

DETAILS

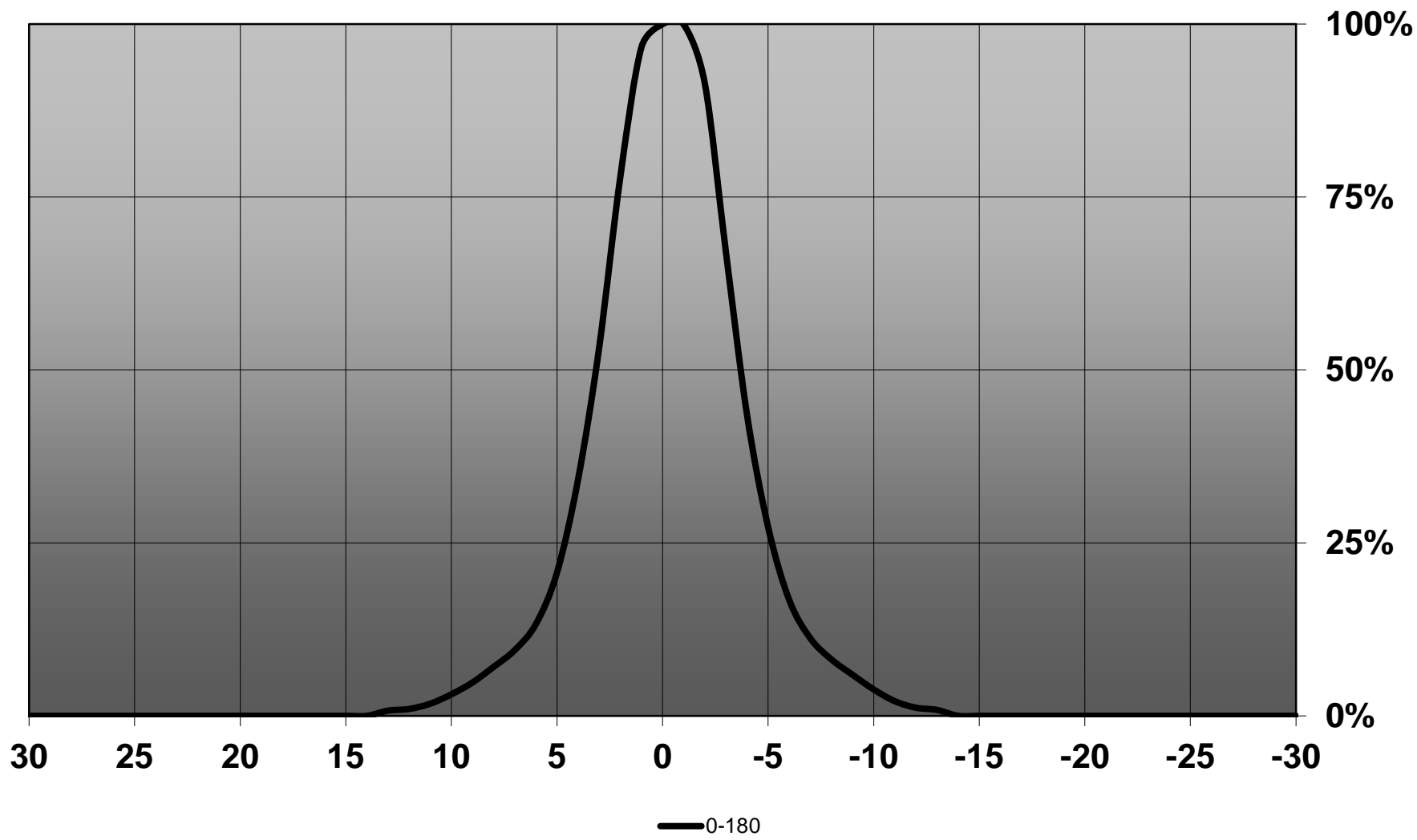
| | |
|------------------------|-----------------------|
| Product Number | FCN13595_CRYSTAL-MINE |
| Family | Crystal |
| Type | Pack |
| Color | white |
| Diameter | 50,3 mm |
| Height | 28,7 mm |
| Style | round |
| Optic Material | PMMA |
| Holder Material | |
| Fastening | pin, screw |
| Status | production ready |
| ROHS Compliant | Yes |
| Date Updated | 23/01/2018 |



