PRODUCT DATASHEET
Virpi series
last update 2/3/2017

DETAILS

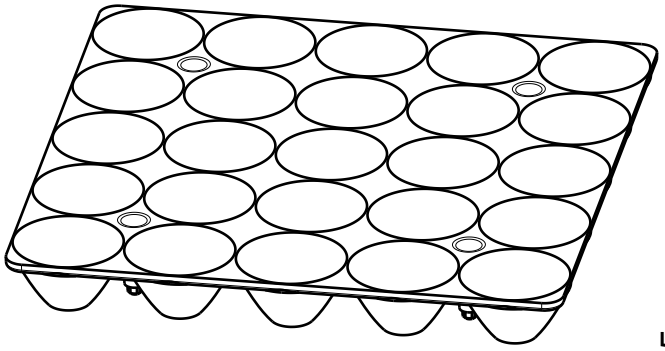
Product Number	C12609_VIRPI-W
Family	Virpi
Type	Lens array
Color	clear
Diameter	74,9 x 74,9 mm
Height	9,5 mm
Style	square
Optic Material	PMMA
Holder Material	
Fastening	glue, pin
Status	production ready
ROHS Comliant	Yes
Date Updated	2/03/2017

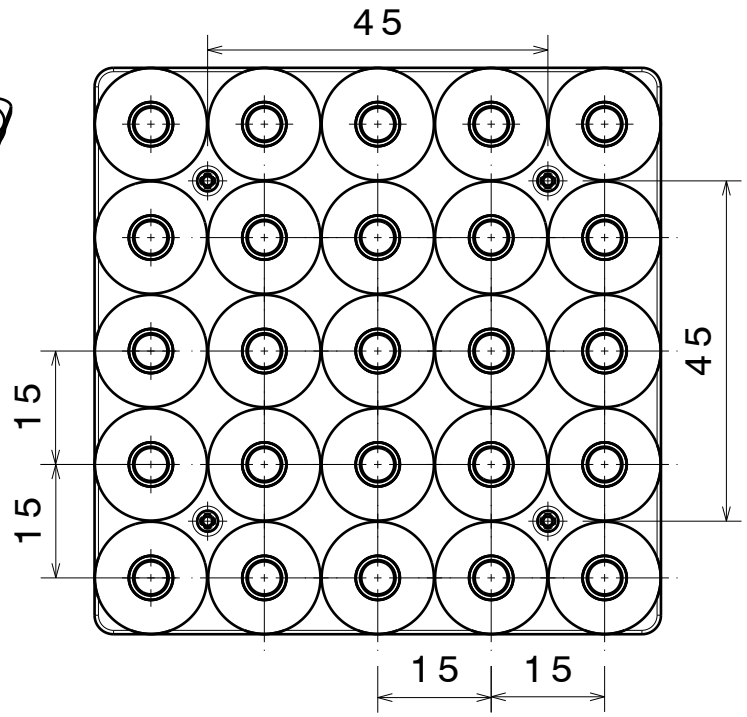
OPTICAL PROPERTIES

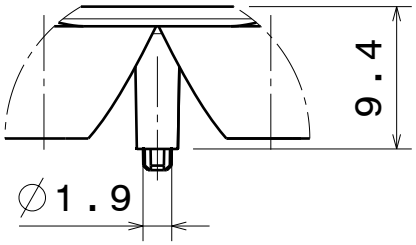
LED	Viewing Angle	Light Beam	Effi-ciency	cd/lm	Connector
XP-G	48 deg	Wide	92 %	1.300	-
XT-E	41 deg	Wide	90 %	1.680	-
XB-D	40 deg	Wide	90 %	1.740	-
XP-E2	41 deg	Wide	91 %	1.700	-
XP-G2	49 deg	Wide	91 %	1.300	-
XH-B/G	43 deg	Wide	91 %	1.500	-
LG 3030	34 deg	Wide	92 %	2.200	-
LUXEON Rebel ES	42 deg	Wide	91 %	1.620	-
LUXEON T	sim: 42	Wide	sim: 93 %	sim: 1.790	-
LUXEON TX	sim: 38	Wide	sim: 93 %	sim: 2.000	-
LUXEON C	sim: 30	Wide	sim: 86 %	sim: 2.500	-
LUXEON SunPlus 20 Line	sim: 29	Wide	sim: 87 %	sim: 2.500	-
LUXEON SunPlus 35 Line	sim: 26	Wide	sim: 93 %	sim: 3.000	-
LUXEON 3535L	sim: 28	Wide	sim: 93 %	sim: 2.800	-
NVSxx19A	40 deg	Wide	90 %	1.670	-
NF2x757A	33 deg	Wide	92 %	2.300	-
NVSxx19B/NVSxx19C	sim: 44	Wide	sim: 94 %	sim: 1.700	-
Oslon Square EC	43 deg	Wide	91 %	1.570	-
Duris S5 (Single chip)	31 deg	Wide	93 %	2.400	-
Duris P5	32 deg	Wide	90 %	2.200	-
Oslon Square Gen3	sim: 36	Wide	sim: 94 %	sim: 1.900	-
LM231 A/B	32 deg	Wide	92 %	2.300	-

Ledil Oy
Salorankatu 10
24240 SALO, Finland

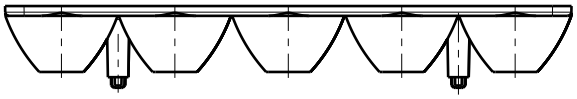
http://www.ledil.com
email: ledil@ledil.com
FAX: +358-2-733 8001

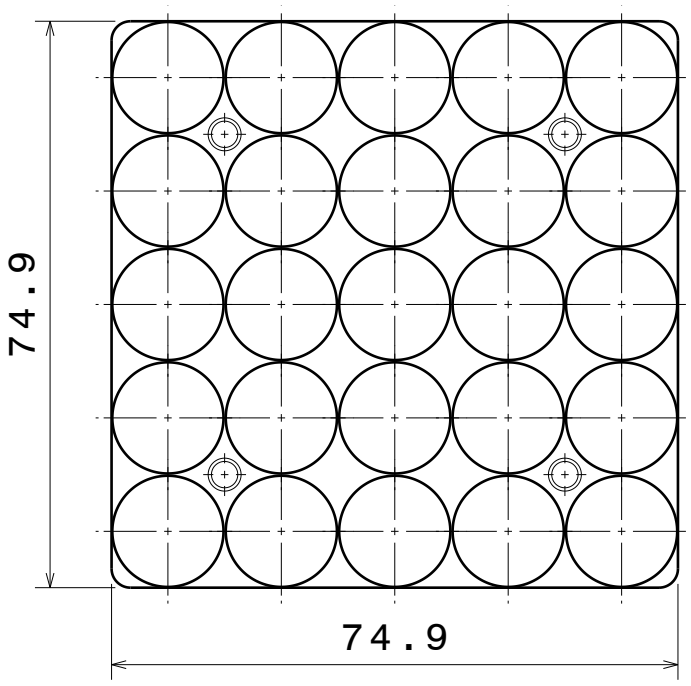






Detail A
Scale: 2:1





Material:
- 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

Ledil Oy
Salorankatu 10
FIN 24240 SALO
Finland

DRAWN BY	DATE
pl	20.02.2012
CHECKED BY	DATE
DESIGNED BY	DATE
PL	03.02.2012

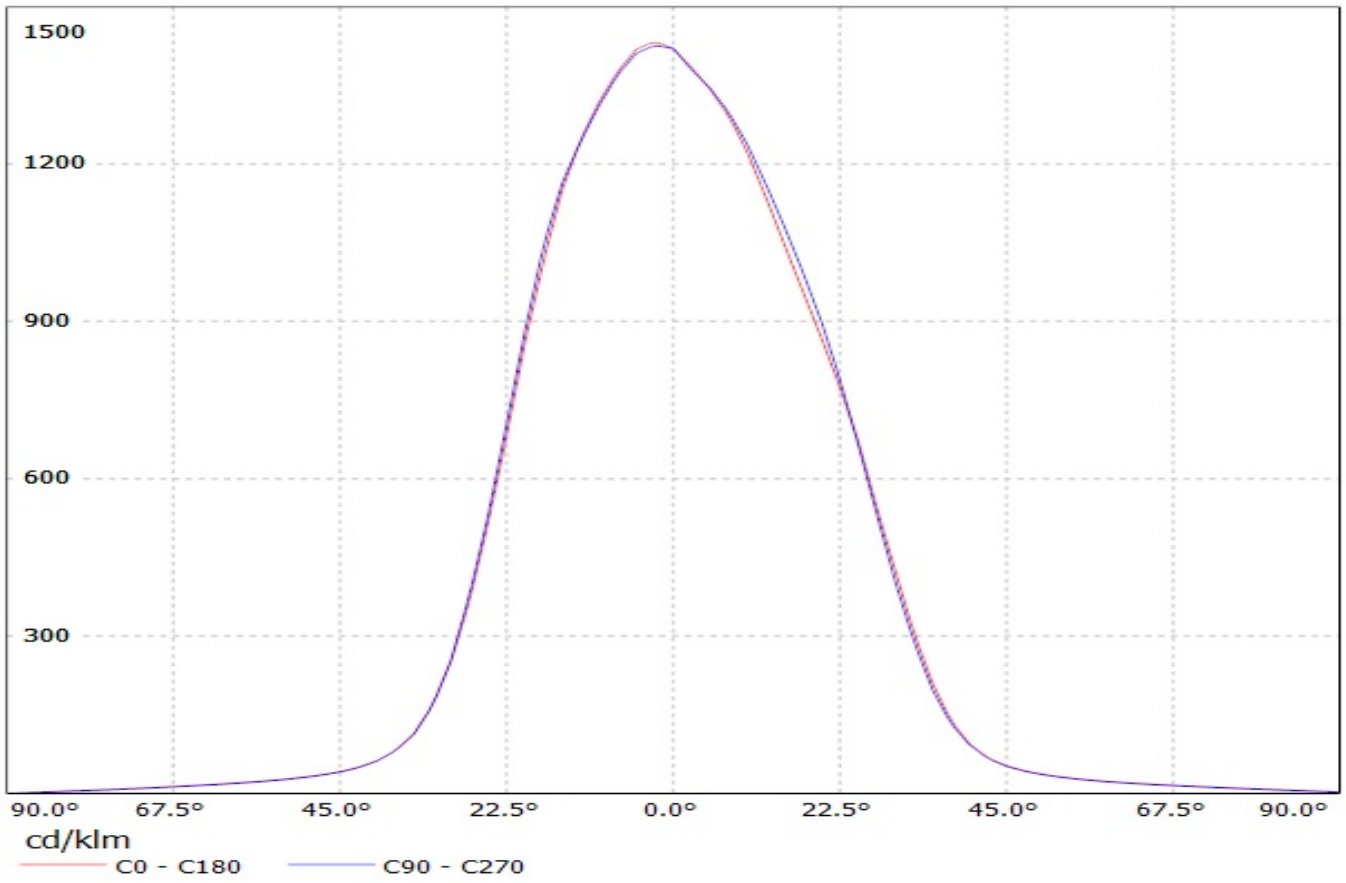
DRAWING TITLE

Datasheet Virpi series

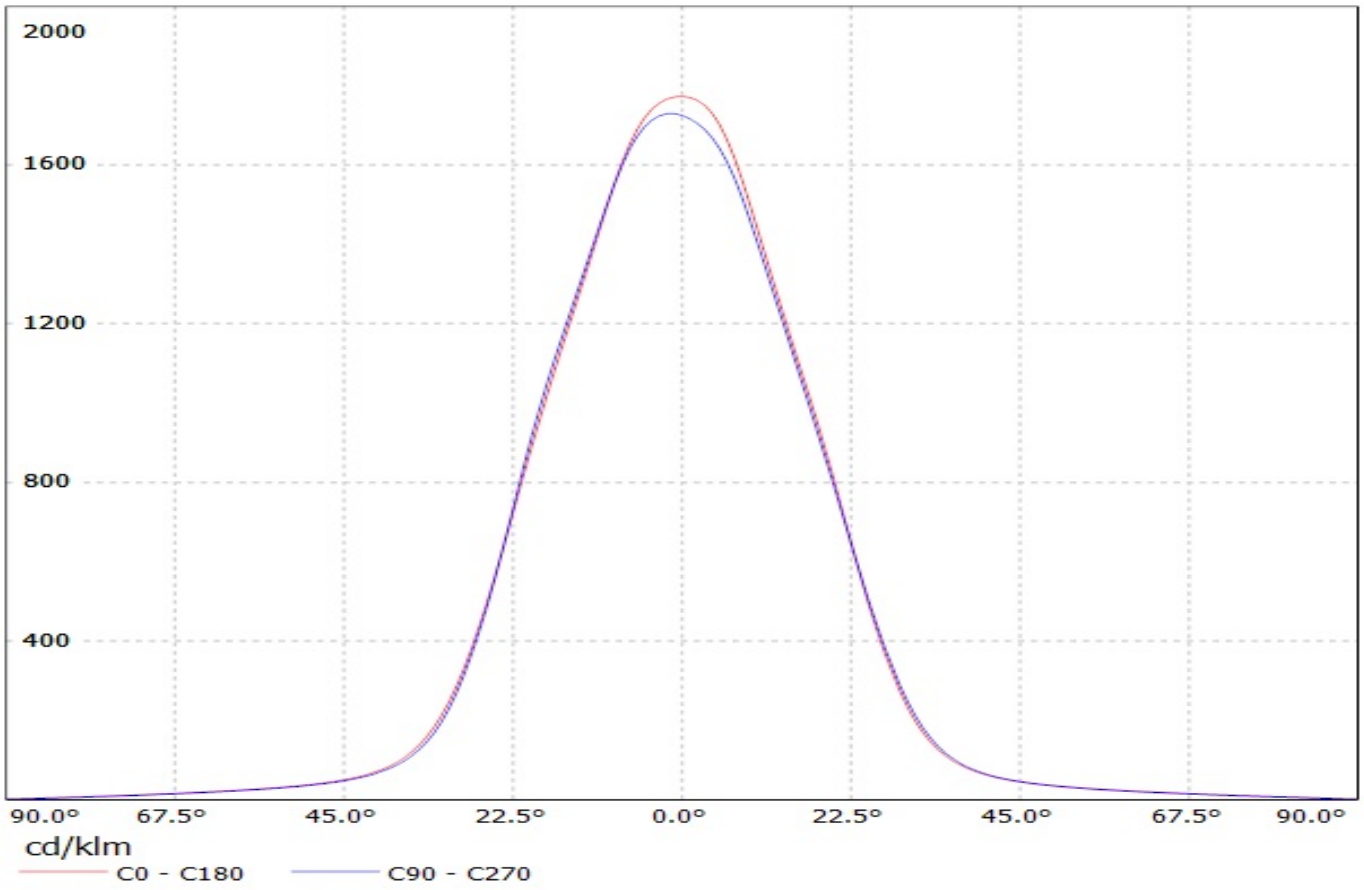
SIZE	DRAWING NUMBER	REV
A4	-	1

SCALE	WEIGHT(g)		SHEET
1:1			1/1

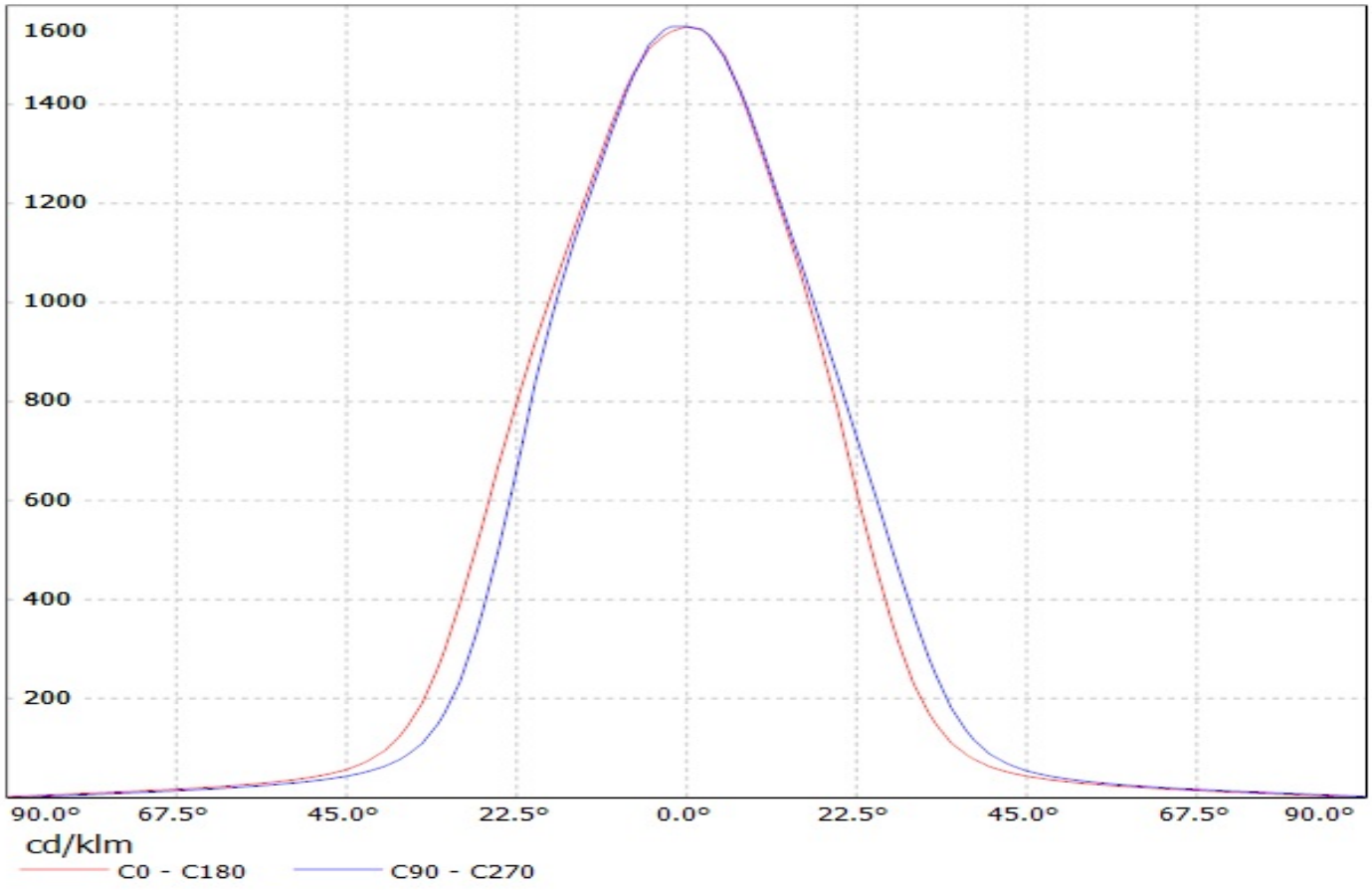
Luminaire: LEDiL Oy C12609_VIRPI-W_(XP-G) Eff: 92%
Lamps: 1 x XP-G_5x5 (1544.25lm@250mA)



