

## DETAILS

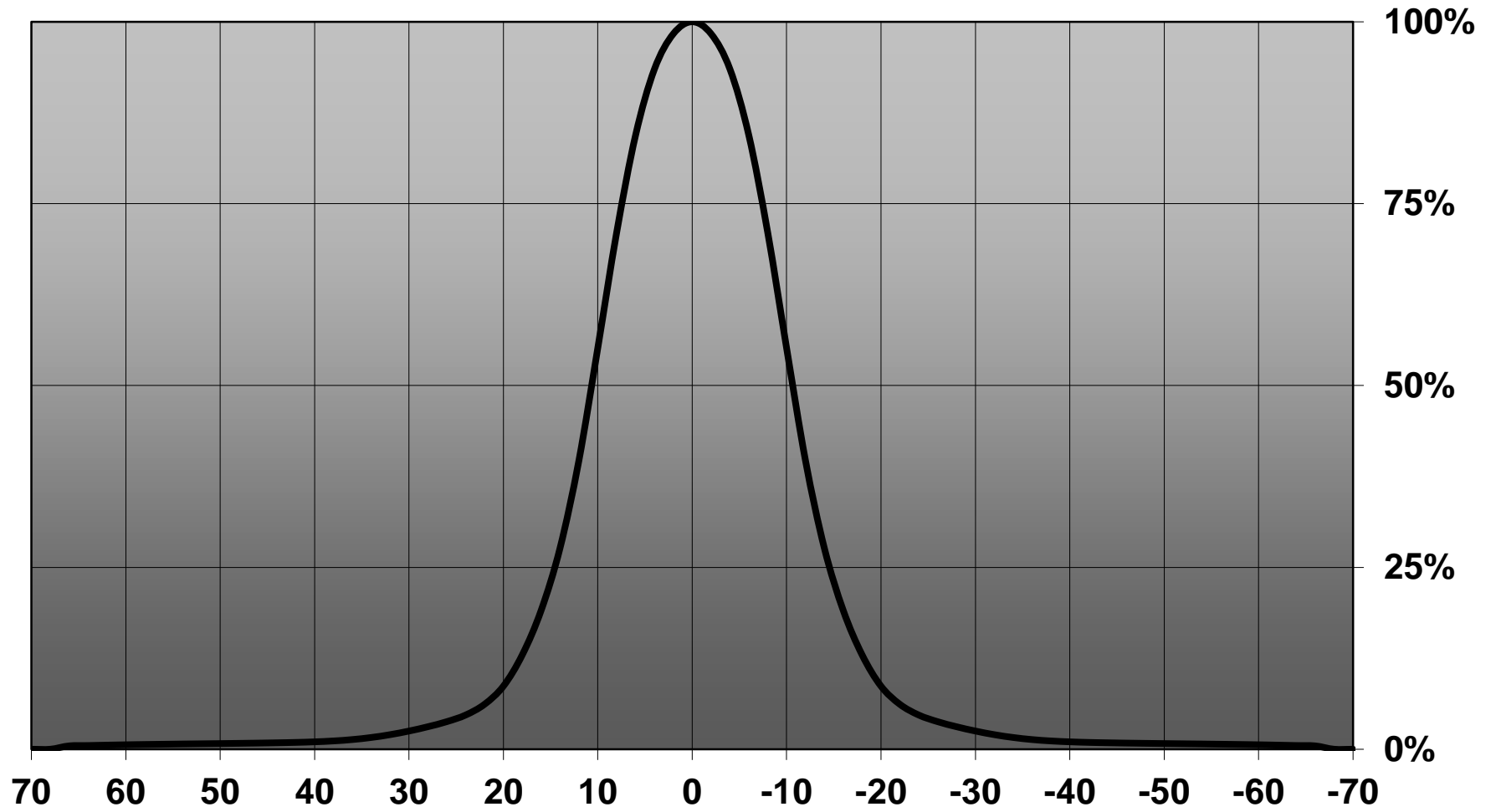
<b>Product Number</b>	FP13031_LISA2-W-CLIP
<b>Family</b>	Lisa
<b>Type</b>	Assembly
<b>Color</b>	black
<b>Diameter</b>	9,9 mm
<b>Height</b>	6,8 mm
<b>Style</b>	round
<b>Optic Material</b>	PMMA
<b>Holder Material</b>	
<b>Fastening</b>	glue, clips
<b>Status</b>	production ready
<b>ROHS Compliant</b>	Yes
<b>Date Updated</b>	14/04/2016



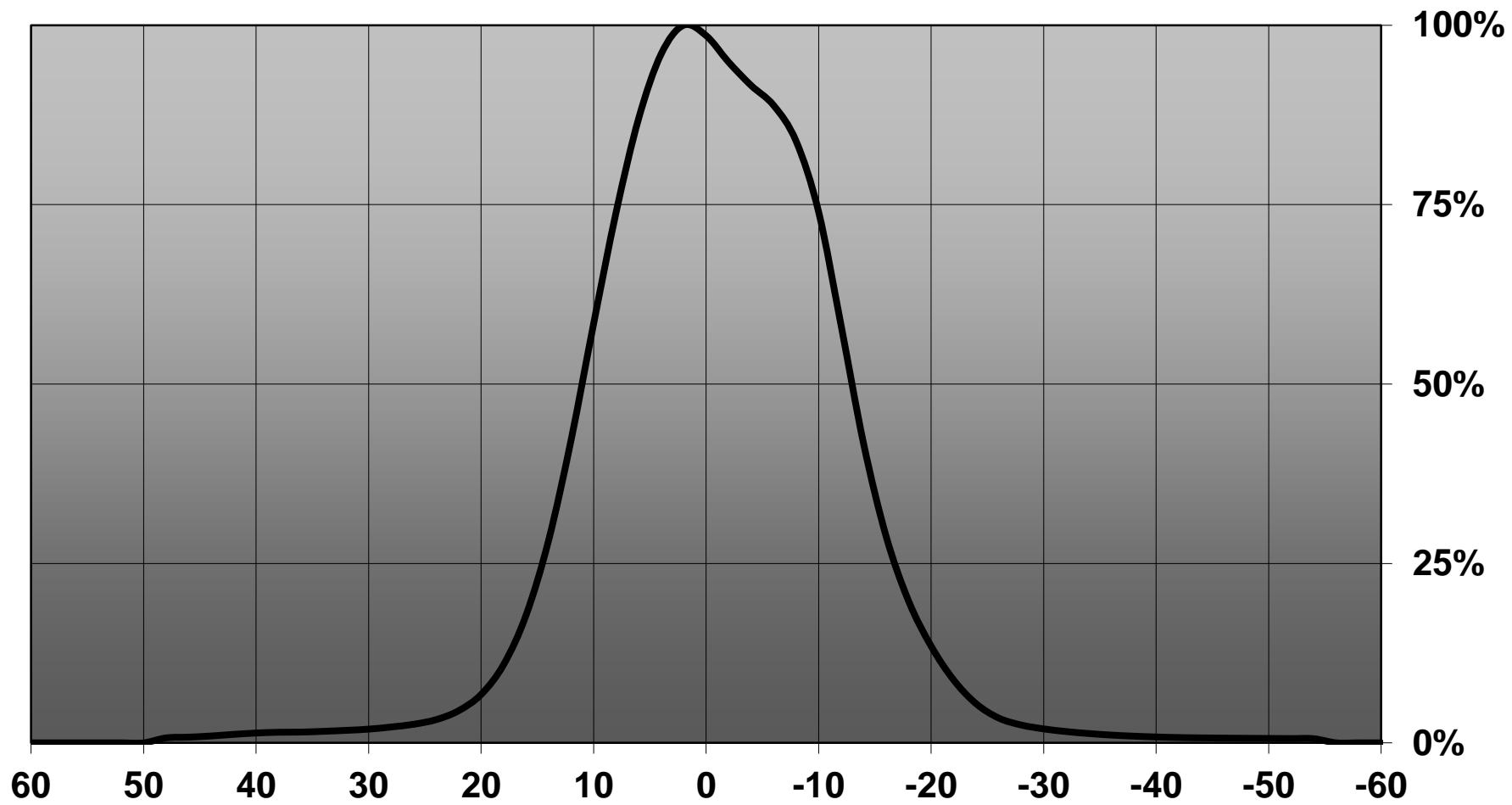
## OPTICAL PROPERTIES

LED	Viewing	Light	Effi-		Connector
	Angle	Beam	ciency	cd/lm	
XT-E	32 deg	Wide	84 %	2.200	-
XP-G2	36 deg	Wide	88 %	2.200	-
XP-G3	41 deg	Wide	85 %	1.680	-
H35C1 (LEMWA33)	40 deg	Wide	88 %	2.000	-
LUXEON T	36 deg	Wide	86 %	2.000	-
LUXEON H50-2	sim: 30	Wide	sim: 89 %	sim: 2.800	-
LUXEON TX	34 deg	Wide	88 %	2.500	-
NCSxx19B	34 deg	Wide	84 %	2.600	-
NVSxx19B/NVSxx19C	38 deg	Wide	87 %	1.900	-
SFH 4715S	22 deg	Wide	-	-	-
SFH 4725S	24 deg	Wide	-	-	-
Oslon Square EC	33 deg	Wide	85 %	2.400	-
LH351Z	38 deg	Wide	88 %	2.100	-
LH351B	40 deg	Wide	88 %	1.920	-
Z8Y22P	sim: 38	Wide	sim: 84 %	sim: 1.590	-

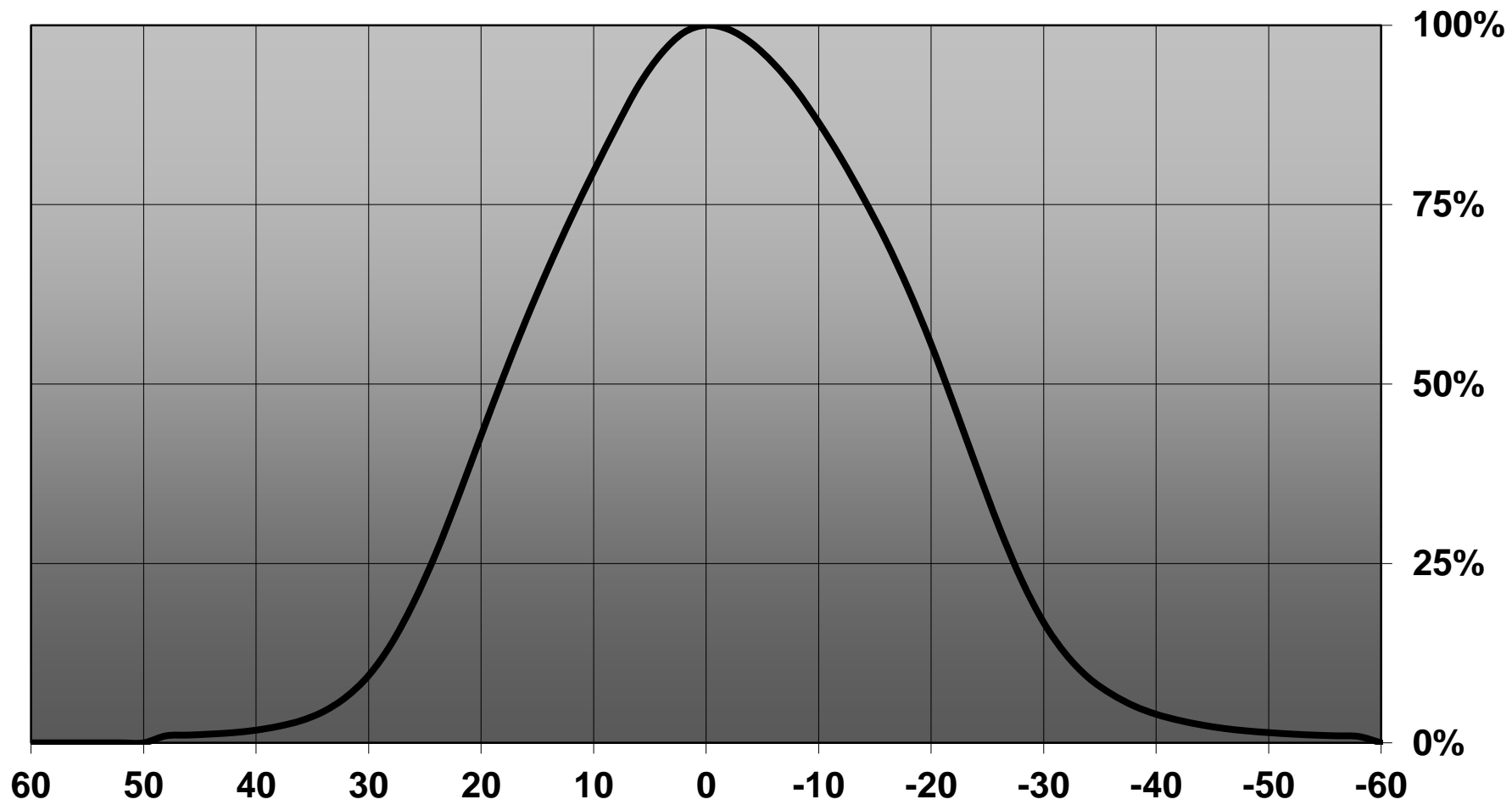
Relative intensity of FP13031&FP13025\_LISA2-W-SFH\_IR



