

## DETAILS

<b>Product Number</b>	CA12838_FLARE-MINI-A-PIN
<b>Family</b>	Flare
<b>Type</b>	Assembly
<b>Color</b>	clear
<b>Diameter</b>	16 mm
<b>Height</b>	9,1 mm
<b>Style</b>	round
<b>Optic Material</b>	PMMA
<b>Holder Material</b>	
<b>Fastening</b>	tape, pin
<b>Status</b>	production ready
<b>ROHS Compliant</b>	Yes
<b>Date Updated</b>	2/12/2016

## OPTICAL PROPERTIES

LED	Viewing	Light	Effi-	cd/lm	Connector
	Angle	Beam	ciency		
XP-E	113+20 deg	REC-class	94 %	0.900	-
XB-D	130+21 deg	REC-class	94 %	0.800	-
XT-E	124+22 deg	REC-class	94 %	0.700	-
XP-G	114+22 deg	REC-class	94 %	0.800	-
XP-G2	94+19 deg	REC-class	94 %	1.300	-
XP-E2	93+14 deg	REC-class	94 %	1.800	-
XP-L	113+25 deg	REC-class	90 %	0.790	-
XP-L2	100+28 deg	REC-class	94 %	0.840	-
H35C1 (LEMWA33)	96+18 deg	REC-class	94 %	1.320	-
LUXEON Rebel ES	110+19 deg	REC-class	94 %	0.900	-
LUXEON T	95+19 deg	REC-class	93 %	1.300	-
LUXEON H50-2	sim: 18+86	REC-class	sim: 93 %	sim: 1.450	-
LUXEON TX	93+19 deg	REC-class	94 %	1.300	-
LUXEON C	sim: 11+84	REC-class	sim: 92 %	sim: 1.600	-
NCSxx19A	112+20 deg	REC-class	94 %	0.900	-
NCSxx19B	95+15 deg	REC-class	94 %	1.600	-
NVSxx19B/NVSxx19C	101+20 deg	REC-class	94 %	1.200	-
Oslon Square PC	116+22 deg	REC-class	94 %	0.800	-
Oslon SSL 80	84+12 deg	REC-class	93 %	2.000	-
Oslon SSL 150	106+11 deg	REC-class	93 %	1.700	-
LH351Z	95+19 deg	REC-class	94 %	1.500	-



D

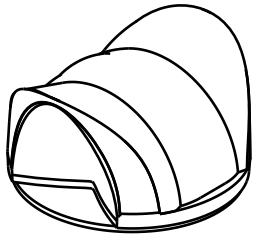
C

B

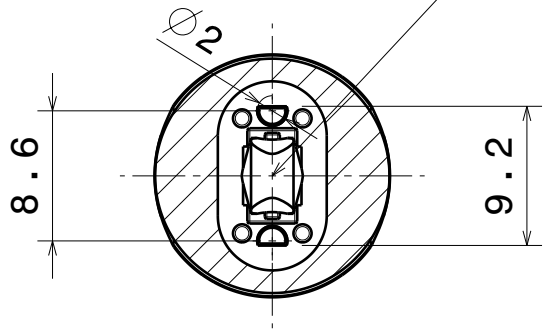
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4

4



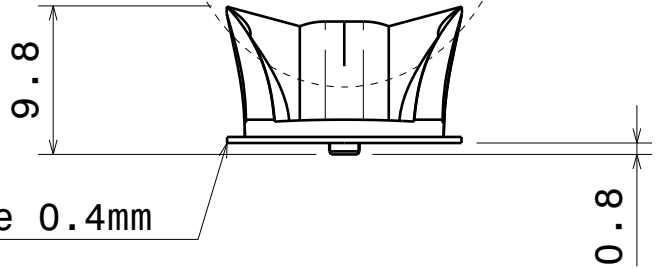
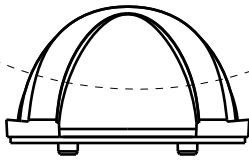
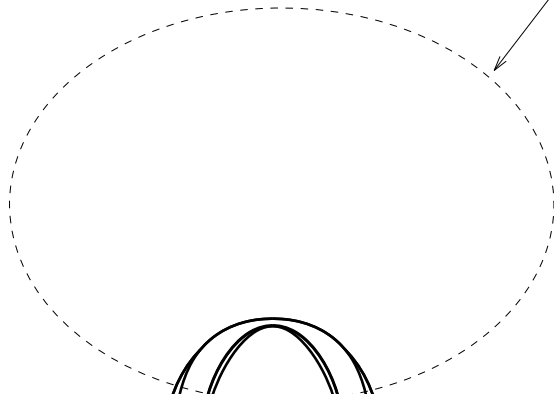
Led center position



Beam direction

3

3



Tape 0.4mm

0.8

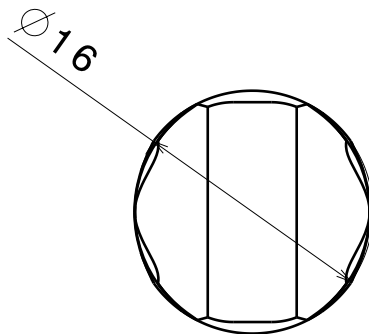
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2

Material:  
Lens: PMMA  
Tape: PU Foam

Tolerances for dimensions:  
0-20mm tolerance value +/-0.1mm  
21-45mm tolerance value +/-0.2mm  
46-90mm tolerance value +/-0.3mm  
91-100mm tolerance value +/-0.4mm  
101-mm tolerance value +/-0.5mm

Note:  
Must use external positioning  
over light source.



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Ledil Oy  
Salorankatu 10  
FIN 24240 SALO  
Finland

DRAWING TITLE

Datasheet Flare-Mini-A-PIN Assy

DRAWN BY

jk

DATE

20151005

CHECKED BY

DATE

SIZE

A4

DRAWING NUMBER

CA12838

REV

DESIGNED BY

pl

DATE

27.02.2012

SCALE

2:1

WEIGHT 1,3g

SHEET

1/1

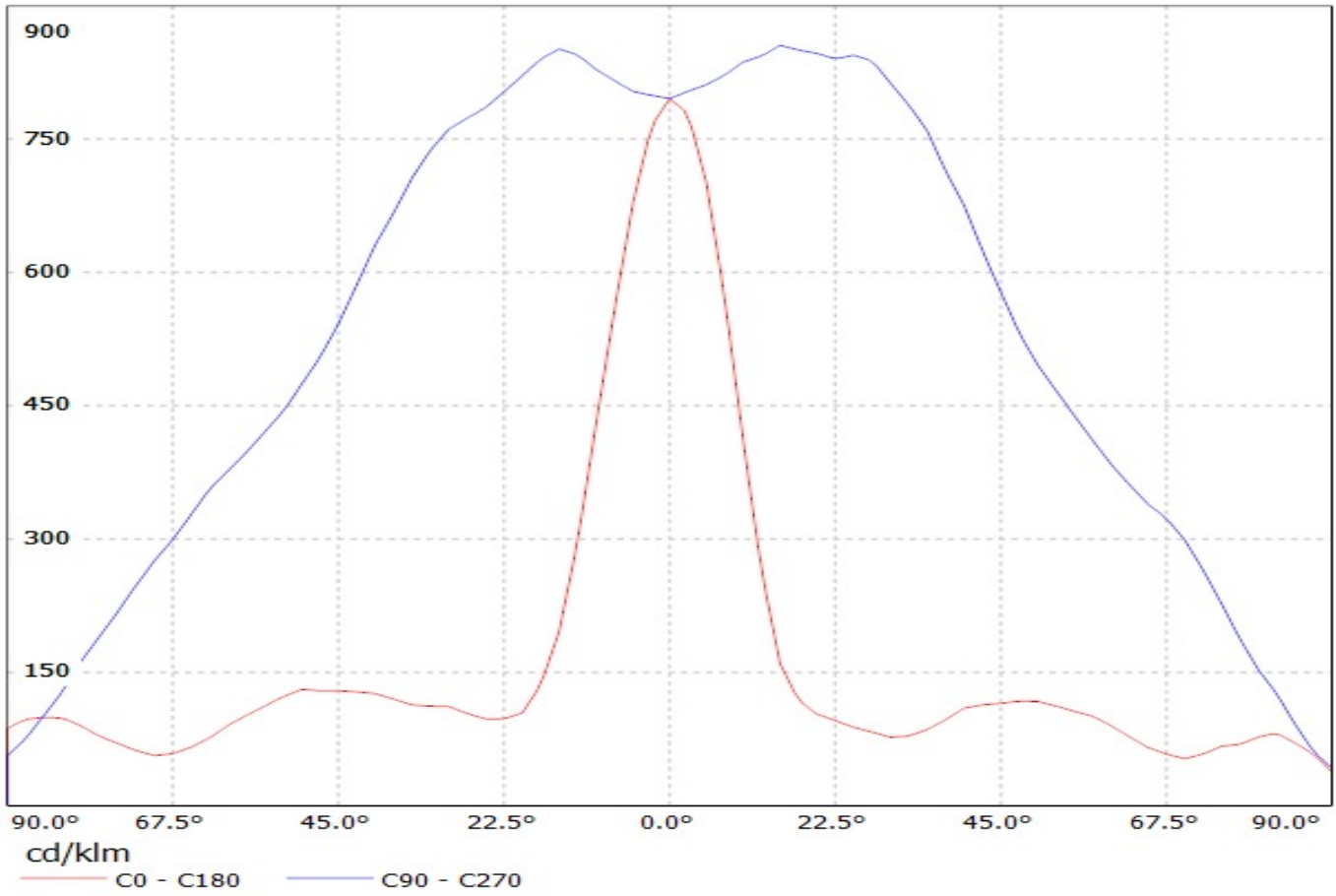
D

A

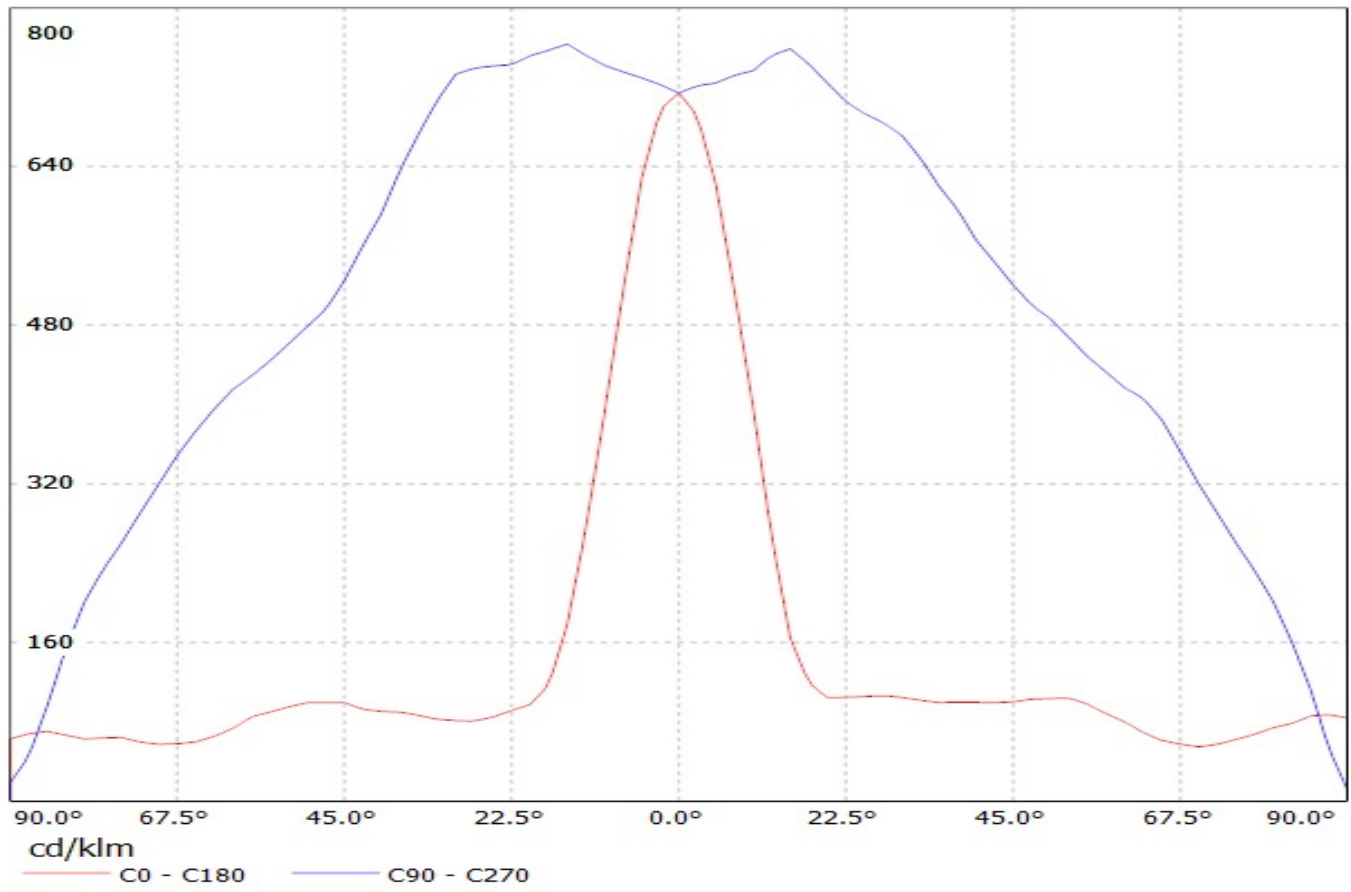
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1

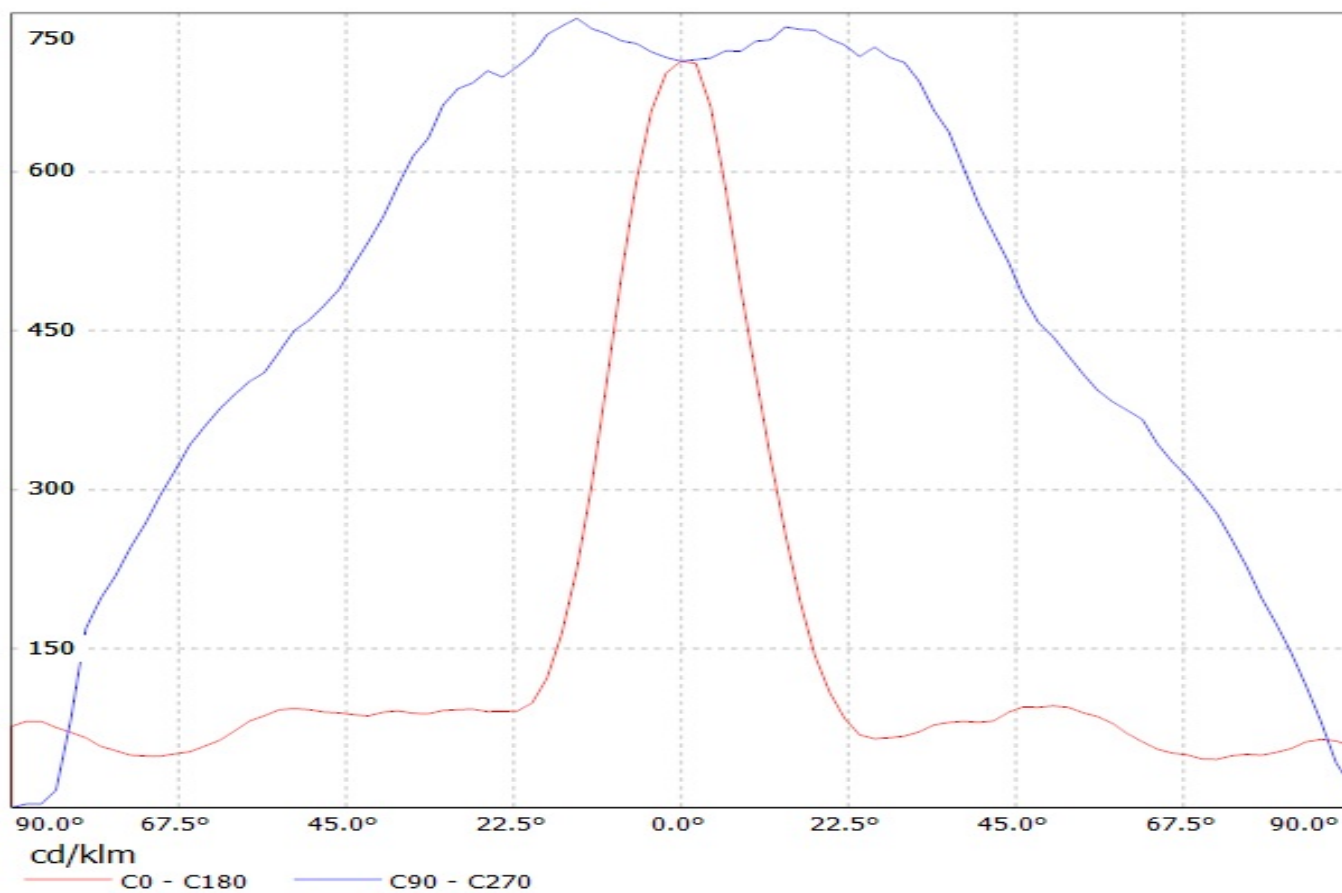
Luminaire: Ledil Oy CA12764&CA12838\_FLARE-MINI-A (Cree XP-E 76lm @ 250mA) Efficiency=94%  
Lamps: 1 x Cree XP-E 76lm @ 250mA



