

DETAILS

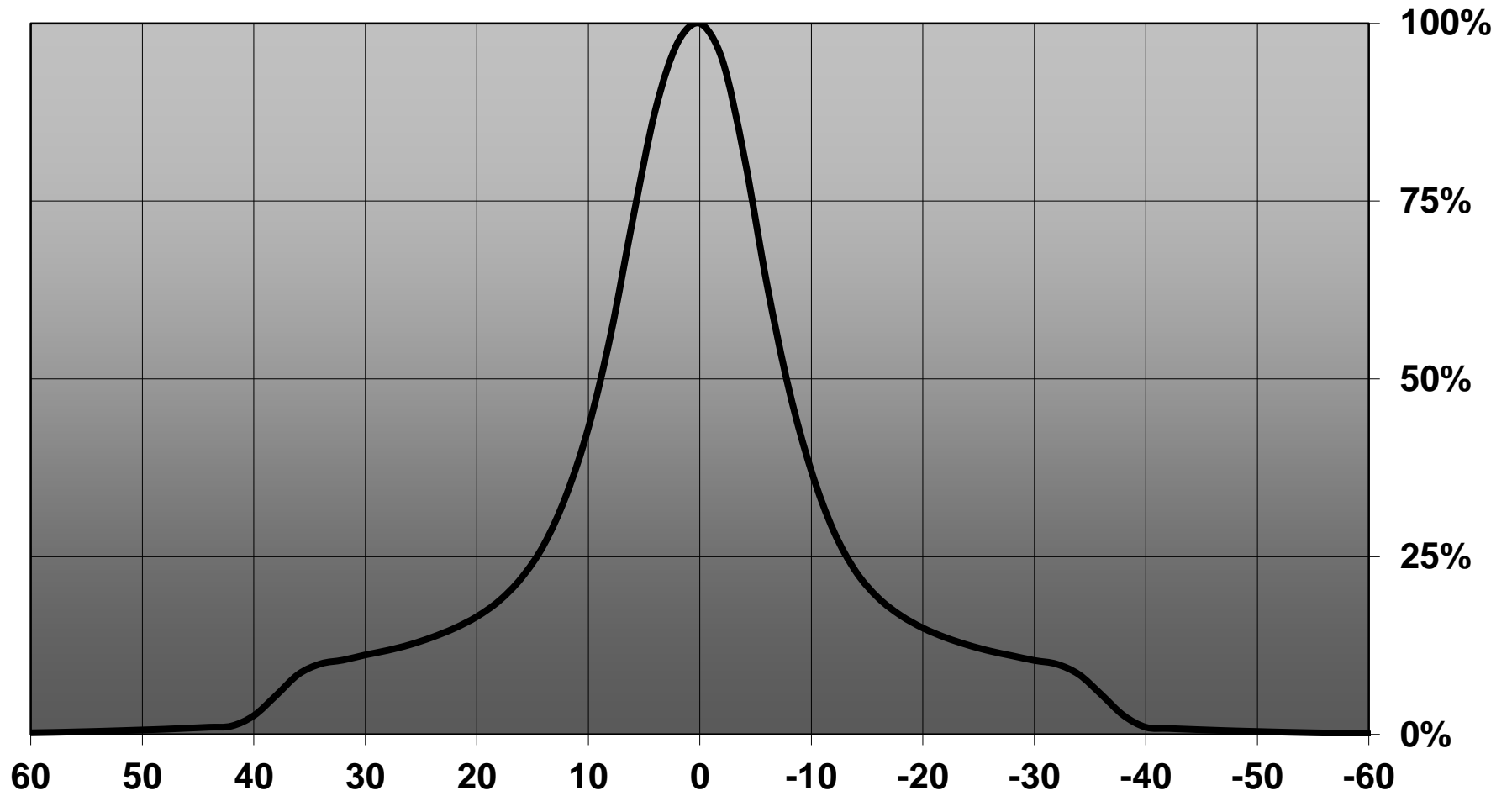
Product Number	FCN13706_ANGELA-M
Family	ANGELA
Type	RefPack
Color	metal
Diameter	119,5 mm
Height	79,31 mm
Style	round
Optic Material	
Holder Material	
Fastening	
Status	production ready
ROHS Compliant	Yes
Date Updated	3/11/2016



OPTICAL PROPERTIES

LED	Viewing Angle	Light Beam	Efficiency	cd/lm	Connector
VERO18	19 deg	Medium	85 %	3.000	LEDiL: LEDiL
VERO13	16 deg	Medium	87 %	3.600	LEDiL: LEDiL
V15 Gen6	17 deg	Medium	92 %	3.900	Bender Wirth: 456 Typ L2
V10 Gen7	sim: 15	Medium	sim: 90 %	sim: 7.030	Bender Wirth: 434 Typ L1
CLU720/721	14 deg	Medium	83 %	4.000	Bender Wirth: 433 Typ L1
CLL03x/CLU03x	17 deg	Medium	88 %	3.400	Bender Wirth: 433 Typ L1
CLU700/701	12 deg	Medium	83 %	5.200	Bender Wirth: 434 Typ L1
CLL02x/CLU02x (LES10)	14 deg	Medium	84 %	4.300	Bender Wirth: 434 Typ L1
CXA/B 1816 & CXA/B 1820 & CXA 1850	15 deg	Medium	83 %	3.800	Bender Wirth: 437 Typ L1
CXA/B 15xx	13 deg	Medium	84 %	4.700	Bender Wirth: 441 Typ L1
LUXEON CoB 1202/1203	13 deg	Medium	84 %	4.500	Bender Wirth: 438 Typ L1
CXM-14	sim: 17	Medium	sim: 83 %	sim: 3.400	Bender Wirth: 433 Typ L1
CXM-9	sim: 14	Medium	sim: 84 %	sim: 4.300	Bender Wirth: 434 Typ L1
COB L-Type (LES 9)	13 deg	Medium	85 %	4.500	Bender Wirth: 438 Typ L1
COB J-Type	17 deg	Medium	83 %	3.500	Bender Wirth: 463 Typ L2
COB L-Type (LES 11)	15 deg	Medium	83 %	3.900	Bender Wirth: 438 Typ L1
Solériq P9	13 deg	Medium	88 %	4.200	Bender Wirth: 461 Typ L1
Solériq P13	16 deg	Medium	88 %	3.600	Bender Wirth: 437 Typ L1
Solériq S13	15 deg	Medium	83 %	3.800	Bender Wirth: 437 Typ L1
LC026B/LC040B	19 deg	Medium	83 %	3.000	Bender Wirth: 450 Typ L2
ZC12/18	sim: 17	Medium	sim: 83 %	sim: 3.400	Bender Wirth: 433 Typ L1
ZC4/6	sim: 14	Medium	sim: 84 %	sim: 4.300	Bender Wirth: 434 Typ L1
SLE G5 LES11	14 deg	Medium	84 %	4.400	Bender Wirth: 434 Typ L1

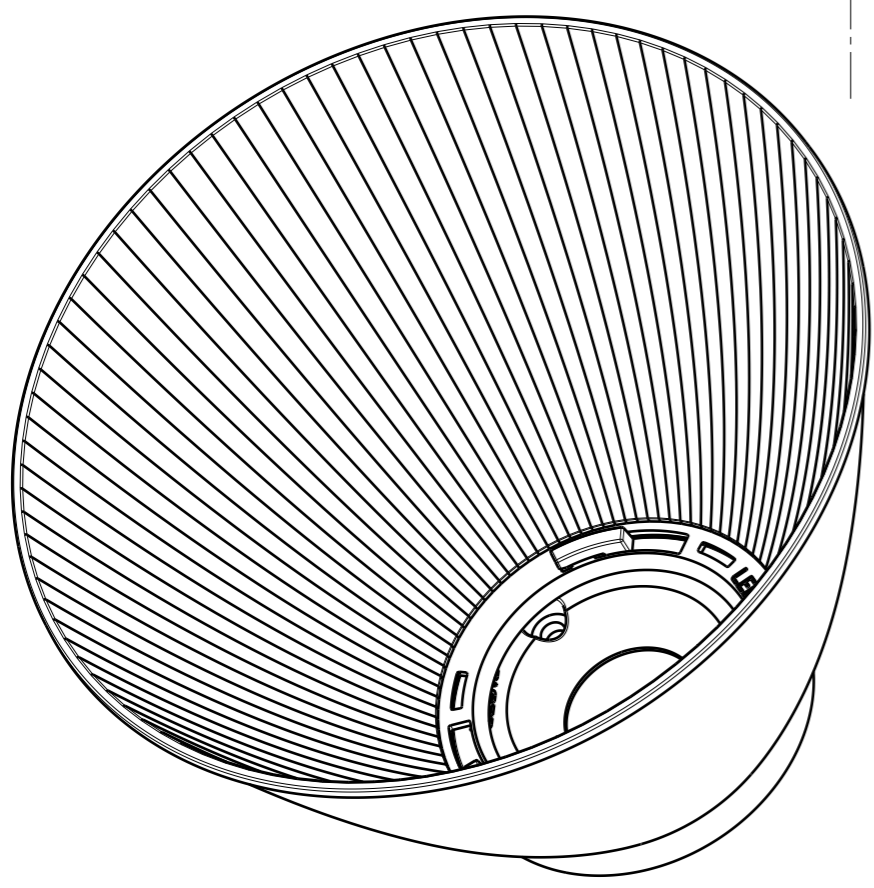
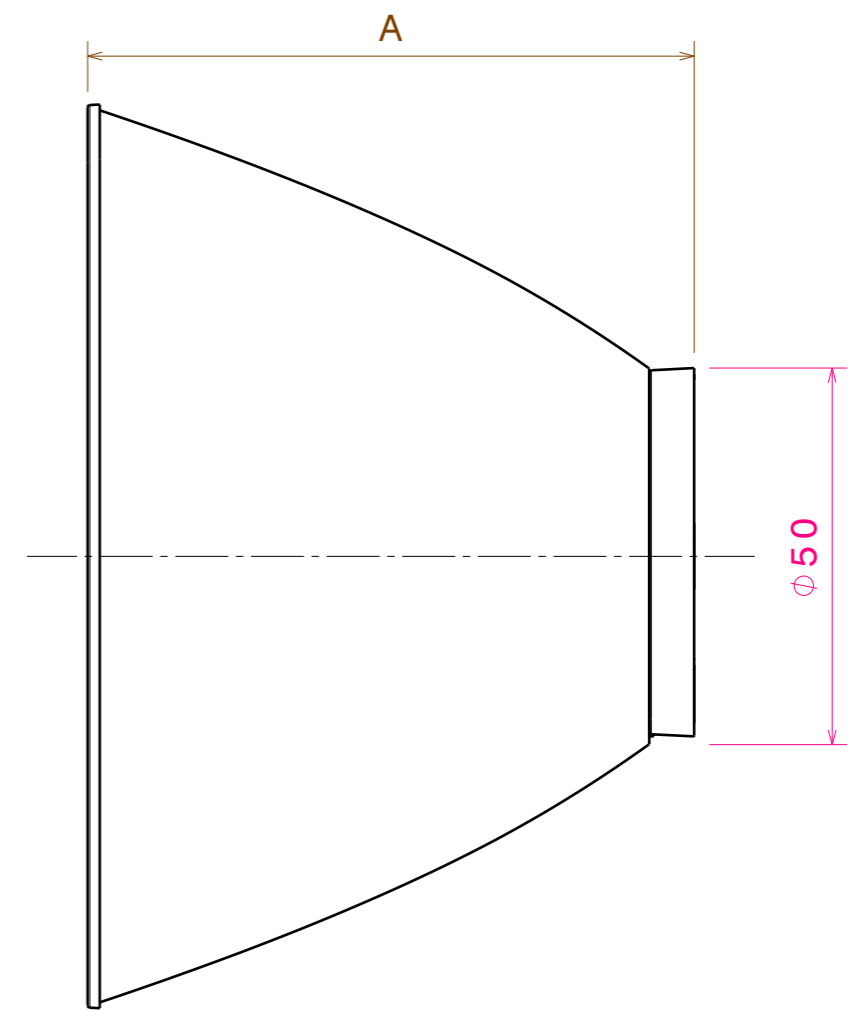
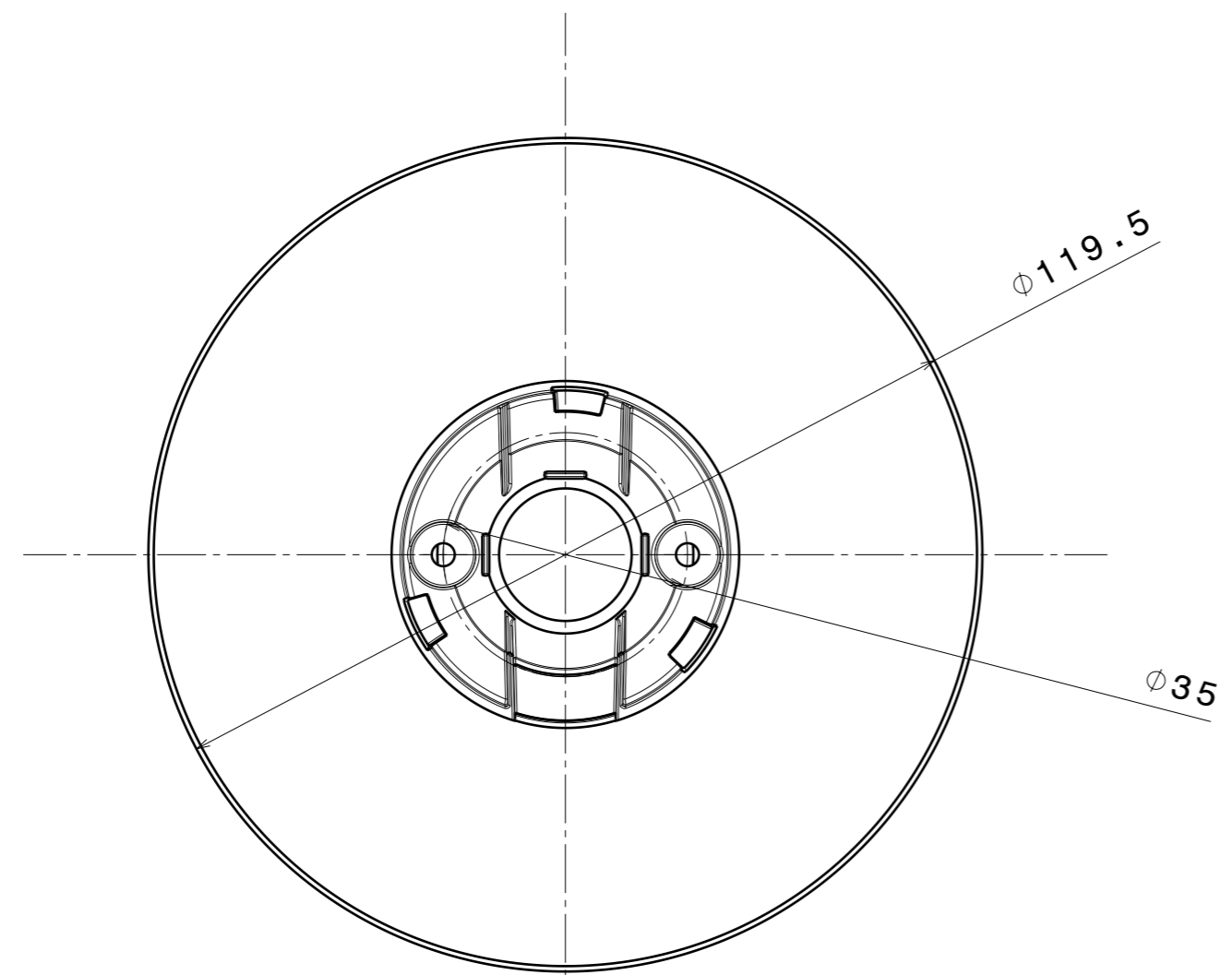
Relative intensity of FCN13706_ANGELA-M_(V15)



H G F E D C B A

4
3
2
1

4
3
2
1



	DIMENSION A
WITH LEDIL LUXEON S SOCKETS	80.5 mm
WITH TYCO SOCKET	80.5 mm
WITH LEDIL BRIDGELUX VERO SOCKETS 13-18	79.5 mm

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
DATA SHEET ANGELA

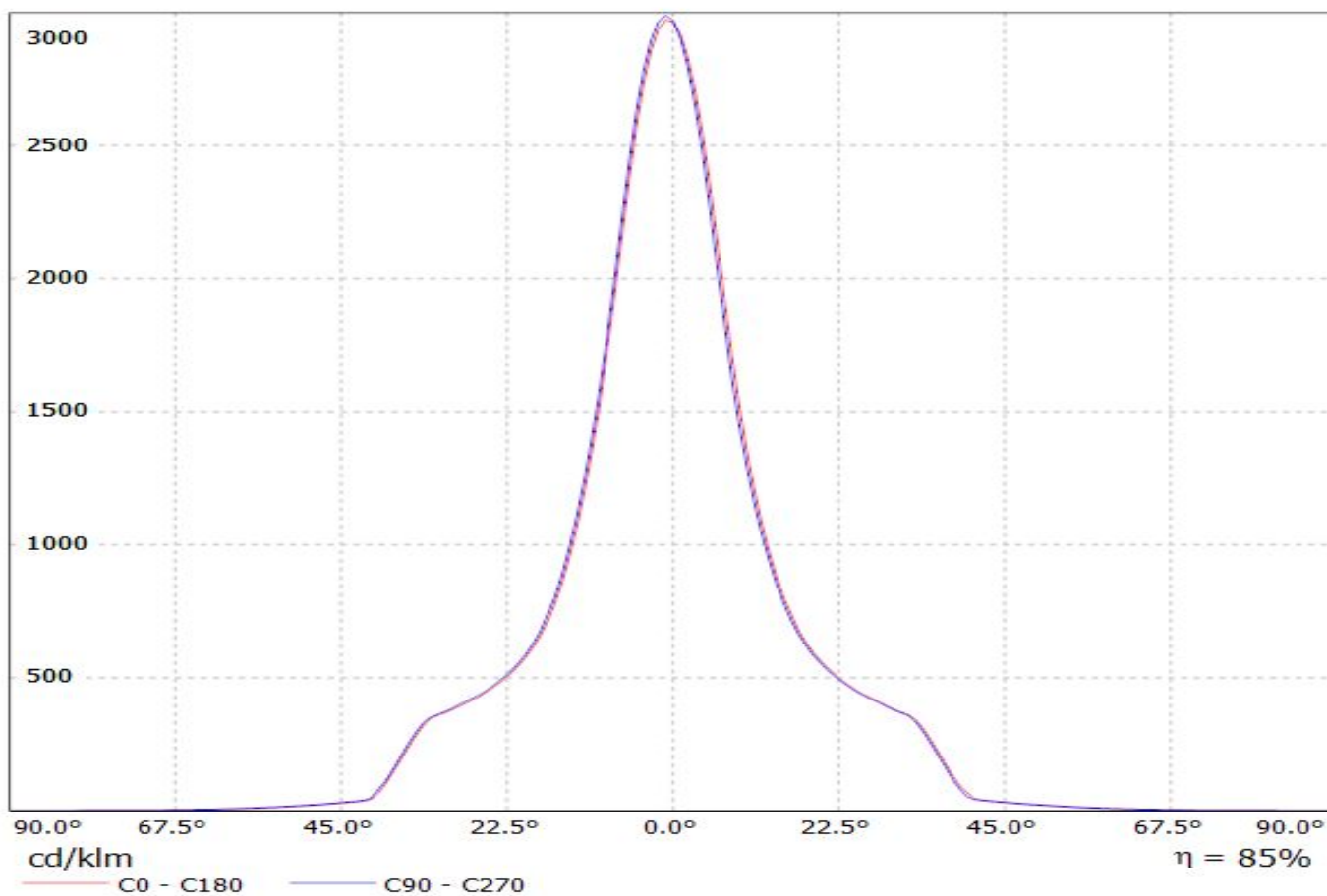
This drawing is the property of LEDiL Oy. It may not be reproduced, copied or communicated without a written agreement with LEDiL Oy."