Relative intensity of FP13031\_LISA2-W-CLIP\_(SFH4725S)

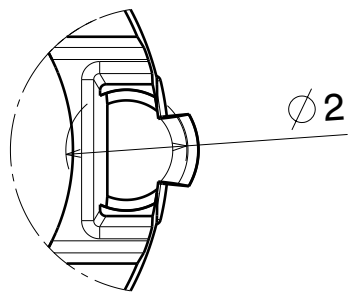


Relative intensity of FP13031\_LISA2-W-CLIP\_(LH351B)

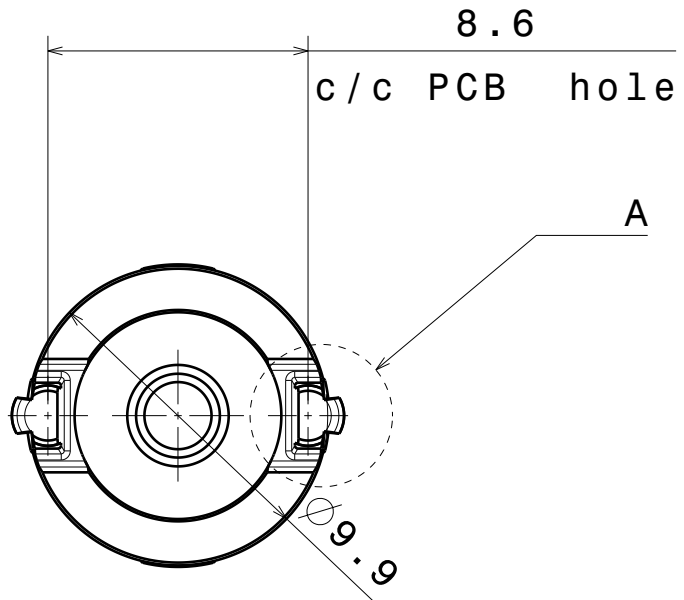


D C B A

4



Detail A  
Scale: 8:1



Bottom view  
Scale: 4:1

Lens

Holder

1.6  
PCB

Ø2

6.81

1.76

Front view  
Scale: 4:1

3

2

Materials:  
Lens PMMA  
Holder PC

Note:  
Take tolerances  
into account  
when specifying  
holes for PCB

4

3

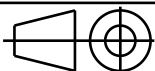
2

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

Datasheet Lisa2-clip16-XT series Assy

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of LEDiL Oy. It may not be  
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agreement with LEDiL Oy.

SIZE PART NUMBER

A4

SCALE 4:1 WEIGHT -

SHEET 1/1

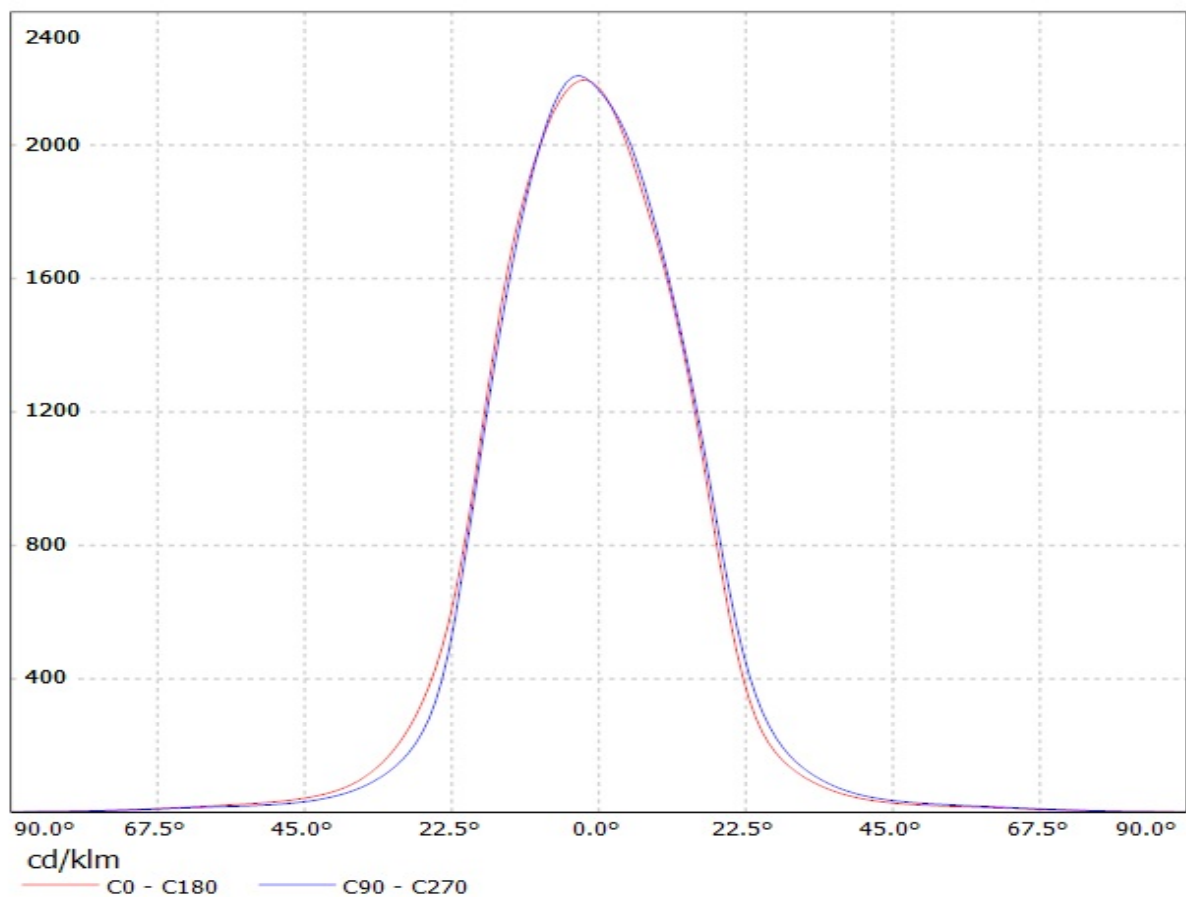
1

1

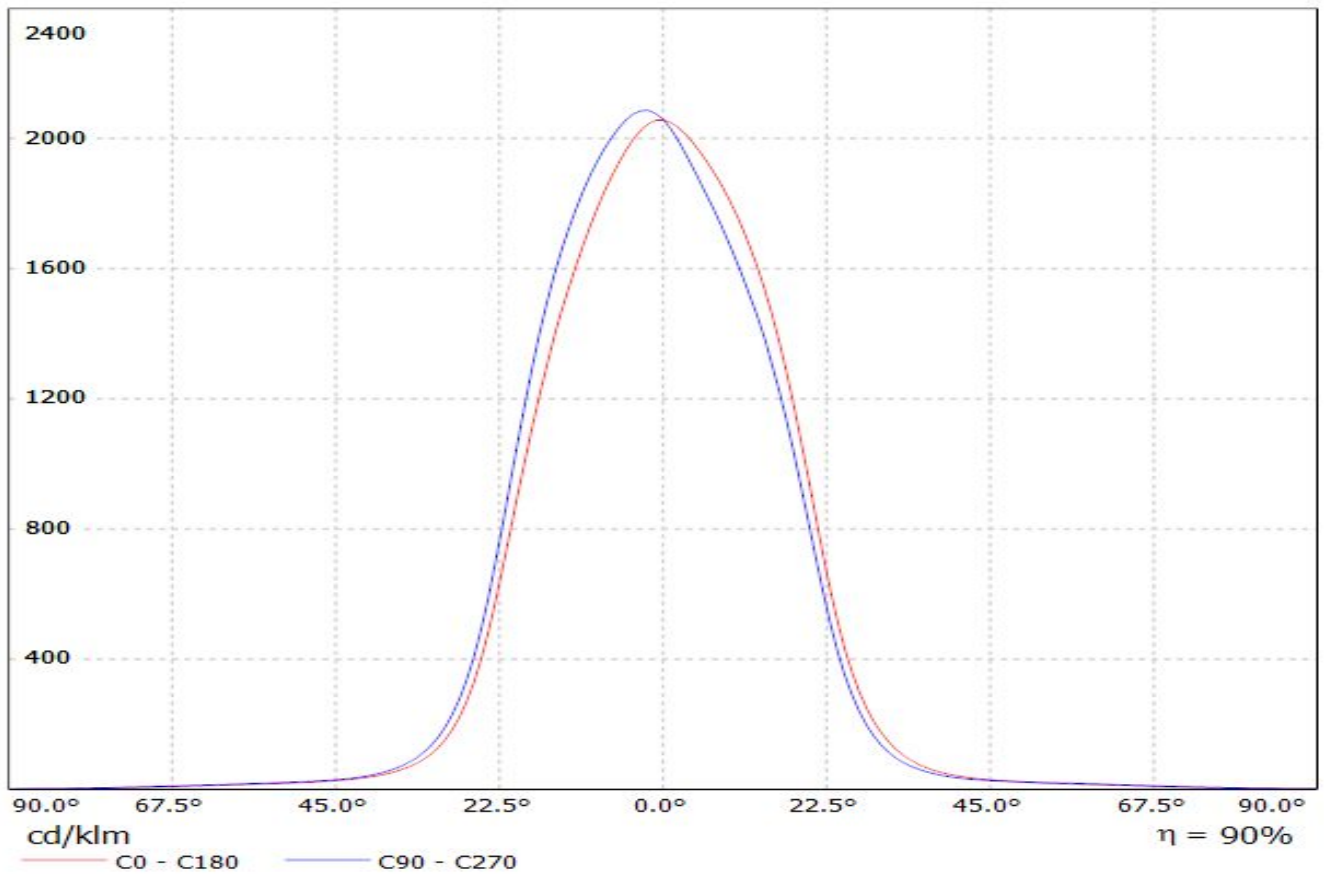
D

A

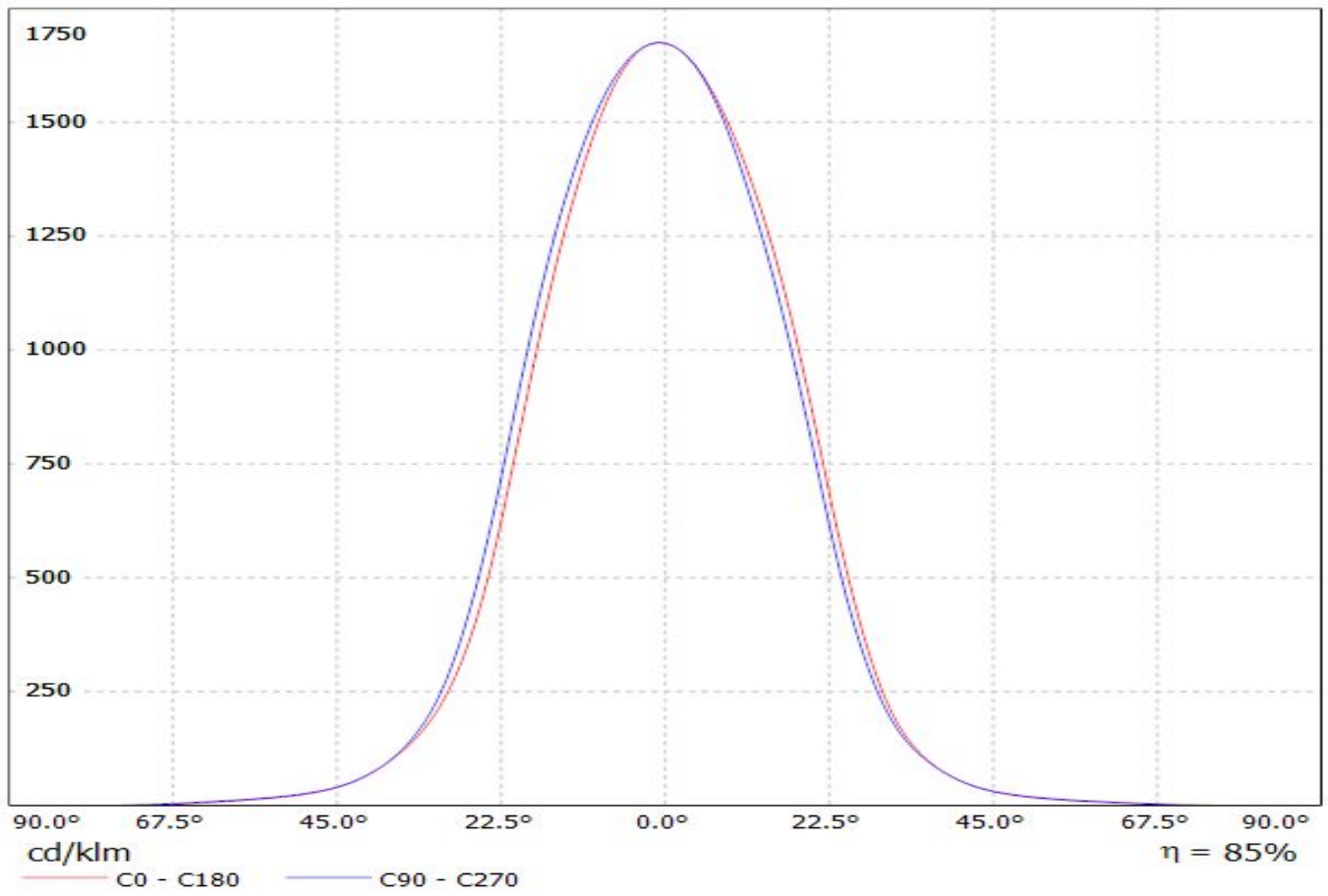
Luminaire: LEDIL OY FP13025\_LISA2-W-PIN & FP13031\_LISA2-W-CLIP-XTE (Cree XT-E 98lm @ 250mA) Efficiency=84%  
Lamps: 1 x CREE XT-E (98.9lm)



