

DETAILS

Product Number	C13529_VERONICA-O
Family	Veronica
Type	Lens
Color	clear
Diameter	26 mm
Height	12,2 mm
Style	round
Optic Material	PMMA
Holder Material	
Fastening	pin, glue
Status	production ready
ROHS Compliant	Yes
Date Updated	28/10/2013



OPTICAL PROPERTIES

LED	Viewing Angle	Light Beam	Efficiency	cd/lm	Connector
XP-G2	55+13 deg	Oval	84 %	3.200	-
XM-L	54 + 18 deg	Oval	83 %	2.500	-
XT-E	54 + 15 deg	Oval	81 %	2.900	-
XP-E	54 + 11 deg	Oval	83 %	4.200	-
XP-E2	54 + 11 deg	Oval	84 %	4.200	-
XM-L2	54 + 18 deg	Oval	82 %	2.400	-
XP-G	55 + 13 deg	Oval	83 %	3.300	-
MK-R	48 + 28 deg	Oval	80 %	1.600	-
XHP35 HD	52+19 deg	Oval	80 %	2.260	-
XHP35 HI	53+16 deg	Oval	82 %	2.900	-
H35C0 (LEMWA33)	55 + 15 deg	Oval	81 %	3.000	-
LUXEON R	54 + 16 deg	Oval	81 %	2.800	-
LUXEON A	54 + 15 deg	Oval	82 %	2.900	-
LUXEON Rebel	54 + 14 deg	Oval	82 %	3.200	-
LUXEON Rebel ES	54 + 17 deg	Oval	81 %	2.700	-
LUXEON M/MX	49 + 28 deg	Oval	79 %	1.600	-
NVSxx19A	53 + 18 deg	Oval	79 %	2.500	-
NVSxx19B/NVSxx19C	54 + 17 deg	Oval	79 %	2.700	-
NCSxx19B	52+15 deg	Oval	80 %	2.970	-
NVSW3x9A	53+16 deg	Oval	80 %	2.500	-
Oslon Square EC	54 + 14 deg	Oval	81 %	3.000	-
Oslon SSL 150	54 + 11 deg	Oval	83 %	4.200	-
Oslon Square PC	54 + 15 deg	Oval	81 %	3.000	-
Duris P10	sim: 48+25	Oval	sim: 85 %	sim: 1.850	-
LH351Z	54+13 deg	Oval	83 %	3.300	-



PRODUCT DATASHEET

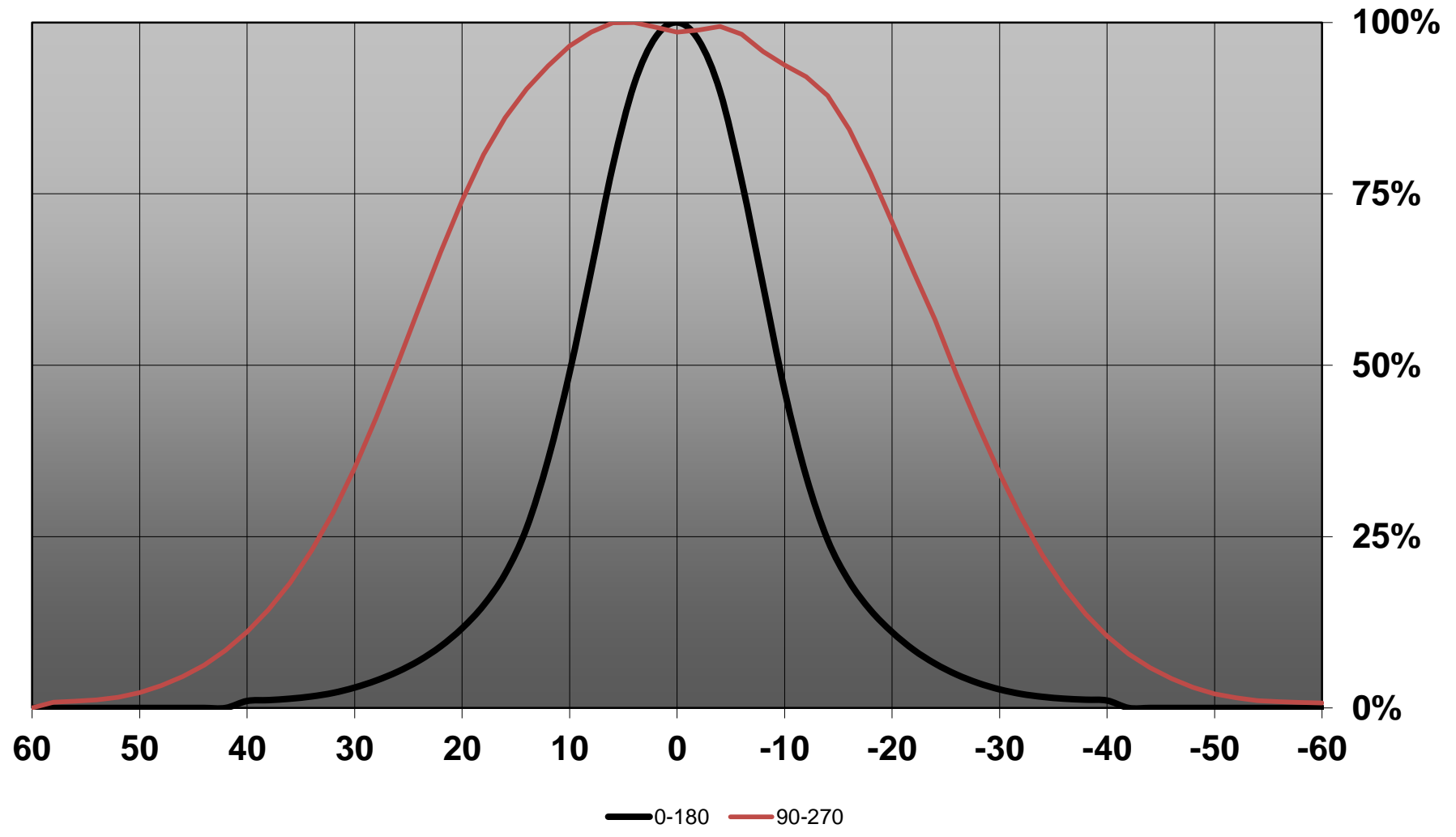
Veronica series

last update 28/10/2013

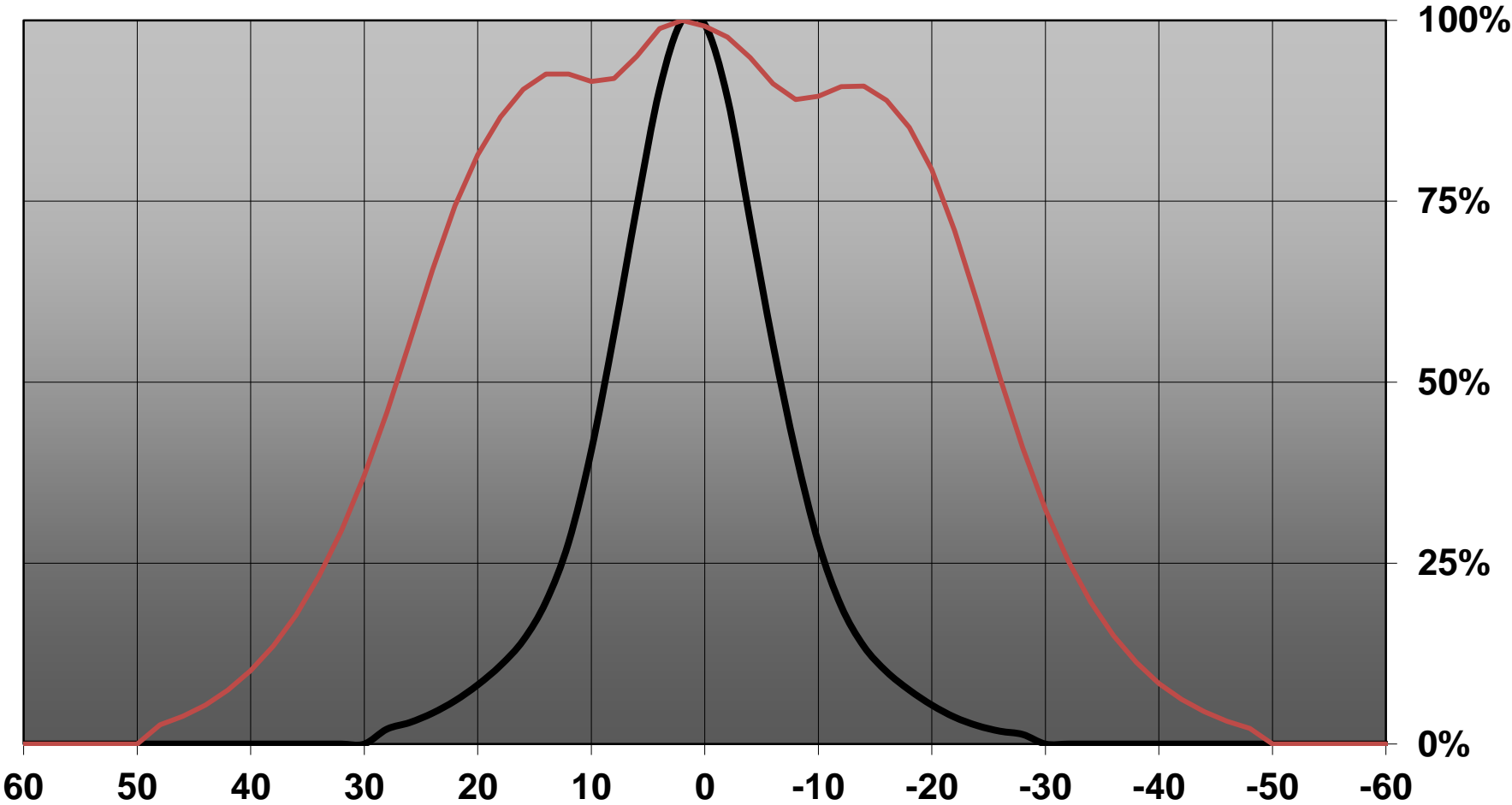
OPTICAL PROPERTIES

LED	Viewing Angle	Light Beam	Effi- ciency	cd/lm	Connector
LH351B	54+14 deg	Oval	84 %	2.800	-
Z5	54+13 deg	Oval	83 %	3.600	-
Z5M1/Z5M2	54+15 deg	Oval	83 %	3.100	-
Z8Y22P	52+17 deg	Oval	77 %	2.300	-

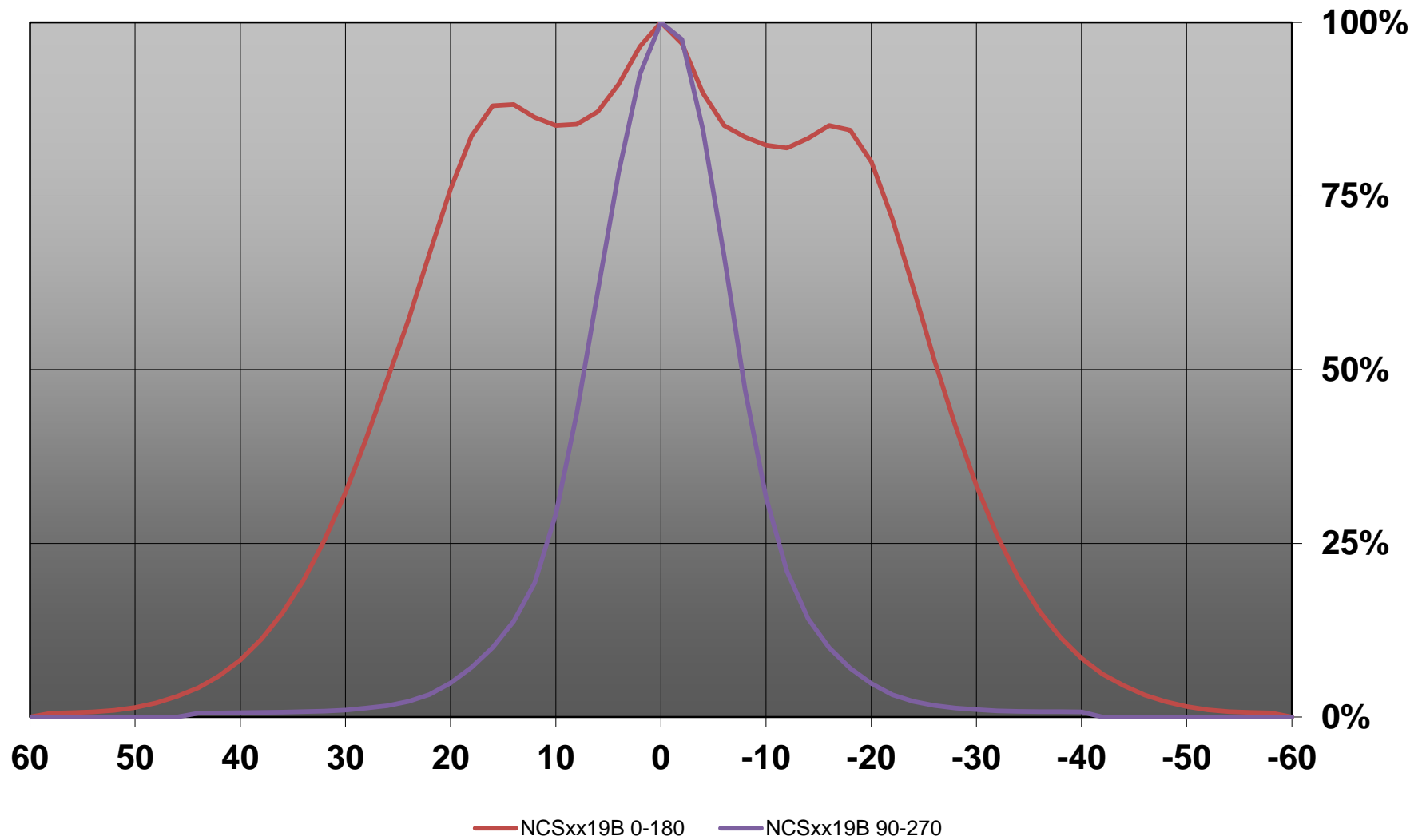
Relative intensity of C13529_VERONICA-O_(XHP35_HD)



Relative intensity of C13529_VERONICA-O_(XPH35_HI)



Relative intensity of C13529_VERONICA-O_(NCSxx19B)

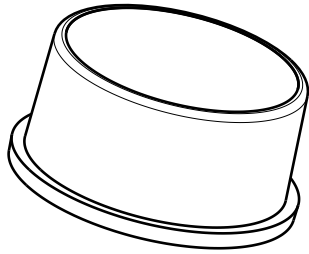


D

C

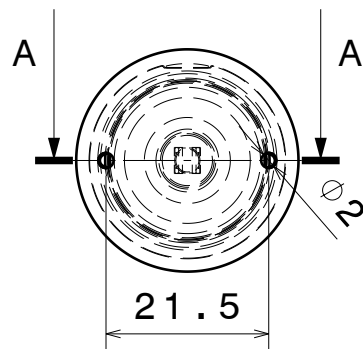
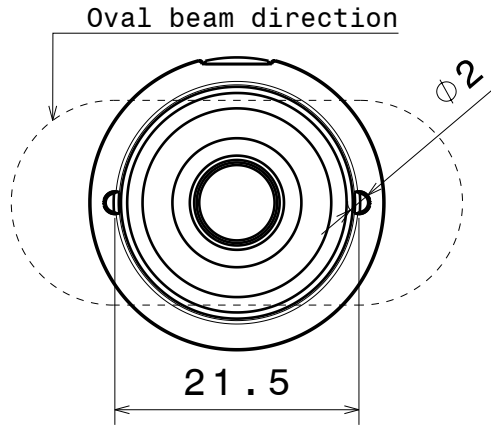
B

A

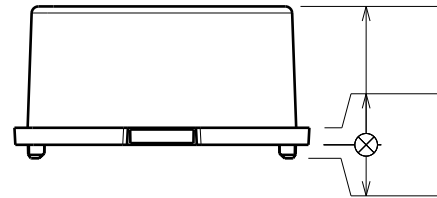


Isometric view

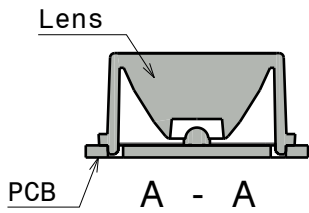
Bottom view



Front view

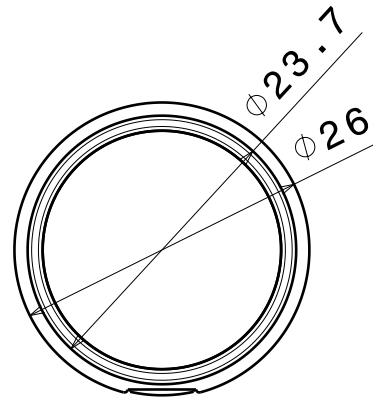


12.2
1.5
1.2



PCB suggestion

Top view



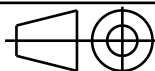
INDEX	PART NO	DESCRIPTION	MATERIAL	COLOUR
1	-	VERONICA	PMMA	

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

THIRD ANGLE PROJECTION:



DRAWING TITLE

VERONICA SERIES

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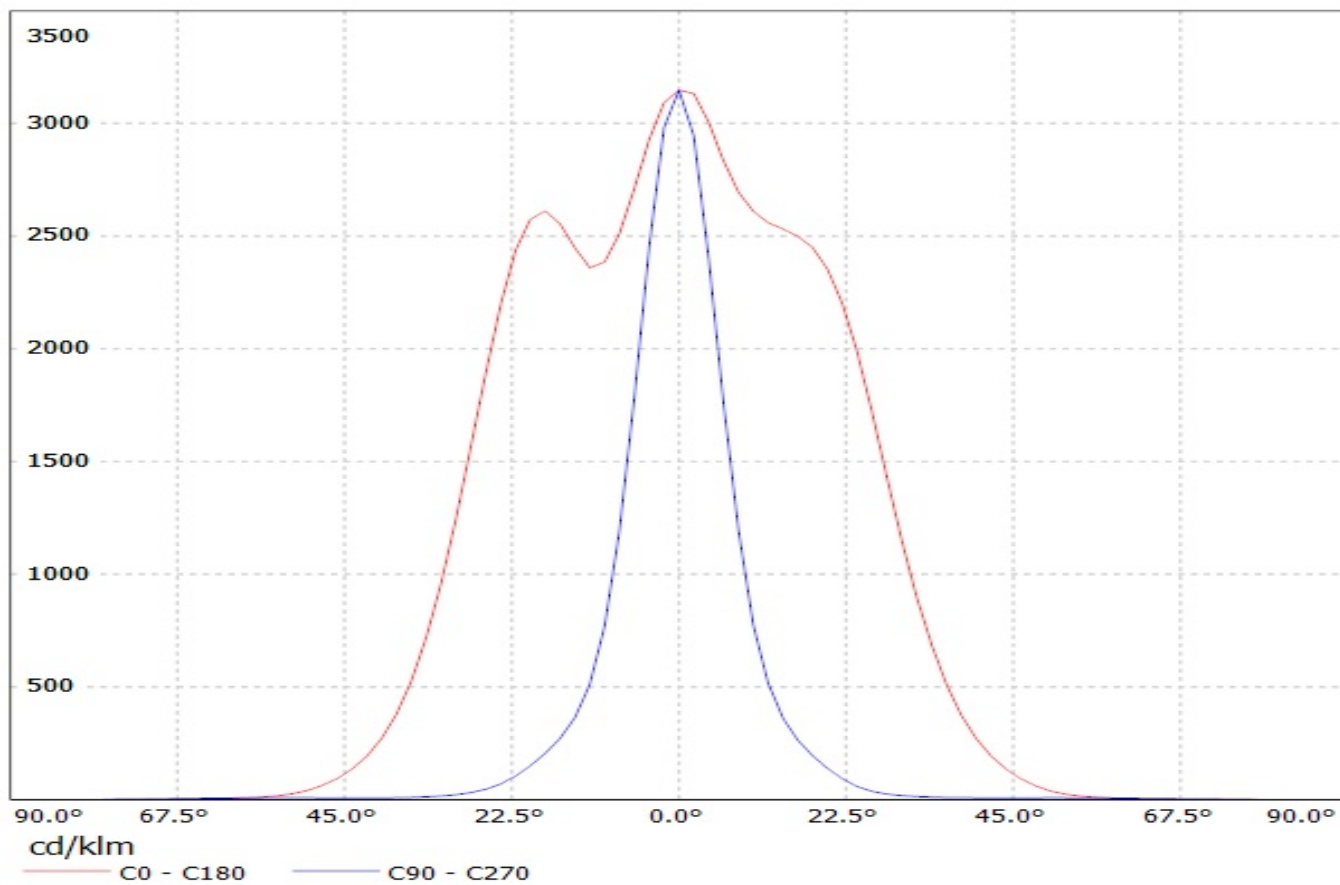
SIZE	PART NUMBER
A4	-

SCALE	1:1	WEIGHT	SHEET	1/1
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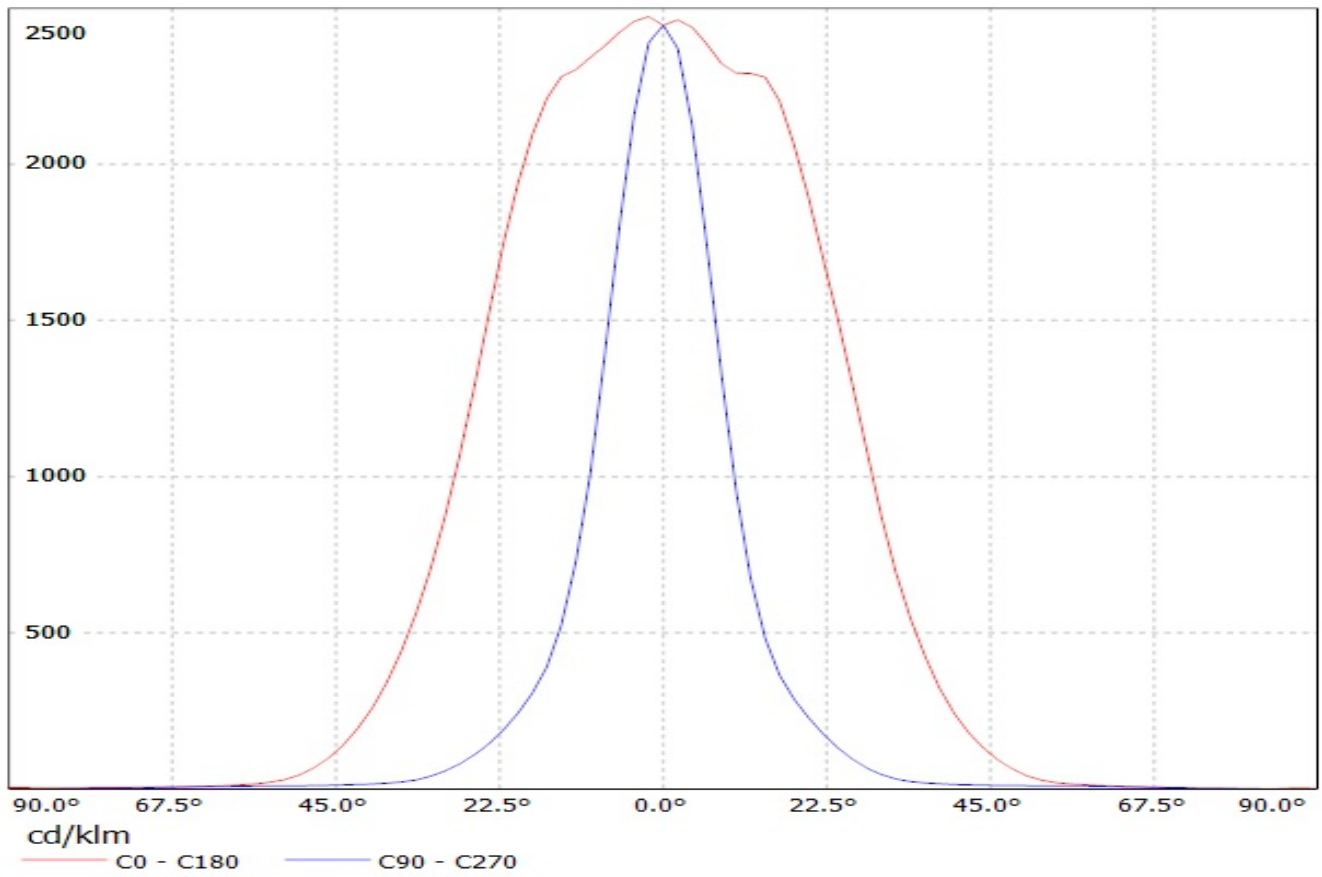
D

A

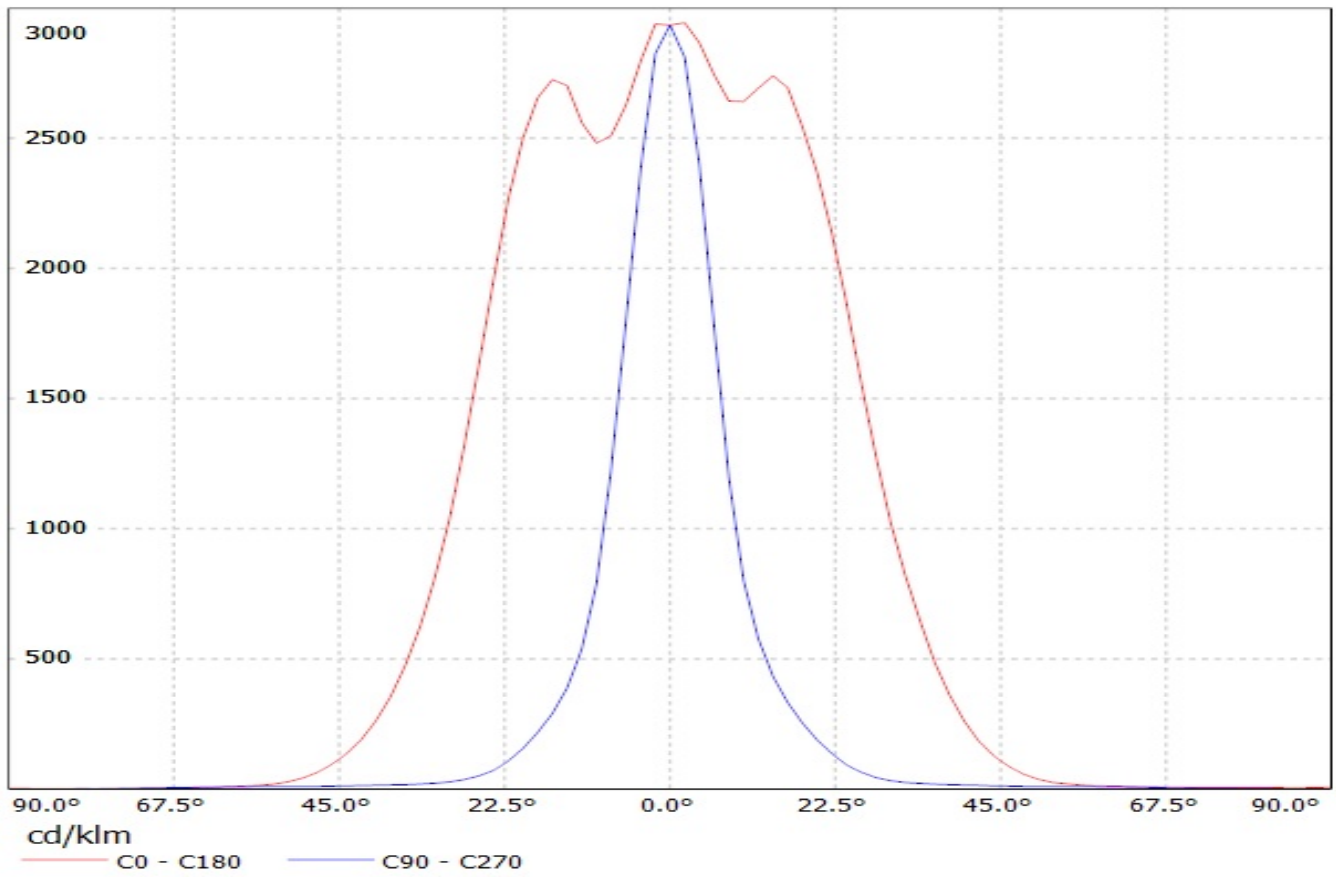
Luminaire: Ledil Oy C13529_VERONICA-O_(XP-G2) Efficiency=82%
Lamps: 1 x Cree Xp-G2 (104lm @ 250mA) CCT=6600K P=0.8W I=250mA



