PRODUCT DATASHEET
Virpi series
last update 2/3/2017

DETAILS

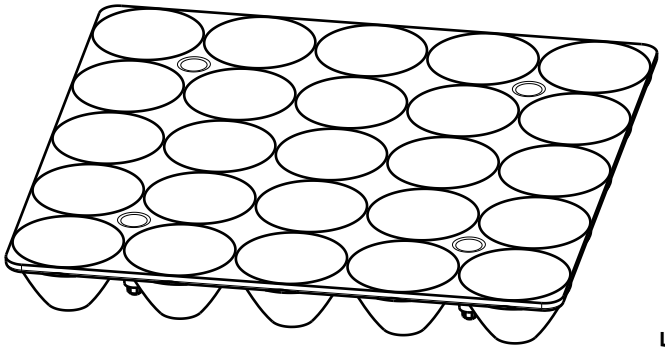
Product Number	C12608_VIRPI-M
Family	Virpi
Type	Lens array
Color	clear
Diameter	74,9 x 74,9 mm
Height	9,5 mm
Style	square
Optic Material	PMMA
Holder Material	
Fastening	glue, pin
Status	production ready
ROHS Comliant	Yes
Date Updated	2/03/2017

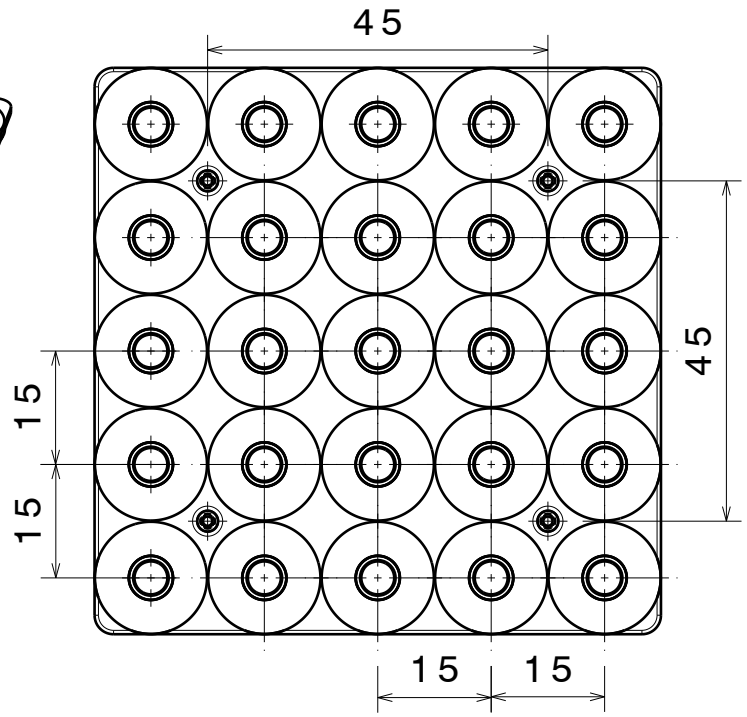
OPTICAL PROPERTIES

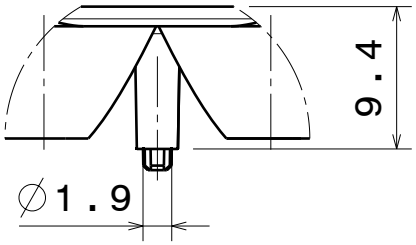
LED	Viewing Angle	Light Beam	Effi-ciency	cd/lm	Connector
XP-G	29 deg	Medium	92 %	2.530	-
XT-E	29 deg	Medium	91 %	2.620	-
XB-D	28 deg	Medium	92 %	2.830	-
XP-E2	28 deg	Medium	91 %	3.000	-
XP-G2	29 deg	Medium	91 %	2.700	-
XH-B/G	30 deg	Medium	90 %	2.400	-
ML-E	29 deg	Medium	91 %	2.500	-
LG 3030	28 deg	Medium	91 %	2.800	-
LUXEON Rebel ES	28 deg	Medium	91 %	2.620	-
LUXEON T	sim: 26	Medium	sim: 91 %	sim: 3.350	-
LUXEON TX	sim: 27	Medium	sim: 92 %	sim: 3.250	-
LUXEON C	sim: 23	Medium	sim: 86 %	sim: 3.700	-
LUXEON SunPlus 20 Line	sim: 27	Medium	sim: 88 %	sim: 3.400	-
LUXEON SunPlus 35 Line	sim: 26	Medium	sim: 93 %	sim: 3.600	-
NVSxx19A	29 deg	Medium	90 %	2.580	-
NF2x757A	28 deg	Medium	92 %	2.900	-
NVSxx19B/NVSxx19C	sim: 27	Medium	sim: 94 %	sim: 3.190	-
Oslon Square EC	28 deg	Medium	91 %	2.820	-
Duris S5 (Single chip)	28 deg	Medium	92 %	3.100	-
Duris P5	29 deg	Medium	90 %	2.600	-
Oslon Square Gen3	sim: 26	Medium	sim: 93 %	sim: 3.400	-
LM231 A/B	28 deg	Medium	92 %	3.100	-

Ledil Oy
Salorankatu 10
24240 SALO, Finland

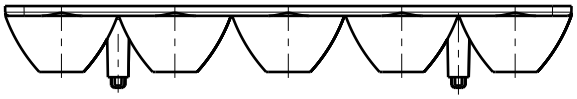
http://www.ledil.com
email: ledil@ledil.com
FAX: +358-2-733 8001

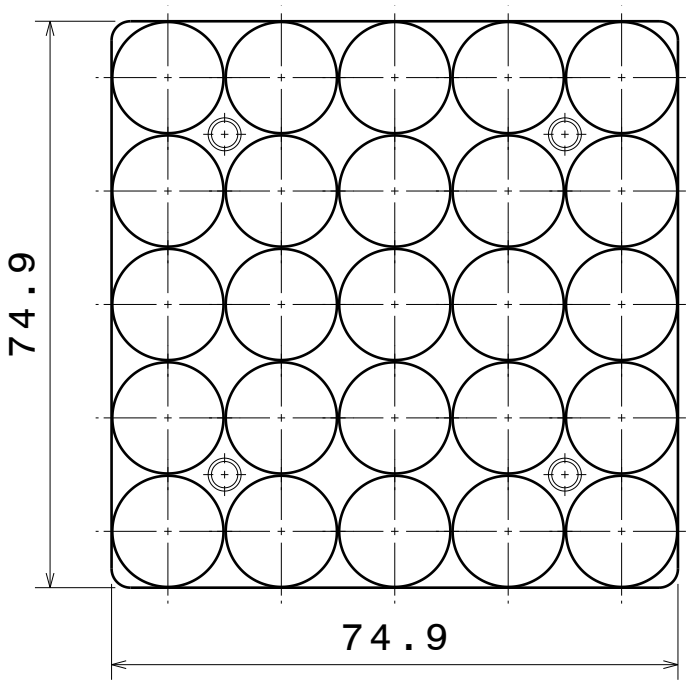






Detail A
Scale: 2:1





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

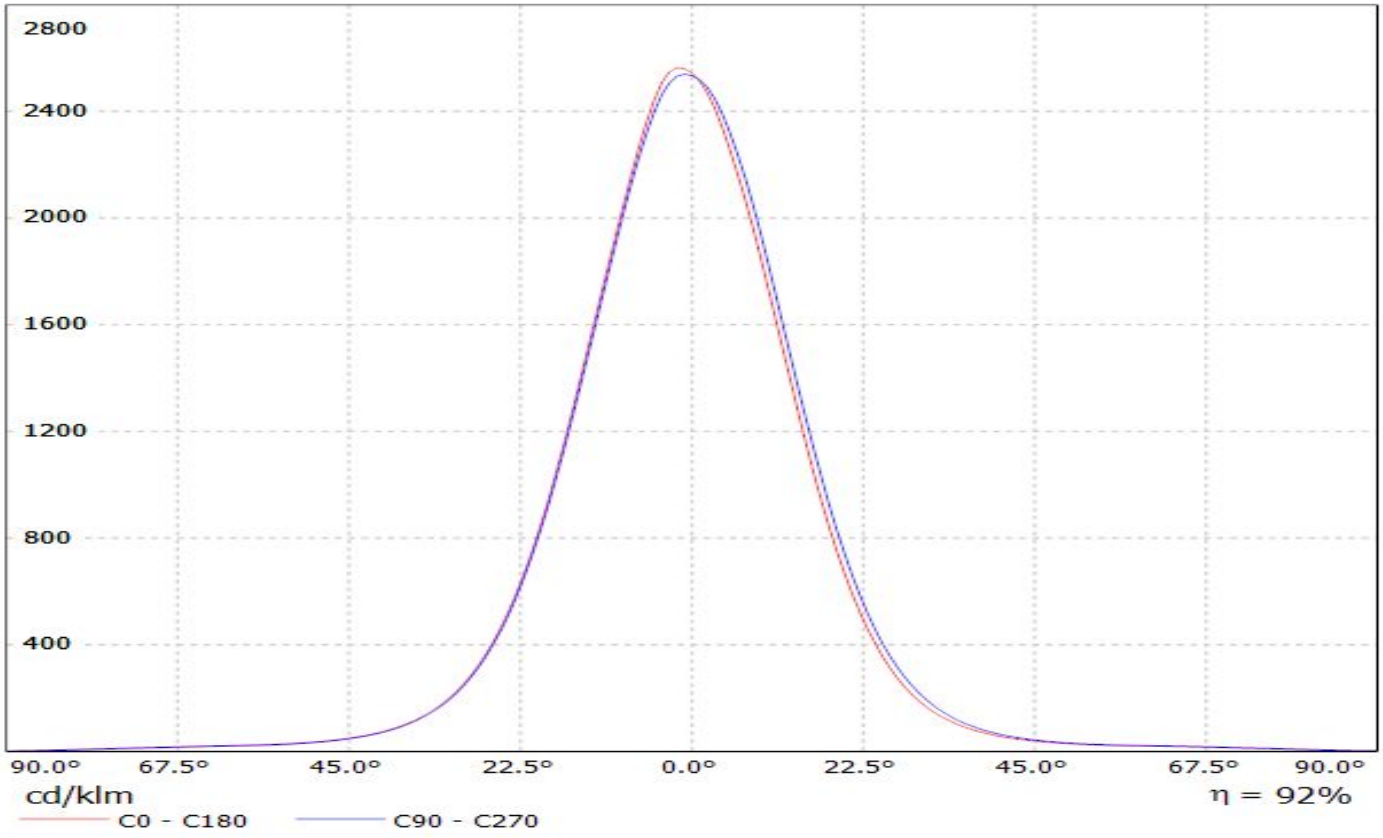
Datasheet Virpi series

SIZE	DRAWING NUMBER	REV
A4	-	1

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

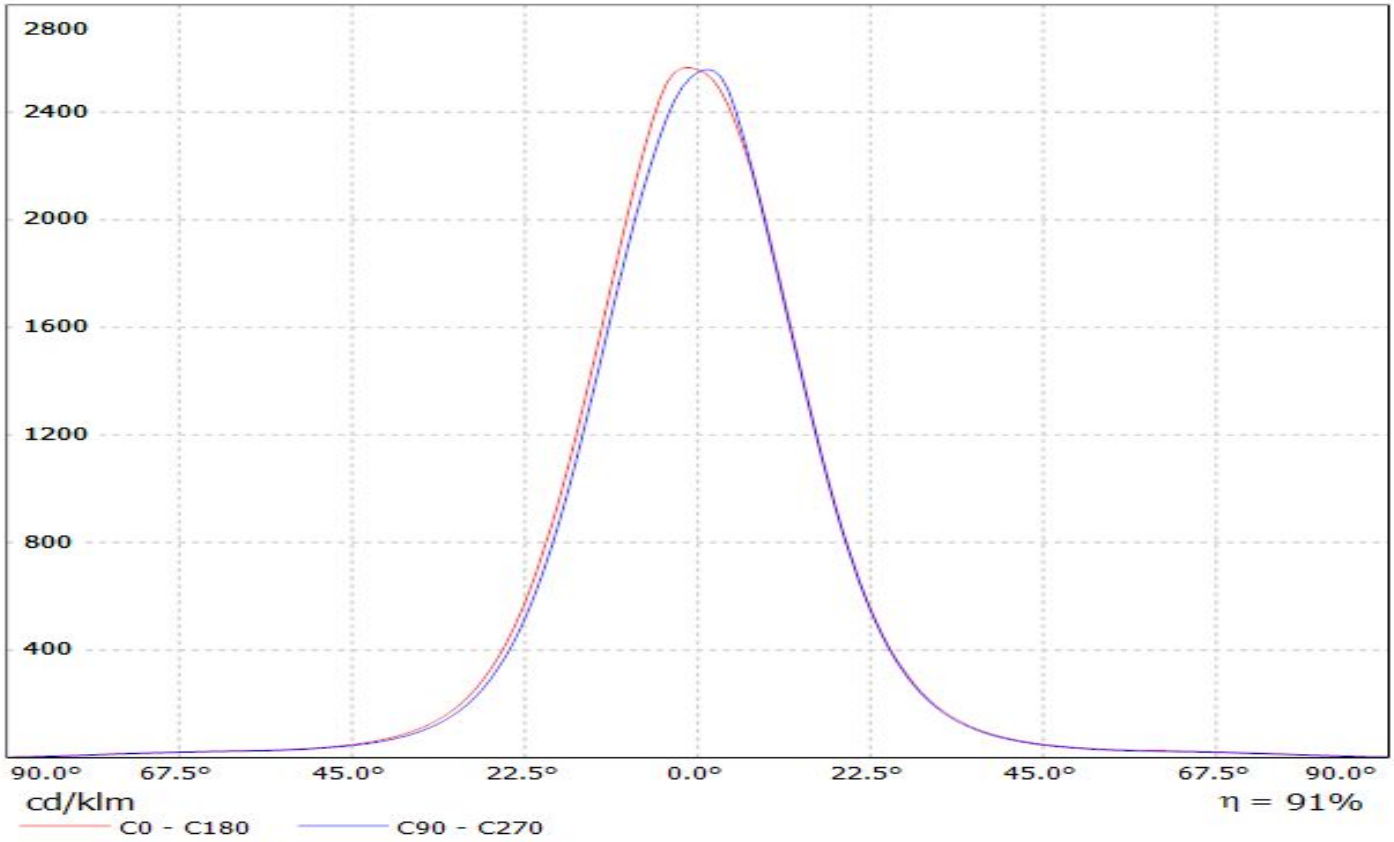
LEDiL Oy C12608_VIRPI-M_(XP-G) Eff.91.9% / LDC (Linear)

Luminaire: LEDiL Oy C12608_VIRPI-M_(XP-G) Eff.91.9%
Lamps: 1 x XP-G_5x5 (1544.25lm@250mA)

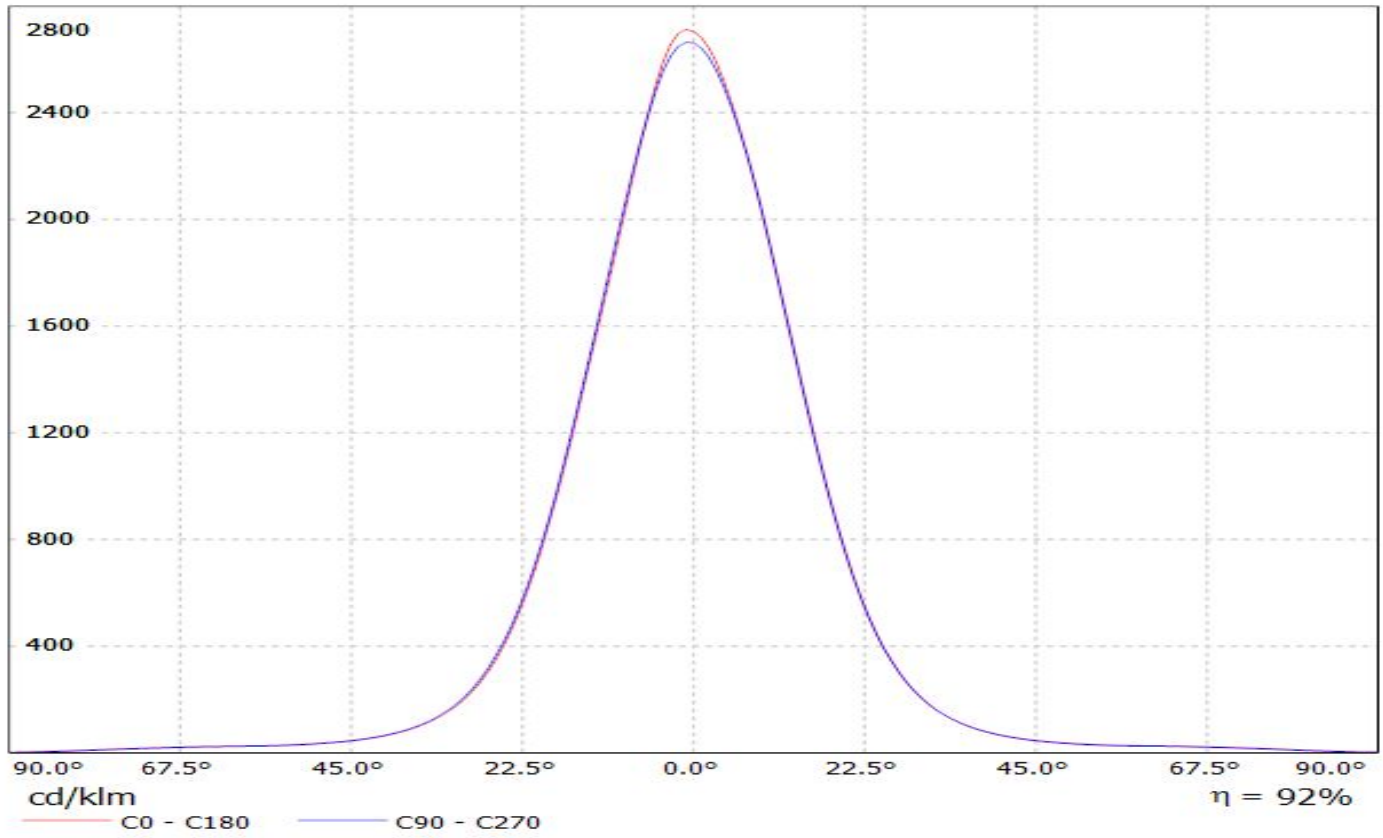


LEDiL Oy C12608_VIRPI-M_(XT-E) Eff.91.0% / LDC (Linear)

