

DETAILS

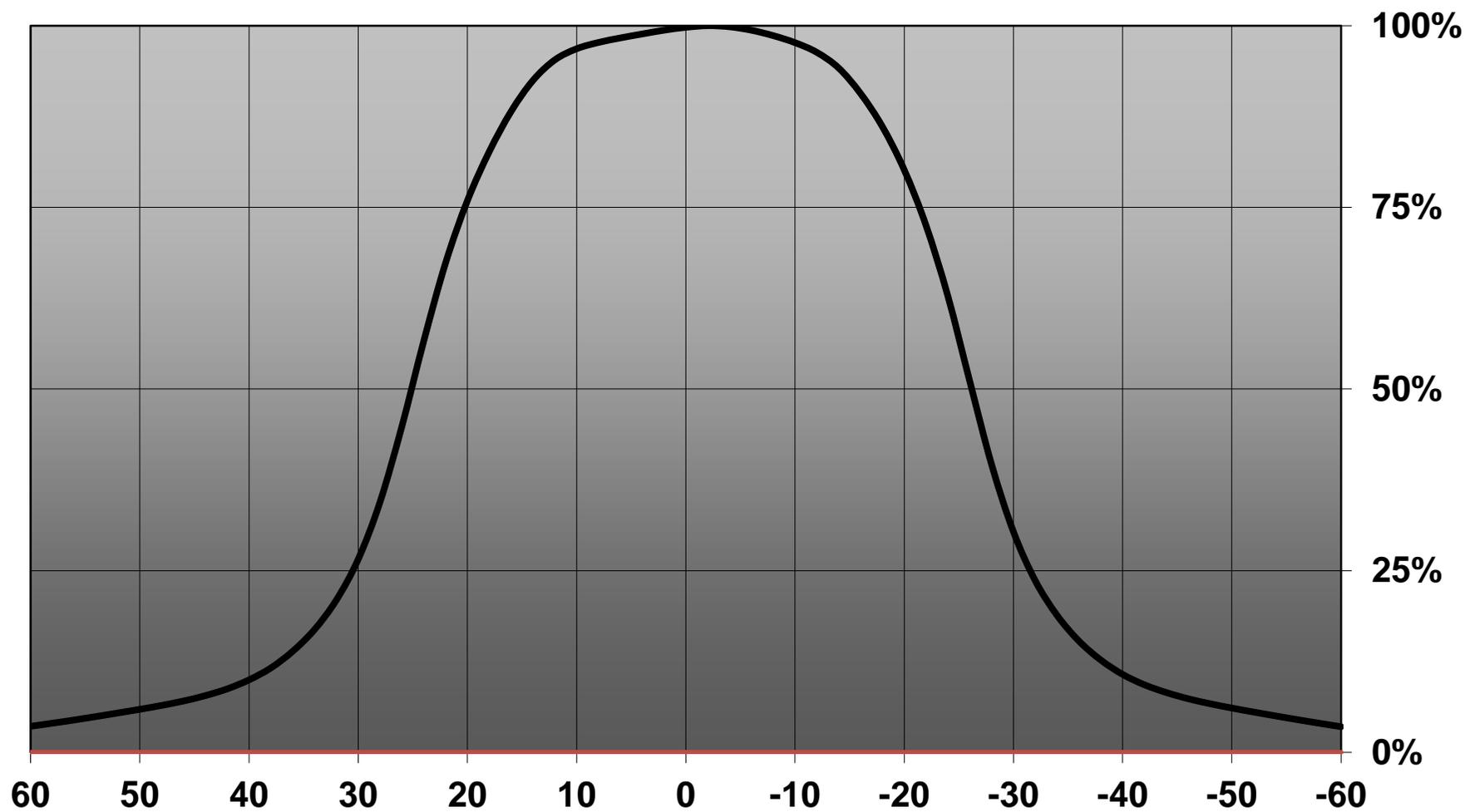
| | |
|------------------------|------------------|
| Product Number | C12361_HB-2X2-W |
| Family | High Bay |
| Type | Lens array |
| Color | clear |
| Diameter | 50x50 mm |
| Height | 8.5 mm |
| Style | square |
| Optic Material | PMMA |
| Holder Material | |
| Fastening | screw, pin, glue |
| Status | ready |
| ROHS Compliant | Yes |
| Date Updated | 16/04/2015 |



OPTICAL PROPERTIES

| LED | Viewing Angle | Light Beam | Efficiency | cd/lm | Connector |
|-------------------|---------------|------------|------------|------------|-----------|
| LUXEON MZ | sim: 50 | HighBay | sim: 85 % | sim: 1.100 | - |
| LUXEON H50-2 | sim: 52 | HighBay | sim: 91 % | sim: 4.700 | - |
| LUXEON A | sim: 52 | HighBay | - | - | - |
| XP-E-HEW | sim: | HighBay | - | - | - |
| XP-E | sim: 50 | HighBay | - | - | - |
| LUXEON Rebel | sim: 52 | HighBay | - | - | - |
| NVSxx19A | sim: 50 | HighBay | - | - | - |
| Duris S8 | sim: 56 | HighBay | sim: 86 % | sim: 1.000 | - |
| Oslon SSL 80 | 43 deg | HighBay | 89 % | 1.260 | - |
| LUXEON Z ES | 46 deg | HighBay | 87 % | 1.180 | - |
| Z5 | 48 deg | HighBay | 88 % | 1.000 | - |
| TL1L4 | 48 deg | HighBay | 81 % | 0.980 | - |
| XB-D | 48 deg | HighBay | 86 % | 0.960 | - |
| NCSxx19A | 48 deg | HighBay | 85 % | 1.100 | - |
| LH351A(3535) | 49 deg | HighBay | 89 % | 1.000 | - |
| LUXEON TX | 50 deg | HighBay | 88 % | 1.000 | - |
| LUXEON Q | 50 deg | HighBay | 86 % | 0.900 | - |
| NCSxx19B | 50 deg | HighBay | 85 % | 1.000 | - |
| LH351Z | 50 deg | HighBay | 87 % | 1.000 | - |
| XT-E | 50 deg | HighBay | 87 % | 0.970 | - |
| XP-G2 | 51 deg | HighBay | 88 % | 0.900 | - |
| Z5M1/Z5M2 | 51 deg | HighBay | 85 % | 1.000 | - |
| NVSxx19B/NVSxx19C | 51 deg | HighBay | 85 % | 0.960 | - |
| LUXEON Rebel ES | 51 deg | HighBay | 87 % | 0.940 | - |
| XP-G | 52 deg | HighBay | 88 % | 0.920 | - |

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



D

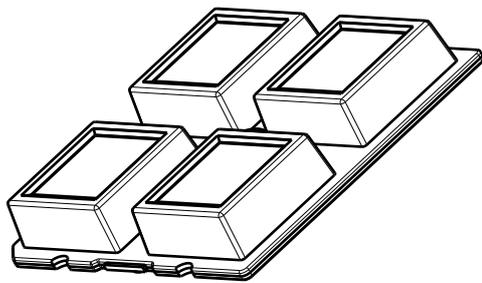
C

B

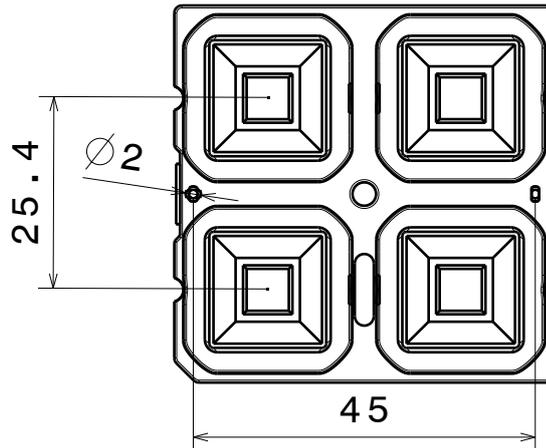
A

4

4



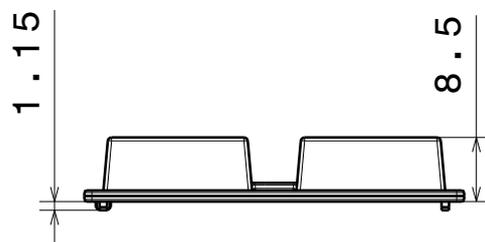
Isometric view



Bottom view

3

3



Front view

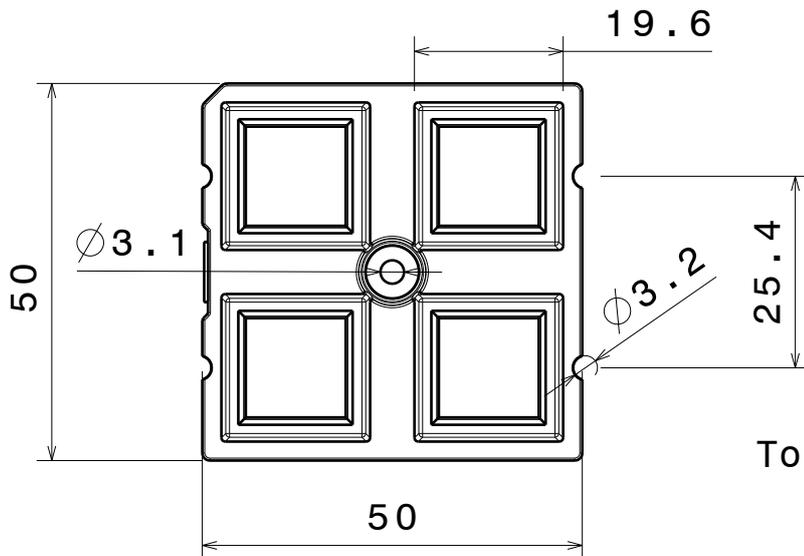
2

2

MATERIALS
Lens: PMMA

M3 screw
recommended for
fastening

Fastening also
with glue



Top view

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 LediL Oy
Salorankatu 10
FIN 24240 SALO
Finland

THIRD ANGLE PROJECTION:

DRAWING TITLE
Datasheet HB-2x2 Lens module

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

| | |
|-----------|---------------|
| SIZE | PART NUMBER |
| A4 | C12361 |

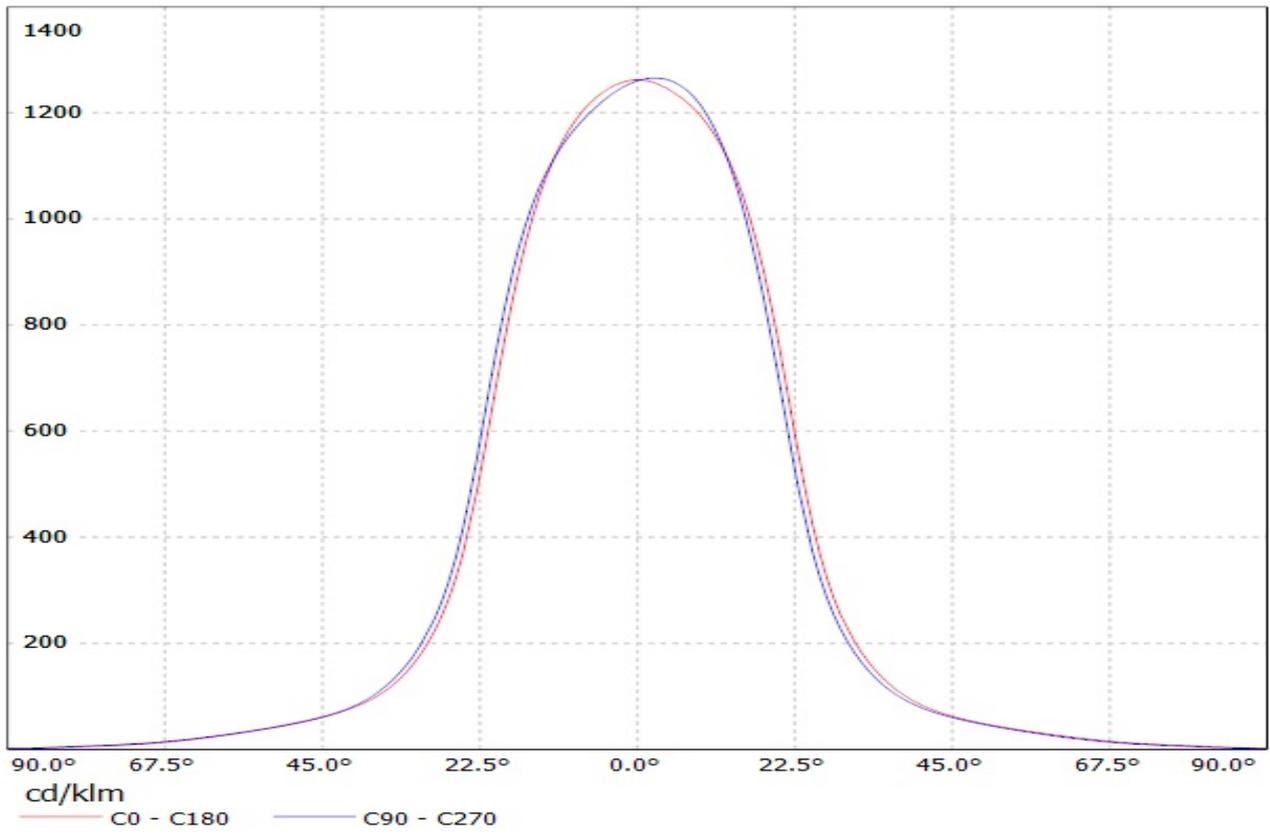
| | | | | | |
|-------|-----|--------|---|-------|-----|
| SCALE | 1:1 | WEIGHT | - | SHEET | 1/1 |
|-------|-----|--------|---|-------|-----|

D

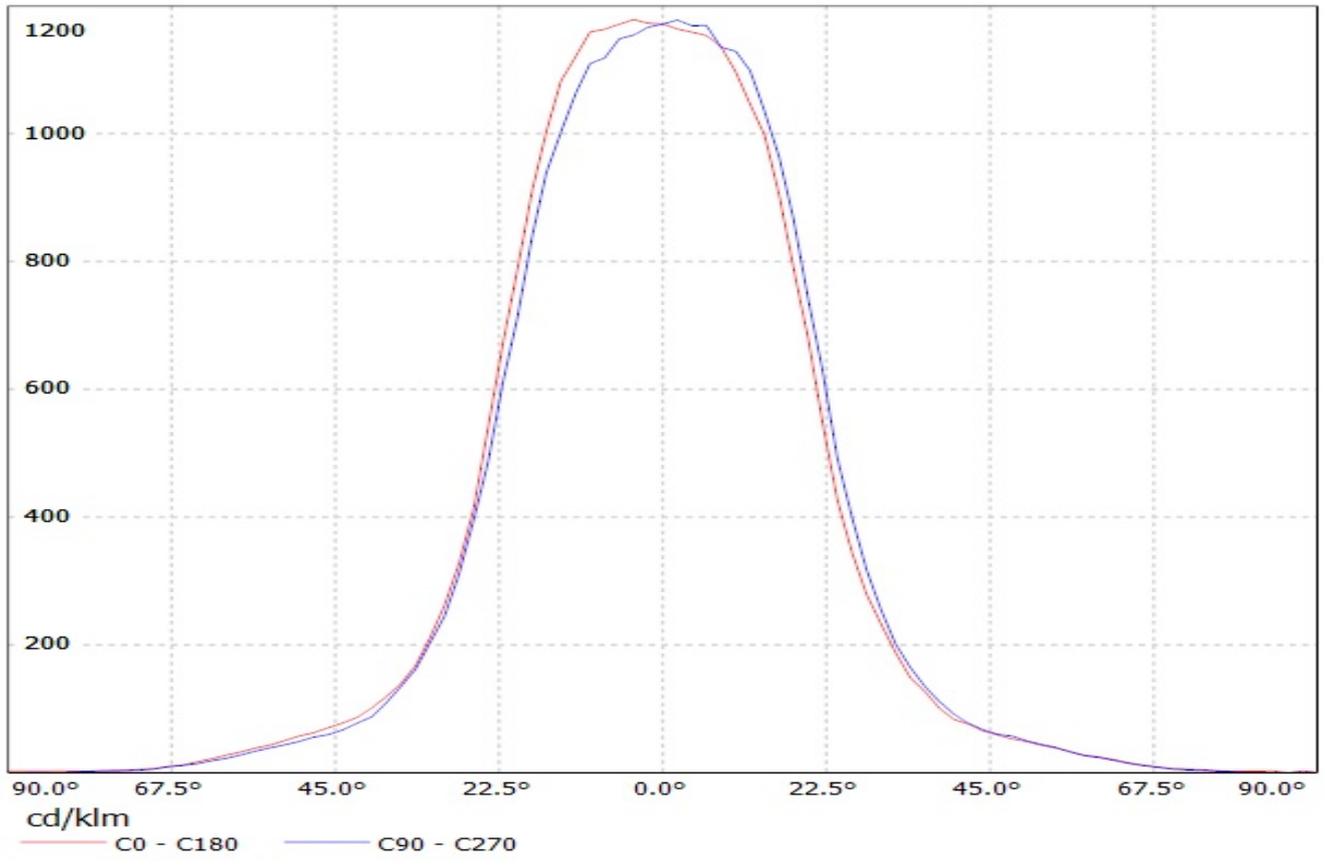
A

1

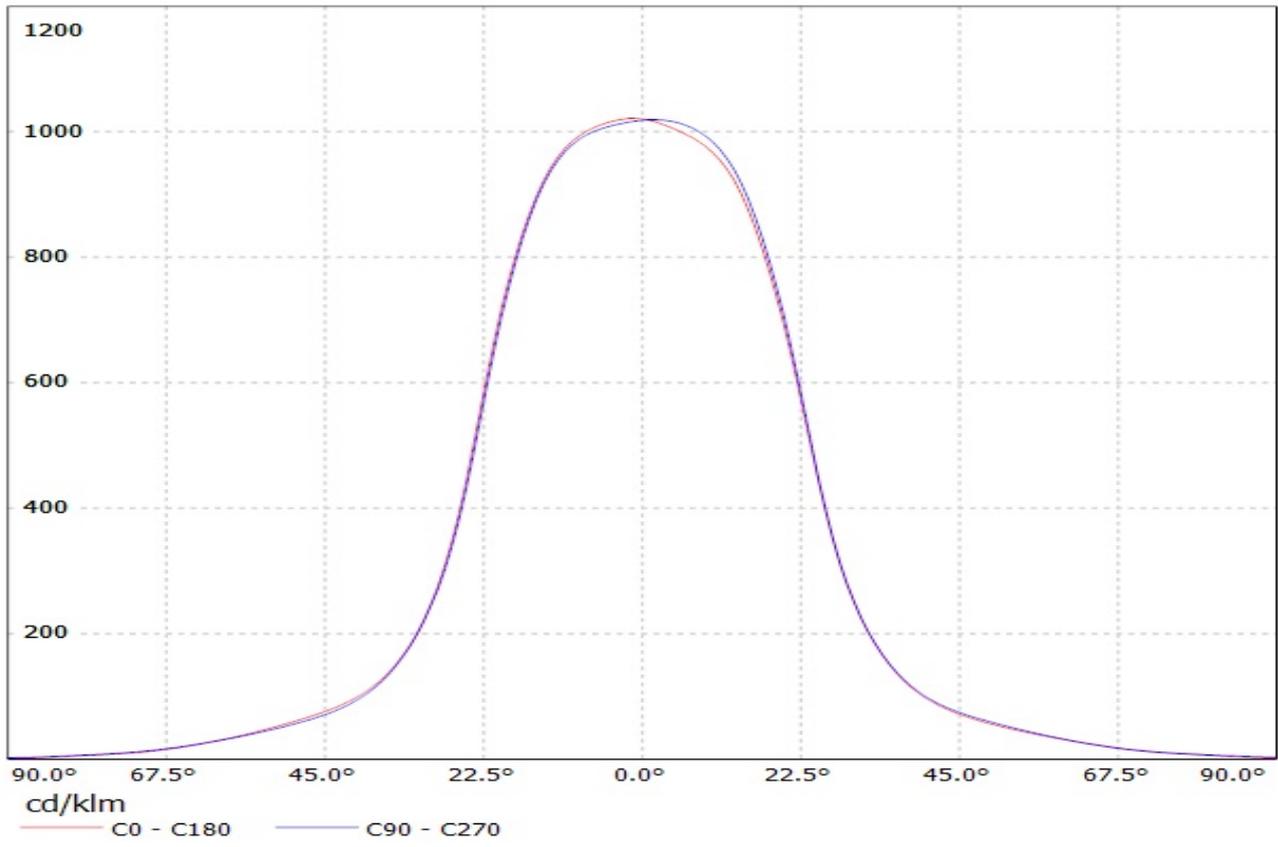
Luminaire: LEDIL OY C12361_HB-2X2 (SSL80) Efficiency=89%
Lamps: 1 x Osram SSL80 (340lm @ 250mA)



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



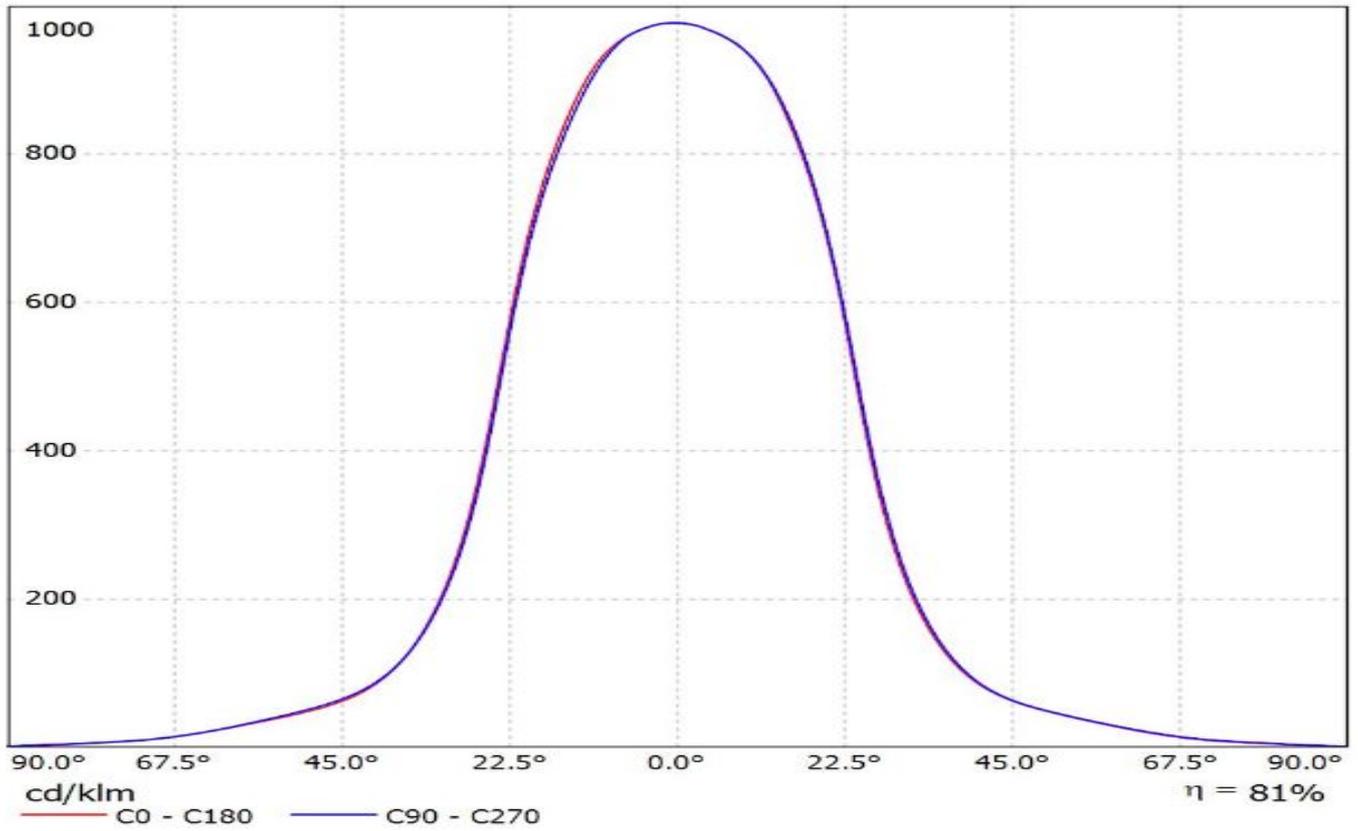
Luminaire: LEDIL OY C12361_HB-2X2 (Z5) Efficiency=88%
Lamps: 1 x Seoul Z5 (290lm @ 250mA)



