

DETAILS

| | |
|------------------------|------------------|
| Product Number | C12361_HB-2X2-W |
| Family | HB |
| Type | Lens array |
| Color | clear |
| Diameter | 50x50 mm |
| Height | 8,5 mm |
| Style | square |
| Optic Material | PMMA |
| Holder Material | |
| Fastening | glue, pin, screw |
| Status | production ready |
| ROHS Compliant | Yes |
| Date Updated | 3/01/2017 |



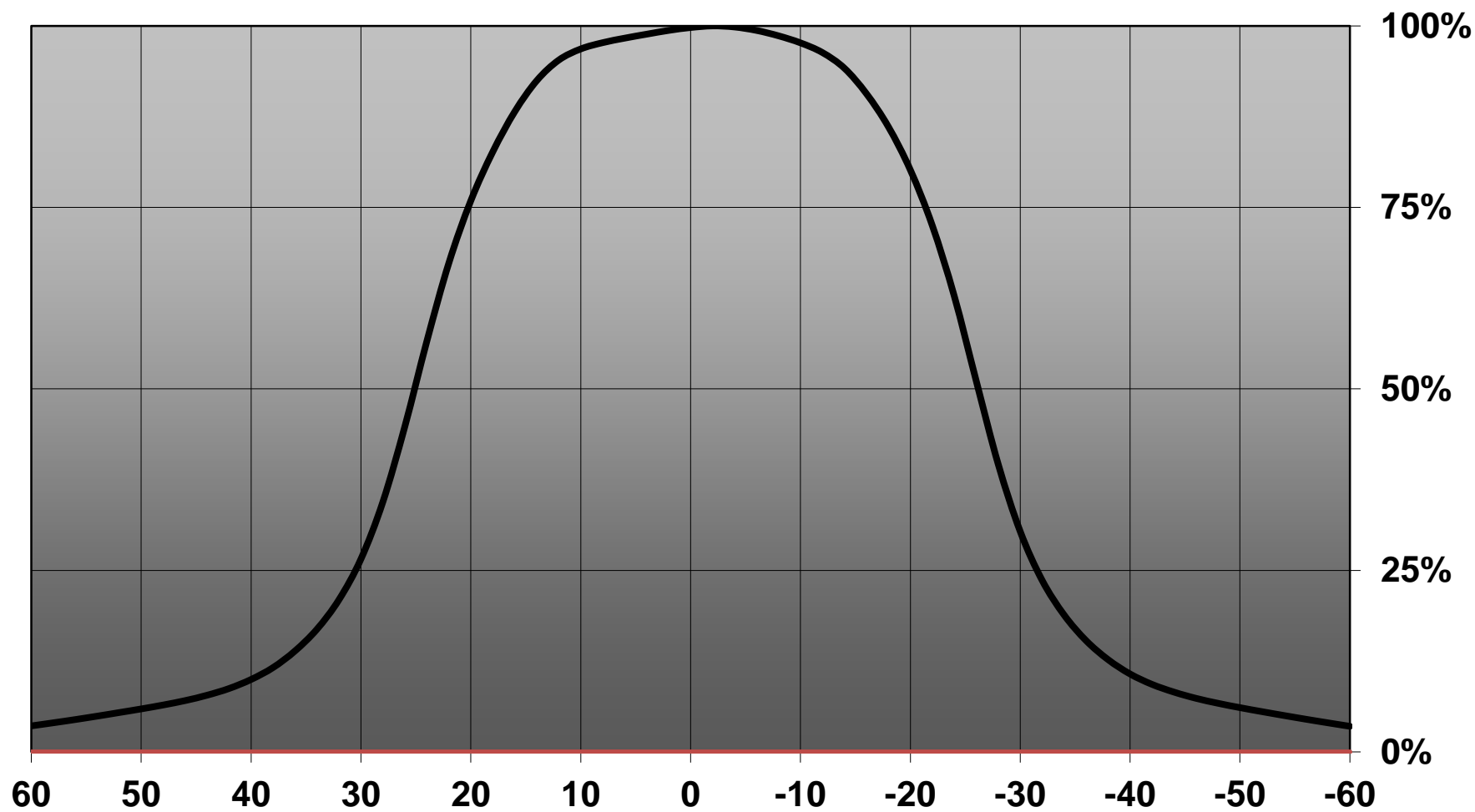
OPTICAL PROPERTIES

| LED | Viewing Angle | Light Beam | Efficiency | cd/lm | Connector |
|-----------------|---------------|------------|------------|------------|-----------|
| XM-L | 57 deg | HighBay | 89 % | 0.860 | - |
| XP-G | 52 deg | HighBay | 88 % | 0.920 | - |
| XP-E | sim: 50 | HighBay | - | - | - |
| XT-E | 50 deg | HighBay | 87 % | 0.970 | - |
| XB-D | 48 deg | HighBay | 86 % | 0.960 | - |
| XP-G2 | 51 deg | HighBay | 88 % | 0.900 | - |
| XM-L2 | 56 deg | HighBay | 87 % | 0.900 | - |
| XP-L | 56 deg | HighBay | 87 % | 0.800 | - |
| XQ-E HI | sim: 42 | HighBay | sim: 93 % | sim: 1.370 | - |
| XHP35 HI | sim: 52 | HighBay | sim: 93 % | sim: 1.200 | - |
| XP-G3 | sim: 54 | HighBay | sim: 94 % | sim: 1.000 | - |
| XP-L2 | 56 deg | HighBay | 92 % | 0.830 | - |
| H35C1 (LEMWA33) | 53 deg | HighBay | 86 % | 1.000 | - |
| LUXEON A | sim: 52 | HighBay | - | - | - |
| LUXEON Rebel | sim: 52 | HighBay | - | - | - |
| LUXEON Rebel ES | 51 deg | HighBay | 87 % | 0.940 | - |
| LUXEON T | 55 deg | HighBay | 87 % | 0.900 | - |
| LUXEON Z ES | 46 deg | HighBay | 87 % | 1.180 | - |
| LUXEON H50-2 | sim: 52 | HighBay | sim: 91 % | sim: 4.700 | - |
| LUXEON Q | 50 deg | HighBay | 86 % | 0.900 | - |
| LUXEON MZ | 53 deg | HighBay | 92 % | 1.000 | - |
| LUXEON TX | 50 deg | HighBay | 88 % | 1.000 | - |
| LUXEON 5050 | 55 deg | HighBay | 94 % | 0.940 | - |
| NVSxx19A | sim: 50 | HighBay | - | - | - |
| NCSxx19A | 48 deg | HighBay | 85 % | 1.100 | - |

OPTICAL PROPERTIES

| LED | Viewing Angle | Light Beam | Efficiency | cd/lm | Connector |
|---|---------------|------------|------------|------------|-----------|
| NS9x383 | 54 deg | HighBay | 86 % | 0.880 | - |
| NVSxx19B/NVSxx19C | 51 deg | HighBay | 85 % | 0.960 | - |
| NCSxx19B | 50 deg | HighBay | 85 % | 1.000 | - |
| NWSx229A | 57 deg | HighBay | 86 % | 0.860 | - |
| NVSW3x9A | 53 deg | HighBay | 92 % | 0.900 | - |
| NVSxE21A | 43+43 deg | HighBay | 86 % | 1.100 | - |
| OLP-5065F6L-06A | 56 deg | HighBay | 88 % | 0.940 | - |
| Oslon SSL 80 | 43 deg | HighBay | 89 % | 1.260 | - |
| Oslon Square PC | 54 deg | HighBay | 87 % | 0.900 | - |
| Duris S8 | sim: 56 | HighBay | sim: 86 % | sim: 1.000 | - |
| Oslon Square Gen3 | sim: 50 | HighBay | sim: 93 % | sim: 1.300 | - |
| Duris P8 | sim: 48 | HighBay | sim: 93 % | sim: 1.200 | - |
| Fortimo FastFlex LED board 2x8 DA G4 | 52 deg | HighBay | 94 % | 0.990 | - |
| LH351A(3535) | 49 deg | HighBay | 89 % | 1.000 | - |
| LH351Z | 50 deg | HighBay | 87 % | 1.000 | - |
| LH351B | 55 deg | HighBay | 86 % | 0.930 | - |
| LH351D | 56 deg | HighBay | 91 % | 0.850 | - |
| LH351C | 53 deg | HighBay | 93 % | 1.000 | - |
| LH508A | 56 deg | HighBay | 93 % | 0.900 | - |
| Z5 | 48 deg | HighBay | 88 % | 1.000 | - |
| Z5M1/Z5M2 | 51 deg | HighBay | 85 % | 1.000 | - |
| Z8Y15 | 45 deg | HighBay | 79 % | 0.900 | - |
| Z8Y19 | 46 deg | HighBay | 79 % | 0.900 | - |
| Z5M1/Z5M2 | sim: 52 | HighBay | sim: 94 % | sim: 1.100 | - |
| Z8Y22P | 51 deg | HighBay | 92 % | 0.910 | - |
| Acrich MJT 4040 | sim: 52 | HighBay | sim: 94 % | sim: 1.100 | - |
| TL1L4 | 48 deg | HighBay | 81 % | 0.980 | - |
| RLE G1 49x223mm 4000lm xxx EXC OTB2 deg | | HighBay | 94 % | 0.980 | - |
| RLE G1 49x245mm 4000lm xxx EXC OTB2 deg | | HighBay | 94 % | 0.980 | - |
| RLE G1 49x121mm 2000lm xxx EXC OTB2 deg | | HighBay | 94 % | 0.980 | - |
| RLE G1 49x133mm 2000lm xxx EXC OTB2 deg | | HighBay | 94 % | 0.980 | - |

Relative intensity of C12361_HB-2X2-W-(XPG2)

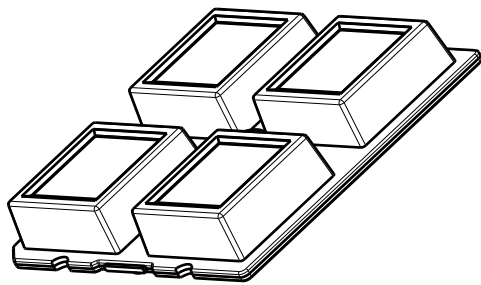


D

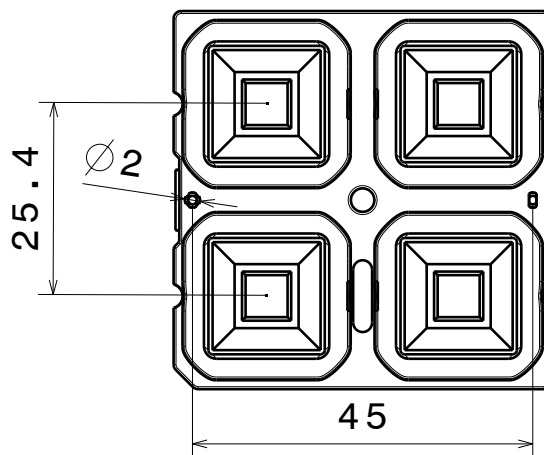
C

B

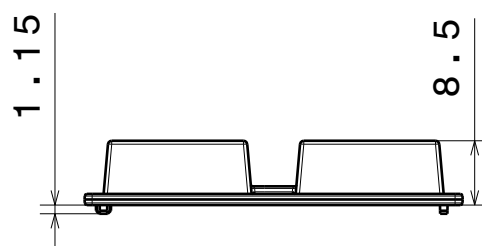
A



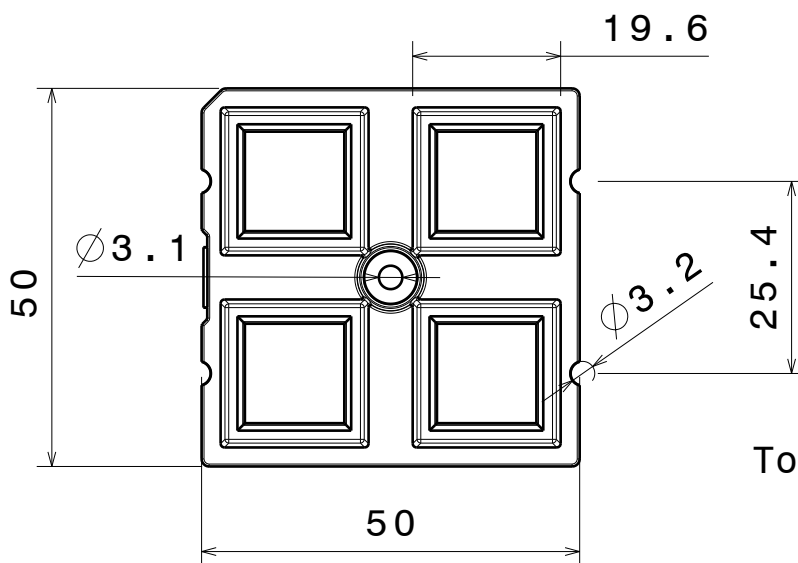
Isometric view



Bottom view



Front view



Top view

MATERIALS
Lens: PMMA

M3 screw
recommended for
fastening

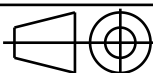
Fastening also
with glue

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

Datasheet HB-2x2 Lens module

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SIZE PART NUMBER

A4

C12361

SCALE 1:1 WEIGHT

SHEET 1/1

D

A

4

4

3

3

2

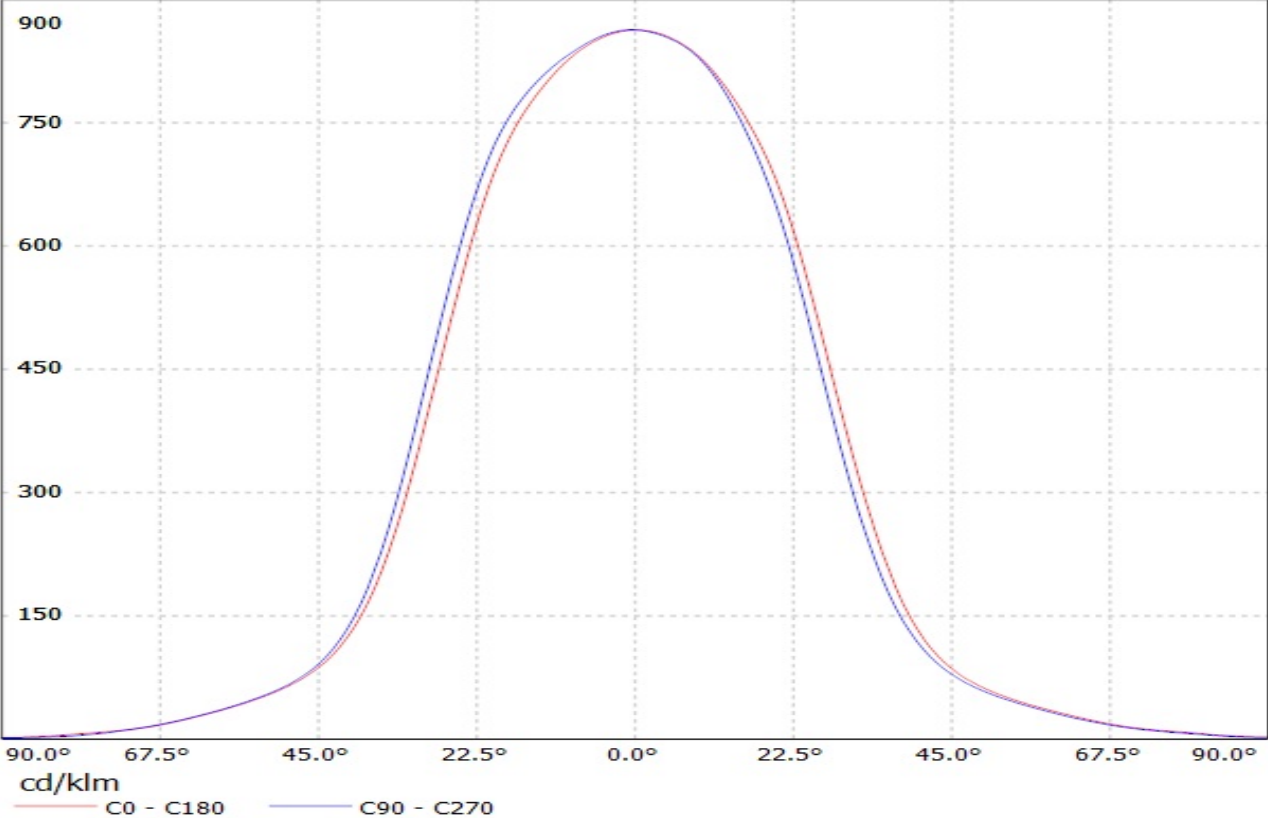
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1

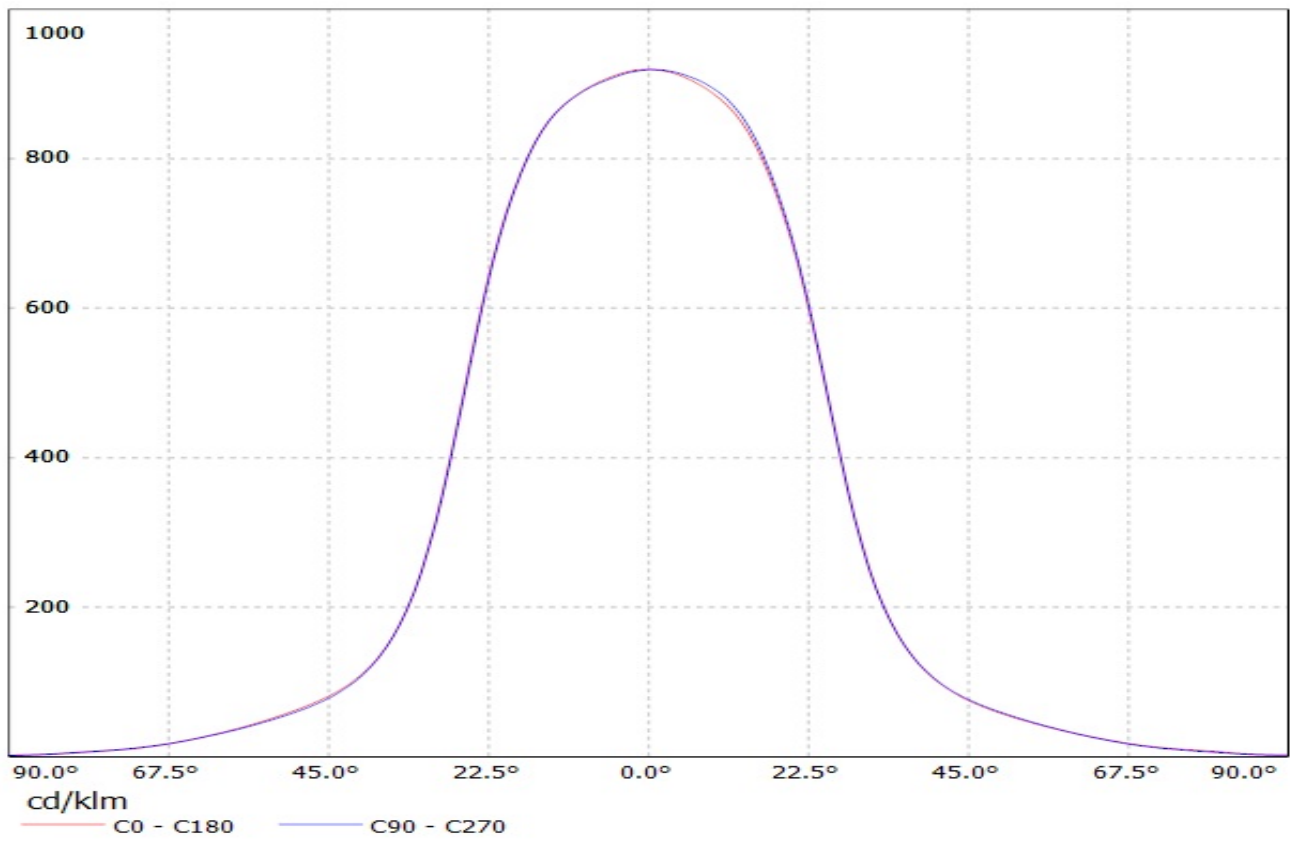
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Luminaire: LEDIL OY C12361_HB-2X2 (XM-L) Efficiency=89%

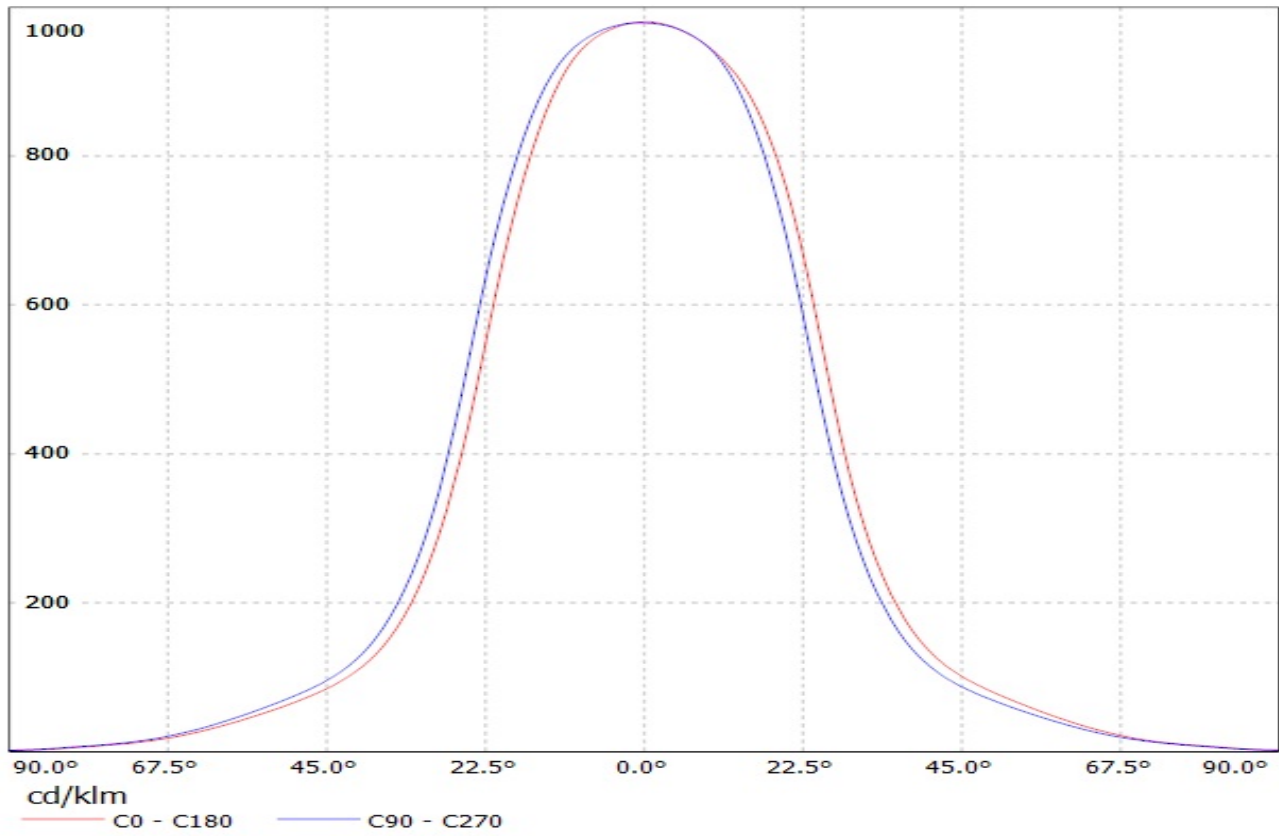
Lamps: 1 x Cree XM-L (395lm @ 250mA)



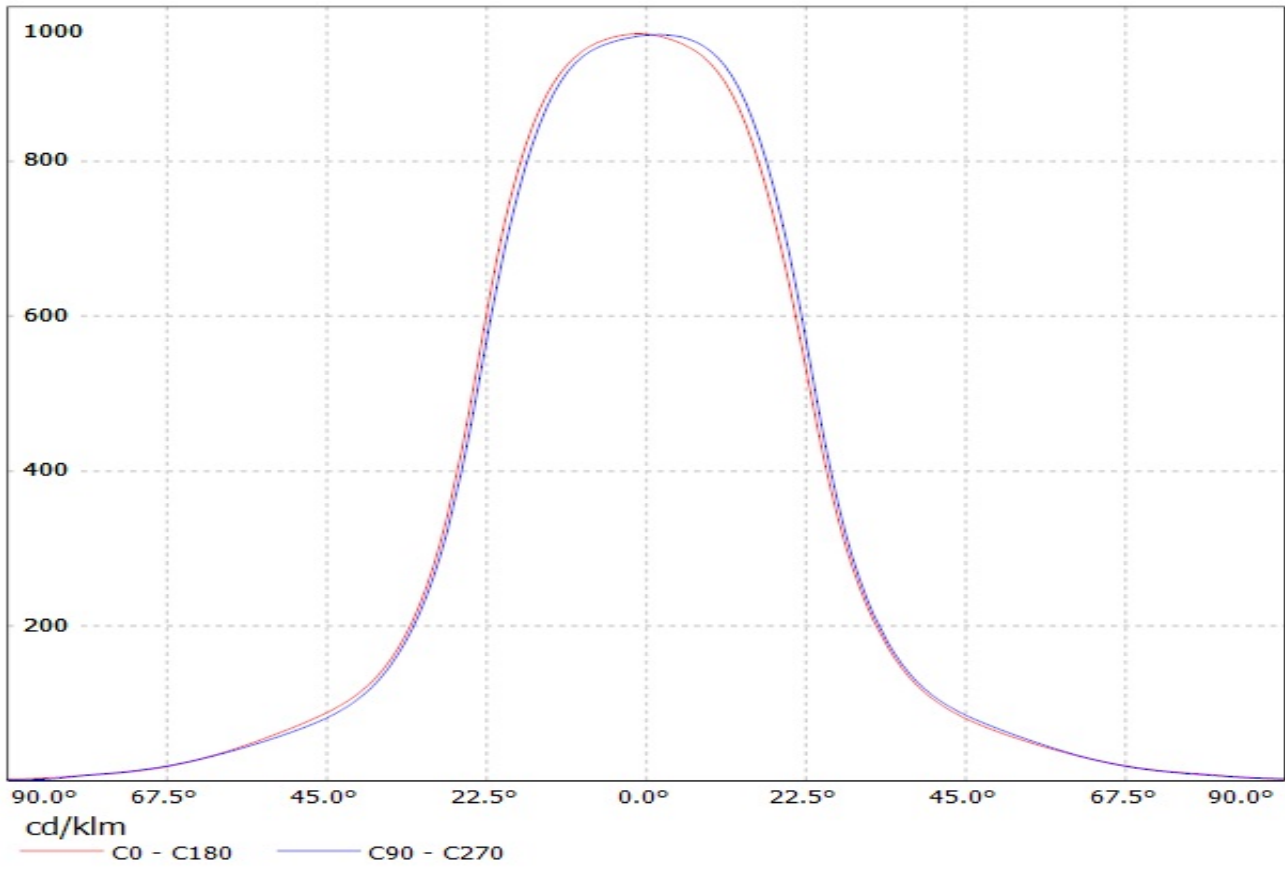
Luminaire: LEDIL OY C12361_HB-2X2 (XP-G) Efficiency=88%
Lamps: 1 x Cree XP-G (257lm @ 250mA)



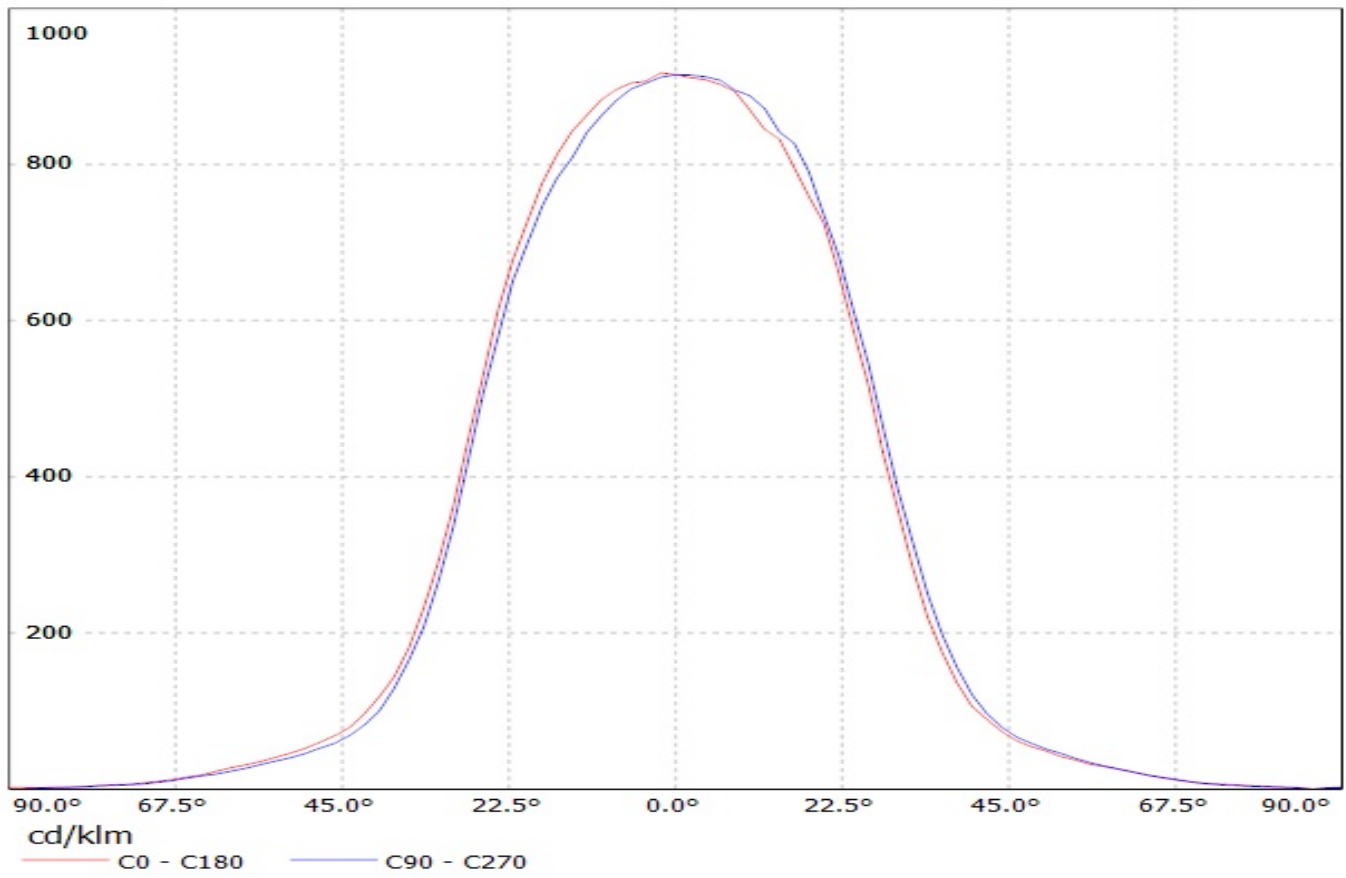
Luminaire: LEDIL OY C12361_HB-2X2 (XT-E AWT) Efficiency=89%
Lamps: 1 x Cree XT-E AWT (390lm@250mA)



Luminaire: LEDIL OY C12361_HB-2X2 (XB-D) Efficiency=86%
Lamps: 1 x Cree XB-DE (371lm @ 250mA)

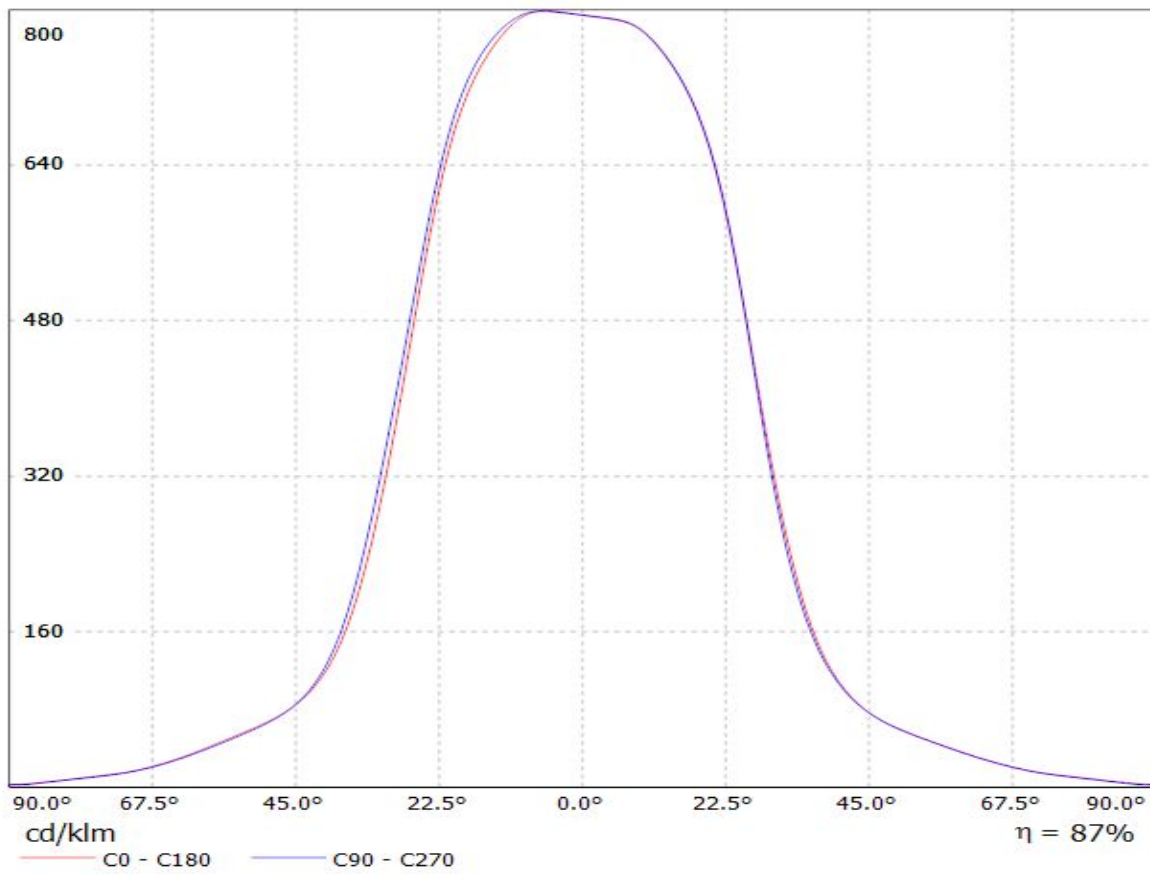


Luminaire: Ledil Oy C12361_HB-2X2-W_(XM-L2) Efficiency=87%
Lamps: 1 x Cree XM-L2 (CXMLBWT-0-7B4-T30-0L-001) 360lm @ 250mA CCT=3220K P=2.8W I=250mA

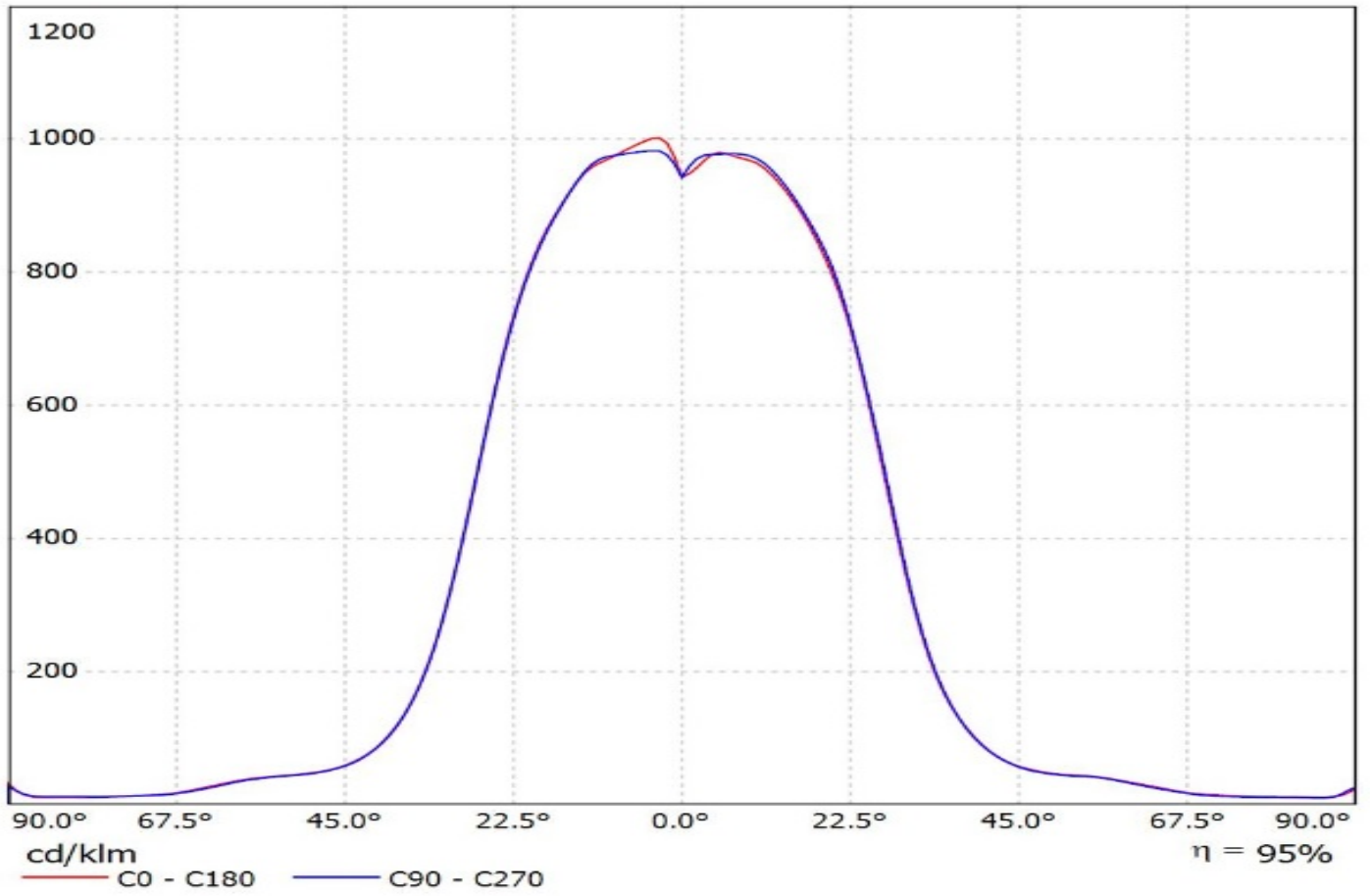


Luminaire: LEDiL Oy C12361_HB-2X2-W_(XP-L) Eff.87.0%

Lamps: 1 x CREE_XP-L_2x2_(XPLAWT-0-1B0-V40-00-0001)_504.373lm@250mA_CCT=7600K_P=2.79963W_I=249.9mA

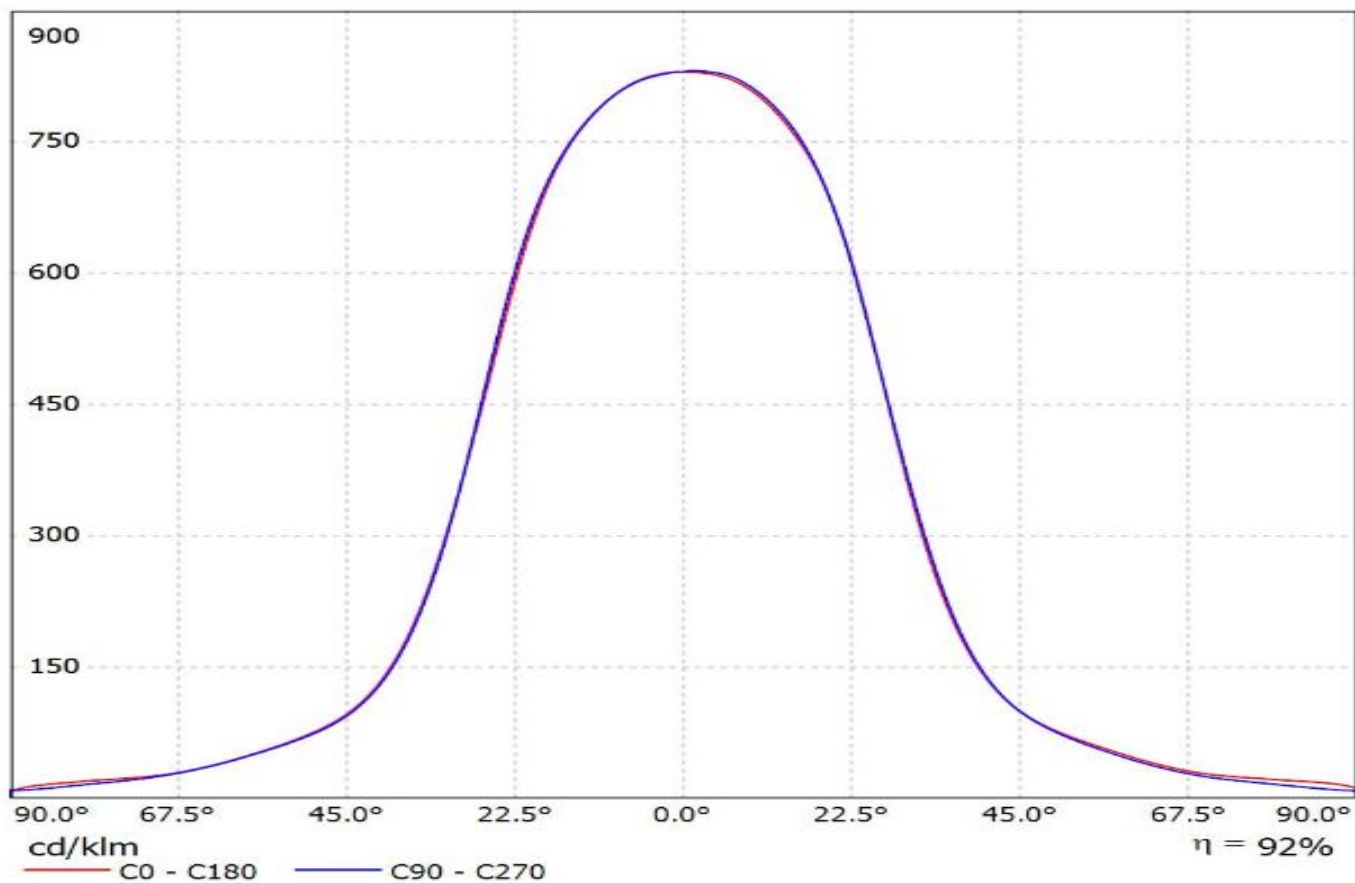


Luminaire: Ledil Oy C12361_HB-2X2-W_(XP-G3)_SIMULATED
Lamps: 1 x Cree XP-G3

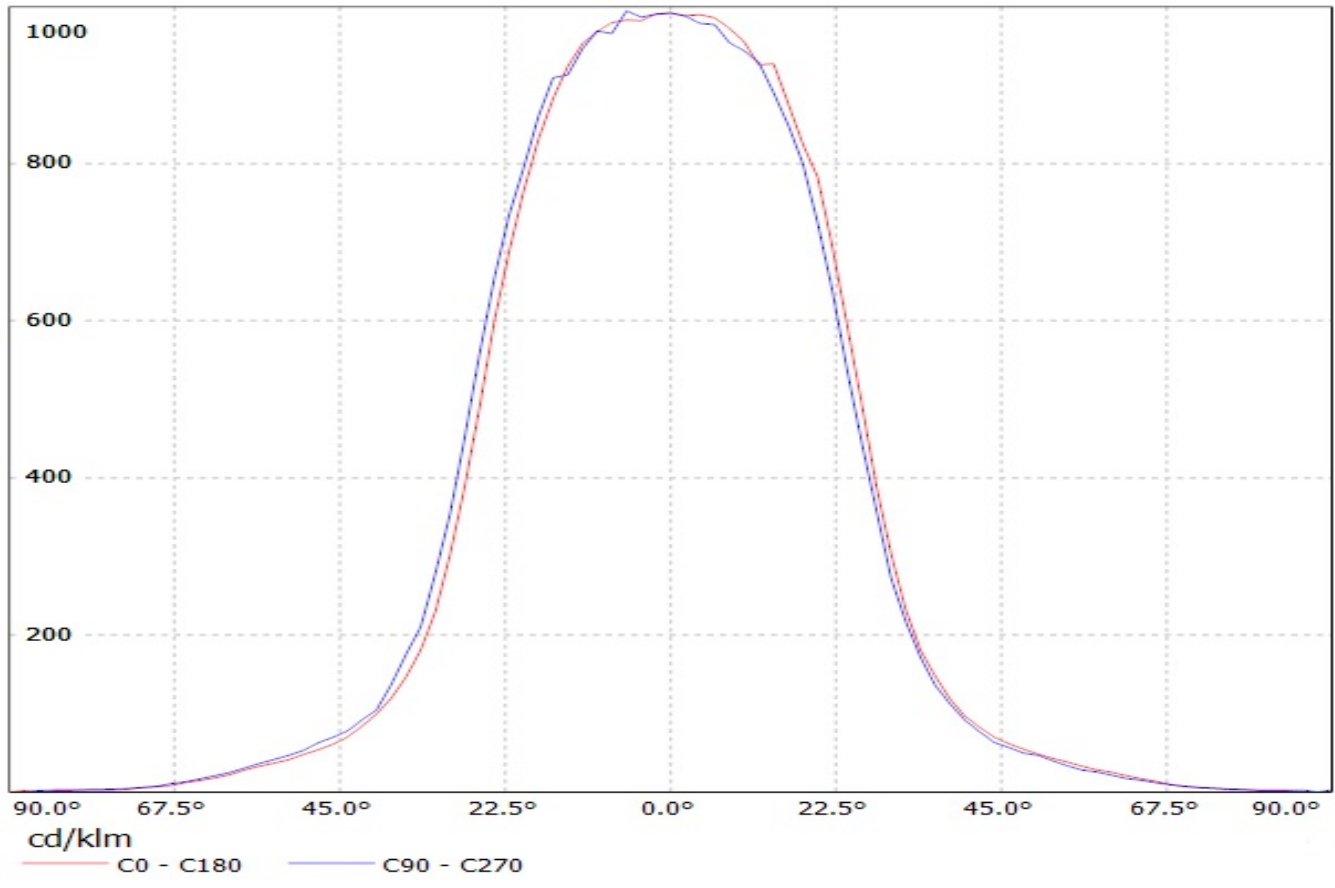


Luminaire: Ledil C12361_HB-2X2-W_(XP-L2)

