

# PRODUCT DATASHEET

## Mirella series

last update 18/7/2014

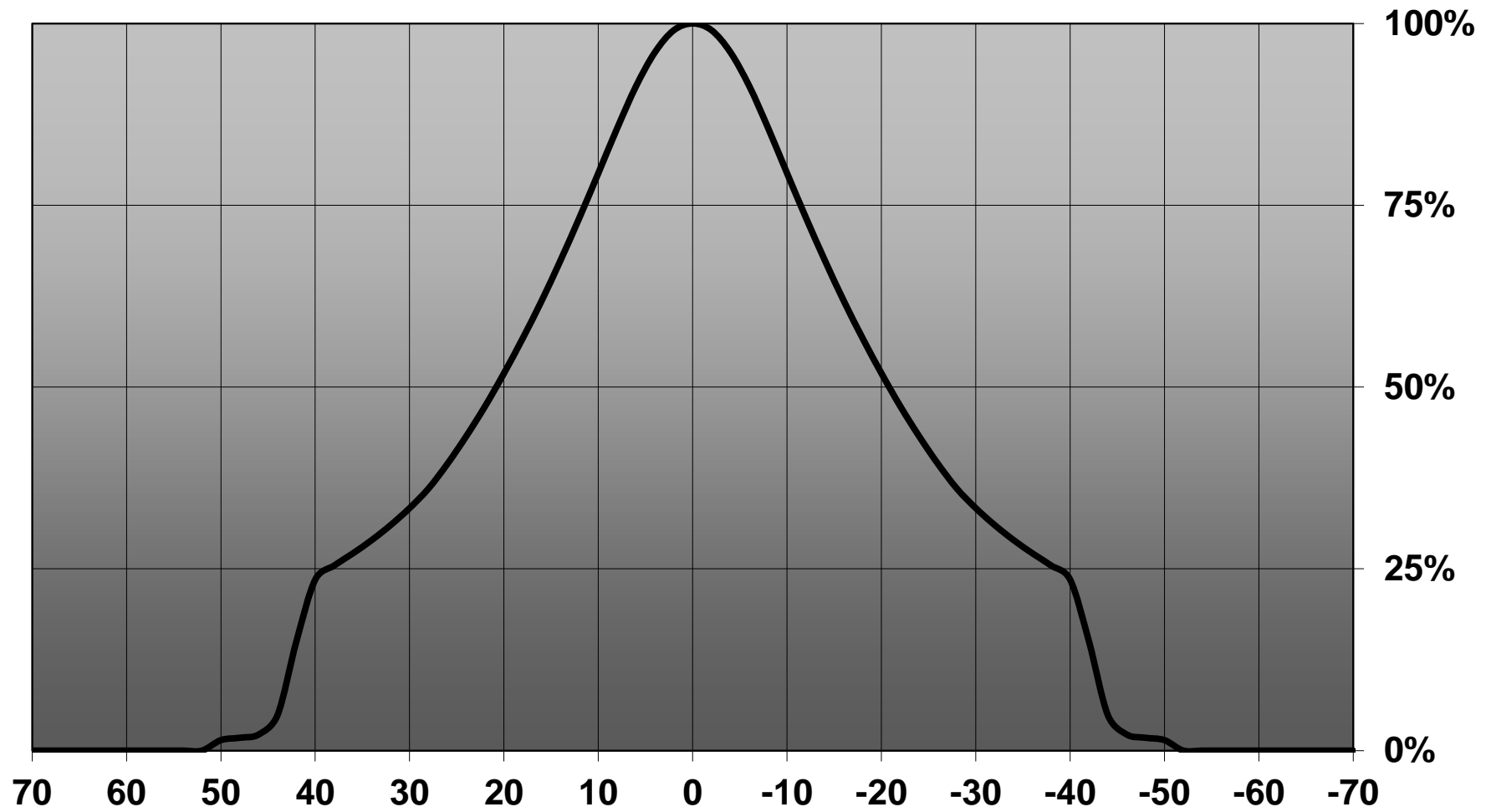
## DETAILS

Product Number	C12482_MIRELLA-50-W-PIN
Family	Mirella
Type	Reflector
Color	metal
Diameter	49,9 mm
Height	23,9 mm
Style	round
Optic Material	PC
Holder Material	
Fastening	pin
Status	production ready
ROHS Compliant	Yes
Date Updated	18/07/2014

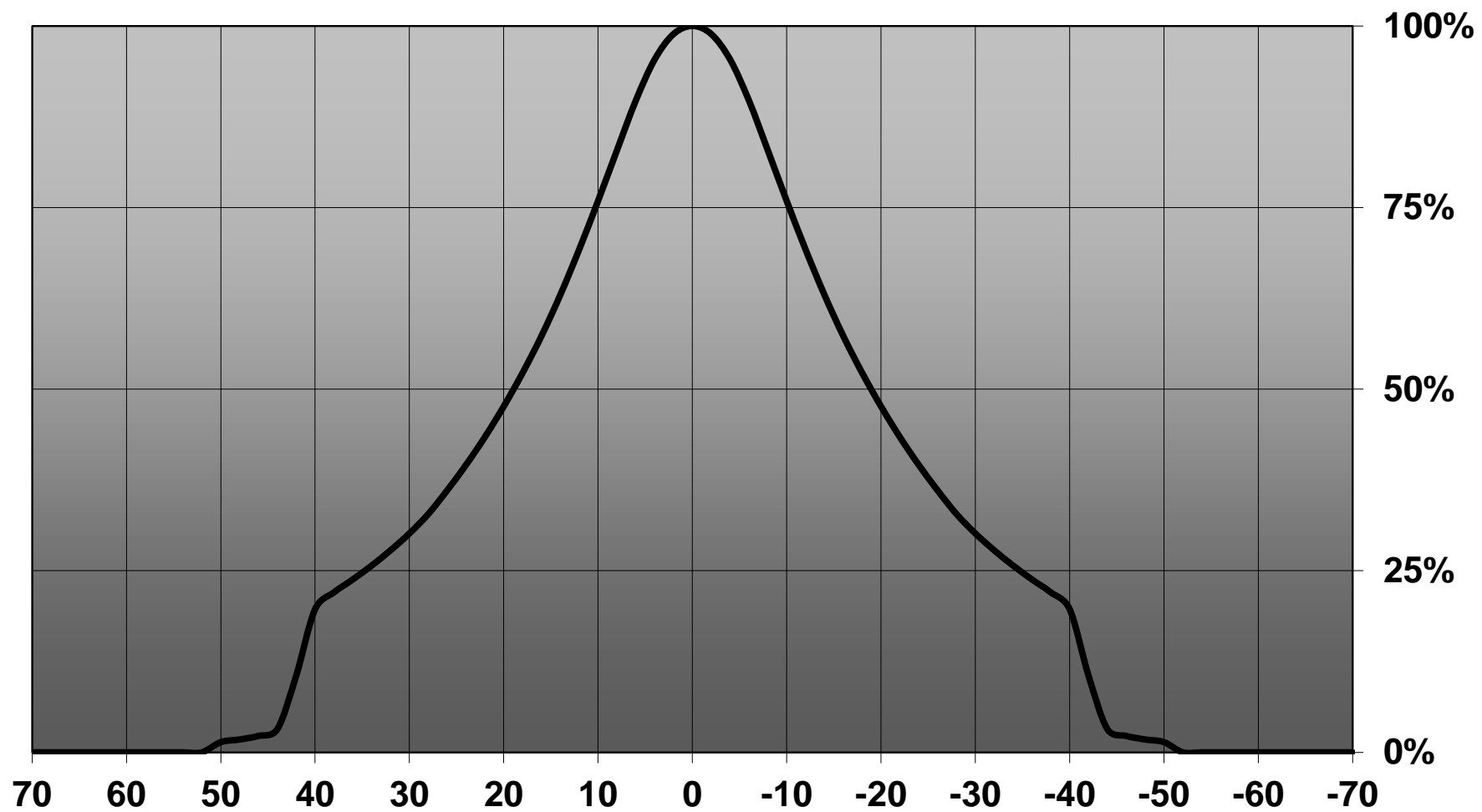
## OPTICAL PROPERTIES

LED	Viewing Angle	Light Beam	Efficiency	cd/lm	Connector
XM-L	32 deg	Wide	88 %	1.630	-
XT-E	31 deg	Wide	84 %	1.200	-
XP-G	34 deg	Wide	86 %	1.700	-
XM-L2	39 deg	Wide	89 %	1.500	-
XP-G2	36 deg	Wide	88 %	1.700	-
MHB-A	45 deg	Wide	87 %	1.370	-
XHP50	44 deg	Wide	89 %	1.300	-
XP-L HI	35 deg	Wide	87 %	1.700	-
LUXEON A	30 deg	Wide	86 %	1.670	-
LUXEON M/MX	39 deg	Wide	87 %	1.400	-
LUXEON MZ	32 deg	Wide	87 %	2.000	-
LUXEON 5258	sim: 41	Wide	sim: 91 %	sim: 1.500	-
LUXEON 5050	38 deg	Wide	89 %	1.500	-
NS9x383	39 deg	Wide	89 %	1.500	-
NV4x144A	43 deg	Wide	87 %	1.300	-
Oslon Square EC	32 deg	Wide	85 %	1.760	-
Duris S8	39 deg	Wide	88 %	1.600	-
Duris P10	sim: 45	Wide	sim: 91 %	sim: 1.320	-
LH508A	38 deg	Wide	87 %	1.500	-
Z8Y22P	sim: 43	Wide	sim: 89 %	sim: 1.380	-

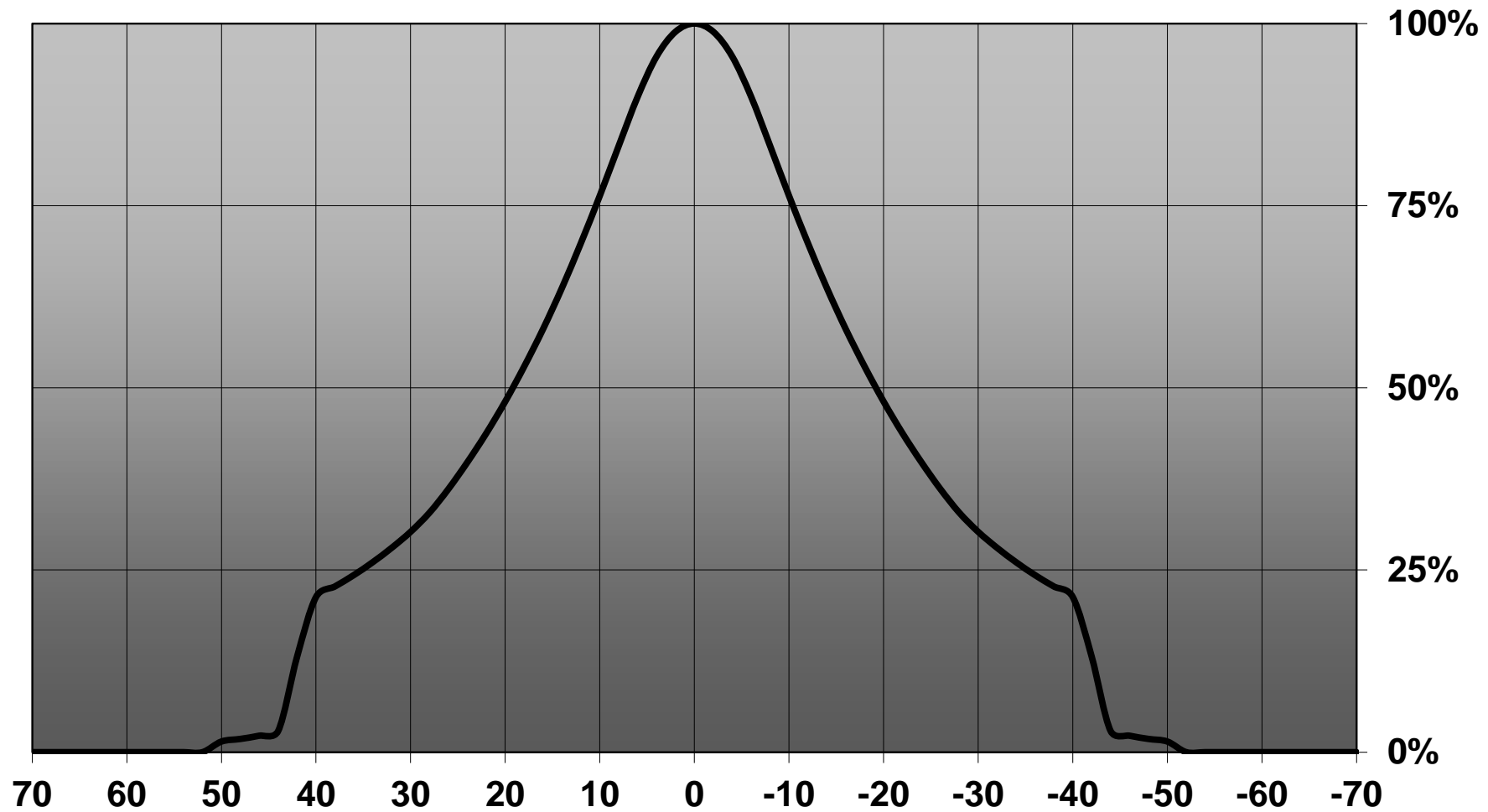
Relative intensity of C12482\_Mirella\_50-W-PIN\_(XM-L)



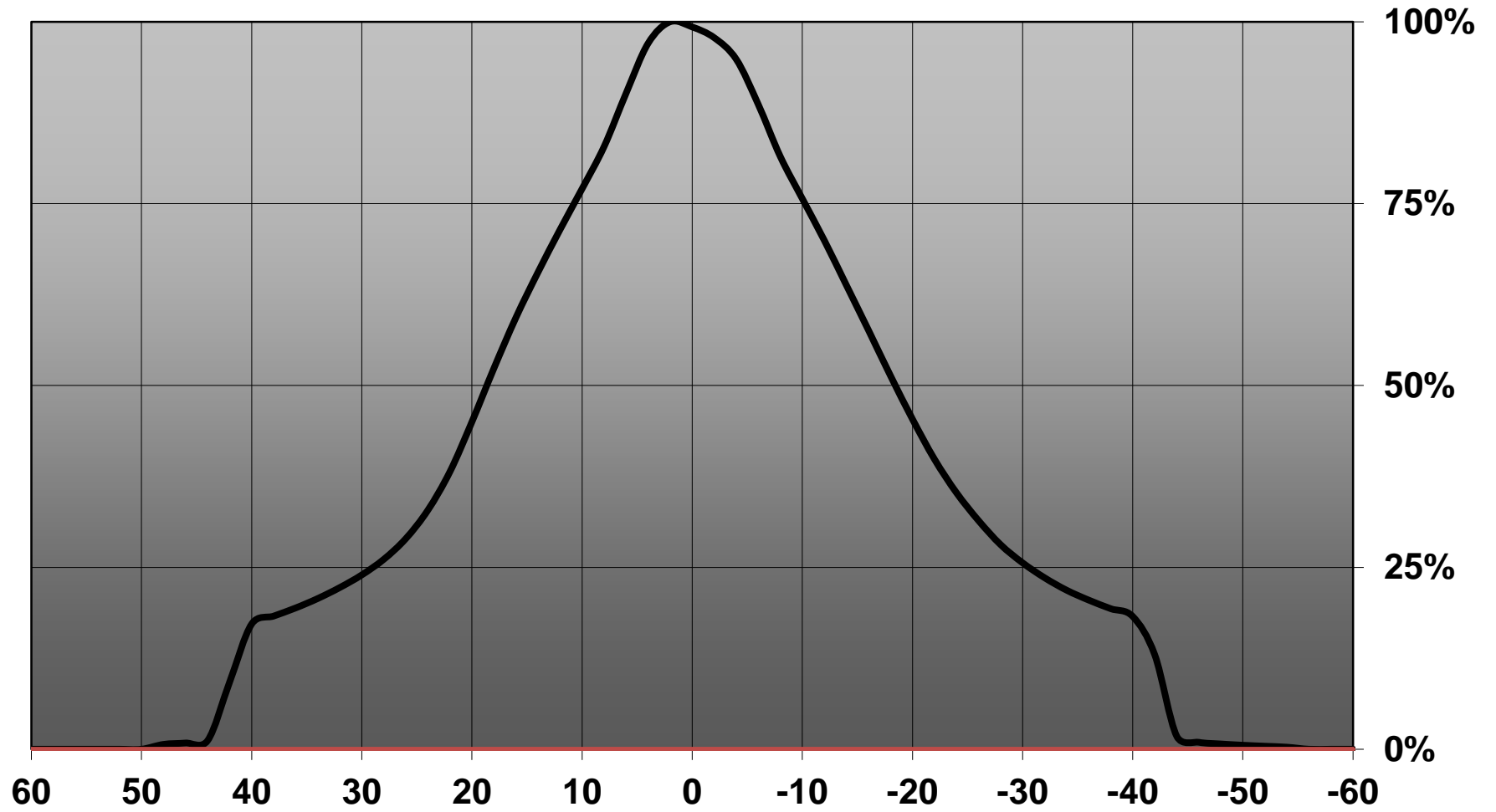
Relative intensity of C12482\_Mirella\_50-W-PIN\_(XT-E)



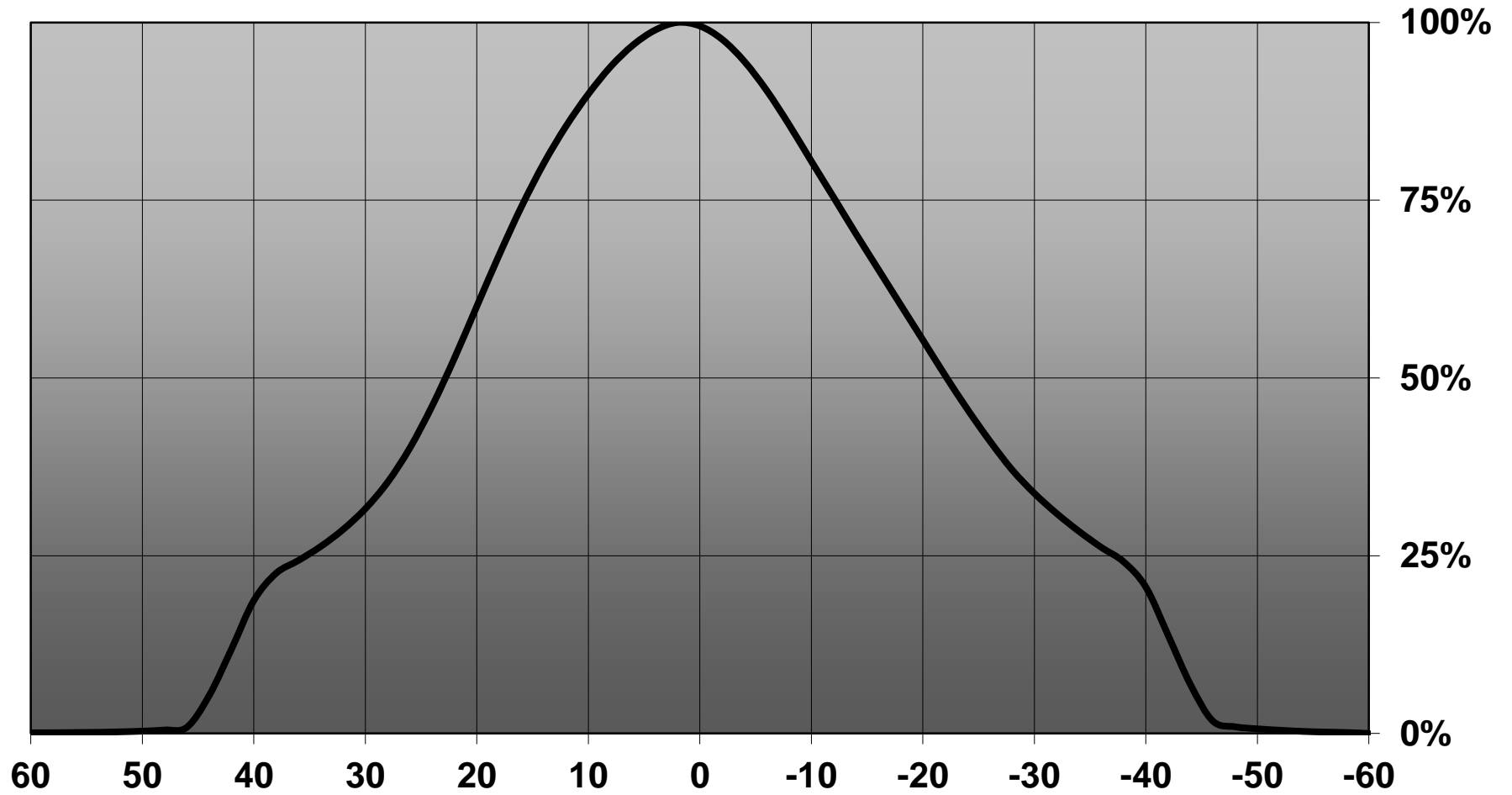
Relative intensity of C12482\_Mirella\_50-W-PIN\_(XP-G)



