

## DETAILS

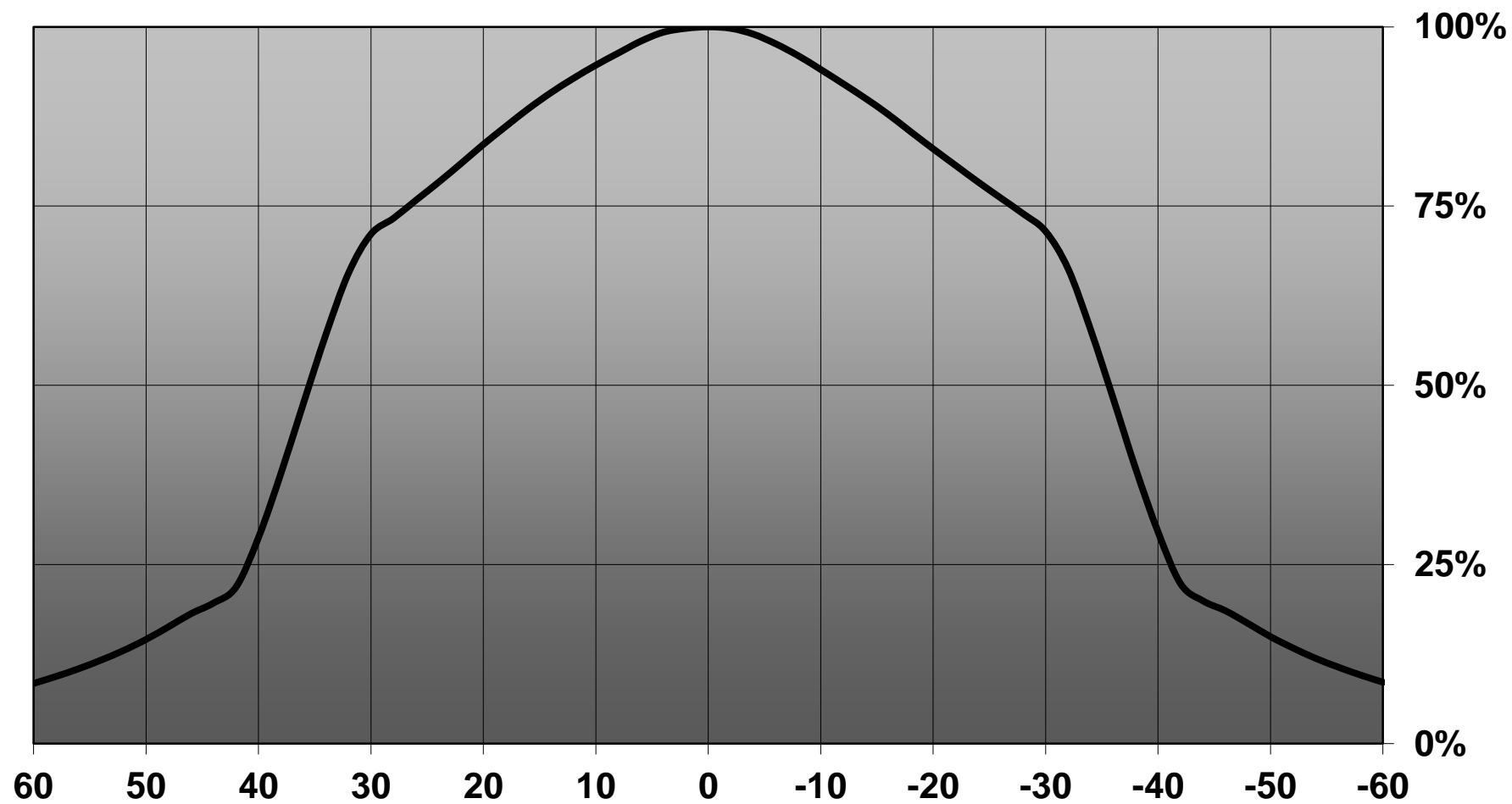
Product Number	FCN14311_BARBARA-XW-PF-VERO13/18
Family	Barbara
Type	RefPack
Color	metal
Diameter	70 mm
Height	42,25 mm
Style	round
Optic Material	PC
Holder Material	PC
Fastening	screw
Status	production ready
ROHS Compliant	Yes
Date Updated	11/09/2015

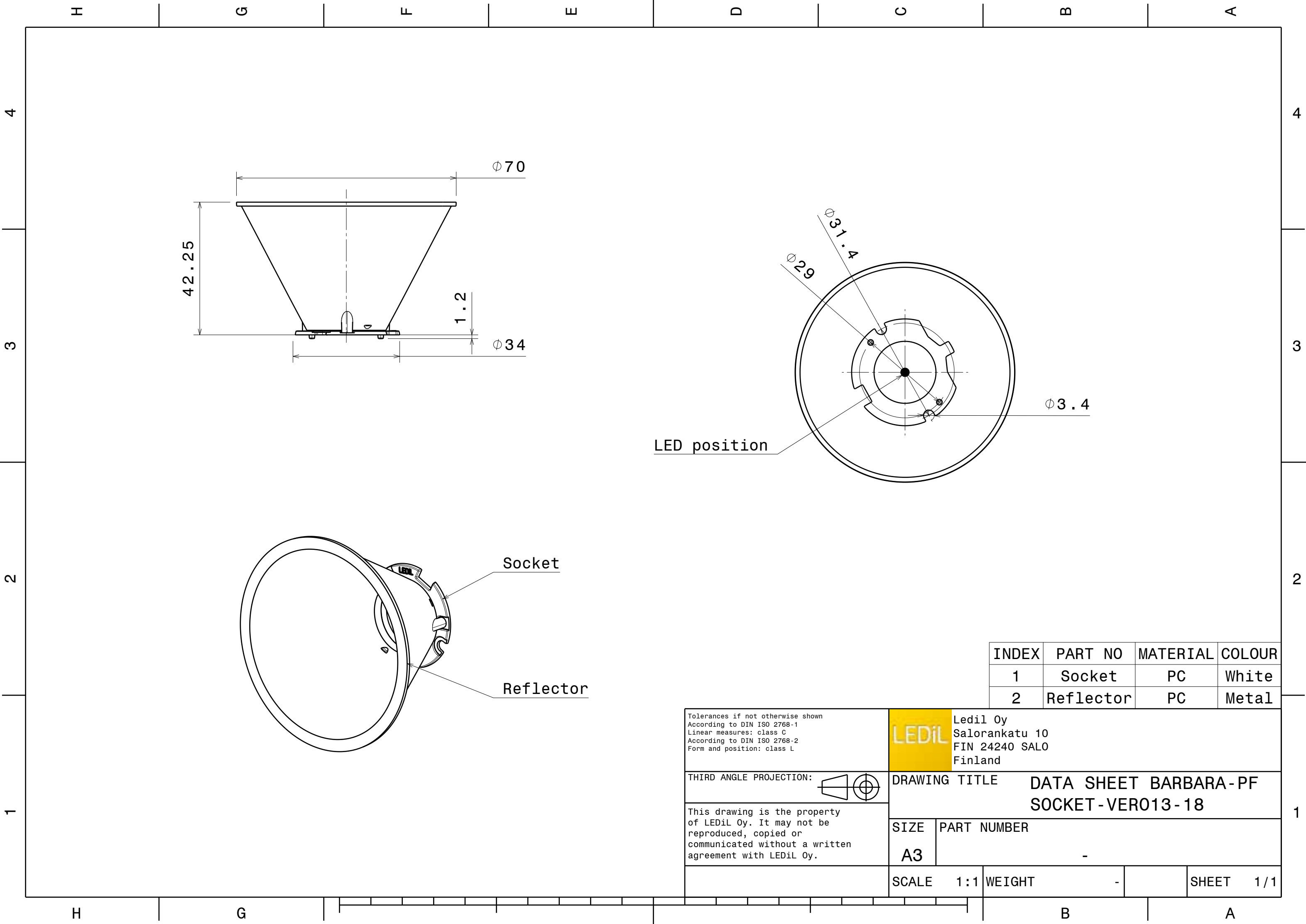


## OPTICAL PROPERTIES

LED	Viewing Angle	Light Beam	Efficiency	cd/lm	Connector
CXM-14	sim: 70		sim: 90 %	sim: 0.700	Bender Wirth: 433 Typ L1
ZC12/18	sim: 70		sim: 90 %	sim: 0.680	Bender Wirth: 433 Typ L1
CXM-9	sim: 70		sim: 90 %	sim: 0.720	Bender Wirth: 434 Typ L1
ZC4/6	sim: 70		sim: 90 %	sim: 0.720	Bender Wirth: 434 Typ L1
LC010C	sim: 66		sim: 89 %	sim: 0.910	Bender Wirth: 479 Typ L1
LC020C	sim: 70		sim: 88 %	sim: 0.810	Bender Wirth: 479 Typ L1
LC040C	sim: 70		sim: 84 %	sim: 0.730	Bender Wirth: 480 Typ L1
Soleriq P6	67 deg		86 %	0.860	Bender Wirth: 446 Typ L1
CXA/B 1816 & CXA/B 1820 & CXA 1850	67 deg		82 %	0.700	Bender Wirth: 437 Typ L1
Soleriq P13	70 deg		89 %	0.670	Bender Wirth: 437 Typ L1
NSBxL066A/NFCxL036B	70 deg		90 %	0.710	Bender Wirth: 438 Typ L1
Soleriq S13	70 deg		90 %	0.690	Bender Wirth: 437 Typ L1
J216A/J130B/J108B/J048Z	70 deg		89 %	0.670	Bender Wirth: 463 Typ L2
L121A/L060B/L024Z	70 deg		90 %	0.680	Bender Wirth: 438 Typ L1
CXA/B 15xx	70 deg		90 %	0.720	Bender Wirth: 441 Typ L1
CLU700	70 deg		90 %	0.770	Bender Wirth: 434 Typ L1
CLL02x/CLU02x (LES10)	70 deg		90 %	0.720	Bender Wirth: 434 Typ L1
LC026B/LC040B	70 deg		90 %	0.560	Bender Wirth: 450 Typ L2
SLE G5 LES11	70 deg		90 %	0.700	Bender Wirth: 434 Typ L1
V15	71 deg		89 %	0.720	Bender Wirth: 456 Typ L2
Soleriq P9	71 deg		90 %	0.710	Bender Wirth: 461 Typ L1
LUXEON CoB 1202/1203	71 deg		90 %	0.710	Bender Wirth: 438 Typ L1
VERO13	72 deg		93 %	0.670	-
VERO18	72 deg		93 %	0.630	-

Relative intensity of FCN14311\_BARBARA-XW-PF-VERO13\_18\_(V15)





INDEX	PART NO	MATERIAL	COLOUR
1	Socket	PC	White
2	Reflector	PC	Metal

Tolerances if not otherwise shown  
According to DIN ISO 2768-1  
Linear measures: class C  
According to DIN ISO 2768-2  
Form and position: class L

THIRD ANGLE PROJECTION:

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Ledil Oy  
Salorankatu 10  
FIN 24240 SALO  
Finland

DRAWING TITLE

DATA SHEET BARBARA-PF  
SOCKET-VERO13-18

SIZE

A3

PART NUMBER

-

SCALE

1:1

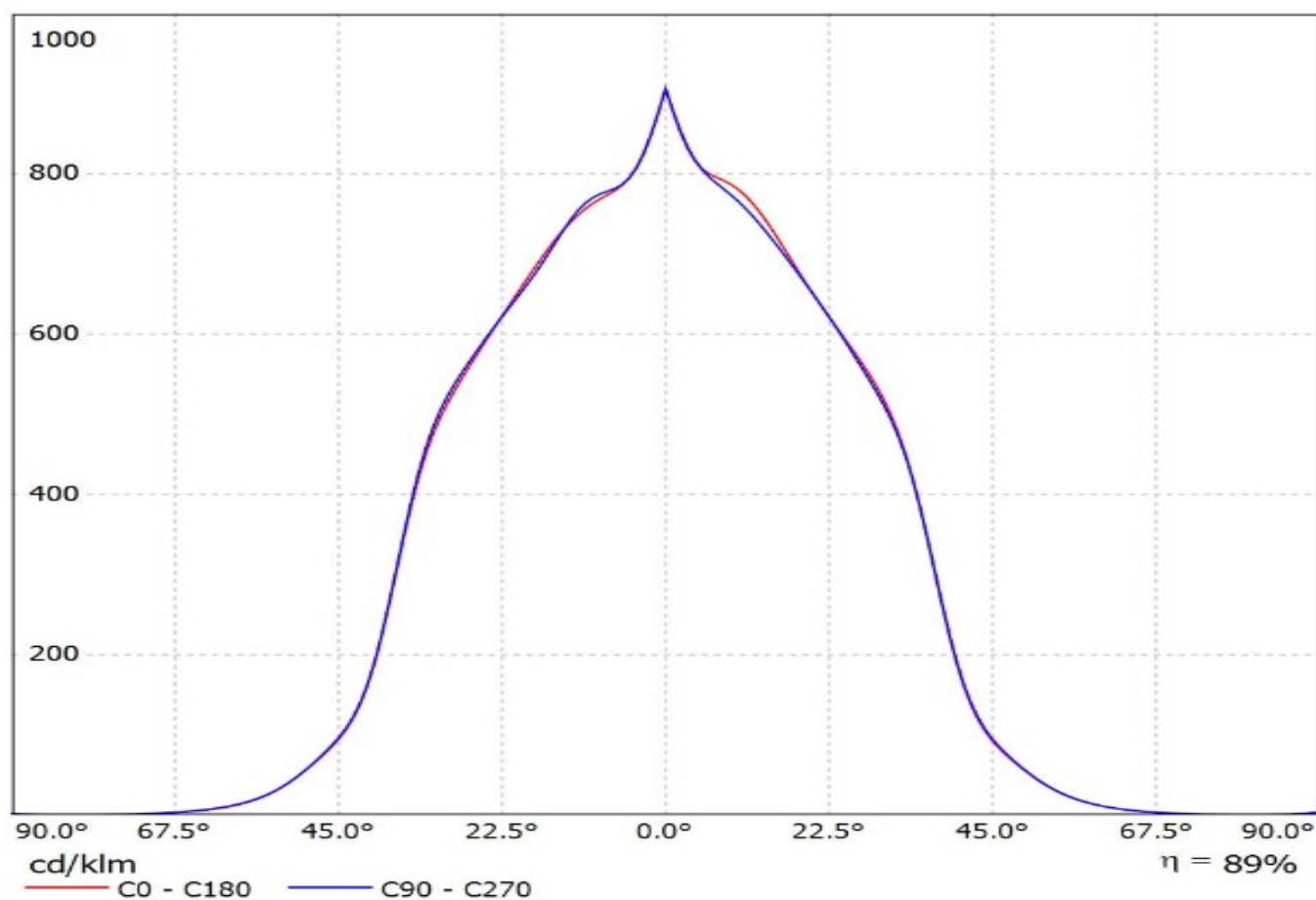
WEIGHT

-

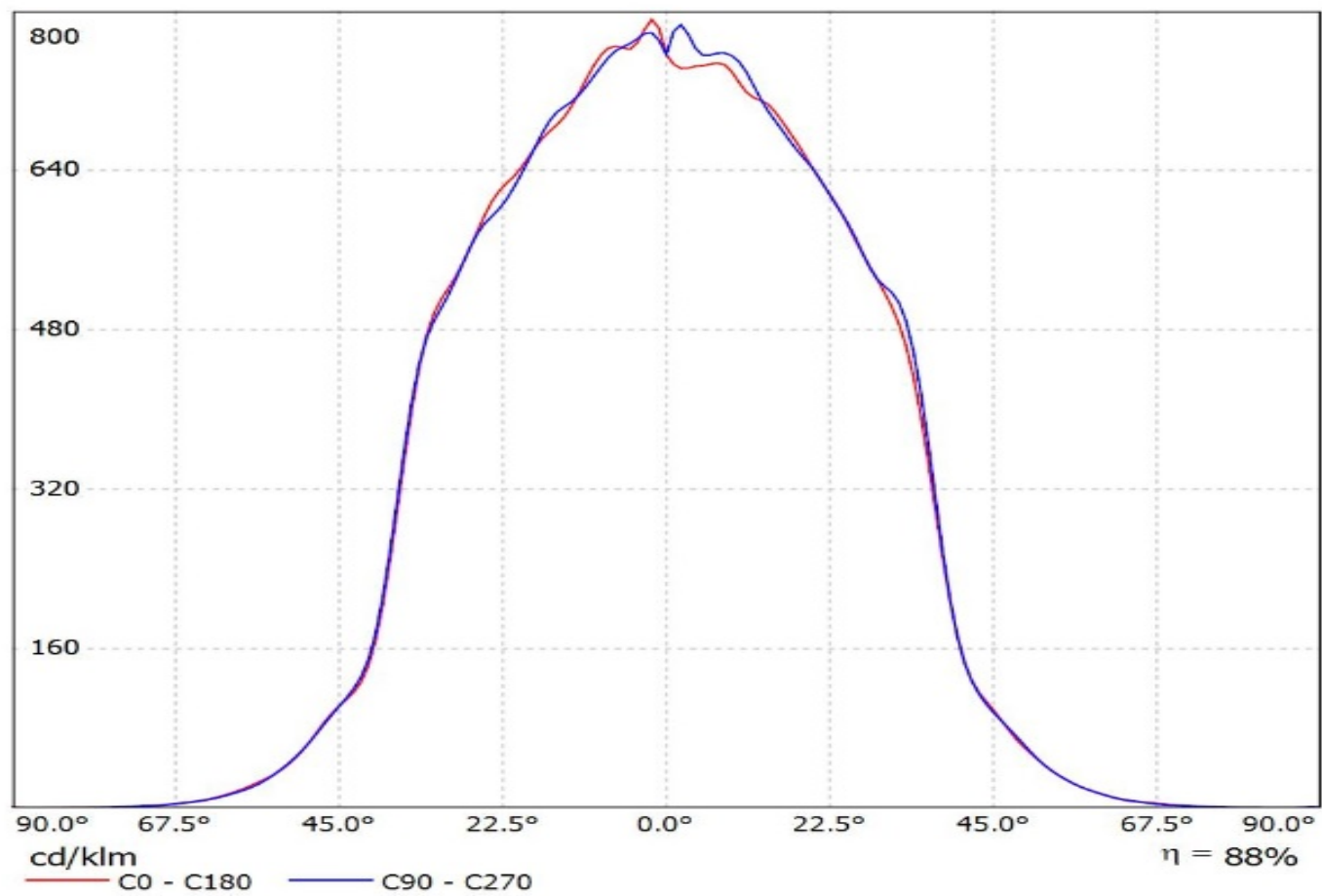
SHEET

1/1

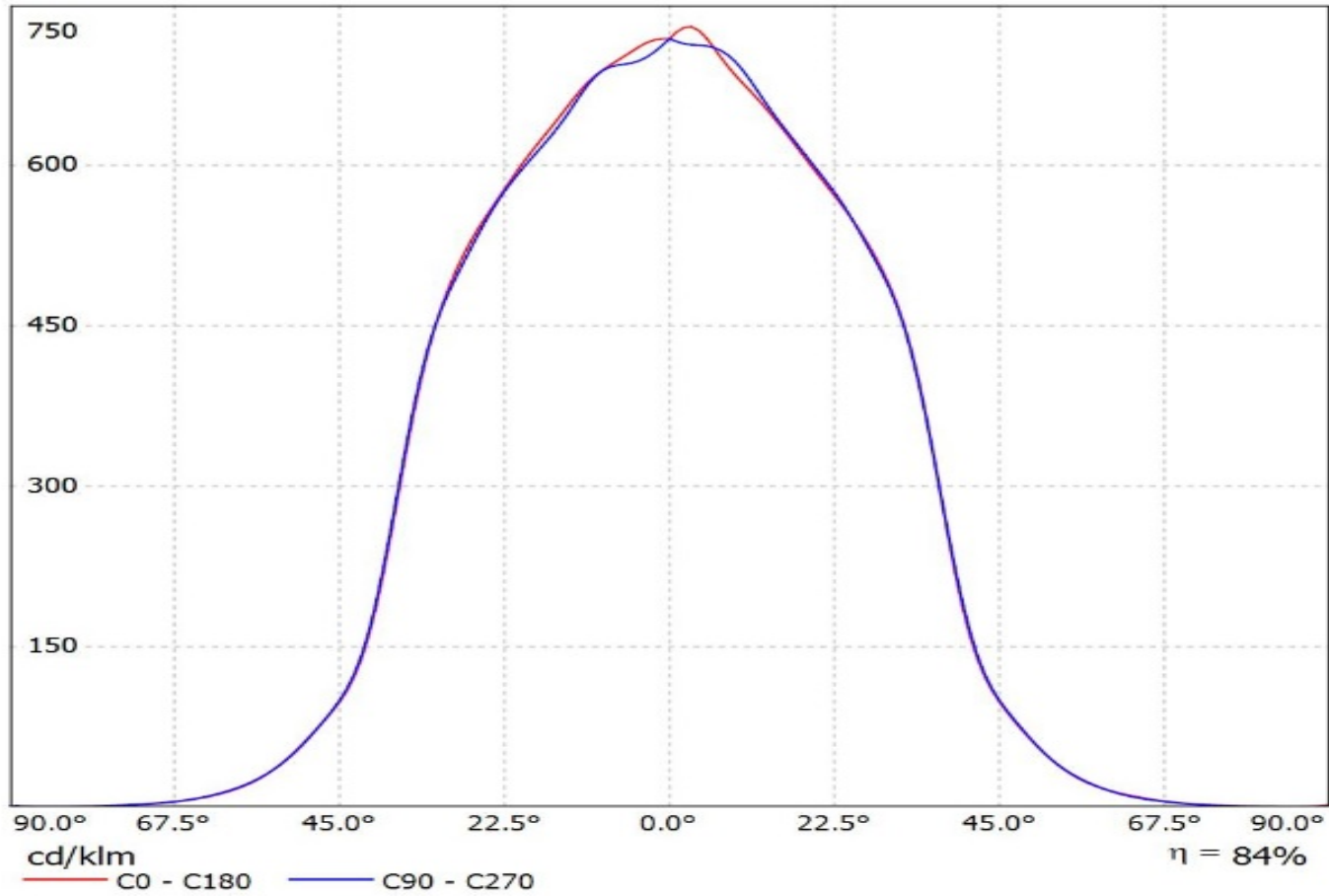
Luminaire: Ledil Oy FCN14311\_BARBARA-XW-PF-VERO13-18\_(LC010C)\_(B+W\_479\_Typ\_L1)\_SIMULATED  
Lamps: 1 x Samsung LC010C + Bender & Wirth 479 Type L1



