

## DETAILS

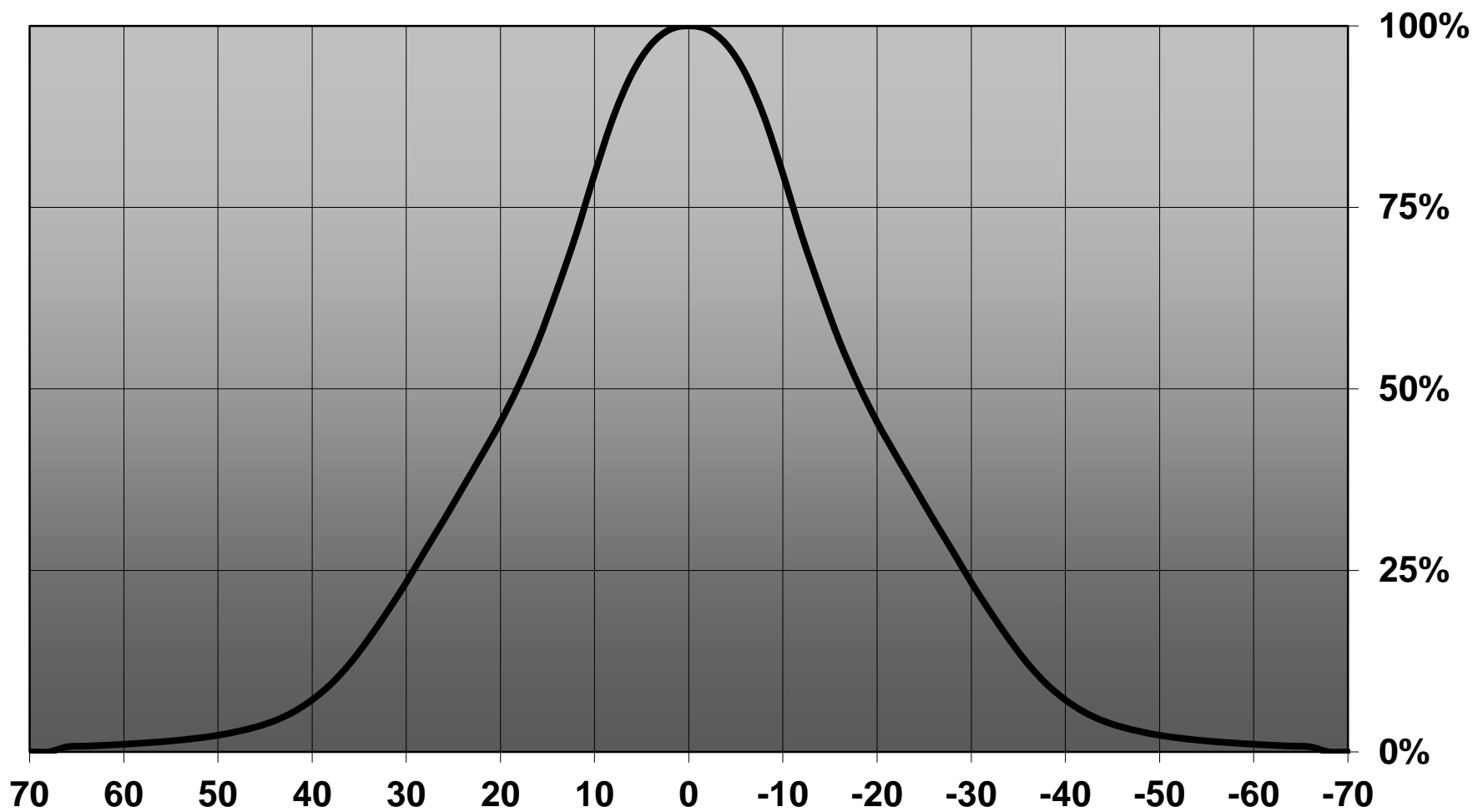
<b>Product Number</b>	FP13026_LISA2-WW-PIN
<b>Family</b>	Lisa
<b>Type</b>	Assembly
<b>Color</b>	black
<b>Diameter</b>	9,9 mm
<b>Height</b>	6,8 mm
<b>Style</b>	round
<b>Optic Material</b>	PMMA
<b>Holder Material</b>	
<b>Fastening</b>	glue, pin
<b>Status</b>	production ready
<b>ROHS Compliant</b>	Yes
<b>Date Updated</b>	15/04/2016



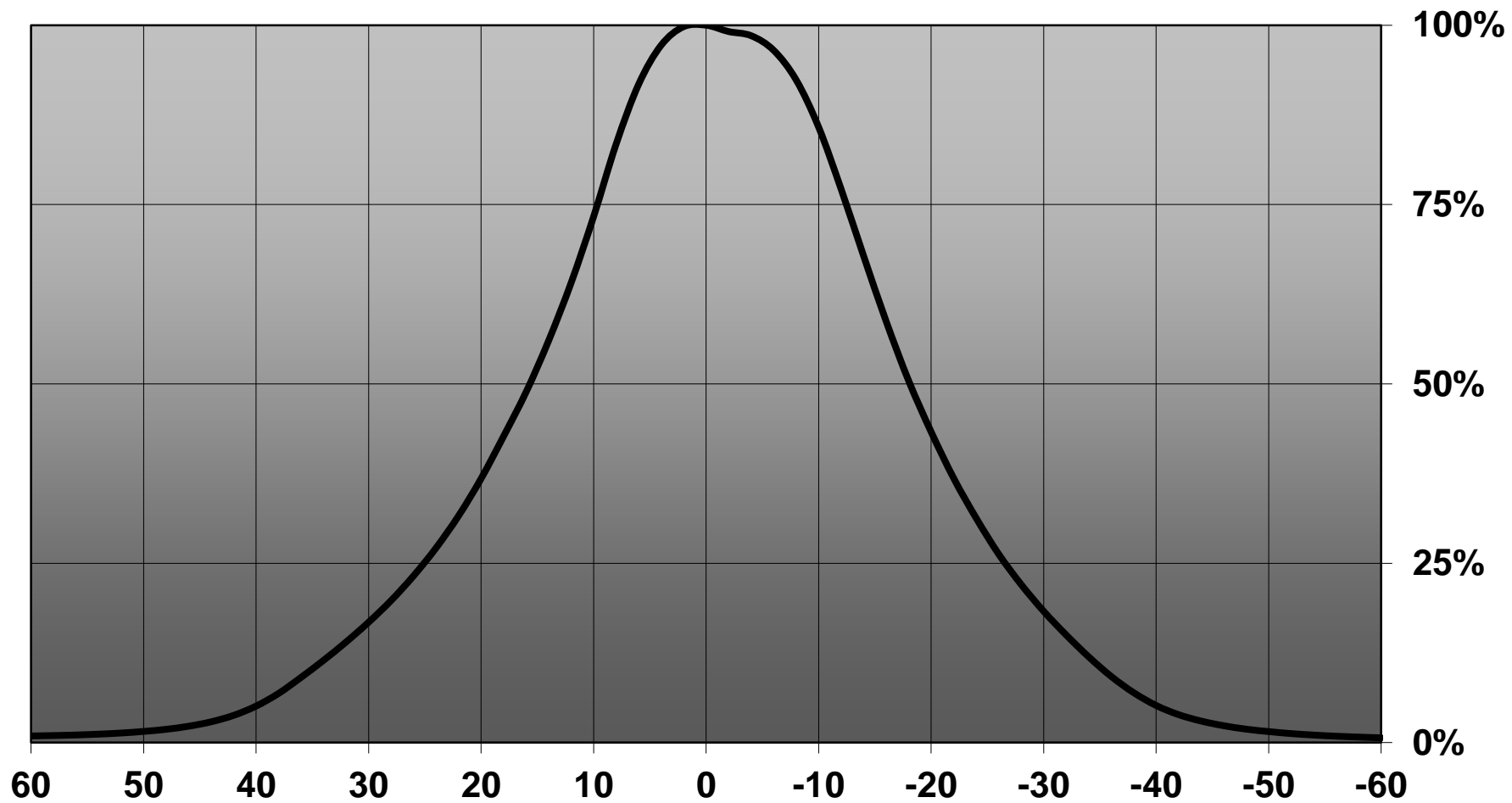
## OPTICAL PROPERTIES

LED	Viewing	Light	Effi-		Connector
	Angle	Beam	ciency	cd/lm	
XT-E	47 deg	Very Wide	84 %	1.100	-
XP-G2	47 deg	Very Wide	88 %	1.200	-
XP-E2	43 deg	Very Wide	88 %	1.350	-
XP-G3	42 deg	Very Wide	84 %	1.520	-
LUXEON Q	sim: 54	Very Wide	sim: 84 %	sim: 1.000	-
LUXEON TX	sim: 40	Very Wide	sim: 94 %	sim: 2.100	-
NCSxx19B	41 deg	Very Wide	86 %	1.500	-
SFH 4715S	36 deg	Very Wide	-	-	-
SFH 4725S	34 deg	Very Wide	-	-	-
Oslon Square EC	46 deg	Very Wide	84 %	1.600	-
SFH 4715AS	sim: 36	Very Wide	sim: 92 %	sim: 0.000	-
Oslon Black	sim: 36	Very Wide	sim: 93 %	sim: 1.700	-
Oslon SSL 80	sim: 55	Very Wide	sim: 91 %	sim: 1.100	-
LH351Z	60 deg	Very Wide	90 %	0.950	-
LH351B	56 deg	Very Wide	88 %	1.020	-
Z8Y22P	sim: 50	Very Wide	sim: 86 %	sim: 1.050	-

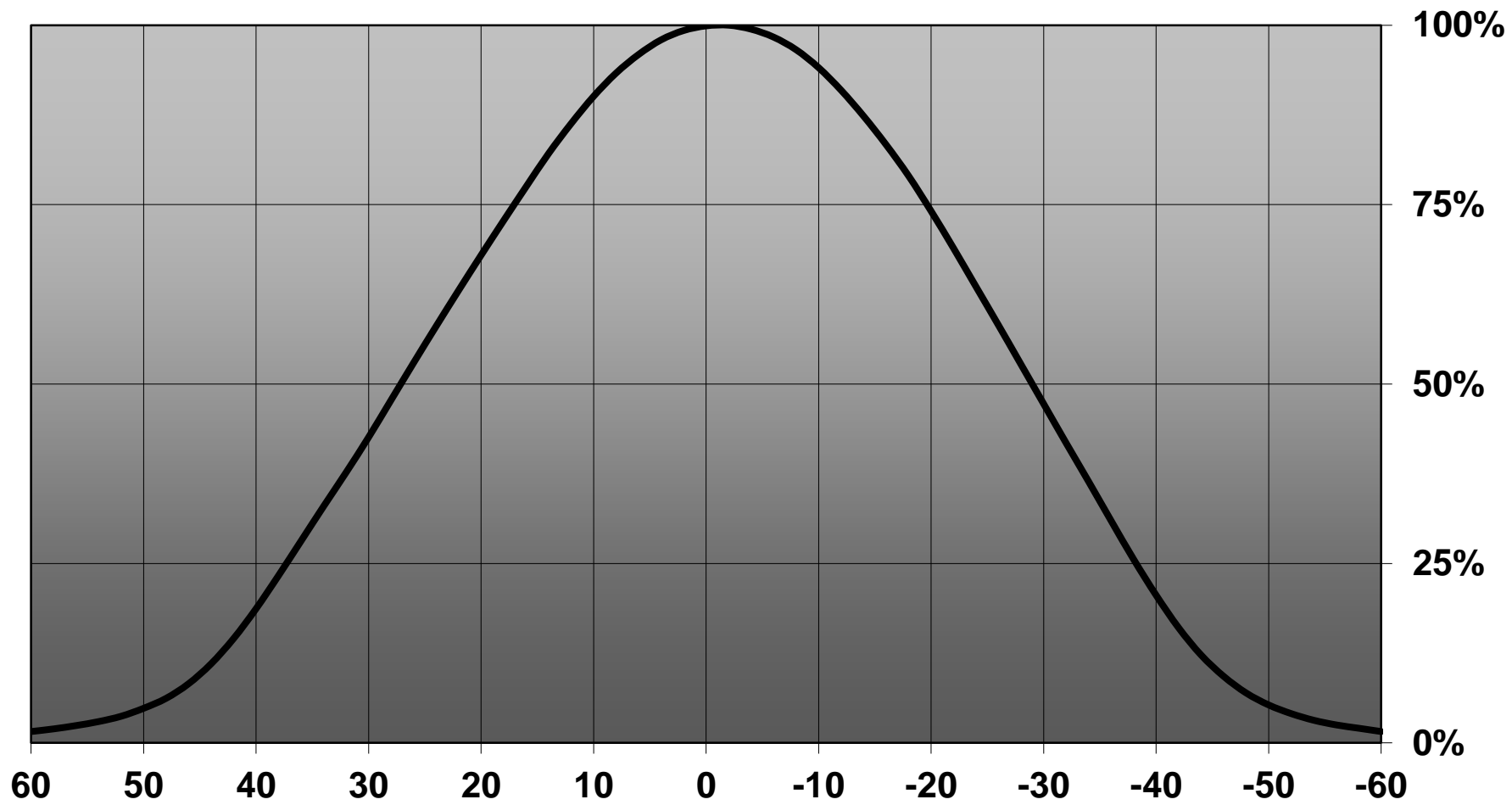
Relative intensity of FP13029&FP13026\_LISA2-WW-SFH-IR



Relative intensity of FP13026\_LISA2-WW-PIN\_(SFH4725S)



Relative intensity of FP13026\_LISA2-WW-PIN (LH351B)



D

C

B

A

4

4

3

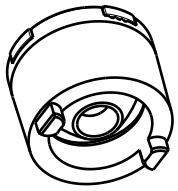
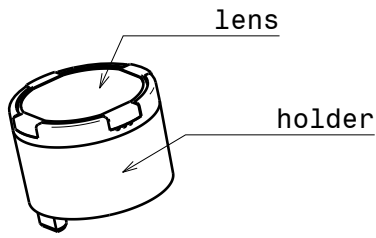
3

2

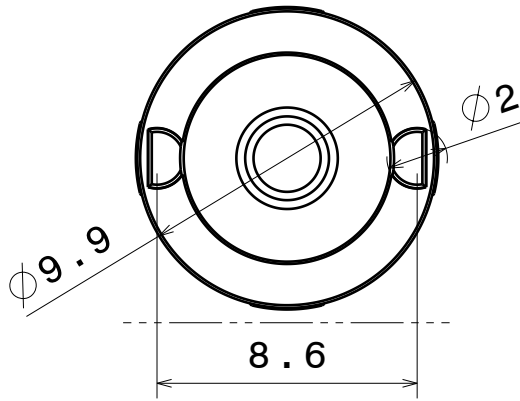
2

1

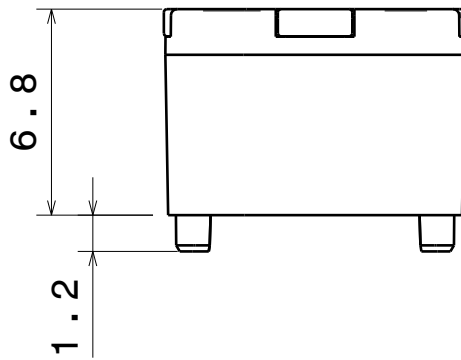
1



Isometric view  
Scale: 2:1



Bottom view



Front view

Materials:  
Lens PMMA  
Holder PC

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or communicated without  
our written agreement.



