PRODUCT DATASHEET
HighBay series
last update 21/4/2016

DETAILS



Product Number	C13232_HB-2X2-WW
Family	HighBay
Type	Lens array
Color	clear
Diameter	50x50 mm
Height	8,5 mm
Style	square
Optic Material	PMMA
Holder Material	
Fastening	screw, pin, glue
Status	production ready
ROHS Compliant	Yes
Date Updated	21/04/2016

OPTICAL PROPERTIES

LED	Viewing Angle	Light Beam	Effi-ciency	cd/lm	Connector
XT-E	65 deg	Wide	91 %	0.900	-
XP-G2	69 deg	Wide	91 %	0.700	-
XP-G	69 deg	Wide	91 %	0.800	-
H35C1 (LEMWA33)	68 deg	Wide	89 %	0.800	-
LUXEON Z ES	59 deg	Wide	90 %	1.000	-
LUXEON Q	67 deg	Wide	91 %	0.800	-
LUXEON 3030 2D	sim: 64	Wide	sim: 94 %	sim: 0.960	-
NVSxx19B/NVSxx19C	67 deg	Wide	91 %	0.800	-
NVSxE21A	54 deg	Wide	94 %	1.050	-
Oslon Square PC	63 deg	Wide	91 %	0.863	-
Oslon SSL 80	54 deg	Wide	92 %	1.080	-
Oslon Square Gen3	67 deg	Wide	92 %	0.790	-
PrevaLED Brick DC 2x8	67 deg	Wide	92 %	0.790	-
LH351A(3535)	68 deg	Wide	92 %	0.800	-
LH351Z	63 deg	Wide	89 %	0.860	-
LH351B	65 deg	Wide	89 %	0.780	-
Z8Y19	56 deg	Wide	85 %	0.880	-
Z8Y15	56 deg	Wide	85 %	0.870	-
Z8Y22P	65 deg	Wide	94 %	0.850	-
Z8Y22	55 deg	Wide	94 %	0.950	-
TL1L4	60 deg	Wide	84 %	0.870	-
RLE G1 49x223mm 4000lm xxx EXC OTB	67 deg	Wide	94 %	0.850	-
RLE G1 49x245mm 4000lm xxx EXC OTB	67 deg	Wide	94 %	0.850	-
RLE G1 49x121mm 2000lm xxx EXC OTB	67 deg	Wide	94 %	0.850	-
RLE G1 49x133mm 2000lm xxx EXC OTB	67 deg	Wide	94 %	0.850	-

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Salorankatu 10
24240 SALO, Finland

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FAX: +358-2-733 8001

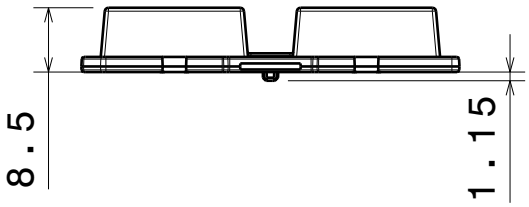
PRODUCT DATASHEET
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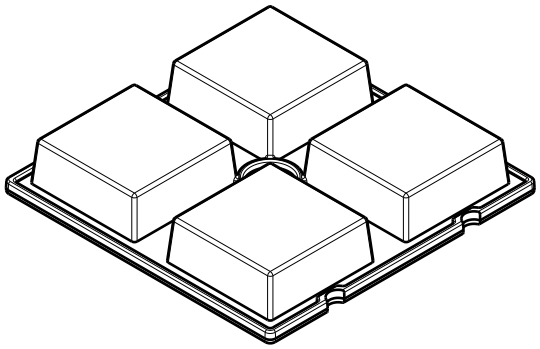
OPTICAL PROPERTIES

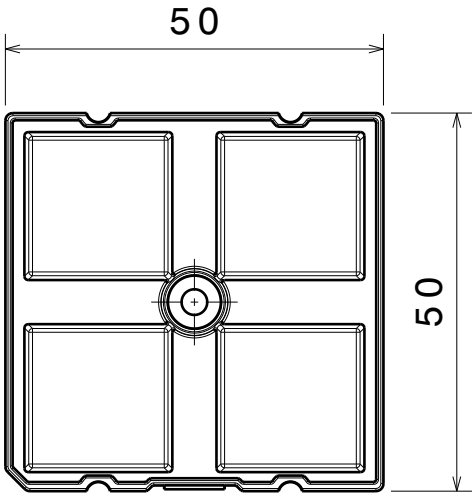
LED	Viewing Angle	Light Beam	Effi-ciency	cd/lm	Connector

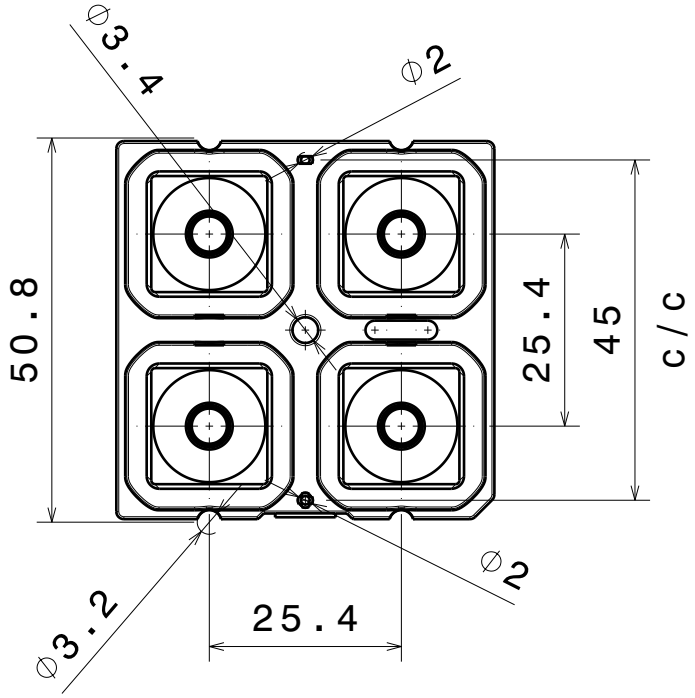
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INDEX	PART NO	DESCRIPTION	MATERIAL	COLOUR
1	C13232	HB-2x2-WW	PMMA	

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

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Finland

THIRD ANGLE PROJECTION:

DRAWING TITLE

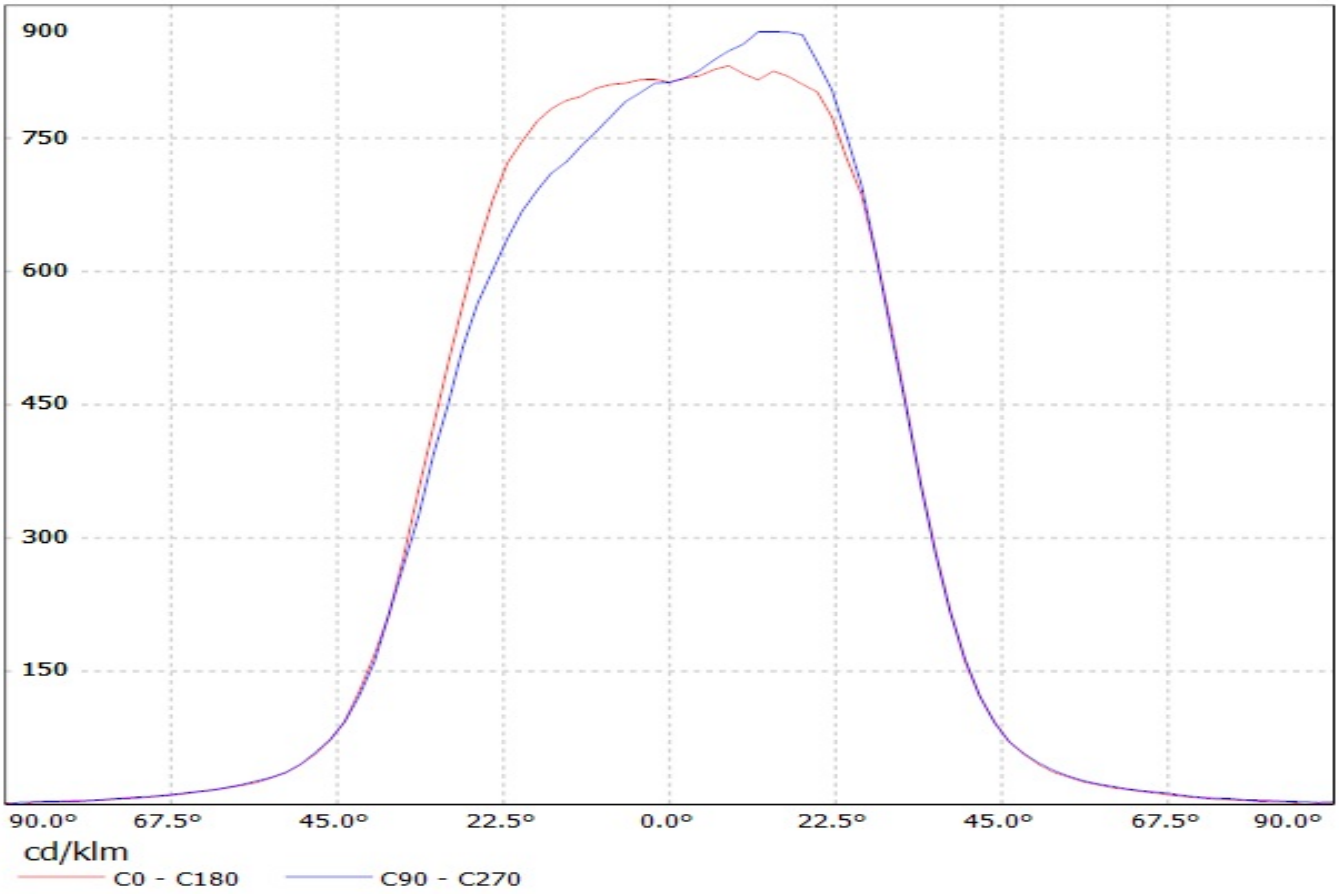
C13232_HB-2x2-WW

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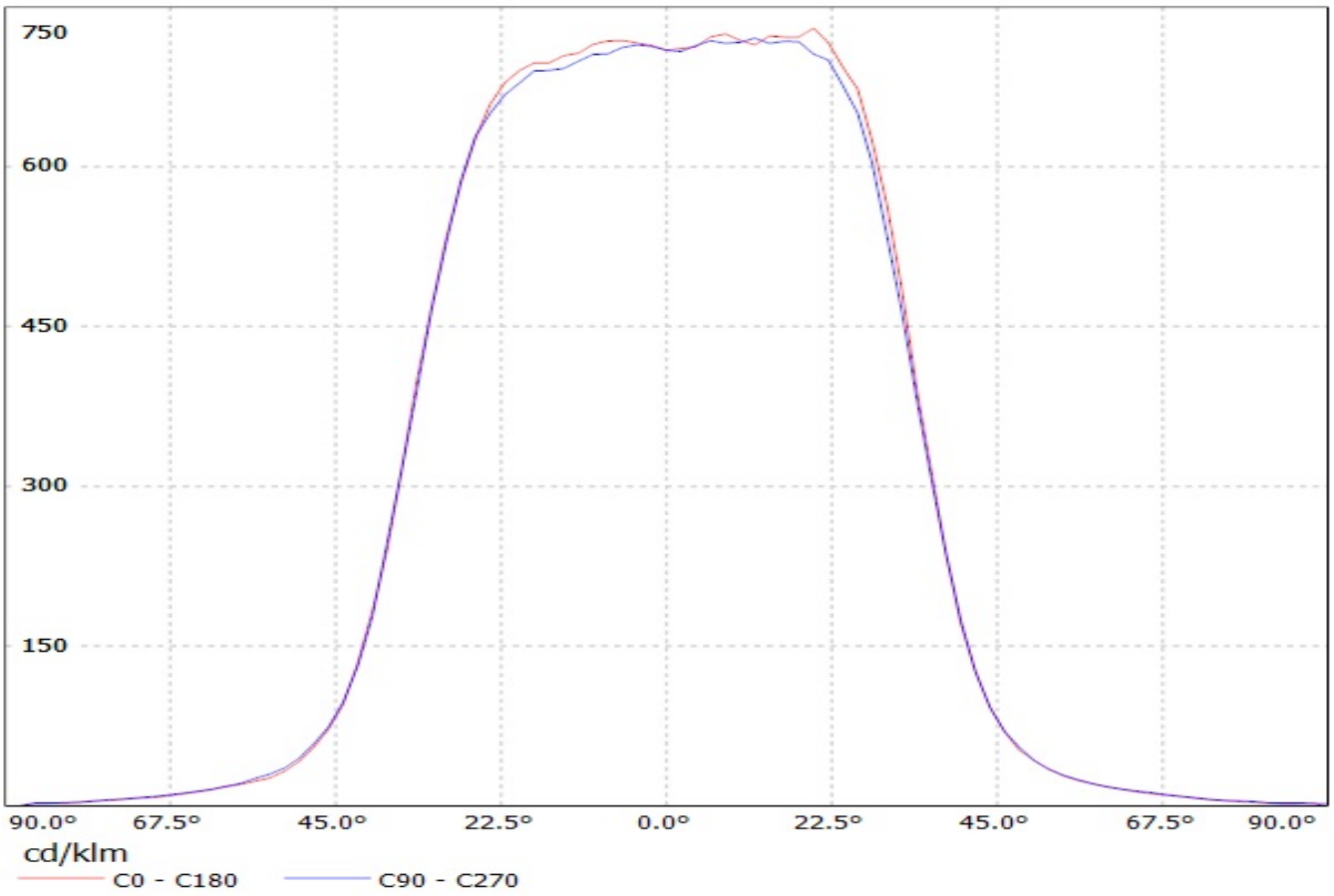
SIZE	PART NUMBER
A4	C13232

SCALE	WEIGHT		SHEET
1:1	10,8 g		1/1

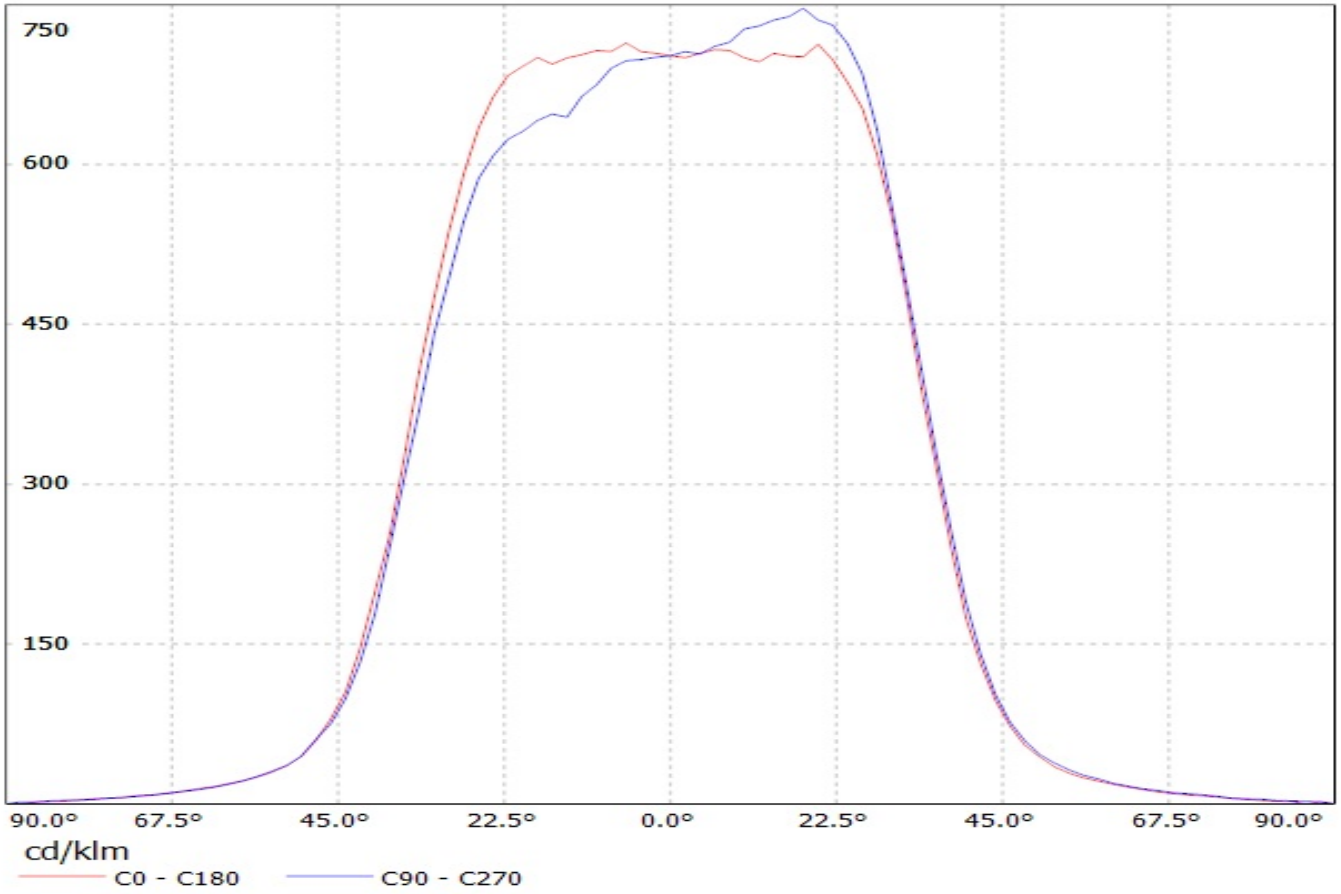
Luminaire: Ledil Oy C13237&C13232_HB-2X2-WW (Cree XT-E 390lm @ 250mA) Efficiency=91%
Lamps: 1 x Cree XT-E 390lm @ 250mA



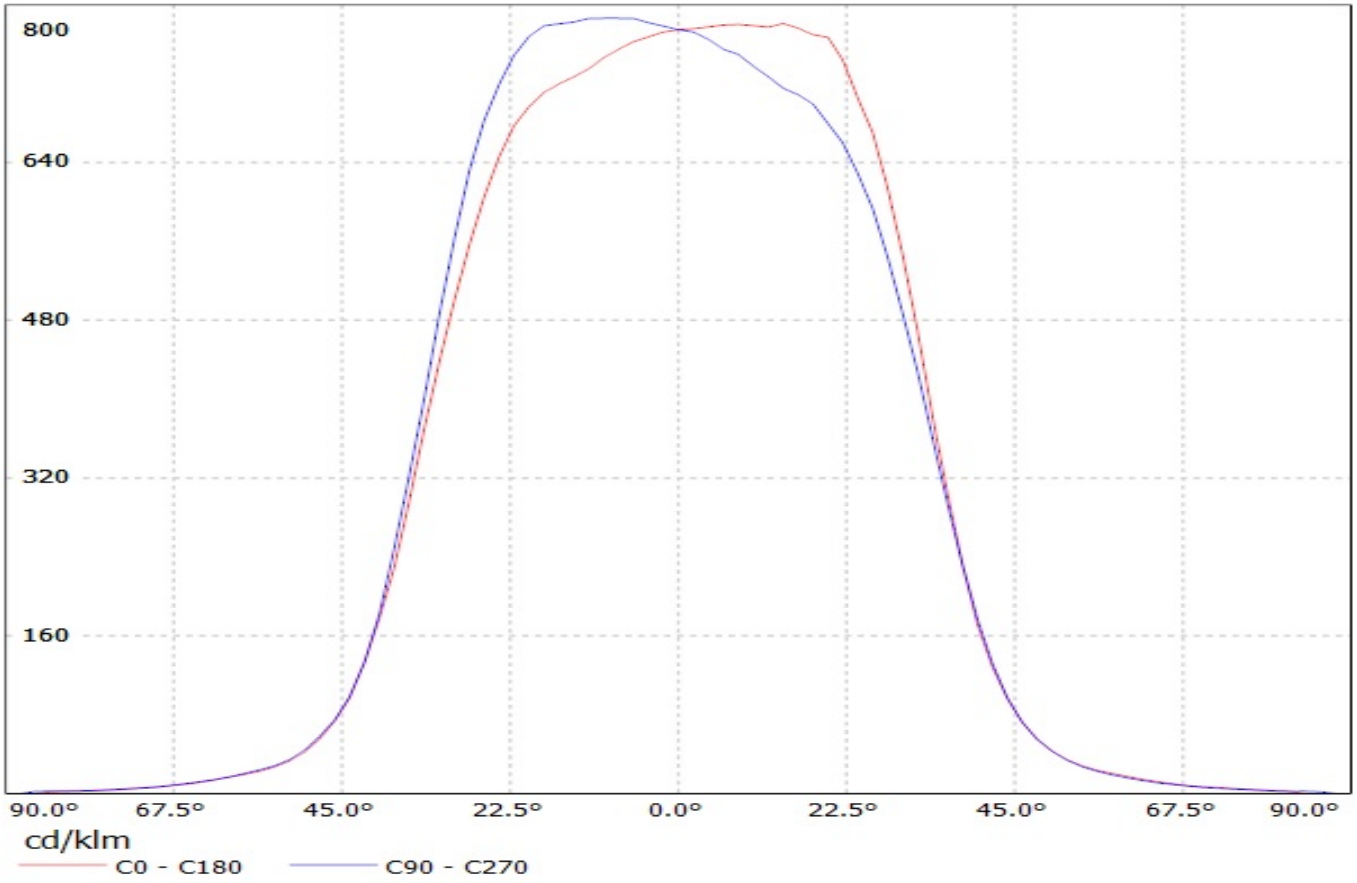
Luminaire: Ledil Oy C13237&C13232_HB-2X2-WW (Cree XP-G2 420lm @ 250mA) Efficiency=91%
Lamps: 1 x Cree XP-G2 420lm @ 250mA



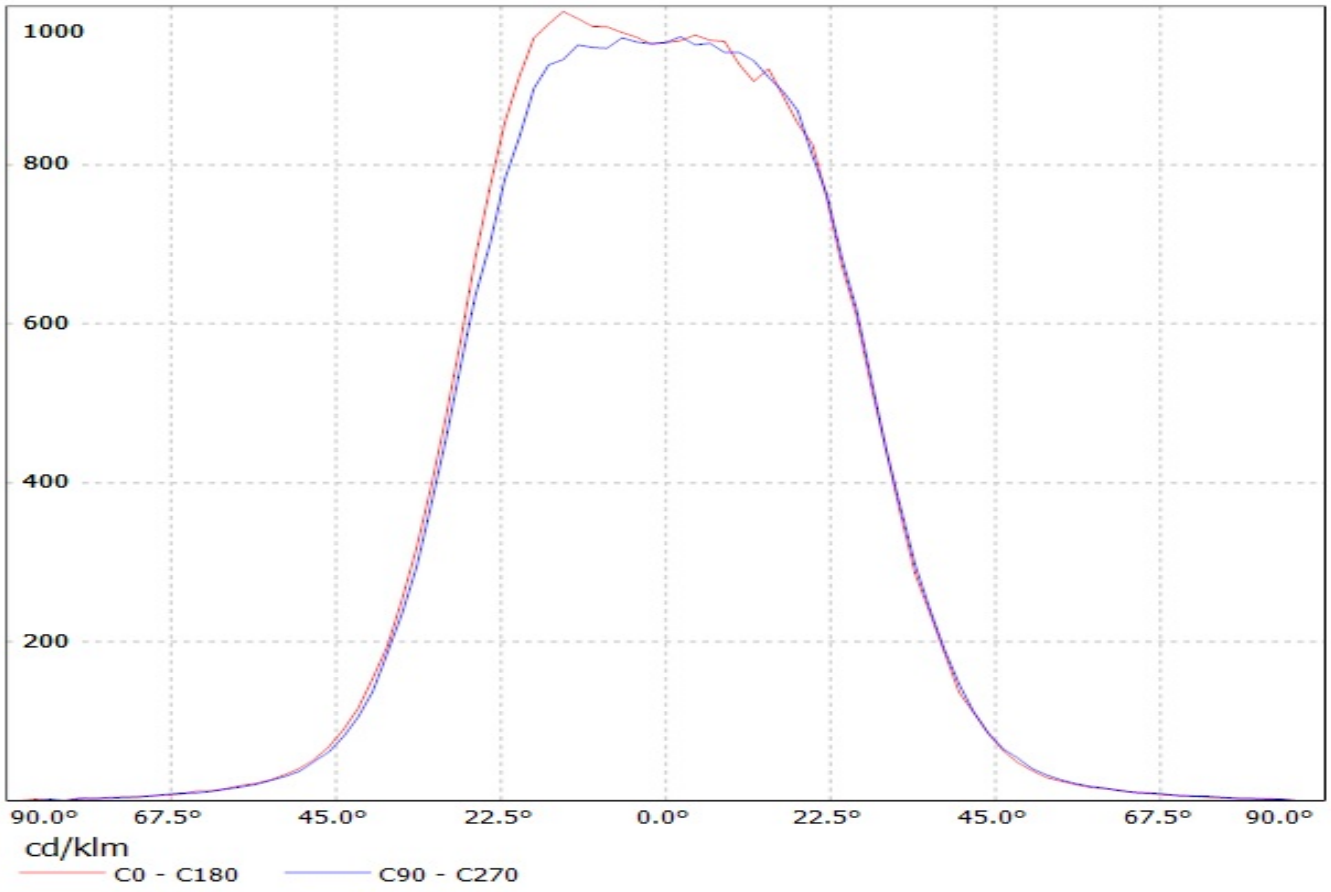
Luminaire: Ledil Oy C13237&C13232_HB-2X2-WW (Cree XP-G 257lm @ 250mA) Efficiency=91%
Lamps: 1 x Cree XP-G 257lm @ 250mA



