

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	glue, pin, screw
Status	production ready
ROHS Comliant	Yes
Date Updated	21/04/2016



OPTICAL PROPERTIES

LED	Viewing	Light	Effi-		Connector
	Angle	Beam	ciency	cd/lm	
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	-
XHP35 HI	sim: 52	HighBay	sim: 93 %	sim: 1.200	-
XP-G3	sim: 54	HighBay	sim: 94 %	sim: 1.000	-
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	-
NVSxx19A	sim: 50	HighBay	-	-	-
NCSxx19A	48 deg	HighBay	85 %	1.100	-
NS9x383	54 deg	HighBay	86 %	0.880	-
NVSxx19B/NVSxx19C	51 deg	HighBay	85 %	0.960	-
NCSxx19B	50 deg	HighBay	85 %	1.000	-



PRODUCT DATASHEET

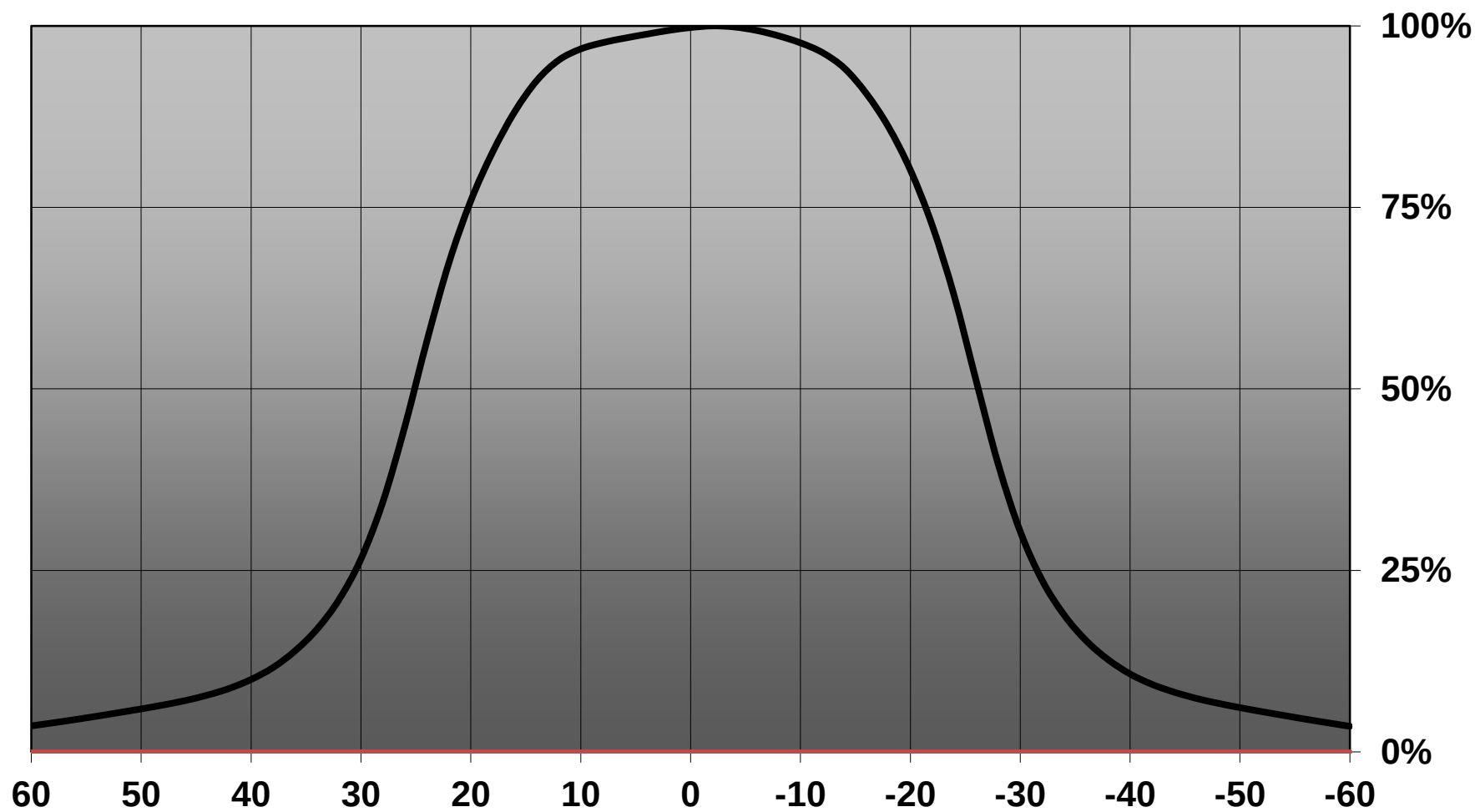
High Bay series

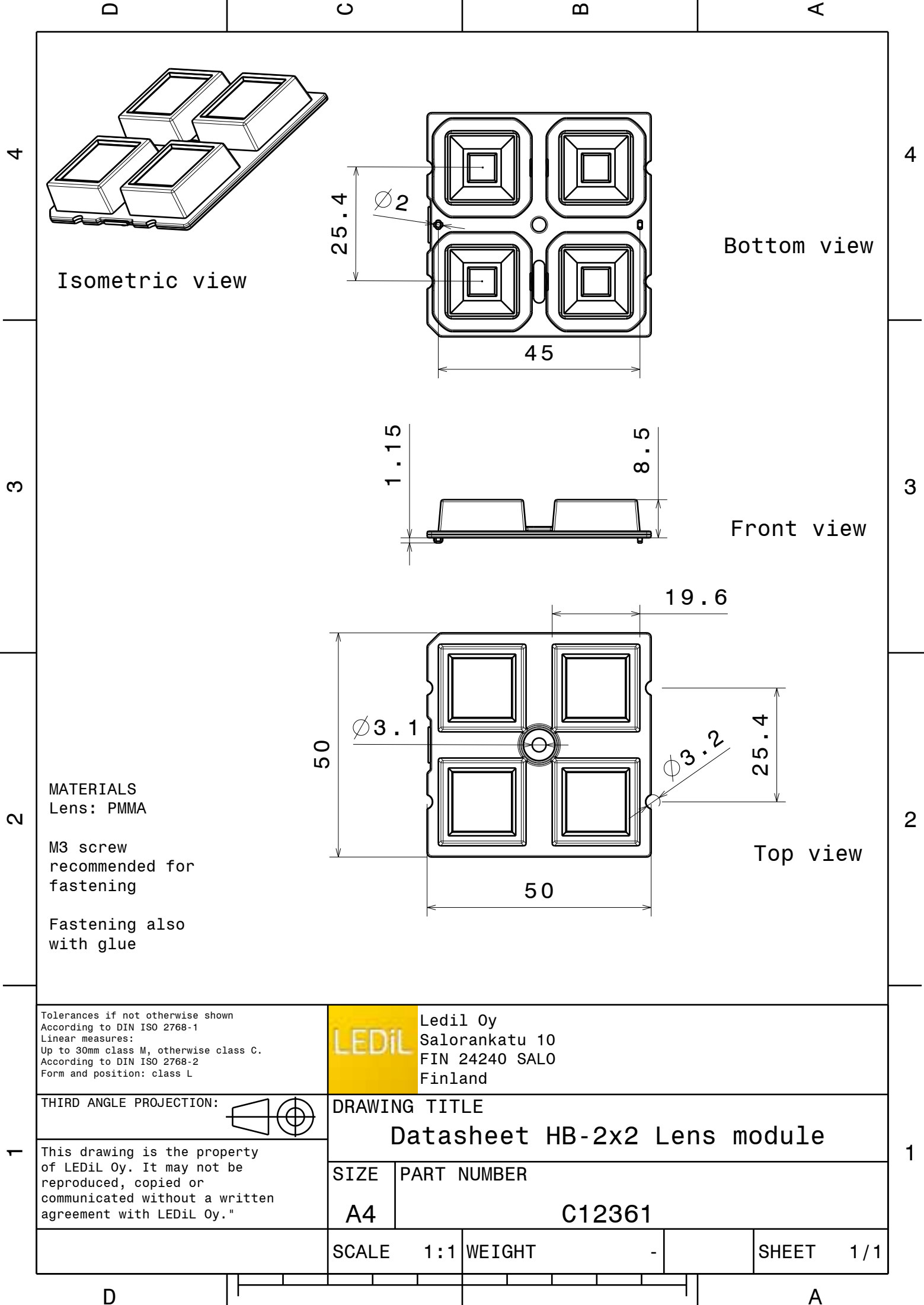
last update 21/4/2016

OPTICAL PROPERTIES

LED	Viewing Angle	Light Beam	Efficiency	cd/lm	Connector
NWSx229A	57 deg	HighBay	86 %	0.860	-
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 2x8/740 DA 523	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	-
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	-
TL1L4	48 deg	HighBay	81 %	0.980	-
RLE G1 49x223mm 4000lm xxx EXC OTB2	52 deg	HighBay	94 %	0.980	-
RLE G1 49x245mm 4000lm xxx EXC OTB2	52 deg	HighBay	94 %	0.980	-
RLE G1 49x121mm 2000lm xxx EXC OTB2	52 deg	HighBay	94 %	0.980	-
RLE G1 49x133mm 2000lm xxx EXC OTB2	52 deg	HighBay	94 %	0.980	-
XQ-E HI	sim: 42	HighBay	sim: 93 %	sim: 1.370	-

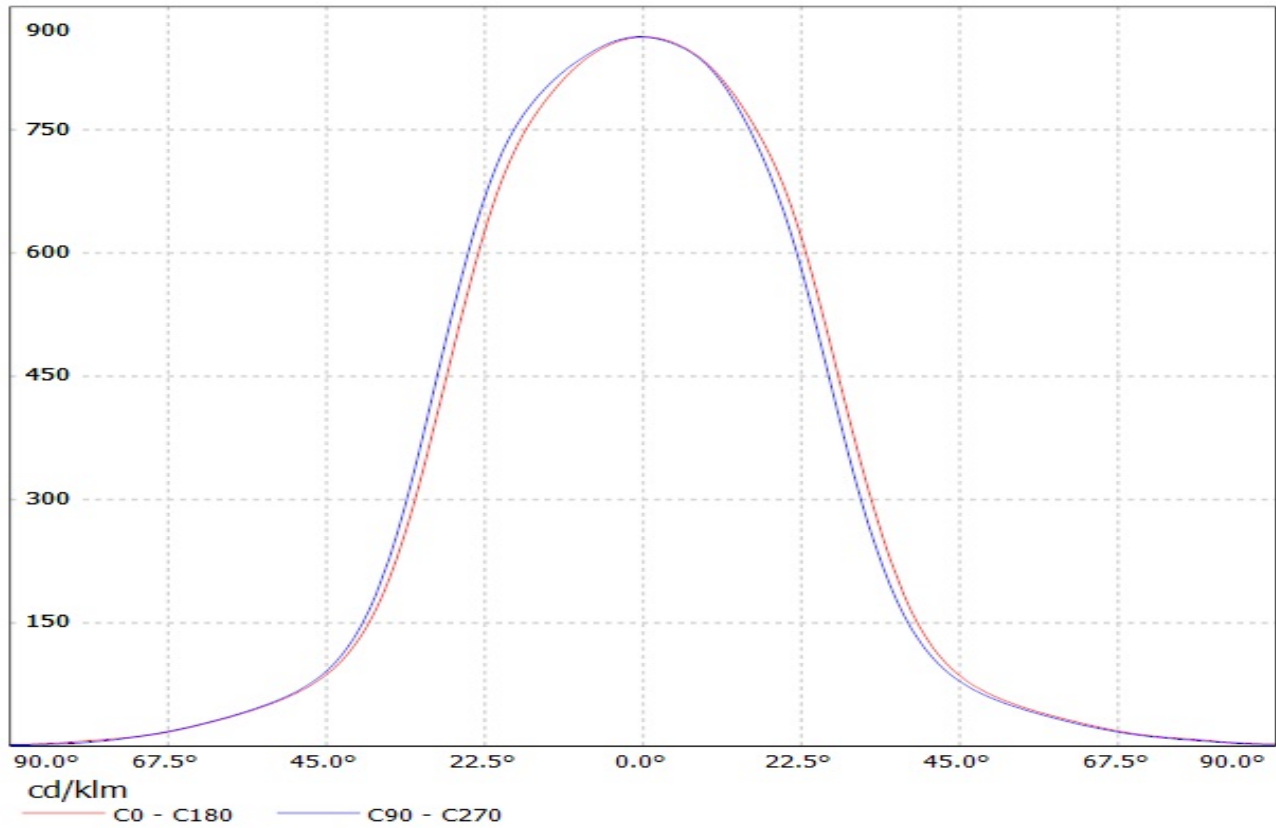
Relative intensity of C12361_HB-2X2-W-(XPG2)



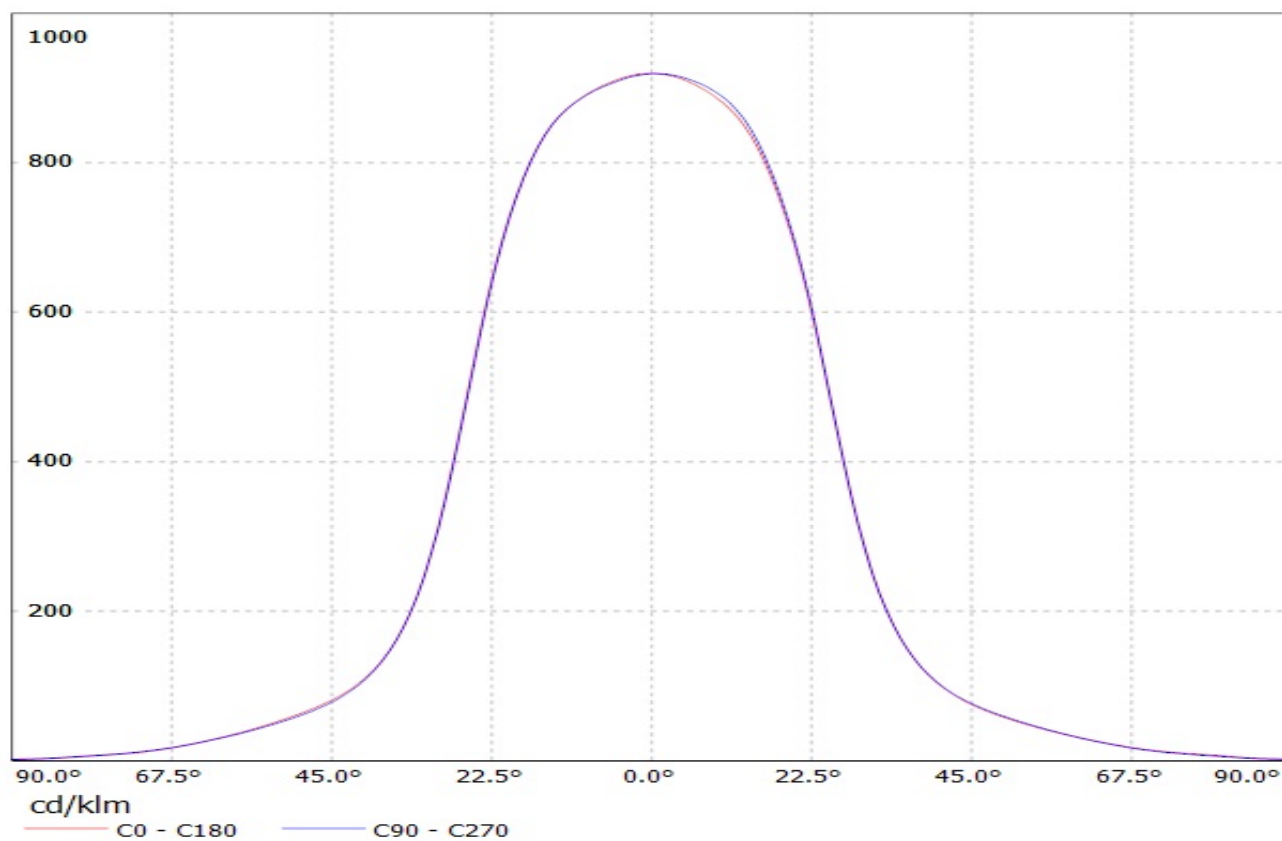


Tolerances if not otherwise shown According to DIN ISO 2768-1 Linear measures: Up to 30mm class M, otherwise class C. According to DIN ISO 2768-2 Form and position: class L		Ledil Oy Salorankatu 10 FIN 24240 SALO Finland						
THIRD ANGLE PROJECTION: 		DRAWING TITLE Datasheet HB-2x2 Lens module						
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

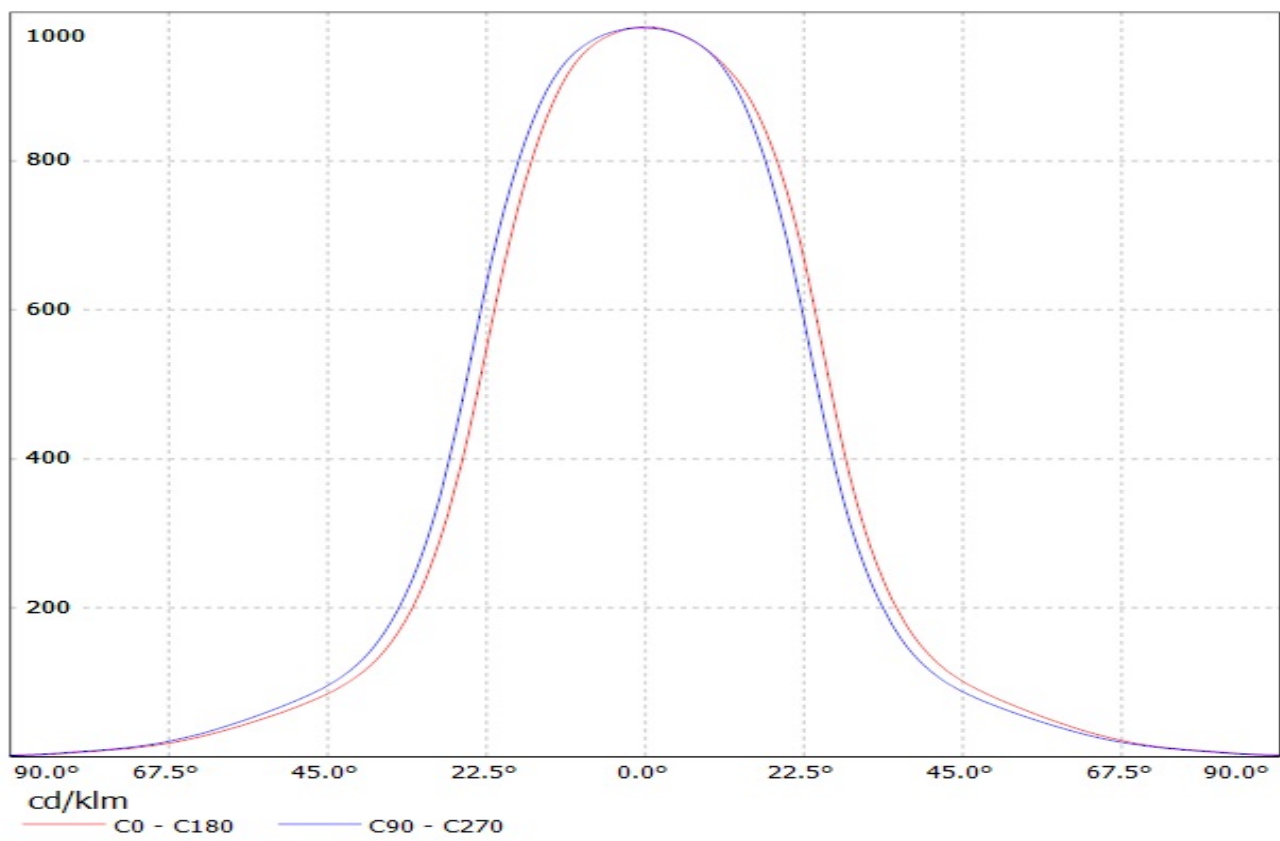
Luminaire: LEDIL OY C12361_HB-2X2 (XM-L) Efficiency=89%
Lamps: 1 x Cree XM-L (395lm @ 250mA)



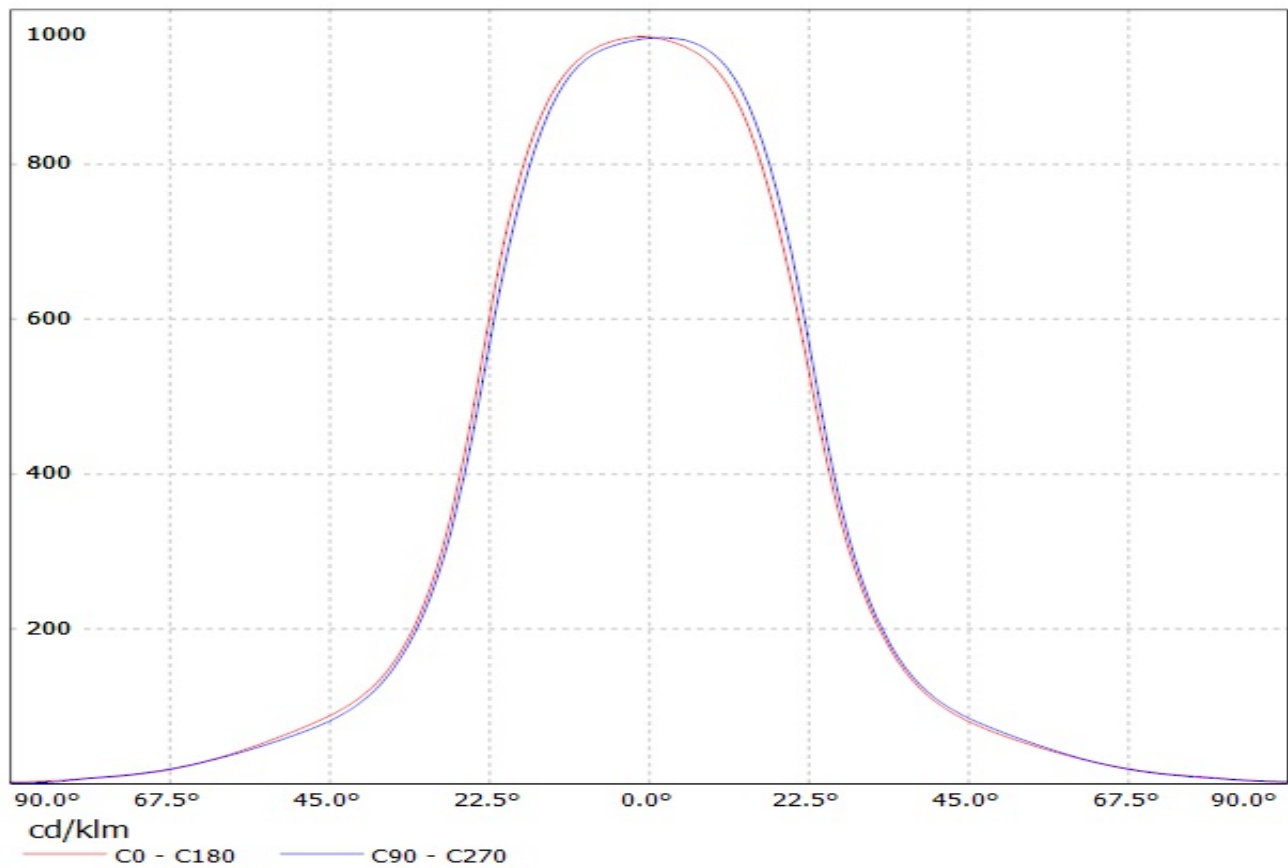
Luminaire: LEDIL OY C12361_HB-2X2 (XP-G) Efficiency=88%
Lamps: 1 x Cree XP-G (257lm @ 250mA)



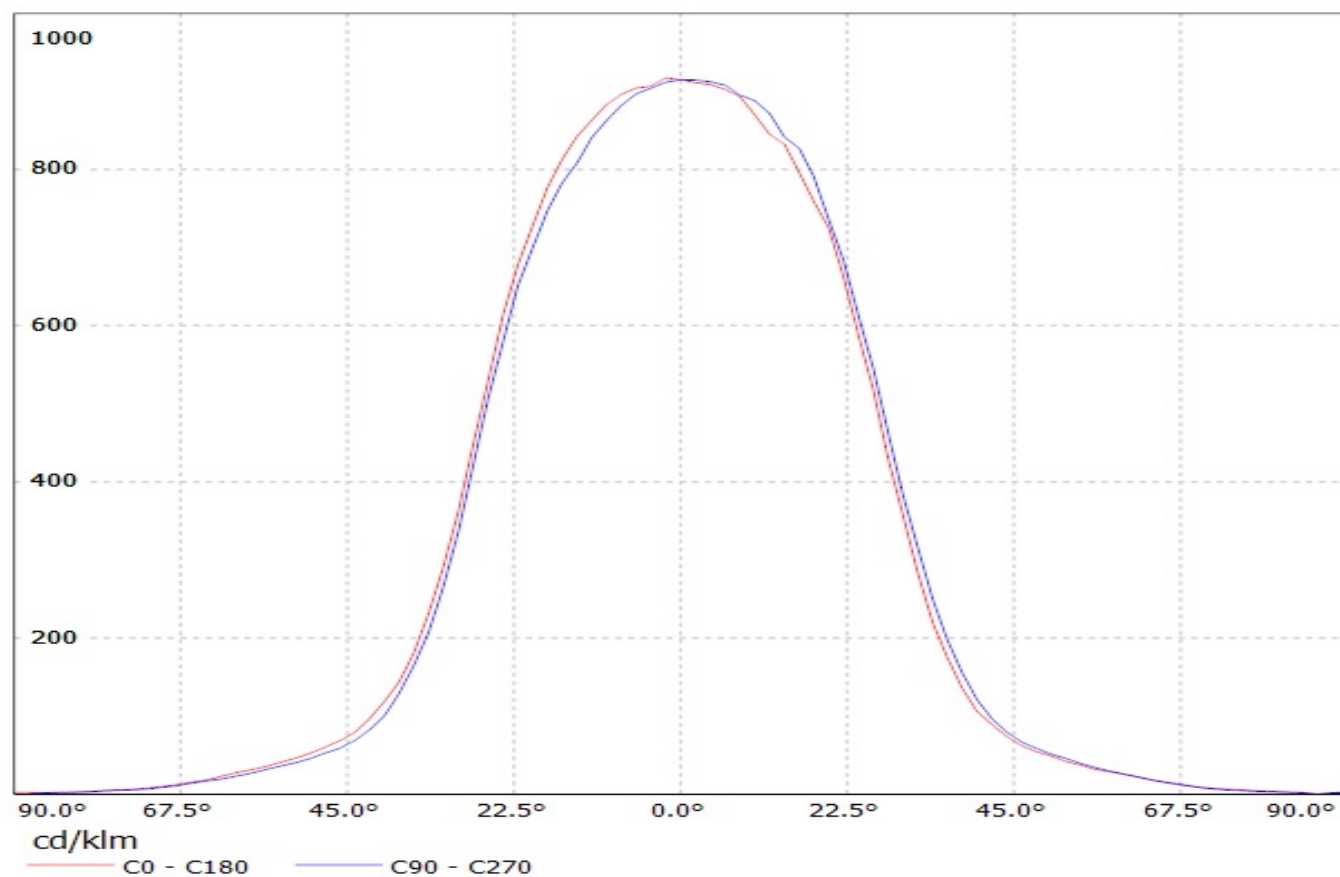
Luminaire: LEDIL OY C12361_HB-2X2 (XT-E AWT) Efficiency=89%
Lamps: 1 x Cree XT-E AWT (390lm@250mA)



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

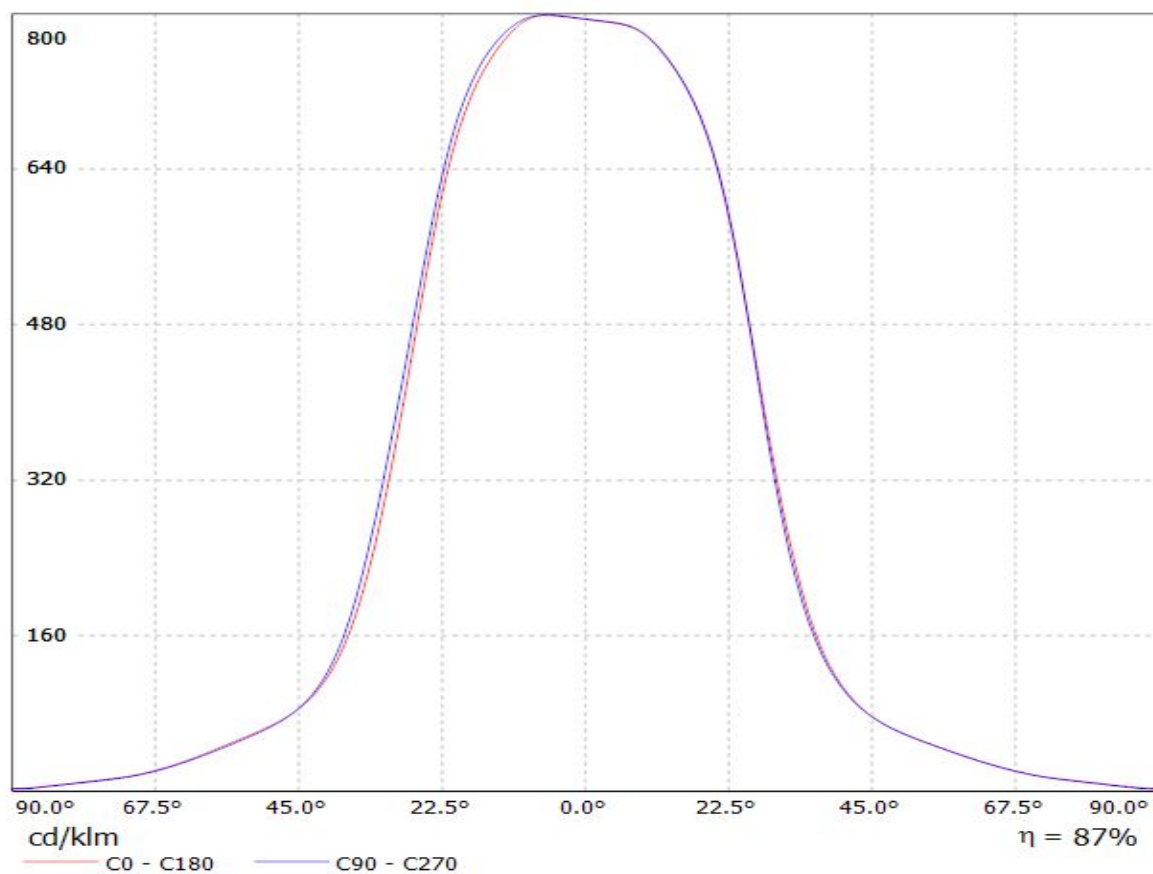


Luminaire: Ledil Oy C12361_HB-2X2-W_(XM-L2) Efficiency=87%
Lamps: 1 x Cree XM-L2 (CXMLBWT-0-7B4-T30-0L-001) 360lm @ 250mA CCT=3220K P=2.8W I=250mA

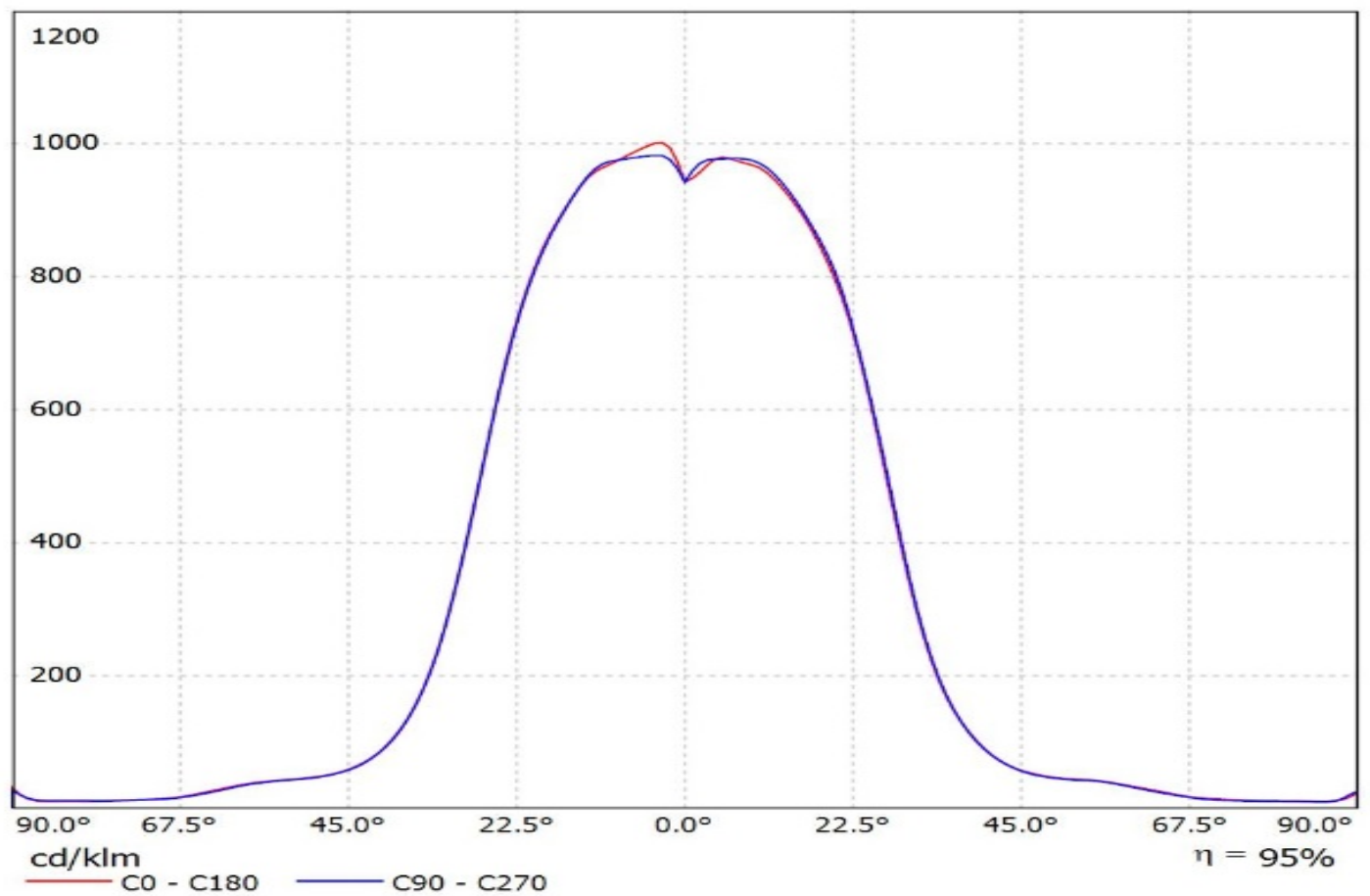


Luminaire: LEDiL Oy C12361_HB-2X2-W_(XP-L) Eff.87.0%

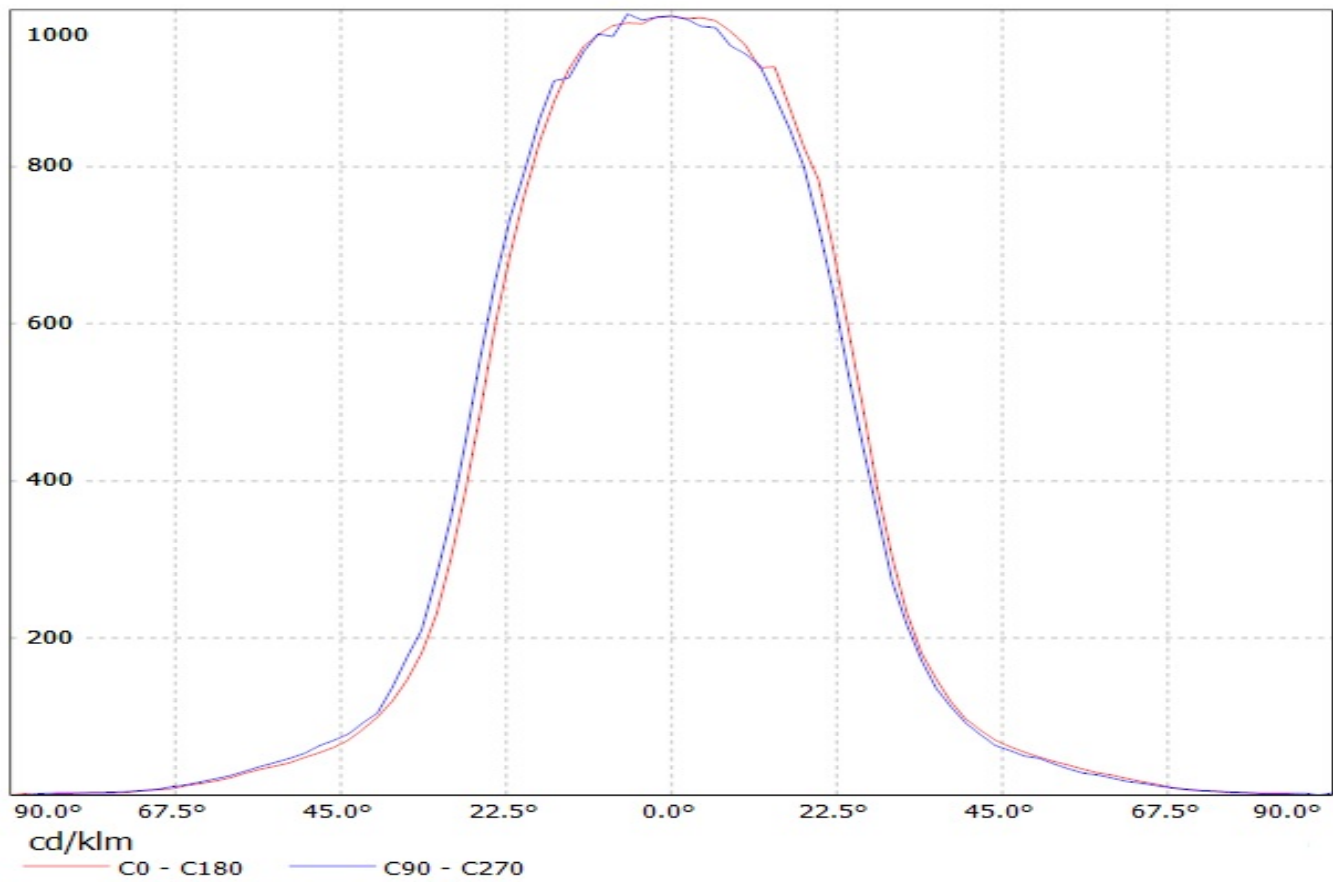
Lamps: 1 x CREE_XP-L_2x2_(XPLAWT-0-1B0-V40-00-0001)_504.373lm@250mA_CCT=7600K_P=2.79963W_I=249.9mA