Ledil Oy  
Salorankatu 10  
FIN-24240 SALO  
Finland

DRAWING TITLE

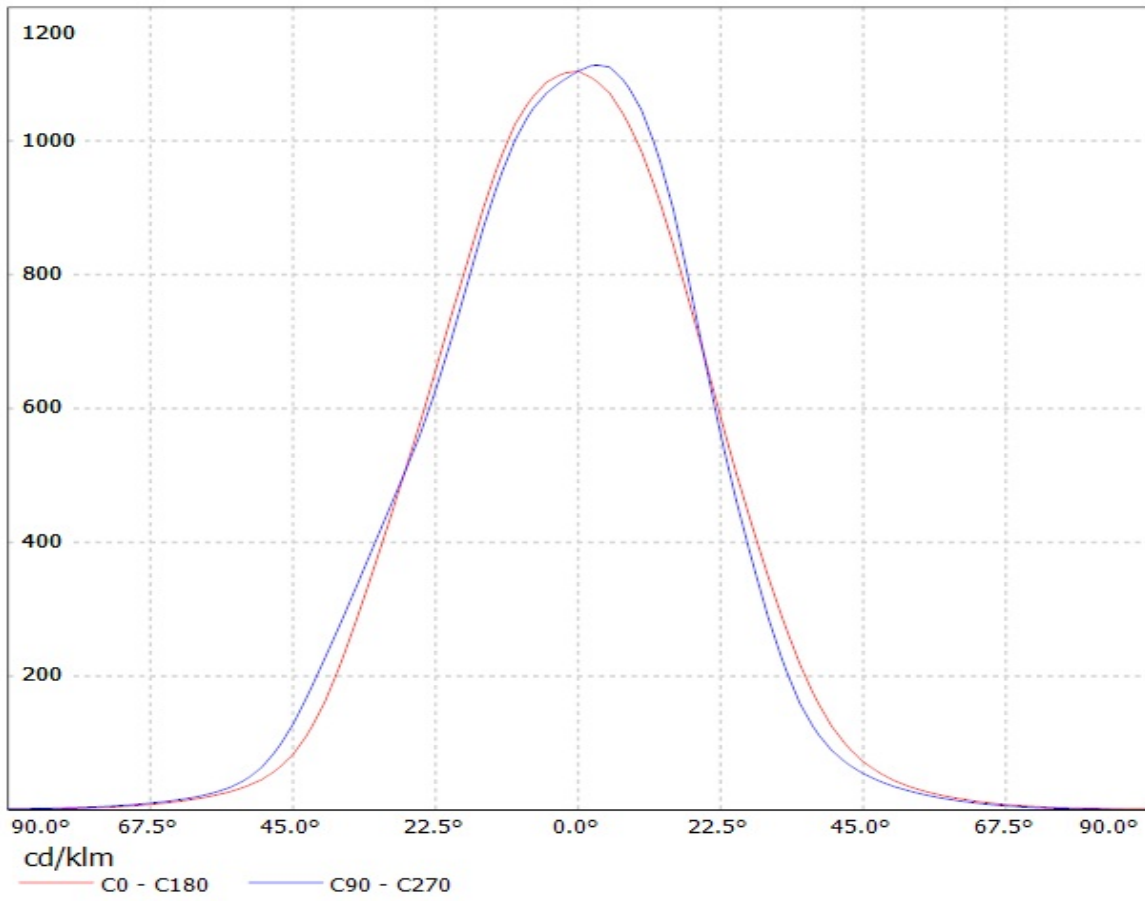
Datasheet Lisa2-Pin-XT Series Assy

DRAWN BY pl	DATE 20.06.2012	SIZE A4		DRAWING NUMBER		REV 1
CHECKED BY	DATE	SCALE 4:1		WEIGHT (g)		SHEET 1/1
DESIGNED BY pl	DATE 20.06.2012					

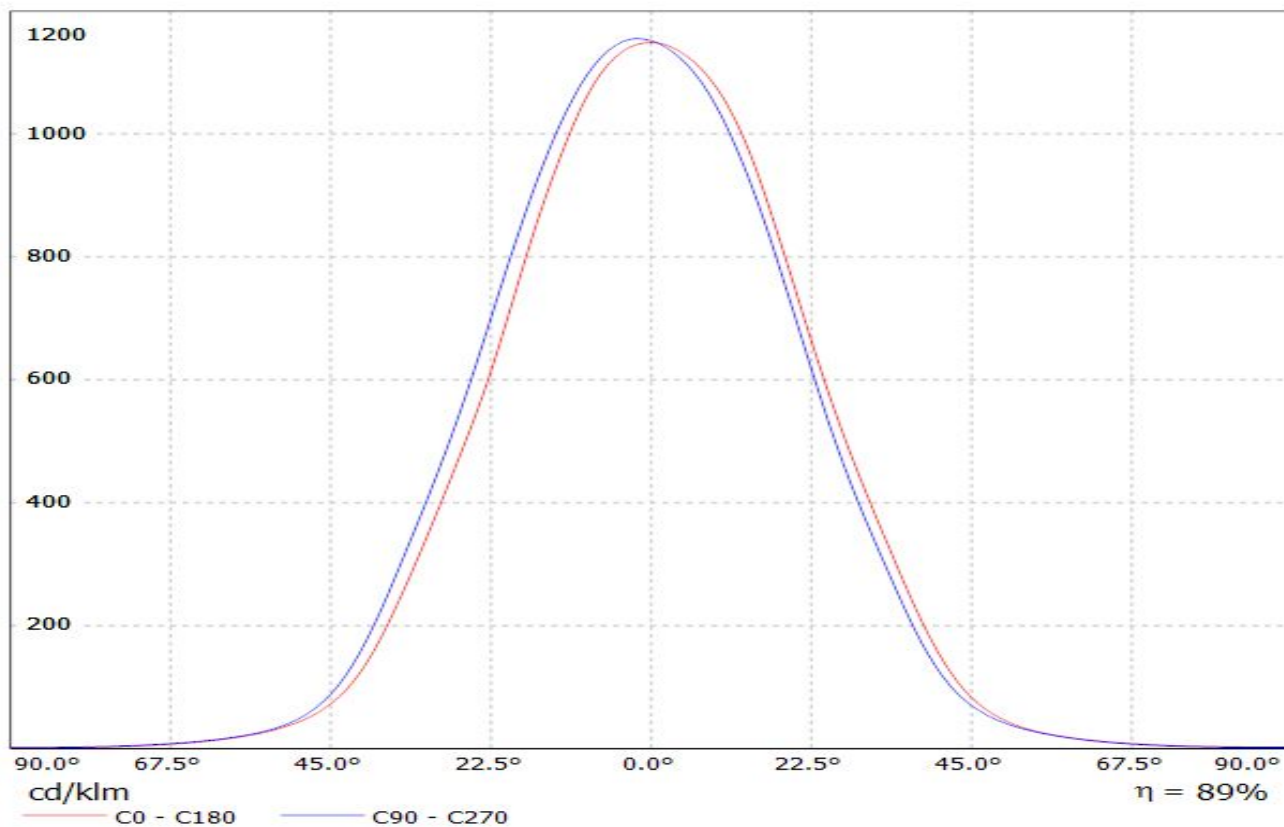
D

A

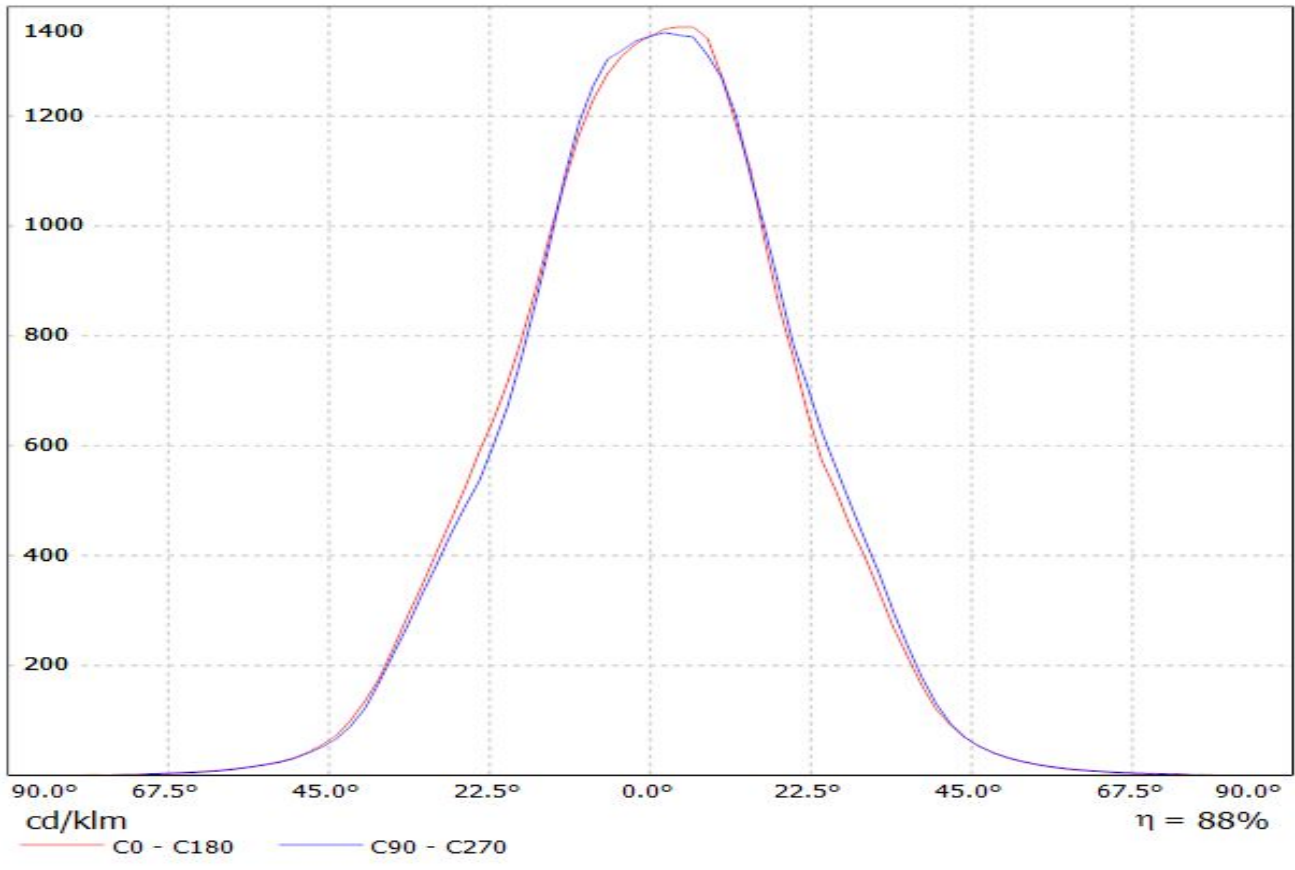
Luminaire: LEDIL OY FP13026\_LISA2-WW-PIN & FP13029\_LISA2-WW-CLIP-XTE (Cree XT-E 98lm @ 250mA) Efficiency=84%  
Lamps: 1 x CREE XT-E (98.9lm)



Luminaire: LEDiL Oy FP13026&FP13029\_LISA2-WW\_(XP-G2) Eff. 89%  
Lamps: 1 x Cree\_(XP-G2) 104lm@250mA CCT=6600K P=0.76W I=250mA



