

DETAILS

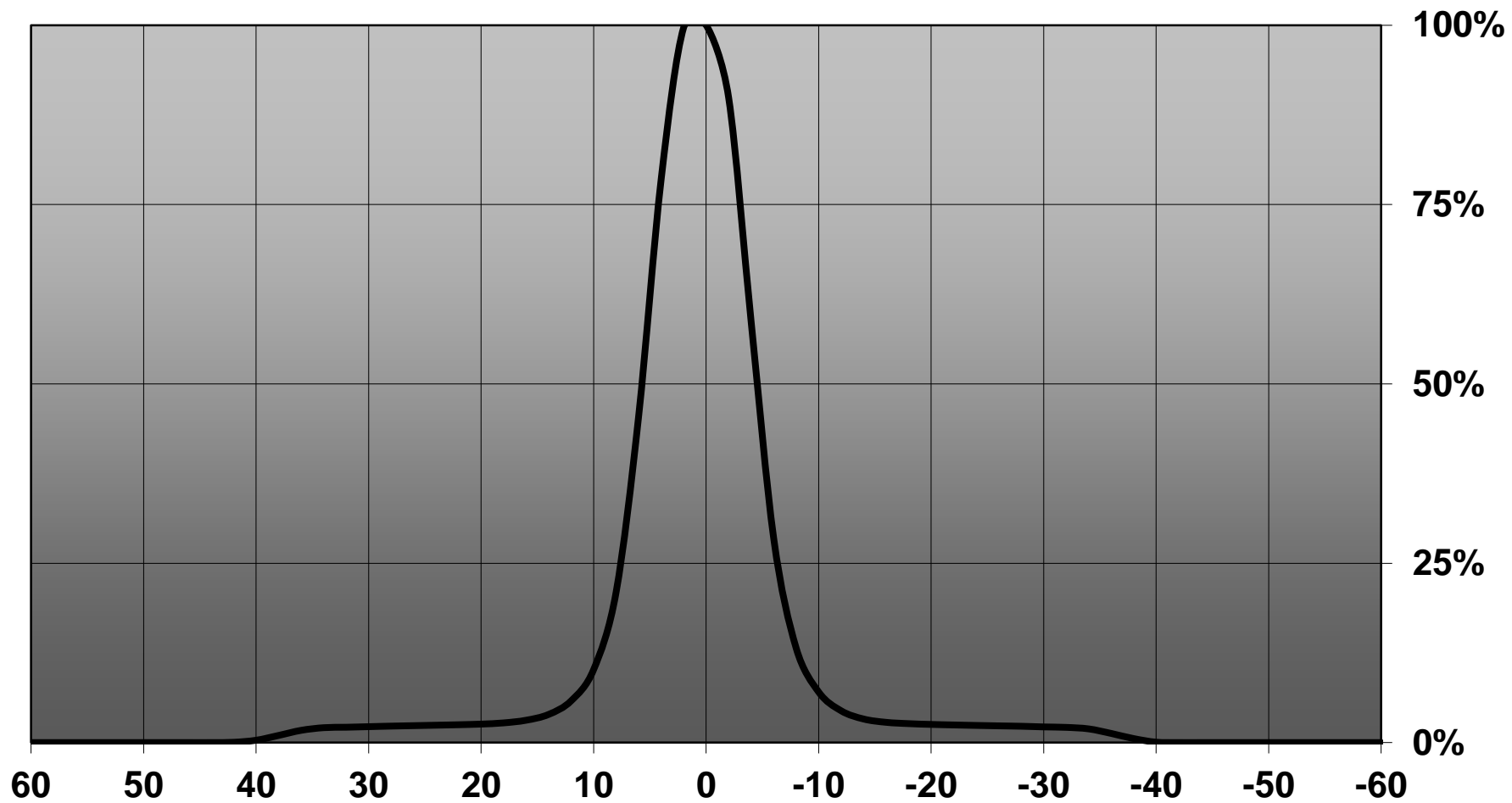
Product Number	FCN13705_ANGELA-S
Family	ANGELA
Type	RefPack
Color	metal
Diameter	119,5 mm
Height	79,31 mm
Style	round
Optic Material	
Holder Material	
Fastening	
Status	production ready
ROHS Compliant	Yes
Date Updated	3/11/2016



OPTICAL PROPERTIES

LED	Viewing Angle	Light Beam	Efficiency	cd/lm	Connector
VERO13	8 deg	Spot	94 %	22.480	LEDiL: LEDiL
VERO18	12 deg	Spot	93 %	11.000	LEDiL: LEDiL
V15 Gen6	10 deg	Spot	92 %	15.300	Bender Wirth: 456 Typ L2
V10 Gen7	sim: 10	Spot	sim: 91 %	sim: 15.300	Bender Wirth: 434 Typ L1
CLU720/721	7 deg	Spot	88 %	26.100	Bender Wirth: 433 Typ L1
CLL03x/CLU03x	10 deg	Spot	88 %	15.000	Bender Wirth: 433 Typ L1
CLU700/701	5 deg	Spot	88 %	57.800	Bender Wirth: 434 Typ L1
CLL02x/CLU02x (LES10)	6 deg	Spot	90 %	34.100	Bender Wirth: 434 Typ L1
CXA/B 1816 & CXA/B 1820 & CXA 1850	8 deg	Spot	89 %	22.600	Bender Wirth: 437 Typ L1
CXA/B 15xx	5.8 deg	Spot	92 %	37.600	Bender Wirth: 441 Typ L1
LUXEON CoB 1202/1203	6 deg	Spot	91 %	36.000	Bender Wirth: 438 Typ L1
CXM-14	sim: 10	Spot	sim: 88 %	sim: 15.000	Bender Wirth: 433 Typ L1
CXM-9	sim: 6	Spot	sim: 90 %	sim: 34.100	Bender Wirth: 434 Typ L1
COB L-Type (LES 9)	6 deg	Spot	93 %	39.000	Bender Wirth: 438 Typ L1
COB J-Type	9 deg	Spot	89 %	15.200	Bender Wirth: 463 Typ L2
COB L-Type (LES 11)	7 deg	Spot	89 %	24.300	Bender Wirth: 438 Typ L1
Soleriq P13	9 deg	Spot	94 %	17.000	Bender Wirth: 437 Typ L1
Soleriq S13	8 deg	Spot	89 %	21.000	Bender Wirth: 437 Typ L1
LC026B/LC040B	11 deg	Spot	8 %	10.700	Bender Wirth: 450 Typ L2
ZC12/18	sim: 10	Spot	sim: 88 %	sim: 15.000	Bender Wirth: 433 Typ L1
ZC4/6	sim: 6	Spot	sim: 90 %	sim: 34.100	Bender Wirth: 434 Typ L1
SLE G5 LES11	7 deg	Spot	91 %	30.100	Bender Wirth: 434 Typ L1

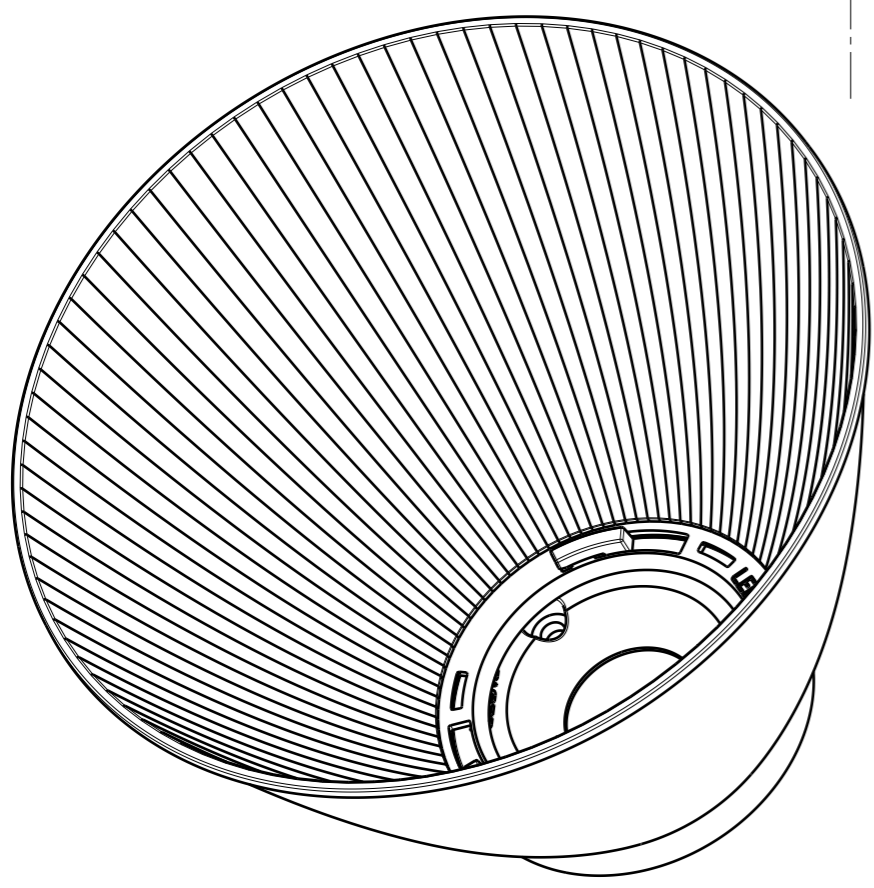
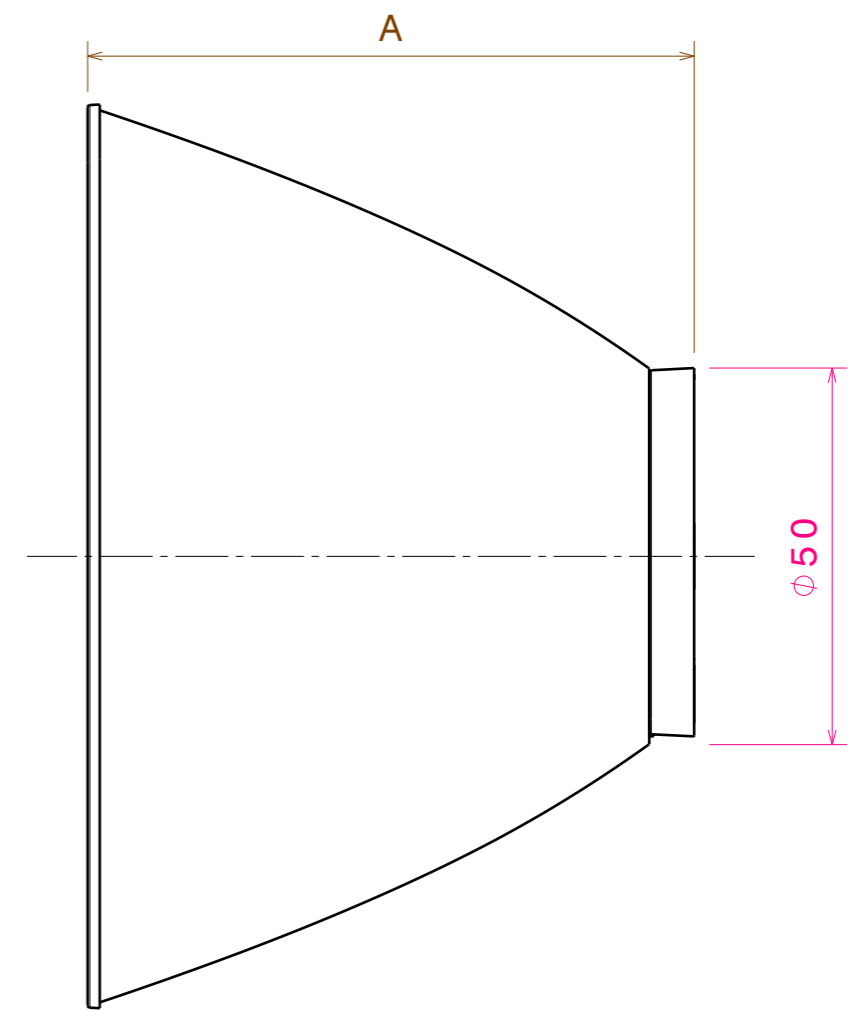
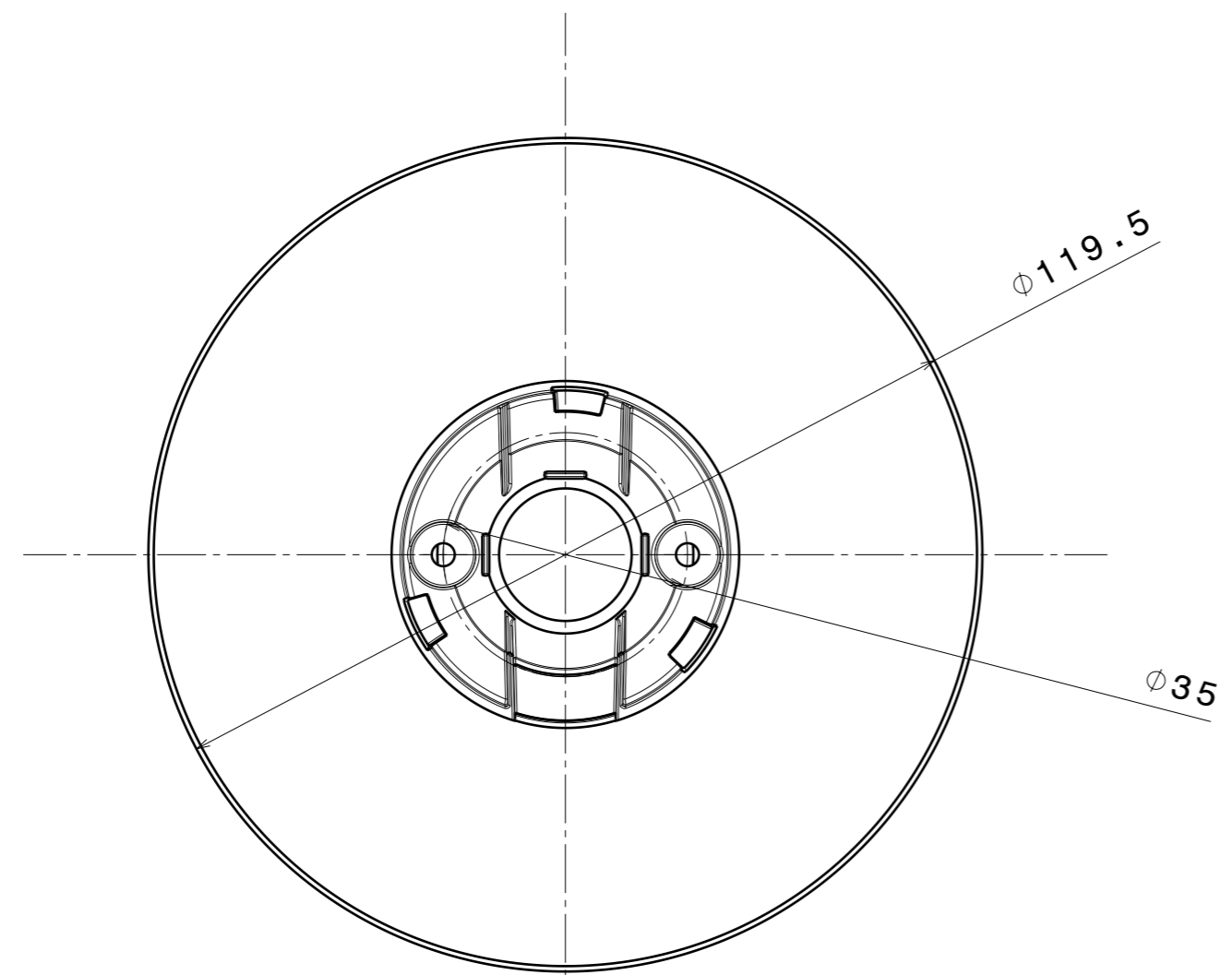
Relative intensity of FCN13705_ANGELA-S_(V15)



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

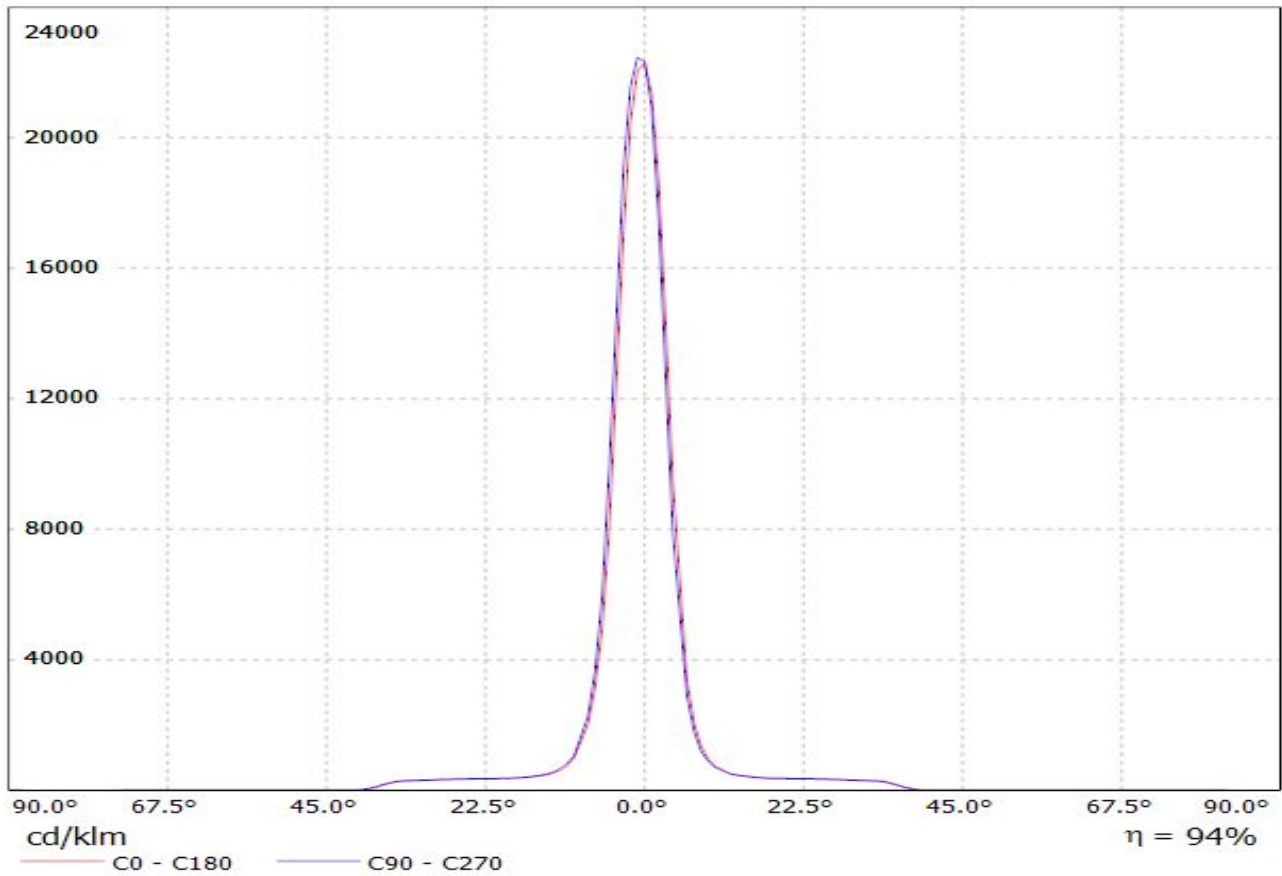
This drawing is the property of LEDiL Oy. It may not be reproduced, copied or communicated without a written agreement with LEDiL Oy."