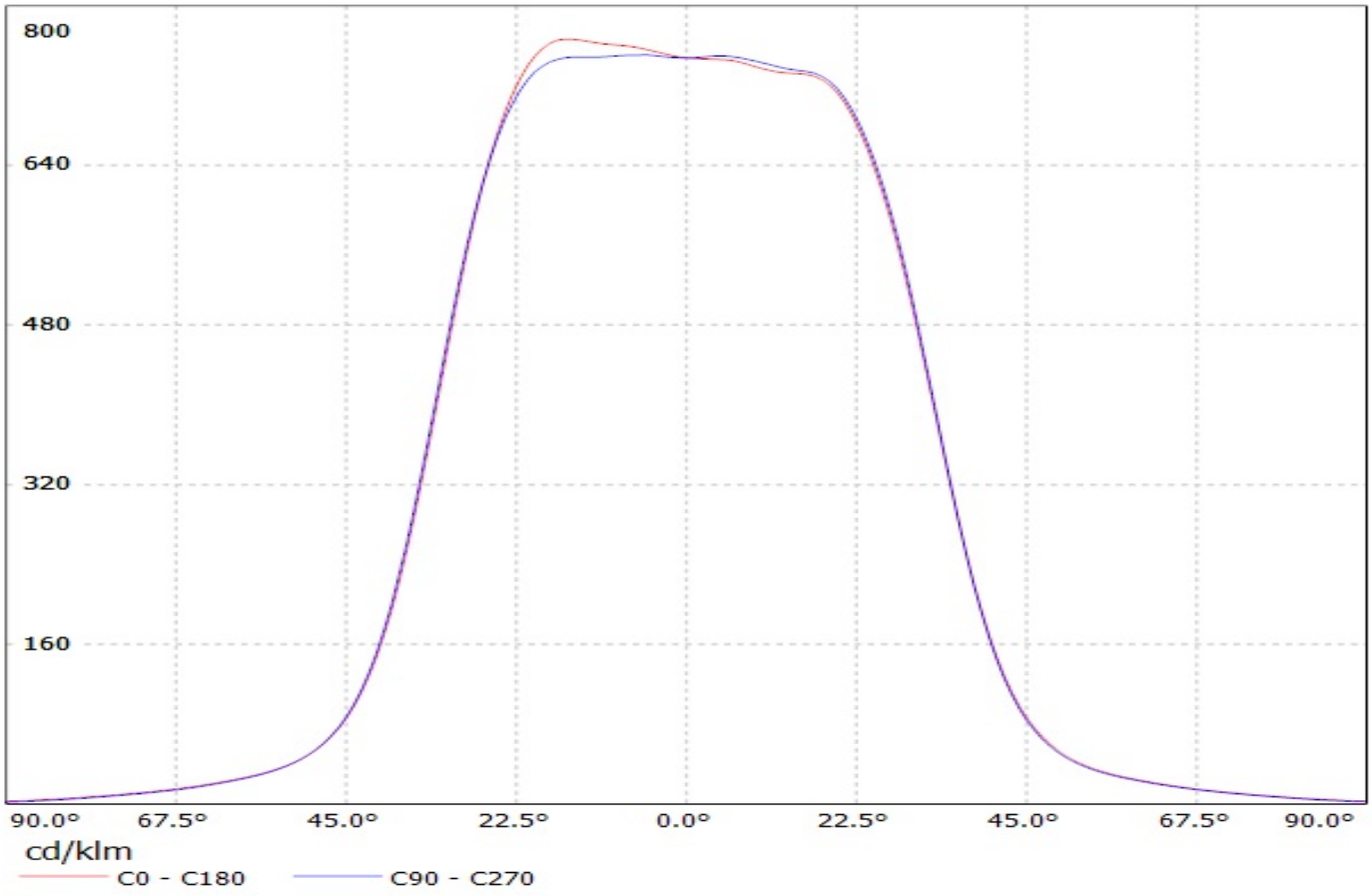
Luminaire: Ledil Oy C13232_HB-2x2-WW_(3535_Ceramic_gen2) Efficiency=89%
Lamps: 1 x LG 3535 Ceramic gen2 (PKG5700K) 461lm @ 250mA CCT=6600K P=2.9W I=250mA



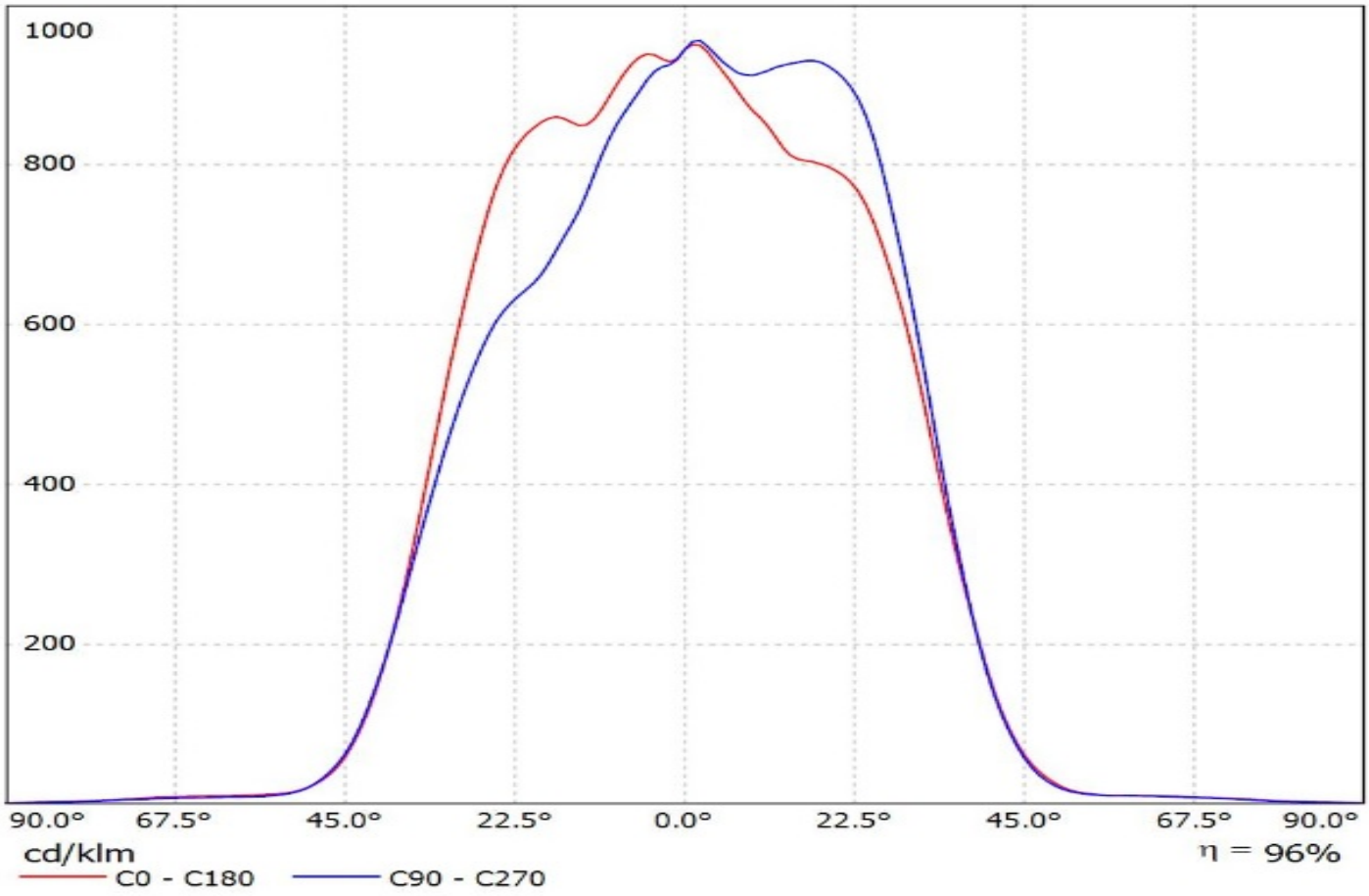
Luminaire: Ledil Oy C13232_HB-2X2-WW_(Luxeon_Z_ES) Efficiency=90%
Lamps: 1 x Luxeon Z ES (LXZ2-3090) 209lm @ 250mA CCT=3000k P=2.8W I=250mA



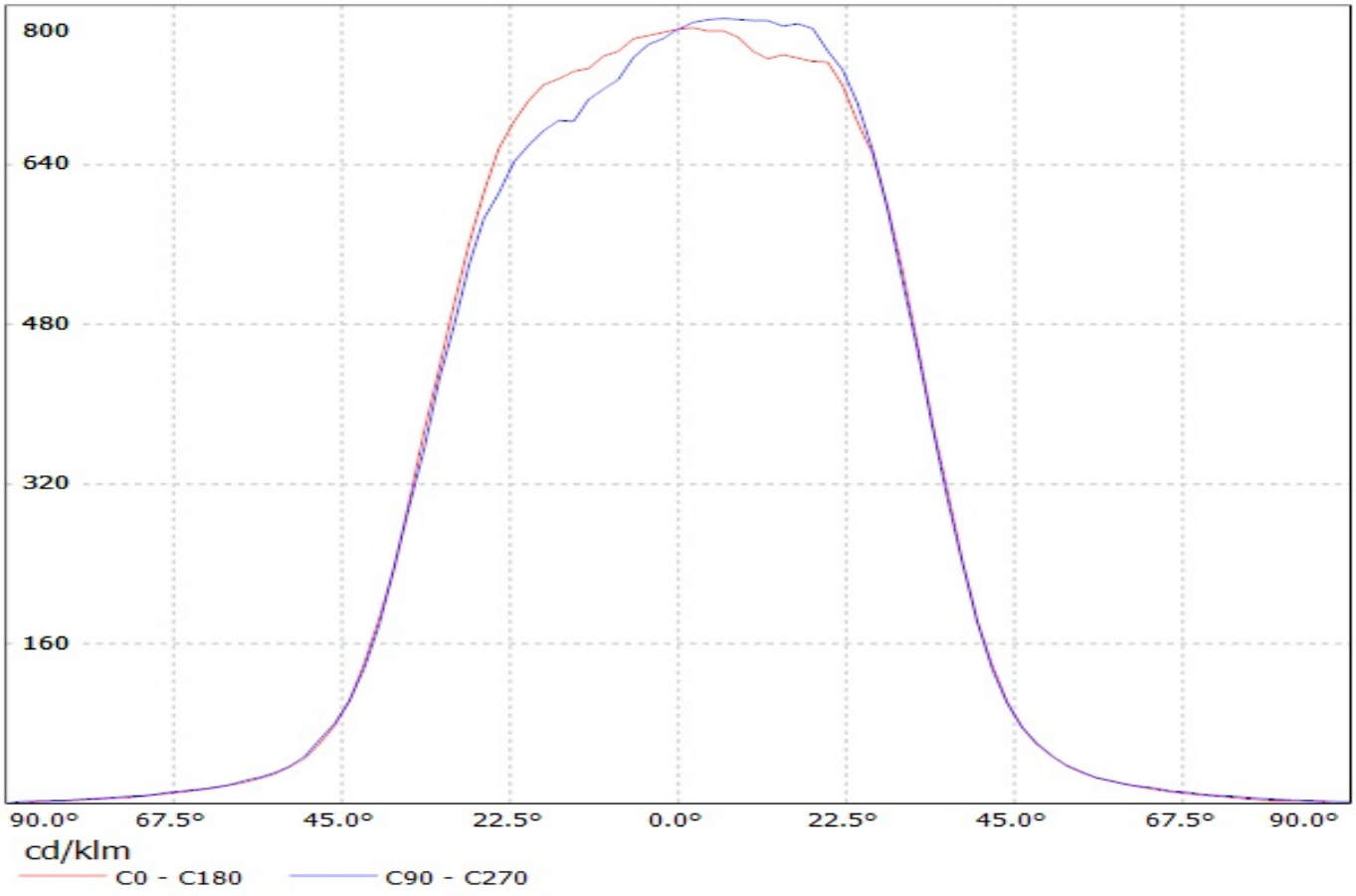
Luminaire: LEDiL Oy C13232_HB-2X2-WW_(LUXEON_Q) Eff.90.8%
Lamps: 1 x LUXEON_Q_2x2_(LHQ-3080)_298.363lm@250mA_P=2.87385W_I=249.9mA



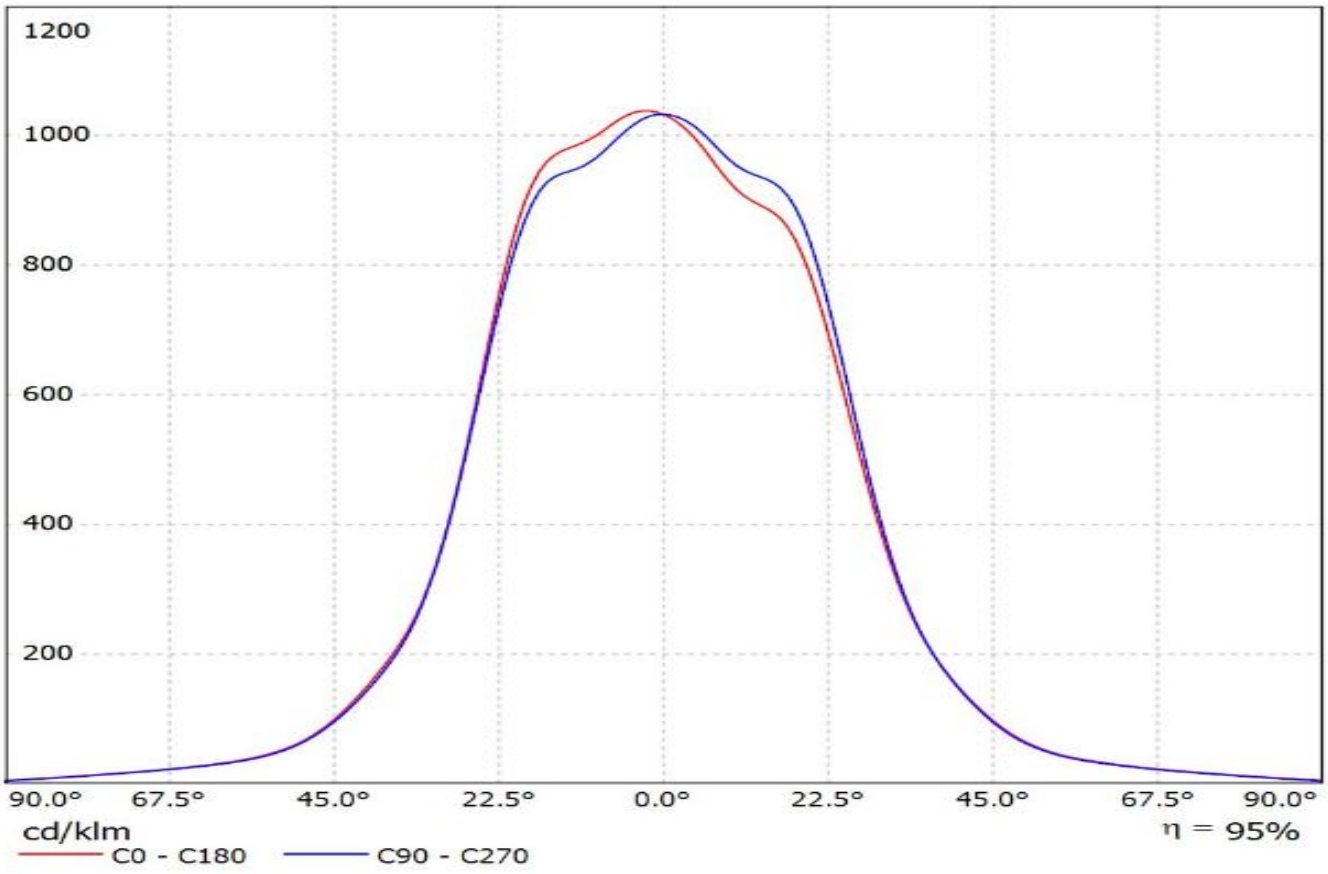
Luminaire: Ledil Oy C13232_HB-2X2-WW_(Luxeon_3030_2D)_SIMULATED
Lamps: 1 x Lumileds Luxeon 3030 2D



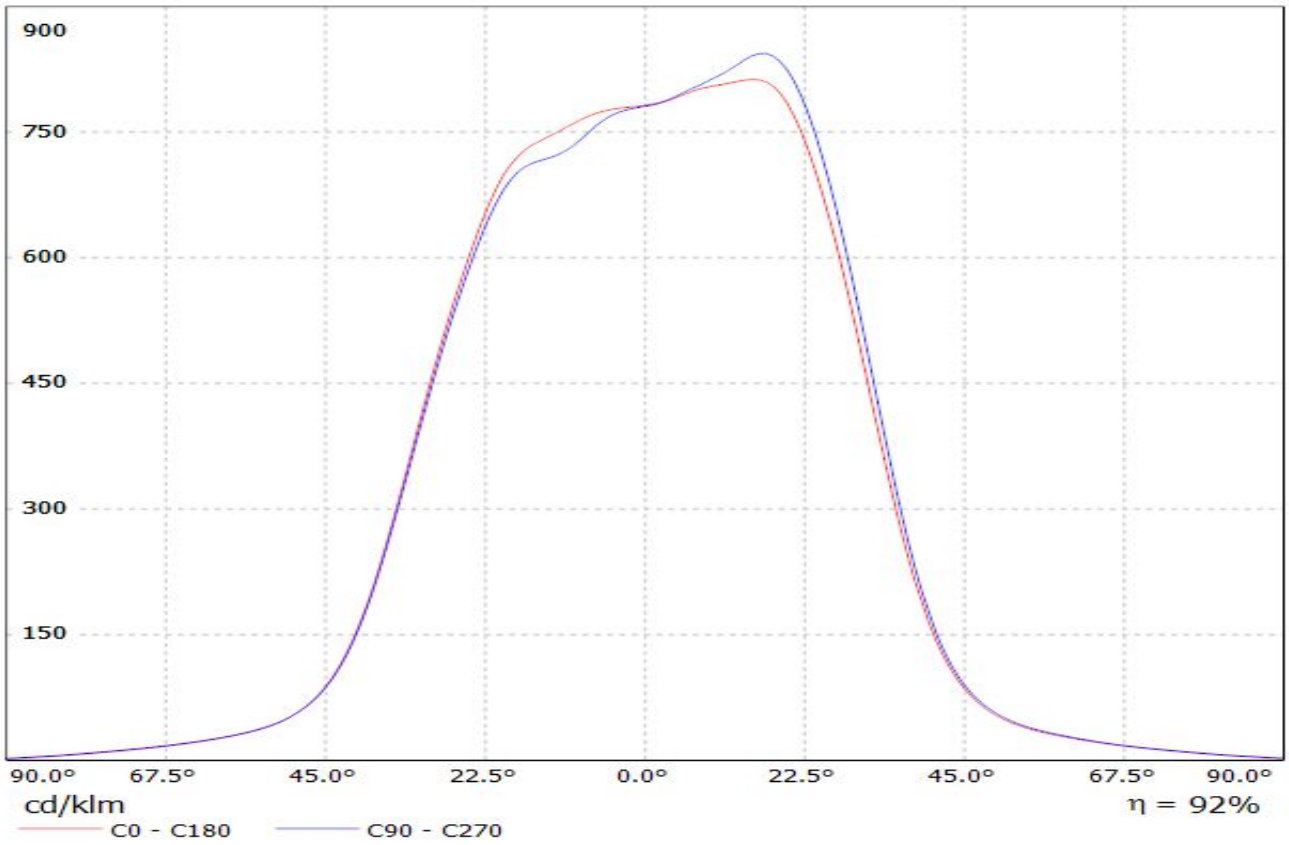
Luminaire: Ledil Oy C13237&C13232_HB-2X2-WW (Nichia NVS19B 306lm @ 250mA) Efficiency=91%
Lamps: 1 x Nichia NVS19B 306lm @ 250mA



Luminaire: LEDiL Oy C13232_HB-2X2-WW_(E21A_2X2)
Lamps: 1 x Nichia_E21A_2X2_451.614lm@250mA_P=2.8045W_I=0.250A

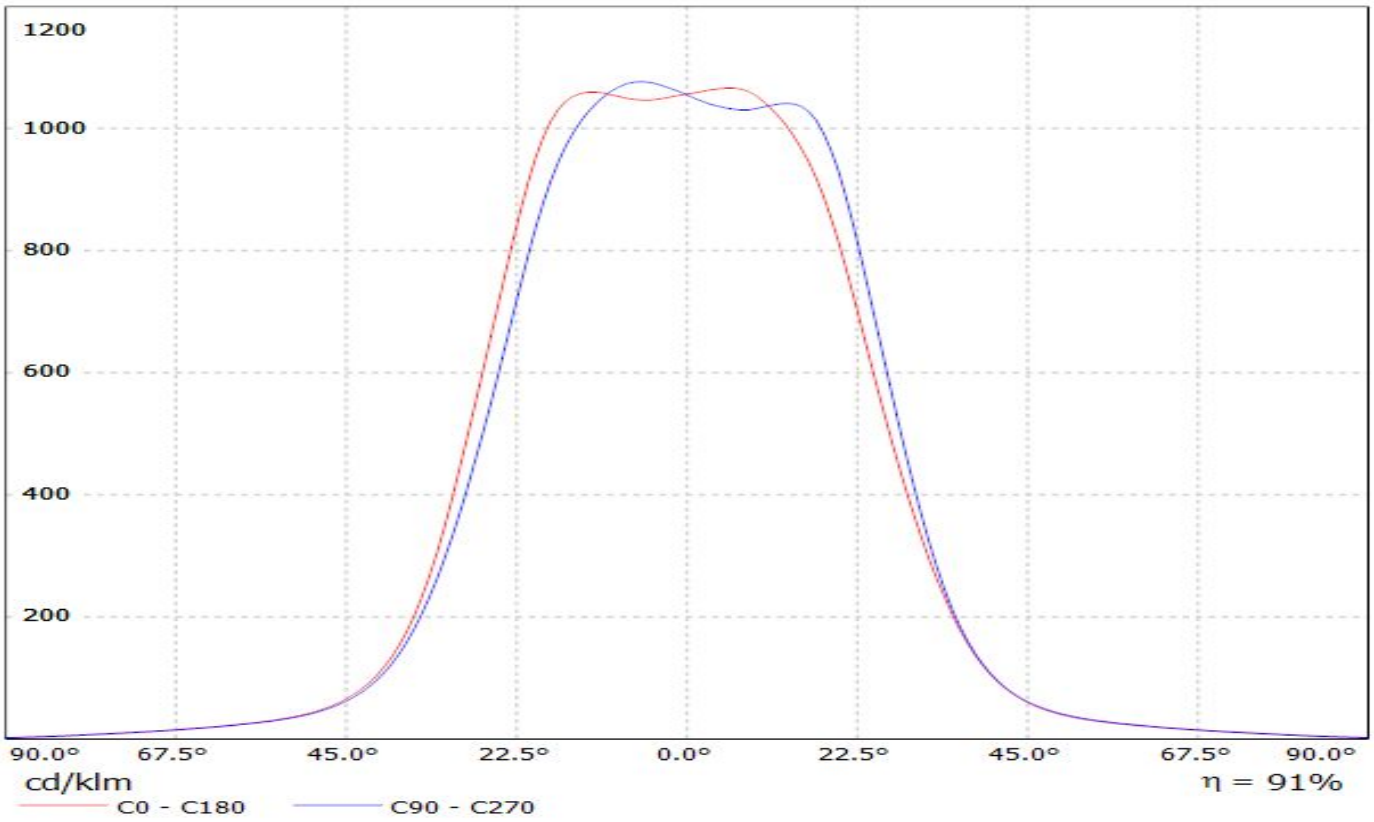


Luminaire: LEDiL Oy C13232_HB-2x2-WW_(Osram_Square_PC) Eff. 91,6%
Lamps: 1 x Osram Square PC (385lm@100mA)