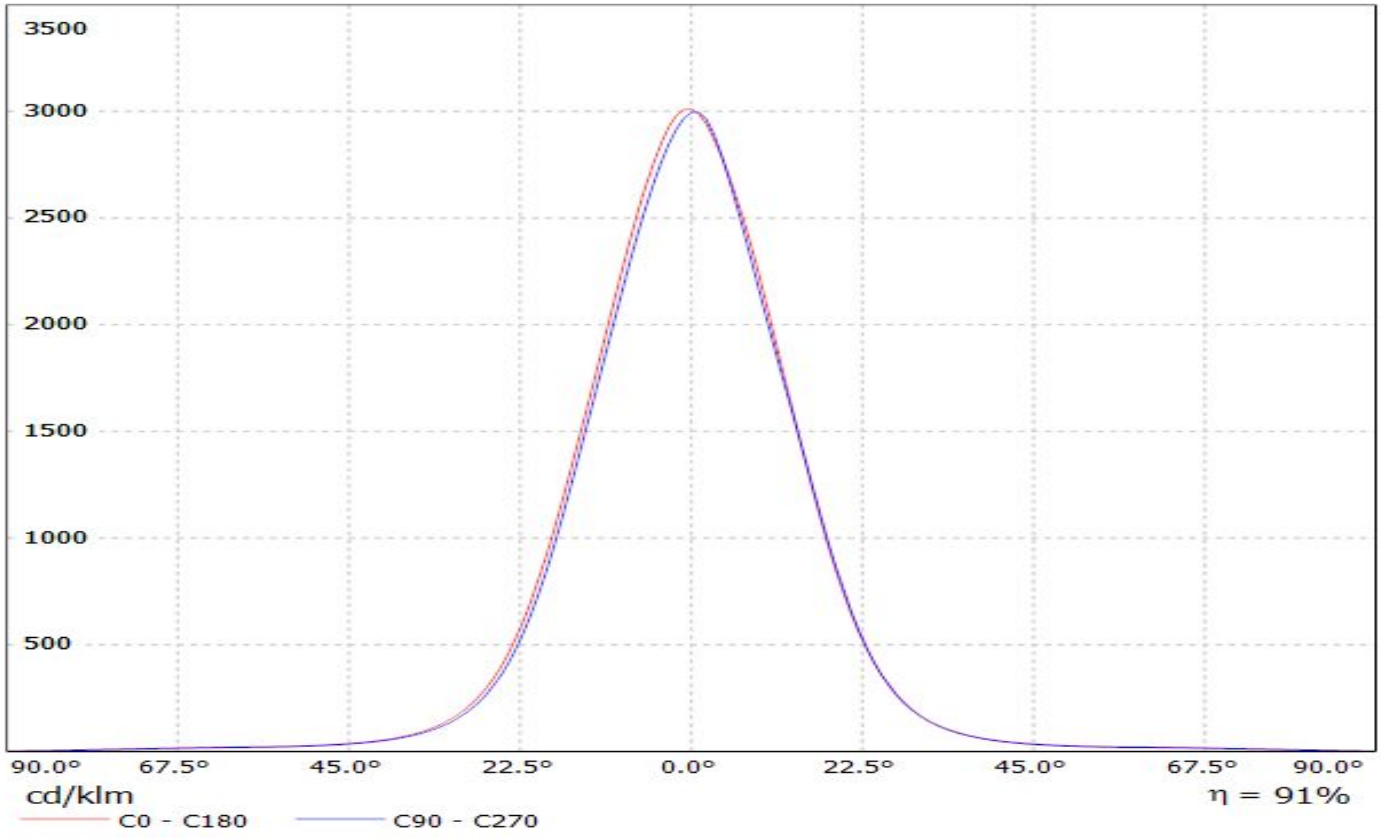
Luminaire: LEDiL Oy C12608_VIRPI-M_(XT-E) Eff.91.0%
Lamps: 1 x XT-E_5x5 (2049.85lm@250mA)



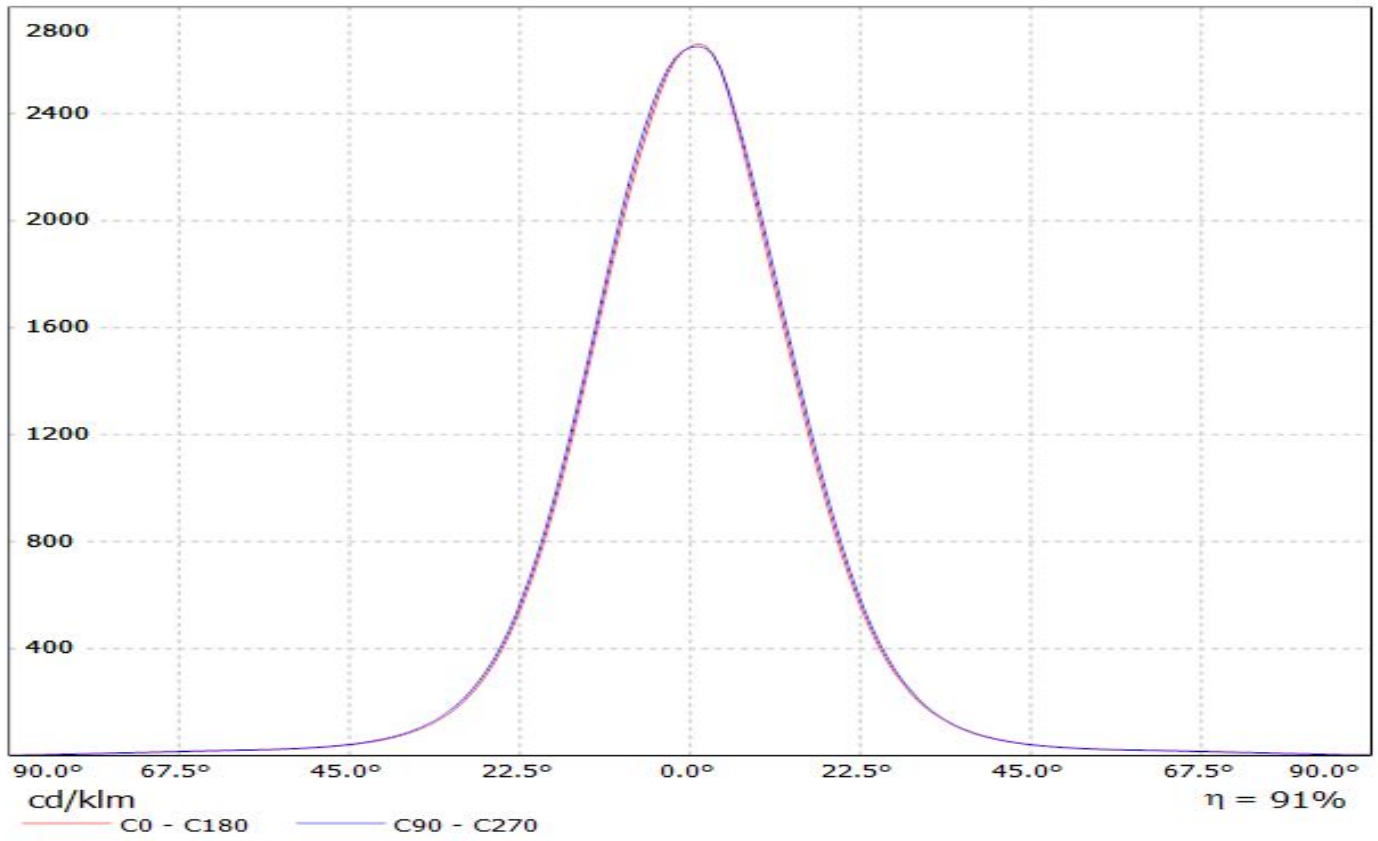
Luminaire: LEDiL Oy C12608_VIRPI-M_(XB-D) Eff.92.1%
Lamps: 1 x XB-D_5x5 (1878.23lm@250mA)



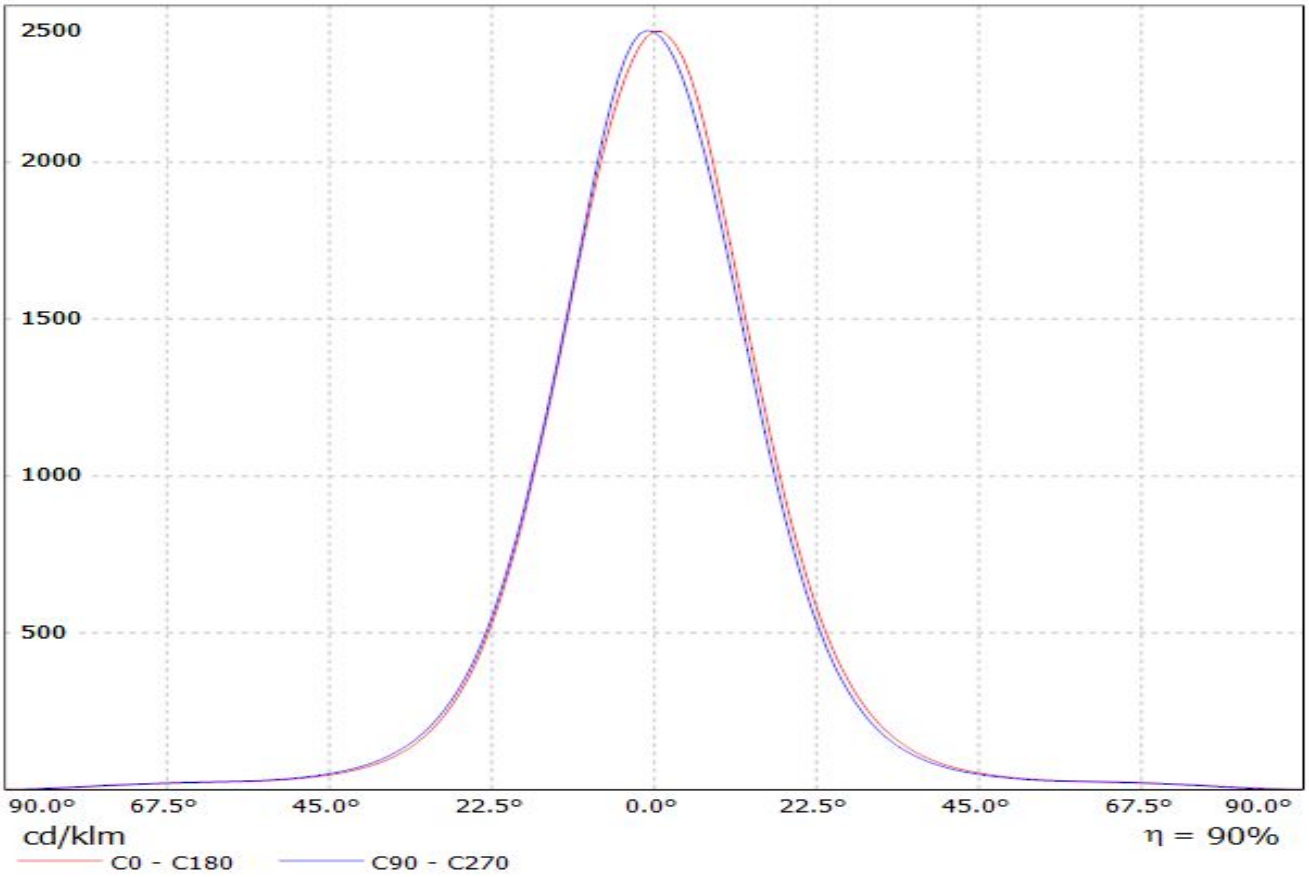
Luminaire: LEDiL Oy C12608_VIRPI-M_(XP-E2) Eff.91.2%
Lamps: 1 x XP-E2_x25 (2039.65lm@250mA)



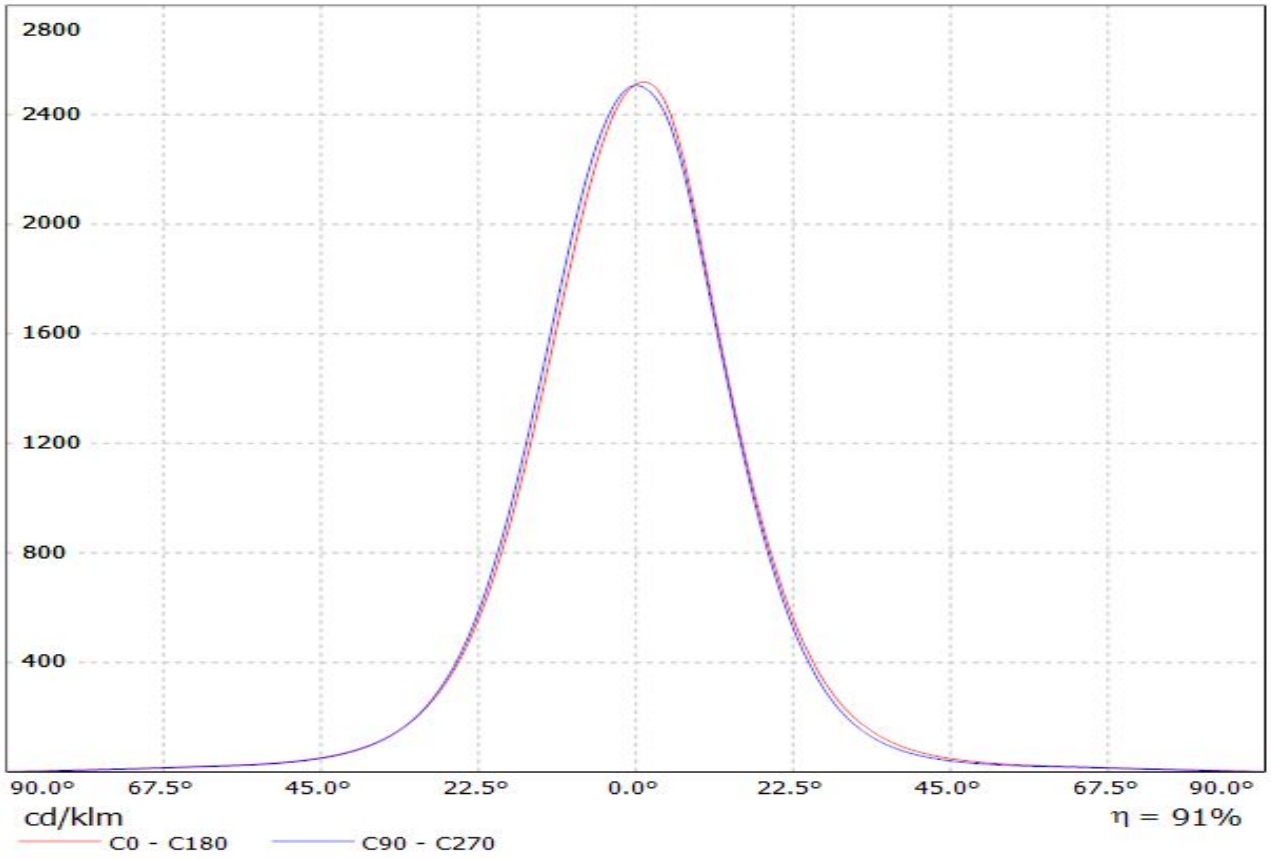
Luminaire: LEDiL Oy C12608_VIRPI-M_(XP-G2) Eff.91.1%
Lamps: 1 x XP-G2_x25 (2535.22lm@250mA)