SIZE PART NUMBER
A3 -

SCALE 1:1 WEIGHT - SHEET 1/1

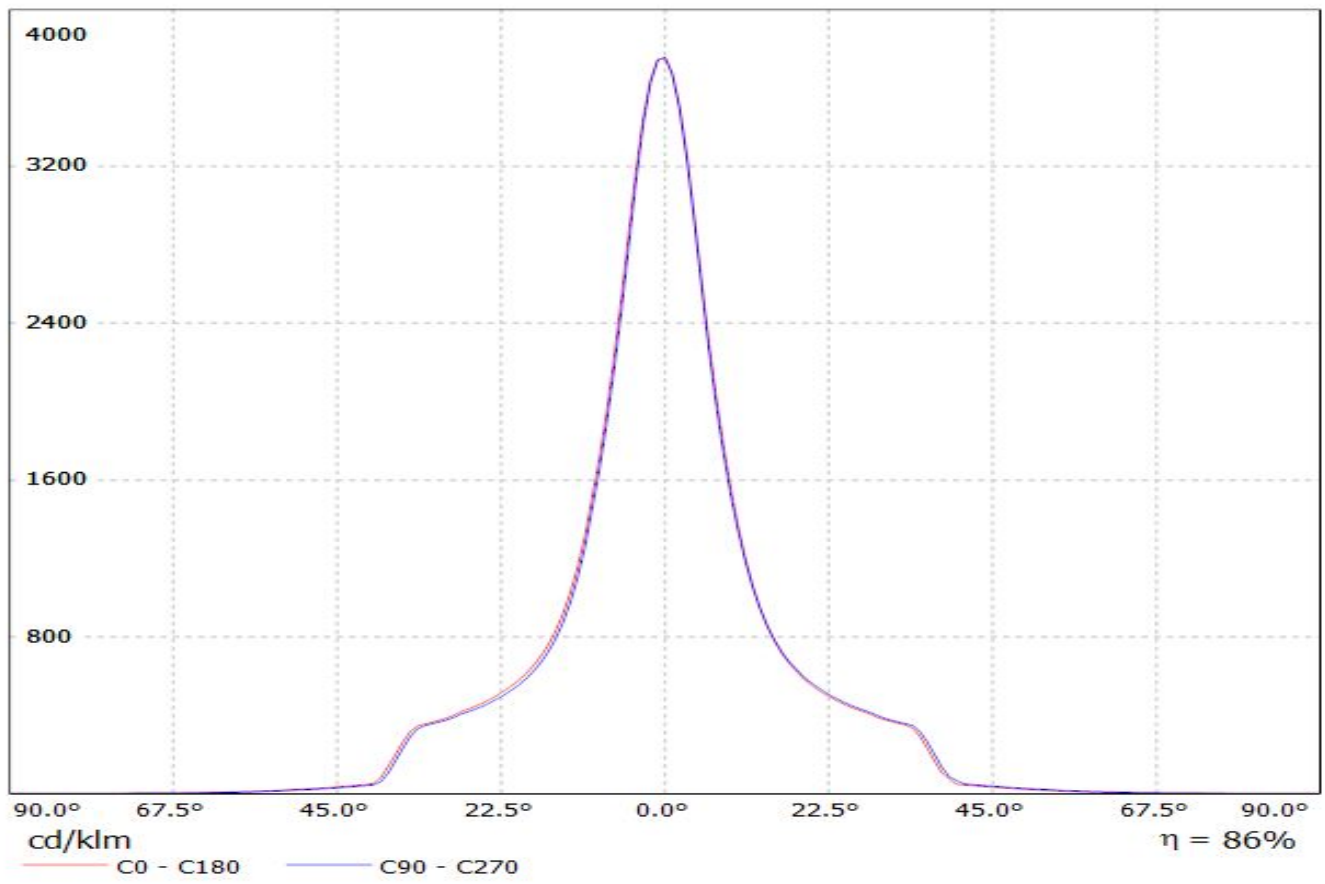
H G B A

Luminaire: LEDiL Oy FCN13706_ANGELA-M_(Vero18) Eff.85.0%
Lamps: 1 x VERO18_(BXRC30E4000F)_882.261lm@250mA P=6.73161W I=249.8mA

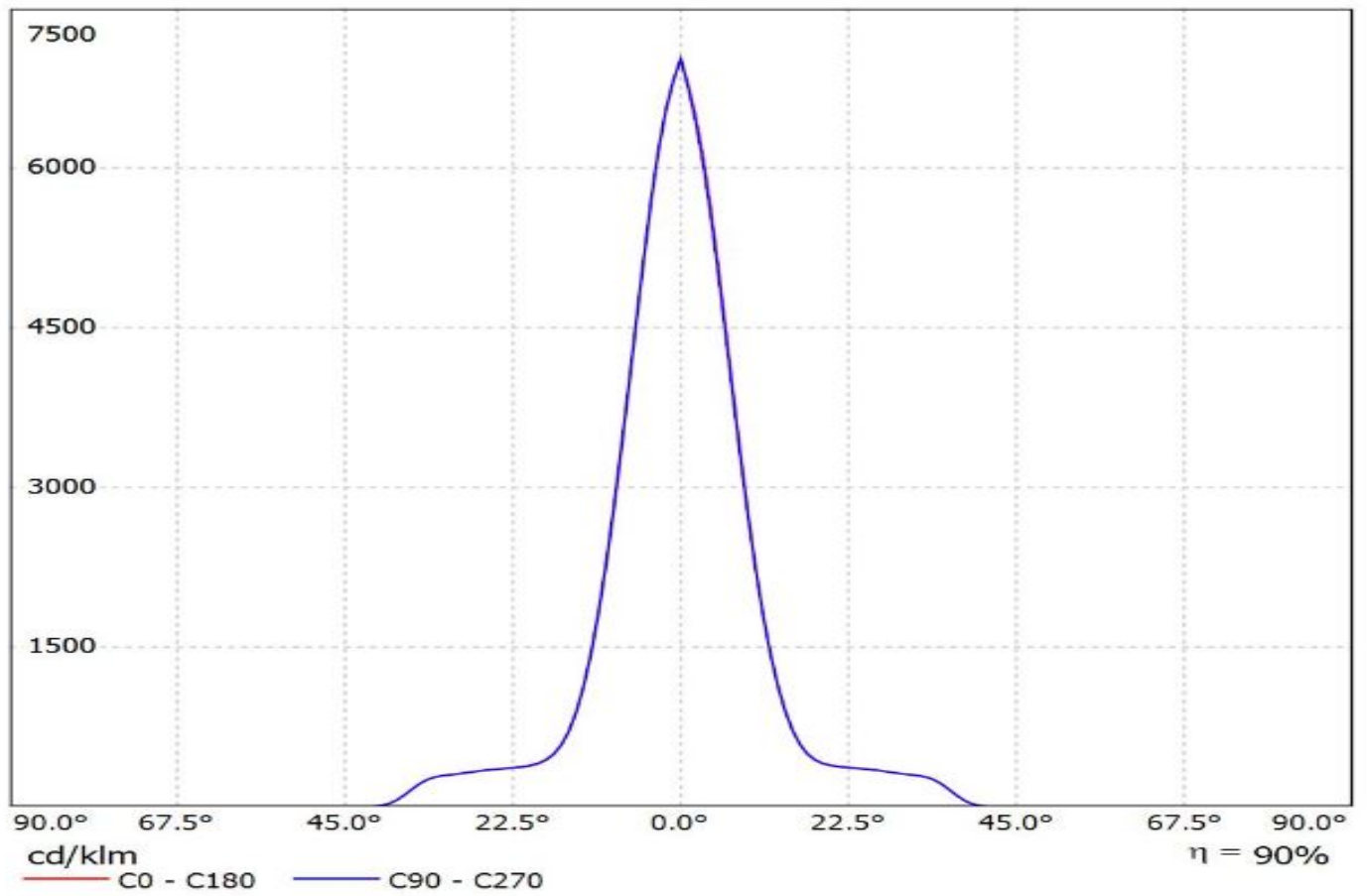


Luminaire: LEDiL Oy FCN13706_ANGELA-M_(VERO13)

Lamps: 1 x Bridgelux_VERO13_(BXRC-30E2000C)_1065.93lm@250mA_P=7.63514W_I=249.8mA



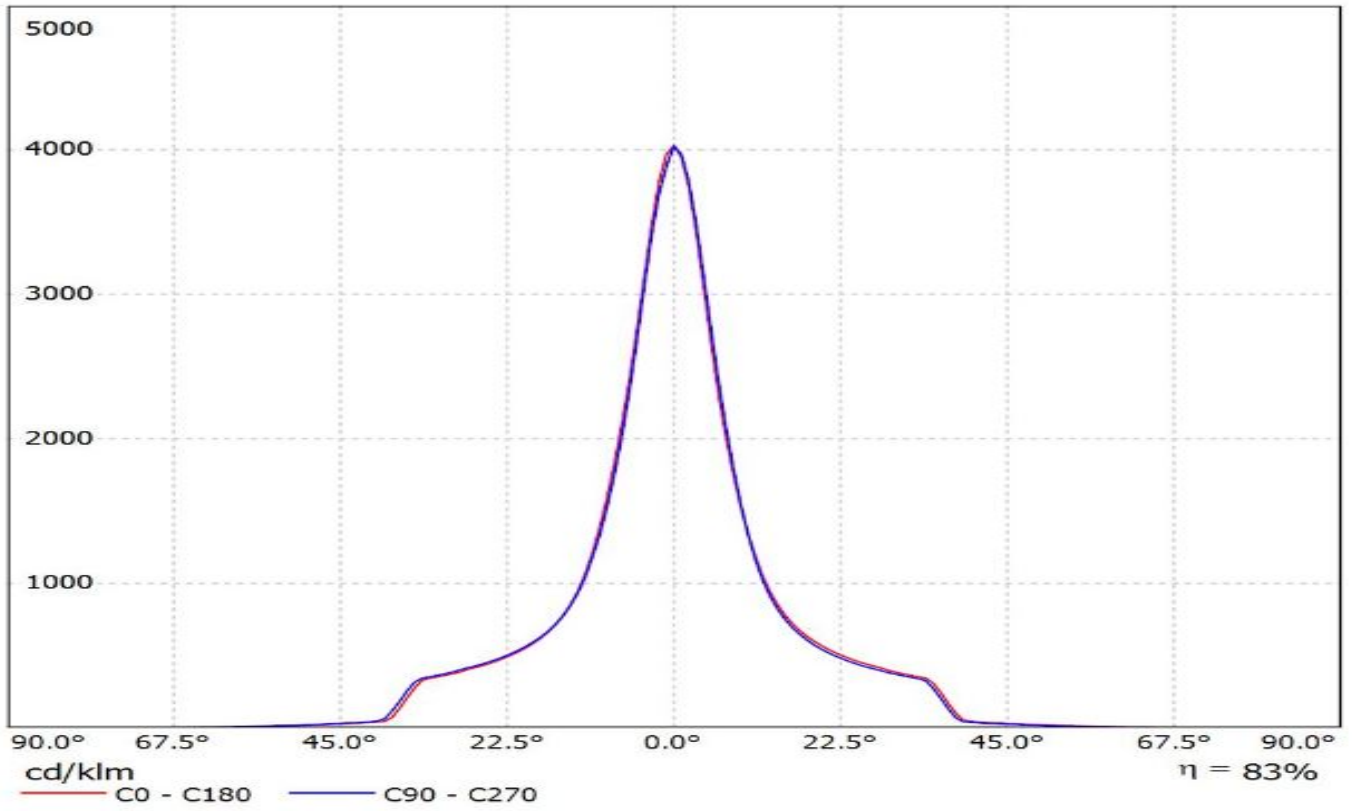
Luminaire: Ledil Oy FCN13706_ANGELA-M+_B+W_434_TypL1_BRIDGELUX_V10_Gen7_SIMULATED
Lamps: 1 x BRIDGELUX V10 Gen7



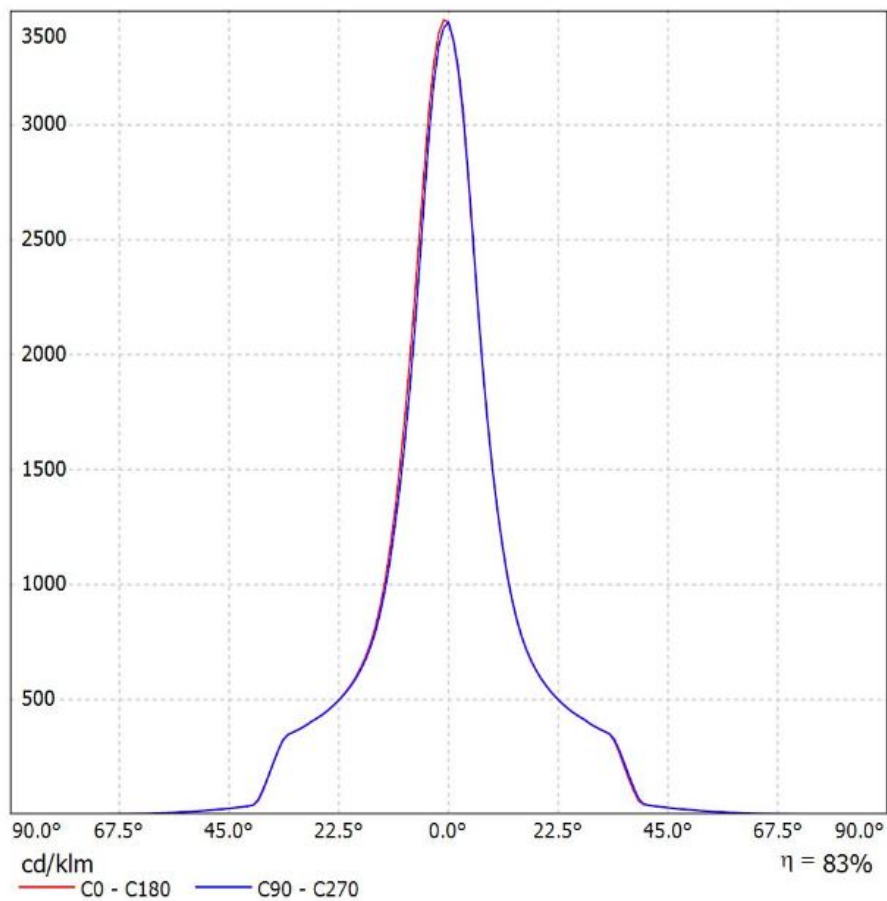
Ledil FCN13706_ANGELA-M_(CLU720)_(433_Typ_L1) / LDC (Linear)

Luminaire: Ledil FCN13706_ANGELA-M_(CLU720)_(433_Typ_L1)

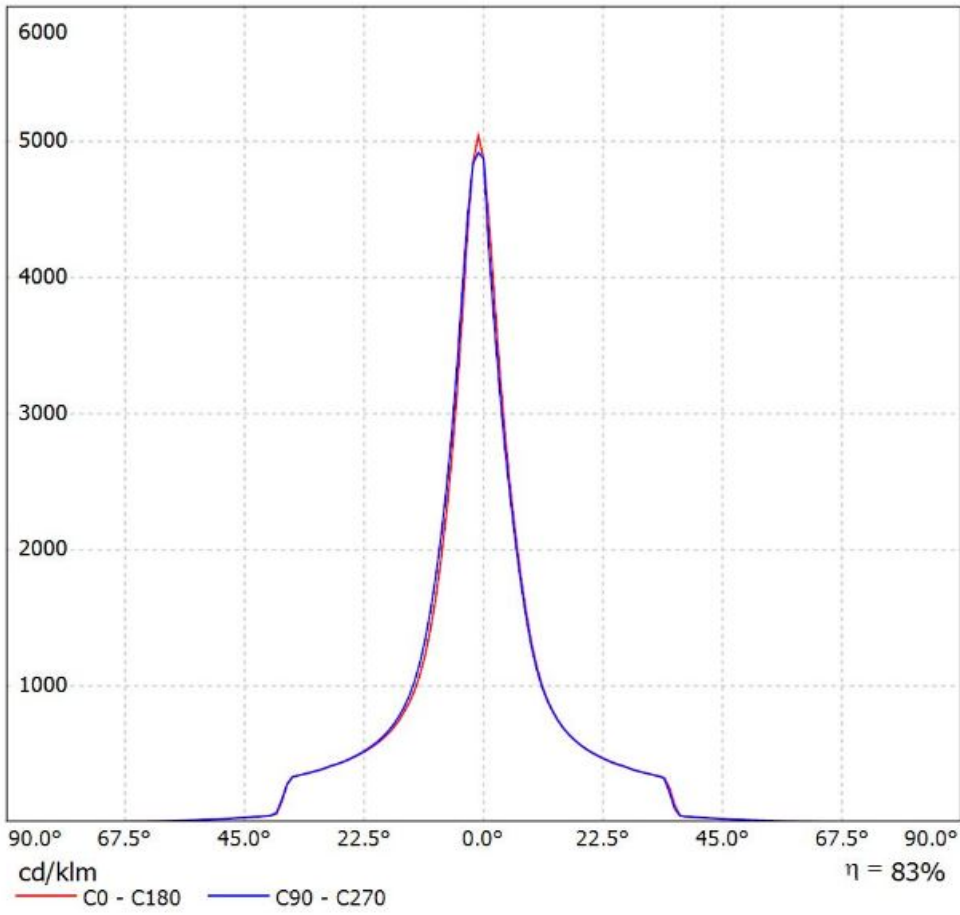
Lamps: 1 x Citizen_CLU720_(CLU720-1206B8-273M2G1)_1225.89lm@250mA_P=8.3W_I=0.25A



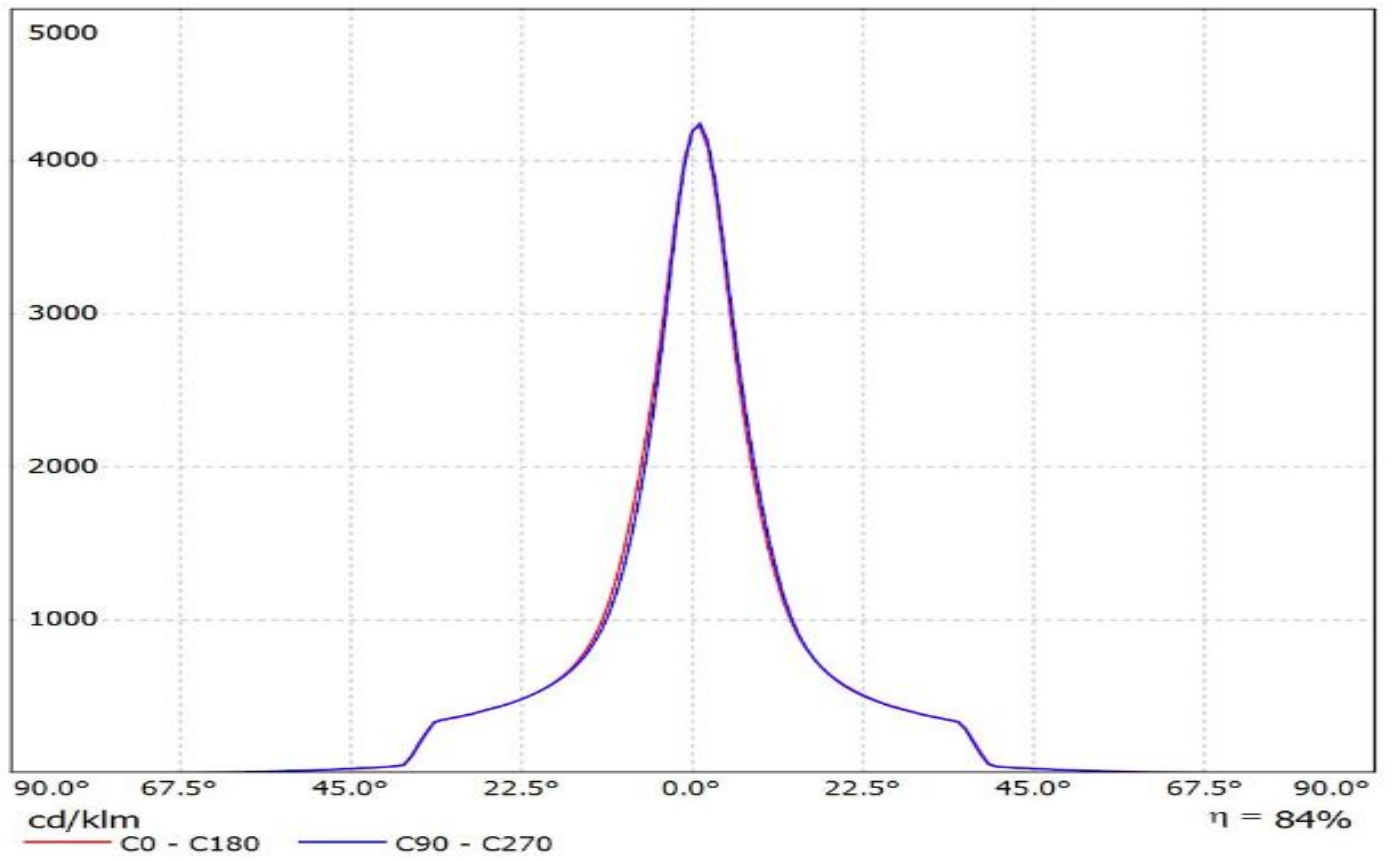
Luminaire: Ledil FCN13706_ANGELA-M_(CLU034)_ (433_Typ_L1)_ (C13658) Citizen_CLU034_(CLU034-1205B8-303M1A2)_1180.79lm@250mA_P=8.50075W_I=0.25A
Lamps: 1 x Citizen_CLU034_(433_Typ_L1)_ (C13658)_1173.16lm@250mA_P=8.475W_I=0.25A