Luminaire: Ledil Oy FCN14311\_BARBARA-XW-PF-VERO13-18\_(LC020C)\_(B+W\_479\_Typ\_L1)\_SIMULATED  
Lamps: 1 x Samsung LC020C + Bender & Wirth 479 Type L1



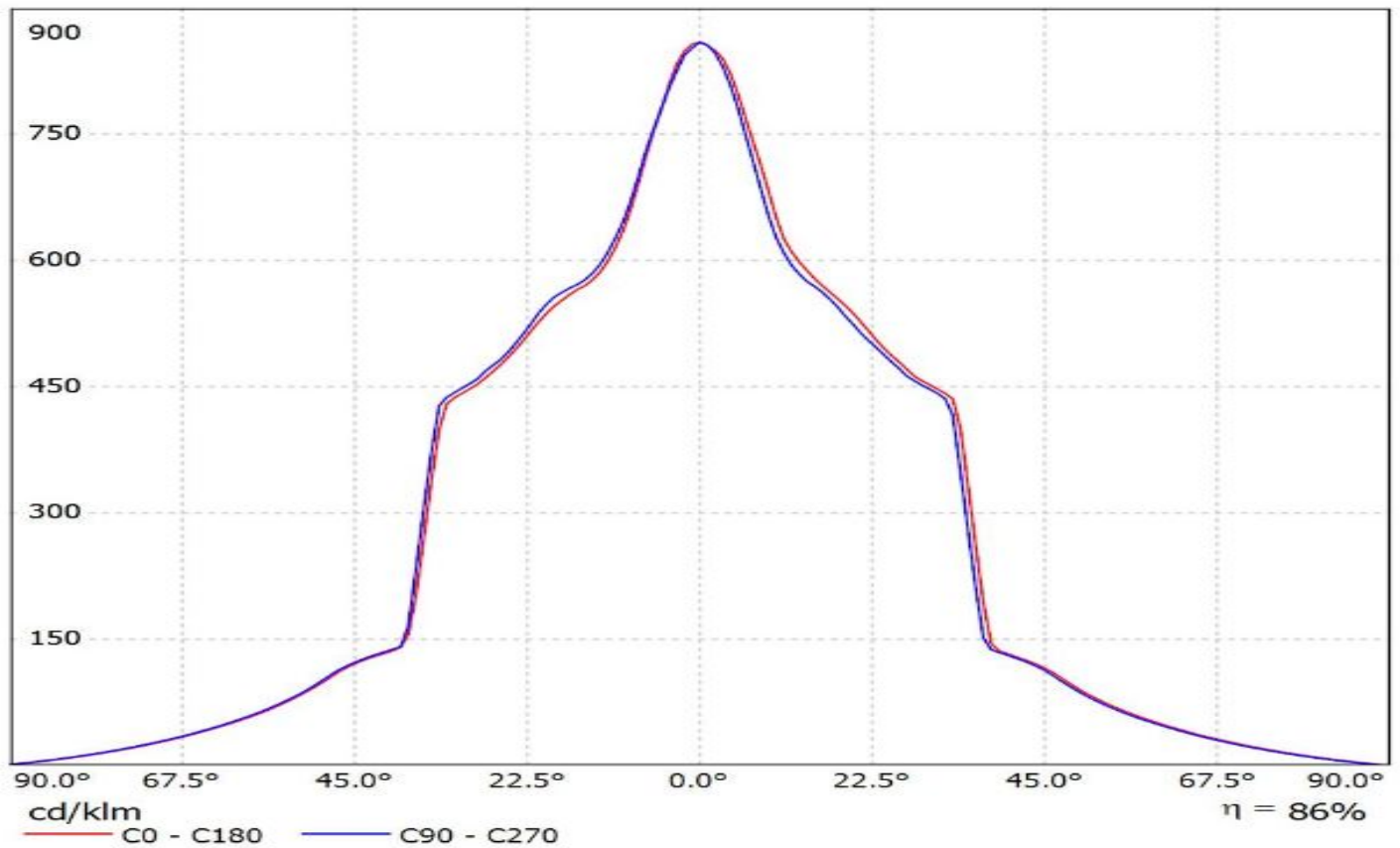
Luminaire: Ledil Oy FCN14311\_BARBARA-XW-PF-VERO13-18\_(LC040C)\_(B+W\_480\_Typ\_L1)\_SIMULATED  
Lamps: 1 x Samsung LC040C + Bender & Wirth 480 TYpe L1



## Ledil FCN14311\_BARBARA-XW-PF-VERO13/18\_(P6) / LDC (Linear)

Luminaire: Ledil FCN14311\_BARBARA-XW-PF-VERO13/18\_(P6)

Lamps: 1 x Osram\_Soleric\_P6\_(GW\_MAEGB1.EM)\_504.127lm@250mA\_P=6.28598W\_I=0.25A

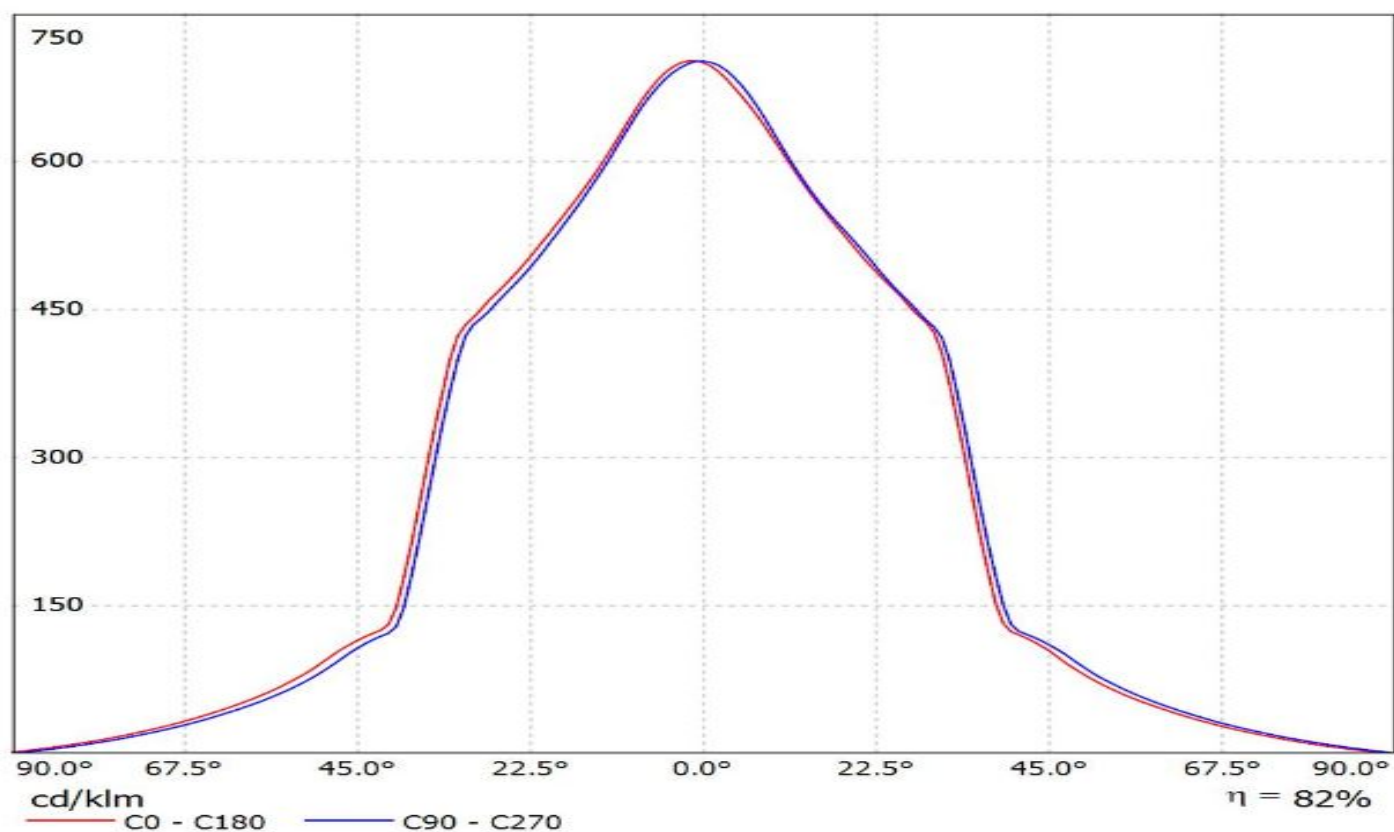


## Ledil FCN14311\_BARBARA-XW-PF-VERO13-18\_(CXA1850) / LDC (Linear)

Luminaire: Ledil FCN14311\_BARBARA-XW-PF-VERO13-18\_(CXA1850)

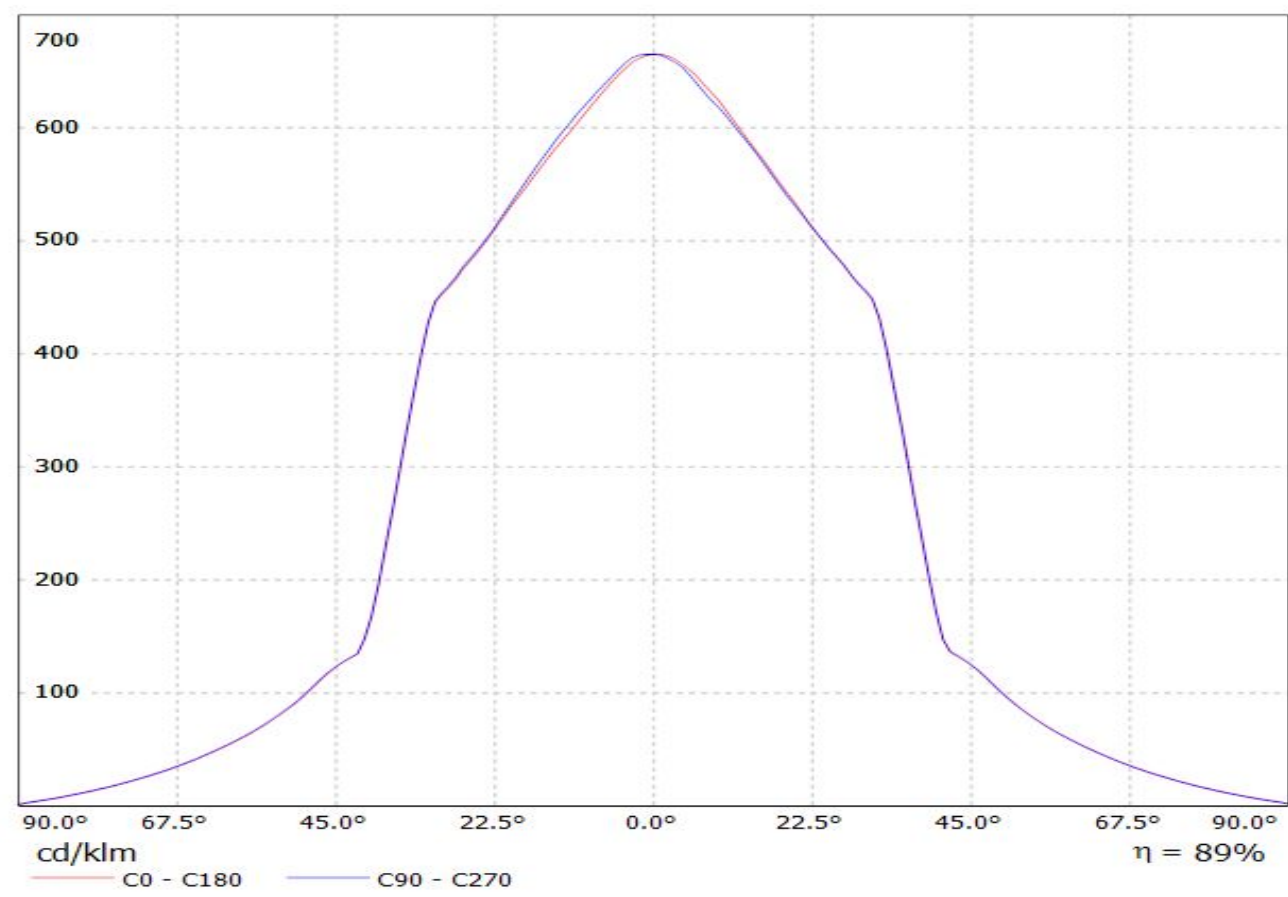
Lamps: 1 x CREE\_CXA1850\_(CXA1850-30F-T4-N0Y-00001)

\_847.836lm@250mA\_CCT=3000K\_P=8.27W\_I=0.25A

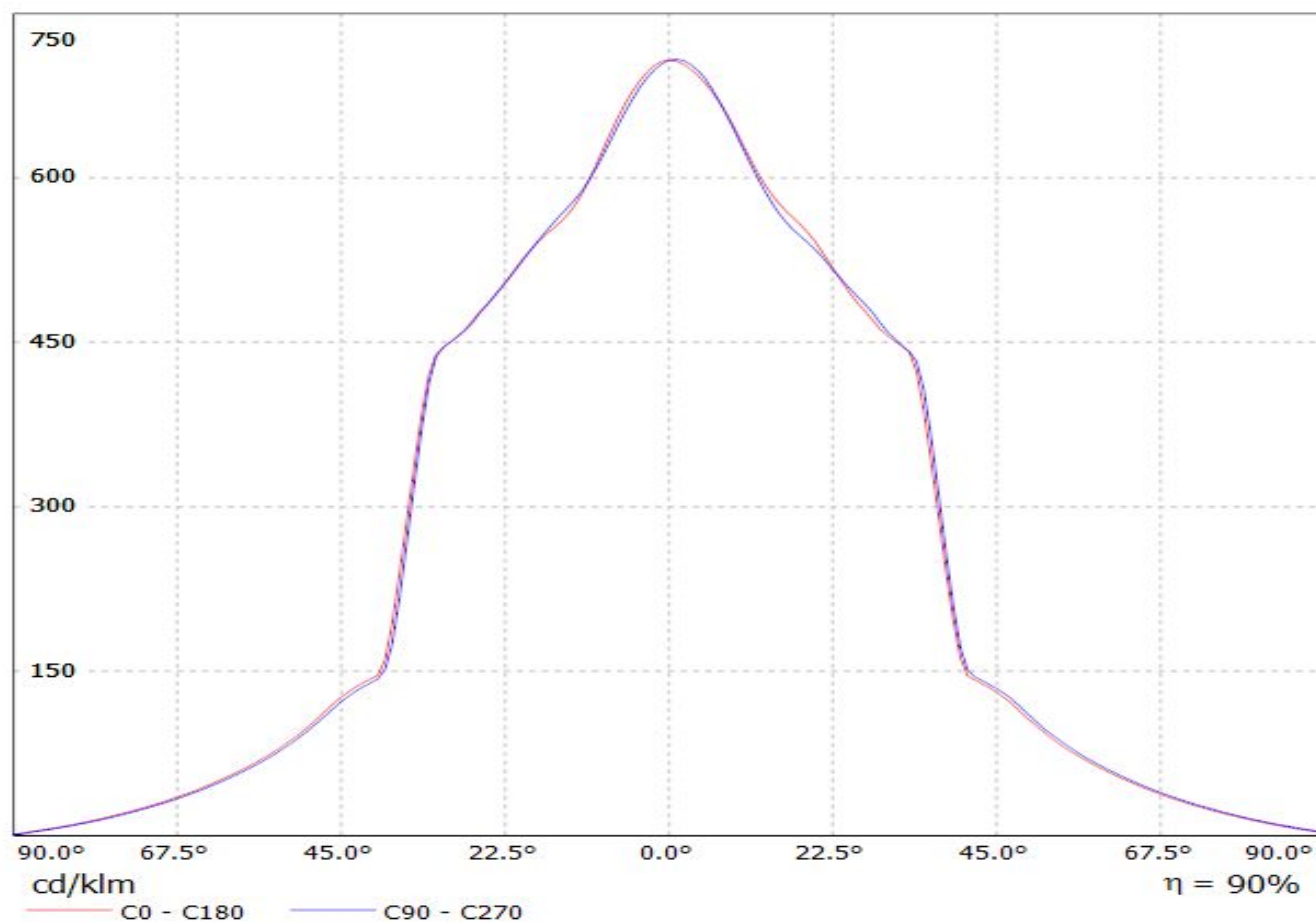




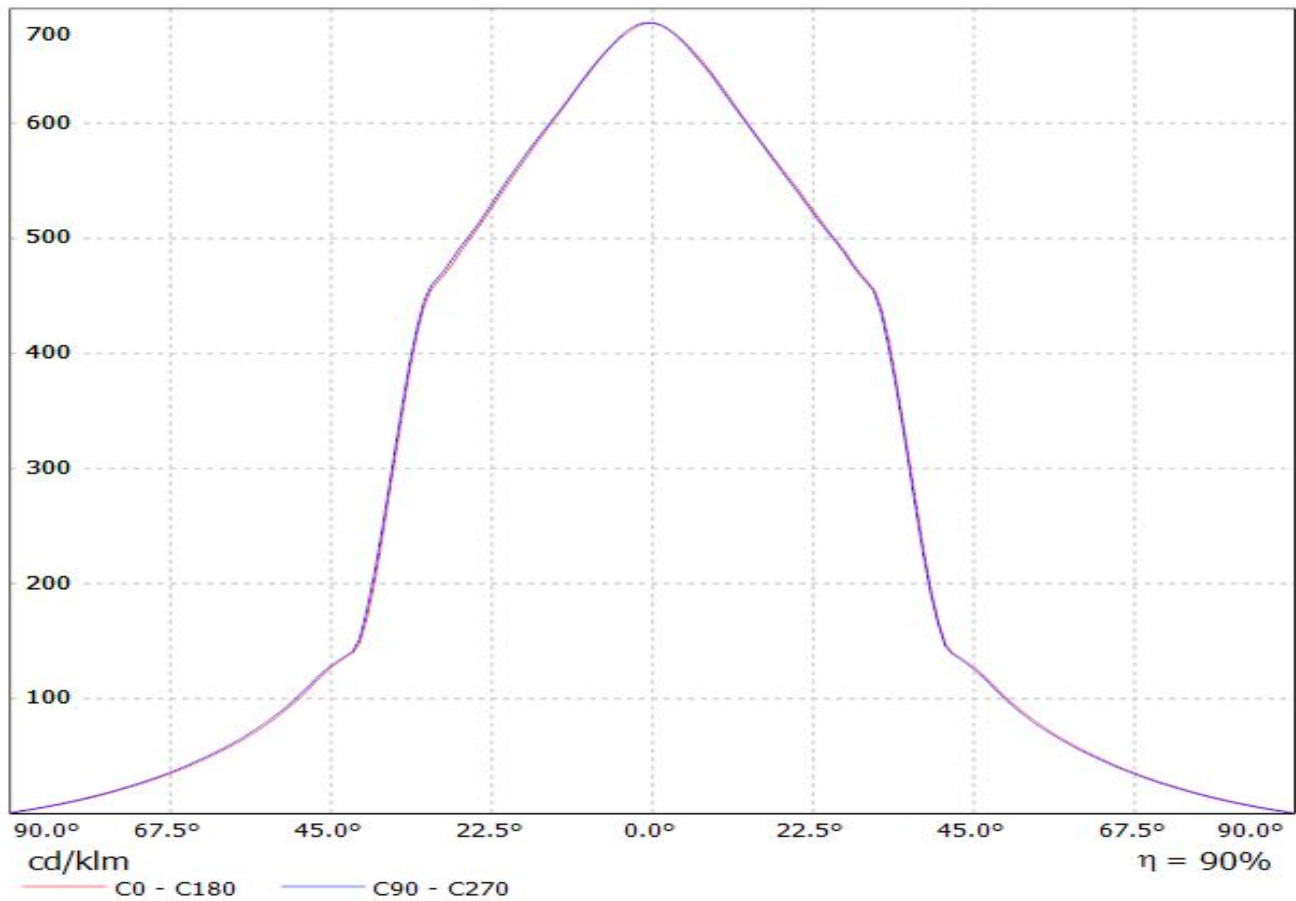
Luminaire: LEDiL Oy FCN14311\_BARBARA-XW-PF-VERO13/18\_(Soleriq P13)  
Lamps: 1 x Osram Soleriq P13 (GW MAGMB1.EM)\_921.649lm@250mA\_CCT=3500K\_P=8.8097W\_I=0.25A