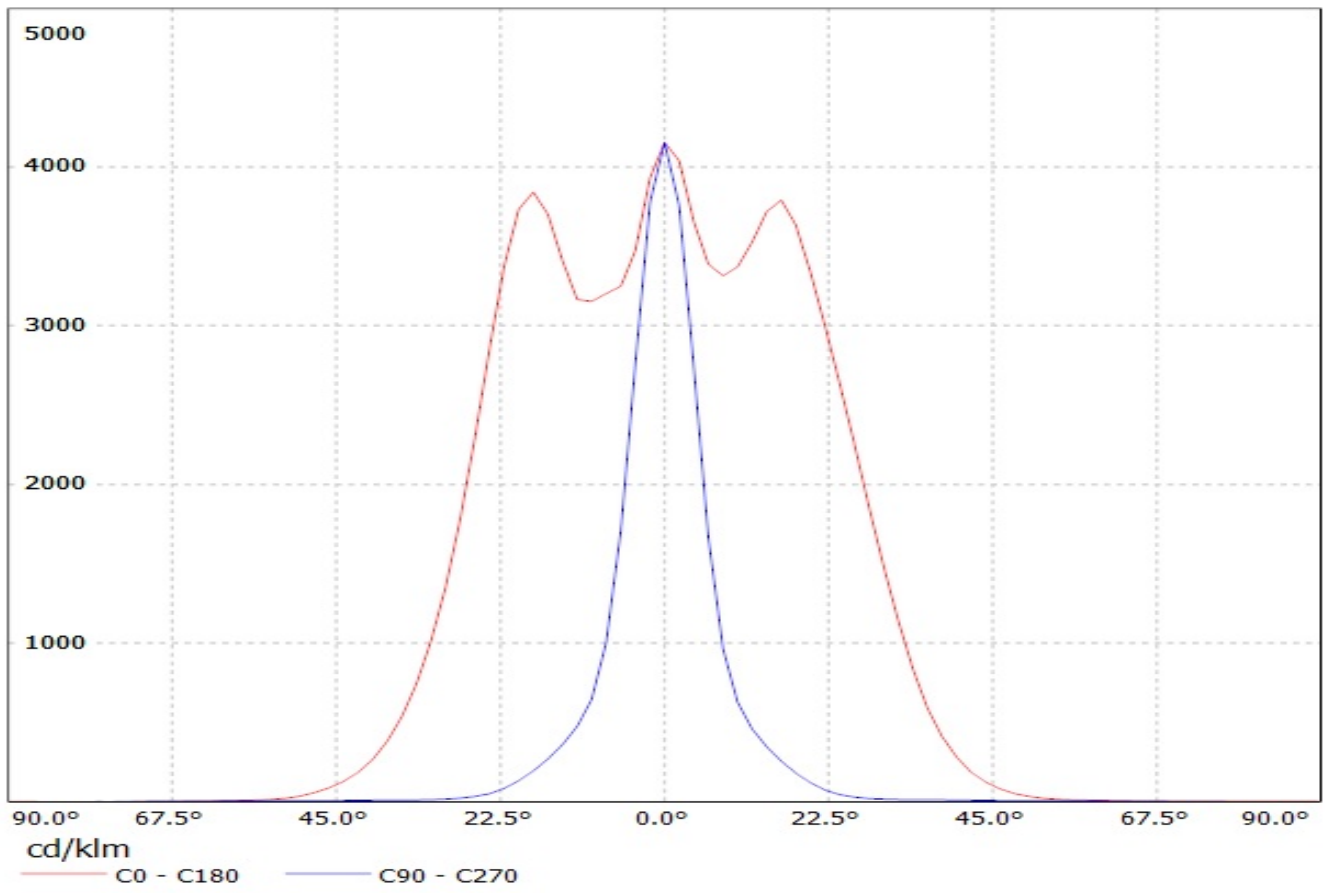
Luminaire: Ledil Oy C13529_VERONICA-O_(XM-L) Efficiency=83%
Lamps: 1 x Cree XM-L (XMLAWT-00-0000-0000T6051) 101lm @ 250mA CCT=8900K P=0.7W I=250mA



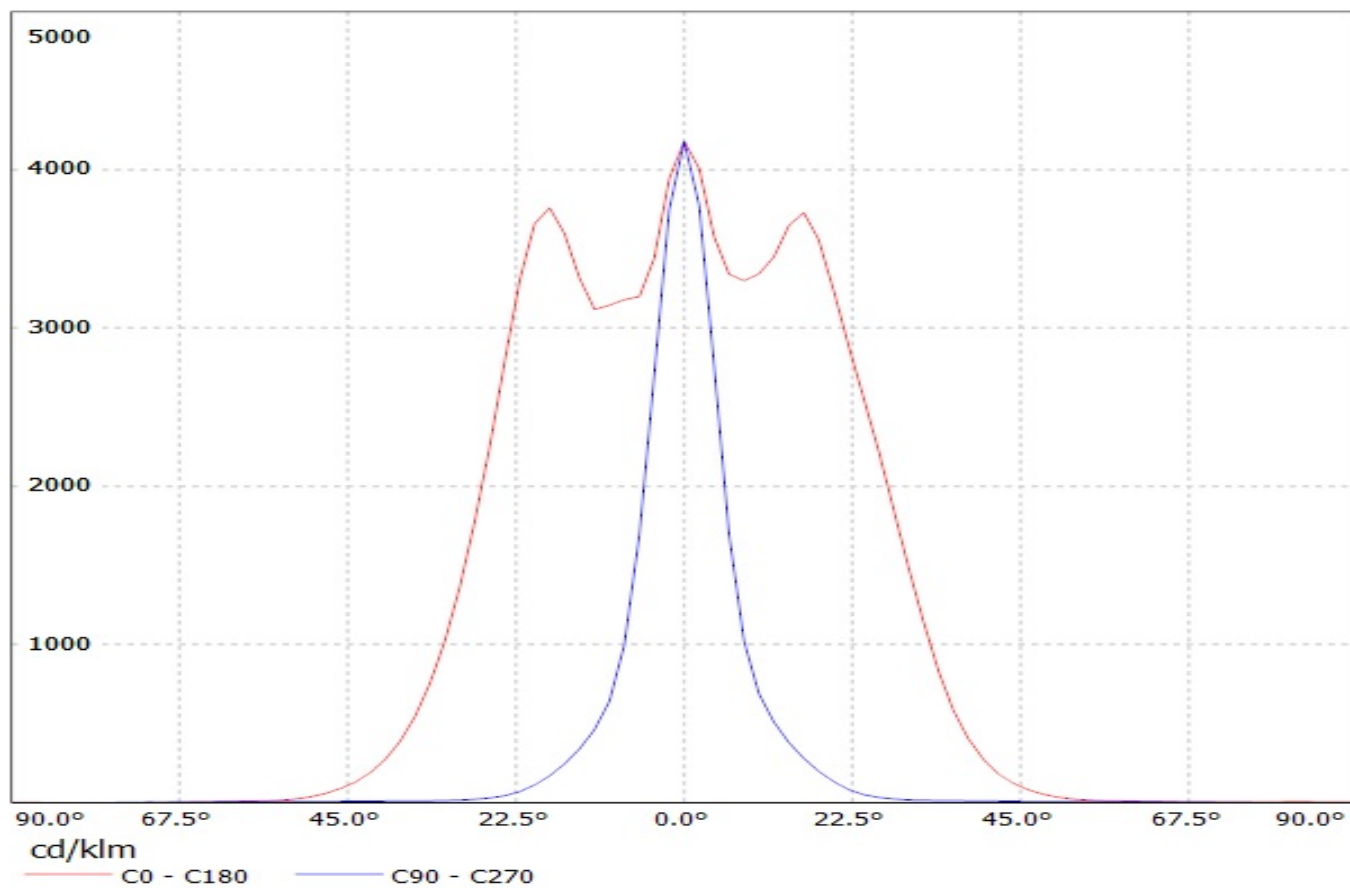
Luminaire: Ledil Oy C13529_VERONICA-O_(XT-E) Efficiency=81%
Lamps: 1 x Cree XT-E (XTEAWT-00-0000-00000HBE8) 74lm @ 250mA CCT=2800K P=0.8W I=250mA



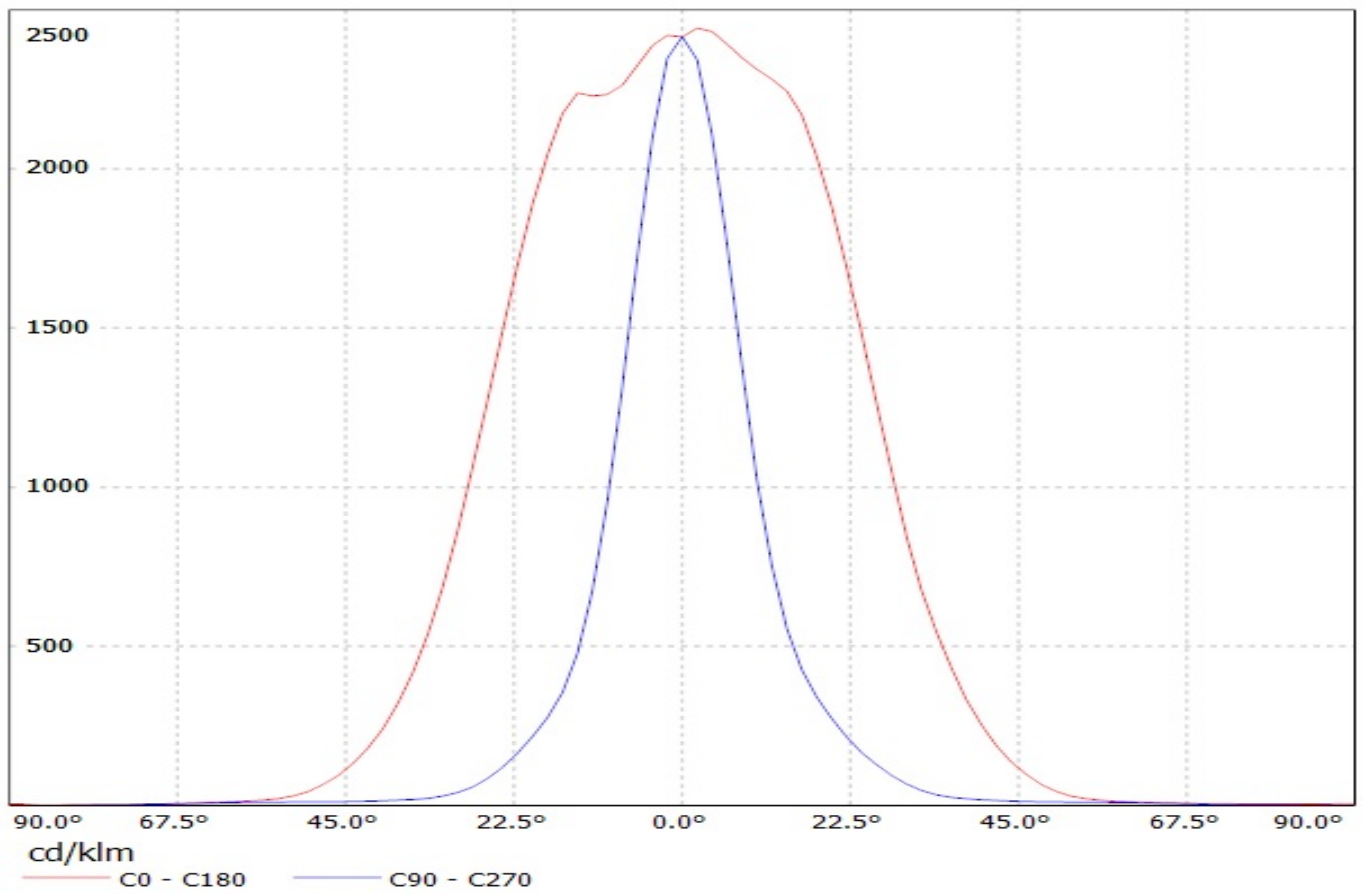
Luminaire: LEDil Oy C13529_VERONICA-O_(XP-E) Efficiency=83%
Lamps: 1 x Cree XP-E (XPEWHT-L1-3C0-Q5-0-06) 78lm @ 250mA CCT=5500K P=0.8W I=250mA



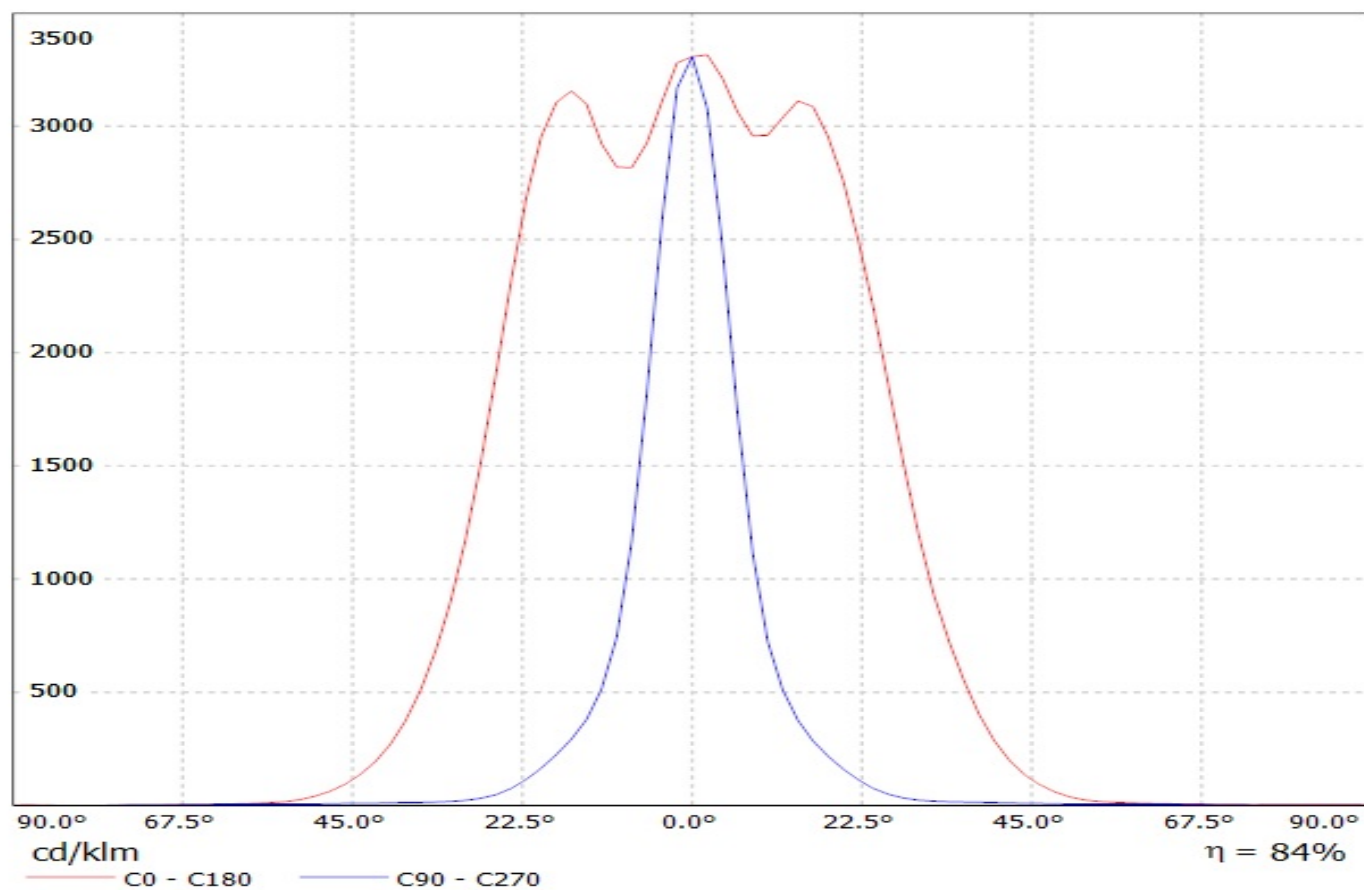
Luminaire: LEDil Oy C13529_Veronica-O_(XP-E2) Efficiency=84%
Lamps: 1 x Cree XP-E2 (XPEBWT-L1-7B4-Q4-0-01) 84lm @ 250mA CCT=3200K P=0.7W I=250mA



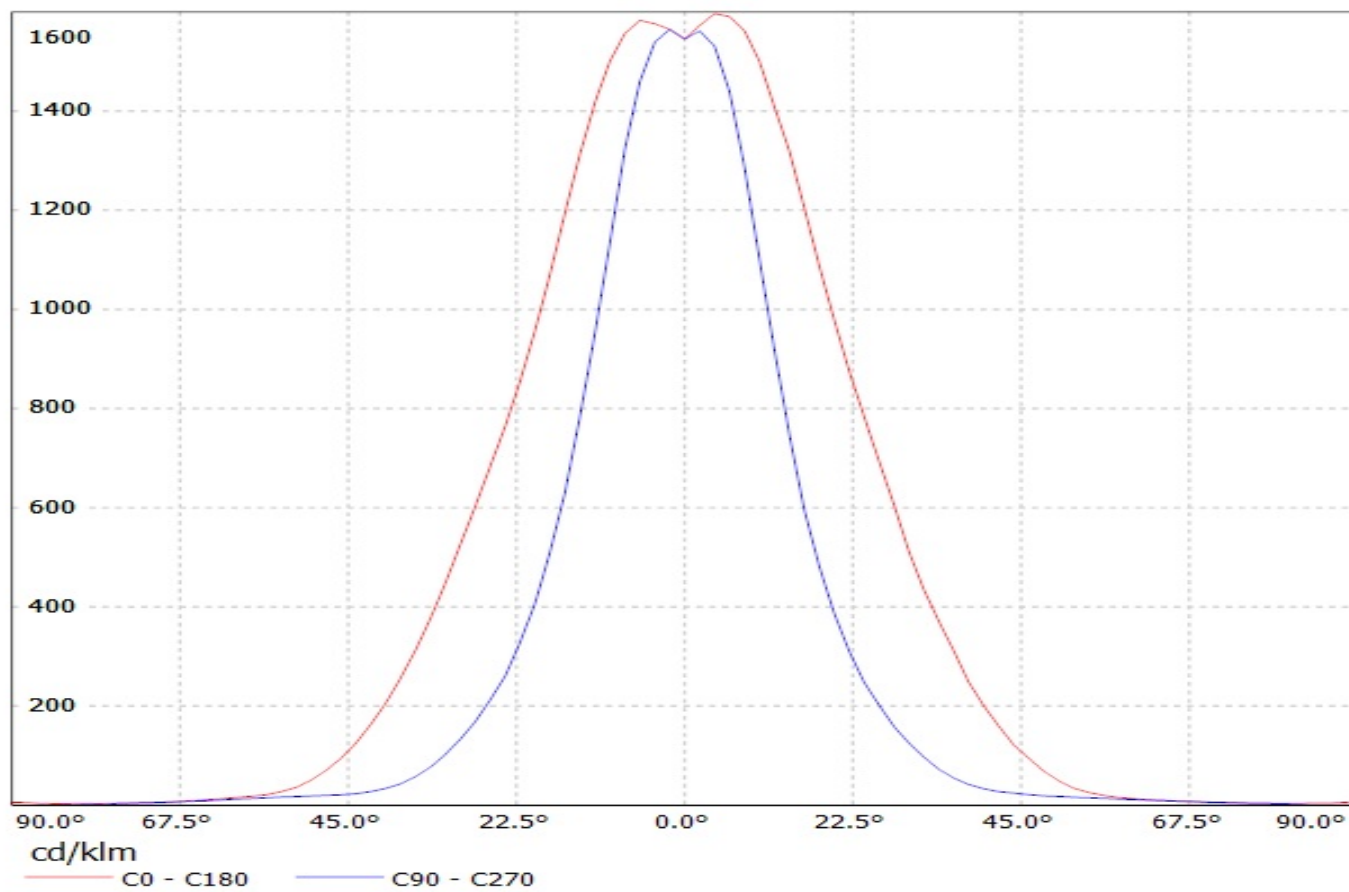
Luminaire: LEDil Oy C13529_Veronica-O_(XM-L2) Efficiency=82%
Lamps: 1 x Cree XM-L2 (XMLBWT-0-7B4-T30-0L-0001) 91lm @ 250mA CCT=3200K P=0.7W I=250mA



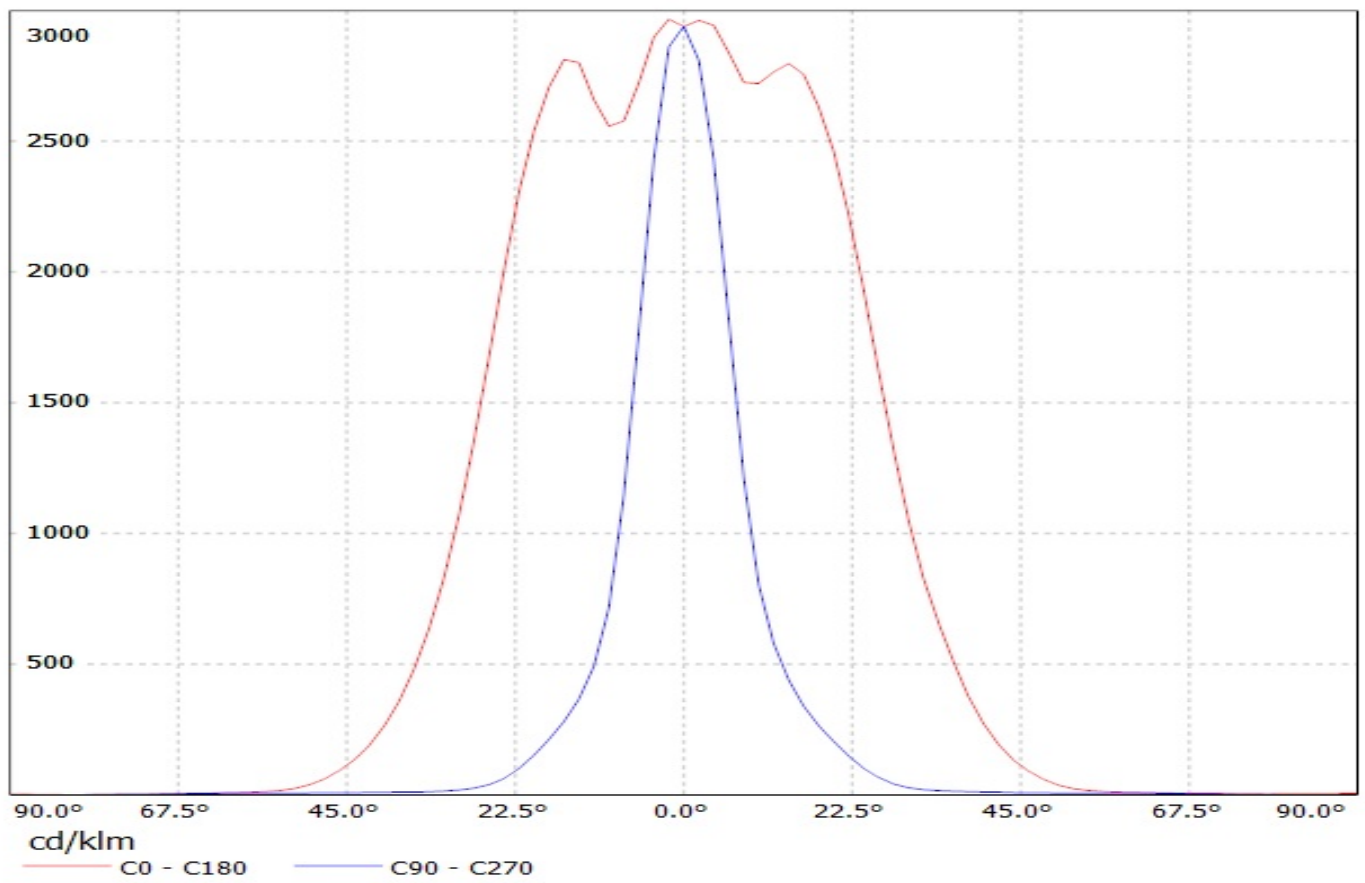
Luminaire: LEDil Oy C13529_VERONICA-O_(XP-G) Efficiency=83%
Lamps: 1 x Cree XP-G (XPGWHT-L1-CWPI-00BE7) 67lm @ 250mA CCT=3100K P=0.8W I=250mA



