

DETAILS

Product Number	C13749_HB-2X2-O
Family	HighBay
Type	Lens
Color	clear
Diameter	50 + 50 mm
Height	10,6 mm
Style	square
Optic Material	PMMA
Holder Material	
Fastening	glue, screw, pin
Status	production ready
ROHS Compliant	Yes
Date Updated	21/04/2016



OPTICAL PROPERTIES

LED	Viewing	Light	Efficiency	cd/lm	Connector
	Angle	Beam			
XP-G2	27+112 deg	Oval	94 %	1.200	-
XM-L	29+109 deg	Oval	94 %	0.980	-
XM-L2	30+106 deg	Oval	94 %	1.000	-
XP-G	26+115 deg	Oval	94 %	1.130	-
XP-L	29+117 deg	Oval	94 %	0.890	-
XQ-E HI	sim: 96+14	Oval	93 %	1.700	-
XHP35 HD	sim: 102+35	Oval	sim: 91 %	sim: 0.910	-
XHP35 HI	sim: 101+27	Oval	sim: 94 %	sim: 1.200	-
XP-G3	sim: 103+29	Oval	sim: 94 %	sim: 1.100	-
XP-L2	28+117 deg	Oval	94 %	0.930	-
H35C1 (LEMWA33)	23+110 deg	Oval	94 %	1.200	-
LUXEON Rebel ES	25+106 deg	Oval	94 %	1.200	-
LUXEON T	26+110 deg	Oval	94 %	1.200	-
LUXEON R	25+105 deg	Oval	94 %	1.240	-
LUXEON MZ	28+103 deg	Oval	94 %	1.100	-
LUXEON TX	24+118 deg	Oval	94 %	1.080	-
LUXEON 5050	29+114 deg	Oval	94 %	0.940	-
NVSxx19A	24+105 deg	Oval	94 %	1.220	-
NVSxx19B/NVSxx19C	26+108 deg	Oval	94 %	1.200	-
NCSxx19B	23+113 deg	Oval	94 %	1.400	-
NWSx229A	27+118 deg	Oval	94 %	1.000	-
NVSW3x9A	25+134 deg	Oval	93 %	0.400	-
NVSxE21A	17+125 deg	Oval	94 %	1.680	-
NVSW3x9A	24+119 deg	Oval	94 %	1.100	-
Oslon Square PC	25+124 deg	Oval	91 %	1.070	-



PRODUCT DATASHEET

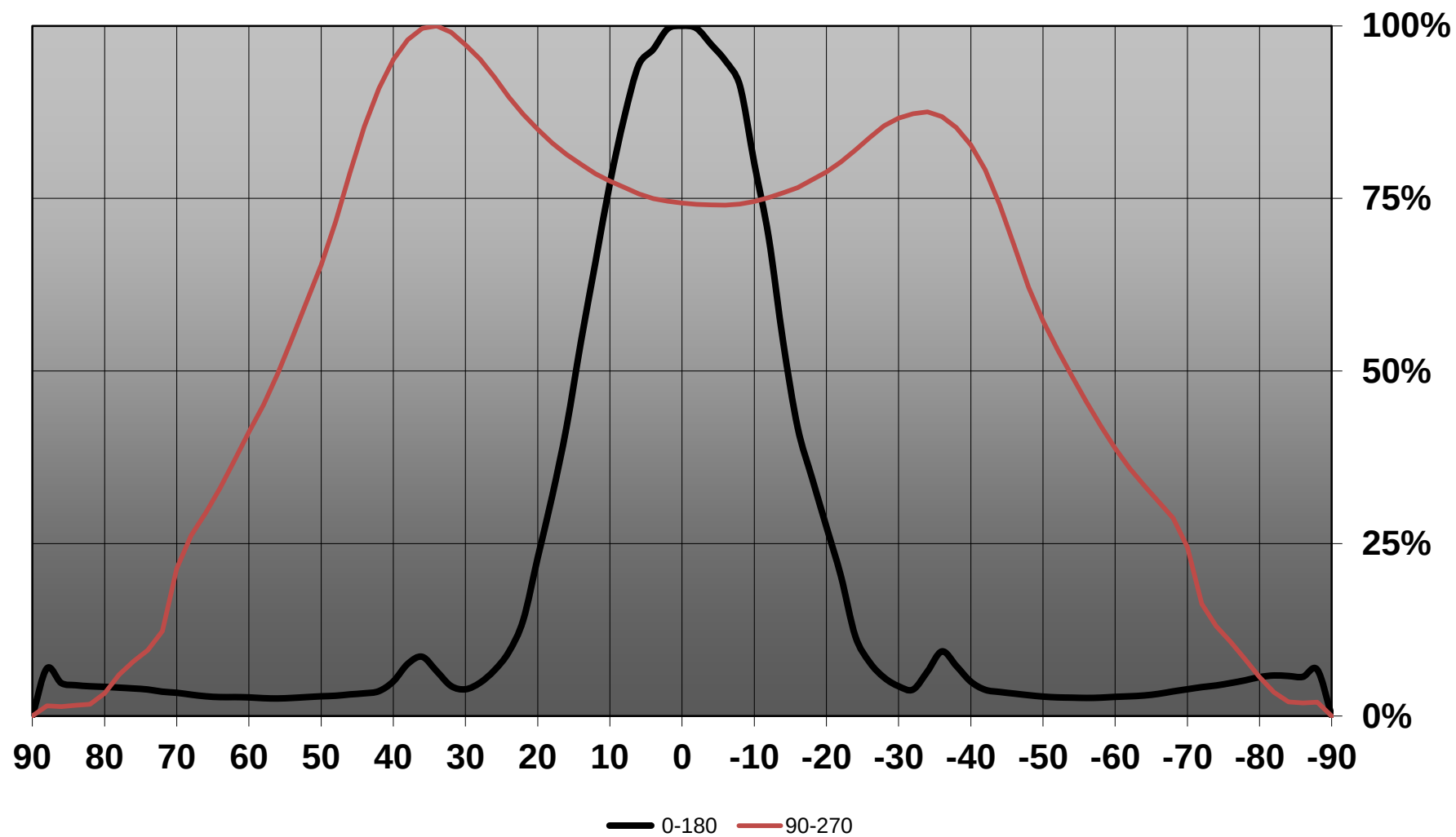
HighBay series

last update 21/4/2016

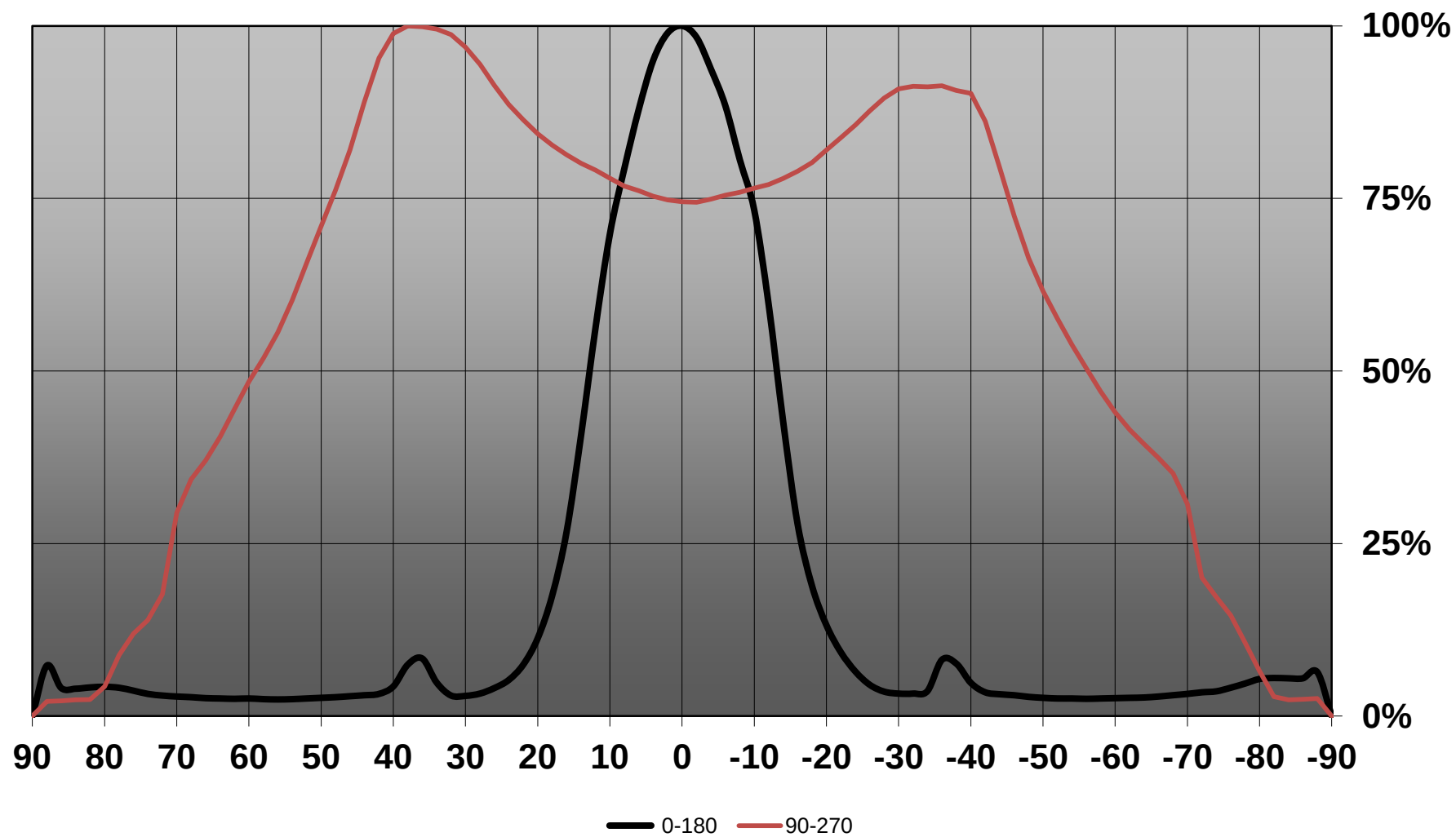
OPTICAL PROPERTIES

LED	Viewing Angle	Light Beam	Efficiency	cd/lm	Connector
Duris S8	sim: 95+25	Oval	sim: 93 %	sim: 0.950	-
Duris P8	sim: 99+19	Oval	sim: 94 %	sim: 1.300	-
Fortimo FastFlex LED board 2x8 DA G4	21+108 deg	Oval	94 %	1.300	-
Fortimo FastFlex LED board 2x8 DAX G4	sim: 103+29	Oval	sim: 94 %	sim: 1.100	-
LH351Z	26+117 deg	Oval	94 %	1.100	-
LH351B	23+113 deg	Oval	94 %	1.210	-
LH351D	27+116 deg	Oval	94 %	0.970	-
LH351C	24+111 deg	Oval	94 %	1.100	-
Z5M1/Z5M2	sim: 22+97	Oval	sim: 94 %	sim: 1.200	-
TL1L4	24+119 deg	Oval	89 %	1.100	-
RLE G1 49x223mm 4000lm xxx EXC OT	Ø3+104 deg	Oval	94 %	1.300	-
RLE G1 49x245mm 4000lm xxx EXC OT	Ø3+104 deg	Oval	94 %	1.300	-
RLE G1 49x121mm 2000lm xxx EXC OT	Ø3+104 deg	Oval	94 %	1.300	-
RLE G1 49x133mm 2000lm xxx EXC OT	Ø3+104 deg	Oval	94 %	1.300	-

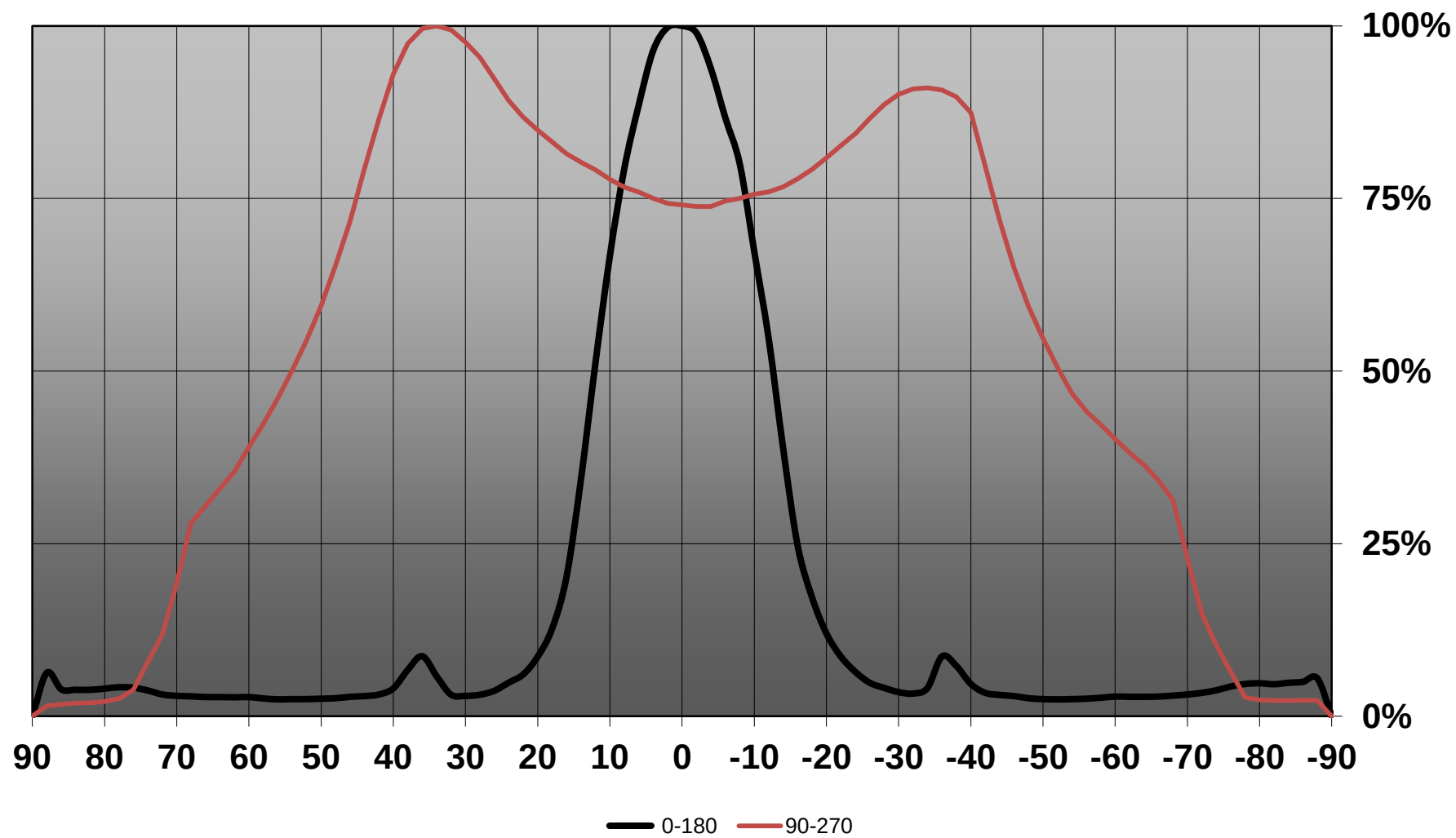
Relative intensity of C13749_HB-2X2-O_(XM-L)



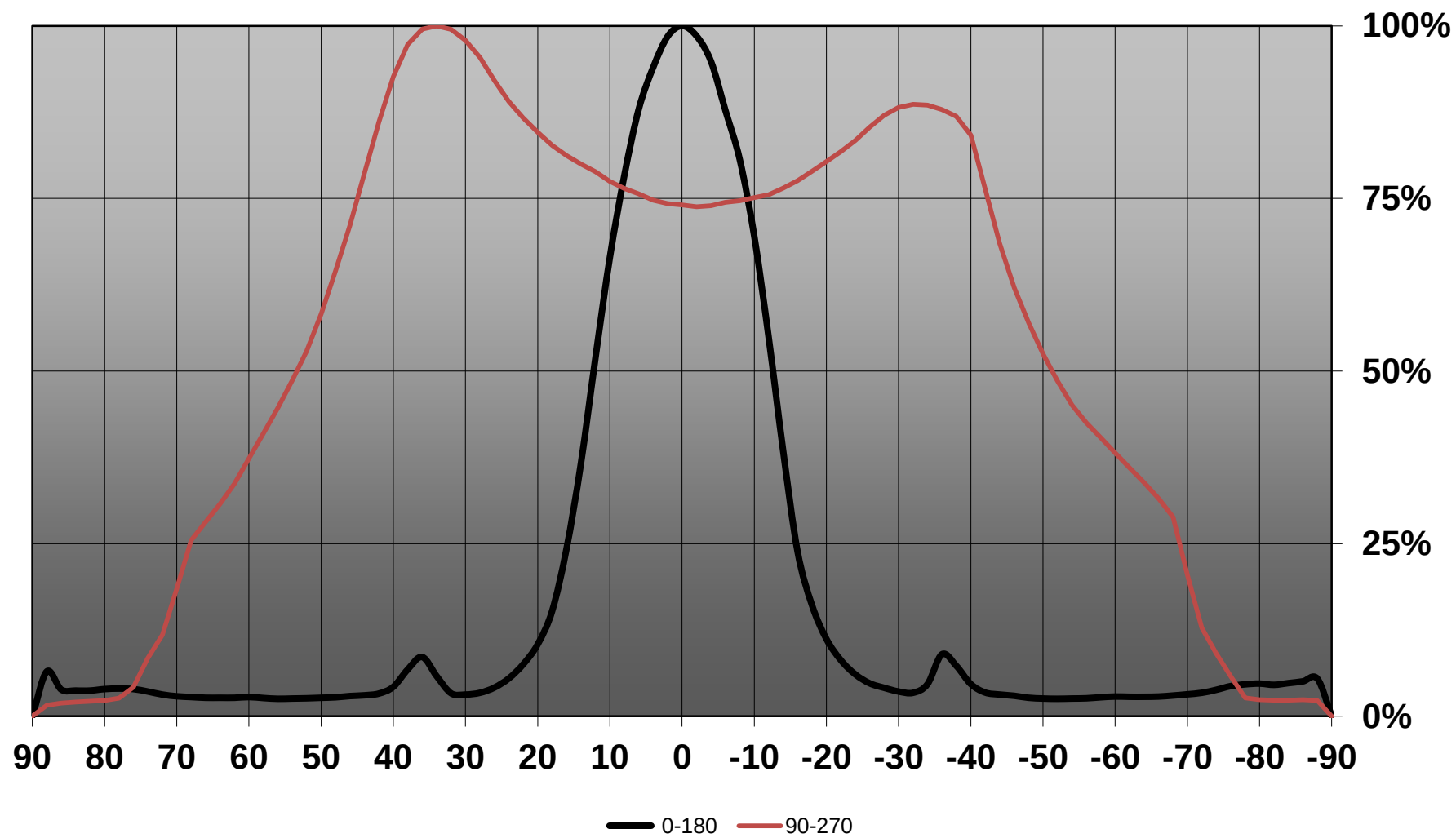
Relative intensity of C13749_HB-2X2-O_(XP-G)



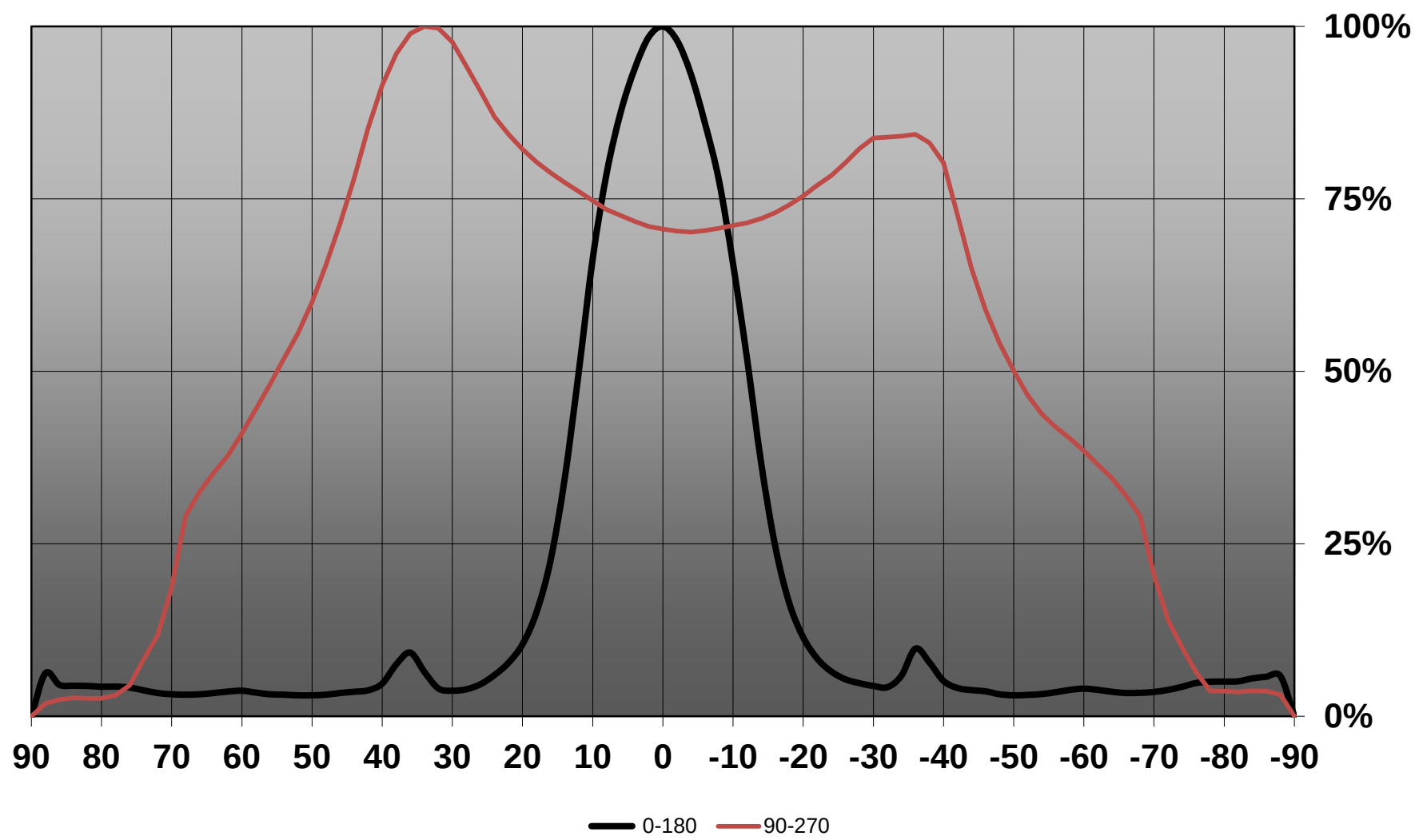
Relative intensity of C13749_HB-2X2-O_(Rebel ES)



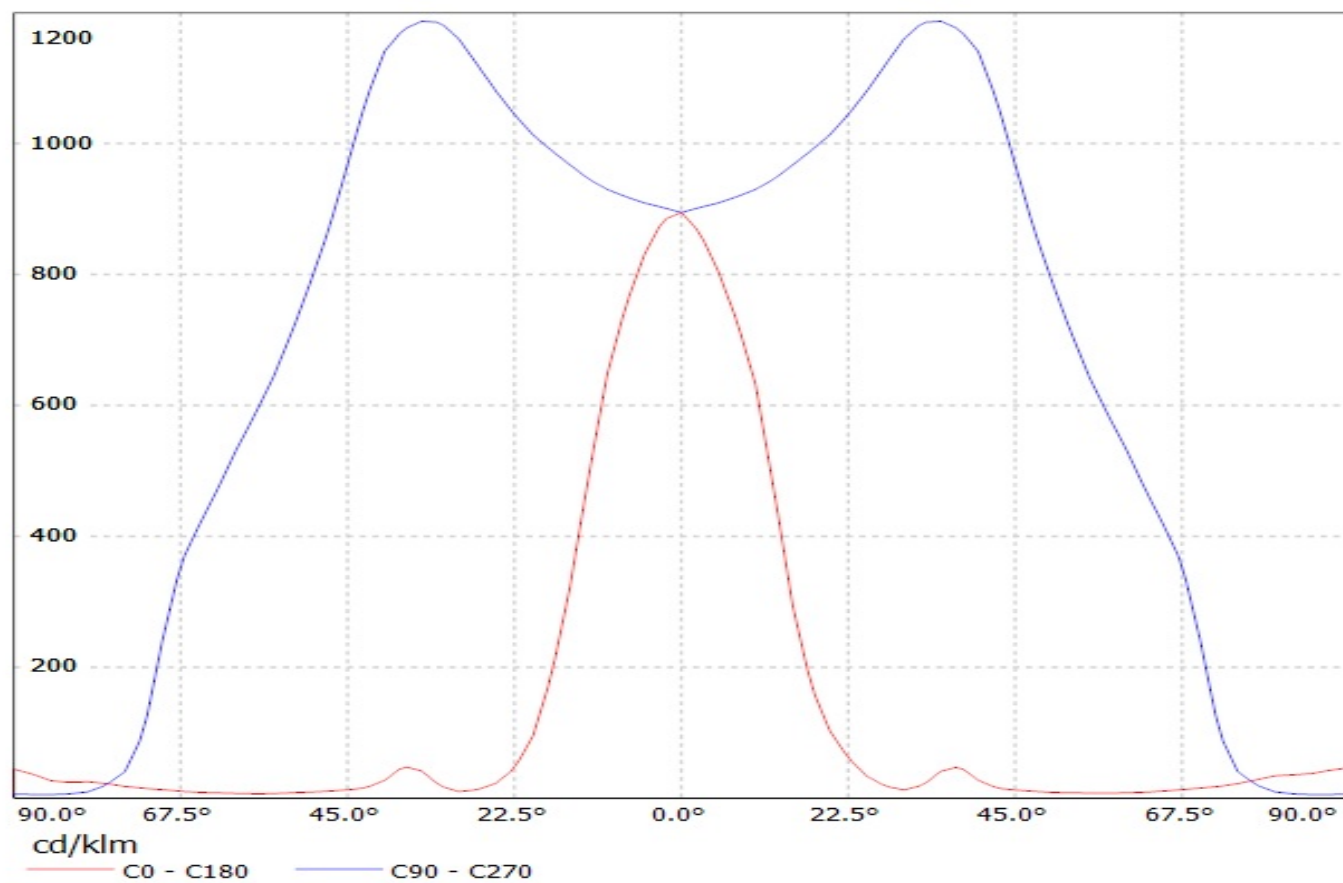
Relative intensity of C13749_HB-2X2-O_(Luxeon R)



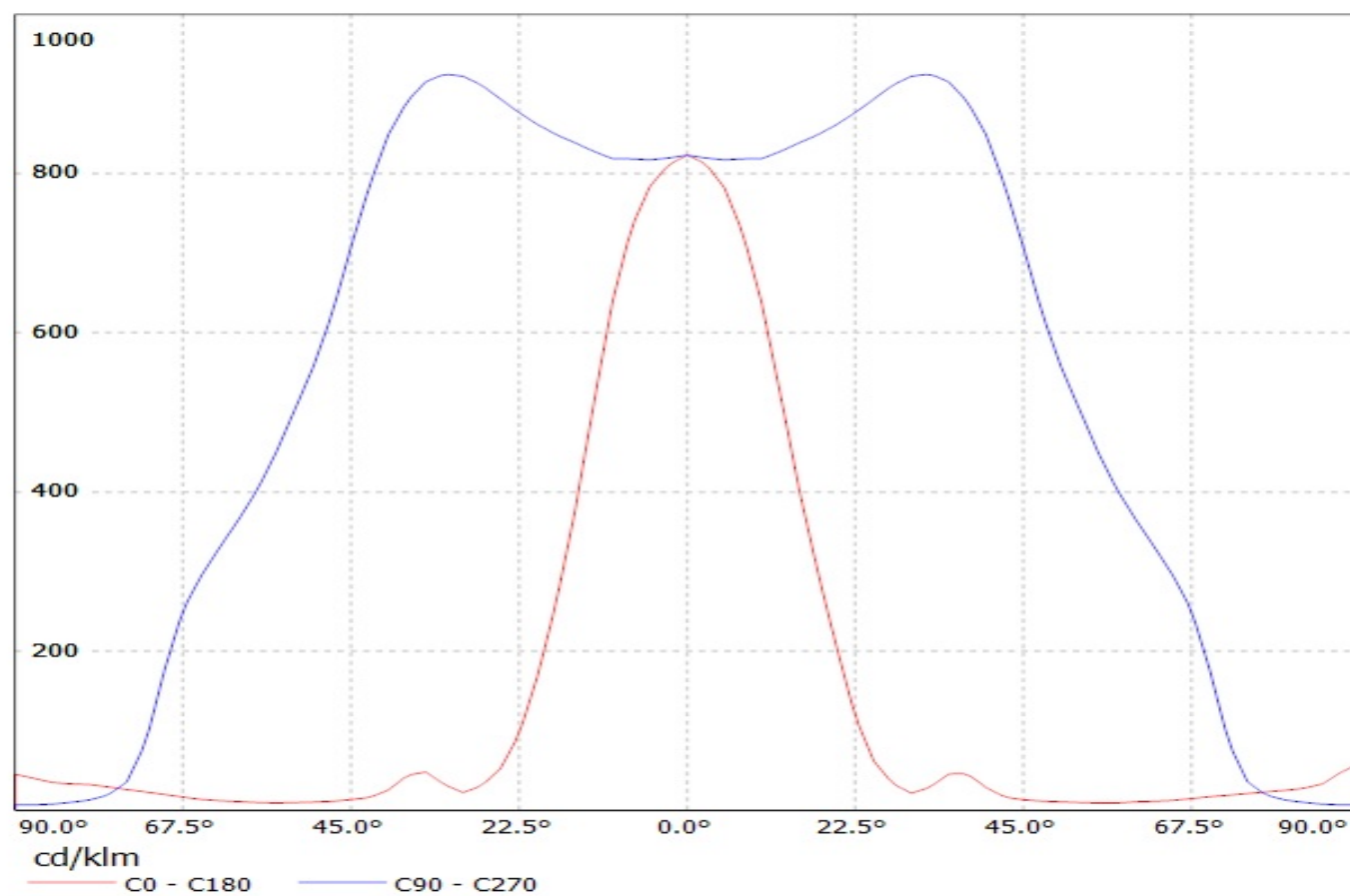
Relative intensity of C13749_HB-2X2-O_(NVSxx19A)