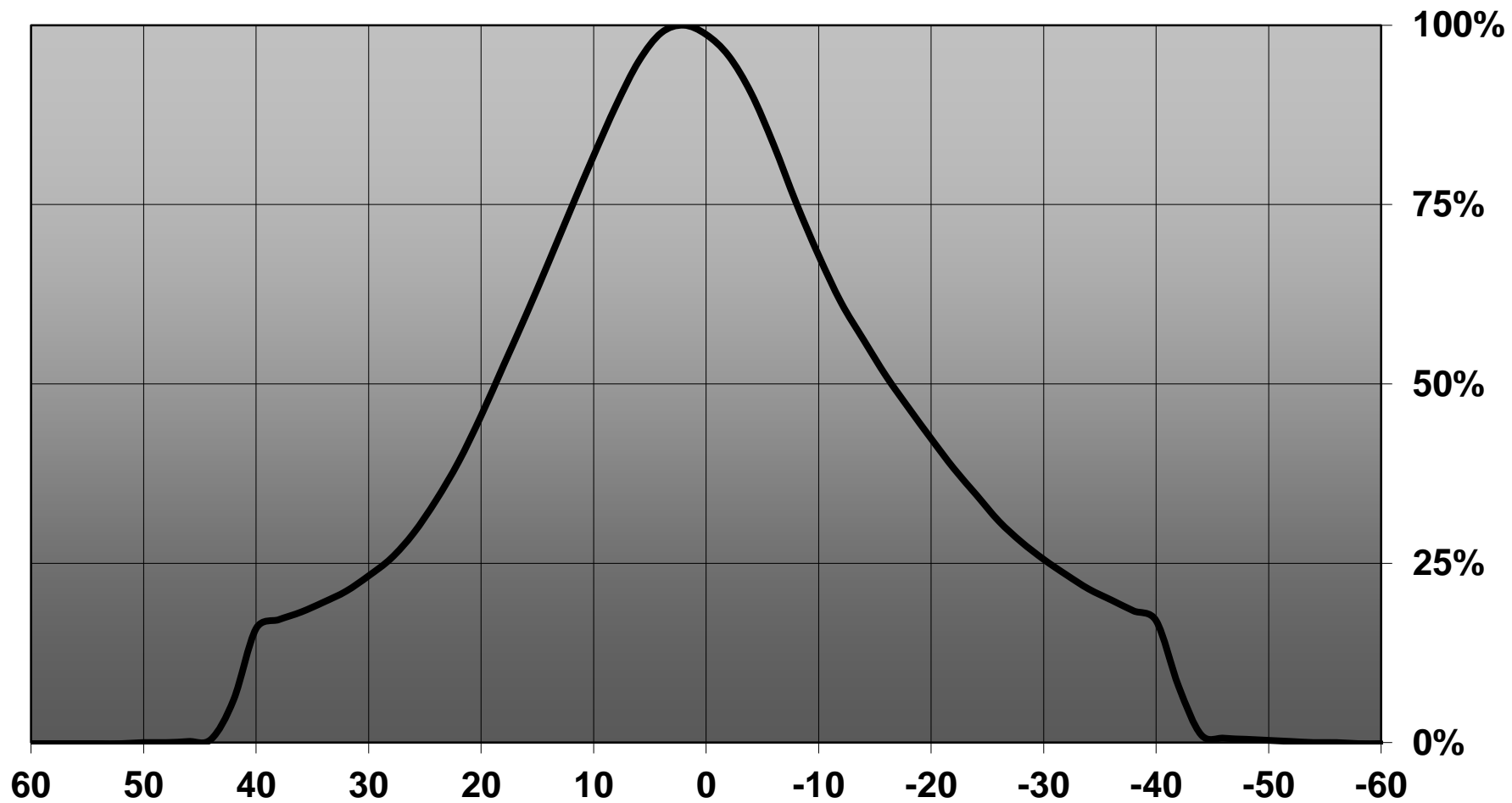
Relative intensity of C12482\_MIRELLA-50-W-PIN-(XPG2)



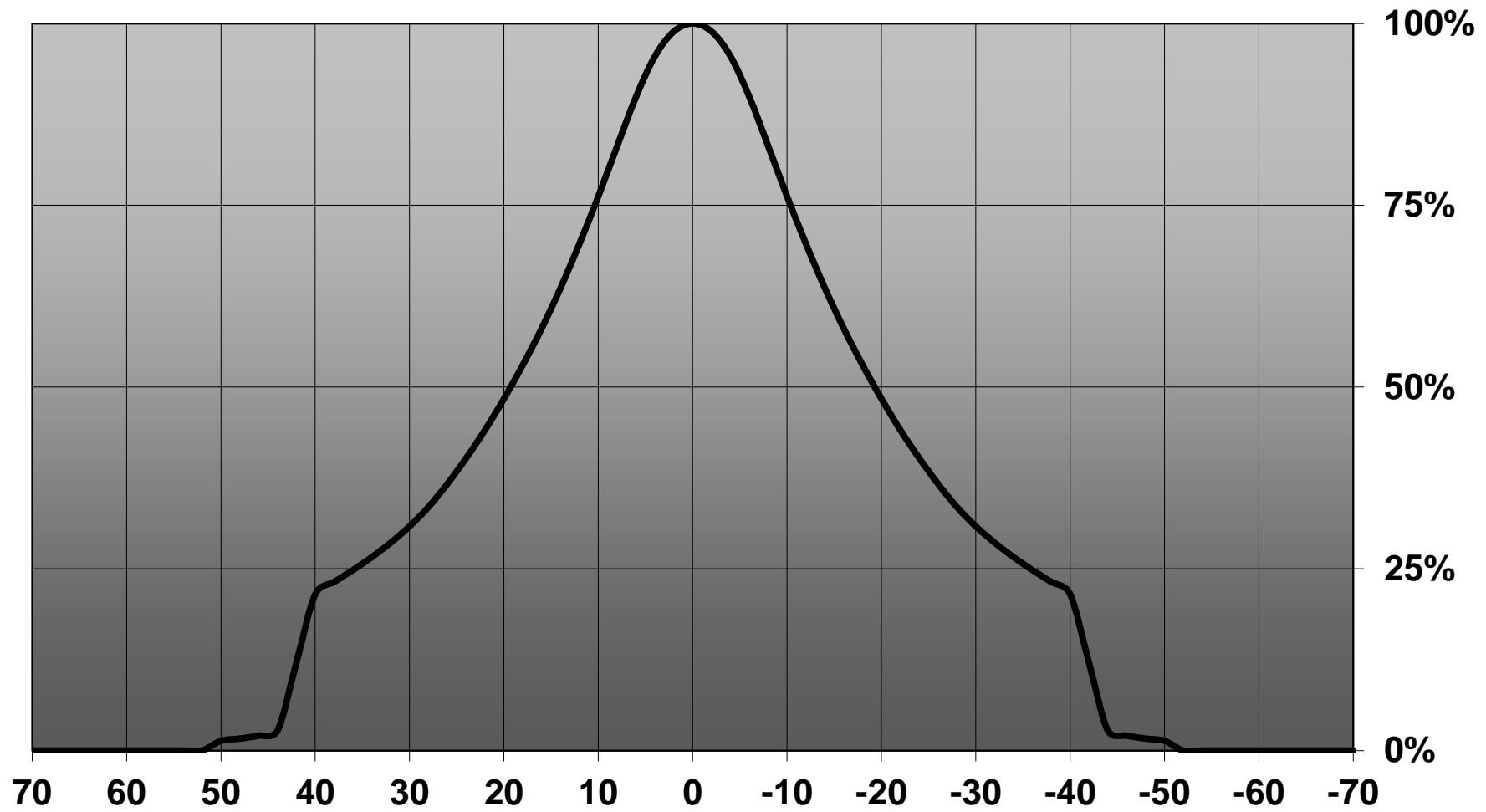
Relative intensity of C12482\_MIRELLA-50-W-PIN\_(MH-B)



Relative intensity of C12482\_MIRELLA-50-W-PIN\_(XP-L\_HI)

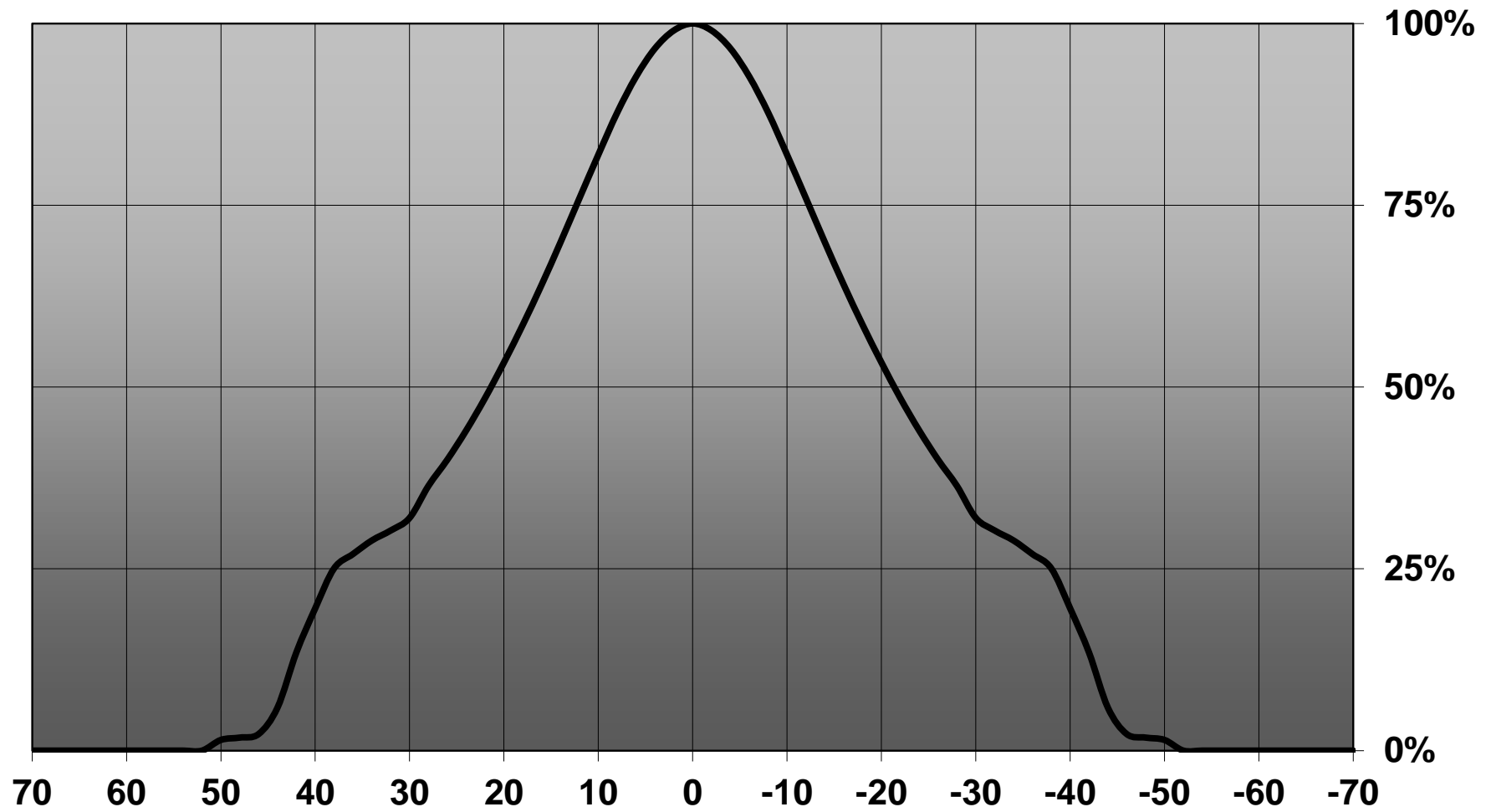


Relative intensity of C12482\_Mirella\_50-W-PIN\_(LUXEON A)

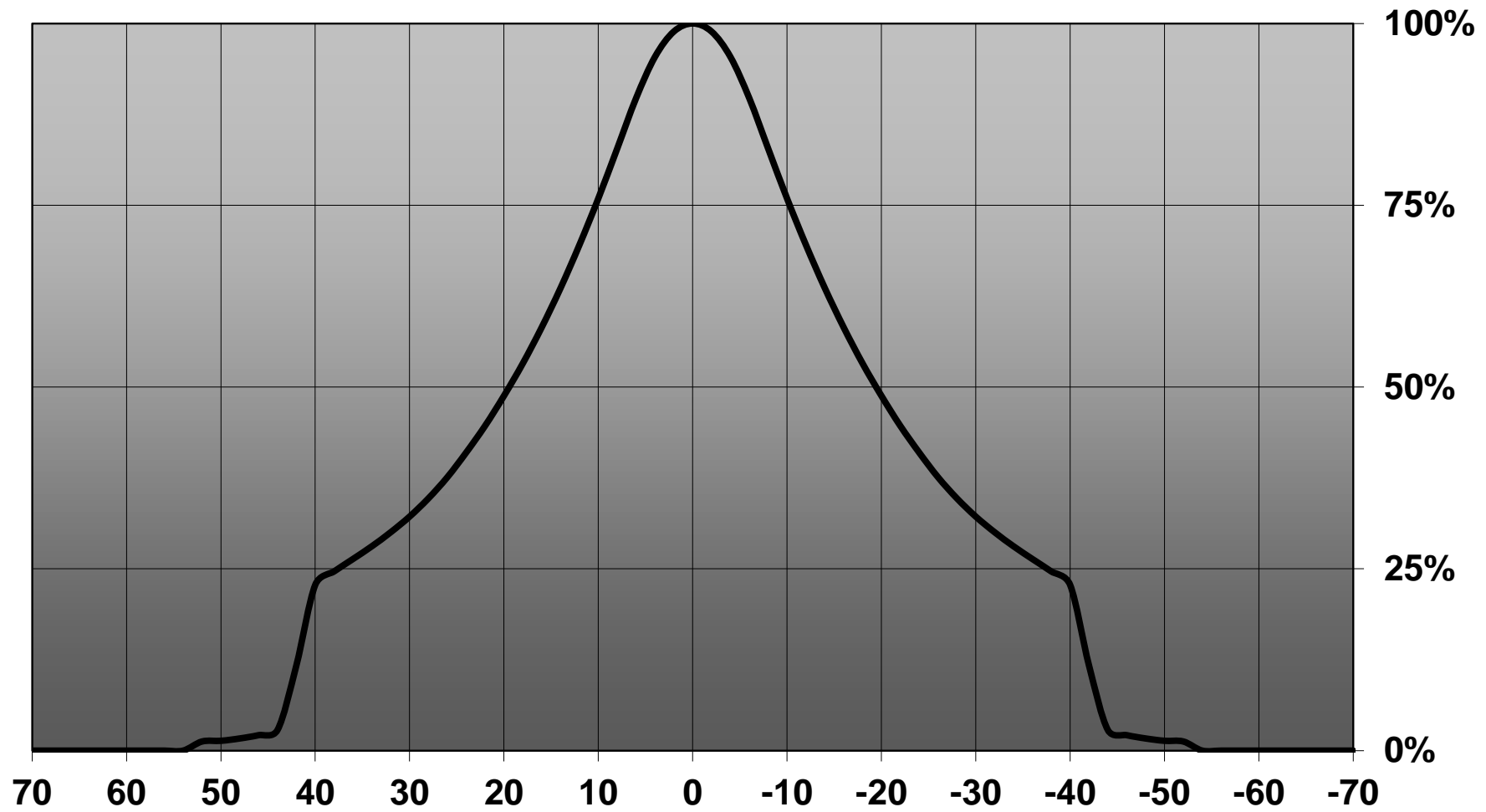




Relative intensity of C12482\_Mirella\_50-W-PIN\_(LUXEON M)



Relative intensity of C12482\_Mirella\_50-W-PIN\_(OSLON-SQ-EC)

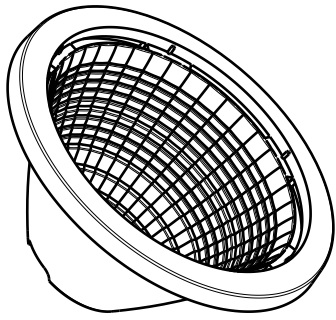


D

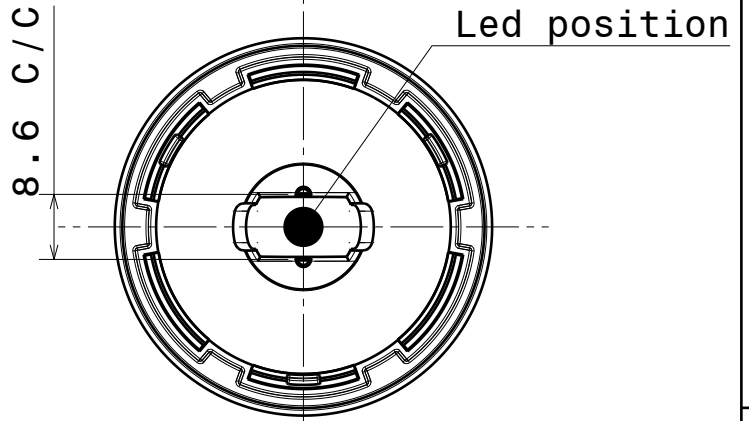
C

B

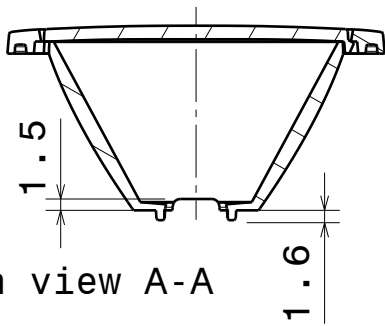
A



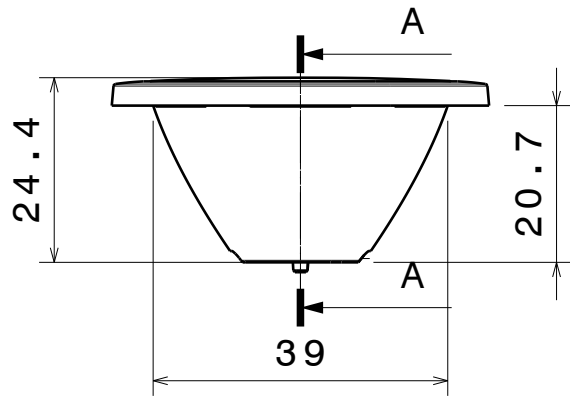
Isometric view



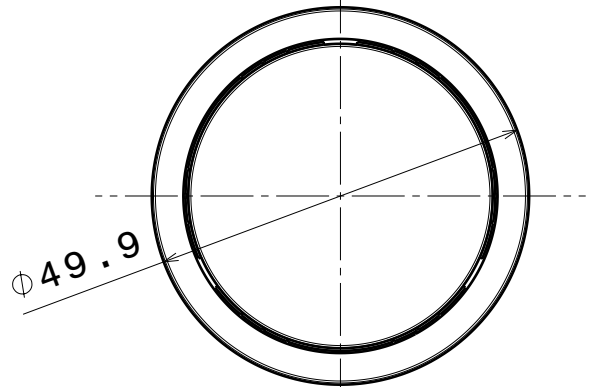
Bottom view



Section view A-A



Front view

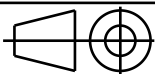


Top view

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\_Mirella\_pin

This drawing is the property  
 of LEDiL Oy. It may not be  
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 communicated without a written  
 agreement with LEDiL Oy."

