

DETAILS

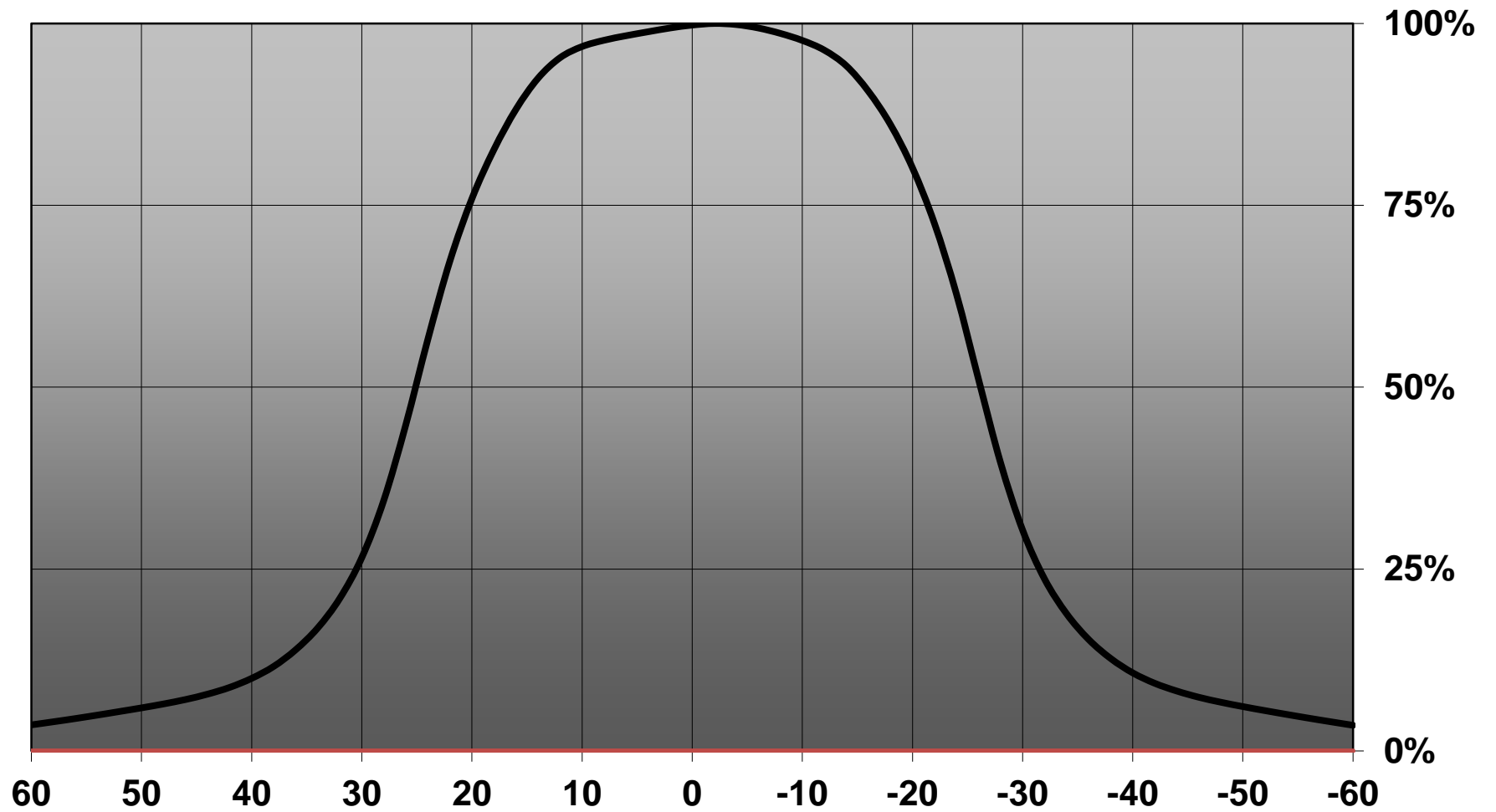
Product Number	C12361_HB-2X2-W
Family	High Bay
Type	Lens array
Color	clear
Diameter	50x50 mm
Height	8,5 mm
Style	square
Optic Material	PMMA
Holder Material	
Fastening	screw, pin, glue
Status	ready
ROHS Compliant	Yes
Date Updated	7/01/2016



OPTICAL PROPERTIES

LED	Viewing Angle	Light Beam	Efficiency	cd/lm	Connector
LUXEON A	sim: 52	HighBay	-	-	-
XP-E-HEW	sim:	HighBay	-	-	-
XP-E	sim: 50	HighBay	-	-	-
LUXEON Rebel	sim: 52	HighBay	-	-	-
NVSxx19A	sim: 50	HighBay	-	-	-
LUXEON H50-2	sim: 52	HighBay	sim: 91 %	sim: 4.700	-
Duris S8	sim: 56	HighBay	sim: 86 %	sim: 1.000	-
XQ-E HI	sim: 42	HighBay	sim: 93 %	sim: 1.370	-
XHP35 HI	sim: 52	HighBay	sim: 93 %	sim: 1.200	-
Oslon Square Gen3	sim: 50	HighBay	sim: 93 %	sim: 1.300	-
Duris P8	sim: 48	HighBay	sim: 93 %	sim: 1.200	-
Oslon SSL 80	43 deg	HighBay	89 %	1.260	-
Z8Y15	45 deg	HighBay	79 %	0.900	-
LUXEON Z ES	46 deg	HighBay	87 %	1.180	-
Z8Y19	46 deg	HighBay	79 %	0.900	-
NCSxx19A	48 deg	HighBay	85 %	1.100	-
Z5	48 deg	HighBay	88 %	1.000	-
XB-D	48 deg	HighBay	86 %	0.960	-
TL1L4	48 deg	HighBay	81 %	0.980	-
LH351A(3535)	49 deg	HighBay	89 %	1.000	-
XT-E	50 deg	HighBay	87 %	0.970	-
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	-

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



D

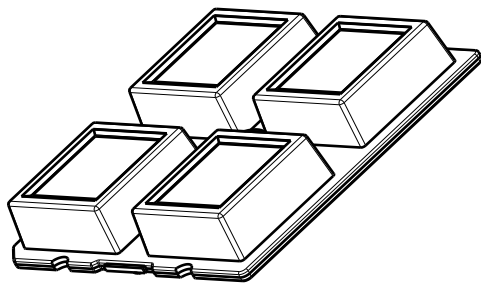
C

B

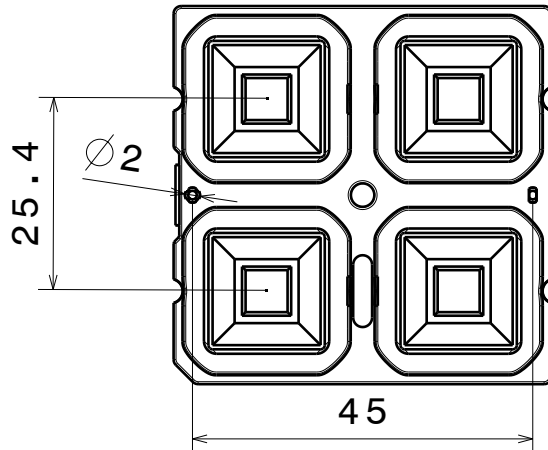
A

4

4



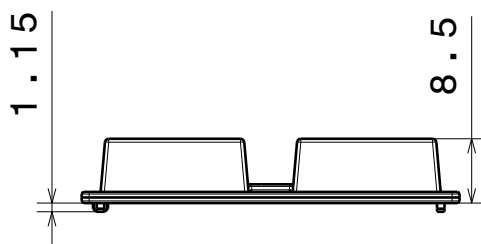
Isometric view



Bottom view

3

3



Front view

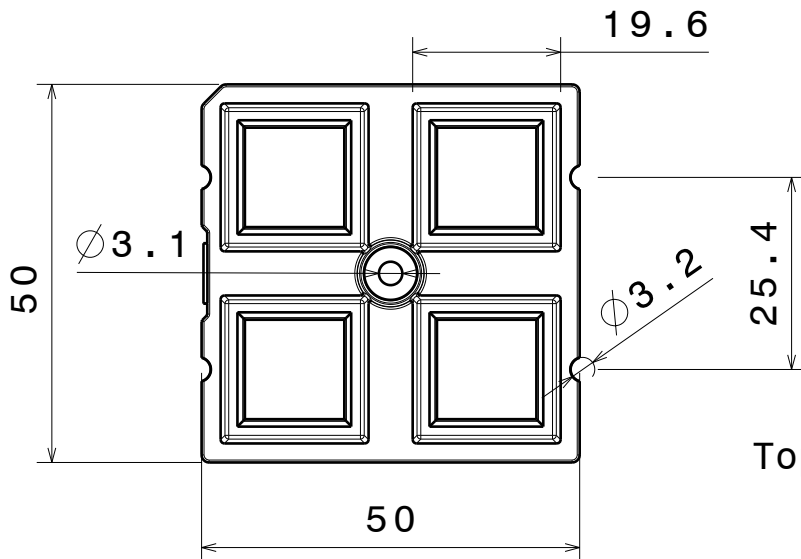
2

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

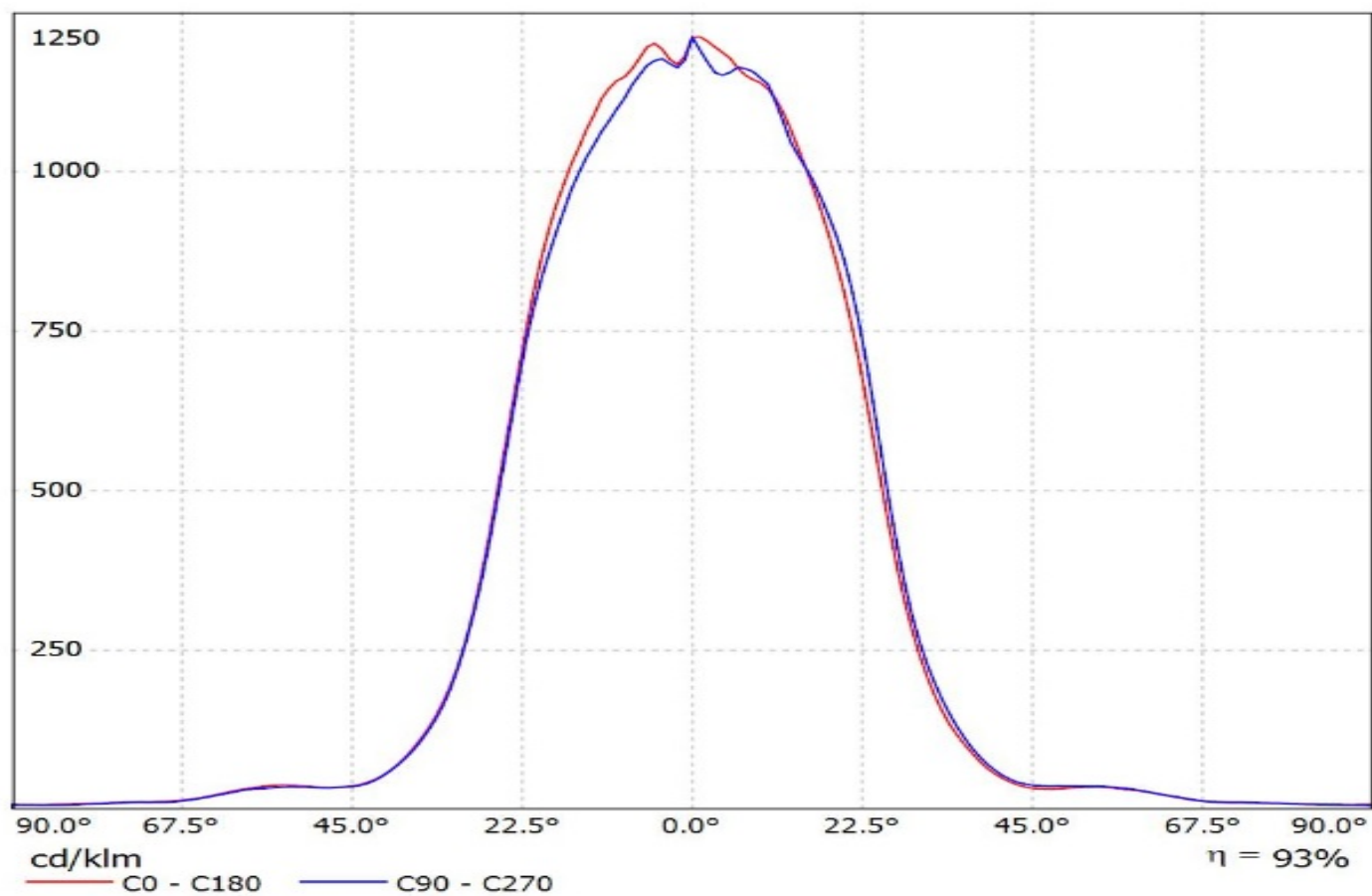
SCALE	1:1	WEIGHT	-	SHEET	1/1
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D

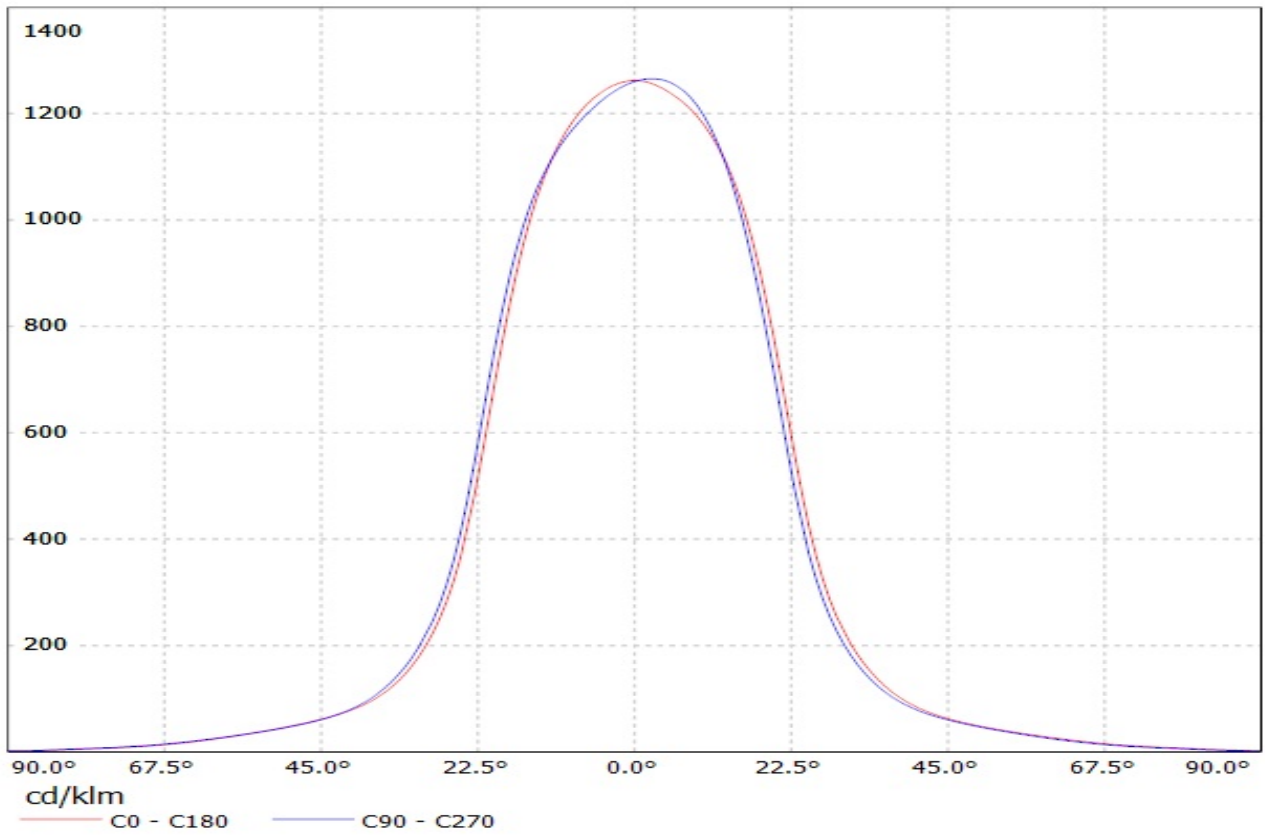
A

1

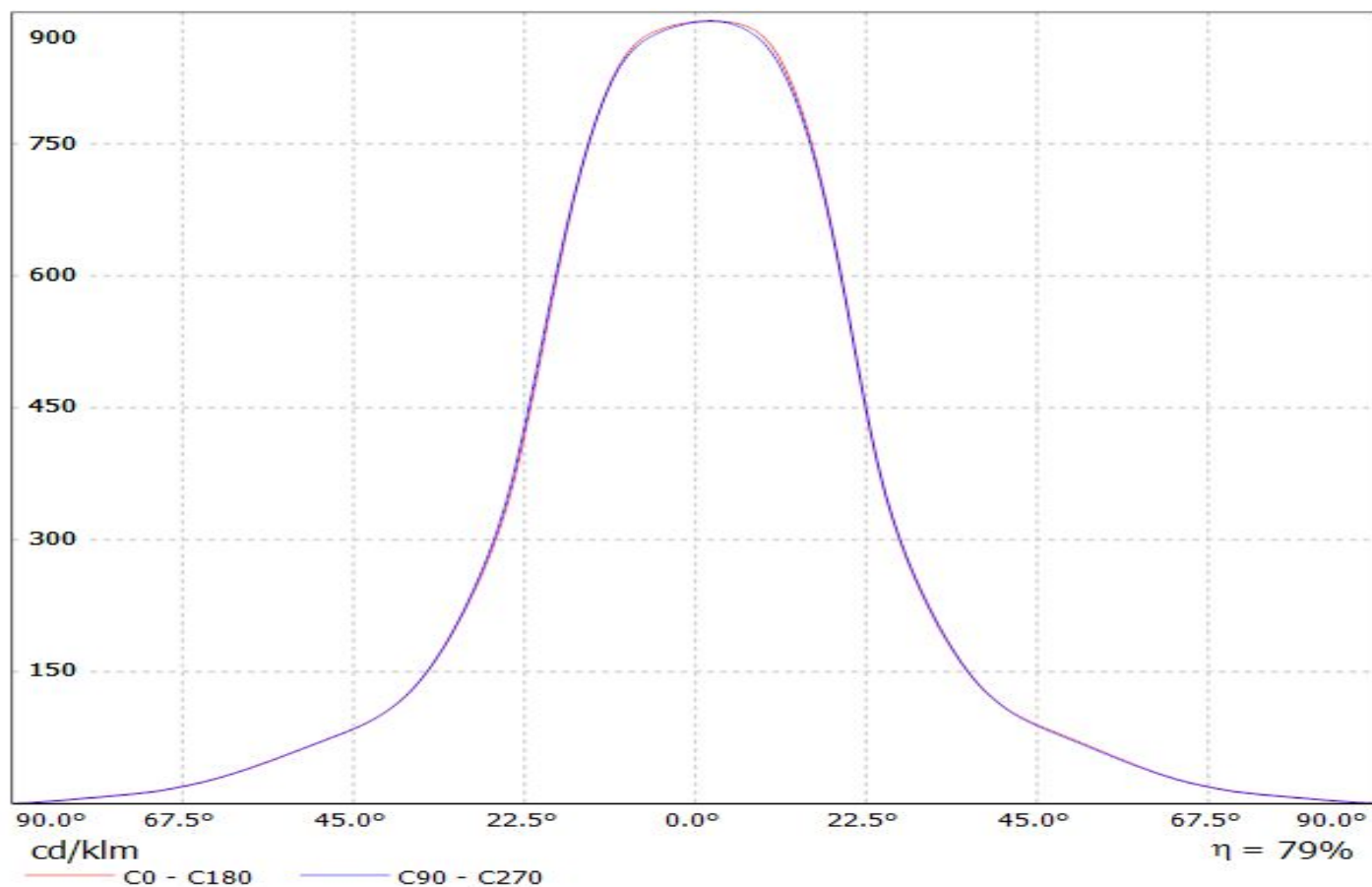
Luminaire: Ledil Oy C12361_HB-2X2-W_(Duris_P8)_SIMULATED
Lamps: 1 x Osram Duris P8



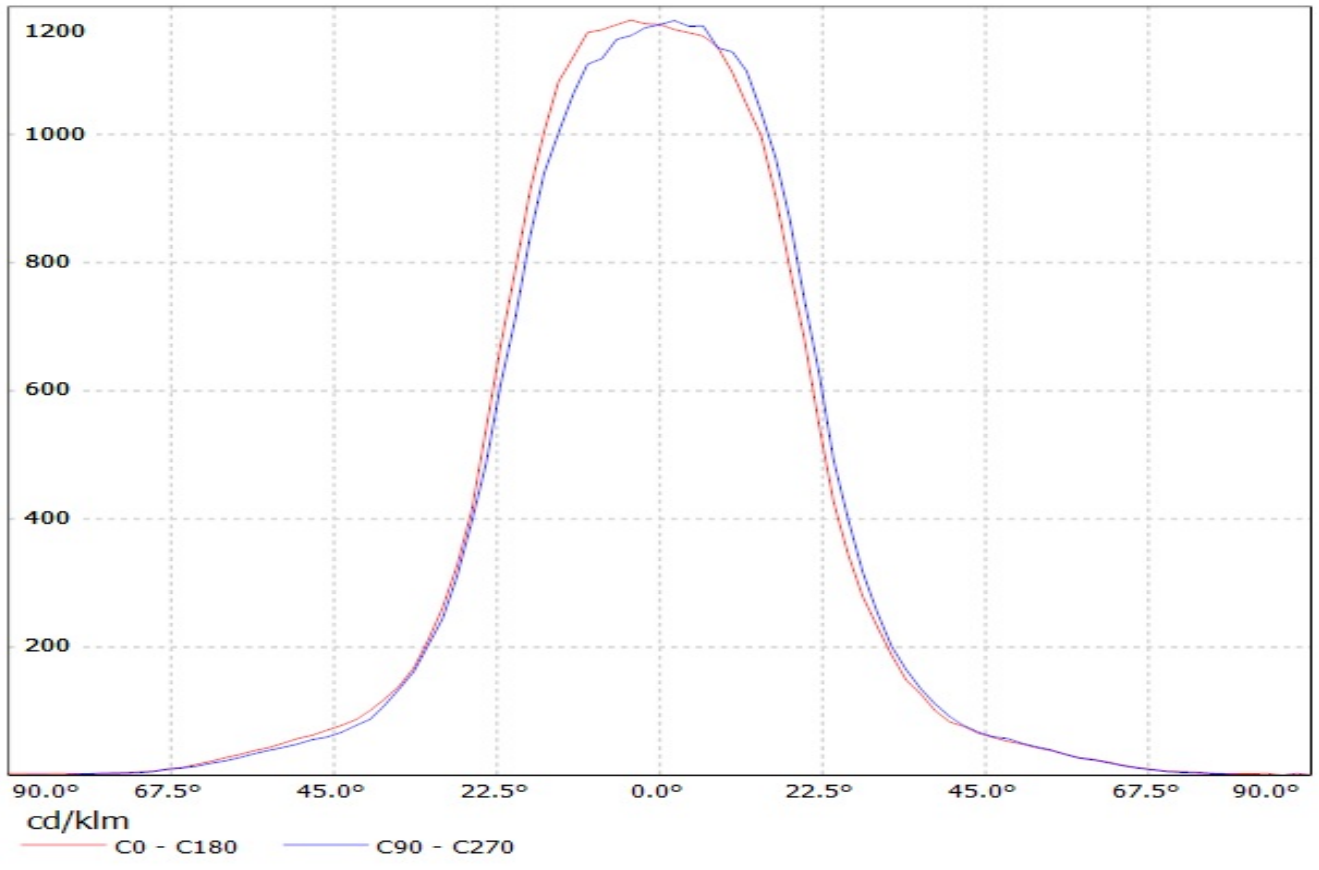
Luminaire: LEDIL OY C12361_HB-2X2 (SSL80) Efficiency=89%
Lamps: 1 x Osram SSL80 (340lm @ 250mA)



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

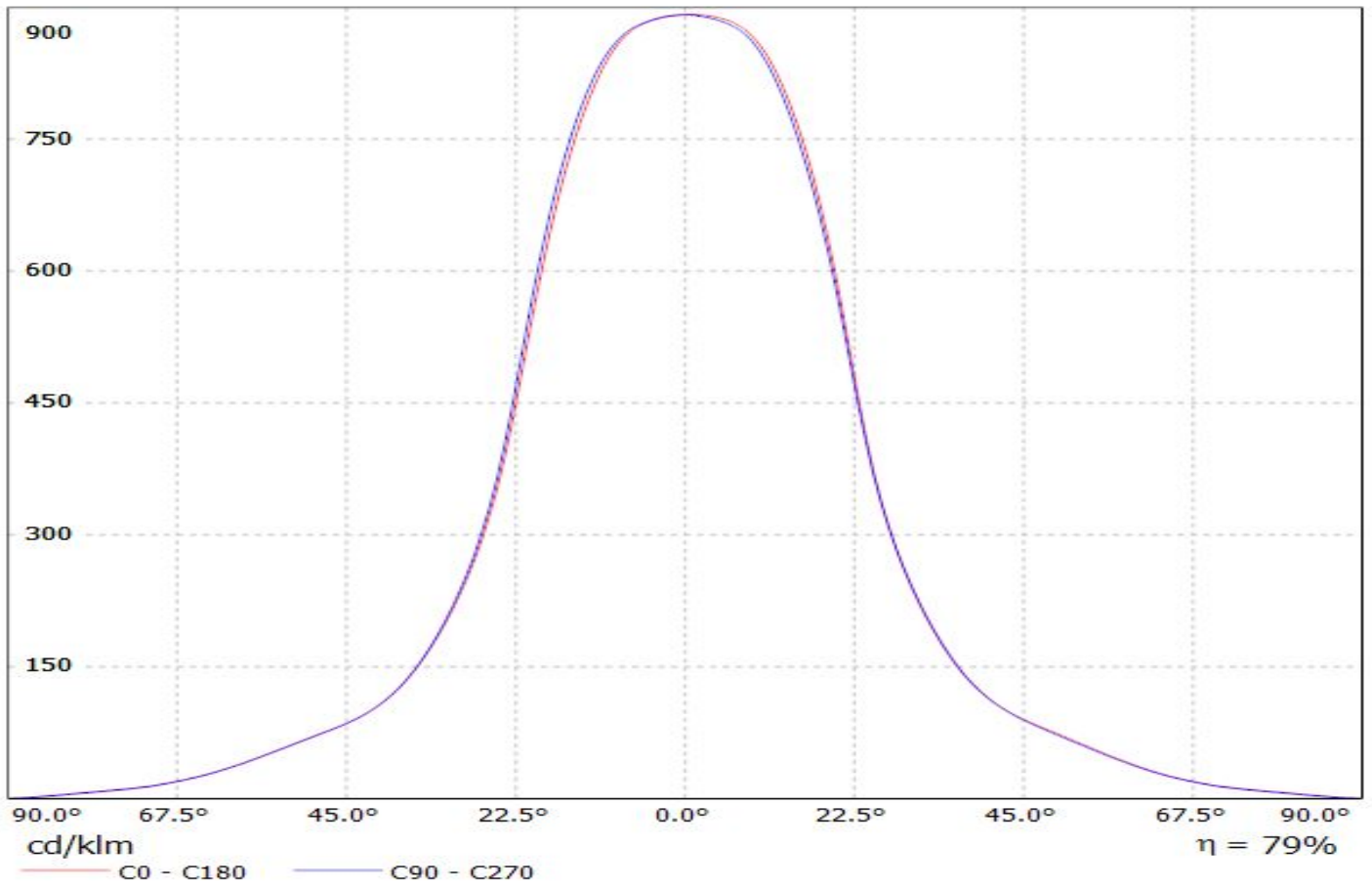


Luminaire: Ledil Oy C12361_HB-2X2-W_(Luxeon_Z_ES) Efficiency=87%
Lamps: 1 x Luxeon Z ES 2x2 (LXZ2-3090) 209lm @ 250mA CCT=3000K P=2.8W I=250mA

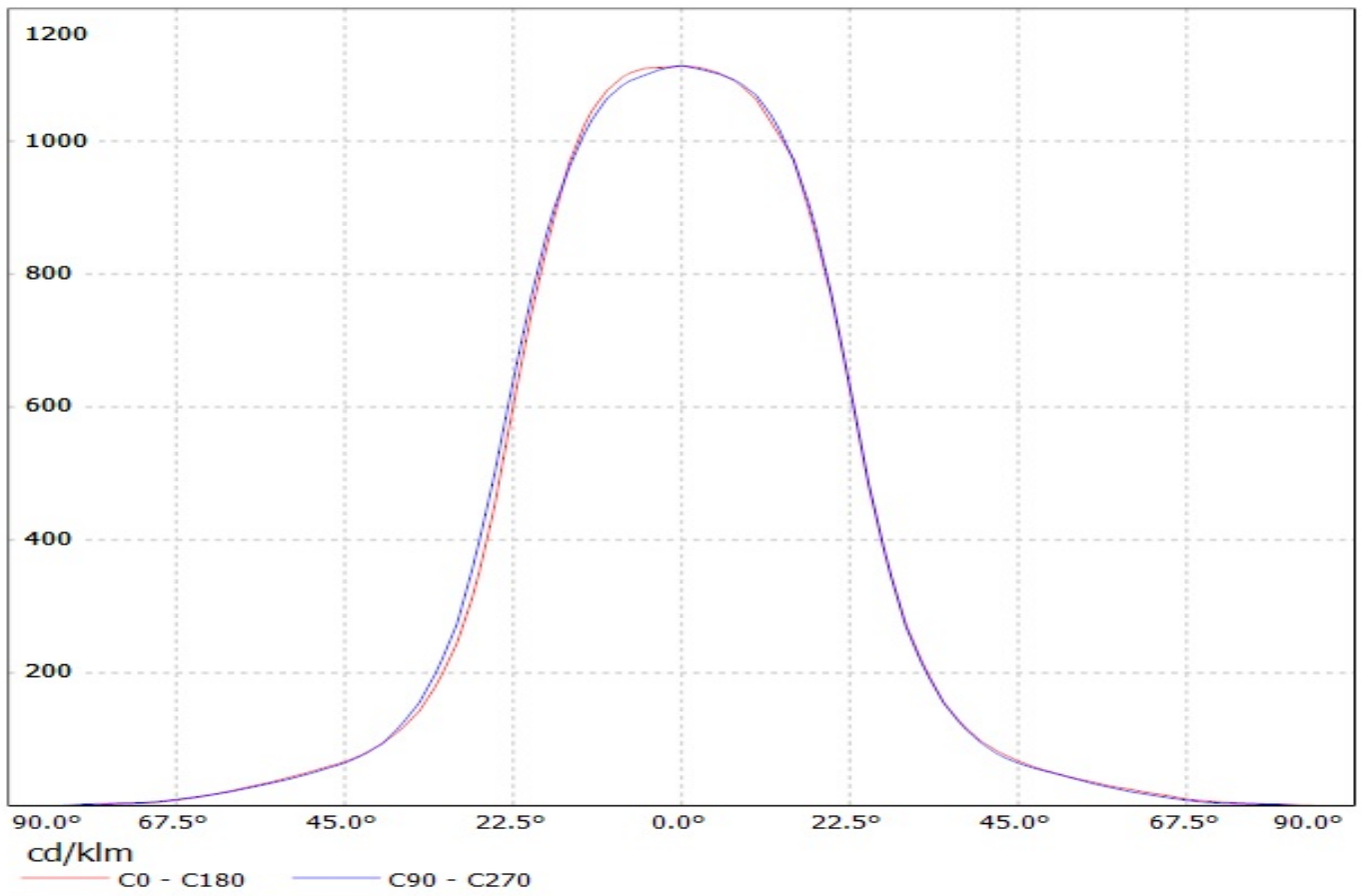


Luminaire: LEDiL Oy C12361_HB-2X2-W_(WICOP2_Z8Y19)

