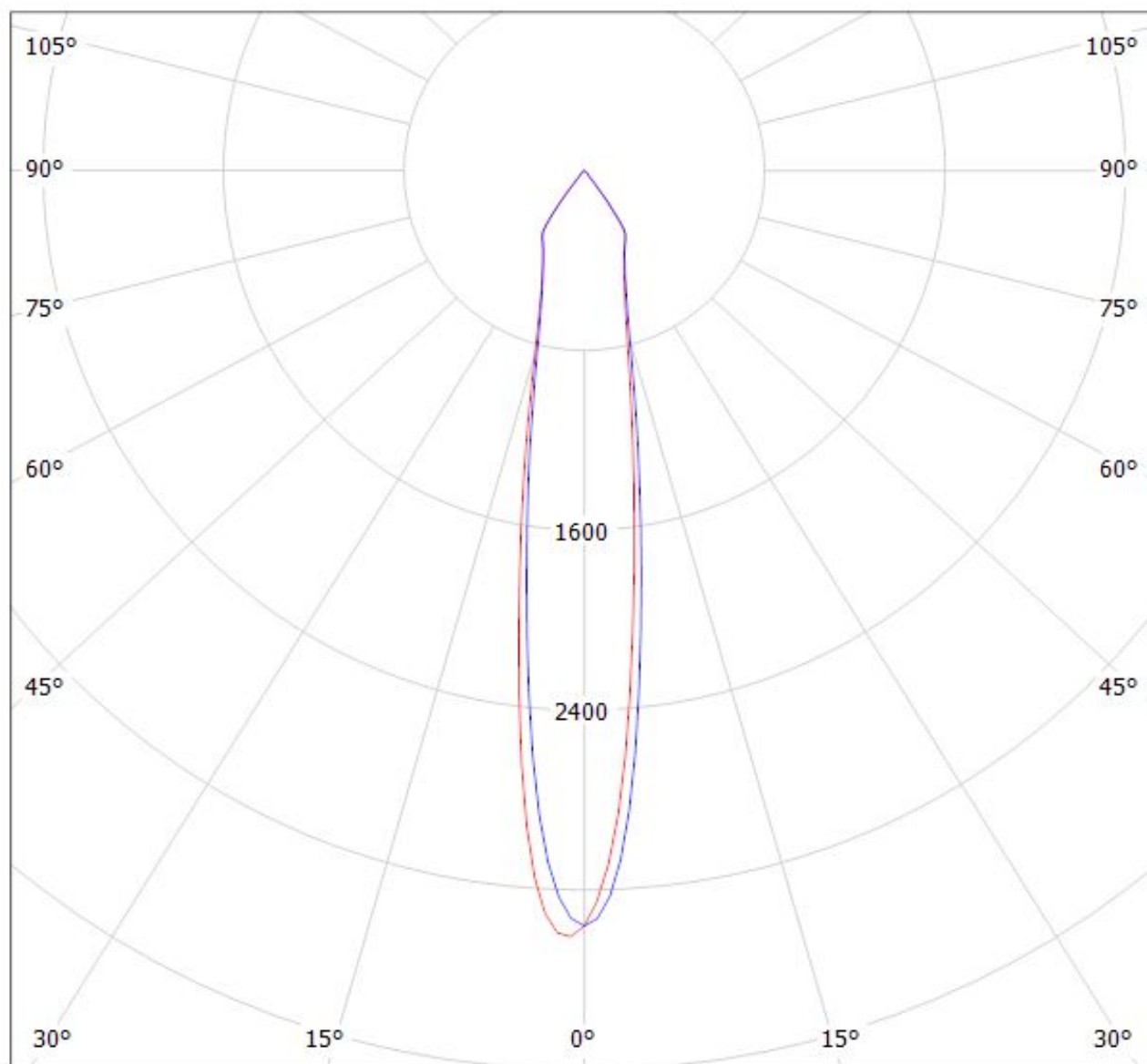
cd/klm

— C0 - C180 — C90 - C270

$\eta = 81\%$

Luminaire: LEDiL Oy F13663\_ANGELA-M-B\_(COB\_D\_14,5mm)

Lamps: 1 x Samsung\_COB\_D\_Series-LES-14,5\_LC026D\_1296.34lm@250mA\_CCT=3000K\_P=8.1225W\_I=0.250A

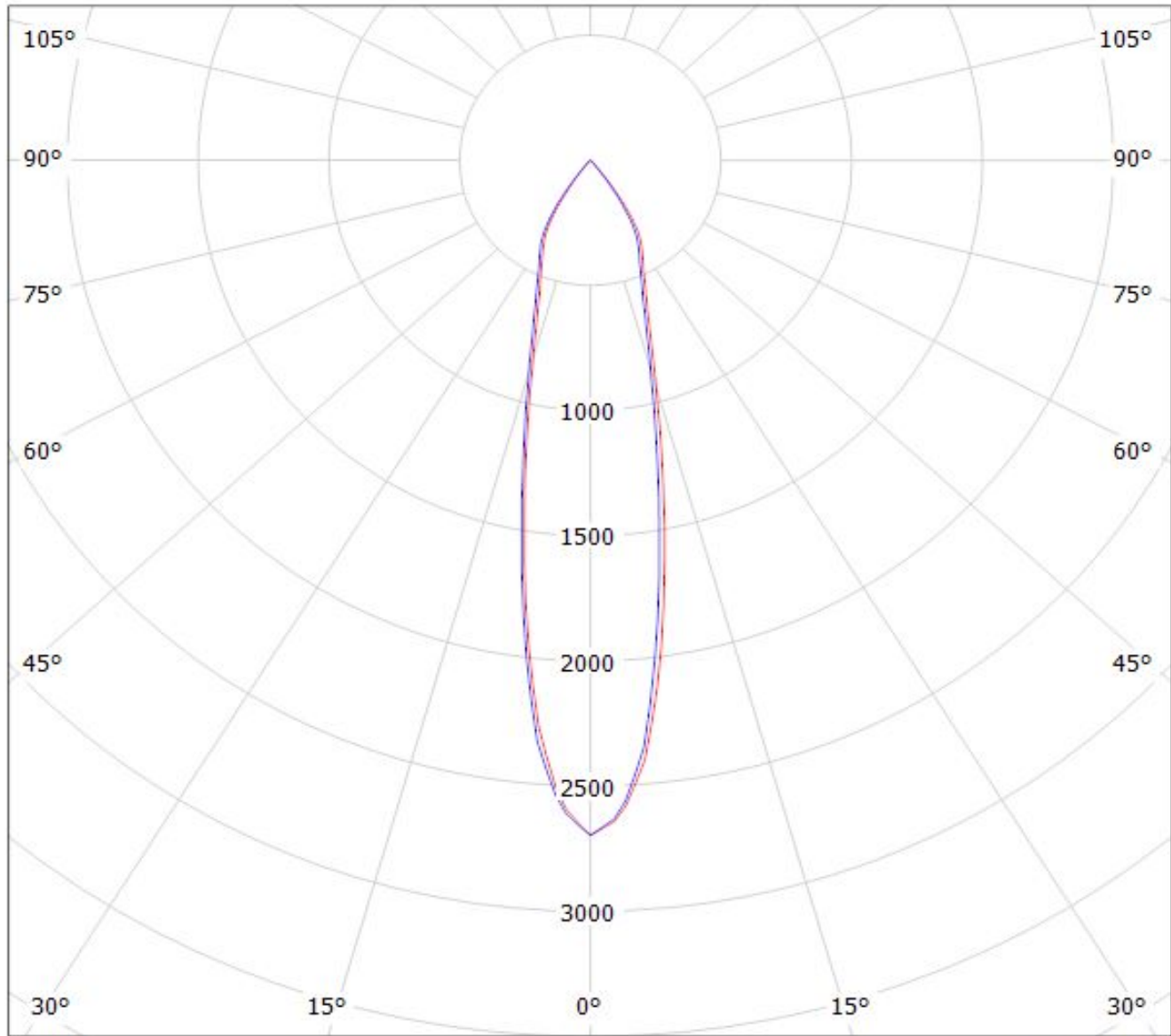


cd/klm

— C0 - C180 — C90 - C270

$\eta = 81\%$

Luminaire: Ledil Oy F13663\_ANGELA-M-B\_(ZC-40) Efficiency=81%  
Lamps: 1 x Seoul ZC-40 (SBWW5F1B) 1153lm @ 250mA CCT= P=8.25W I=250mA