Luminaire: Ledil FCN13706_ANGELA-M_(CLU700)_434_Typ_L1 Citizen_CLU700_(CLU700-1002B8-273M2G1)_390.128lm@100mA_P=3W_I=0.10A
Lamps: 1 x Citizen_CLU700_(CLU700-1002B8-273M2G1)_388.036lm@100mA_P=3W_I=0.10A

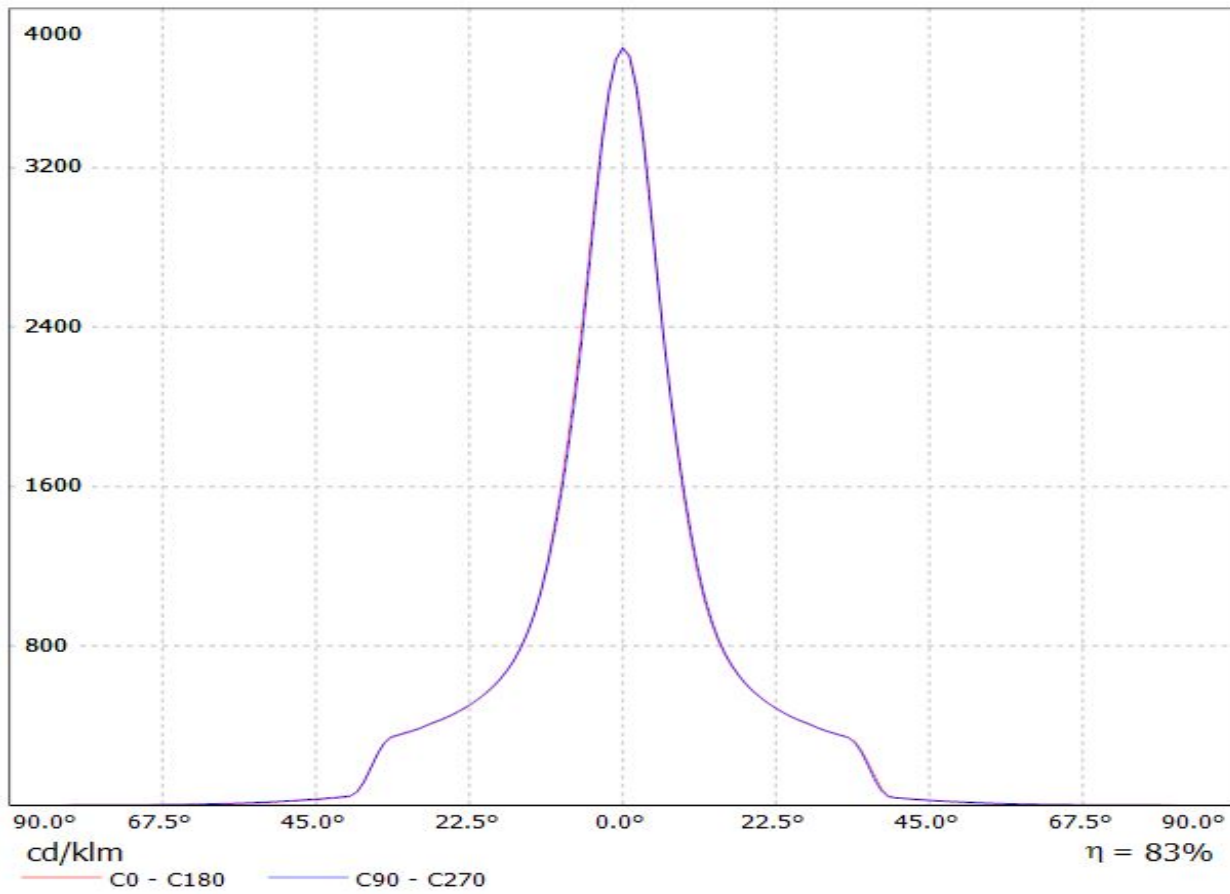


Luminaire: Ledil FCN13706_ANGELA-M_(CLU024)_(433_Typ_L1) Citizen_CLU024_(433_Typ_L1)_
(C13658_CLAMP-VERO13-18)_1071.07lm@250mA_P=8.43W_I=0.25A
Lamps: 1 x Citizen_CLU024_(433_Typ_L1)_(C13658_CLAMP-VERO13-18)
_1071.07lm@250mA_P=8.43W_I=0.25A



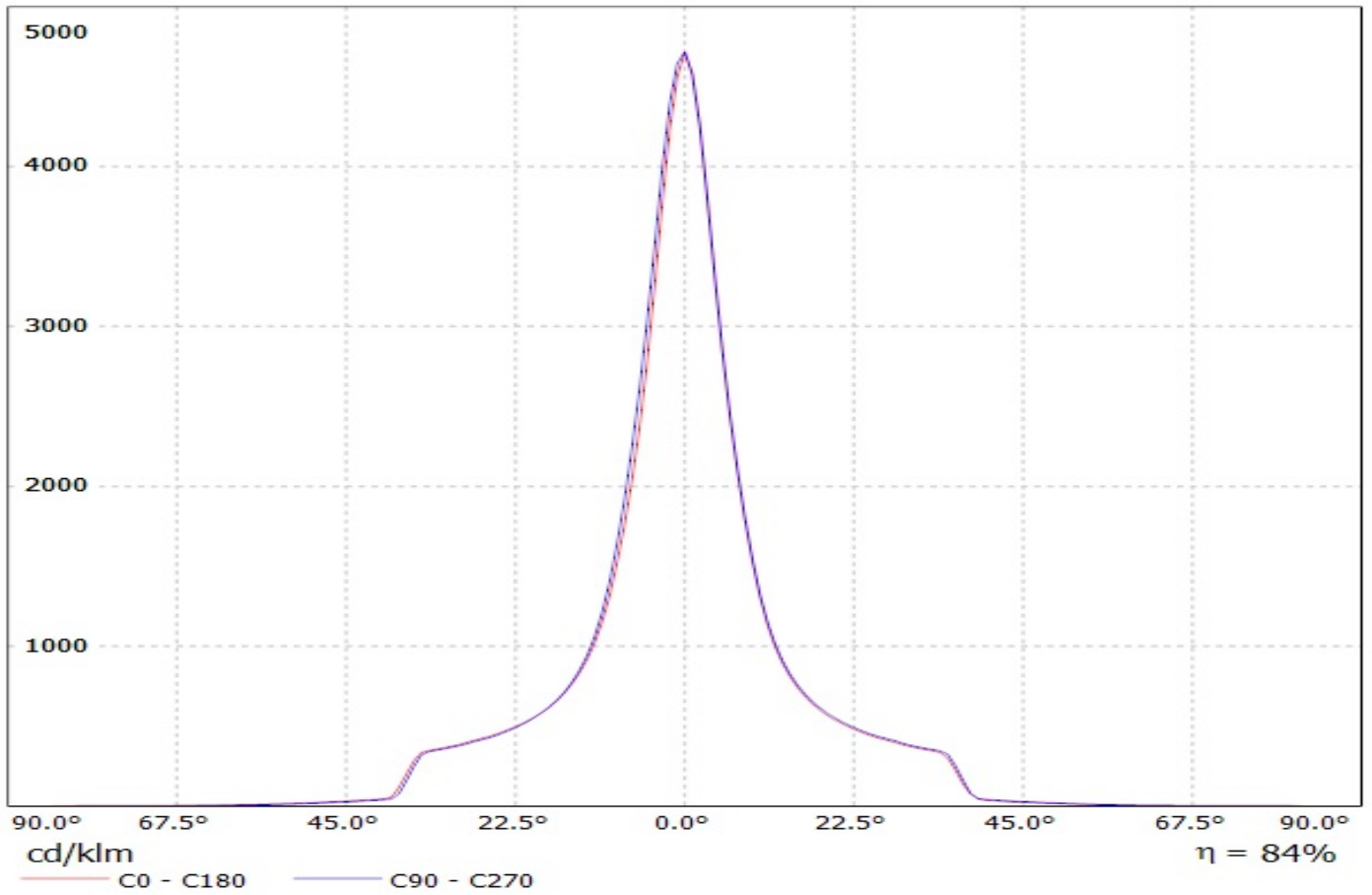
Luminaire: Ledil FCN13706_ANGELA-M_(CXA1850)

Lamps: 1 x CREE_CXA1850_(CXA1850-30F-T4-N0Y-00001)_831.914lm@250mA_CCT=3000K_P=8.27W_I=0.25A

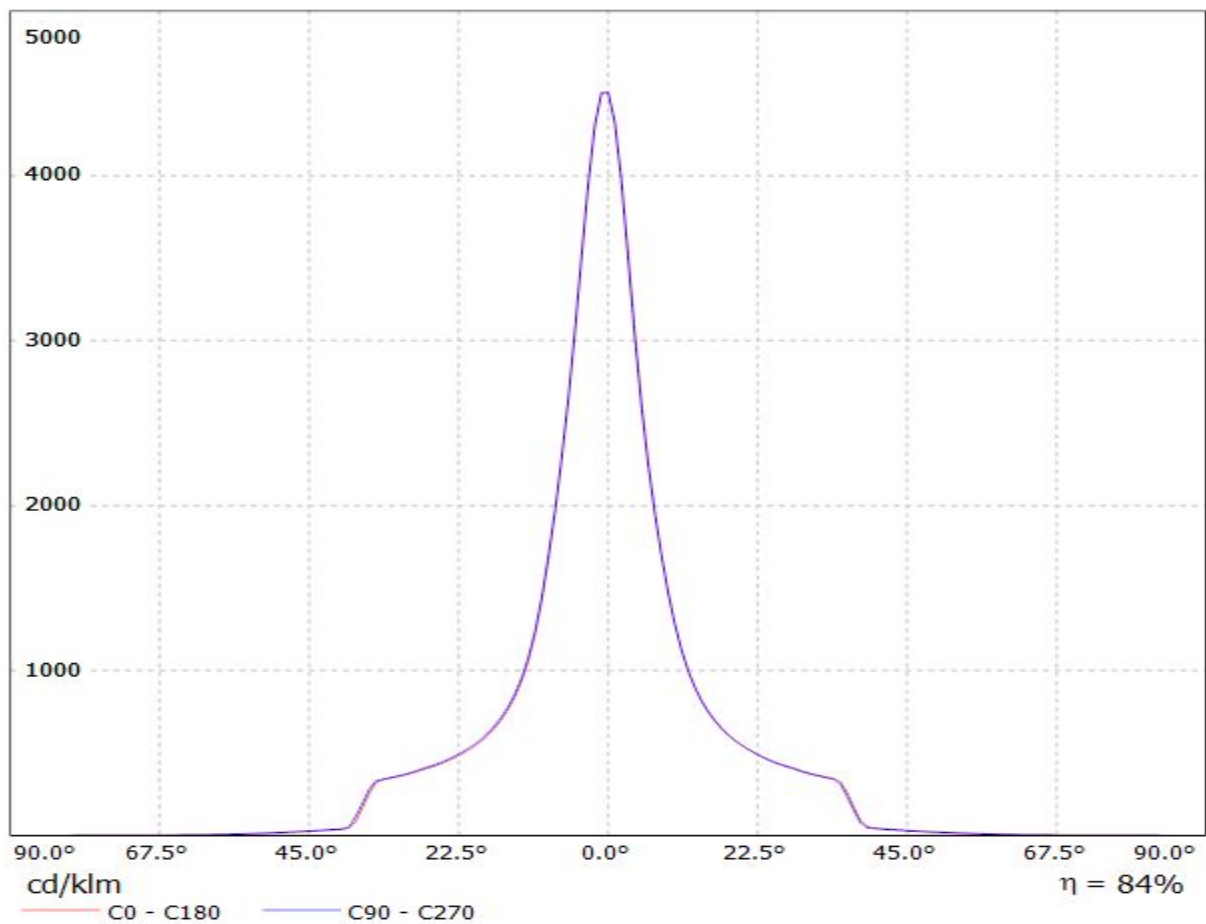


Luminaire: LEDiL Oy FCN13706_ANGELA-M_(CXA1520)_ (441_Typ_L1)

Lamps: 1 x Cree_CXA1520_(CXA1520-30F-N4-00H-00001)_993.209lm@250mA_P=8.74575W_η=0.2499A

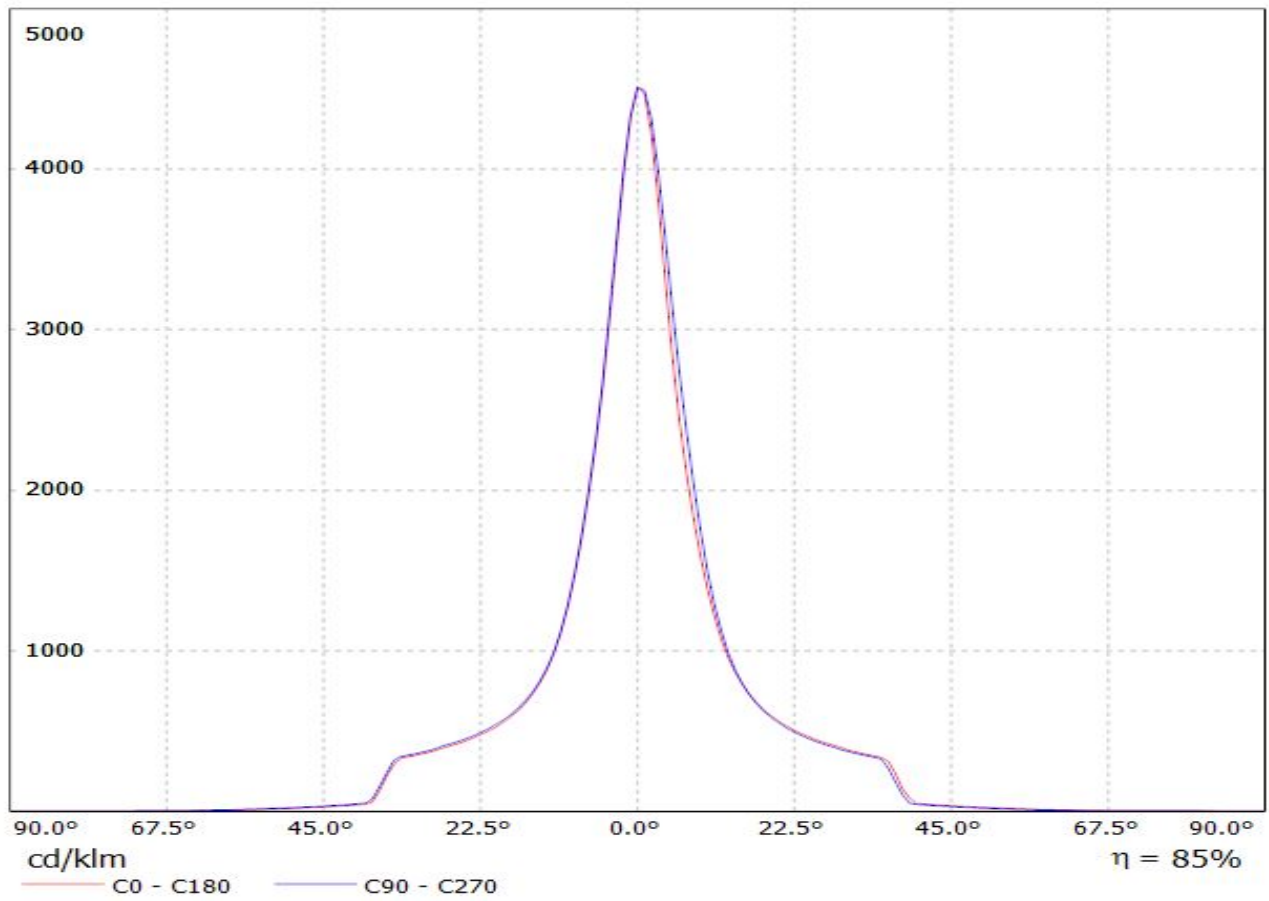


Luminaire: LEDiL Oy FCN13706_ANGELA-M_(LUXEON_CoB_1203)_ (438_Typ_L1)_ (C13658_CLAMP-VERO13-18)
Lamps: 1 x LUXEON_CoB_1203_(438_Typ_L1)_ (C13658_CLAMP-VERO13-18)_984.561lm@250mA_P=8.6828W_I=0.25A

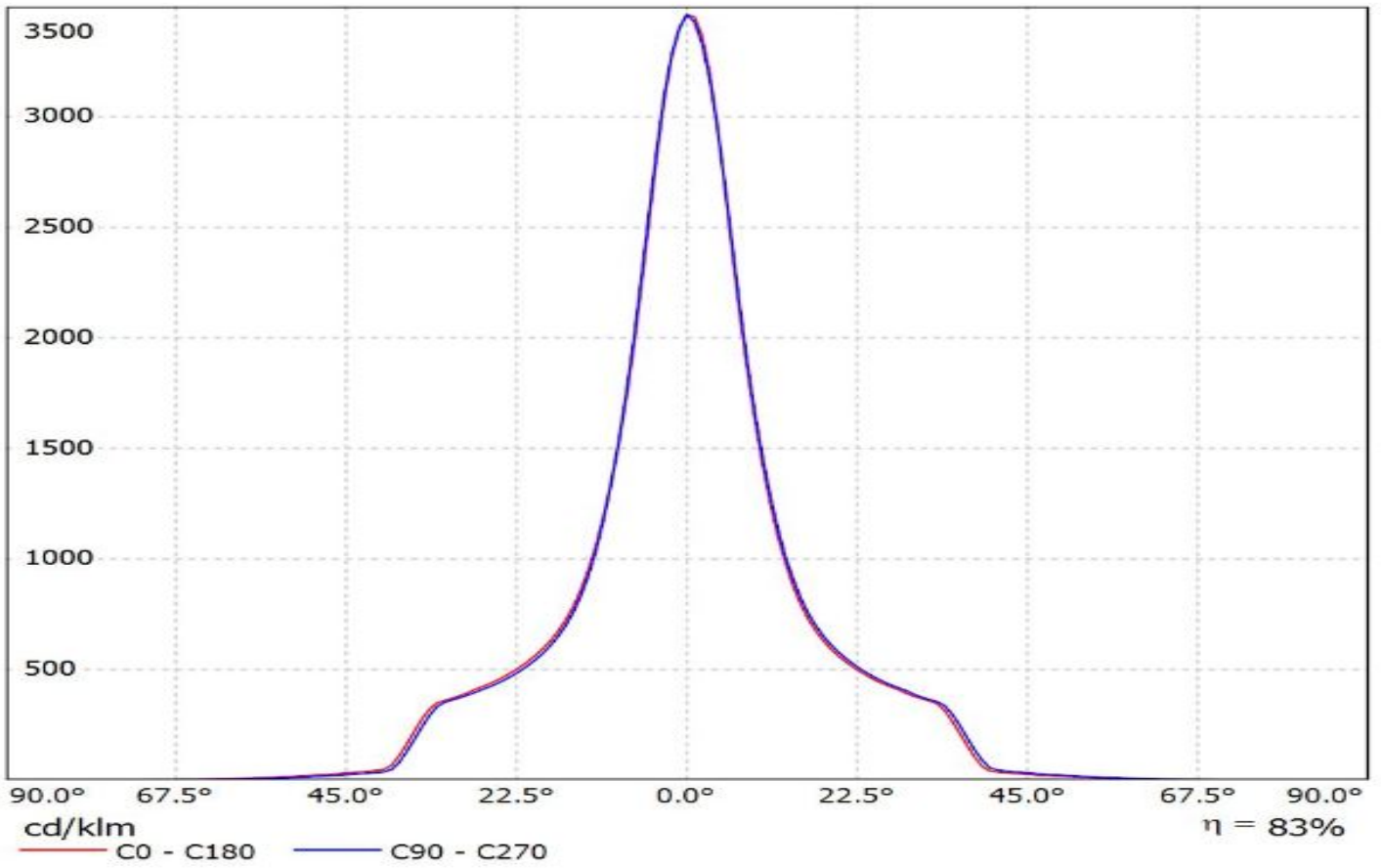


Luminaire: LEDiL Oy FCN13706_ANGELA-M (NFCLL036B)