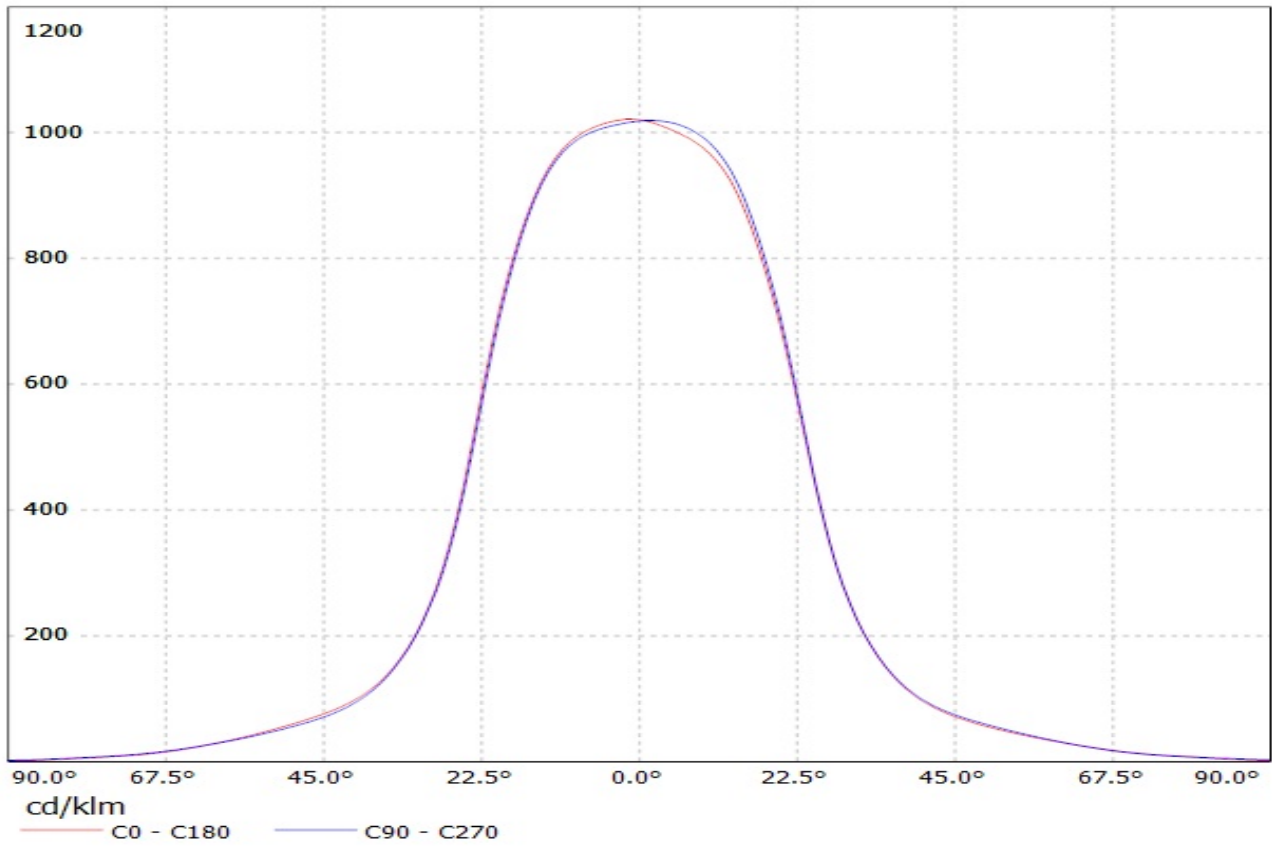
Lamps: 1 x SEOUL_WICOP2_Z8Y19_450.124lm@250mA_P=2.8579W_I=0.250A



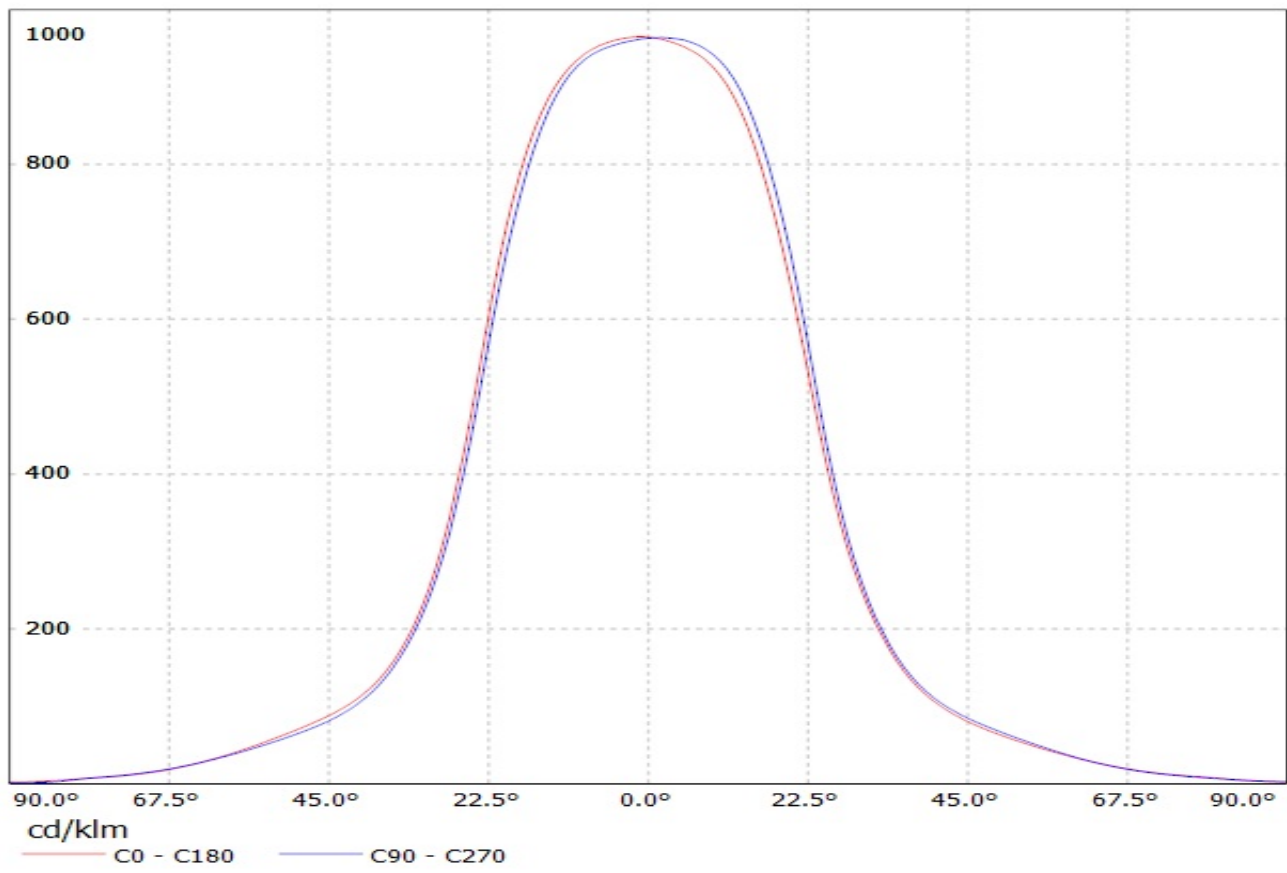
Luminaire: LEDil Oy C12361_HB-2x2-W_(NCSxx19A) Efficiency=85%
Lamps: 1 x Nichia NCSL119AT-H1) 229lm @ 250mA CCT=2800K P=3.1W I=250mA



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



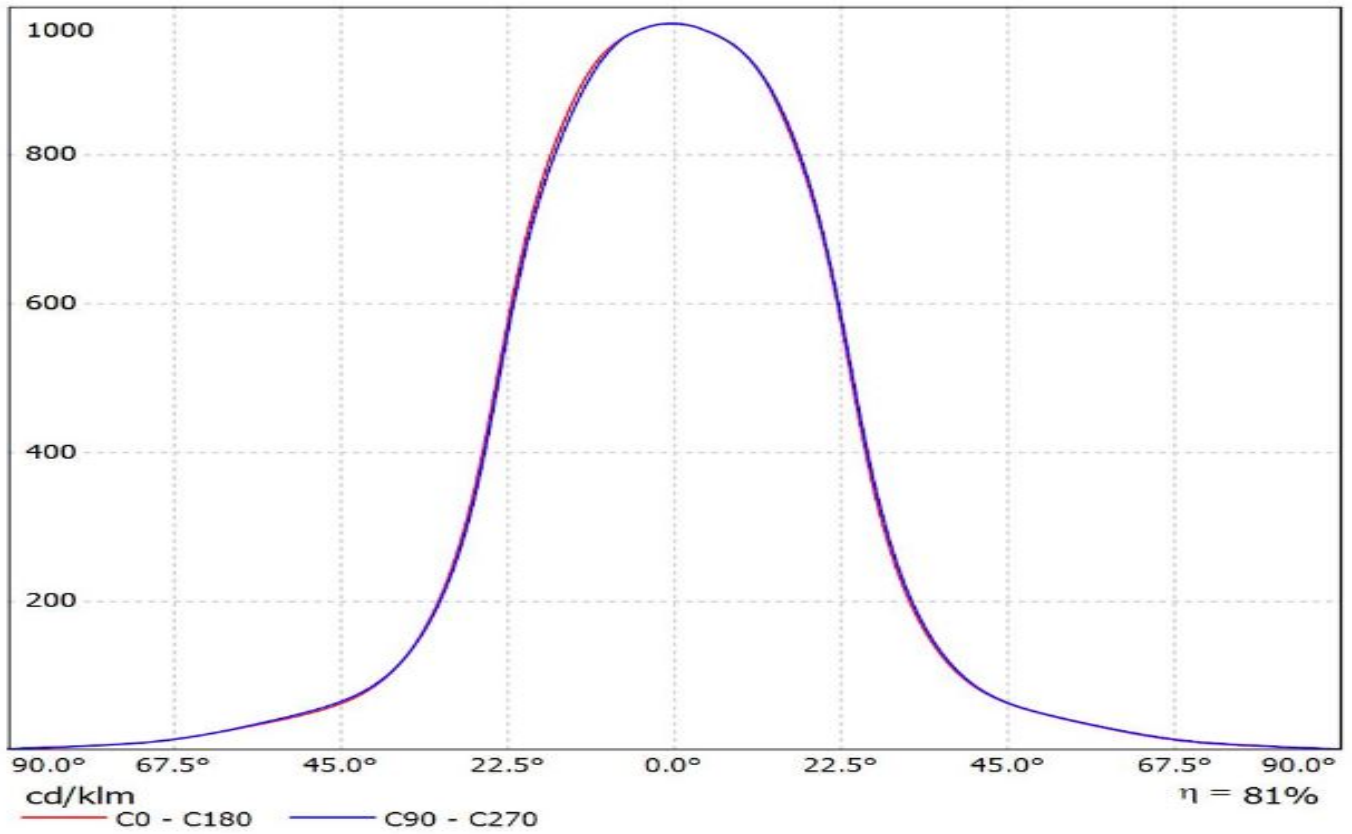
Luminaire: LEDIL OY C12361_HB-2X2 (XB-D) Efficiency=86%
Lamps: 1 x Cree XB-DE (371lm @ 250mA)



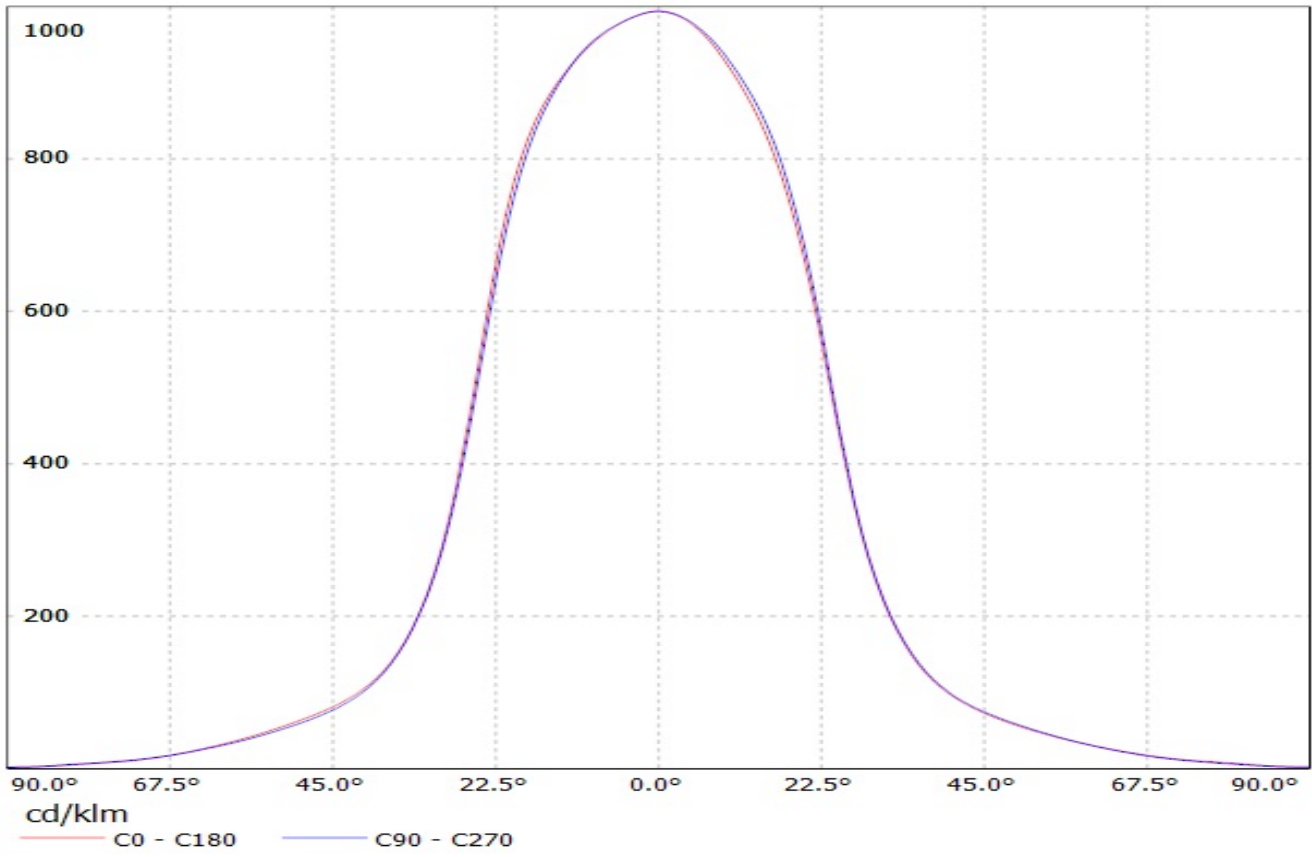
Ledil C12361_HB-2X2-W_(TL1L4) / LDC (Linear)

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

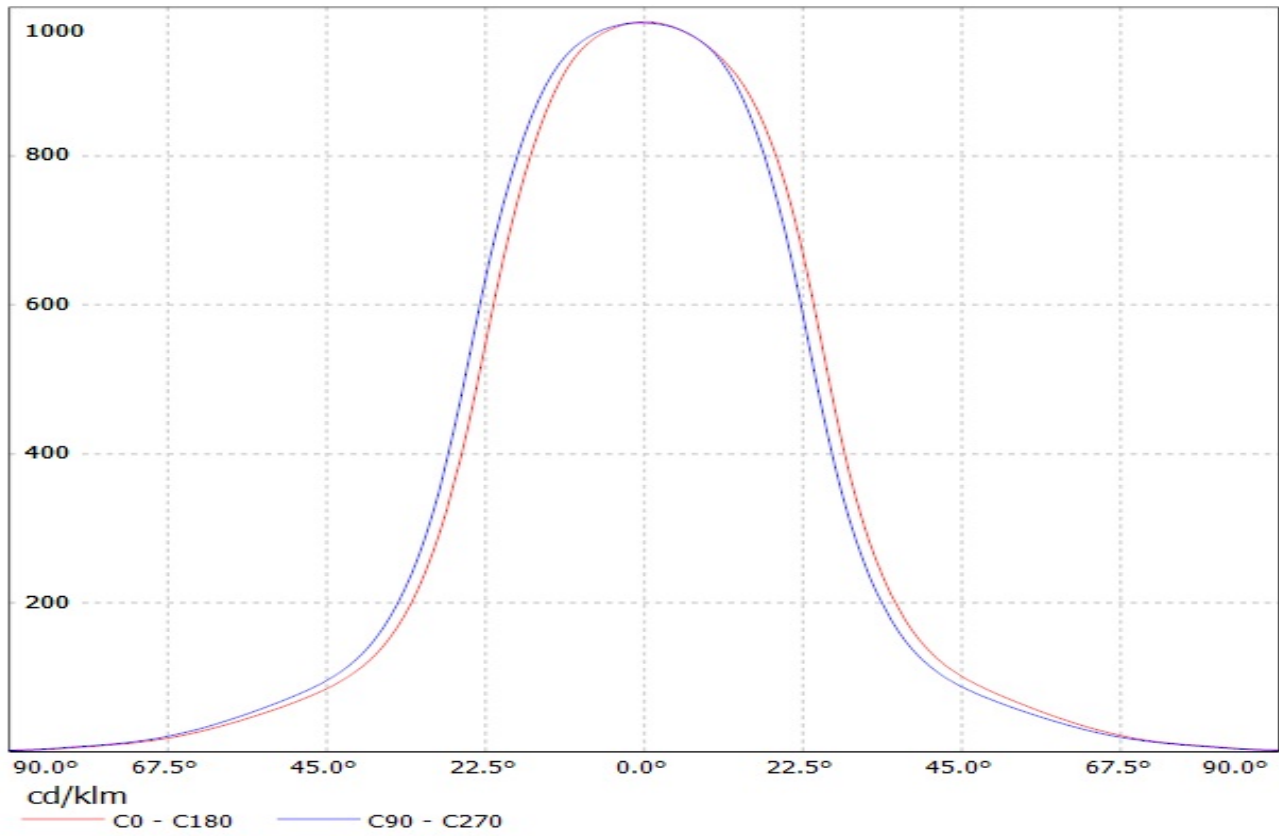
Lamps: 1 x Toshiba_TL1L4_2x2_(TL1L4-DW0)_472.639lm@250mA_CCT=6500K_P=2.9W_I=0.25A



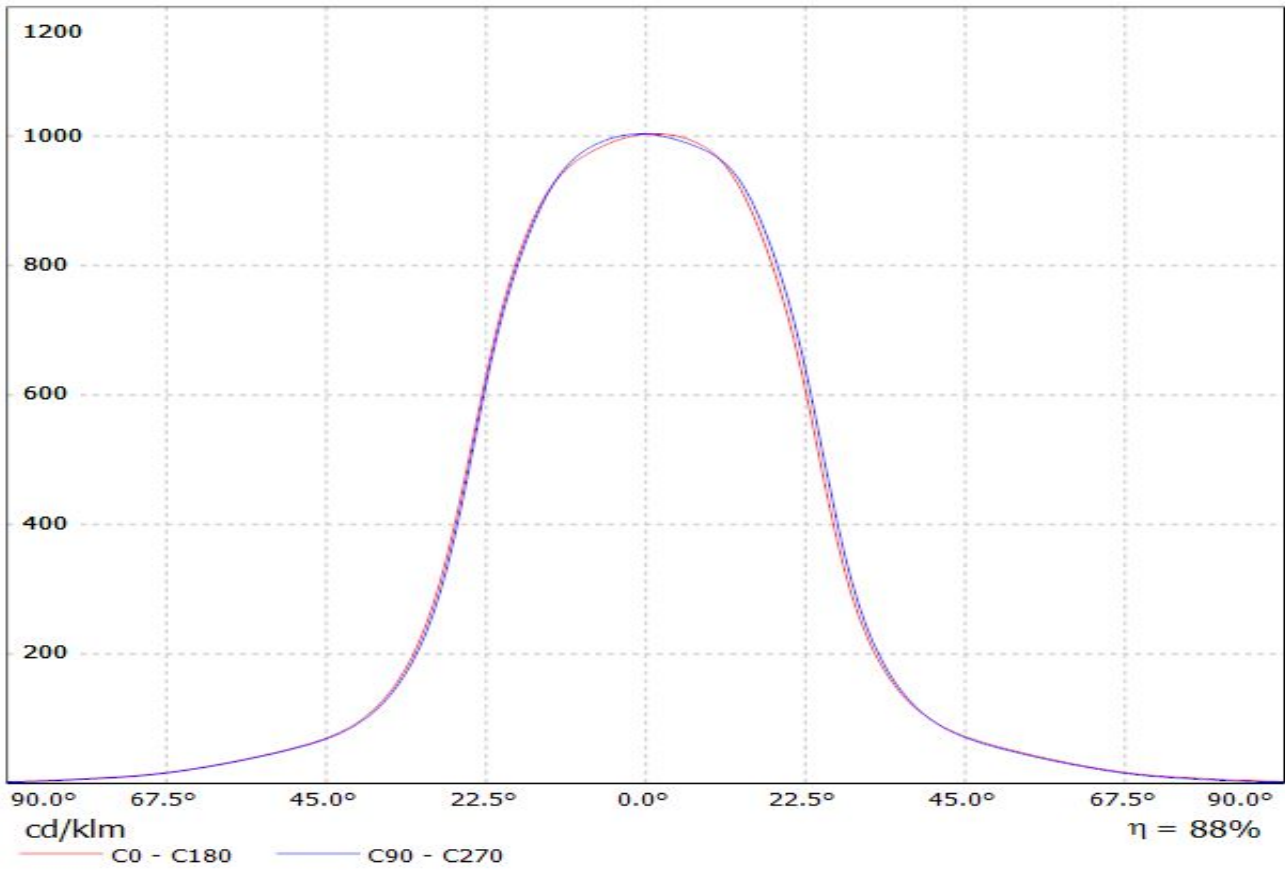
Luminaire: LEDIL OY C12361_HB-2X2 (3535) Efficiency=89%
Lamps: 1 x SAmSung 3535 (353lm @ 250mA)



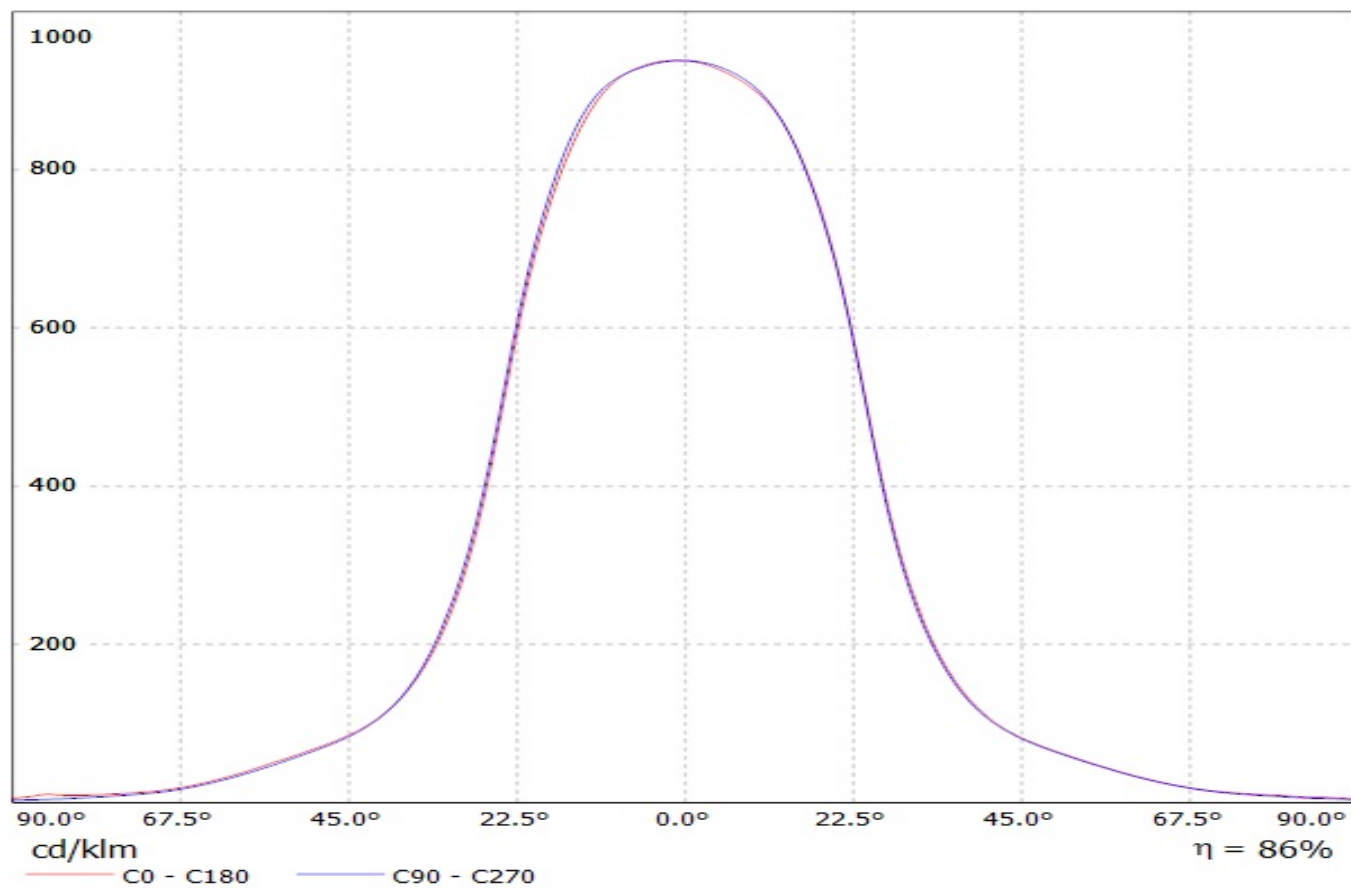
Luminaire: LEDIL OY C12361_HB-2X2 (XT-E AWT) Efficiency=89%
Lamps: 1 x Cree XT-E AWT (390lm@250mA)



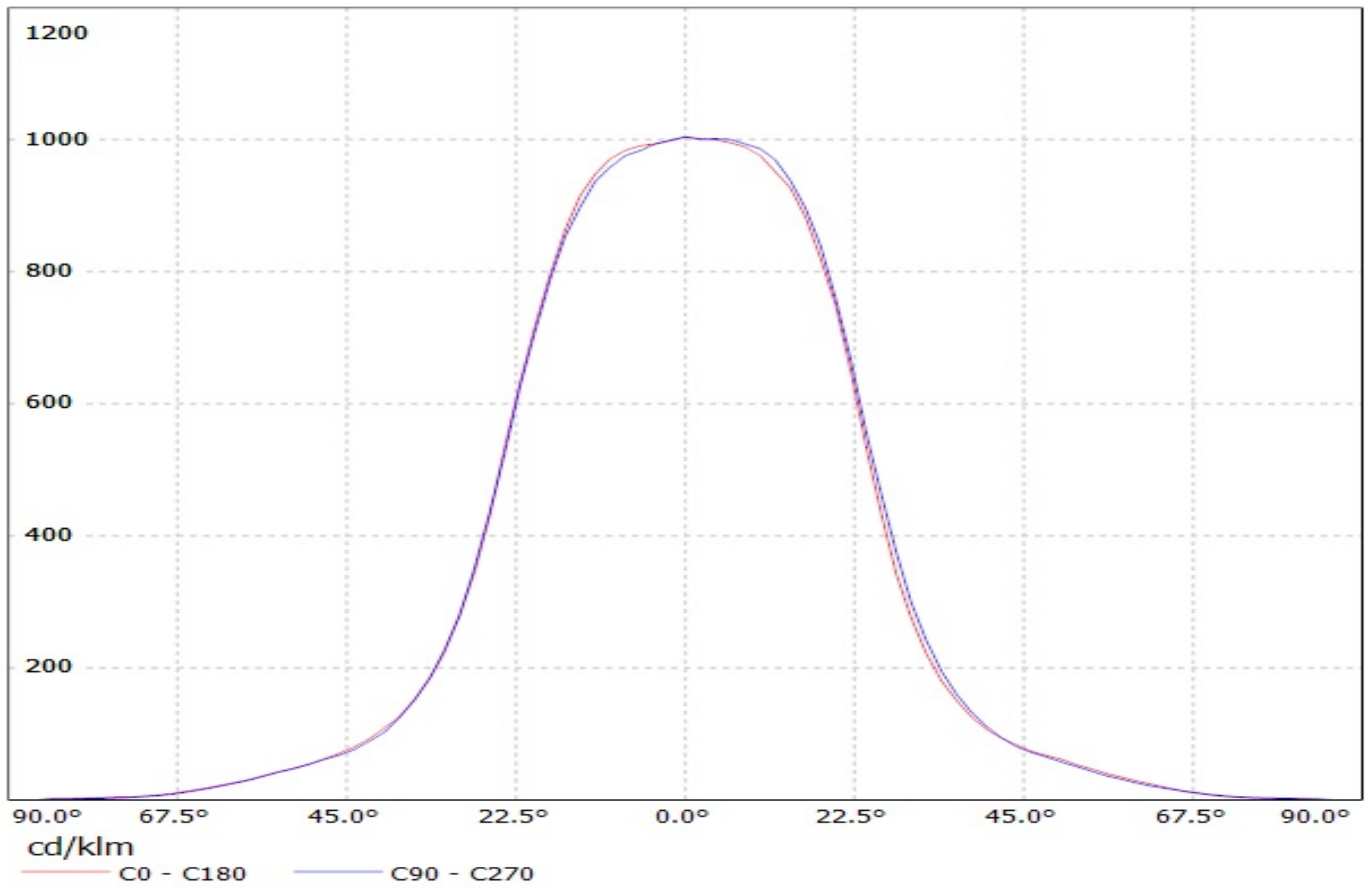
Luminaire: LEDiL Oy C12361_HB-2X2-W_(Luxeon_TX) Eff.87.5%
Lamps: 1 x Luxeon_TX_2x2_320.412lm@250mA_P=2.79013W_I=249.9mA