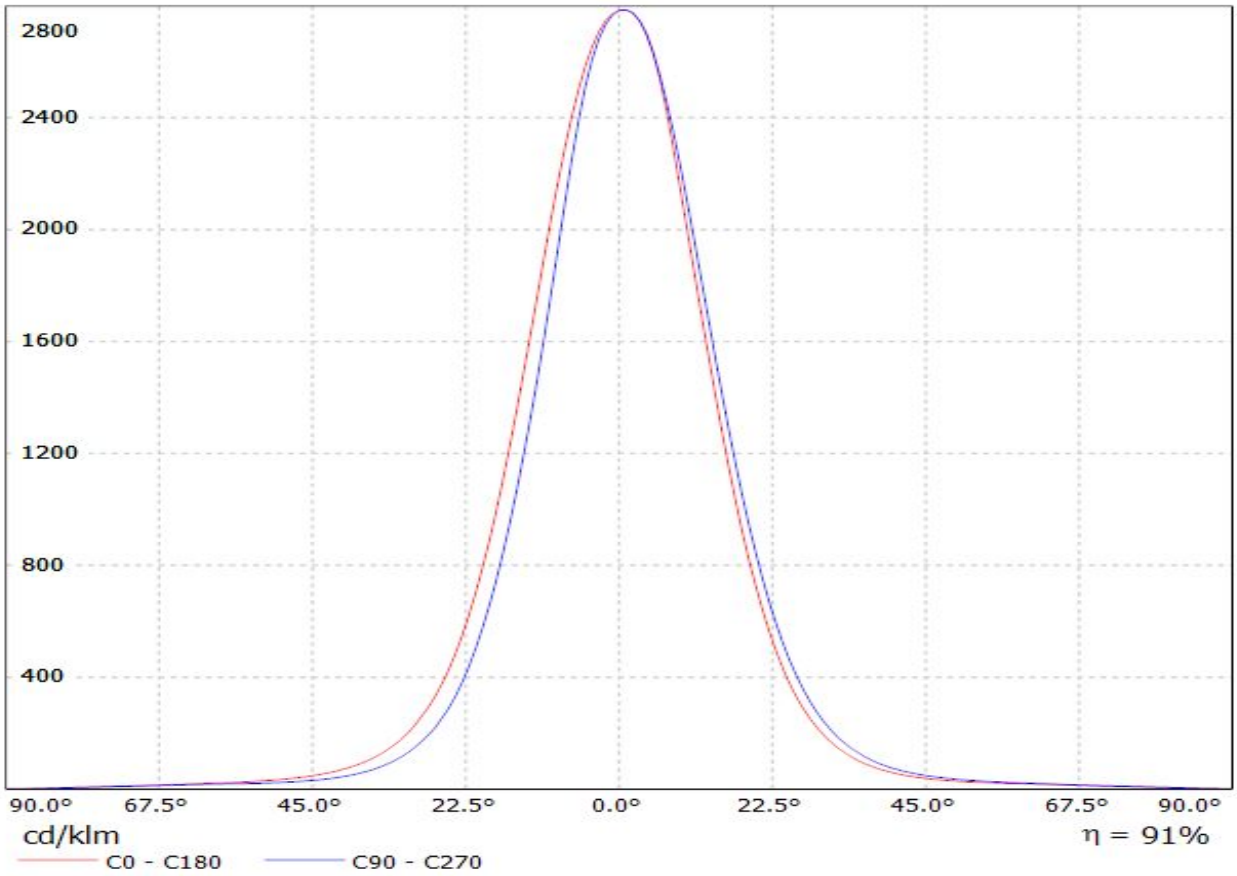
Luminaire: LEDiL Oy C12608_VIRPI-M_(XH-B)
Lamps: 1 x CREE_XH-B_136.467lm@65mA_P=0.911626_I=65.2mA



Luminaire: LEDiL Oy C12608_VIRPI-M_(ML-E)
Lamps: 1 x CREE_ML-E_5x5_(MLEAWT-U1-7A3-K3-0-00003)_178.608lm@150mA_P=2.1053W_I=150.1mA

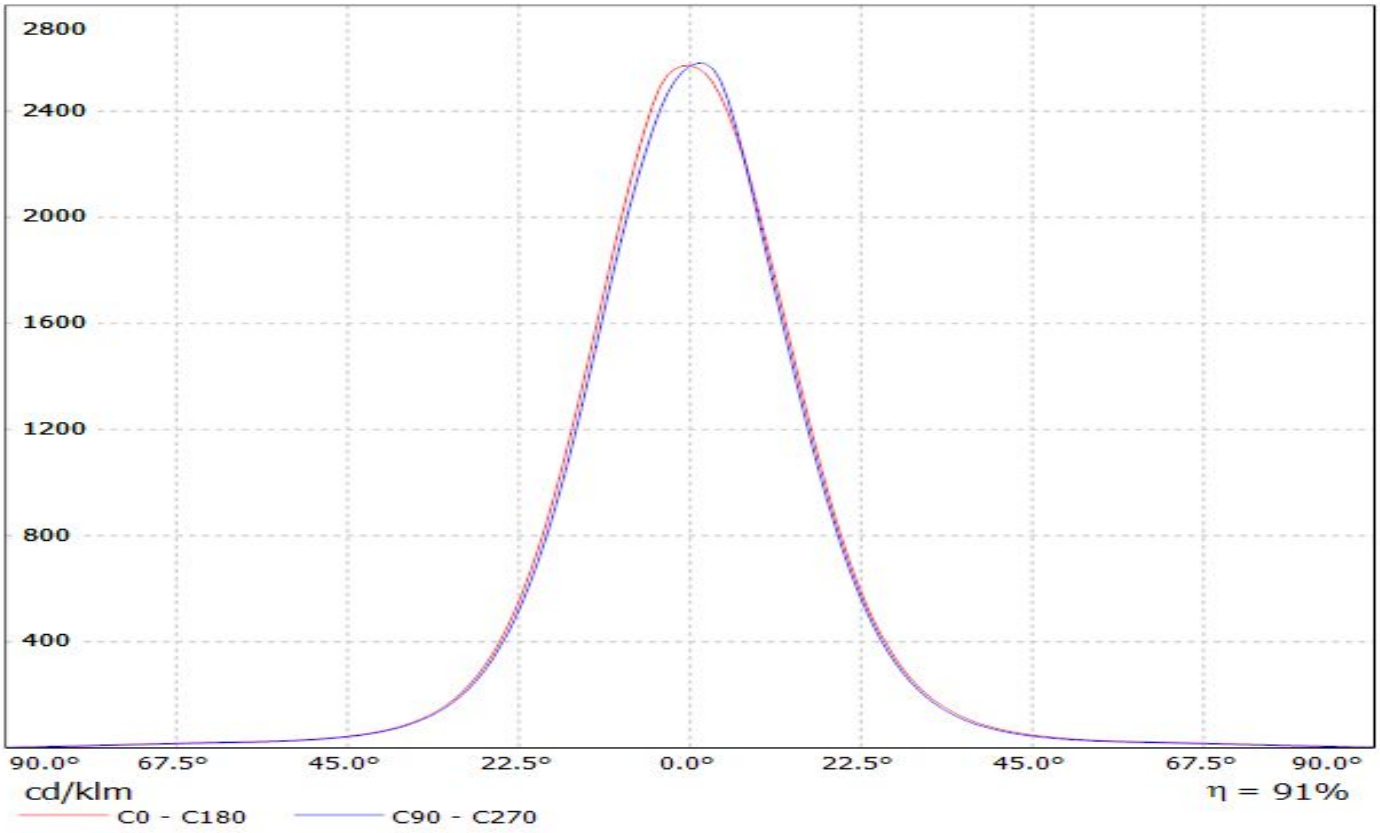


Luminaire: LEDiL Oy C12608_VIRPI-M_(LG_3030)
Lamps: 1 x LG_3030_3000k_522.247lm@150mA_P=4.12515W_I=150mA



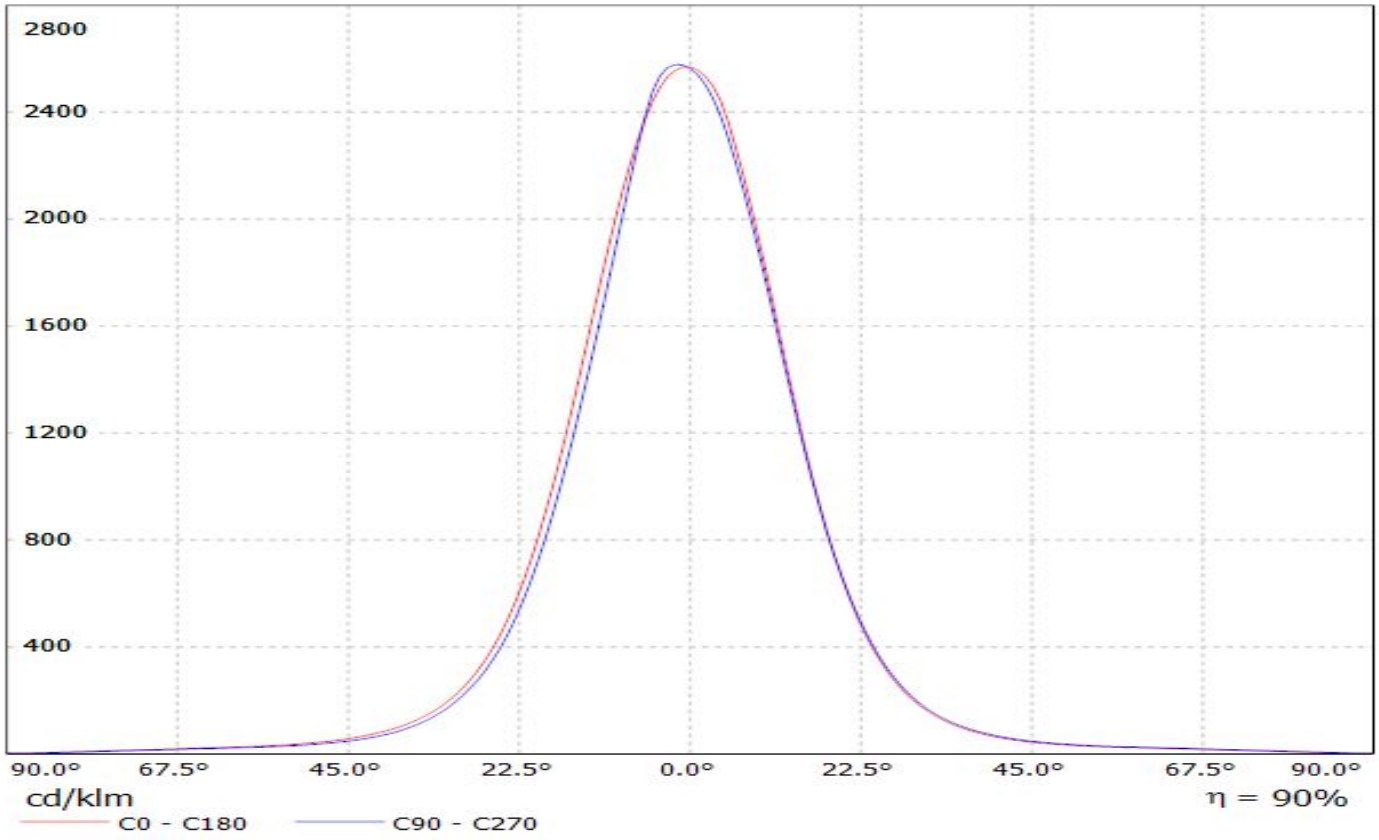
LEDiL Oy C12608_VIRPI-M_(REBEL_ES) Eff.90.6% / LDC (Linear)

Luminaire: LEDiL Oy C12608_VIRPI-M_(REBEL_ES) Eff.90.6%
Lamps: 1 x REBEL_ES_5x5 (1766.64lm@250mA)

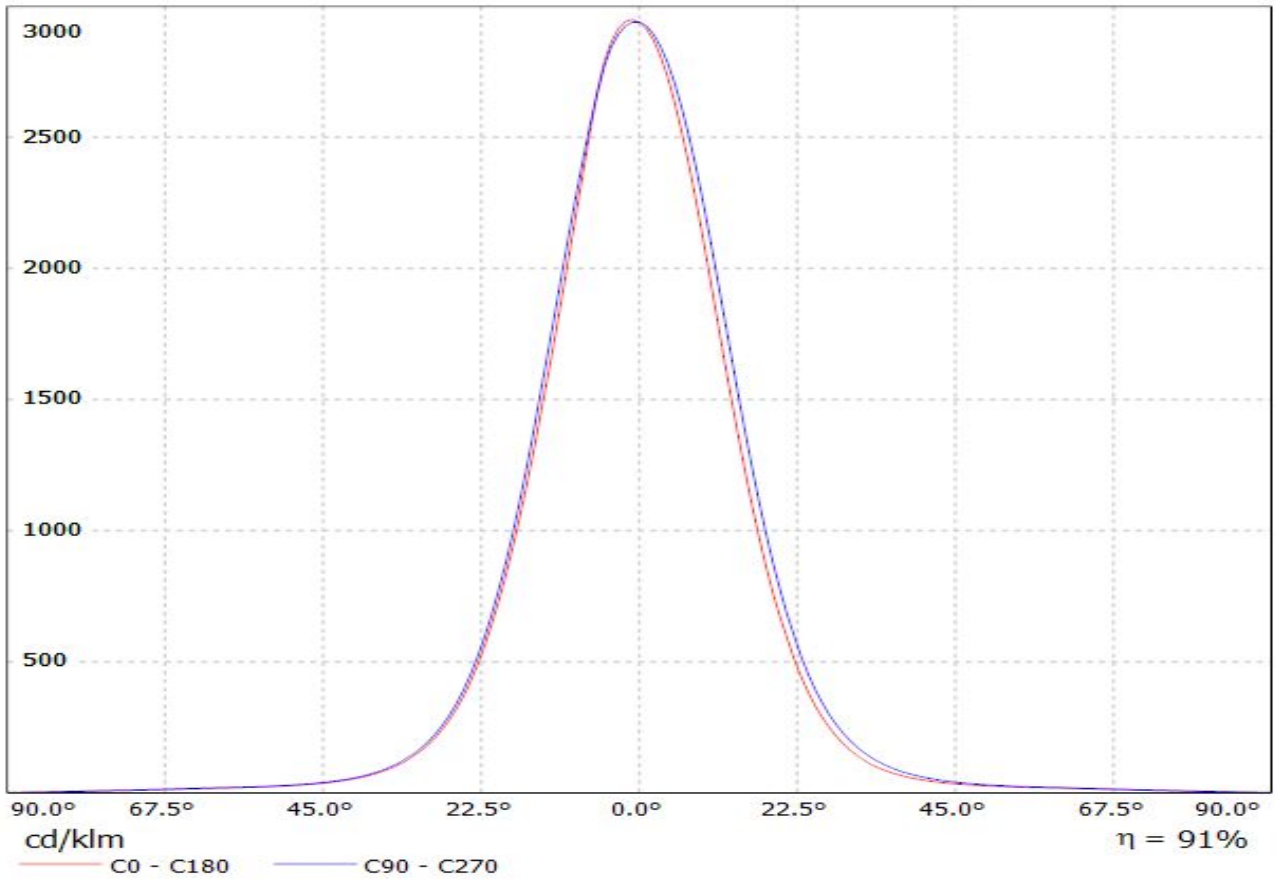


LEDiL Oy C12608_VIRPI-M_(NVS19) Eff.90.1% / LDC (Linear)

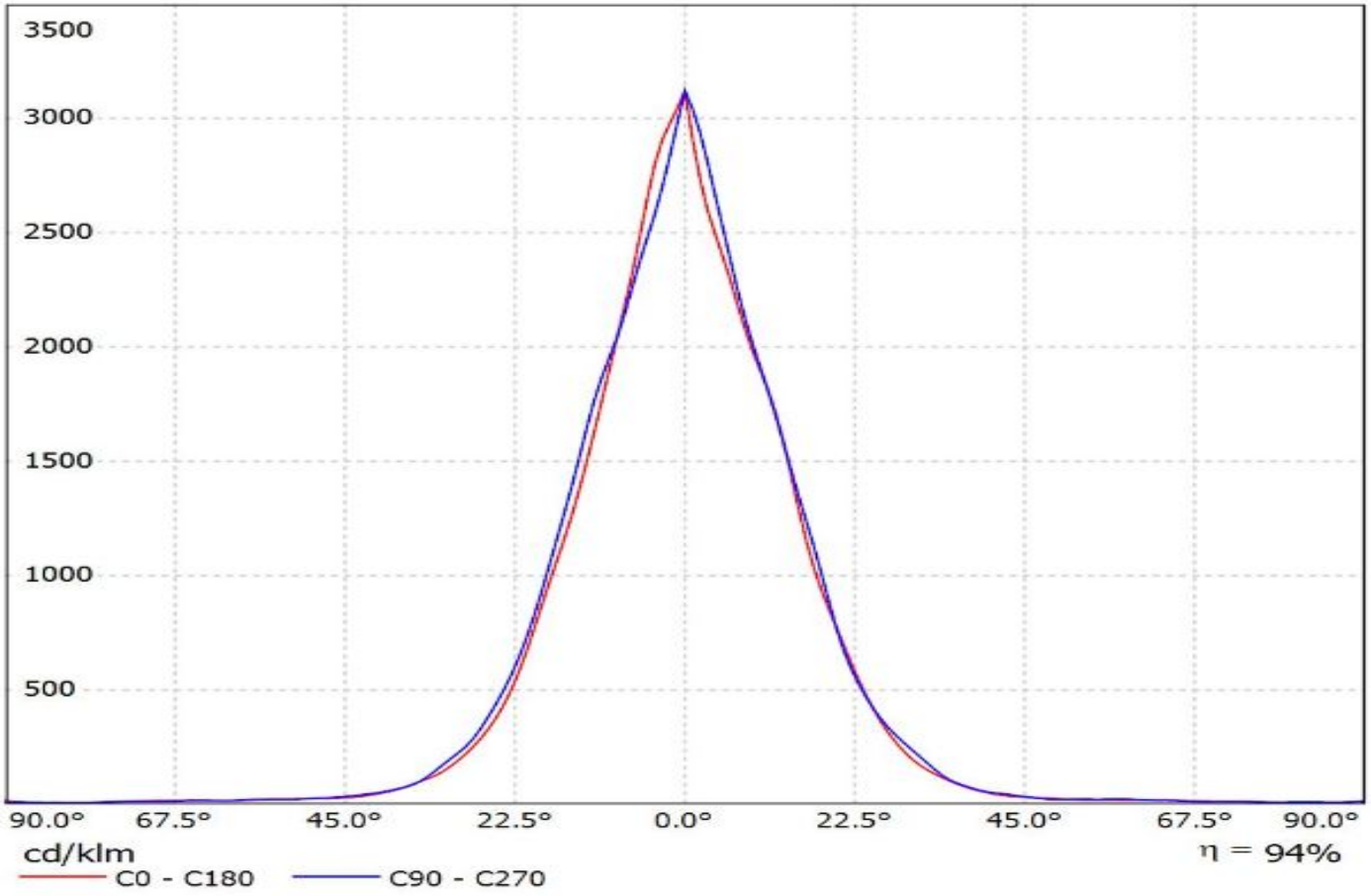
Luminaire: LEDiL Oy C12608_VIRPI-M_(NVS19) Eff.90.1%
Lamps: 1 x NVS19_5x5 (1782.78lm@250mA)