cd/klm

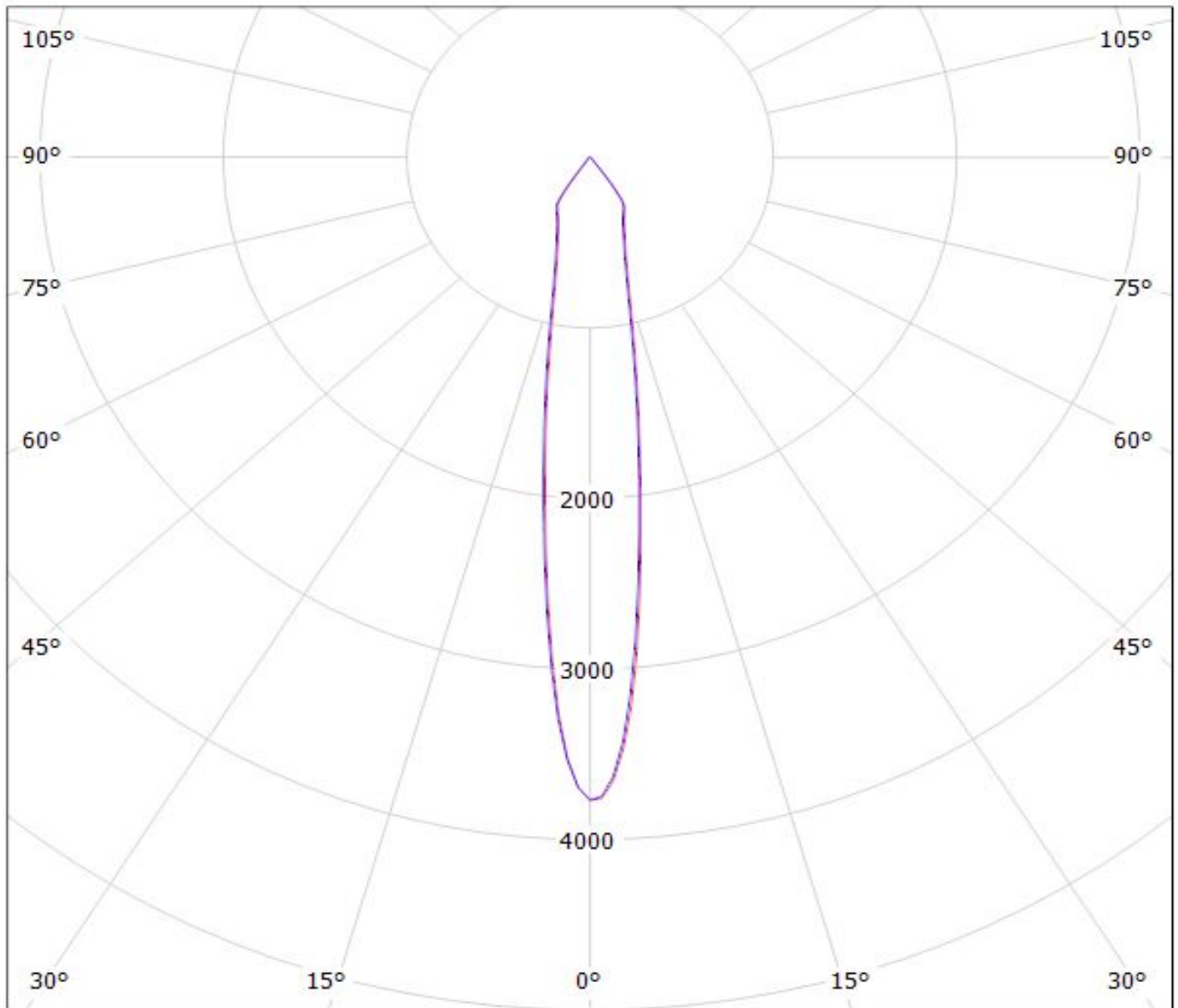
— C0 - C180

— C90 - C270

$\eta = 82\%$

Luminaire: LEDiL Oy F13663\_ANGELA-M-B\_(ZC12)

Lamps: 1 x SEOUL\_ZC12\_(SDW82F1C)\_1240.73lm@250mA\_P=8.68405W\_I=249.8mA



cd/klm

— C0 - C180

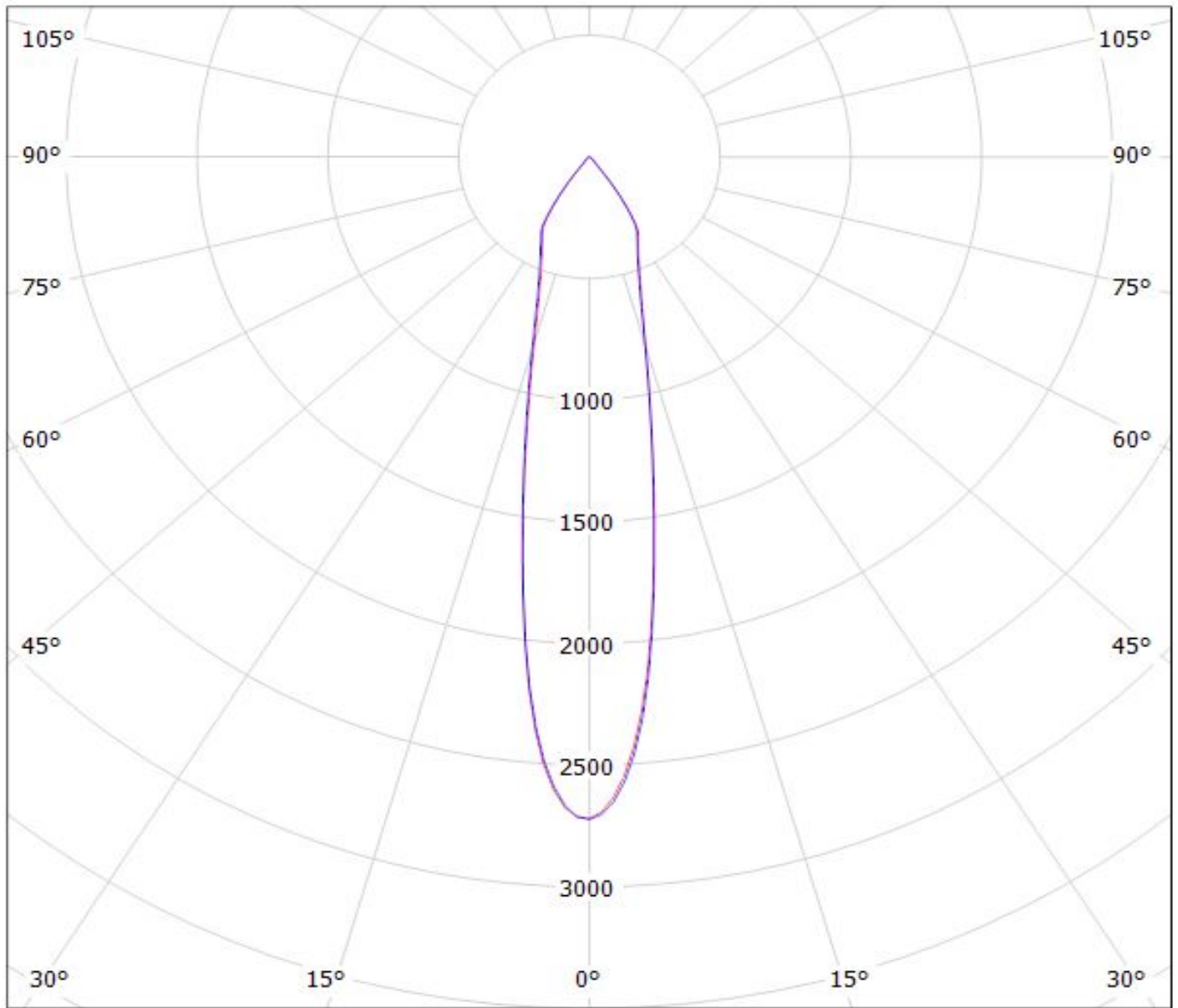
— C90 - C270

$\eta = 82\%$



Luminaire: LEDiL Oy F13663\_ANGELA-M-B\_(ZC40)