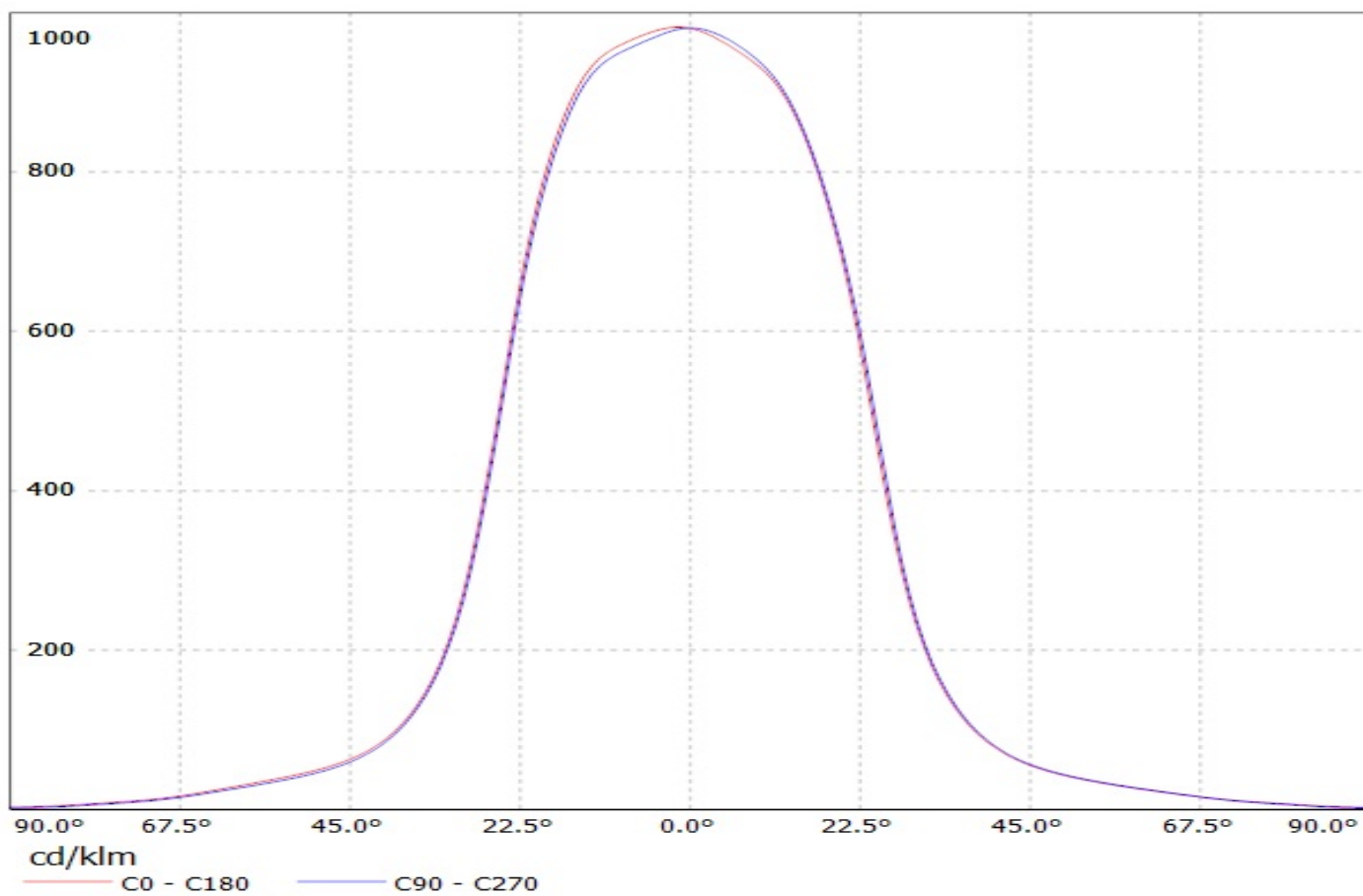
Luminaire: LEDiL Oy C12361_HB-2X2-W_(LUXEON_Q) Eff.86.3%
Lamps: 1 x LUXEON_Q_2x2_(LHQ-3080)_298.363lm@250mA_P=2.87385W_I=249.9mA



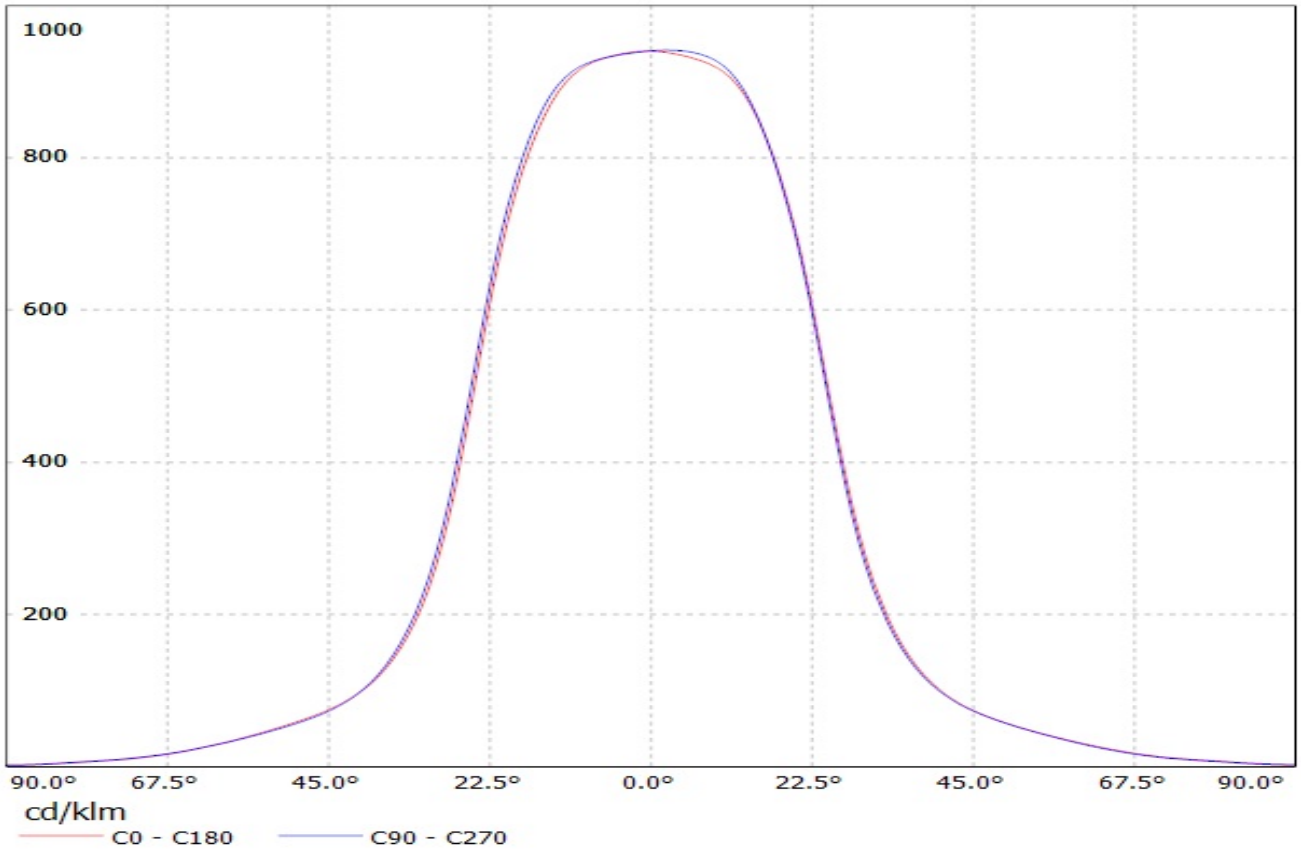
Luminaire: LEDil Oy C12361_HB-2x2-W_(NCSxx19B) Efficiency=85%
Lamps: 1 x Nichia NCSxx19b (NCSW119BE) 425lm @ 250mA CCT=5400K P=3.1W I=250mA



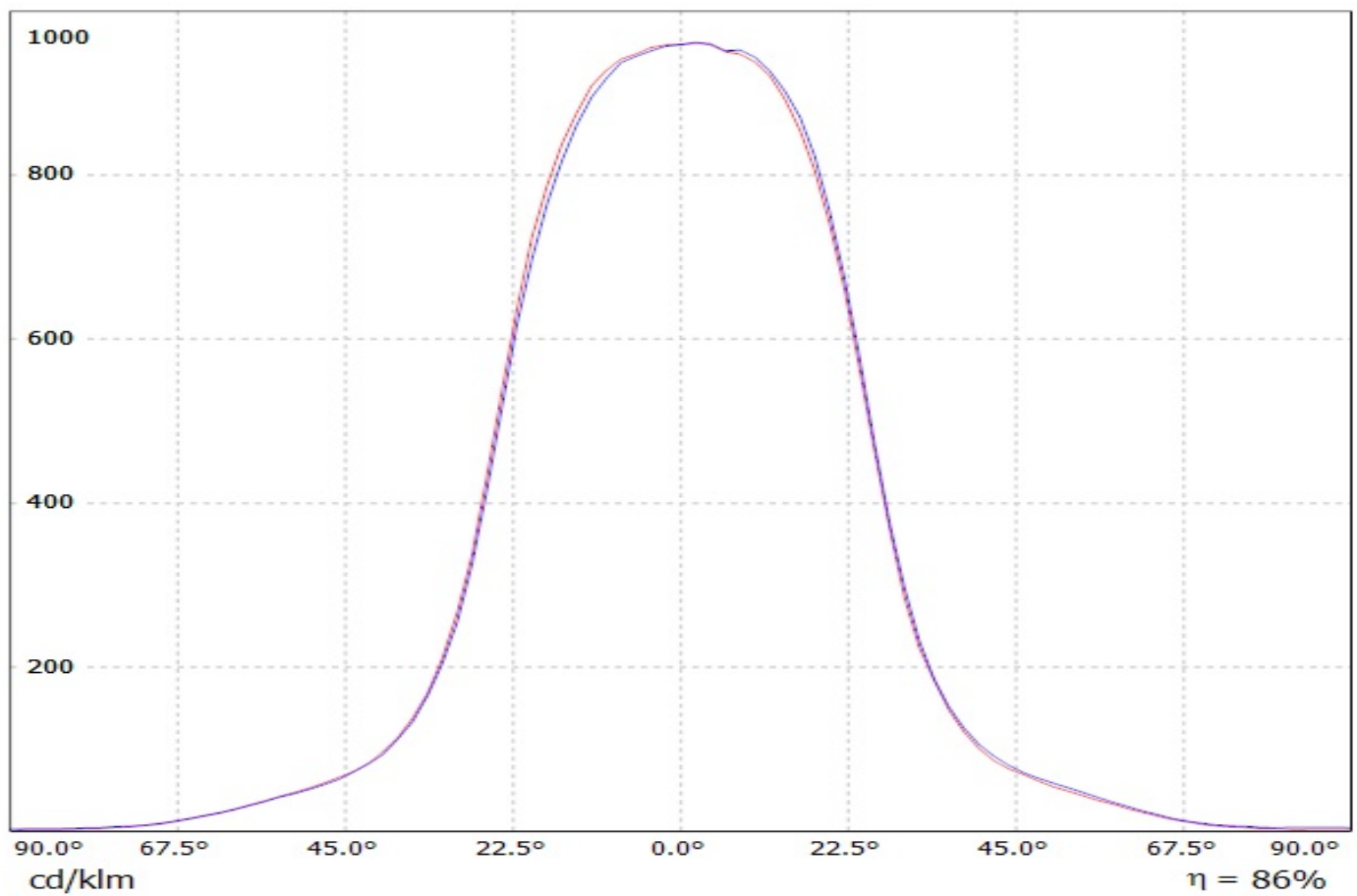
Luminaire: LEDiL Oy C12361_HB-2X2-W_(LH351Z) Eff.87.4%
Lamps: 1 x SAMSUNG_LH351Z_2x2_359.49lm@250mA_P=2.86371W_I=249.8mA



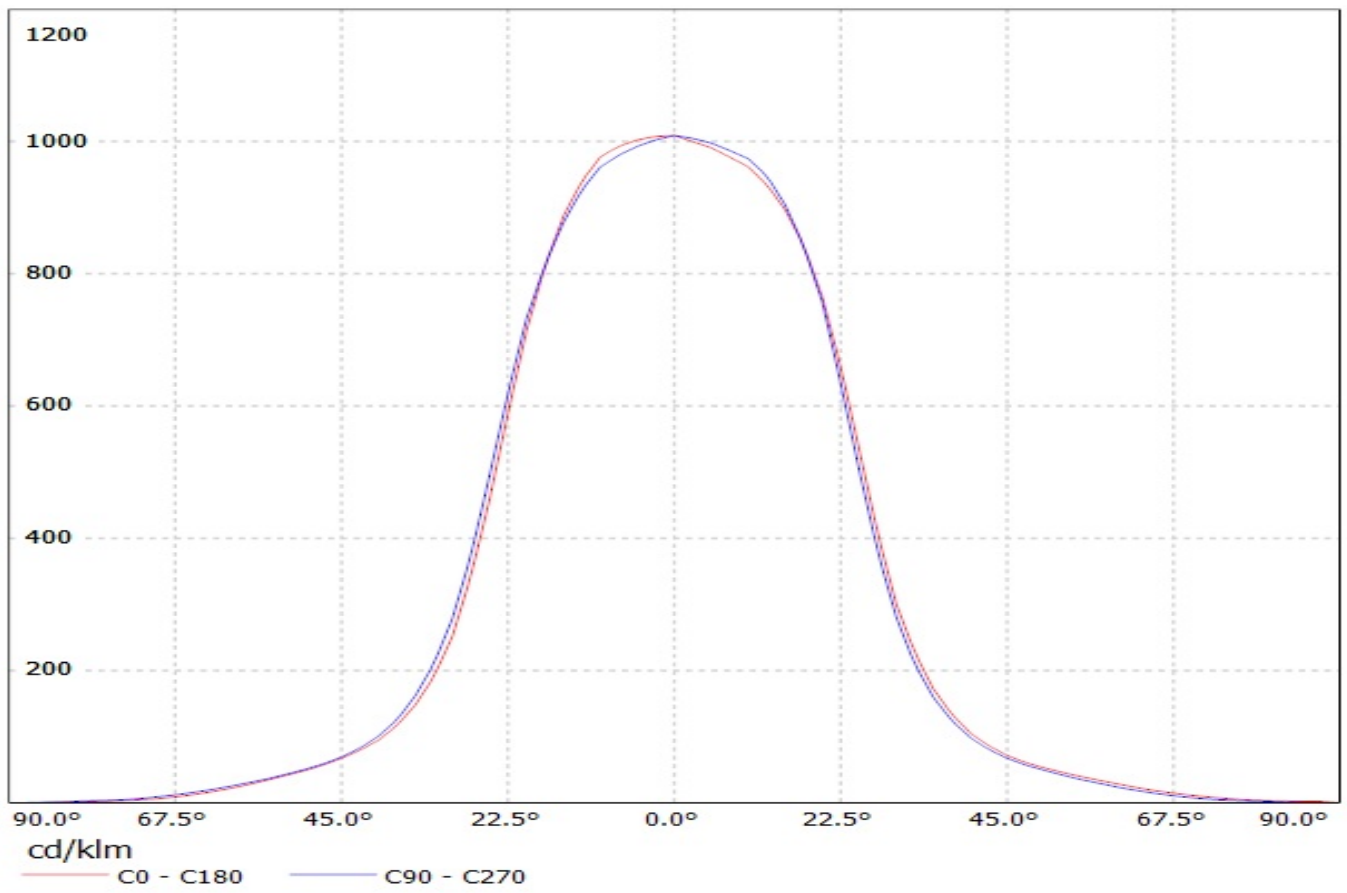
Luminaire: LEDIL OY C12361_HB-2X2 (RE-ES) Efficiency=87%
Lamps: 1 x Luxeon Rebel-ES (339lm @ 250mA)



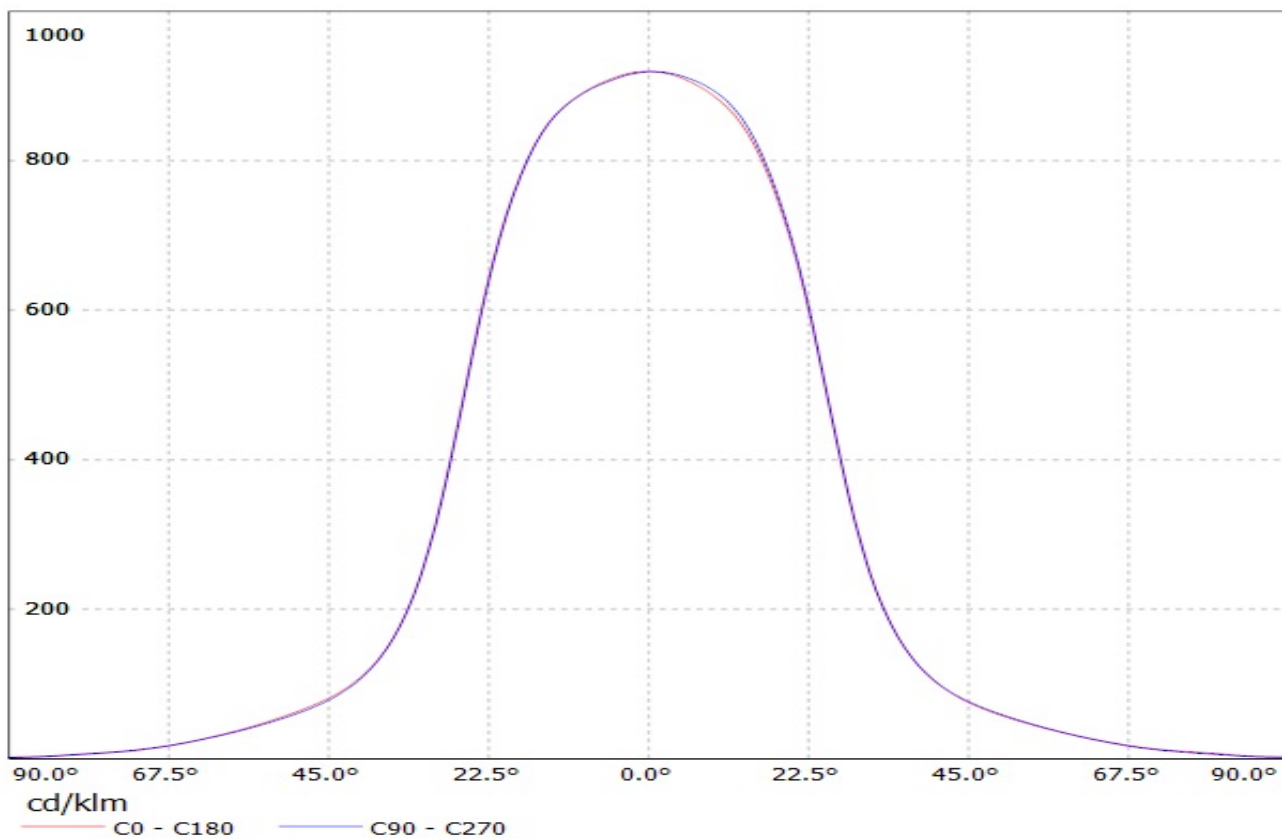
Luminaire: Ledil Oy C12361_HB-2X2-W_(NVS19B) Efficiency=85%
Lamps: 1 x Nichia NVS19B (NVSL219BE) 308lm @ 250mA CCT= P=2.89W I=250mA



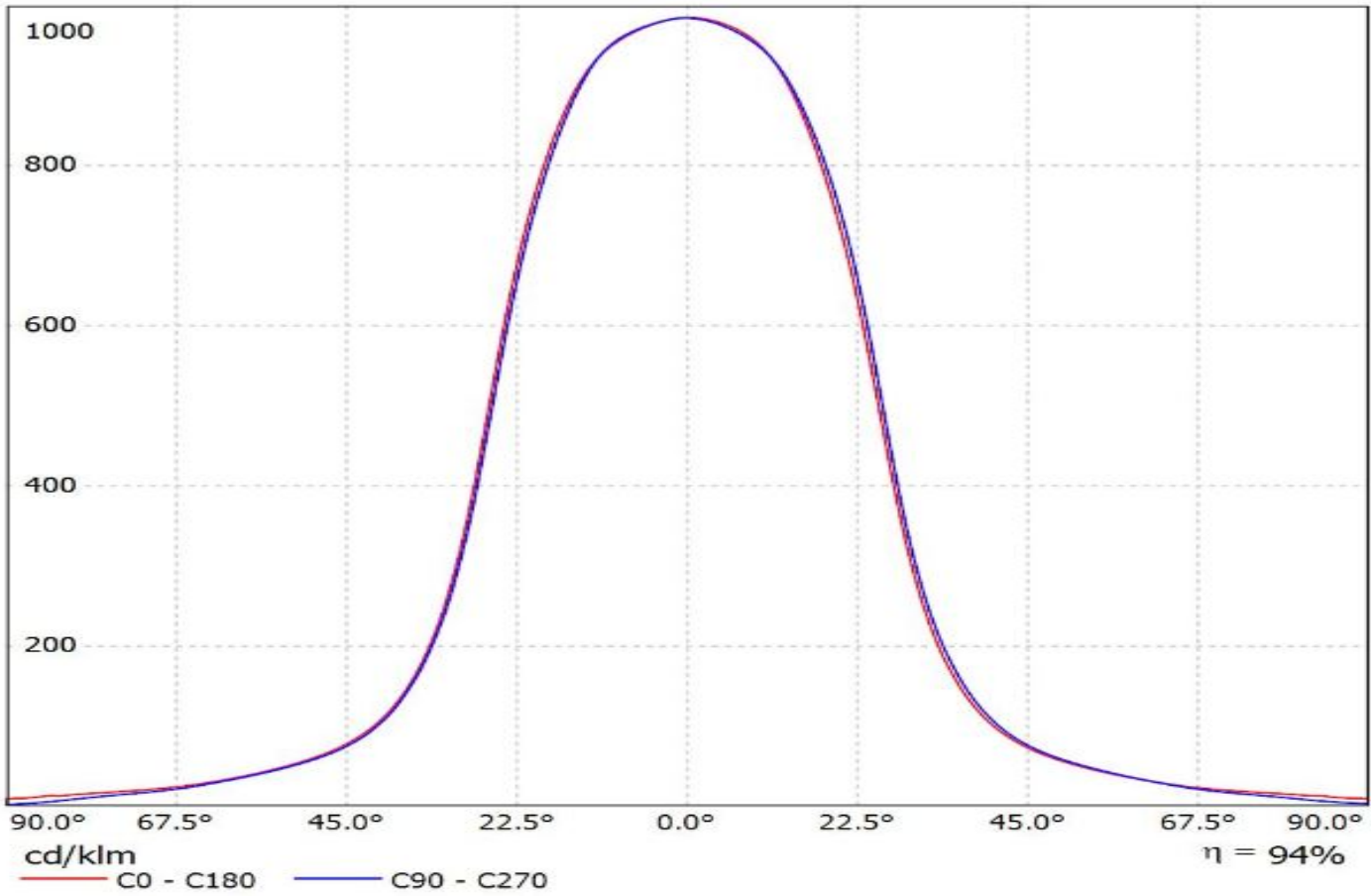
Luminaire: LEDil Oy C12361_HB-2X2-W_(Z5M1) Efficiency=85%
Lamps: 1 x Seoul Z5M1 (SZ5-M1-WN-C8) 379lm @ 250mA CCT=4600K P=2.9W I=250mA



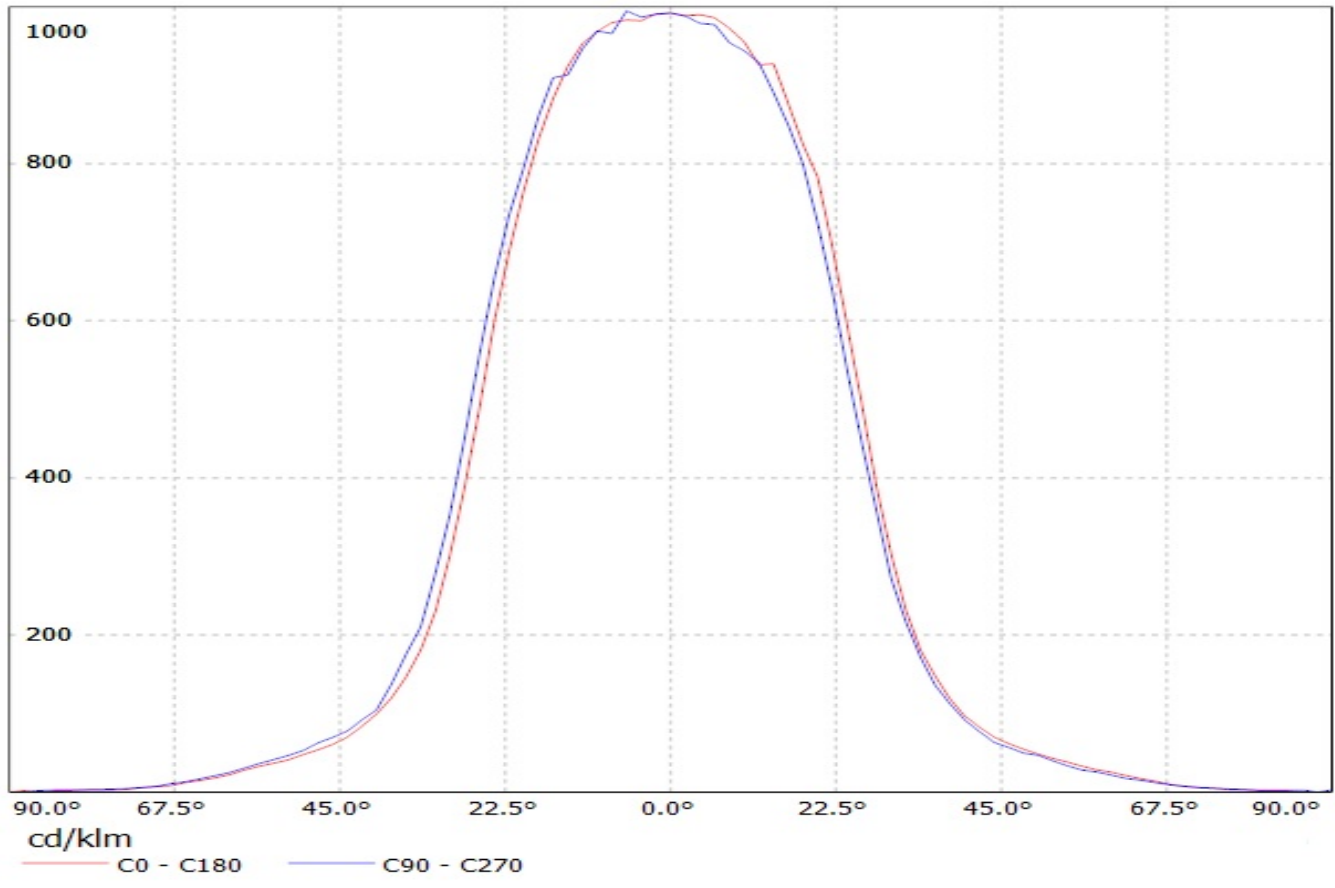
Luminaire: LEDIL OY C12361_HB-2X2 (XP-G) Efficiency=88%
Lamps: 1 x Cree XP-G (257lm @ 250mA)



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

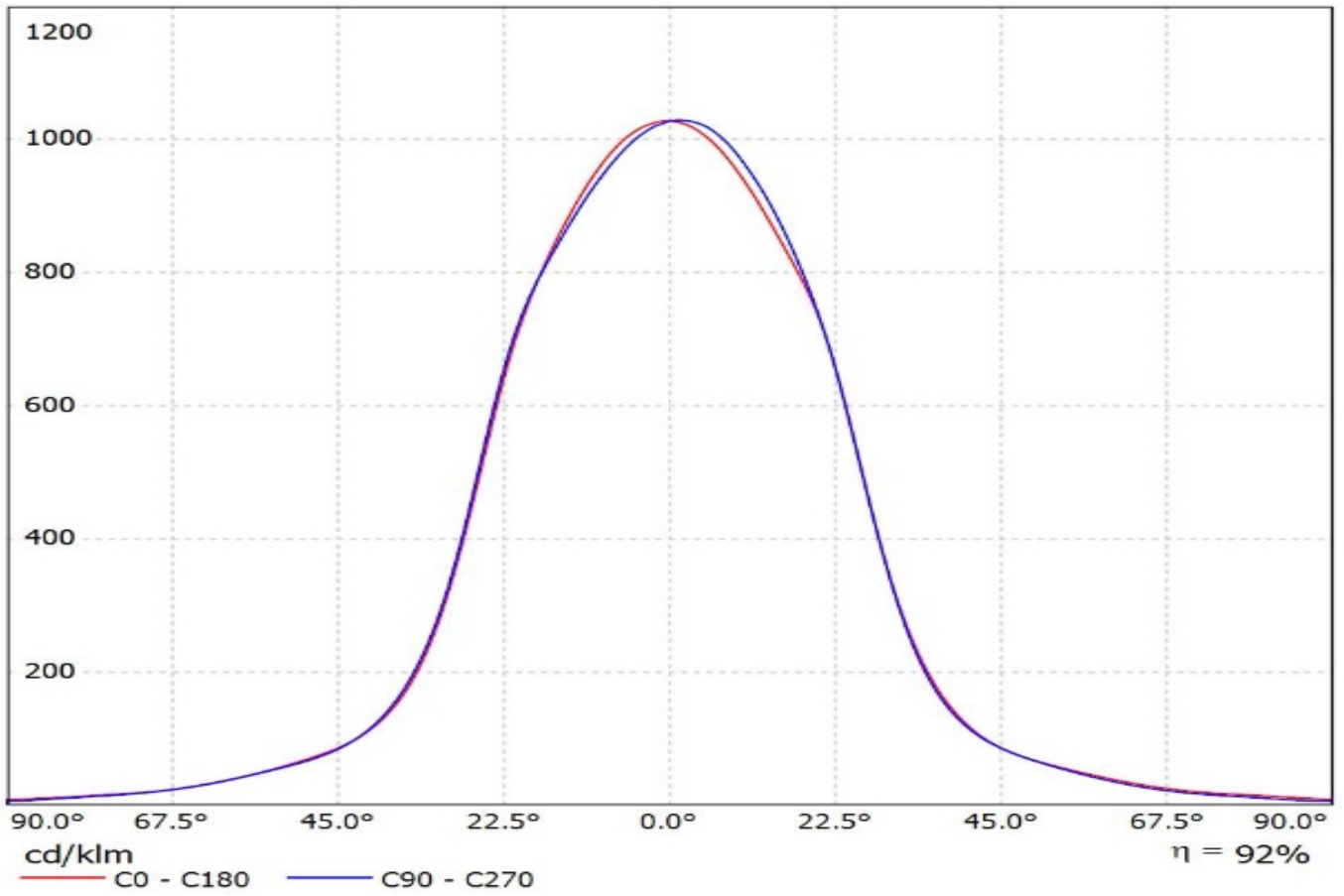


Luminaire: Ledil Oy C12361_HB-2X2-W_(3535_Ceramic_gen2) Efficiency=86%
Lamps: 1 x LG 3535 Ceramic gen2 (PKG5700K) 461lm @ 250mA CCT=6600K P=2.9W I=250mA