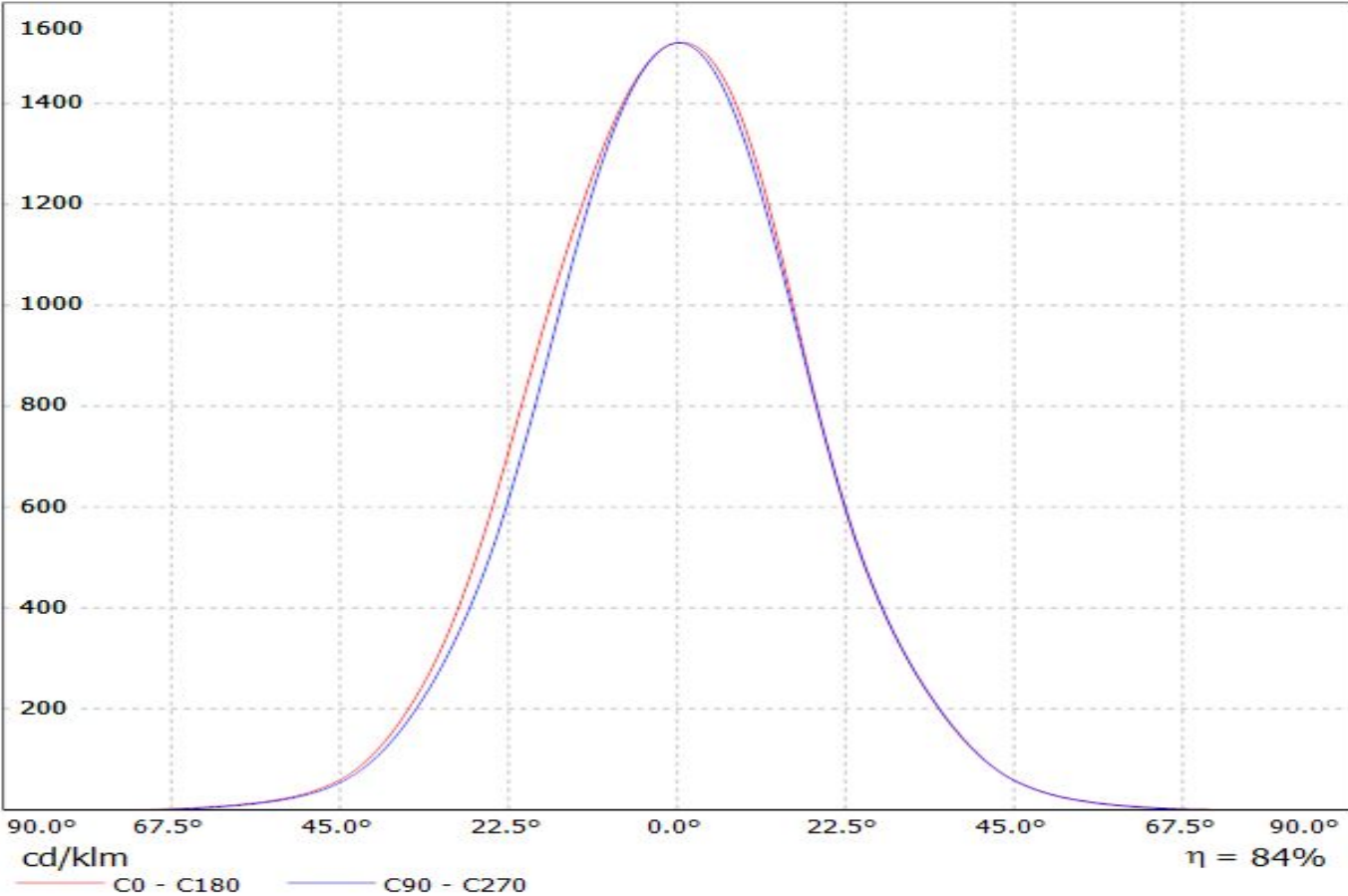
Luminaire: Ledil Oy FP13026&FP13029\_LISA2-WW\_PIN&CLIP (XP-E2) Eff. 88%  
Lamps: 1 x Cree XP-E2 cool white 92lm@250mA CCT=5600K P=0.75W I=250mA



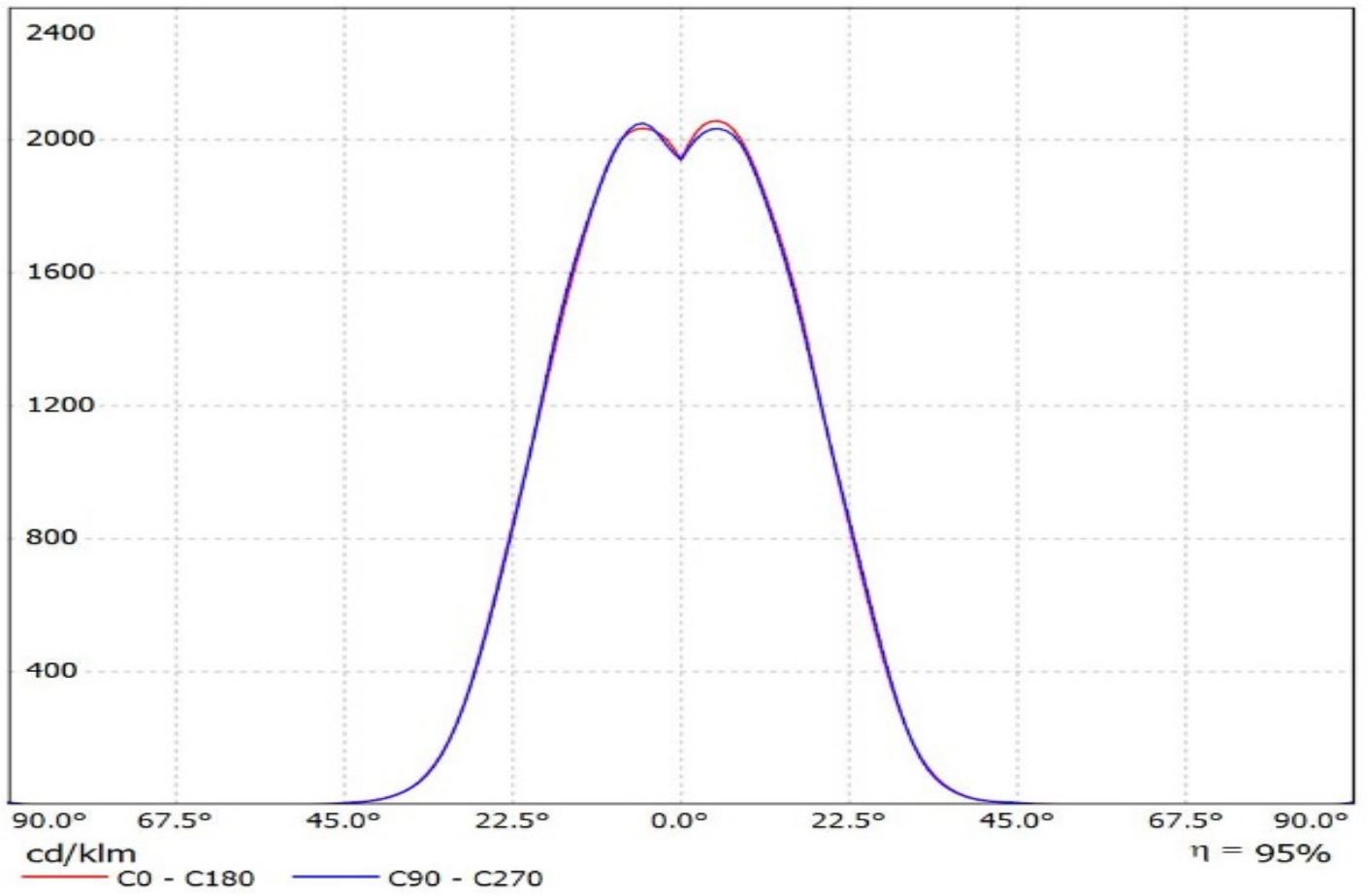


Luminaire: Ledil Oy

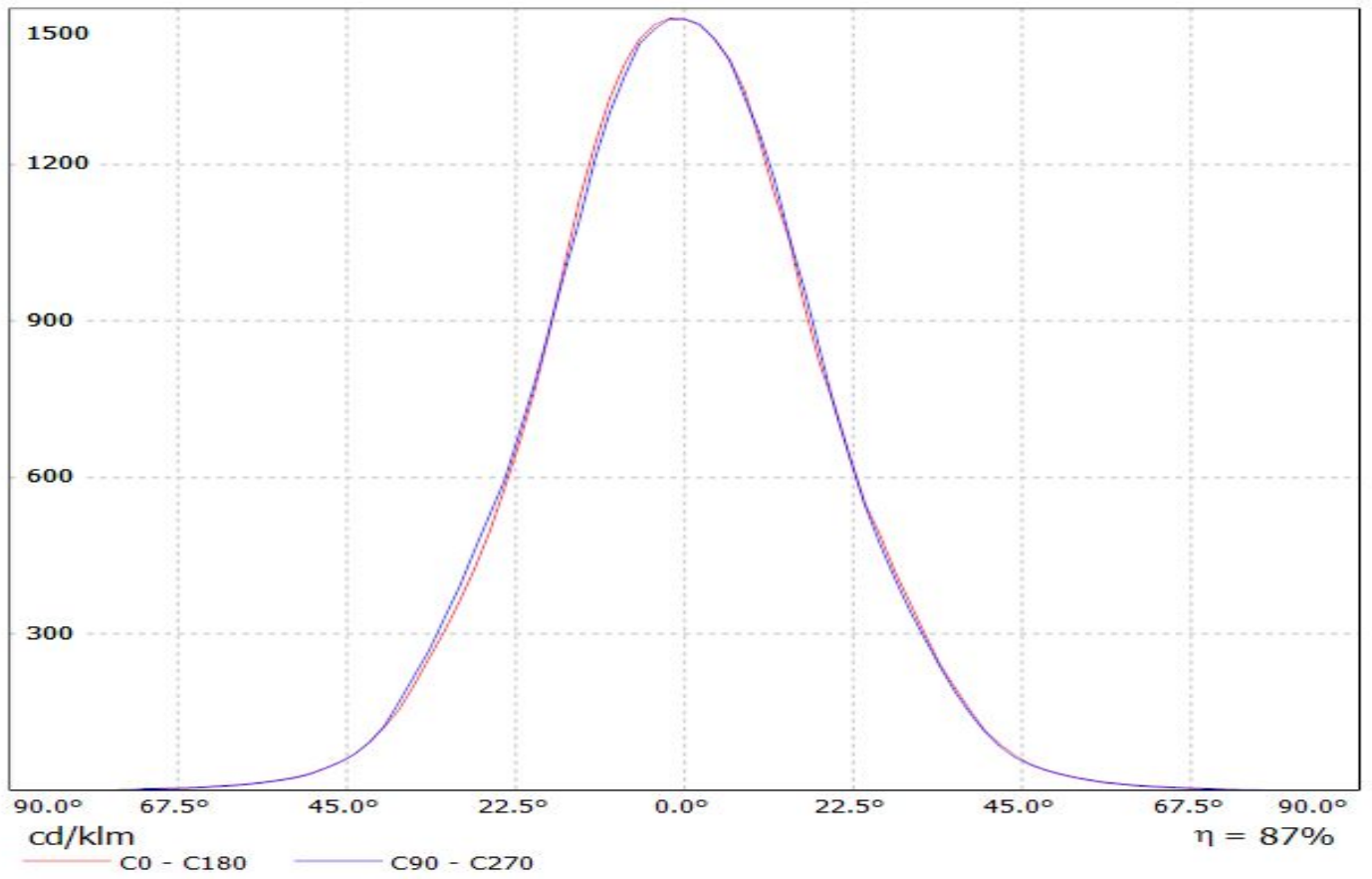
Lamps: 1 x



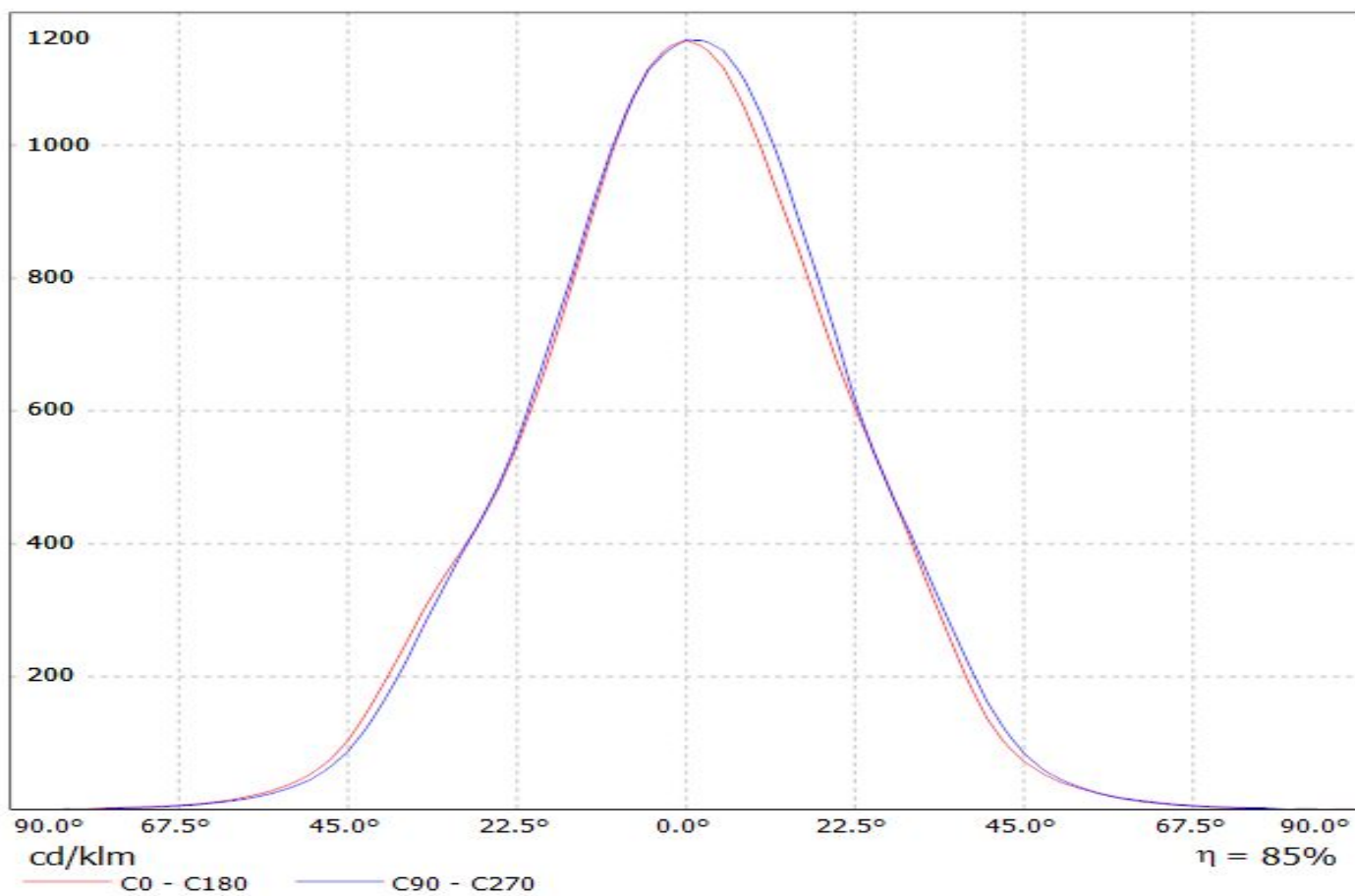
Luminaire: Ledil Oy FP13026\_LISA2-WW-PIN\_(Luxeon\_TX)\_SIMULATED  
Lamps: 1 x Lumileds Luxeon TX