Luminaire: LEDiL Oy FP13025&FP13031\_LISA2-W\_(PIN&CLIP)\_ (XP-G2) Eff.88%  
Lamps: 1 x Cree\_(XP-G2) 104lm@250mA CCT=6600K P=0.76W I=250mA

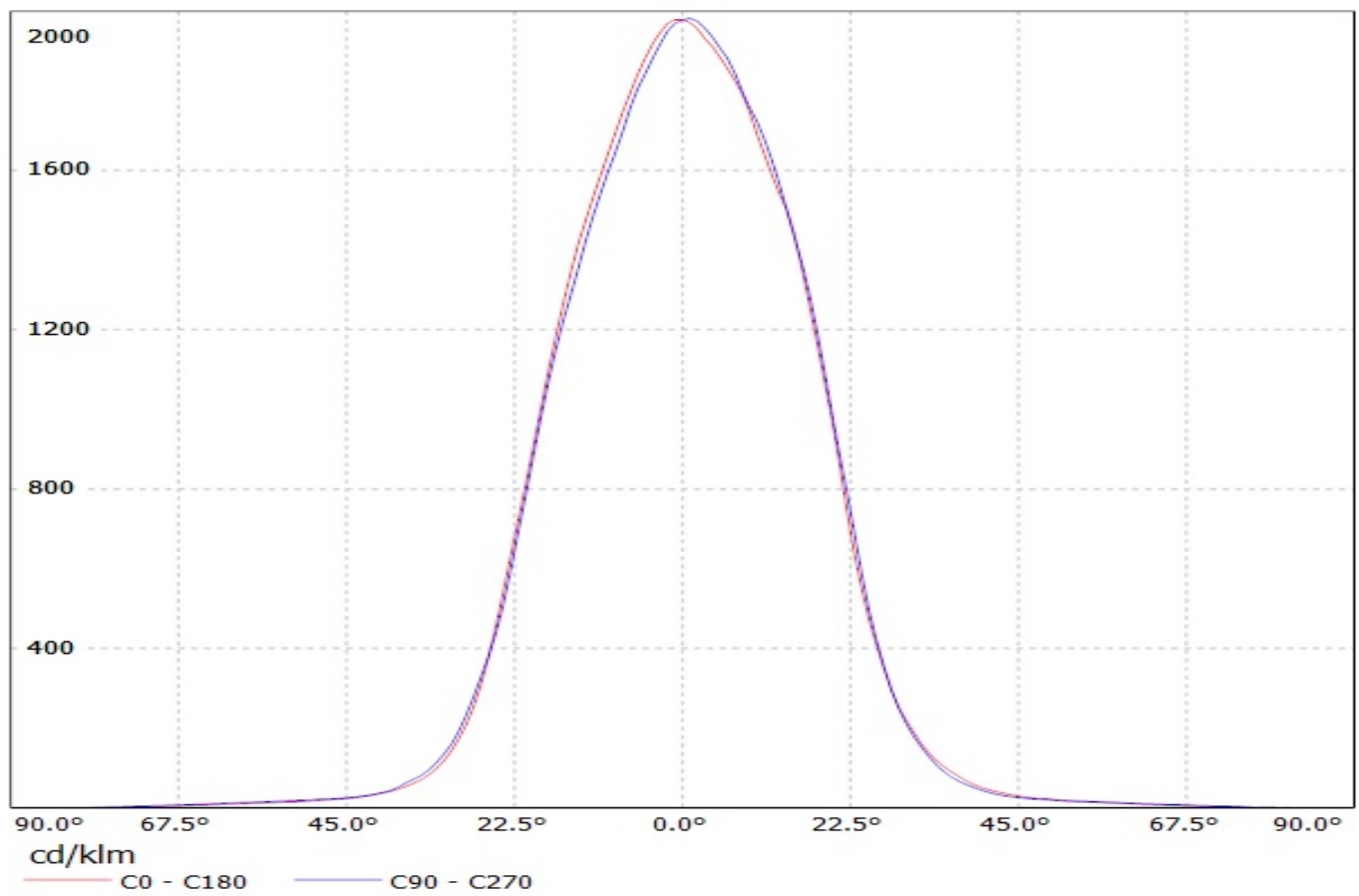


Luminaire: Ledil Oy  
Lamps: 1 x

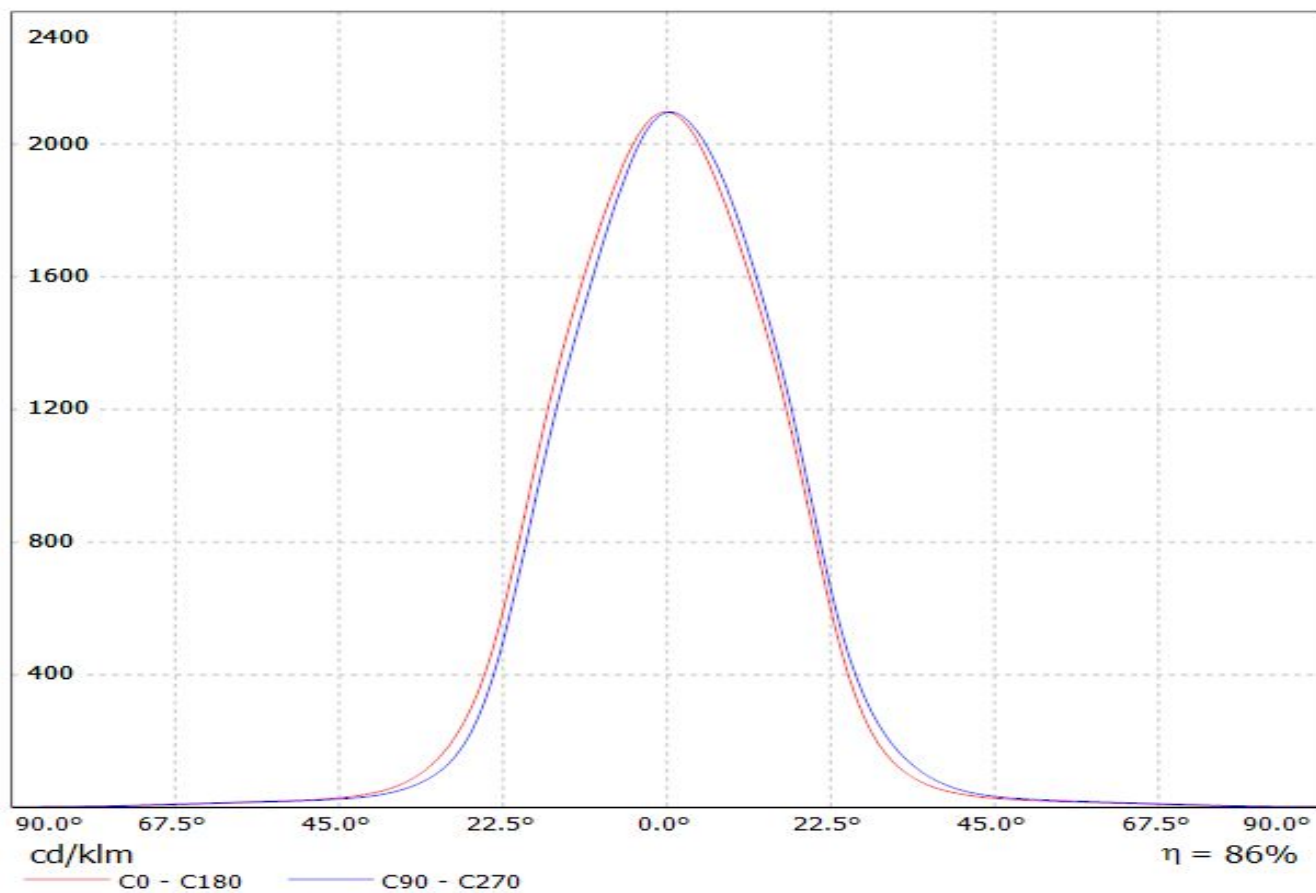




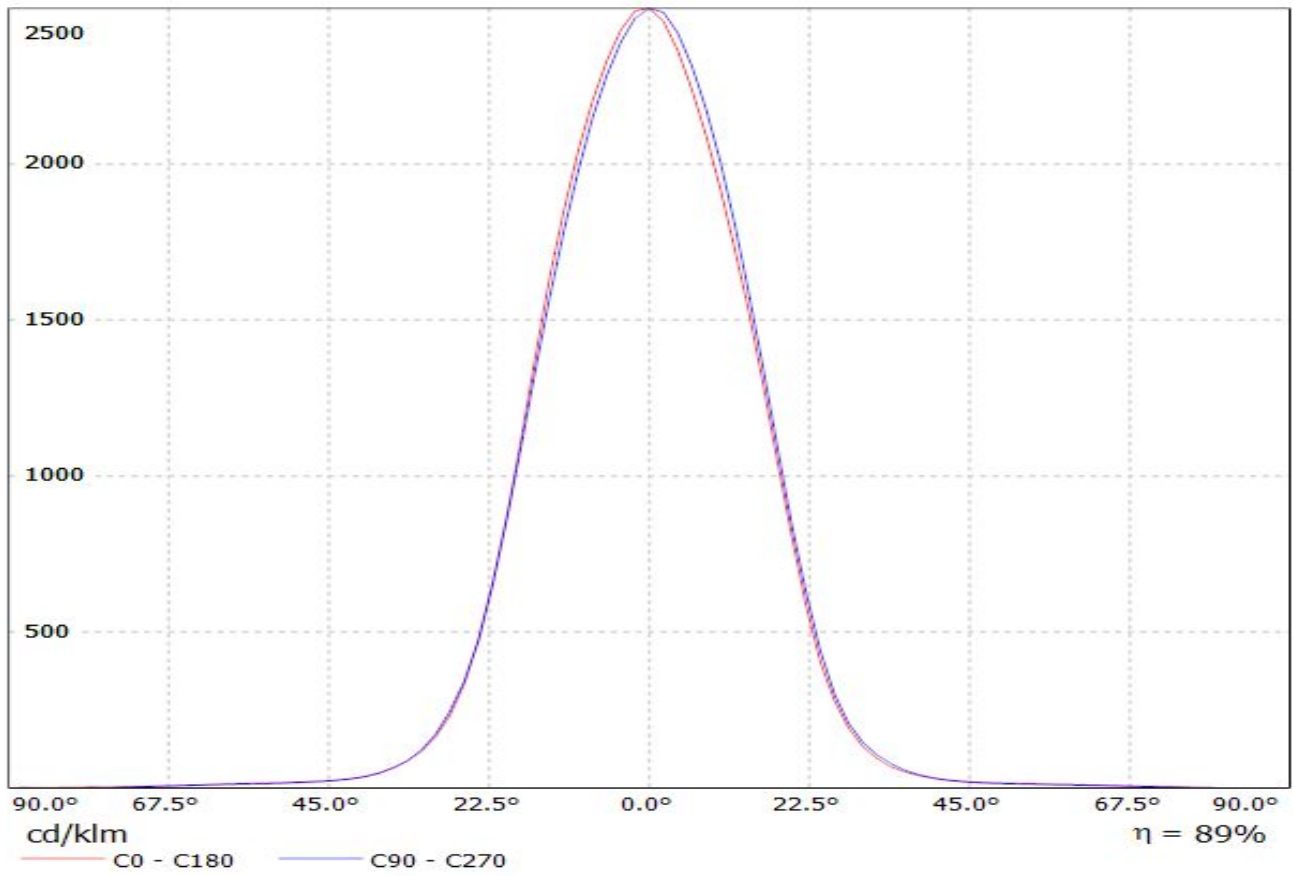
Luminaire: Ledil Oy FP13031\_LISA2-W-CLIP\_(3535\_Ceramic\_gen2) Efficiency=88%  
Lamps: 1 x LG 3535 Ceramic gen2 (PKG5700K) 116lm @ 250mA CCT=6200K P=0.7W I=250mA