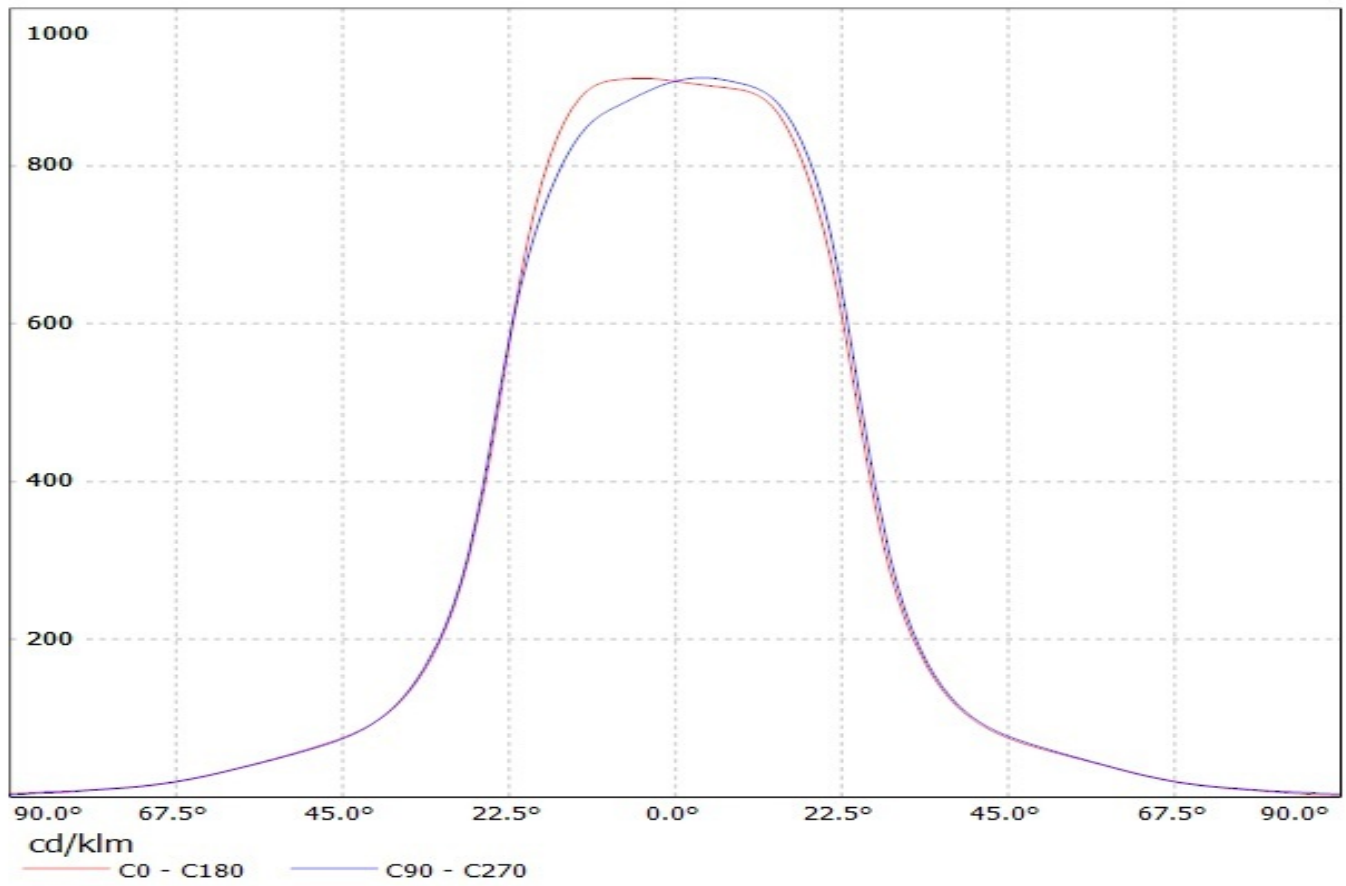


Luminaire: Ledil C12361_HB-2X2-W_(Luxeon_MZ)

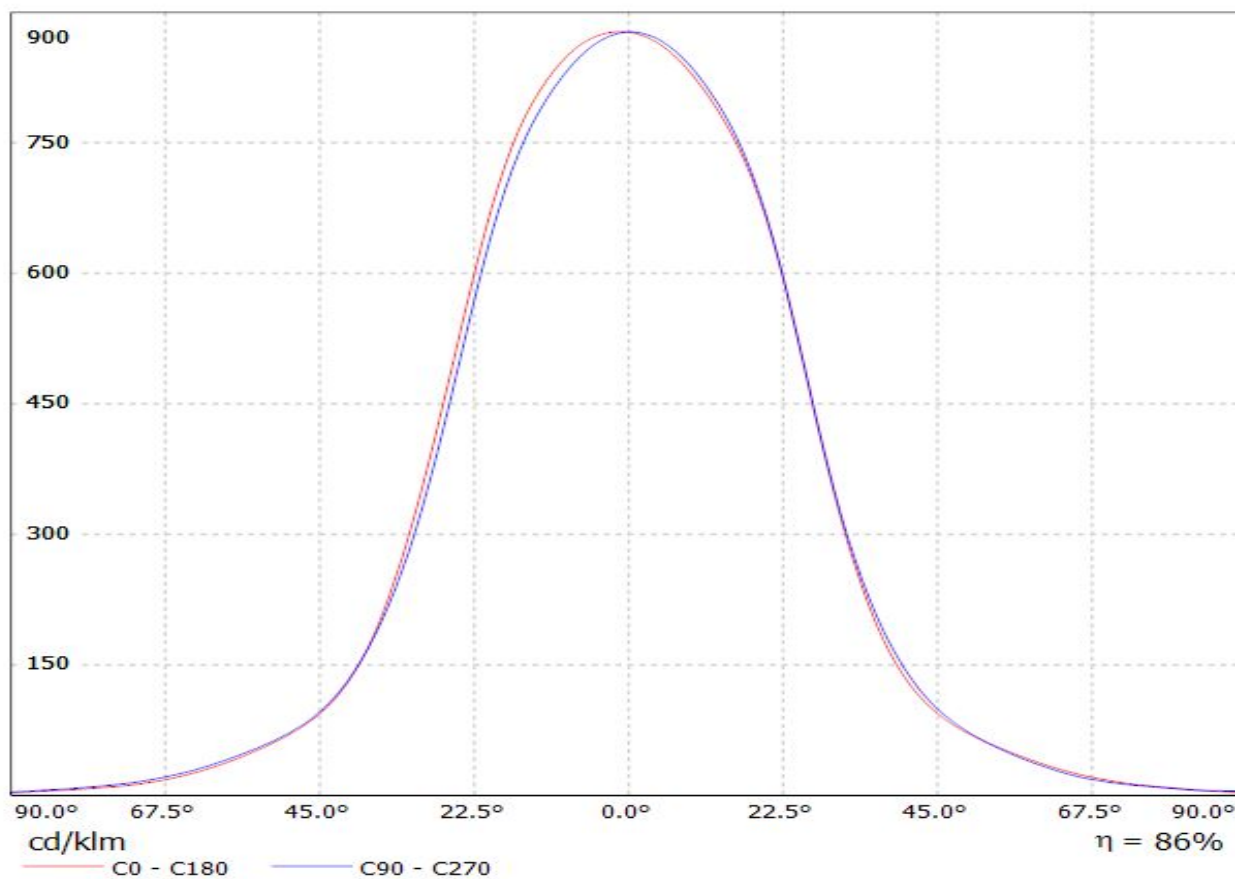
Lamps: 1 x Philips_Lumileds_Luxeon_MZ_(LMZ7-QW57)_(2x2)_427.268lm@250mA_P=2.734W_I=0.2500A



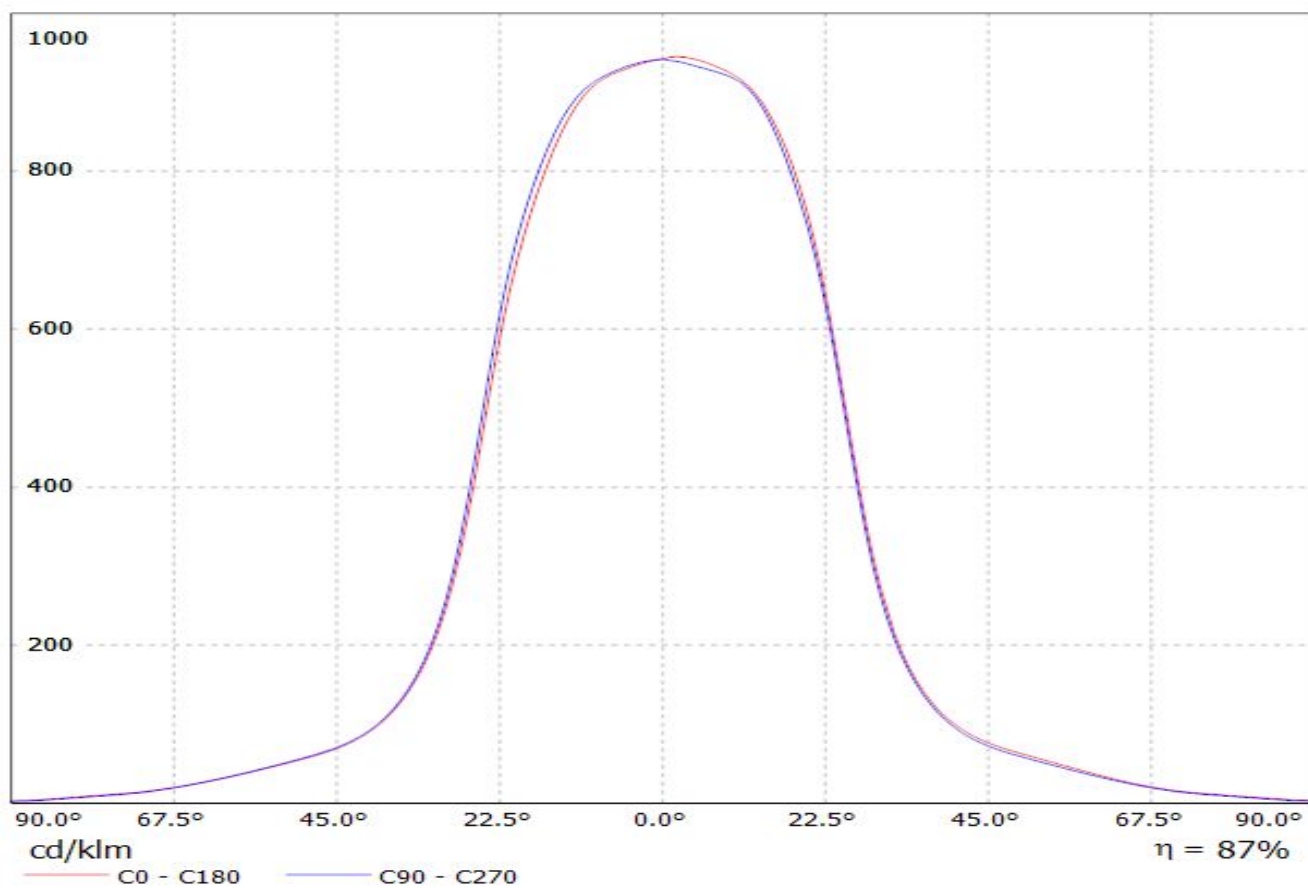
Luminaire: LEDIL OY C12361_HB-2X2_(SQ_PC) Efficiency=87%
Lamps: 1 x OSLO SQUARE PC (400.6lm)



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

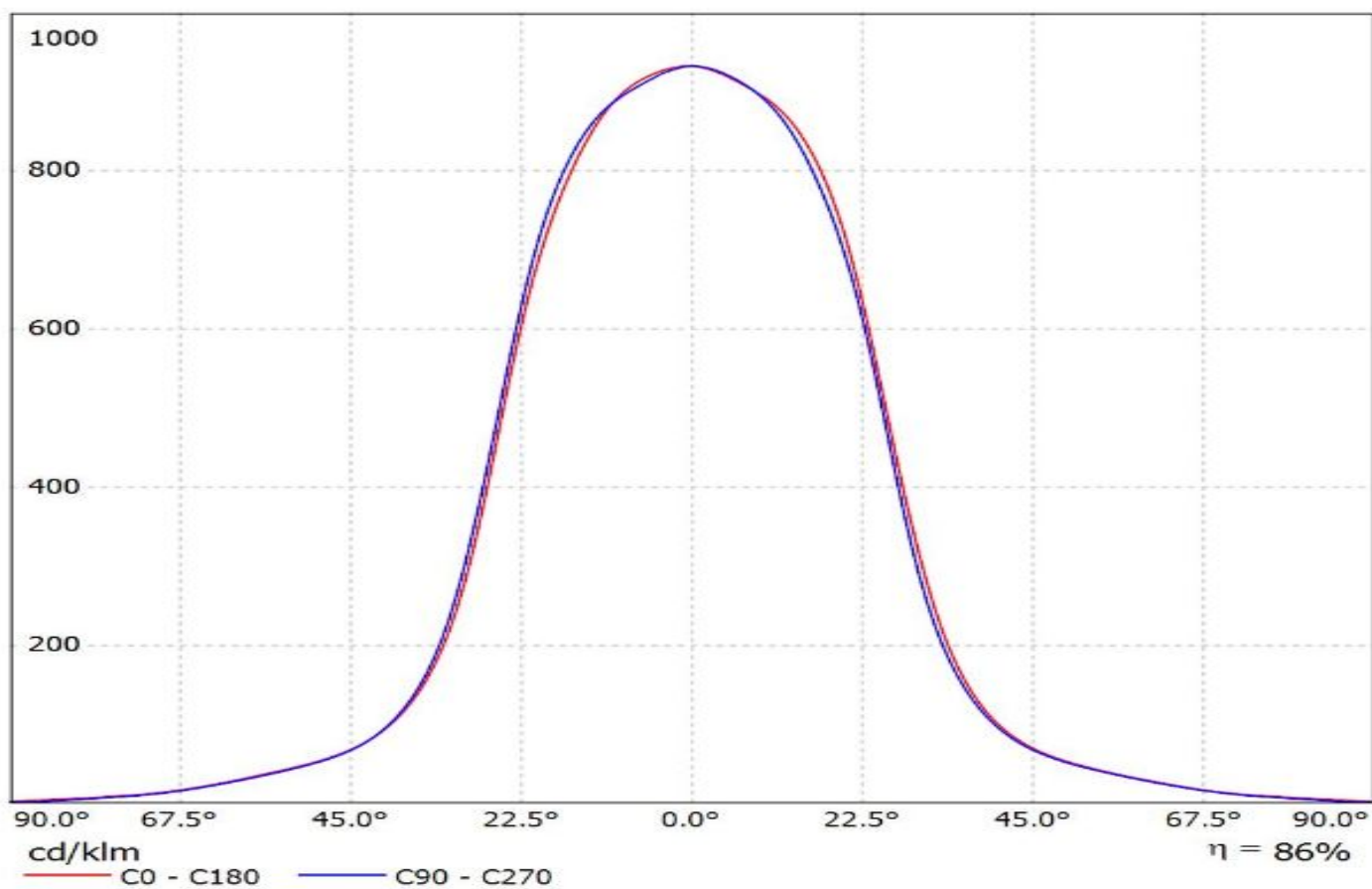


Luminaire: LEDiL Oy C12361_HB-2X2-W (LUXEON_T)_1 Eff.87.0%
Lamps: 1 x LUXEON_T 2x2 (294lm@250mA)

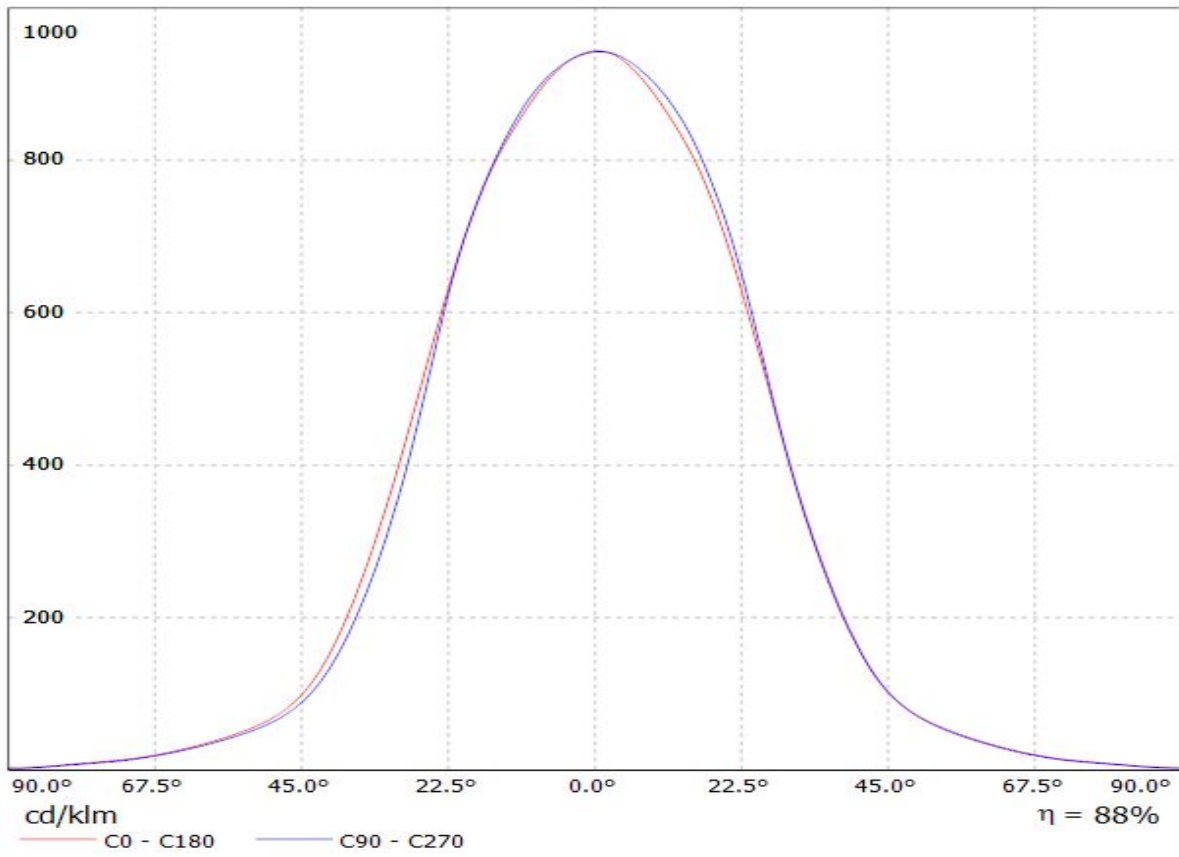


Luminaire: Ledil C12361_HB-2X2-W_(LH351B)

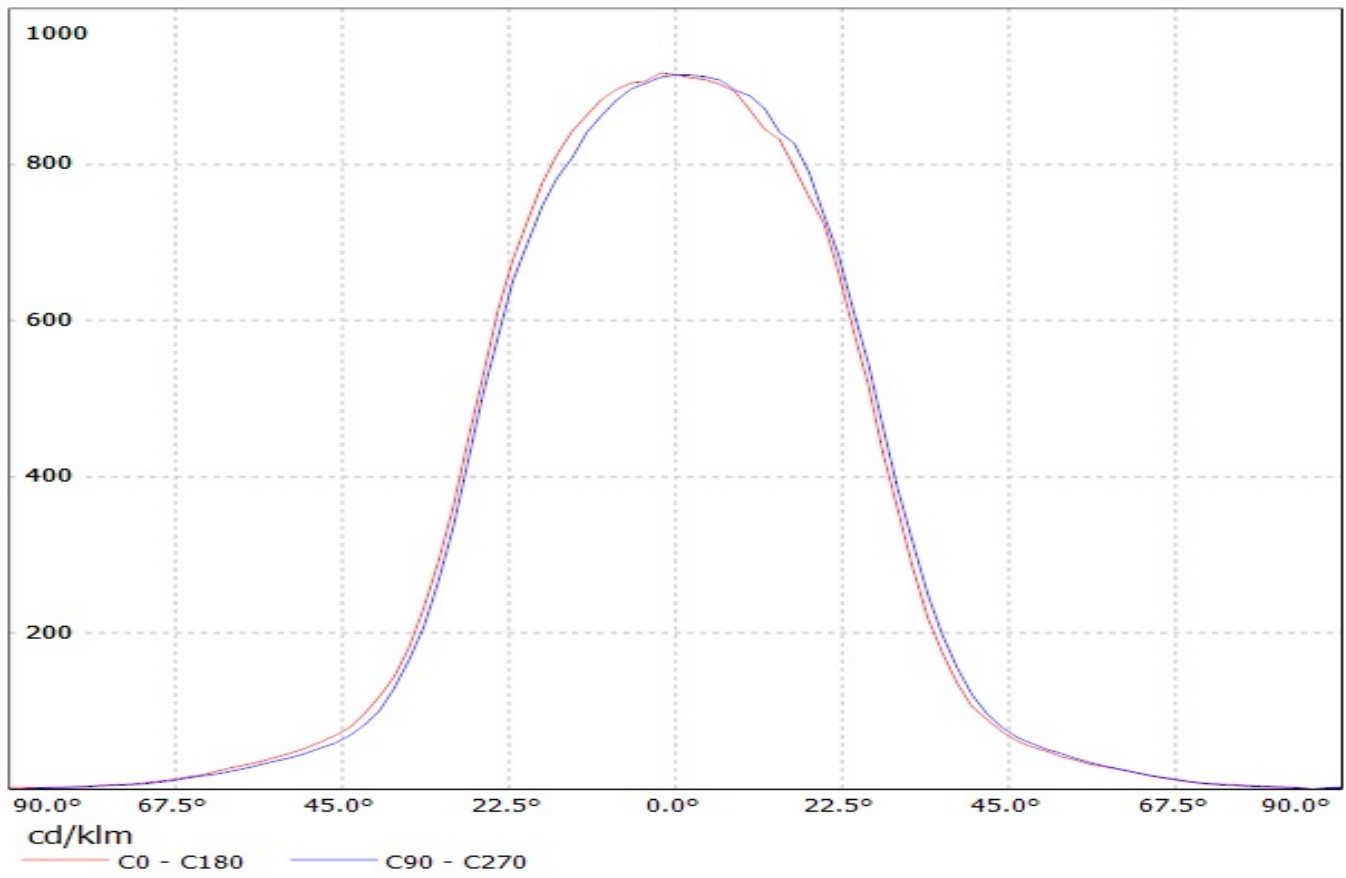
Lamps: 1 x Samsung_LH351B_2x2_444.178lm@250mA_P=2.8535W_I=0.25A



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

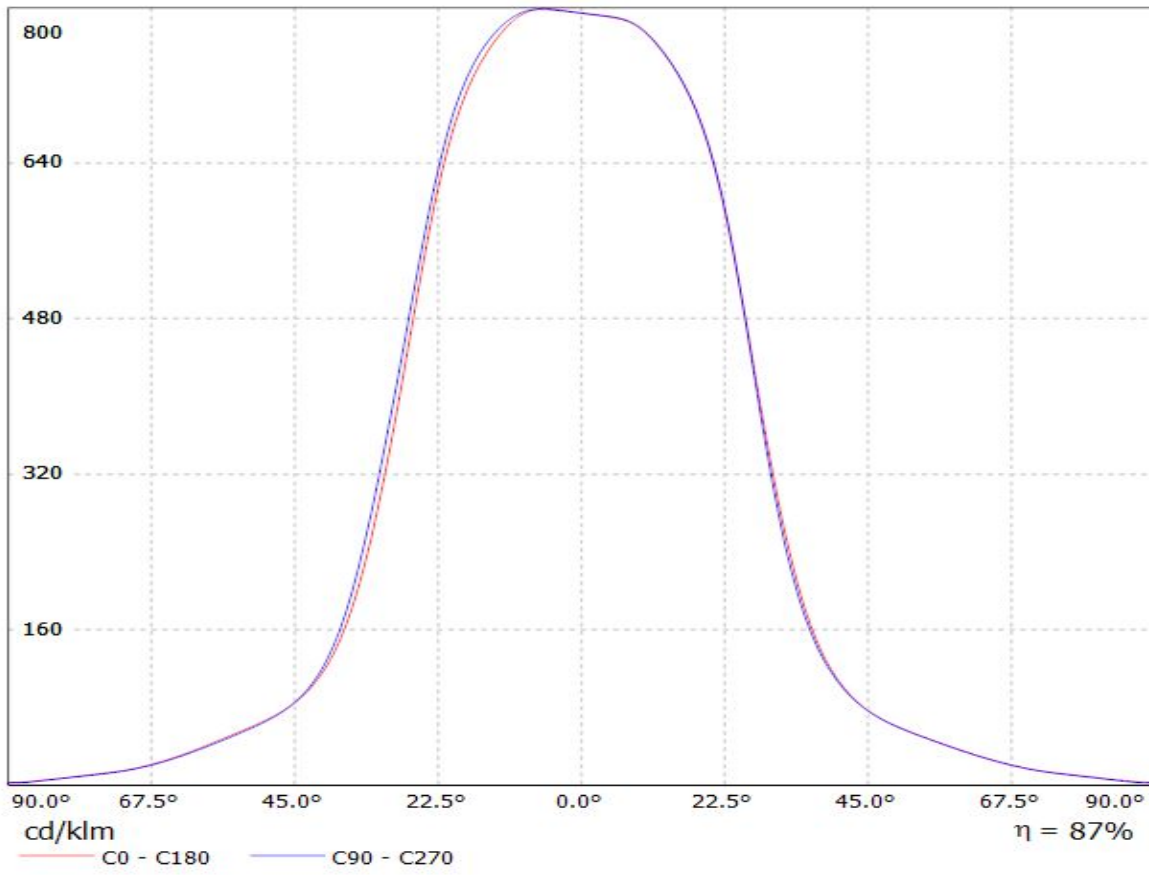


Luminaire: Ledil Oy C12361_HB-2X2-W_(XM-L2) Efficiency=87%
Lamps: 1 x Cree XM-L2 (CXMLBWT-0-7B4-T30-0L-001) 360lm @ 250mA CCT=3220K P=2.8W I=250mA

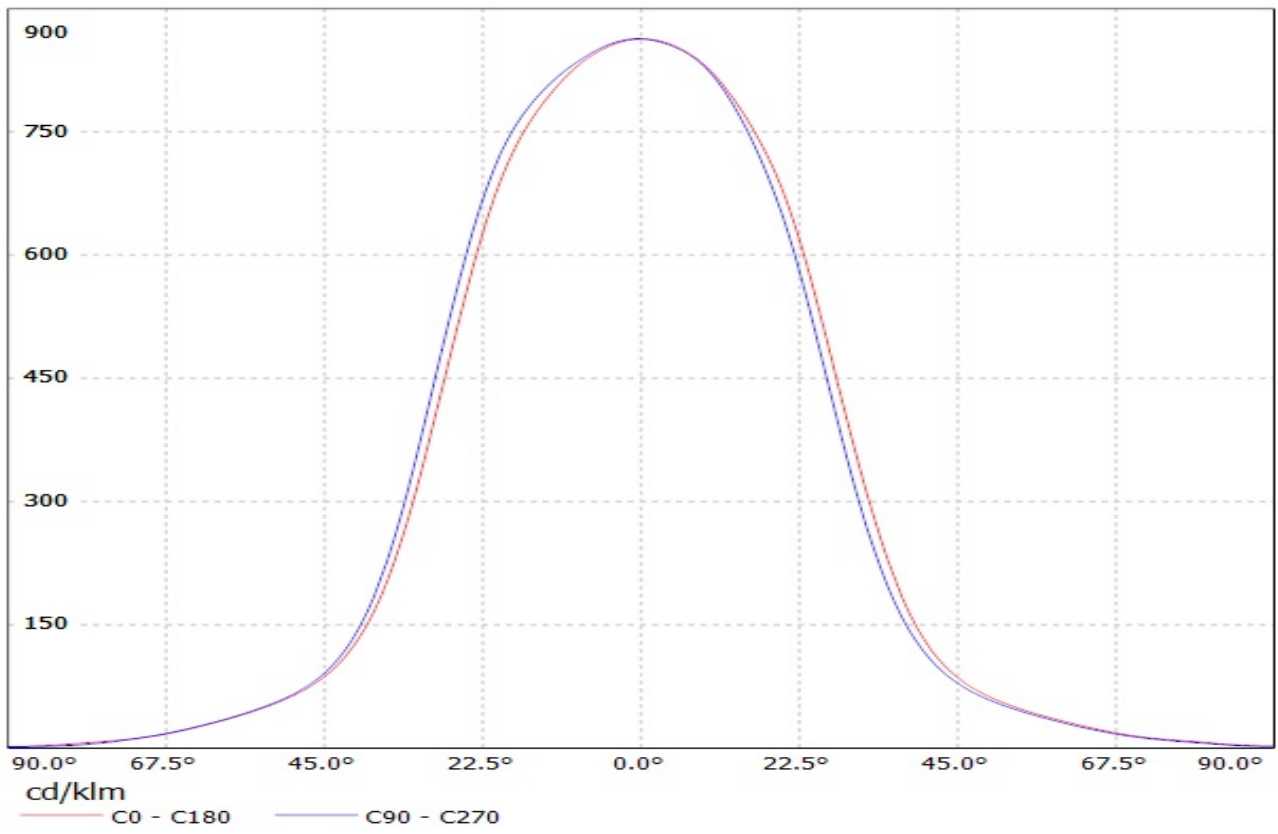


Luminaire: LEDiL Oy C12361_HB-2X2-W_(XP-L) Eff.87.0%

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

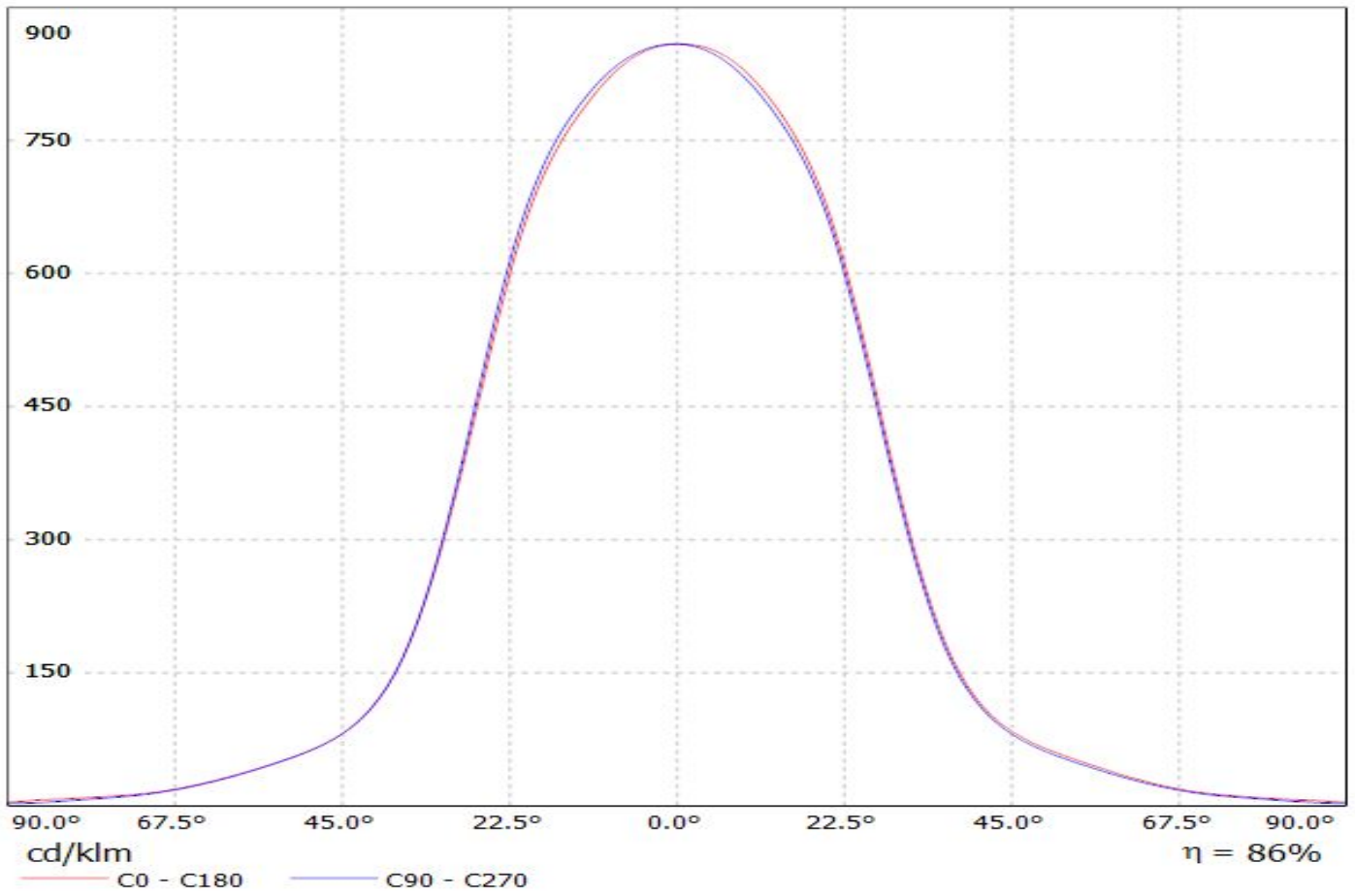


Luminaire: LEDIL OY C12361_HB-2X2 (XM-L) Efficiency=89%
Lamps: 1 x Cree XM-L (395lm @ 250mA)