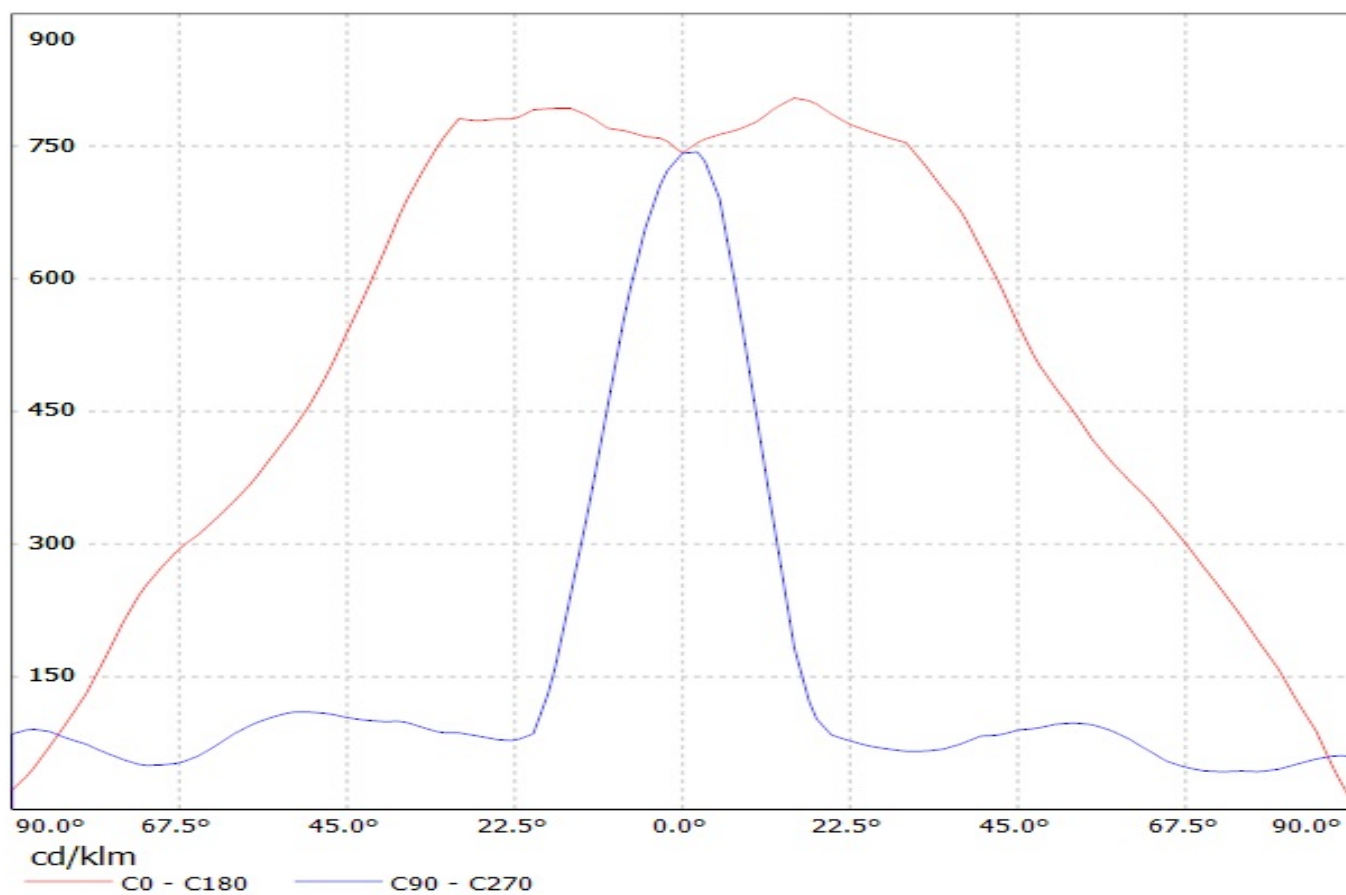
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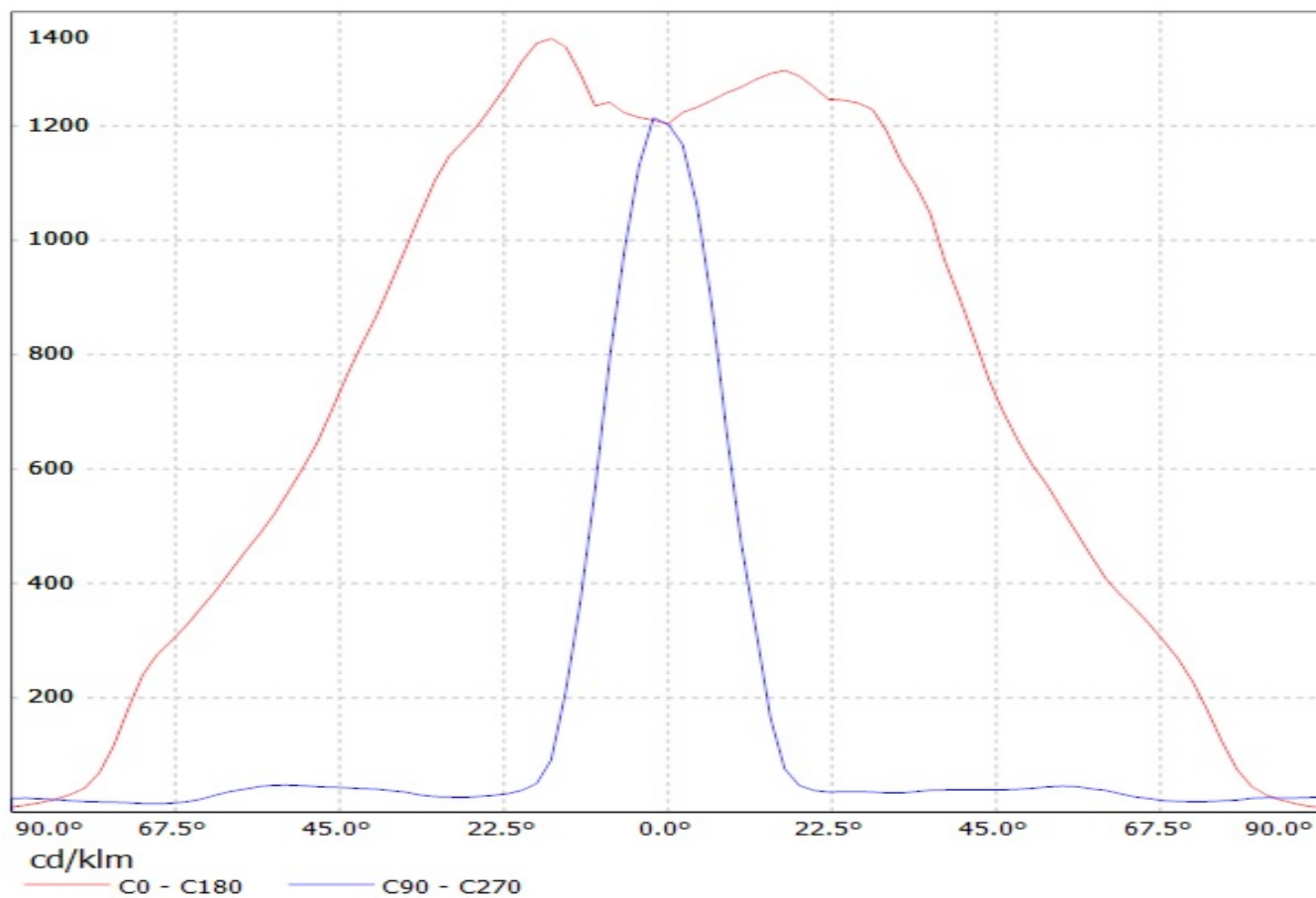
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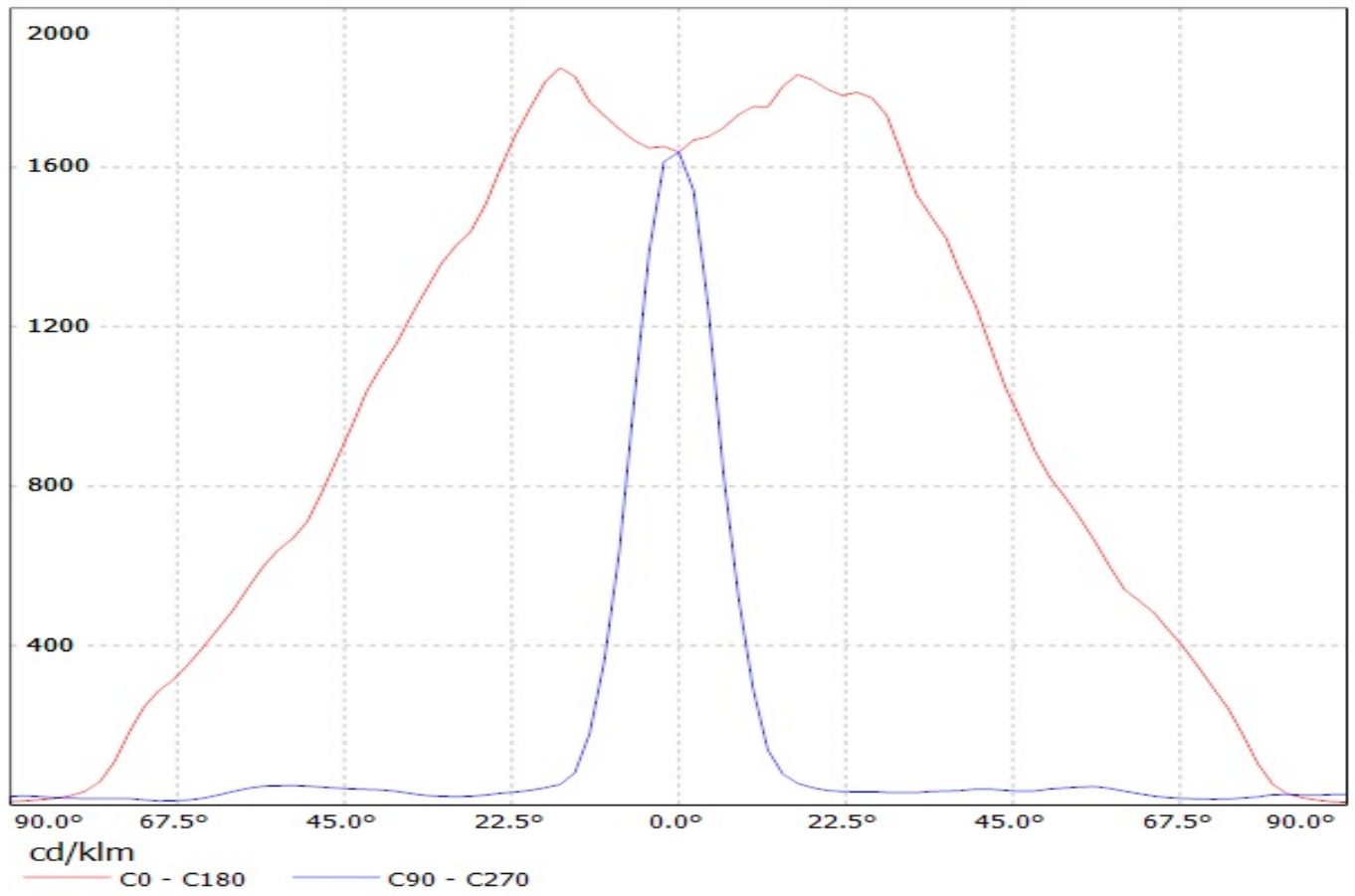
Luminaire: Ledil Oy CA12764&CA12838\_FLARE-MINI-A (Cree XP-G 87lm @ 250mA) Efficiency=94%  
Lamps: 1 x Cree XP-G 87lm @ 250mA



Luminaire: Ledil Oy CA12838\_FLARE-MINI-A-PIN (CREE XP-G2 (99 lm @ 250 mA)) Efficiency=94%  
Lamps: 1 x CREE XP-G2 (99 lm @ 250 mA)

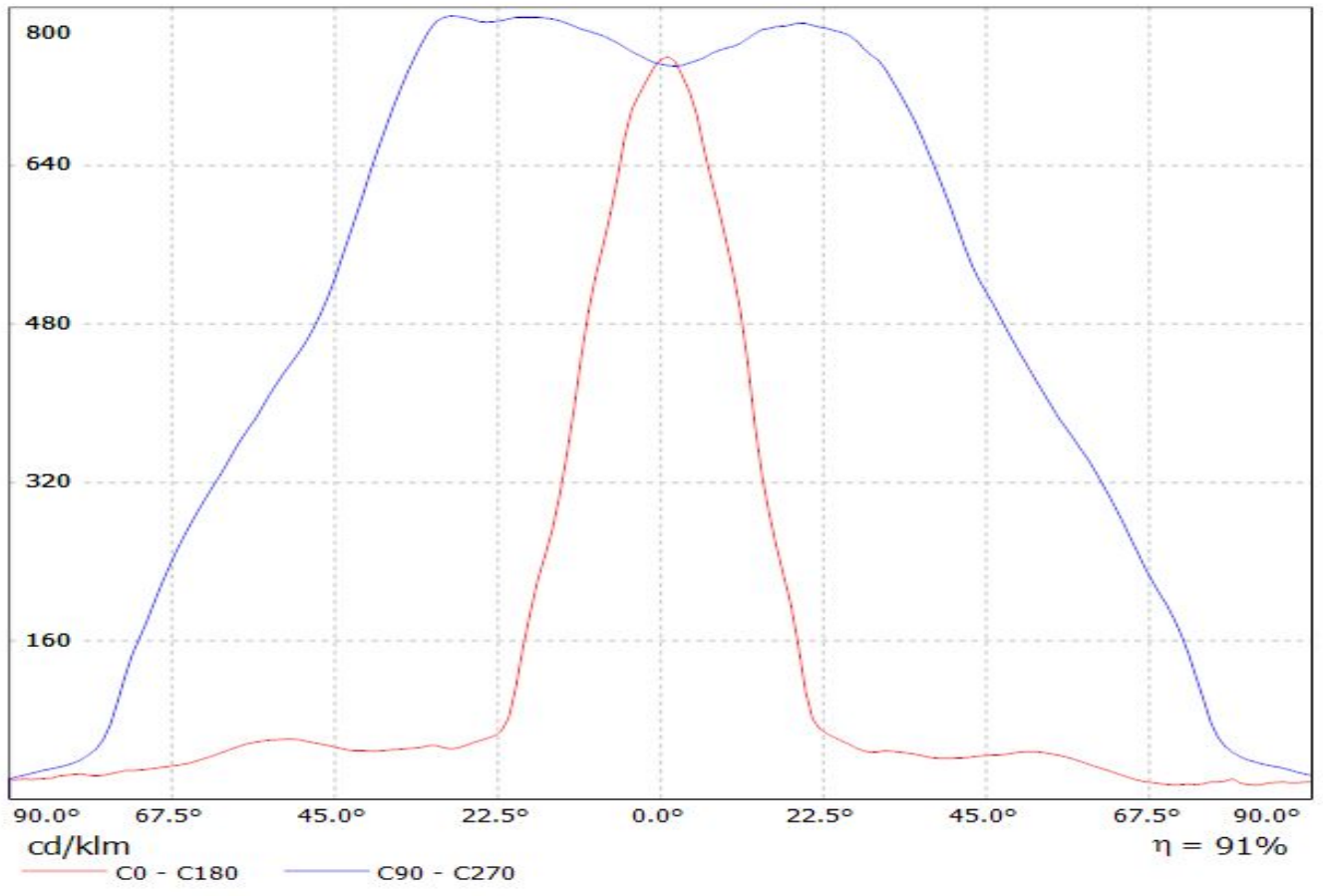


Luminaire: Ledil Oy CA12838\_FLARE-MINI-A-PIN (CREE XP-E2 (92 lm @ 250 mA)) Efficiency=94%  
Lamps: 1 x CREE XP-E2 (92 lm @ 250 mA)



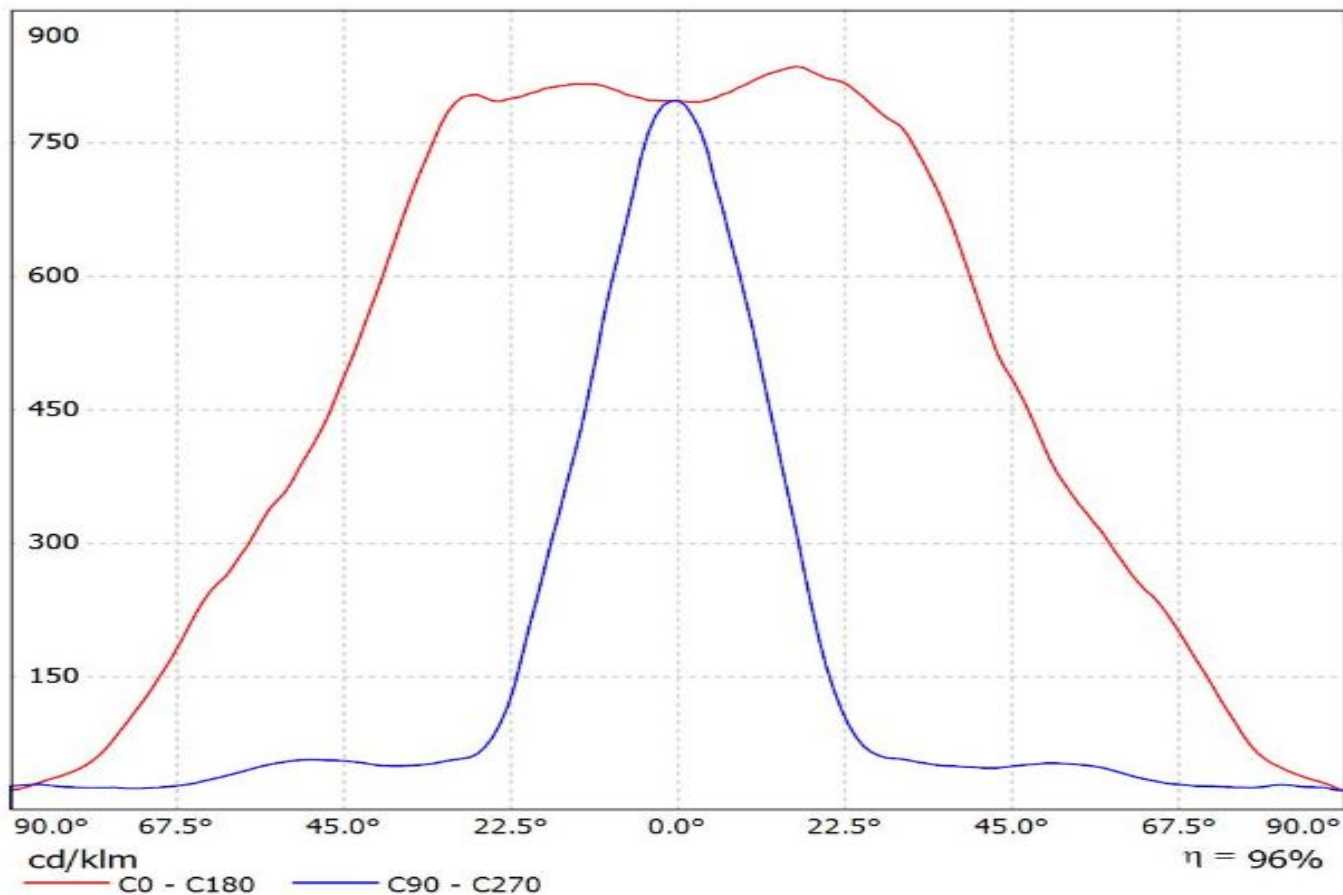


Luminaire: LEDiL Oy CA12838\_FLARE-MINI-A-PIN\_(XP-L) Eff.90.6%  
Lamps: 1 x Cree\_XP-L\_127.813lm@250mA\_P=0.73723W\_I=249.9mA

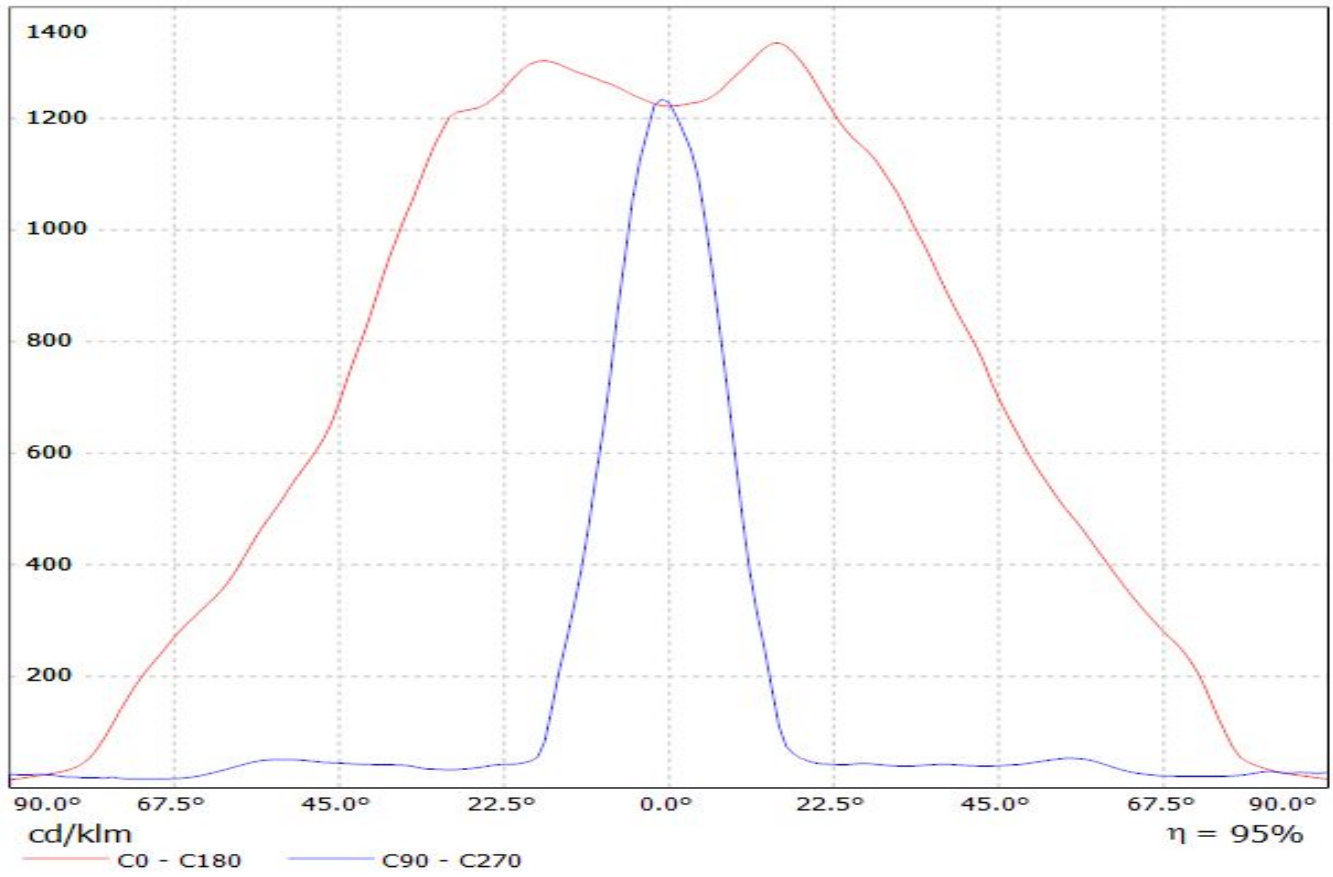


Luminaire: Ledil CA12838\_FLARE-MINI-A-PIN\_(XP-L2)

