

## DETAILS

<b>Product Number</b>	C13605_HB-2X2-RW
<b>Family</b>	High Bay
<b>Type</b>	Lens array
<b>Color</b>	clear
<b>Diameter</b>	50x50 mm
<b>Height</b>	8,5 mm
<b>Style</b>	square
<b>Optic Material</b>	PMMA
<b>Holder Material</b>	
<b>Fastening</b>	screw, pin, glue
<b>Status</b>	ready
<b>ROHS Compliant</b>	Yes
<b>Date Updated</b>	29/09/2015



## OPTICAL PROPERTIES

LED	Viewing	Light	Efficiency		Connector
	Angle	Beam	ciency	cd/lm	
Oslon Square Gen3	sim: 54	Wide	sim: 94 %	sim: 1.600	-
XT-E	44 deg	Wide	91 %	1.600	-
XB-D	46 deg	Wide	88 %	1.600	-
Oslon SSL 80	46 deg	Wide	90 %	1.700	-
Z8Y15	46 deg	Wide	88 %	1.400	-
TL1L4	47 deg	Wide	83 %	1.300	-
Z8Y19	47 deg	Wide	87 %	1.300	-
XP-G2	48 deg	Wide	91 %	1.400	-
LH351Z	48 deg	Wide	90 %	1.400	-
NCSxx19A	49 deg	Wide	90 %	1.500	-
Z5M1/Z5M2	49 deg	Wide	90 %	1.400	-
XP-G	50 deg	Wide	89 %	1.300	-
Oslon Square PC	50 deg	Wide	90 %	1.400	-
XP-E	51 deg	Wide	89 %	1.400	-
NVSxx19B/NVSxx19C	51 deg	Wide	90 %	1.300	-
NVSxx19A	52 deg	Wide	88 %	1.300	-

D

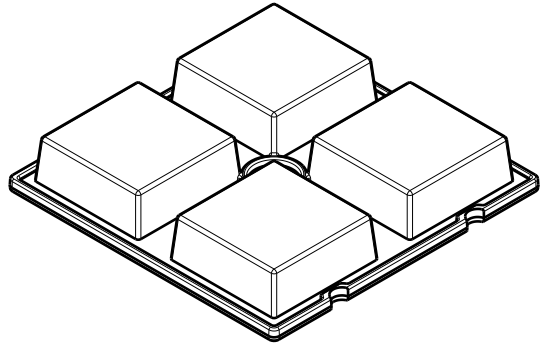
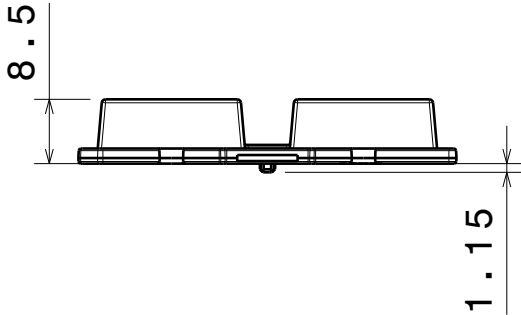
C

B

A

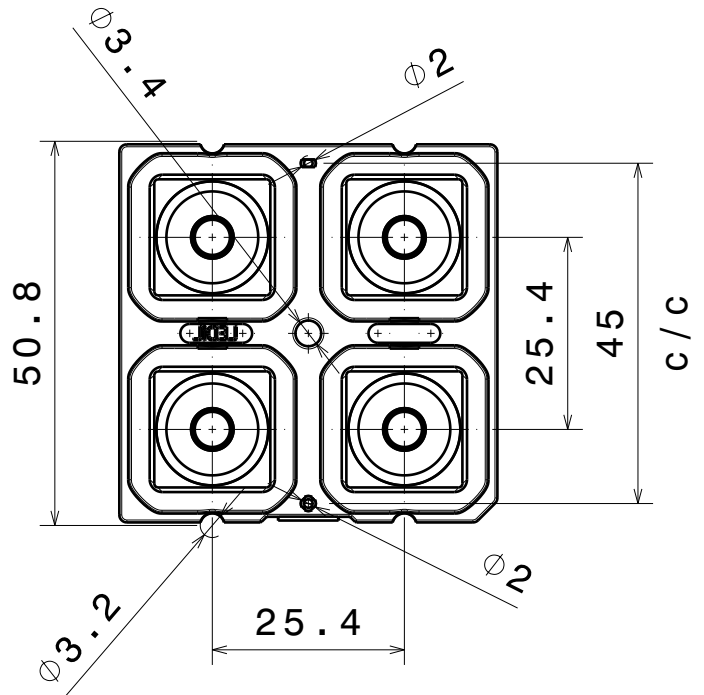
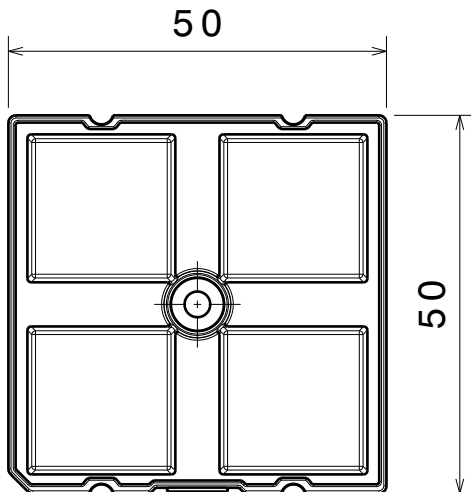
4

4



3

3



2

2

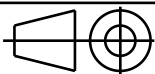
INDEX	PART NO	DESCRIPTION	MATERIAL	COLOUR
1	C13605	HB-2x2-RW	PMMA	

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

Ledil Oy  
Salorankatu 10  
FIN 24240 SALO  
Finland

THIRD ANGLE PROJECTION:



DRAWING TITLE

C13605\_HB-2x2-RW

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of LEDiL Oy. It may not be  
reproduced, copied or  
communicated without a written  
agreement with LEDiL Oy.

SIZE PART NUMBER

A4

C13605

SCALE	1:1	WEIGHT	10,6 g	SHEET	1/1
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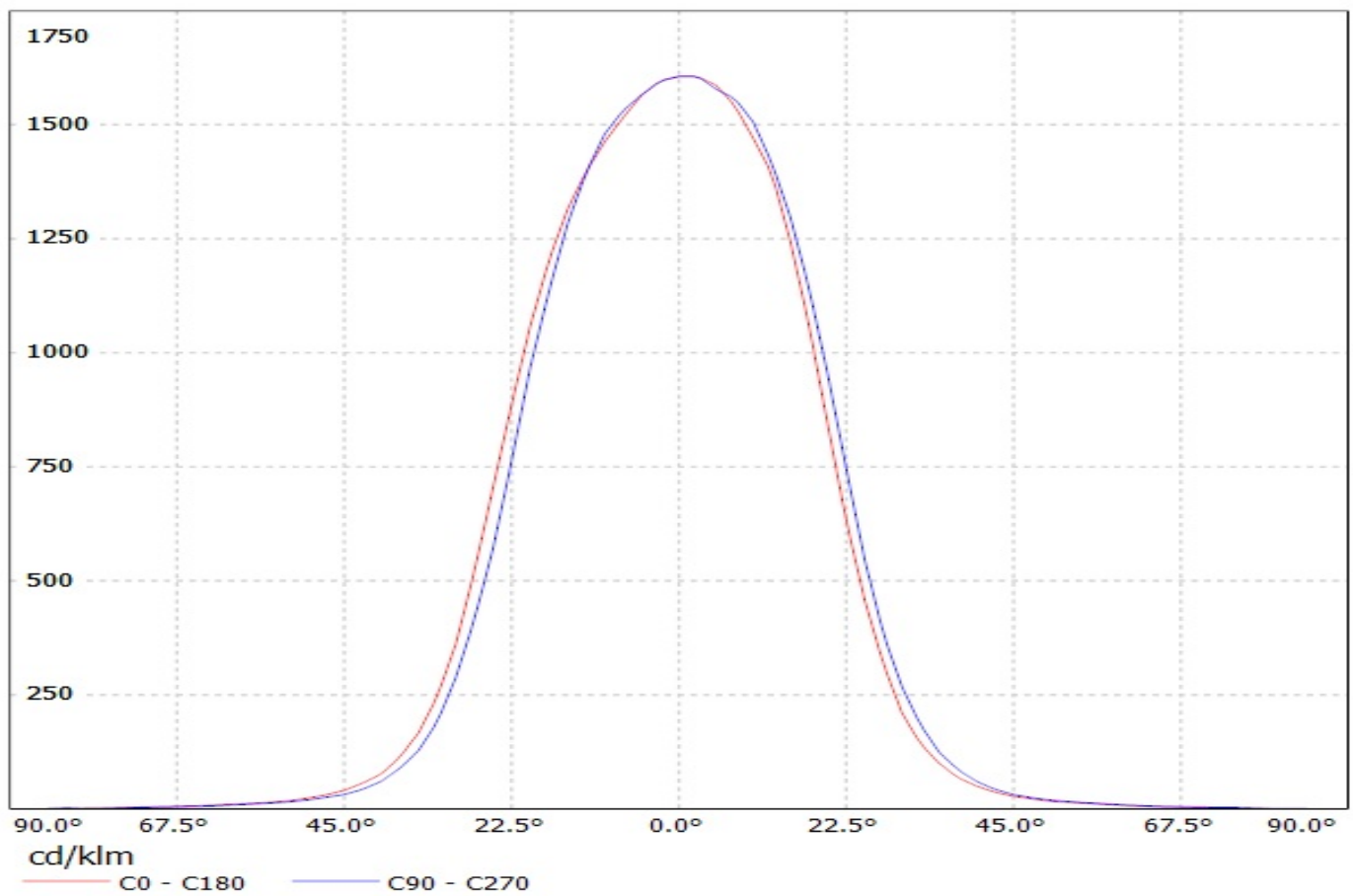
D

A

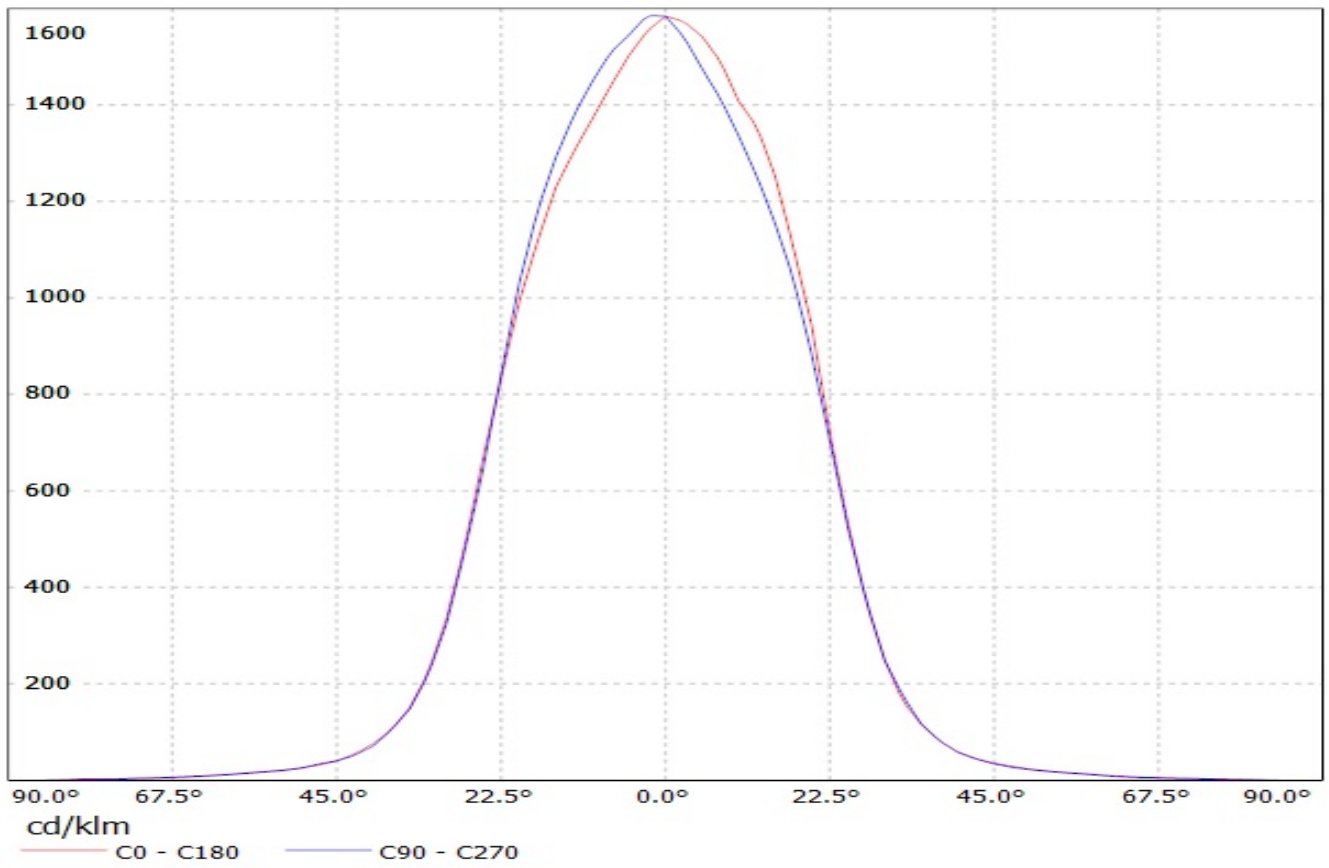
1

1

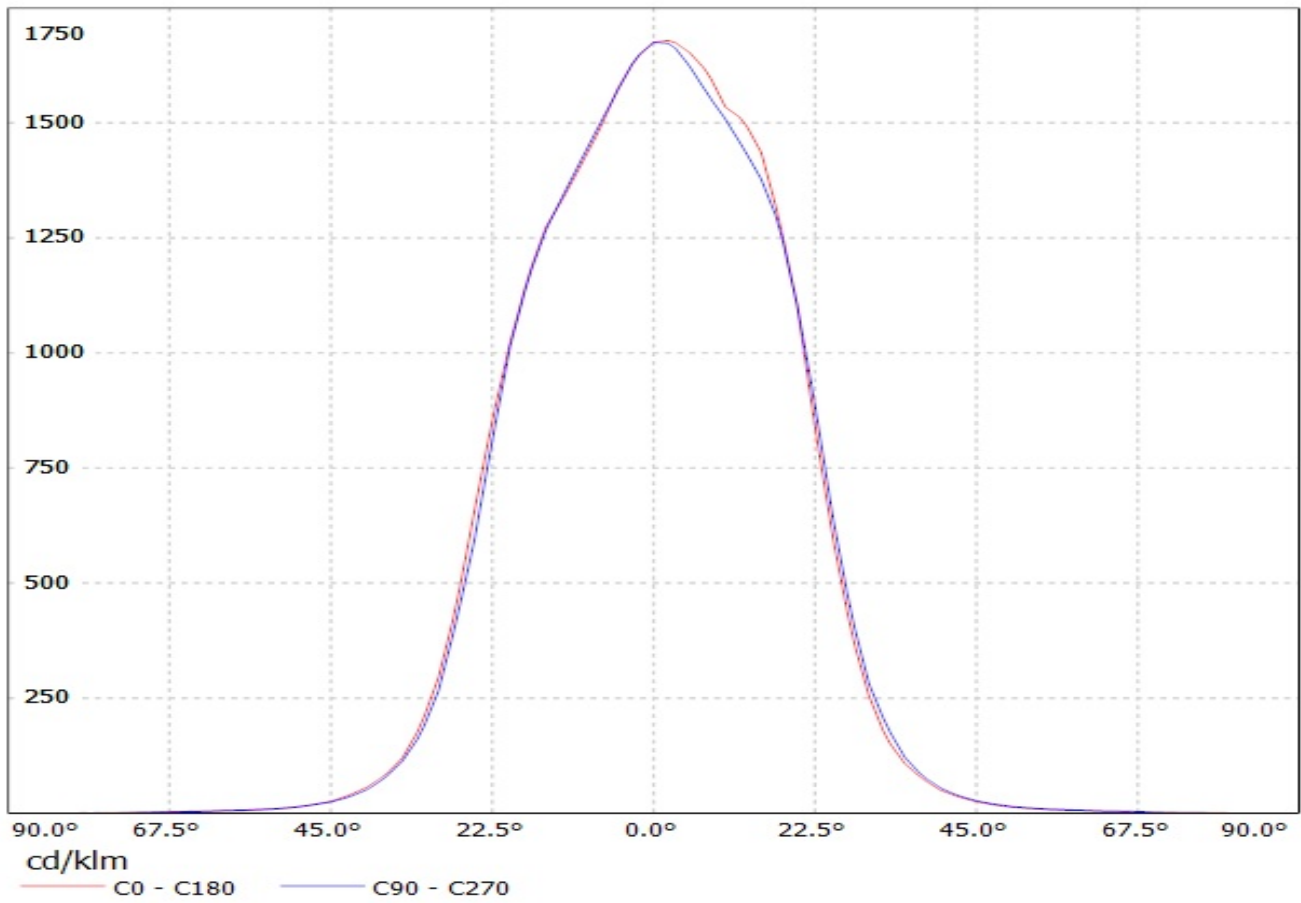
Luminaire: Ledil Oy C13605\_HB-2X2-RW (Cree XT-E 390lm @ 250mA) Efficiency=89%  
Lamps: 1 x Cree XT-E 390lm @ 250mA CCT=5717K P=3W I=250mA