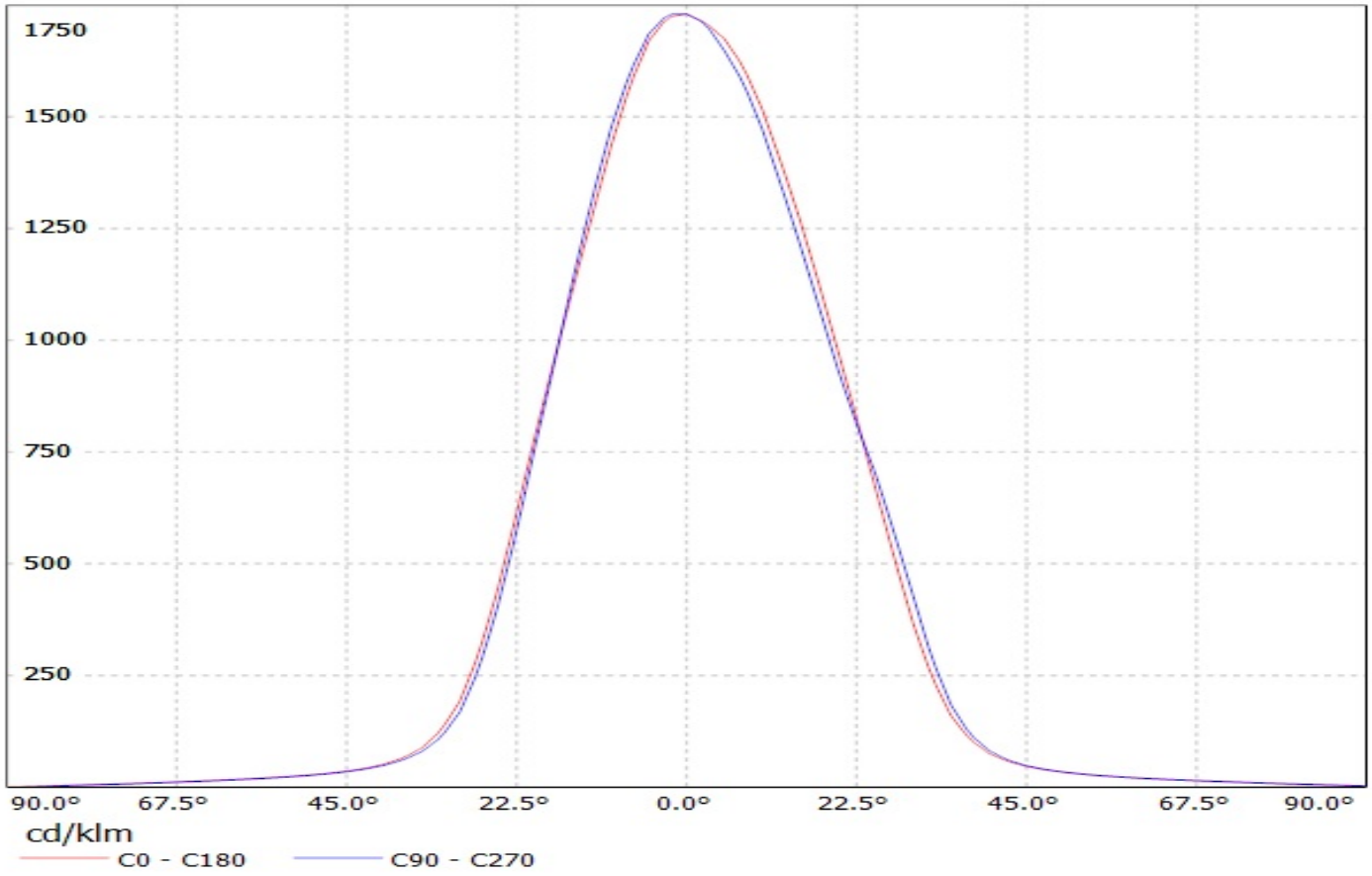
Luminaire: LEDiL Oy C12609_VIRPI-W_(XT-E) Eff: 90%
Lamps: 1 x XT-E_5x5 (2049.85lm@250mA)



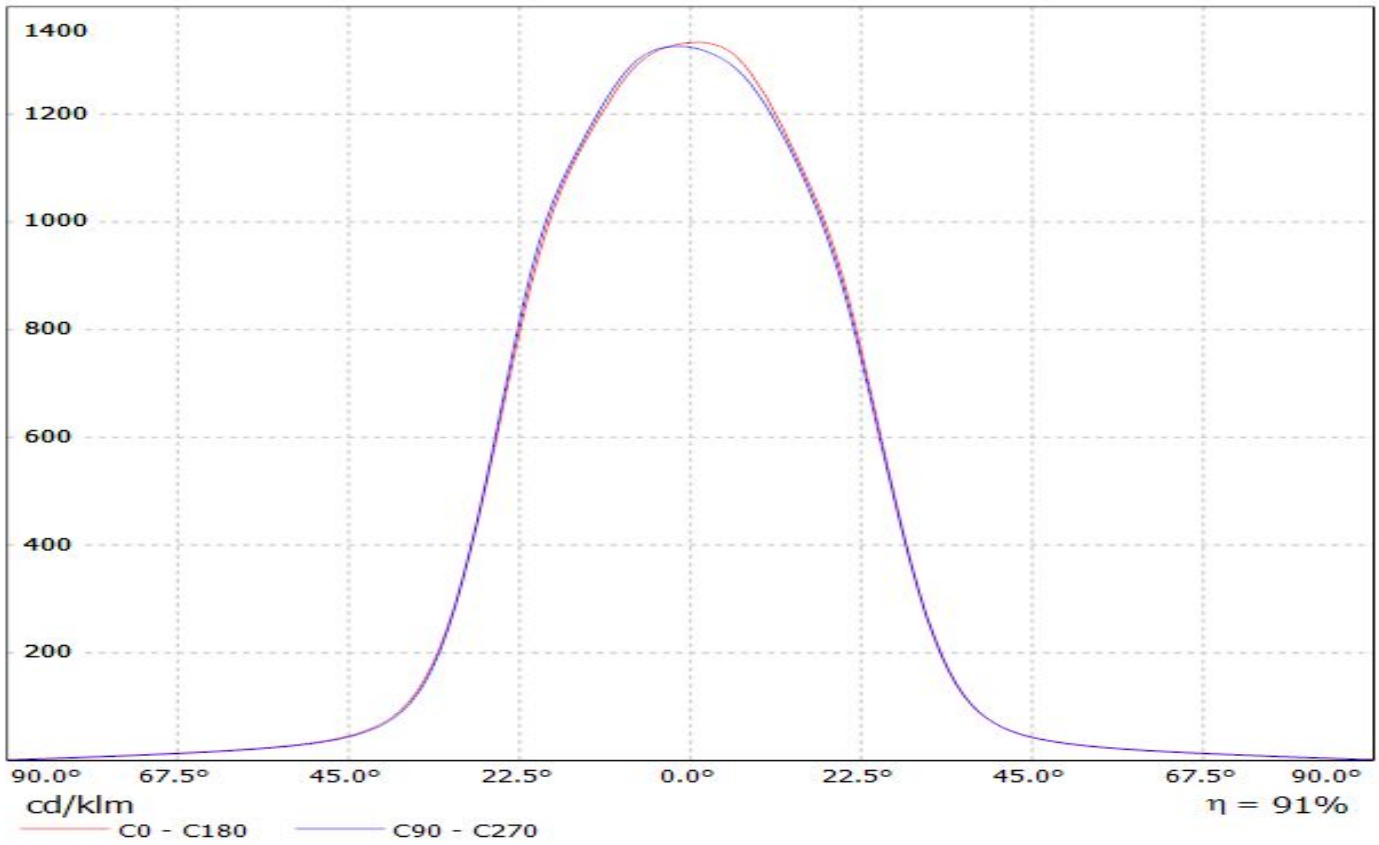
Luminaire: LEDiL Oy C12609_VIRPI-W_(XB-D) Eff: 90%
Lamps: 1 x XB-D_5x5 (1878.23lm@250mA)



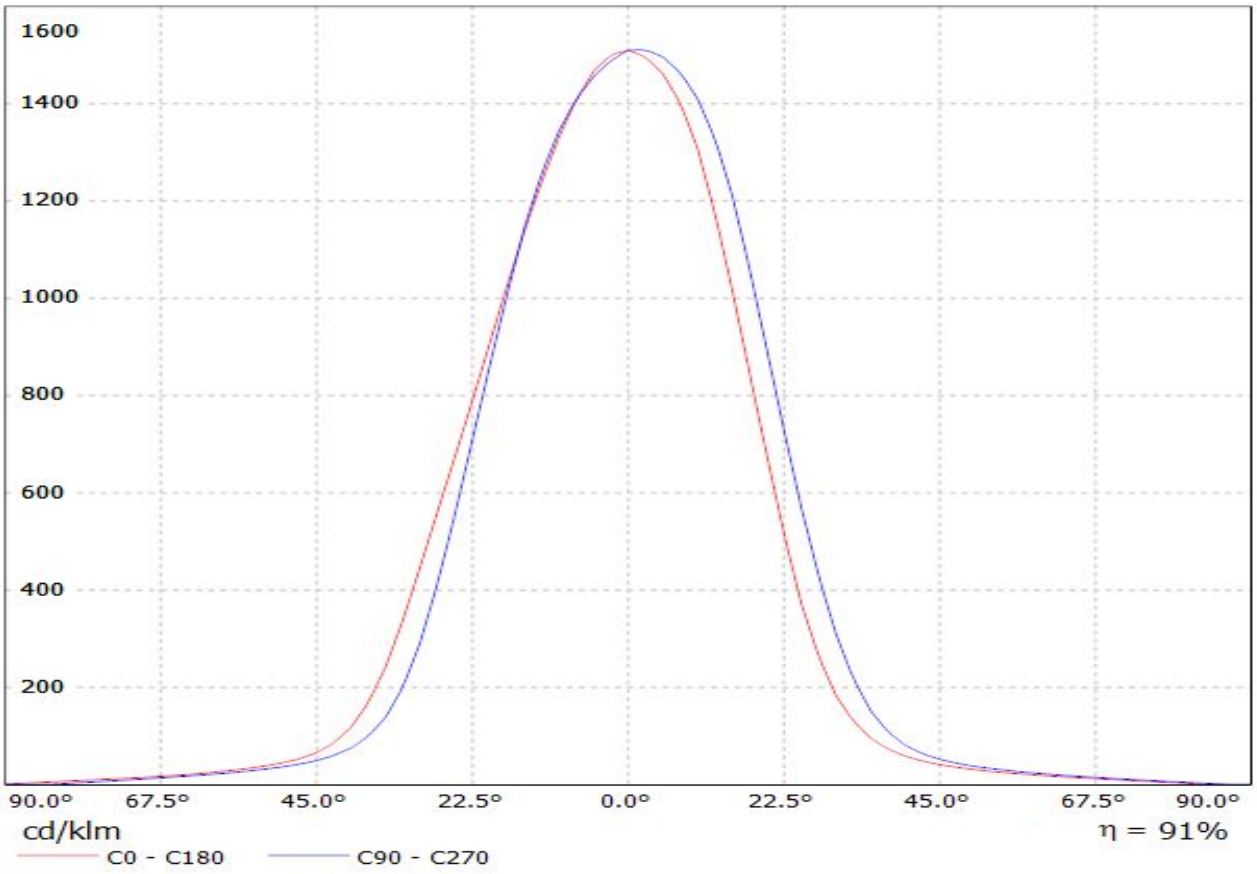
Luminaire: LEDiL Oy C12609_VIRPI-W_(XP-E2) Eff: 91%
Lamps: 1 x XP-E2_x25 (2039.65lm@250mA)



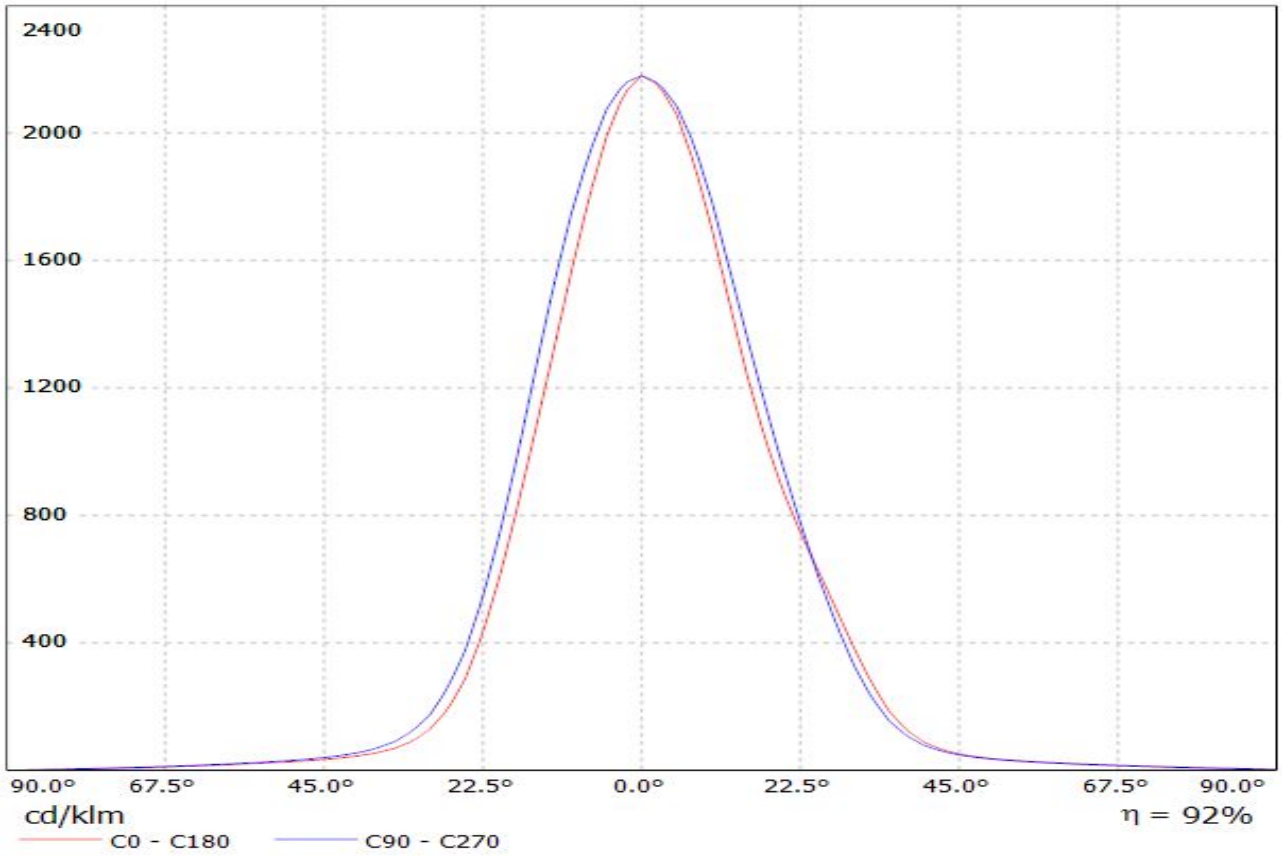
Luminaire: LEDiL Oy C12609_VIRPI-W_(XP-G2) Eff.91.3%
Lamps: 1 x XP-G2_x25 (2535.22lm@250mA)