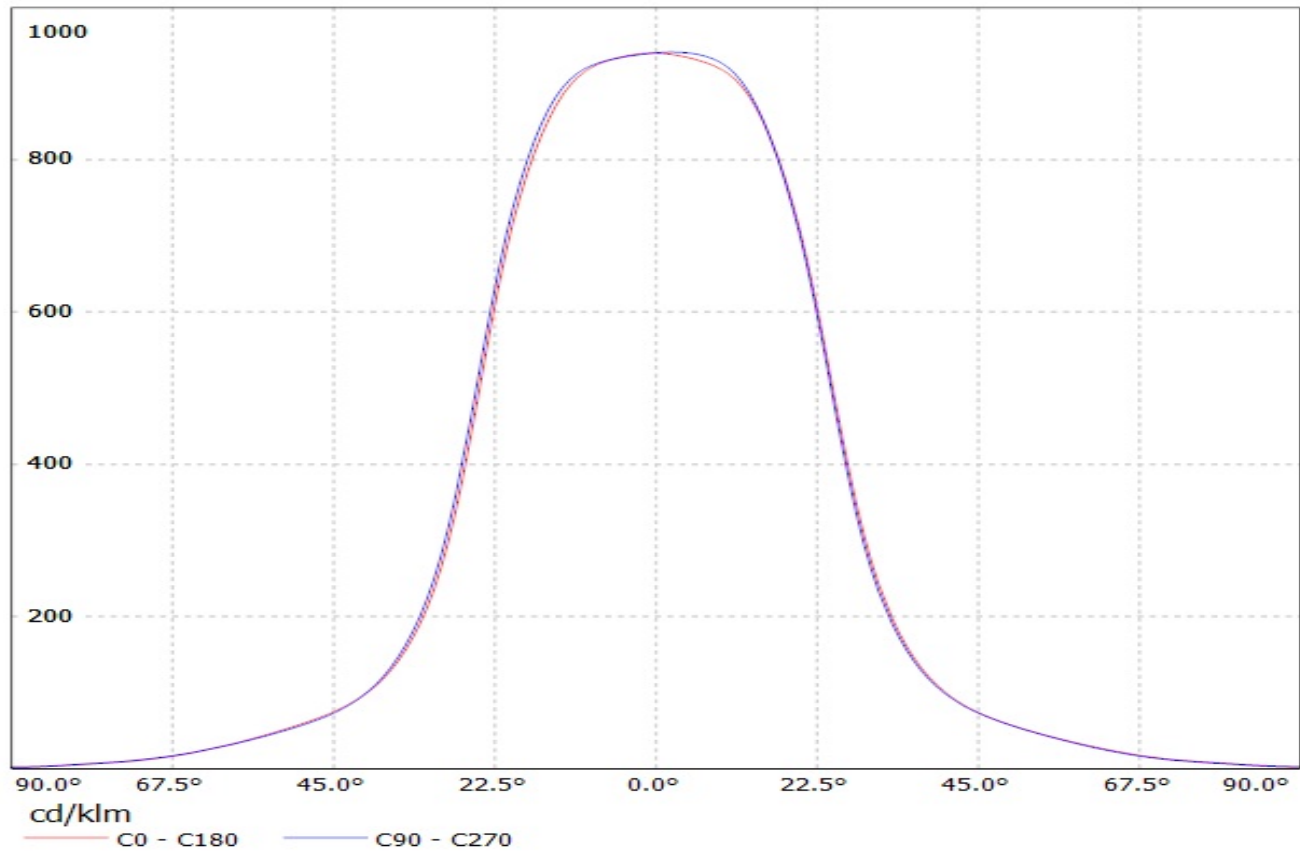
Luminaire: Ledil Oy C12361_HB-2X2-W_(XP-G3)_SIMULATED
Lamps: 1 x Cree XP-G3



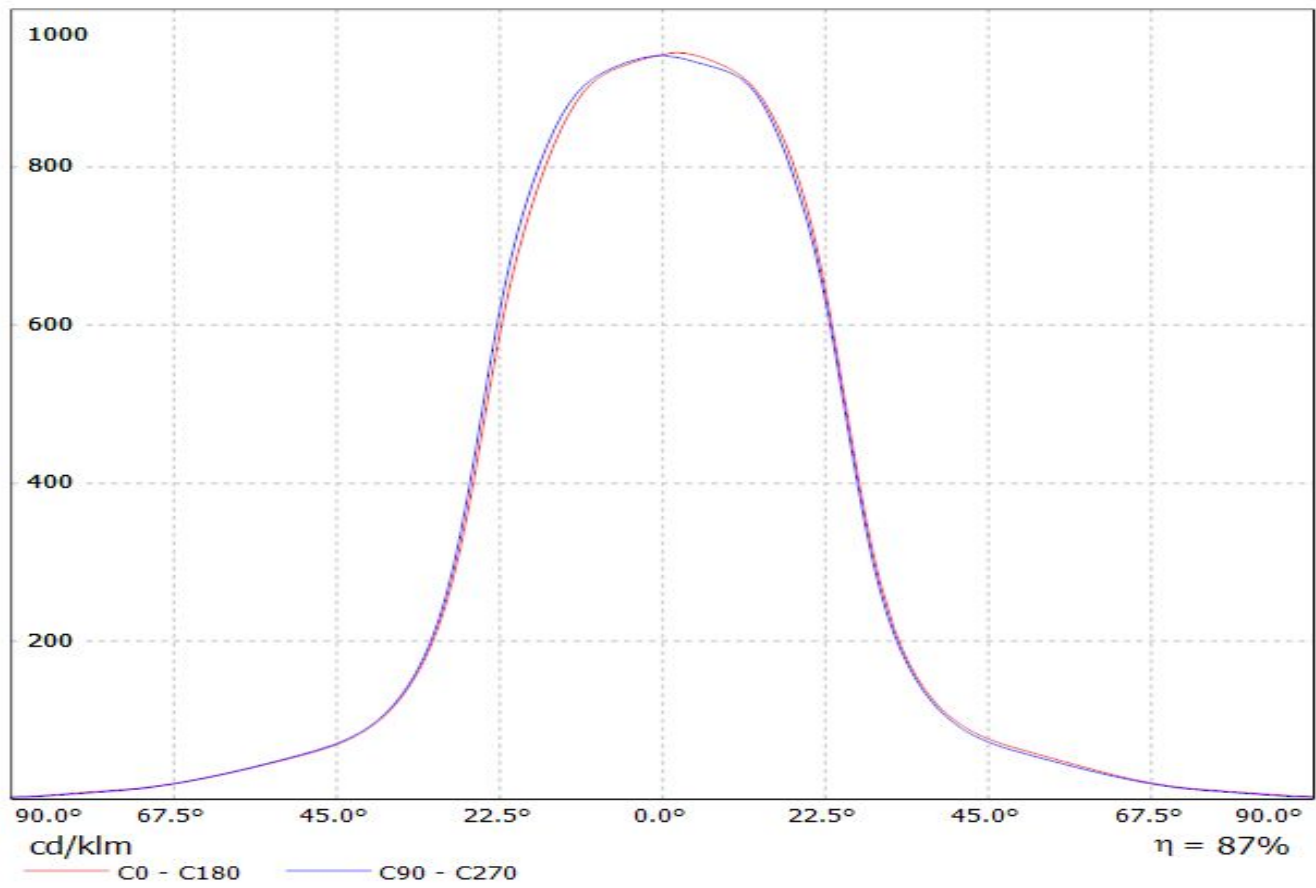
Luminaire: Ledil Oy C12361_HB-2X2-W_(3535_Ceramic_gen2) Efficiency=86%
Lamps: 1 x LG 3535 Ceramic gen2 (PKG5700K) 461lm @ 250mA CCT=6600K P=2.9W I=250mA



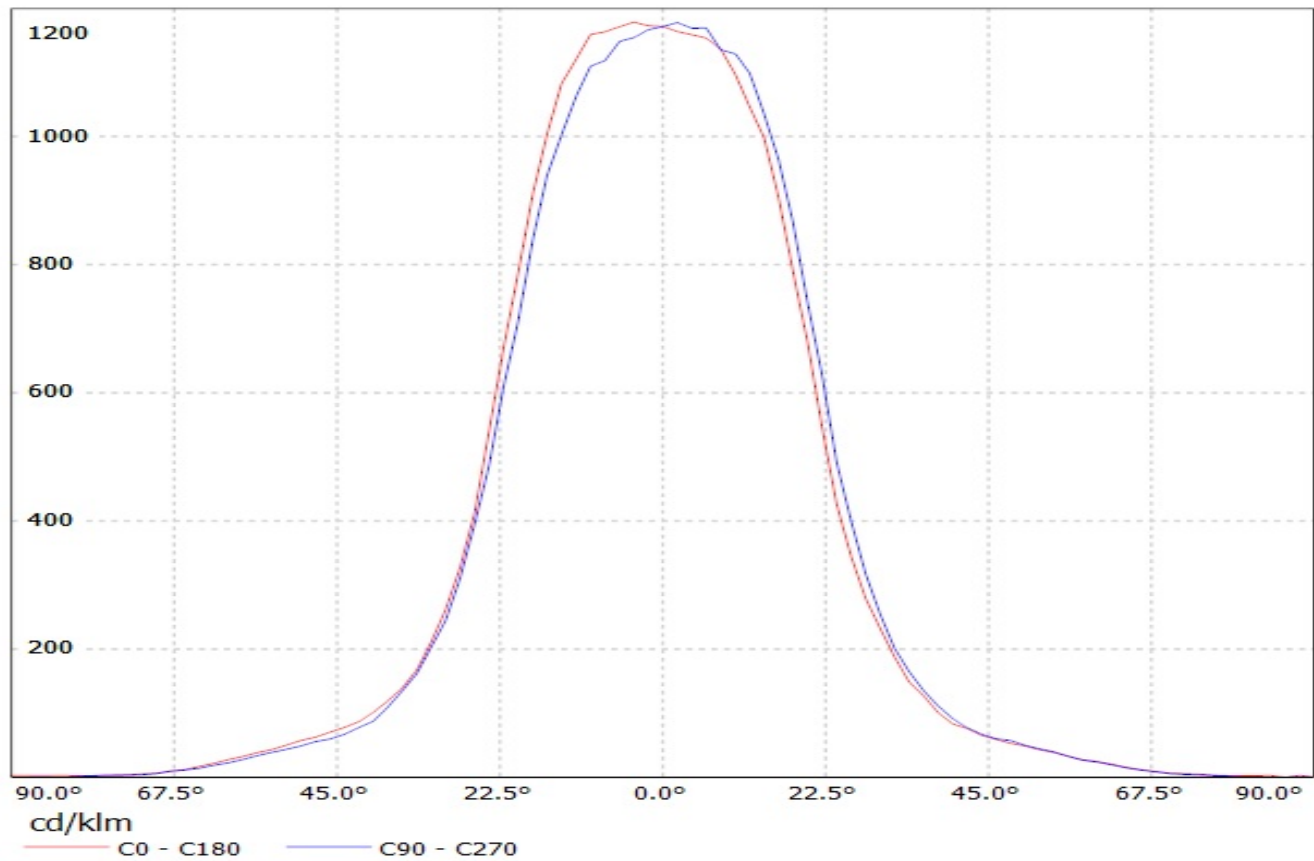
Luminaire: LEDIL OY C12361_HB-2X2 (RE-ES) Efficiency=87%
Lamps: 1 x Luxeon Rebel-ES (339lm @ 250mA)



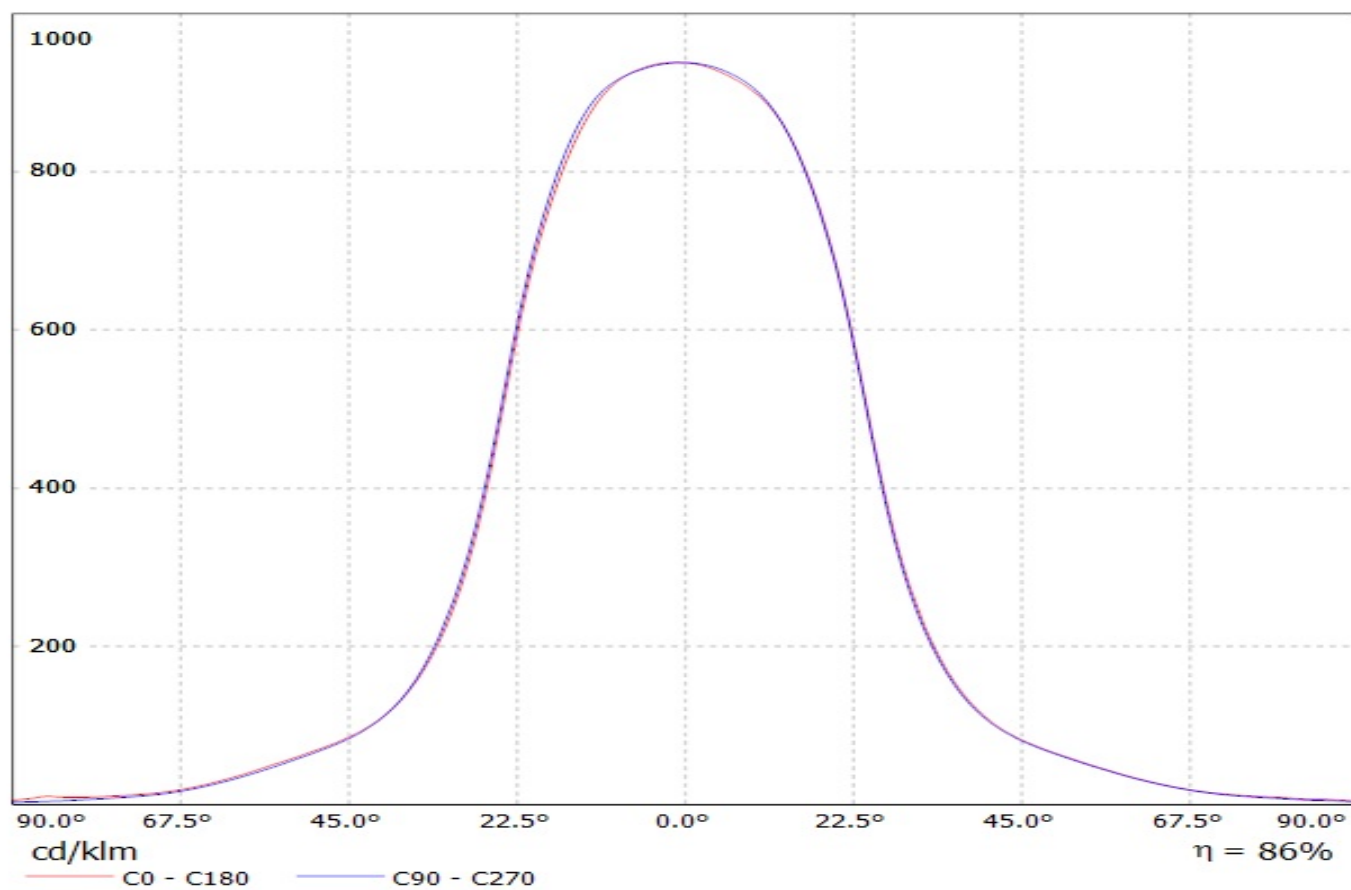
Luminaire: LEDiL Oy C12361_HB-2X2-W_(LUXEON_T)_1 Eff.87.0%
Lamps: 1 x LUXEON_T 2x2 (294lm@250mA)



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

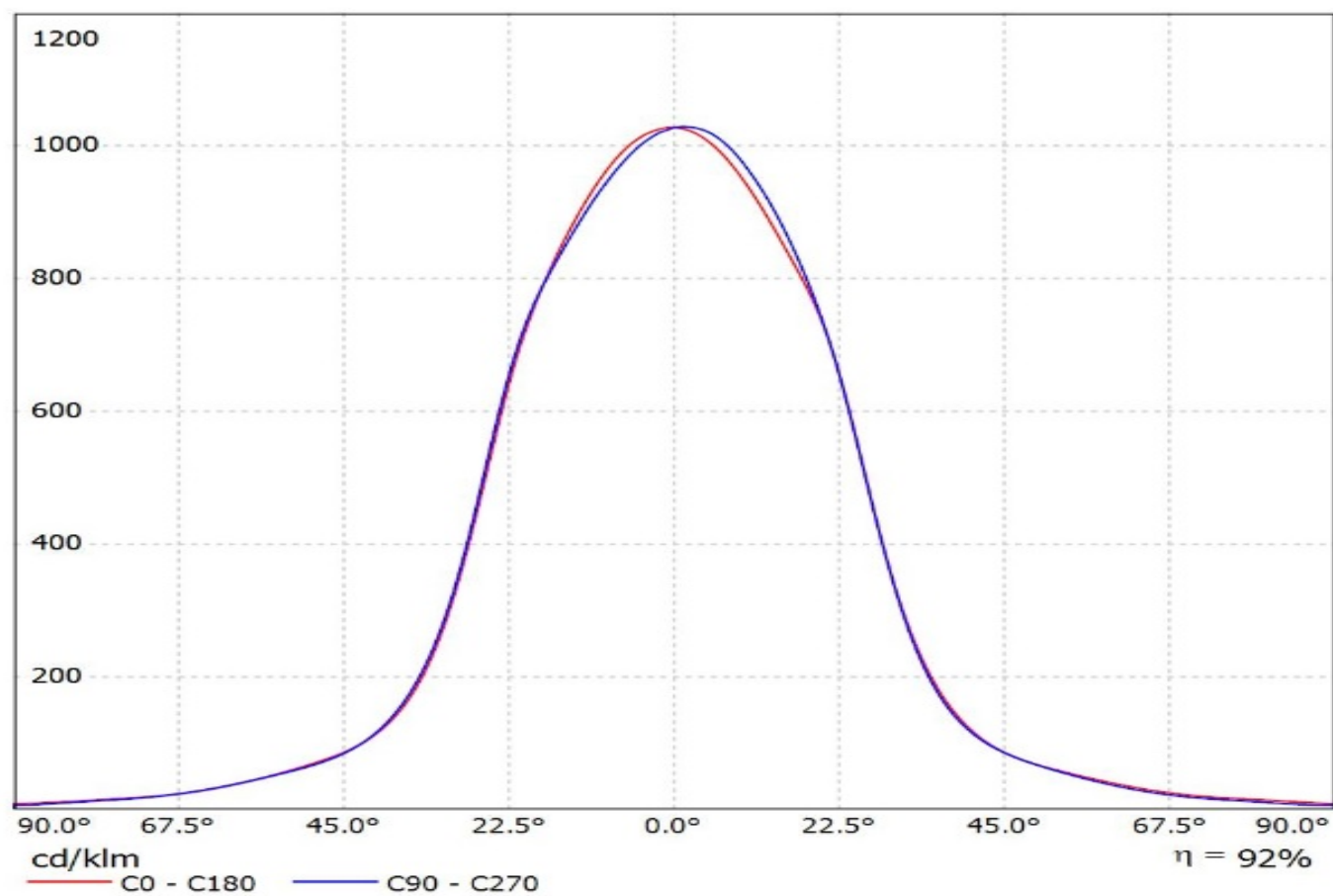


Luminaire: LEDiL Oy C12361_HB-2X2-W_(LUXEON_Q) Eff.86.3%
Lamps: 1 x LUXEON_Q_2x2_(LHQ-3080)_298.363lm@250mA_P=2.87385W_I=249.9mA

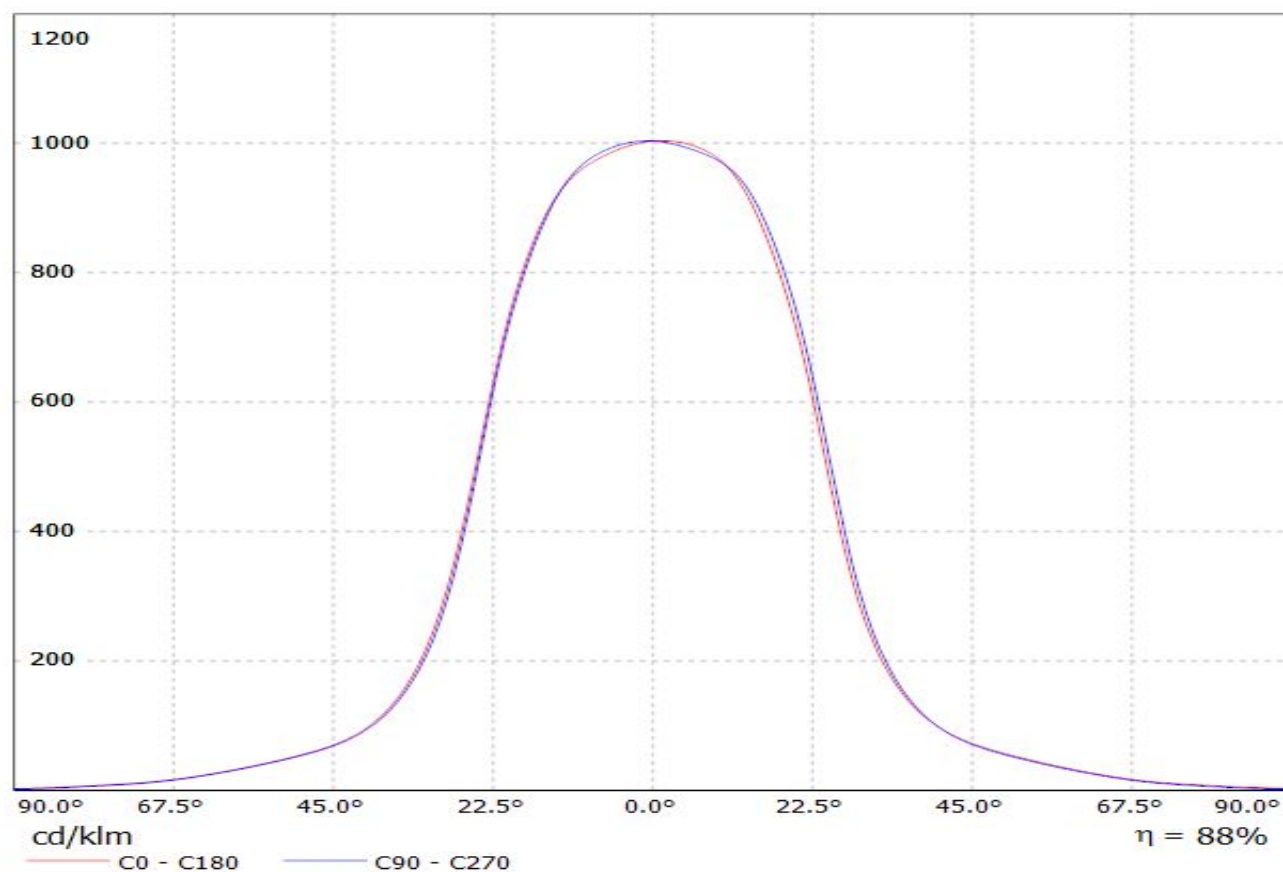


Luminaire: Ledil C12361_HB-2X2-W_(Luxeon_MZ)

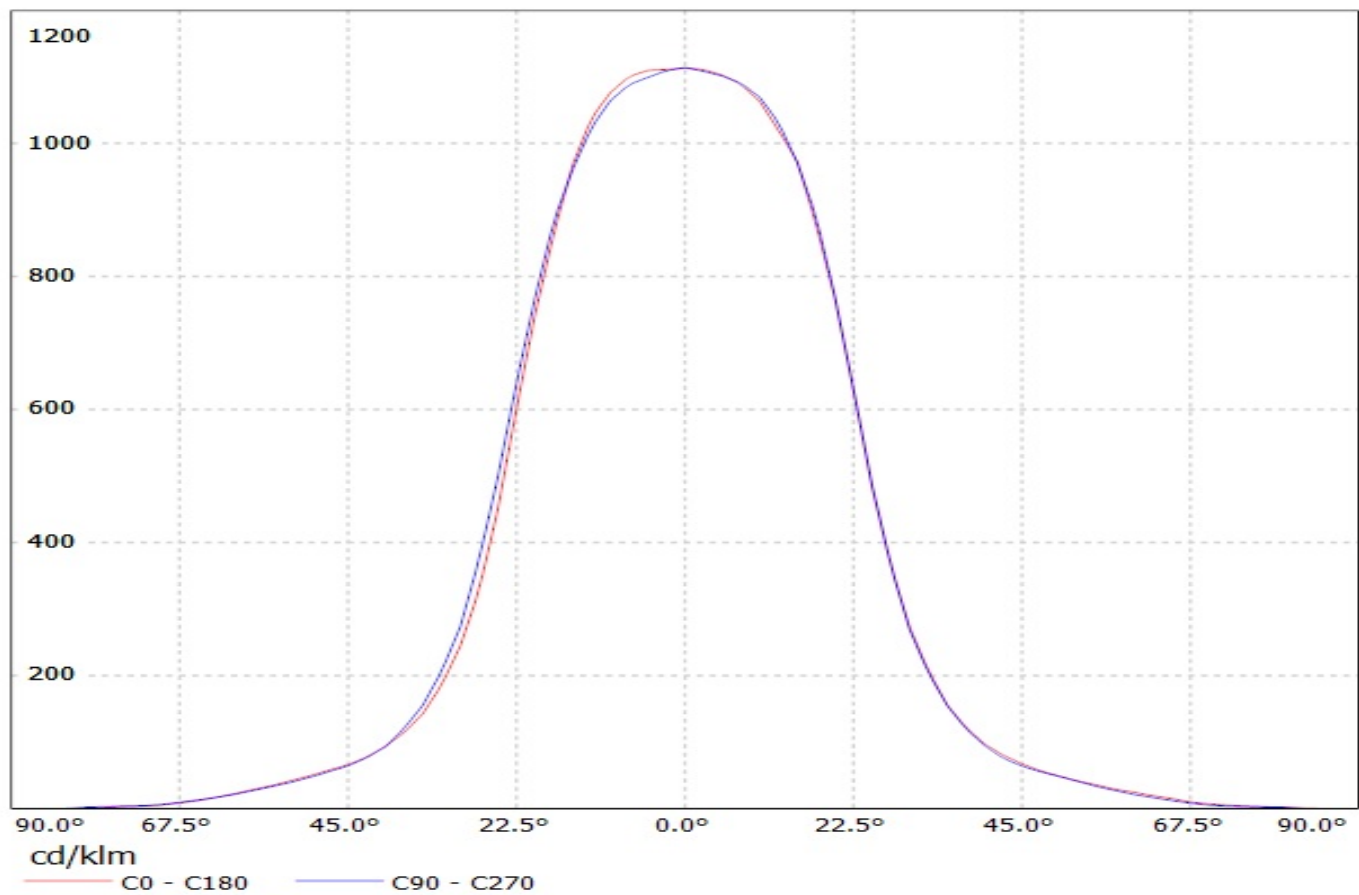
Lamps: 1 x Philips_Lumileds_Luxeon_MZ_(LMZ7-QW57)_(2x2)_427.268lm@250mA_P=2.734W_I=0.2500A



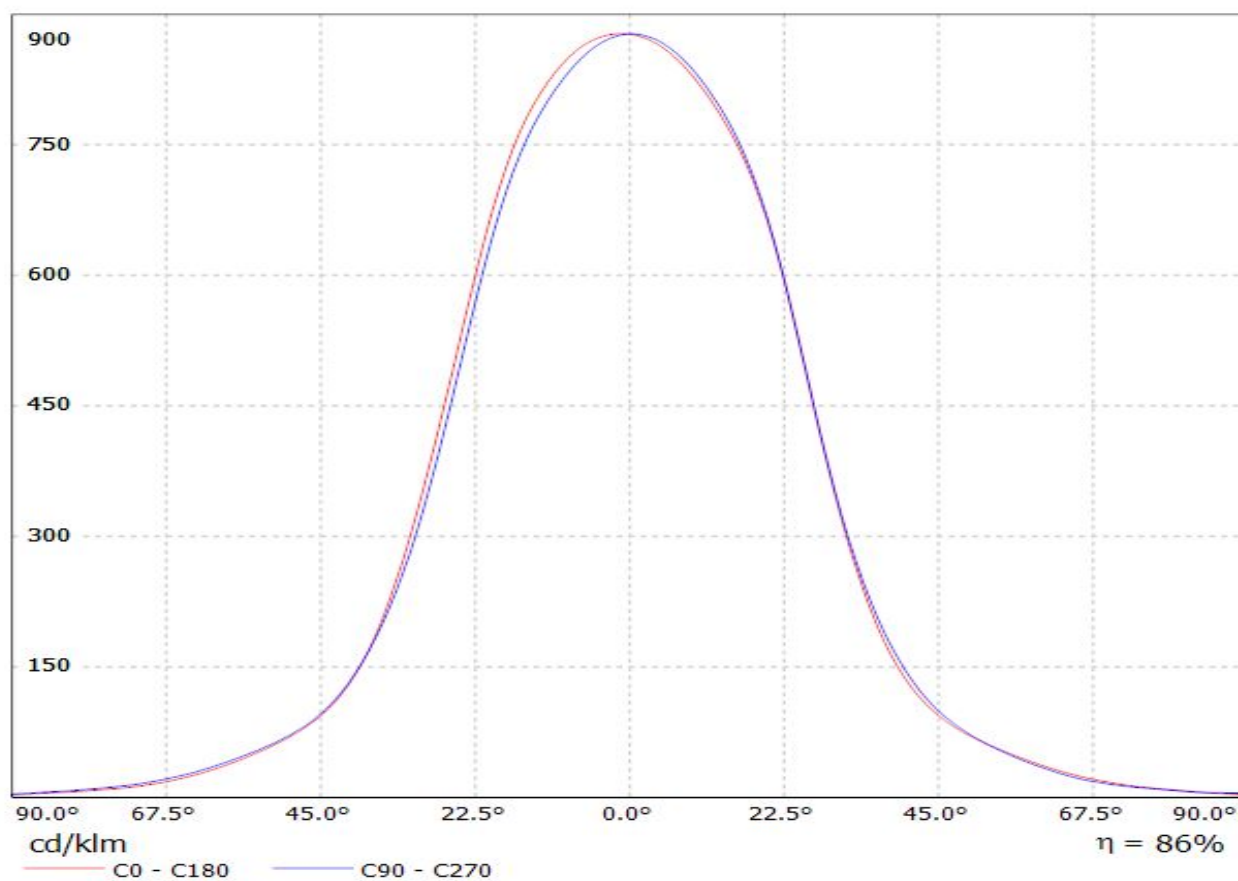
Luminaire: LEDiL Oy C12361_HB-2X2-W_(Luxeon_TX) Eff.87.5%
Lamps: 1 x Luxeon_TX_2x2_320.412lm@250mA_P=2.79013W_I=249.9mA



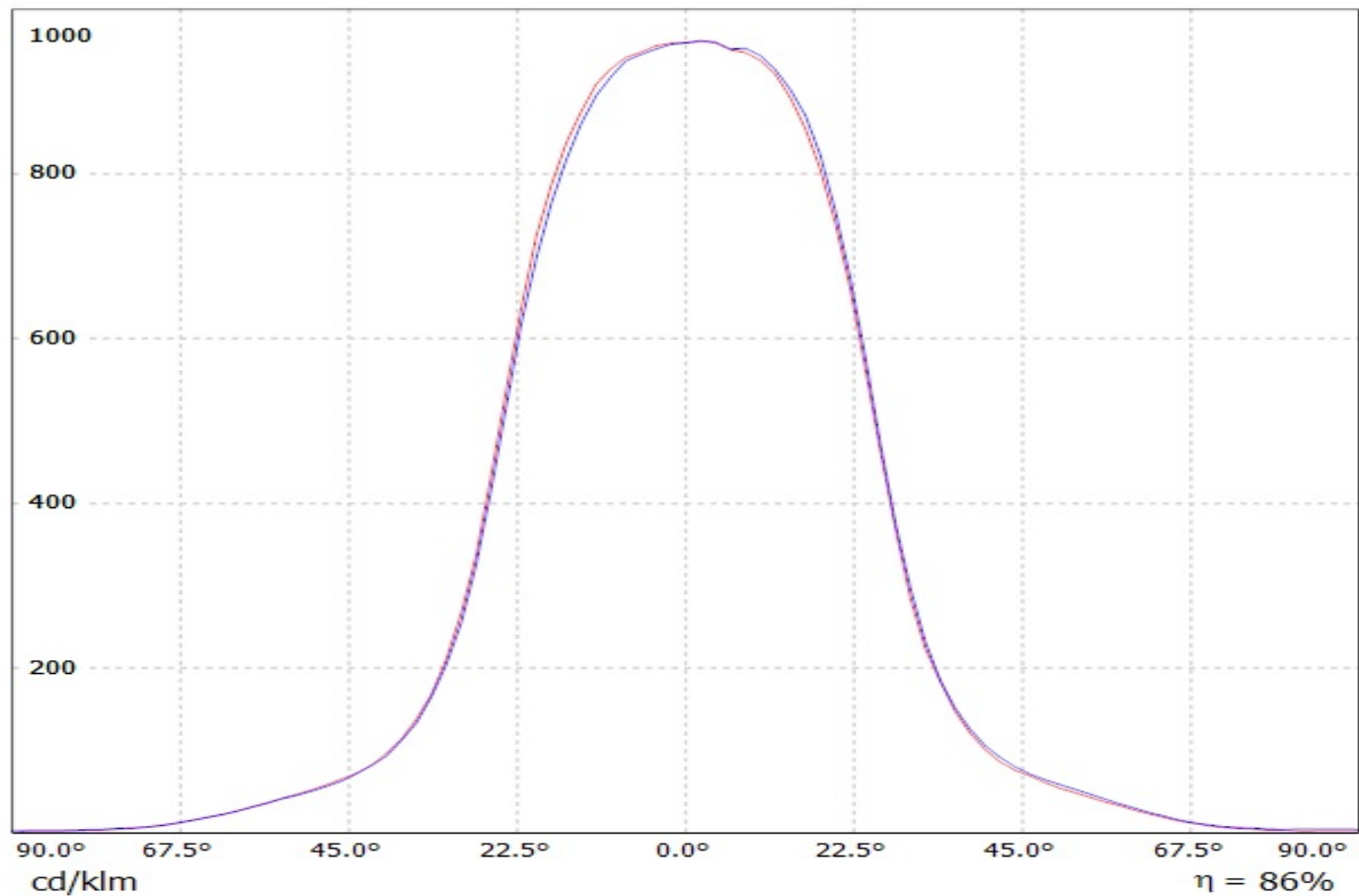
Luminaire: LEDil Oy C12361_HB-2x2-W_(NCSxx19A) Efficiency=85%
Lamps: 1 x Nichia NCSL119AT-H1) 229lm @ 250mA CCT=2800K P=3.1W I=250mA