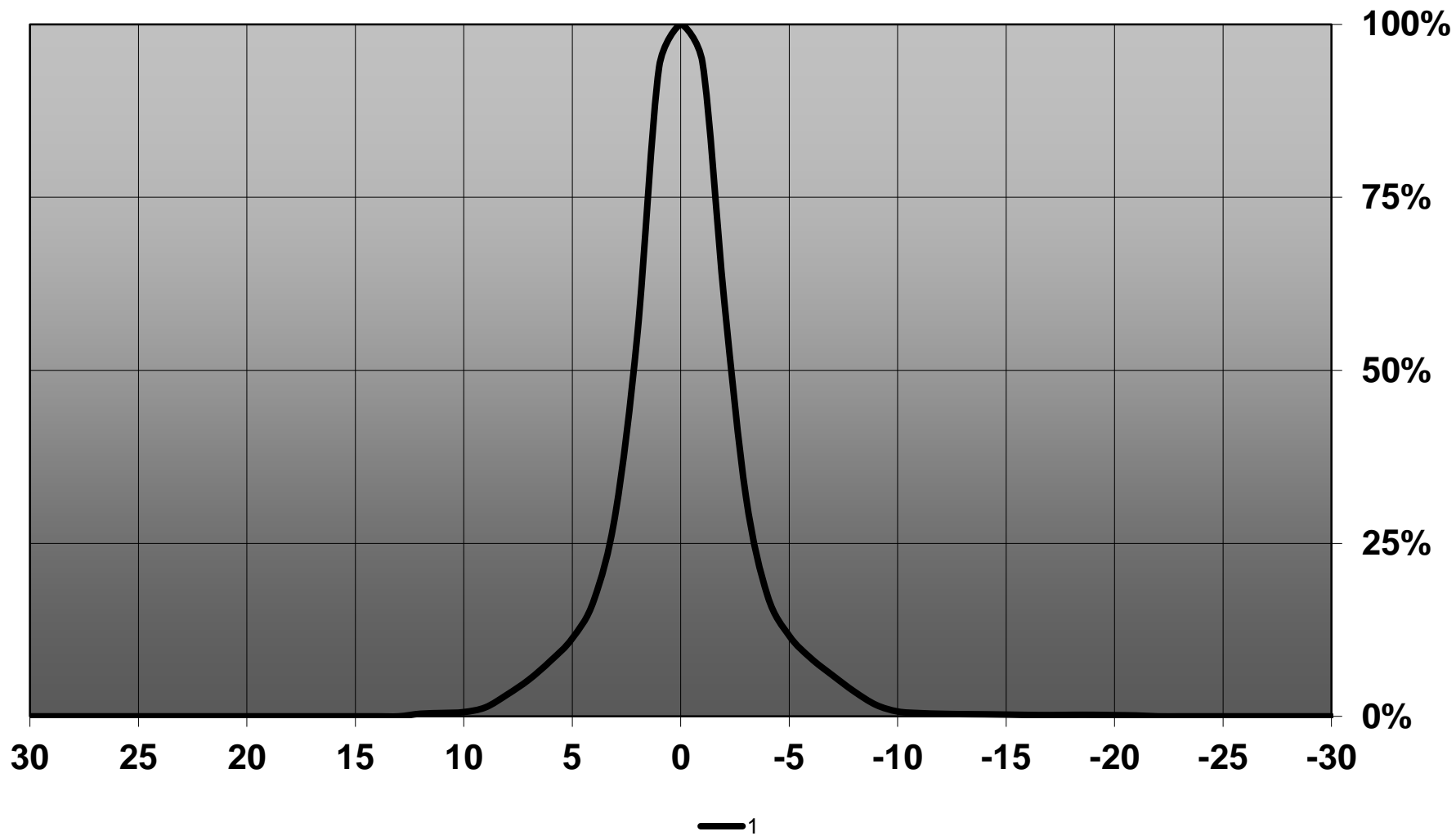
OPTICAL PROPERTIES

| LED | Viewing | Light | Efficiency | cd/lm | Connector |
|-------------------|----------|-------|------------|--------------|-----------|
| | Angle | Beam | | | |
| XP-G | 4,7 deg | Spot | 90 % | 66.900 | - |
| XM-L2 | 6,9 deg | Spot | 90 % | 35.000 | - |
| XP-G2 | 4,6 deg | Spot | 90 % | 65.200 | - |
| XP-L | 7 deg | Spot | 86 % | 33.000 | - |
| XP-L HI | 4,5 deg | Spot | 92 % | 60.000 | - |
| XHP35 HI | sim: 6,2 | Spot | sim: 94 % | sim: 50.400- | |
| XHP35 HD | sim: 7,8 | Spot | sim: 94 % | sim: 28.600- | |
| LUXEON A | 4,9 deg | Spot | 89 % | 58.200 | - |
| LUXEON T | 4,9 deg | Spot | 89 % | 55.100 | - |
| LUXEON TX | 5 deg | Spot | 94 % | 50.600 | - |
| NCSxx19B | 3,6 deg | Spot | 90 % | 73.300 | - |
| NWSx229A | 7 deg | Spot | 91 % | 26.000 | - |
| NV4x144A | 11 deg | Spot | 90 % | 13.400 | - |
| NVSxx19B/NVSxx19C | 6 deg | Spot | 93 % | 48.000 | - |
| Oslon Square Gen3 | sim: 5,4 | Spot | sim: 94 % | sim: 67.000- | |
| Oslon Square Flat | sim: 4,8 | Spot | sim: 94 % | sim: 78.000- | |
| LH351Z | 4,2 deg | Spot | 90 % | 71.400 | - |
| LH351B | 5,1 deg | Spot | 90 % | 51.770 | - |
| Z8Y22P | sim: 7,8 | Spot | sim: 94 % | sim: 29.900- | |
| Z5M1/Z5M2 | sim: 5,4 | Spot | sim: 94 % | sim: 66.700- | |

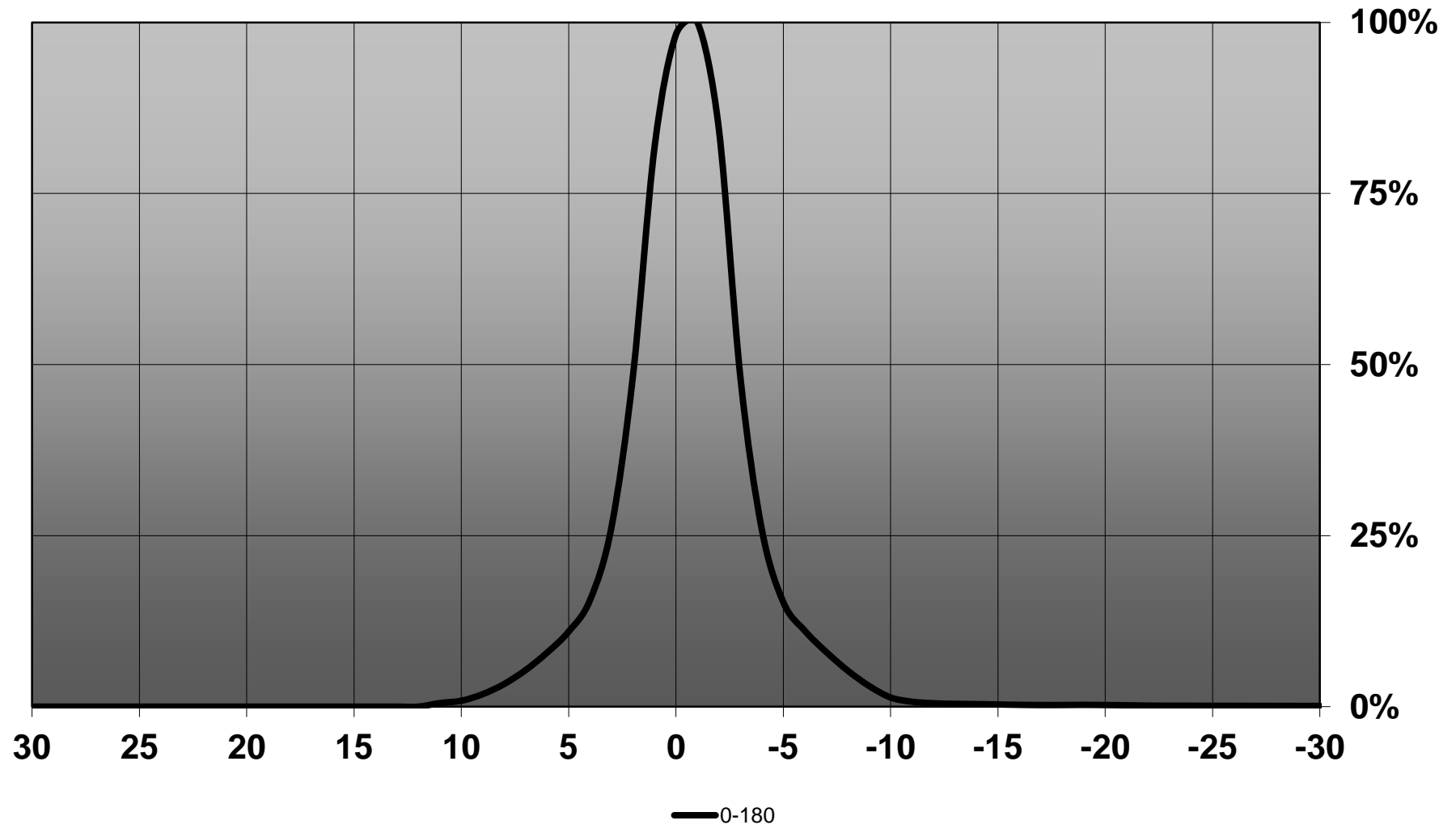
Relative intensity of CN13595_CRYSTAL-MINE_(XM-L2)



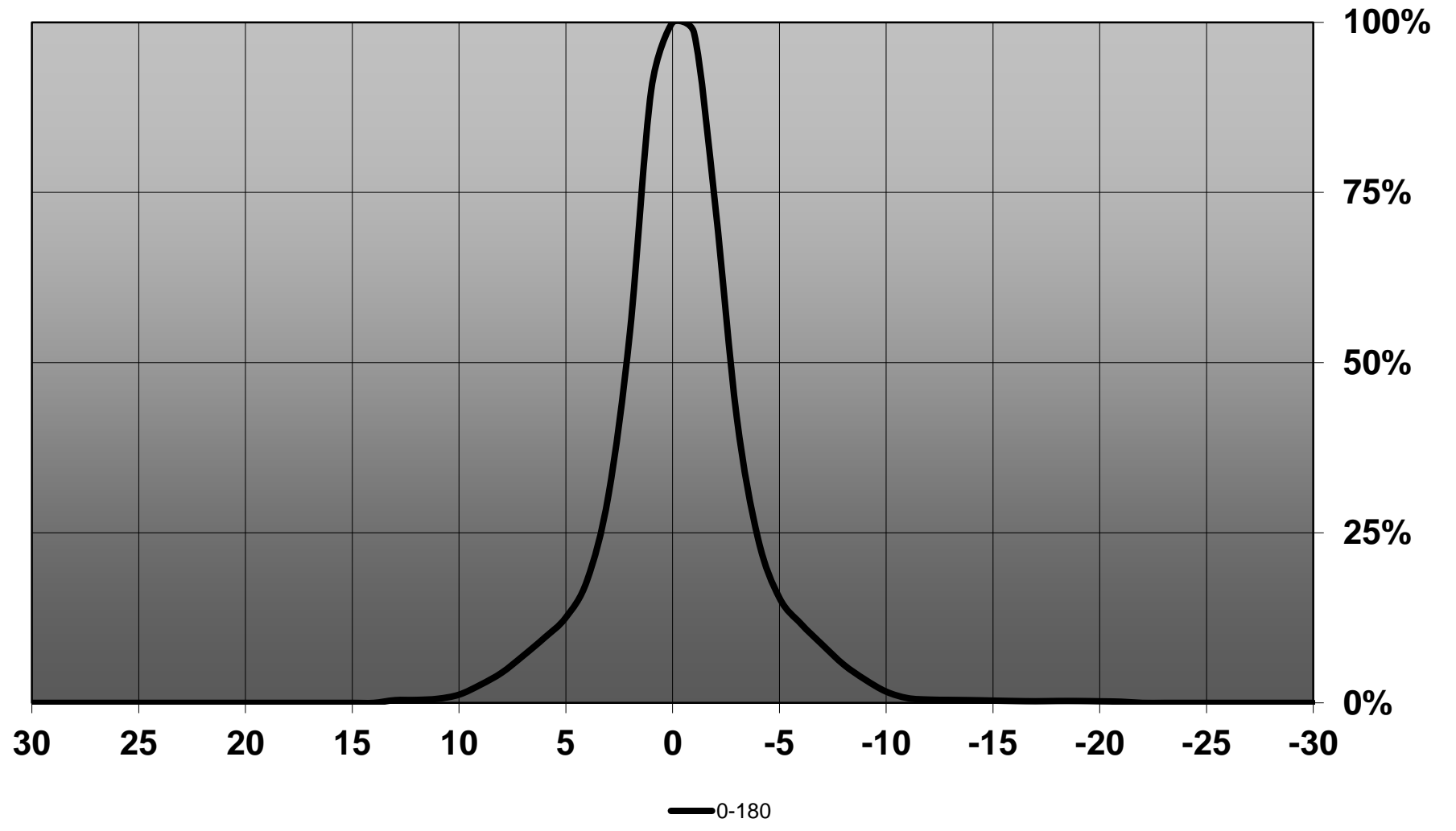
Relative intensity of CN13595_CRYSTAL-MINE_(XP-G2)