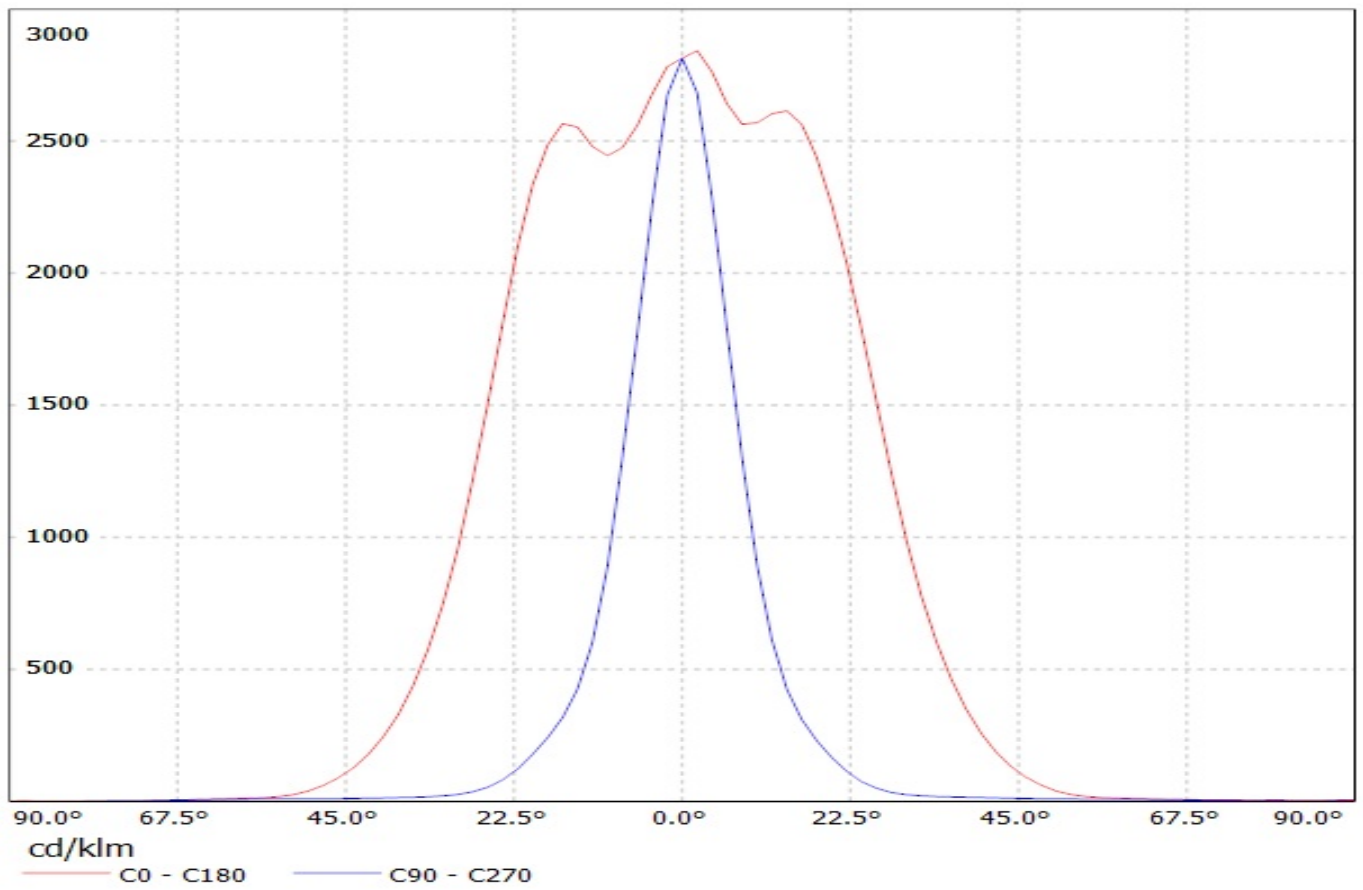
Luminaire: LEDil Oy C13529_VERONICA-O_(MK-R) Efficiency=80%
Lamps: 1 x Cree MK-R (353lm @ 250mA) CCT=3300K P=2.8W I=250mA



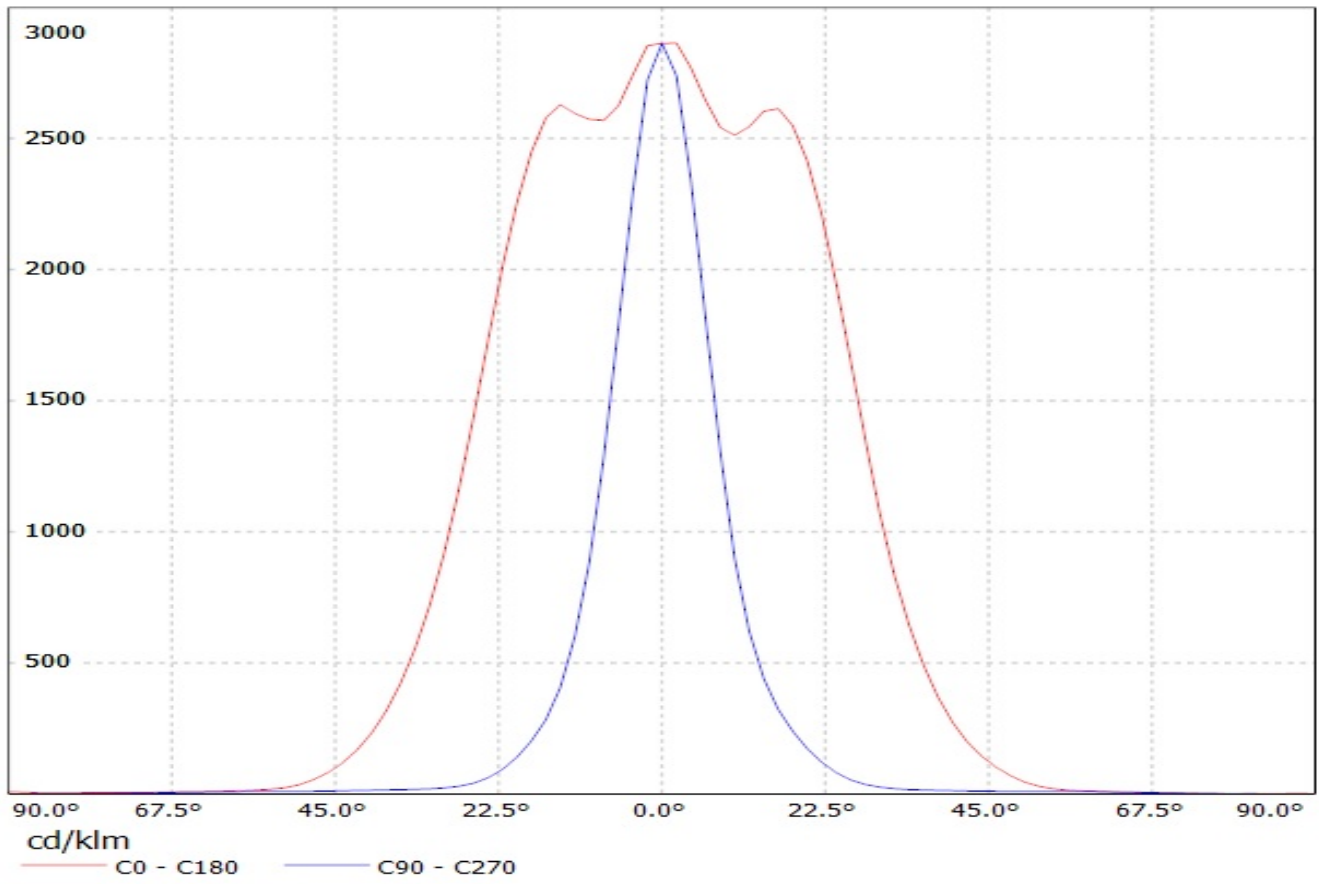
Luminaire: Ledil Oy C13529_VERONICA-O_(3535_Ceramic_3W) Efficiency=81%
Lamps: 1 x LG 3535 Ceramic 3W (LEMWA33) 90lm @ 250mA CCT=6900K P=0.7W I=250mA



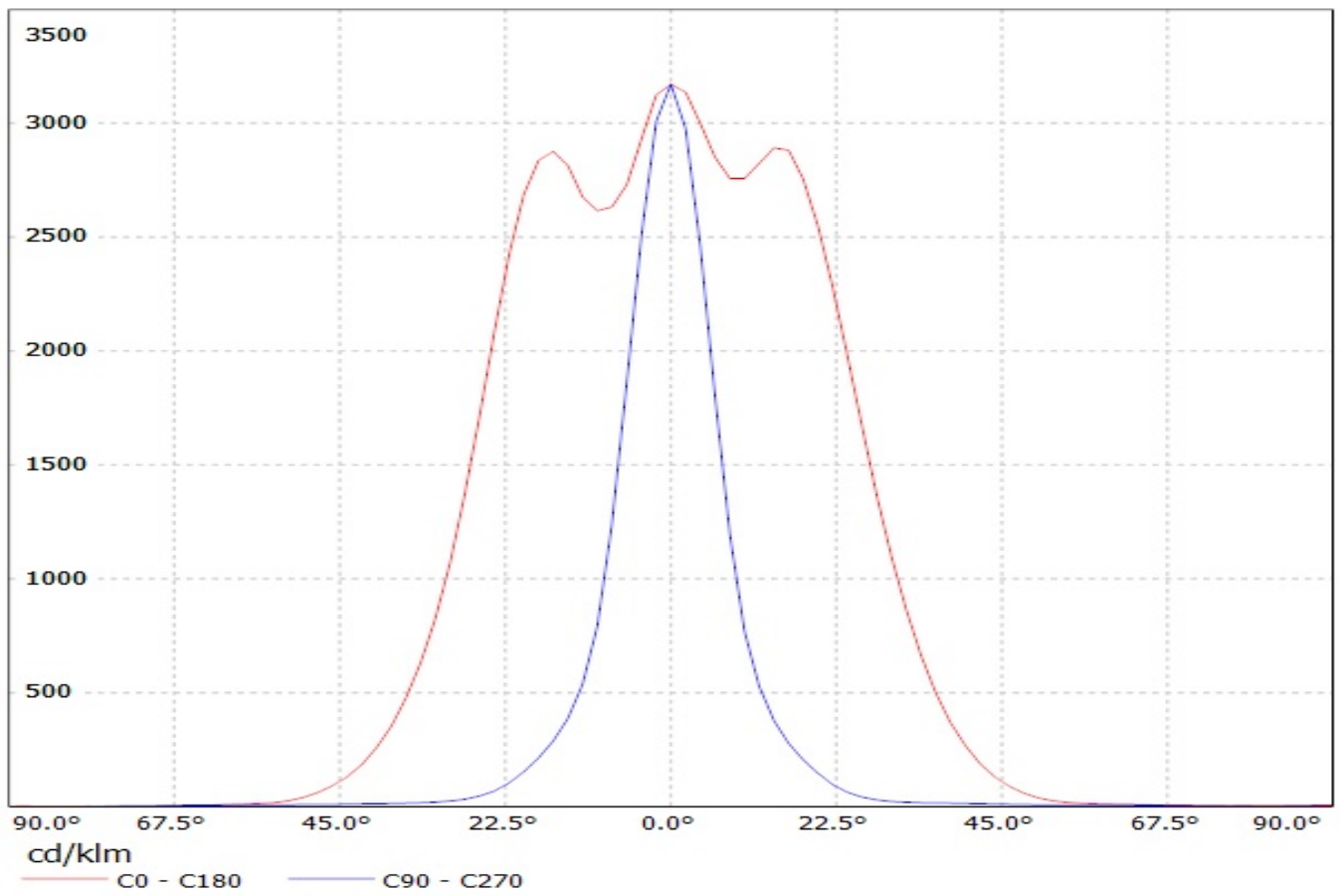
Luminaire: LEDil Oy C13529_Veronica-O_(Luxeon_R) Efficiency=81%
Lamps: 1 x Luxeon R (LXA7-PW30) 73lm @ 250mA CCT=3000K P=0.7W I=250mA



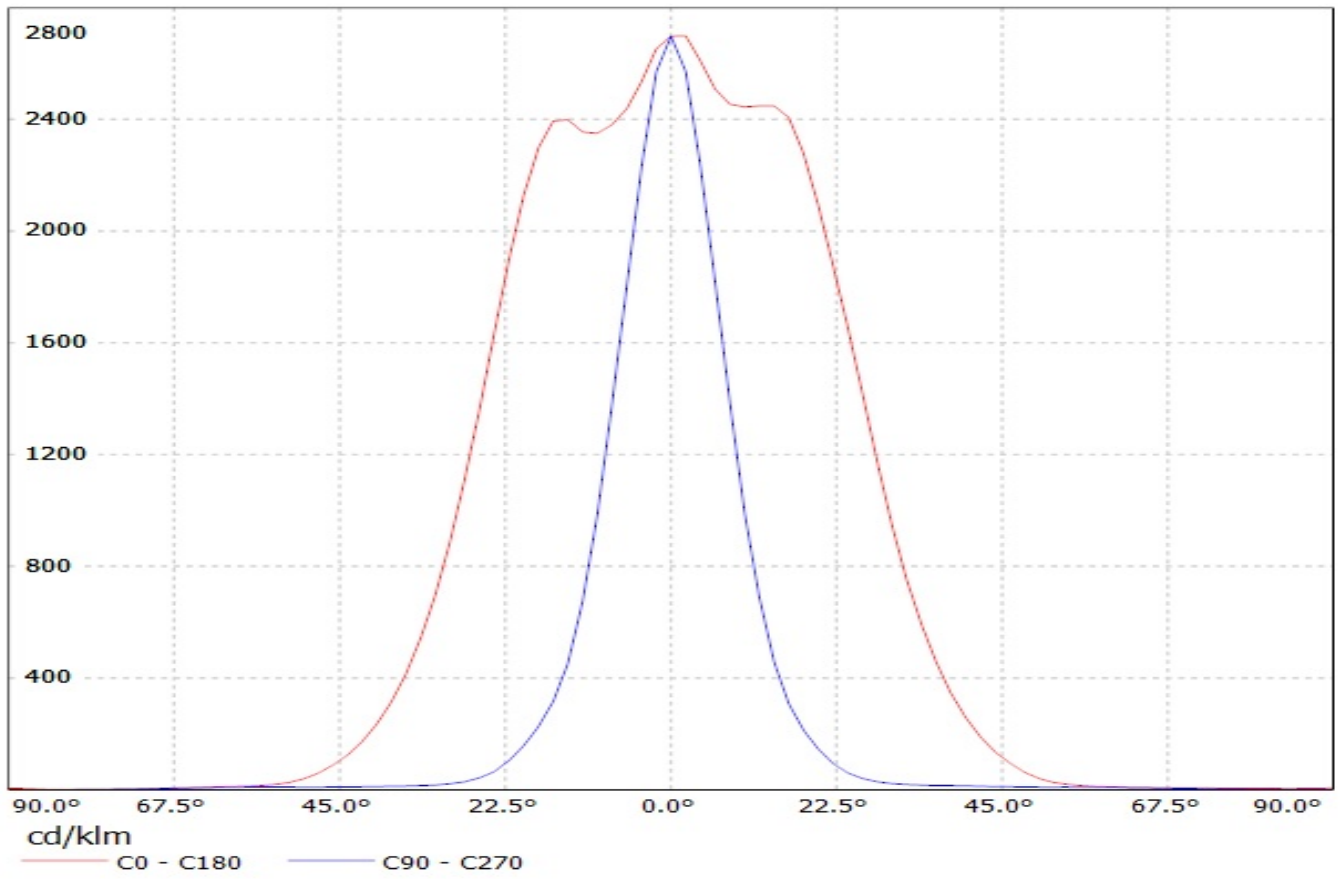
Luminaire: Ledil Oy C13529_VERONICA-O_LED_(Luxeon_A) Efficiency=82%
Lamps: 1 x Luxeon A (66lm @ 250mA) CCT=2900K P=0.8W I=250mA



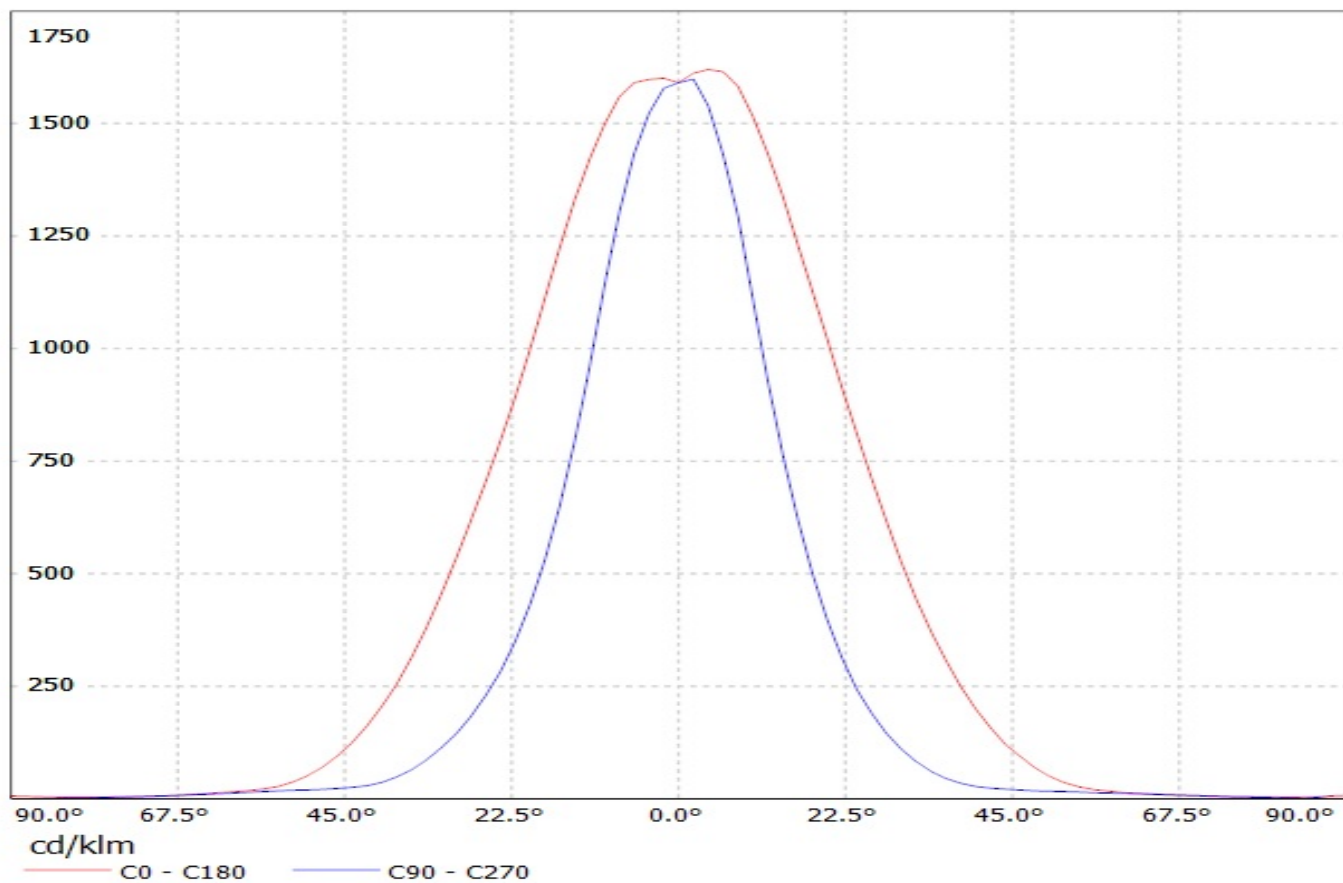
Luminaire: LEDil Oy C13529_Veronica-O_(Luxeon_Rebel) Efficiency=82%
Lamps: 1 x Luxeon Rebel (LXM8-PW30) 61lm @ 250mA CCT=2900K P=0.7W I=250mA



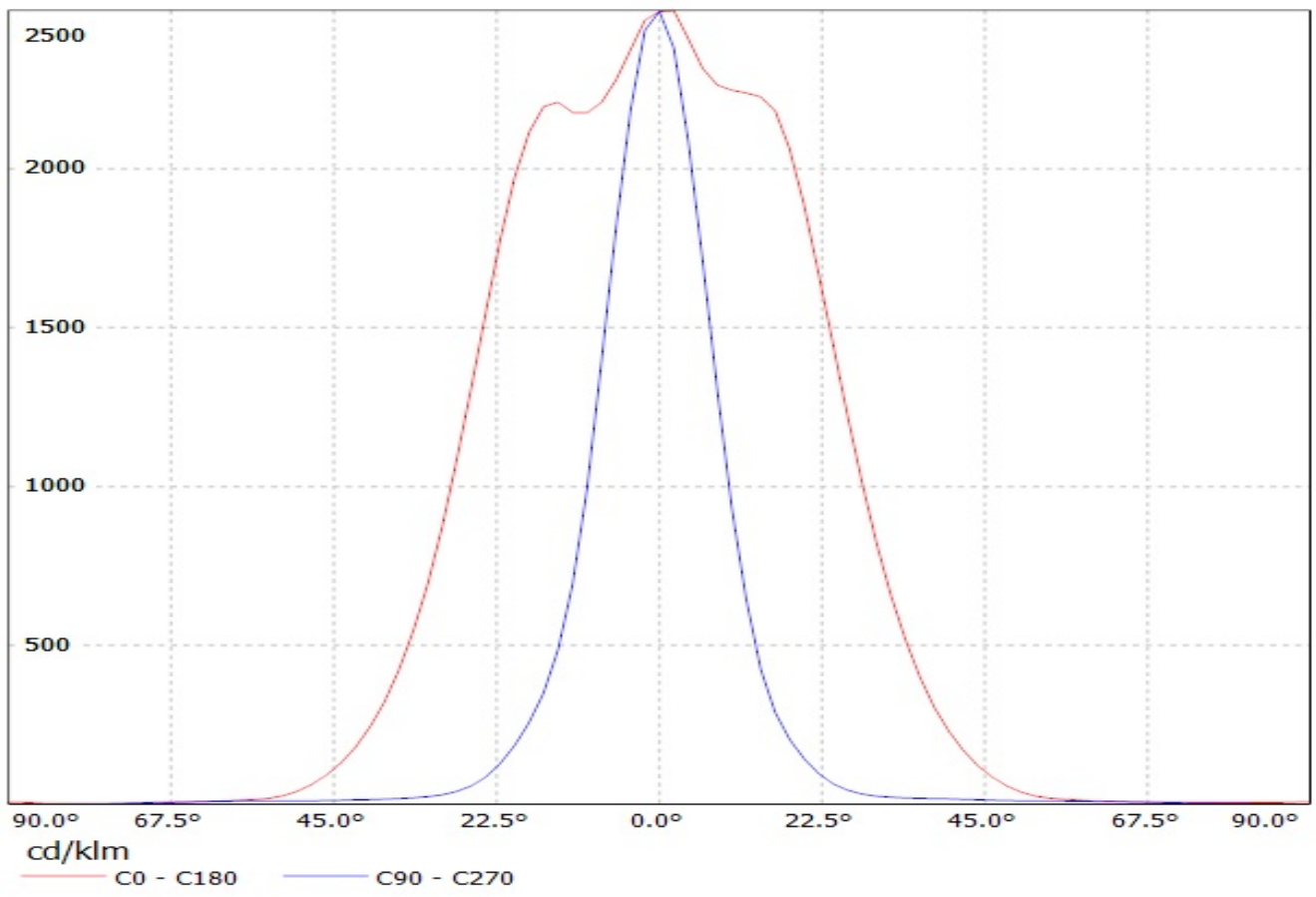
Luminaire: Ledil Oy C13529_VERONICA-O_LED_(Luxeon_Rebel_ES) Efficiency=81%
Lamps: 1 x Luxeon Rebel ES (91lm @ 250mA) CCT=4100K P=0.8W I=250mA



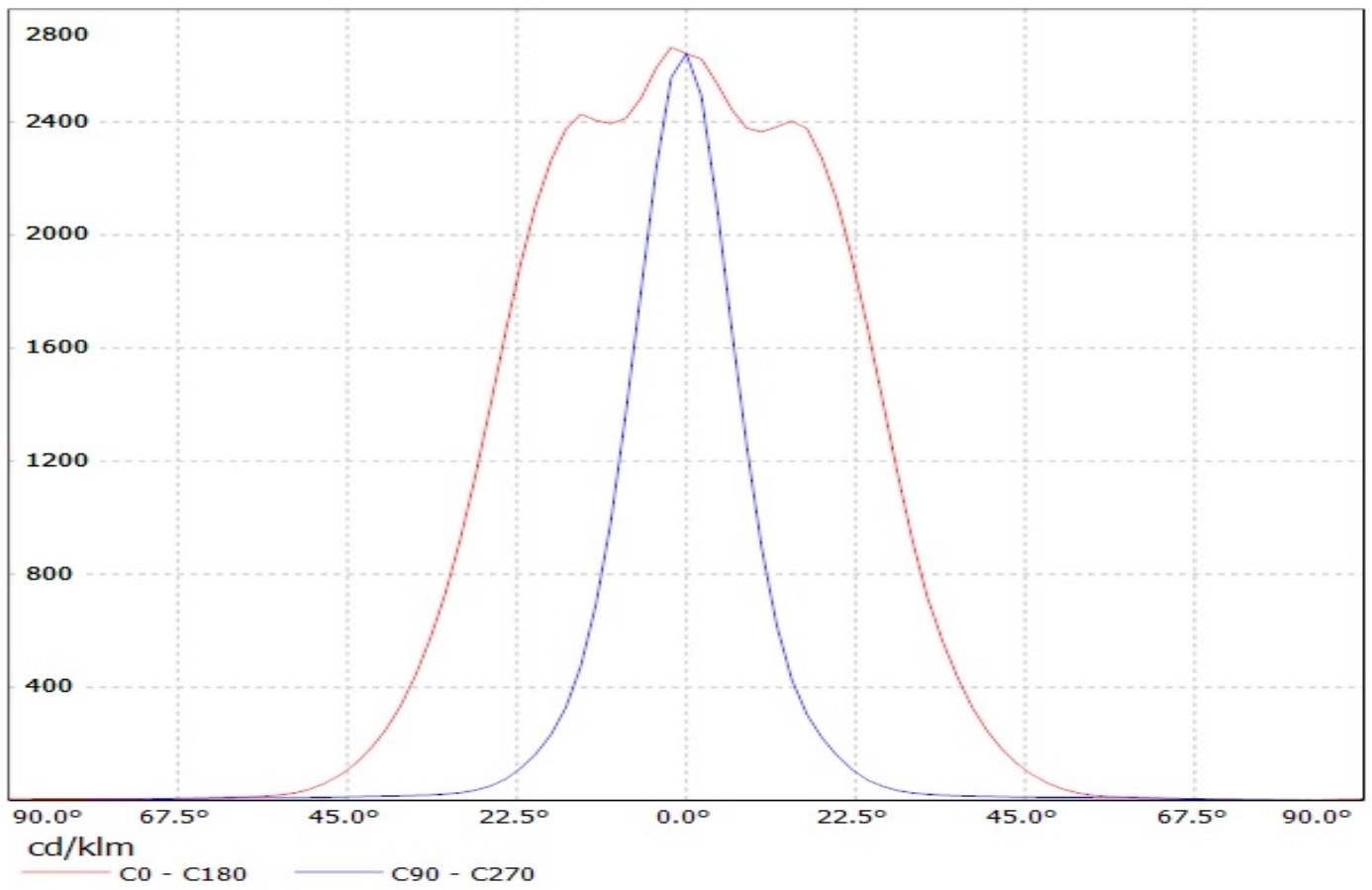
Luminaire: LEDil Oy C13529_Veronica-O_(Luxeon M) Efficiency=79%
Lamps: 1 x Luxeon M (LXR7-SW30) 368lm @ 250mA CCT=3100K P=2.8W I=250mA



Luminaire: LEDil Oy C13529_VERONICA-O_(NVSxx19A) Efficiency=79%
Lamps: 1 x Nichia NVSxx19A (NVSX219ATE) 93lm @ 250mA CCT=5010K P=0.7W I=250mA