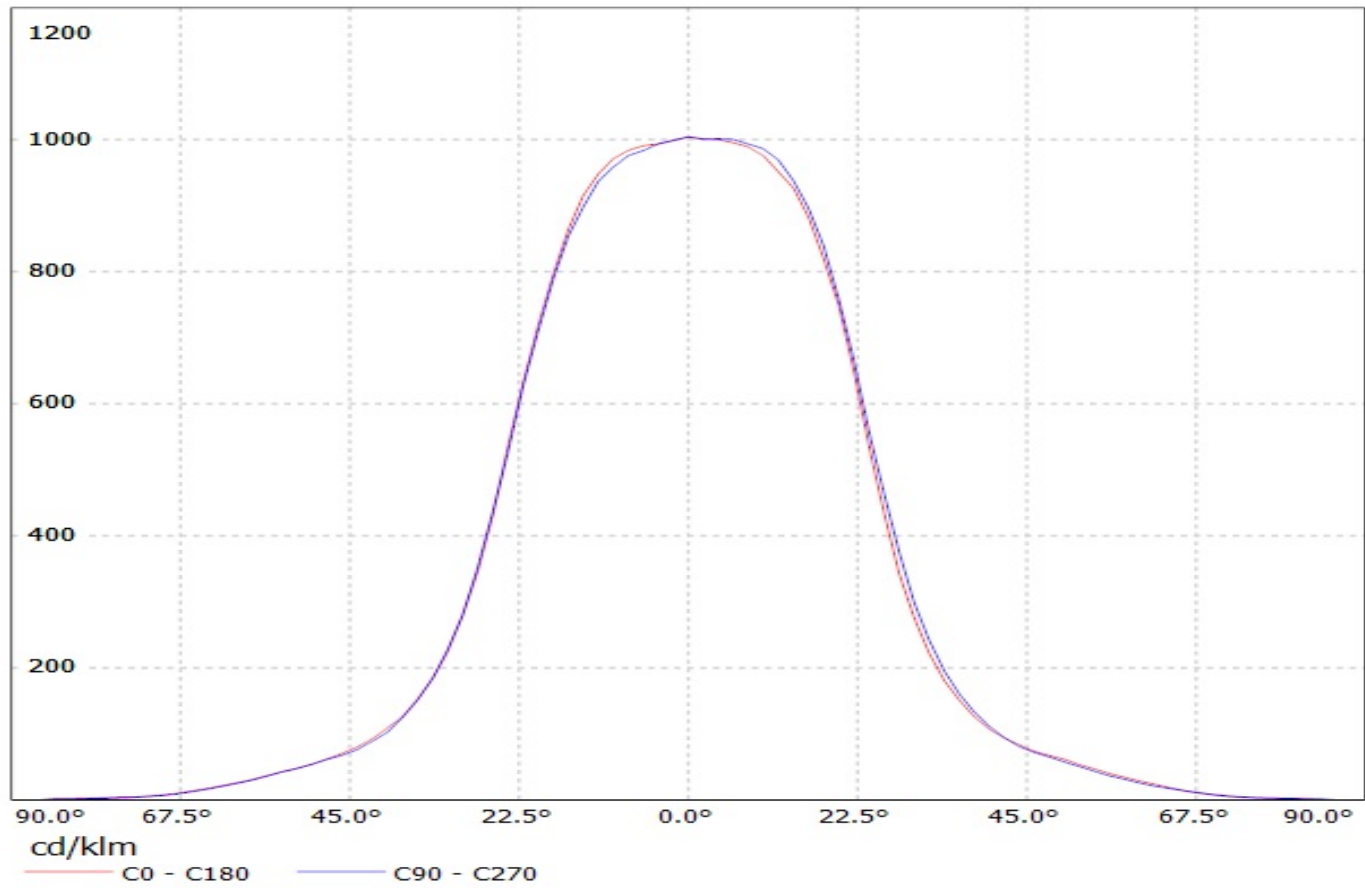
Luminaire: LEDiL Oy C12361_HB-2X2-W_(NS9x383) Eff. 86%
Lamps: 1 x Nichia NS9x383 (288lm@250mA)



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

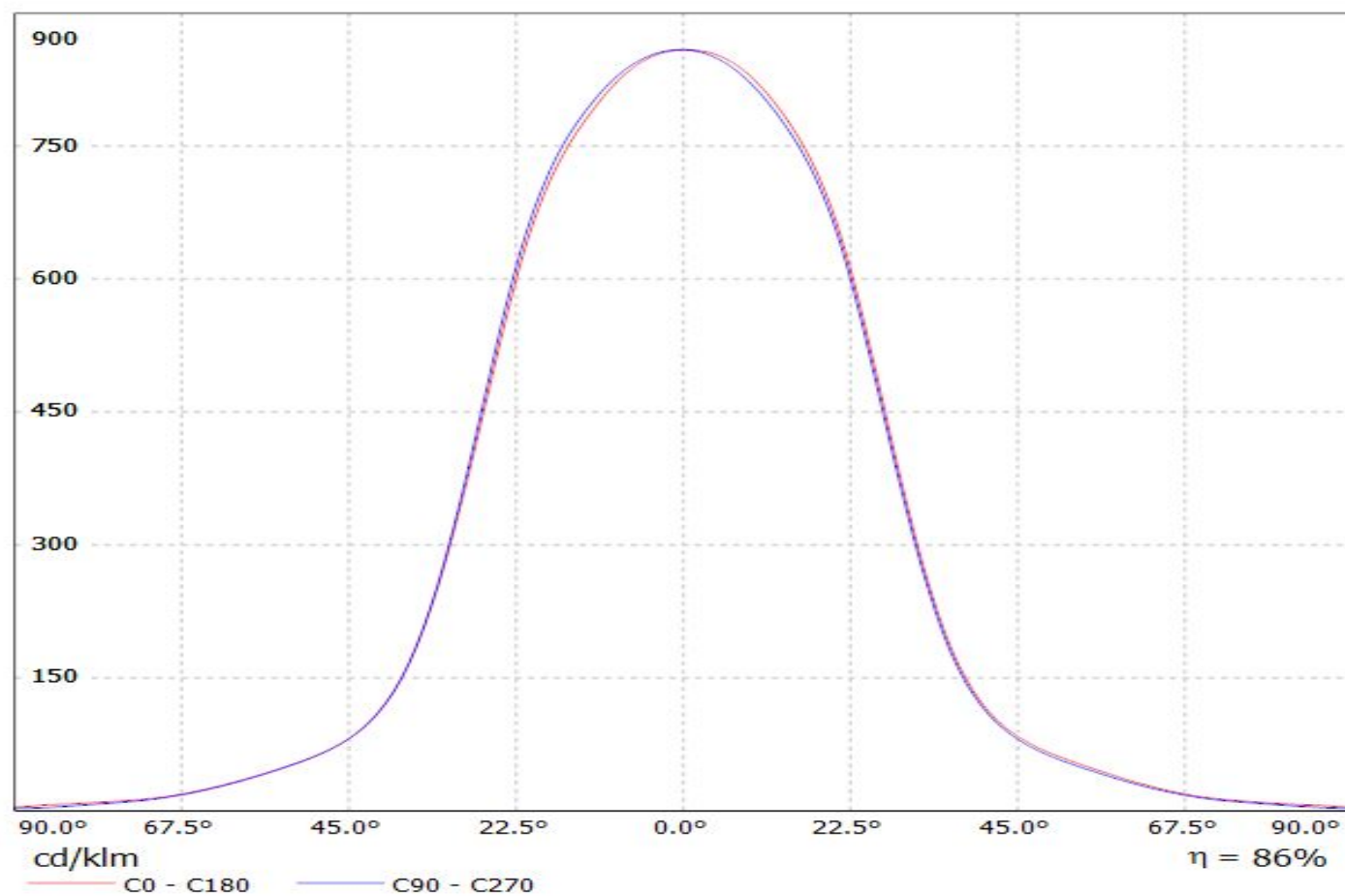


Luminaire: LEDil Oy C12361_HB-2x2-W_(NCSxx19B) Efficiency=85%
Lamps: 1 x Nichia NCSxx19b (NCSW119BE) 425lm @ 250mA CCT=5400K P=3.1W I=250mA

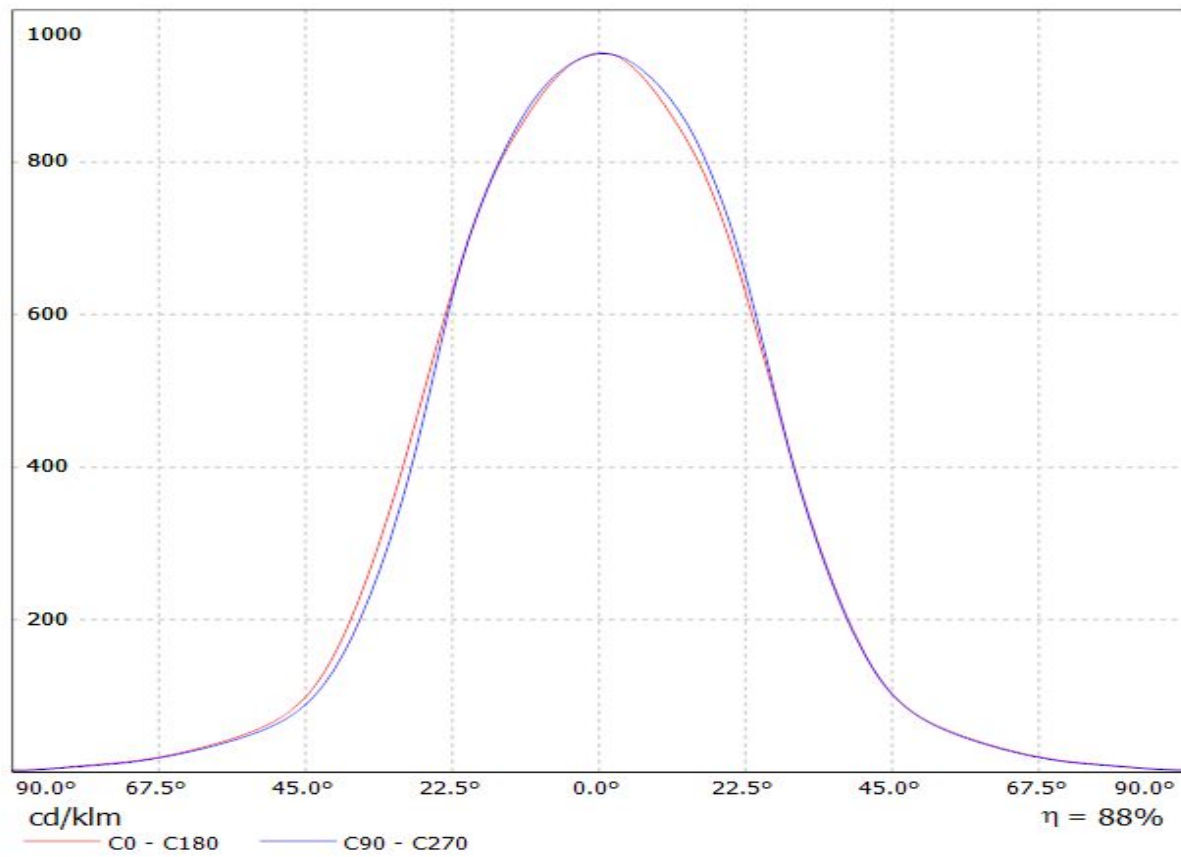


Luminaire: LEDiL Oy C12361_HB-2X2-W_(NWSL229AE)

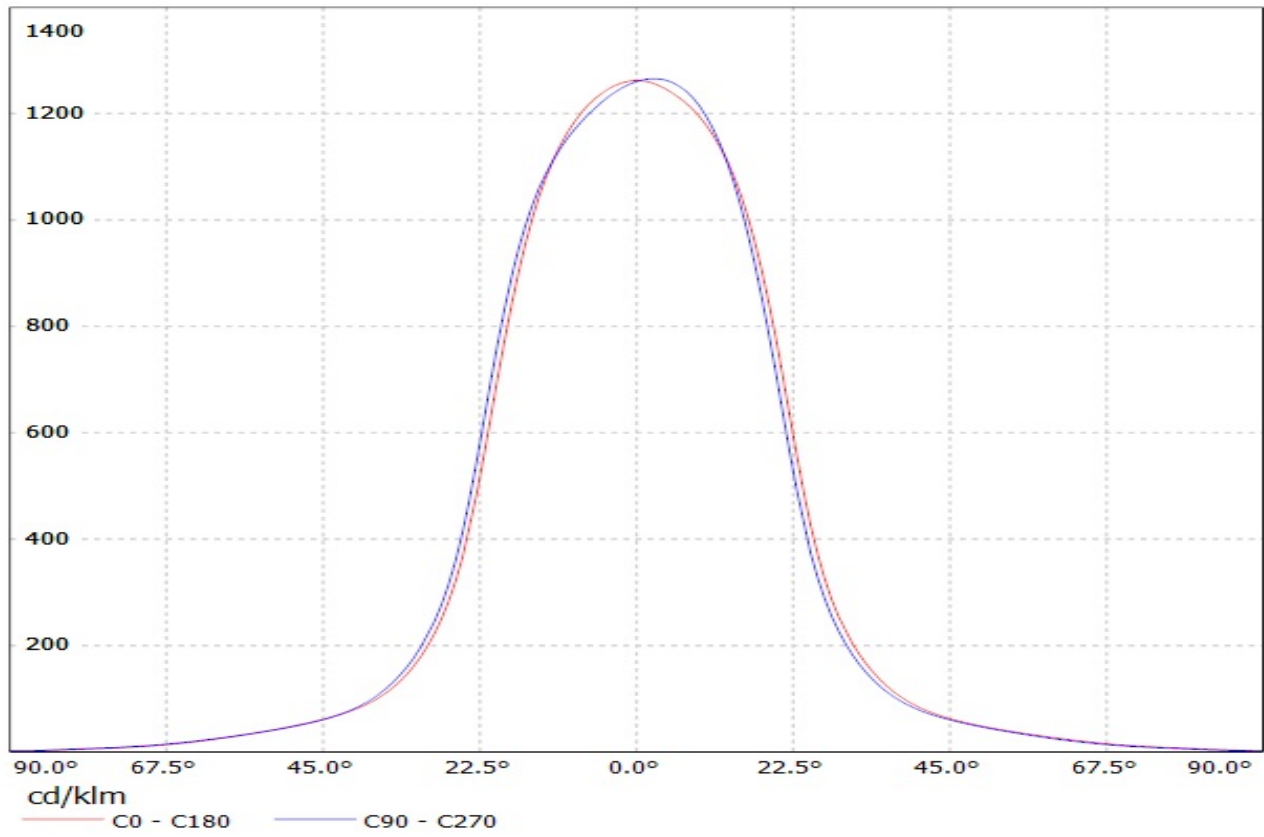
Lamps: 1 x Nichia_2X2_NWSL229AE_476.548lm@250mA_P=2.7515W_I=0.250A



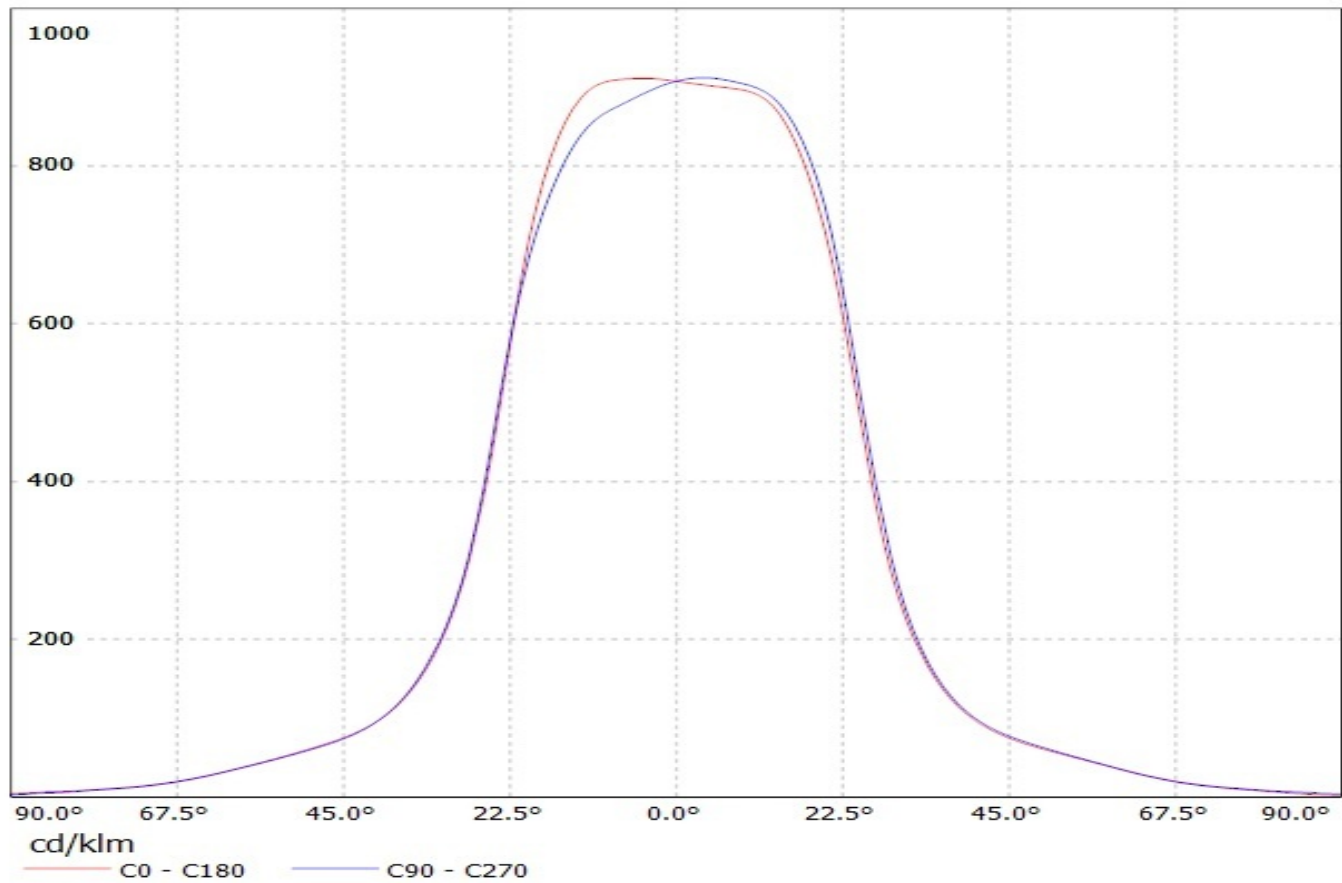
Luminaire: LEDiL Oy C12361_HB-2X2-W_(OLP-5065F6L-06A) Eff.88.5%
Lamps: 1 x OPTOGAN_2x2_(OLP-5065F6L-06A-80-D0500) 423.091lm@250mA CCT=5000K P=2.98506W I=249.9mA



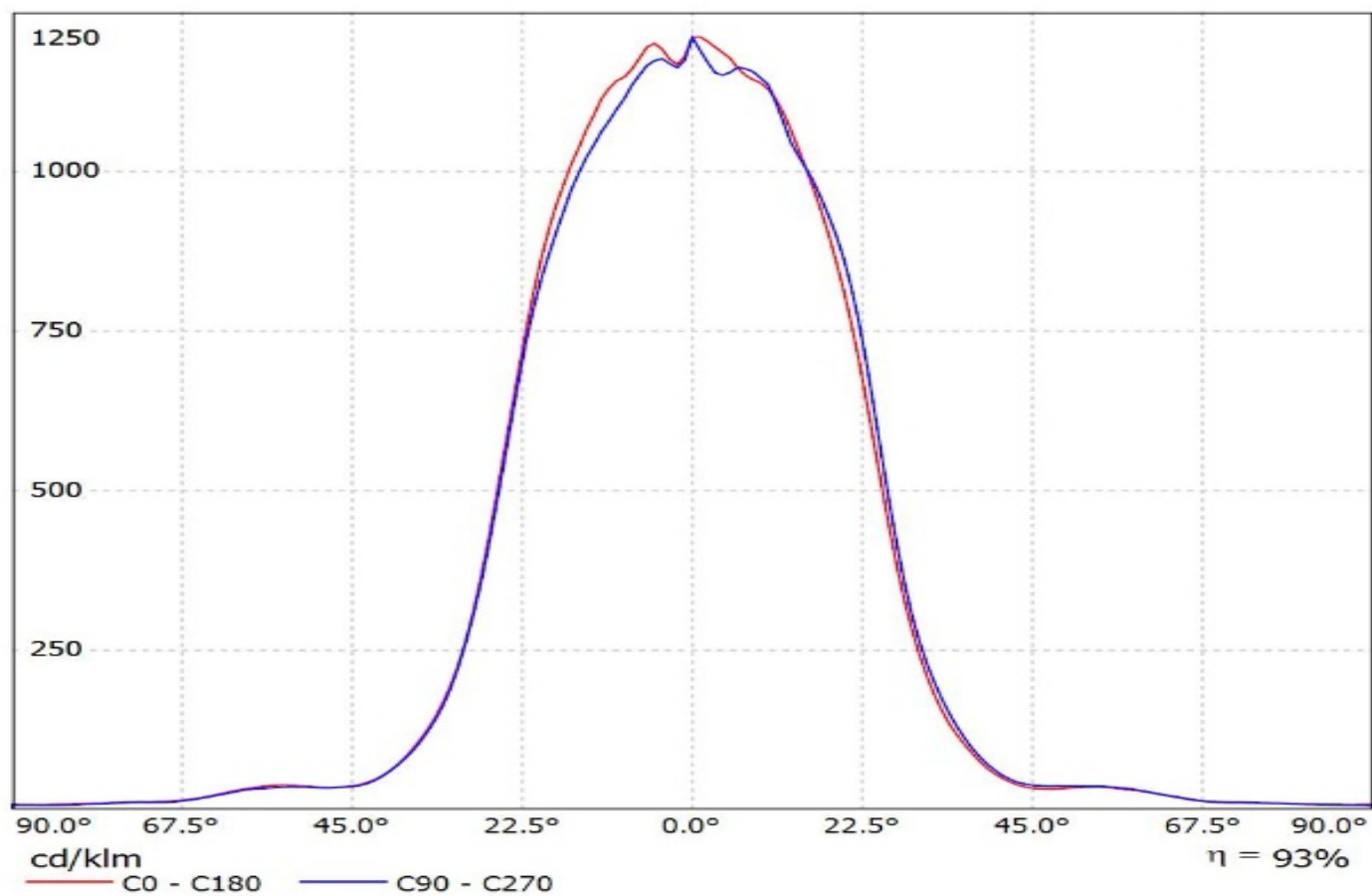
Luminaire: LEDIL OY C12361_HB-2X2 (SSL80) Efficiency=89%
Lamps: 1 x Osram SSL80 (340lm @ 250mA)



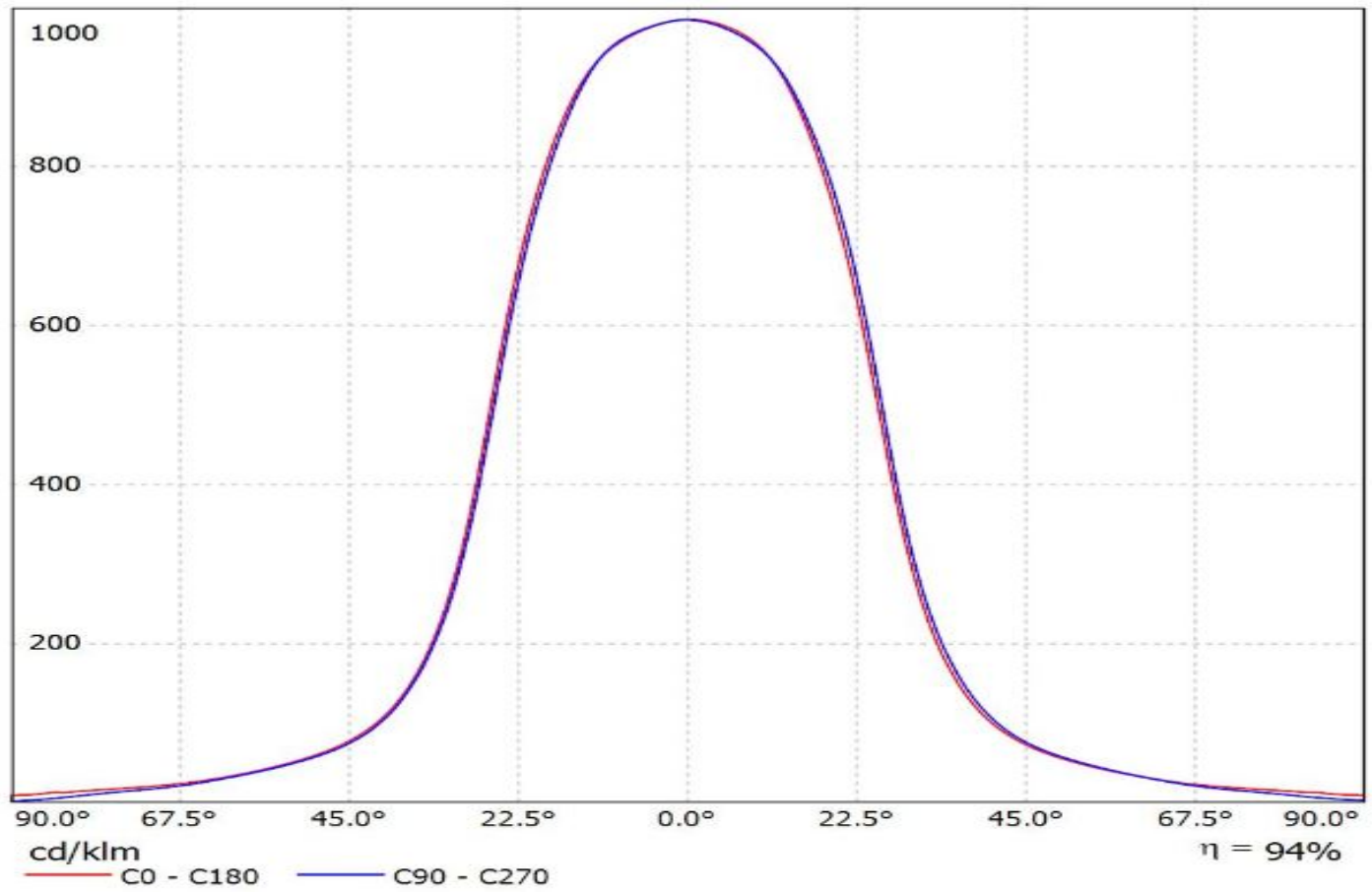
Luminaire: LEDIL OY C12361_HB-2X2_(SQ_PC) Efficiency=87%
Lamps: 1 x OSLO SQUARE PC (400.6lm)



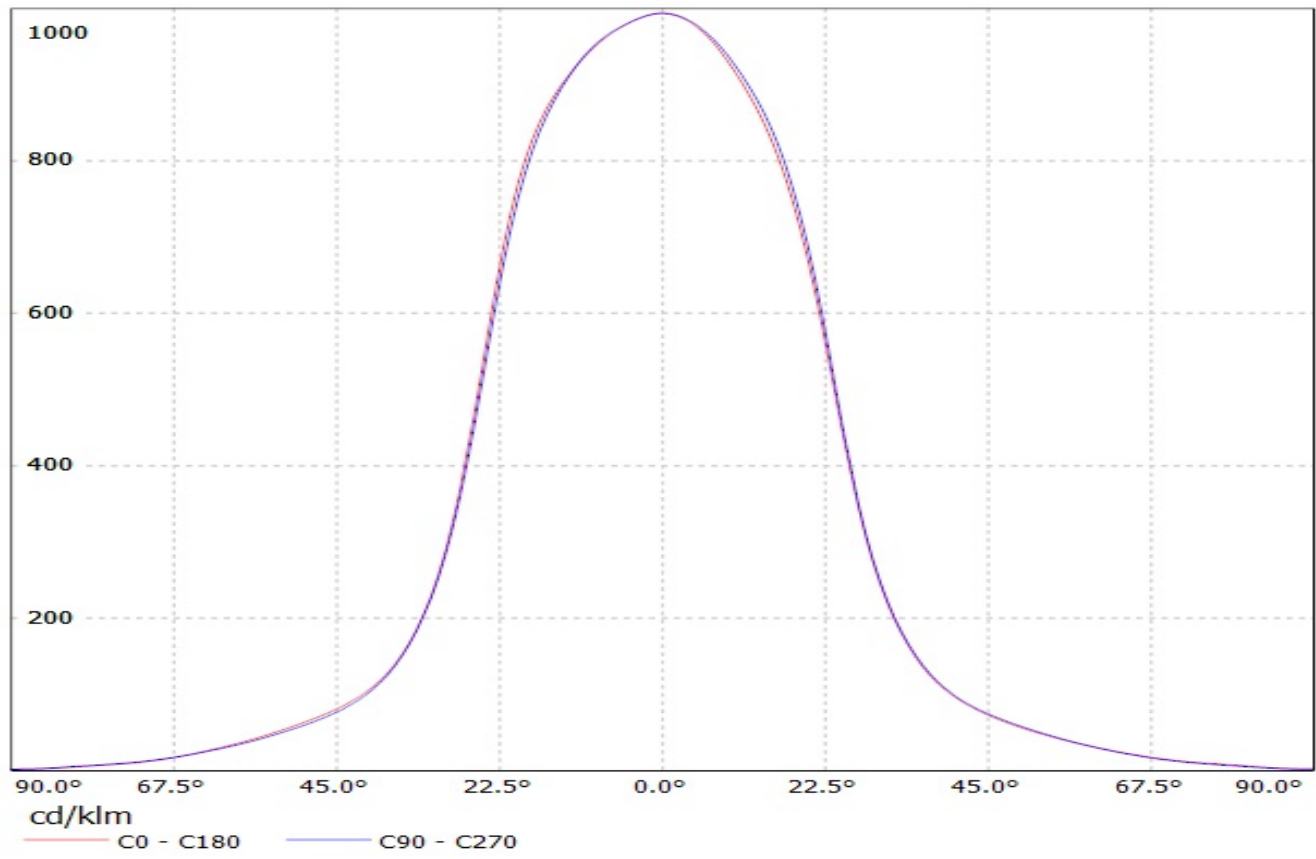
Luminaire: Ledil Oy C12361_HB-2X2-W_(Duris_P8)_SIMULATED
Lamps: 1 x Osram Duris P8



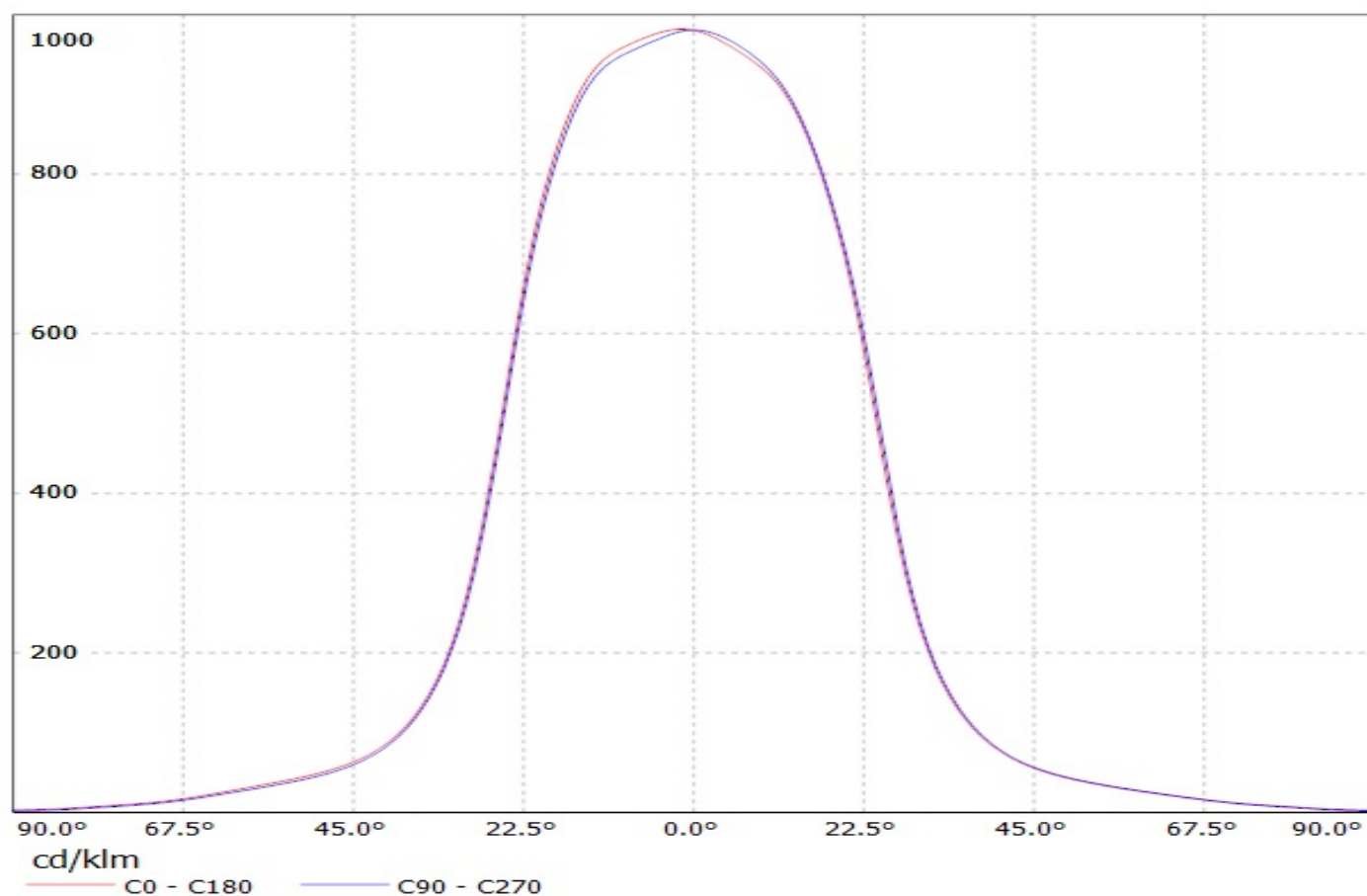
Luminaire: Ledil C12361_HB-2X2-W_(Fortimo_FastFlex_LED_board_2x8/740_DA_G3)
Lamps: 1 x Fortimo_FastFlex_LED_board_2x8/740_DA_G3_1828.23lm@250mA_P=11.667W_I=0.25A



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

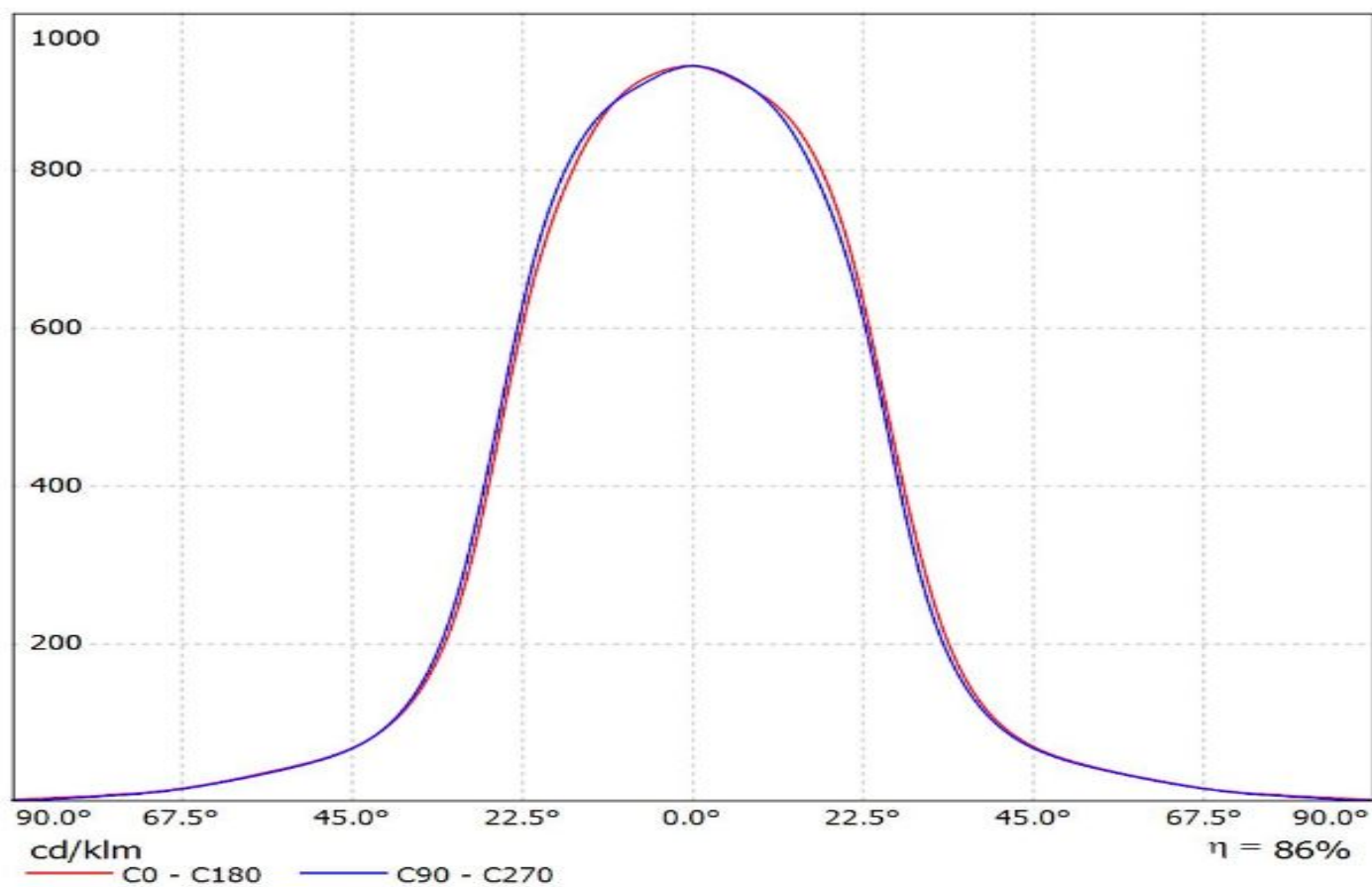


Luminaire: LEDiL Oy C12361_HB-2X2-W_(LH351Z) Eff.87.4%
Lamps: 1 x SAMSUNG_LH351Z_2x2_359.49lm@250mA_P=2.86371W_I=249.8mA