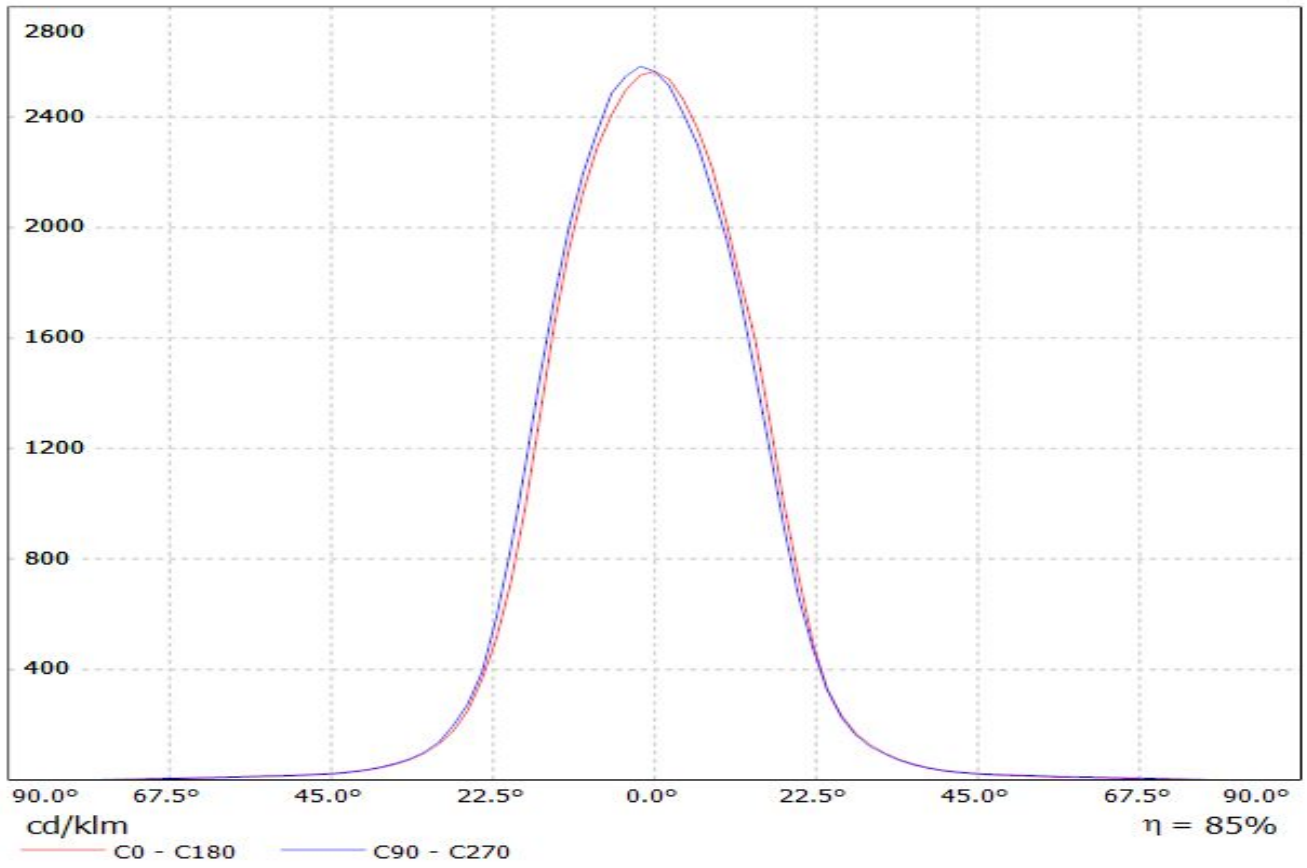
Luminaire: LEDiL Oy FP13031 & FP13025\_LISA2-W\_(CLIP/PIN) Eff.86.1%  
Lamps: 1 x LUXEON\_T (74lm@250mA)



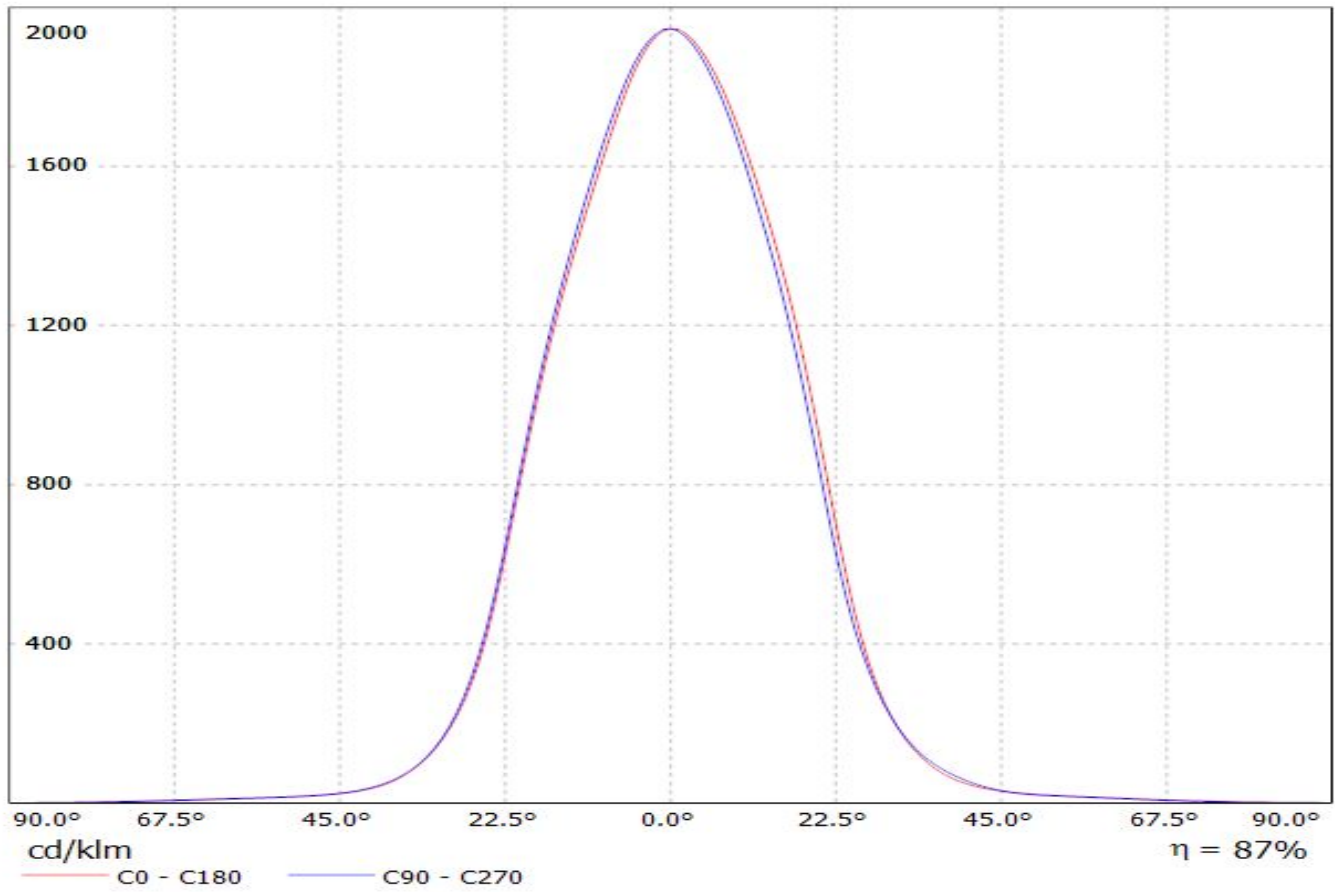
Luminaire: Ledil Oy FP13031\_LISA2-W-CLIP (Luxeon\_TX) Efficiency=88%  
Lamps: 1 x Luxeon TX (L1T2-3585) 82lm @ 250mA CCT= P=0.73W I=250mA



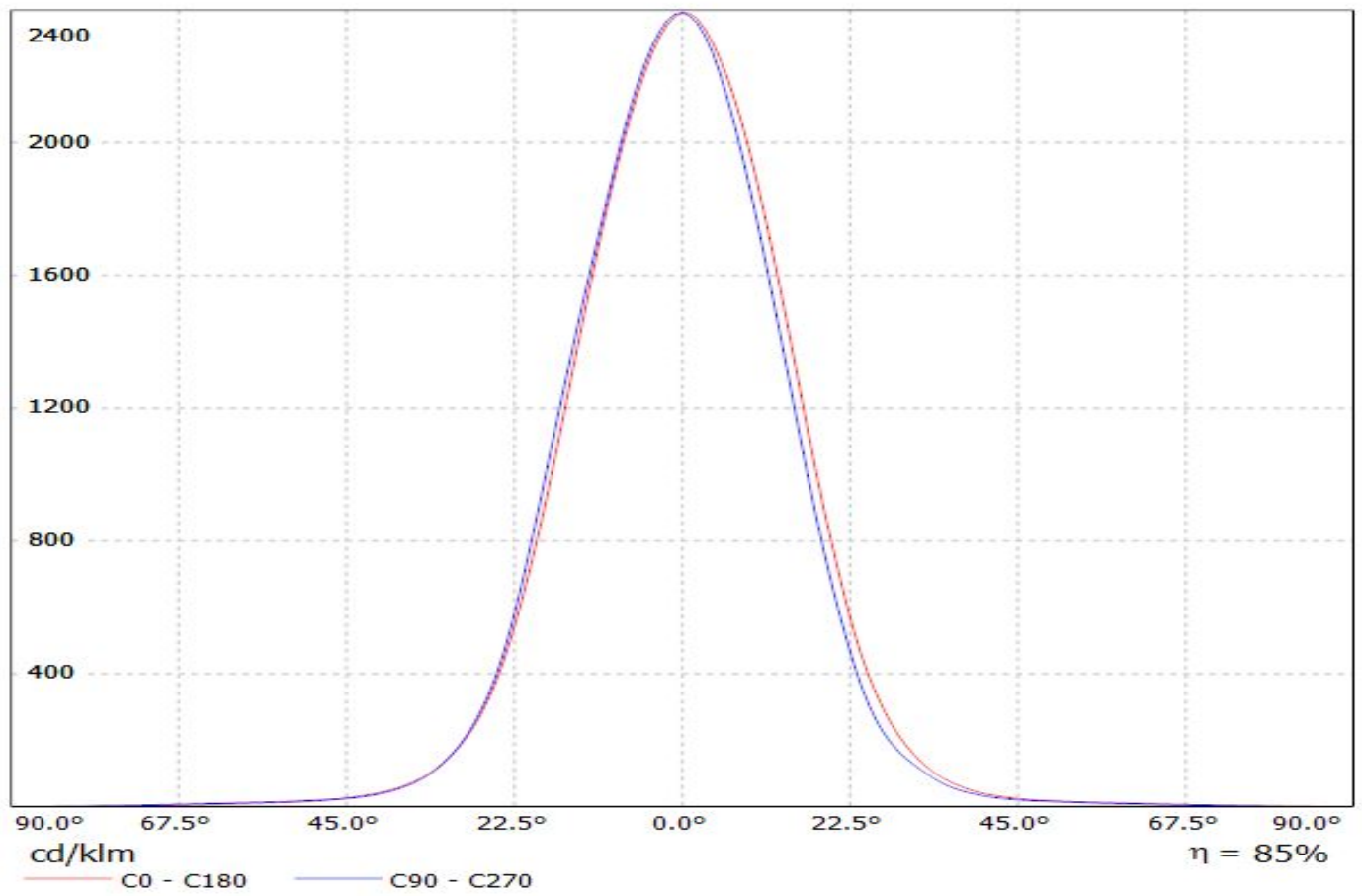
Luminaire: Ledil Oy FP13025&FP13031\_LISA2-W Eff. 84%  
Lamps: 1 x Nichia NCSxx19B (NCSL119BE) 88lm @ 250mA CCT=3000K P=0.8W I=250mA