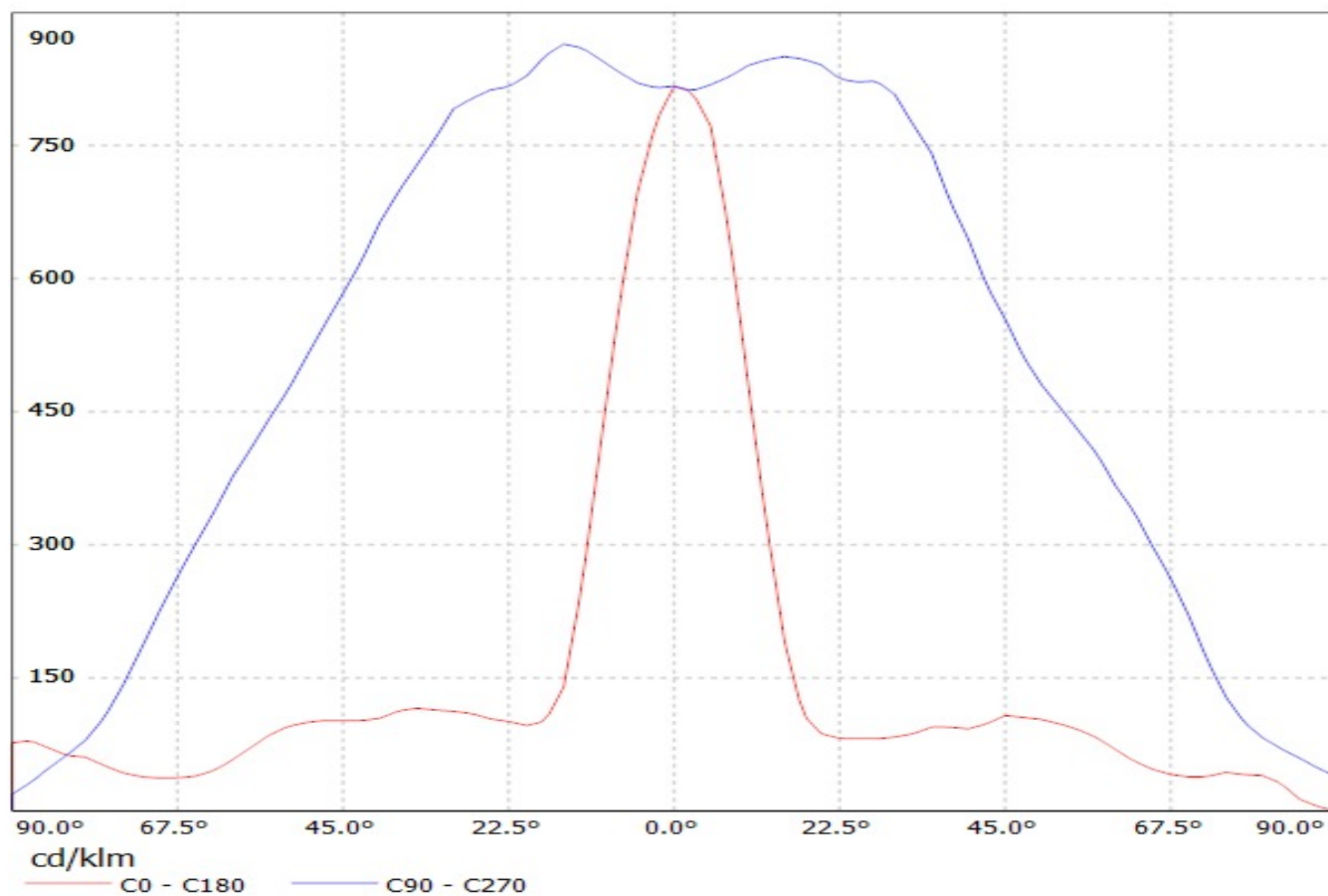
Lamps: 1 x Cree\_XP-L2\_(XPLWT-00-0000-000HU630G)\_115.505lm@250mA\_P=0.72165W\_I=0.25A



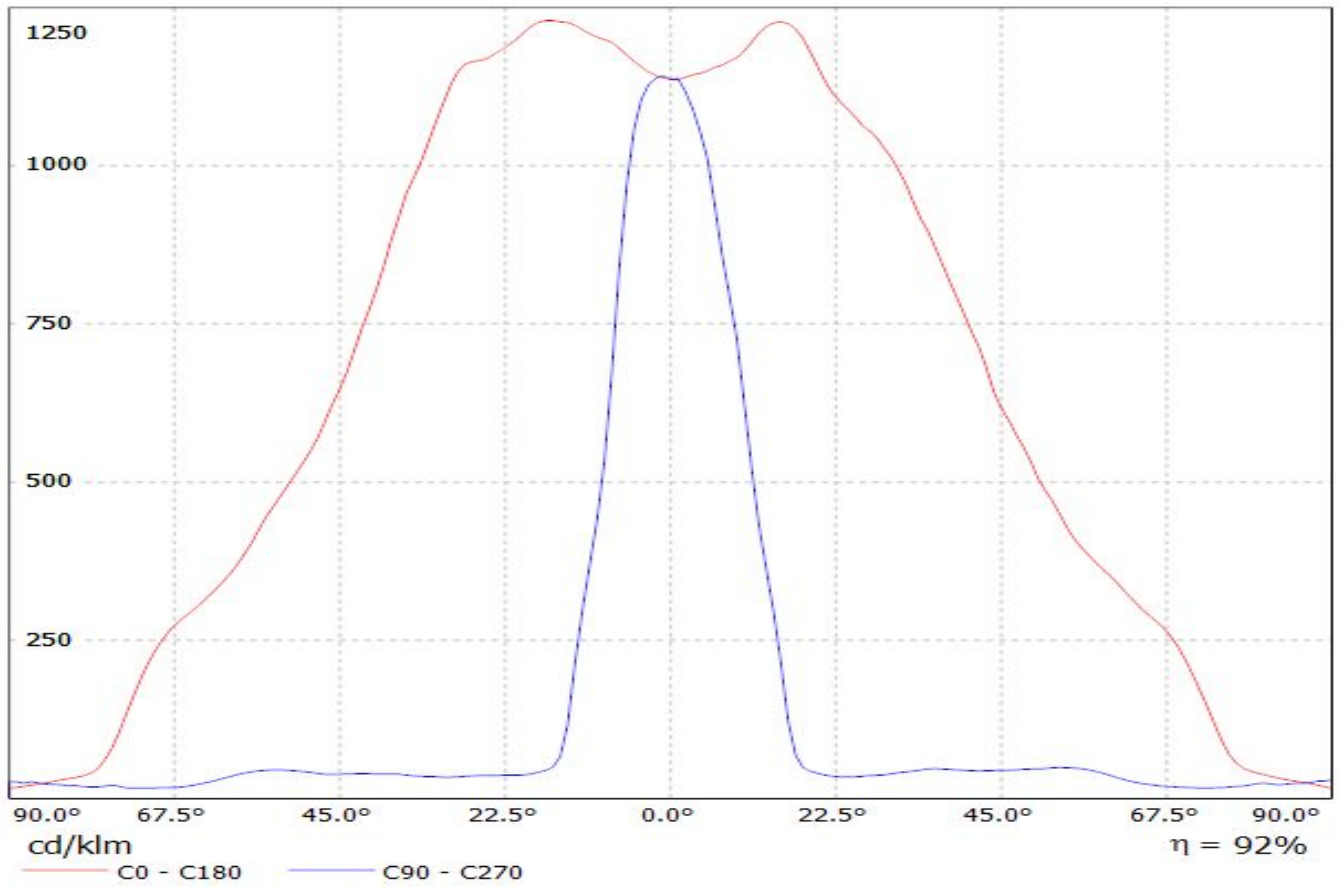
Luminaire: LEDiL Oy CA12838\_FLARE-MINI-A-PIN\_(LG-3535-CERAMIC-GEN2) Eff.94%  
Lamps: 1 x LG-3535-CERAMIC-GEN2\_116.256lm@250mA\_P=0.754973W\_CCT=6235K\_I=249.9mA



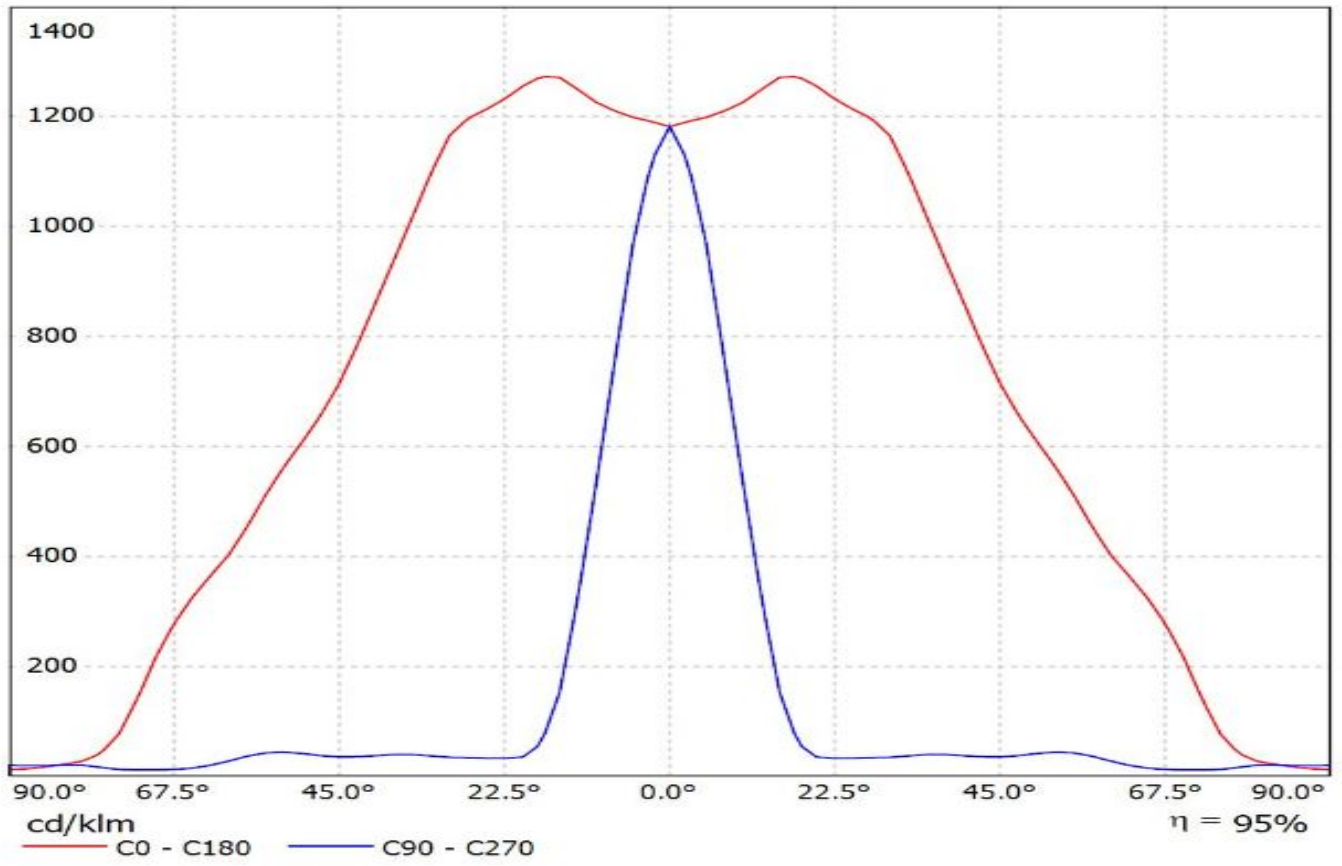
Luminaire: Ledil Oy CA12764/CA12838\_FLARE-MINI-A (Luxeon Rebel ES 92lm @ 250mA) Efficiency=94%  
Lamps: 1 x Luxeon Rebel ES 92lm @ 250mA



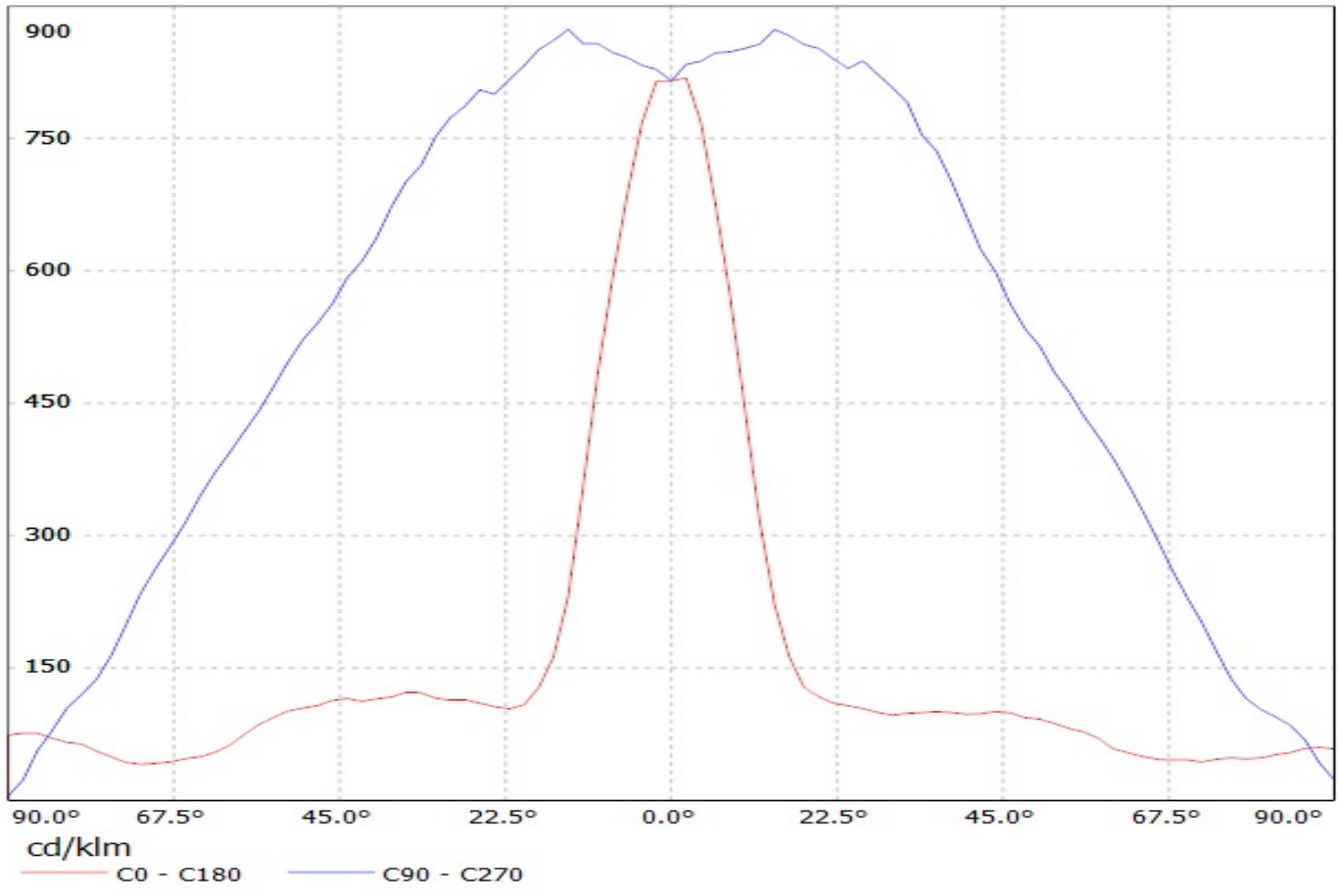
Luminaire: LEDiL Oy CA12838\_FLARE-MINI-A-PIN\_(LUXEON\_T)\_1 Eff.92.5%  
Lamps: 1 x LUXEON T (74lm@250mA)



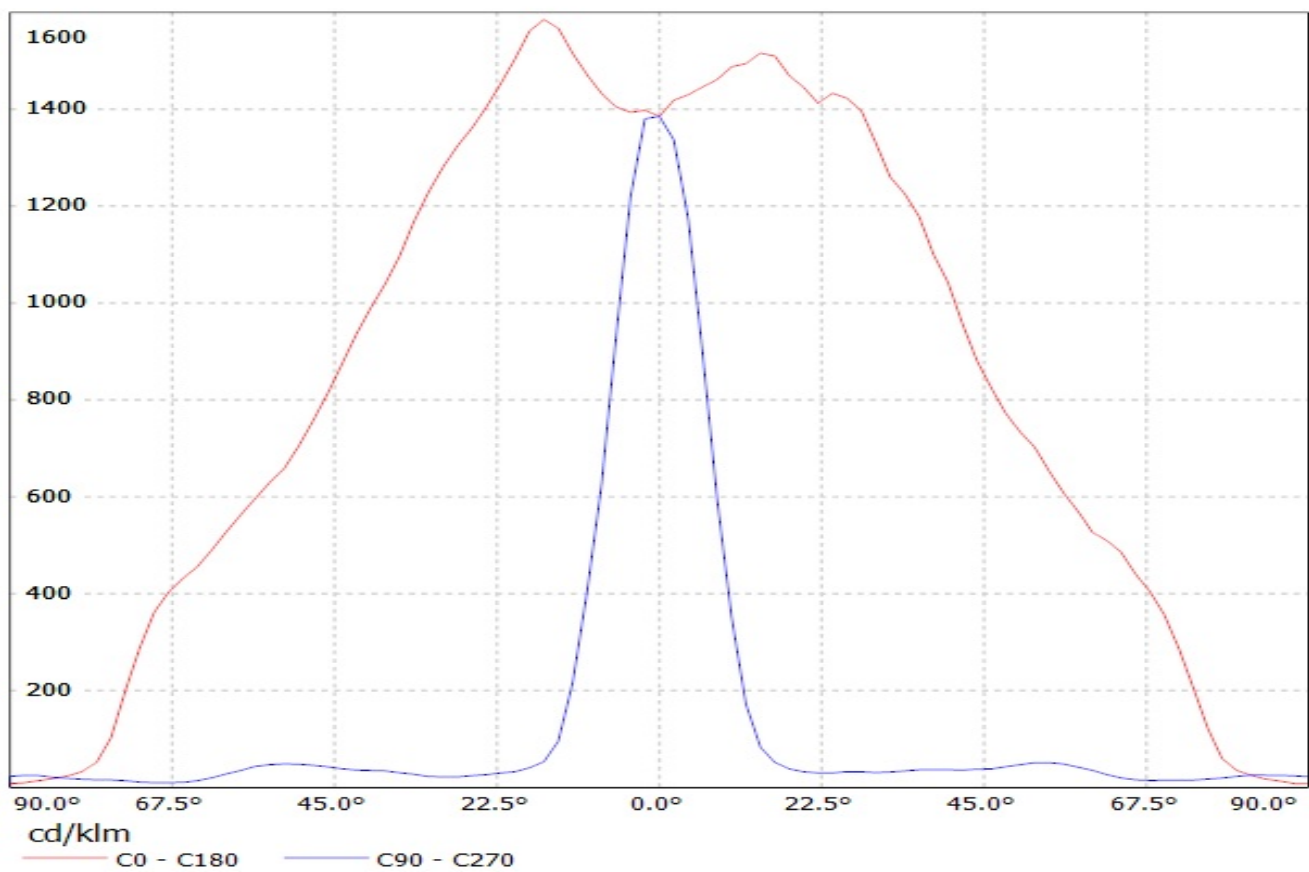
Luminaire: Ledil Oy CA12838\_FLARE-MINI-A-PIN\_(Luxeon\_TX)  
Lamps: 1 x Luxeon TX (77.6lm @ 250mA) P=0.7W I=250mA