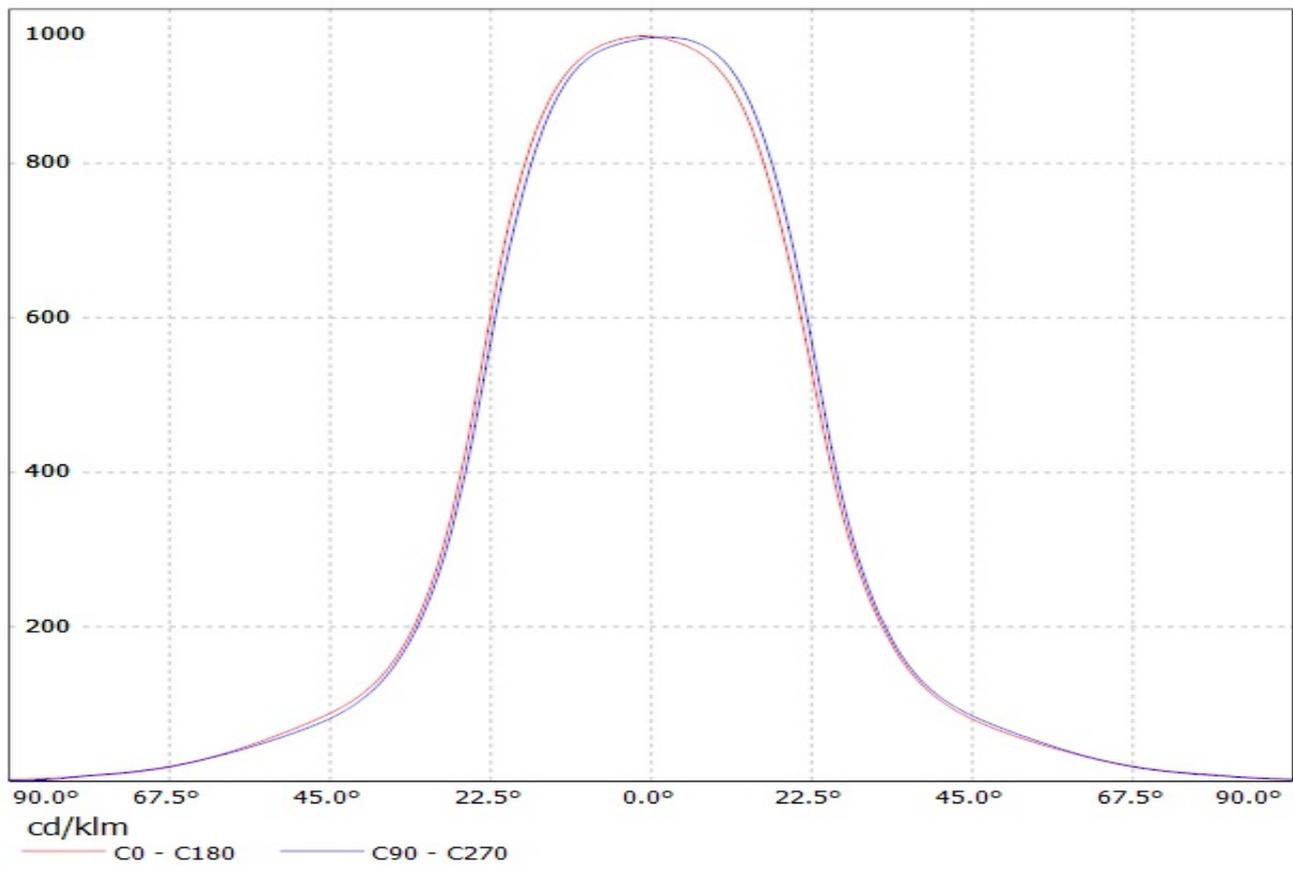
Ledil C12361_HB-2X2-W_(TL1L4) / LDC (Linear)

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

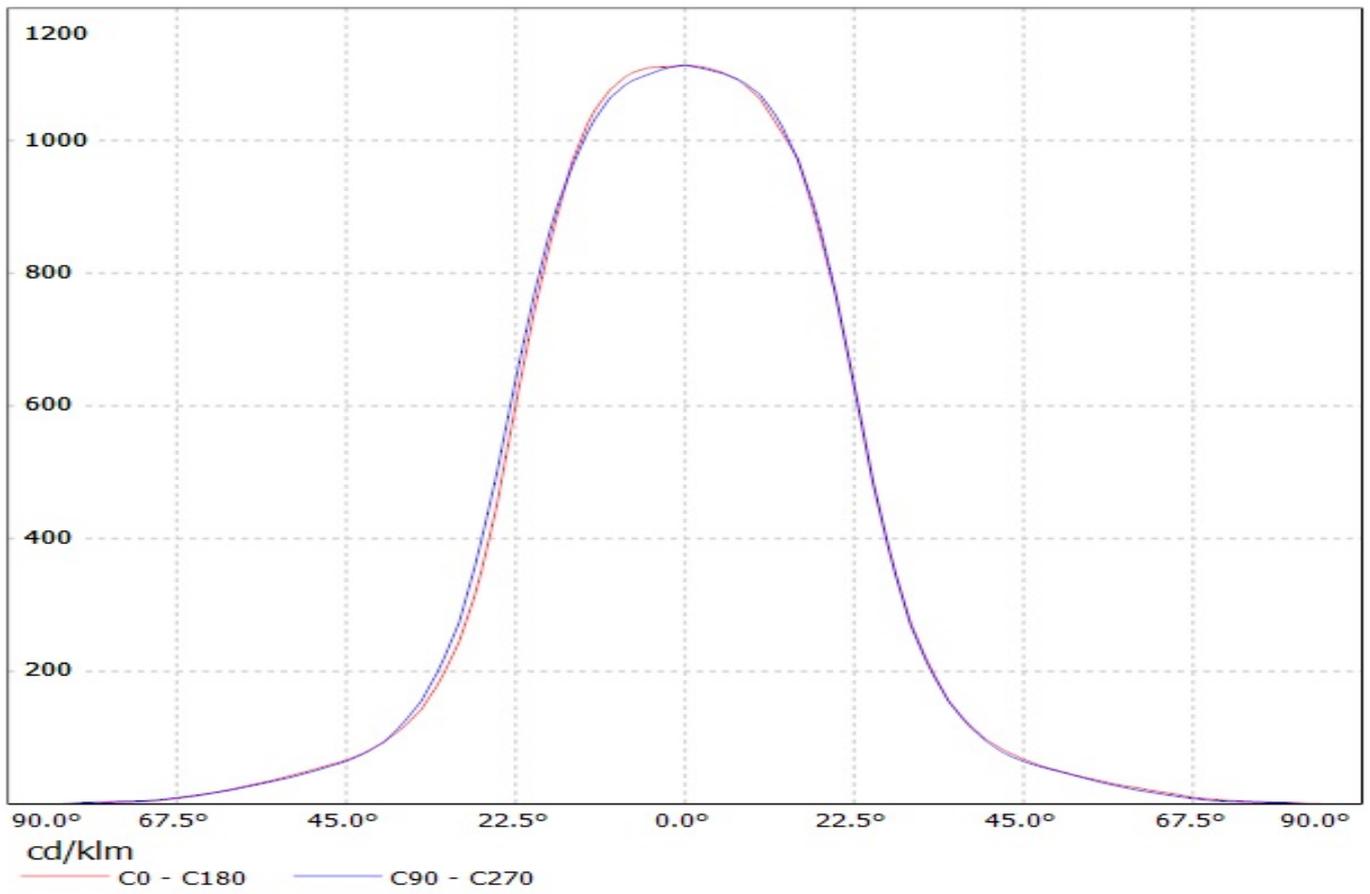
Lamps: 1 x Toshiba_TL1L4_2x2_(TL1L4-DW0)_472.639lm@250mA_CCT=6500K_P=2.9W_I=0.25A



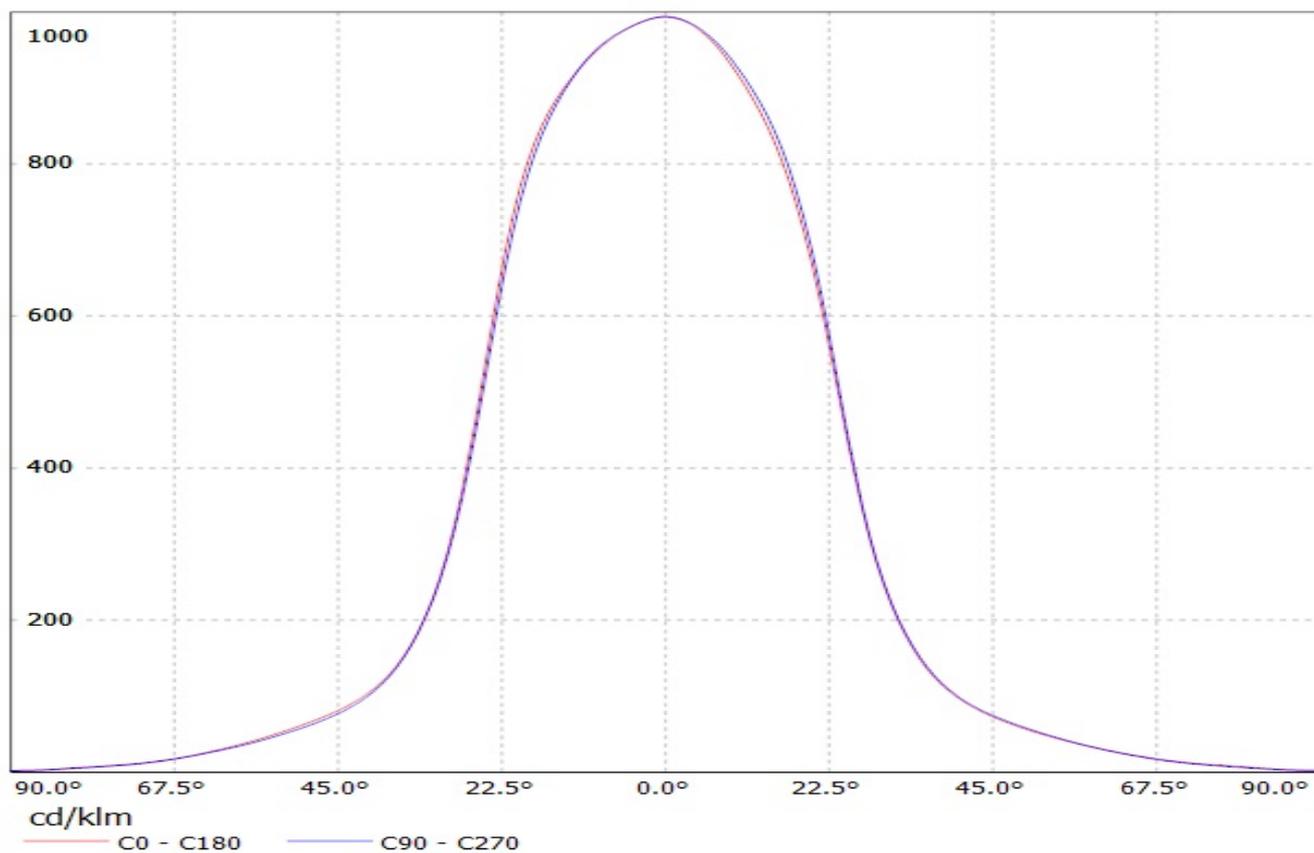
Luminaire: LEDIL OY C12361_HB-2X2 (XB-D) Efficiency=86%
Lamps: 1 x Cree XB-DE (371lm @ 250mA)



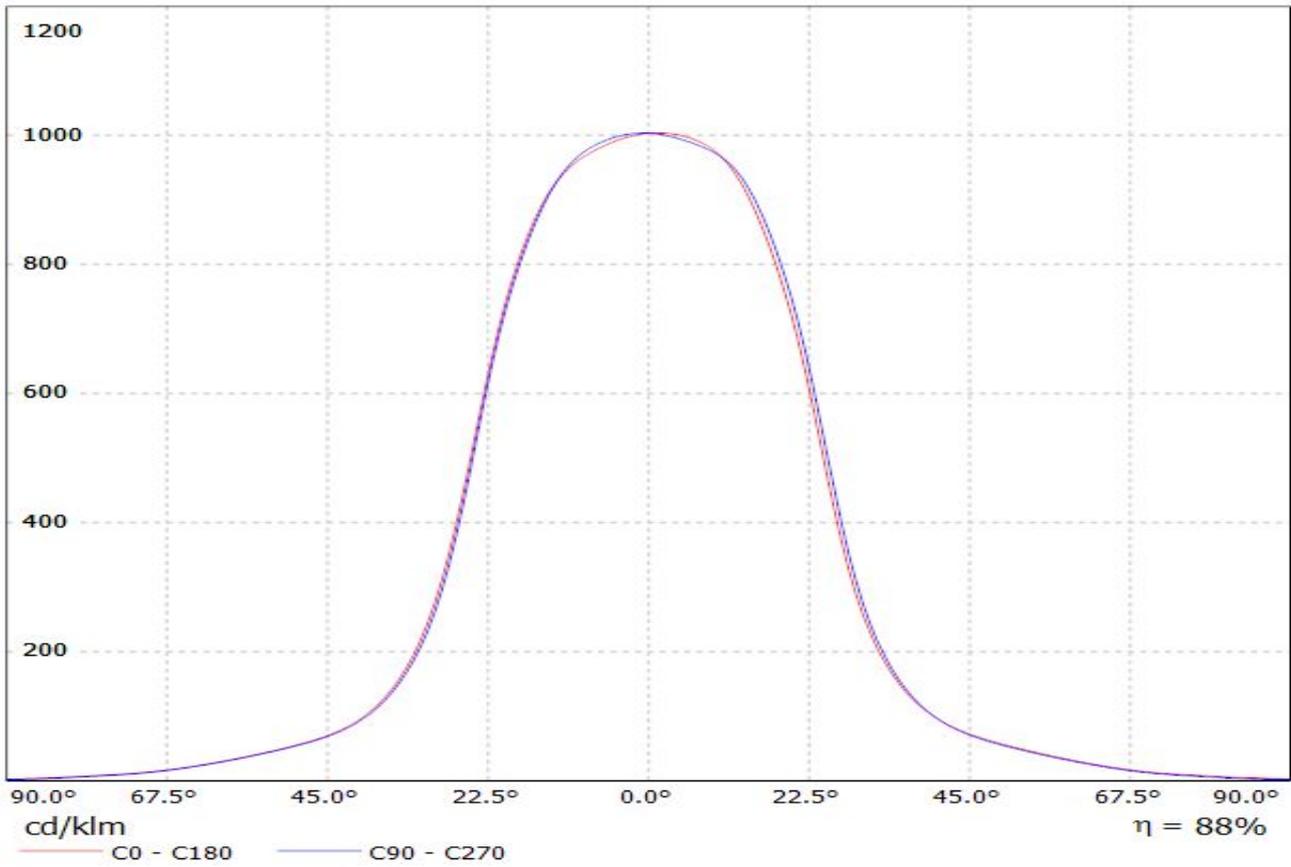
Luminaire: LEDil Oy C12361_HB-2x2-W_(NCSxx19A) Efficiency=85%
Lamps: 1 x Nichia NCSL119AT-H1) 229lm @ 250mA CCT=2800K P=3.1W I=250mA



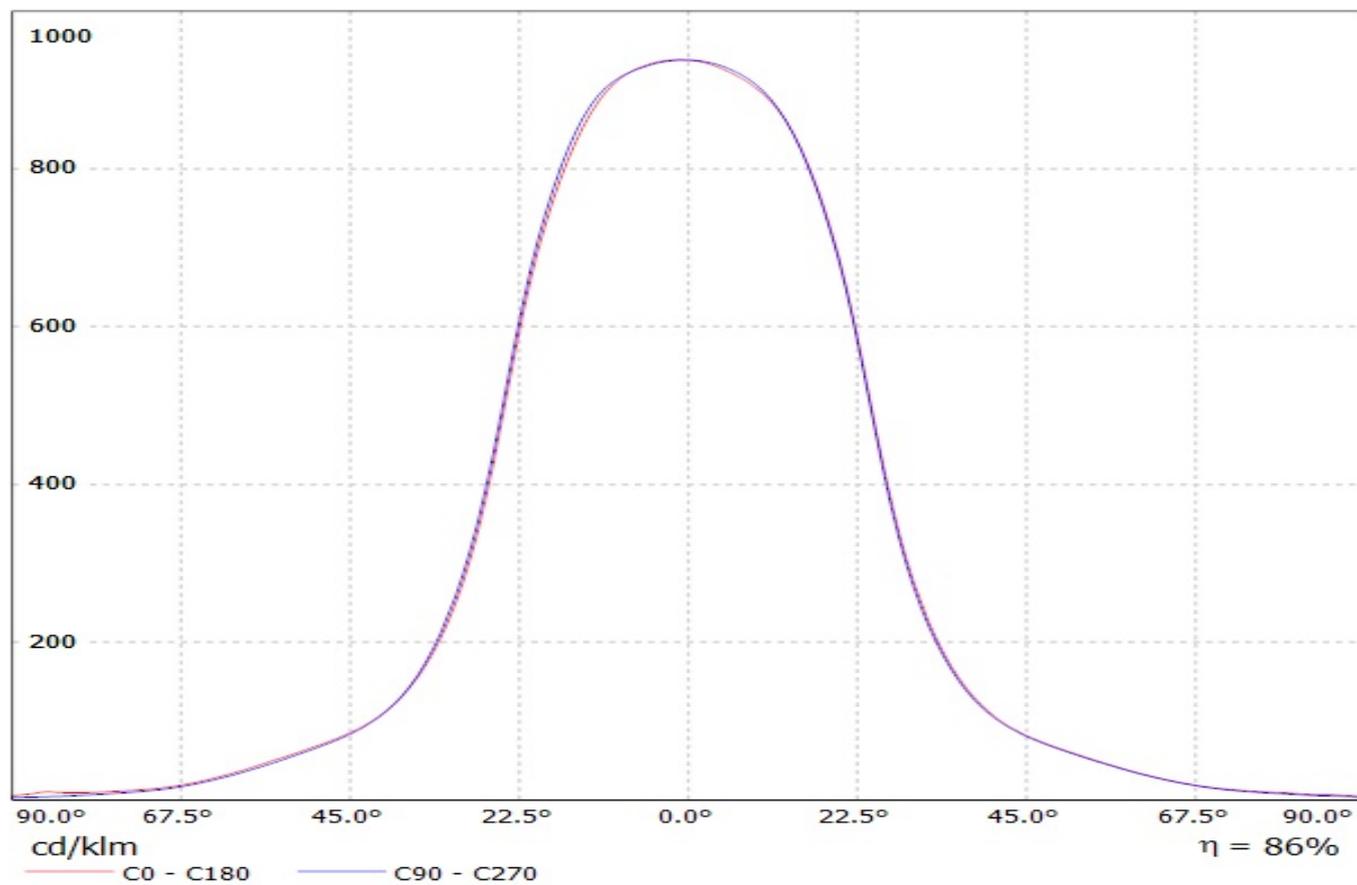
Luminaire: LEDIL OY C12361_HB-2X2 (3535) Efficiency=89%
Lamps: 1 x SAmSung 3535 (353lm @ 250mA)



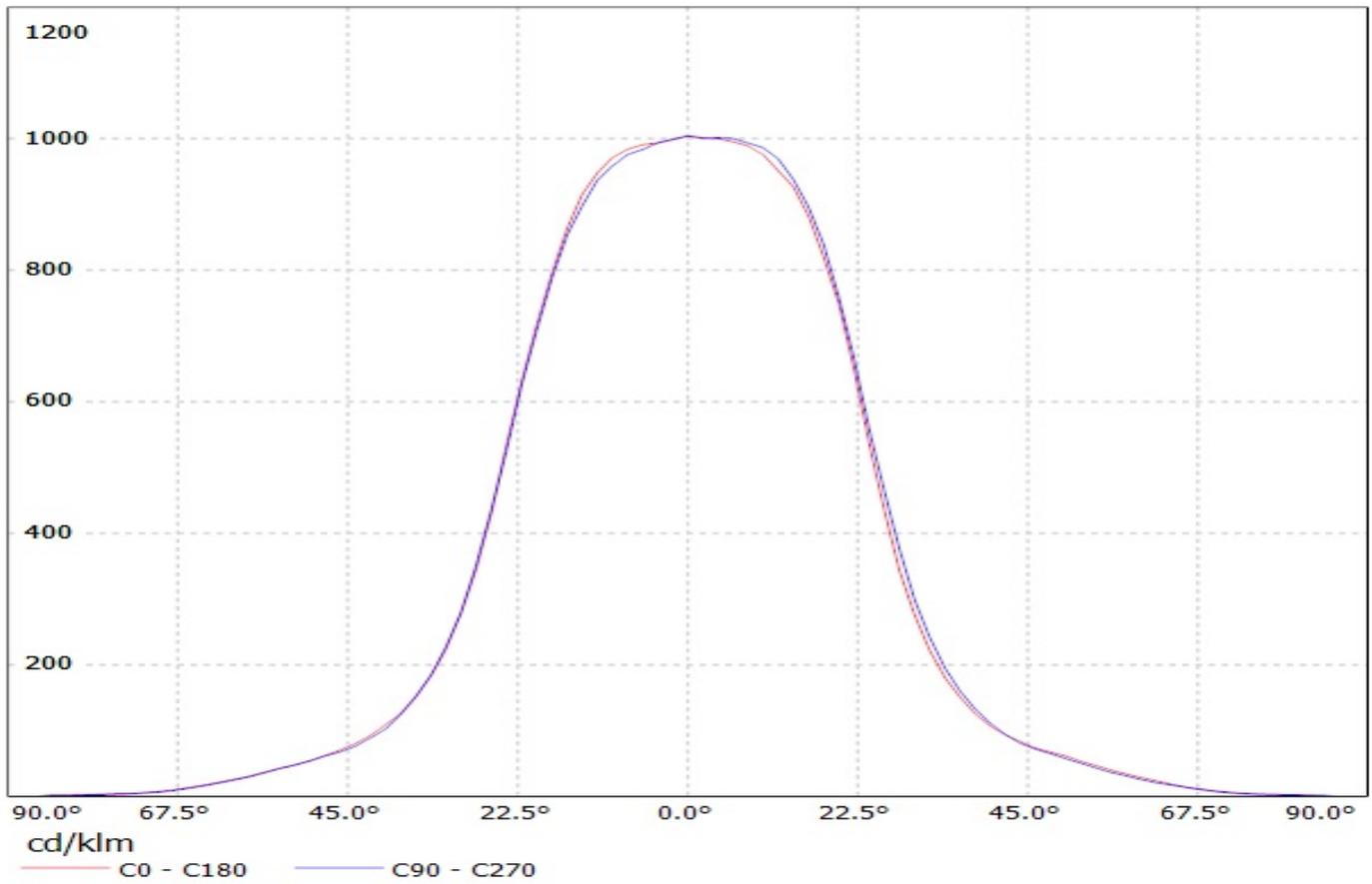
Luminaire: LEDiL Oy C12361_HB-2X2-W_(Luxeon_TX) Eff.87.5%
Lamps: 1 x Luxeon_TX_2x2_320.412lm@250mA_P=2.79013W_I=249.9mA



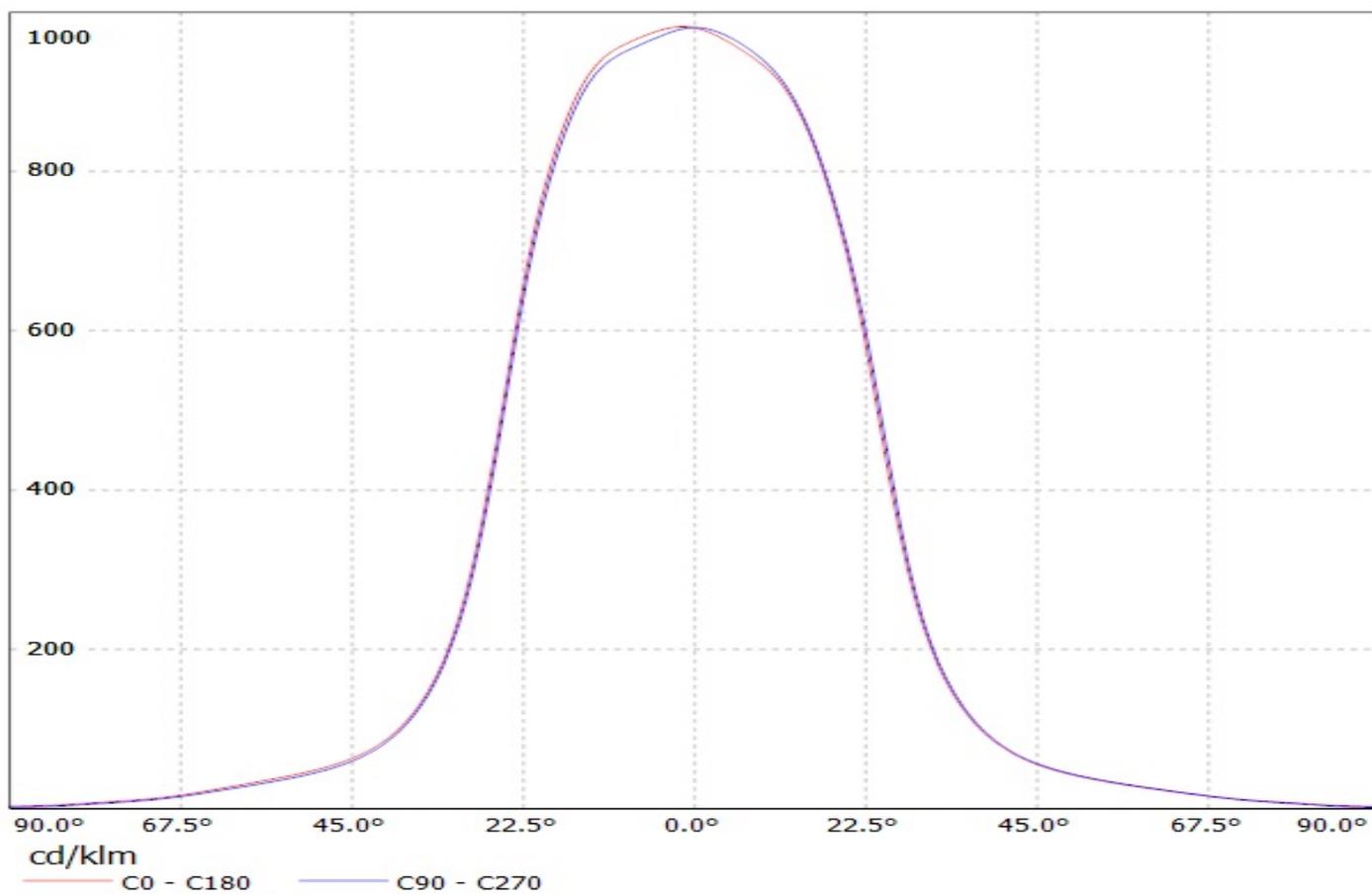
Luminaire: LEDiL Oy C12361_HB-2X2-W_(LUXEON_Q) Eff.86.3%
Lamps: 1 x LUXEON_Q_2x2_(LHQ-3080)_298.363lm@250mA_P=2.87385W_I=249.9mA