Luminaire: Ledil Oy C13605\_HB-2X2-RW\_(XB-D) Efficiency=88%  
Lamps: 1 x Cree XB-D (365lm @ 250mA) CCT=6800K P=3.1W I=250mA

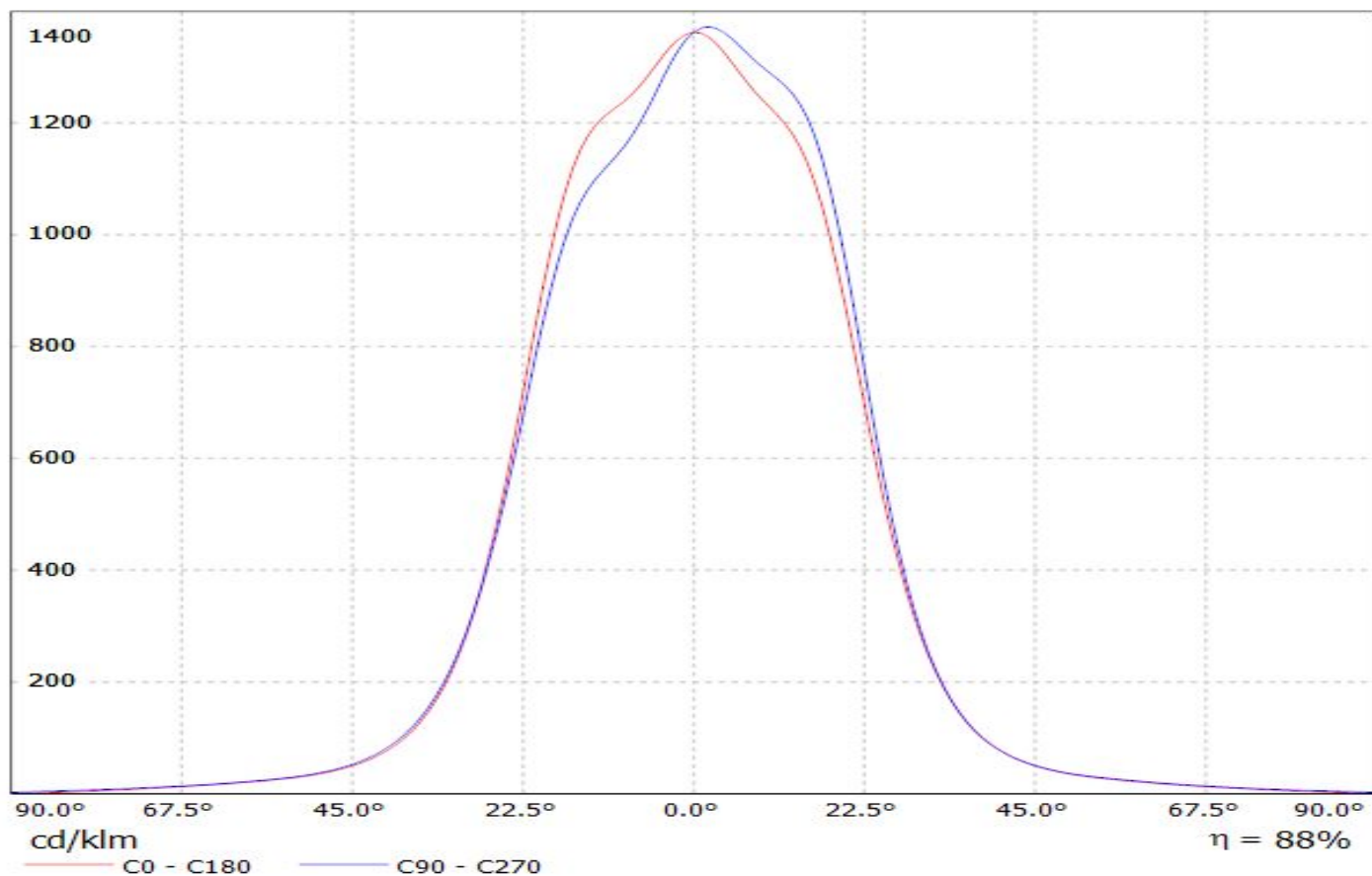


Luminaire: Ledil Oy C13605\_HB-2X2-RW\_(SSL\_80) Efficiency=90%  
Lamps: 1 x Osram Oslon SSL 80 (310lm @ 250mA) CCT=6800K P=3.2W I=250mA



Luminaire: LEDiL Oy C13605\_HB-2X2-RW\_(WICOP2\_Z8Y15)

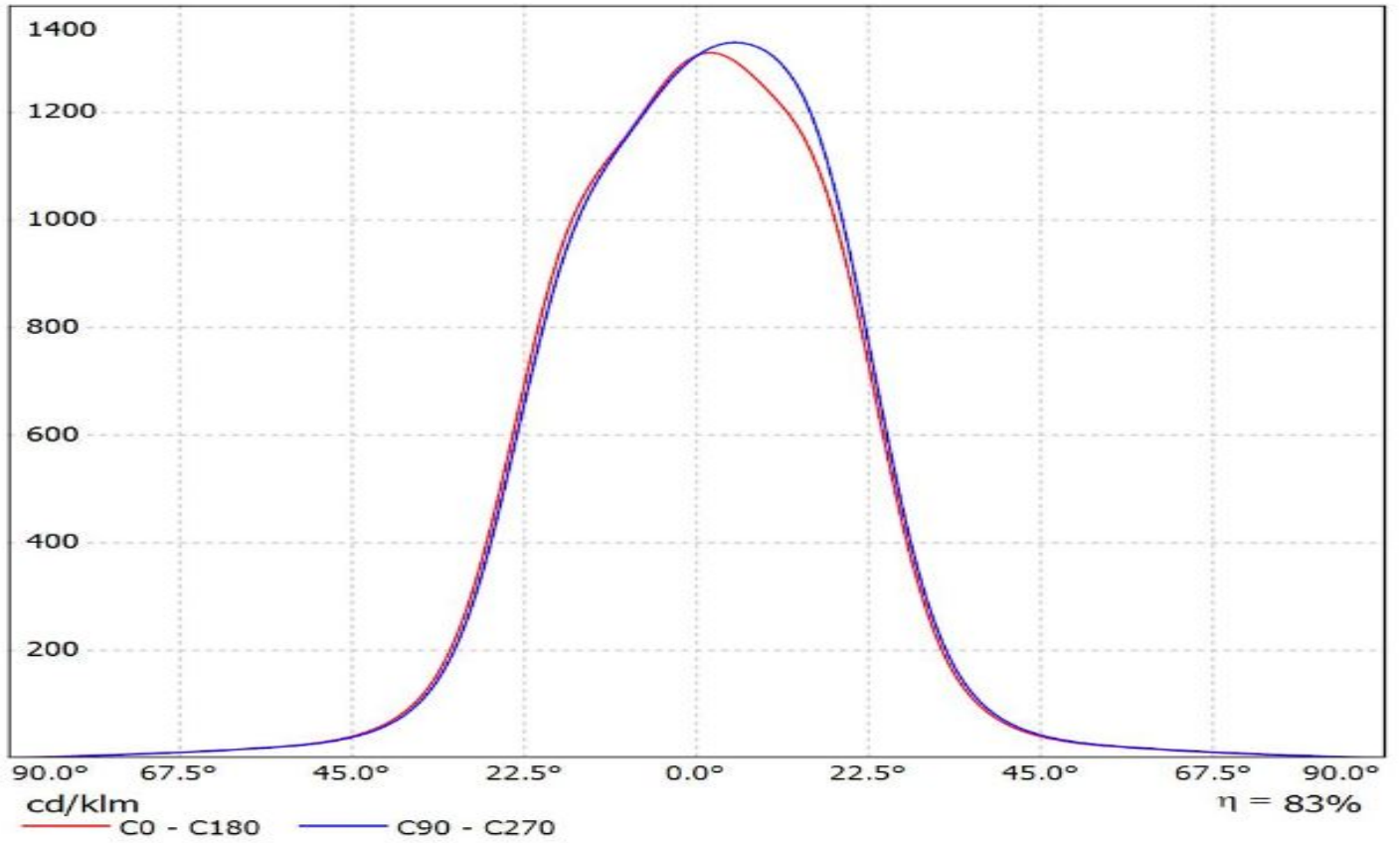
Lamps: 1 x SEOUL\_WICOP2\_Z8Y15\_336.842lm@250mA\_P=2.9399W\_I=0.250A



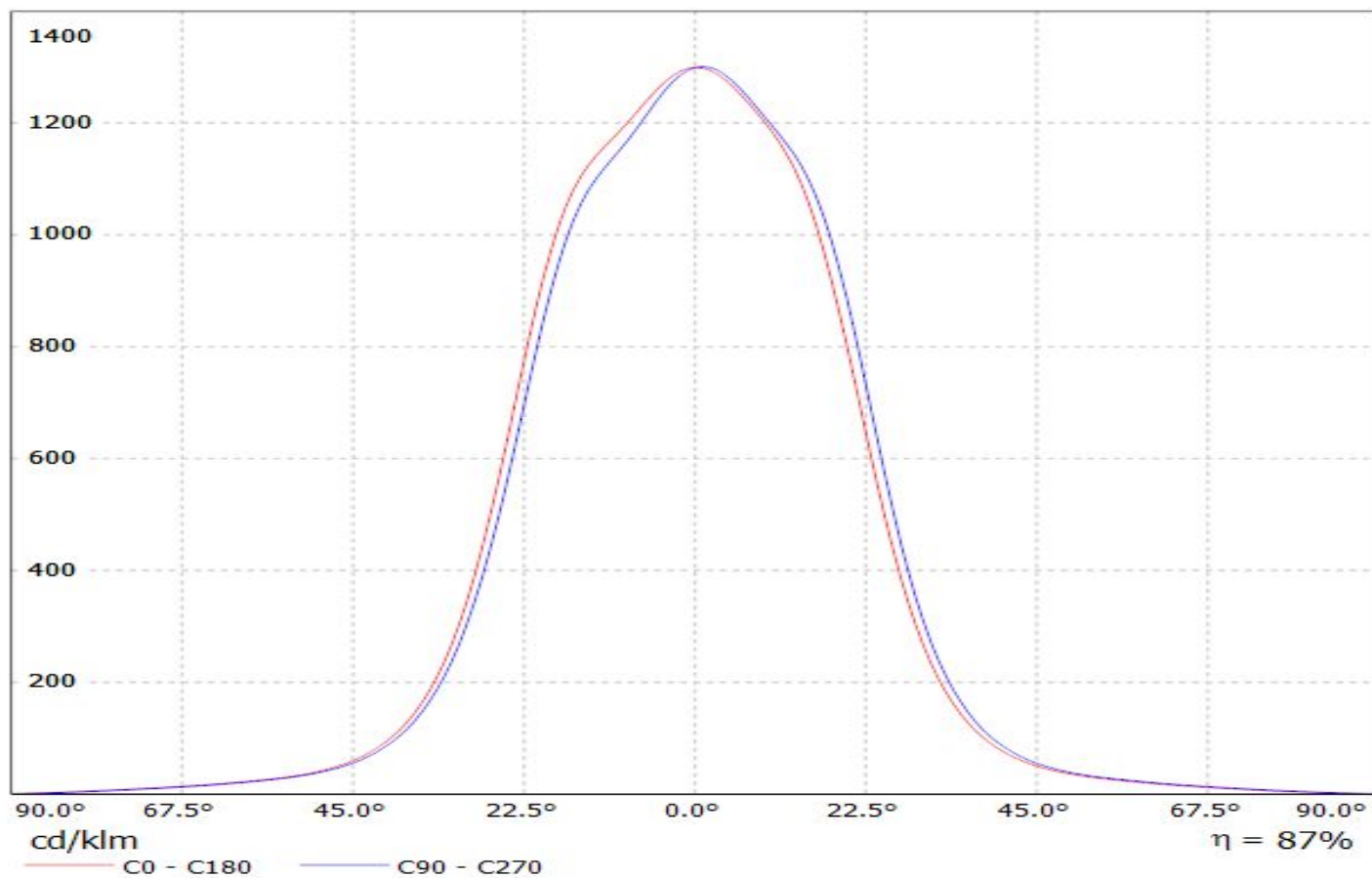
# Ledil C13605\_HB-2X2-RW\_(TL1L4) / LDC (Linear)

Luminaire: Ledil C13605\_HB-2X2-RW\_(TL1L4)

Lamps: 1 x Toshiba\_TL1L4\_2x2\_(TL1L4-DW0)\_472.639lm@250mA\_CCT=6500K\_P=2.9W\_I=0.25A