SIZE	PART NUMBER
A4	-

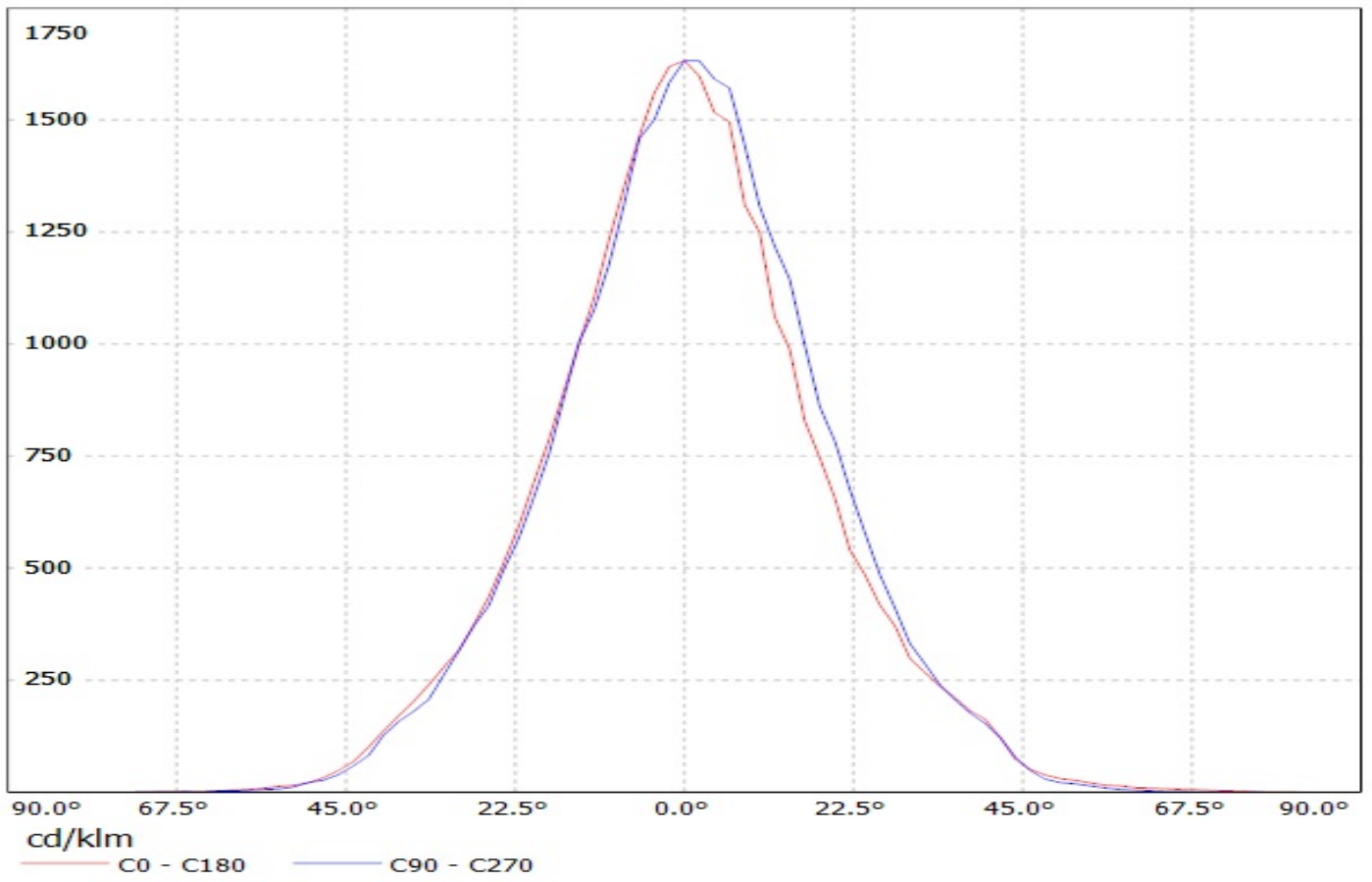
SCALE	1:1	WEIGHT	-
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SHEET	1/1
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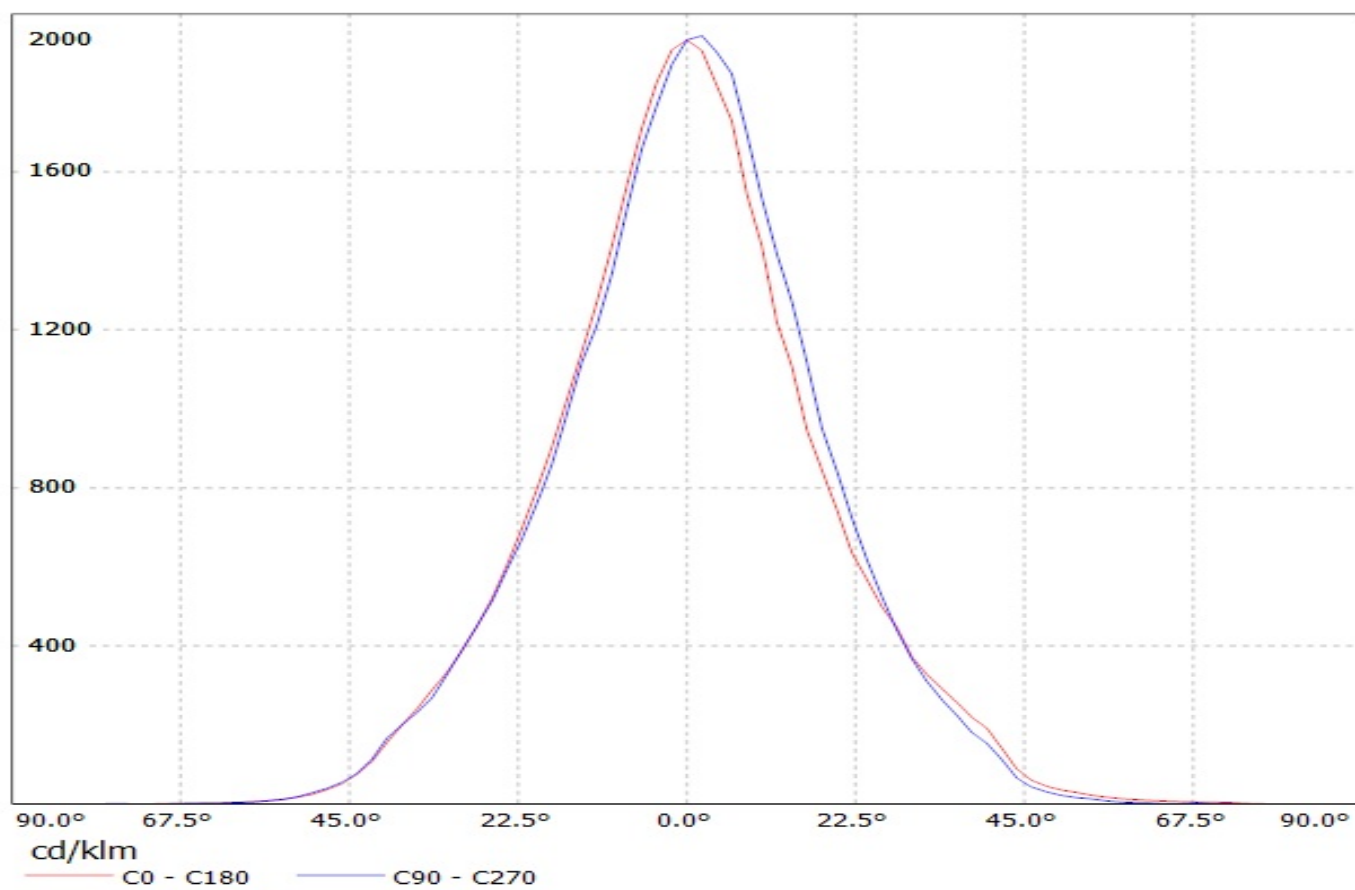
D

A

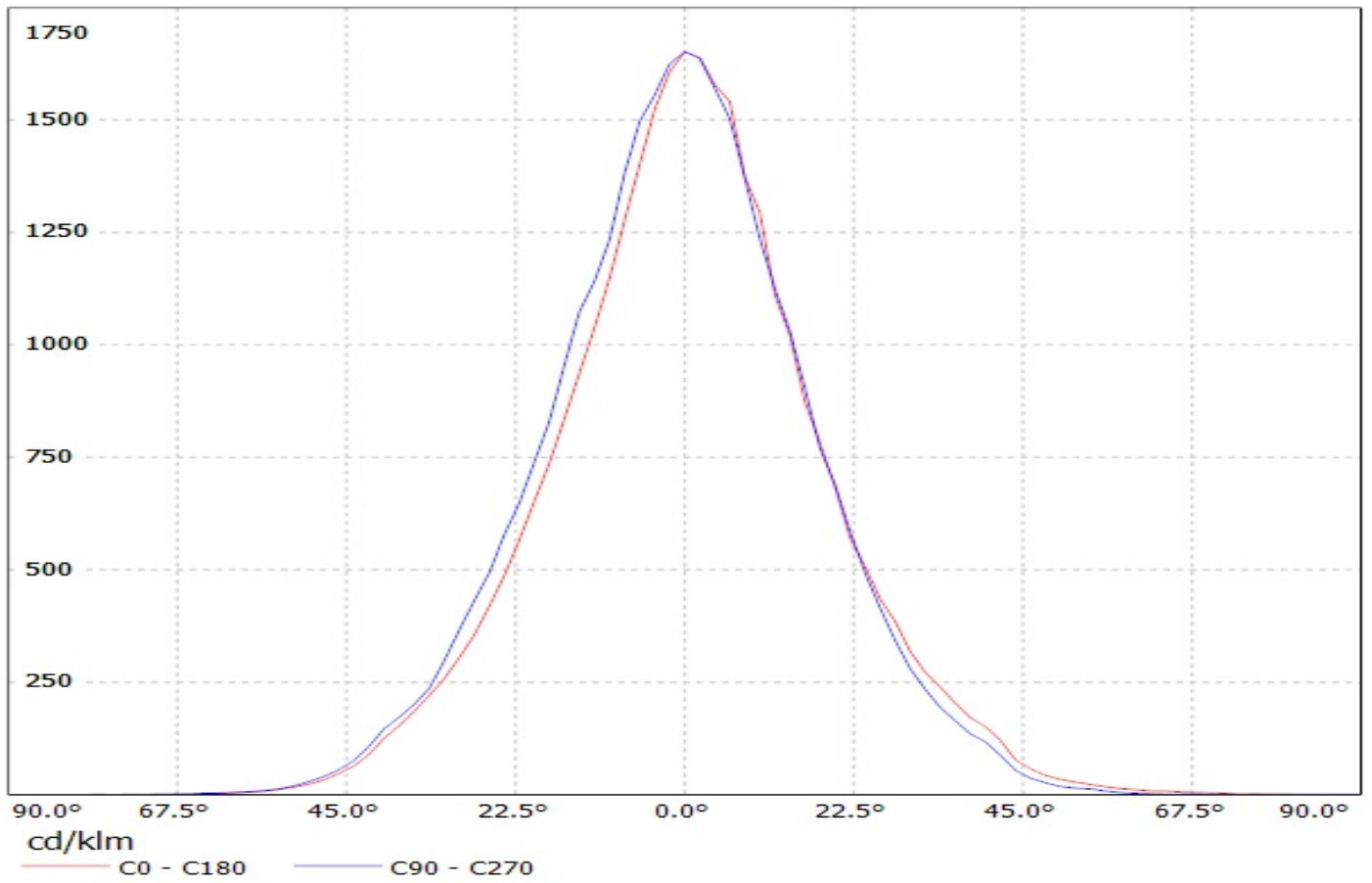
Luminaire: Ledil Oy C12482\_Mirella\_50-W-PIN (Cree XM-L 111lm @ 250mA) Efficiency=88%  
Lamps: 1 x Cree XM-L 111lm @ 250mA



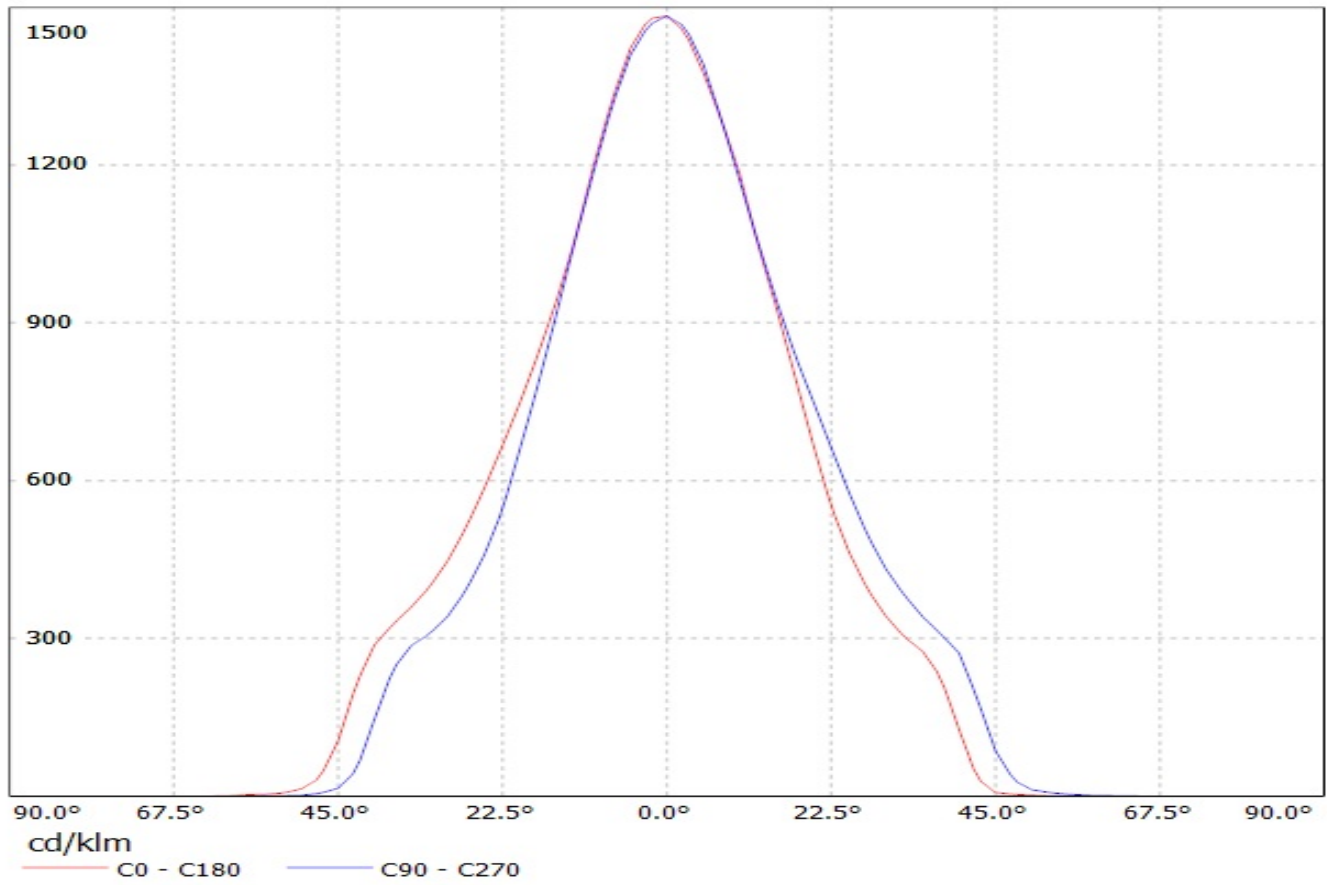
Luminaire: Ledil Oy C12482\_Mirella\_50-W-PIN (XT-E) (Cree XT-E 113lm @ 250mA) Efficiency=84%  
Lamps: 1 x Cree XT-E 113lm @ 250mA



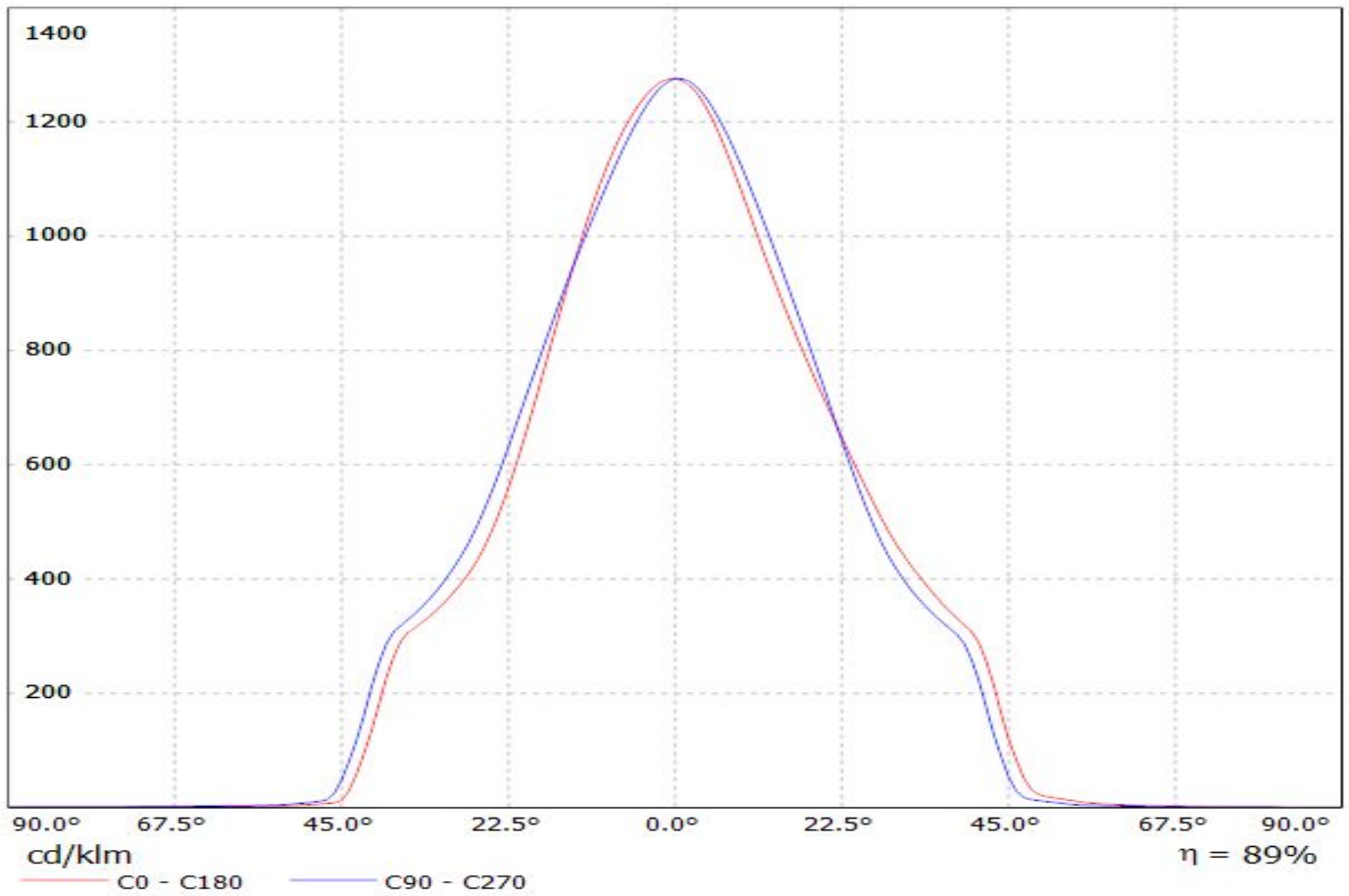
Luminaire: Ledil Oy C12482\_Mirella\_50-W-PIN (Cree XP-G 92lm @ 250mA) Efficiency=86%  
Lamps: 1 x Cree XP-G 92lm @ 250mA



Luminaire: Ledil Oy C12482\_MIRELLA-50-W-PIN (Cree XM-L2 100lm @250mA) Efficiency=89%  
Lamps: 1 x Cree XM-L2 100lm @250mA