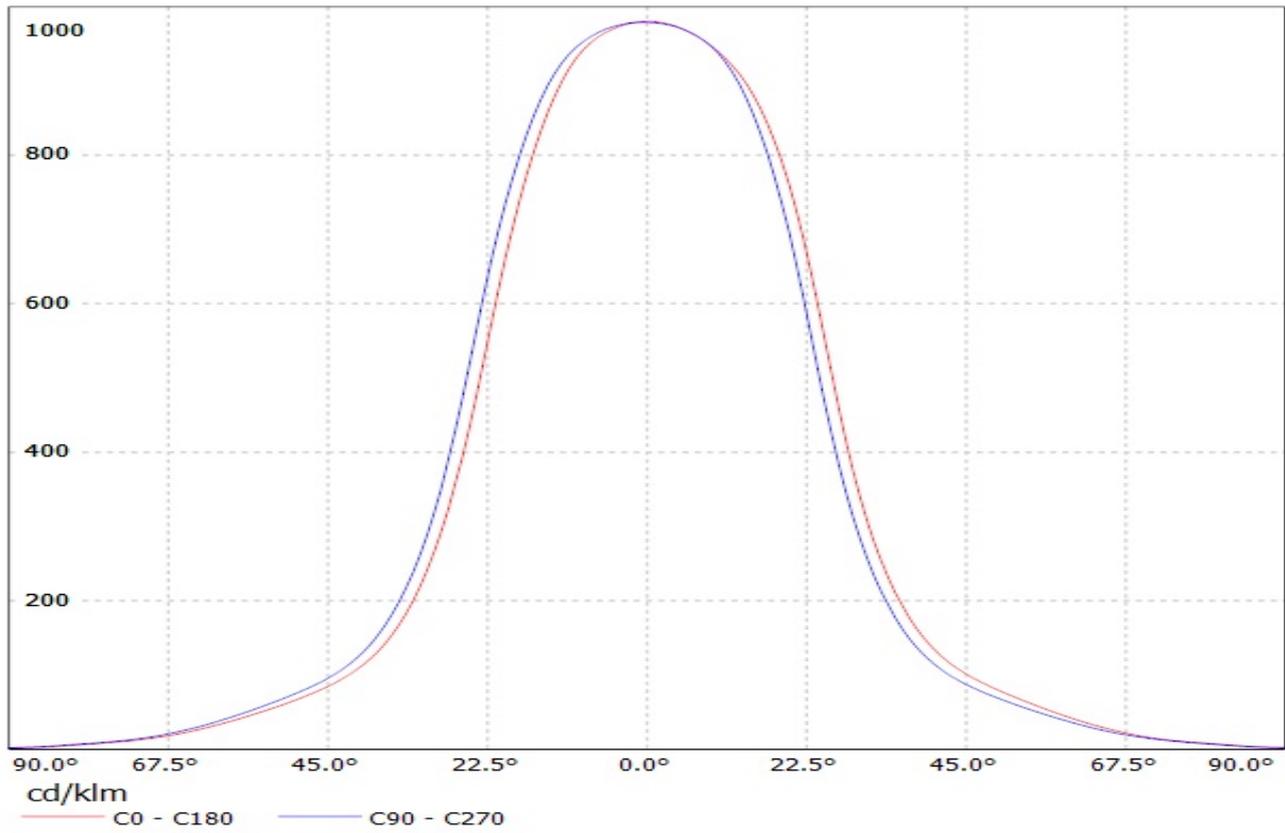
Luminaire: LEDil Oy C12361_HB-2x2-W_(NCSxx19B) Efficiency=85%
Lamps: 1 x Nichia NCSxx19b (NCSW119BE) 425lm @ 250mA CCT=5400K P=3.1W I=250mA



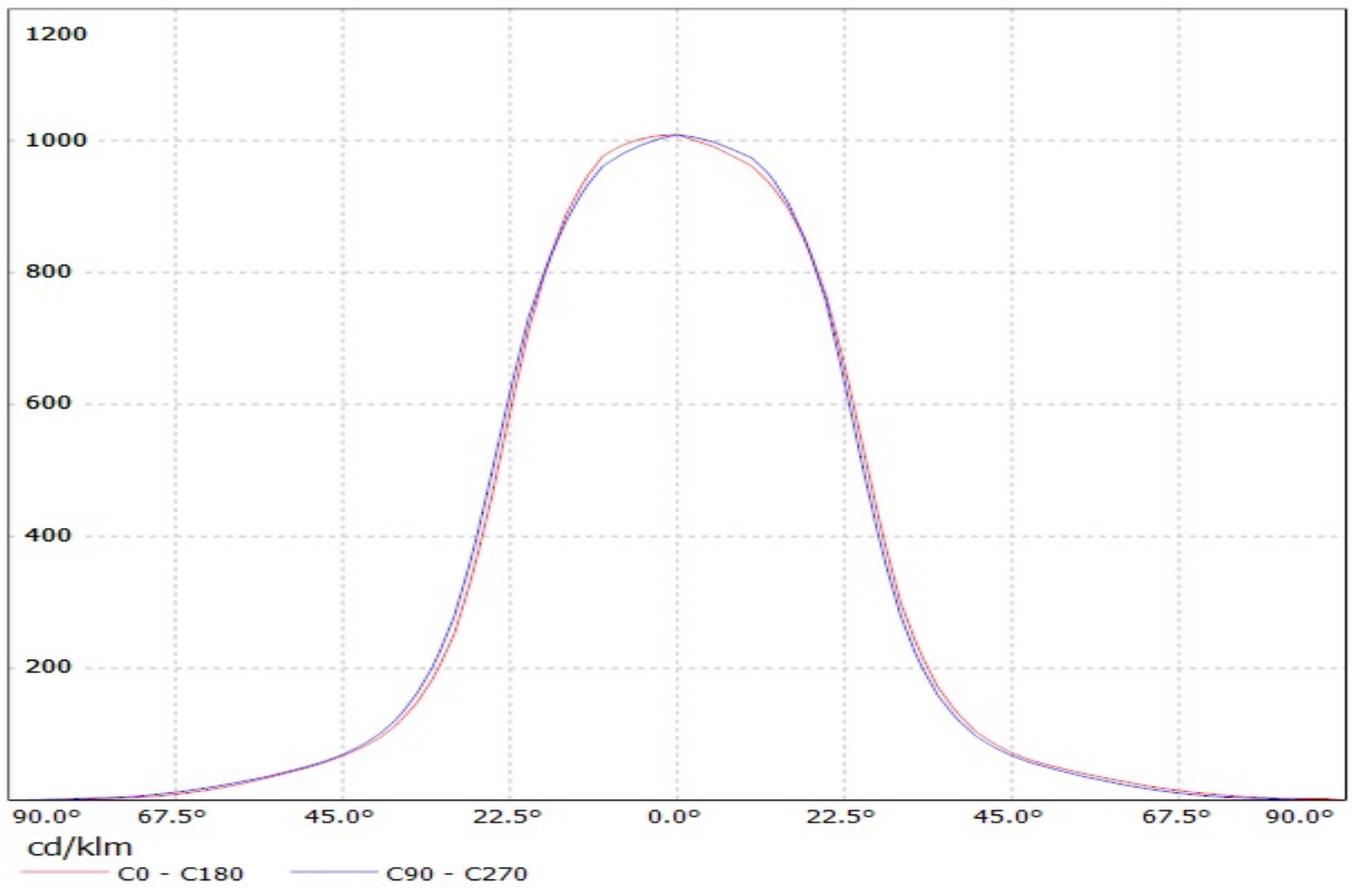
Luminaire: LEDiL Oy C12361_HB-2X2-W_(LH351Z) Eff.87.4%
Lamps: 1 x SAMSUNG_LH351Z_2x2_359.49lm@250mA_P=2.86371W_I=249.8mA



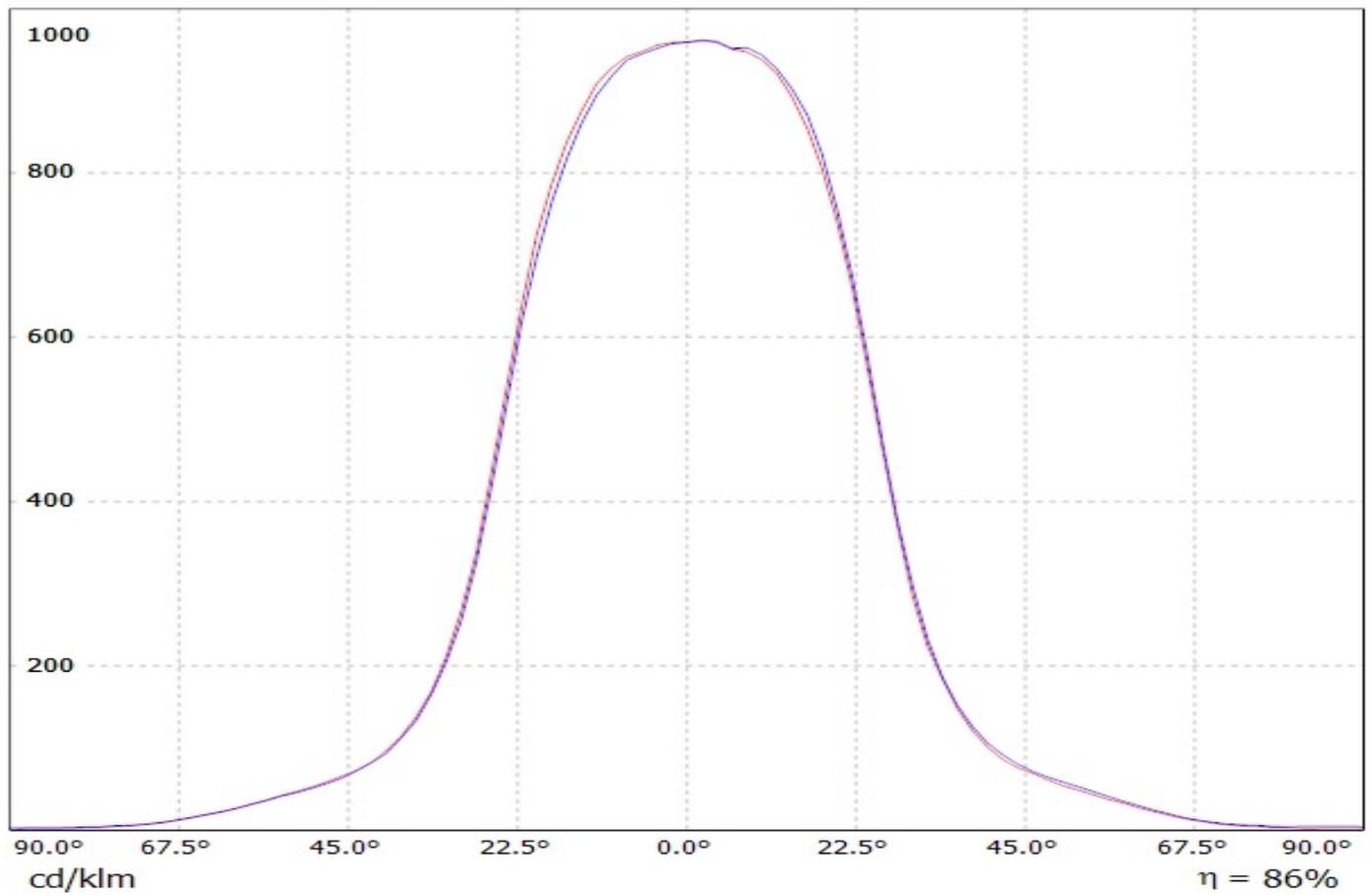
Luminaire: LEDIL OY C12361_HB-2X2 (XT-E AWT) Efficiency=89%
Lamps: 1 x Cree XT-E AWT (390lm@250mA)



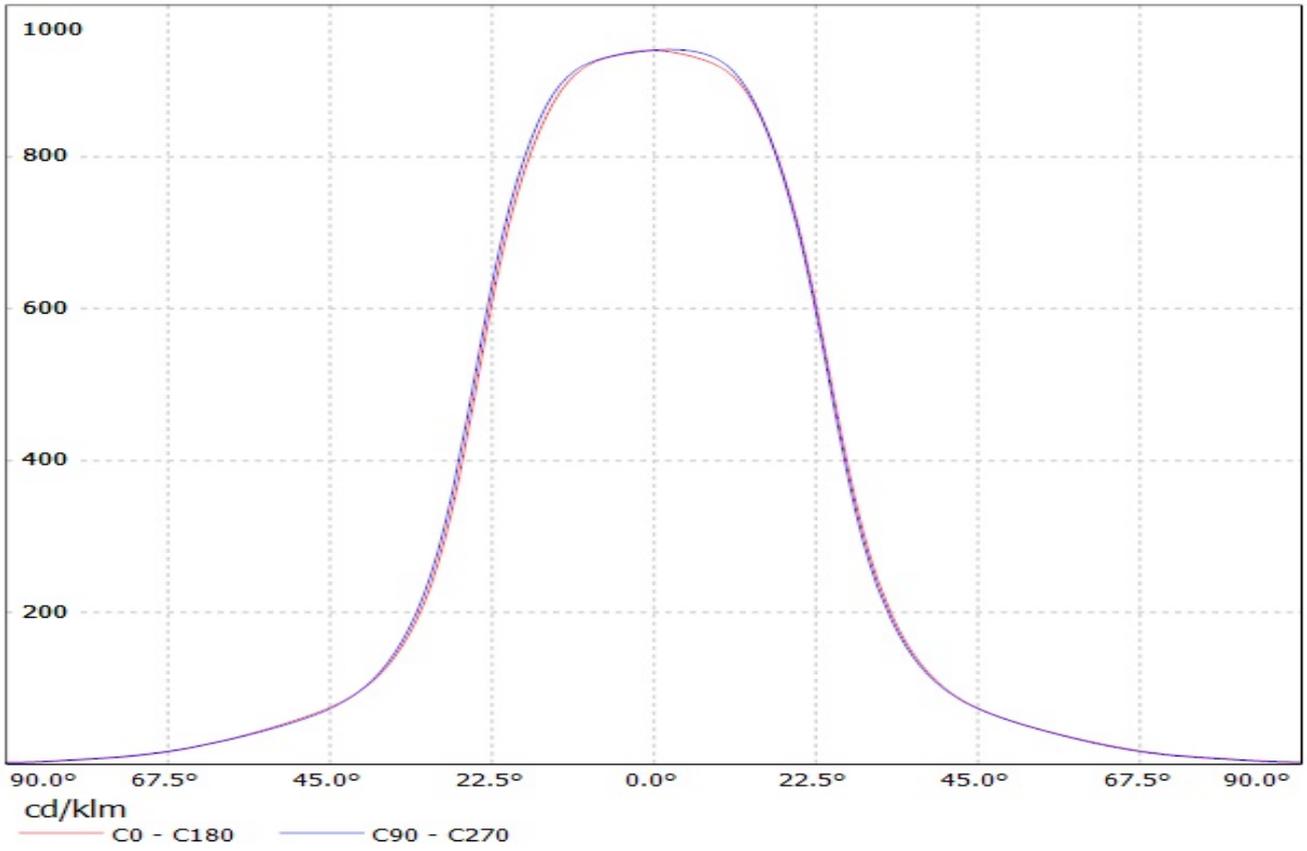
Luminaire: LEDil Oy C12361_HB-2X2-W_(Z5M1) Efficiency=85%
Lamps: 1 x Seoul Z5M1 (SZ5-M1-WN-C8) 379lm @ 250mA CCT=4600K P=2.9W I=250mA



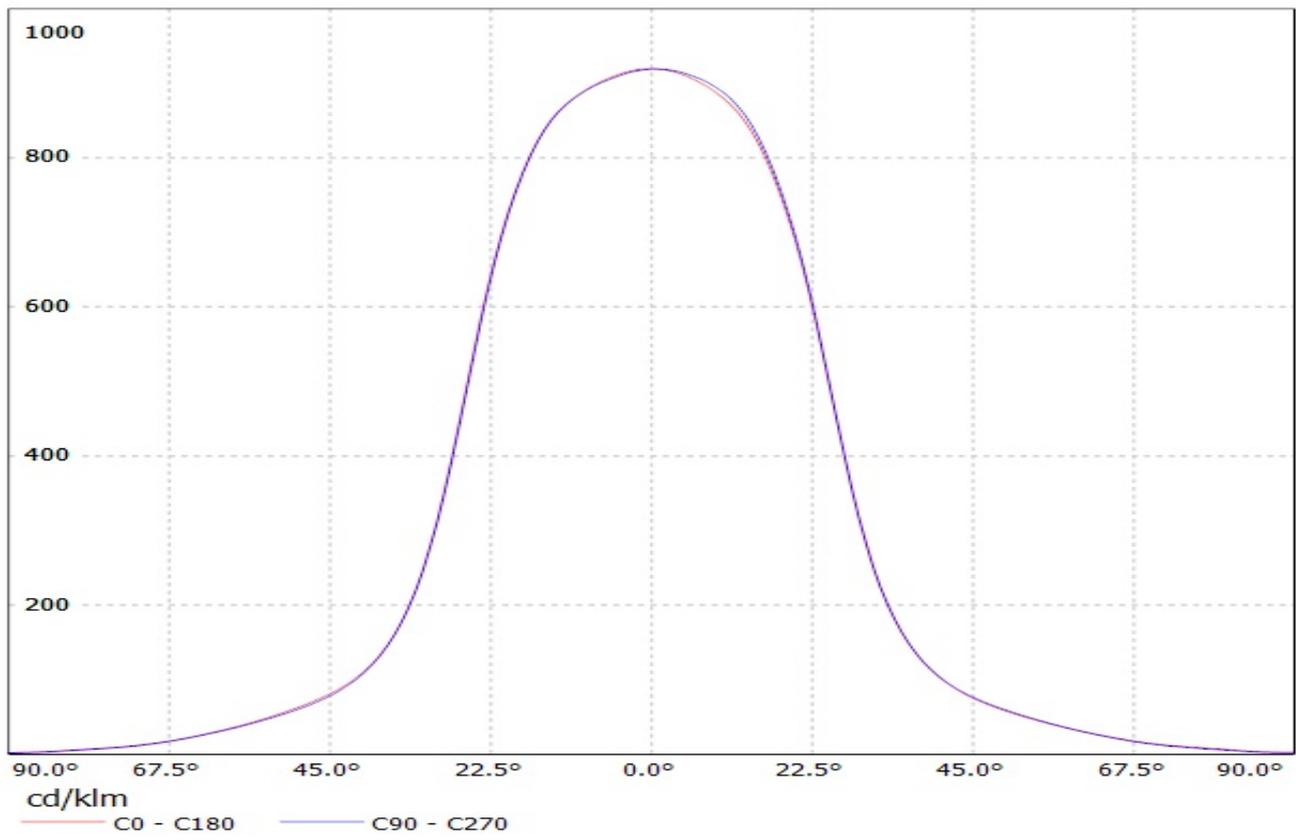
Luminaire: Ledil Oy C12361_HB-2X2-W_(NVS19B) Efficiency=85%
Lamps: 1 x Nichia NVS19B (NVSL219BE) 308lm @ 250mA CCT= P=2.89W I=250mA



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

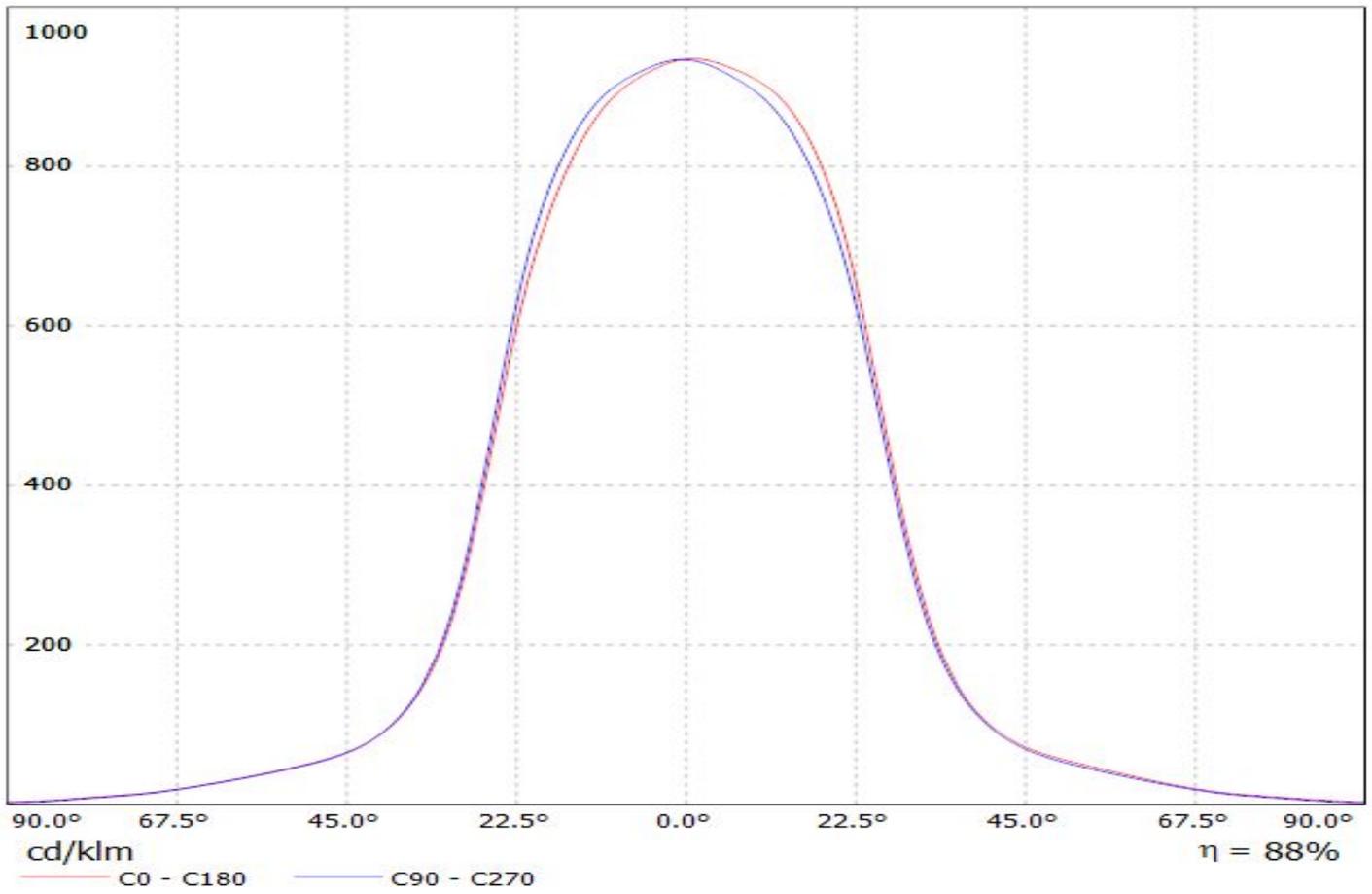


Luminaire: LEDIL OY C12361_HB-2X2 (XP-G) Efficiency=88%
Lamps: 1 x Cree XP-G (257lm @ 250mA)