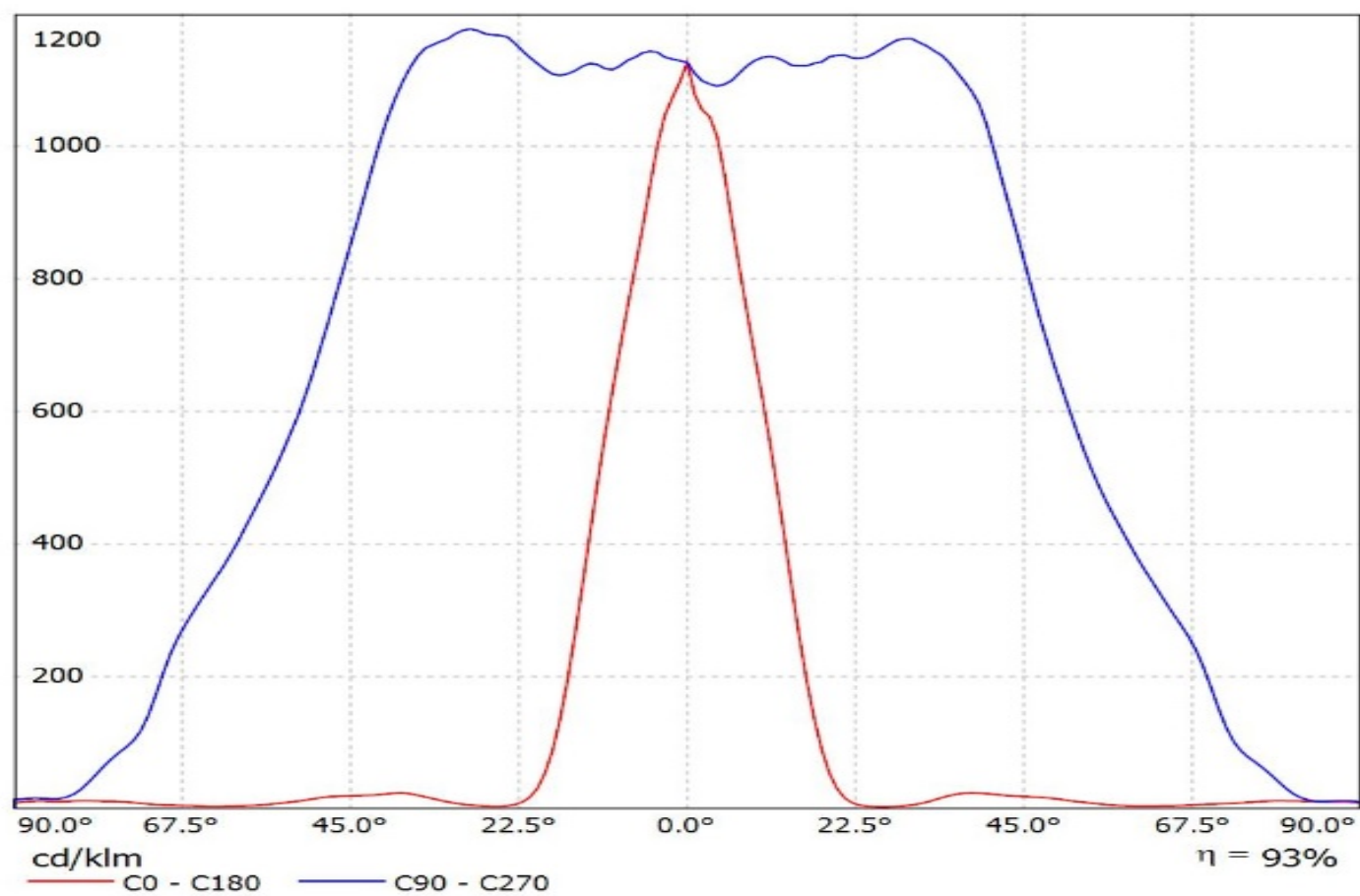
Luminaire: LEDil Oy C13749_HB-2X2-O_(XP-G2) Efficiency=94%
Lamps: 1 x Cree XP-G2 (XPGBWT-L1-000-00G51) 411lm @ 250mA CCT=7200K P=2.9W I=250mA



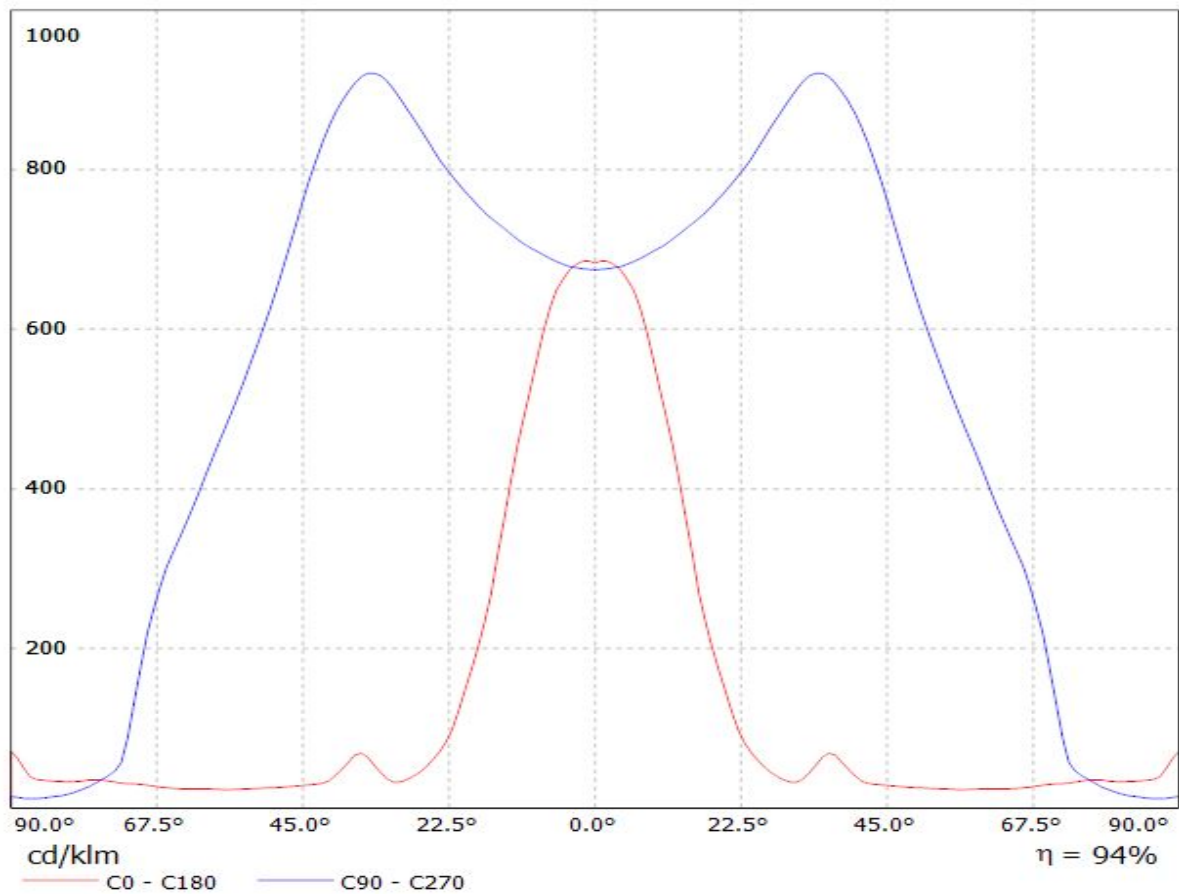
Luminaire: LEDil Oy C13749_HB-2X2-O_(XM-L2) Efficiency=94%
Lamps: 1 x Cree XM-L2 (XMLBWT-0-7B4-T30-0L-0001) 356lm @ 250mA CCT=3200K P=2.8W I=250mA



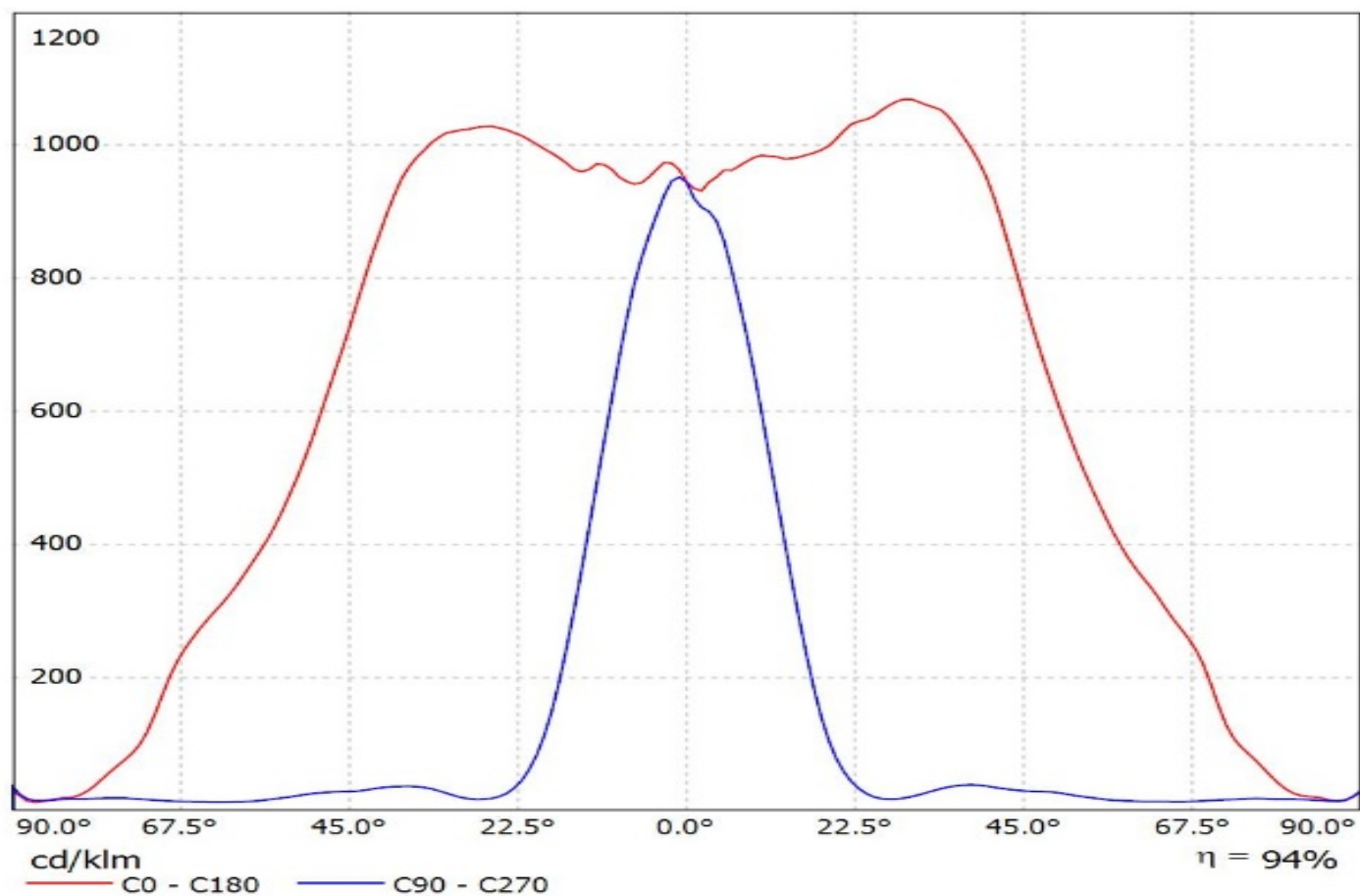
Luminaire: Ledil Oy C13749_HB-2X2-O_(XP-G)_SIMULATED
Lamps: 1 x Cree XP-G



Luminaire: LEDiL Oy C13749_HB-2X2-O_(XP-L)
Lamps: 1 x CREE_XP-L_2x2_(XPLAWT-0-1B0-V40-00-0001)_490lm@250mA_CCT=7600K_P=2.79963W_I=249.9mA

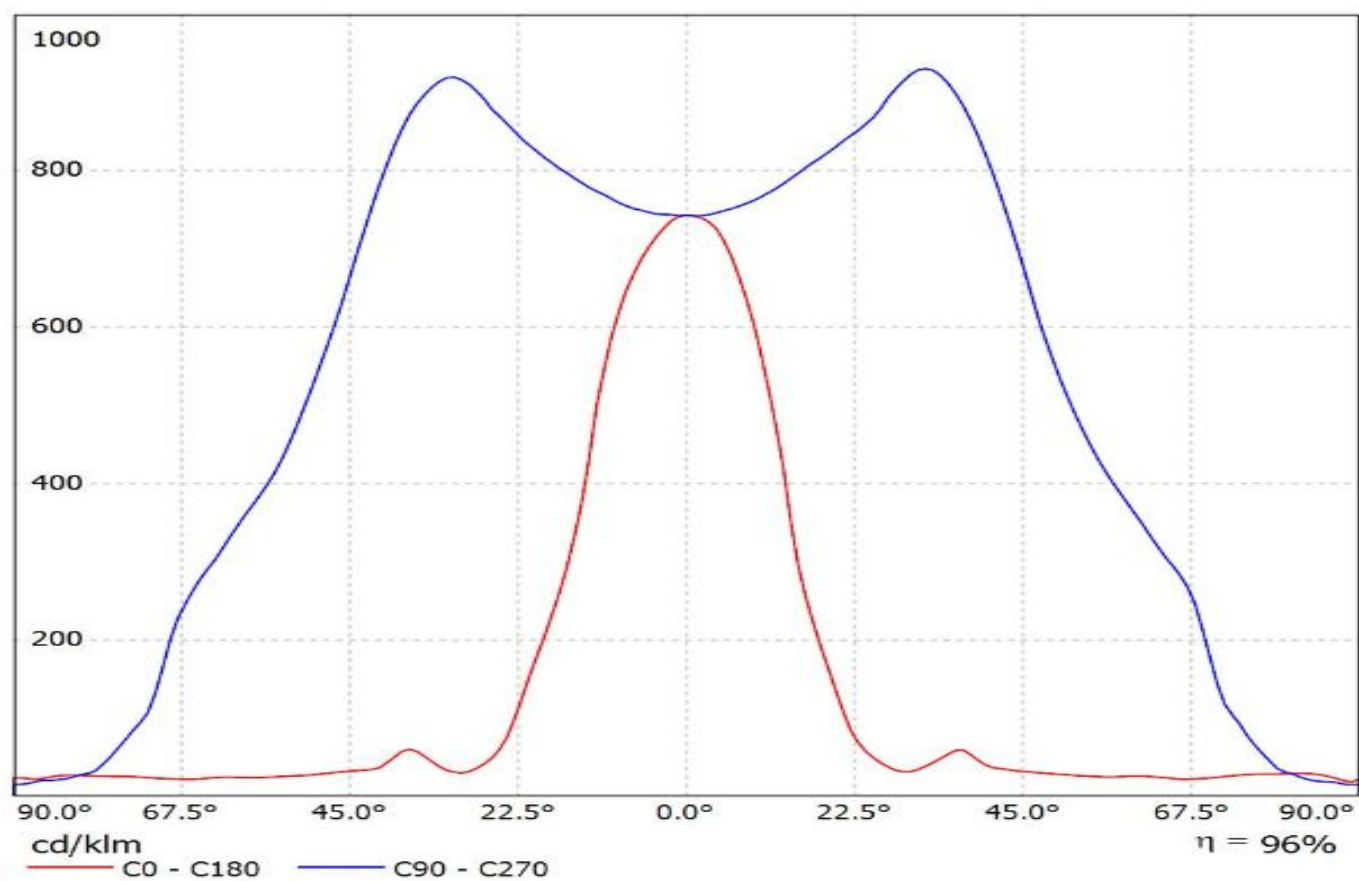


Luminaire: Ledil Oy C13749_HB-2X2-O_(XP-G3)_SIMULATED C13749_HB-2X2-O_(XP-G3)_SIMULATED
Lamps: 1 x Cree XP-G3 - 1.00 W

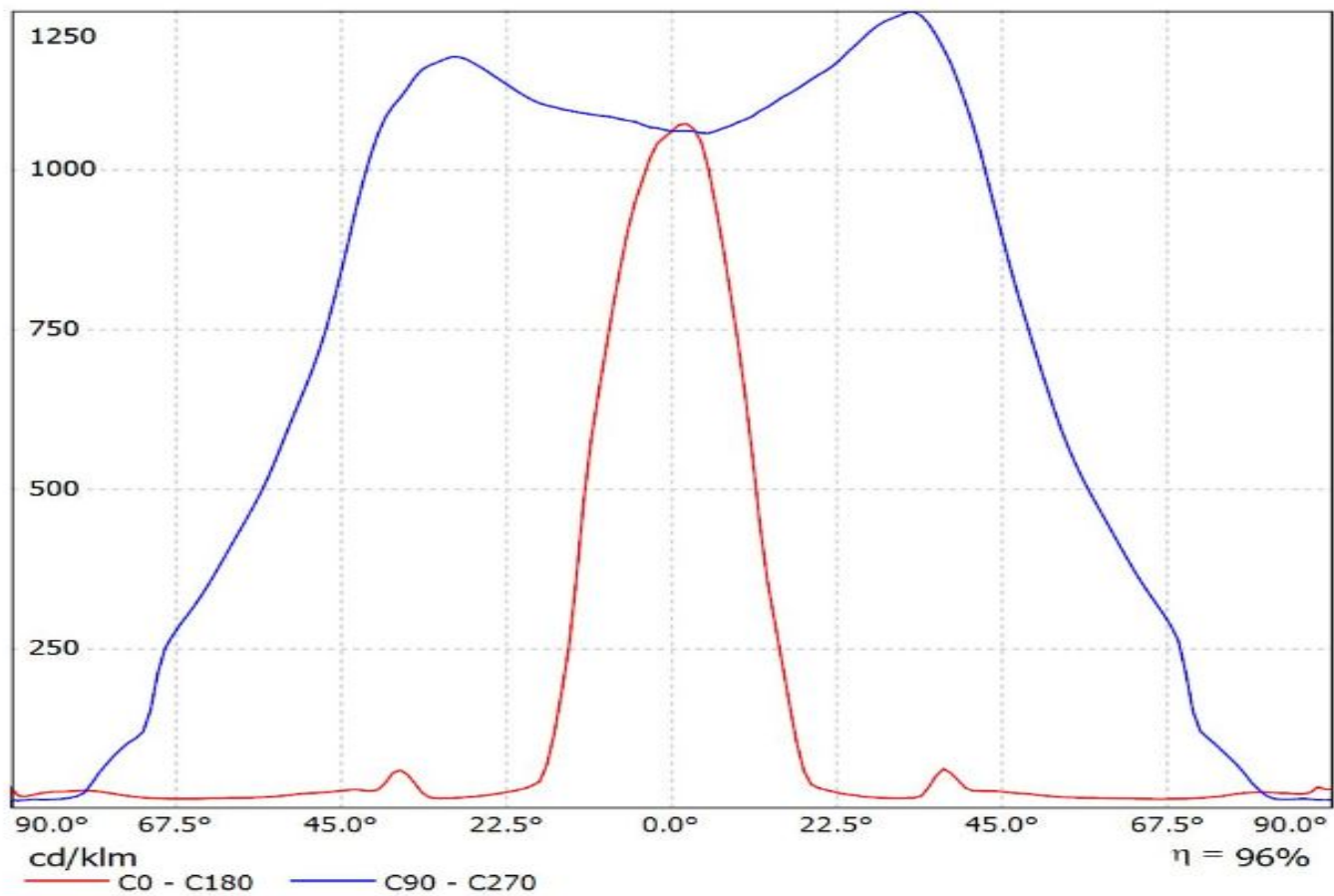


Luminaire: Ledil C13749_HB-2X2-O_(XP-L2)

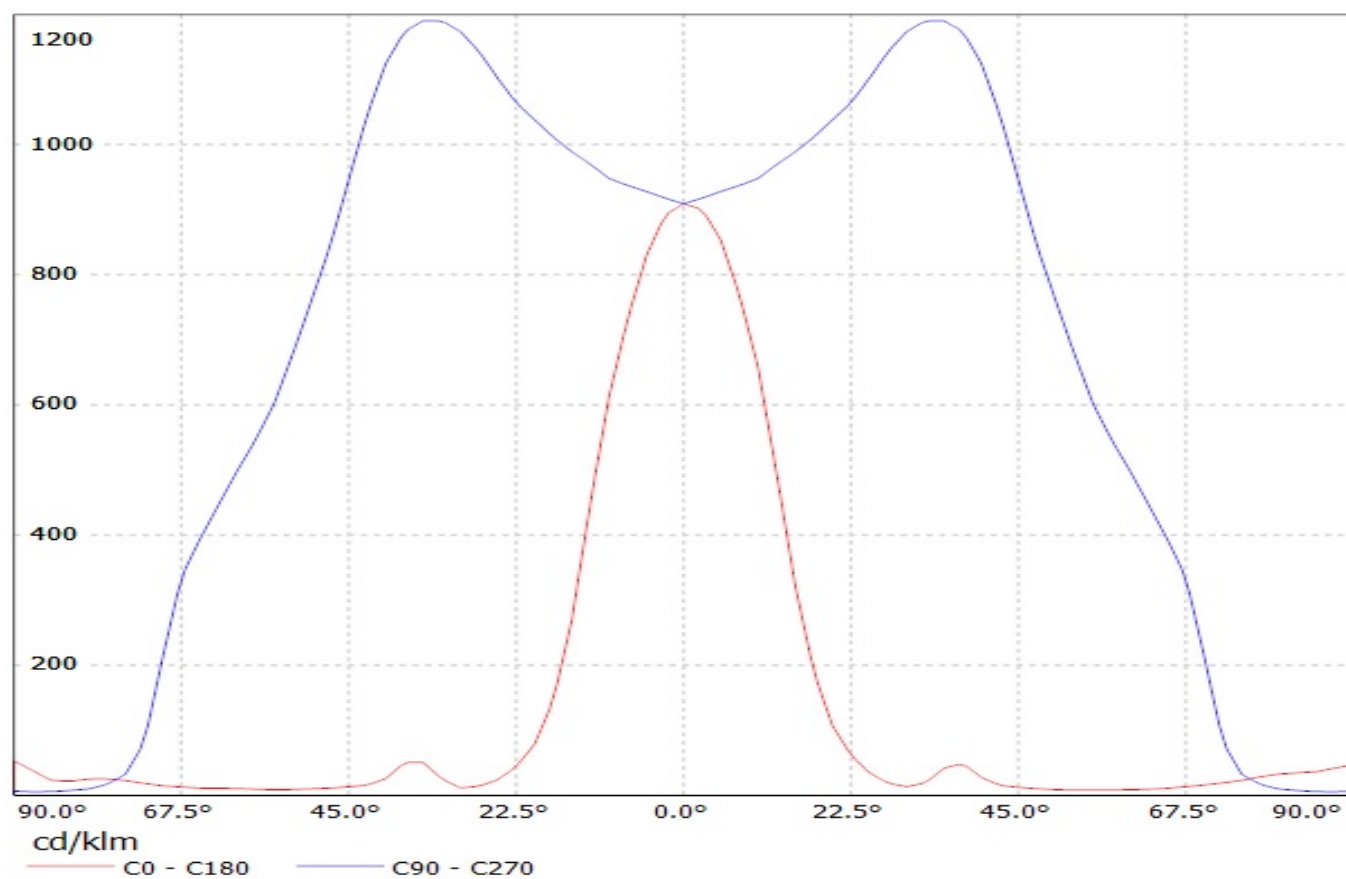
Lamps: 1 x Cree_XP-L2_2x2_(XPLBWT-00-0000-000BV50E3)550.93lm@250mA_P=2.7815W_I=0.25A



Luminaire: Ledil C13749_HB-2x2-O_(H35C1)
Lamps: 1 x LG_H35C1_2x2_477.216lm@250mA_P=2.87475W_I=0.250A

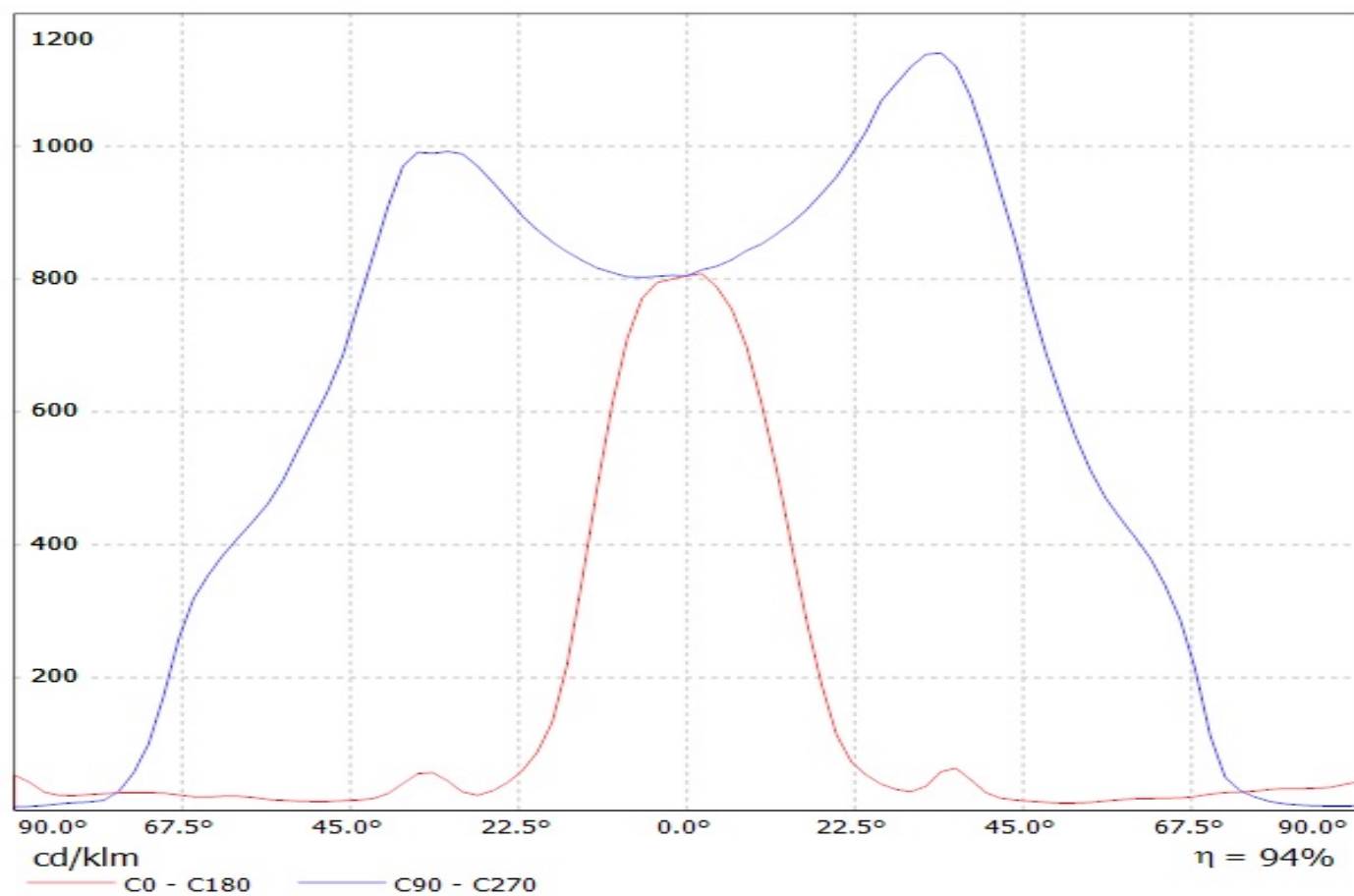


Luminaire: LEDil Oy C13749_HB-2X2-O_(Luxeon_T) Efficiency=94%
Lamps: 1 x Luxeon T (LXH8-FW30-3) 289lm @ 250mA CCT=3200K P=2.8W I=250mA

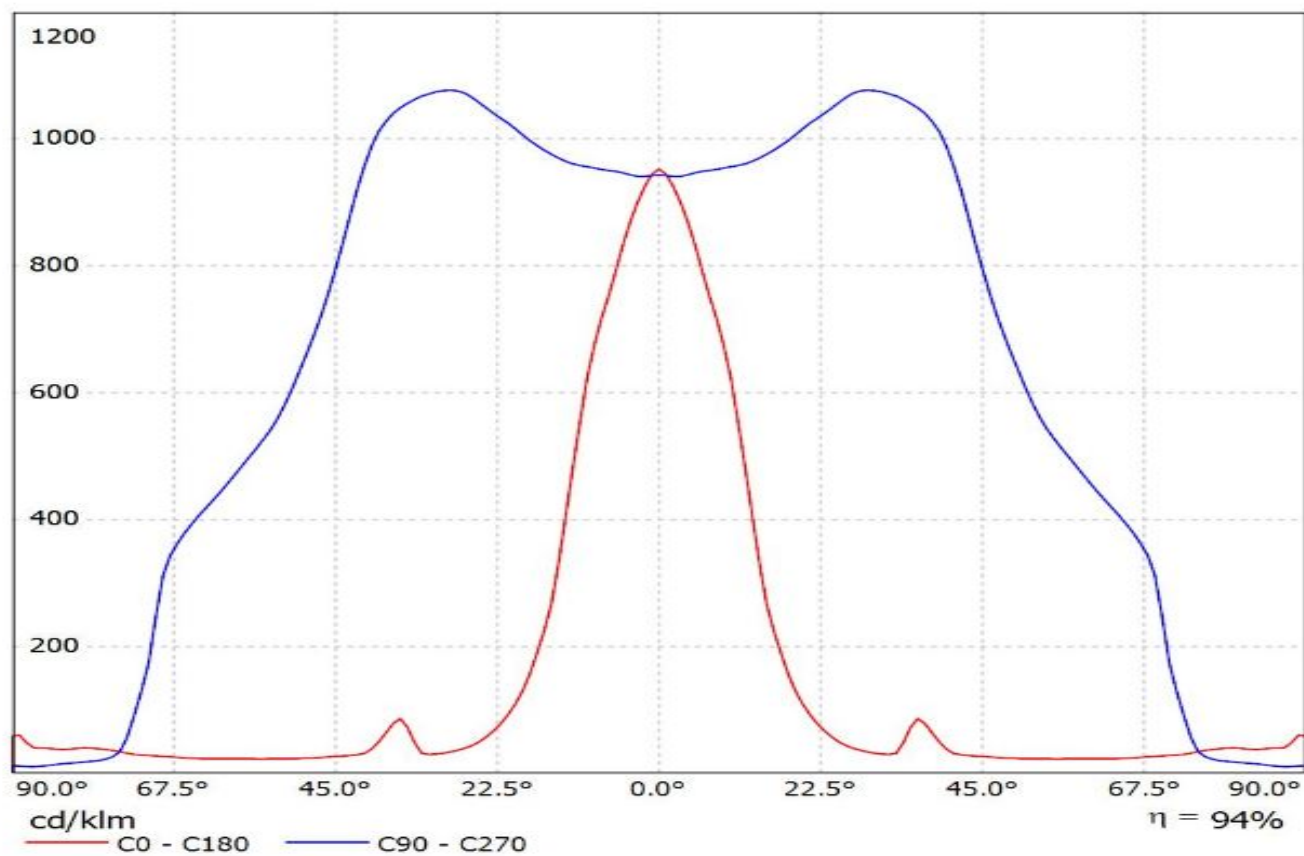


Luminaire: LEDil Oy C13749_HB-2X2-O_(Luxeon_MZ)

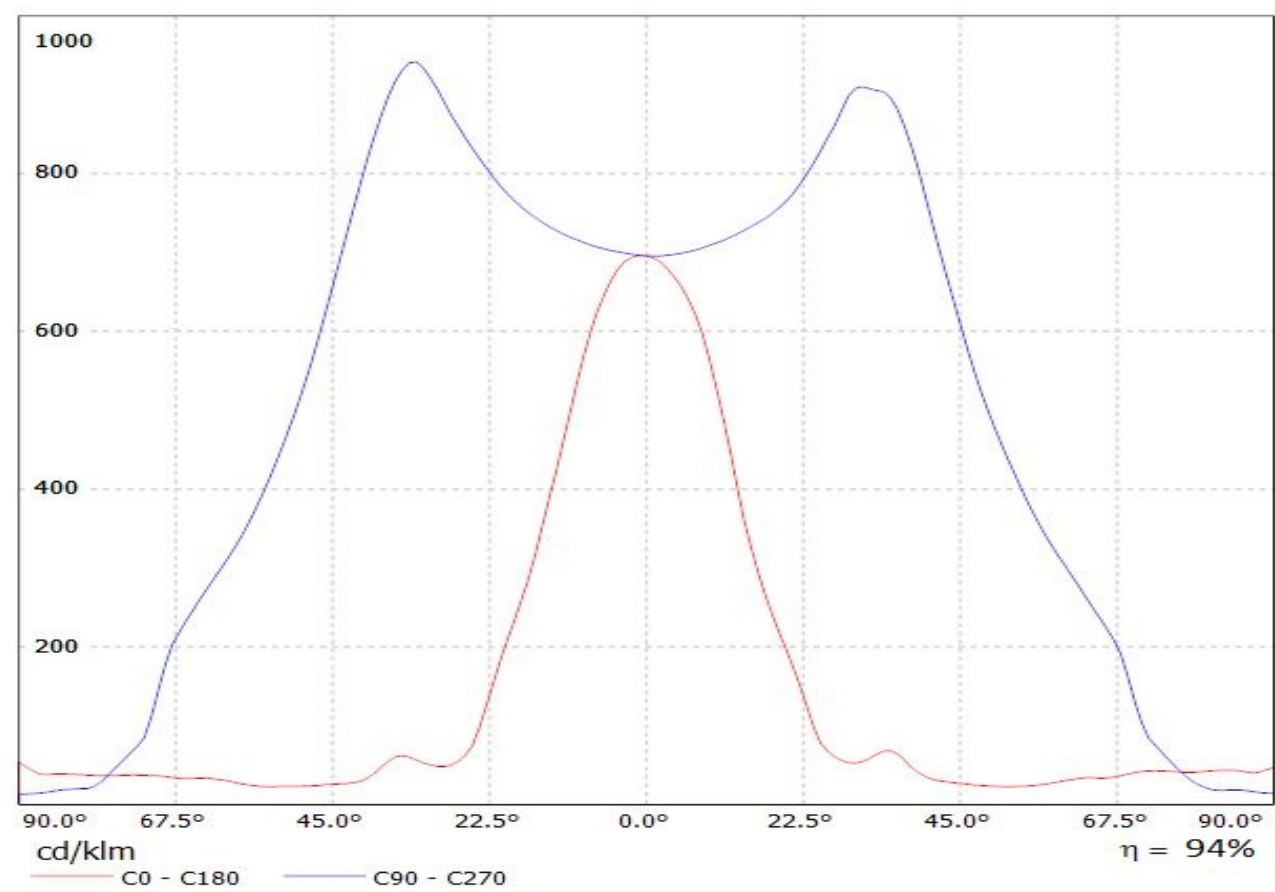
Lamps: 1 x Philips Lumileds Luxeon MZ (413.59lm @ 250mA) P=2.7W I=250mA