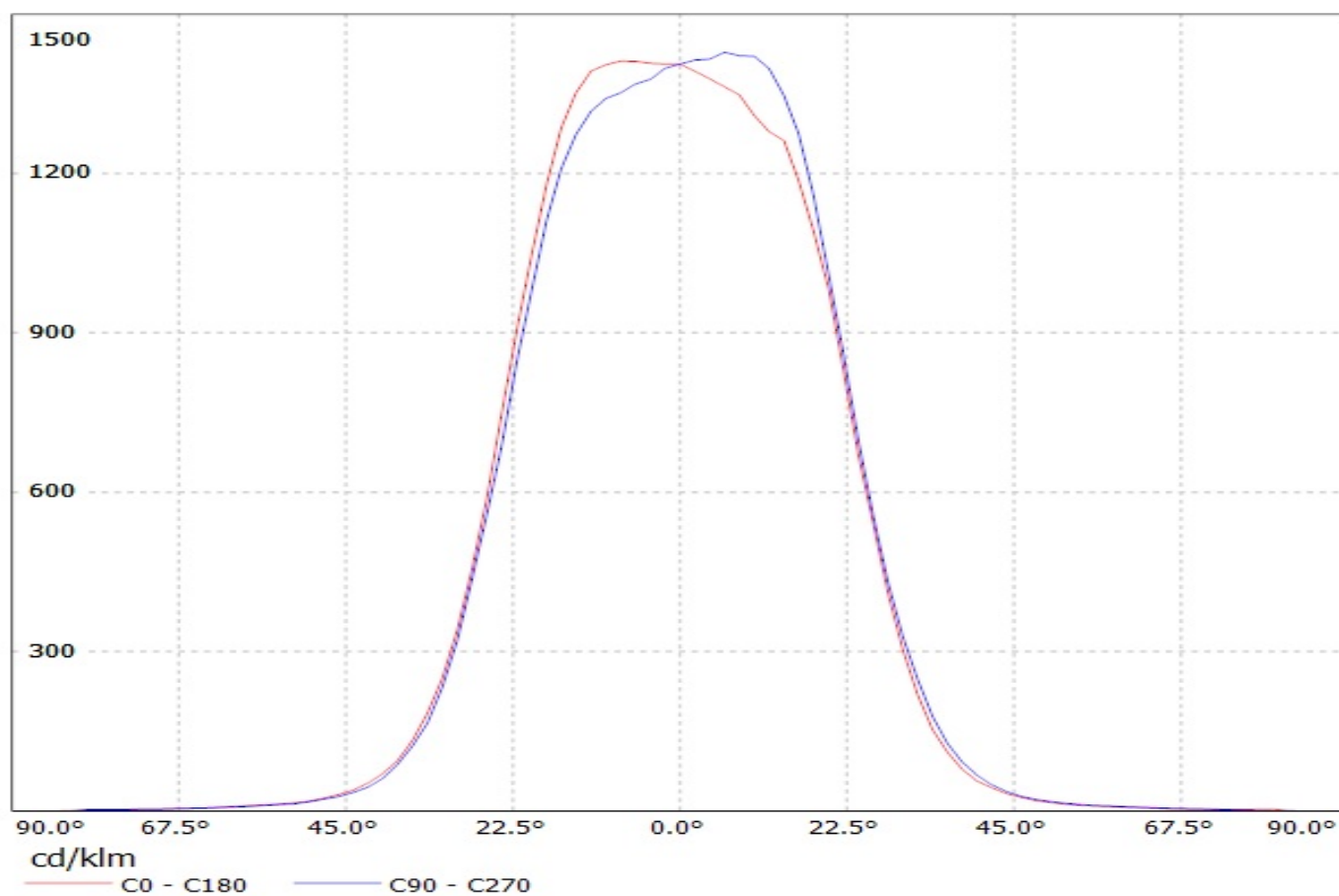


Luminaire: LEDiL Oy C13605\_HB-2X2-RW\_(WICOP2\_Z8Y19)  
Lamps: 1 x SEOUL\_WICOP2\_Z8Y19\_450.124lm@250mA\_P=2.8579W\_I=0.250A

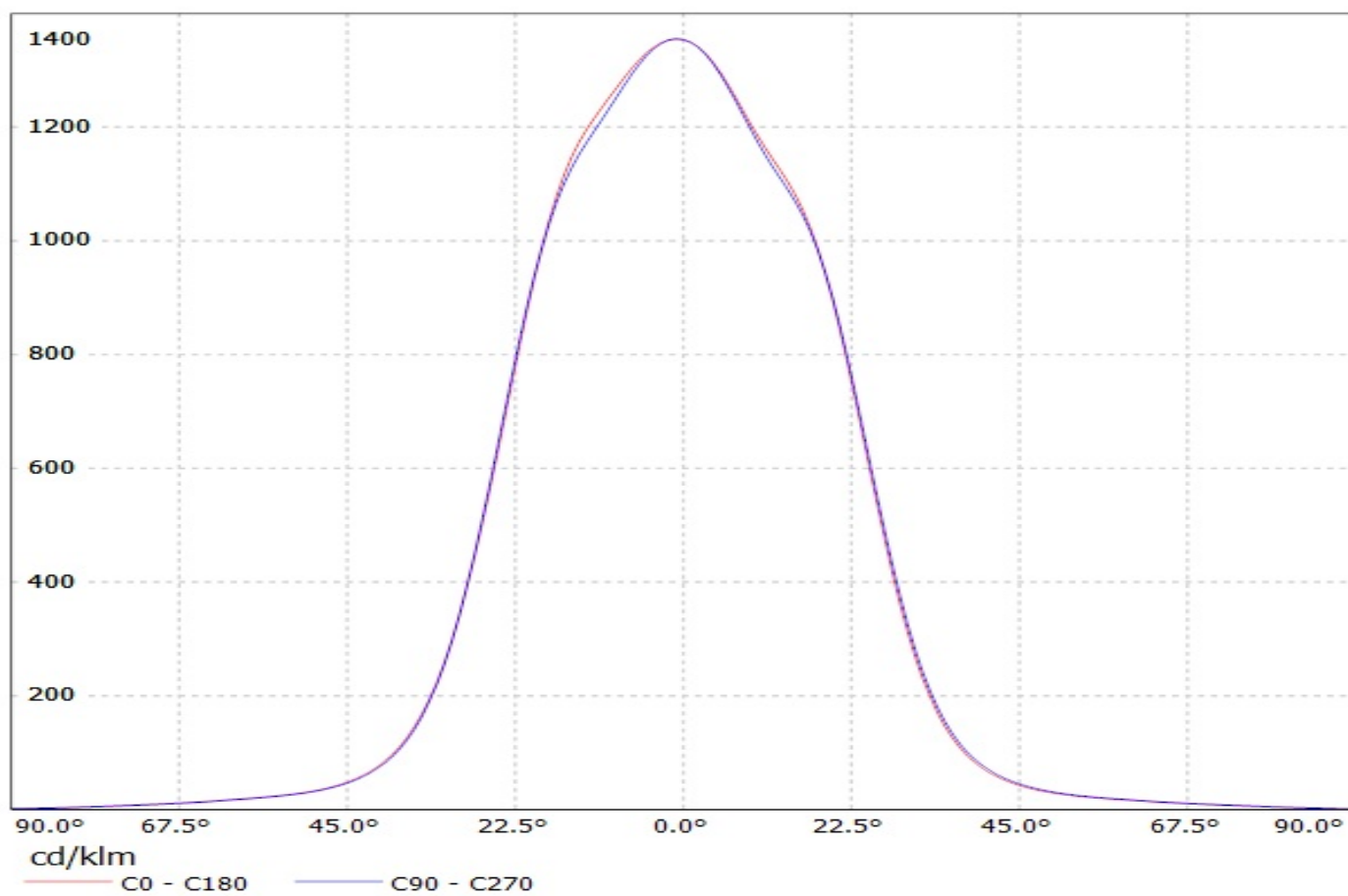




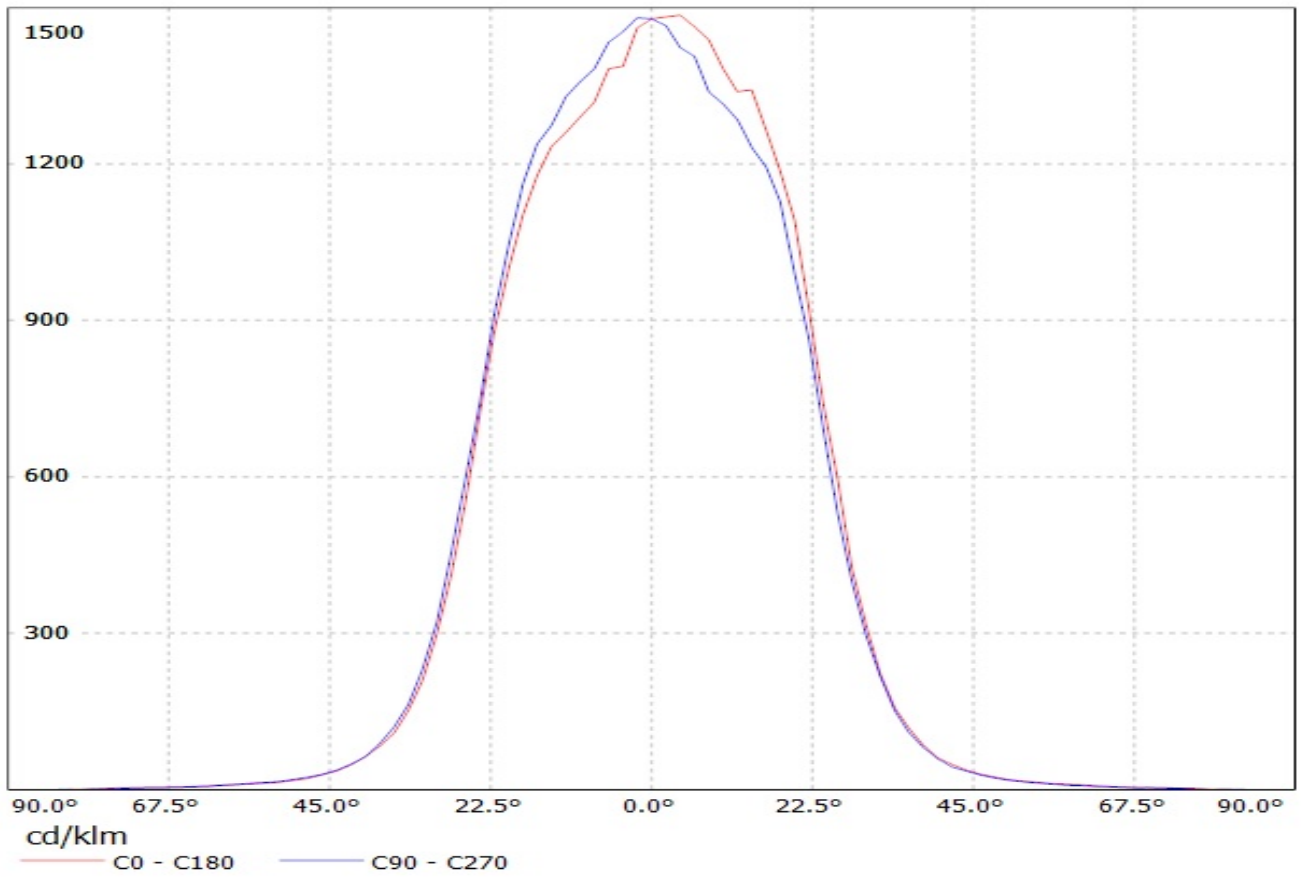
Luminaire: Ledil Oy C13605\_HB-2X2-RW (Cree XP-G2 408lm Im @ 250mA) Efficiency=91%  
Lamps: 1 x Cree XP-G2 408lm Im @ 250mA CCT=7181K P=3W I=250mA



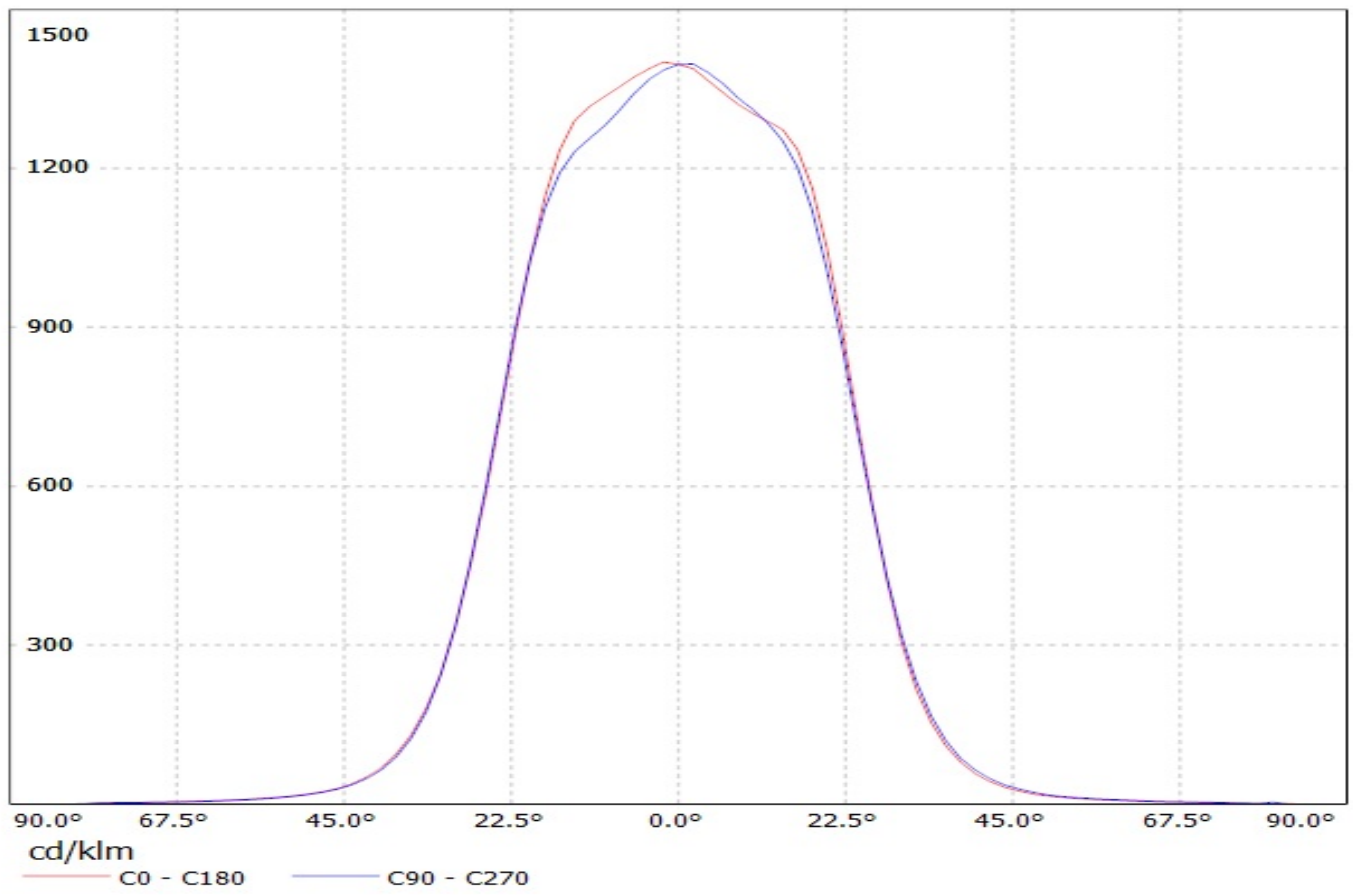
Luminaire: LEDiL Oy C13605\_HB-2X2-RW\_(LH351Z) Eff.90.2%  
Lamps: 1 x SAMSUNG\_LH351Z\_2x2\_359.49lm@250mA\_P=2.86371W\_I=249.8mA