Lamps: 1 x SEOUL\_ZC40\_(SBWW5F1B)\_1176.6lm@250mA\_P=8.22171W\_I=249.9mA



cd/klm

— C0 - C180

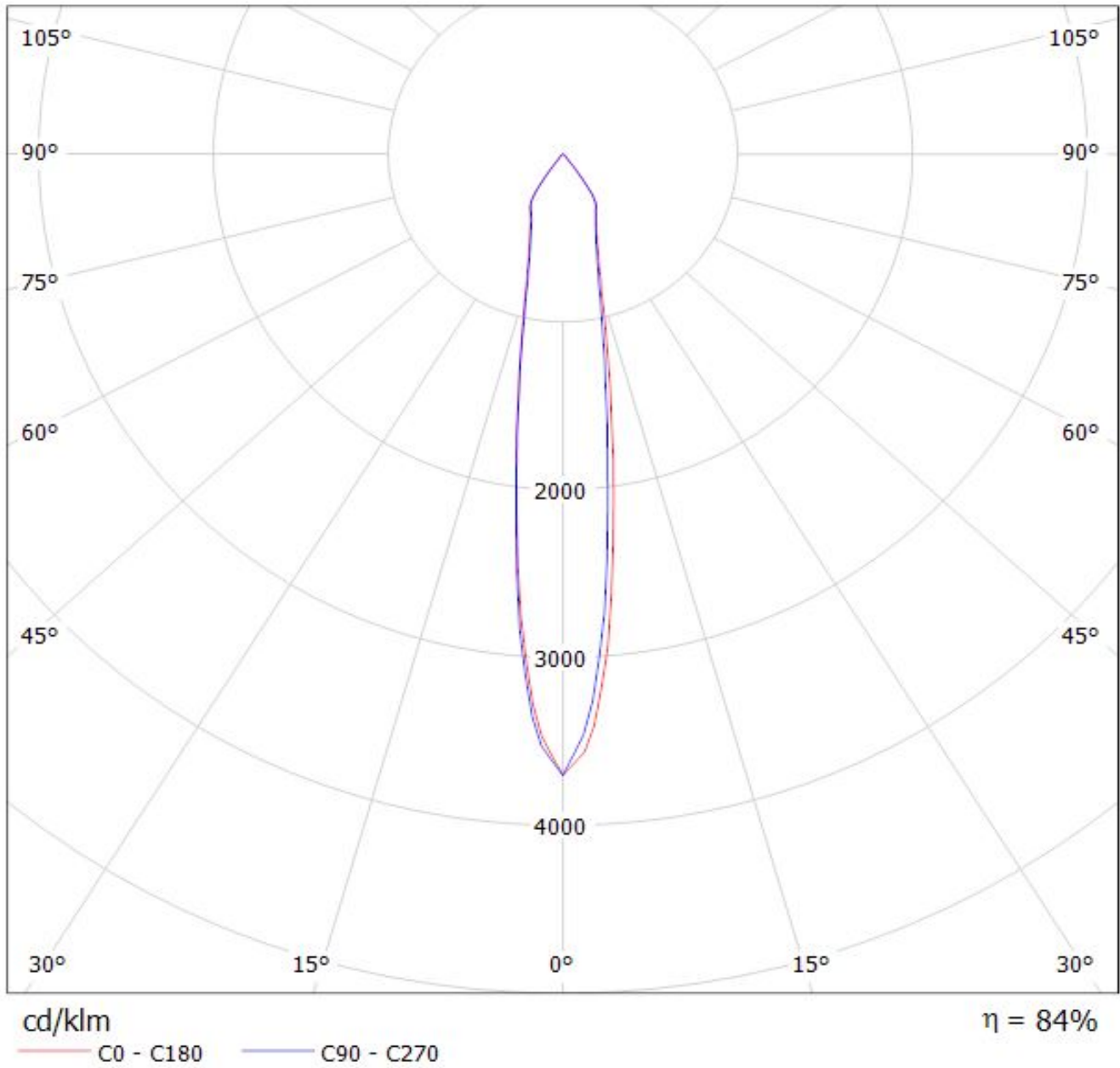
— C90 - C270

$\eta = 81\%$



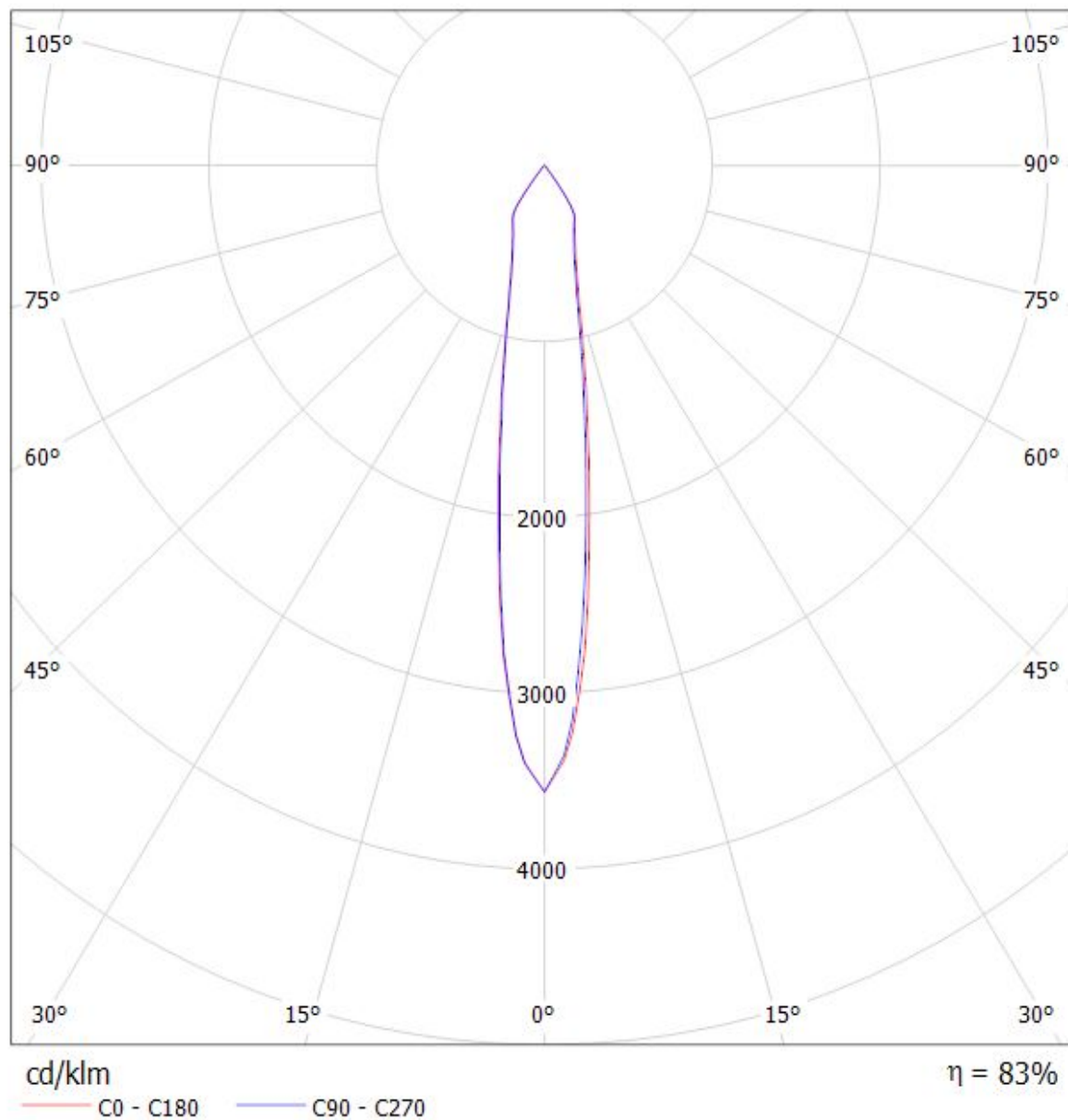
Luminaire: LEDiL Oy F13663\_ANGELA-M-B\_(MZ) Eff.84.3%