SIZE	PART NUMBER
A3	-

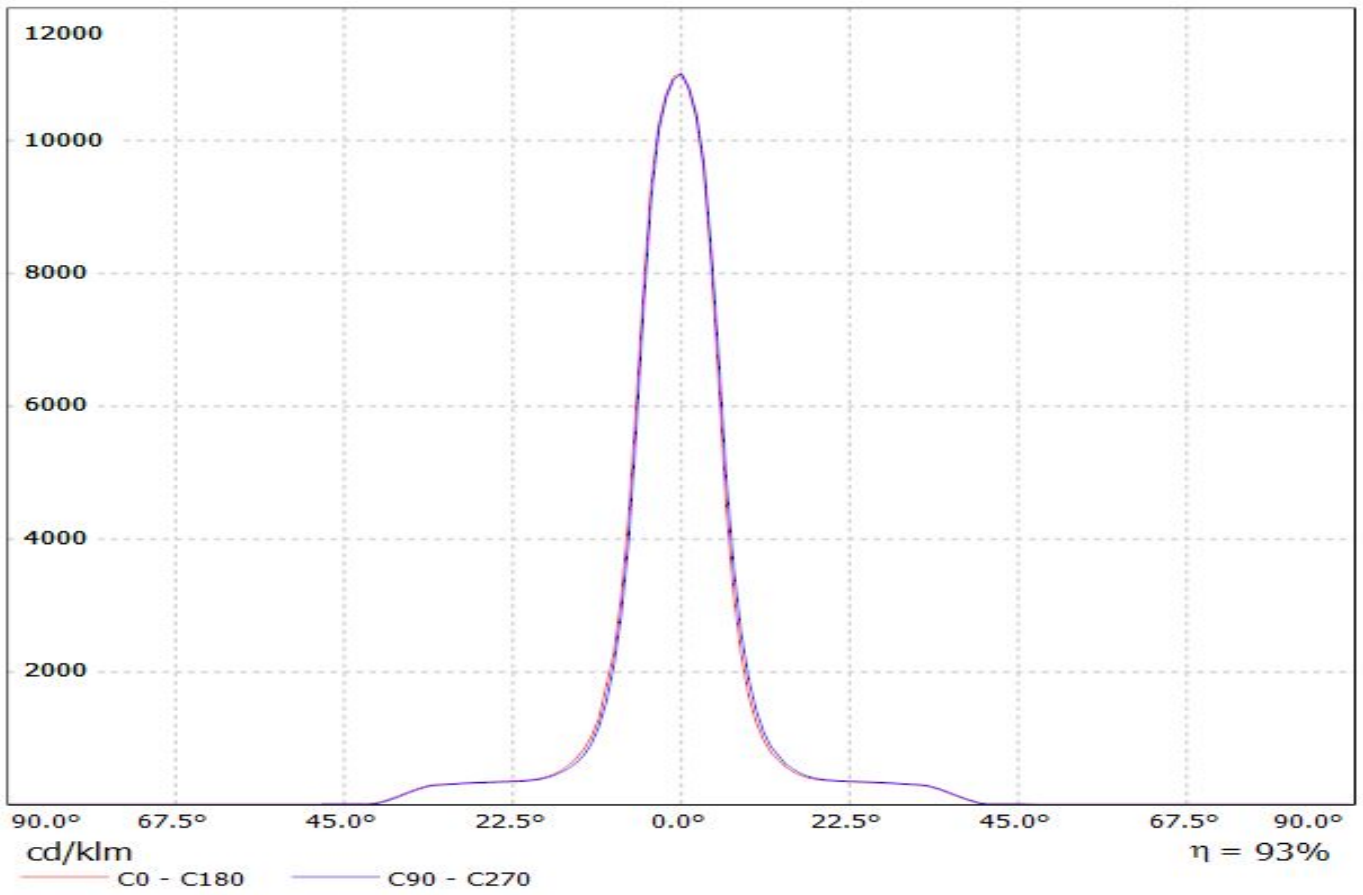
SCALE	1:1	WEIGHT	-	SHEET	1/1
-------	-----	--------	---	-------	-----

H G B A

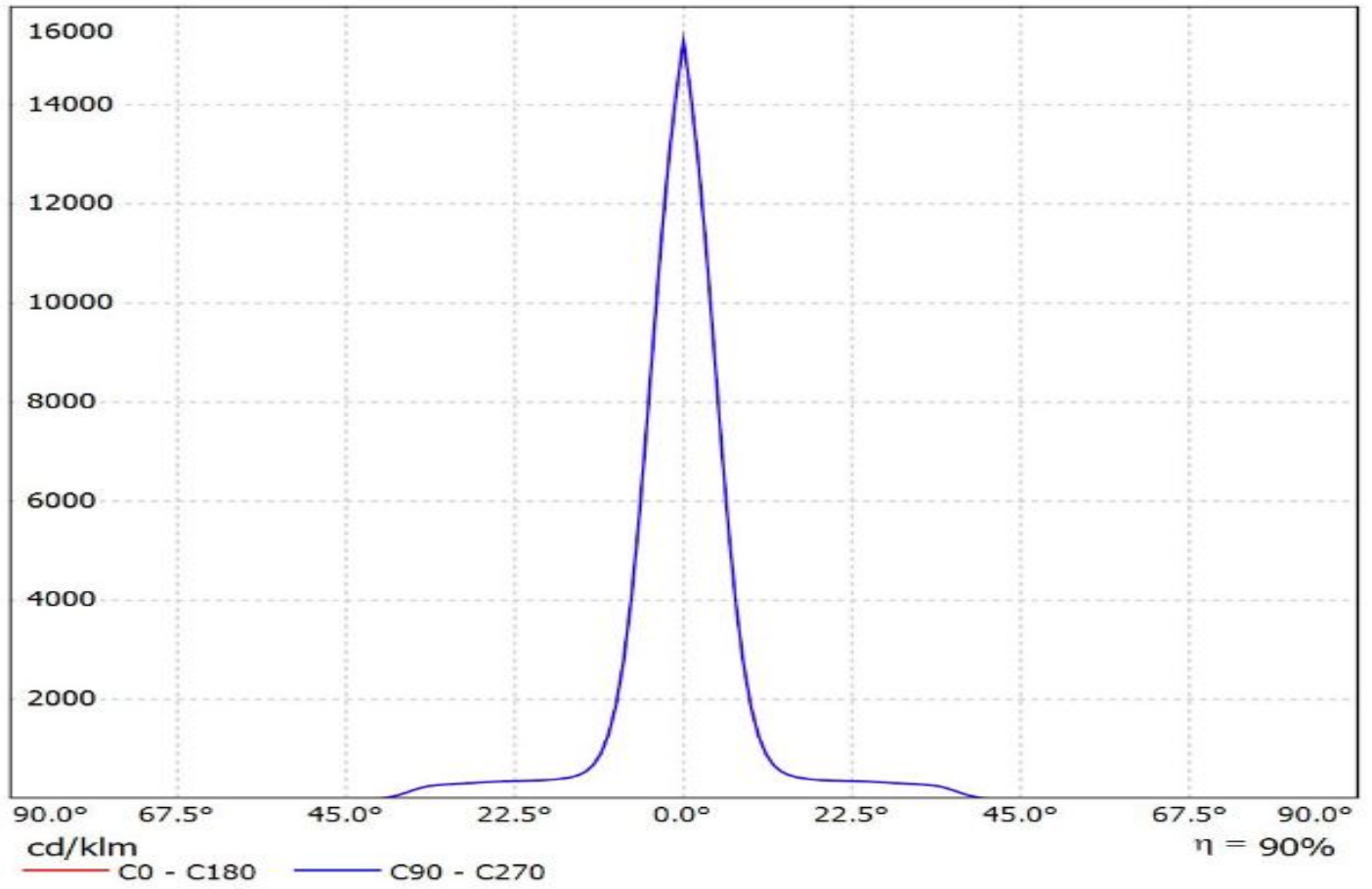
Luminaire: LEDiL Oy FCN13705_ANGELA-S_(VERO13)
Lamps: 1 x Bridgelux_VERO13_(BXRC-40E2000C)_1069.14lm@250mA_P=7.64944W_I=249.9mA



Luminaire: LEDiL Oy FCN13705_ANGELA-S_(VERO18) Eff.93.1%
Lamps: 1 x Bridgelux_VERO18_891.528lm@250mA_P=6.81802W_I=249.9mA



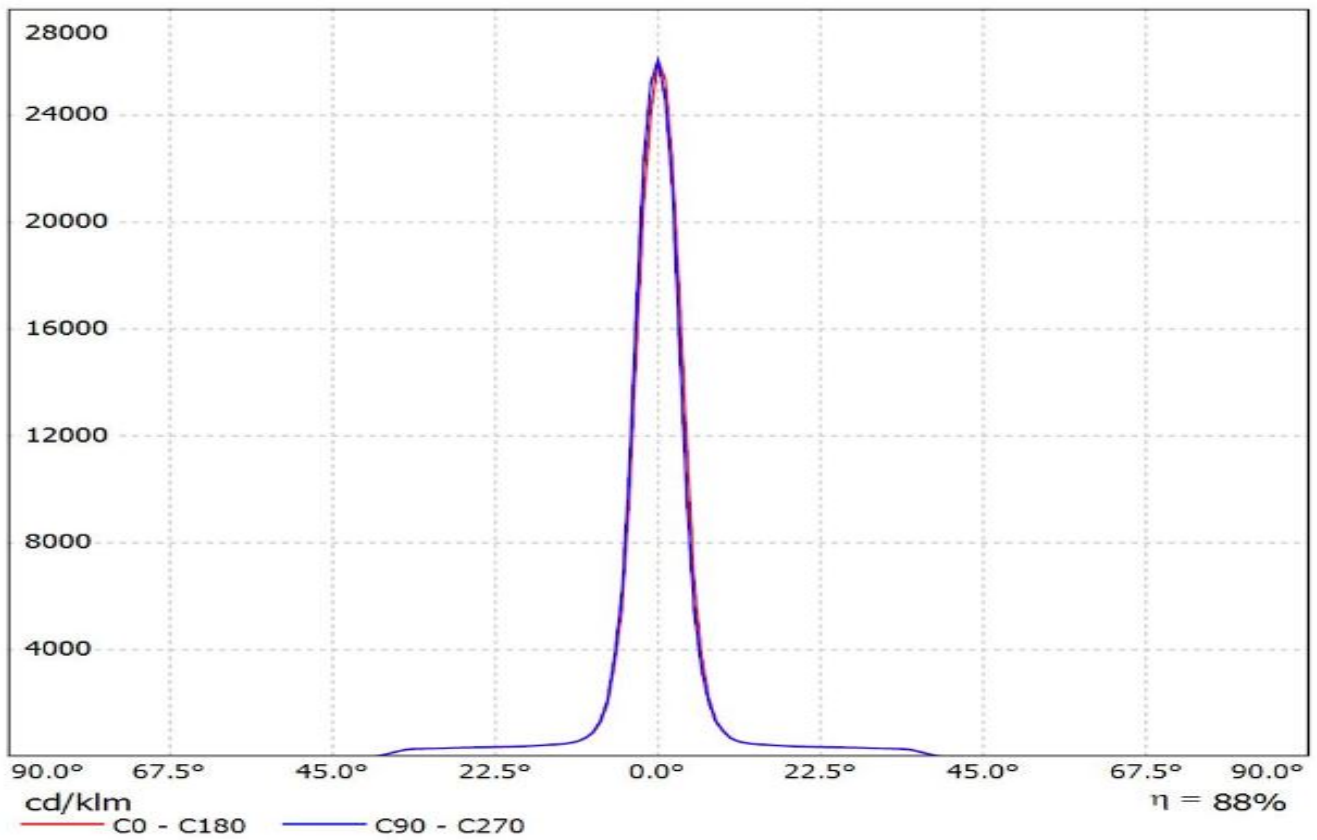
Luminaire: Ledil Oy FCN13705_ANGELA-S+_B+W_434_TypL1_BRIDGELUX_V10_Gen7_SIMULATED
Lamps: 1 x BRIDGELUX V10 Gen7



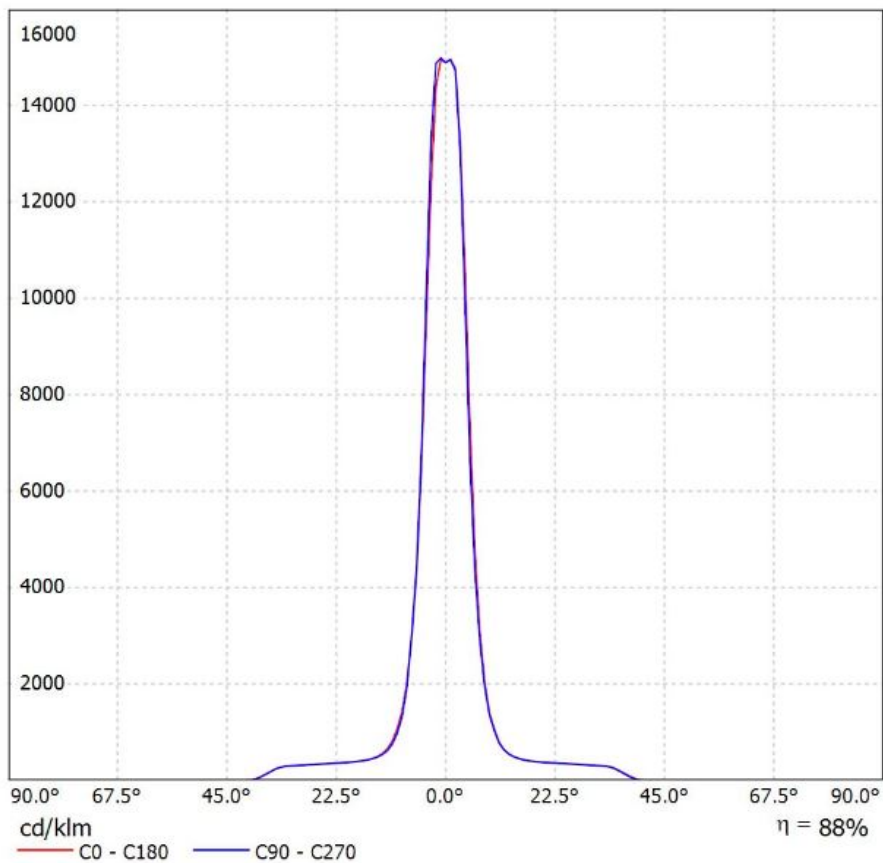
Ledil FCN13705_ANGELA-S_(CLU720)_(433_Typ_L1) / LDC (Linear)

Luminaire: Ledil FCN13705_ANGELA-S_(CLU720)_(433_Typ_L1)

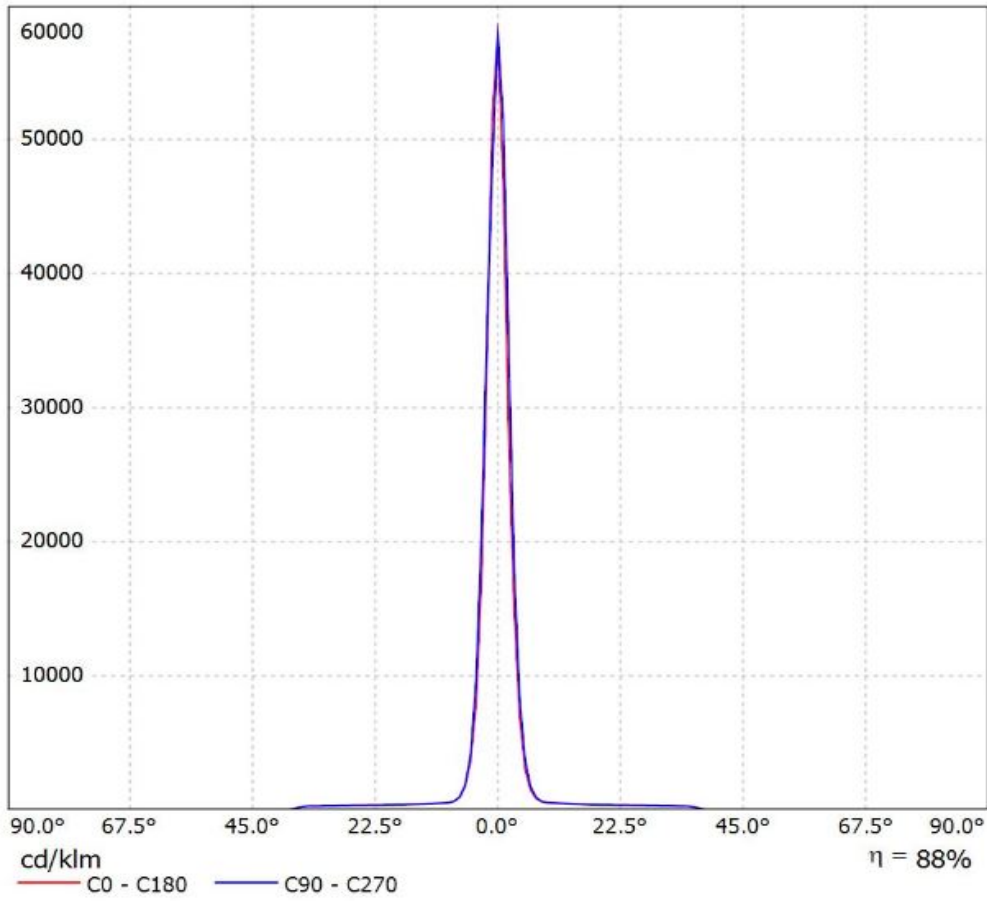
Lamps: 1 x Citizen_CLU720_(CLU720-1206B8-273M2G1)_1225.89lm@250mA_P=8.3W_I=0.25A