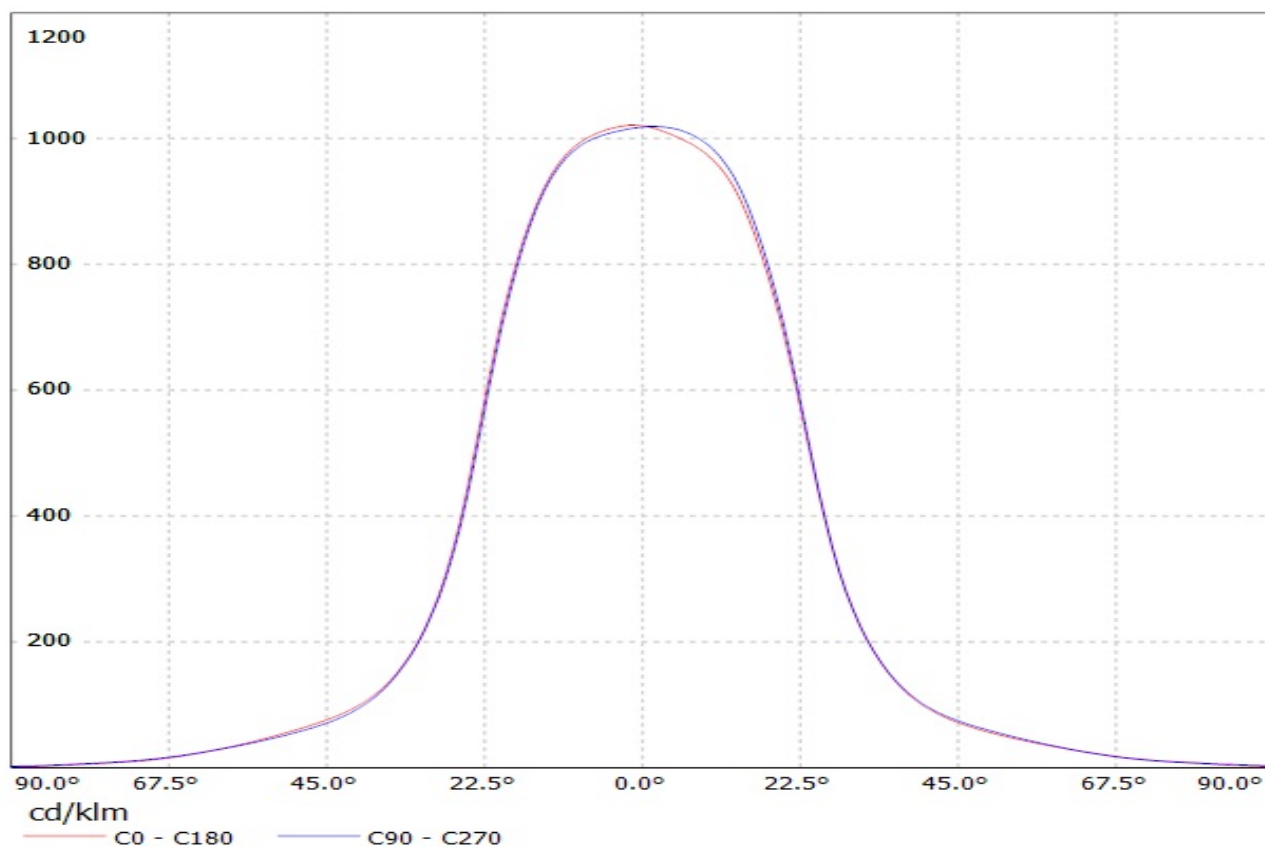


Luminaire: Ledil C12361_HB-2X2-W_(LH351B)

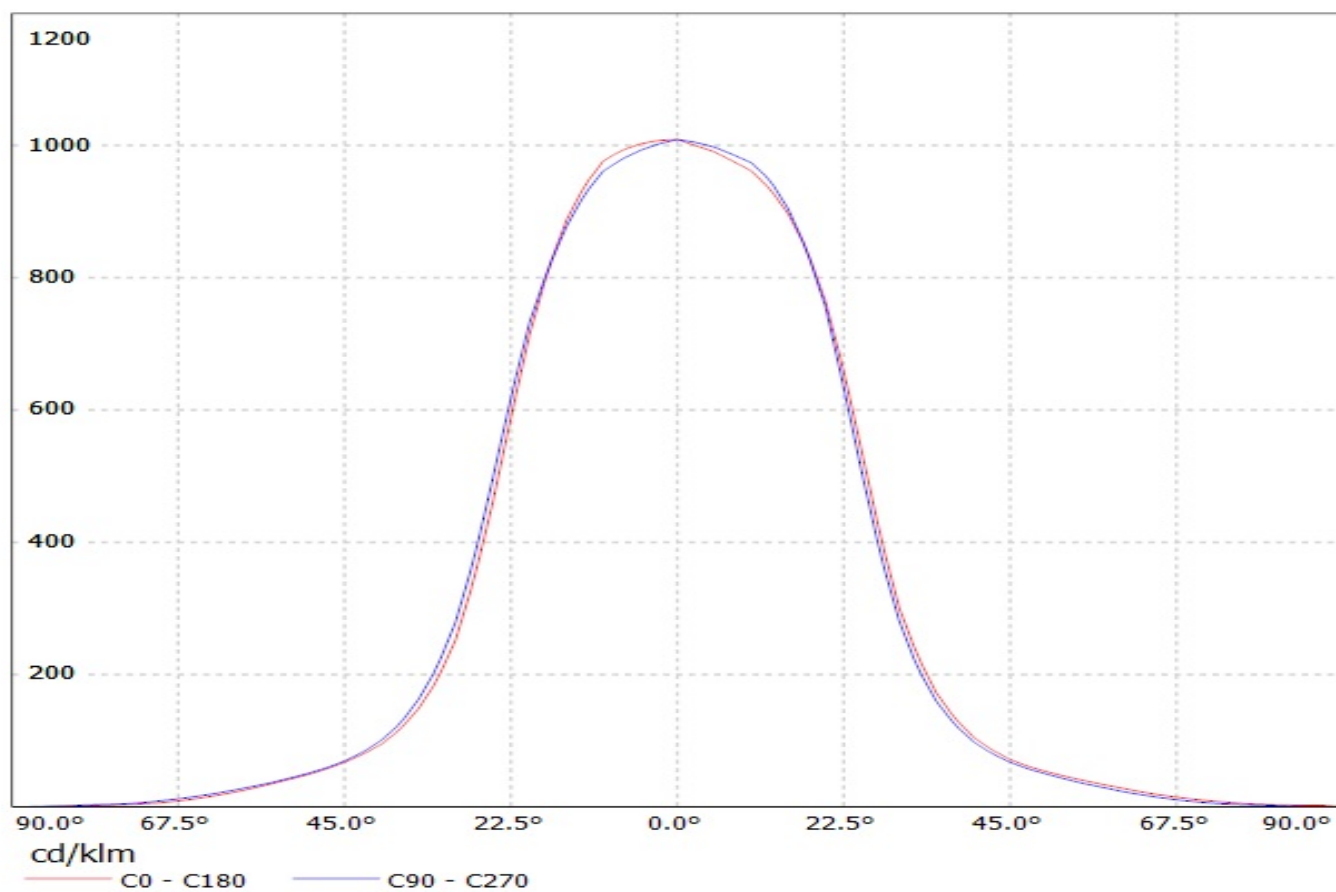
Lamps: 1 x Samsung_LH351B_2x2_444.178lm@250mA_P=2.8535W_I=0.25A



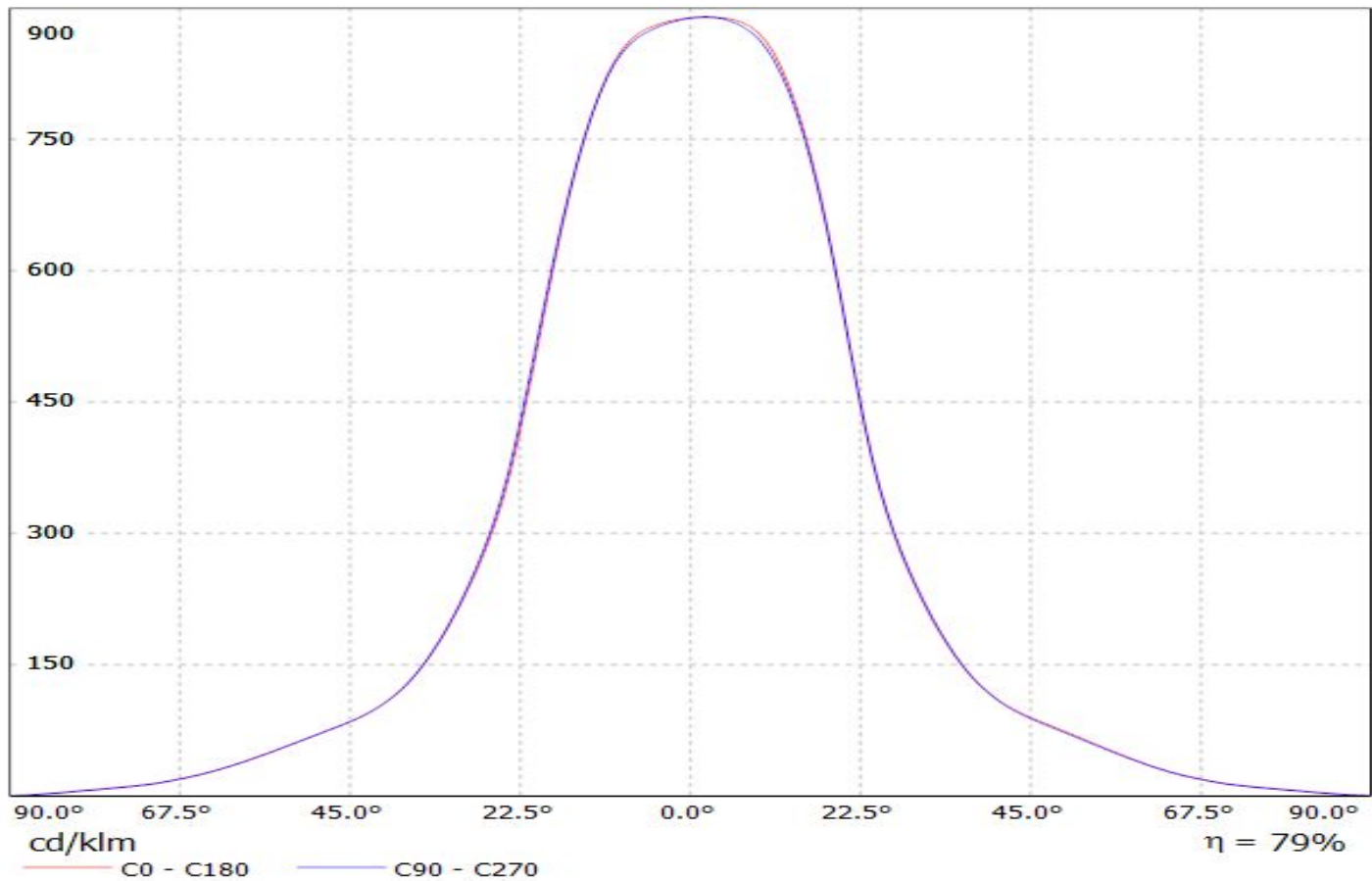
Luminaire: LEDIL OY C12361_HB-2X2 (Z5) Efficiency=88%
Lamps: 1 x Seoul Z5 (290lm @ 250mA)



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

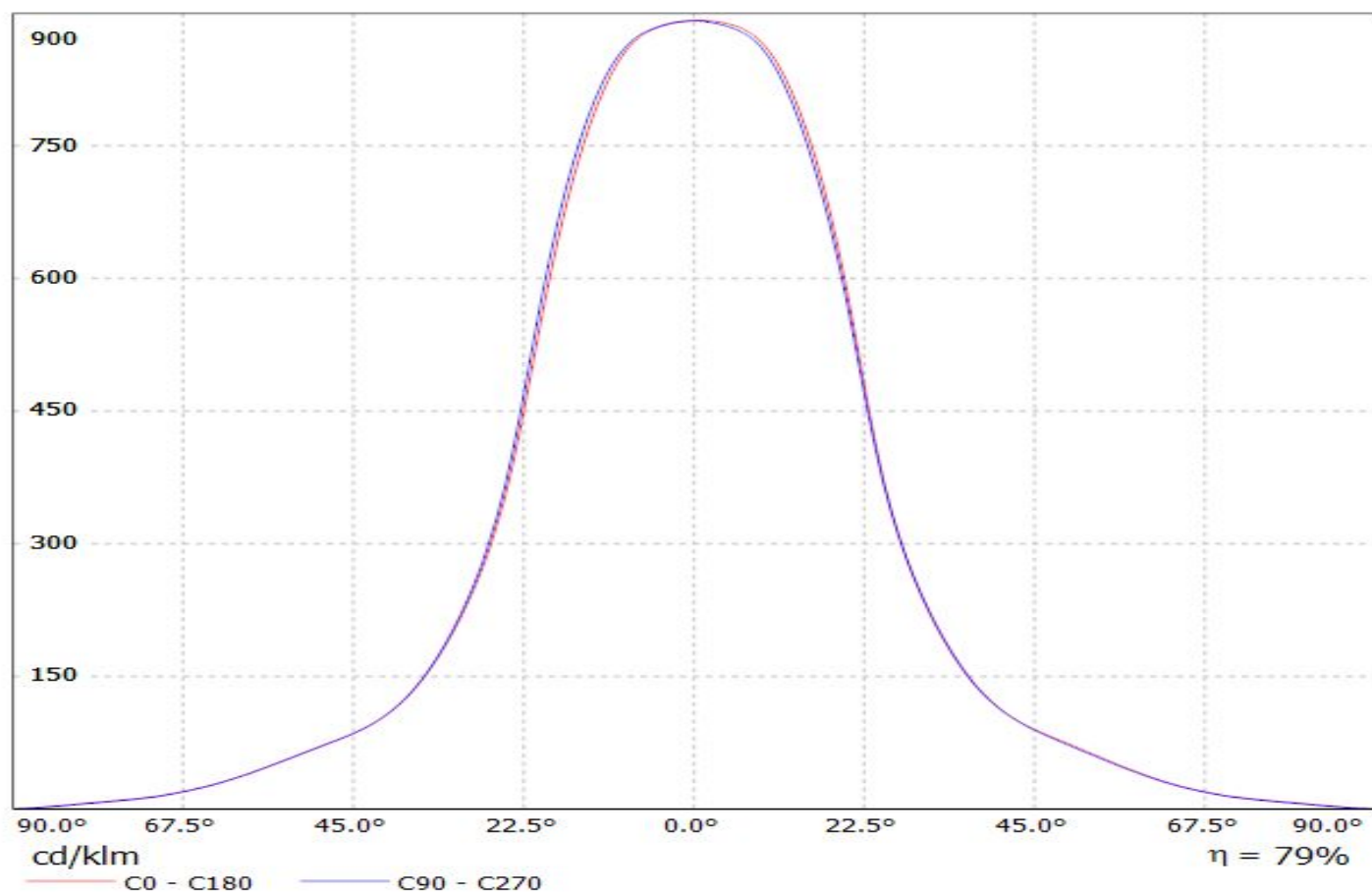


Luminaire: LEDiL Oy C12361_HB-2X2-W_(WICOP2_Z8Y15)
Lamps: 1 x SEOUL_WICOP2_Z8Y15_336.842lm@250mA_P=2.9399W_I=0.250A

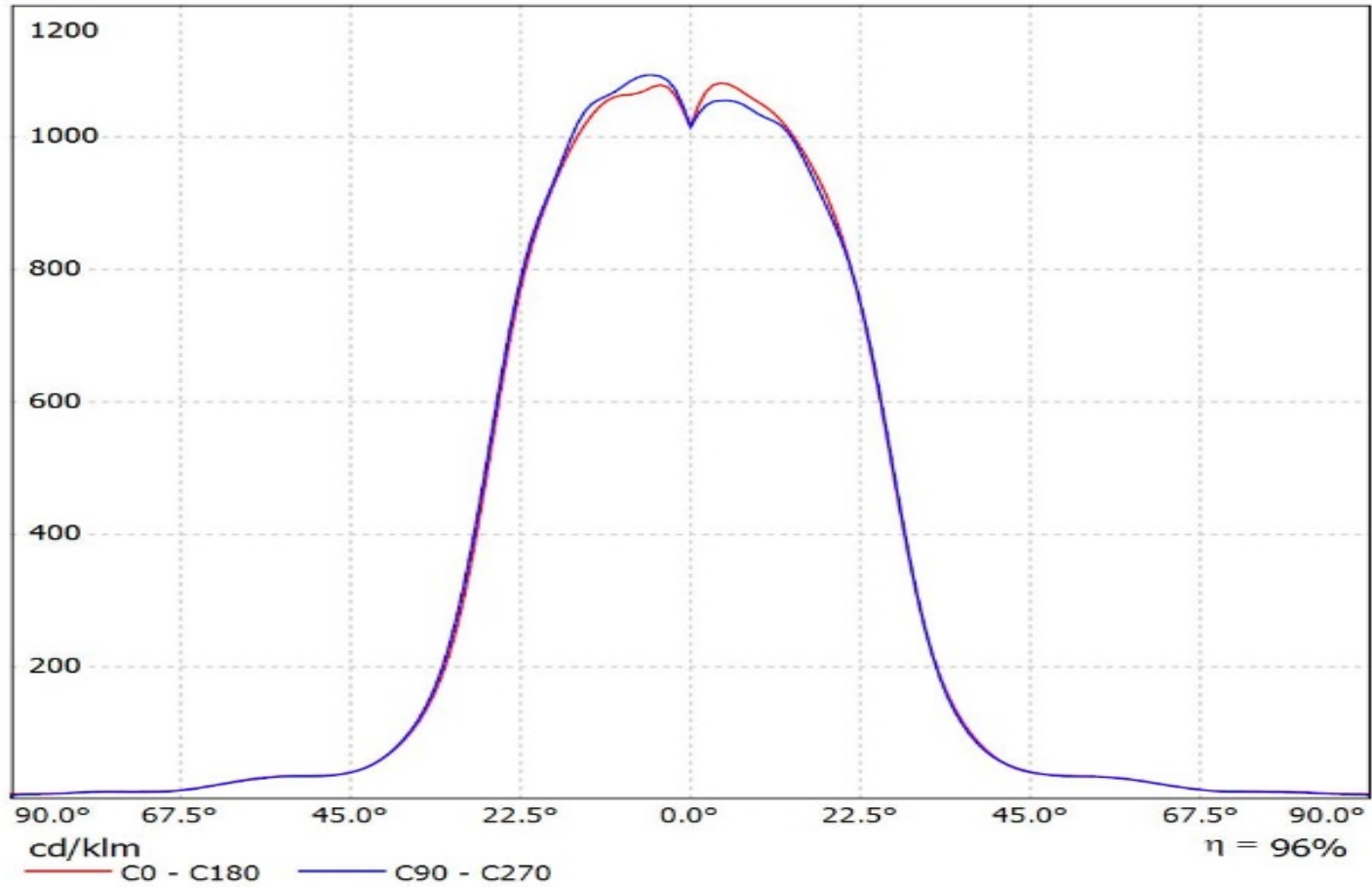


Luminaire: LEDiL Oy C12361_HB-2X2-W_(WICOP2_Z8Y19)

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



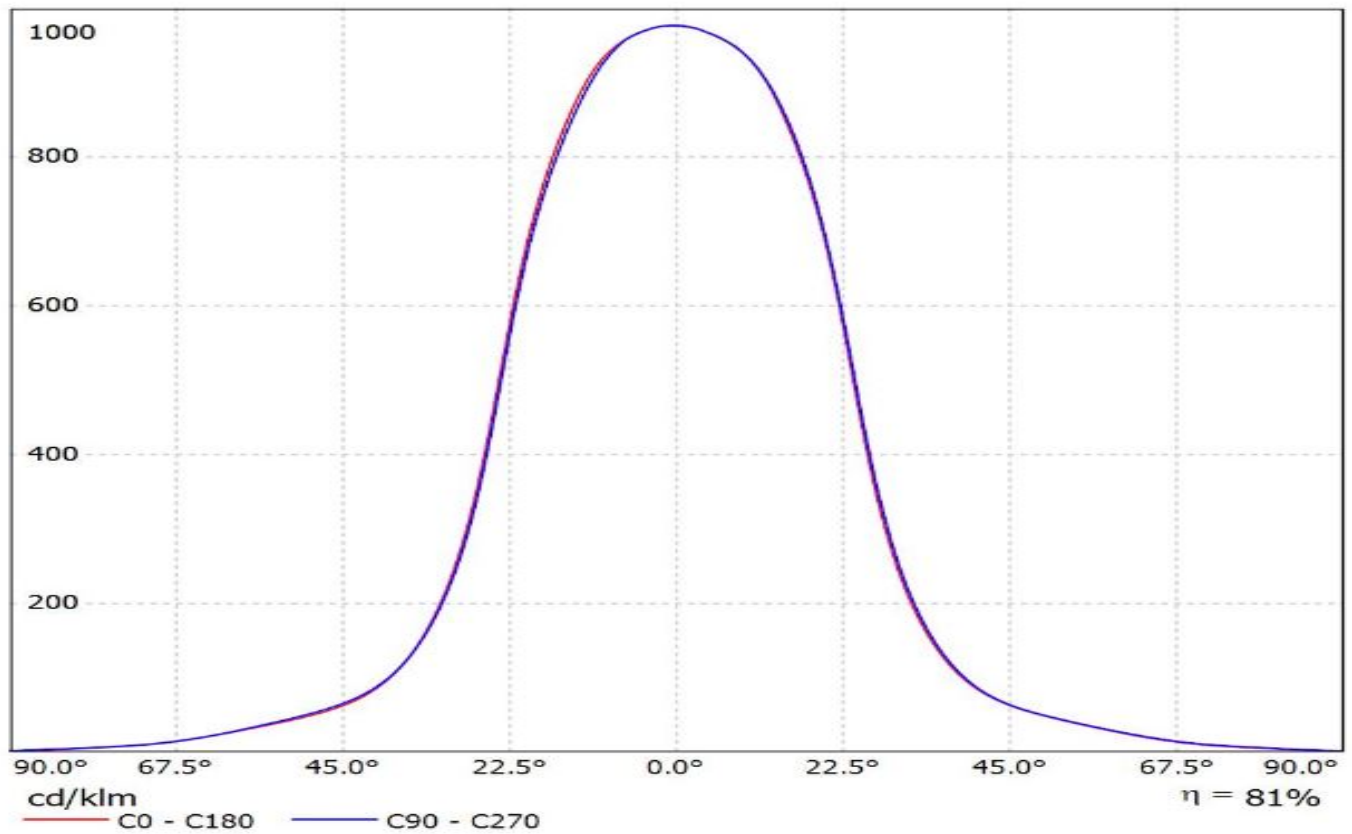
Luminaire: Ledil Oy C12361_HB-2X2-W_(Z5M2)_SIMULATED
Lamps: 1 x Seoul Z5M2 (SZ5-M2-W0-00)



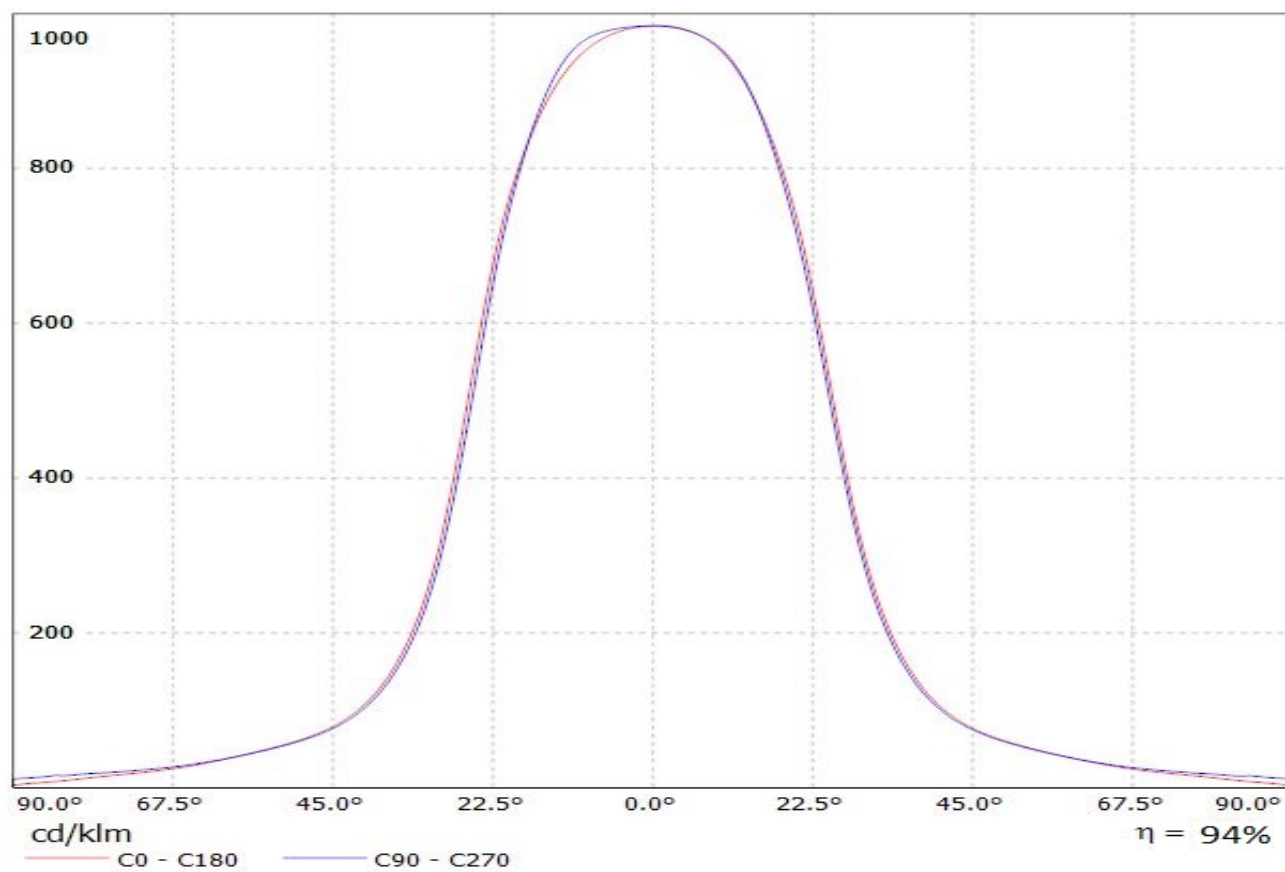
Ledil C12361_HB-2X2-W_(TL1L4) / LDC (Linear)

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

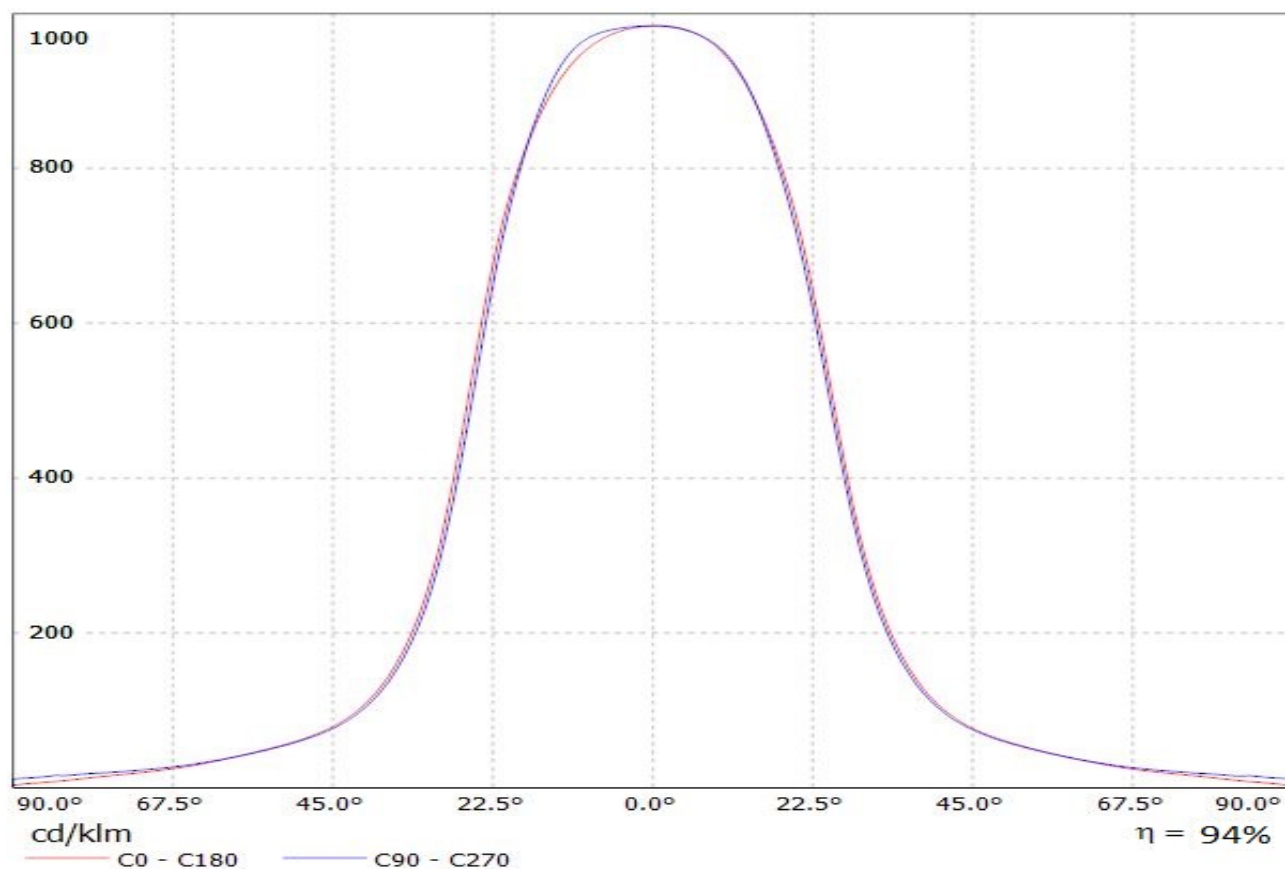
Lamps: 1 x Toshiba_TL1L4_2x2_(TL1L4-DW0)_472.639lm@250mA_CCT=6500K_P=2.9W_I=0.25A



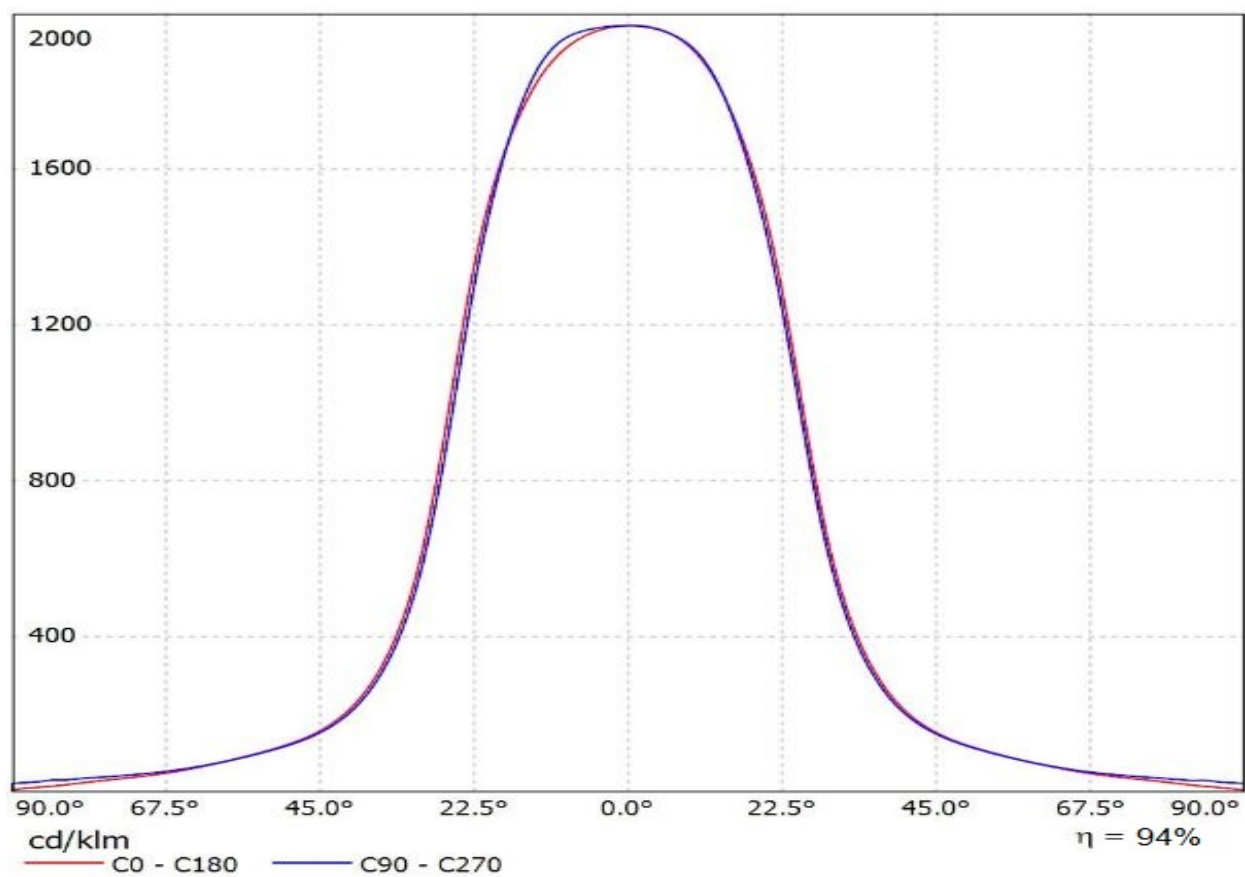
Luminaire: LEDiL Oy C12361_HB-2X2-W_(Tridonic_Module_RLE_G1)
Lamps: 1 x Tridonic_Module_RLE_G1_4576.03lm@700mA_P=32.0681W_I=0.700A



