

DETAILS

Product Number	FCN13927_BARBARA-W-PF-VERO13/18
Family	Barbara
Type	RefPack
Color	metal
Diameter	70 mm
Height	41,7 mm
Style	round
Optic Material	
Holder Material	
Fastening	
Status	production ready
ROHS Compliant	Yes
Date Updated	6/03/2017



OPTICAL PROPERTIES

LED	Viewing Angle	Light Beam	Efficiency	cd/lm	Connector
VERO13	36 deg	Wide	93 %	2.000	-
VERO18	45 deg	Wide	92 %	1.500	-
Xenio Point 13mm	36 deg	Wide	91 %	1.960	LEDiL: LEDiL
Xenio Point 18mm	46 deg	Wide	89 %	1.430	LEDiL: LEDiL
V10 Gen7	sim: 31	Wide	sim: 90 %	sim: 2.450	Bender Wirth: 434 Typ L1
CLL03x/CLU03x	41 deg	Wide	87 %	1.600	Bender Wirth: 433 Typ L1
CLU700/701	22 deg	Wide	89 %	3.300	Bender Wirth: 434 Typ L1
CLL02x/CLU02x (LES10)	32 deg	Wide	88 %	2.300	Bender Wirth: 434 Typ L1
CXA/B 1816 & CXA/B 1820 & CXA 1850	36 deg	Wide	88 %	2.000	Bender Wirth: 437 Typ L1
CXA/B 15xx	30 deg	Wide	88 %	2.500	Bender Wirth: 441 Typ L1
LUXEON CoB 1202/1203	31 deg	Wide	90 %	2.400	Bender Wirth: 438 Typ L1
CXM-14	sim: 41	Wide	sim: 87 %	sim: 1.600	Bender Wirth: 433 Typ L1
CXM-9	sim: 32	Wide	sim: 88 %	sim: 2.300	Bender Wirth: 434 Typ L1
COB L-Type (LES 9)	30 deg	Wide	91 %	2.500	Bender Wirth: 438 Typ L1
COB J-Type	40 deg	Wide	88 %	1.700	Bender Wirth: 463 Typ L2
COB L-Type (LES 11)	35 deg	Wide	88 %	2.000	Bender Wirth: 438 Typ L1
Solériq S13	37 deg	Wide	89 %	1.900	Bender Wirth: 437 Typ L1
Solériq S15	sim: 39	Wide	sim: 90 %	sim: 1.810	Bender Wirth: 433 Typ L1
LC026B/LC040B	45 deg	Wide	87 %	1.400	Bender Wirth: 450 Typ L2
LC010C	sim: 23	Wide	sim: 90 %	sim: 3.500	Bender Wirth: 479 Typ L1
LC020C	sim: 27	Wide	sim: 89 %	sim: 2.900	Bender Wirth: 479 Typ L1
LC040C	sim: 33	Wide	sim: 85 %	sim: 2.100	Bender Wirth: 480 Typ L1
ZC12/18	sim: 41	Wide	sim: 87 %	sim: 1.600	Bender Wirth: 433 Typ L1
ZC4/6	sim: 32	Wide	sim: 88 %	sim: 2.300	Bender Wirth: 434 Typ L1
SLE G5 LES11	33 deg	Wide	90 %	2.200	Bender Wirth: 434 Typ L1



PRODUCT DATASHEET
Barbara series
last update 6/3/2017

OPTICAL PROPERTIES

LED	Viewing Angle	Light Beam	Effi- ciency	cd/lm	Connector
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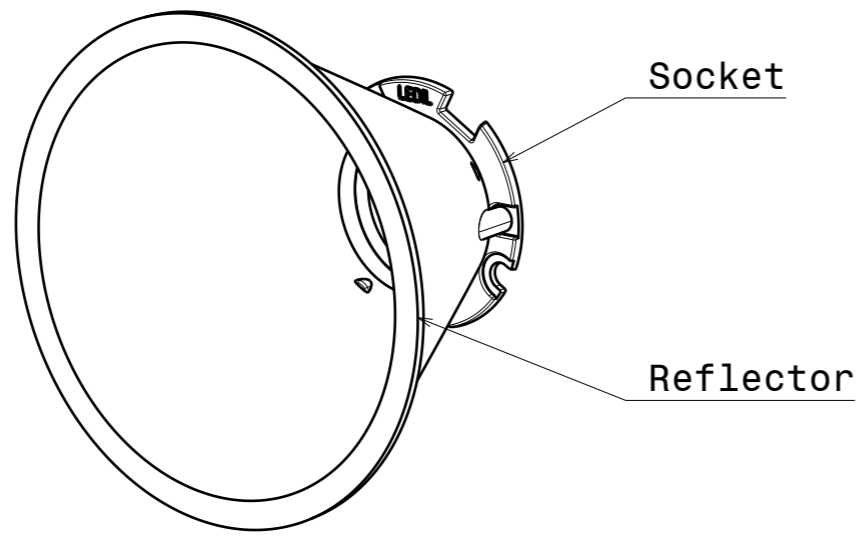
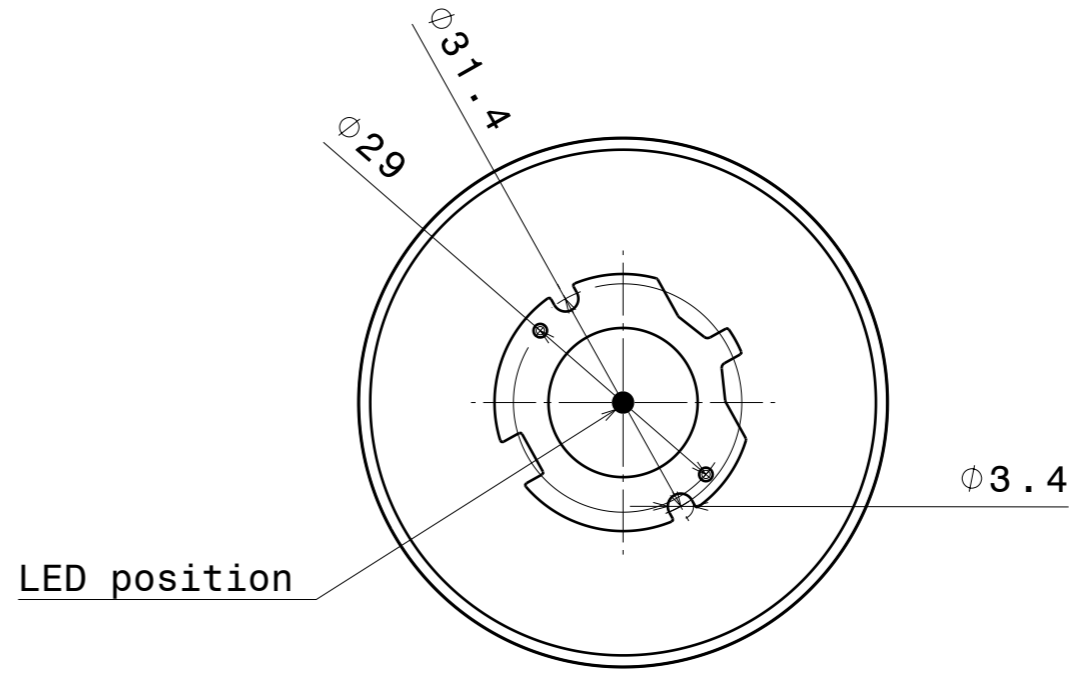
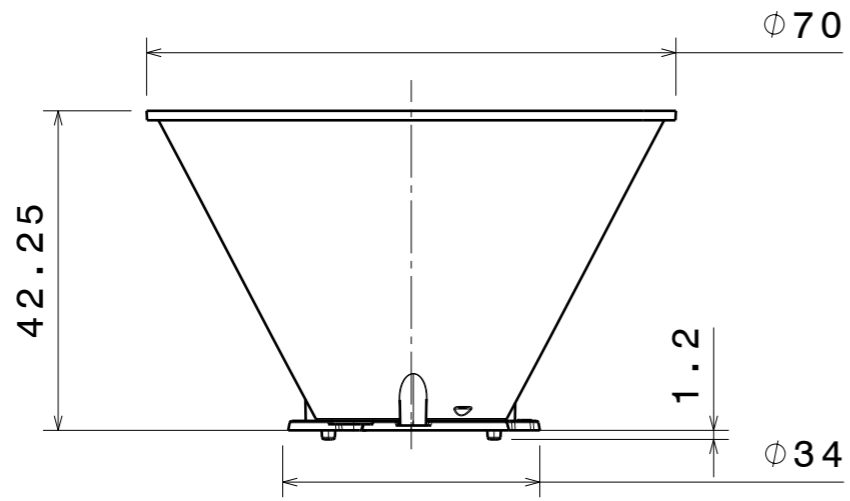
H G F E D C B A

4

3

2

1



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

LEDiL LediL Oy
 Salorankatu 10
 FIN 24240 SALO
 Finland

THIRD ANGLE PROJECTION:

DRAWING TITLE **DATA SHEET BARBARA-PF SOCKET-VERO13-18**

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SIZE **A3** PART NUMBER -

SCALE 1:1 WEIGHT - SHEET 1/1

H G B A

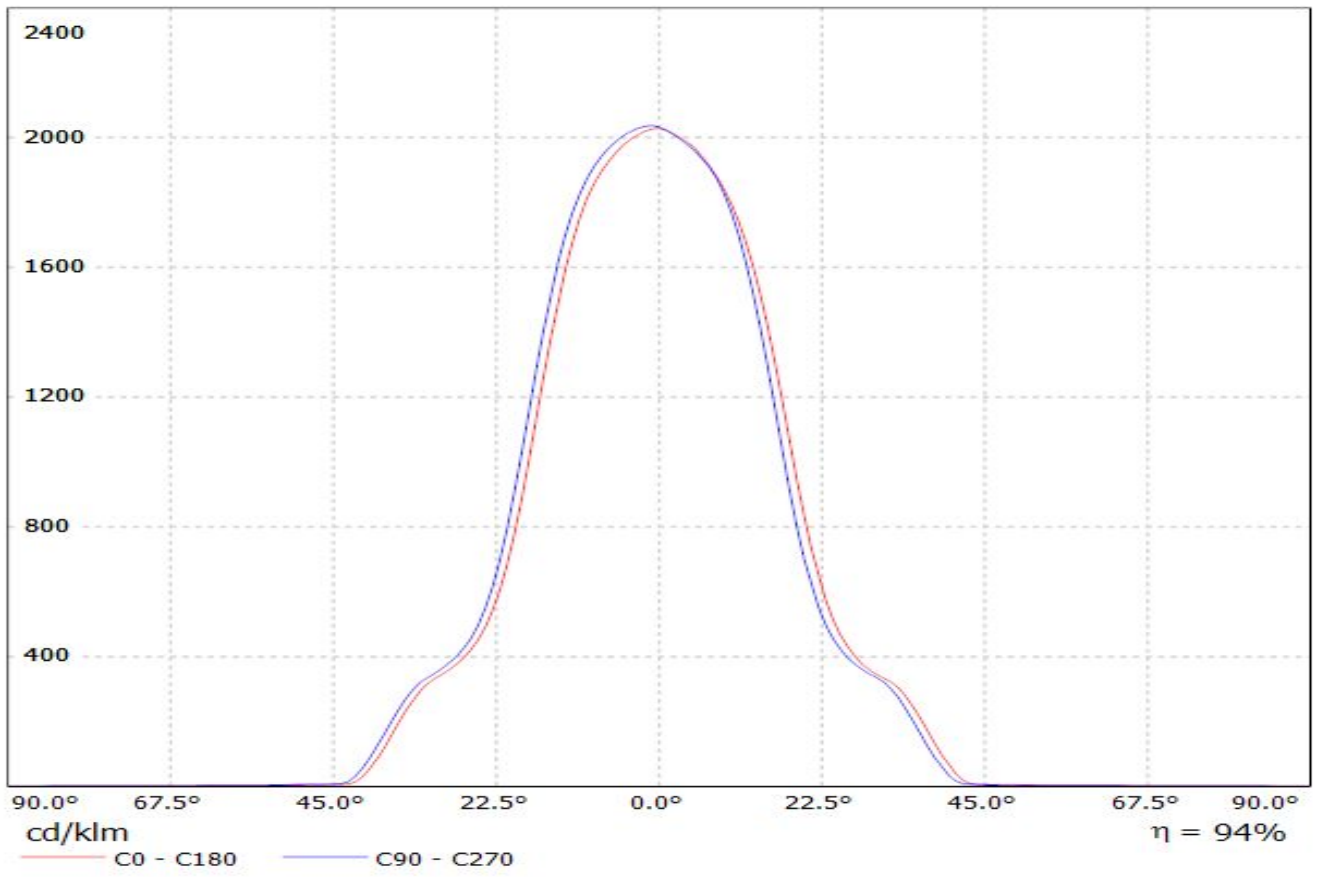
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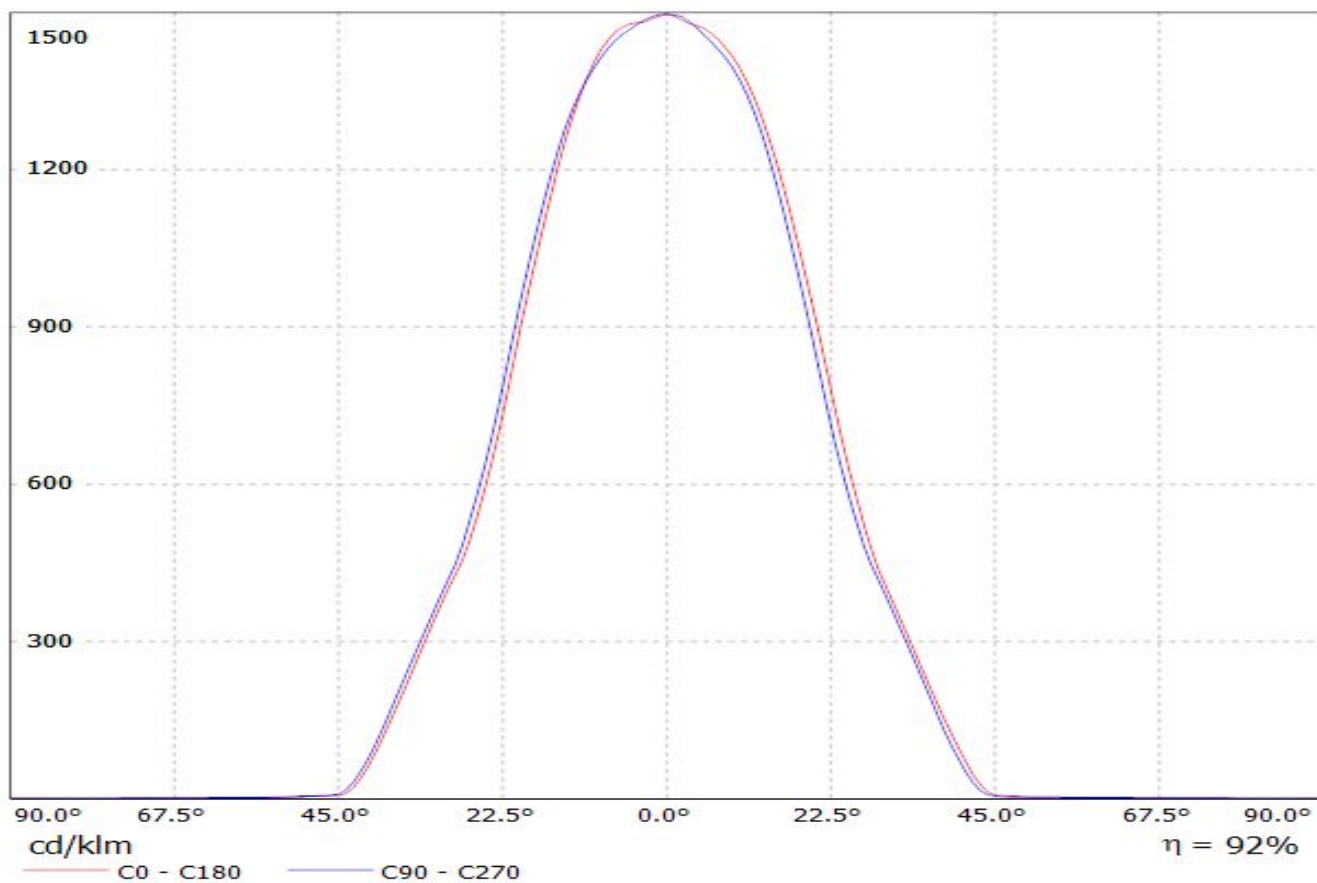
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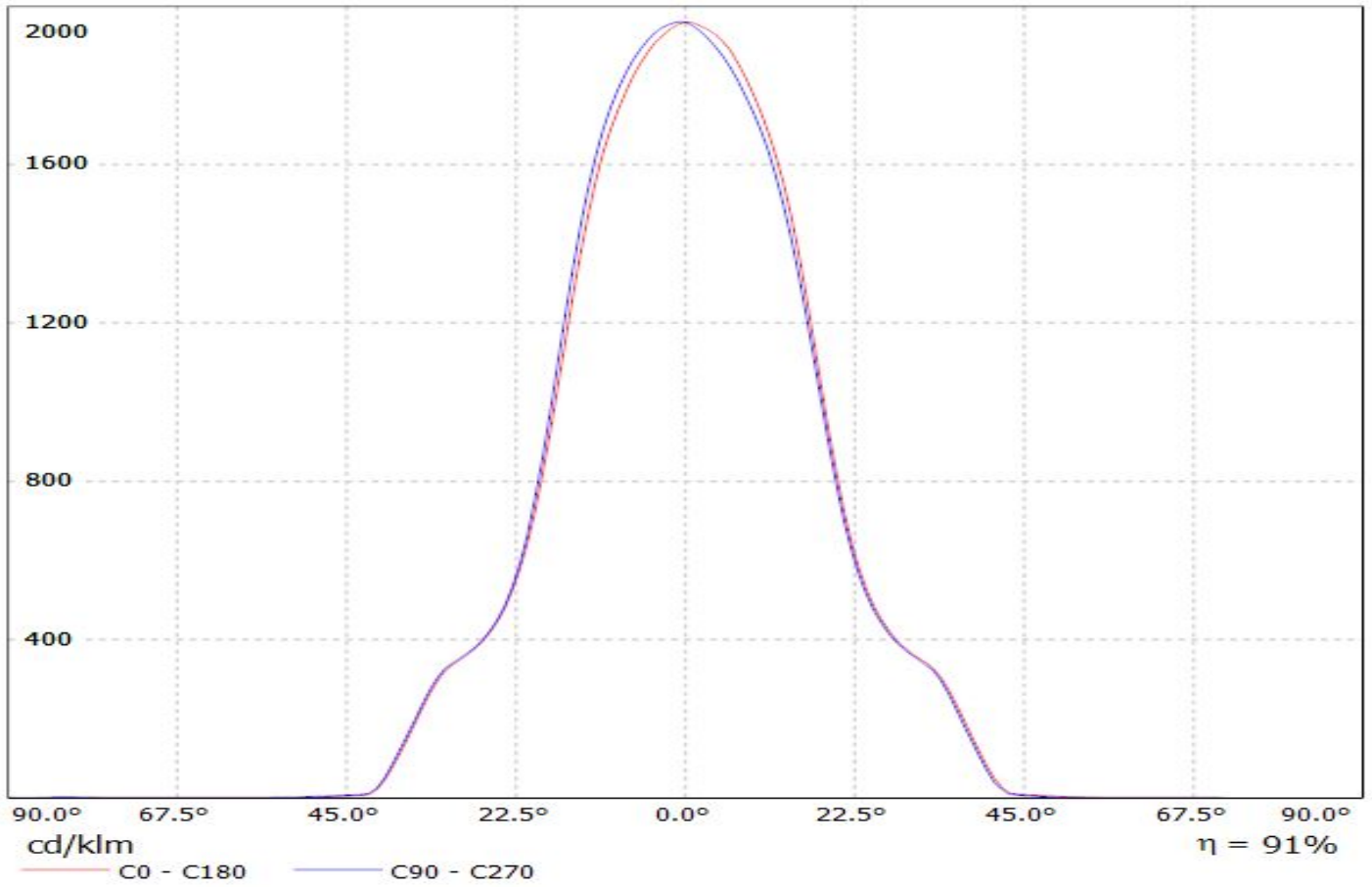
Luminaire: LEDiL Oy FCN13927_BARBARA-W-PF-VERO13/18
Lamps: 1 x VERO13_1029@250mA_P=7.54246W_I=249.8mA