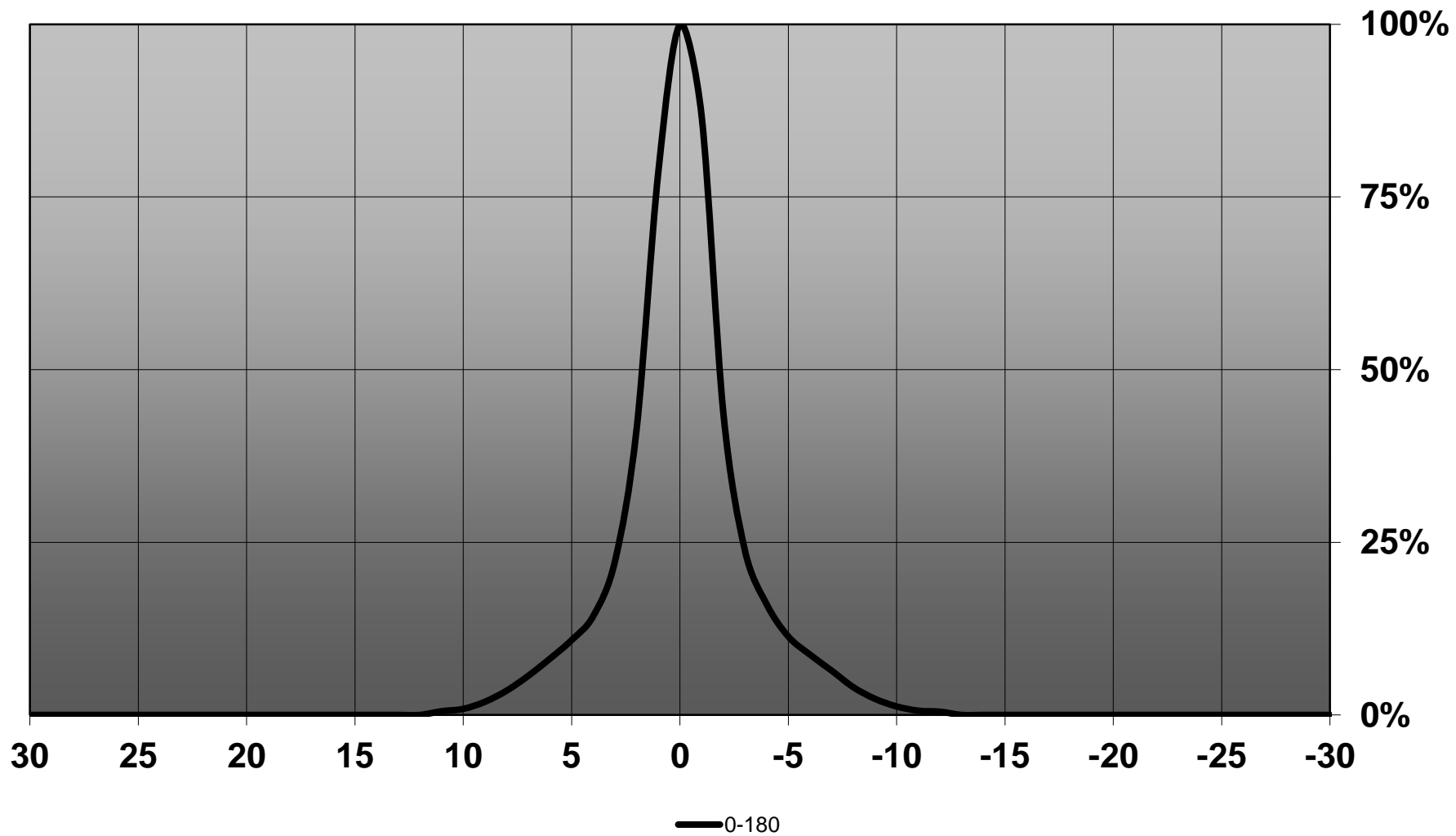
Relative intensity of CN13595_CRYSTAL-MINE_(Luxeon_A)



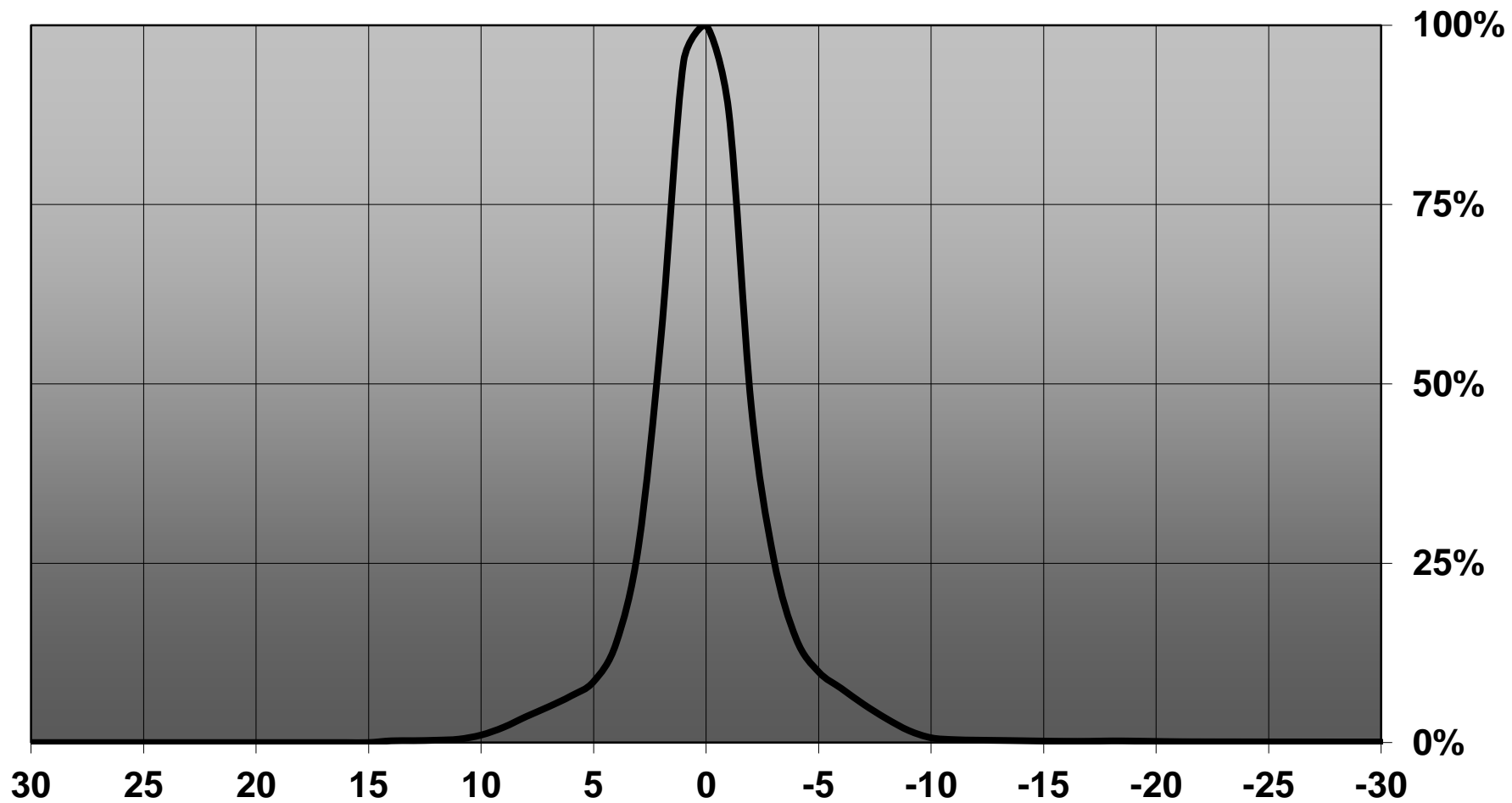
Relative intensity of CN13595_CRYSTAL-MINE_(Luxeon_T)



Relative intensity of CN13595_CRYSTAL-MINE_(NCSxx19B)