Luminaire: Ledil Oy CA12764&CA12838\_FLARE-MINI-A (Nichia NCS19 95lm @ 250mA) Efficiency=94%  
Lamps: 1 x Nichia NCS19 95lm @ 250mA

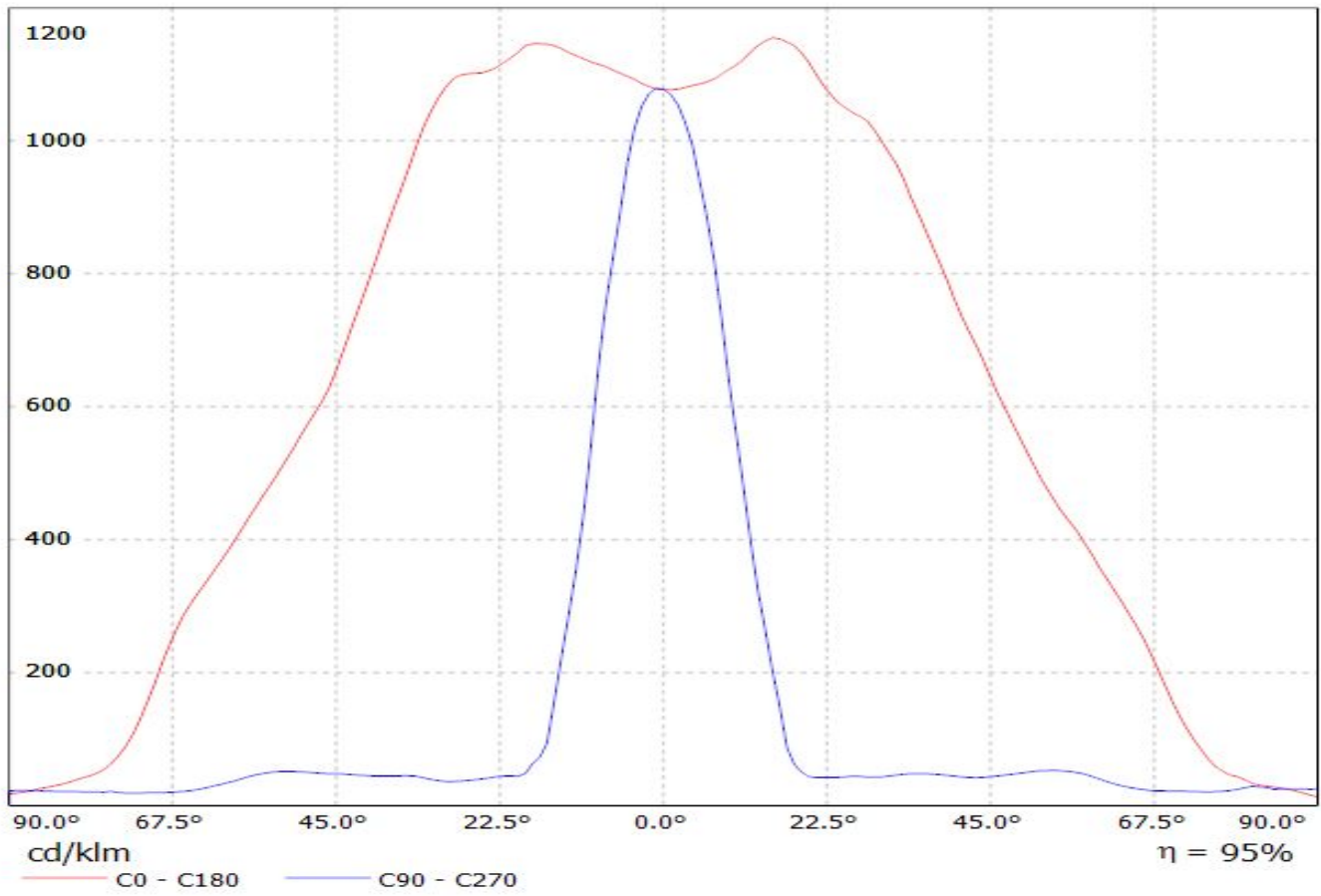


Luminaire: Ledil Oy CA12838\_Flare\_Mini-A-Pin\_(NCSxx19B) Efficiency=94%  
Lamps: 1 x Nichia NCSxx19B (NCSL119BE) 88.1lm @ 250mA CCT=3000K P=0.8W I=250mA

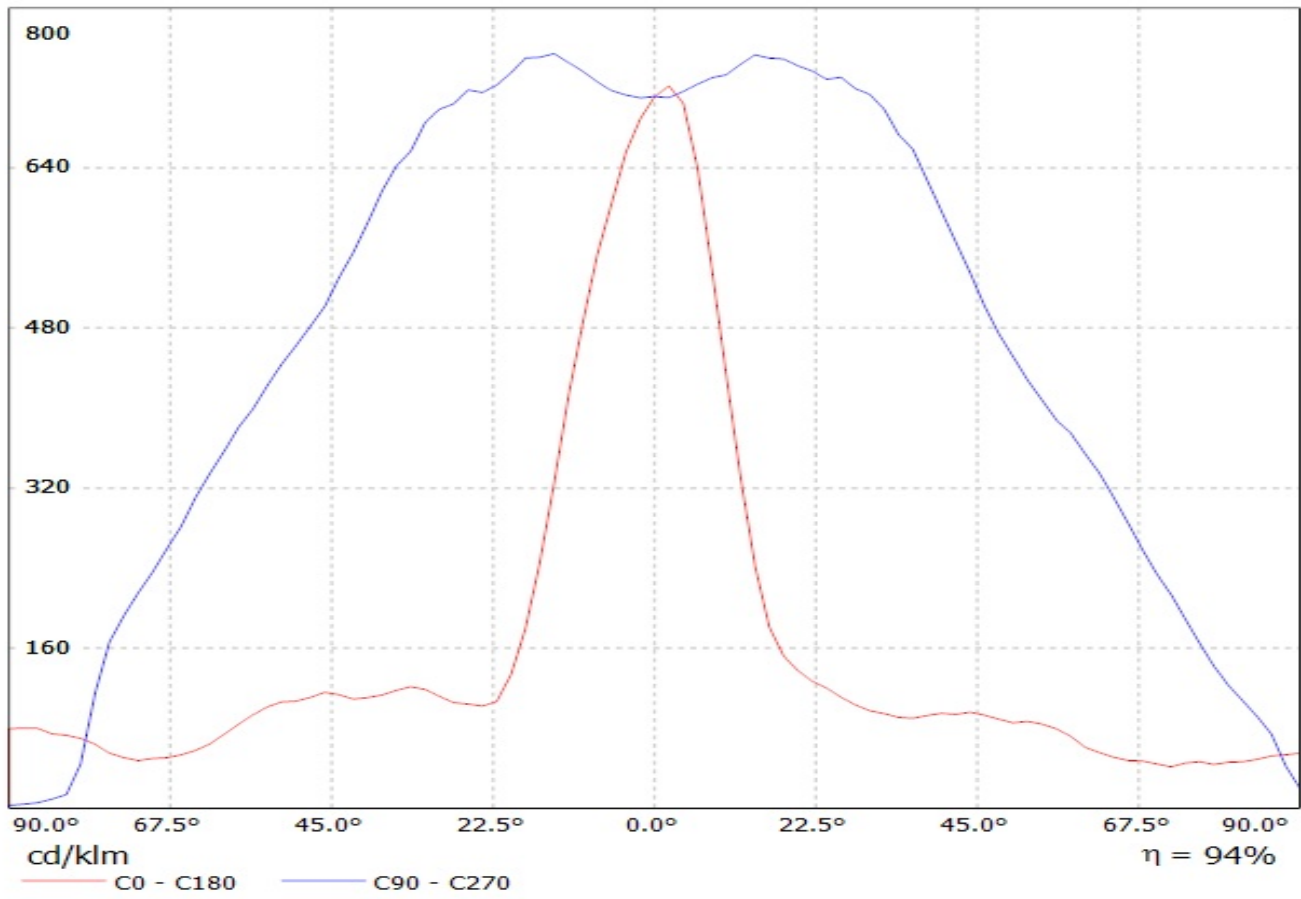




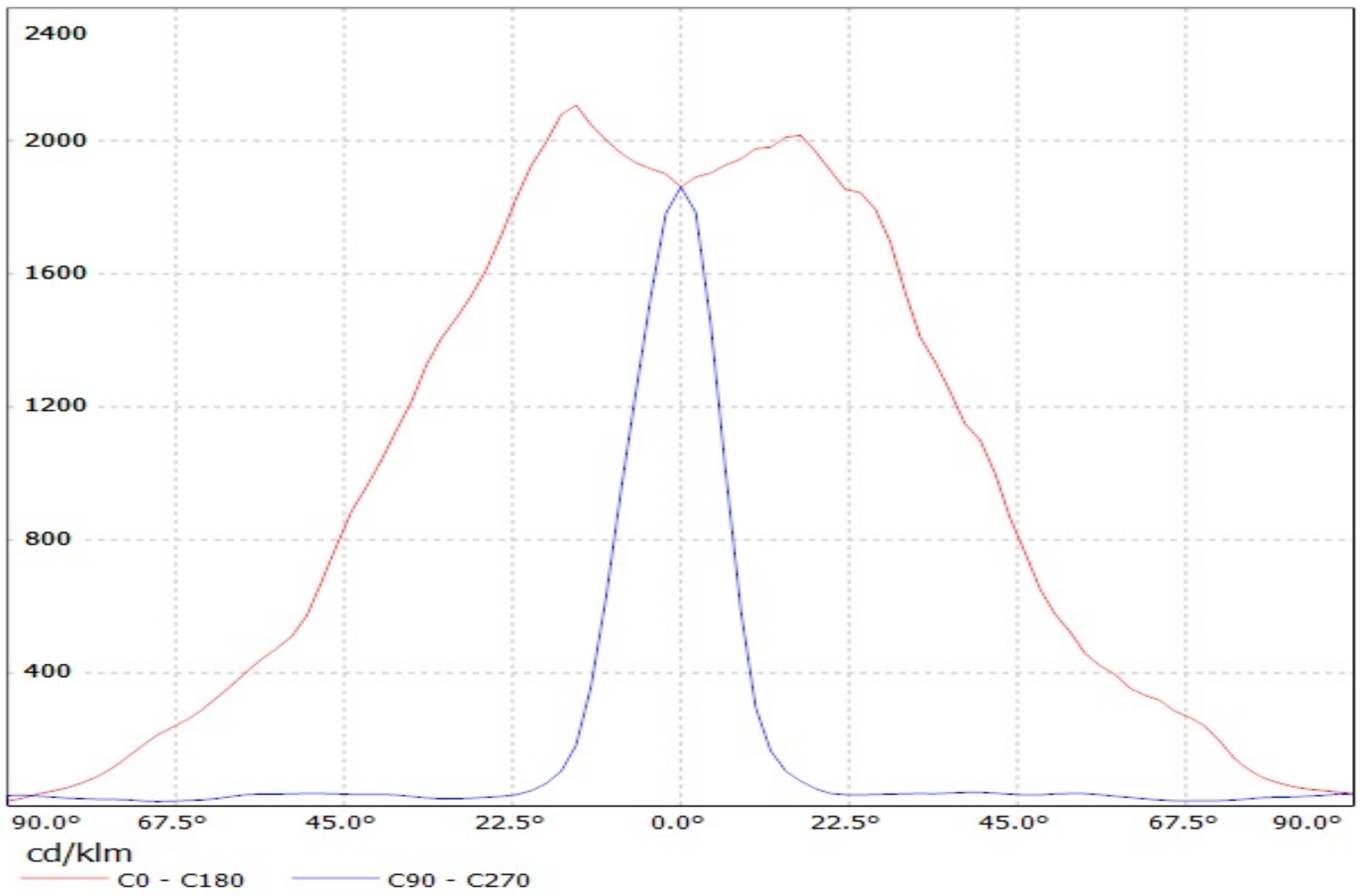
Luminaire: LEDiL Oy CA12838\_FLARE-MINI-A-PIN\_(NVSL219CE)  
Lamps: 1 x Nichia\_NVSL219CE\_101.227lm@250mA\_P=0.713404W\_I=0.25A



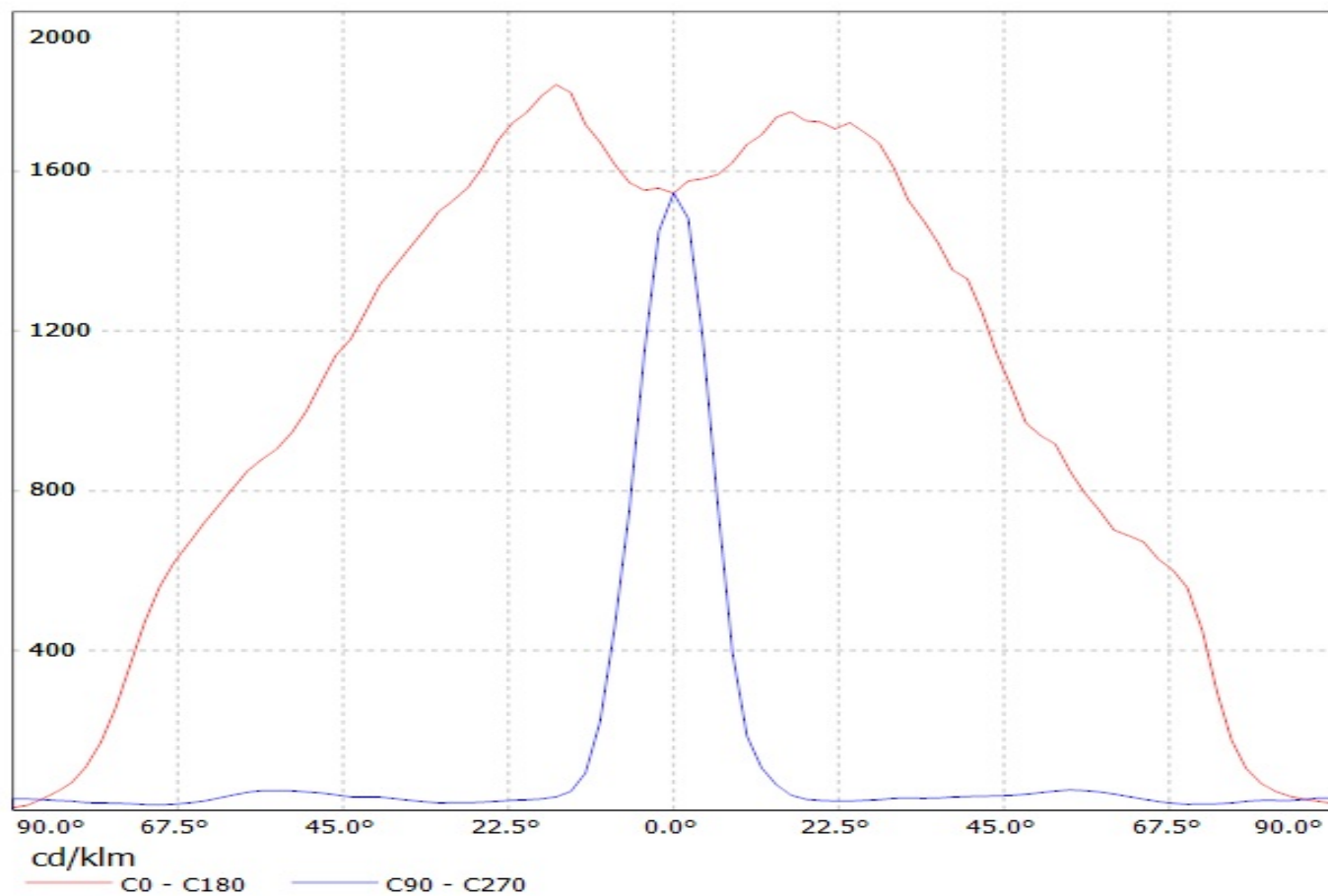
Luminaire: Ledil Oy CA12764&CA12838\_FLARE-MINI-A (Osram Square PC 88lm @ 250mA) Efficiency=94%  
Lamps: 1 x Osram Square PC 88lm @ 250mA



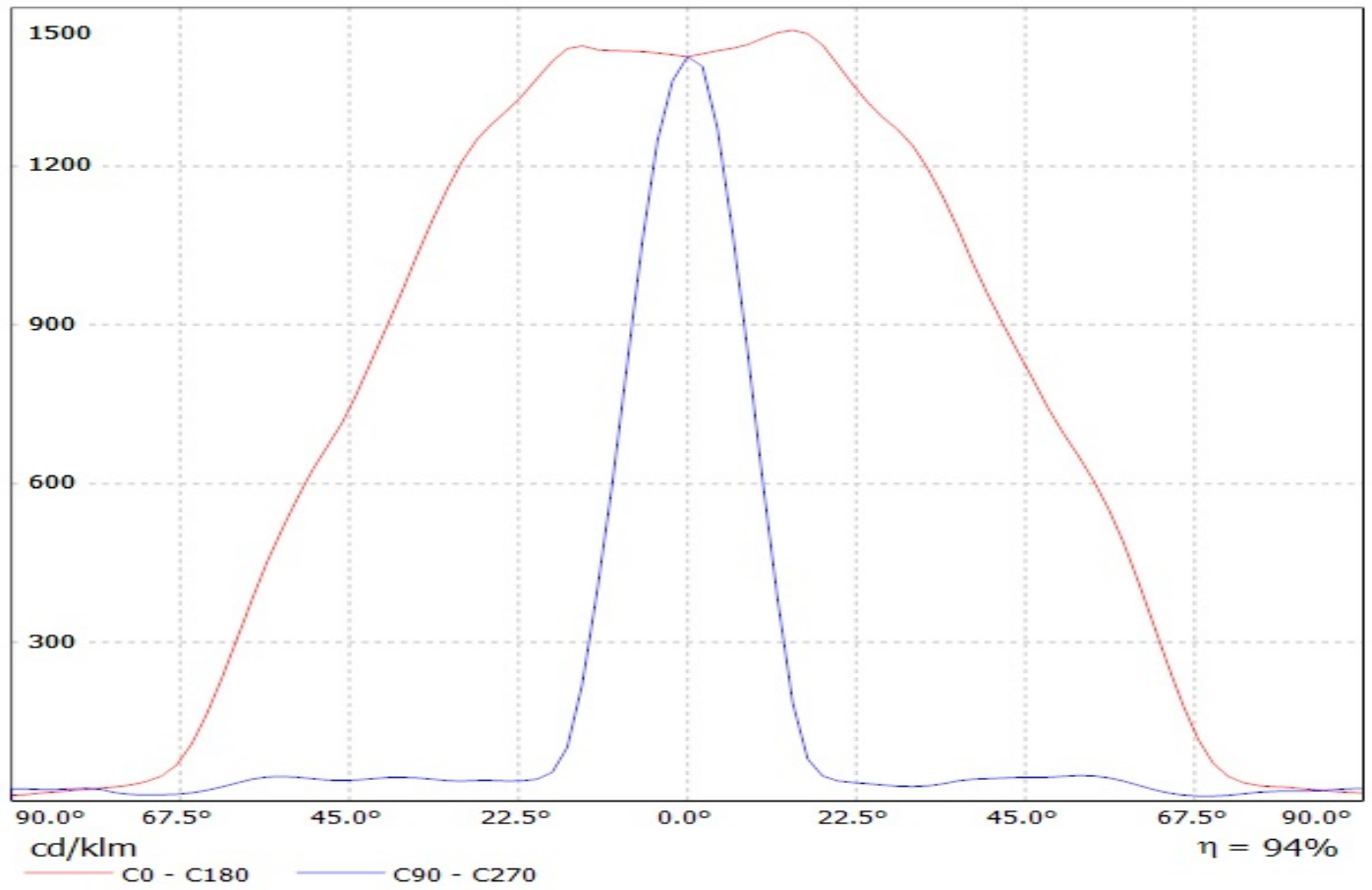
Luminaire: Ledil Oy CA12764/CA12838\_FLARE-MINI-A (Osram OSL80 84lm @ 250mA) Efficiency=93%  
Lamps: 1 x Osram OSL80 84lm @ 250mA