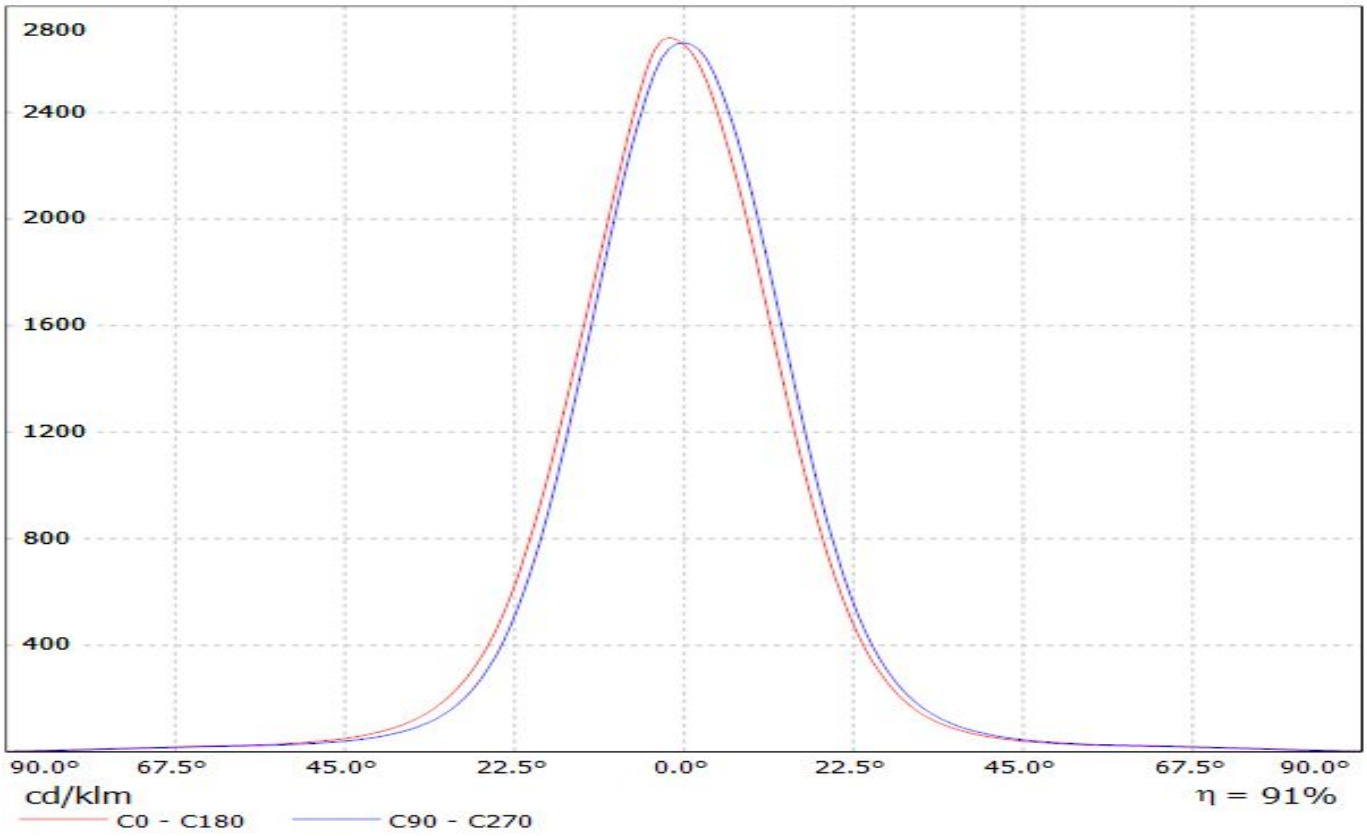
Luminaire: LEDiL Oy C12608_VIRPI-M_(NF2x757A)
Lamps: 1 x Nichia_NF2x757A_(NF2W757ARTV1)_1037.67lm@250mA P=6.97966W I=249.8mA



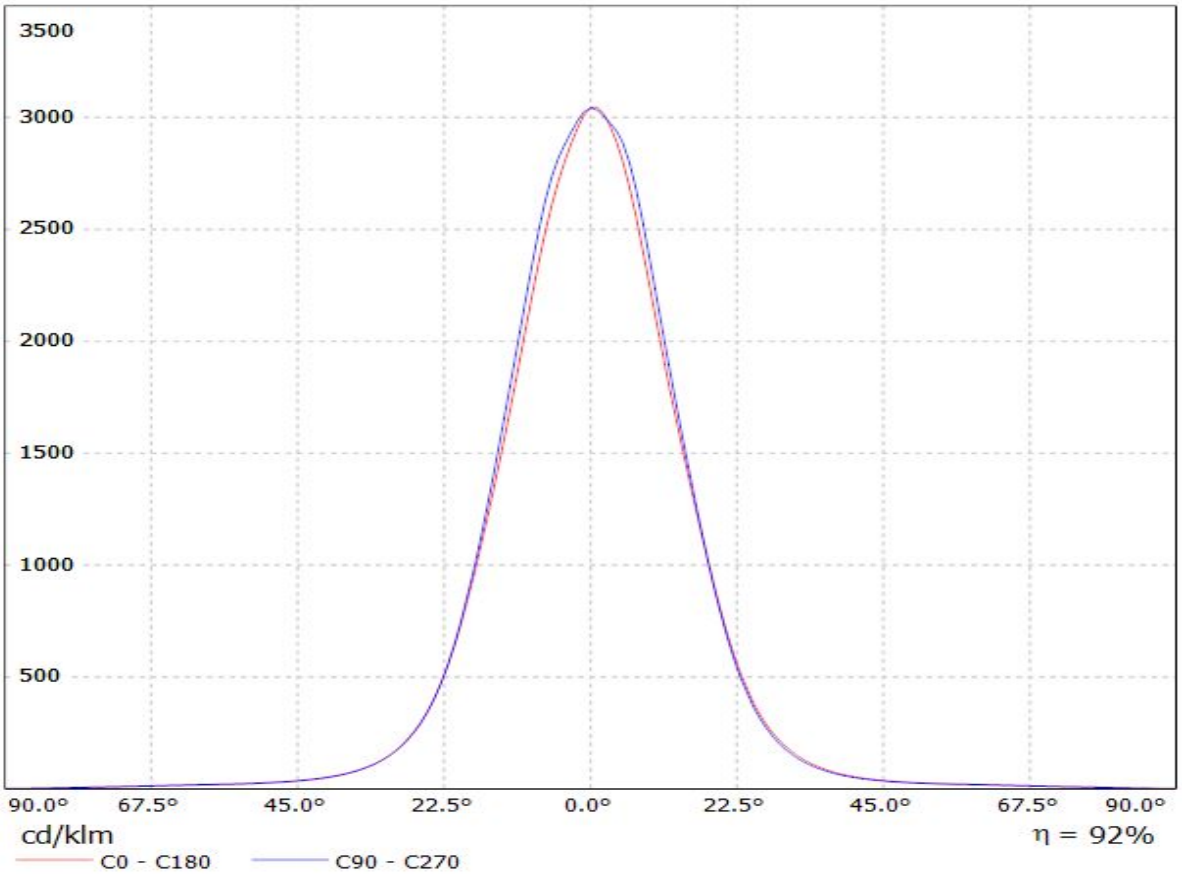
Luminaire: Ledil Oy C12608_VIRPI-M_NICHIA_NVSW219C_SIMULATED
Lamps: 1 x NICHIA NVSW219C



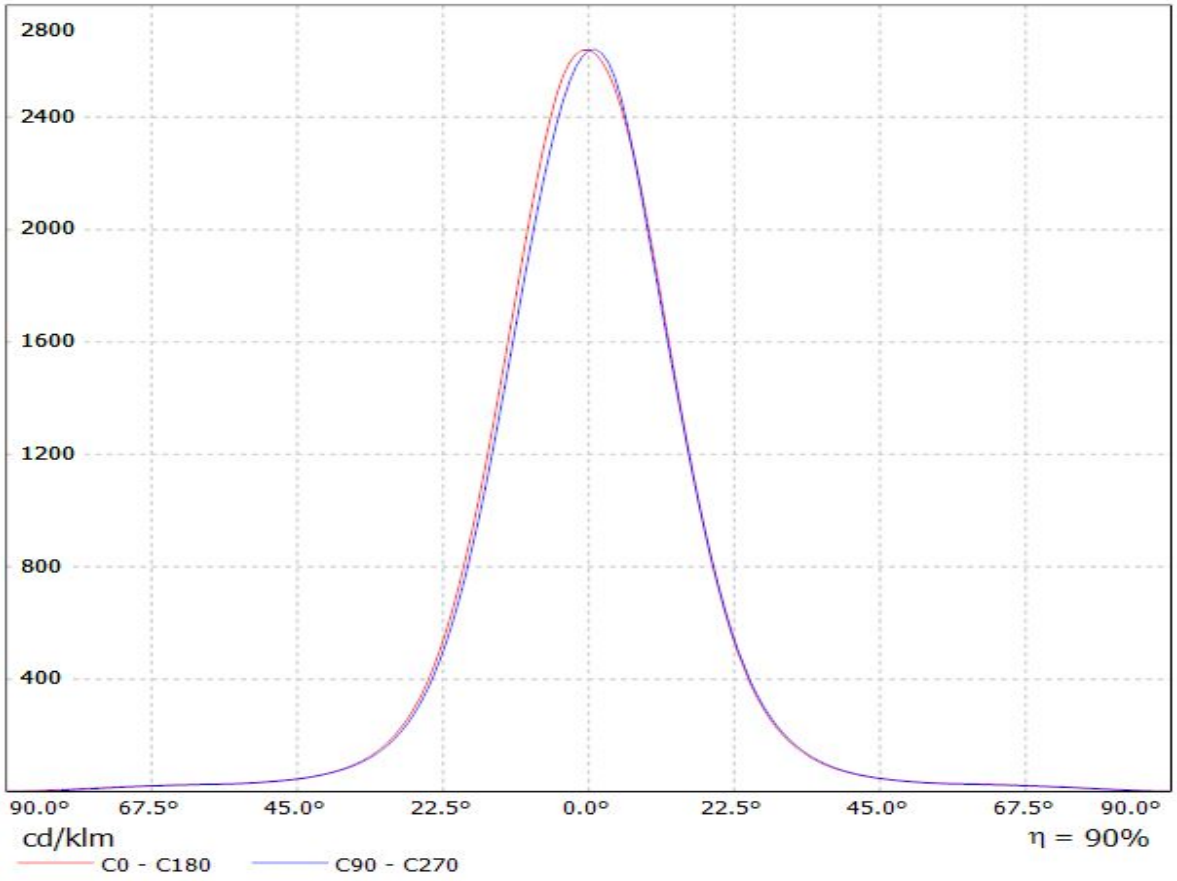
Luminaire: LEDiL Oy C12608_VIRPI-M_(SQ-EC) Eff.91.0%
Lamps: 1 x SQ-EC_5x5 (2043.47lm@250mA)



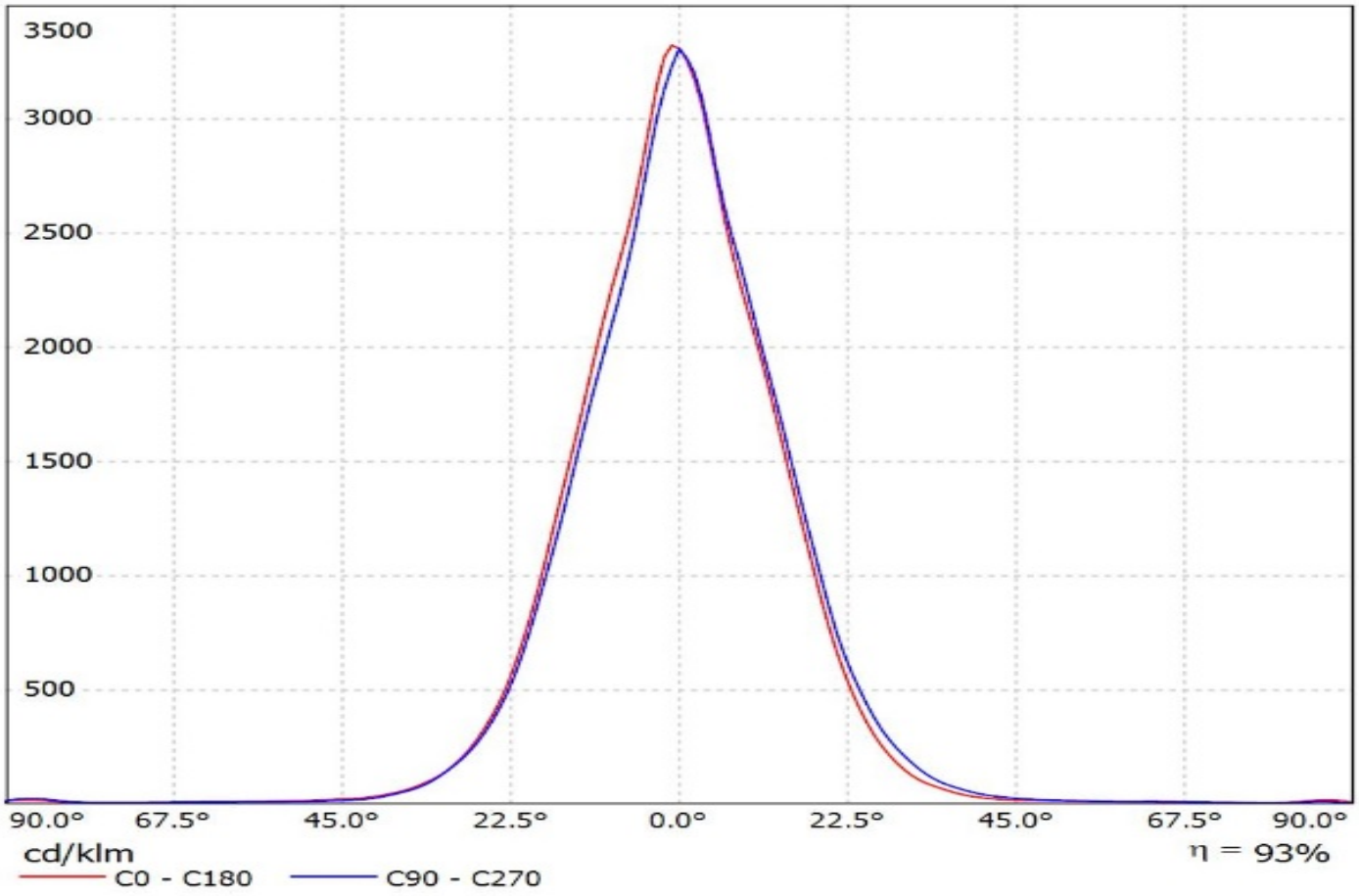
Luminaire: LEDiL Oy C12608_VIRPI-M_(DURIS-S5)
Lamps: 1 x OSRAM_DURIS-S5_5x5_(GW_PSLLS1.EC-HPHR-5L7N-1)_160.476lm@80mA_P=1.10163W_I=80.2mA



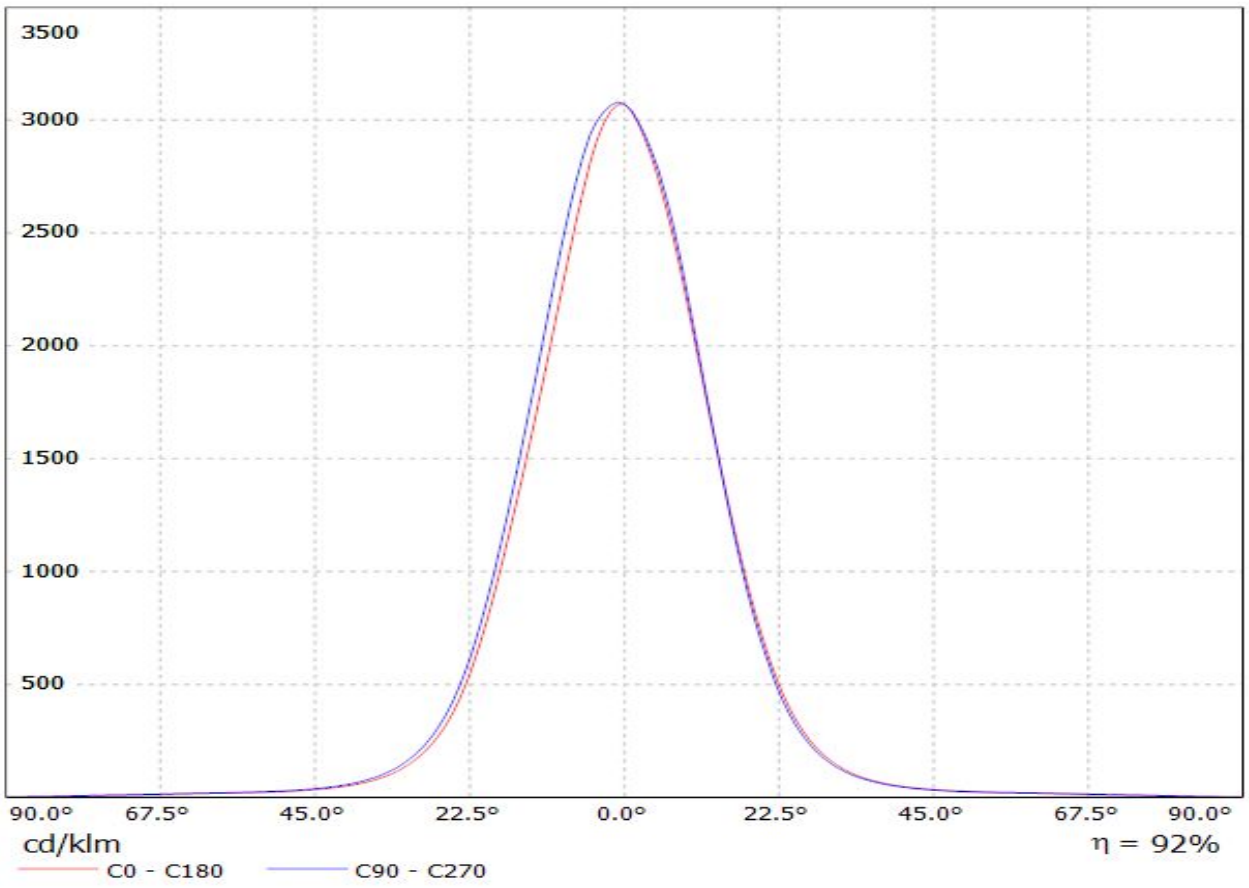
Luminaire: LEDiL Oy C12608_VIRPI-M_(DURIS_P5)
Lamps: 1 x OSRAM_DURIS_P5_5x5_(GW_DASPA1.EC-HPHR-5R8T-1)_163.795lm@100mA_P=1.37895W_I=100.2mA