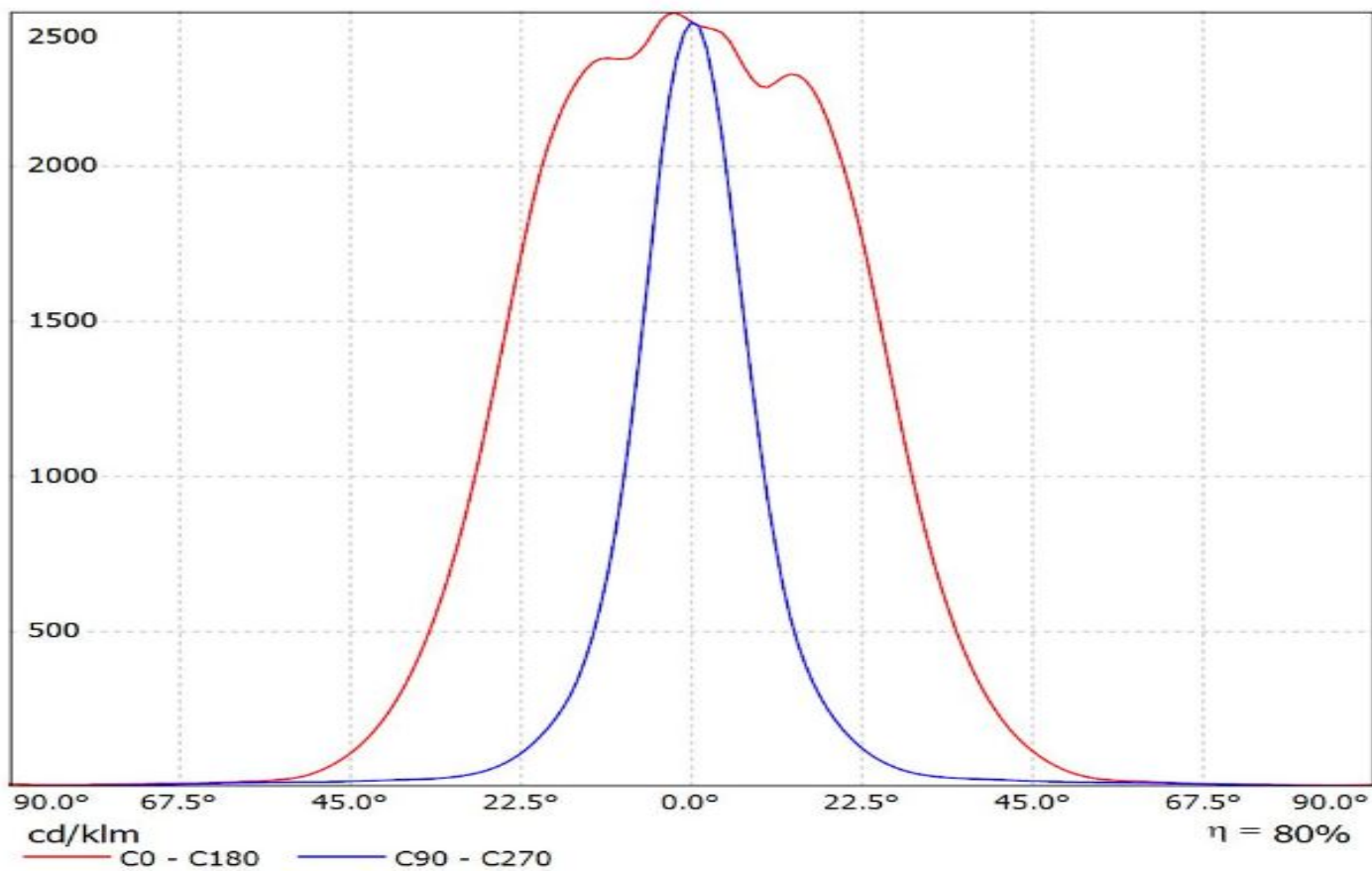


Luminaire: Ledil Oy C13529_VERONICA-O_(NVSxx19B) Efficiency=79%
Lamps: 1 x Nichia NVSxx19B (NVSL219BT) 106lm @ 250mA CCT=4300K P=0.7W I=250mA

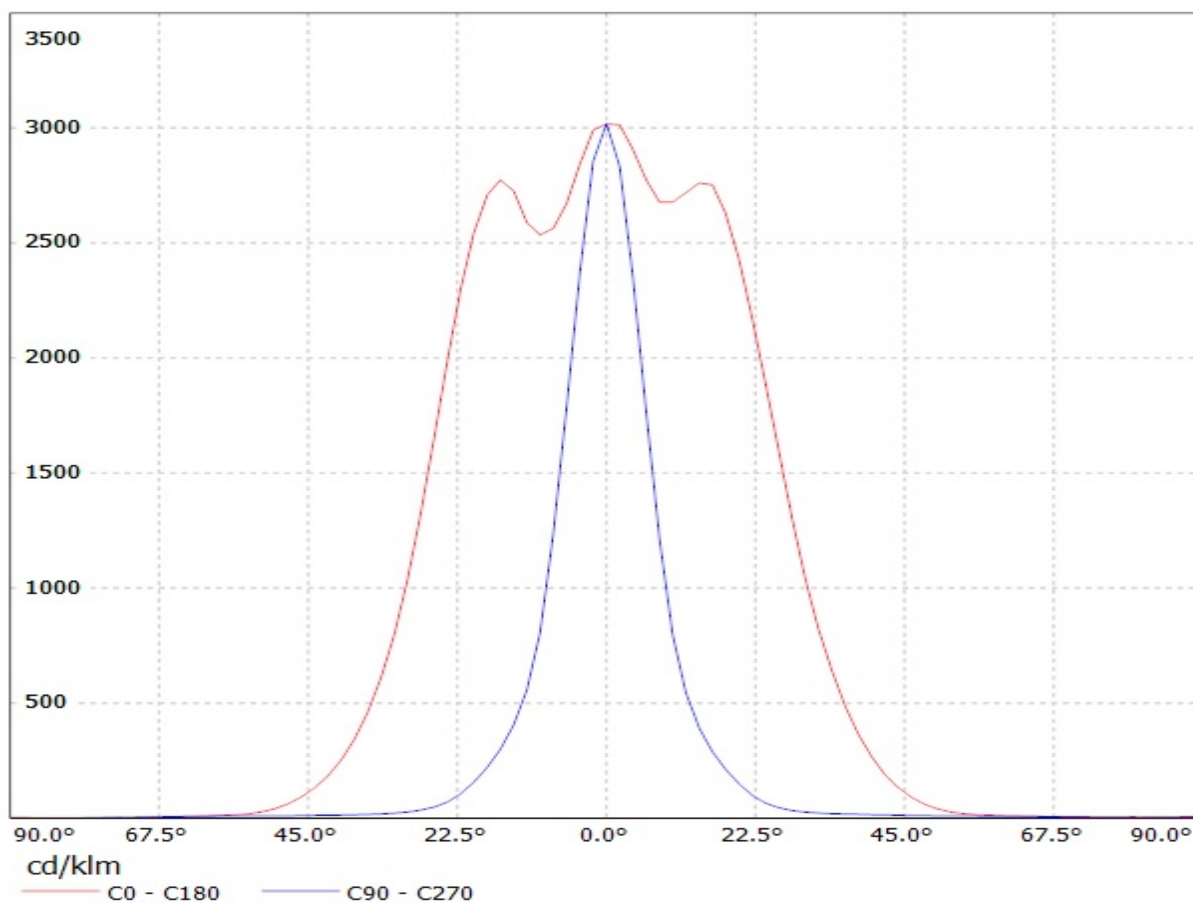


Luminaire: LEDiL Oy C13529_VERONICA-O_(NVSW3x9A)

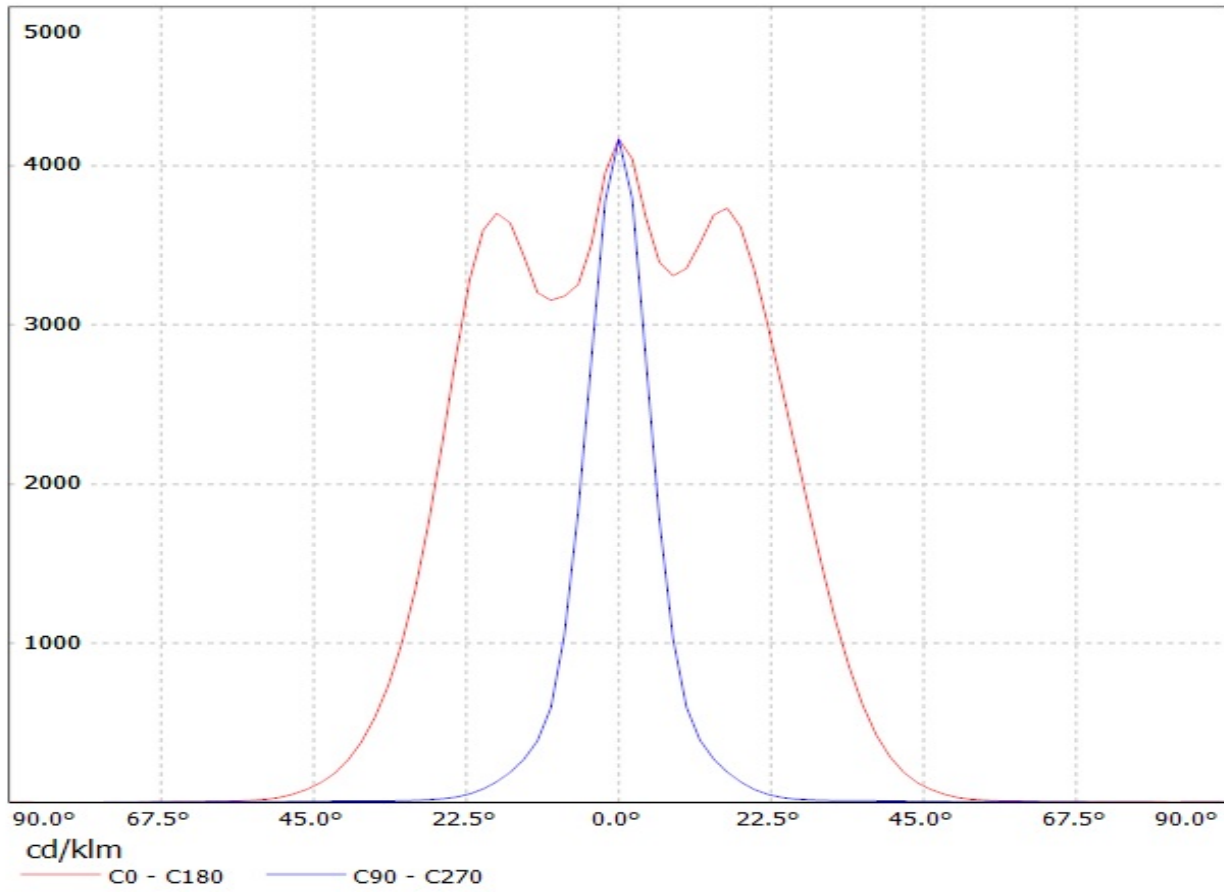
Lamps: 1 x Nichia_NVSW3x9A_(sm405/R70)_122.334lm@250mA_P=0.705435W_I=0.250A



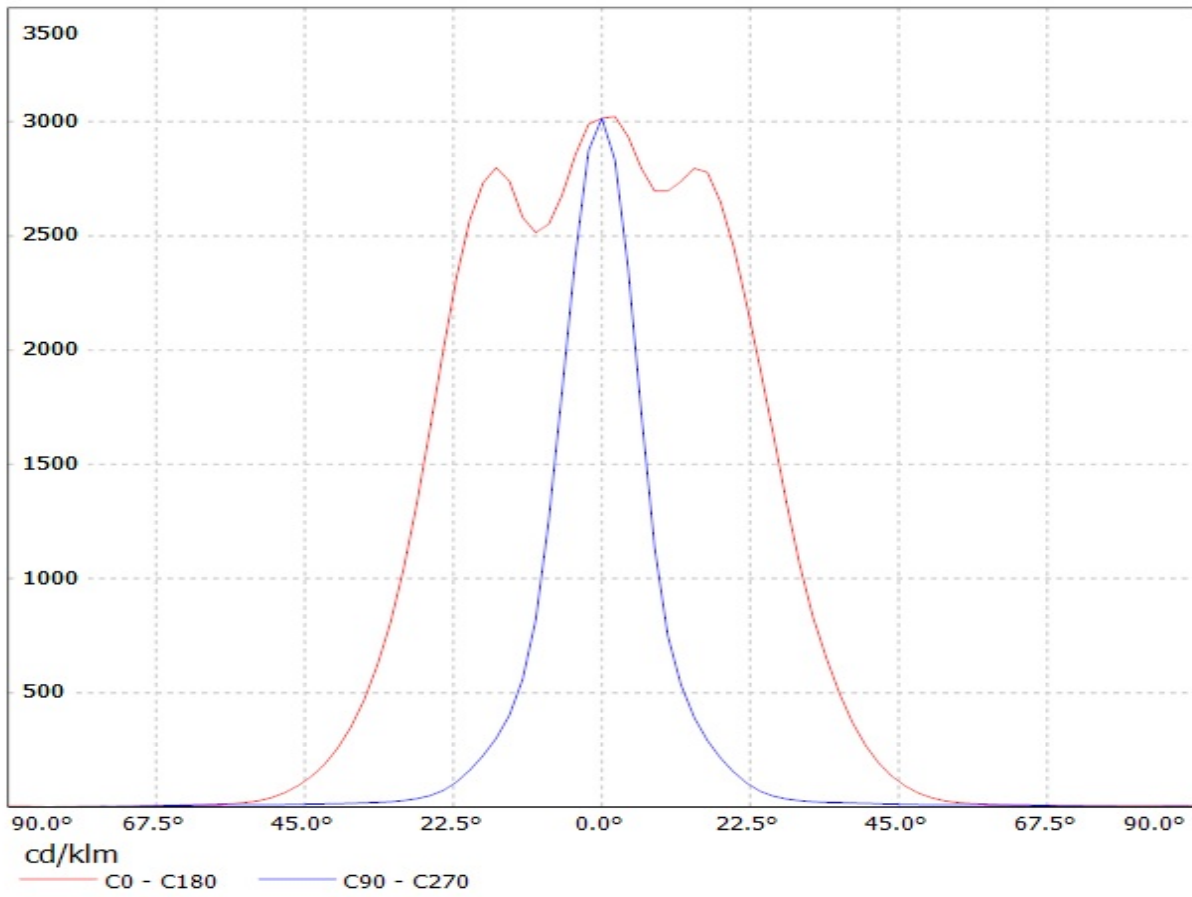
Luminaire: Ledil Oy C13529_VERONICA-O_(Oslon_Square_EC) Efficiency=81%
Lamps: 1 x Osram Oslon Square EC (LCW CQAR-EC-MQMS-5R8T-35) 79lm @ 250mA CCT=3200K P=0.8W I=250mA



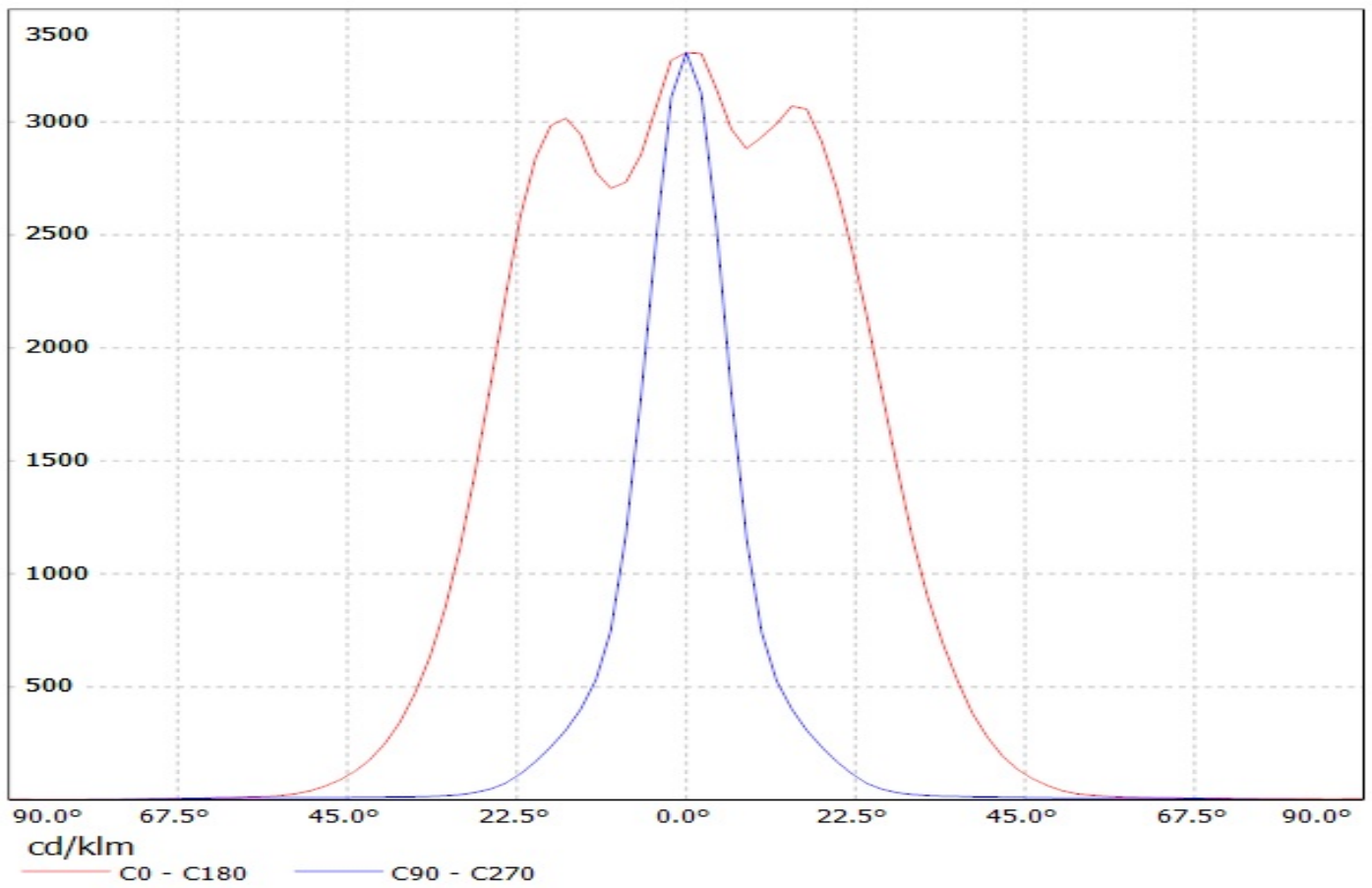
Luminaire: LEDil Oy C13529_VERONICA-O_(Oslon_SSL_150) Efficiency=83%
Lamps: 1 x Osram Oslon SSL 150 (LCW CRUP.EC-KTLP-607Q-1) 79lm @ 250mA CCT=3700K P=0.7W I=250mA



Luminaire: LEDil Oy C13529_Veronica-O_(Oslon_Square_PC) Efficiency=81%
Lamps: 1 x Osram Oslon Square PC (LCW CQAR.PL-MSMV-5H71-1) 101lm @ 250mA CCT=5900K P=0.8W I=250mA

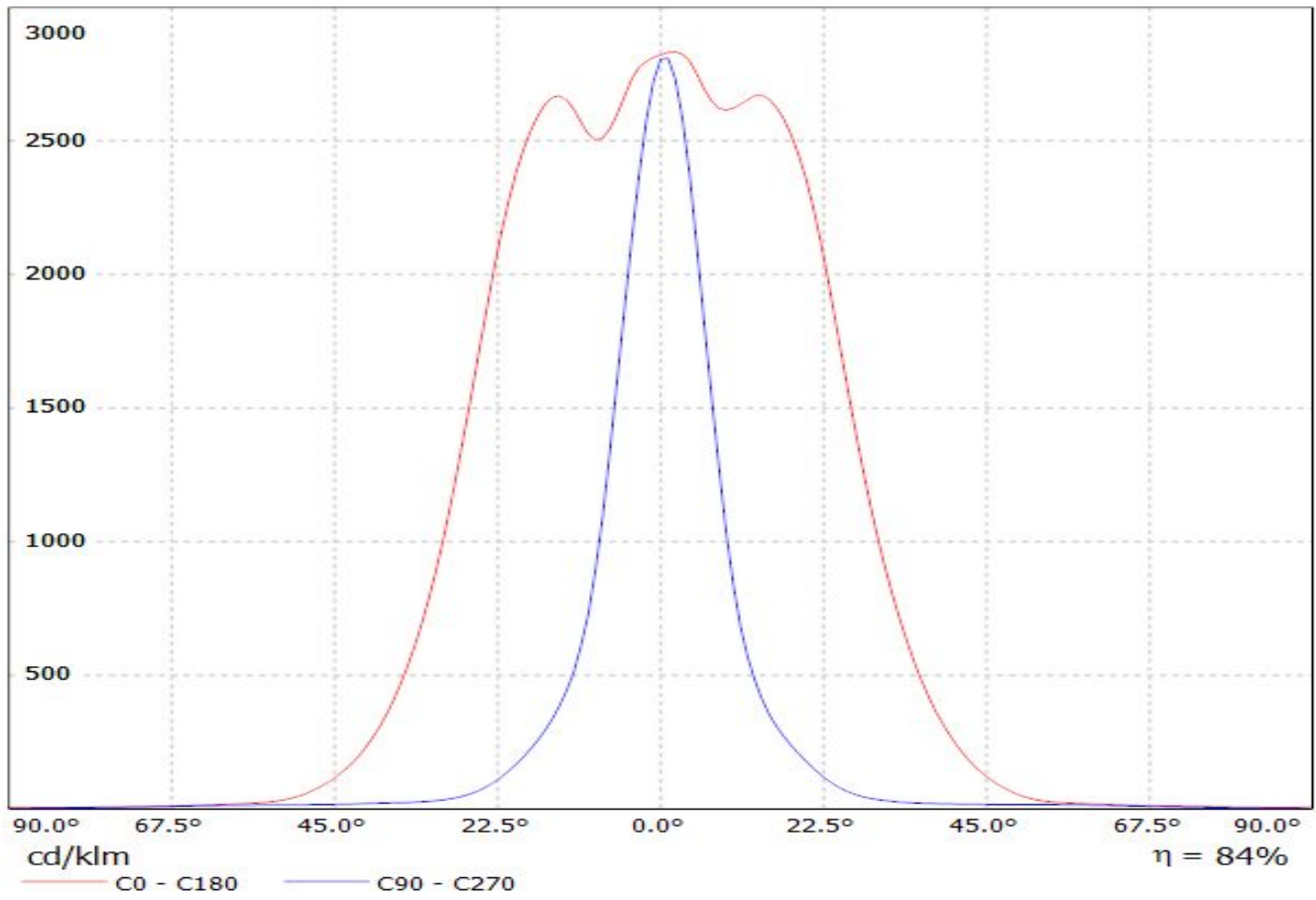


Luminaire: Ledil Oy C13529_VERONICA-O_(LH351Z) Efficiency=83%
Lamps: 1 x Samsung LH351Z (90.14lm @ 250mA) CCT=6500K P=0.7W I=250mA

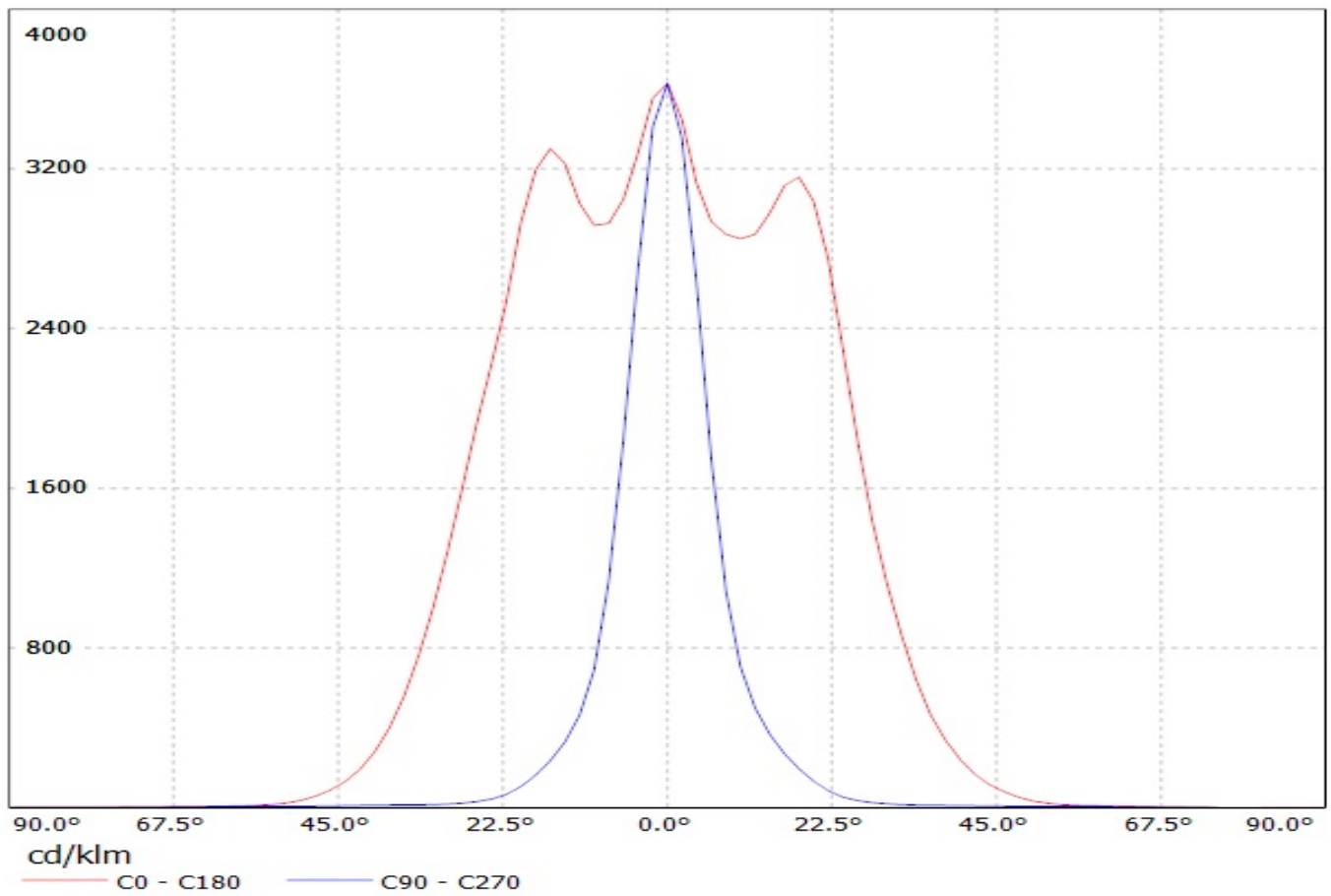


Luminaire: LEDiL Oy C13529_VERONICA-O_(LH351B)