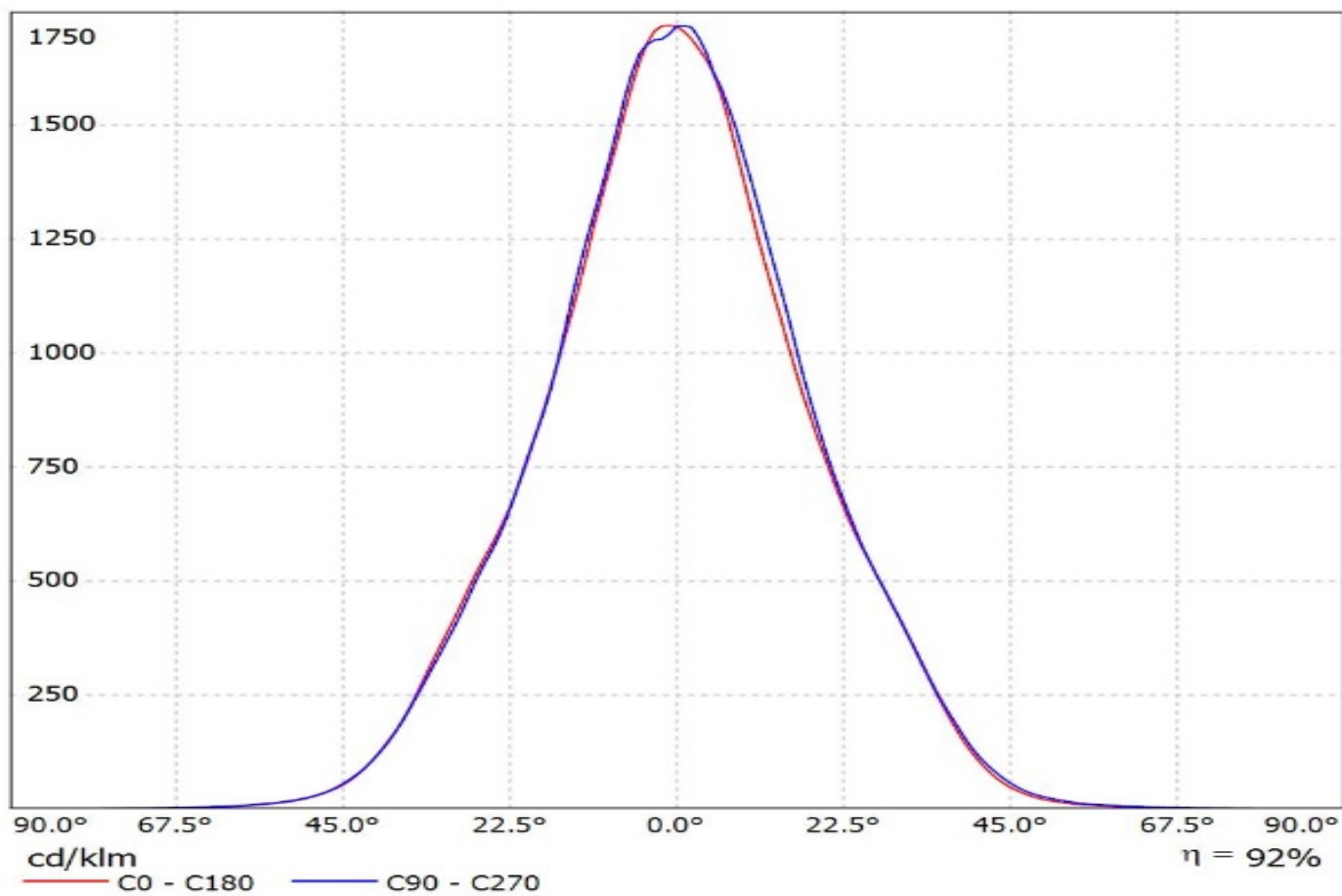
Luminaire: Ledil Oy FP13026&FP13029\_LISA2-WW-PIN\_(NCSxx19B) Eff. 86%  
Lamps: 1 x Nichia NCSxx19B (NCSL119BE) 88lm @ 250mA CCT=3000K P=0.8W I=250mA



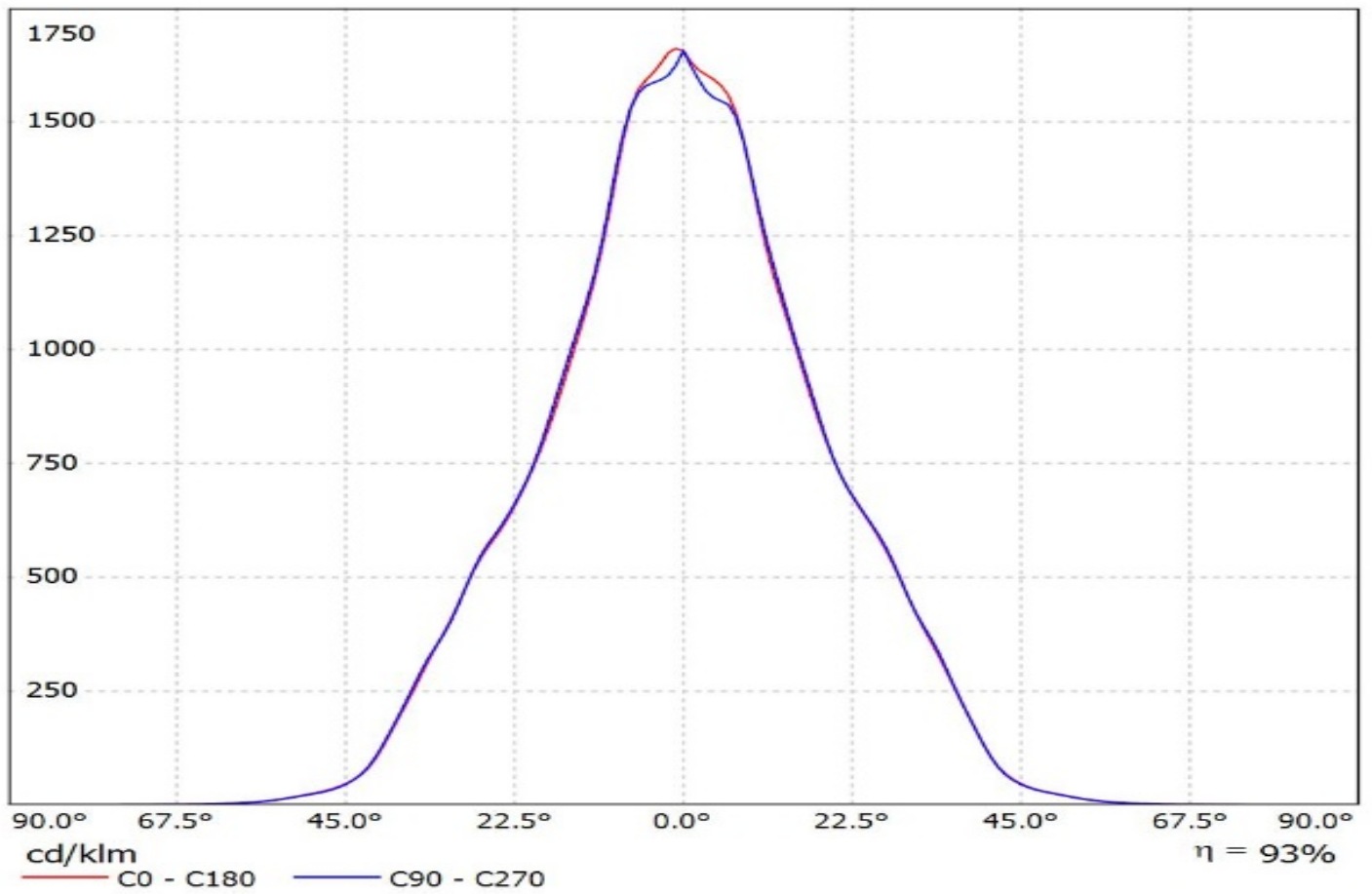
Luminaire: LEDiL Oy  
Lamps: 1 x FP13026\_LISA2-WW-PIN\_(SQ)



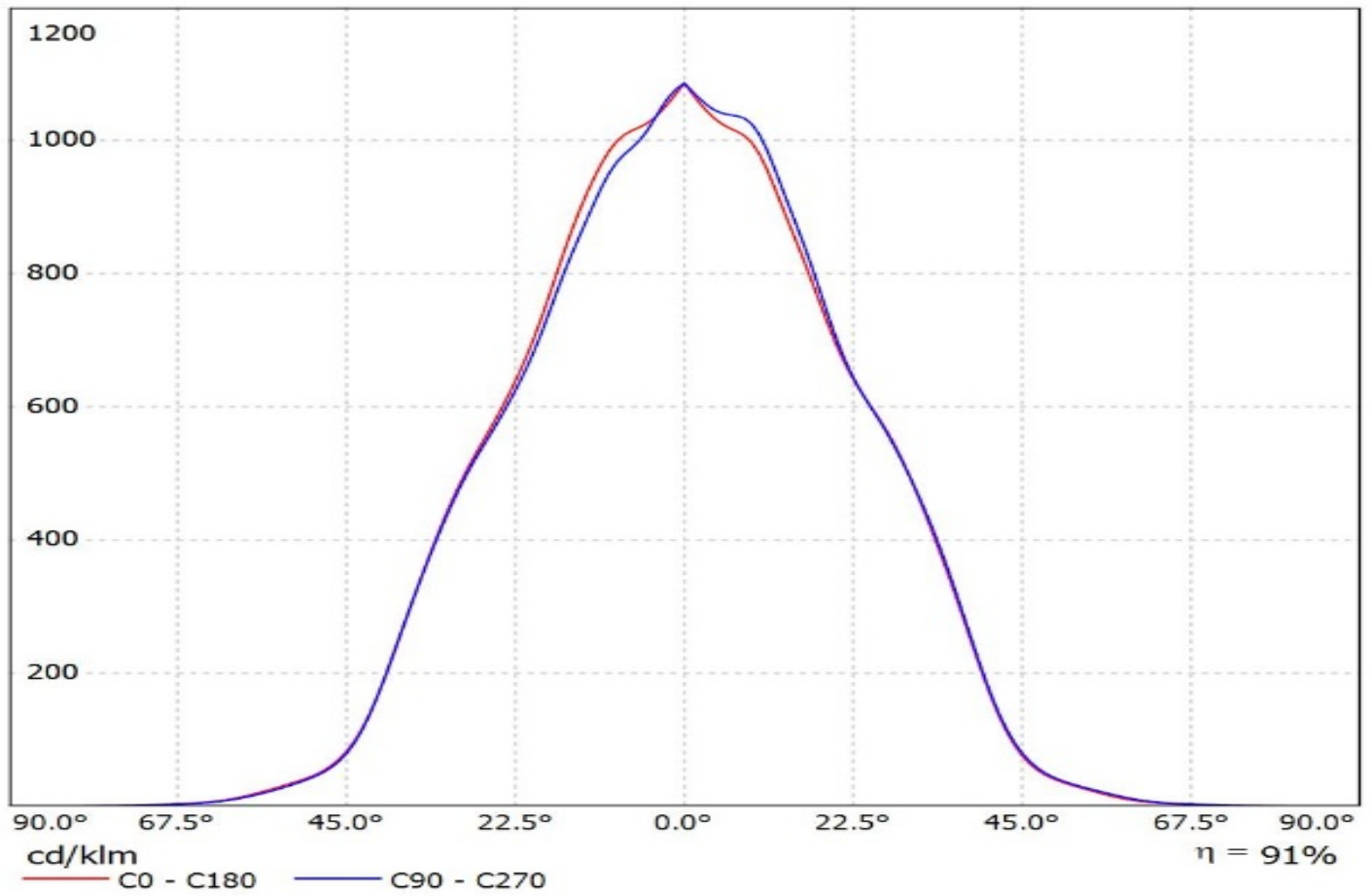
Luminaire: Ledil Oy FP13026\_LISA2-WW-PIN\_(SFH\_4715AS)\_SIMULATED  
Lamps: 1 x Osram SFH 4715AS with changed wavelenght to 550 nm



Luminaire: Ledil Oy FP13026\_LISA2-WW-PIN\_(Oslon\_Black)\_SIMULATED  
Lamps: 1 x Osram Oslon Black - LCW H9GP