Luminaire: Ledil Oy C12608_VIRPI-M_(Osram_Oslon_Square_Gen3)_SIMULATED
Lamps: 1 x Osram Oslon Square Gen 3 (GW CSSRM2.PM)

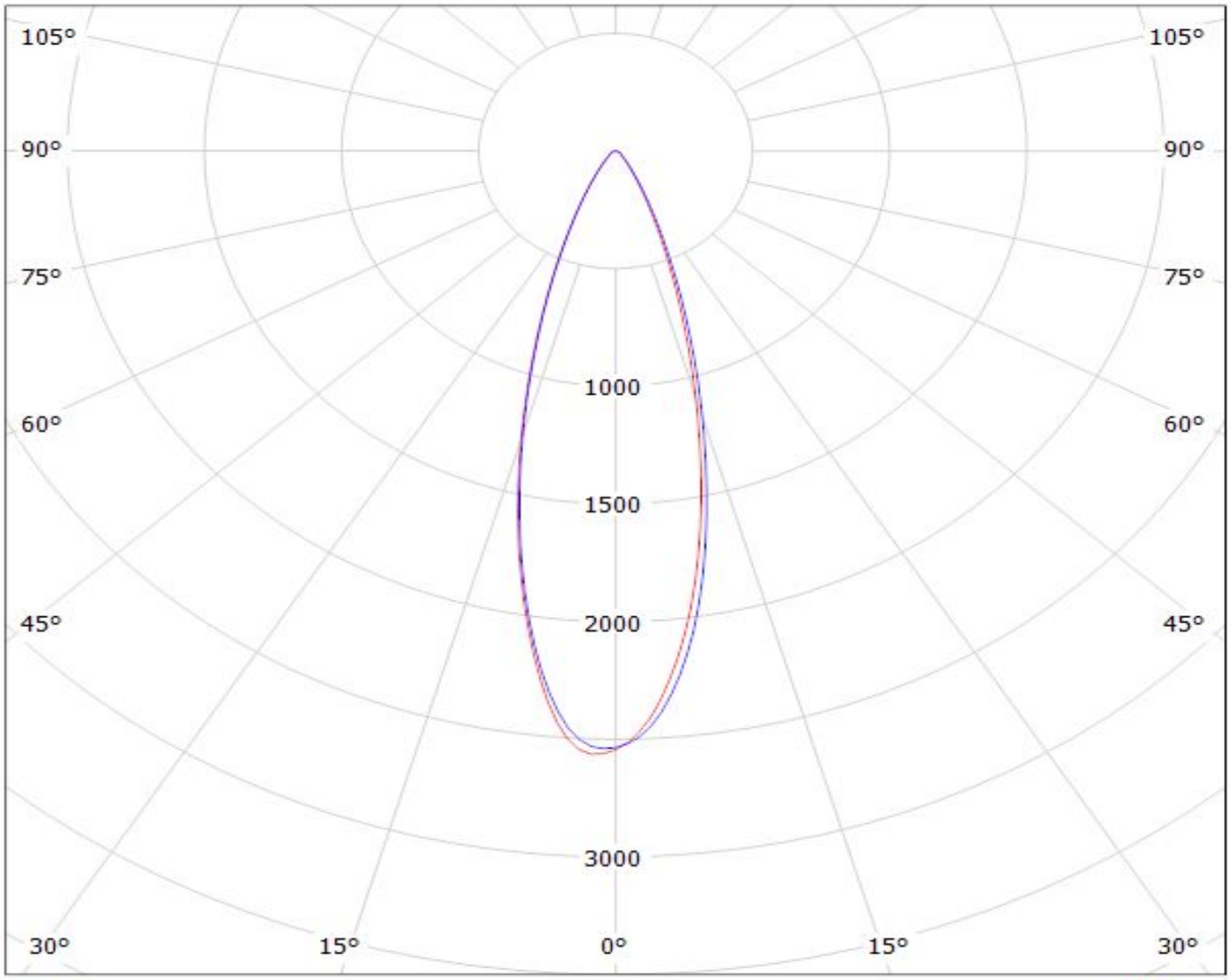


Luminaire: LEDiL Oy C12608_VIRPI-M_(LM231B)
Lamps: 1 x SAMSUNG_LM231B_5X5_121.687lm@65mA_P=0.886133W_I=65,2mA



LEDiL Oy C12608_VIRPI-M_(XP-G) Eff.91.9% / LDC (Polar)

Luminaire: LEDiL Oy C12608_VIRPI-M_(XP-G) Eff.91.9%
Lamps: 1 x XP-G_5x5 (1544.25lm@250mA)



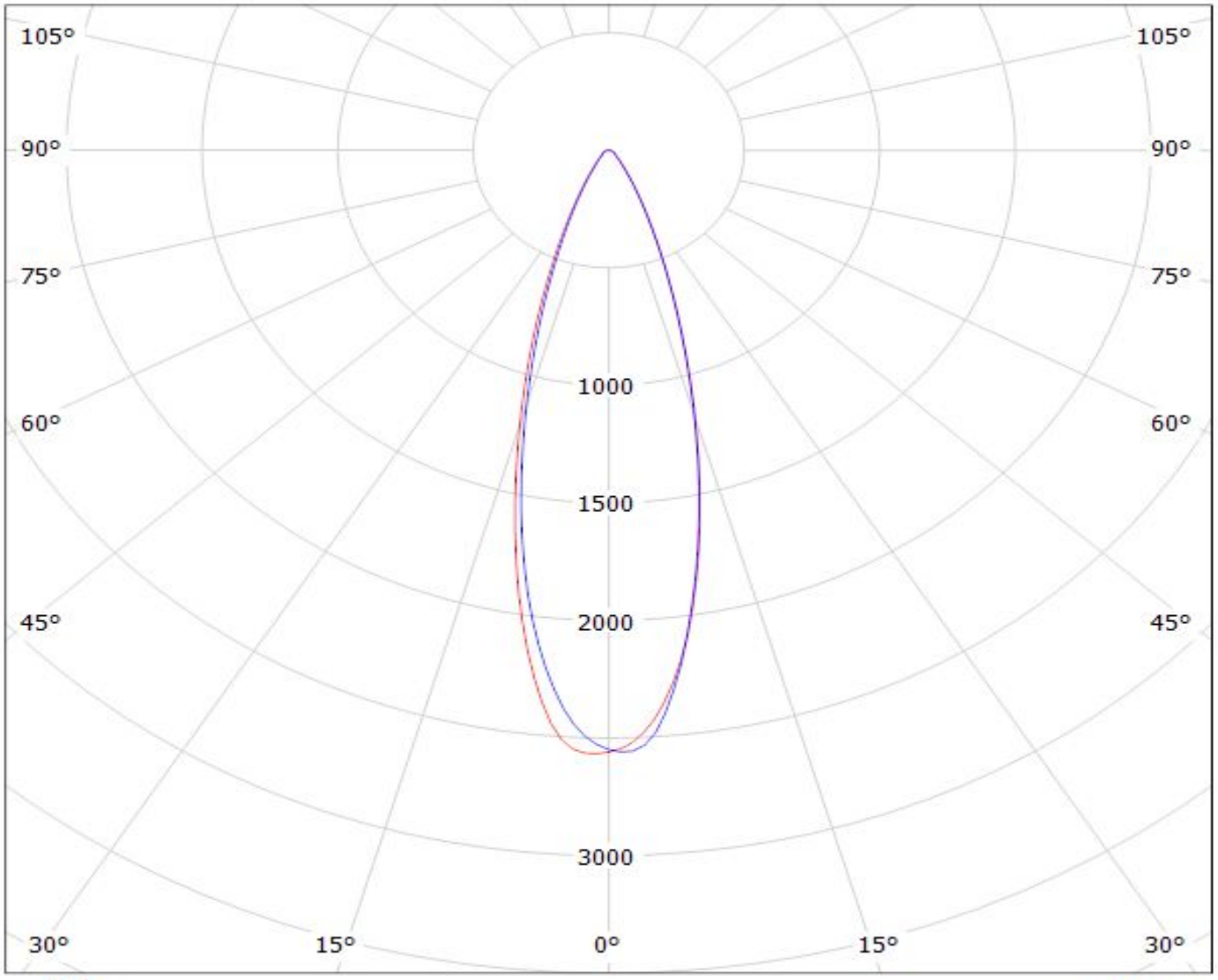
cd/klm

η = 92%

C0 - C180 C90 - C270

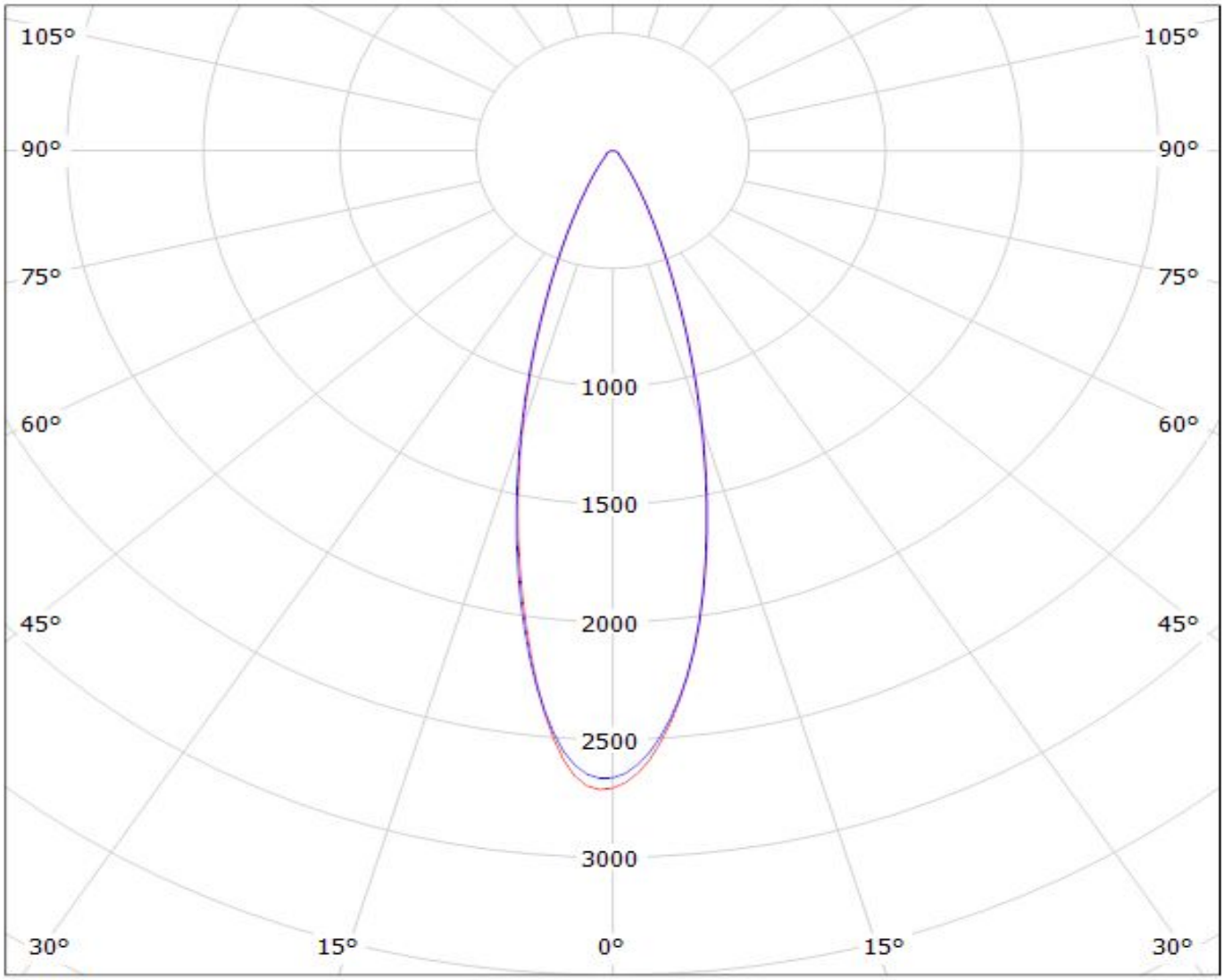
LEDiL Oy C12608_VIRPI-M_(XT-E) Eff.91.0% / LDC (Polar)

Luminaire: LEDiL Oy C12608_VIRPI-M_(XT-E) Eff.91.0%
Lamps: 1 x XT-E_5x5 (2049.85lm@250mA)



LEDiL Oy C12608_VIRPI-M_(XB-D) Eff.92.1% / LDC (Polar)

Luminaire: LEDiL Oy C12608_VIRPI-M_(XB-D) Eff.92.1%
Lamps: 1 x XB-D_5x5 (1878.23lm@250mA)



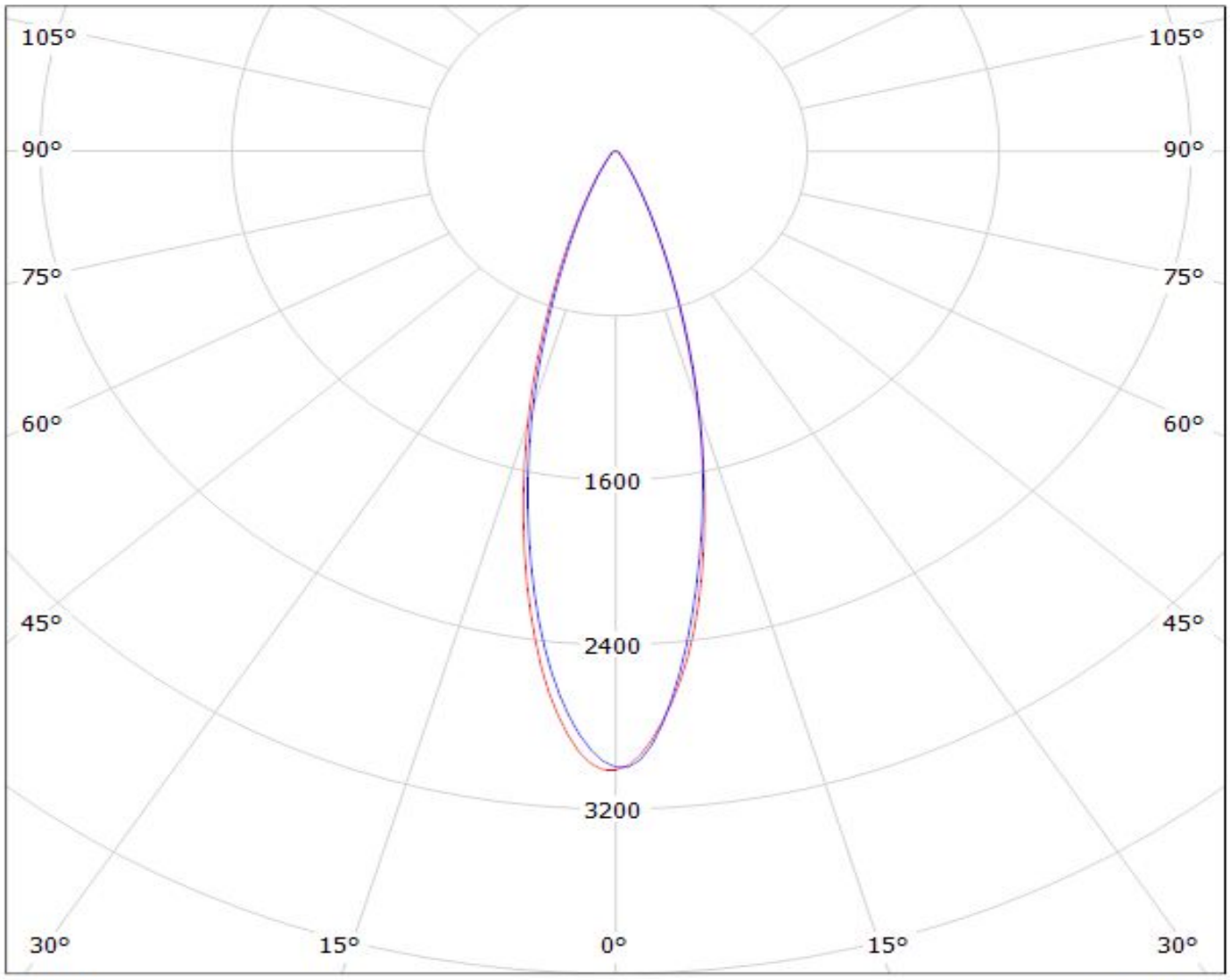
cd/klm

η = 92%

C0 - C180 C90 - C270

LEDiL Oy C12608_VIRPI-M_(XP-E2) Eff.91.2% / LDC (Polar)

Luminaire: LEDiL Oy C12608_VIRPI-M_(XP-E2) Eff.91.2%
Lamps: 1 x XP-E2_x25 (2039.65lm@250mA)