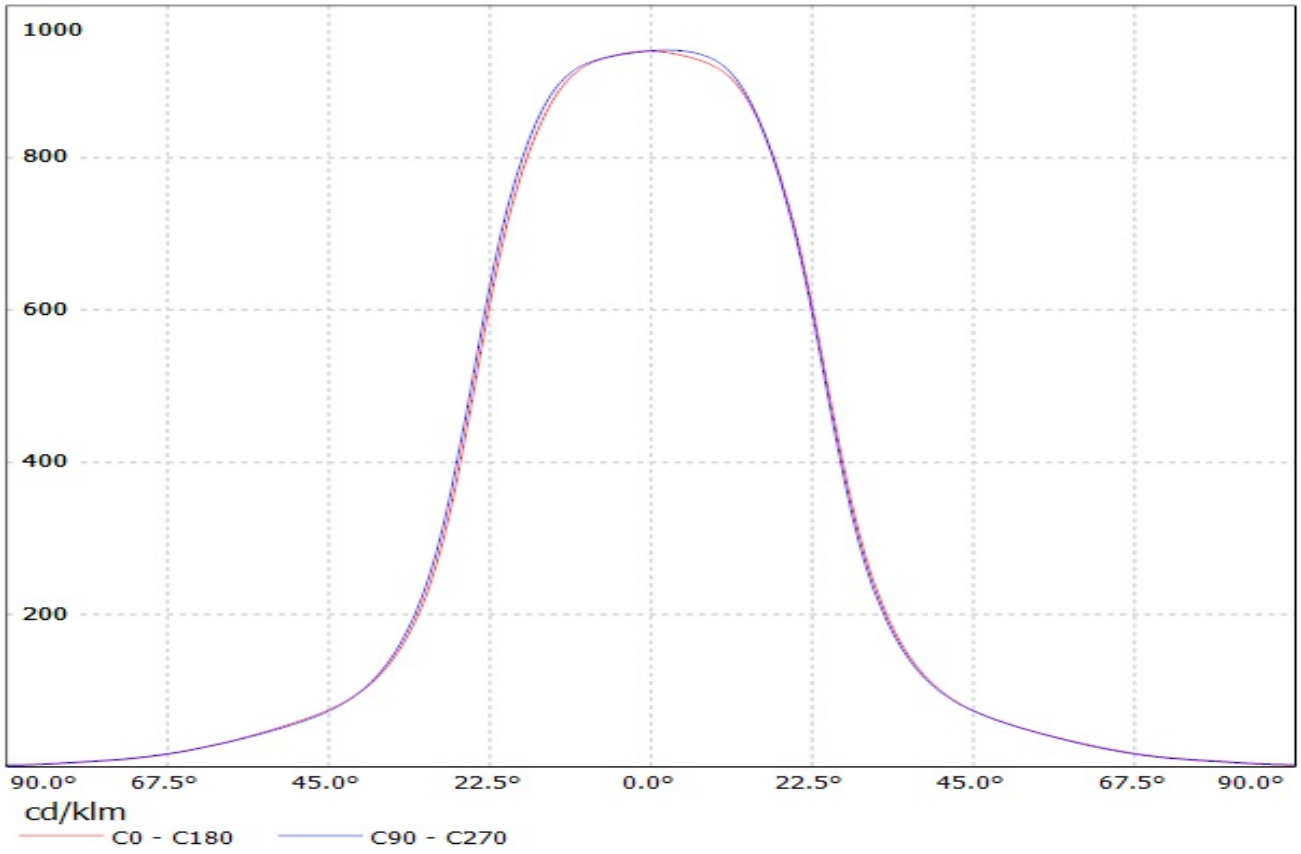
Lamps: 1 x Cree_XP-L2_2x2_(XPLBWT-00-0000-000BV50E3)550.93lm@250mA_P=2.7815W_I=0.25A



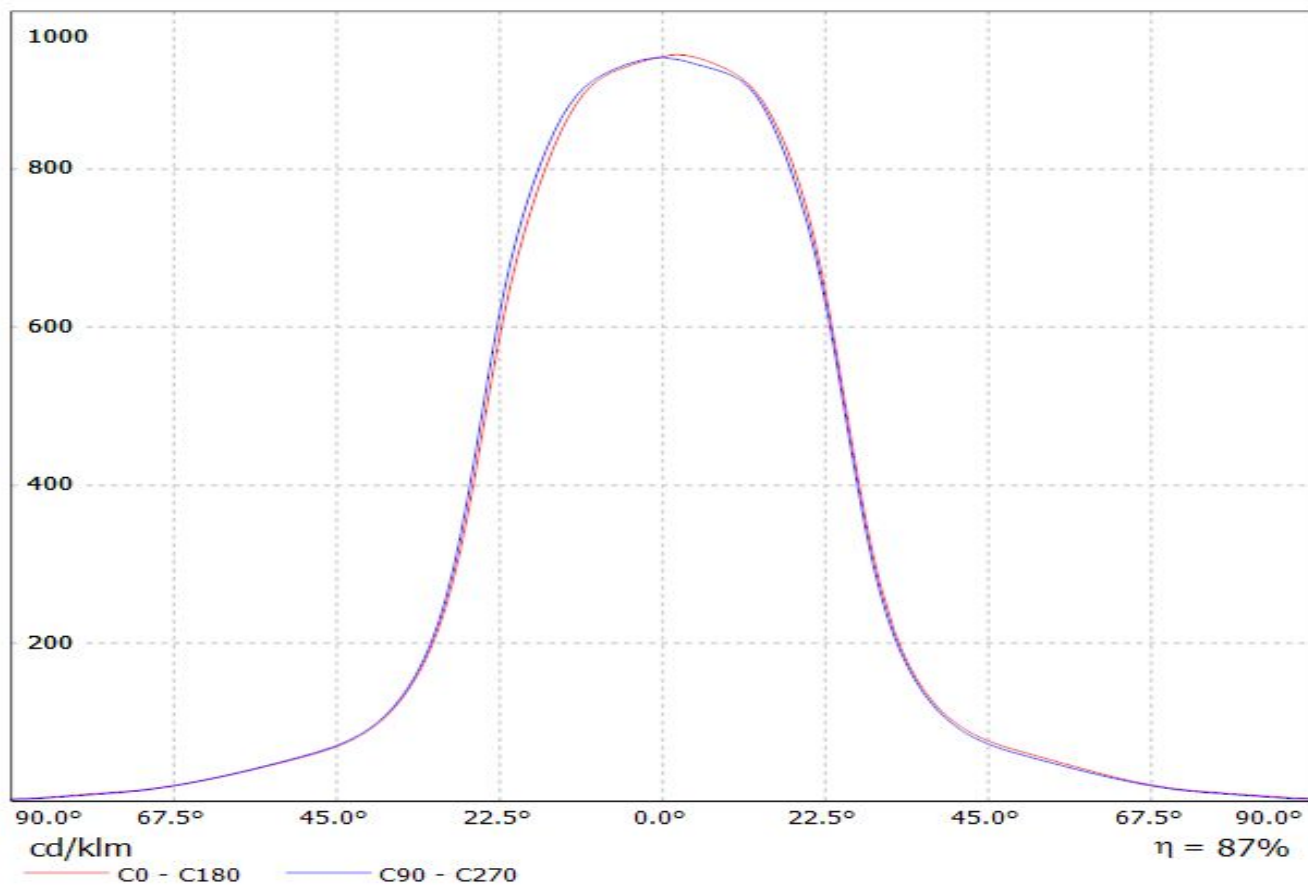
Luminaire: Ledil Oy C12361_HB-2X2-W_(3535_Ceramic_gen2) Efficiency=86%
Lamps: 1 x LG 3535 Ceramic gen2 (PKG5700K) 461lm @ 250mA CCT=6600K P=2.9W I=250mA



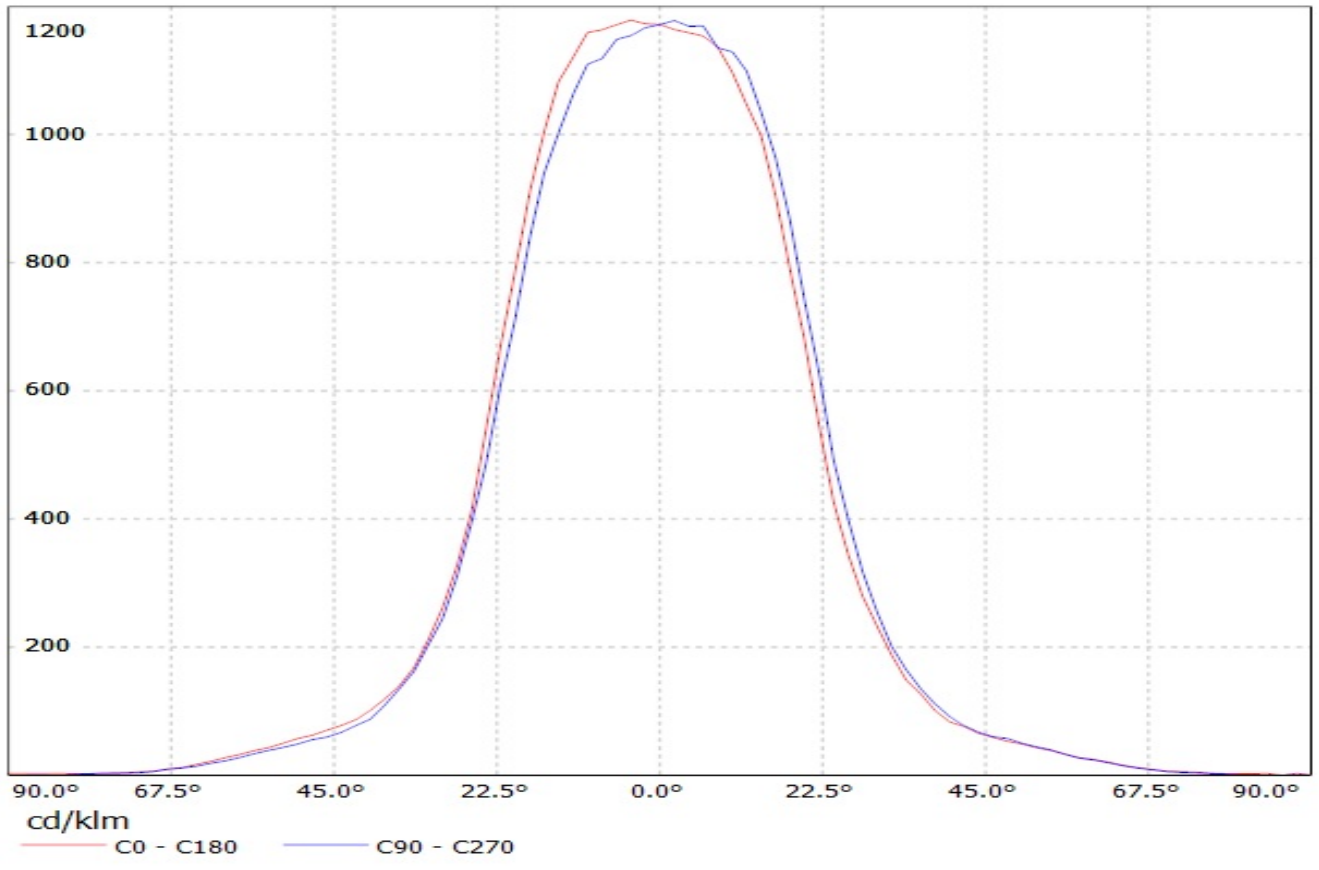
Luminaire: LEDIL OY C12361_HB-2X2 (RE-ES) Efficiency=87%
Lamps: 1 x Luxeon Rebel-ES (339lm @ 250mA)



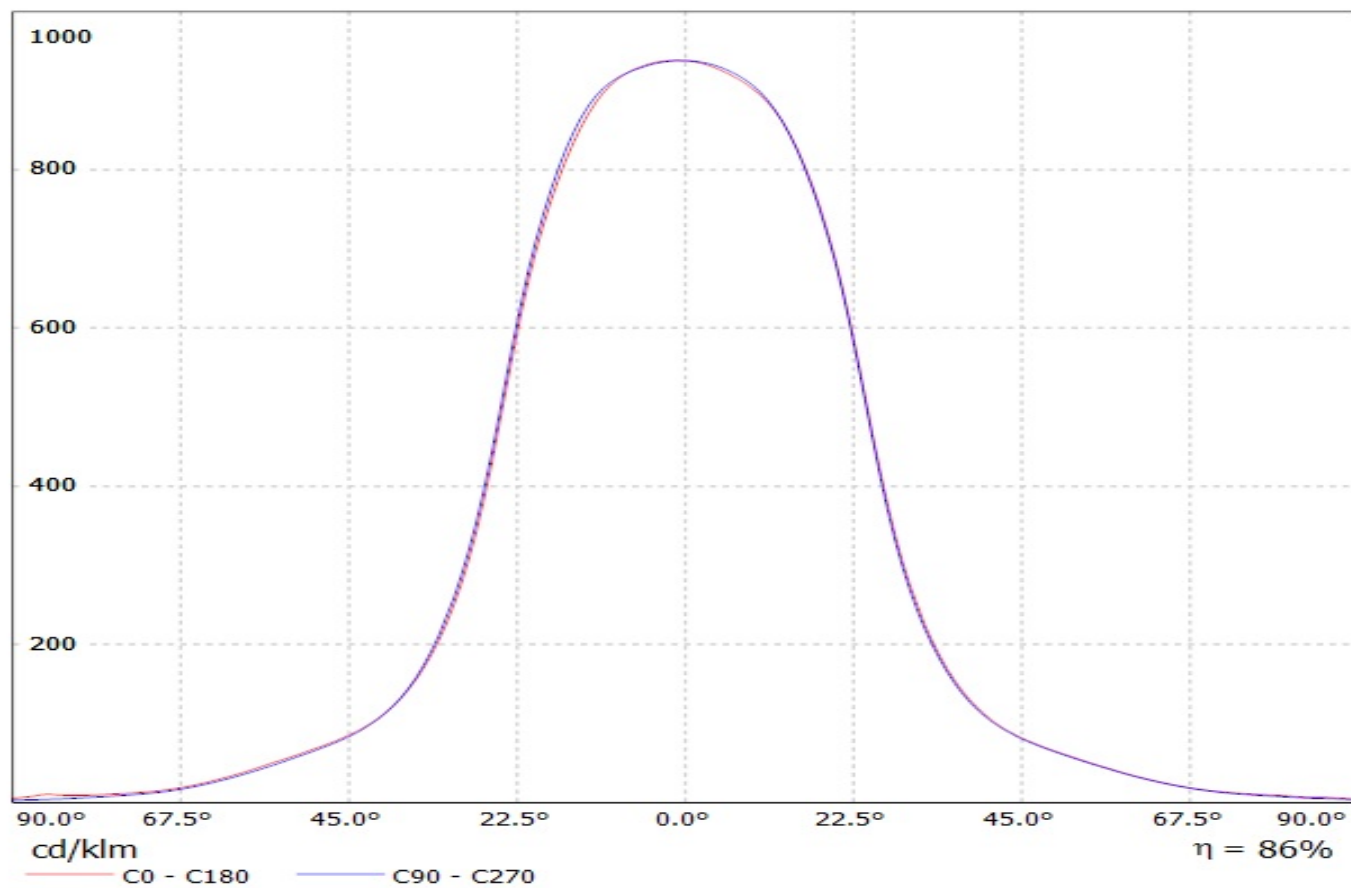
Luminaire: LEDiL Oy C12361_HB-2X2-W (LUXEON_T)_1 Eff.87.0%
Lamps: 1 x LUXEON_T 2x2 (294lm@250mA)



Luminaire: Ledil Oy C12361_HB-2X2-W_(Luxeon_Z_ES) Efficiency=87%
Lamps: 1 x Luxeon Z ES 2x2 (LXZ2-3090) 209lm @ 250mA CCT=3000K P=2.8W I=250mA

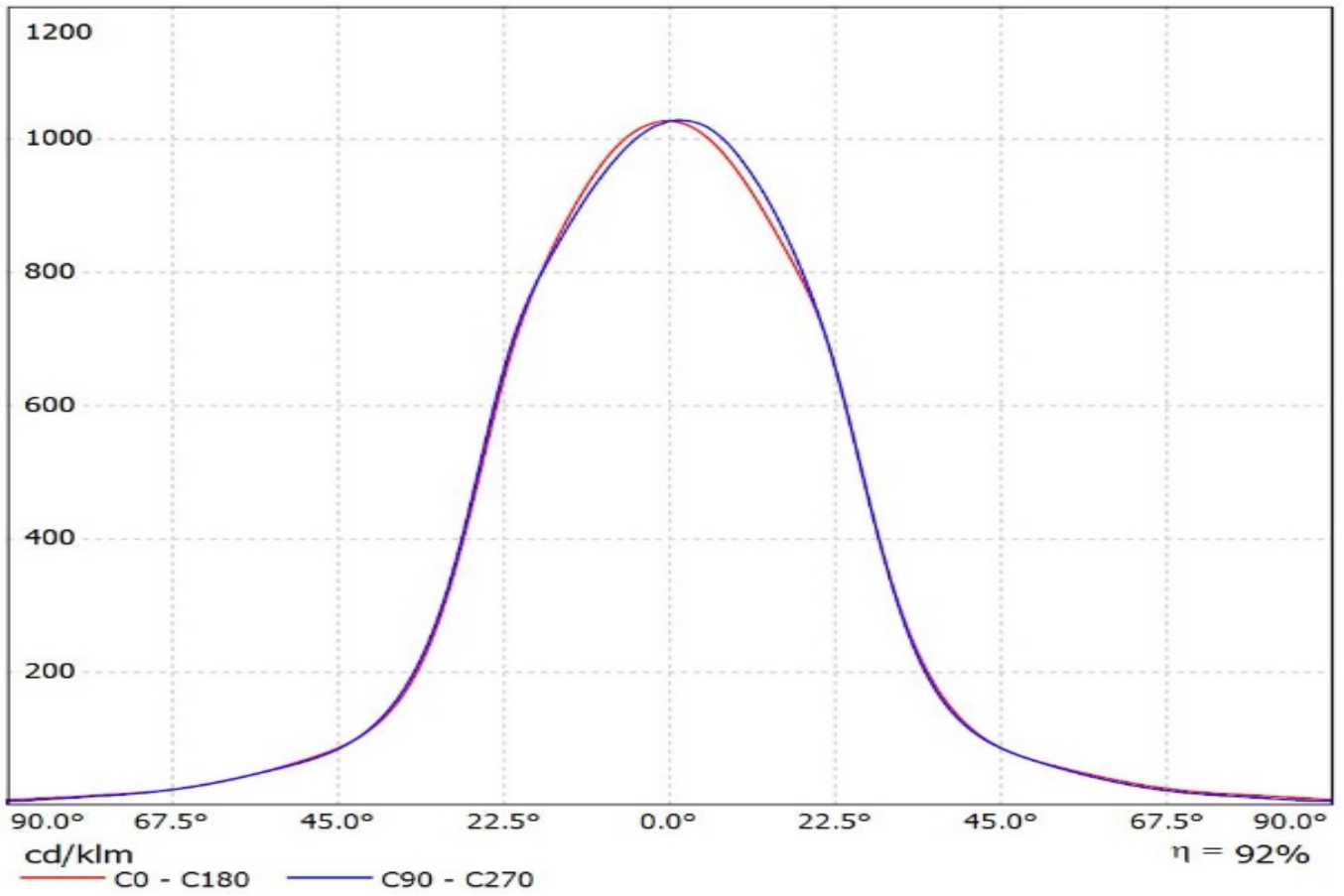


Luminaire: LEDiL Oy C12361_HB-2X2-W_(LUXEON_Q) Eff.86.3%
Lamps: 1 x LUXEON_Q_2x2_(LHQ-3080)_298.363lm@250mA_P=2.87385W_I=249.9mA

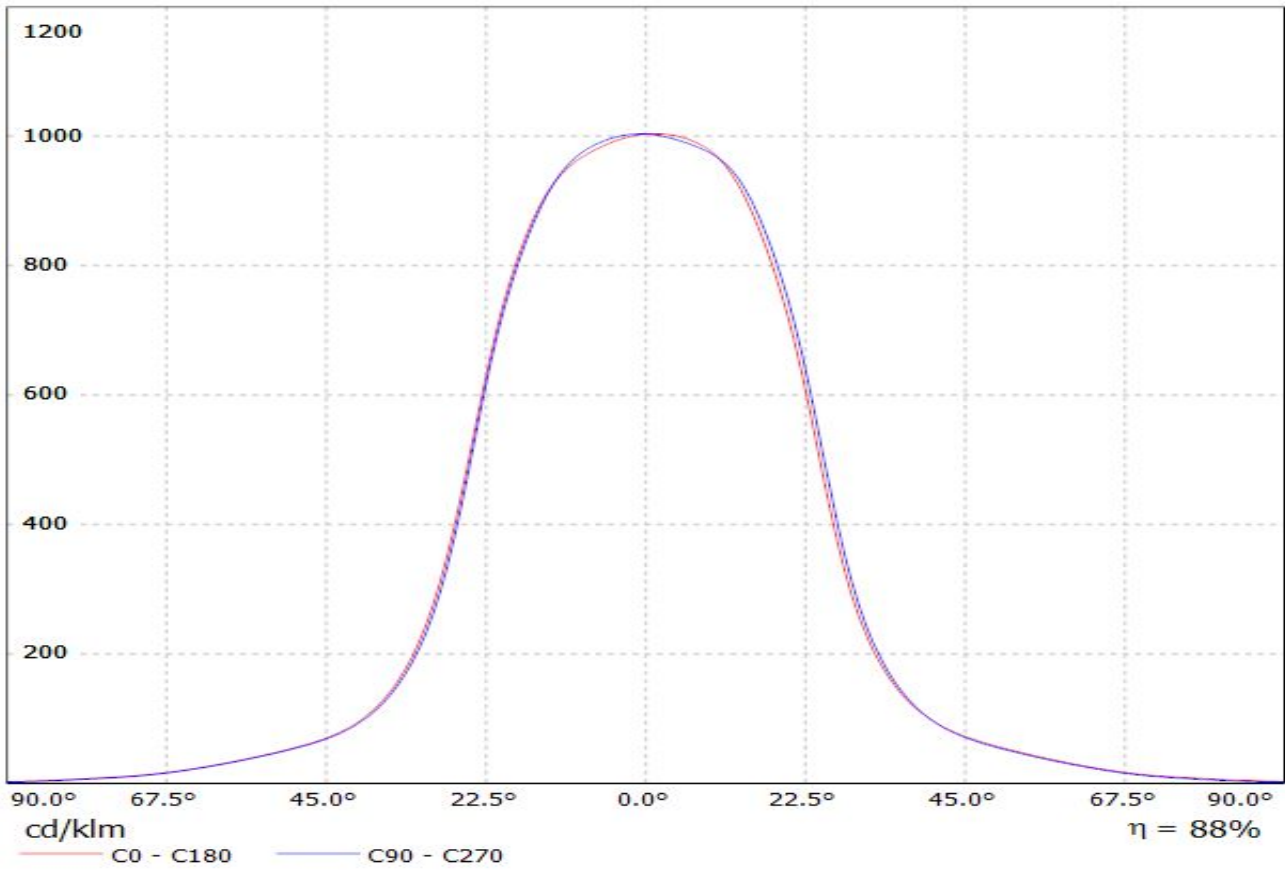


Luminaire: Ledil C12361_HB-2X2-W_(Luxeon_MZ)

Lamps: 1 x Philips_Lumileds_Luxeon_MZ_(LMZ7-QW57)_(2x2)_427.268lm@250mA_P=2.734W_I=0.2500A

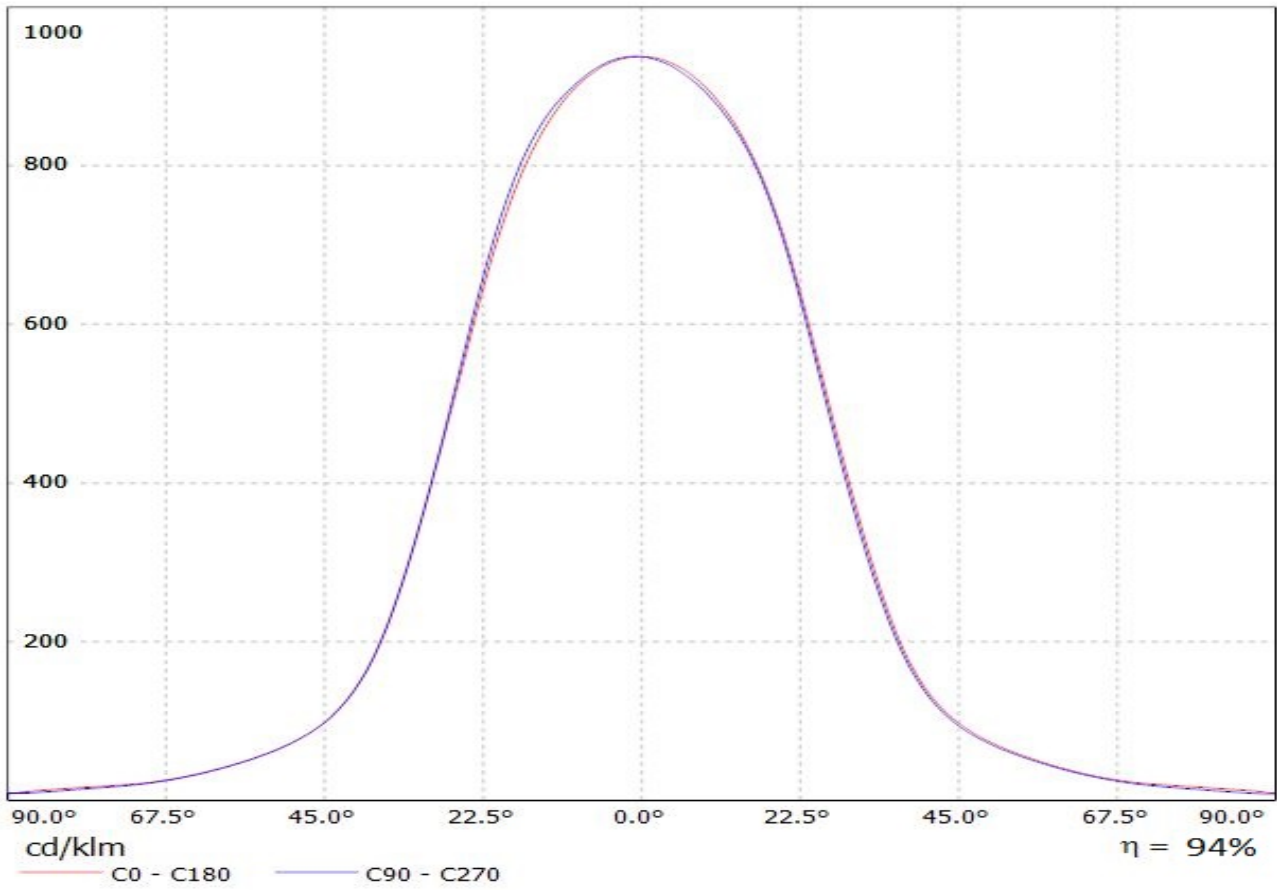


Luminaire: LEDiL Oy C12361_HB-2X2-W_(Luxeon_TX) Eff.87.5%
Lamps: 1 x Luxeon_TX_2x2_320.412lm@250mA_P=2.79013W_I=249.9mA

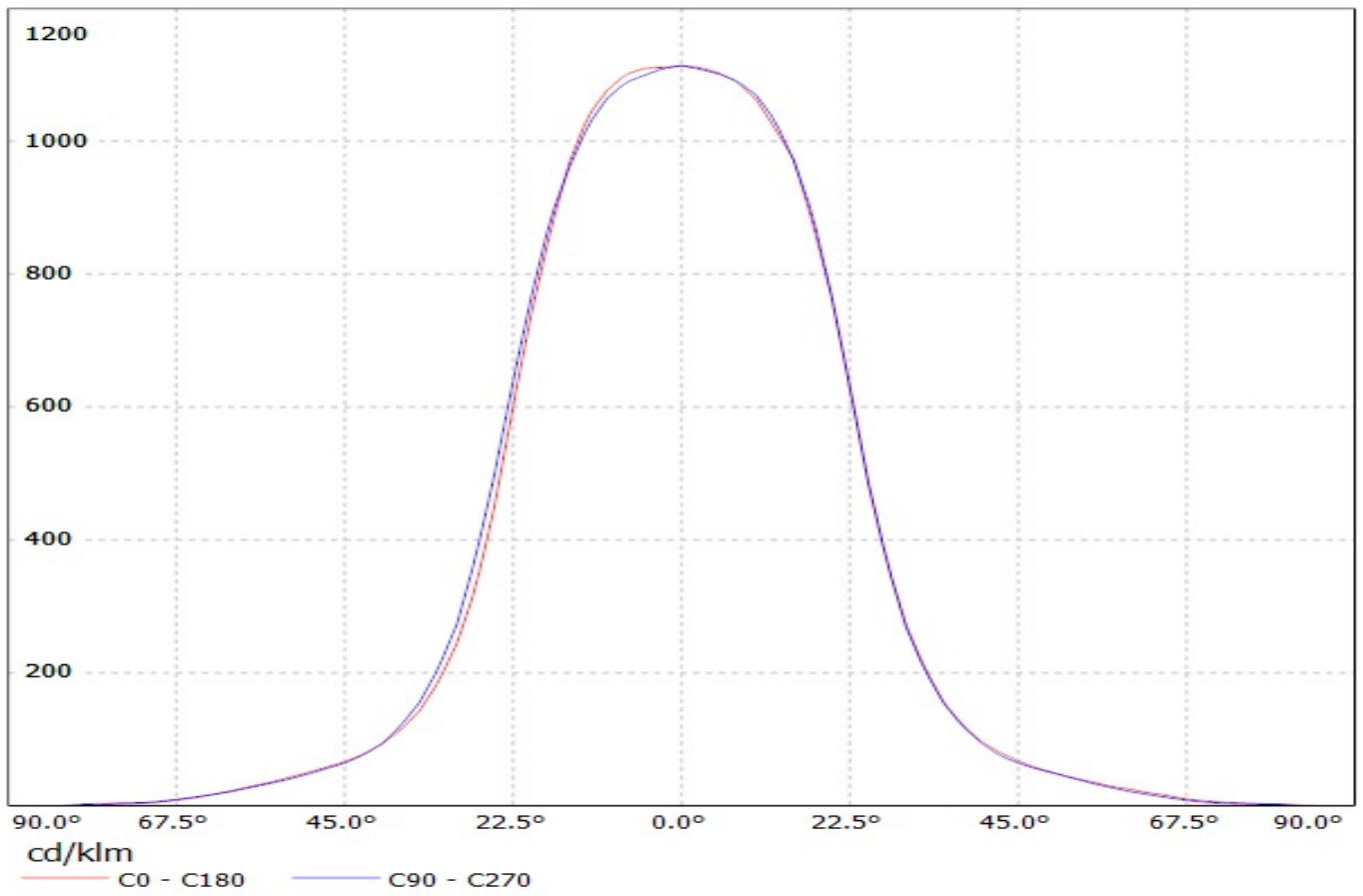


Luminaire: LEDiL Oy C12361_HB-2X2-W_(Luxeon_5050)

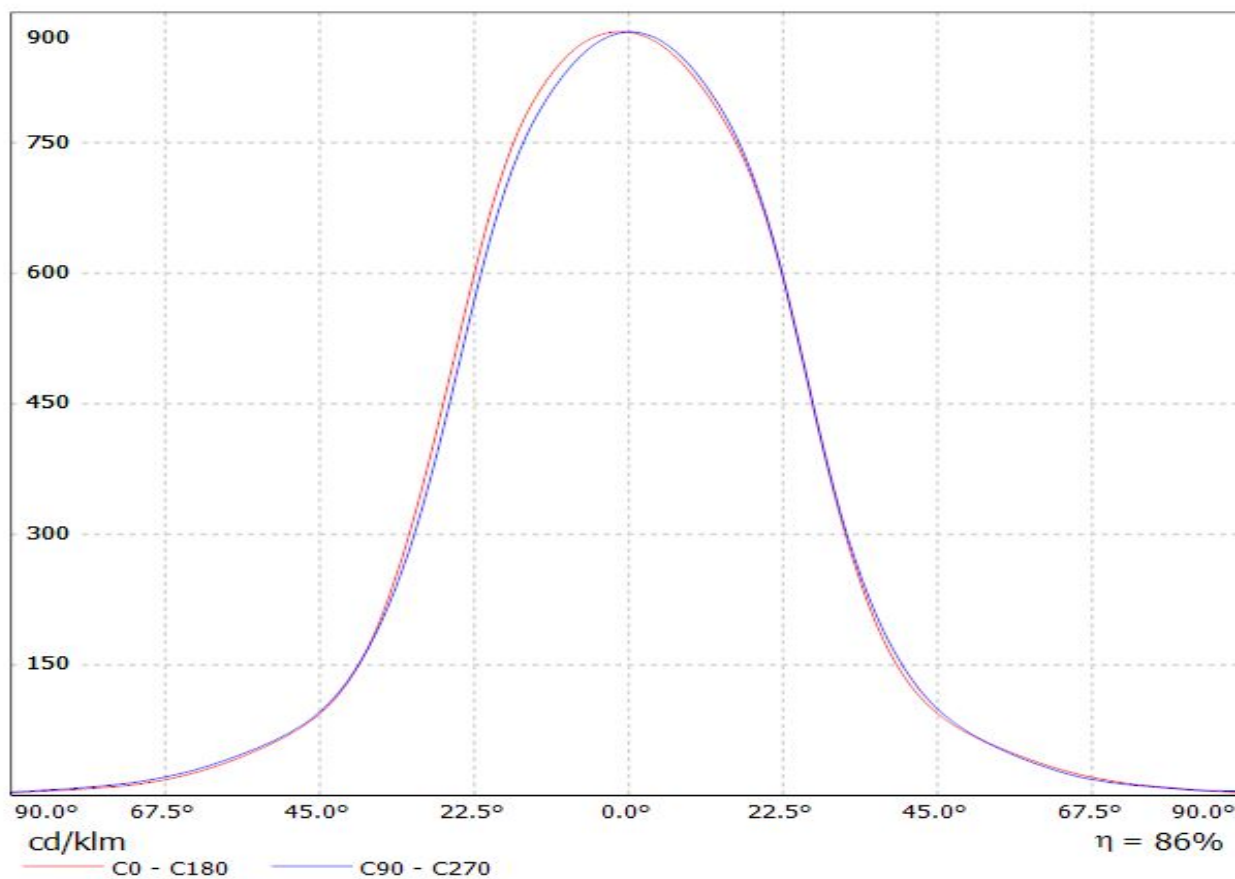
Lamps: 1 x Luxeon_5050_2x2_1270.76lm@80mA_CCT=5700K_P=7.35815W_I=0.080A_70CRI



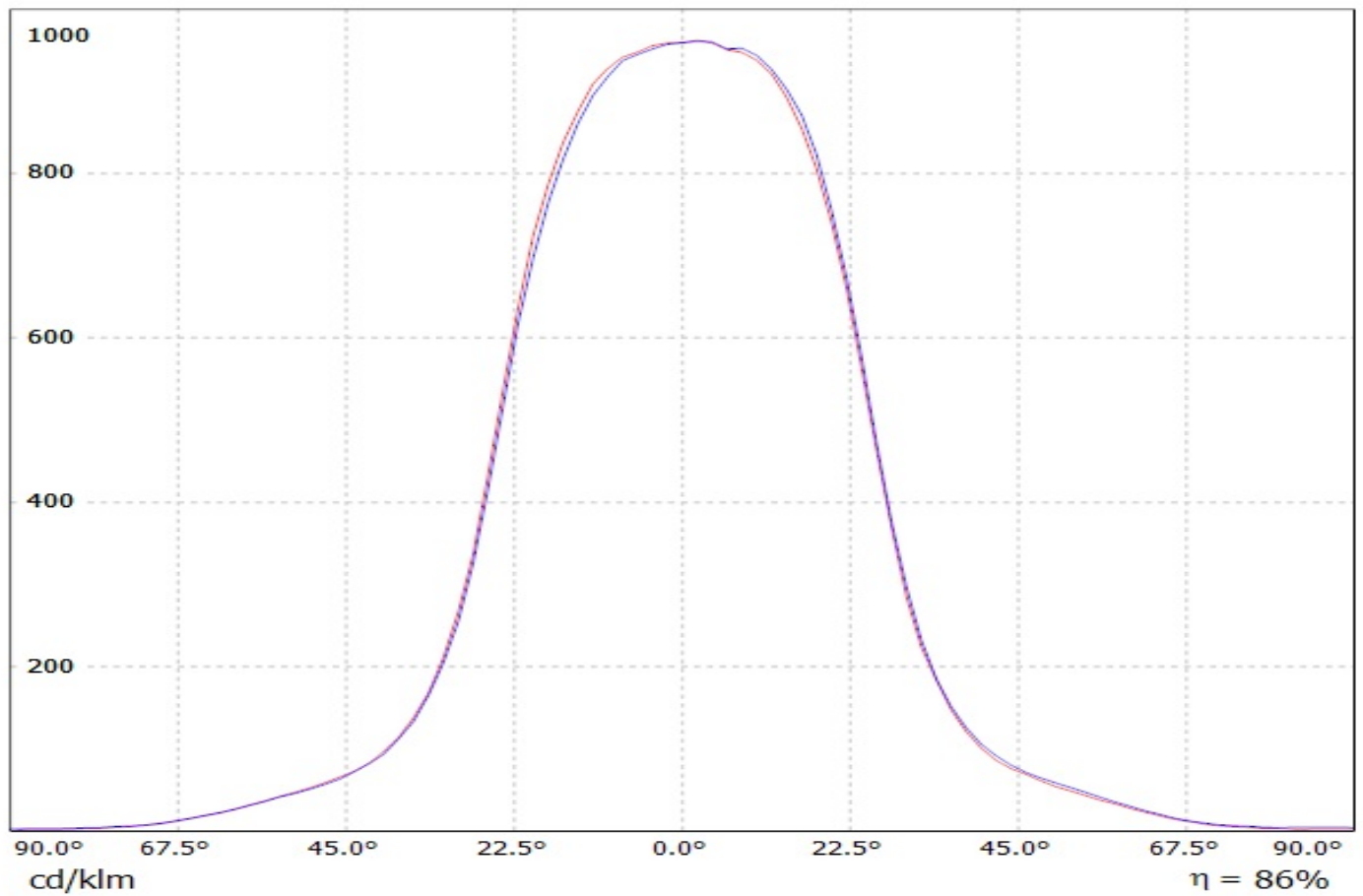
Luminaire: LEDil Oy C12361_HB-2x2-W_(NCSxx19A) Efficiency=85%
Lamps: 1 x Nichia NCSL119AT-H1) 229lm @ 250mA CCT=2800K P=3.1W I=250mA



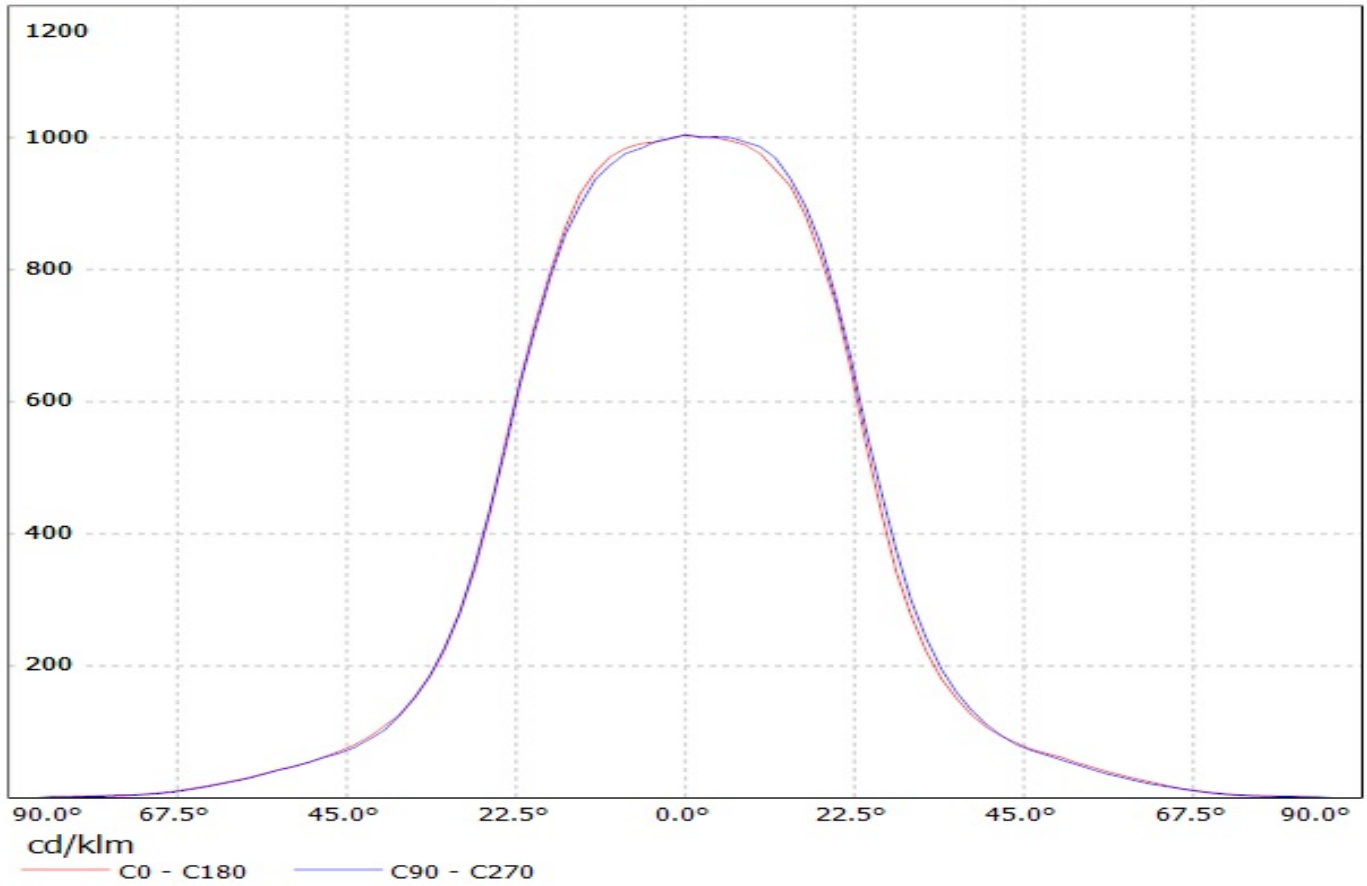
Luminaire: LEDiL Oy C12361_HB-2X2-W_(NS9x383) Eff. 86%
Lamps: 1 x Nichia NS9x383 (288lm@250mA)



Luminaire: Ledil Oy C12361_HB-2X2-W_(NVS19B) Efficiency=85%
Lamps: 1 x Nichia NVS19B (NVSL219BE) 308lm @ 250mA CCT= P=2.89W I=250mA

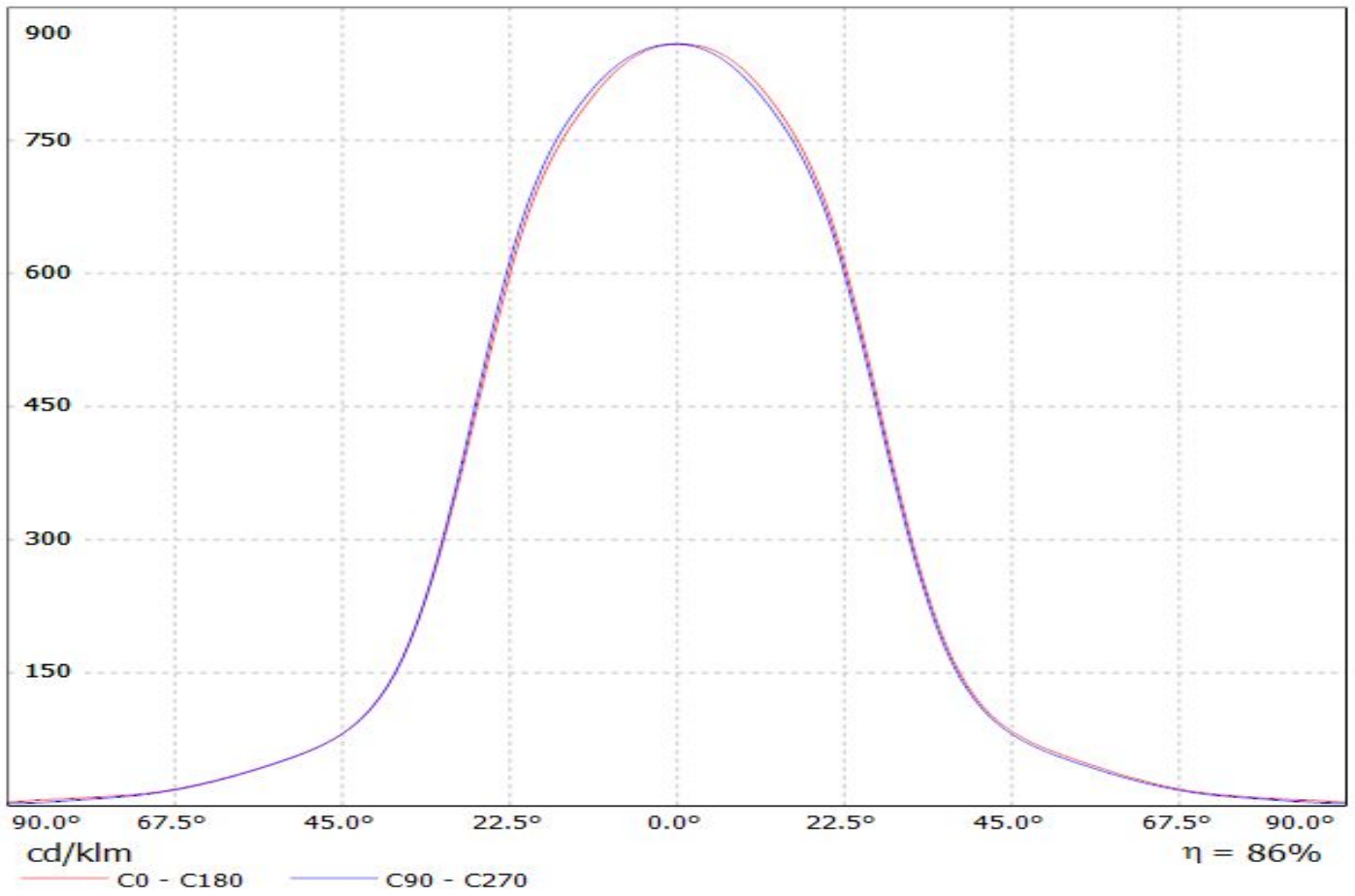


Luminaire: LEDil Oy C12361_HB-2x2-W_(NCSxx19B) Efficiency=85%
Lamps: 1 x Nichia NCSxx19b (NCSW119BE) 425lm @ 250mA CCT=5400K P=3.1W I=250mA