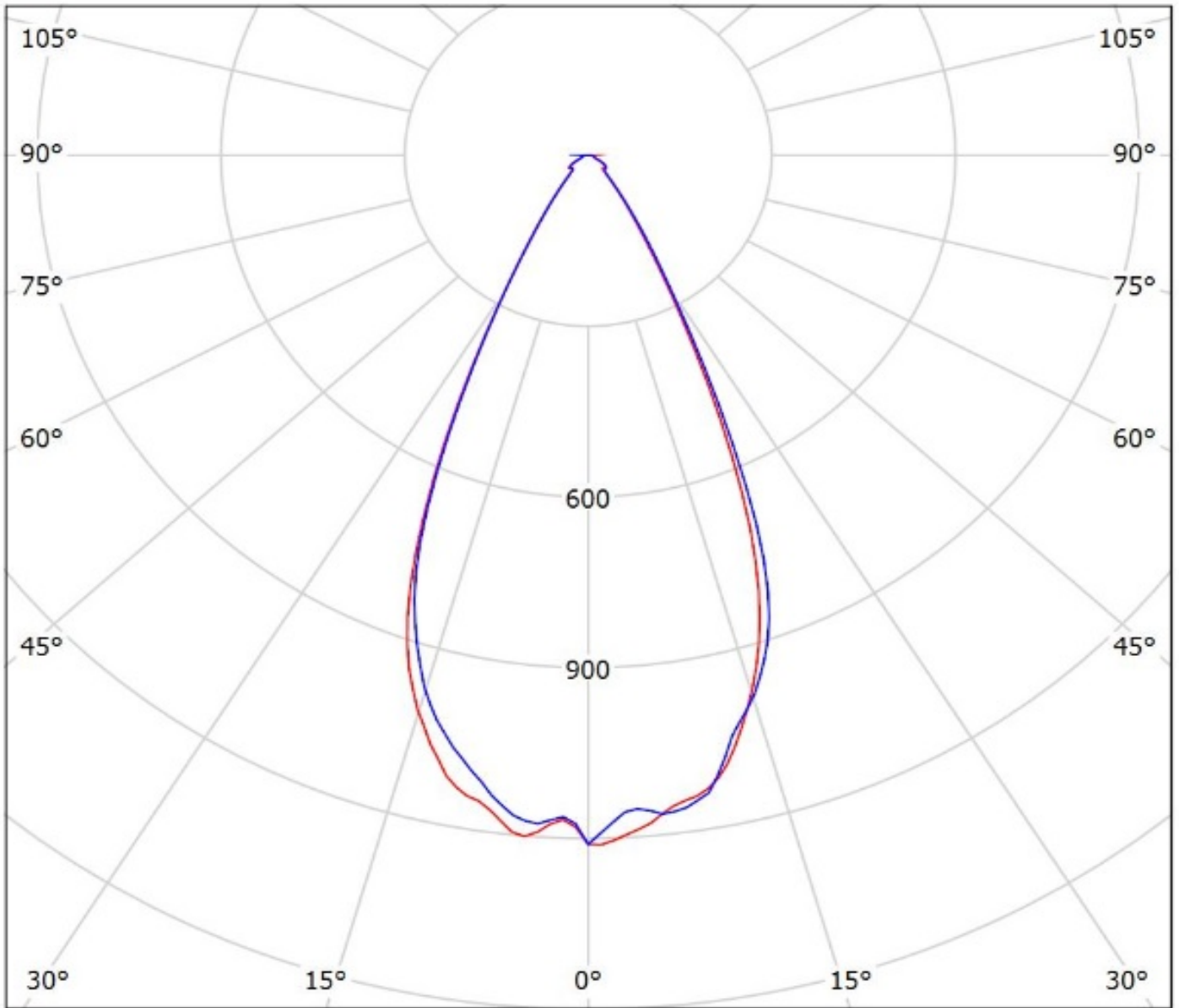


Luminaire: LEDiL Oy C12361_HB-2X2-W_(NWSL229AE)

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



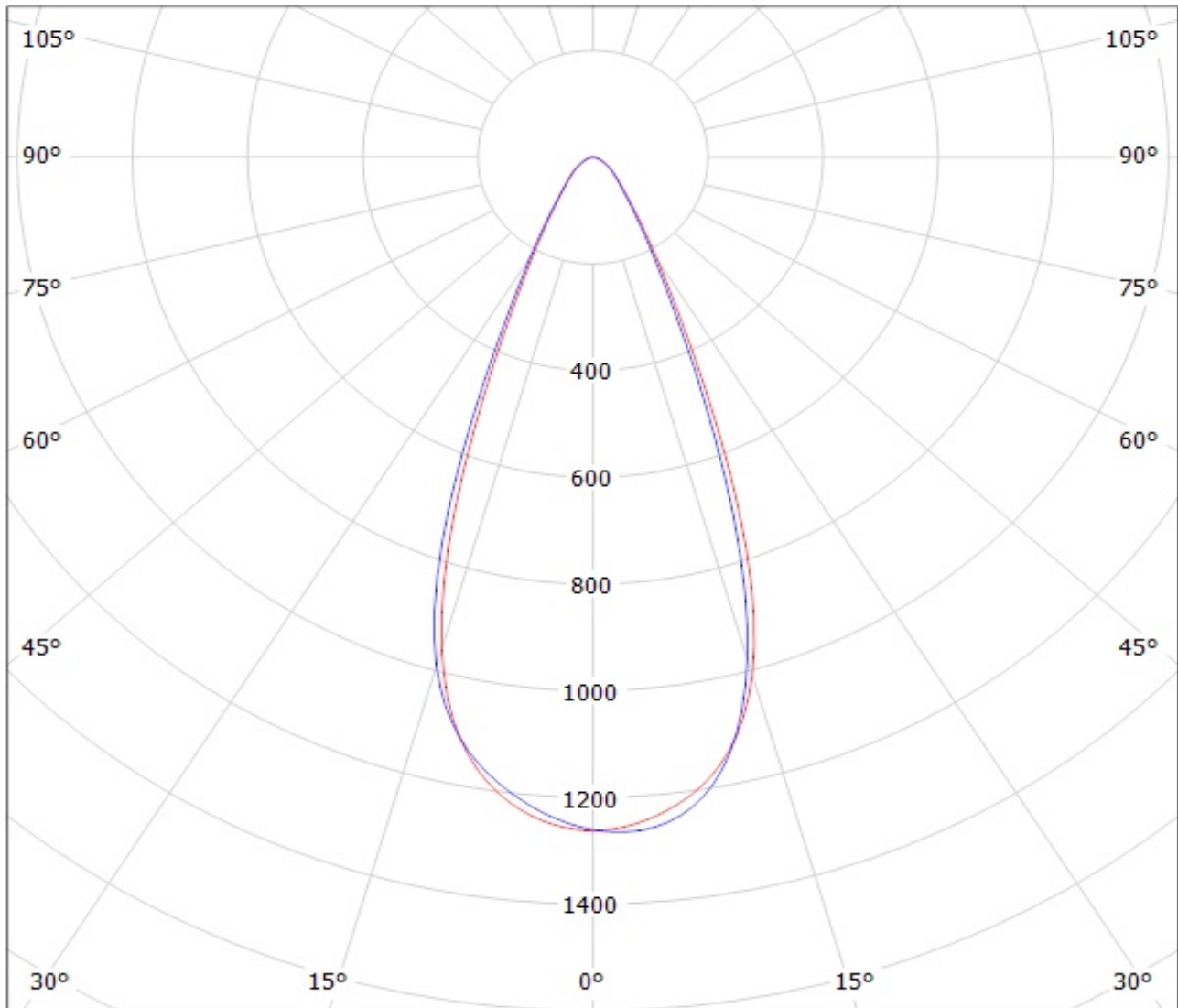
Luminaire: Ledil Oy C12361_HB-2X2-W_(Duris_P8)_SIMULATED
Lamps: 1 x Osram Duris P8



cd/klm
— C0 - C180 — C90 - C270

$\eta = 93\%$

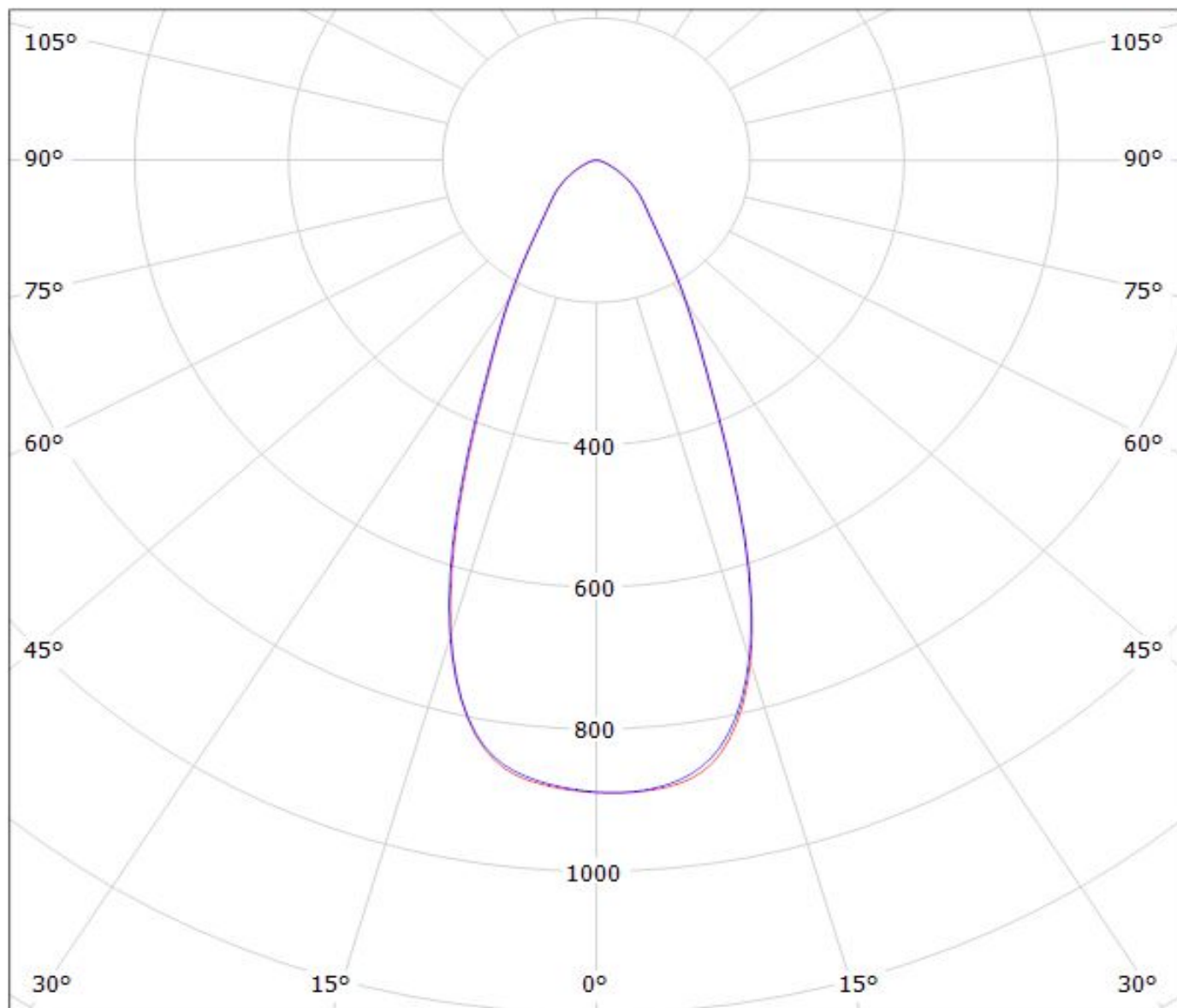
Luminaire: LEDIL OY C12361_HB-2X2 (SSL80) Efficiency=89%
Lamps: 1 x Osram SSL80 (340lm @ 250mA)