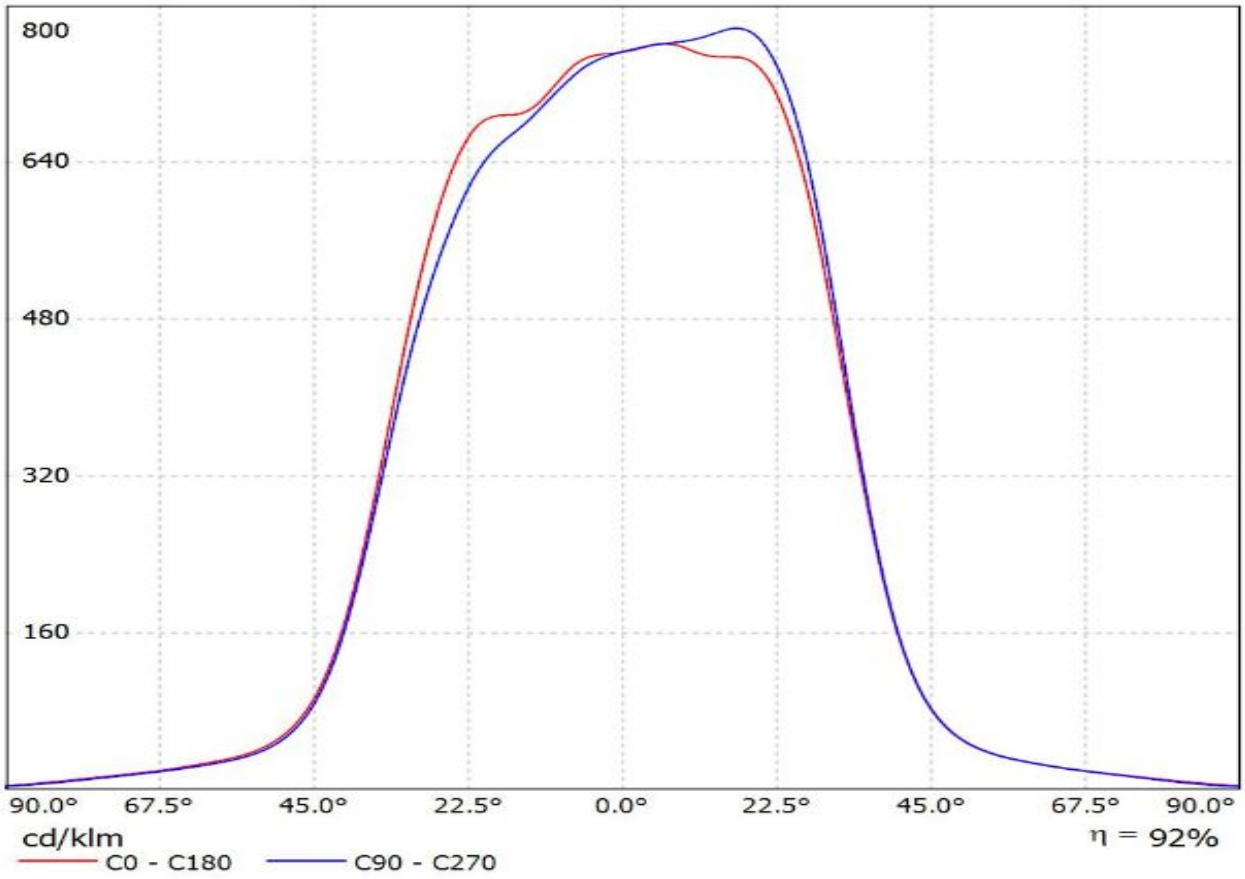


LEDiL Oy C13232_HB-2x2-WW_(SSL80) Eff.91.5% / LDC (Linear)

Luminaire: LEDiL Oy C13232_HB-2x2-WW_(SSL80) Eff.91.5%
Lamps: 1 x Osram Oslon SSL80 (308lm@250mA)

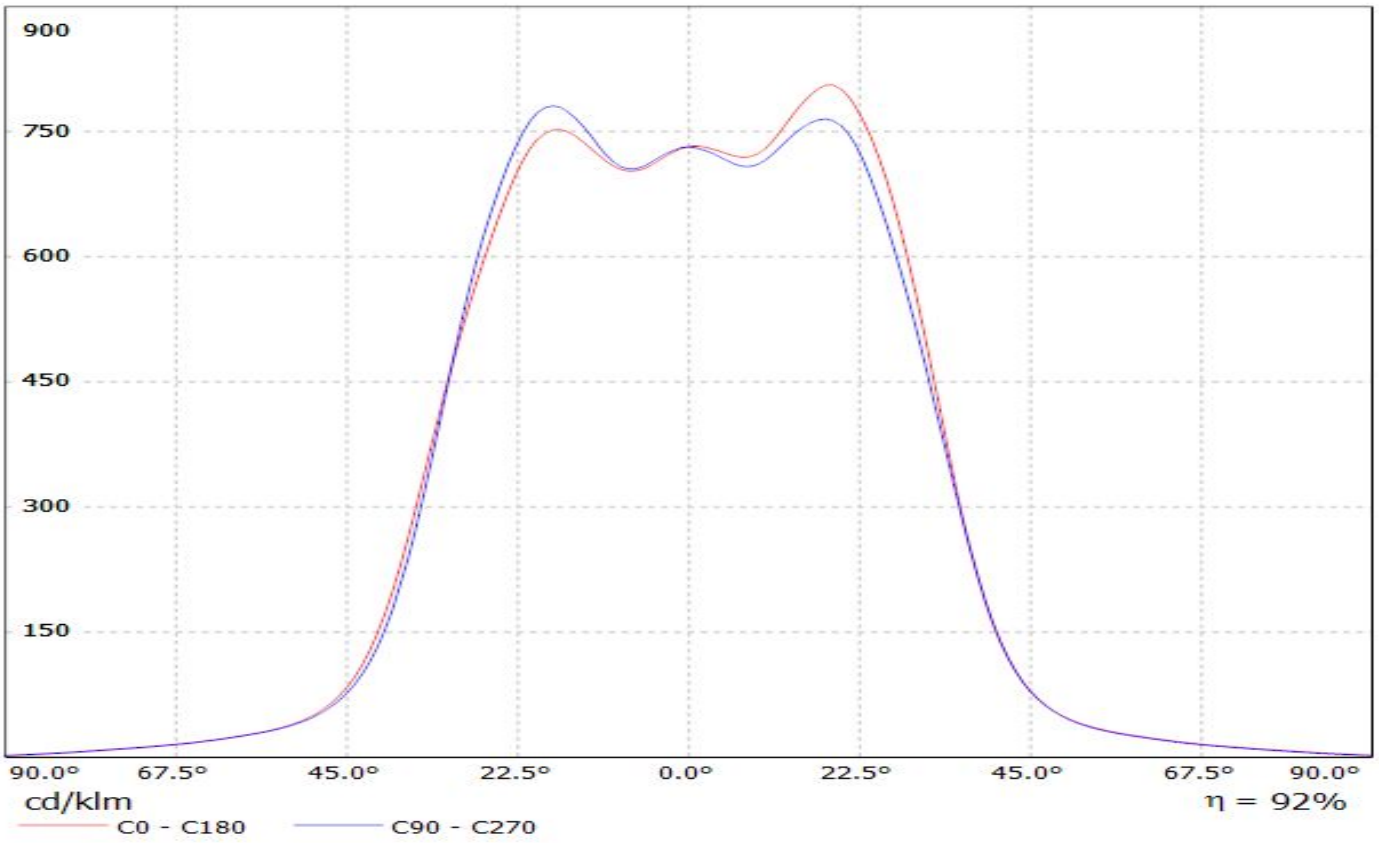


Luminaire: Ledil C13232_HB_2X2-WW(square_gen3)
Lamps: 1 x Osram_square_gen3_2x2_(GW_CSSRM2.PM)_460.271lm@250mA_CCT=5000K_P=2.80625W_I=0.25A

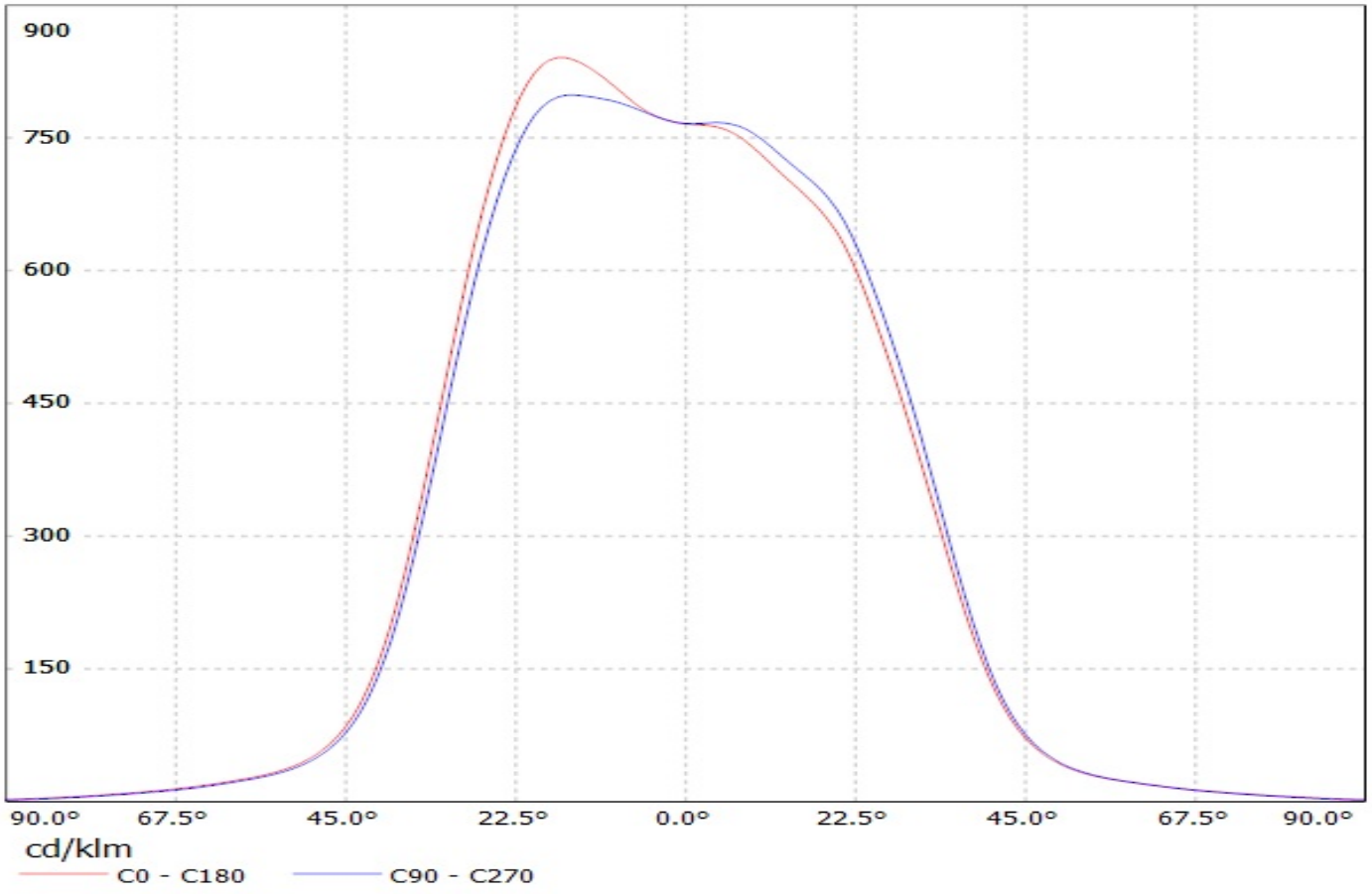


LEDiL Oy C13232_HB-2x2-WW_(Samsung_3535) Eff.92.0% / LDC (Linear)

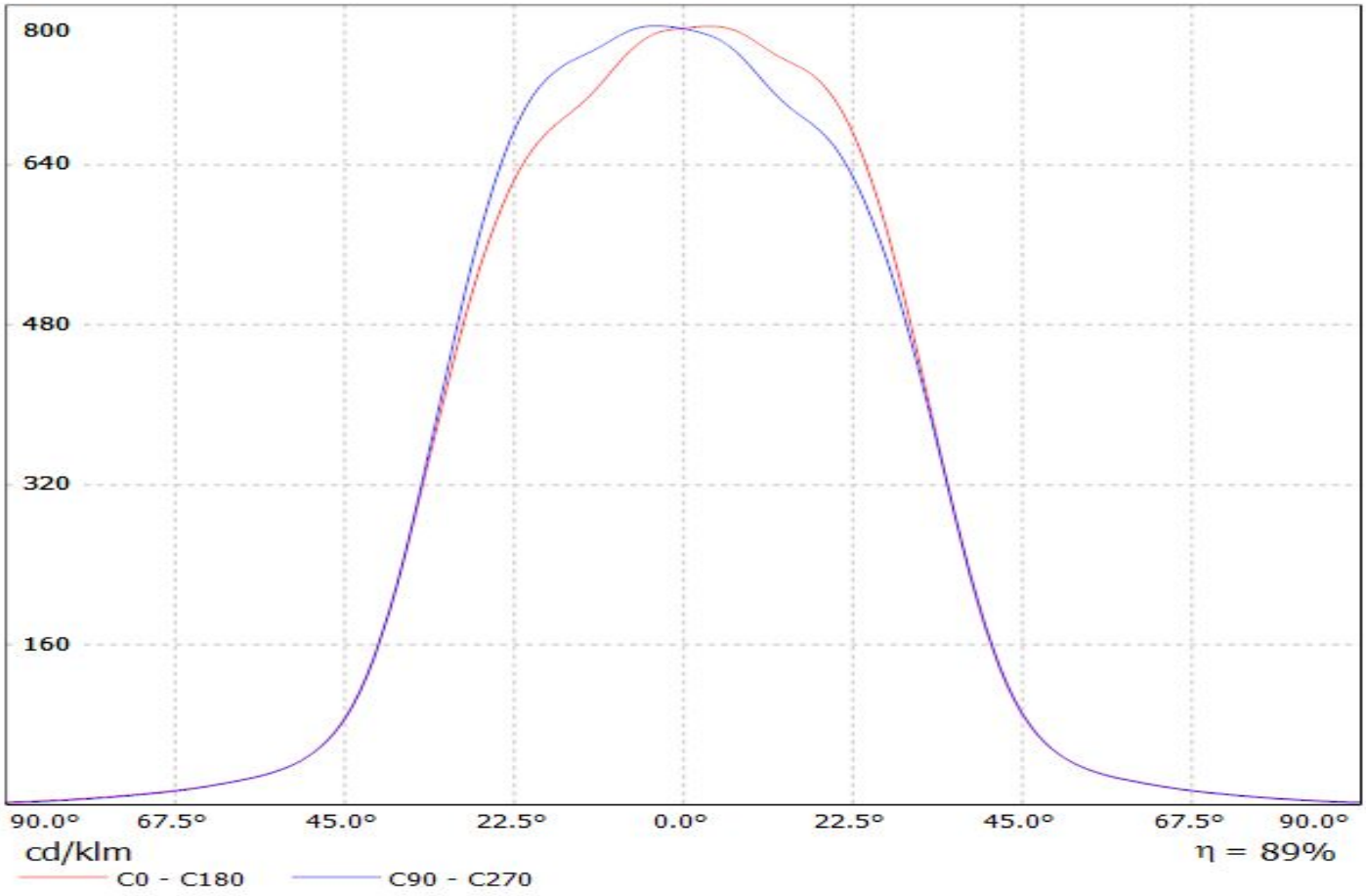
Luminaire: LEDiL Oy C13232_HB-2x2-WW_(Samsung_3535) Eff.92.0%
Lamps: 1 x Samsung_3535_(LH35A1) (333lm@250mA)



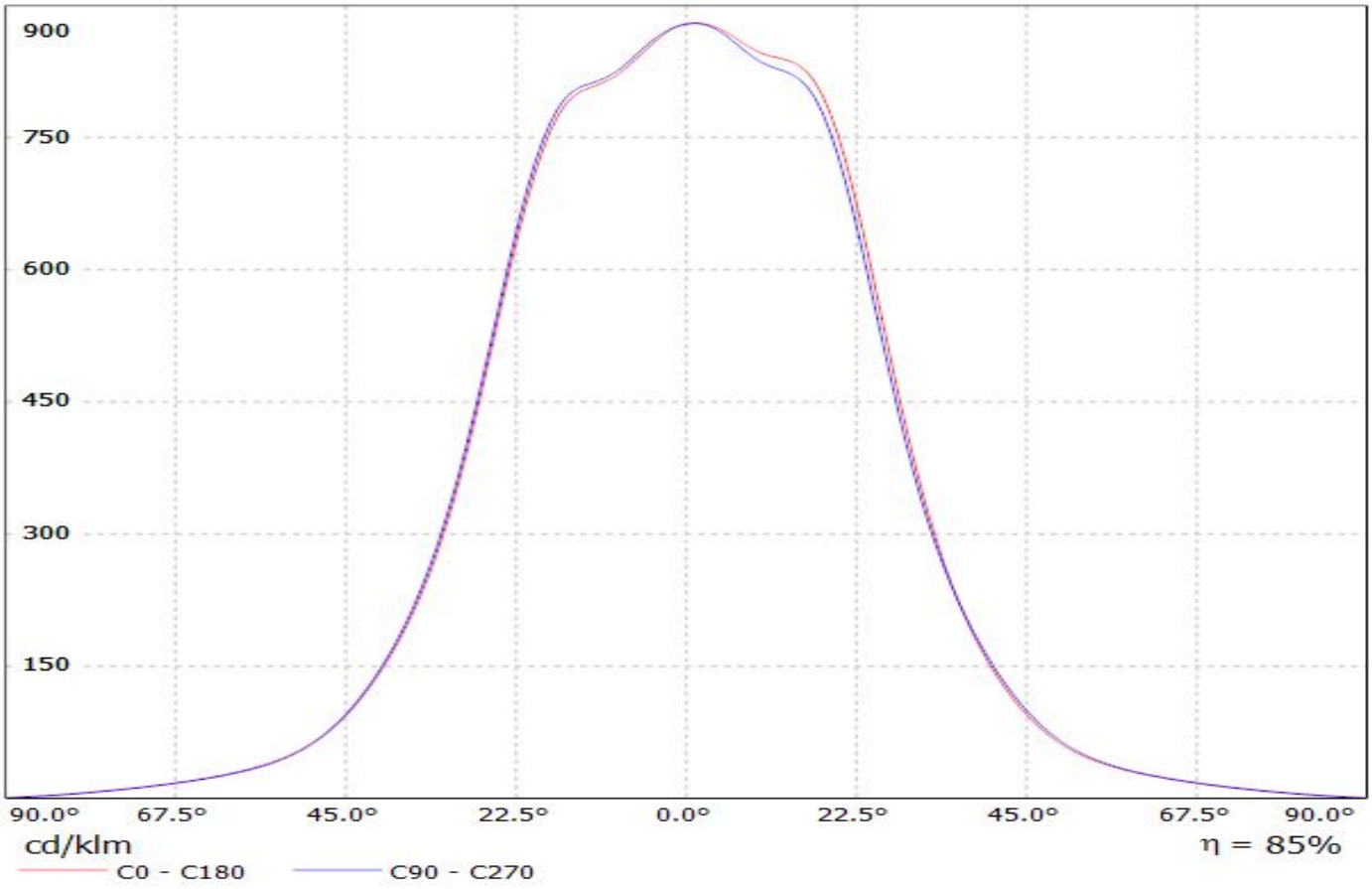
Luminaire: LEDiL Oy C13232_HB-2X2-WW_(LH351Z) Eff.89.0%
Lamps: 1 x SAMSUNG_LH351Z_2x2_359.49lm@250mA_P=2.86371W_I=249.8mA



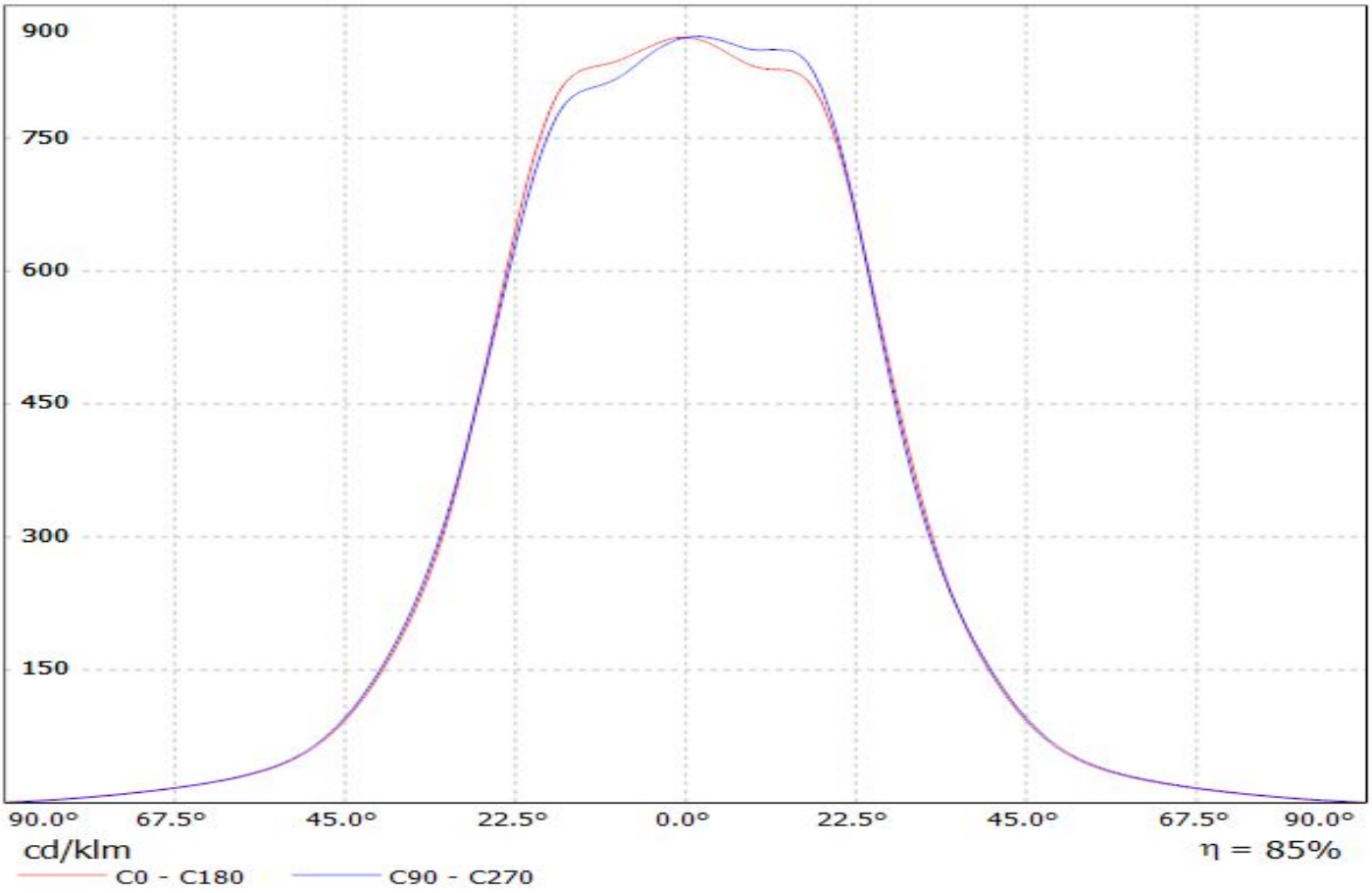
Luminaire: LEDiL Oy C13232_HB-2X2-WW_(LH351B) Eff.88.6%
Lamps: 1 x SAMSUNG_LH351B_2x2_430.715lm@250mA_P=2.84311W_I=249.9mA