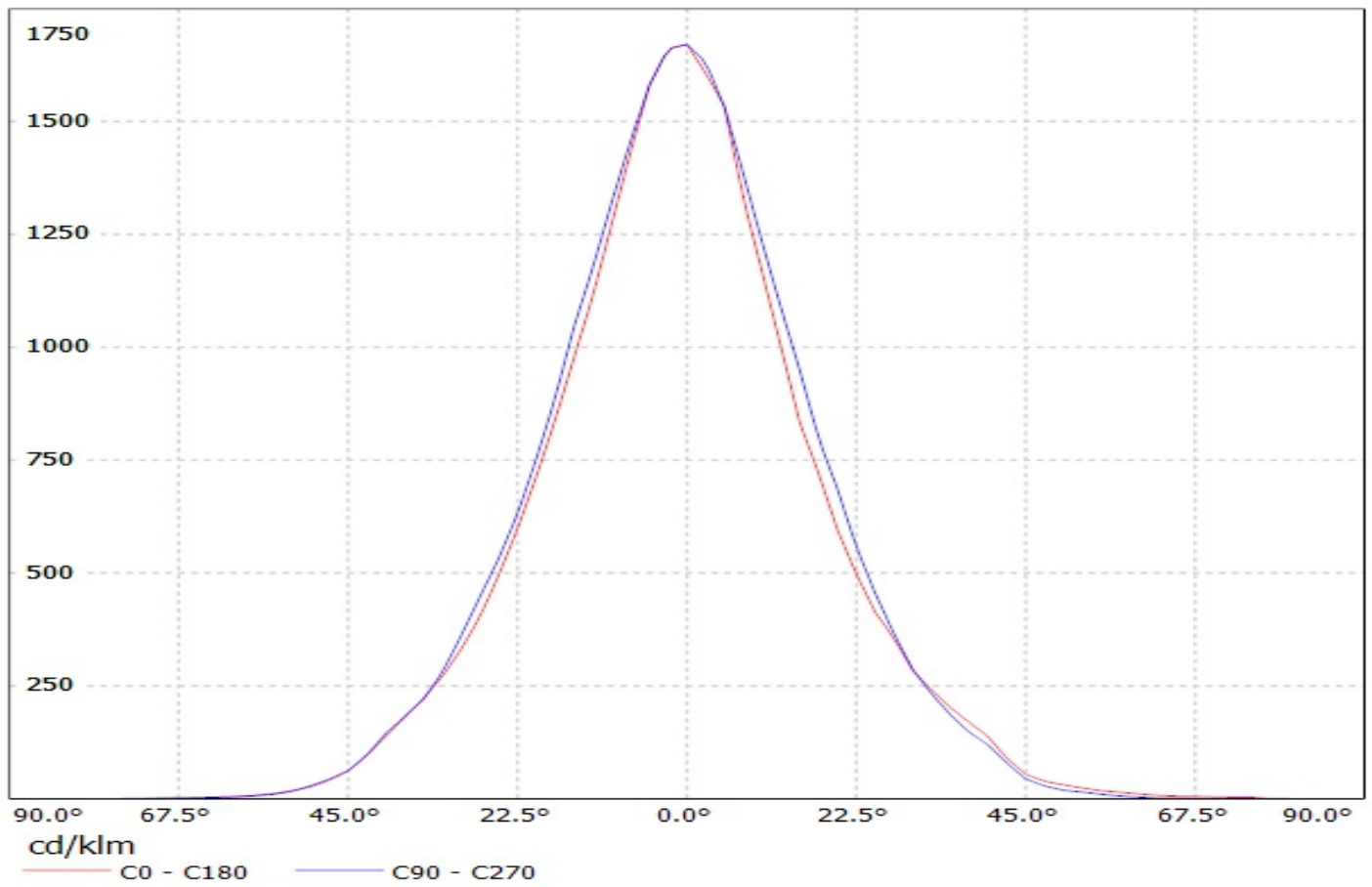


Luminaire: LEDiL Oy C12482\_MIRELLA-50-W-PIN (CREE\_XHP50\_WARM\_WHITE)  
Lamps: 1 x CREE\_XHP50\_WARM\_WHITE\_195.126lm@250mA\_P=1.39922W\_I=0.2499A

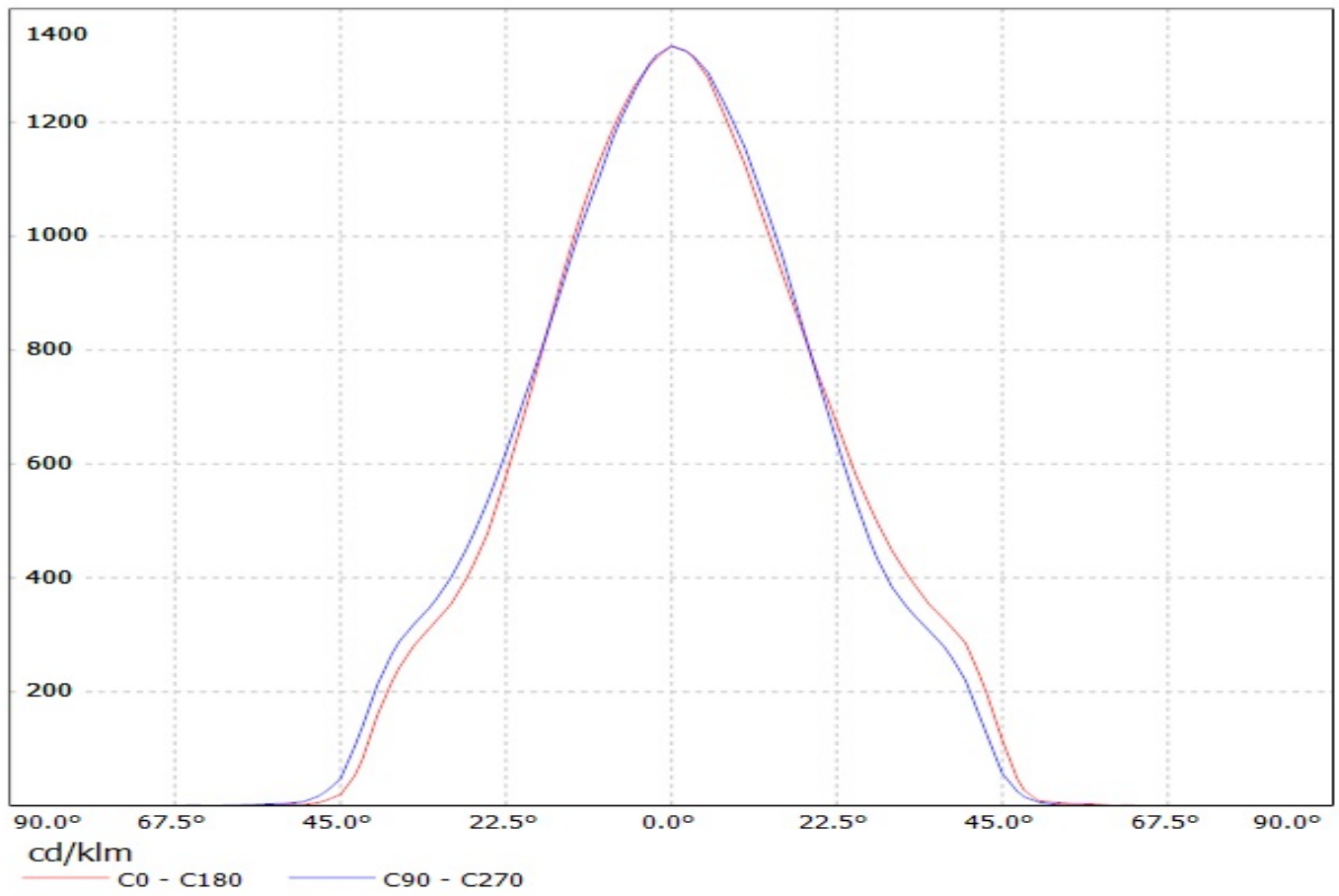




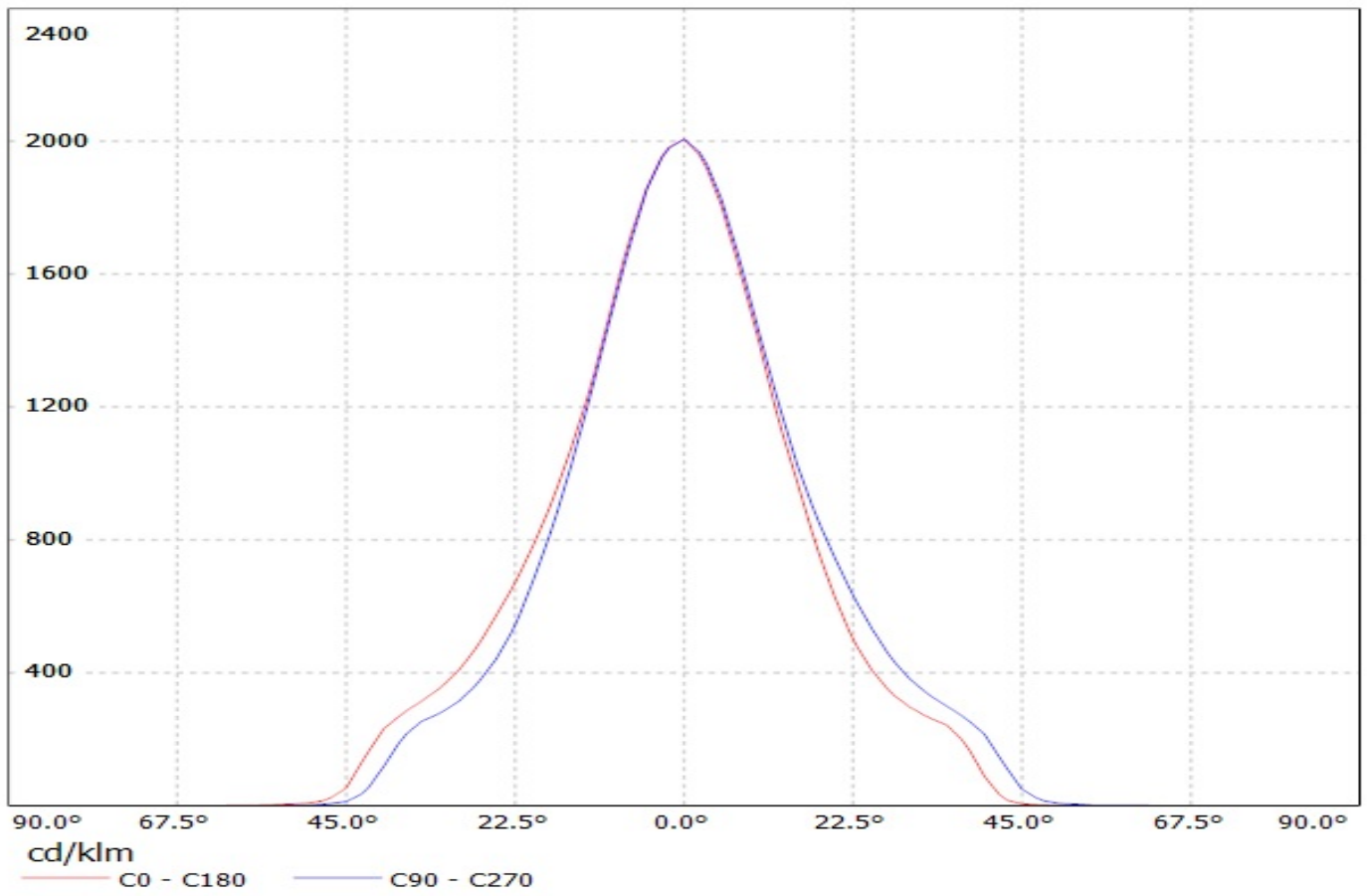
Luminaire: Ledil Oy C12482\_Mirella\_50-W-PIN (Luxeon A 70lm @ 250mA) Efficiency=86%  
Lamps: 1 x Luxeon A 70lm @ 250mA



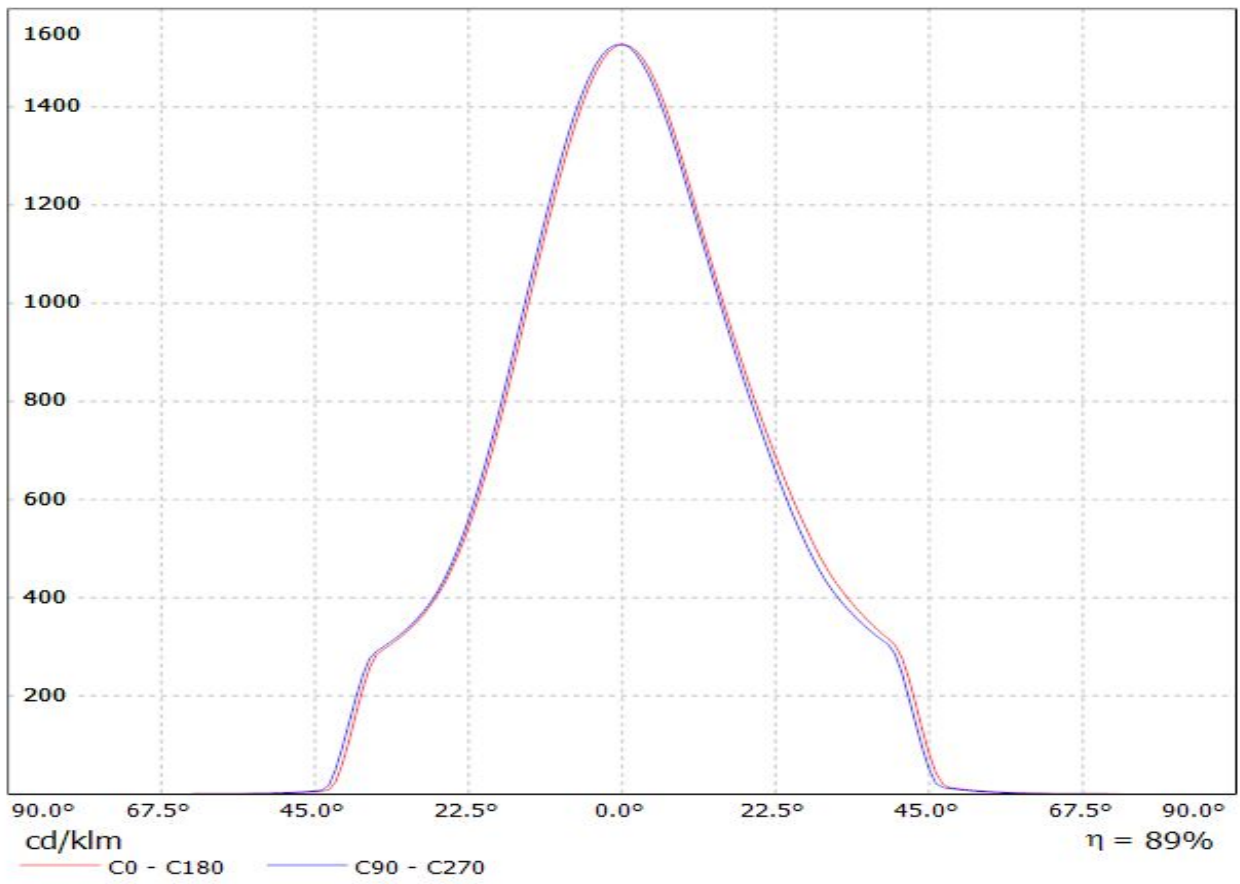
Luminaire: Ledil Oy C12482\_MIRELLA-50-W-PIN\_(Luxeon\_M) Efficiency=87%  
Lamps: 1 x Philips Lumileds Luxeon M (347lm @ 250mA) CCT=4100K P=2.7W I=250mA



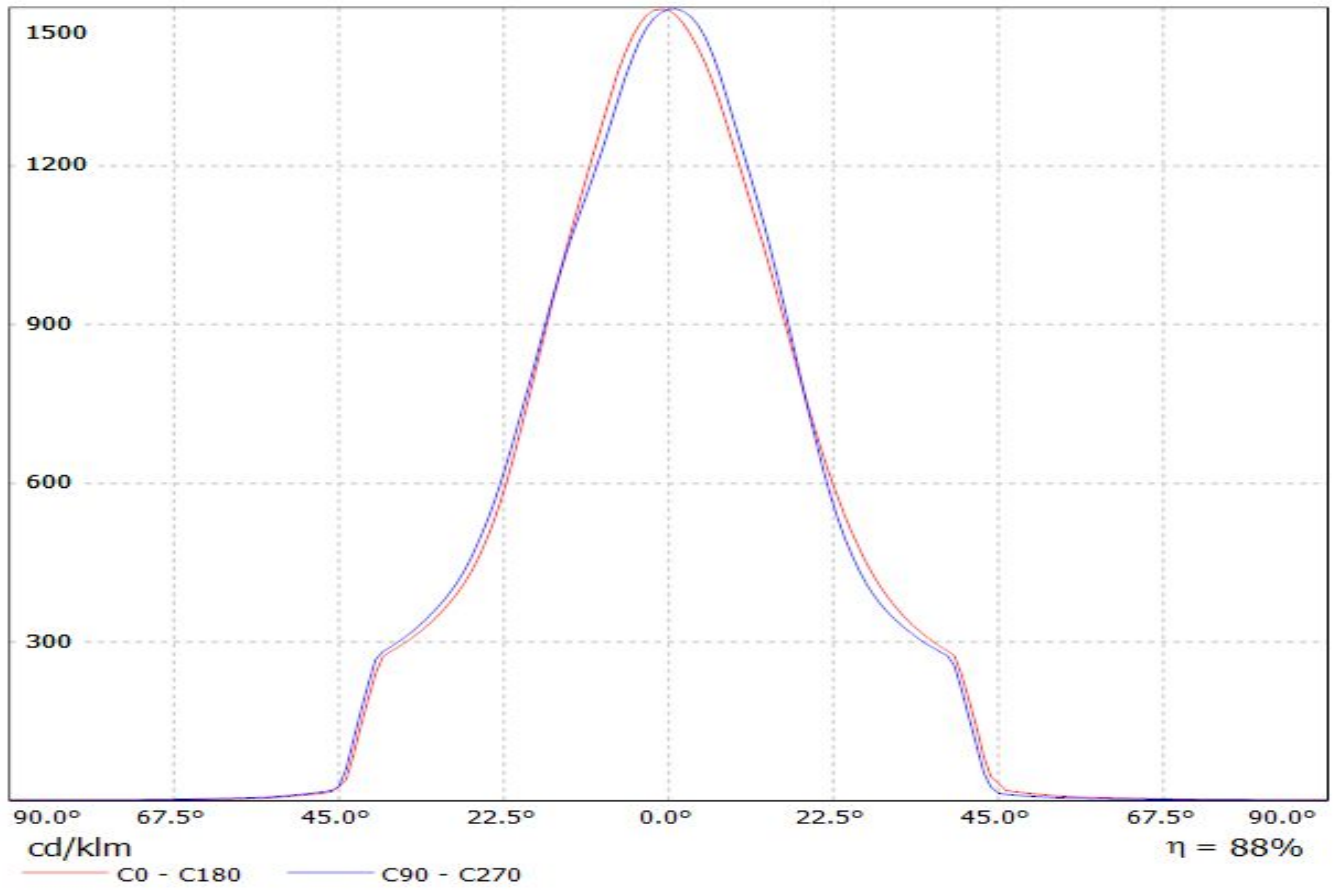
Luminaire: Ledil Oy C12482\_MIRELLA-50-W-PIN (Luxeon\_MZ) Efficiency=87%  
Lamps: 1 x Philips Lumileds Luxeon MZ (389lm @ 250mA) CCT=3800K P=2.8W I=250mA



Luminaire: LEDiL Oy C12482\_MIRELLA-50-W-PIN\_(Luxeon\_5050)  
Lamps: 1 x Luxeon\_5050\_316.623lm@80mA\_CCT=5700K\_P=1.82294W\_I=0.080A\_70CRI