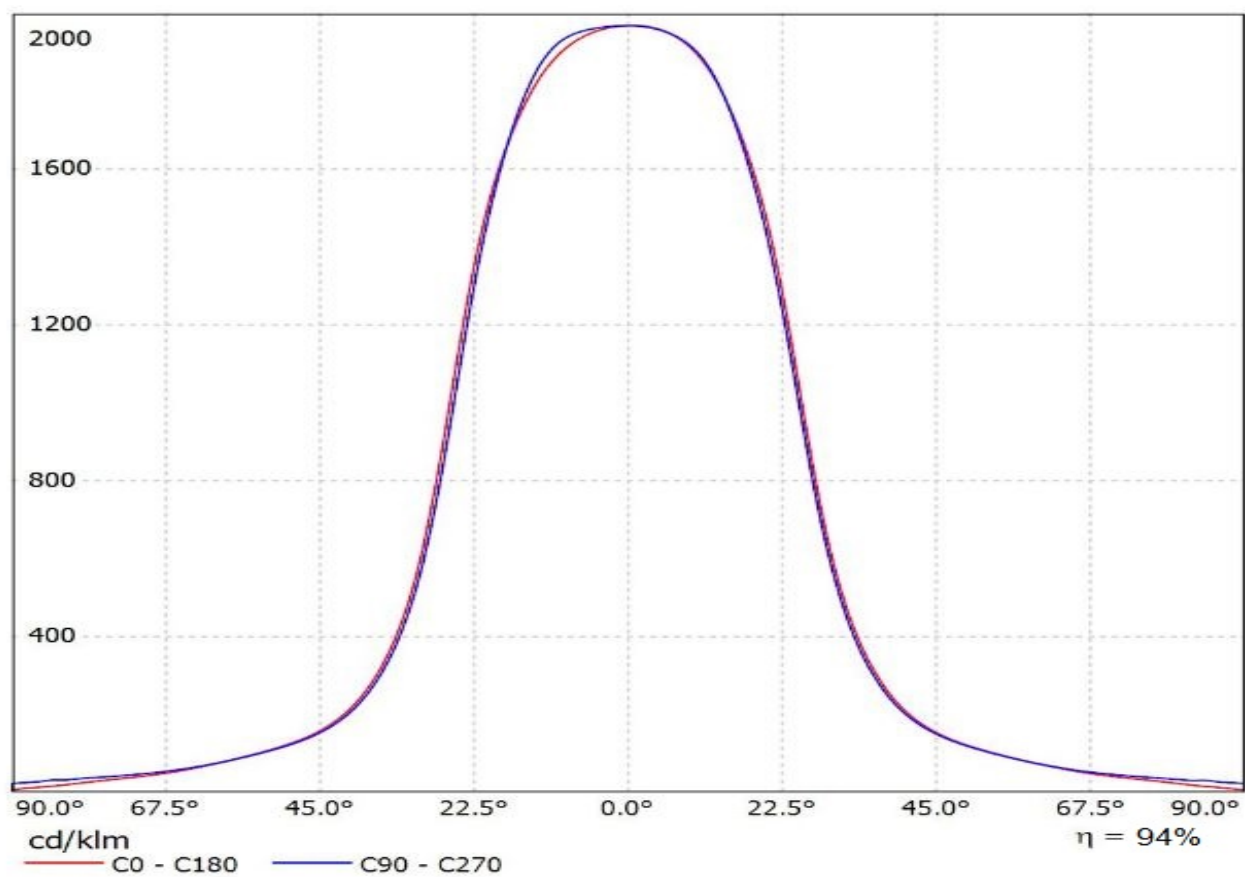
Luminaire: LEDiL Oy C12361_HB-2X2-W_(Tridonic_Module_RLE_G1)
Lamps: 1 x Tridonic_Module_RLE_G1_4576.03lm@700mA_P=32.0681W_I=0.700A



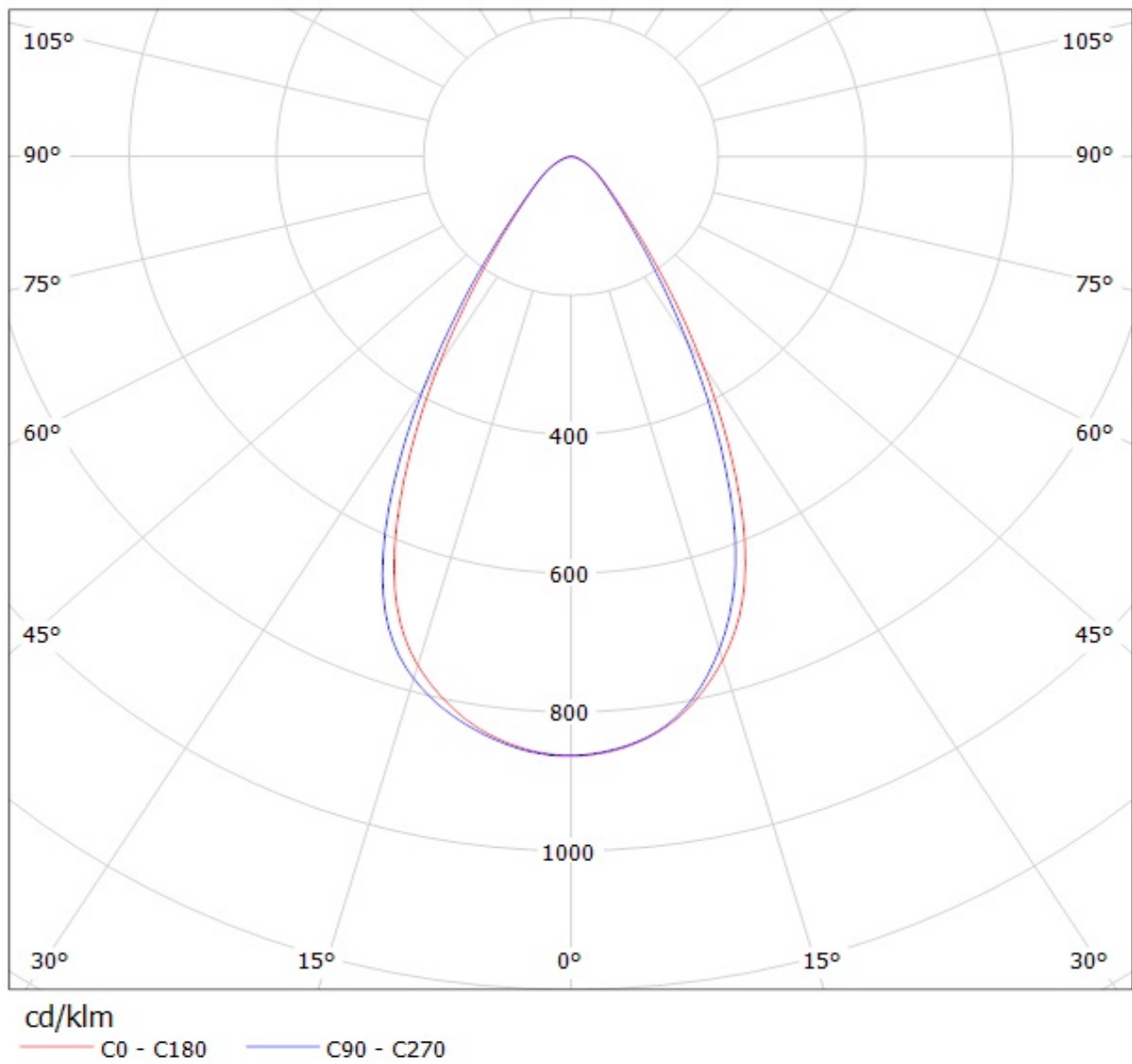
Luminaire: LEDiL Oy C12361_HB-2X2-W_(Tridonic_Module_RLE_G1)
Lamps: 1 x Tridonic_Module_RLE_G1_2288lm@700mA_P=16W_I=0.700A



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

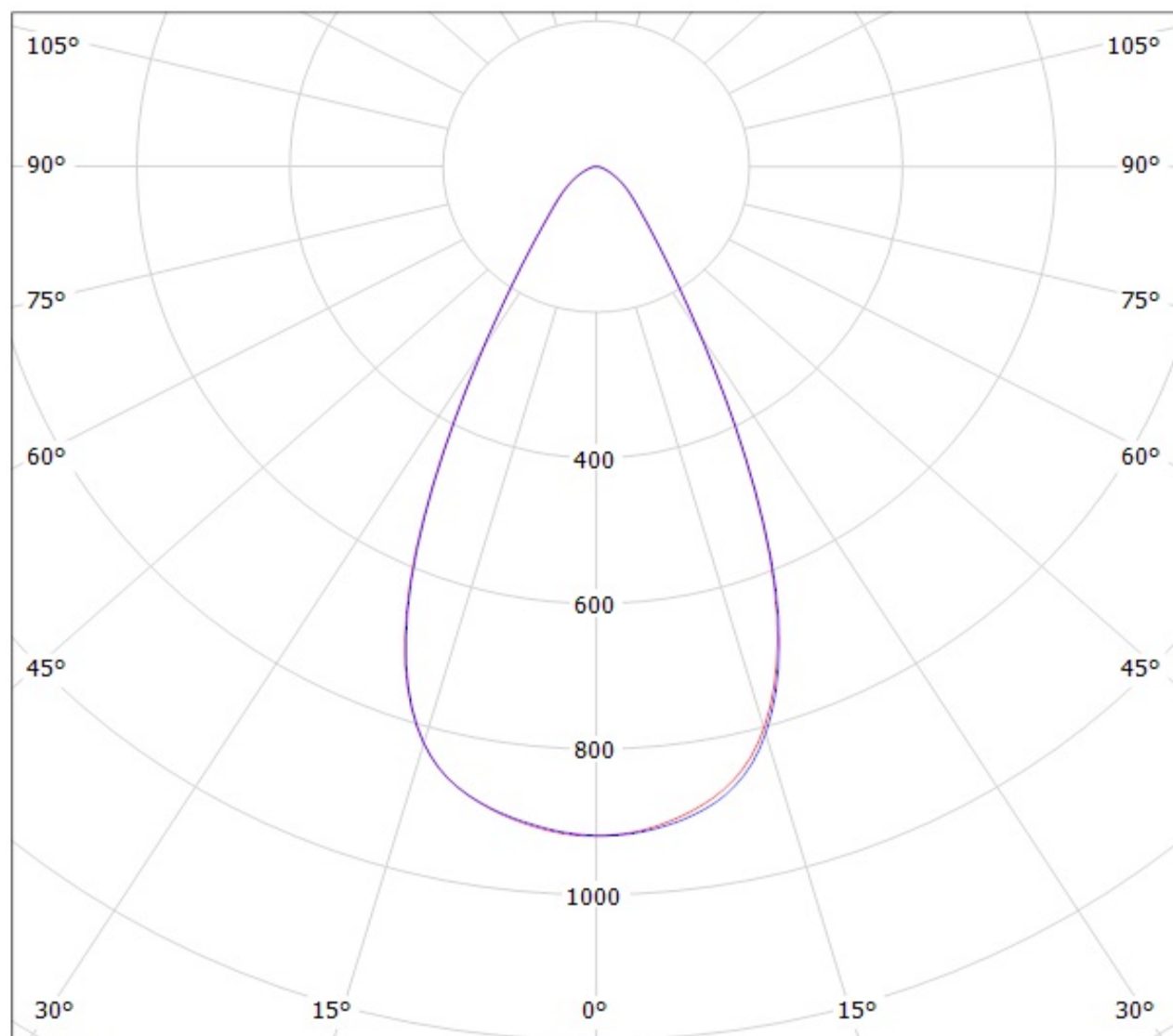


Luminaire: LEDIL OY C12361_HB-2X2 (XM-L) Efficiency=89%
Lamps: 1 x Cree XM-L (395lm @ 250mA)



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

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

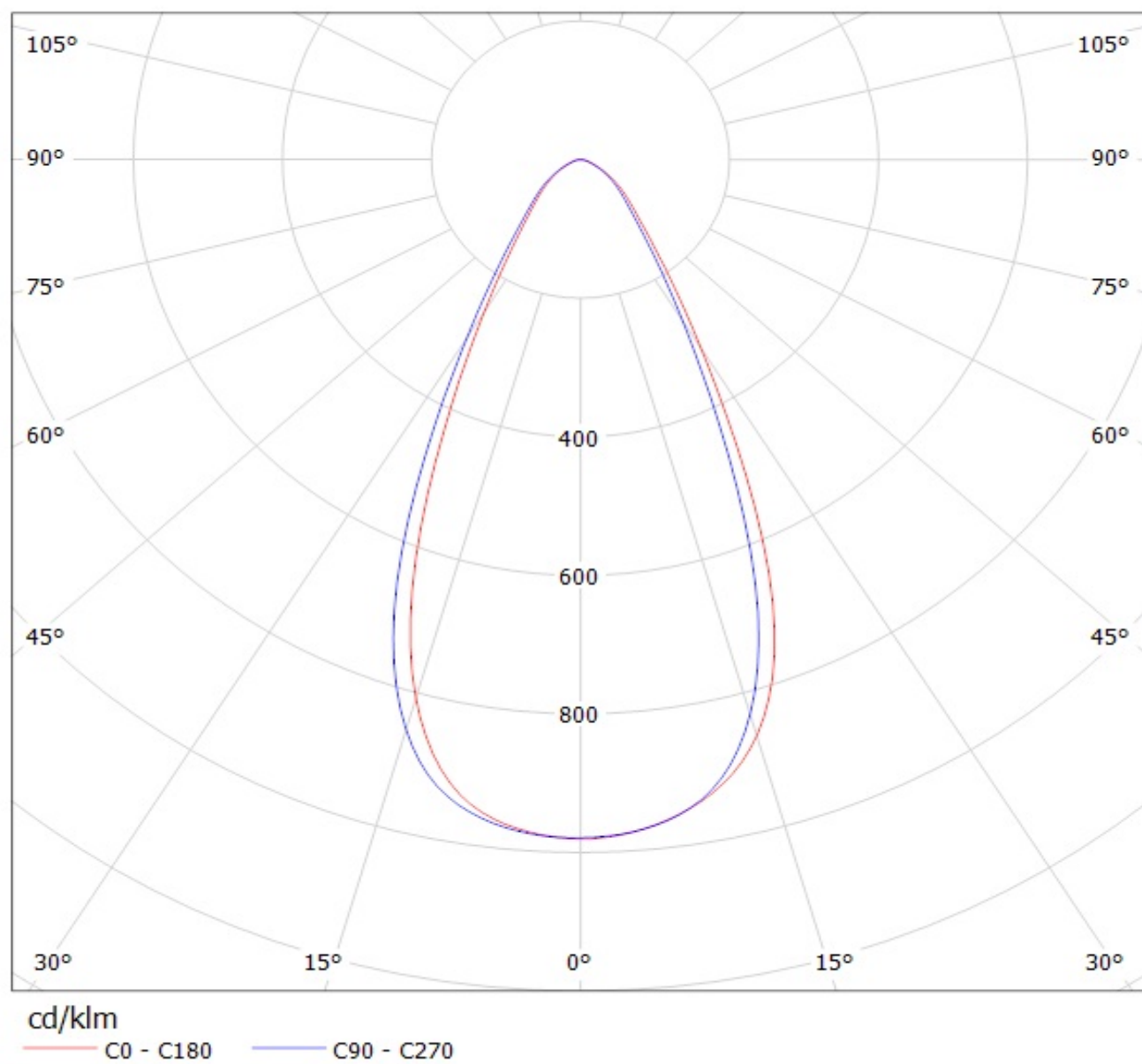


cd/klm

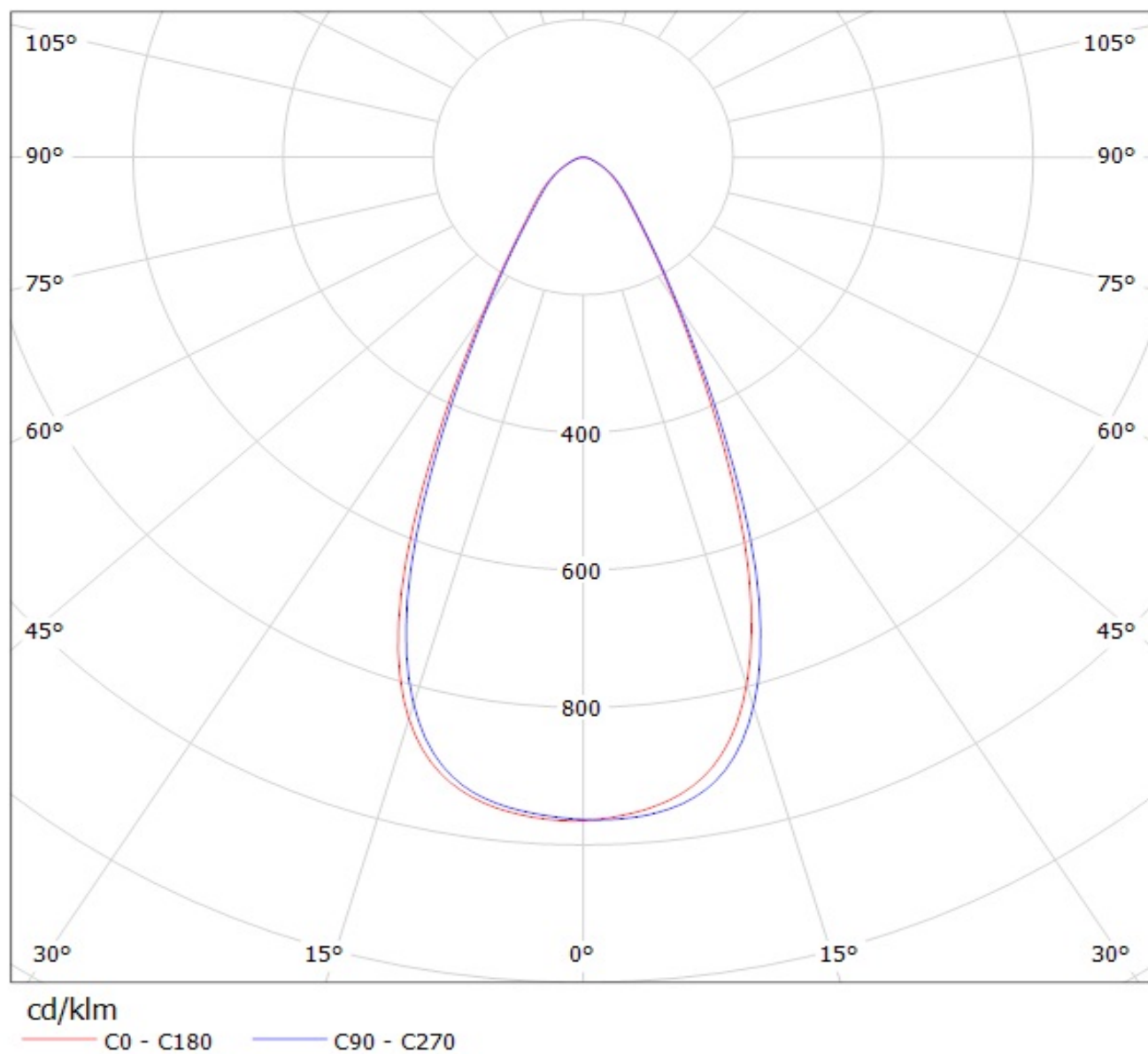
— C0 - C180

— C90 - C270

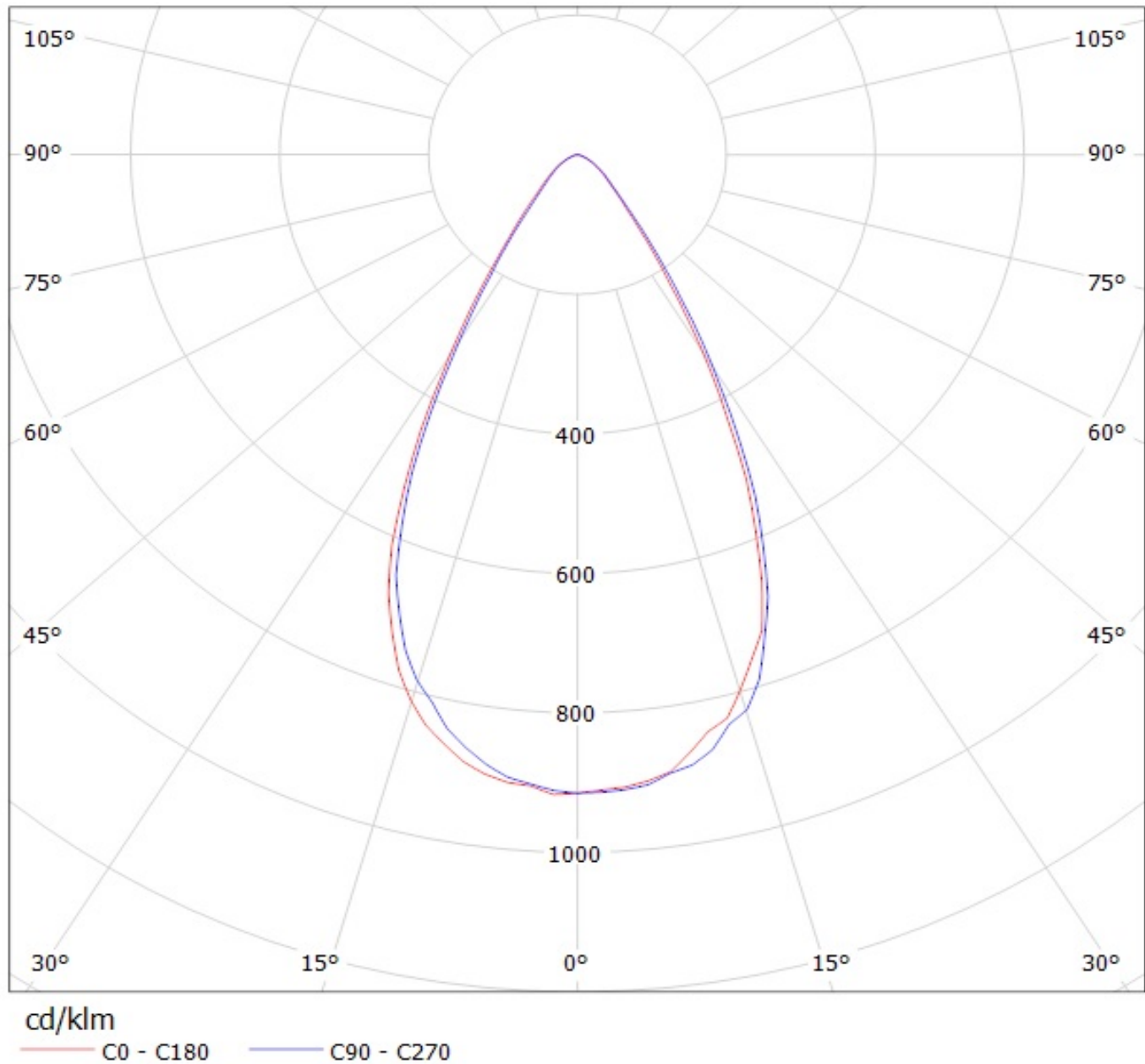
Luminaire: LEDIL OY C12361_HB-2X2 (XT-E AWT) Efficiency=89%
Lamps: 1 x Cree XT-E AWT (390lm@250mA)



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

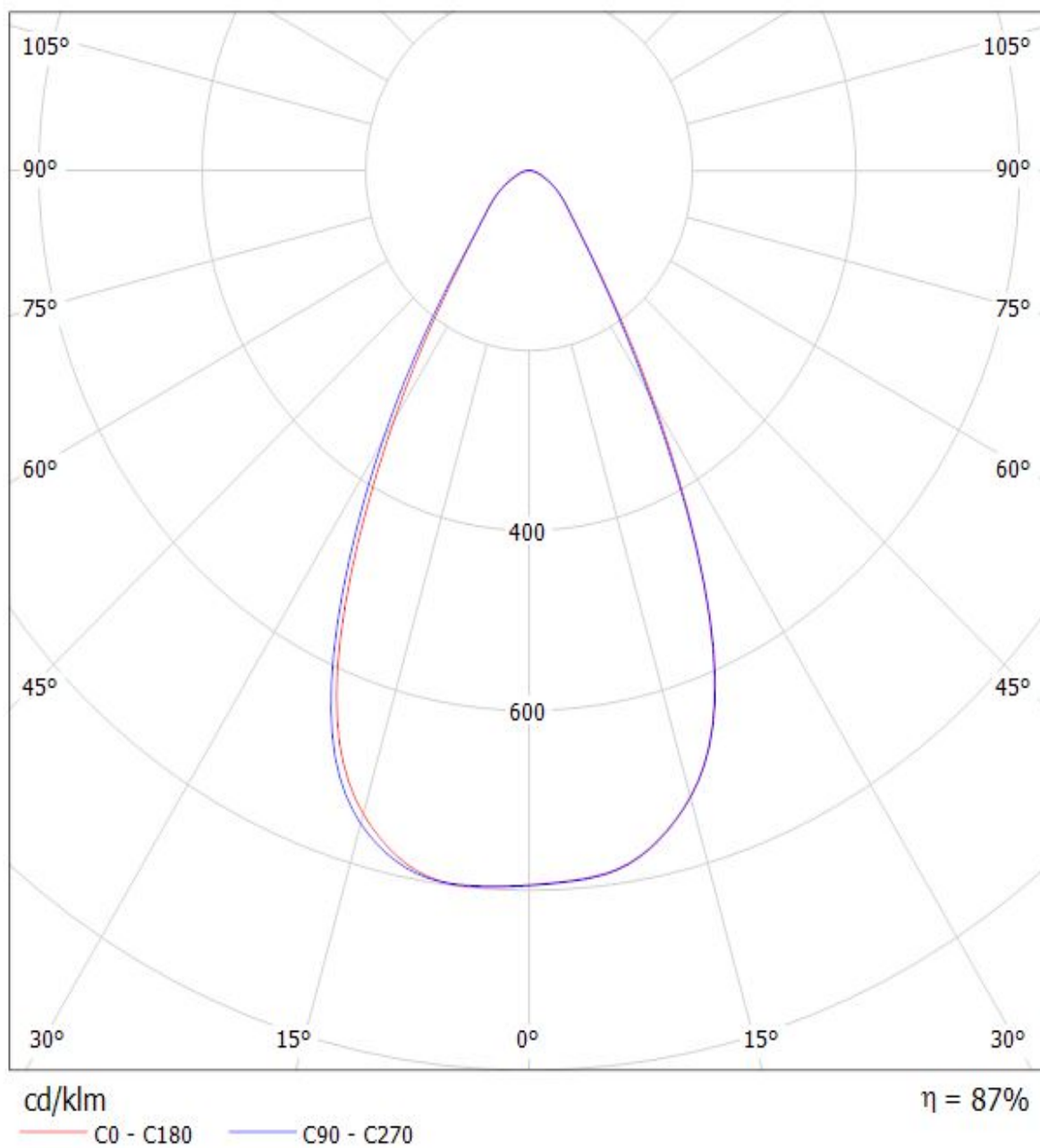


Luminaire: Ledil Oy C12361_HB-2X2-W_(XM-L2) Efficiency=87%
Lamps: 1 x Cree XM-L2 (CXMLBWT-0-7B4-T30-0L-001) 360lm @ 250mA CCT=3220K P=2.8W I=250mA

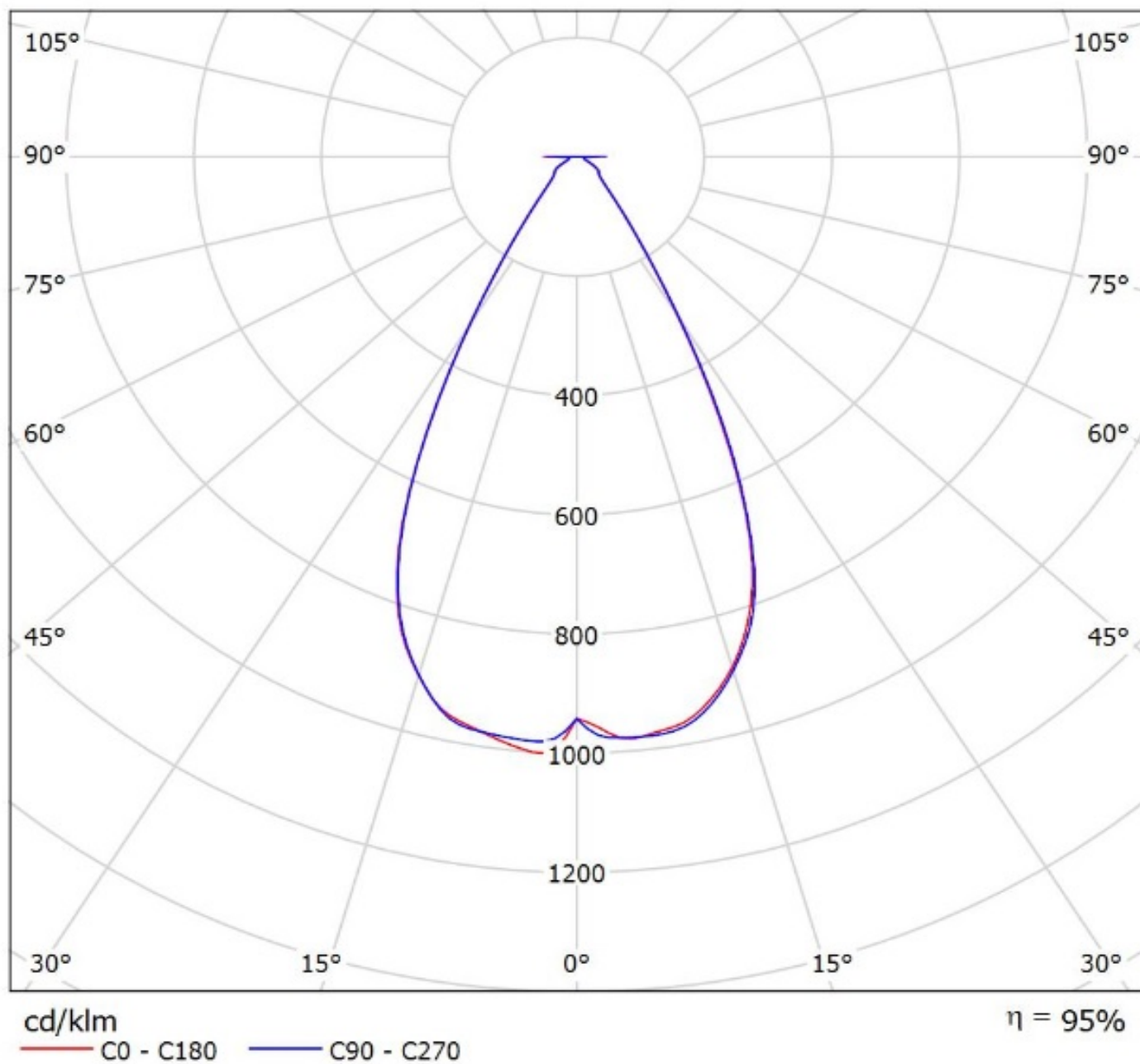


Luminaire: LEDiL Oy C12361_HB-2X2-W_(XP-L) Eff.87.0%

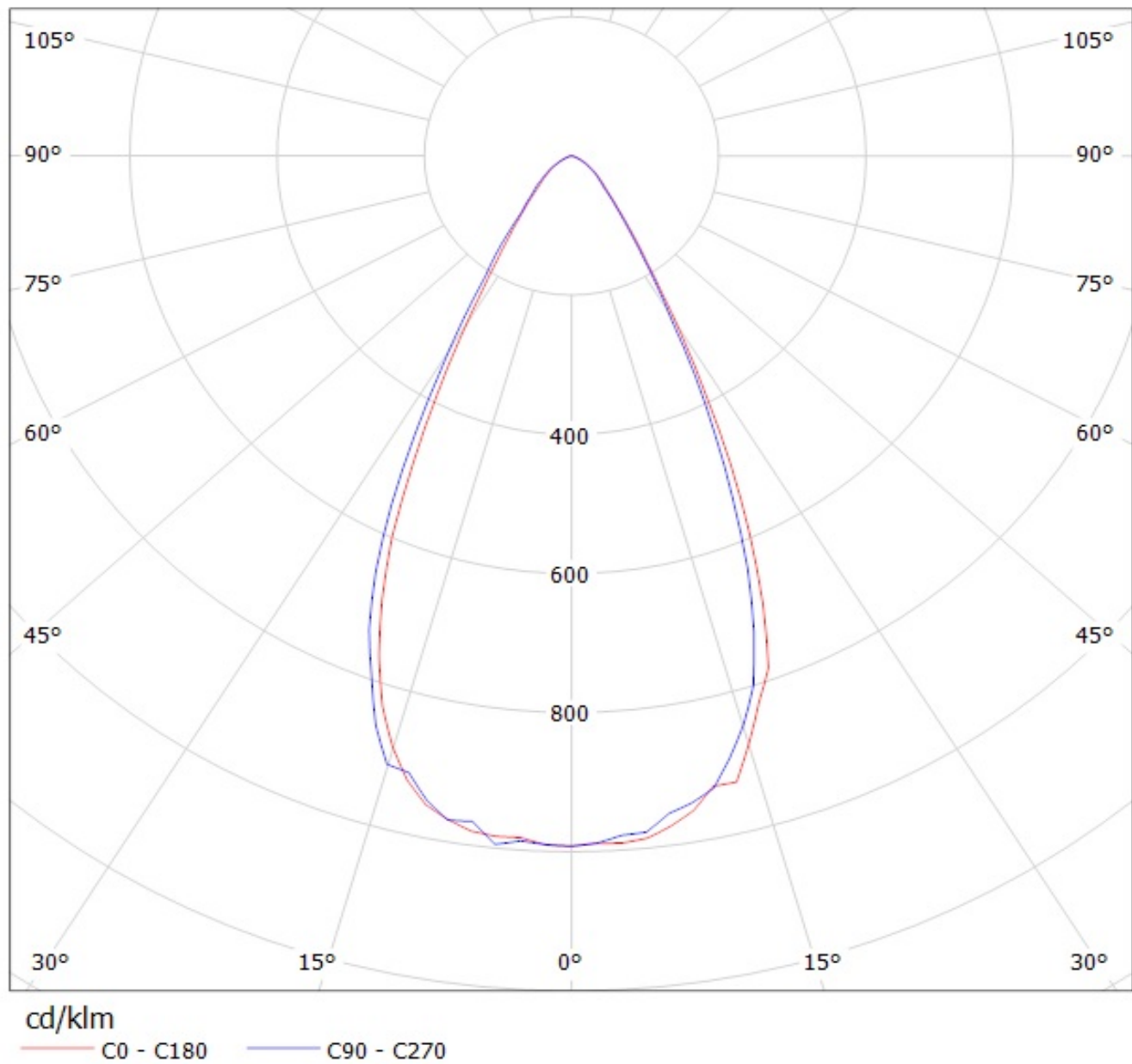
Lamps: 1 x CREE_XP-L_2x2_(XPLAWT-0-1B0-V40-00-0001)_504.373lm@250mA_CCT=7600K_P=2.79963W_I=249.9mA



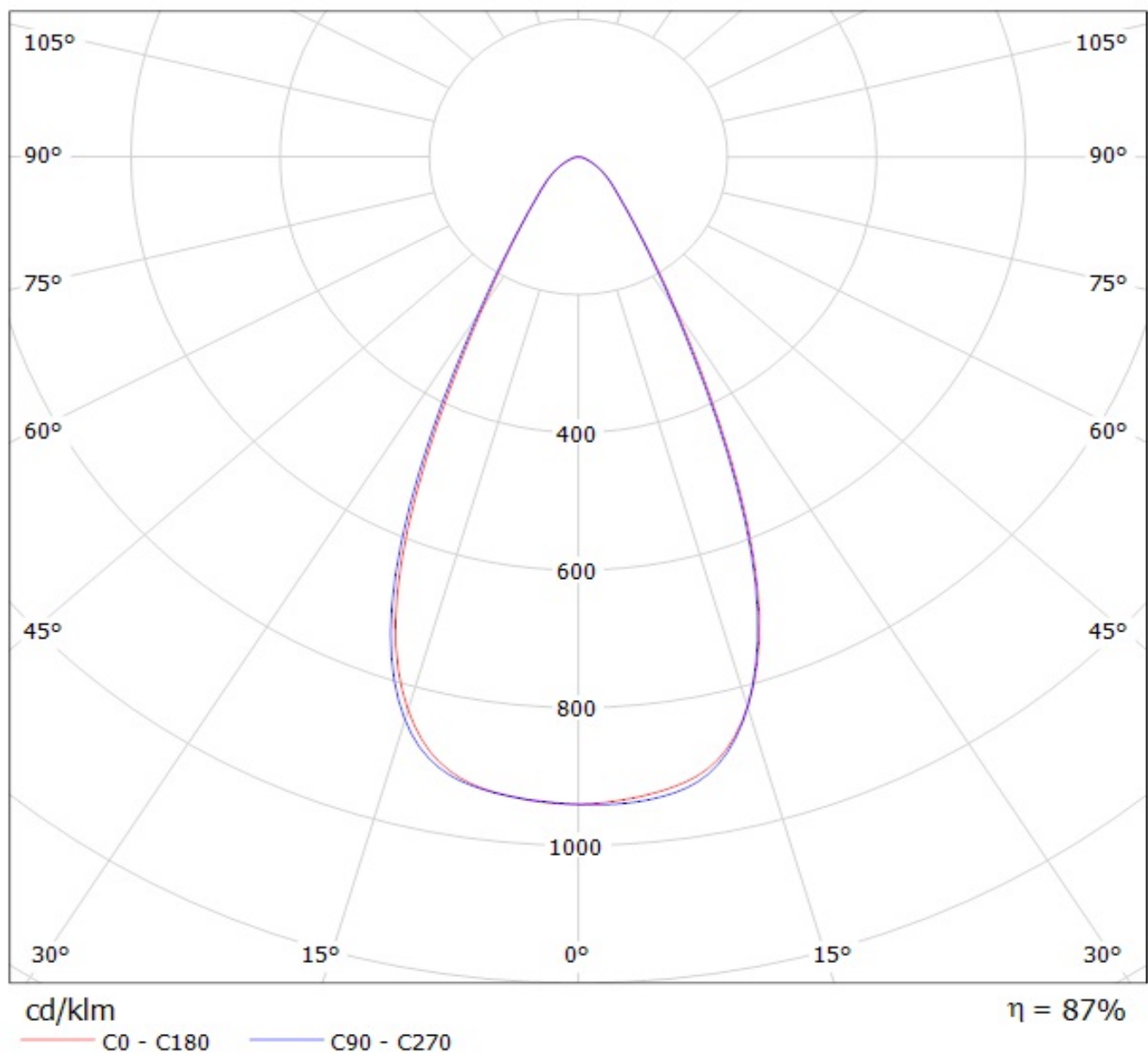
Luminaire: Ledil Oy C12361_HB-2X2-W_(XP-G3)_SIMULATED
Lamps: 1 x Cree XP-G3