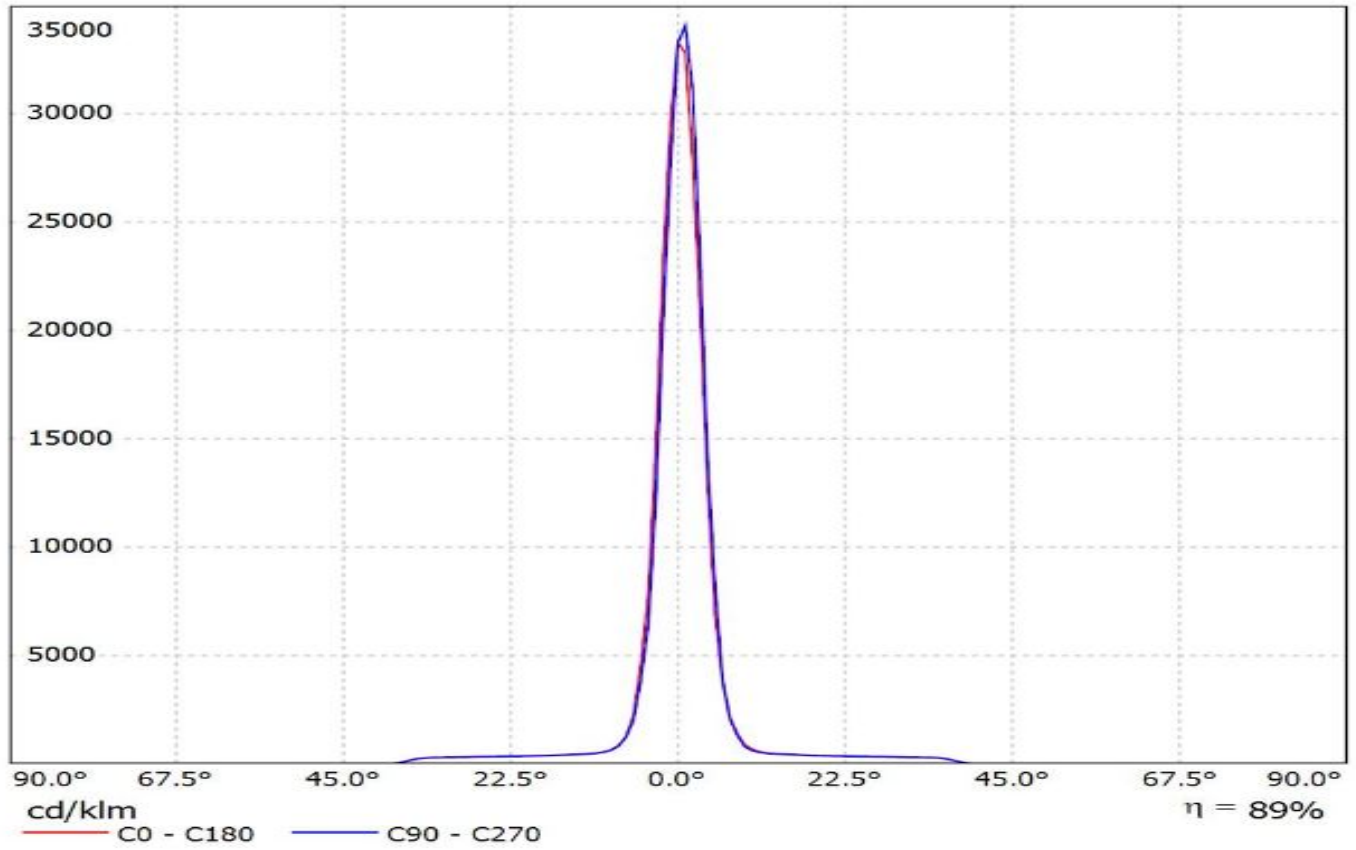
Luminaire: Ledil FCN13705_ANGELA-S_(CLU034)_ (433_Typ_L1)_ (C13658) Citizen_CLU034_(CLU034-1205B8-303M1A2)_1180.79lm@250mA_P=8.50075W_I=0.25A
Lamps: 1 x Citizen_CLU034_(433_Typ_L1)_ (C13658)_1173.16lm@250mA_P=8.475W_I=0.25A



Luminaire: Ledil FCN13705_ANGELA-S_(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

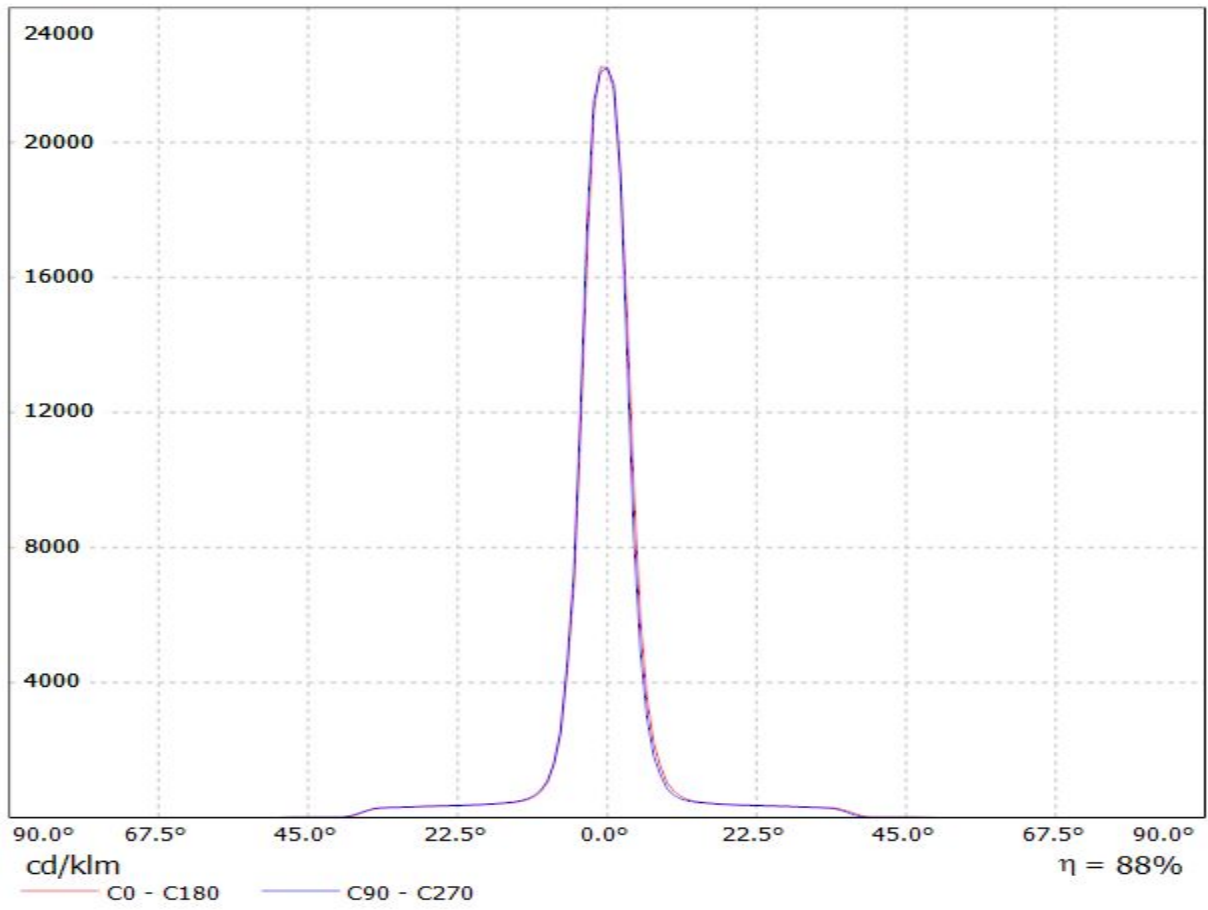


Luminaire: Ledil FCN13705_ANGELA-S_(CLU024) Citizen_CLU024_(434_Typ_L1)_(C13658_CLAMP-VERO13-18)_1077.47lm@250mA_P=8.57W_I=0.25A
Lamps: 1 x Citizen_CLU024_(434_Typ_L1)_(C13658_CLAMP-VERO13-18)_1077.47lm@250mA_P=8.57W_I=0.25A



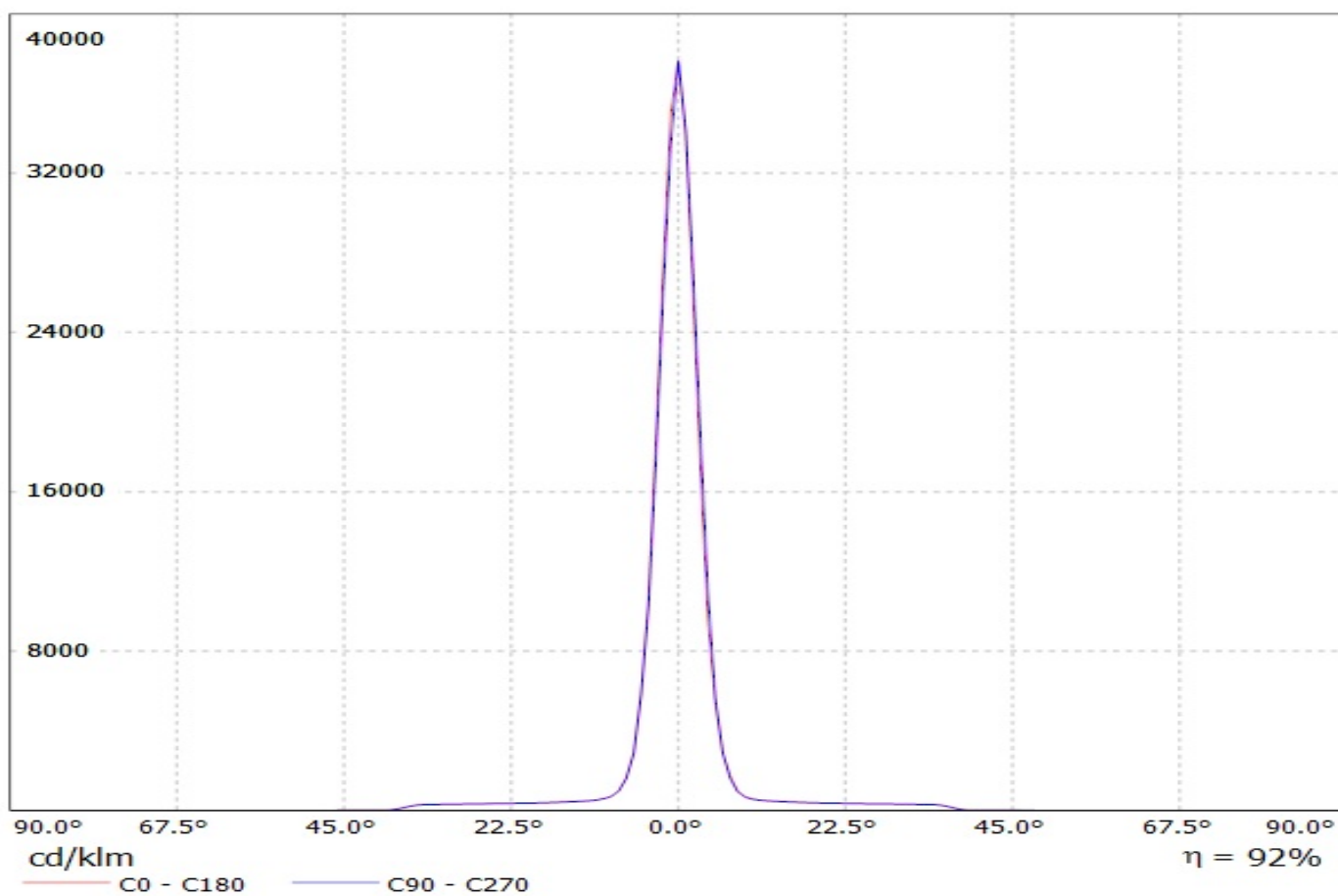
Luminaire: Ledil FCN13705_ANGELA-S_(CXA1850)

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

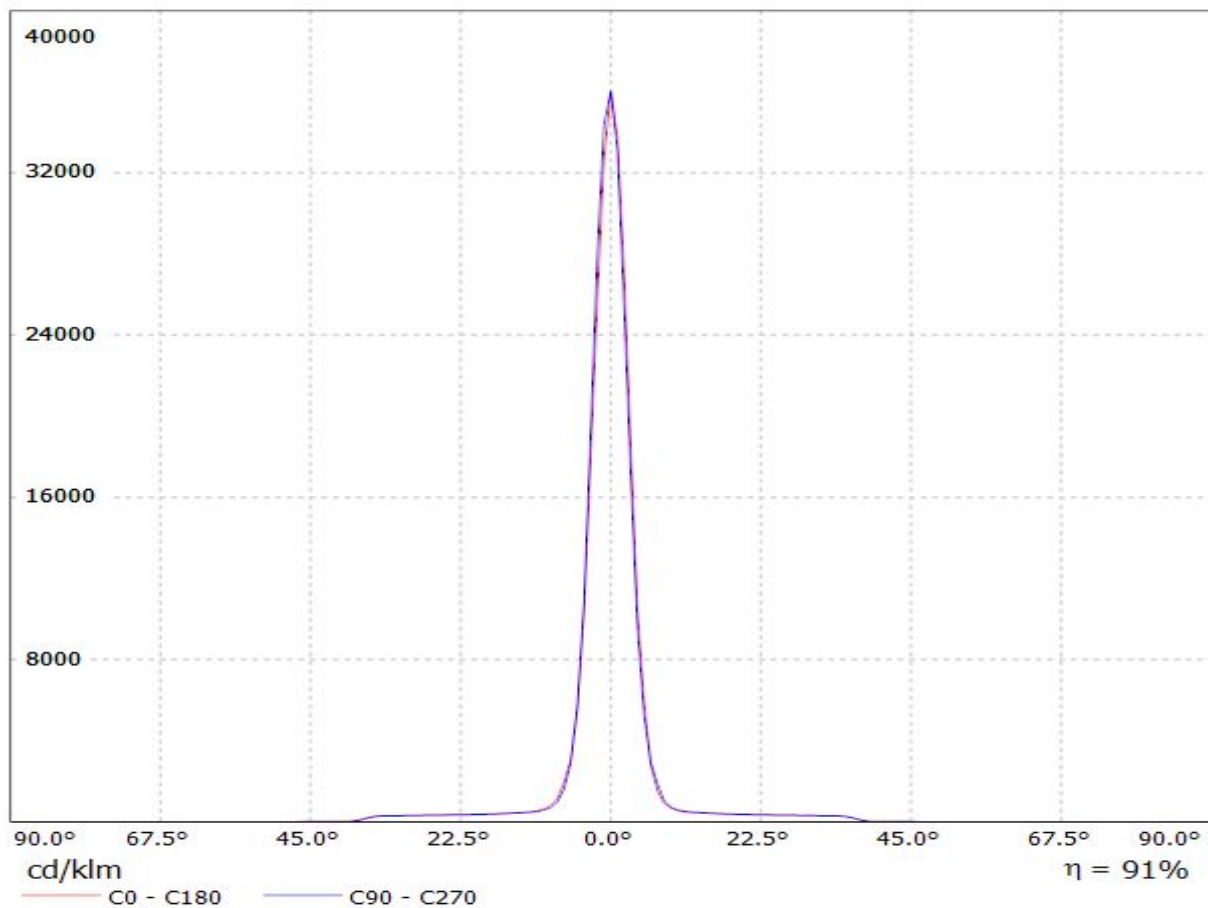


Luminaire: LEDiL Oy FCN13705_ANGELA-S_(CXA1520)_(441_Typ_L1)

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

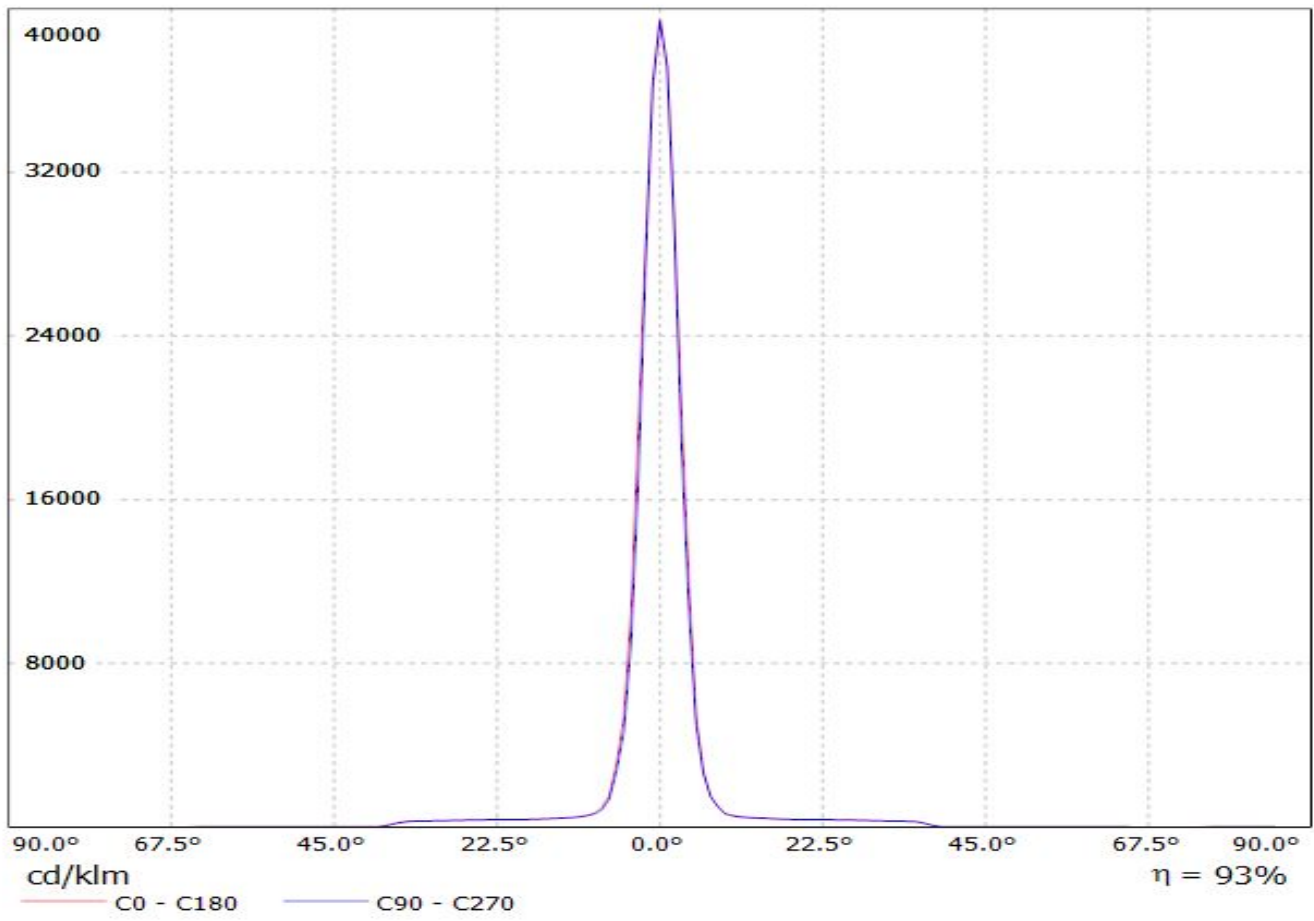


Luminaire: LEDiL Oy FCN13705_ANGELA-S_(LUXEON_CoB_1203)_ (438_Typ_L1)_ (C13658_CLAMP-VERO13-18)
Lamps: 1 x LUXEON_CoB_1203_(438_Typ_L1)_ (C13658_CLAMP-VERO13-18)_984.561lm@250mA_P=8.6828W_I=0.25A