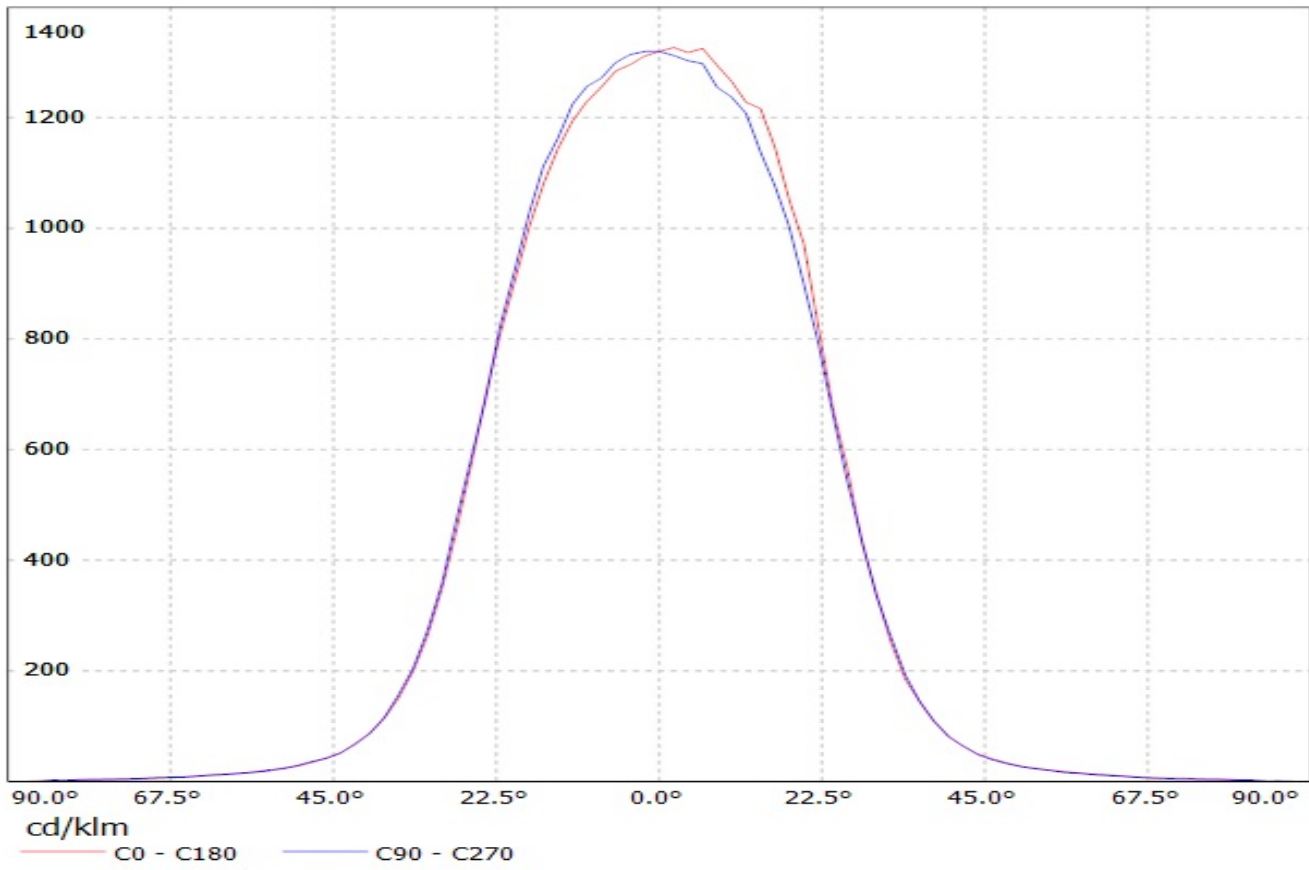
Luminaire: Ledil Oy C13605\_HB-2X2-RW\_(NCSxx19A) Efficiency=90%  
Lamps: 1 x Nichia NCSxx19A (NCSL119AT-H1) (229lm @ 250mA) CCT=2800K P=3.1W I=250mA



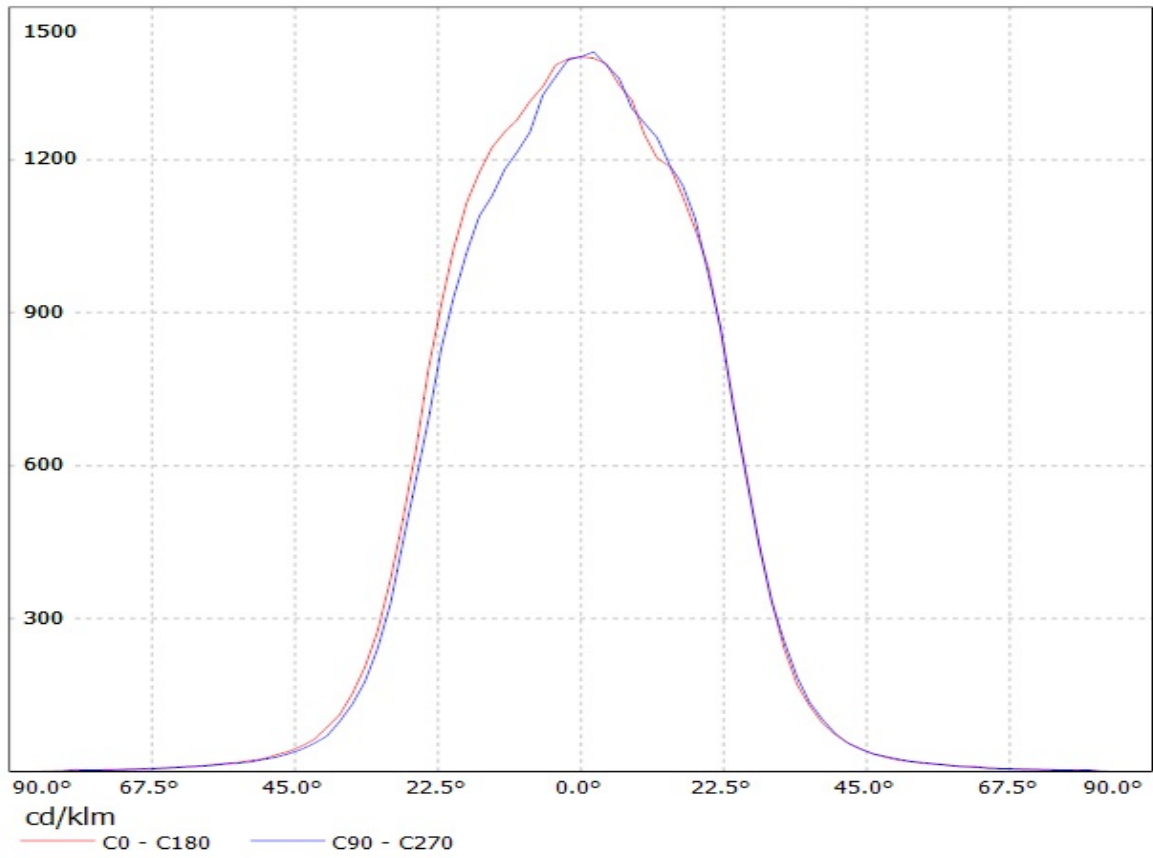
Luminaire: LEDil Oy C13605\_HB-2x2-RW\_(Z5M1) Efficiency=90%  
Lamps: 1 x Seoul (SZ5-M1-WN-C8) 379lm @ 250mA CCT=4600K P=2.9W I=250mA



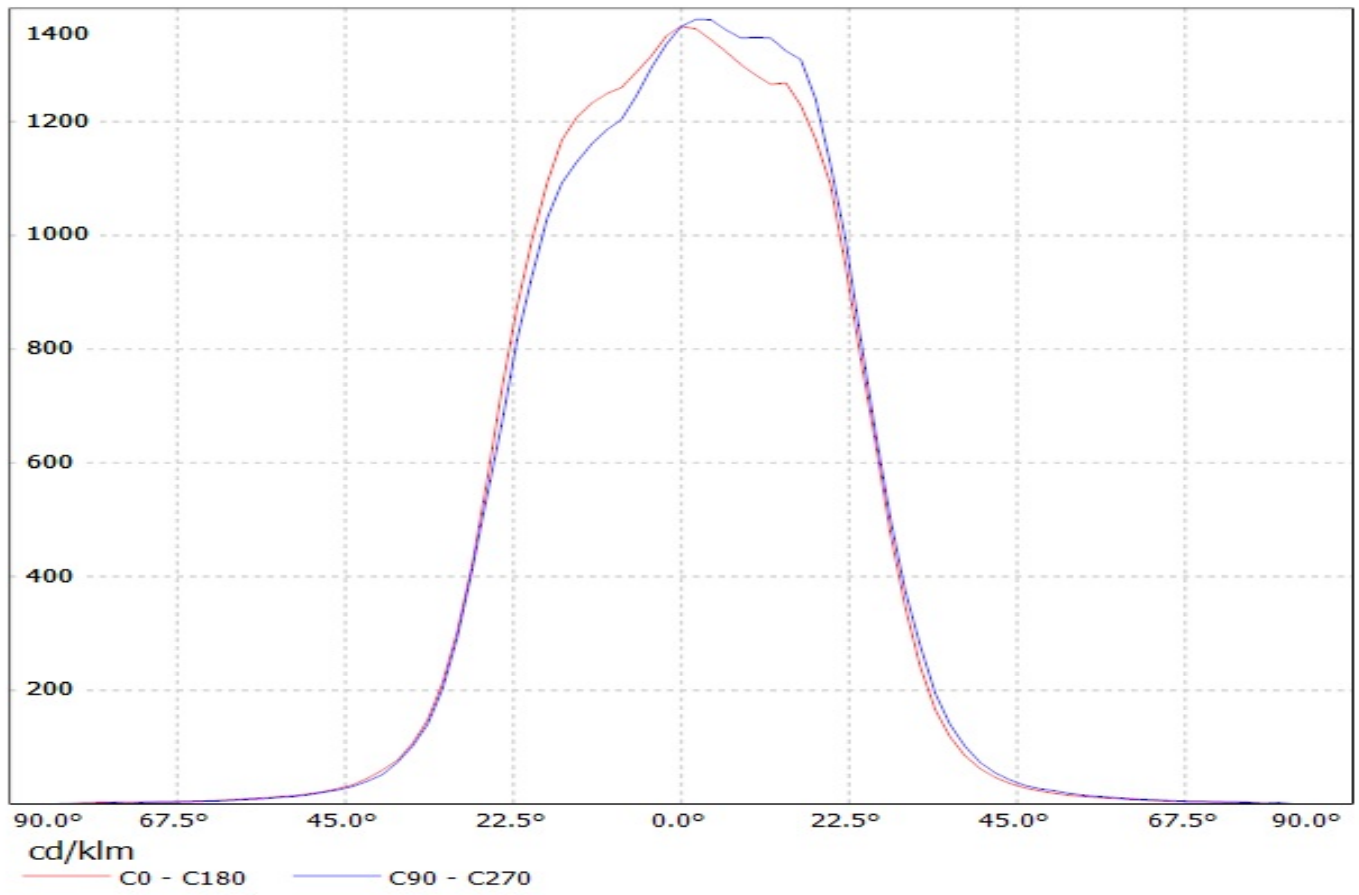
Luminaire: Ledil Oy C13605\_HB-2X2-RW\_(XP-G) Efficiency=89%  
Lamps: 1 x Cree XP-G (254lm @ 250mA) CCT=3300K P=2.9W I=250mA



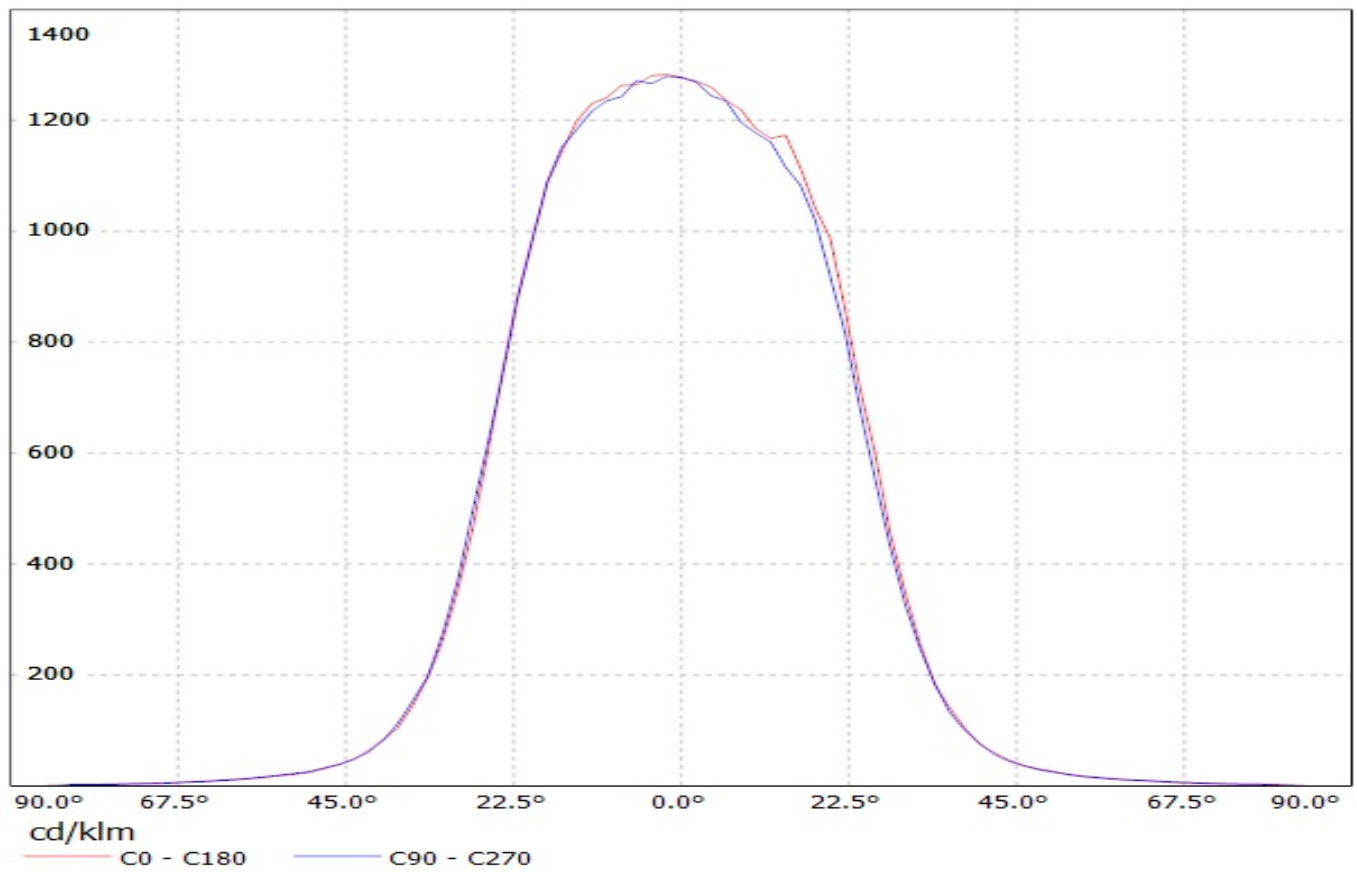
Luminaire: Ledil Oy C13605\_HB-2X2-RW\_(Oslon\_Square\_PC) Efficiency=90%  
Lamps: 1 x Osram Oslon Square PC (LCW-CQAR.PC-MSMU-5H71-1) 389lm @ 250mA CCT=6000K P=3.0W I=250mA



Luminaire: Ledil Oy C13605\_HB-2x2-RW\_(XP-E) Efficiency=89%  
Lamps: 1 x Cree XP-E (XPEWHT-L1-3C0-W5-0-06) 302lm @ 250mA CCT=5400K P=3.1W I=250mA

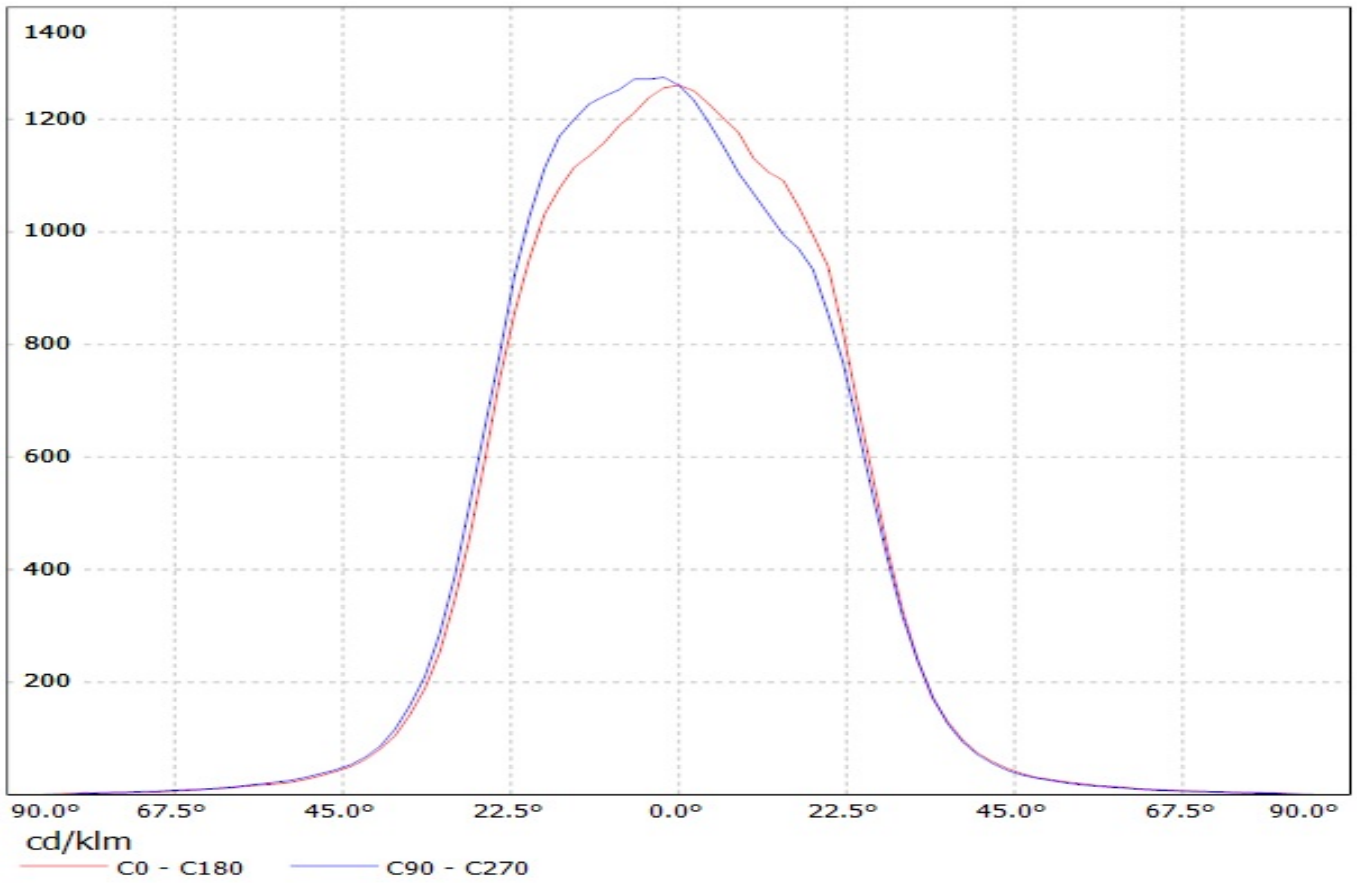


Luminaire: Ledil Oy C13605\_HB-2X2-RW\_(NVSxx19B) Efficiency=90%  
Lamps: 1 x Nichia NVSxx19B (NVSL219BE) 308lm @ 250mA CCT=3100K P=2.9W I=250mA