Lamps: 1 x Nichia NFCLL036B (sm403J1300R8000)_541.131lm@100mA_CCT=4000K_P=3.34324W_I=0.100A

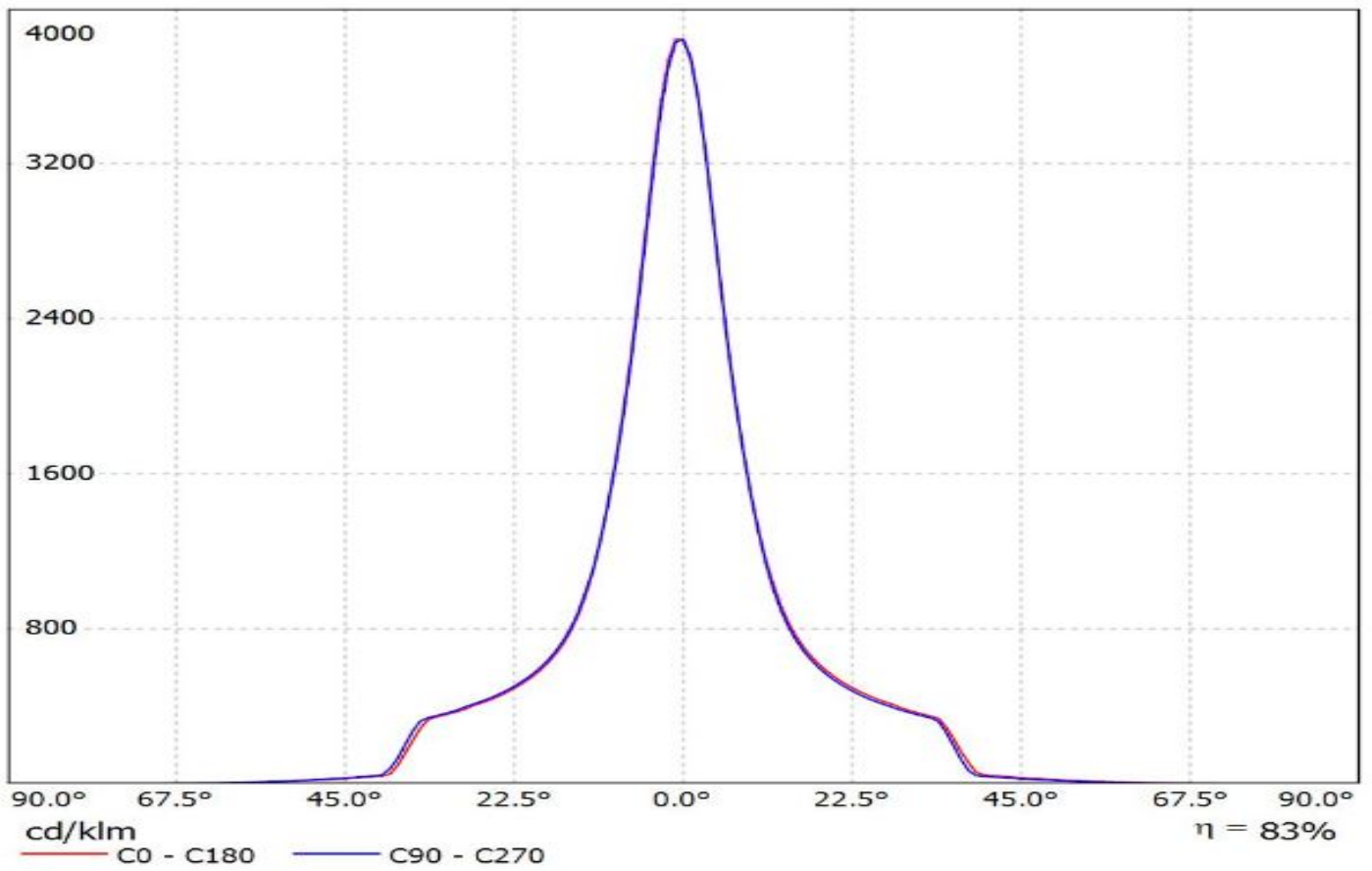


Luminaire: Ledil FCN13706_ANGELA-M_(NFDxJ130B)
Lamps: 1 x Nichia_NFDxJ130B_(463 Typ L2)_C13658_CLAMP-
VERO13_1504.8lm@250mA_P=8.27W_I=0.25A



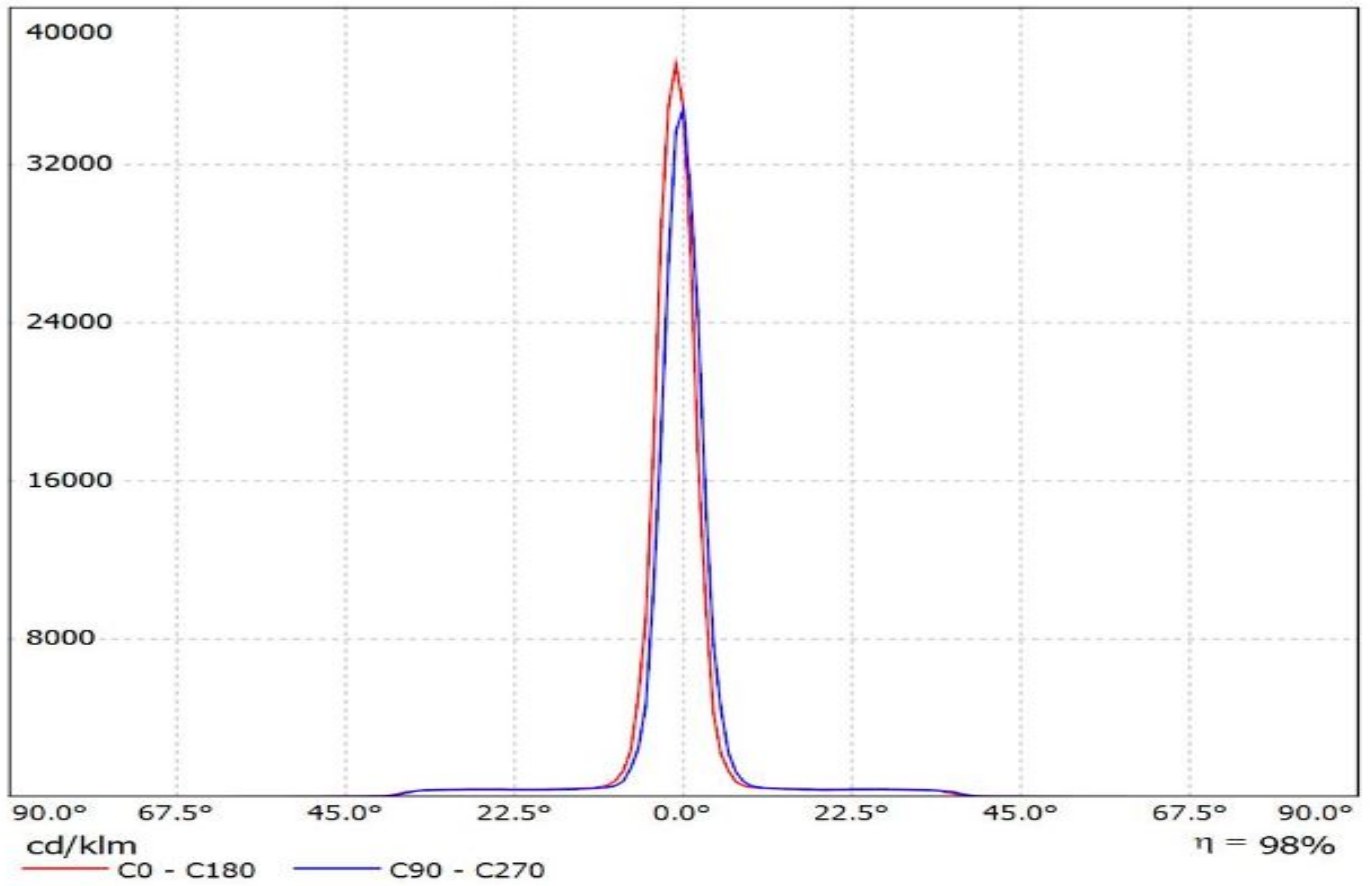
Luminaire: Ledil FCN13706_ANGELA-M_(NFCLL060B)

Lamps: 1 x Nichia_NFCLL060B_(438_TYP_L1)_C13658_1356.65lm@250mA_P=8.375W_I=0.25A



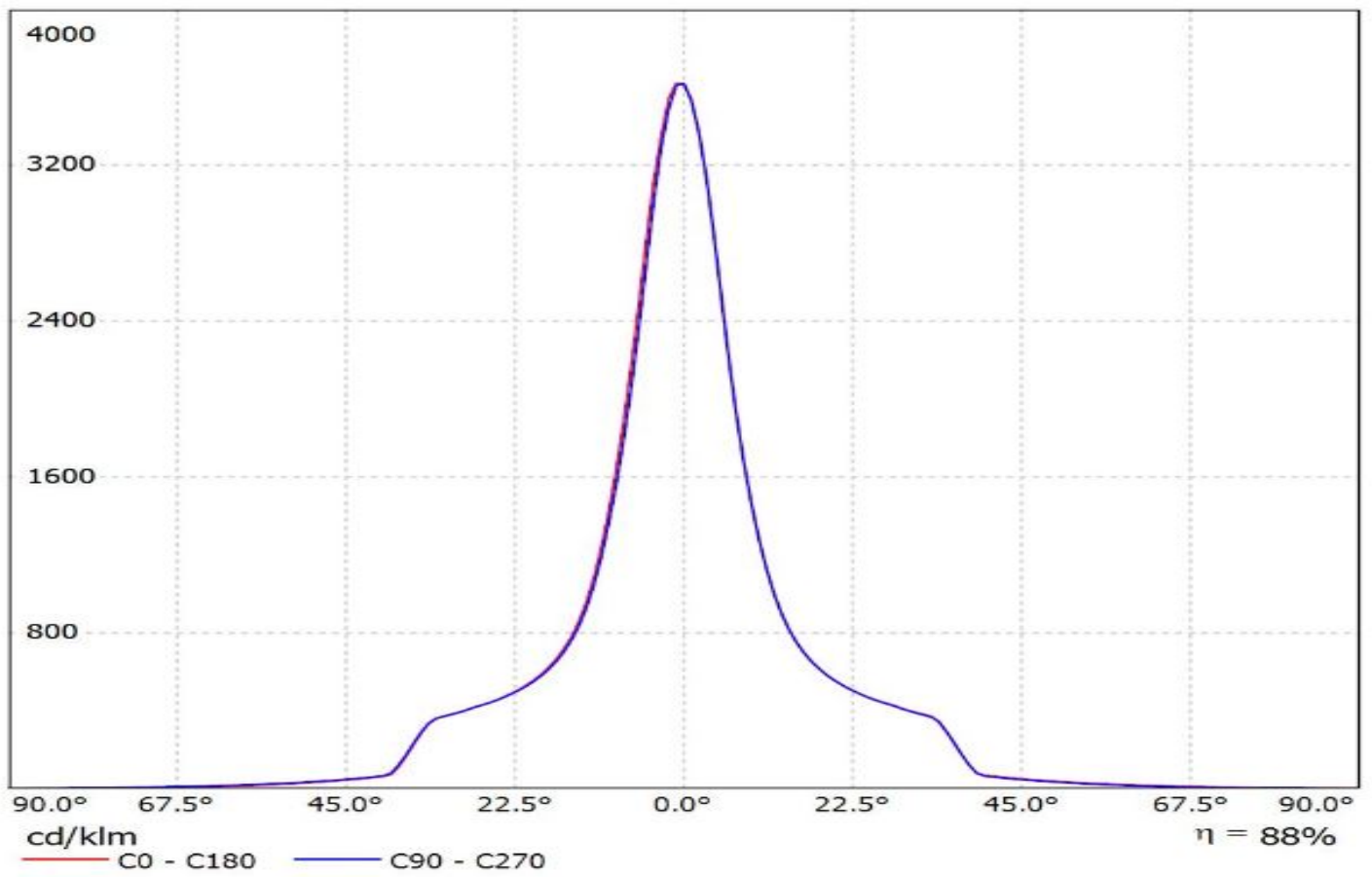
Luminaire: Ledil FCN13705_ANGELA-S_(Soleriq_P9)

Lamps: 1 x Osram_Soleriq_P9_(GW_MAFJB1.EM)_972.417lm@250mA_CCT=4299K_P=6.9W_I=0.25A



Luminaire: Ledil FCN13706_ANGELA-M_(Soleriq_P13)

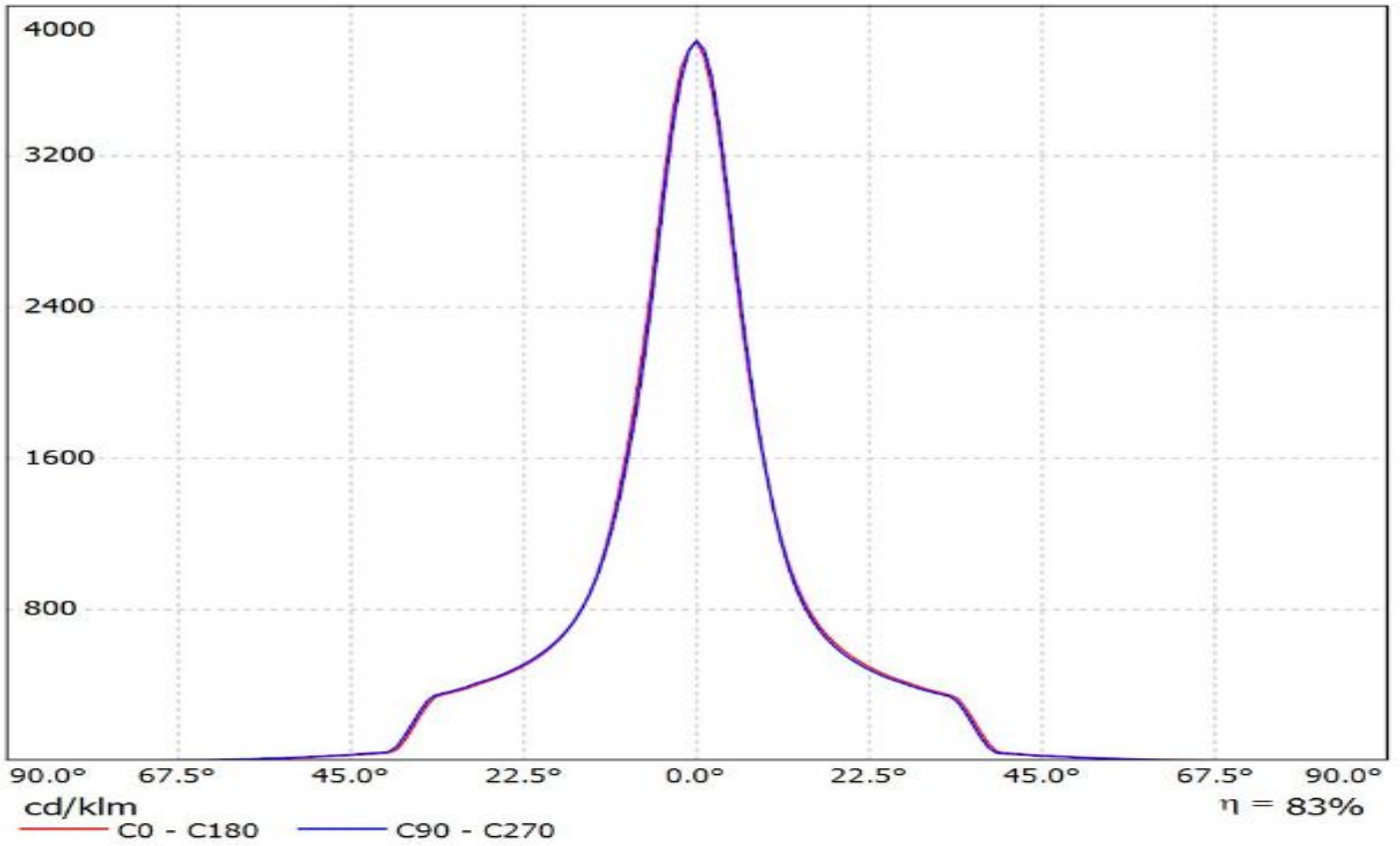
Lamps: 1 x Osman_Soleriq_P13_1009.11lm@250mA_P=6.9385W_I=0.25A



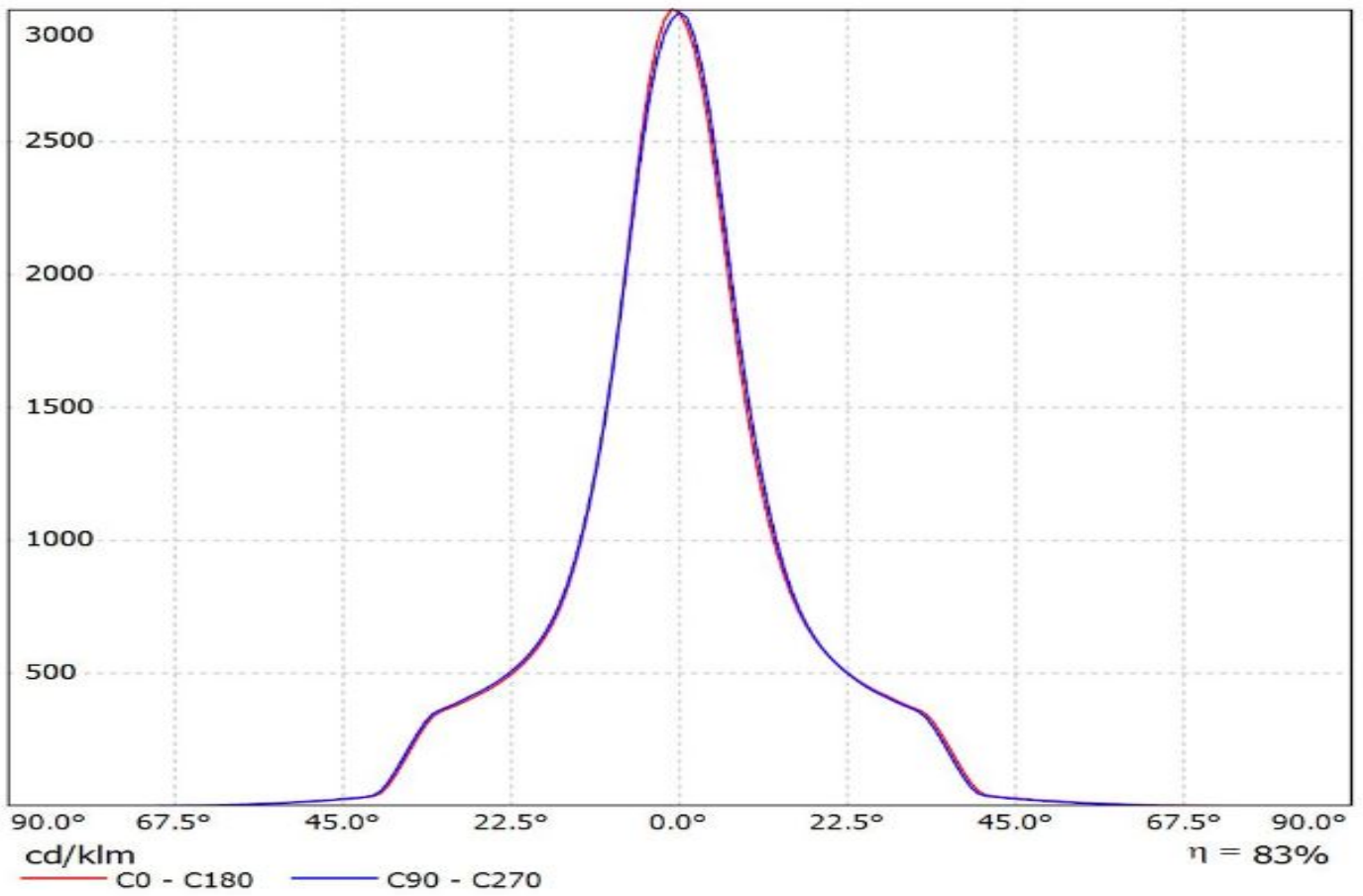
Ledil FCN13706_ANGELA-M_(Soleriq_S13) / LDC (Linear)