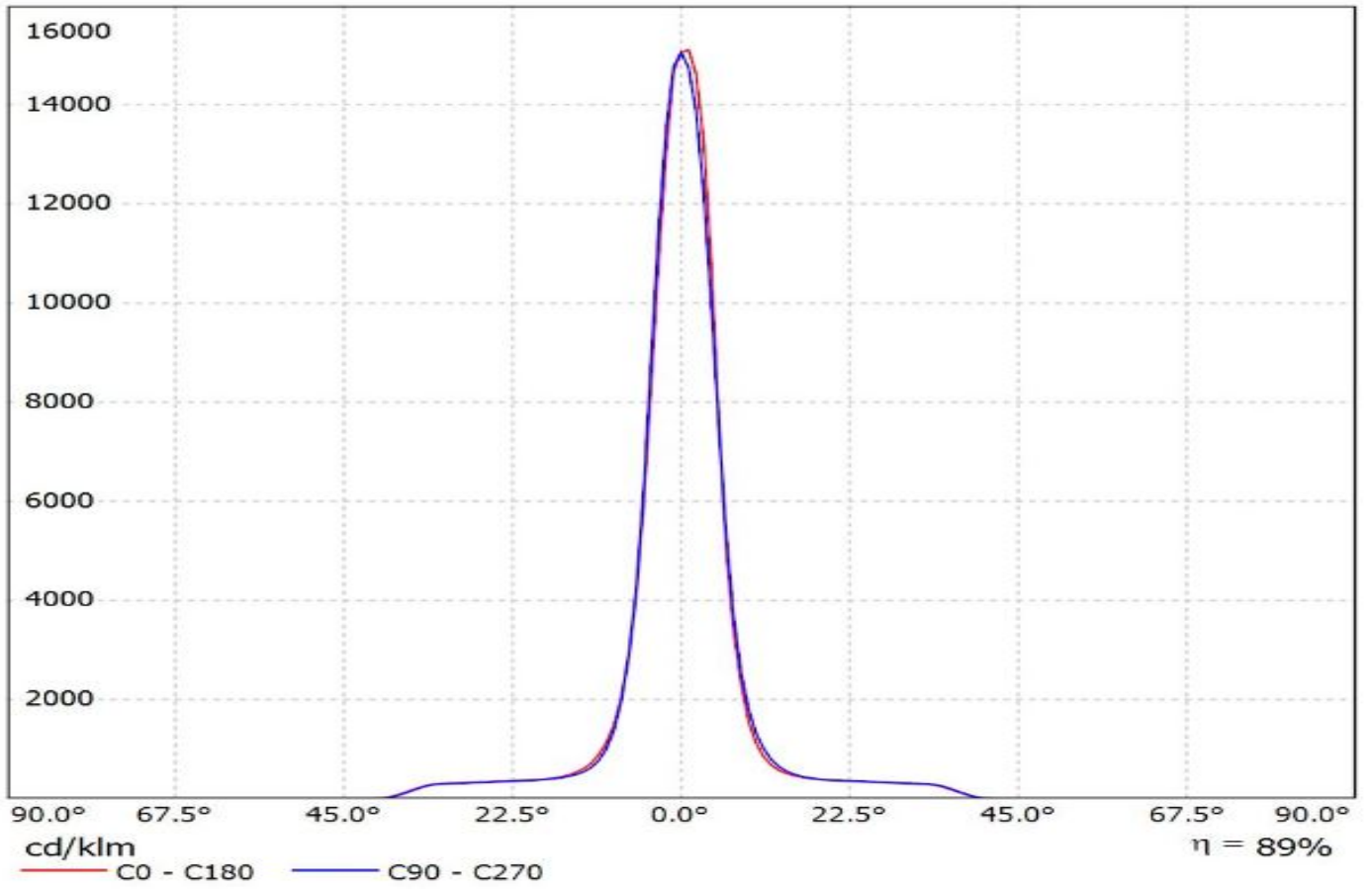


Luminaire: LEDiL Oy FCN13705_ANGELA-S_(NFCLL036B)

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

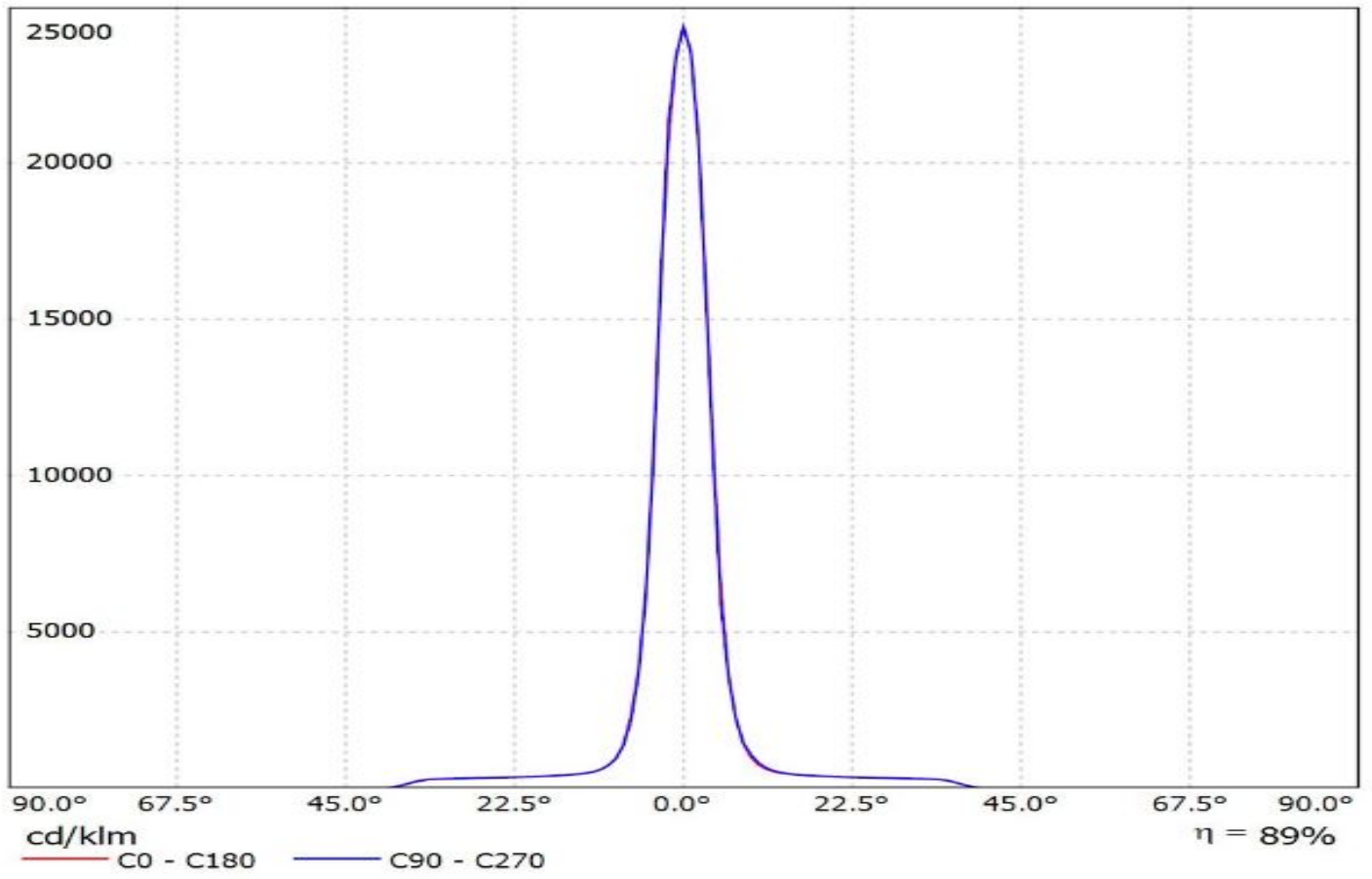


Luminaire: Ledil FCN13705_ANGELA-S_(NFDxJ130B)
Lamps: 1 x Nichia_NFDxJ130B_(463 Typ L2)_C13658_CLAMP-
VERO13_1504.8lm@250mA_P=8.27W_I=0.25A



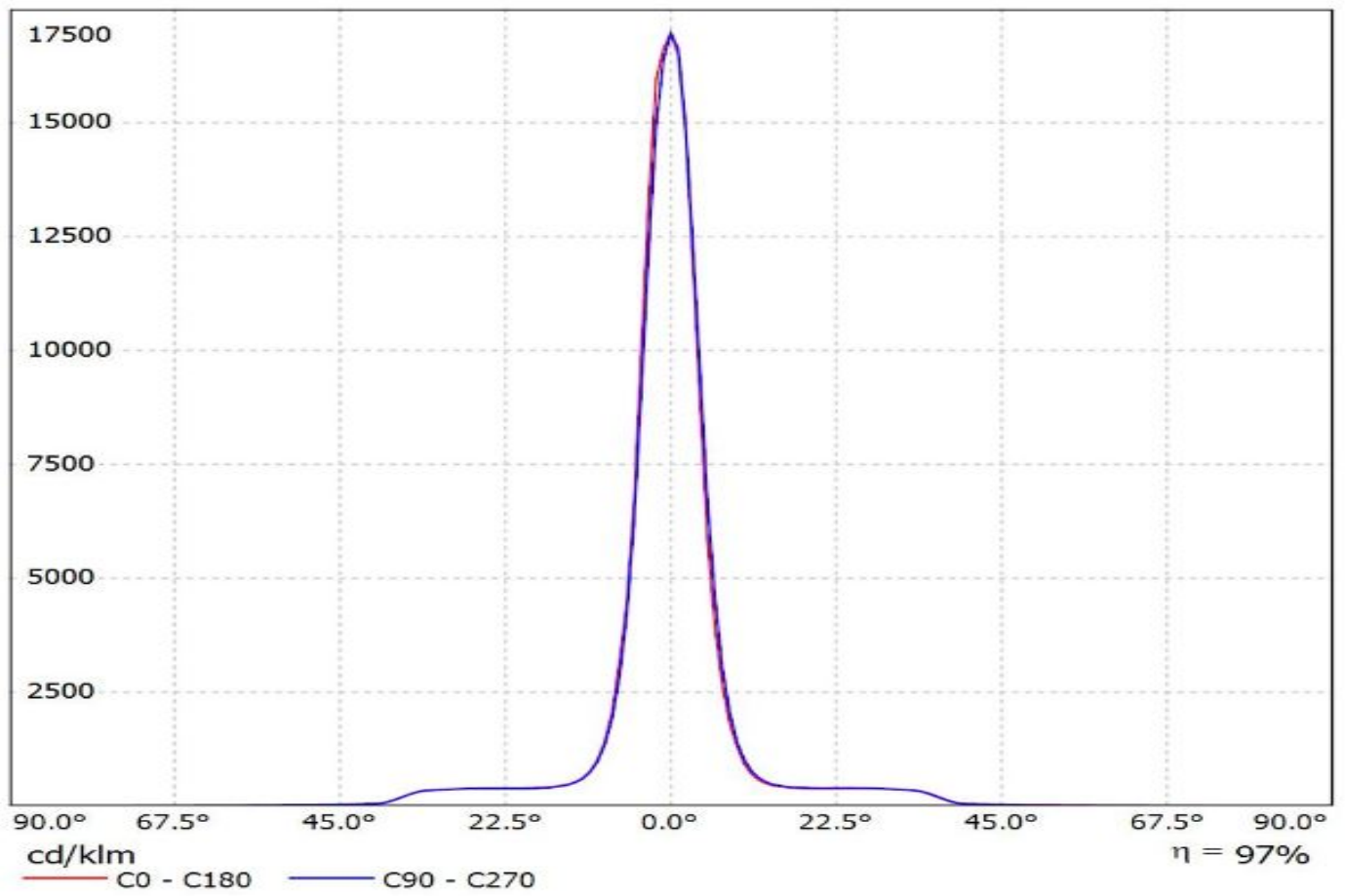
Luminaire: Ledil FCN13705_ANGELA-S_(NFCLL060B)

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



Luminaire: Ledil FCN13705_ANGELA-S_(Soleriq_P13)

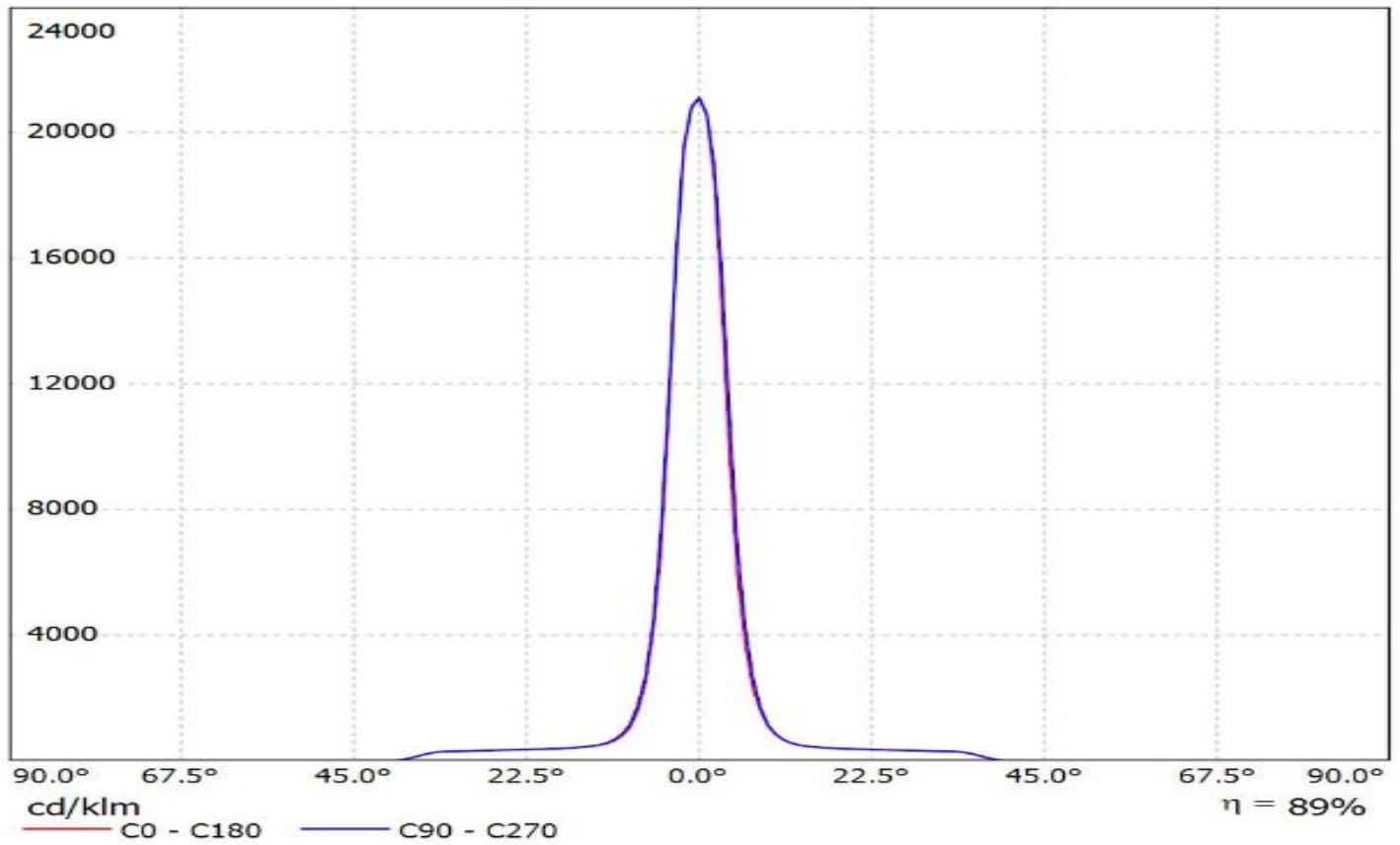
Lamps: 1 x Osman_Soleriq_P13_1009.11lm@250mA_P=6.9385W_I=0.25A