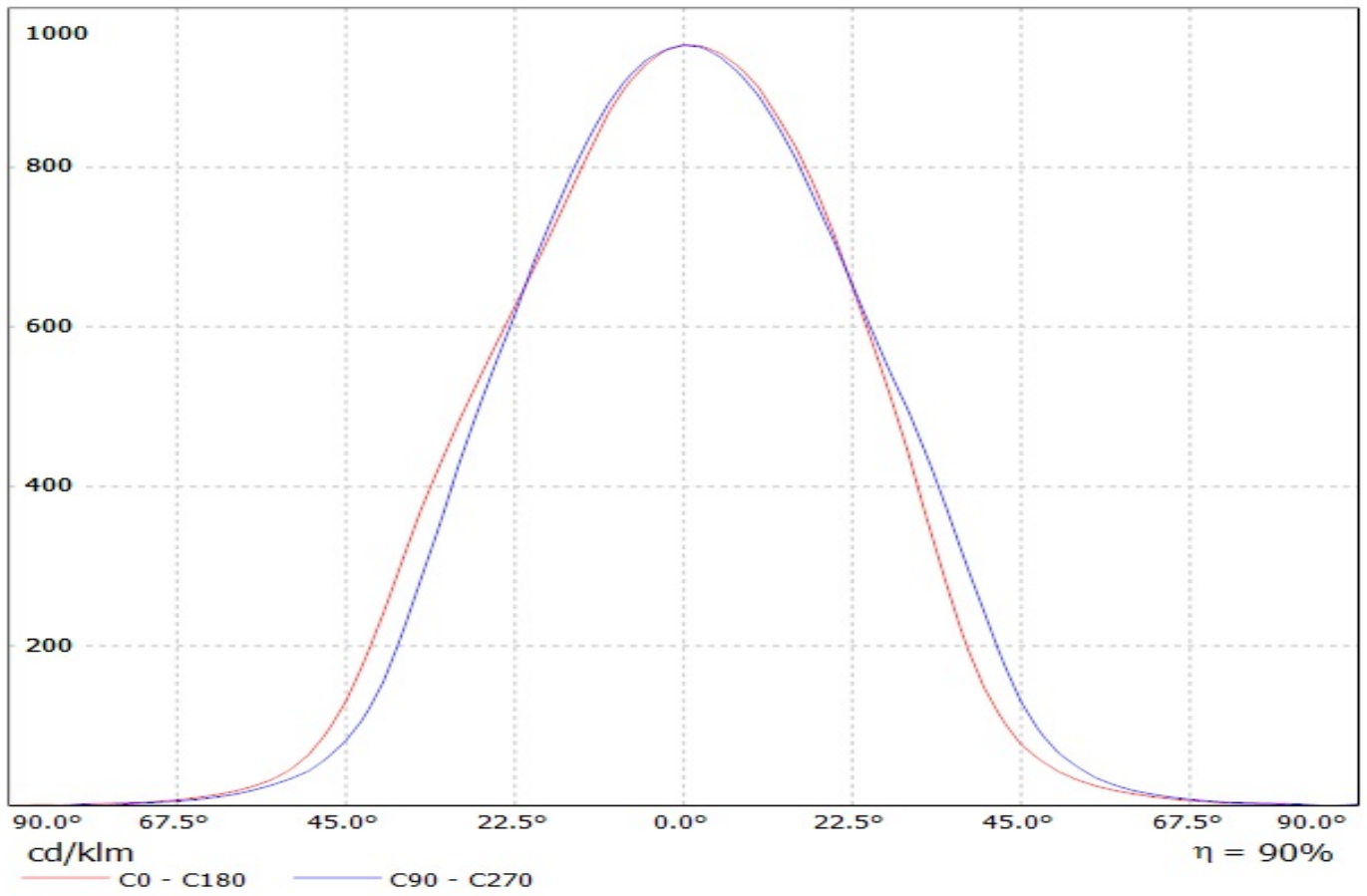


Luminaire: Ledil Oy FP13026\_LISA2-WW-PIN\_(Oslon\_SSL\_80)\_SIMULATED  
Lamps: 1 x Osram Oslon SSL 80 - GW CS8PM1.PM



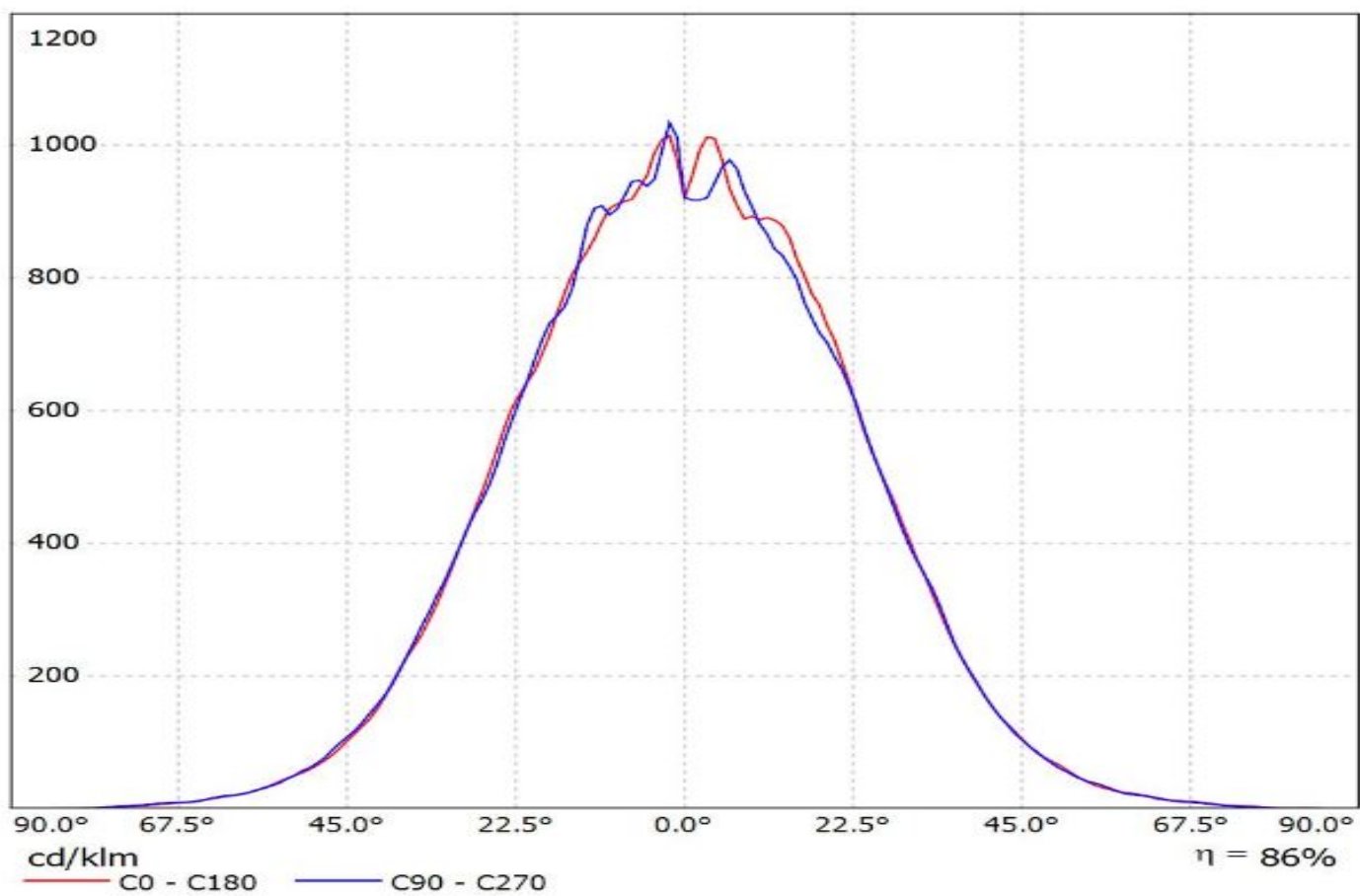
Luminaire: LEDil Oy FP13026\_LISA2-WW-PIN\_(LH351Z)

Lamps: 1 x Samsung LH351Z (90.14lm @ 250mA) CCT=6500K P=0.7W I=250mA

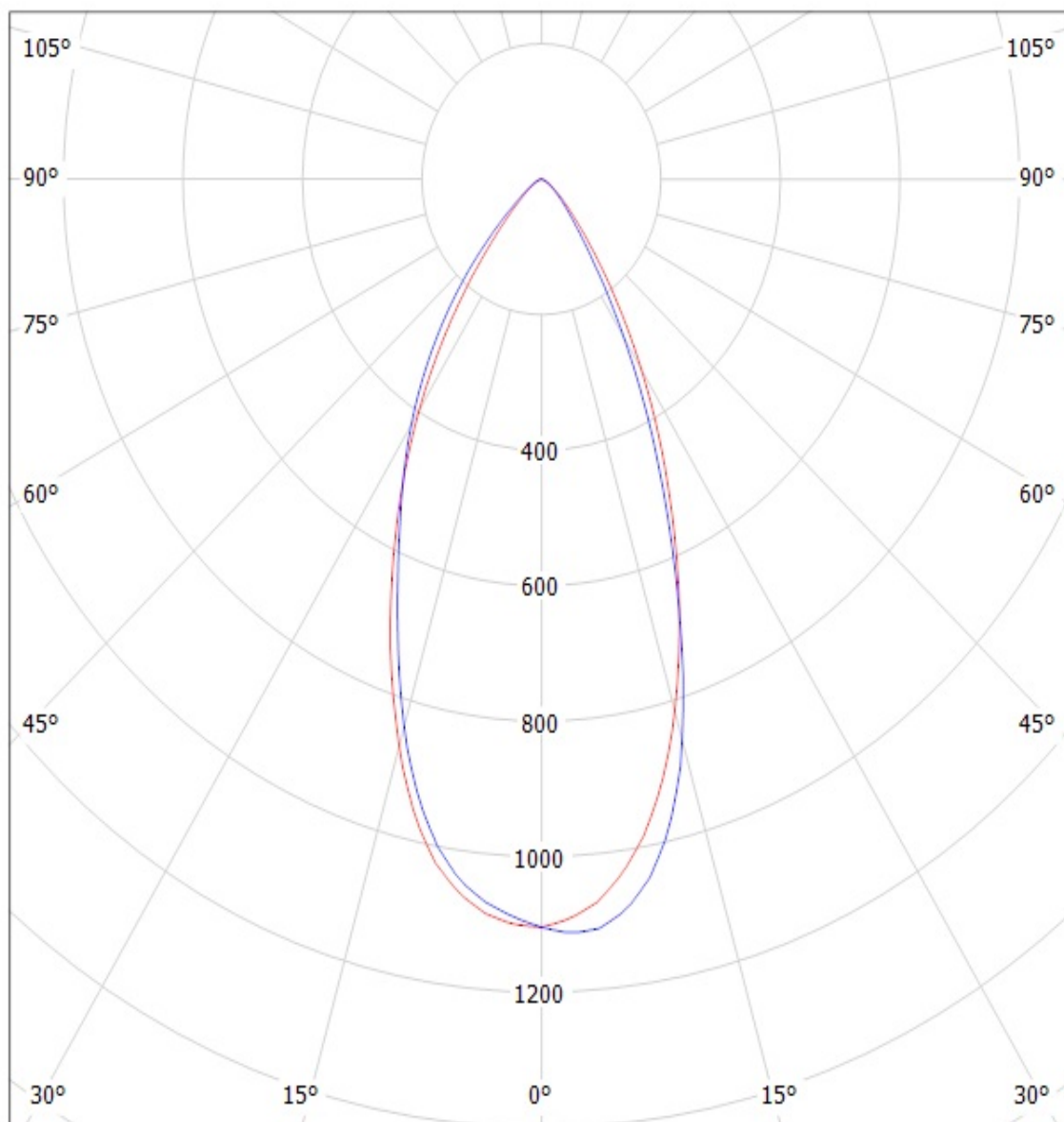




Luminaire: Ledil Oy FP13026\_LISA2-WW-PIN\_Seoul\_Z8Y22P\_SIMULATED  
Lamps: 1 x Seoul Z8Y22P



Luminaire: LEDIL OY FP13026\_LISA2-WW-PIN & FP13029\_LISA2-WW-CLIP-XTE (Cree XT-E 98lm @ 250mA) Efficiency=84%  
Lamps: 1 x CREE XT-E (98.9lm)

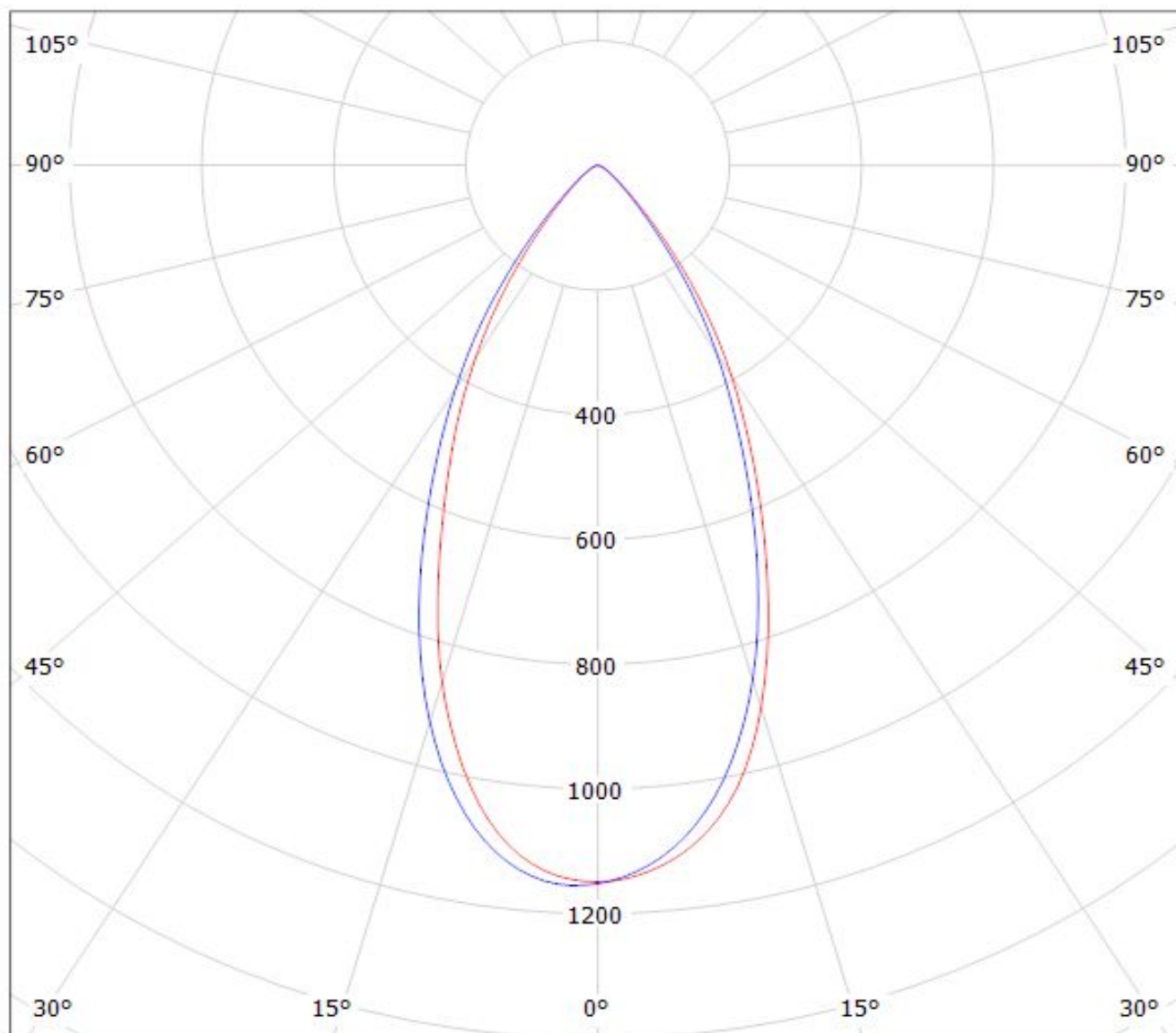


cd/klm

— C0 - C180

— C90 - C270

Luminaire: LEDiL Oy FP13026&FP13029\_LISA2-WW\_(XP-G2) Eff. 89%  
Lamps: 1 x Cree\_(XP-G2) 104lm@250mA CCT=6600K P=0.76W I=250mA