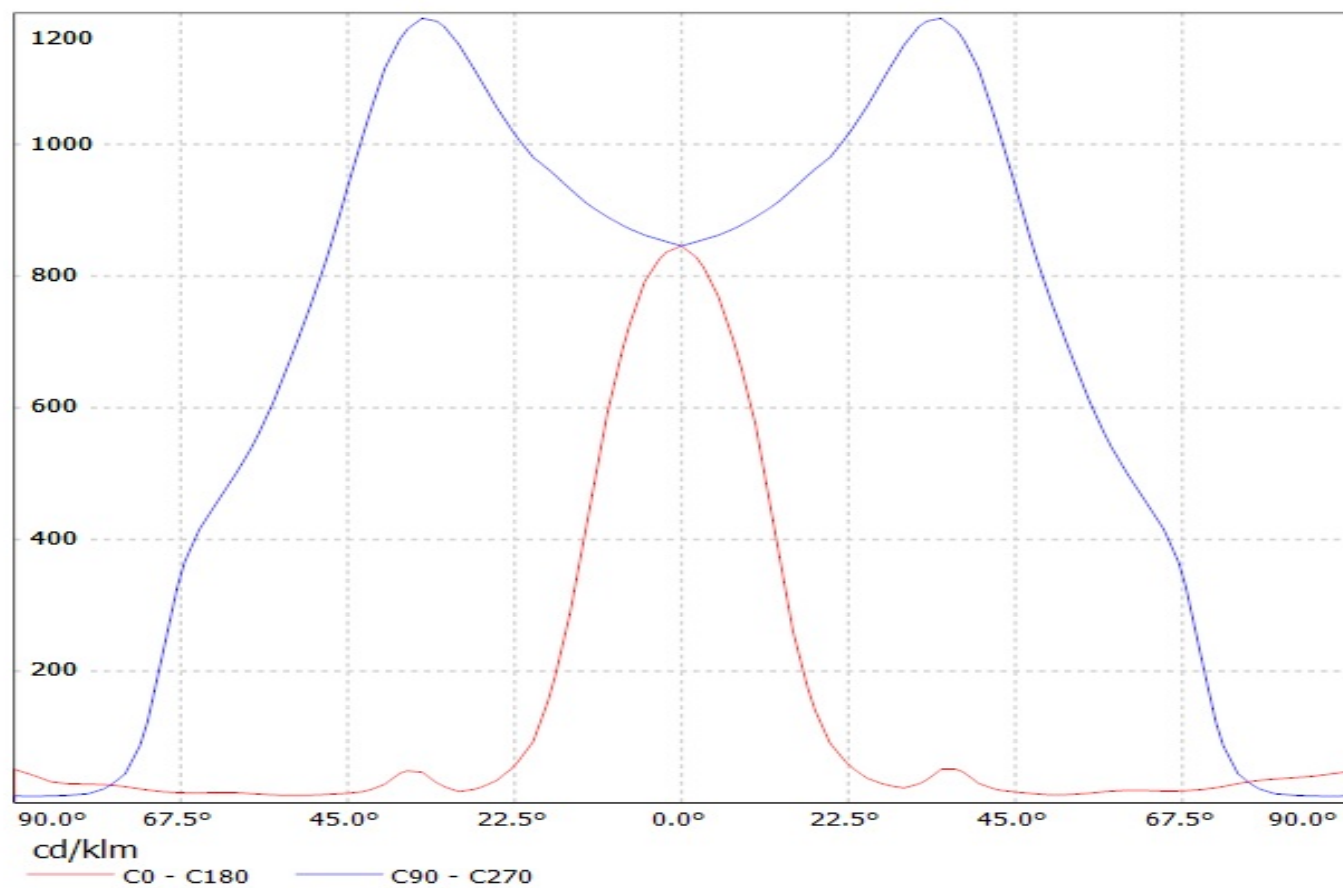
Luminaire: LEDiL Oy C13749_HB-2X2-O_(Luxeon_TX)
Lamps: 1 x Luxeon_TX_2x2_305lm@250mA_P=2.79451W_I=249.8mA



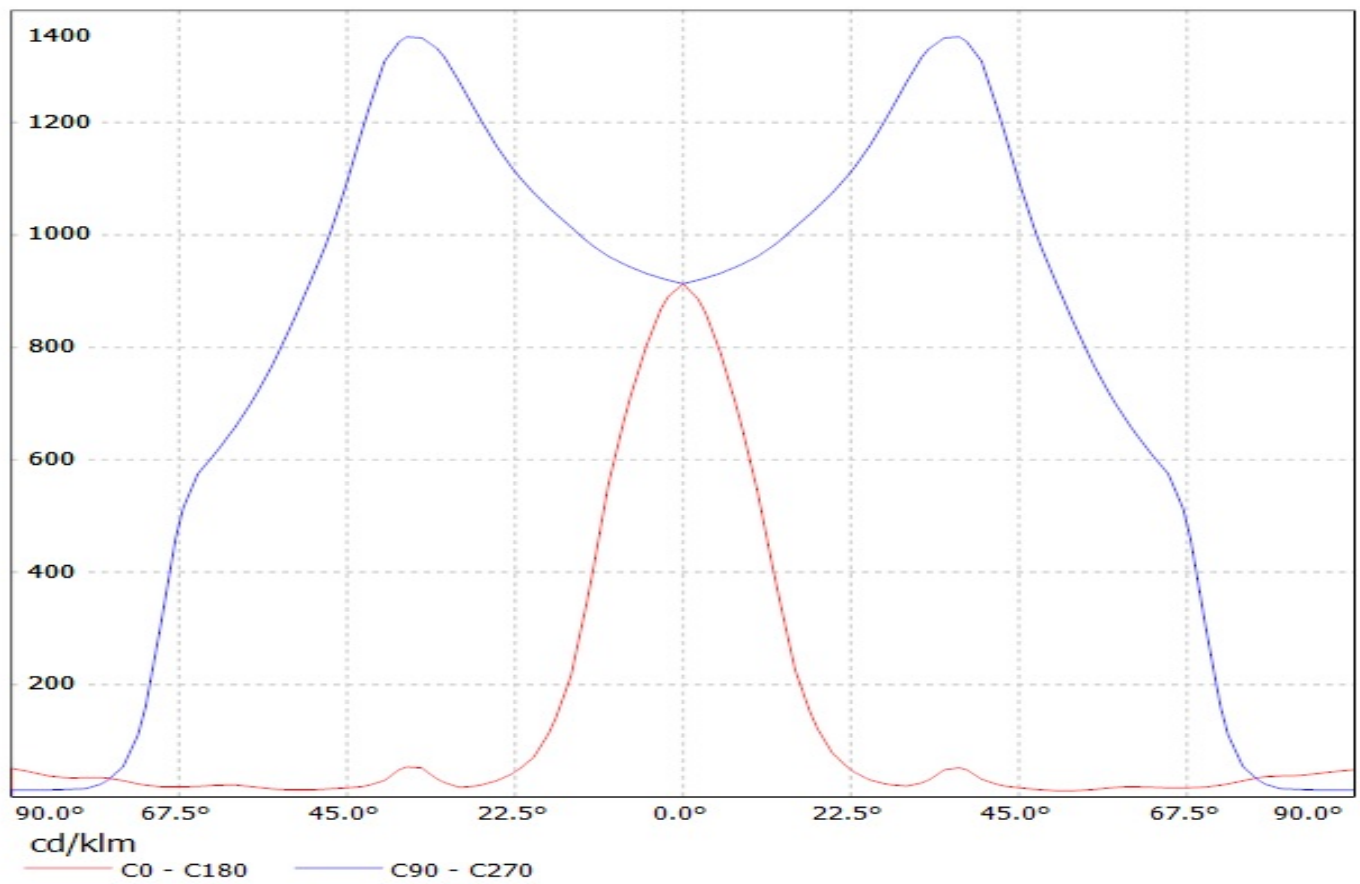
Luminaire: LEDiL Oy C13749_HB-2X2-O_(Luxeon_5050)
Lamps: 1 x Luxeon_5050_2x2_1270.76lm@80mA_CCT=5700K_P=7.35815W_I=0.080A_70CRI



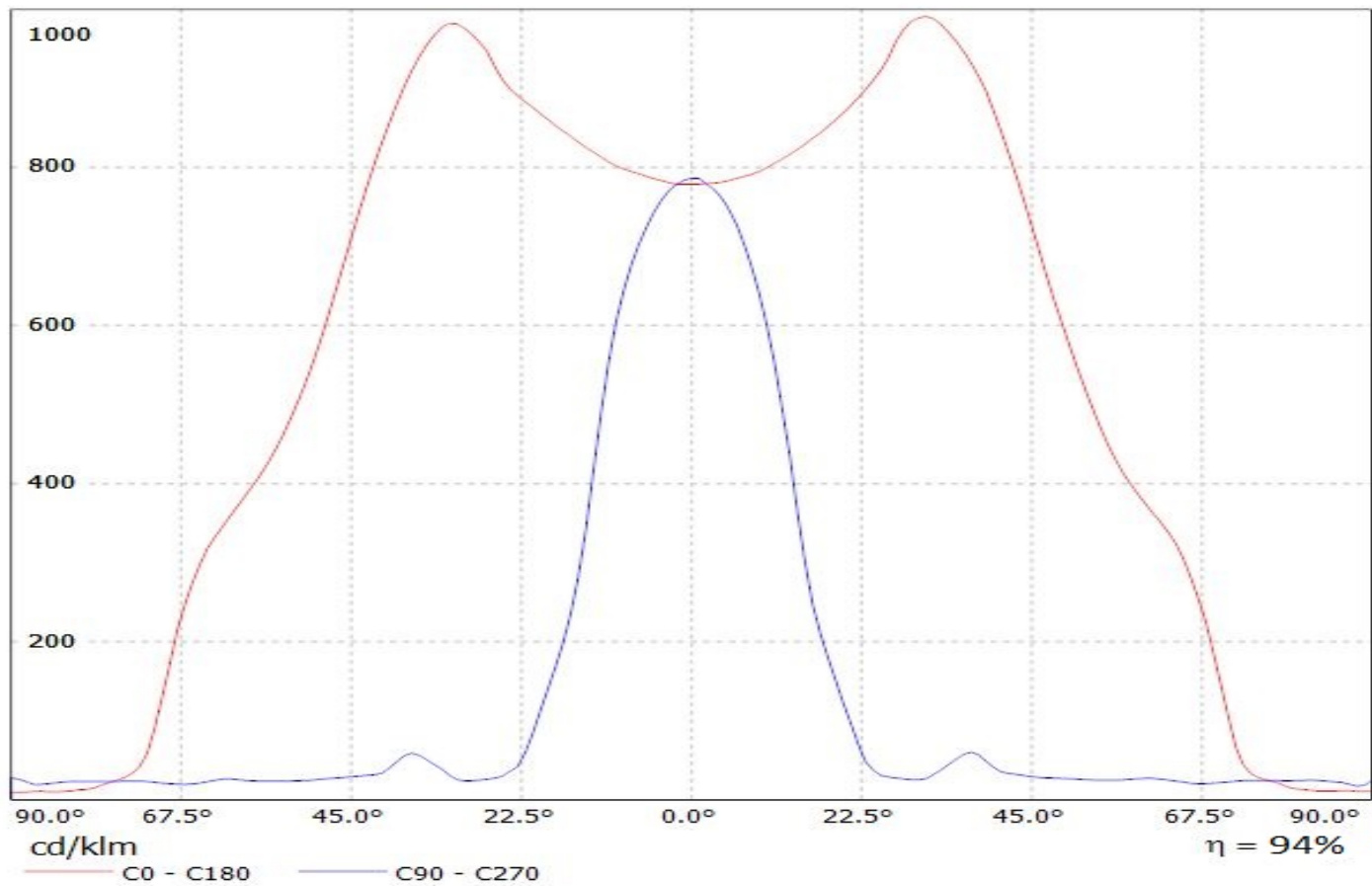
Luminaire: LEDil Oy C13749_HB-2X2-O_(NVSxx19B) Efficiency=94%
Lamps: 1 x Nichia NCSxx19B (NVSL219BE) 315lm @ 250mA CCT=3100K P=2.9W I=250mA



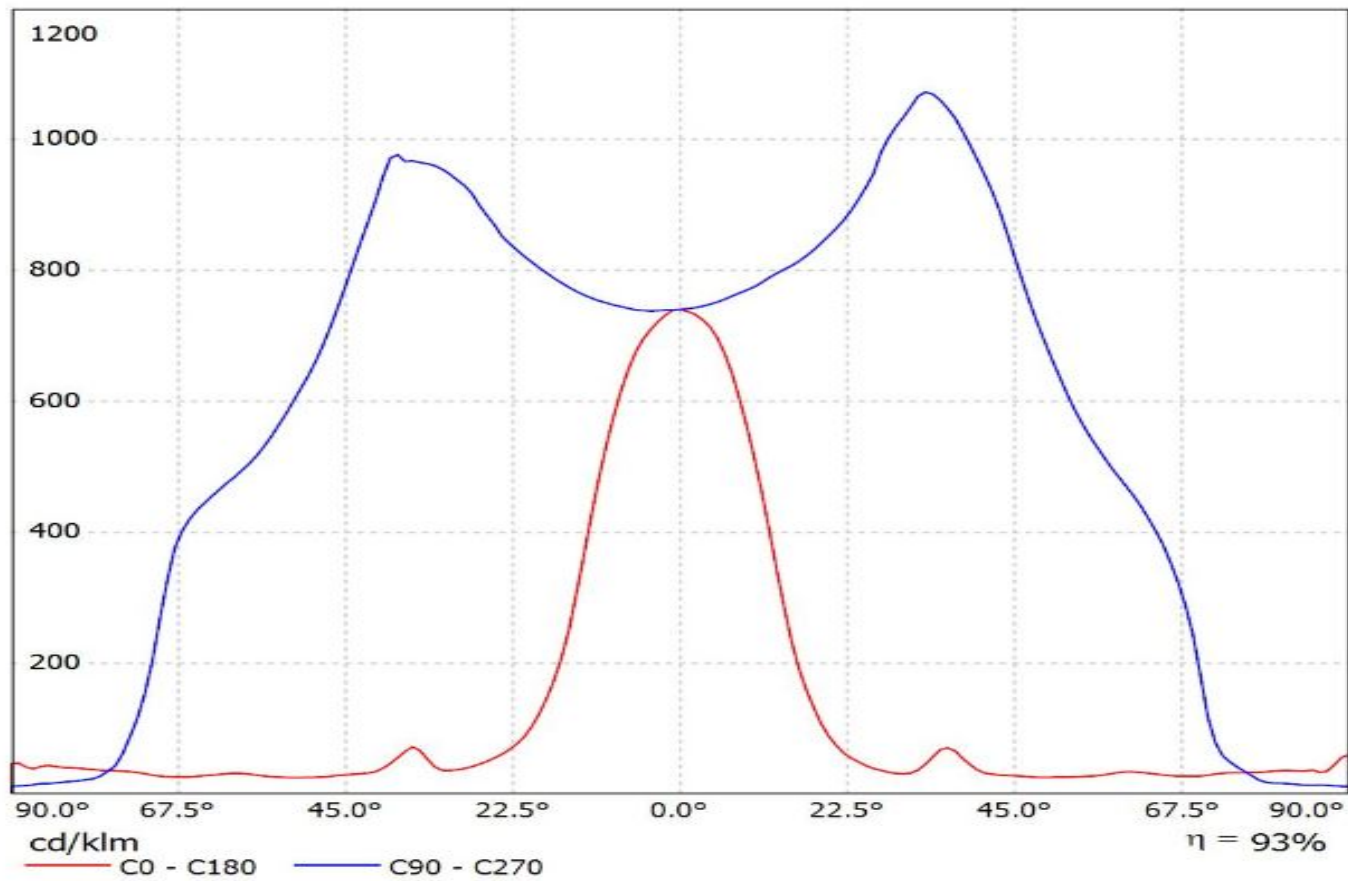
Luminaire: LEDil Oy C13749_HB-2X2-O_(NCSxx19B) Efficiency=94%
Lamps: 1 x Nichia NCSxx19B (NCSW119BE) 425lm @ 250mA CCT=5400K P=3.1W I=250mA



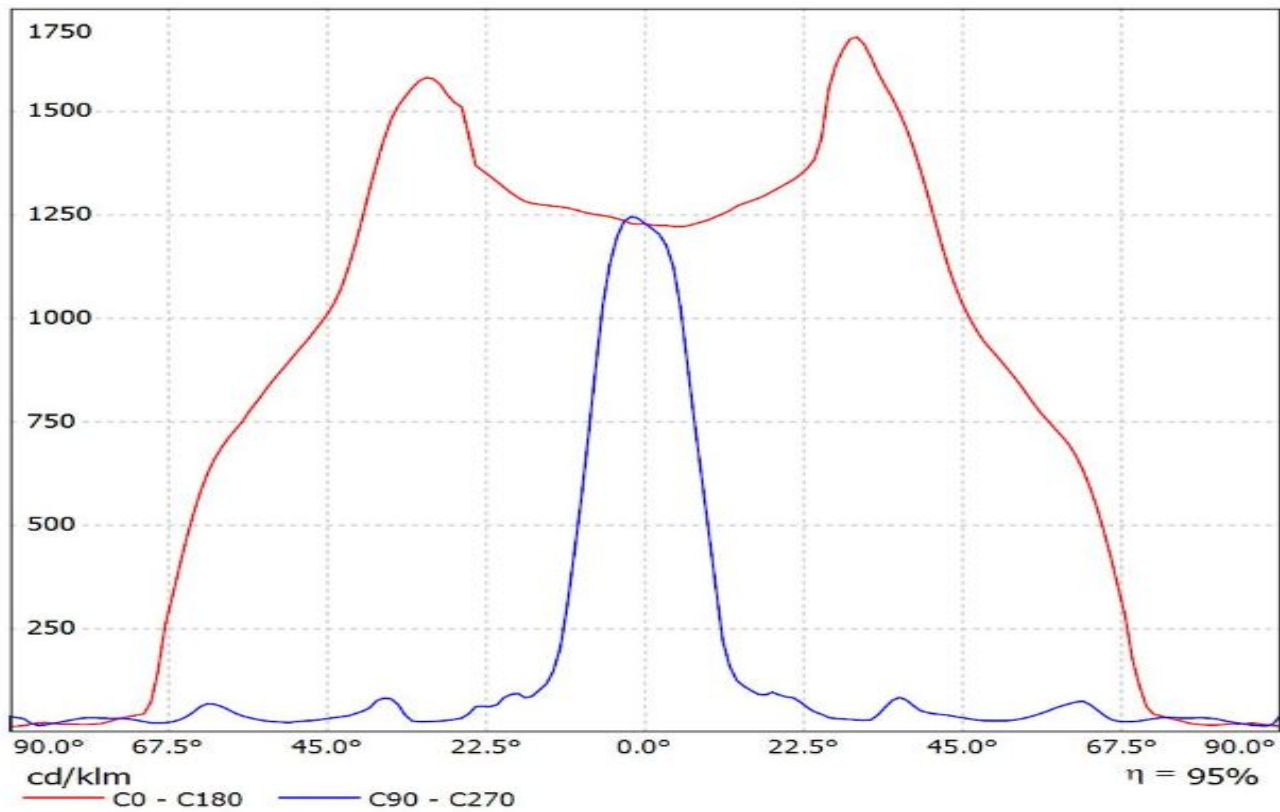
Luminaire: LEDiL Oy C13749_HB-2X2-O_(NWSL229AE)
Lamps: 1 x Nichia_2X2_NWSL229AE_476.548lm@250mA_P=2.7515W_I=0.250A



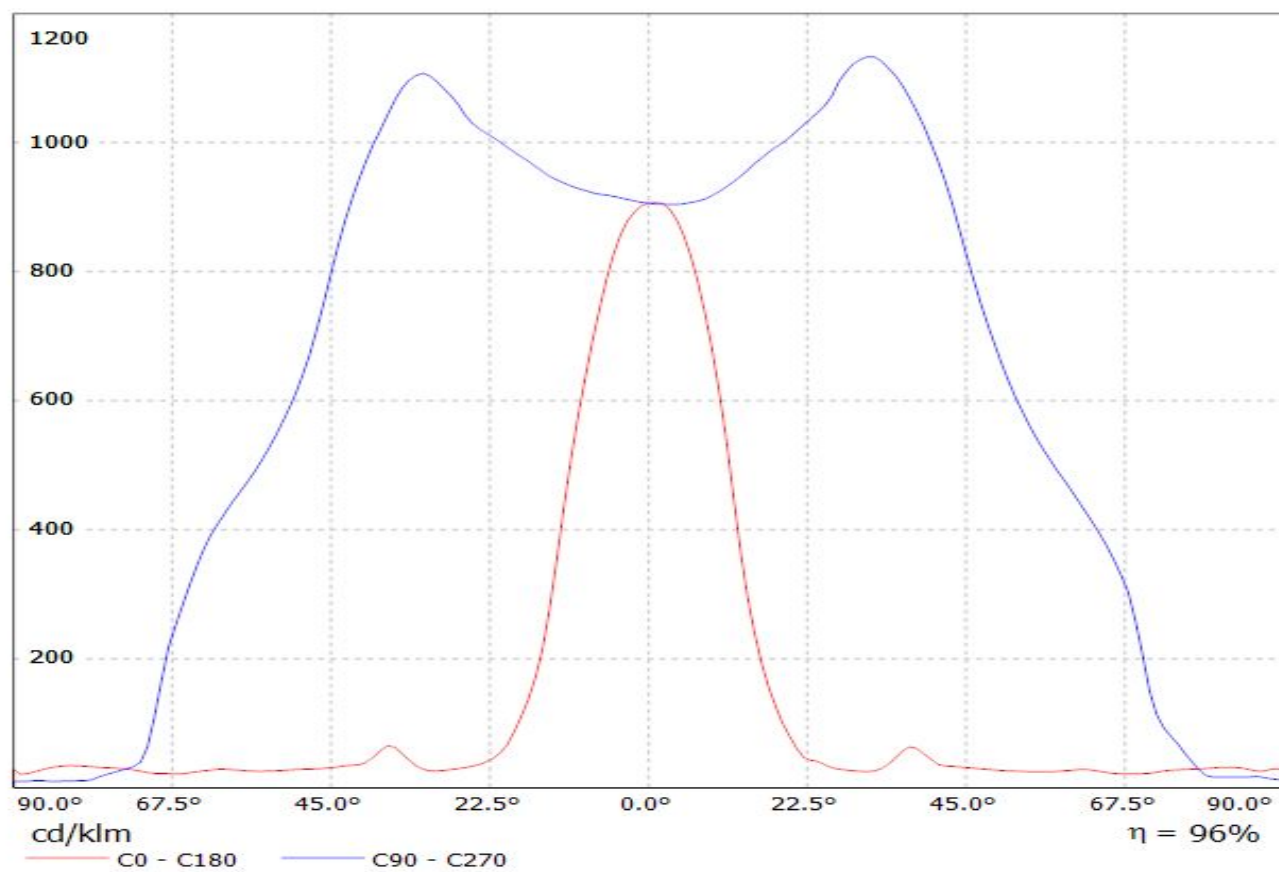
Luminaire: LEDiL Oy C13749_HB-2X2-O_(NVSW3x9A)
Lamps: 1 x Nichia_NVSW3x9A_(sm405/R70)_483.482lmP=2.75904W_I=0.250A



Luminaire: LEDiL Oy C13749_HB-2X2-O_(E21A_2X2)
Lamps: 1 x Nichia_E21A_2X2_451.614lm@250mA_P=2.8045W_I=0.250A

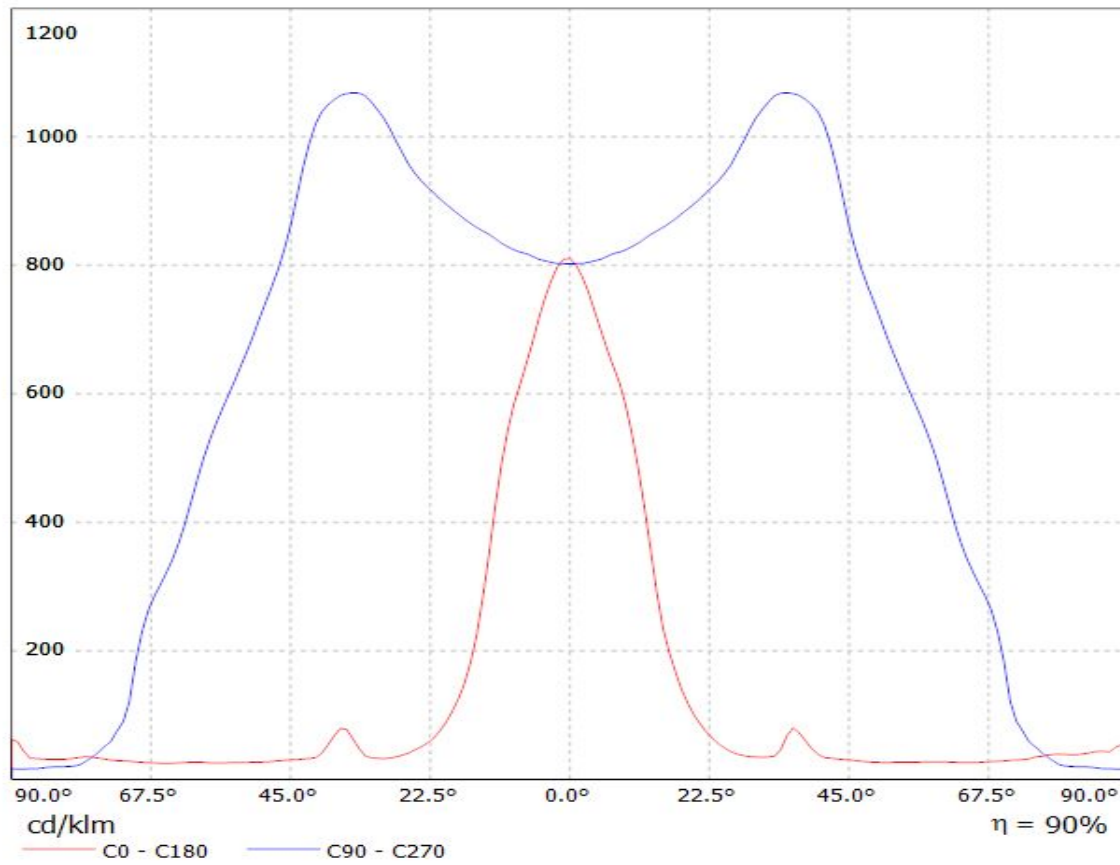


Luminaire: LEDiL Oy C13749_HB-2X2-O_(NVSW319AE)
Lamps: 1 x Nichia_NVSW319AE_499.093lm@250mA_P=2.79052W_I=0.25A

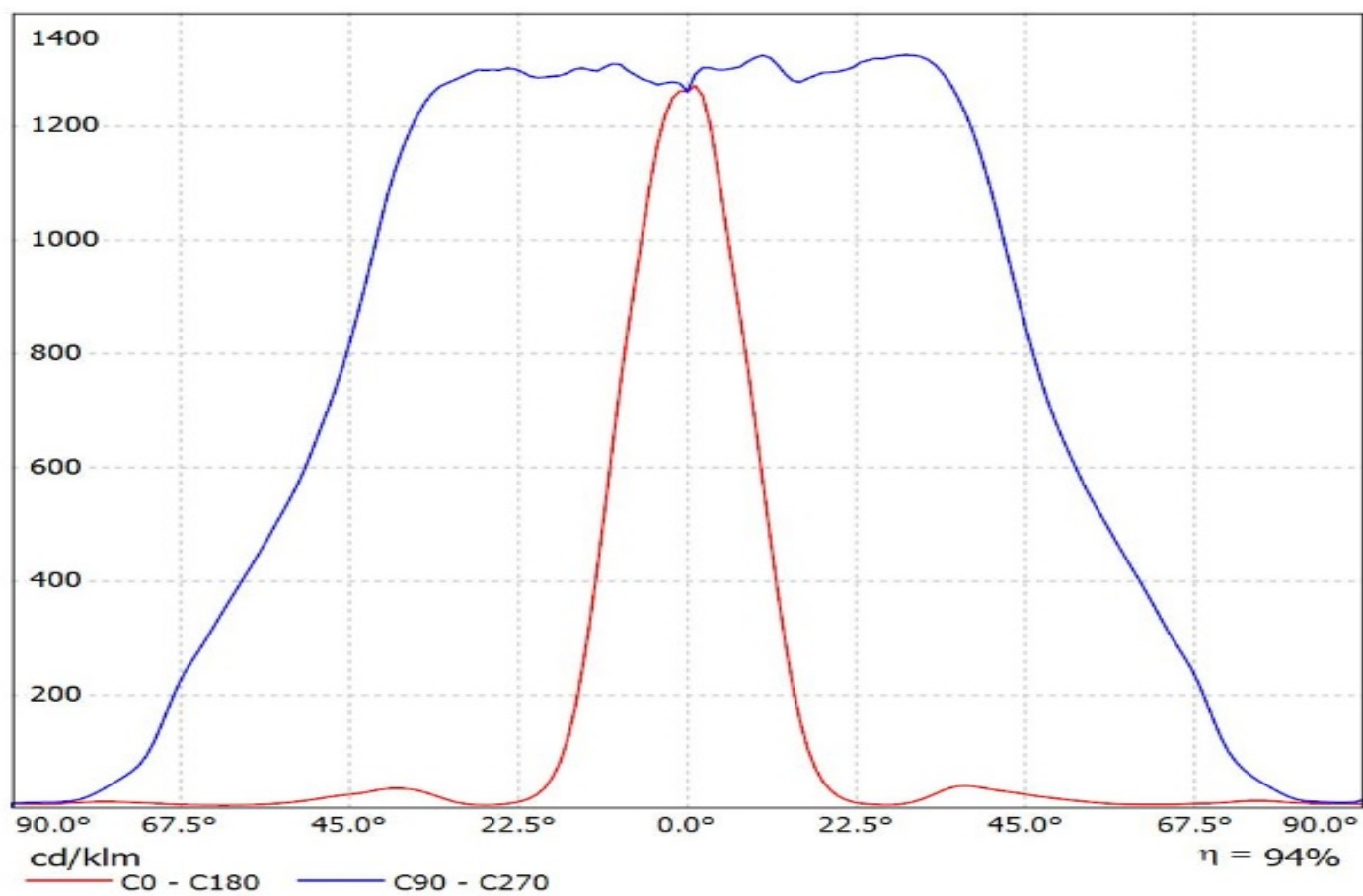


Luminaire: LEDiL Oy C13479_HB-2x2-O_(SQ-PC)