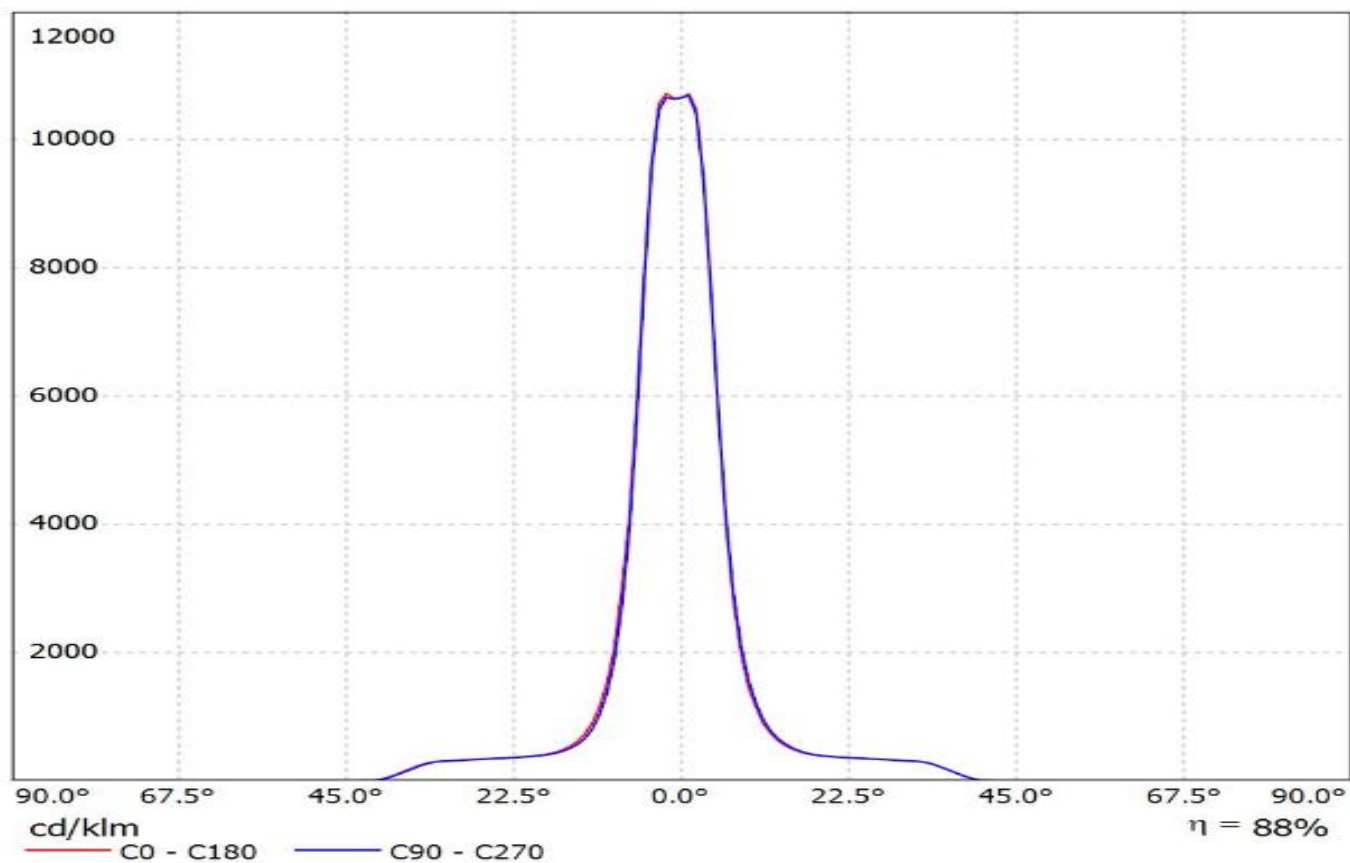
Ledil FCN13705_ANGELA-S_(Soleriq_S13) / LDC (Linear)

Luminaire: Ledil FCN13705_ANGELA-S_(Soleriq_S13)

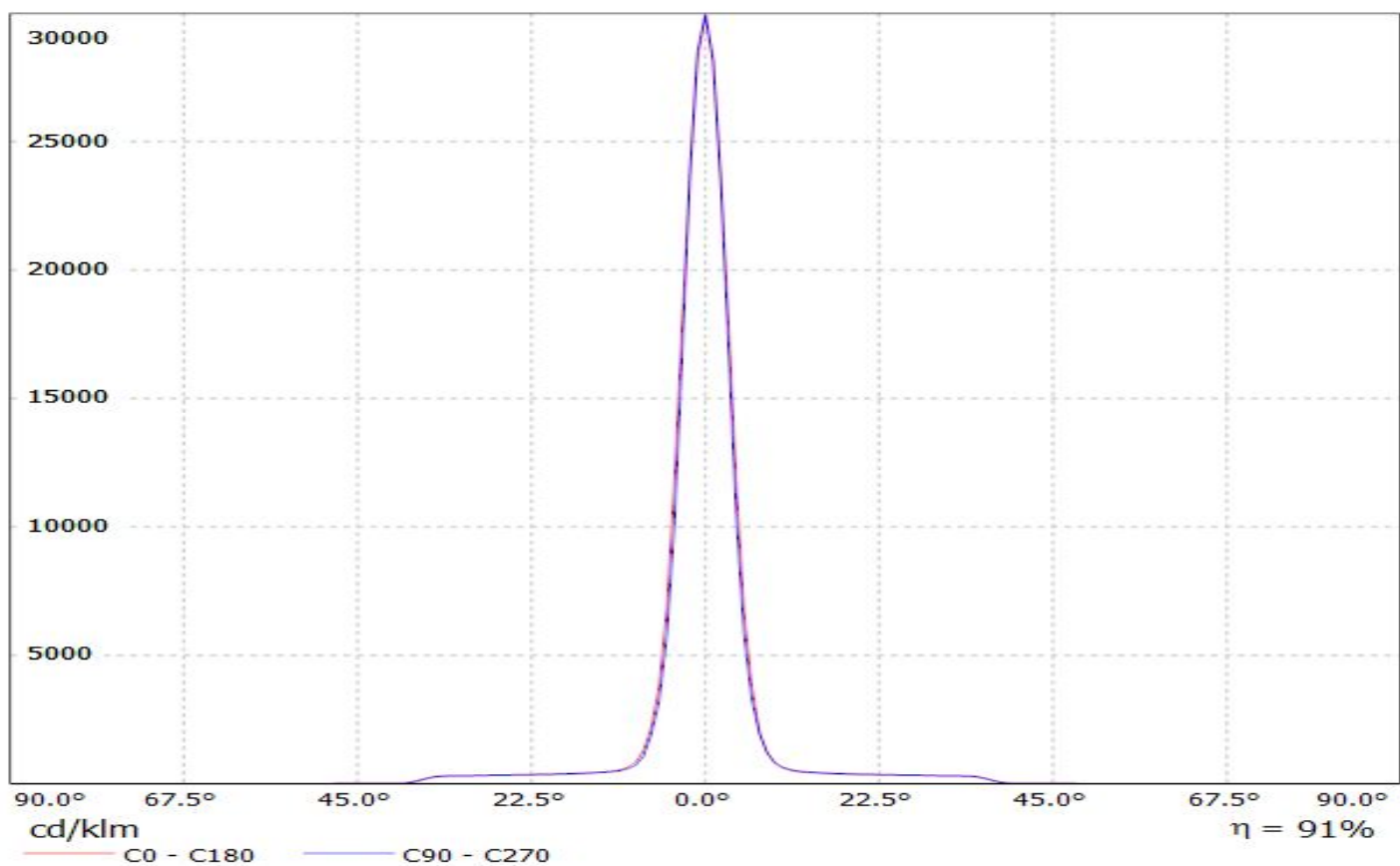
Lamps: 1 x Osram_Soleriq_S13_(GW_KAGHB1.EM)_896.727lm@250mA_P=7.44679W_I=250mA



Luminaire: Ledil FCN13705_ANGELA-S (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

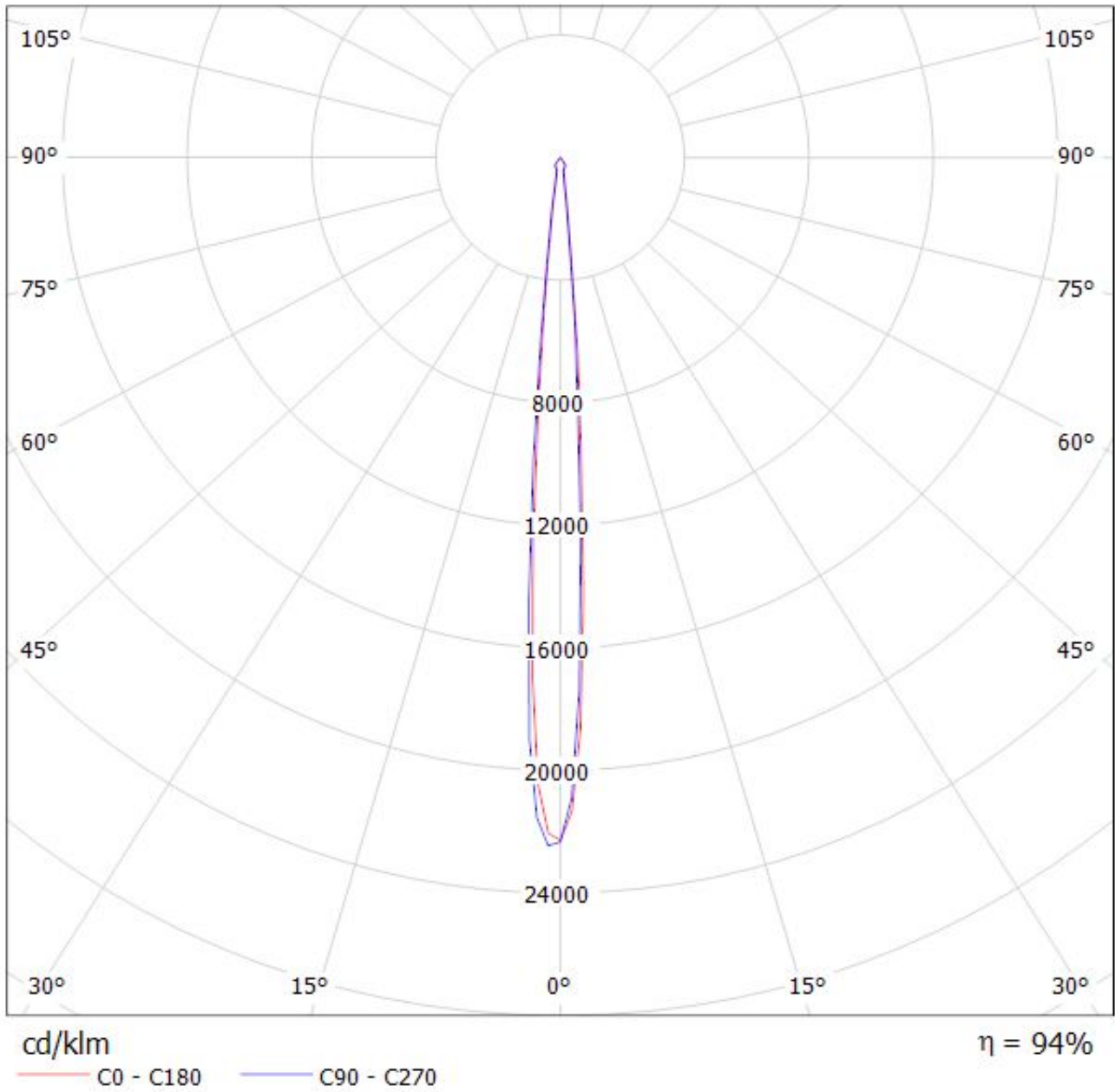


Luminaire: LEDiL Oy FCN13705_ANGELA-S_(SLE-G5_LES-11)
Lamps: 1 x Tridonic_SLE-G5_LES-11_1137.55lm@250mA_P=8.4177W_I=0.250A

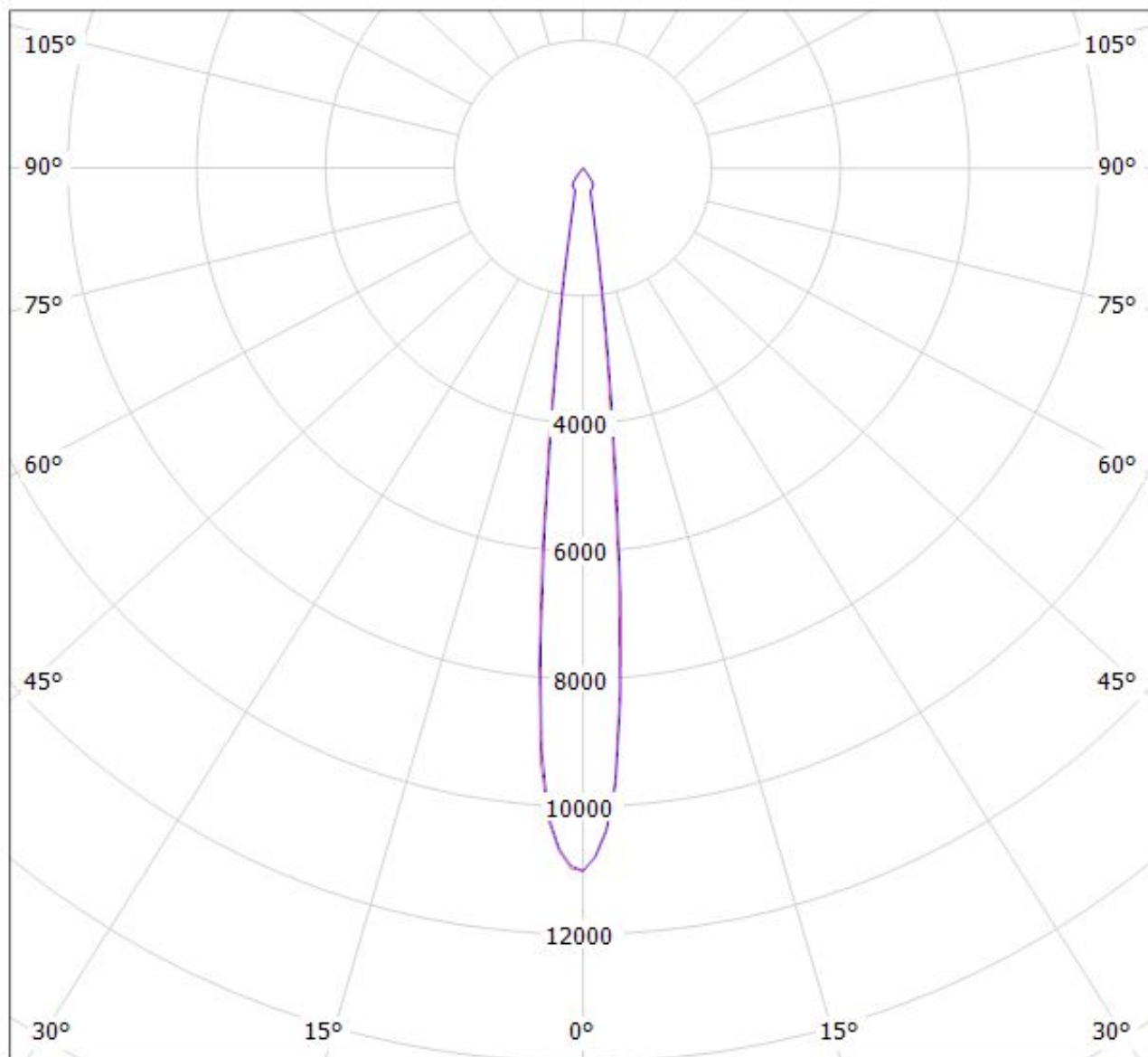


Luminaire: LEDiL Oy FCN13705_ANGELA-S_(VERO13)

Lamps: 1 x Bridgelux_VERO13_(BXRC-40E2000C)_1069.14lm@250mA_P=7.64944W_I=249.9mA



Luminaire: LEDiL Oy FCN13705_ANGELA-S_(VERO18) Eff.93.1%
Lamps: 1 x Bridgelux_VERO18_891.528lm@250mA_P=6.81802W_I=249.9mA