Lamps: 1 x SAMSUNG_LH351B_107.366lm@250mA_P=2.9308W_I=249.9mA

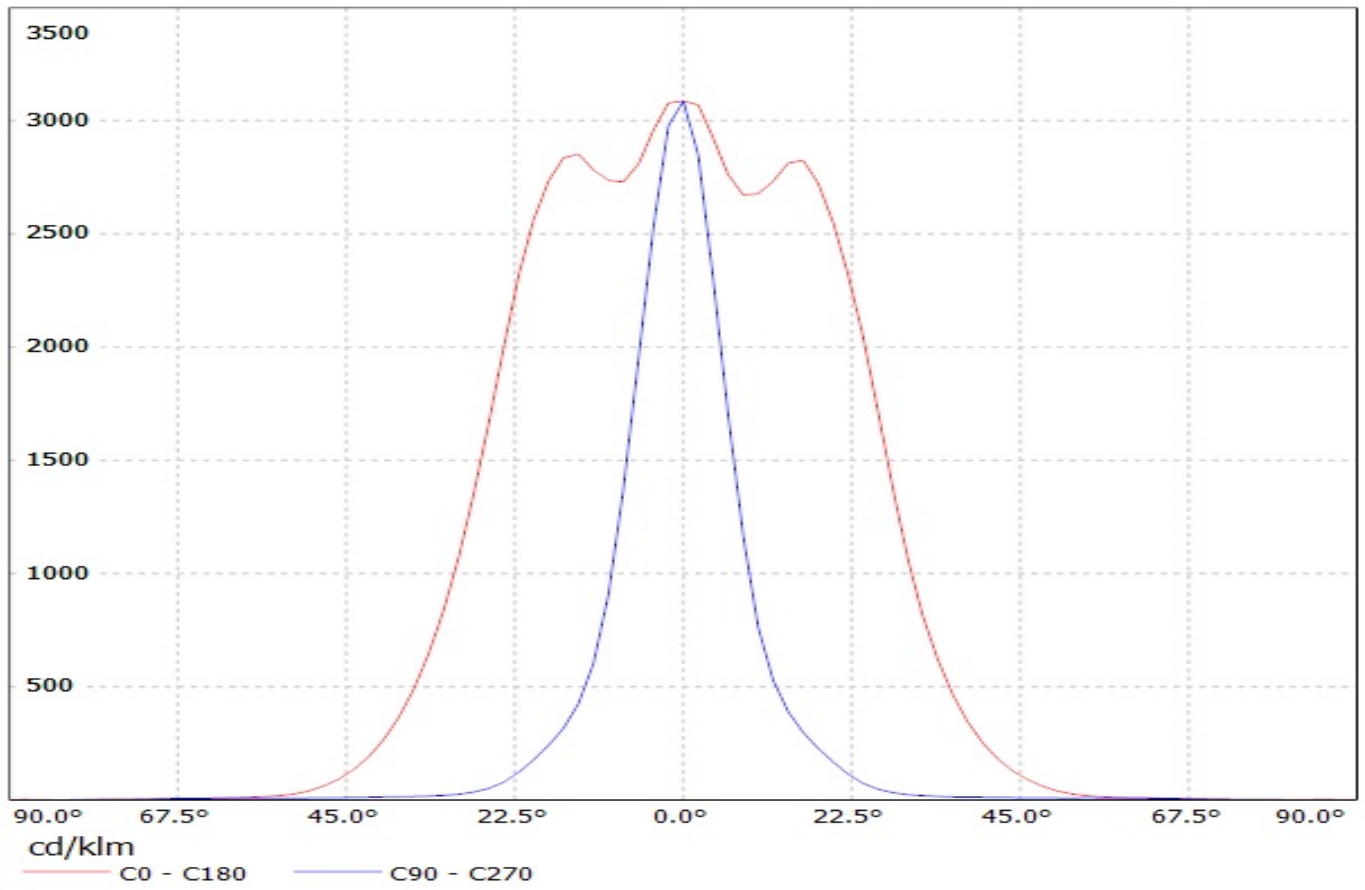


Luminaire: Ledil Oy C13529_VERONICA-O_LED_(Z5) Efficiency=83%
Lamps: 1 x Seoul Z5 (SZW05A0B) 83lm @ 250mA CCT=15070K P=0.8W I=250mA



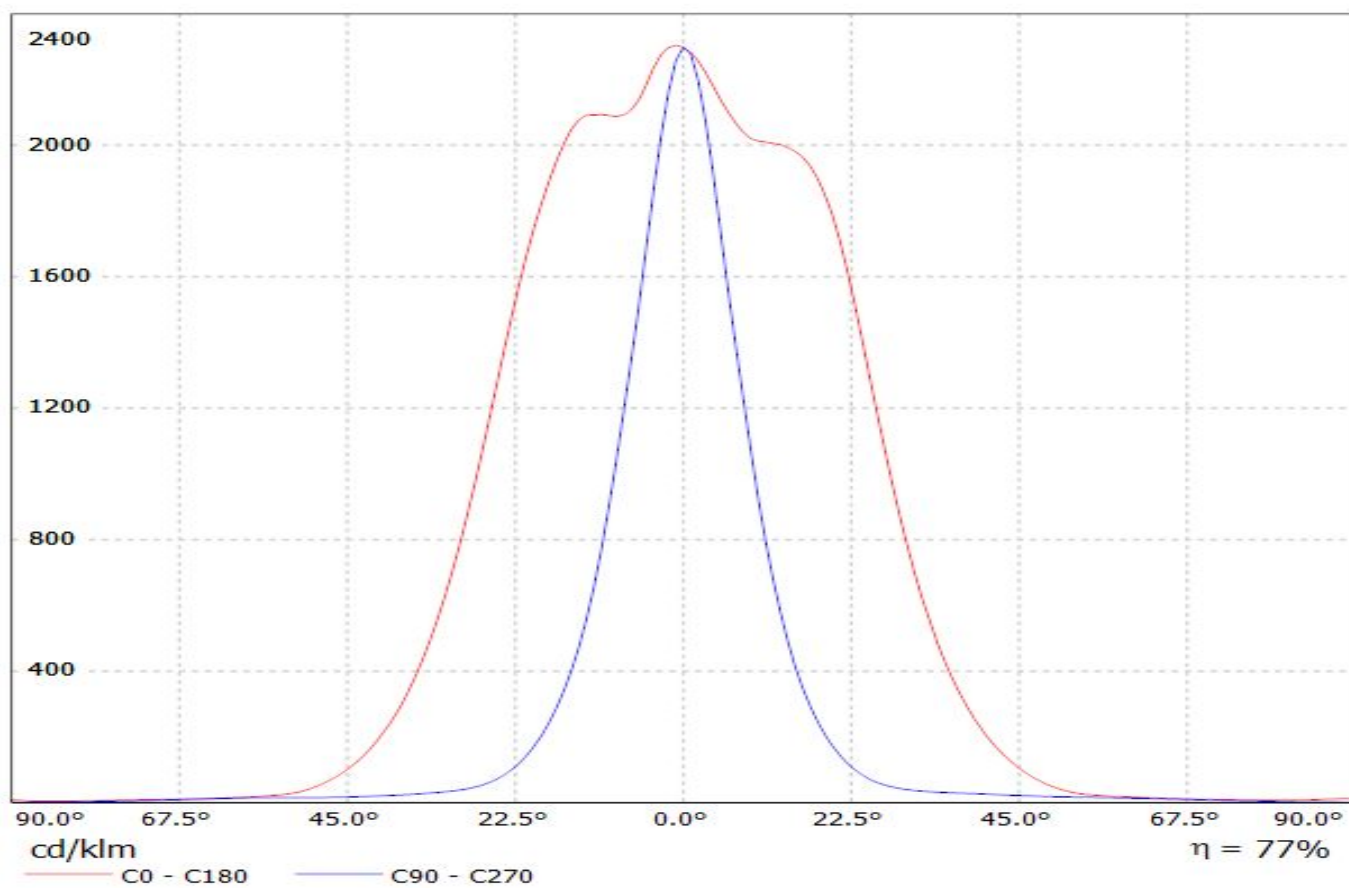
Luminaire: LEDil Oy C13529_VERONICA-O_(Z5M1) Efficiency=83%

Lamps: 1 x Seoul Z5M1 (SZ5M1-W0-C8/W1-A5-G) 108lm @ 250mA CCT=9100K P=0.8W I=250mA

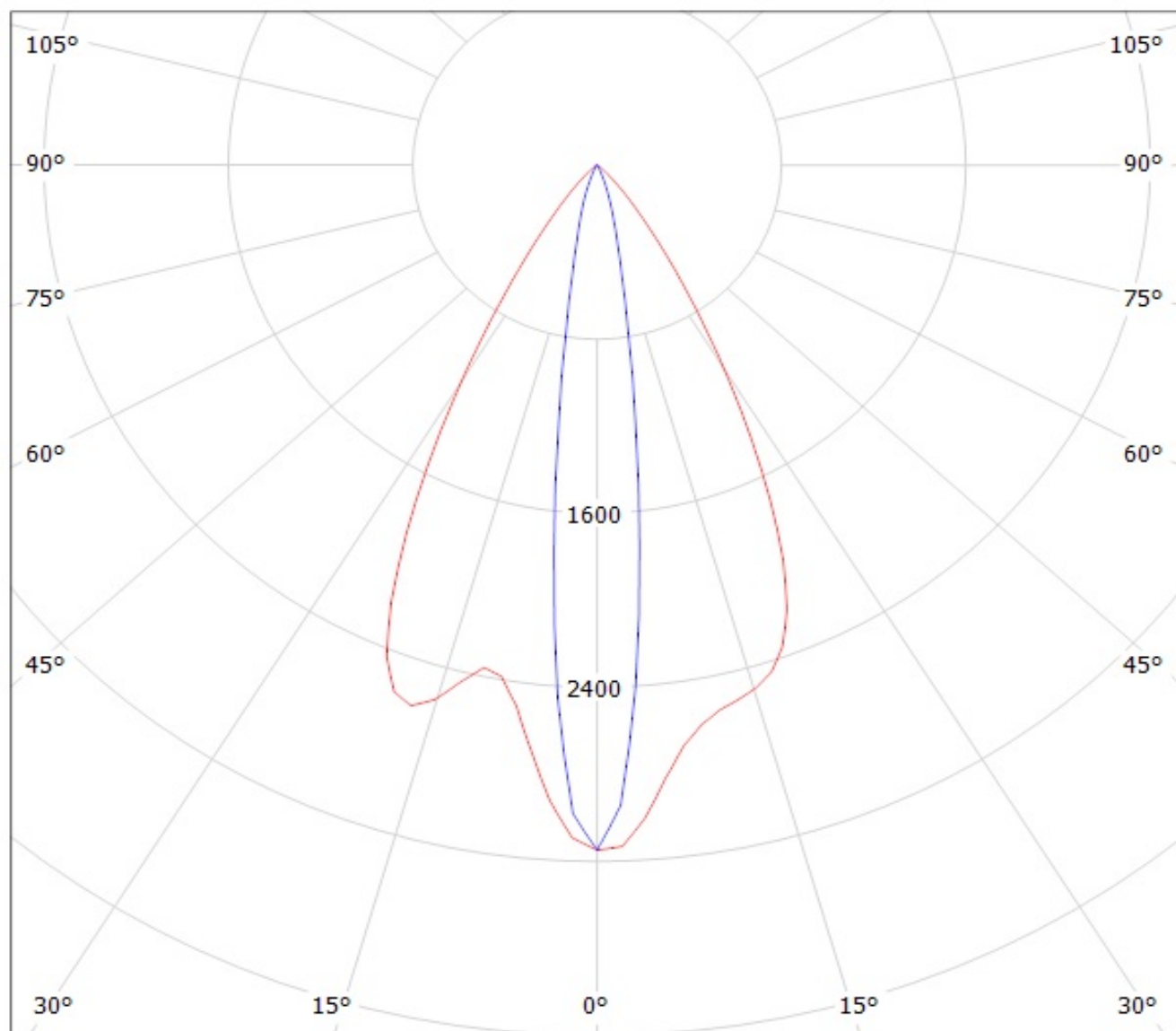


Luminaire: LEDiL Oy C13529_VERONICA-O_(Z8Y22plus)

Lamps: 1 x Seoul_Z8Y22plus_(W6E2G)_125.652lm@250mA_P=0.69312W_I=0.250A



Luminaire: Ledil Oy C13529_VERONICA-O_(XP-G2) Efficiency=82%
Lamps: 1 x Cree Xp-G2 (104lm @ 250mA) CCT=6600K P=0.8W I=250mA

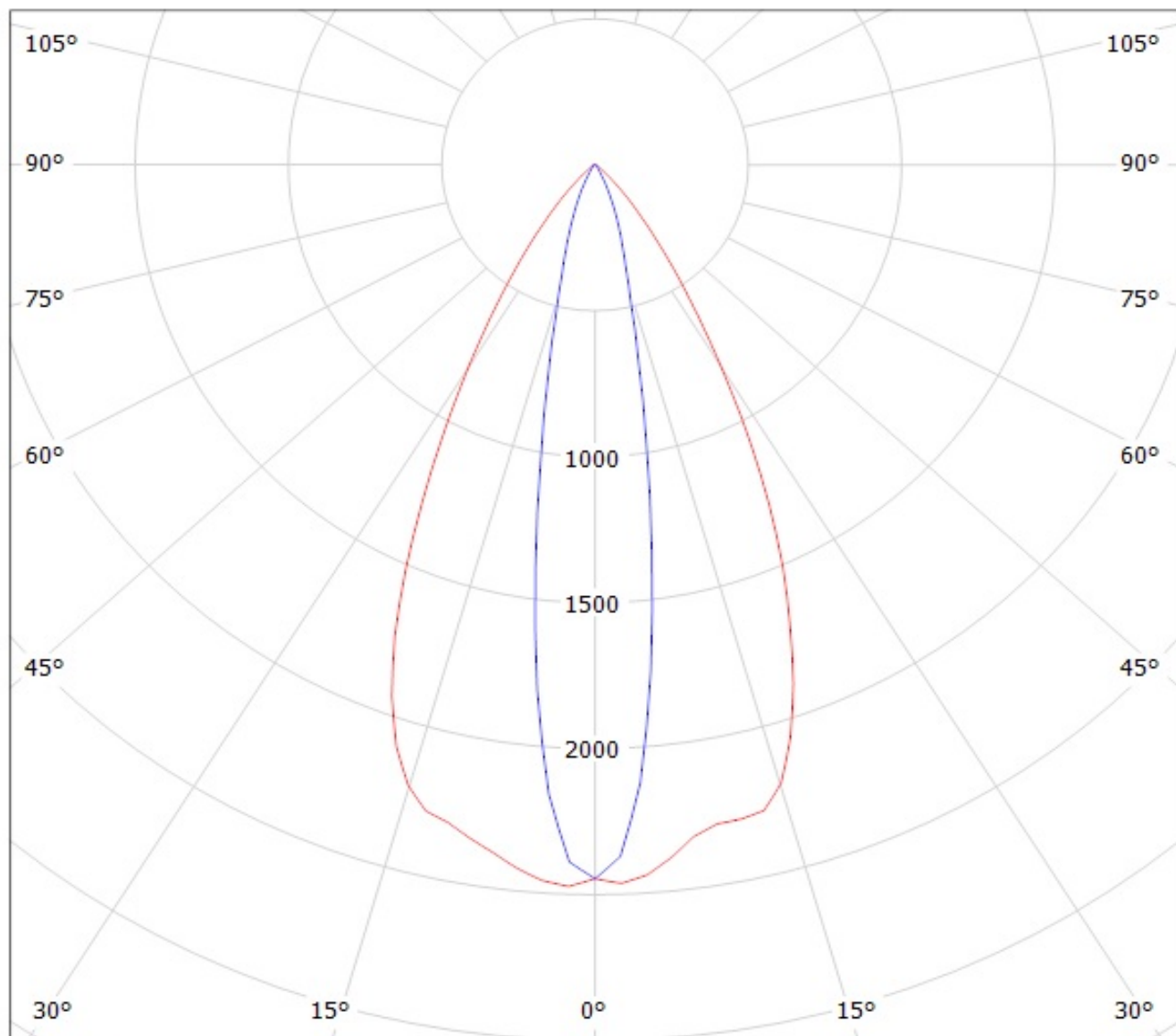


cd/klm

— C0 - C180

— C90 - C270

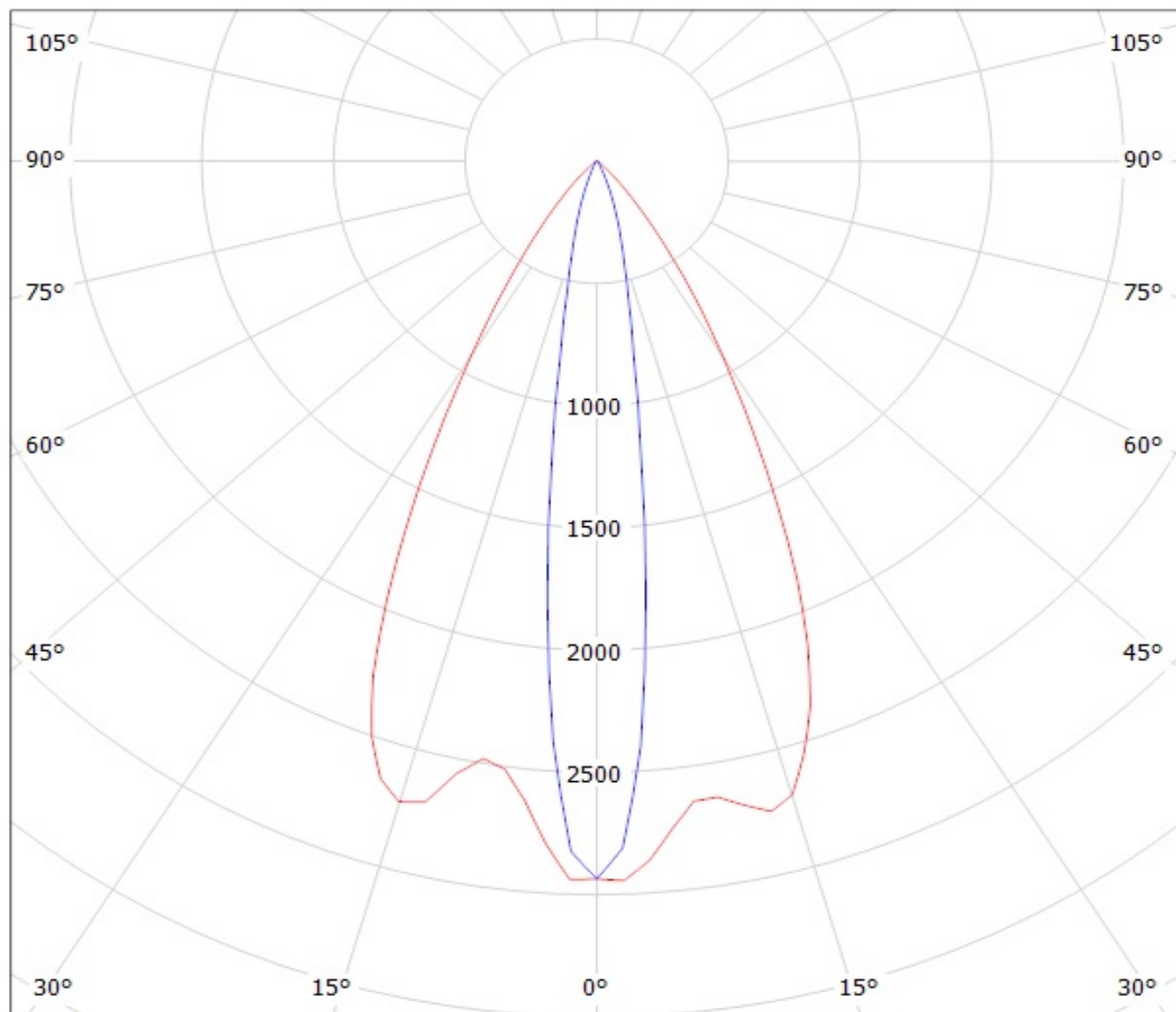
Luminaire: Ledil Oy C13529_VERONICA-O_(XM-L) Efficiency=83%
Lamps: 1 x Cree XM-L (XMLAWT-00-0000-0000T6051) 101lm @ 250mA CCT=8900K P=0.7W I=250mA



cd/klm

— C0 - C180 — C90 - C270

Luminaire: Ledil Oy C13529_VERONICA-O_(XT-E) Efficiency=81%
Lamps: 1 x Cree XT-E (XTEAWT-00-0000-00000HBE8) 74lm @ 250mA CCT=2800K P=0.8W I=250mA

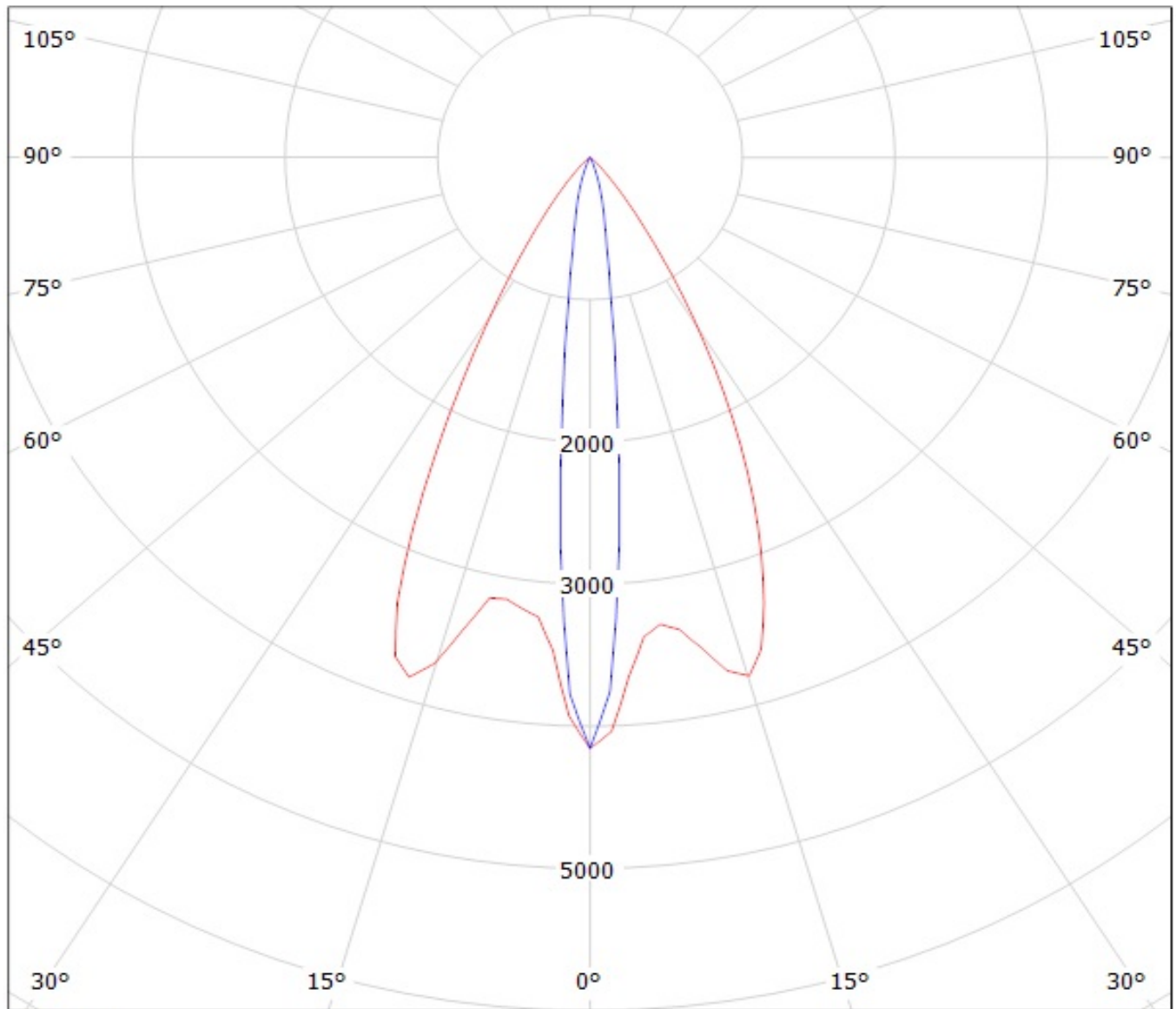


cd/klm

— C0 - C180 — C90 - C270

Luminaire: LEDil Oy C13529_VERONICA-O_(XP-E) Efficiency=83%

Lamps: 1 x Cree XP-E (XPEWHT-L1-3C0-Q5-0-06) 78lm @ 250mA CCT=5500K P=0.8W I=250mA

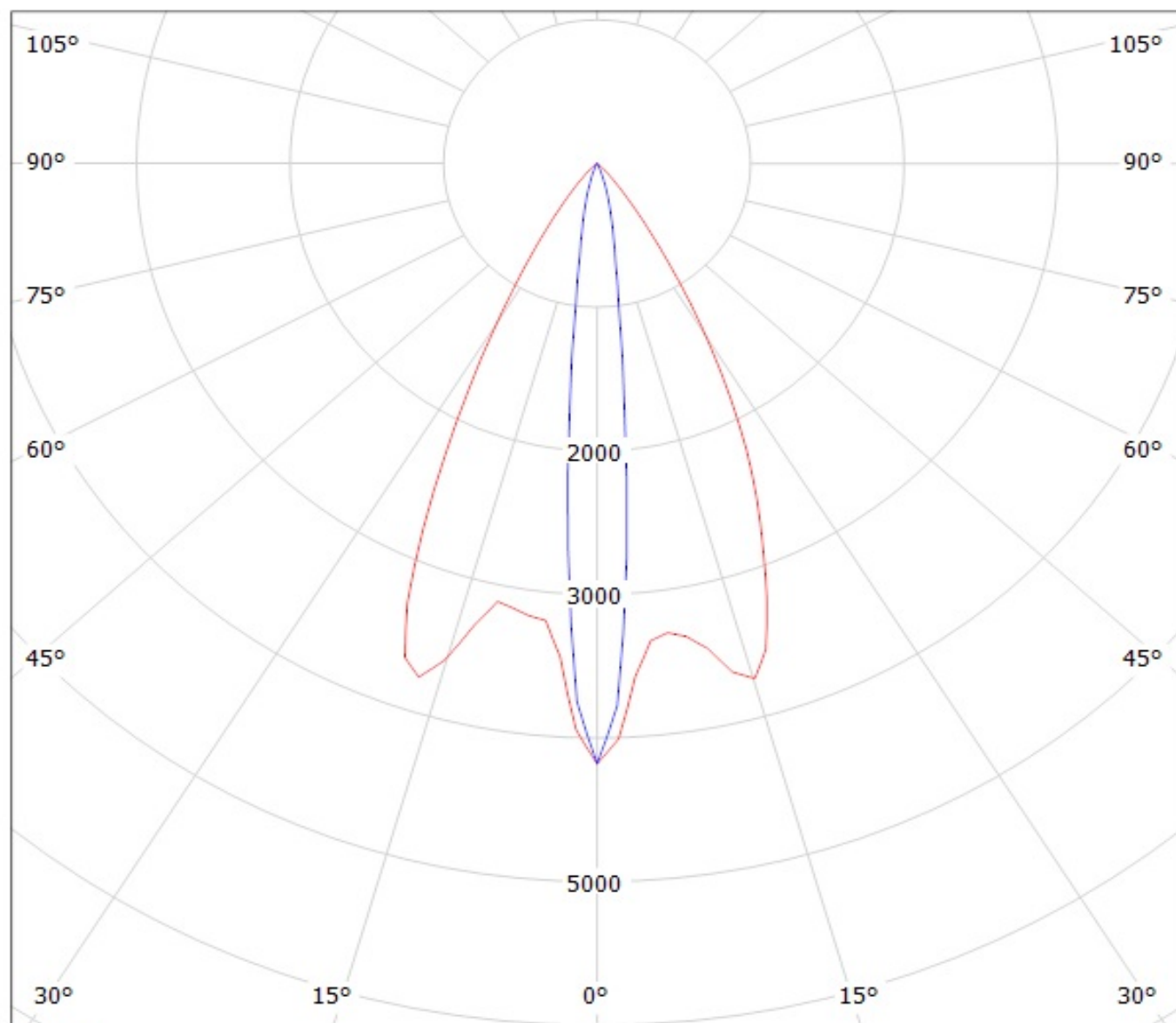


cd/klm

— C0 - C180

— C90 - C270

Luminaire: LEDil Oy C13529_Veronica-O_(XP-E2) Efficiency=84%
Lamps: 1 x Cree XP-E2 (XPEBWT-L1-7B4-Q4-0-01) 84lm @ 250mA CCT=3200K P=0.7W I=250mA