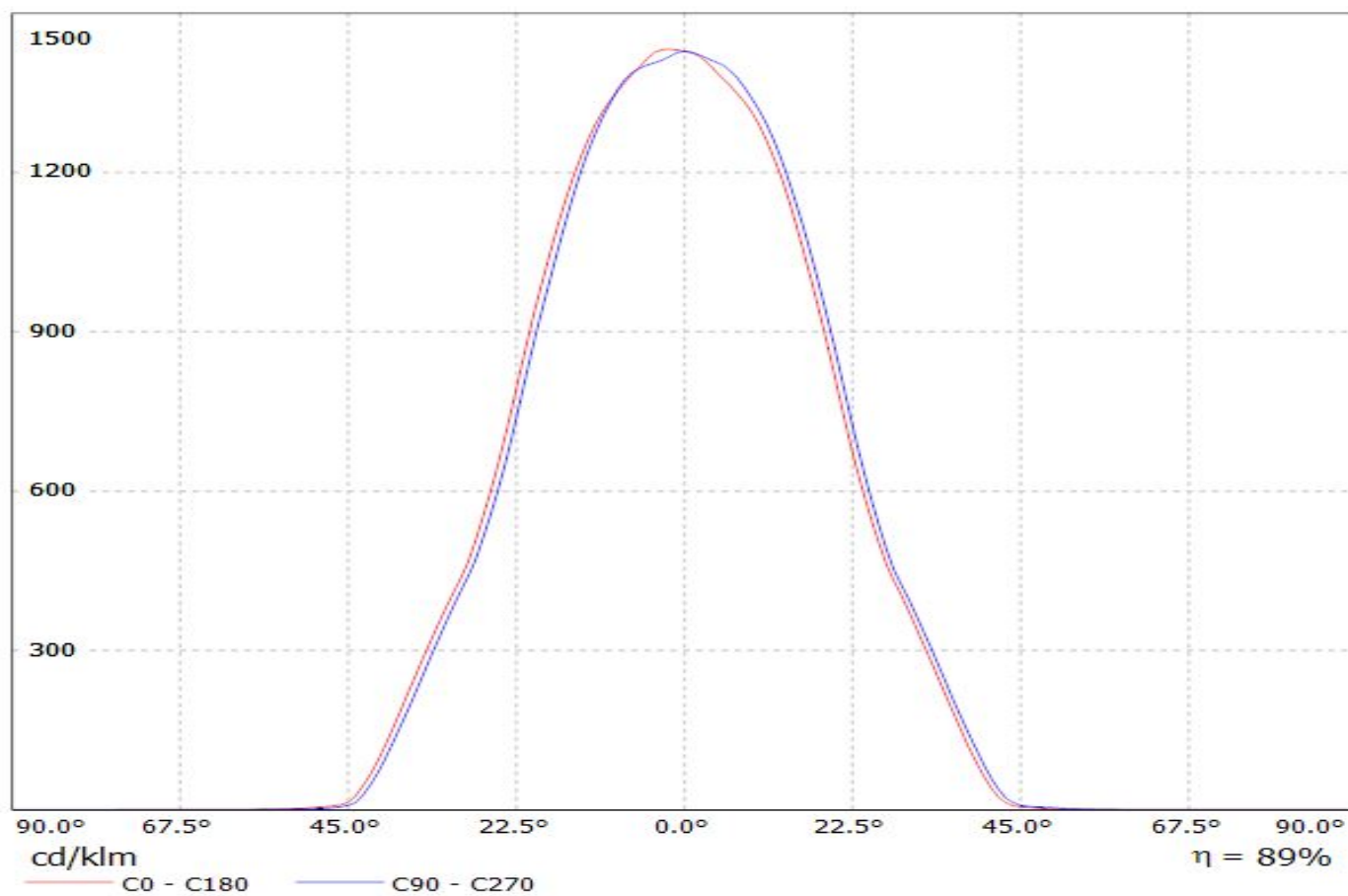
Luminaire: LEDiL Oy FCN13927_BARBARA-W-PF-VERO1318
Lamps: 1 x VERO18_878.76lm@250mA_P=6.73231W_I=249.9mA



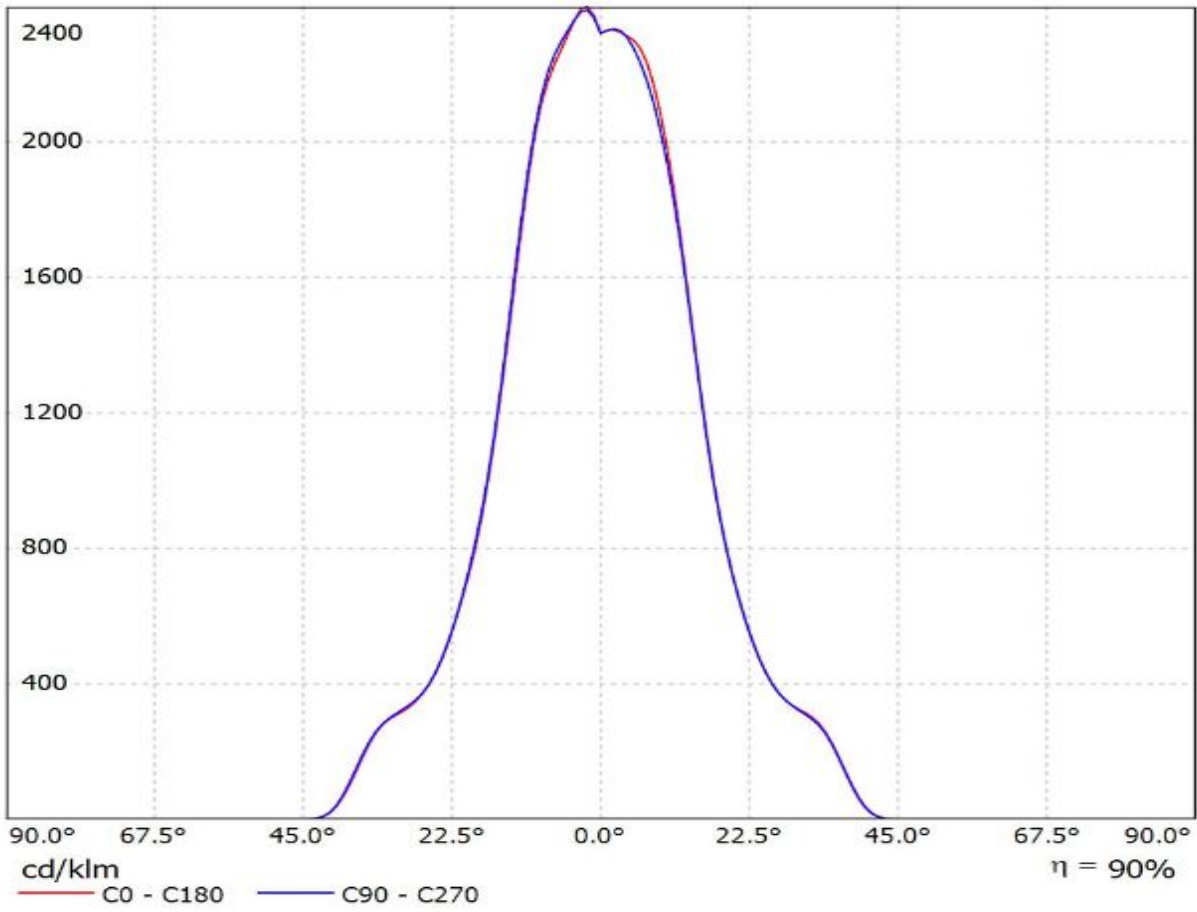
Luminaire: LEDiL Oy FCN13927_BARBARA-W-PF-VERO13/18_(XENIO_13MM)
Lamps: 1 x XENIO_13MM_2074.66lm@?mA_P=23W_I=?A



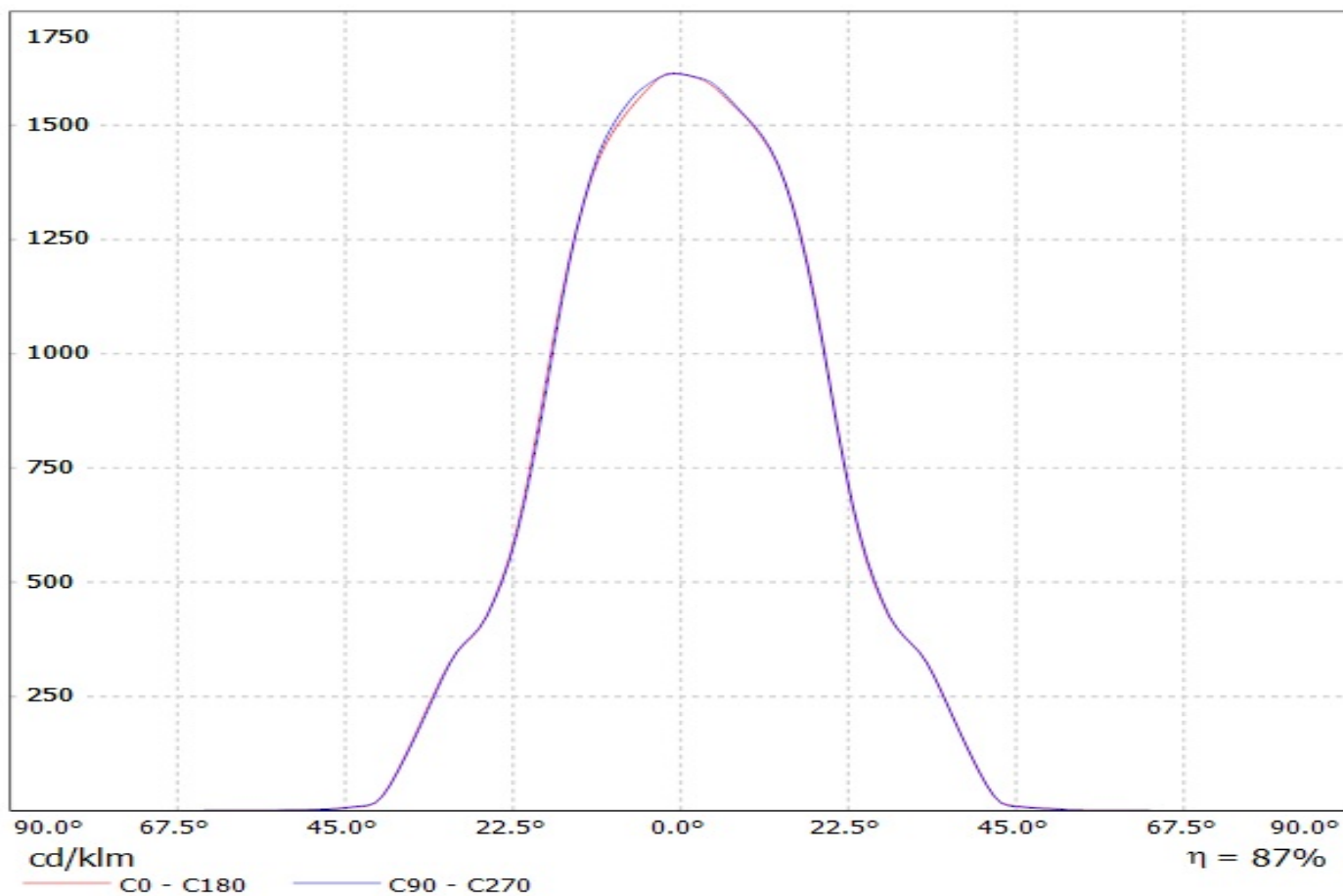
Luminaire: LEDiL Oy FCN13927_BARBARA-W-PF-VERO1318_(Xenio_18mm)
Lamps: 1 x Xenio_18mm_3761.62lm@?mA_P=43W_I=?A



Luminaire: Ledil Oy FCN13927_BARBARA-W-PF-VERO13-18+_B+W_434_TypL1_BRIDGELUX_V10_Gen7
Lamps: 1 x BRIDGELUX V10 Gen7

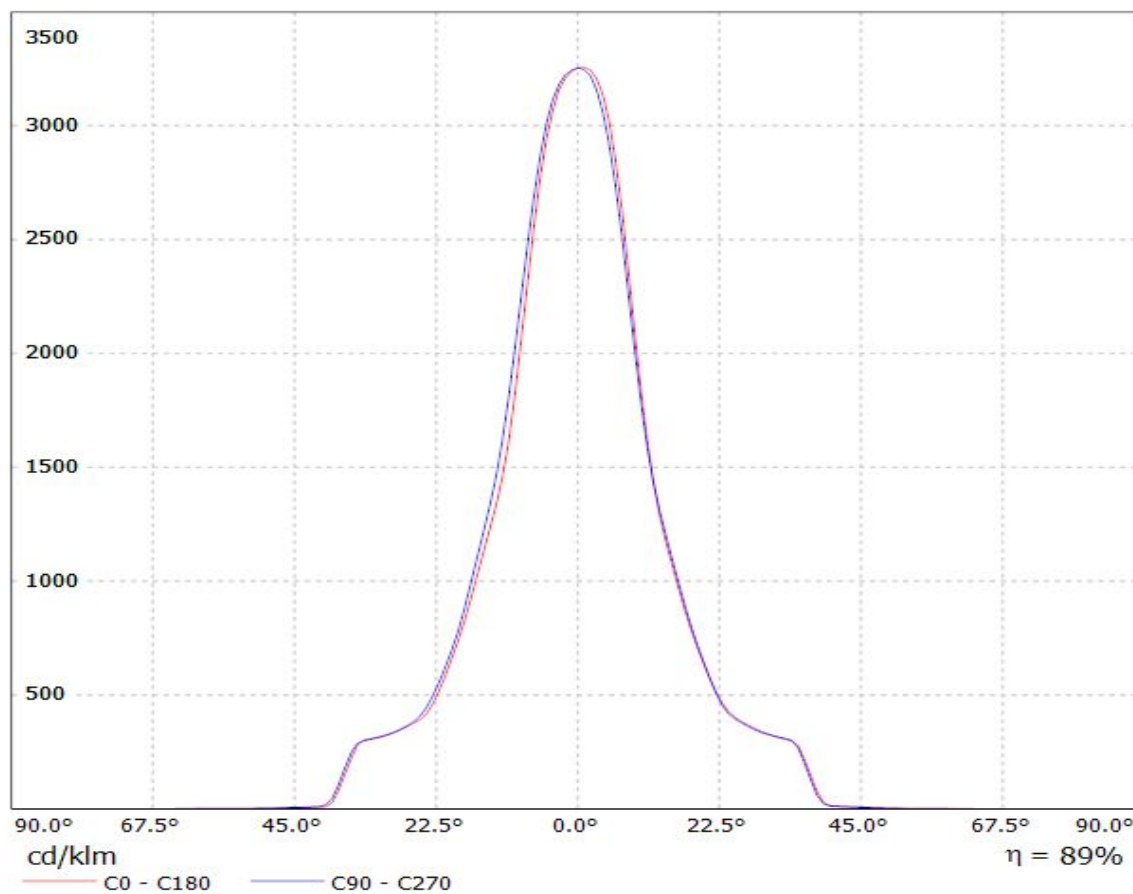


Luminaire: Ledil FCN13927_BARBARA-W-PF-VERO13-18_(CLU034)_ (433_Typ_L1)
Lamps: 1 x Citizen_CLU034_(CLU034-1205B8-303M1A2)_1180.79lm@250mA_P=8.50075W_I=0.25A

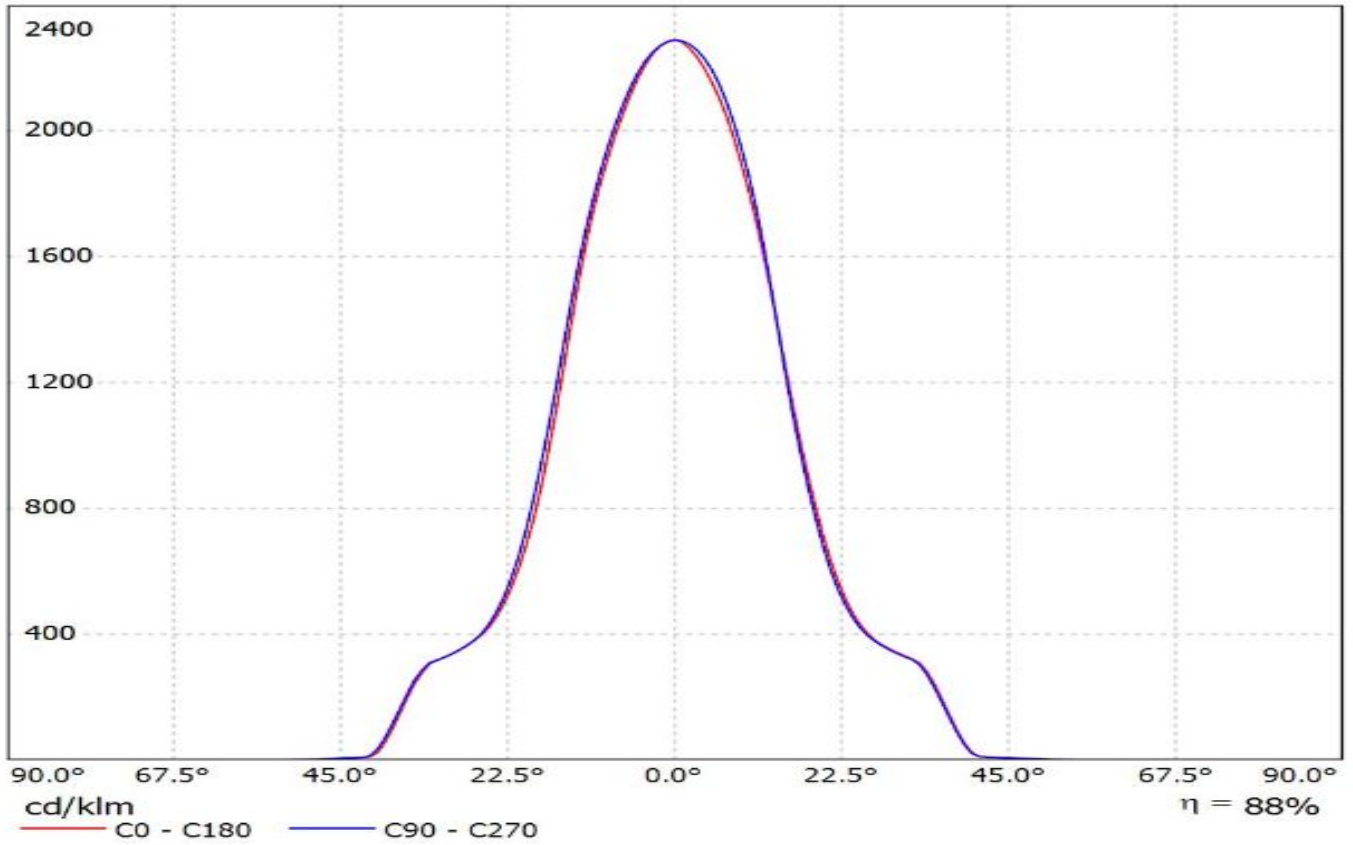


Luminaire: LEDiL Oy FCN13927_BARBARA-W-PF-VERO13-18_(CLU700)

Lamps: 1 x Citizen_CLU700_(CLU700-1002B8-273M2G1)_(C13709)_(434_Typ_L1)_374.62lm@100mA_P=2.81352W_I=0.1002A



Luminaire: Ledil FCN13927_BARBARA-W-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

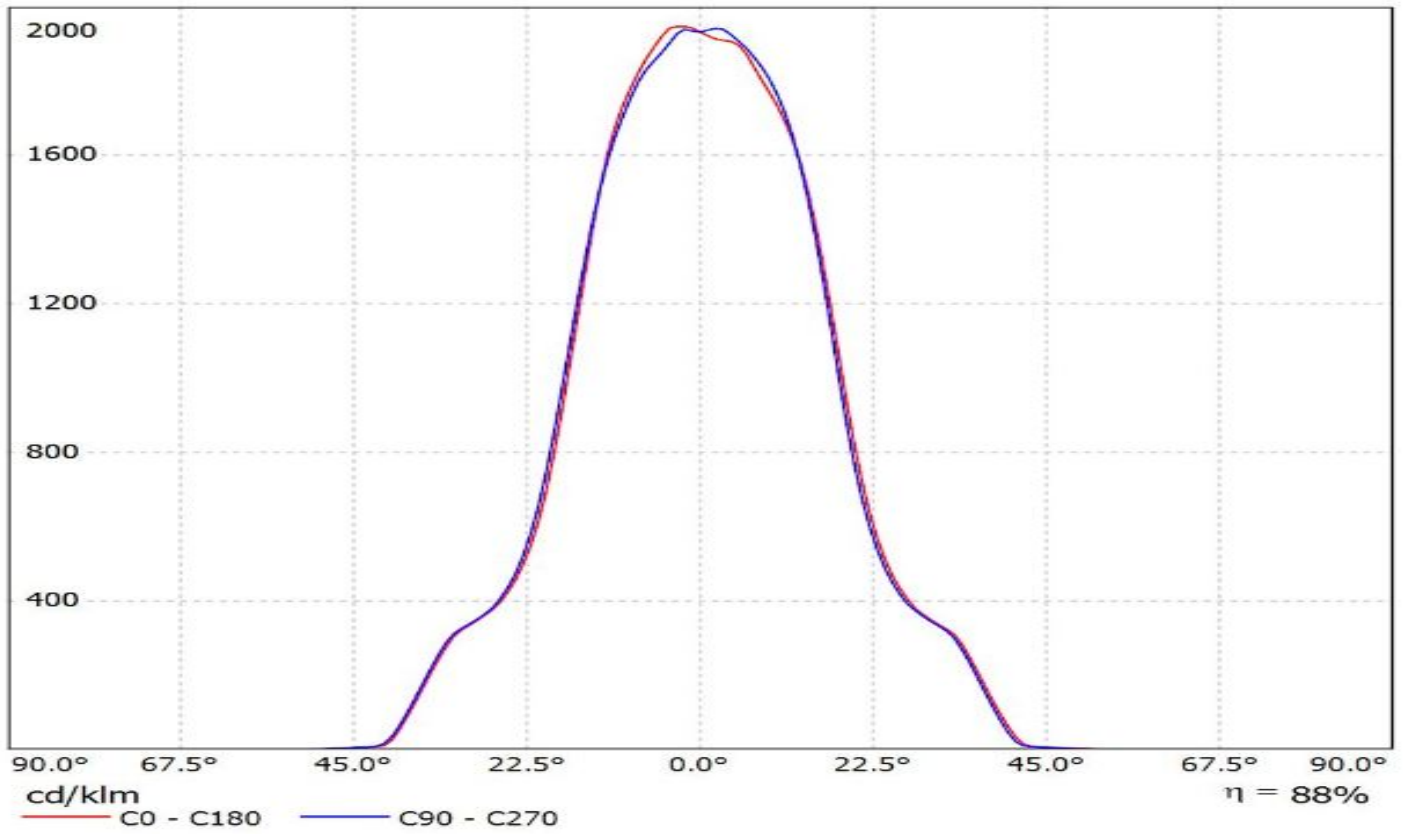


Ledil FCN13927_BARBARA-W-PF-VERO13-18_(CXA1850) / LDC (Linear)