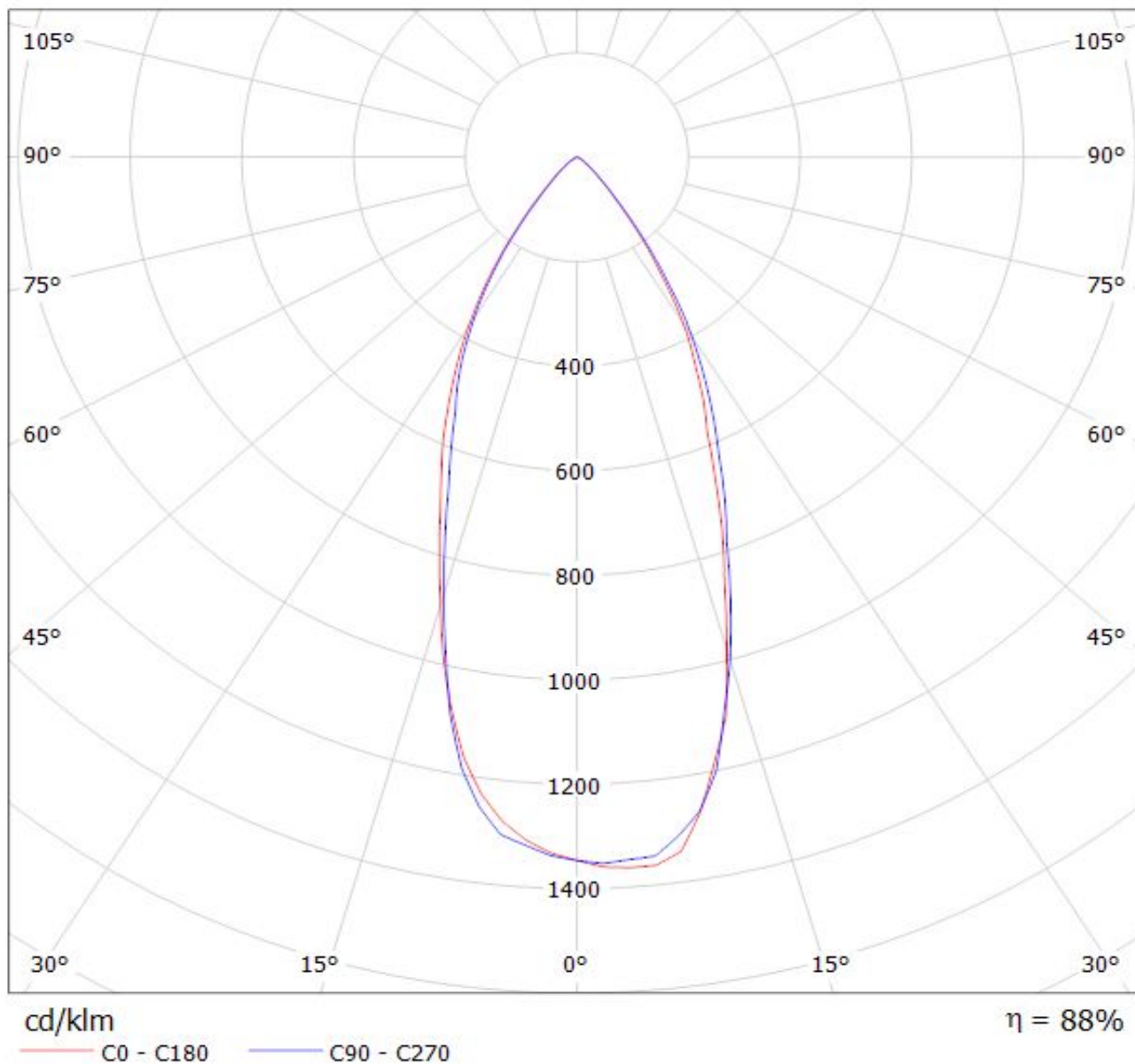
cd/klm

$\eta = 89\%$

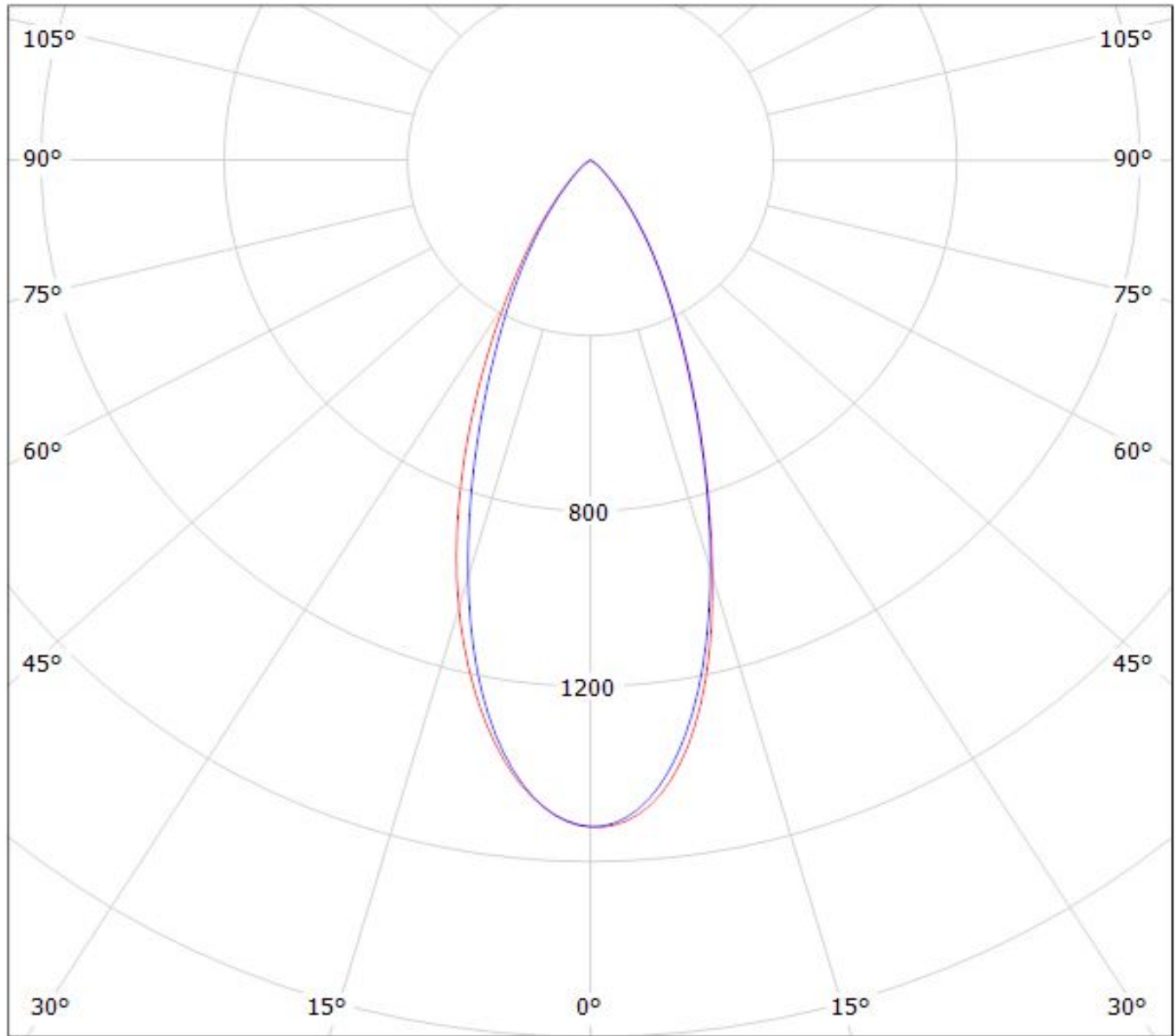
— C0 - C180

— C90 - C270

Luminaire: Ledil Oy FP13026&FP13029\_LISA2-WW\_PIN&CLIP (XP-E2) Eff. 88%  
Lamps: 1 x Cree XP-E2 cool white 92lm@250mA CCT=5600K P=0.75W I=250mA