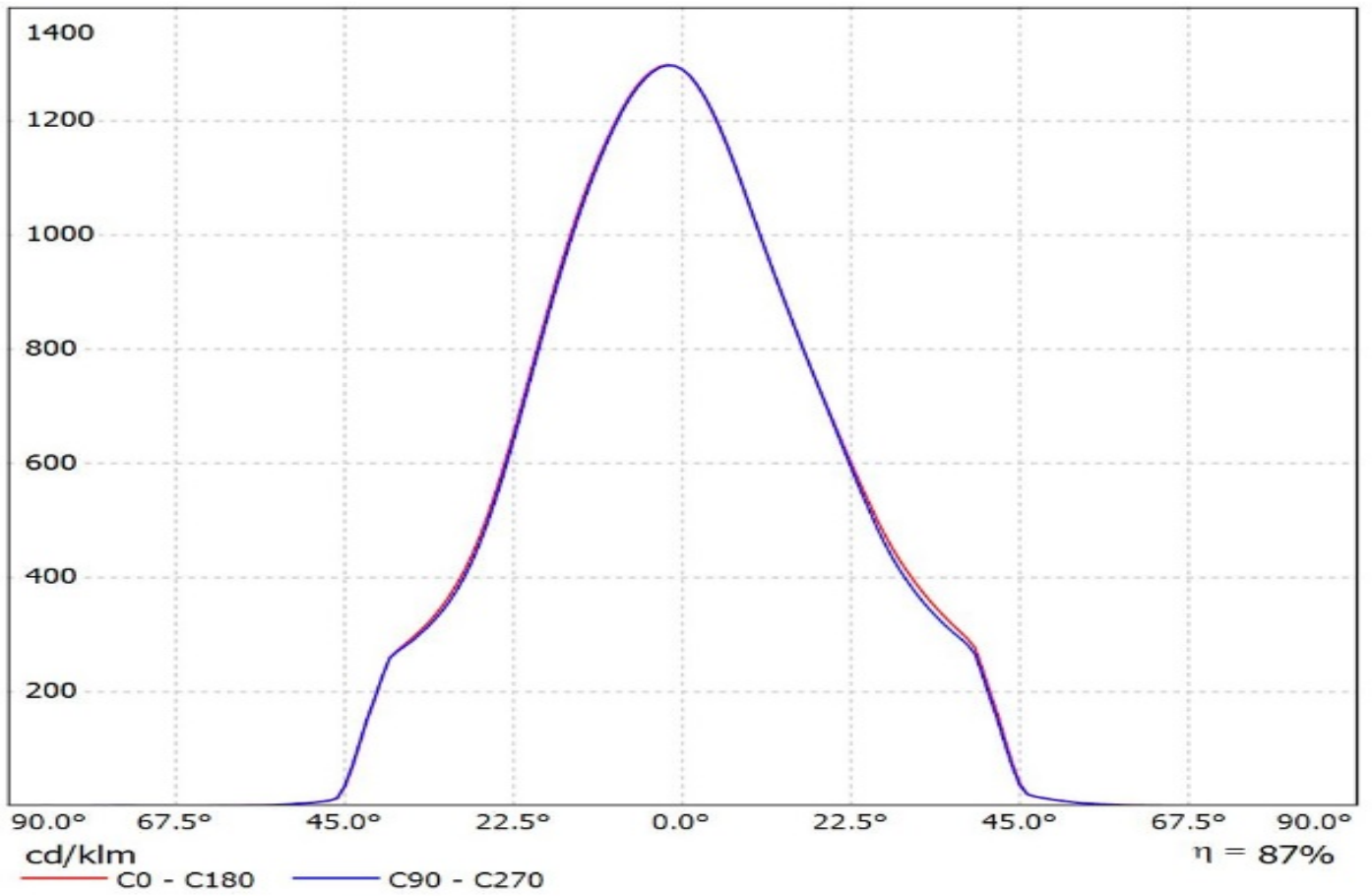


Luminaire: LEDiL Oy C12482\_MIRELLA-50-W-PIN\_(NS9x383) Eff. 88,5%  
Lamps: 1 x Nichia NS9x383 (105lm@250mA)

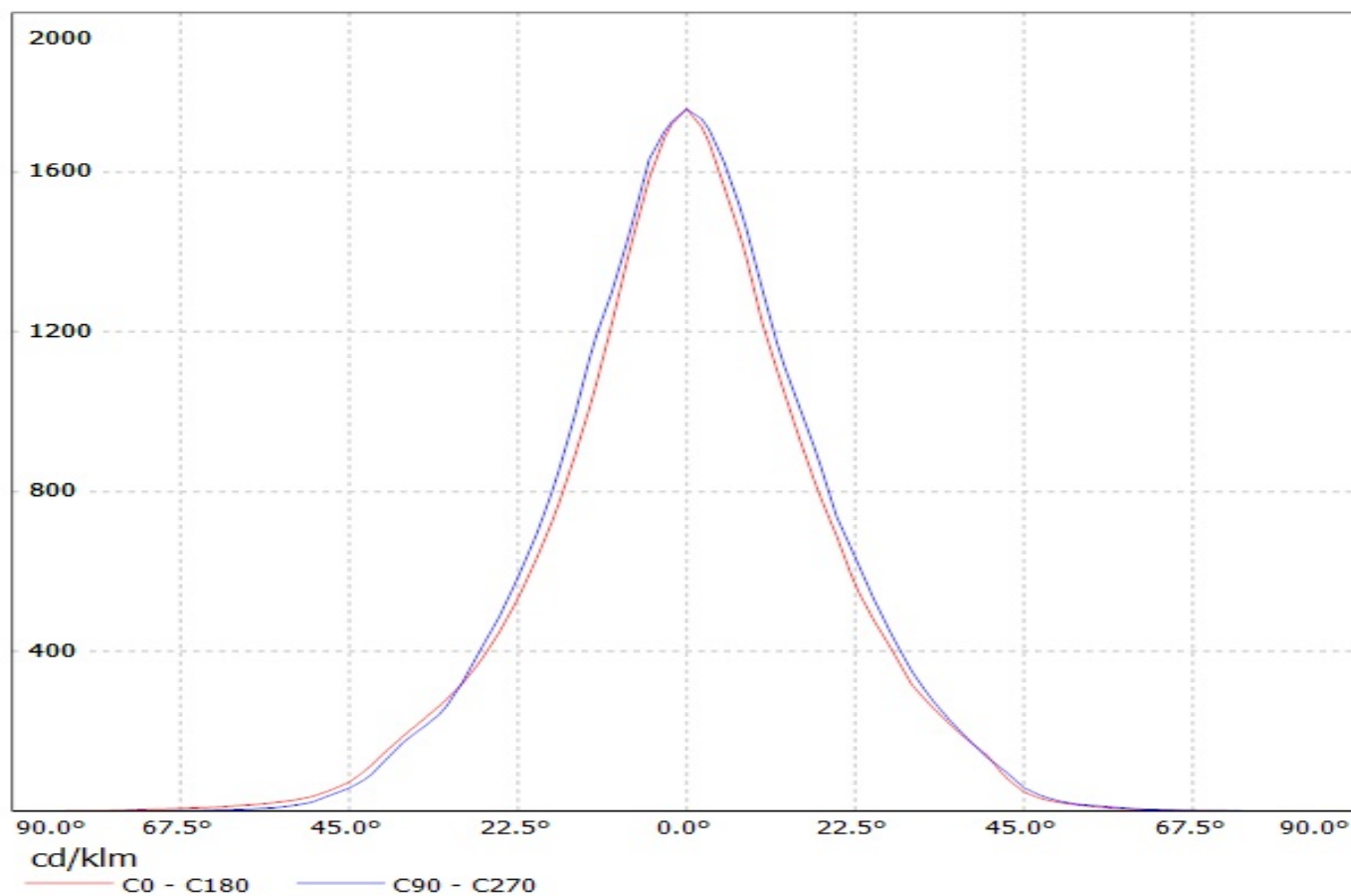


Luminaire: LEDiL Oy C12482\_MIRELLA-50-W-PIN\_(NV4x144A)

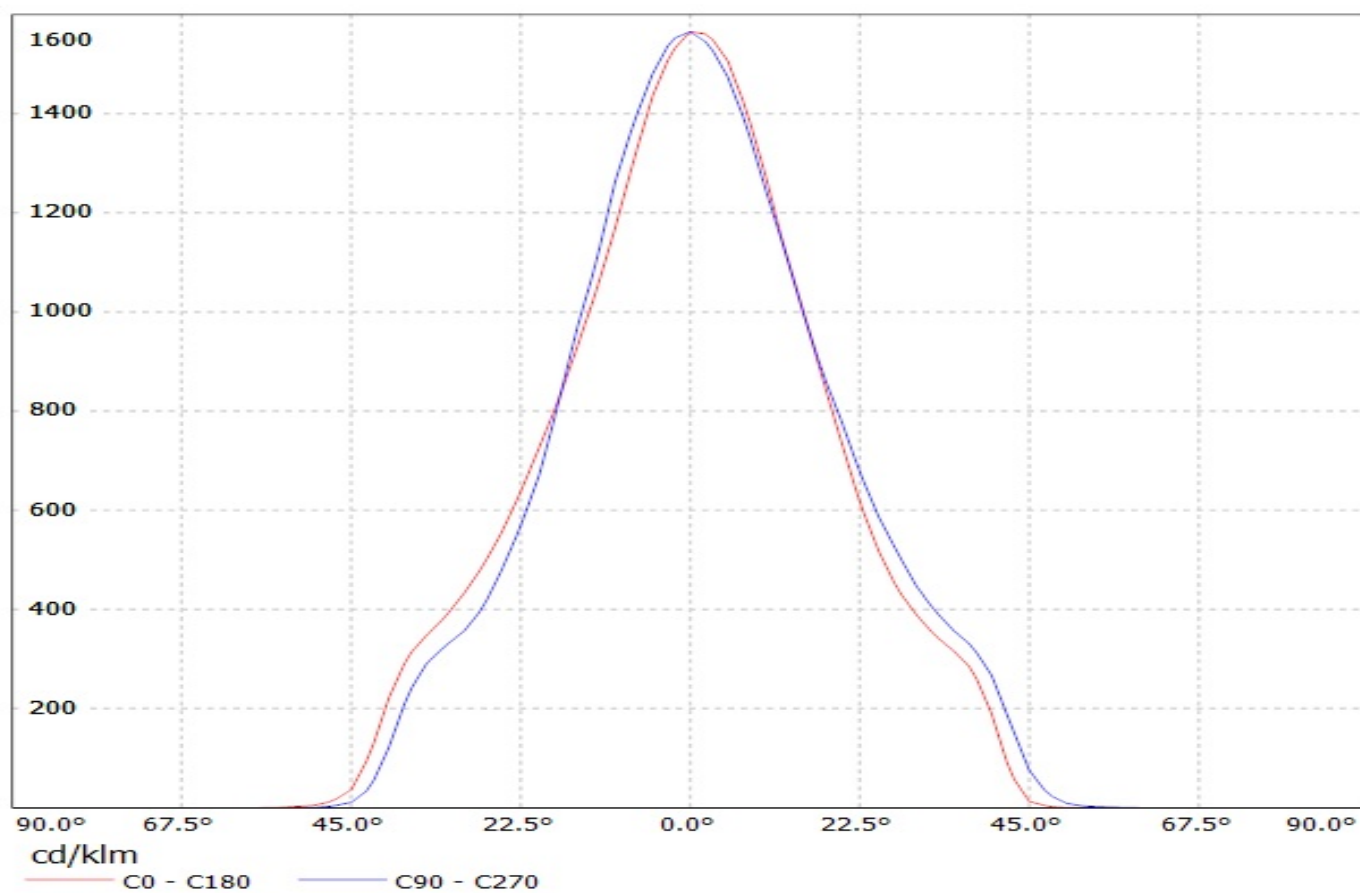
Lamps: 1 x Nichia\_NV4x144A\_(NV4W144AR)\_478.341lm@250mA\_P=2.816W\_I=0.250A



Luminaire: Ledil Oy C12482\_Mirella\_50-W-PIN (Osram Square EC 78lm @ 250mA) Efficiency=85  
Lamps: 1 x Osram Square EC 78lm @ 250mA



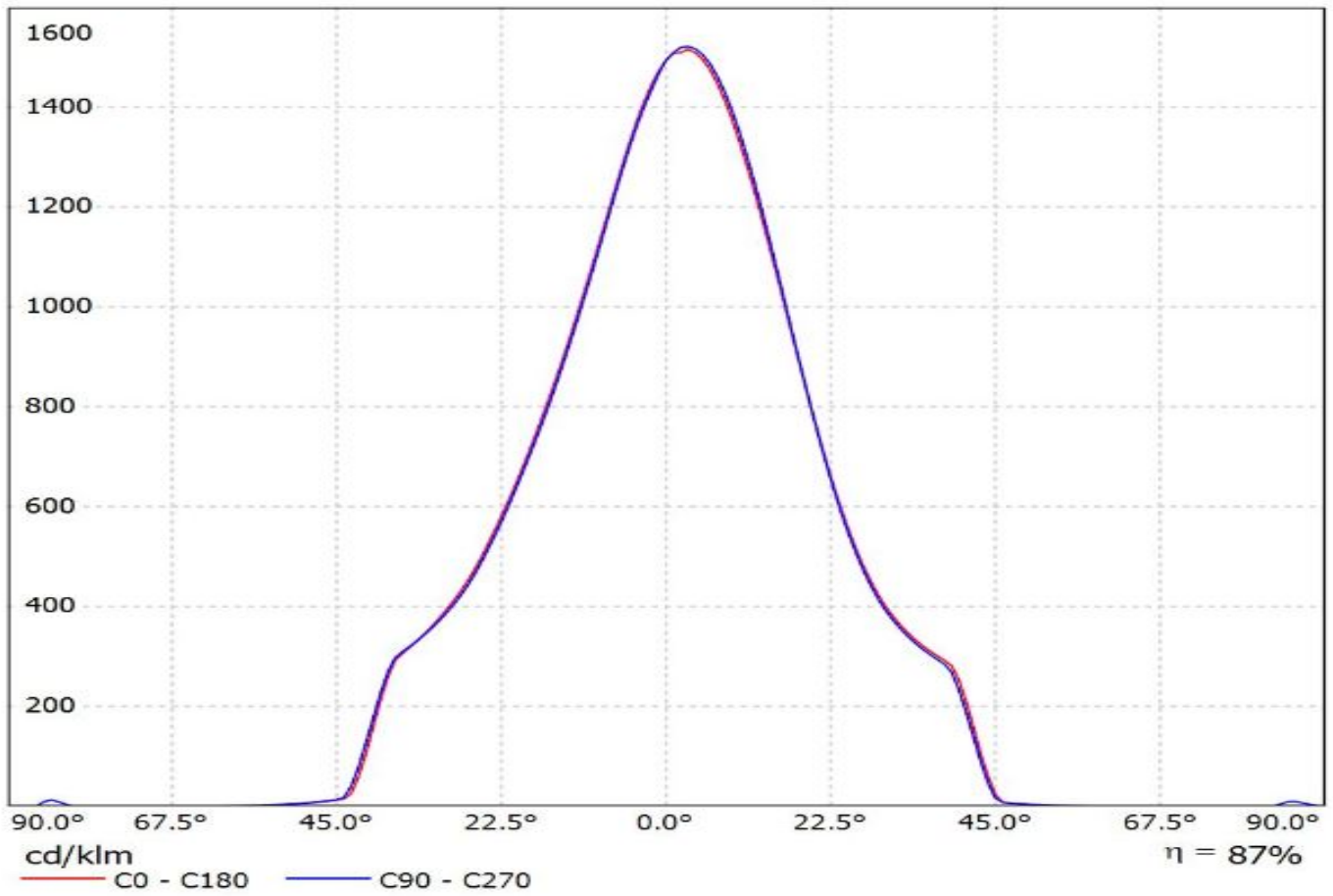
Luminaire: Ledil Oy C12482\_MIRELLA-50-W-PIN (Osram Duris S8 190lm @ 100mA) Efficiency=88%  
Lamps: 1 x Osram Duris S8 190lm @ 100mA (GWP9LMS1.EC) CCT=2857K P=1,8W I=100mA



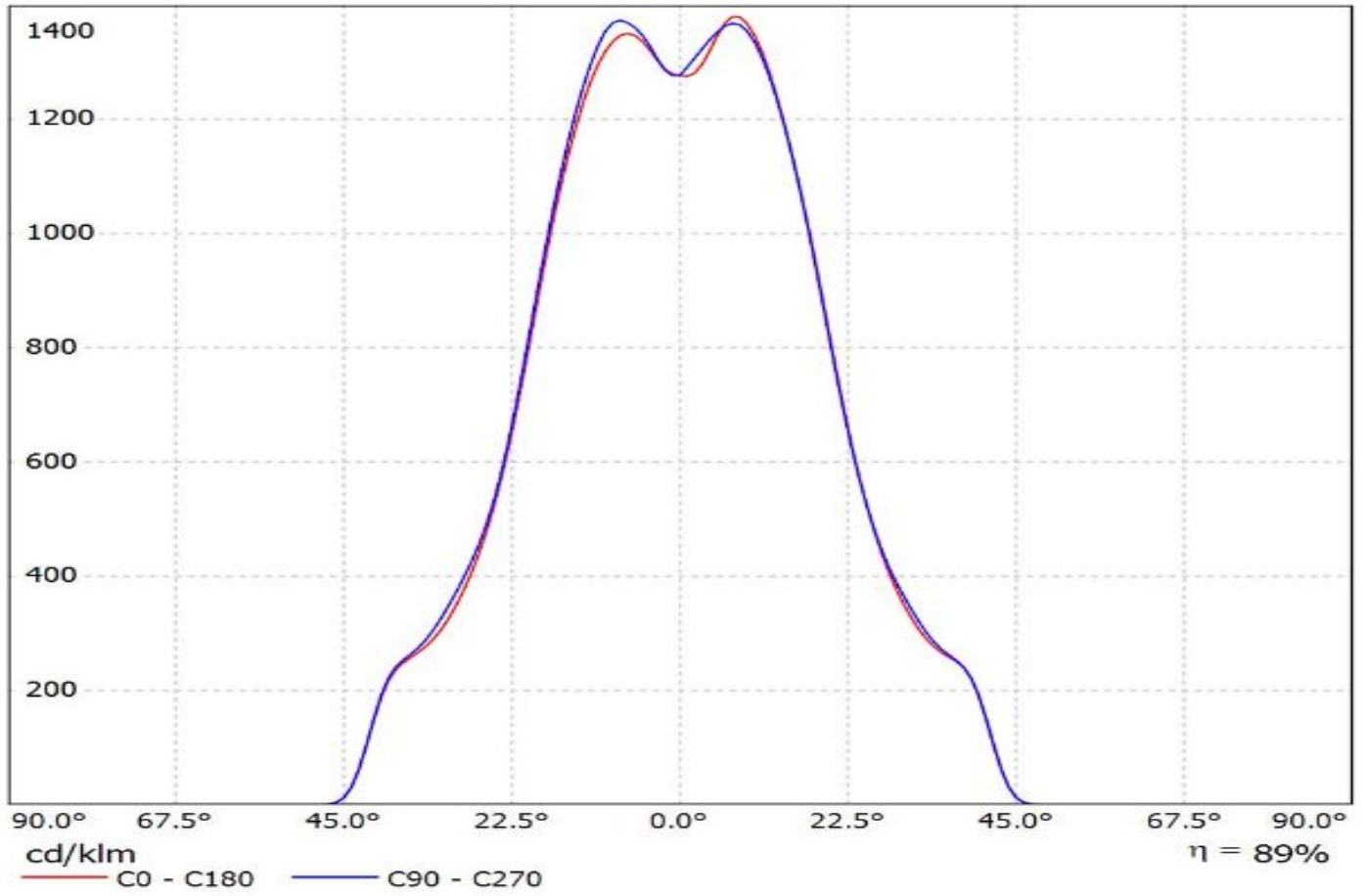


Luminaire: Ledil C12482\_MIRELLA-50-W-PIN\_(LH508A)