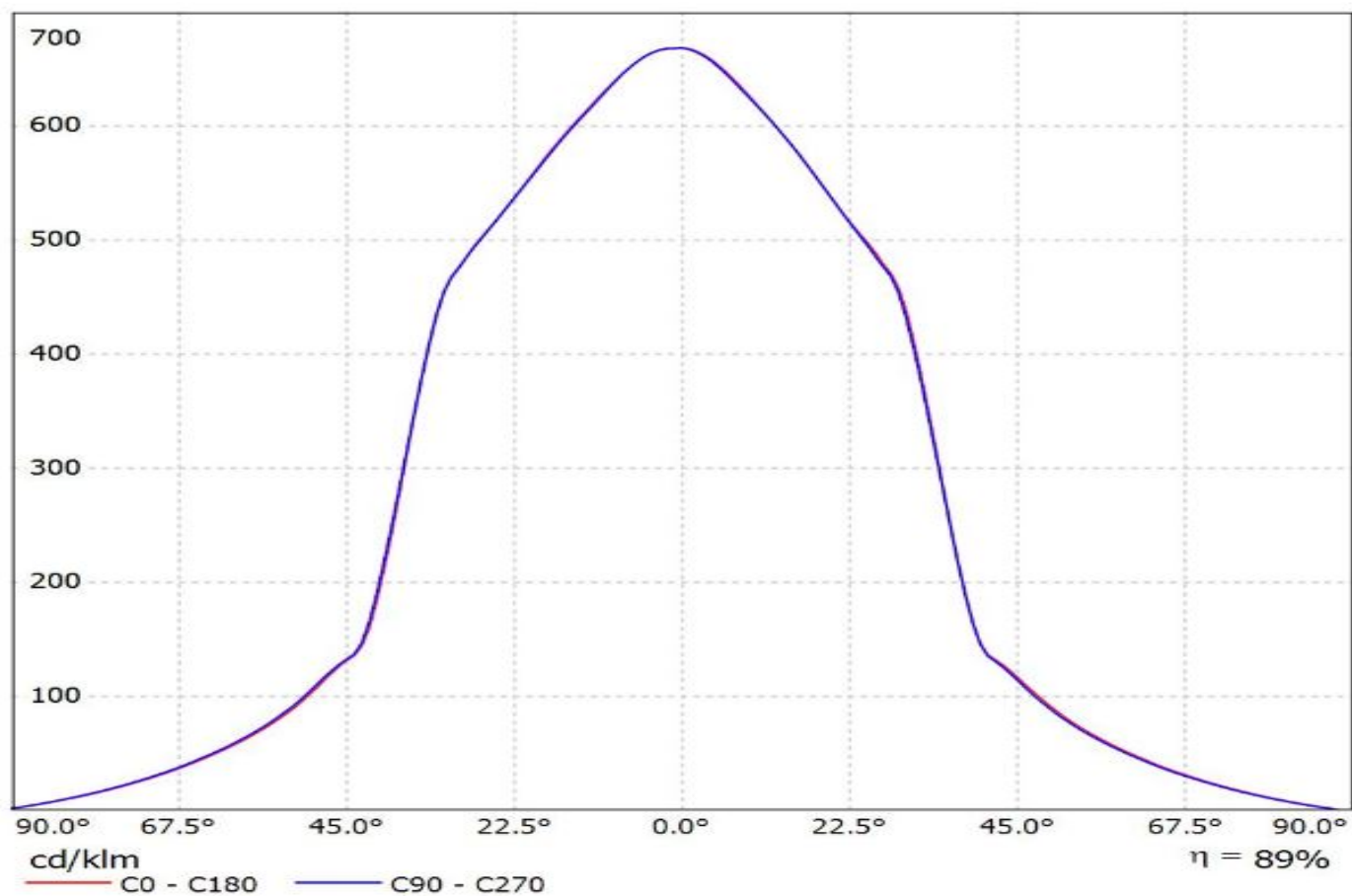
Luminaire: LEDiL Oy FCN14311\_BARBARA-XW-PF-VERO13-18\_(NFCLL036B)  
Lamps: 1 x Nichia NFCLL036B (sm403J1300R8000)\_542.652lm@100mA\_CCT=4000K\_P=3.34084W\_I=0.100A



Luminaire: Ledil FCN14311\_BARBARA-XW-PF-VERO13-18\_(Soleriq\_S13)  
Lamps: 1 x Osram\_Soleriq\_S13\_(GW\_KAGHB1.EM)\_931.029lm@250mA\_P=7.44679W\_I=250mA

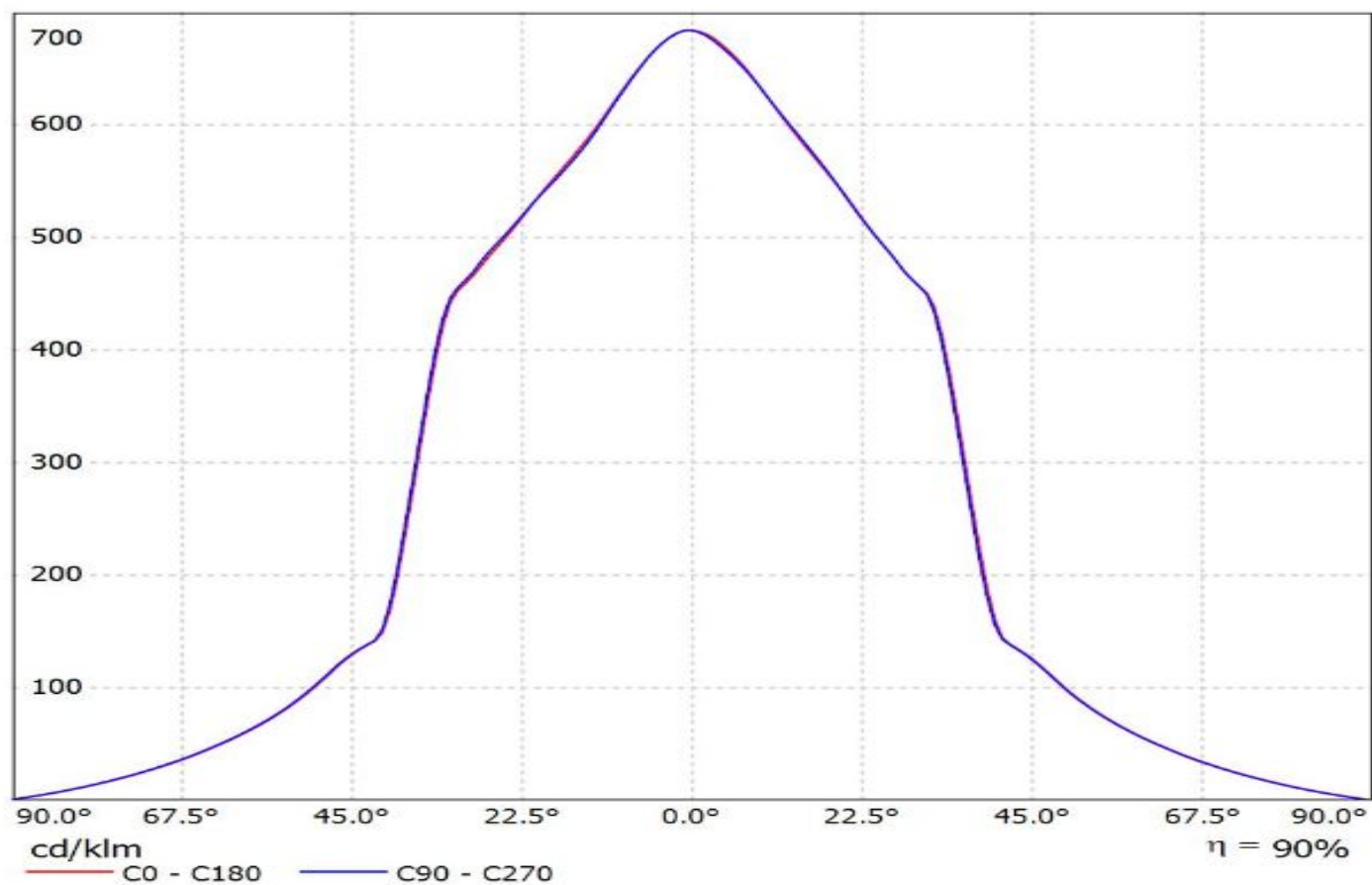


Luminaire: Ledil FCN14311\_BARBARA-XW-PF-VERO13-18\_(NFDxJ130B)  
Lamps: 1 x Nichia\_NFDxJ130B\_(463 Typ L2)\_C13709\_PF-SOCKET-VERO13-18\_1532.05lm@250mA\_P=8.27W\_I=0.25A

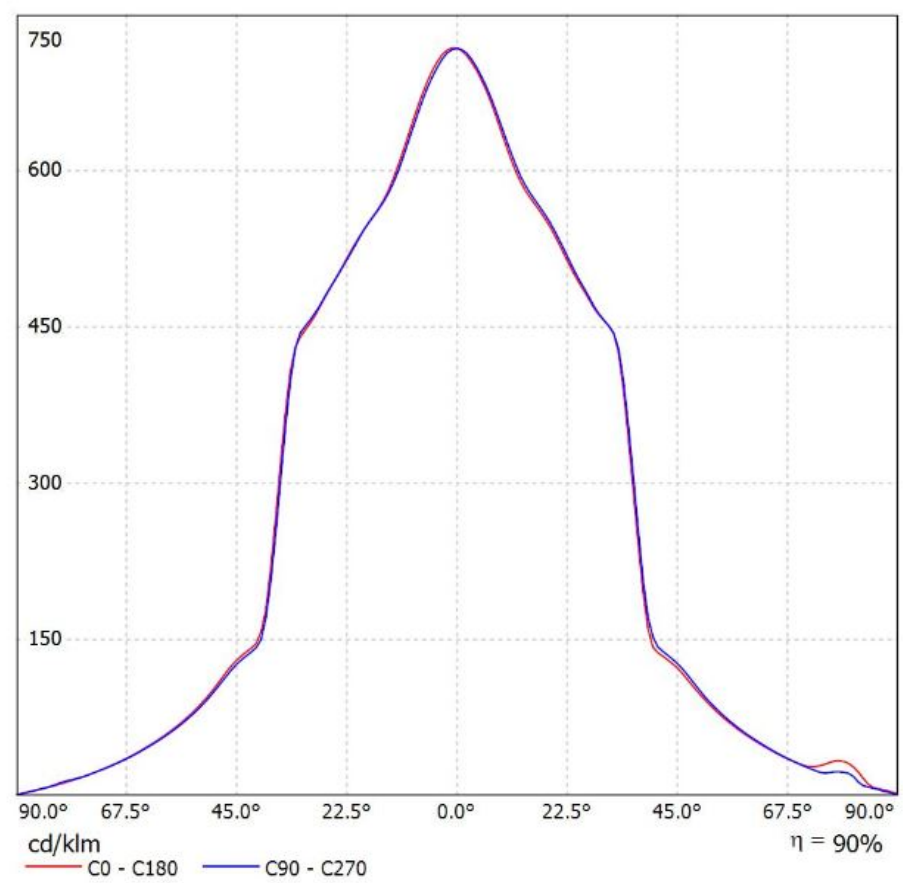


Luminaire: Ledil FCN14311\_BARBARA-XW-PF-VERO13/18\_(NFCLL060B)

Lamps: 1 x Nichia\_NFCLL060B\_(438\_TYP\_L1)\_1365.88lm@250mA\_P=8.375W\_I=0.25A

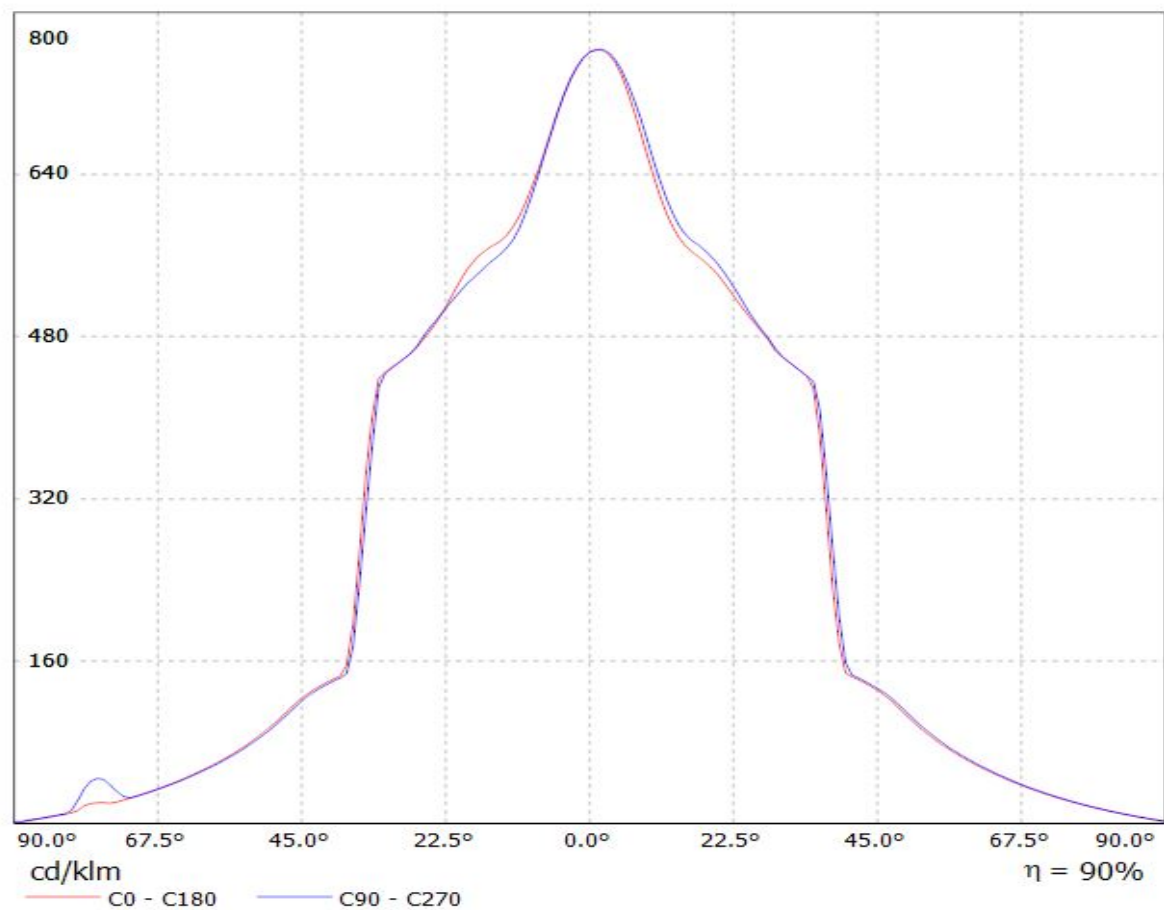


Luminaire: Ledil FCN14311\_BARBARA-XW-PF-VERO13-18\_(CXA1520\_(CXA1520-30F-N4-N0H-00001)\_(441\_Typ\_L1)\_(C13709\_PF-SOCKET-VERO13-18)\_1036.14lm@250mA\_P=8.825W\_I=0.25A  
Lamps: 1 x CXA1520\_(CXA1520-30F-N4-N0H-00001)\_(441\_Typ\_L1)\_(C13709\_PF-SOCKET-VERO13-18)\_1036.14lm@250mA\_P=8.825W\_I=0.25A

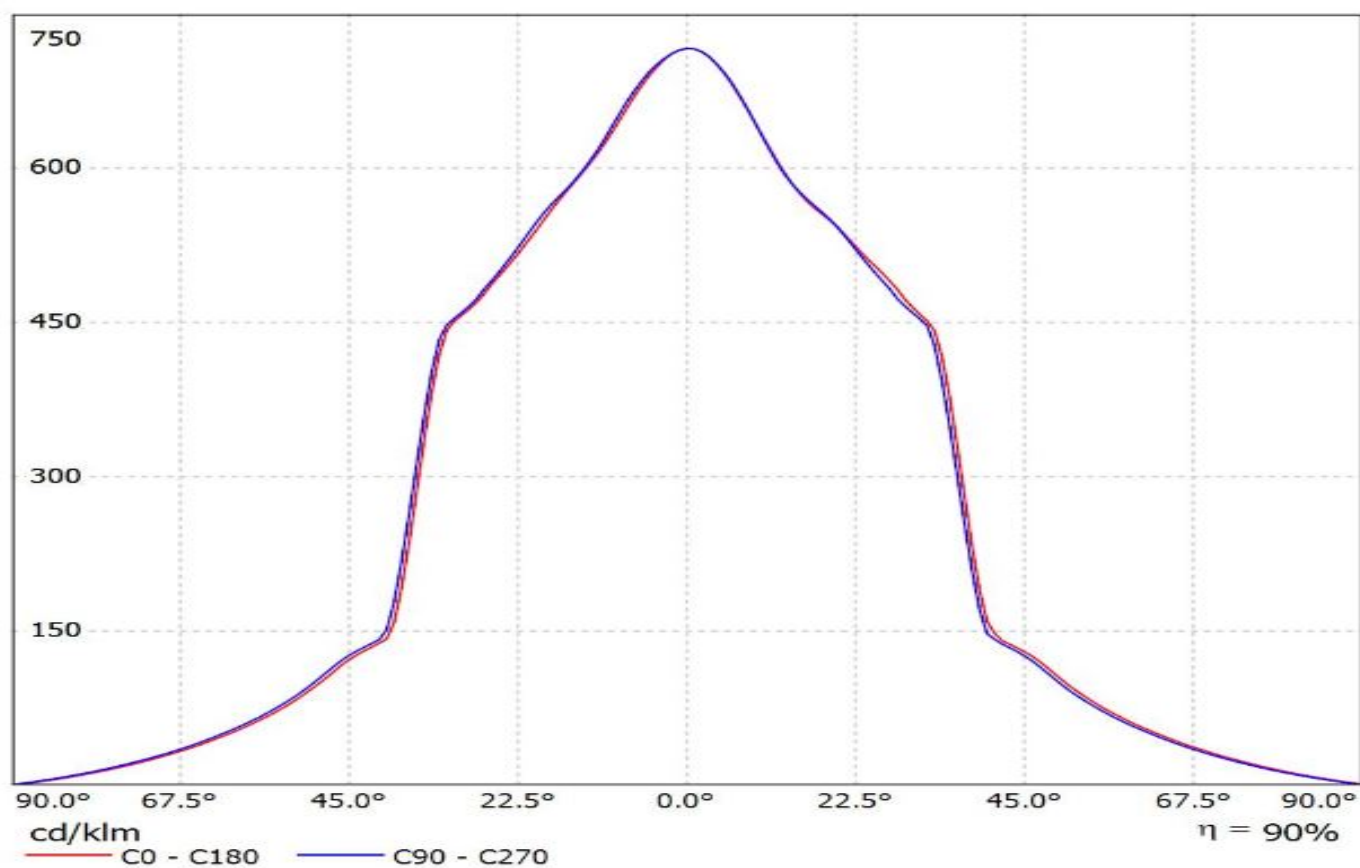


Luminaire: LEDiL Oy FCN14311\_BARBARA-XW-PF-VERO13-18\_(CLU700)