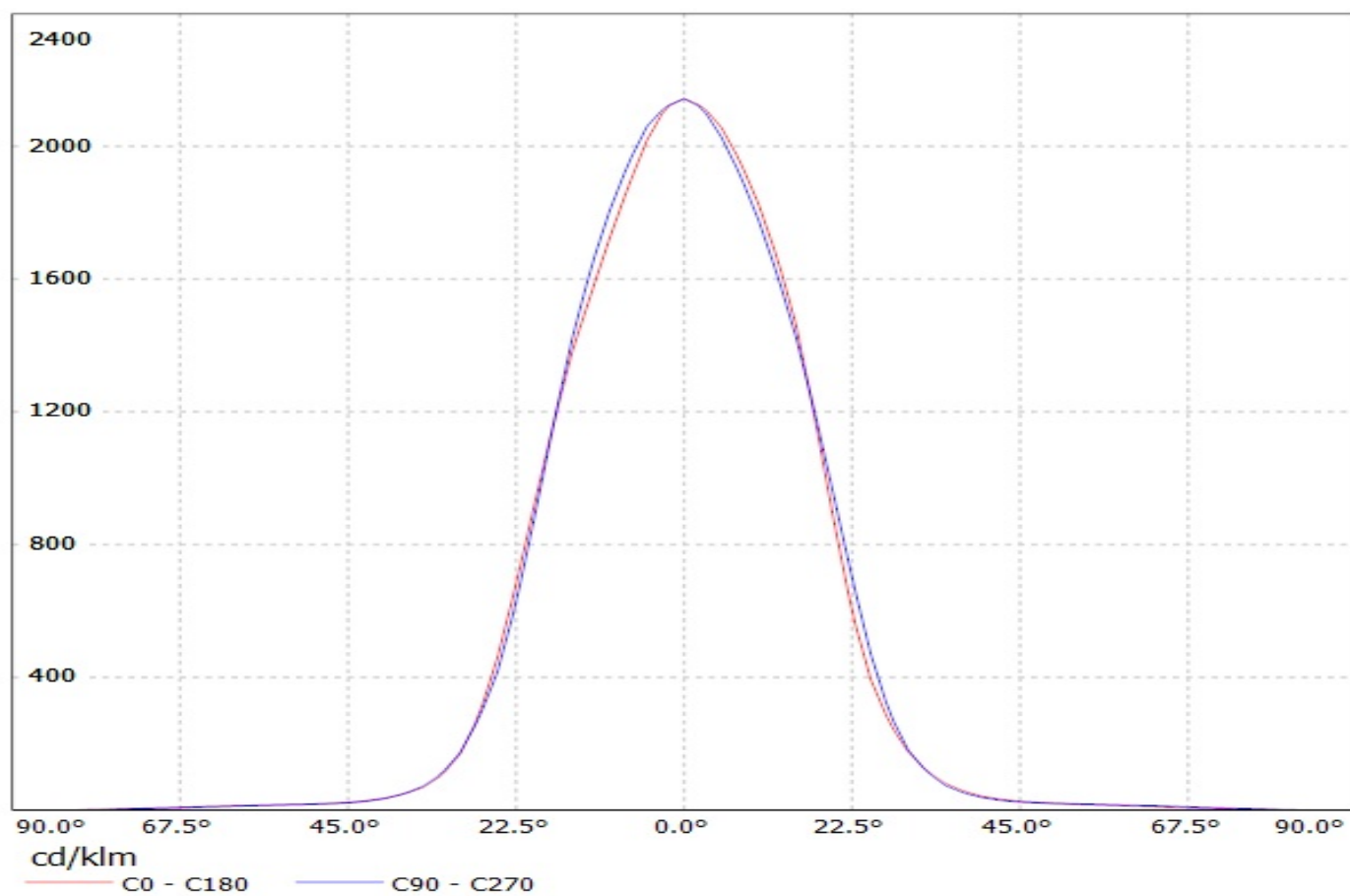
Luminaire: LEDiL Oy FP13031\_LISA2-W-CLIP\_(NVSL219CE)  
Lamps: 1 x Nichia\_NVSL219CE\_101.052lm@250mA\_P=0.713154W\_I=0.25A



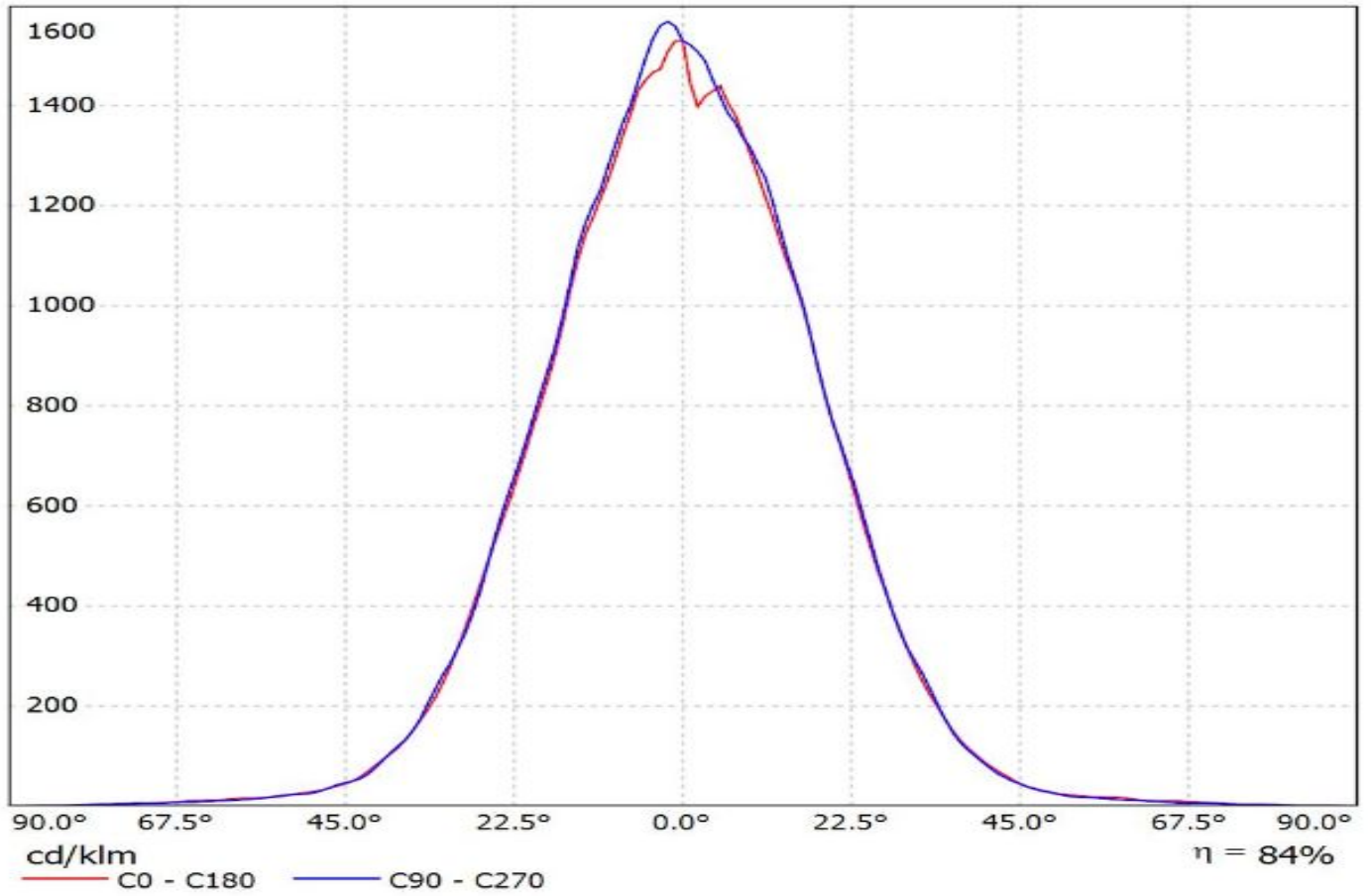
Luminaire: LEDiL Oy  
Lamps: 1 x FP13031\_LISA2-W-PIN\_(SQ)



Luminaire: Ledil Oy FP13031\_LISA2-W-CLIP\_(LH351Z) Efficiency=88%  
Lamps: 1 x Samsung LH351Z (90.14lm @ 250mA) CCT=6500K P=0.7W I=250mA

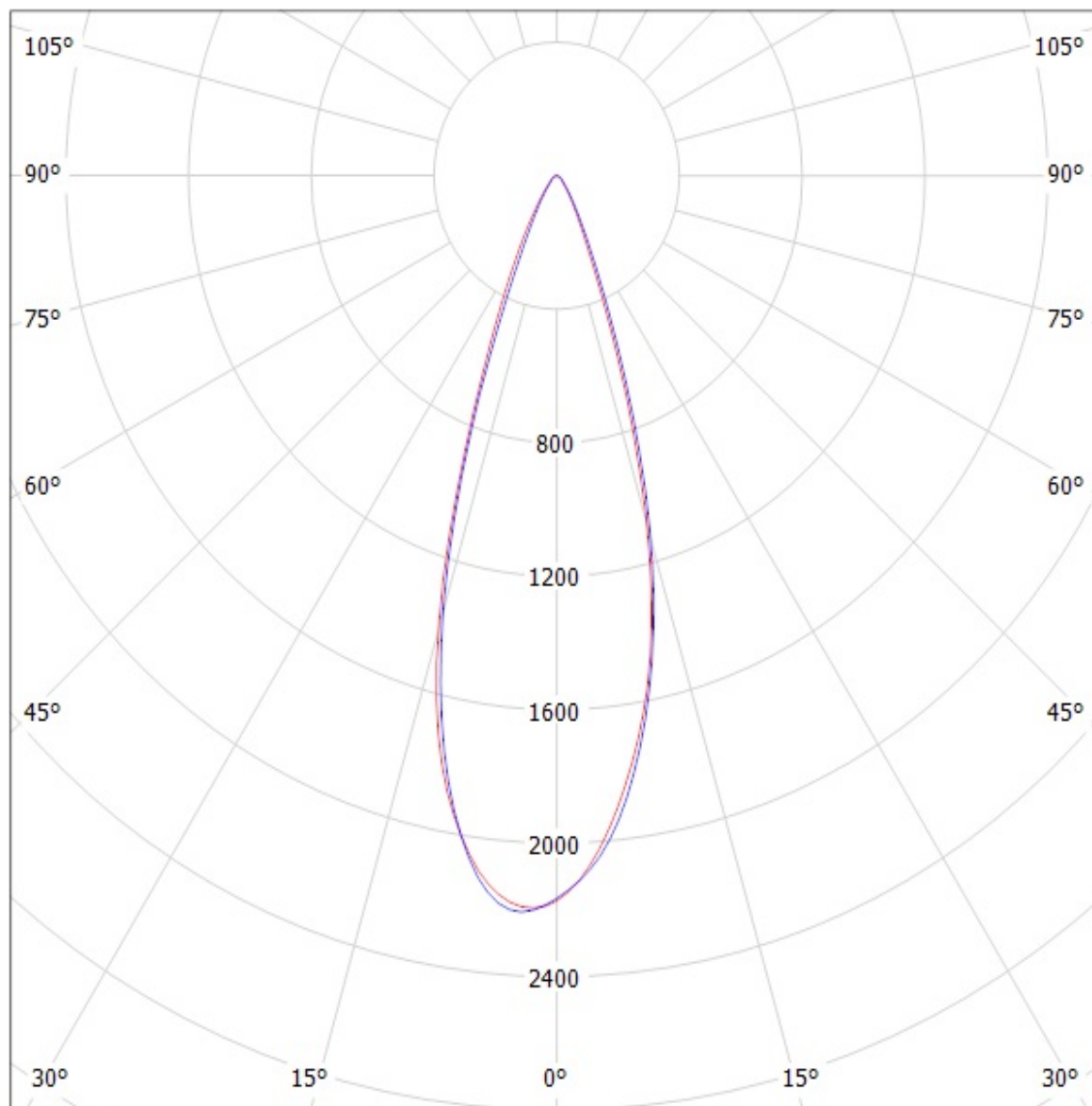


Luminaire: Ledil Oy FP13031\_LISA2-W-CLIP\_Seoul\_Z8Y22P\_SIMULATED  
Lamps: 1 x Seoul Z8Y22P