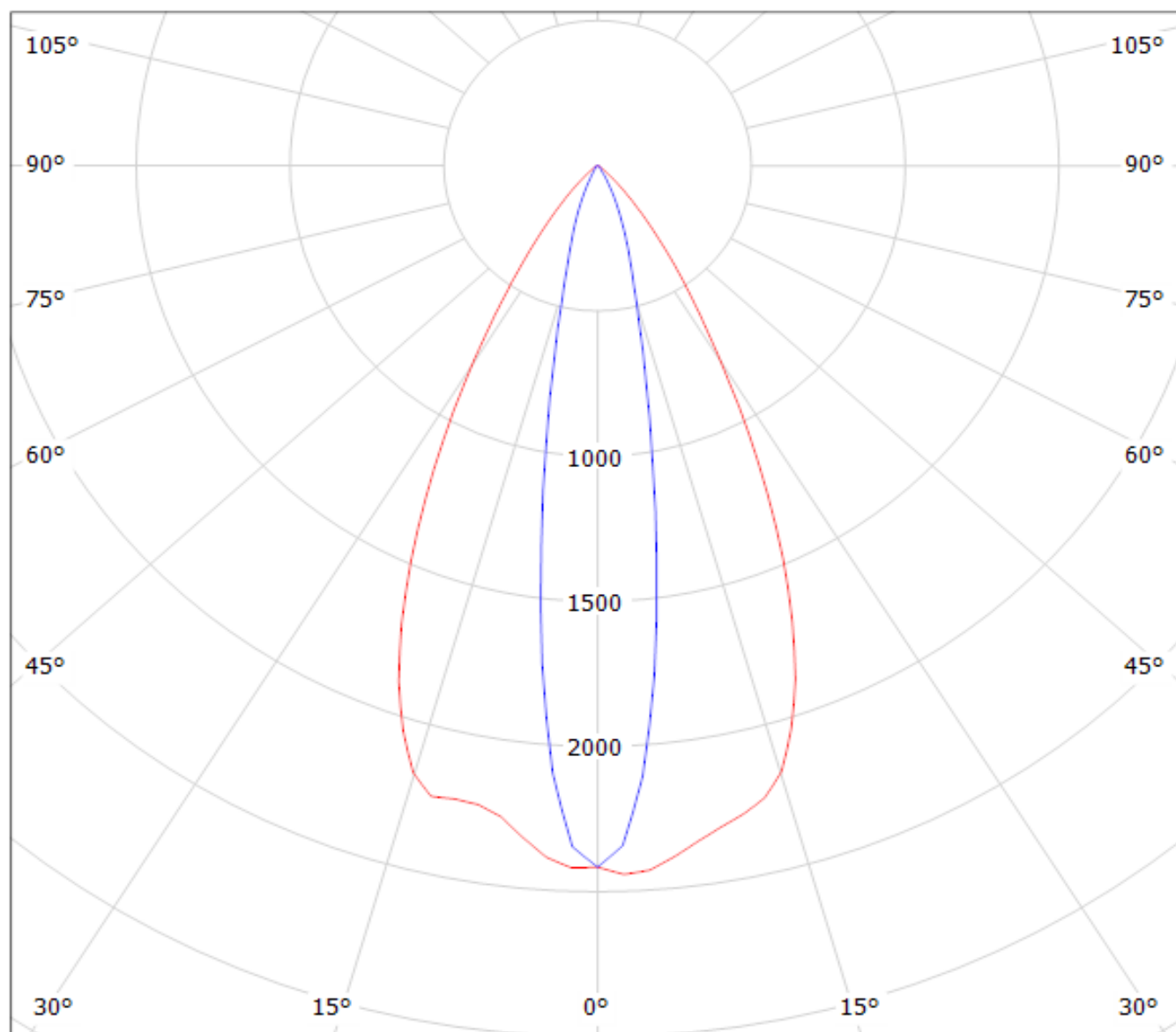
cd/klm

— C0 - C180

— C90 - C270

Luminaire: LEDil Oy C13529_Veronica-O_(XM-L2) Efficiency=82%

Lamps: 1 x Cree XM-L2 (XMLBWT-0-7B4-T30-0L-0001) 91lm @ 250mA CCT=3200K P=0.7W I=250mA

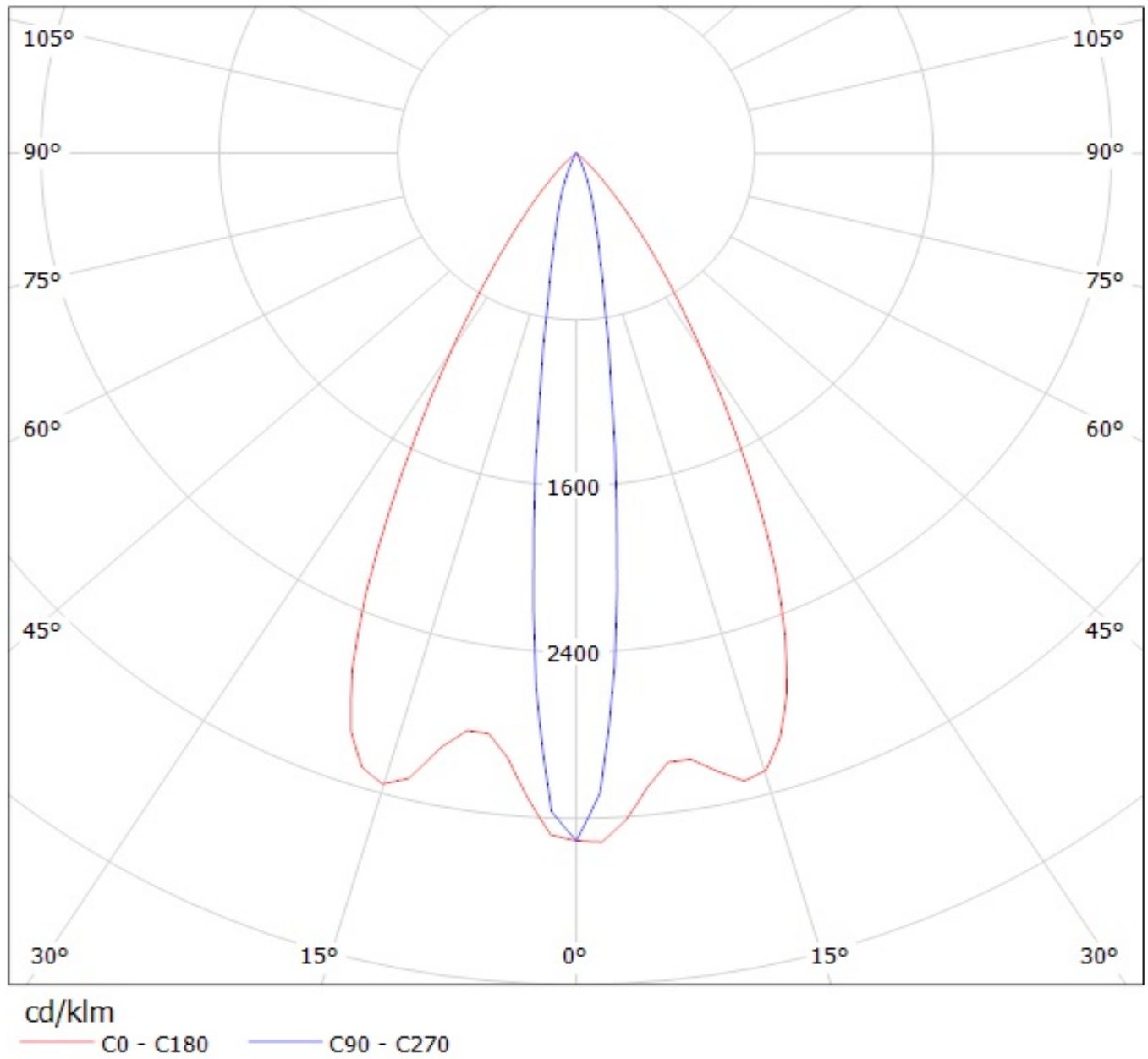


cd/klm

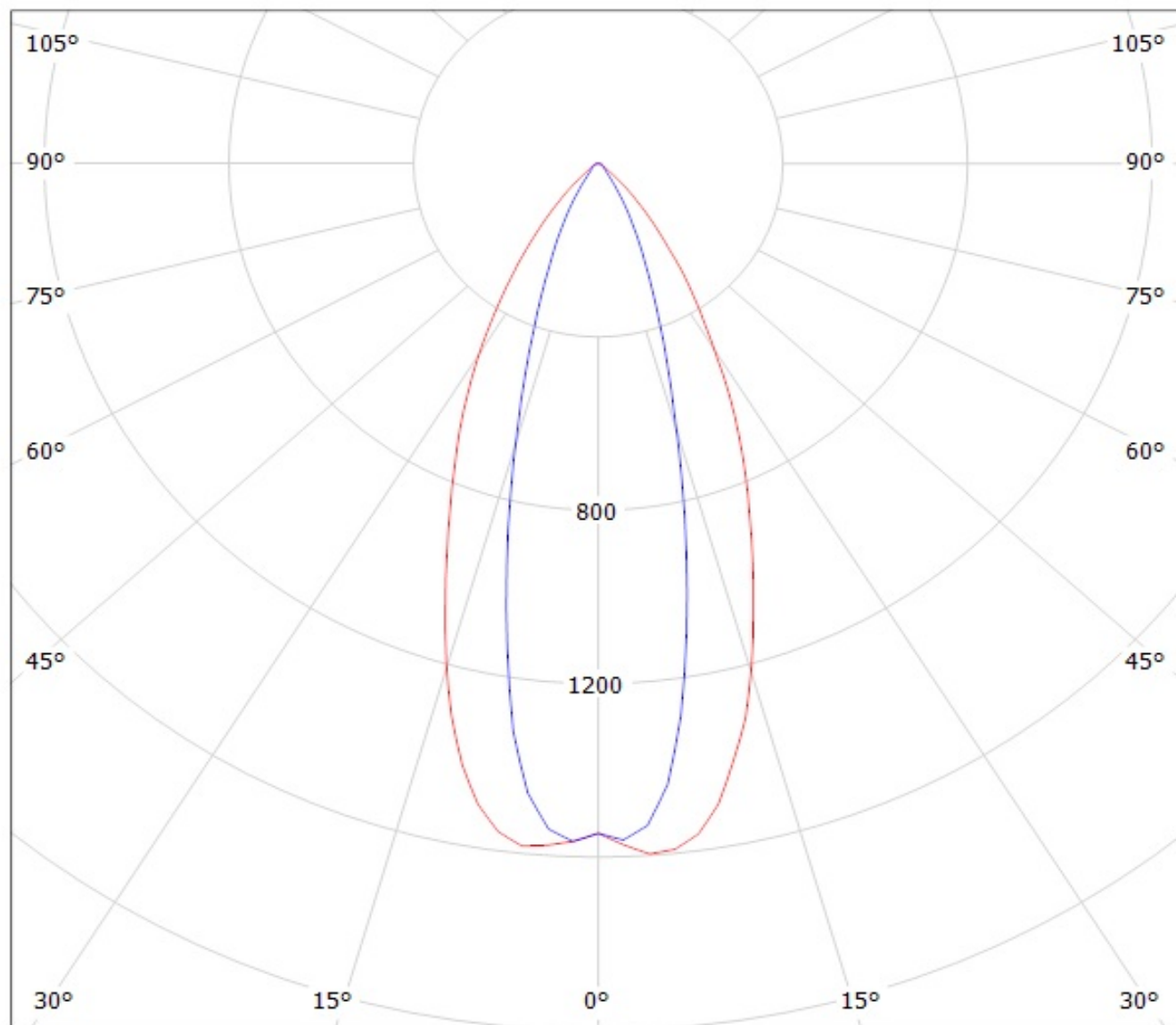
— C0 - C180

— C90 - C270

Luminaire: LEDil Oy C13529_VERONICA-O_(XP-G) Efficiency=83%
Lamps: 1 x Cree XP-G (XPGWHT-L1-CWPI-00BE7) 67lm @ 250mA CCT=3100K P=0.8W I=250mA



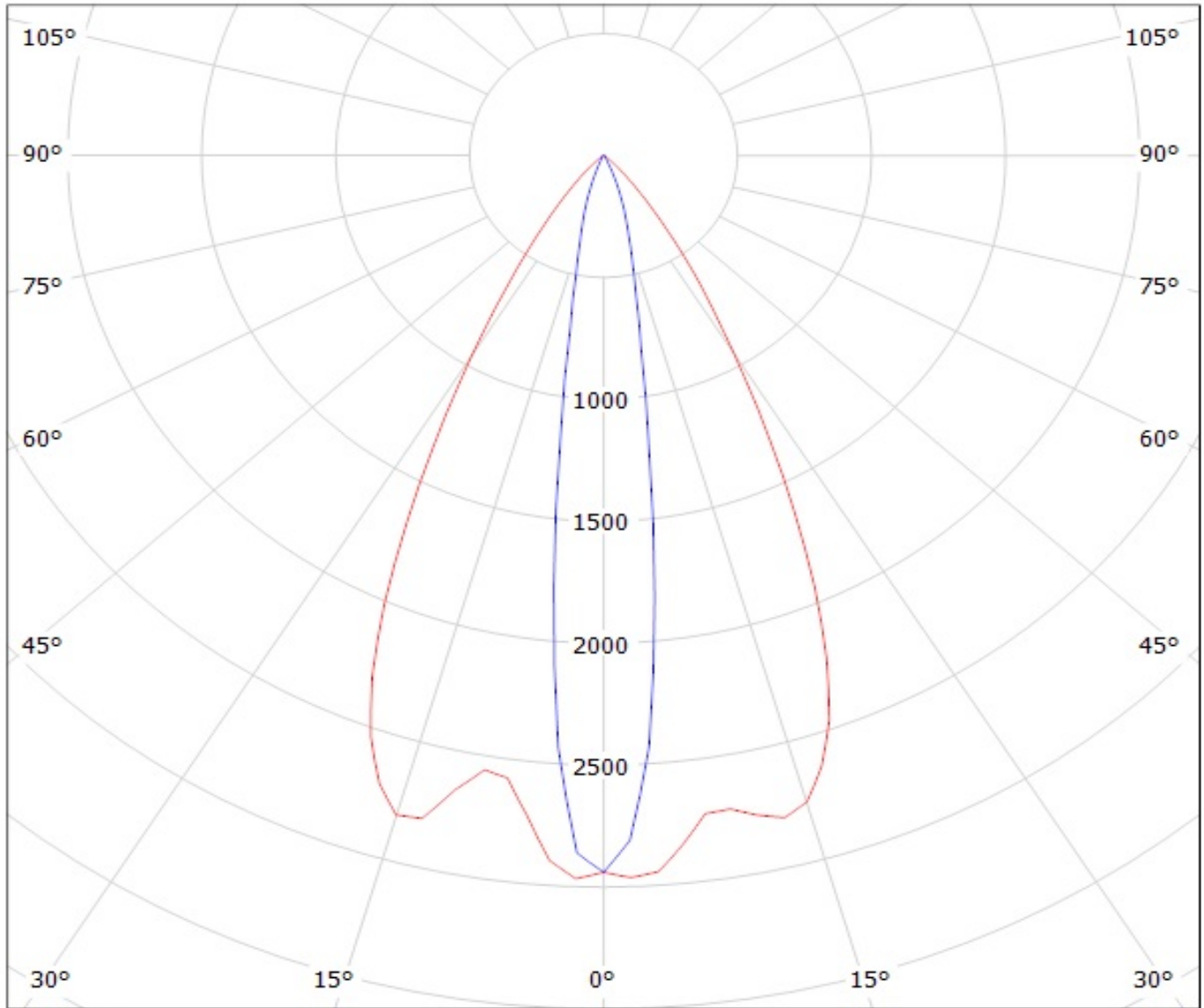
Luminaire: LEDil Oy C13529_VERONICA-O_(MK-R) Efficiency=80%
Lamps: 1 x Cree MK-R (353lm @ 250mA) CCT=3300K P=2.8W I=250mA



cd/klm

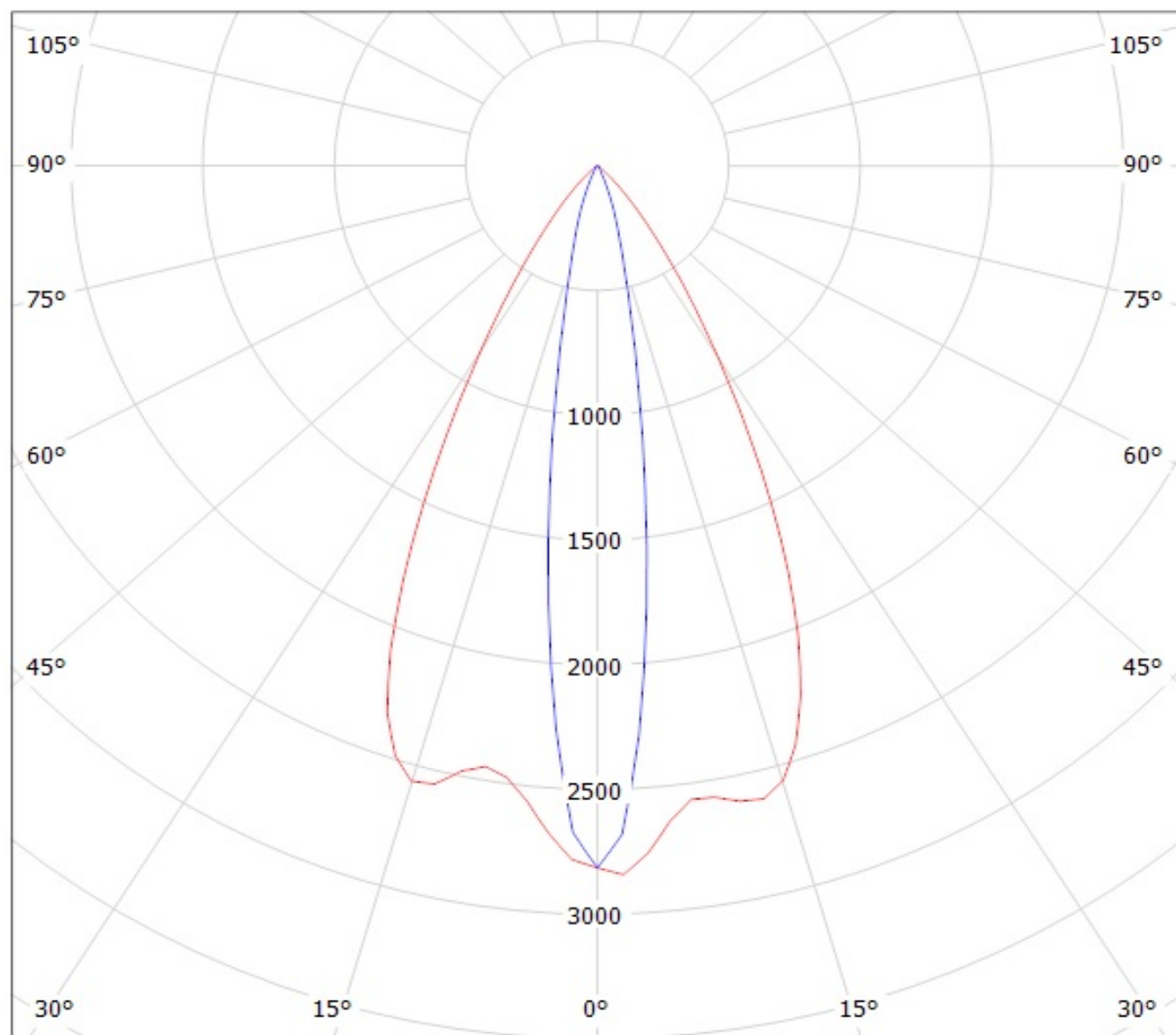
— C0 - C180 — C90 - C270

Luminaire: Ledil Oy C13529_VERONICA-O_(3535_Ceramic_3W) Efficiency=81%
Lamps: 1 x LG 3535 Ceramic 3W (LEMWA33) 90lm @ 250mA CCT=6900K P=0.7W I=250mA



cd/klm
— C0 - C180 — C90 - C270

Luminaire: LEDil Oy C13529_Veronica-O_(Luxeon_R) Efficiency=81%
Lamps: 1 x Luxeon R (LXA7-PW30) 73lm @ 250mA CCT=3000K P=0.7W I=250mA

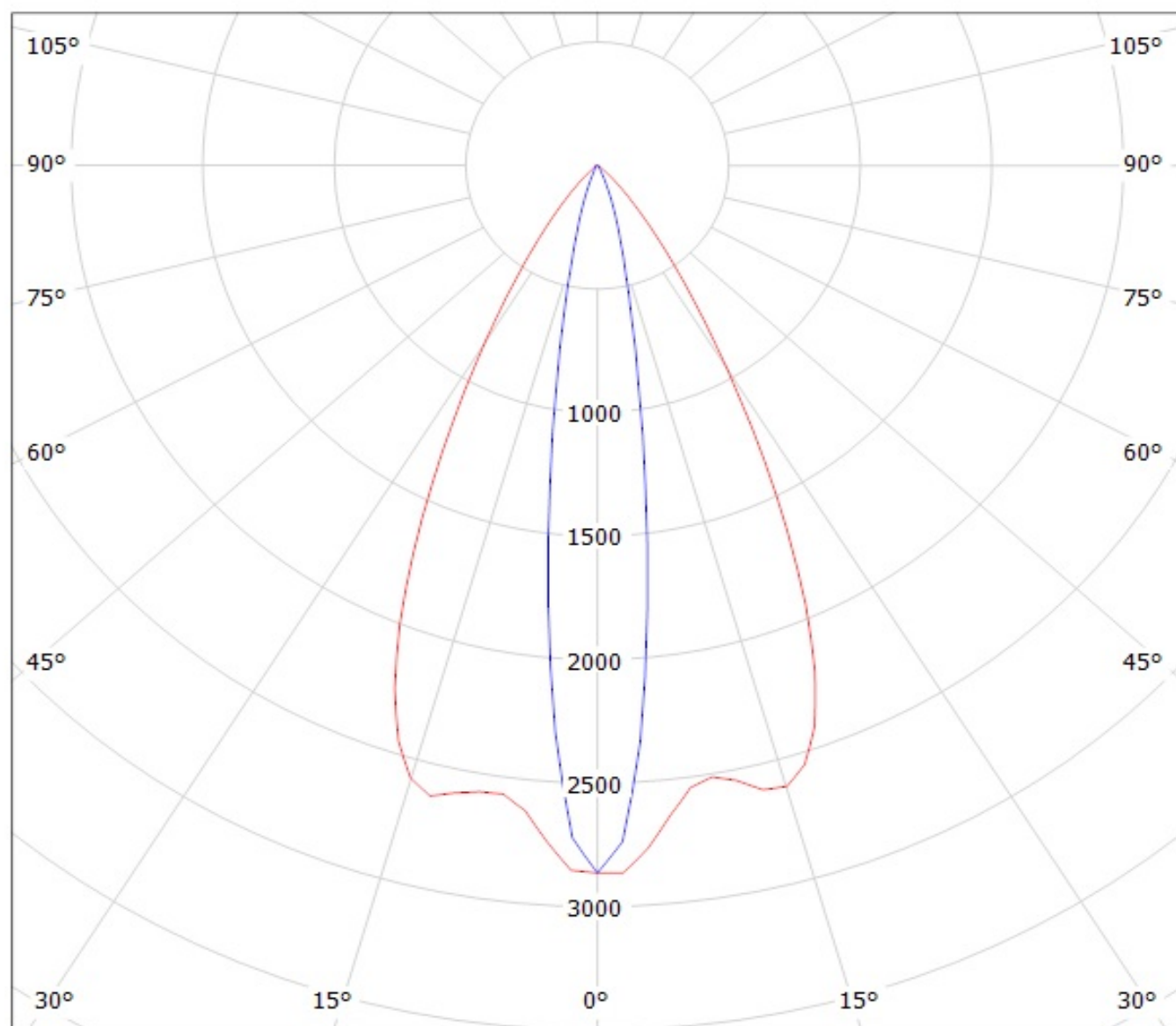


cd/klm

— C0 - C180

— C90 - C270

Luminaire: Ledil Oy C13529_VERONICA-O_LED_(Luxeon_A) Efficiency=82%
Lamps: 1 x Luxeon A (66lm @ 250mA) CCT=2900K P=0.8W I=250mA

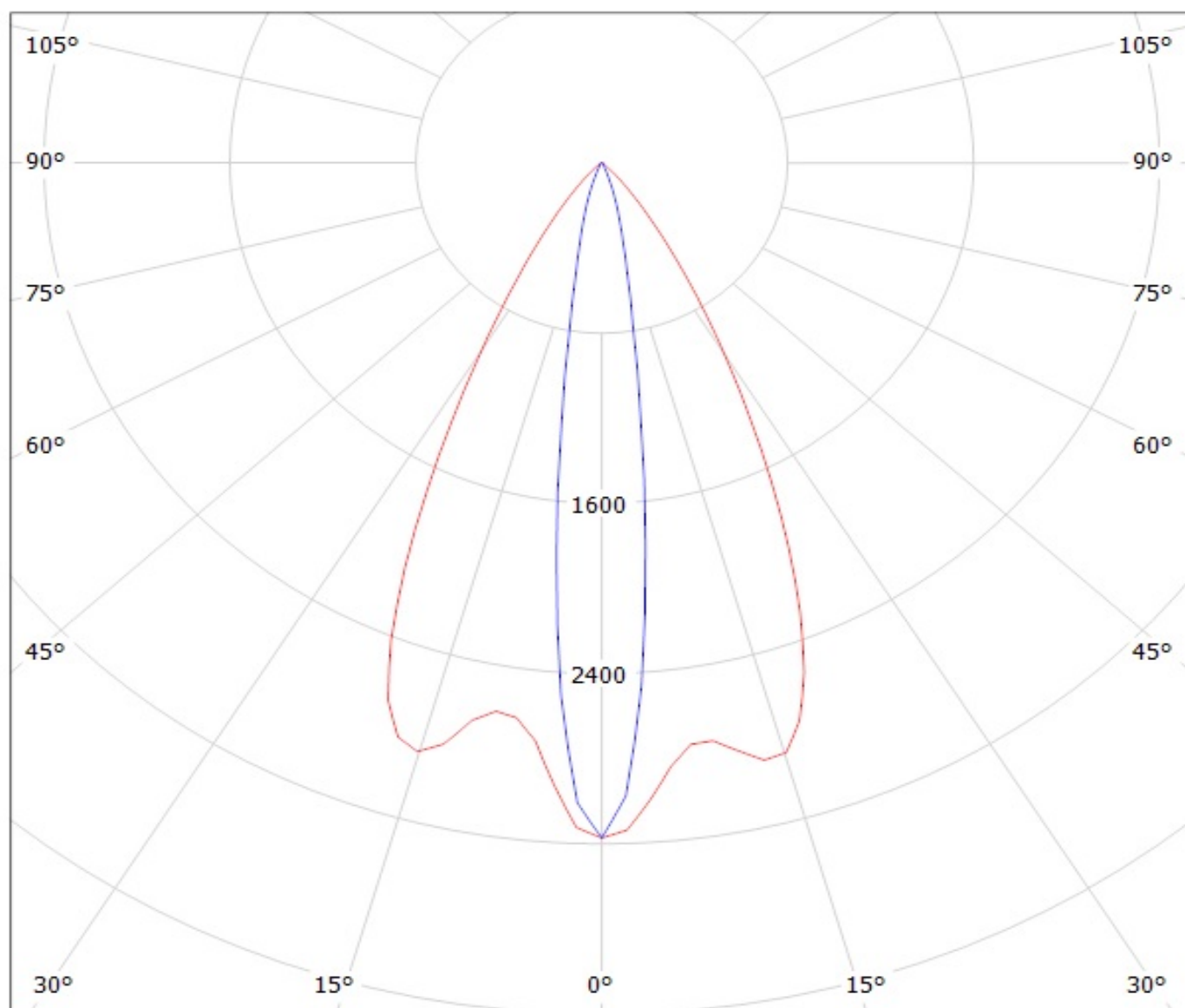


cd/klm

— C0 - C180

— C90 - C270

Luminaire: LEDil Oy C13529_Veronica-O_(Luxeon_Rebel) Efficiency=82%
Lamps: 1 x Luxeon Rebel (LXM8-PW30) 61lm @ 250mA CCT=2900K P=0.7W I=250mA