Lamps: 1 x Citizen\_CLU700\_(CLU700-1002B8-273M2G1)\_(C13709)\_(434\_Typ\_L1)\_374.62lm@100mA\_P=2.81352W\_I=0.1002A

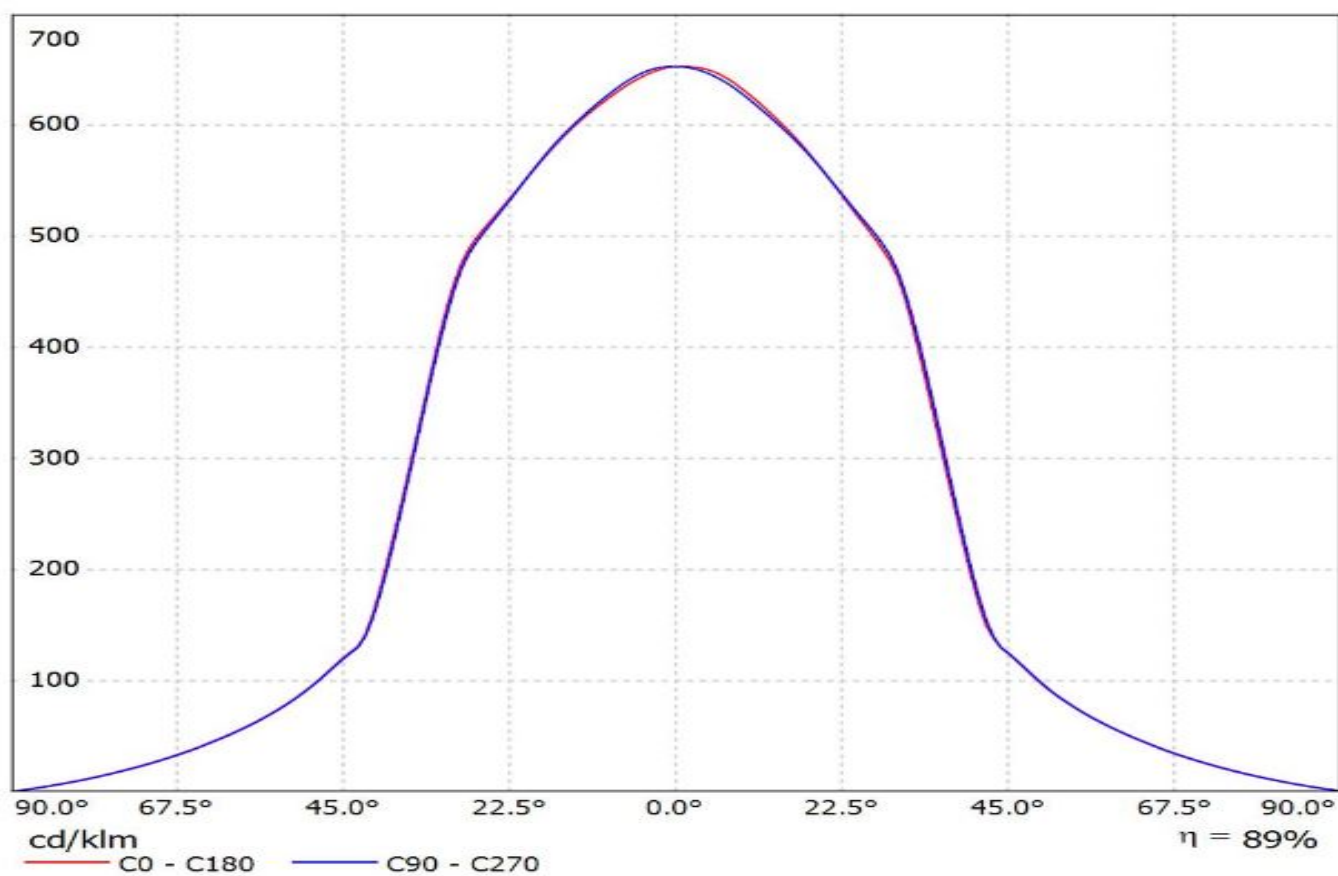


Luminaire: Ledil FCN14311\_BARBARA-XW-PF-VERO13/18\_(CLU024) Citizen\_CLU024\_(434\_Typ\_L1)\_  
(C13709\_PF-SOCKET-VERO13-18)\_1065.5lm@250mA\_P=8.55W\_I=0.25A  
Lamps: 1 x Citizen\_CLU024\_(434\_Typ\_L1)\_ (C13709\_PF-SOCKET-VERO13-18)  
\_1065.5lm@250mA\_P=8.55W\_I=0.25A

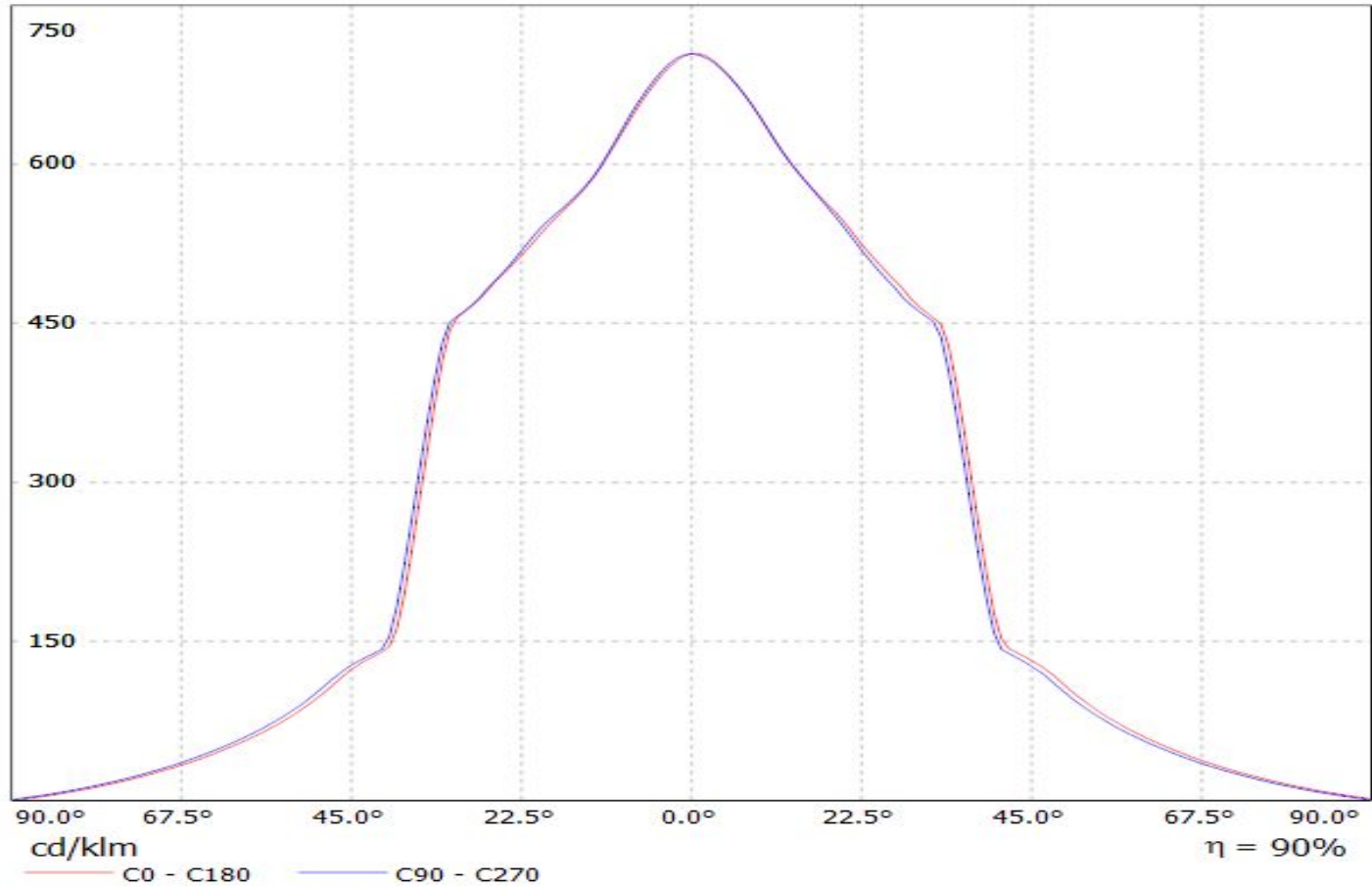




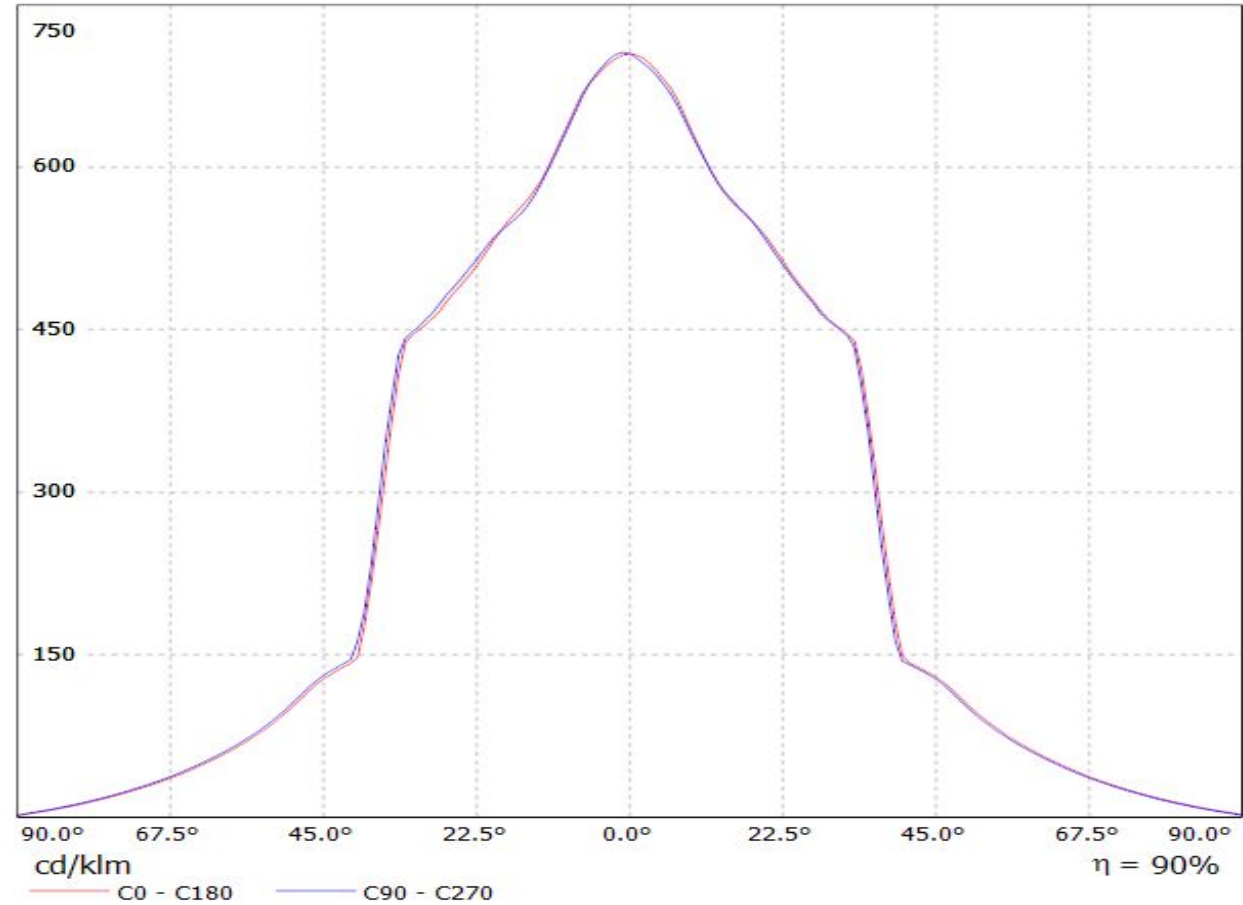
Luminaire: Ledil FCN14311\_BARBARA-XW-PF-VERO13/18\_(LC040B)\_(450\_Typ\_L2)\_(C13709)  
Lamps: 1 x Samsung\_LC040B\_(SPHWW1HDNE25010101)\_CCT=3000k\_(450\_Typ\_L2)\_(C13709\_PF-SOCKET-VERO13-18)\_1115.79lm@250mA\_P=8.075W\_I=0.25A



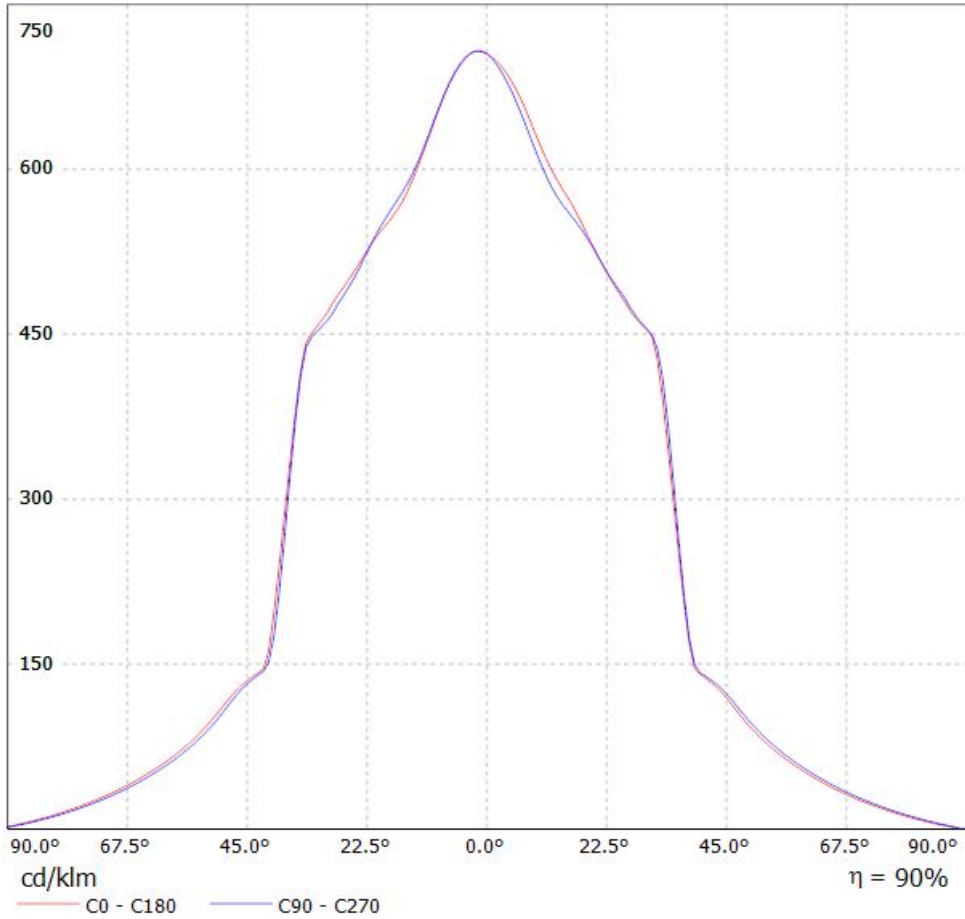
Luminaire: LEDiL Oy FCN14311\_BARBARA-XW-PF-VERO13/18\_(SLE-G5\_LES-11)  
Lamps: 1 x Tridonic\_SLE-G5\_LES-11\_1142.55lm@250mA\_P=8.4070W\_I=0.250A



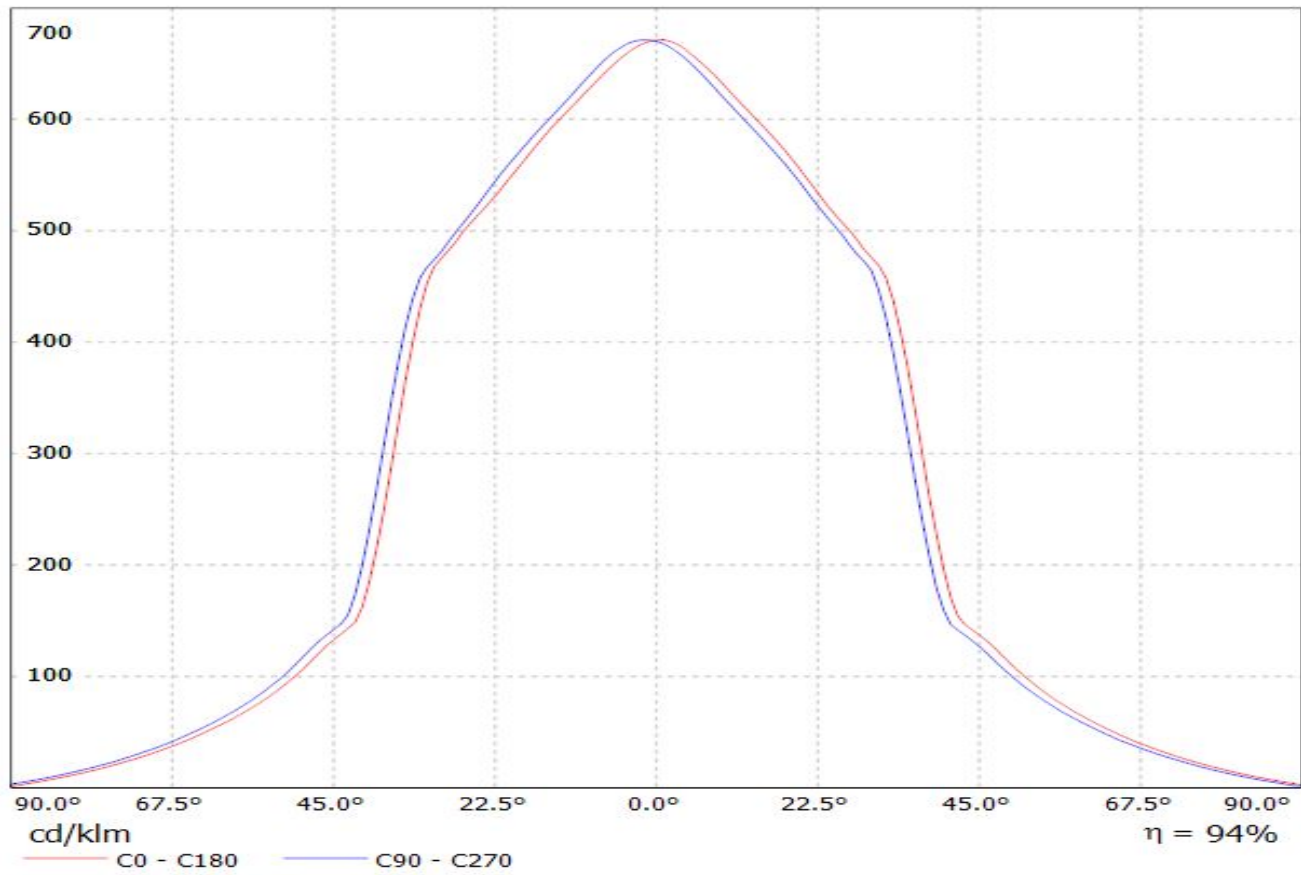
Luminaire: LEDiL Oy FCN14311\_BARBARA-XW-PF-VERO13/18\_(Soleriq\_P9)\_Bender+Wirth\_connector\_461  
Lamps: 1 x Osram\_Solericq\_P9\_(GQ\_MAFJB1.EM)\_875.631lm@250mA\_P=6.94894W\_I=0.2498A