Lamps: 1 x Sharp\_Mega\_Zenigata\_1226.07lm@250mA\_P=11.1573W\_I=249.8mA

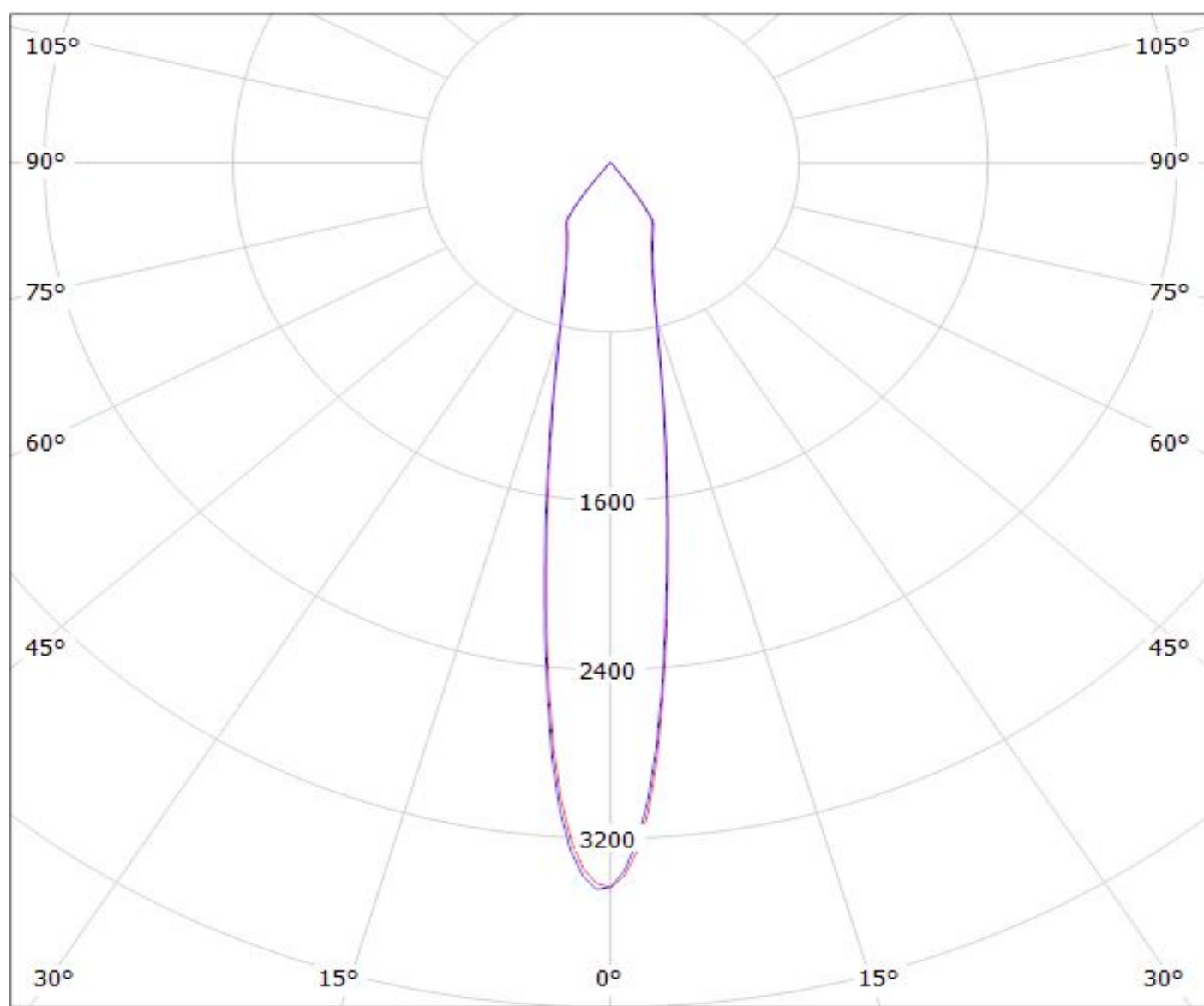


Luminaire: LEDiL Oy F13663\_ANGELA-M-B\_(MegaZenigata\_GW6)

Lamps: 1 x Sharp\_MegaZenigata\_GW6\_(GW6DME30NFC)\_1266.19lm@250mA\_CCT=3038K\_P=11.2151W\_I=250.6mA



Luminaire: LEDiL Oy F13663\_ANGELA-M-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