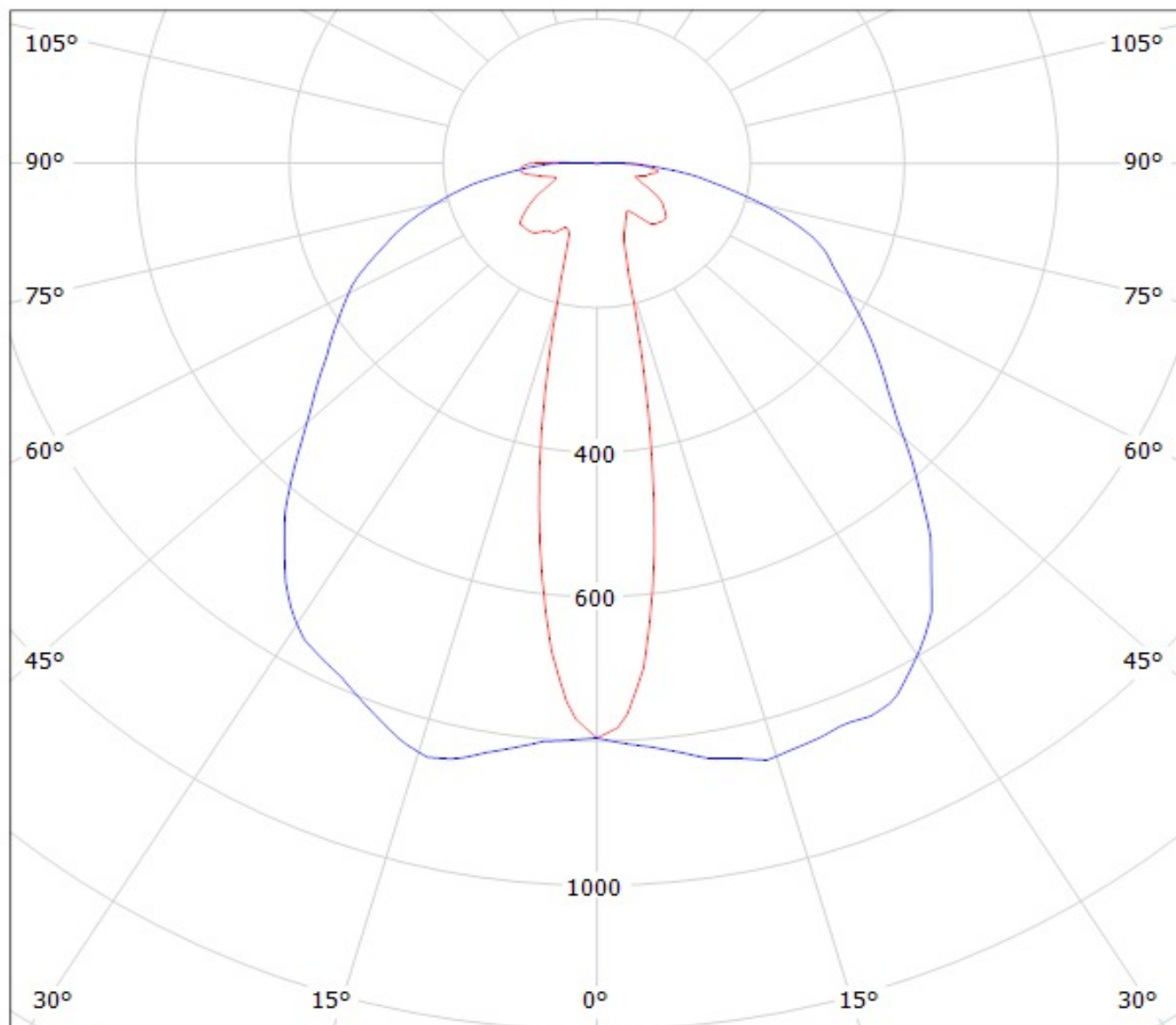
Luminaire: Ledil Oy C12763/C12837\_FLARE-MINI-A (Osram OSL150 95lm @ 250mA) Efficiency=93%  
Lamps: 1 x Osram OSL150 95lm @ 250mA



Luminaire: LEDil Oy CA12838\_FLARE-MINI-A-PIN\_(LH351Z)  
Lamps: 1 x Samsung LH351Z (90.14lm @ 250mA) CCT=6500K P=0.7W I=250mA



Luminaire: Ledil Oy CA12764&CA12838\_FLARE-MINI-A (Cree XP-E 76lm @ 250mA) Efficiency=94%  
Lamps: 1 x Cree XP-E 76lm @ 250mA

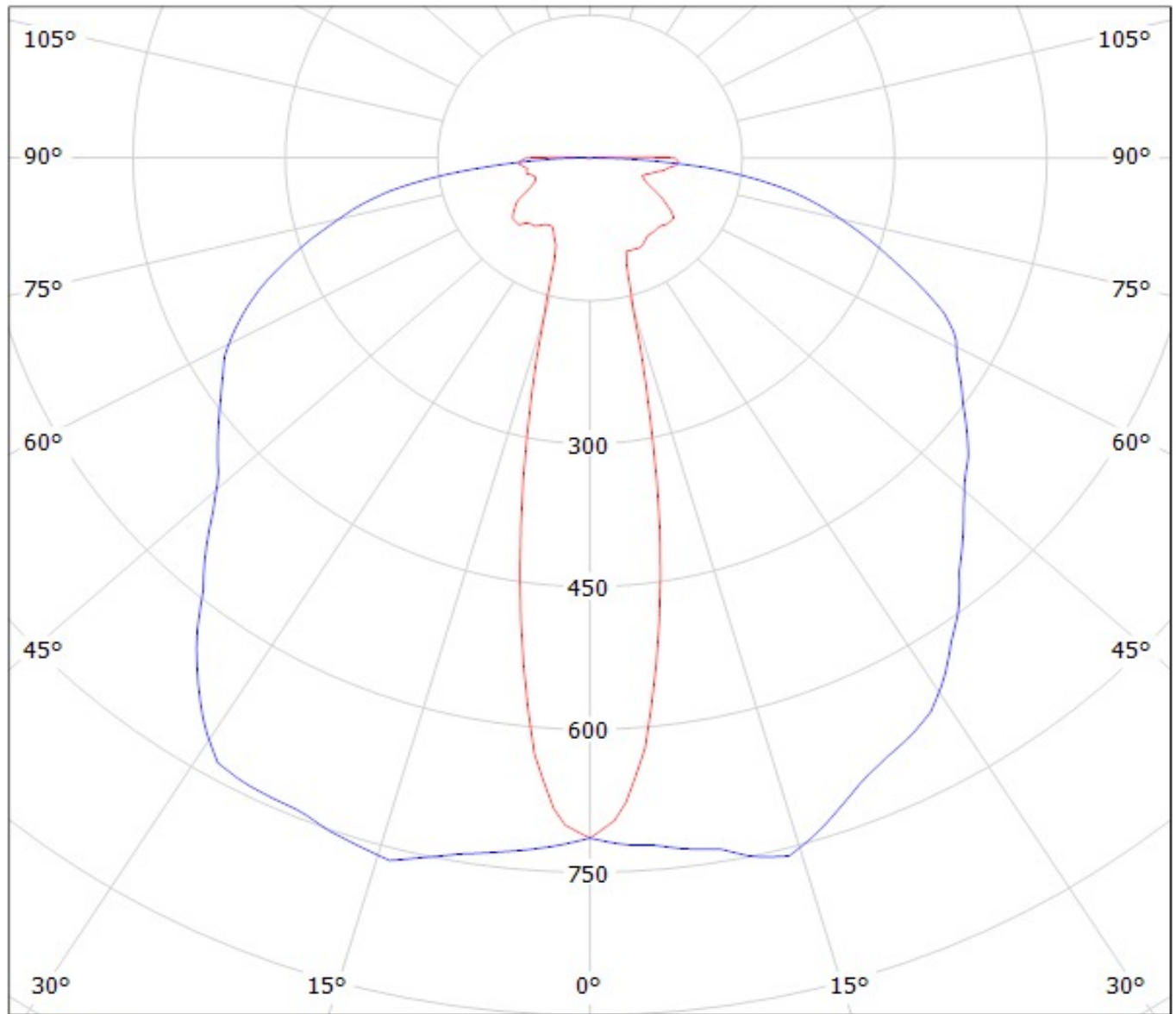


cd/klm

— C0 - C180

— C90 - C270

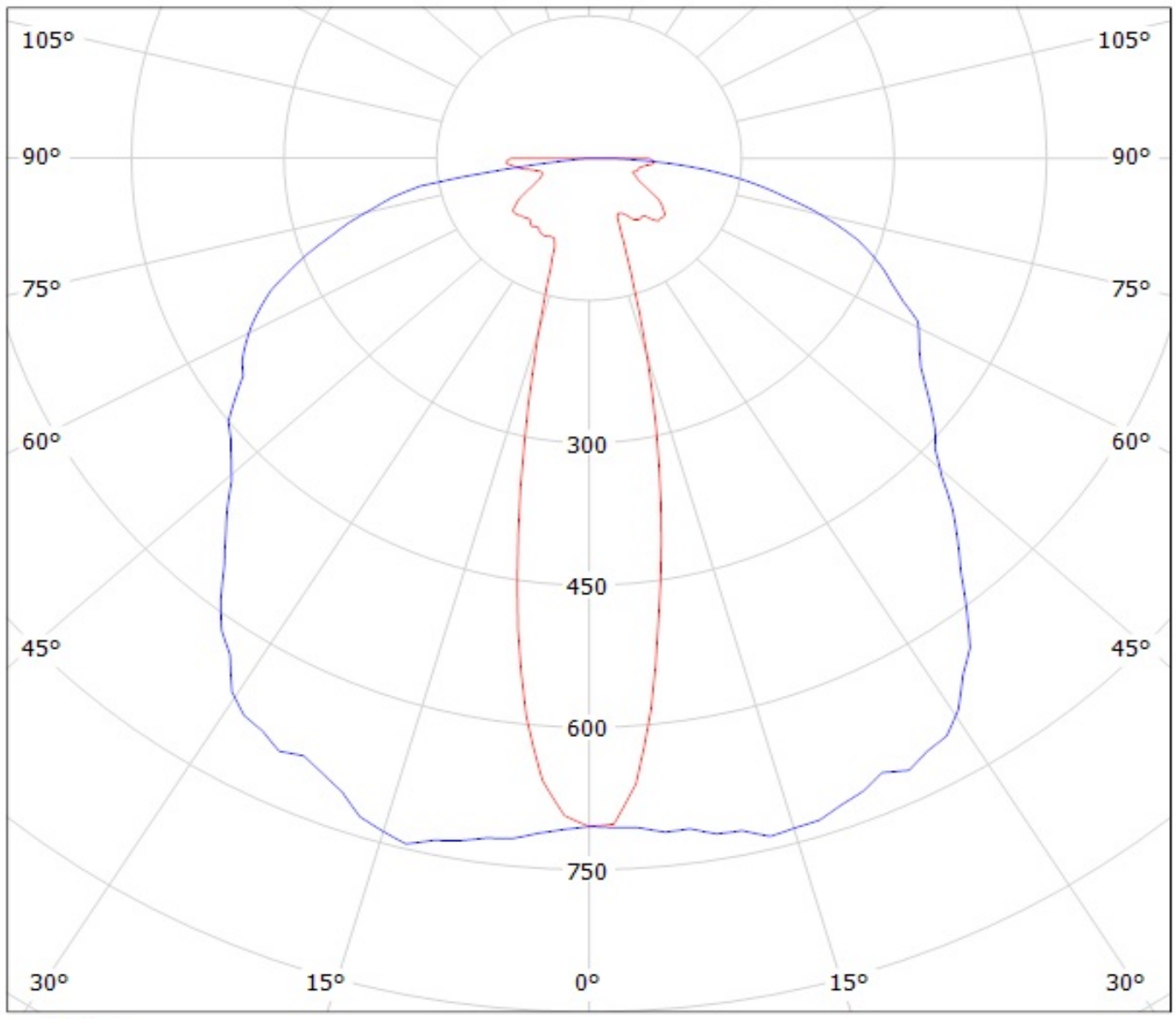
Luminaire: Ledil Oy CA12764&CA12838\_FLARE-MINI-A (Cree XB-D 94lm @ 250mA) Efficiency=94%  
Lamps: 1 x Cree XB-D 94lm @ 250mA



cd/klm

— C0 - C180 — C90 - C270

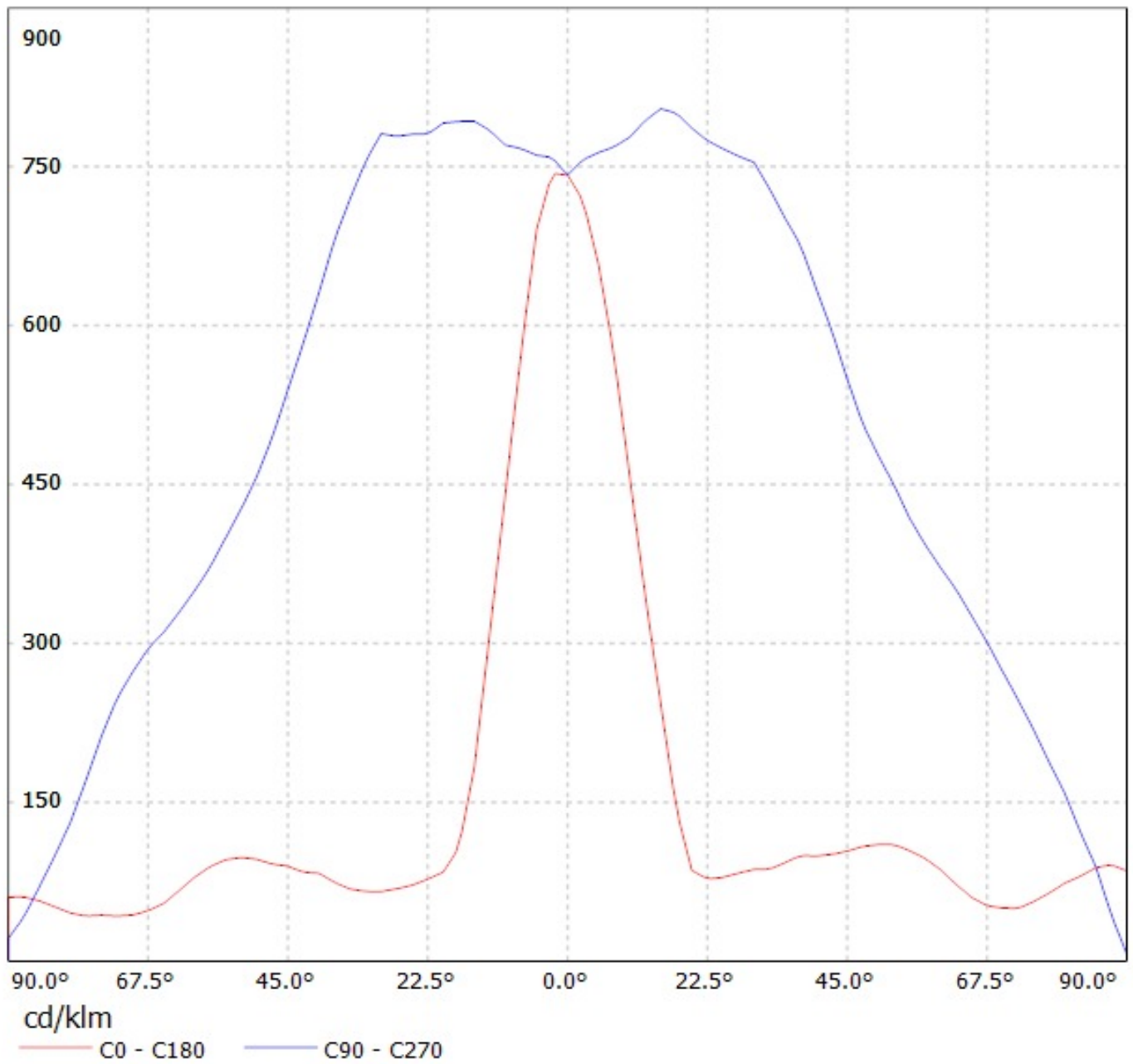
Luminaire: Ledil Oy CA12764/CA12838\_FLARE-MINI-A (Cree XT-E 86lm @ 250mA) Efficiency=94%  
Lamps: 1 x Cree XT-E 86lm @ 250mA