Luminaire: Ledil Oy  
Lamps: 1 x



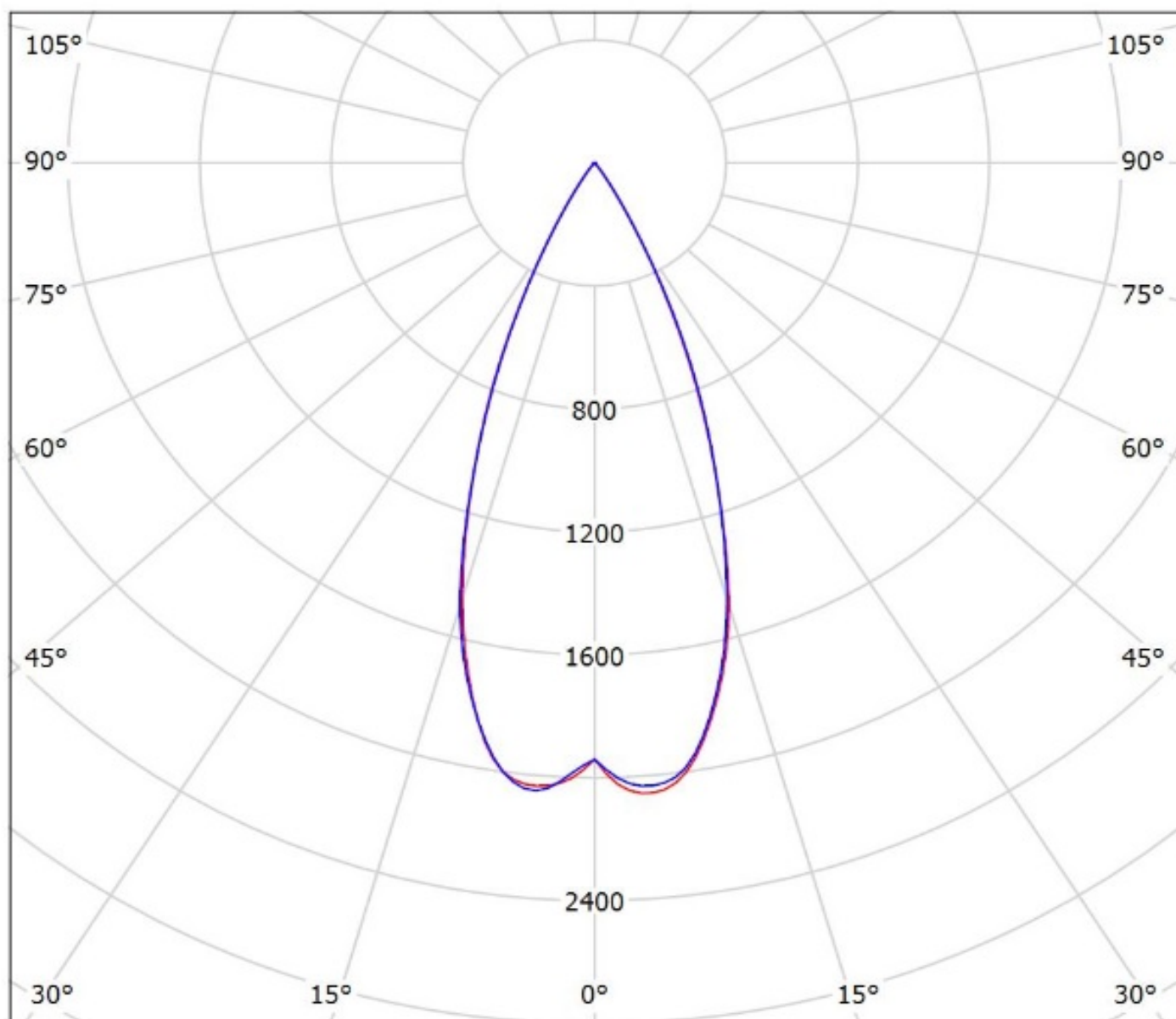
cd/klm

— C0 - C180    — C90 - C270

$\eta = 84\%$

Luminaire: Ledil Oy FP13026\_LISA2-WW-PIN\_(Luxeon\_TX)\_SIMULATED

Lamps: 1 x Lumileds Luxeon TX

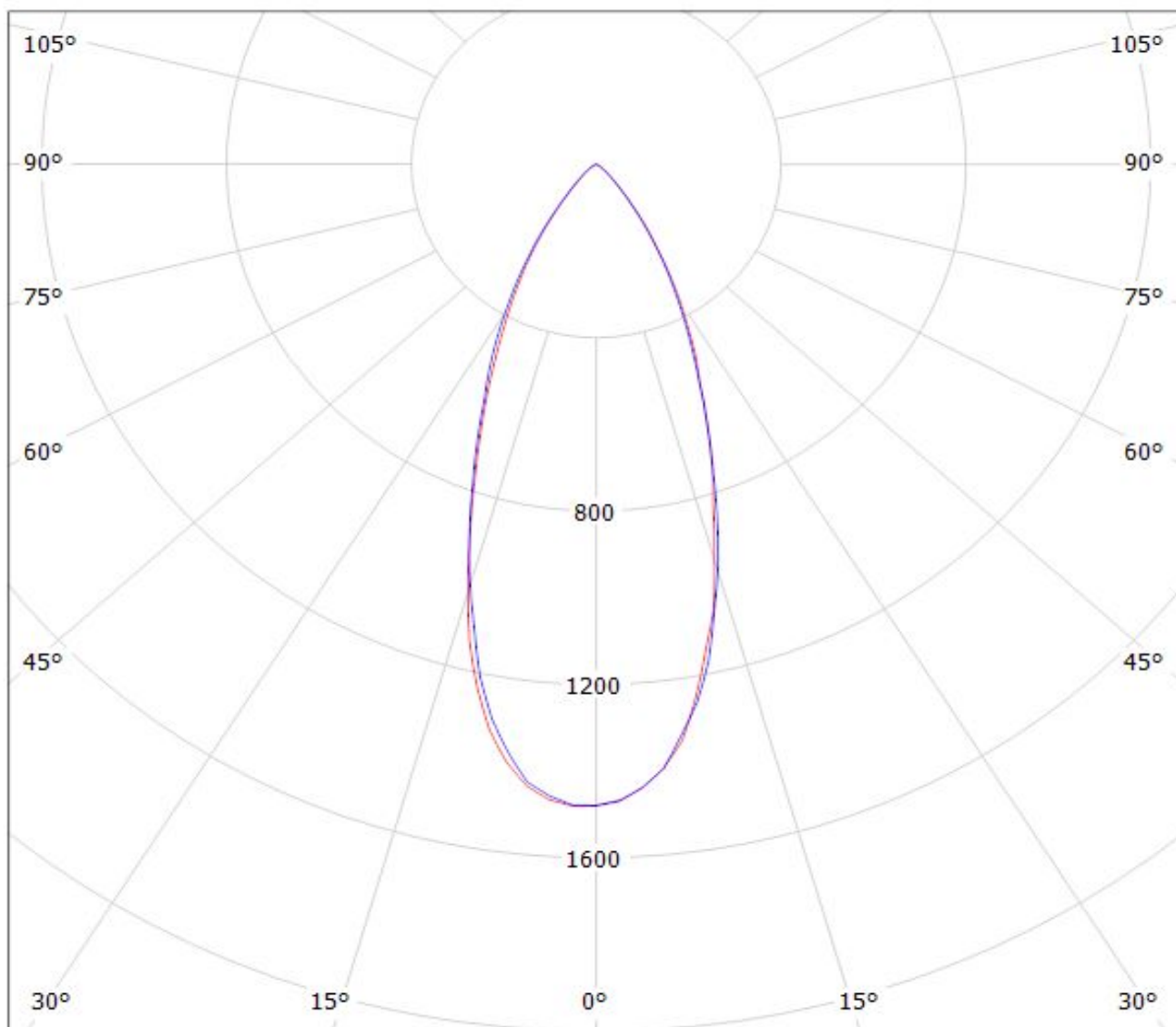


cd/klm

— C0 - C180 — C90 - C270

$\eta = 95\%$

Luminaire: Ledil Oy FP13026&FP13029\_LISA2-WW-PIN\_(NCSxx19B) Eff. 86%  
Lamps: 1 x Nichia NCSxx19B (NCSL119BE) 88lm @ 250mA CCT=3000K P=0.8W I=250mA



cd/klm

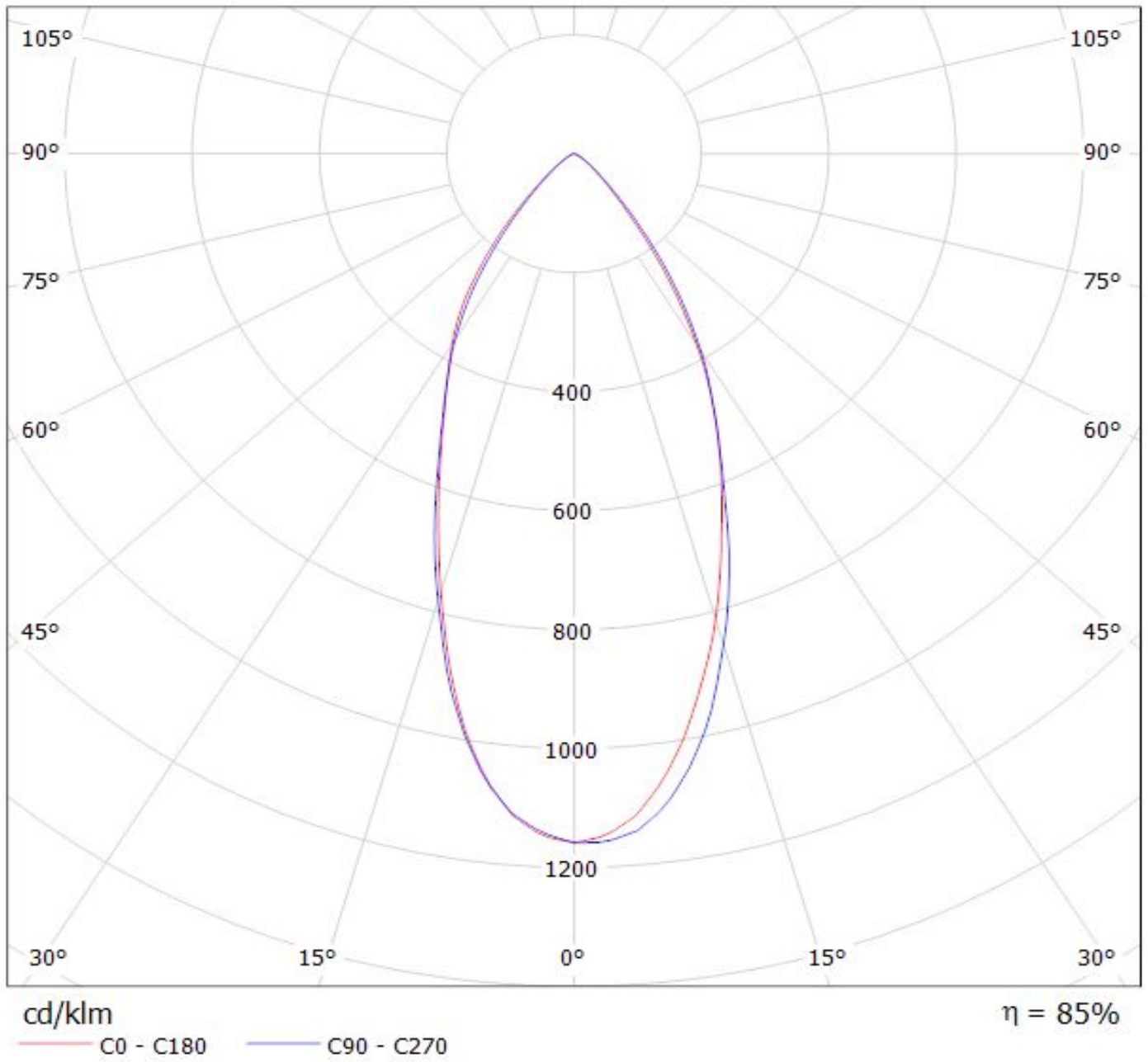
— C0 - C180

— C90 - C270

$\eta = 87\%$

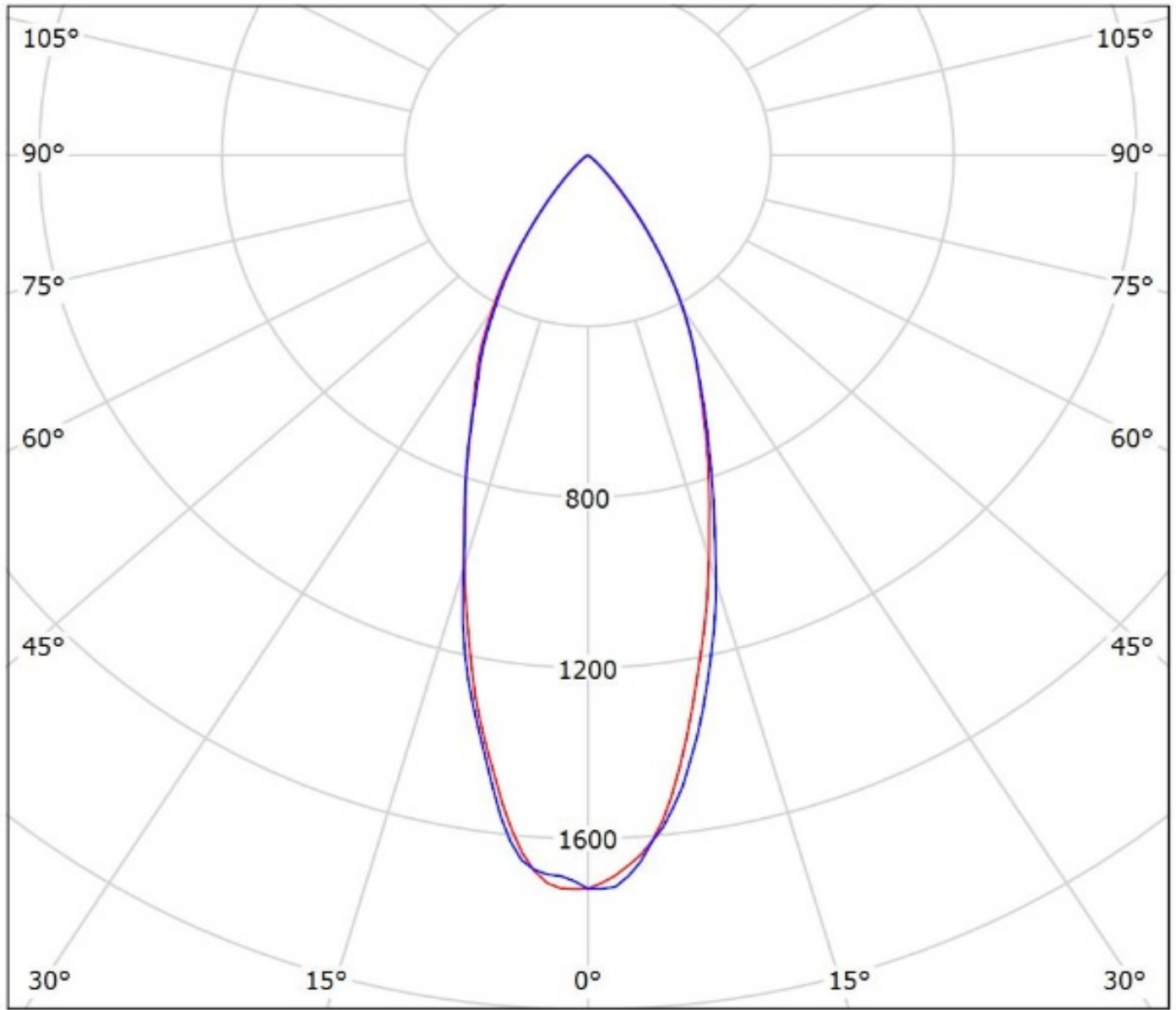


Luminaire: LEDiL Oy  
Lamps: 1 x FP13026\_LISA2-WW-PIN\_(SQ)





Luminaire: Ledil Oy FP13026\_LISA2-WW-PIN\_(SFH\_4715AS)\_SIMULATED  
Lamps: 1 x Osram SFH 4715AS with changed wavelength to 550 nm

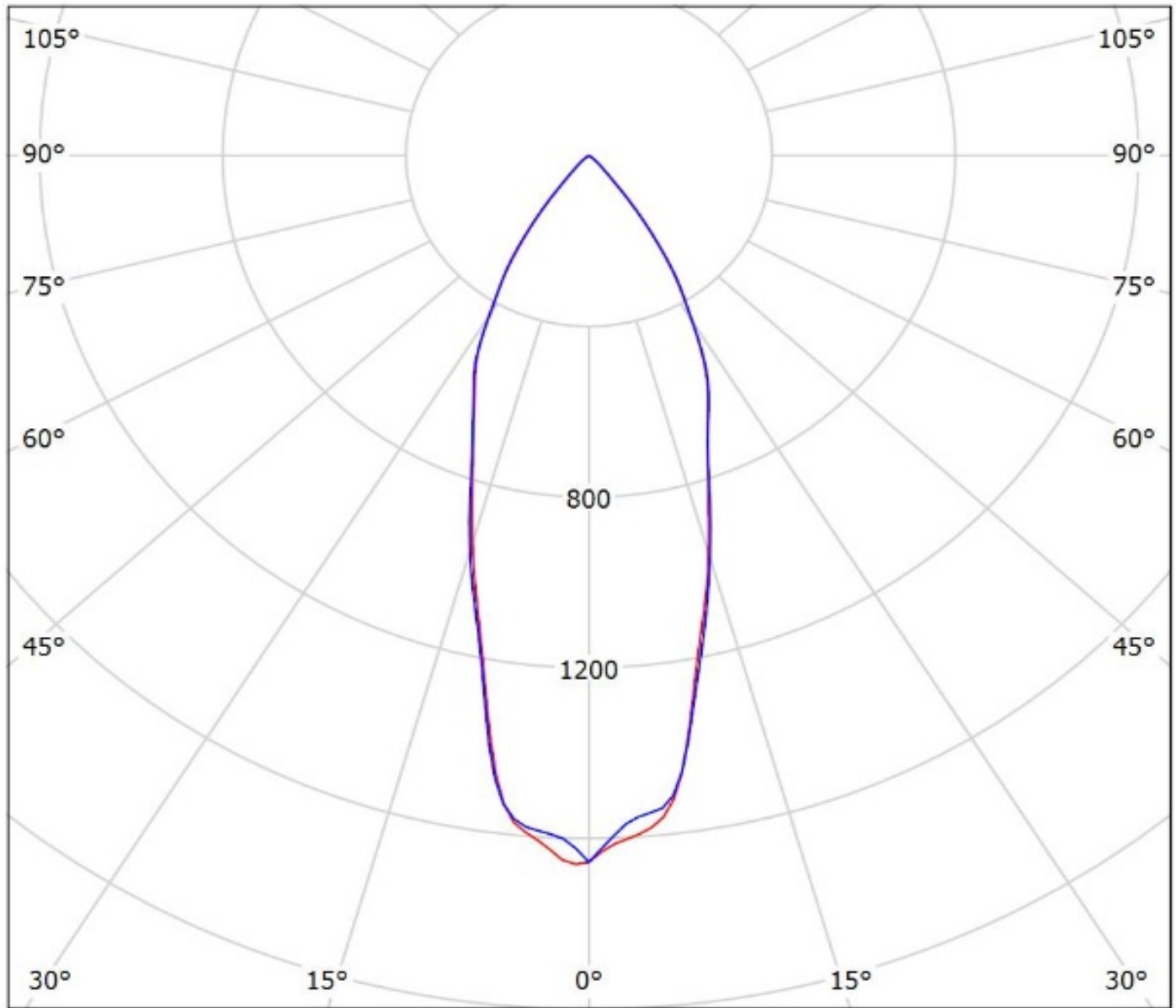


cd/klm

— C0 - C180 — C90 - C270

$\eta = 92\%$

Luminaire: Ledil Oy FP13026\_LISA2-WW-PIN\_(Oslon\_Black)\_SIMULATED  
Lamps: 1 x Osram Oslon Black - LCW H9GP