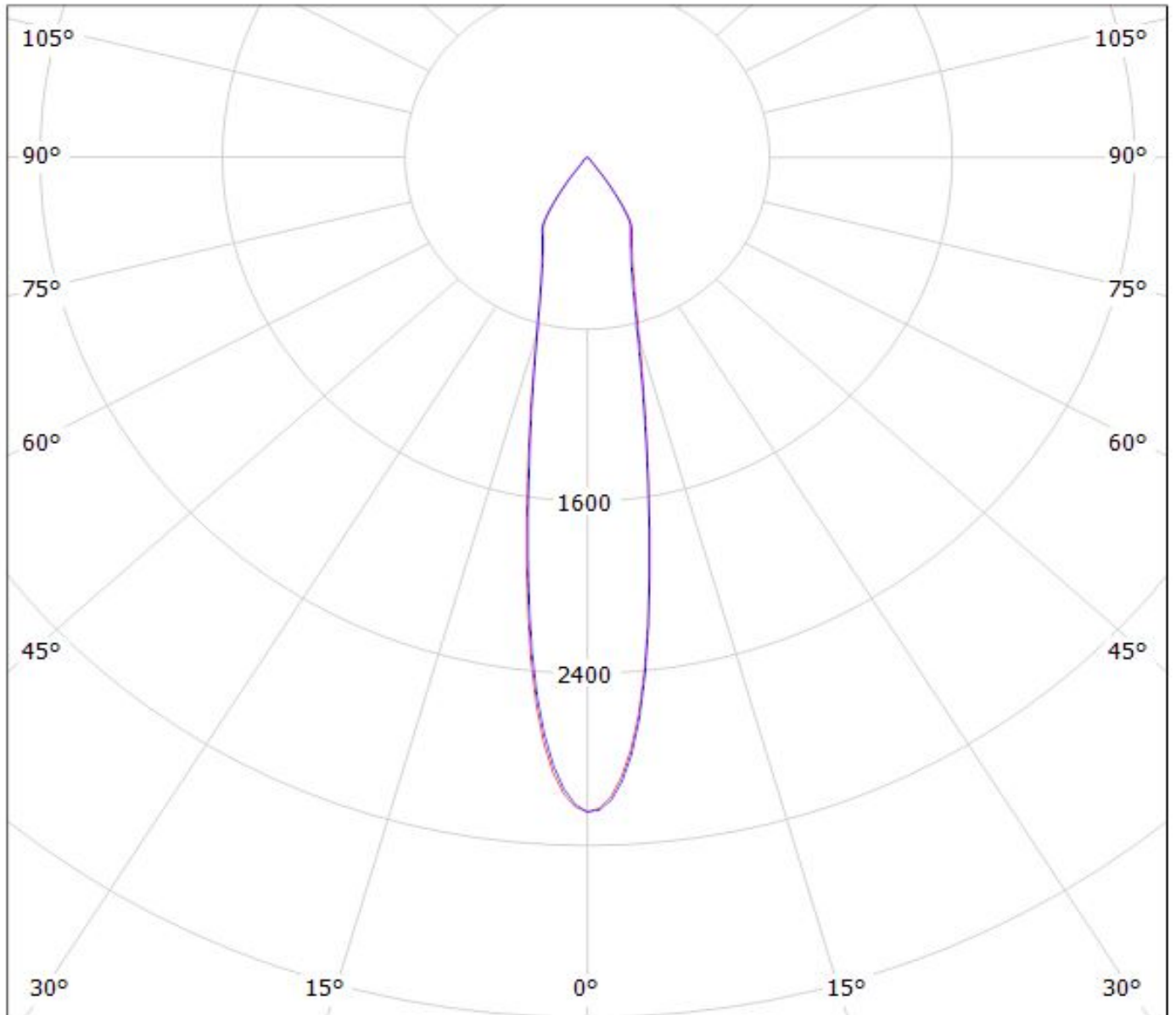
cd/klm

— C0 - C180 — C90 - C270

$\eta = 82\%$

Luminaire: LEDiL Oy F13663\_ANGELA-M-B\_(SLE\_G4\_LES23)