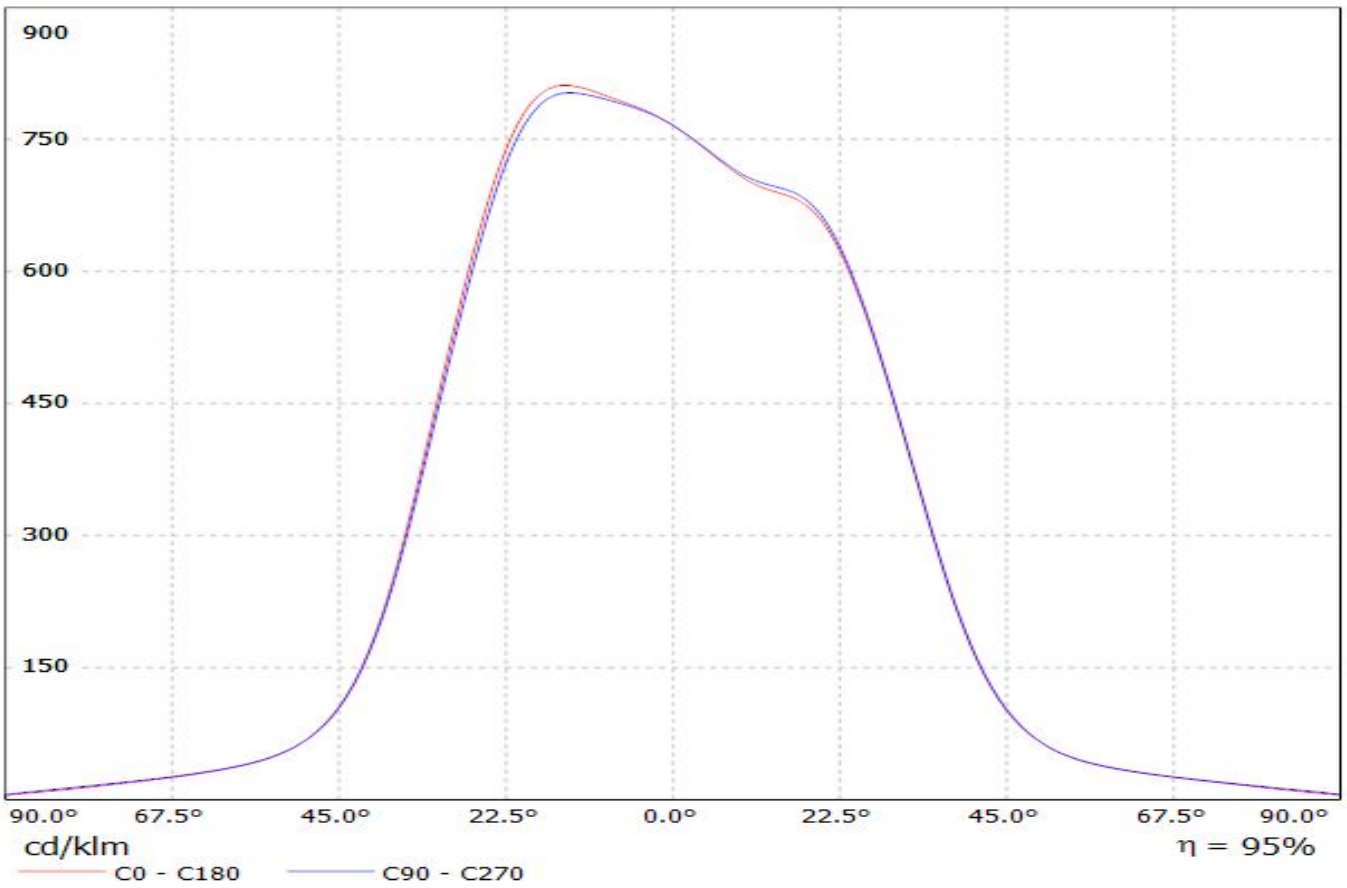
Luminaire: LEDiL Oy C13232_HB-2X2-WW_(WICOP2_Z8Y19)
Lamps: 1 x SEOUL_WICOP2_Z8Y19_450.124lm@250mA_P=2.8579W_I=0.250A



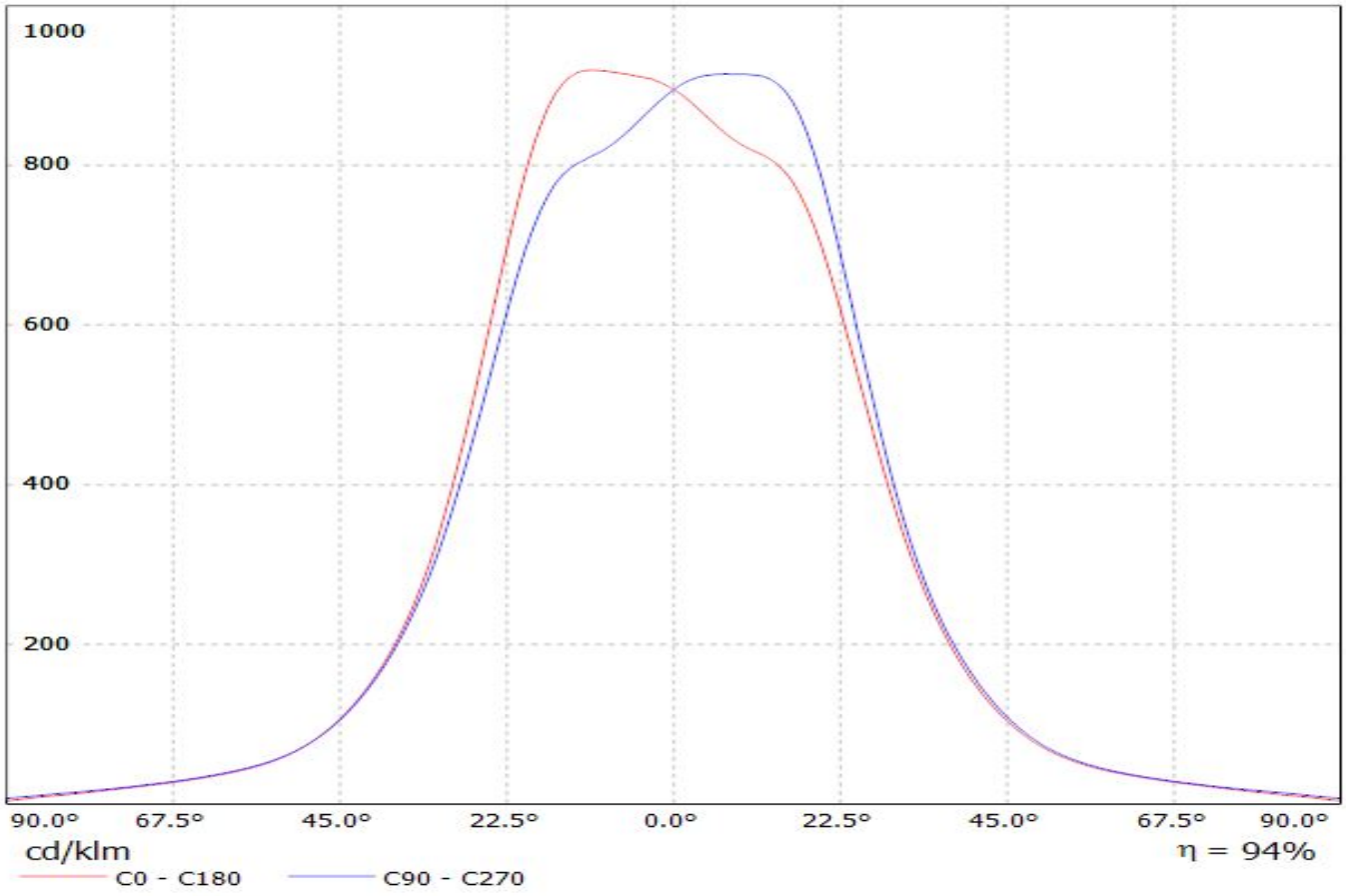
Luminaire: LEDiL Oy C13232_HB-2X2-WW_(WICOP2_Z8Y15)
Lamps: 1 x SEOUL_WICOP2_Z8Y15_336.842lm@250mA_P=2.9399W_I=0.250A



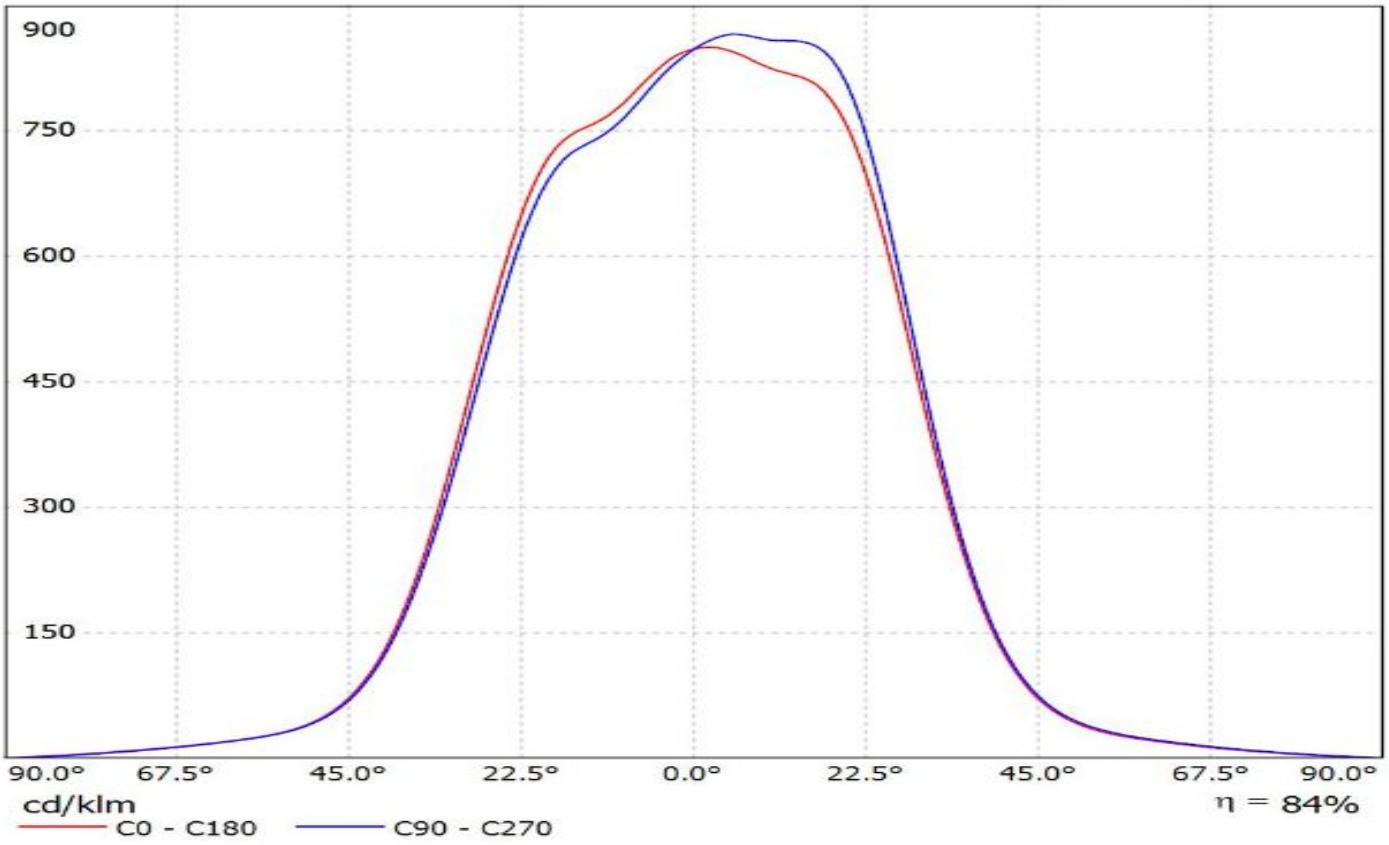
Luminaire: LEDiL Oy C13232_HB-2X2-WW_(Z8Y22+)
Lamps: 1 x Seoul_Z8Y22+_(W6E2G)_498.702lm@250mA_P=2.72132W_I=0.250A



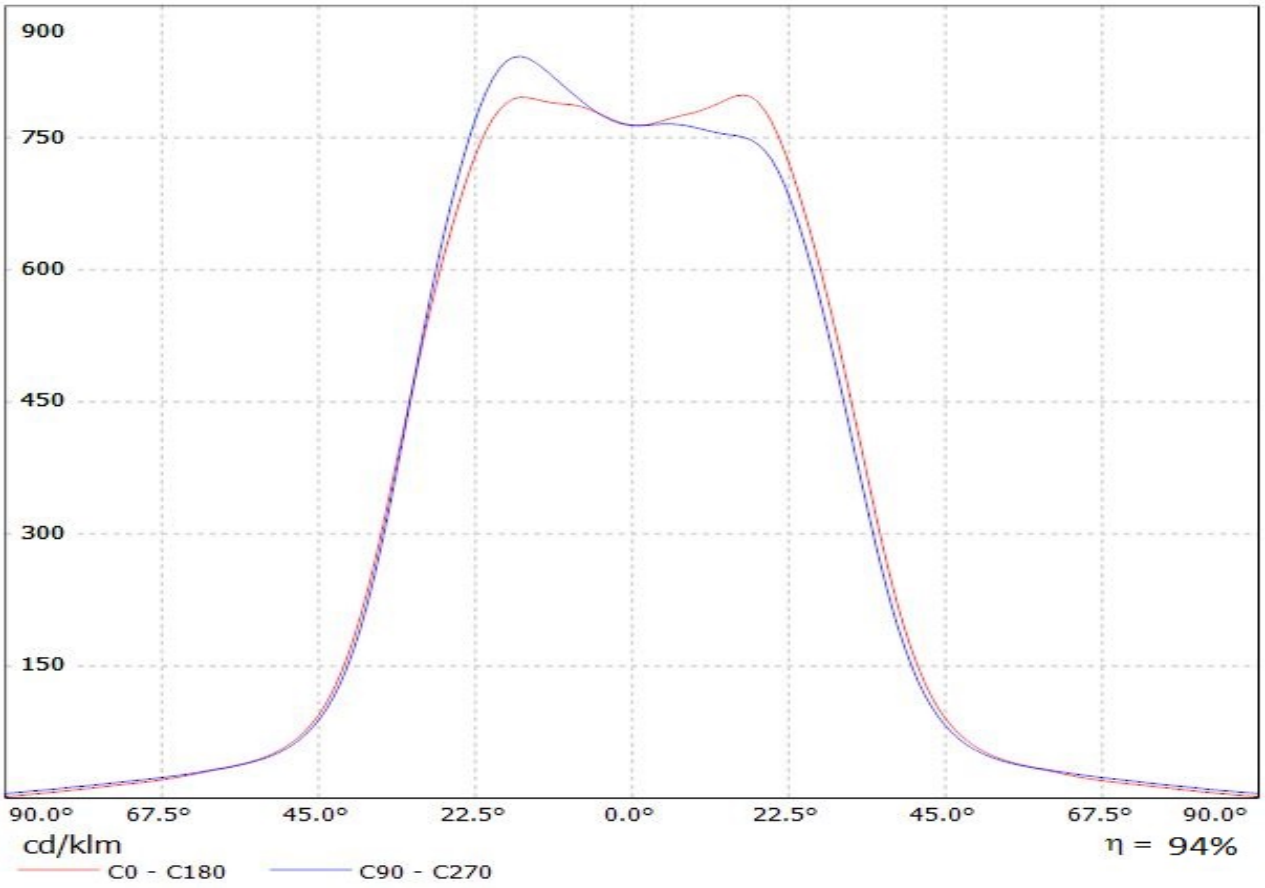
Luminaire: LEDiL Oy C13232_HB-2X2-WW_(Z8Y22)
Lamps: 1 x Seoul_Wicop_Z8Y22_497.373lm@250mA_P=2.80076W_U=11.211V



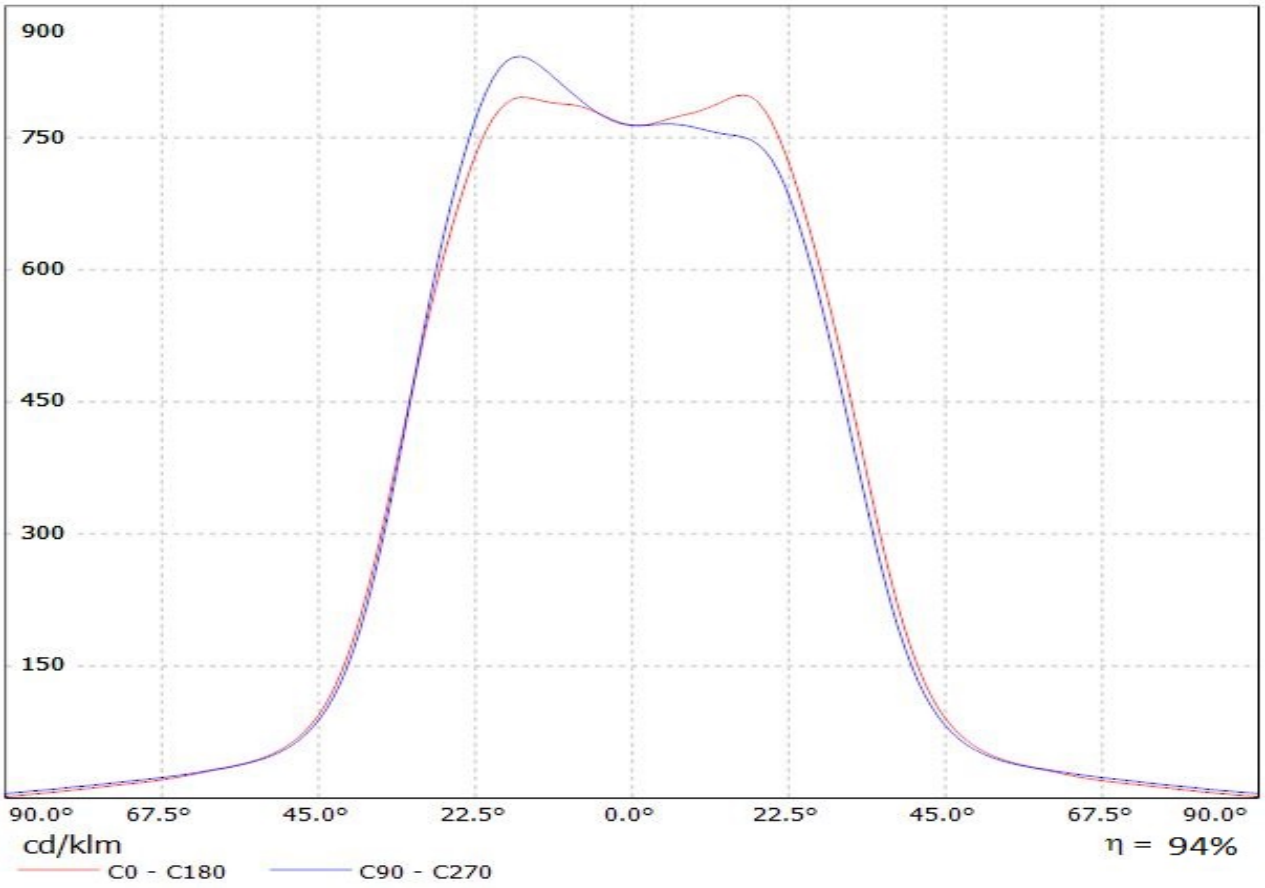
Luminaire: Ledil C13232_HB-2X2-WW_(TL1L4)
Lamps: 1 x Toshiba_TL1L4_2x2_(TL1L4-DW0)_472.639lm@250mA_CCT=6500K_P=2.9W_I=0.25A



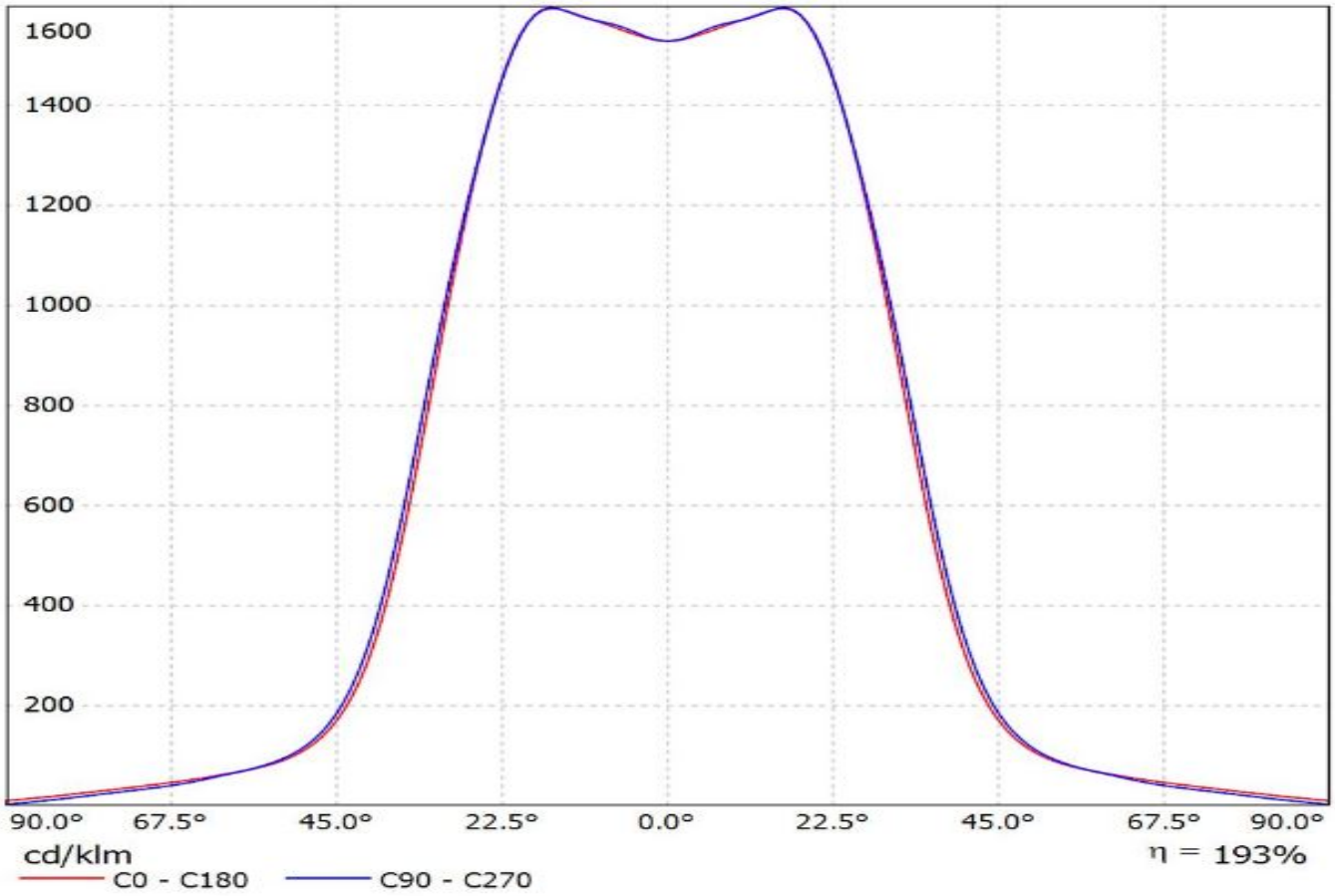
Luminaire: LEDiL Oy C13232_HB-2X2-WW_(Tridonic_Module_RLE_G1)
Lamps: 1 x Tridonic_Module_RLE_G1_4576.03lm@700mA_P=32.0681W_I=0.700A



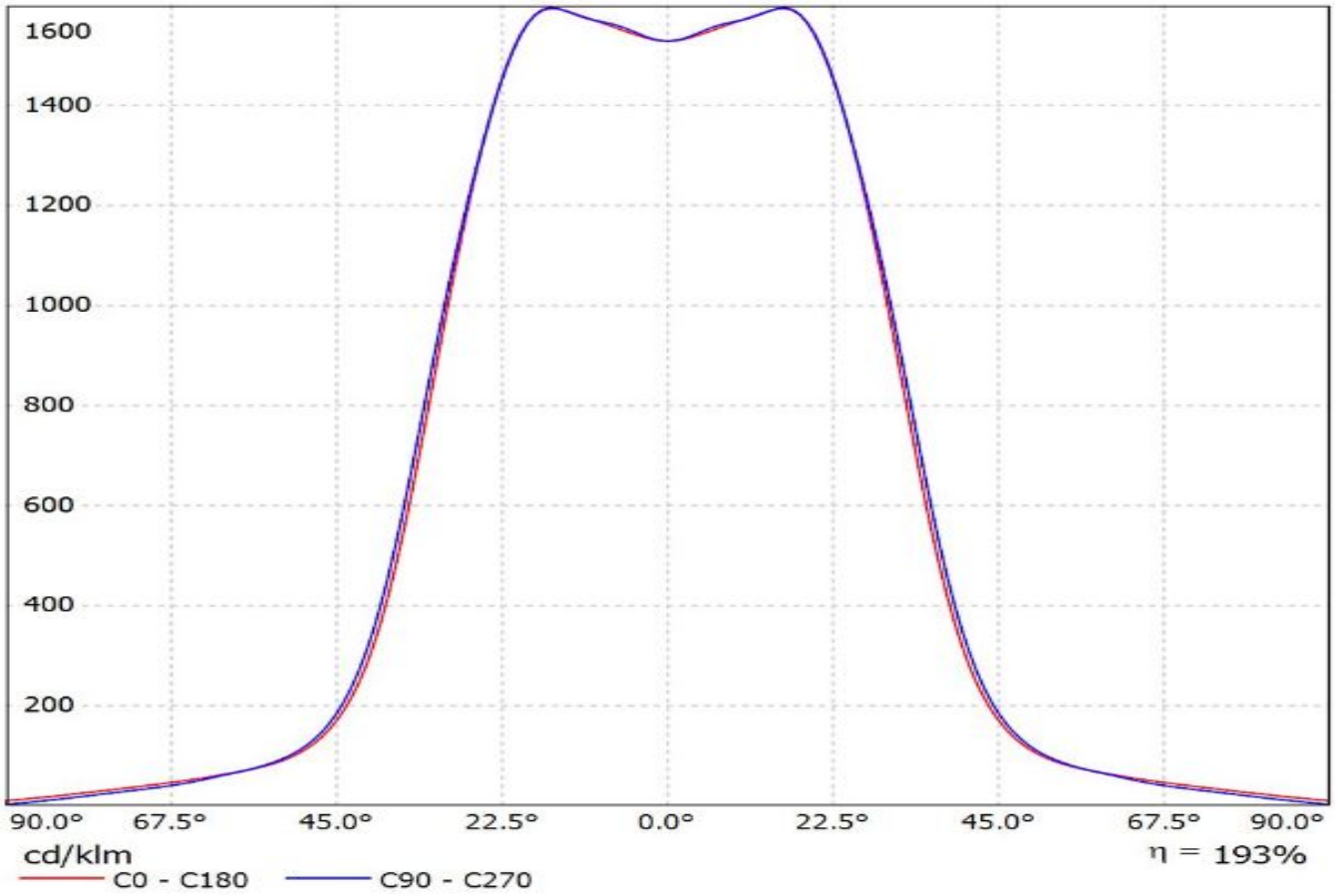
Luminaire: LEDiL Oy C13232_HB-2X2-WW_(Tridonic_Module_RLE_G1)
Lamps: 1 x Tridonic_Module_RLE_G1_4576.03lm@700mA_P=32.0681W_I=0.700A