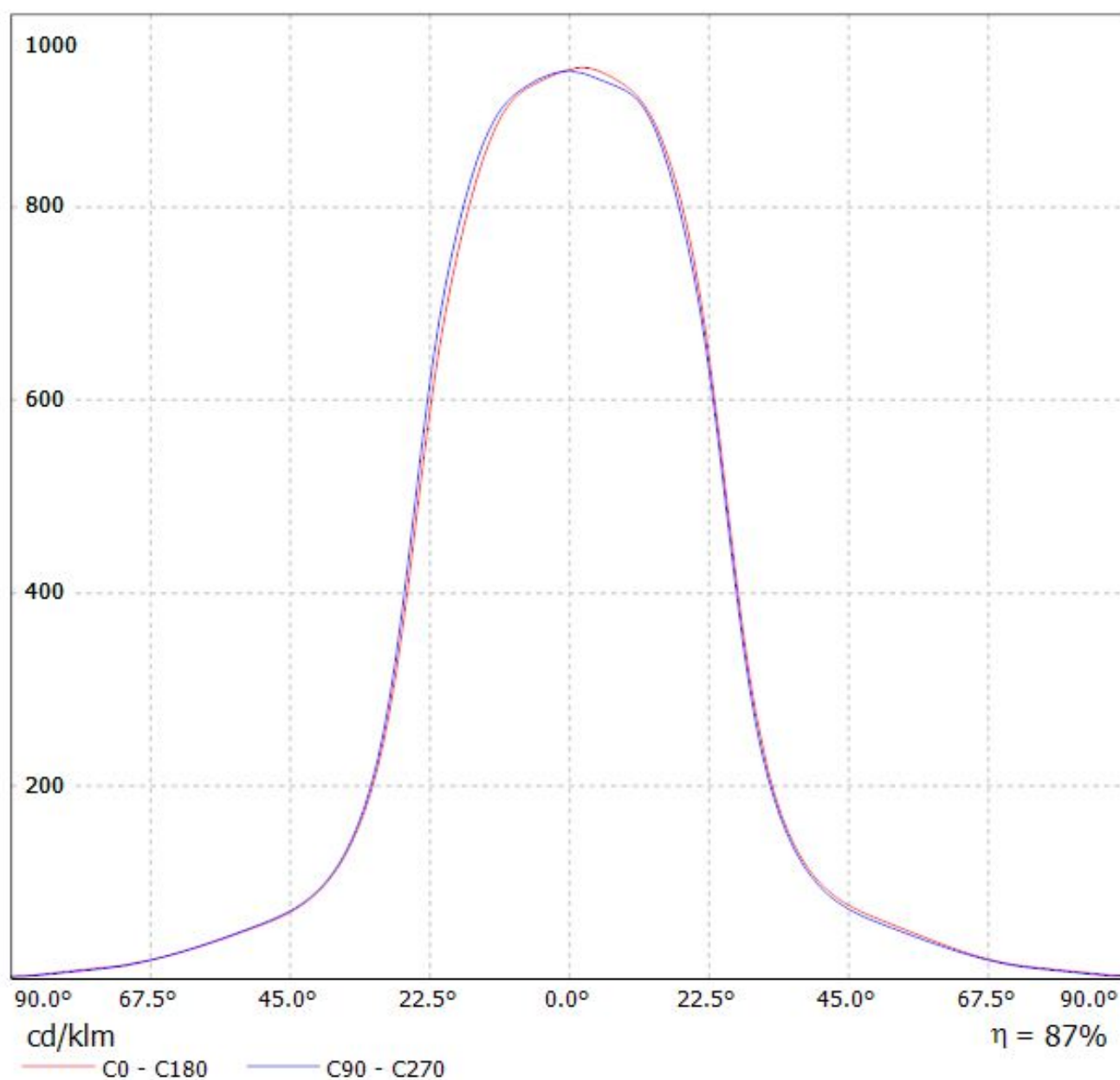
Luminaire: Ledil Oy C12361_HB-2X2-W_(3535_Ceramic_gen2) Efficiency=86%
Lamps: 1 x LG 3535 Ceramic gen2 (PKG5700K) 461lm @ 250mA CCT=6600K P=2.9W I=250mA



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

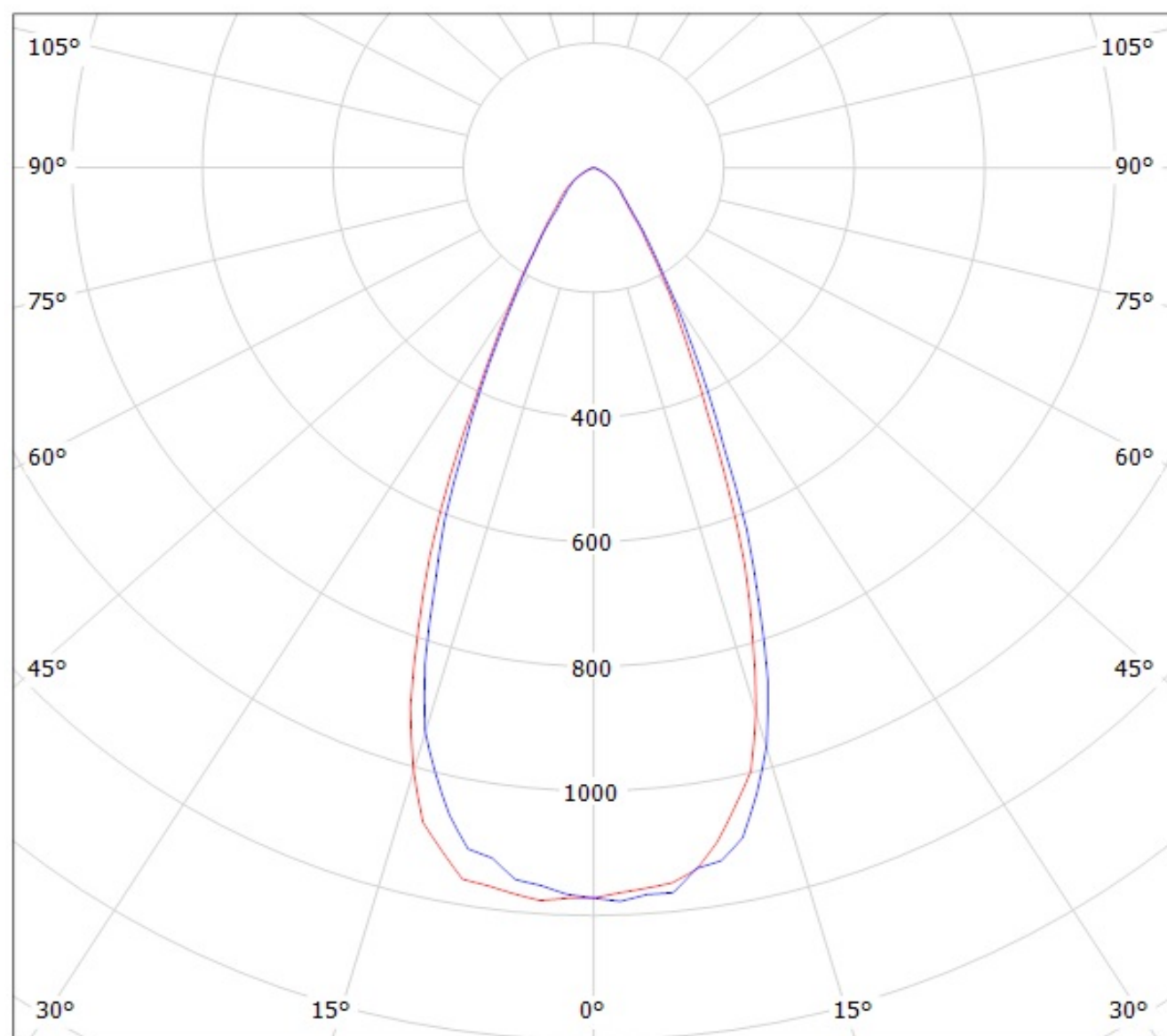


Luminaire: LEDiL Oy C12361_HB-2X2-W_(LUXEON_T)_1 Eff.87.0%
Lamps: 1 x LUXEON_T 2x2 (294lm@250mA)



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

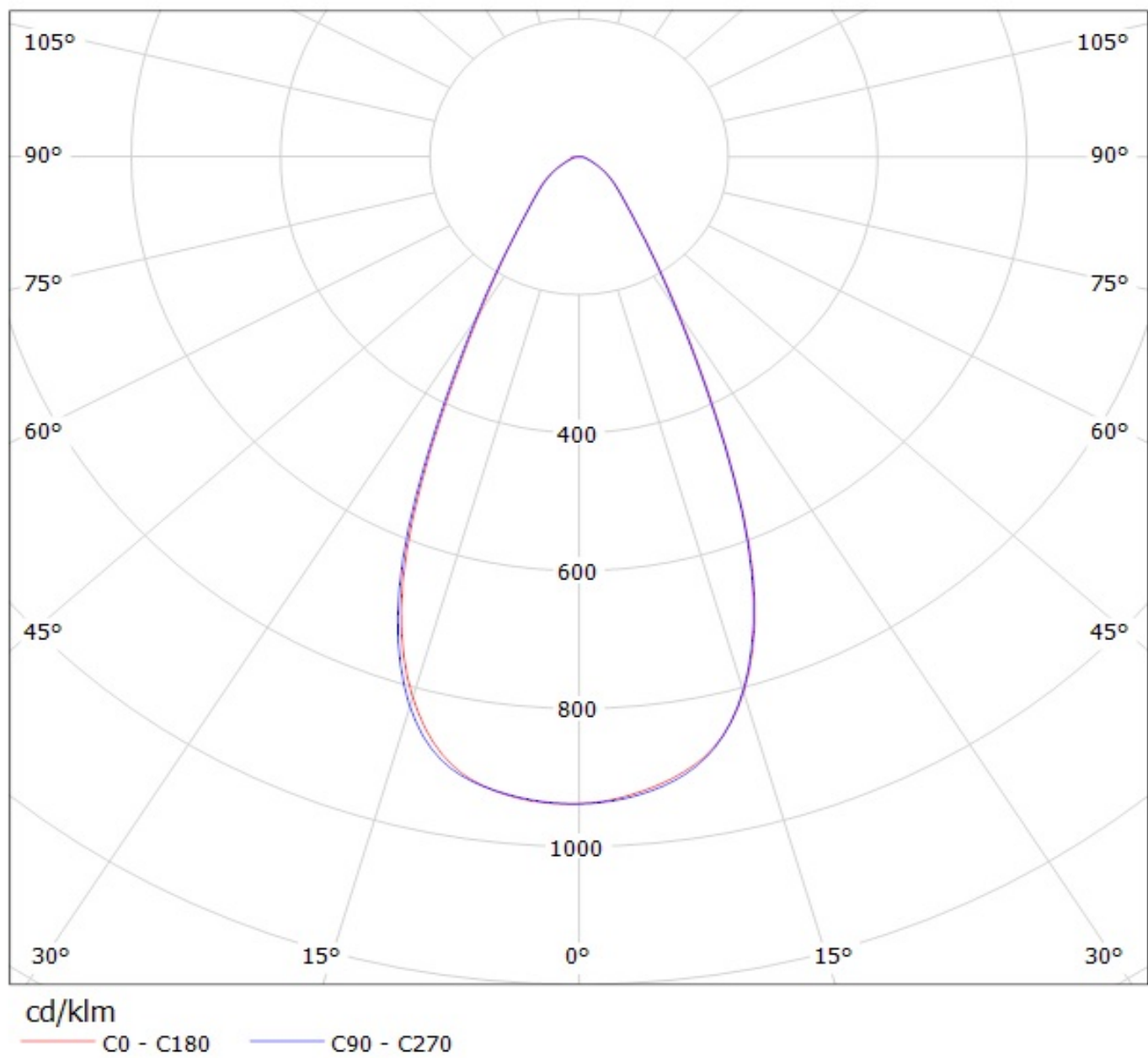


cd/klm

— C0 - C180

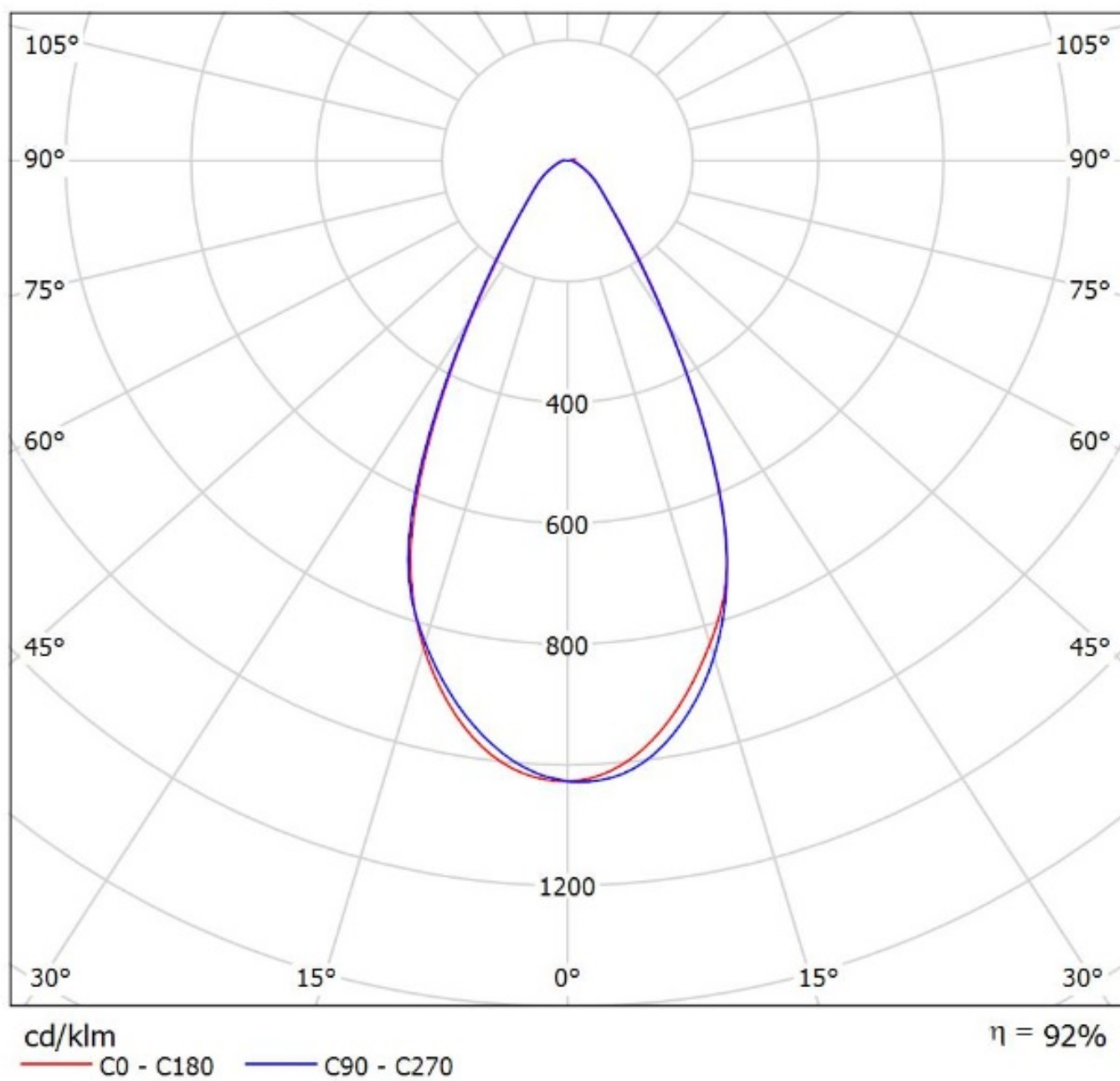
— C90 - C270

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

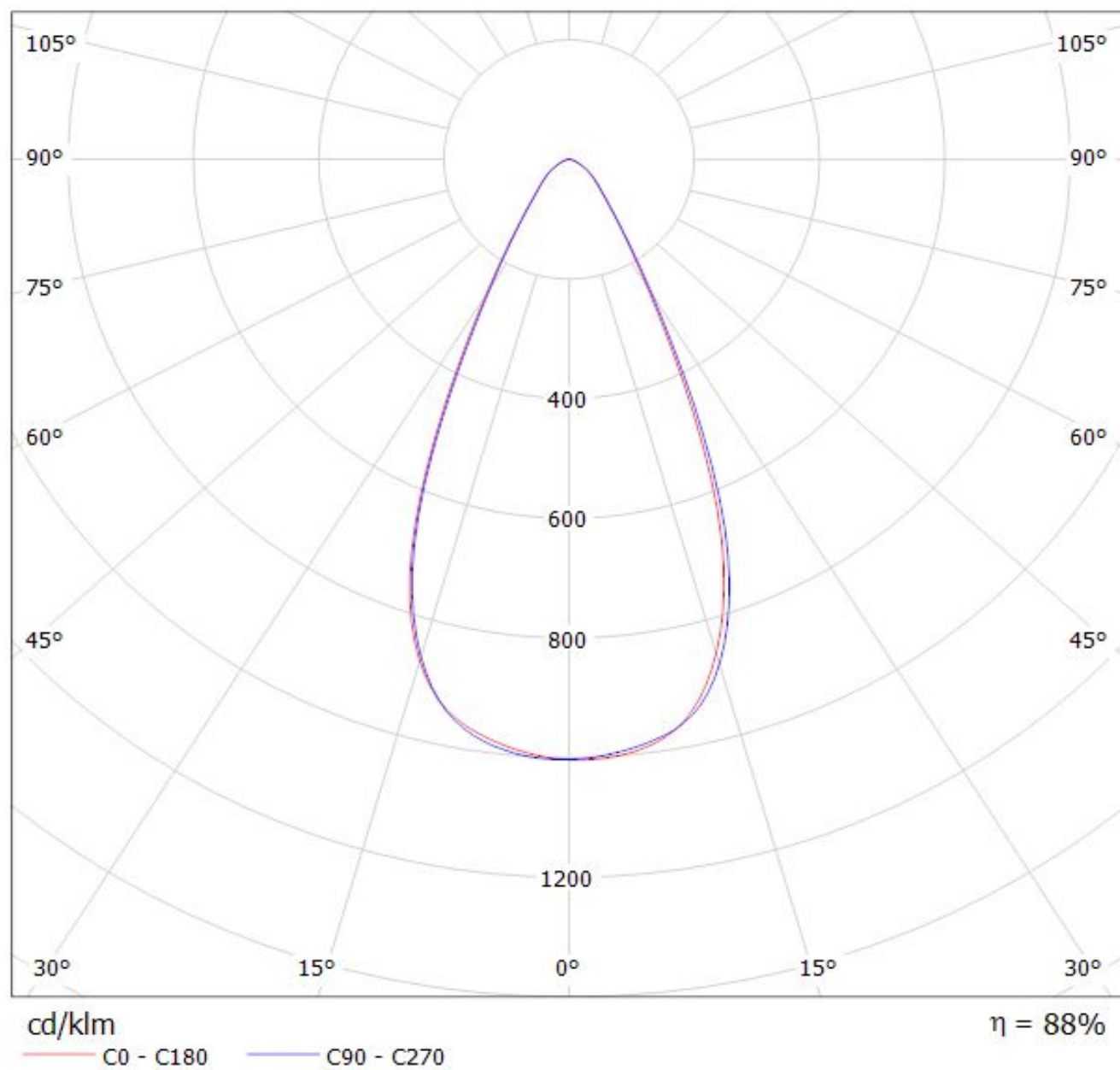


Luminaire: Ledil C12361_HB-2X2-W_(Luxeon_MZ)

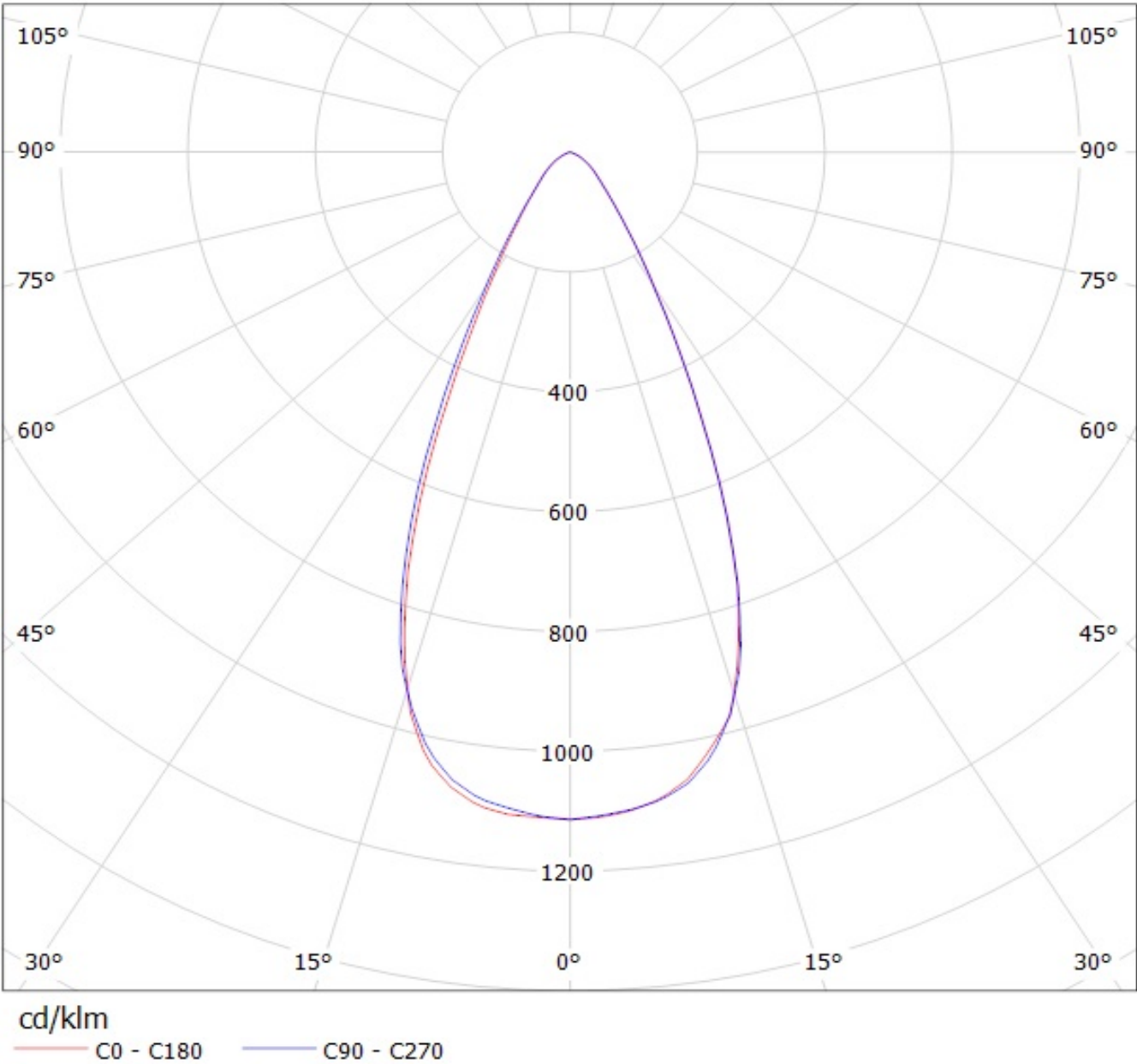
Lamps: 1 x Philips_Lumileds_Luxeon_MZ_(LMZ7-QW57)_(2x2)_427.268lm@250mA_P=2.734W_I=0.2500A



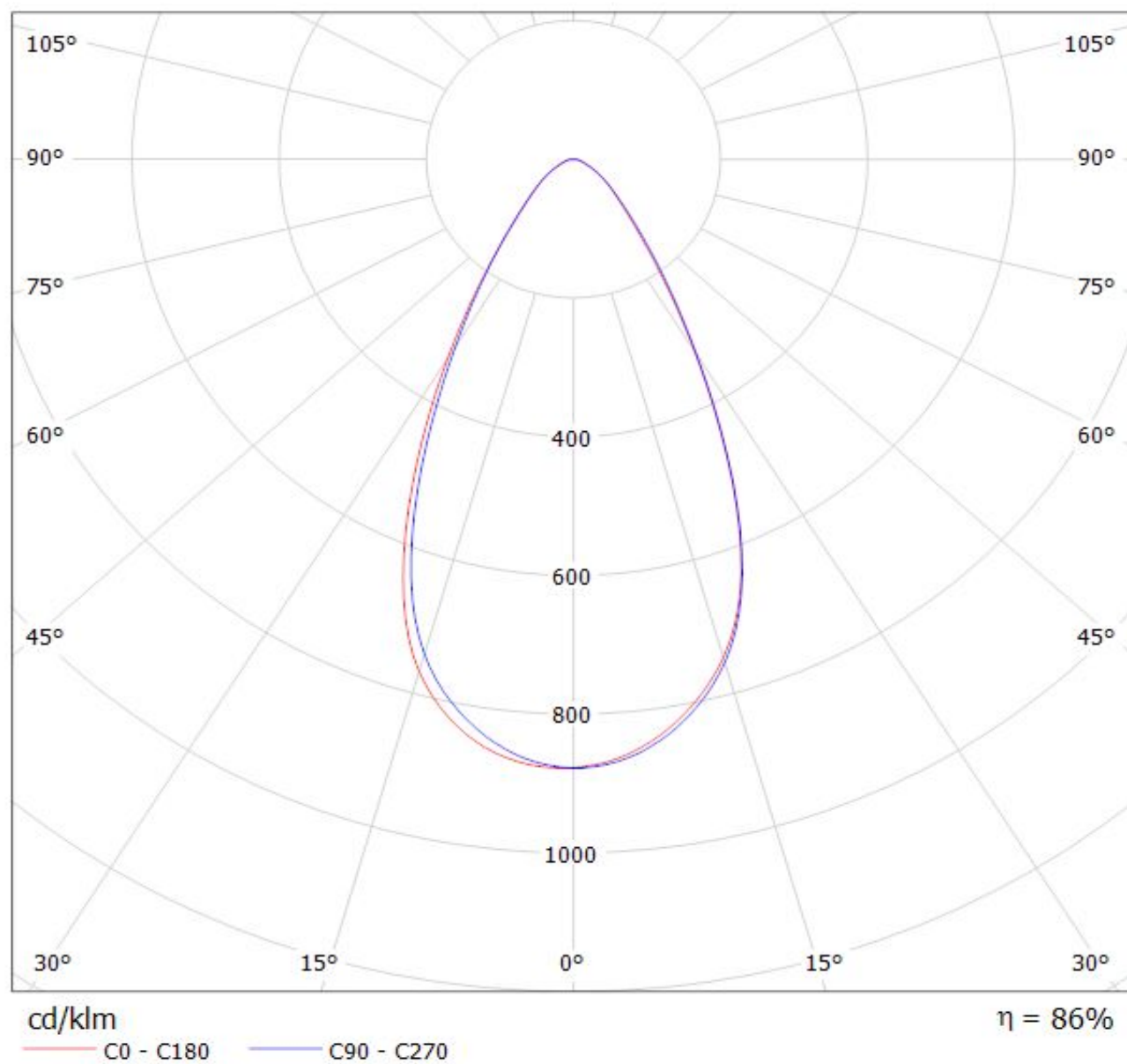
Luminaire: LEDiL Oy C12361_HB-2X2-W_(Luxeon_TX) Eff.87.5%
Lamps: 1 x Luxeon_TX_2x2_320.412lm@250mA_P=2.79013W_I=249.9mA



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

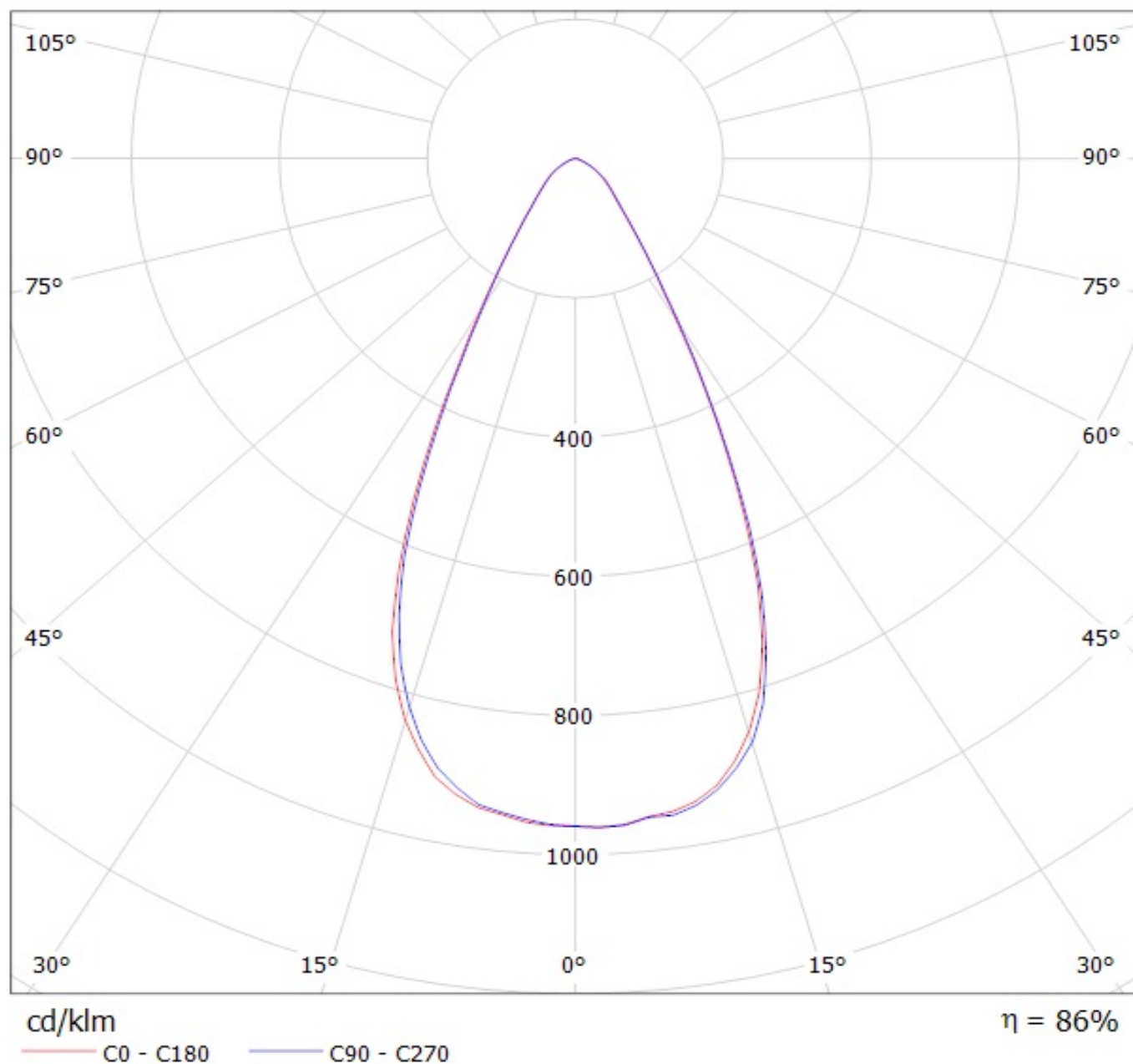


Luminaire: LEDiL Oy C12361_HB-2X2-W_(NS9x383) Eff. 86%
Lamps: 1 x Nichia NS9x383 (288lm@250mA)



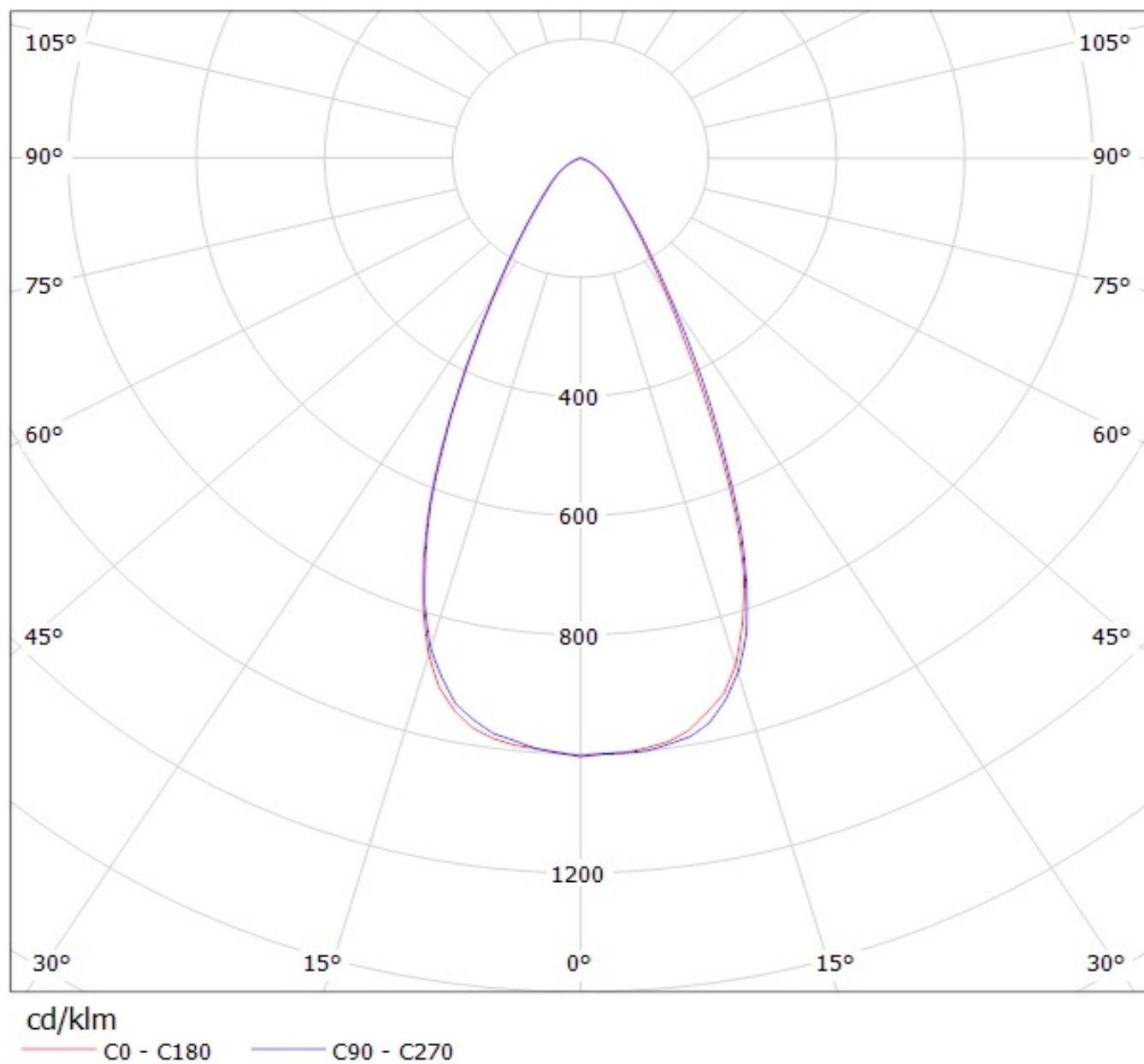
Luminaire: Ledil Oy C12361_HB-2X2-W_(NVS19B) Efficiency=85%