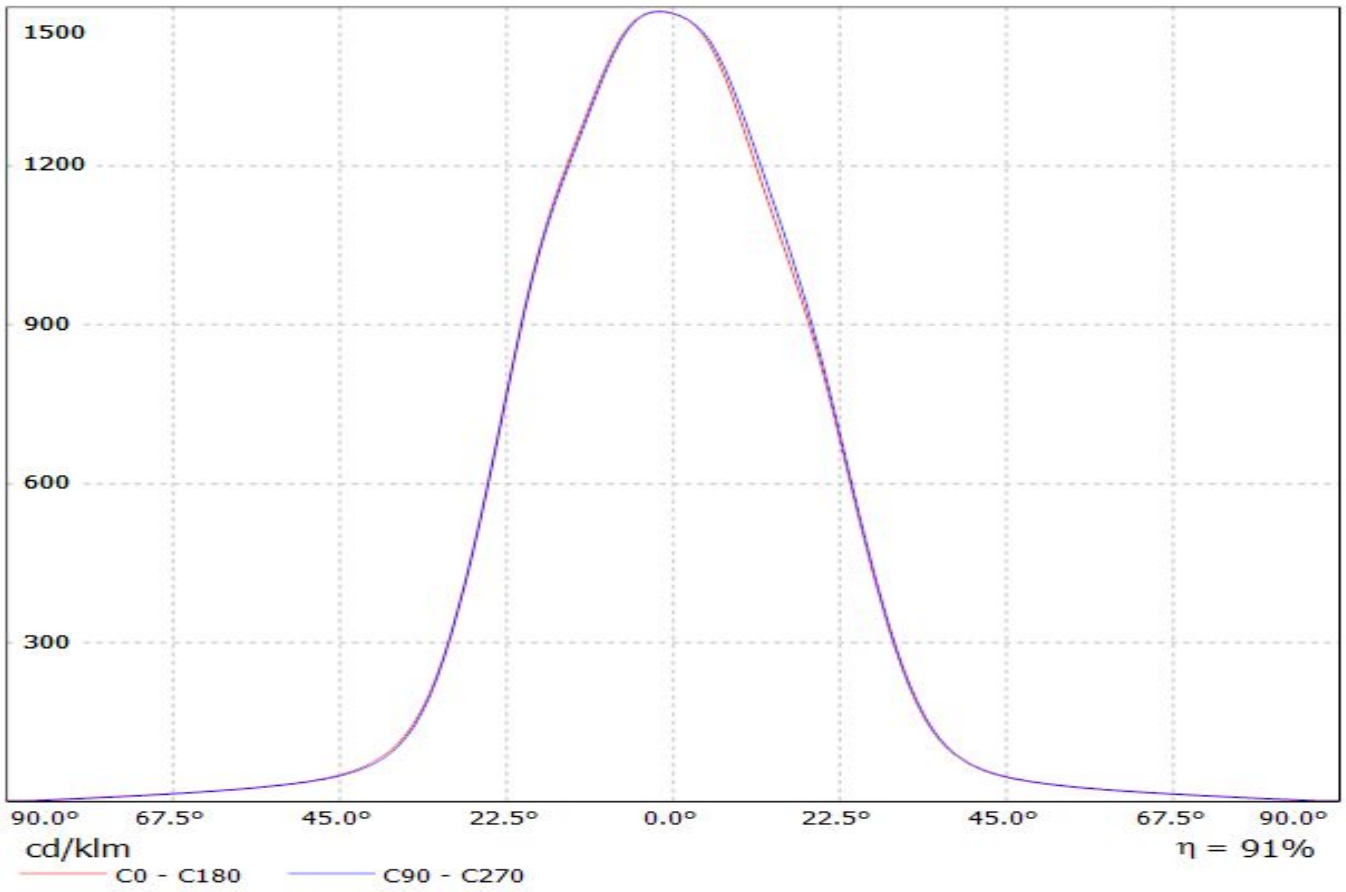
Luminaire: LEDiL Oy C12609_VIRPI-W_(XH-B)
Lamps: 1 x CREE_XH-B_136.467lm@65mA_P=0.911626_I=65.2mA



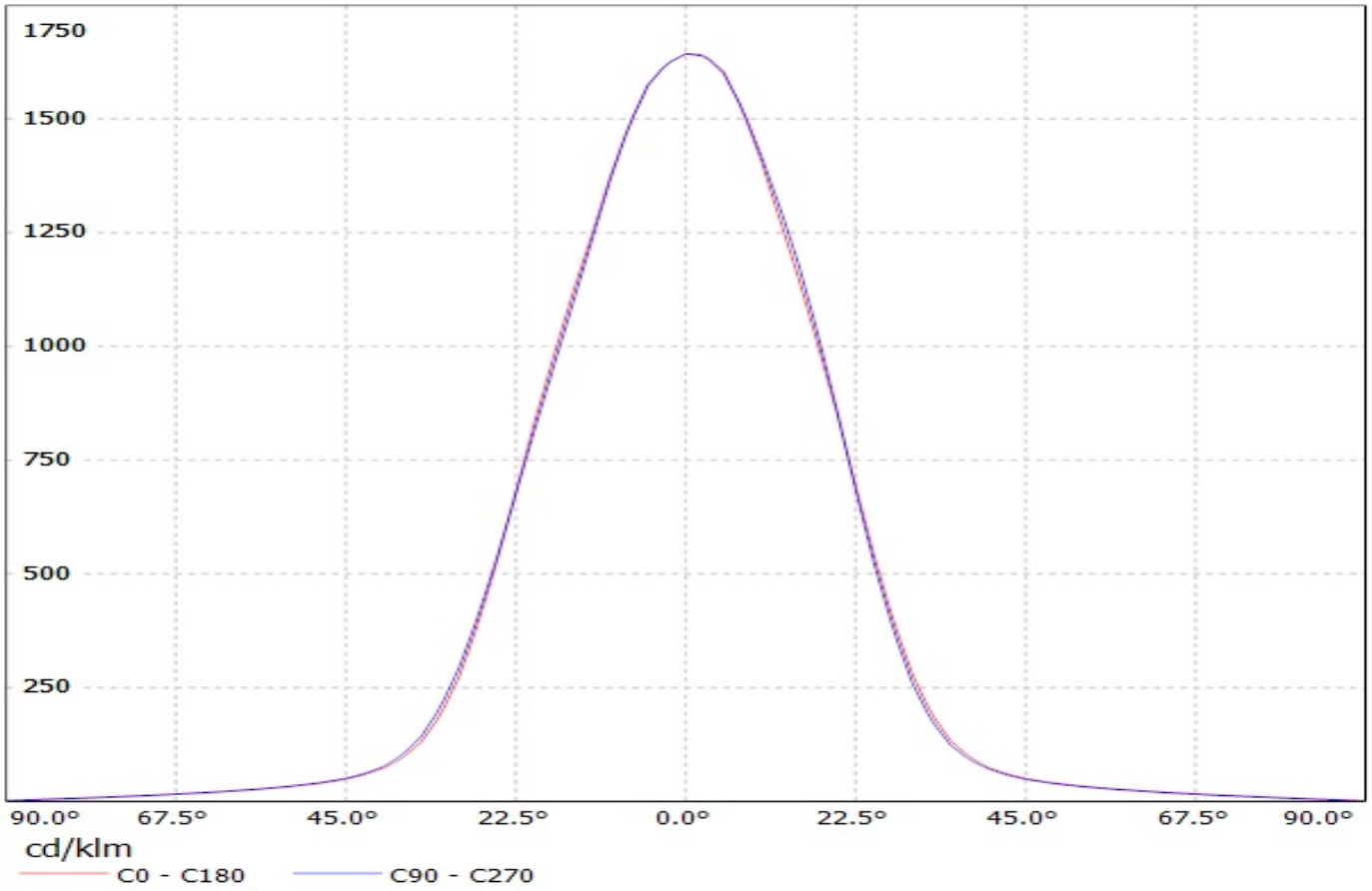
Luminaire: LEDiL Oy C12609_VIRPI-W_(LG_3030)
Lamps: 1 x LG_3030_3000K_524.574lm@150mA_P=4.1244_I=150mA



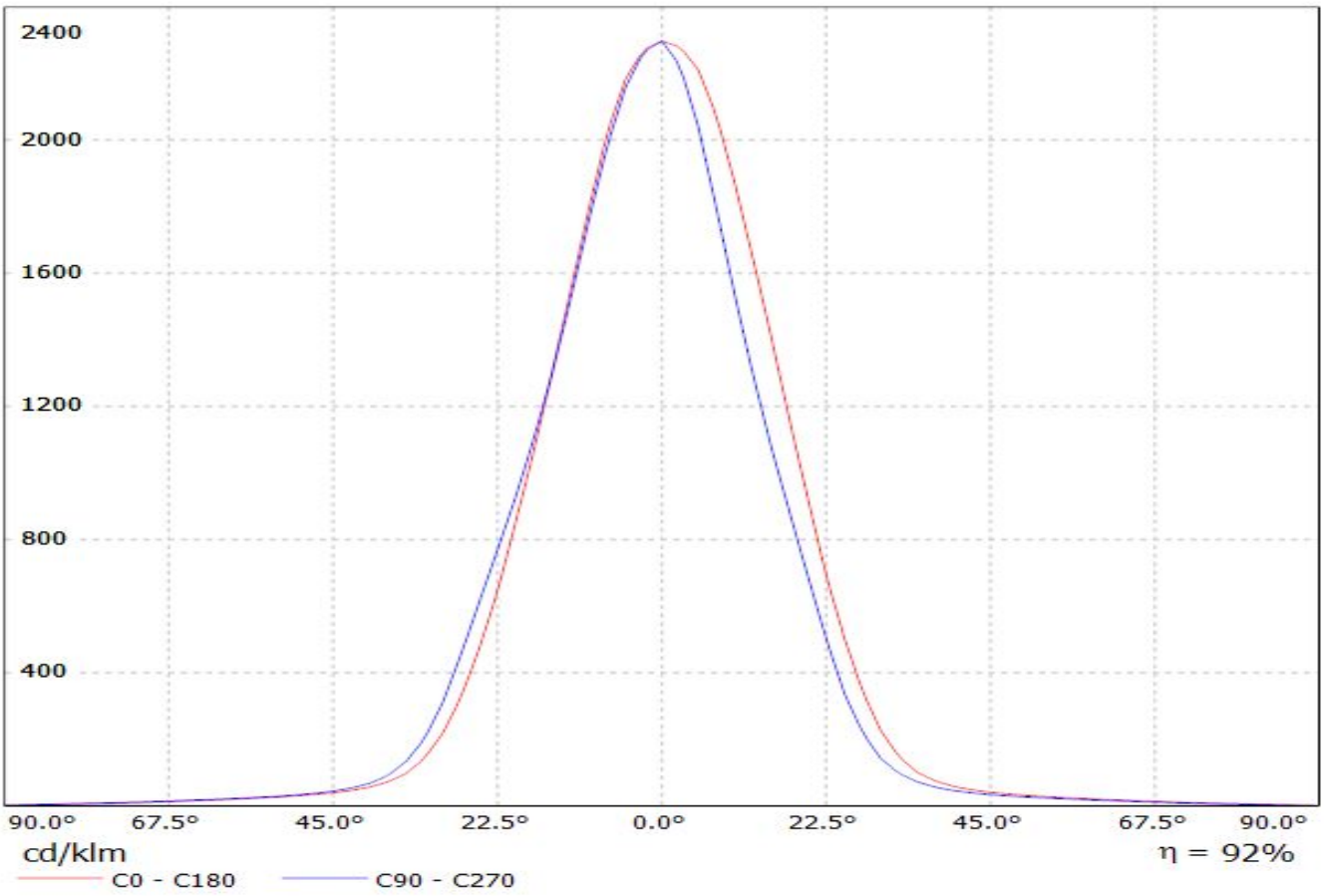
Luminaire: LEDiL Oy C12609_VIRPI-W_(REBEL-ES) Eff.91.0%
Lamps: 1 x REBEL-ES_VIRPI_5x5 (1790.01lm@250mA)



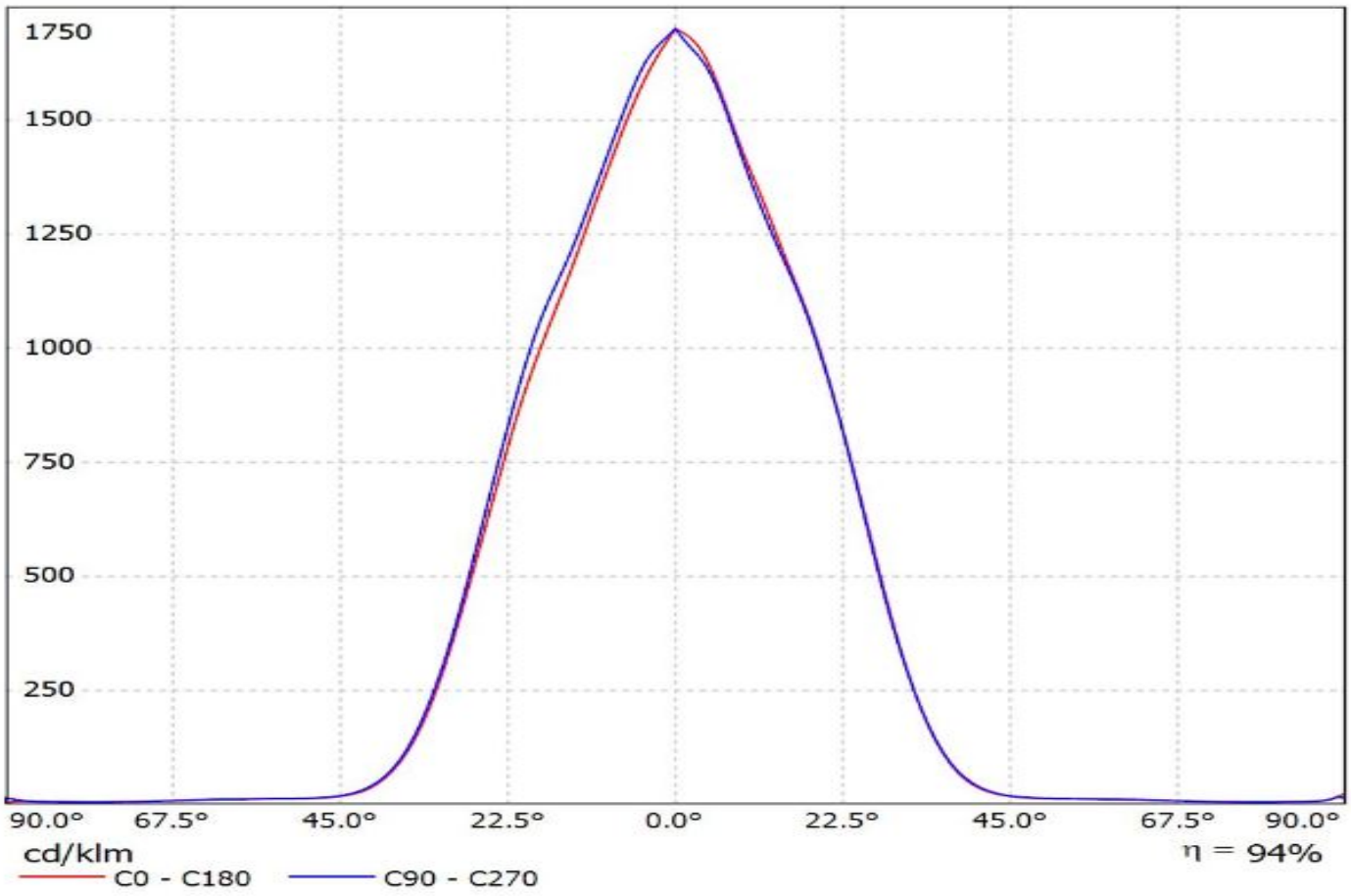
Luminaire: LEDiL Oy C12609_VIRPI-W_(NVS19) Eff: 90%
Lamps: 1 x NVS19_5x5 (1974lm@250mA)