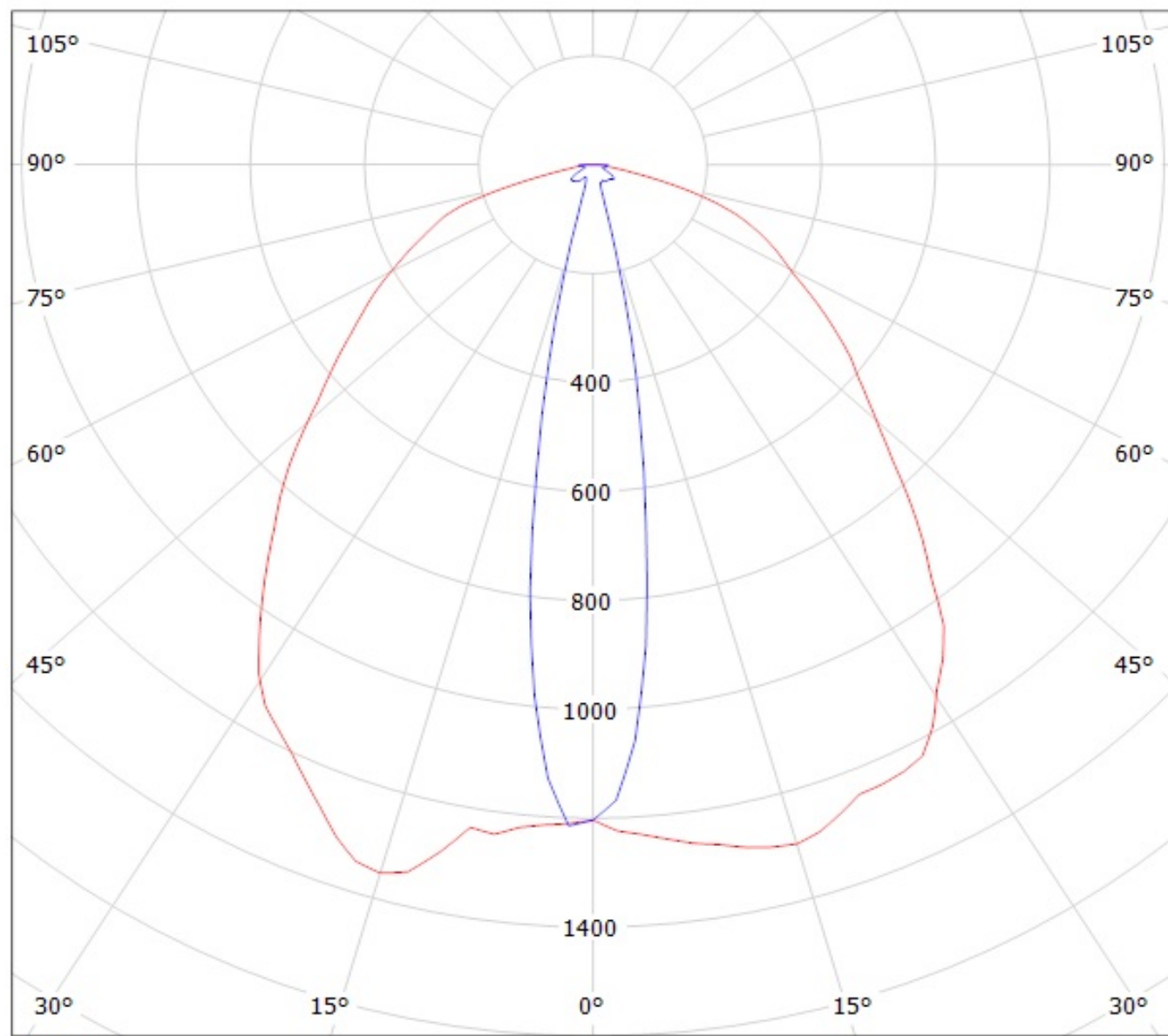
cd/klm  
— C0 - C180 — C90 - C270



Luminaire: Ledil Oy CA12764&CA12838\_FLARE-MINI-A (Cree XP-G 87lm @ 250mA) Efficiency=94%  
Lamps: 1 x Cree XP-G 87lm @ 250mA



Luminaire: Ledil Oy CA12838\_FLARE-MINI-A-PIN (CREE XP-G2 (99 lm @ 250 mA)) Efficiency=94%  
Lamps: 1 x CREE XP-G2 (99 lm @ 250 mA)

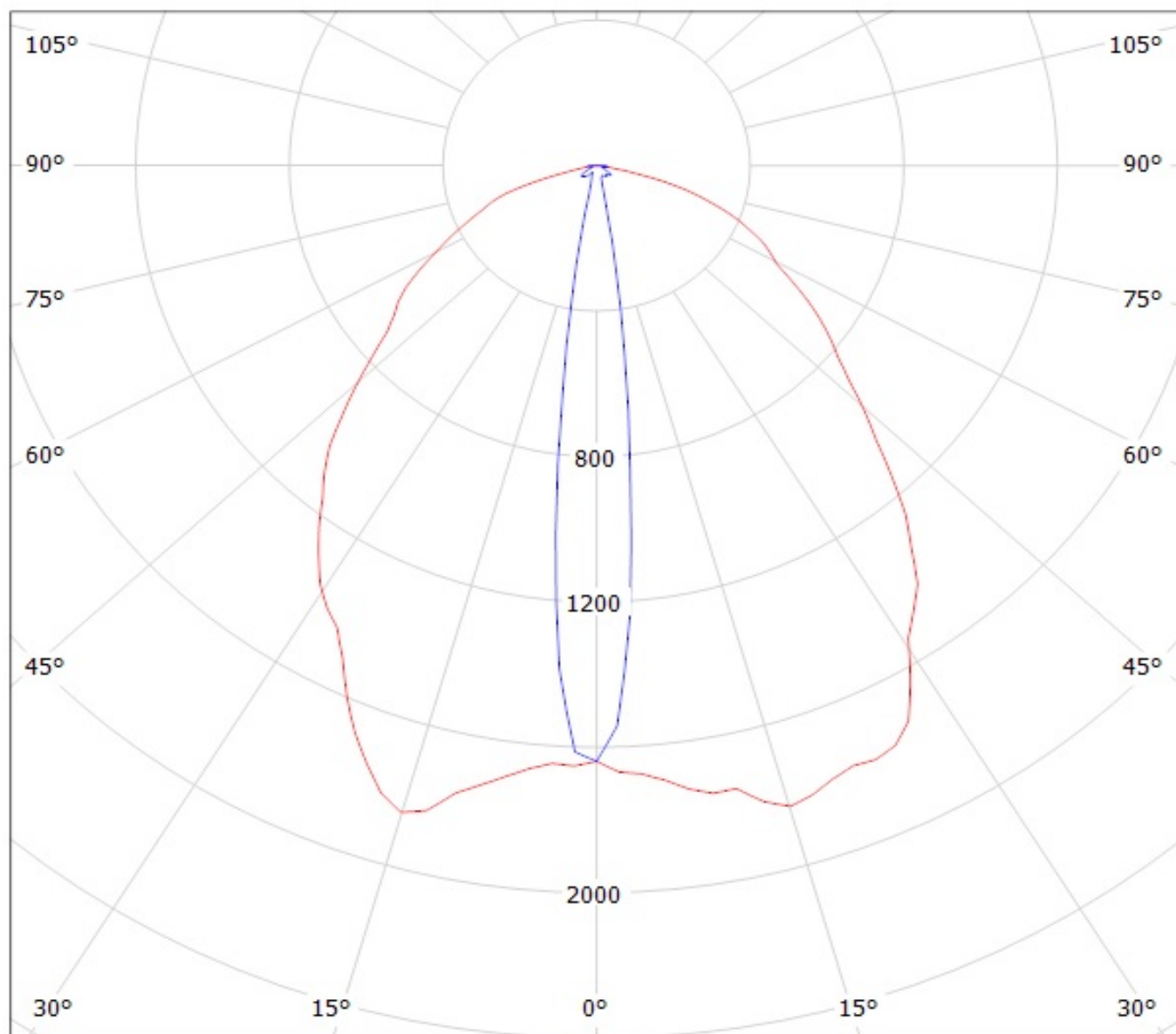


cd/klm

— C0 - C180

— C90 - C270

Luminaire: Ledil Oy CA12838\_FLARE-MINI-A-PIN (CREE XP-E2 (92 lm @ 250 mA)) Efficiency=94%  
Lamps: 1 x CREE XP-E2 (92 lm @ 250 mA)

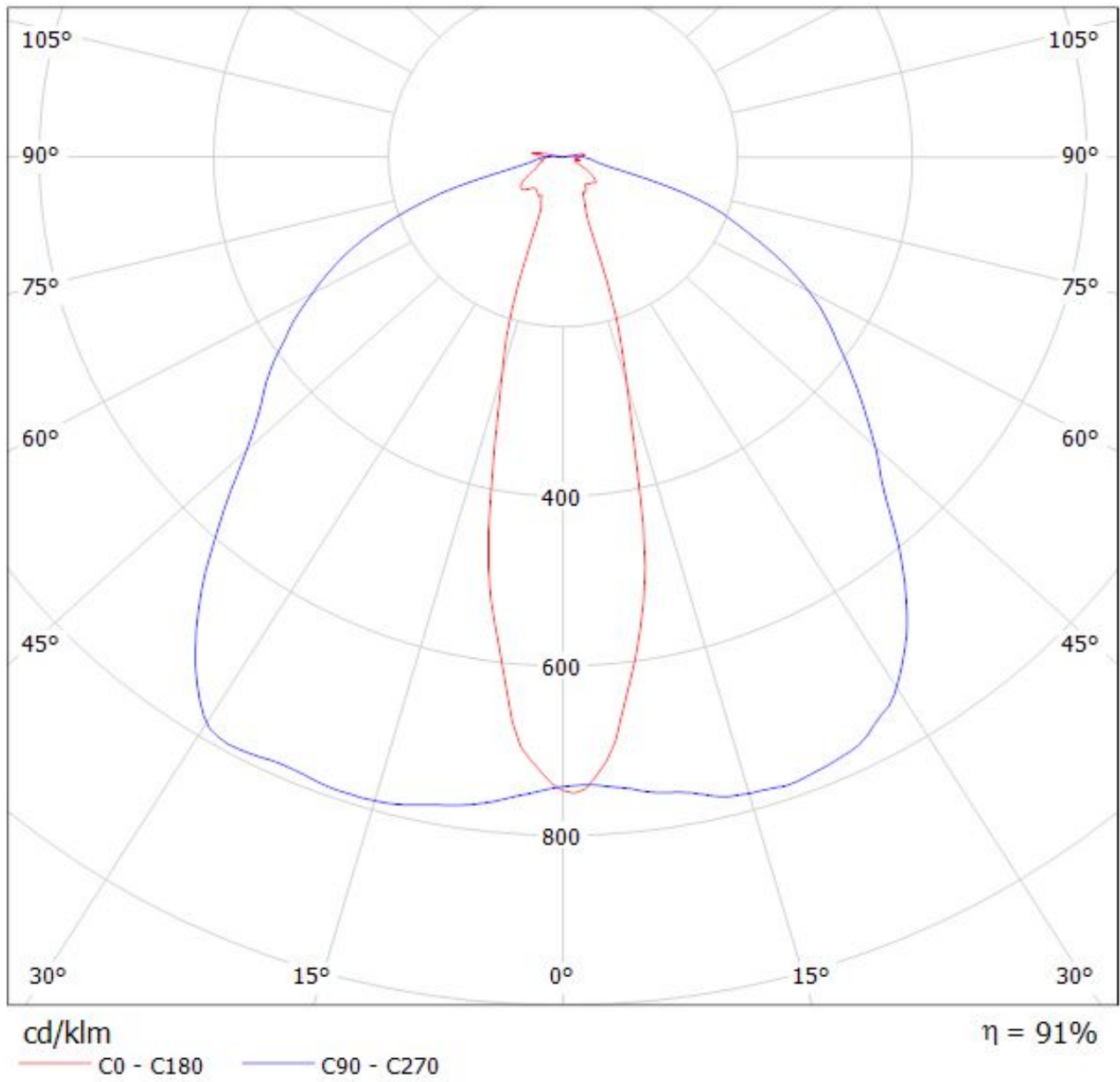


cd/klm

— C0 - C180

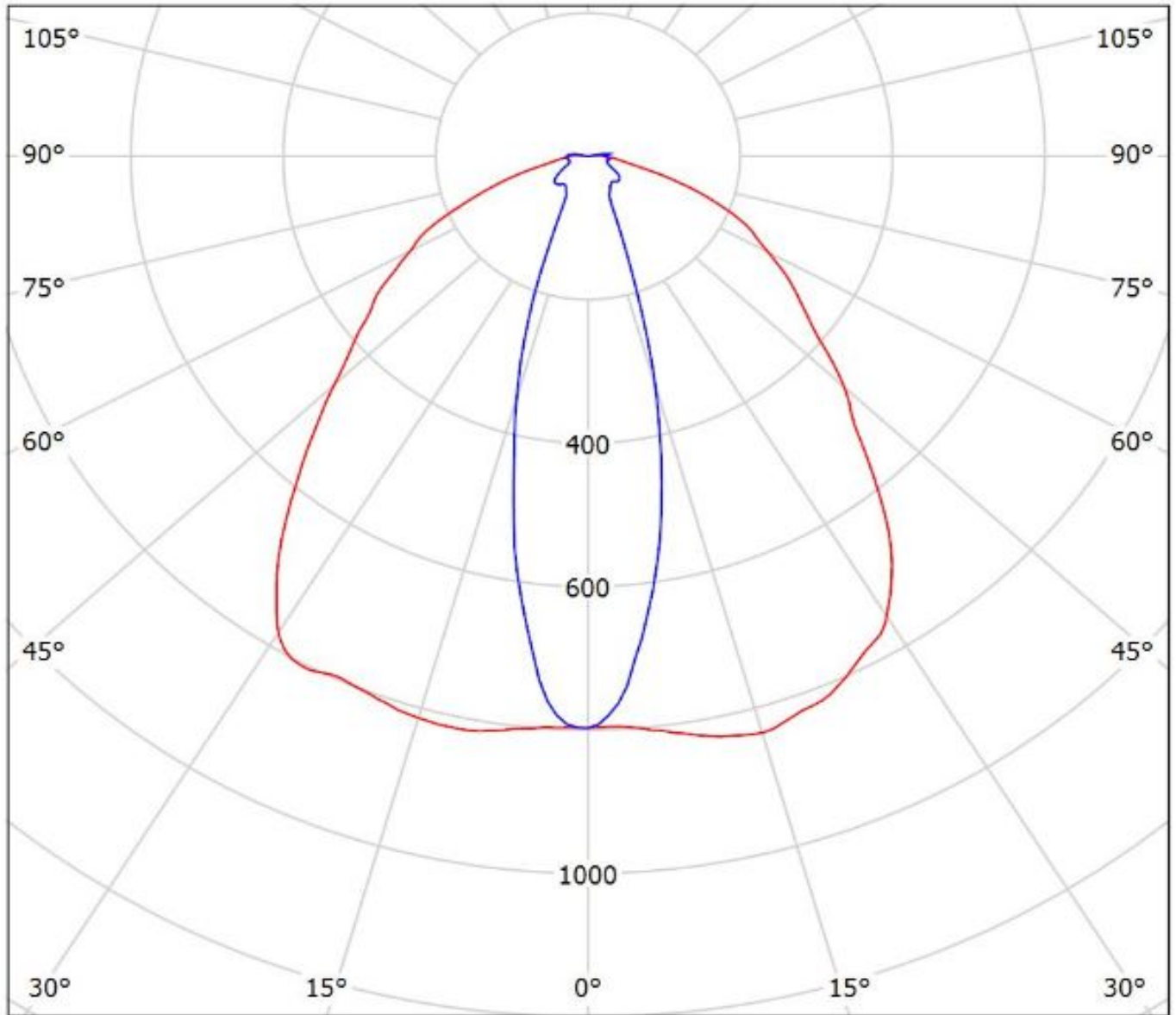
— C90 - C270

Luminaire: LEDiL Oy CA12838\_FLARE-MINI-A-PIN\_(XP-L) Eff.90.6%  
Lamps: 1 x Cree\_XP-L\_127.813lm@250mA\_P=0.73723W\_I=249.9mA



Luminaire: Ledil CA12838\_FLARE-MINI-A-PIN\_(XP-L2)

Lamps: 1 x Cree\_XP-L2\_(XPLWT-00-0000-000HU630G)\_115.505lm@250mA\_P=0.72165W\_I=0.25A

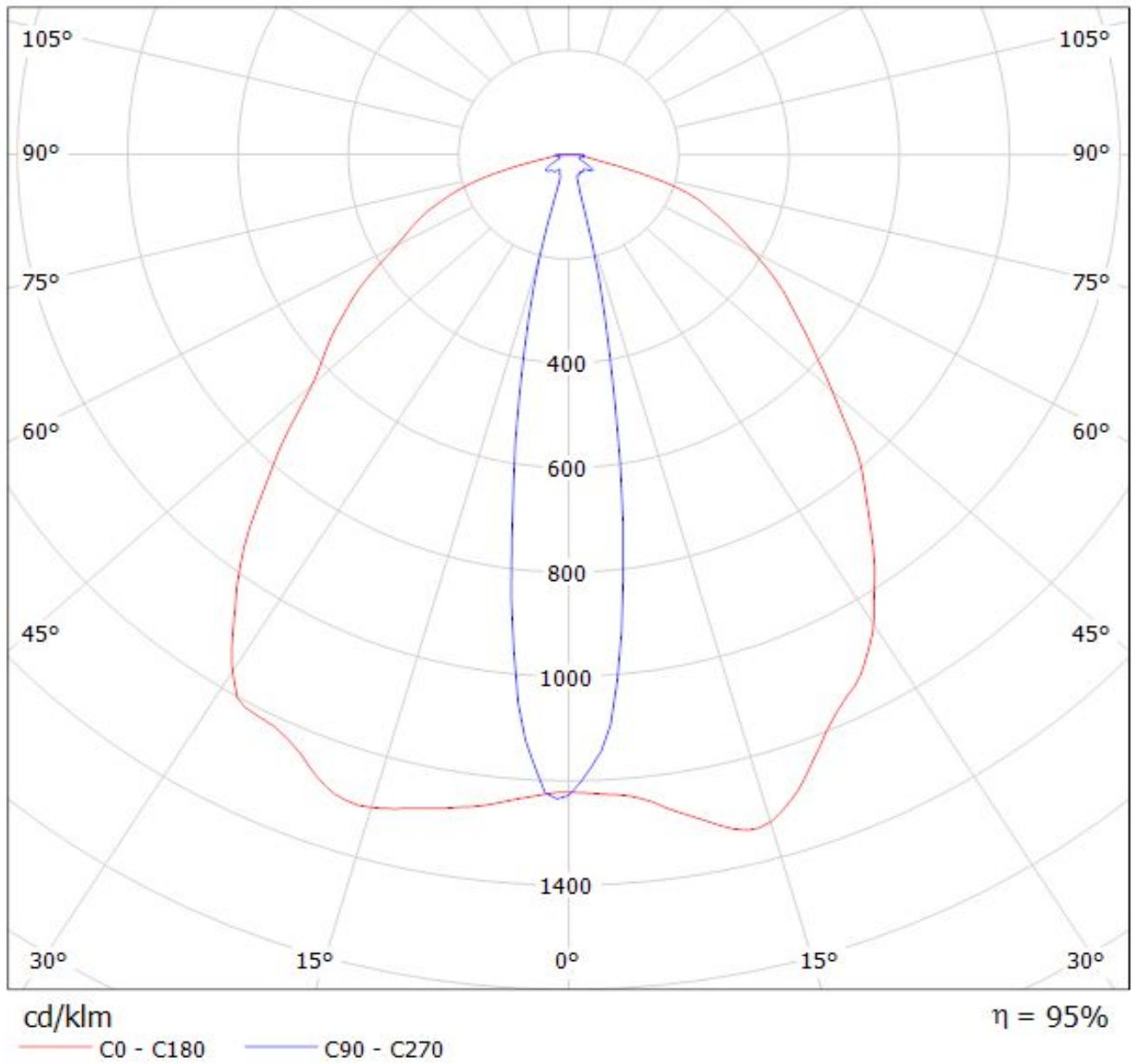


cd/klm

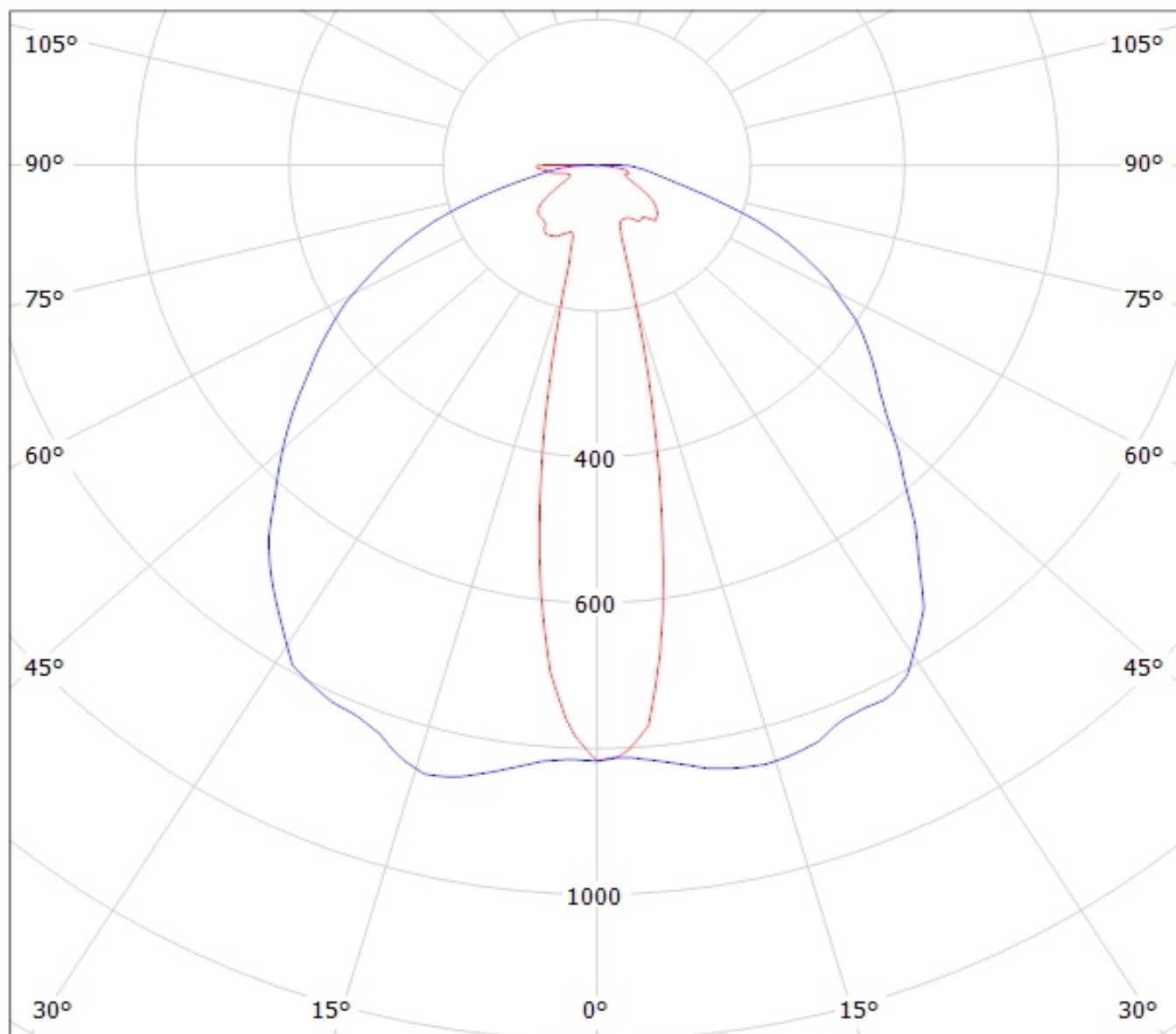
— C0 - C180    — C90 - C270

$\eta = 96\%$

Luminaire: LEDiL Oy CA12838\_FLARE-MINI-A-PIN\_(LG-3535-CERAMIC-GEN2) Eff.94%  
Lamps: 1 x LG-3535-CERAMIC-GEN2\_116.256lm@250mA\_P=0.754973W\_CCT=6235K\_I=249.9mA