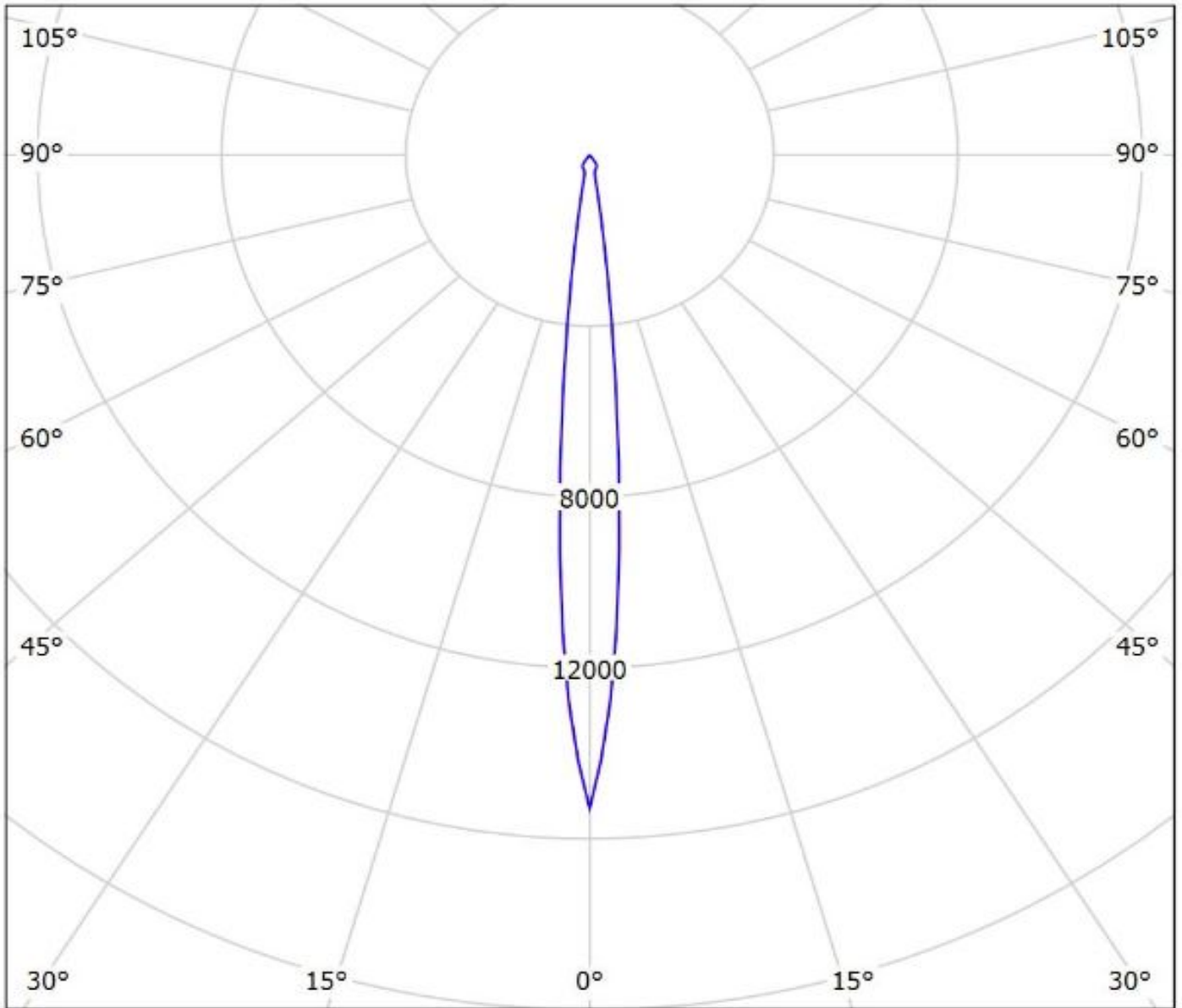


cd/klm

$\eta = 93\%$

— C0 - C180 — C90 - C270

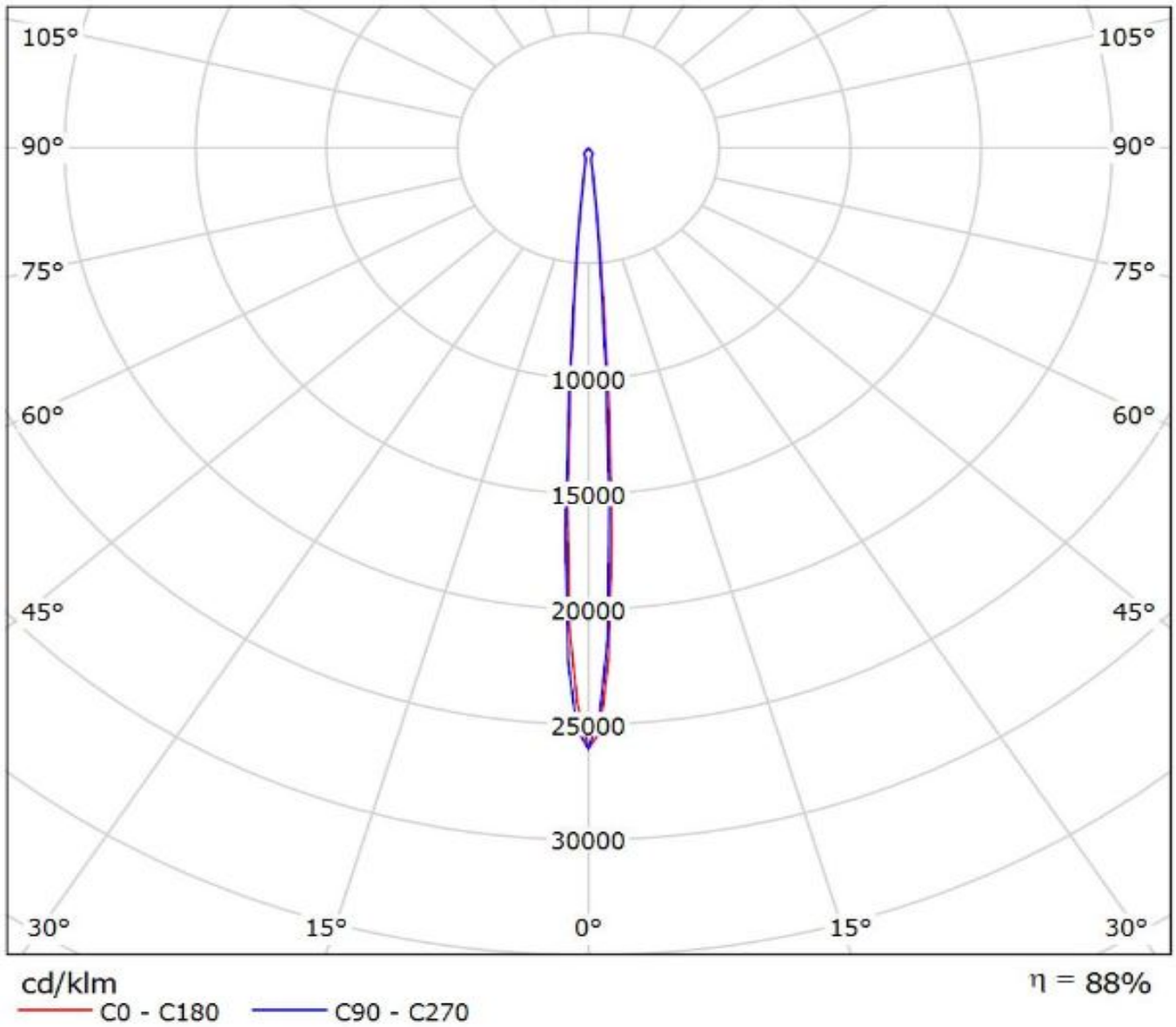
Luminaire: Ledil Oy FCN13705_ANGELA-S+_B+W_434_TypL1_BRIDGELUX_V10_Gen7_SIMULATED
Lamps: 1 x BRIDGELUX V10 Gen7



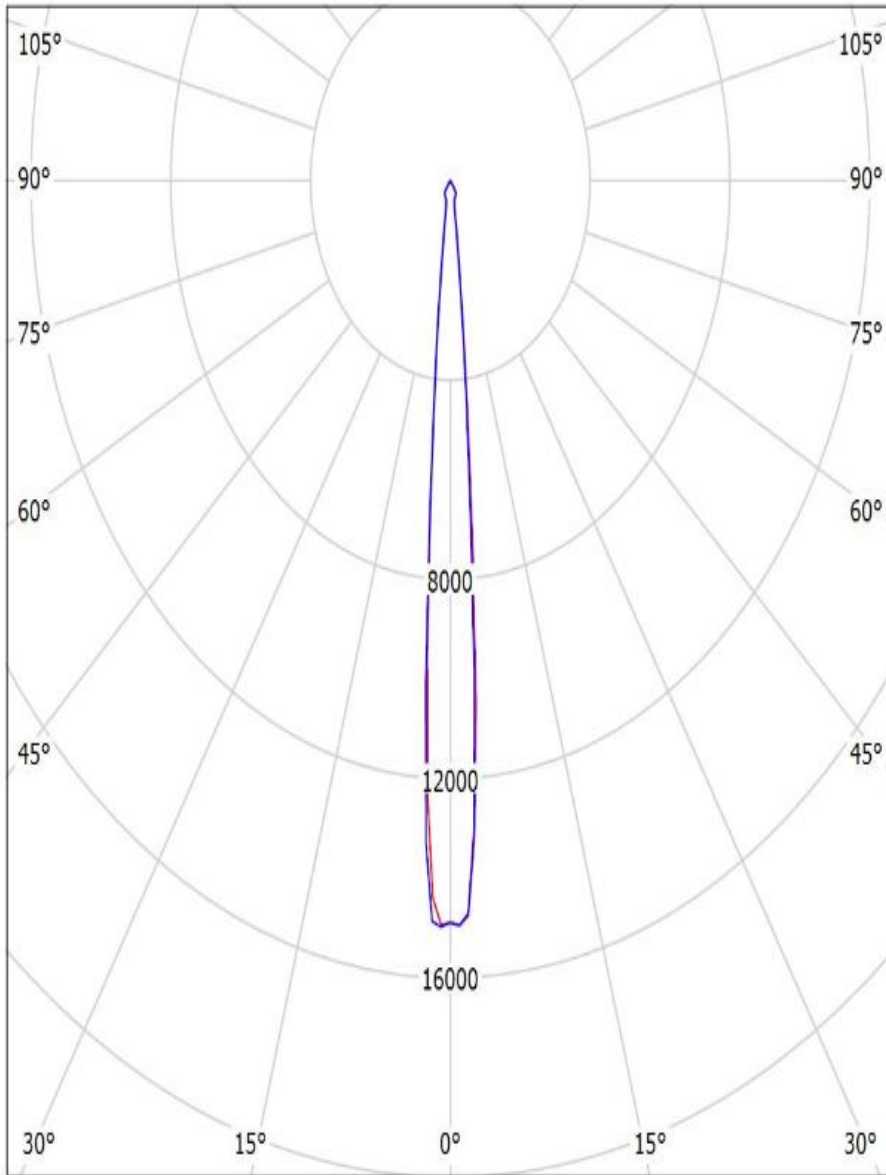
Ledil FCN13705_ANGELA-S_(CLU720)_(433_Typ_L1) / LDC (Polar)

Luminaire: Ledil FCN13705_ANGELA-S_(CLU720)_(433_Typ_L1)

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



Luminaire: Ledil FCN13705_ANGELA-S_(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

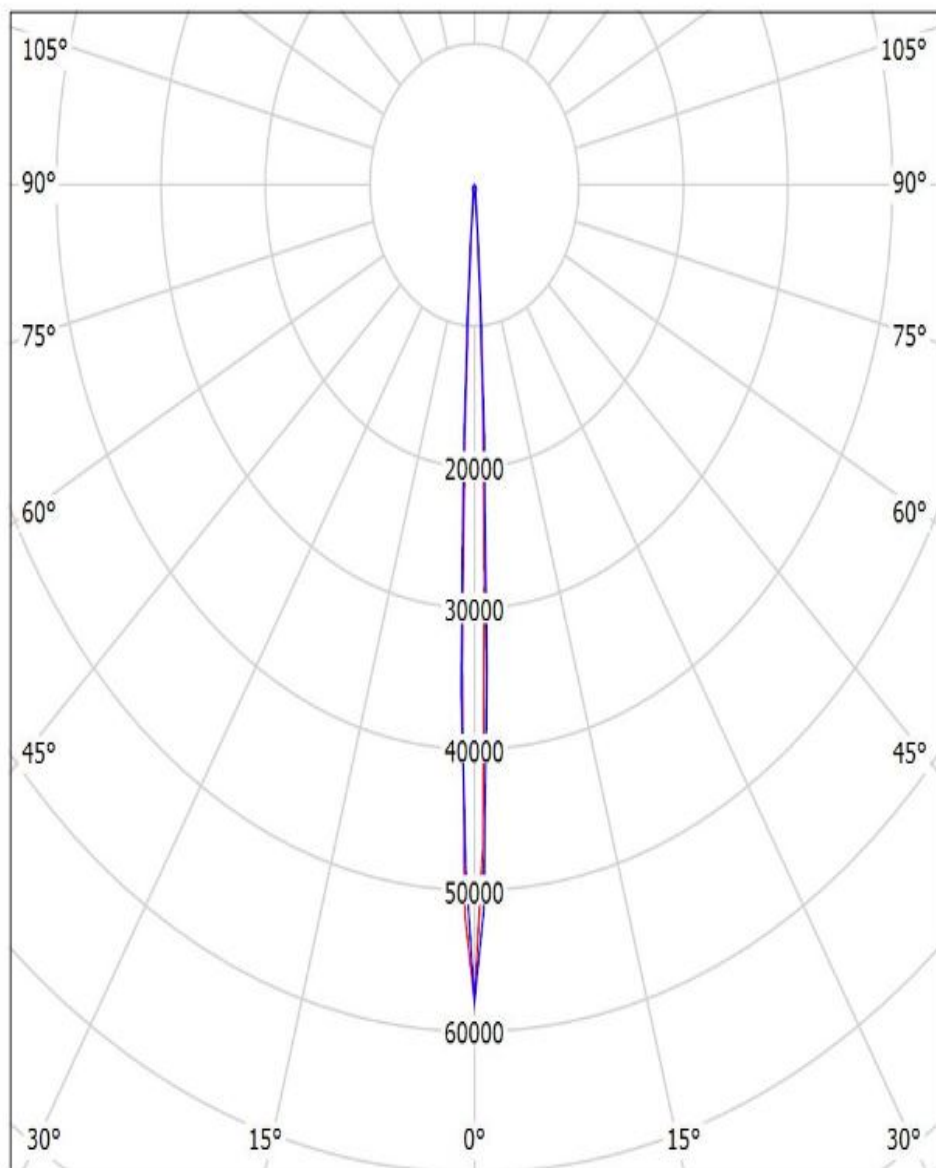


cd/klm

— C0 - C180 — C90 - C270

$\eta = 88\%$

Luminaire: Ledil FCN13705_ANGELA-S_(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



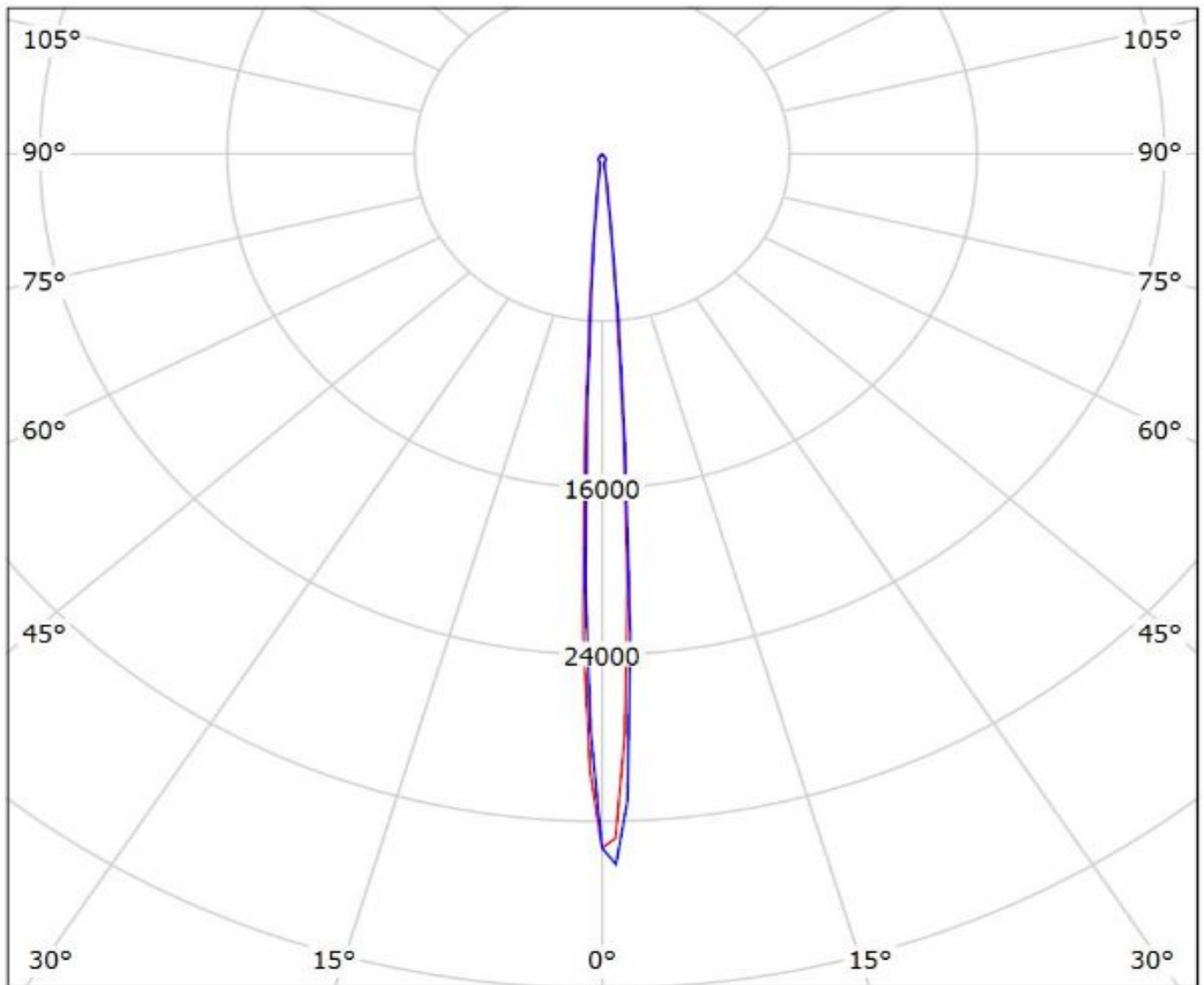
cd/klm

— C0 - C180 — C90 - C270

$\eta = 88\%$

Luminaire: Ledil FCN13705_ANGELA-S_(CLU024) Citizen_CLU024_(434_Typ_L1)_(C13658_CLAMP-VERO13-18)_1077.47lm@250mA_P=8.57W_I=0.25A

Lamps: 1 x Citizen_CLU024_(434_Typ_L1)_(C13658_CLAMP-VERO13-18)_1077.47lm@250mA_P=8.57W_I=0.25A



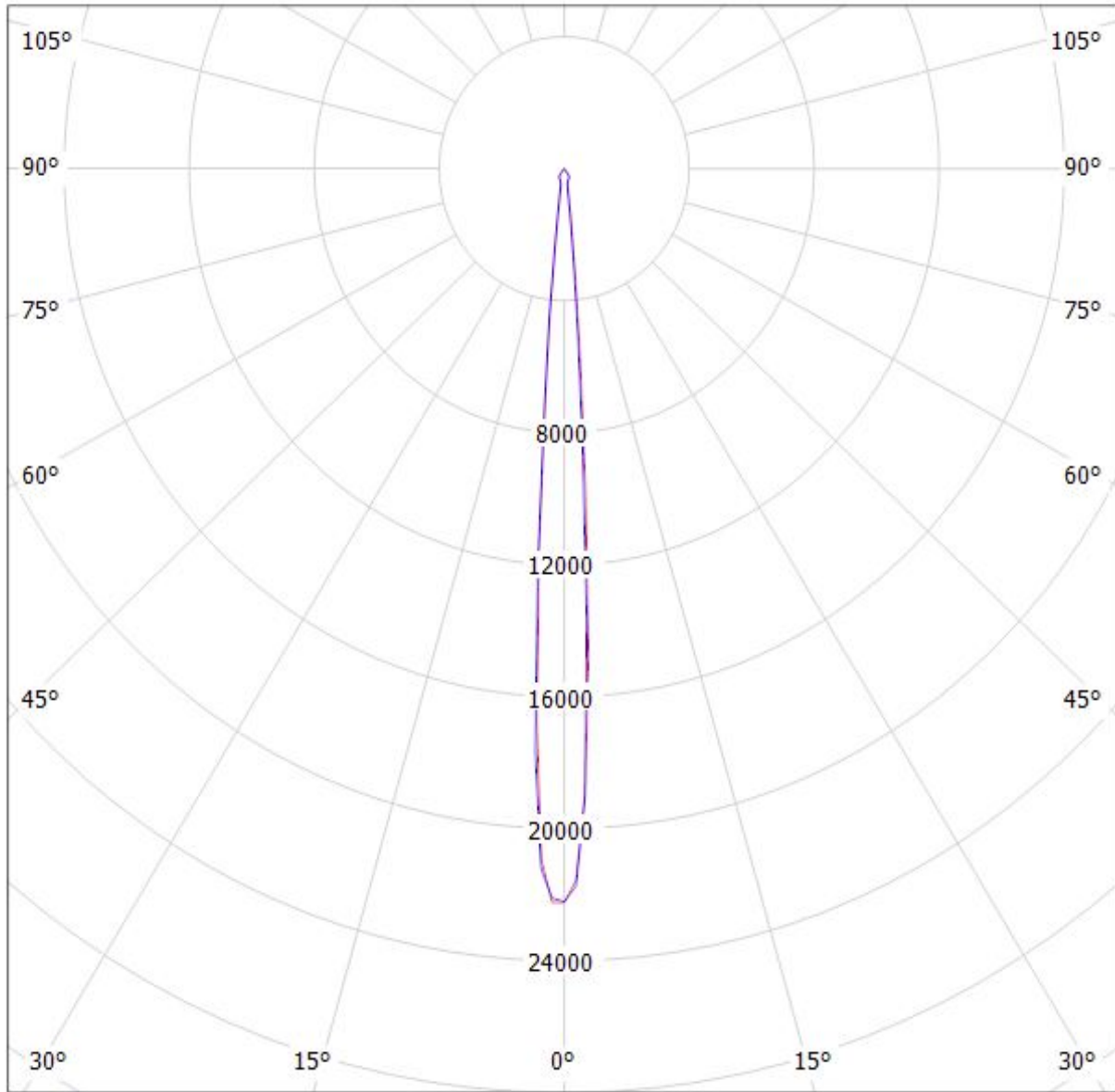
cd/klm

— C0 - C180 — C90 - C270

$\eta = 89\%$

Luminaire: Ledil FCN13705_ANGELA-S_(CXA1850)