Luminaire: Ledil FCN13706_ANGELA-M_(Soleriq_S13)

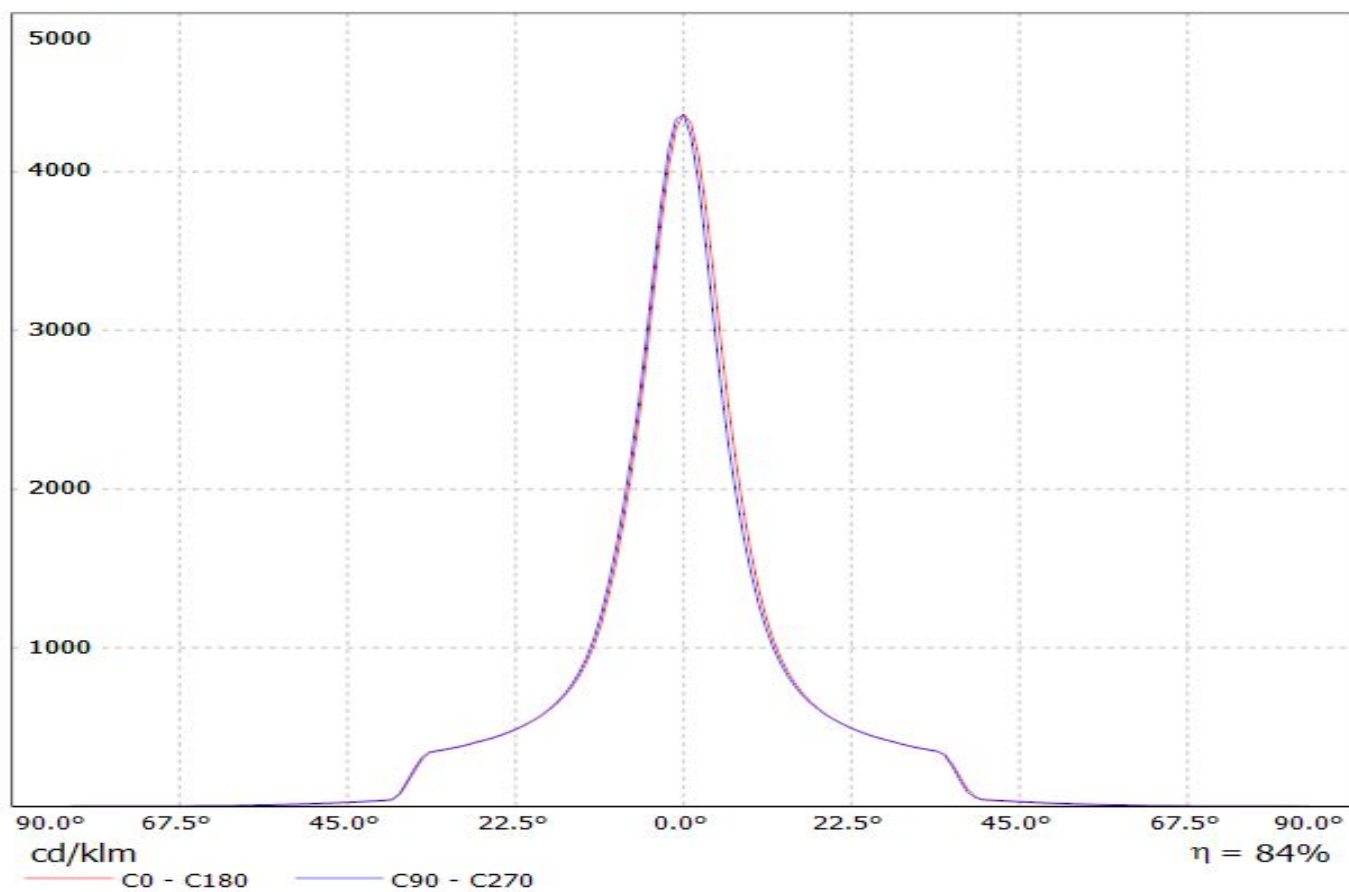
Lamps: 1 x Osram_Soleriq_S13_(GW_KAGHB1.EM)_896.727lm@250mA_P=7.44679W_I=250mA



Luminaire: Ledil FCN13706_ANGELA-M_(450_Typ_L2)_(C13658_CLAMP-VERO13-18)_(LC040B)
Lamps: 1 x Samsung_LC040B_CCT=3000K_(SPHWW1HDNE25010101)_(450_Typ_L2)_(C13658_CLAMP-VERO13-18)_1109.31lm@250mA_P=8.2W_I=0.25A

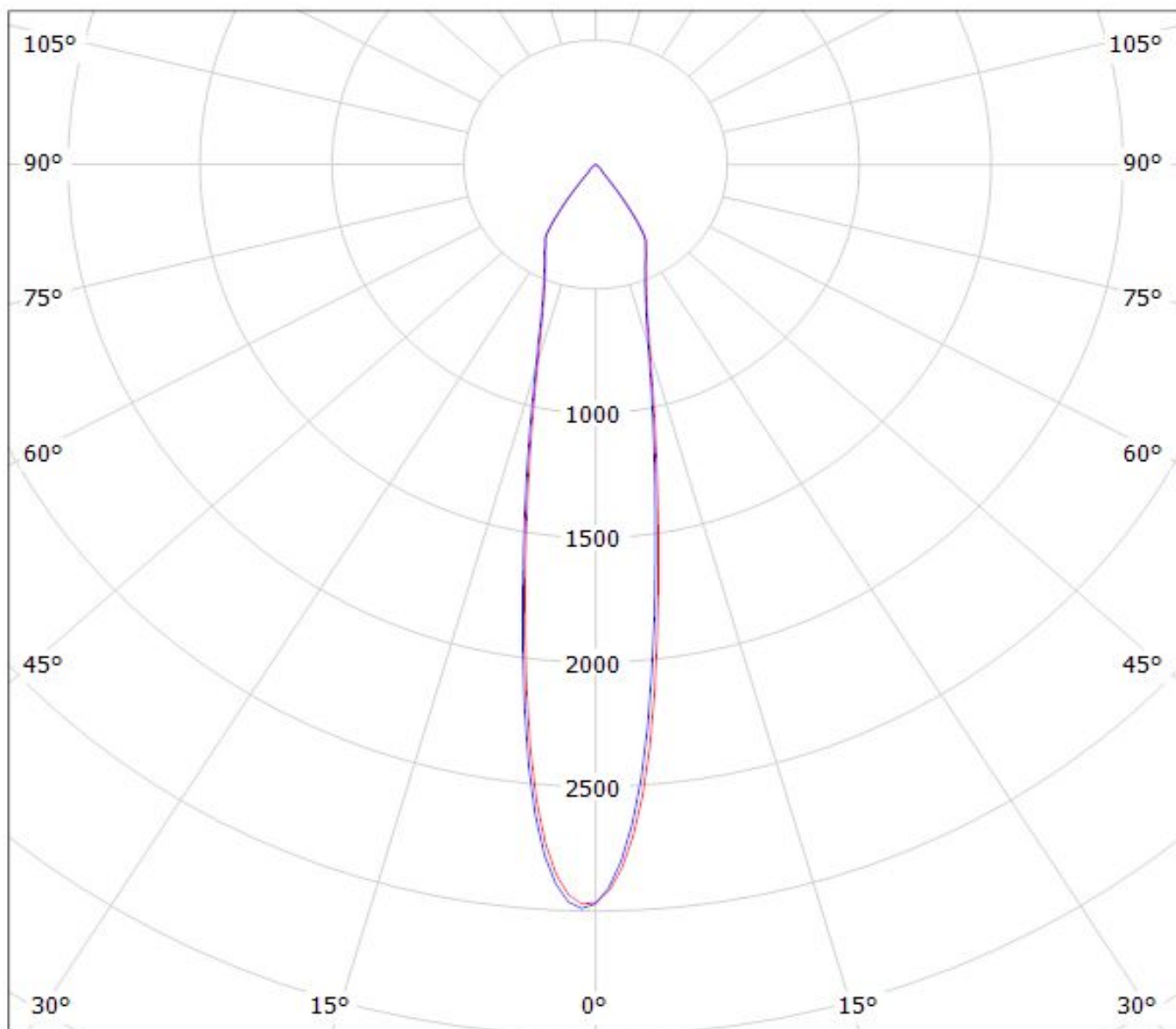


Luminaire: LEDiL Oy FCN13706_ANGELA-M_(SLE-G5_LES-11)
Lamps: 1 x Tridonic_SLE-G5_LES-11_1137.55lm@250mA_P=8.4177W_I=0.250A



Luminaire: LEDiL Oy FCN13706_ANGELA-M_(Vero18) Eff.85.0%

Lamps: 1 x VERO18_(BXRC30E4000F)_882.261lm@250mA P=6.73161W I=249.8mA



cd/klm

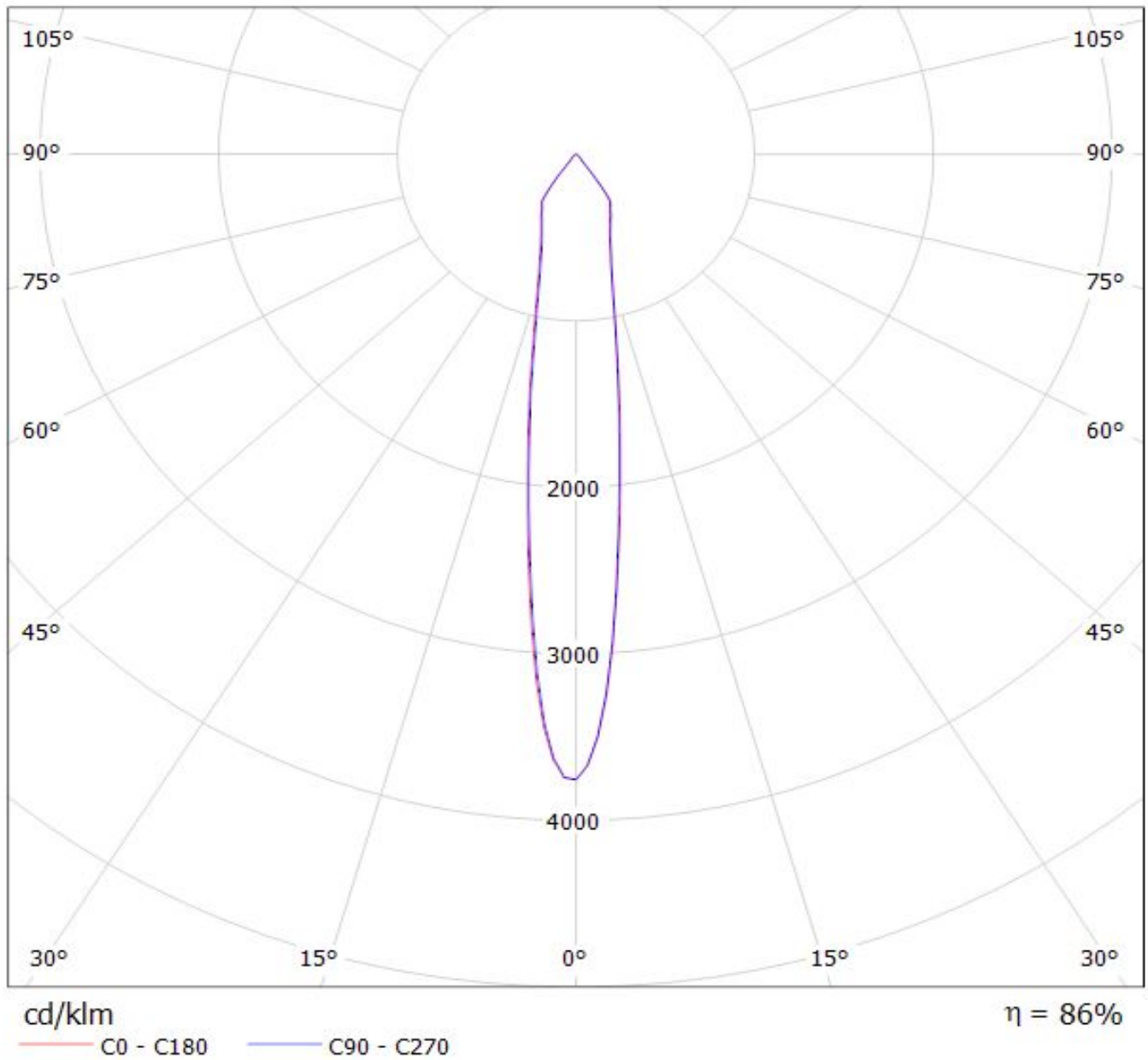
— C0 - C180

— C90 - C270

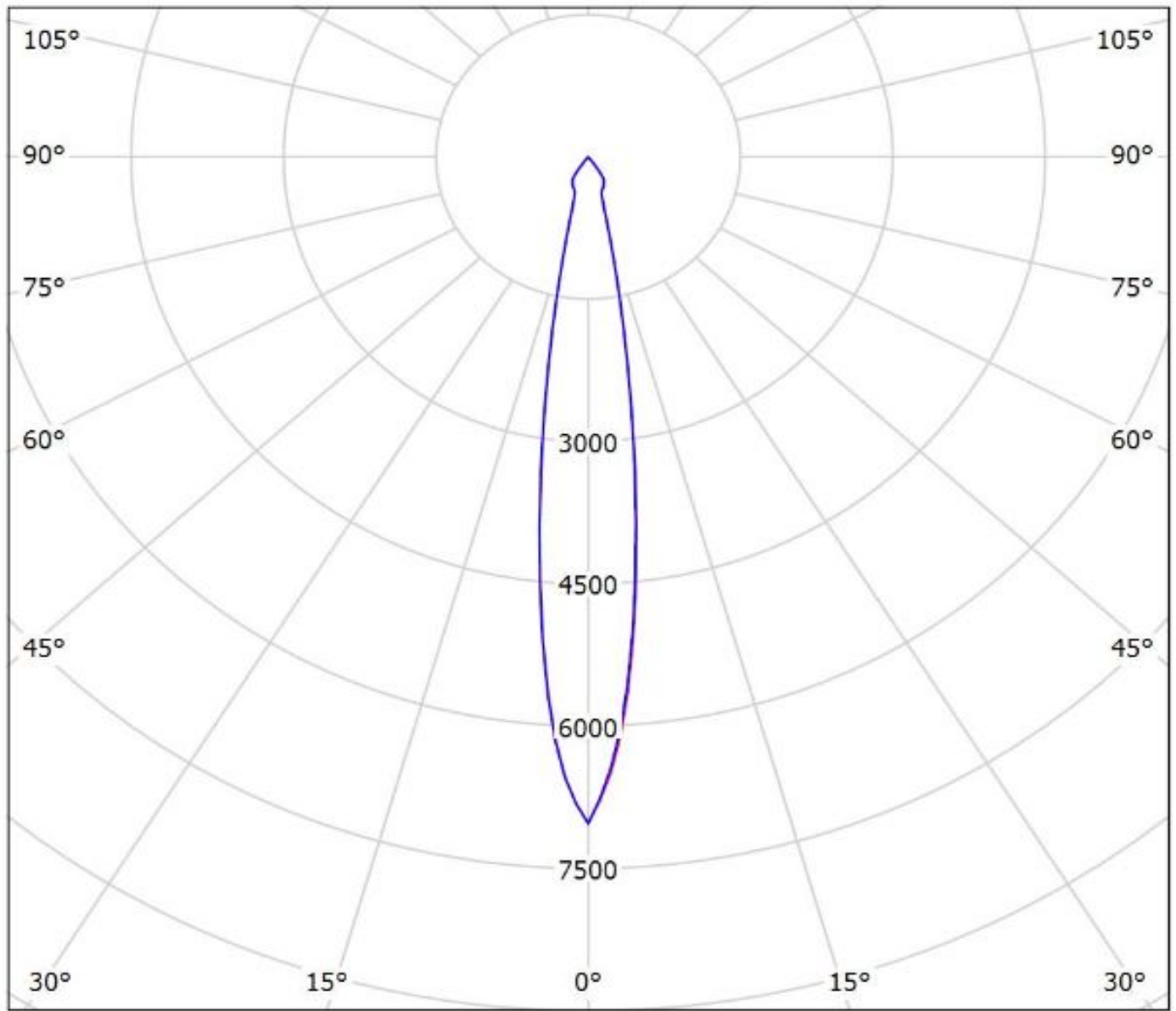
$\eta = 85\%$

Luminaire: LEDiL Oy FCN13706_ANGELA-M_(VERO13)