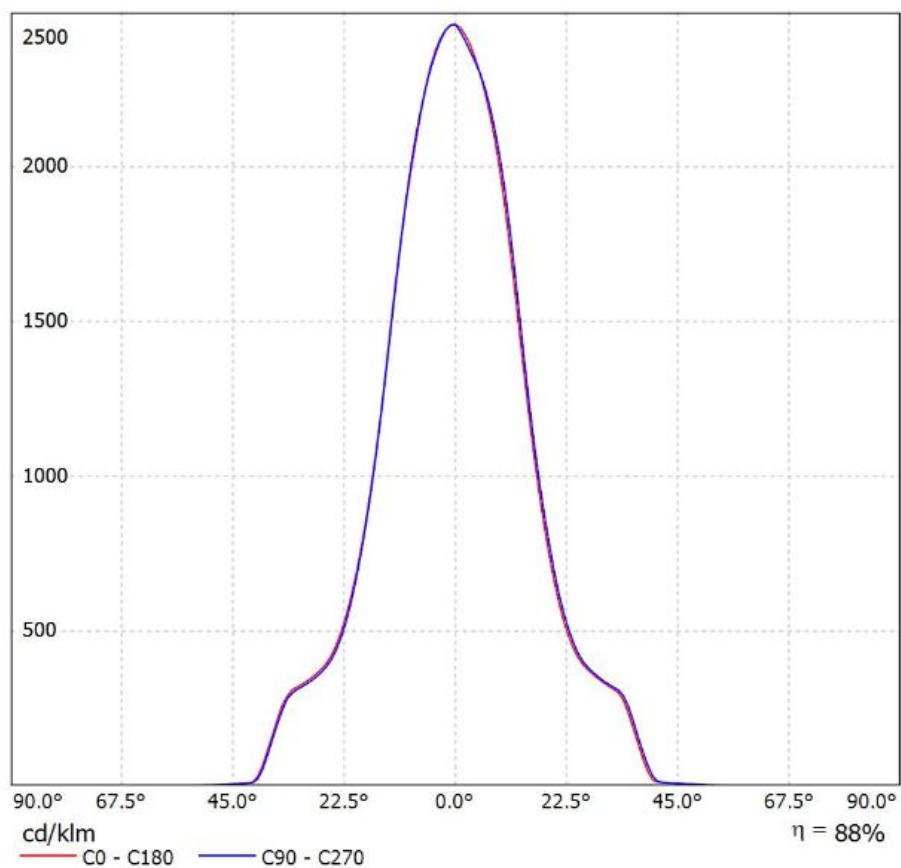
Luminaire: Ledil FCN13927_BARBARA-W-PF-VERO13-18_(CXA1850)

Lamps: 1 x CREE_CXA1850_(CXA1850-30F-T4-N0Y-00001)

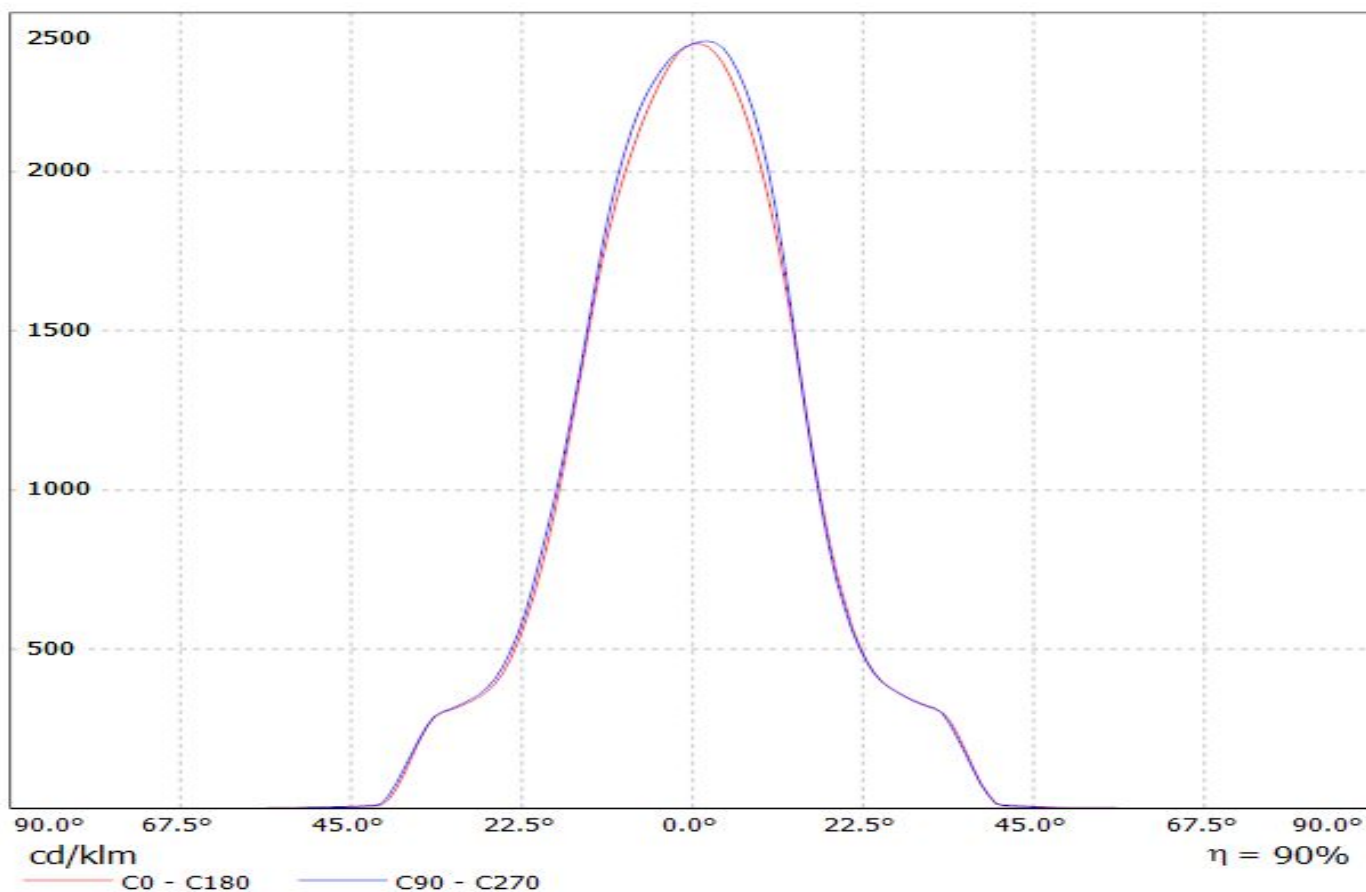
_847.836lm@250mA_CCT=3000K_P=8.27W_I=0.25A



Luminaire: Ledil FCN13927_BARBARA-W-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

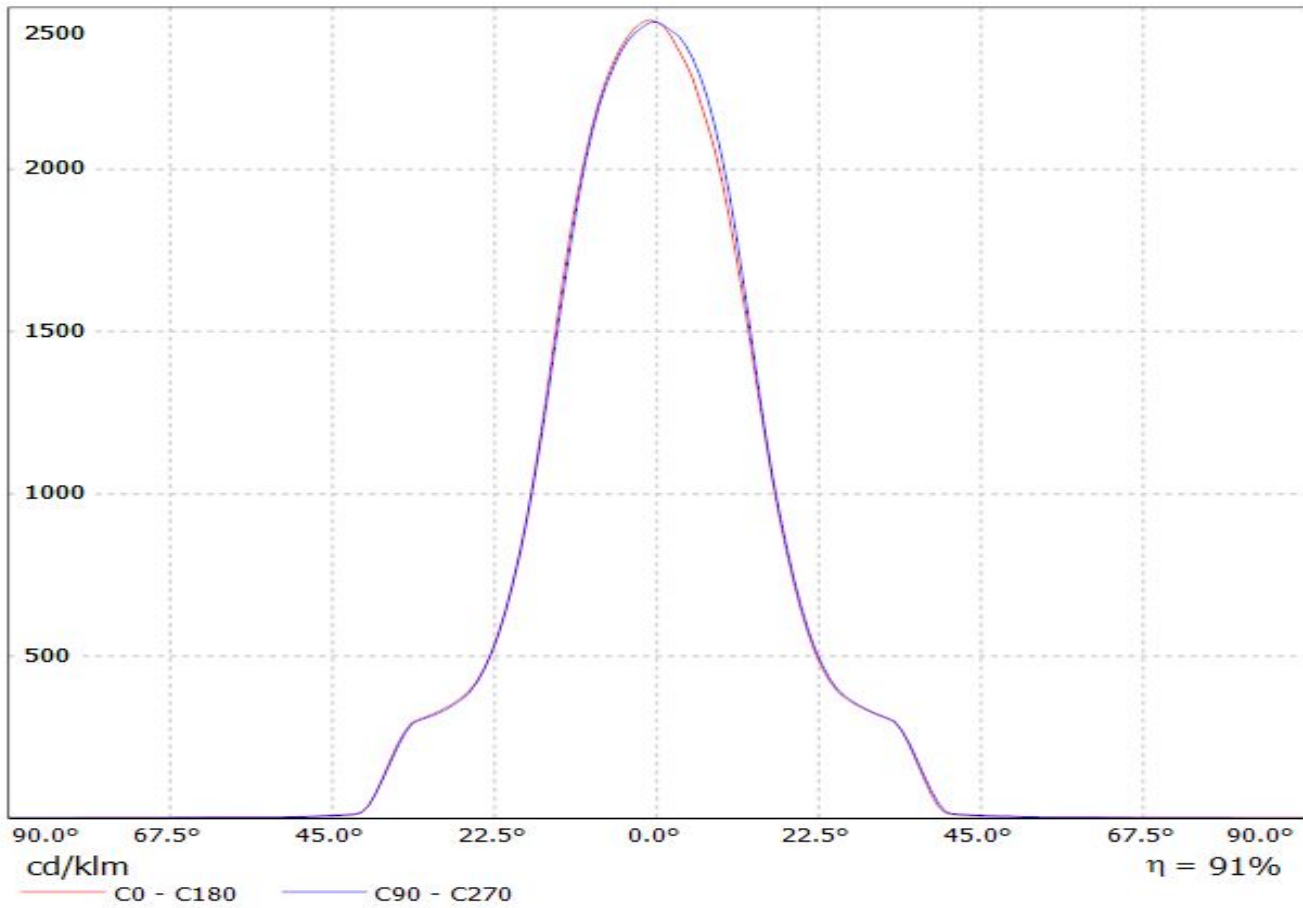


Luminaire: LEDiL Oy FCN13927_BARBARA-W-PF-VERO13/18_(Luxeon_CoB_1203)_ (438_Typ_L1)
Lamps: 1 x Luxeon_CoB_1203_(438_Typ_L1)_C13709_Pf-SOCKET-VERO13-18_994.226lm@250mA_P=8.69429W_I=0.2498A

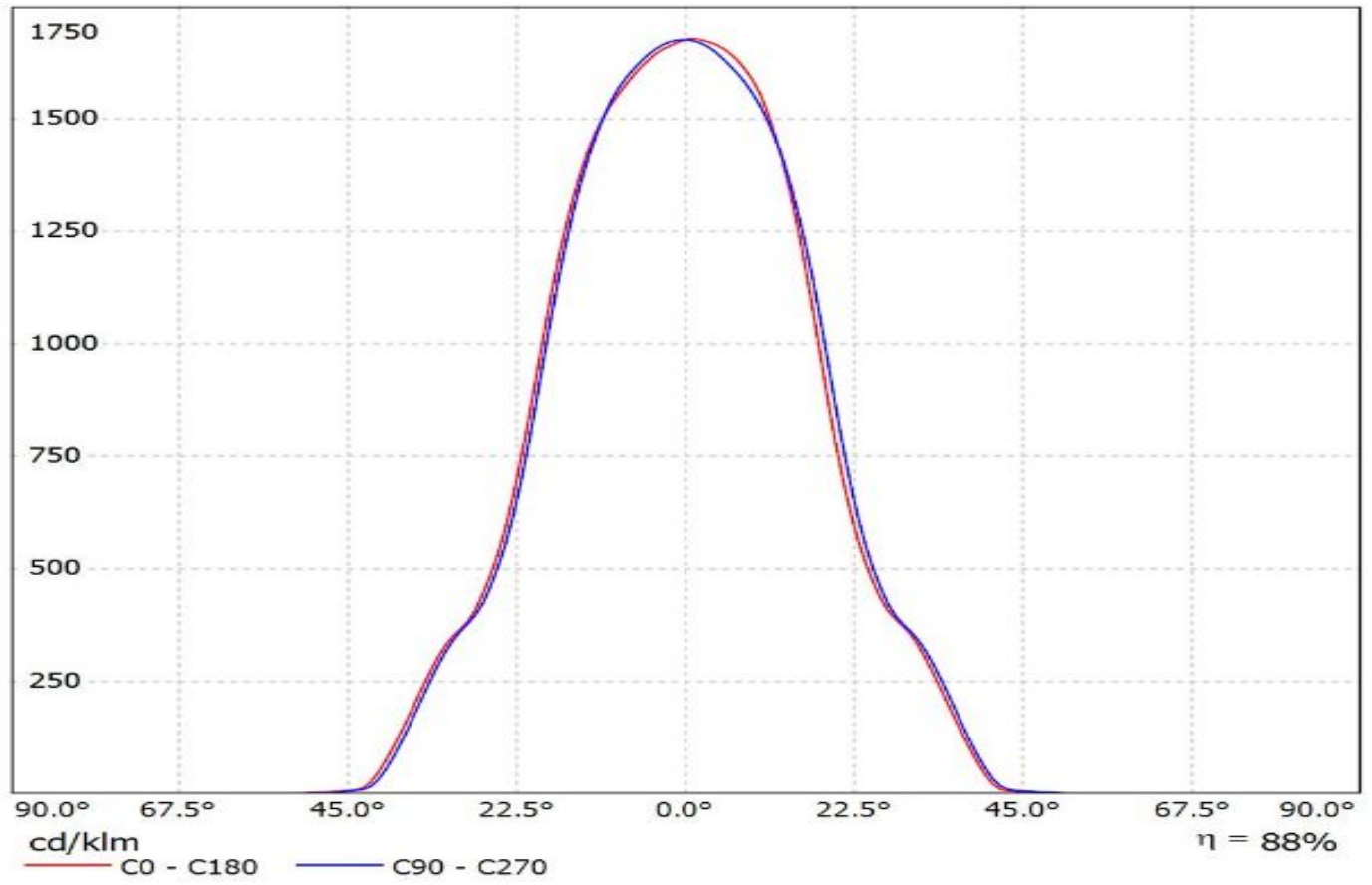


Luminaire: LEDiL Oy FCN13927_BARBARA-W-PF-VERO13-18_(NFCLL036B)

Lamps: 1 x Nichia NFCLL036B (sm403J1300R8000)_542.652lm@100mA_CCT=4000K_P=3.34084W_I=0.100A

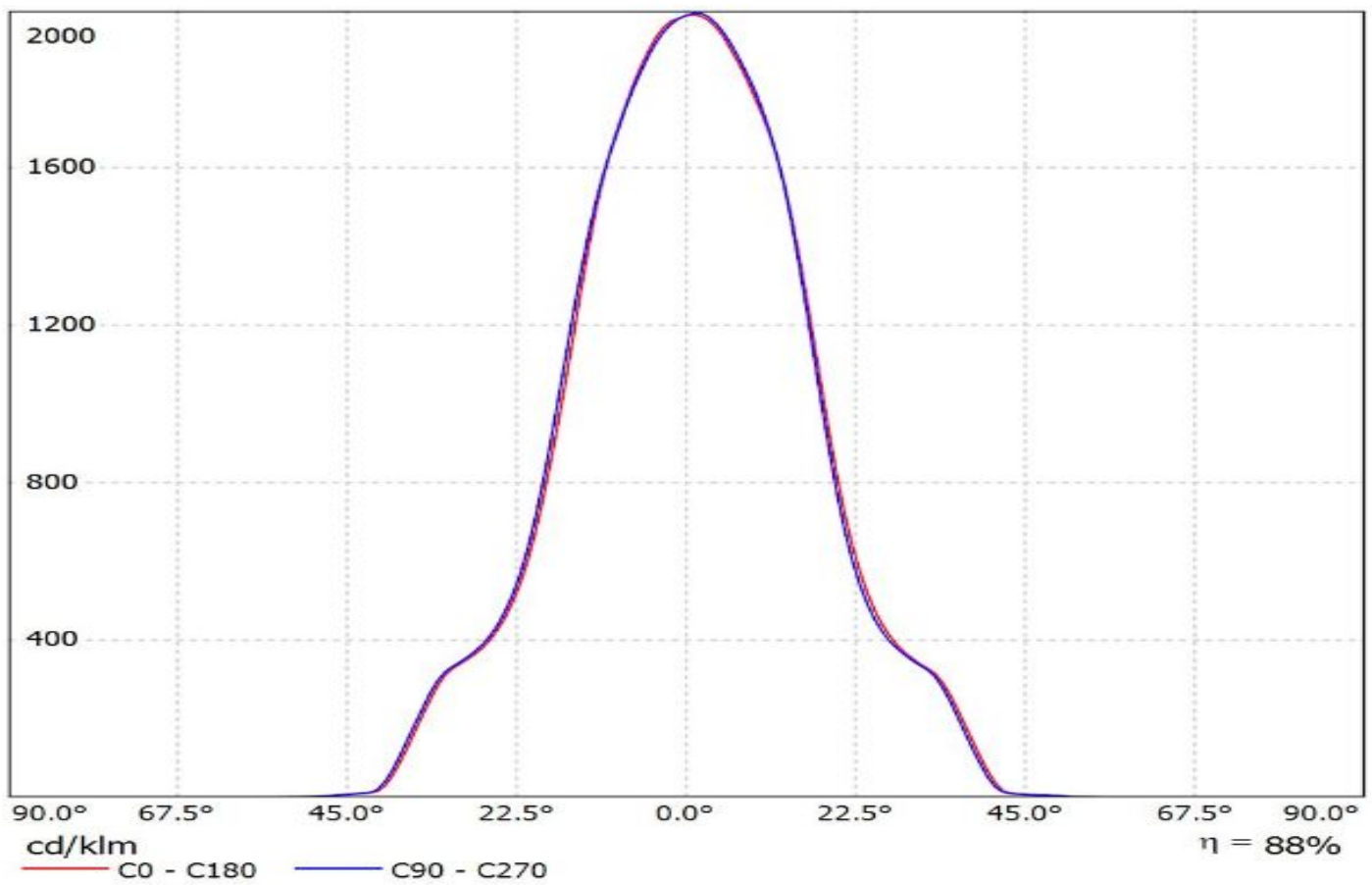


Luminaire: Ledil FCN13927_BARBARA-W-PF-VERO13/18_(NFDxJ130B)
Lamps: 1 x Nichia_NFDxJ130B_(463 Typ L2)_C13709_PF-SOCKET-VERO13-18_1532.05lm@250mA_P=8.27W_I=0.25A