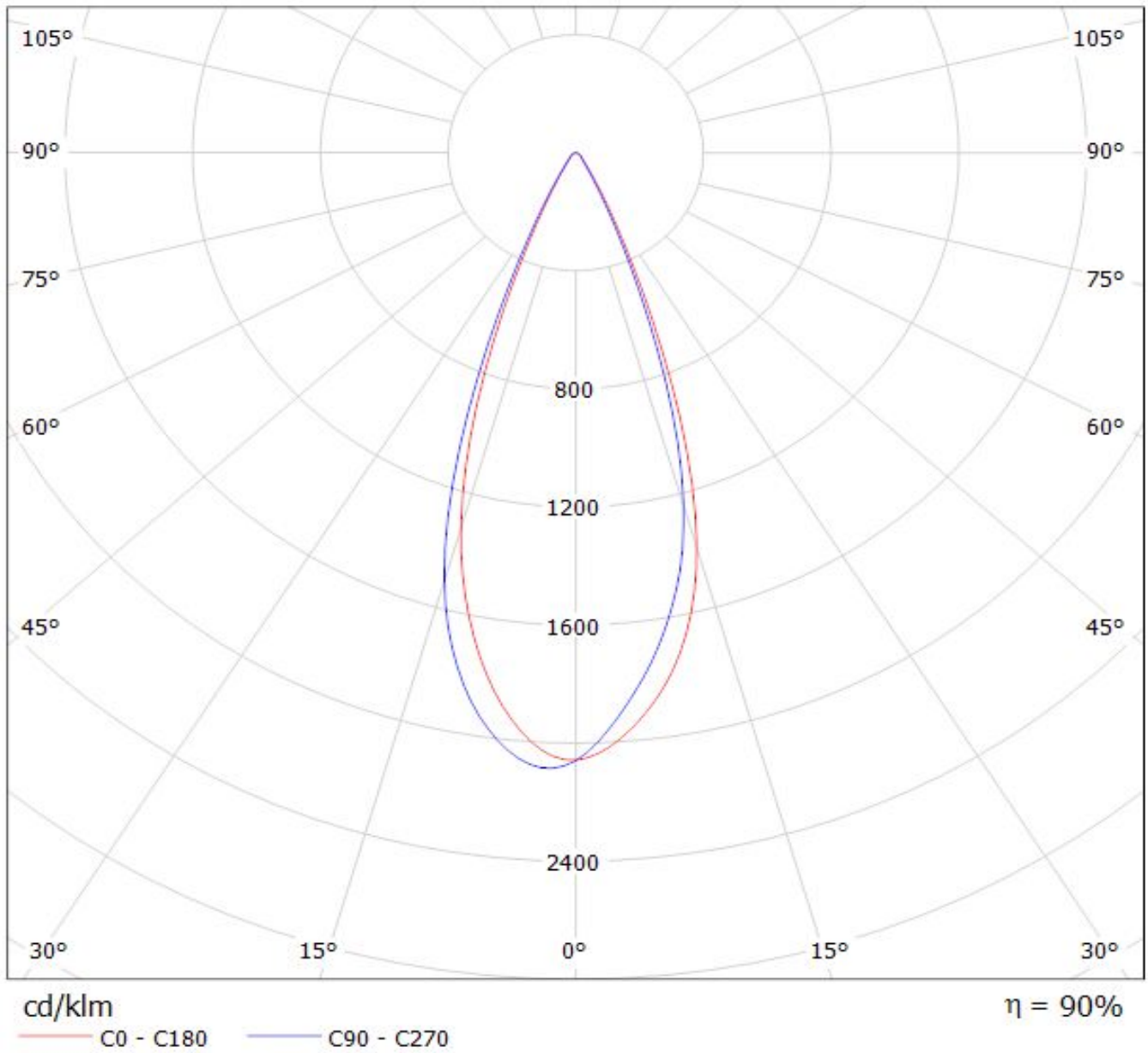
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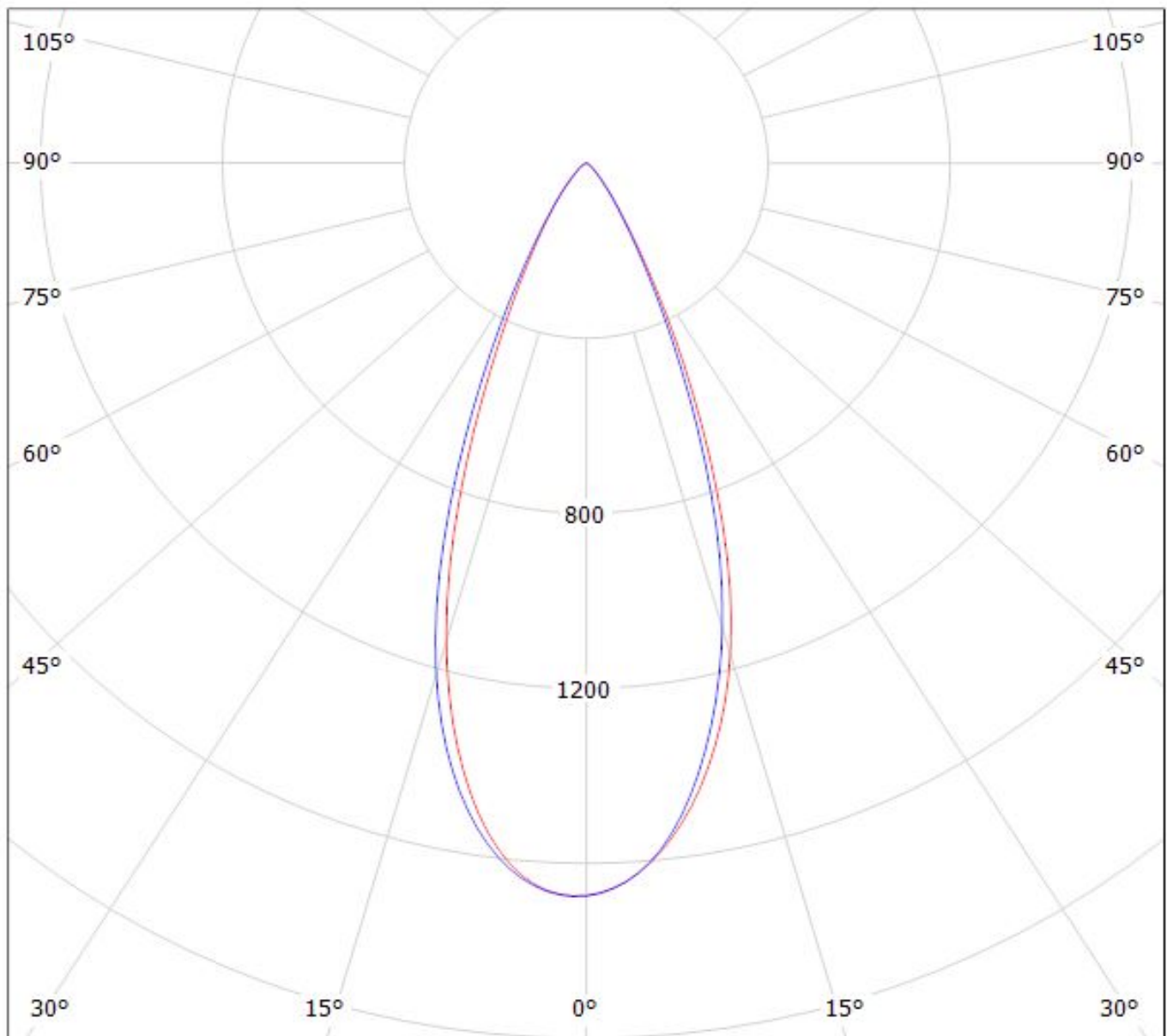
cd/klm

— C0 - C180 — C90 - C270

Luminaire: LEDiL Oy FP13025&FP13031\_LISA2-W\_(PIN&CLIP)\_(XP-G2) Eff.88%  
Lamps: 1 x Cree\_(XP-G2) 104lm@250mA CCT=6600K P=0.76W I=250mA