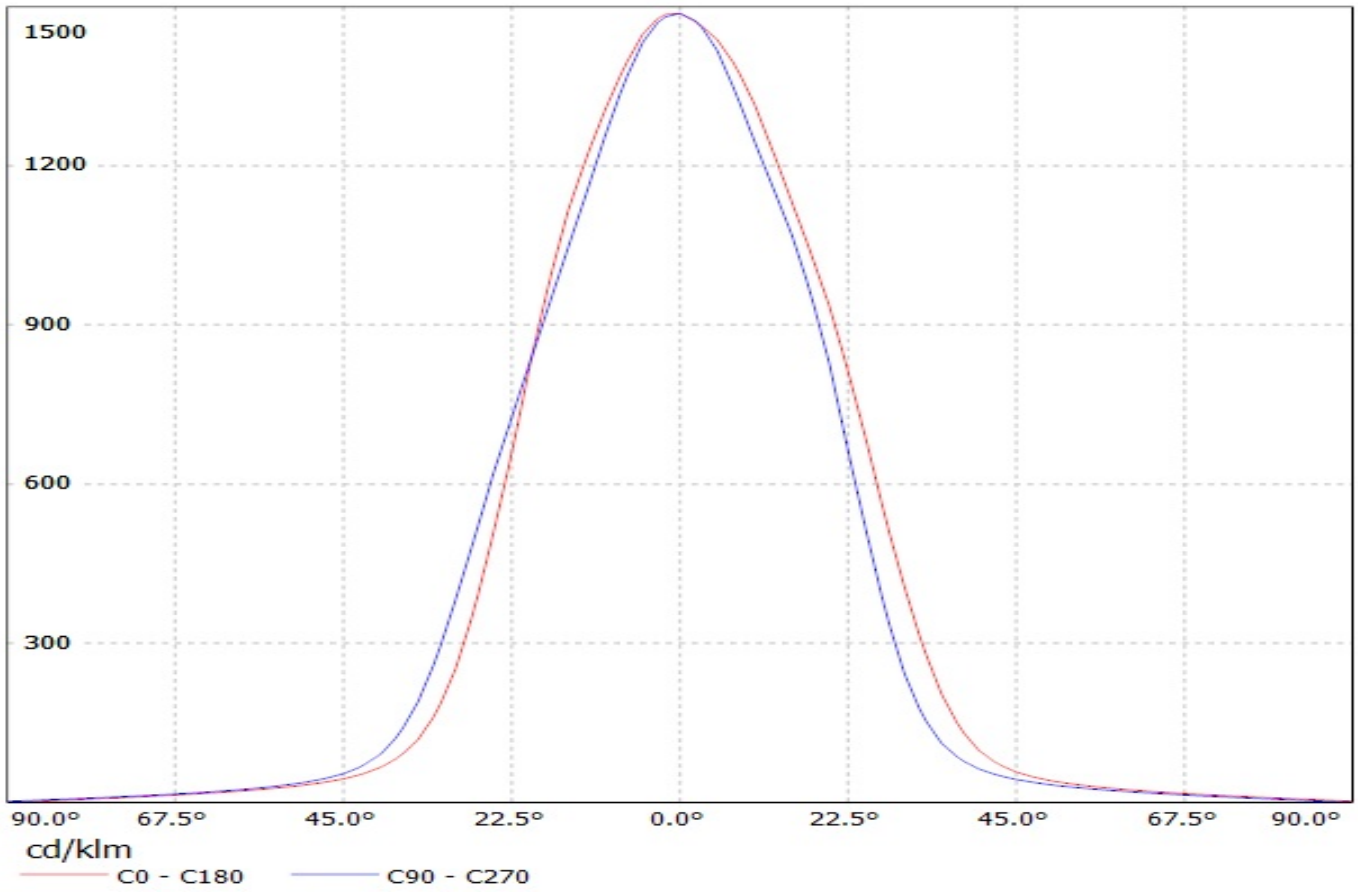
Luminaire: LEDiL Oy C12609_VIRPI-W_(NF2x757A)
Lamps: 1 x Nichia_NF2x757A_(NF2W757ARTV1)_1037.67lm@250mA P=6.97966W I=249.8mA



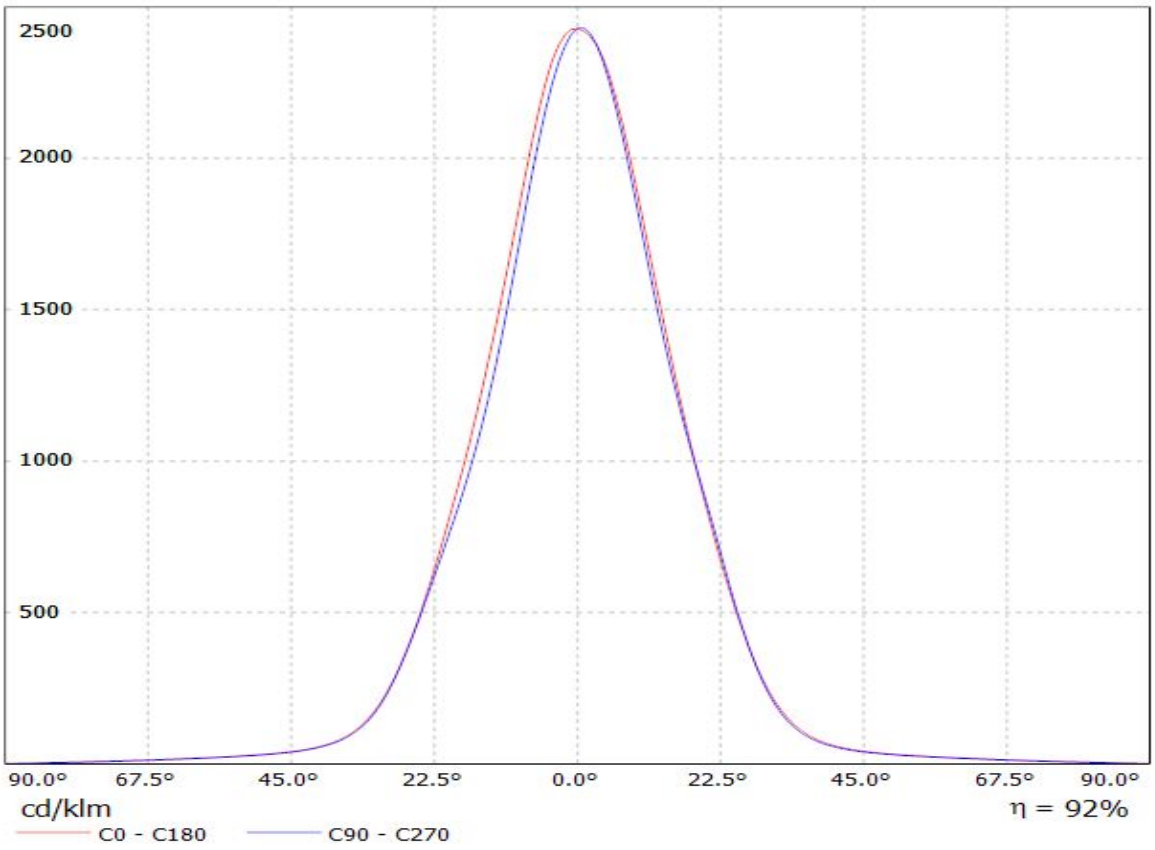
Luminaire: Ledil Oy C12609_VIRPI-W_NICHIA_NVSW219C_SIMULATED
Lamps: 1 x NICHIA NVSW219C



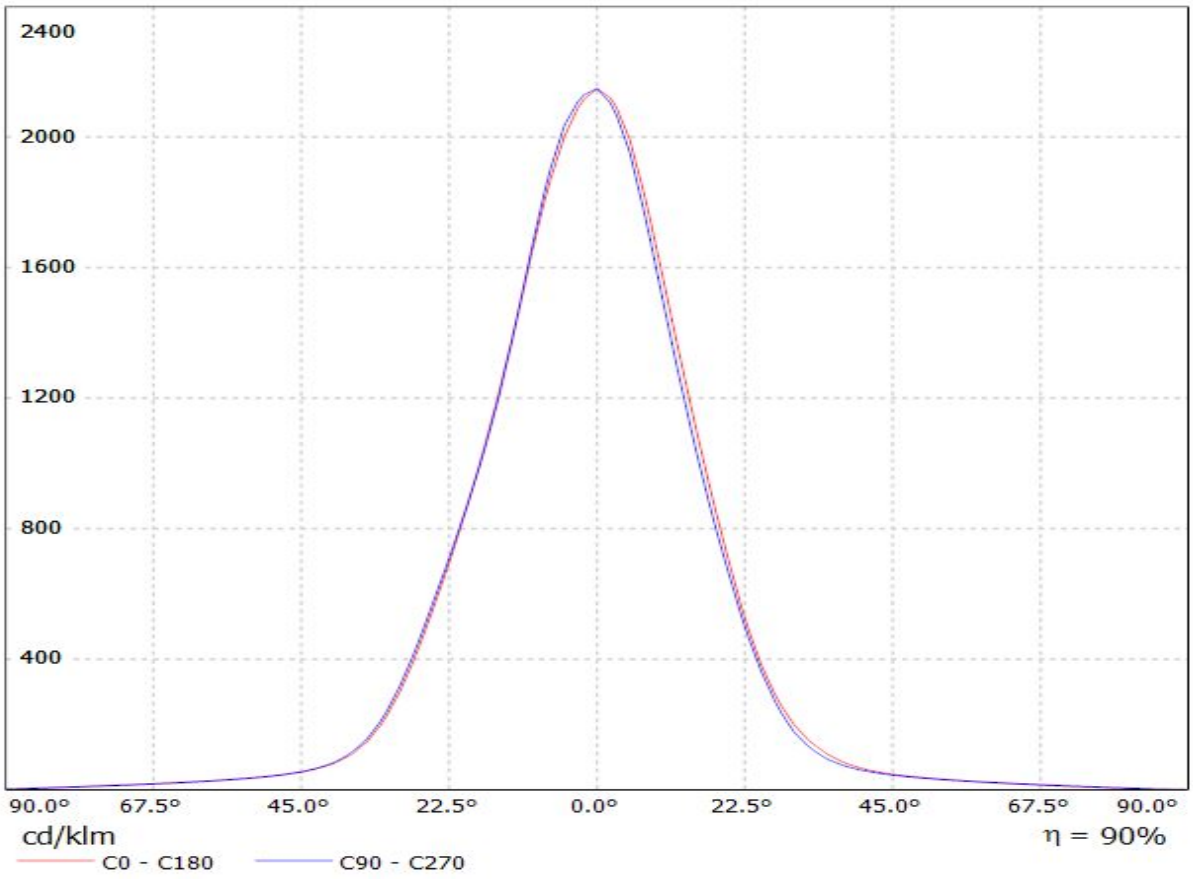
Luminaire: LEDiL Oy C12609_VIRPI-W_(SQ-EC) Eff: 91%
Lamps: 1 x SQ-EC_5x5 (2043.47lm@250mA)



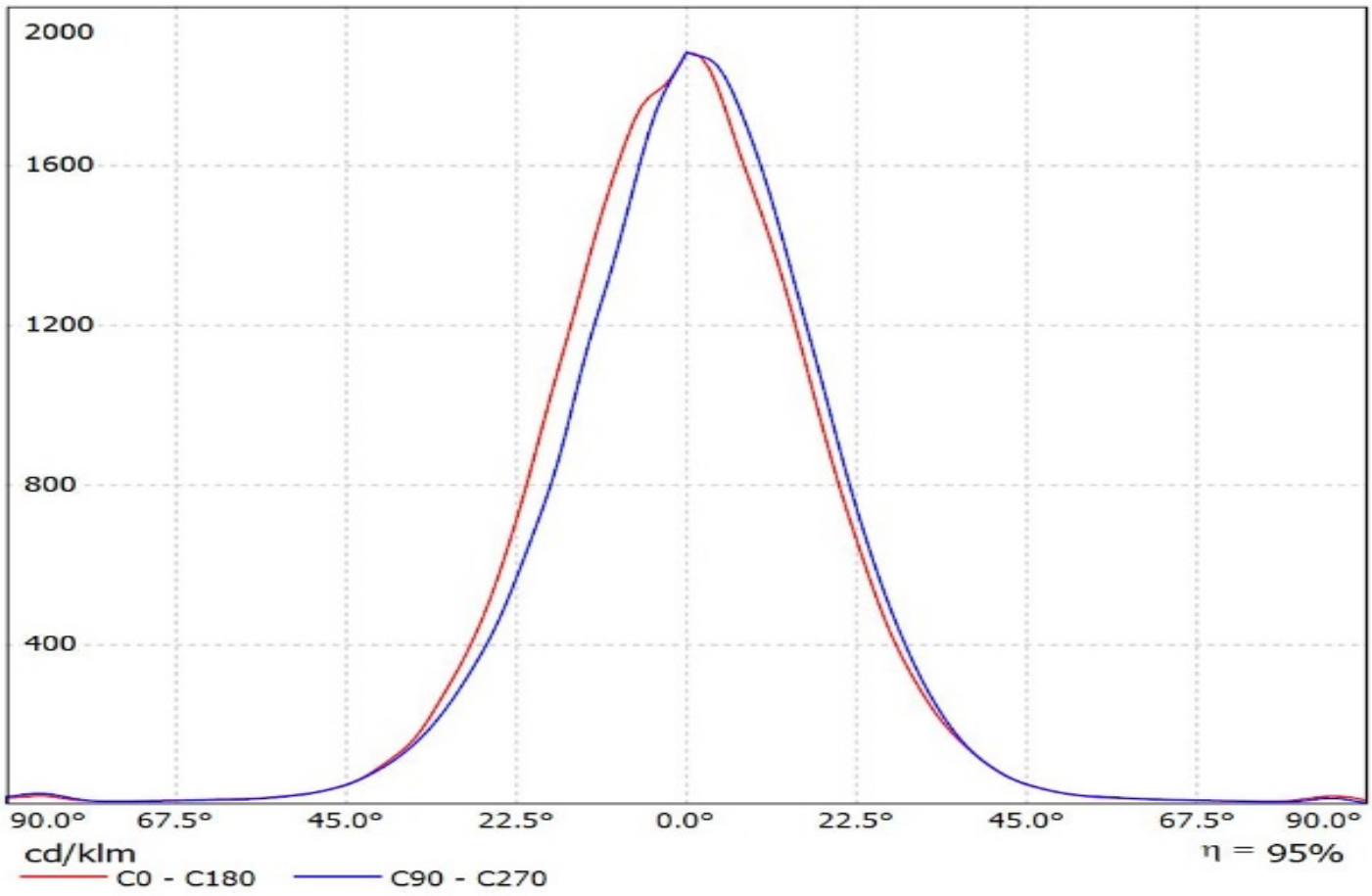
Luminaire: LEDiL Oy C12609_VIRPI-W_(DURIS-S5)
Lamps: 1 x OSRAM_DURIS-S5_5x5_(GW_PSLLS1.EC-HPHR-5L7N-1)_160.476lm@80mA_P=1.10163W_I=80.2mA