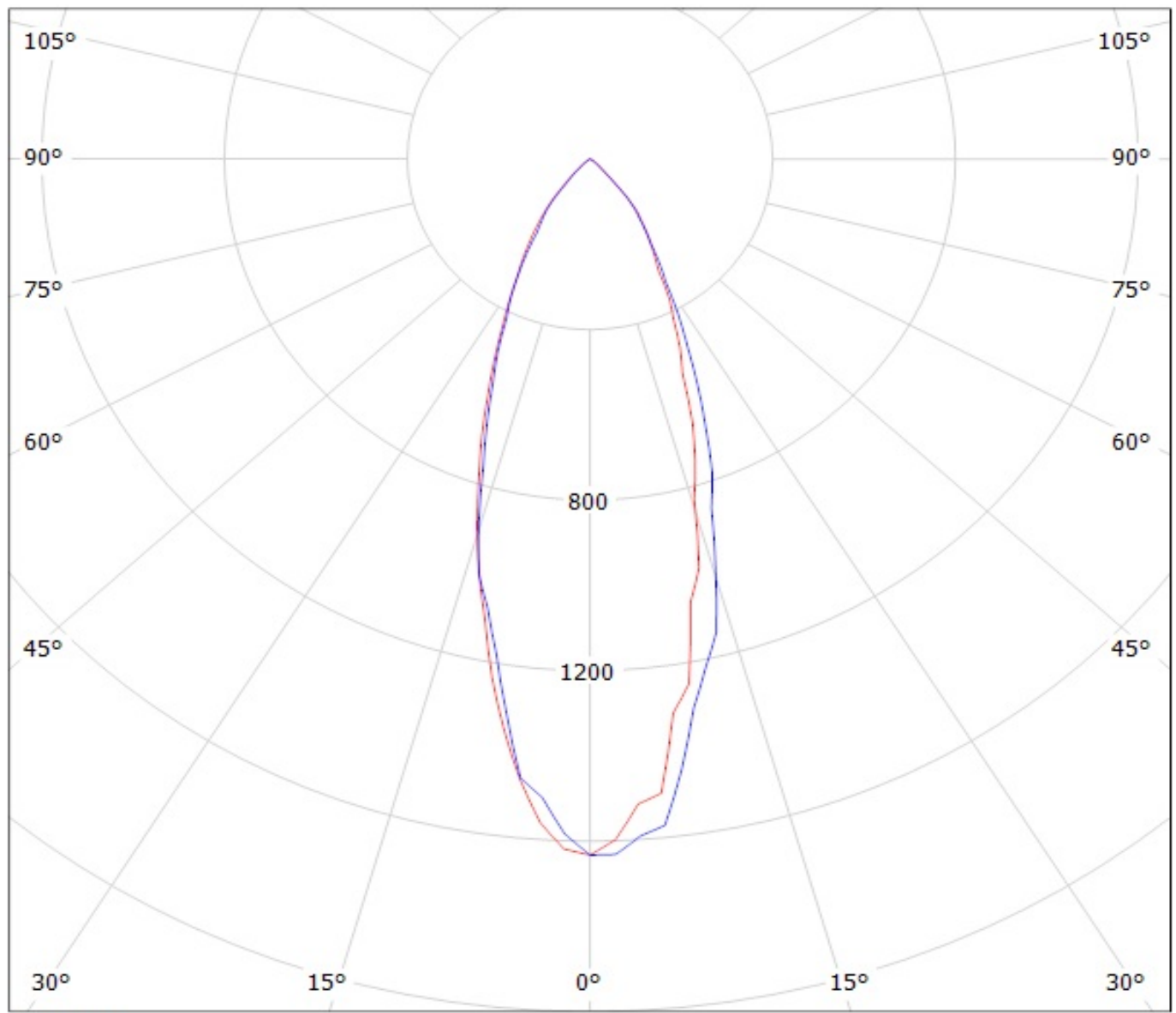
Lamps: 1 x Samsung\_LH508A\_521.239lm@160mA\_CCT=5000K\_CRI=80\_P=3.91403W\_I=0.16A



Luminaire: Ledil Oy C12482\_MIRELLA-50-W-PIN\_SEOUL\_Z8Y22+\_SIMULATED  
Lamps: 1 x SEOUL Z8Y22 Plus



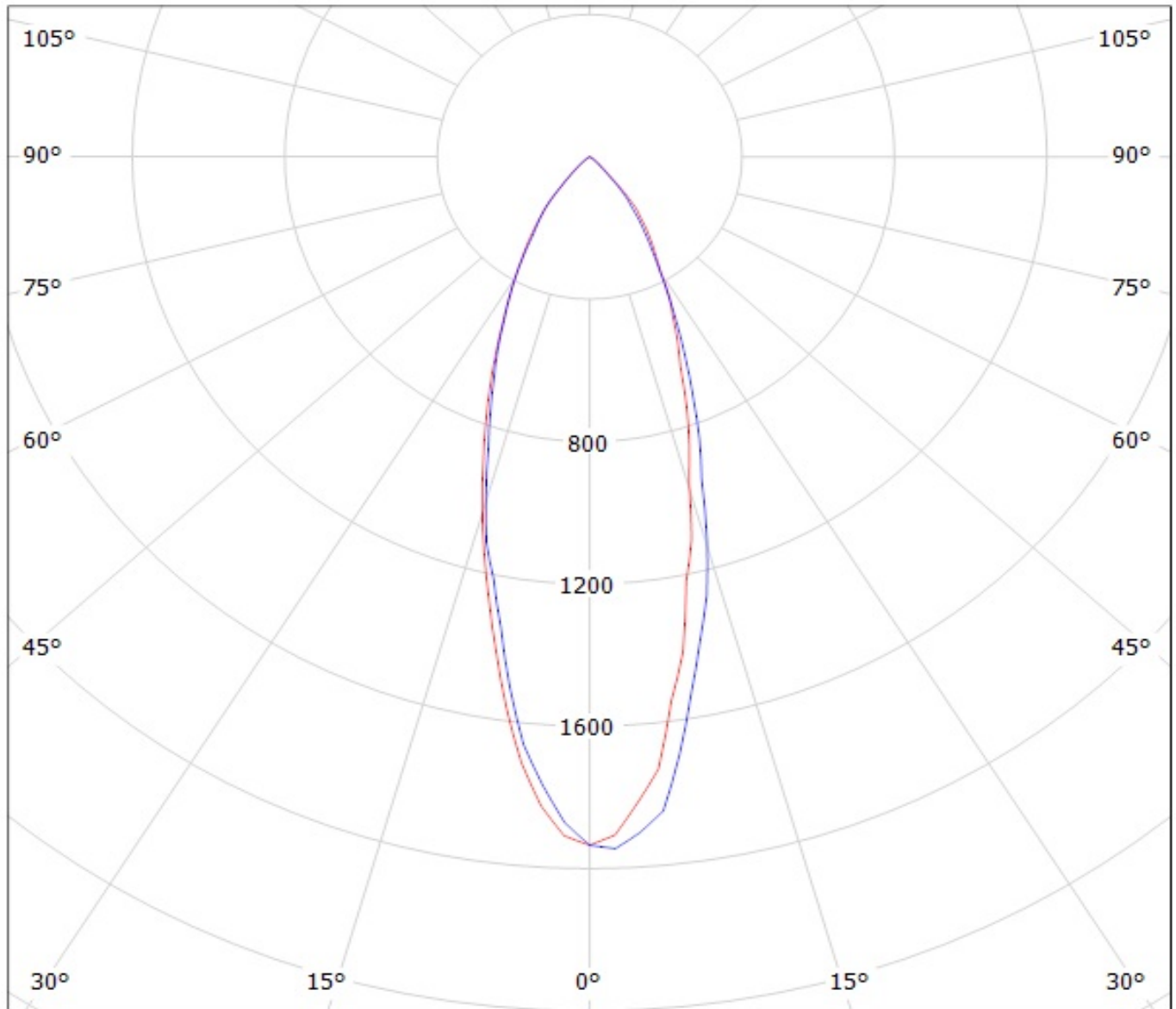
Luminaire: Ledil Oy C12482\_Mirella\_50-W-PIN (Cree XM-L 111lm @ 250mA) Efficiency=88%  
Lamps: 1 x Cree XM-L 111lm @ 250mA



cd/klm

— C0 - C180    — C90 - C270

Luminaire: Ledil Oy C12482\_Mirella\_50-W-PIN (XT-E) (Cree XT-E 113lm @ 250mA) Efficiency=84%  
Lamps: 1 x Cree XT-E 113lm @ 250mA

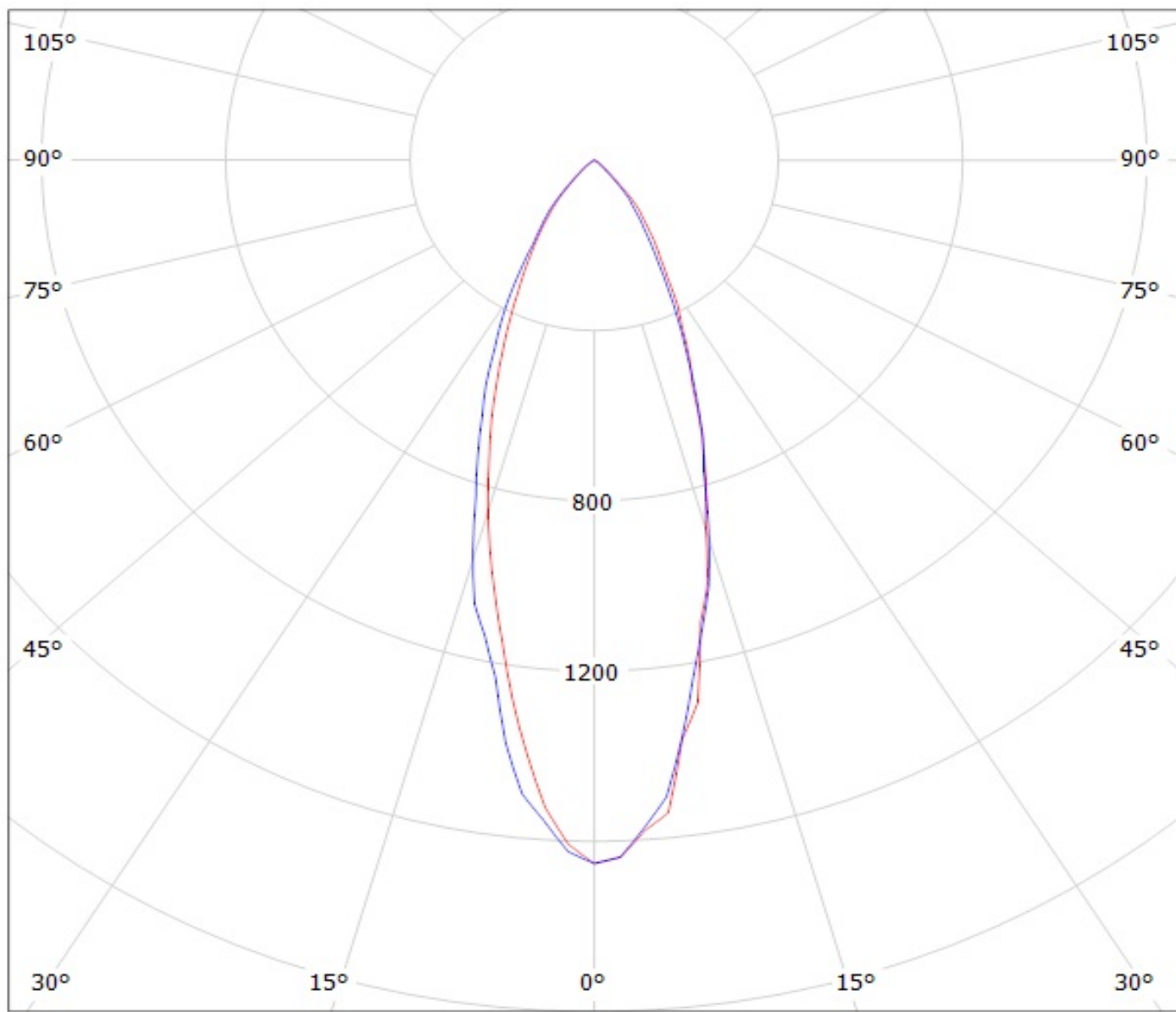


cd/klm

— C0 - C180

— C90 - C270

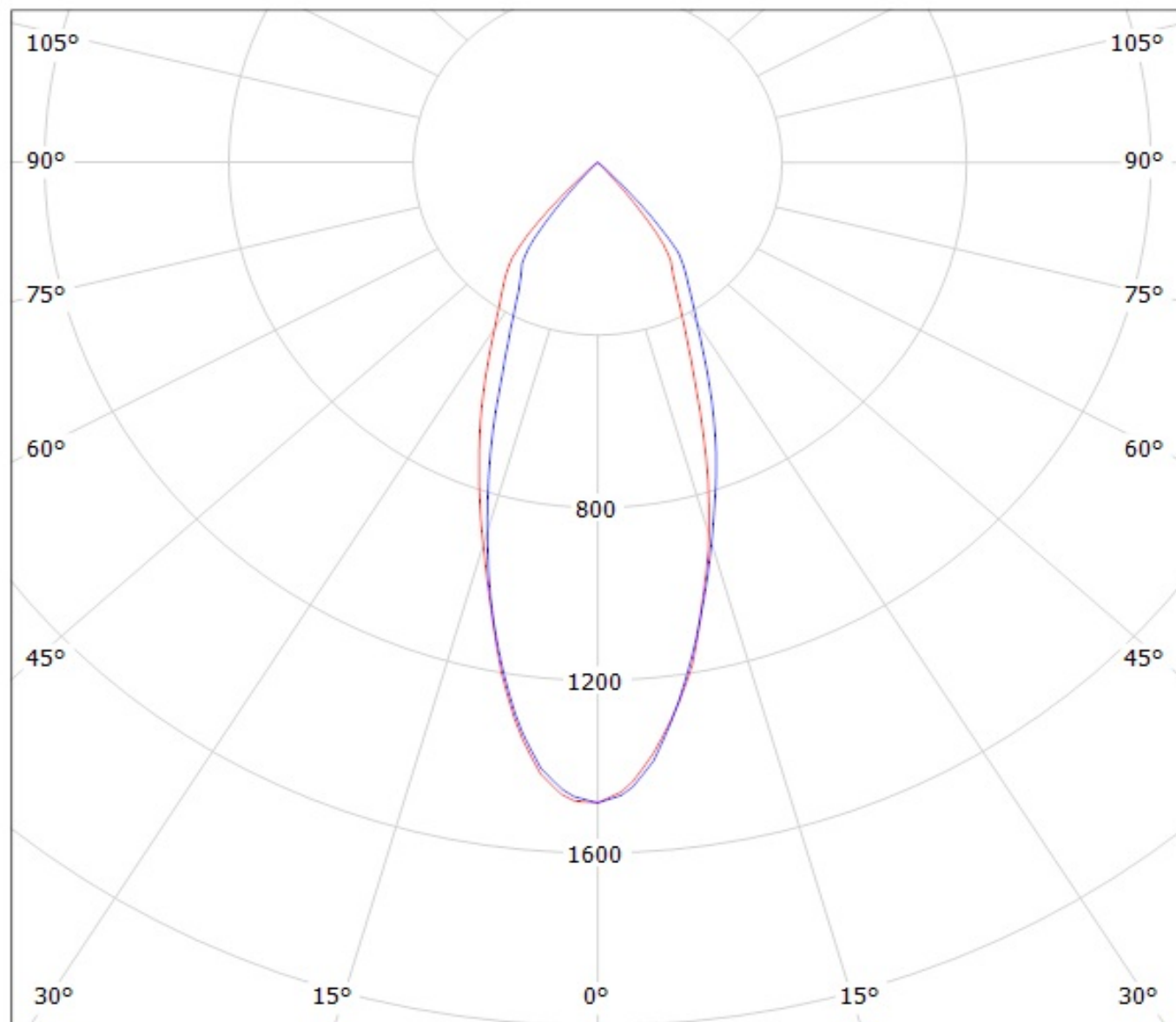
Luminaire: Ledil Oy C12482\_Mirella\_50-W-PIN (Cree XP-G 92lm @ 250mA) Efficiency=86%  
Lamps: 1 x Cree XP-G 92lm @ 250mA



cd/klm

— C0 - C180    — C90 - C270

Luminaire: Ledil Oy C12482\_MIRELLA-50-W-PIN (Cree XM-L2 100lm @250mA) Efficiency=89%  
Lamps: 1 x Cree XM-L2 100lm @250mA

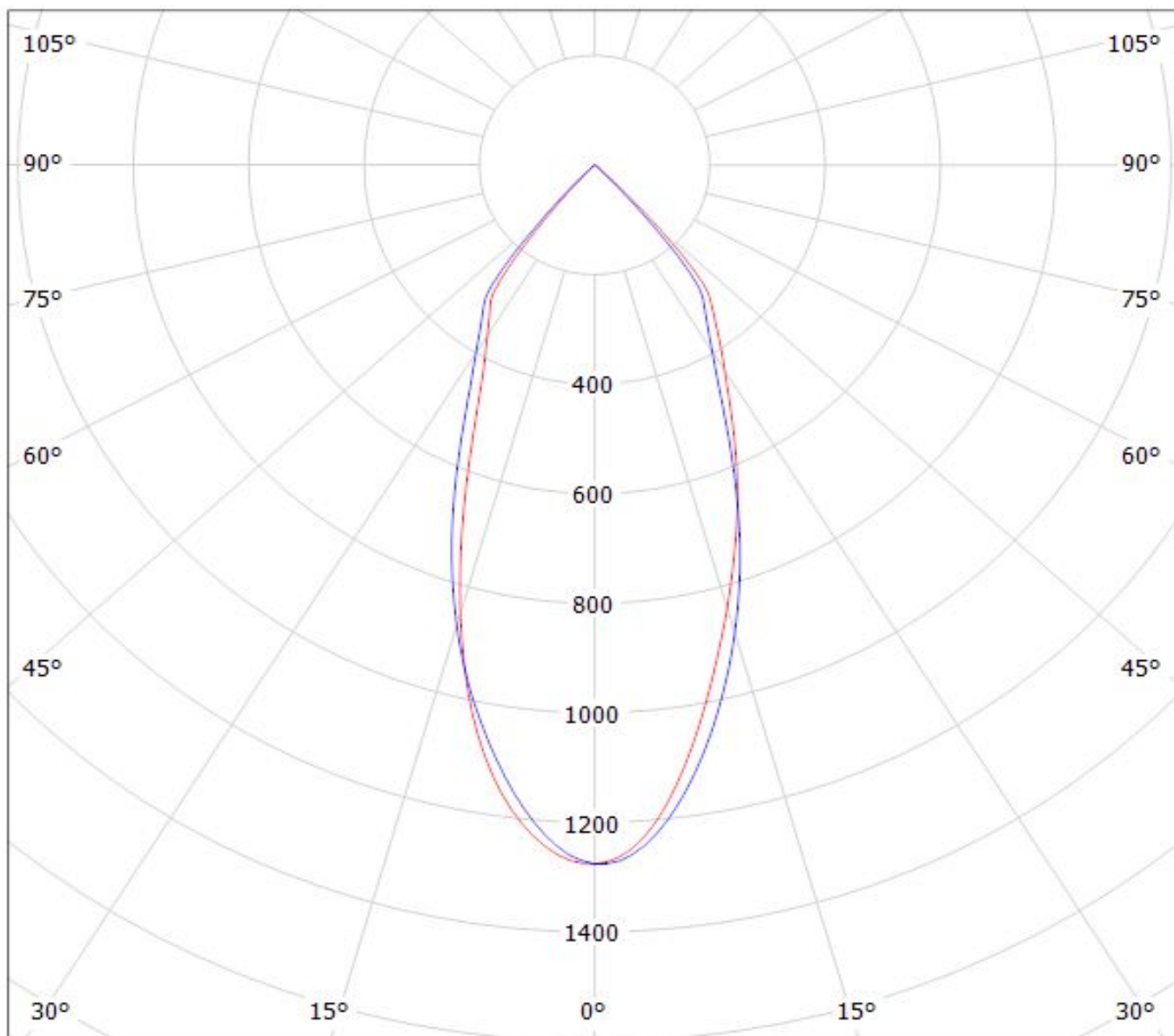


cd/klm

— C0 - C180    — C90 - C270

Luminaire: LEDiL Oy C12482\_MIRELLA-50-W-PIN\_(CREE\_XHP50\_WARM\_WHITE)