Luminaire: Ledil Oy CA12764/CA12838\_FLARE-MINI-A (Luxeon Rebel ES 92lm @ 250mA) Efficiency=94%  
Lamps: 1 x Luxeon Rebel ES 92lm @ 250mA



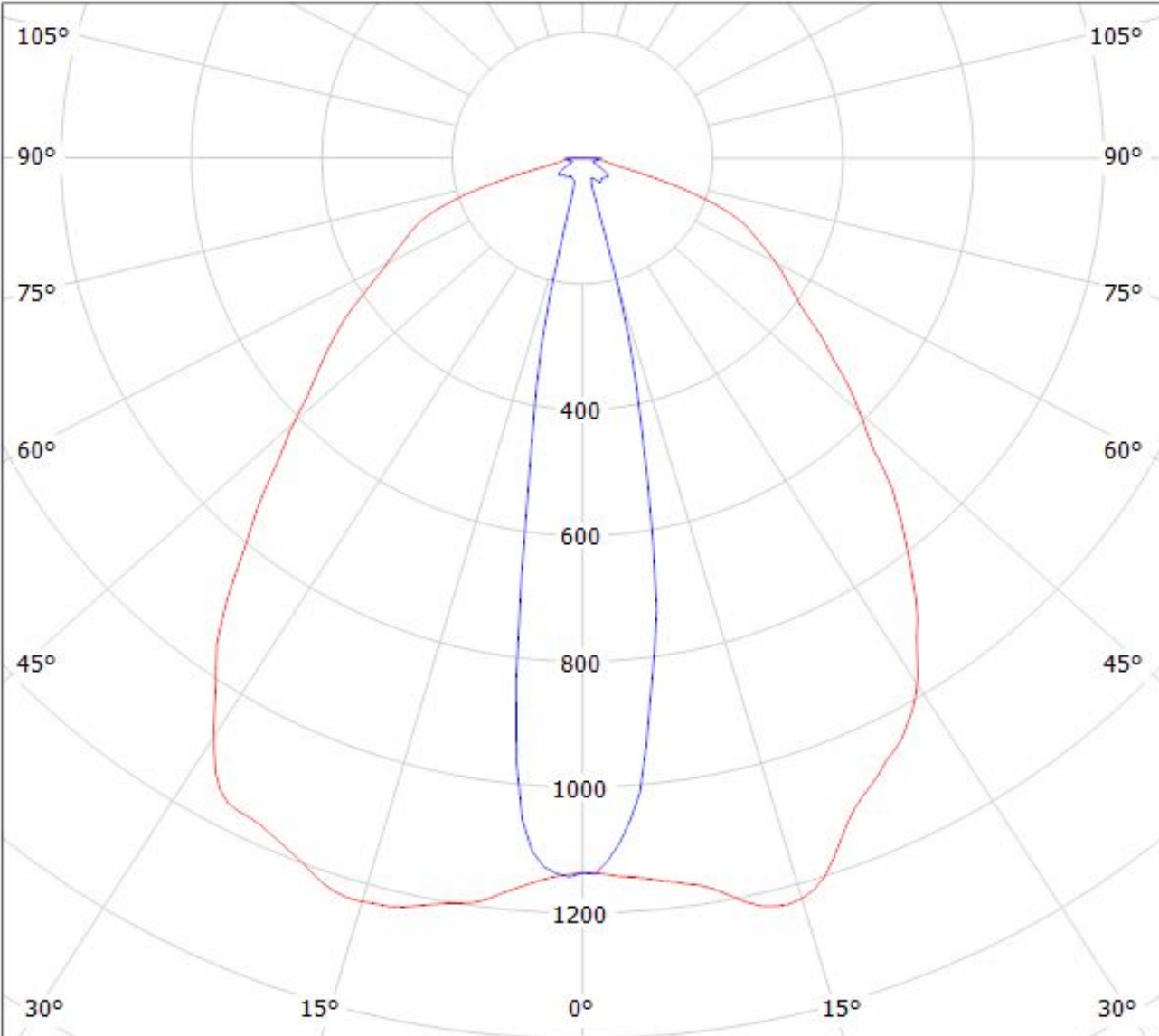
cd/klm

— C0 - C180

— C90 - C270

Luminaire: LEDiL Oy CA12838\_FLARE-MINI-A-PIN\_(LUXEON\_T)\_1 Eff.92.5%

Lamps: 1 x LUXEON T (74lm@250mA)



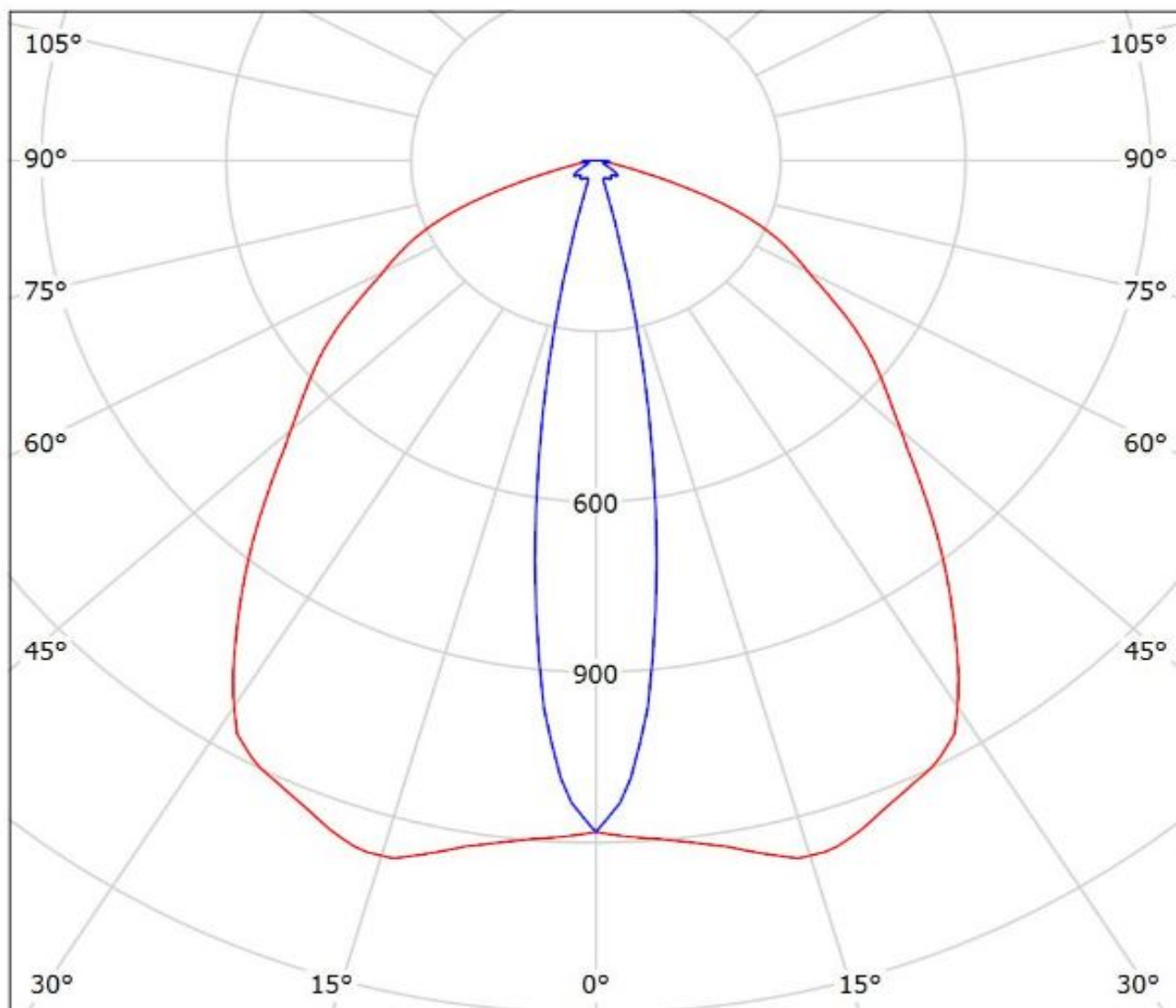
cd/klm

— C0 - C180    — C90 - C270

$\eta = 92\%$



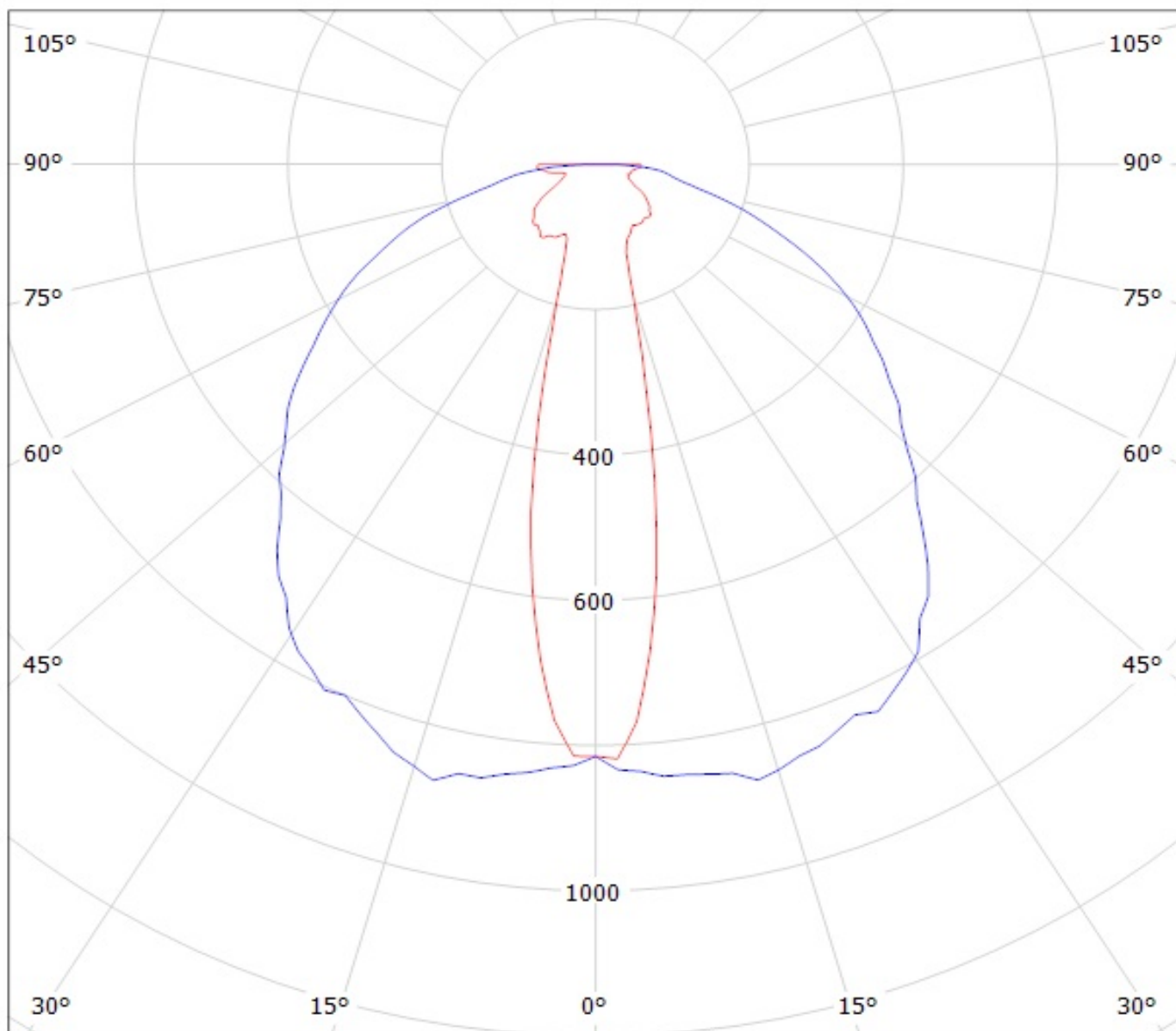
Luminaire: Ledil Oy CA12838\_FLARE-MINI-A-PIN\_(Luxeon\_TX)  
Lamps: 1 x Luxeon TX (77.6lm @ 250mA) P=0.7W I=250mA



cd/klm  
— C0 - C180 — C90 - C270

η = 95%

Luminaire: Ledil Oy CA12764&CA12838\_FLARE-MINI-A (Nichia NCS19 95lm @ 250mA) Efficiency=94%  
Lamps: 1 x Nichia NCS19 95lm @ 250mA