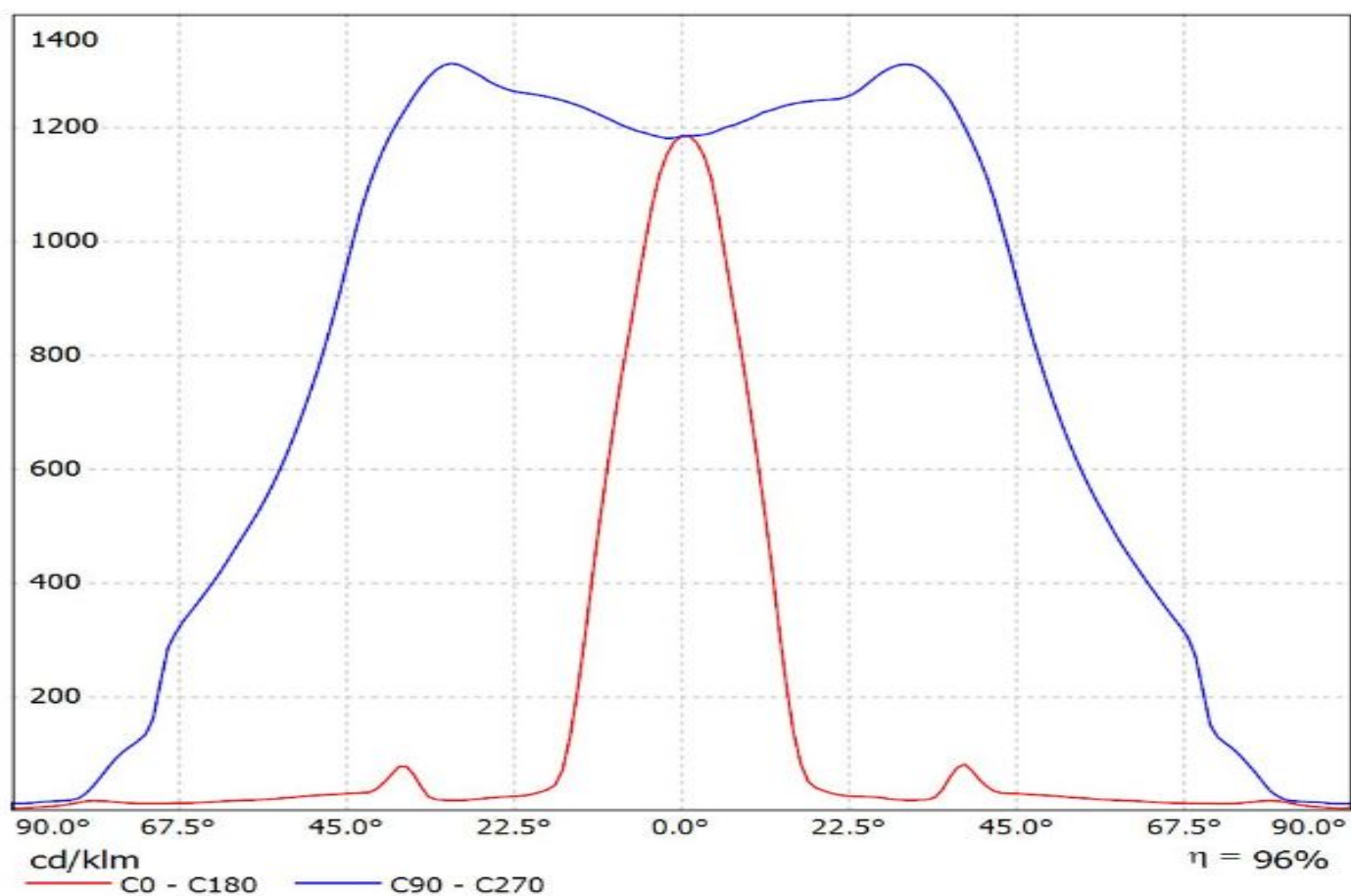
Lamps: 1 x OSRAM_OSLON_SQUARE_PC_2x2_(GWCSSRM1.PC)_414.854lm@250mA_P=2.8626W_CCT=5201K_I=249.9mA



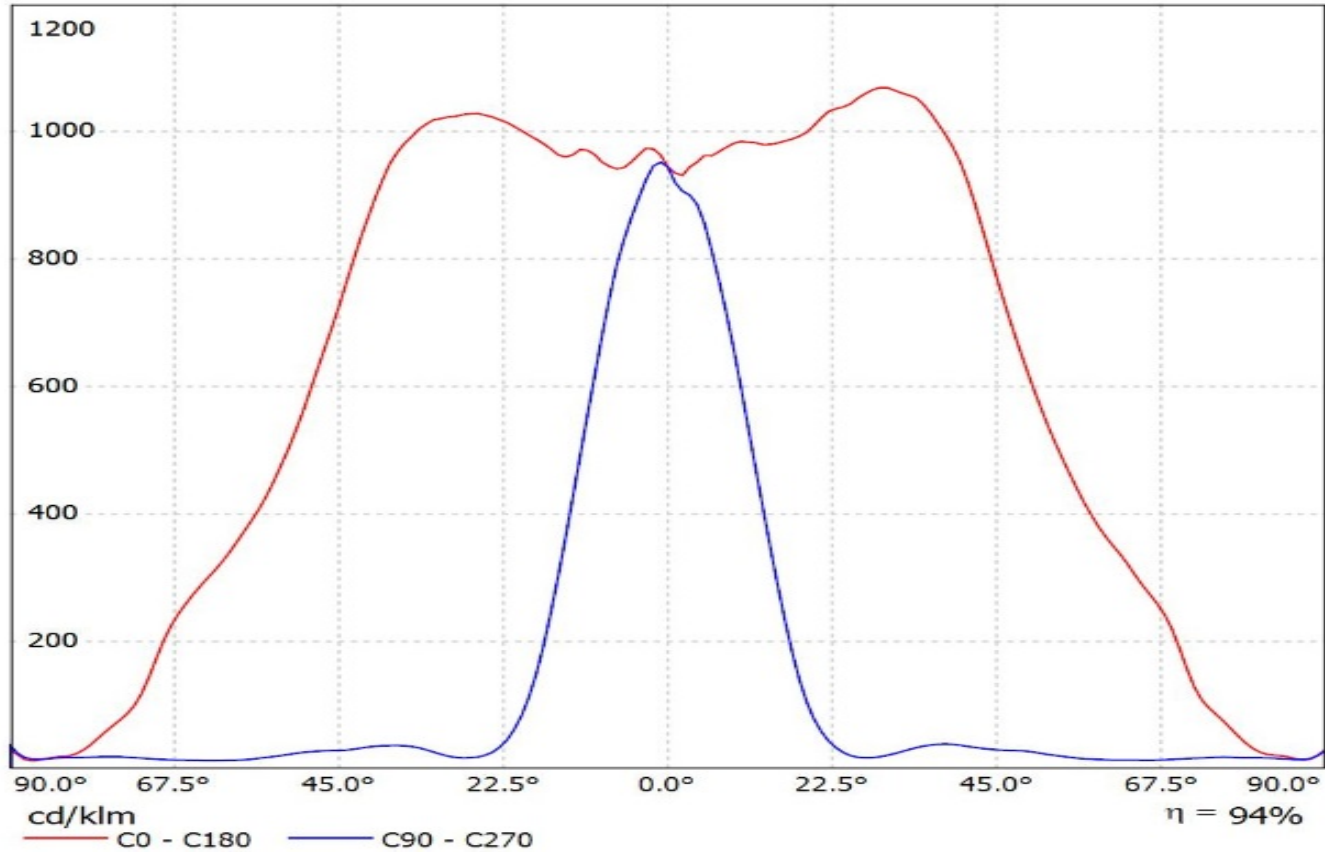
Luminaire: Ledil Oy C13749_HB-2X2-O_(Duris_P8)_SIMULATED
Lamps: 1 x Osram Duris P8



Luminaire: Ledil C13749_HB-2X2-O_(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

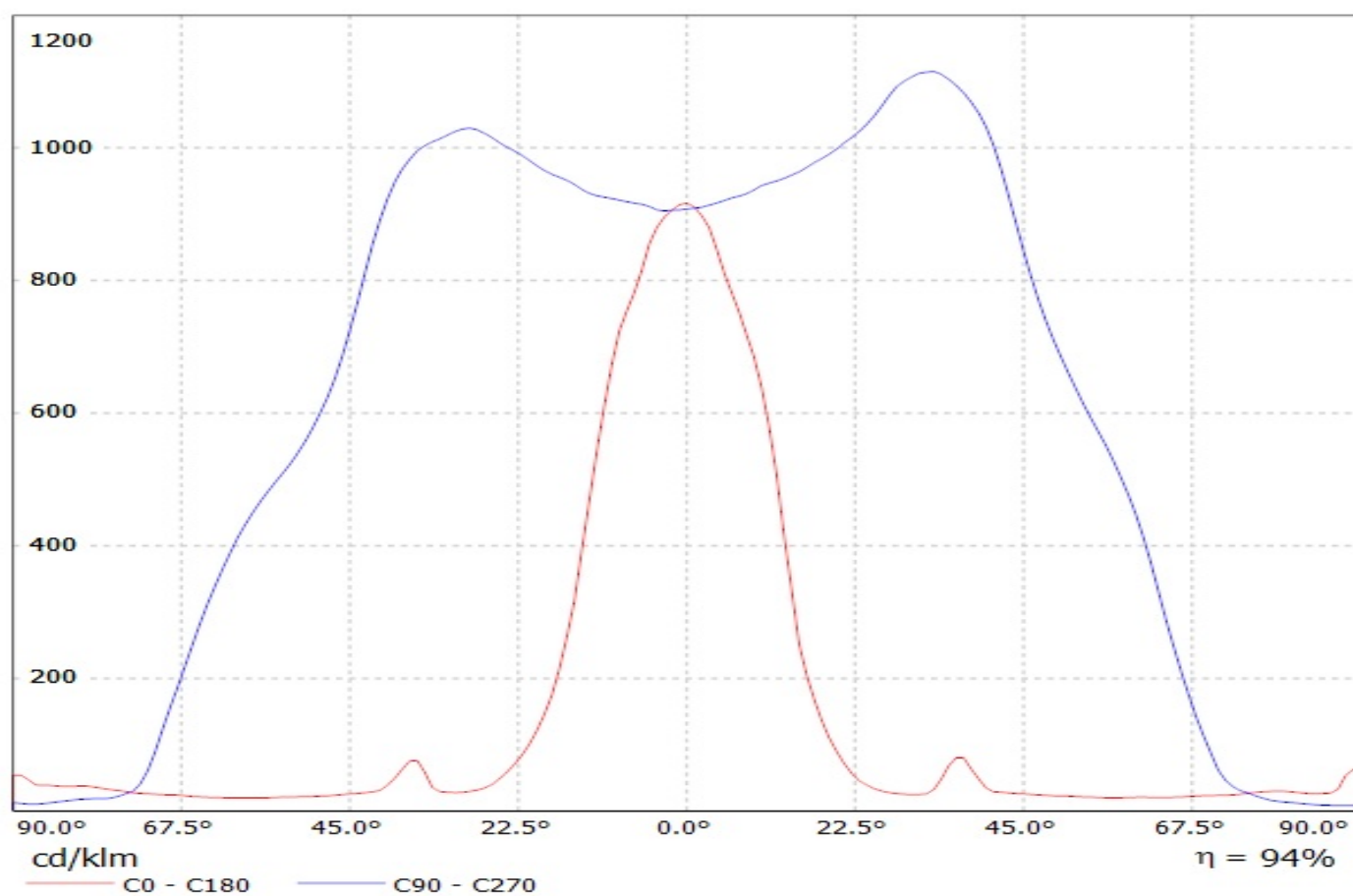


Luminaire: Ledil Oy C13749_HB-2X2-O_(Fortimo FastFlex LED board 2x8 DAX G4)_SIMULATED
C13749_HB-2X2-O_(Fortimo FastFlex LED board 2x8 DAX G4)_SIMULATED
Lamps: 1 x Fortimo FastFlex LED board 2x8 DAX G4

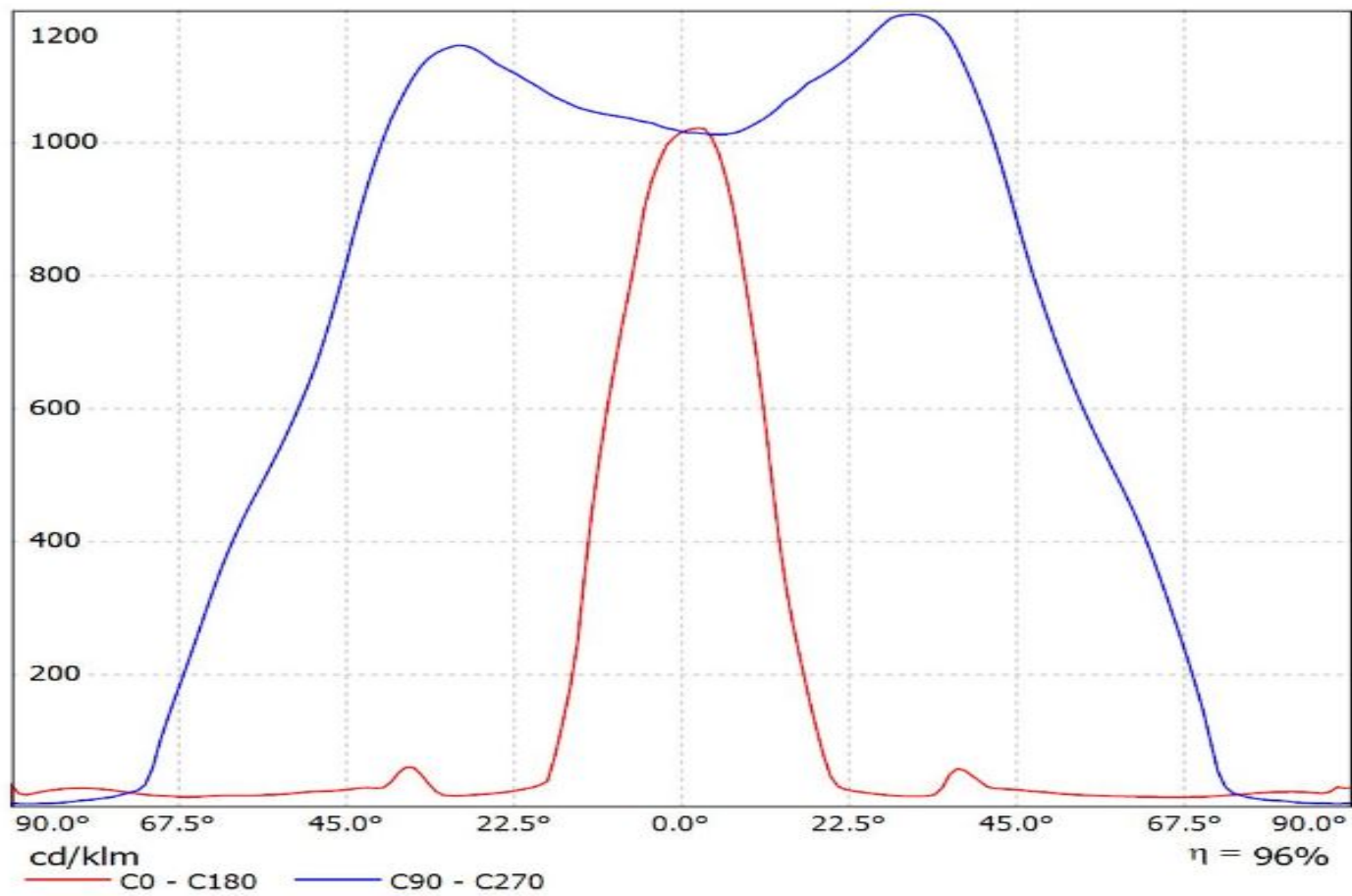


Luminaire: LEDiL Oy C13749_HB-2X2-O_(LH351Z)

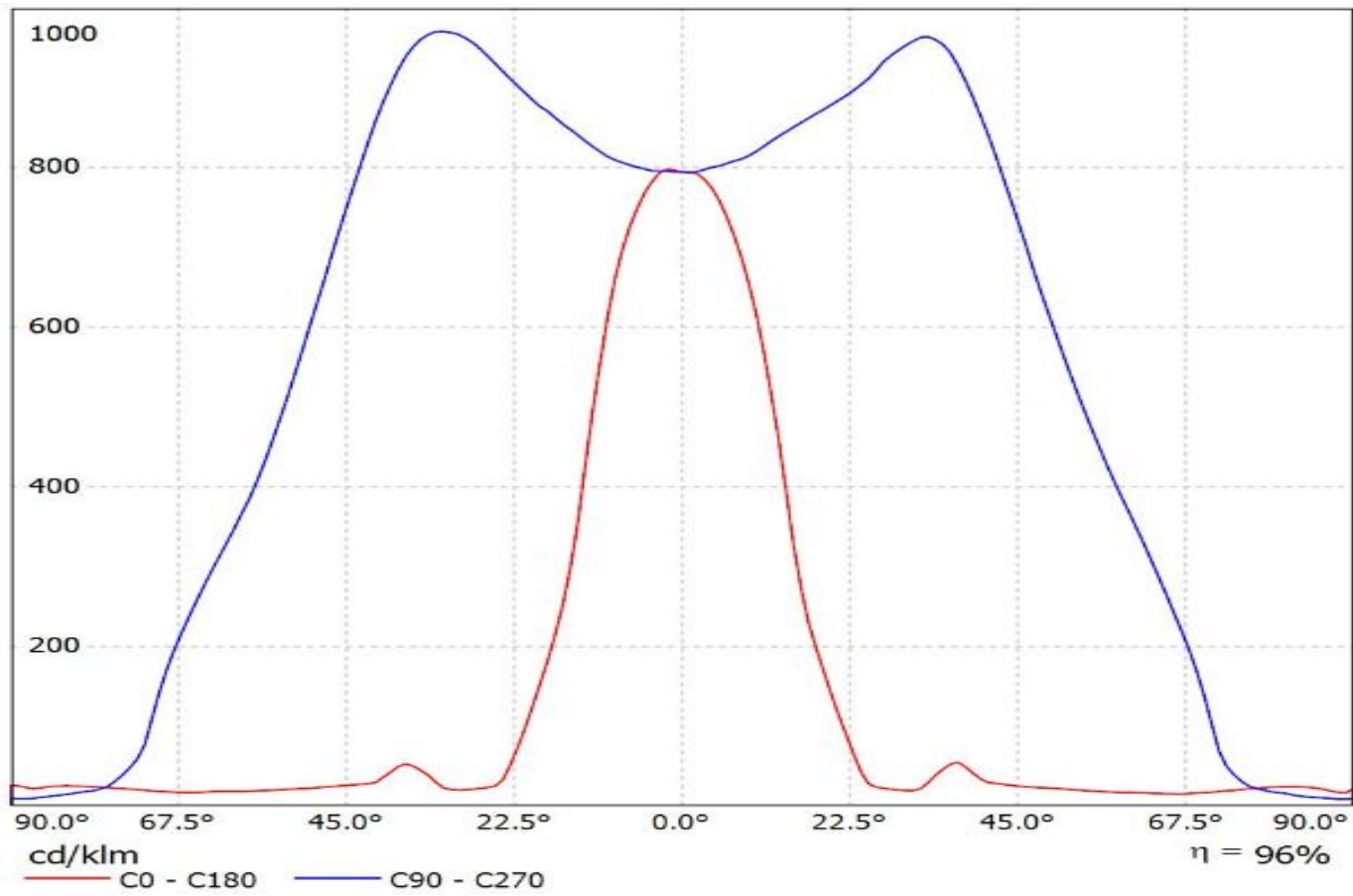
Lamps: 1 x SAMSUNG_LH351Z_2x2_361.9lm@250mA_P=2.86371W_I=249.8mA



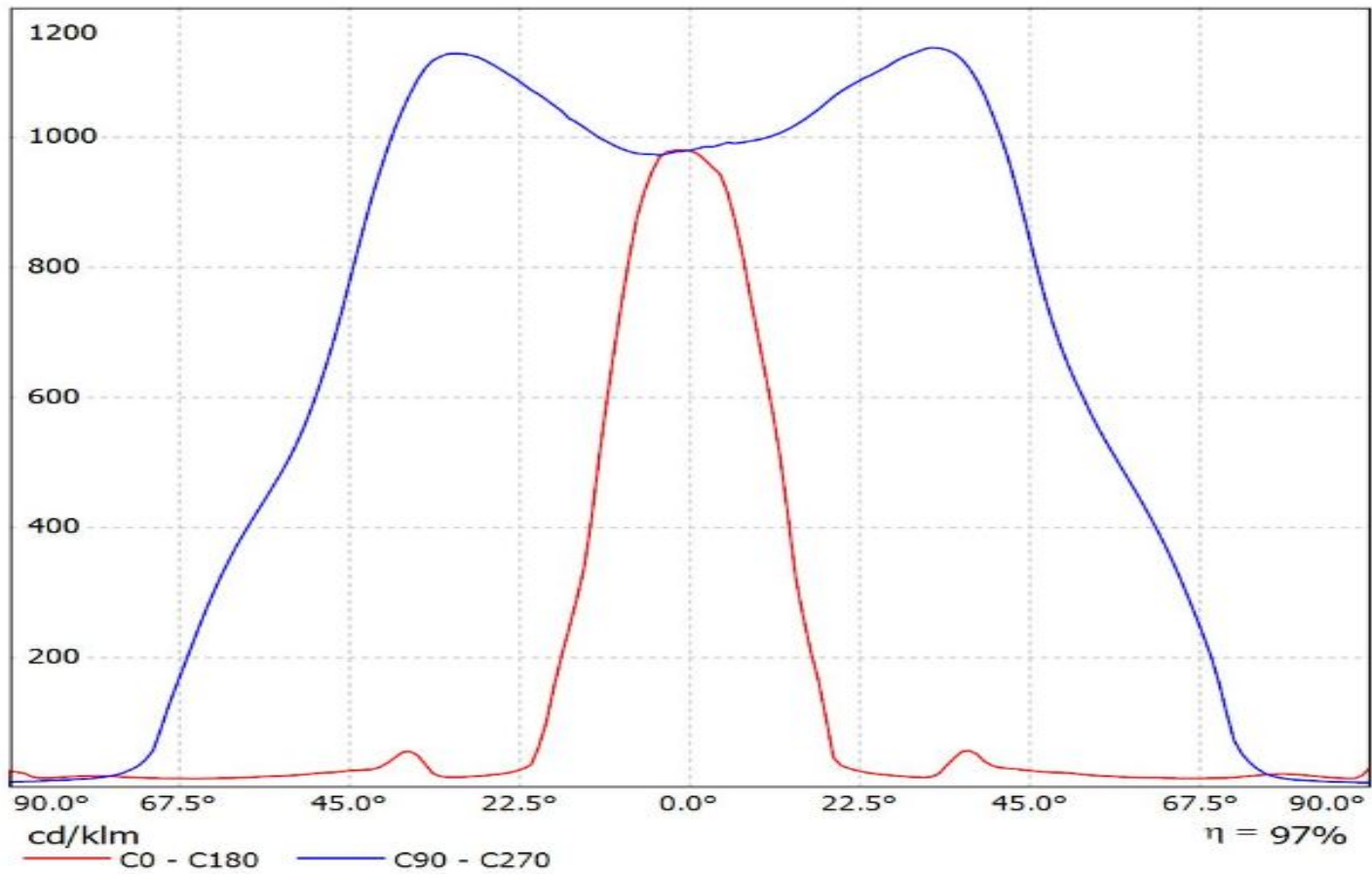
Luminaire: Ledil C13749_HB-2X2-O_(LH351B)
Lamps: 1 x Samsung_LH351B_2x2_444.178lm@250mA_P=2.8535W_I=0.25A



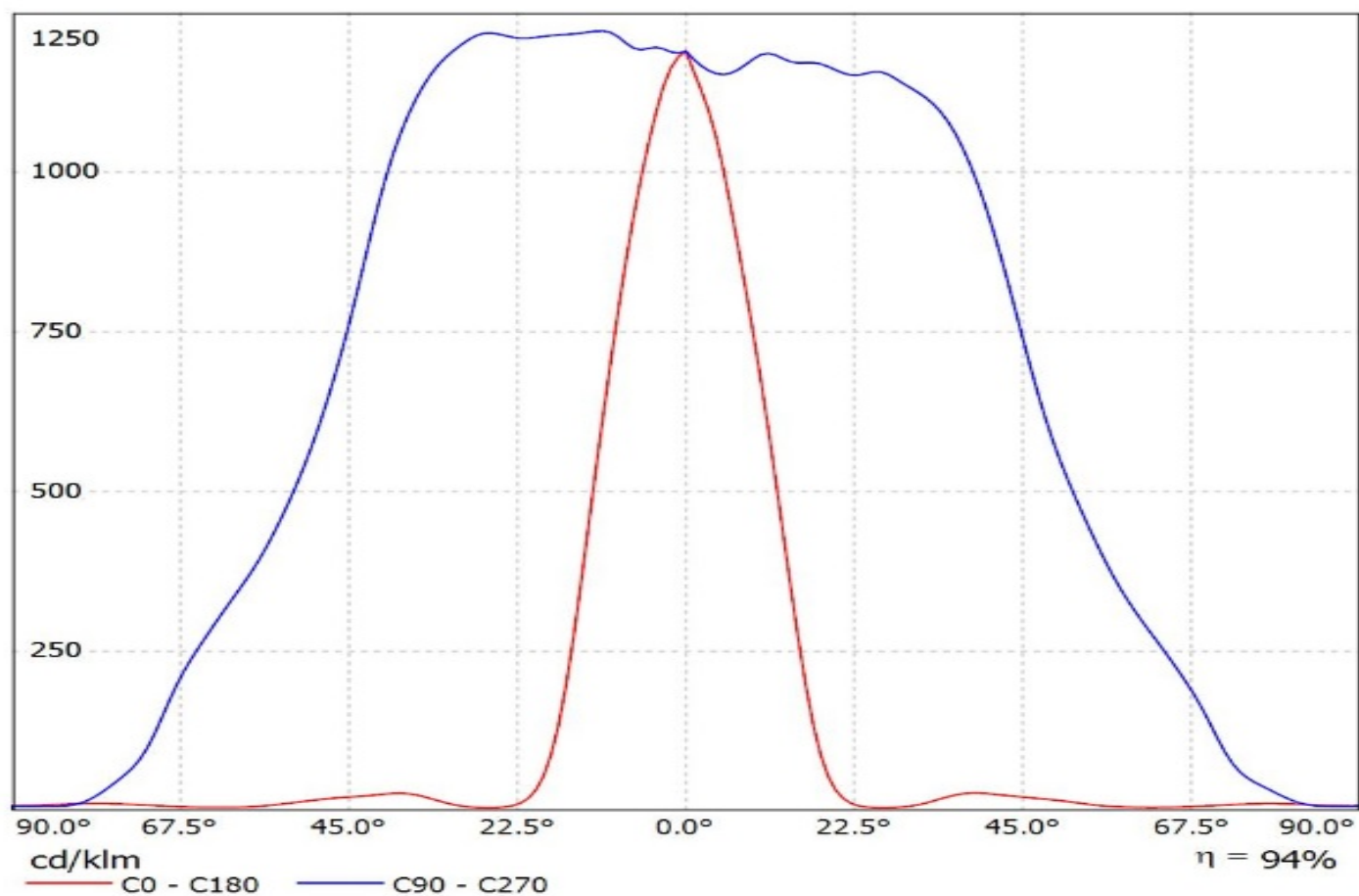
Luminaire: Ledil C13749_HB-2X2-O_(LH351D)
Lamps: 1 x Samsung_LH351D_536.957lm@250mA_P=2.7695W_I=0.250A



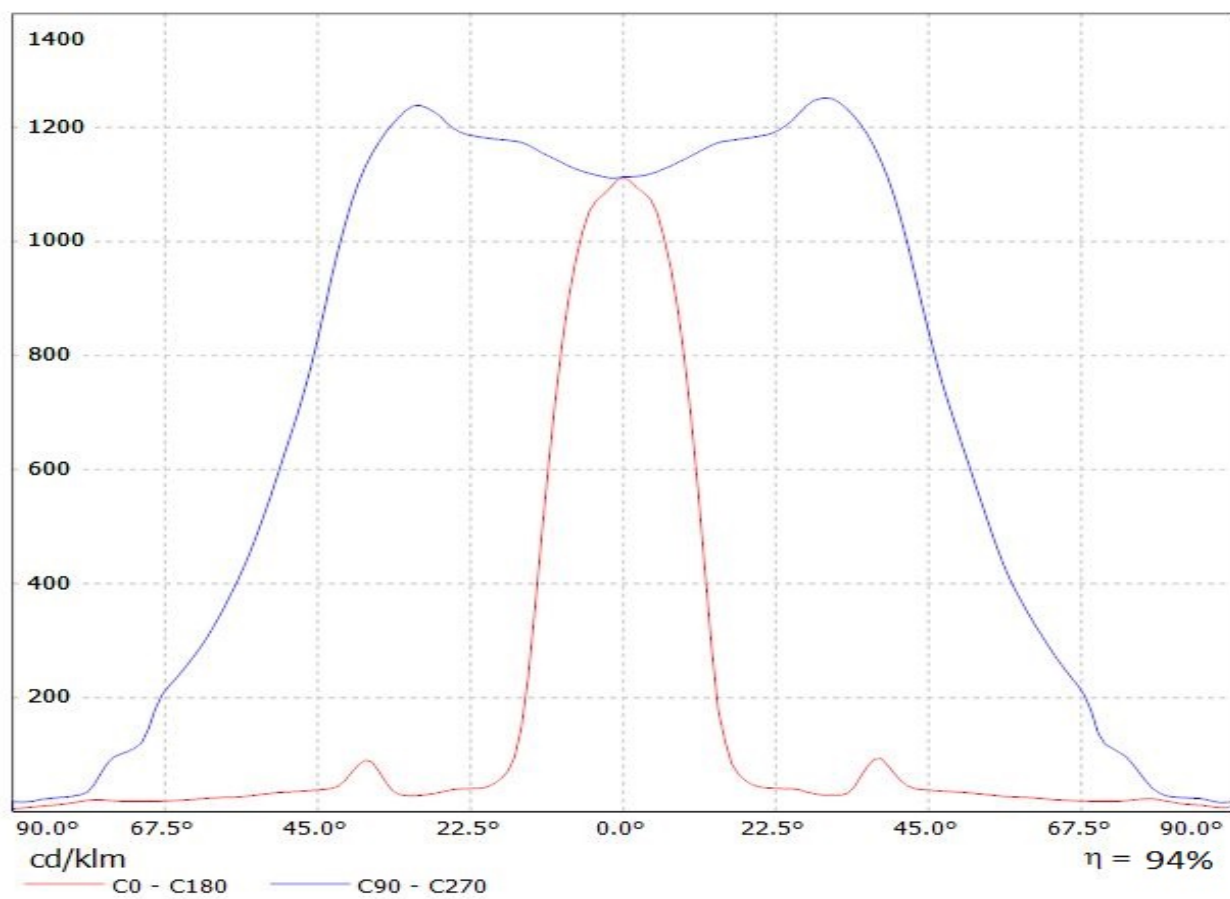
Luminaire: Ledil C13749_HB-2X2-O_(LH351C)
Lamps: 1 x Samsung_LH351C_518.223lm@250mA_P=2.85225W_I=0.25A



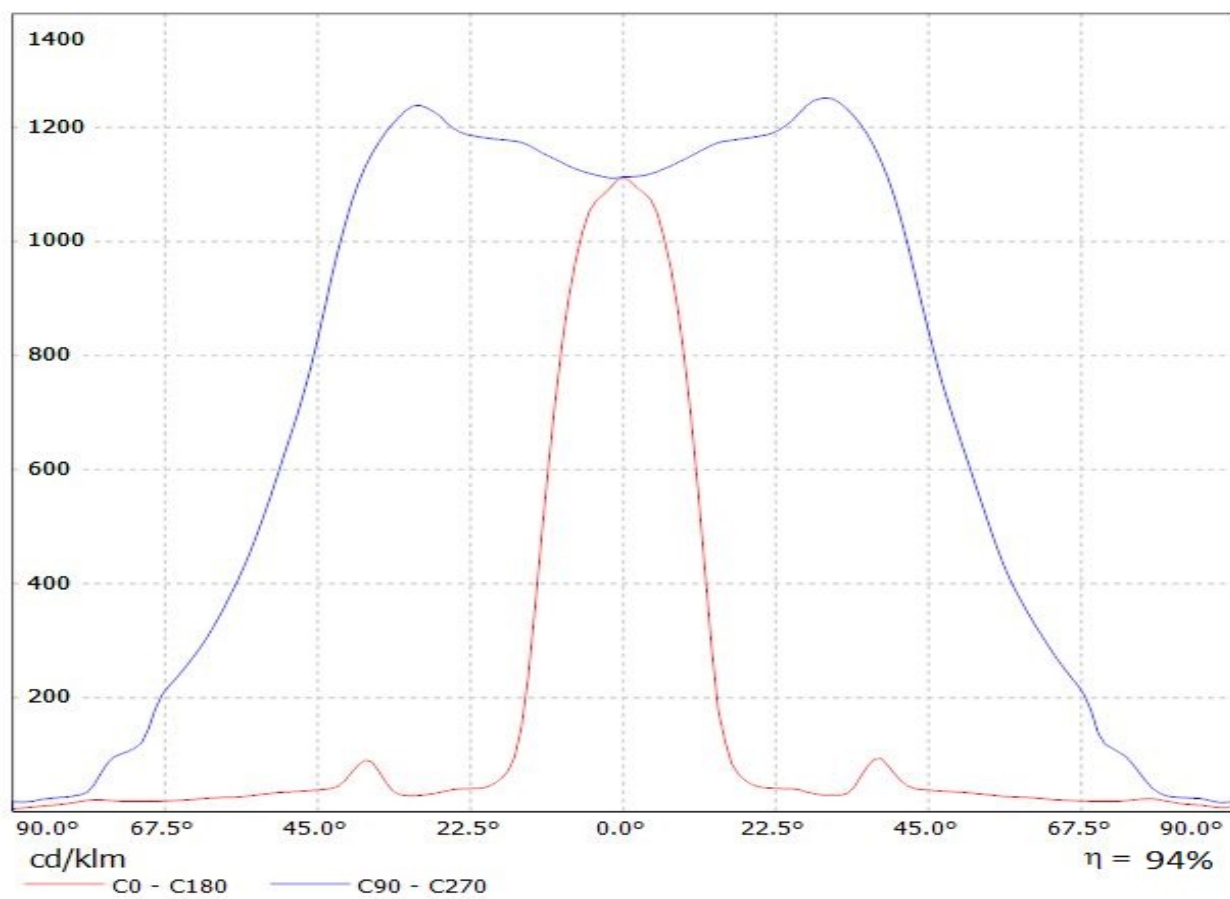
Luminaire: Ledil Oy C13749_HB-2X2-O_(Z5M2)_SIMULATED
Lamps: 1 x Seoul Z5M2 (SZ5-M2-W0-00)