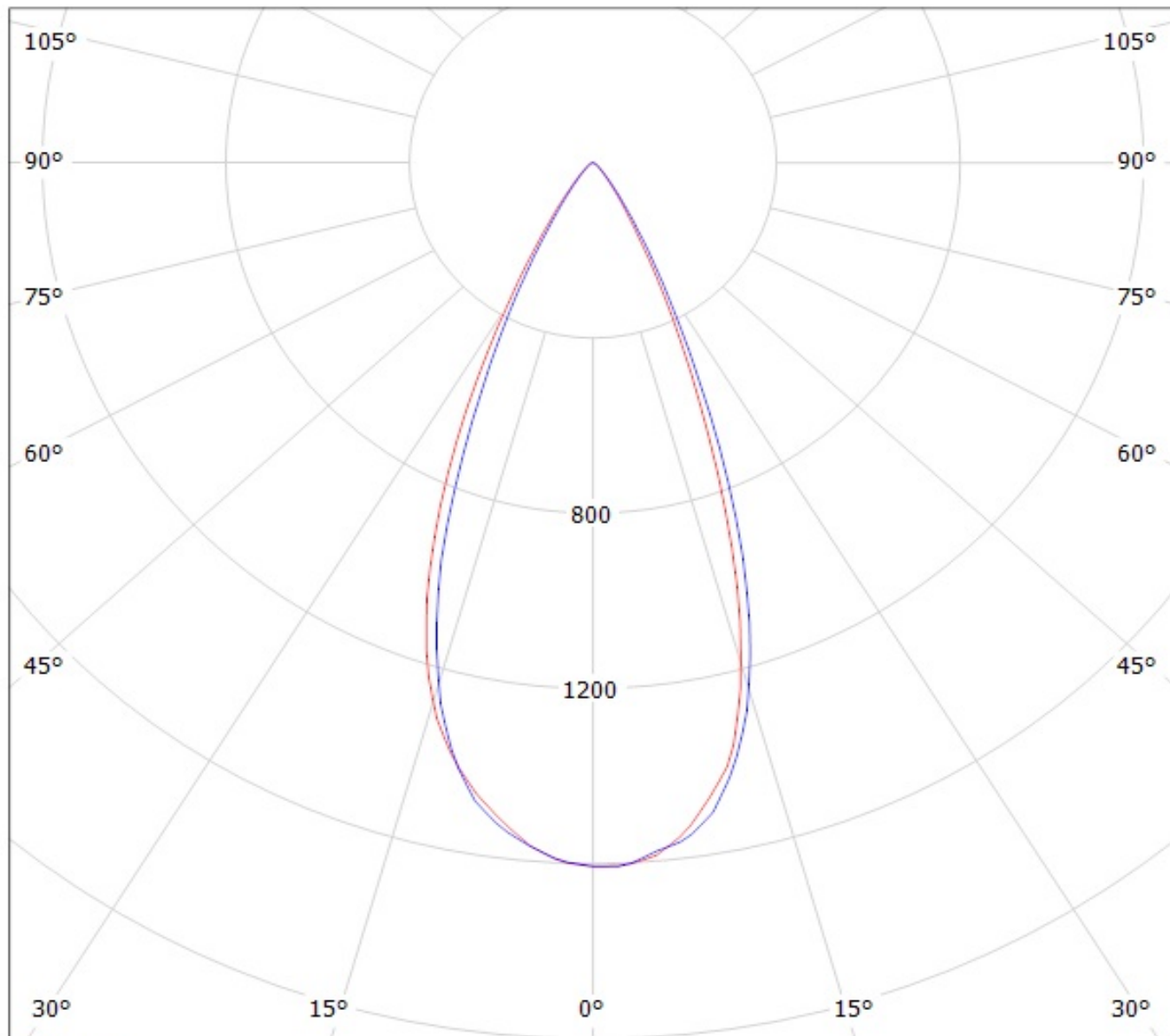




Luminaire: Ledil Oy C13605\_HB-2x2-RW\_(NVSxx19A) Efficiency=88%  
Lamps: 1 x Nichia NVSxx19A (NVS219AT) 382lm @ 250mA CCT=5290K P=2.9W I=250mA



Luminaire: Ledil Oy C13605\_HB-2X2-RW (Cree XT-E 390lm @ 250mA) Efficiency=89%  
Lamps: 1 x Cree XT-E 390lm @ 250mA CCT=5717K P=3W I=250mA

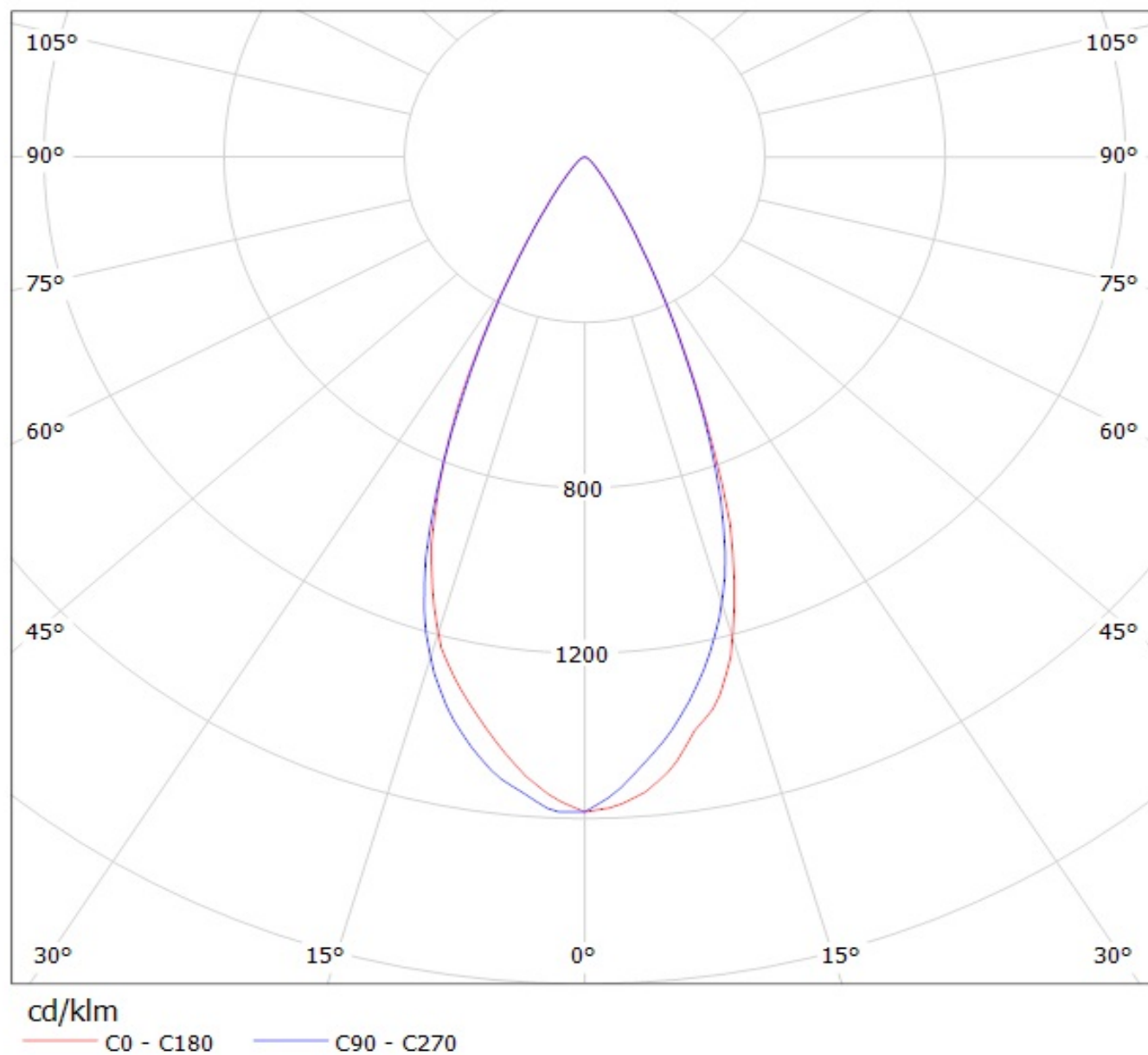


cd/klm

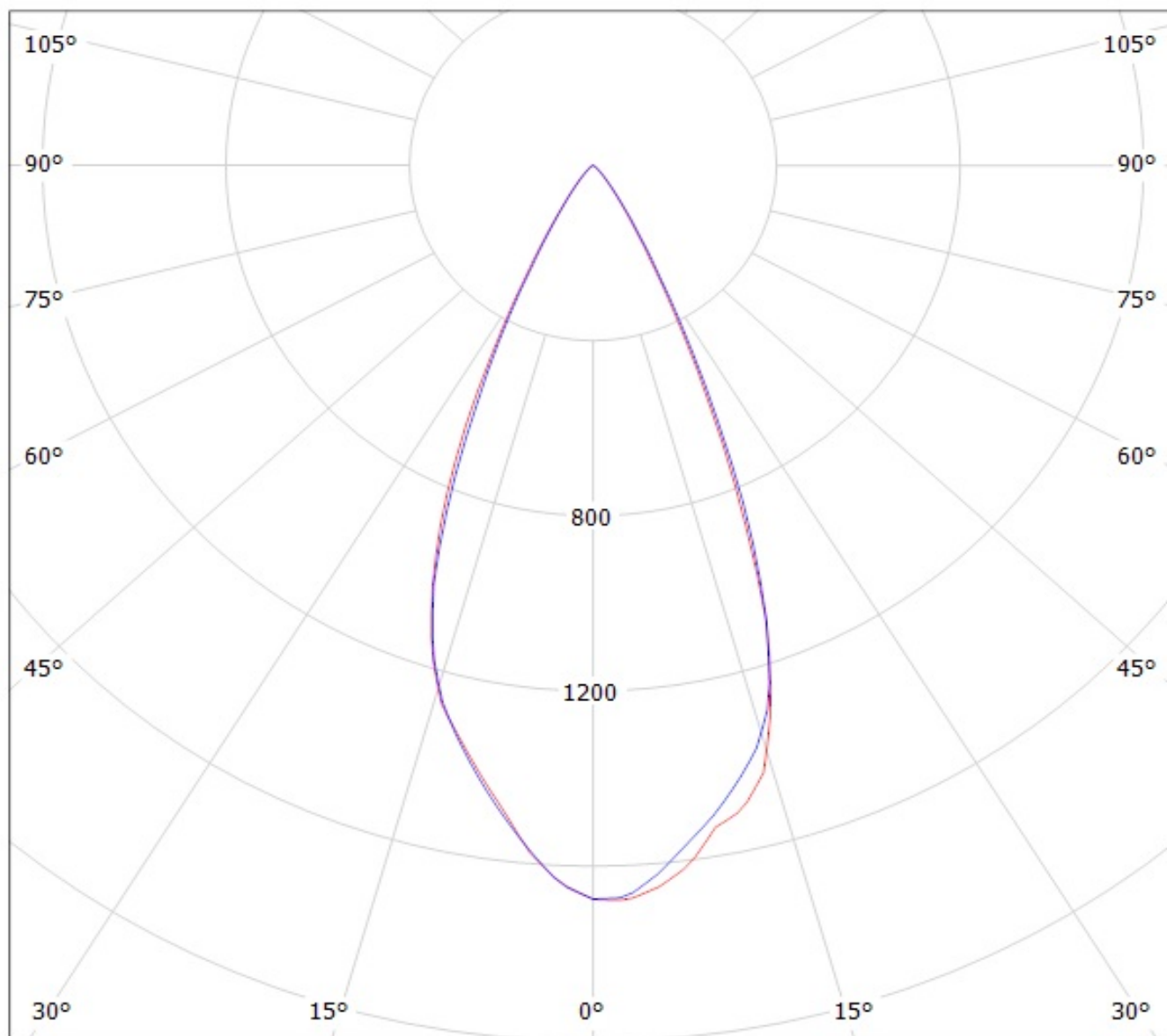
— C0 - C180

— C90 - C270

Luminaire: Ledil Oy C13605\_HB-2X2-RW\_(XB-D) Efficiency=88%  
Lamps: 1 x Cree XB-D (365lm @ 250mA) CCT=6800K P=3.1W I=250mA



Luminaire: Ledil Oy C13605\_HB-2X2-RW\_(SSL\_80) Efficiency=90%  
Lamps: 1 x Osram Oslon SSL 80 (310lm @ 250mA) CCT=6800K P=3.2W I=250mA