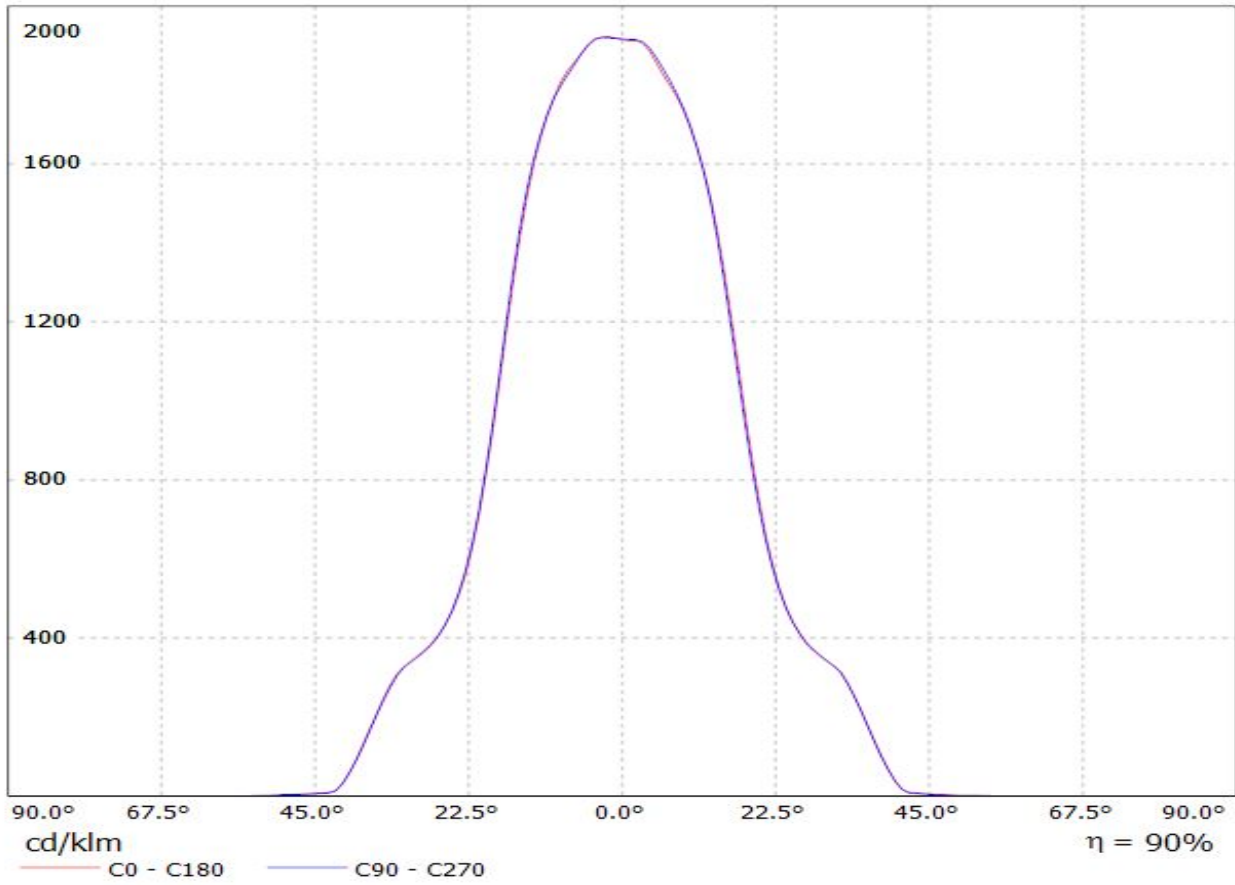
Luminaire: Ledil FCN13927_BARBARA-W-PF-VERO13/18_(NFCLL060B)

Lamps: 1 x Nichia_NFCLL060B_(438_TYP_L1)_1365.88lm@250mA_P=8.375W_I=0.25A

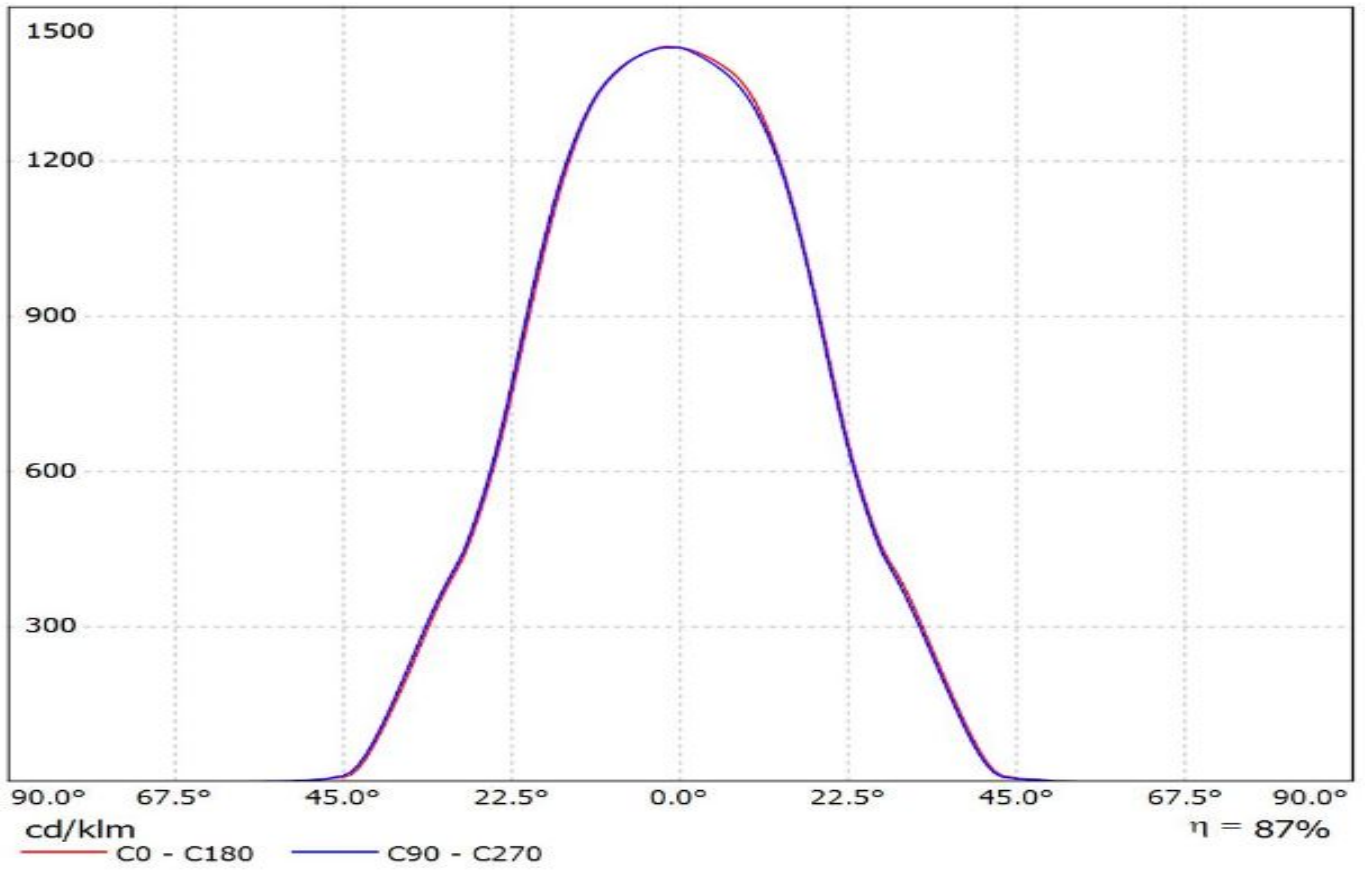


Luminaire: Ledil FCN13927_BARBARA-W-PF-VERO13-18_(Soleriq_S13)

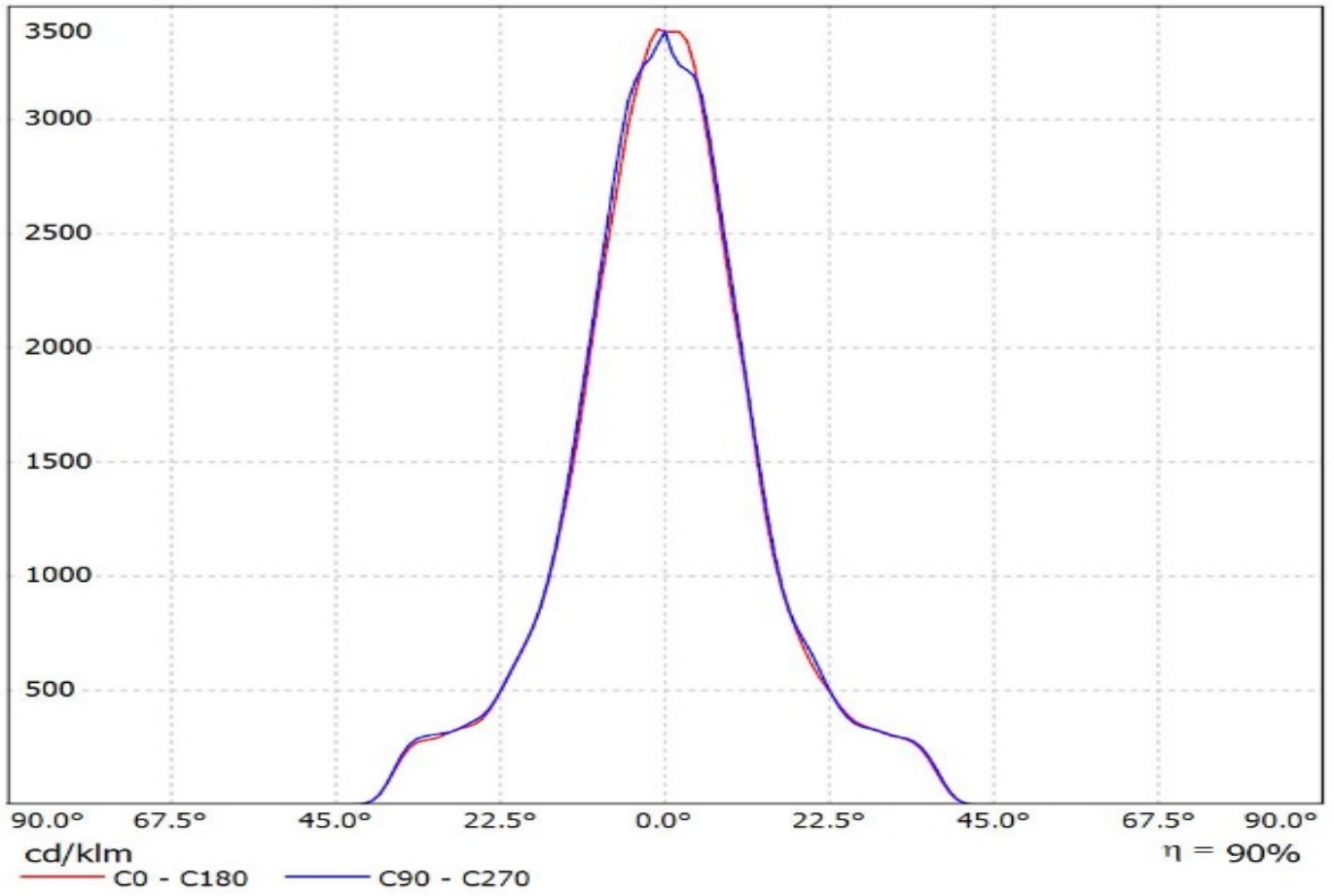
Lamps: 1 x Osram_Soleriq_S13_(GW_KAGHB1.EM)_931.029lm@250mA_P=7.44679W_I=250mA



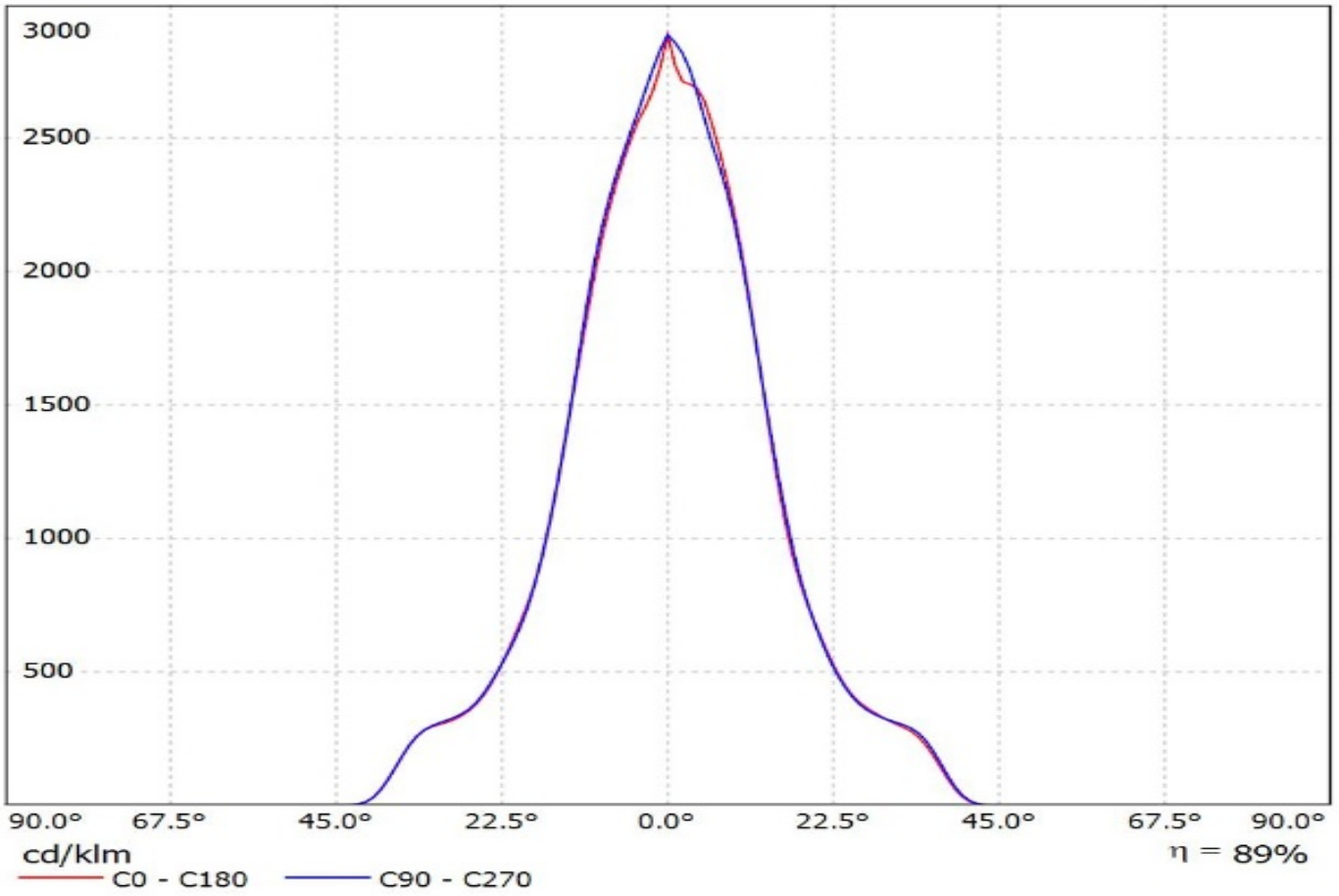
Luminaire: Ledil FCN13927_BARBARA-W-PF-VERO13/18_(LC040B)_(450_Typ_L2)_(C13709)
Lamps: 1 x Samsung_LC040B_(SPHWW1HDNE25010101)_CCT=3000k_(450_Typ_L2)_(C13709_PF-SOCKET-VERO13-18)_1115.79lm@250mA_P=8.075W_I=0.25A



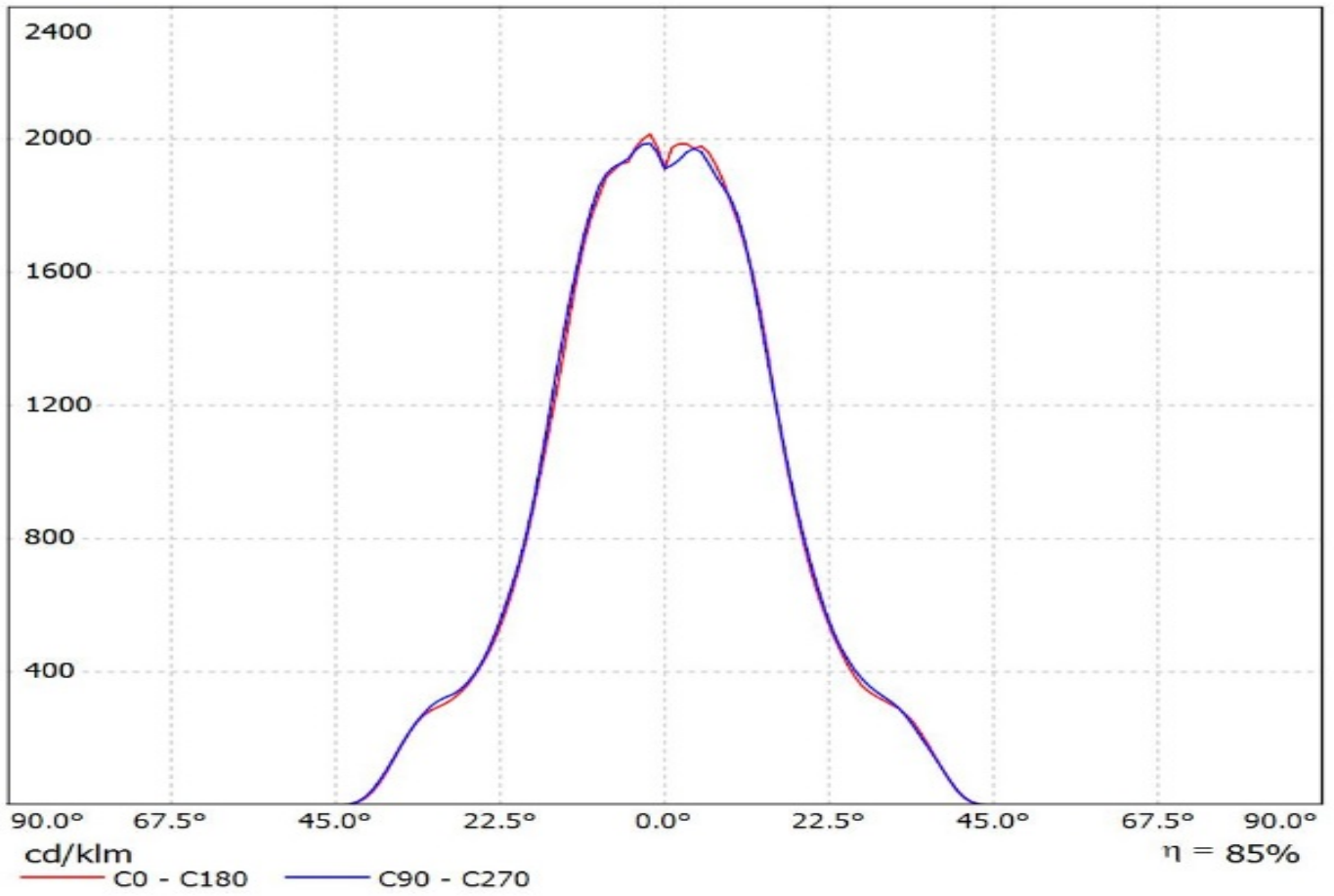
Luminaire: Ledil Oy FCN13927_BARBARA-W-PF-VERO13-18_(LC010C)_(B+W_479_Typ_L1)_SIMULATED
Lamps: 1 x Samsung LC010C + Bender & Wirth 479 Type L1