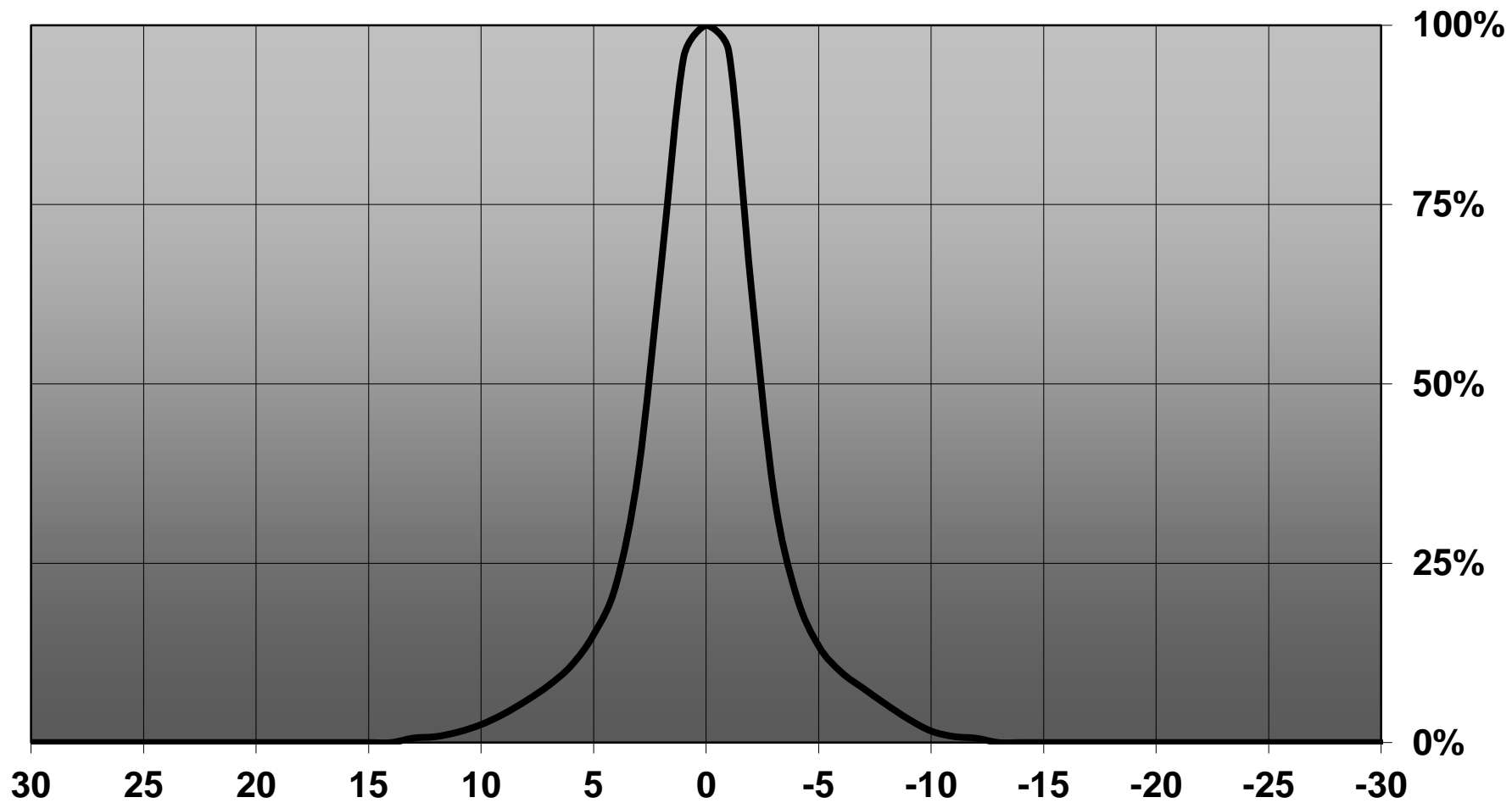


Relative intensity of CN13595_CRYSTAL-MINE_(LH351Z)



— 1: 0-180

Relative intensity of CN13595_CRYSTAL-MINE_(LH351B)



D

C

B

A

4

4

3

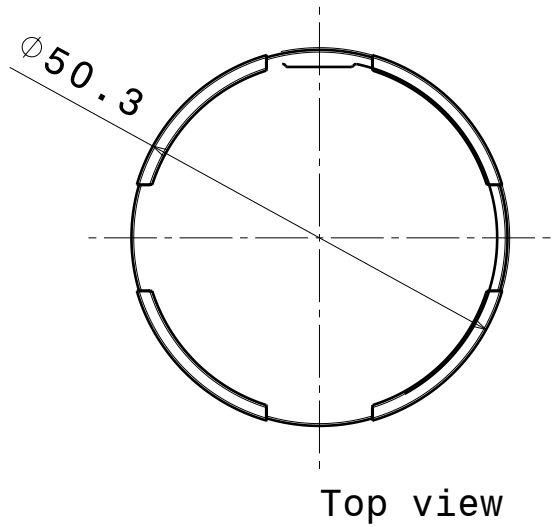
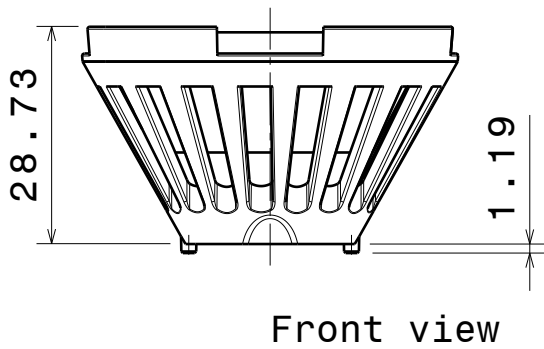
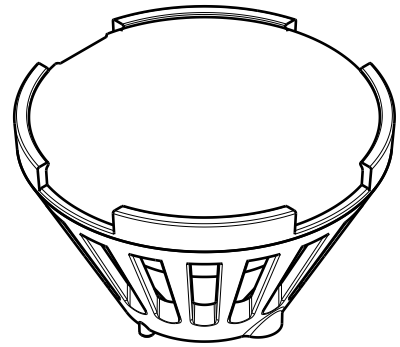
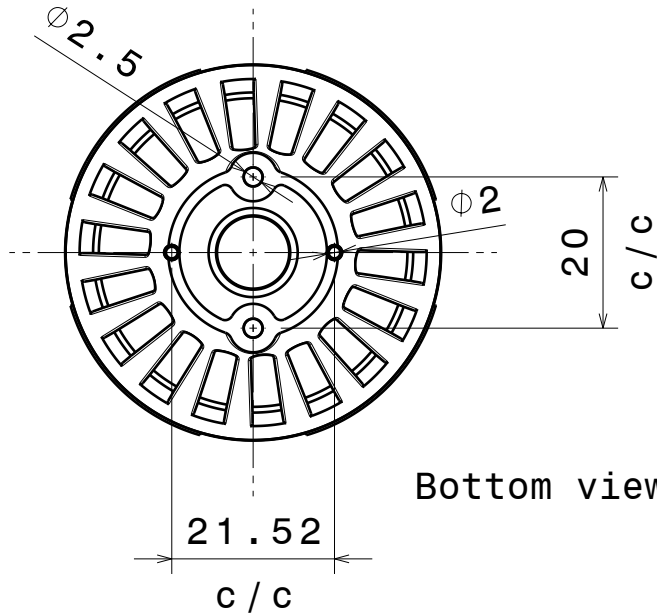
3