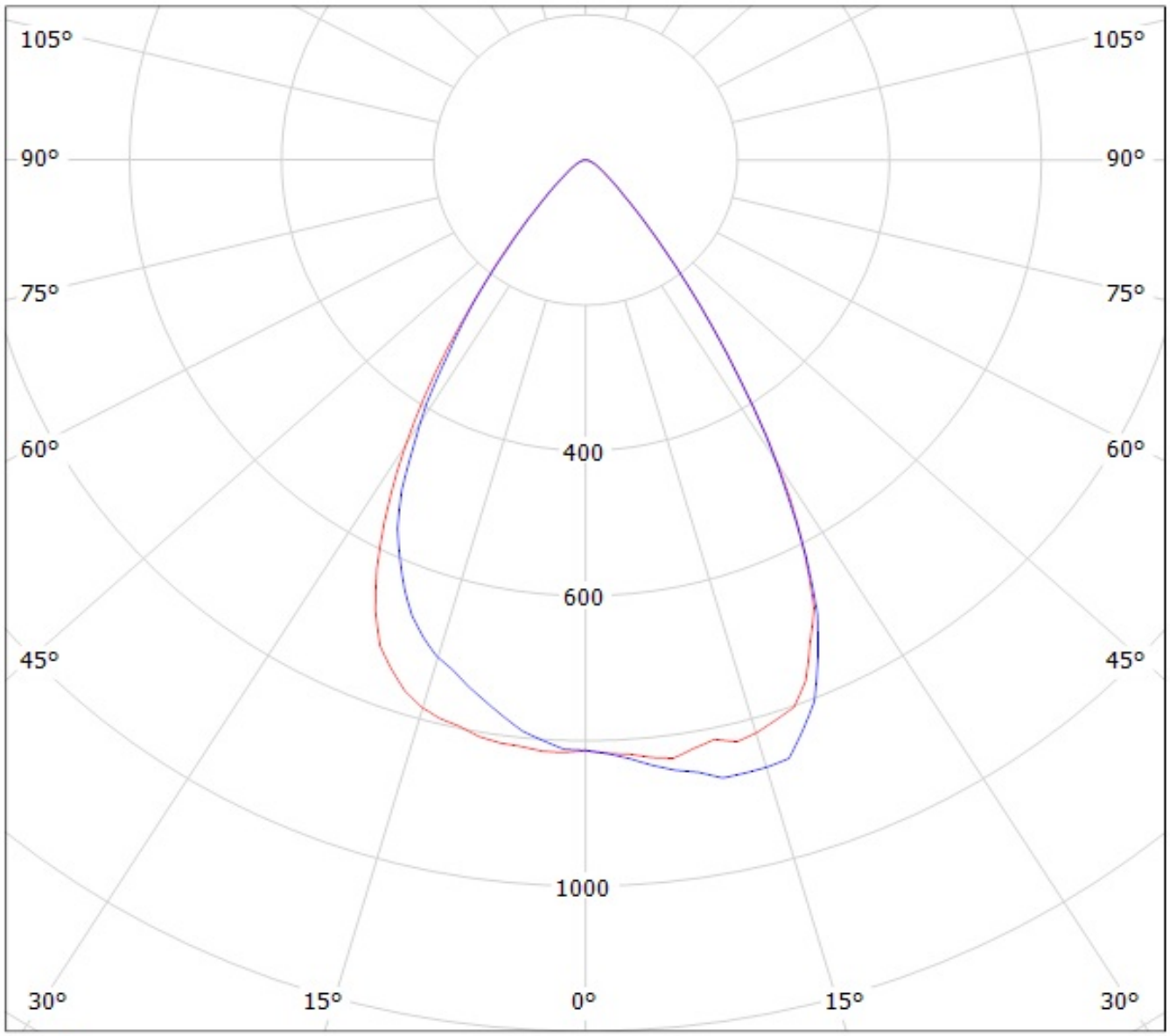
Luminaire: LEDiL Oy C13232_HB-2X2-WW_(Tridonic_Module_RLE_G1)
Lamps: 2 x Tridonic_Module_RLE_G1_2288lm@700mA_P=16W_I=0.700A



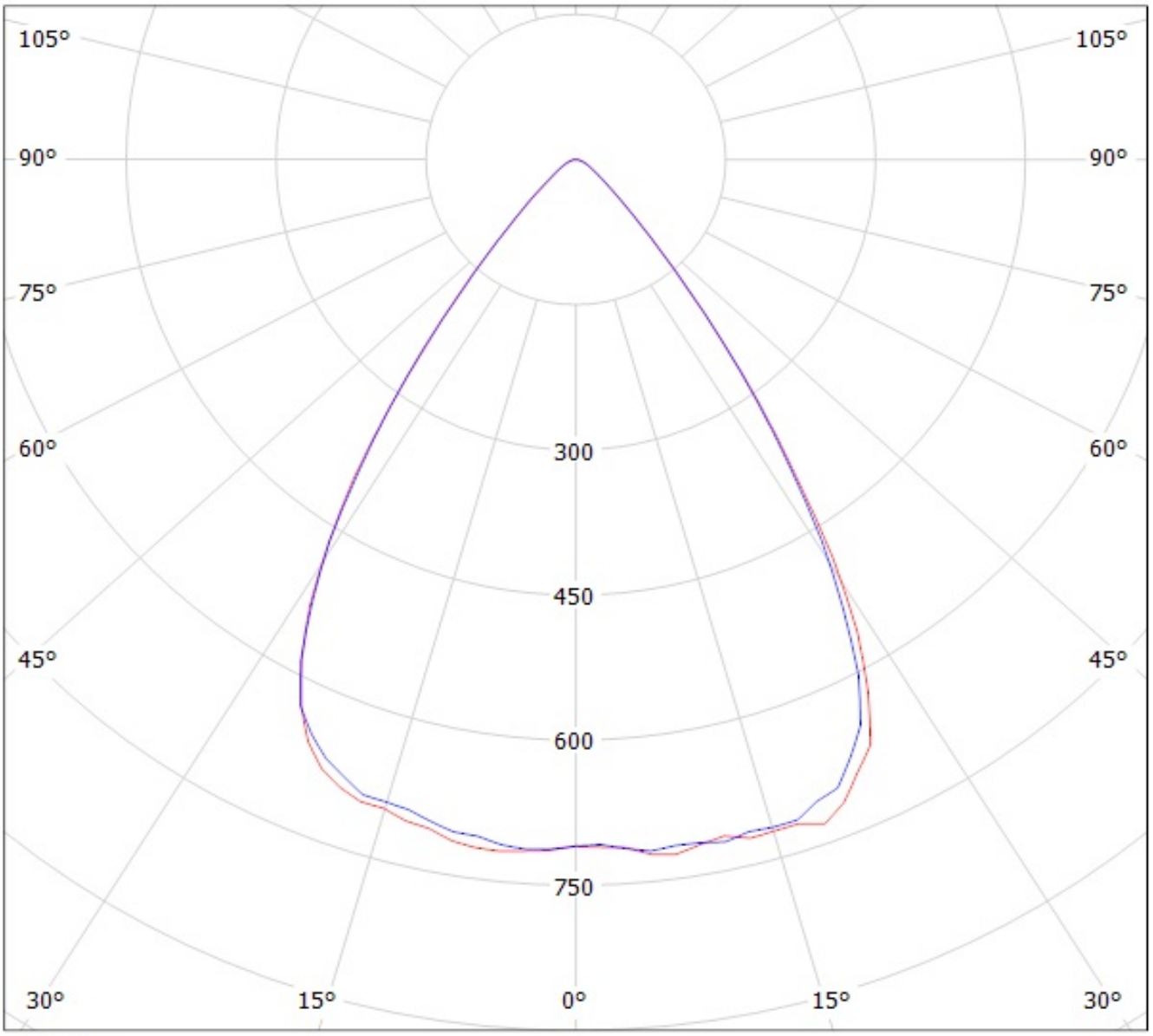
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Lamps: 2 x Tridonic_Module_RLE_G1_2288lm@700mA_P=16W_I=0.700A



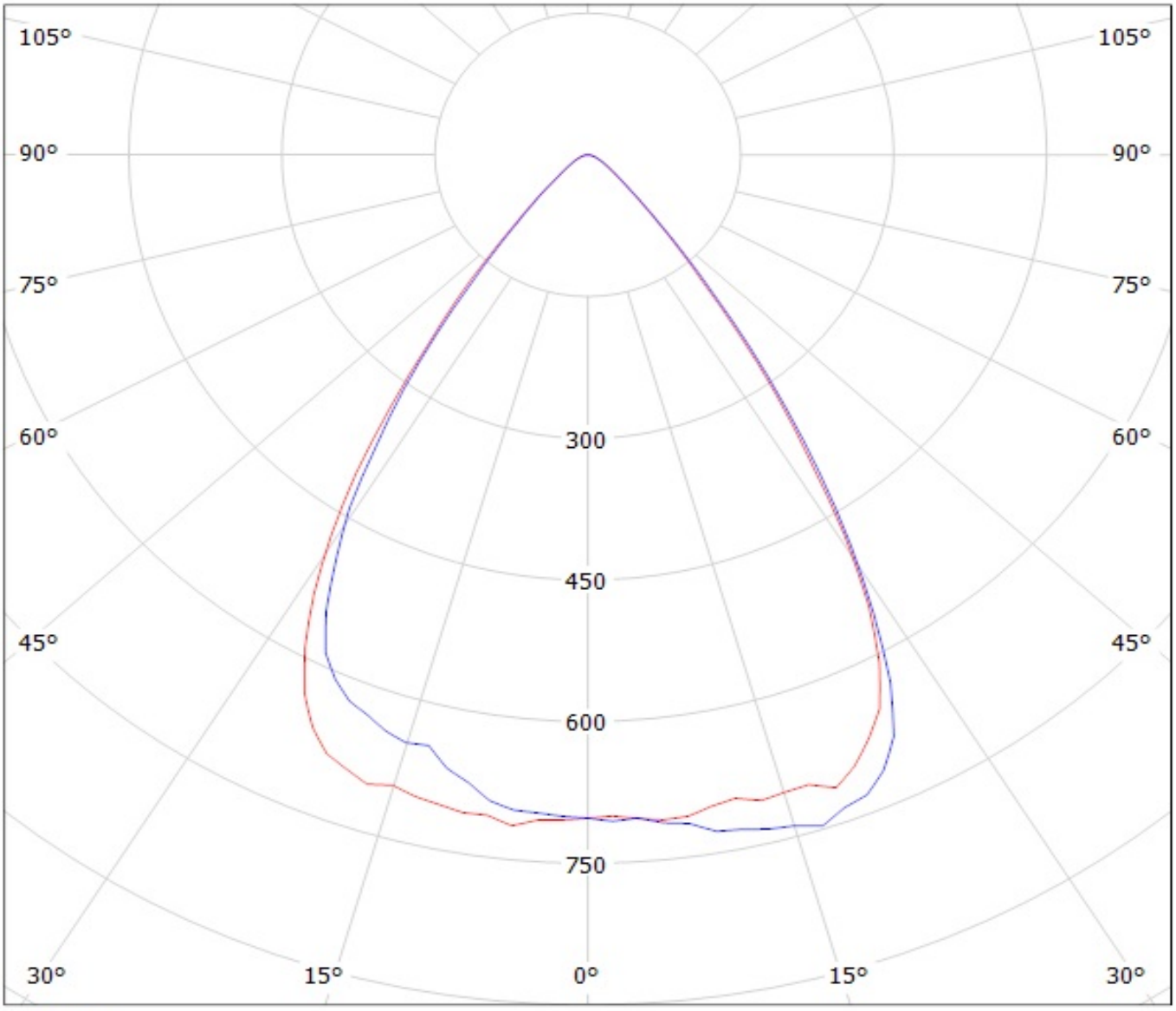
Luminaire: Ledil Oy C13237&C13232_HB-2X2-WW (Cree XT-E 390lm @ 250mA) Efficiency=91%
Lamps: 1 x Cree XT-E 390lm @ 250mA



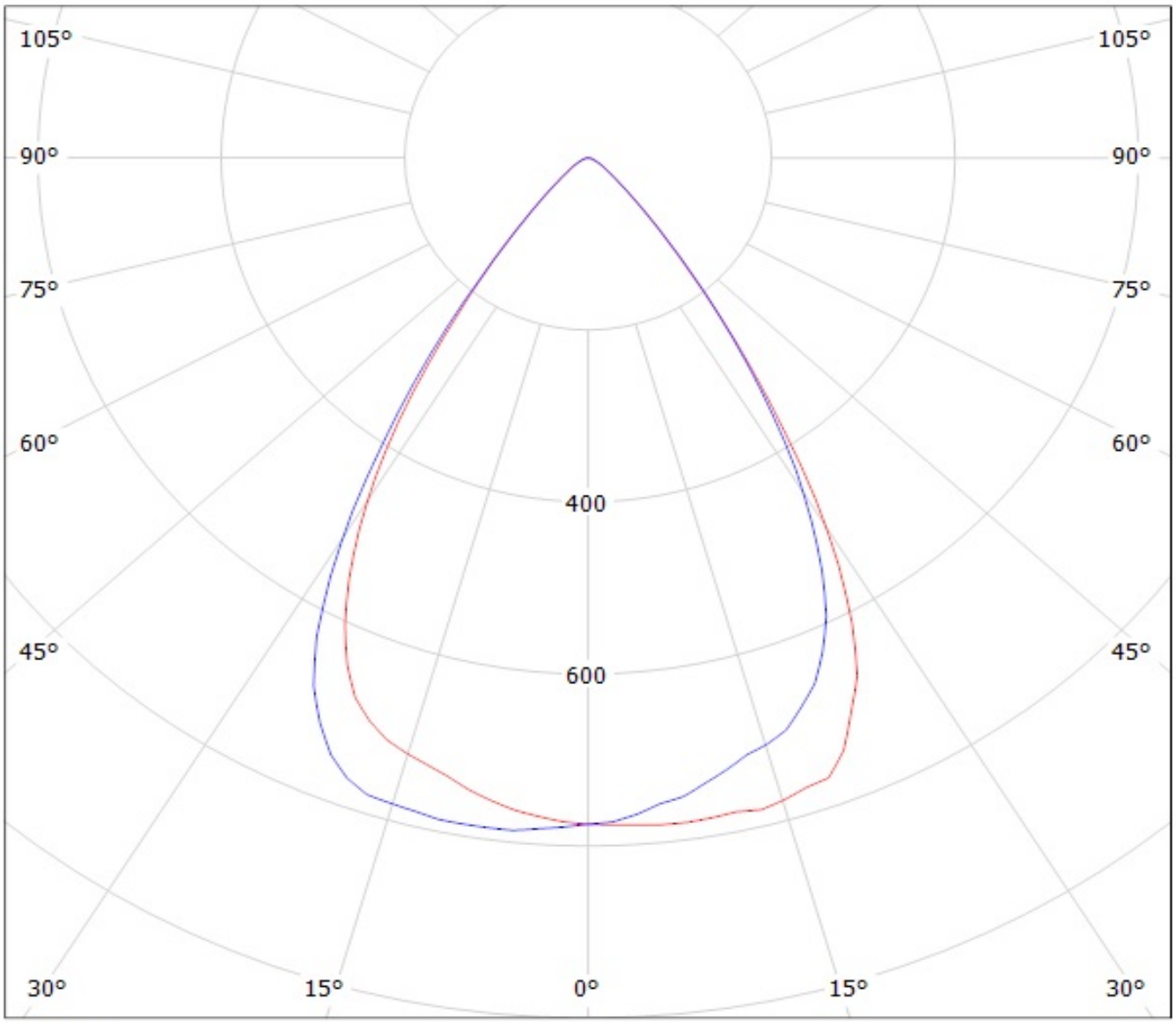
Luminaire: Ledil Oy C13237&C13232_HB-2X2-WW (Cree XP-G2 420lm @ 250mA) Efficiency=91%
Lamps: 1 x Cree XP-G2 420lm @ 250mA



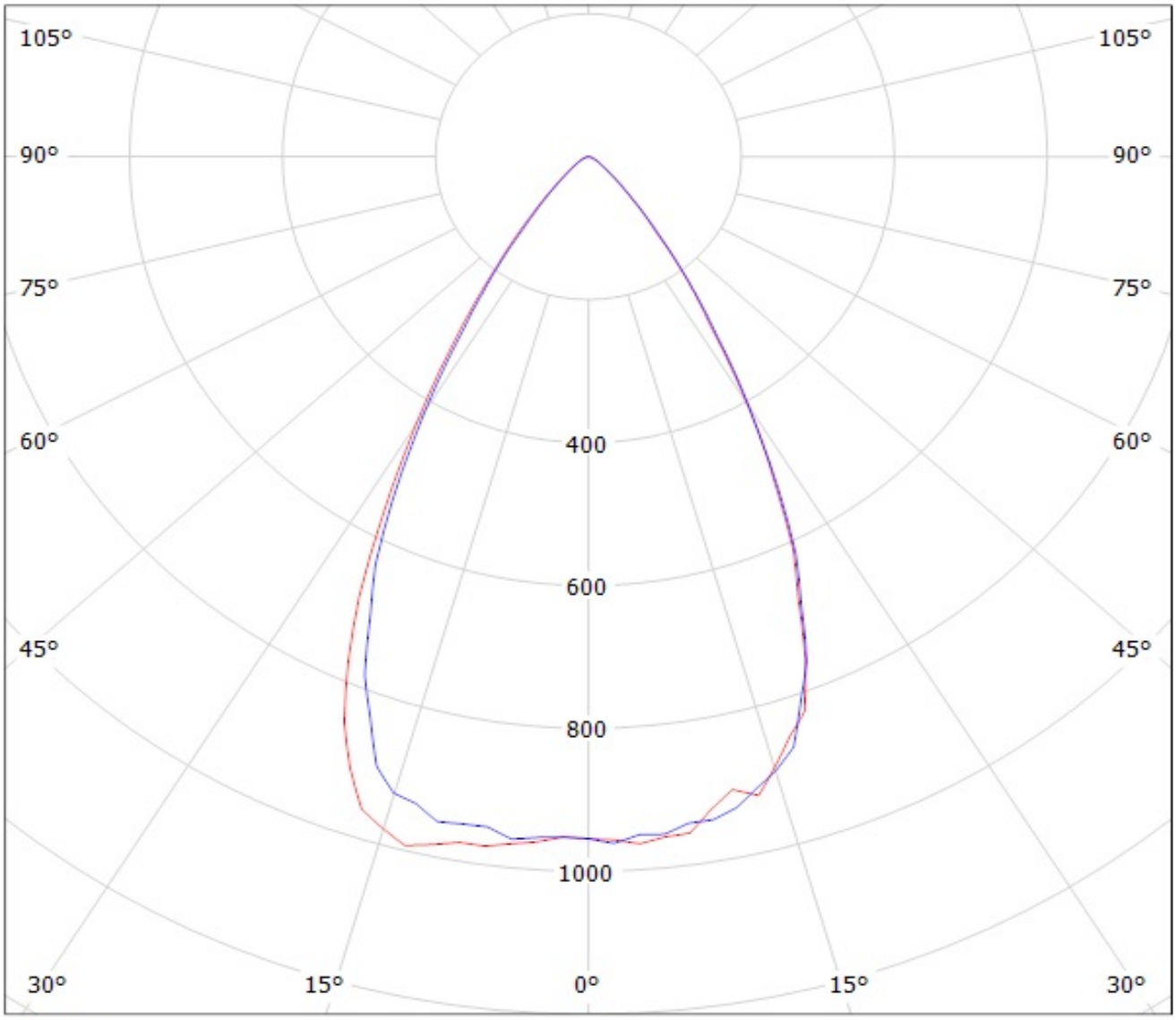
Luminaire: Ledil Oy C13237&C13232_HB-2X2-WW (Cree XP-G 257lm @ 250mA) Efficiency=91%
Lamps: 1 x Cree XP-G 257lm @ 250mA



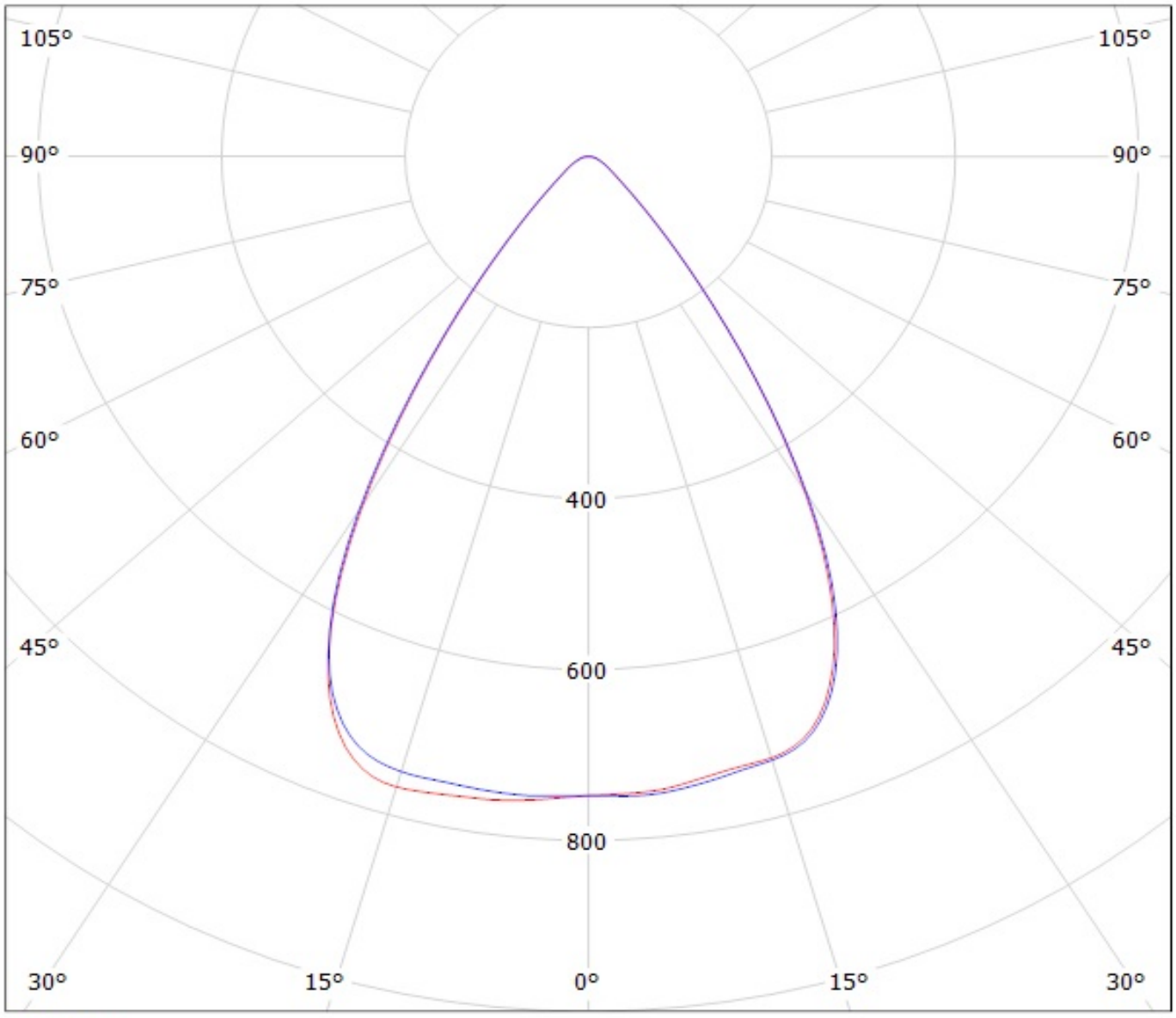
Luminaire: Ledil Oy C13232_HB-2x2-WW_(3535_Ceramic_gen2) Efficiency=89%
Lamps: 1 x LG 3535 Ceramic gen2 (PKG5700K) 461lm @ 250mA CCT=6600K P=2.9W I=250mA