Lamps: 1 x Nichia NVS19B (NVSL219BE) 308lm @ 250mA CCT= P=2.89W I=250mA



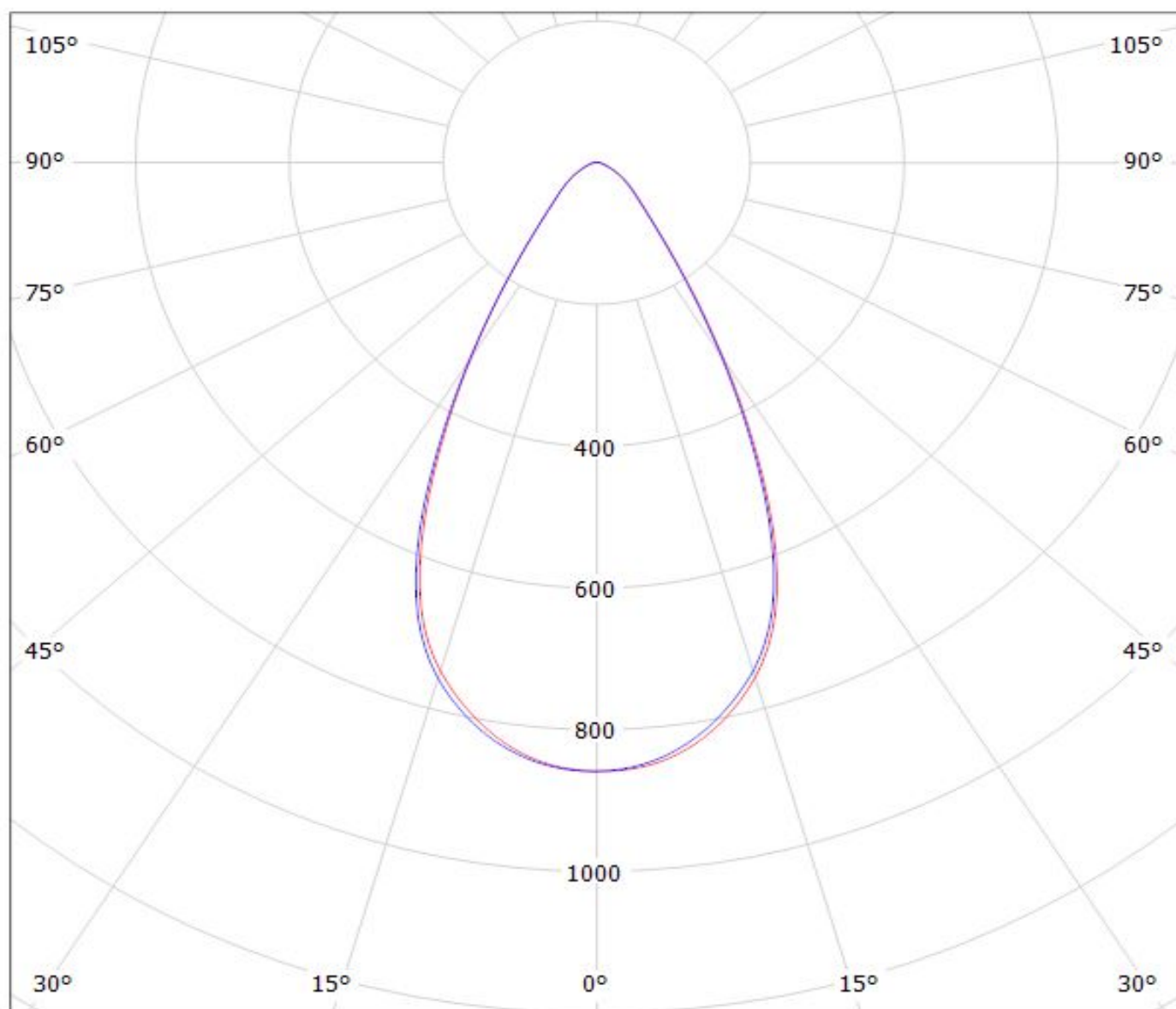
Luminaire: LEDil Oy C12361_HB-2x2-W_(NCSxx19B) Efficiency=85%

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



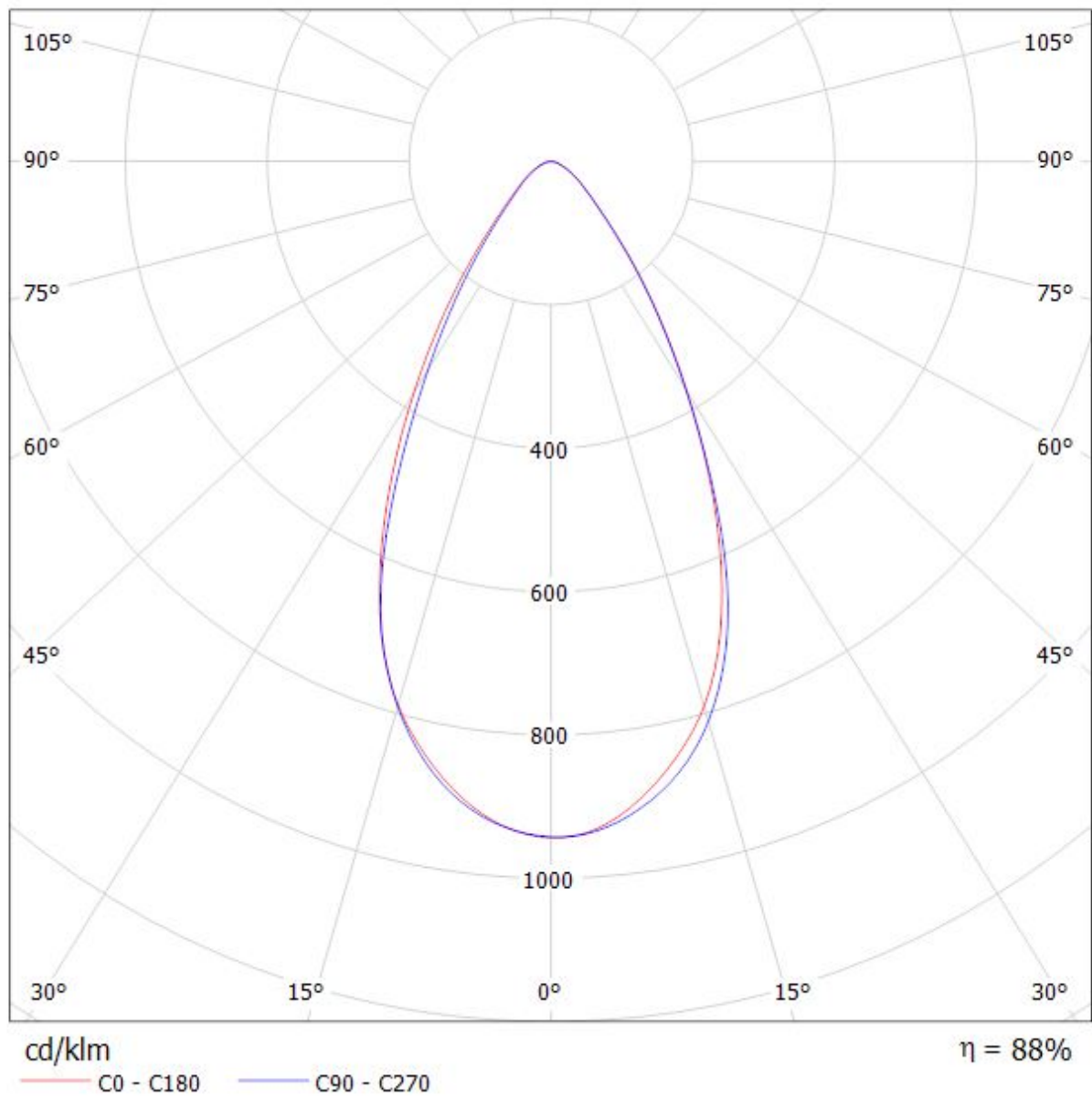
cd/klm

$\eta = 86\%$

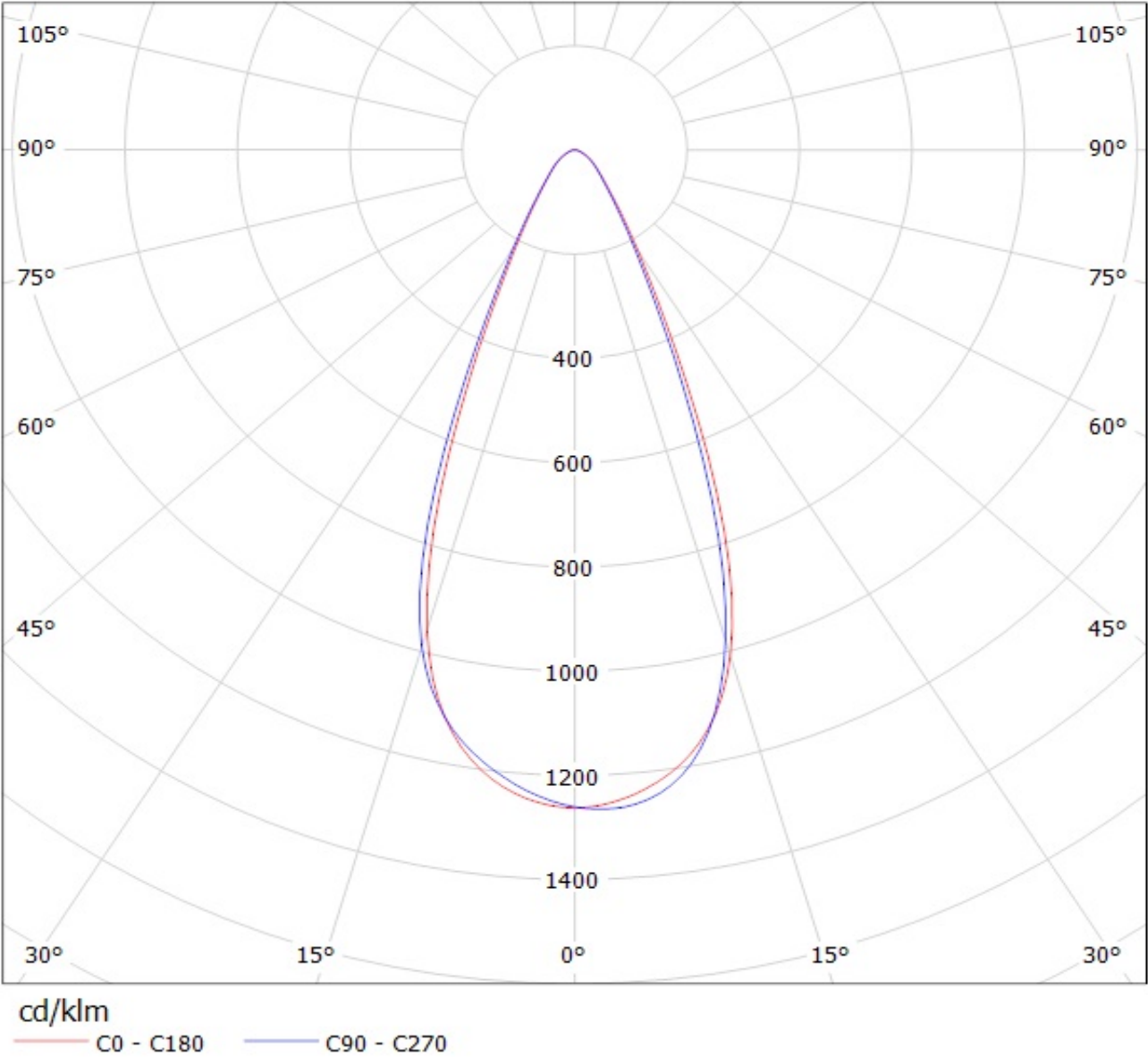
C0 - C180

C90 - C270

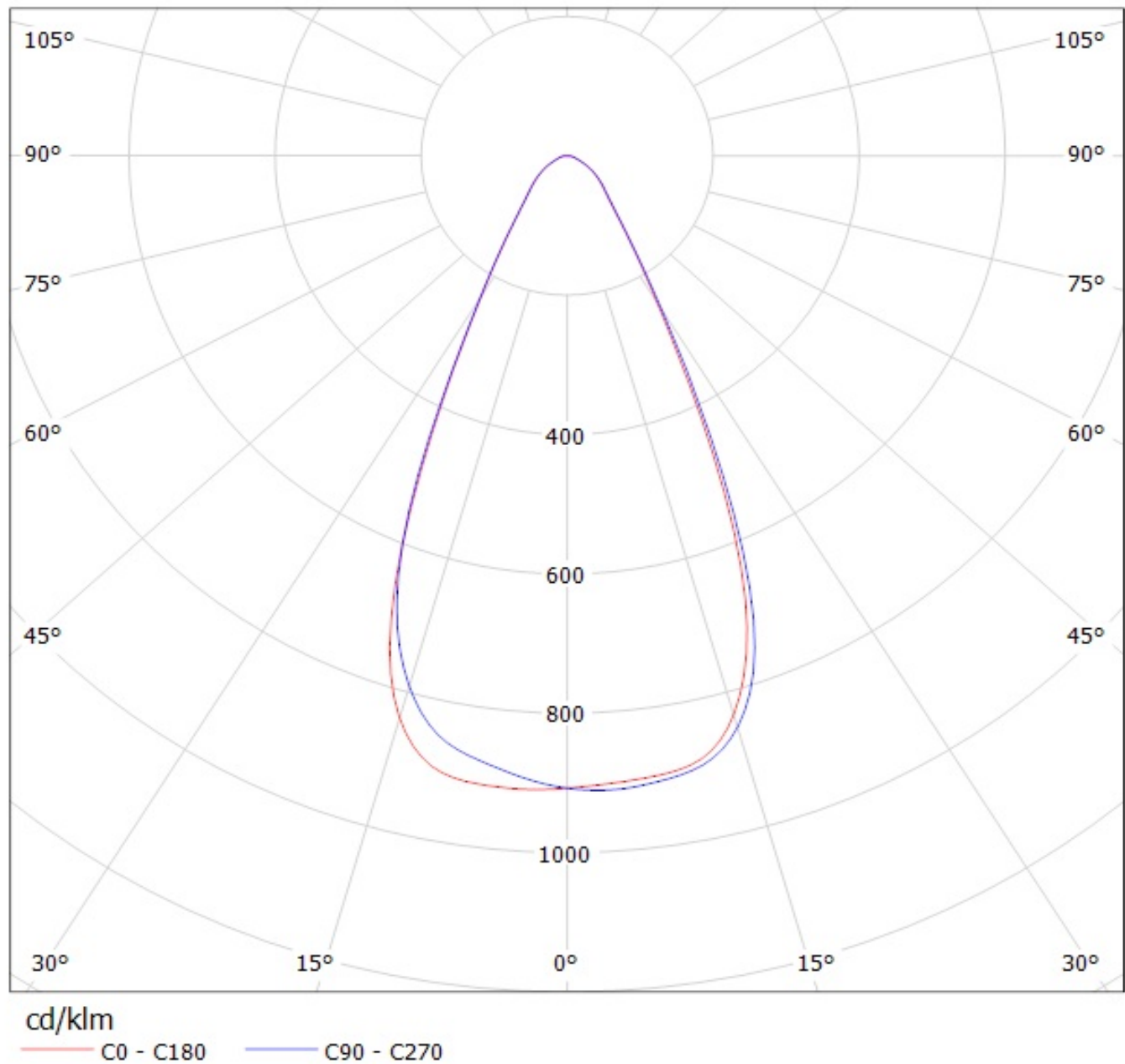
Luminaire: LEDiL Oy C12361_HB-2X2-W_(OLP-5065F6L-06A) Eff.88.5%
Lamps: 1 x OPTOGAN_2x2_(OLP-5065F6L-06A-80-D0500) 423.091lm@250mA CCT=5000K P=2.98506W I=249.9mA



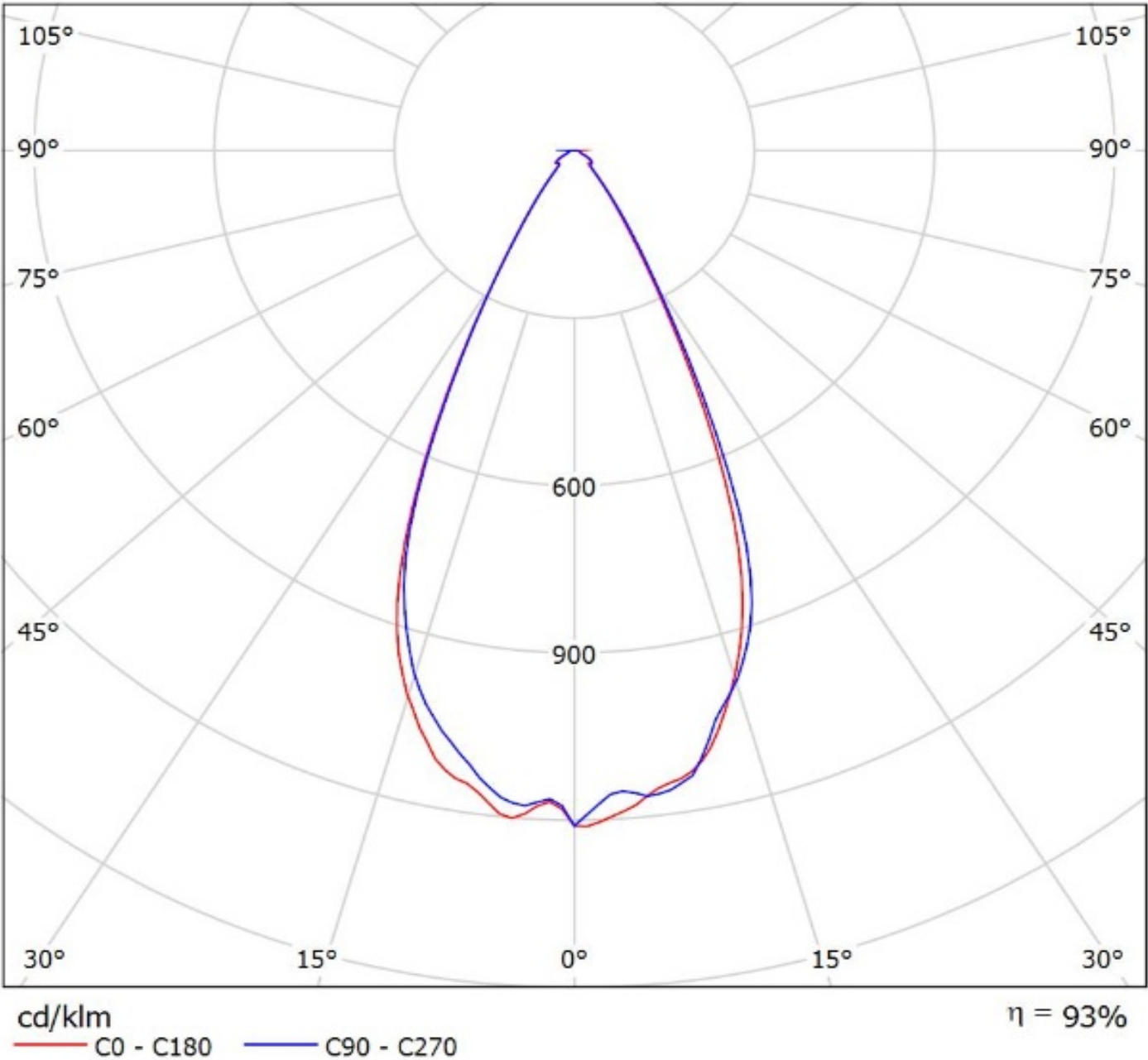
Luminaire: LEDIL OY C12361_HB-2X2 (SSL80) Efficiency=89%
Lamps: 1 x Osram SSL80 (340lm @ 250mA)



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

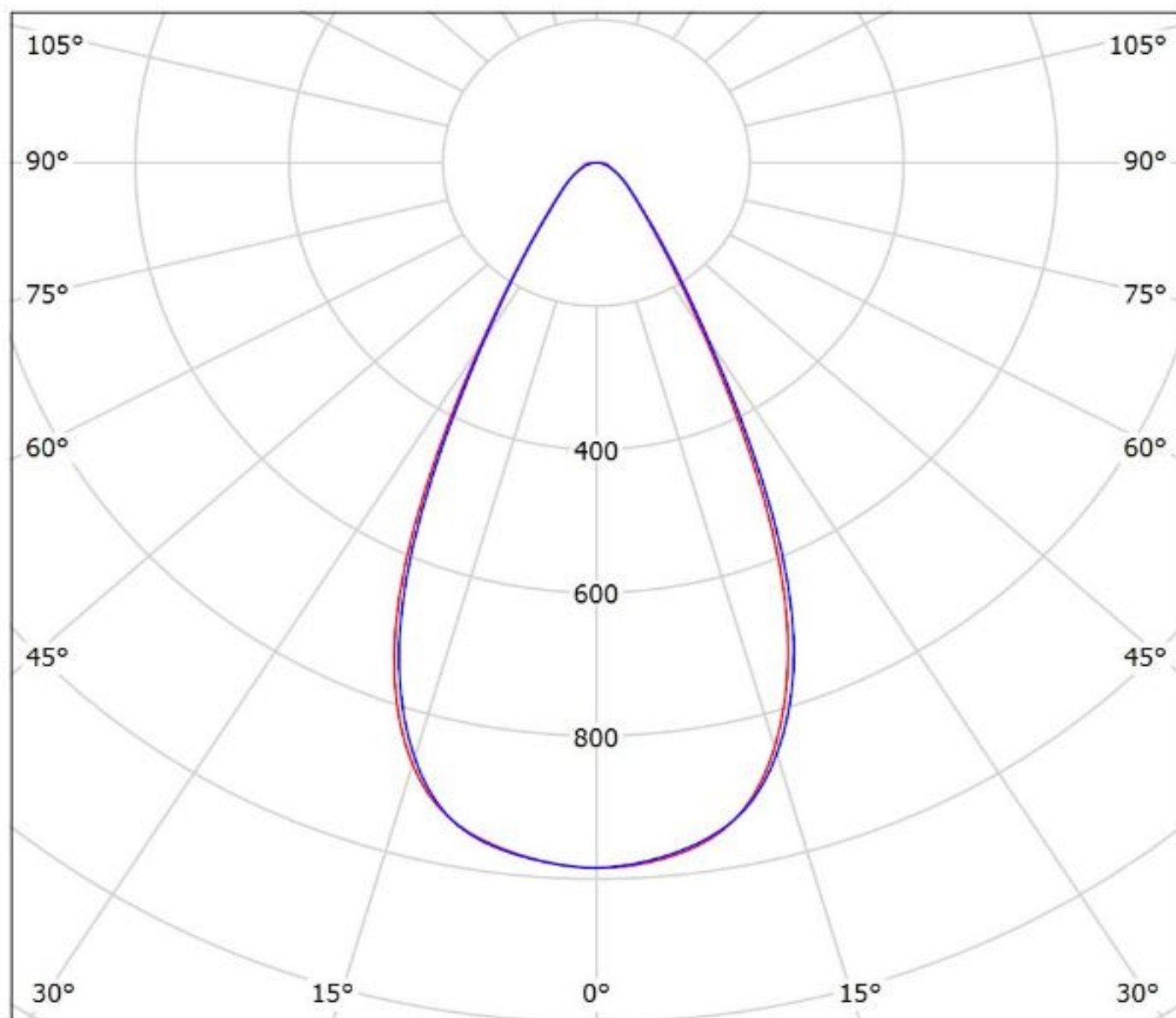


Luminaire: Ledil Oy C12361_HB-2X2-W_(Duris_P8)_SIMULATED
Lamps: 1 x Osram Duris P8



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

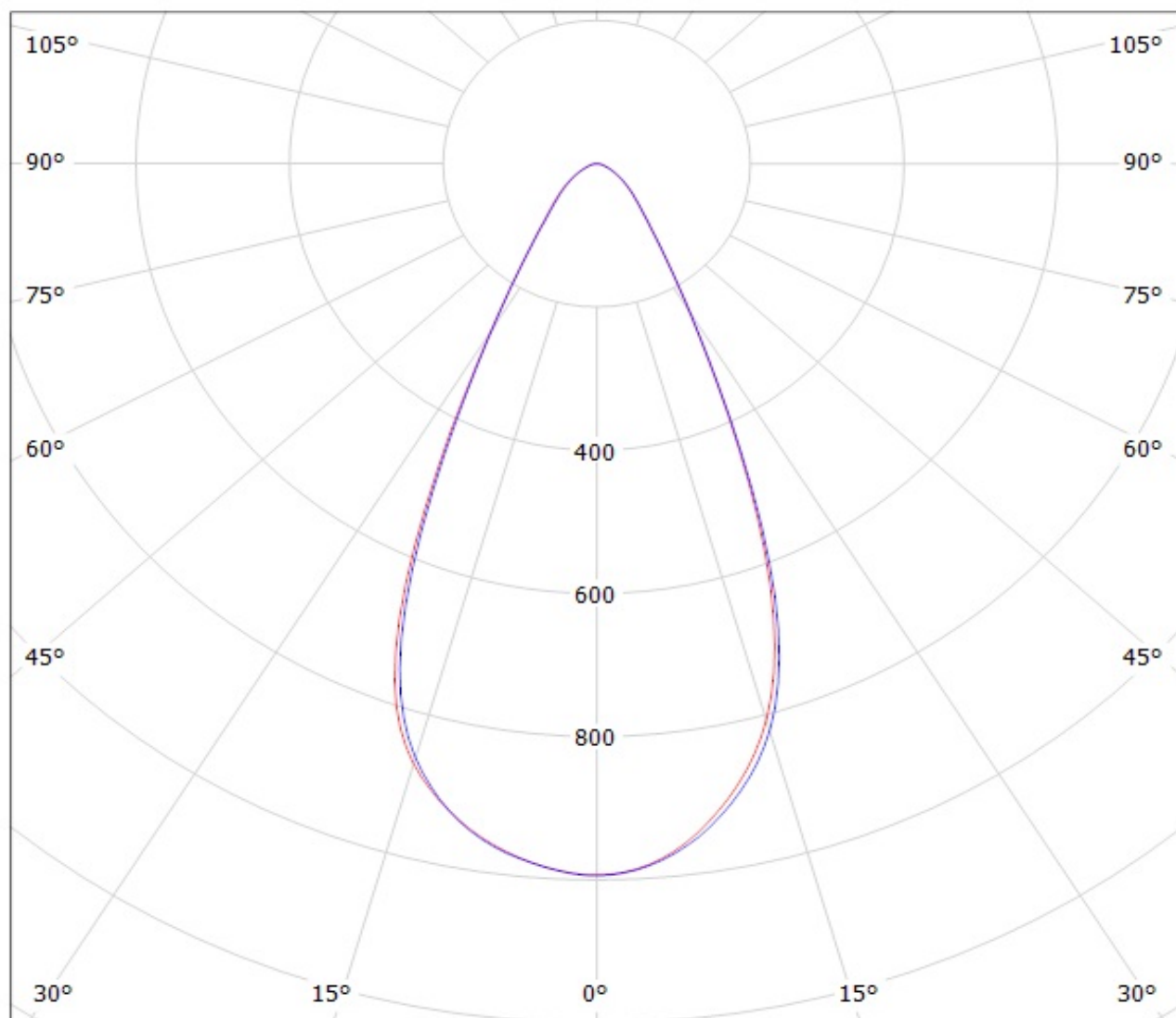


cd/klm

— C0 - C180 — C90 - C270

$\eta = 94\%$

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

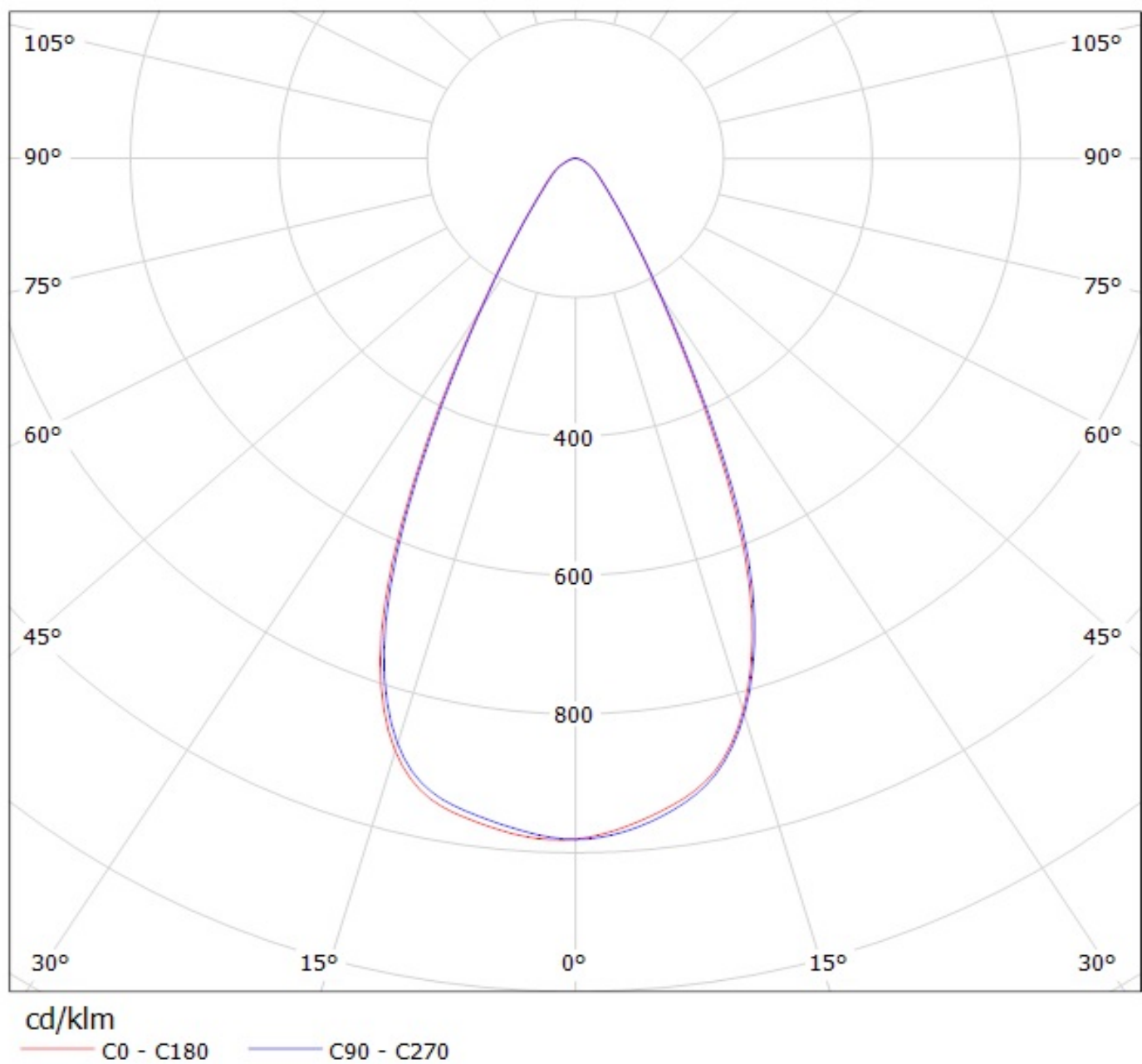


cd/klm

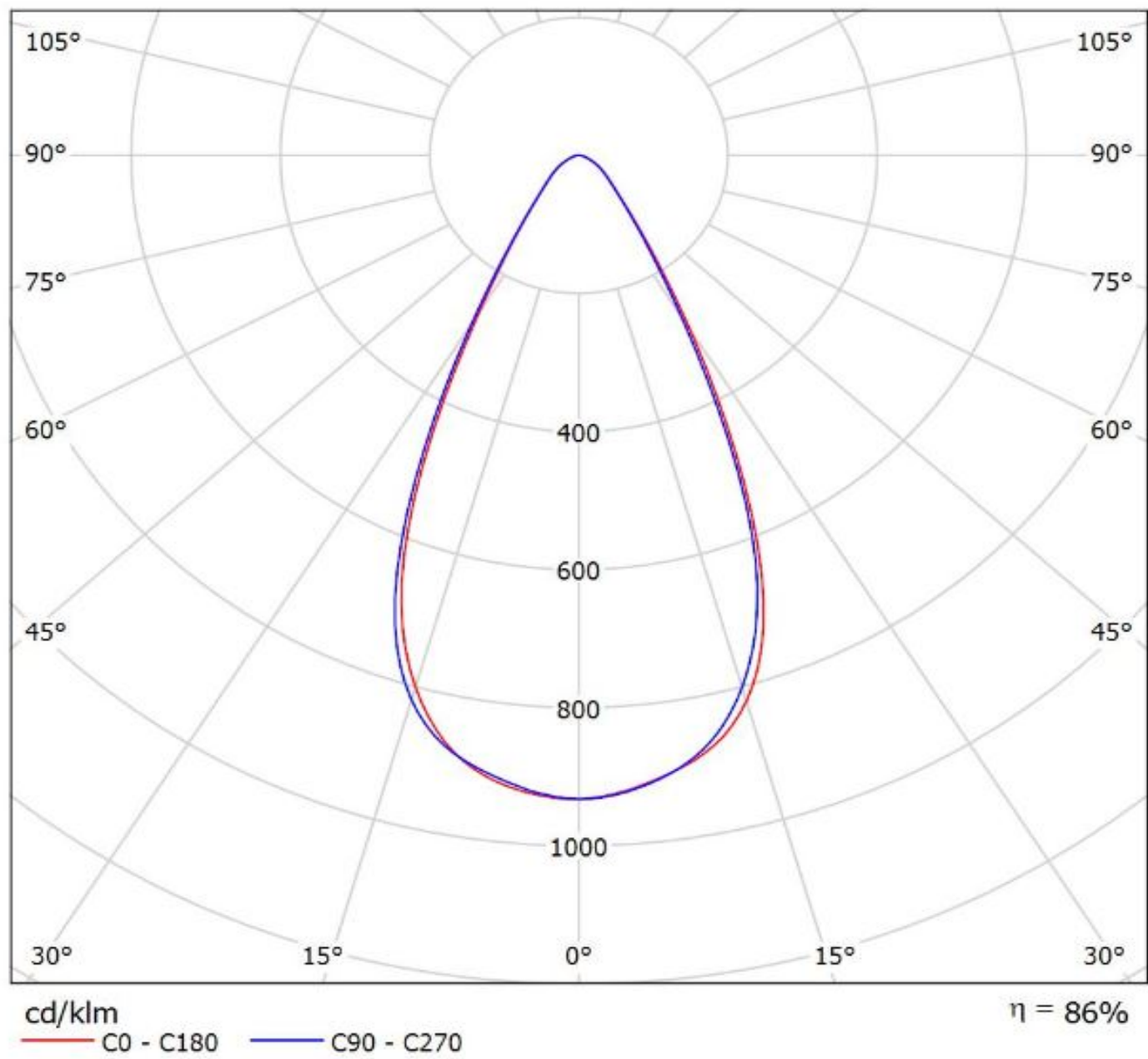
— C0 - C180

— C90 - C270

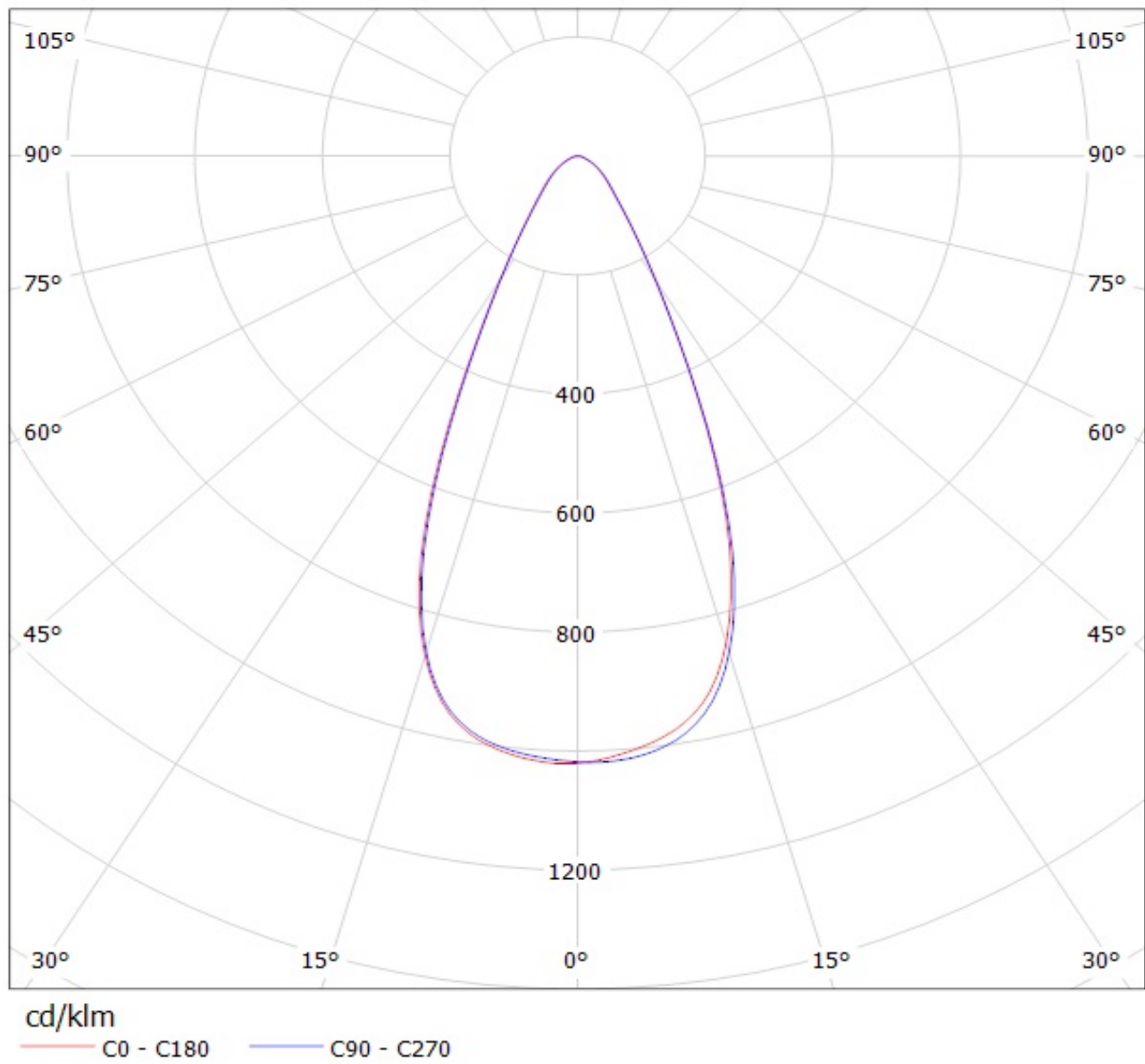
Luminaire: LEDiL Oy C12361_HB-2X2-W_(LH351Z) Eff.87.4%
Lamps: 1 x SAMSUNG_LH351Z_2x2_359.49lm@250mA_P=2.86371W_I=249.8mA