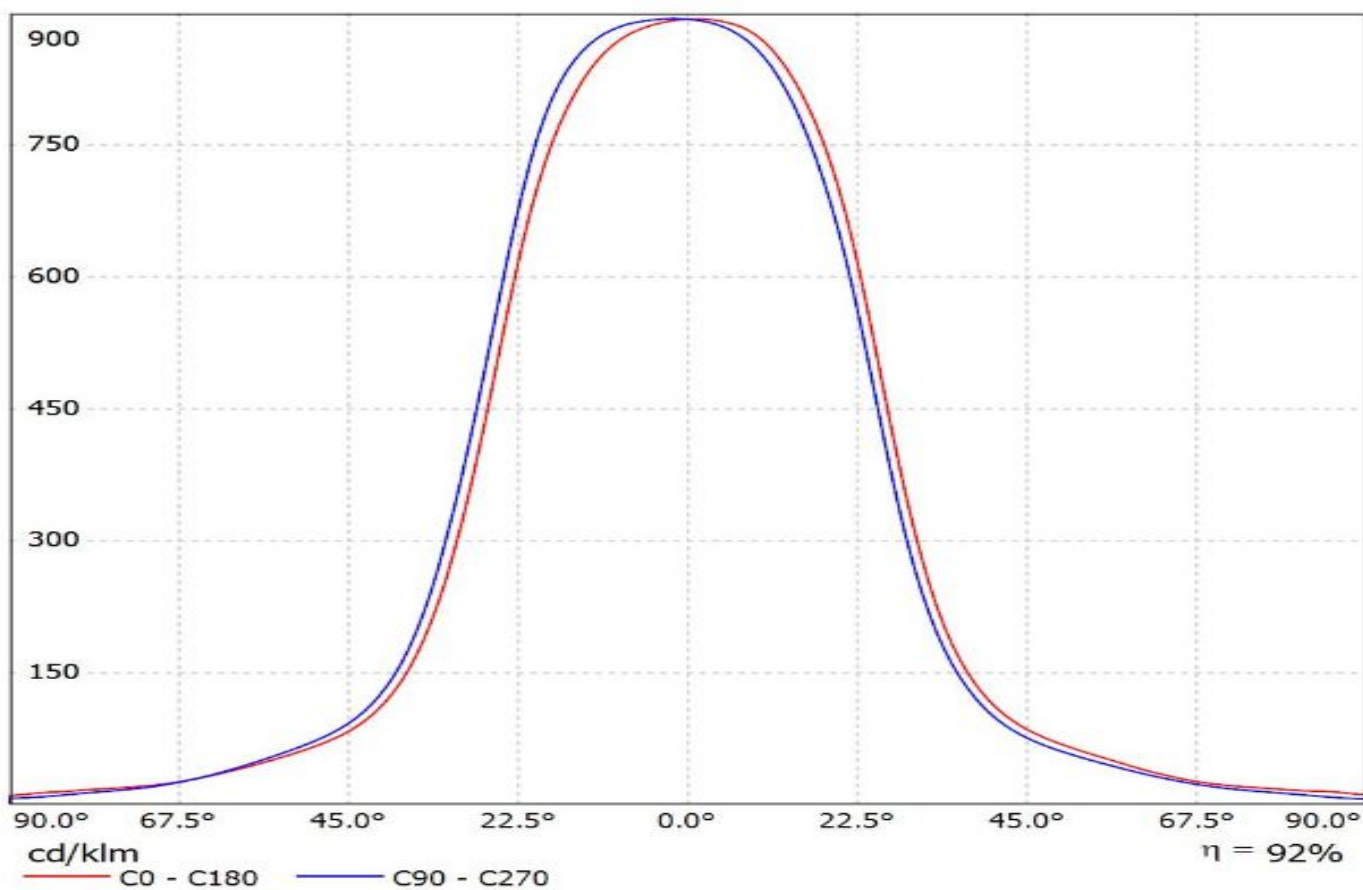
Luminaire: LEDiL Oy C12361_HB-2X2-W_(NWSL229AE)

Lamps: 1 x Nichia_2X2_NWSL229AE_476.548lm@250mA_P=2.7515W_I=0.250A

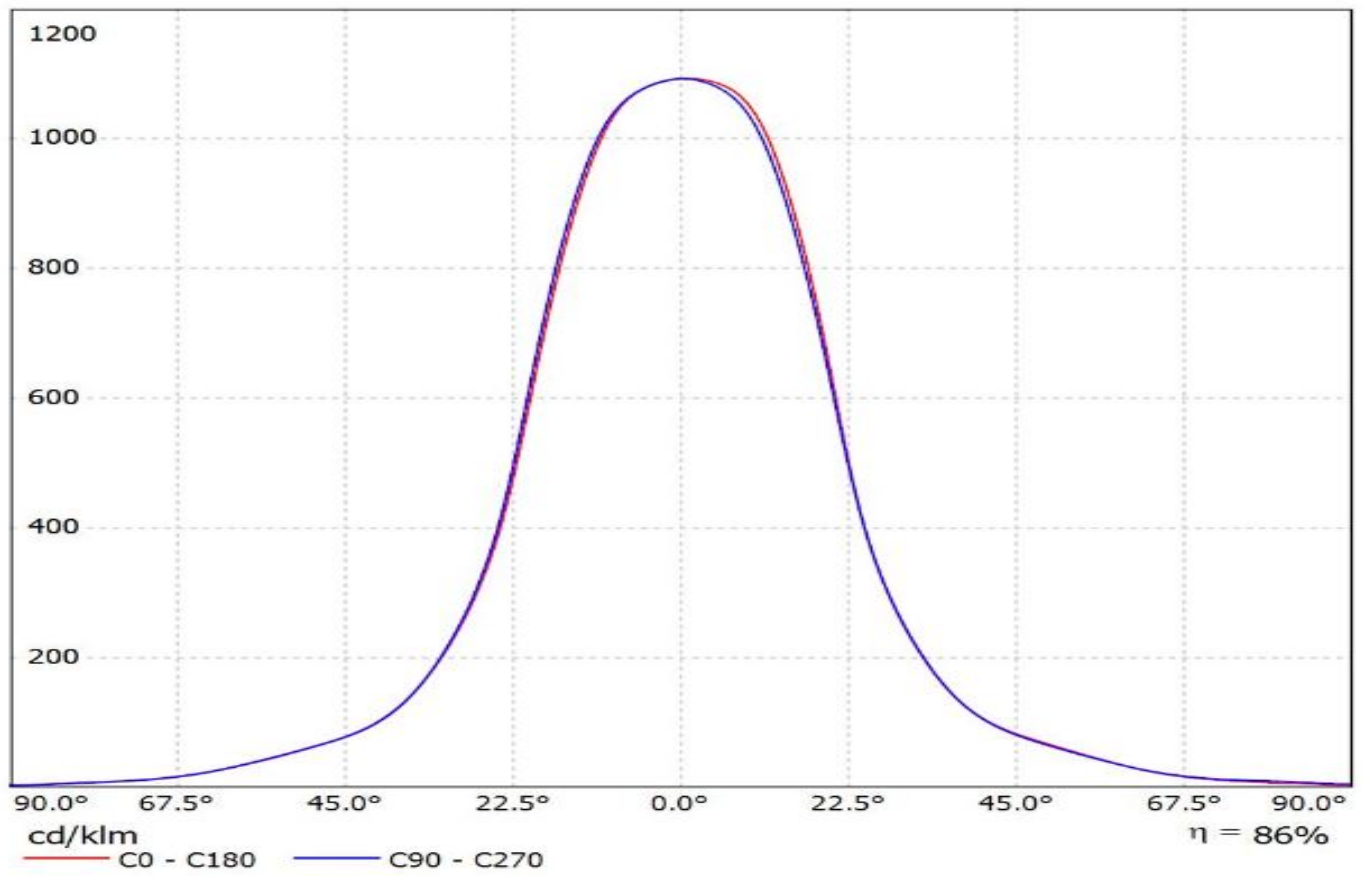


Luminaire: LEDiL Oy C12361_HB-2X2-W_(NVSW3x9A)

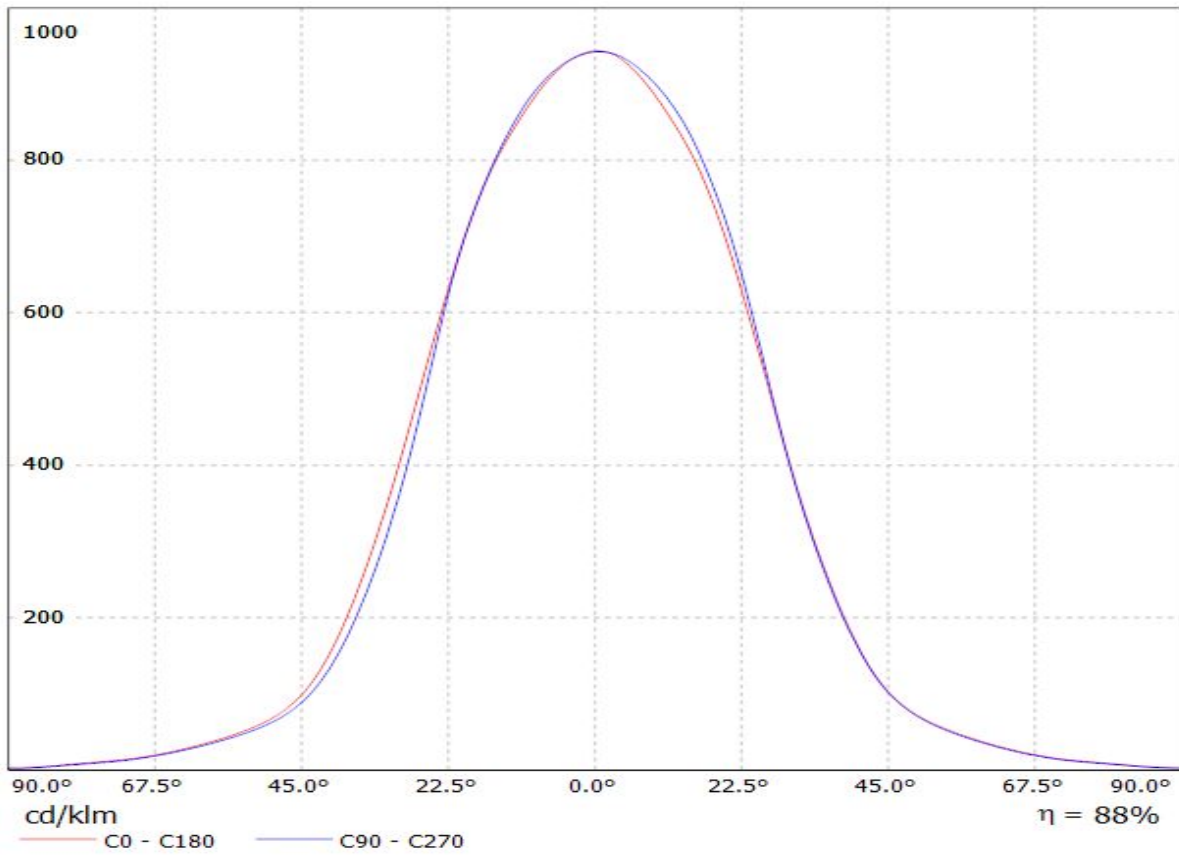
Lamps: 1 x Nichia_NVSW3x9A_(sm405/R70)_483.482lmP=2.75904W_I=0.250A



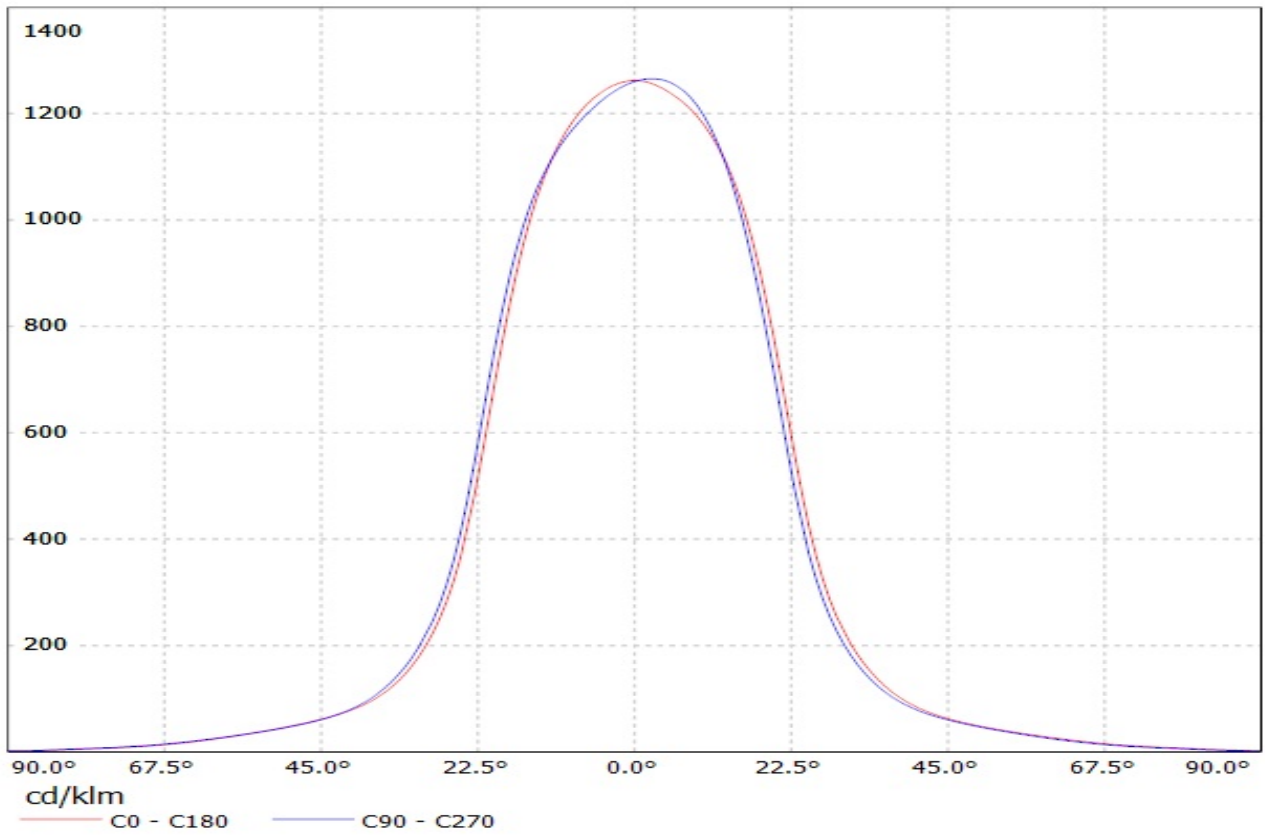
Luminaire: LEDiL Oy C12361_HB-2X2-W_(E21A)
Lamps: 1 x Nichia_E21A_2X2_454.11lm@250mA_P=2.81W_I=0.250A



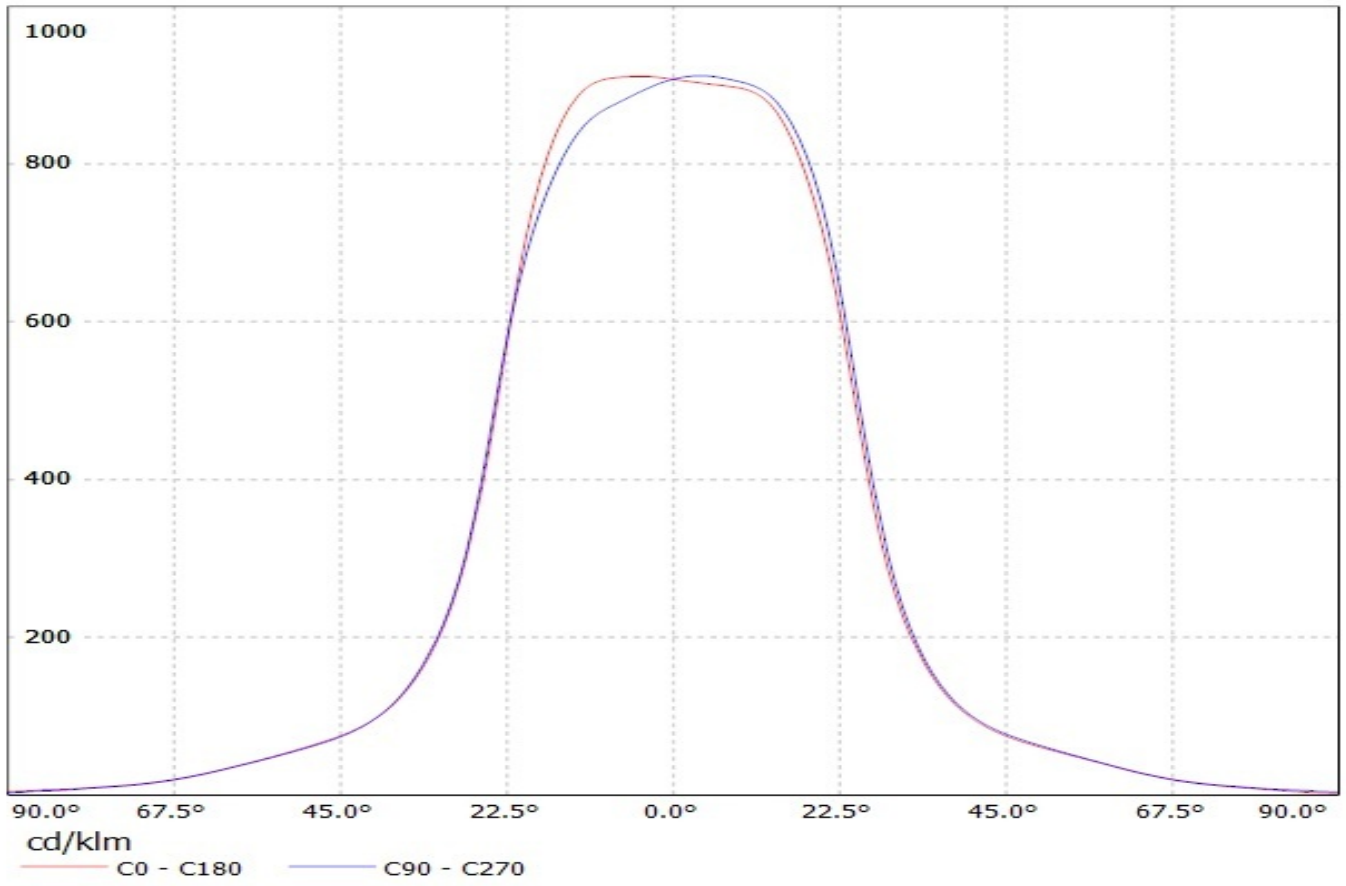
Luminaire: LEDiL Oy C12361_HB-2X2-W_(OLP-5065F6L-06A) Eff.88.5%
Lamps: 1 x OPTOGAN_2x2_(OLP-5065F6L-06A-80-D05O0) 423.091lm@250mA CCT=5000K P=2.98506W I=249.9mA



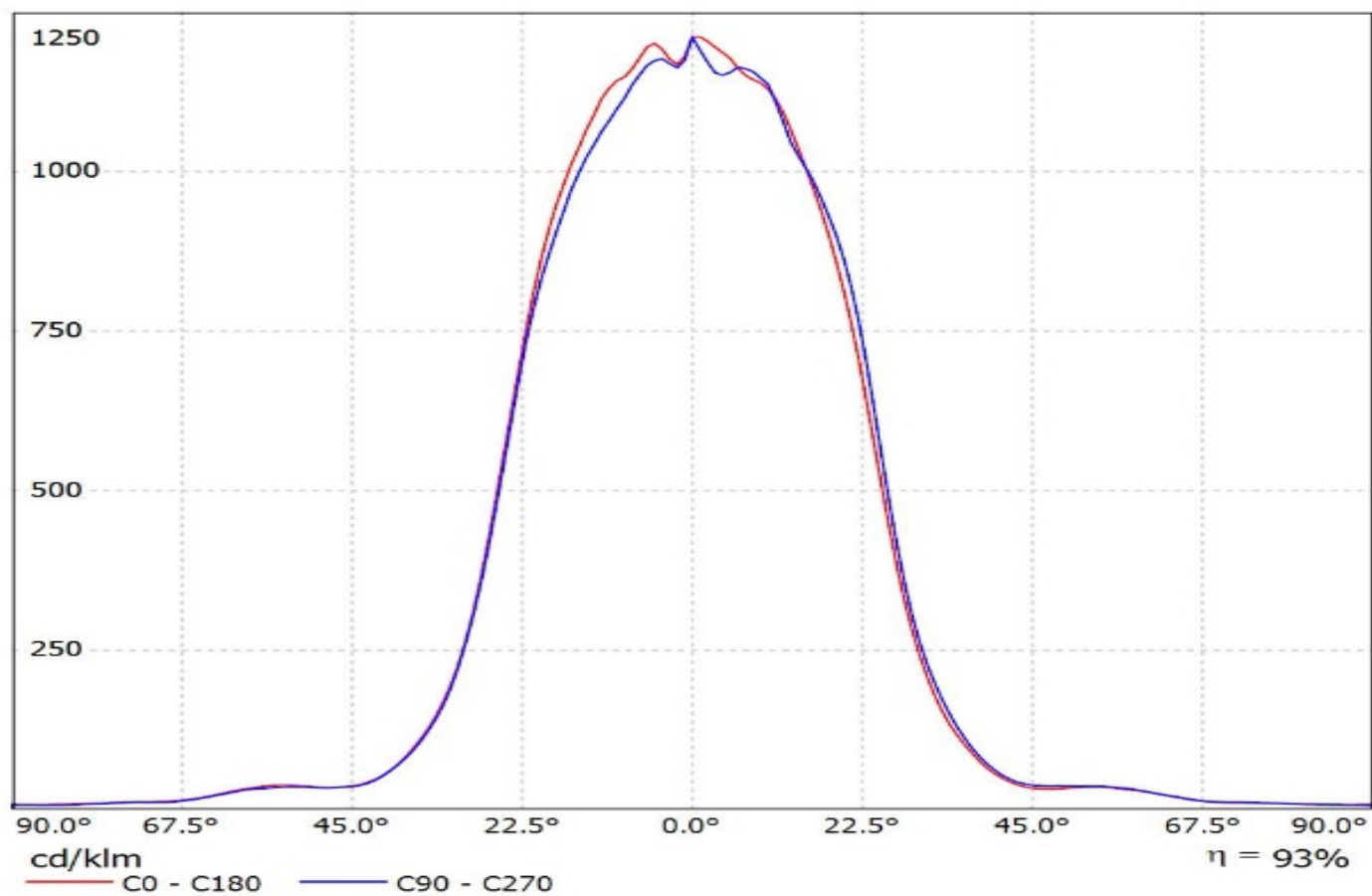
Luminaire: LEDIL OY C12361_HB-2X2 (SSL80) Efficiency=89%
Lamps: 1 x Osram SSL80 (340lm @ 250mA)



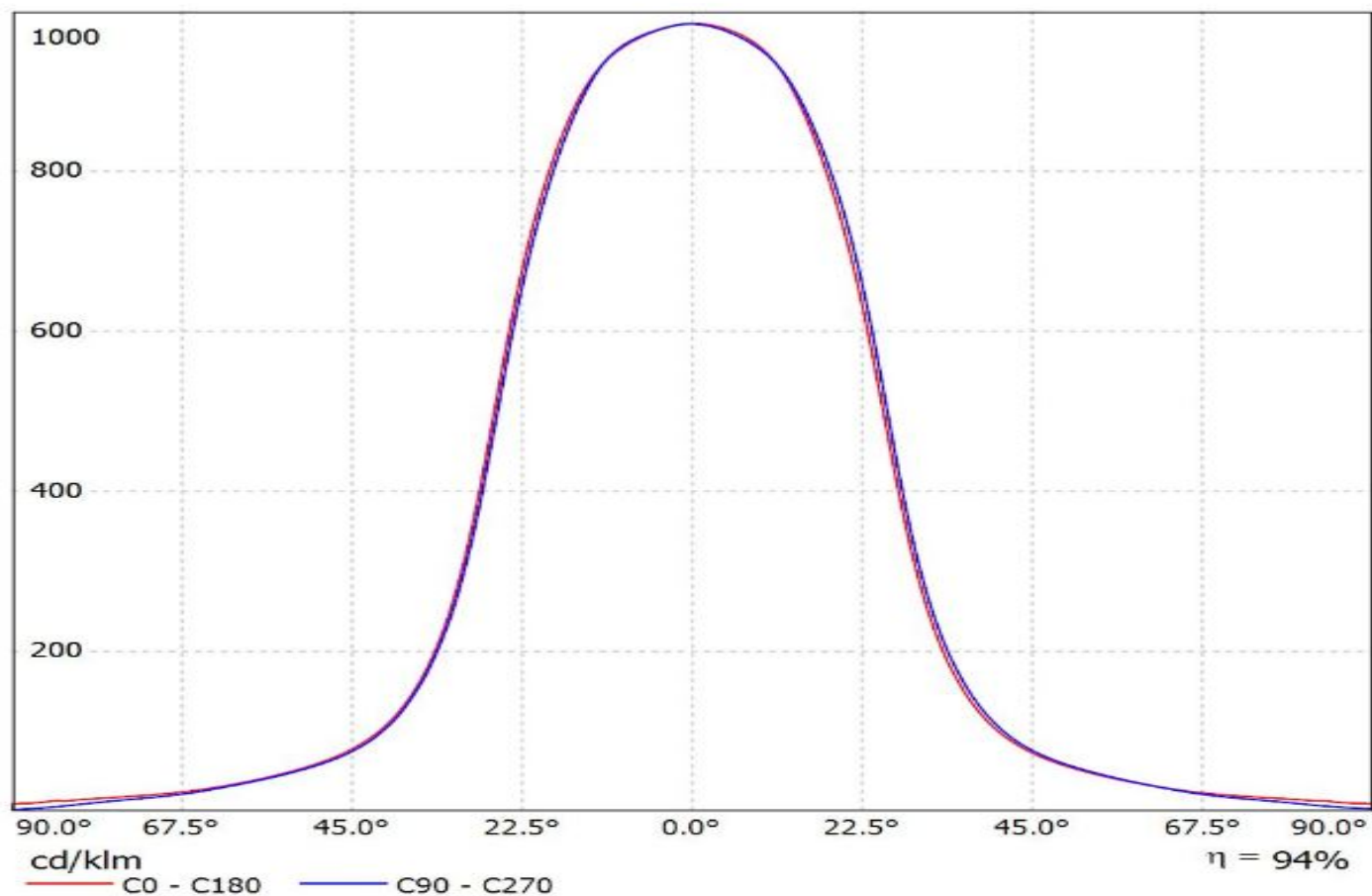
Luminaire: LEDIL OY C12361_HB-2X2_(SQ_PC) Efficiency=87%
Lamps: 1 x OSLO SQUARE PC (400.6lm)



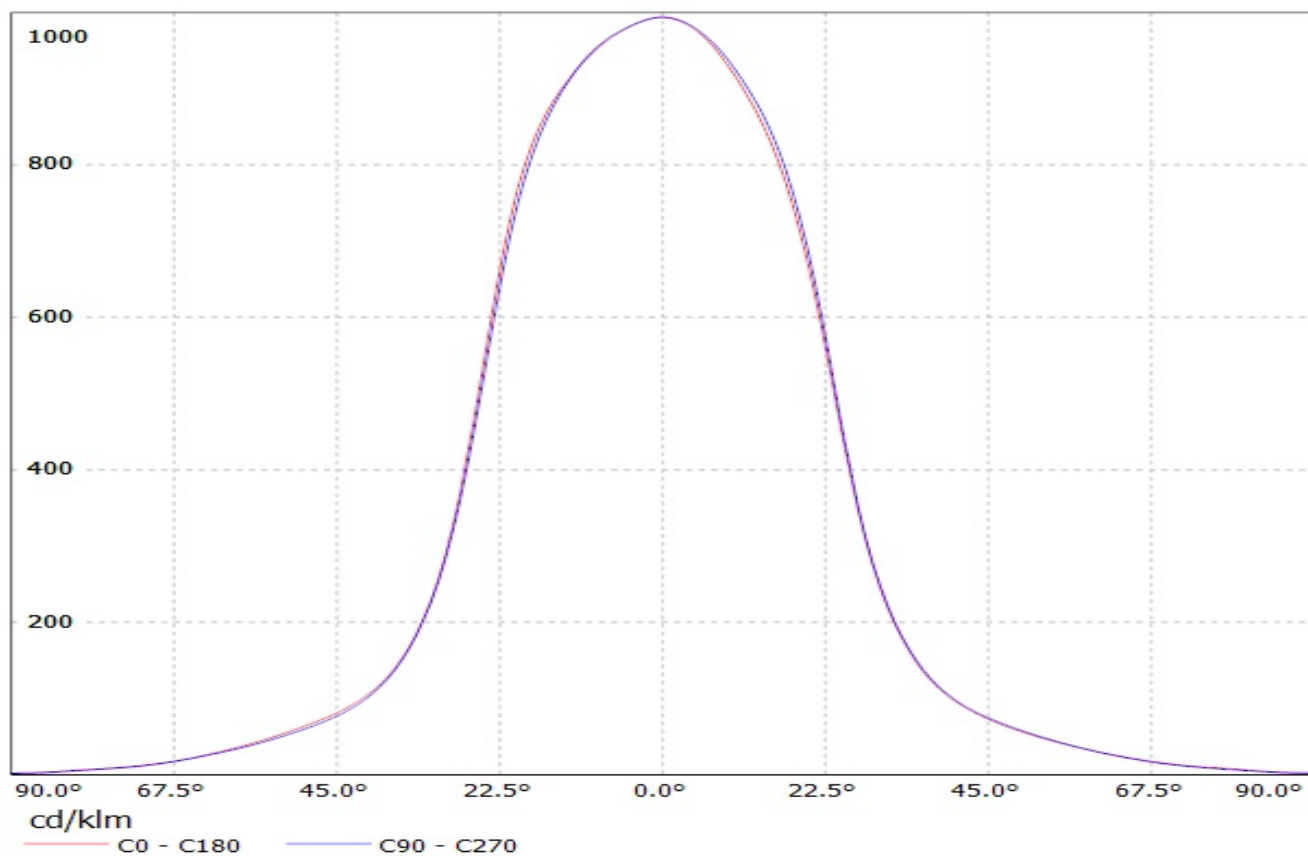
Luminaire: Ledil Oy C12361_HB-2X2-W_(Duris_P8)_SIMULATED
Lamps: 1 x Osram Duris P8



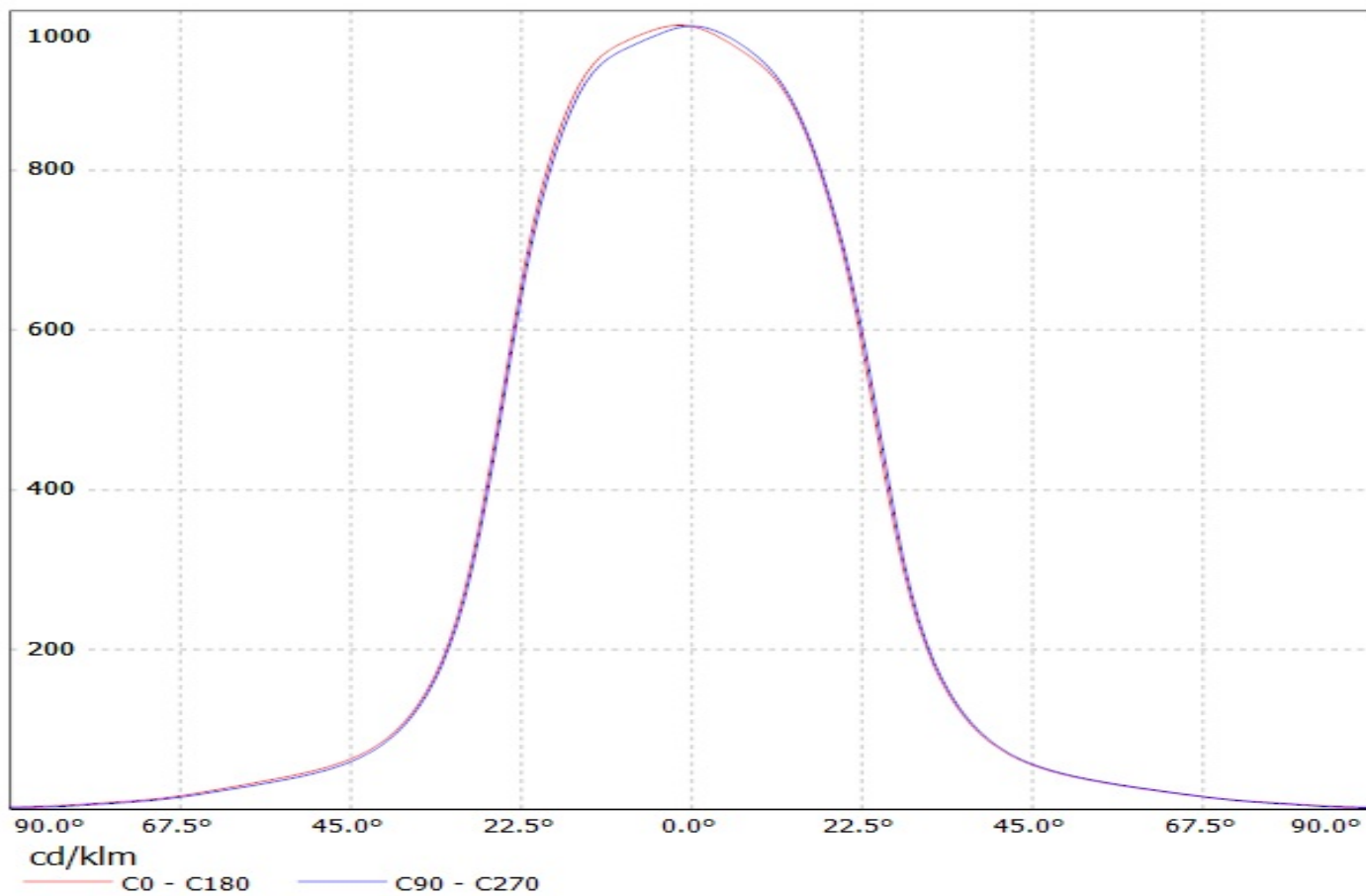
Luminaire: Ledil C12361_HB-2X2-W_(Fortimo_FastFlex_LED_board_2x8/740_DA_G3)
Lamps: 1 x Fortimo_FastFlex_LED_board_2x8/740_DA_G3_1828.23lm@250mA_P=11.667W_I=0.25A



Luminaire: LEDIL OY C12361_HB-2X2 (3535) Efficiency=89%
Lamps: 1 x SAMSUNG 3535 (353lm @ 250mA)

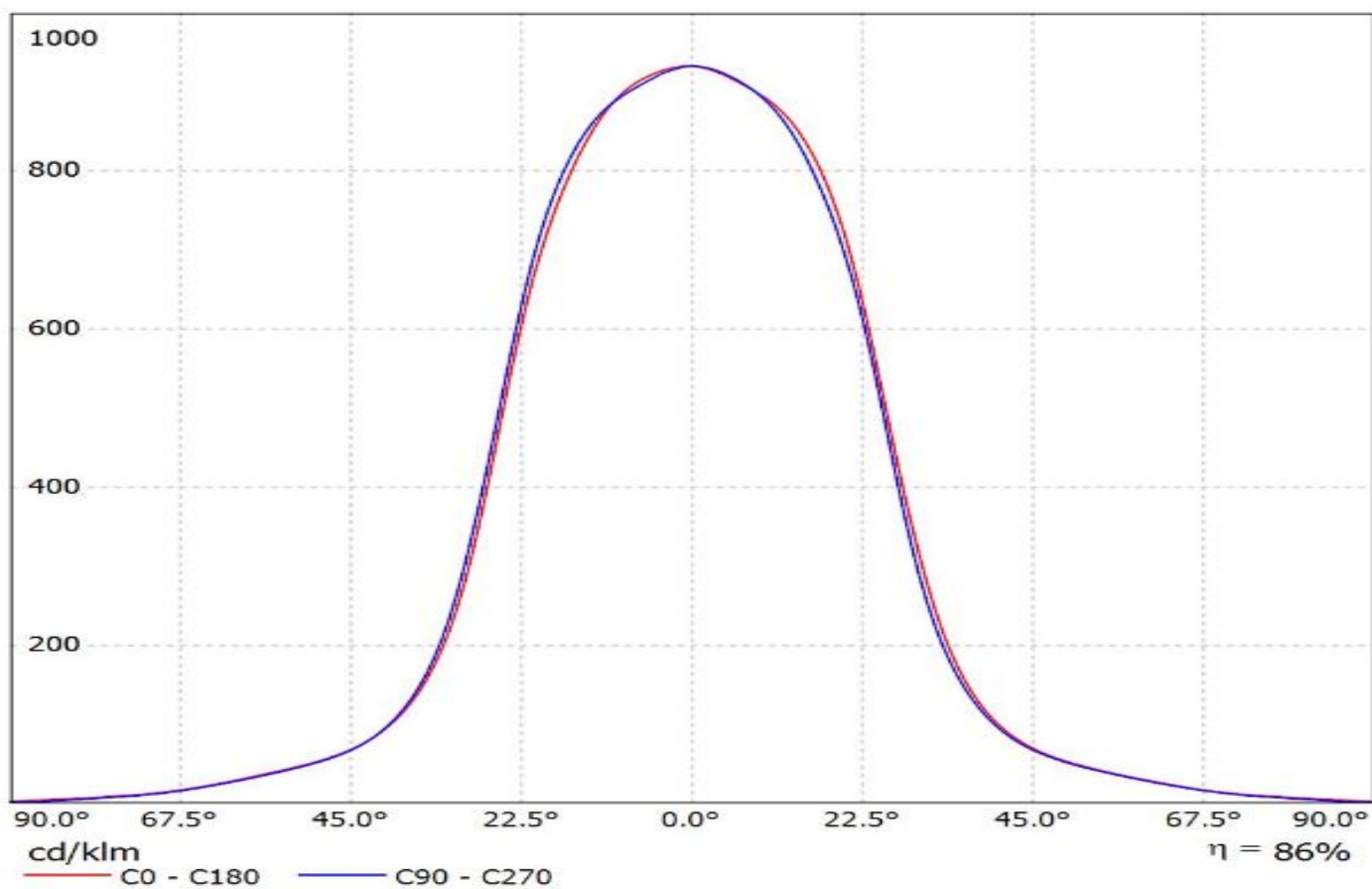


Luminaire: LEDiL Oy C12361_HB-2X2-W_(LH351Z) Eff.87.4%
Lamps: 1 x SAMSUNG_LH351Z_2x2_359.49lm@250mA_P=2.86371W_I=249.8mA



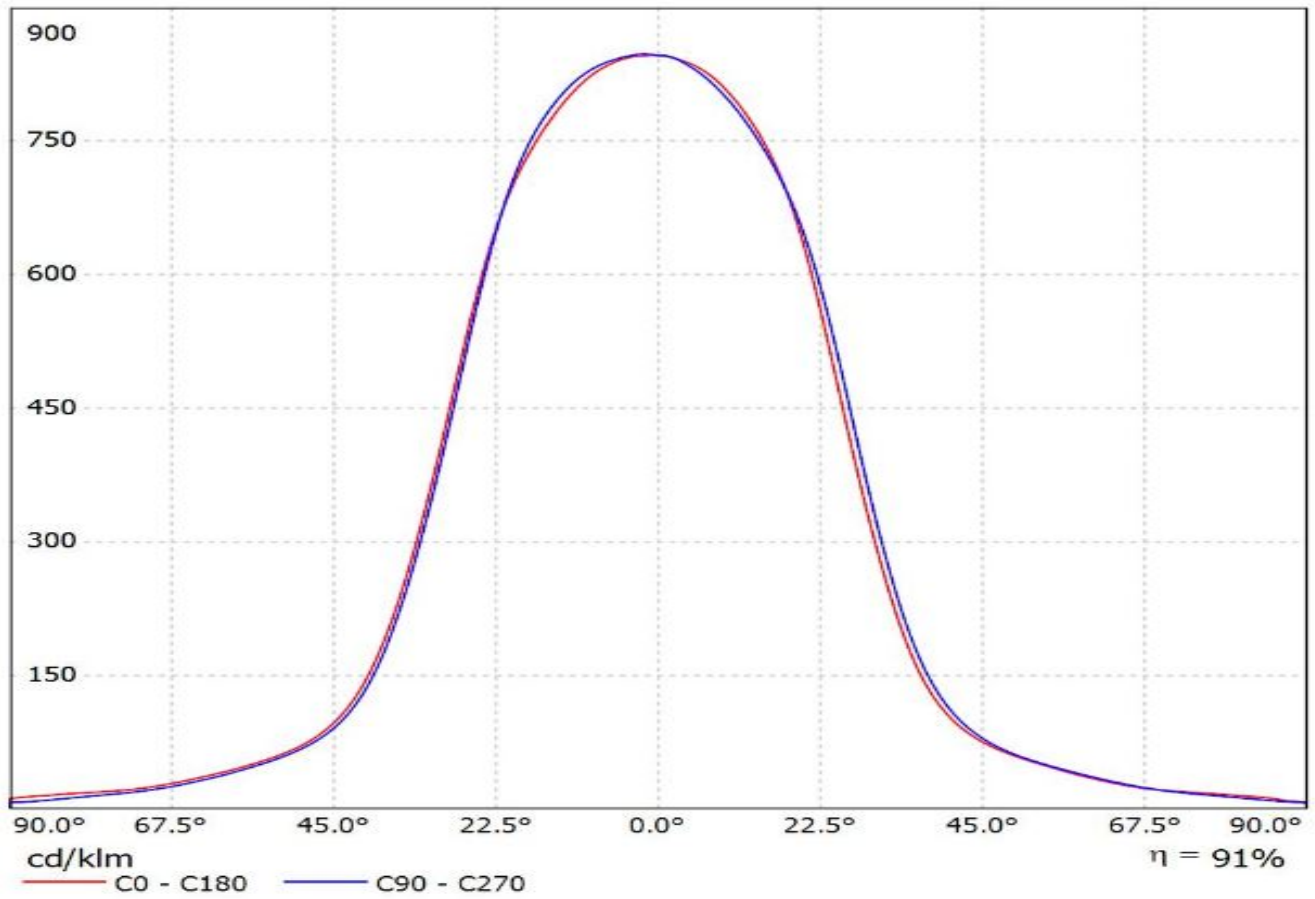
Luminaire: Ledil C12361_HB-2X2-W_(LH351B)

Lamps: 1 x Samsung_LH351B_2x2_444.178lm@250mA_P=2.8535W_I=0.25A

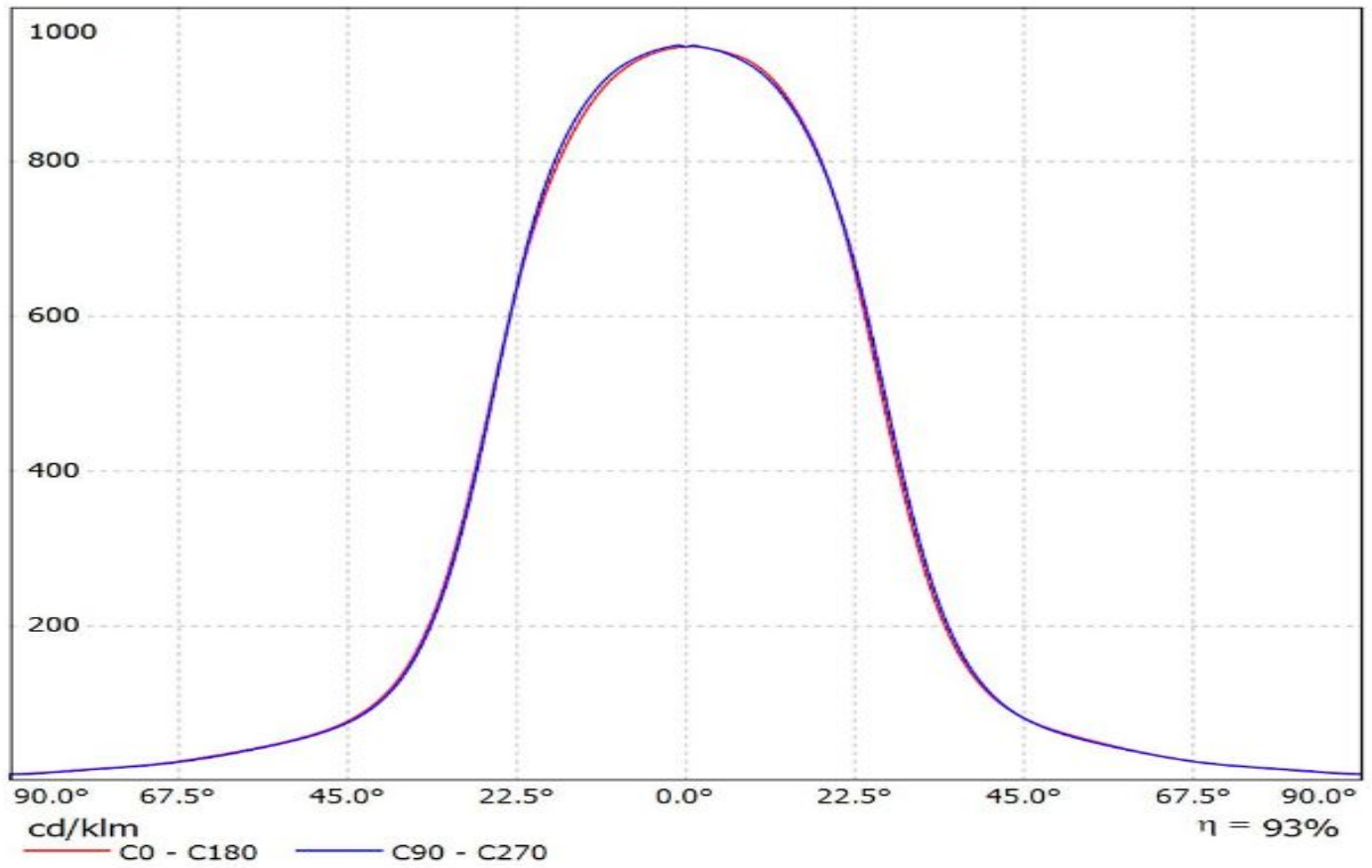


Luminaire: Ledil C12361_HB-2X2-W_(LH351D)