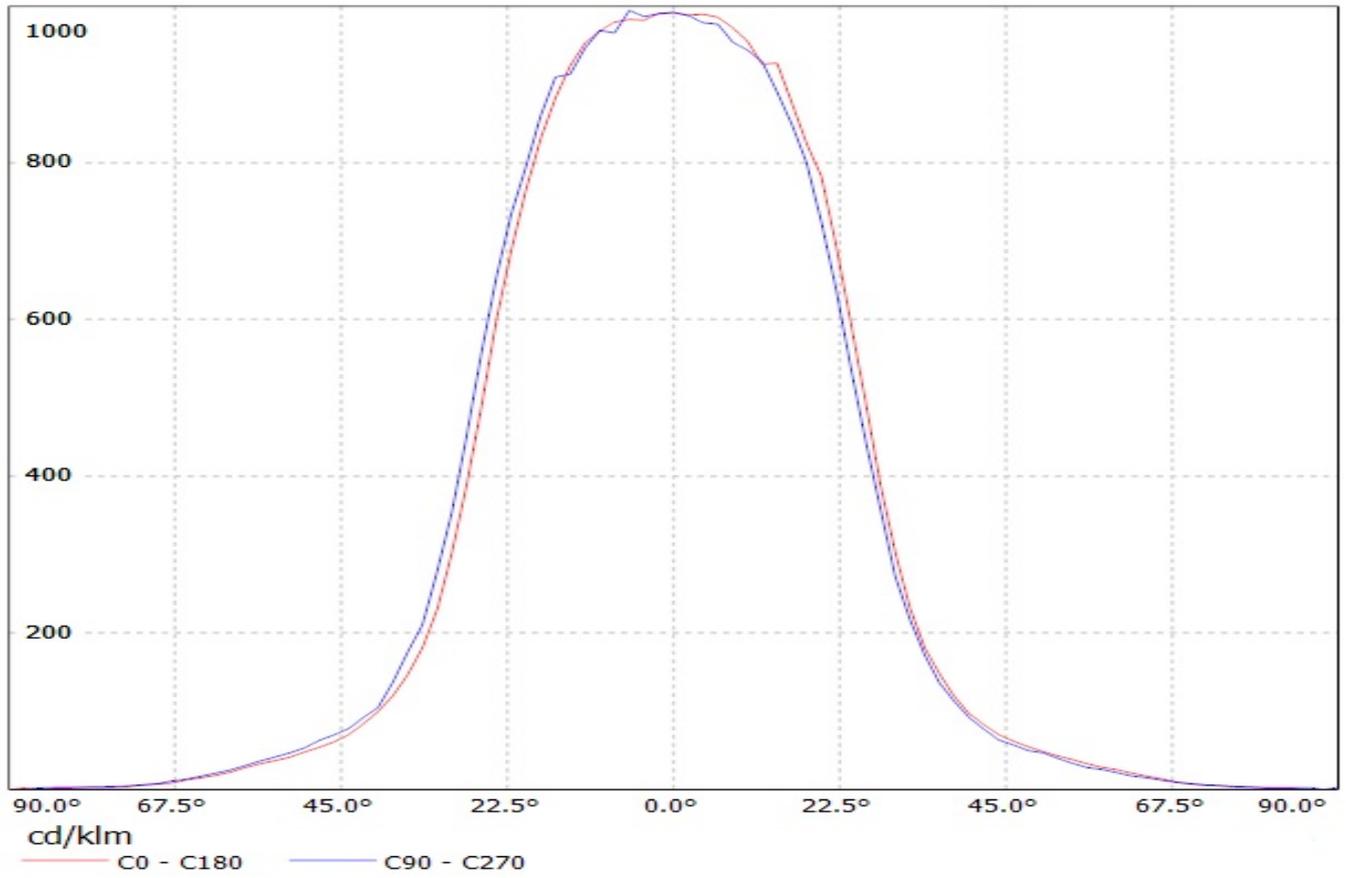


Luminaire: LEDiL Oy C12361_HB-2X2-W_(LH351B) Eff.87.6%

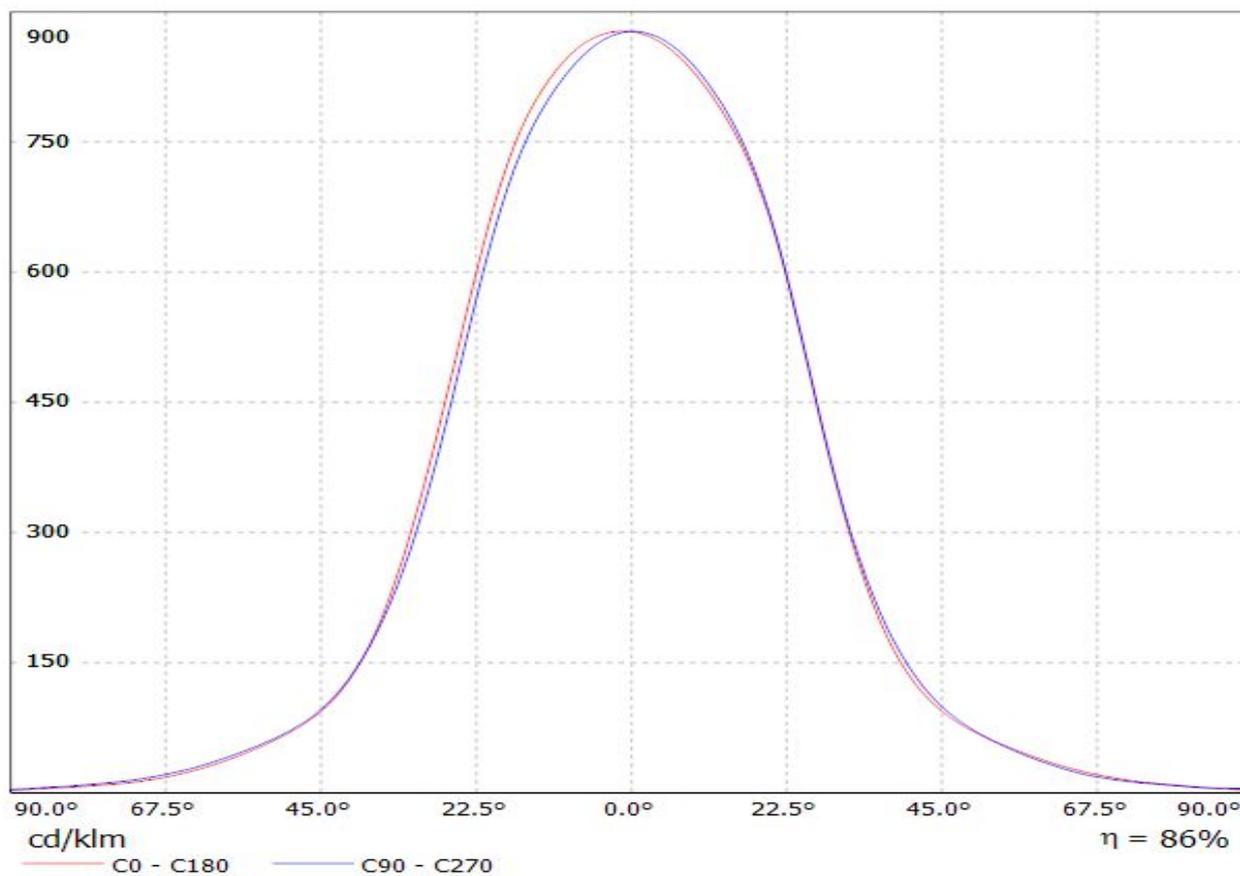
Lamps: 1 x SAMSUNG_LH351B_2x2_430.715lm@250mA_P=2.84311W_I=249.9mA



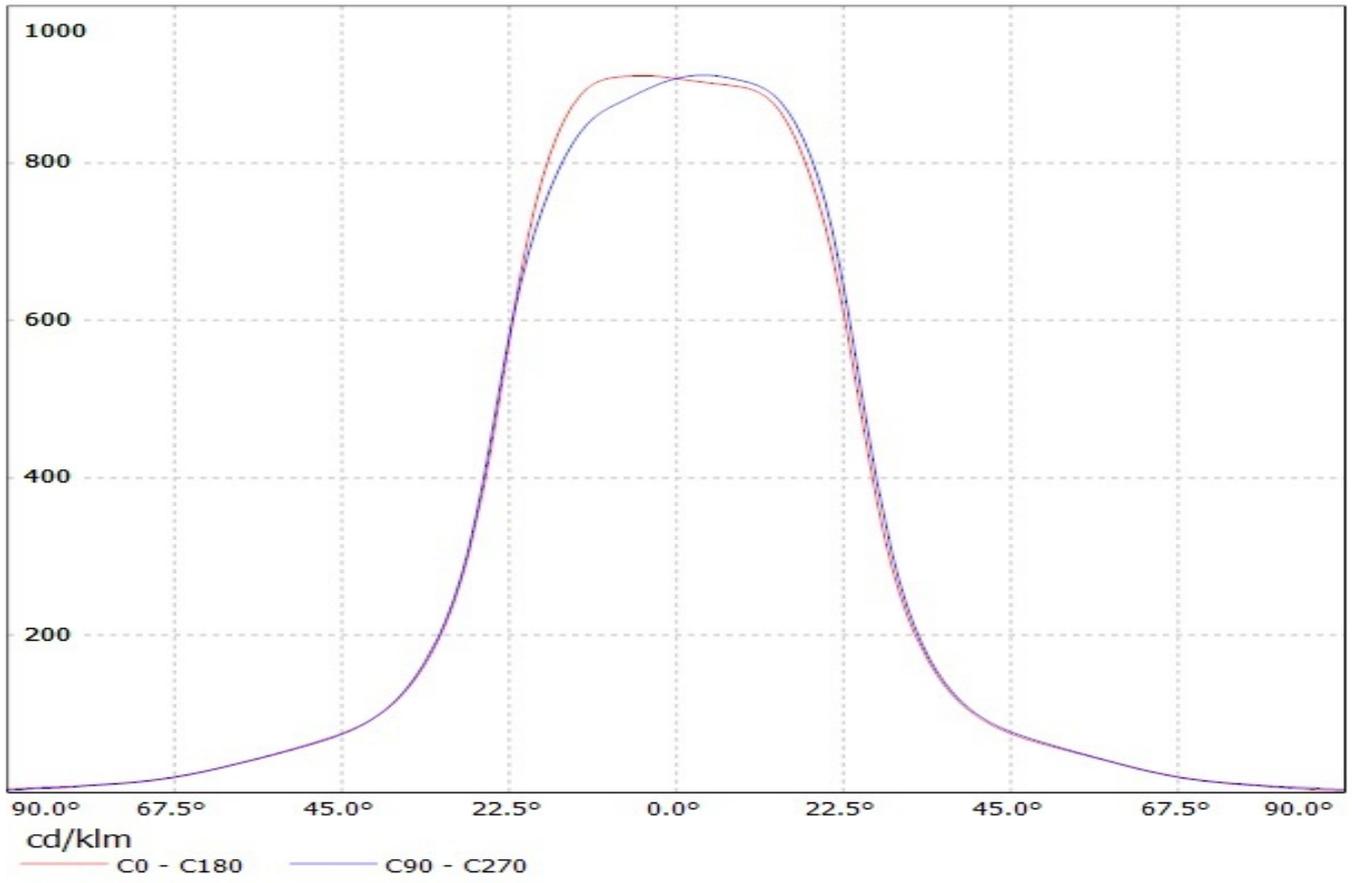
Luminaire: Ledil Oy C12361_HB-2X2-W_(3535_Ceramic_gen2) Efficiency=86%
Lamps: 1 x LG 3535 Ceramic gen2 (PKG5700K) 461lm @ 250mA CCT=6600K P=2.9W I=250mA



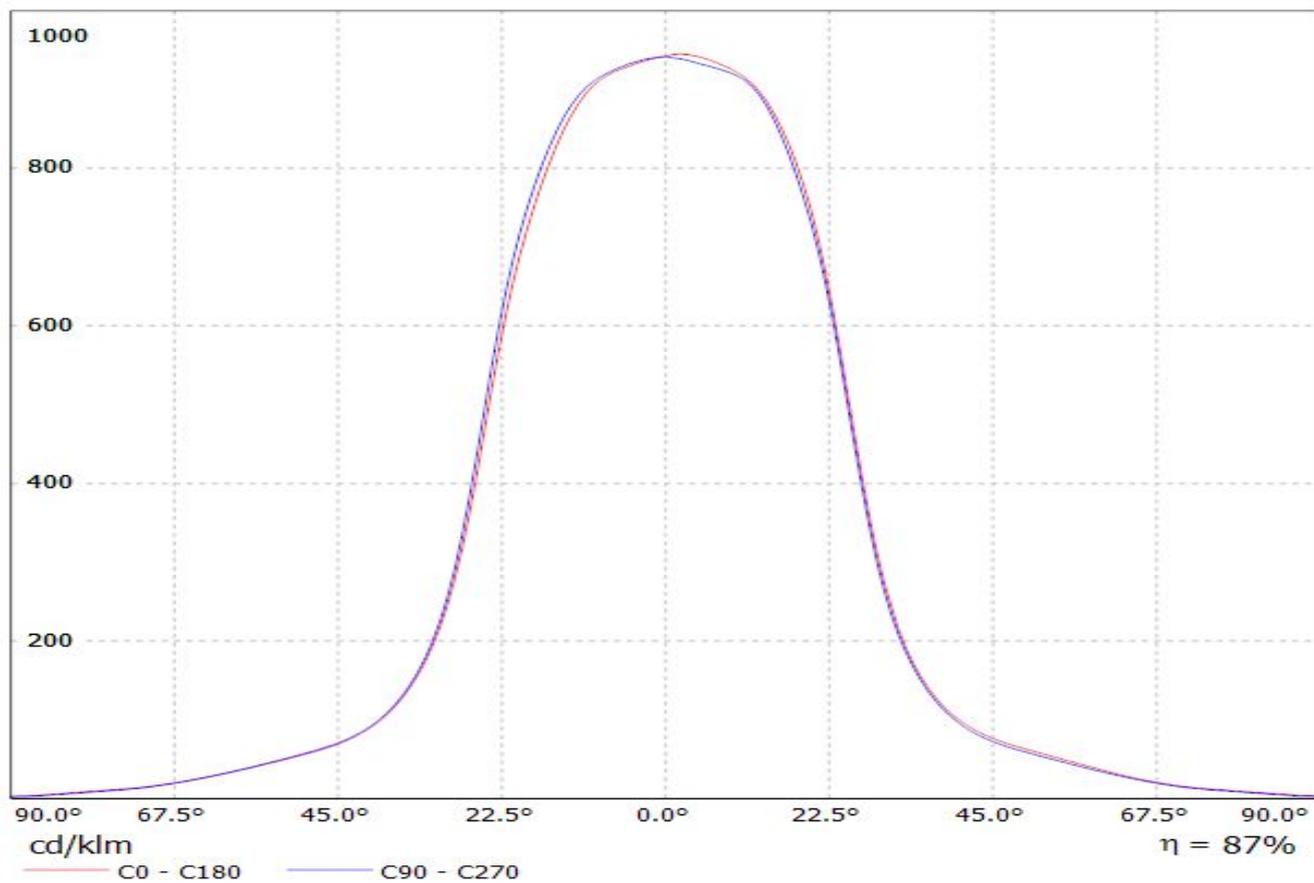
Luminaire: LEDiL Oy C12361_HB-2X2-W_(NS9x383) Eff. 86%
Lamps: 1 x Nichia NS9x383 (288lm@250mA)



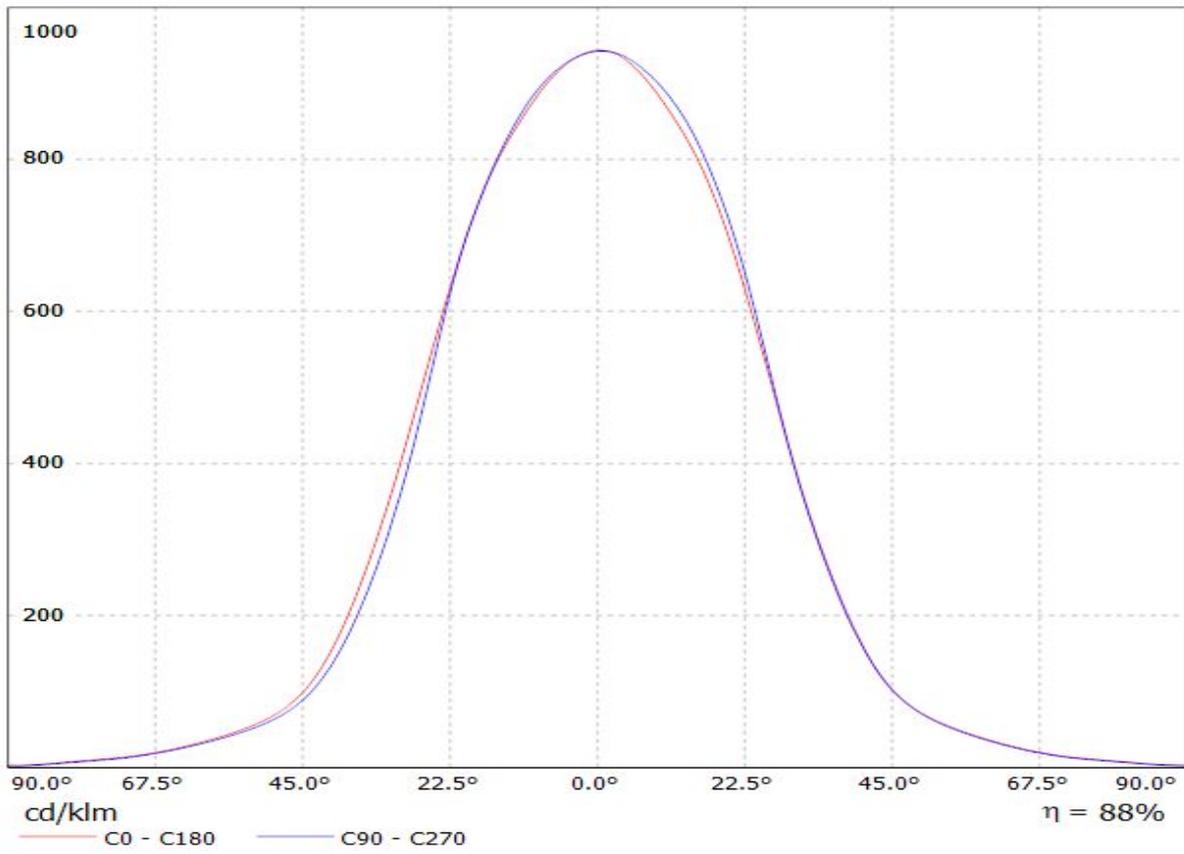
Luminaire: LEDIL OY C12361_HB-2X2_(SQ_PC) Efficiency=87%
Lamps: 1 x OSLO SQUARE PC (400.6lm)



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

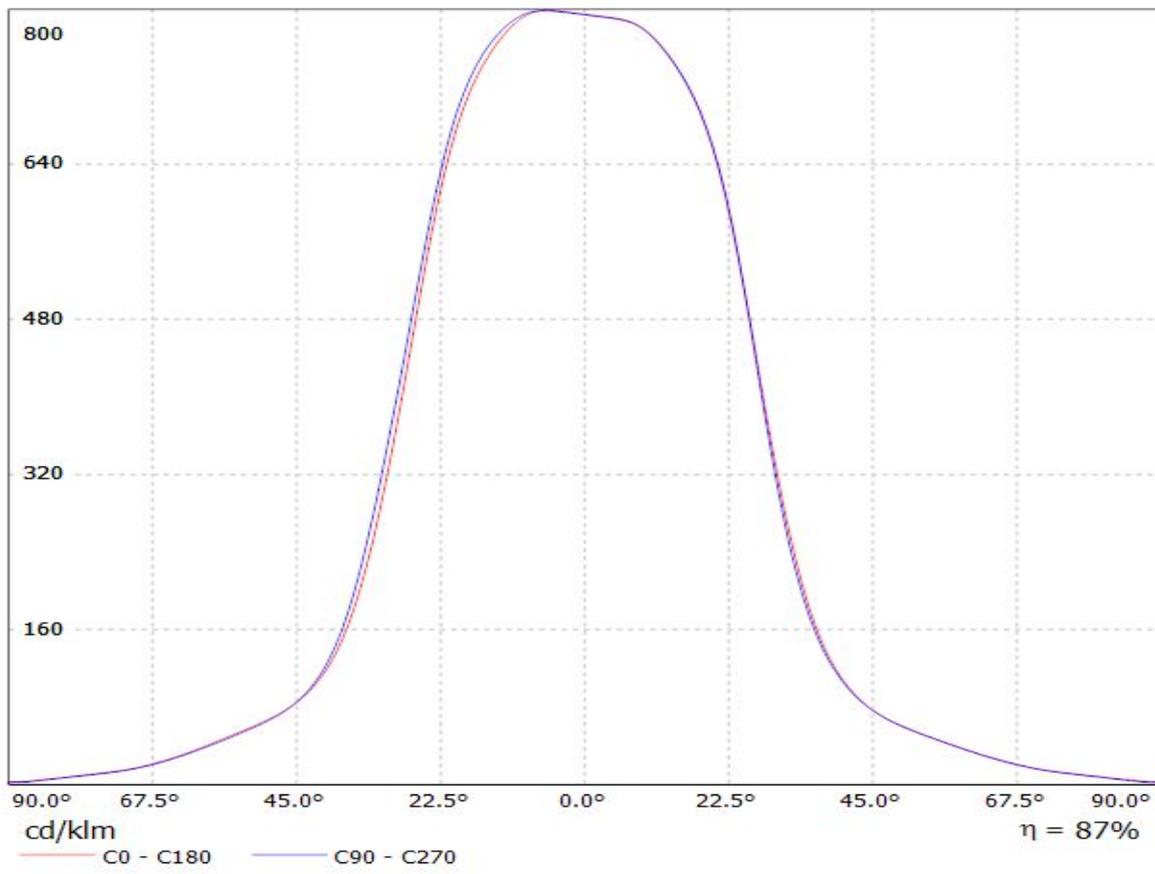


Luminaire: LEDiL Oy C12361_HB-2X2-W_(OLP-5065F6L-06A) Eff.88.5%
Lamps: 1 x OPTOGAN_2x2_(OLP-5065F6L-06A-80-D05O0) 423.091lm@250mA CCT=5000K P=2.98506W I=249.9mA