Lamps: 1 x Bridgelux_VERO13_(BXRC-30E2000C)_1065.93lm@250mA_P=7.63514W_I=249.8mA



Luminaire: Ledil Oy FCN13706_ANGELA-M+_B+W_434_TypL1_BRIDGELUX_V10_Gen7_SIMULATED
Lamps: 1 x BRIDGELUX V10 Gen7



cd/klm

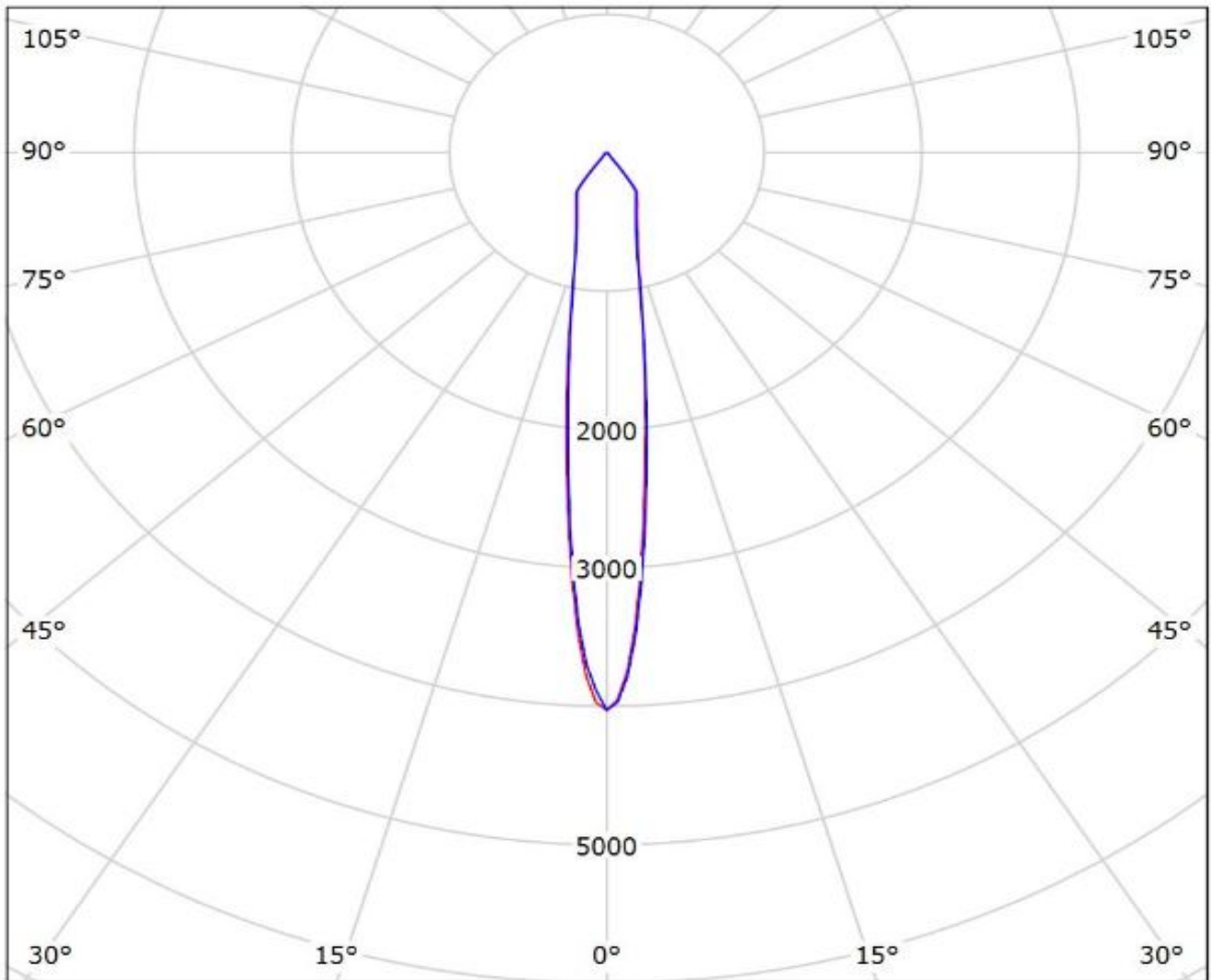
— C0 - C180 — C90 - C270

$\eta = 90\%$

Ledil FCN13706_ANGELA-M_(CLU720)_(433_Typ_L1) / LDC (Polar)

Luminaire: Ledil FCN13706_ANGELA-M_(CLU720)_(433_Typ_L1)

Lamps: 1 x Citizen_CLU720_(CLU720-1206B8-273M2G1)_1225.89lm@250mA_P=8.3W_I=0.25A



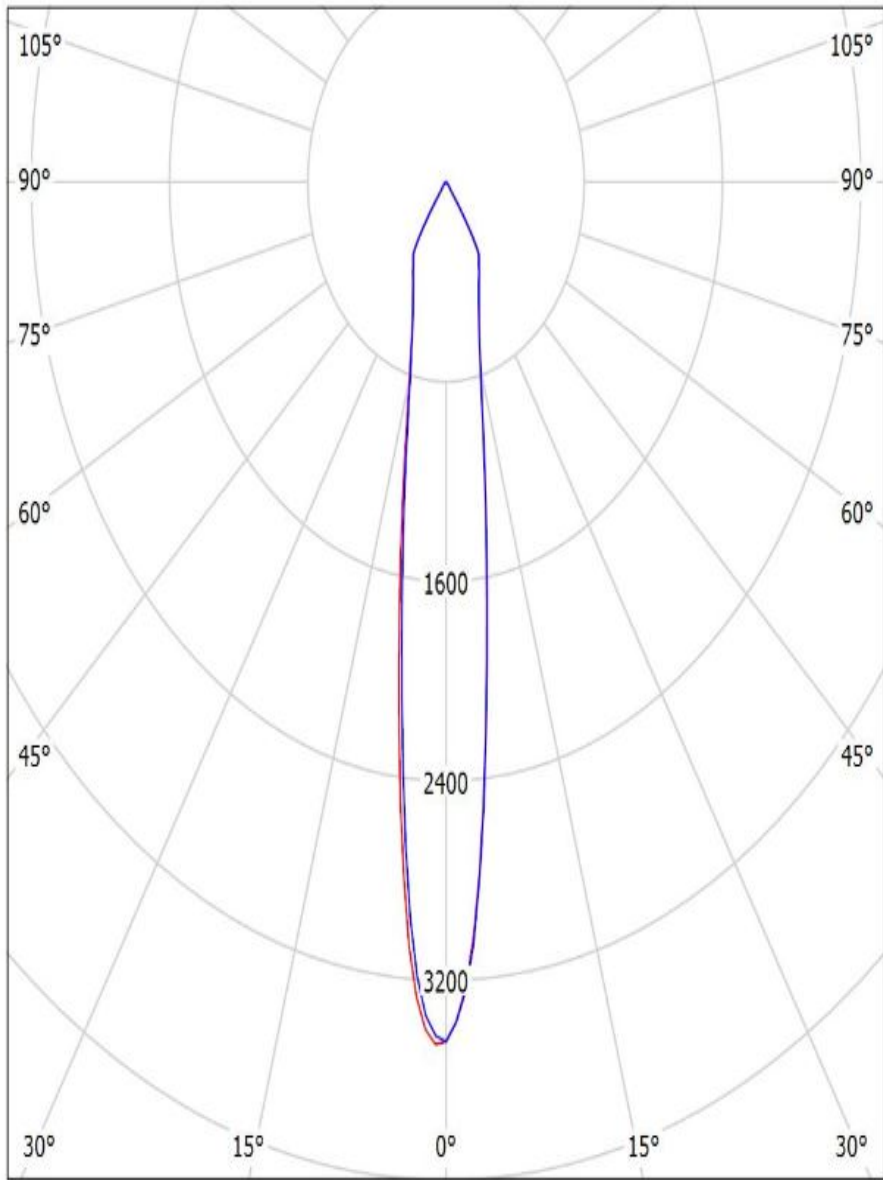
cd/klm

— C0 - C180

— C90 - C270

$\eta = 83\%$

Luminaire: Ledil FCN13706_ANGELA-M_(CLU034)_ (433_Typ_L1)_ (C13658) Citizen_CLU034_(CLU034-1205B8-303M1A2)_1180.79lm@250mA_P=8.50075W_I=0.25A
Lamps: 1 x Citizen_CLU034_(433_Typ_L1)_ (C13658)_1173.16lm@250mA_P=8.475W_I=0.25A

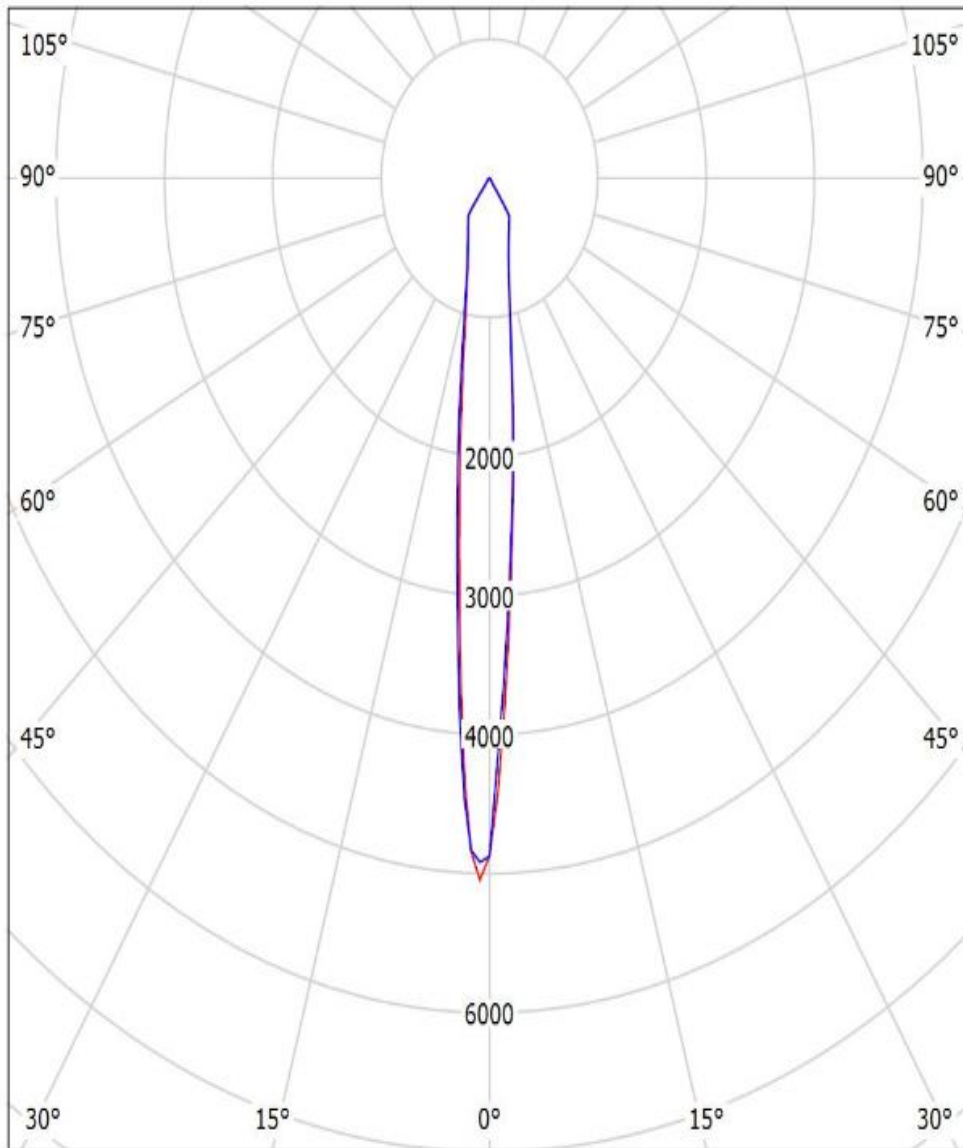


cd/klm

— C0 - C180 — C90 - C270

$\eta = 83\%$

Luminaire: Ledil FCN13706_ANGELA-M_(CLU700)_ (434_Typ_L1) Citizen_CLU700_(CLU700-1002B8-273M2G1)_390.128lm@100mA_P=3W_I=0.10A
Lamps: 1 x Citizen_CLU700_(CLU700-1002B8-273M2G1)_388.036lm@100mA_P=3W_I=0.10A

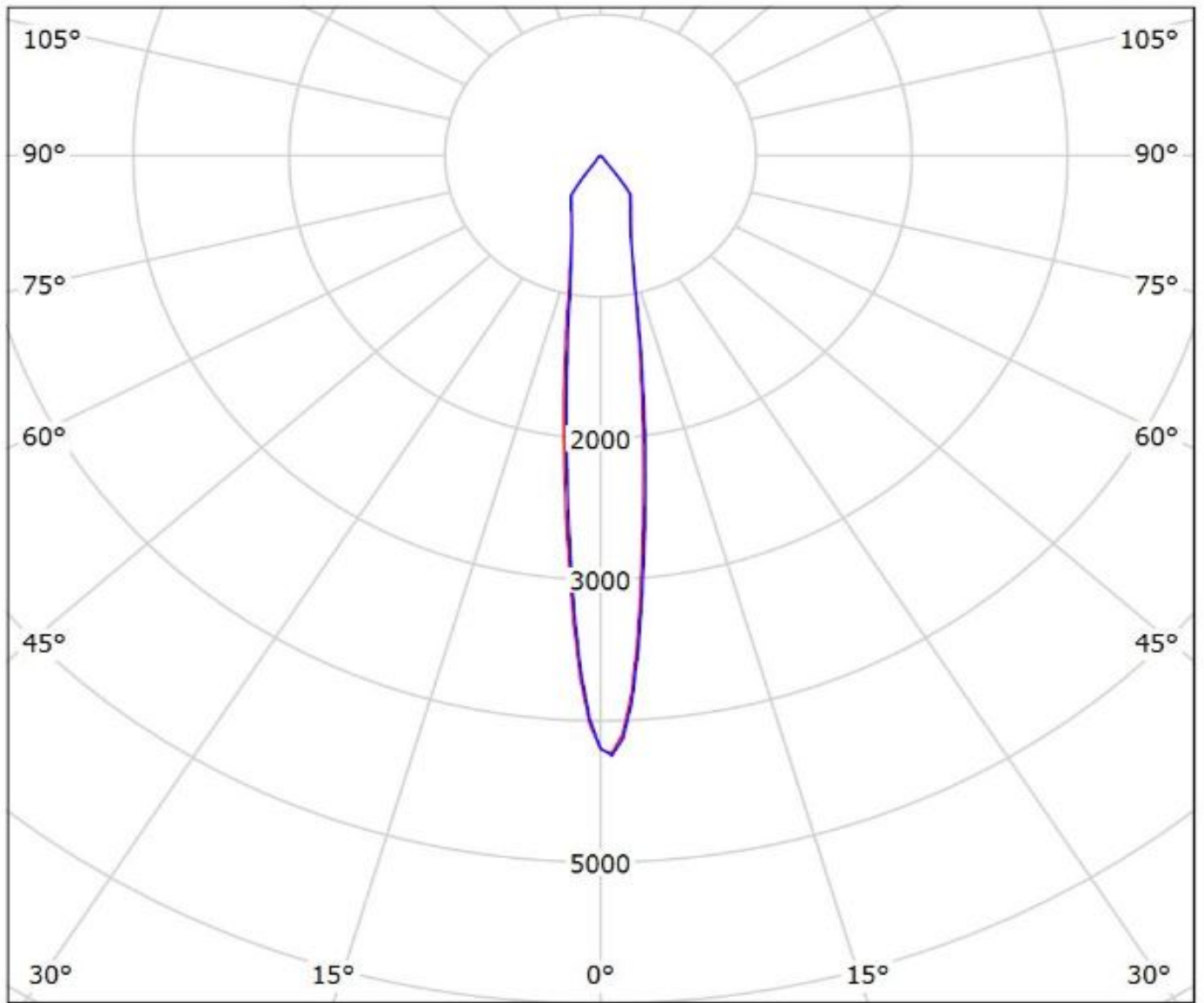


cd/klm

— C0 - C180 — C90 - C270

$\eta = 83\%$

Luminaire: Ledil FCN13706_ANGELA-M_(CLU024)_(433_Typ_L1) Citizen_CLU024_(433_Typ_L1)
(C13658_CLAMP-VERO13-18)_1071.07lm@250mA_P=8.43W_I=0.25A
Lamps: 1 x Citizen_CLU024_(433_Typ_L1)_(C13658_CLAMP-VERO13-18)
_1071.07lm@250mA_P=8.43W_I=0.25A



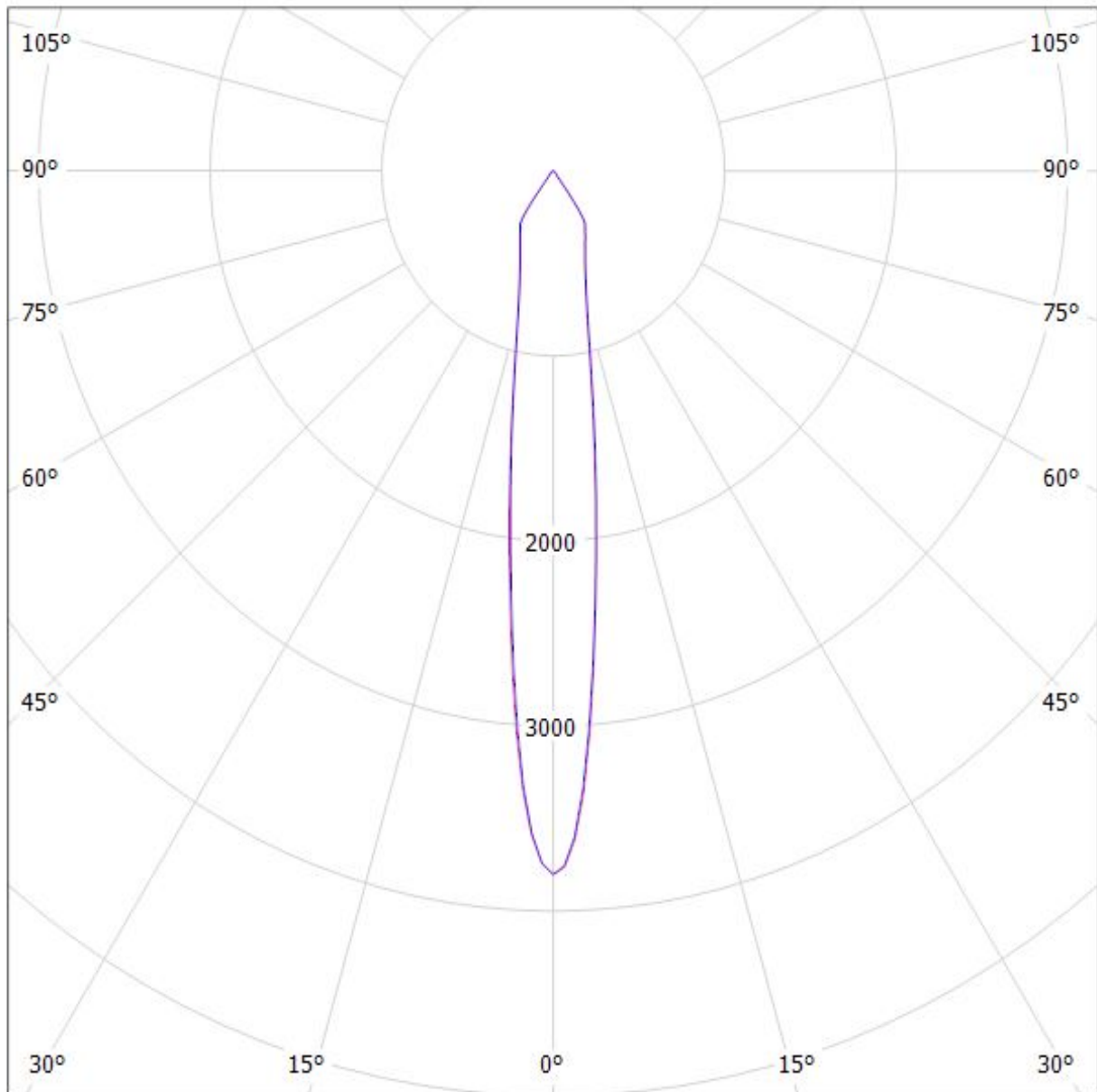
cd/klm

— C0 - C180 — C90 - C270

$\eta = 84\%$

Luminaire: Ledil FCN13706_ANGELA-M_(CXA1850)