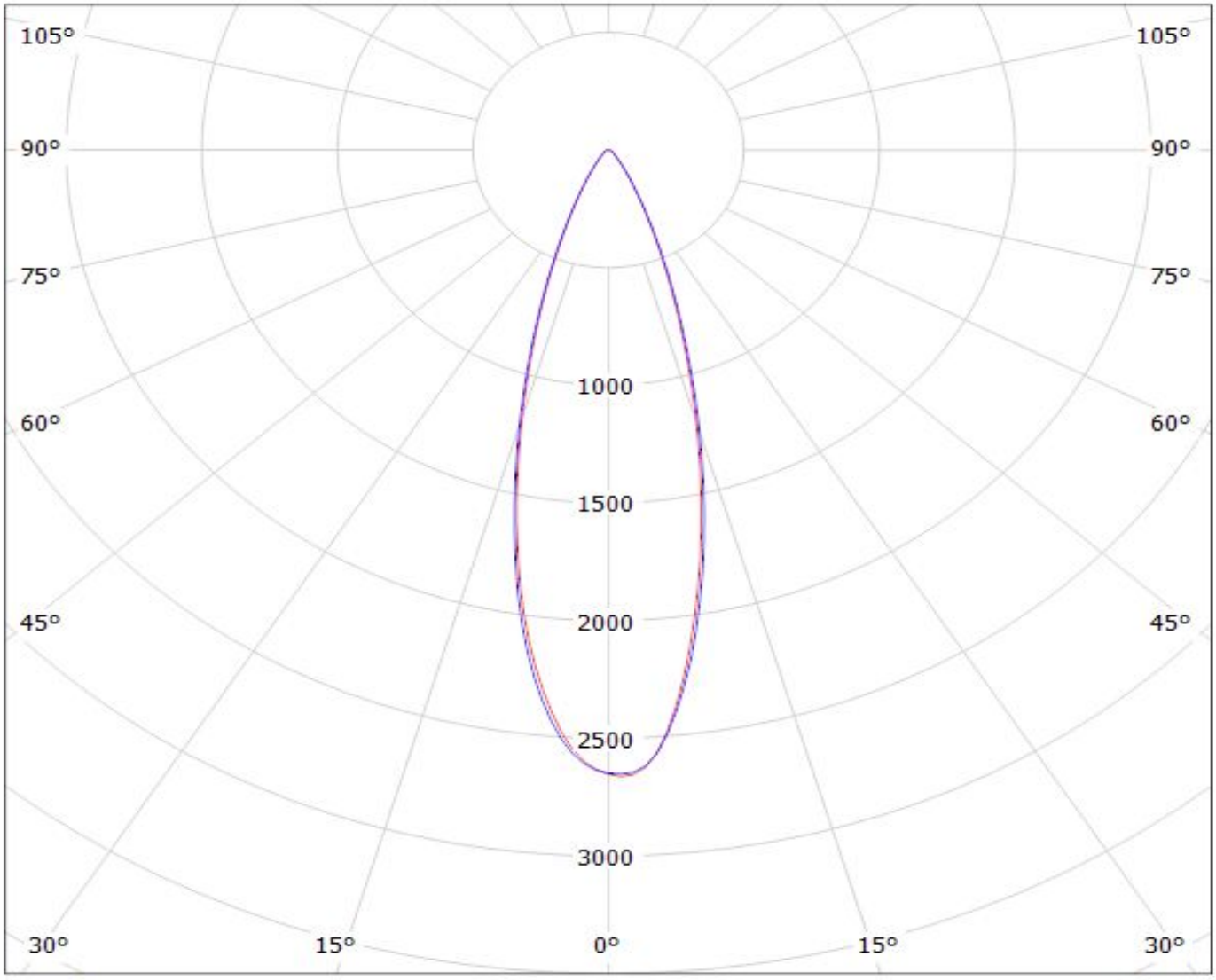
cd/klm

η = 91%

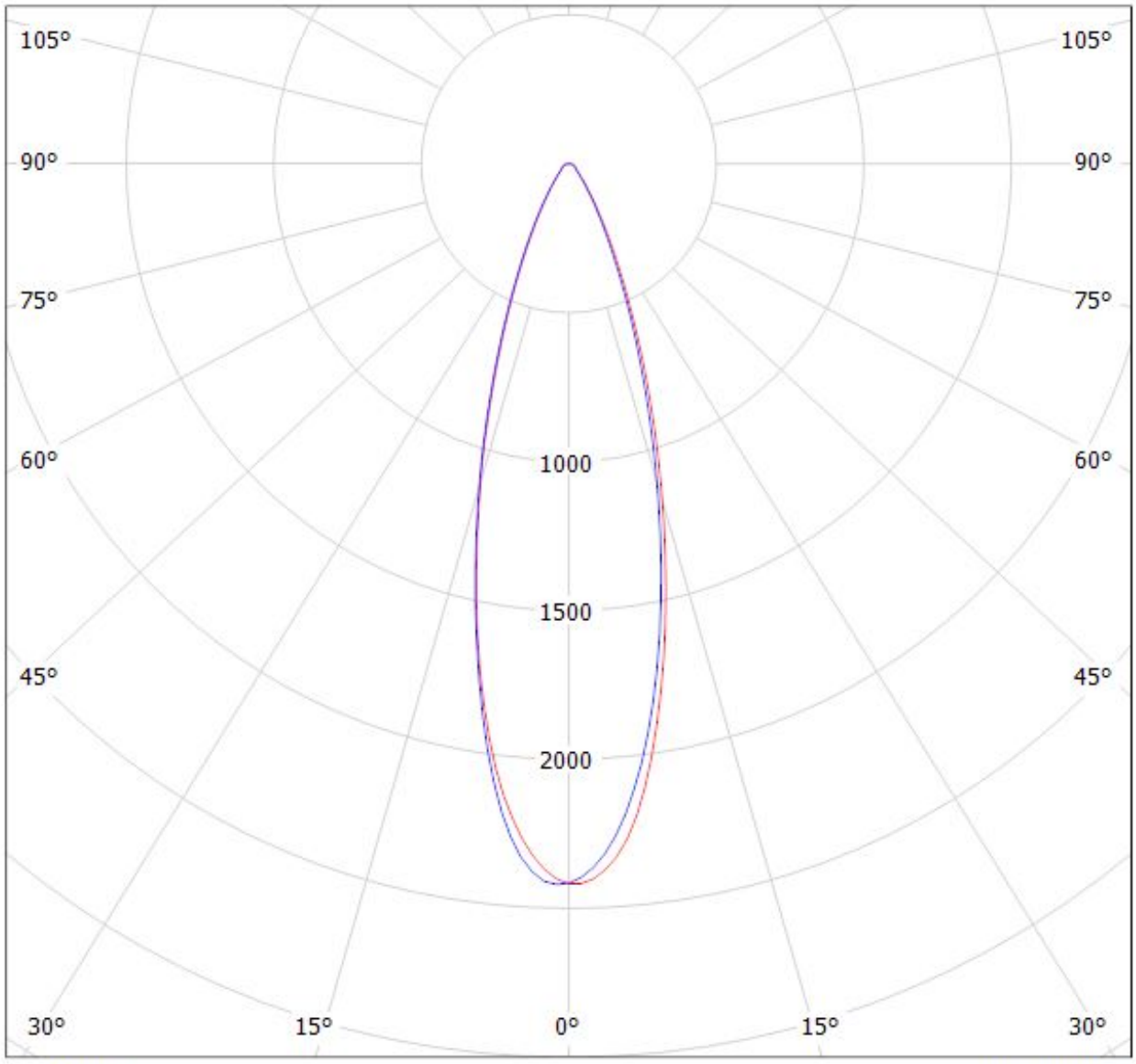
C0 - C180 C90 - C270

LEDiL Oy C12608_VIRPI-M_(XP-G2) Eff.91.1% / LDC (Polar)

Luminaire: LEDiL Oy C12608_VIRPI-M_(XP-G2) Eff.91.1%
Lamps: 1 x XP-G2_x25 (2535.22lm@250mA)



Luminaire: LEDiL Oy C12608_VIRPI-M_(XH-B)
Lamps: 1 x CREE_XH-B_136.467lm@65mA_P=0.911626_I=65.2mA

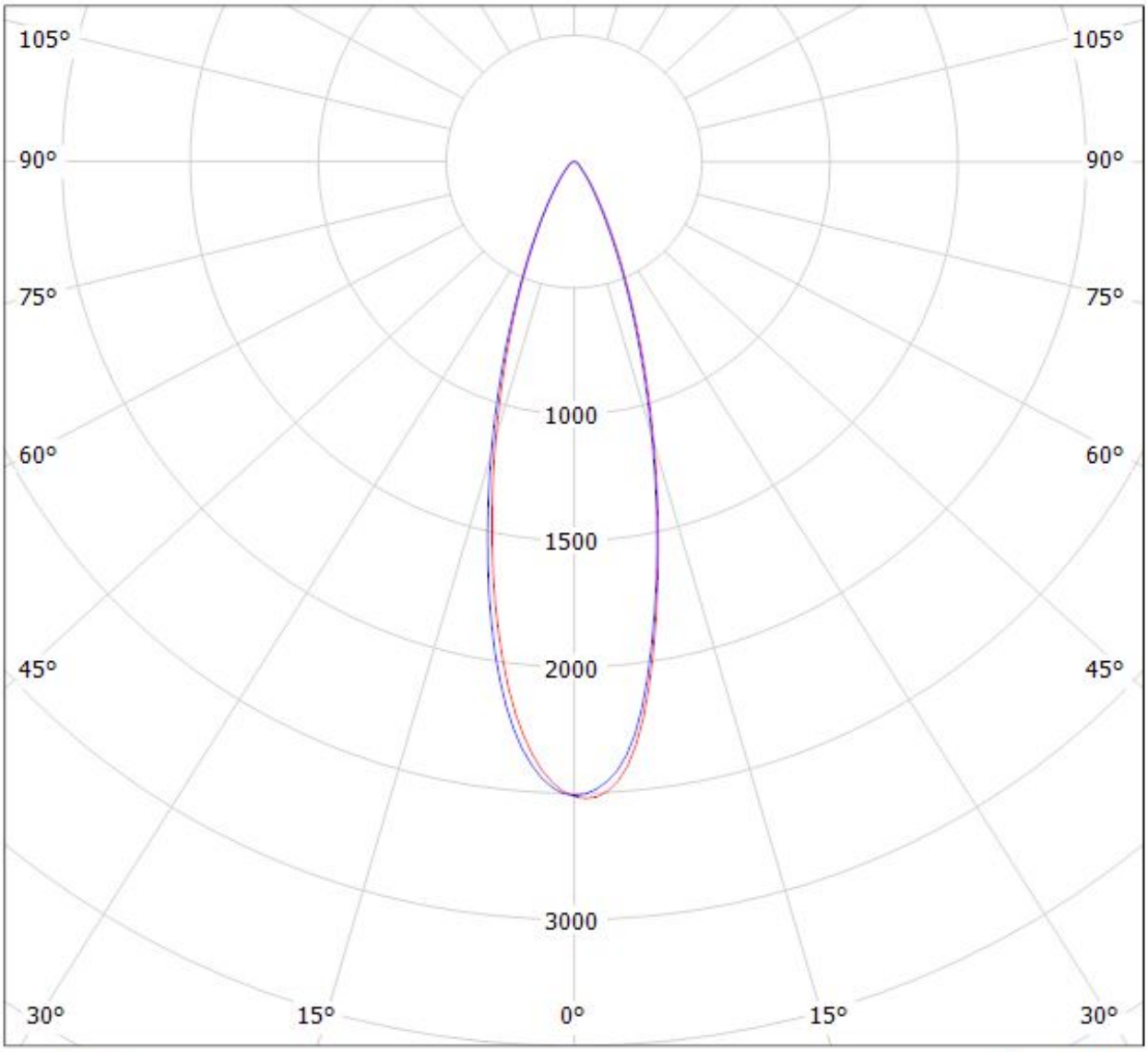


cd/klm

η = 90%

C0 - C180 C90 - C270

Luminaire: LEDiL Oy C12608_VIRPI-M_(ML-E)
Lamps: 1 x CREE_ML-E_5x5_(MLEAWT-U1-7A3-K3-0-00003)_178.608lm@150mA_P=2.1053W_I=150.1mA

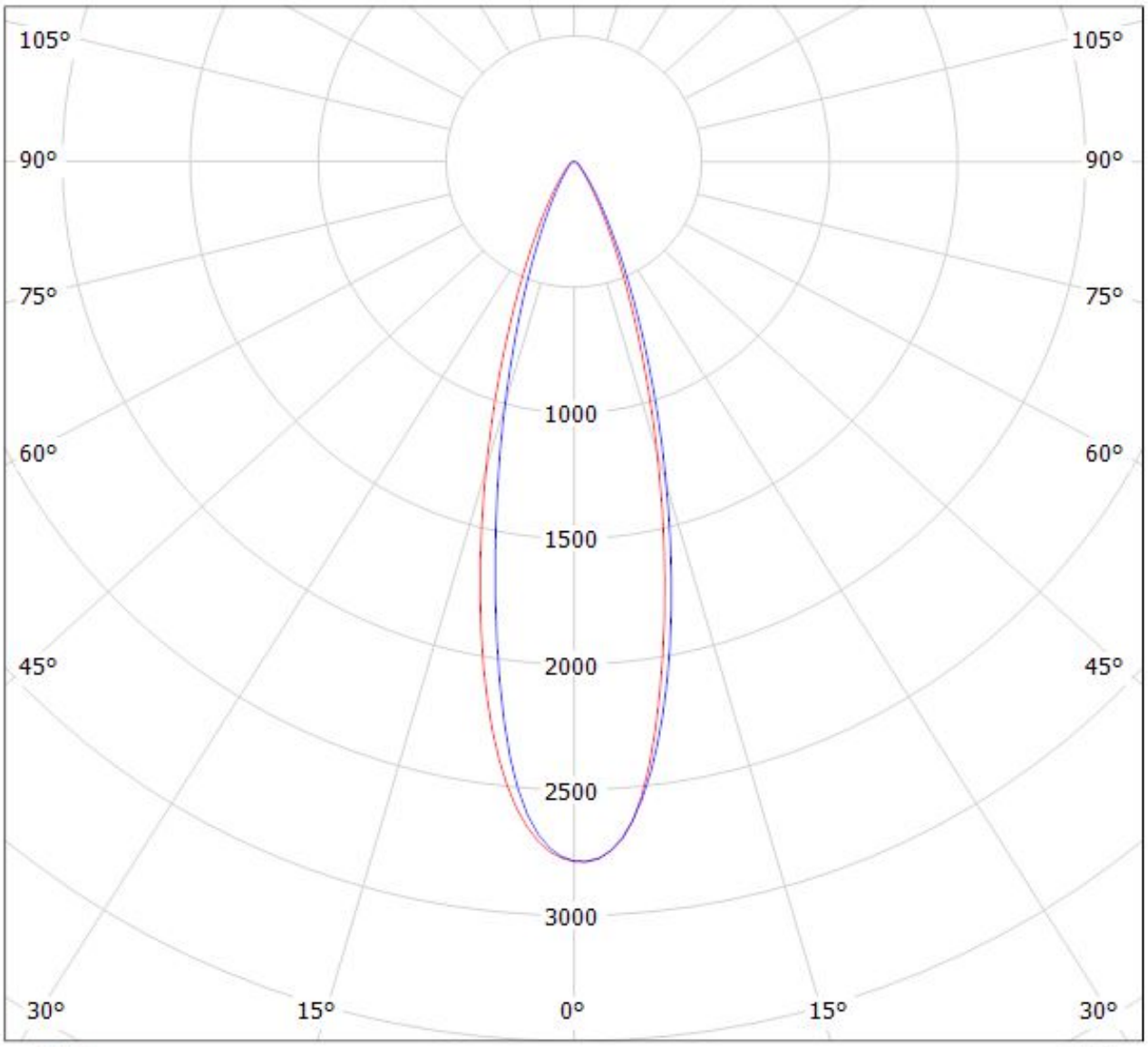


cd/klm

η = 91%

C0 - C180 C90 - C270

Luminaire: LEDiL Oy C12608_VIRPI-M_(LG_3030)
Lamps: 1 x LG_3030_3000k_522.247lm@150mA_P=4.12515W_I=150mA