Lamps: 1 x Tridonic\_SLE\_G4\_LES23\_1354.57lm@250mA\_P=8.18744W\_I=0.2498A



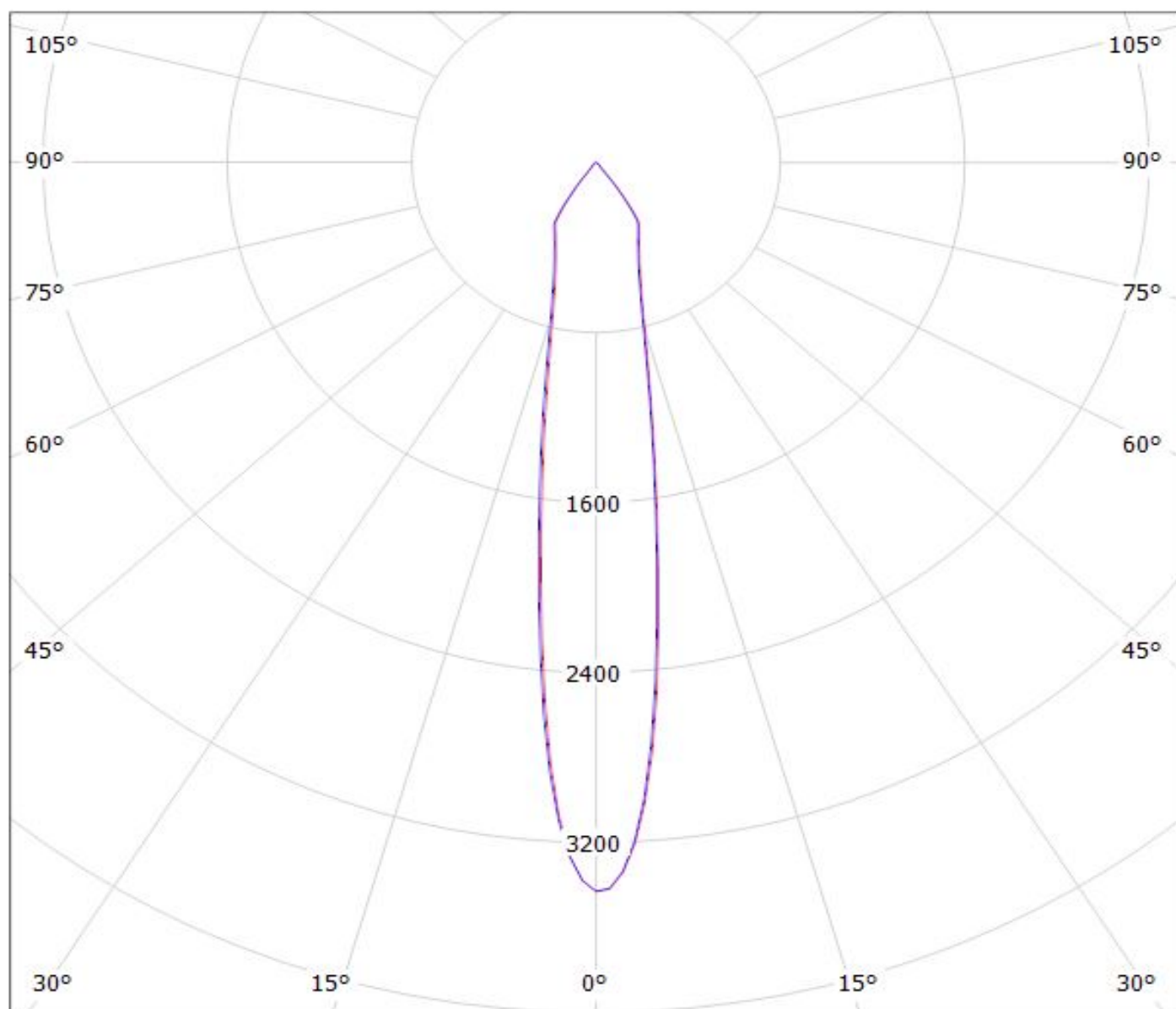
cd/klm

— C0 - C180

— C90 - C270

$\eta = 85\%$

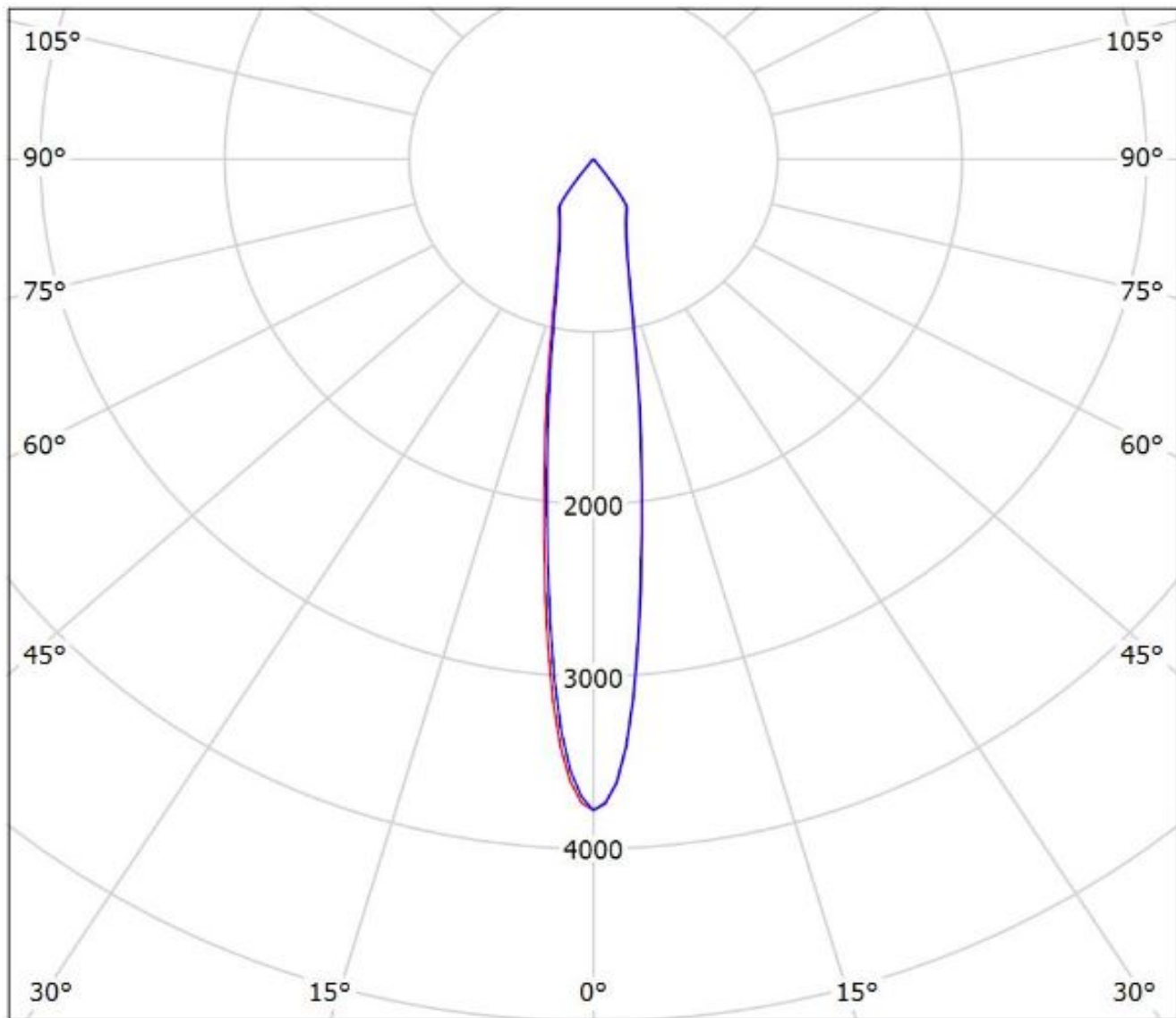
Luminaire: LEDiL Oy F13663\_ANGELA-M-B\_(SLE GEN4 LES19)  
Lamps: 1 x SLE GEN4 LES19\_1226.28lm@250mA\_P=8.21367W\_I=0.2498A



— C0 - C180 — C90 - C270

Luminaire: LEDiL Oy F13663\_ANGELA-M-B\_(SLE-G5\_LES-15)

Lamps: 1 x Tridonic\_SLE-G5\_LES-15\_1272.36lm@250mA\_P=8.6660W\_I=0.250A



cd/klm

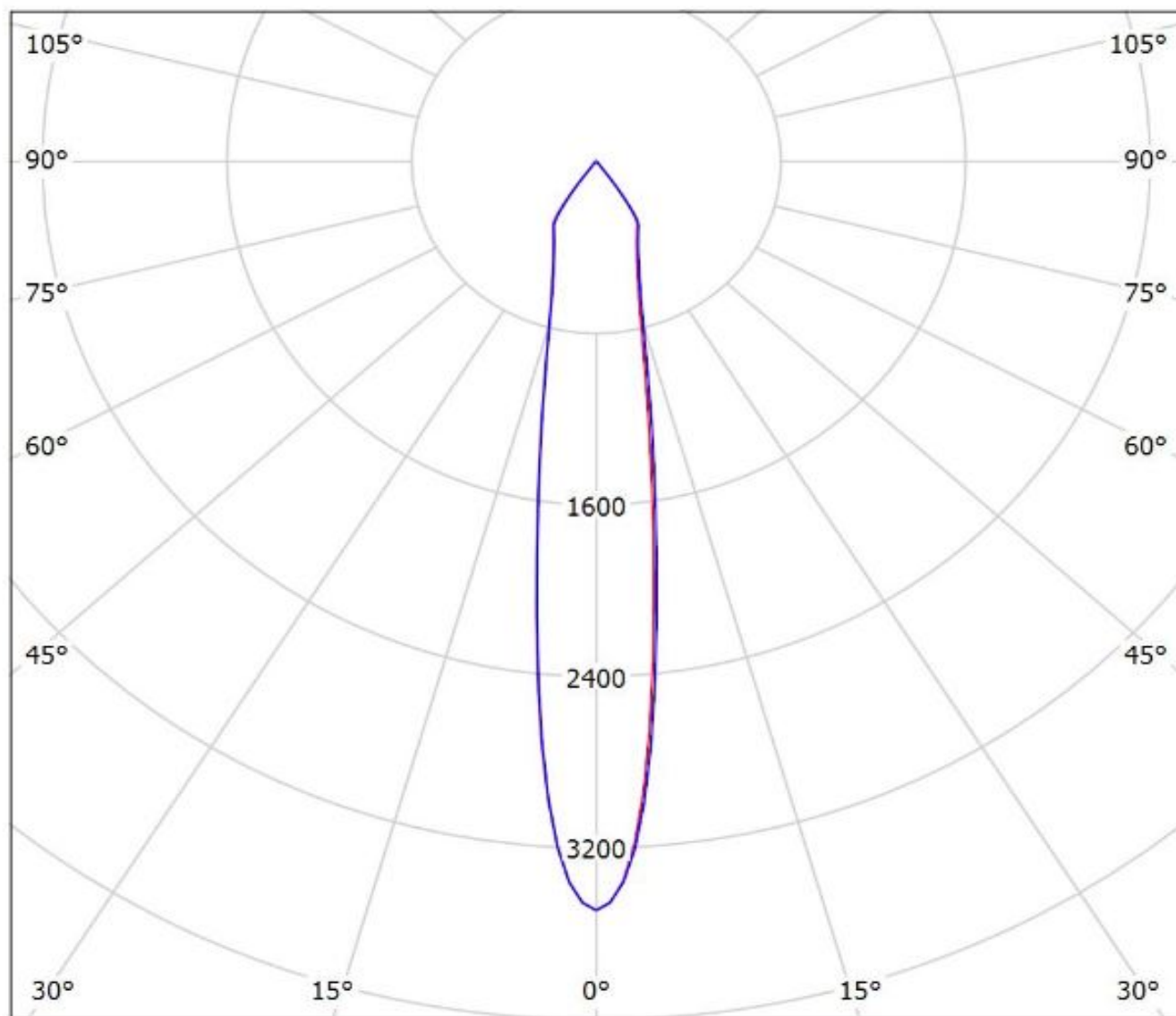
— C0 - C180

— C90 - C270

$\eta = 82\%$

Luminaire: LEDiL Oy F13380\_ANGELA-M\_(SLE-G5\_LES-19)