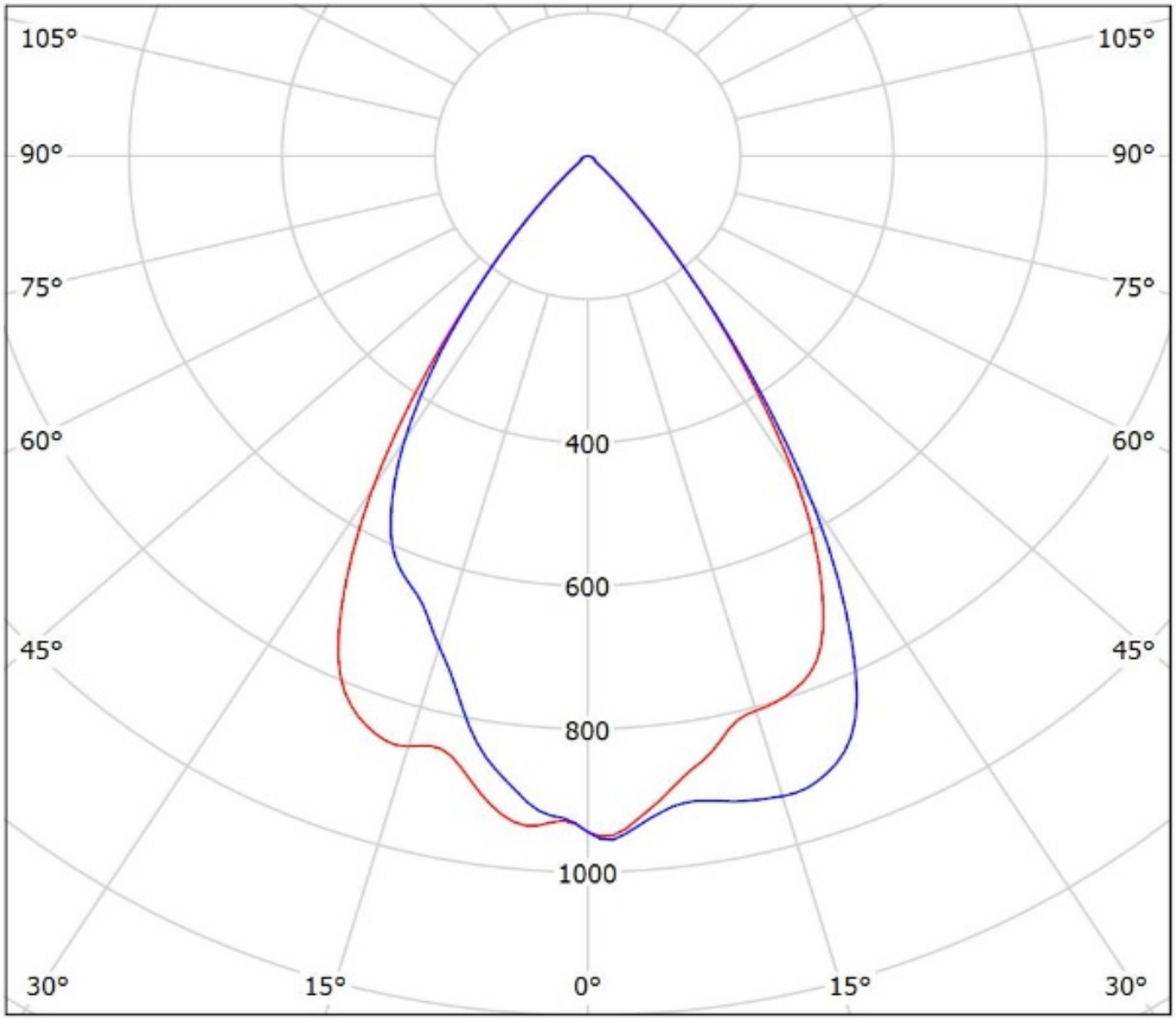
Luminaire: Ledil Oy C13232_HB-2X2-WW_(Luxeon_Z_ES) Efficiency=90%
Lamps: 1 x Luxeon Z ES (LXZ2-3090) 209lm @ 250mA CCT=3000k P=2.8W I=250mA



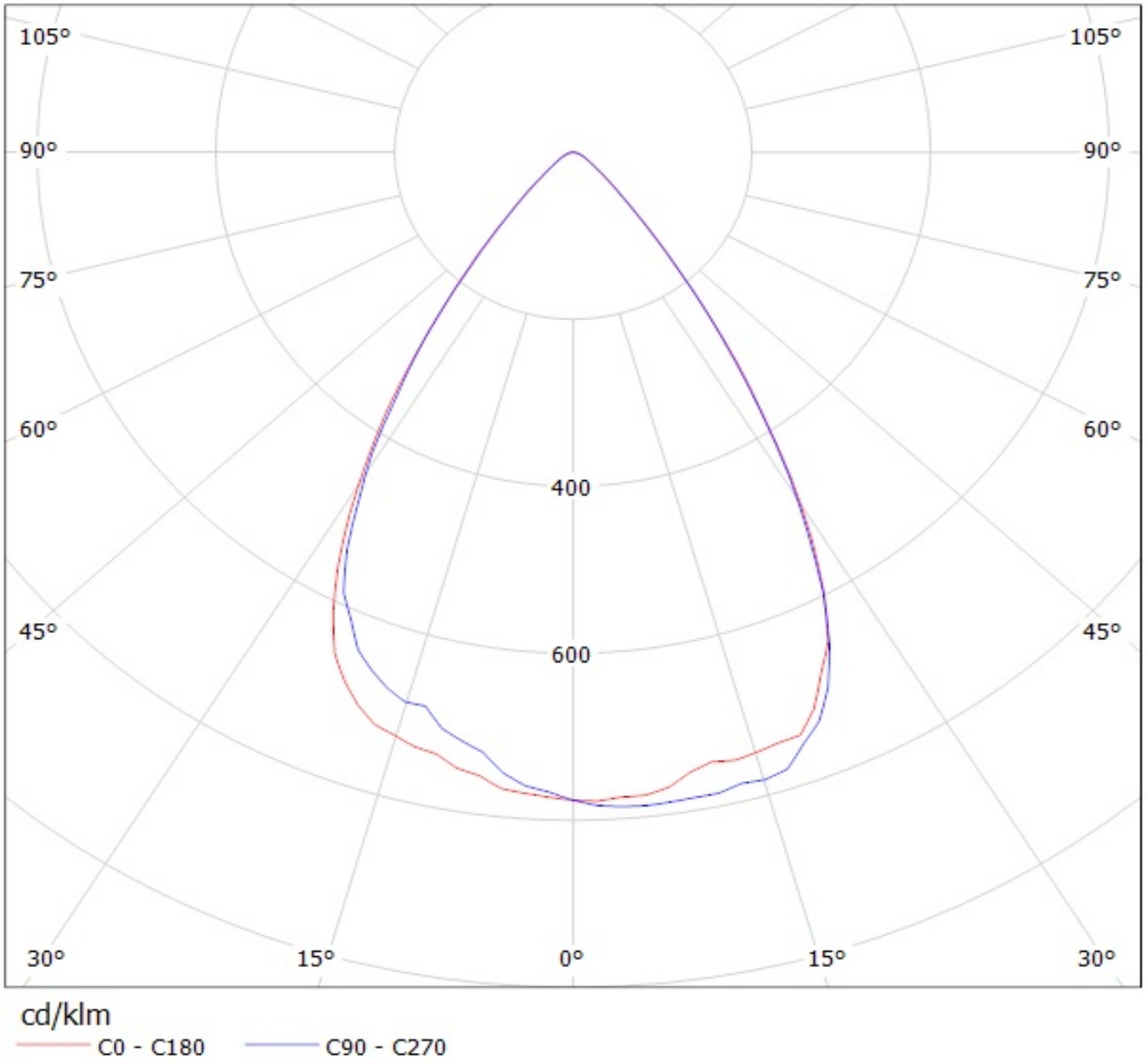
Luminaire: LEDiL Oy C13232_HB-2X2-WW_(LUXEON_Q) Eff.90.8%
Lamps: 1 x LUXEON_Q_2x2_(LHQ-3080)_298.363lm@250mA_P=2.87385W_I=249.9mA



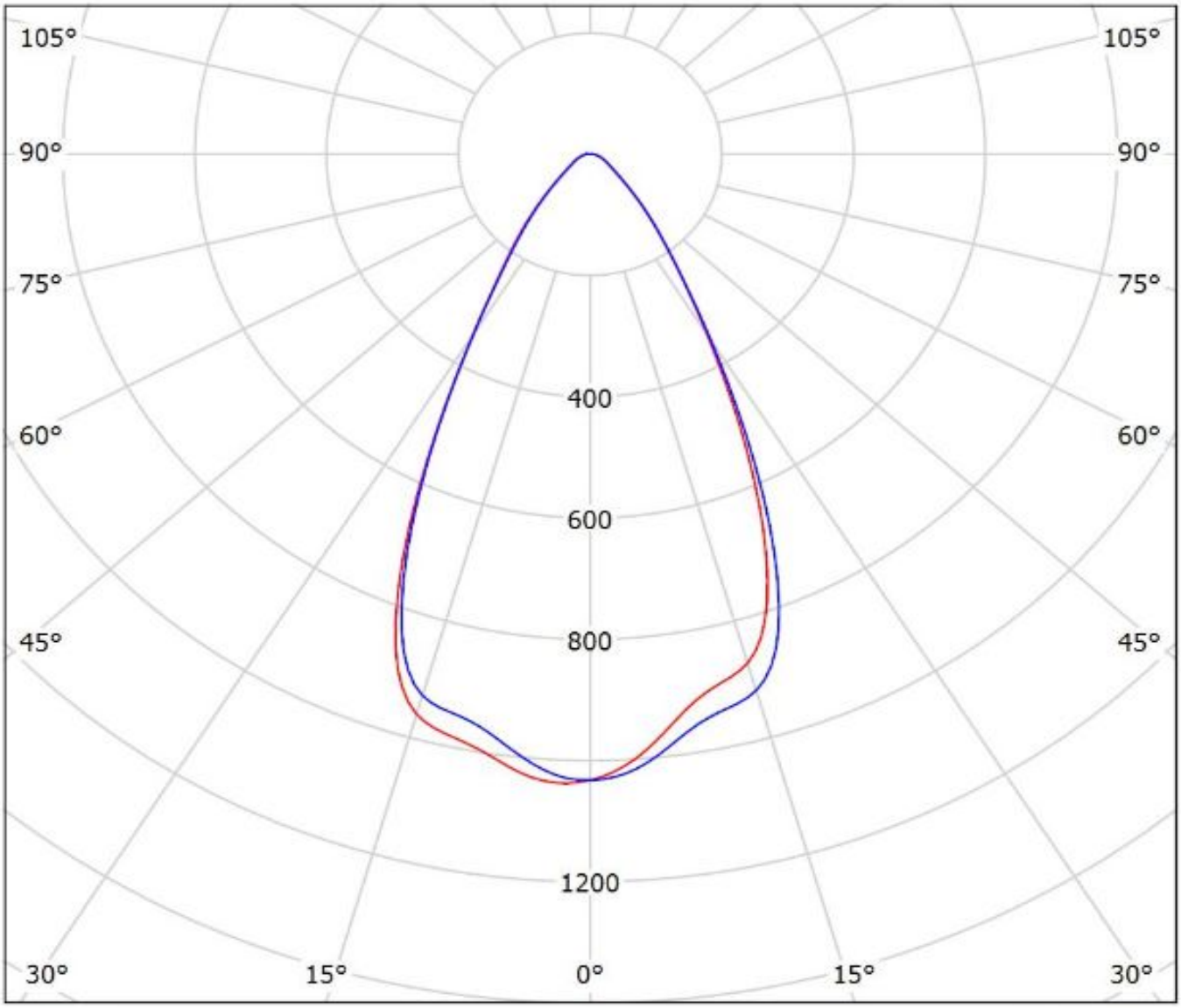
Luminaire: Ledil Oy C13232_HB-2X2-WW_(Luxeon_3030_2D)_SIMULATED
Lamps: 1 x Lumileds Luxeon 3030 2D



Luminaire: Ledil Oy C13237&C13232_HB-2X2-WW (Nichia NVS19B 306lm @ 250mA) Efficiency=91%
Lamps: 1 x Nichia NVS19B 306lm @ 250mA



Luminaire: LEDiL Oy C13232_HB-2X2-WW_(E21A_2X2)
Lamps: 1 x Nichia_E21A_2X2_451.614lm@250mA_P=2.8045W_I=0.250A

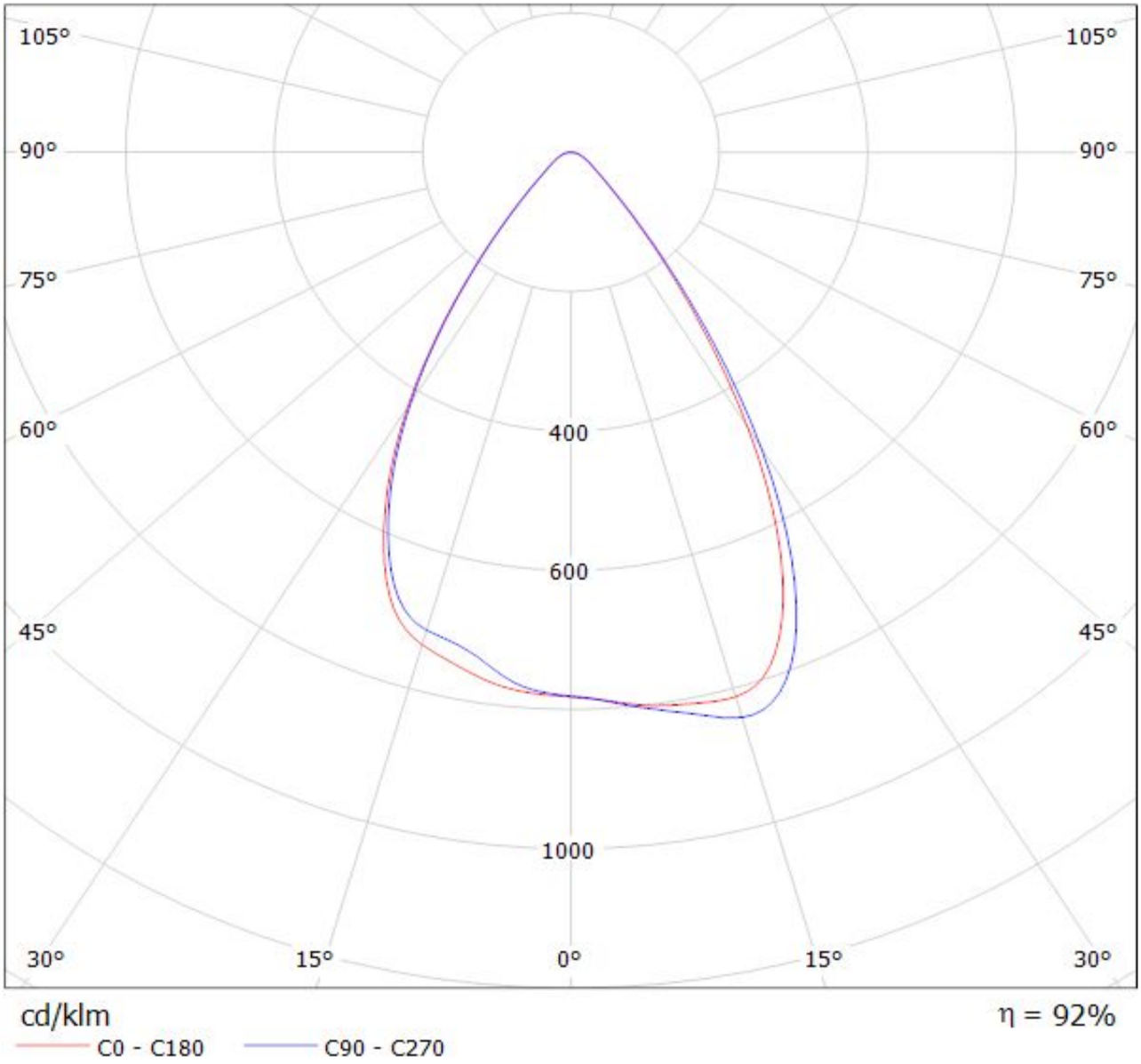


cd/klm

η = 95%

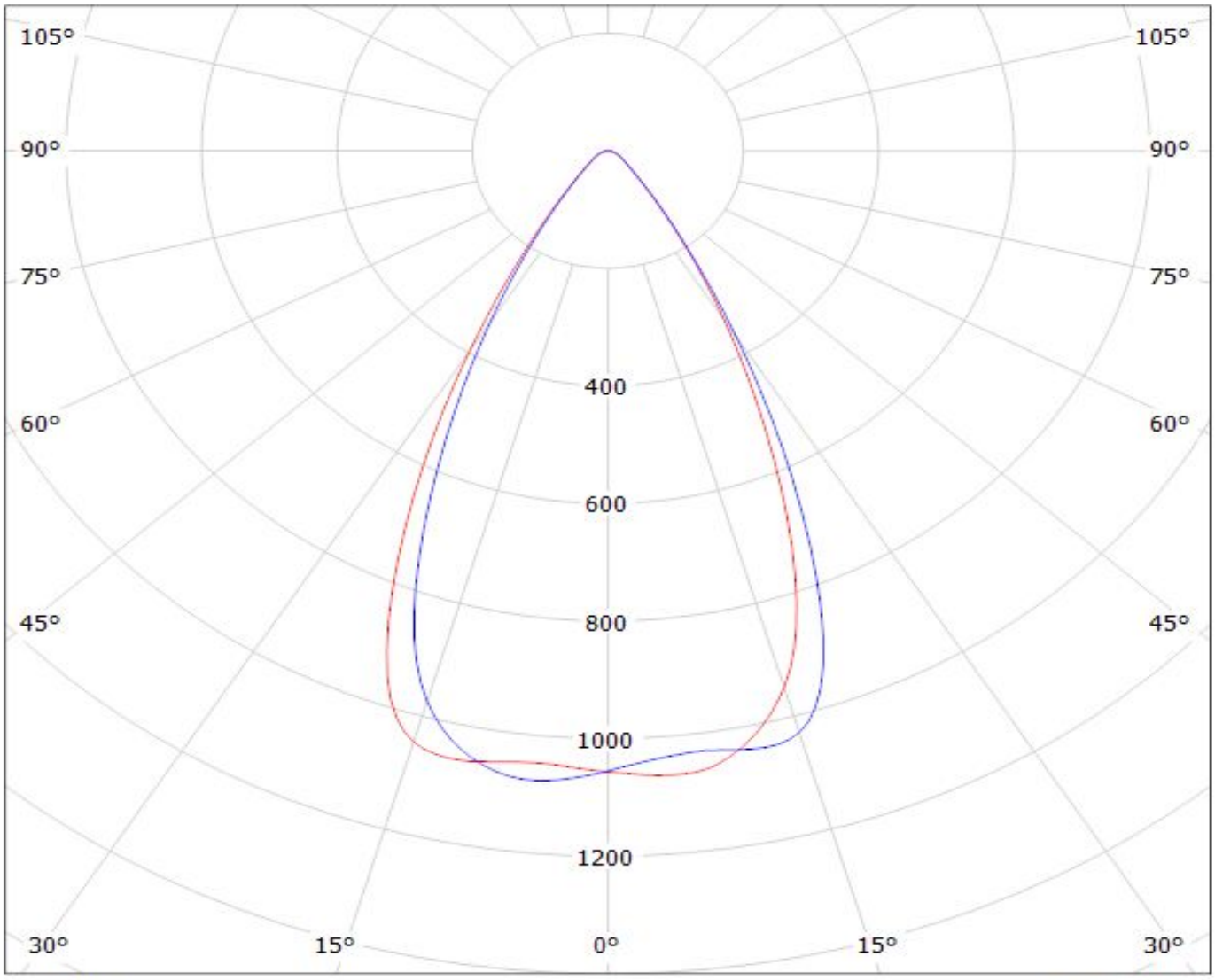
C0 - C180 C90 - C270

Luminaire: LEDiL Oy C13232_HB-2x2-WW_(Osram_Square_PC) Eff. 91,6%
Lamps: 1 x Osram Square PC (385lm@100mA)



LEDiL Oy C13232_HB-2x2-WW_(SSL80) Eff.91.5% / LDC (Polar)

Luminaire: LEDiL Oy C13232_HB-2x2-WW_(SSL80) Eff.91.5%
Lamps: 1 x Osram Oslon SSL80 (308lm@250mA)