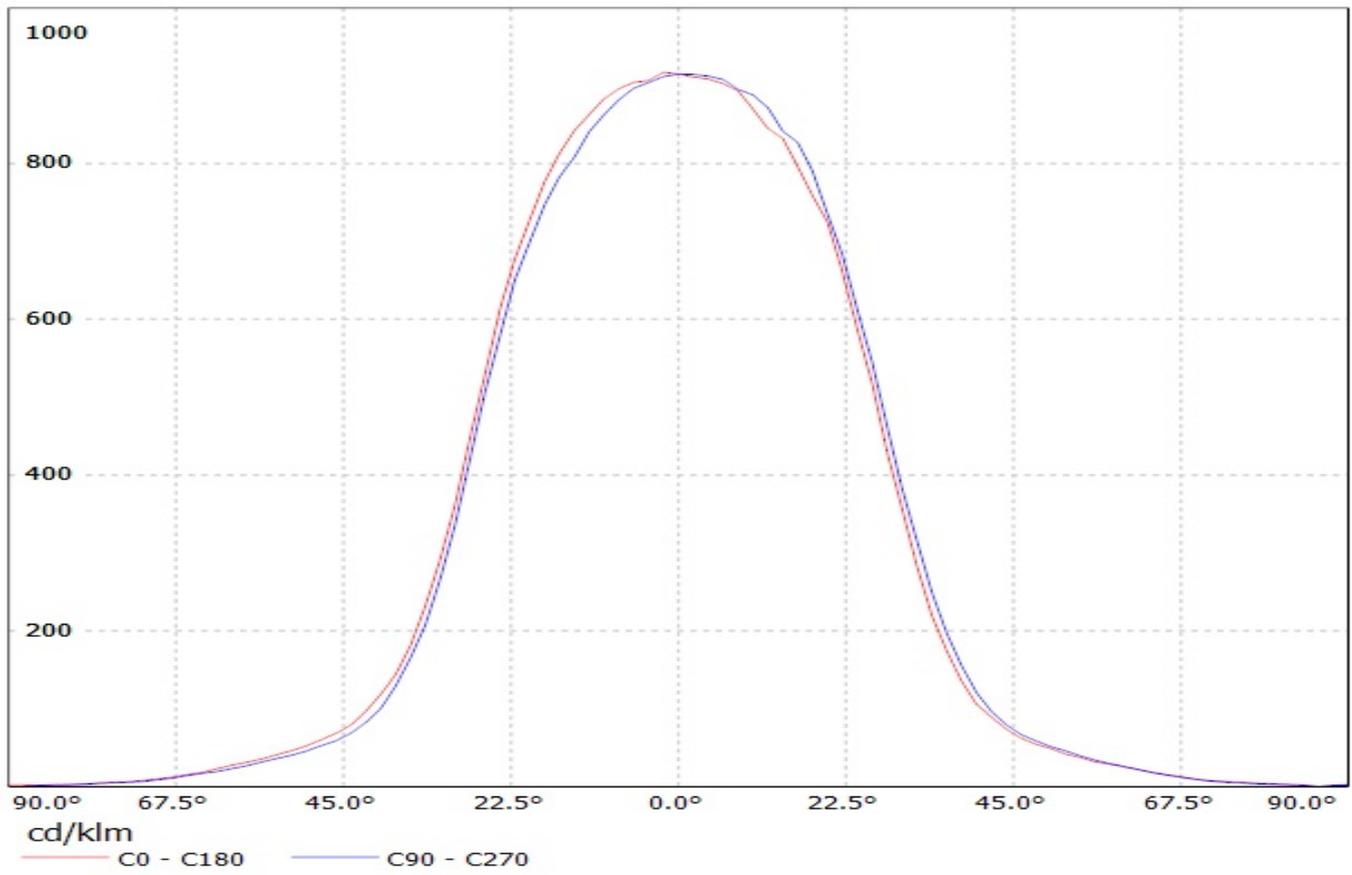


Luminaire: LEDiL Oy C12361_HB-2X2-W_(XP-L) Eff.87.0%

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

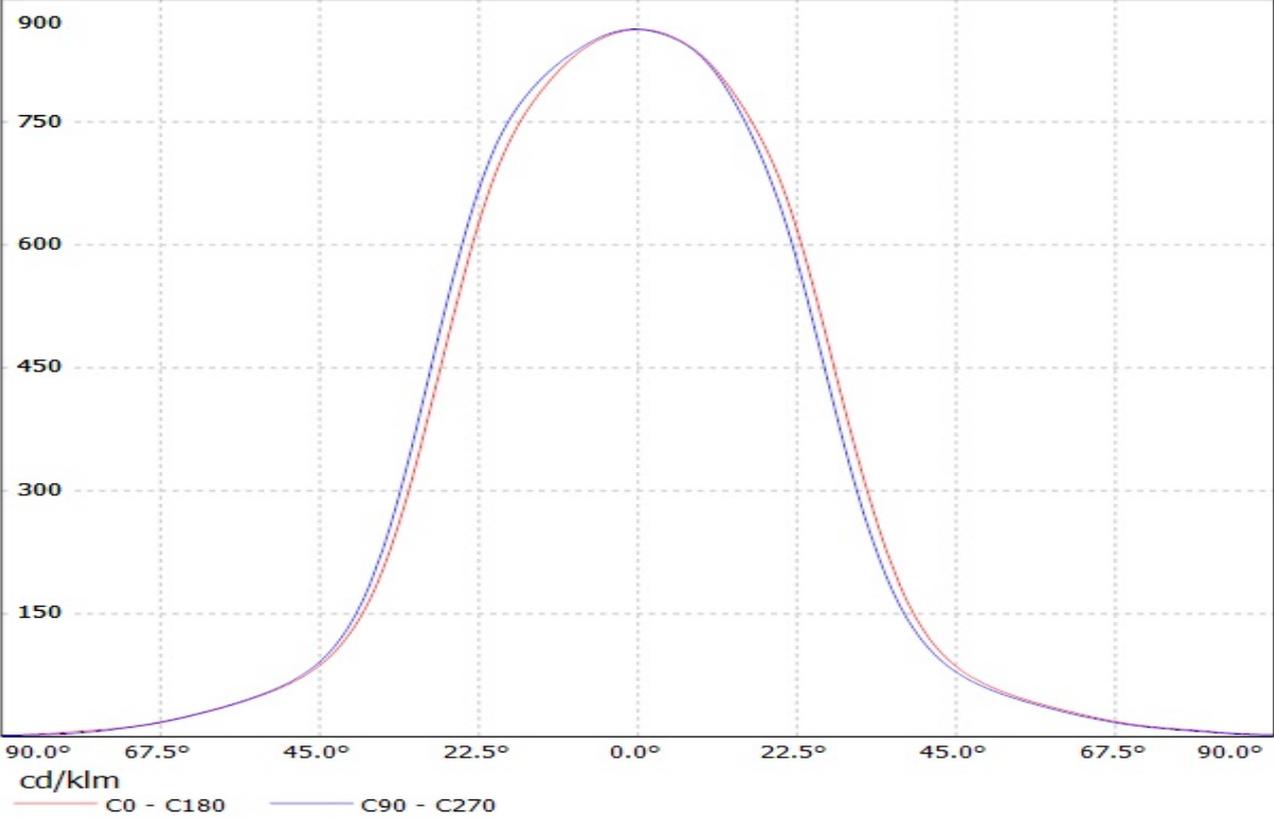


Luminaire: Ledil Oy C12361_HB-2X2-W_(XM-L2) Efficiency=87%
Lamps: 1 x Cree XM-L2 (CXMLBWT-0-7B4-T30-0L-001) 360lm @ 250mA CCT=3220K P=2.8W I=250mA



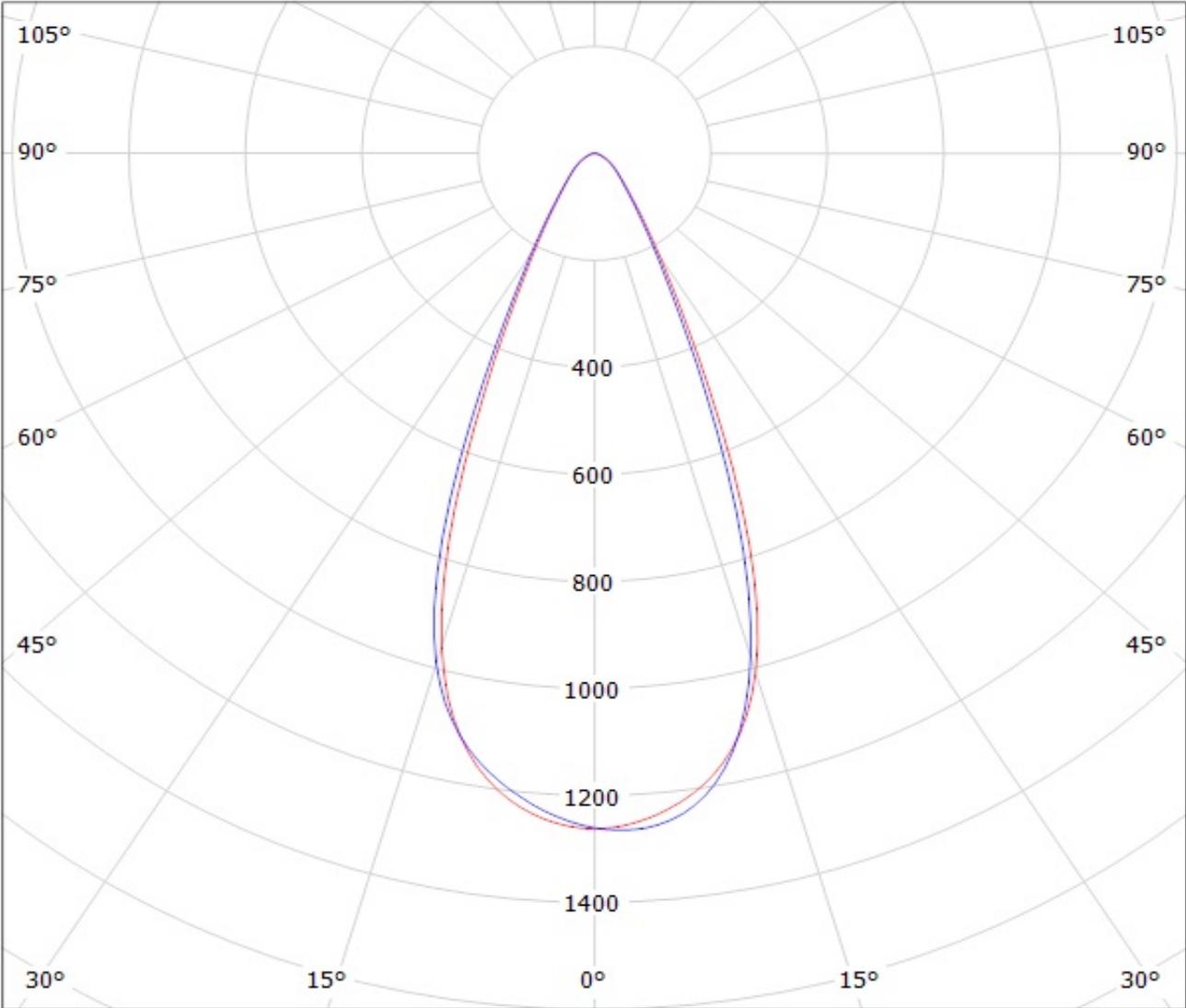
Luminaire: LEDIL OY C12361_HB-2X2 (XM-L) Efficiency=89%

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



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

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



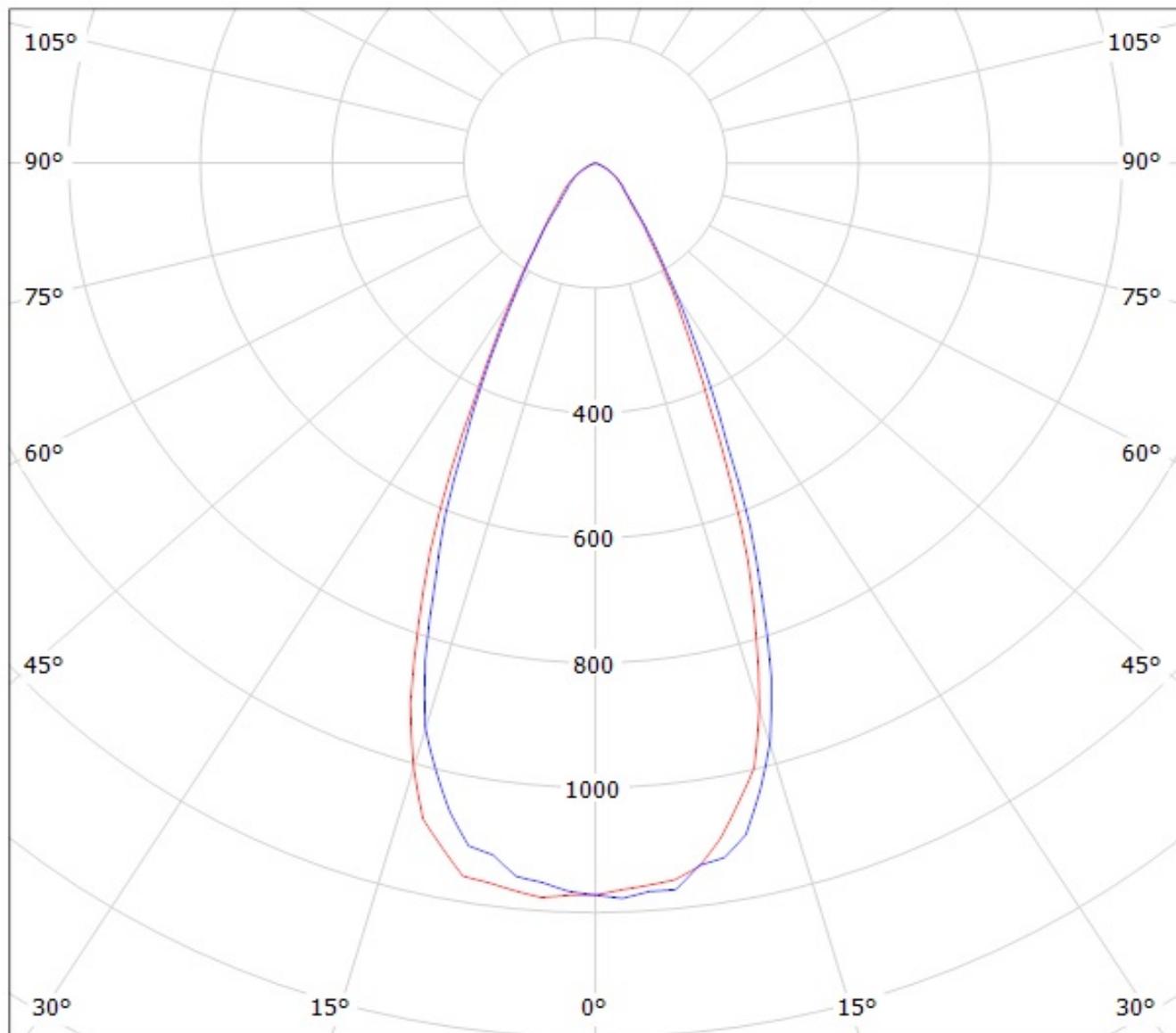
cd/klm

— C0 - C180

— C90 - C270

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

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



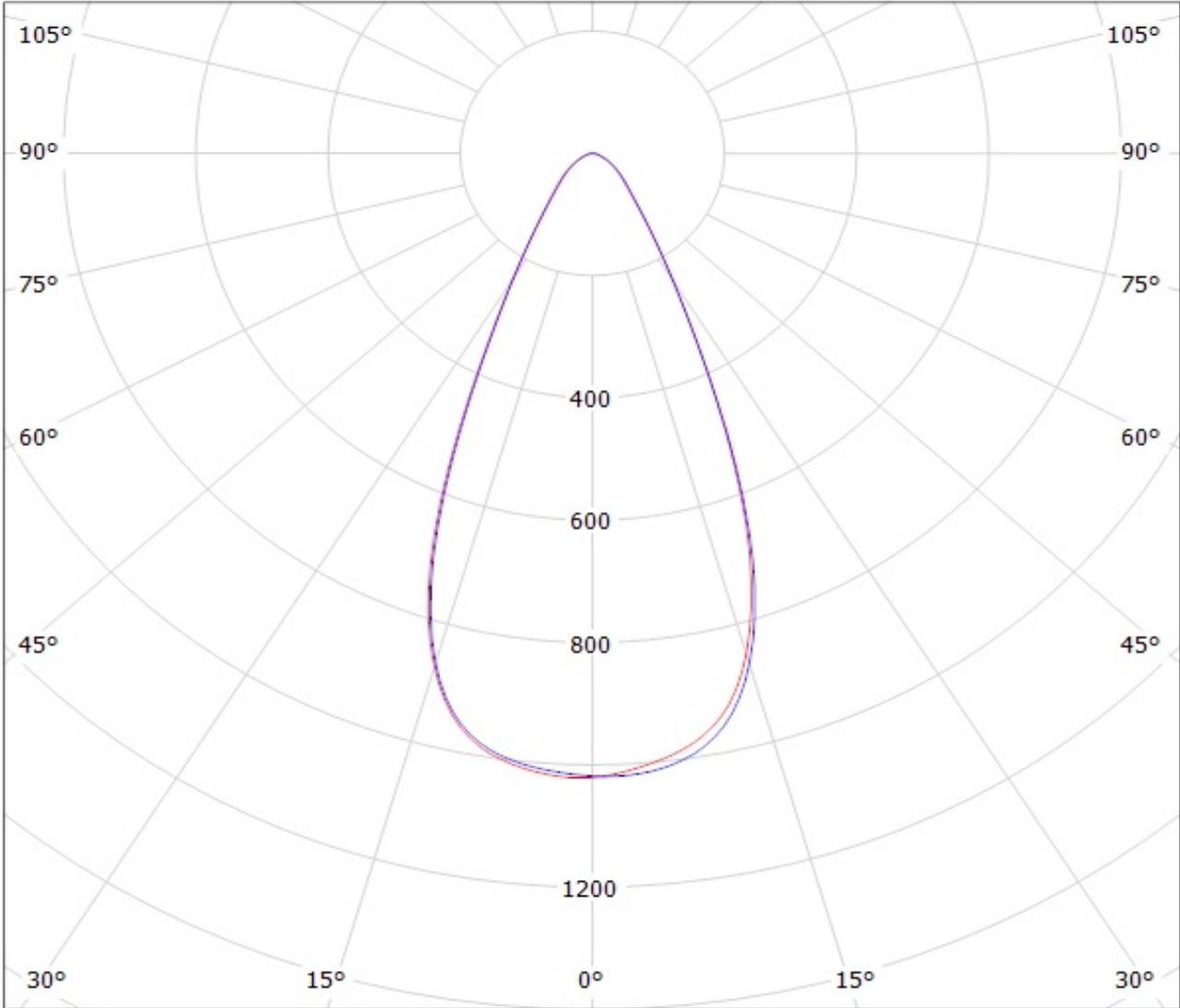
cd/klm

— C0 - C180

— C90 - C270

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

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



cd/klm

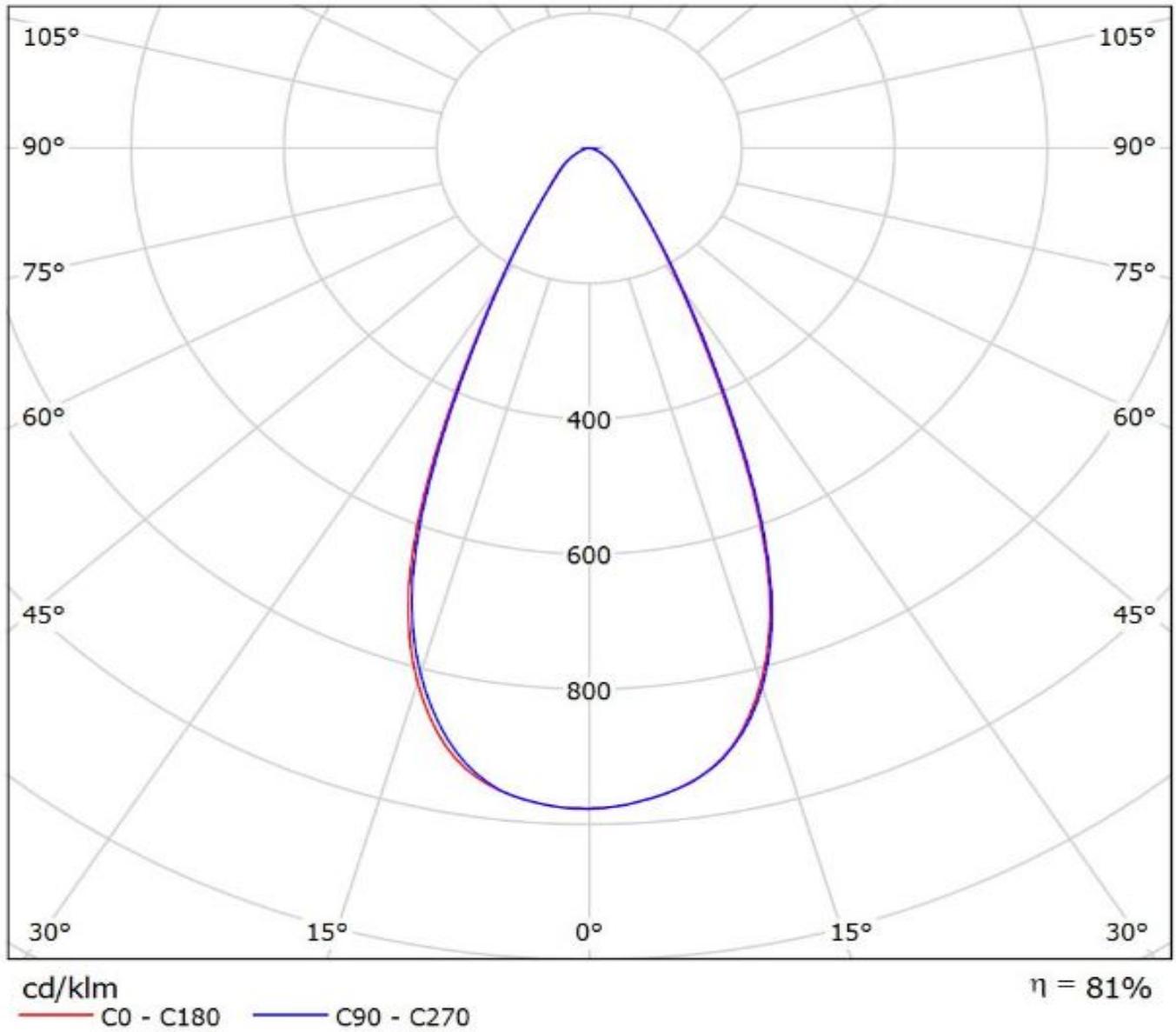
— C0 - C180

— C90 - C270

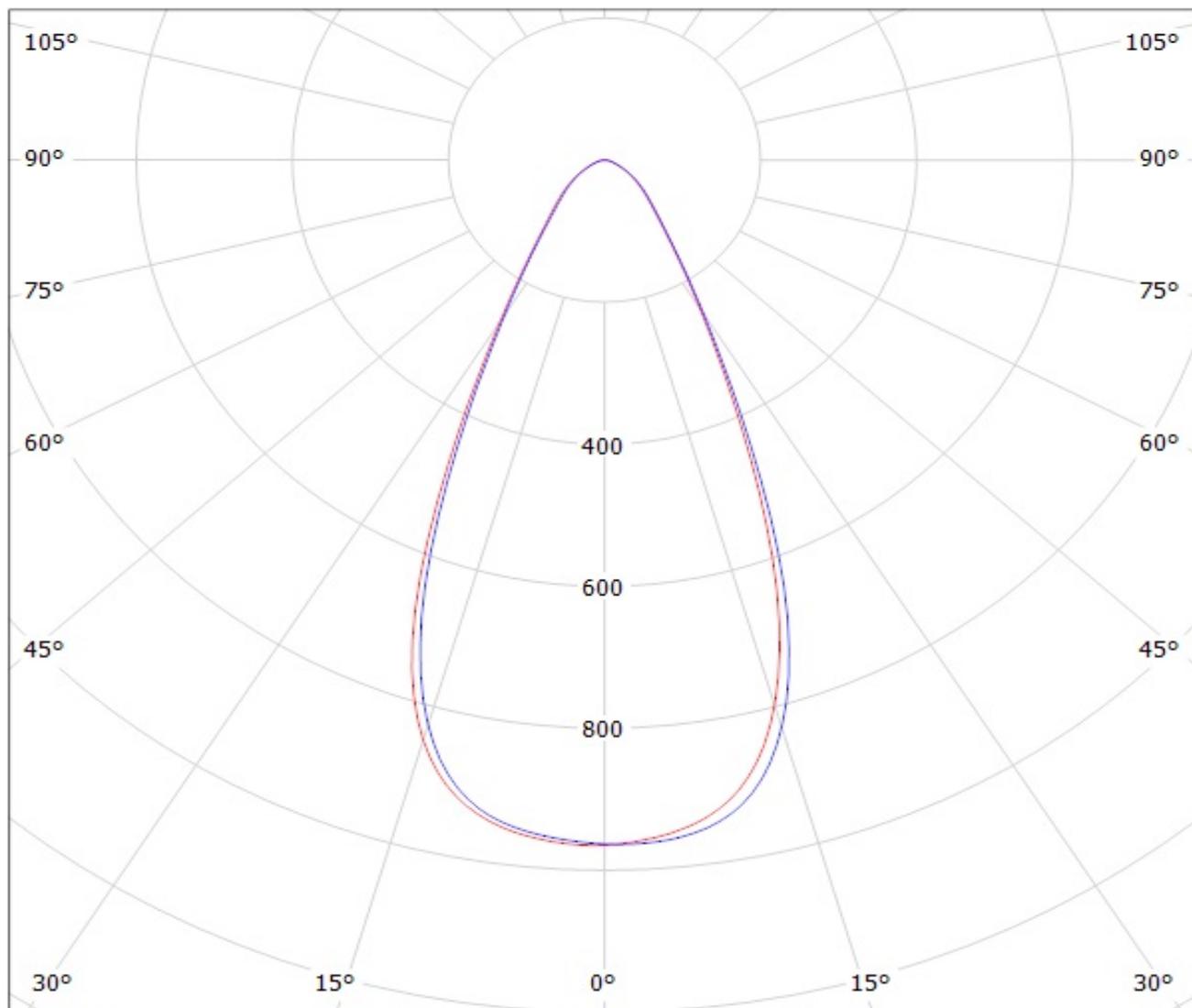
Ledil C12361_HB-2X2-W_(TL1L4) / LDC (Polar)

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 (XB-D) Efficiency=86%
Lamps: 1 x Cree XB-DE (371lm @ 250mA)