2

2

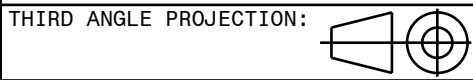
1

1



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



DRAWING TITLE
Crystal Assembly MechDrawing

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

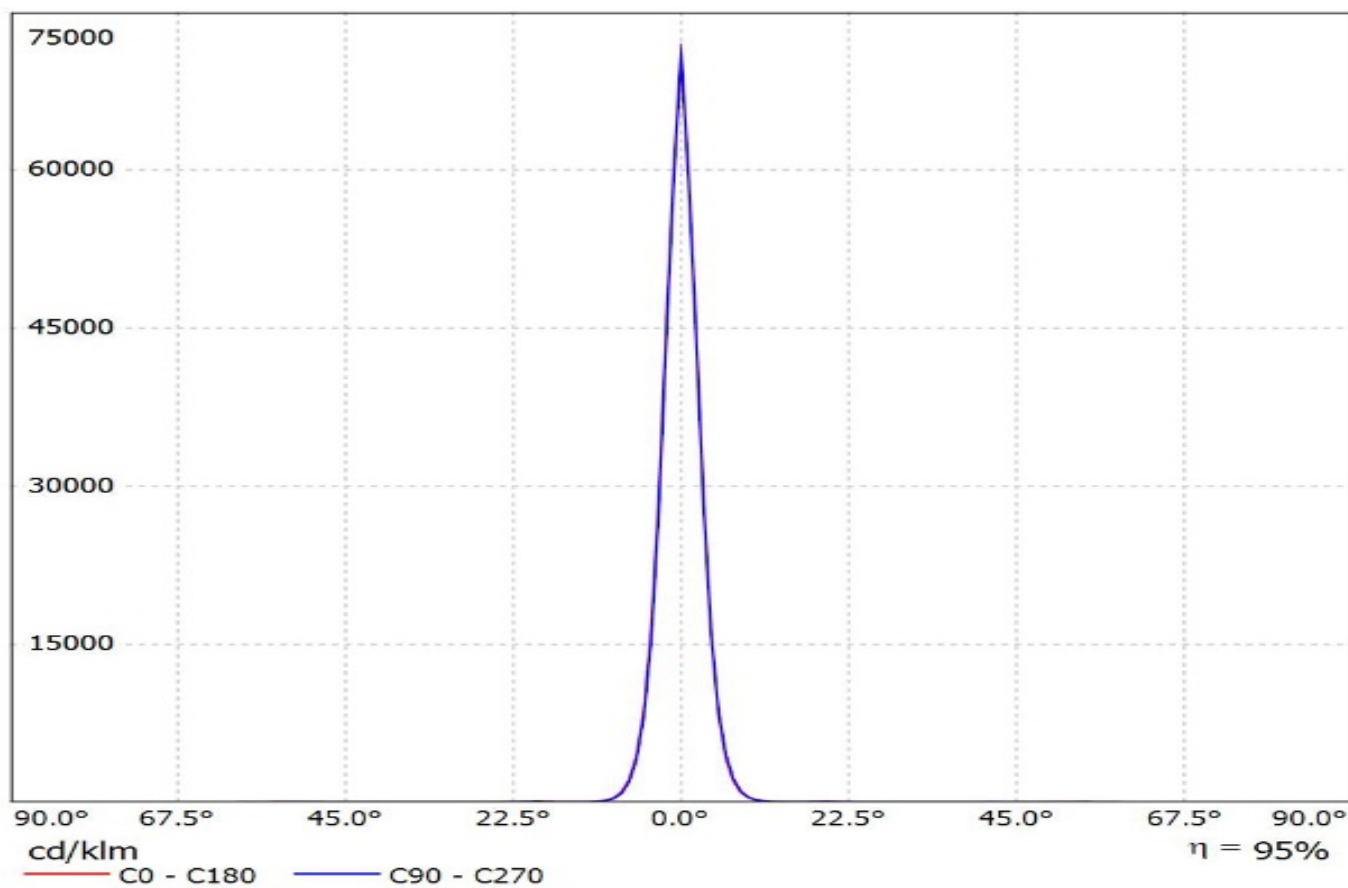
| | | | |
|------|-------------|--|--|
| SIZE | PART NUMBER | | |
| A4 | - | | |

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

D

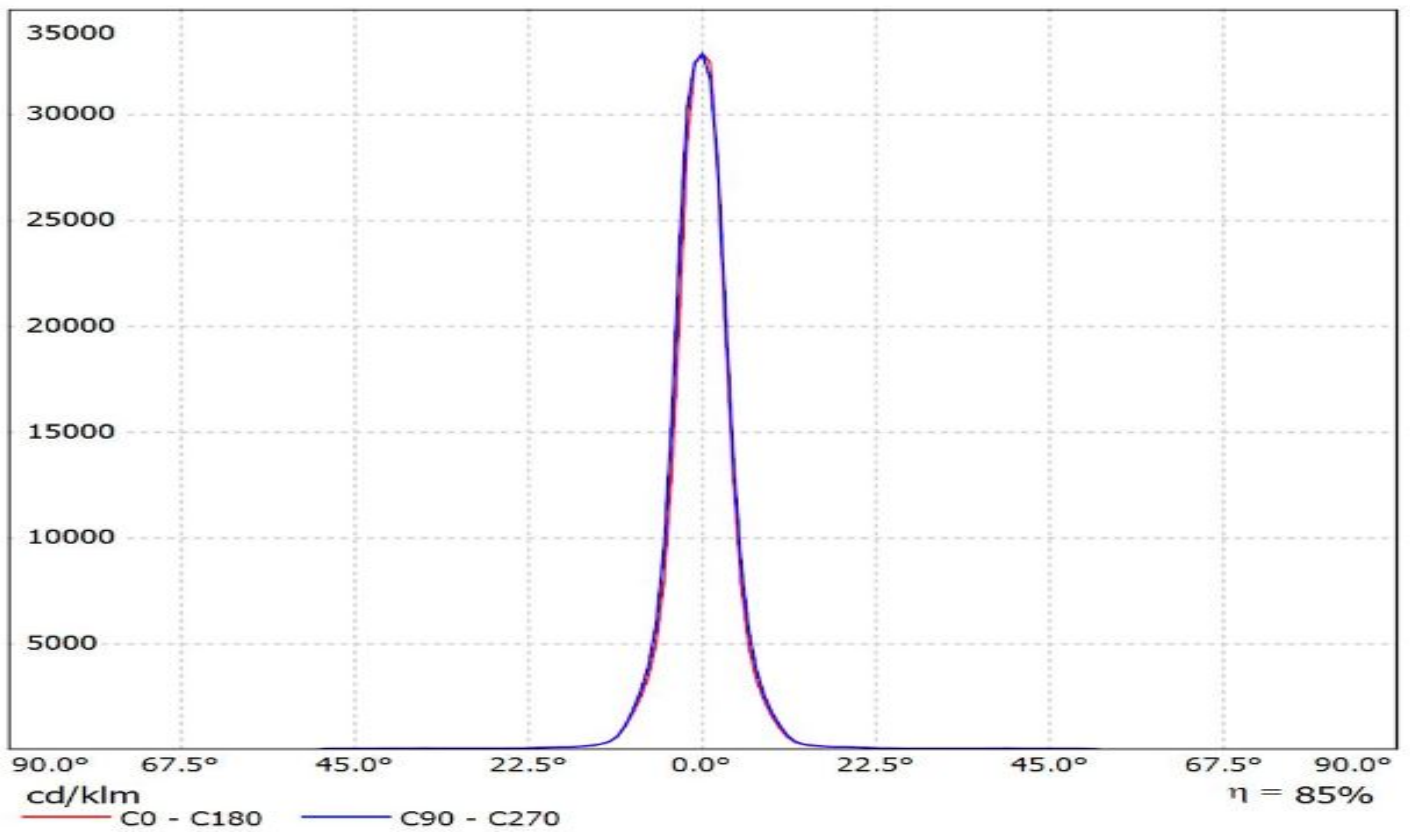
A

Luminaire: Ledil Oy FCN13595_CRYSTAL-MINE_(XP-G2)_SIMULATED
Lamps: 1 x Cree XP-G2



Ledil CN13595_CRYSTAL-MINE_(XP-L) / LDC (Linear)