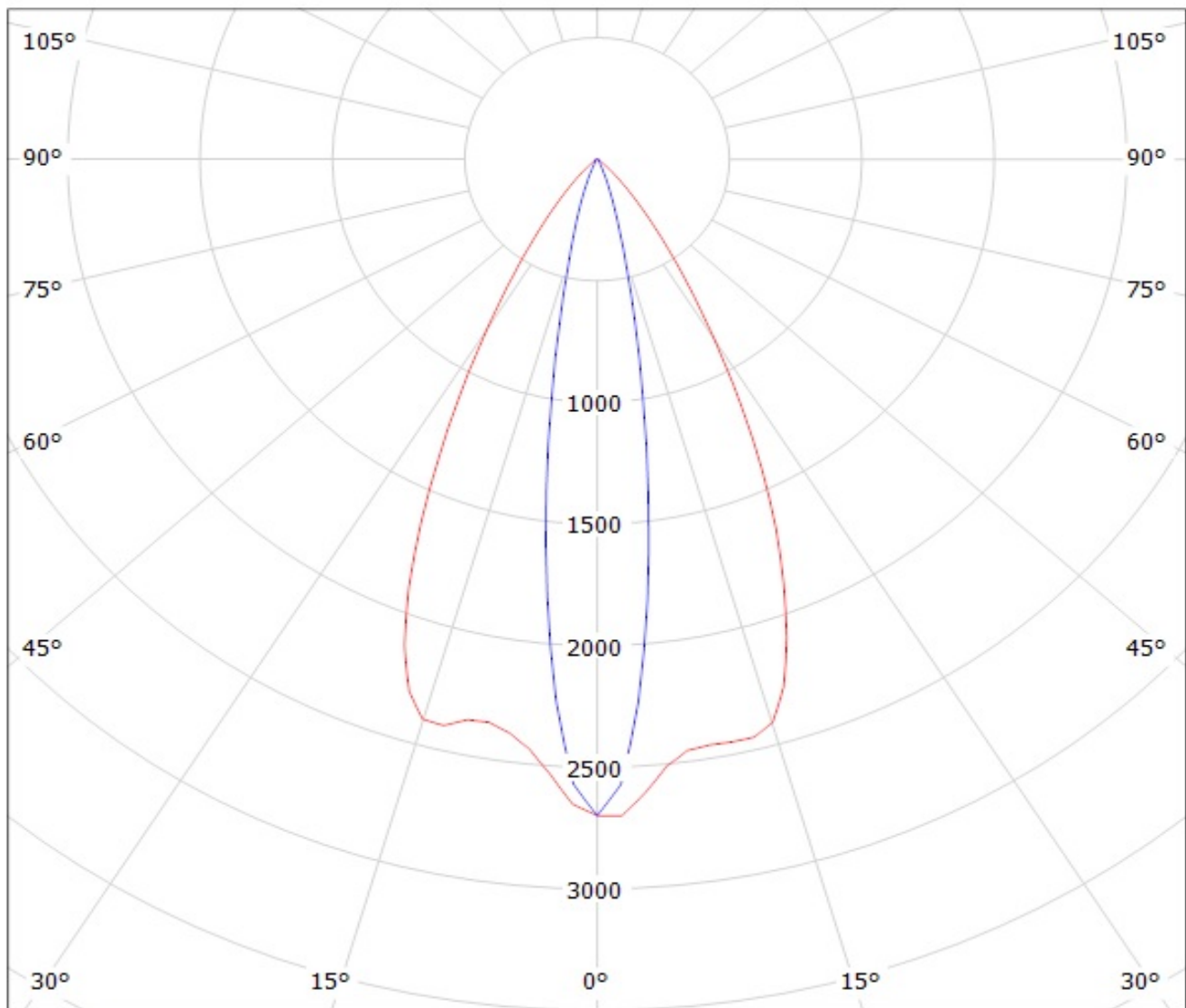


cd/klm

— C0 - C180

— C90 - C270

Luminaire: Ledil Oy C13529_VERONICA-O_LED_(Luxeon_Rebel_ES) Efficiency=81%
Lamps: 1 x Luxeon Rebel ES (91lm @ 250mA) CCT=4100K P=0.8W I=250mA

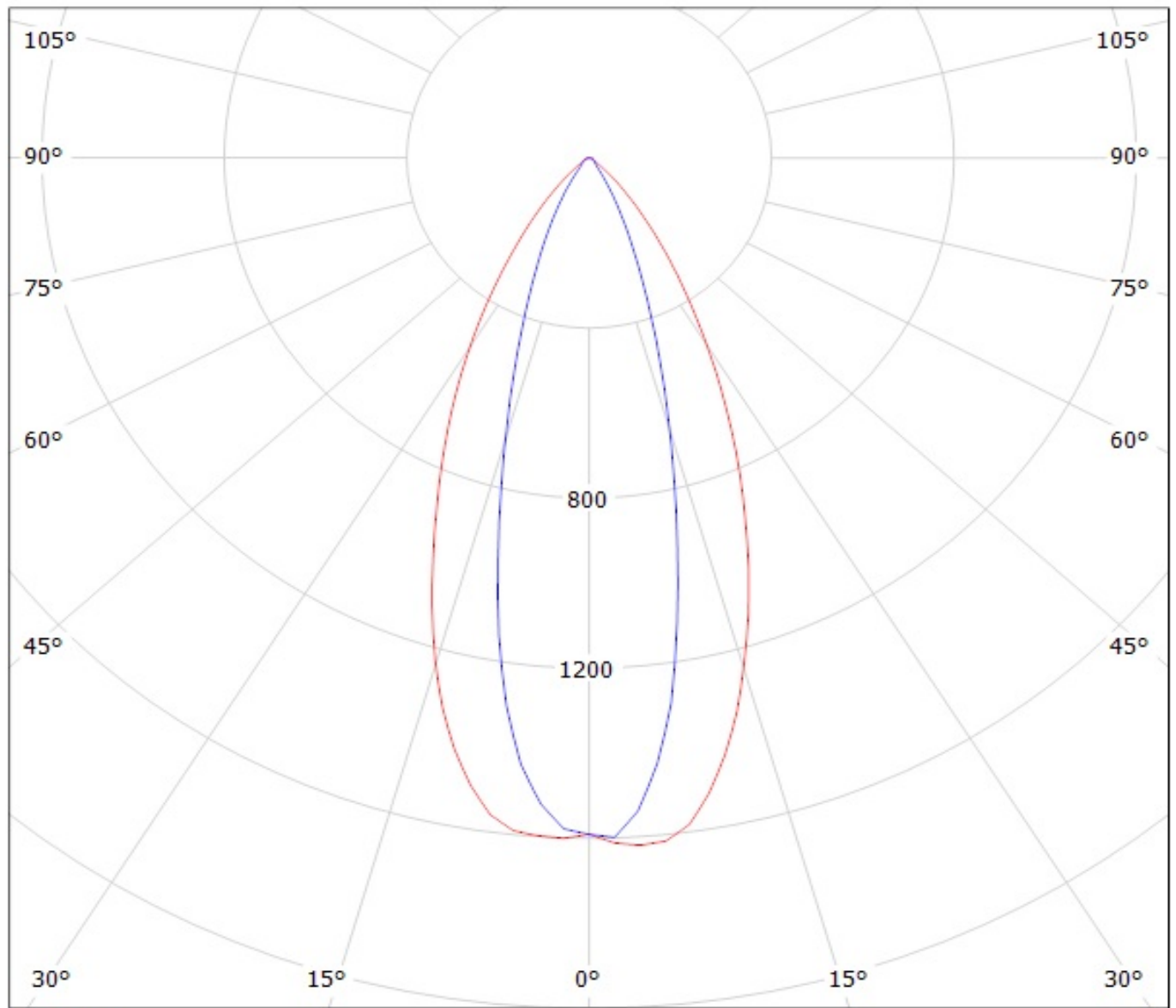


cd/klm

— C0 - C180

— C90 - C270

Luminaire: LEDil Oy C13529_Veronica-O_(Luxeon M) Efficiency=79%
Lamps: 1 x Luxeon M (LXR7-SW30) 368lm @ 250mA CCT=3100K P=2.8W I=250mA

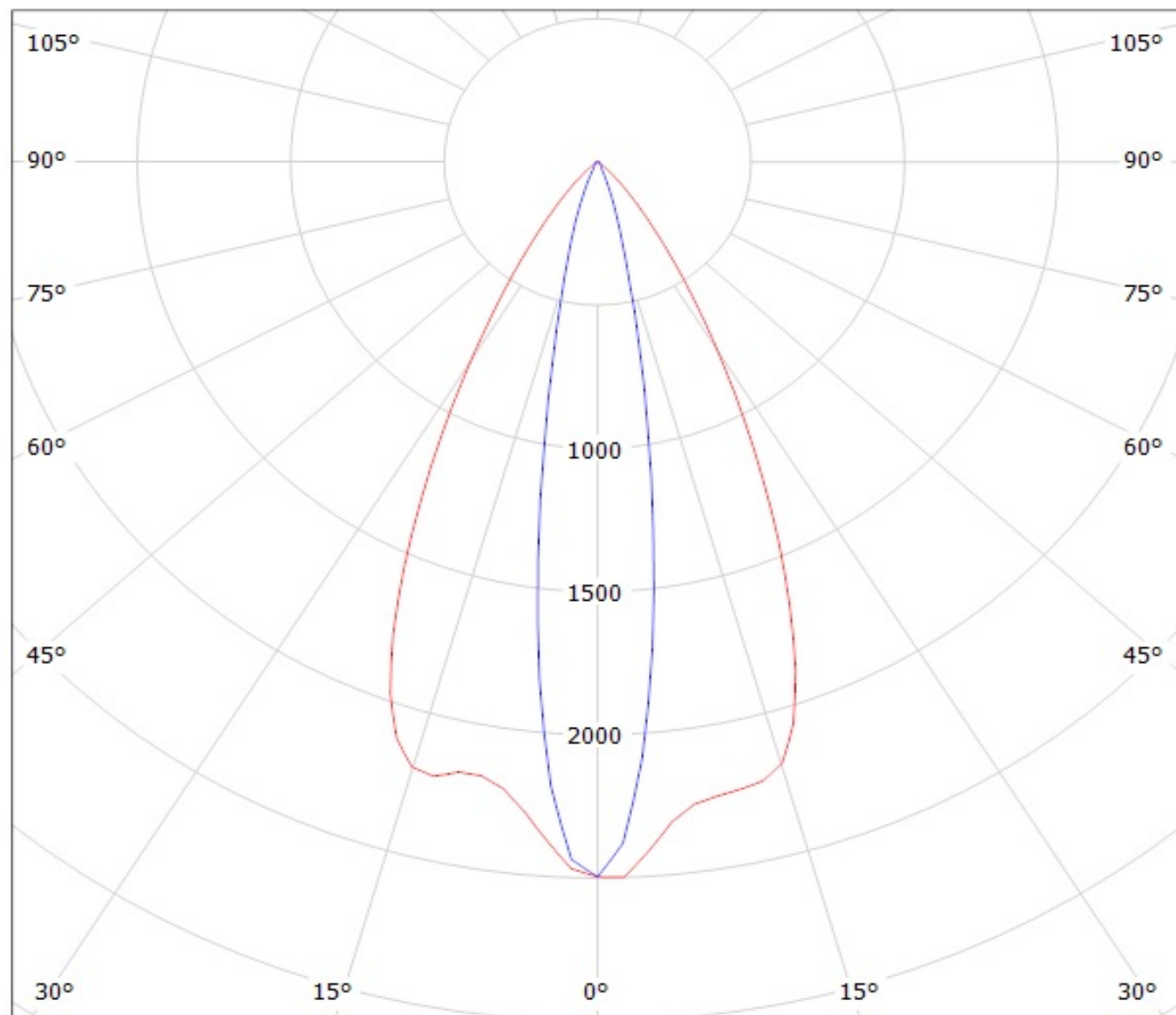


cd/klm

— C0 - C180

— C90 - C270

Luminaire: LEDil Oy C13529_VERONICA-O_(NVSxx19A) Efficiency=79%
Lamps: 1 x Nichia NVSxx19A (NVSW219ATE) 93lm @ 250mA CCT=5010K P=0.7W I=250mA

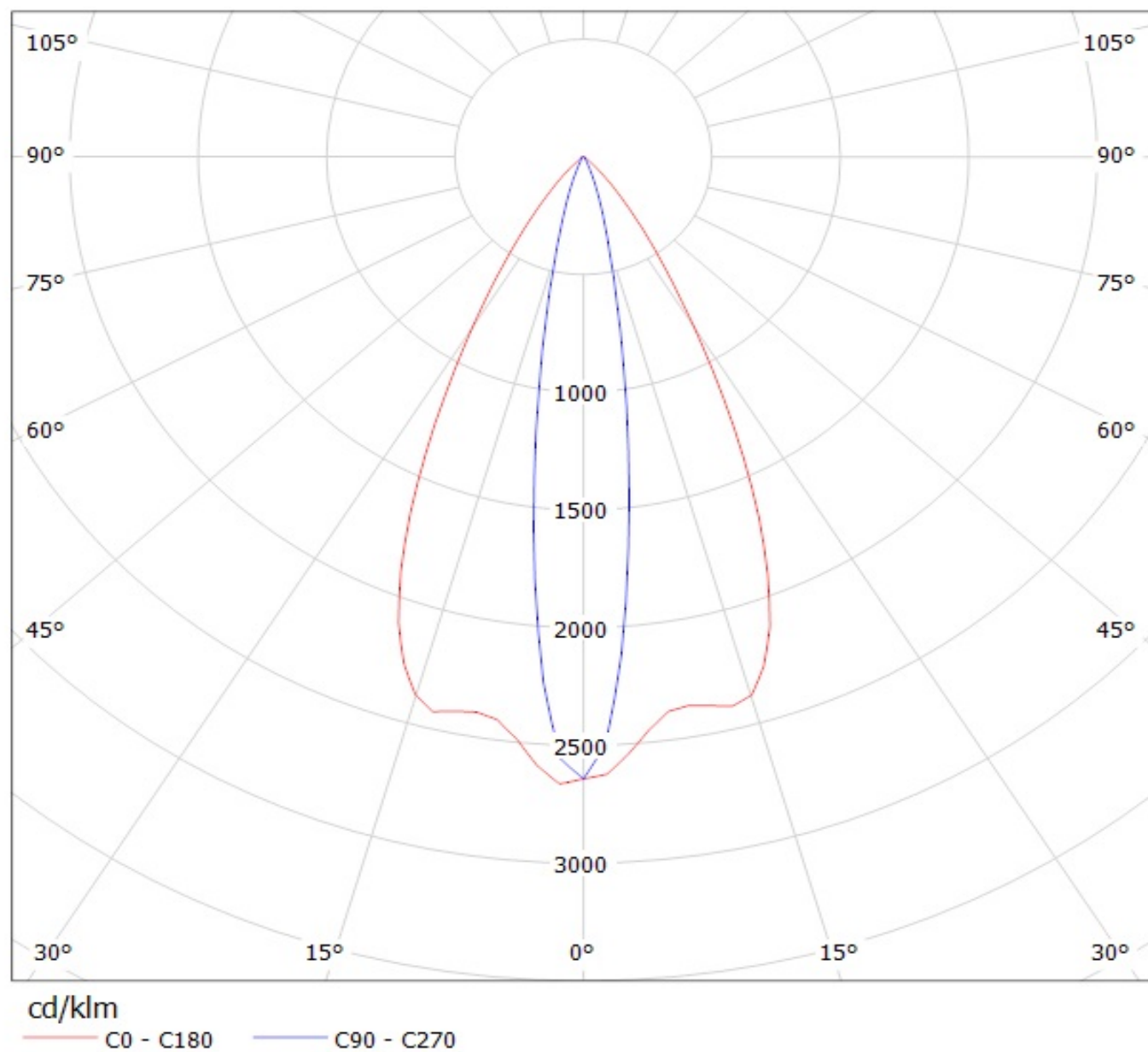


cd/klm

— C0 - C180

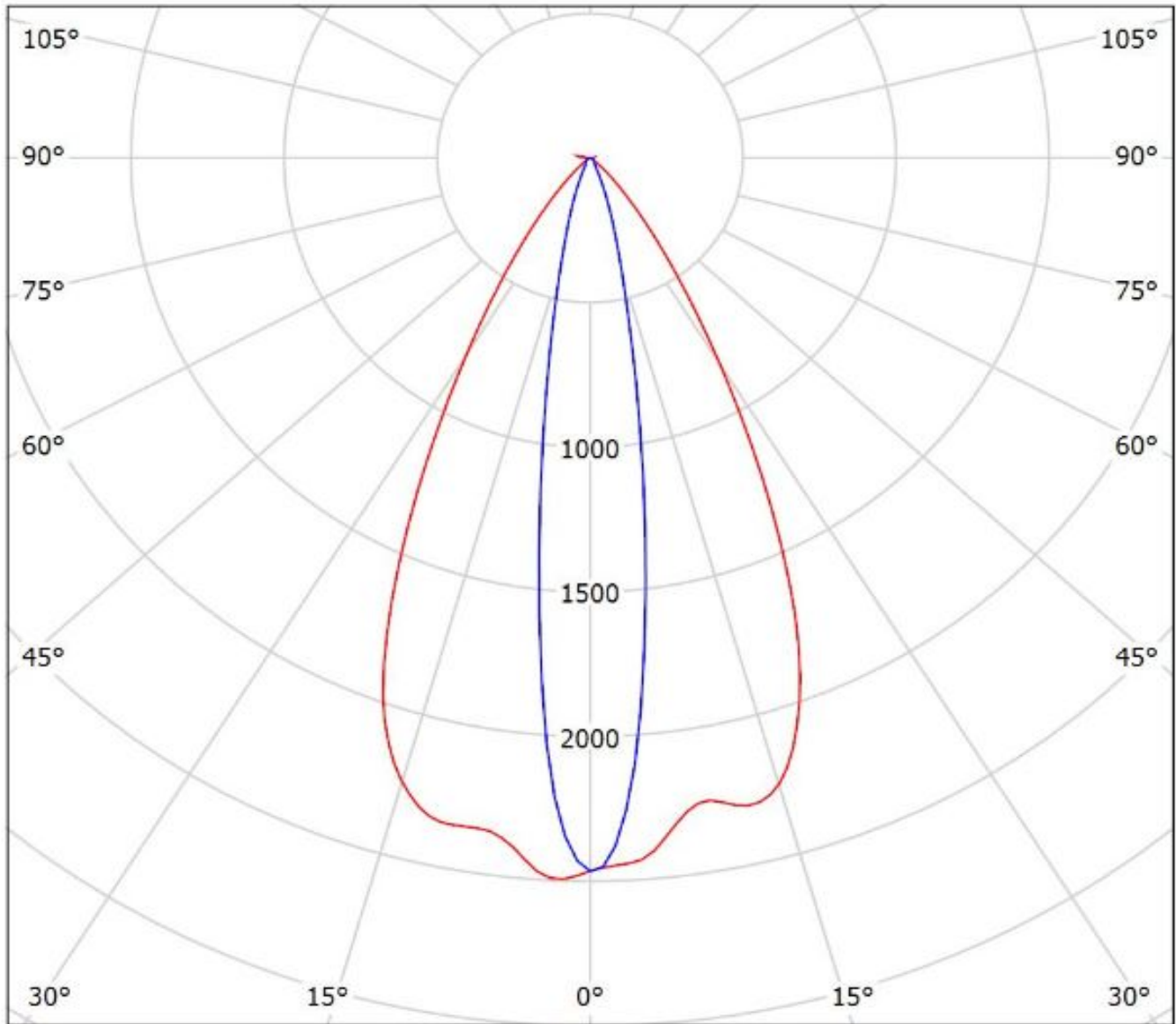
— C90 - C270

Luminaire: Ledil Oy C13529_VERONICA-O_(NVSxx19B) Efficiency=79%
Lamps: 1 x Nichia NVSxx19B (NVSL219BT) 106lm @ 250mA CCT=4300K P=0.7W I=250mA



Luminaire: LEDiL Oy C13529_VERONICA-O_(NVSW3x9A)

Lamps: 1 x Nichia_NVSW3x9A_(sm405/R70)_122.334lm@250mA_P=0.705435W_I=0.250A

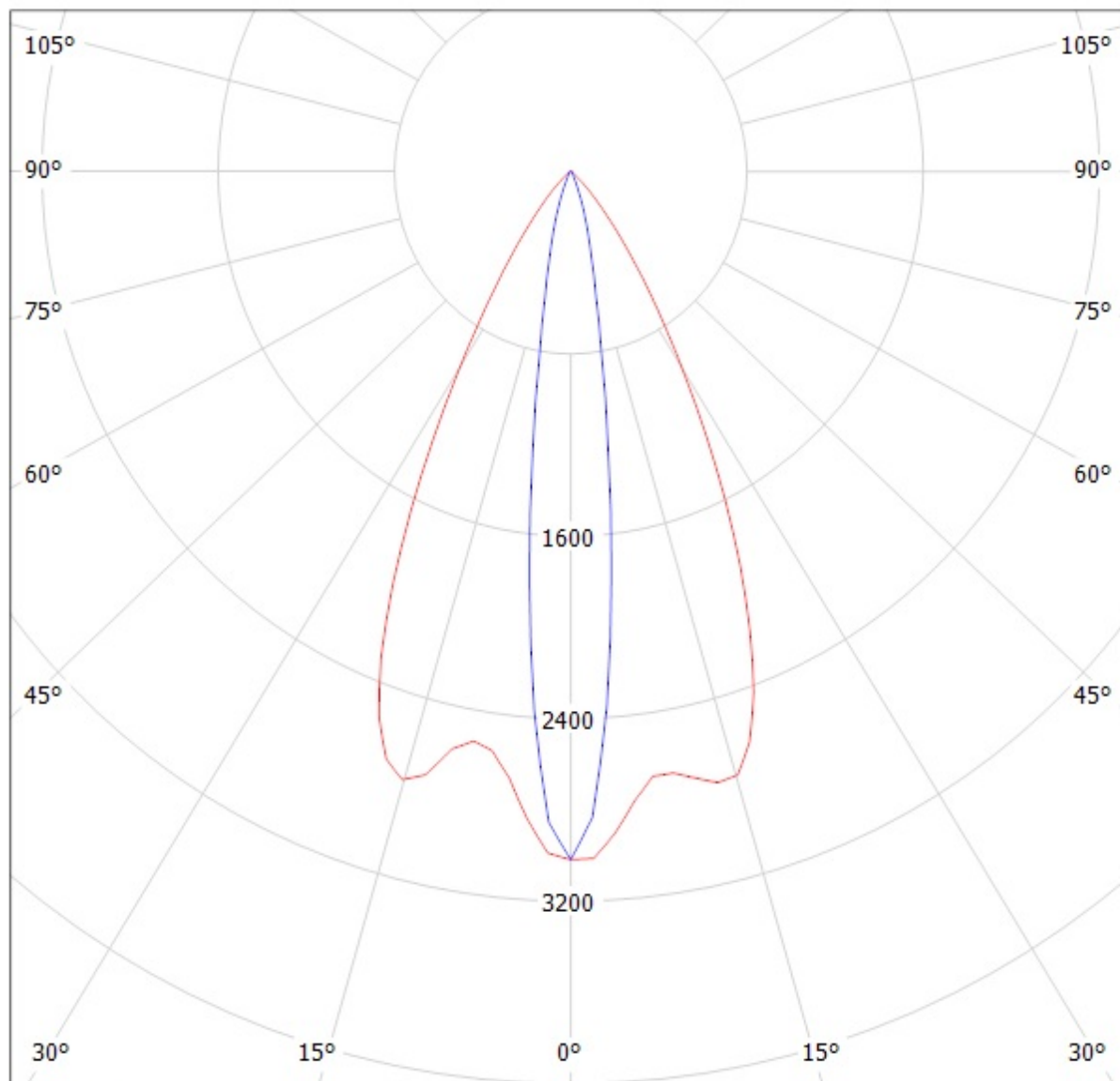


cd/klm

— C0 - C180 — C90 - C270

$\eta = 80\%$

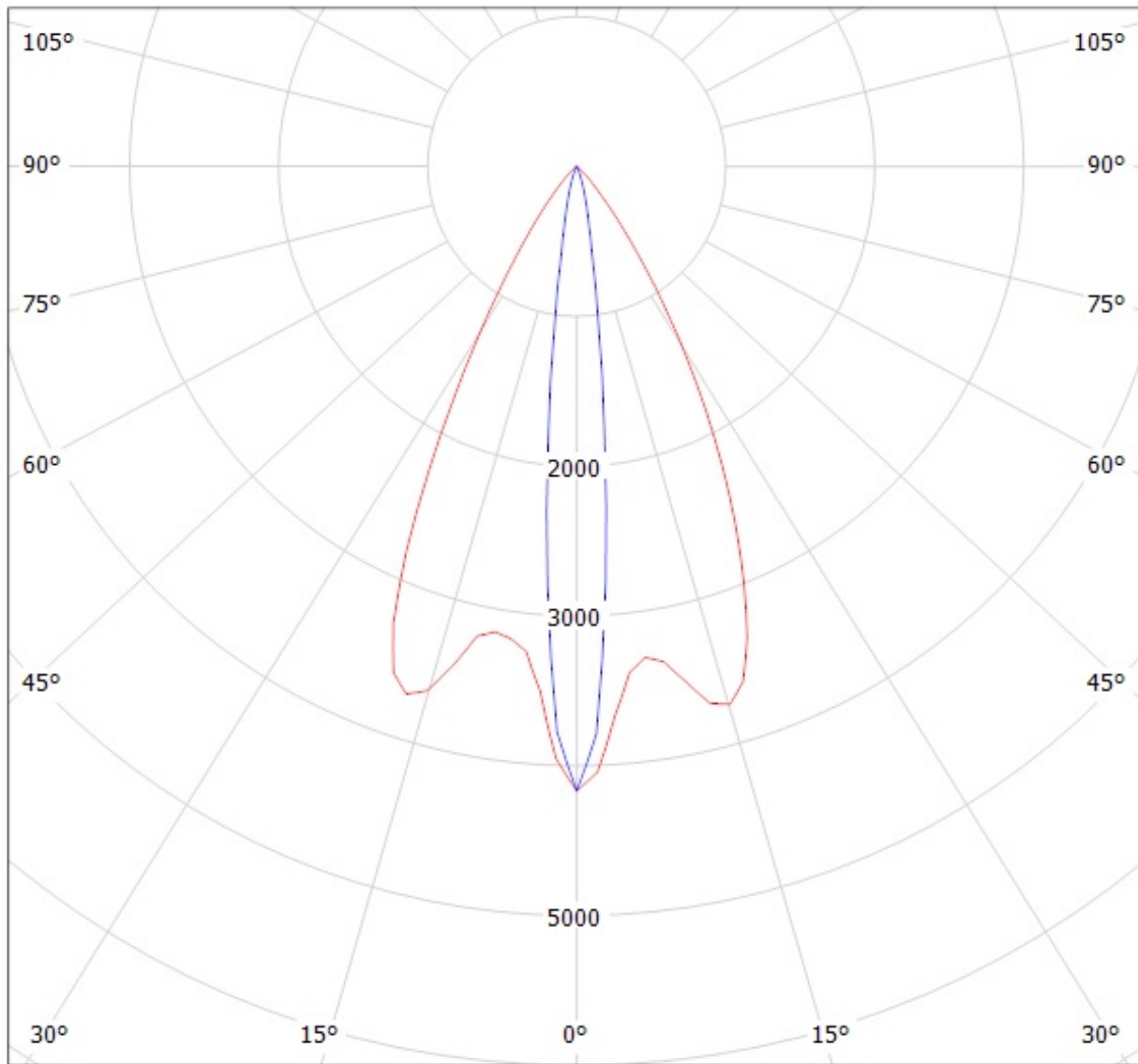
Luminaire: Ledil Oy C13529_VERONICA-O_(Oslon_Square_EC) Efficiency=81%
Lamps: 1 x Osram Oslon Square EC (LCW CQAR-EC-MQMS-5R8T-35) 79lm @ 250mA CCT=3200K P=0.8W I=250mA



cd/klm

— C0 - C180 — C90 - C270

Luminaire: LEDil Oy C13529_VERONICA-O_(Oslon_SSL_150) Efficiency=83%
Lamps: 1 x Osram Oslon SSL 150 (LCW CRUP.EC-KTLP-607Q-1) 79lm @ 250mA CCT=3700K P=0.7W I=250mA