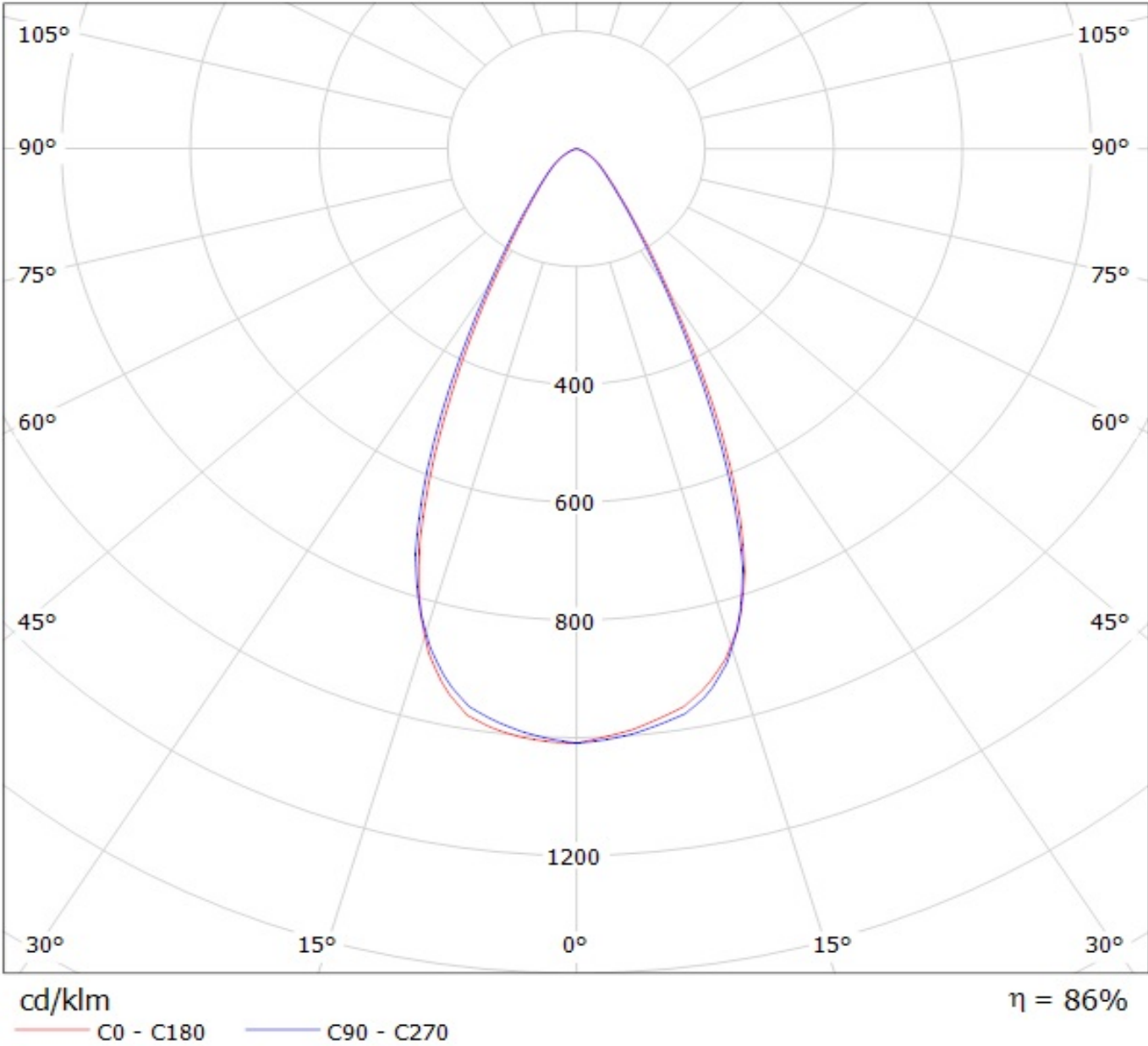
Luminaire: Ledil C12361_HB-2X2-W_(LH351B)
Lamps: 1 x Samsung_LH351B_2x2_444.178lm@250mA_P=2.8535W_I=0.25A



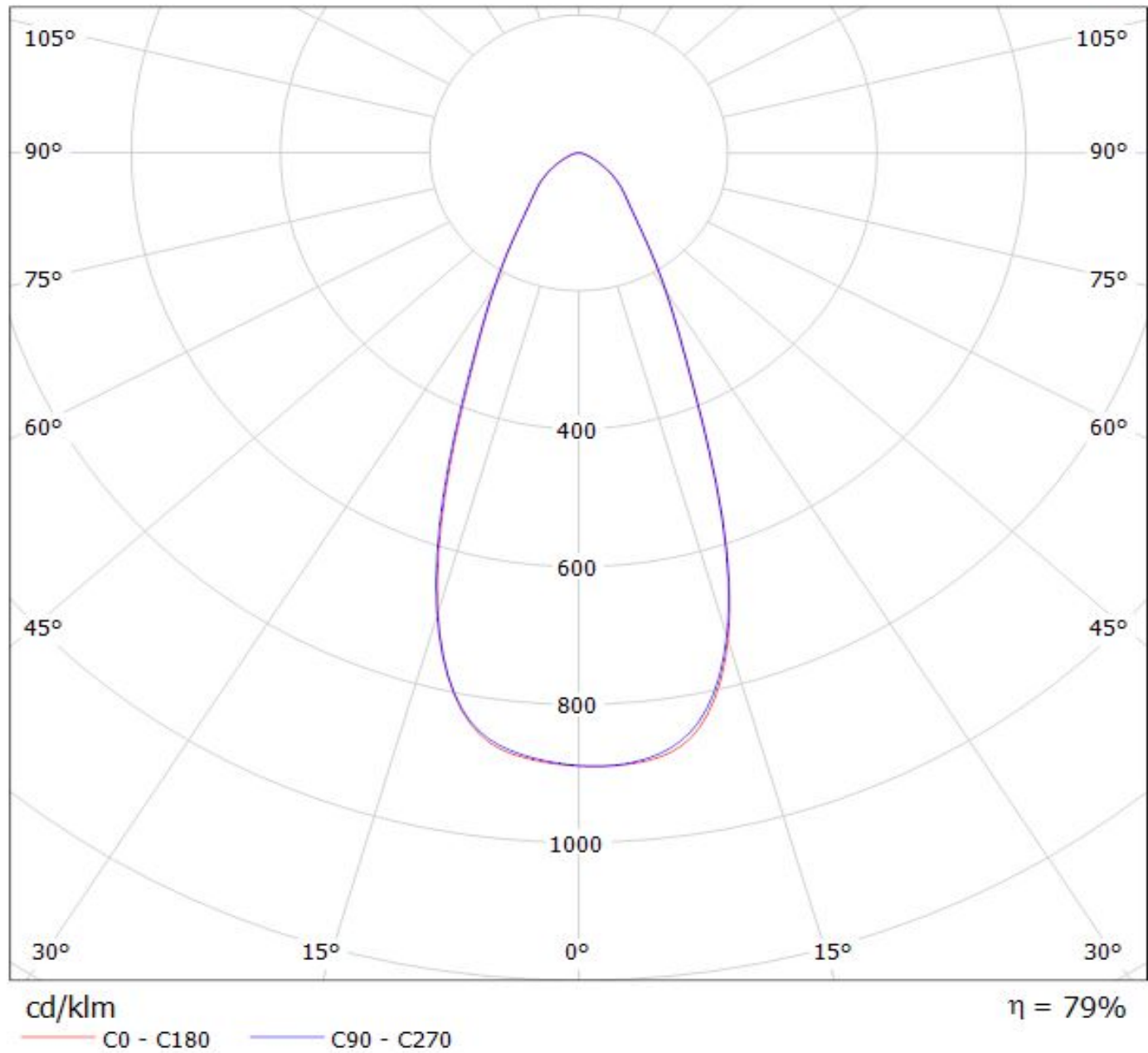
Luminaire: LEDIL OY C12361_HB-2X2 (Z5) Efficiency=88%
Lamps: 1 x Seoul Z5 (290lm @ 250mA)



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

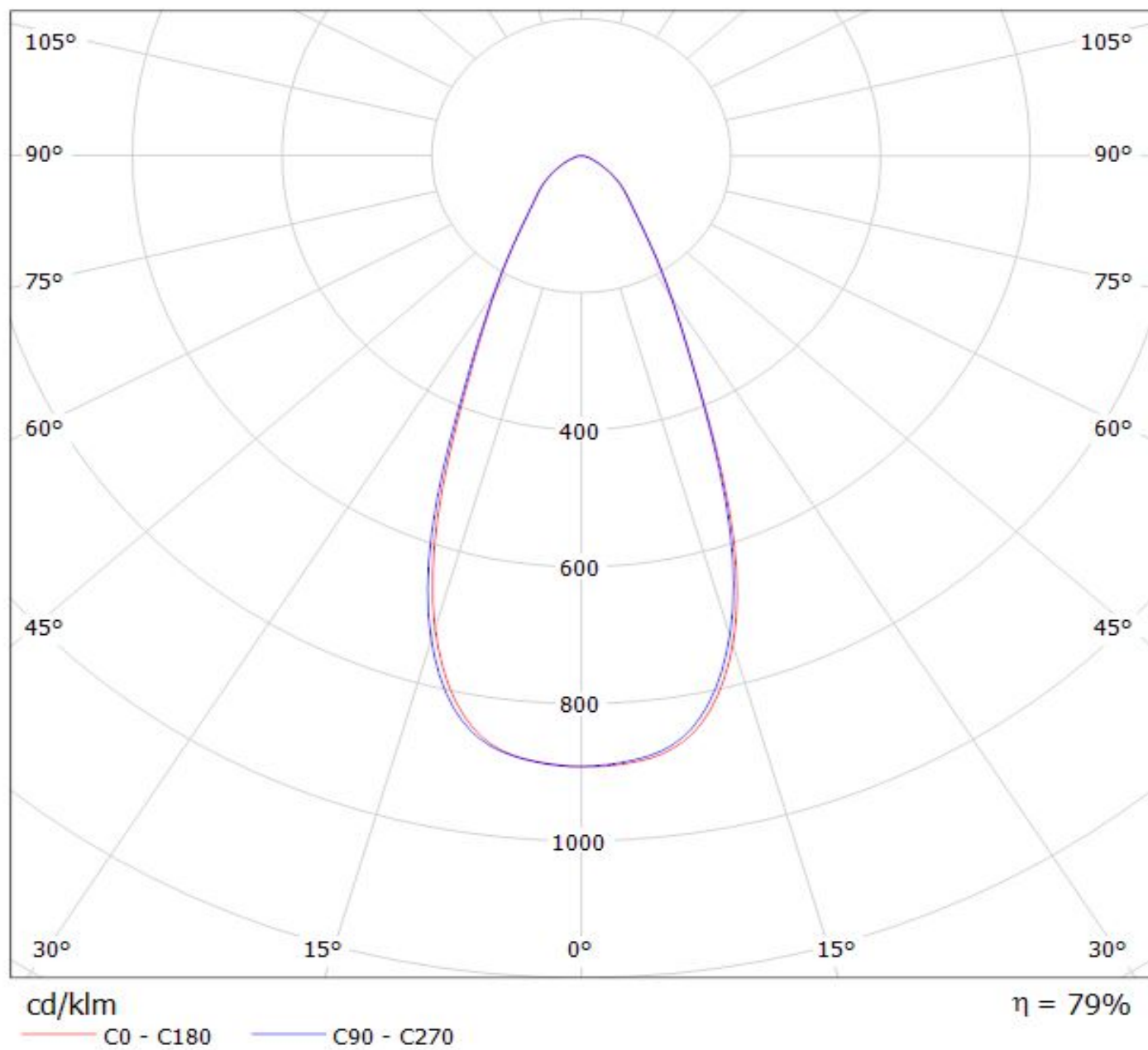


Luminaire: LEDiL Oy C12361_HB-2X2-W_(WICOP2_Z8Y15)
Lamps: 1 x SEOUL_WICOP2_Z8Y15_336.842lm@250mA_P=2.9399W_I=0.250A

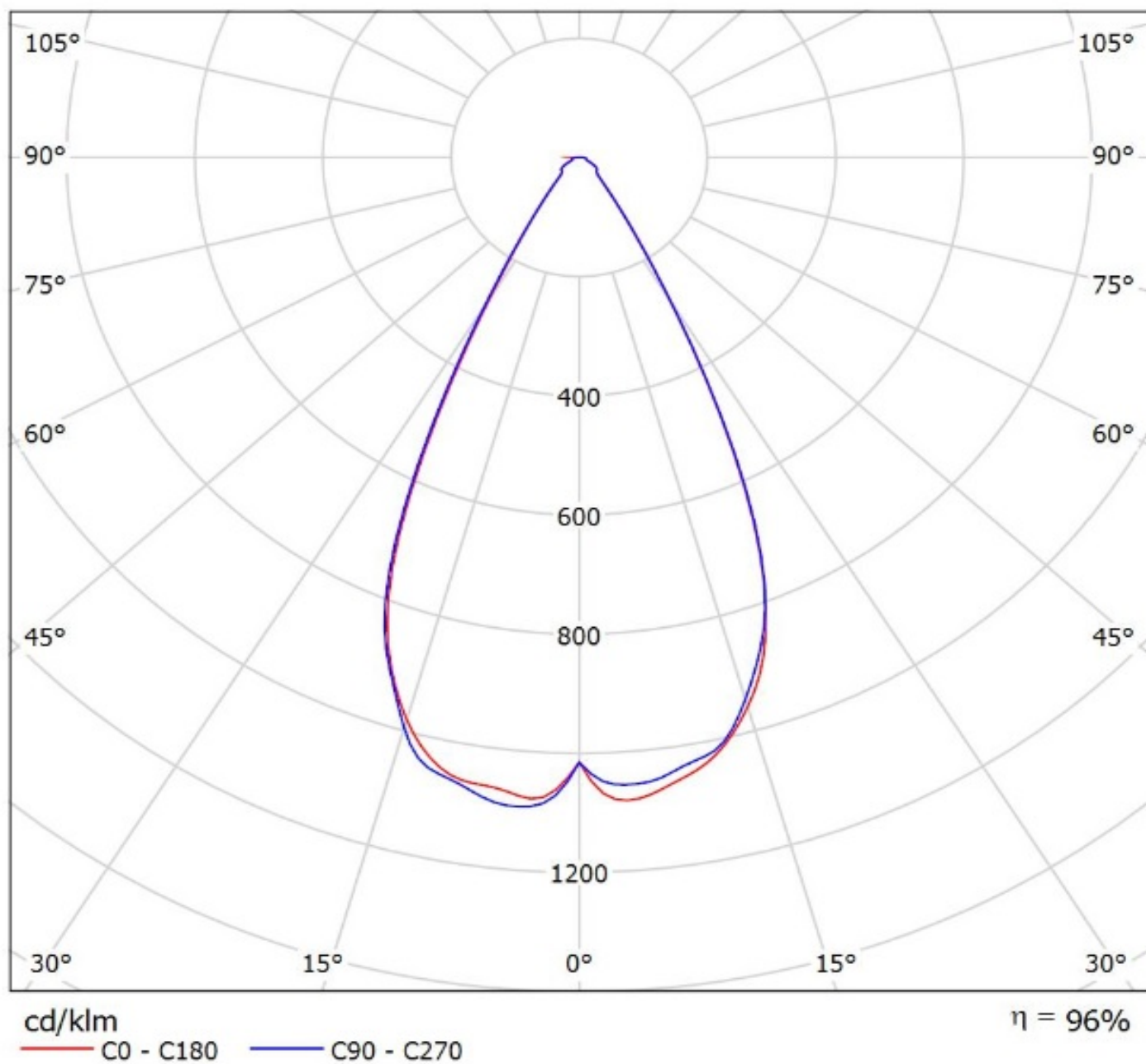


Luminaire: LEDiL Oy C12361_HB-2X2-W_(WICOP2_Z8Y19)

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



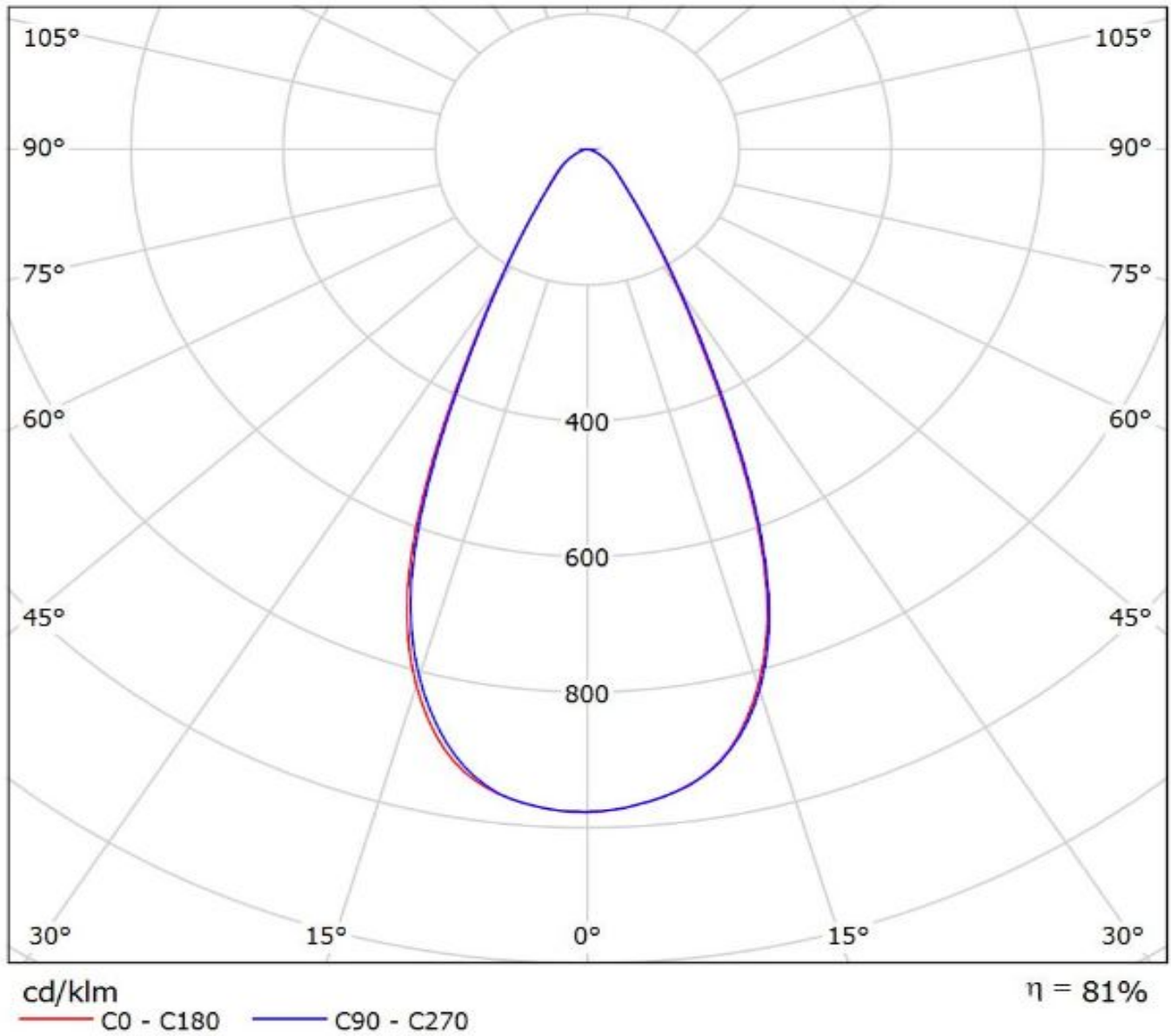
Luminaire: Ledil Oy C12361_HB-2X2-W_(Z5M2)_SIMULATED
Lamps: 1 x Seoul Z5M2 (SZ5-M2-W0-00)



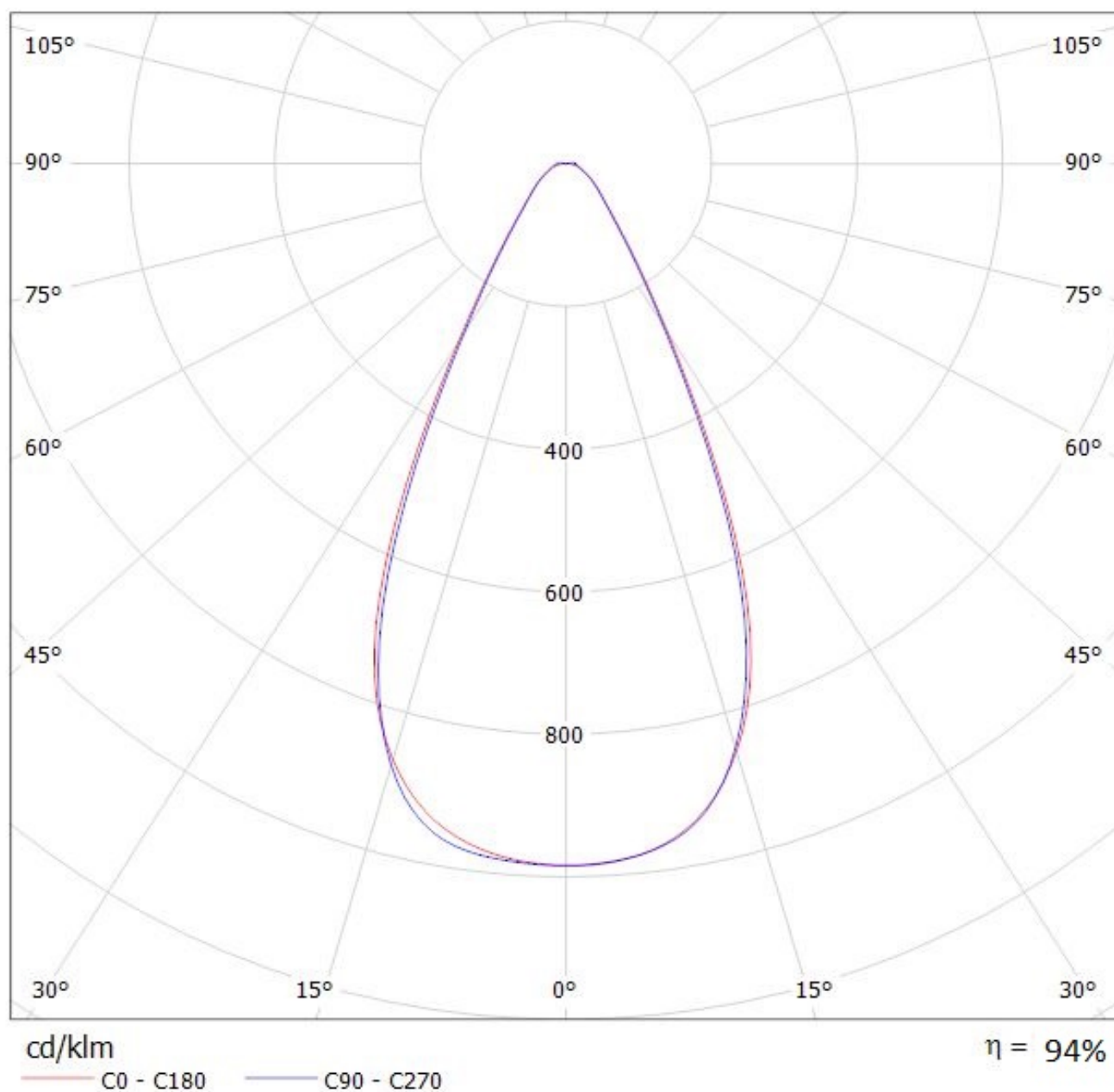
Ledil C12361_HB-2X2-W_(TL1L4) / LDC (Polar)

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

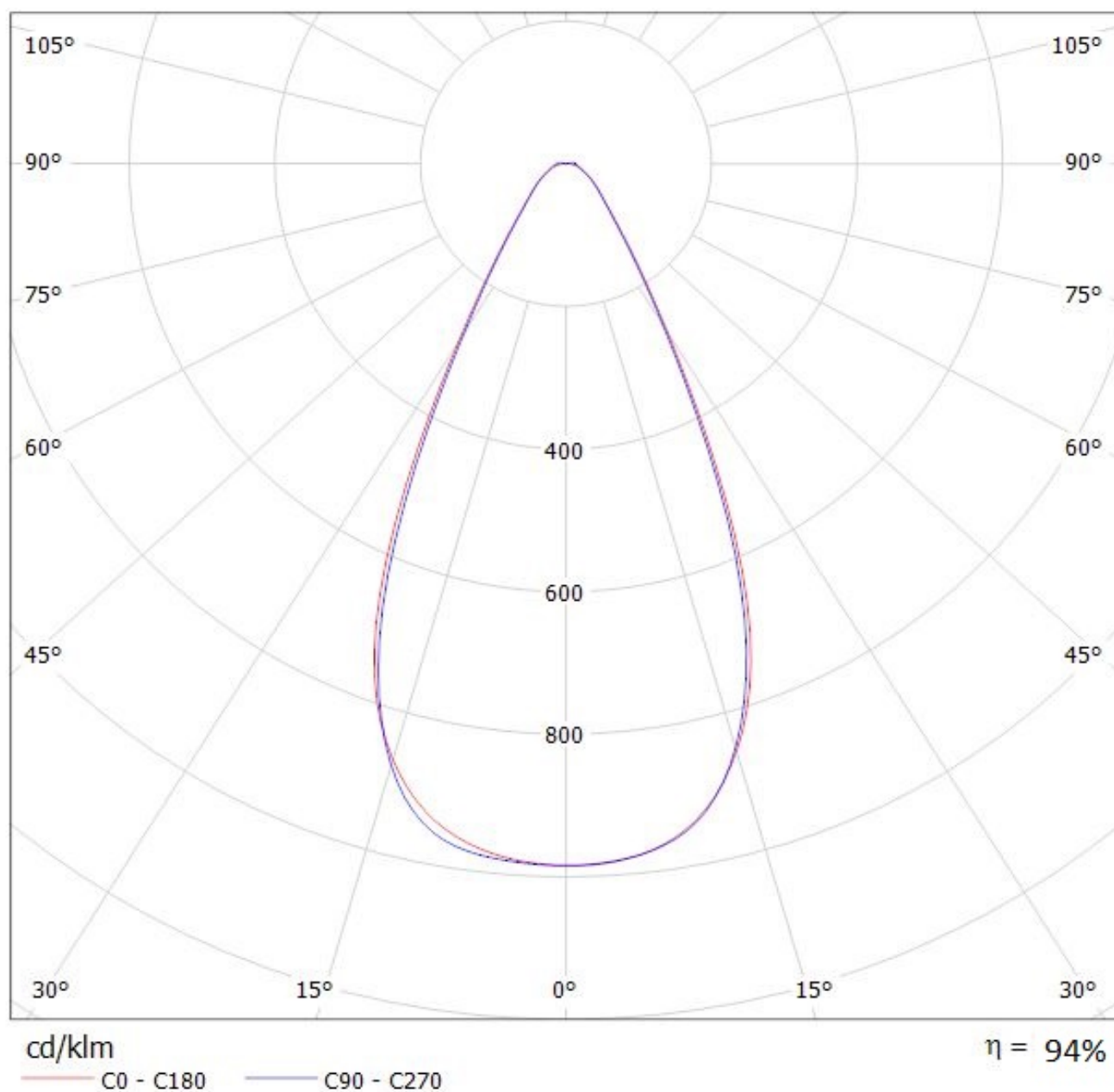
Lamps: 1 x Toshiba_TL1L4_2x2_(TL1L4-DW0)_472.639lm@250mA_CCT=6500K_P=2.9W_I=0.25A



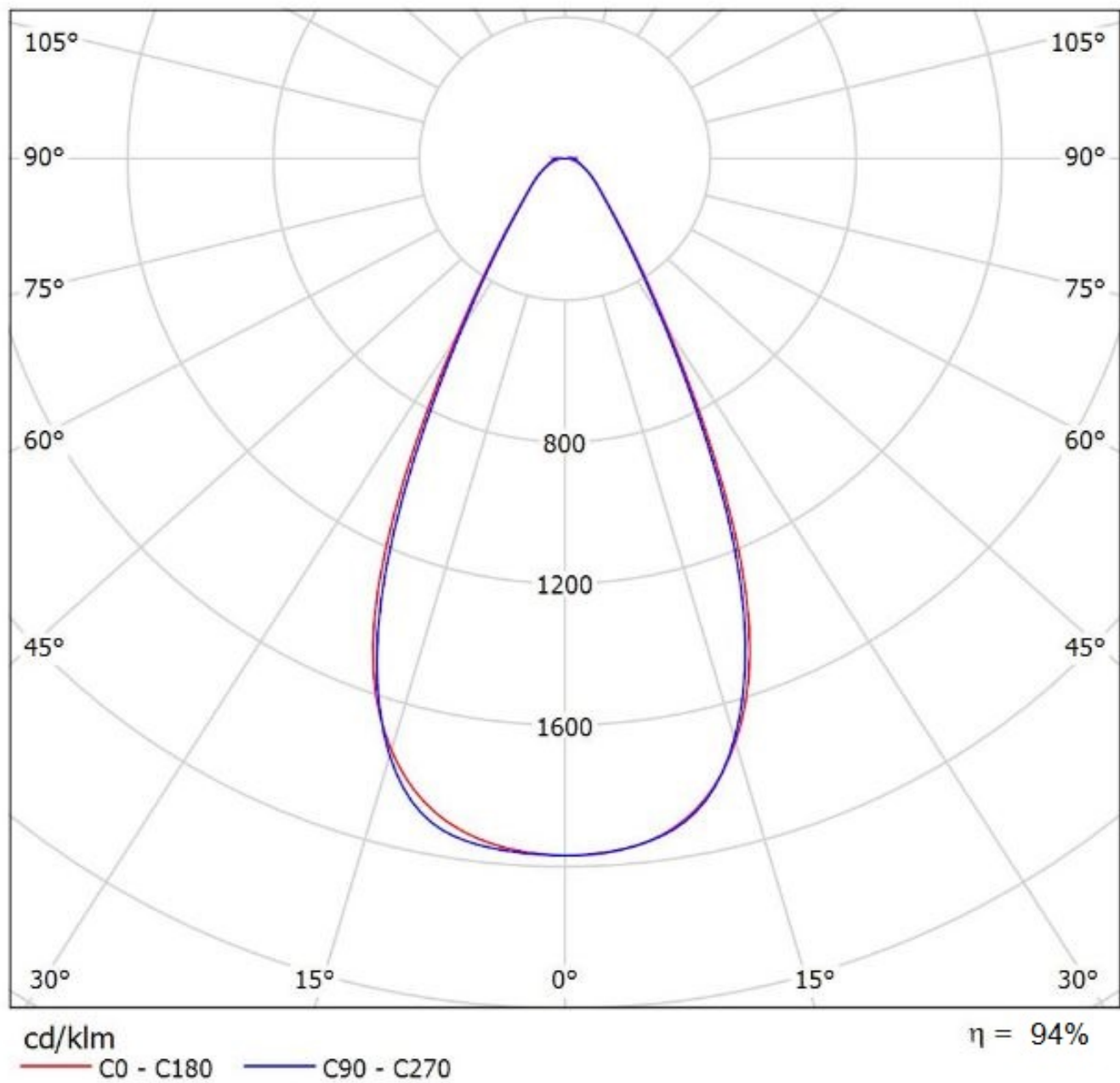
Luminaire: LEDiL Oy C12361_HB-2X2-W_(Tridonic_Module_RLE_G1)
Lamps: 1 x Tridonic_Module_RLE_G1_4576.03lm@700mA_P=32.0681W_I=0.700A



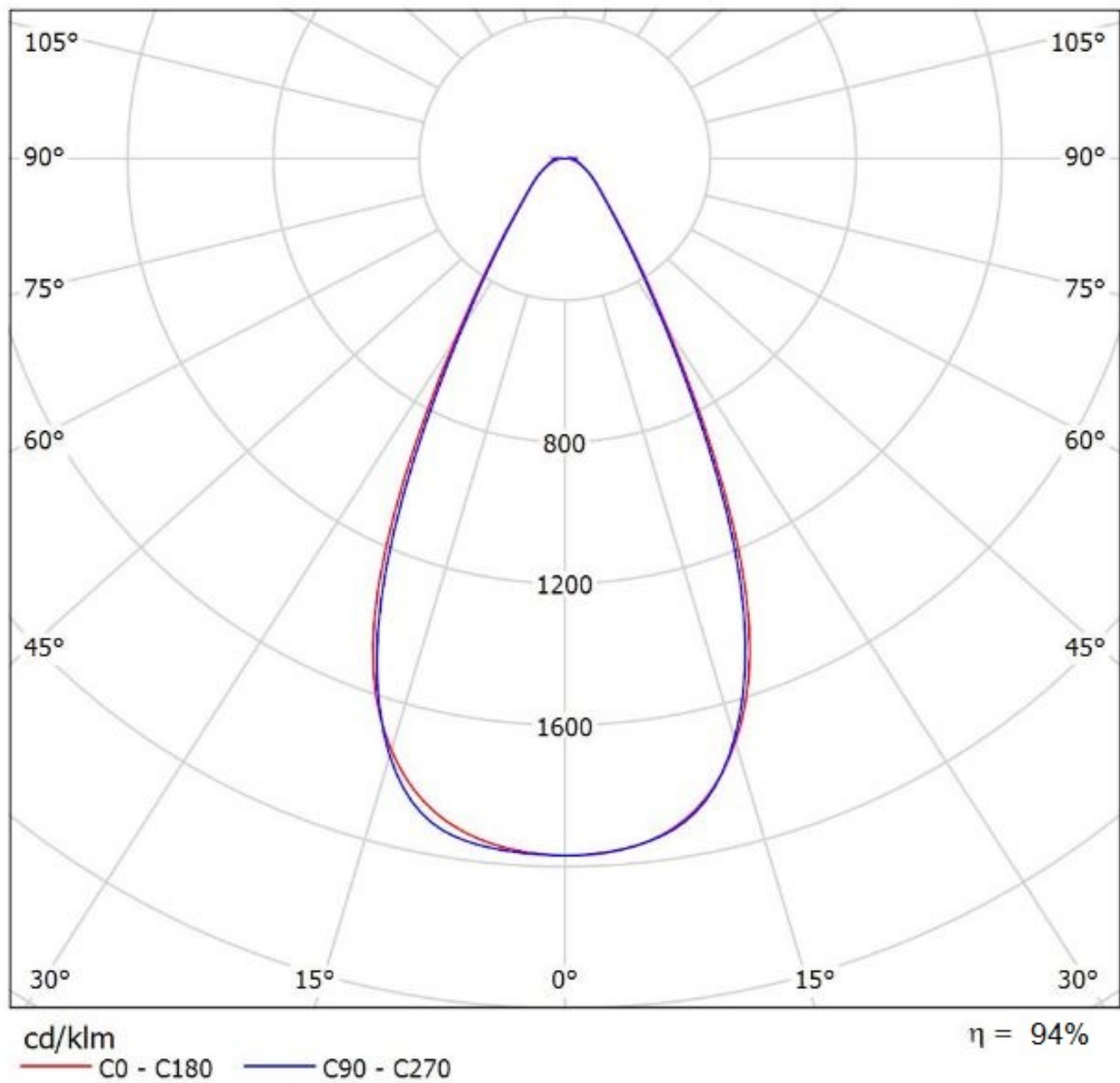
Luminaire: LEDiL Oy C12361_HB-2X2-W_(Tridonic_Module_RLE_G1)
Lamps: 1 x Tridonic_Module_RLE_G1_4576.03lm@700mA_P=32.0681W_I=0.700A



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



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.