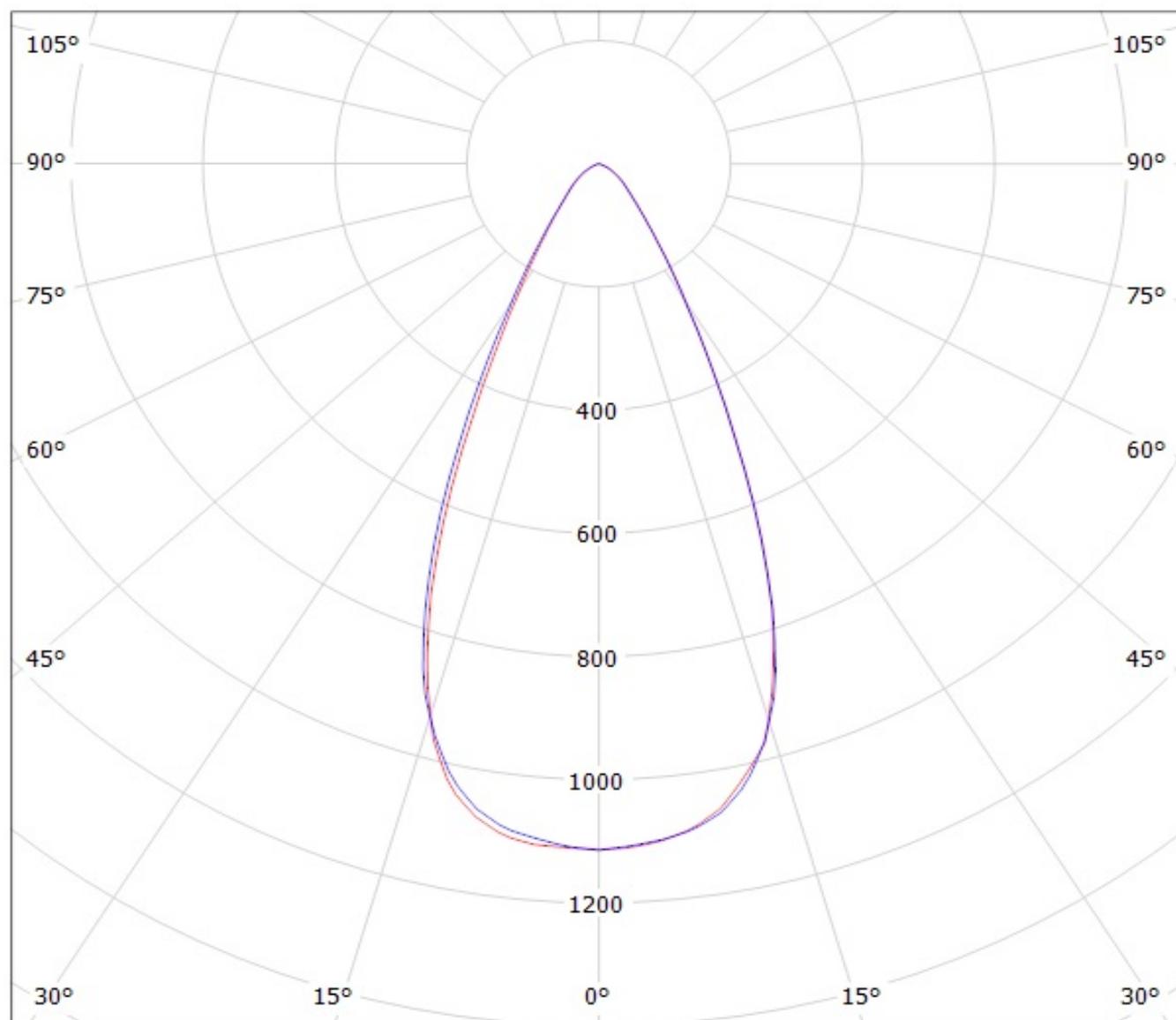


cd/klm

— C0 - C180

— C90 - C270

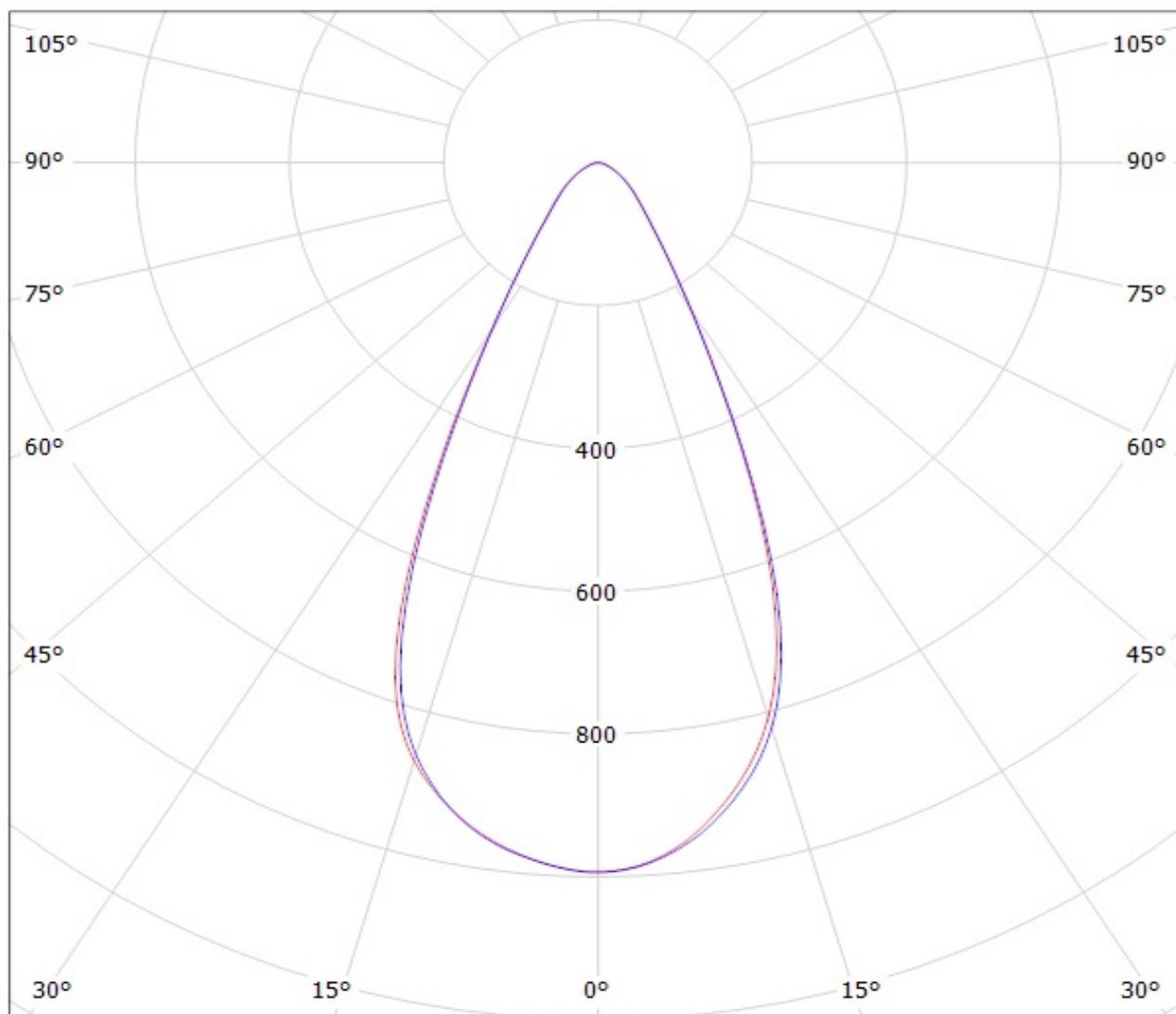
Luminaire: LEDil Oy C12361_HB-2x2-W_(NCSxx19A) Efficiency=85%
Lamps: 1 x Nichia NCSL119AT-H1) 229lm @ 250mA CCT=2800K P=3.1W I=250mA