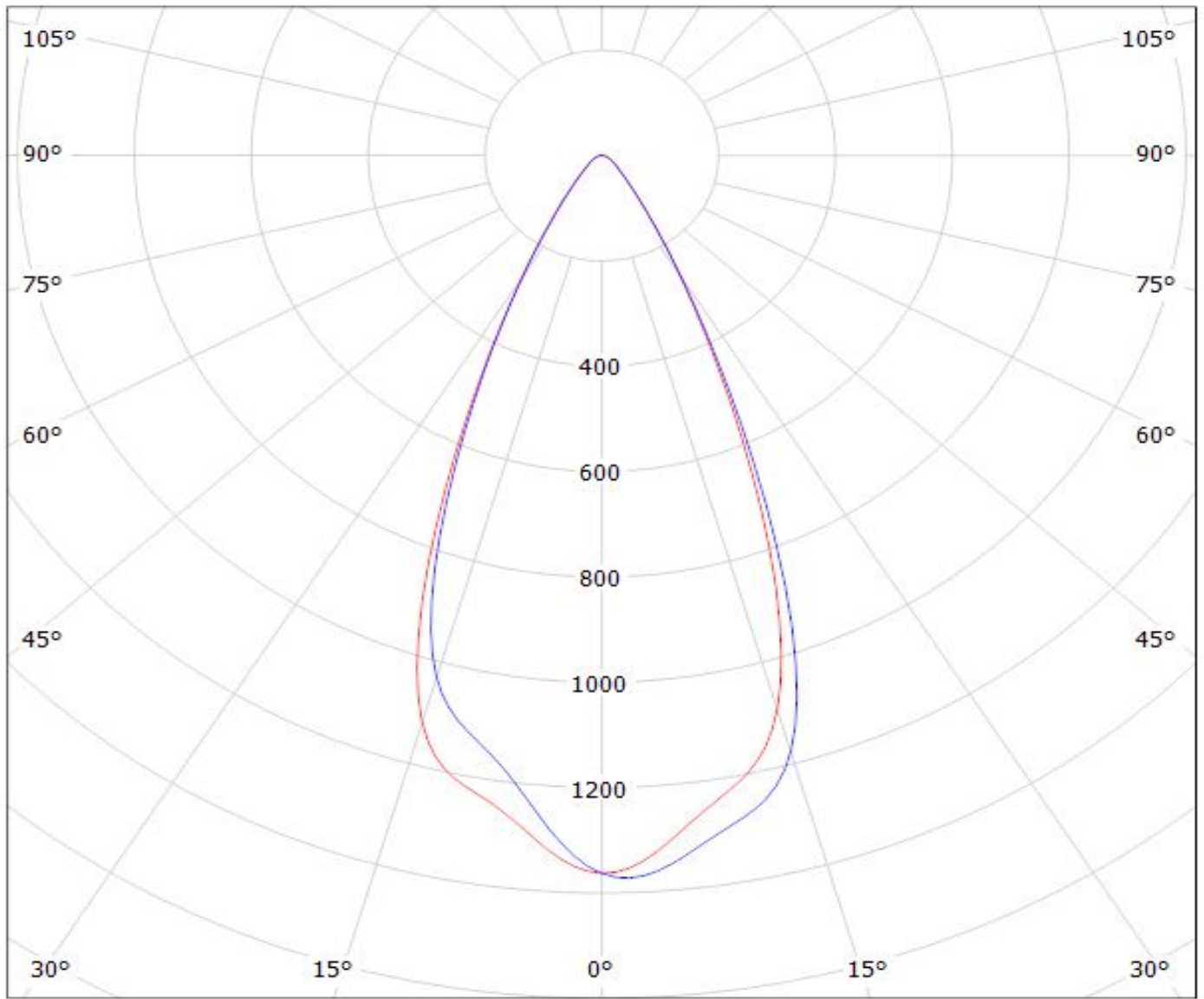
cd/klm

— C0 - C180

— C90 - C270

Luminaire: LEDiL Oy C13605\_HB-2X2-RW\_(WICOP2\_Z8Y15)

Lamps: 1 x SEOUL\_WICOP2\_Z8Y15\_336.842lm@250mA\_P=2.9399W\_I=0.250A



cd/klm

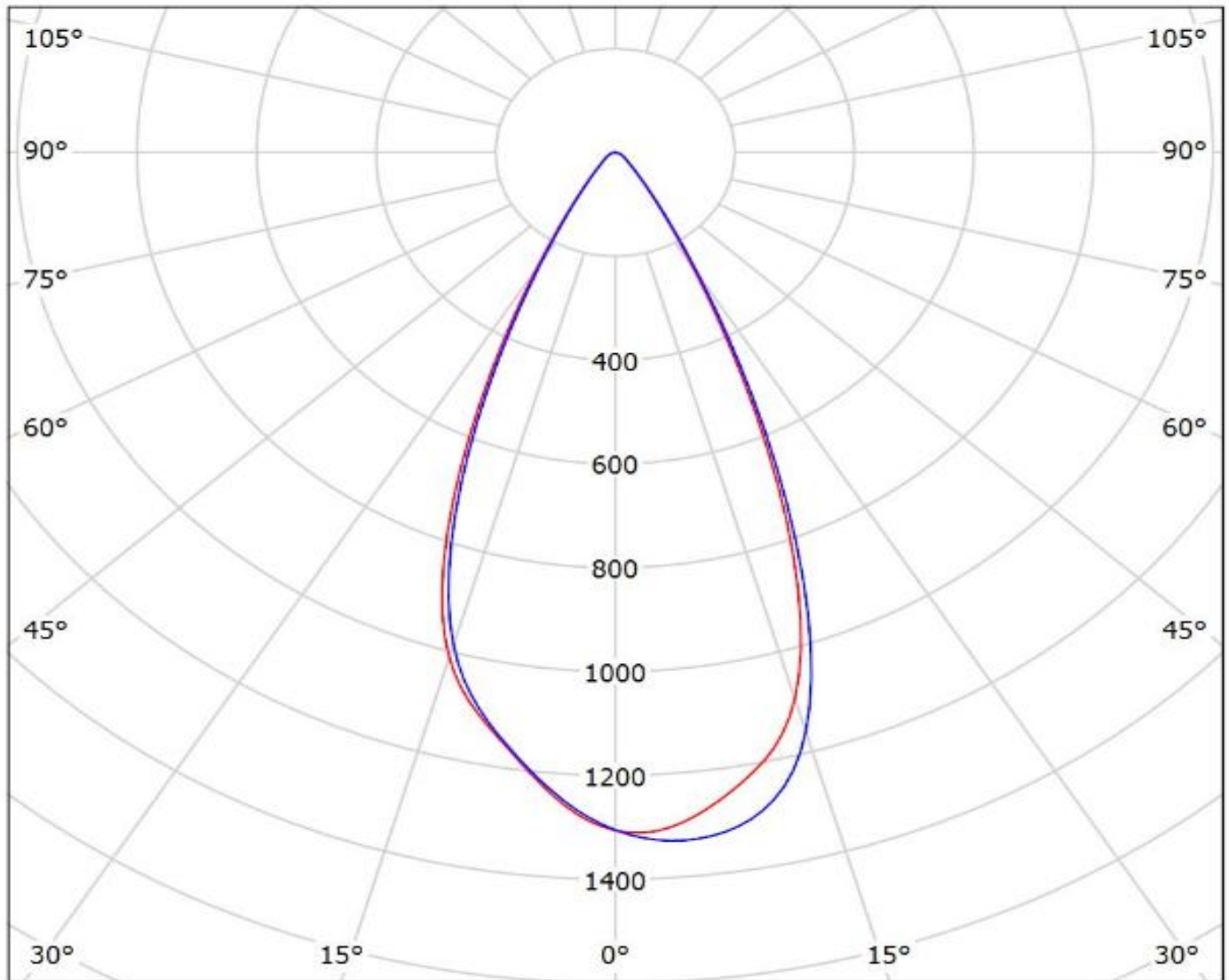
— C0 - C180    — C90 - C270

$\eta = 88\%$

# Ledil C13605\_HB-2X2-RW\_(TL1L4) / LDC (Polar)

Luminaire: Ledil C13605\_HB-2X2-RW\_(TL1L4)

Lamps: 1 x Toshiba\_TL1L4\_2x2\_(TL1L4-DW0)\_472.639lm@250mA\_CCT=6500K\_P=2.9W\_I=0.25A



cd/klm

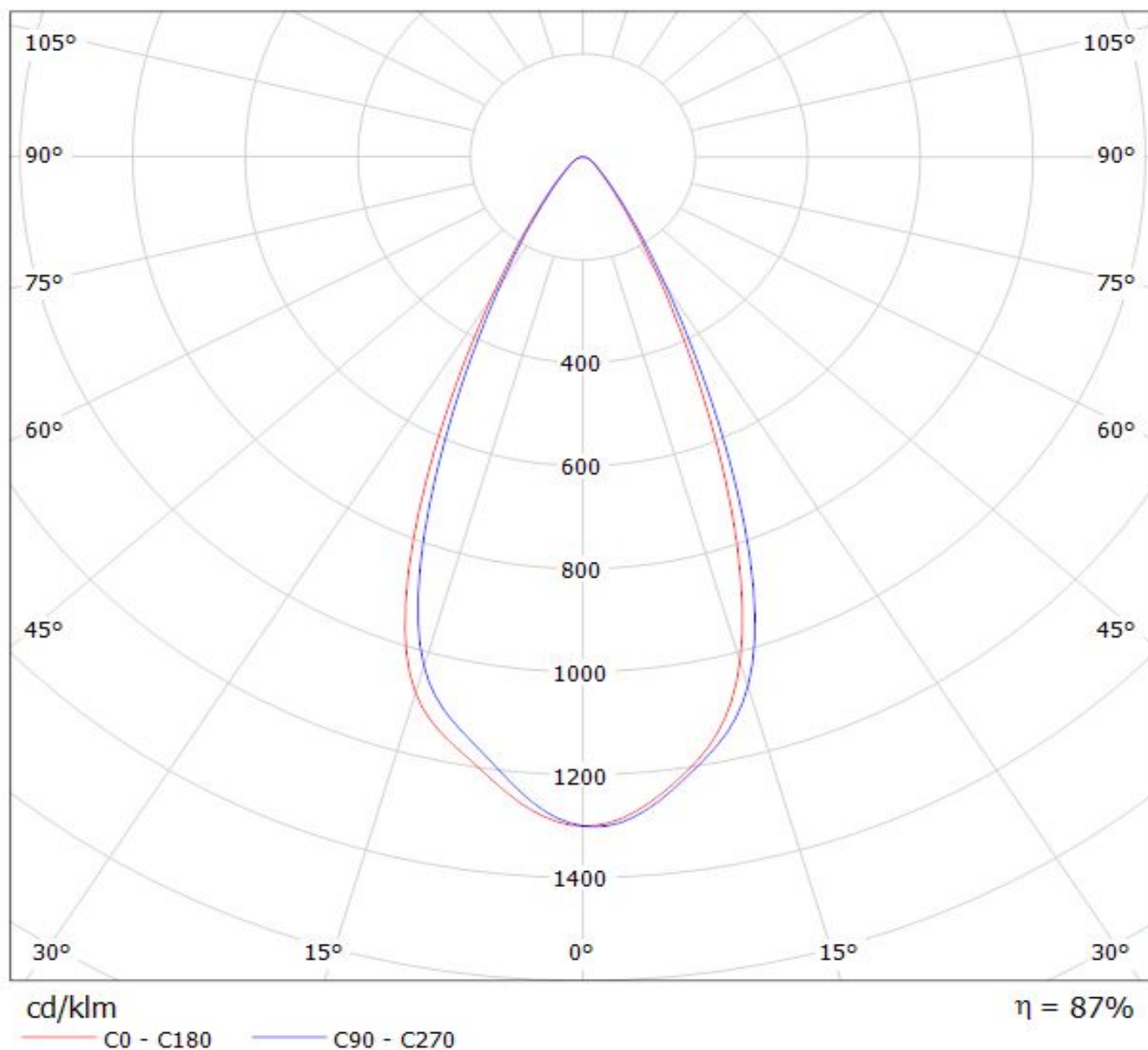
— C0 - C180 — C90 - C270

$\eta = 83\%$

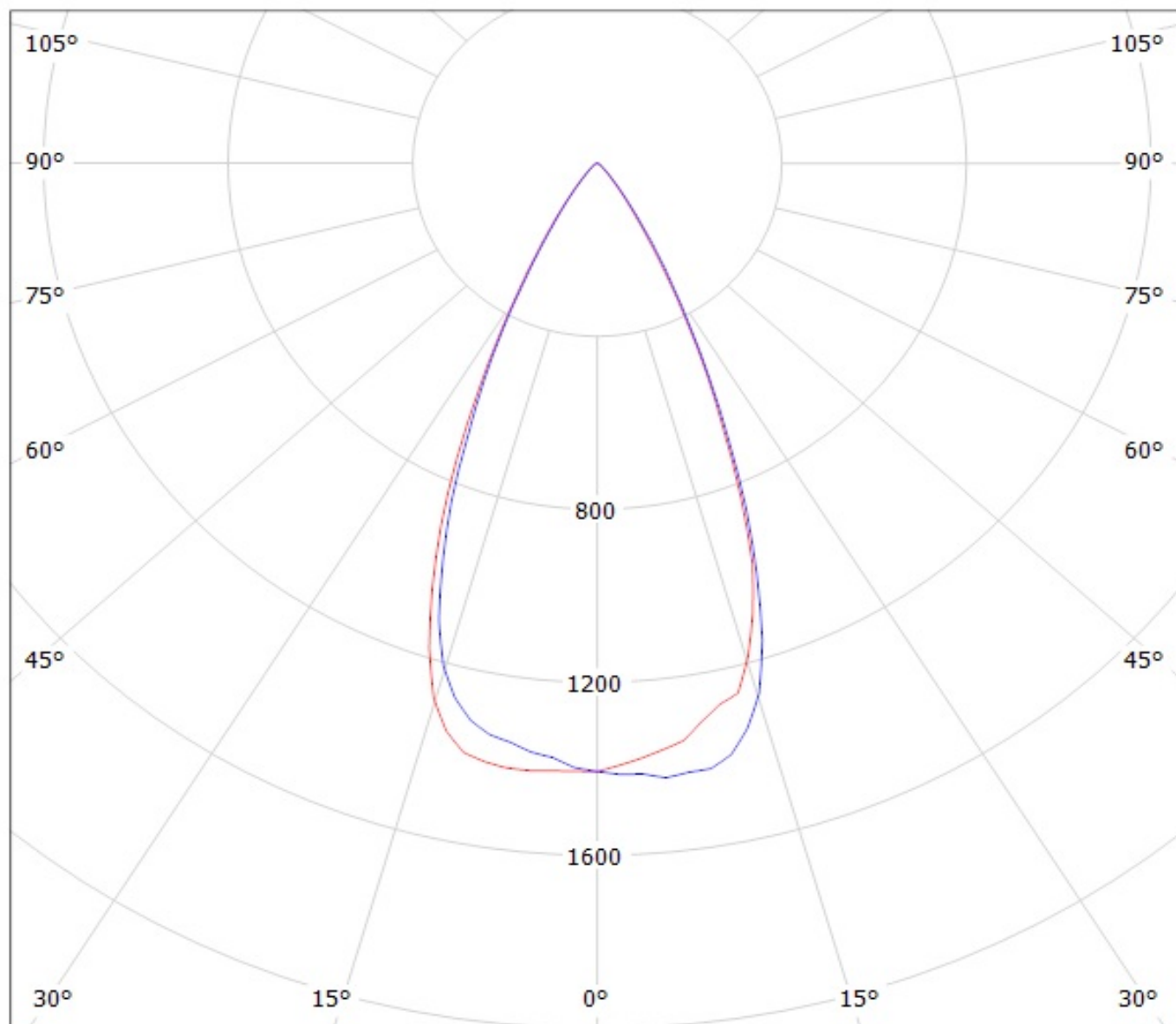


Luminaire: LEDiL Oy C13605\_HB-2X2-RW\_(WICOP2\_Z8Y19)