Lamps: 1 x CREE_CXA1850_(CXA1850-30F-T4-N0Y-00001)_831.914lm@250mA_CCT=3000K_P=8.27W_l=0.25A



cd/klm

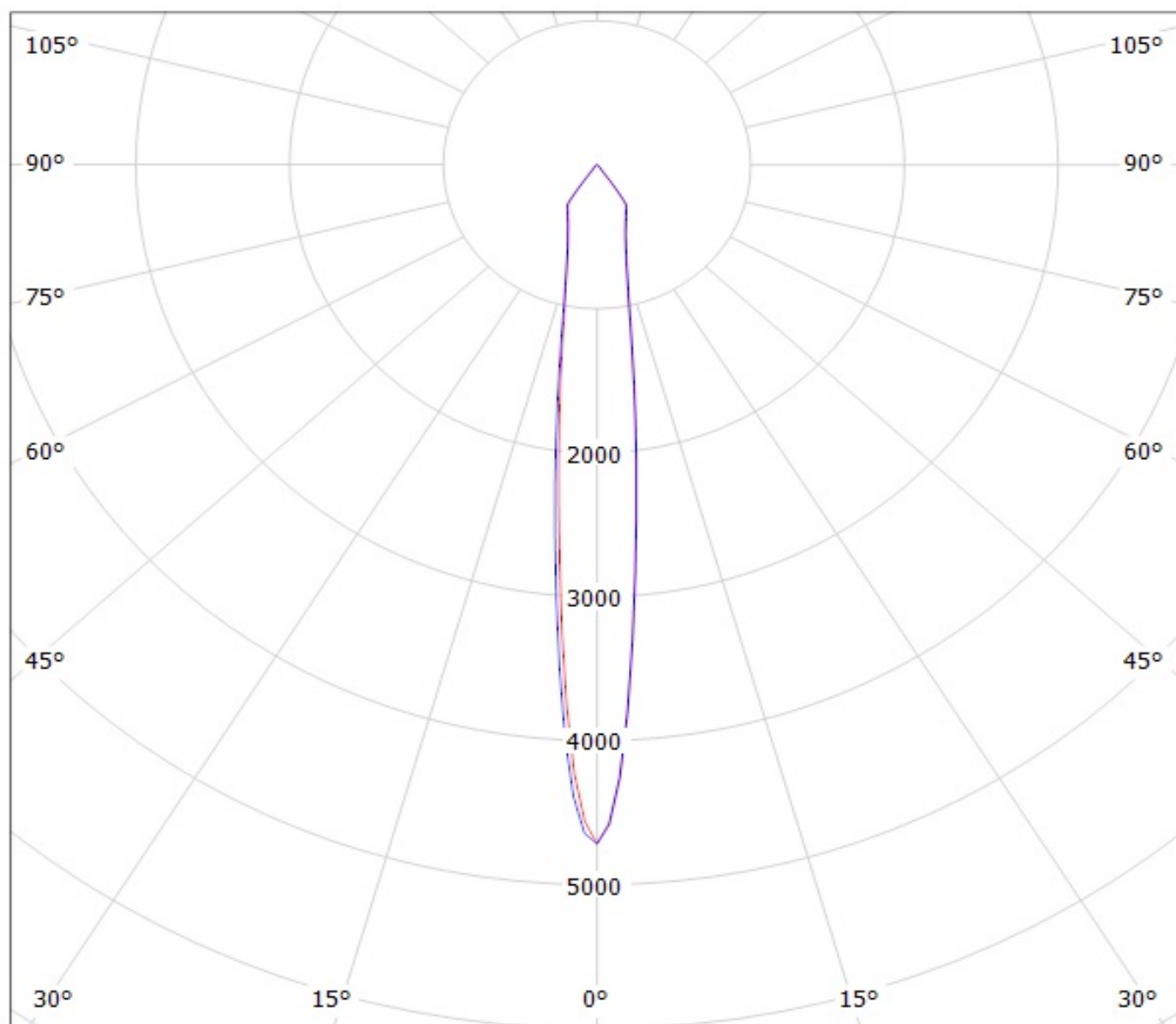
— C0 - C180

— C90 - C270

$\eta = 83\%$

Luminaire: LEDiL Oy FCN13706_ANGELA-M_(CXA1520)_ (441_Typ_L1)

Lamps: 1 x Cree_CXA1520_(CXA1520-30F-N4-00H-00001)_993.209lm@250mA_P=8.74575W_I=0.2499A



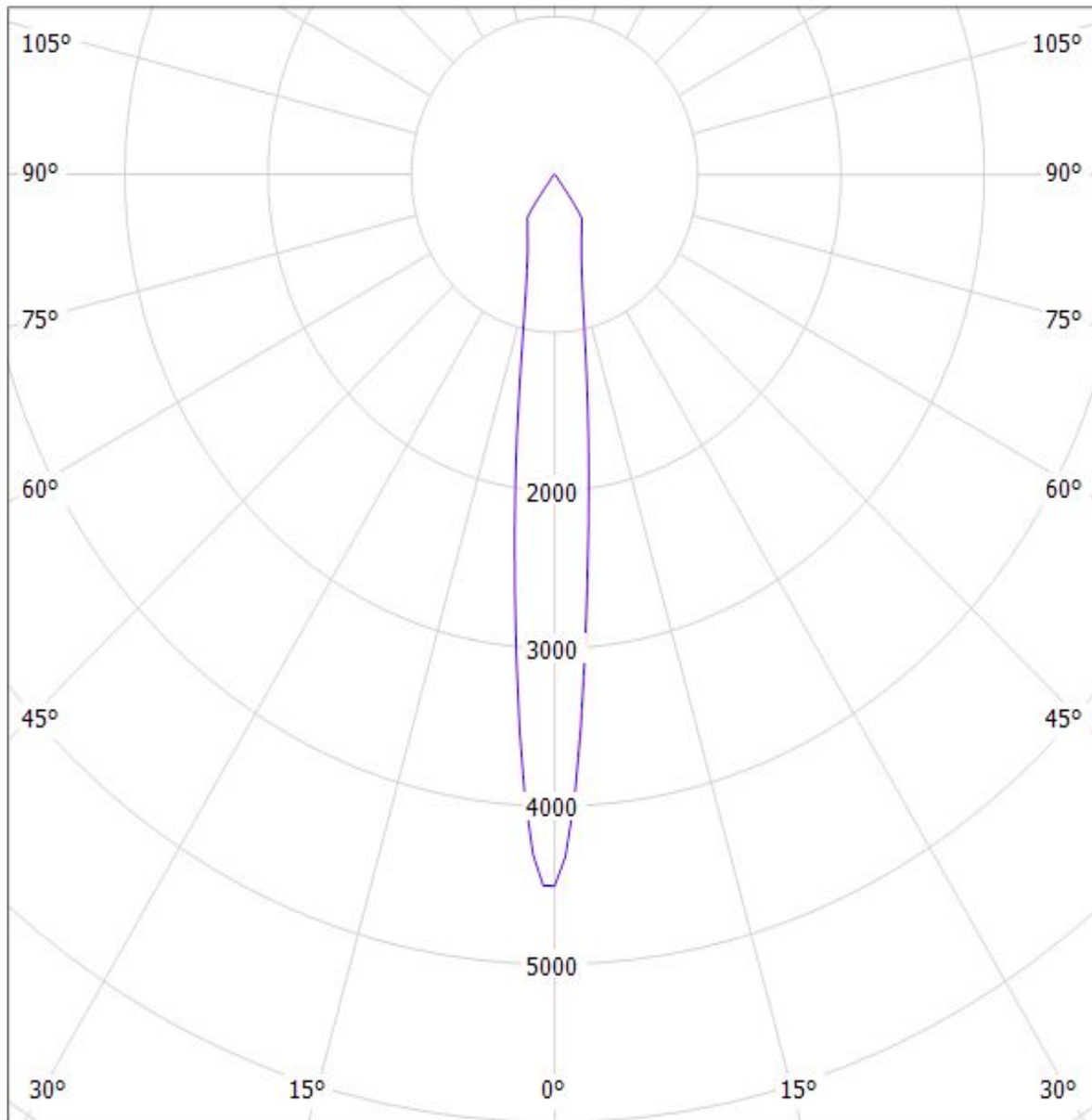
cd/klm

— C0 - C180

— C90 - C270

$\eta = 84\%$

Luminaire: LEDiL Oy FCN13706_ANGELA-M_(LUXEON_CoB_1203)_ (438_Typ_L1)_ (C13658_CLAMP-VERO13-18)
Lamps: 1 x LUXEON_CoB_1203_(438_Typ_L1)_ (C13658_CLAMP-VERO13-18)_984.561lm@250mA_P=8.6828W_I=0.25A



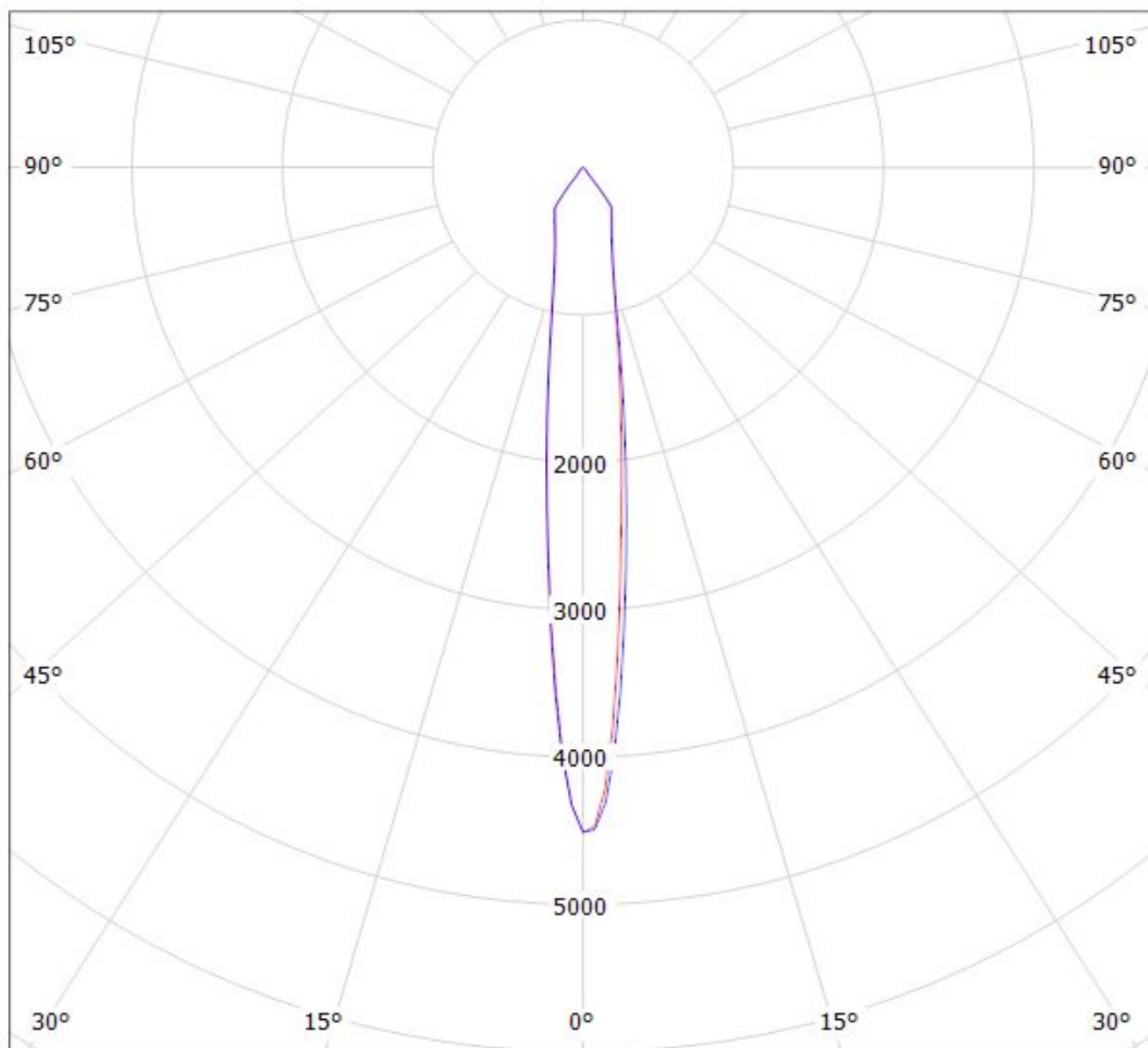
cd/klm

— C0 - C180 — C90 - C270

$\eta = 84\%$

Luminaire: LEDiL Oy FCN13706_ANGELA-M_(NFCLL036B)

Lamps: 1 x Nichia NFCLL036B (sm403J1300R8000)_541.131lm@100mA_CCT=4000K_P=3.34324W_I=0.100A



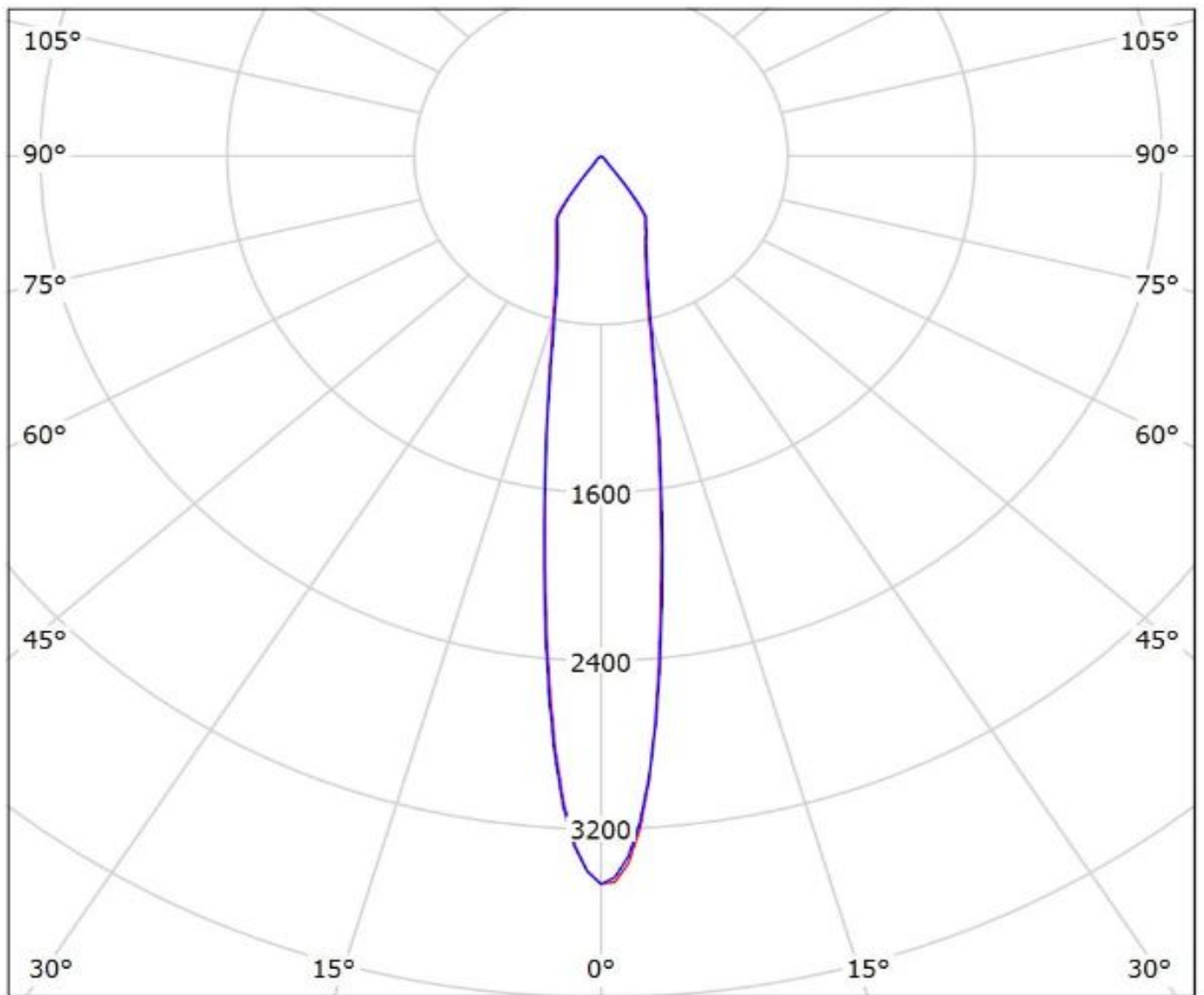
cd/klm

— C0 - C180

— C90 - C270

$\eta = 85\%$

Luminaire: Ledil FCN13706_ANGELA-M_(NFDxJ130B)
Lamps: 1 x Nichia_NFDxJ130B_(463 Typ L2)_C13658_CLAMP-
VERO13_1504.8lm@250mA_P=8.27W_I=0.25A



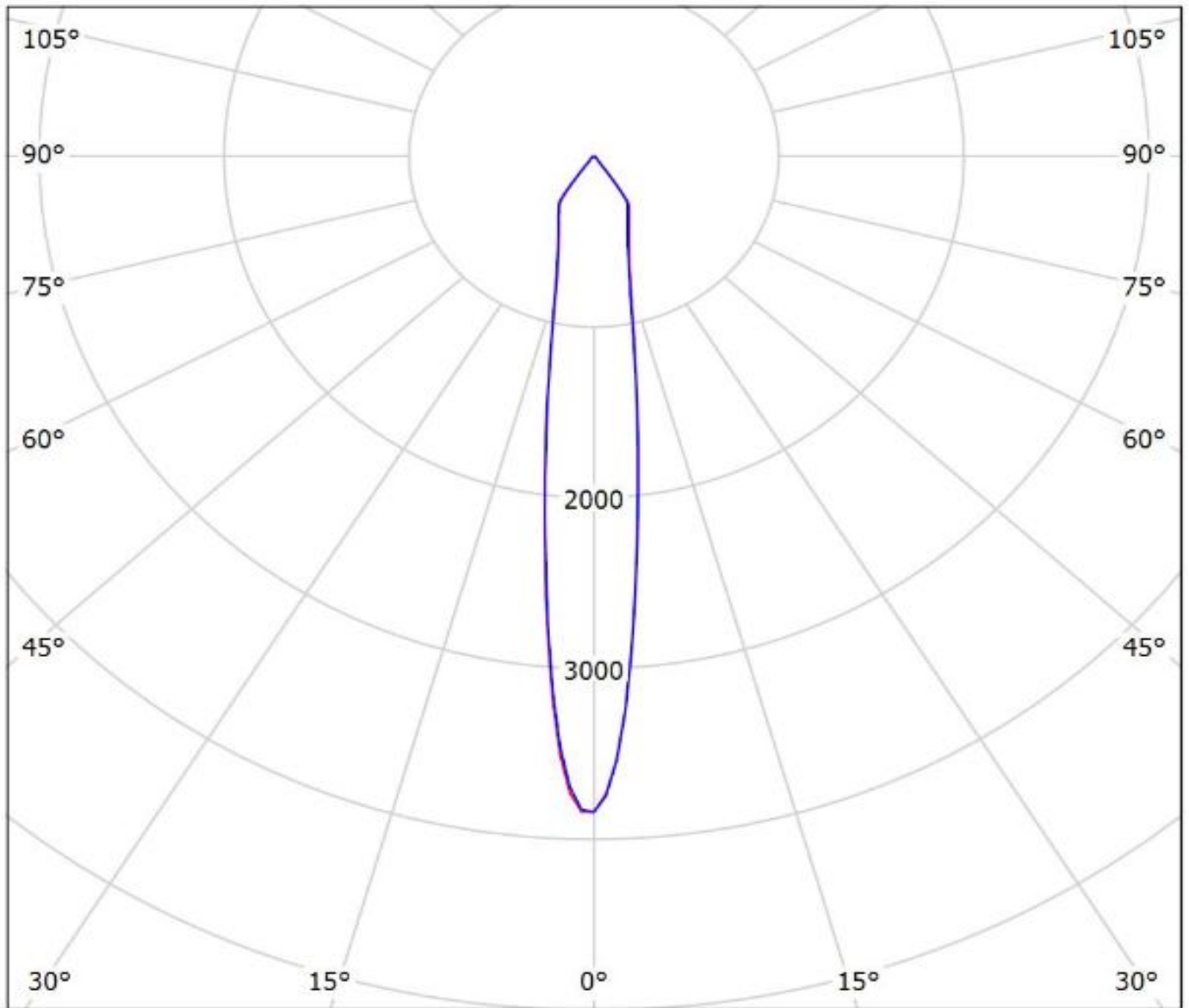
cd/klm

— C0 - C180 — C90 - C270

$\eta = 83\%$

Luminaire: Ledil FCN13706_ANGELA-M_(NFCLL060B)