cd/klm

— C0 - C180 — C90 - C270

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

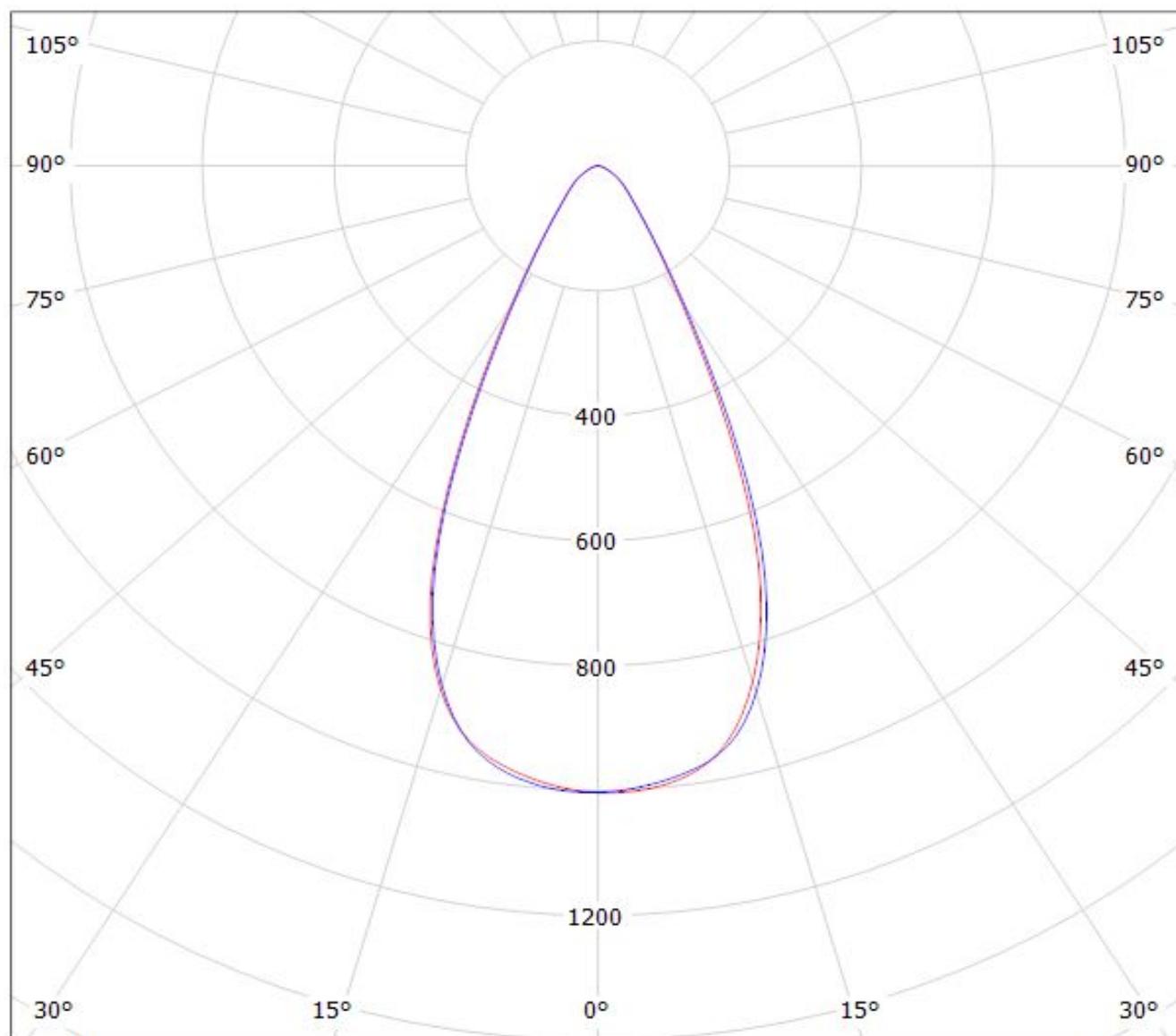


cd/klm

— C0 - C180

— C90 - C270

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



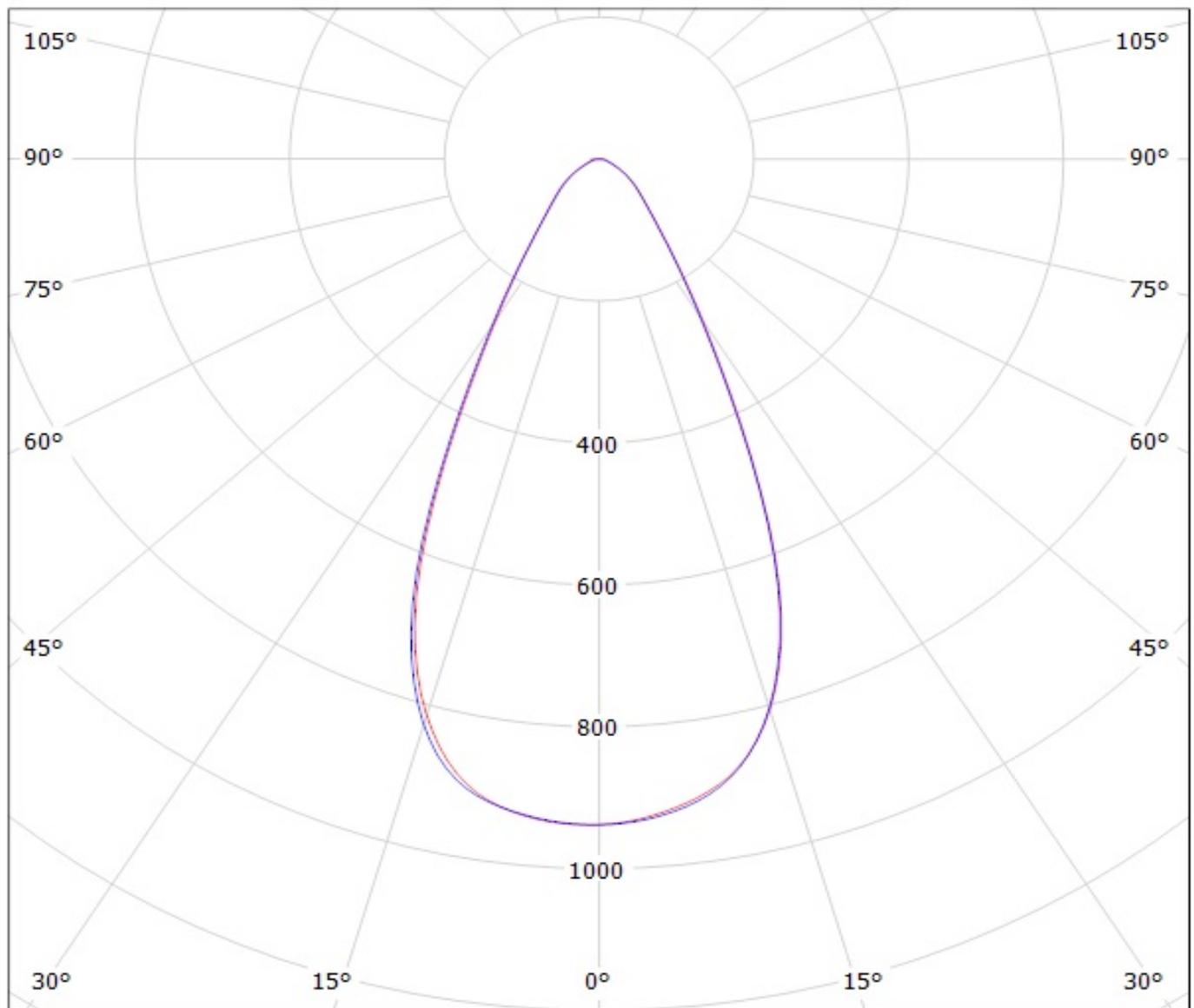
cd/klm

— C0 - C180 — C90 - C270

$\eta = 88\%$

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

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



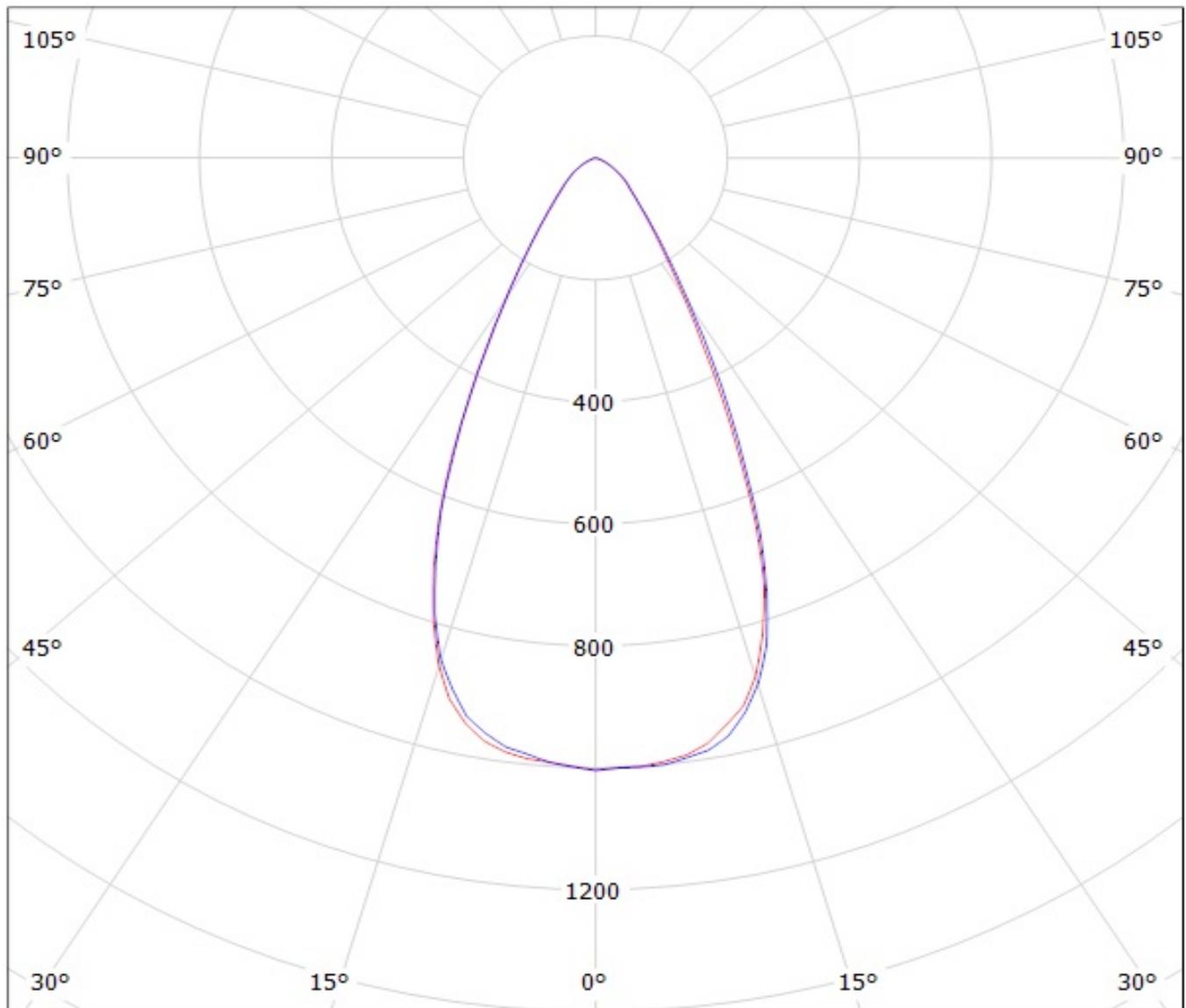
cd/klm

— C0 - C180

— C90 - C270

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

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



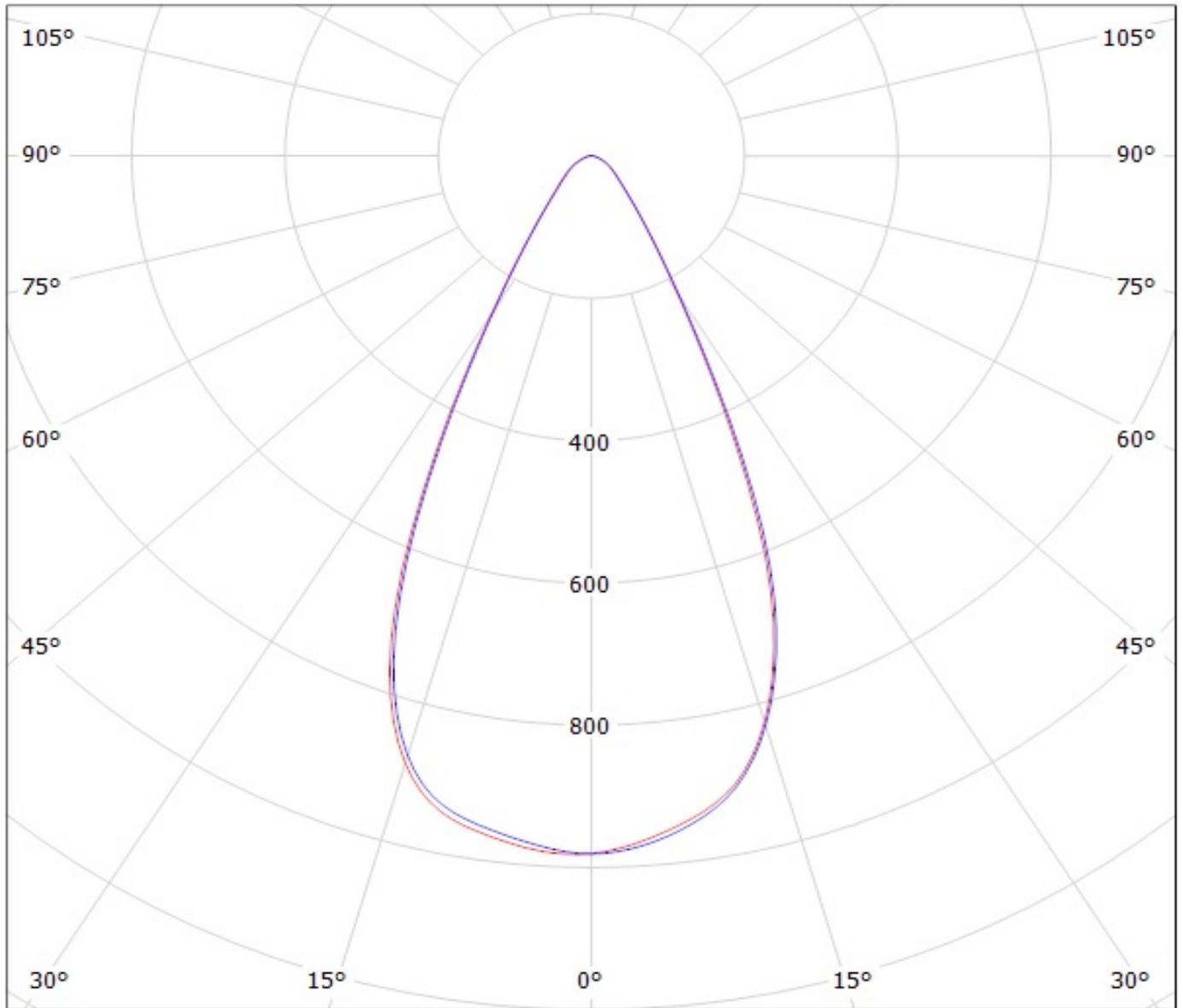
cd/klm

— C0 - C180

— C90 - C270

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

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

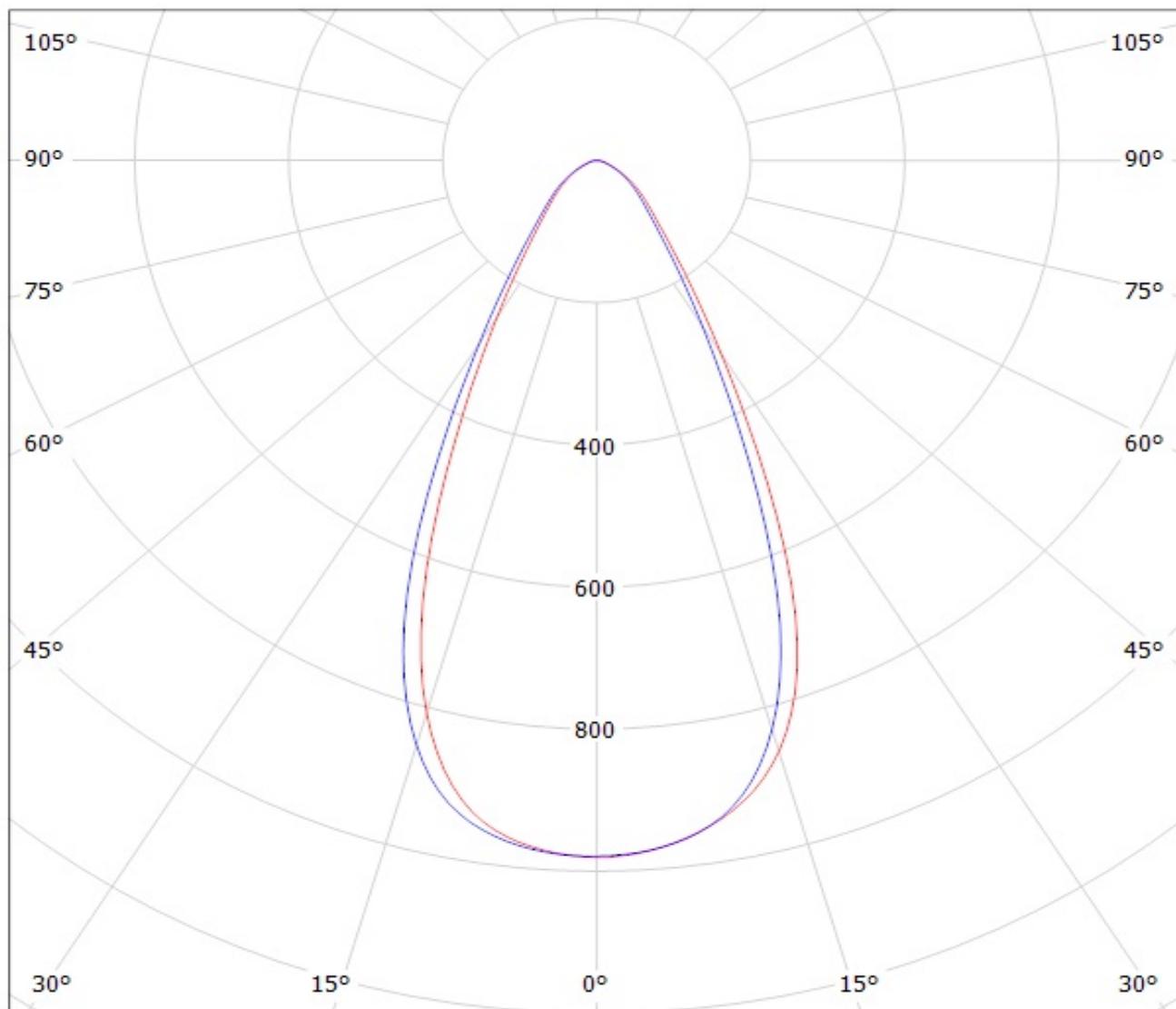


cd/klm

— C0 - C180

— C90 - C270

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

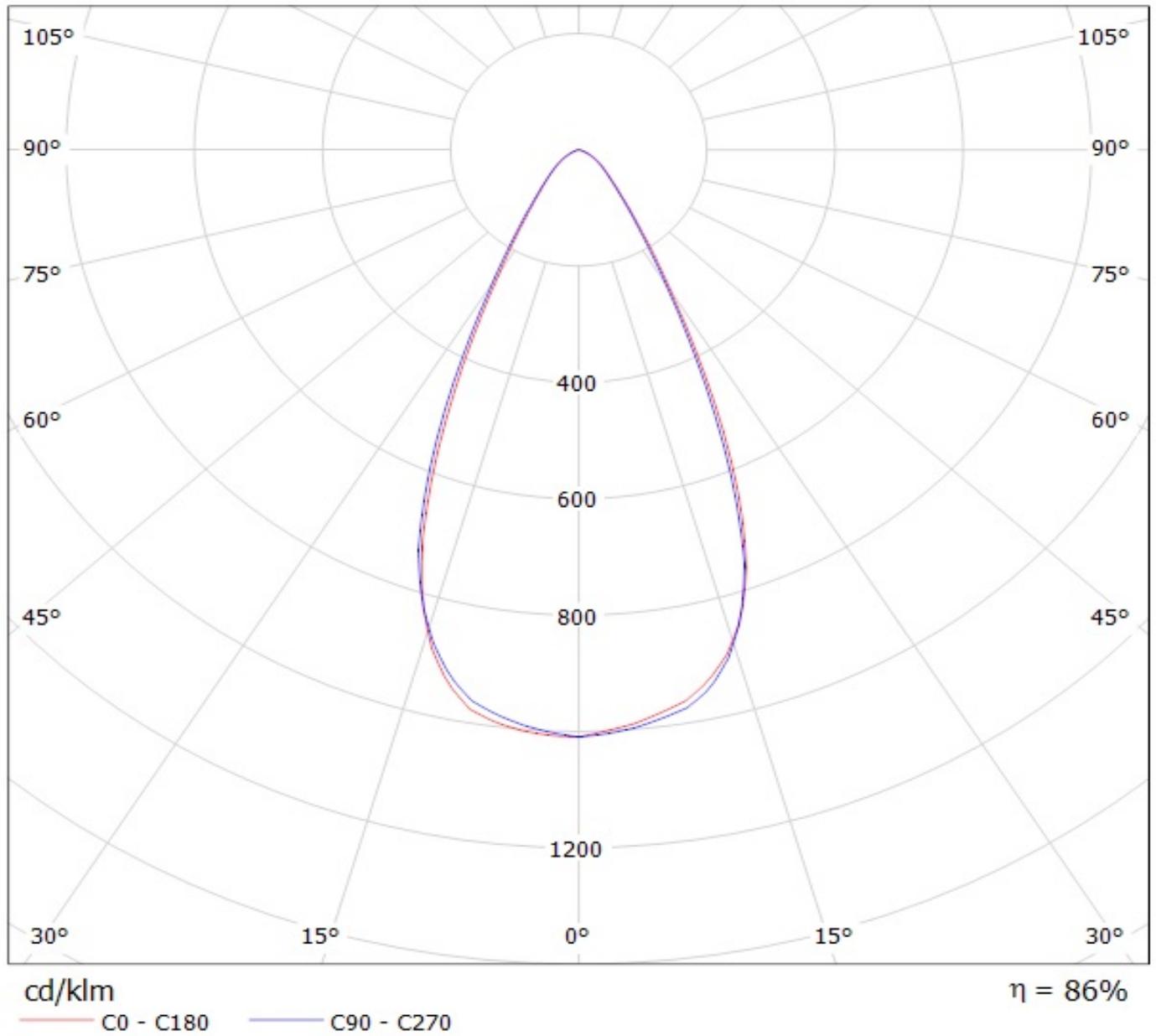


cd/klm

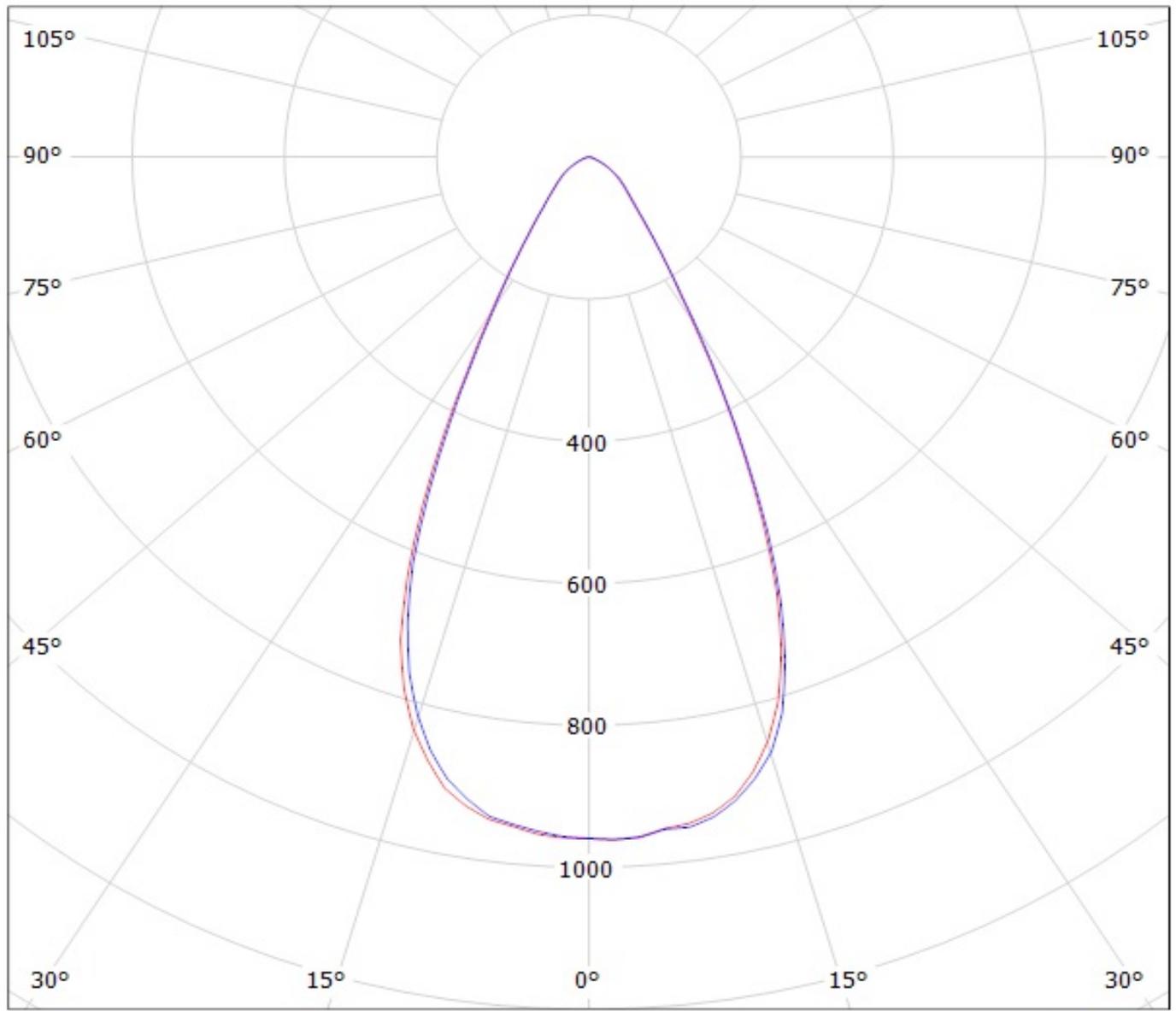
— C0 - C180

— C90 - C270

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

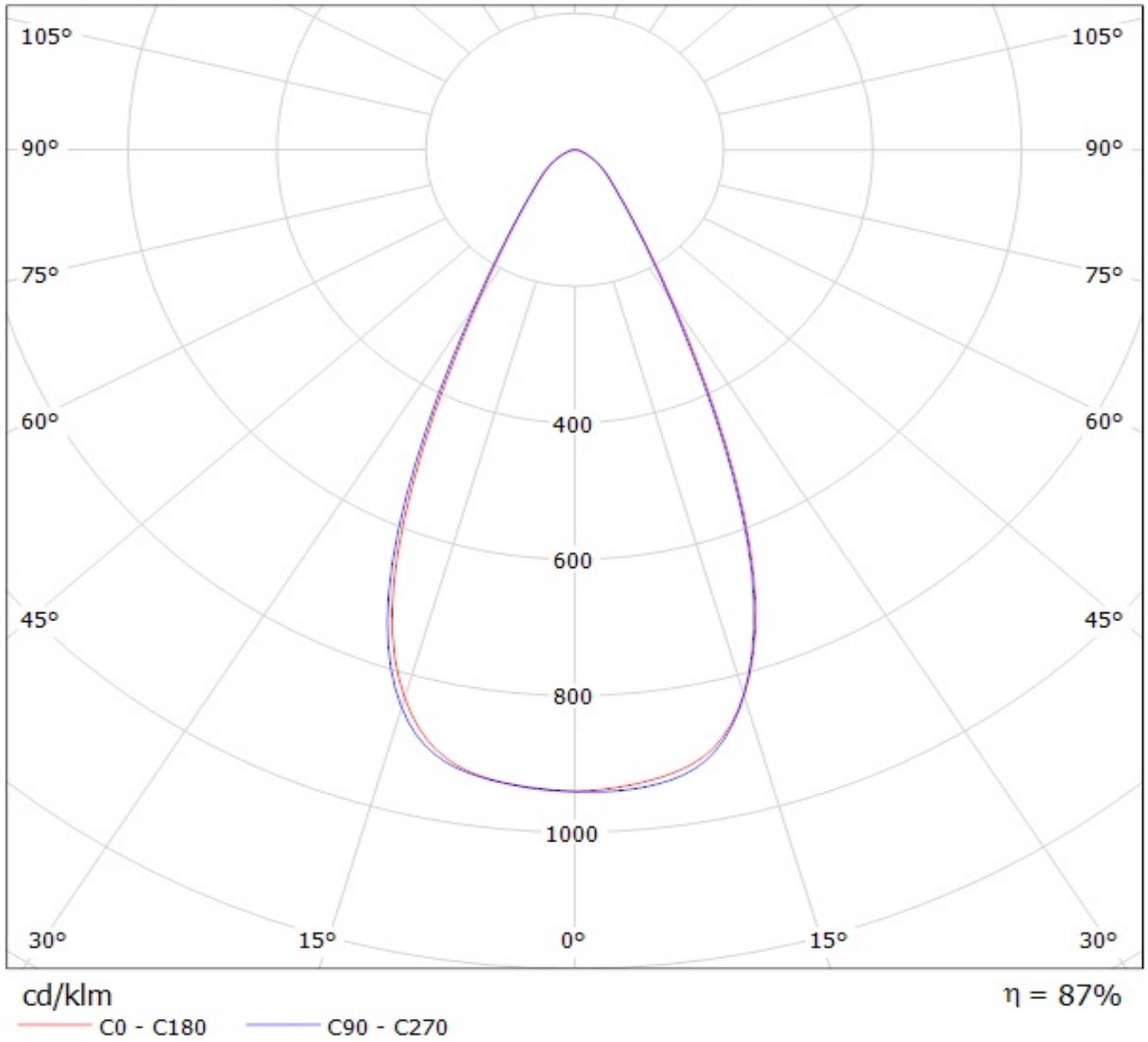


cd/klm

$\eta = 86\%$

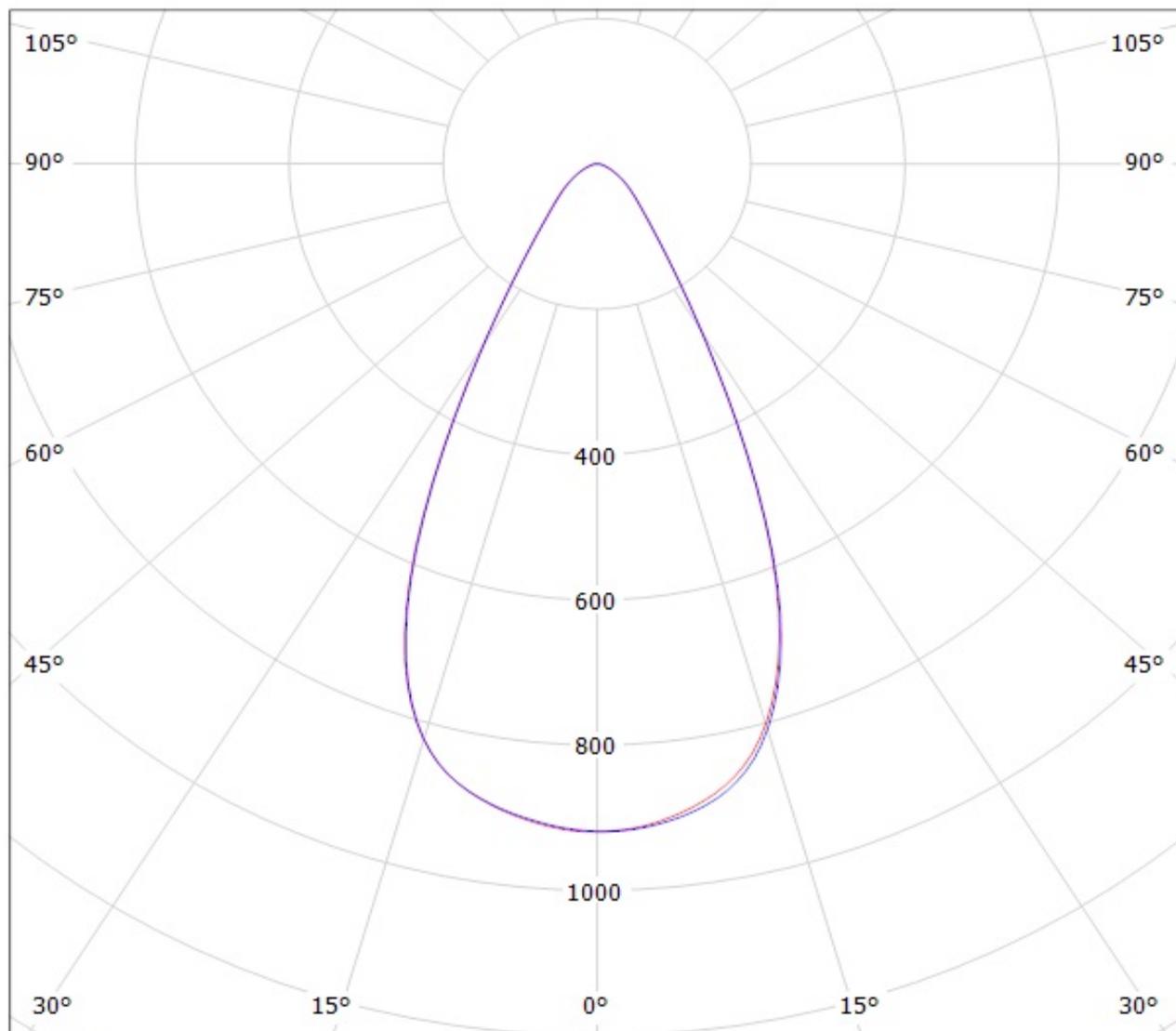
— C0 - C180 — C90 - C270

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



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

Lamps: 1 x Cree XP-G (257lm @ 250mA)