Lamps: 1 x Samsung_LH351D_536.957lm@250mA_P=2.7695W_I=0.250A

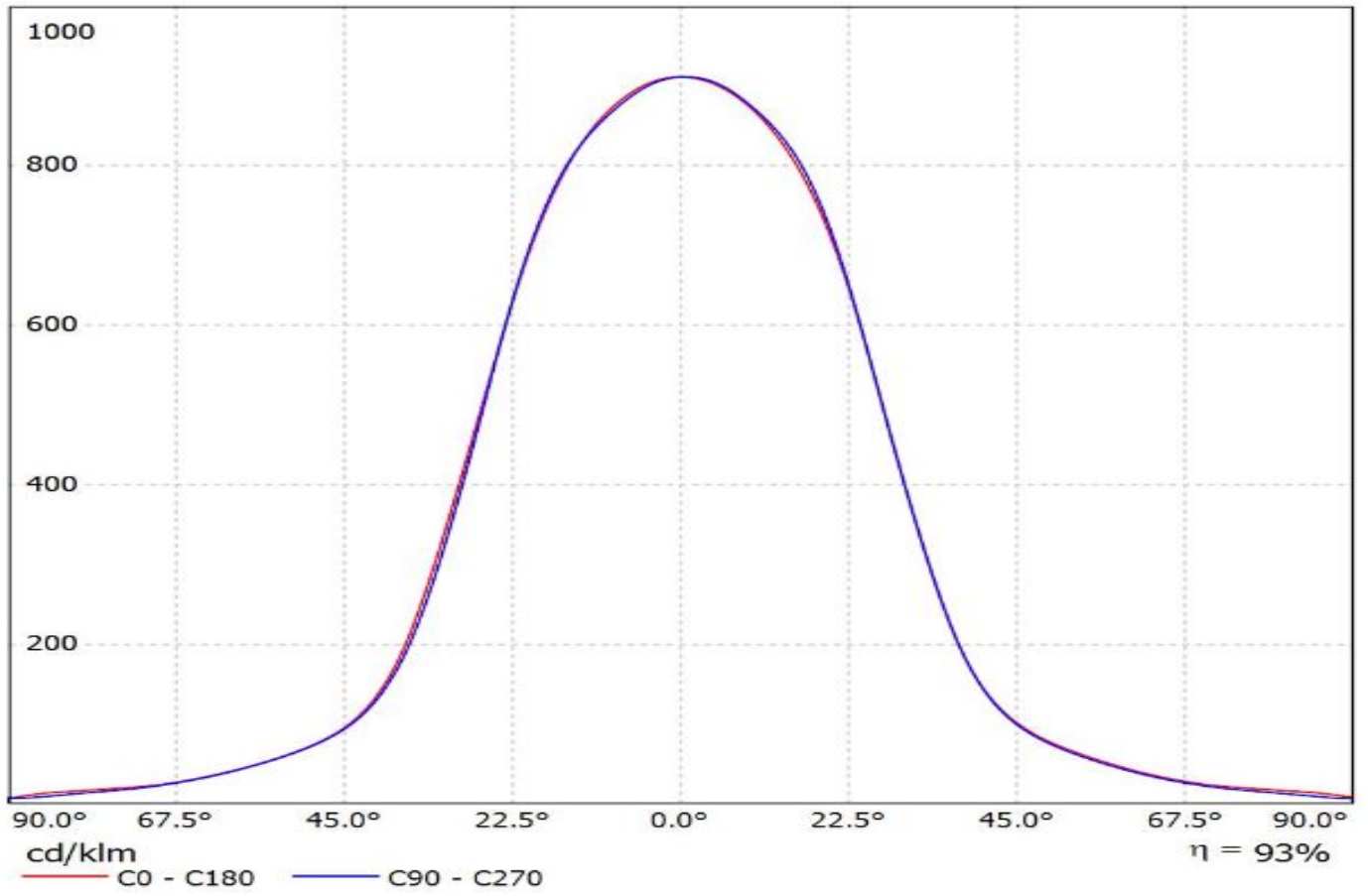


Luminaire: Ledil C12361_HB-2X2-W_(LH351C)
Samsung_LH351C_518.223lm@250mA_P=2.85225W_I=0.25A
Lamps: 1 x Samsung_LH351C_518.223lm@250mA_P=2.85225W_I=0.25A

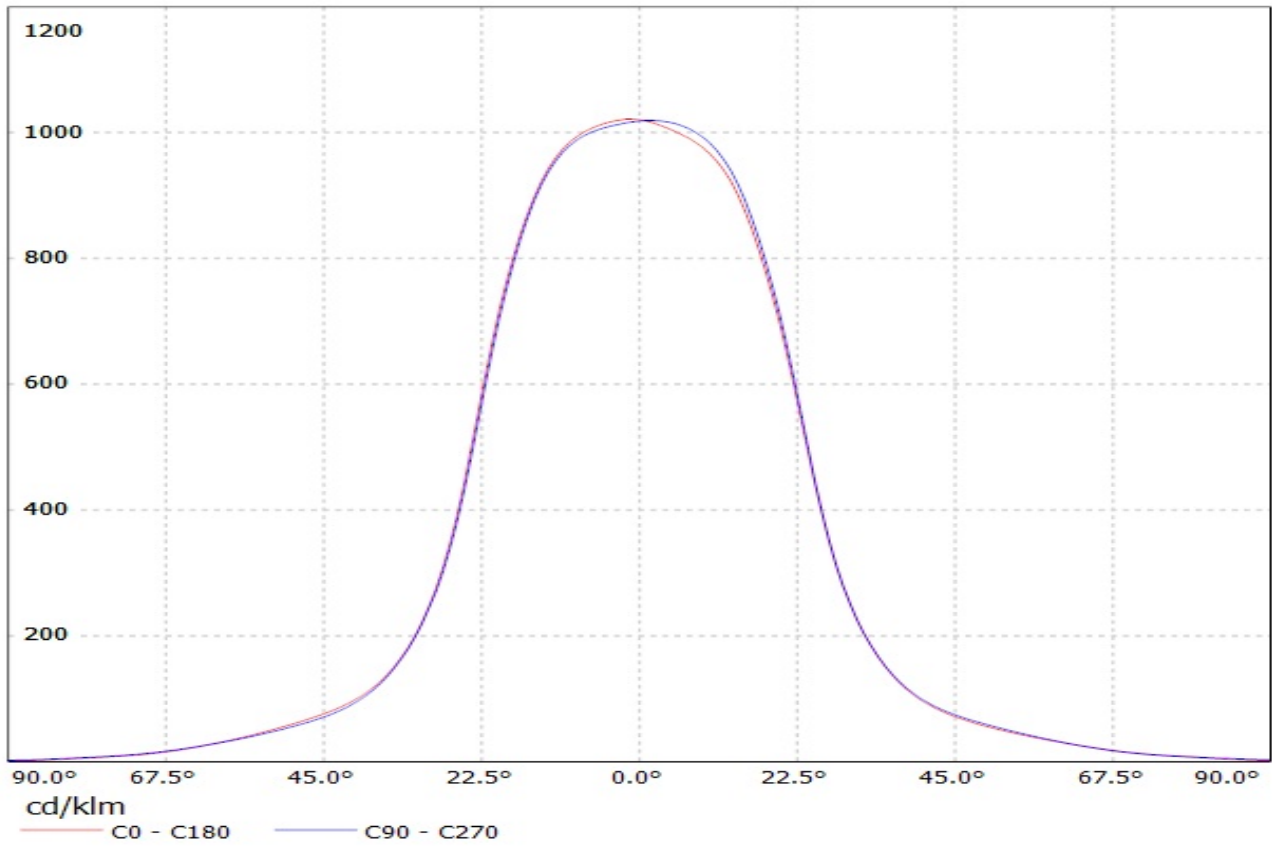


Luminaire: Ledil C12361_HB-2X2-W_(LH508A)

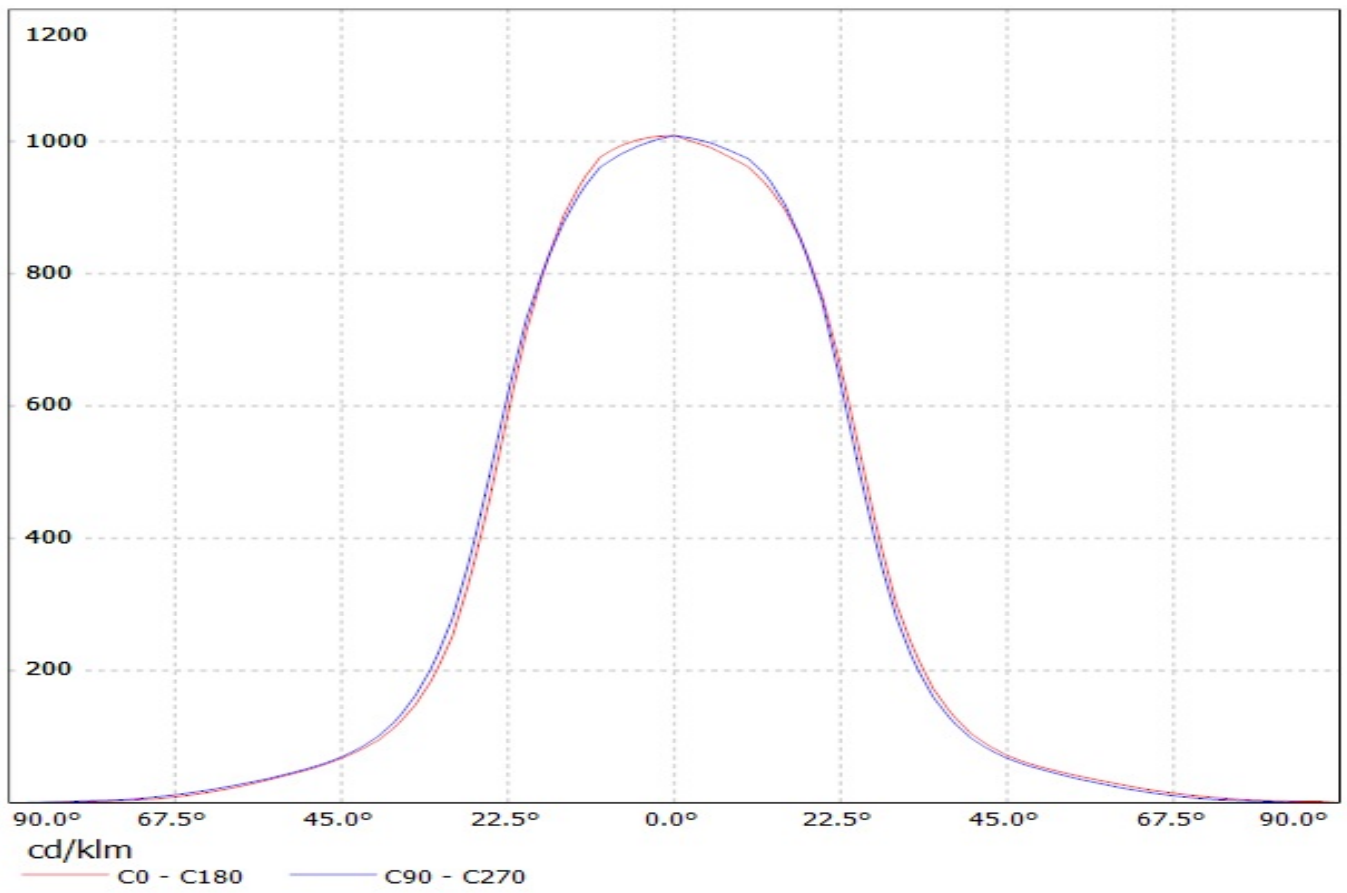
Lamps: 1 x Samsung_LH508A_2x2_2060.04lm@160mA_CCT=5000K_CRI=80_P=15.5405W_I=0.16A



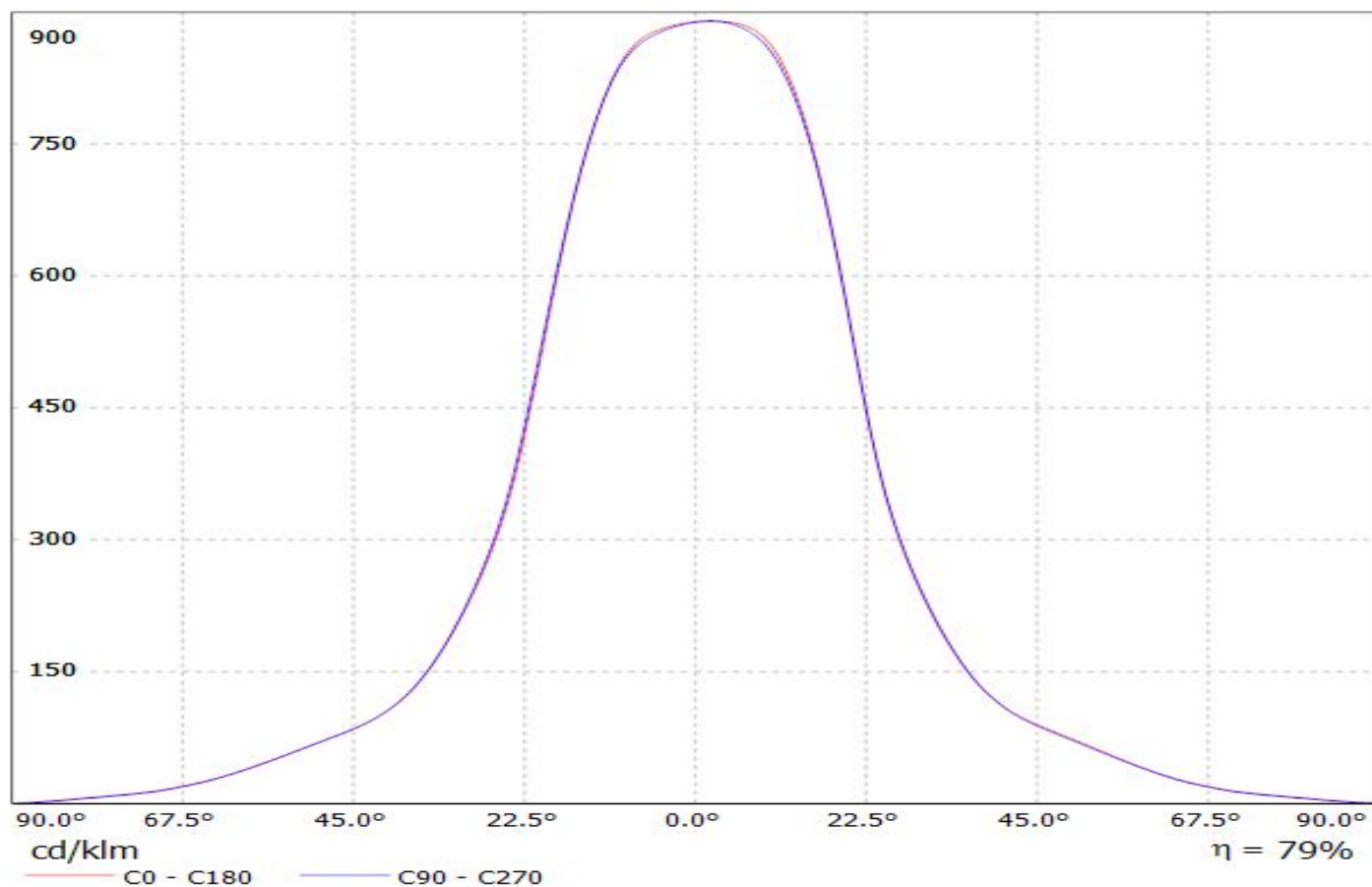
Luminaire: LEDIL OY C12361_HB-2X2 (Z5) Efficiency=88%
Lamps: 1 x Seoul Z5 (290lm @ 250mA)



Luminaire: LEDil Oy C12361_HB-2X2-W_(Z5M1) Efficiency=85%
Lamps: 1 x Seoul Z5M1 (SZ5-M1-WN-C8) 379lm @ 250mA CCT=4600K P=2.9W I=250mA

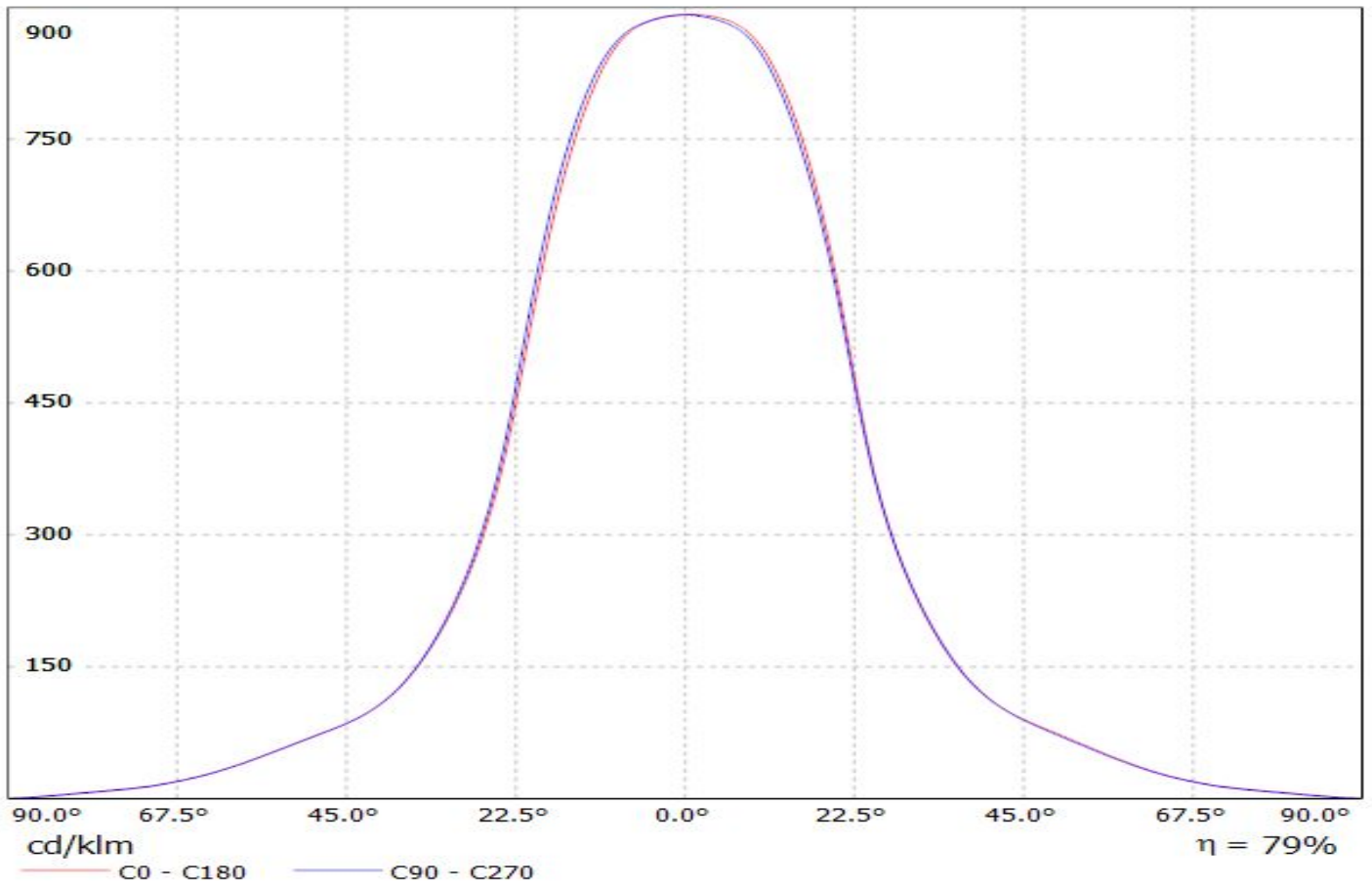


Luminaire: LEDiL Oy C12361_HB-2X2-W_(WICOP2_Z8Y15)
Lamps: 1 x SEOUL_WICOP2_Z8Y15_336.842lm@250mA_P=2.9399W_I=0.250A

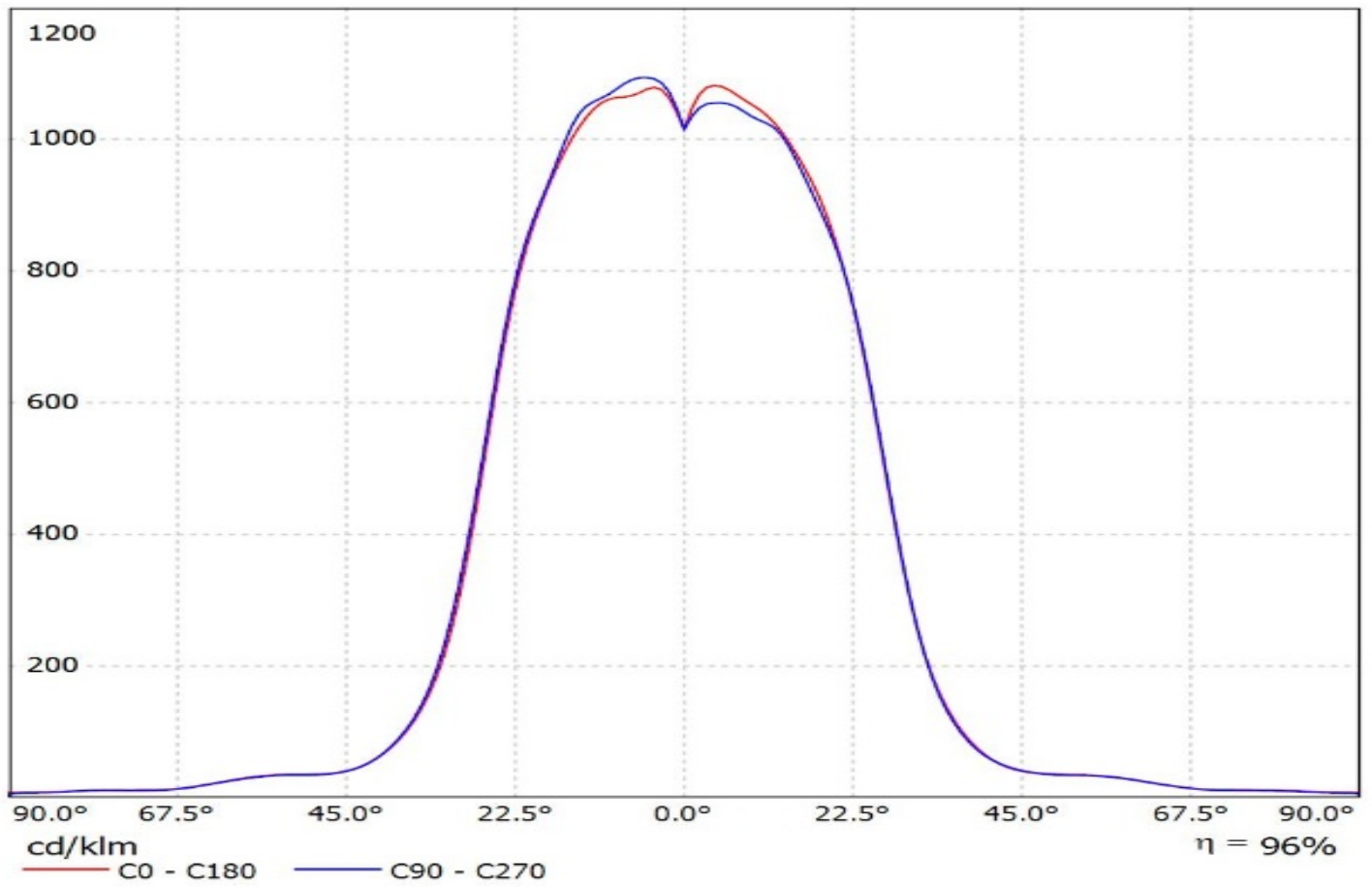


Luminaire: LEDiL Oy C12361_HB-2X2-W_(WICOP2_Z8Y19)

Lamps: 1 x SEOUL_WICOP2_Z8Y19_450.124lm@250mA_P=2.8579W_I=0.250A

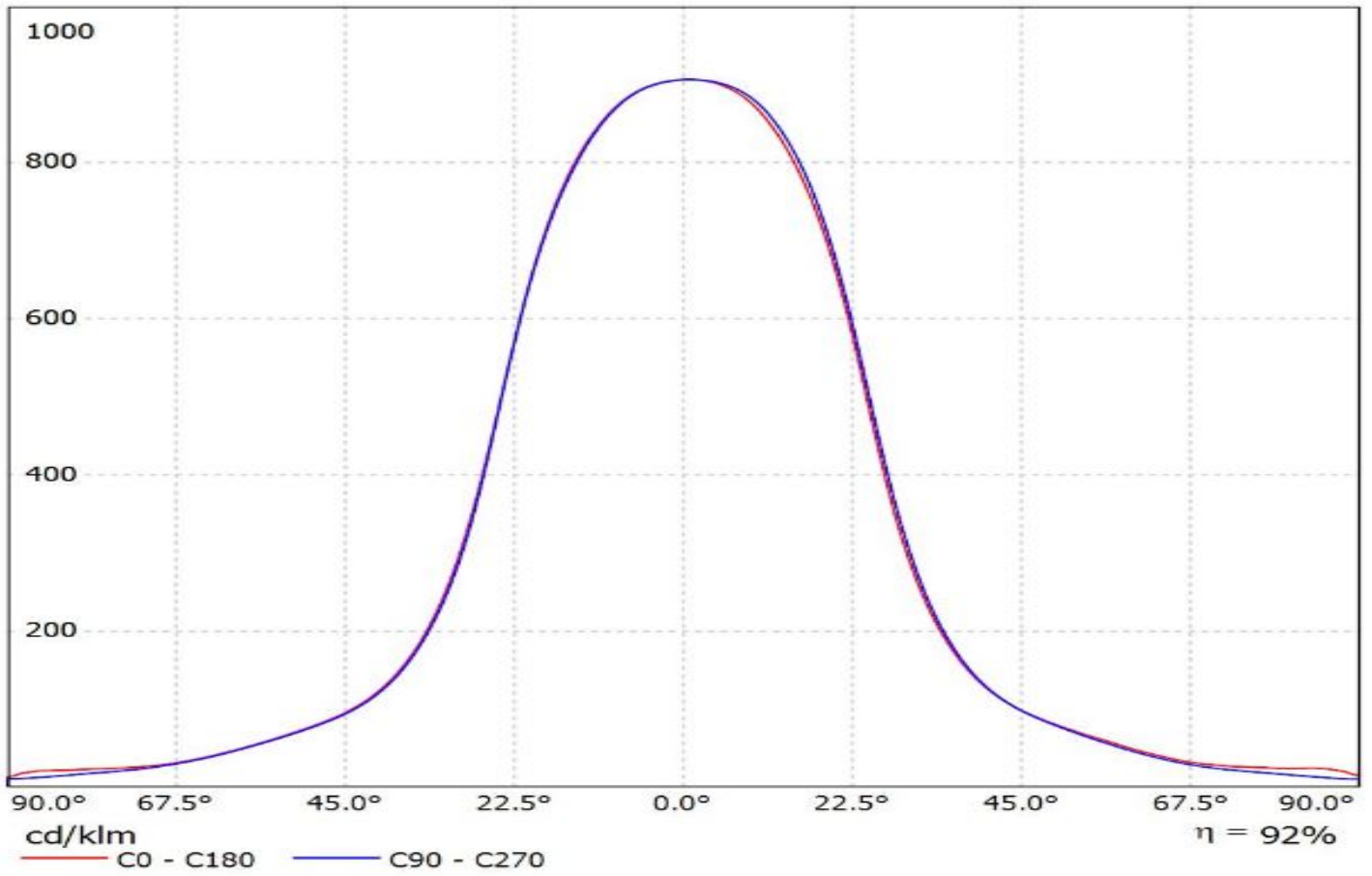


Luminaire: Ledil Oy C12361_HB-2X2-W_(Z5M2)_SIMULATED
Lamps: 1 x Seoul Z5M2 (SZ5-M2-W0-00)

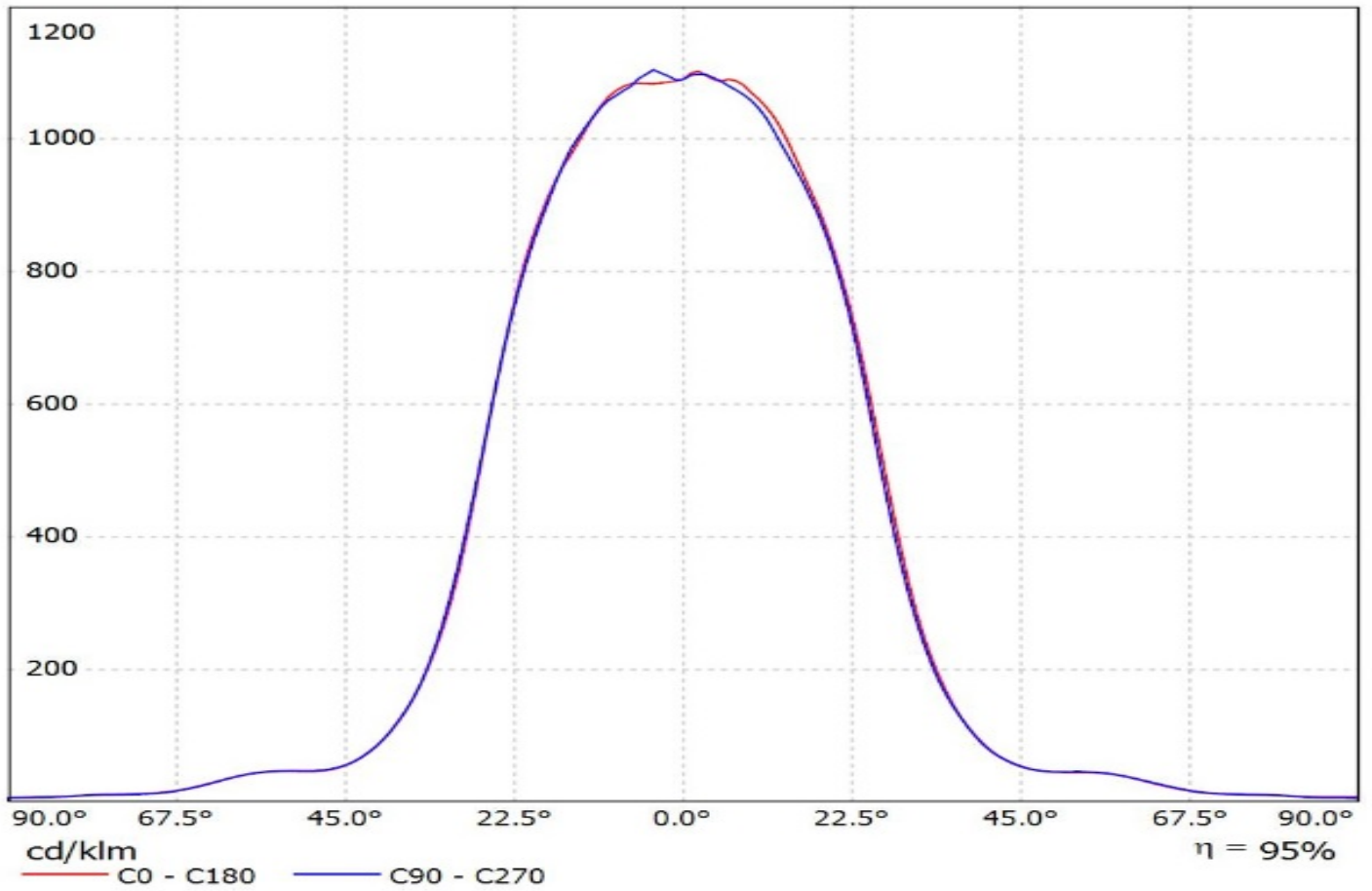


Luminaire: Ledil C12361_HB-2X2-W_(Z8Y22plus)

Lamps: 1 x Seoul_Z8Y22plus_(W6E2G)_513.996lm@250mA_P=2.754W_I=0.250A



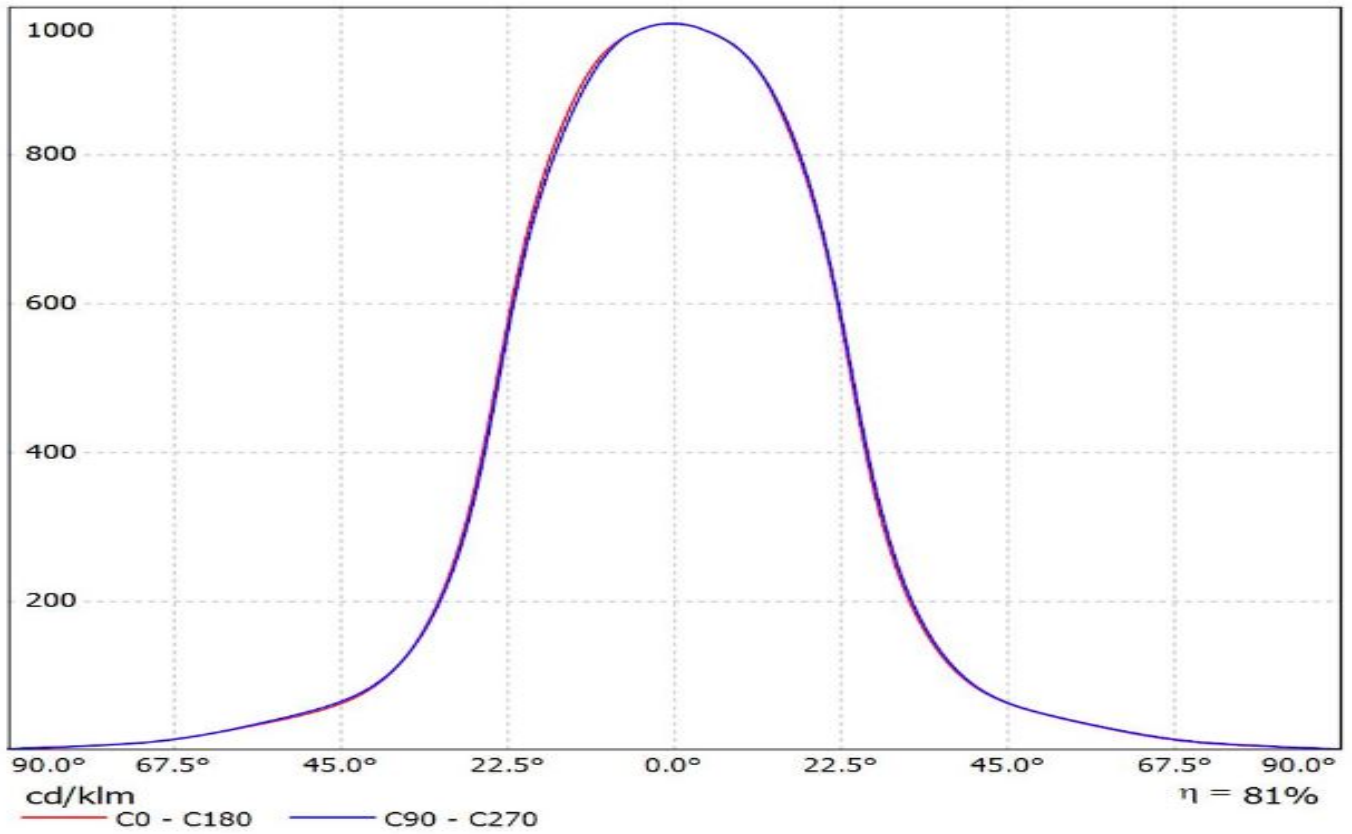
Luminaire: Ledil Oy C12361_HB-2X2-W_(Acrich_MJT_4040)_SIMULATED
Lamps: 1 x Seoul Acrich MJT 4040



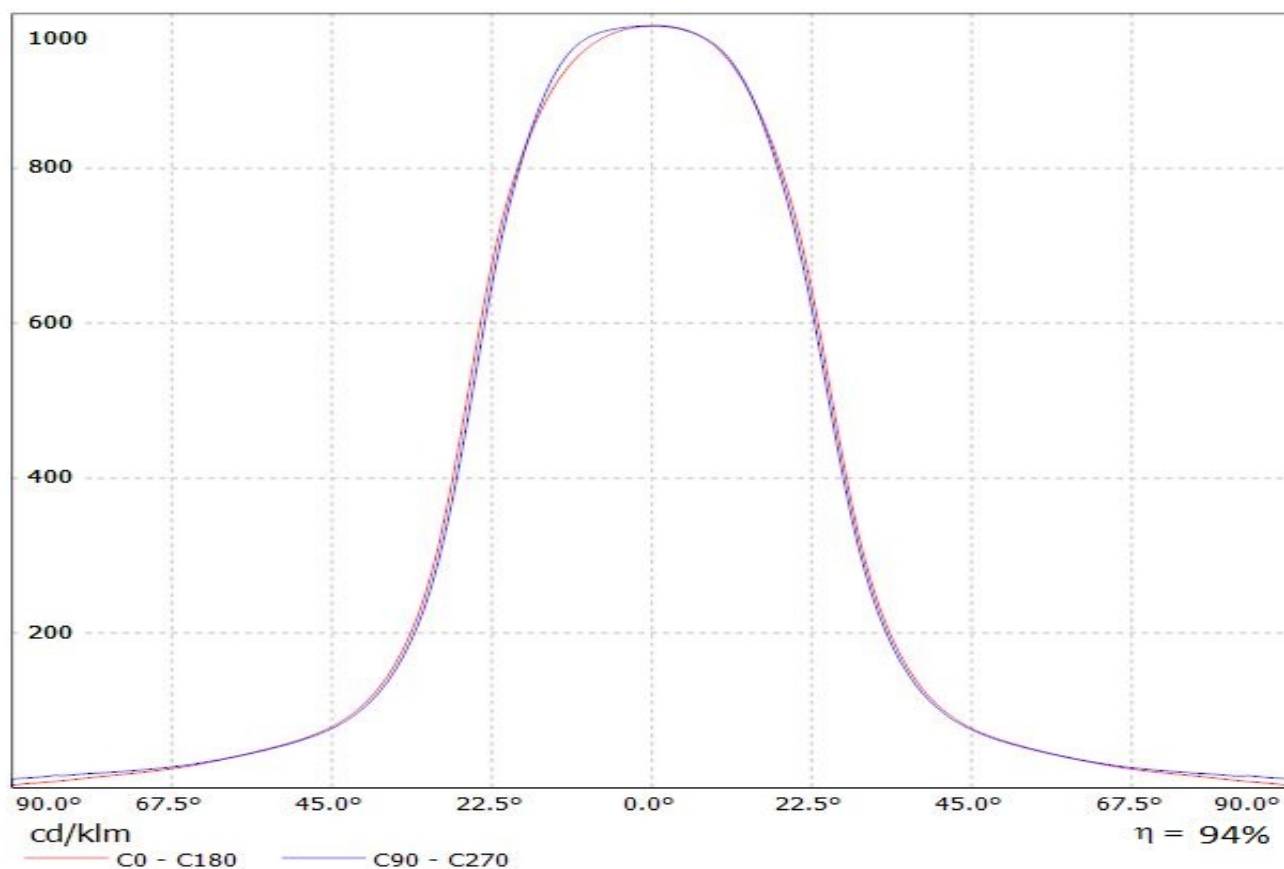
Ledil C12361_HB-2X2-W_(TL1L4) / LDC (Linear)

Luminaire: Ledil C12361_HB-2X2-W_(TL1L4)

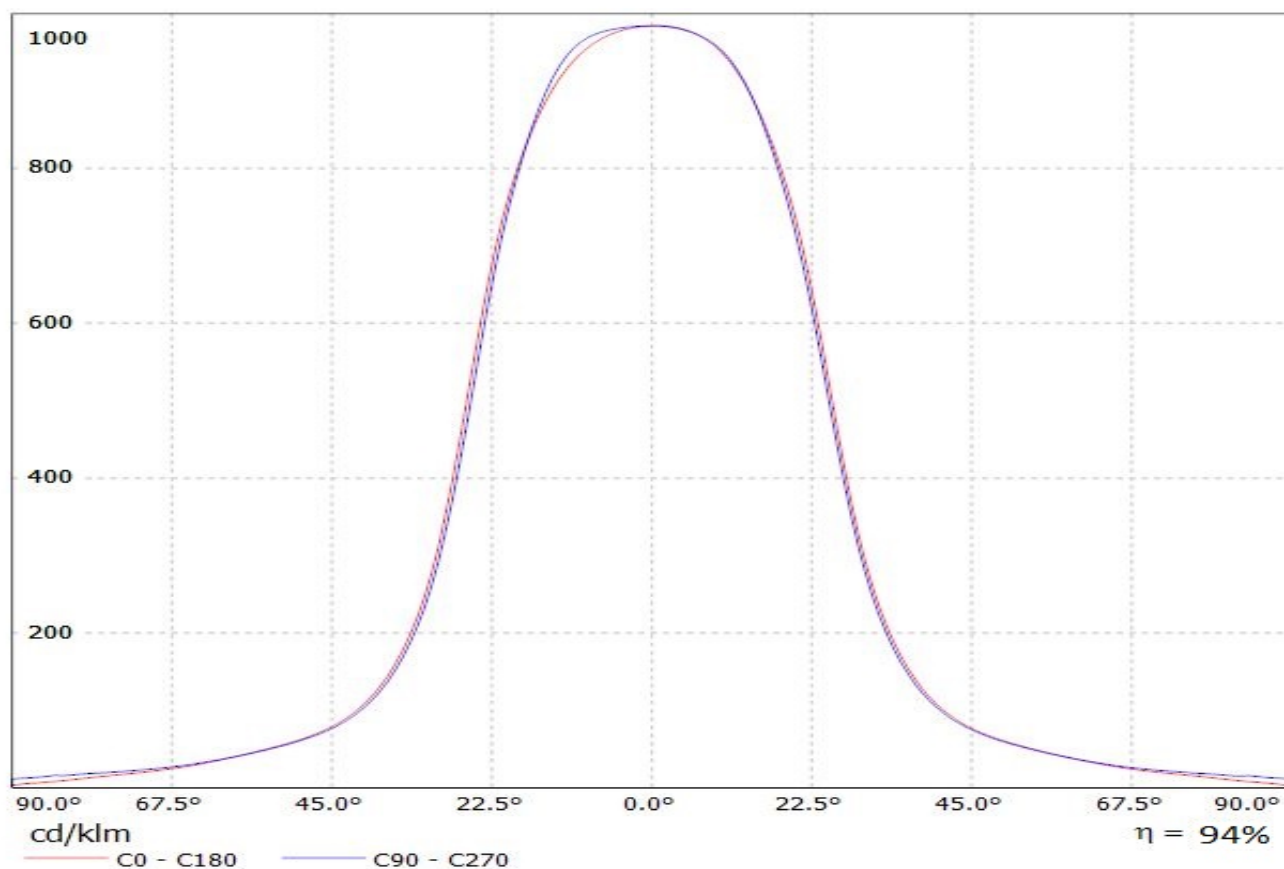
Lamps: 1 x Toshiba_TL1L4_2x2_(TL1L4-DW0)_472.639lm@250mA_CCT=6500K_P=2.9W_I=0.25A



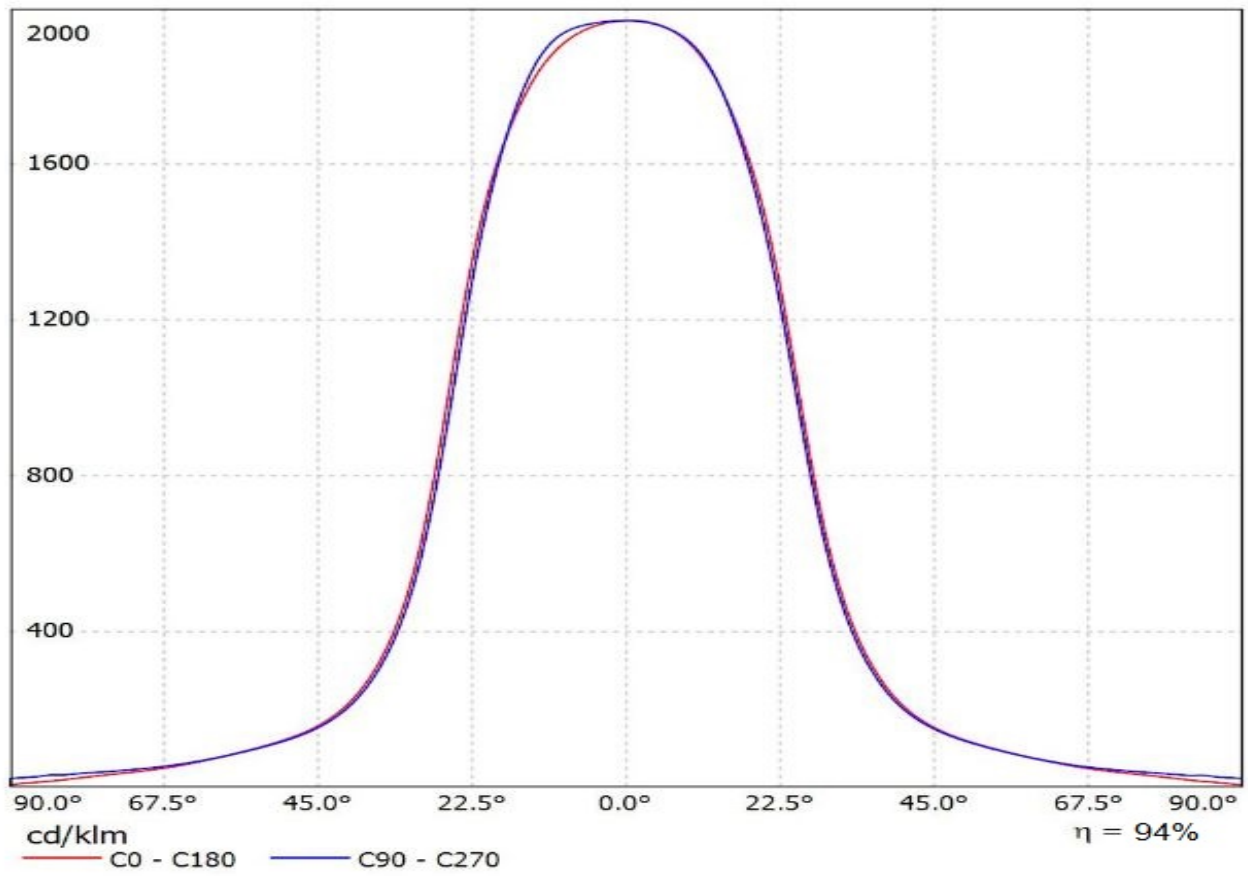
Luminaire: LEDiL Oy C12361_HB-2X2-W_(Tridonic_Module_RLE_G1)
Lamps: 1 x Tridonic_Module_RLE_G1_4576.03lm@700mA_P=32.0681W_I=0.700A