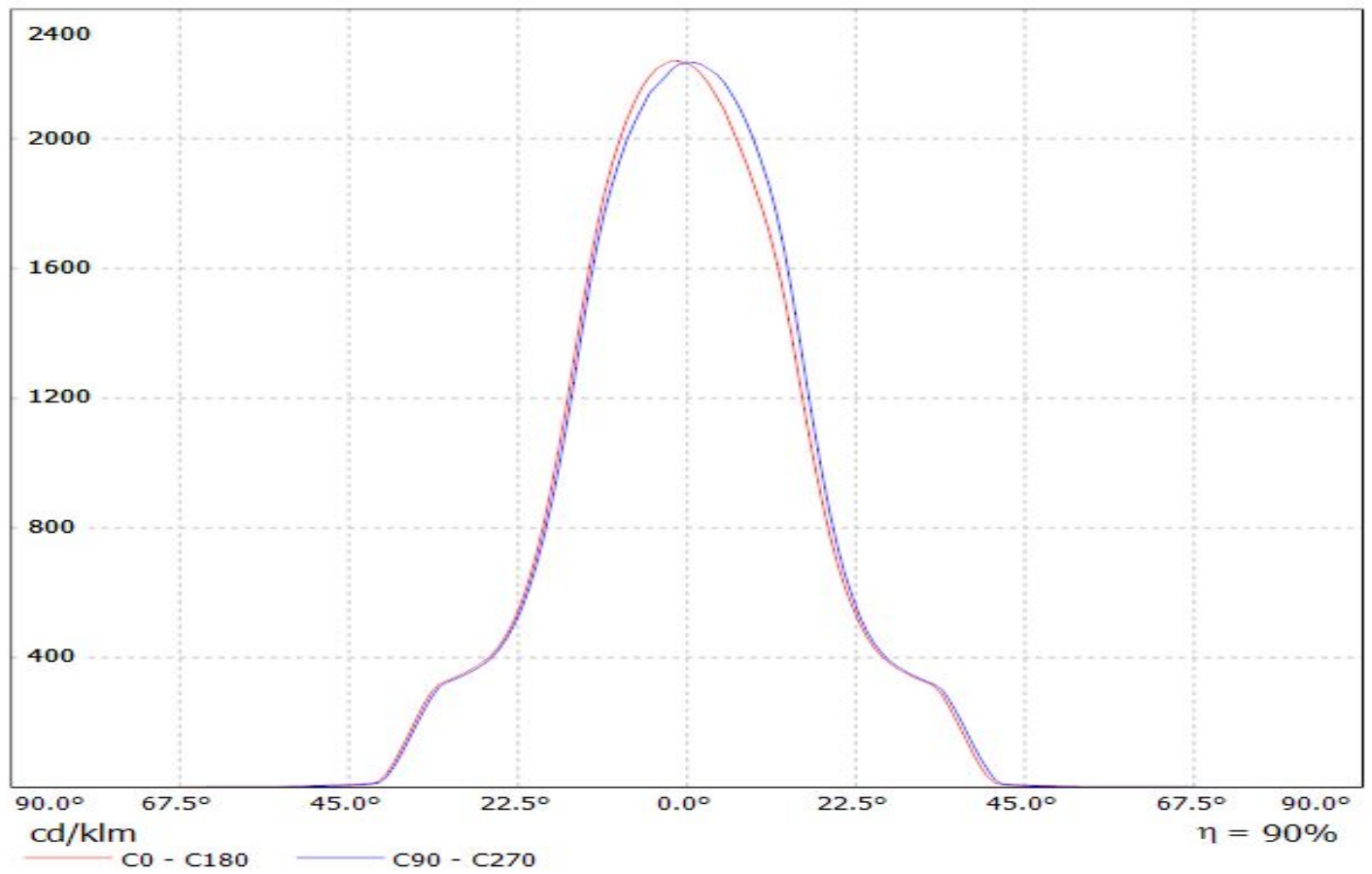
Luminaire: Ledil Oy FCN13927_BARBARA-W-PF-VERO13-18_(LC020C)_(B+W_479_Typ_L1)_SIMULATED
Lamps: 1 x Samsung LC020C + Bender & Wirth 479 Type L1



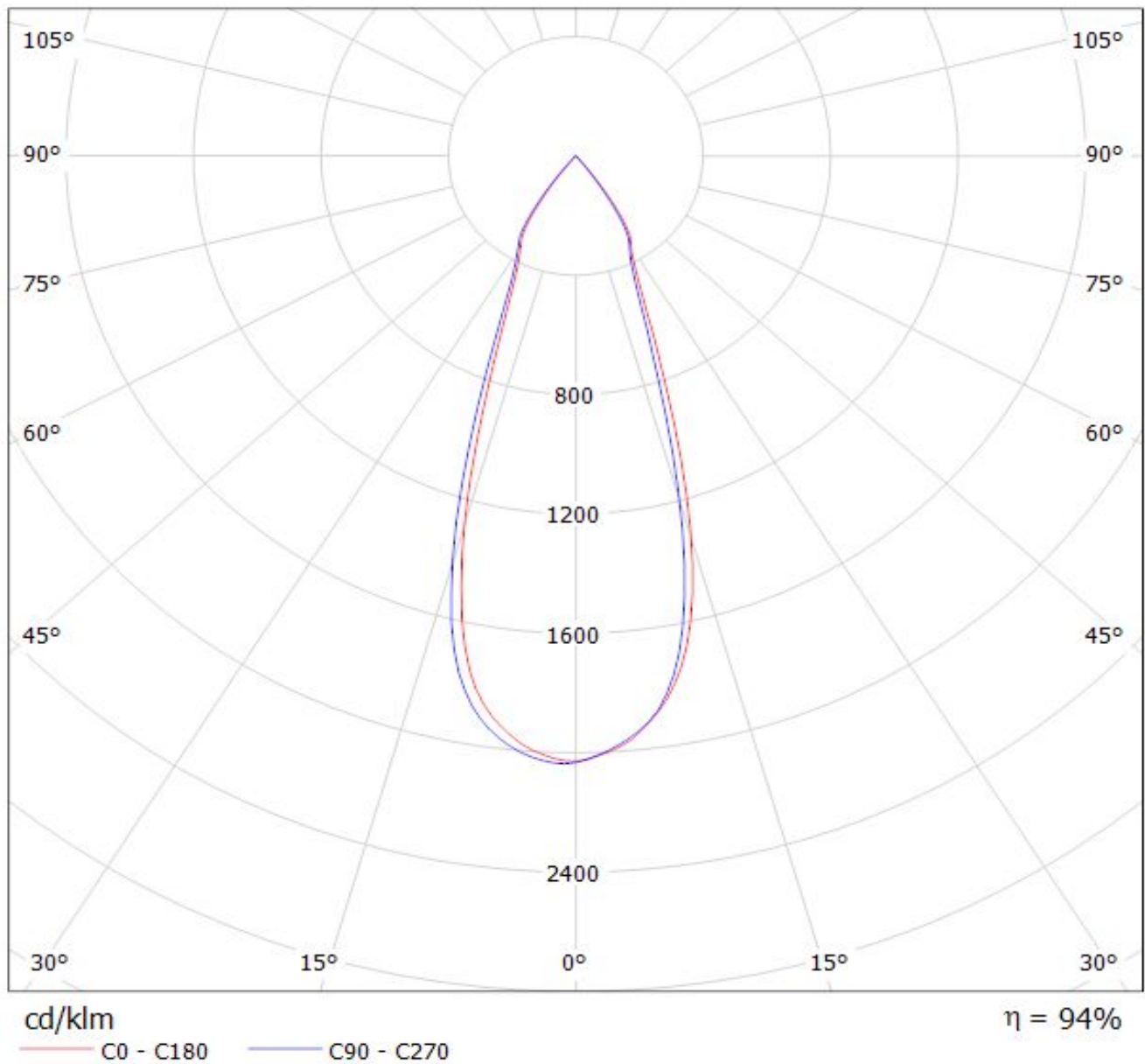
Luminaire: Ledil Oy FCN13927_BARBARA-W-PF-VERO13-18_(LC040C)_(B+W_480_Typ_L1)_SIMULATED
Lamps: 1 x Samsung LC040C + Bender & Wirth 480 TType L1



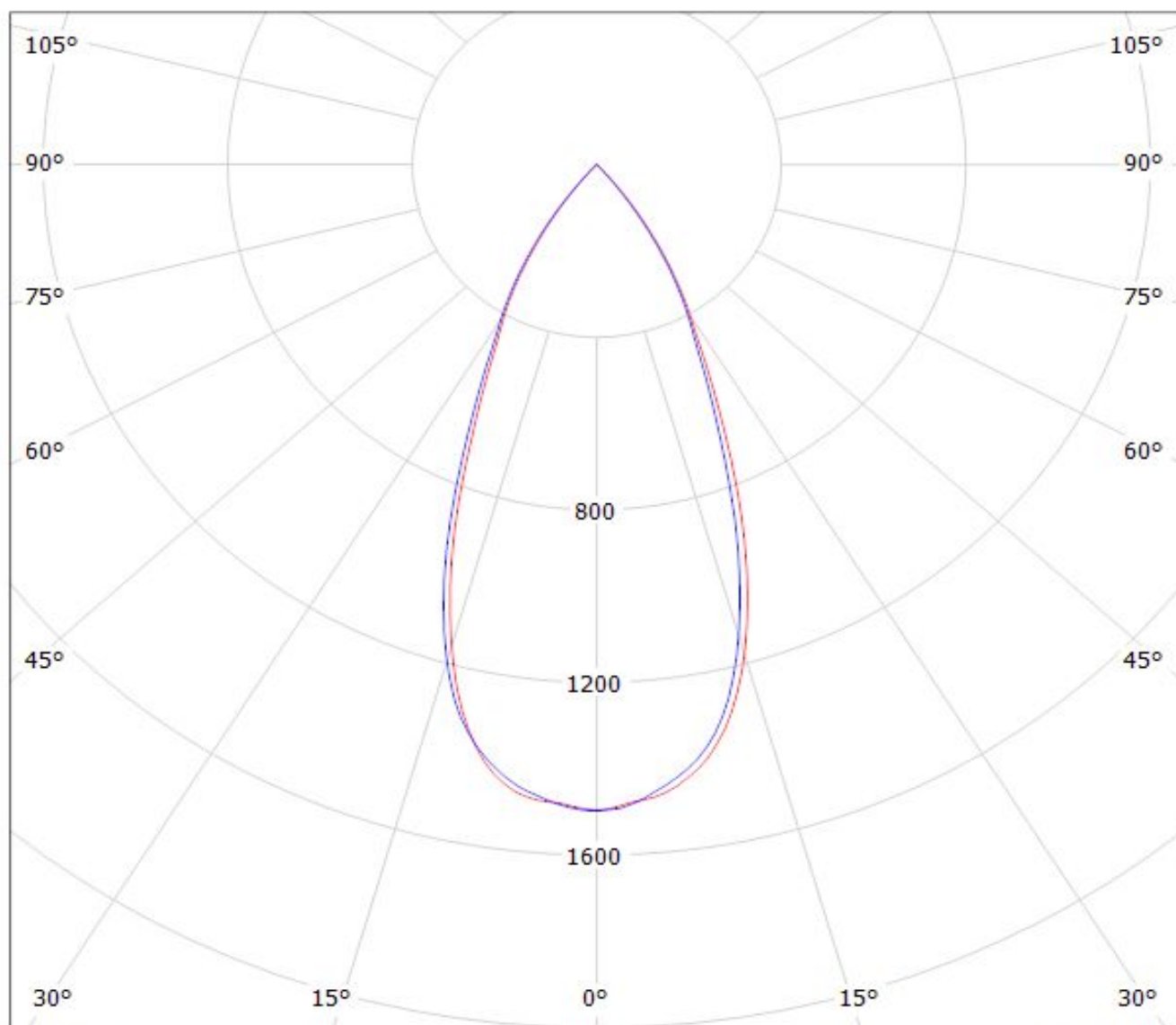
Luminaire: LEDiL Oy FCN13927_BARBARA-W-PF-VERO13/18_(SLE-G5_LES-11)
Lamps: 1 x Tridonic_SLE-G5_LES-11_1142.55lm@250mA_P=8.4070W_I=0.250A



Luminaire: LEDiL Oy FCN13927_BARBARA-W-PF-VERO13/18
Lamps: 1 x VERO13_1029@250mA_P=7.54246W_I=249.8mA



Luminaire: LEDiL Oy FCN13927 BARBARA-W-PF-VERO1318
Lamps: 1 x VERO18_878.76lm@250mA_P=6.73231W_I=249.9mA

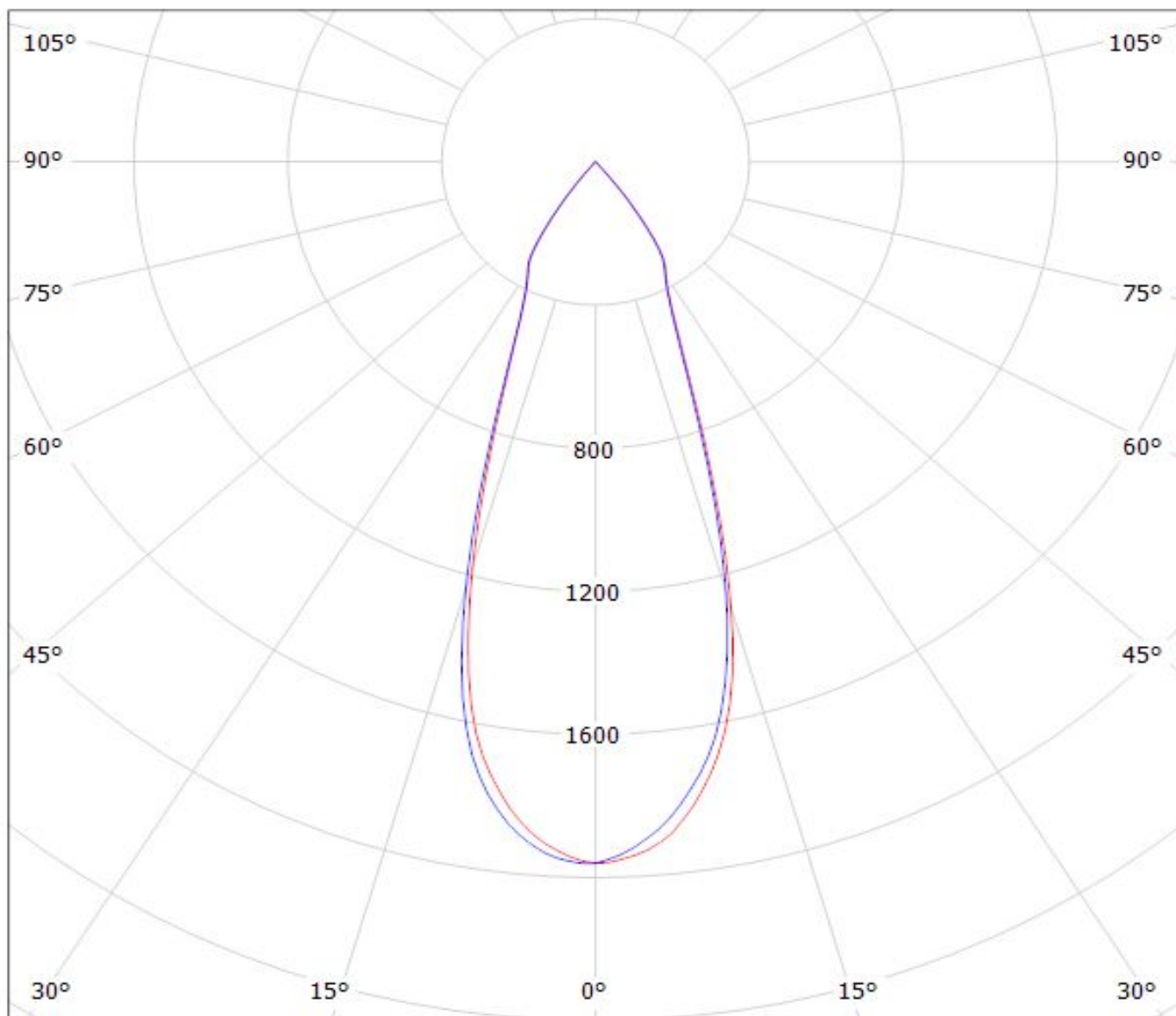


cd/klm

$\eta = 92\%$

— C0 - C180 — C90 - C270

Luminaire: LEDiL Oy FCN13927_BARBARA-W-PF-VERO13/18_(XENIO_13MM)
Lamps: 1 x XENIO_13MM_2074.66lm@?mA_P=23W_I=?A



cd/klm

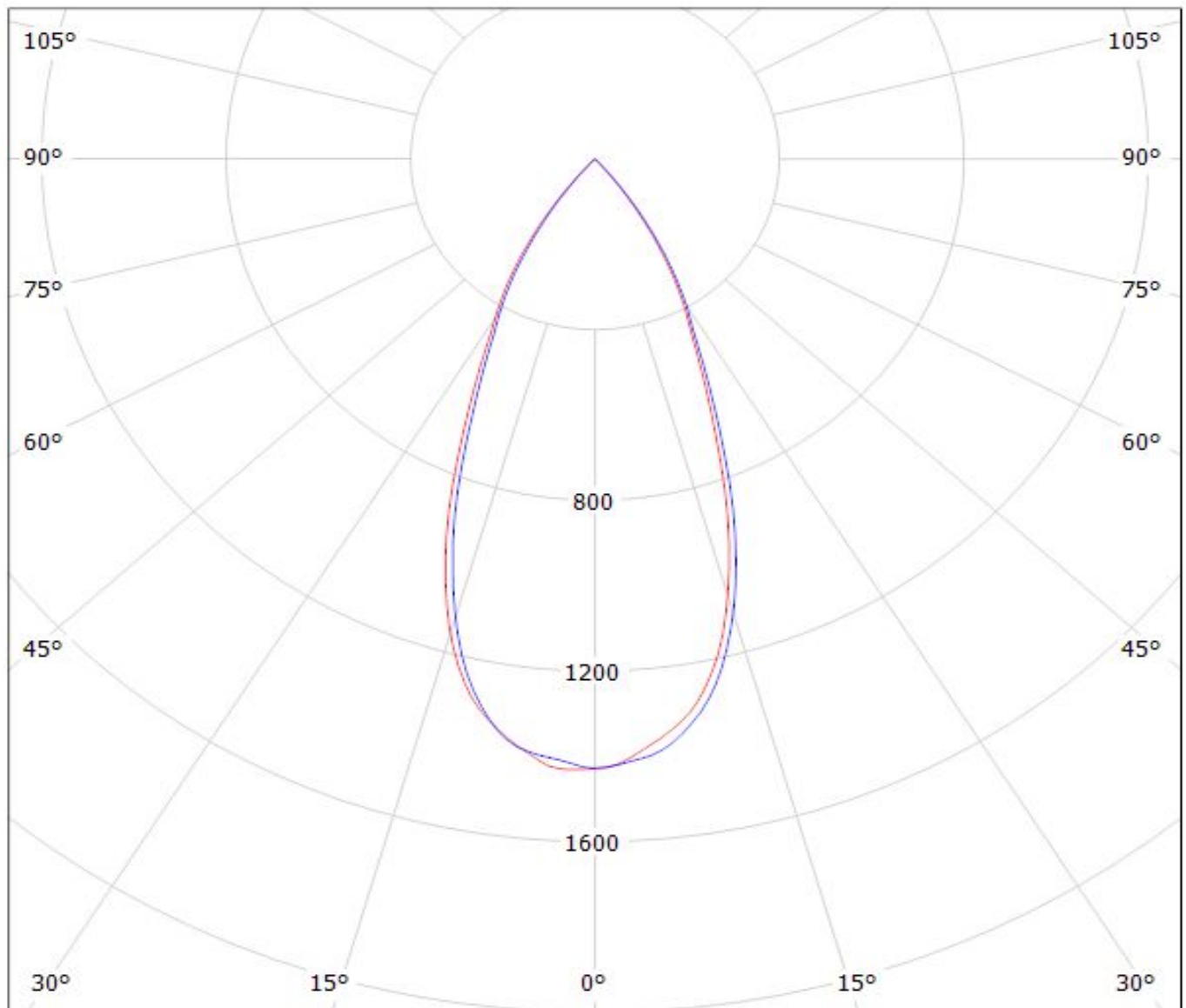
— C0 - C180

— C90 - C270

$\eta = 91\%$

Luminaire: LEDiL Oy FCN13927_BARBARA-W-PF-VERO1318_(Xenio_18mm)