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



cd/klm

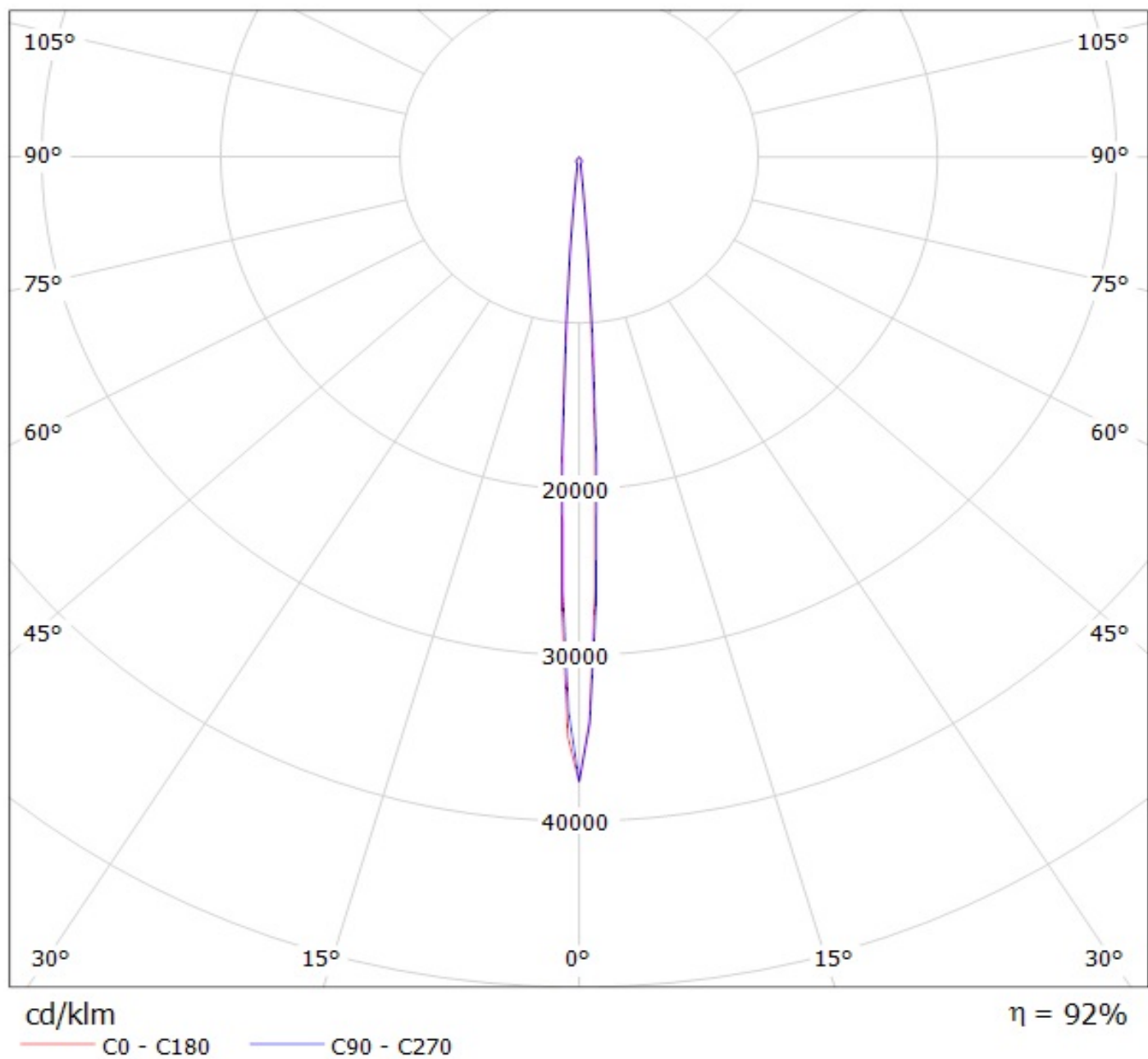
— C0 - C180

— C90 - C270

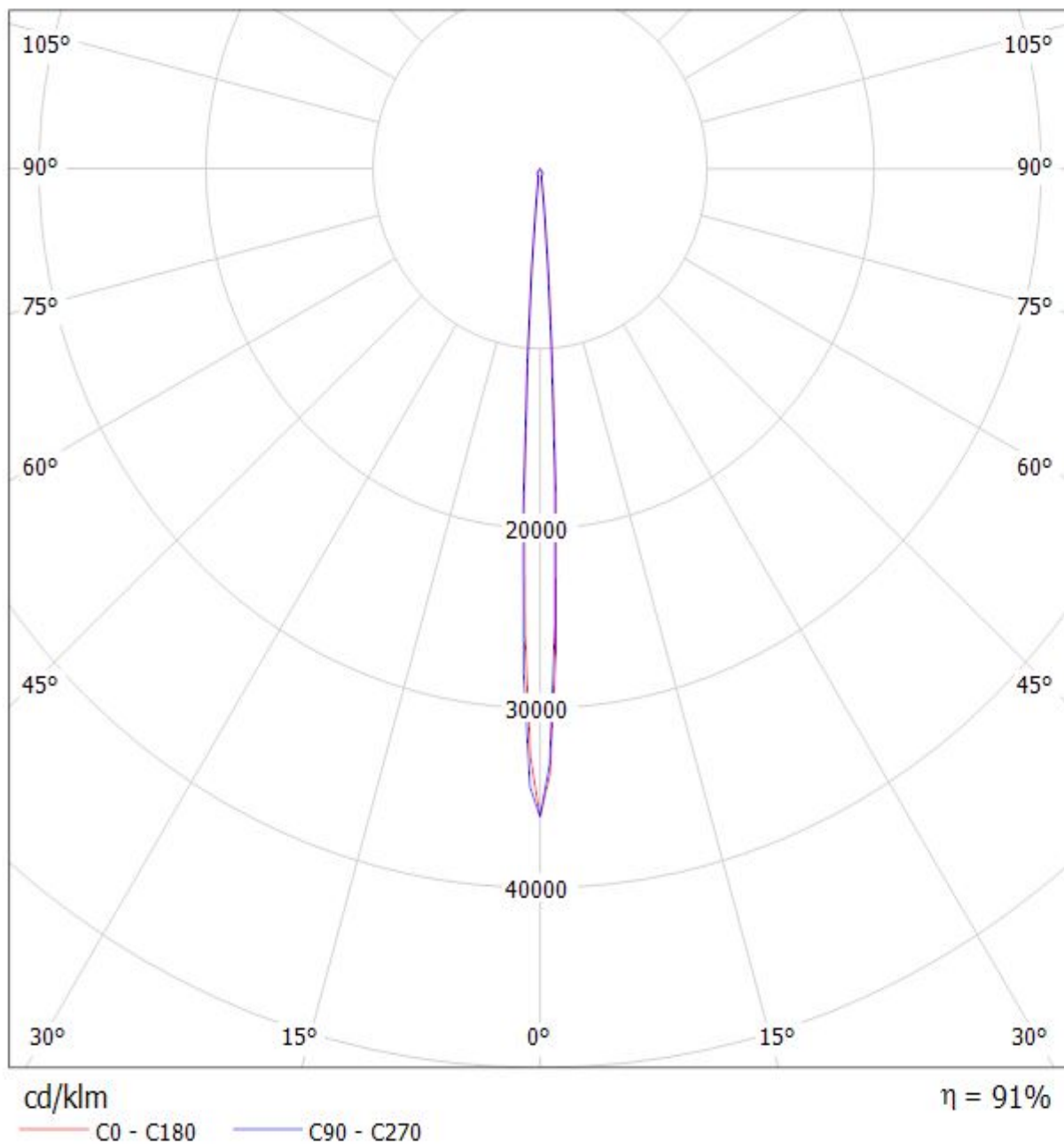
η = 88%

Luminaire: LEDiL Oy FCN13705_ANGELA-S_(CXA1520)_ (441_Typ_L1)

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

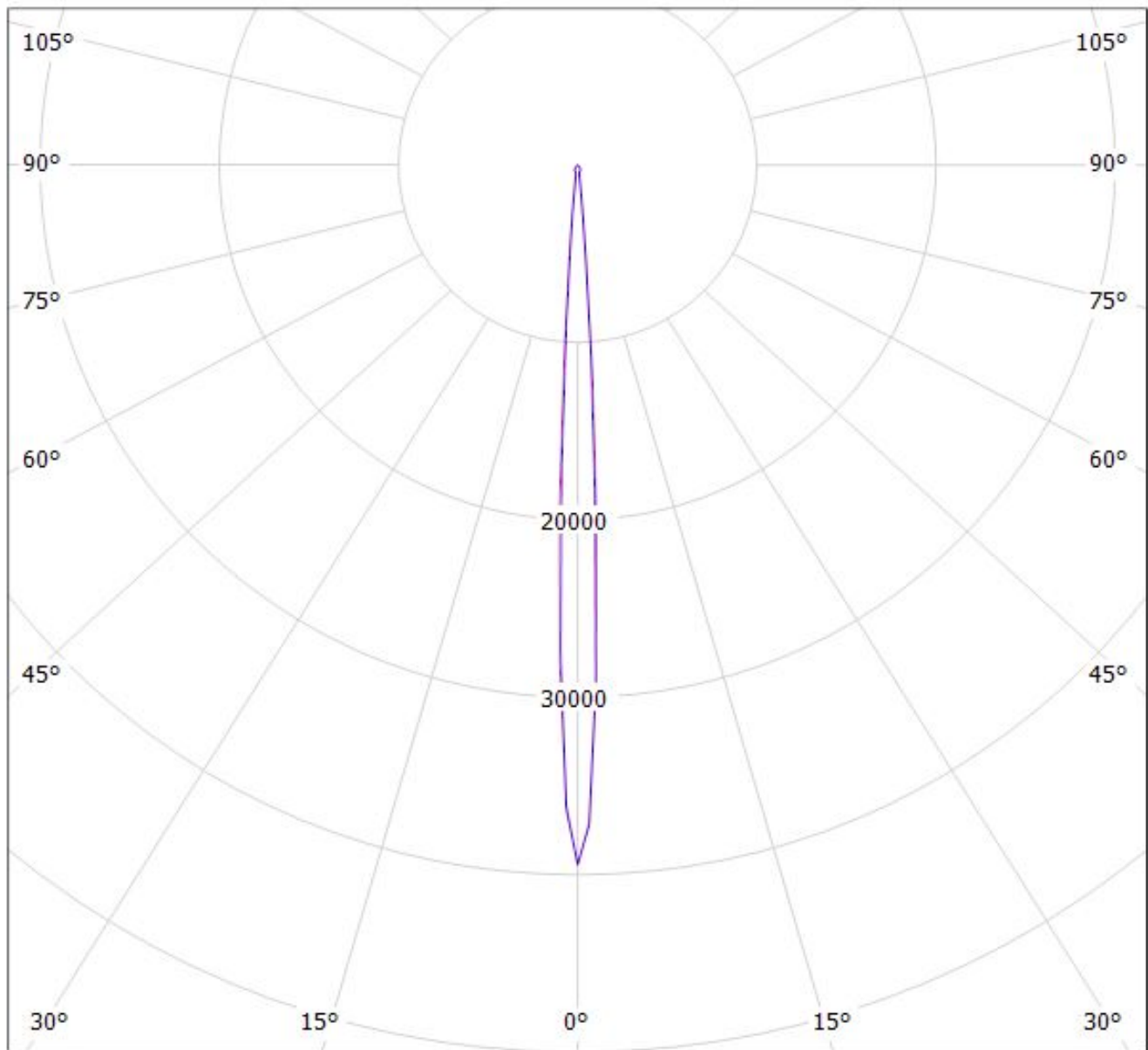


Luminaire: LEDiL Oy FCN13705_ANGELA-S_(LUXEON_CoB_1203)_ (438_Typ_L1)_ (C13658_CLAMP-VERO13-18)
Lamps: 1 x LUXEON_CoB_1203_(438_Typ_L1)_ (C13658_CLAMP-VERO13-18)_984.561lm@250mA_P=8.6828W_η=0.25A



Luminaire: LEDiL Oy FCN13705_ANGELA-S_(NFCLL036B)

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



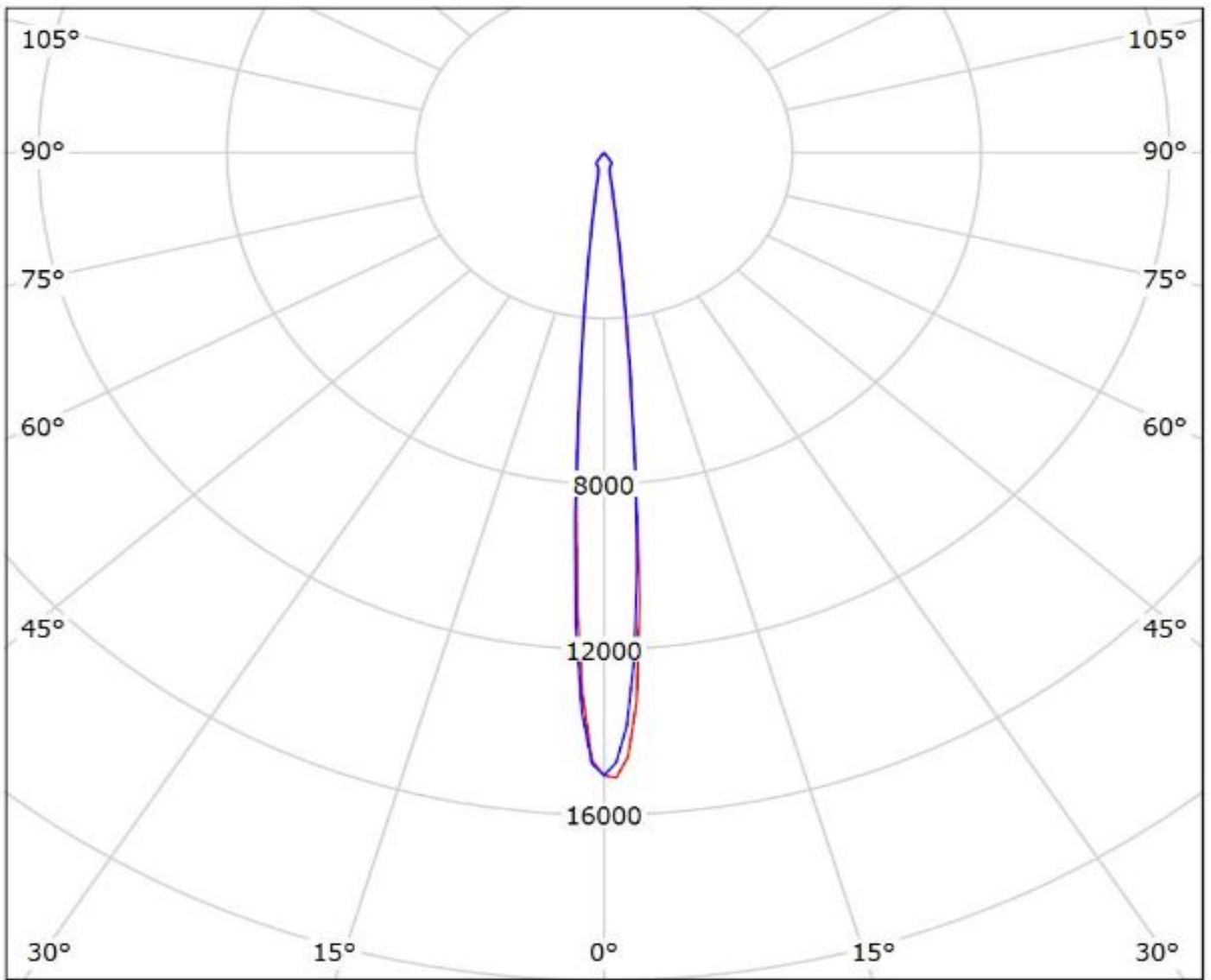
cd/klm

— C0 - C180

— C90 - C270

$\eta = 93\%$

Luminaire: Ledil FCN13705_ANGELA-S_(NFDxJ130B)
Lamps: 1 x Nichia_NFDxJ130B_(463 Typ L2)_C13658_CLAMP-
VERO13_1504.8lm@250mA_P=8.27W_I=0.25A