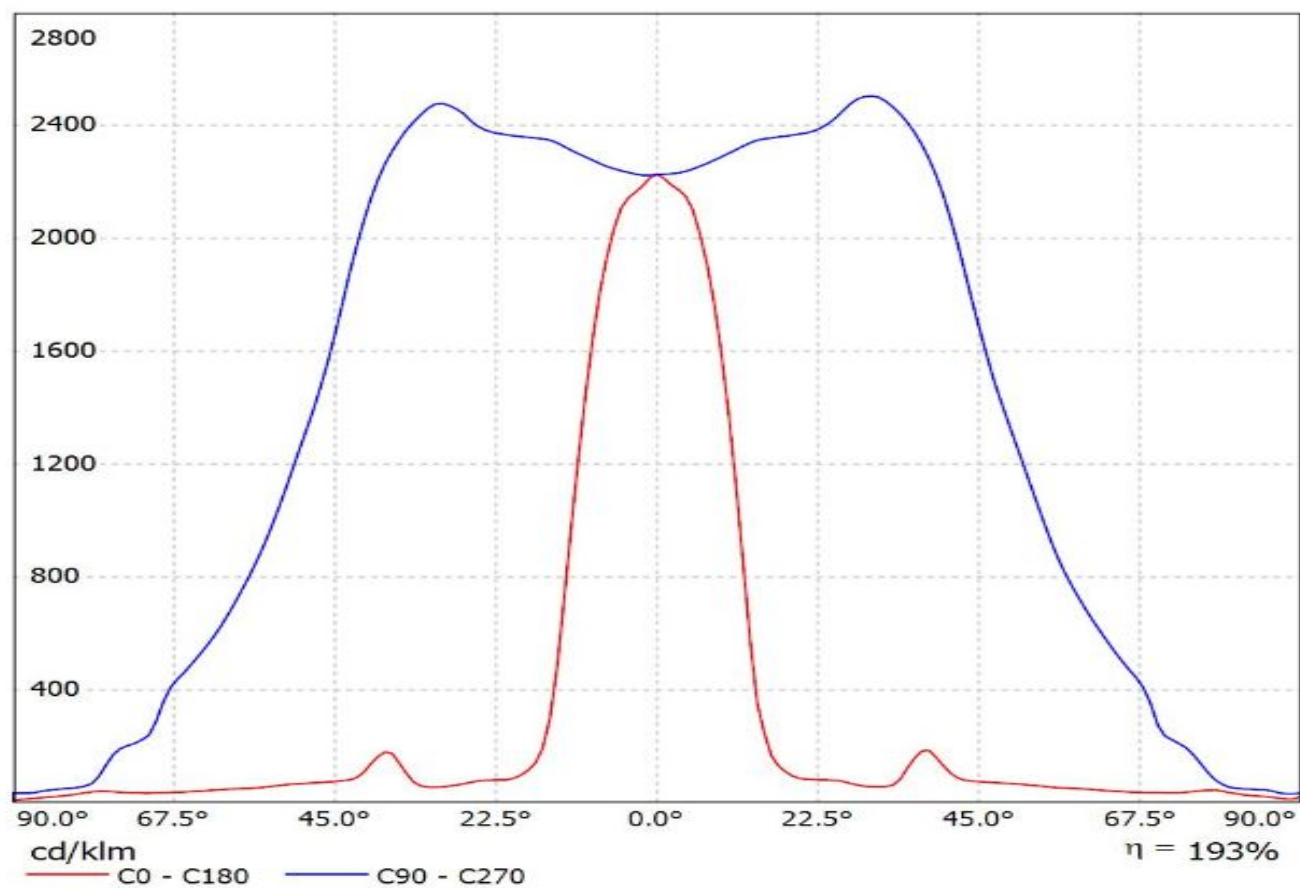
Luminaire: LEDiL Oy C13749_HB-2X2-O_(Tridonic_Module_RLE_G1)
Lamps: 1 x Tridonic_Module_RLE_G1_4576.03lm@700mA_P=32.0681W_I=0.700A



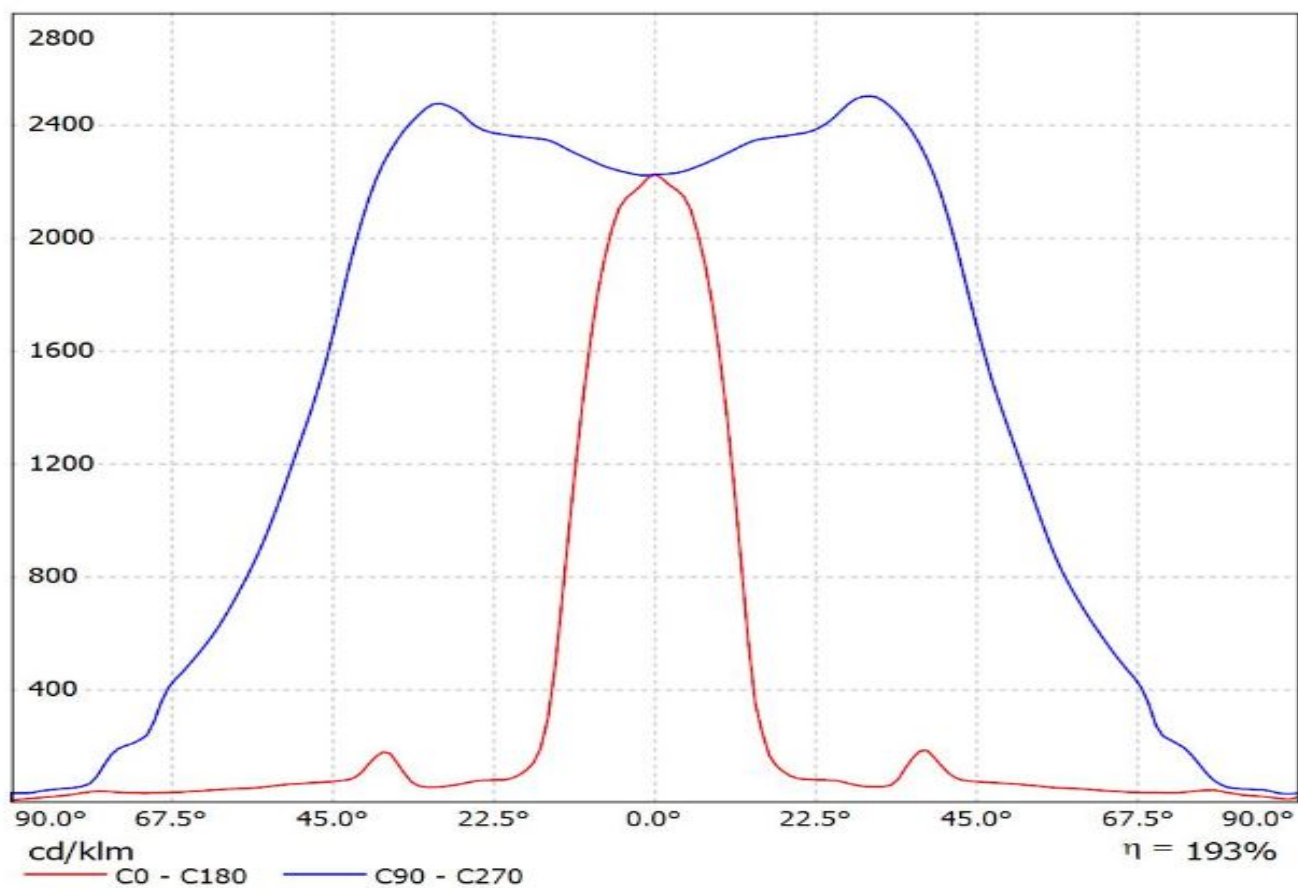
Luminaire: LEDiL Oy C13749_HB-2X2-O_(Tridonic_Module_RLE_G1)
Lamps: 1 x Tridonic_Module_RLE_G1_4576.03lm@700mA_P=32.0681W_I=0.700A



Luminaire: LEDiL Oy C13749_HB-2X2-O_(Tridonic_Module_RLE_G1)
Lamps: 1 x Tridonic_Module_RLE_G1_2288lm@700mA_P=16W_I=0.700A

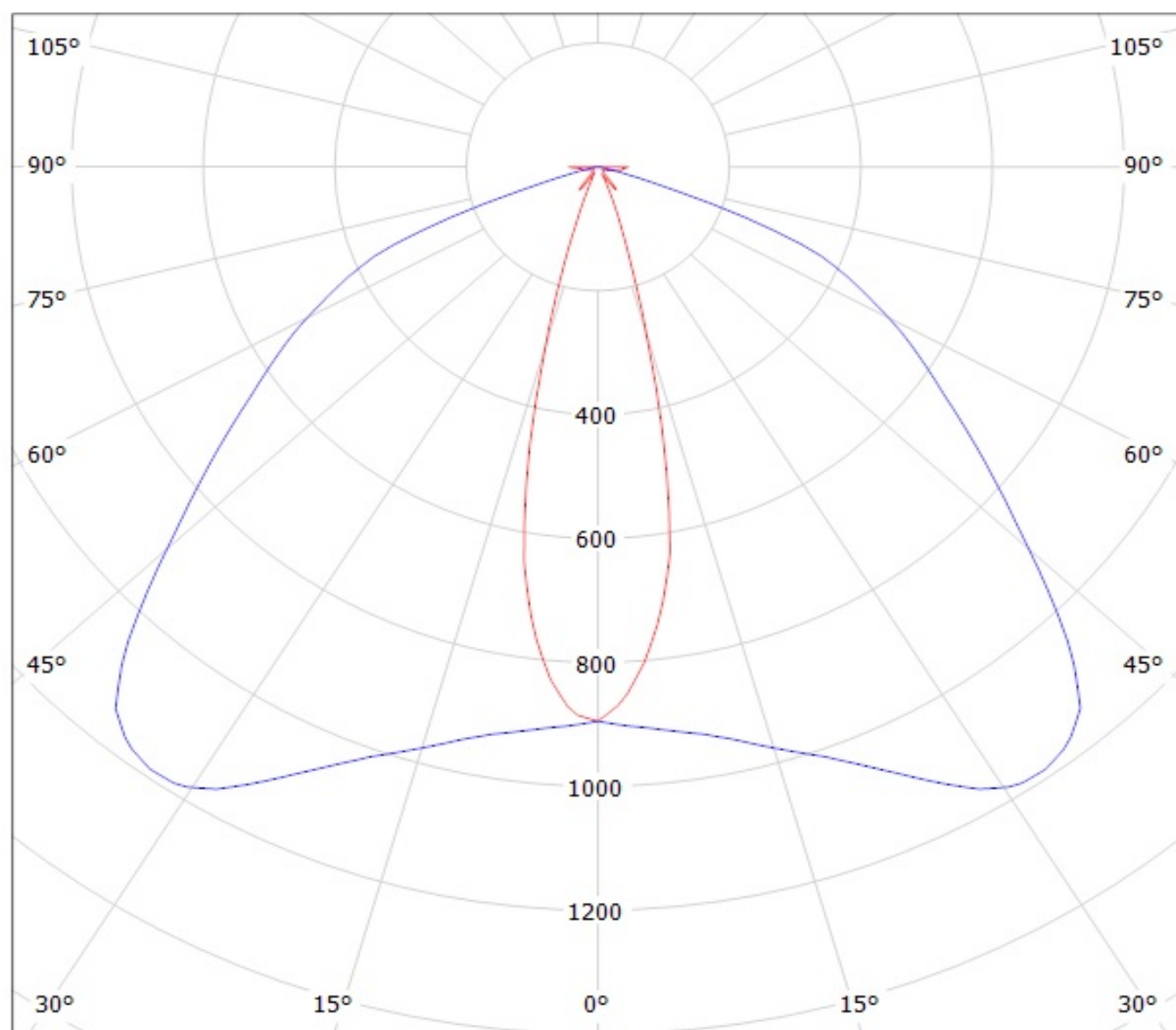


Luminaire: LEDiL Oy C13749_HB-2X2-O_(Tridonic_Module_RLE_G1)
Lamps: 1 x Tridonic_Module_RLE_G1_2288lm@700mA_P=16W_I=0.700A



Luminaire: LEDil Oy C13749_HB-2X2-O_(XP-G2) Efficiency=94%

Lamps: 1 x Cree XP-G2 (XPGBWT-L1-000-00G51) 411lm @ 250mA CCT=7200K P=2.9W I=250mA



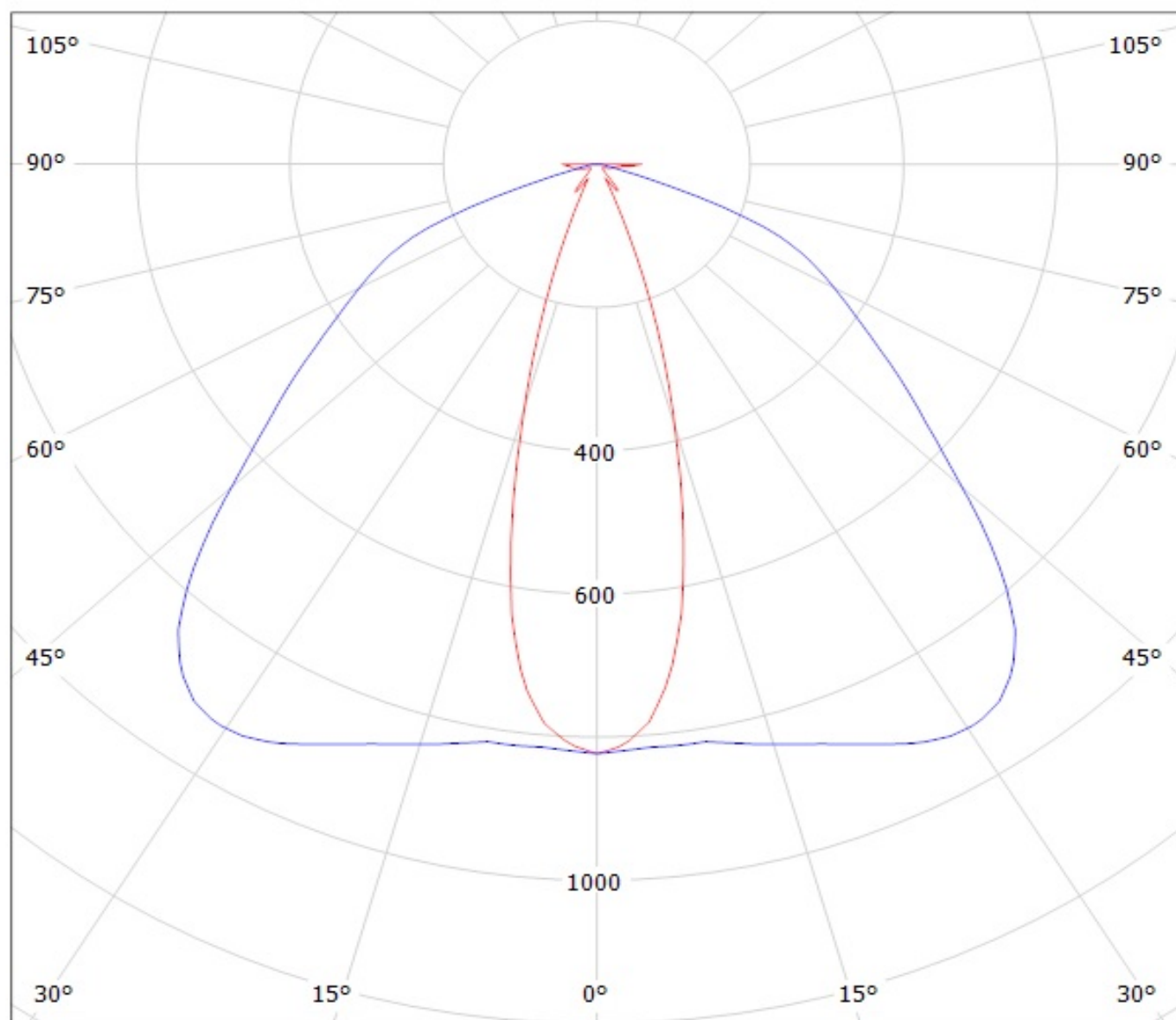
cd/klm

— C0 - C180

— C90 - C270

Luminaire: LEDil Oy C13749_HB-2X2-O_(XM-L2) Efficiency=94%

Lamps: 1 x Cree XM-L2 (XMLBWT-0-7B4-T30-0L-0001) 356lm @ 250mA CCT=3200K P=2.8W I=250mA

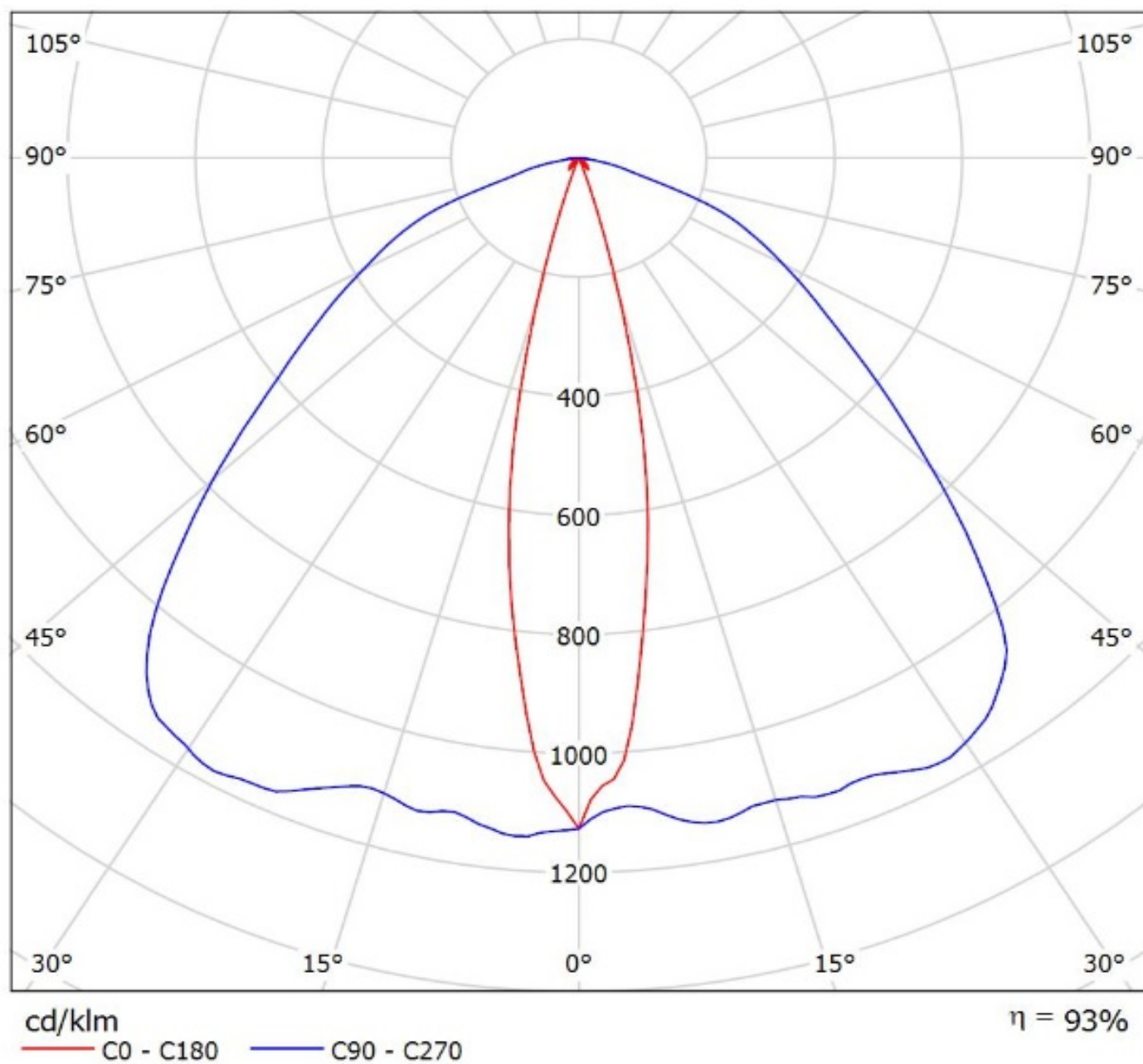


cd/klm

— C0 - C180

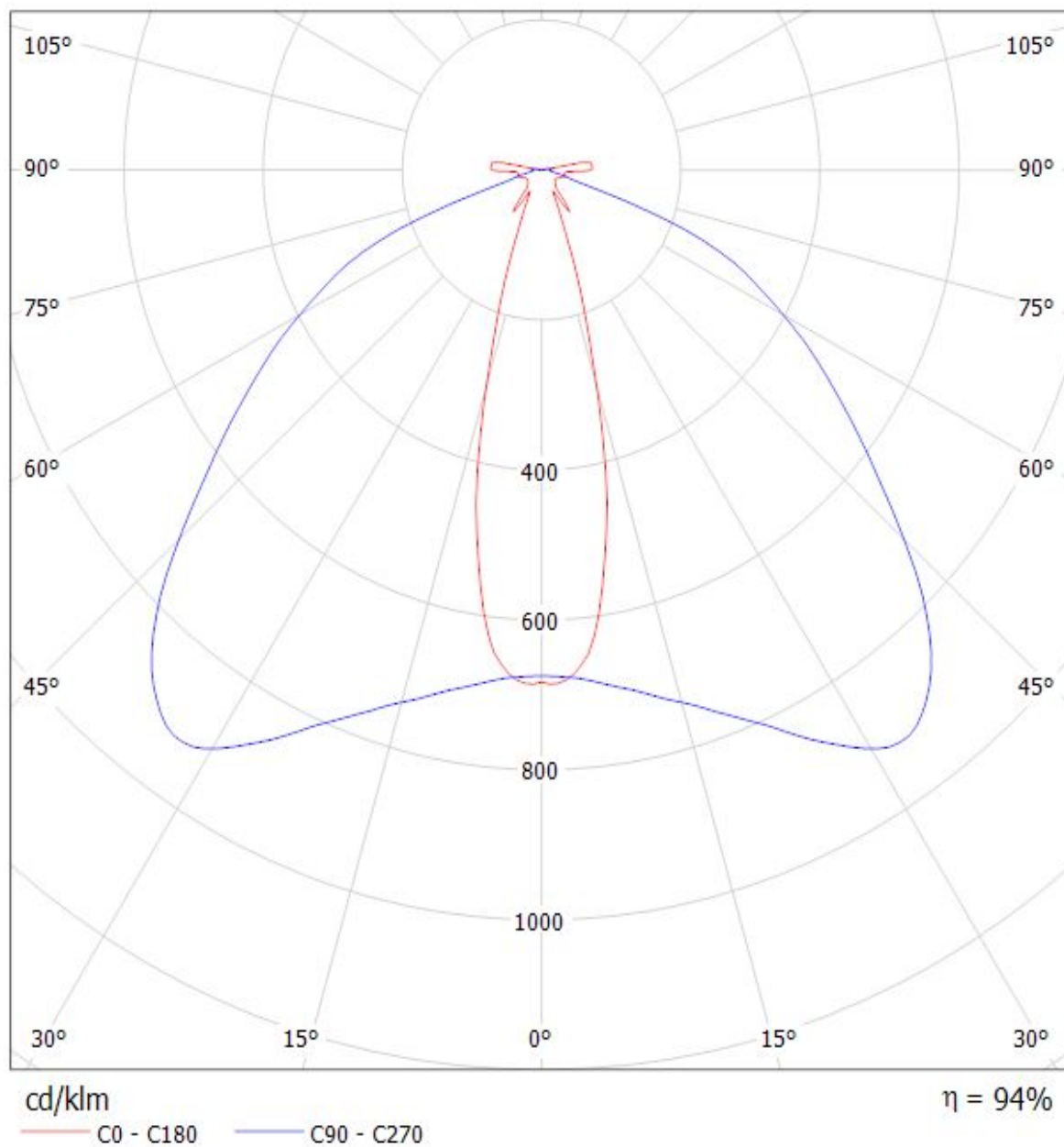
— C90 - C270

Luminaire: Ledil Oy C13749_HB-2X2-O_(XP-G)_SIMULATED
Lamps: 1 x Cree XP-G

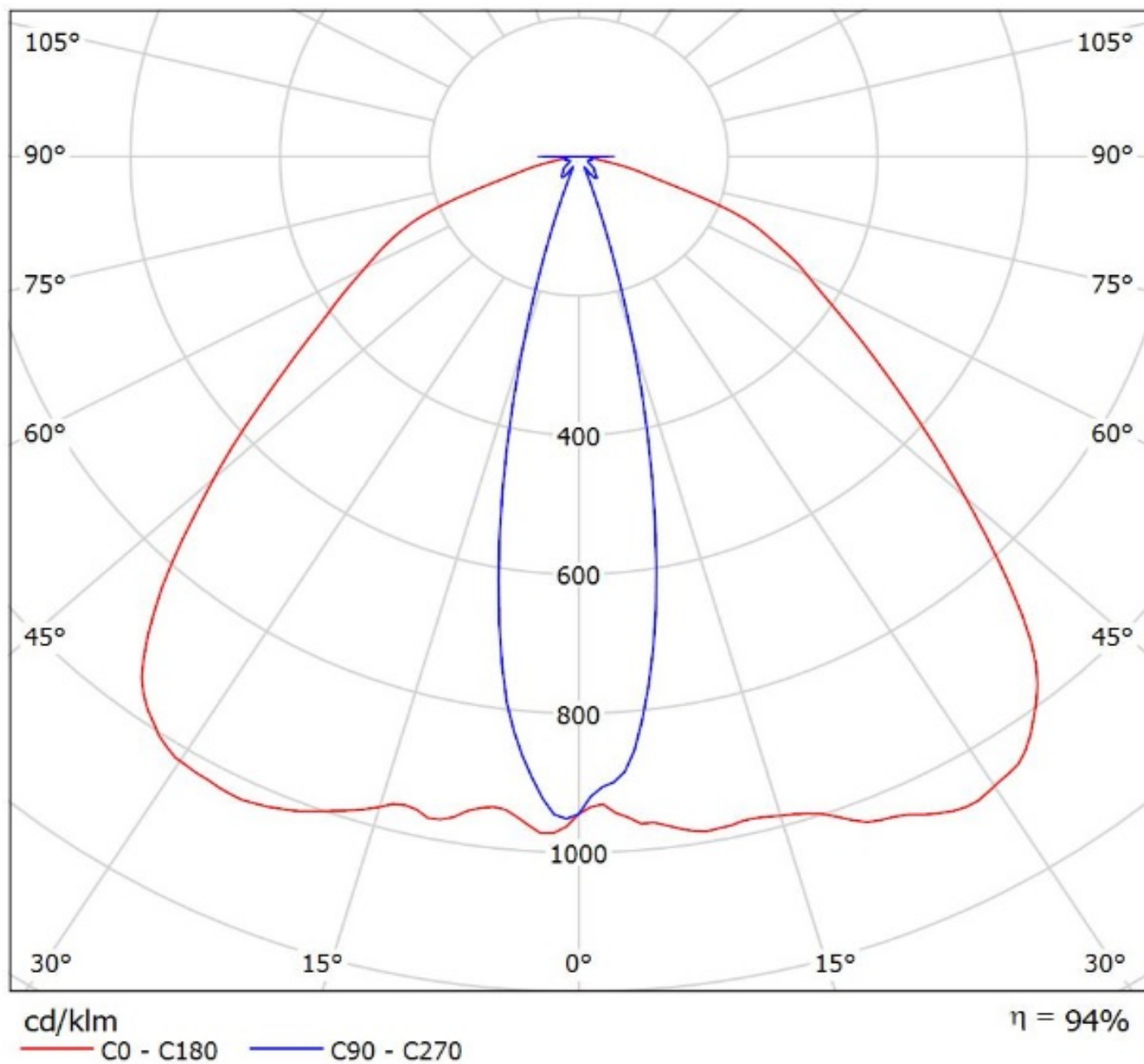


Luminaire: LEDiL Oy C13749_HB-2X2-O_(XP-L)

Lamps: 1 x CREE_XP-L_2x2_(XPLAWT-0-1B0-V40-00-0001)_490lm@250mA_CCT=7600K_P=2.79963W_I=249.9mA

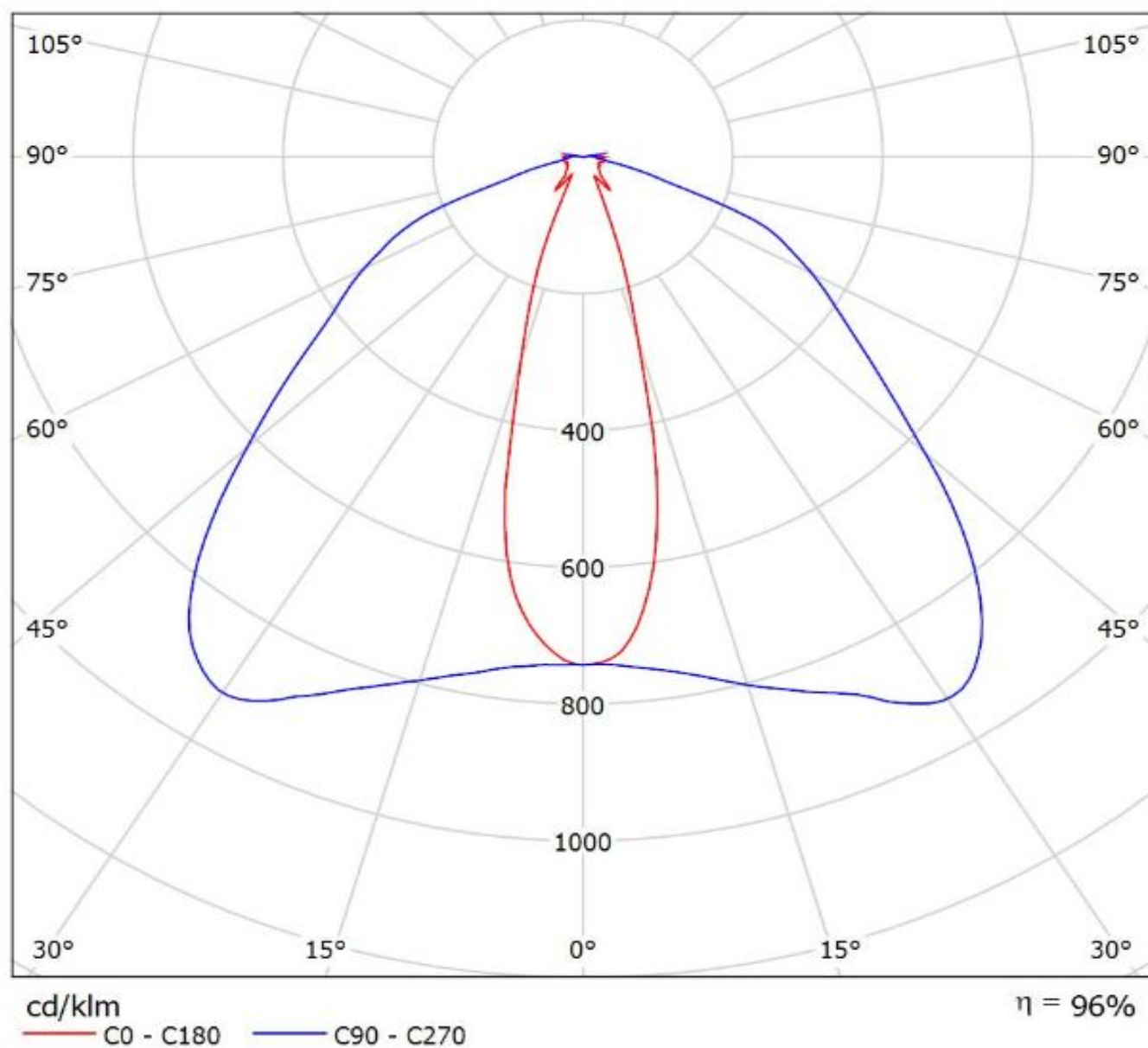


Luminaire: Ledil Oy C13749_HB-2X2-O_(XP-G3)_SIMULATED C13749_HB-2X2-O_(XP-G3)_SIMULATED
Lamps: 1 x Cree XP-G3 - 1.00 W