Lamps: 1 x Xenio_18mm_3761.62lm@?mA_P=43W_I=?A



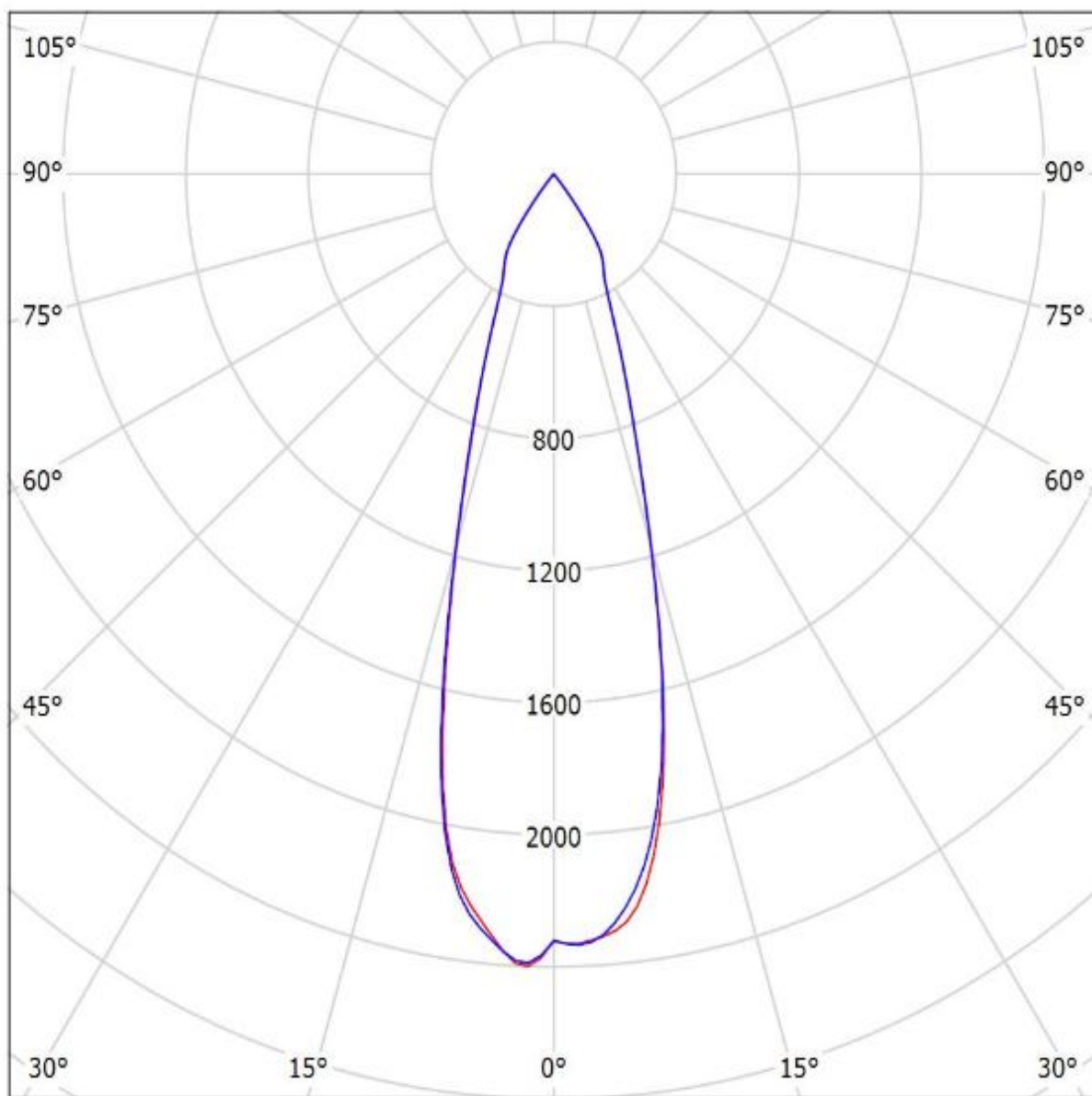
cd/klm

— C0 - C180

— C90 - C270

$\eta = 89\%$

Luminaire: Ledil Oy FCN13927_BARBARA-W-PF-VERO13-18+_B+W_434_TypL1_BRIDGELUX_V10_Gen7_SIMULATED
Lamps: 1 x BRIDGELUX V10 Gen7



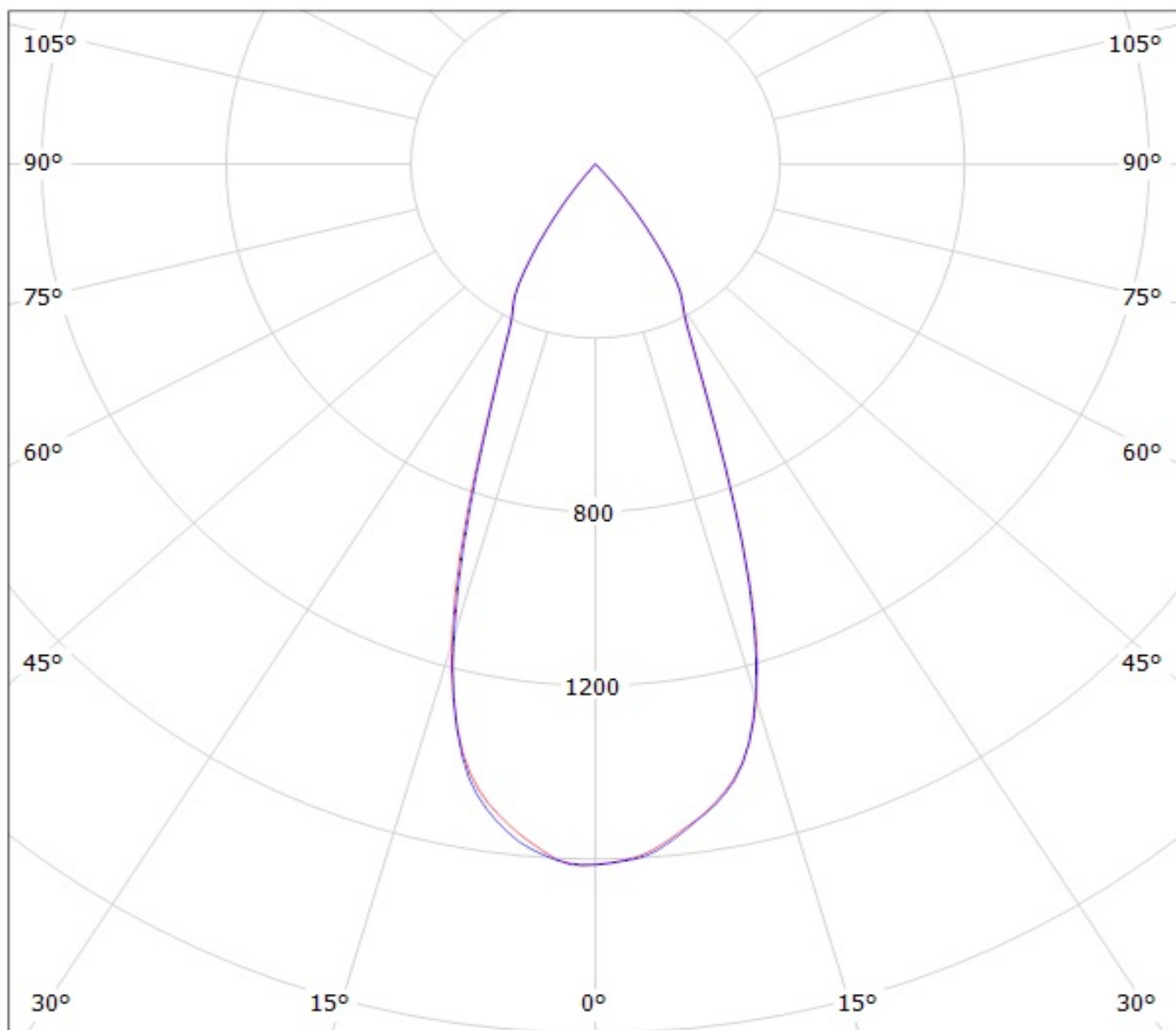
cd/klm

— C0 - C180 — C90 - C270

$\eta = 90\%$

Luminaire: Ledil FCN13927_BARBARA-W-PF-VERO13-18_(CLU034)_(433_Typ_L1)

Lamps: 1 x Citizen_CLU034_(CLU034-1205B8-303M1A2)_1180.79lm@250mA_P=8.50075W_I=0.25A



cd/klm

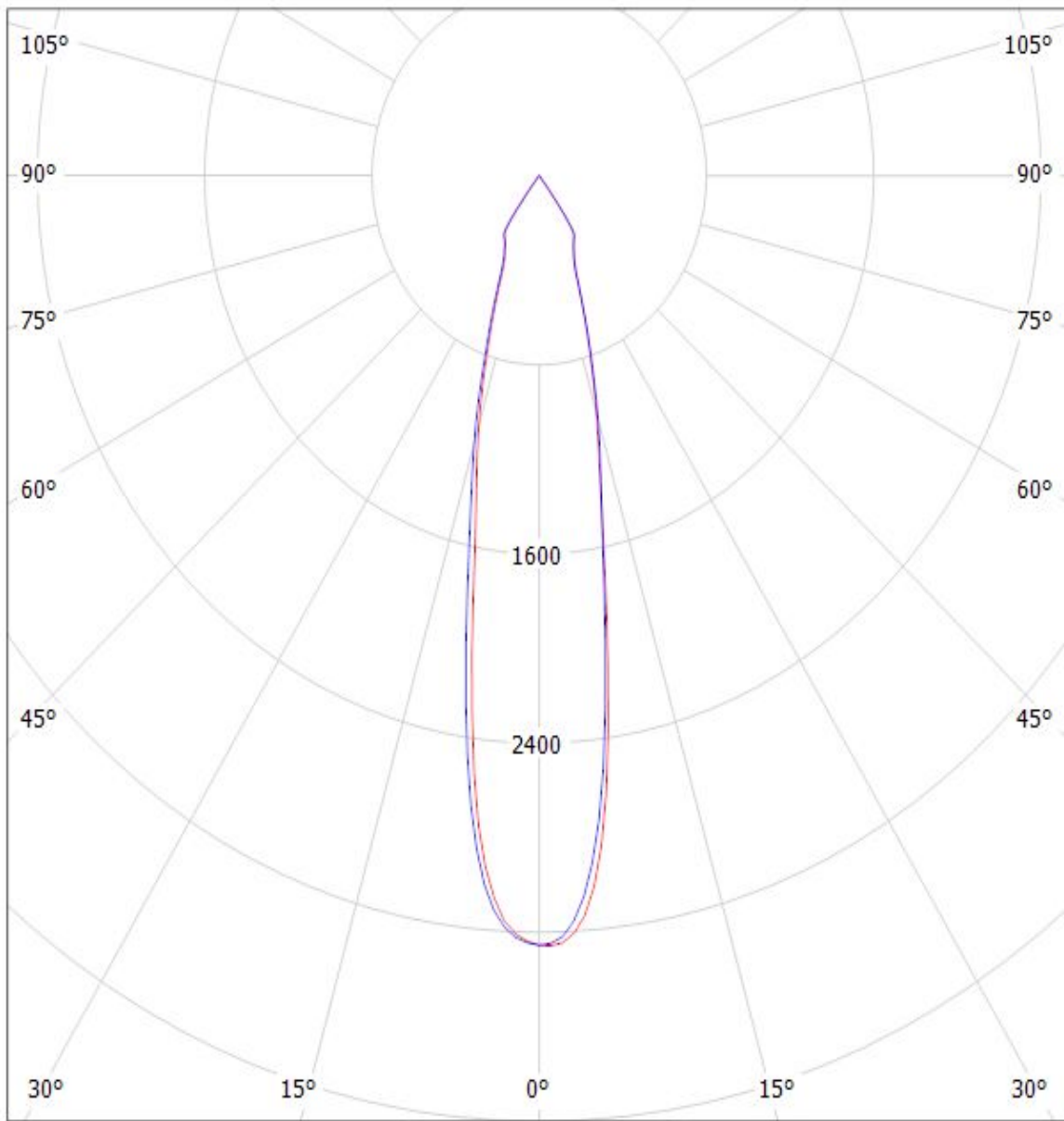
— C0 - C180

— C90 - C270

$\eta = 87\%$

Luminaire: LEDiL Oy FCN13927_BARBARA-W-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

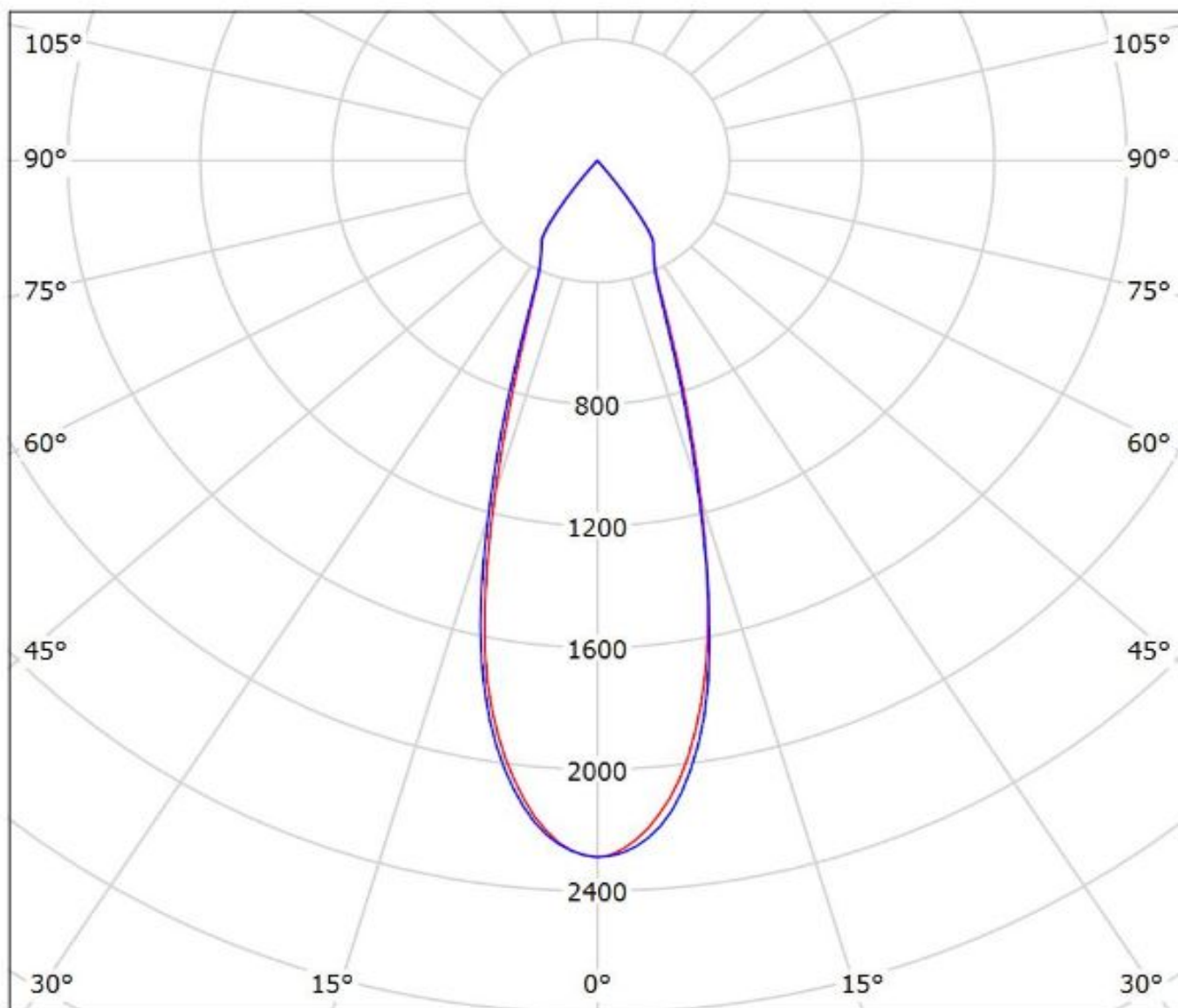


cd/klm

$\eta = 89\%$

— C0 - C180 — C90 - C270

Luminaire: Ledil FCN13927_BARBARA-W-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



cd/klm

— C0 - C180 — C90 - C270

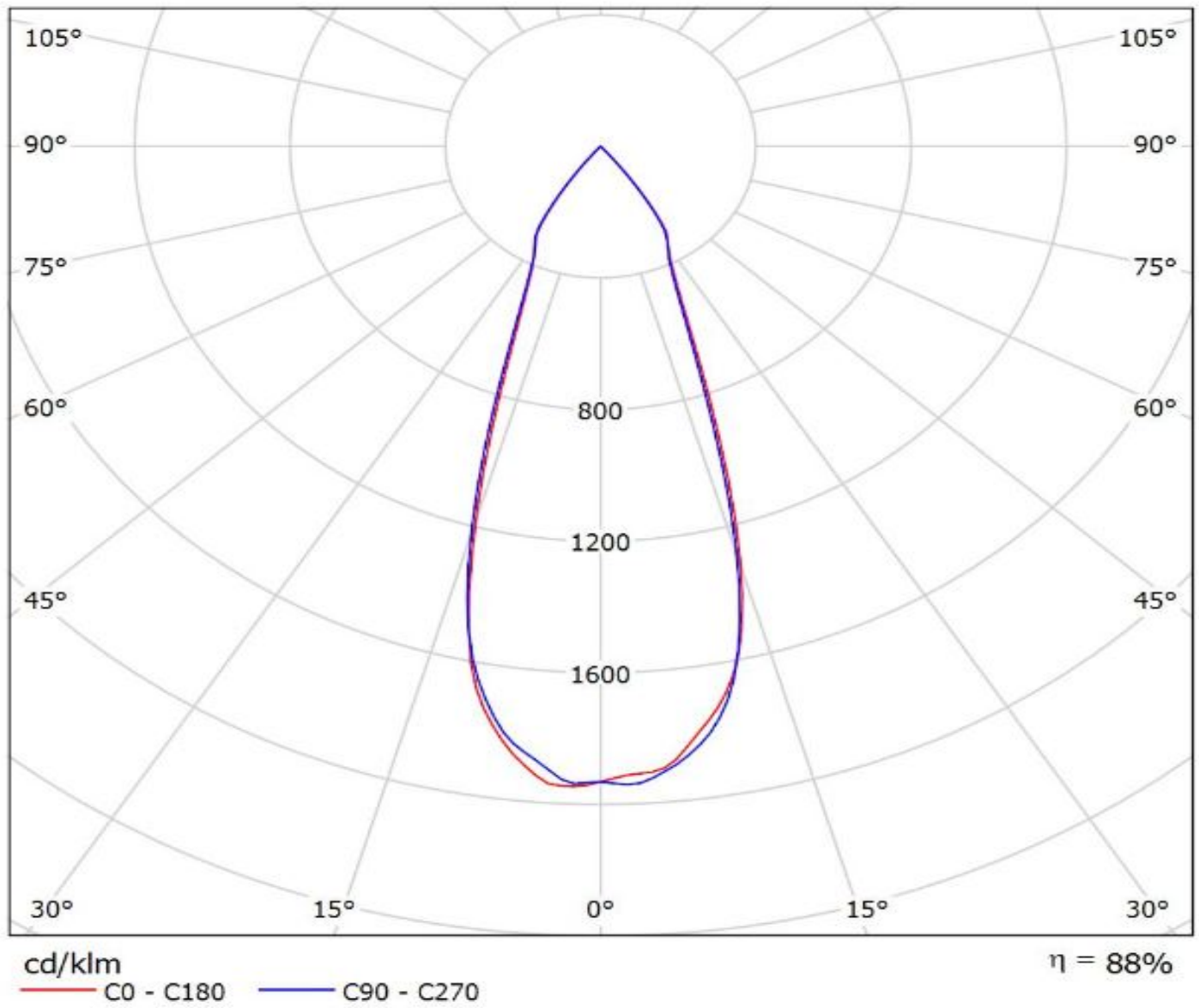
$\eta = 88\%$

Ledil FCN13927_BARBARA-W-PF-VERO13-18_(CXA1850) / LDC (Polar)

Luminaire: Ledil FCN13927_BARBARA-W-PF-VERO13-18_(CXA1850)

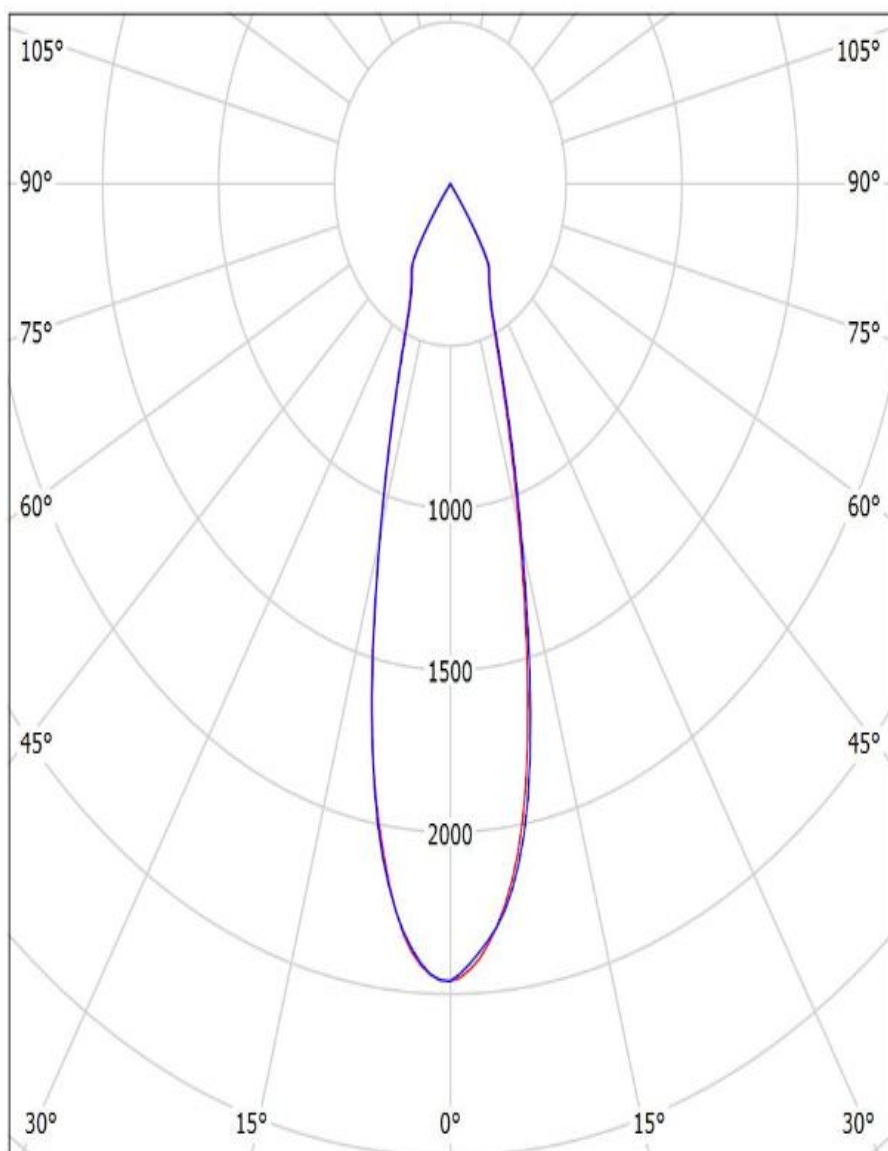
Lamps: 1 x CREE_CXA1850_(CXA1850-30F-T4-N0Y-00001)