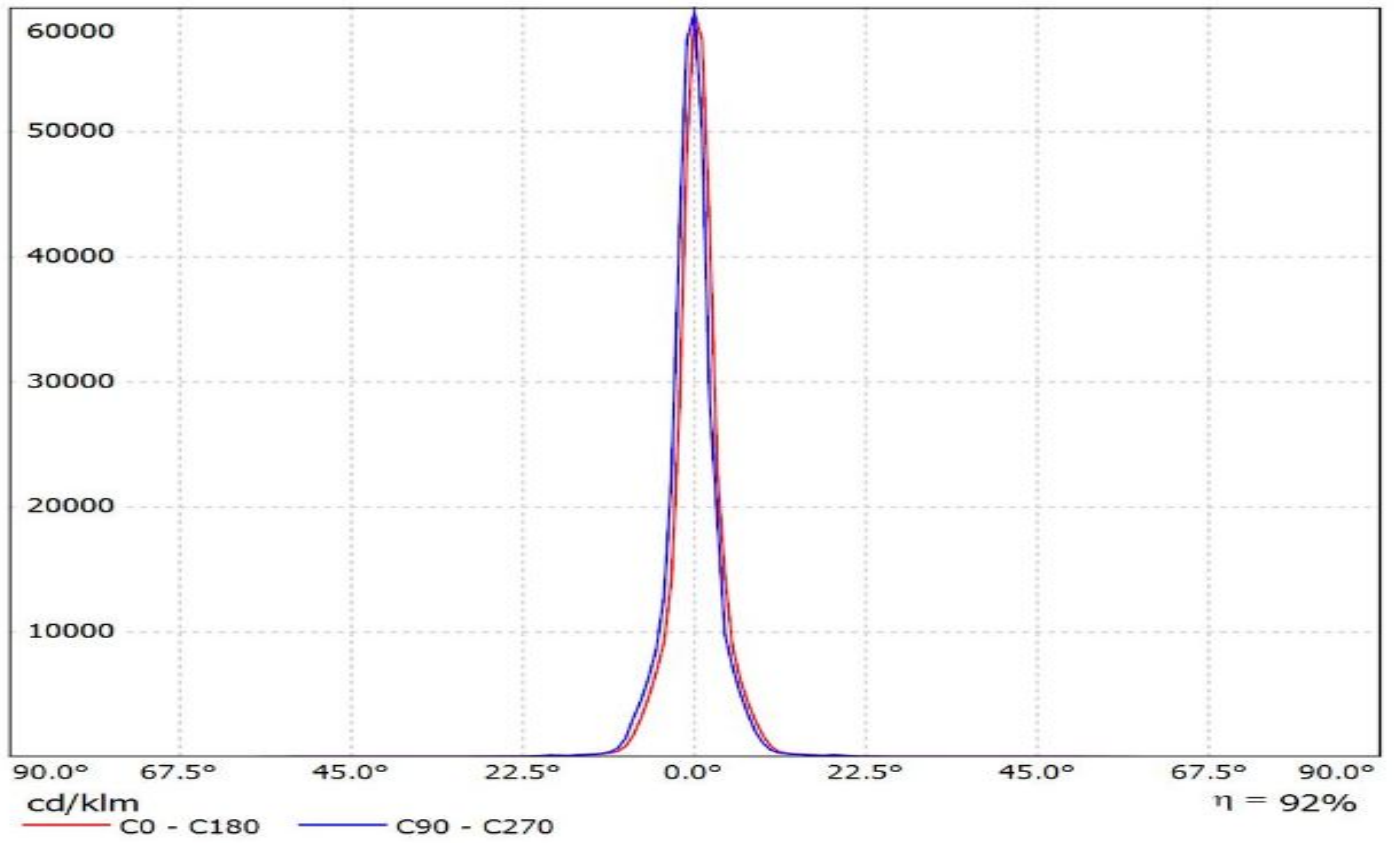
Luminaire: Ledil CN13595_CRYSTAL-MINE_(XP-L)
Lamps: 1 x CREE_XP-L_(XPLAWT-0-7A3-U50-0H-0001)
_107.852lm@250mA_CCT=3185K_P=0.7W_I=0.25A



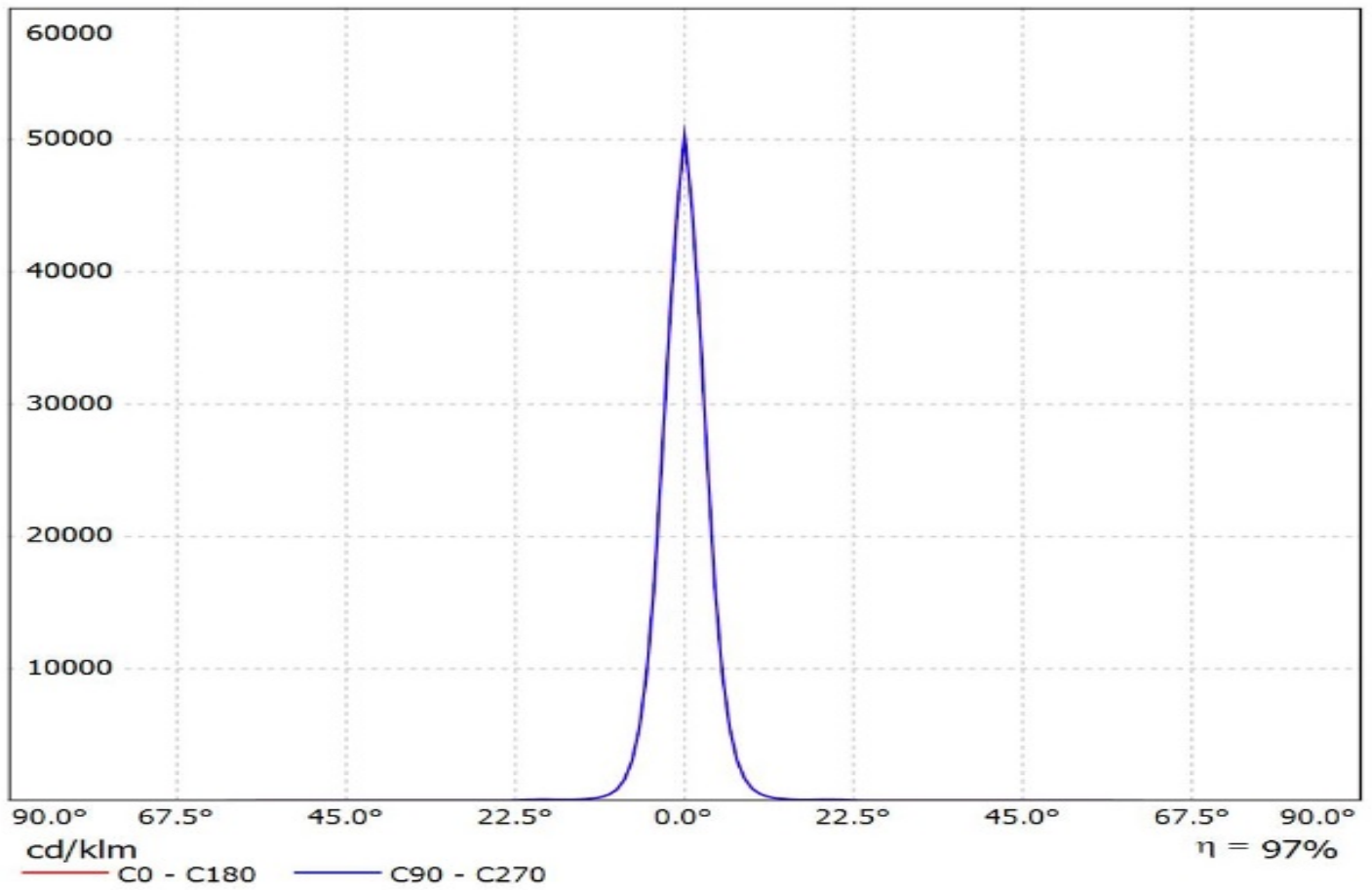
Ledil CN13595_CRYSTAL-MINE_(XP-L_HI) / LDC (Linear)

Luminaire: Ledil CN13595_CRYSTAL-MINE_(XP-L_HI)

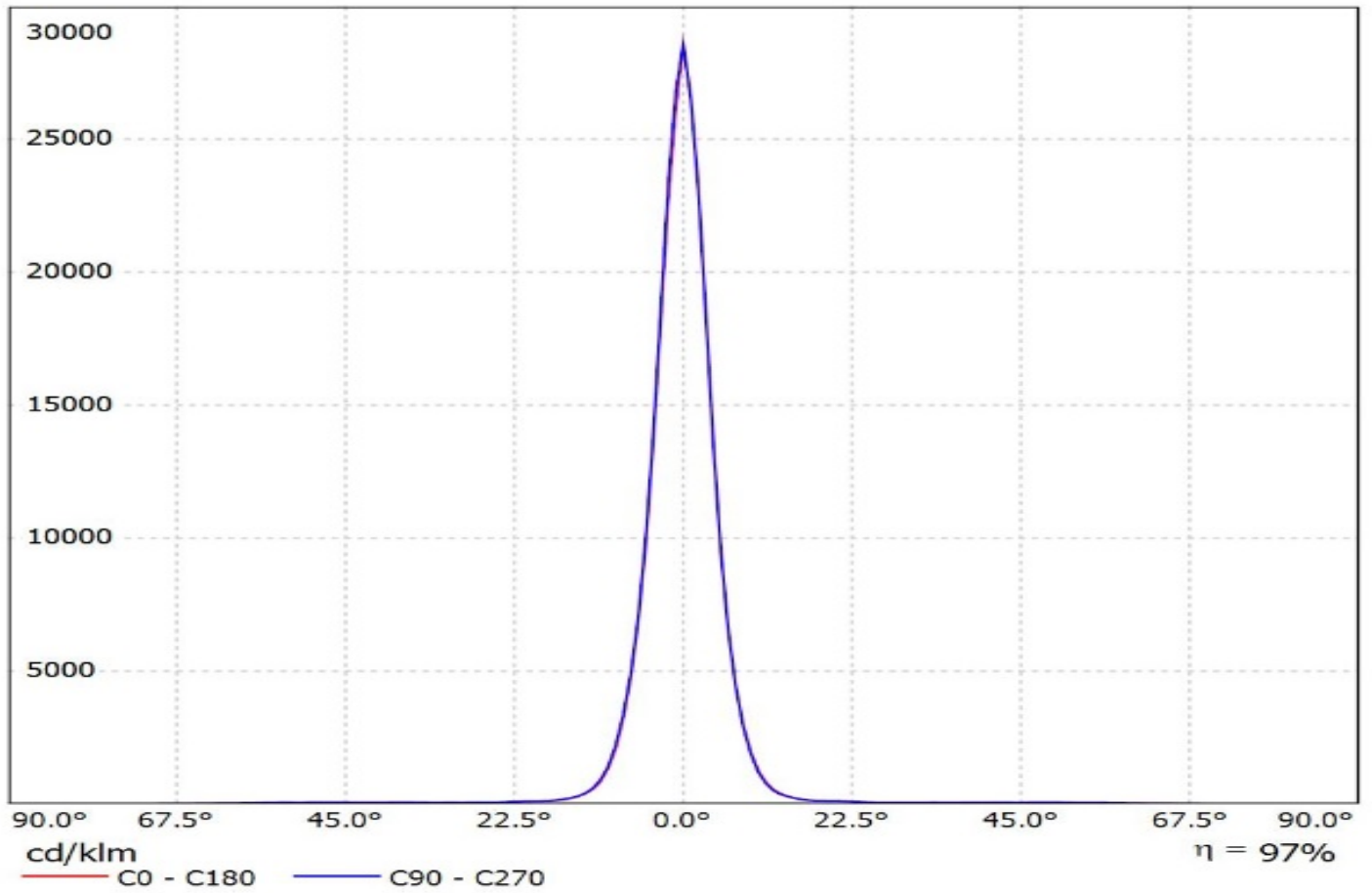
Lamps: 1 x Cree_XP-L_HI_21.6891lm@250mA_P=0.13W_I=0.05A