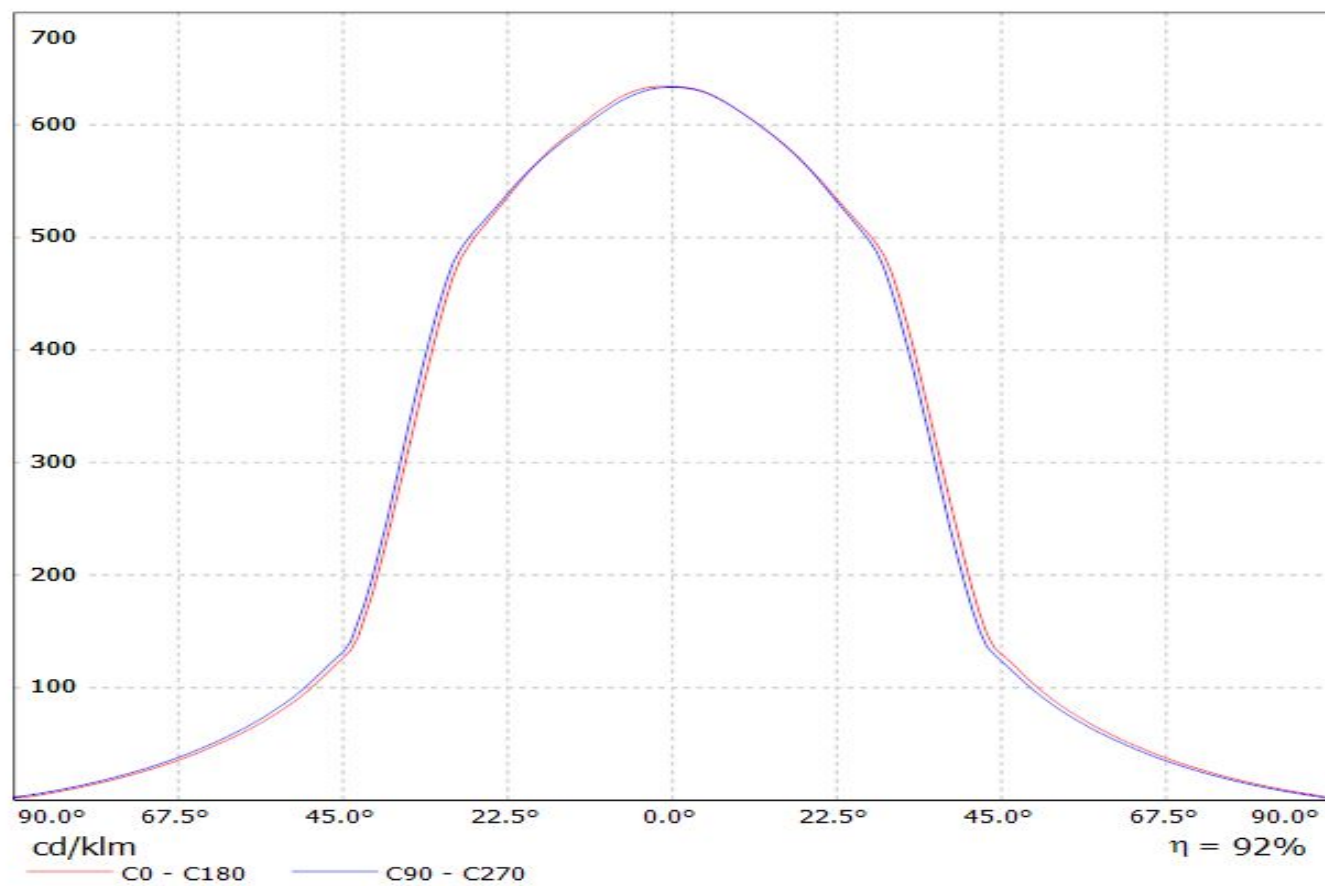
Luminaire: LEDiL Oy FCN14311\_BARBARA-XW-PF-VERO13-18\_(Luxeon CoB 1203)  
Lamps: 1 x Luxeon\_COB\_1203\_(LHC1-3080-1203)\_(C13868\_LENA-STD-BASE-VERO13-18)\_(438\_Typ\_L1)\_990.381lm@250mA\_P=8.6818W\_I=0.2498A



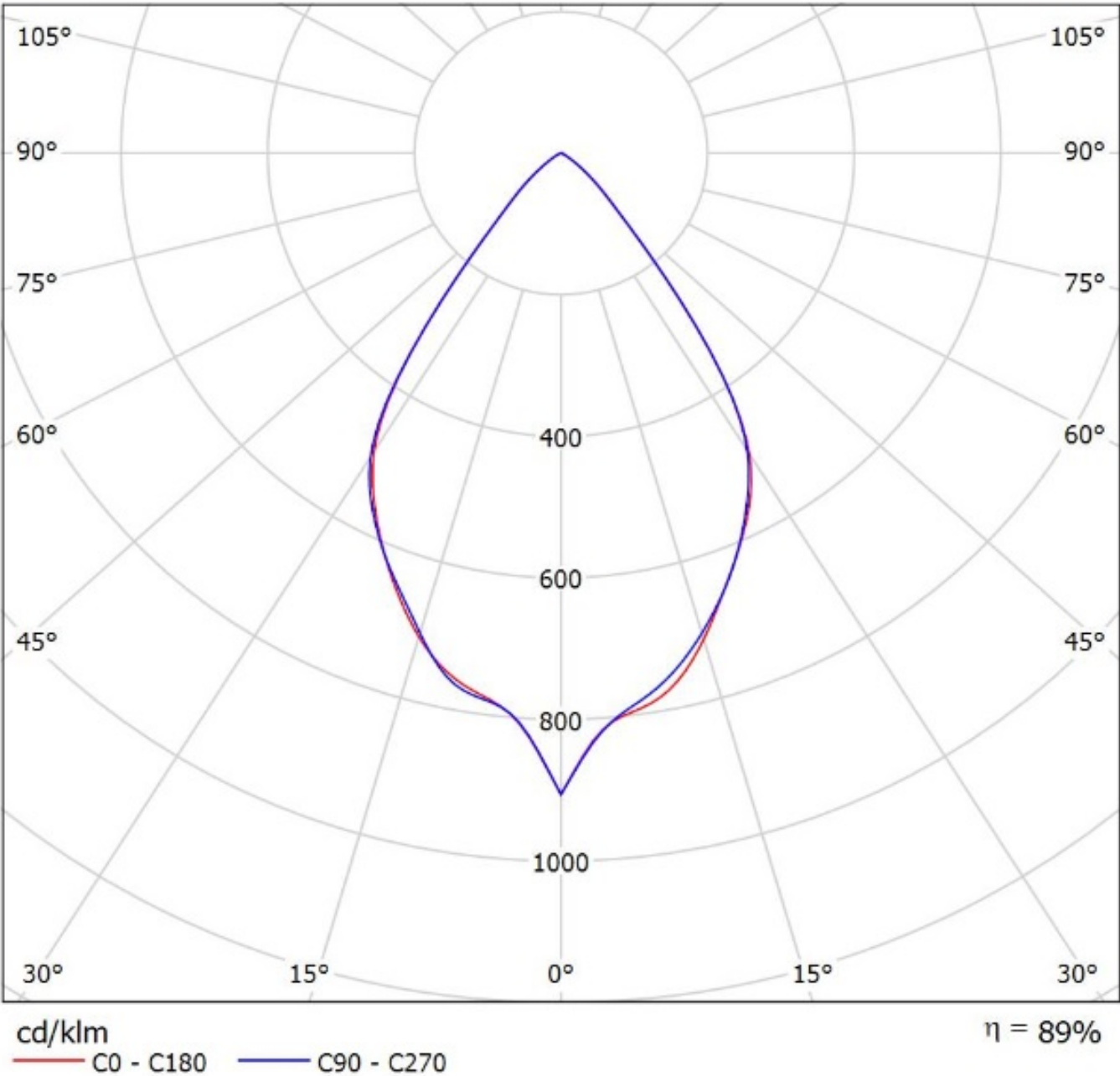
Luminaire: LEDiL Oy FCN14311\_BARBARA-XW-PF-VERO1318  
Lamps: 1 x VERO13\_1019.56@250mA\_P=7.54246W\_I=249.8mA



Luminaire: LEDiL Oy FCN14311\_BARBARA-XW-PF-VERO1318  
Lamps: 1 x VERO18\_878.76lm@250mA\_P=6.73231W\_I=249.9mA

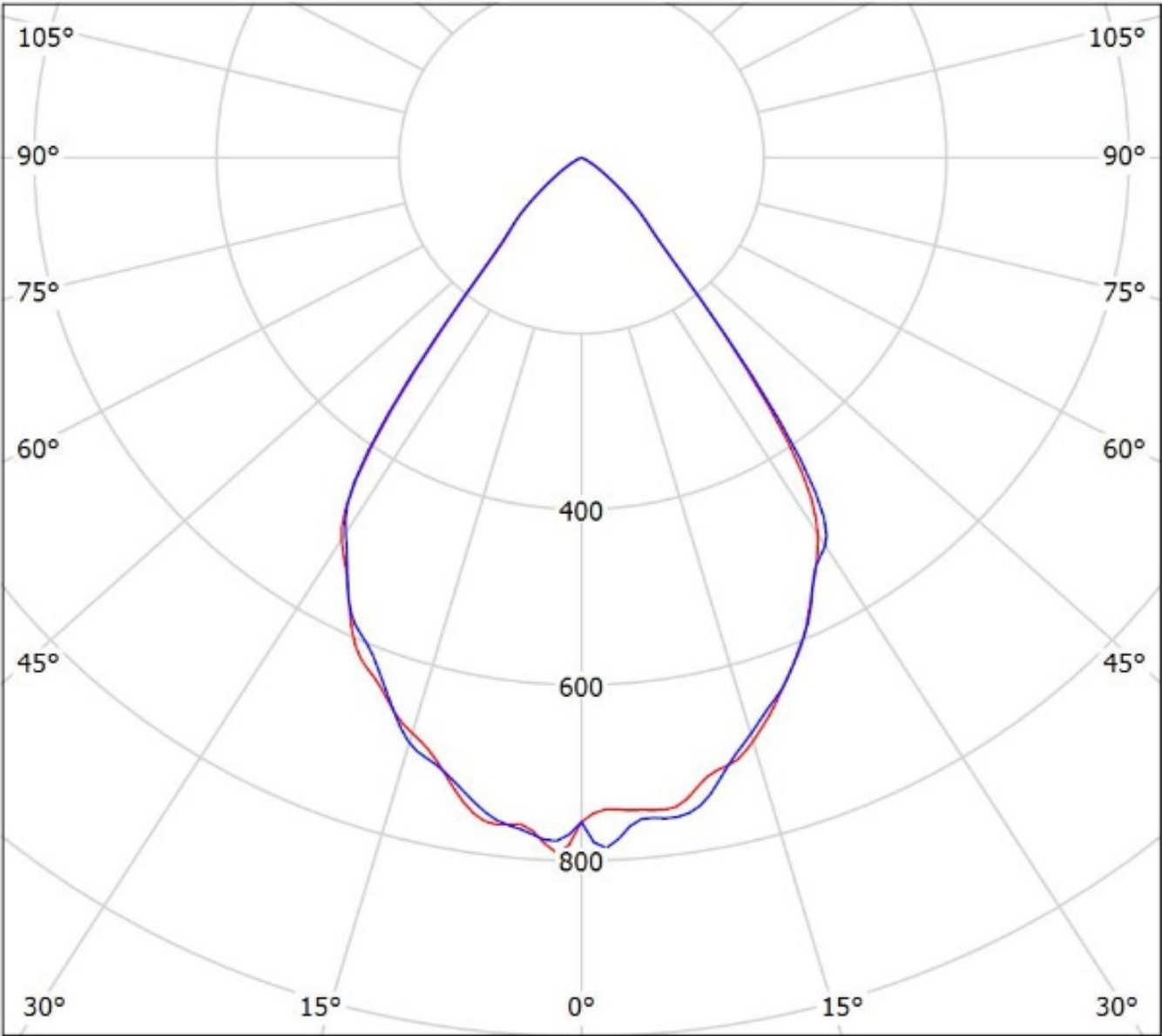


Luminaire: Ledil Oy FCN14311\_BARBARA-XW-PF-VERO13-18\_(LC010C)\_(B+W\_479\_Typ\_L1)\_SIMULATED  
Lamps: 1 x Samsung LC010C + Bender & Wirth 479 Type L1





Luminaire: Ledil Oy FCN14311\_BARBARA-XW-PF-VERO13-18\_(LC020C)\_(B+W\_479\_Typ\_L1)\_SIMULATED  
Lamps: 1 x Samsung LC020C + Bender & Wirth 479 Type L1



cd/klm

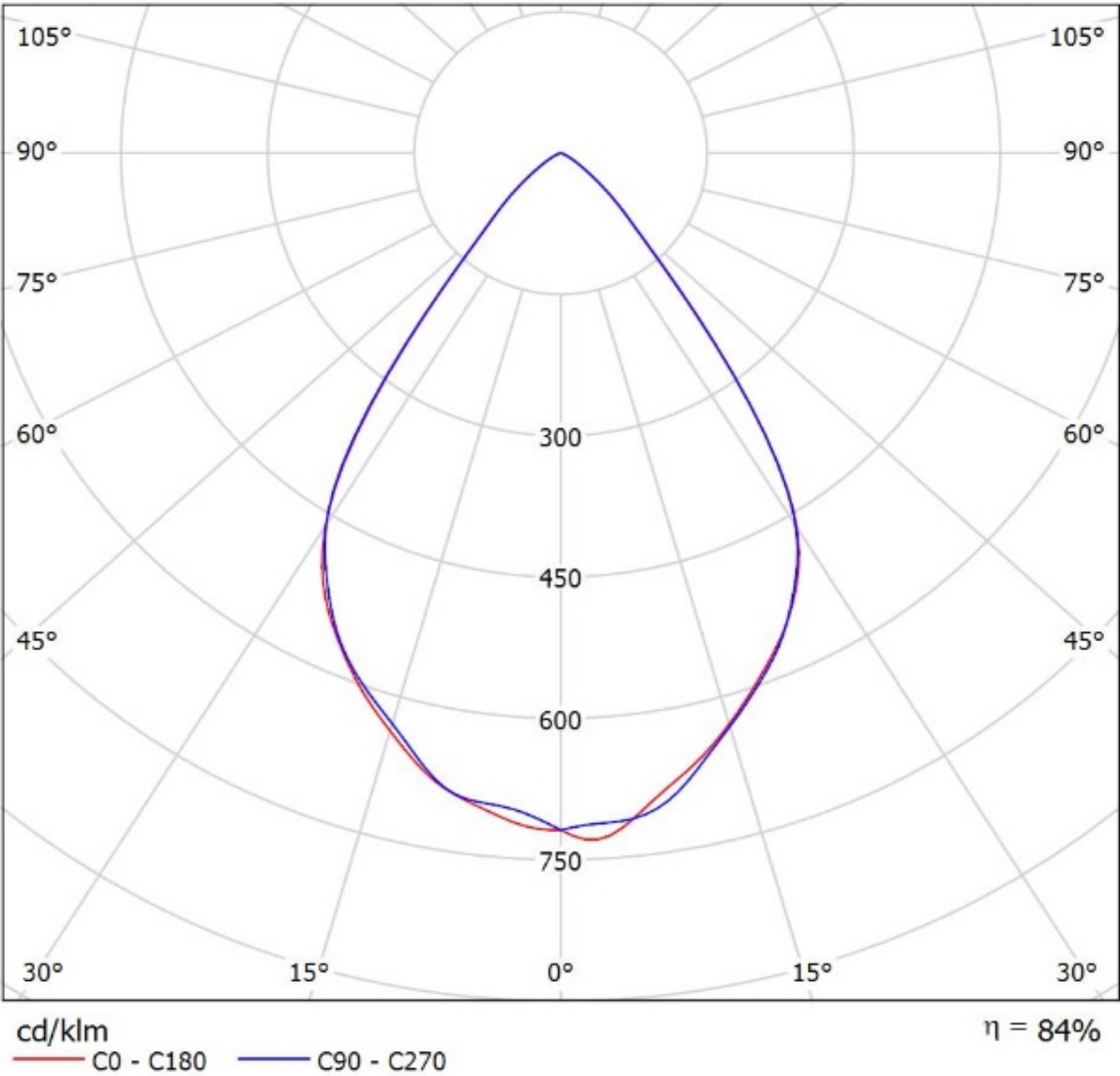
C0 - C180

C90 - C270

$\eta = 88\%$



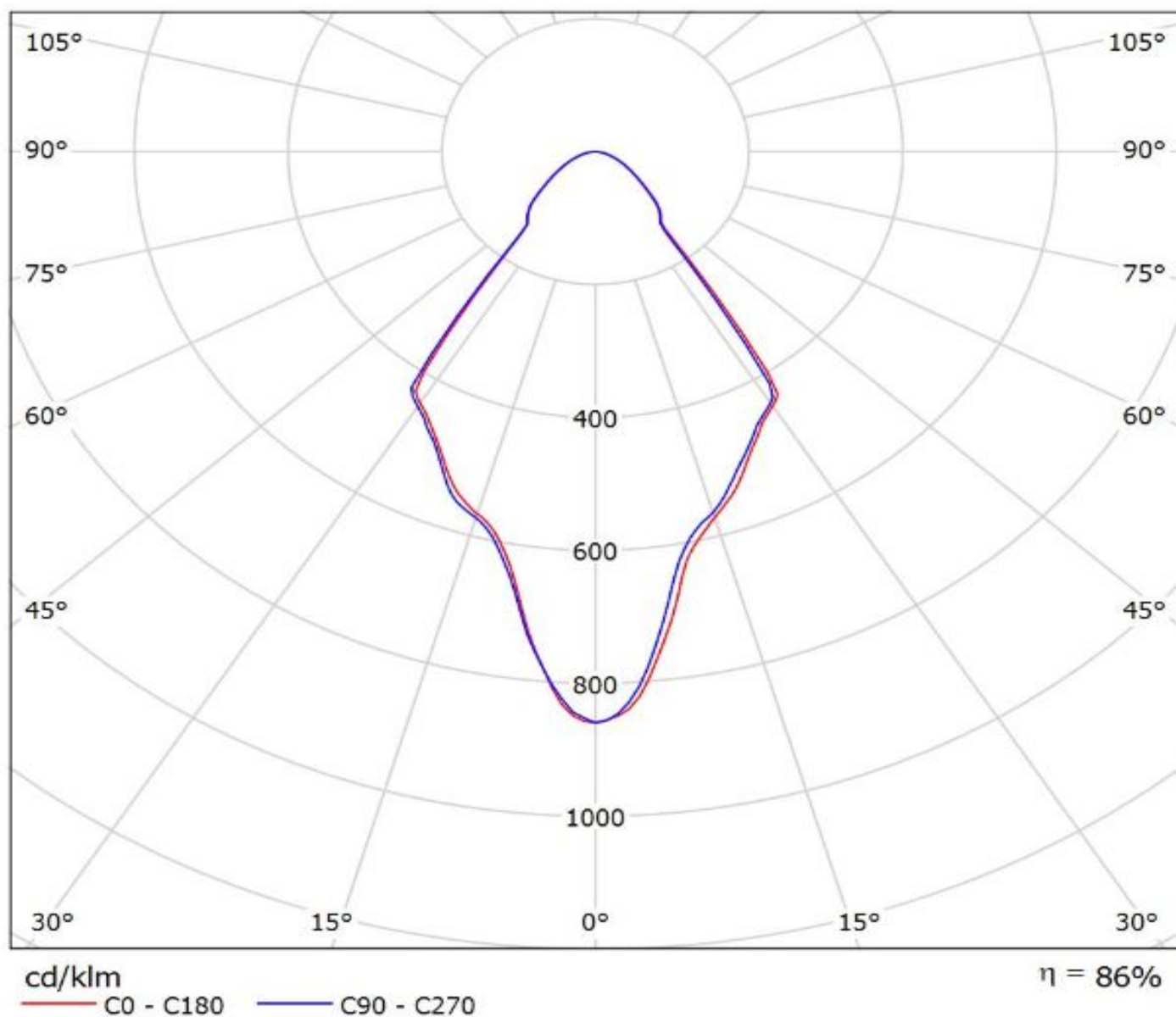
Luminaire: Ledil Oy FCN14311\_BARBARA-XW-PF-VERO13-18\_(LC040C)\_(B+W\_480\_Typ\_L1)\_SIMULATED  
Lamps: 1 x Samsung LC040C + Bender & Wirth 480 Type L1