Lamps: 1 x Nichia_NFCLL060B_(438_TYP_L1)_C13658_1356.65lm@250mA_P=8.375W_I=0.25A



cd/klm

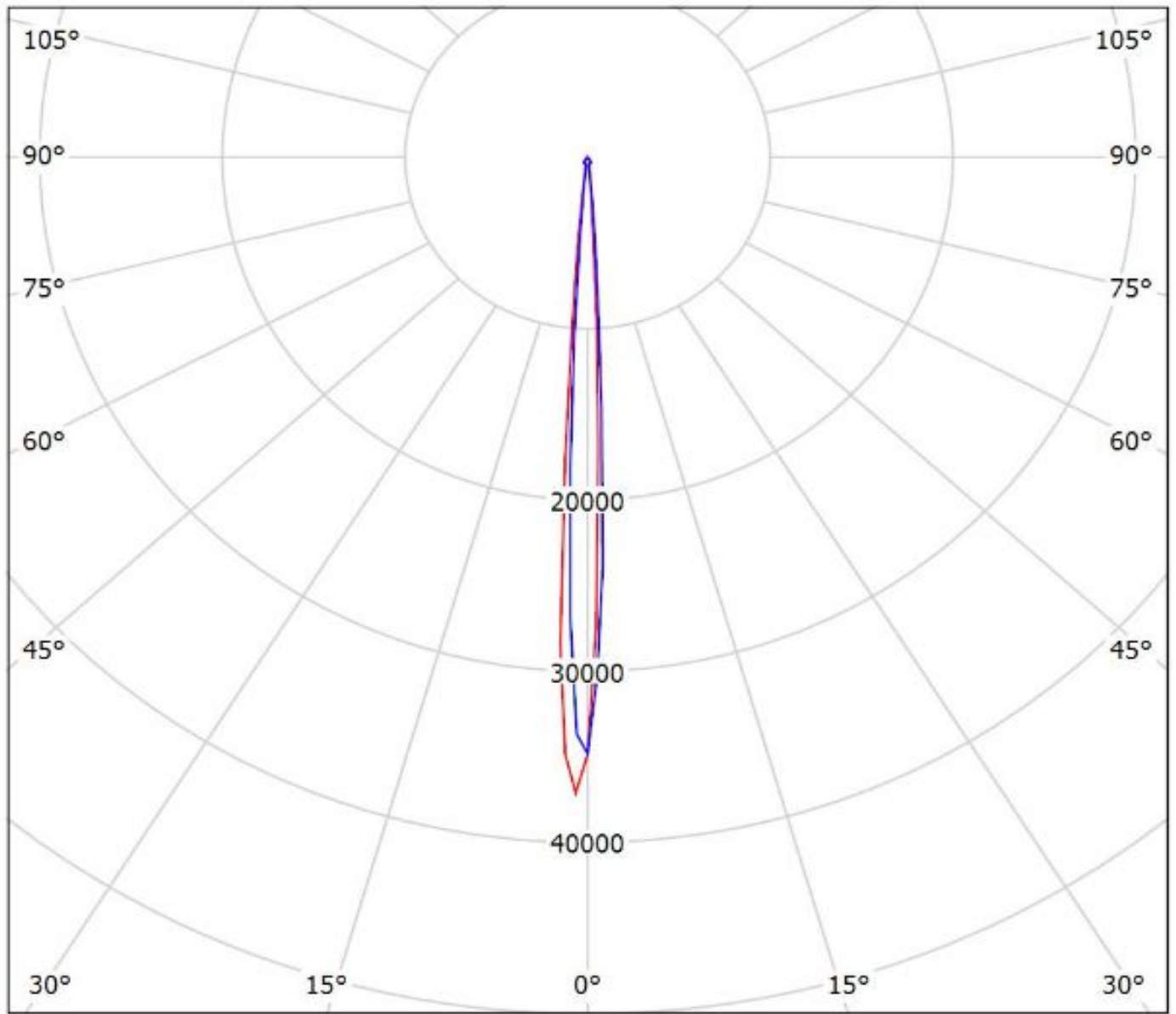
— C0 - C180

— C90 - C270

$\eta = 83\%$

Luminaire: Ledil FCN13705_ANGELA-S_(Soleriq_P9)

Lamps: 1 x Osram_Soleriq_P9_(GW_MAFJB1.EM)_972.417lm@250mA_CCT=4299K_P=6.9W_I=0.25A



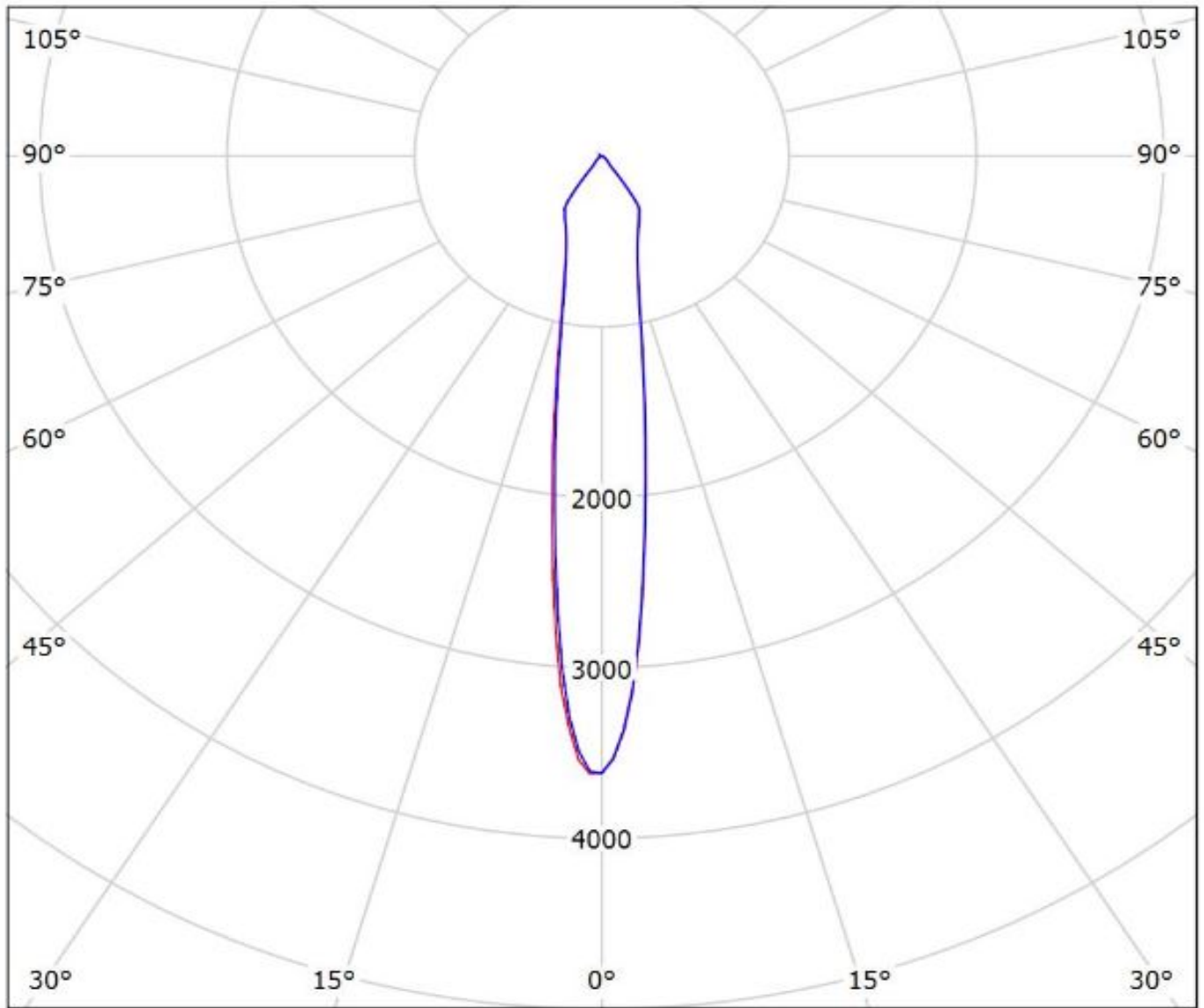
cd/klm

— C0 - C180 — C90 - C270

$\eta = 98\%$

Luminaire: Ledil FCN13706_ANGELA-M (Soleriq_P13)

Lamps: 1 x Osman_Soleriq_P13_1009.11lm@250mA_P=6.9385W_I=0.25A



cd/klm

— C0 - C180

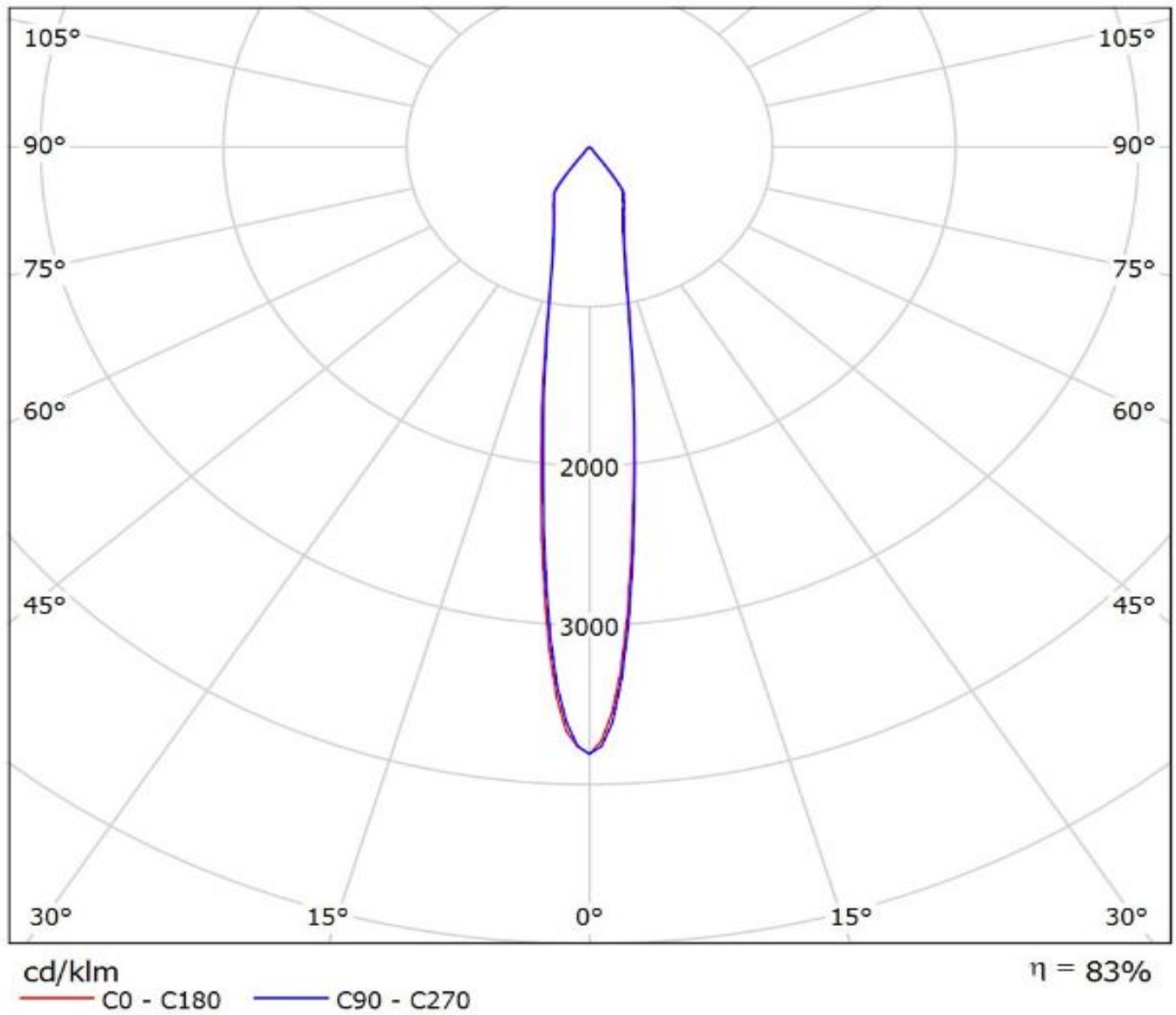
— C90 - C270

η = 88%

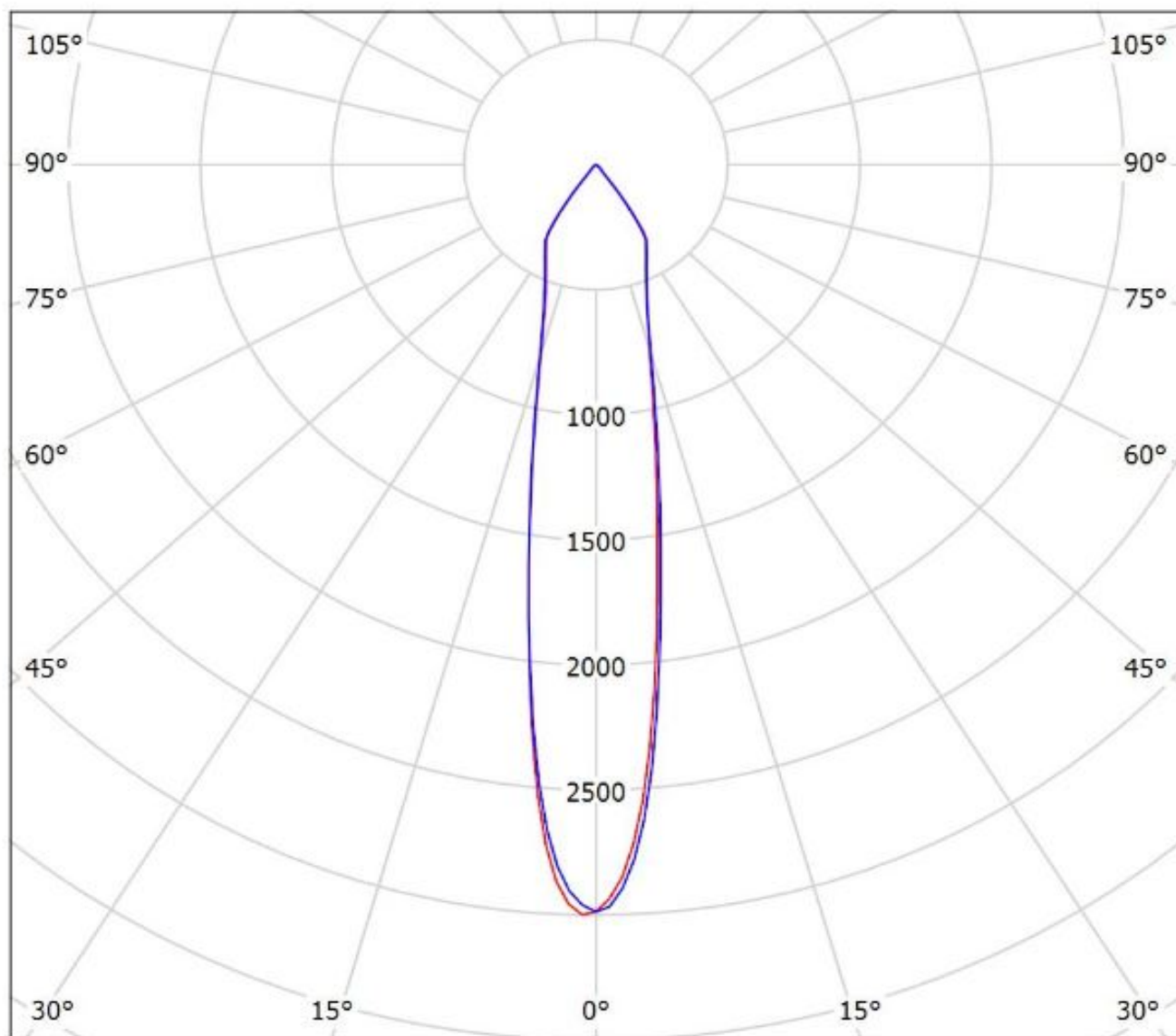
Ledil FCN13706_ANGELA-M_(Soleriq_S13) / LDC (Polar)

Luminaire: Ledil FCN13706_ANGELA-M_(Soleriq_S13)

Lamps: 1 x Osram_Soleriq_S13_(GW_KAGHB1.EM)_896.727lm@250mA_P=7.44679W_I=250mA



Luminaire: Ledil FCN13706_ANGELA-M_(450_Typ_L2)_(C13658_CLAMP-VERO13-18)_(LC040B)
Lamps: 1 x Samsung_LC040B_CCT=3000K_(SPHWW1HDNE25010101)_(450_Typ_L2)_(C13658_CLAMP-VERO13-18)_1109.31lm@250mA_P=8.2W_I=0.25A

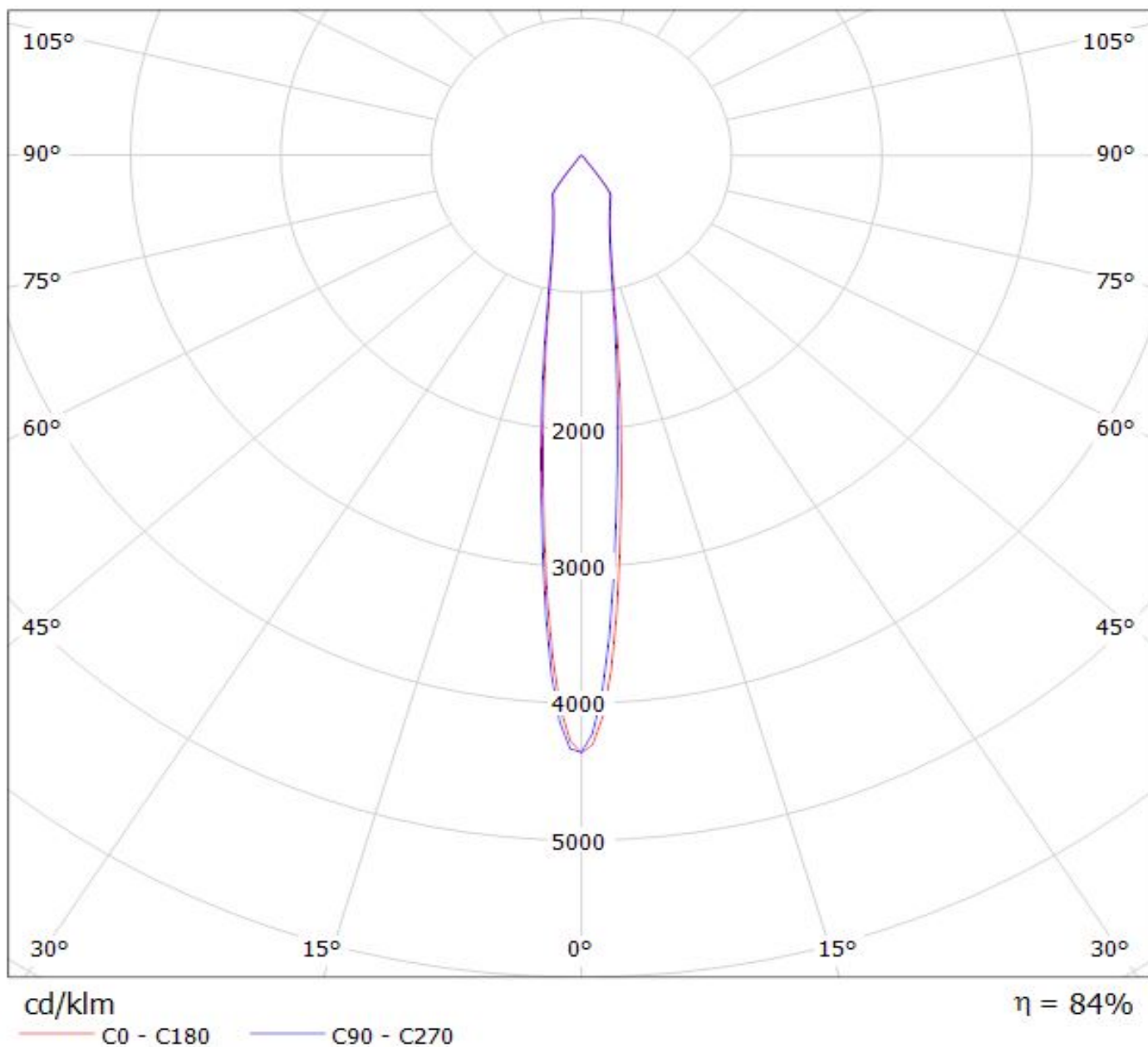


cd/klm

— C0 - C180 — C90 - C270

$\eta = 83\%$

Luminaire: LEDiL Oy FCN13706_ANGELA-M_(SLE-G5_LES-11)
Lamps: 1 x Tridonic_SLE-G5_LES-11_1137.55lm@250mA_P=8.4177W_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.