_847.836lm@250mA_CCT=3000K_P=8.27W_I=0.25A



Luminaire: Ledil FCN13927_BARBARA-W-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

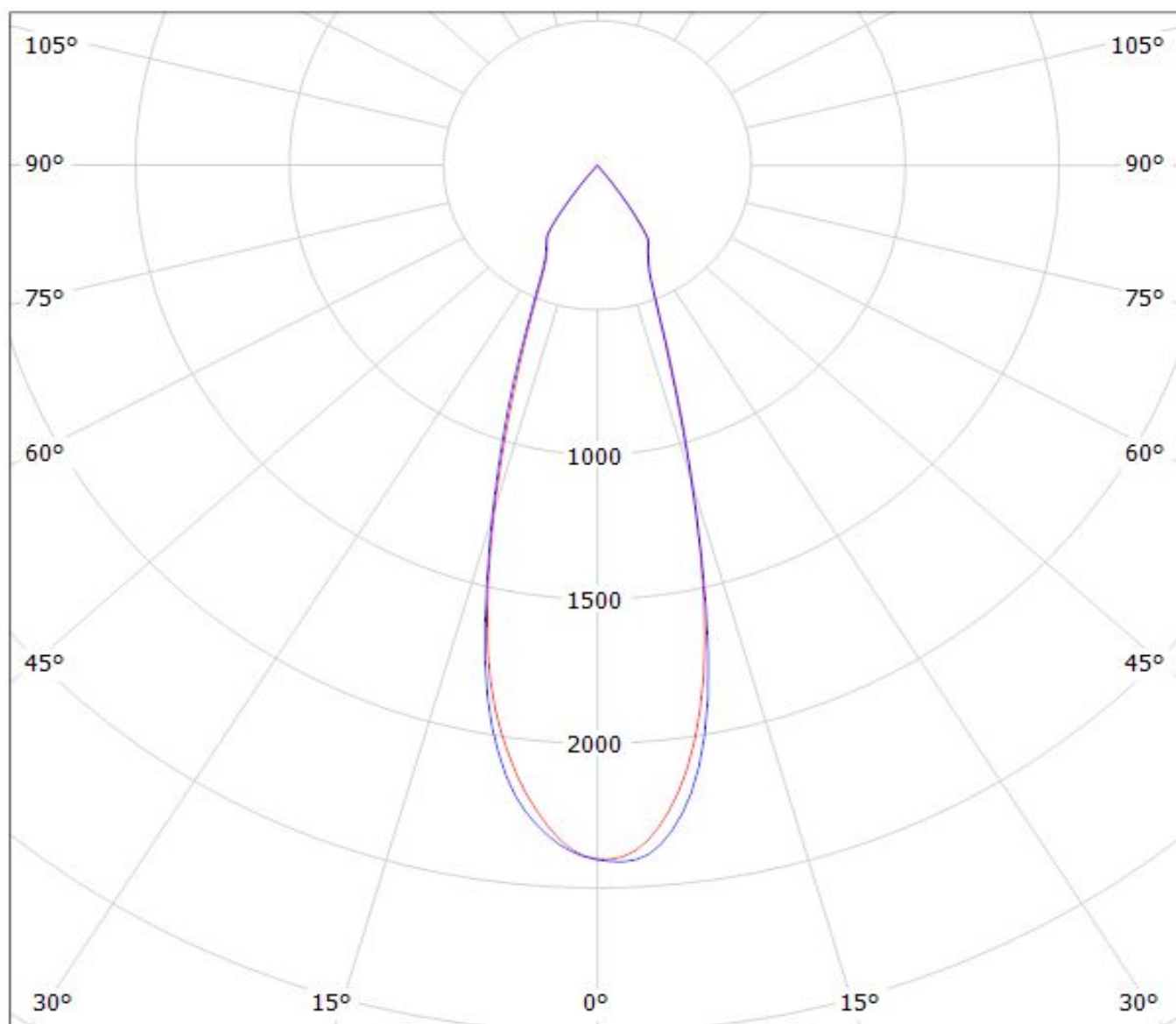


cd/klm

— C0 - C180 — C90 - C270

$\eta = 88\%$

Luminaire: LEDiL Oy FCN13927_BARBARA-W-PF-VERO13/18_(Luxeon_CoB_1203)_(438_Typ_L1)
Lamps: 1 x Luxeon_CoB_1203_(438_Typ_L1)_C13709_PF-SOCKET-VERO13-18_994.226lm@250mA_P=8.69429W_ι=0.2498A



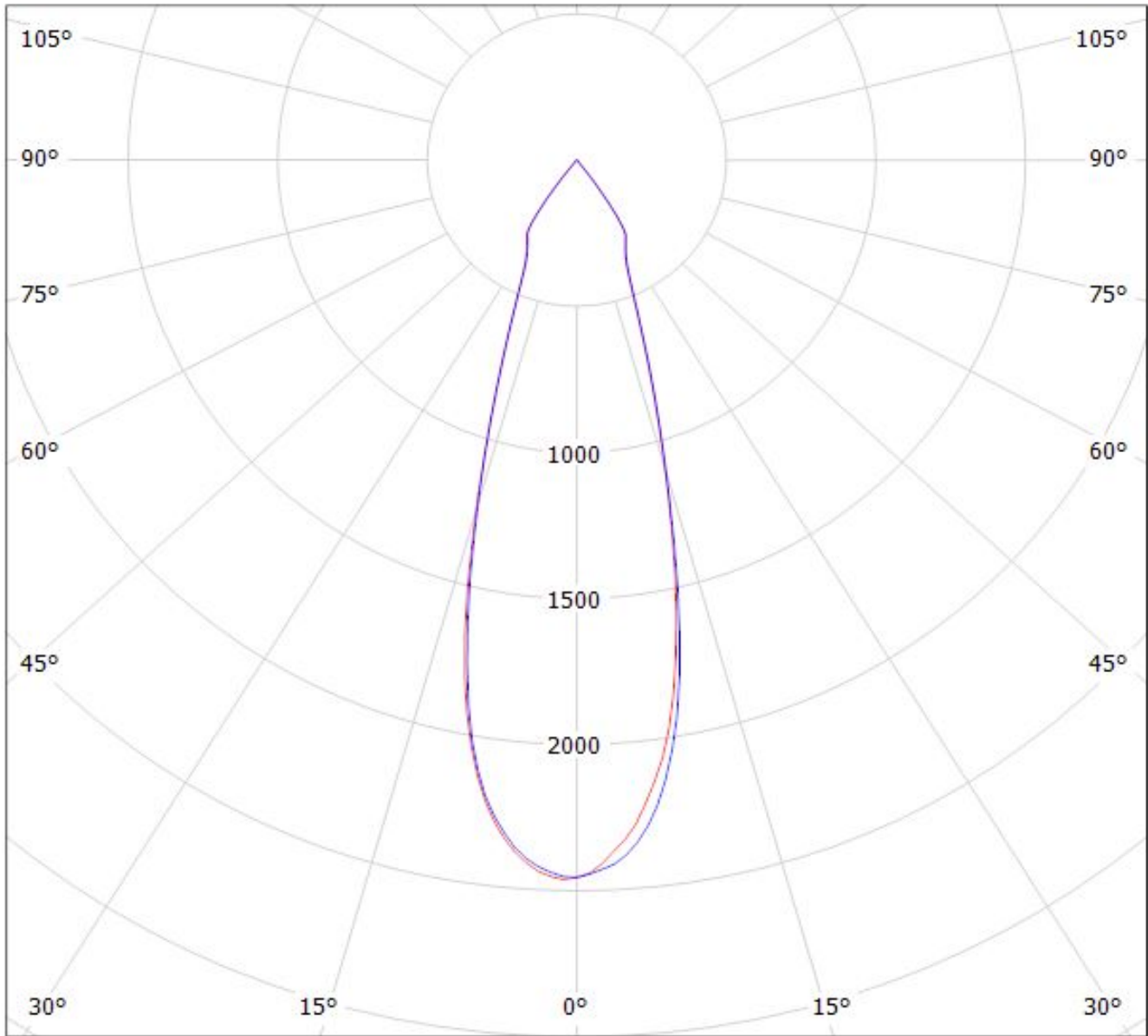
cd/klm

— C0 - C180 — C90 - C270

$\eta = 90\%$

Luminaire: LEDiL Oy FCN13927_BARBARA-W-PF-VERO13-18_(NFCLL036B)

Lamps: 1 x Nichia NFCLL036B (sm403J1300R8000)_542.652lm@100mA_CCT=4000K_P=3.34084W_I=0.100A

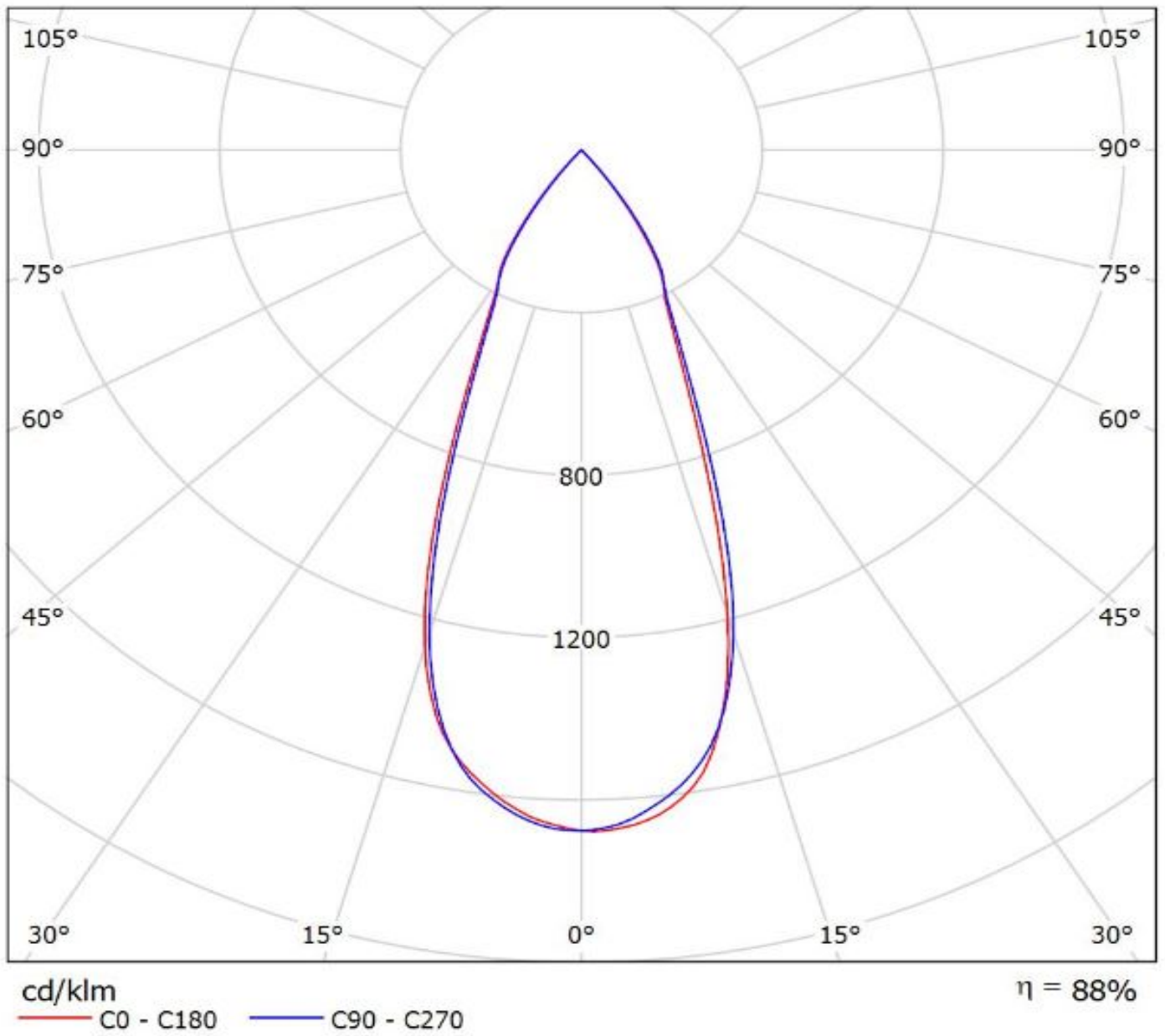


cd/klm

— C0 - C180 — C90 - C270

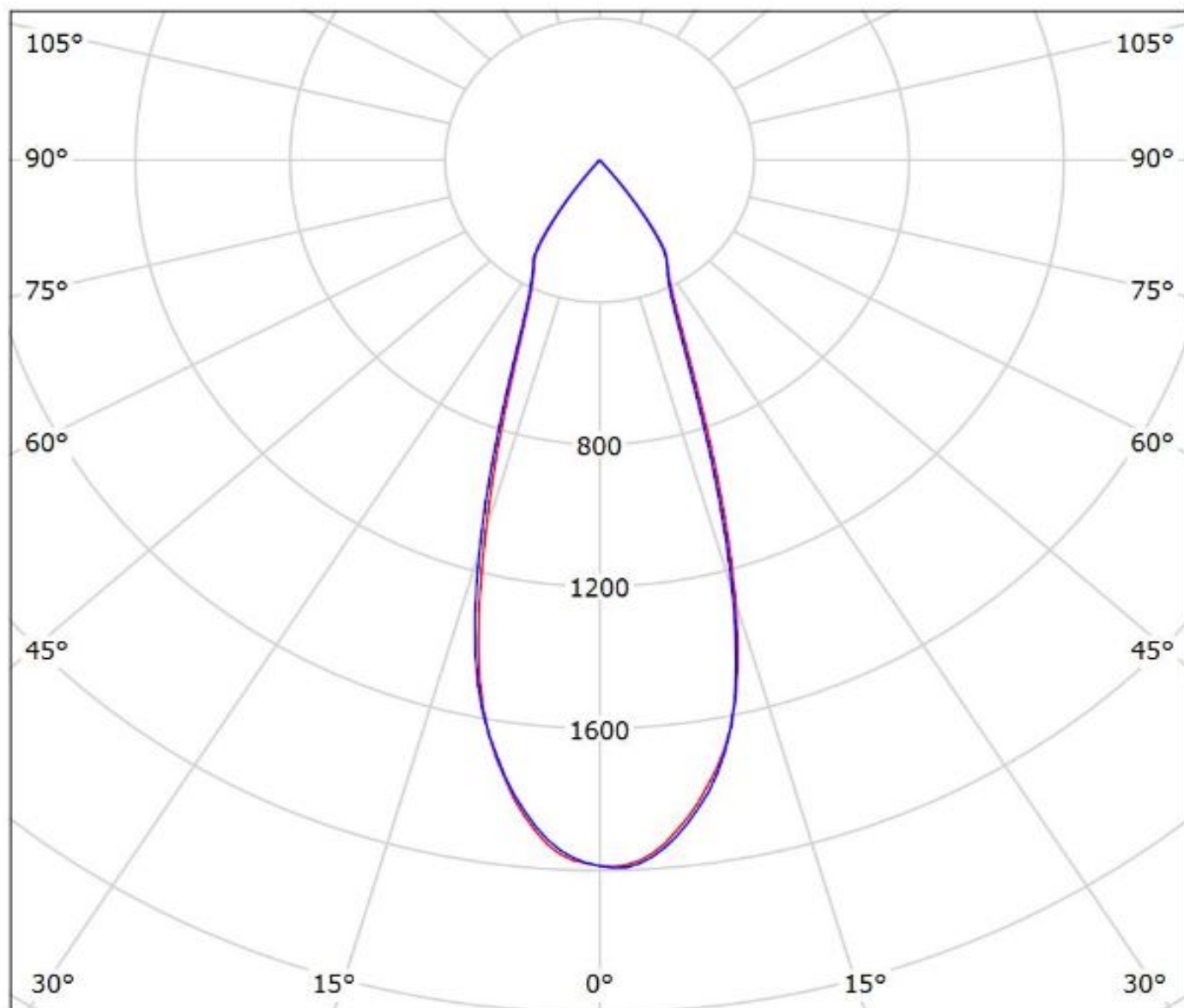
$\eta = 91\%$

Luminaire: Ledil FCN13927_BARBARA-W-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 FCN13927_BARBARA-W-PF-VERO13/18_(NFCLL060B)

Lamps: 1 x Nichia_NFCLL060B_(438_TYP_L1)_1365.88lm@250mA_P=8.375W_I=0.25A



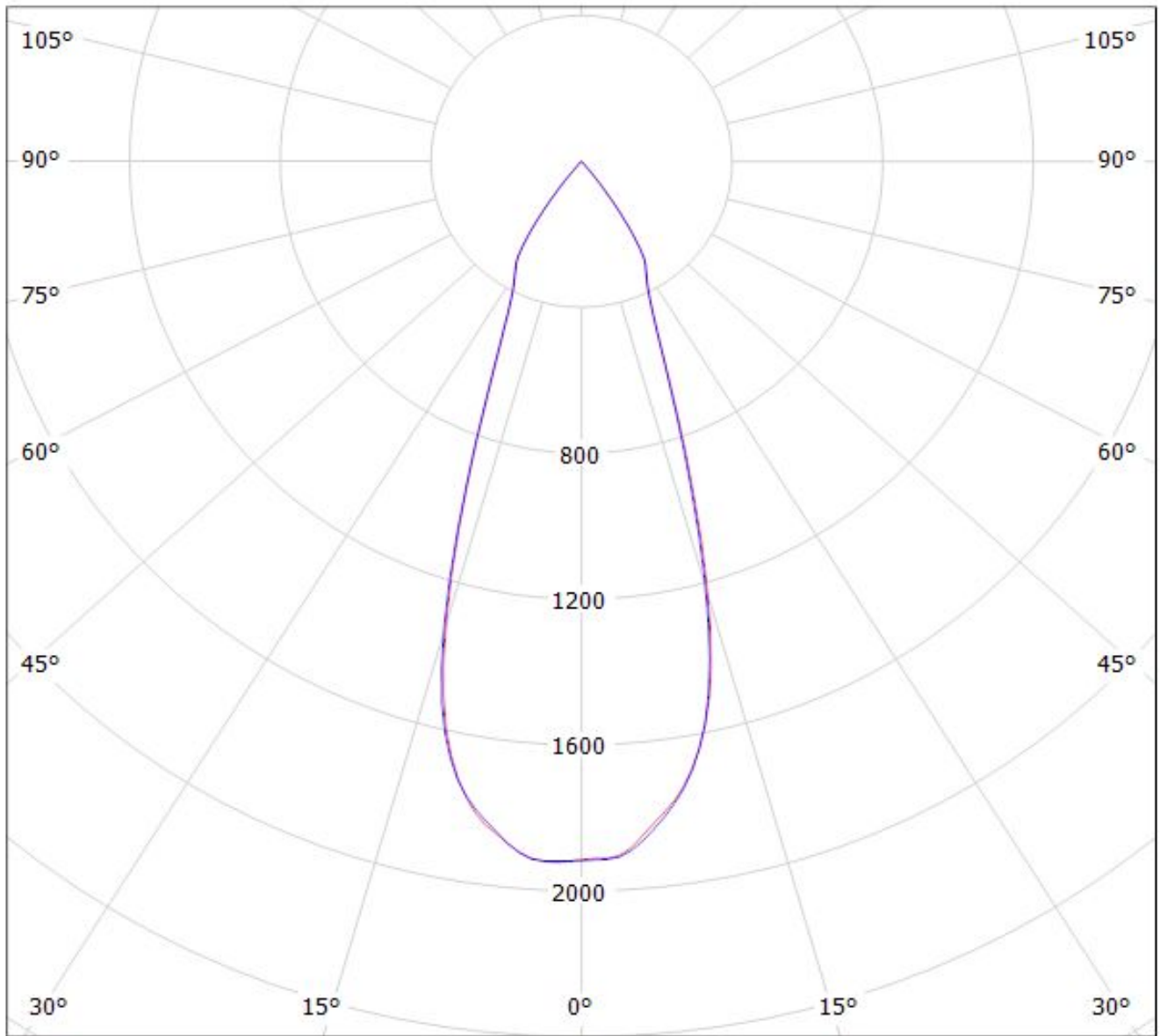
cd/klm

— C0 - C180 — C90 - C270

$\eta = 88\%$

Luminaire: Ledil FCN13927_BARBARA-W-PF-VERO13-18_(Soleriq_S13)