Lamps: 1 x SEOUL\_WICOP2\_Z8Y19\_450.124lm@250mA\_P=2.8579W\_I=0.250A



Luminaire: Ledil Oy C13605\_HB-2X2-RW (Cree XP-G2 408lm Im @ 250mA) Efficiency=91%  
Lamps: 1 x Cree XP-G2 408lm Im @ 250mA CCT=7181K P=3W I=250mA



cd/klm

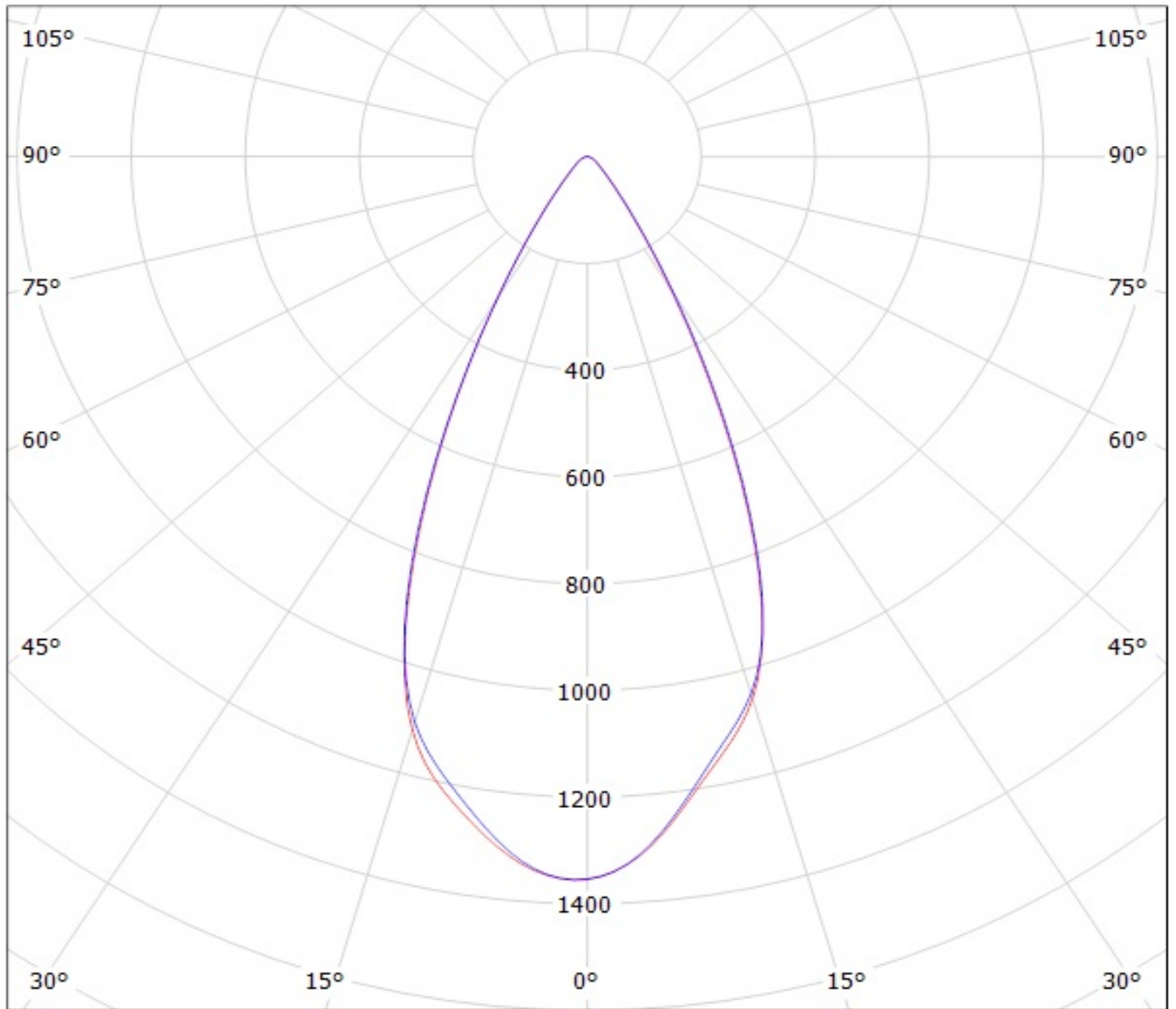
— C0 - C180

— C90 - C270



Luminaire: LEDiL Oy C13605\_HB-2X2-RW\_(LH351Z) Eff.90.2%

Lamps: 1 x SAMSUNG\_LH351Z\_2x2\_359.49lm@250mA\_P=2.86371W\_I=249.8mA

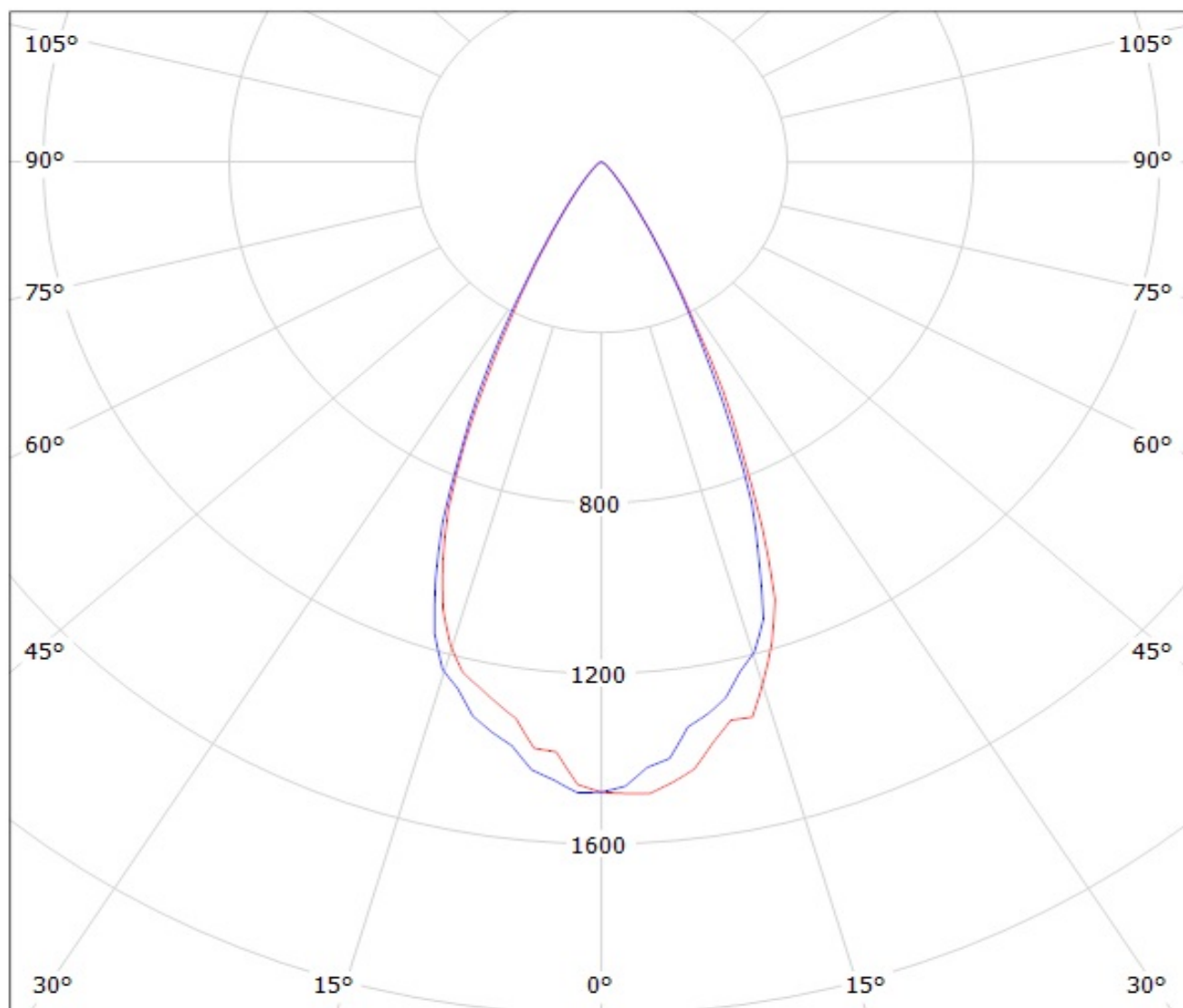


cd/klm

— C0 - C180

— C90 - C270

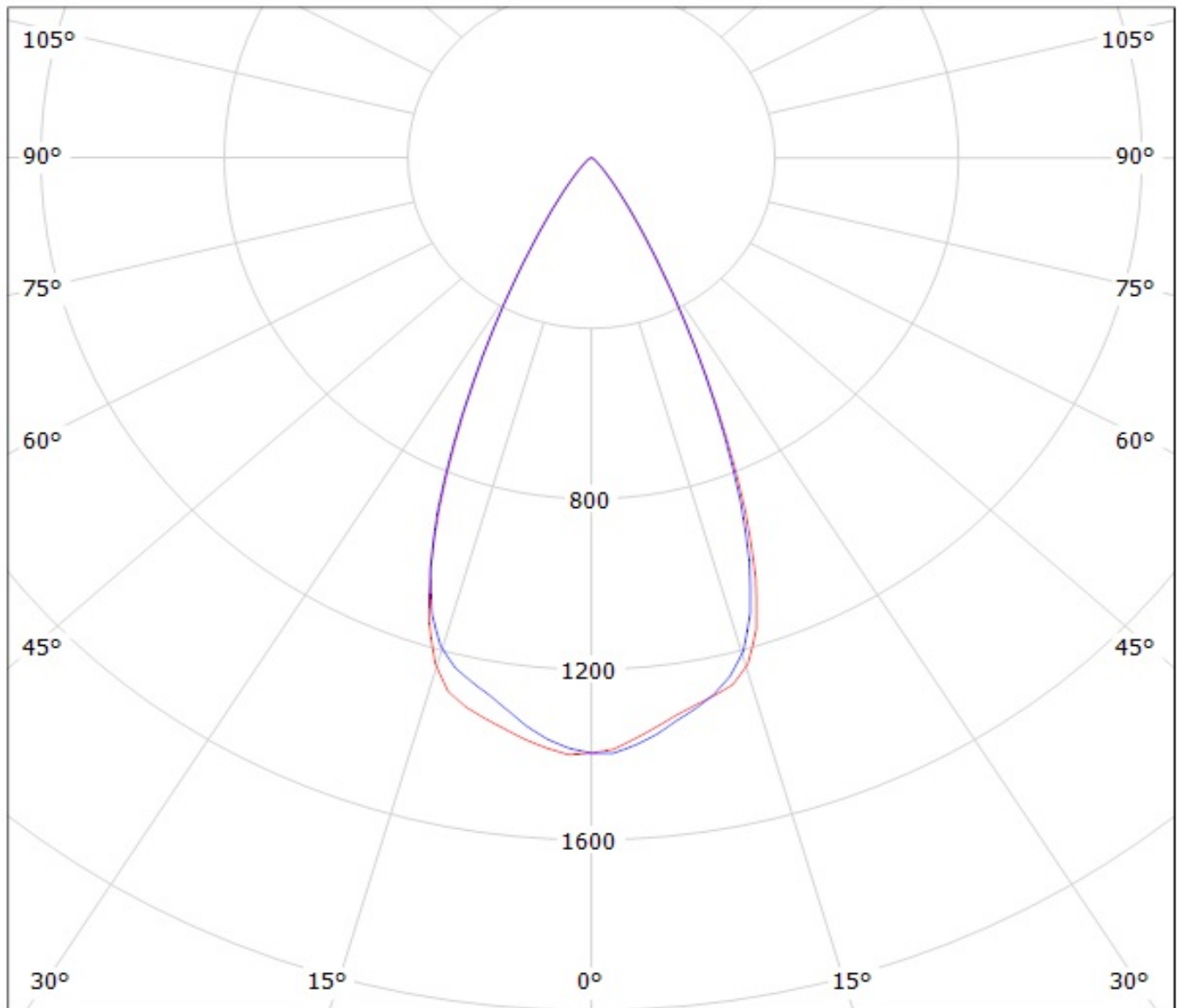
Luminaire: Ledil Oy C13605\_HB-2X2-RW\_(NCSxx19A) Efficiency=90%  
Lamps: 1 x Nichia NCSxx19A (NCSL119AT-H1) (229lm @ 250mA) CCT=2800K P=3.1W I=250mA



cd/klm

— C0 - C180    — C90 - C270

Luminaire: LEDil Oy C13605\_HB-2x2-RW\_(Z5M1) Efficiency=90%  
Lamps: 1 x Seoul (SZ5-M1-WN-C8) 379lm @ 250mA CCT=4600K P=2.9W I=250mA

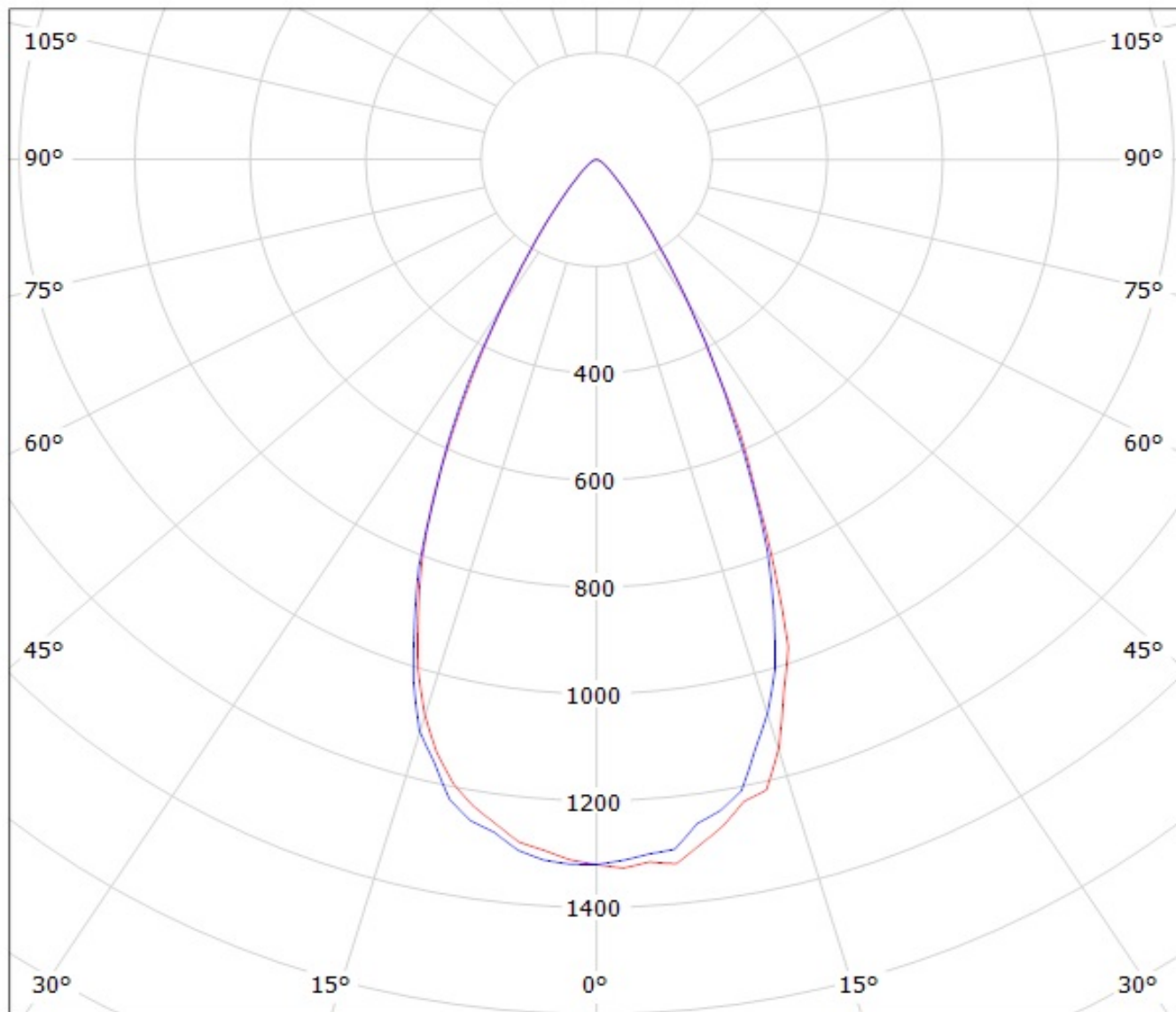


cd/klm

— C0 - C180

— C90 - C270

Luminaire: Ledil Oy C13605\_HB-2X2-RW\_(XP-G) Efficiency=89%  
Lamps: 1 x Cree XP-G (254lm @ 250mA) CCT=3300K P=2.9W I=250mA