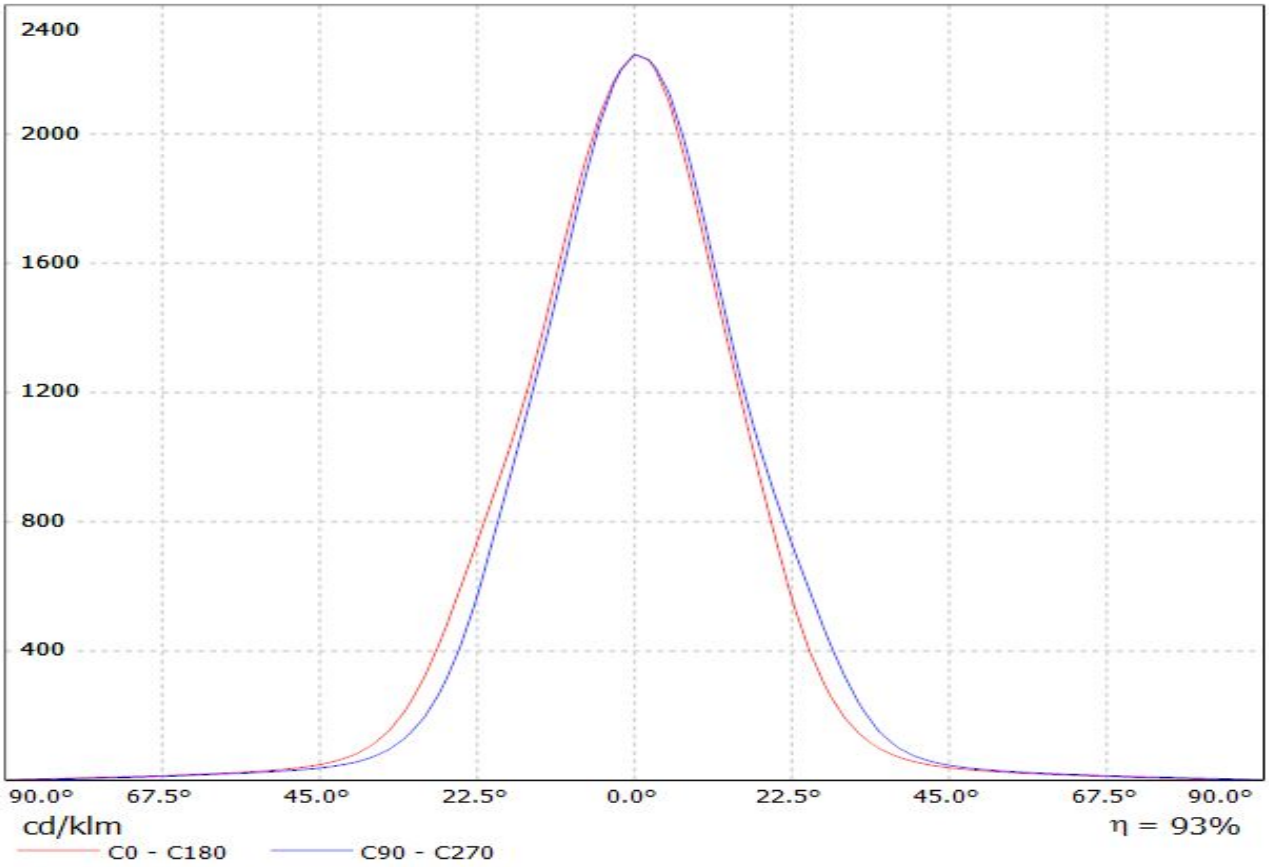
Luminaire: LEDiL Oy CC12609_VIRPI-W_(DURIS_P5)
Lamps: 1 x OSRAM_DURIS_P5_5x5_(GW_DASPA1.EC-HPHR-5R8T-1)_163.795lm@100mA_P=1.37895W_I=100.2mA



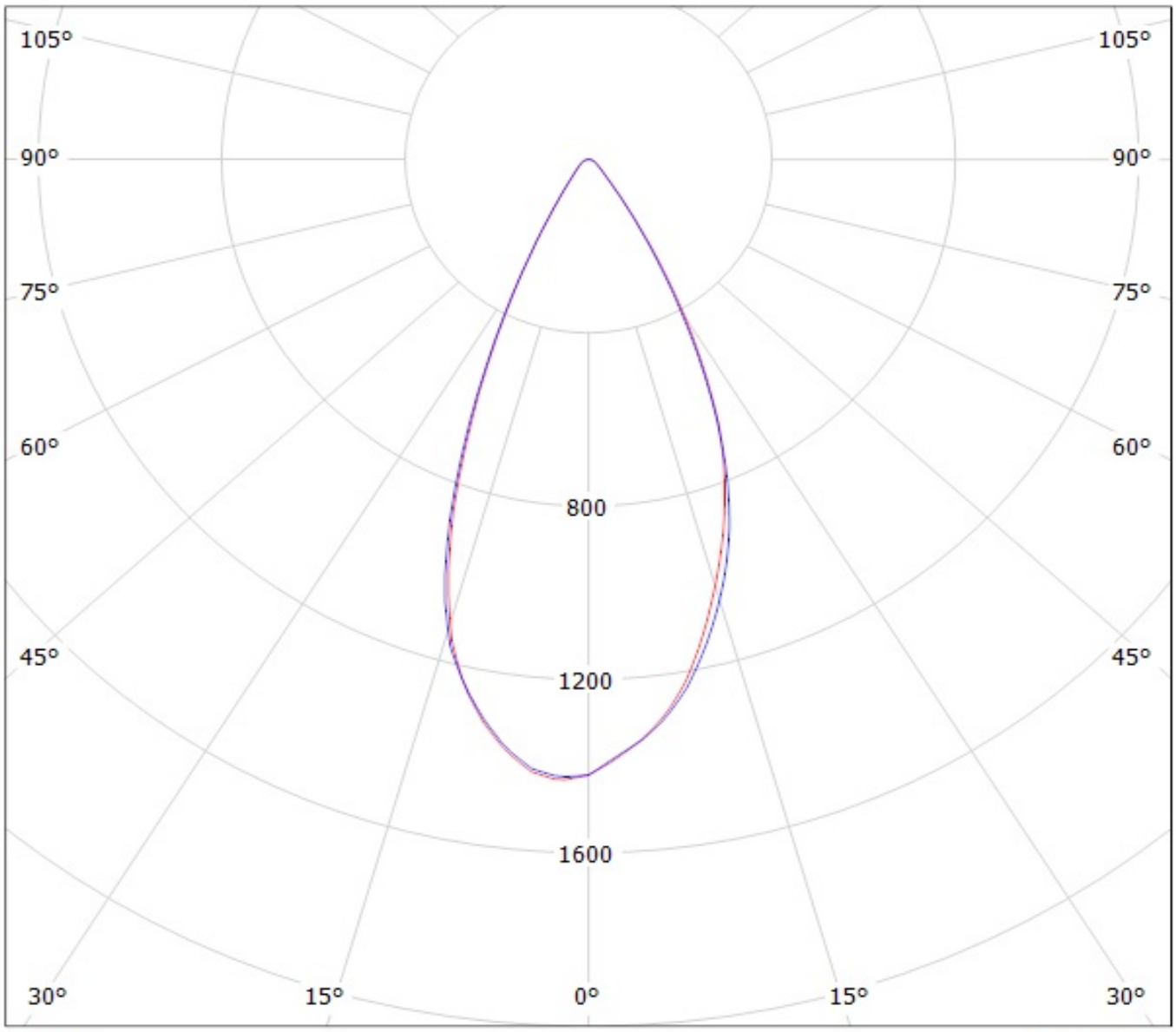
Luminaire: Ledil Oy C12609_VIRPI-W_(Osram_Oslon_Square_Gen3)_SIMULATED
Lamps: 1 x Osram Oslon Square Gen 3 (GW CSSRM2.PM)



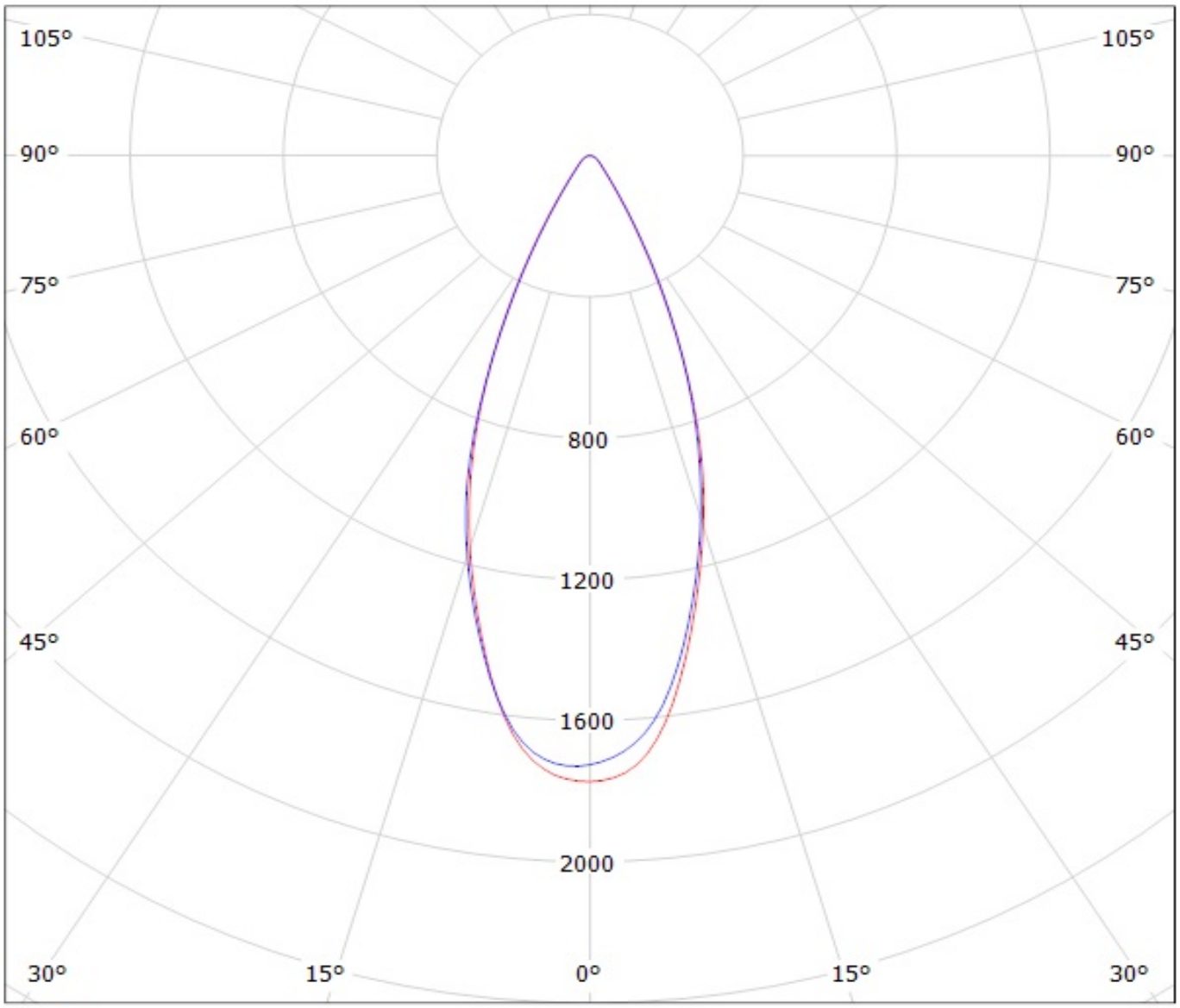
Luminaire: LEDiL Oy C12609_VIRPI-W_(LM231B)
Lamps: 1 x SAMSUNG_LM231B_5X5_121.687lm@65mA_P=0.886133W_I=65,2mA



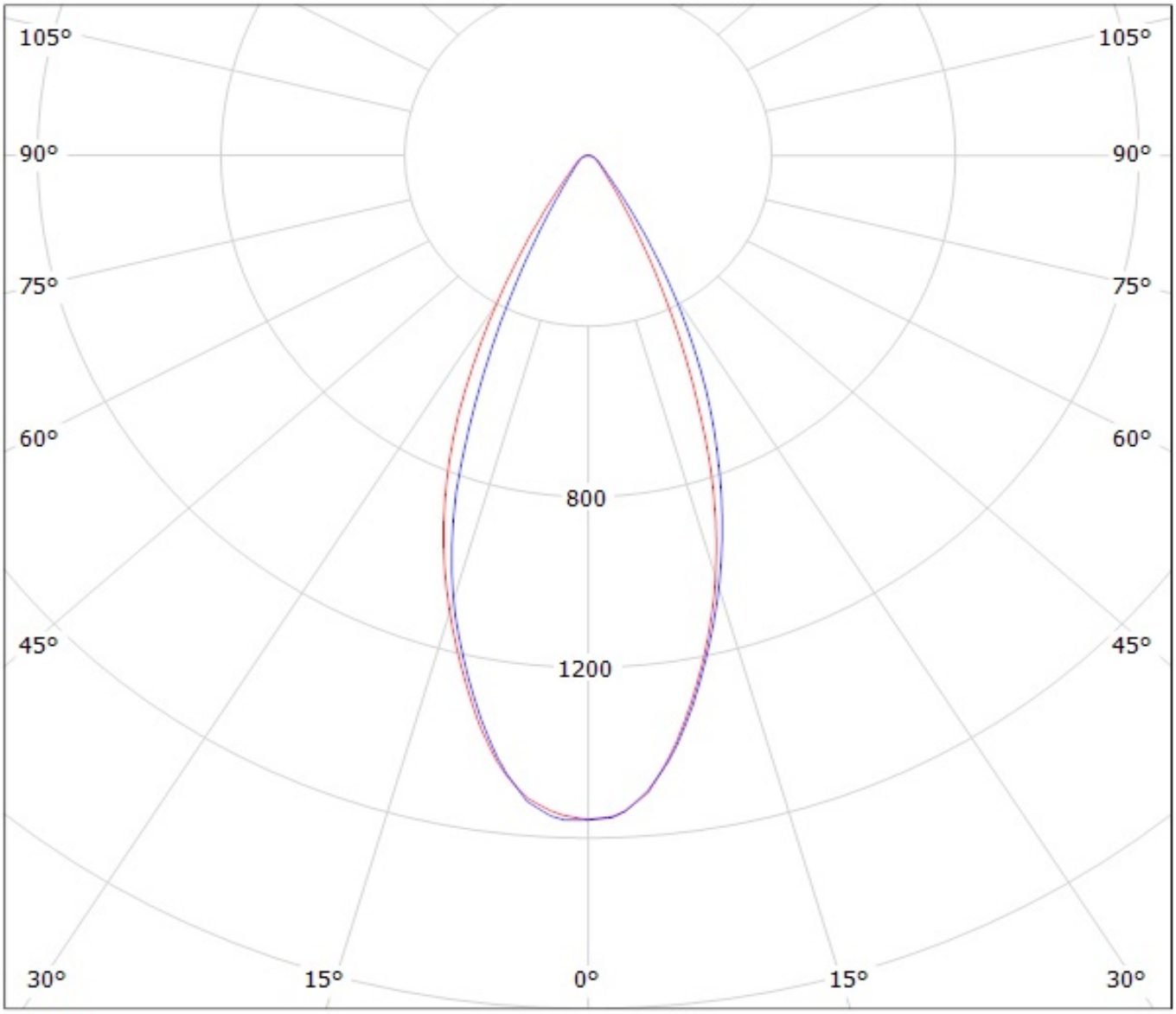
Luminaire: LEDiL Oy C12609_VIRPI-W_(XP-G) Eff: 92%
Lamps: 1 x XP-G_5x5 (1544.25lm@250mA)



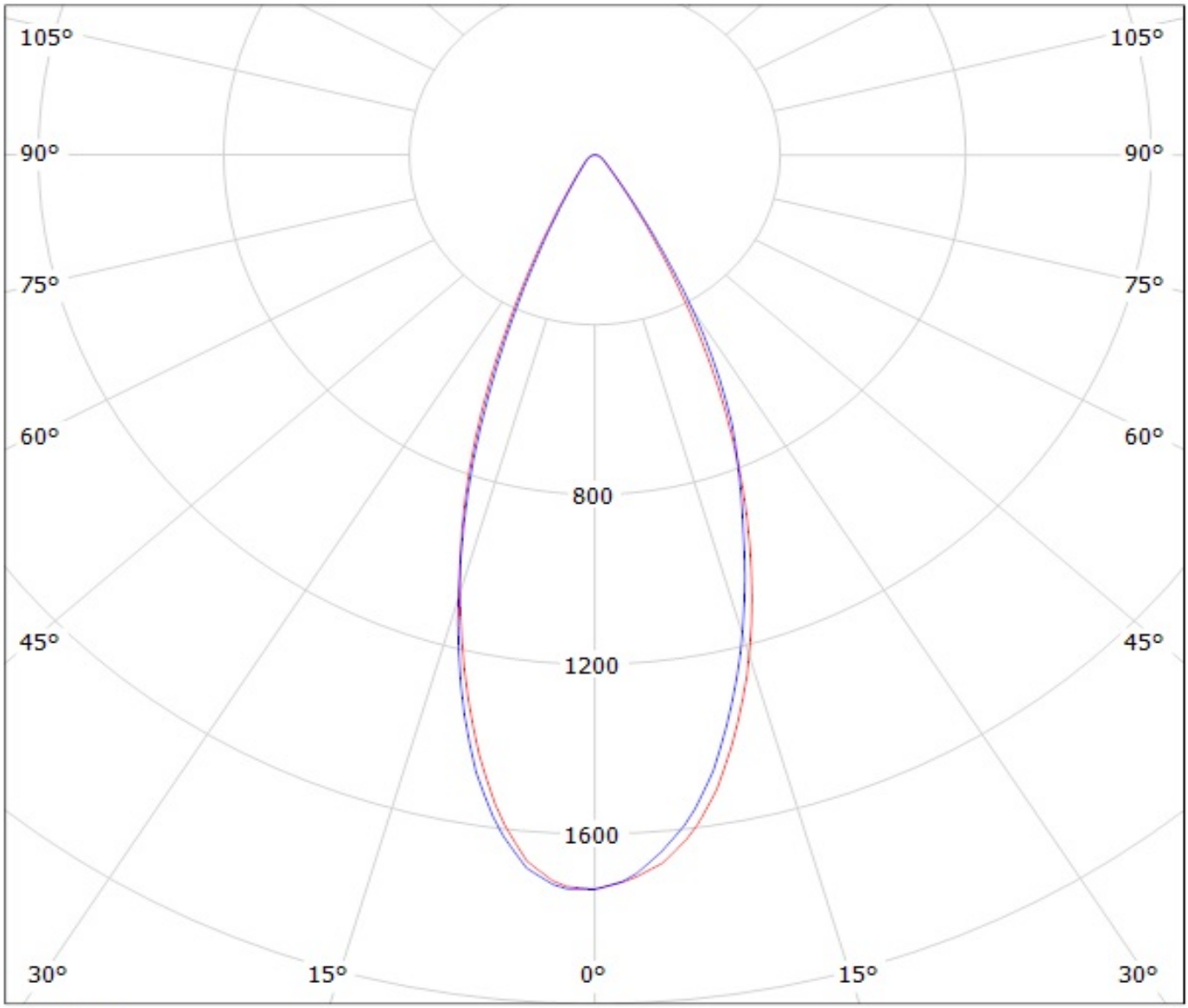
Luminaire: LEDiL Oy C12609_VIRPI-W_(XT-E) Eff: 90%
Lamps: 1 x XT-E_5x5 (2049.85lm@250mA)