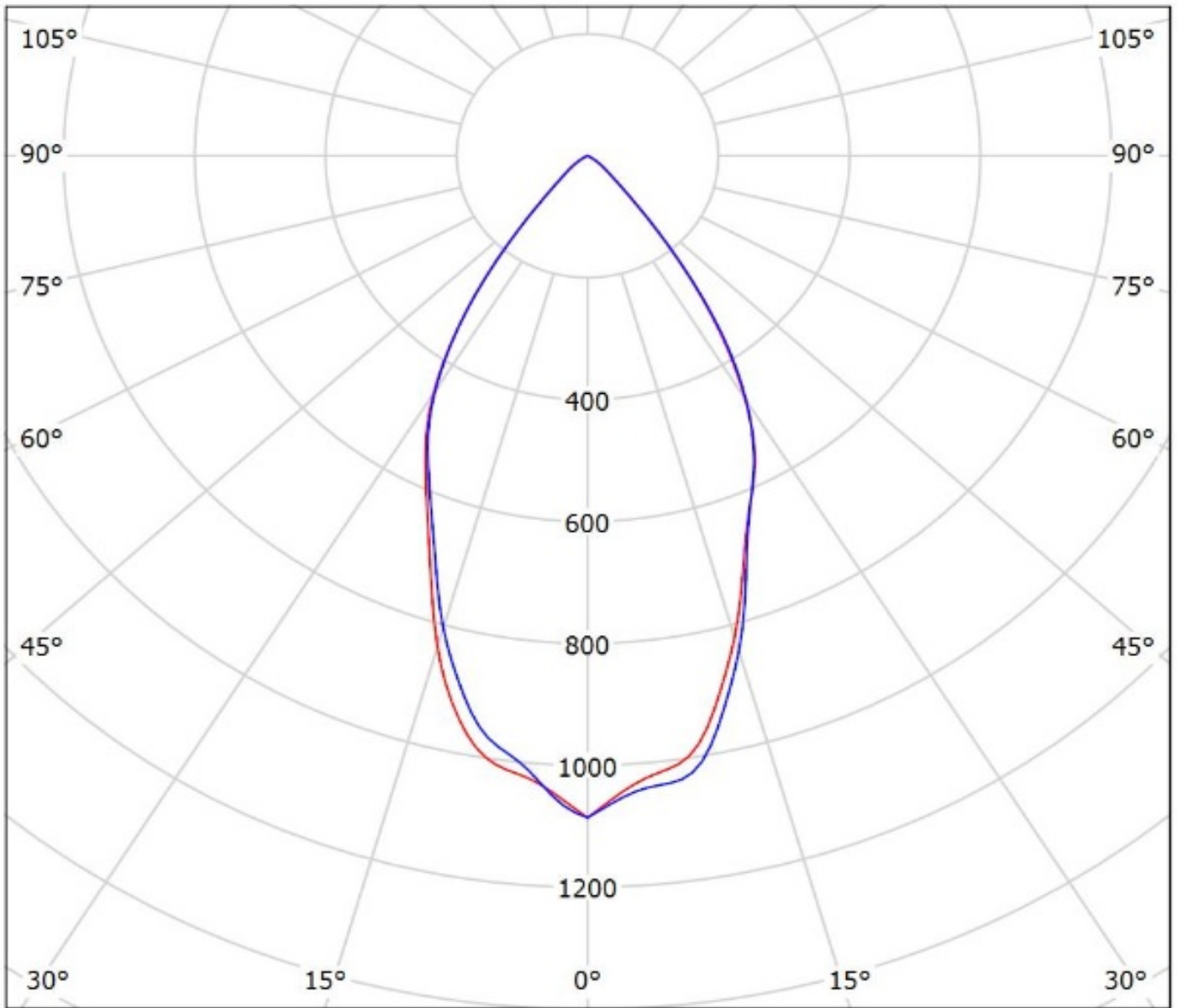


cd/klm

— C0 - C180 — C90 - C270

$\eta = 93\%$

Luminaire: Ledil Oy FP13026\_LISA2-WW-PIN\_(Oslon\_SSL\_80)\_SIMULATED  
Lamps: 1 x Osram Oslon SSL 80 - GW CS8PM1.PM



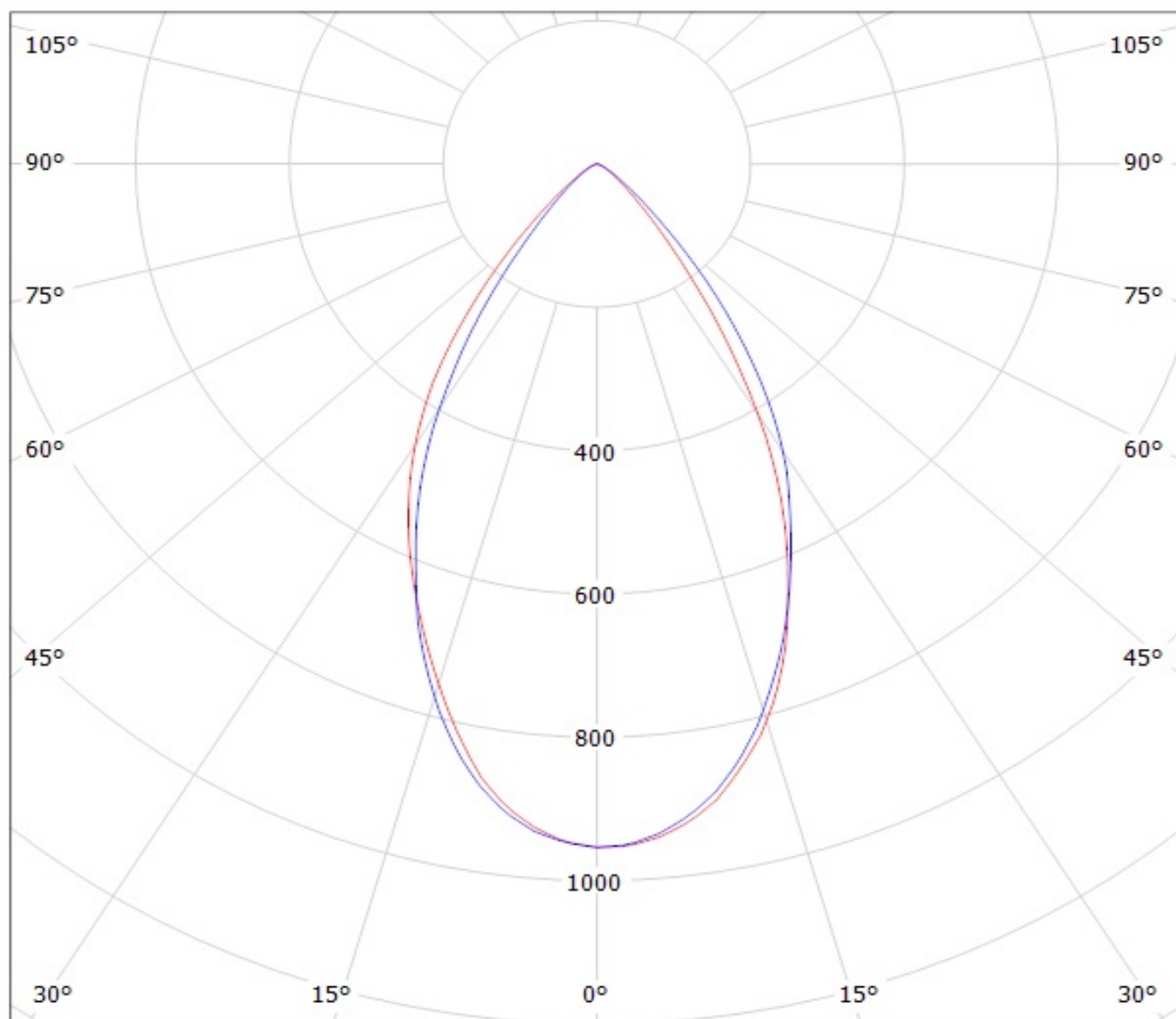
cd/klm

— C0 - C180 — C90 - C270

$\eta = 91\%$

Luminaire: LEDil Oy FP13026\_LISA2-WW-PIN\_(LH351Z)

Lamps: 1 x Samsung LH351Z (90.14lm @ 250mA) CCT=6500K P=0.7W I=250mA



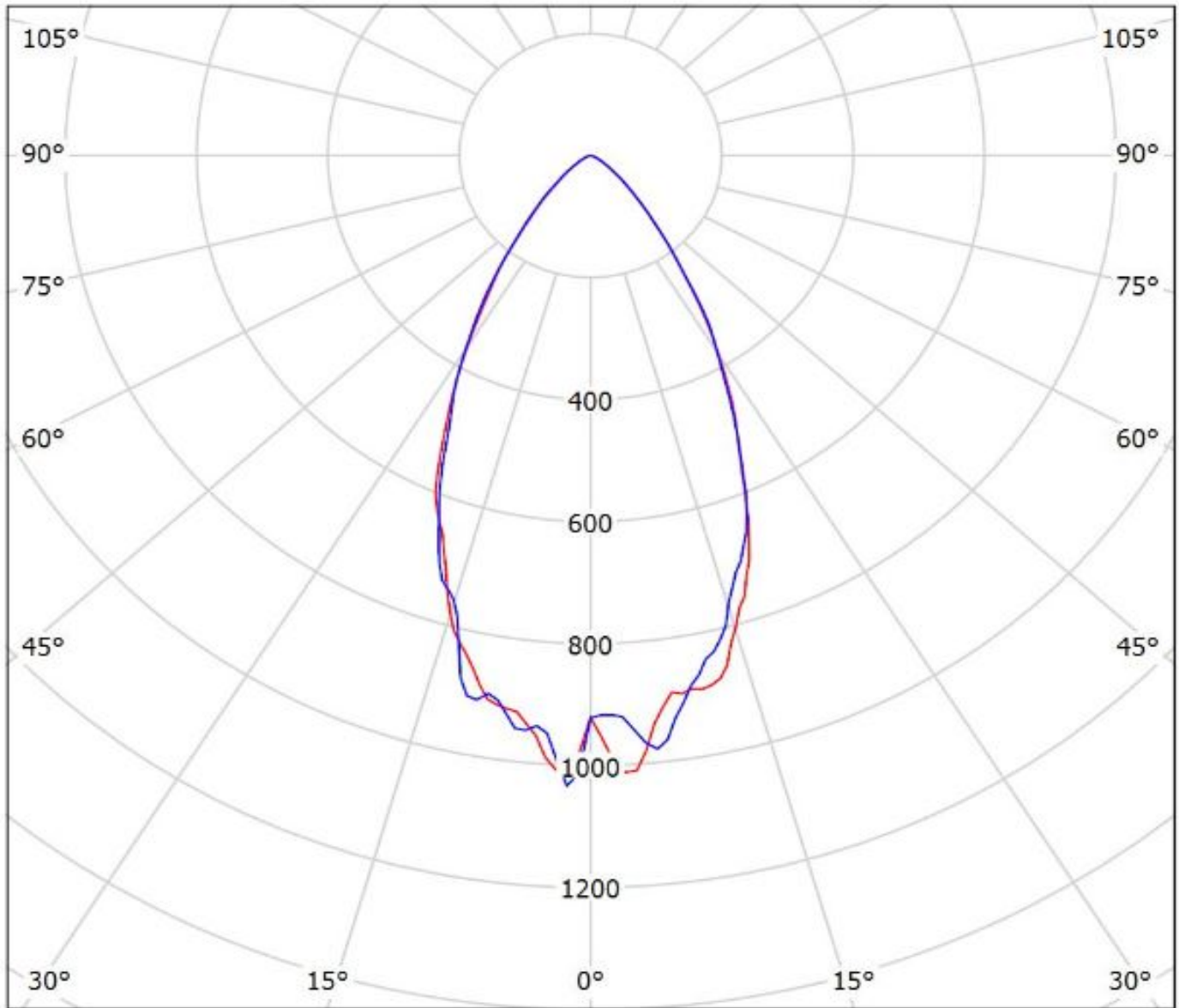
cd/klm

$\eta = 90\%$

— C0 - C180

— C90 - C270

Luminaire: Ledil Oy FP13026\_LISA2-WW-PIN\_Seoul\_Z8Y22P\_SIMULATED  
Lamps: 1 x Seoul Z8Y22P



cd/klm

— C0 - C180 — C90 - C270

$\eta = 86\%$

**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.**