Lamps: 1 x Osram_Soleriq_S13_(GW_KAGHB1.EM)_931.029lm@250mA_P=7.44679W_I=250mA



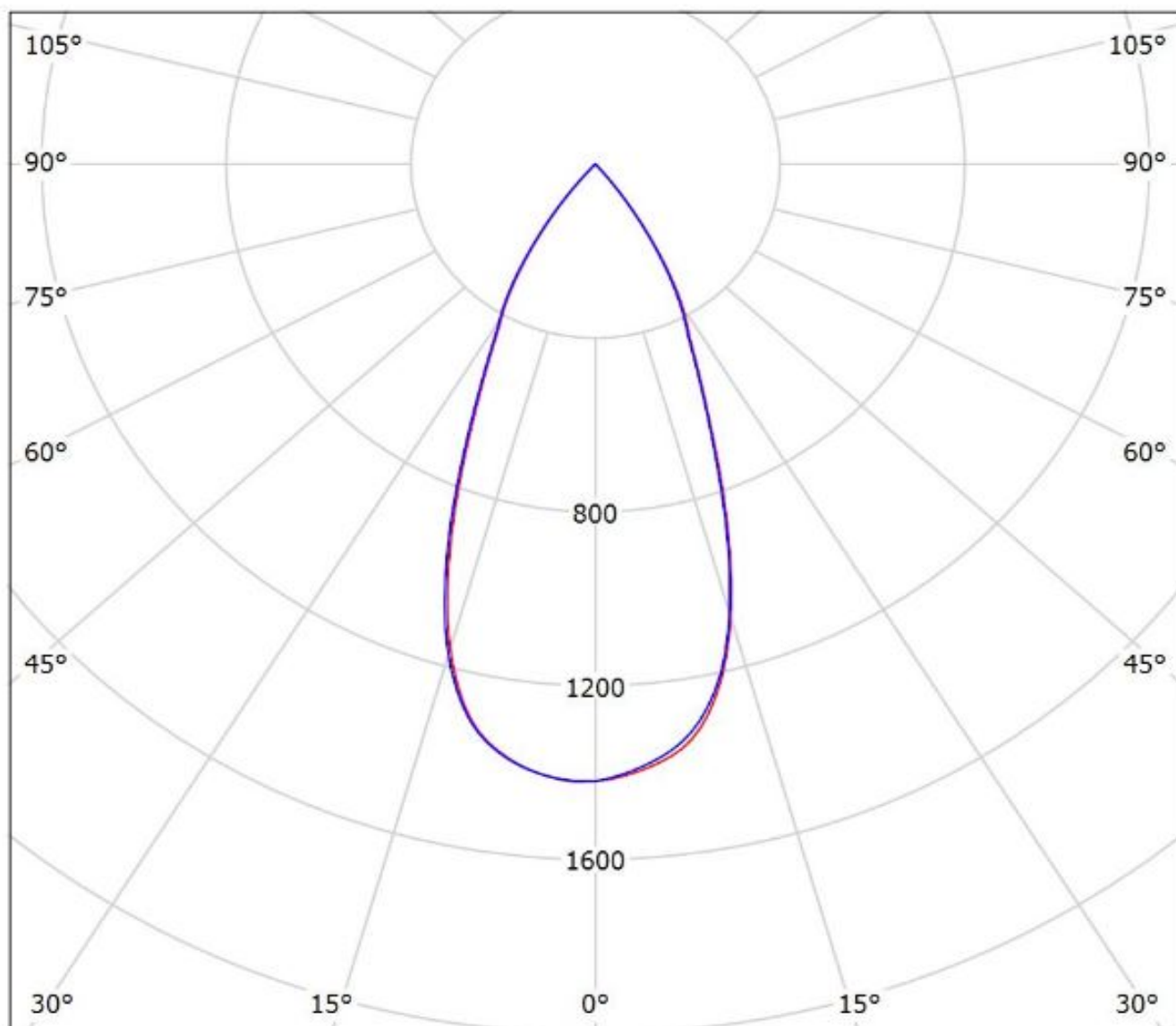
cd/klm

— C0 - C180

— C90 - C270

$\eta = 90\%$

Luminaire: Ledil FCN13927_BARBARA-W-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

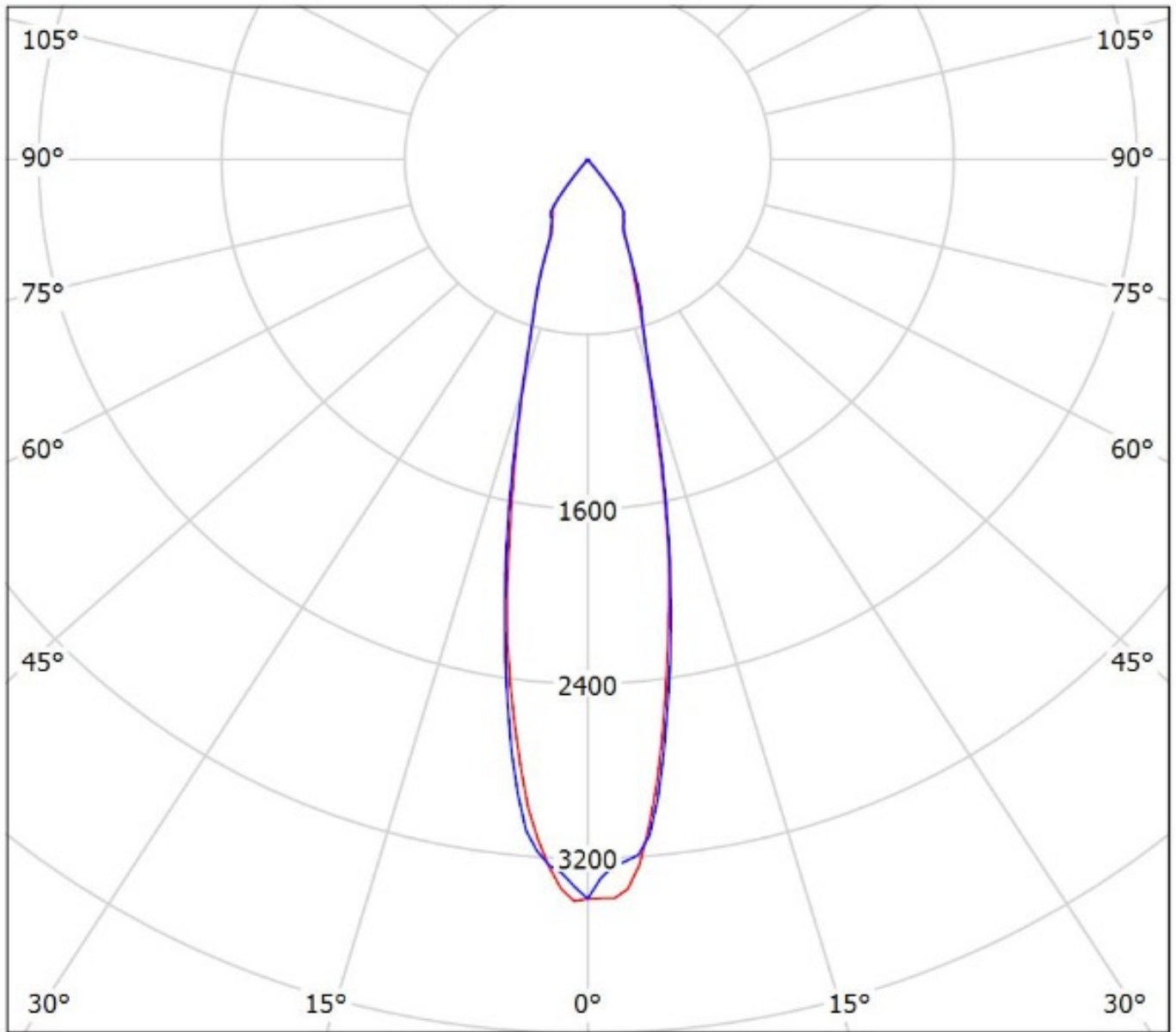


cd/klm

— C0 - C180 — C90 - C270

$\eta = 87\%$

Luminaire: Ledil Oy FCN13927_BARBARA-W-PF-VERO13-18_(LC010C)_(B+W_479_Typ_L1)_SIMULATED
Lamps: 1 x Samsung LC010C + Bender & Wirth 479 Type L1

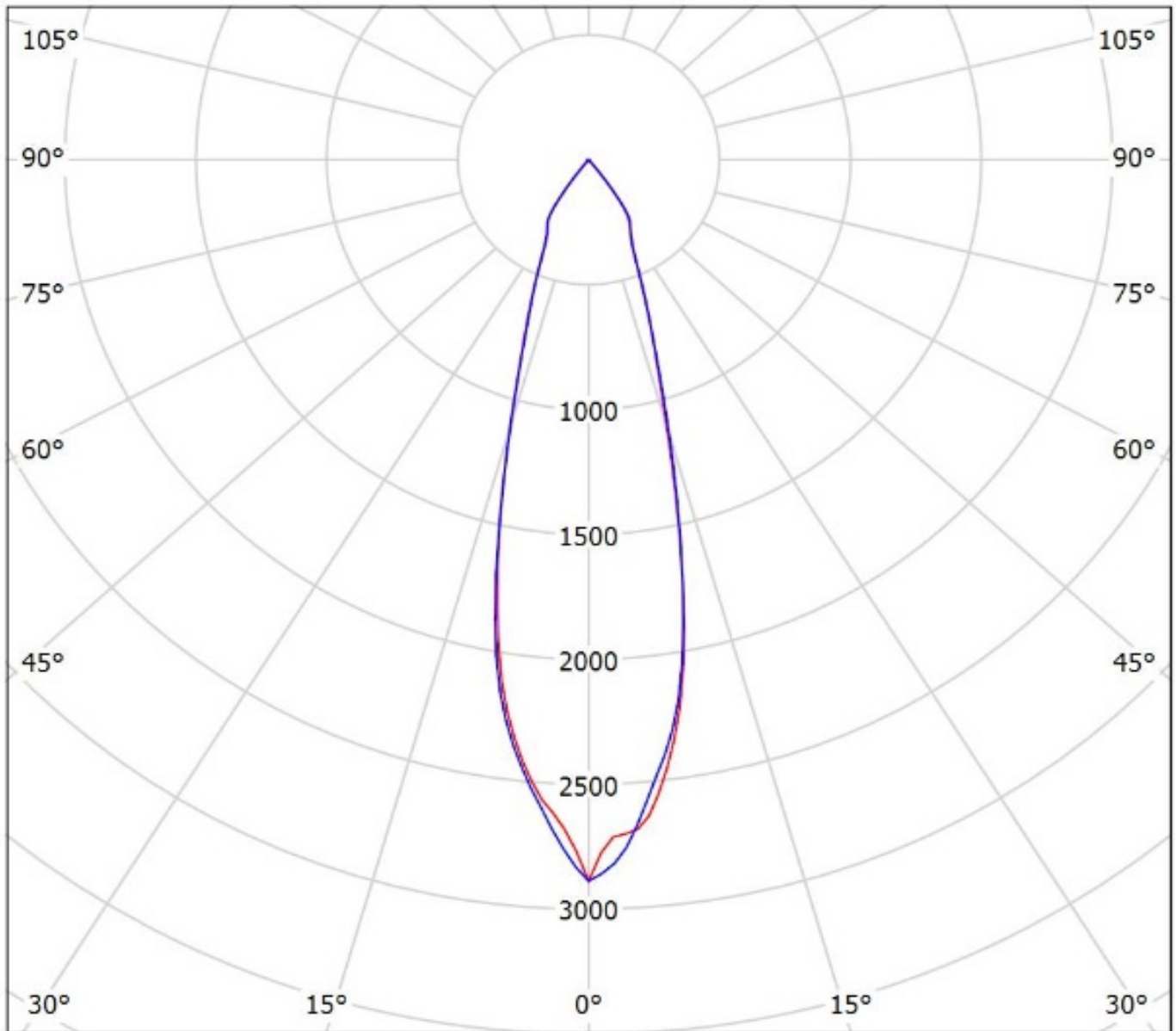


cd/klm

— C0 - C180 — C90 - C270

$\eta = 90\%$

Luminaire: Ledil Oy FCN13927_BARBARA-W-PF-VERO13-18_(LC020C)_(B+W_479_Typ_L1)_SIMULATED
Lamps: 1 x Samsung LC020C + Bender & Wirth 479 Type L1

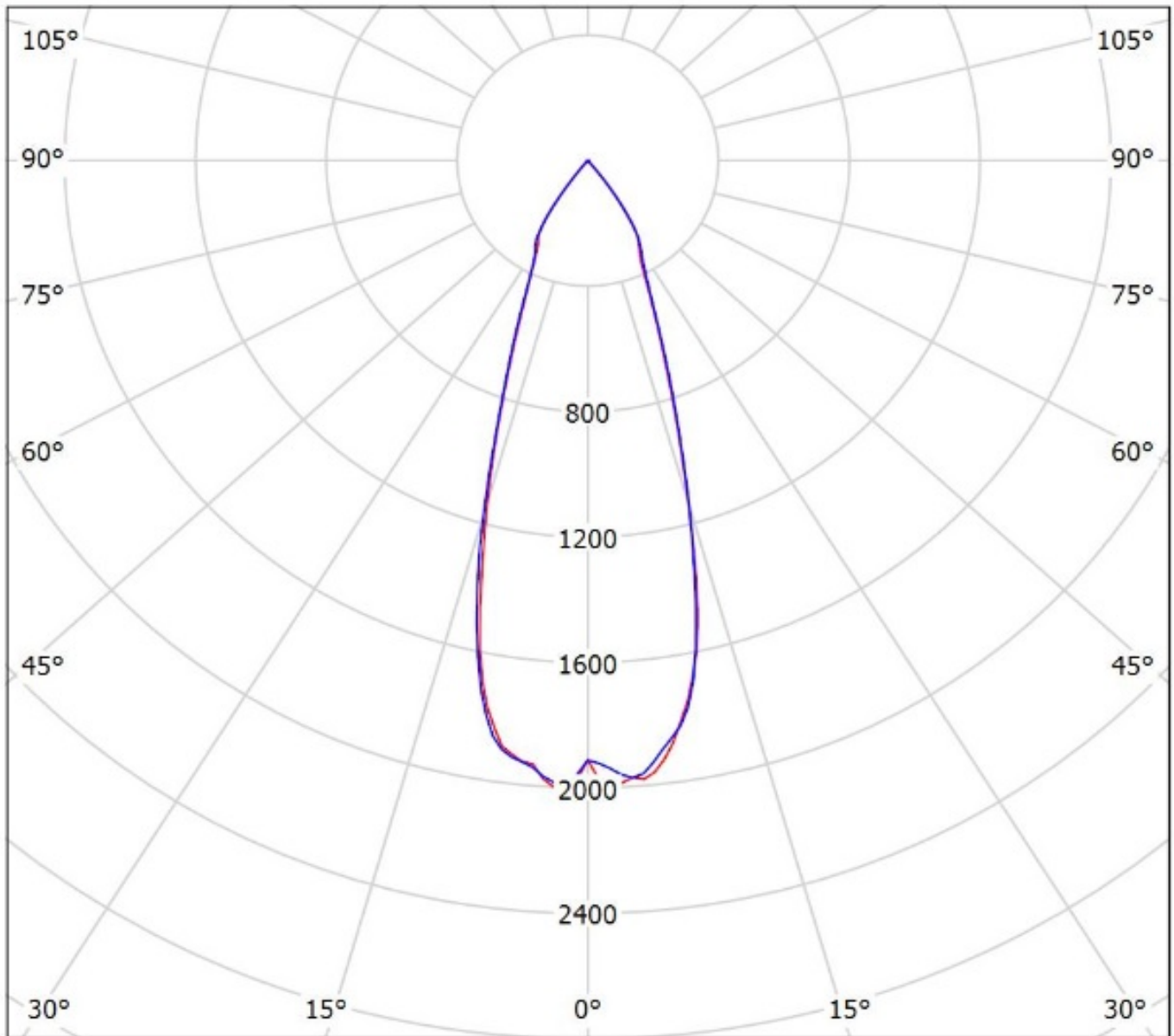


cd/klm

— C0 - C180 — C90 - C270

$\eta = 89\%$

Luminaire: Ledil Oy FCN13927_BARBARA-W-PF-VERO13-18_(LC040C)_(B+W_480_Typ_L1)_SIMULATED
Lamps: 1 x Samsung LC040C + Bender & Wirth 480 Type L1

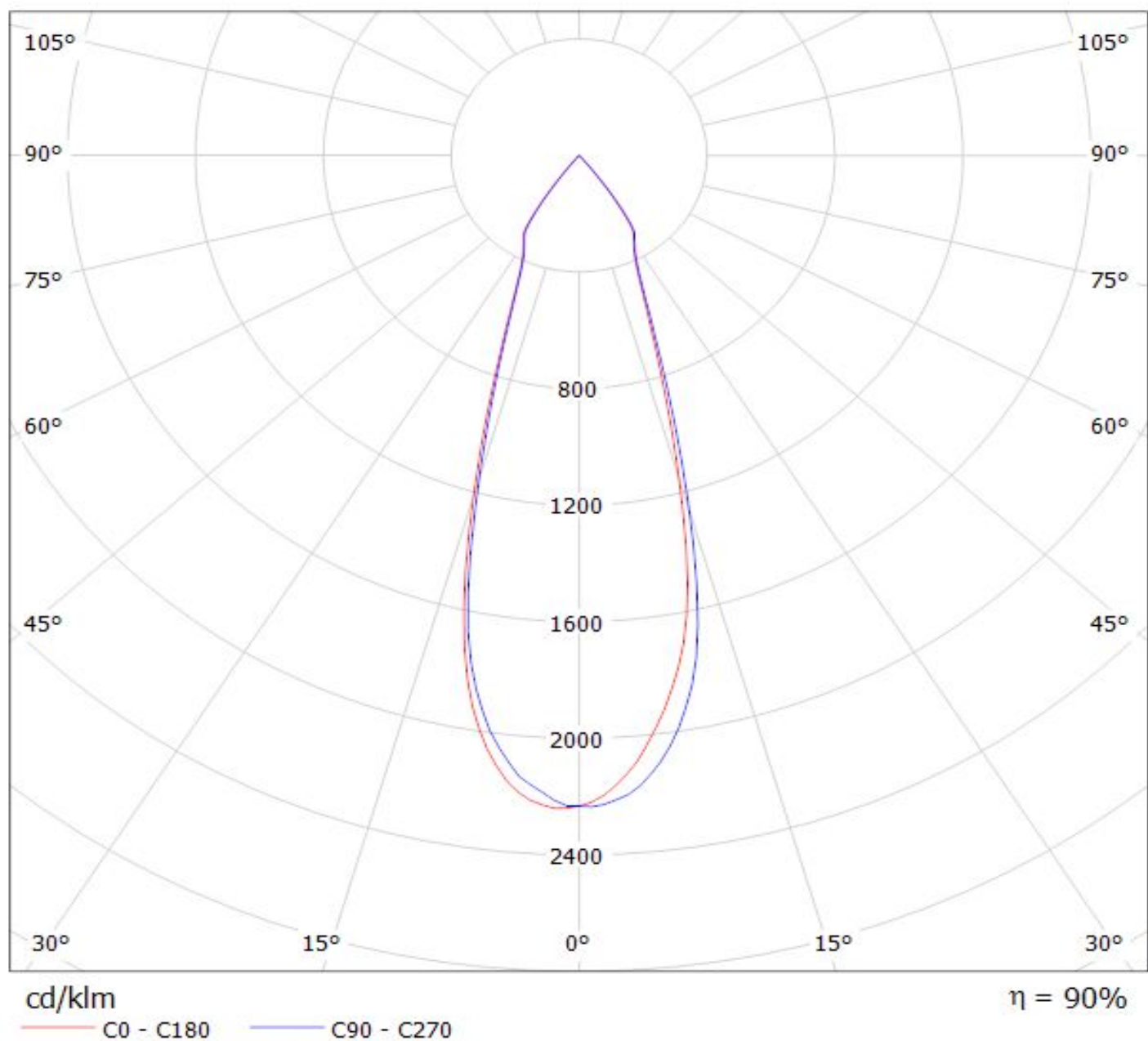


cd/klm

— C0 - C180 — C90 - C270

$\eta = 85\%$

Luminaire: LEDiL Oy FCN13927_BARBARA-W-PF-VERO13/18_(SLE-G5_LES-11)
Lamps: 1 x Tridonic_SLE-G5_LES-11_1142.55lm@250mA_P=8.4070W_I=0.250A



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.