Luminaire: LEDiL Oy C12609_VIRPI-W_(XB-D) Eff: 90%
Lamps: 1 x XB-D_5x5 (1878.23lm@250mA)

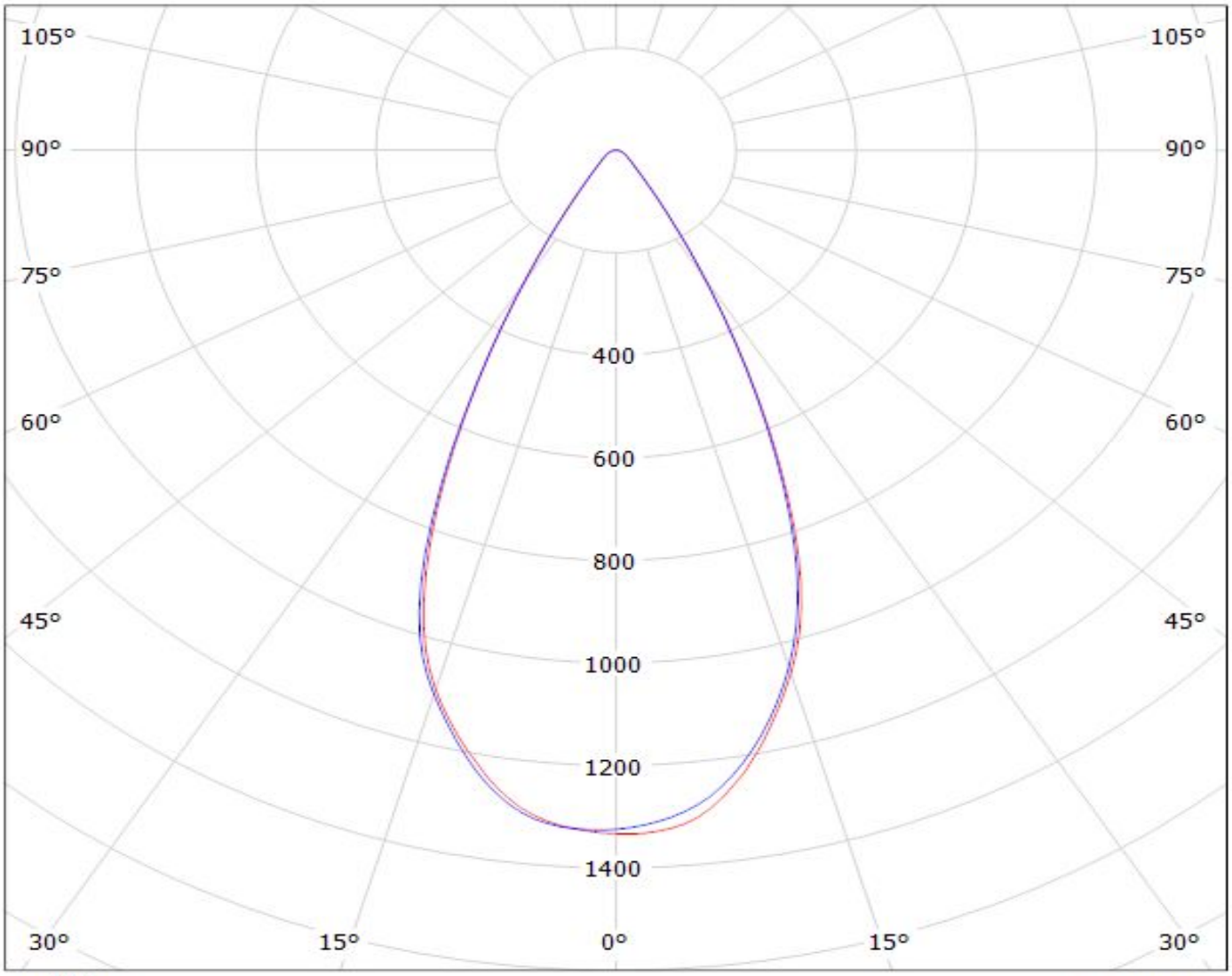


Luminaire: LEDiL Oy C12609_VIRPI-W_(XP-E2) Eff: 91%
Lamps: 1 x XP-E2_x25 (2039.65lm@250mA)



LEDiL Oy C12609_VIRPI-W_(XP-G2) Eff.91.3% / LDC (Polar)

Luminaire: LEDiL Oy C12609_VIRPI-W_(XP-G2) Eff.91.3%
Lamps: 1 x XP-G2_x25 (2535.22lm@250mA)

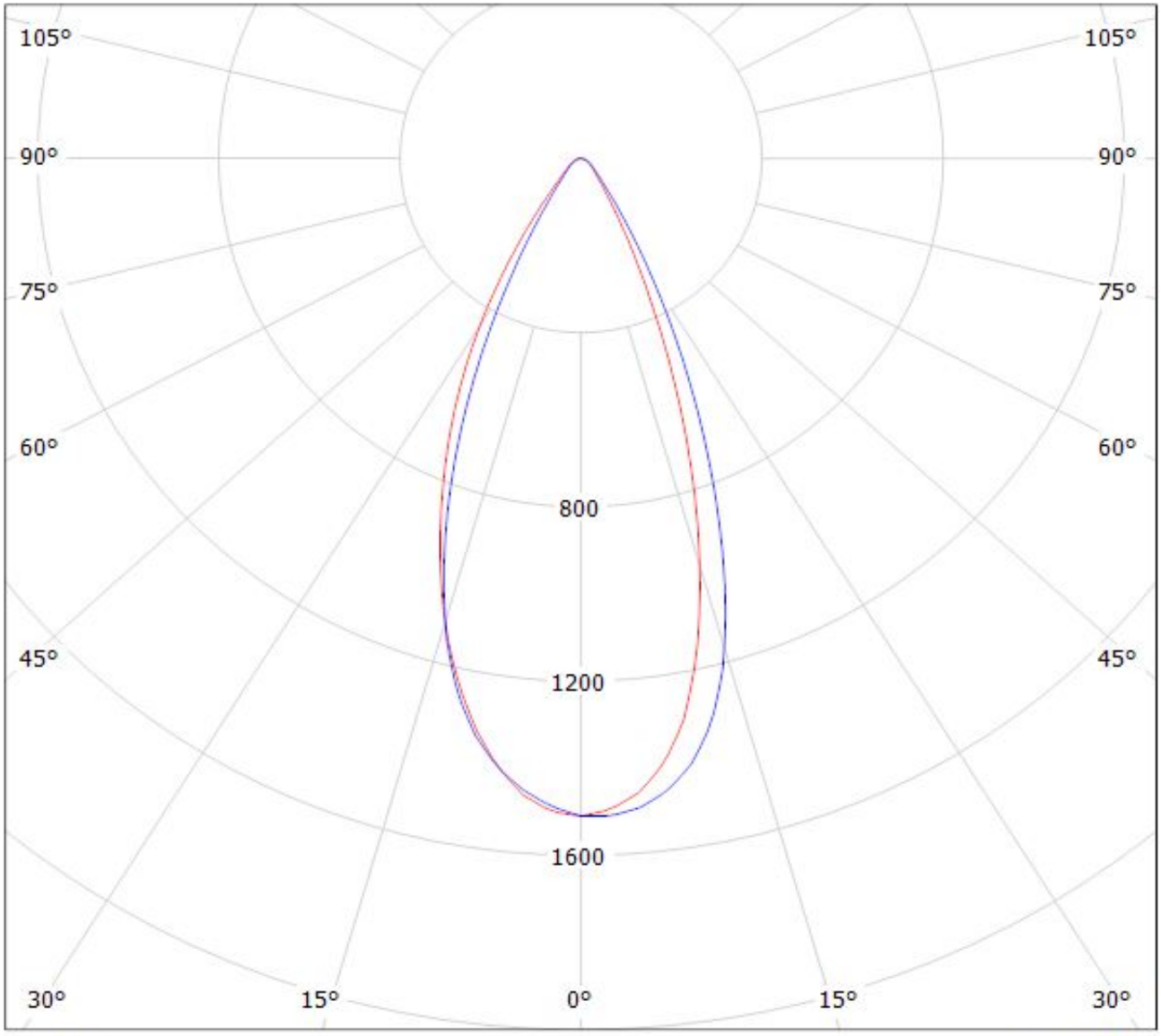


cd/klm

η = 91%

C0 - C180 C90 - C270

Luminaire: LEDiL Oy C12609_VIRPI-W_(XH-B)
Lamps: 1 x CREE_XH-B_136.467lm@65mA_P=0.911626_I=65.2mA

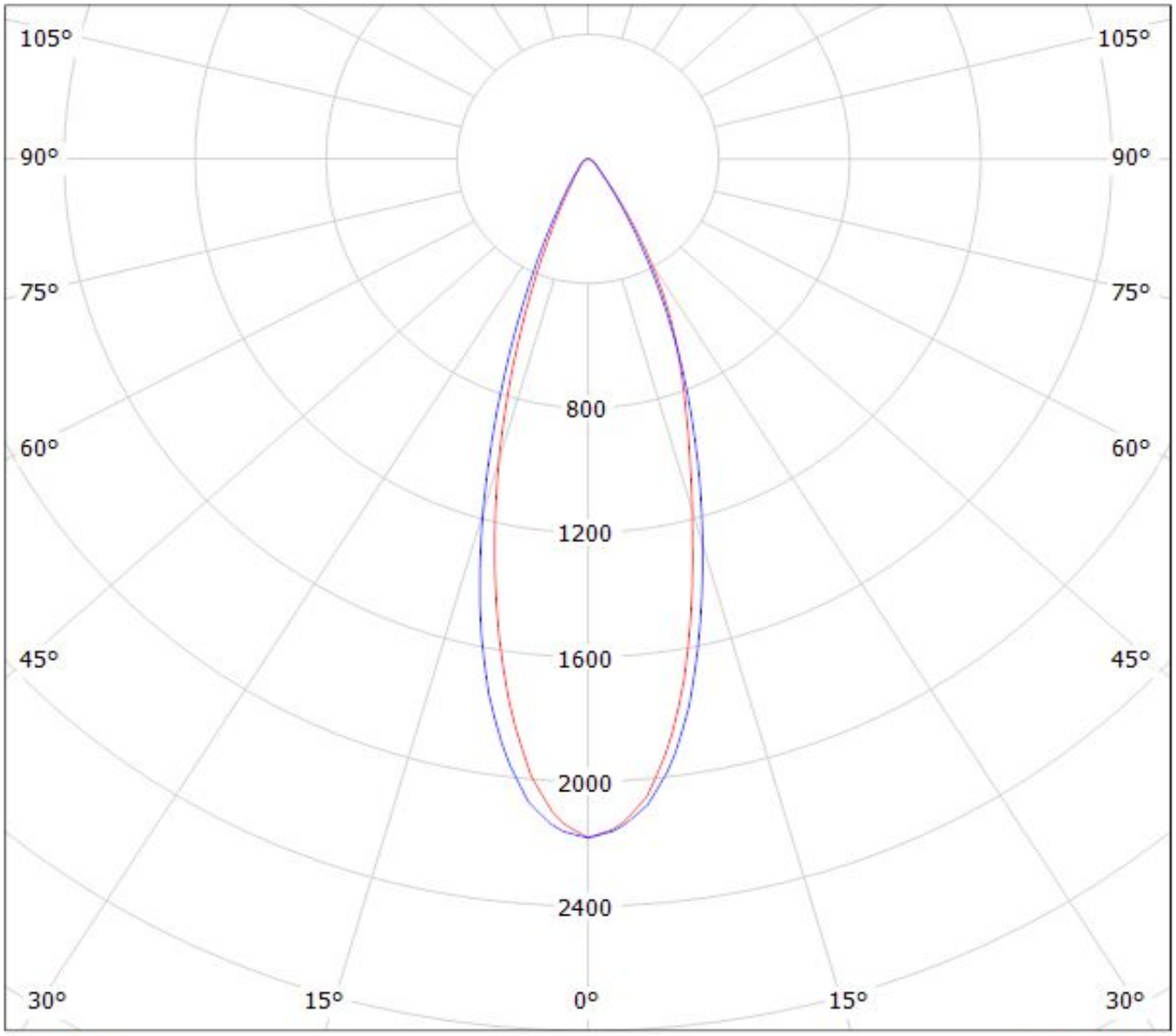


cd/klm

η = 91%

C0 - C180 C90 - C270

Luminaire: LEDiL Oy C12609_VIRPI-W_(LG_3030)
Lamps: 1 x LG_3030_3000K_524.574lm@150mA_P=4.1244_I=150mA

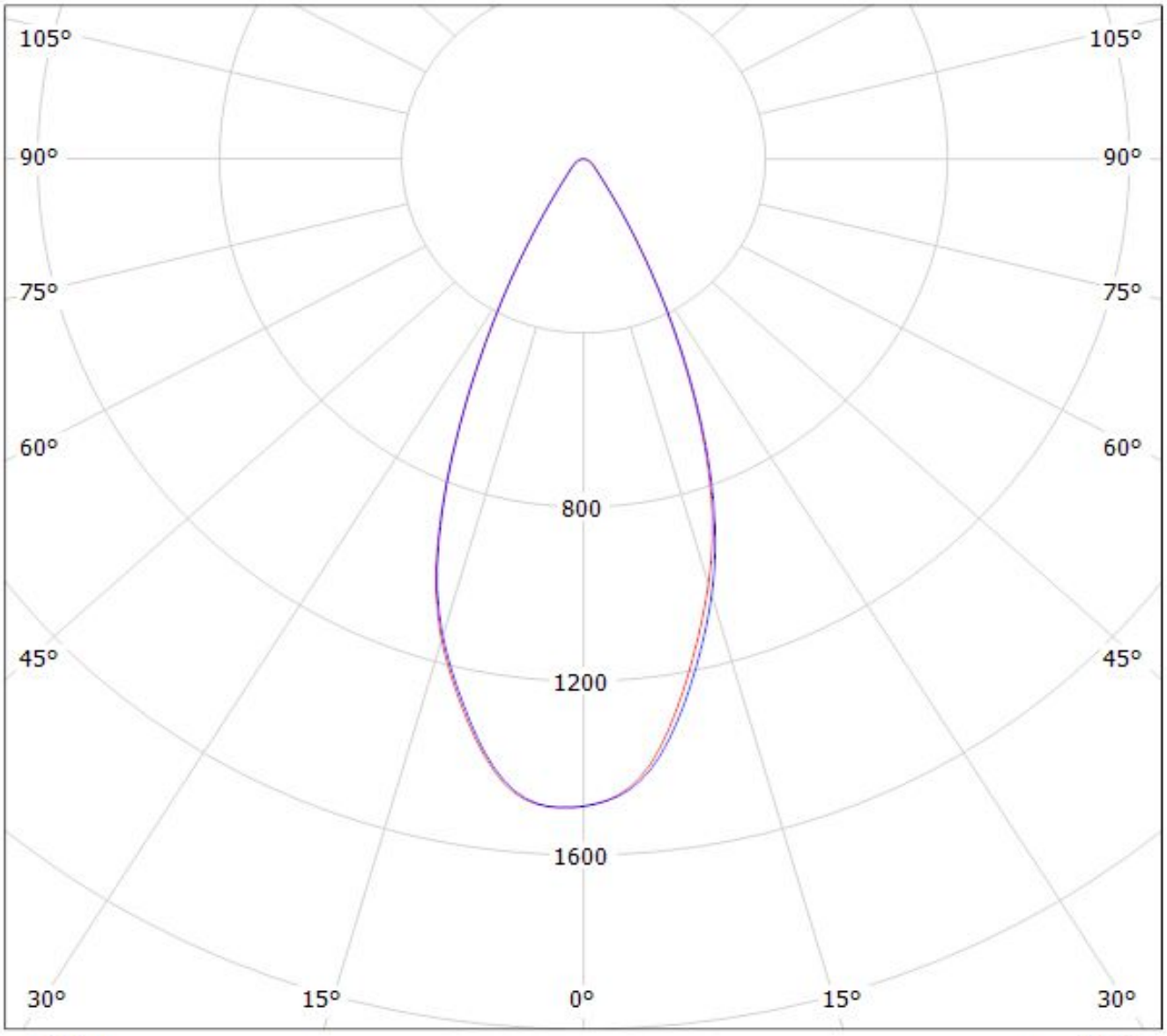


cd/klm

η = 92%

C0 - C180 C90 - C270

Luminaire: LEDiL Oy C12609_VIRPI-W_(REBEL-ES) Eff.91.0%
Lamps: 1 x REBEL-ES_VIRPI_5x5 (1790.01lm@250mA)