## Ledil FCN14311\_BARBARA-XW-PF-VERO13/18\_(P6) / LDC (Polar)

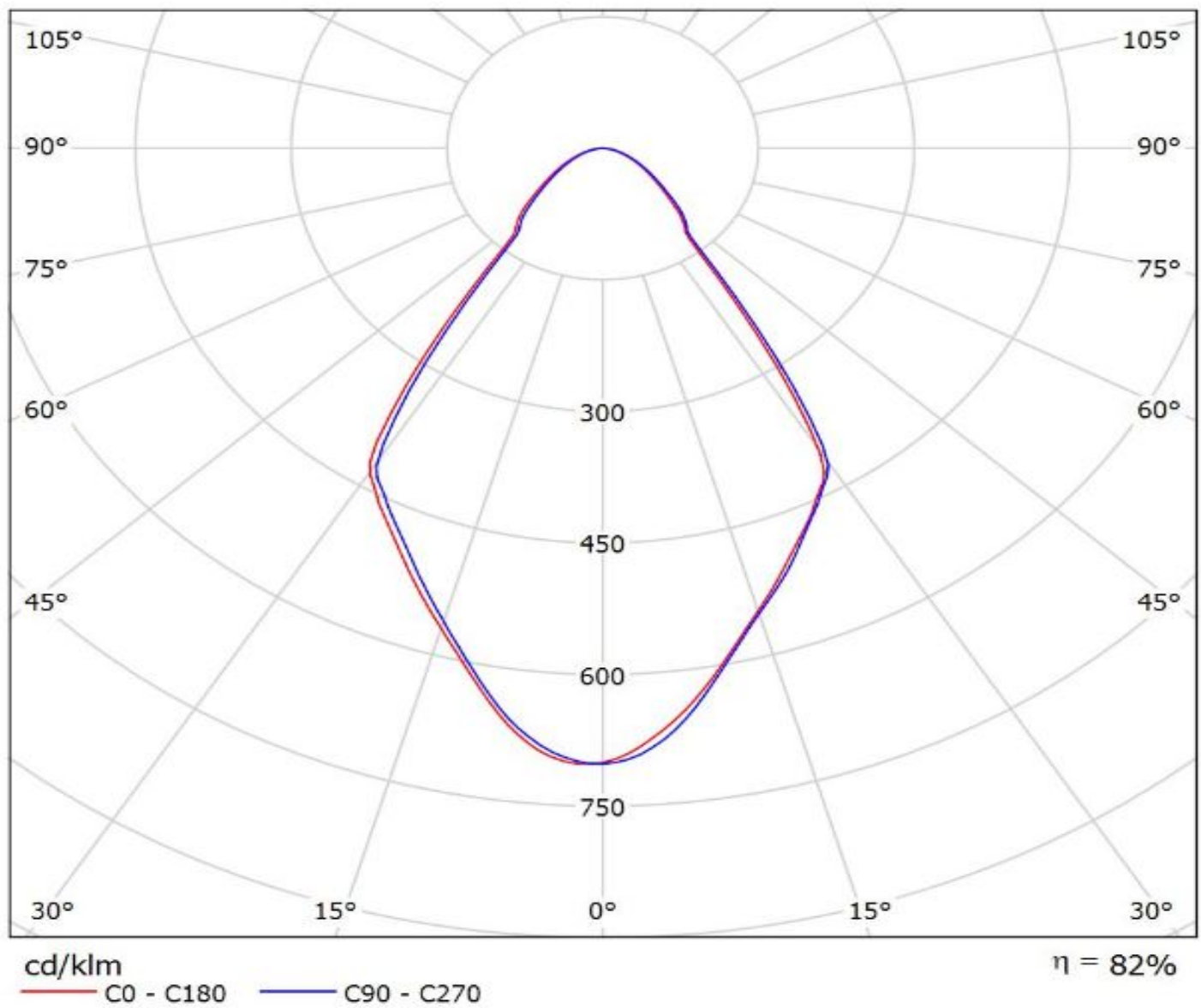
Luminaire: Ledil FCN14311\_BARBARA-XW-PF-VERO13/18\_(P6)

Lamps: 1 x Osram\_Solericq\_P6\_(GW\_MAEGB1.EM)\_504.127lm@250mA\_P=6.28598W\_I=0.25A

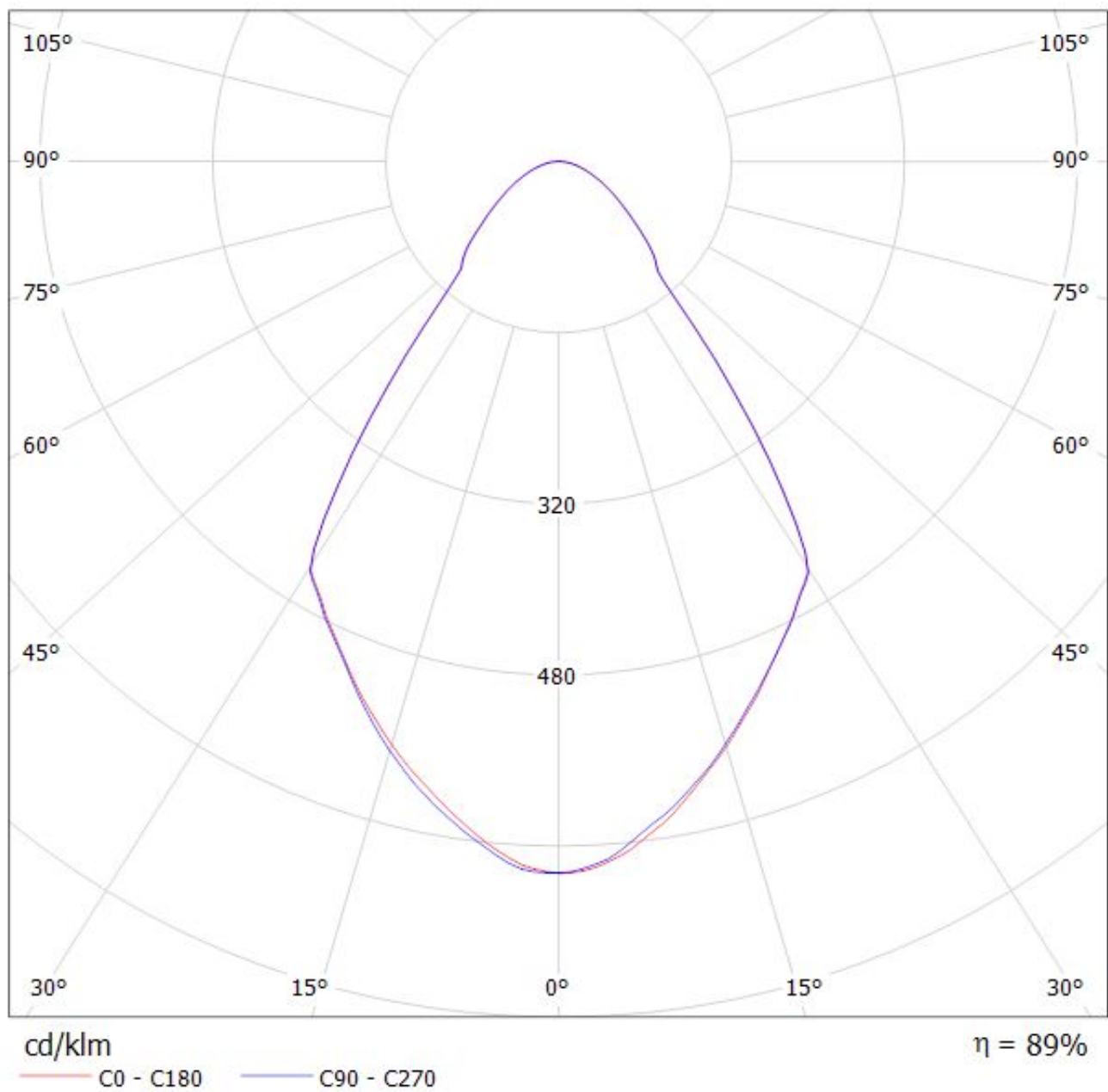


## Ledil FCN14311\_BARBARA-XW-PF-VERO13-18\_(CXA1850) / LDC (Polar)

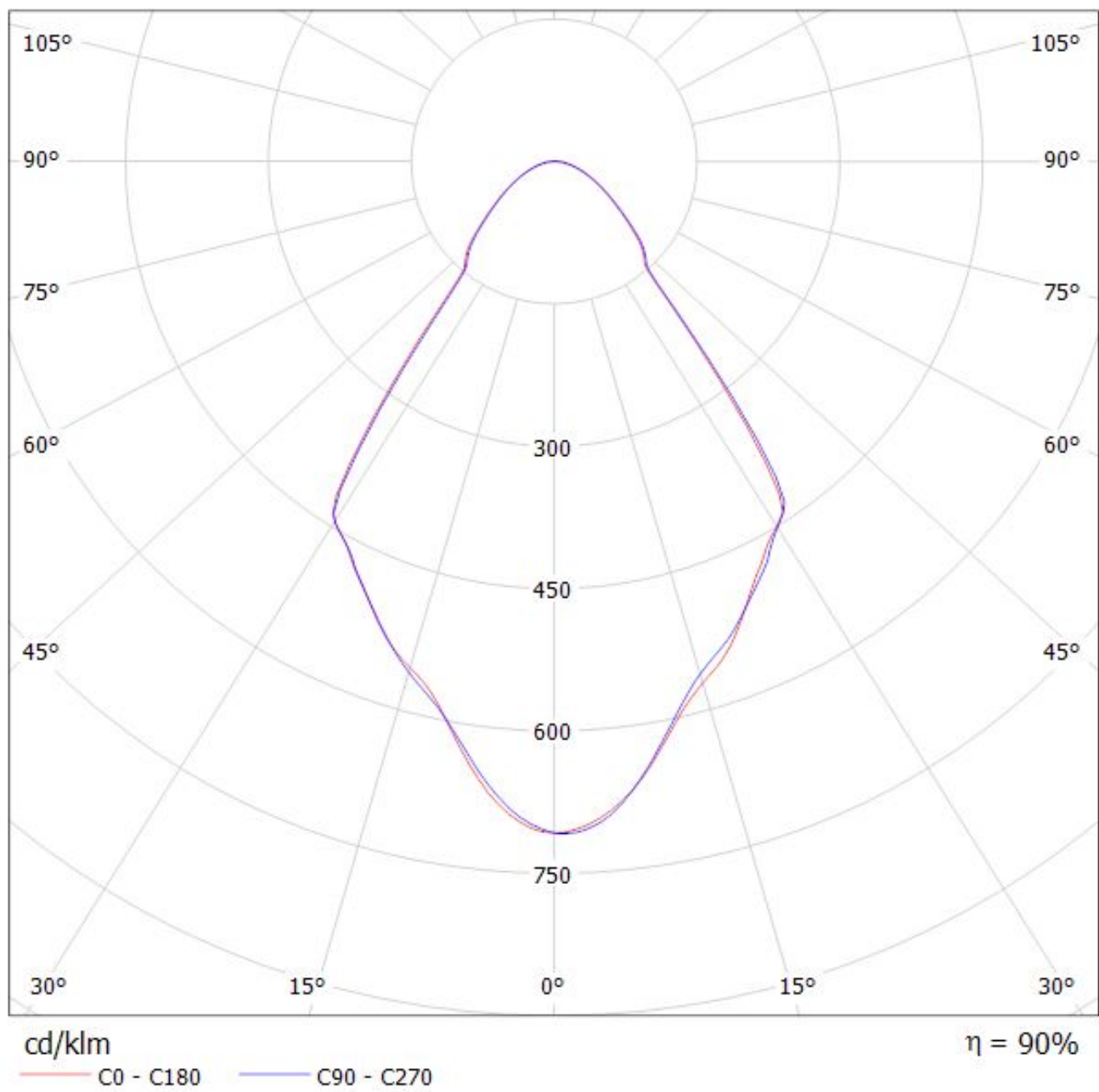
Luminaire: Ledil FCN14311\_BARBARA-XW-PF-VERO13-18\_(CXA1850)  
Lamps: 1 x CREE\_CXA1850\_(CXA1850-30F-T4-N0Y-00001)  
\_847.836lm@250mA\_CCT=3000K\_P=8.27W\_I=0.25A



Luminaire: LEDiL Oy FCN14311\_BARBARA-XW-PF-VERO13/18\_(Soleriq P13)  
Lamps: 1 x Osram Soleriq P13 (GW MAGMB1.EM)\_921.649lm@250mA\_CCT=3500K\_P=8.8097W\_I=0.25A



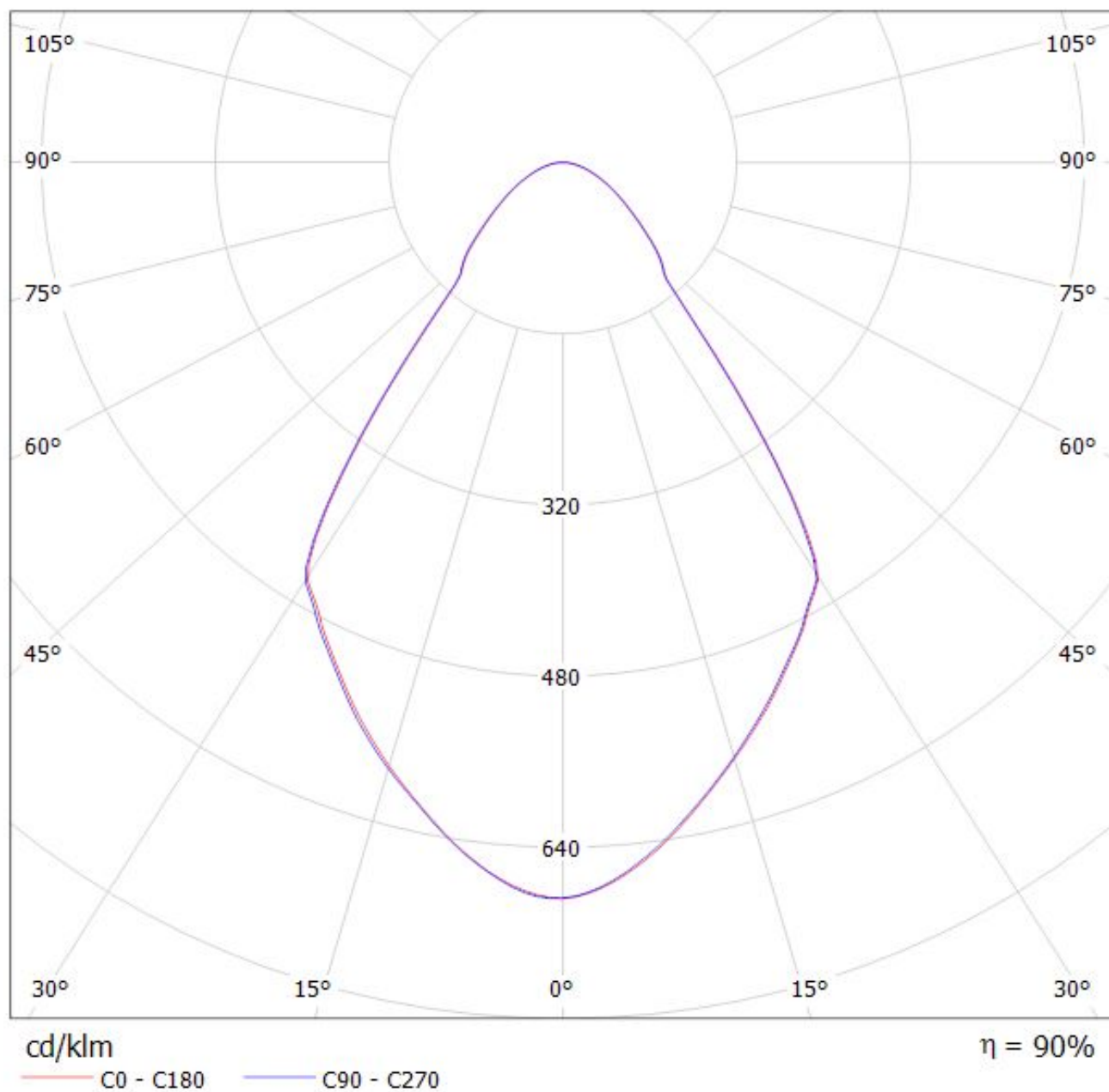
Luminaire: LEDiL Oy FCN14311\_BARBARA-XW-PF-VERO13-18\_(NFCLL036B)  
Lamps: 1 x Nichia NFCLL036B (sm403J1300R8000)\_542.652lm@100mA\_CCT=4000K\_P=3.34084W\_I=0.100A



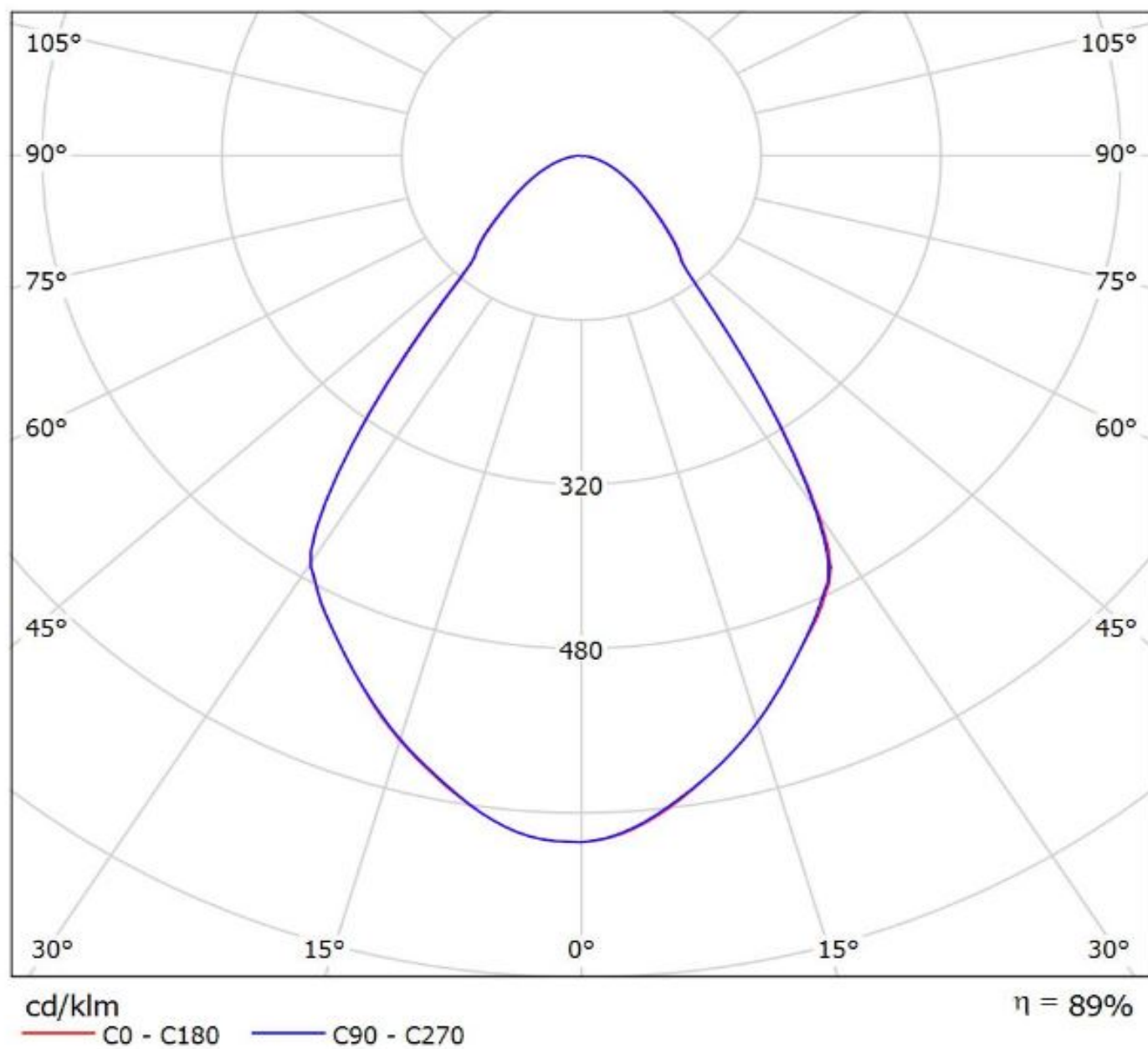


Luminaire: Ledil FCN14311\_BARBARA-XW-PF-VERO13-18\_(Soleriq\_S13)