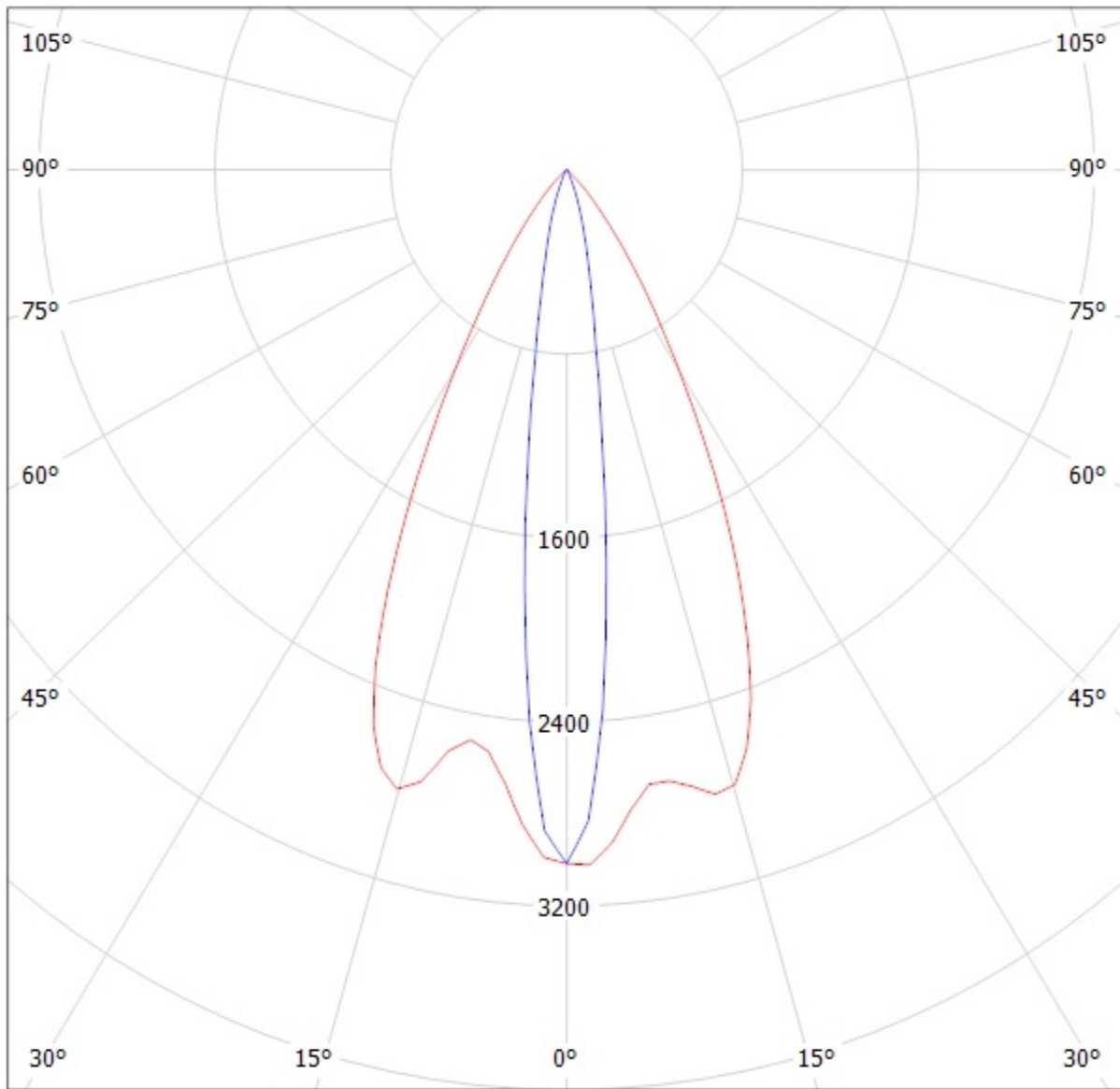


cd/klm

— C0 - C180 — C90 - C270

Luminaire: LEDil Oy C13529_Veronica-O_(Oslon_Square_PC) Efficiency=81%

Lamps: 1 x Osram Oslon Square PC (LCW CQAR.PL-MSMV-5H71-1) 101lm @ 250mA CCT=5900K P=0.8W I=250mA

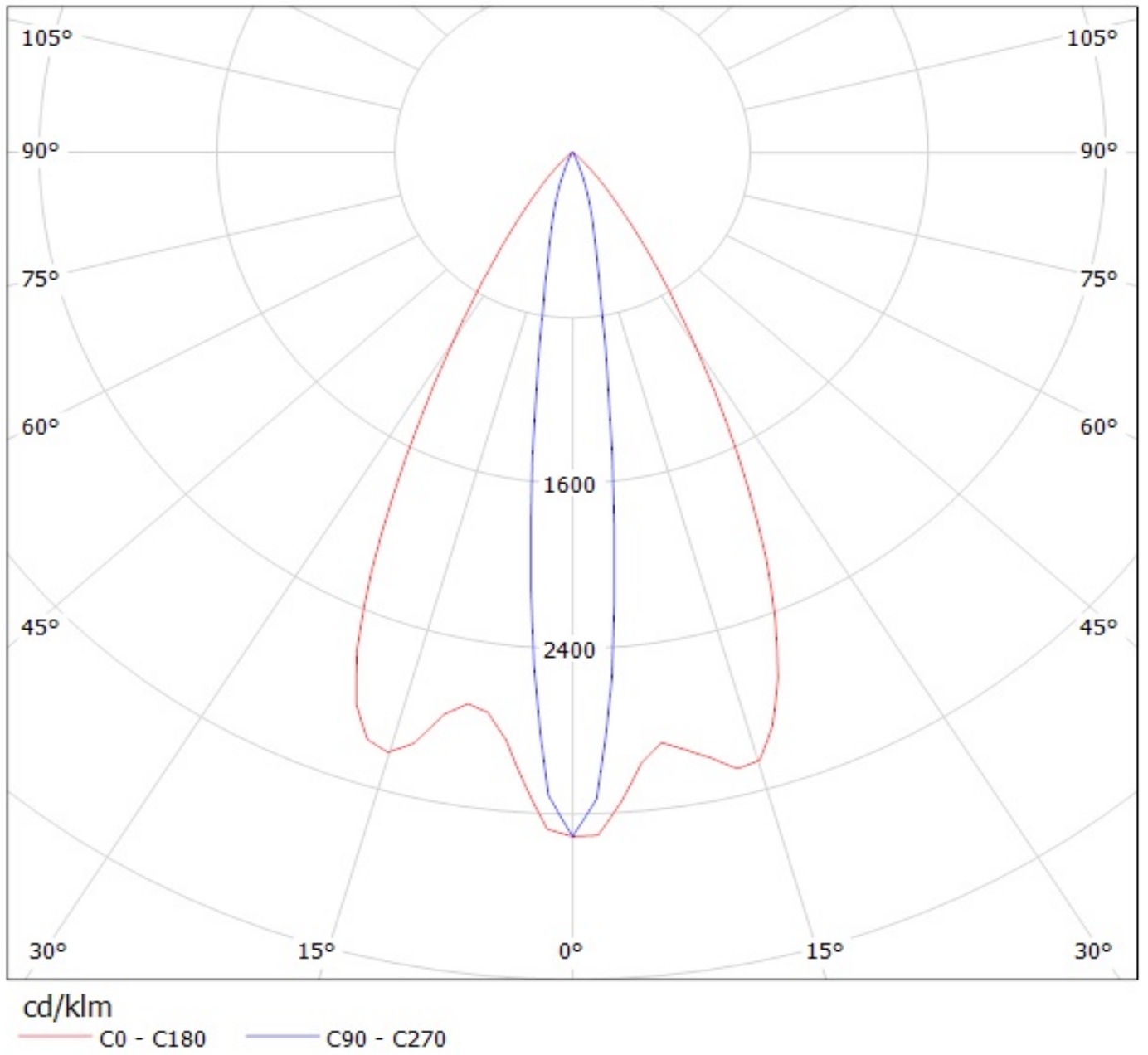


cd/klm

— C0 - C180

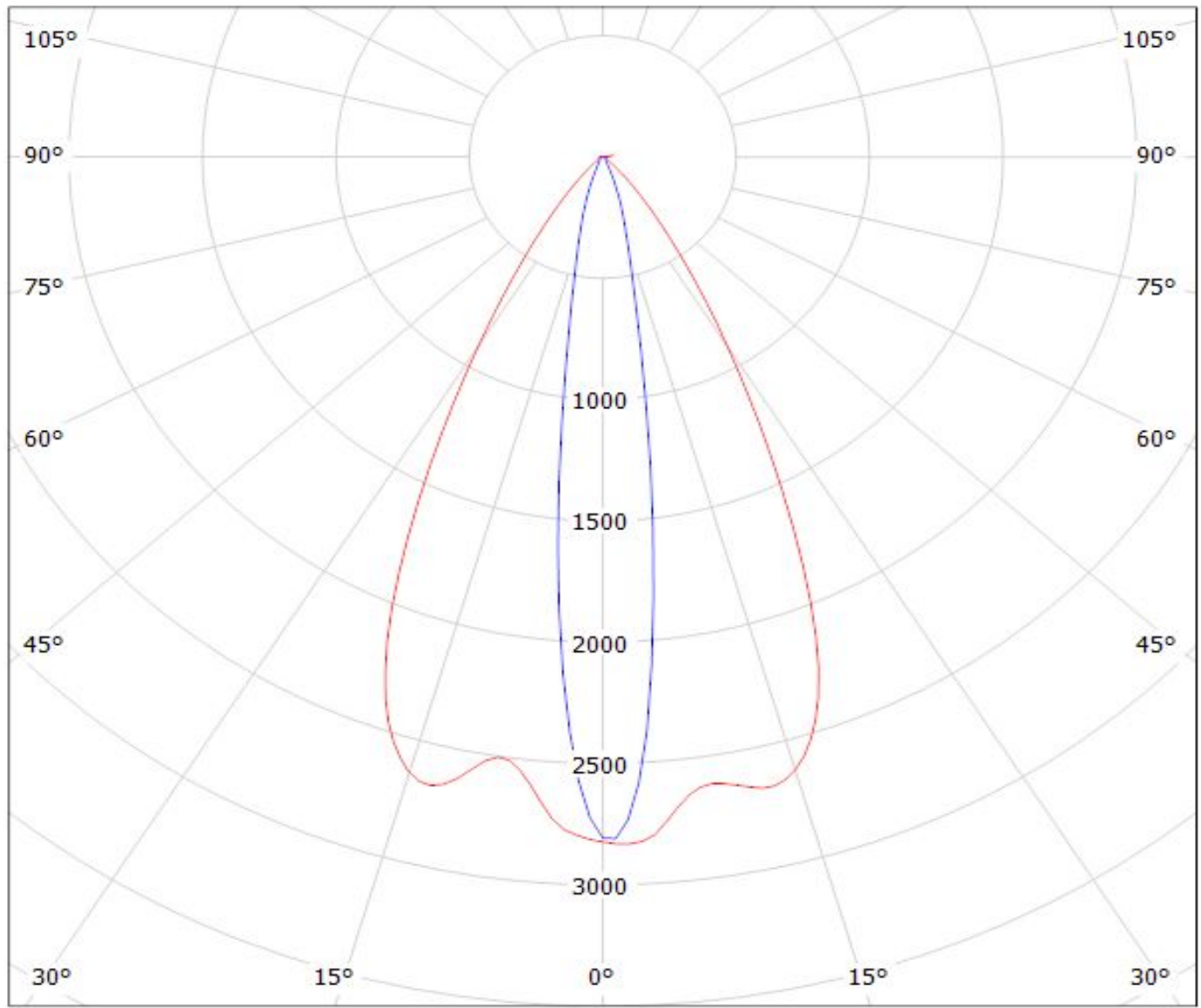
— C90 - C270

Luminaire: Ledil Oy C13529_VERONICA-O_(LH351Z) Efficiency=83%
Lamps: 1 x Samsung LH351Z (90.14lm @ 250mA) CCT=6500K P=0.7W I=250mA



Luminaire: LEDiL Oy C13529_VERONICA-O_(LH351B)

Lamps: 1 x SAMSUNG_LH351B_107.366lm@250mA_P=2.9308W_I=249.9mA



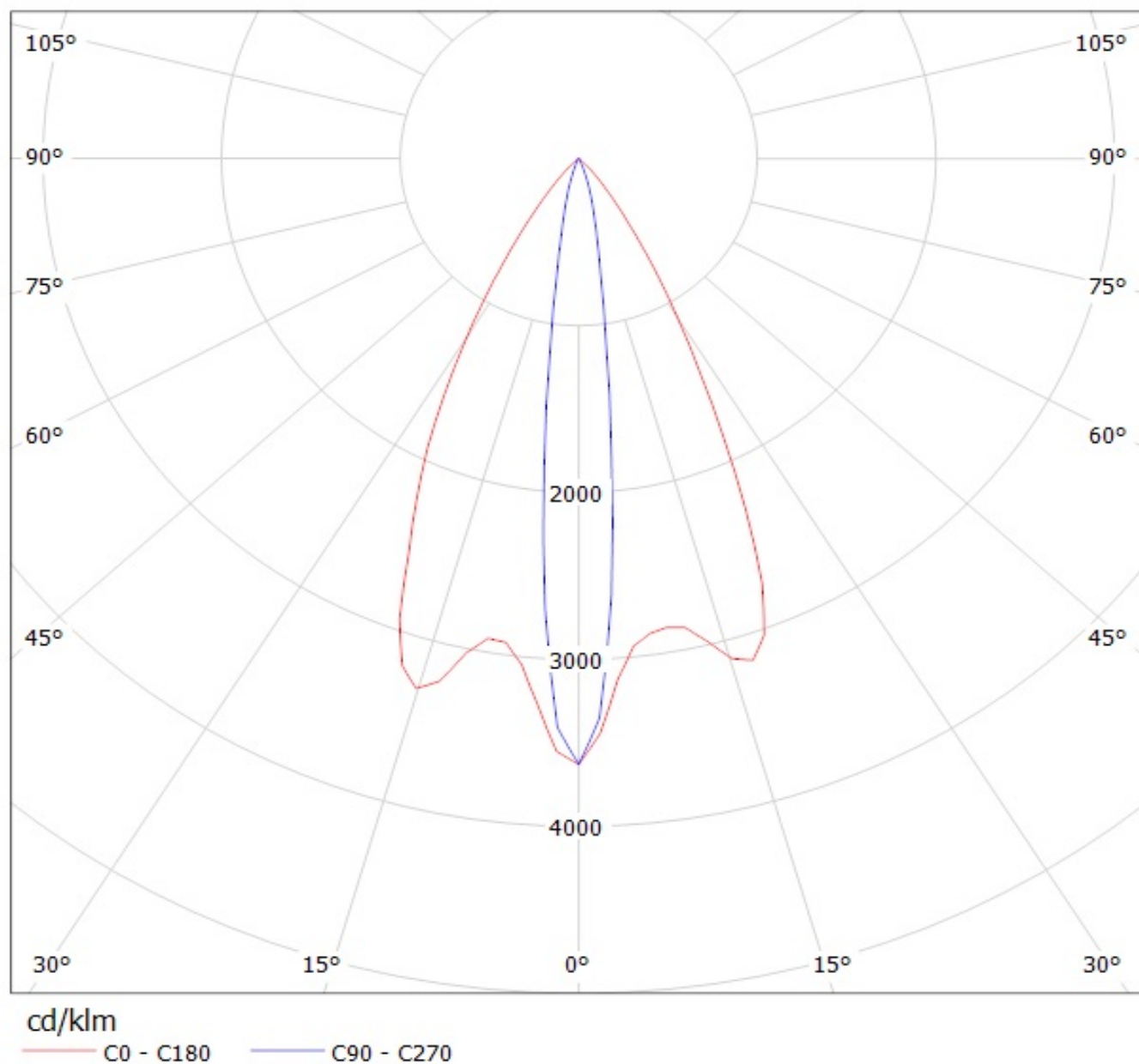
cd/klm

— C0 - C180

— C90 - C270

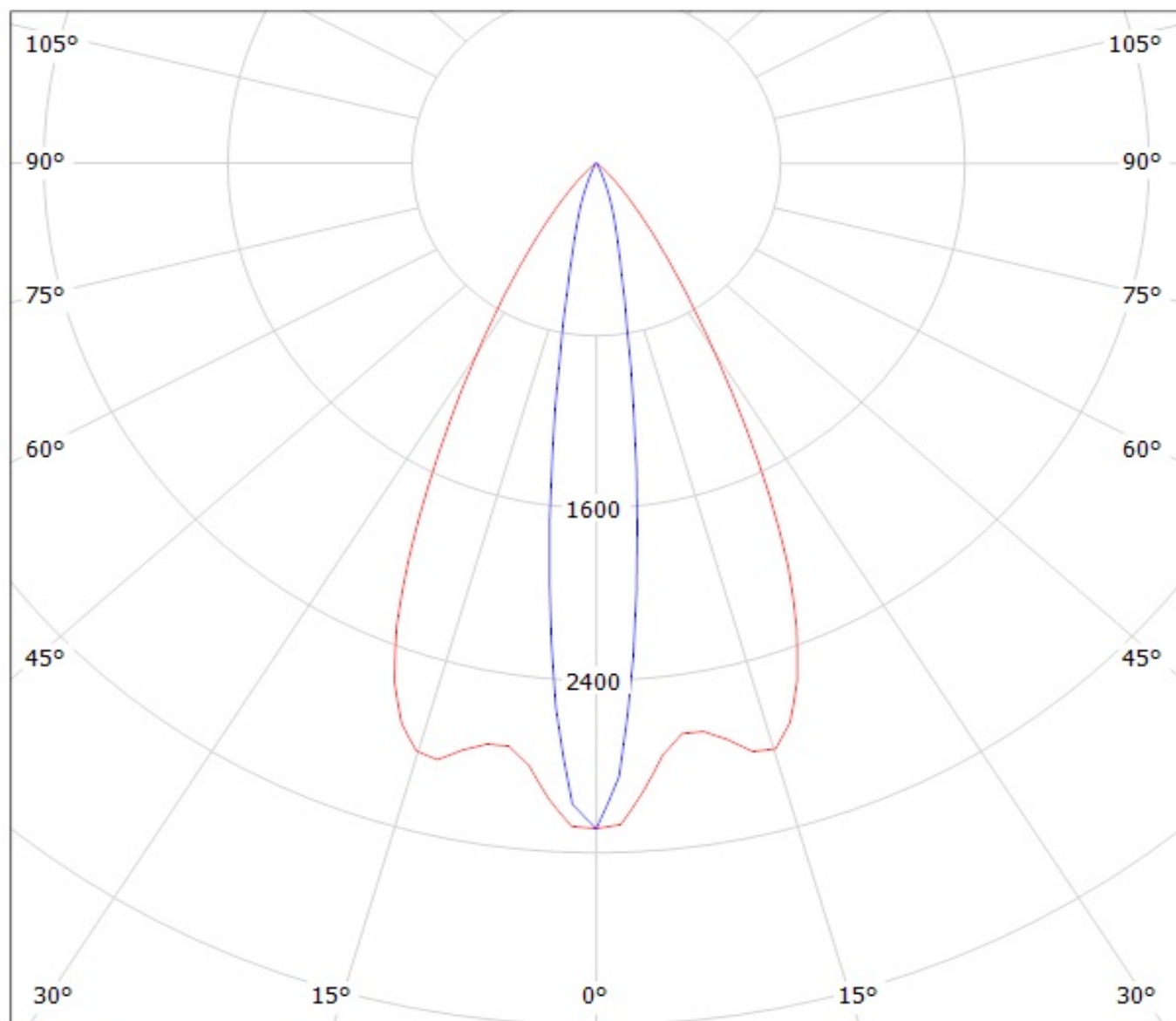
$\eta = 84\%$

Luminaire: Ledil Oy C13529_VERONICA-O_LED_(Z5) Efficiency=83%
Lamps: 1 x Seoul Z5 (SZW05A0B) 83lm @ 250mA CCT=15070K P=0.8W I=250mA



Luminaire: LEDil Oy C13529_VERONICA-O_(Z5M1) Efficiency=83%

Lamps: 1 x Seoul Z5M1 (SZ5M1-W0-C8/W1-A5-G) 108lm @ 250mA CCT=9100K P=0.8W I=250mA



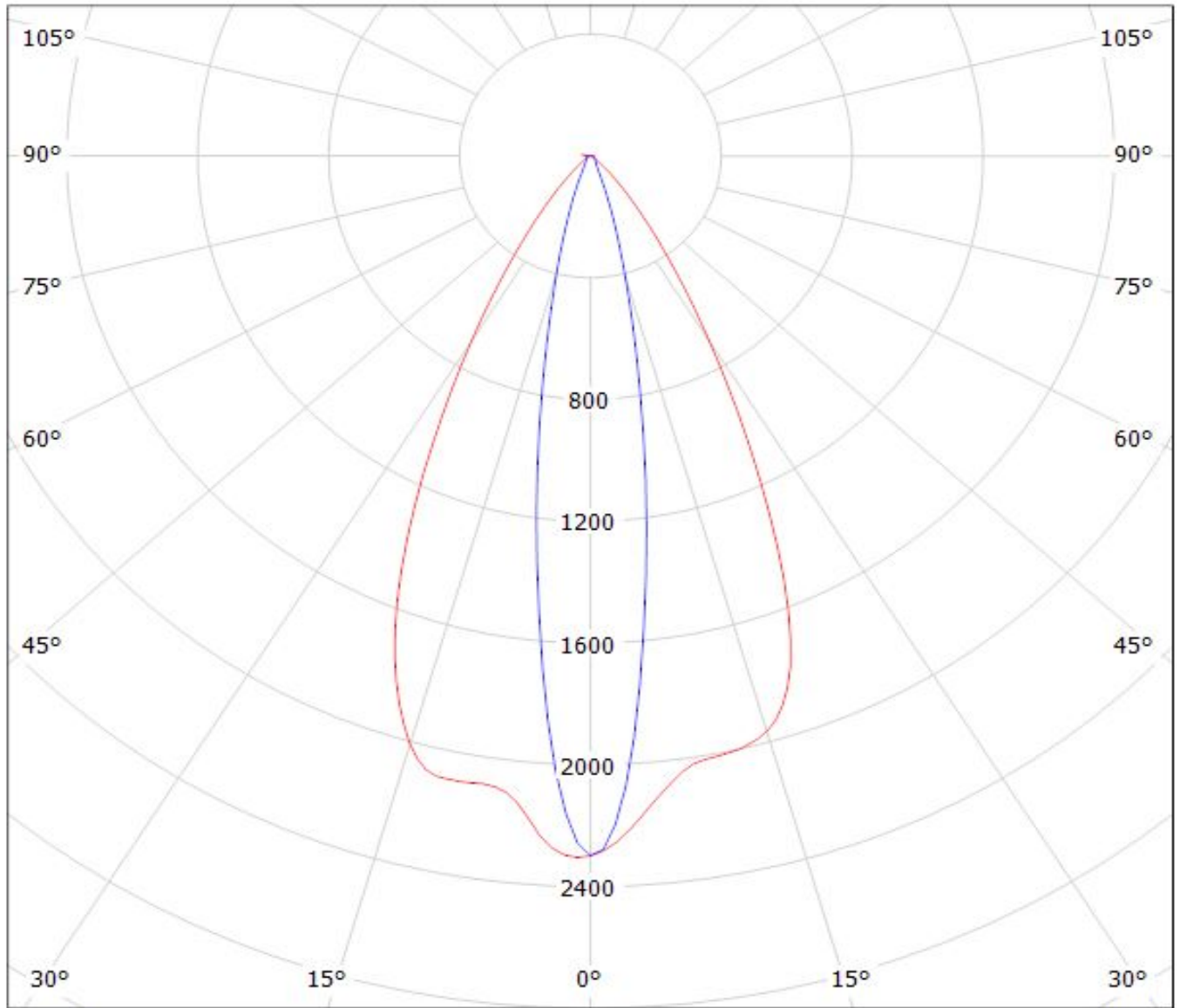
cd/klm

— C0 - C180

— C90 - C270

Luminaire: LEDiL Oy C13529_VERONICA-O_(Z8Y22plus)

Lamps: 1 x Seoul_Z8Y22plus_(W6E2G)_125.652lm@250mA_P=0.69312W_I=0.250A



cd/klm

— C0 - C180

— C90 - C270

$\eta = 77\%$

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.