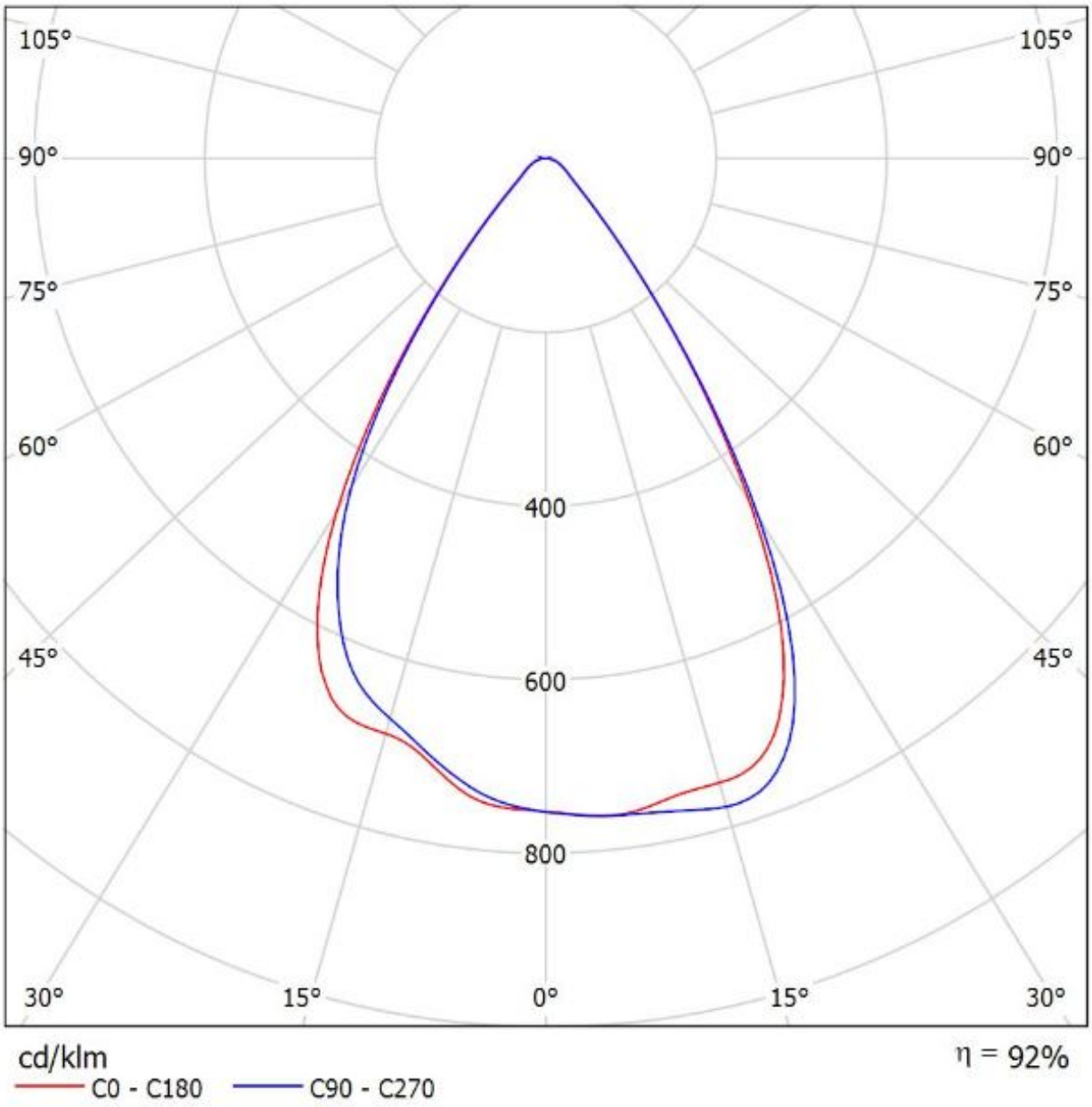


cd/klm

η = 91%

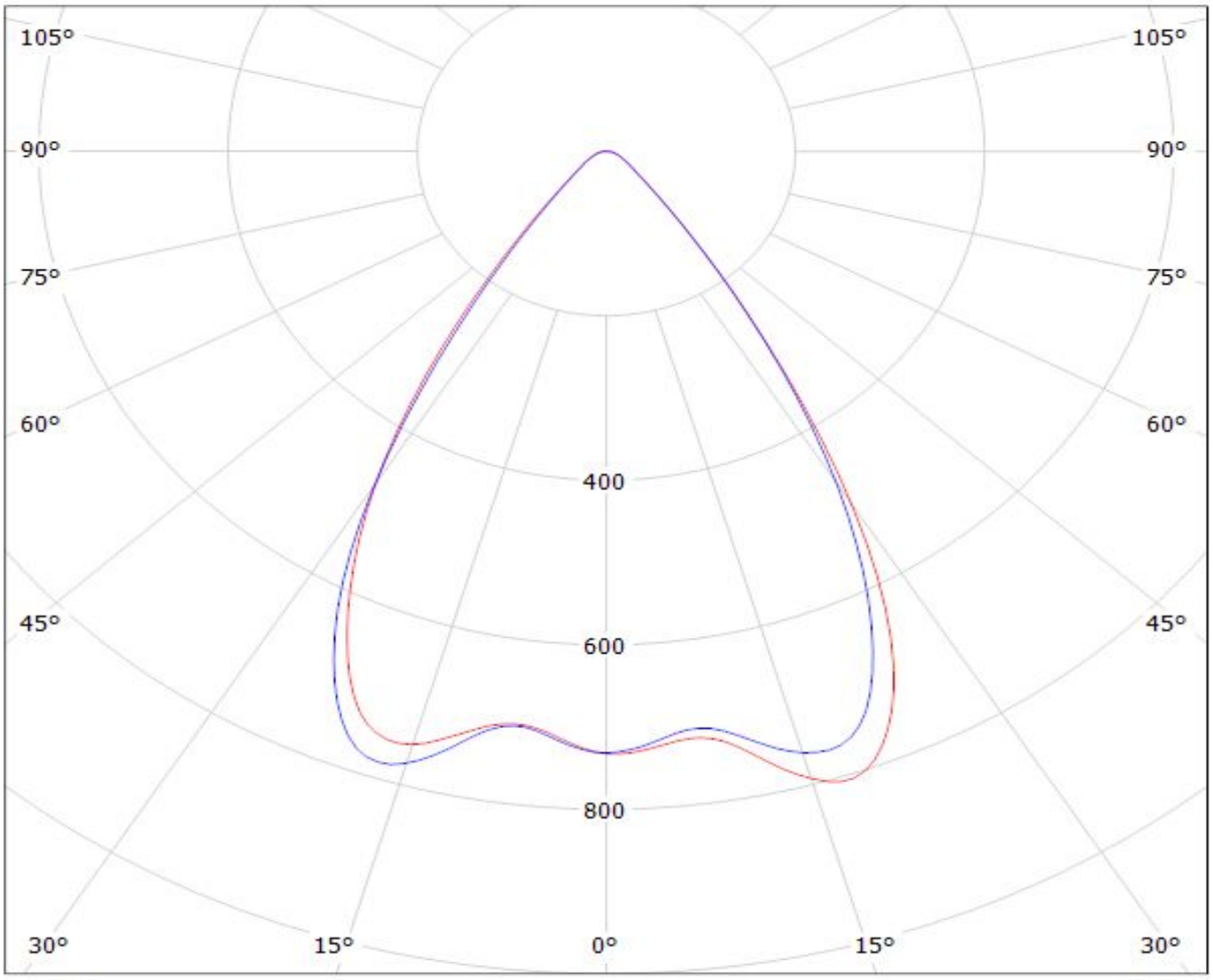
C0 - C180 C90 - C270

Luminaire: Ledil C13232_HB_2X2-WW(square_gen3)
Lamps: 1 x Osram_square_gen3_2x2_(GW_CSSRM2.PM)_460.271lm@250mA_CCT=5000K_P=2.80625W_I=0.25A



LEDiL Oy C13232_HB-2x2-WW_(Samsung_3535) Eff.92.0% / LDC (Polar)

Luminaire: LEDiL Oy C13232_HB-2x2-WW_(Samsung_3535) Eff.92.0%
Lamps: 1 x Samsung_3535_(LH35A1) (333lm@250mA)

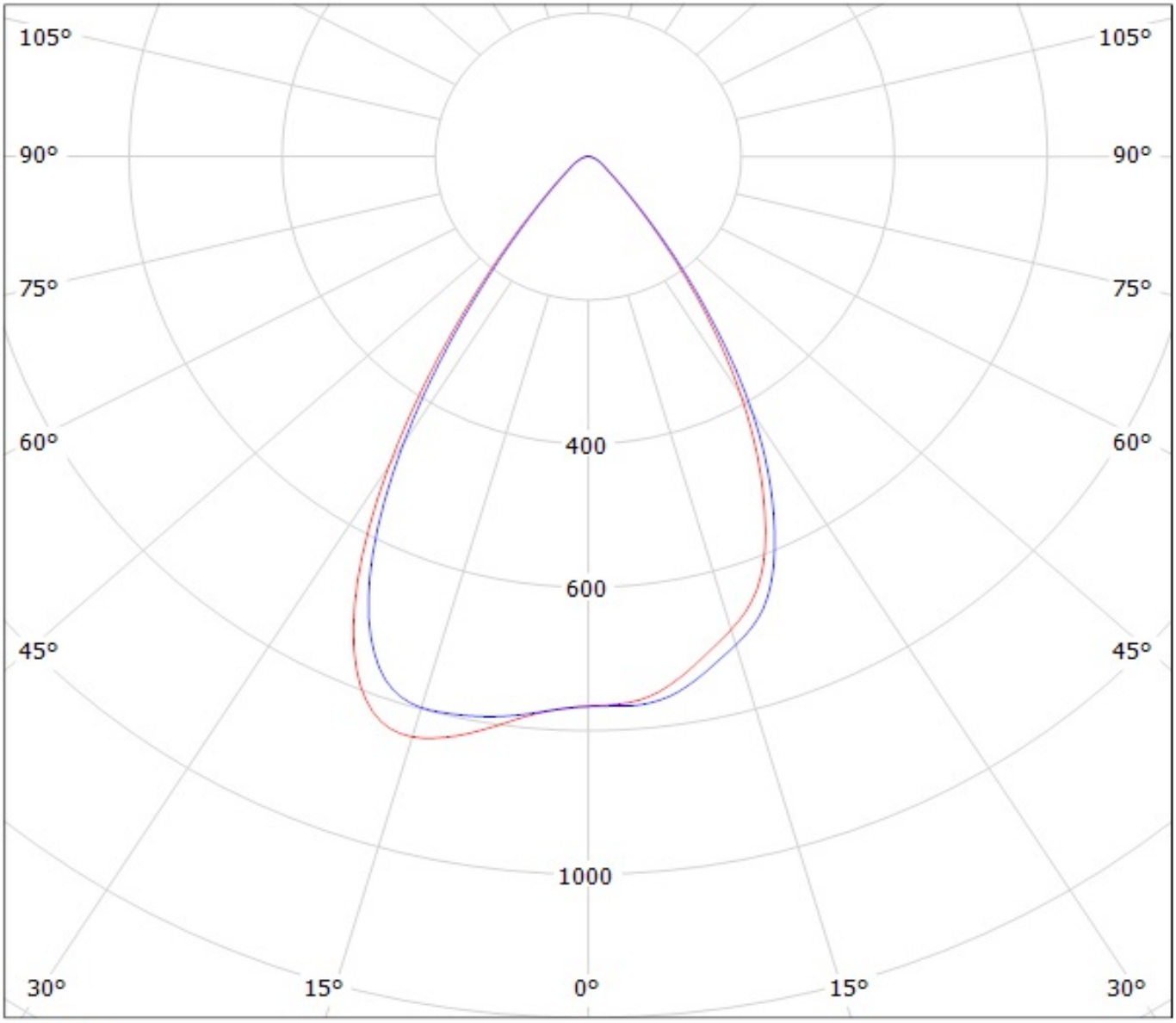


cd/klm

η = 92%

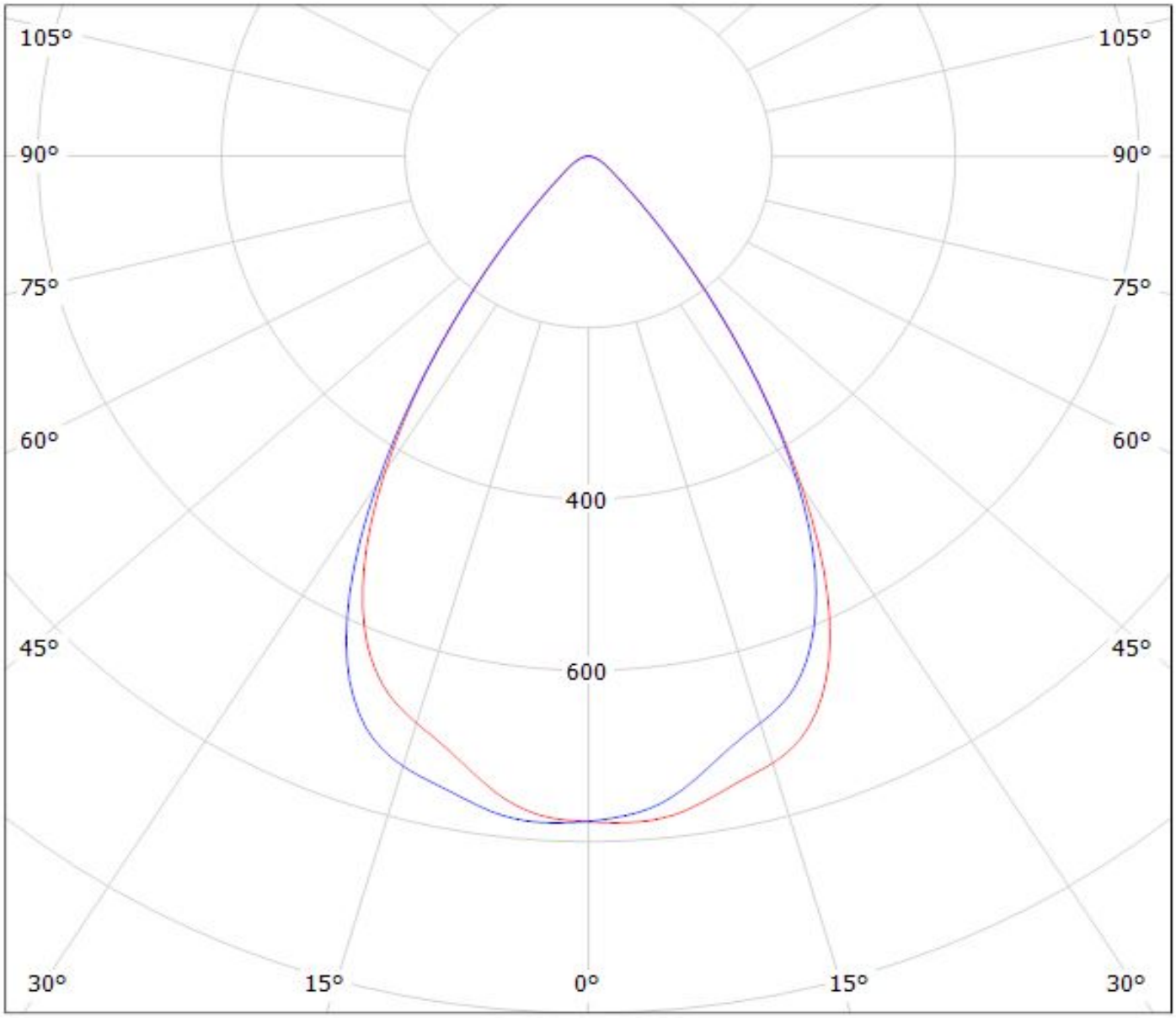
C0 - C180 C90 - C270

Luminaire: LEDiL Oy C13232_HB-2X2-WW_(LH351Z) Eff.89.0%
Lamps: 1 x SAMSUNG_LH351Z_2x2_359.49lm@250mA_P=2.86371W_I=249.8mA



cd/klm
C0 - C180
C90 - C270

Luminaire: LEDiL Oy C13232_HB-2X2-WW_(LH351B) Eff.88.6%
Lamps: 1 x SAMSUNG_LH351B_2x2_430.715lm@250mA_P=2.84311W_I=249.9mA

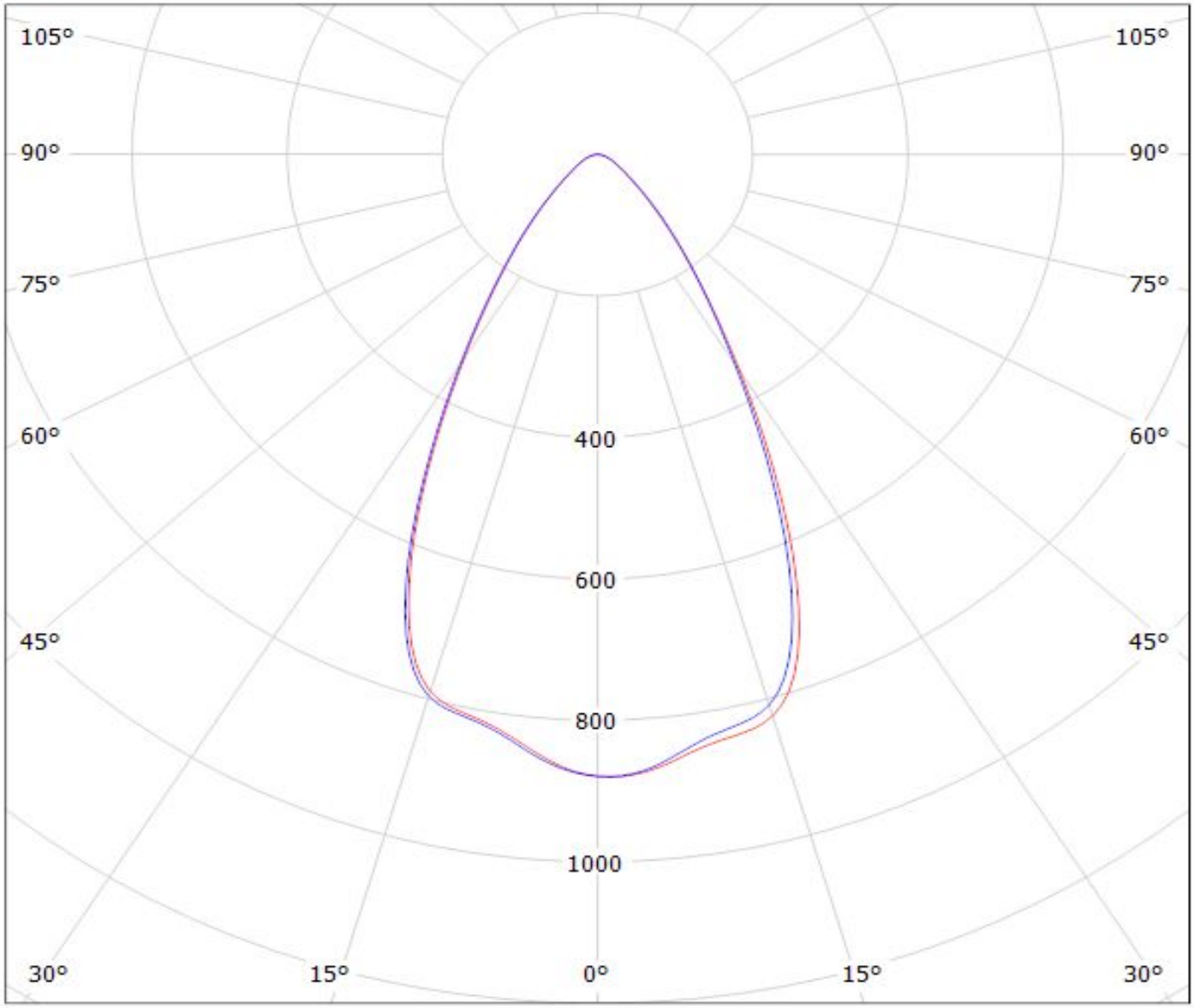


cd/klm

η = 89%

C0 - C180 C90 - C270

Luminaire: LEDiL Oy C13232_HB-2X2-WW_(WICOP2_Z8Y19)
Lamps: 1 x SEOUL_WICOP2_Z8Y19_450.124lm@250mA_P=2.8579W_I=0.250A

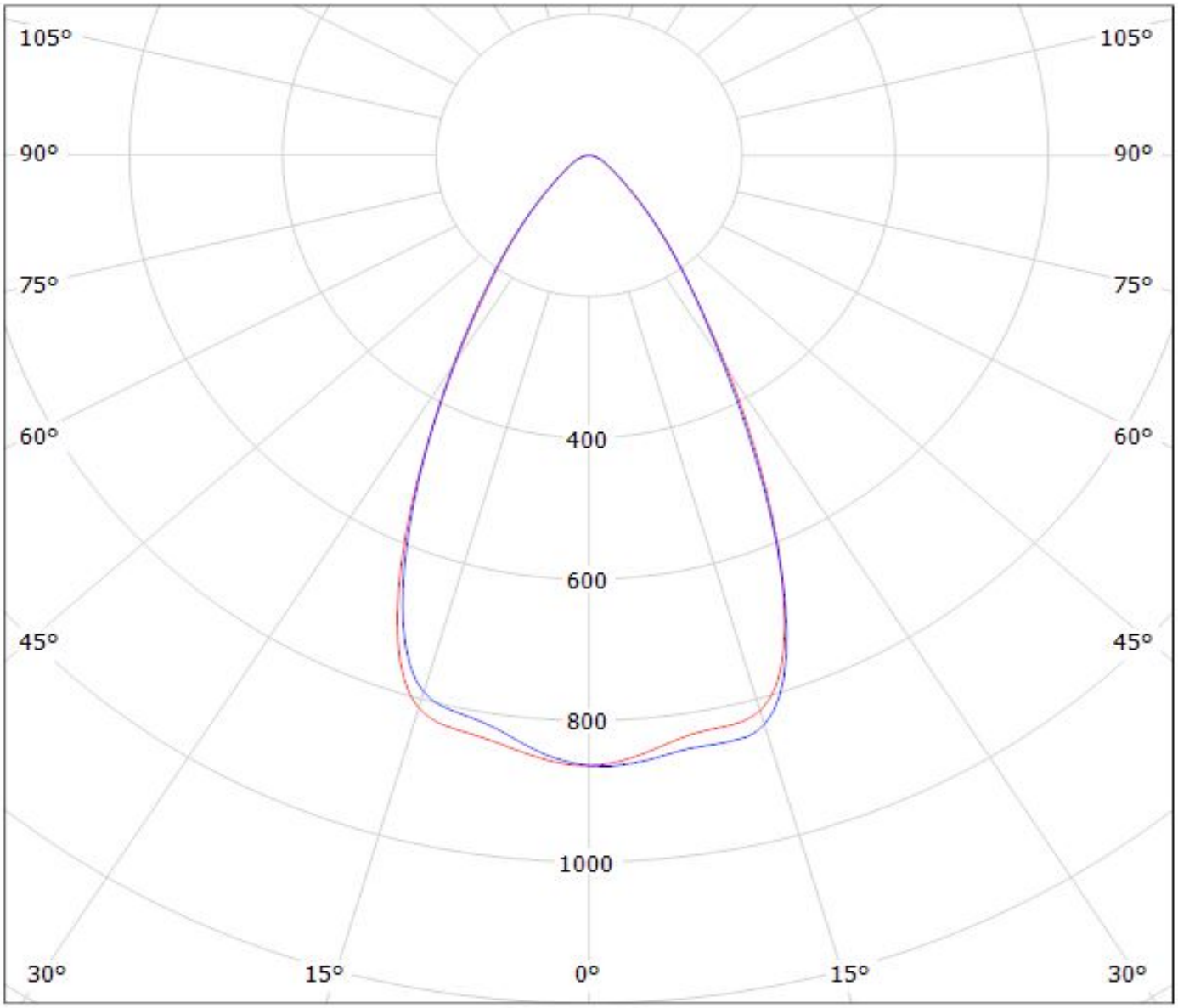


cd/klm

η = 85%

C0 - C180 C90 - C270

Luminaire: LEDiL Oy C13232_HB-2X2-WW_(WICOP2_Z8Y15)
Lamps: 1 x SEOUL_WICOP2_Z8Y15_336.842lm@250mA_P=2.9399W_I=0.250A

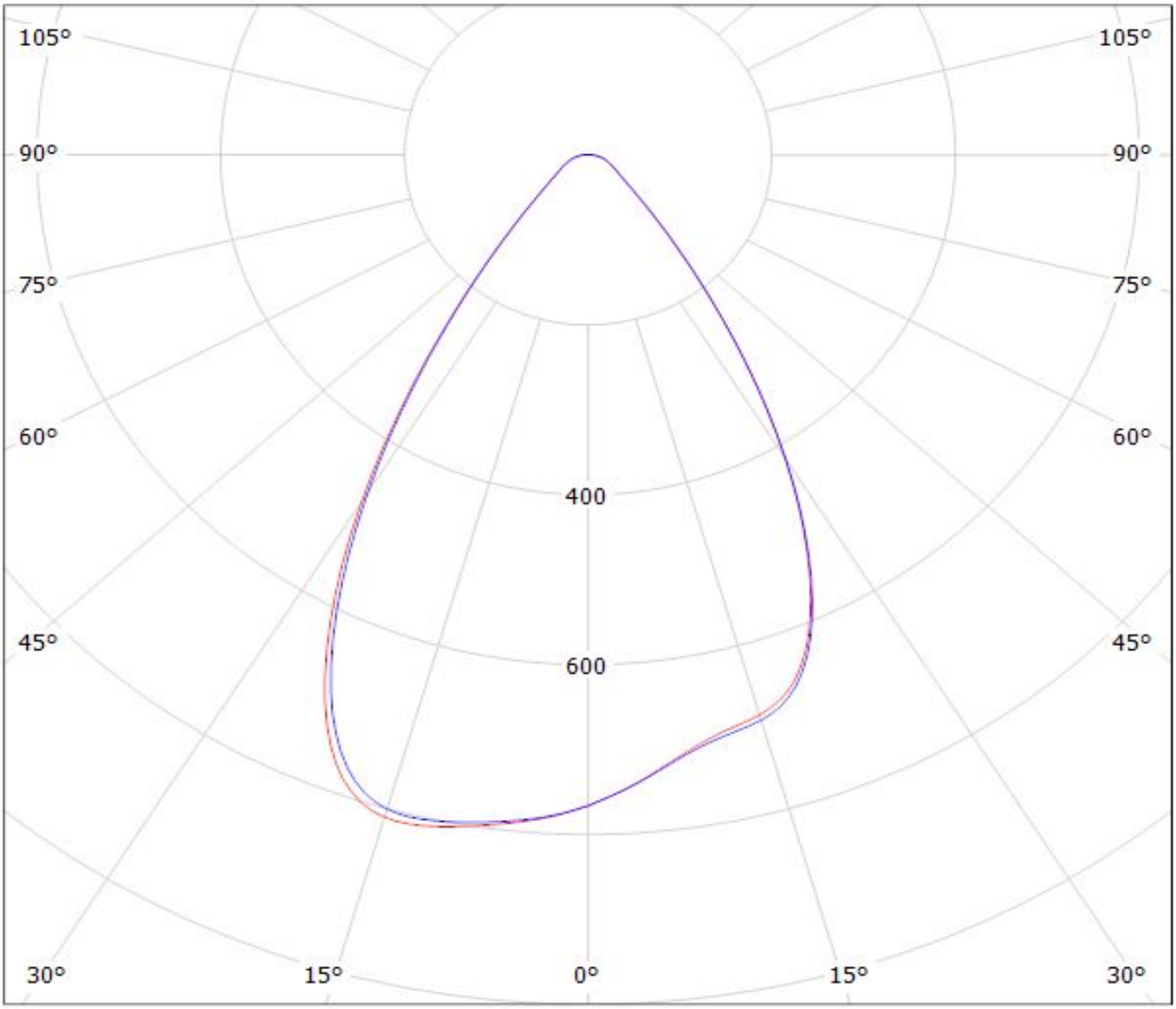


cd/klm

η = 85%

C0 - C180 C90 - C270

Luminaire: LEDiL Oy C13232_HB-2X2-WW_(Z8Y22+)
Lamps: 1 x Seoul_Z8Y22+_(W6E2G)_498.702lm@250mA_P=2.72132W_I=0.250A