cd/klm
— C0 - C180 — C90 - C270

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

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



cd/klm

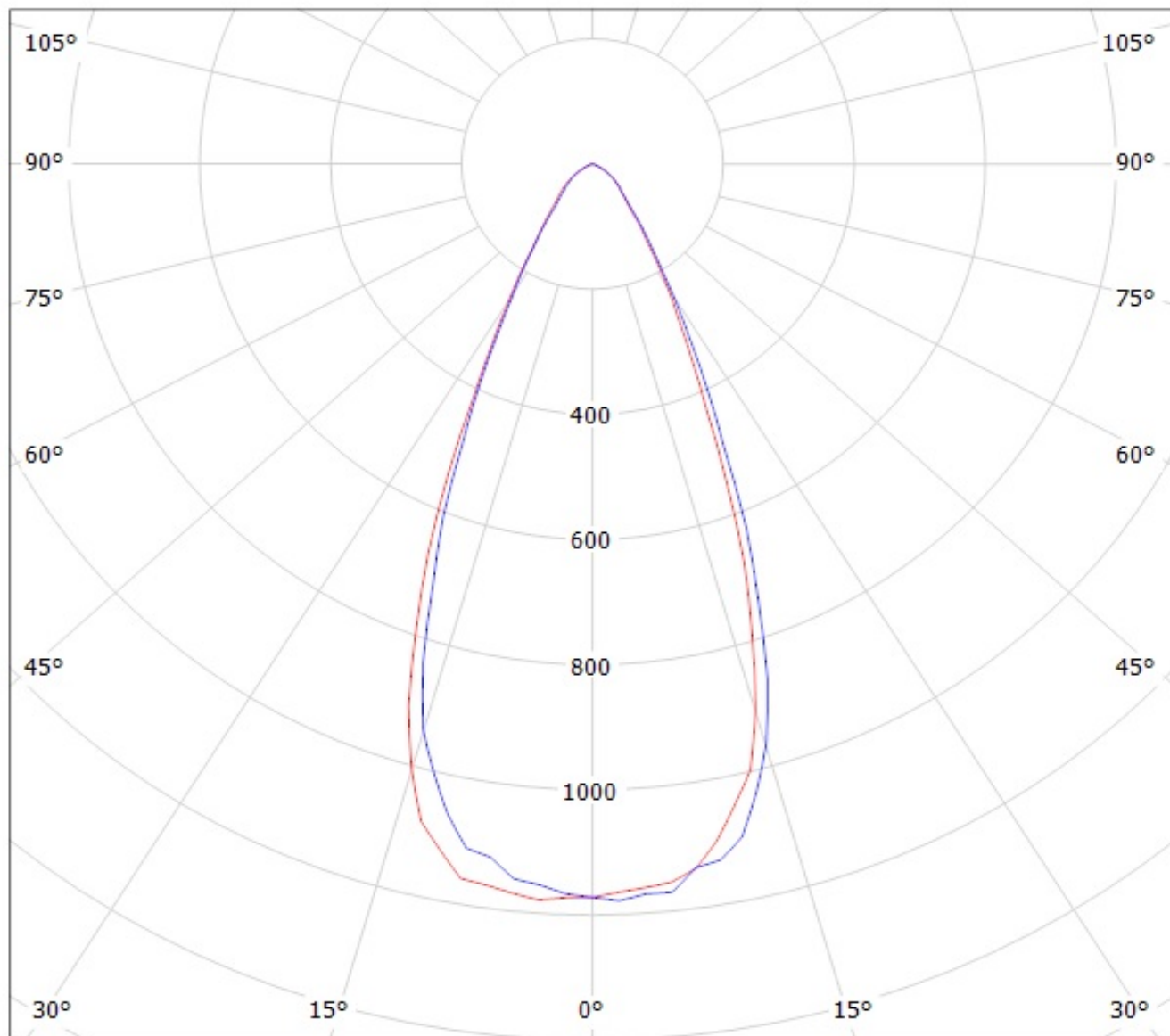
— C0 - C180

— C90 - C270

$\eta = 79\%$

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

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



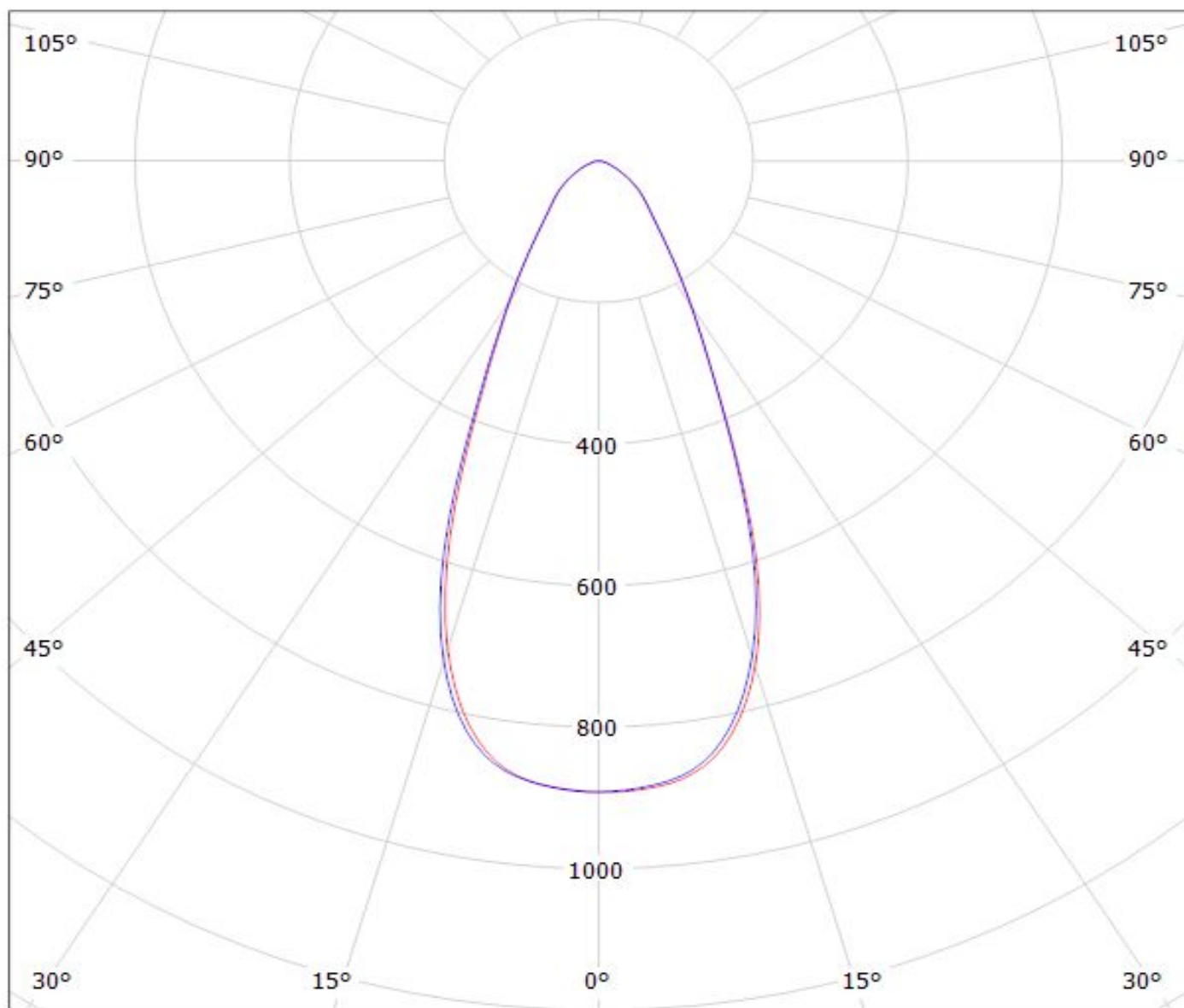
cd/klm

— C0 - C180

— C90 - C270

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

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



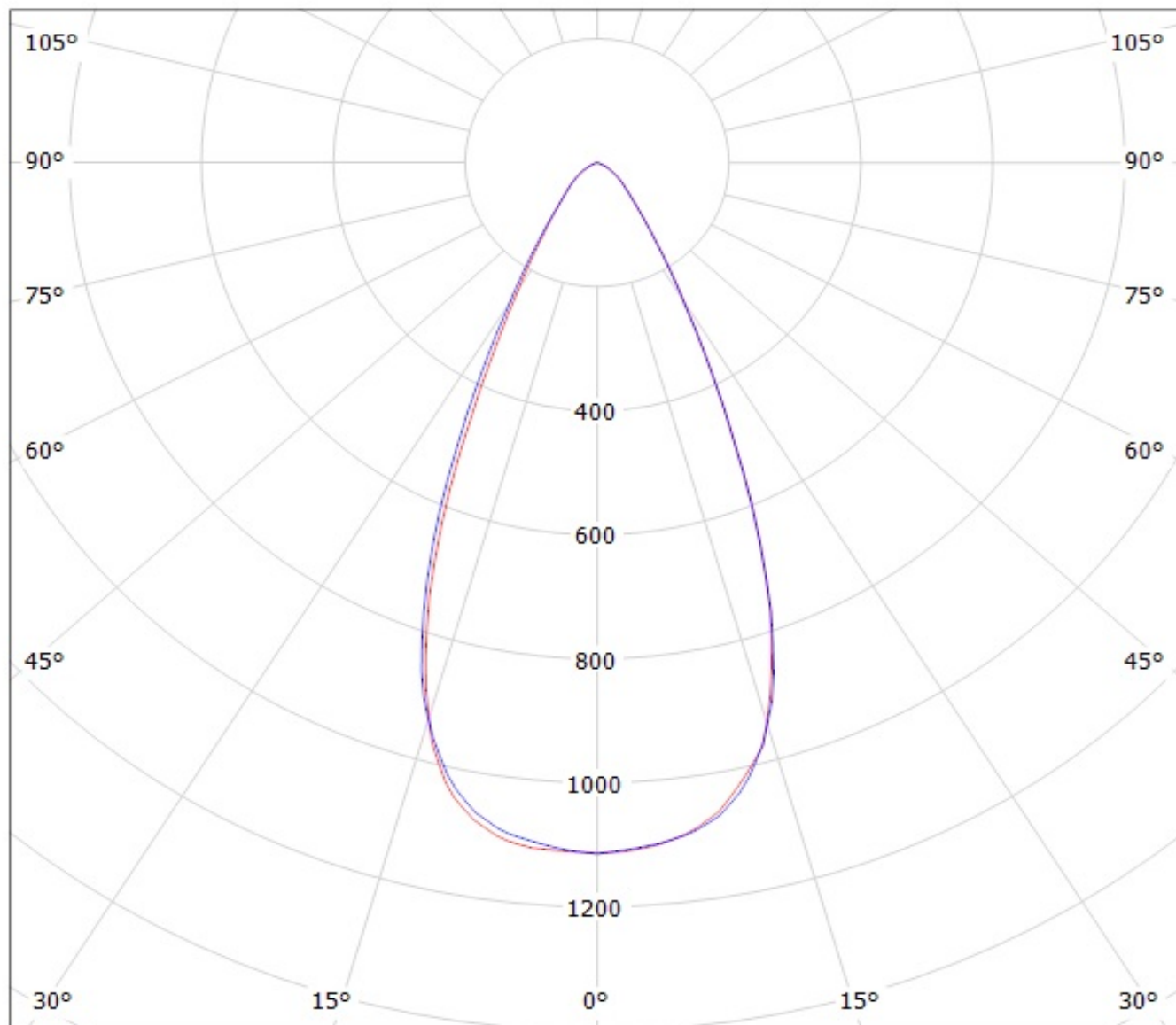
cd/klm

— C0 - C180

— C90 - C270

$\eta = 79\%$

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



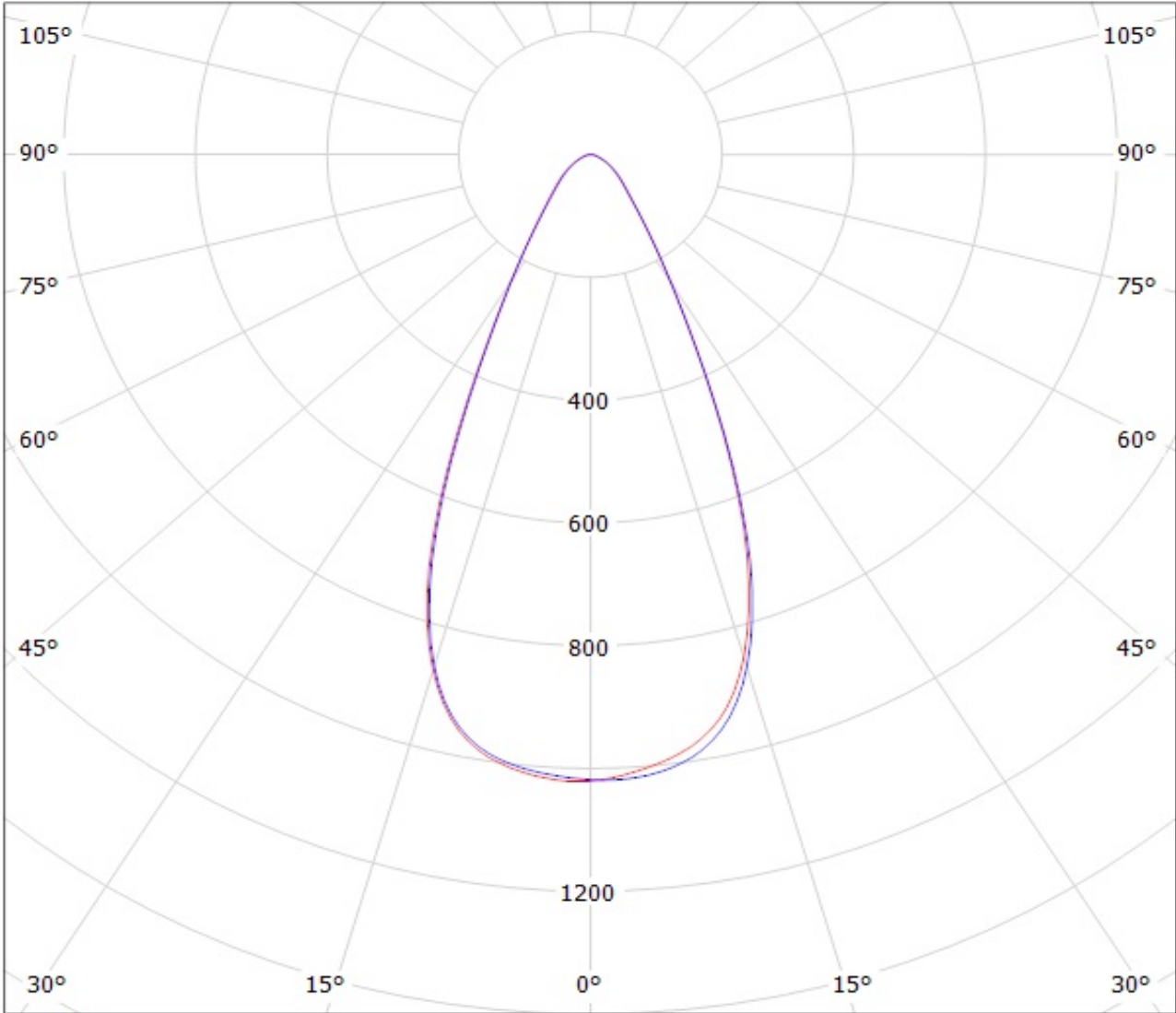
cd/klm

— C0 - C180

— C90 - C270

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

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

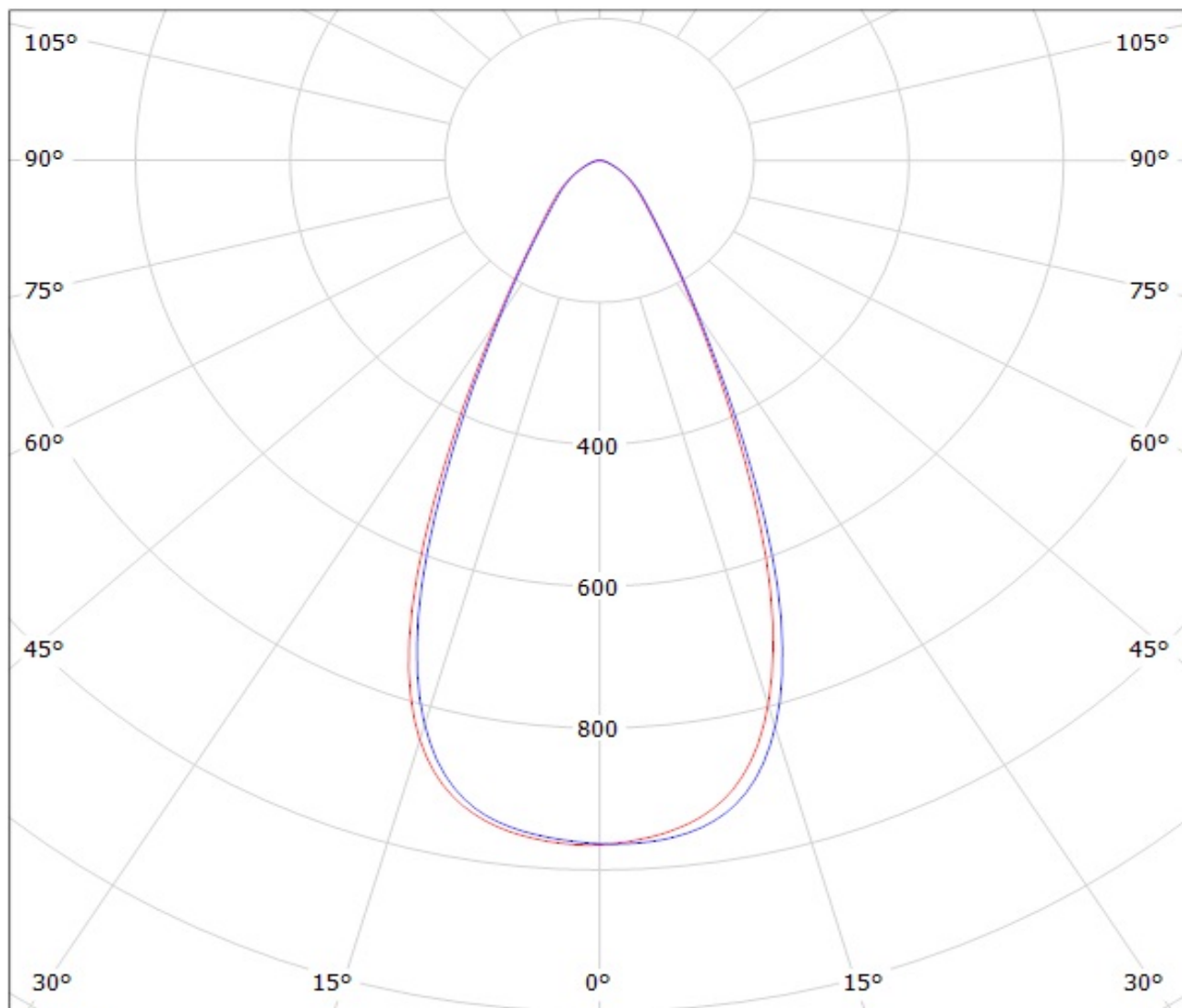


cd/klm

— C0 - C180

— C90 - C270

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



cd/klm

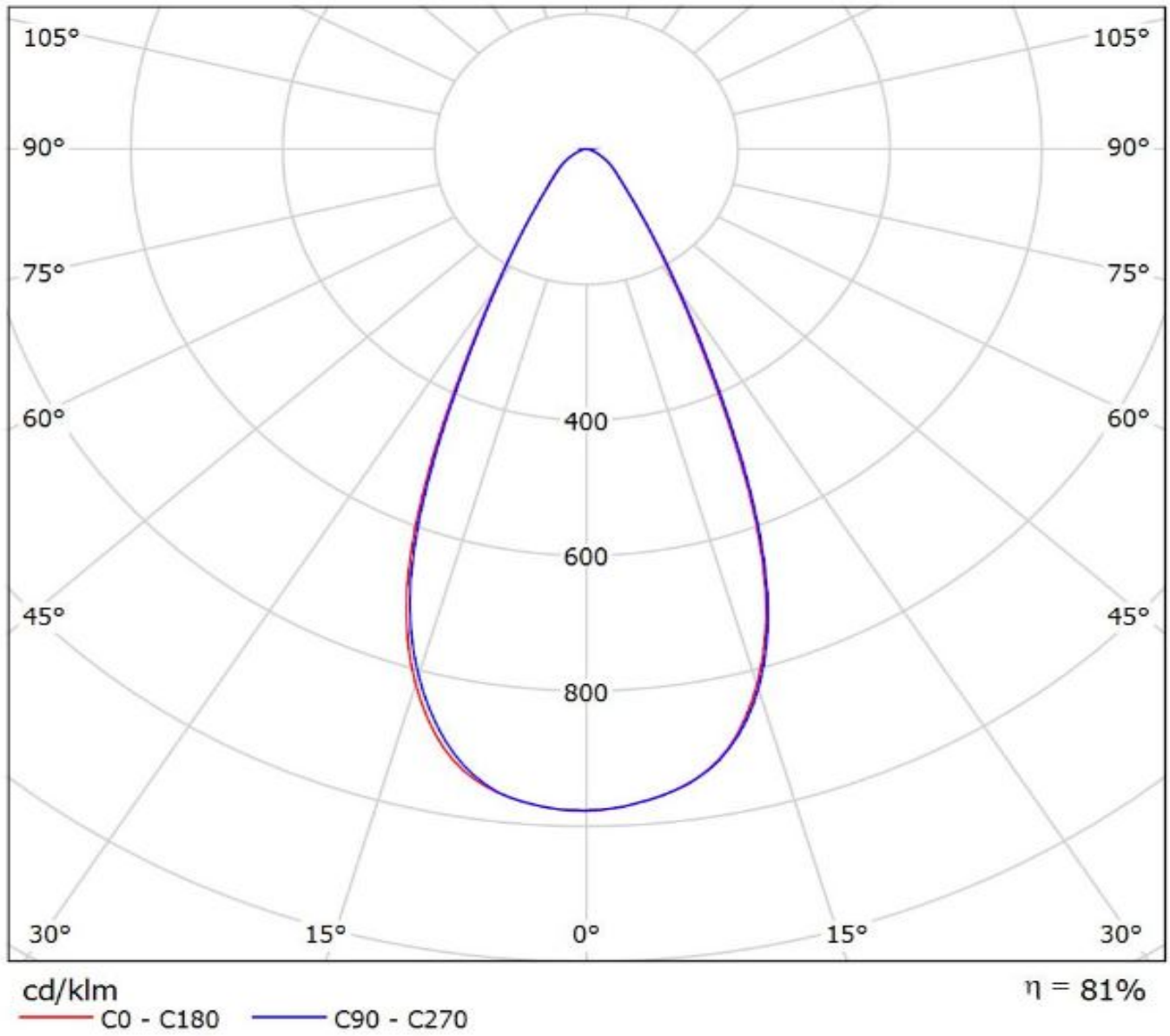
— C0 - C180

— C90 - C270

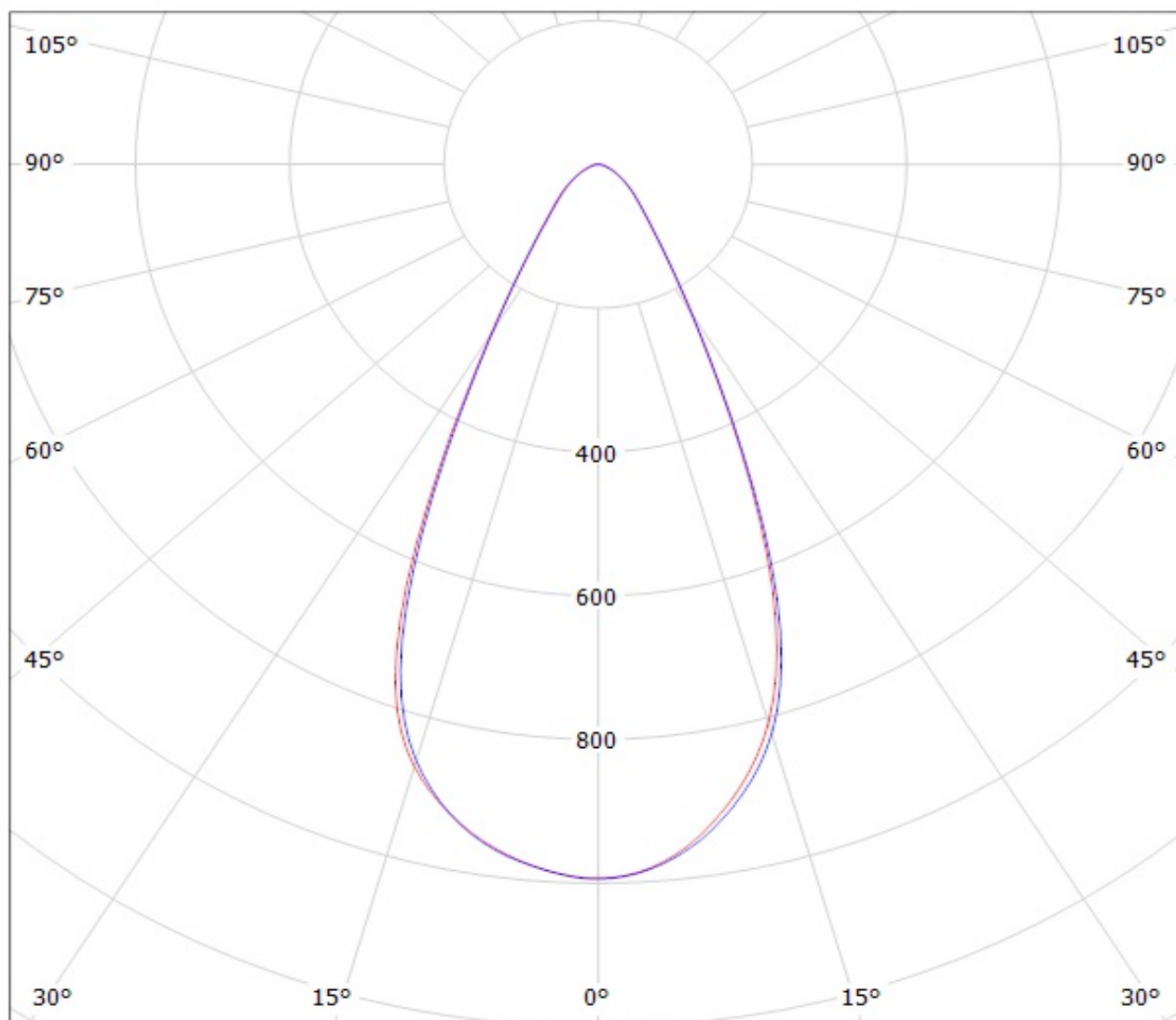
Ledil C12361_HB-2X2-W_(TL1L4) / LDC (Polar)

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



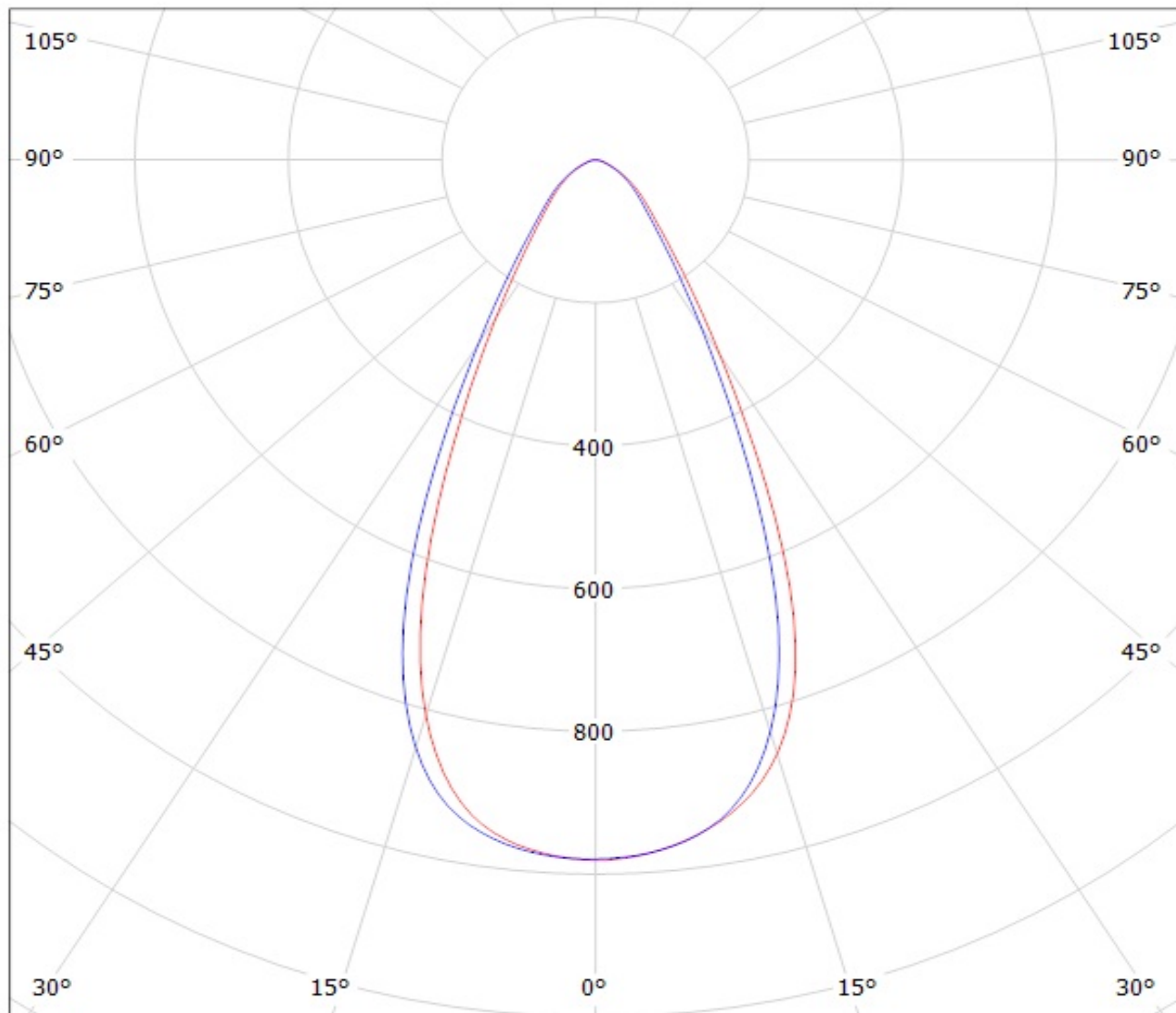
Luminaire: LEDIL OY C12361_HB-2X2 (3535) Efficiency=89%
Lamps: 1 x SAmsung 3535 (353lm @ 250mA)



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)