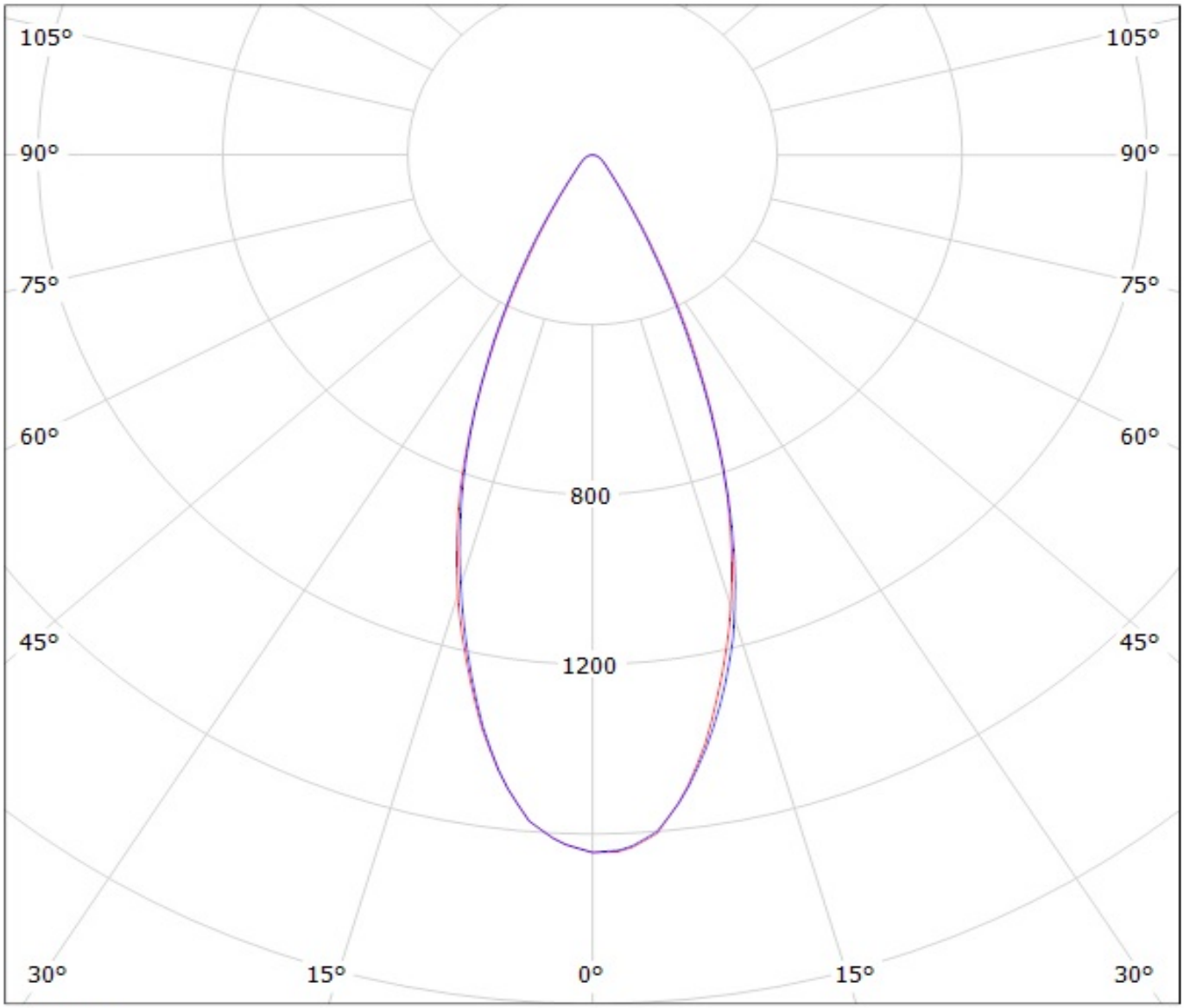


cd/klm

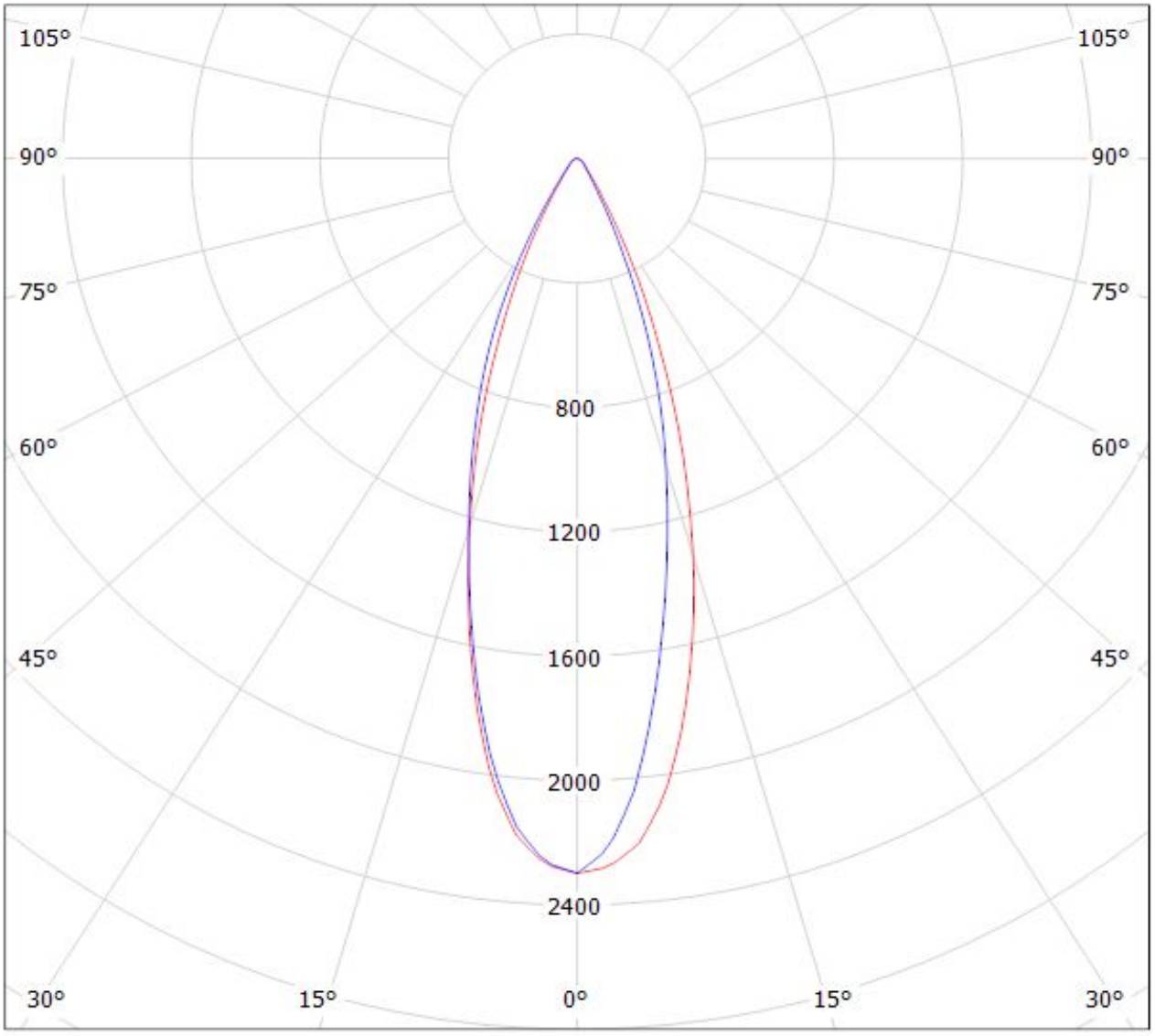
η = 91%

C0 - C180 C90 - C270

Luminaire: LEDiL Oy C12609_VIRPI-W_(NVS19) Eff: 90%
Lamps: 1 x NVS19_5x5 (1974lm@250mA)



Luminaire: LEDiL Oy C12609_VIRPI-W_(NF2x757A)
Lamps: 1 x Nichia_NF2x757A_(NF2W757ARTV1)_1037.67lm@250mA P=6.97966W I=249.8mA

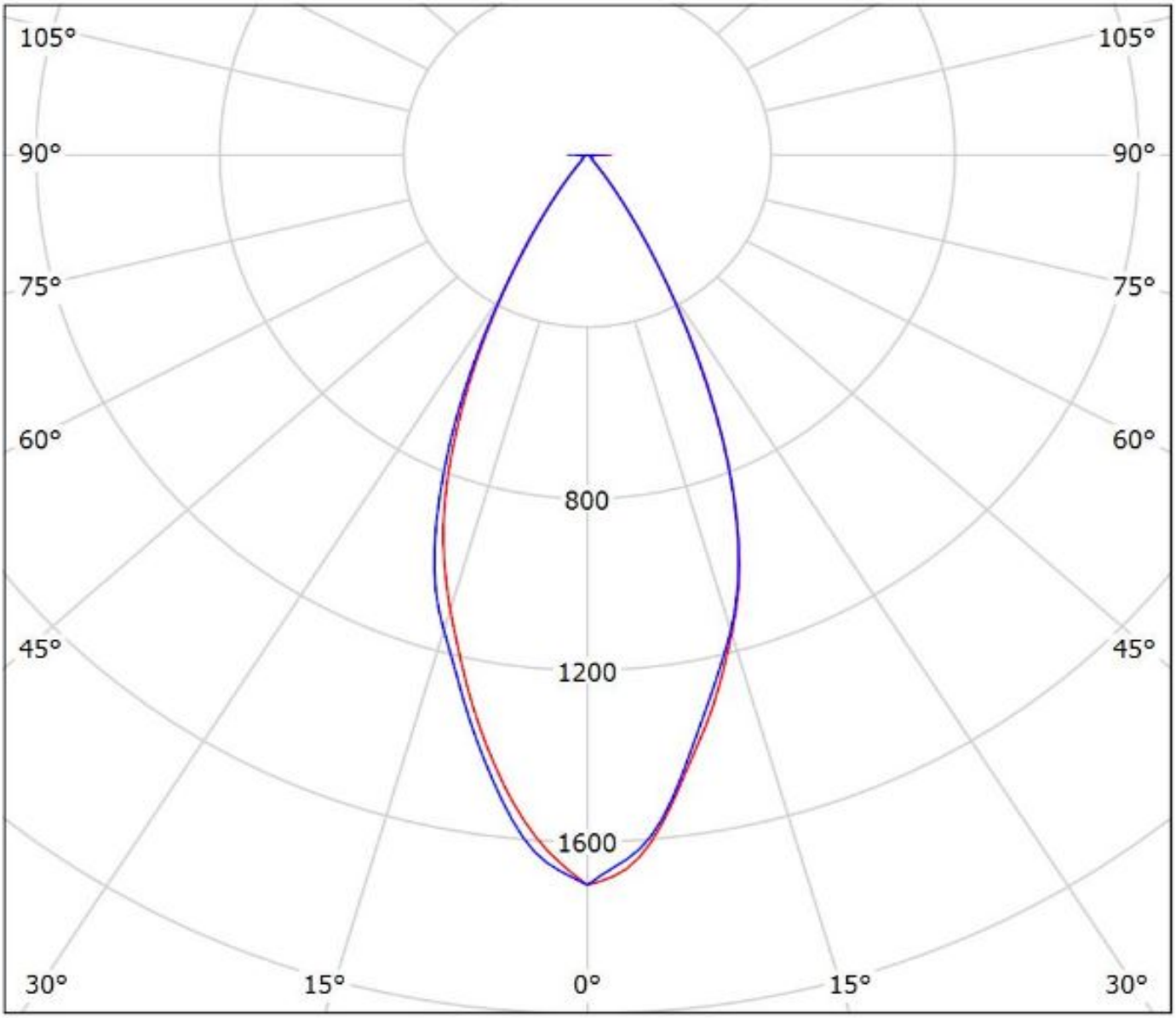


cd/klm

η = 92%

C0 - C180 C90 - C270

Luminaire: Ledil Oy C12609_VIRPI-W_NICHIA_NVSW219C_SIMULATED
Lamps: 1 x NICHIA NVSW219C