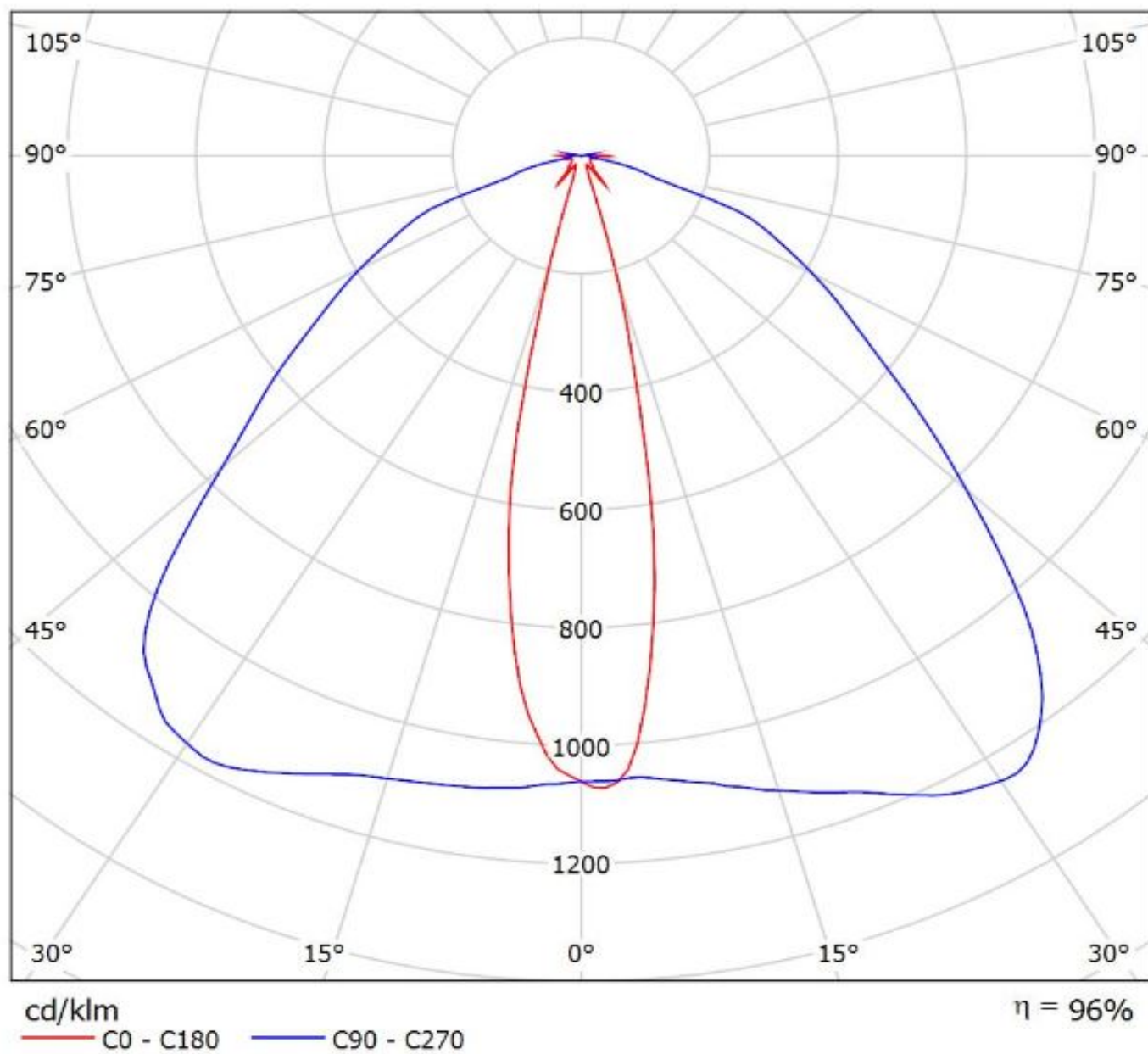
Luminaire: Ledil C13749_HB-2X2-O_(XP-L2)

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



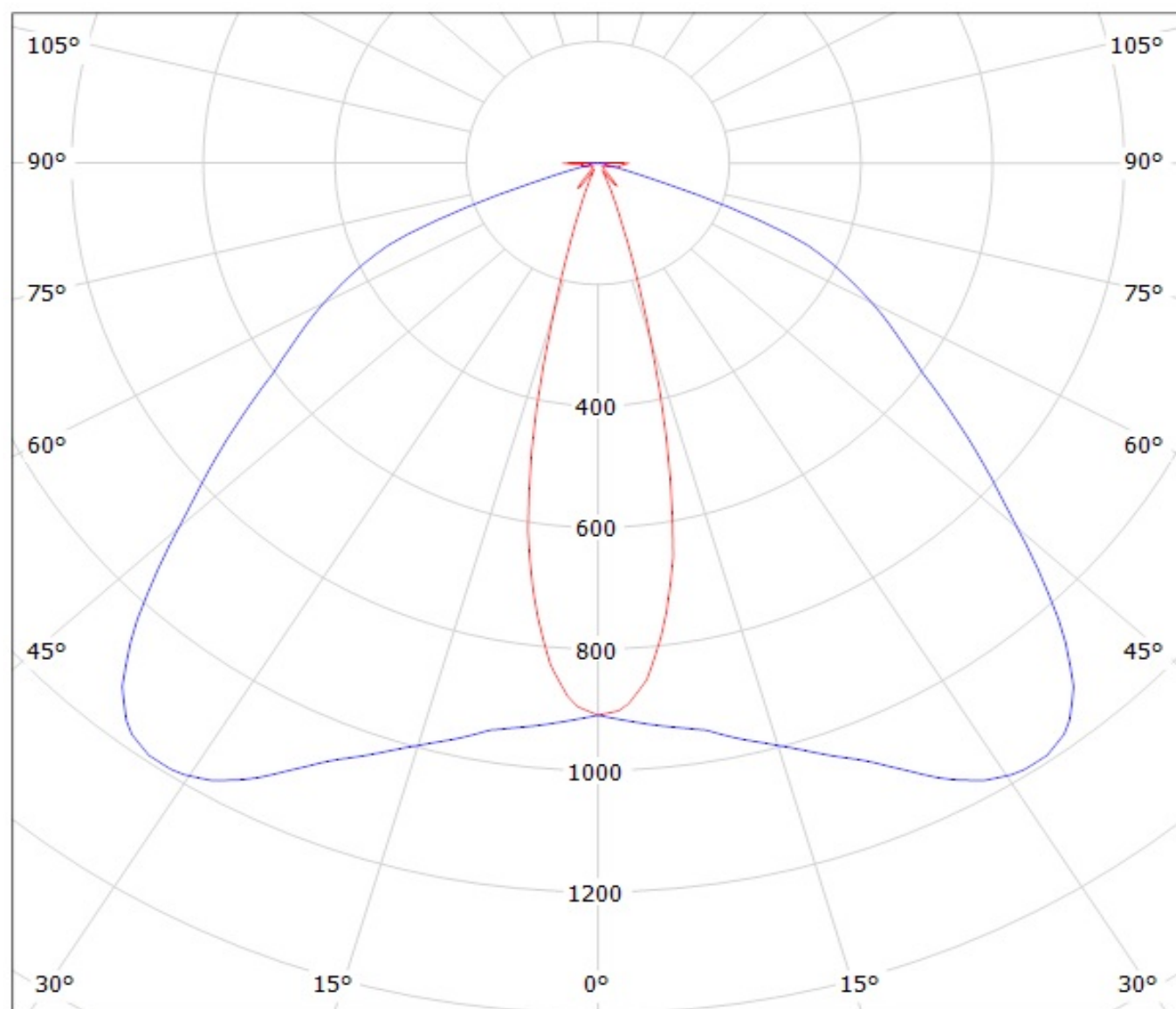
Luminaire: Ledil C13749_HB-2x2-O_(H35C1)

Lamps: 1 x LG_H35C1_2x2_477.216lm@250mA_P=2.87475W_I=0.250A



Luminaire: LEDil Oy C13749 HB-2X2-O (Luxeon T) Efficiency=94%

Lamps: 1 x Luxeon T (LXH8-FW30-3) 289lm @ 250mA CCT=3200K P=2.8W I=250mA



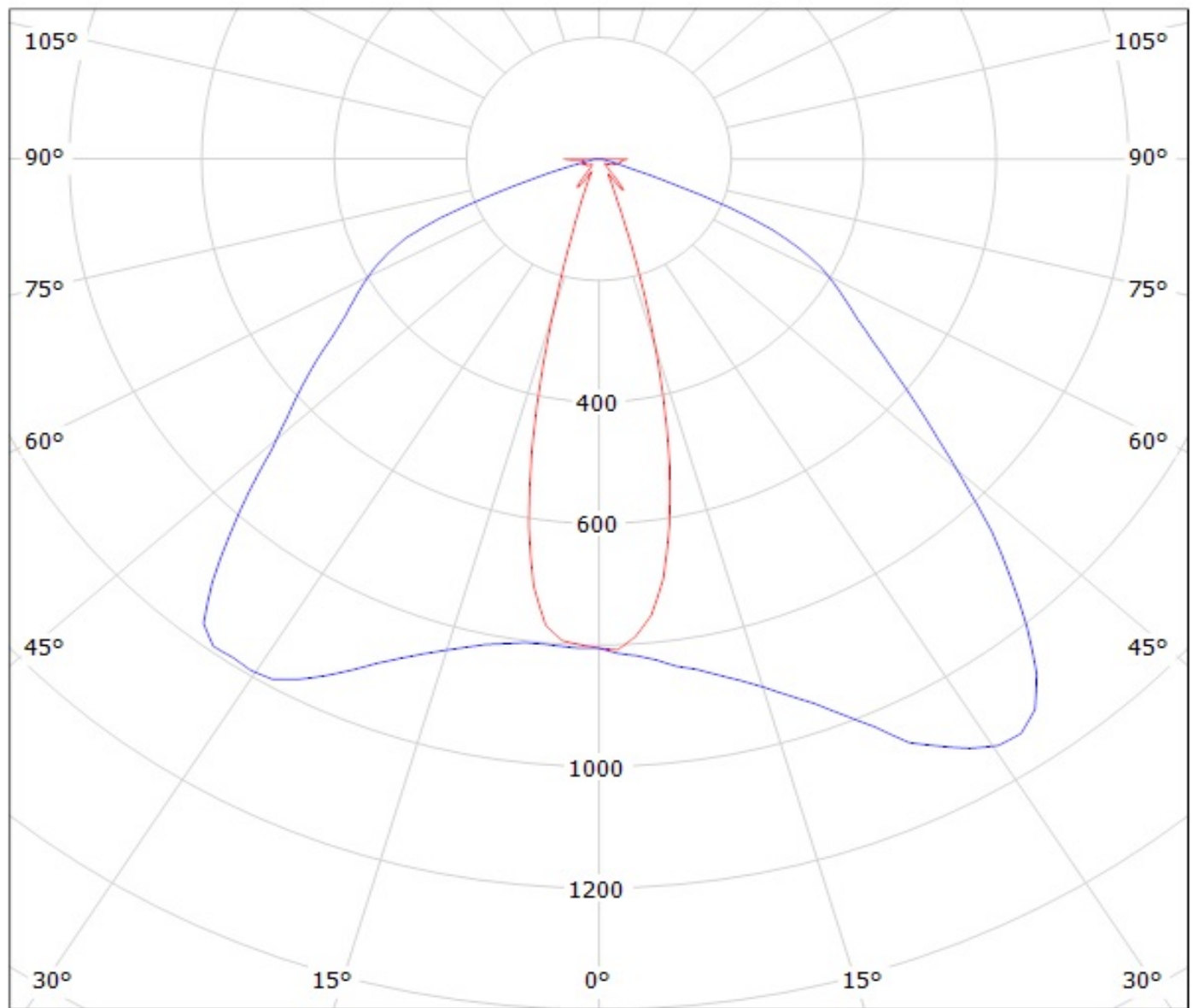
cd/klm

— C0 - C180

— C90 - C270

Luminaire: LEDil Oy C13749_HB-2X2-O_(Luxeon_MZ)

Lamps: 1 x Philips Lumileds Luxeon MZ (413.59lm @ 250mA) P=2.7W I=250mA



cd/klm

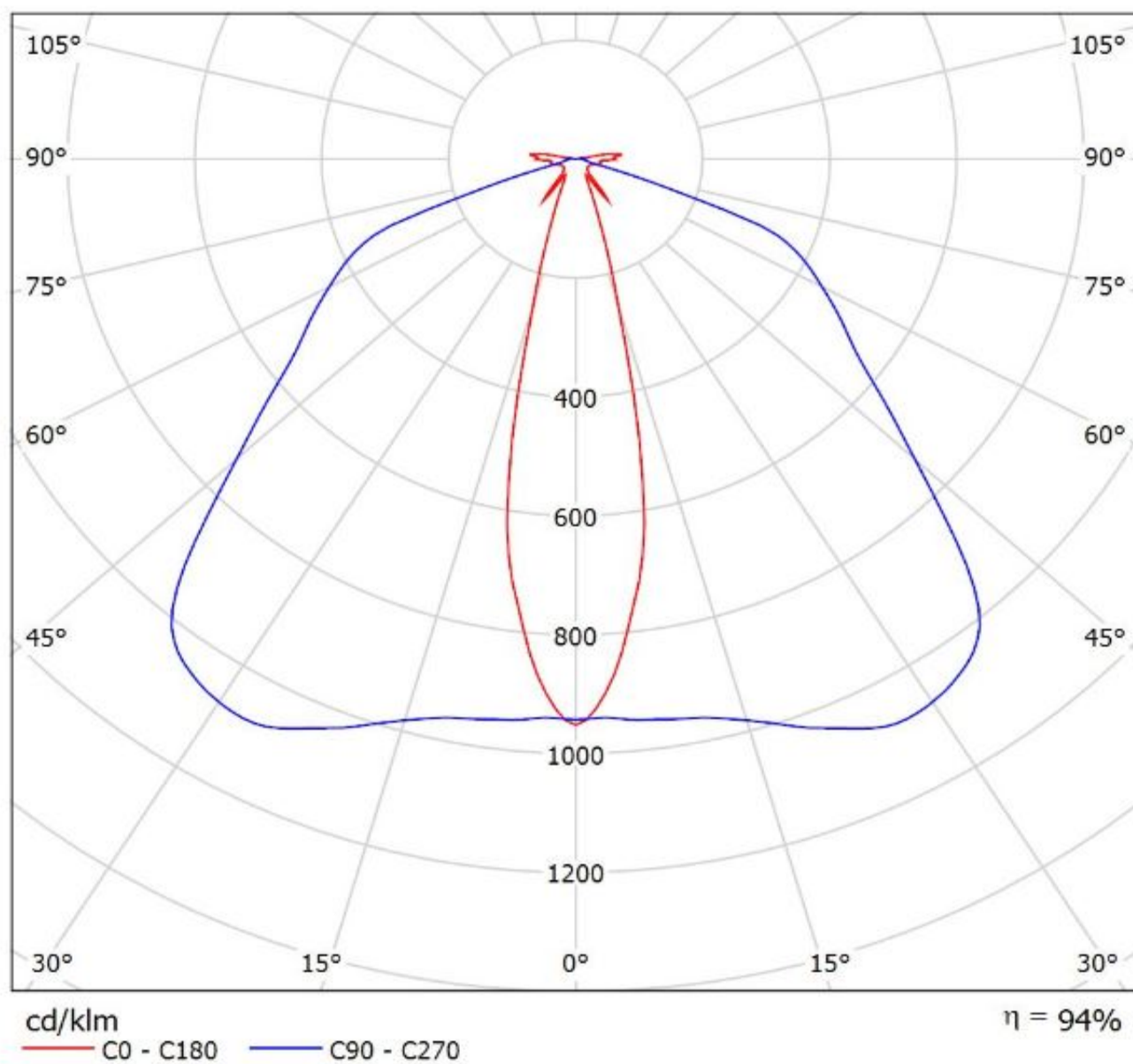
$\eta = 94\%$

— C0 - C180

— C90 - C270

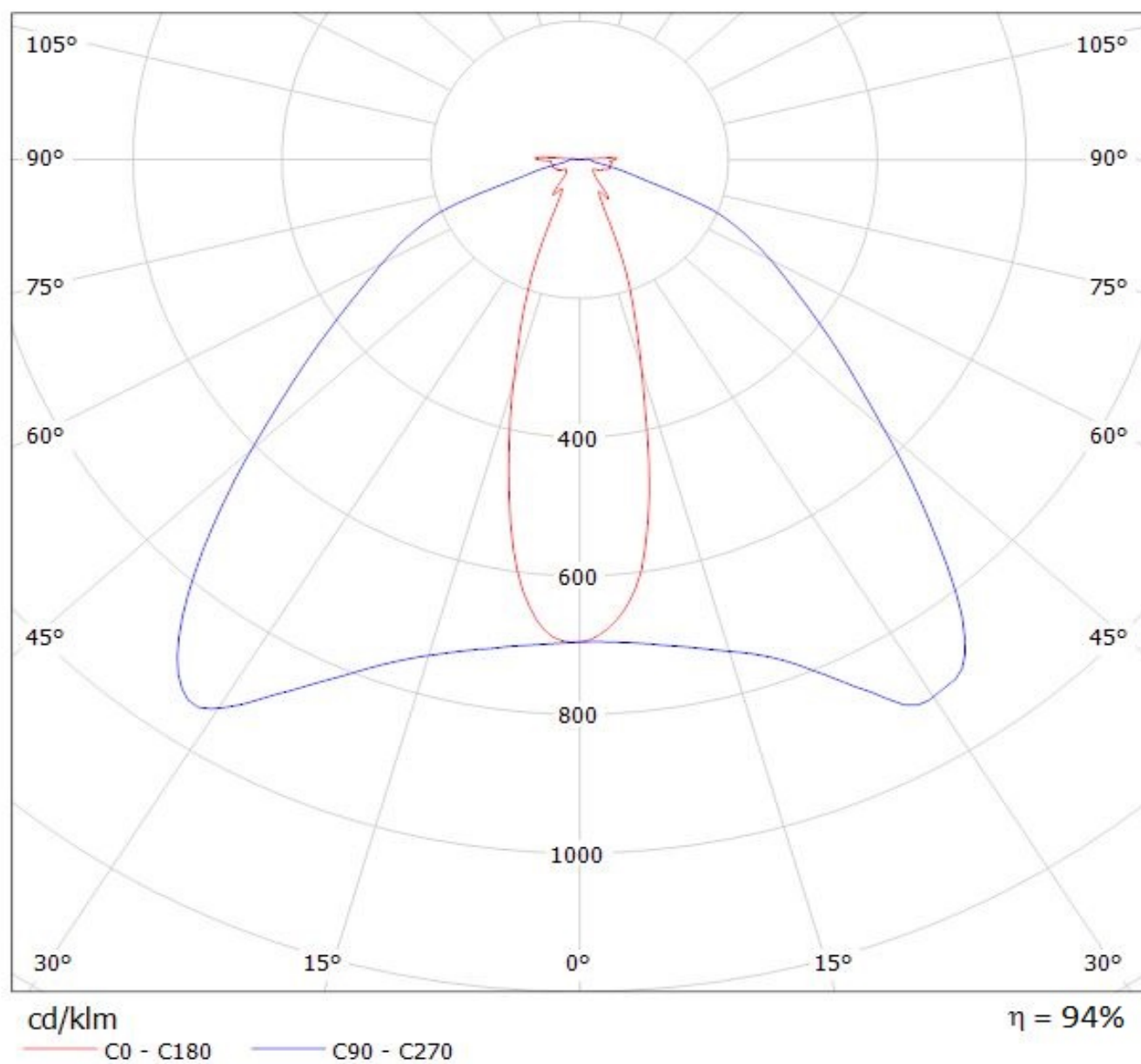
Luminaire: LEDiL Oy C13749_HB-2X2-O_(Luxeon_TX)

Lamps: 1 x Luxeon_TX_2x2_305lm@250mA_P=2.79451W_I=249.8mA

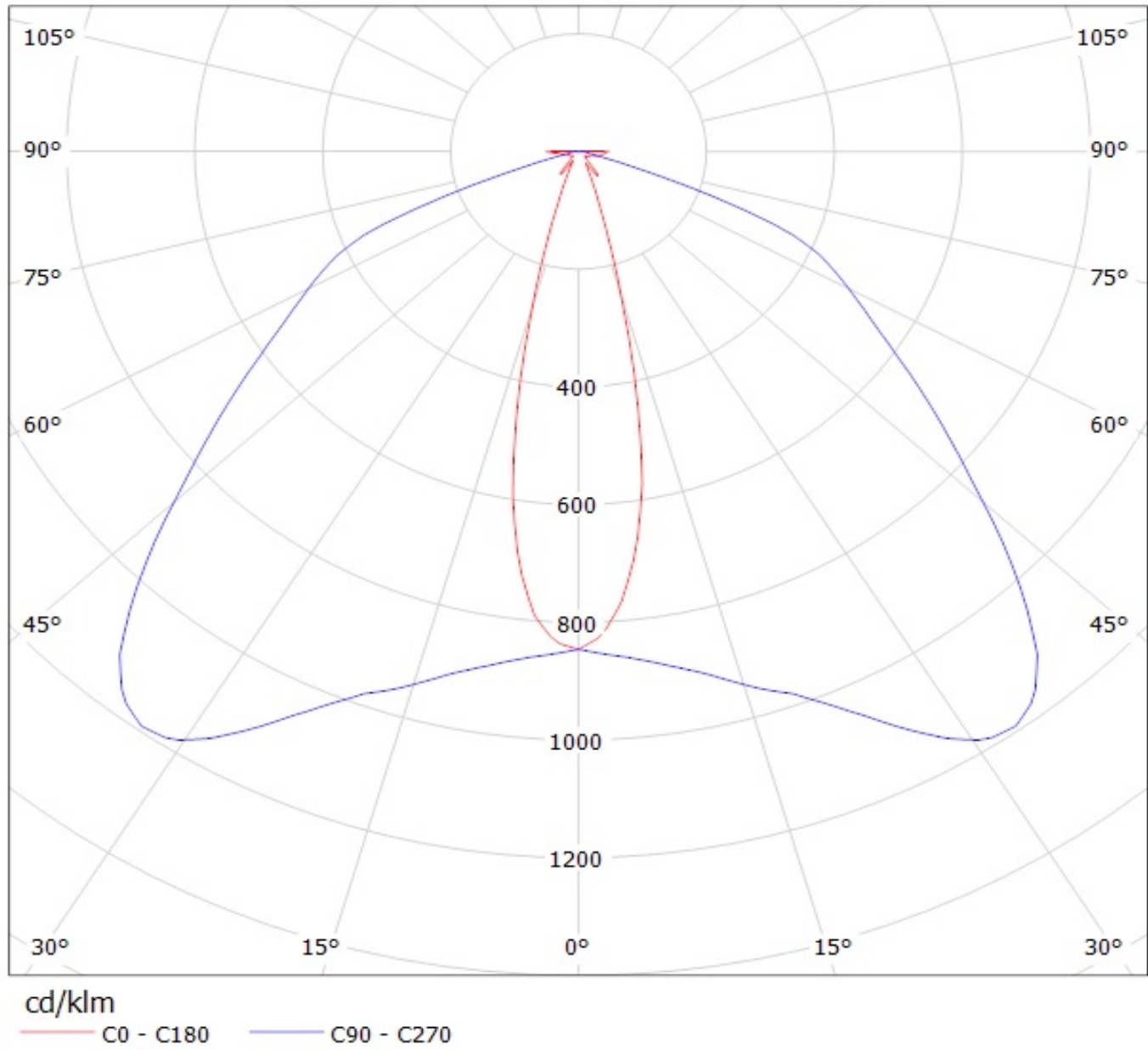


Luminaire: LEDiL Oy C13749_HB-2X2-O_(Luxeon_5050)

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

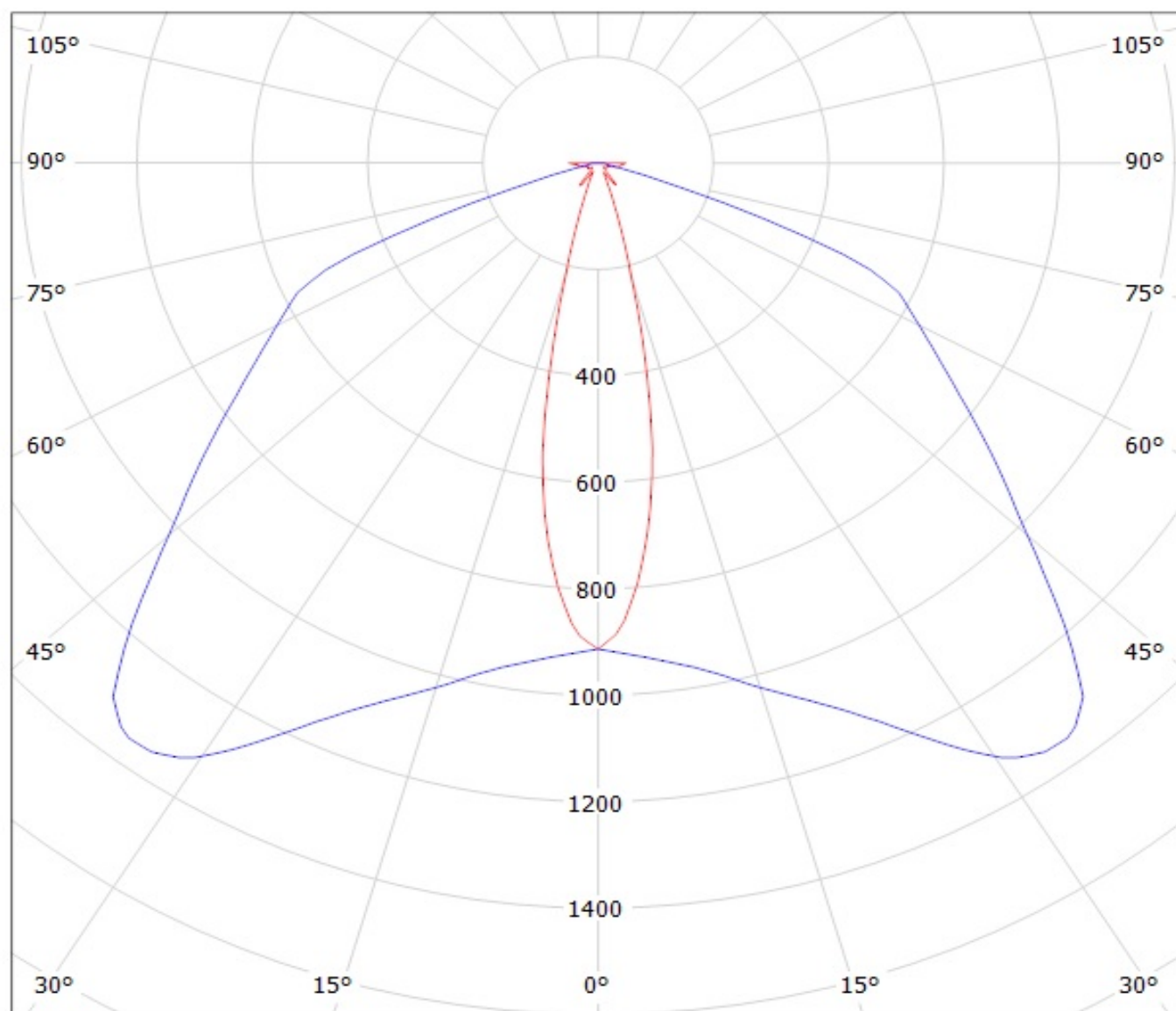


Luminaire: LEDil Oy C13749_HB-2X2-O_(NVSxx19B) Efficiency=94%
Lamps: 1 x Nichia NCSxx19B (NVSL219BE) 315lm @ 250mA CCT=3100K P=2.9W I=250mA