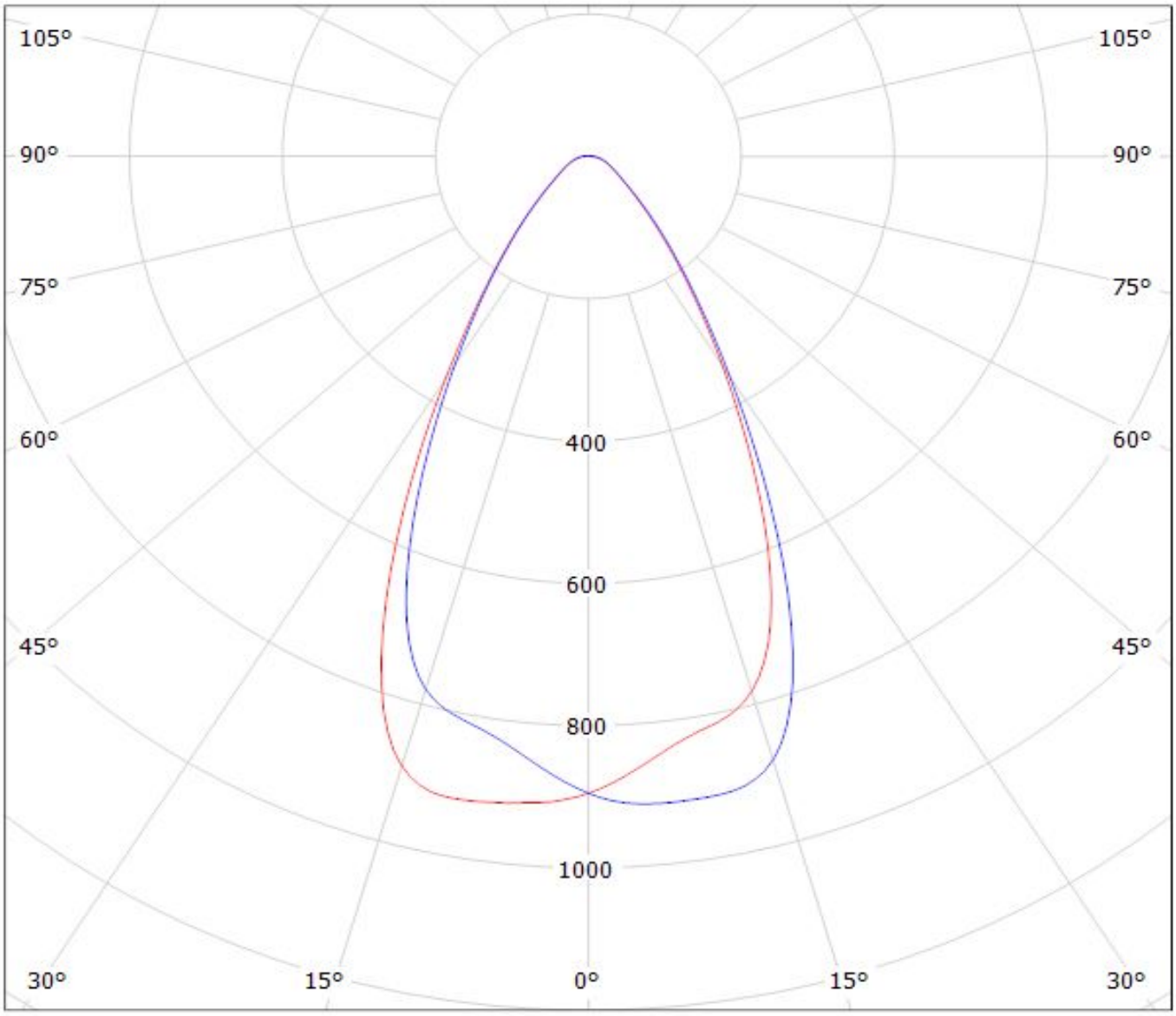


cd/klm

η = 95%

C0 - C180 C90 - C270

Luminaire: LEDiL Oy C13232_HB-2X2-WW_(Z8Y22)
Lamps: 1 x Seoul_Wicop_Z8Y22_497.373lm@250mA_P=2.80076W_U=11.211V



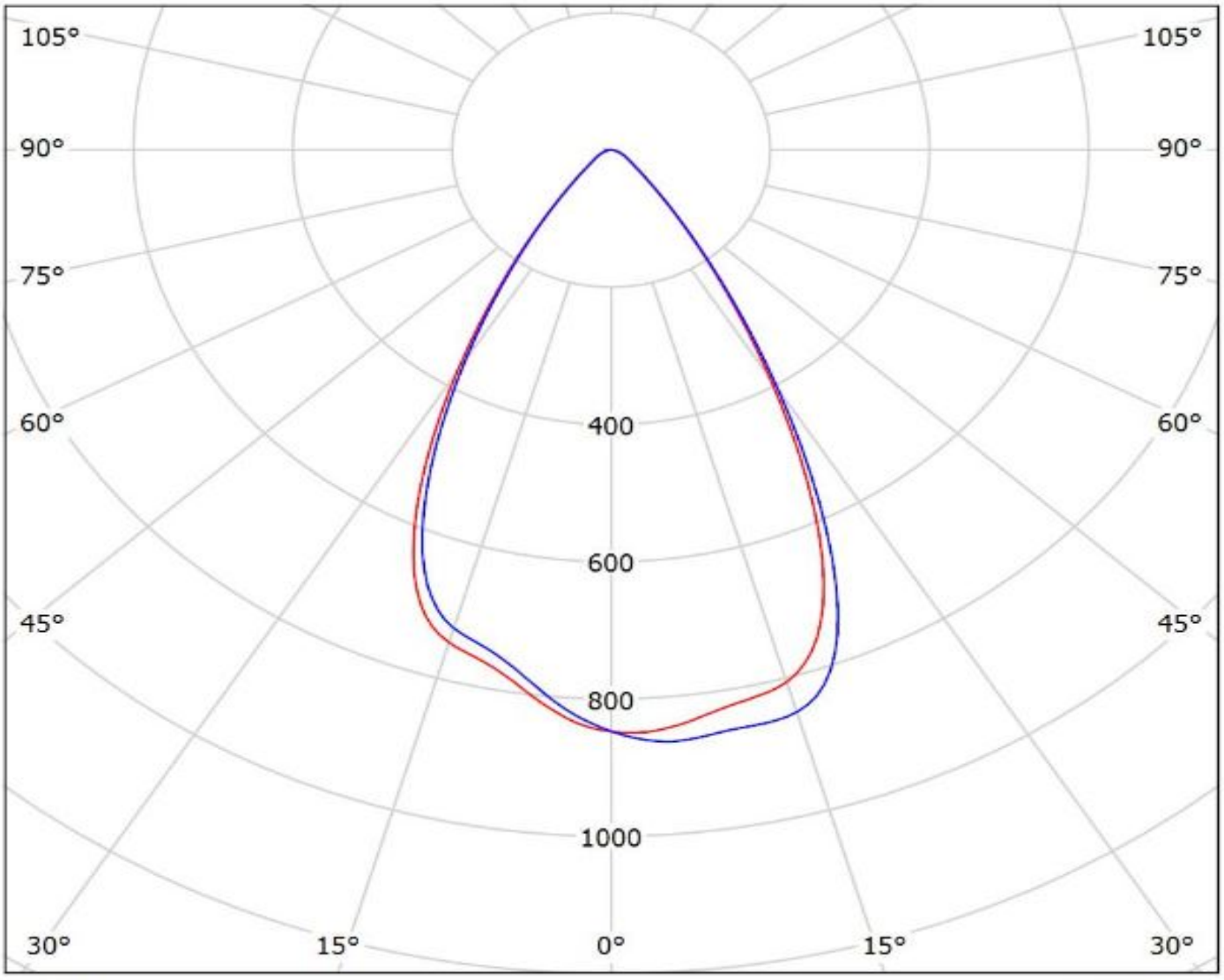
cd/klm

η = 94%

C0 - C180 C90 - C270

Ledil C13232_HB-2X2-WW_(TL1L4) / LDC (Polar)

Luminaire: Ledil C13232_HB-2X2-WW_(TL1L4)
Lamps: 1 x Toshiba_TL1L4_2x2_(TL1L4-DW0)_472.639lm@250mA_CCT=6500K_P=2.9W_I=0.25A

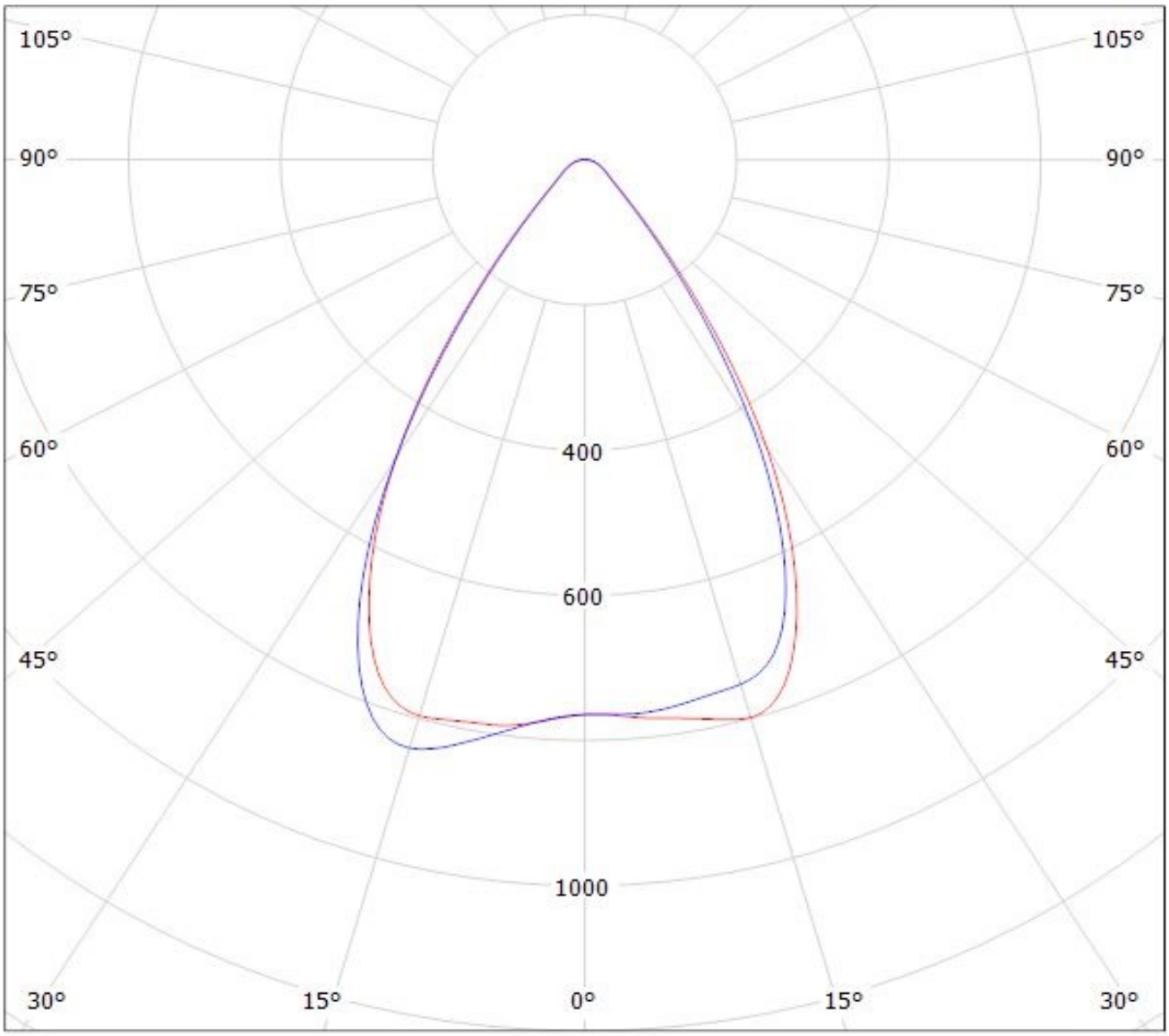


cd/klm

η = 84%

C0 - C180 C90 - C270

Luminaire: LEDiL Oy C13232_HB-2X2-WW_(Tridonic_Module_RLE_G1)
Lamps: 1 x Tridonic_Module_RLE_G1_4576.03lm@700mA_P=32.0681W_I=0.700A

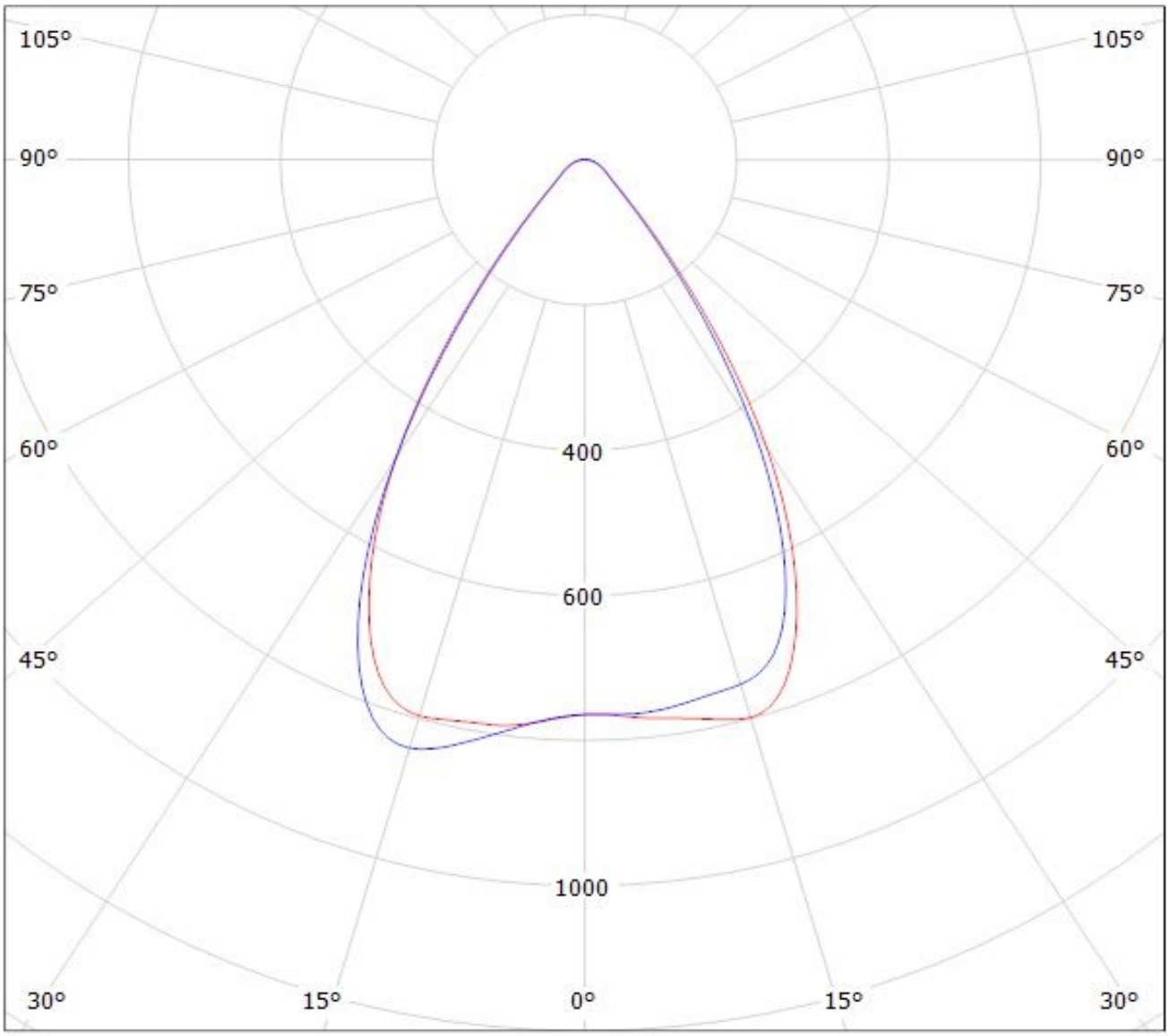


cd/klm

η = 94%

C0 - C180 C90 - C270

Luminaire: LEDiL Oy C13232_HB-2X2-WW_(Tridonic_Module_RLE_G1)
Lamps: 1 x Tridonic_Module_RLE_G1_4576.03lm@700mA_P=32.0681W_I=0.700A

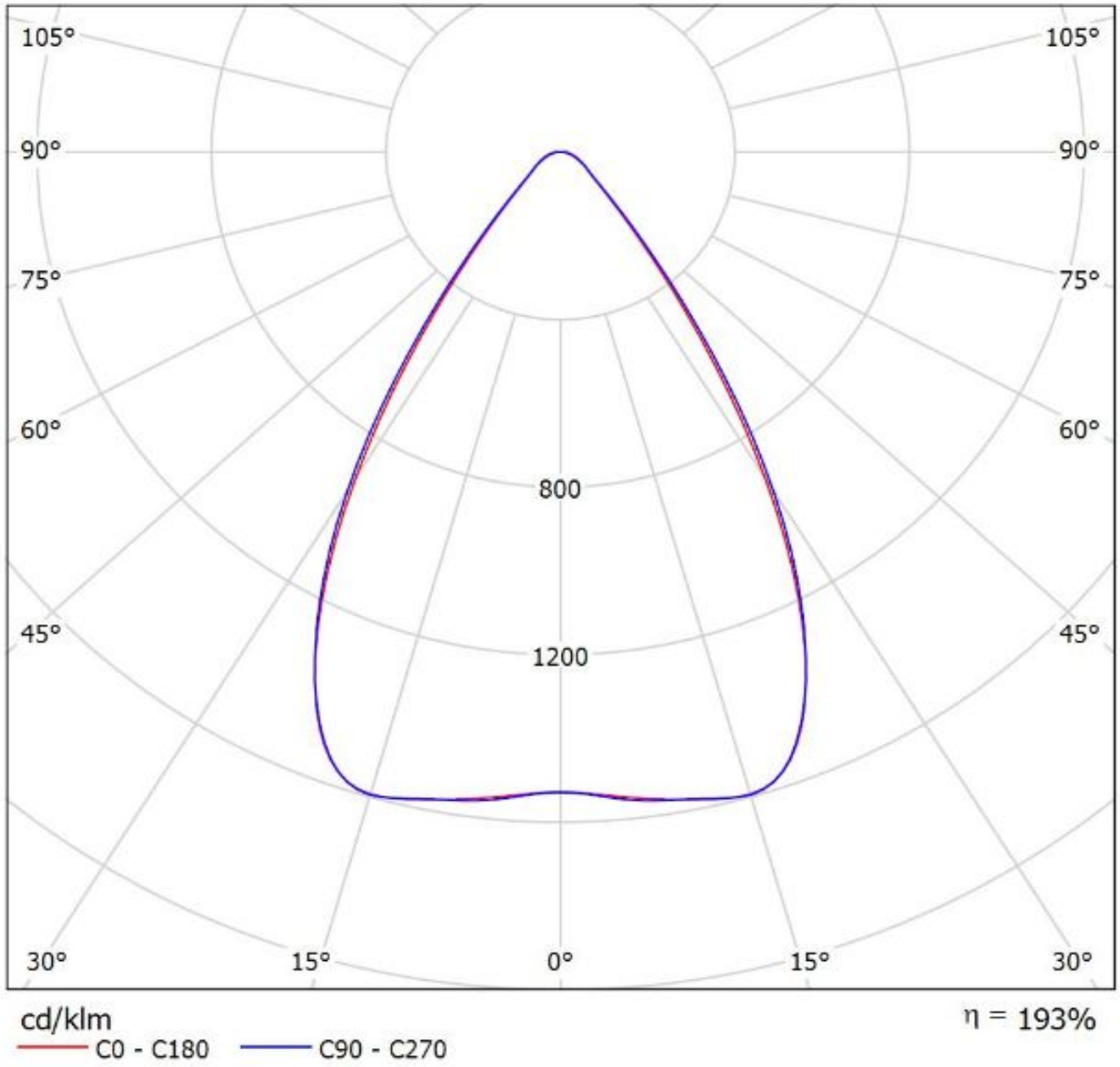


cd/klm

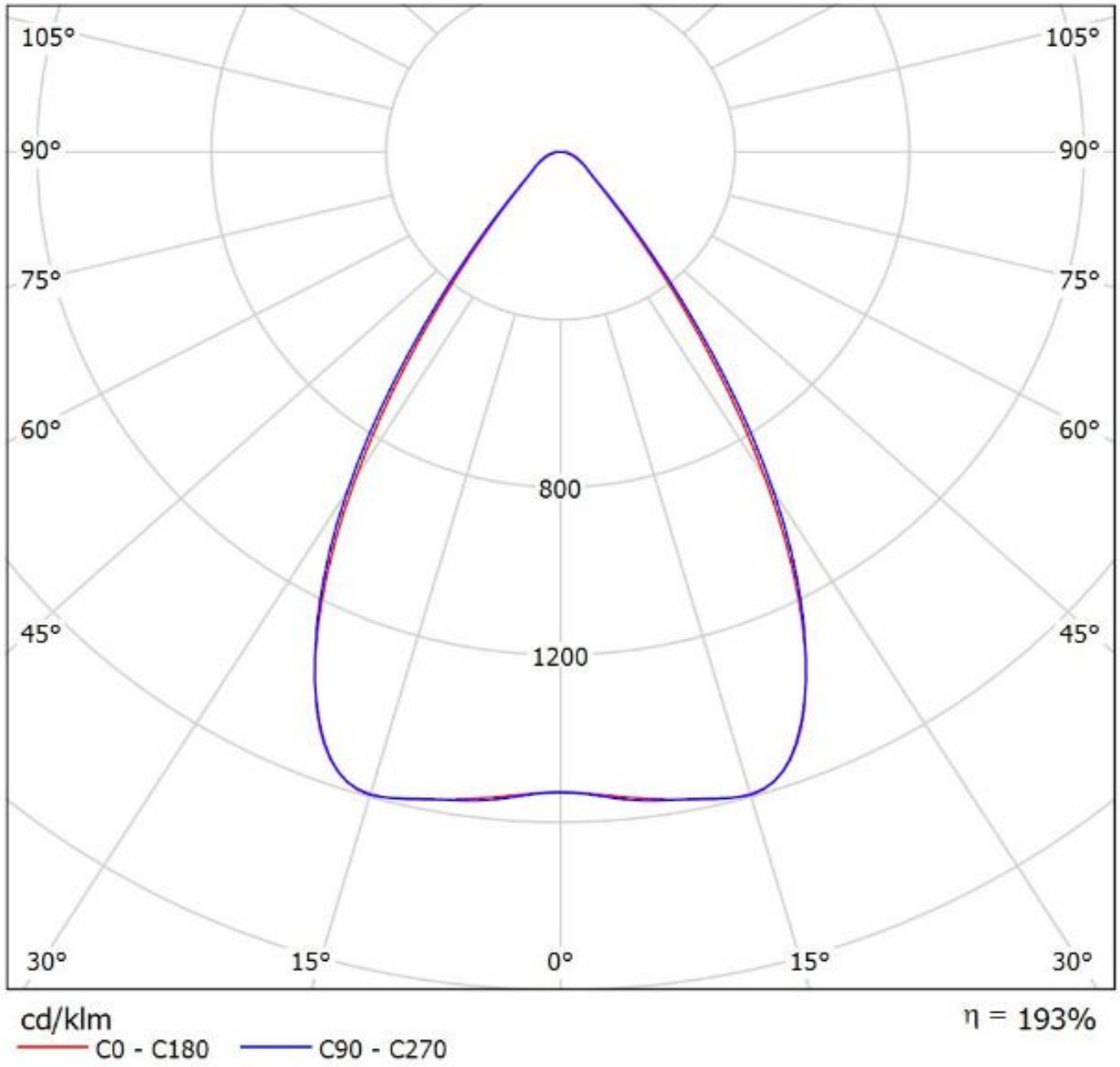
η = 94%

C0 - C180 C90 - C270

Luminaire: LEDiL Oy C13232_HB-2X2-WW_(Tridonic_Module_RLE_G1)
Lamps: 2 x Tridonic_Module_RLE_G1_2288lm@700mA_P=16W_I=0.700A



Luminaire: LEDiL Oy C13232_HB-2X2-WW_(Tridonic_Module_RLE_G1)
Lamps: 2 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.