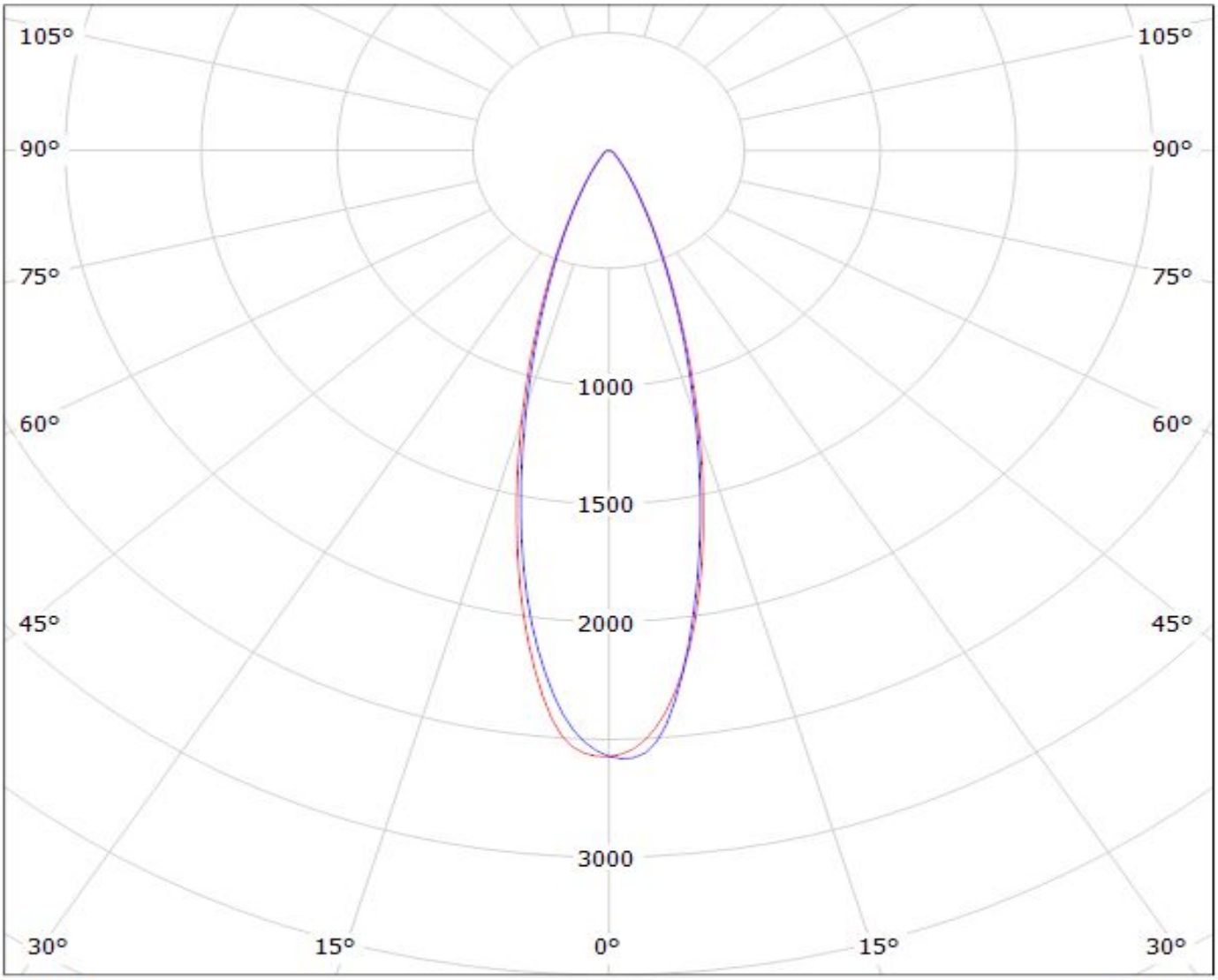
cd/klm

η = 91%

C0 - C180 C90 - C270

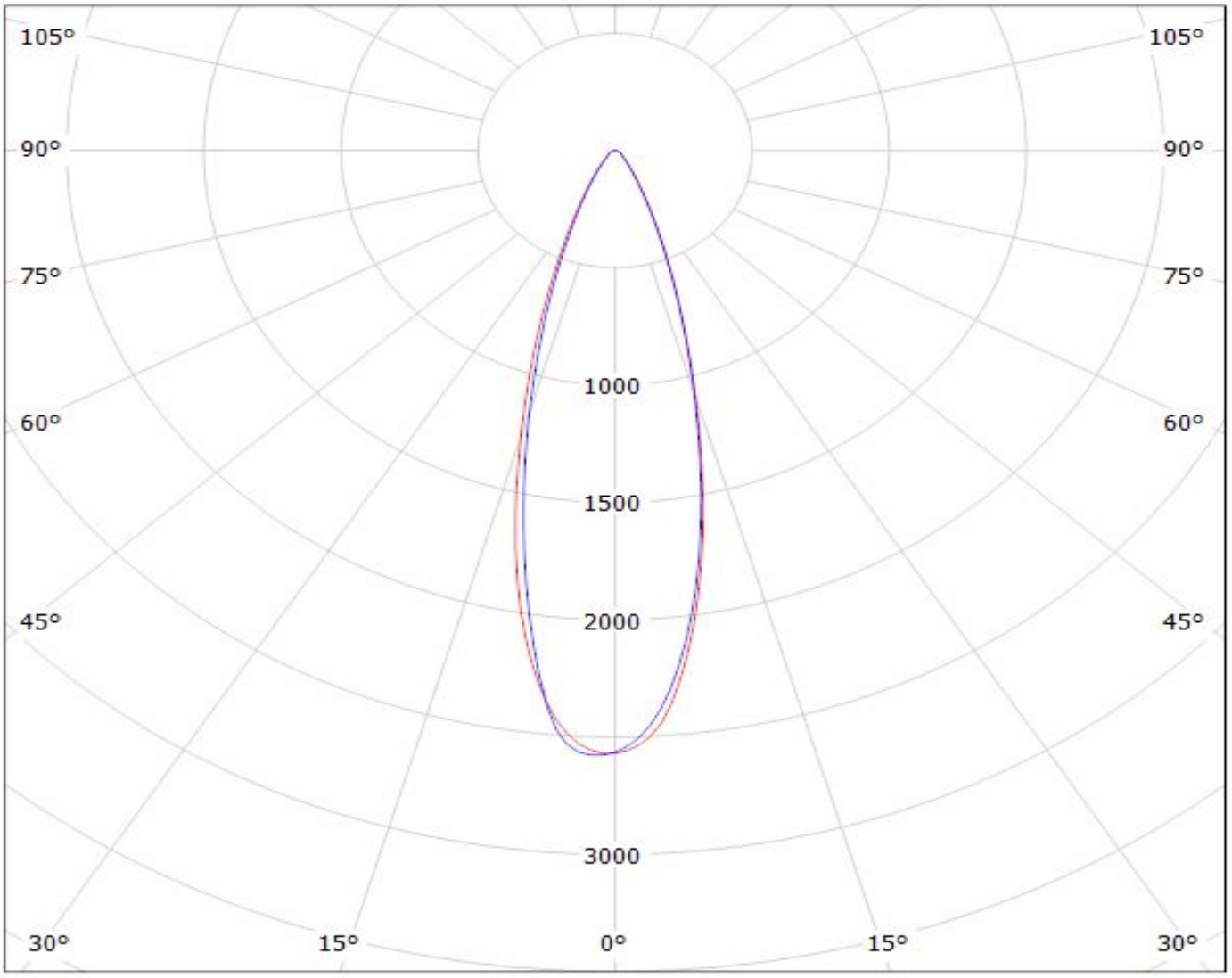
LEDiL Oy C12608_VIRPI-M_(REBEL_ES) Eff.90.6% / LDC (Polar)

Luminaire: LEDiL Oy C12608_VIRPI-M_(REBEL_ES) Eff.90.6%
Lamps: 1 x REBEL_ES_5x5 (1766.64lm@250mA)



LEDiL Oy C12608_VIRPI-M_(NVS19) Eff.90.1% / LDC (Polar)

Luminaire: LEDiL Oy C12608_VIRPI-M_(NVS19) Eff.90.1%
Lamps: 1 x NVS19_5x5 (1782.78lm@250mA)

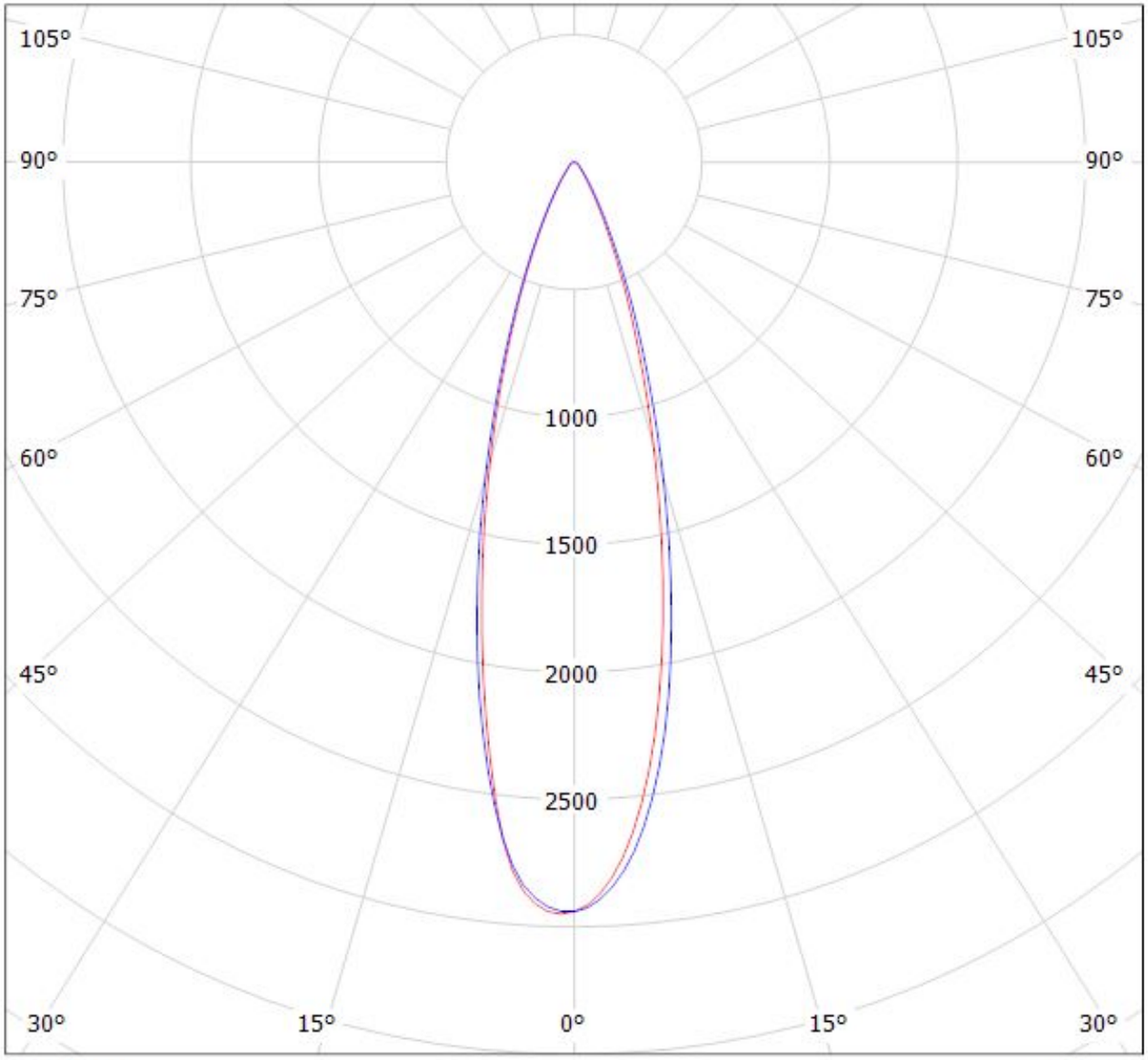


cd/klm

η = 90%

C0 - C180 C90 - C270

Luminaire: LEDiL Oy C12608_VIRPI-M_(NF2x757A)
Lamps: 1 x Nichia_NF2x757A_(NF2W757ARTV1)_1037.67lm@250mA P=6.97966W I=249.8mA

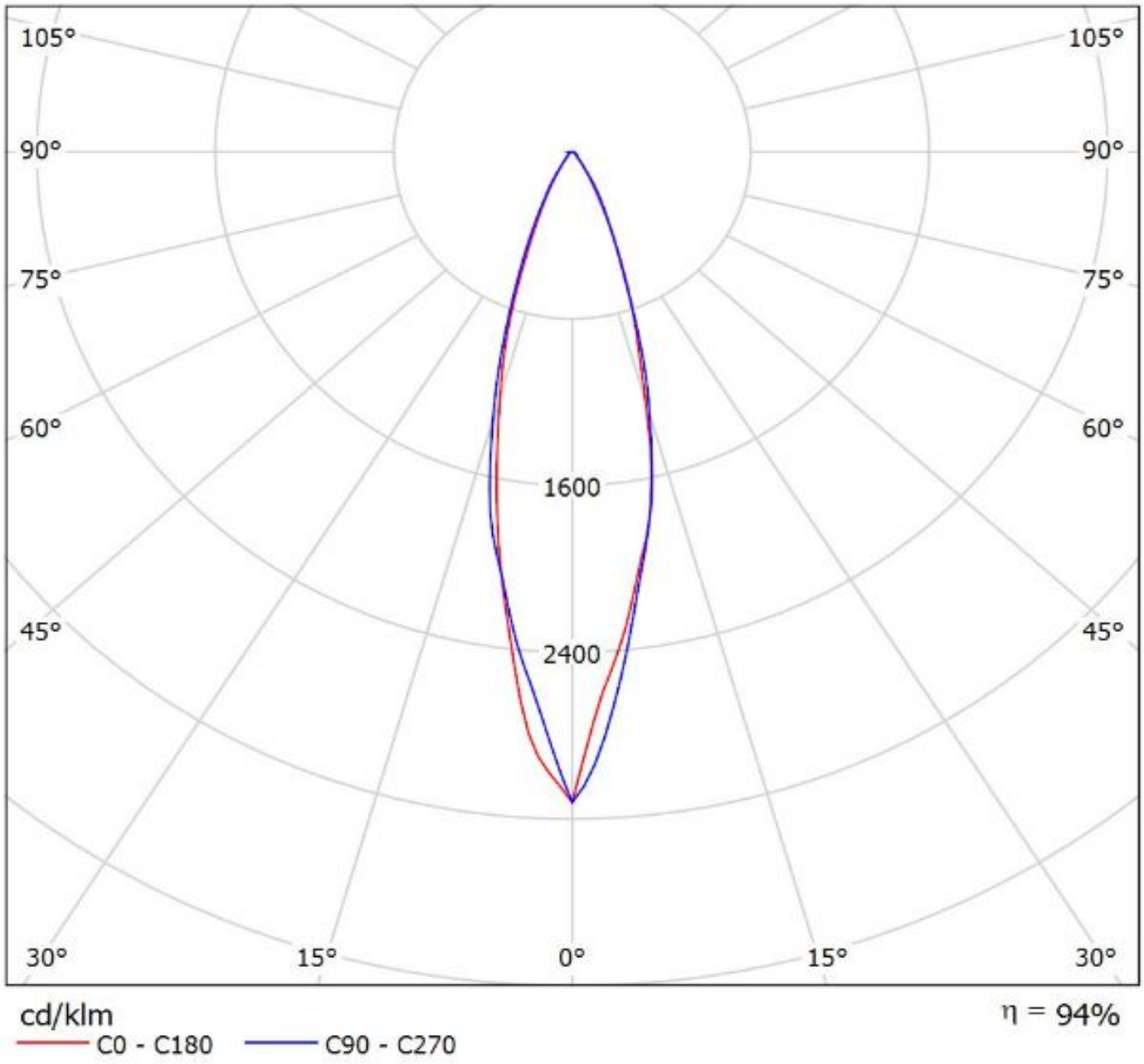


cd/klm

η = 91%

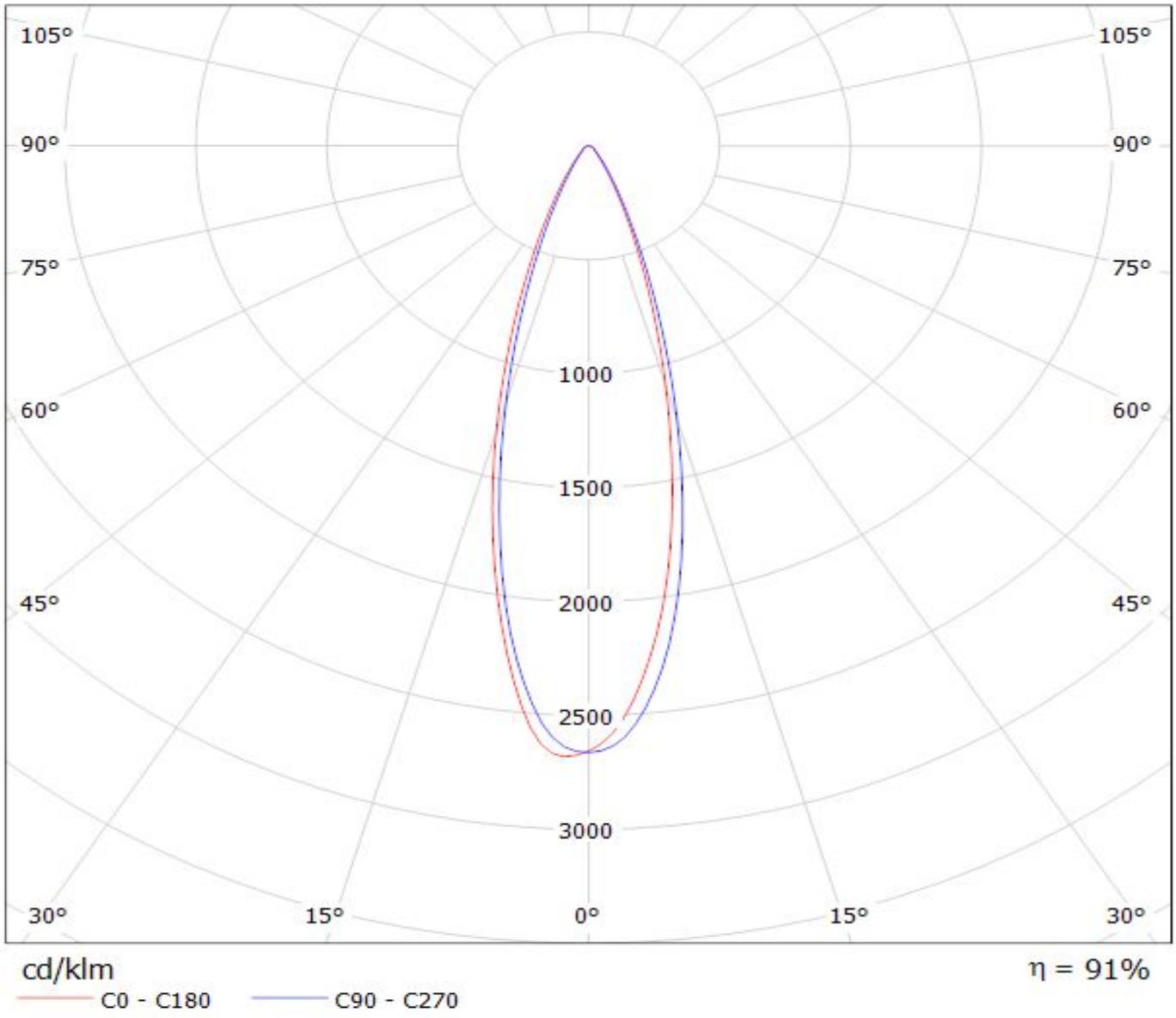
C0 - C180 C90 - C270

Luminaire: Ledil Oy C12608_VIRPI-M_NICHIA_NVSW219C_SIMULATED
Lamps: 1 x NICHIA NVSW219C