Luminaire: LEDil Oy C13749_HB-2X2-O_(NCSxx19B) Efficiency=94%

Lamps: 1 x Nichia NCSxx19B (NCSW119BE) 425lm @ 250mA CCT=5400K P=3.1W I=250mA



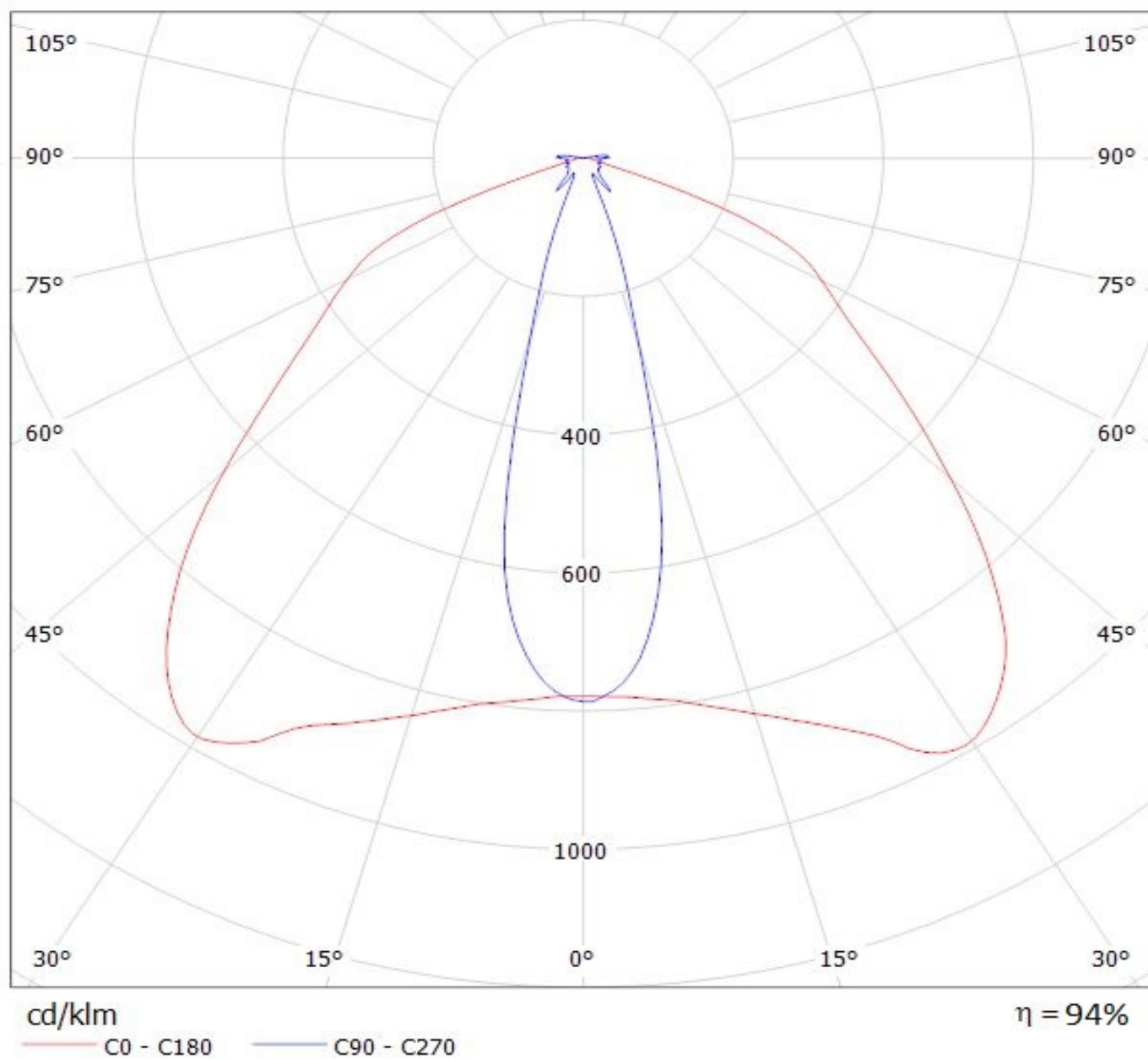
cd/klm

C0 - C180

C90 - C270

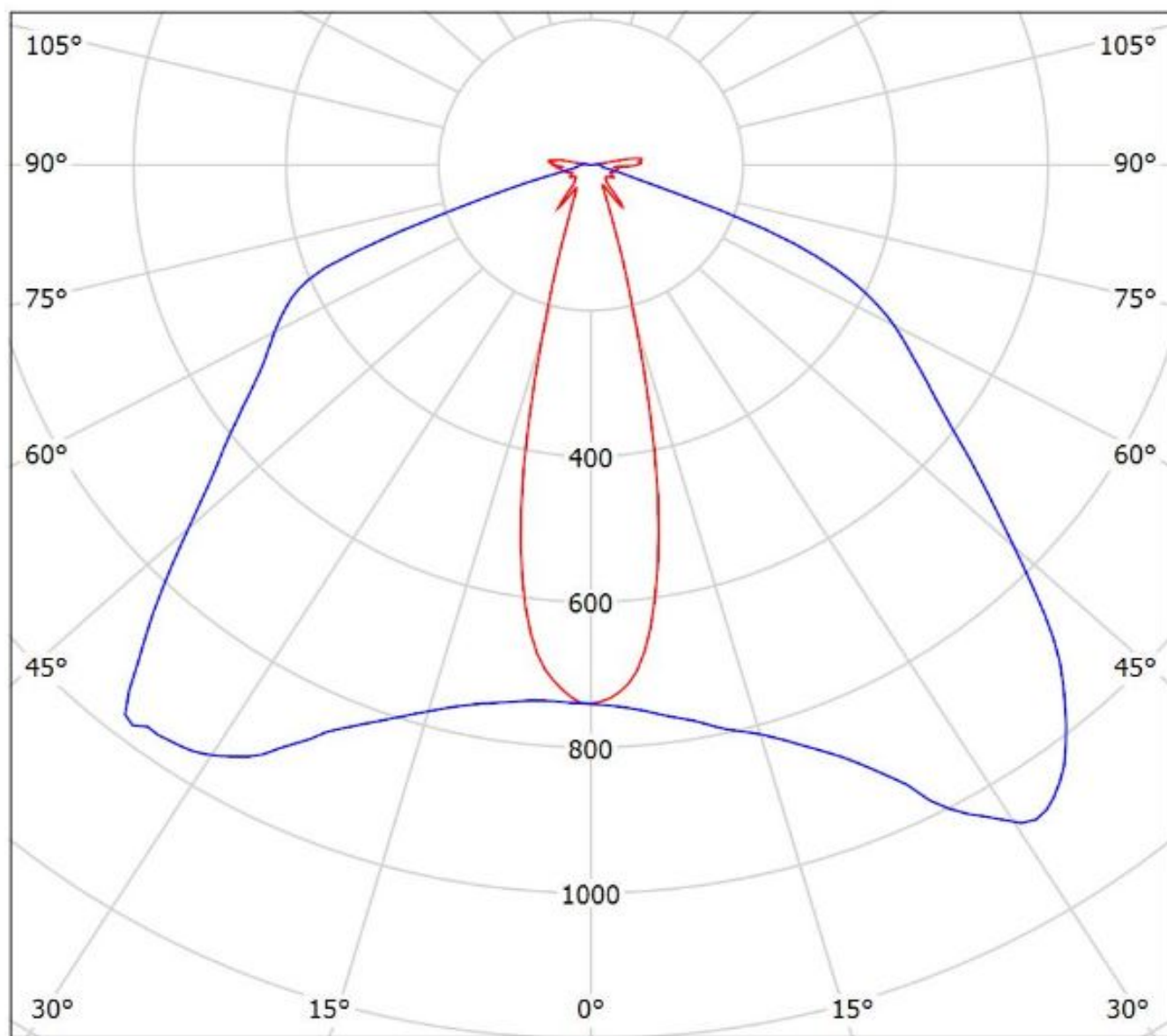
Luminaire: LEDiL Oy C13749_HB-2X2-O_(NWSL229AE)

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



Luminaire: LEDiL Oy C13749_HB-2X2-O_(NVSW3x9A)

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



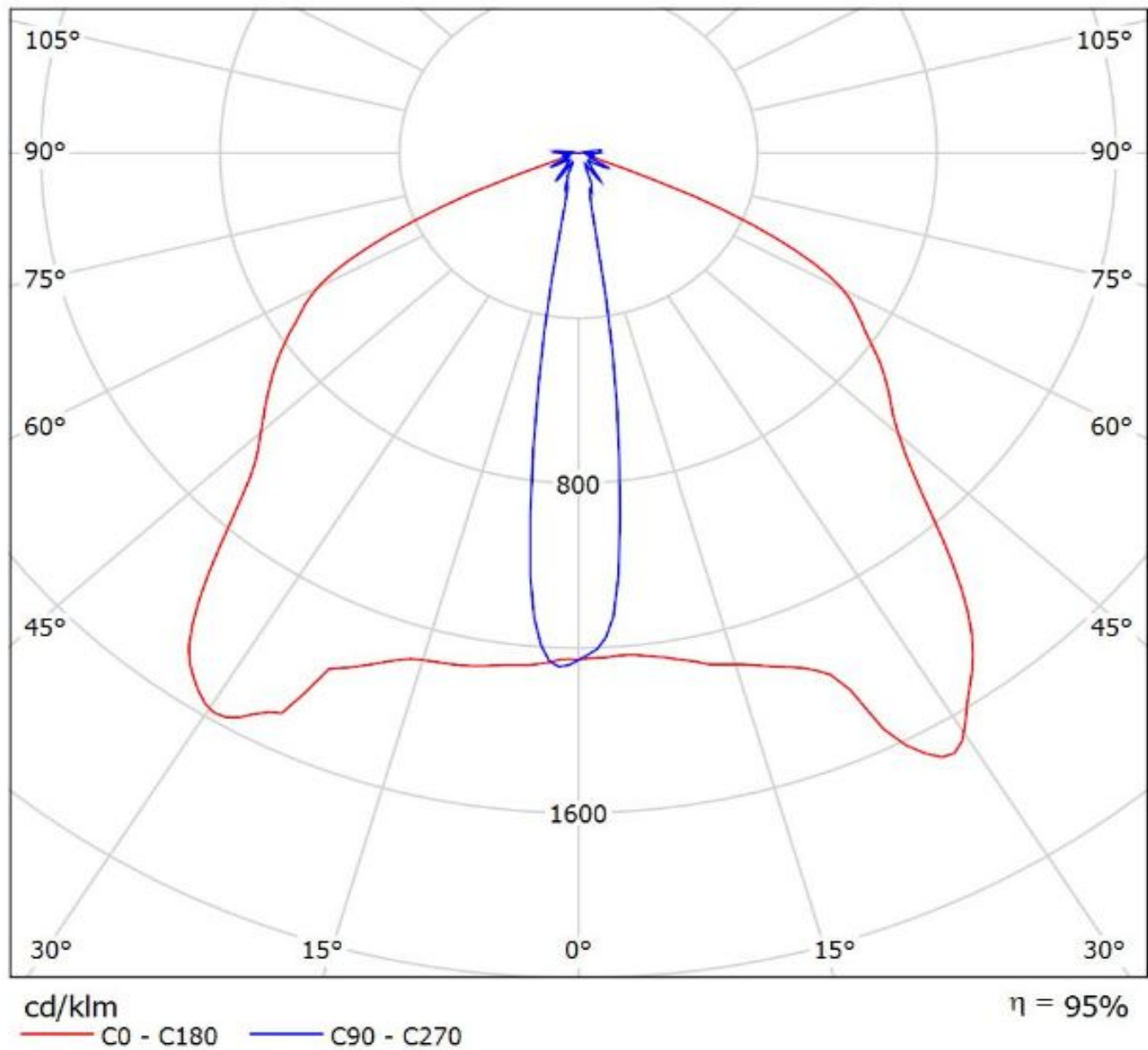
cd/klm

— C0 - C180

— C90 - C270

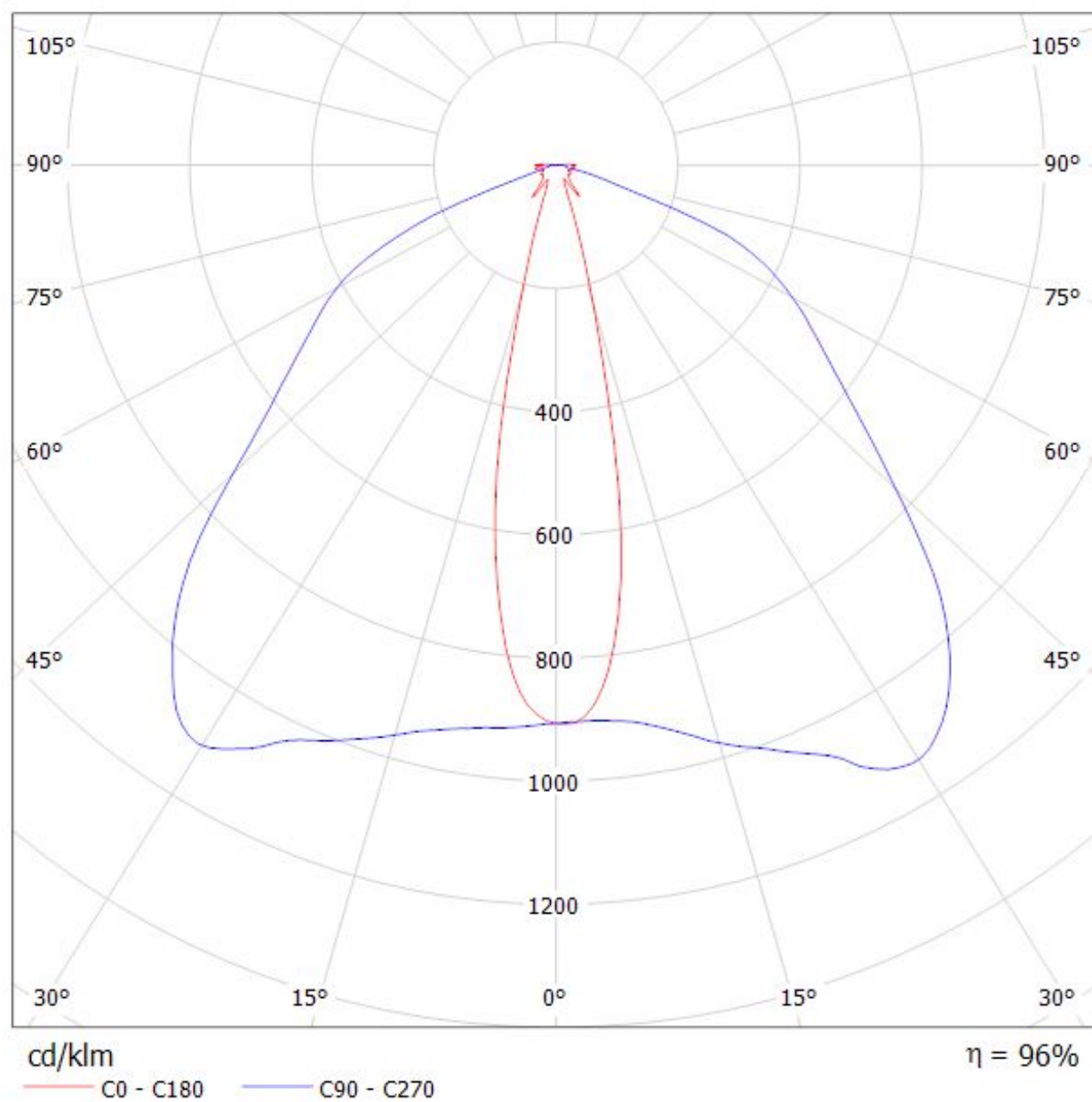
η = 93%

Luminaire: LEDiL Oy C13749_HB-2X2-O_(E21A_2X2)
Lamps: 1 x Nichia_E21A_2X2_451.614lm@250mA_P=2.8045W_I=0.250A



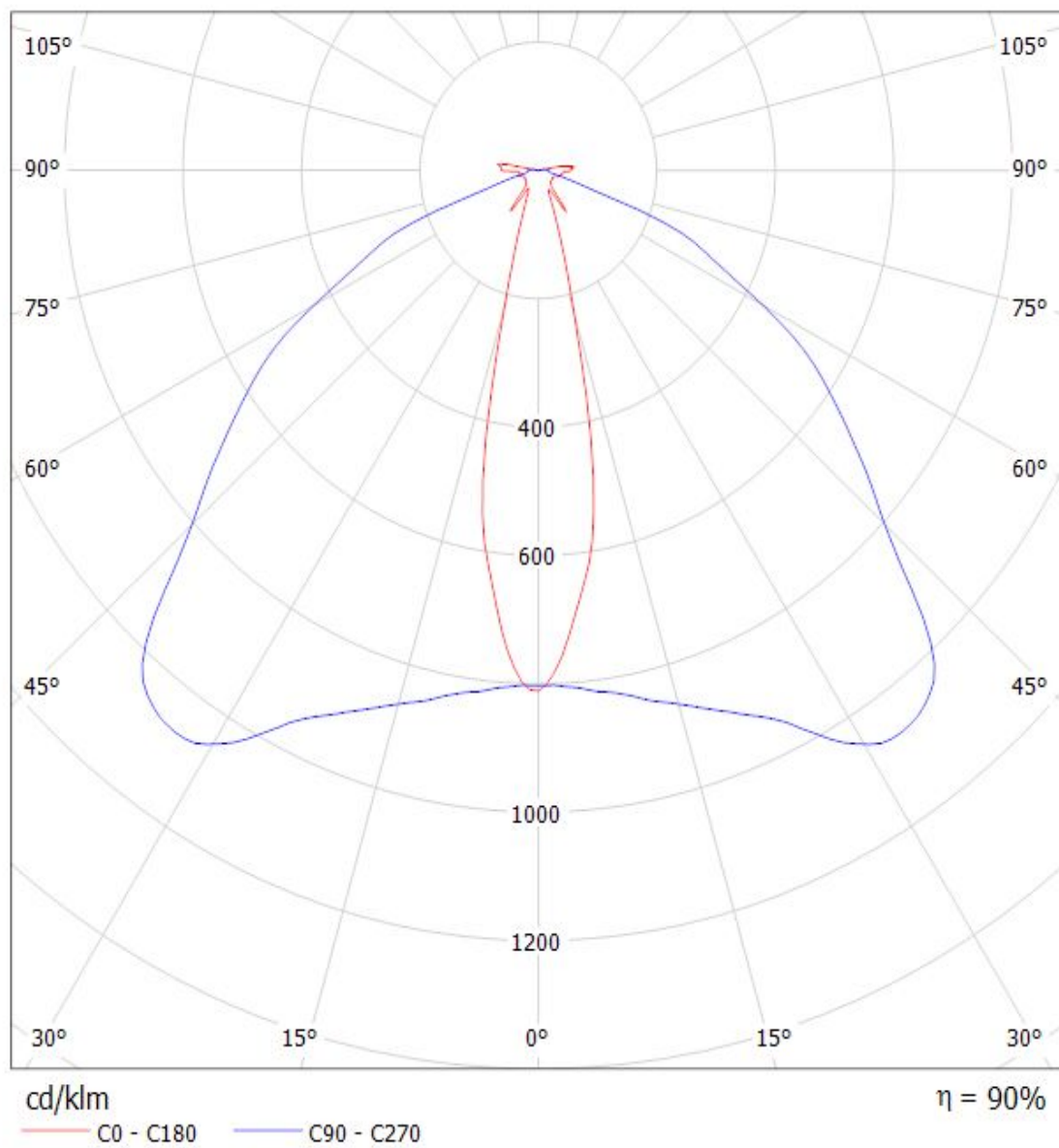
Luminaire: LEDiL Oy C13749_HB-2X2-O_(NVSW319AE)

Lamps: 1 x Nichia_NVSW319AE_499.093lm@250mA_P=2.79052W_I=0.25A

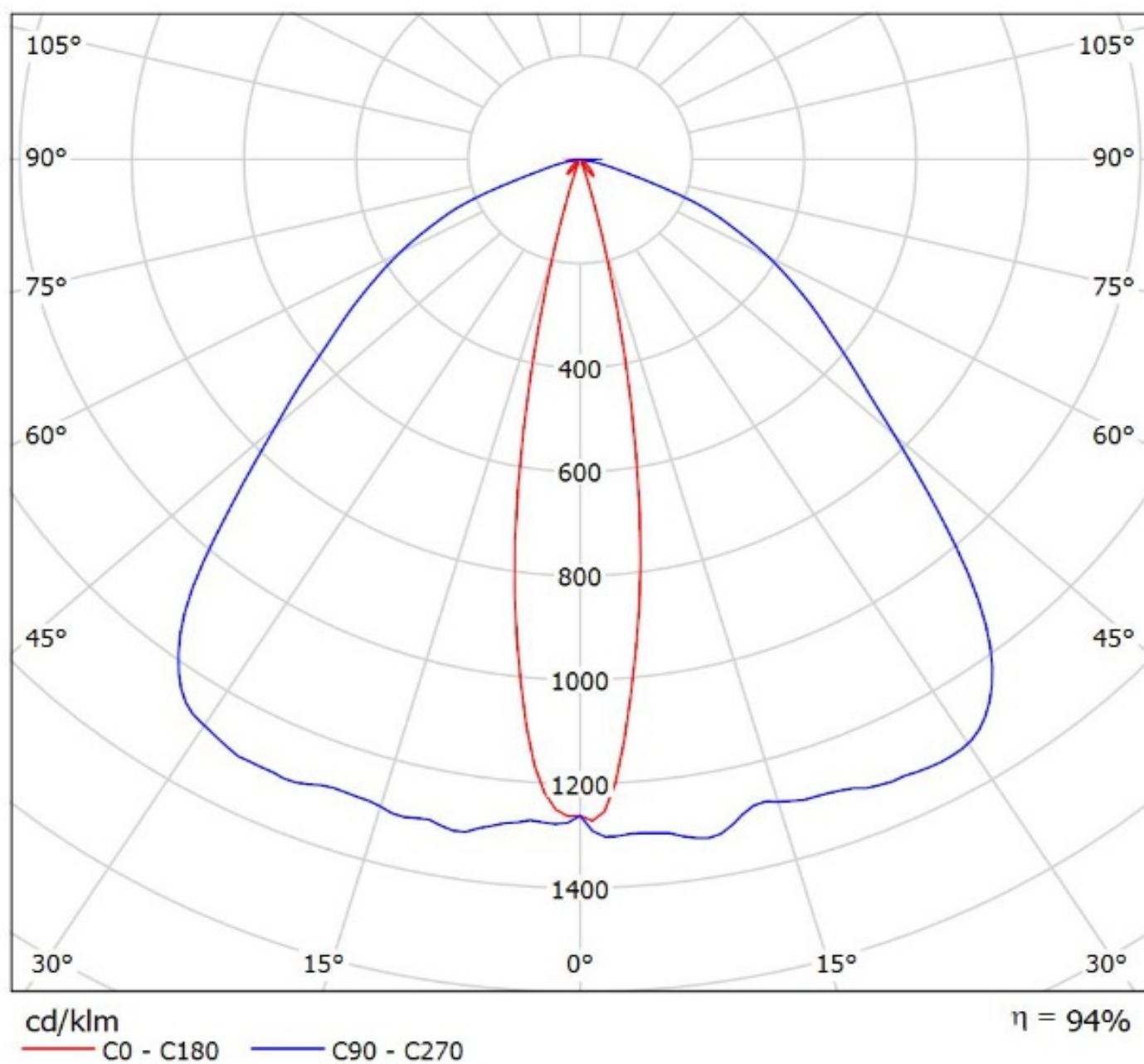


Luminaire: LEDiL Oy C13479_HB-2x2-O_(SQ-PC)

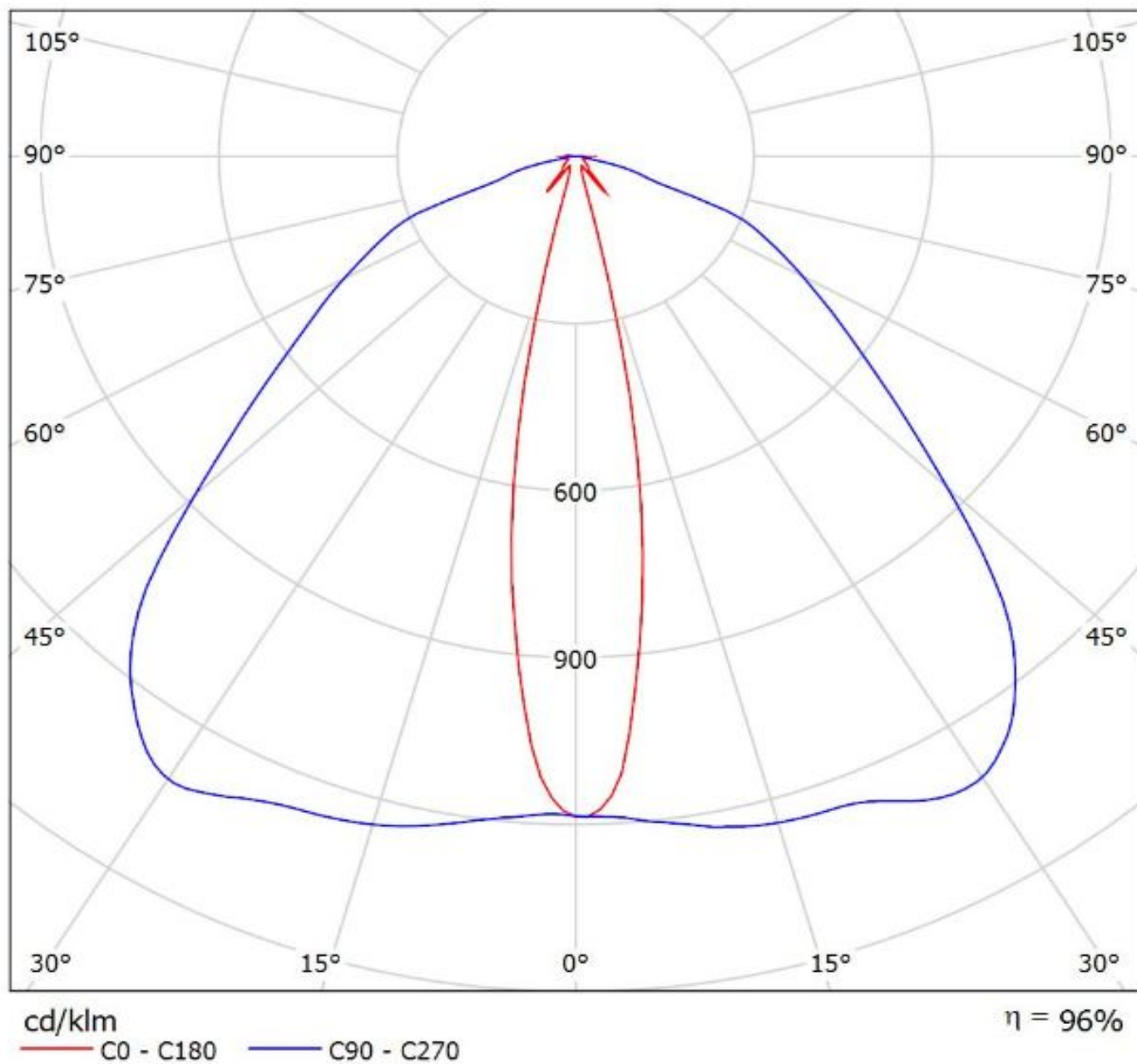
Lamps: 1 x OSRAM_OSLON_SQUARE_PC_2x2_(GWCSSRM1.PC)_414.854lm@250mA_P=2.8626W_CCT=5201K_I=249.9mA



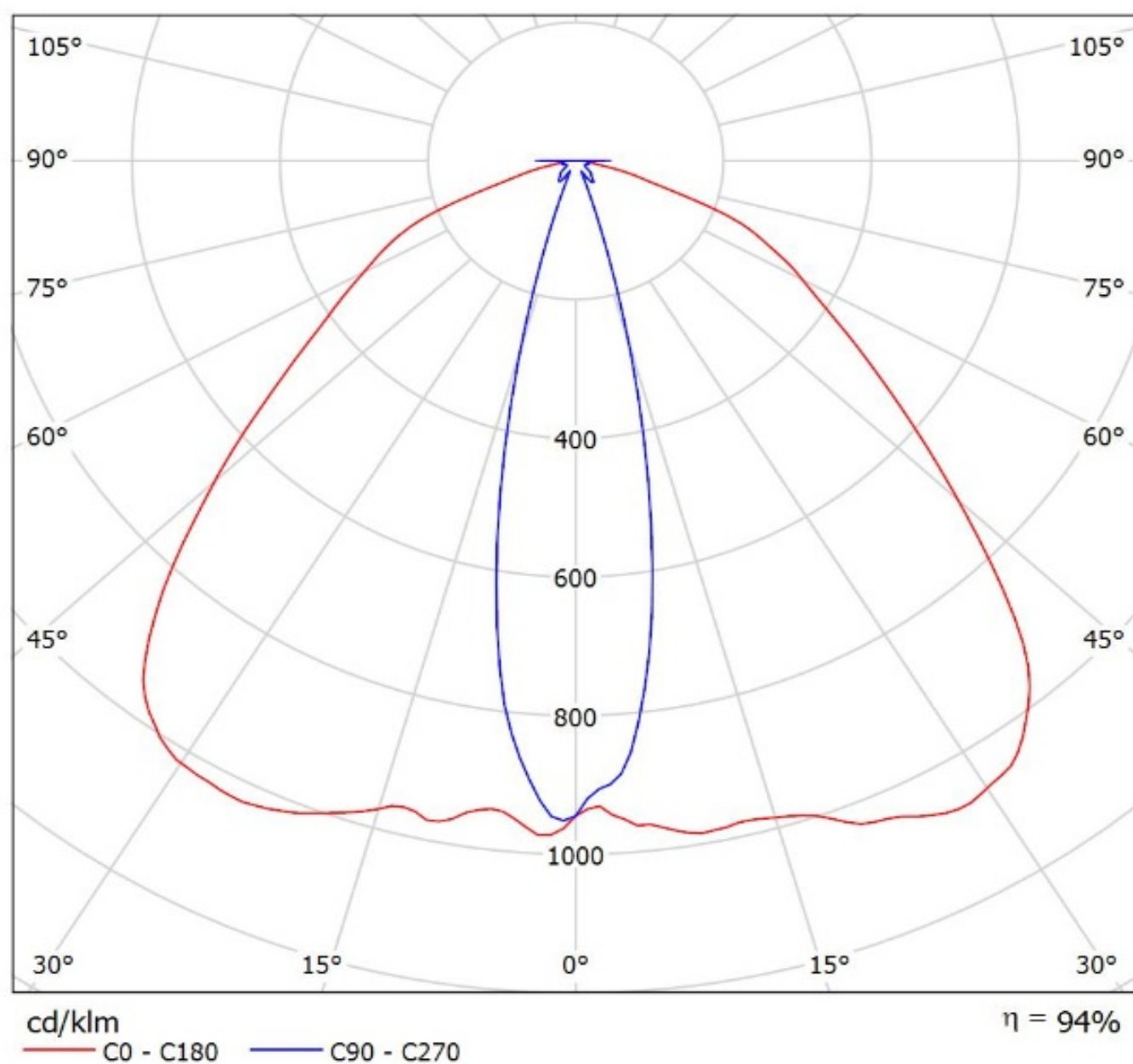
Luminaire: Ledil Oy C13749_HB-2X2-O_(Duris_P8)_SIMULATED
Lamps: 1 x Osram Duris P8



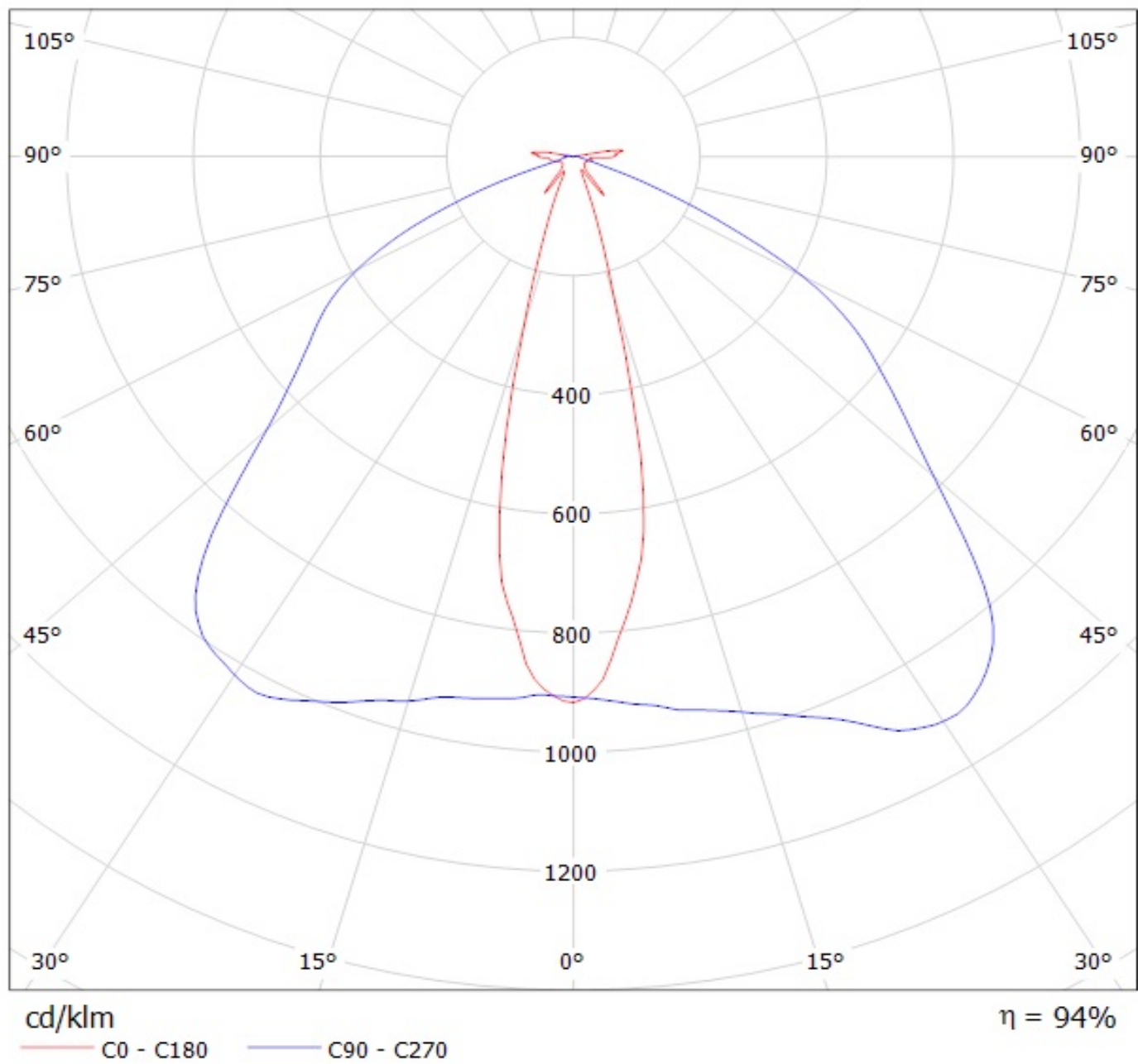
Luminaire: Ledil C13749_HB-2X2-O_(Fortimo_FastFlex_LED_board_2x8/740_DA_G3)
Lamps: 1 x Fortimo_FastFlex_LED_board_2x8/740_DA_G3_1828.23lm@250mA_P=11.667W_I=0.25A