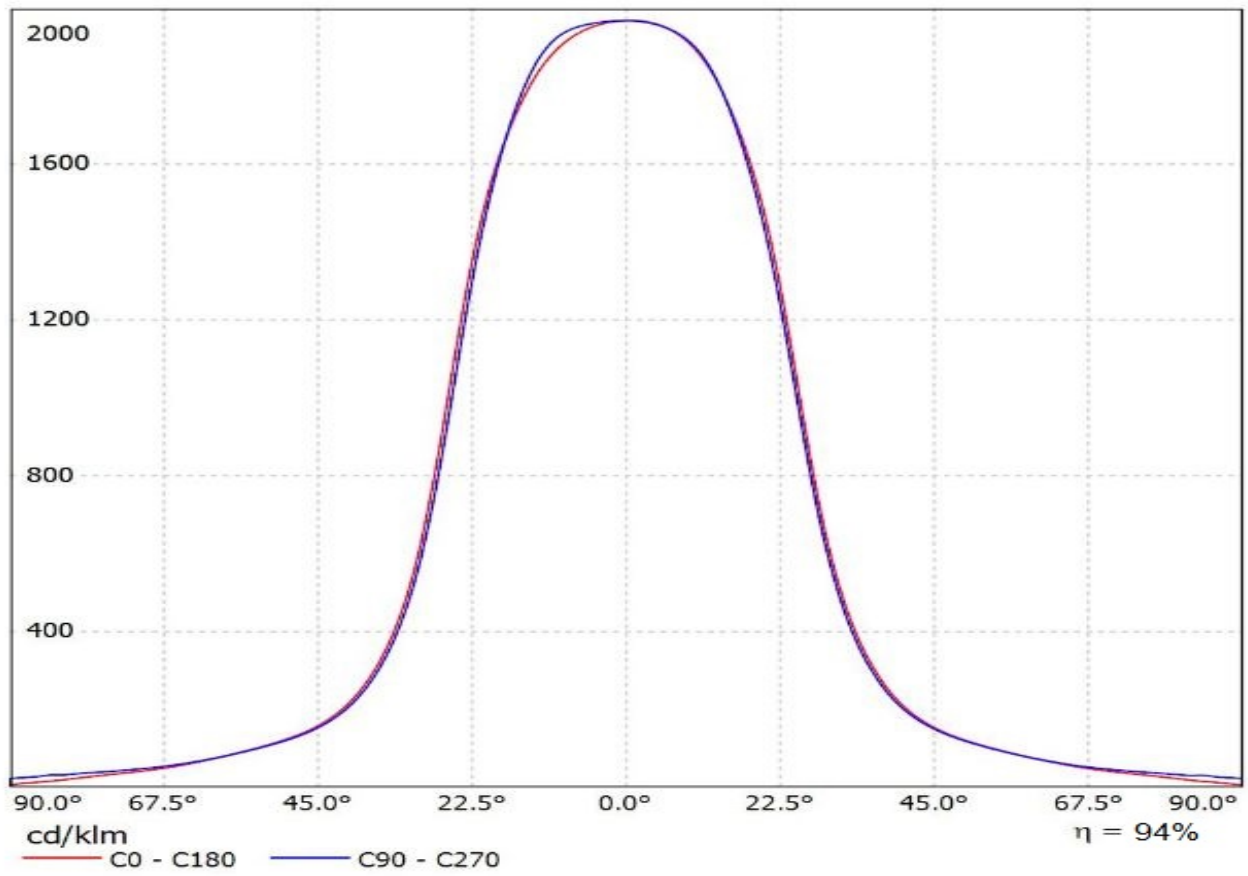
Luminaire: LEDiL Oy C12361_HB-2X2-W_(Tridonic_Module_RLE_G1)
Lamps: 1 x Tridonic_Module_RLE_G1_4576.03lm@700mA_P=32.0681W_I=0.700A



Luminaire: LEDiL Oy C12361_HB-2X2-W_(Tridonic_Module_RLE_G1)
Lamps: 1 x Tridonic_Module_RLE_G1_2288lm@700mA_P=16W_I=0.700A

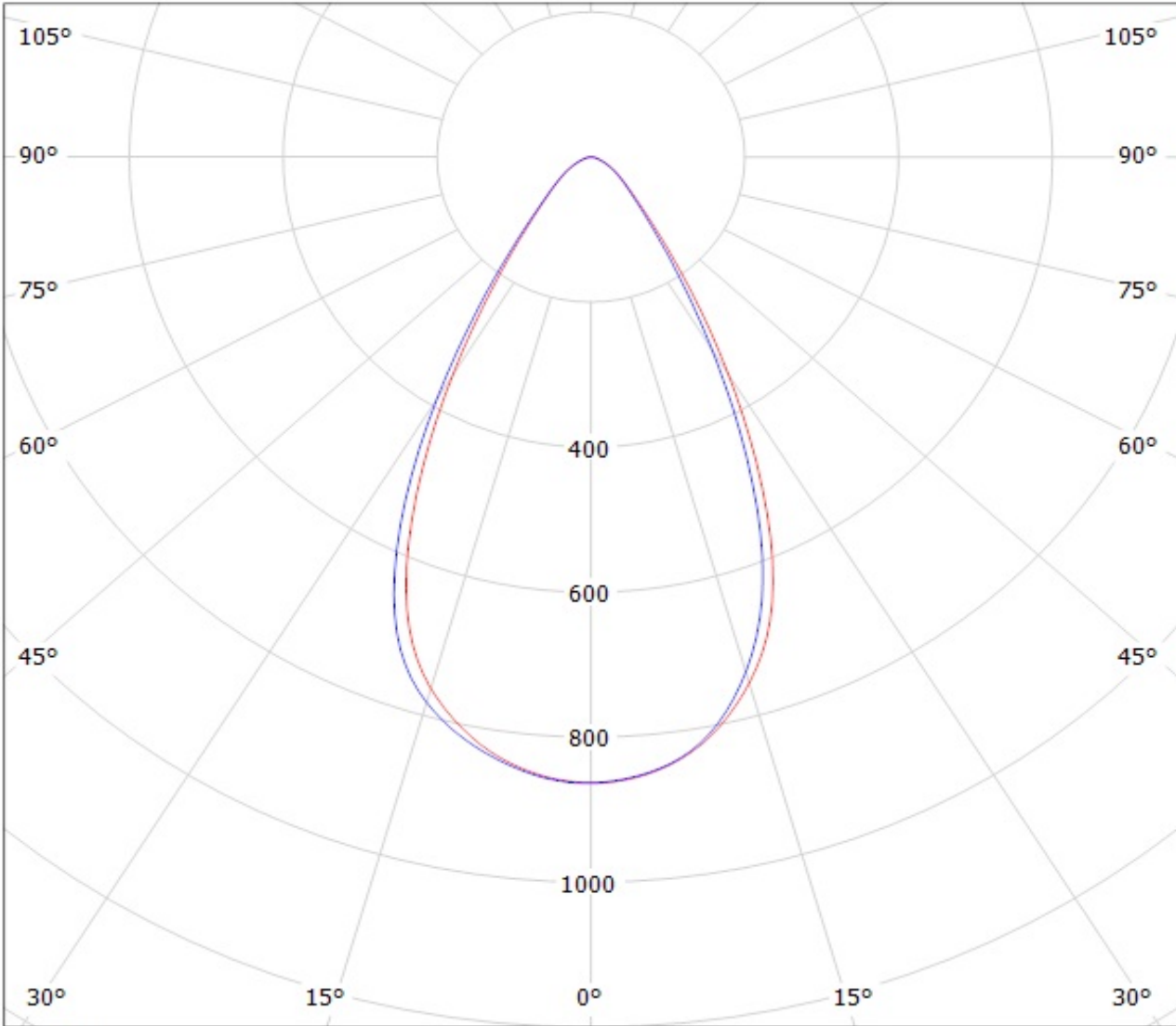


Luminaire: LEDiL Oy C12361_HB-2X2-W_(Tridonic_Module_RLE_G1)
Lamps: 1 x Tridonic_Module_RLE_G1_2288lm@700mA_P=16W_I=0.700A



Luminaire: LEDIL OY C12361_HB-2X2 (XM-L) Efficiency=89%

Lamps: 1 x Cree XM-L (395lm @ 250mA)

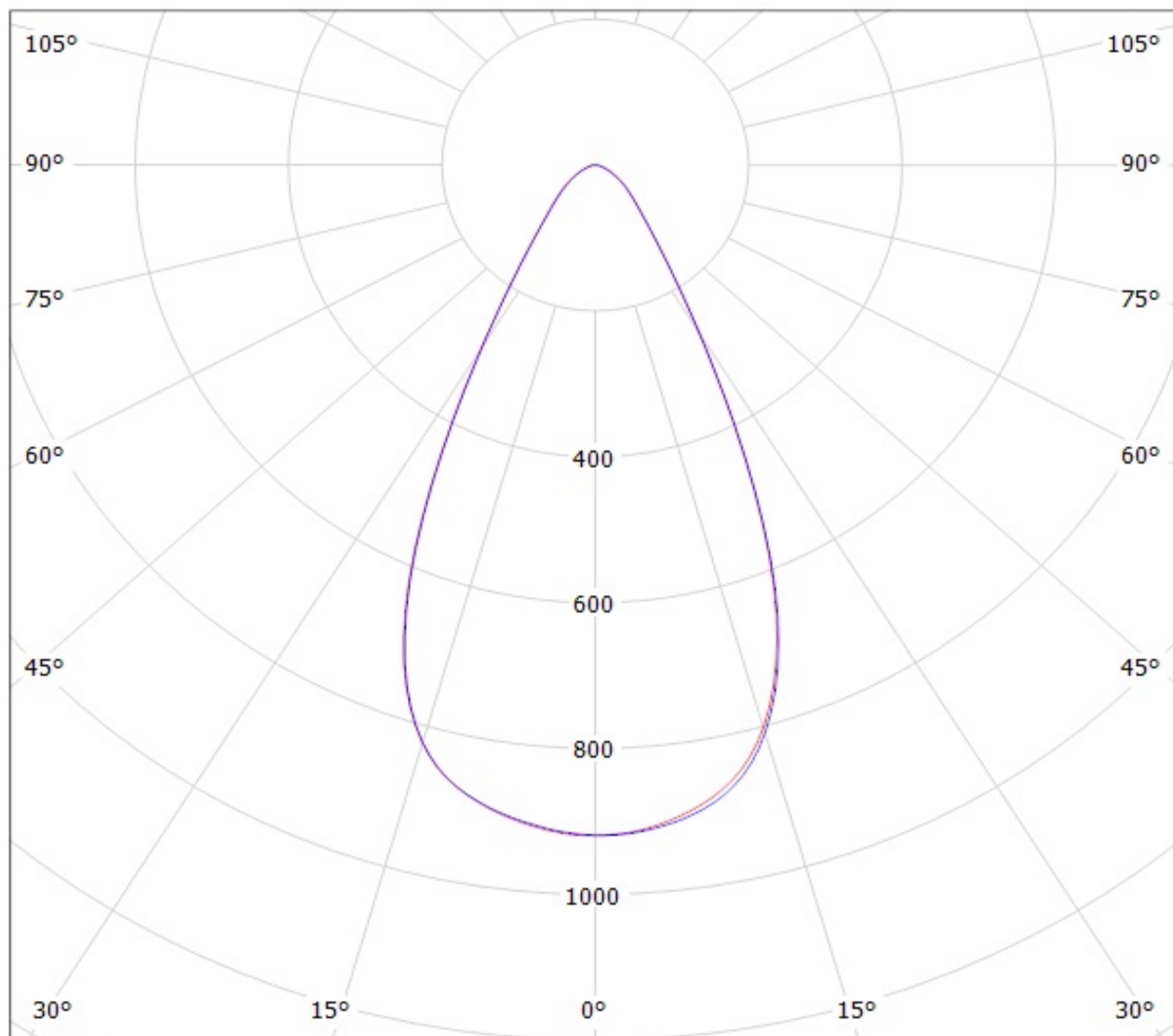


cd/klm

— C0 - C180

— C90 - C270

Luminaire: LEDIL OY C12361_HB-2X2 (XP-G) Efficiency=88%
Lamps: 1 x Cree XP-G (257lm @ 250mA)

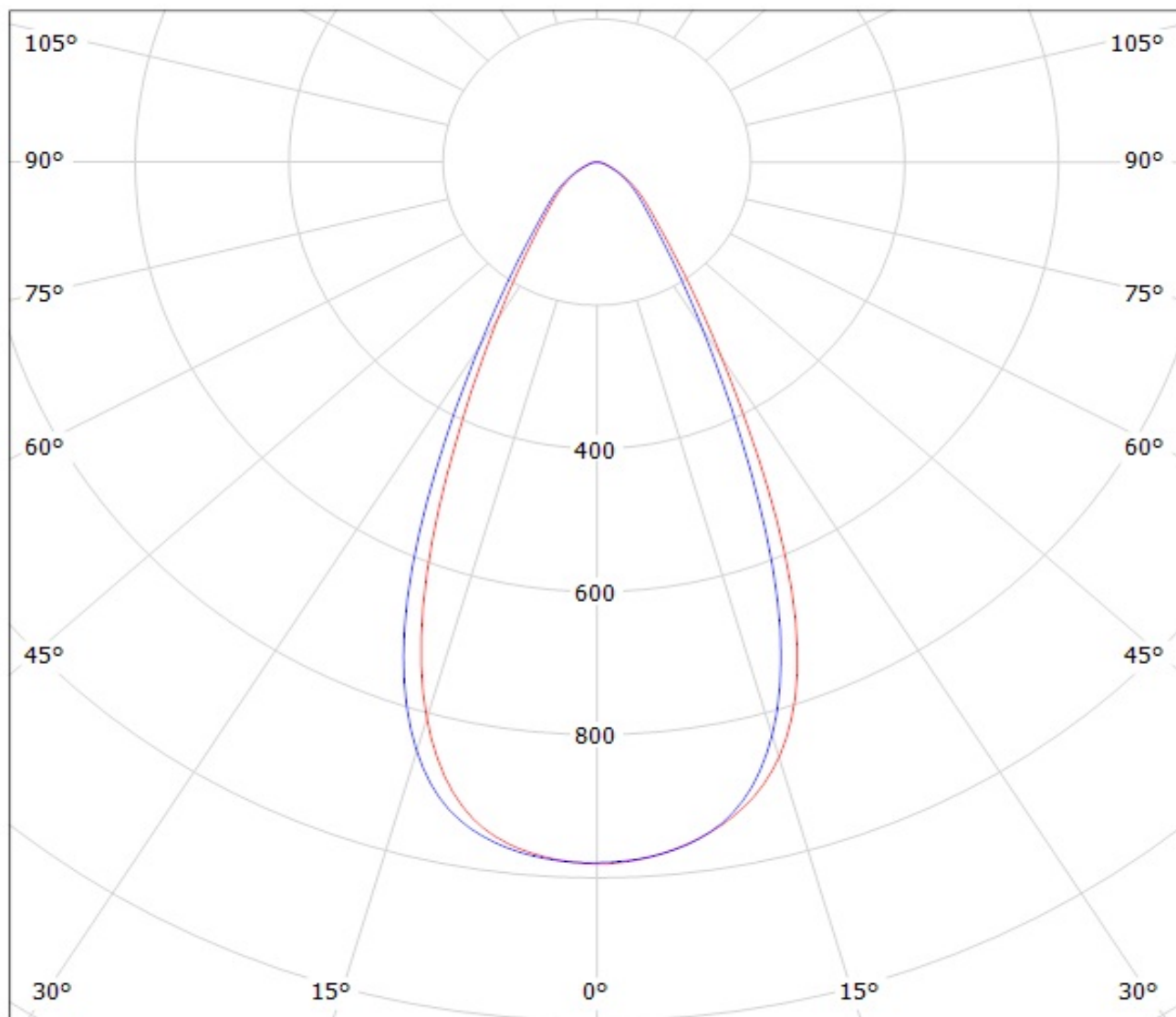


cd/klm

— C0 - C180

— C90 - C270

Luminaire: LEDIL OY C12361_HB-2X2 (XT-E AWT) Efficiency=89%
Lamps: 1 x Cree XT-E AWT (390lm@250mA)

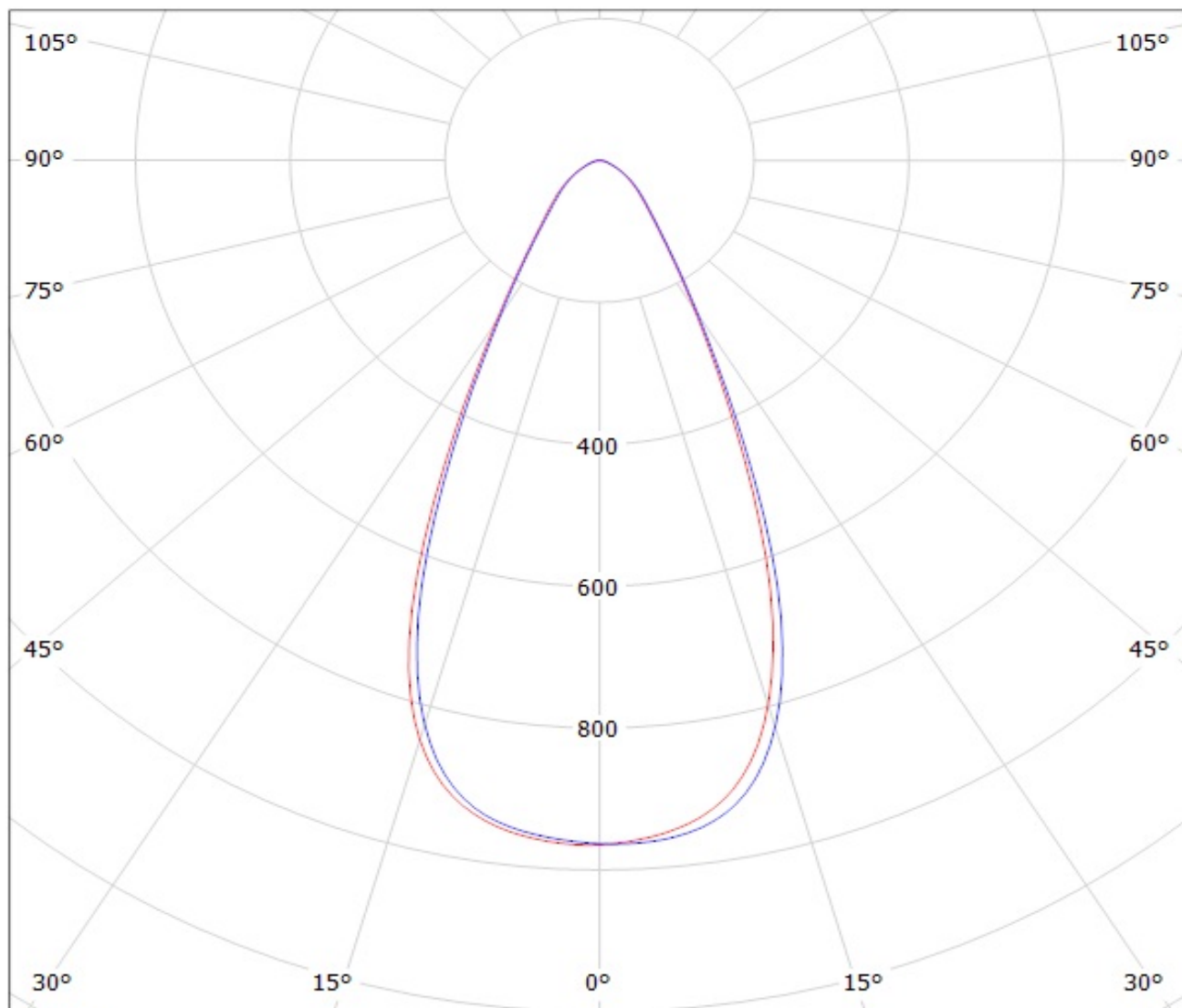


cd/klm

— C0 - C180

— C90 - C270

Luminaire: LEDIL OY C12361_HB-2X2 (XB-D) Efficiency=86%
Lamps: 1 x Cree XB-DE (371lm @ 250mA)

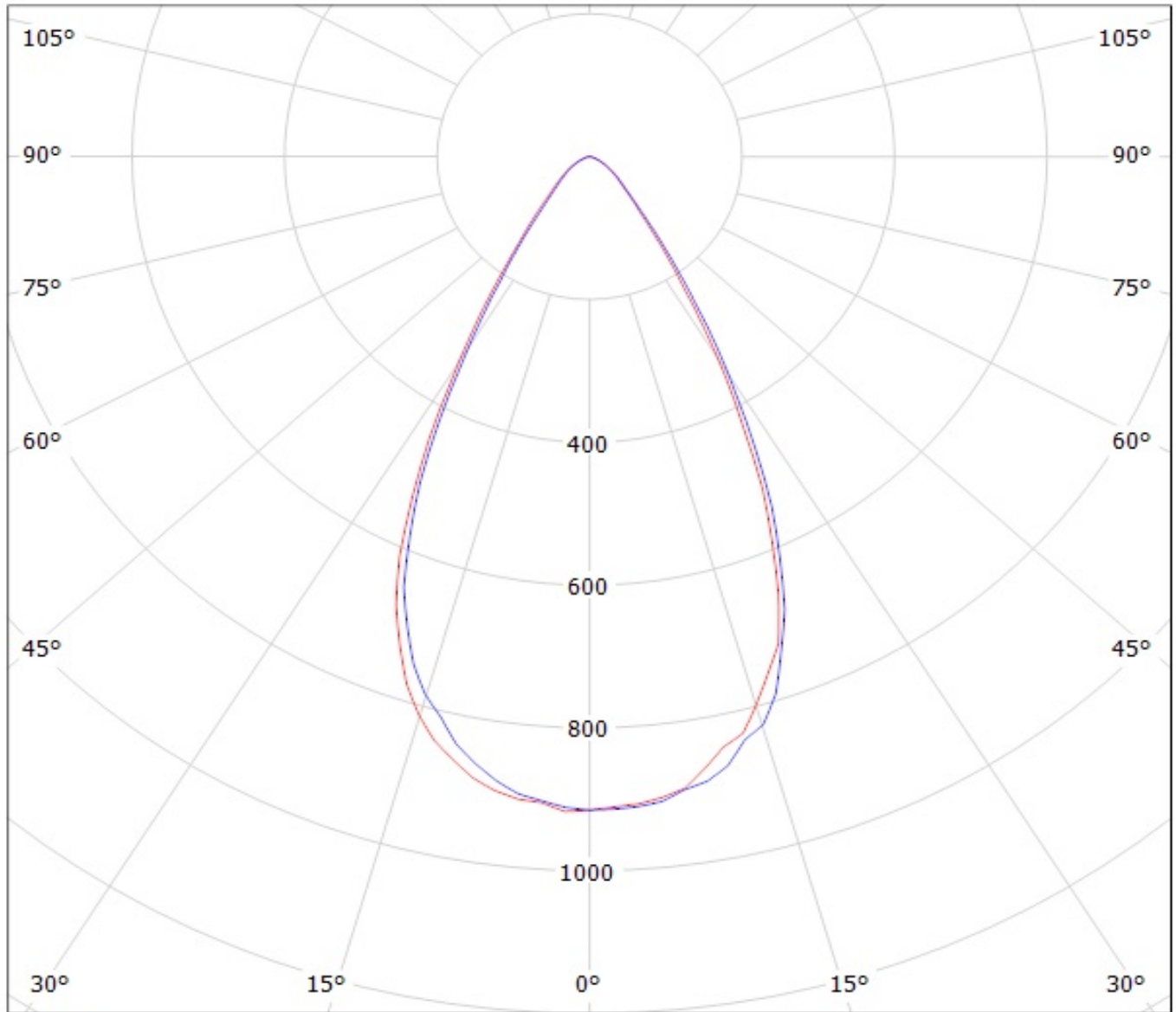


cd/klm

— C0 - C180

— C90 - C270

Luminaire: Ledil Oy C12361_HB-2X2-W_(XM-L2) Efficiency=87%
Lamps: 1 x Cree XM-L2 (CXMLBWT-0-7B4-T30-0L-001) 360lm @ 250mA CCT=3220K P=2.8W I=250mA

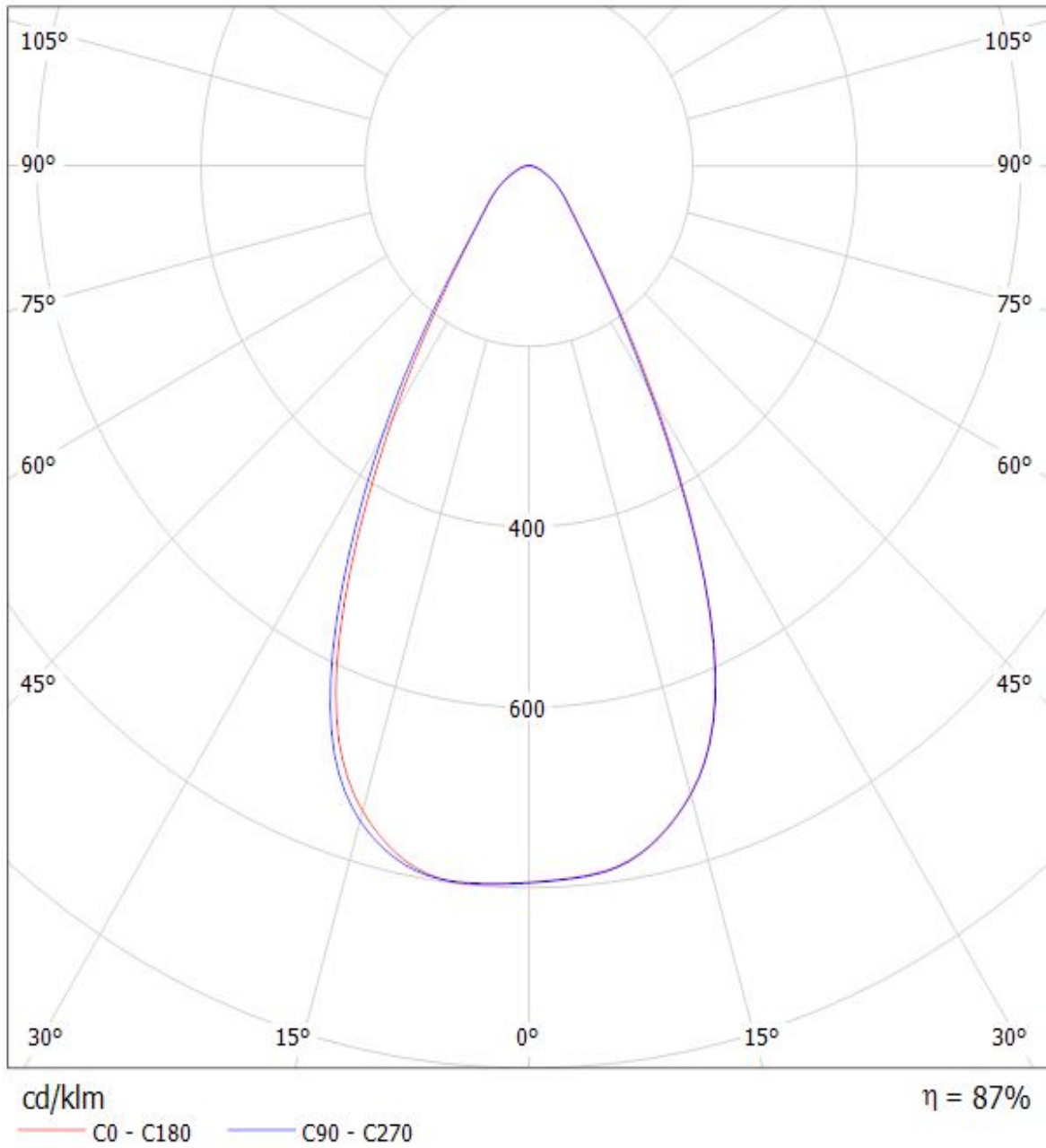


cd/klm

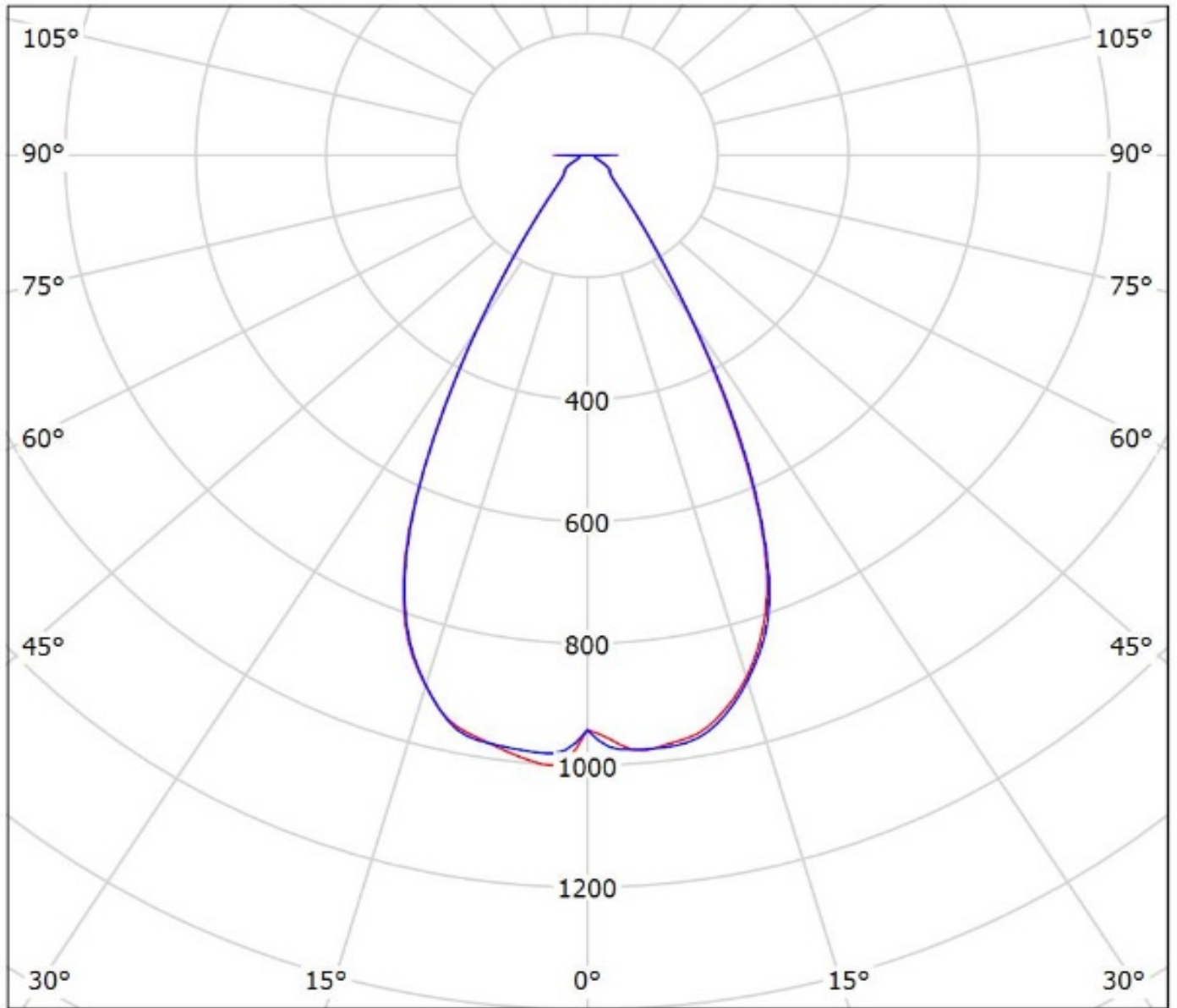
— C0 - C180 — C90 - C270

Luminaire: LEDiL Oy C12361_HB-2X2-W_(XP-L) Eff.87.0%

Lamps: 1 x CREE_XP-L_2x2_(XPLAWT-0-1B0-V40-00-0001)_504.373lm@250mA_CCT=7600K_P=2.79963W_I=249.9mA



Luminaire: Ledil Oy C12361_HB-2X2-W_(XP-G3)_SIMULATED
Lamps: 1 x Cree XP-G3

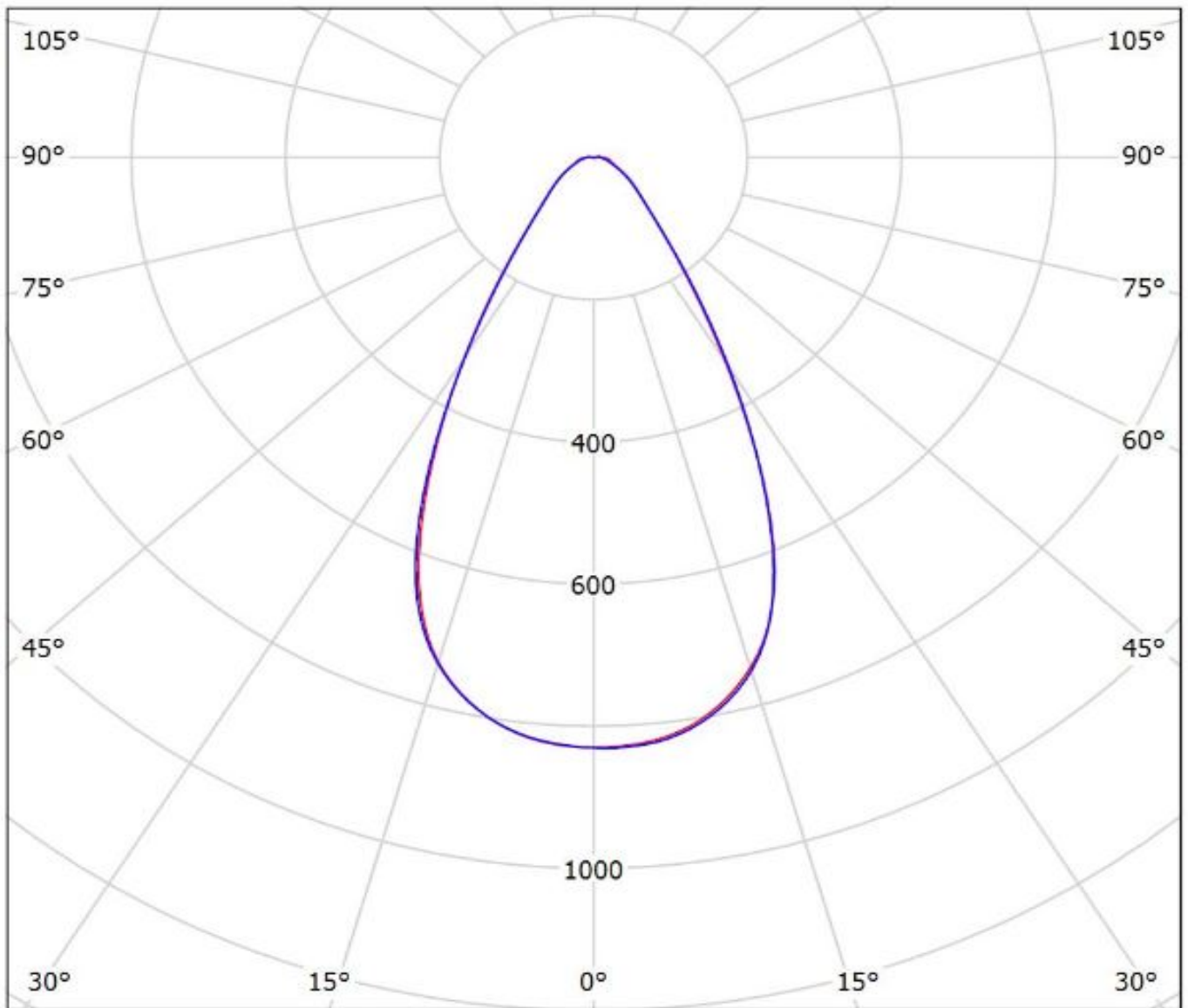


cd/klm
— C0 - C180 — C90 - C270

$\eta = 95\%$

Luminaire: Ledil C12361_HB-2X2-W_(XP-L2)

Lamps: 1 x Cree_XP-L2_2x2_(XPLBWT-00-0000-000BV50E3)550.93lm@250mA_P=2.7815W_I=0.25A



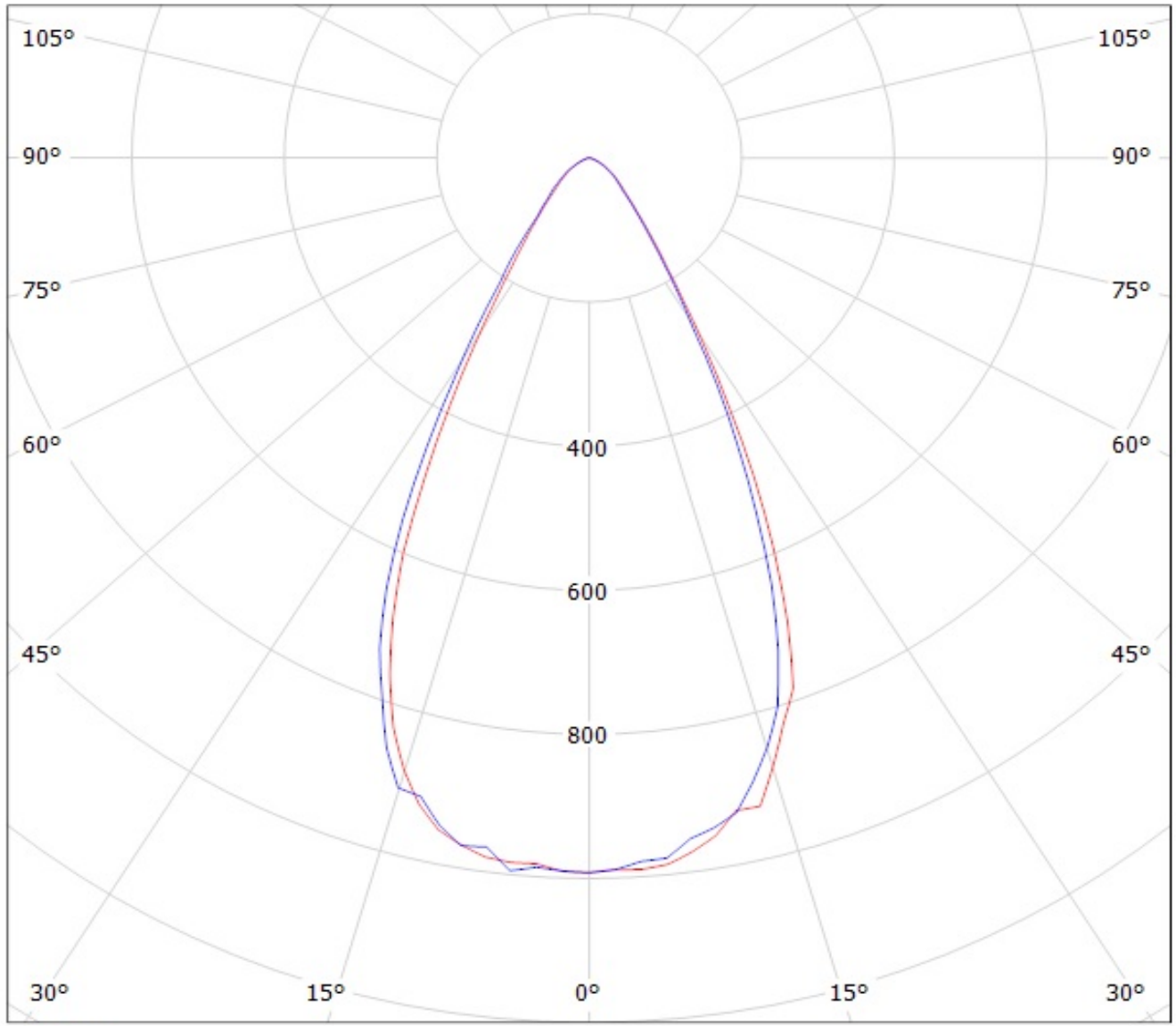
cd/klm

— C0 - C180

— C90 - C270

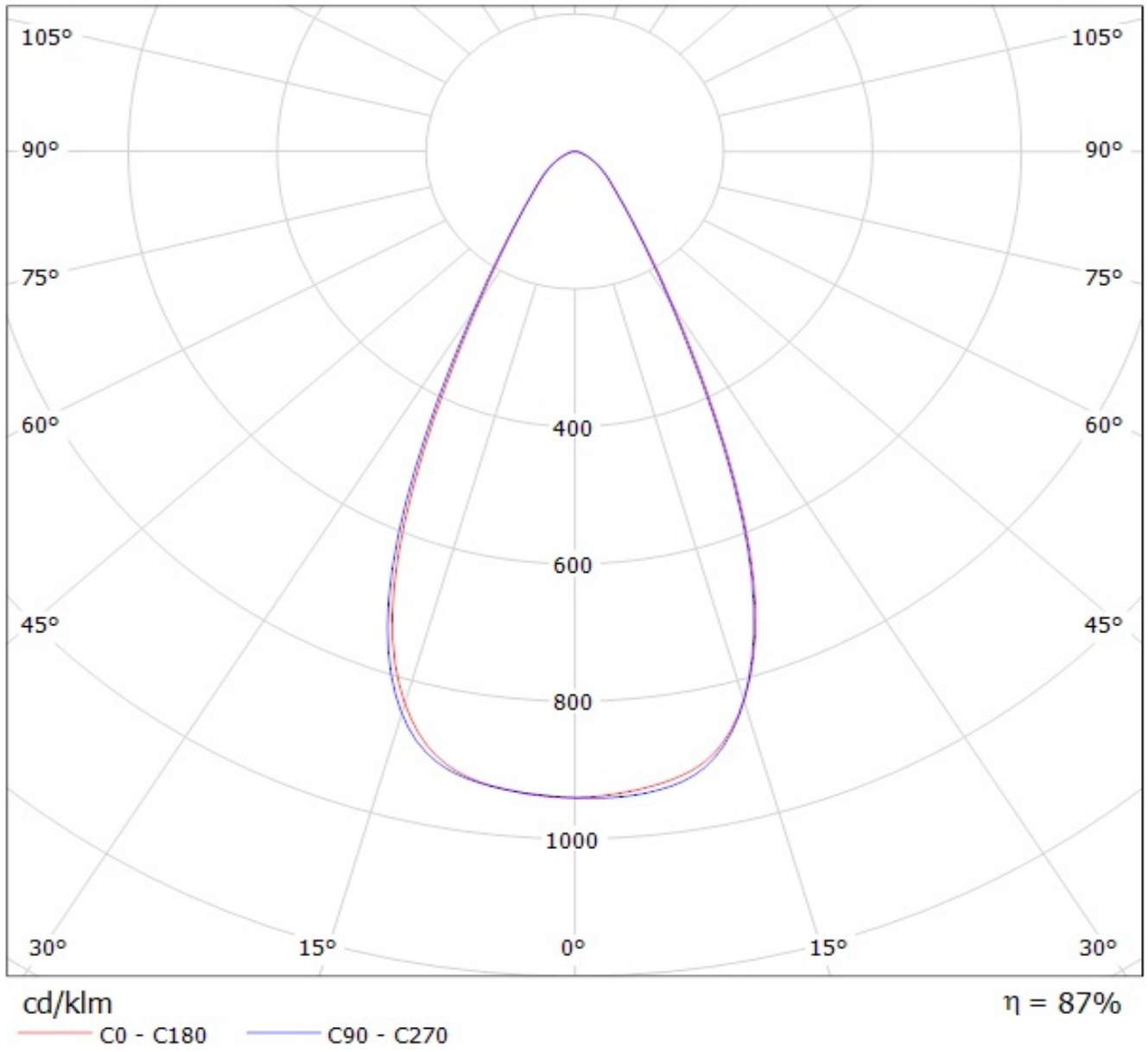
η = 92%

Luminaire: Ledil Oy C12361_HB-2X2-W_(3535_Ceramic_gen2) Efficiency=86%
Lamps: 1 x LG 3535 Ceramic gen2 (PKG5700K) 461lm @ 250mA CCT=6600K P=2.9W I=250mA

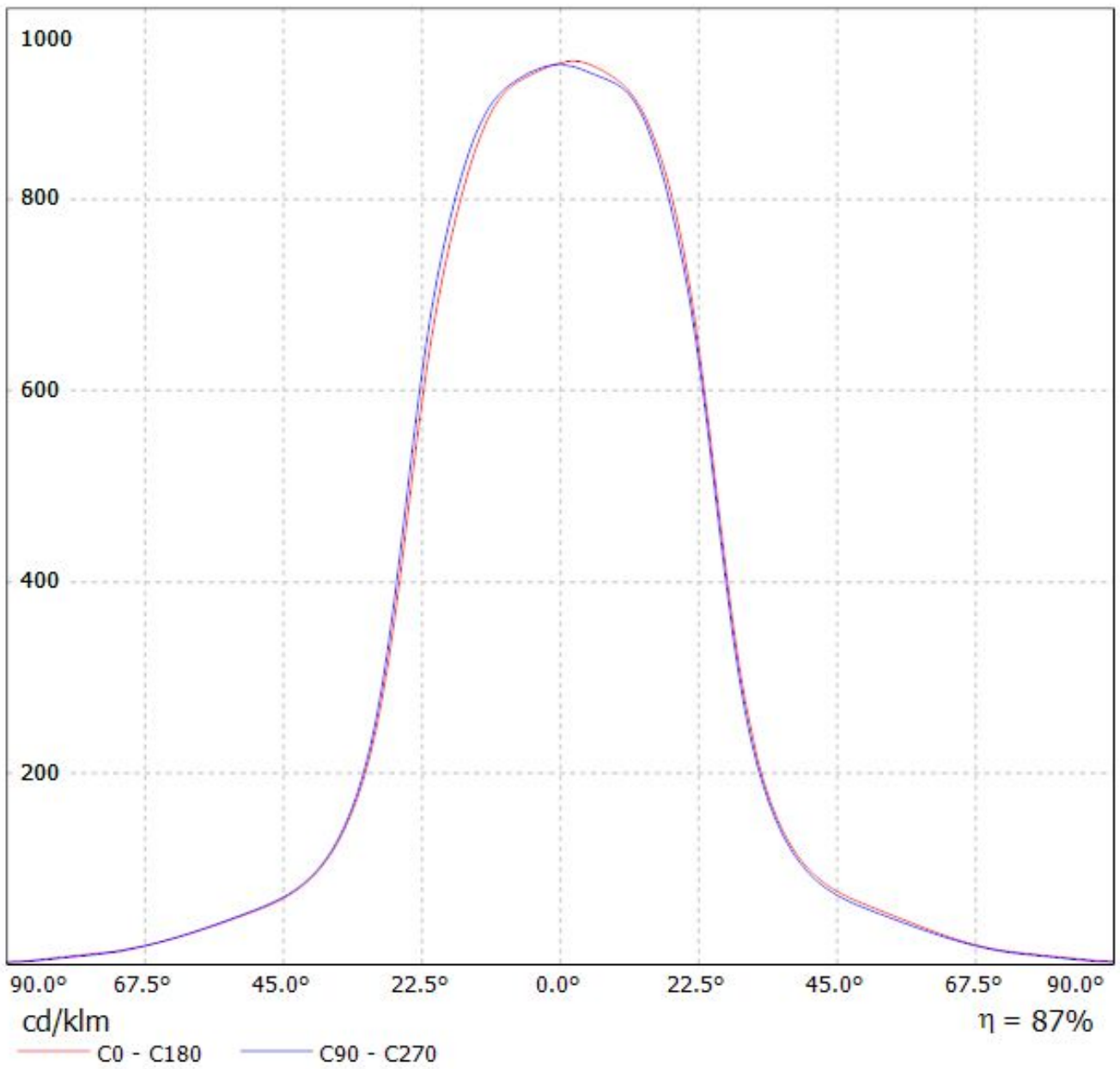


cd/klm
— C0 - C180 — C90 - C270

Luminaire: LEDIL OY C12361_HB-2X2 (RE-ES) Efficiency=87%
Lamps: 1 x Luxeon Rebel-ES (339lm @ 250mA)