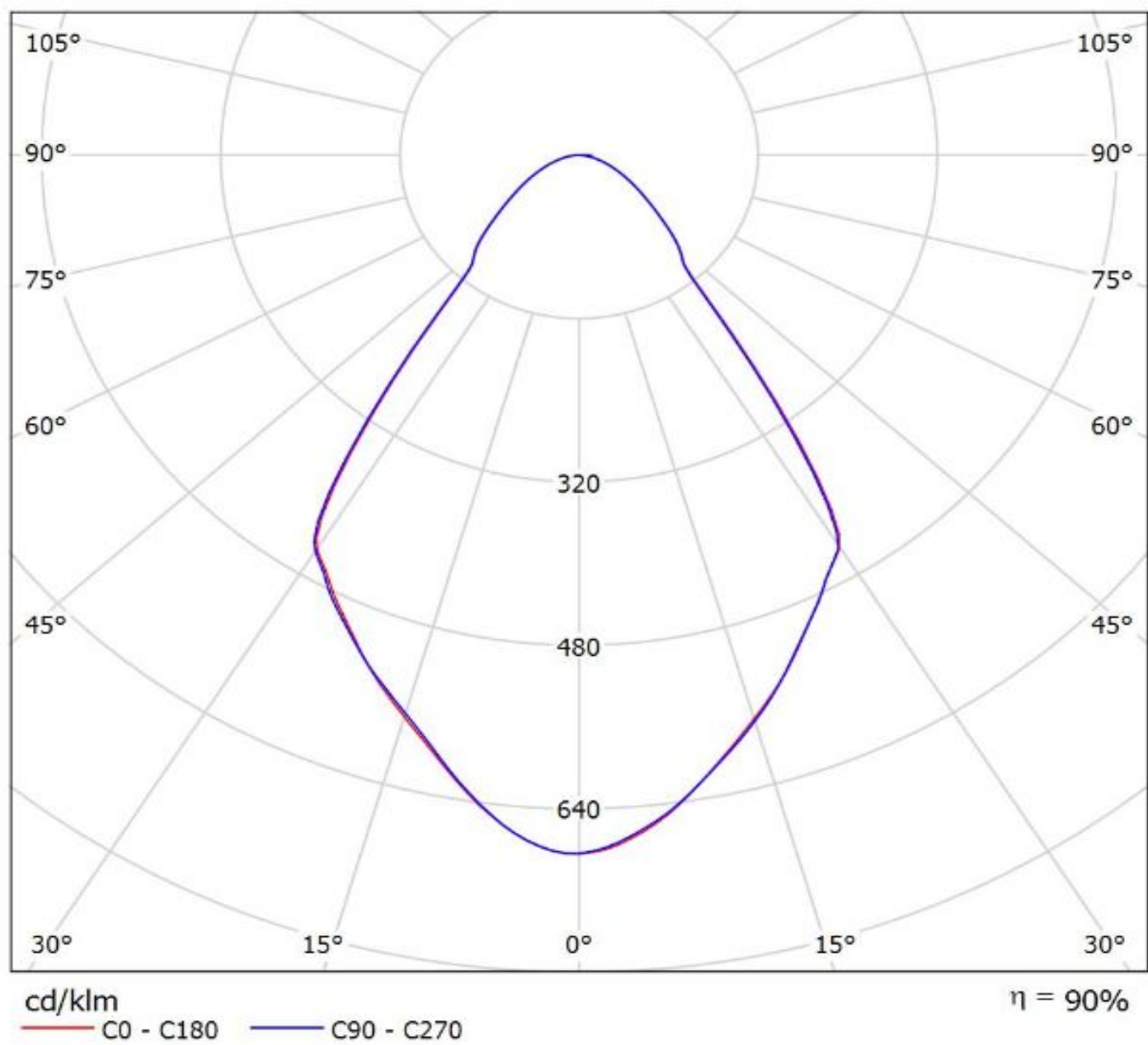
Lamps: 1 x Osram\_Soleriq\_S13\_(GW\_KAGHB1.EM)\_931.029lm@250mA\_P=7.44679W\_I=250mA



Luminaire: Ledil FCN14311\_BARBARA-XW-PF-VERO13-18\_(NFDxJ130B)  
Lamps: 1 x Nichia\_NFDxJ130B\_(463 Typ L2)\_C13709\_PF-SOCKET-VERO13-18\_1532.05lm@250mA\_P=8.27W\_I=0.25A



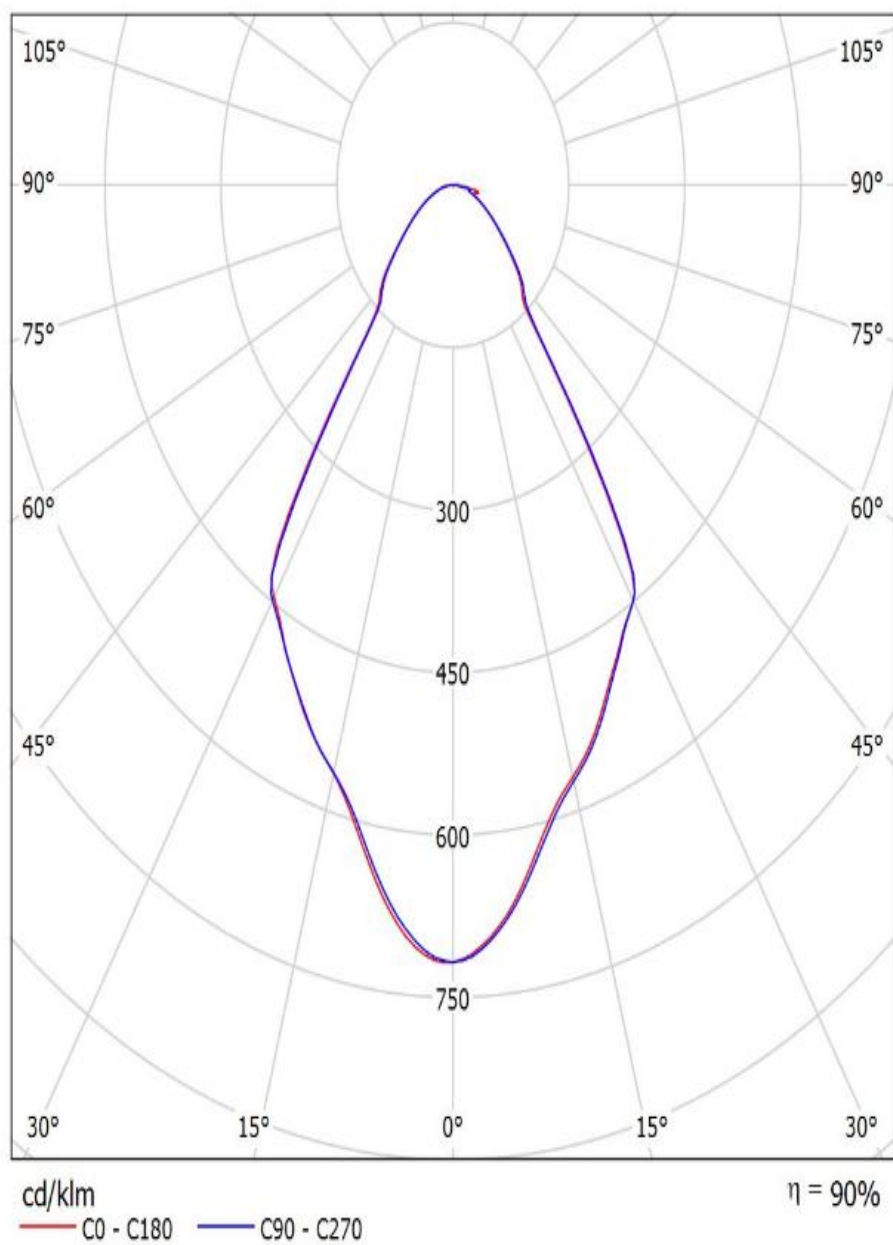
Luminaire: Ledil FCN14311\_BARBARA-XW-PF-VERO13/18\_(NFCLL060B)  
Lamps: 1 x Nichia\_NFCLL060B\_(438\_TYP\_L1)\_1365.88lm@250mA\_P=8.375W\_I=0.25A





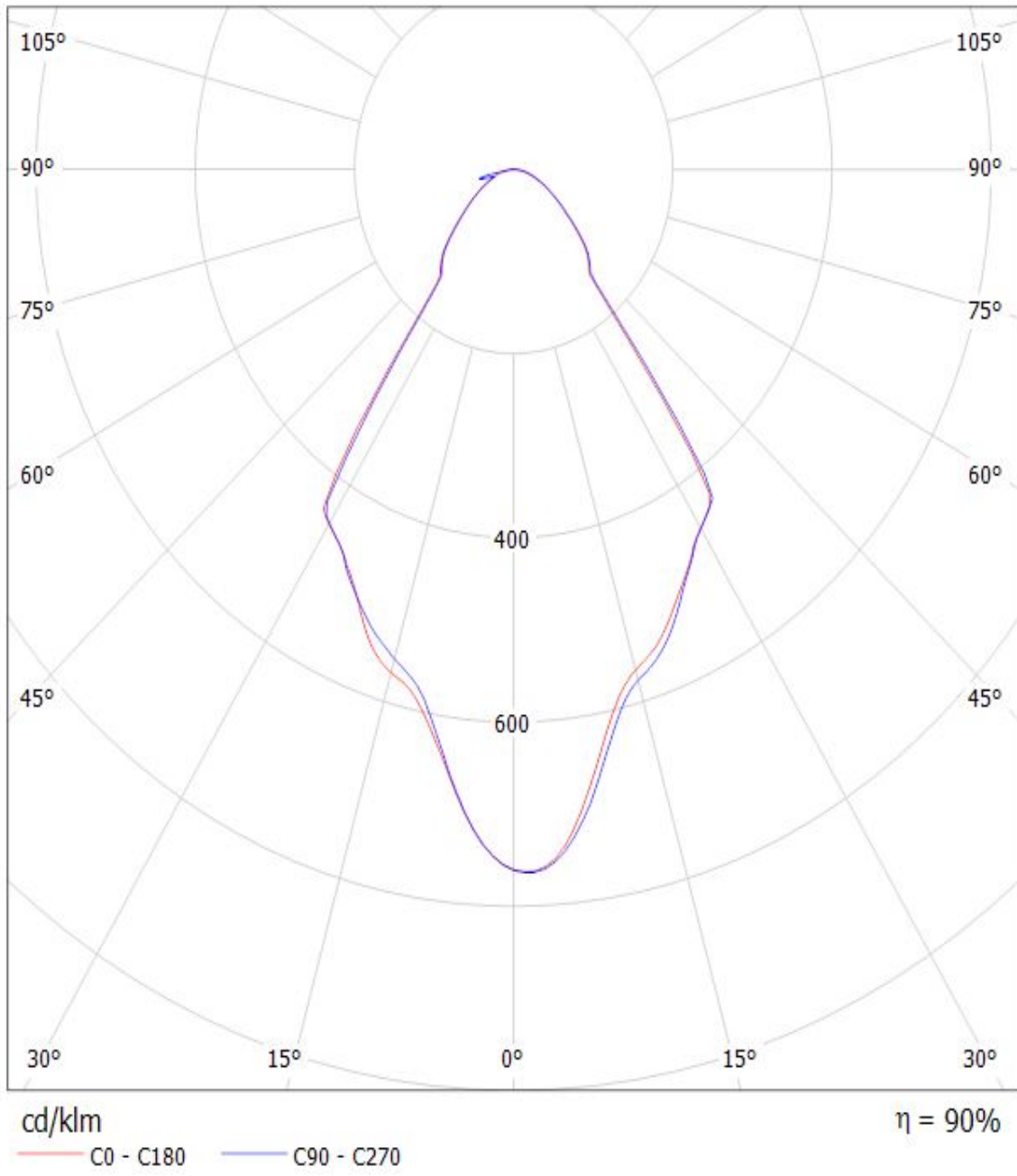
Luminaire: Ledil FCN14311\_BARBARA-XW-PF-VERO13-18\_(CXA1520)\_CXA1520\_(CXA1520-30F-N4-N0H-00001)\_(441\_Typ\_L1)\_(C13709\_PF-SOCKET-VERO13-18)\_1036.14lm@250mA\_P=8.825W\_I=0.25A

Lamps: 1 x CXA1520\_(CXA1520-30F-N4-N0H-00001)\_(441\_Typ\_L1)\_(C13709\_PF-SOCKET-VERO13-18)\_1036.14lm@250mA\_P=8.825W\_I=0.25A

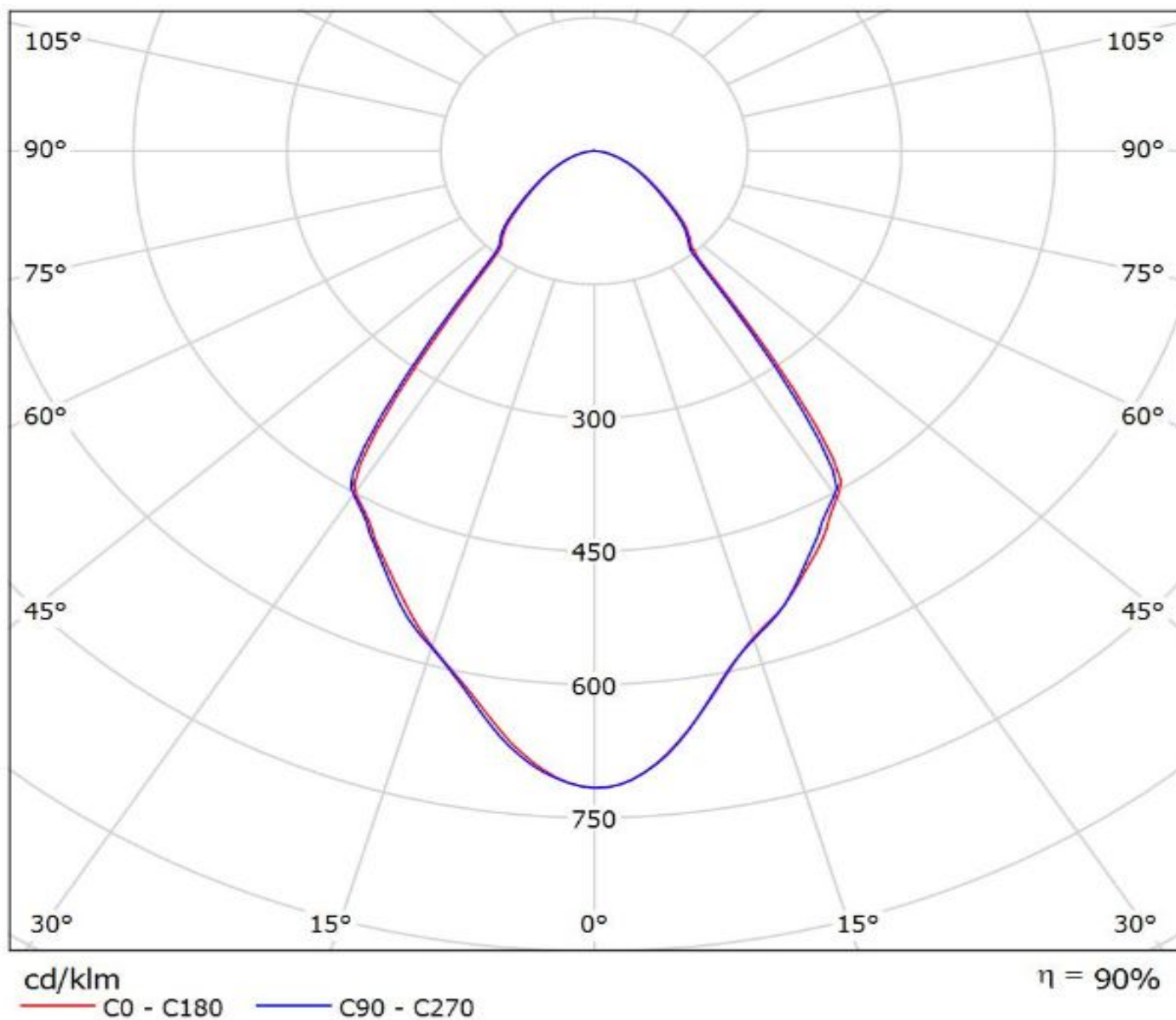


Luminaire: LEDiL Oy FCN14311\_BARBARA-XW-PF-VERO13-18\_(CLU700)

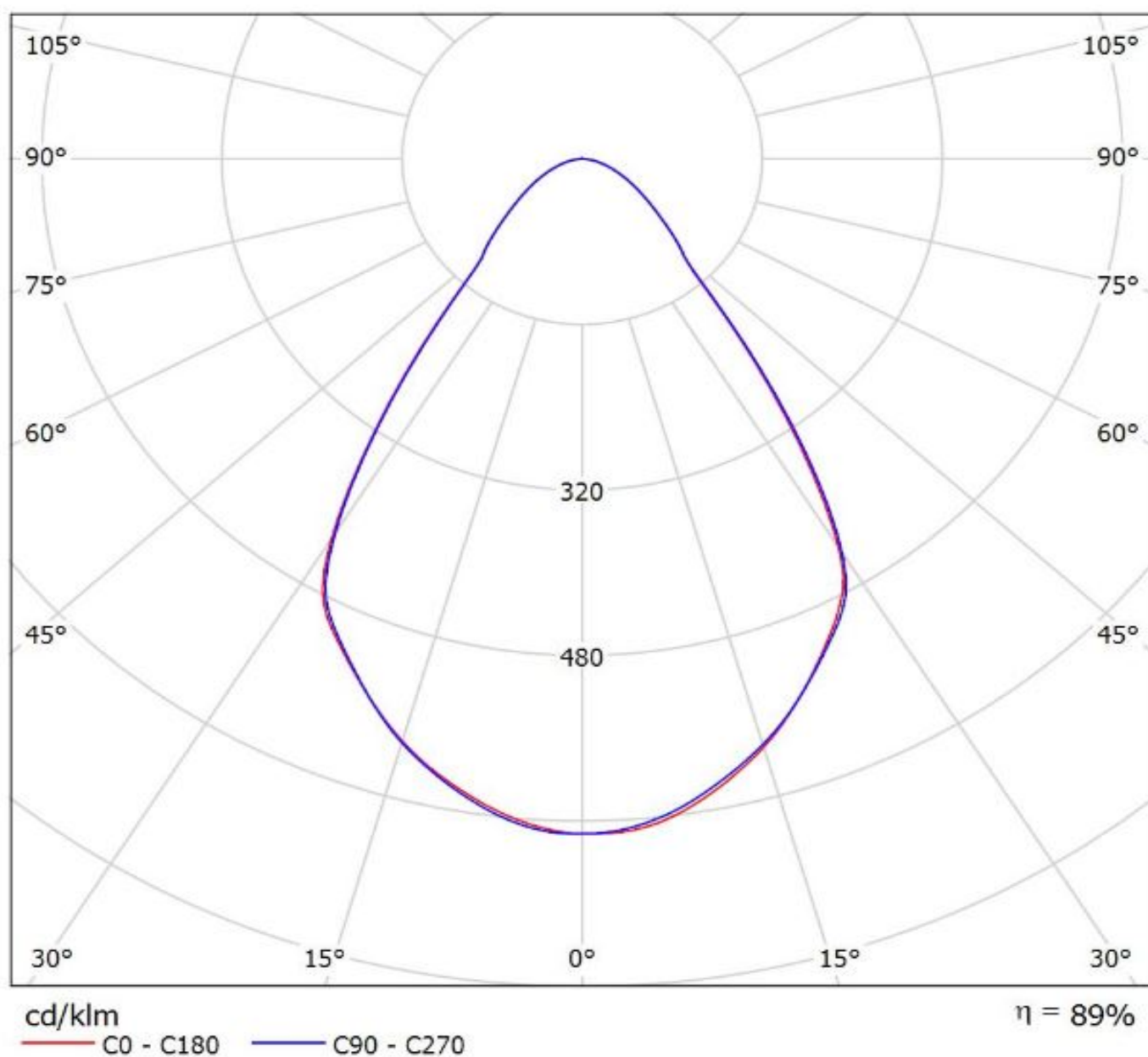
Lamps: 1 x Citizen\_CLU700\_(CLU700-1002B8-273M2G1)\_(C13709)\_(434\_Typ\_L1)\_374.62lm@100mA\_P=2.81352W\_I=0.1002A