Luminaire: Ledil Oy FCN13595_CRYSTAL-MINE_(XHP35_HI)_SIMULATED
Lamps: 1 x Cree XHP35 HI

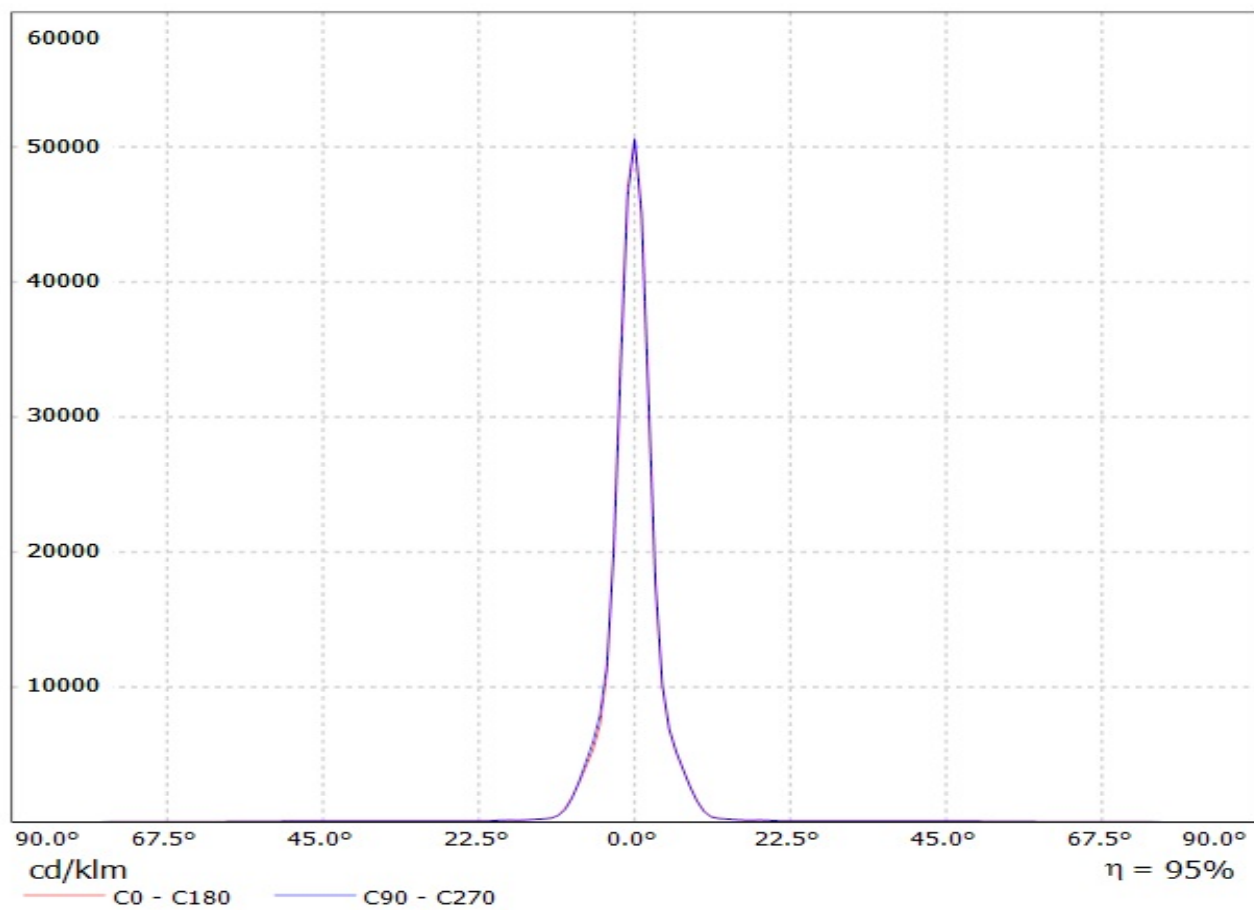


Luminaire: Ledil Oy FCN13595_CRYSTAL-MINE_(XHP35_HD)_SIMULATED
Lamps: 1 x Cree XHP35 HD

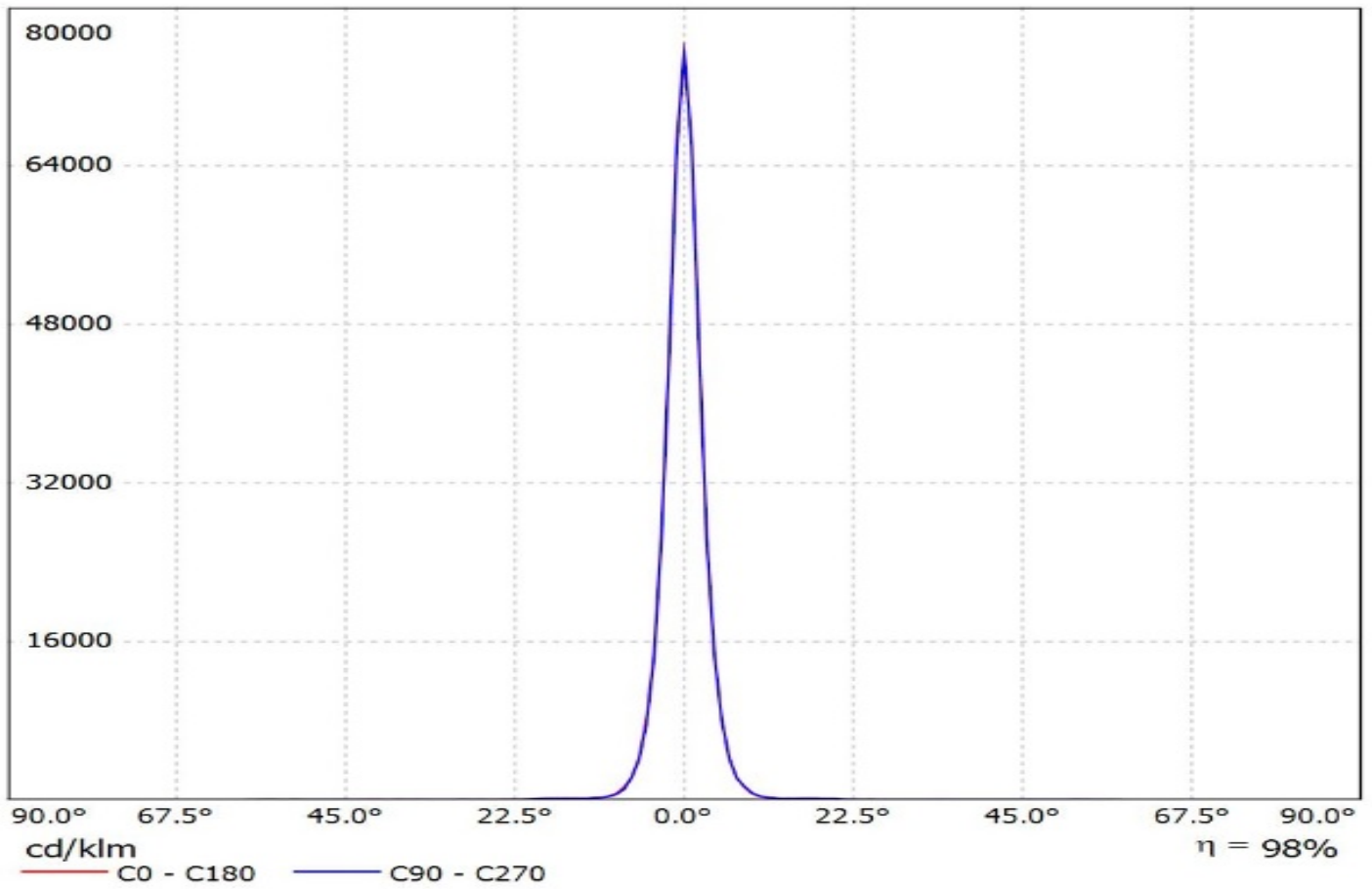


Luminaire: LEDiL Oy CN13595_CRYSTAL-MINE_(Luxeon_TX)