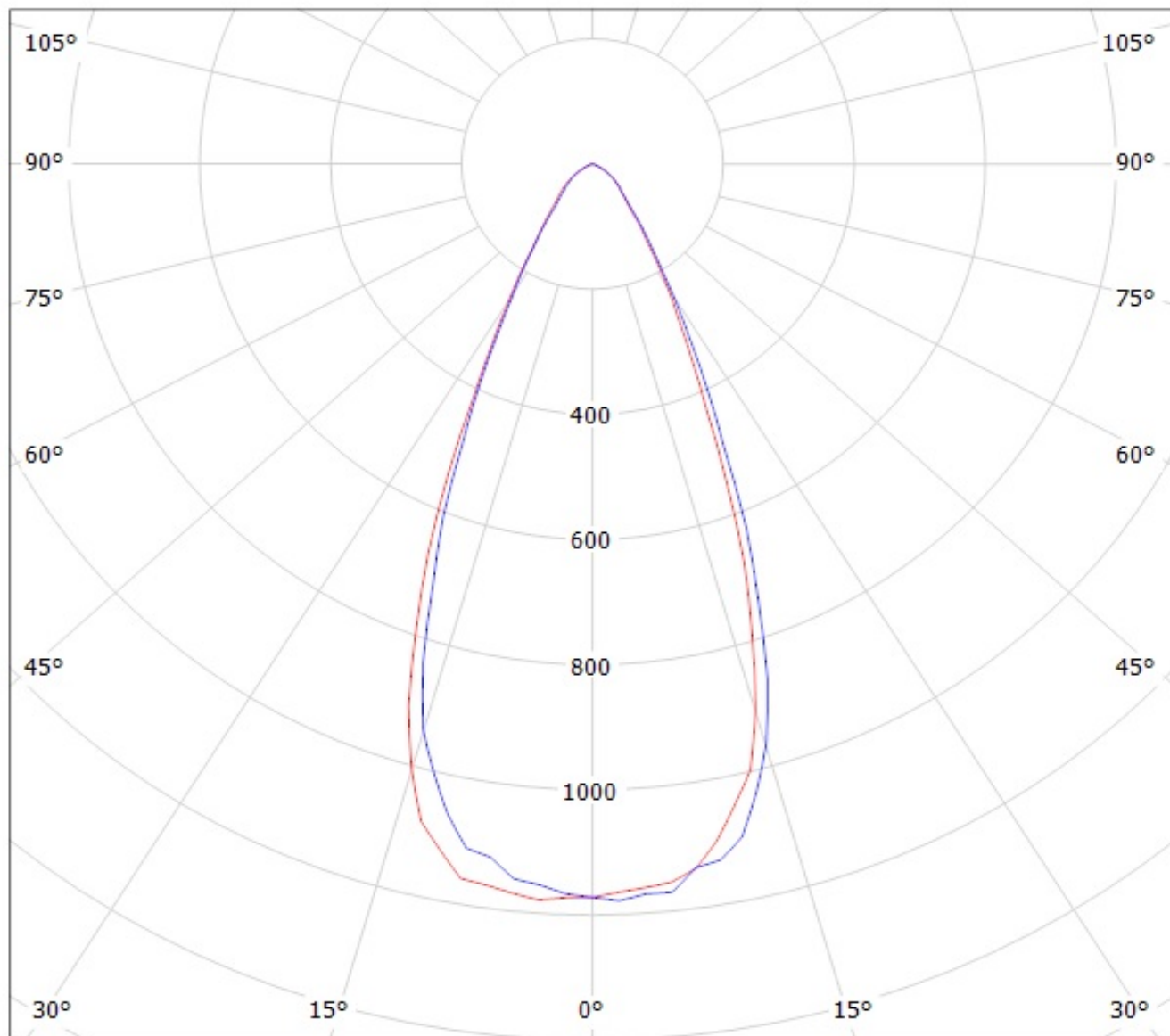


Luminaire: LEDiL Oy C12361_HB-2X2-W_(LUXEON_T)_1 Eff.87.0%
Lamps: 1 x LUXEON_T 2x2 (294lm@250mA)



Luminaire: Ledil Oy C12361_HB-2X2-W_(Luxeon_Z_ES) Efficiency=87%

Lamps: 1 x Luxeon Z ES 2x2 (LXZ2-3090) 209lm @ 250mA CCT=3000K P=2.8W I=250mA



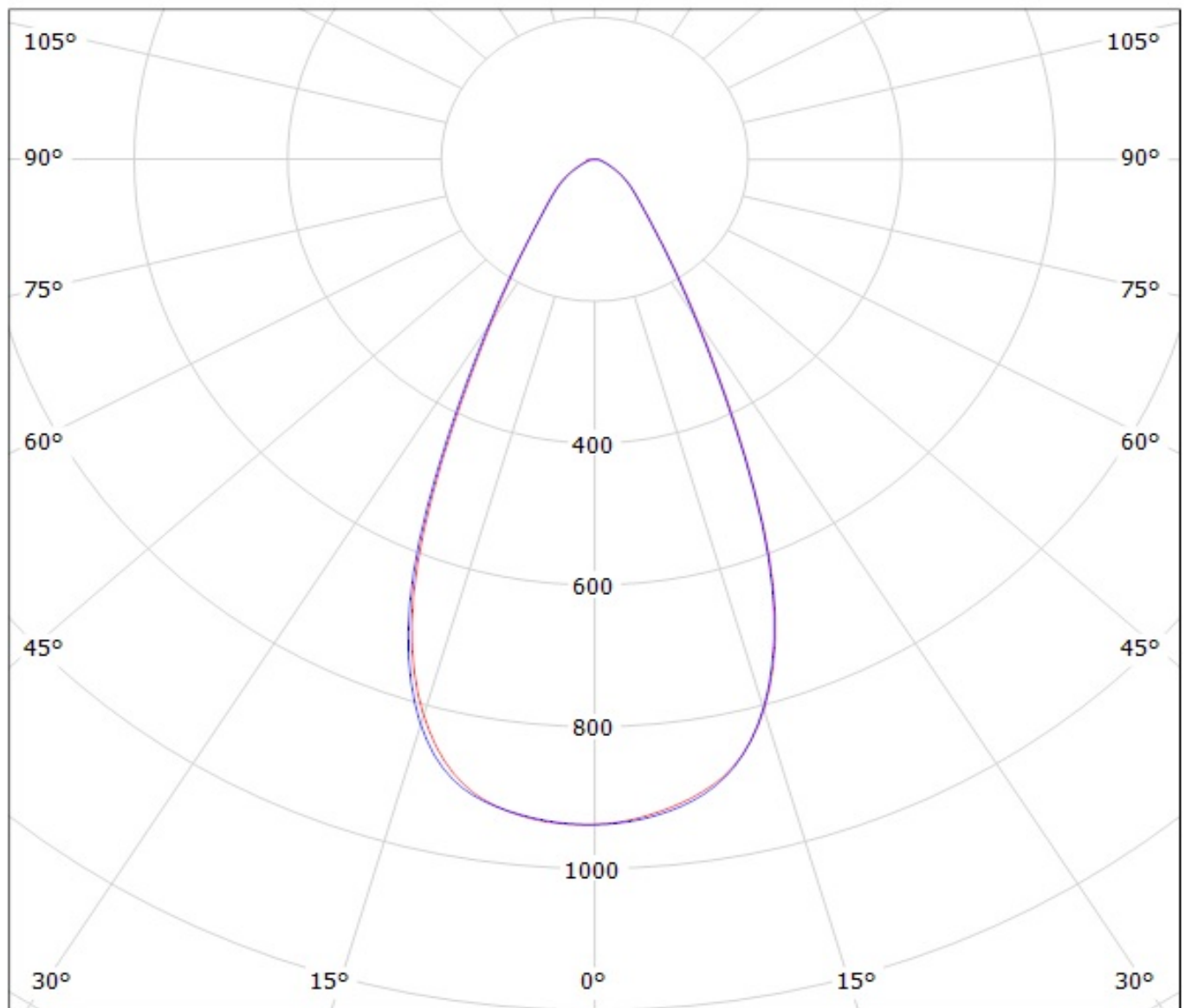
cd/klm

— C0 - C180

— C90 - C270

Luminaire: LEDiL Oy C12361_HB-2X2-W_(LUXEON_Q) Eff.86.3%

Lamps: 1 x LUXEON_Q_2x2_(LHQ-3080)_298.363lm@250mA_P=2.87385W_I=249.9mA



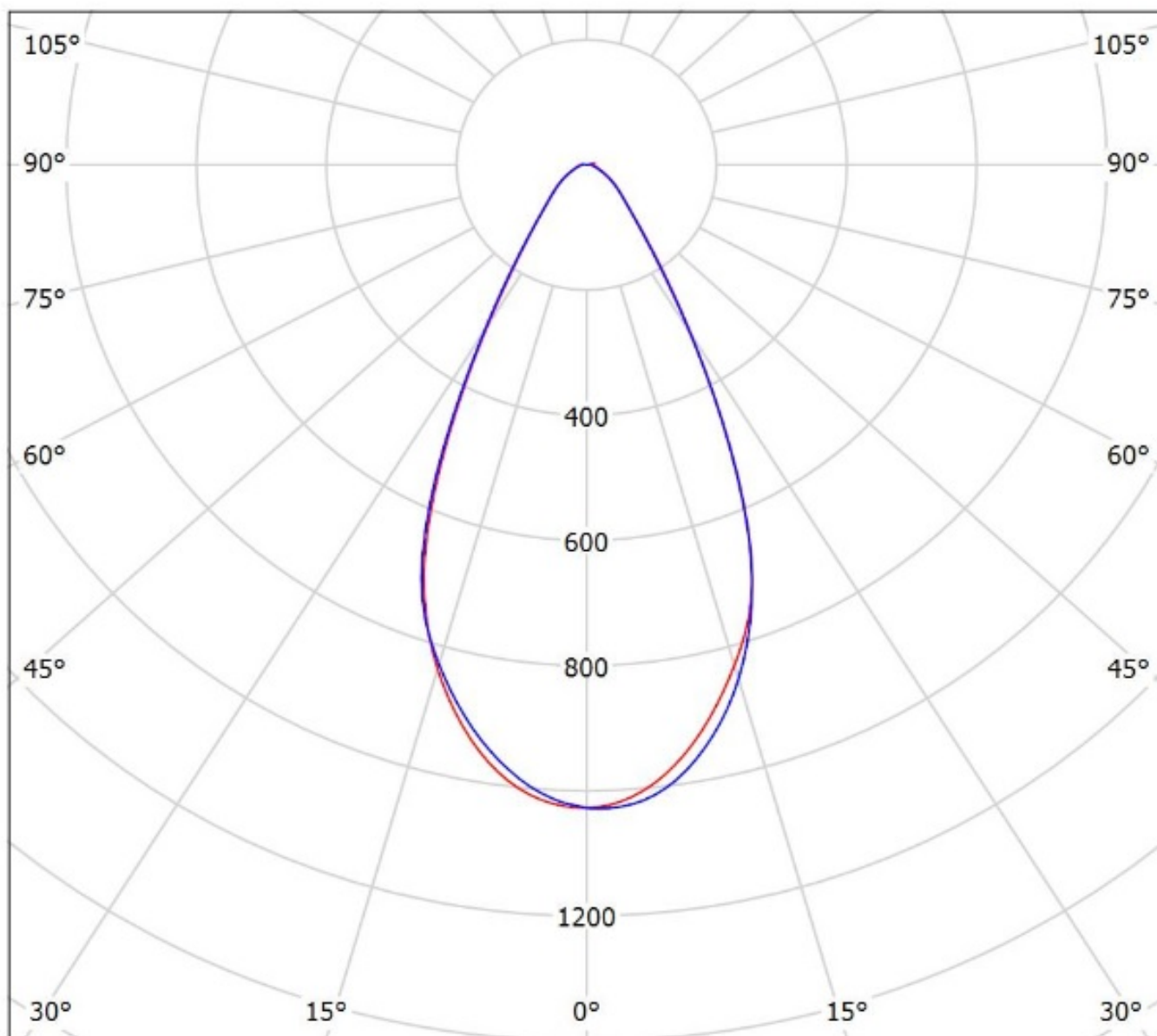
cd/klm

— C0 - C180

— C90 - C270

Luminaire: Ledil C12361_HB-2X2-W_(Luxeon_MZ)

Lamps: 1 x Philips_Lumileds_Luxeon_MZ_(LMZ7-QW57)_(2x2)_427.268lm@250mA_P=2.734W_I=0.2500A

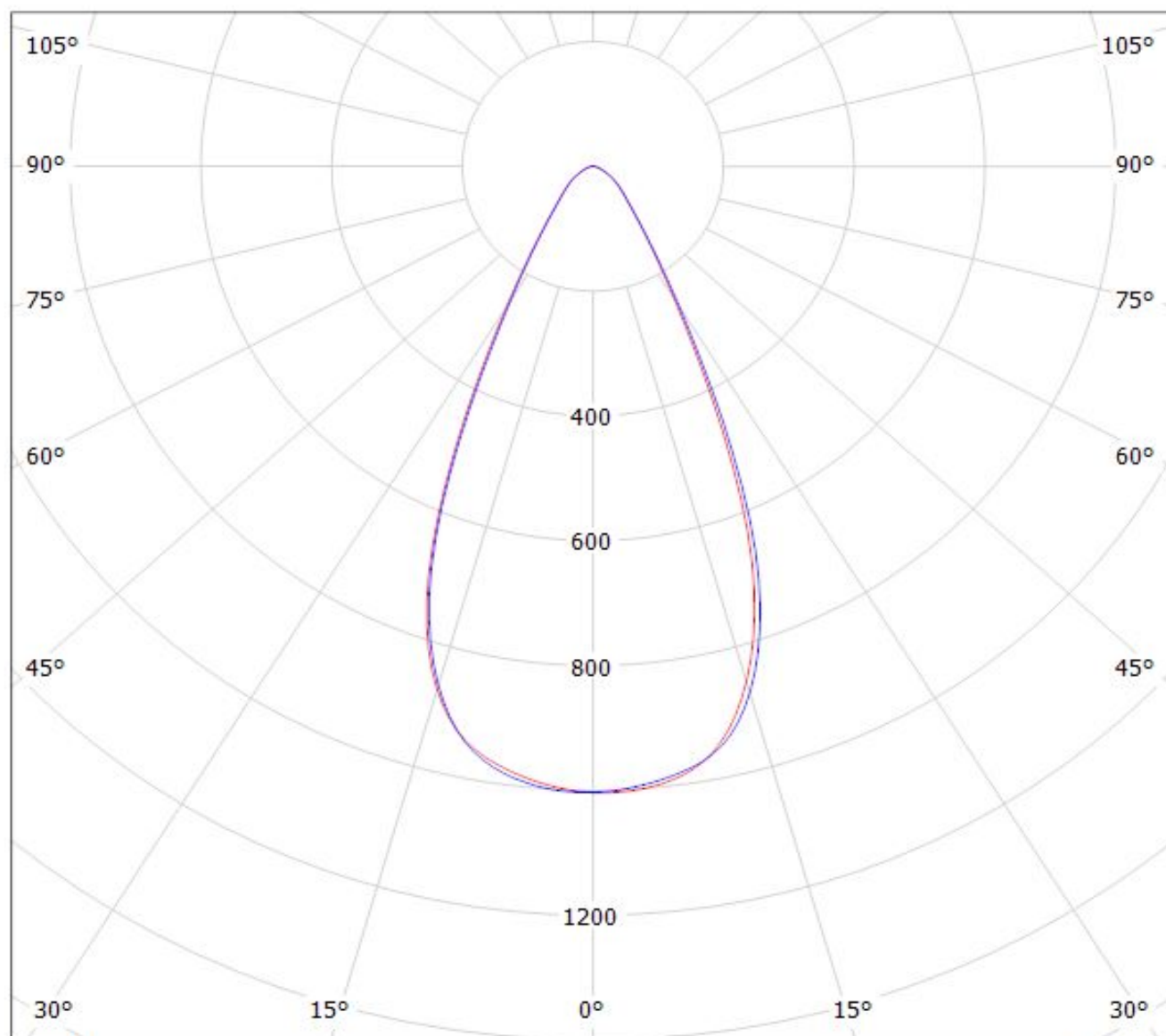


cd/klm

— C0 - C180 — C90 - C270

$\eta = 92\%$

Luminaire: LEDiL Oy C12361_HB-2X2-W_(Luxeon_TX) Eff.87.5%
Lamps: 1 x Luxeon_TX_2x2_320.412lm@250mA_P=2.79013W_I=249.9mA



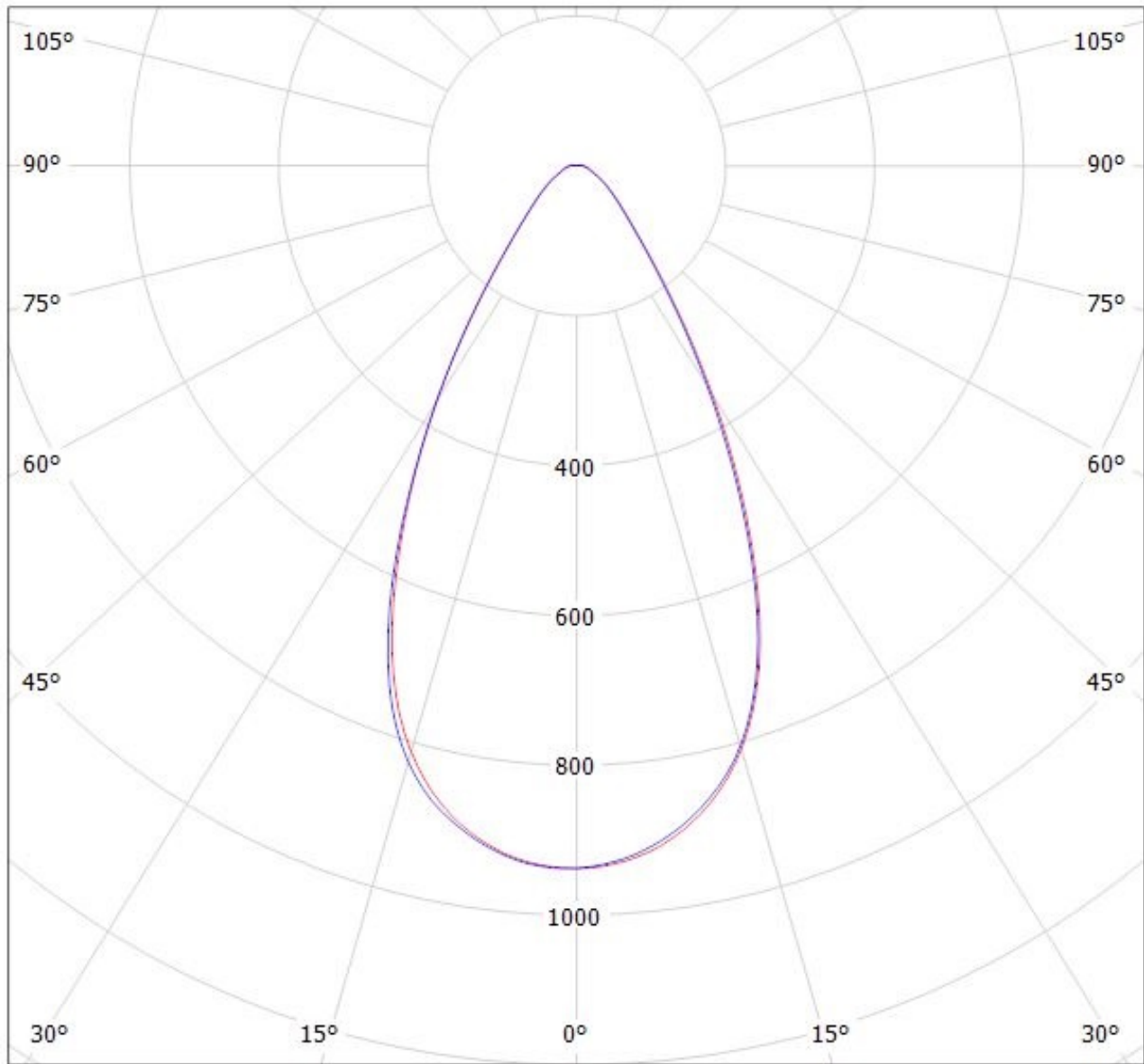
cd/klm

— C0 - C180 — C90 - C270

$\eta = 88\%$

Luminaire: LEDiL Oy C12361_HB-2X2-W_(Luxeon_5050)

Lamps: 1 x Luxeon_5050_2x2_1270.76lm@80mA_CCT=5700K_P=7.35815W_I=0.080A_70CRI



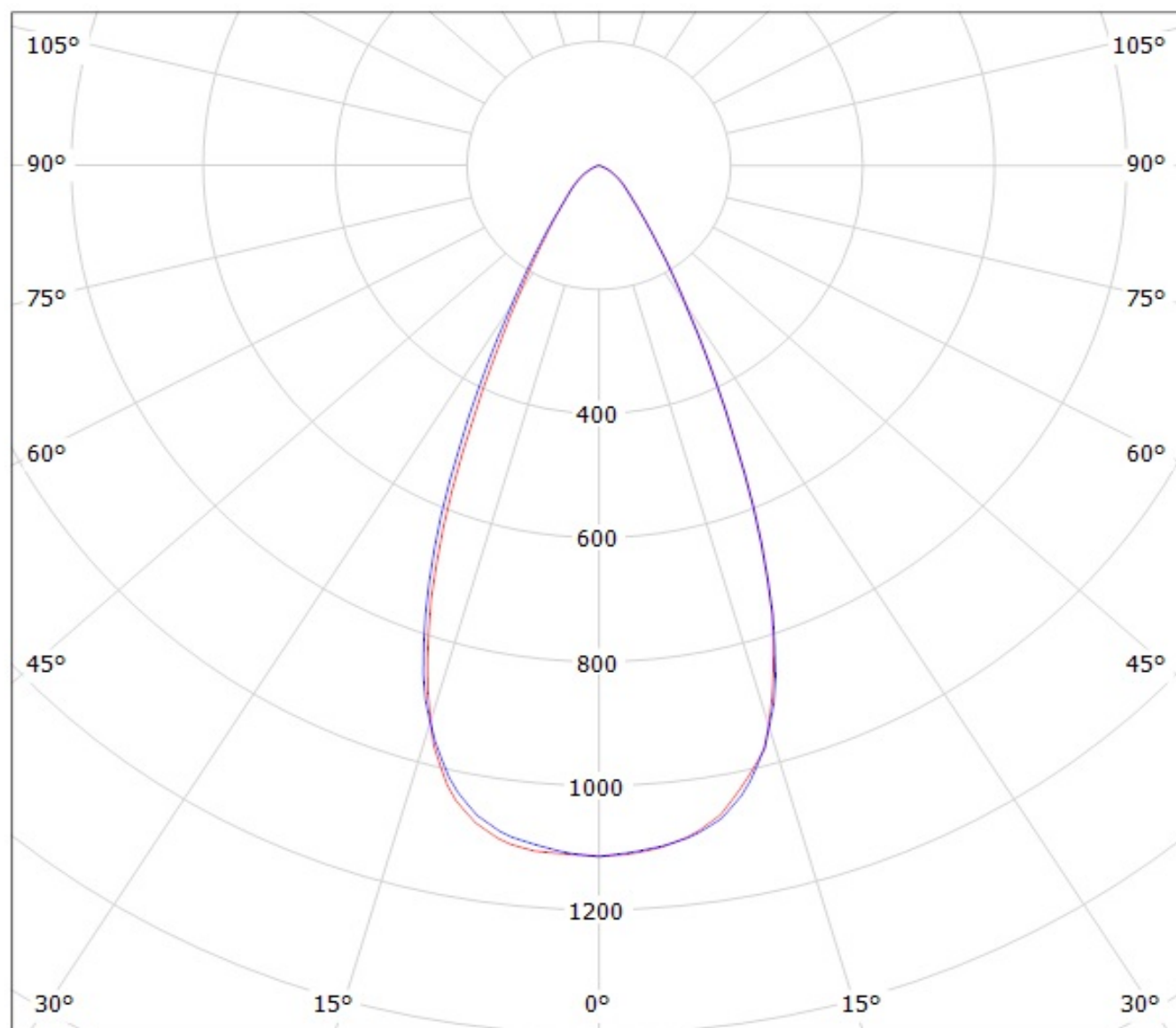
cd/klm

— C0 - C180

— C90 - C270

$\eta = 94\%$

Luminaire: LEDil Oy C12361_HB-2x2-W_(NCSxx19A) Efficiency=85%
Lamps: 1 x Nichia NCSL119AT-H1) 229lm @ 250mA CCT=2800K P=3.1W I=250mA

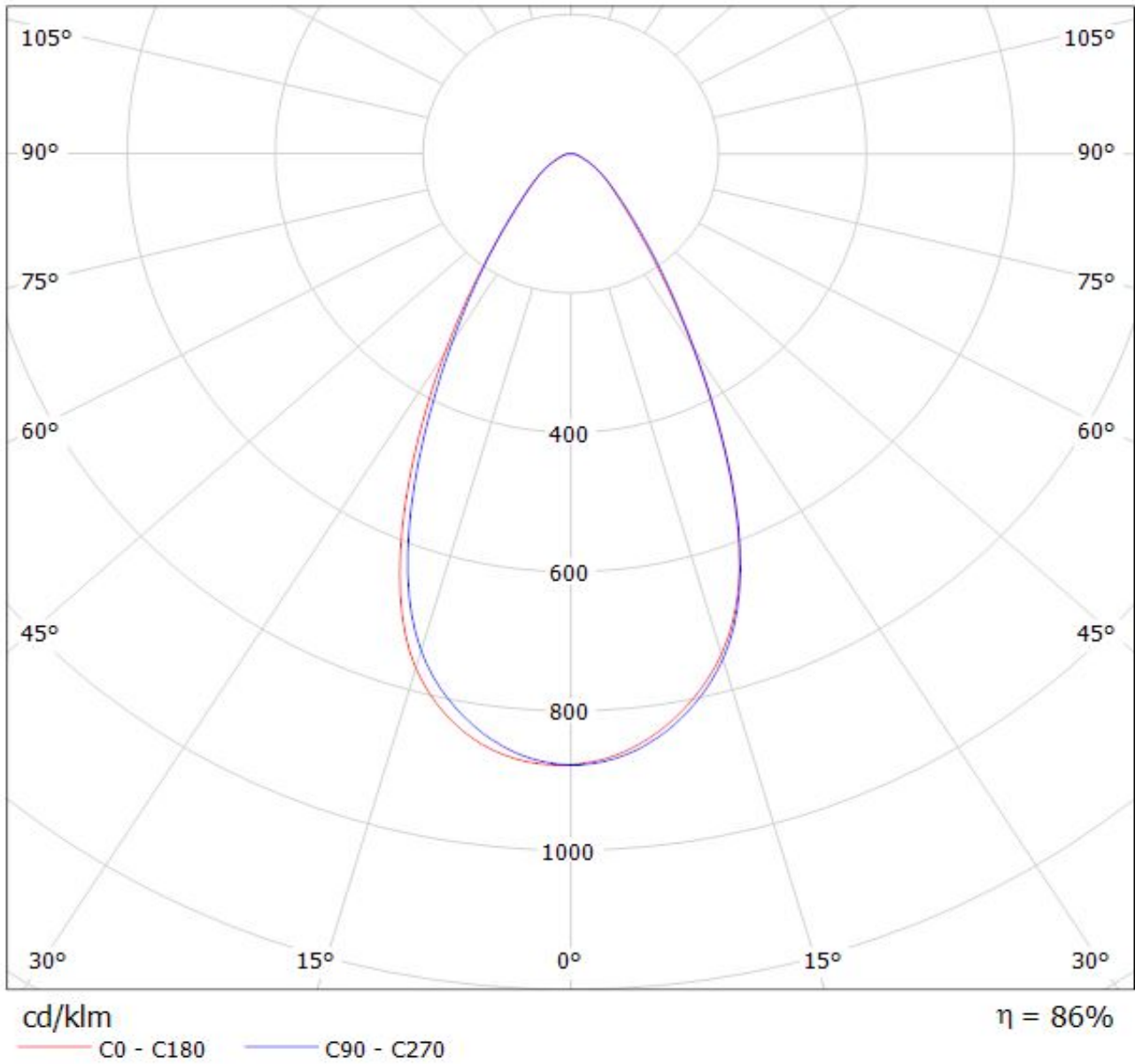


cd/klm

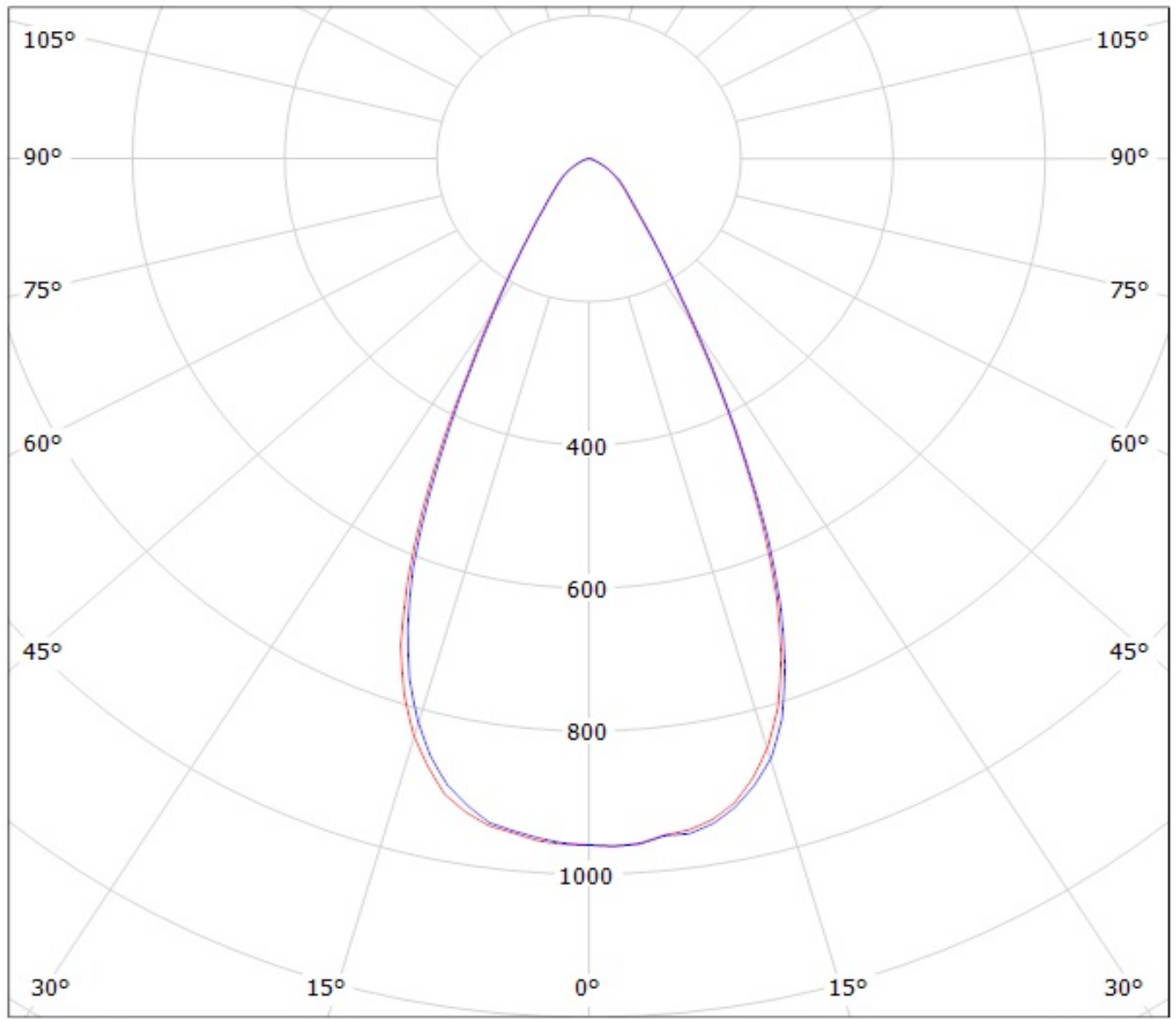
— C0 - C180

— C90 - C270

Luminaire: LEDiL Oy C12361_HB-2X2-W_(NS9x383) Eff. 86%
Lamps: 1 x Nichia NS9x383 (288lm@250mA)



Luminaire: Ledil Oy C12361_HB-2X2-W_(NVS19B) Efficiency=85%
Lamps: 1 x Nichia NVS19B (NVSL219BE) 308lm @ 250mA CCT= P=2.89W I=250mA



cd/klm

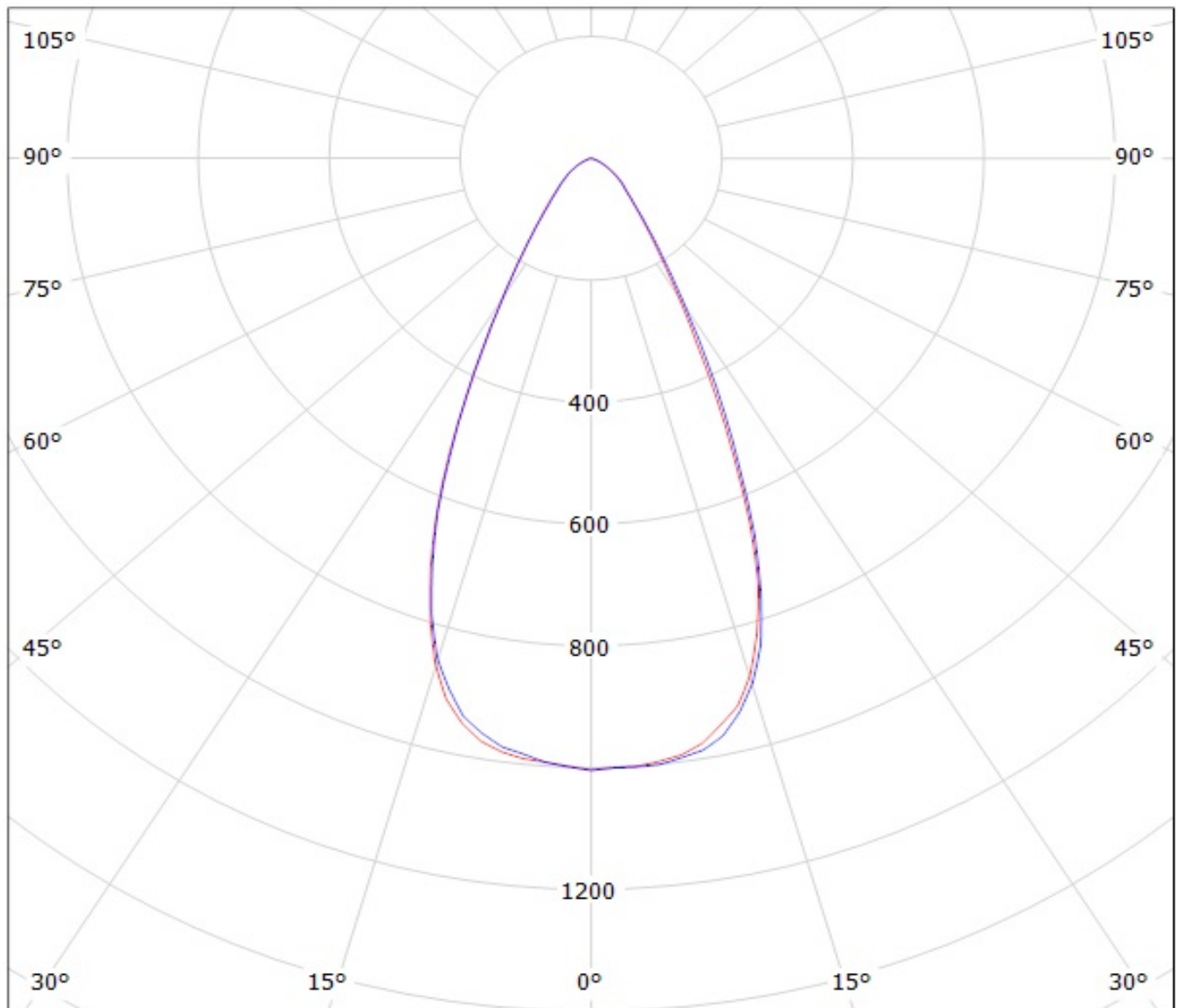
— C0 - C180

— C90 - C270

$\eta = 86\%$

Luminaire: LEDil Oy C12361_HB-2x2-W_(NCSxx19B) Efficiency=85%

Lamps: 1 x Nichia NCSxx19b (NCSW119BE) 425lm @ 250mA CCT=5400K P=3.1W I=250mA



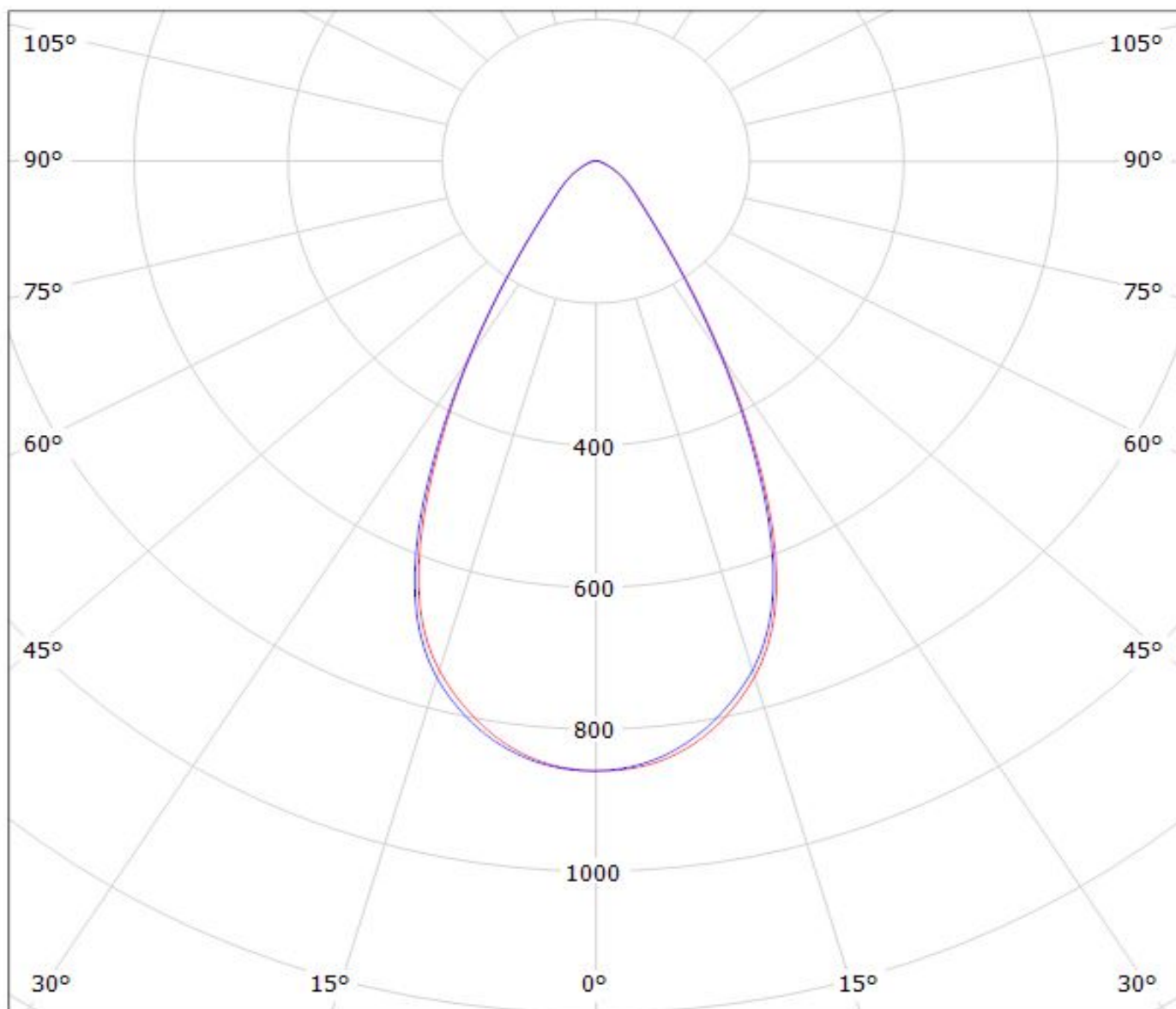
cd/klm

— C0 - C180

— C90 - C270

Luminaire: LEDiL Oy C12361_HB-2X2-W_(NWSL229AE)

Lamps: 1 x Nichia_2X2_NWSL229AE_476.548lm@250mA_P=2.7515W_I=0.250A



cd/klm

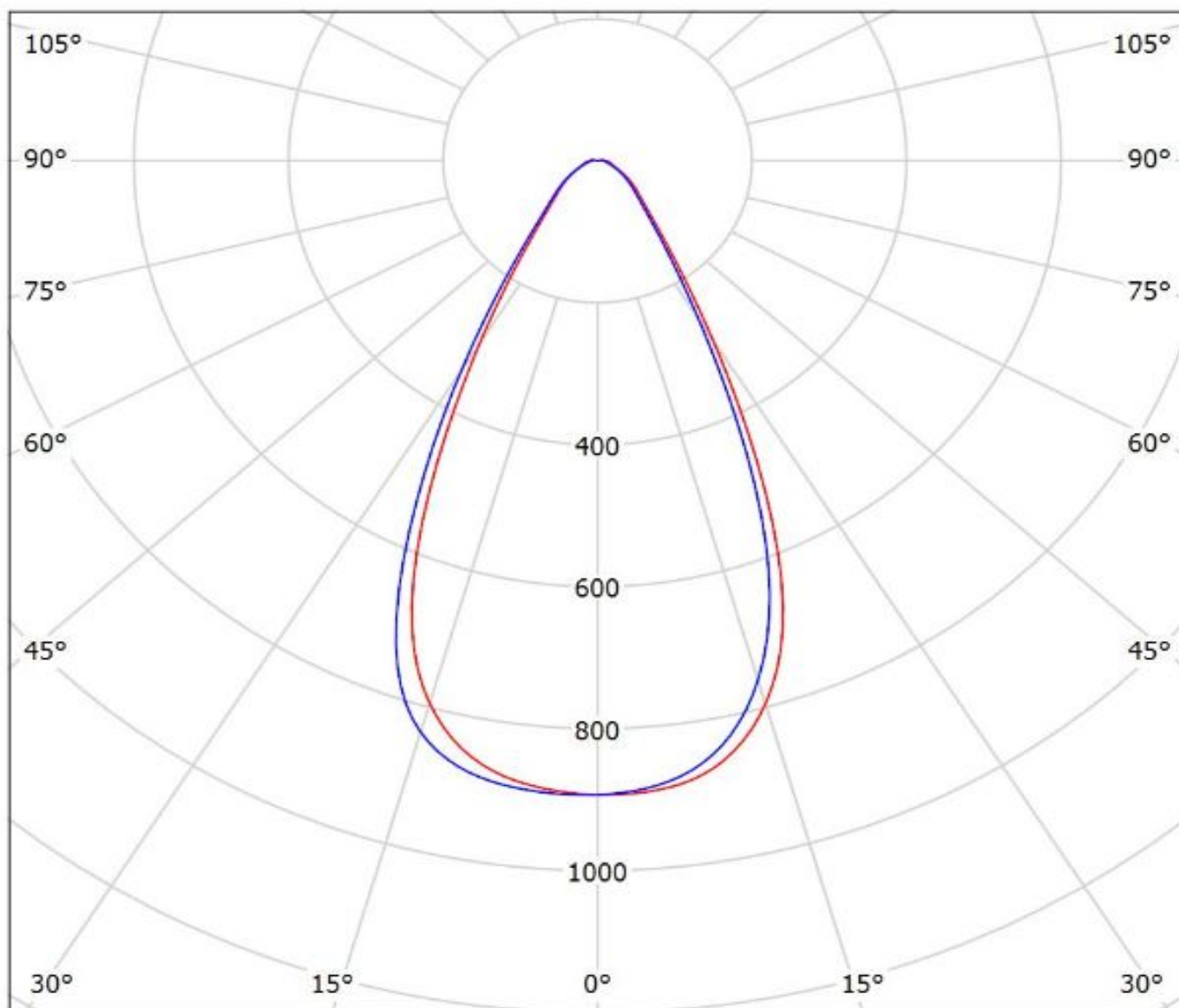
— C0 - C180

— C90 - C270

$\eta = 86\%$

Luminaire: LEDiL Oy C12361_HB-2X2-W_(NVSW3x9A)

Lamps: 1 x Nichia_NVSW3x9A_(sm405/R70)_483.482lmP=2.75904W_I=0.250A



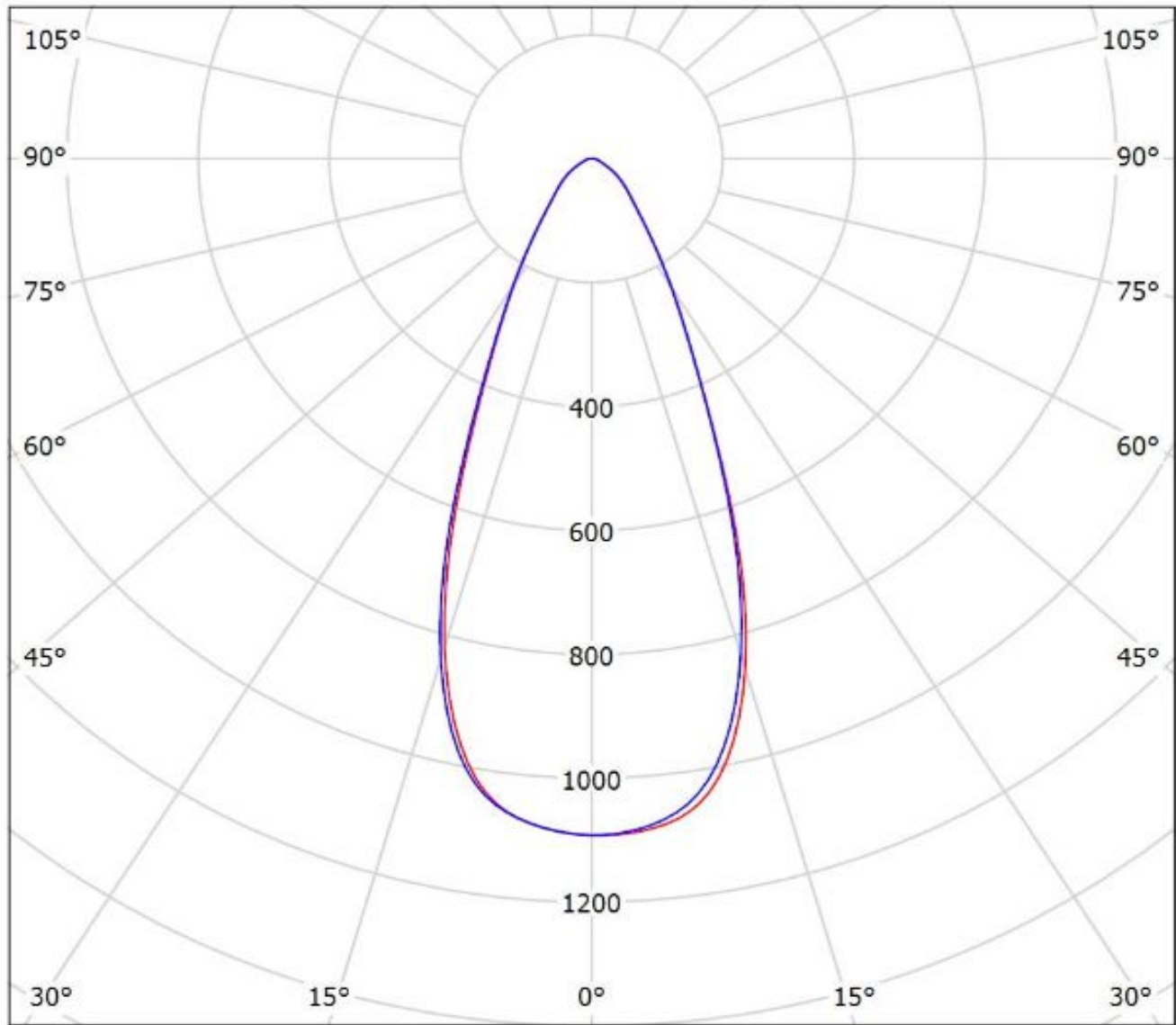
cd/klm

— C0 - C180 — C90 - C270

$\eta = 92\%$

Luminaire: LEDiL Oy C12361_HB-2X2-W_(E21A)