Lamps: 1 x Tridonic\_SLE-G5\_LES-19\_1334.47lm@250mA\_P=8.2224W\_η=0.250A



cd/klm

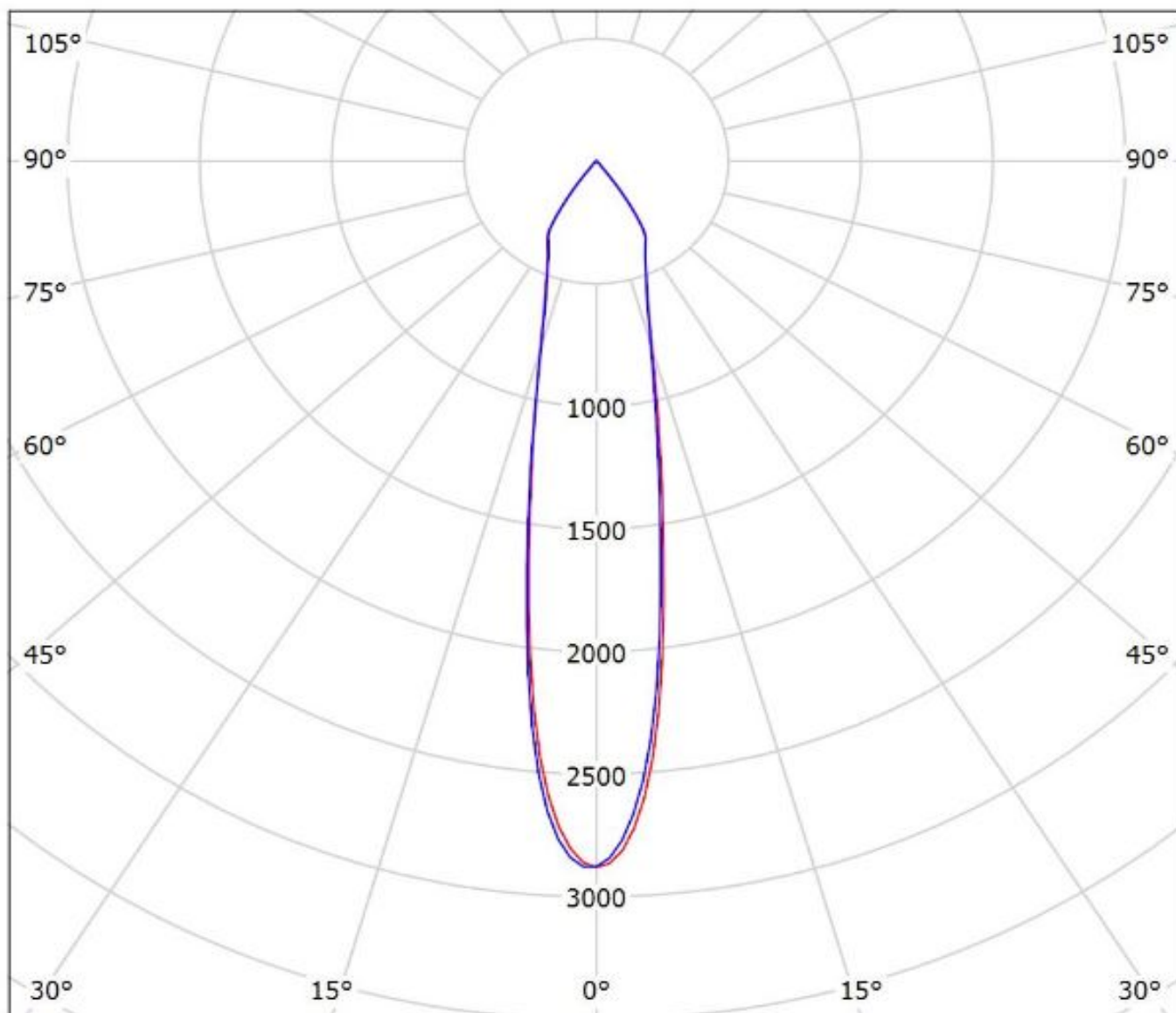
— C0 - C180 — C90 - C270

η = 80%



Luminaire: LEDiL Oy F13663\_ANGELA-M-B\_(SLE-G5\_LES-23)

Lamps: 1 x Tridonic\_SLE-G5\_LES-23\_1371.74lm@250mA\_P=8.1065W\_I=0.250A



cd/klm

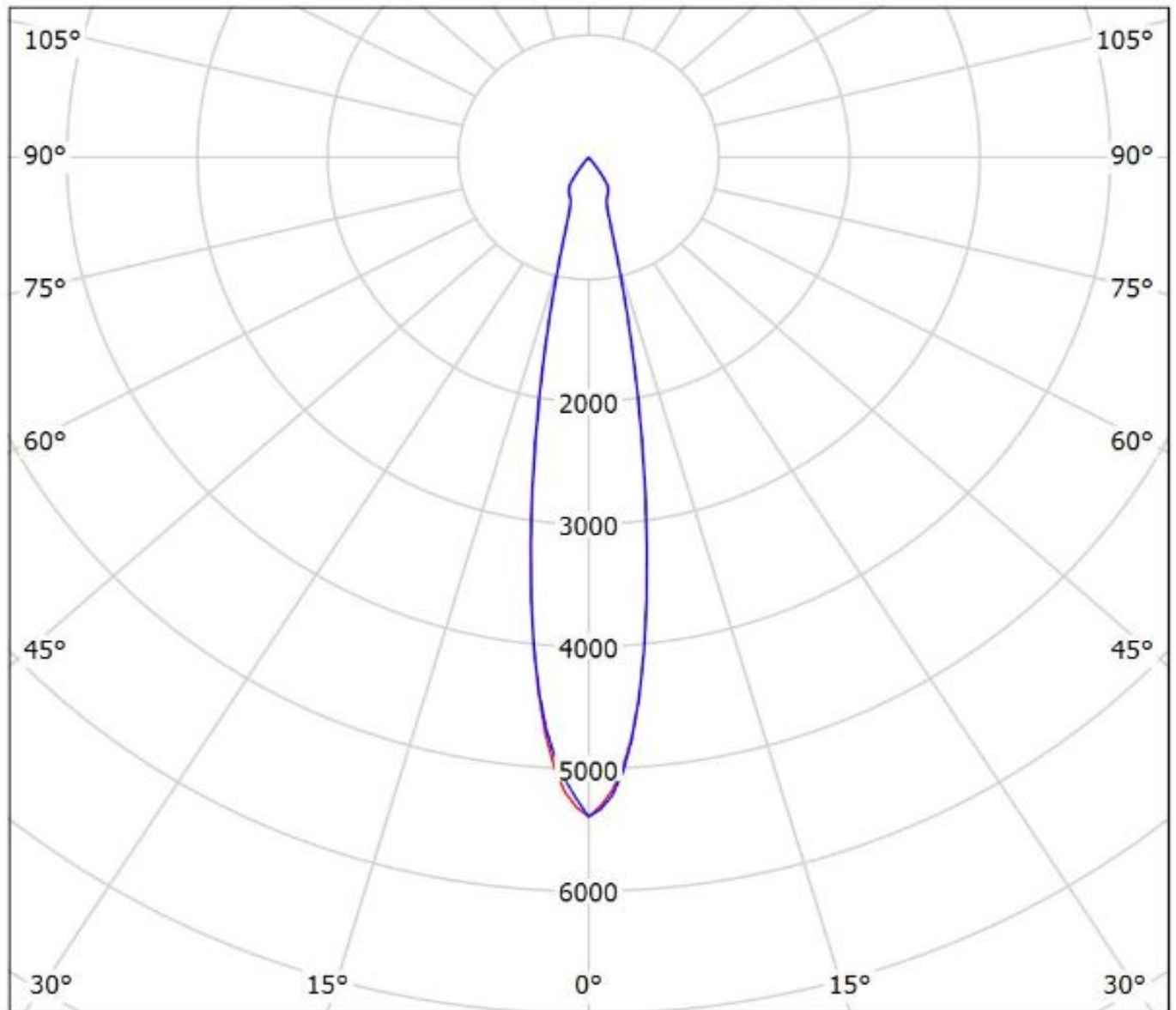
— C0 - C180

— C90 - C270

$\eta = 80\%$



Luminaire: Ledil Oy F13663\_ANGELA-M-B\_TRIDONIC\_SLE\_G6\_LES19\_H\_SIMULATED  
Lamps: 1 x TRIDONIC SLE G6 LES19 H