Lamps: 1 x CREE\_XHP50\_WARM\_WHITE\_195.126lm@250mA\_P=1.39922W\_I=0.2499A



cd/klm

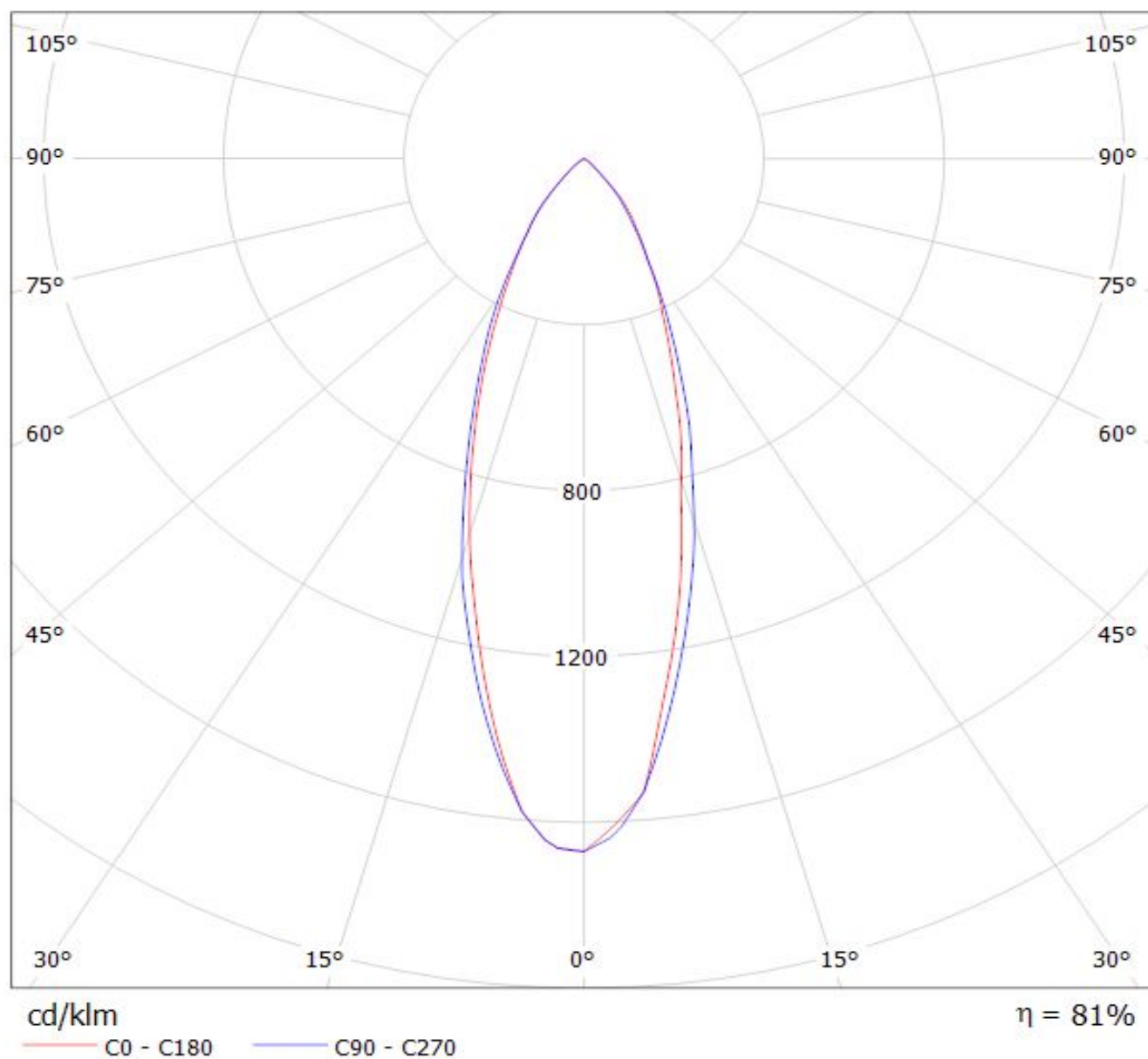
— C0 - C180

— C90 - C270

$\eta = 89\%$

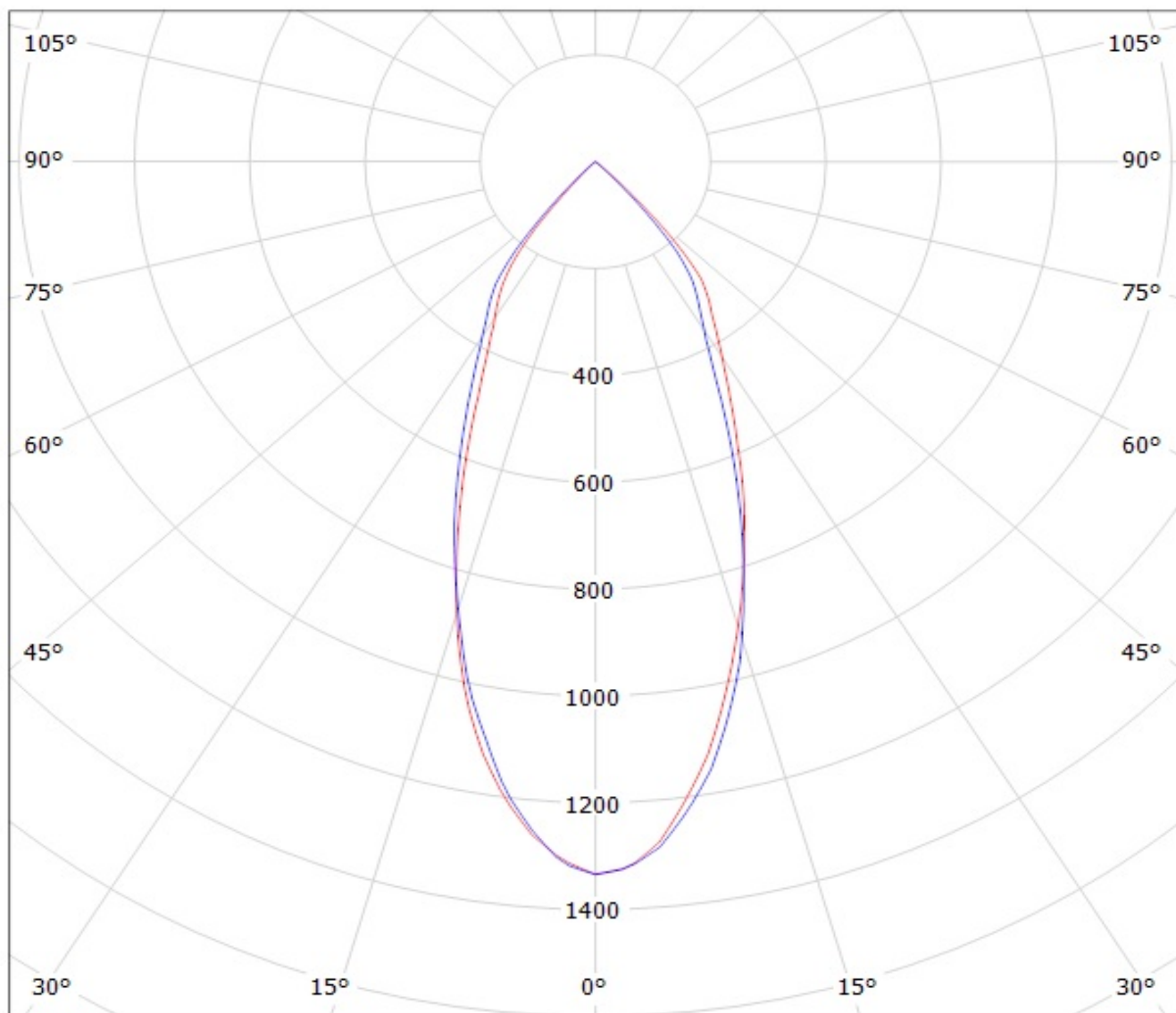


Luminaire: Ledil Oy C12482\_Mirella\_50-W-PIN (Luxeon A 70lm @ 250mA) Efficiency=86%  
Lamps: 1 x Luxeon A 70lm @ 250mA





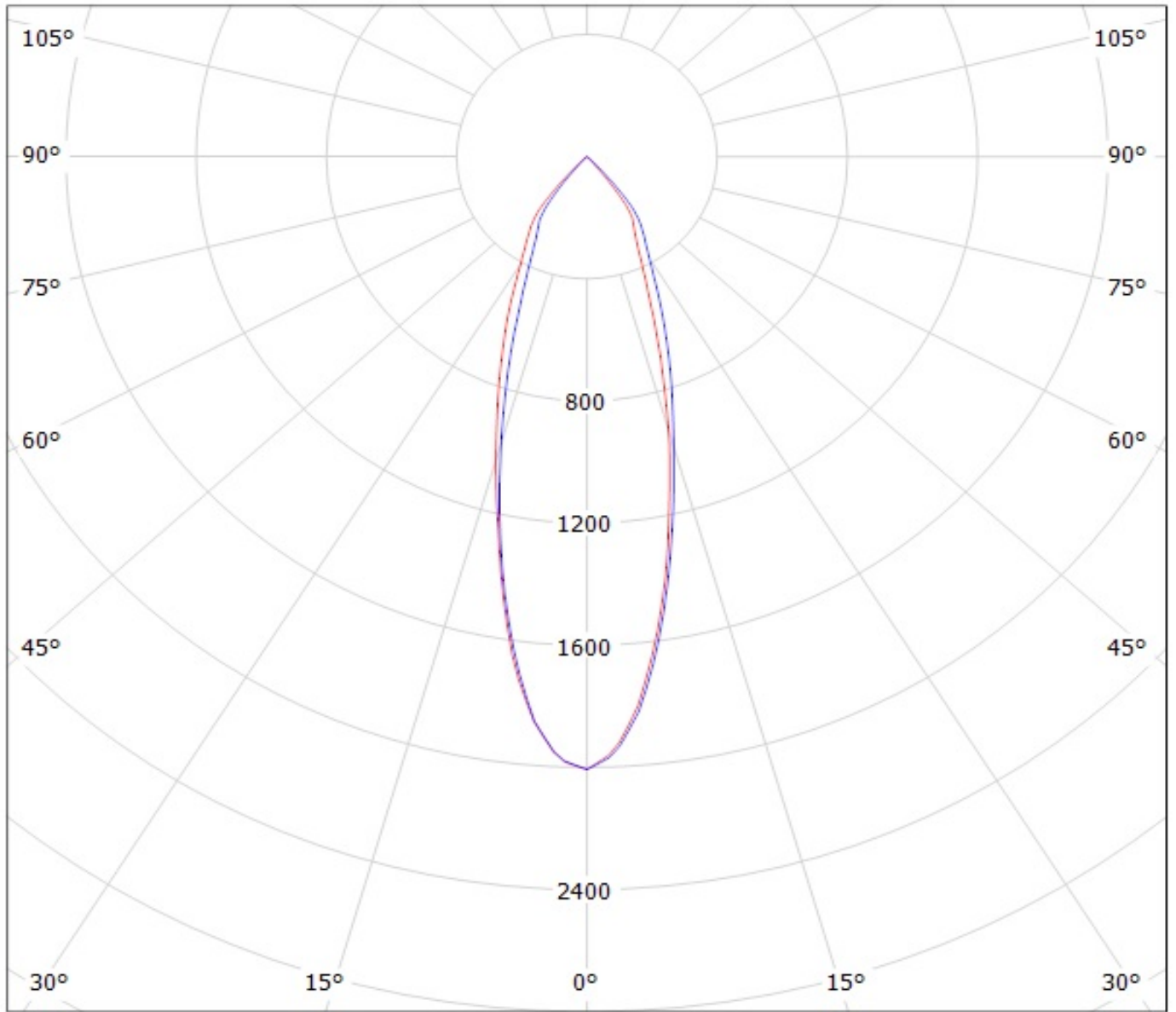
Luminaire: Ledil Oy C12482\_MIRELLA-50-W-PIN\_(Luxeon\_M) Efficiency=87%  
Lamps: 1 x Philips Lumileds Luxeon M (347lm @ 250mA) CCT=4100K P=2.7W I=250mA



cd/klm

— C0 - C180 — C90 - C270

Luminaire: Ledil Oy C12482\_MIRELLA-50-W-PIN\_(Luxeon\_MZ) Efficiency=87%  
Lamps: 1 x Philips Lumileds Luxeon MZ (389lm @ 250mA) CCT=3800K P=2.8W I=250mA

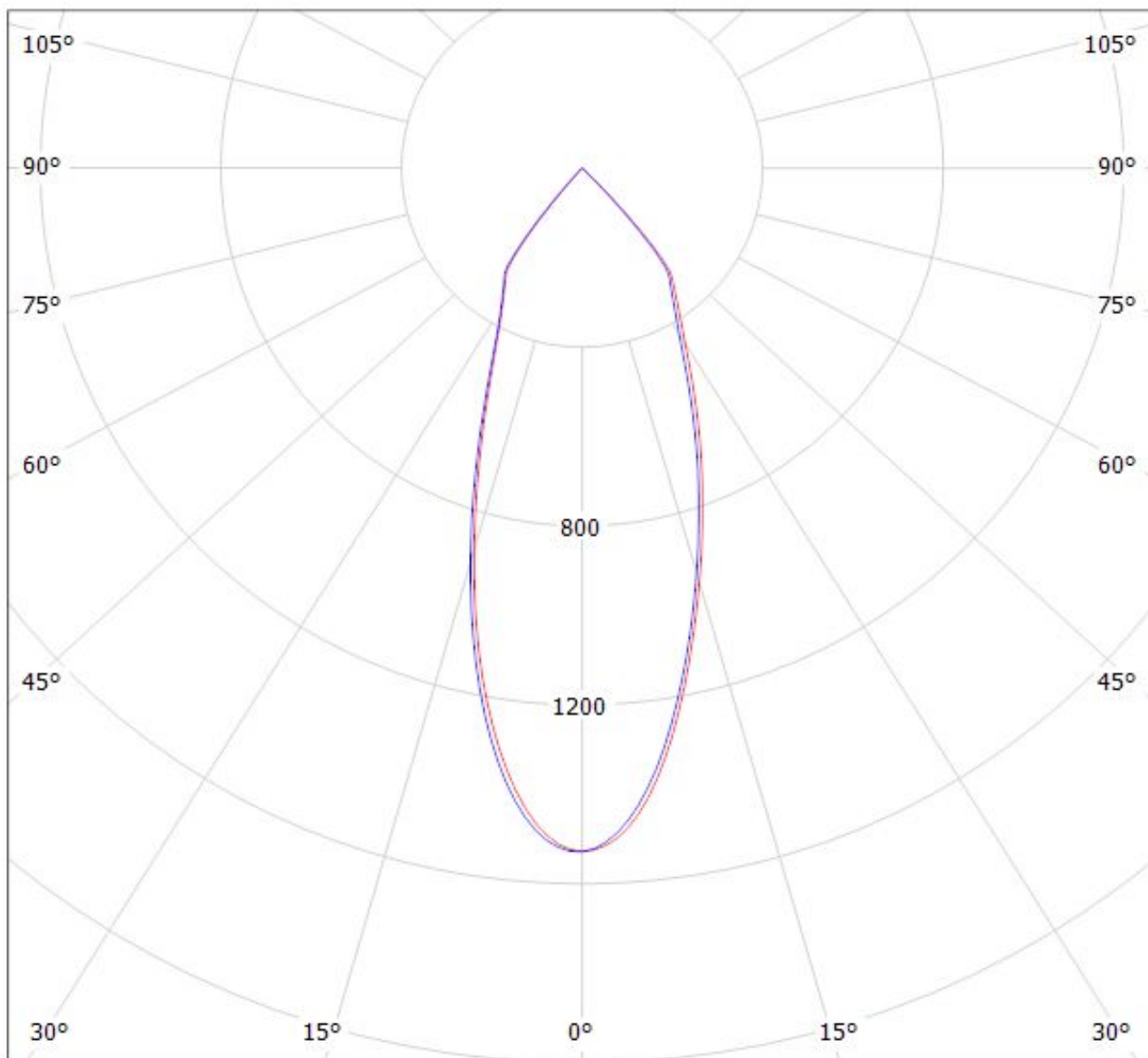


cd/klm

— C0 - C180    — C90 - C270

Luminaire: LEDiL Oy C12482\_MIRELLA-50-W-PIN\_(Luxeon\_5050)

Lamps: 1 x Luxeon\_5050\_316.623lm@80mA\_CCT=5700K\_P=1.82294W\_I=0.080A\_70CRI



cd/klm

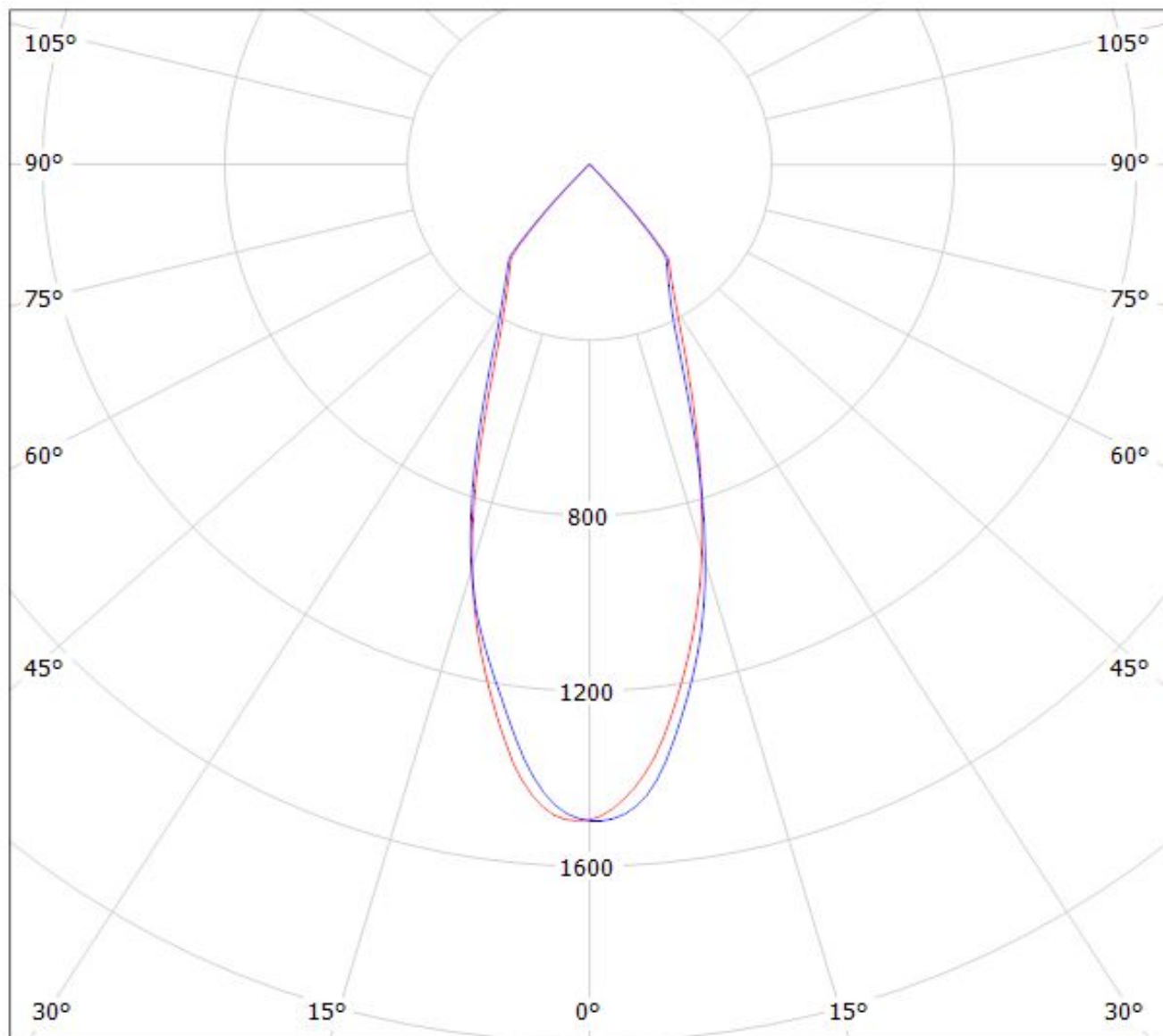
— C0 - C180

— C90 - C270

$\eta = 89\%$

Luminaire: LEDiL Oy C12482\_MIRELLA-50-W-PIN\_(NS9x383) Eff. 88,5%

Lamps: 1 x Nichia NS9x383 (105lm@250mA)