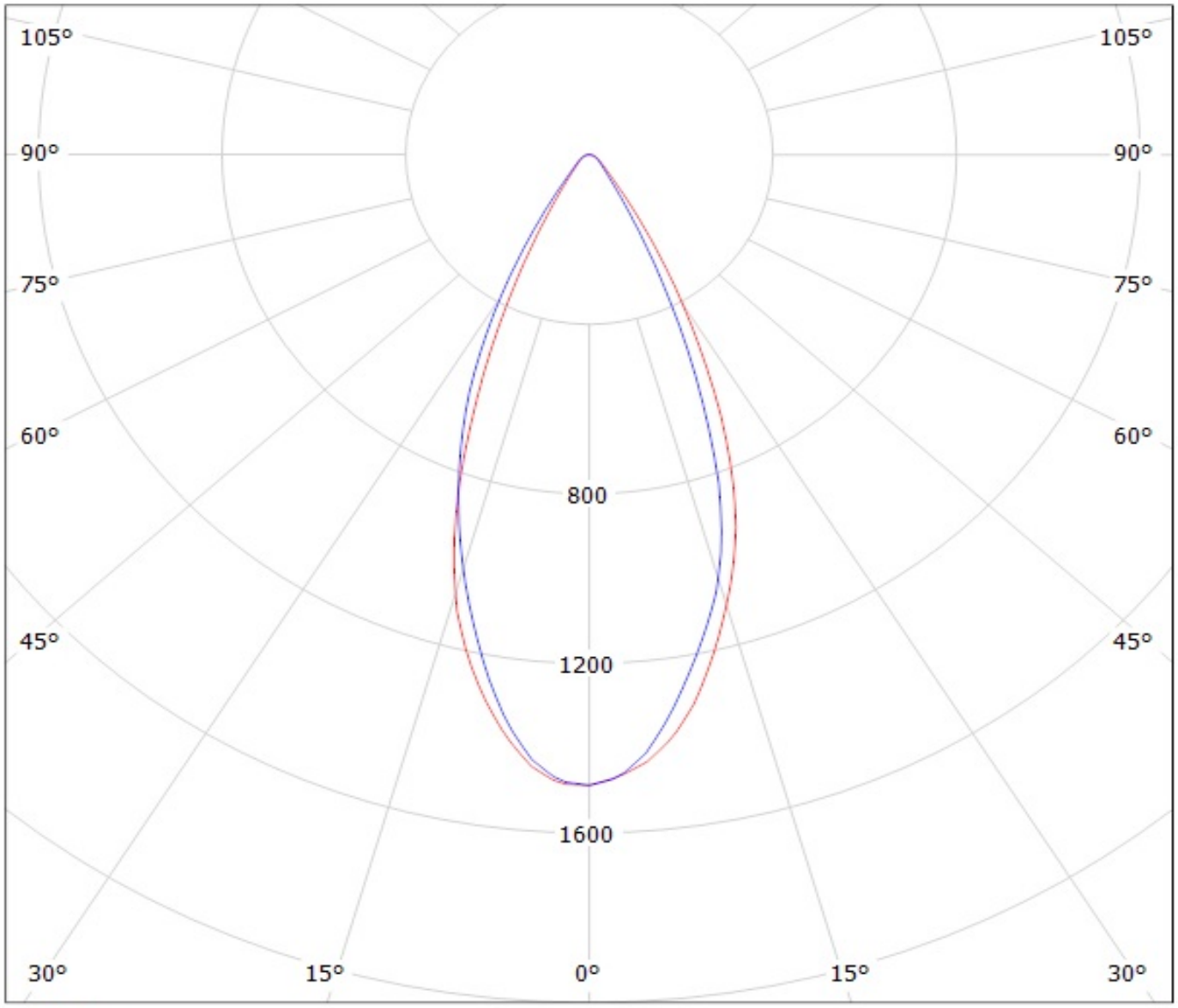


cd/klm

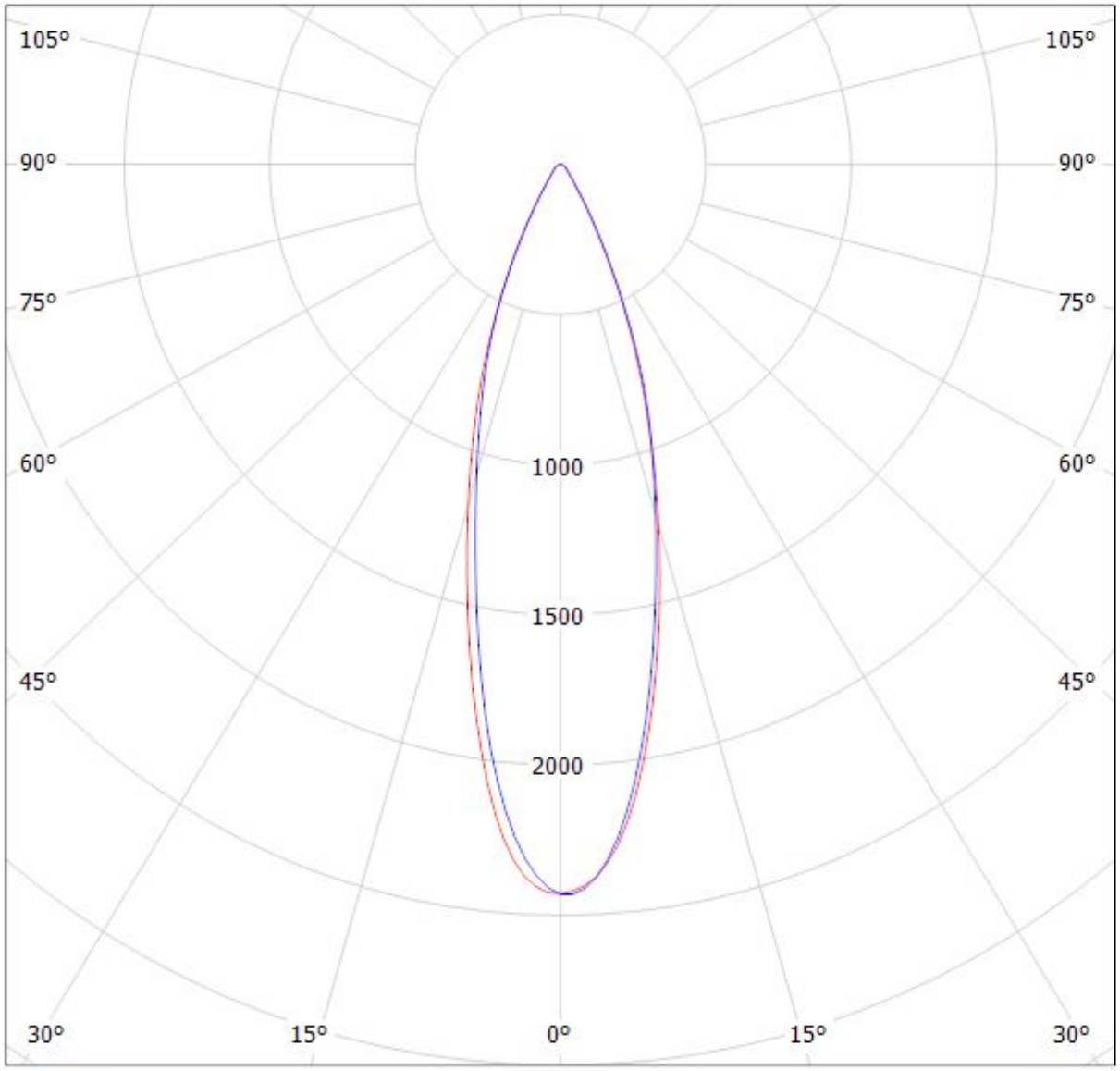
η = 94%

C0 - C180 C90 - C270

Luminaire: LEDiL Oy C12609_VIRPI-W_(SQ-EC) Eff: 91%
Lamps: 1 x SQ-EC_5x5 (2043.47lm@250mA)



Luminaire: LEDiL Oy C12609_VIRPI-W_(DURIS-S5)
Lamps: 1 x OSRAM_DURIS-S5_5x5_(GW_PSLLS1.EC-HPHR-5L7N-1)_160.476lm@80mA_P=1.10163W_I=80.2mA

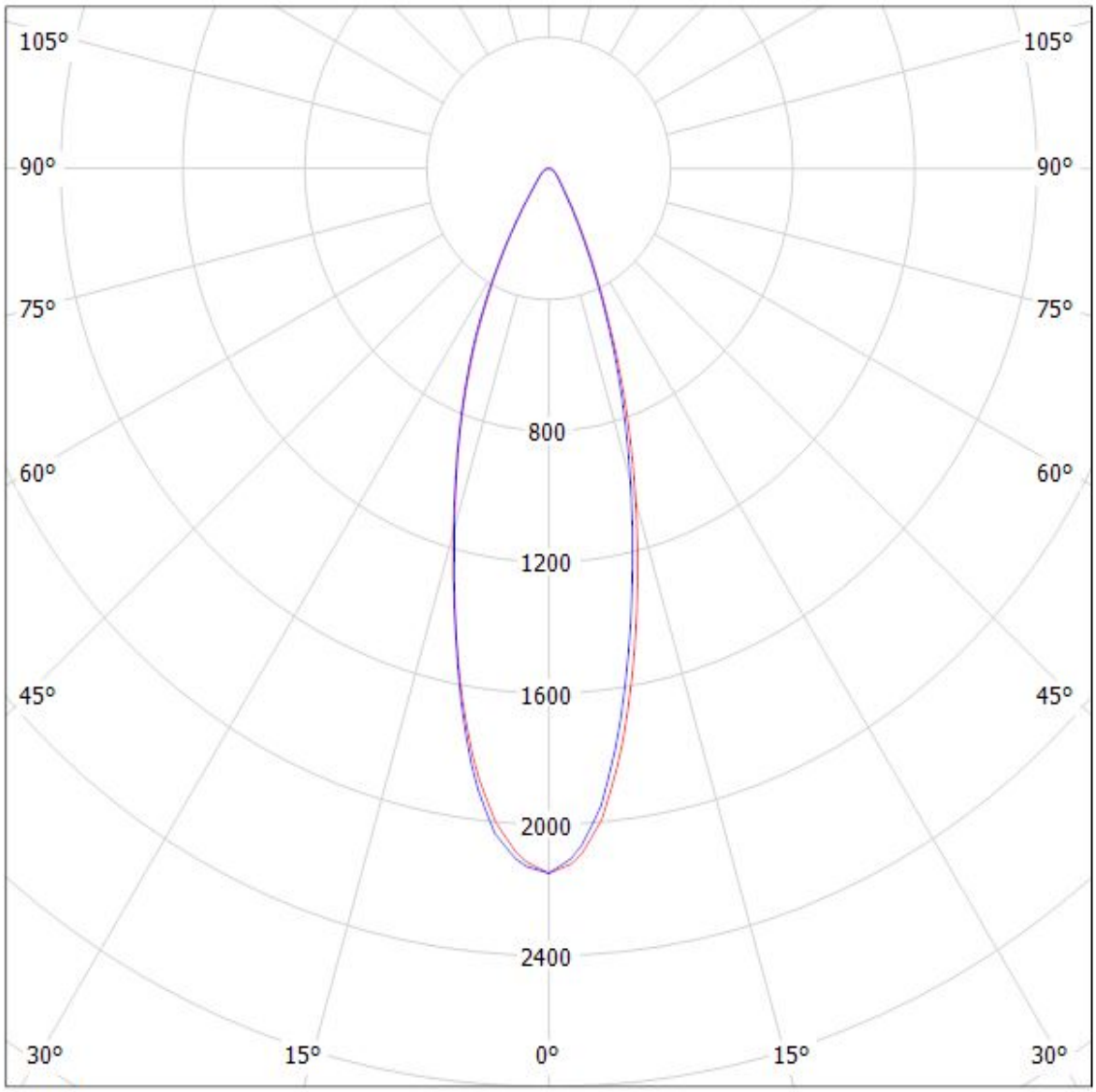


cd/klm

η = 92%

C0 - C180 C90 - C270

Luminaire: LEDiL Oy CC12609_VIRPI-W_(DURIS_P5)
Lamps: 1 x OSRAM_DURIS_P5_5x5_(GW_DASPA1.EC-HPHR-5R8T-1)_163.795lm@100mA_P=1.37895W_I=100.2mA



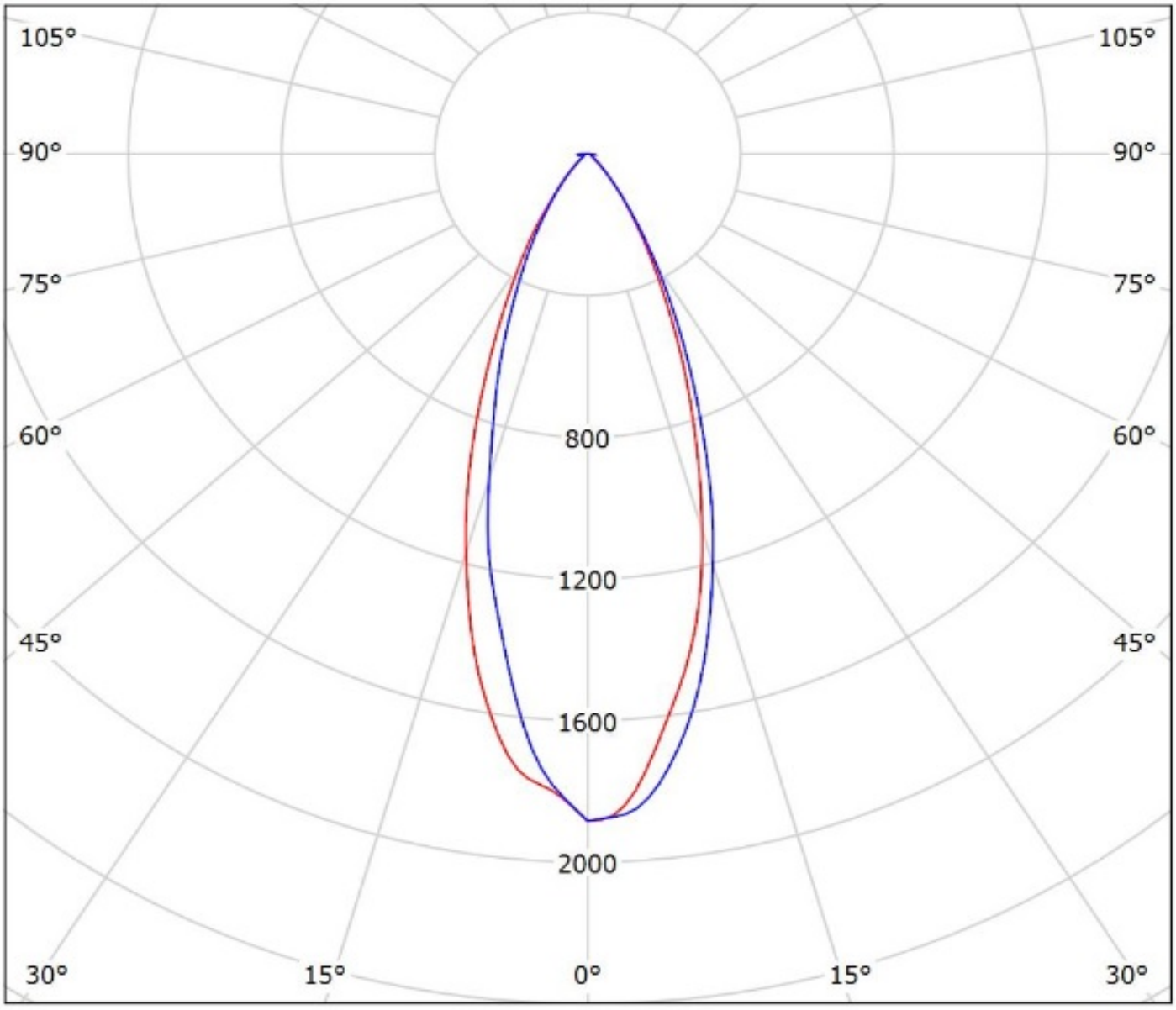
cd/klm

η = 90%

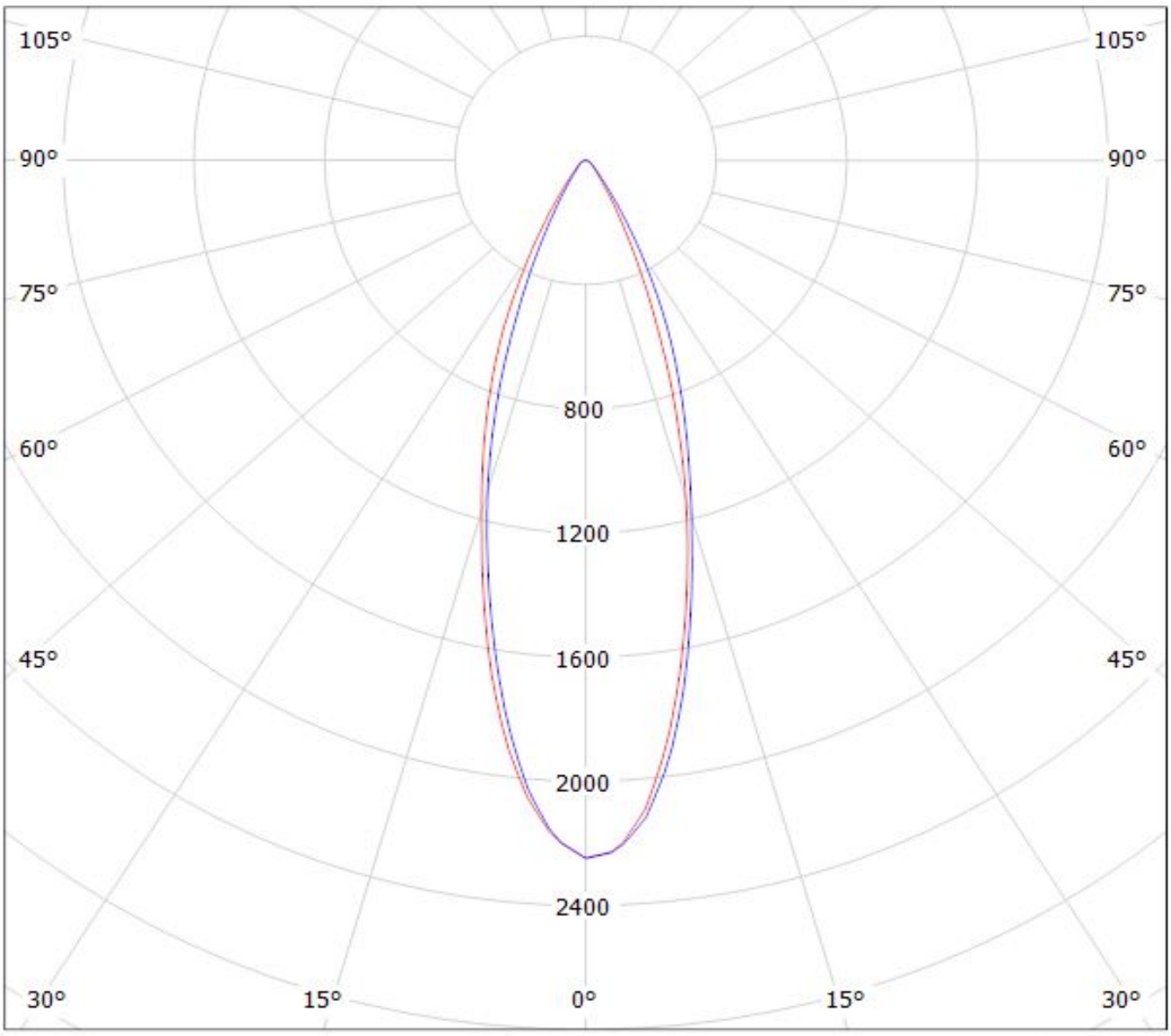
C0 - C180

C90 - C270

Luminaire: Ledil Oy C12609_VIRPI-W_(Osram_Oslon_Square_Gen3)_SIMULATED
Lamps: 1 x Osram Oslon Square Gen 3 (GW CSSRM2.PM)



Luminaire: LEDiL Oy C12609_VIRPI-W_(LM231B)
Lamps: 1 x SAMSUNG_LM231B_5X5_121.687lm@65mA_P=0.886133W_I=65,2mA



cd/klm

η = 93%

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.