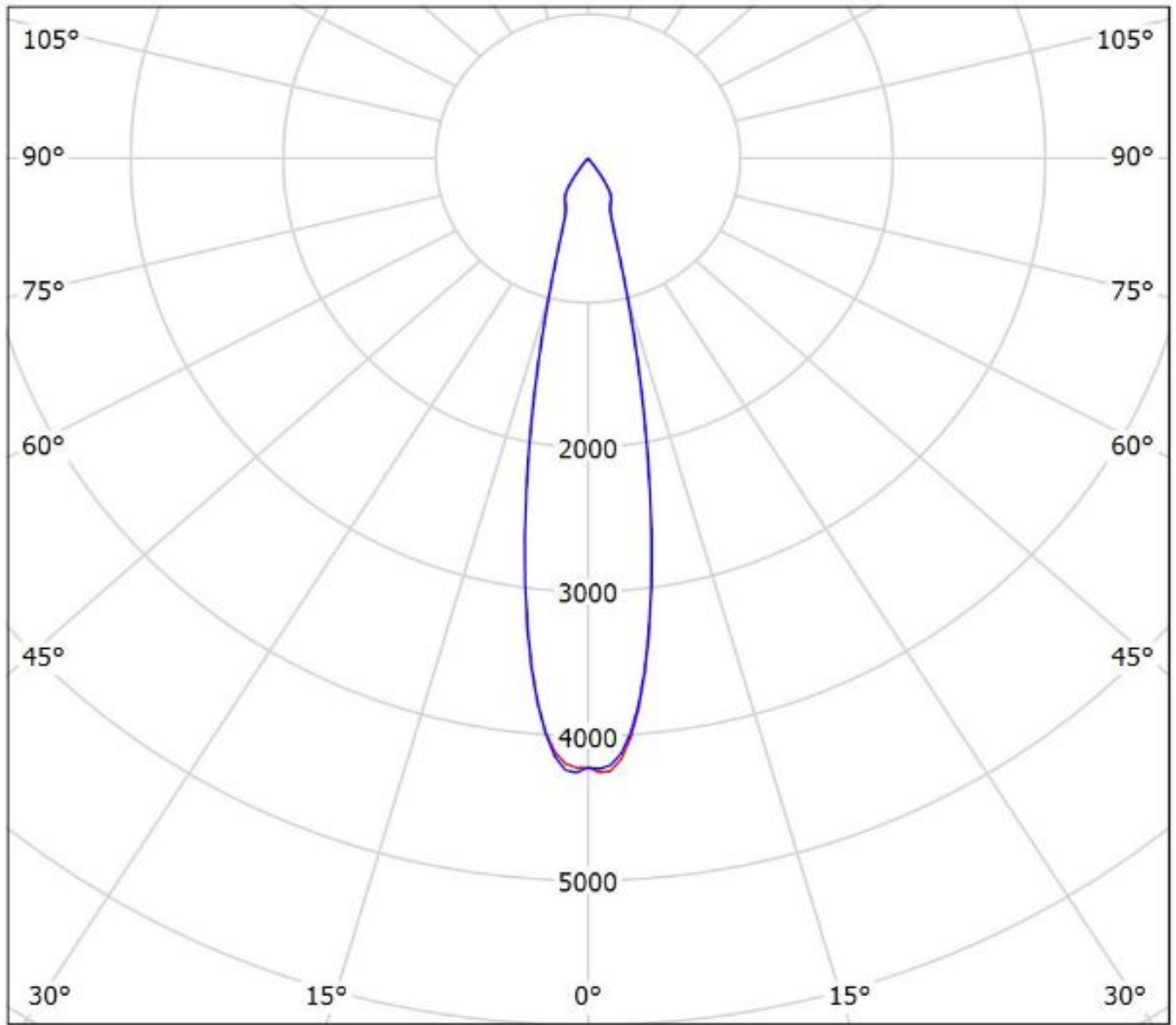
cd/klm

— C0 - C180

— C90 - C270

$\eta = 88\%$

Luminaire: Ledil Oy F13663\_ANGELA-M-B\_TRIDONIC\_SLE\_G6\_LES23\_H\_SIMULATED  
Lamps: 1 x TRIDONIC SLE G6 LES23 H



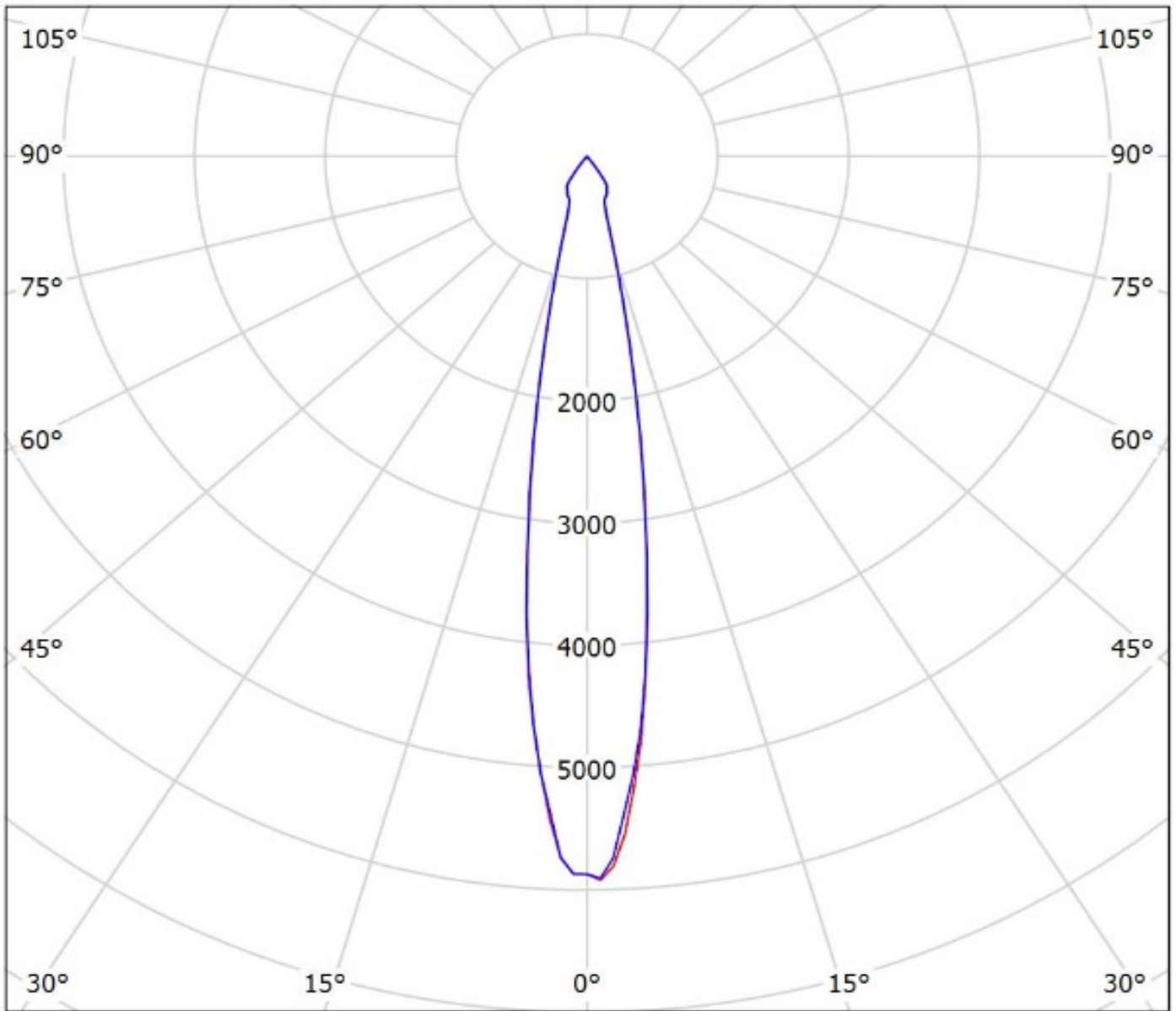
cd/klm

— C0 - C180

— C90 - C270

$\eta = 87\%$

Luminaire: Ledil Oy F13663\_ANGELA-M-B\_(SLE\_G6\_LES17\_H)\_SIMULATED  
Lamps: 1 x Tridonic SLE G6 LES17 H



cd/klm

— C0 - C180 — C90 - C270

$\eta = 88\%$

**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.