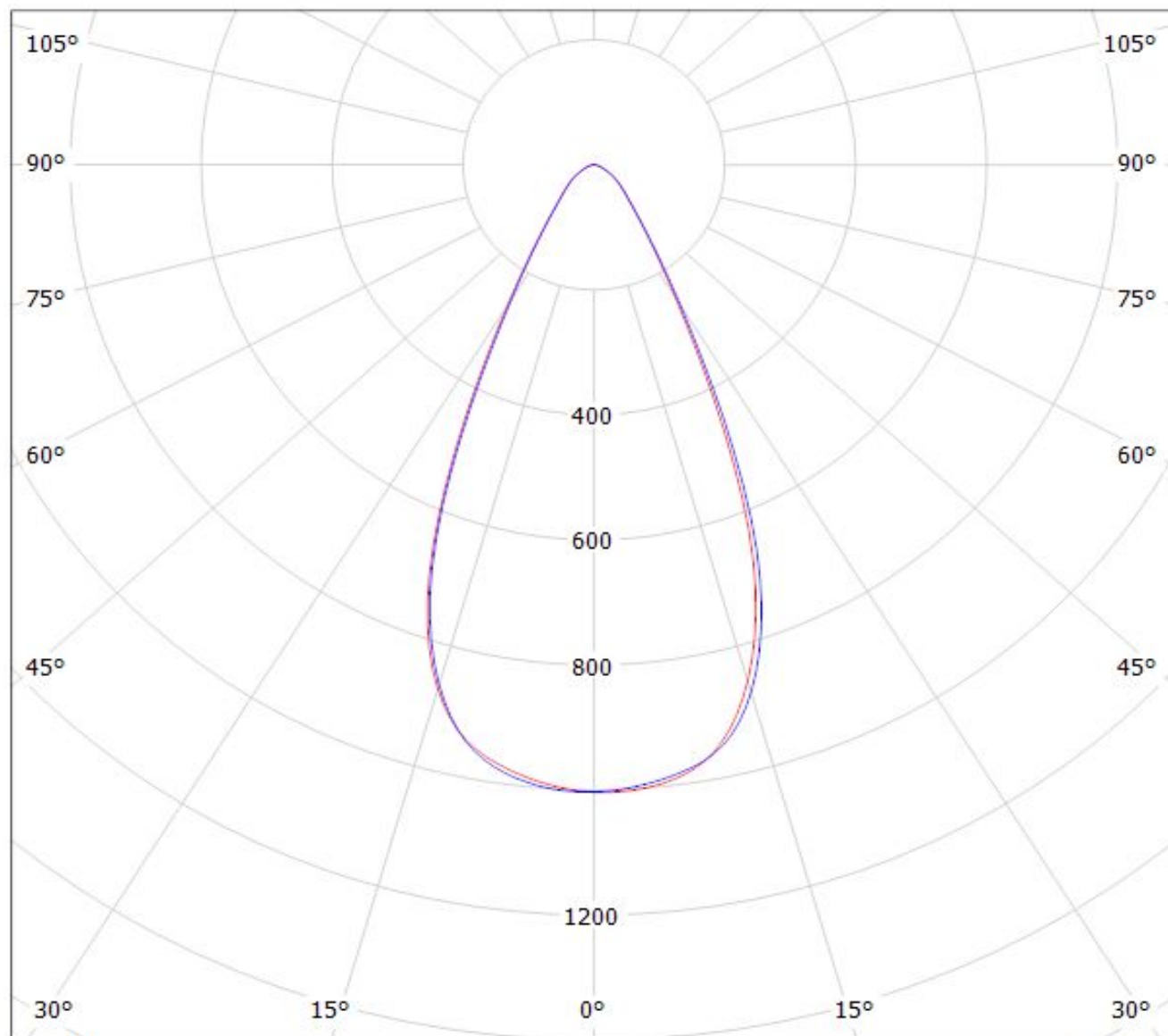


cd/klm

— C0 - C180

— C90 - C270

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



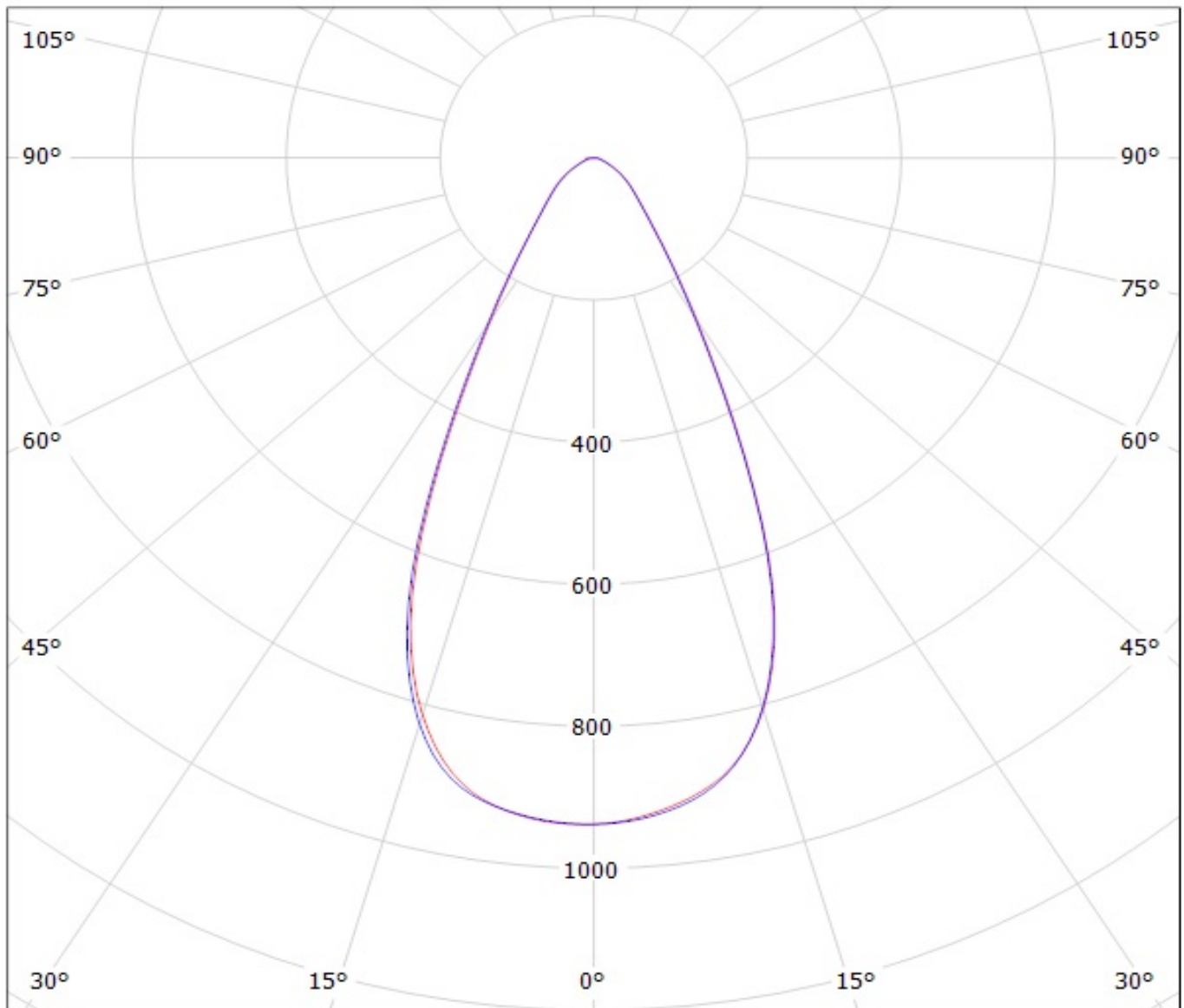
cd/klm

— 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



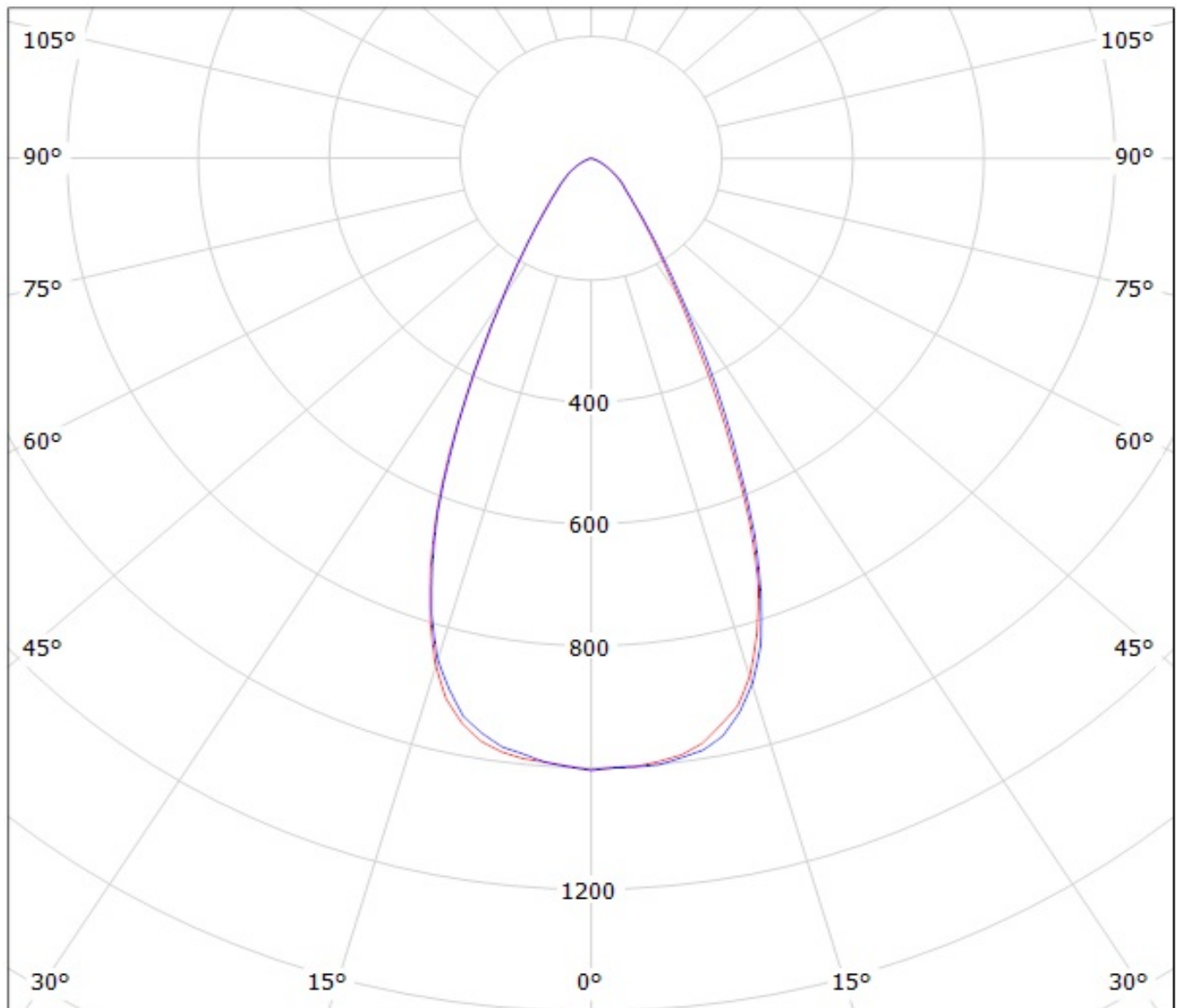
cd/klm

— 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

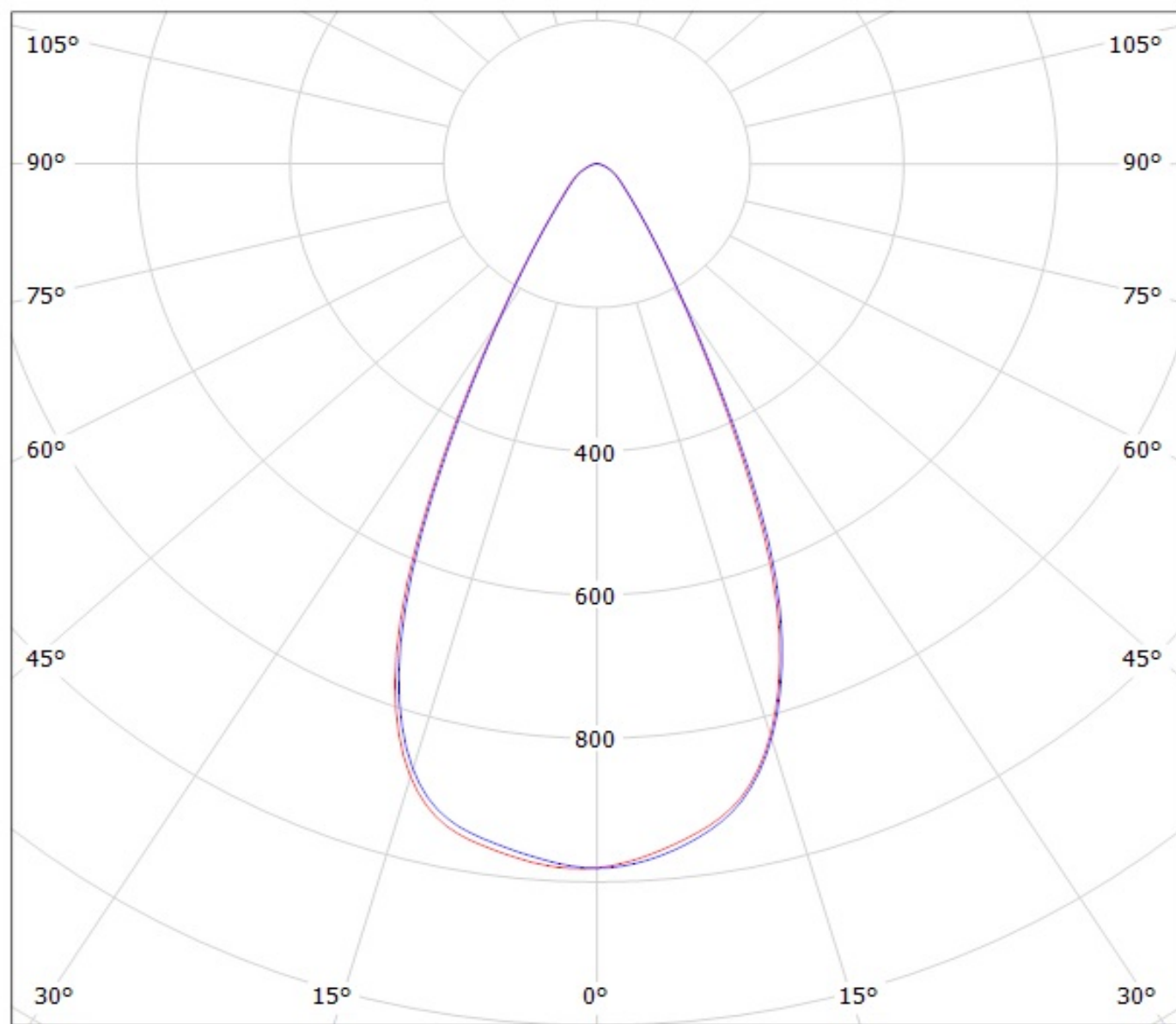


cd/klm

— 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

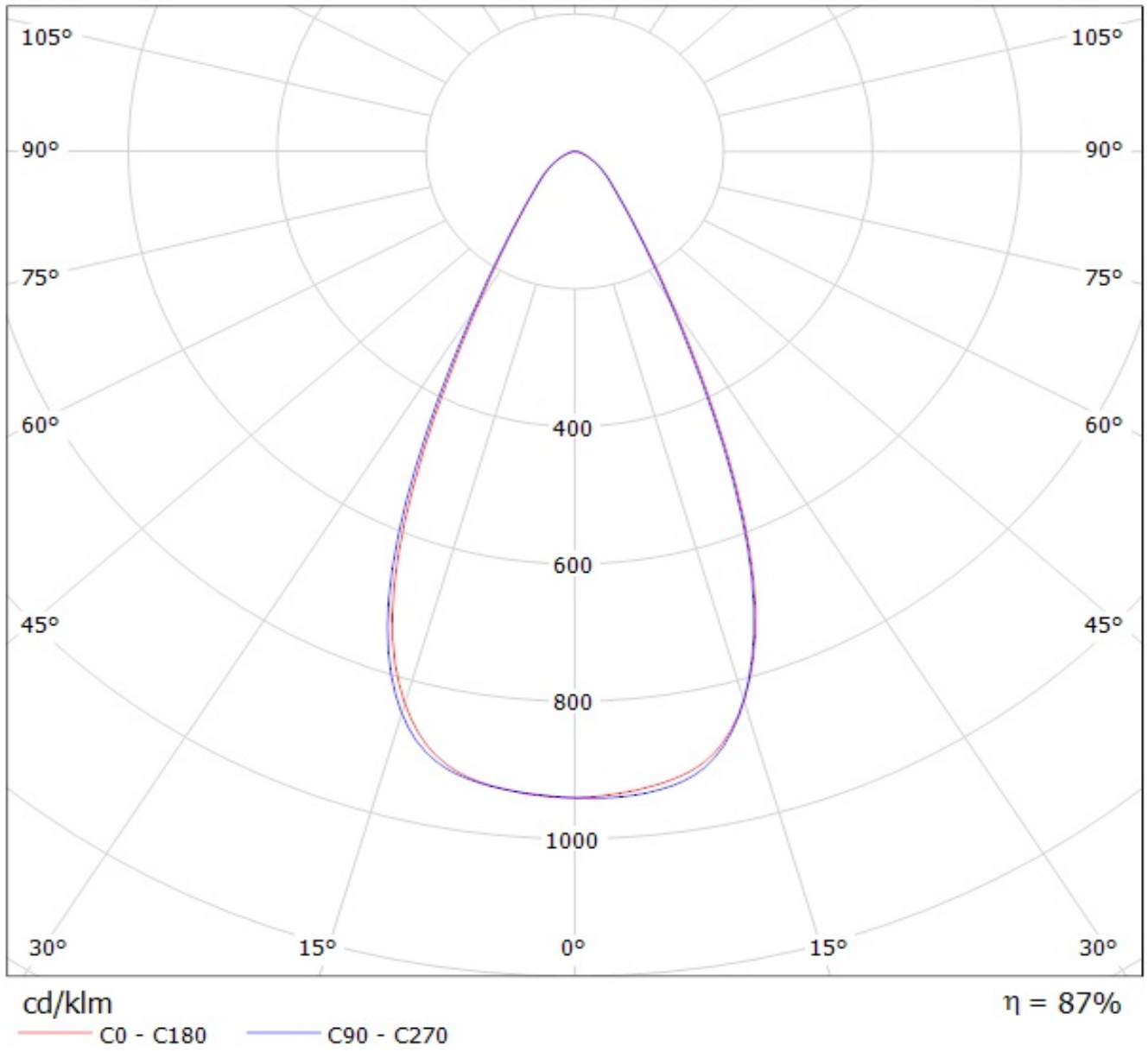


cd/klm

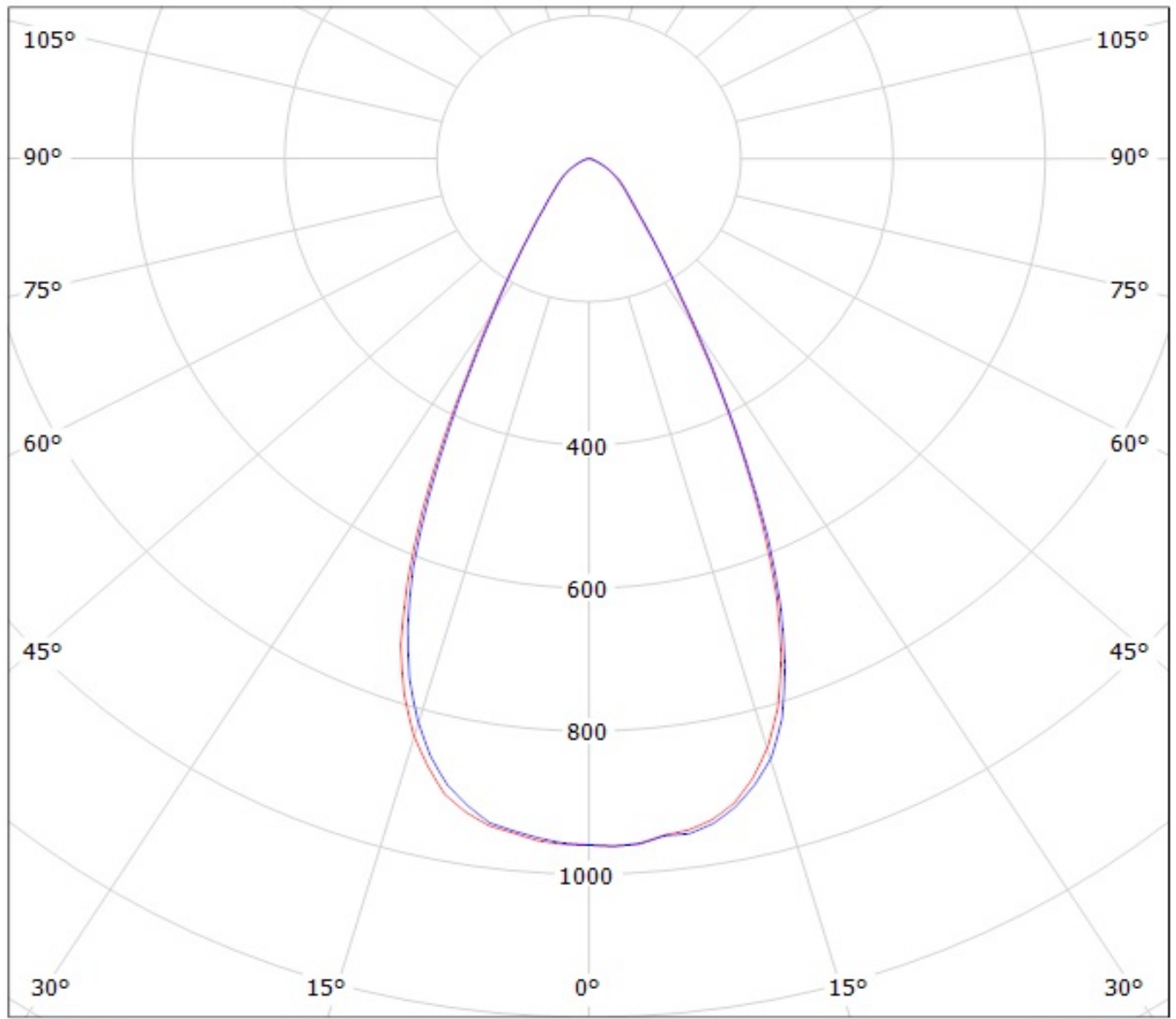
— C0 - C180

— C90 - C270

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

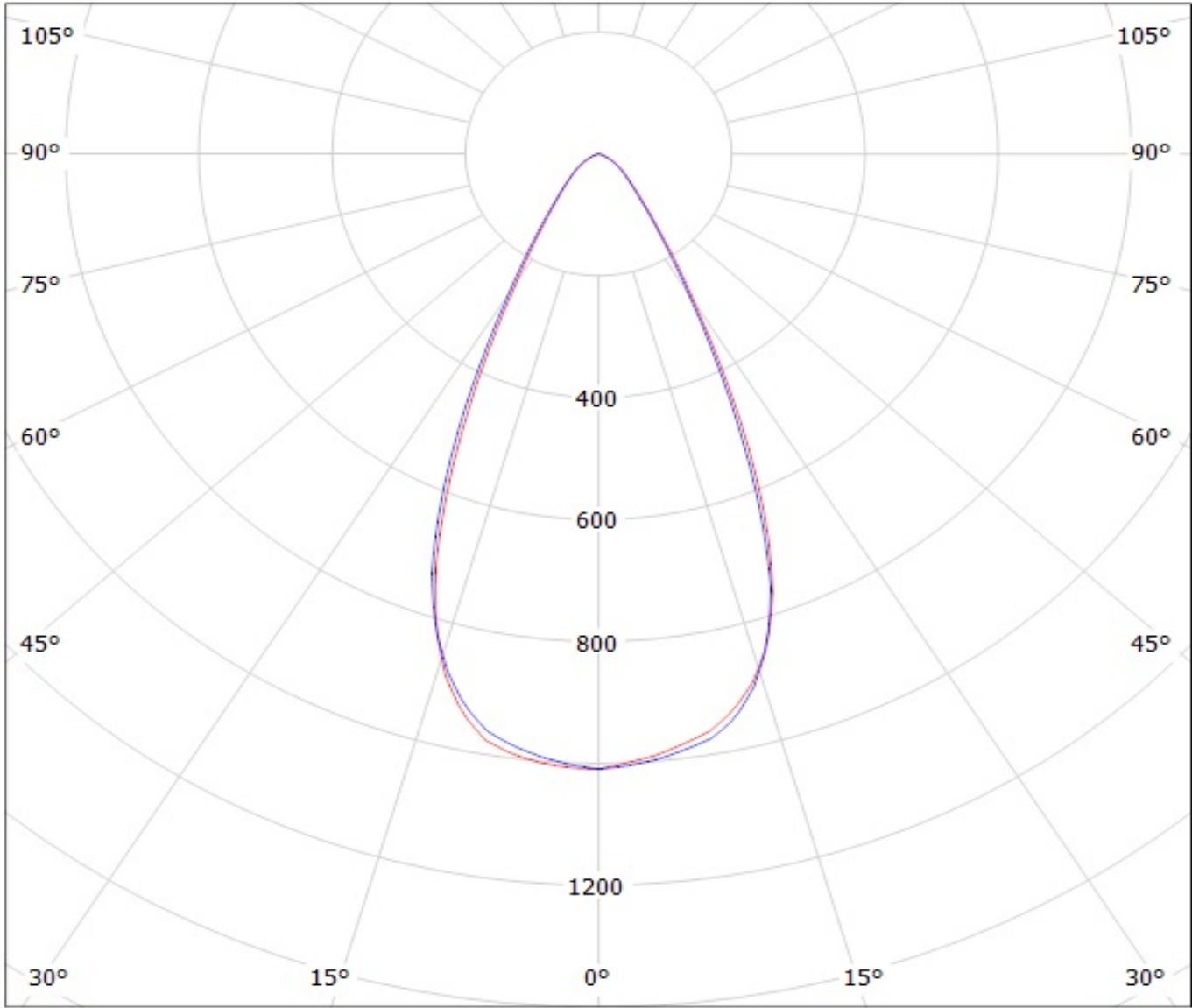


cd/klm

$\eta = 86\%$

— C0 - C180 — C90 - C270

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

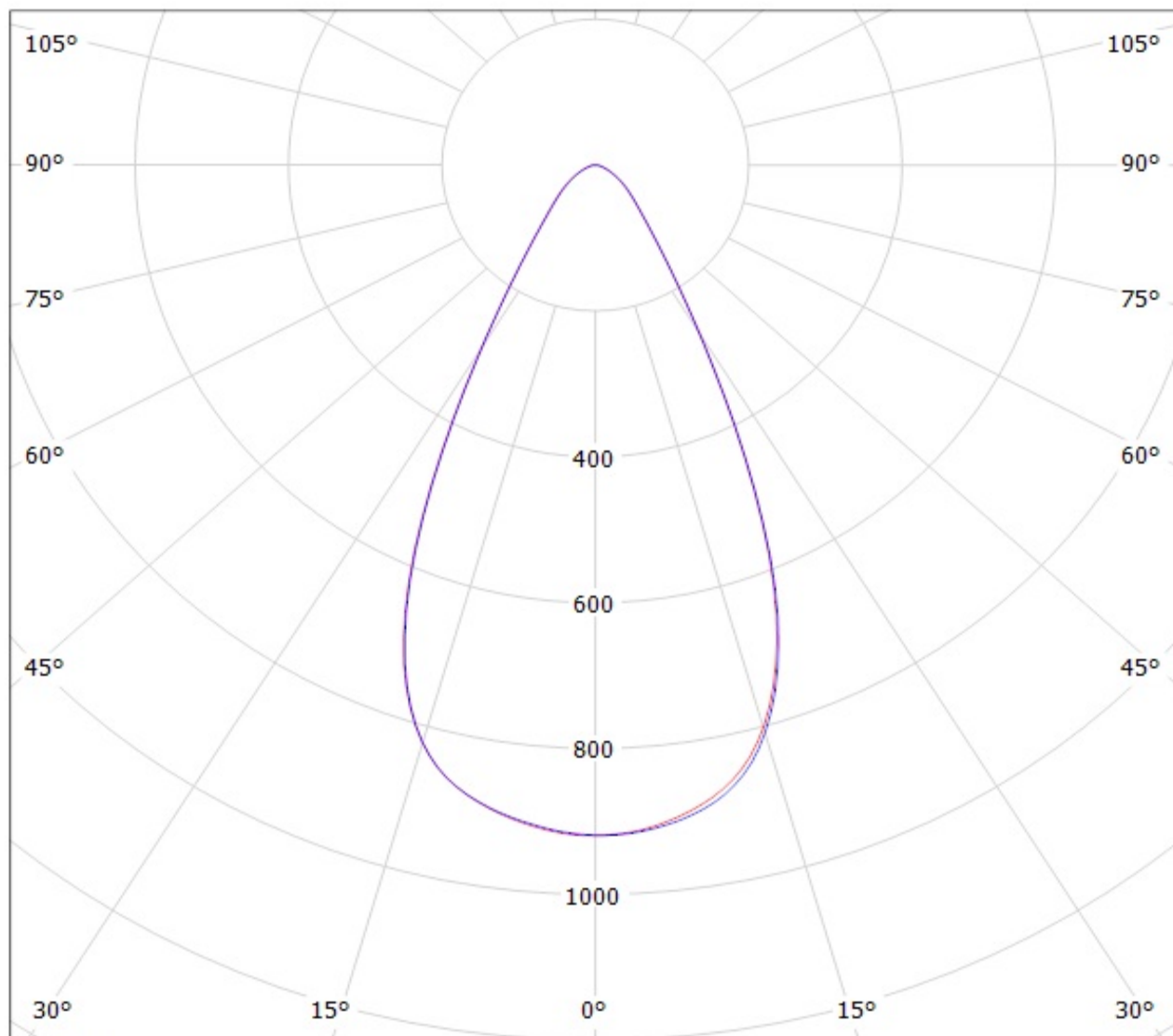


cd/klm

— C0 - C180 — C90 - C270

$\eta = 86\%$

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



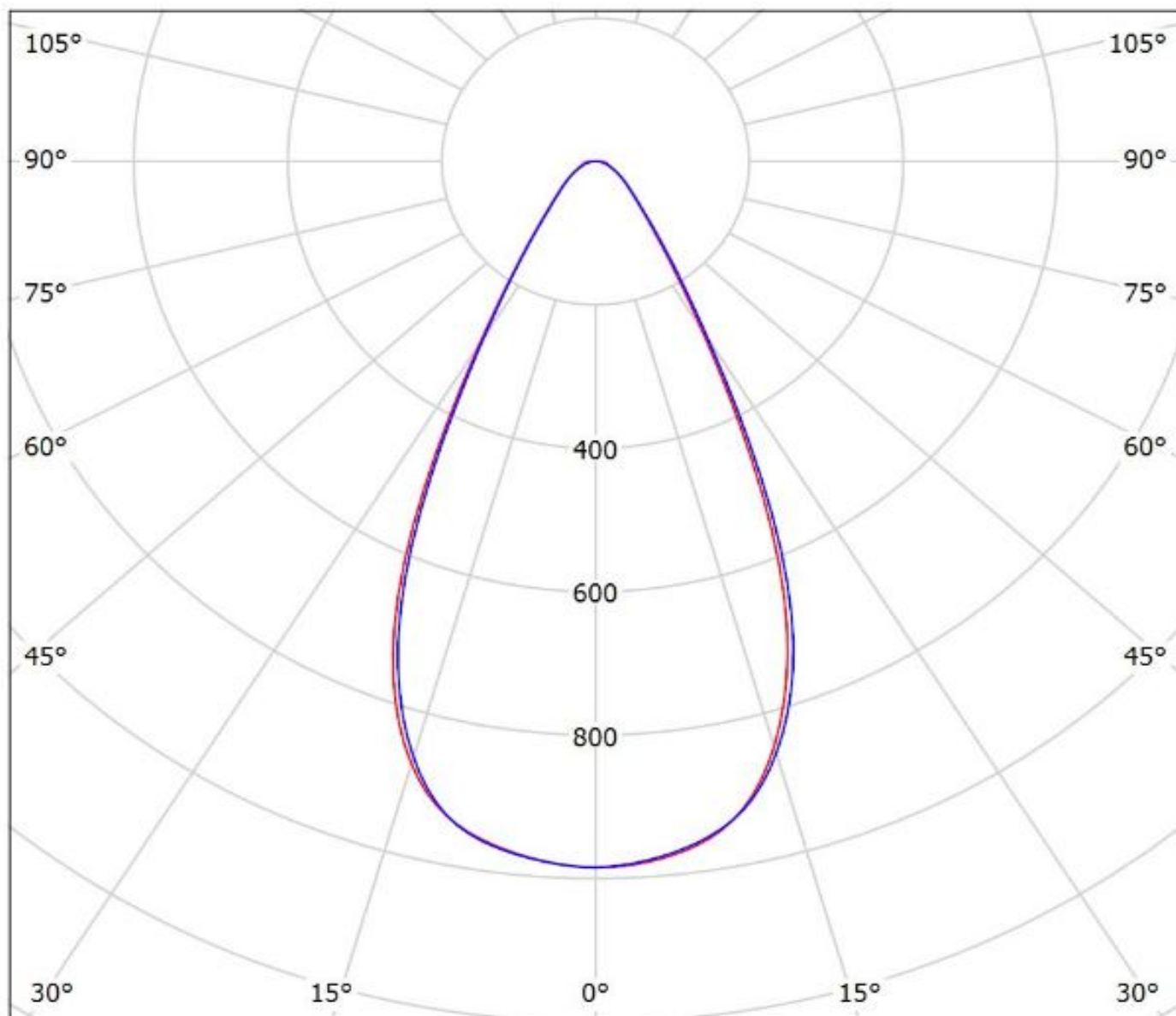
cd/klm

— C0 - C180

— C90 - C270

Luminaire: Ledil 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

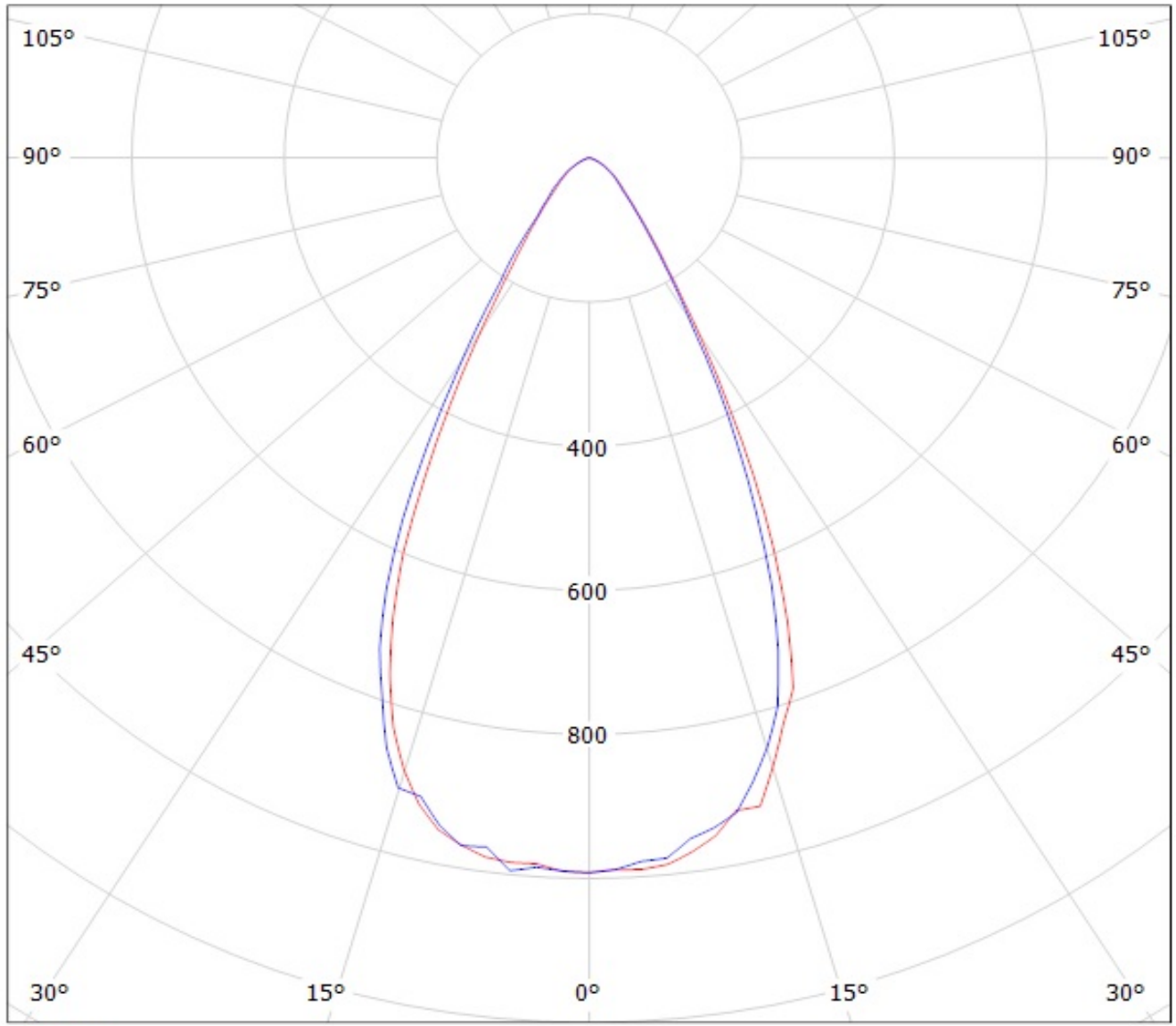


cd/klm

— C0 - C180 — C90 - C270

$\eta = 94\%$

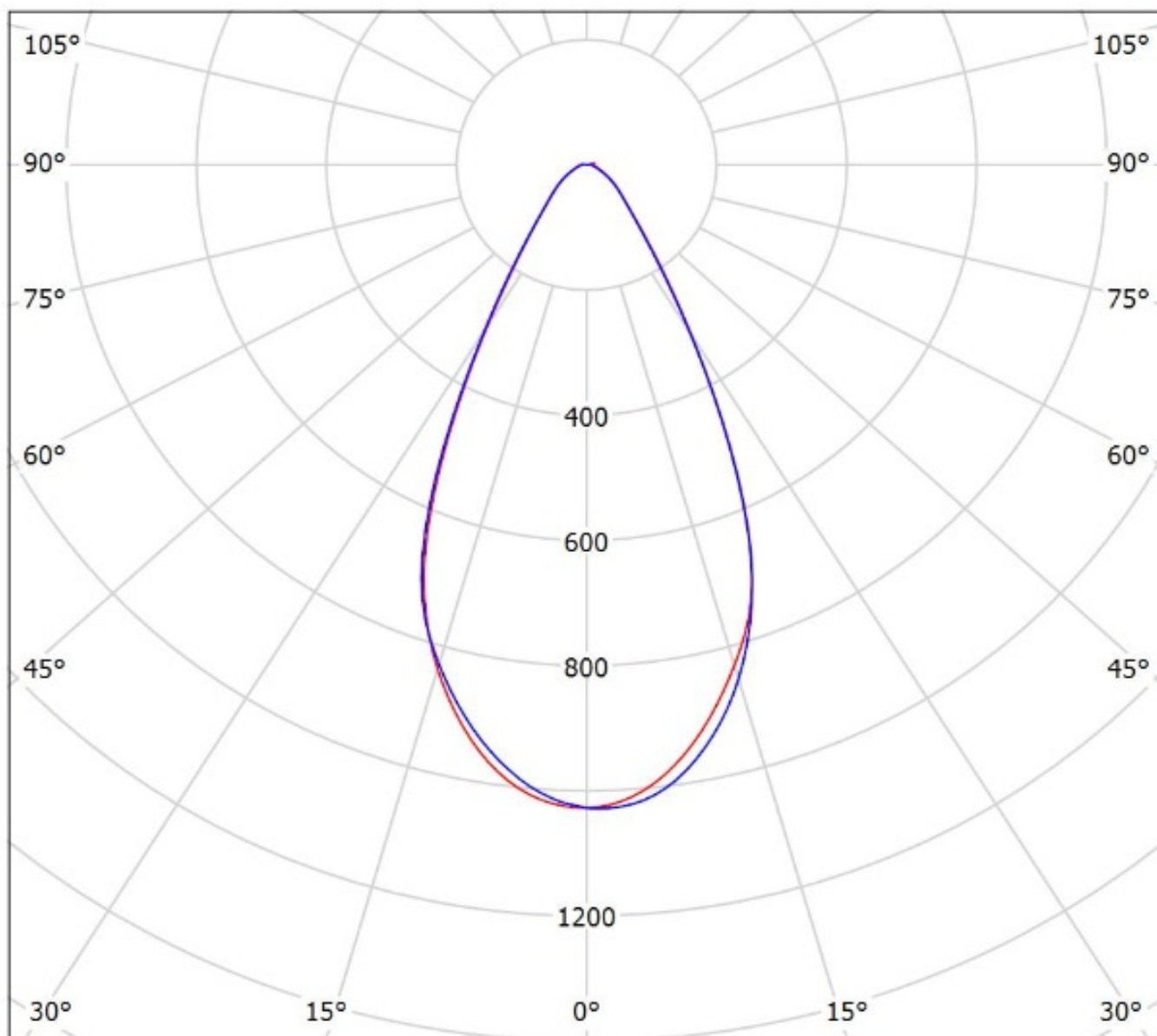
Luminaire: Ledil Oy C12361_HB-2X2-W_(3535_Ceramic_gen2) Efficiency=86%
Lamps: 1 x LG 3535 Ceramic gen2 (PKG5700K) 461lm @ 250mA CCT=6600K P=2.9W I=250mA