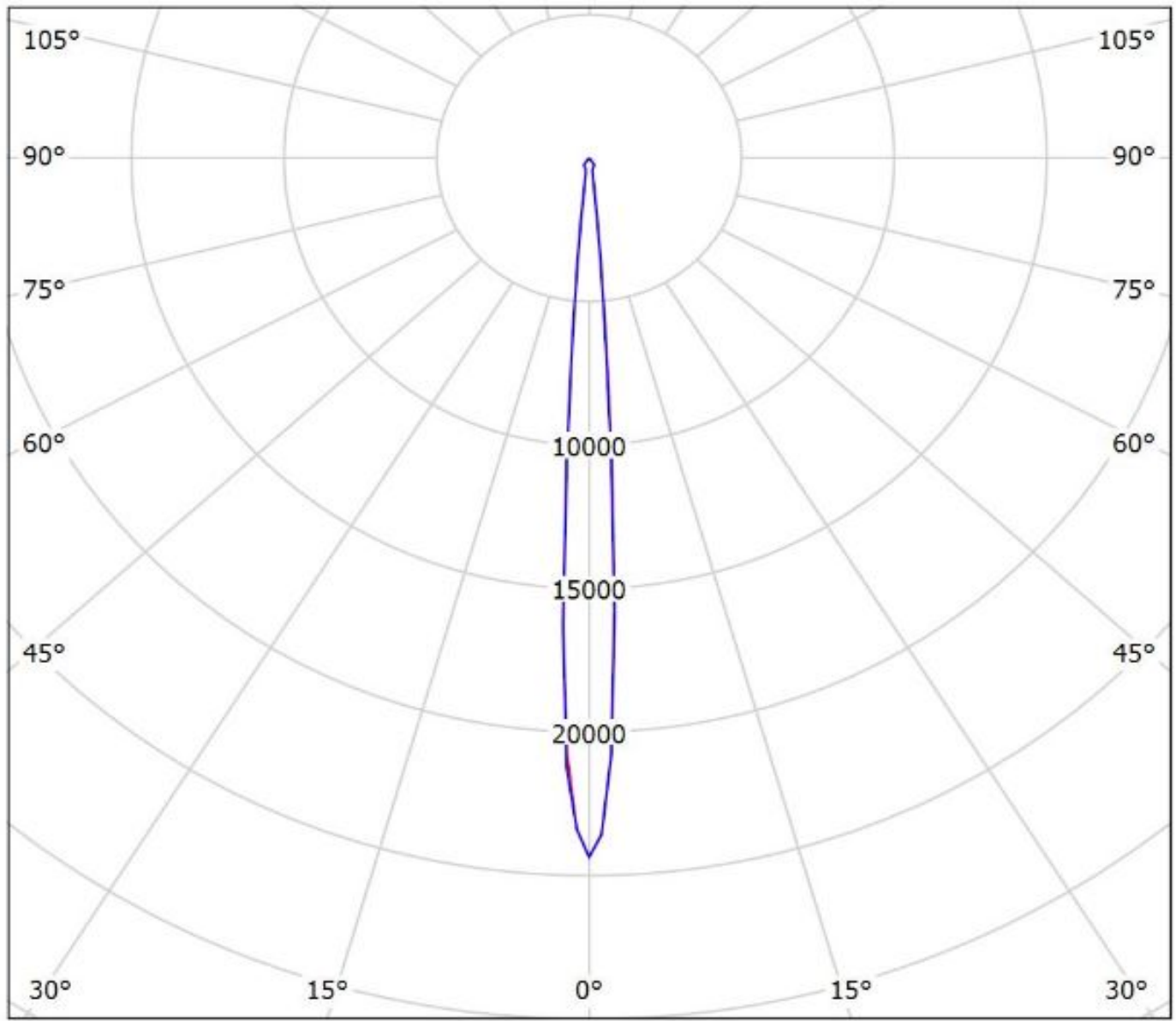


cd/klm
— C0 - C180 — C90 - C270

$\eta = 89\%$

Luminaire: Ledil FCN13705_ANGELA-S_(NFCLL060B)

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



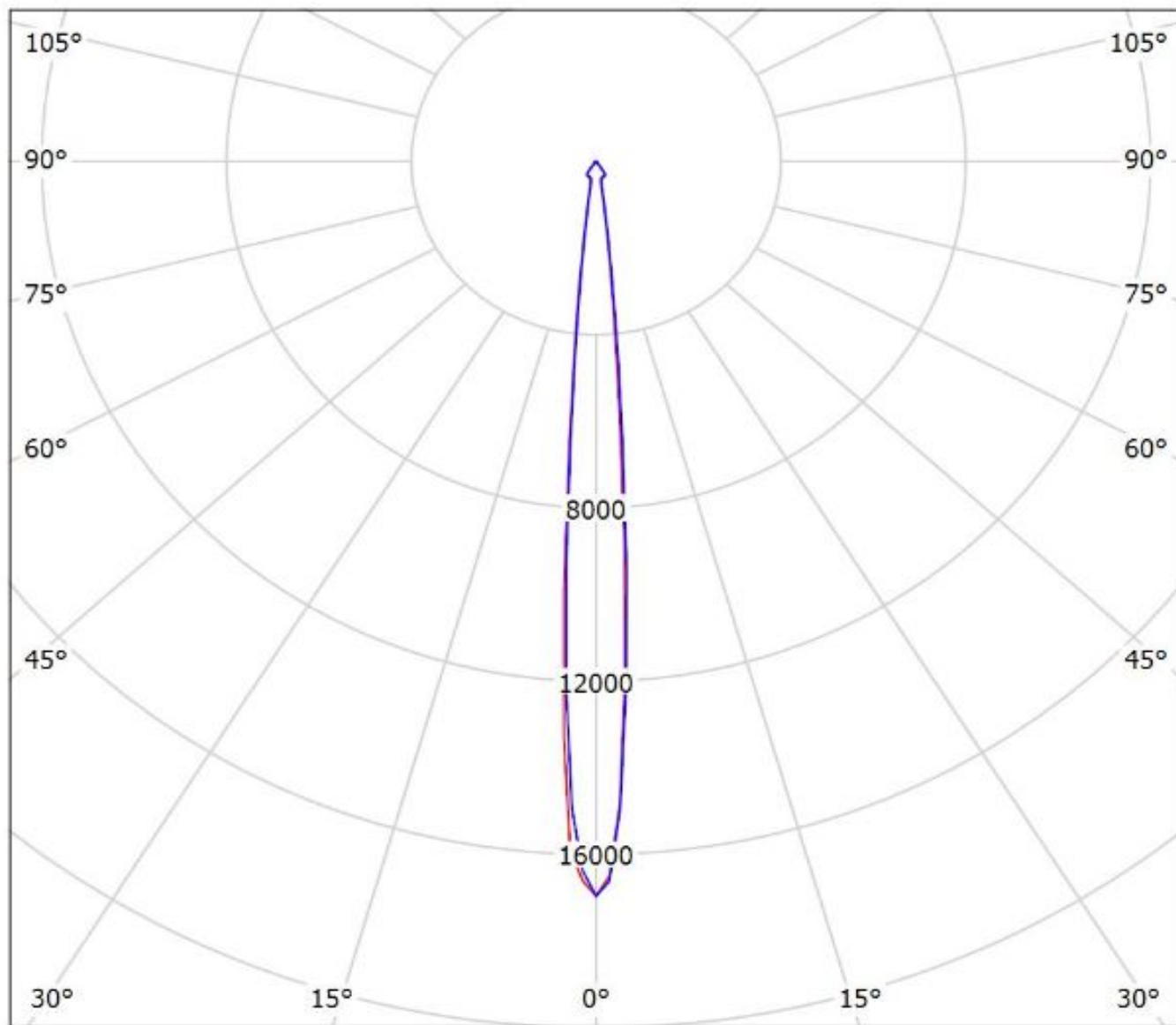
cd/klm

— C0 - C180 — C90 - C270

$\eta = 89\%$

Luminaire: Ledil FCN13705_ANGELA-S_(Soleriq_P13)

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



cd/klm

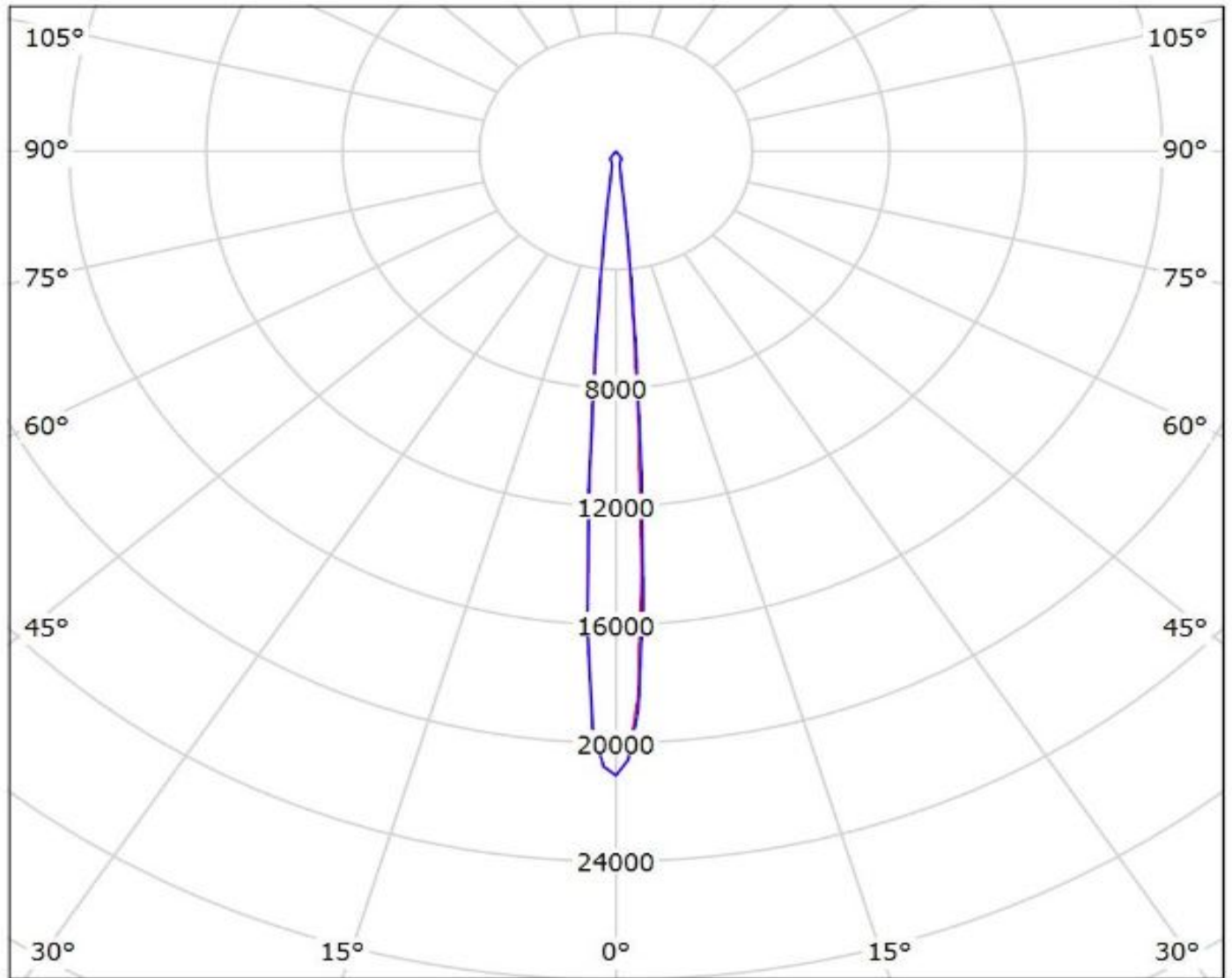
— C0 - C180 — C90 - C270

$\eta = 97\%$

Ledil FCN13705_ANGELA-S_(Soleriq_S13) / LDC (Polar)

Luminaire: Ledil FCN13705_ANGELA-S_(Soleriq_S13)

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



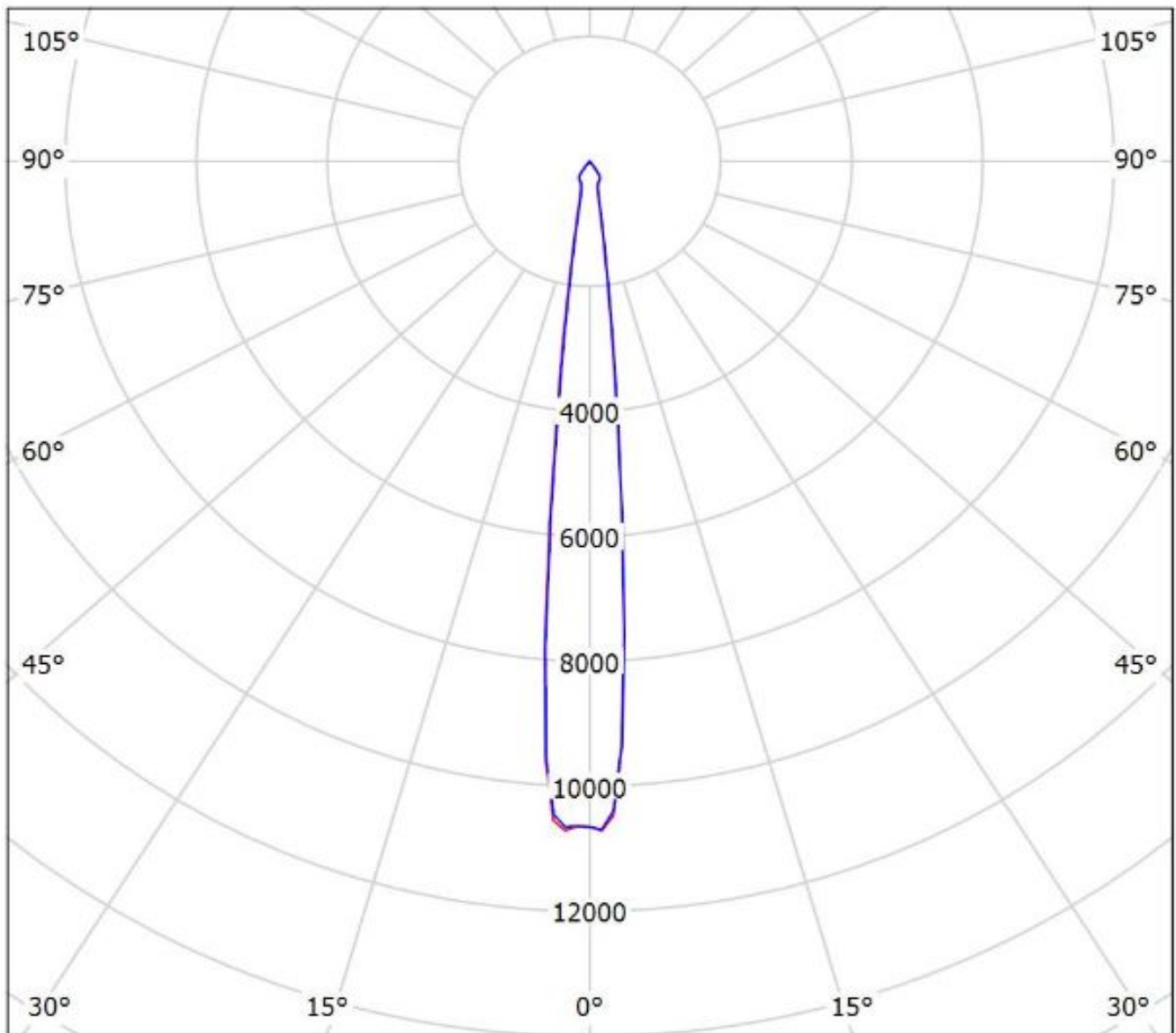
cd/klm

— C0 - C180

— C90 - C270

$\eta = 89\%$

Luminaire: Ledil FCN13705_ANGELA-S_(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



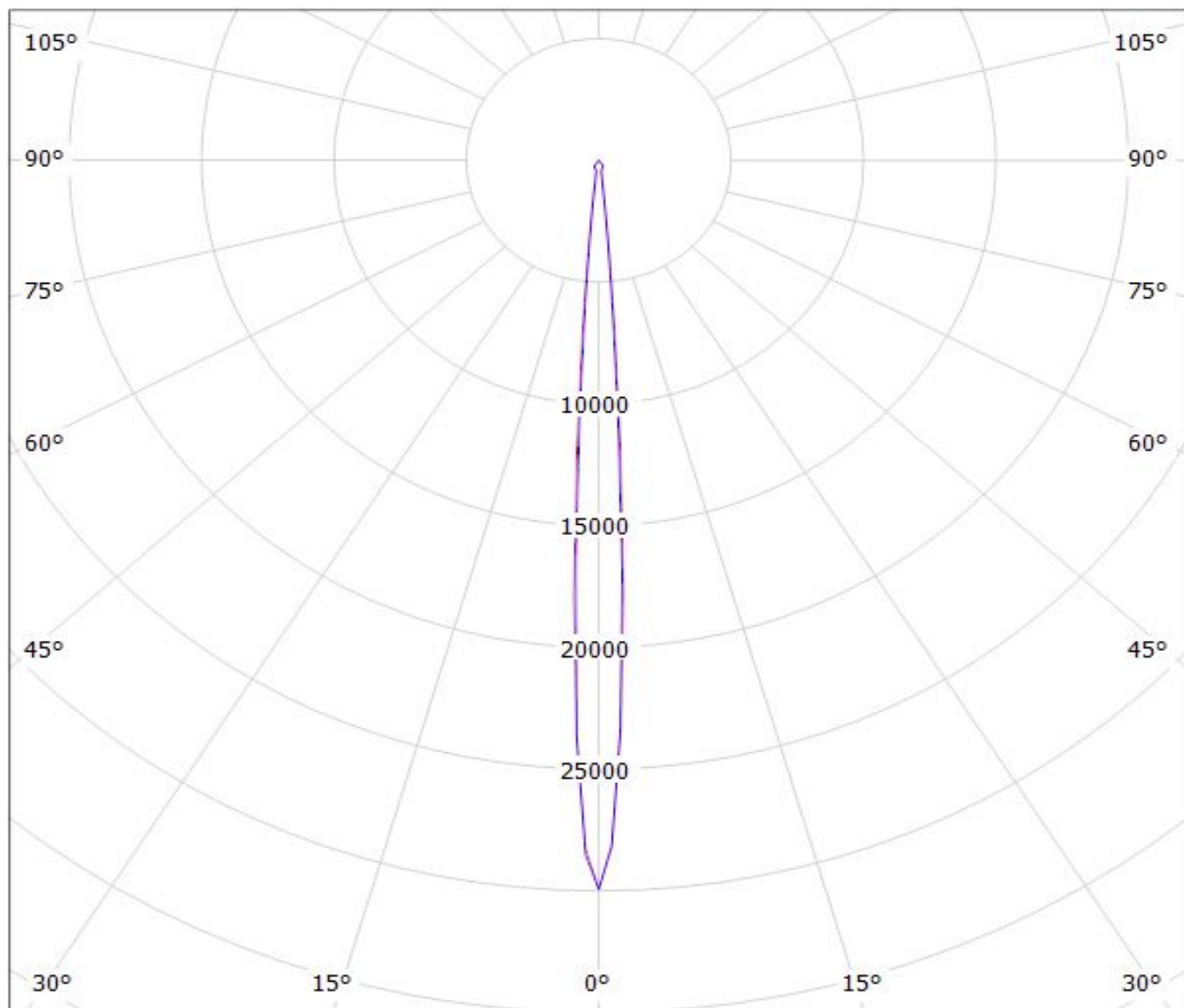
cd/klm

— C0 - C180 — C90 - C270

$\eta = 88\%$

Luminaire: LEDiL Oy FCN13705_ANGELA-S_(SLE-G5_LES-11)

Lamps: 1 x Tridonic_SLE-G5_LES-11_1137.55lm@250mA_P=8.4177W_I=0.250A



cd/klm

— C0 - C180

— C90 - C270

η = 91%

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.