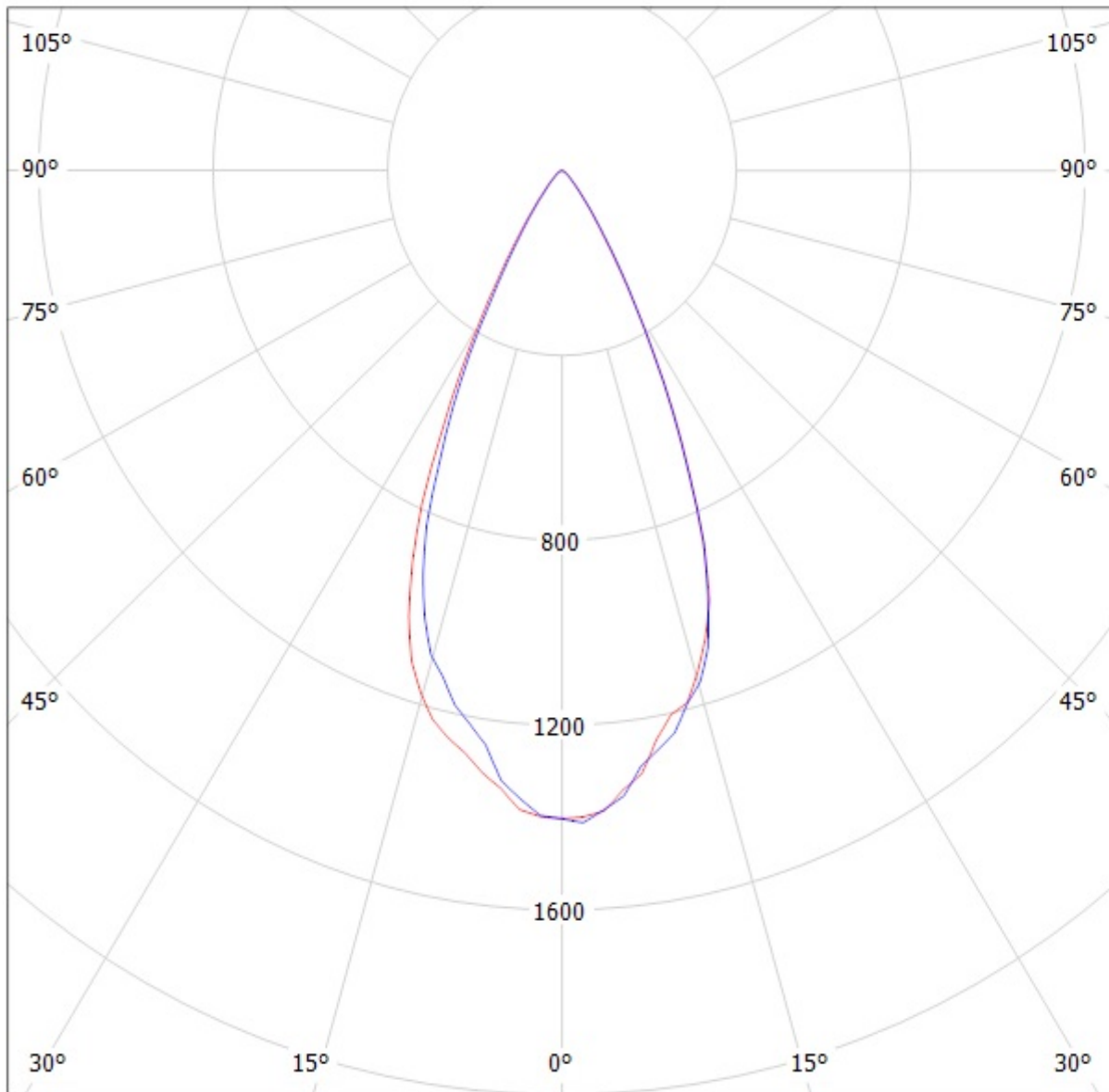
cd/klm

— C0 - C180

— C90 - C270

Luminaire: Ledil Oy C13605\_HB-2X2-RW\_(Oslon\_Square\_PC) Efficiency=90%

Lamps: 1 x Osram Oslon Square PC (LCW-CQAR.PC-MSMU-5H71-1) 389lm @ 250mA CCT=6000K P=3.0W I=250mA

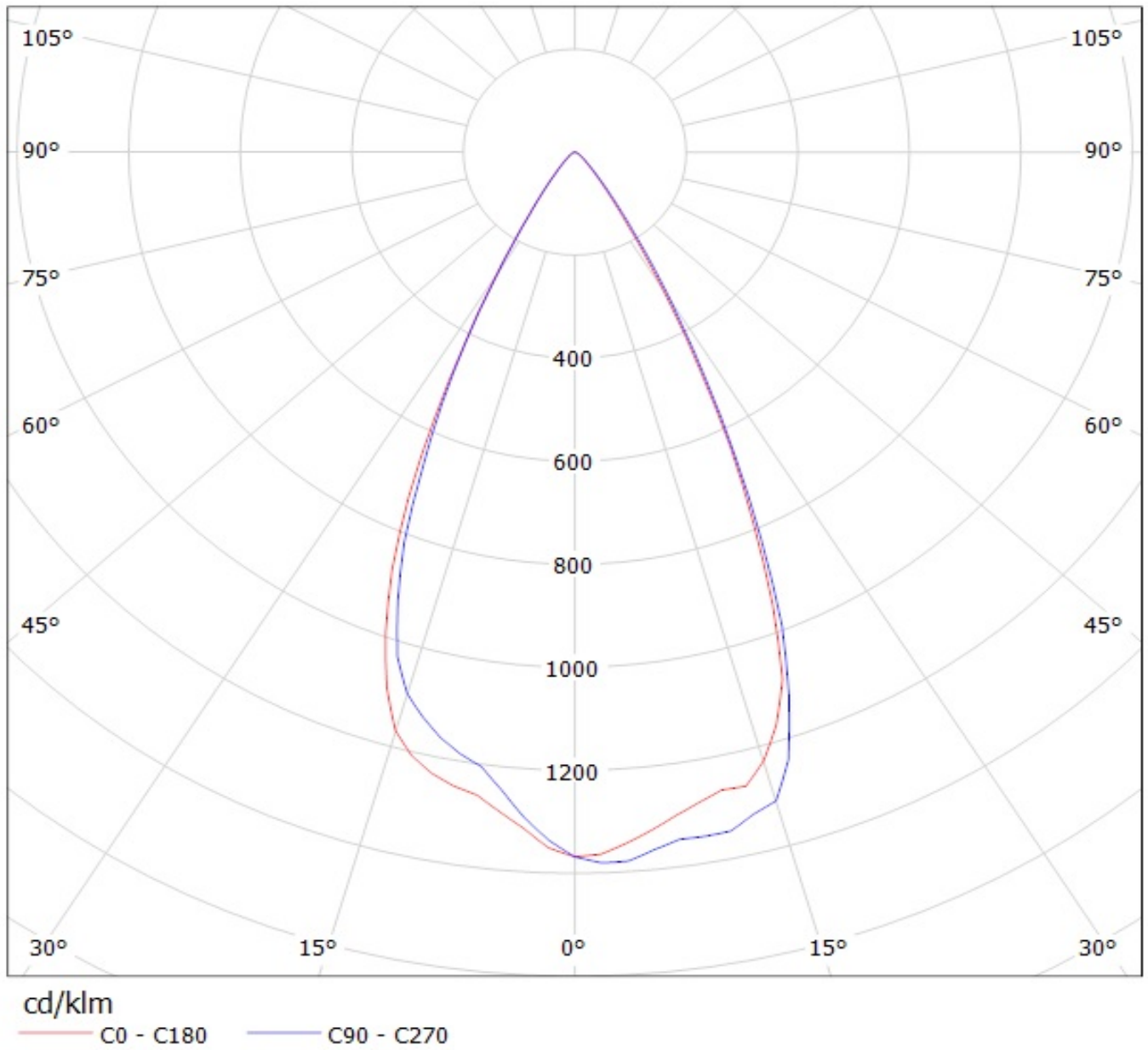


cd/klm

— C0 - C180

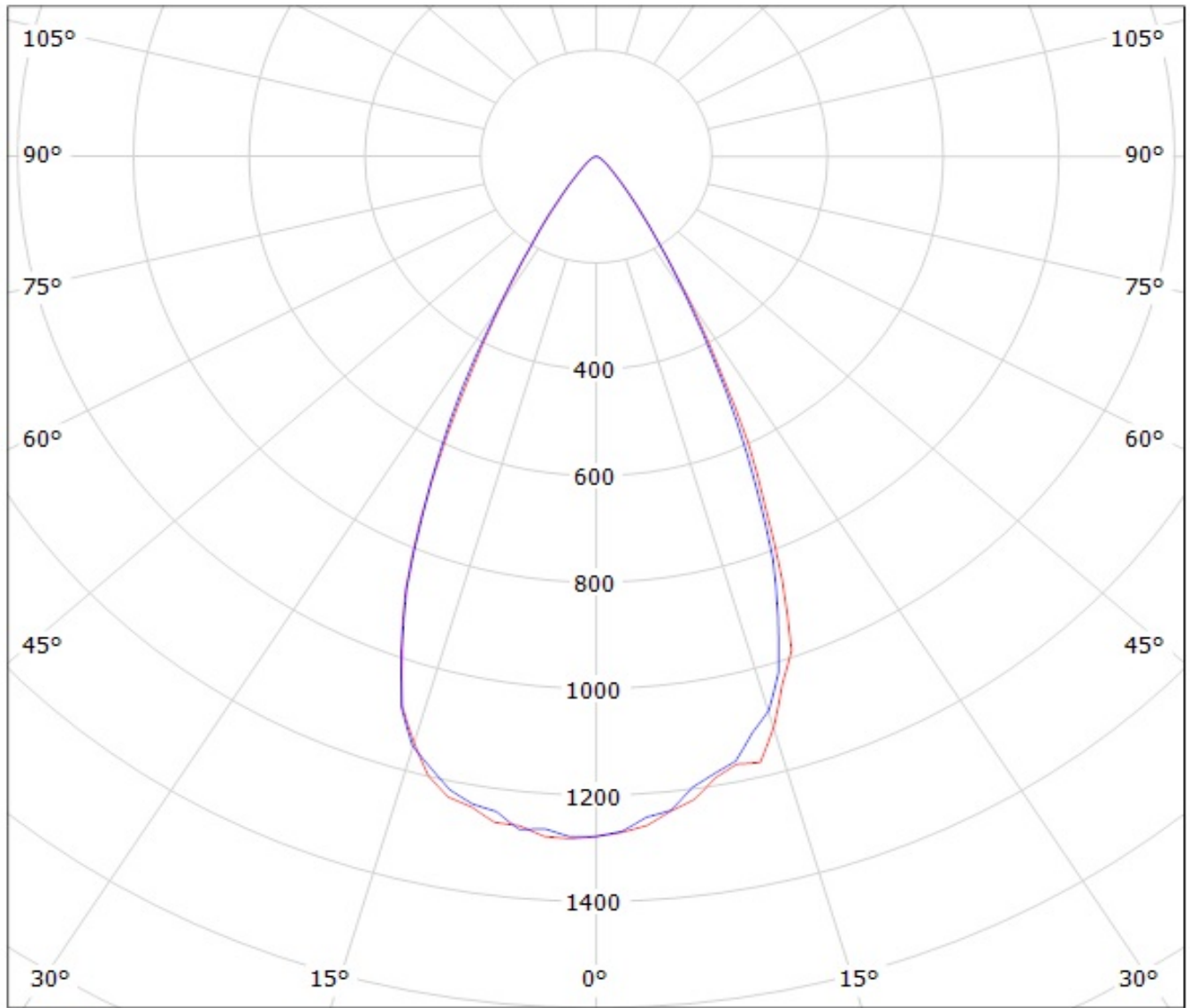
— C90 - C270

Luminaire: Ledil Oy C13605\_HB-2x2-RW\_(XP-E) Efficiency=89%  
Lamps: 1 x Cree XP-E (XPEWHT-L1-3C0-W5-0-06) 302lm @ 250mA CCT=5400K P=3.1W I=250mA





Luminaire: Ledil Oy C13605\_HB-2X2-RW\_(NVSxx19B) Efficiency=90%  
Lamps: 1 x Nichia NVSxx19B (NVSL219BE) 308lm @ 250mA CCT=3100K P=2.9W I=250mA

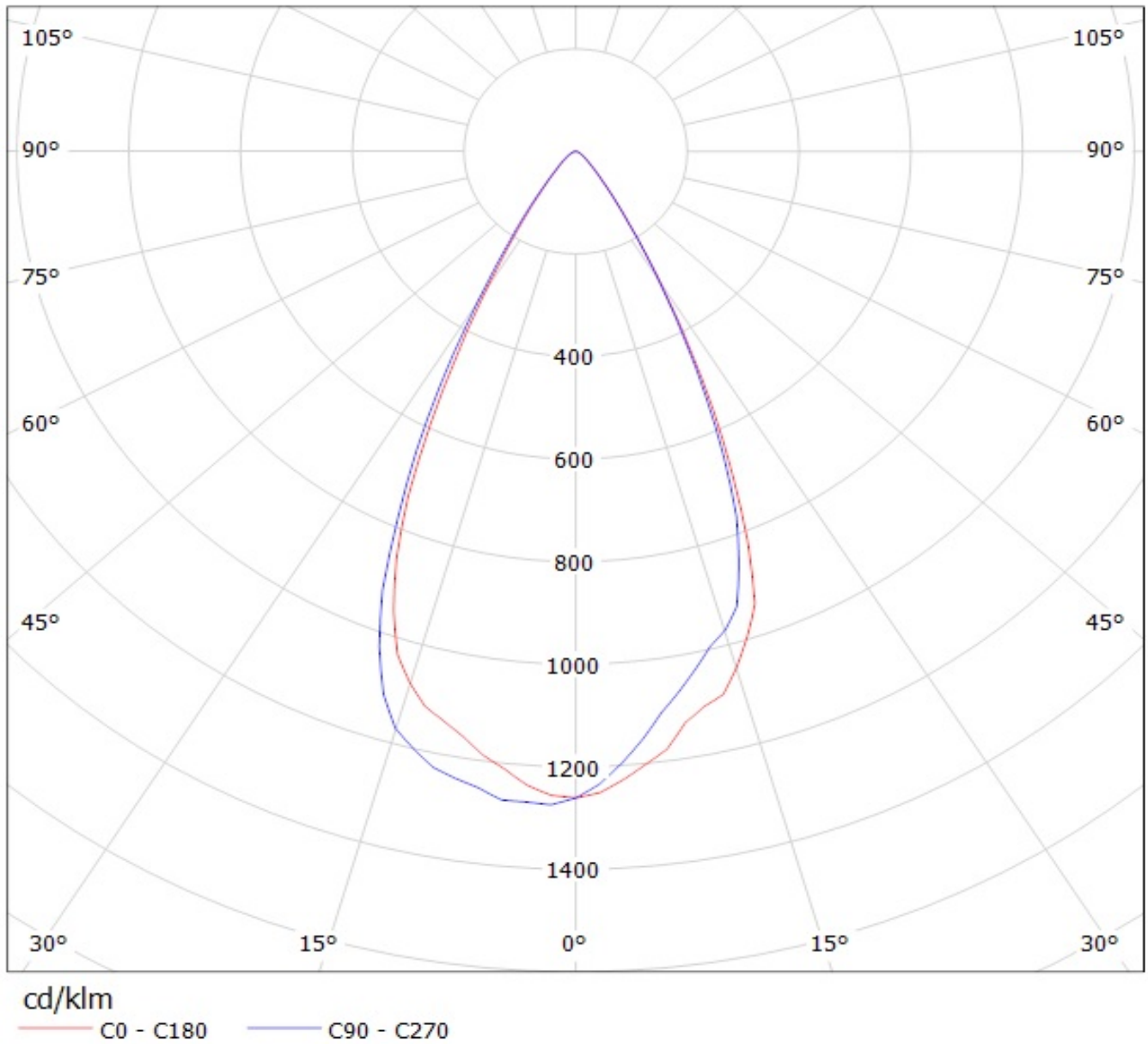


cd/klm

— C0 - C180

— C90 - C270

Luminaire: Ledil Oy C13605\_HB-2x2-RW\_(NVSxx19A) Efficiency=88%  
Lamps: 1 x Nichia NVSxx19A (NVS219AT) 382lm @ 250mA CCT=5290K P=2.9W I=250mA





**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.**