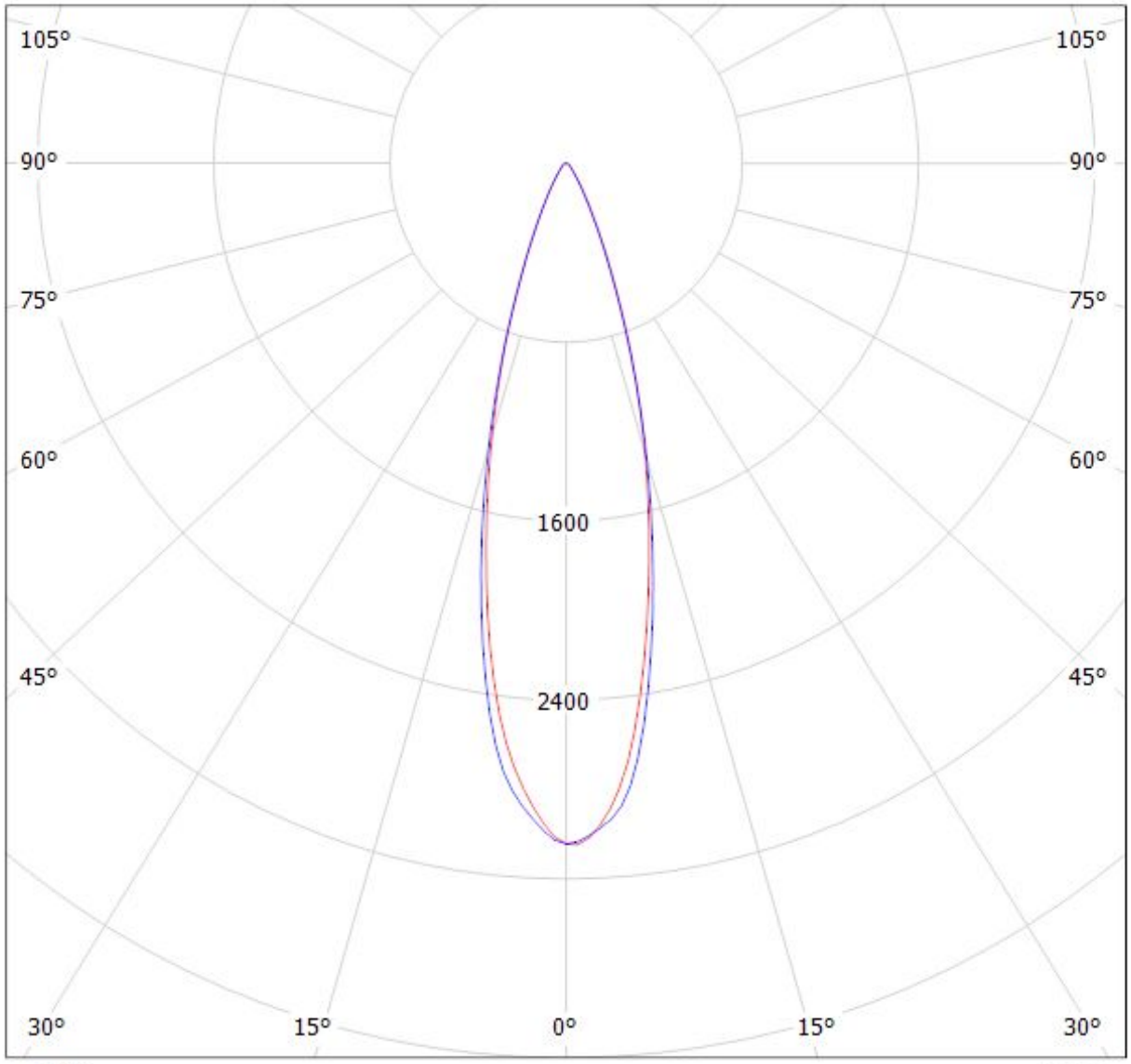


LEDiL Oy C12608_VIRPI-M_(SQ-EC) Eff.91.0% / LDC (Polar)

Luminaire: LEDiL Oy C12608_VIRPI-M_(SQ-EC) Eff.91.0%
Lamps: 1 x SQ-EC_5x5 (2043.47lm@250mA)



Luminaire: LEDiL Oy C12608_VIRPI-M_(DURIS-S5)
Lamps: 1 x OSRAM_DURIS-S5_5x5_(GW_PSLLS1.EC-HPHR-5L7N-1)_160.476lm@80mA_P=1.10163W_I=80.2mA

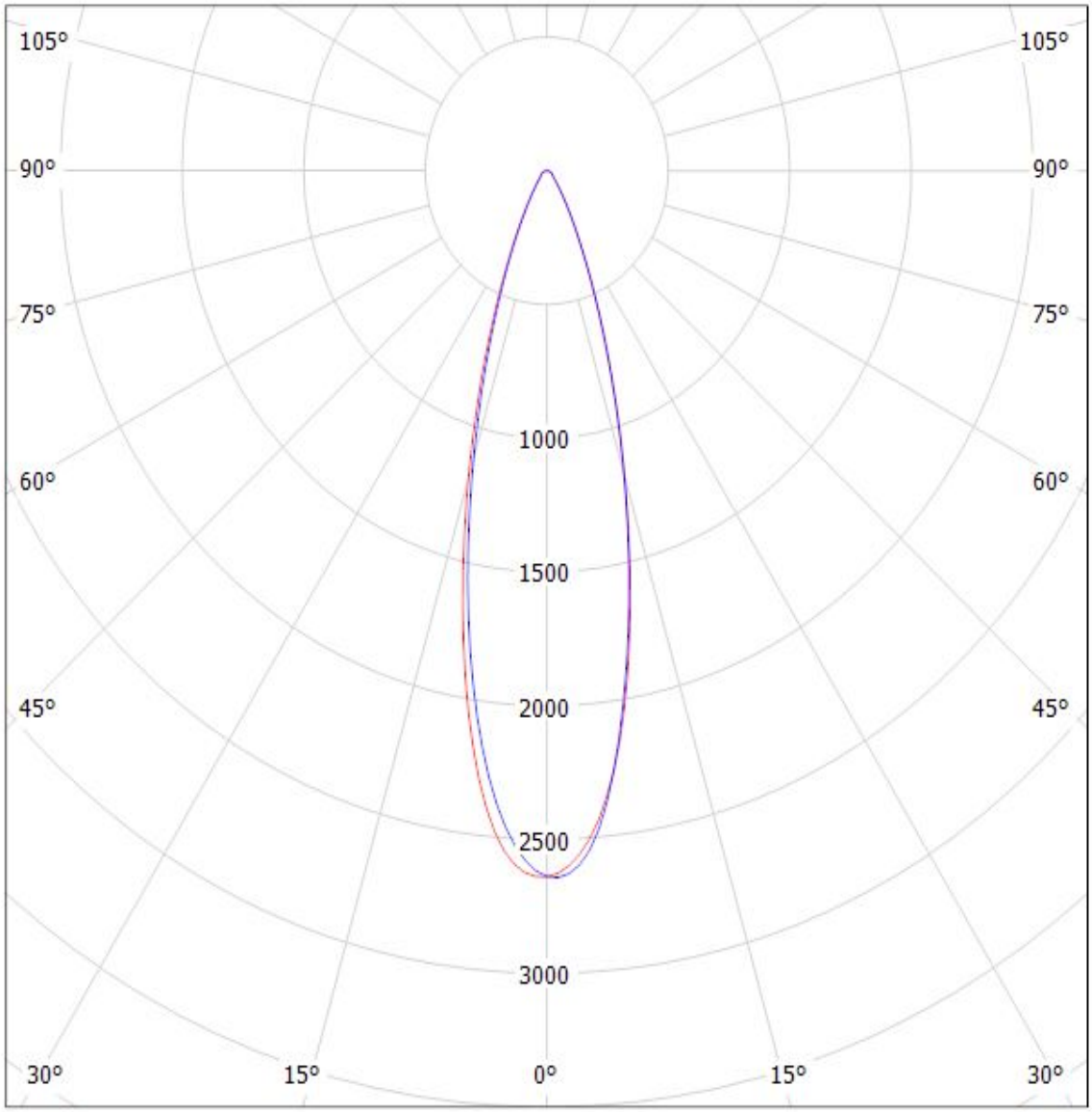


cd/klm

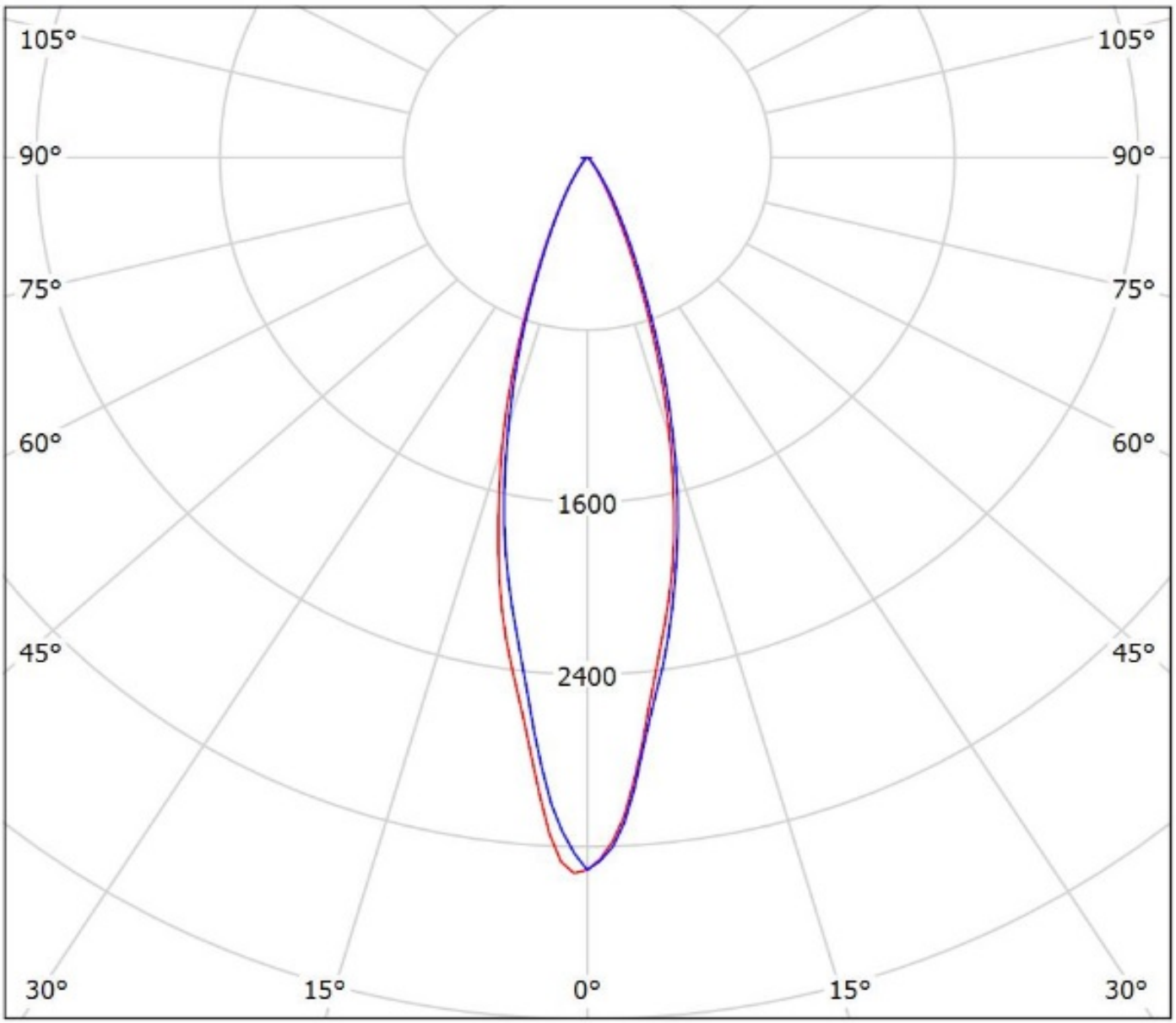
η = 92%

C0 - C180 C90 - C270

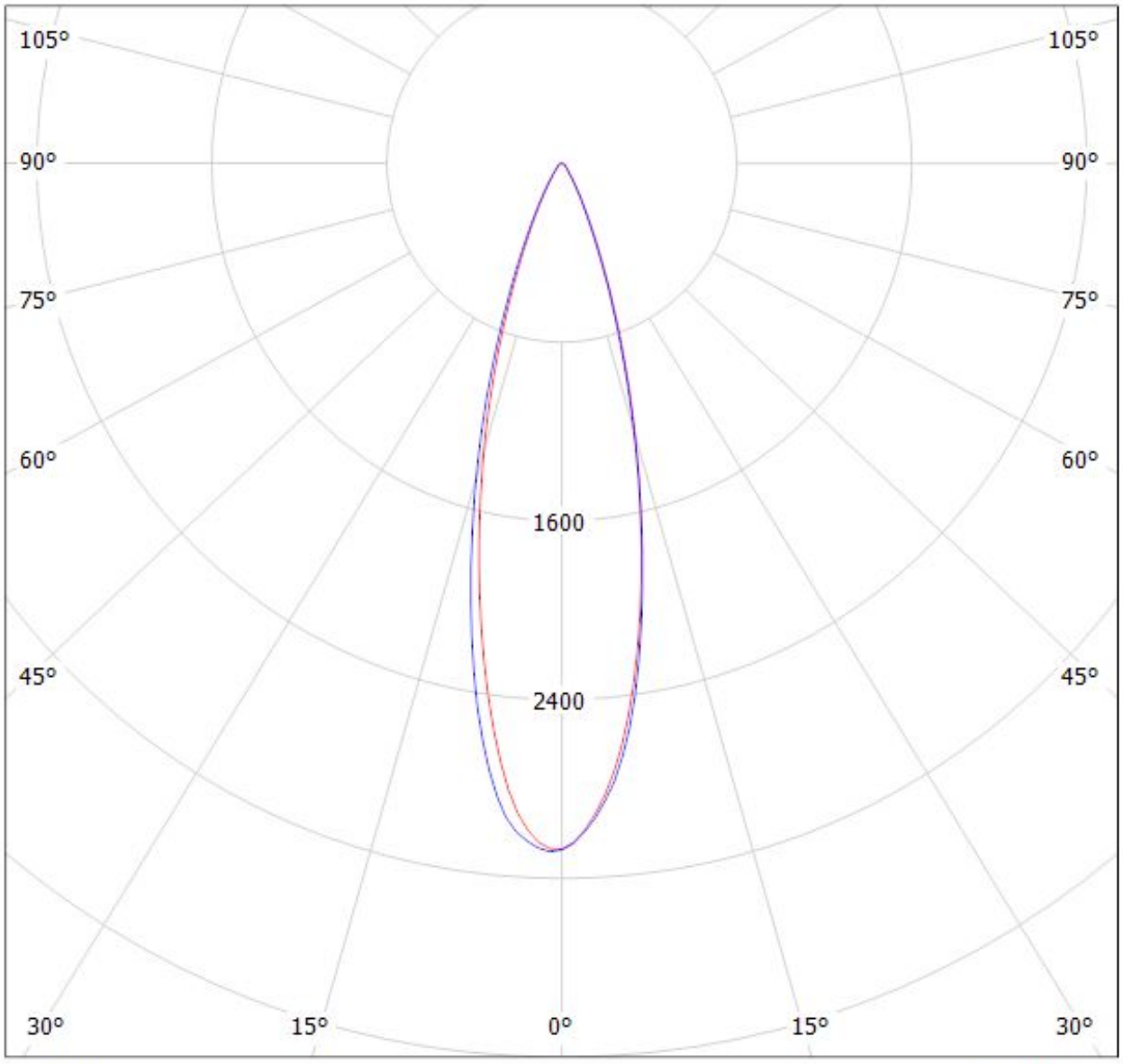
Luminaire: LEDiL Oy C12608_VIRPI-M_(DURIS_P5)
Lamps: 1 x OSRAM_DURIS_P5_5x5_(GW_DASPA1.EC-HPHR-5R8T-1)_163.795lm@100mA_P=1.37895W_I=100.2mA



Luminaire: Ledil Oy C12608_VIRPI-M_(Osram_Oslon_Square_Gen3)_SIMULATED
Lamps: 1 x Osram Oslon Square Gen 3 (GW CSSRM2.PM)



Luminaire: LEDiL Oy C12608_VIRPI-M_(LM231B)
Lamps: 1 x SAMSUNG_LM231B_5X5_121.687lm@65mA_P=0.886133W_I=65,2mA



cd/klm

η = 92%

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.

GENERAL INFORMATION

- Product series especially designed & optimized for series of LEDs.
- Special care taken to make light distribution as uniform as possible.

Note! Due to use of high power COB's with this product, special attention to proper thermal design is highly recommended. LEDiL has no liability for direct, indirect or consecutive damages arising from the LEDiL products being used outside of the recommended temperature range.