Lamps: 1 x Nichia_E21A_2X2_454.11lm@250mA_P=2.81W_I=0.250A



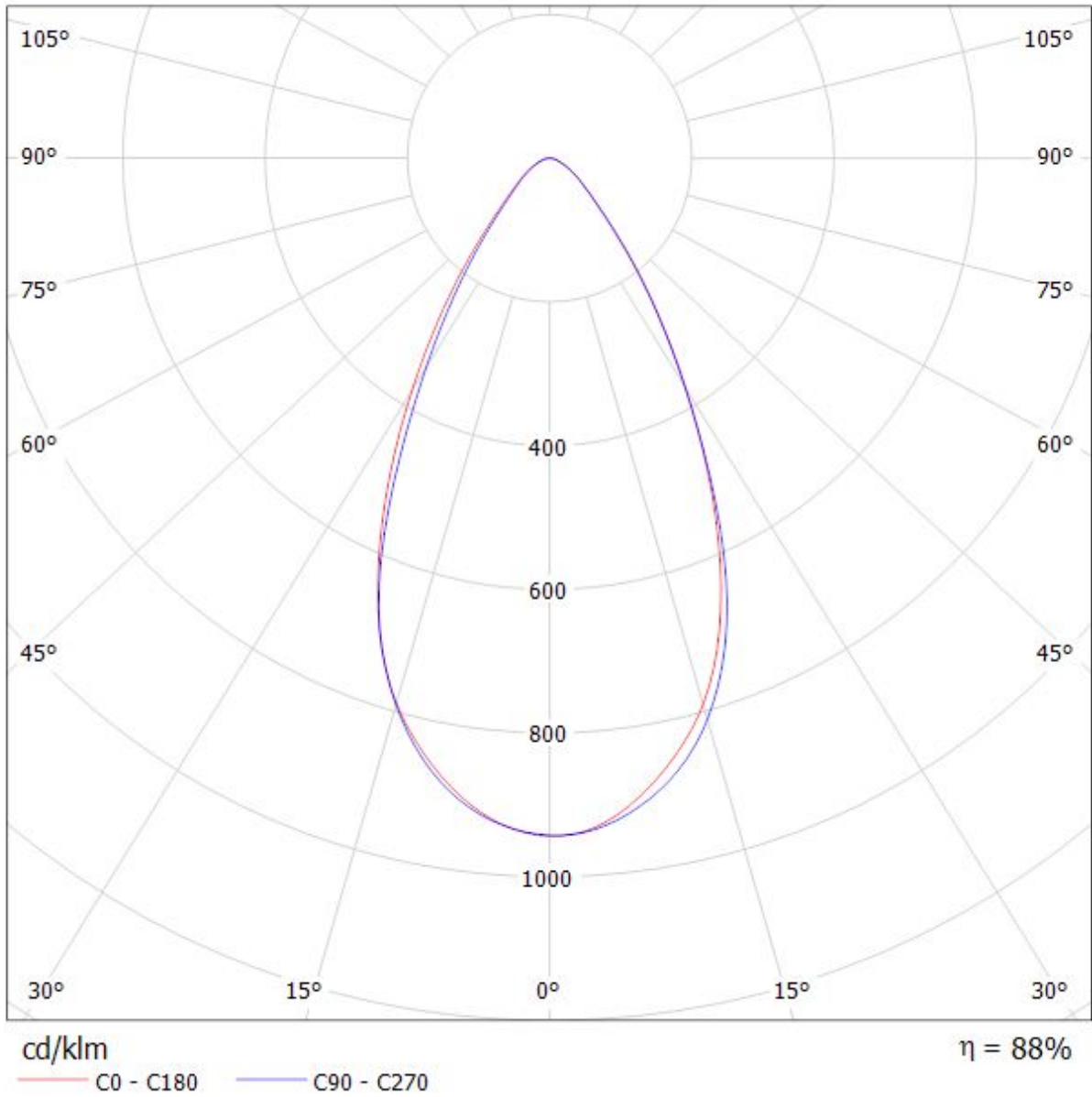
cd/klm

— C0 - C180

— C90 - C270

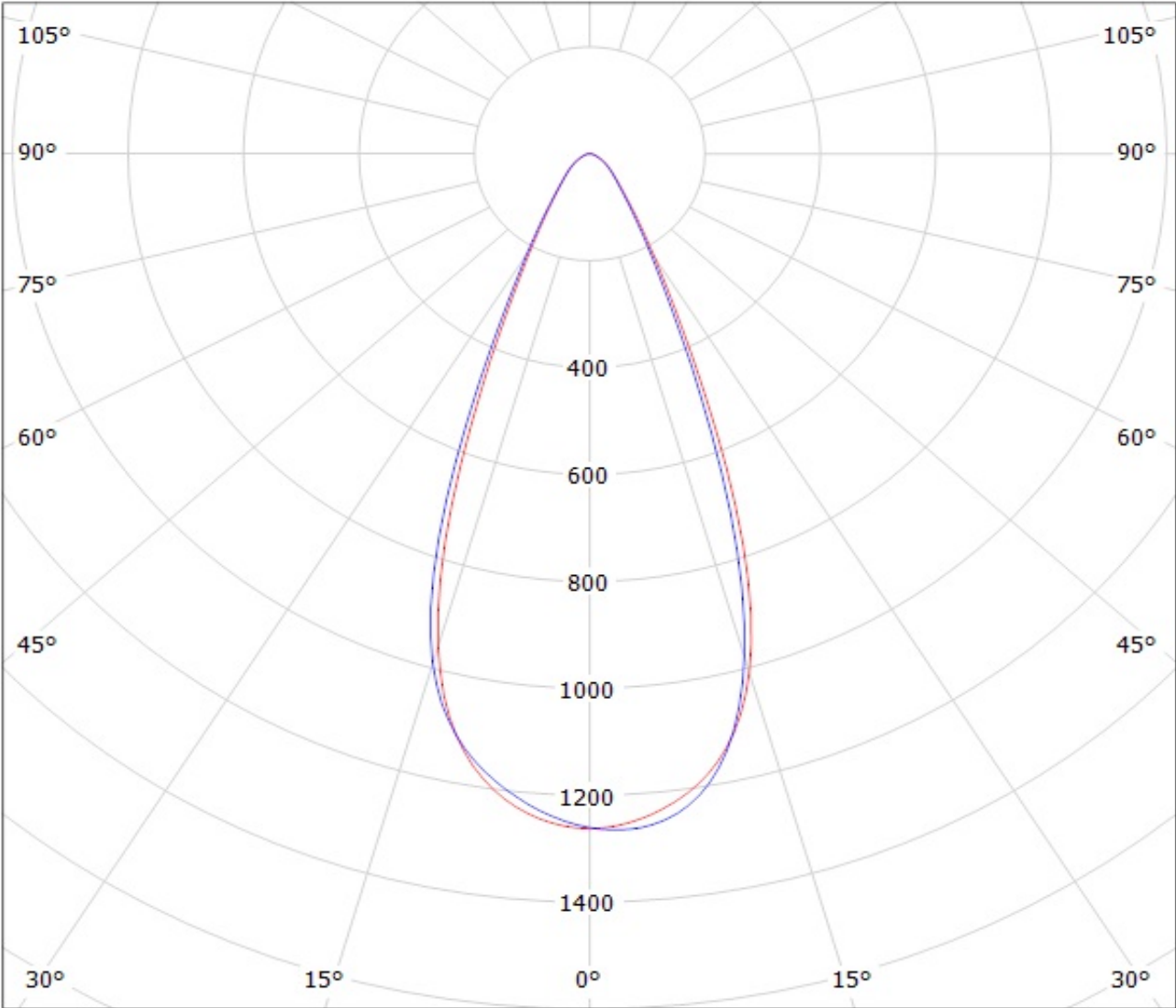
$\eta = 86\%$

Luminaire: LEDiL Oy C12361_HB-2X2-W_(OLP-5065F6L-06A) Eff.88.5%
Lamps: 1 x OPTOGAN_2x2_(OLP-5065F6L-06A-80-D0500) 423.091lm@250mA CCT=5000K P=2.98506W I=249.9mA



Luminaire: LEDIL OY C12361_HB-2X2 (SSL80) Efficiency=89%

Lamps: 1 x Osram SSL80 (340lm @ 250mA)

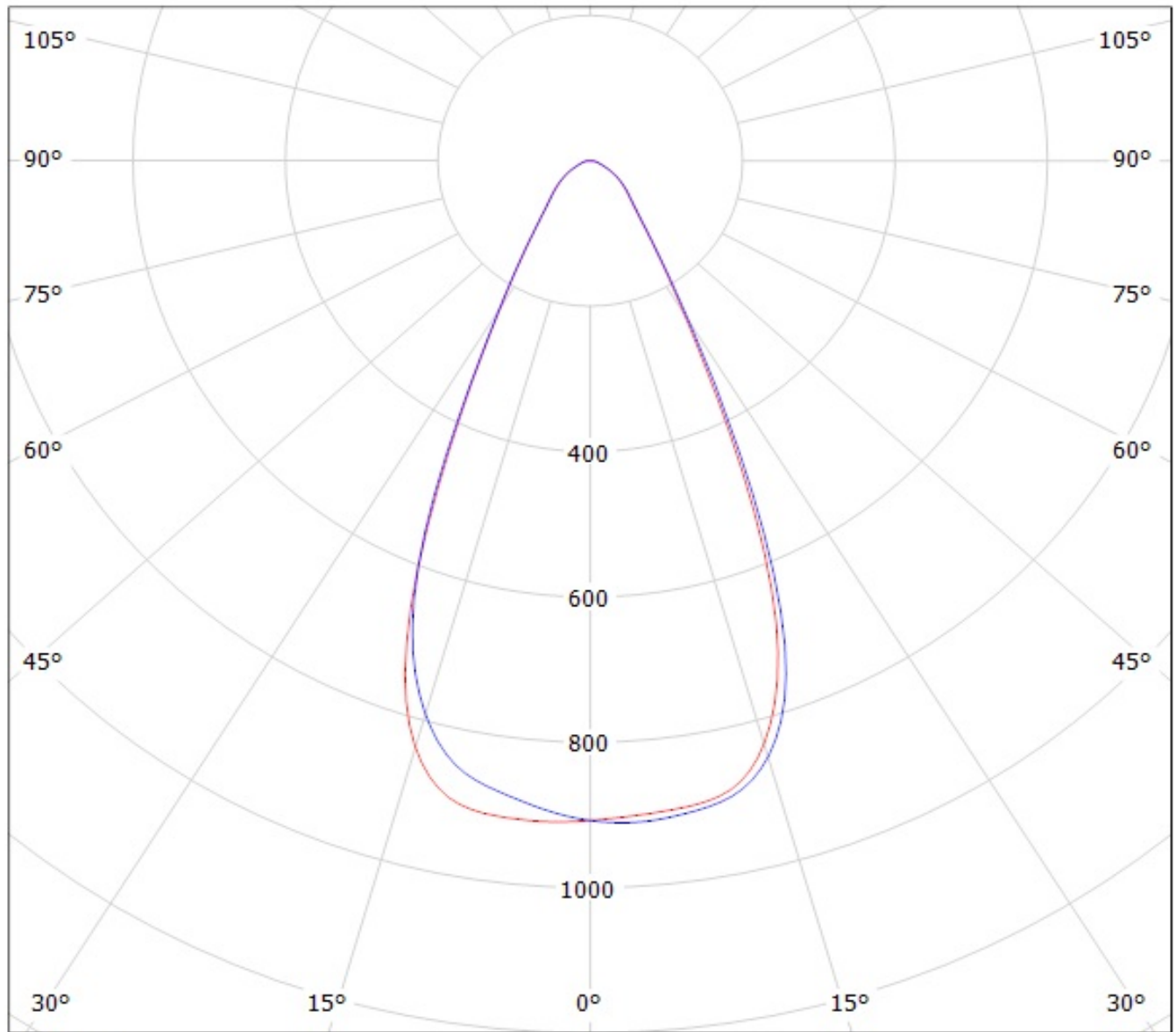


cd/klm

— C0 - C180

— C90 - C270

Luminaire: LEDIL OY C12361_HB-2X2_(SQ_PC) Efficiency=87%
Lamps: 1 x OSLOM SQUARE PC (400.6lm)

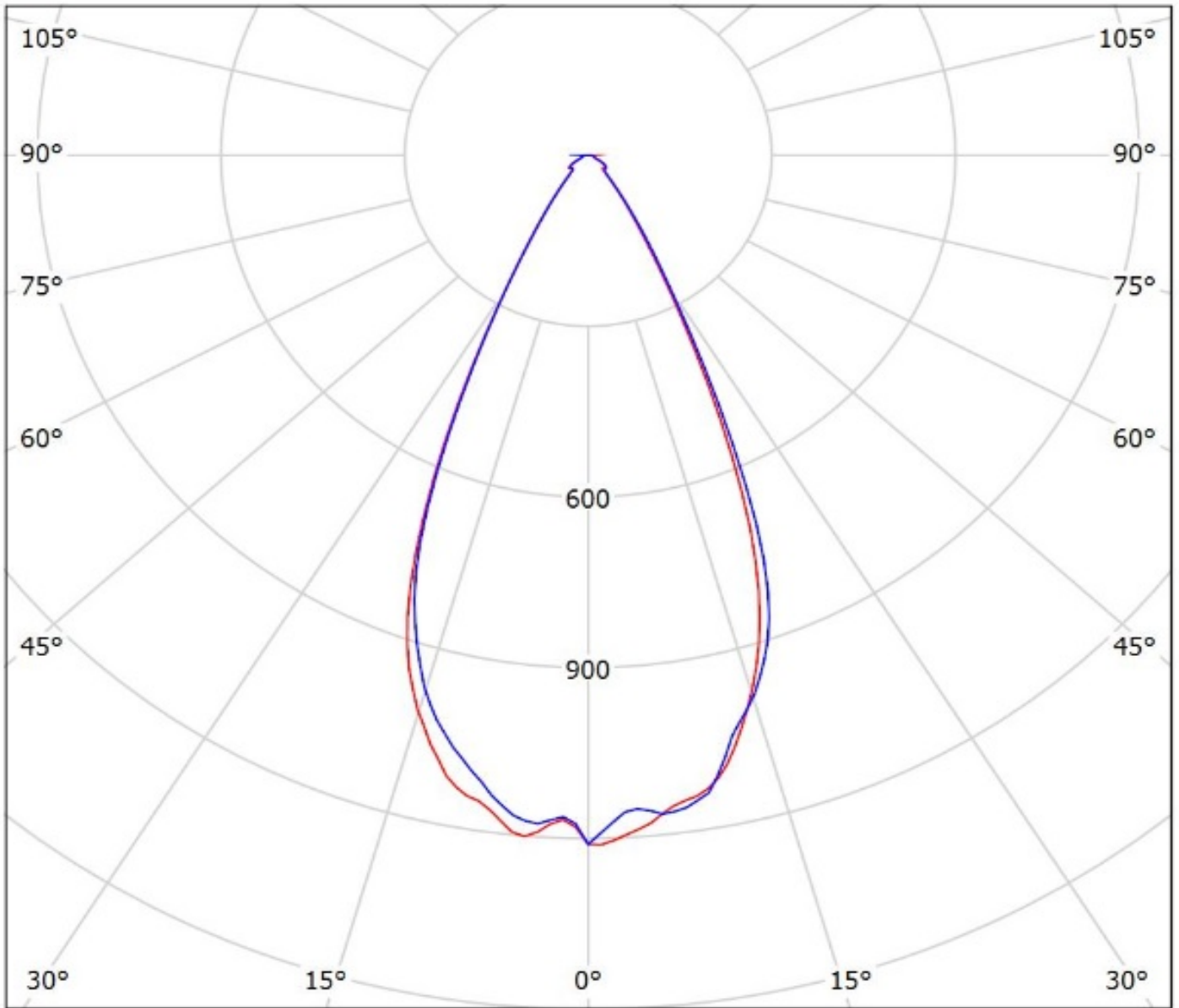


cd/klm

— C0 - C180

— C90 - C270

Luminaire: Ledil Oy C12361_HB-2X2-W_(Duris_P8)_SIMULATED
Lamps: 1 x Osram Duris P8

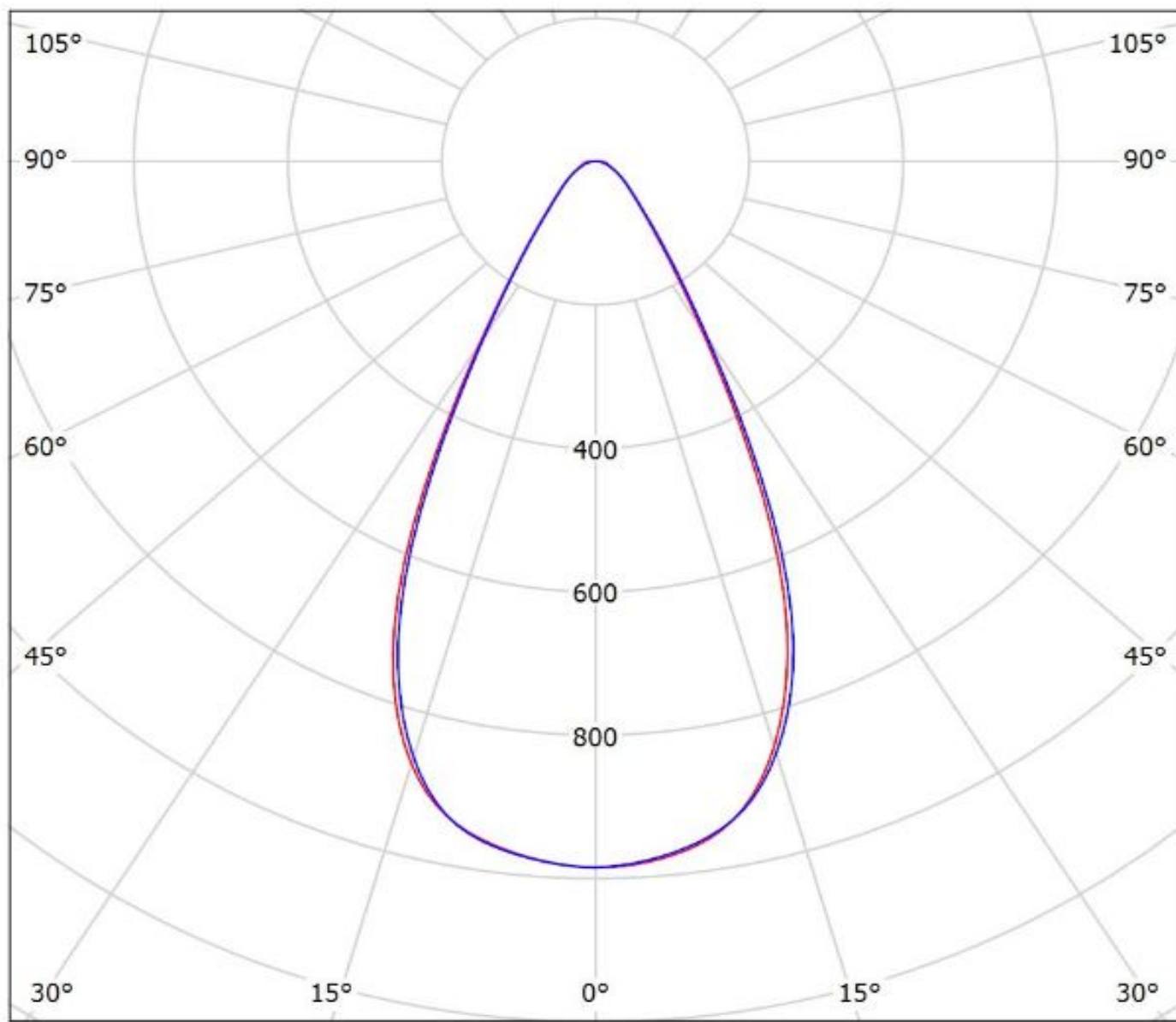


cd/klm
— C0 - C180 — C90 - C270

$\eta = 93\%$

Luminaire: Ledil C12361_HB-2X2-W_(Fortimo_FastFlex_LED_board_2x8/740_DA_G3)

Lamps: 1 x Fortimo_FastFlex_LED_board_2x8/740_DA_G3_1828.23lm@250mA_P=11.667W_I=0.25A

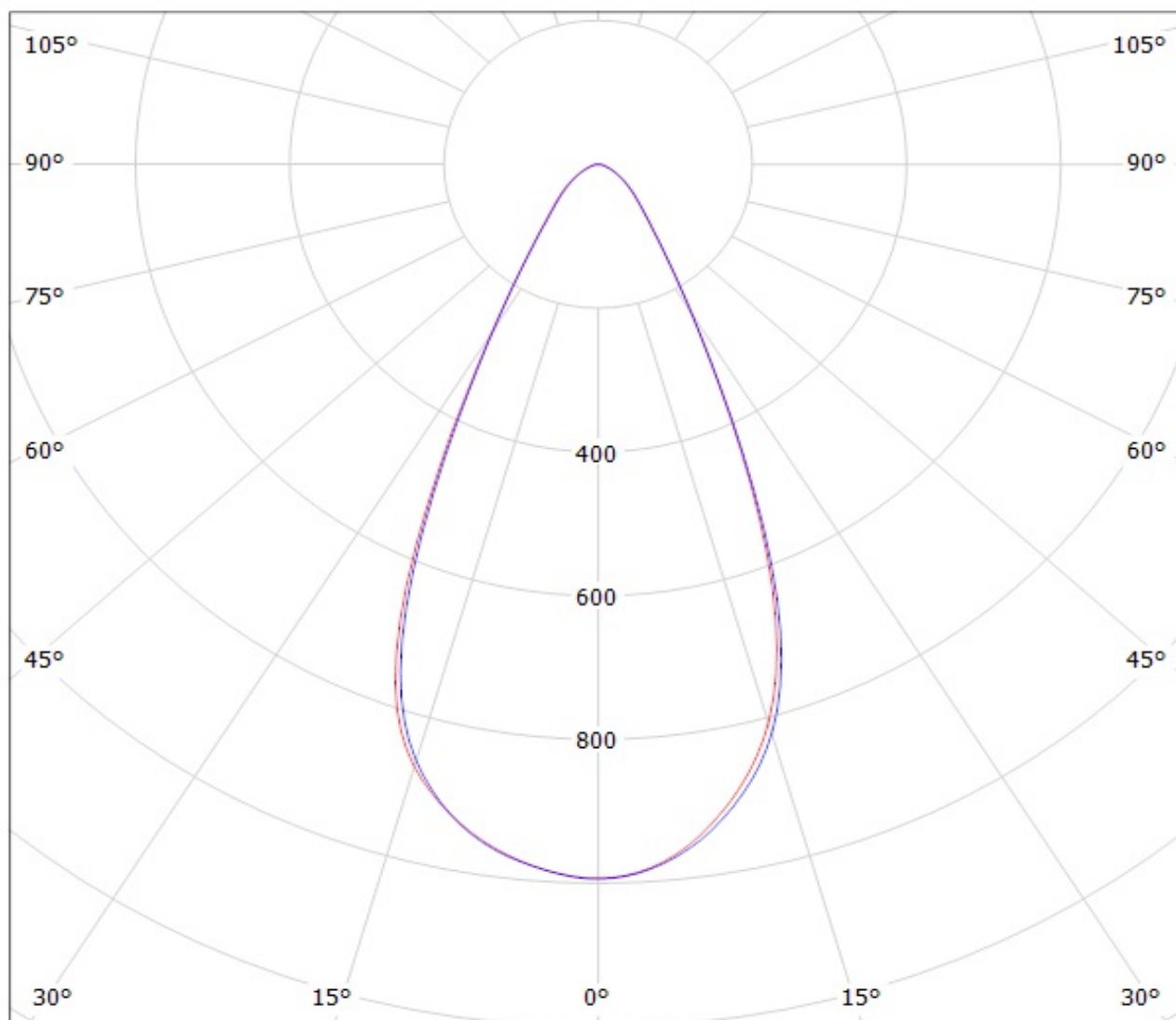


cd/klm

— C0 - C180 — C90 - C270

$\eta = 94\%$

Luminaire: LEDIL OY C12361_HB-2X2 (3535) Efficiency=89%
Lamps: 1 x SAmsung 3535 (353lm @ 250mA)



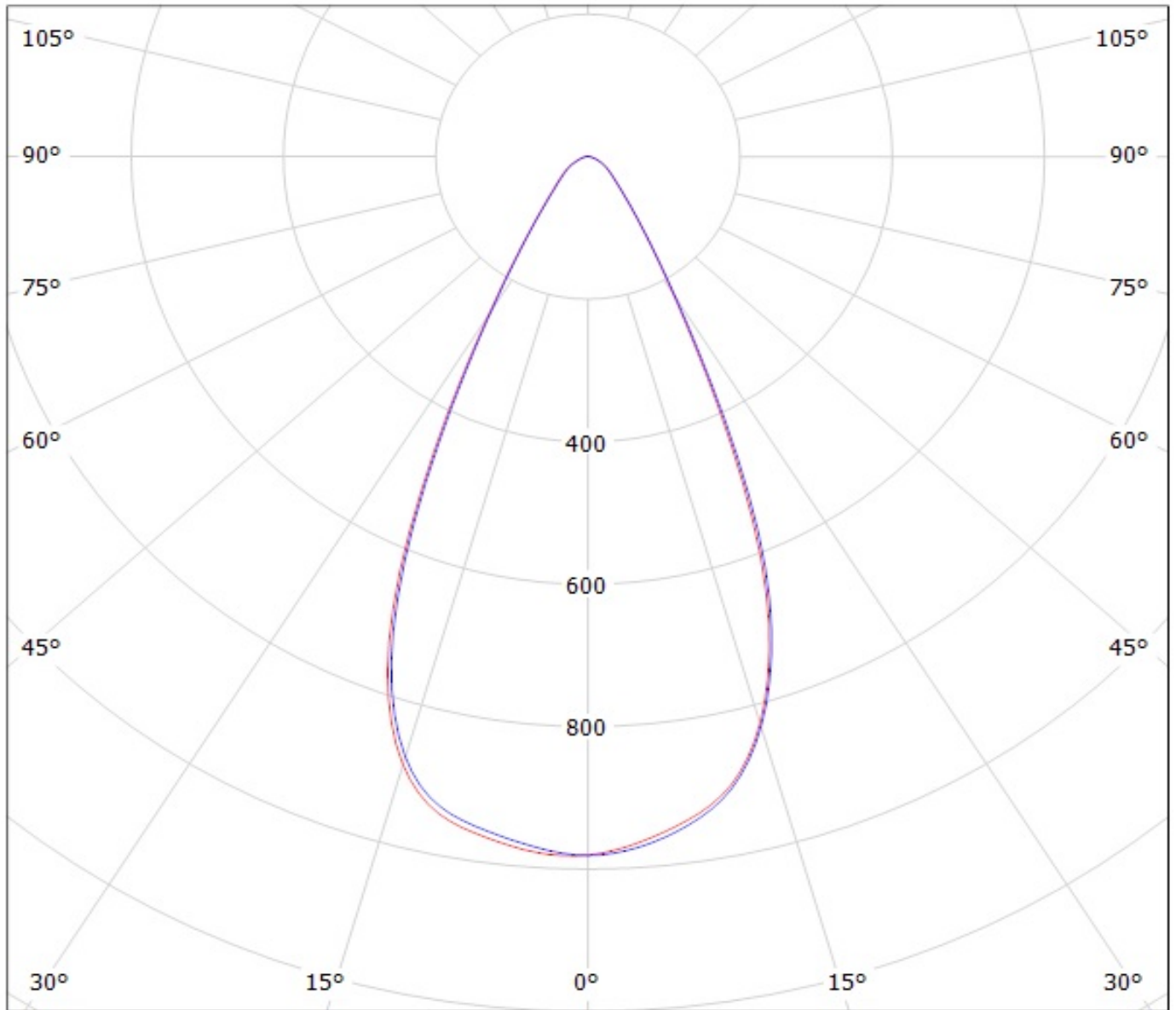
cd/klm

— C0 - C180

— C90 - C270

Luminaire: LEDiL Oy C12361_HB-2X2-W_(LH351Z) Eff.87.4%

Lamps: 1 x SAMSUNG_LH351Z_2x2_359.49lm@250mA_P=2.86371W_I=249.8mA



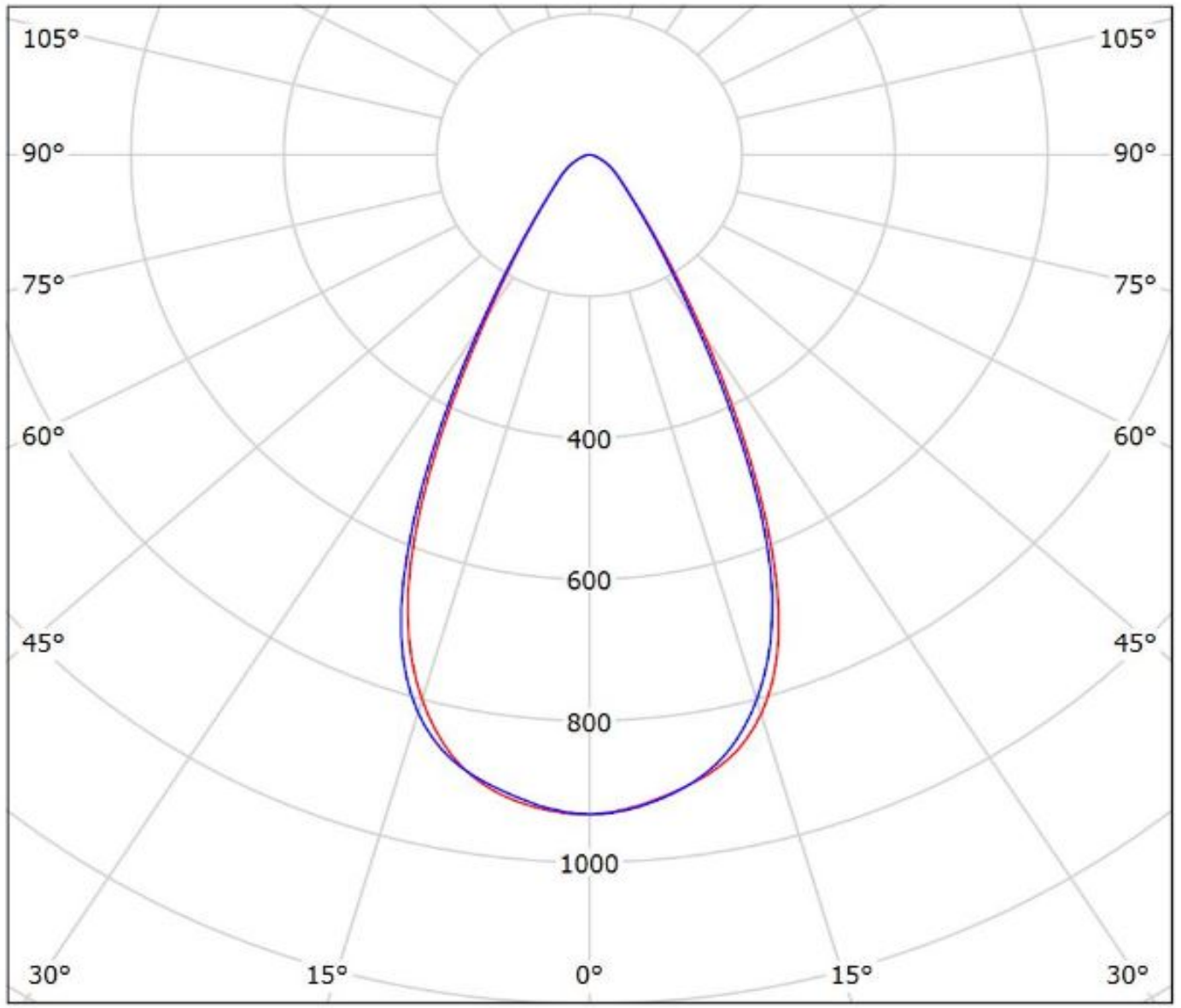
cd/klm

— C0 - C180

— C90 - C270

Luminaire: Ledil C12361_HB-2X2-W_(LH351B)

Lamps: 1 x Samsung_LH351B_2x2_444.178lm@250mA_P=2.8535W_I=0.25A



cd/klm

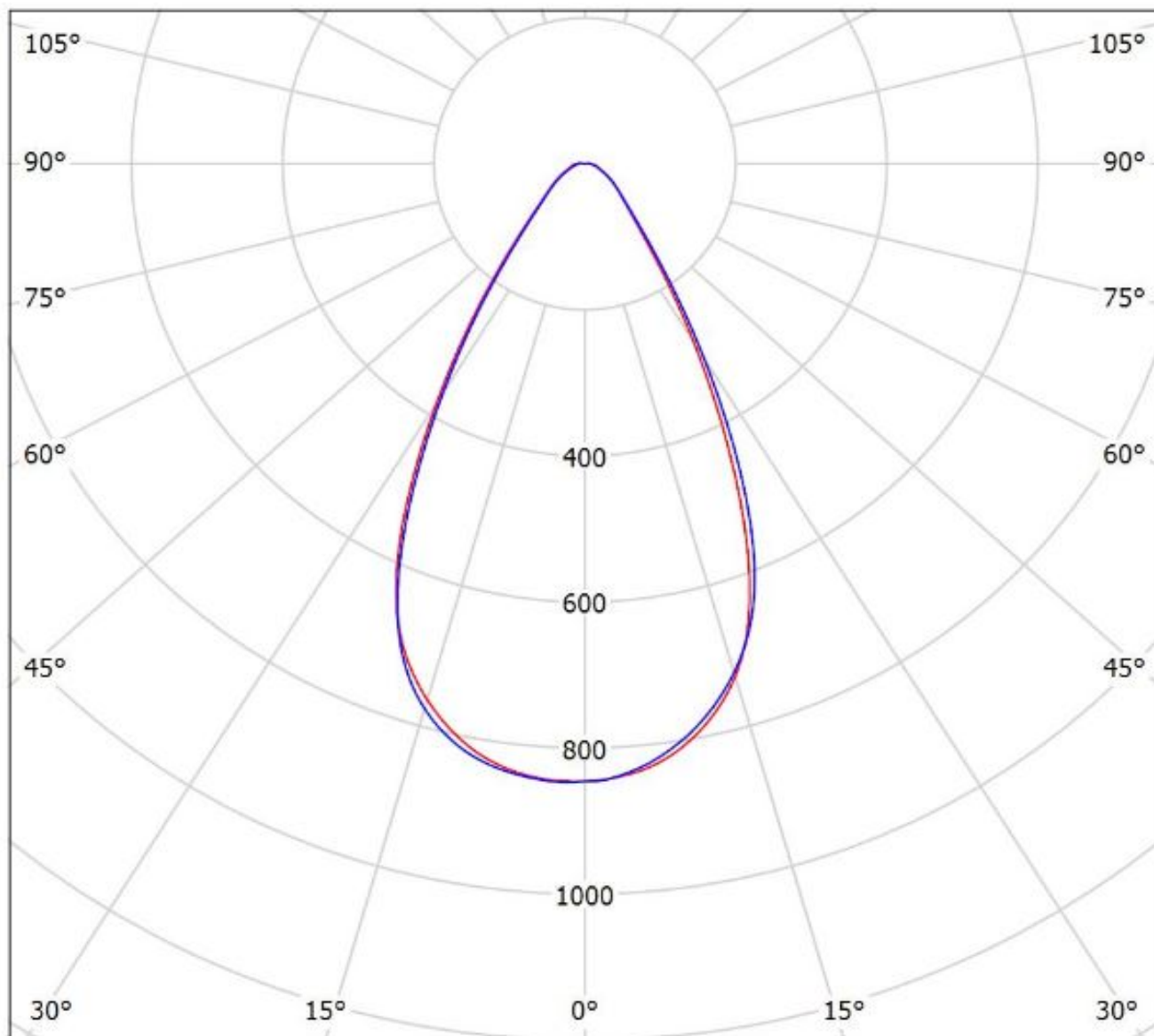
— C0 - C180

— C90 - C270

$\eta = 86\%$

Luminaire: Ledil C12361_HB-2X2-W_(LH351D)

Lamps: 1 x Samsung_LH351D_536.957lm@250mA_P=2.7695W_I=0.250A



cd/klm

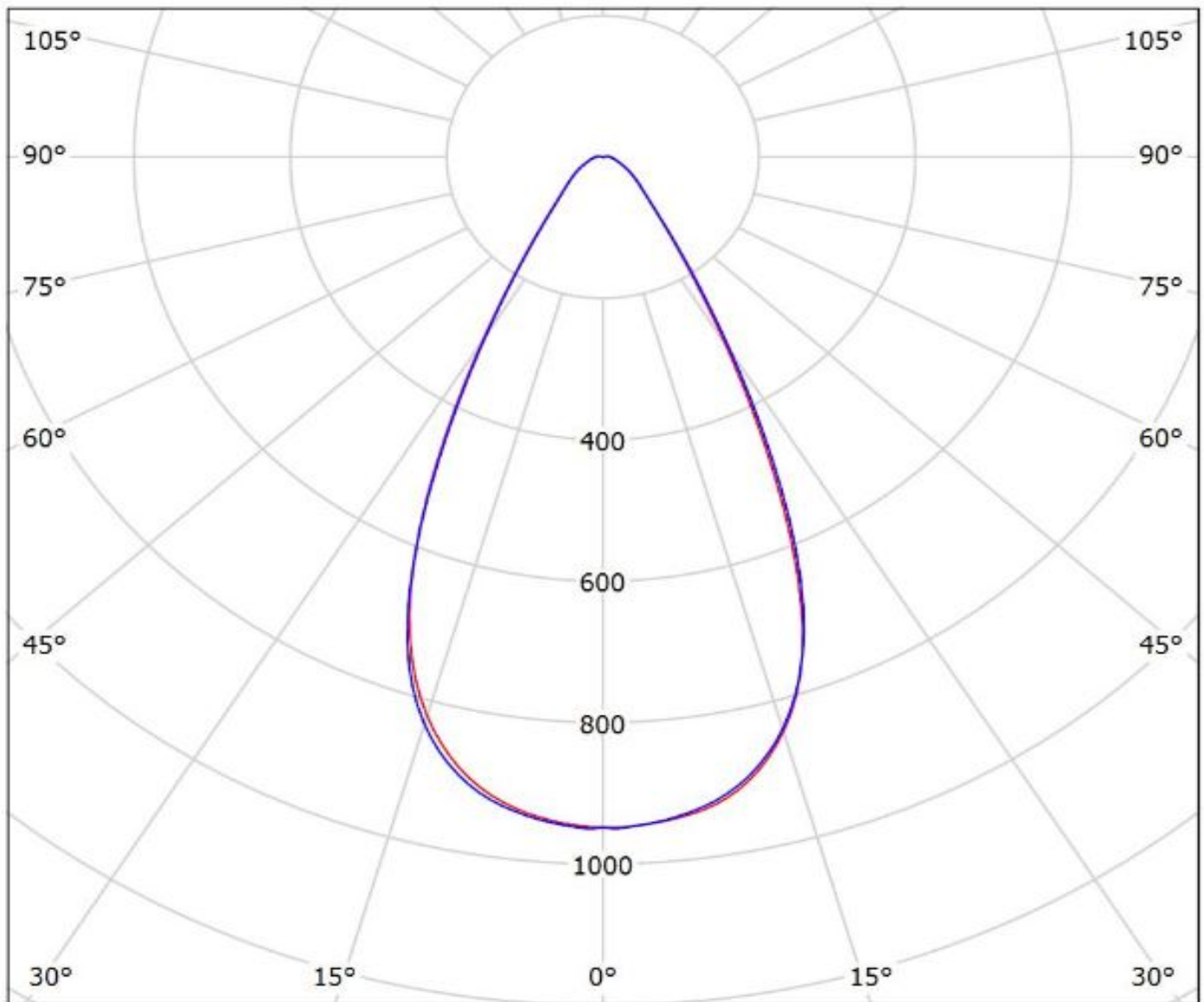
— C0 - C180 — C90 - C270

$\eta = 91\%$

Luminaire: Ledil C12361_HB-2X2-W_(LH351C)

Samsung_LH351C_518.223lm@250mA_P=2.85225W_I=0.25A

Lamps: 1 x Samsung_LH351C_518.223lm@250mA_P=2.85225W_I=0.25A



cd/klm

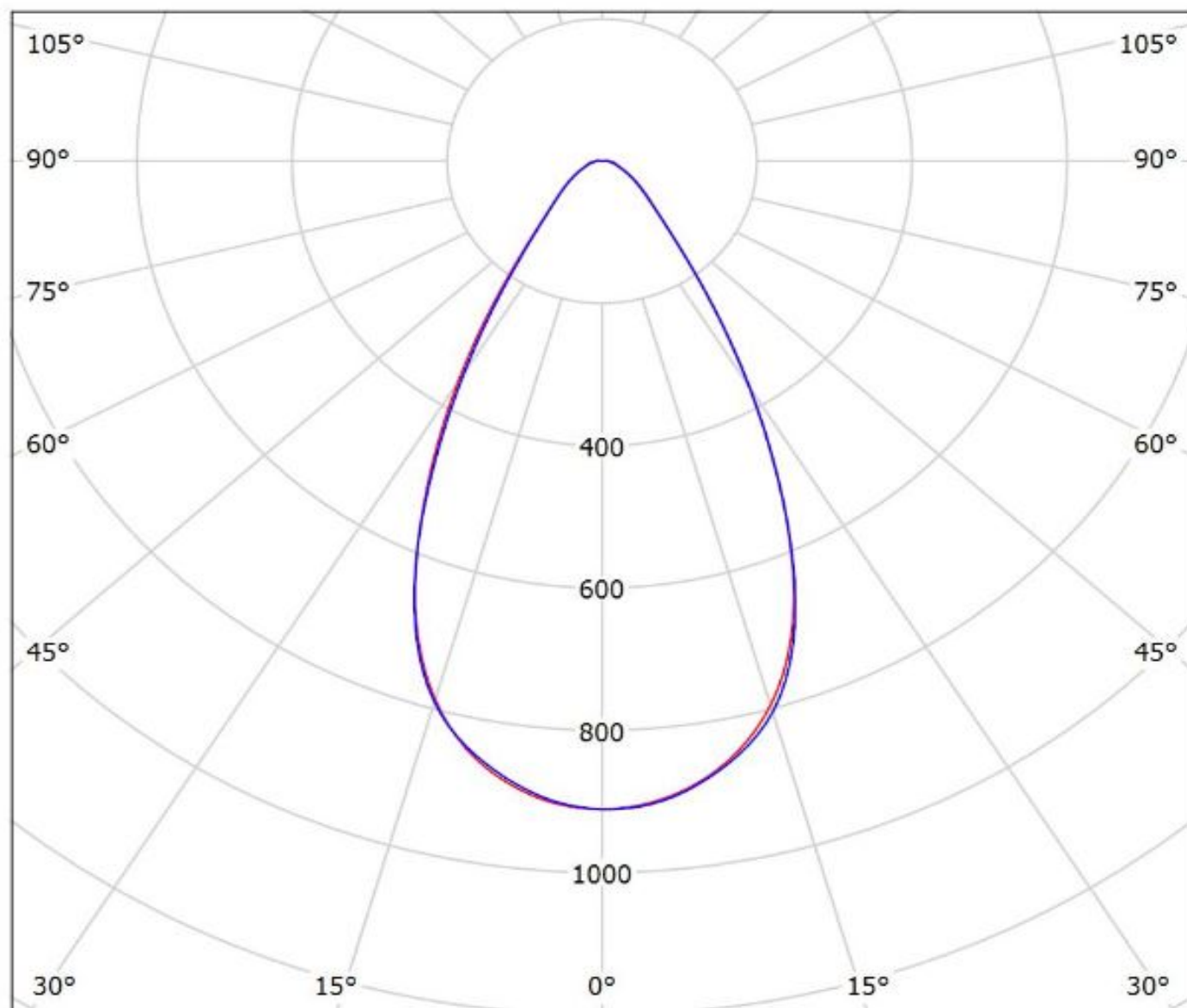
— C0 - C180

— C90 - C270

$\eta = 93\%$

Luminaire: Ledil C12361_HB-2X2-W_(LH508A)