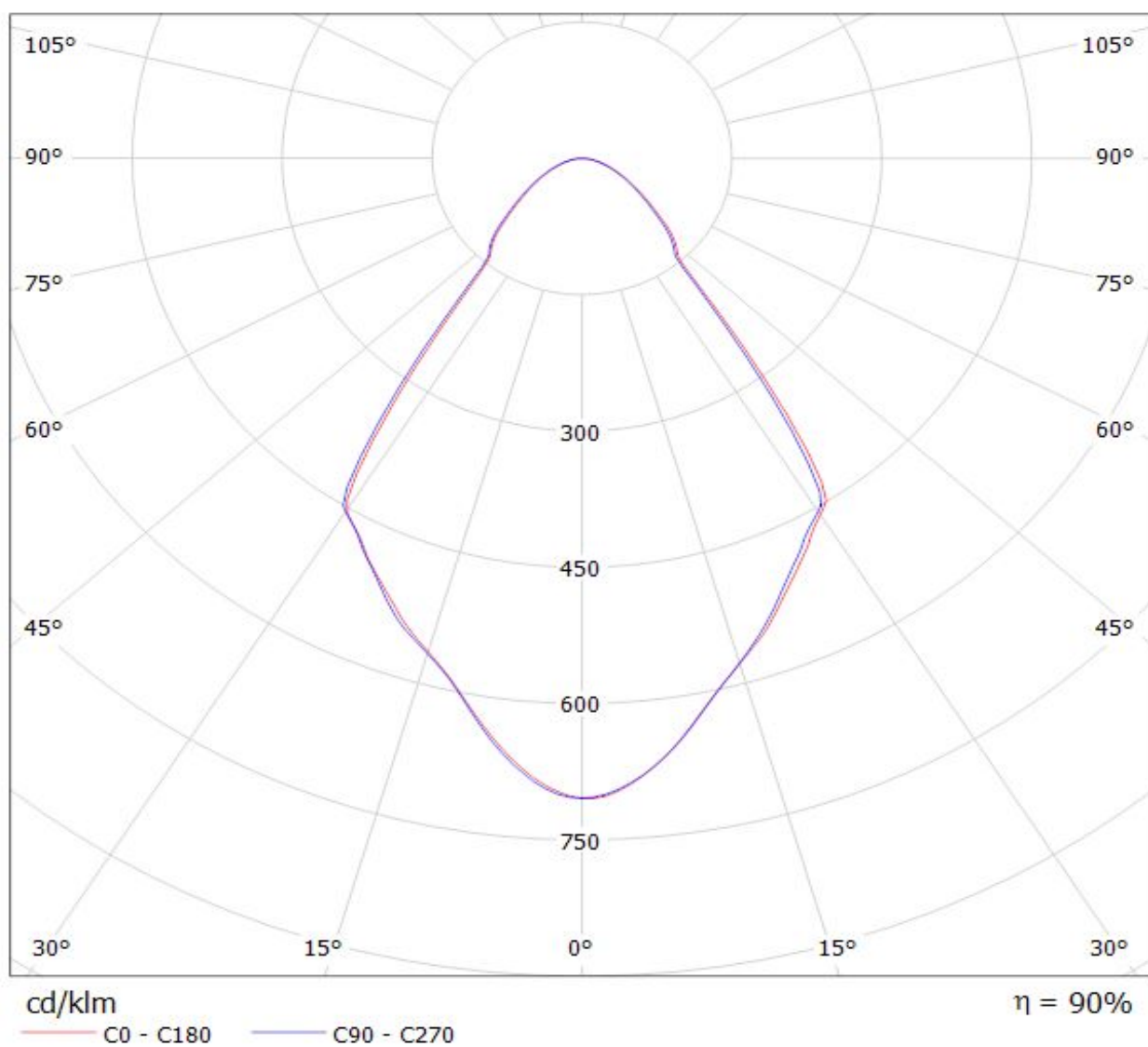
Luminaire: Ledil FCN14311\_BARBARA-XW-PF-VERO13/18\_(CLU024) Citizen\_CLU024\_(434\_Typ\_L1)\_  
(C13709\_PF-SOCKET-VERO13-18)\_1065.5lm@250mA\_P=8.55W\_I=0.25A  
Lamps: 1 x Citizen\_CLU024\_(434\_Typ\_L1)\_ (C13709\_PF-SOCKET-VERO13-18)  
\_1065.5lm@250mA\_P=8.55W\_I=0.25A



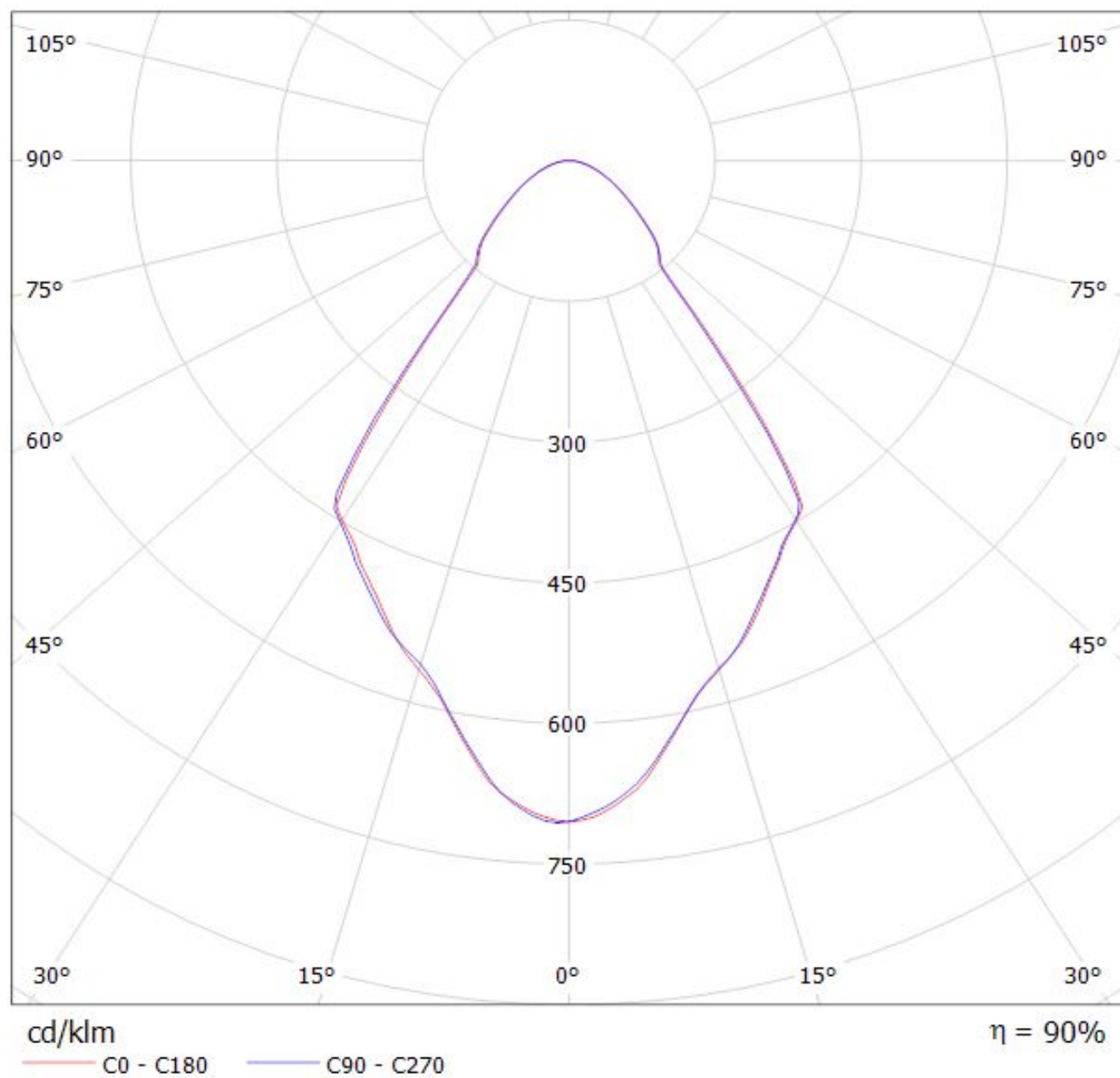
Luminaire: Ledil FCN14311\_BARBARA-XW-PF-VERO13/18\_(LC040B)\_(450\_Typ\_L2)\_(C13709)  
Lamps: 1 x Samsung\_LC040B\_(SPHWW1HDNE25010101)\_CCT=3000k\_(450\_Typ\_L2)\_(C13709\_PF-SOCKET-VERO13-18)\_1115.79lm@250mA\_P=8.075W\_I=0.25A



Luminaire: LEDiL Oy FCN14311 BARBARA-XW-PF-VERO13/18\_(SLE-G5\_LES-11)  
Lamps: 1 x Tridonic\_SLE-G5\_LES-11\_1142.55lm@250mA\_P=8.4070W\_I=0.250A



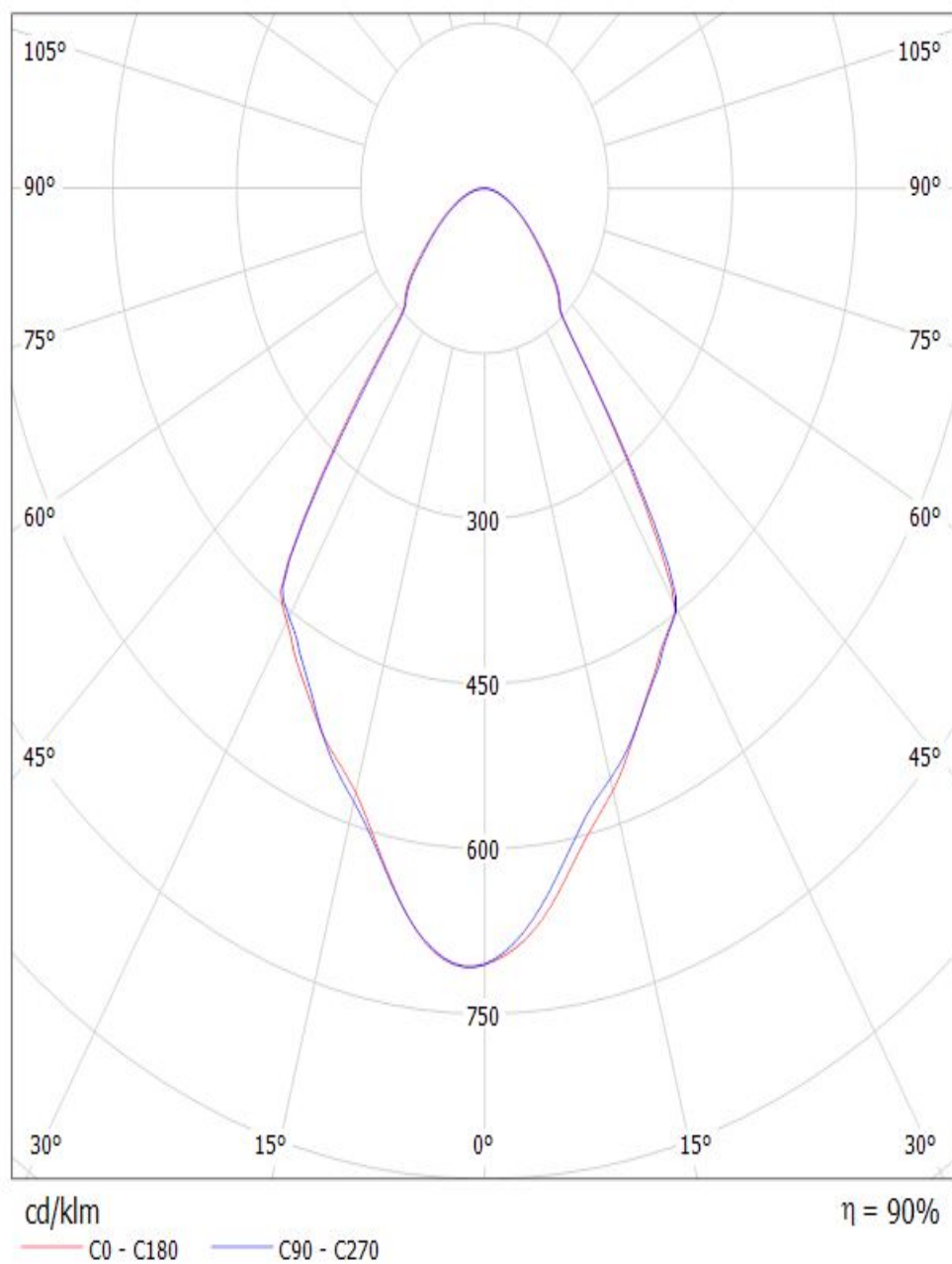
Luminaire: LEDiL Oy FCN14311\_BARBARA-XW-PF-VERO13/18\_(Soleriq\_P9)\_Bender+Wirth\_connector\_461  
Lamps: 1 x Osram\_Soleriq\_P9\_(GQ\_MAFJB1.EM)\_875.631lm@250mA\_P=6.94894W\_l=0.2498A



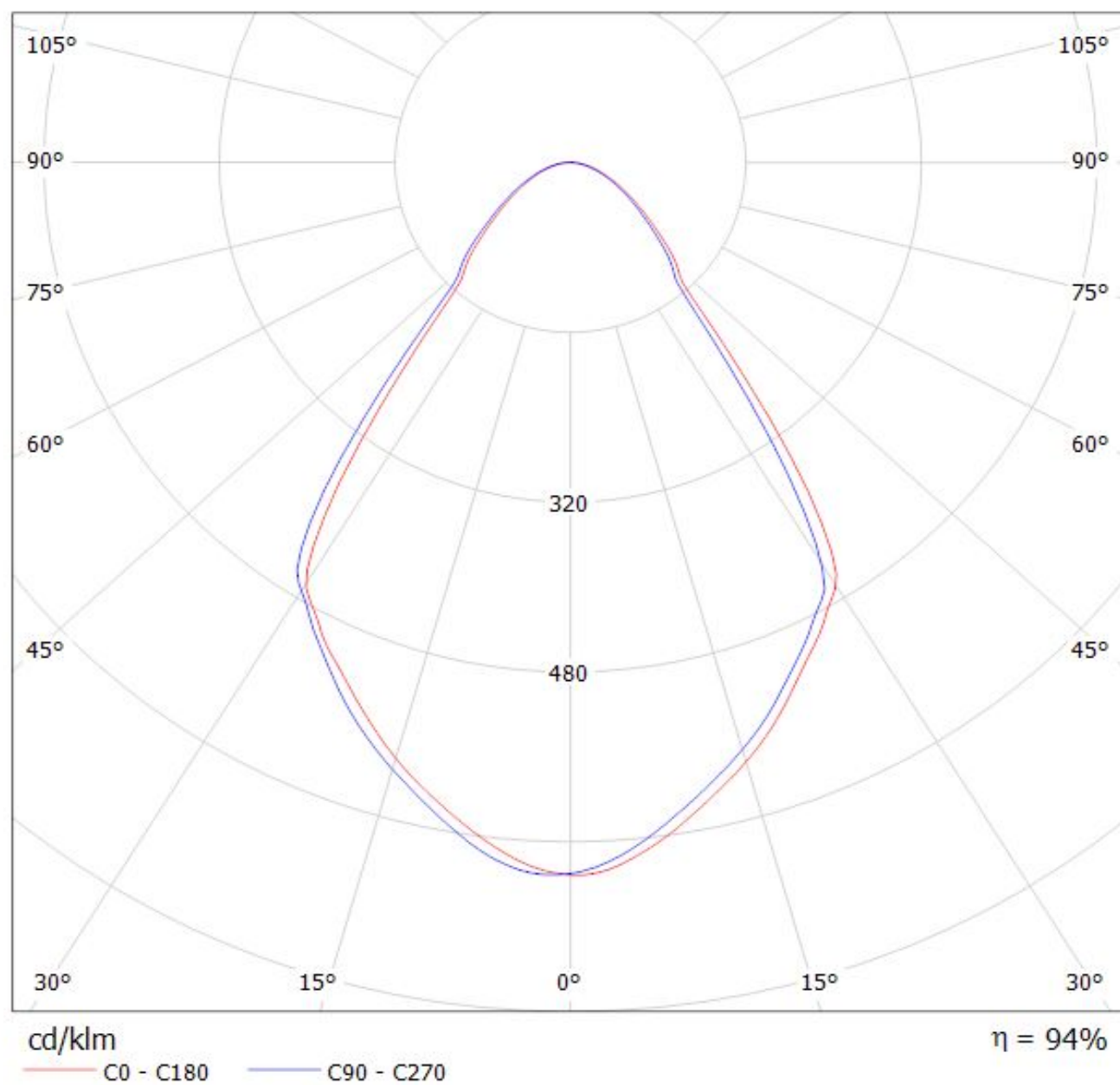


Luminaire: LEDiL Oy FCN14311\_BARBARA-XW-PF-VERO13-18\_(Luxeon CoB 1203)

Lamps: 1 x Luxeon\_COB\_1203\_(LHC1-3080-1203)\_(C13868\_LENA-STD-BASE-VERO13-18)\_(438\_Typ\_L1)\_990.381lm@250mA\_P=8.6818W\_I=0.2498A

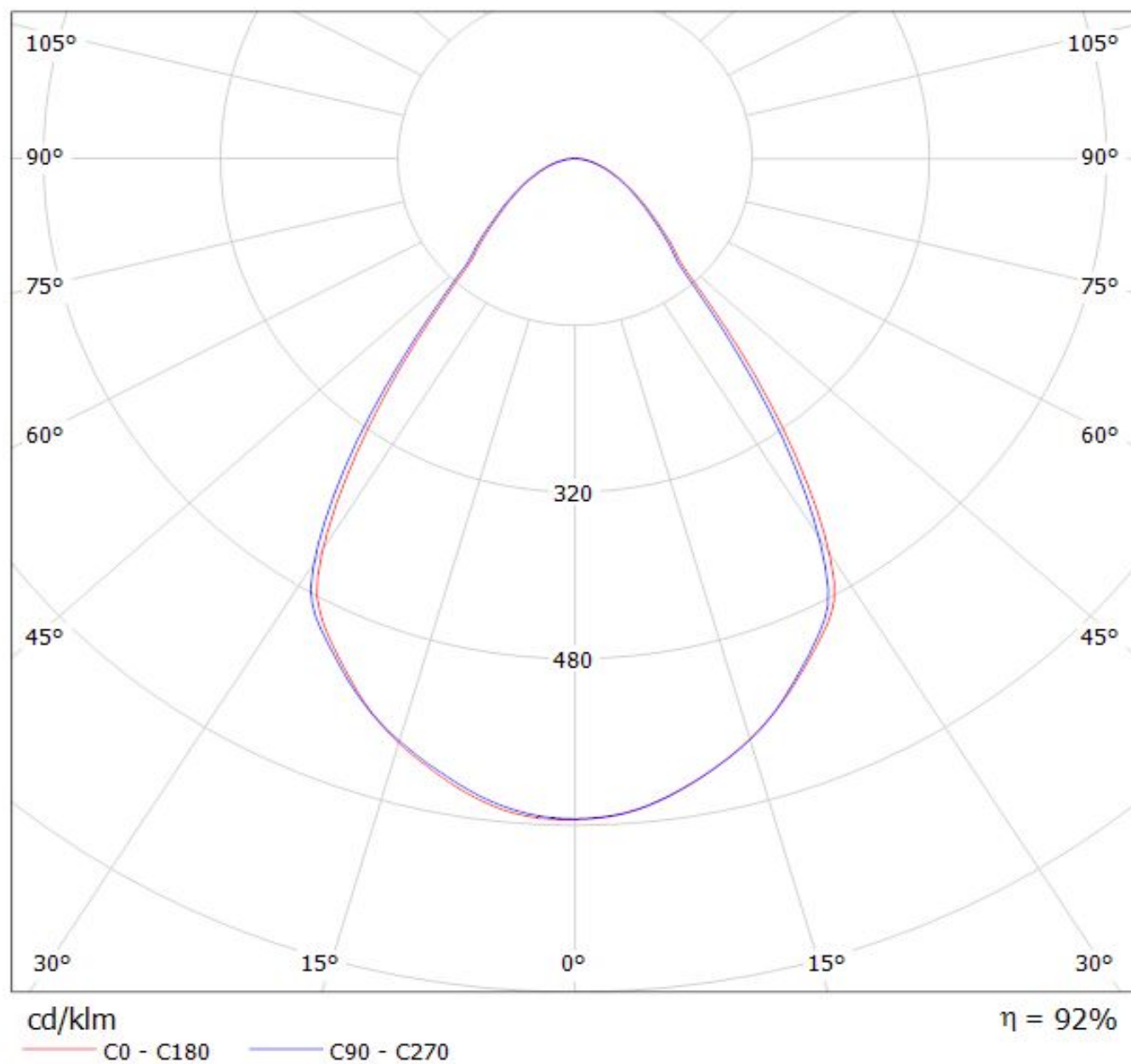


Luminaire: LEDiL Oy FCN14311\_BARBARA-XW-PF-VERO1318  
Lamps: 1 x VERO13\_1019.56@250mA\_P=7.54246W\_I=249.8mA





Luminaire: LEDiL Oy FCN14311\_BARBARA-XW-PF-VERO1318  
Lamps: 1 x VERO18\_878.76lm@250mA\_P=6.73231W\_I=249.9mA



**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.**

#### **GENERAL INFORMATION**

- Product series especially designed & optimized for series of LEDs.
- Special care taken to make light distribution as uniform as possible.

Note! Due to use of high power COB's with this product, special attention to proper thermal design is highly recommended. LEDiL has no liability for direct, indirect or consecutive damages arising from the LEDiL products being used outside of the recommended temperature range.