Luminaire: Ledil Oy  
Lamps: 1 x



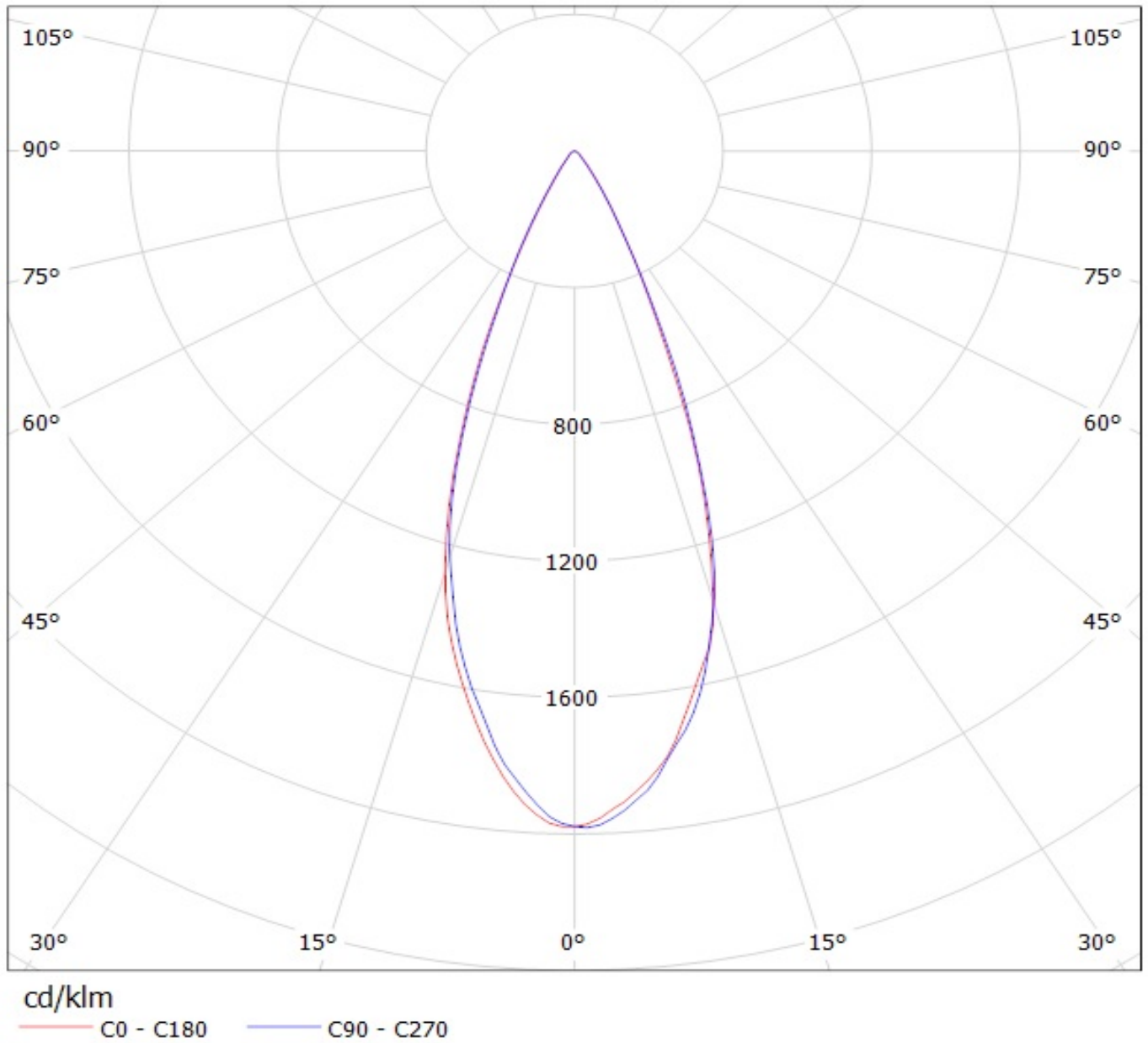
cd/klm

— C0 - C180

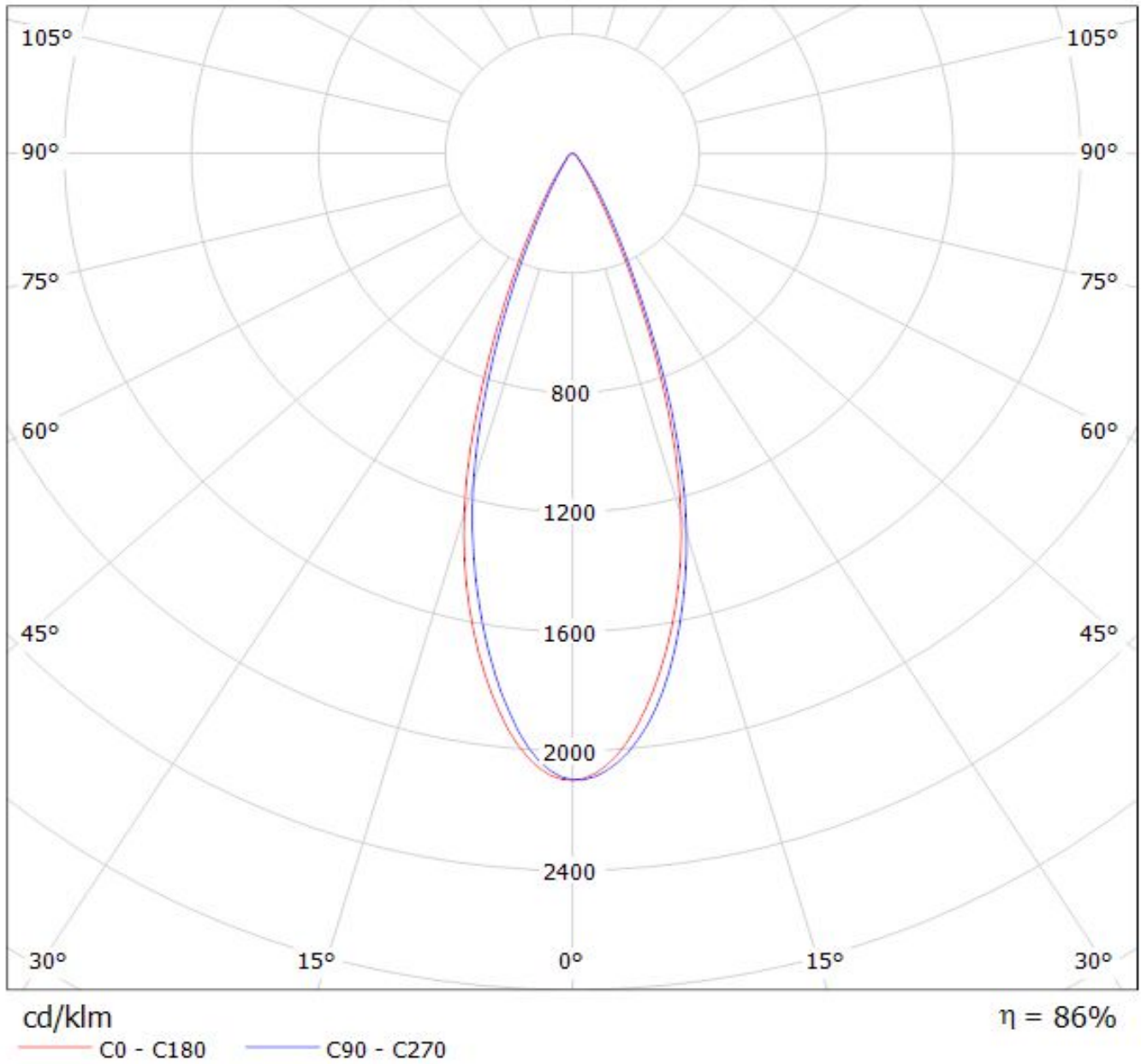
— C90 - C270

$\eta = 85\%$

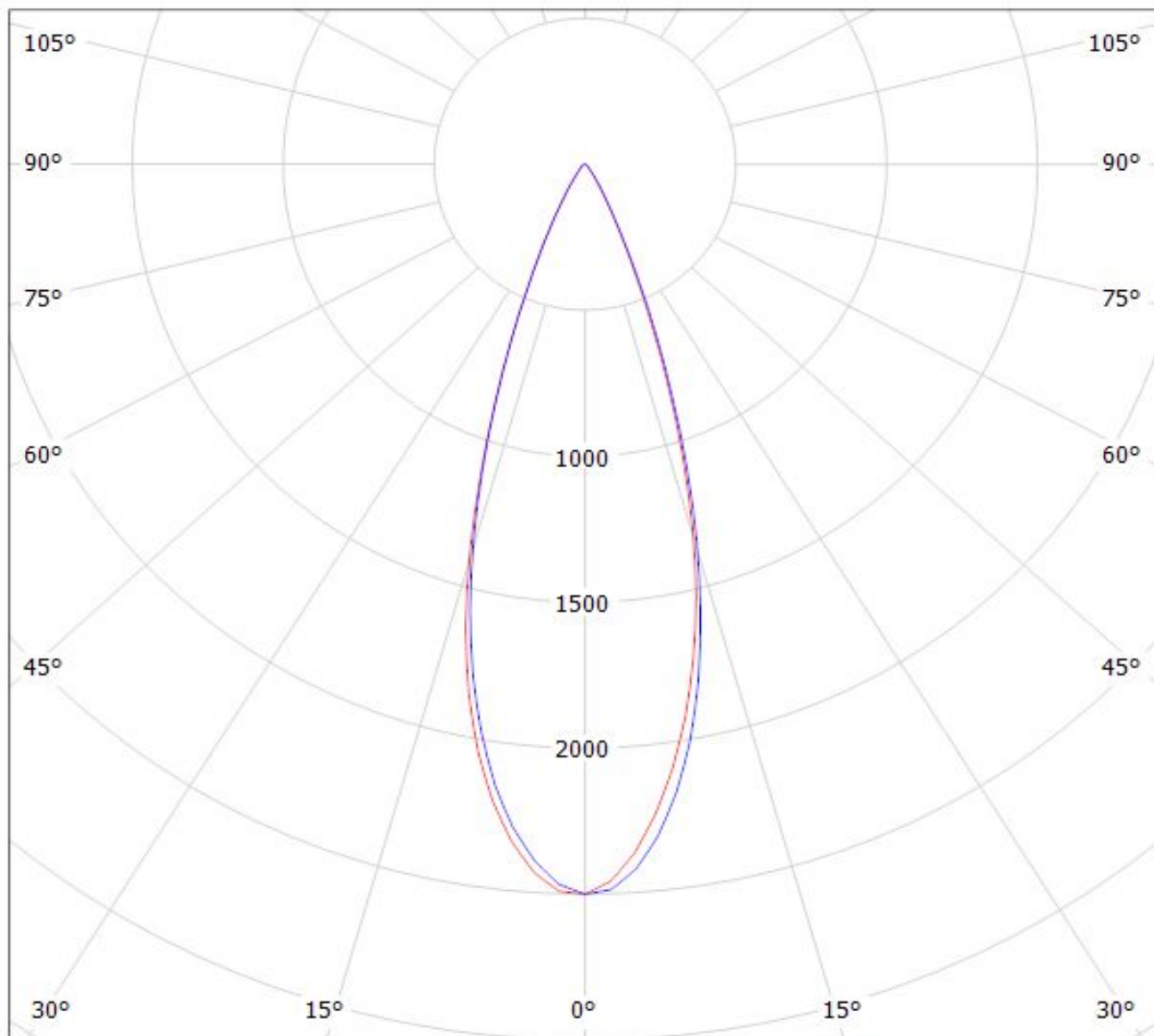
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Lamps: 1 x LG 3535 Ceramic gen2 (PKG5700K) 116lm @ 250mA CCT=6200K P=0.7W I=250mA



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cd/klm

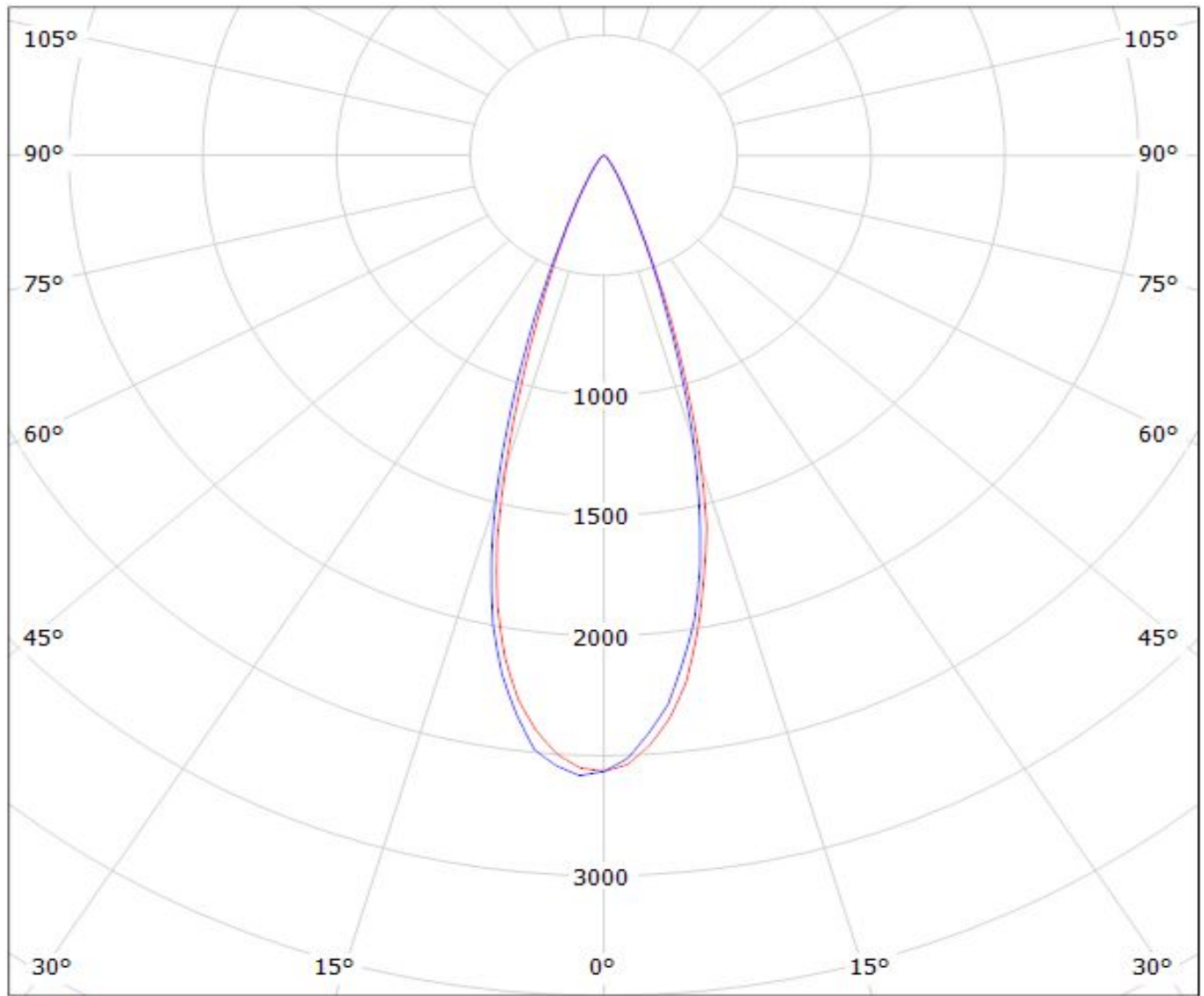
— C0 - C180

— C90 - C270

$\eta = 89\%$

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Lamps: 1 x Nichia NCSxx19B (NCSL119BE) 88lm @ 250mA CCT=3000K P=0.8W I=250mA



cd/klm

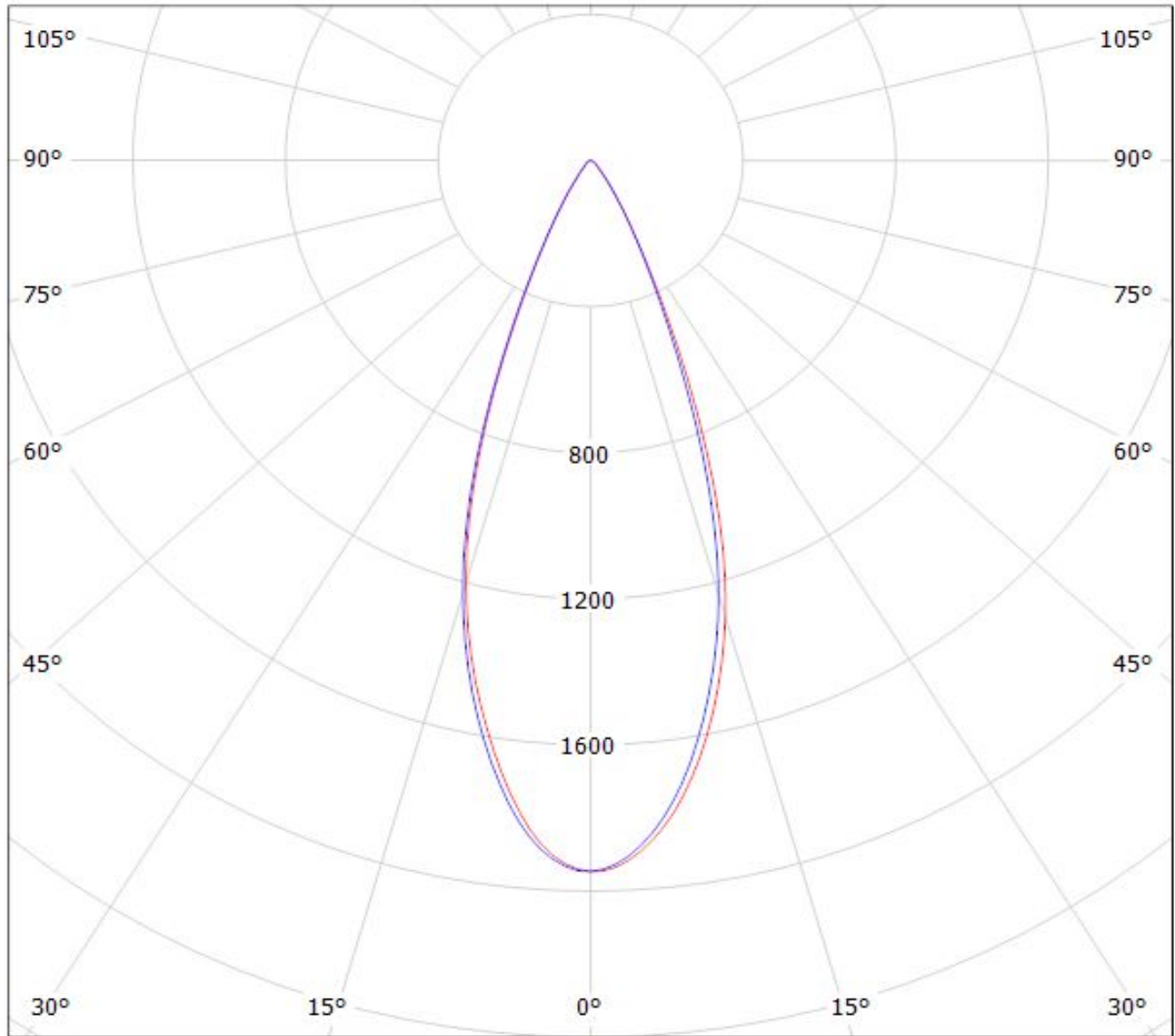
— C0 - C180

— C90 - C270

$\eta = 85\%$

Luminaire: LEDiL Oy FP13031\_LISA2-W-CLIP\_(NVSL219CE)