cd/klm
— C0 - C180 — C90 - C270

Luminaire: Ledil 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

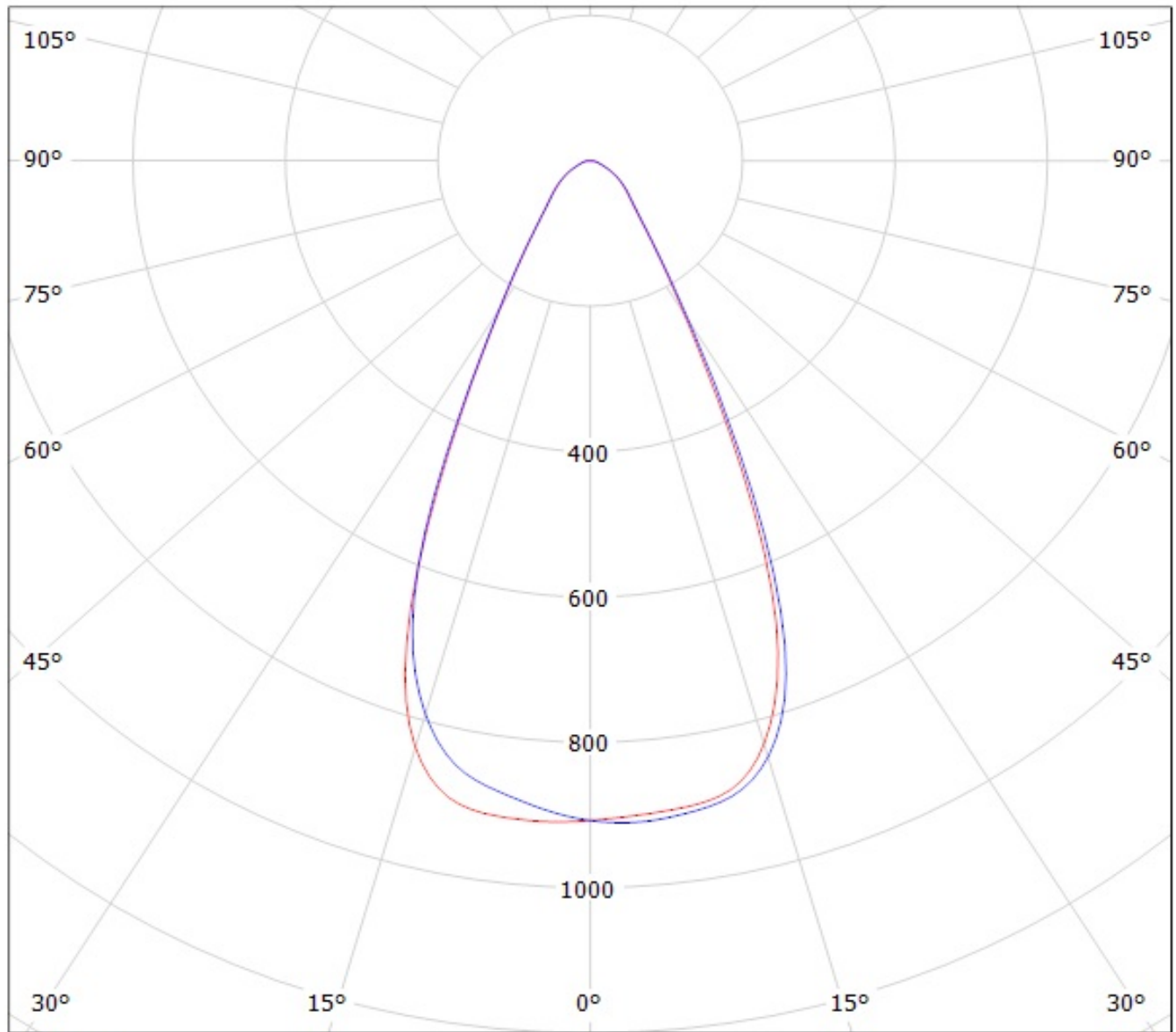


cd/klm

— C0 - C180 — C90 - C270

$\eta = 92\%$

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

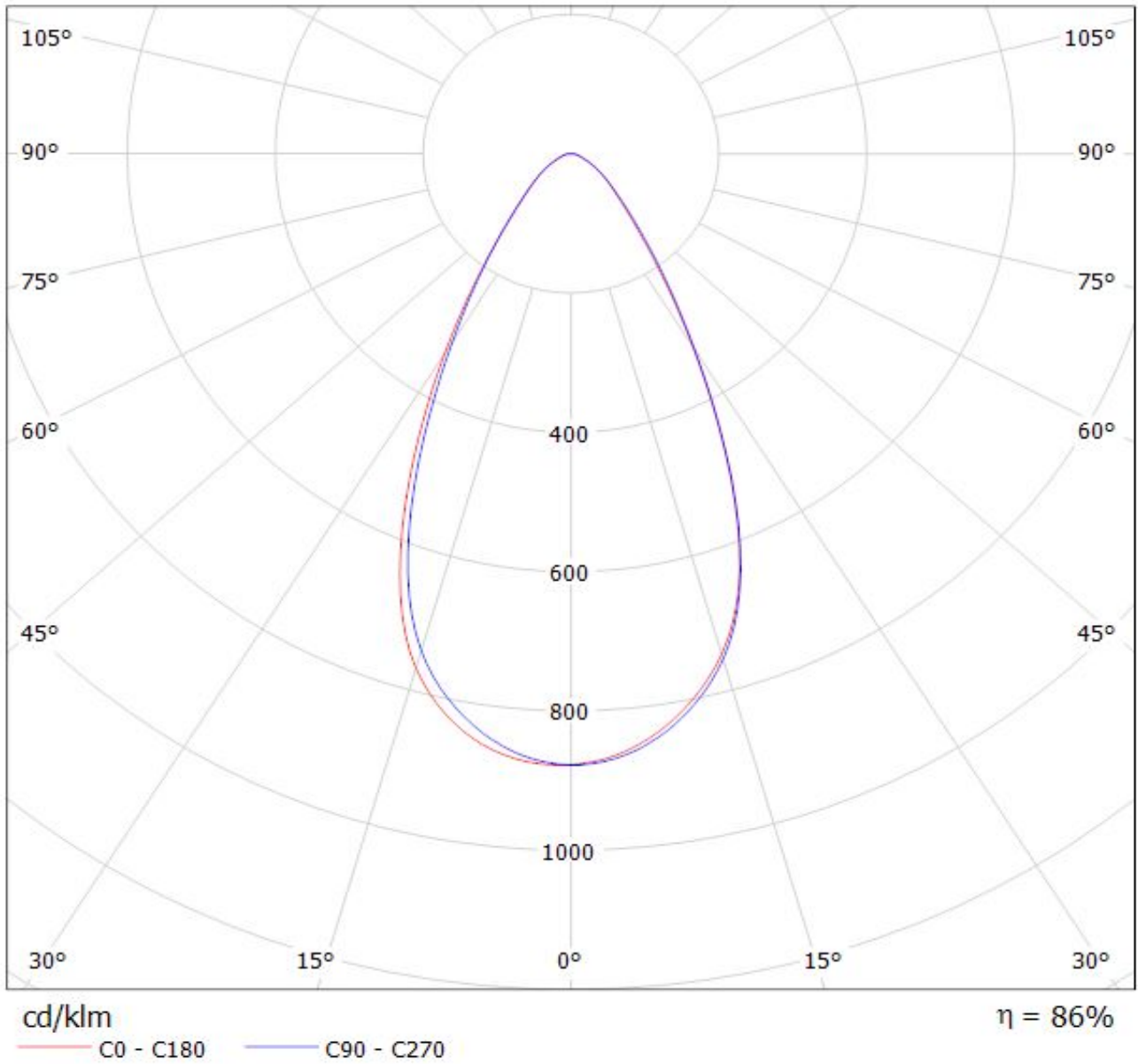


cd/klm

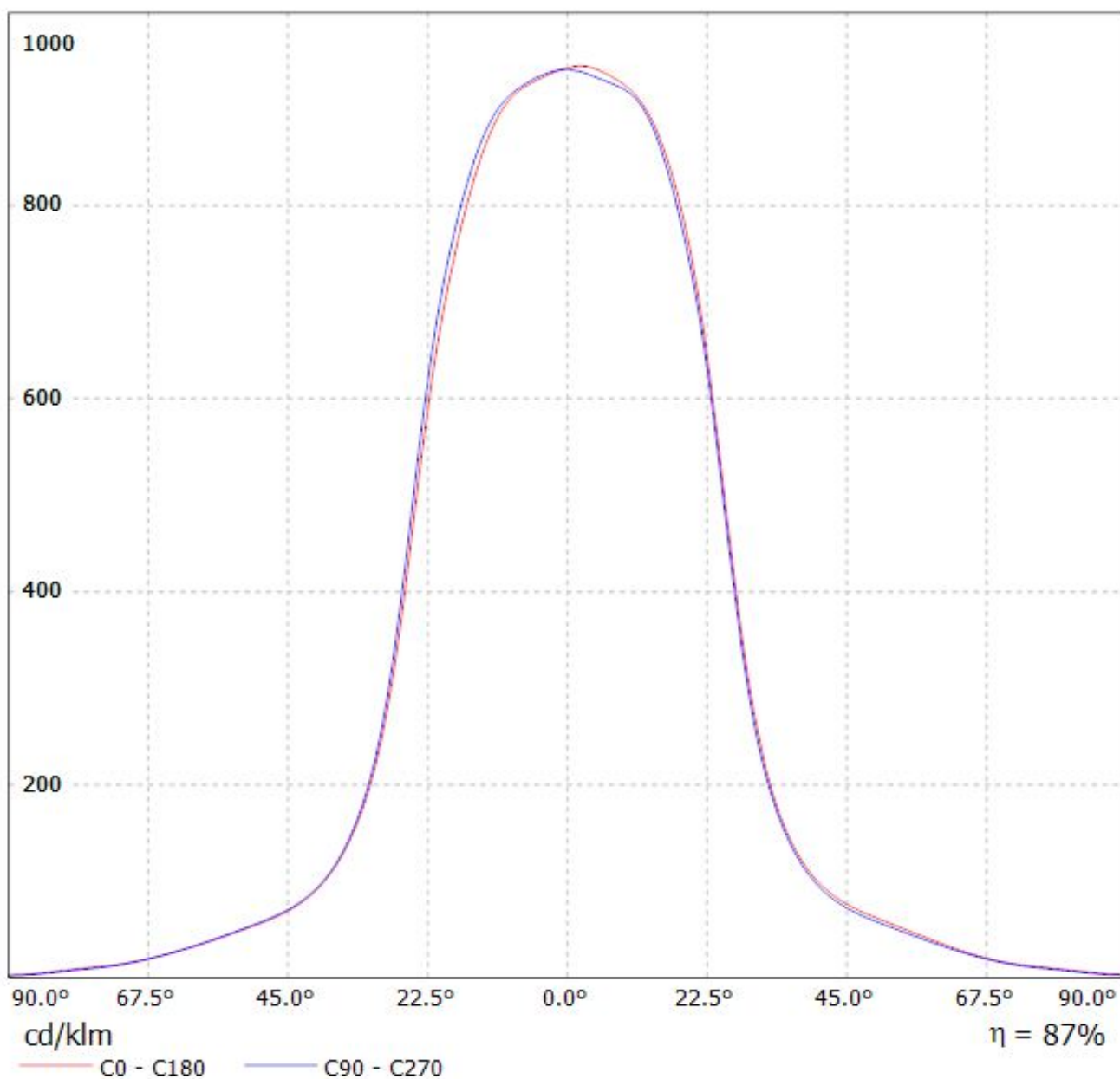
— C0 - C180

— C90 - C270

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

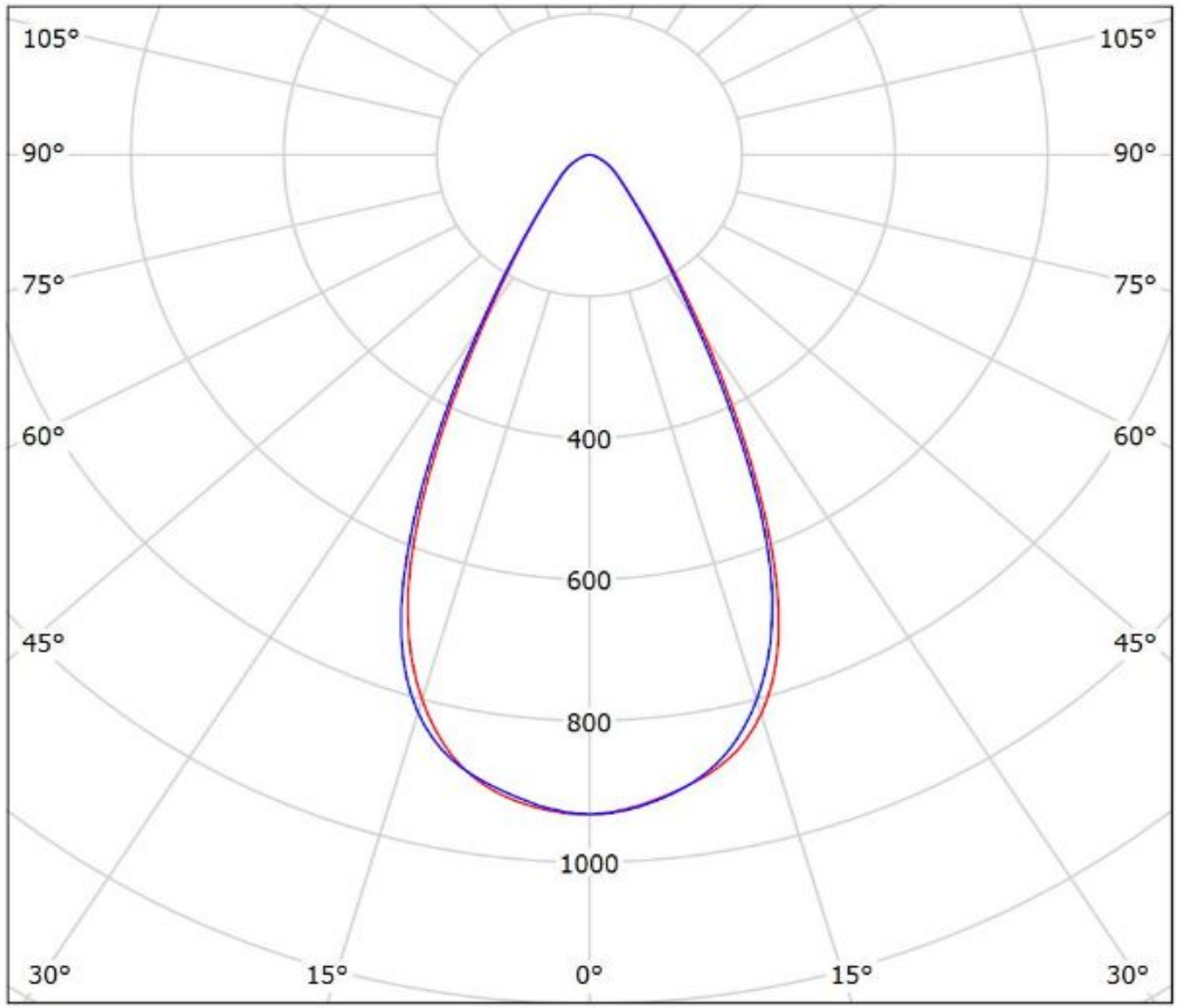


Luminaire: LEDiL Oy C12361_HB-2X2-W_(LUXEON_T)_1 Eff.87.0%
Lamps: 1 x LUXEON_T 2x2 (294lm@250mA)



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

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



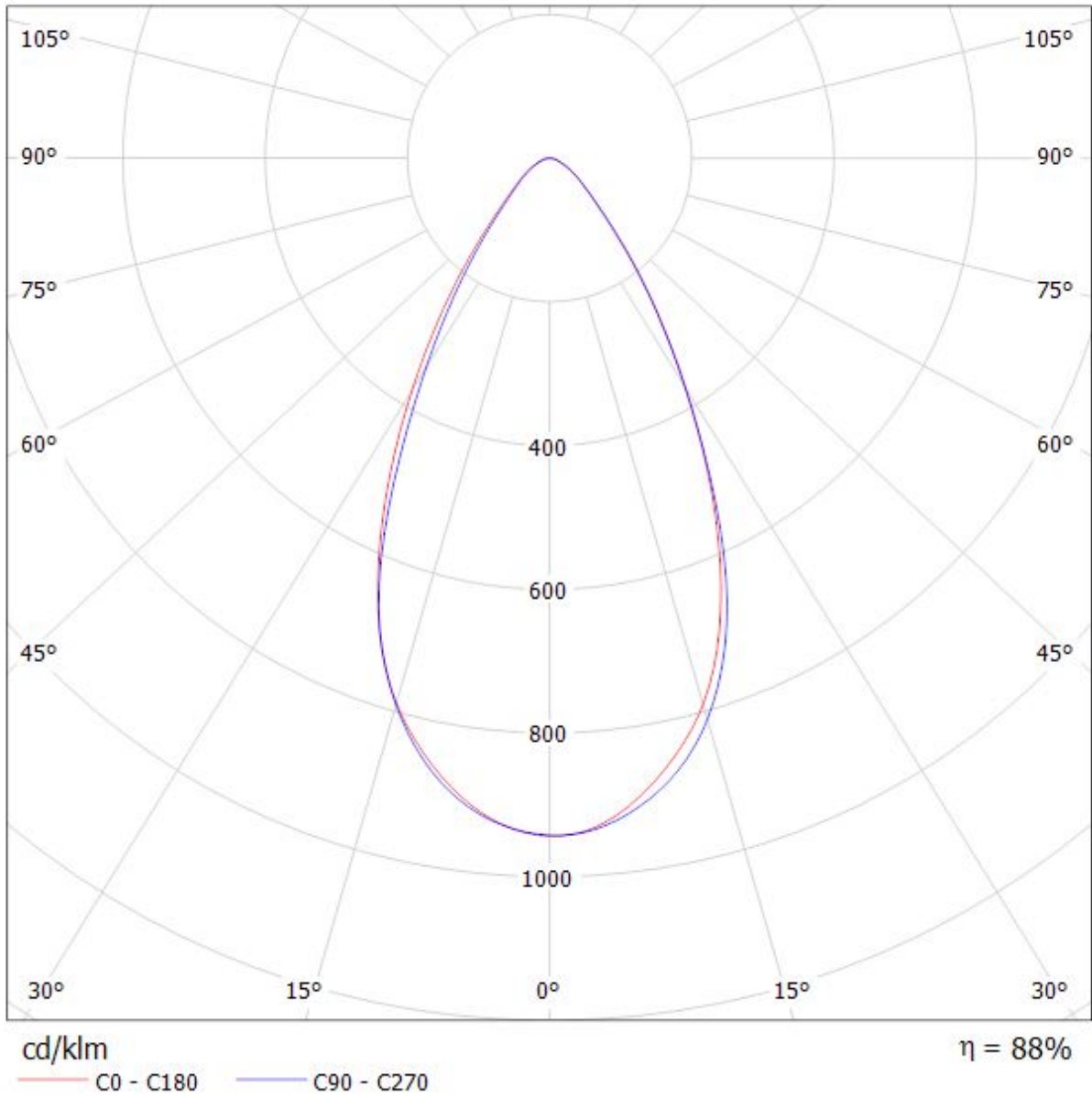
cd/klm

— C0 - C180

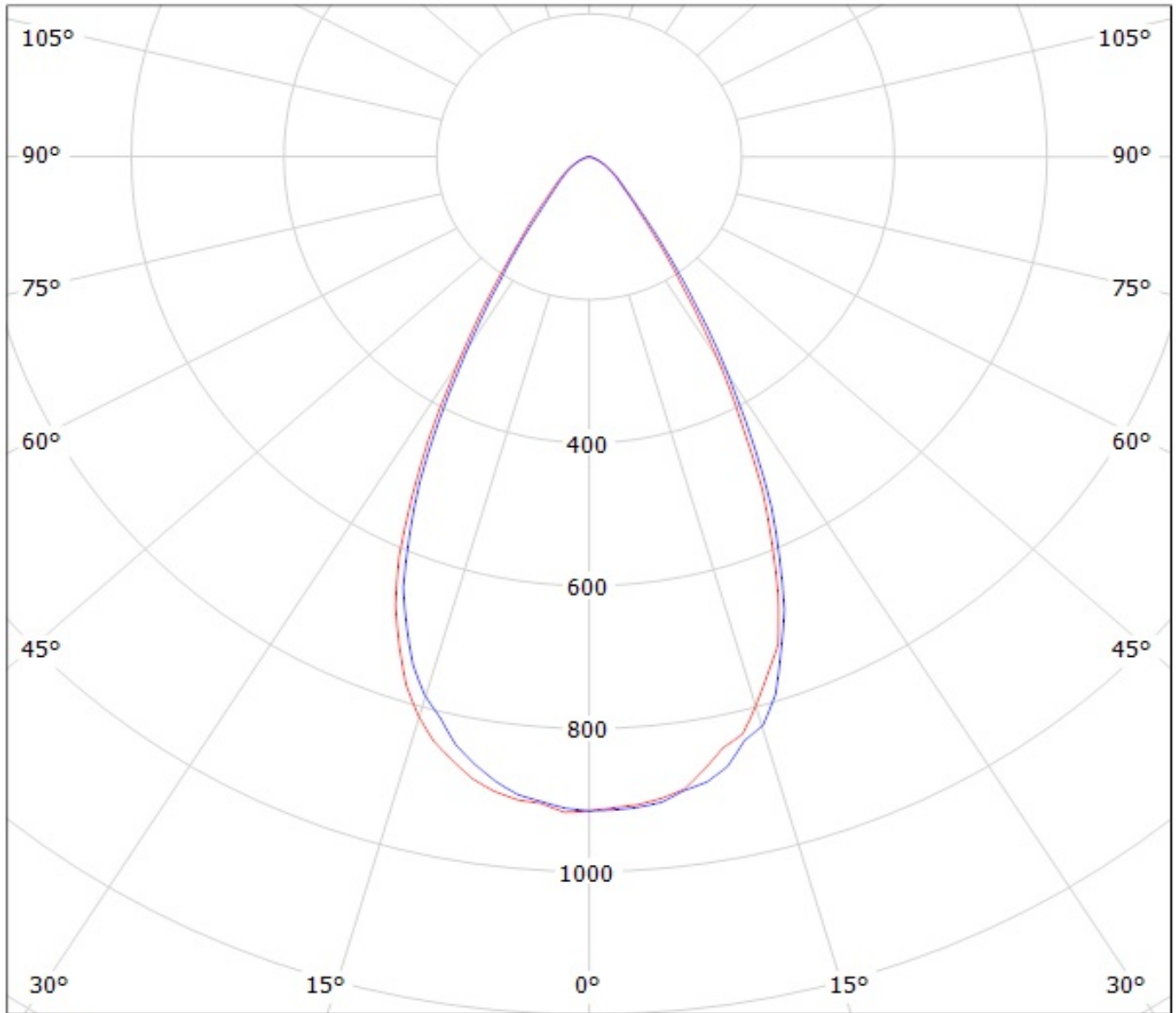
— C90 - C270

$\eta = 86\%$

Luminaire: LEDiL 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-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



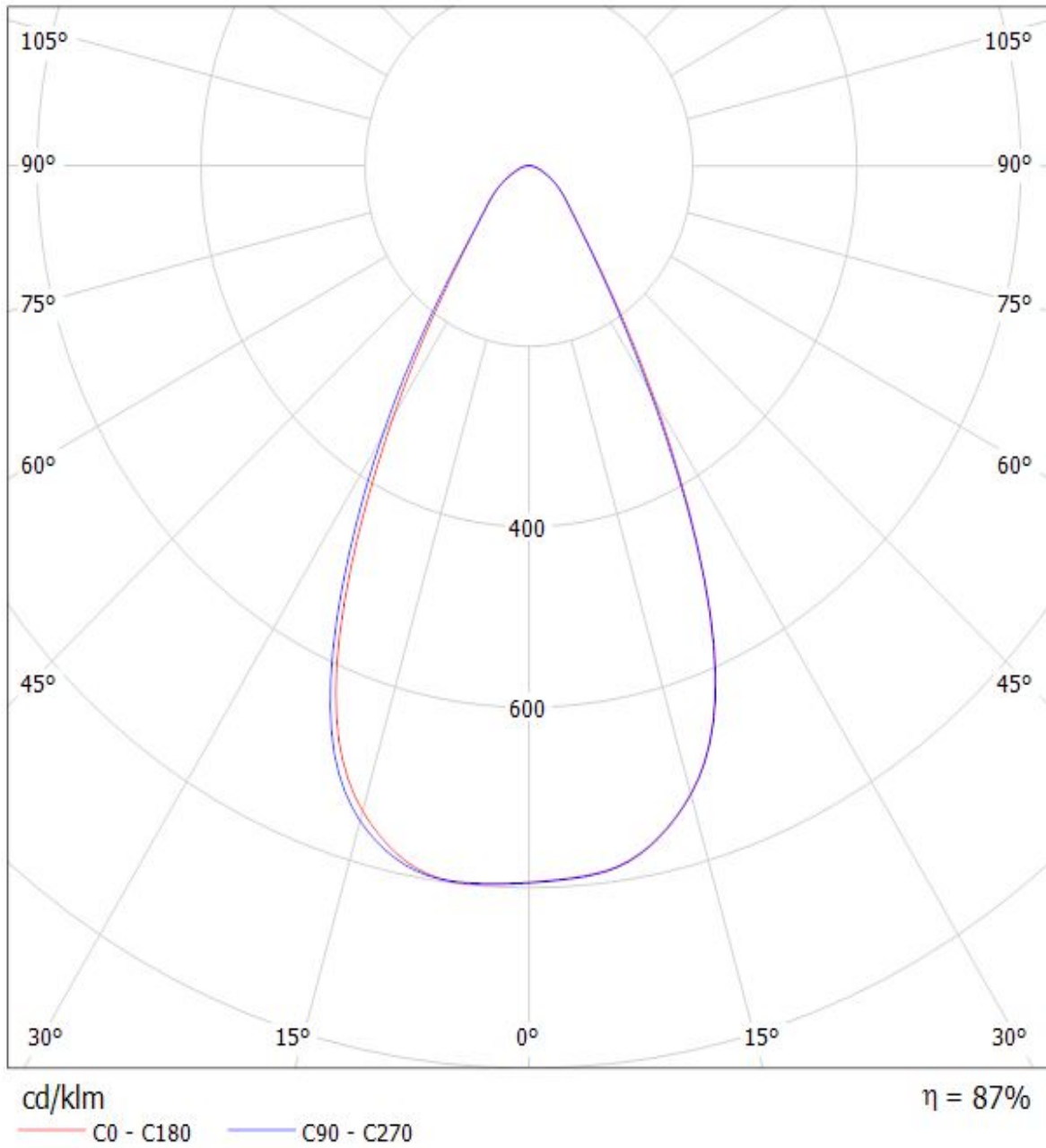
cd/klm

— C0 - C180

— C90 - C270

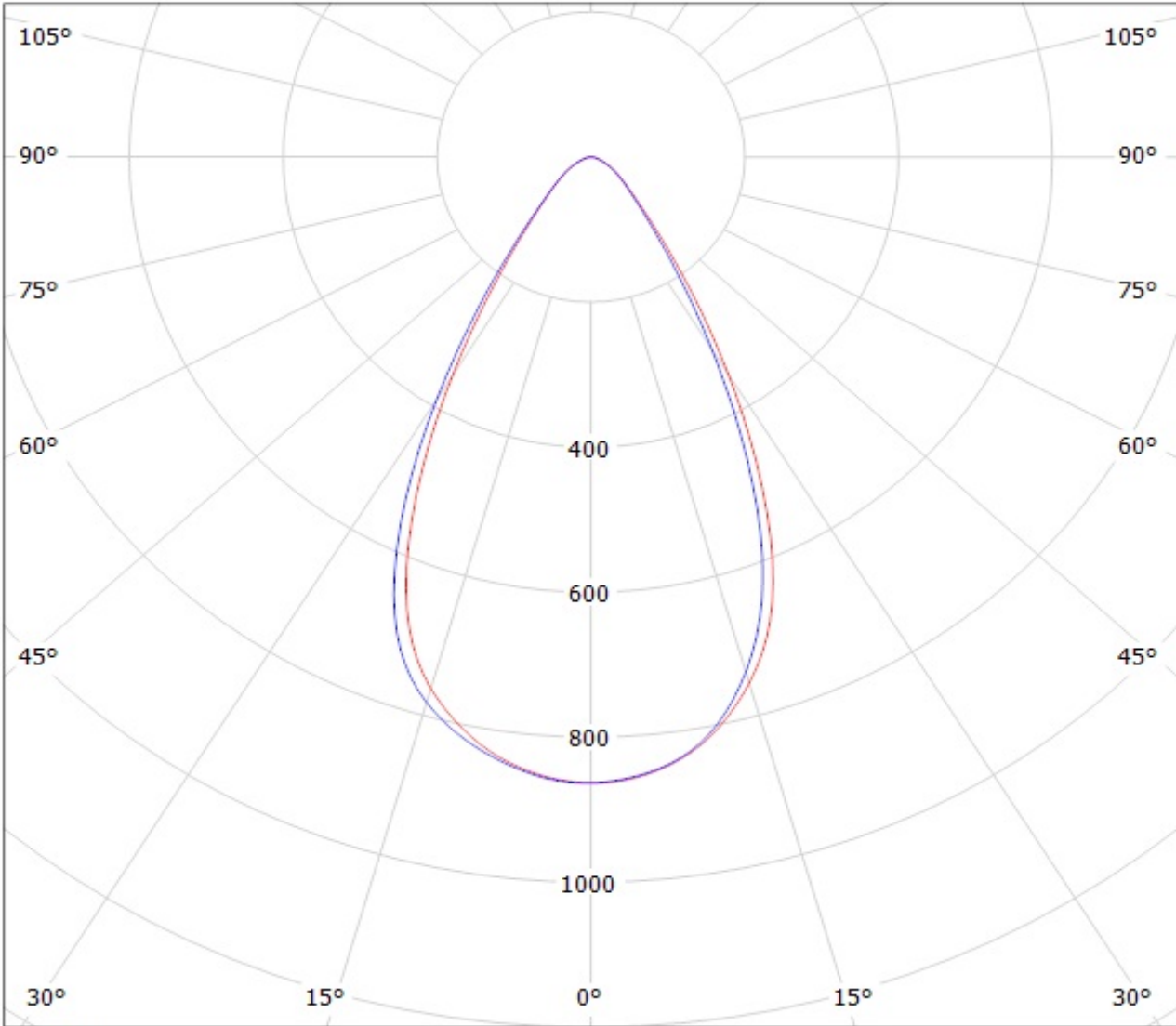
Luminaire: LEDiL Oy C12361_HB-2X2-W_(XP-L) Eff.87.0%

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 (XM-L) Efficiency=89%

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



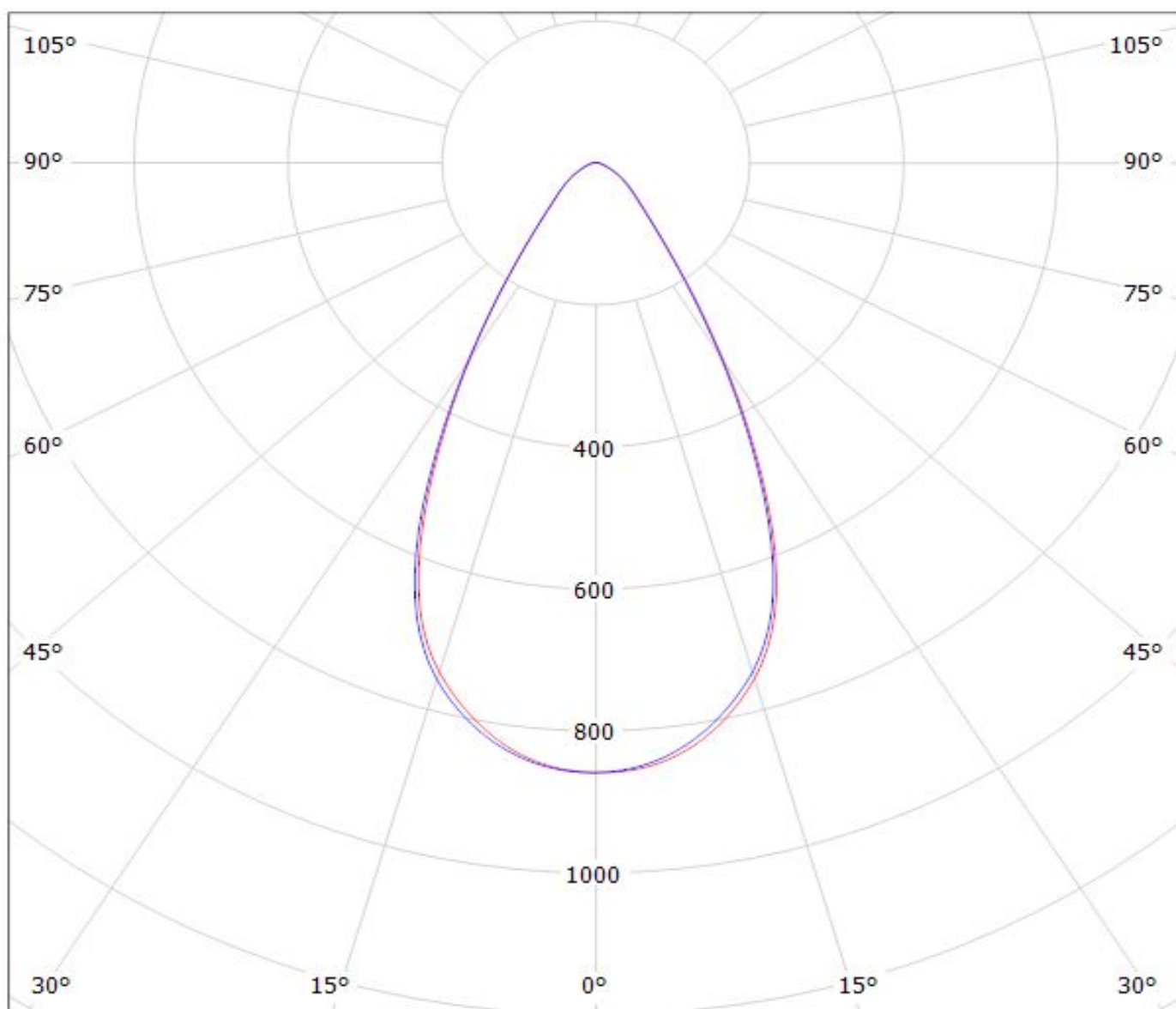
cd/klm

— 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

$\eta = 86\%$

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.