Lamps: 1 x Samsung_LH508A_2x2_2060.04lm@160mA_CCT=5000K_CRI=80_P=15.5405W_I=0.16A



cd/klm

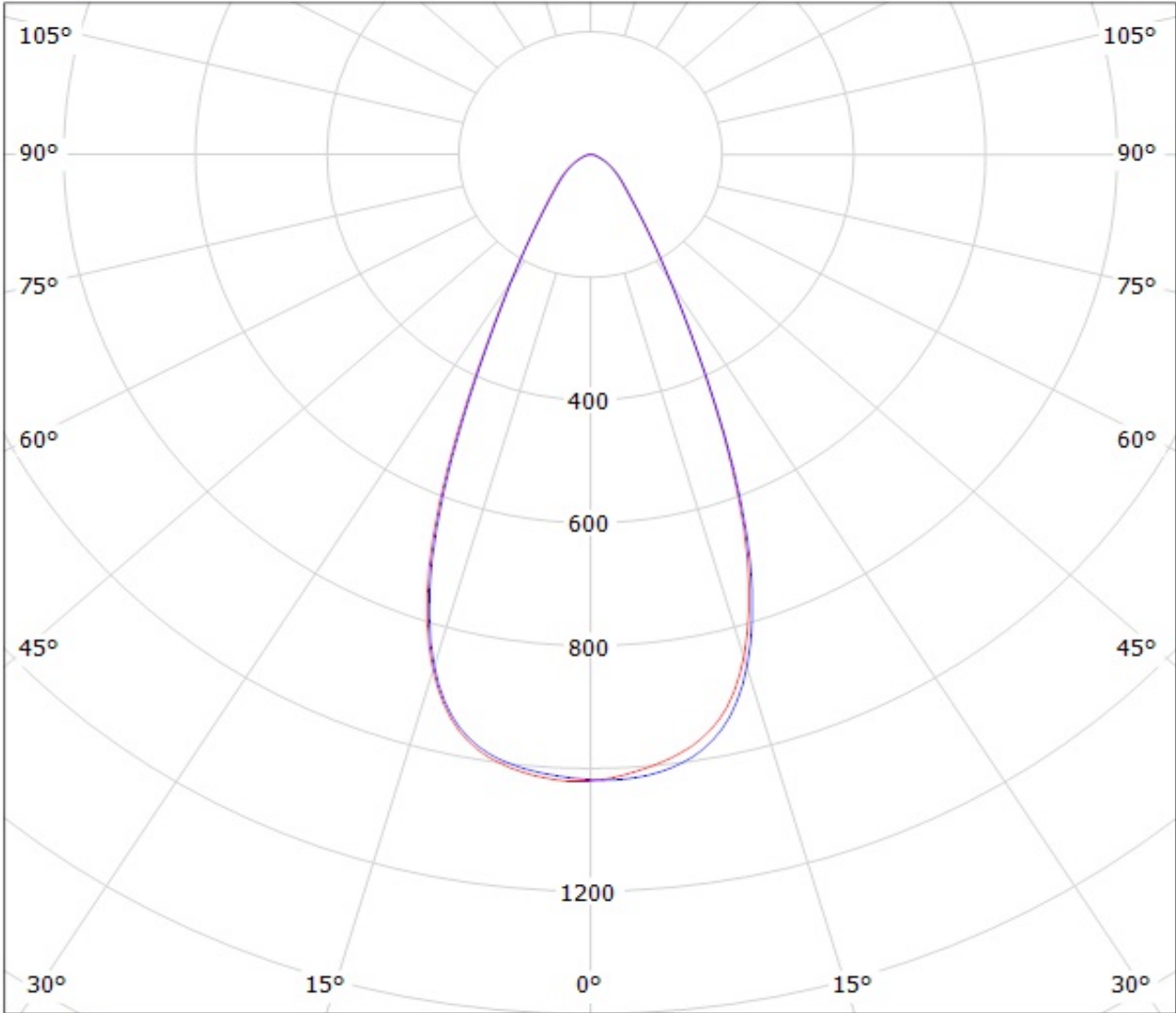
— C0 - C180

— C90 - C270

$\eta = 93\%$

Luminaire: LEDIL OY C12361_HB-2X2 (Z5) Efficiency=88%

Lamps: 1 x Seoul Z5 (290lm @ 250mA)

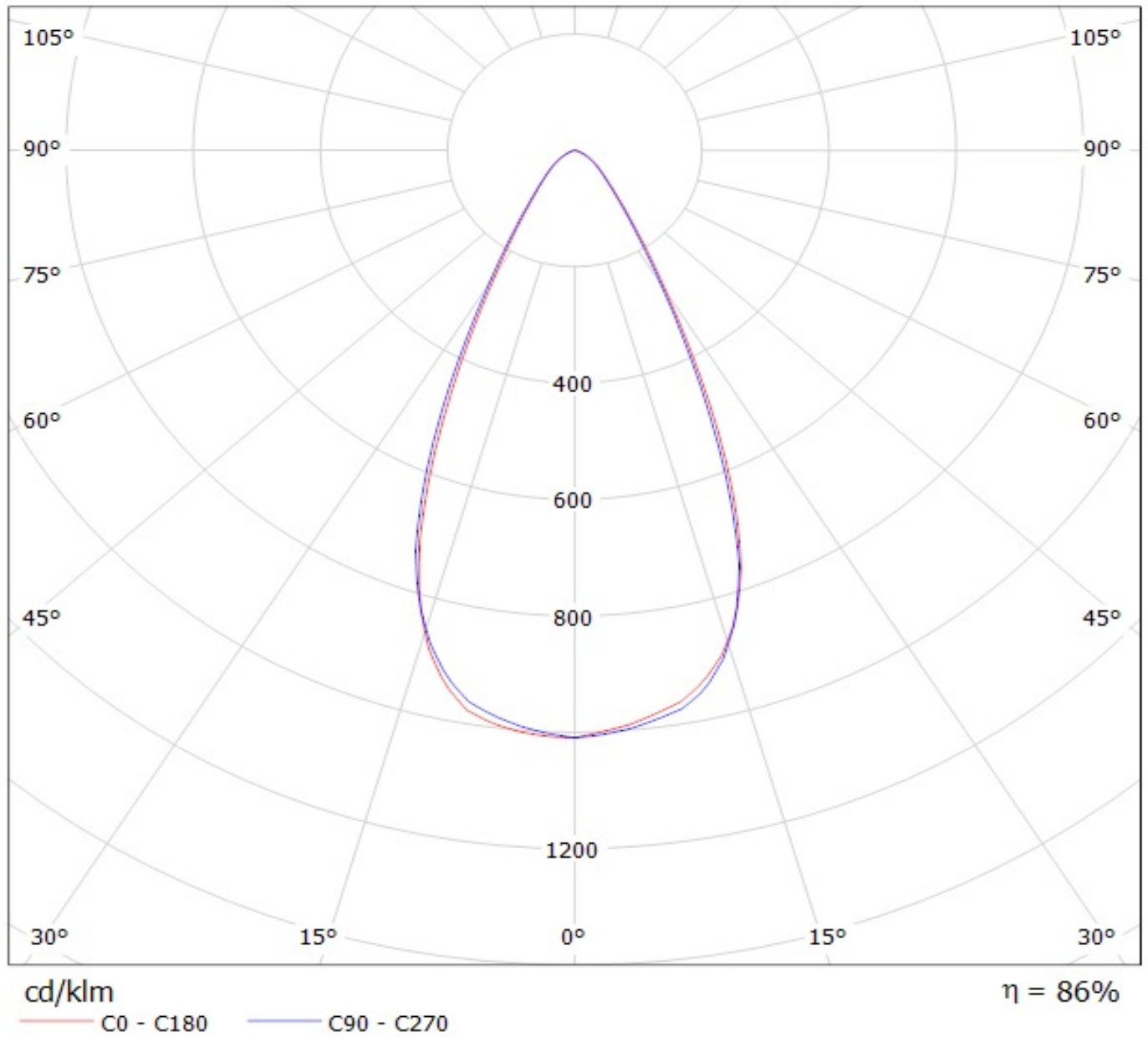


cd/klm

— C0 - C180

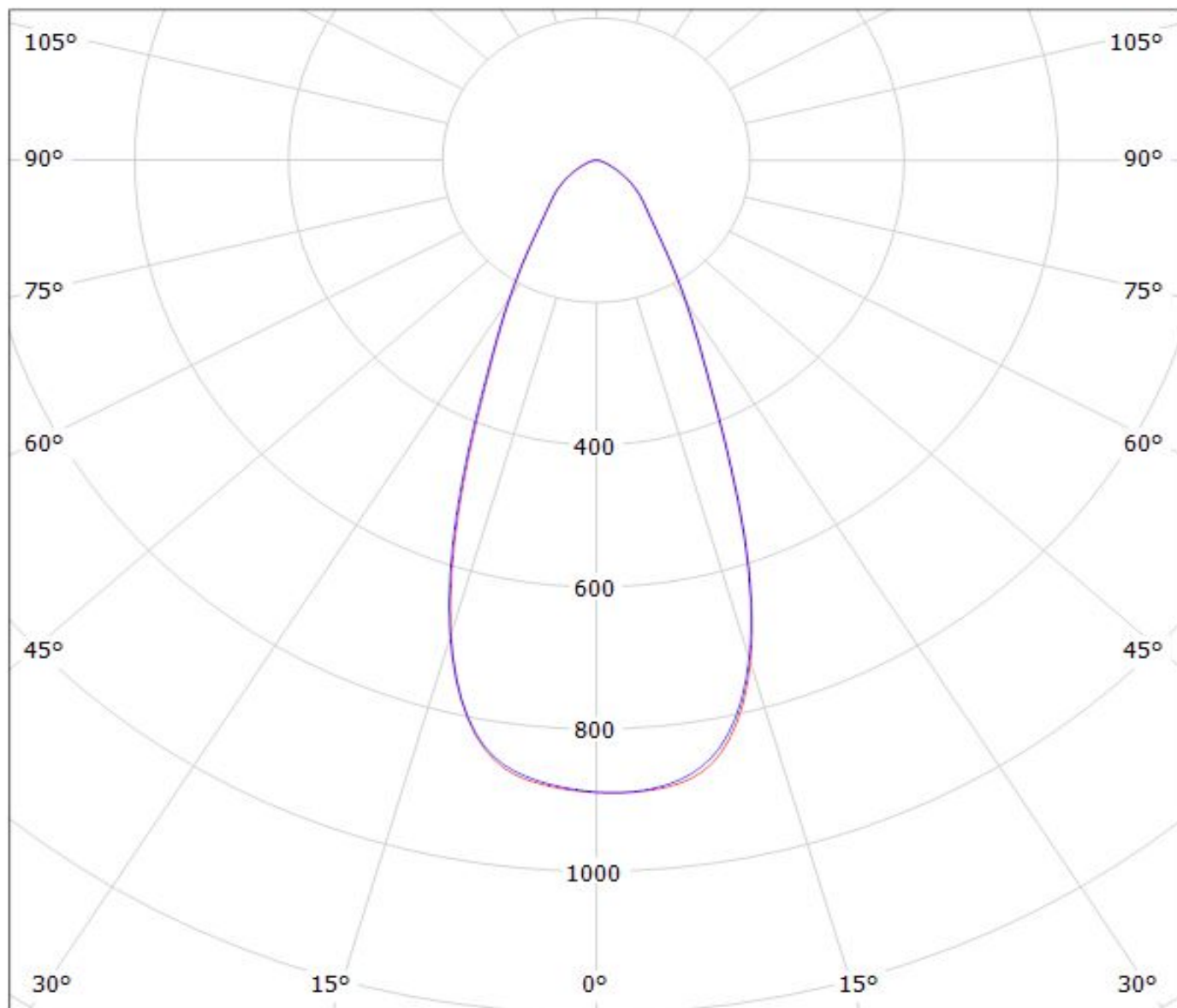
— C90 - C270

Luminaire: LEDil Oy C12361_HB-2X2-W_(Z5M1) Efficiency=85%
Lamps: 1 x Seoul Z5M1 (SZ5-M1-WN-C8) 379lm @ 250mA CCT=4600K P=2.9W I=250mA



Luminaire: LEDiL Oy C12361_HB-2X2-W_(WICOP2_Z8Y15)

Lamps: 1 x SEOUL_WICOP2_Z8Y15_336.842lm@250mA_P=2.9399W_I=0.250A



cd/klm

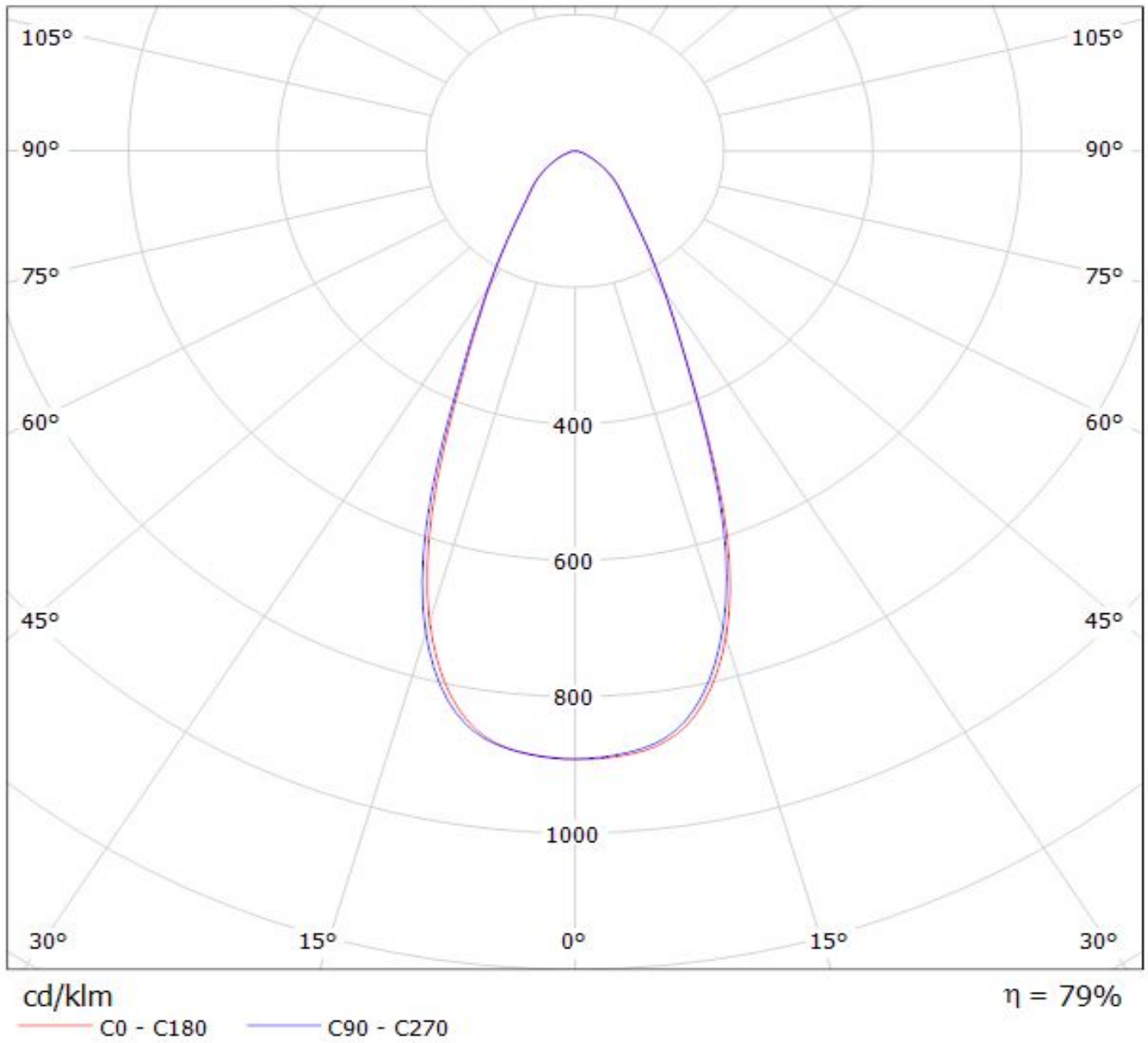
— C0 - C180

— C90 - C270

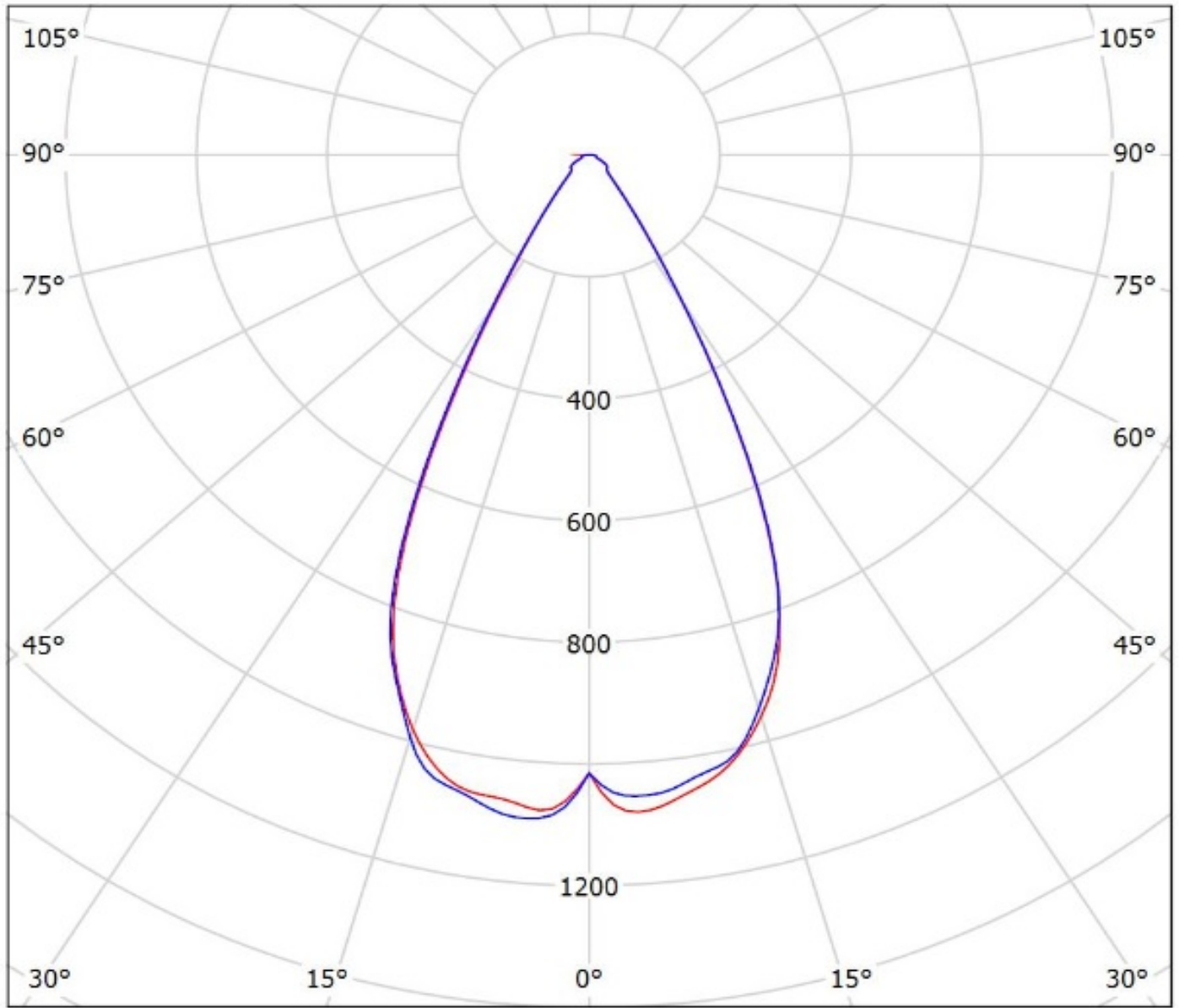
$\eta = 79\%$

Luminaire: LEDiL Oy C12361_HB-2X2-W_(WICOP2_Z8Y19)

Lamps: 1 x SEOUL_WICOP2_Z8Y19_450.124lm@250mA_P=2.8579W_I=0.250A



Luminaire: Ledil Oy C12361_HB-2X2-W_(Z5M2)_SIMULATED
Lamps: 1 x Seoul Z5M2 (SZ5-M2-W0-00)



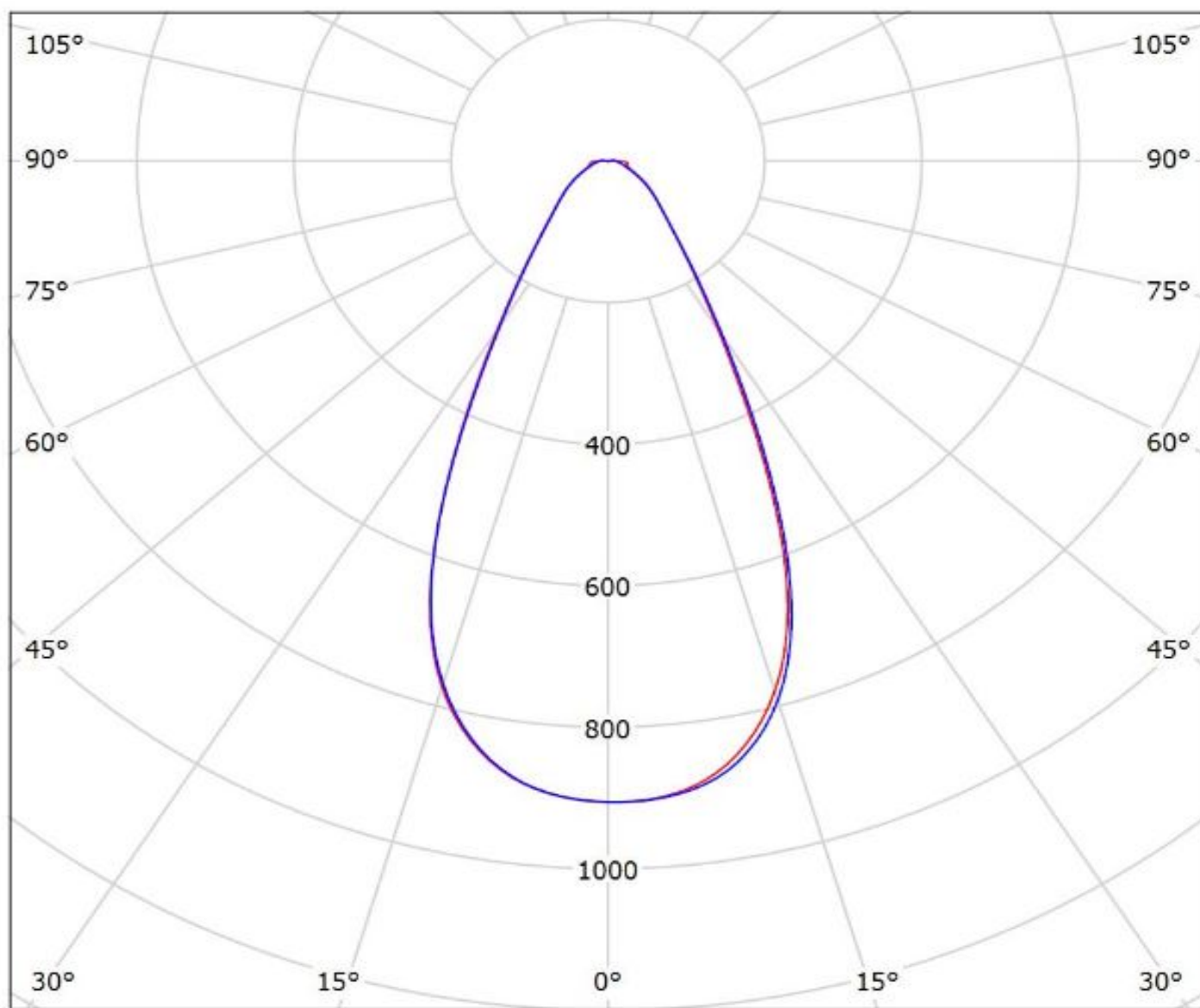
cd/klm

— C0 - C180 — C90 - C270

$\eta = 96\%$

Luminaire: Ledil C12361_HB-2X2-W_(Z8Y22plus)

Lamps: 1 x Seoul_Z8Y22plus_(W6E2G)_513.996lm@250mA_P=2.754W_I=0.250A



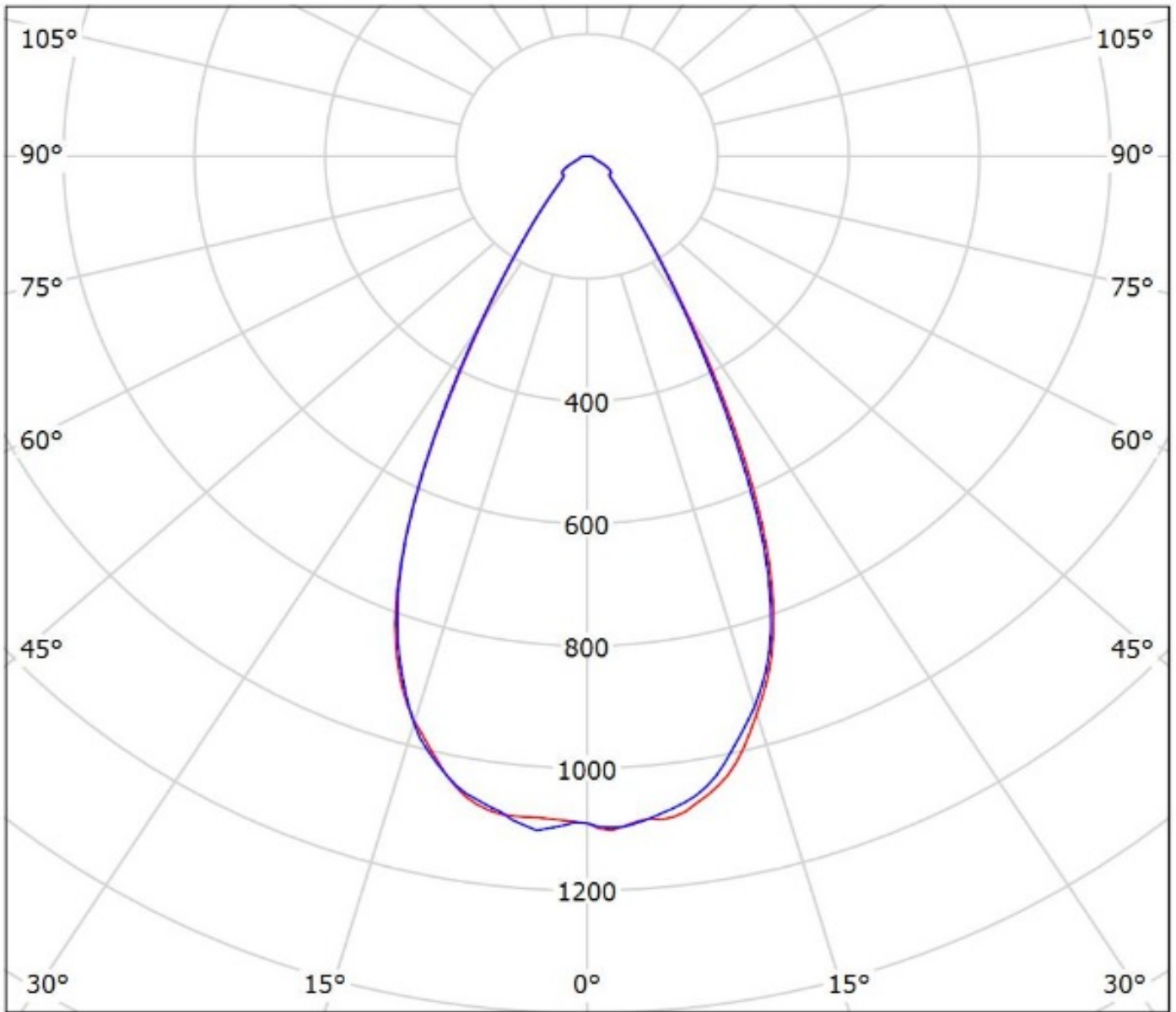
cd/klm

— C0 - C180

— C90 - C270

$\eta = 92\%$

Luminaire: Ledil Oy C12361_HB-2X2-W_(Acrich_MJT_4040)_SIMULATED
Lamps: 1 x Seoul Acrich MJT 4040



cd/klm

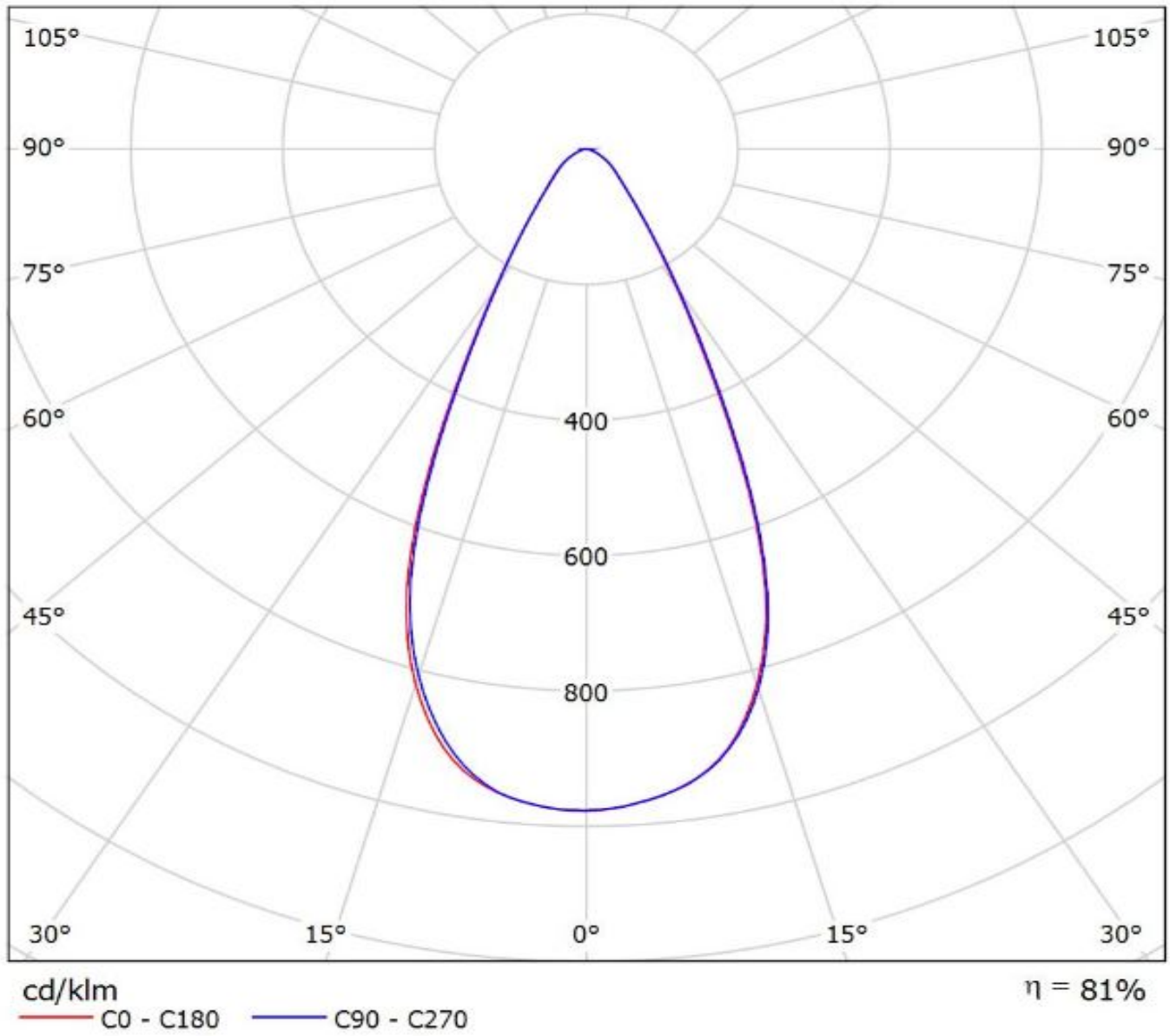
— C0 - C180 — C90 - C270

$\eta = 95\%$

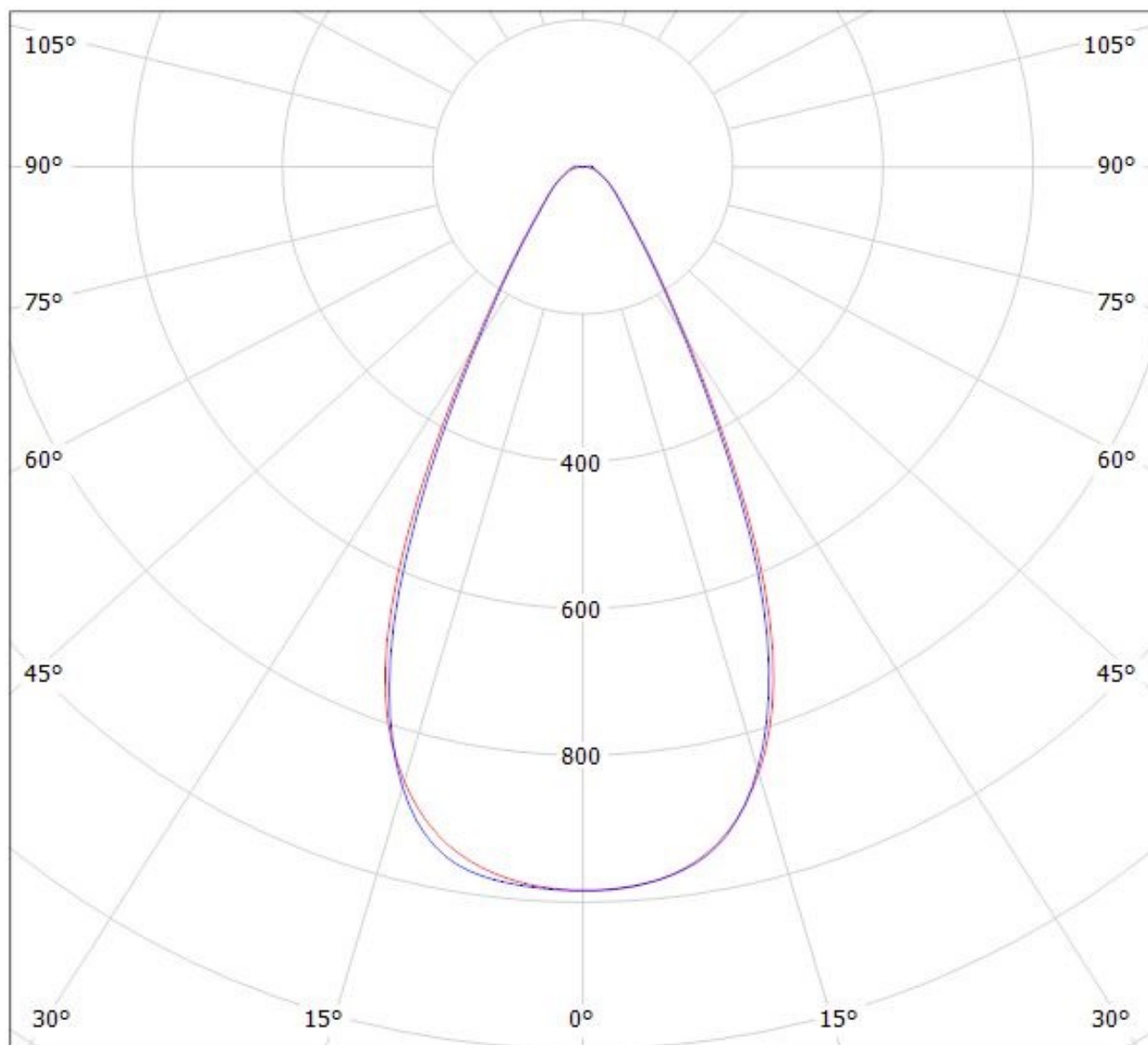
Ledil C12361_HB-2X2-W_(TL1L4) / LDC (Polar)

Luminaire: Ledil C12361_HB-2X2-W_(TL1L4)

Lamps: 1 x Toshiba_TL1L4_2x2_(TL1L4-DW0)_472.639lm@250mA_CCT=6500K_P=2.9W_I=0.25A



Luminaire: LEDiL Oy C12361_HB-2X2-W_(Tridonic_Module_RLE_G1)
Lamps: 1 x Tridonic_Module_RLE_G1_4576.03lm@700mA_P=32.0681W_I=0.700A

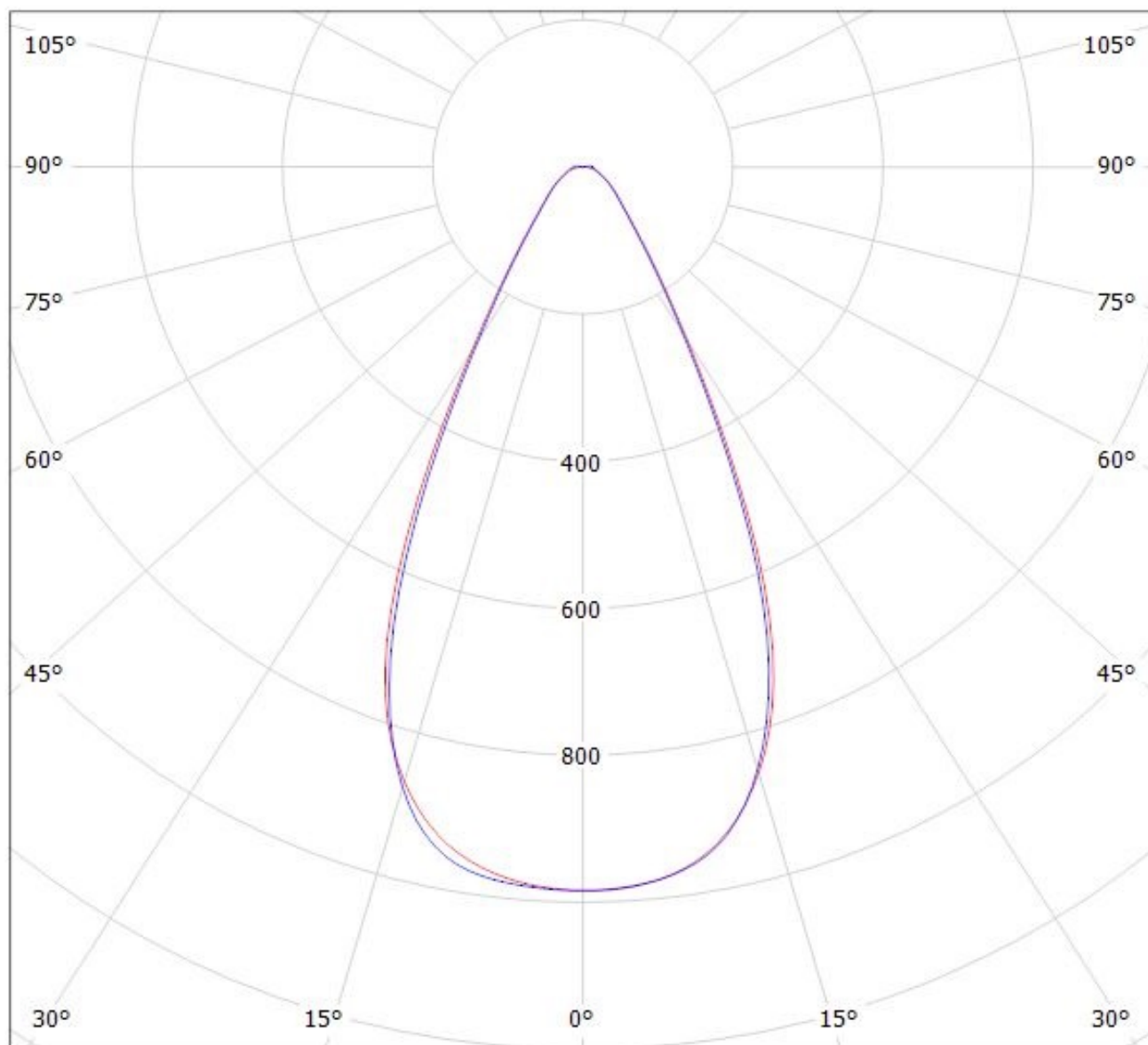


cd/klm

— C0 - C180 — C90 - C270

$\eta = 94\%$

Luminaire: LEDiL Oy C12361_HB-2X2-W_(Tridonic_Module_RLE_G1)
Lamps: 1 x Tridonic_Module_RLE_G1_4576.03lm@700mA_P=32.0681W_I=0.700A

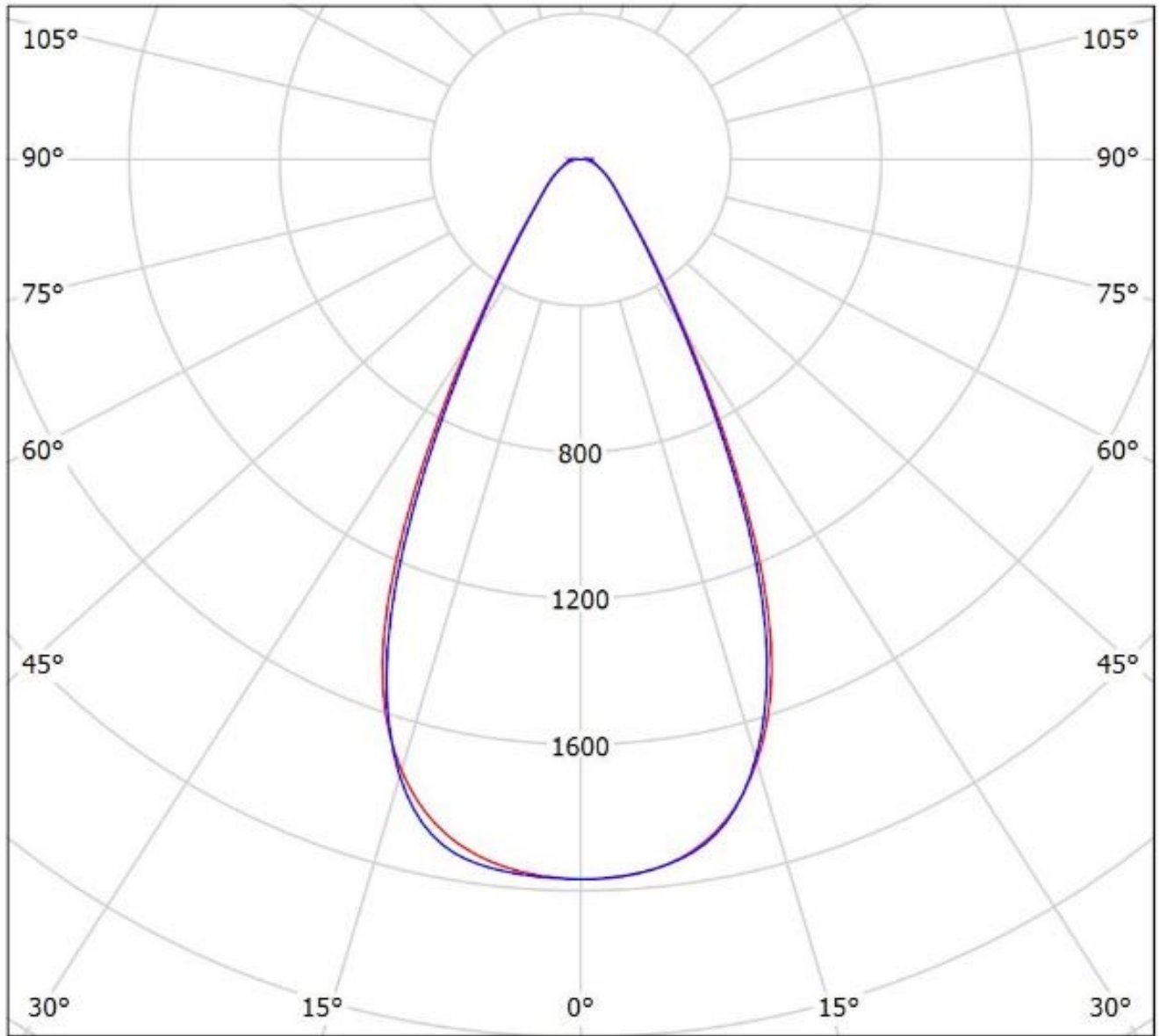


cd/klm

— C0 - C180 — C90 - C270

$\eta = 94\%$

Luminaire: LEDiL Oy C12361_HB-2X2-W_(Tridonic_Module_RLE_G1)
Lamps: 1 x Tridonic_Module_RLE_G1_2288lm@700mA_P=16W_I=0.700A

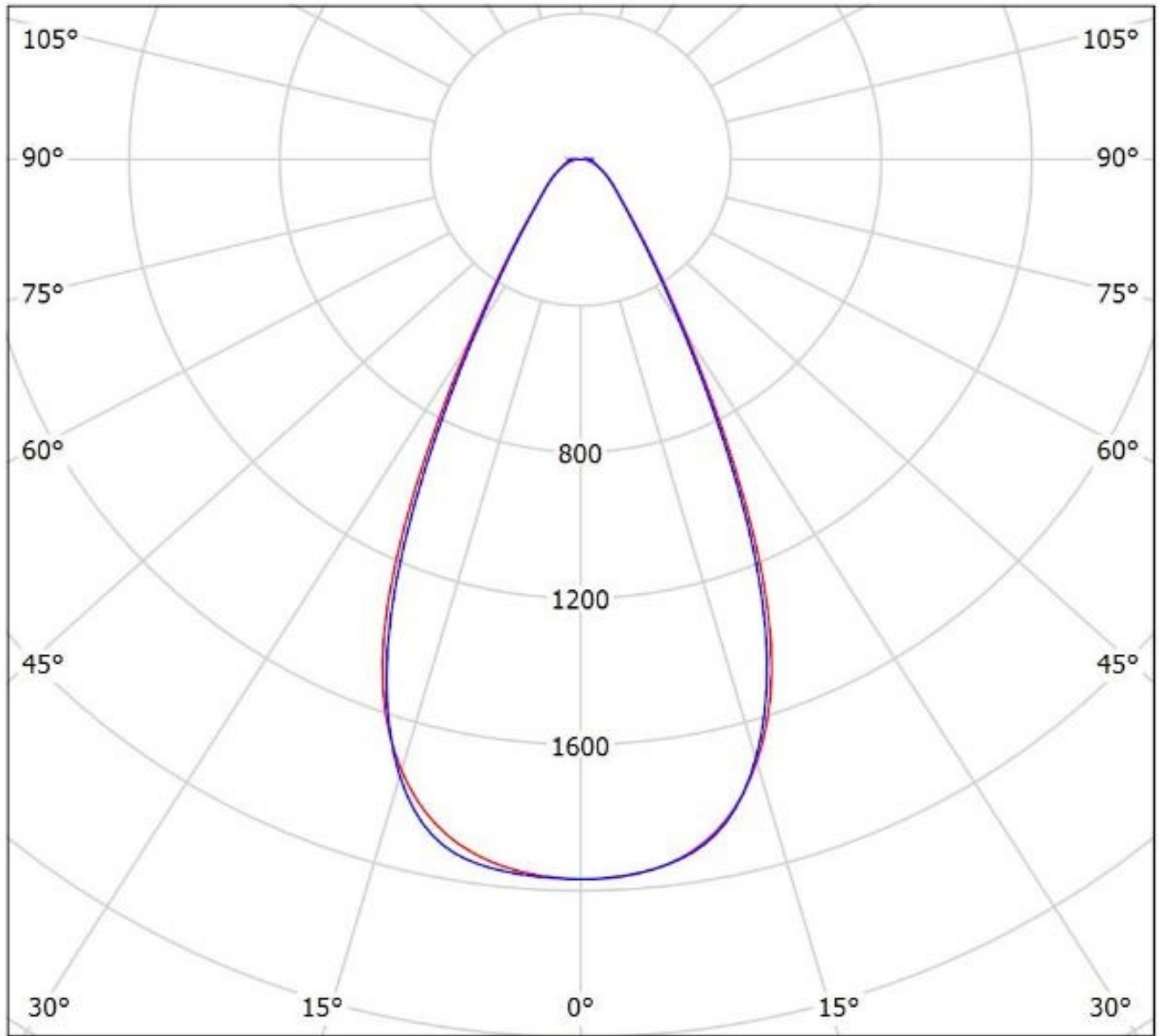


cd/klm

— C0 - C180 — C90 - C270

$\eta = 94\%$

Luminaire: LEDiL Oy C12361_HB-2X2-W_(Tridonic_Module_RLE_G1)
Lamps: 1 x Tridonic_Module_RLE_G1_2288lm@700mA_P=16W_I=0.700A



cd/klm

— C0 - C180 — C90 - C270

$\eta = 94\%$

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.