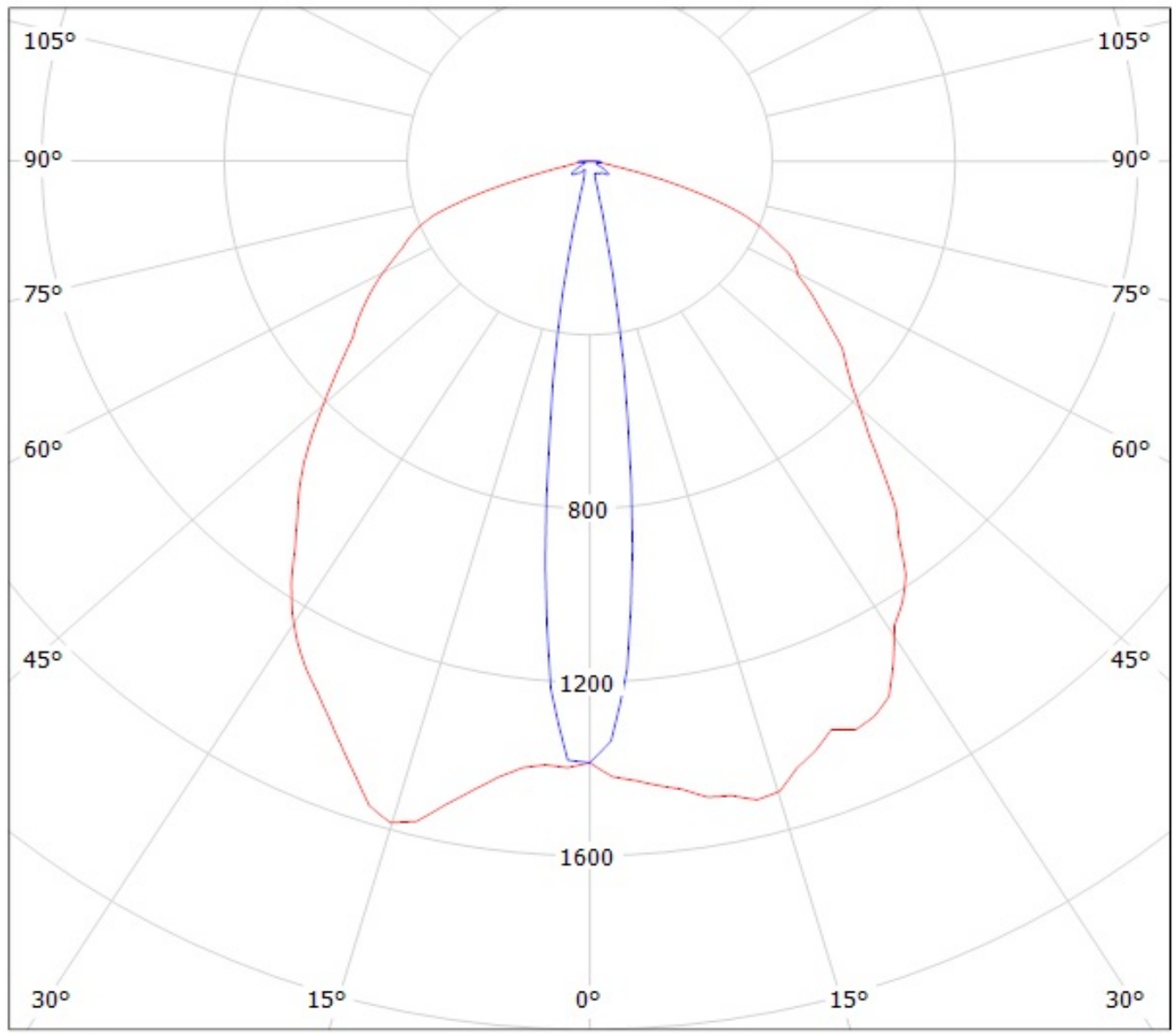


cd/klm

— C0 - C180

— C90 - C270

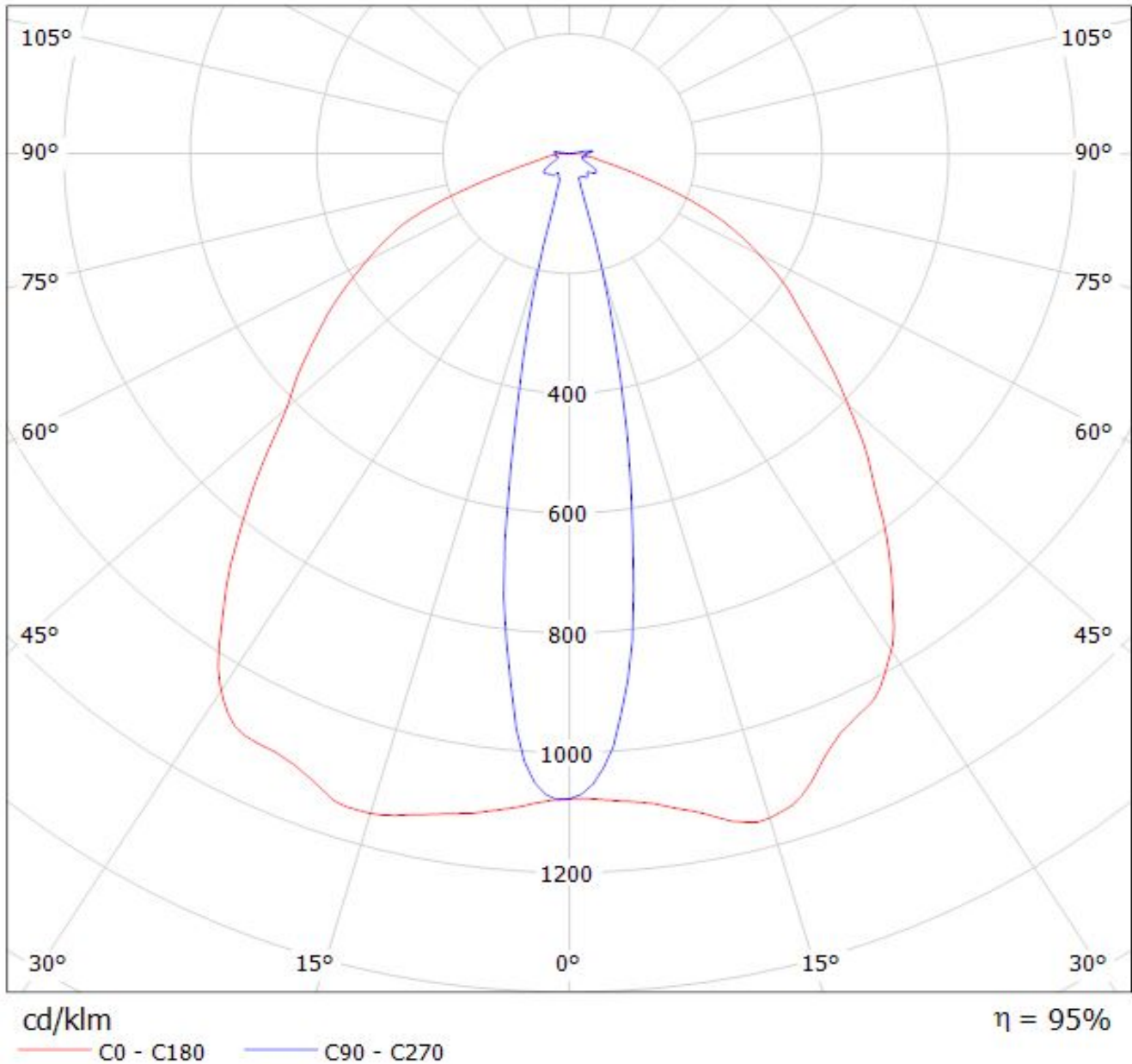
Luminaire: Ledil Oy CA12838\_Flare\_Mini-A-Pin\_(NCSxx19B) Efficiency=94%  
Lamps: 1 x Nichia NCSxx19B (NCSL119BE) 88.1lm @ 250mA CCT=3000K P=0.8W I=250mA



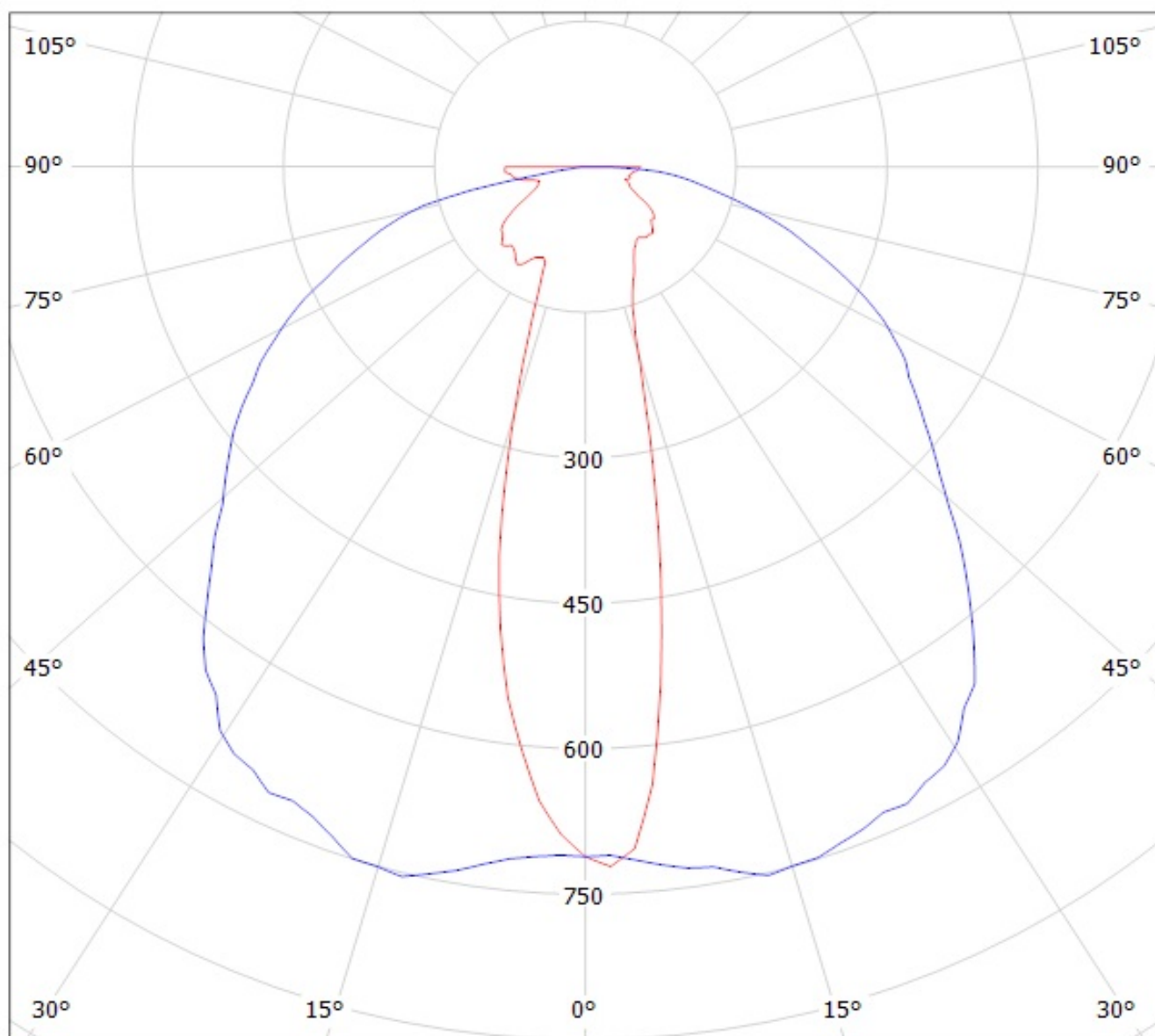
cd/klm

— C0 - C180    — C90 - C270

Luminaire: LEDiL Oy CA12838\_FLARE-MINI-A-PIN\_(NVSL219CE)  
Lamps: 1 x Nichia\_NVSL219CE\_101.227lm@250mA\_P=0.713404W\_I=0.25A



Luminaire: Ledil Oy CA12764&CA12838\_FLARE-MINI-A (Osram Square PC 88lm @ 250mA) Efficiency=94%  
Lamps: 1 x Osram Square PC 88lm @ 250mA

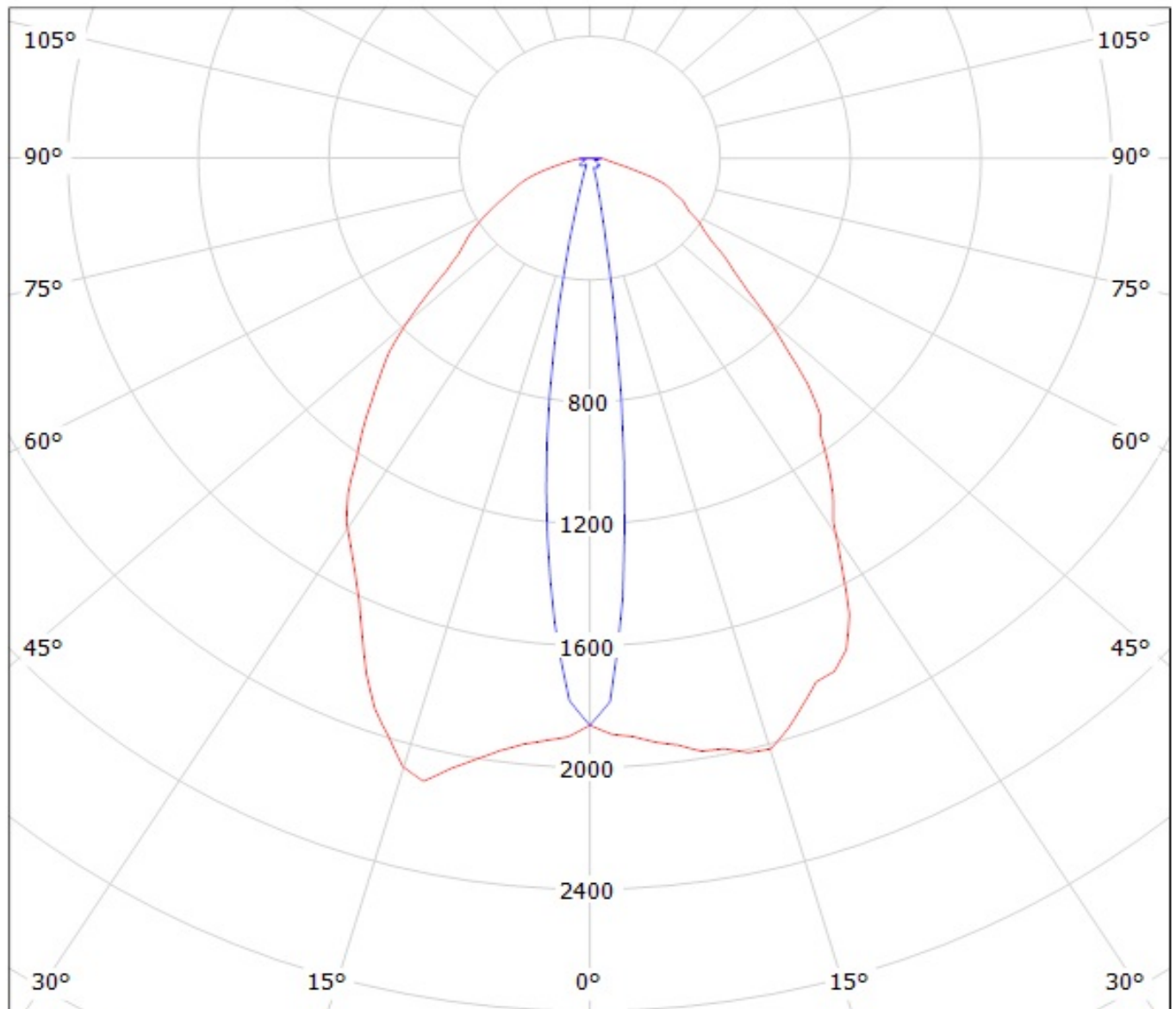


cd/klm

— C0 - C180

— C90 - C270

Luminaire: Ledil Oy CA12764/CA12838\_FLARE-MINI-A (Osram OSL80 84lm @ 250mA) Efficiency=93%  
Lamps: 1 x Osram OSL80 84lm @ 250mA

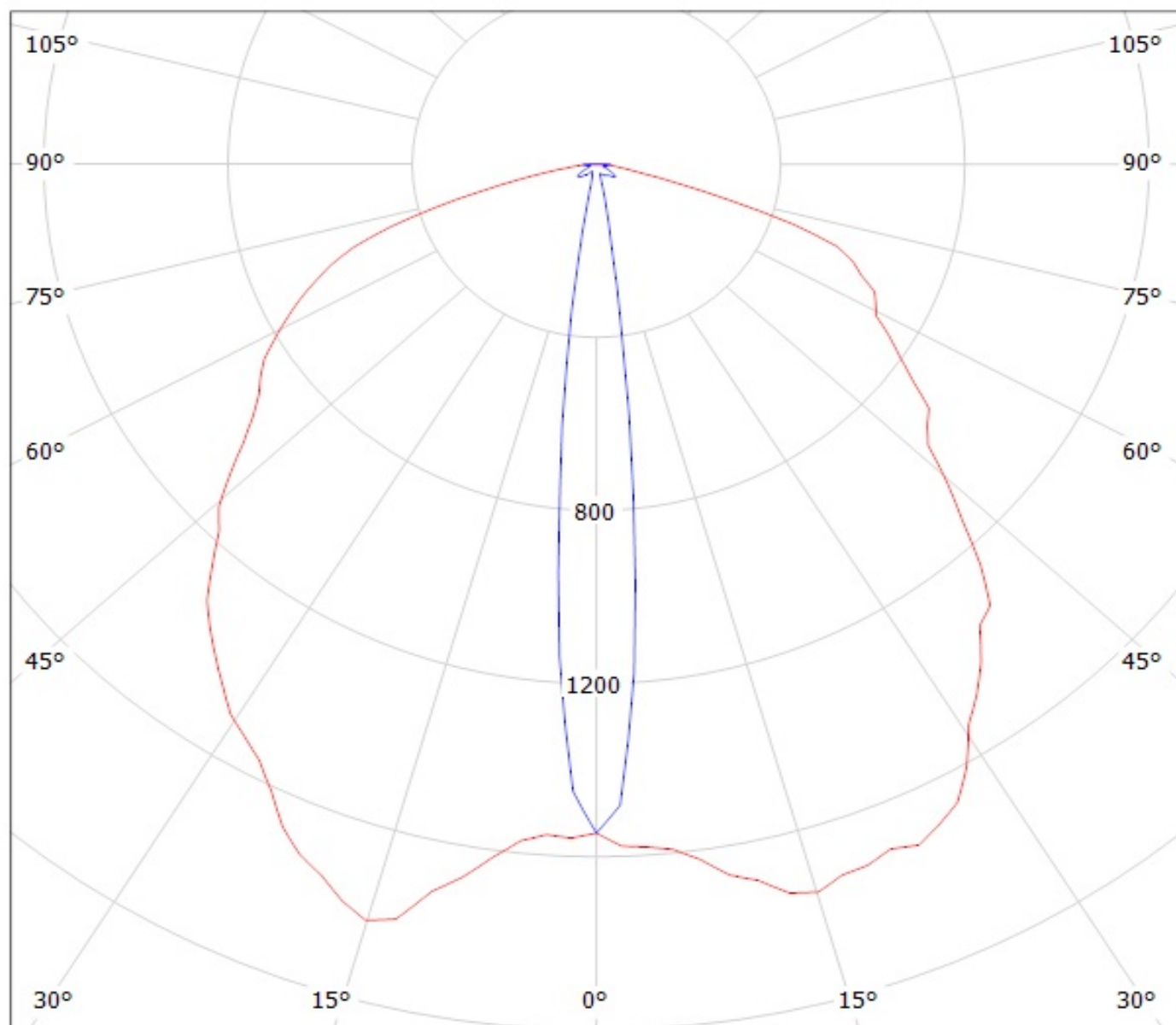


cd/klm

— C0 - C180

— C90 - C270

Luminaire: Ledil Oy C12763/C12837\_FLARE-MINI-A (Osram OSL150 95lm @ 250mA) Efficiency=93%  
Lamps: 1 x Osram OSL150 95lm @ 250mA

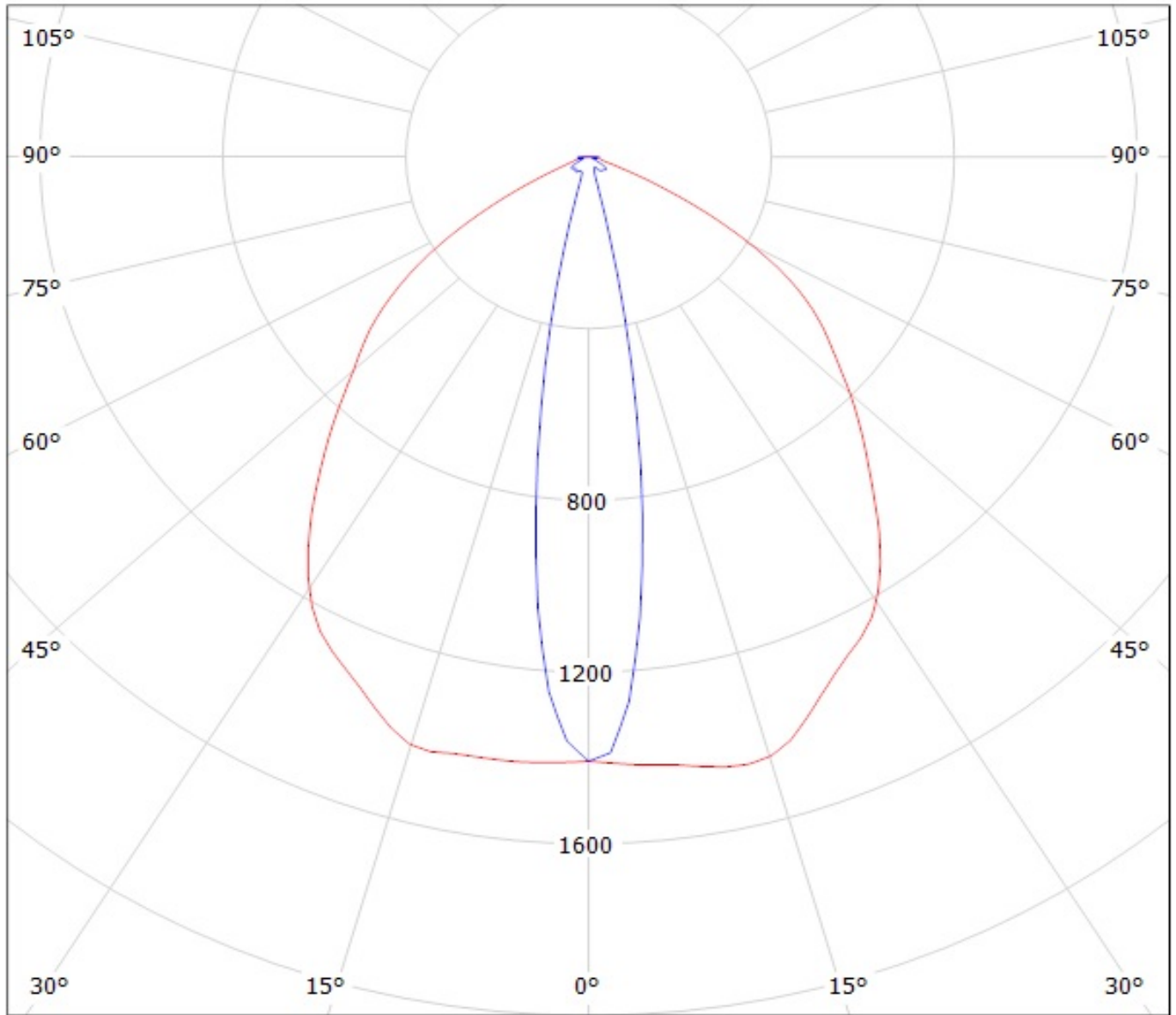


cd/klm

— C0 - C180    — C90 - C270

Luminaire: LEDil Oy CA12838\_FLARE-MINI-A-PIN\_(LH351Z)

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



cd/klm

— C0 - C180

— C90 - C270

$\eta = 94\%$



**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.**