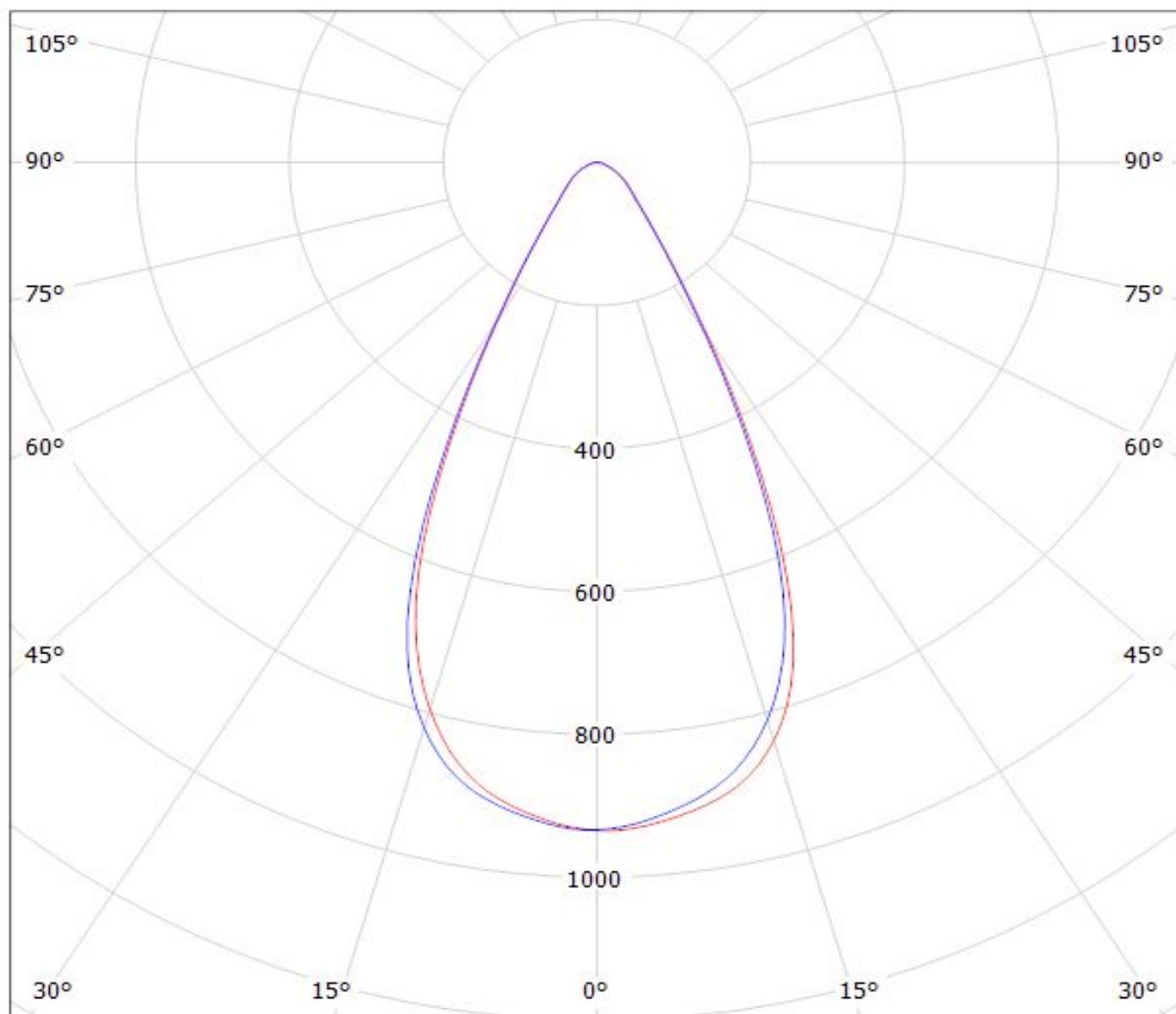
cd/klm

— C0 - C180

— C90 - C270

Luminaire: LEDiL Oy C12361_HB-2X2-W_(LH351B) Eff.87.6%

Lamps: 1 x SAMSUNG_LH351B_2x2_430.715lm@250mA_P=2.84311W_I=249.9mA



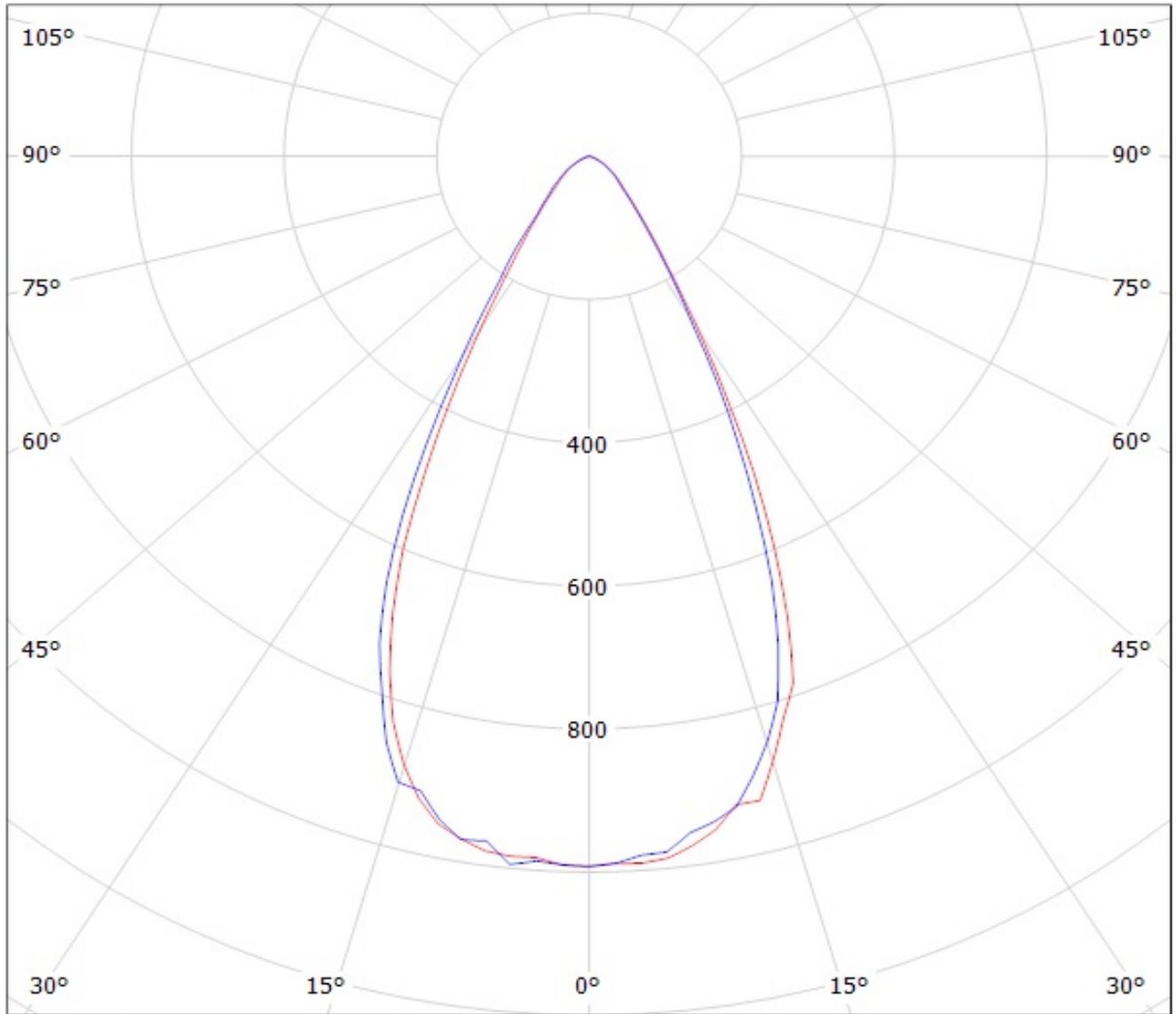
cd/klm

— C0 - C180

— C90 - C270

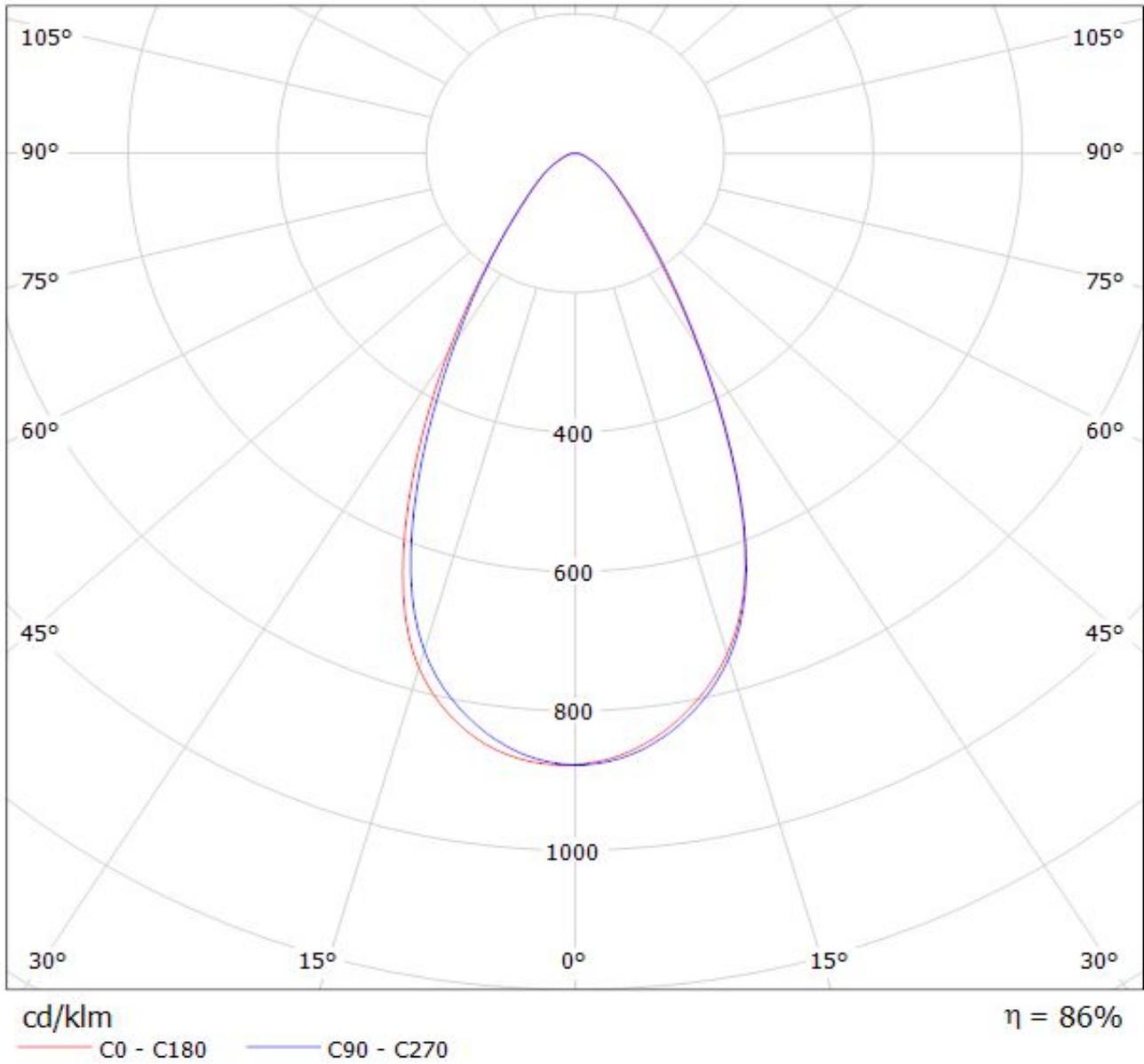
$\eta = 88\%$

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

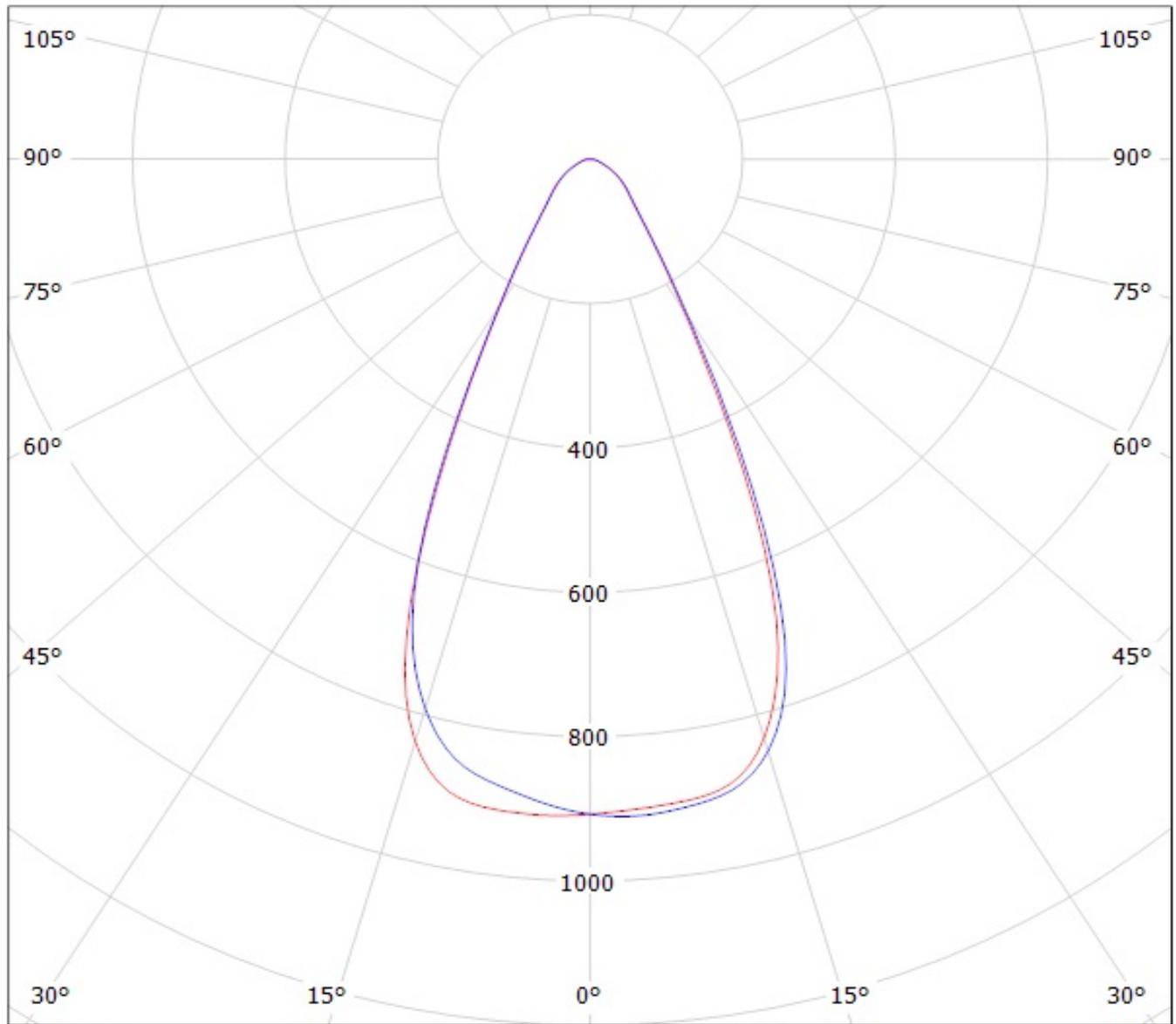


cd/klm
— C0 - C180 — C90 - C270

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



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

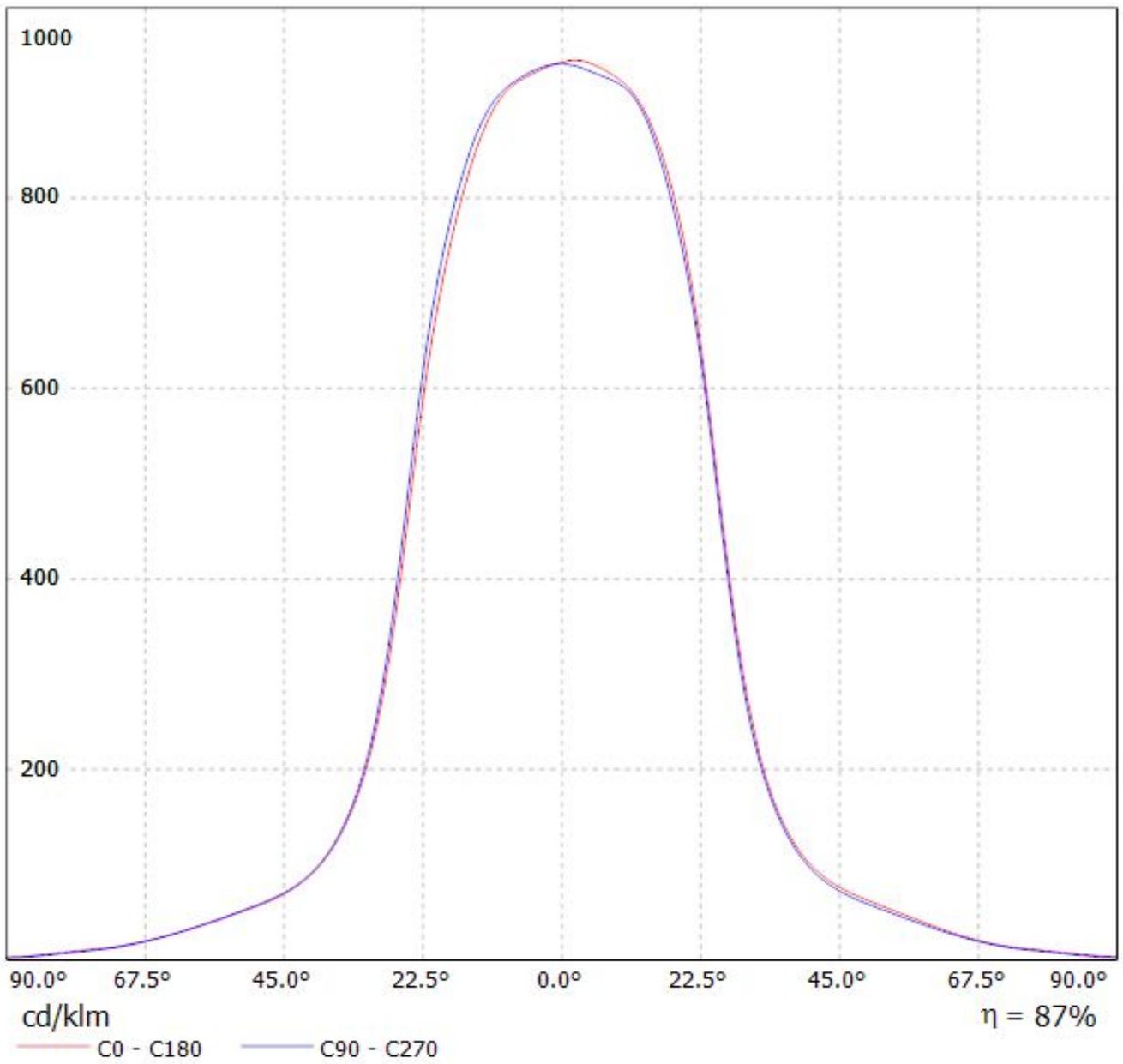


cd/klm

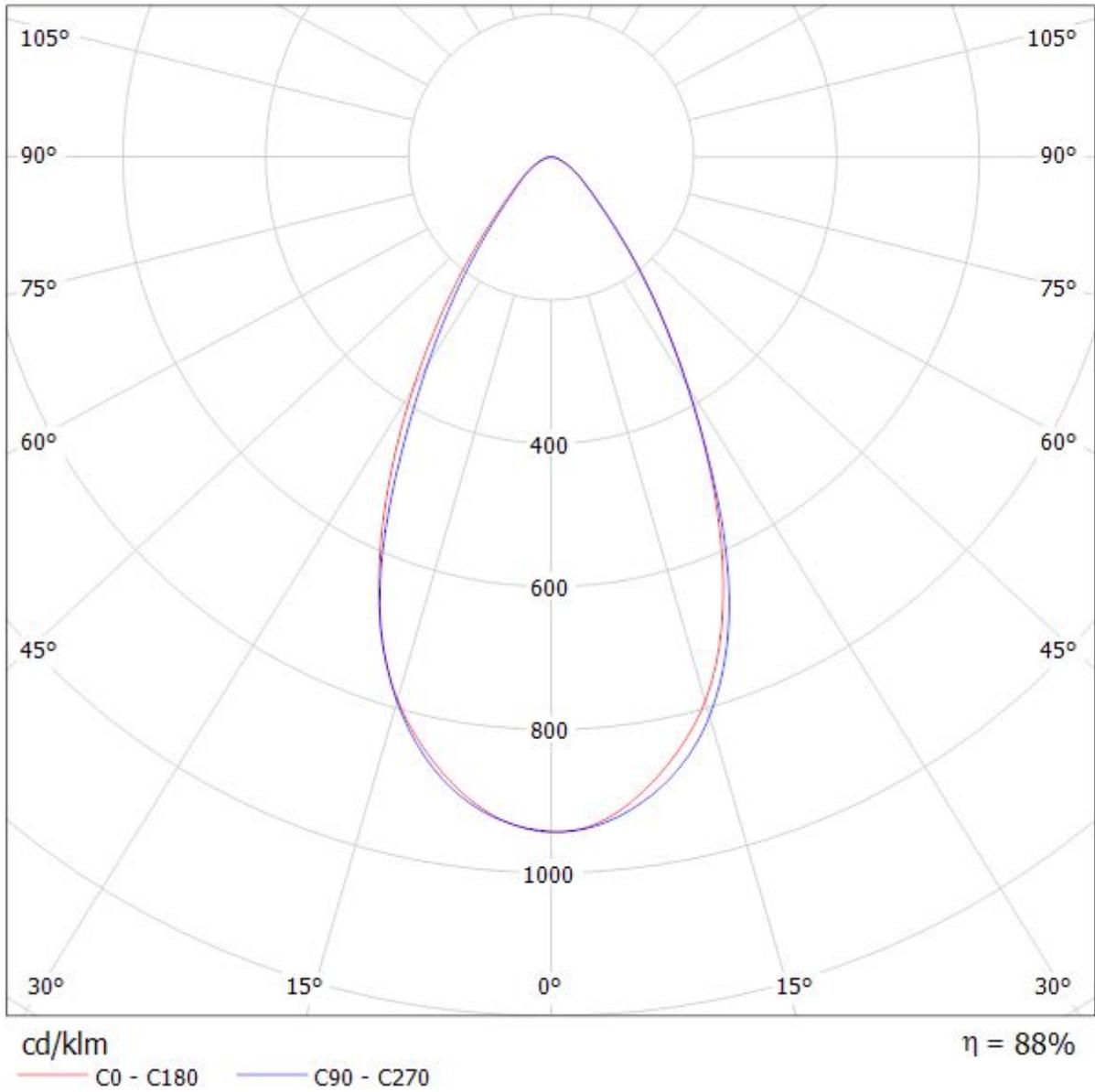
— C0 - C180

— C90 - C270

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

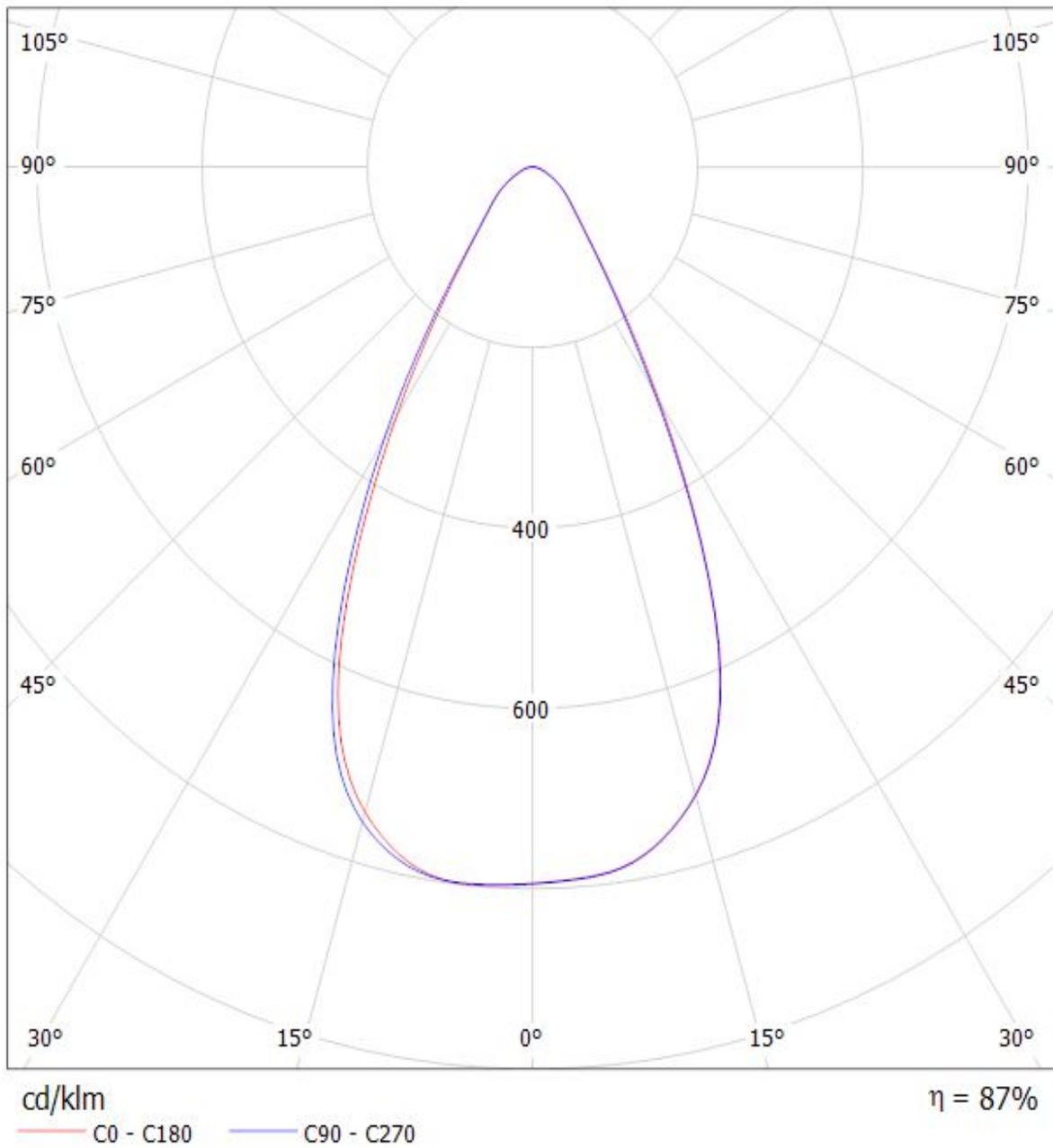


Luminaire: LEDiL Oy C12361_HB-2X2-W_(OLP-5065F6L-06A) Eff.88.5%
Lamps: 1 x OPTOGAN_2x2_(OLP-5065F6L-06A-80-D05O0) 423.091lm@250mA CCT=5000K P=2.98506W I=249.9mA

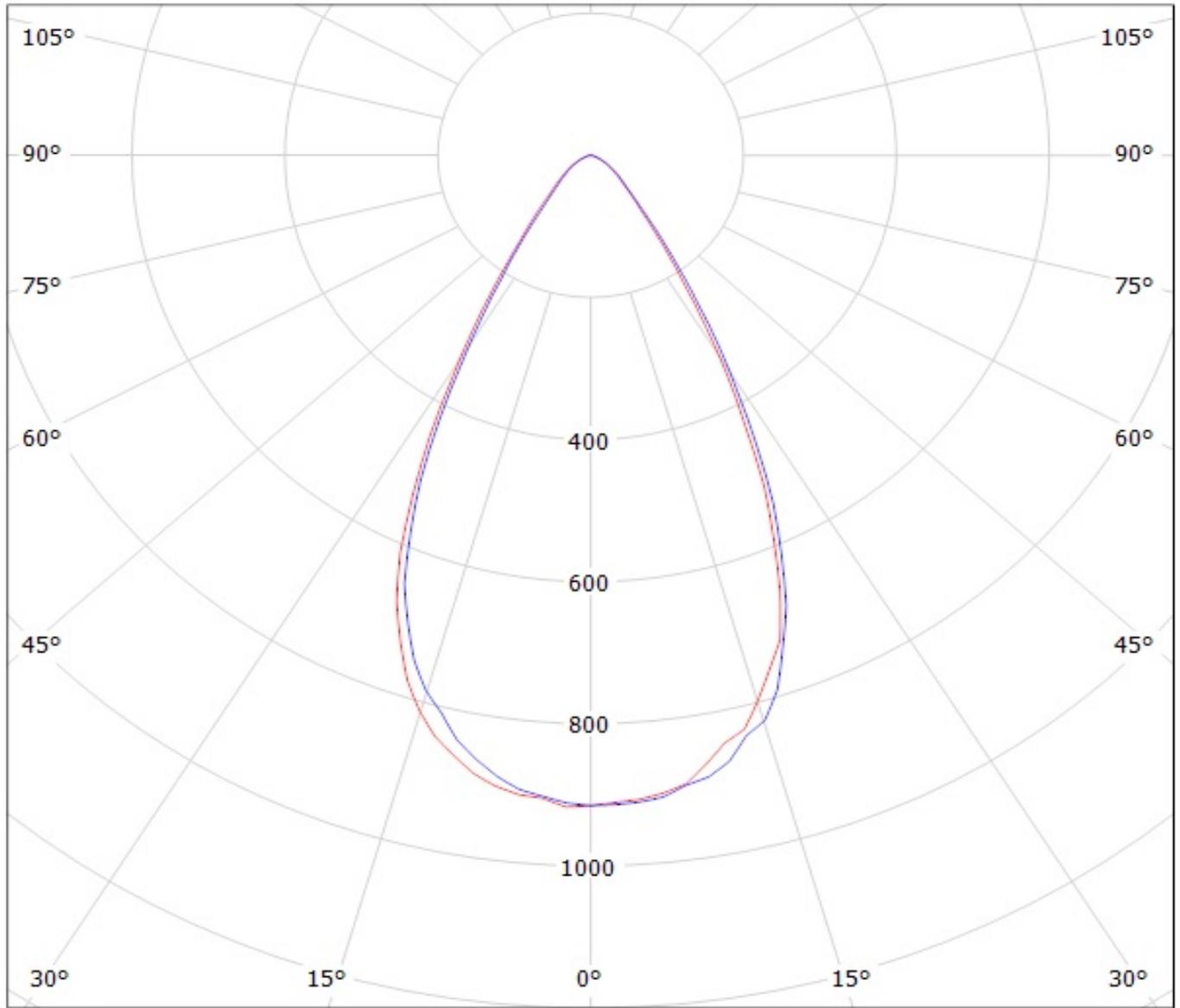


Luminaire: LEDiL Oy C12361_HB-2X2-W_(XP-L) Eff.87.0%

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_(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



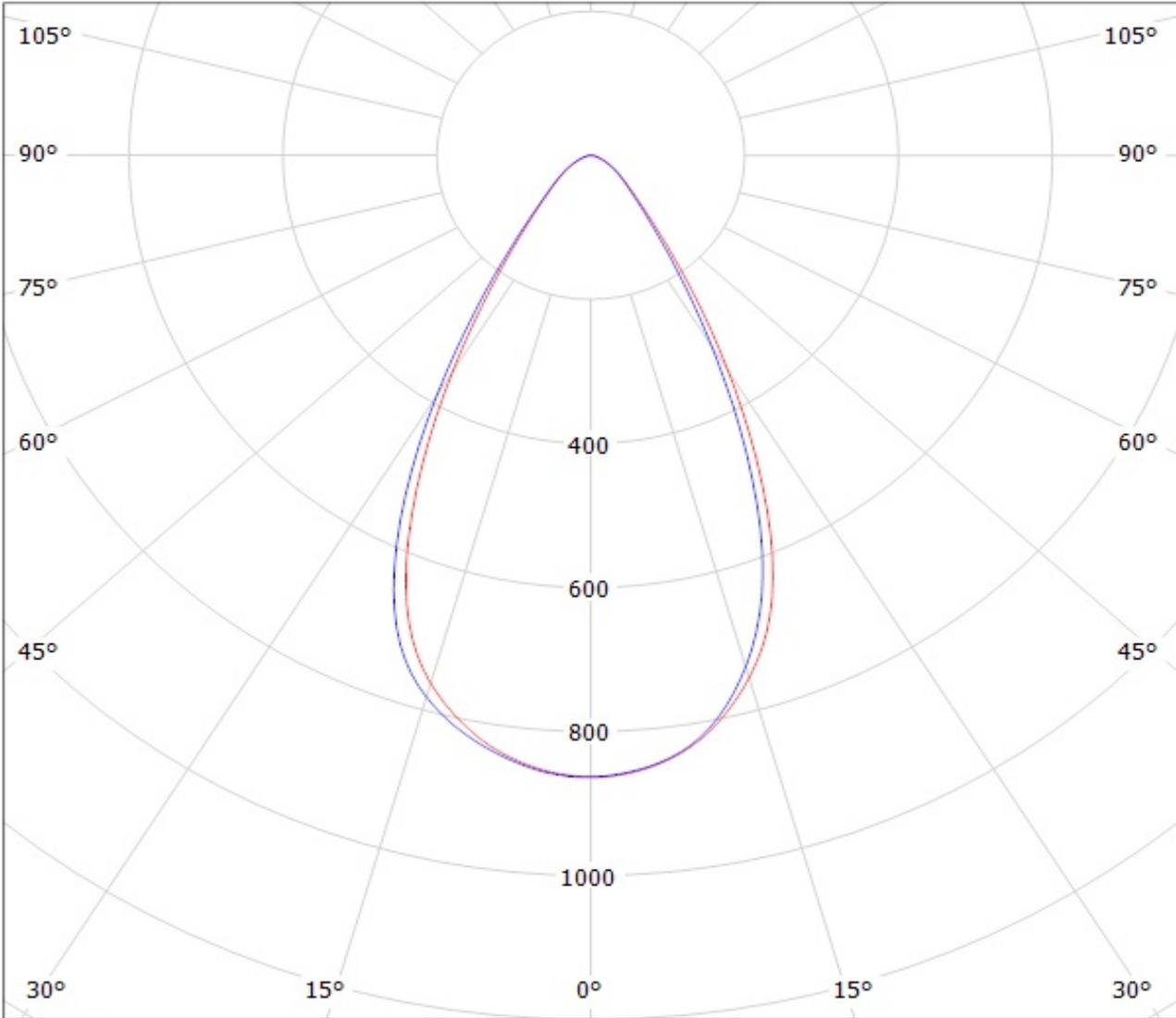
cd/klm

— C0 - C180

— C90 - C270

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

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



cd/klm

— C0 - C180

— C90 - C270

NOTE: The typical divergence will be changed by different color, chip size and chip position tolerance. The typical total divergence is the full angle measured where the luminous intensity is half of the peak value.