Lamps: 1 x Nichia\_NVSL219CE\_101.052lm@250mA\_P=0.713154W\_I=0.25A



cd/klm

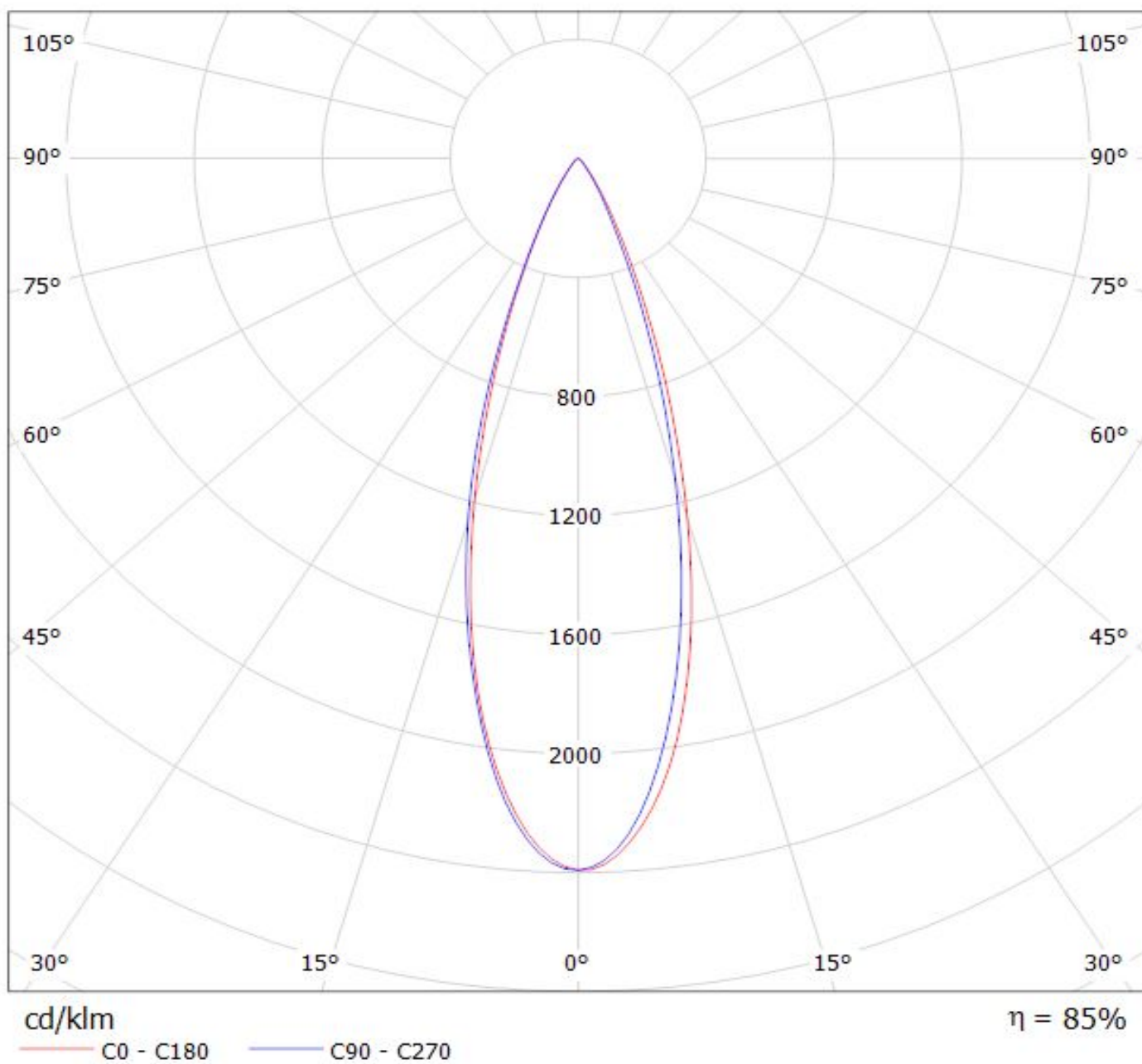
— C0 - C180

— C90 - C270

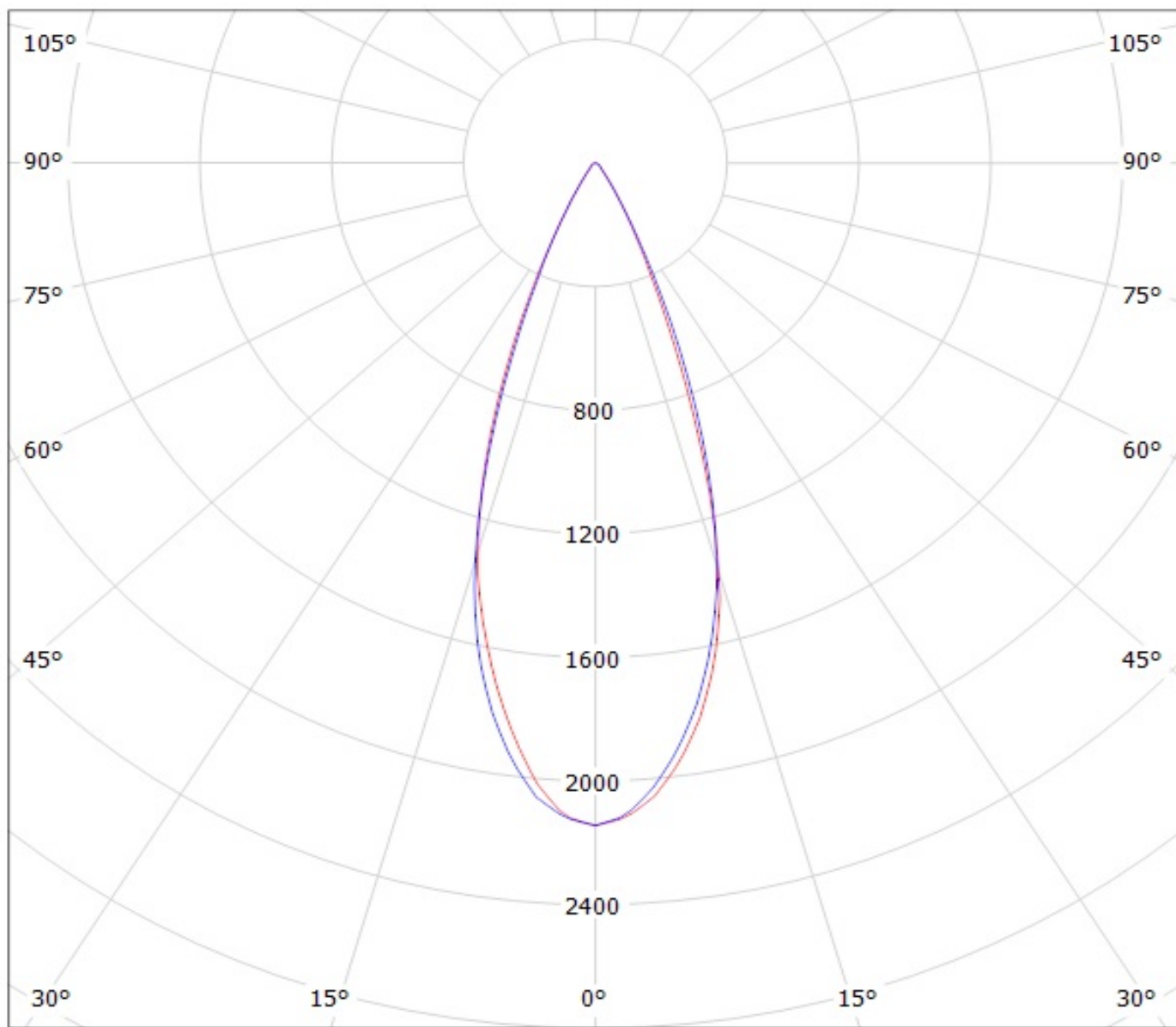
$\eta = 87\%$



Luminaire: LEDiL Oy  
Lamps: 1 x FP13031\_LISA2-W-PIN\_(SQ)



Luminaire: Ledil Oy FP13031\_LISA2-W-CLIP\_(LH351Z) Efficiency=88%  
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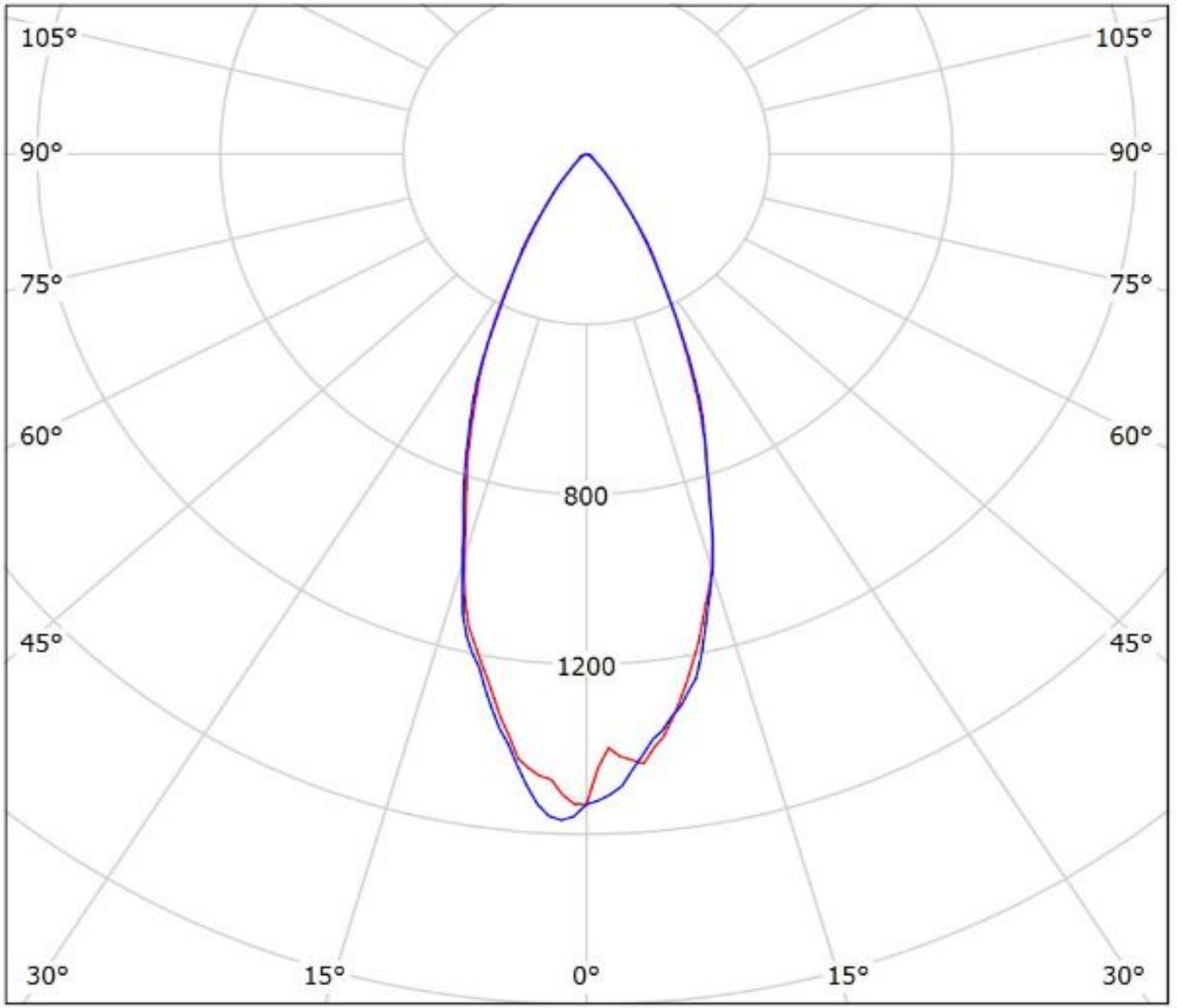


cd/klm

— C0 - C180

— C90 - C270

Luminaire: Ledil Oy FP13031\_LISA2-W-CLIP\_Seoul\_Z8Y22P\_SIMULATED  
Lamps: 1 x Seoul Z8Y22P



cd/klm  
— C0 - C180 — C90 - C270

$\eta = 84\%$

**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.**