cd/klm

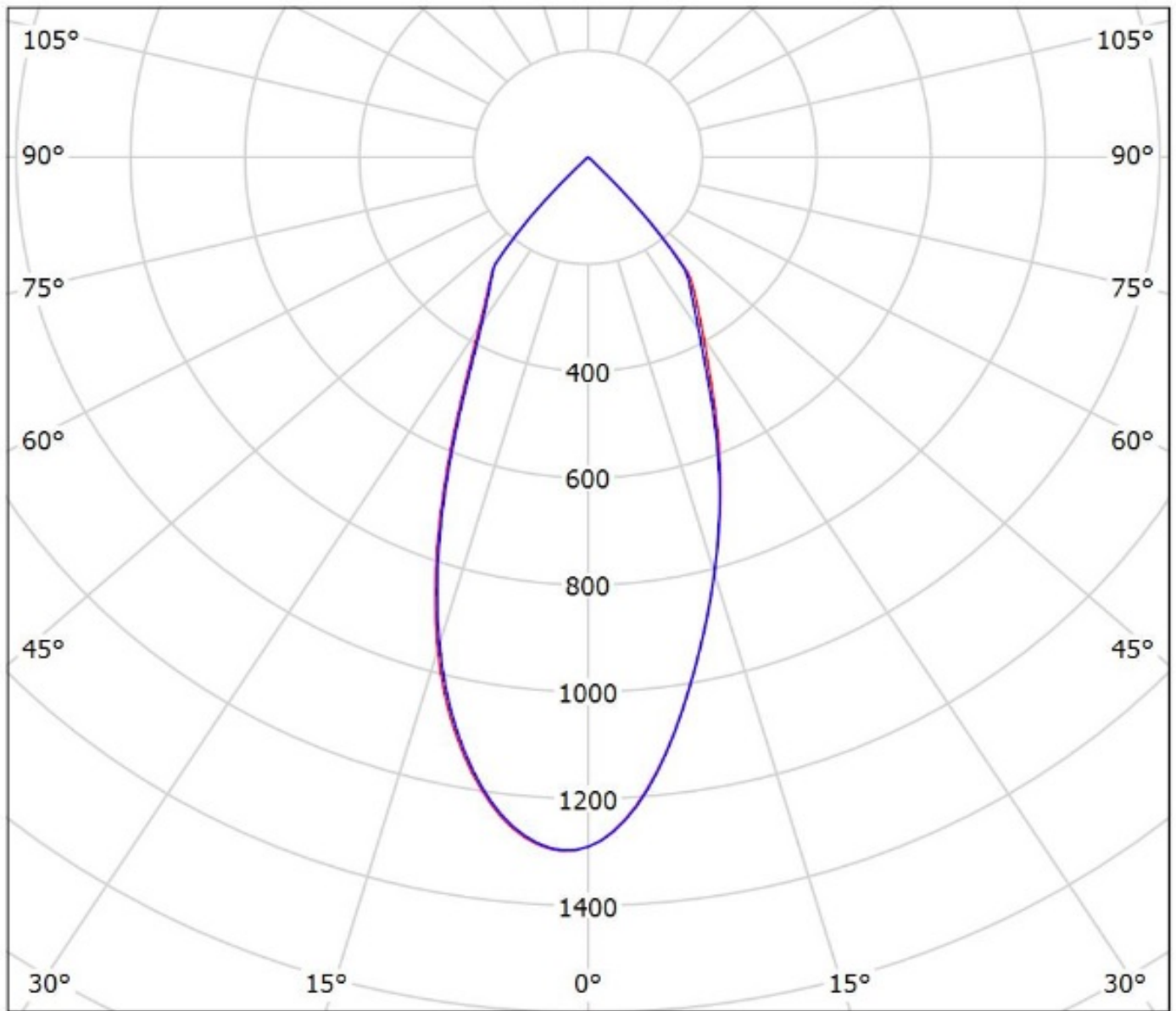
— C0 - C180

— C90 - C270

$\eta = 88\%$

Luminaire: LEDiL Oy C12482\_MIRELLA-50-W-PIN\_(NV4x144A)

Lamps: 1 x Nichia\_NV4x144A\_(NV4W144AR)\_478.341lm@250mA\_P=2.816W\_I=0.250A

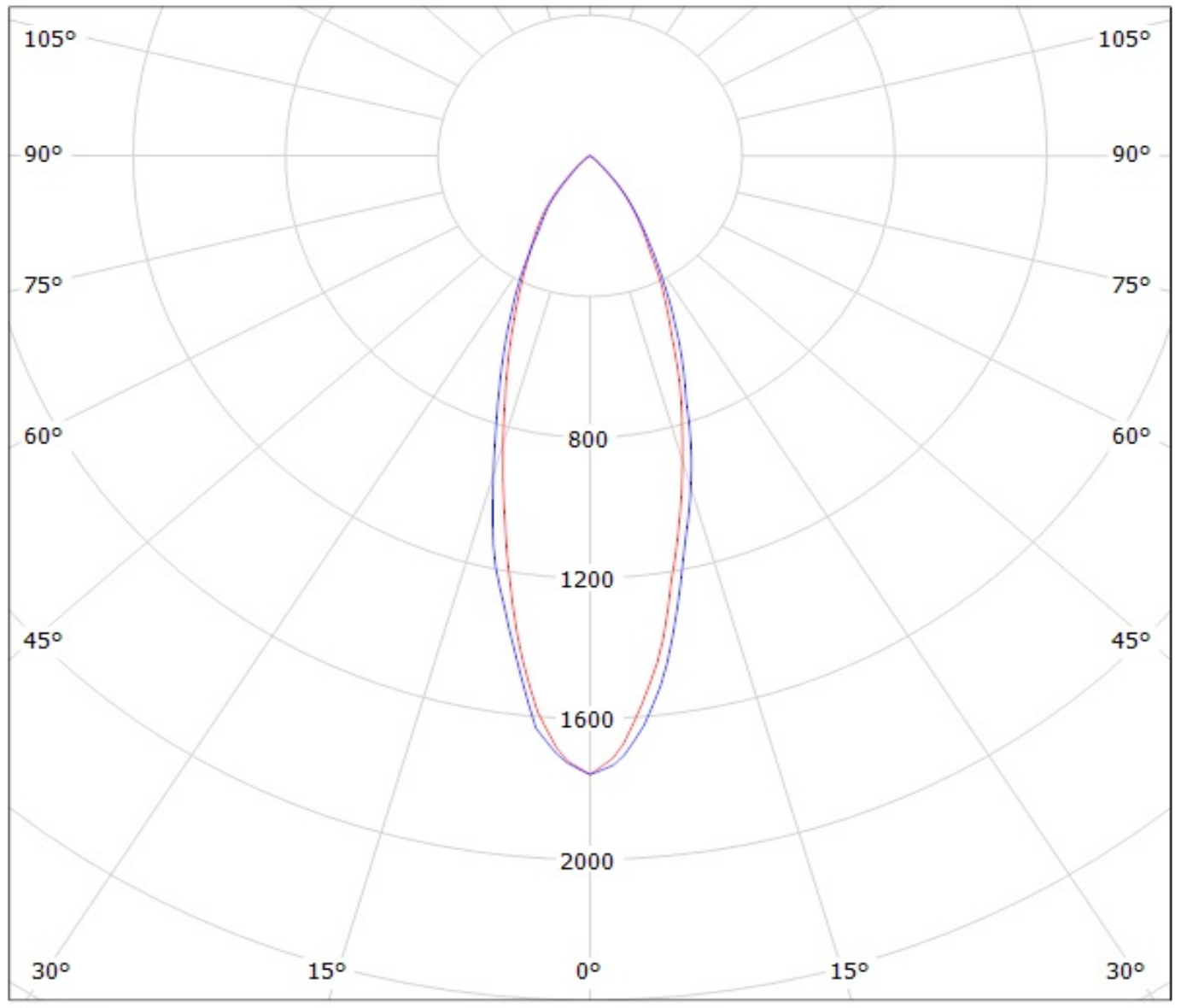


cd/klm

— C0 - C180 — C90 - C270

$\eta = 87\%$

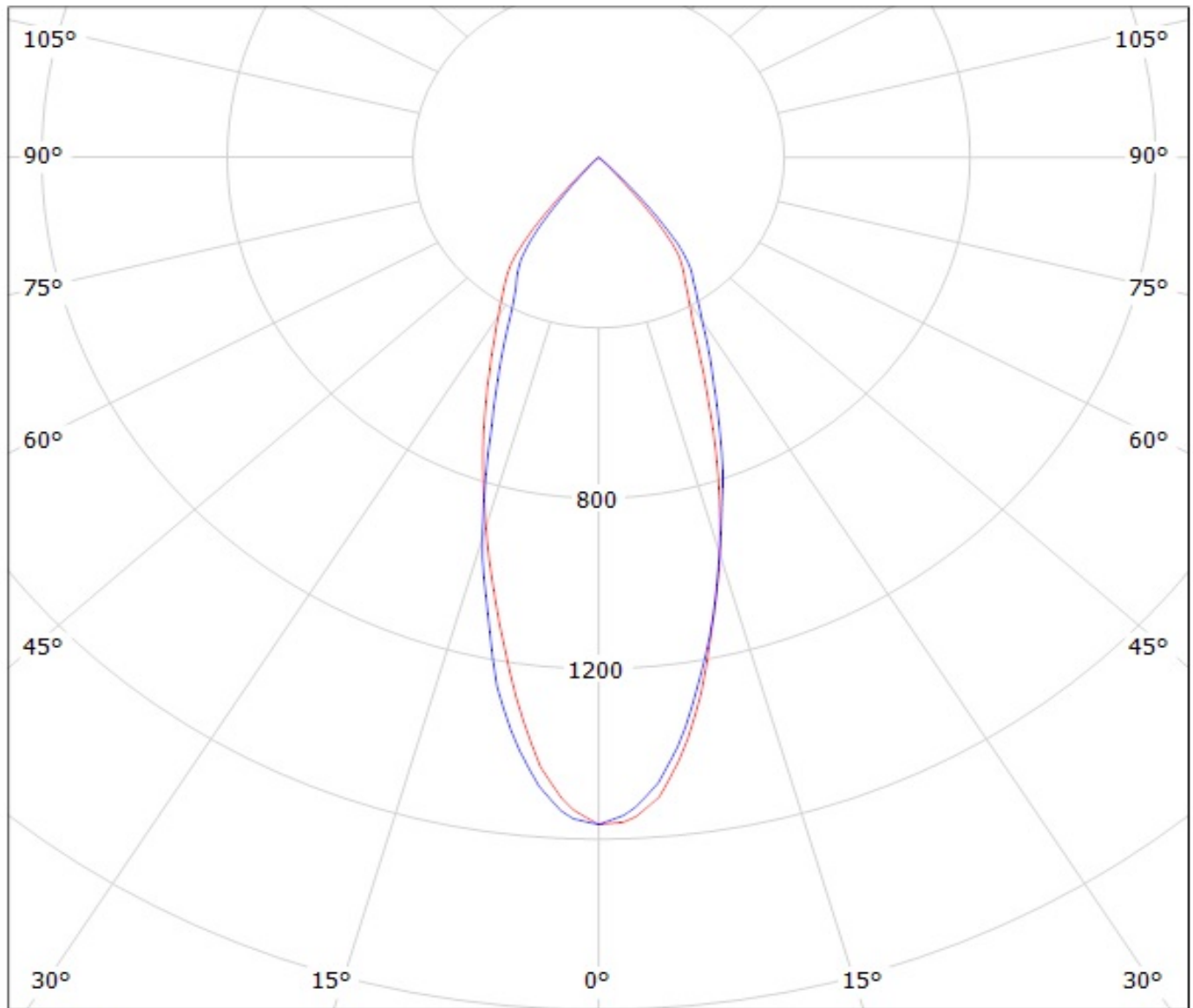
Luminaire: Ledil Oy C12482\_Mirella\_50-W-PIN (Osram Square EC 78lm @ 250mA) Efficiency=85  
Lamps: 1 x Osram Square EC 78lm @ 250mA



cd/klm  
— C0 - C180    — C90 - C270



Luminaire: Ledil Oy C12482\_MIRELLA-50-W-PIN (Osram Duris S8 190lm @ 100mA) Efficiency=88%  
Lamps: 1 x Osram Duris S8 190lm @ 100mA (GWP9LMS1.EC) CCT=2857K P=1,8W I=100mA

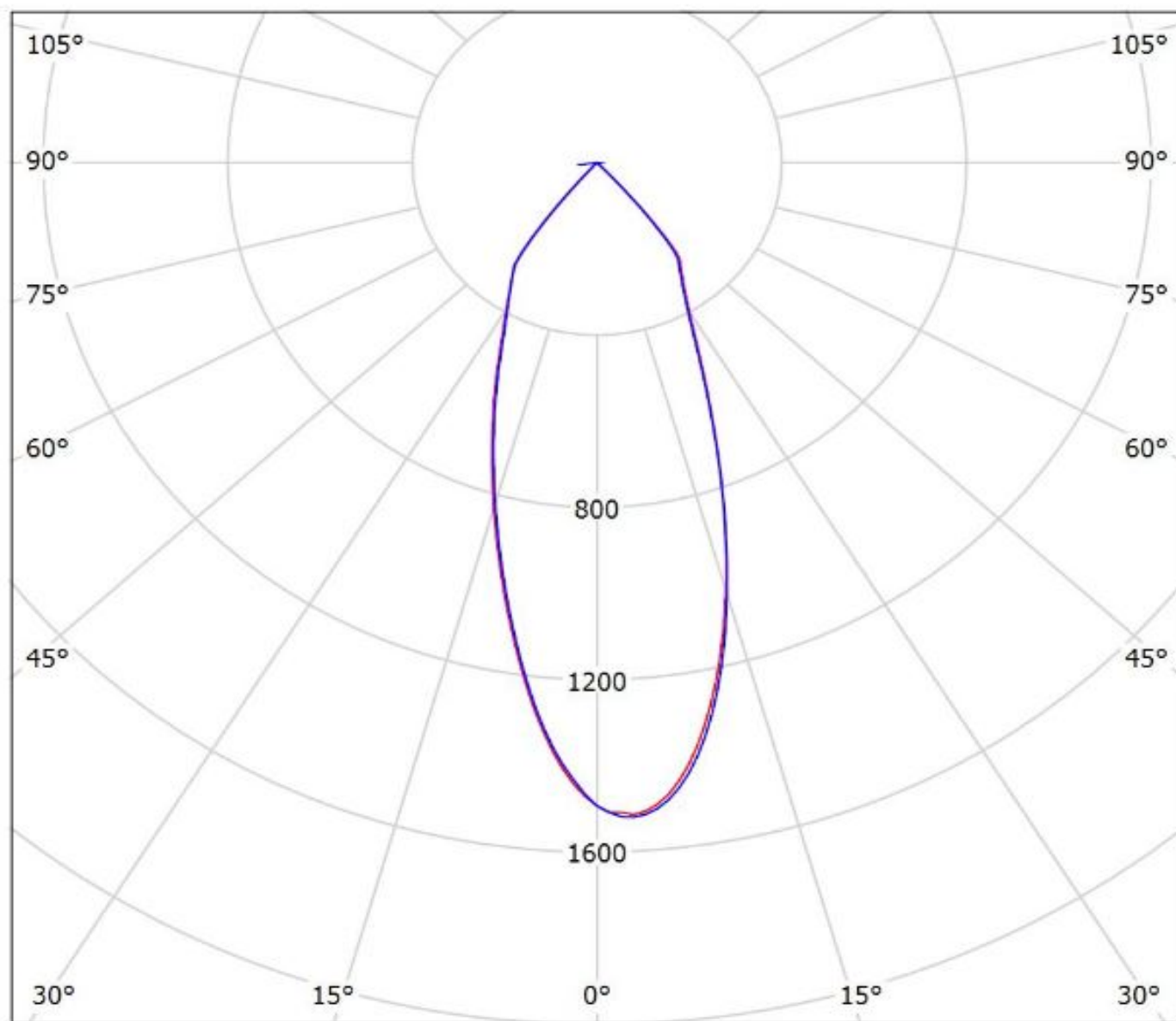


cd/klm

— C0 - C180    — C90 - C270

Luminaire: Ledil C12482\_MIRELLA-50-W-PIN\_(LH508A)

Lamps: 1 x Samsung\_LH508A\_521.239lm@160mA\_CCT=5000K\_CRI=80\_P=3.91403W\_I=0.16A



cd/klm

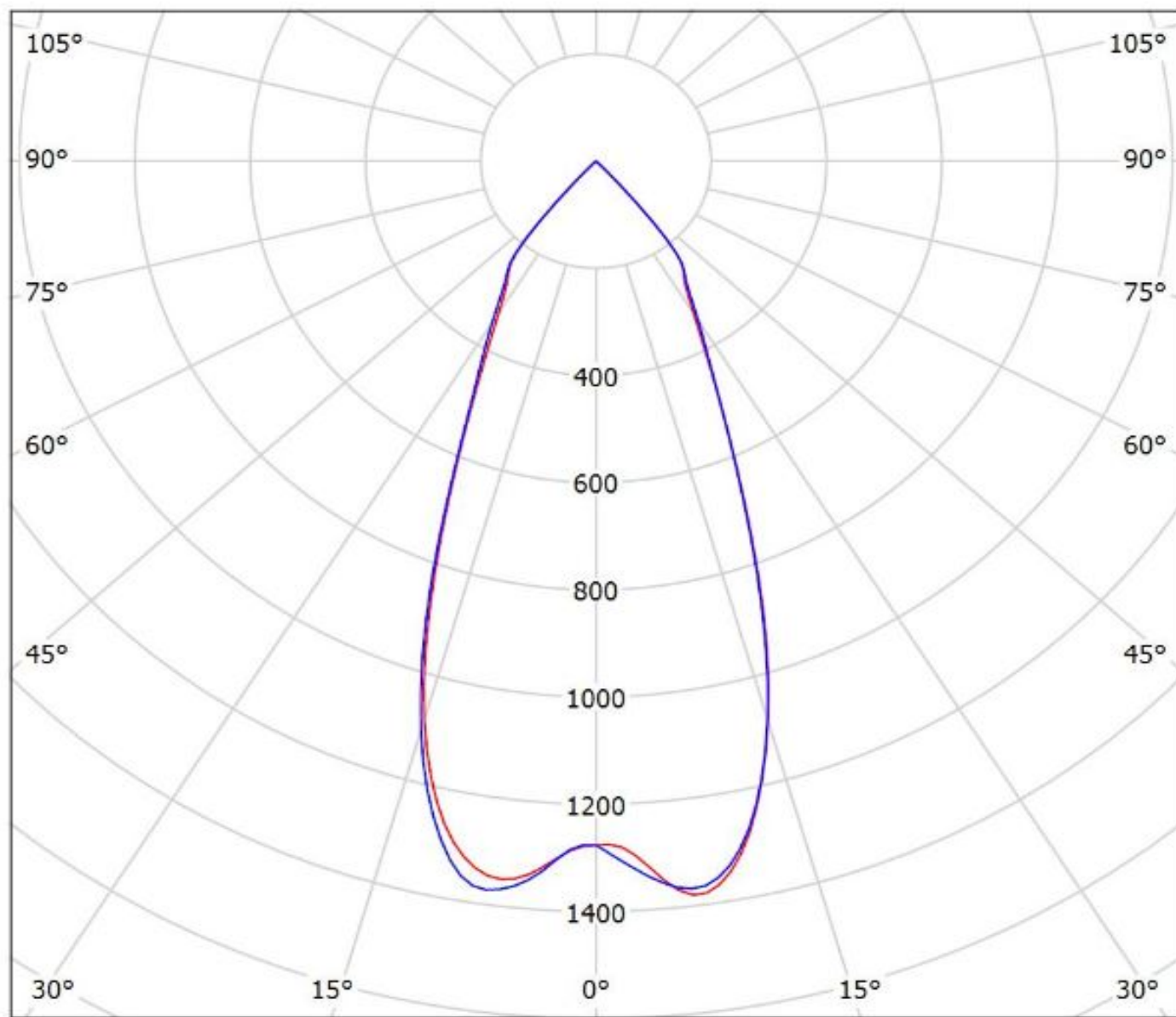
— C0 - C180

— C90 - C270

$\eta = 87\%$



Luminaire: Ledil Oy C12482\_MIRELLA-50-W-PIN\_SEOUL\_Z8Y22+\_SIMULATED  
Lamps: 1 x SEOUL Z8Y22 Plus



cd/klm

— C0 - C180 — C90 - C270

$\eta = 89\%$

**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.**