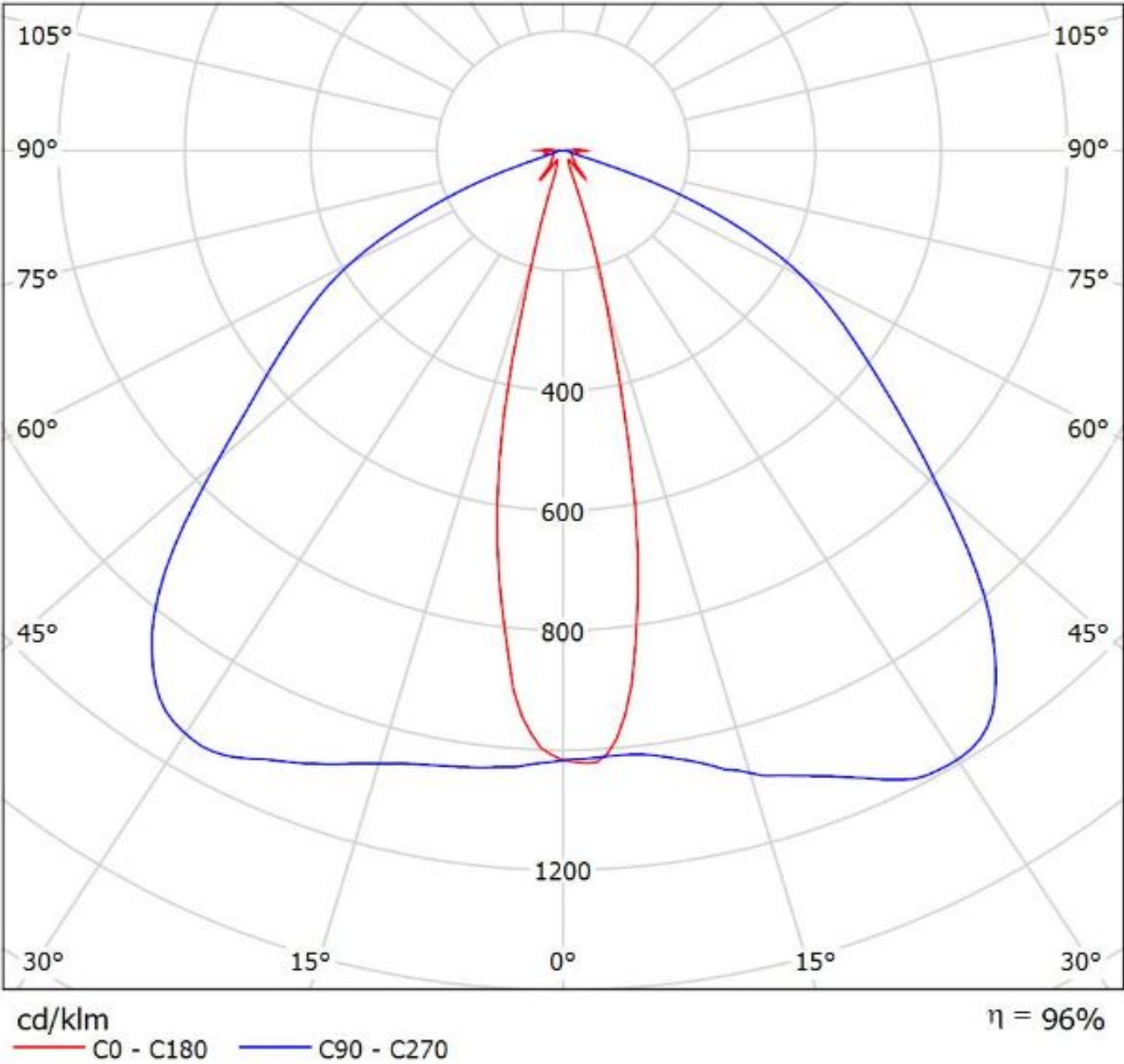
Luminaire: Ledil Oy C13749_HB-2X2-O_(Fortimo FastFlex LED board 2x8 DAX G4)_SIMULATED
C13749_HB-2X2-O_(Fortimo FastFlex LED board 2x8 DAX G4)_SIMULATED
Lamps: 1 x Fortimo FastFlex LED board 2x8 DAX G4



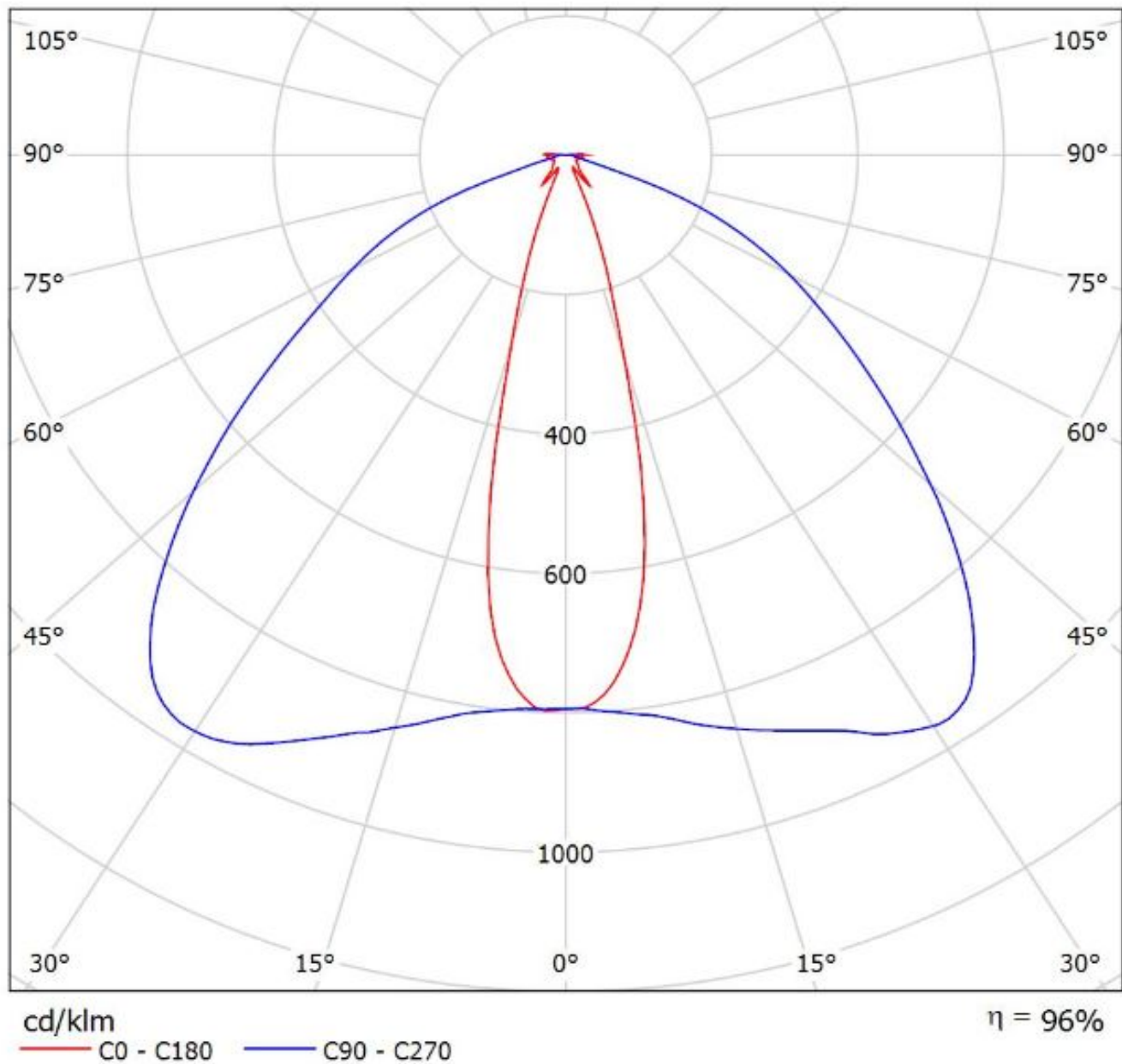
Luminaire: LEDiL Oy C13749_HB-2X2-O_(LH351Z)
Lamps: 1 x SAMSUNG_LH351Z_2x2_361.9lm@250mA_P=2.86371W_I=249.8mA



Luminaire: Ledil C13749_HB-2X2-O_(LH351B)
Lamps: 1 x Samsung_LH351B_2x2_444.178lm@250mA_P=2.8535W_I=0.25A

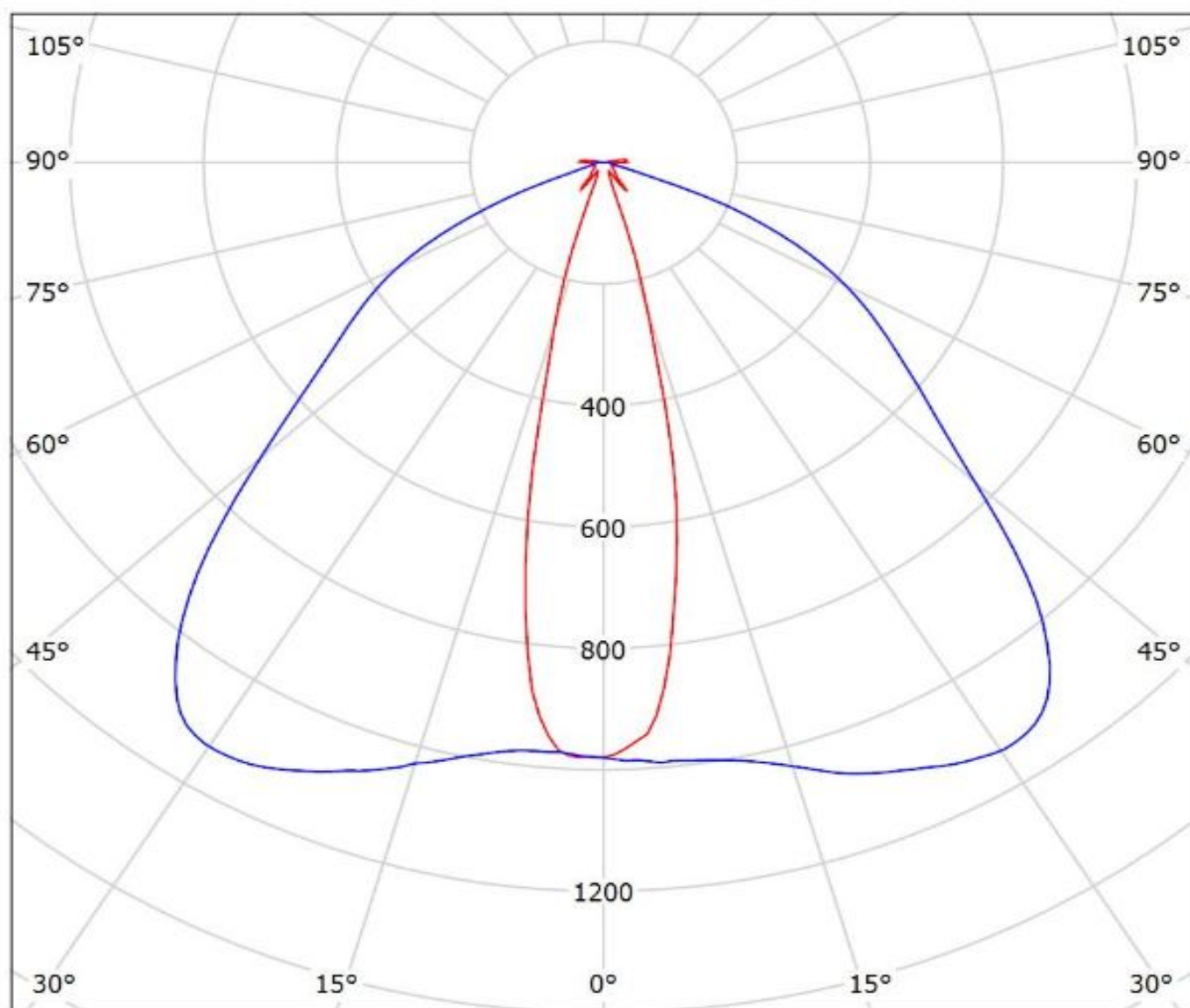


Luminaire: Ledil C13749_HB-2X2-O_(LH351D)
Lamps: 1 x Samsung_LH351D_536.957lm@250mA_P=2.7695W_I=0.250A



Luminaire: Ledil C13749_HB-2X2-O_(LH351C)

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

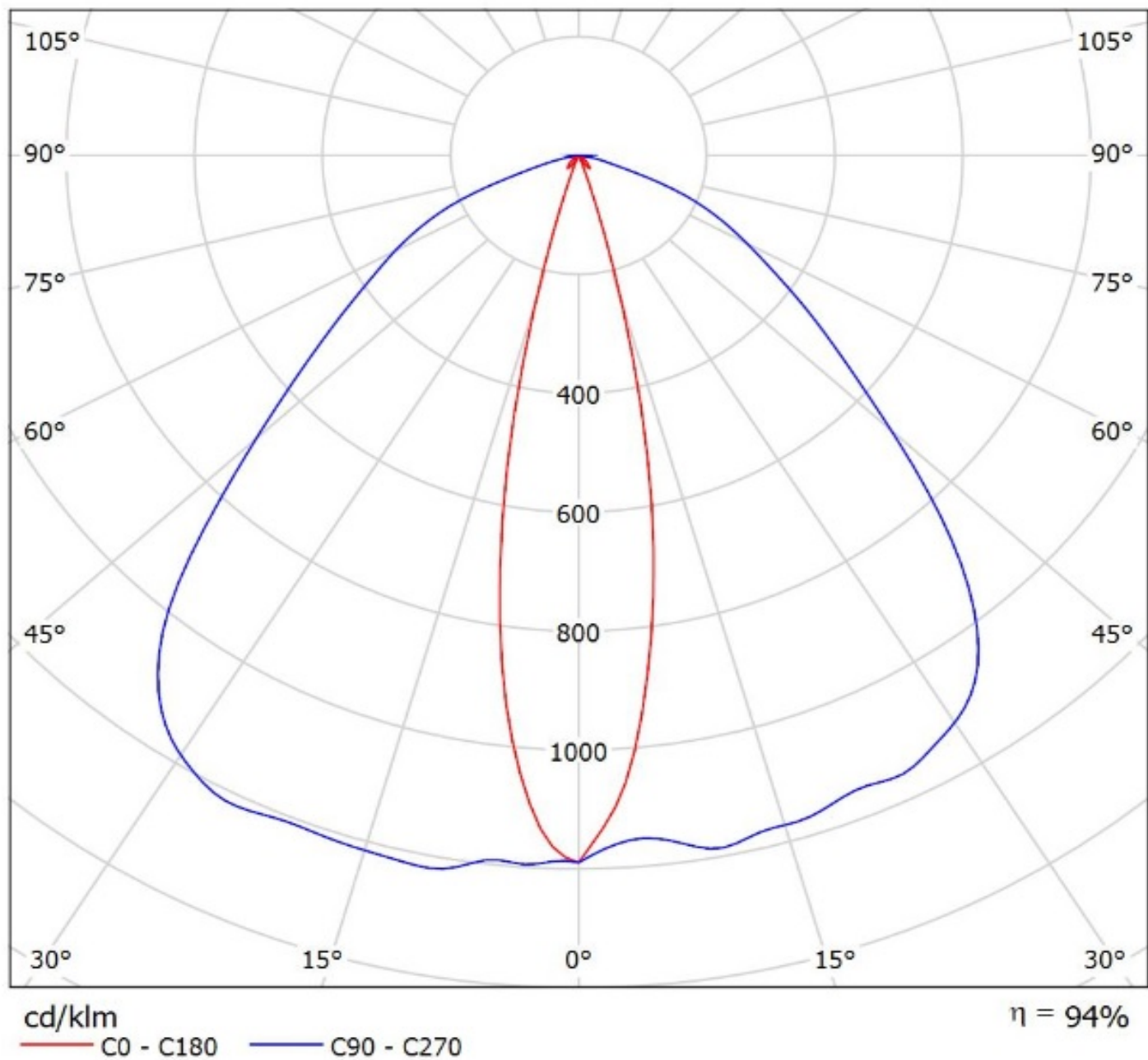


cd/klm

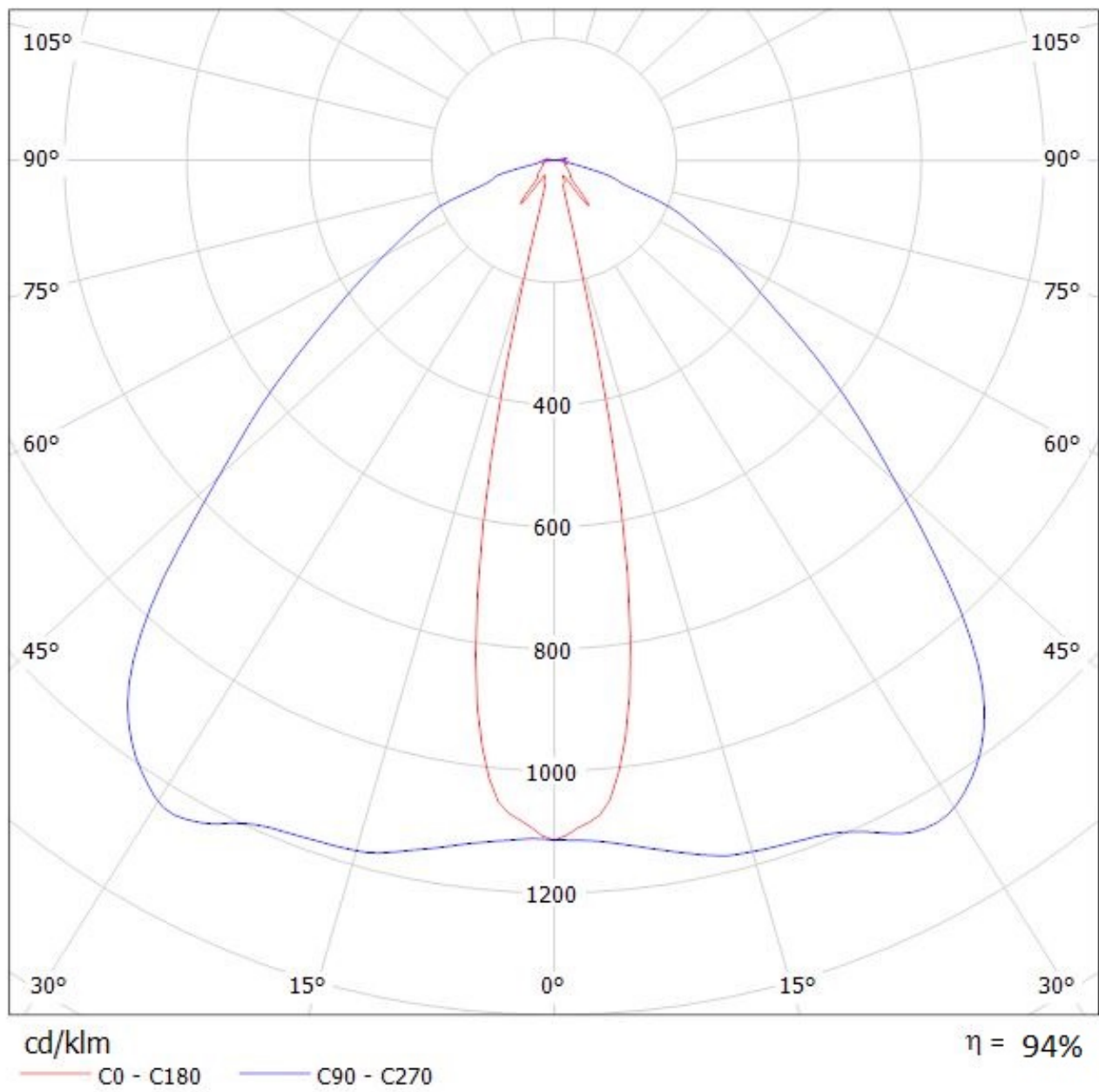
— C0 - C180 — C90 - C270

$\eta = 97\%$

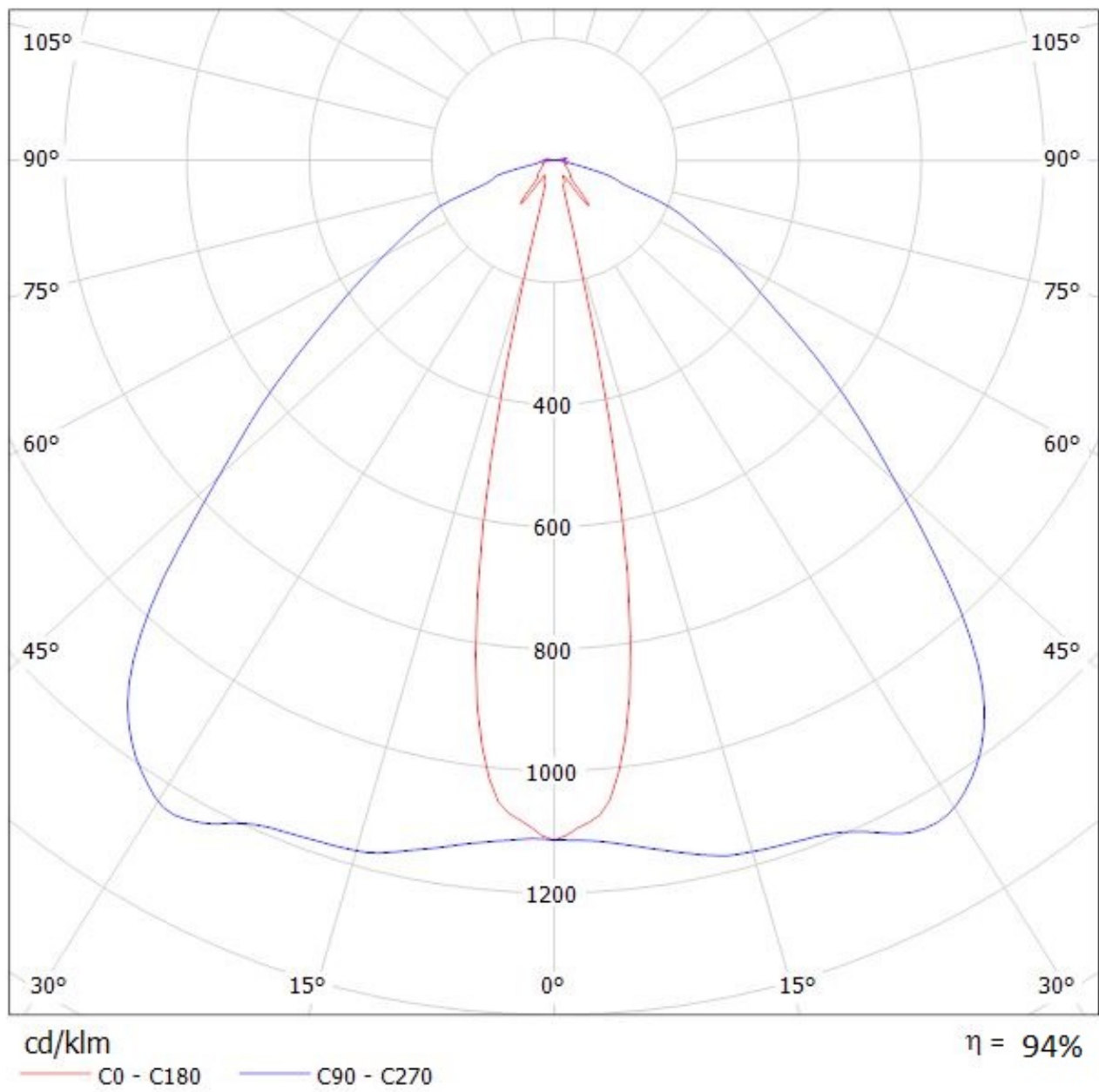
Luminaire: Ledil Oy C13749_HB-2X2-O_(Z5M2)_SIMULATED
Lamps: 1 x Seoul Z5M2 (SZ5-M2-W0-00)



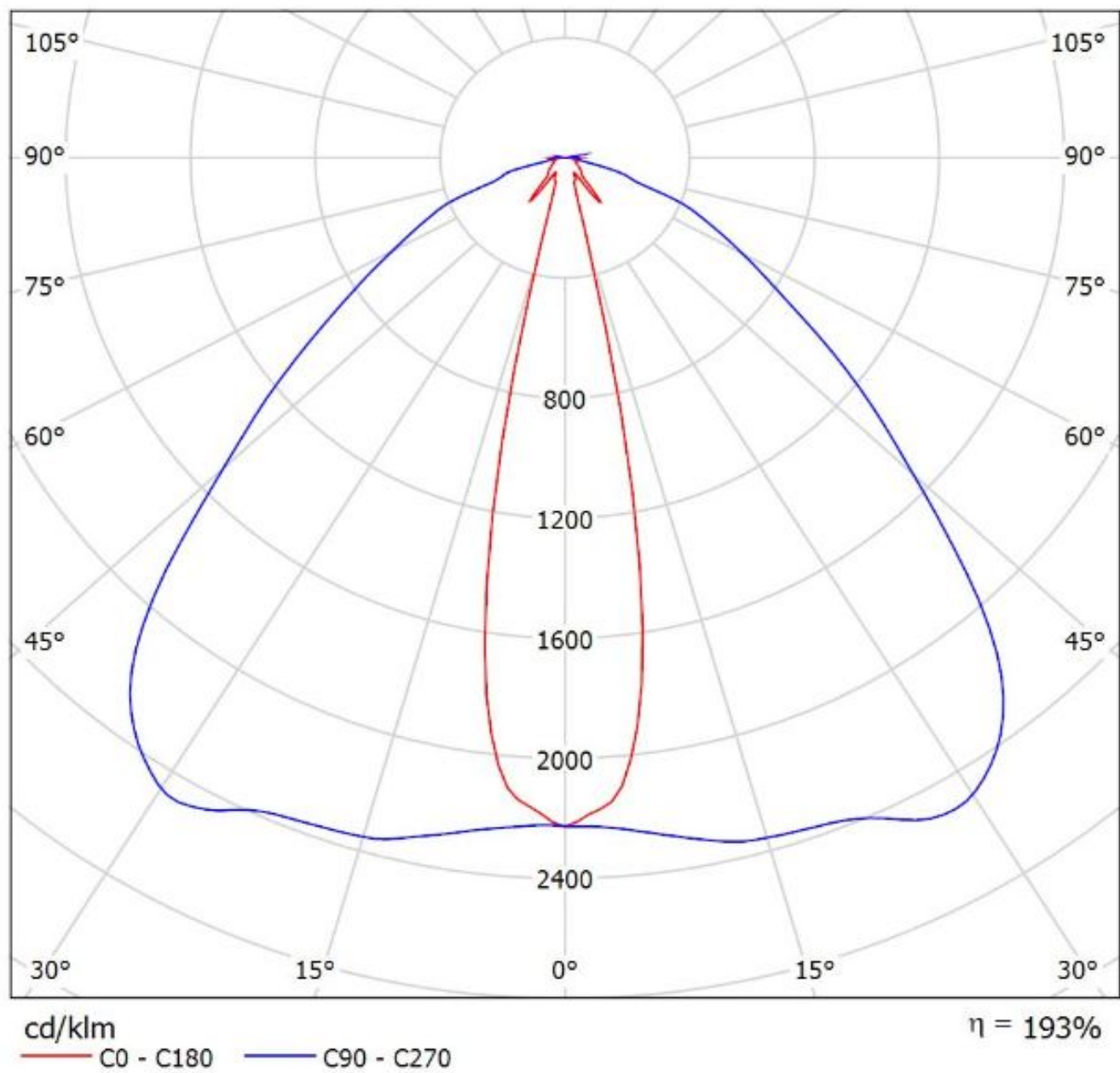
Luminaire: LEDiL Oy C13749_HB-2X2-O_(Tridonic_Module_RLE_G1)
Lamps: 1 x Tridonic_Module_RLE_G1_4576.03lm@700mA_P=32.0681W_I=0.700A



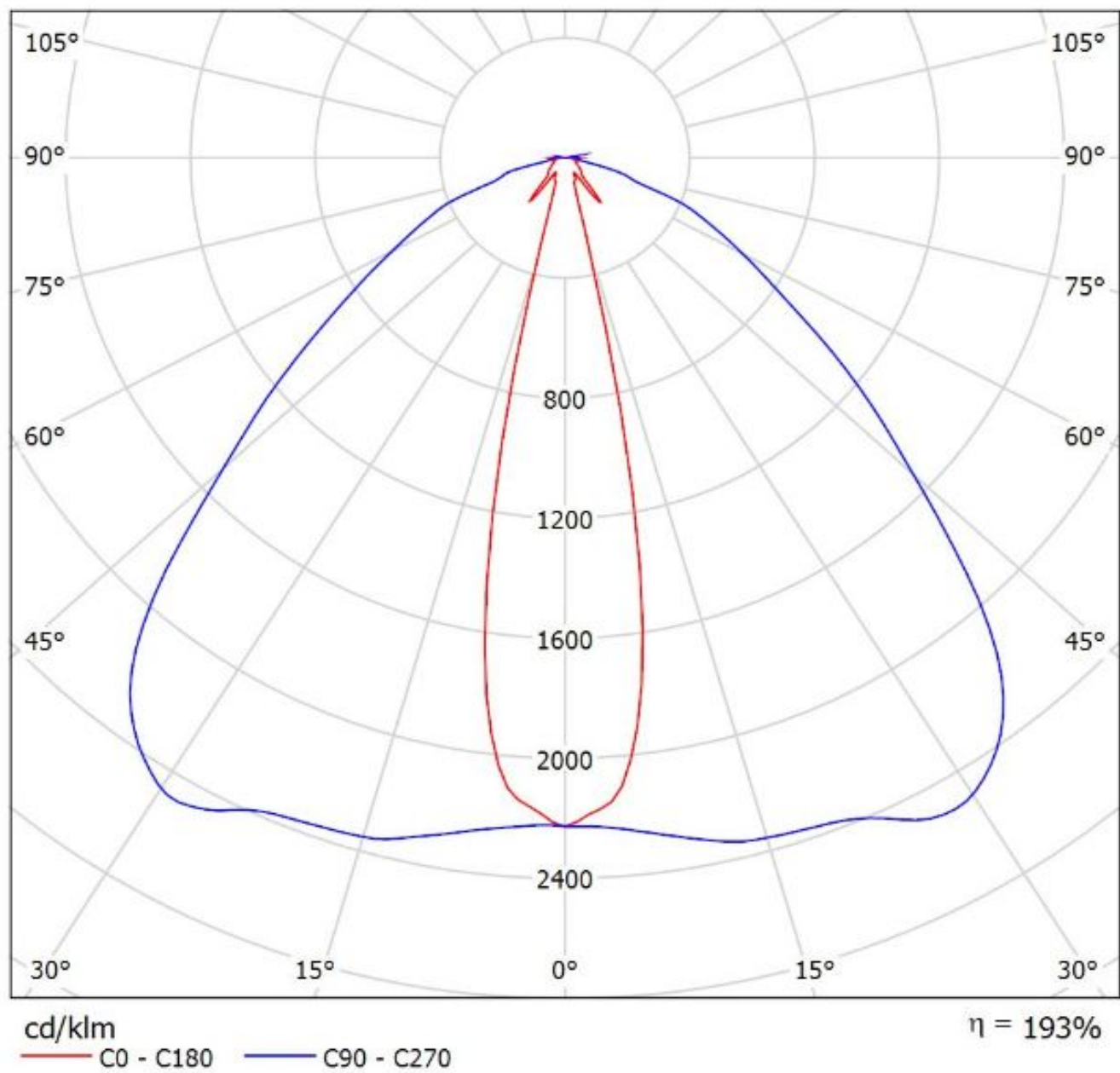
Luminaire: LEDiL Oy C13749_HB-2X2-O_(Tridonic_Module_RLE_G1)
Lamps: 1 x Tridonic_Module_RLE_G1_4576.03lm@700mA_P=32.0681W_I=0.700A



Luminaire: LEDiL Oy C13749_HB-2X2-O_(Tridonic_Module_RLE_G1)
Lamps: 1 x Tridonic_Module_RLE_G1_2288lm@700mA_P=16W_I=0.700A



Luminaire: LEDiL Oy C13749_HB-2X2-O_(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.