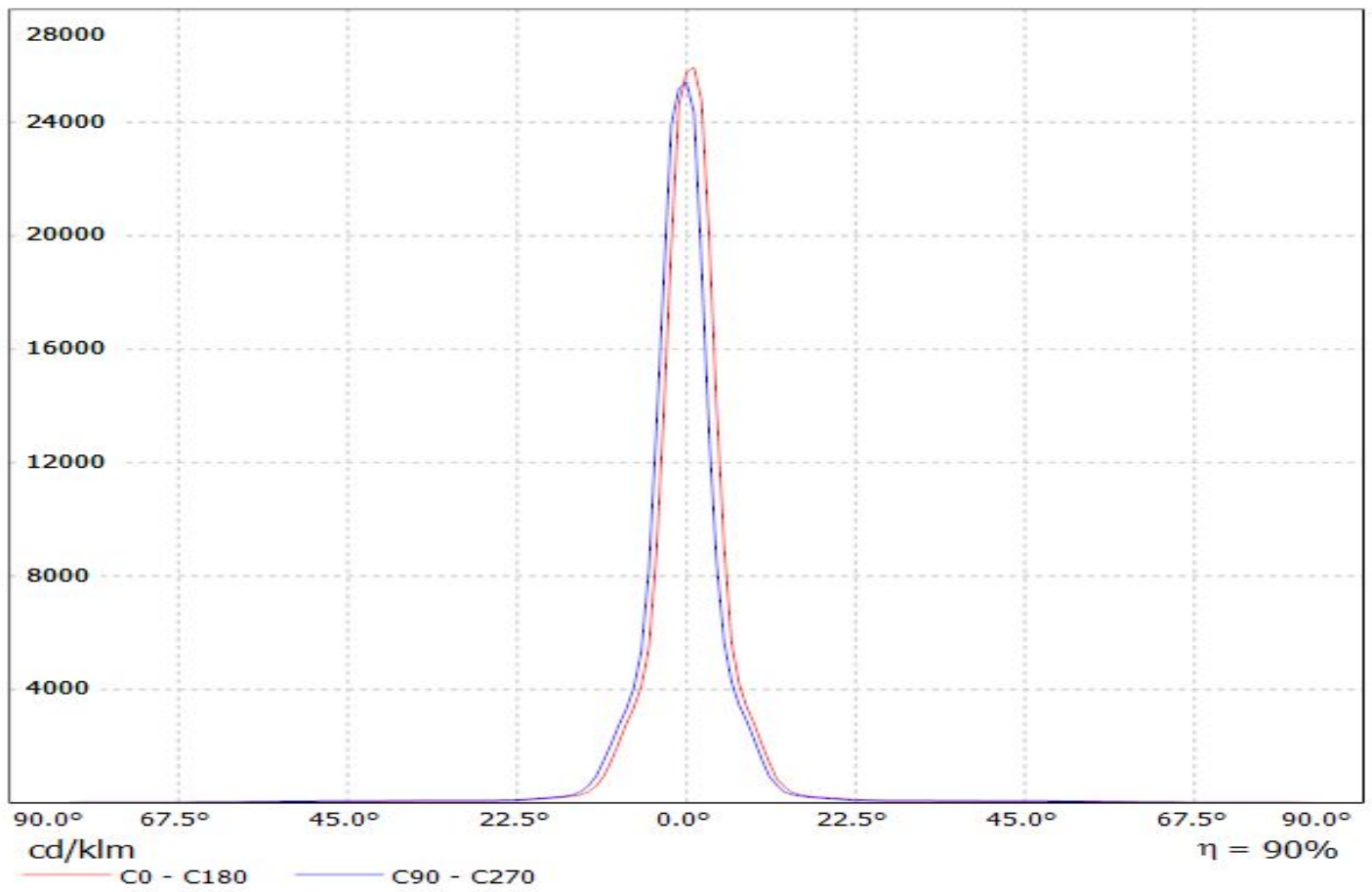
Lamps: 1 x Philips_Lumileds_Luxeon_TX_(L1T2-3585)_79.5244lm@250mA_CCT=3554K_P=0.740729W_I=0.2499A



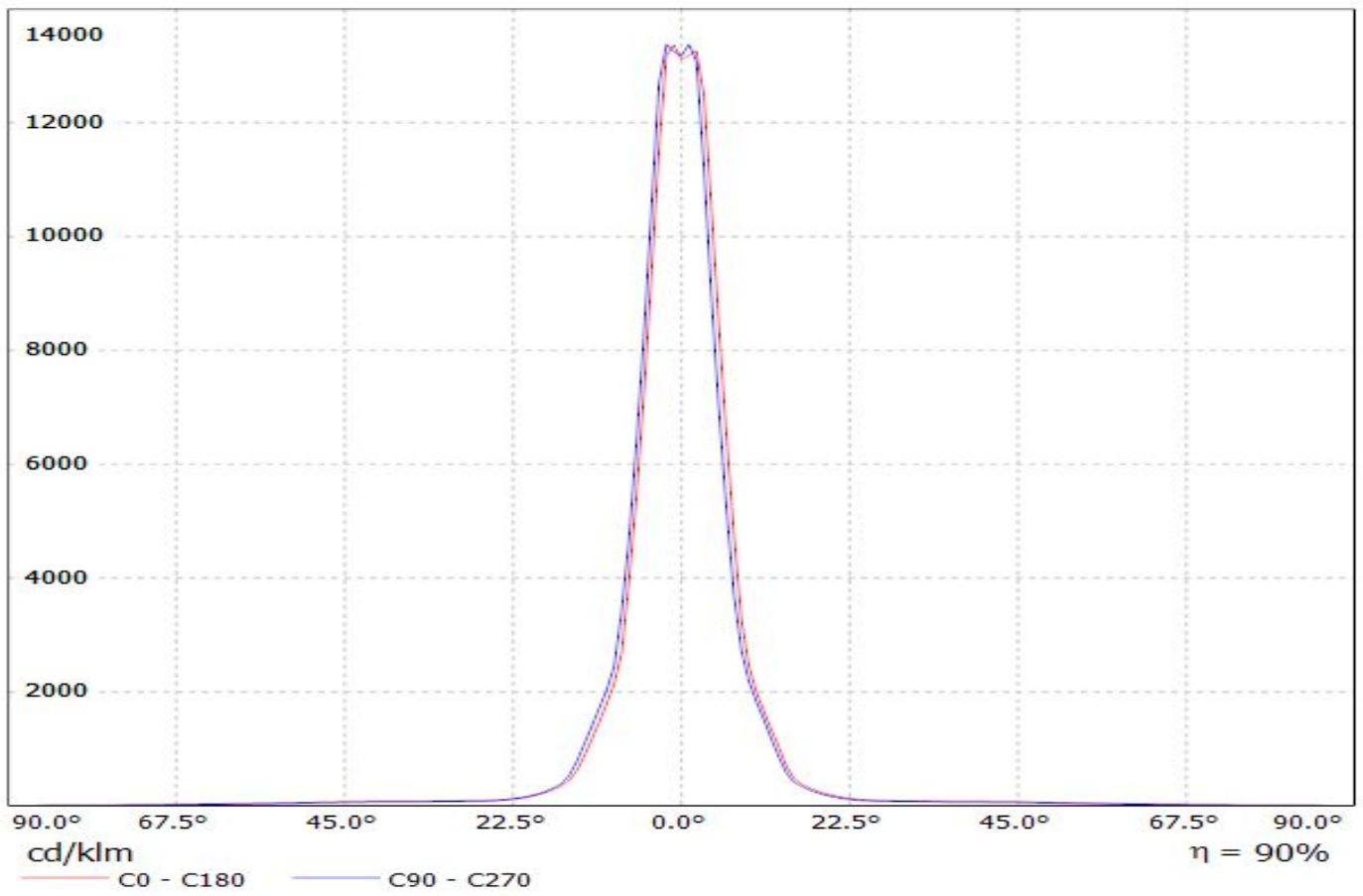
Luminaire: Ledil Oy FCN13595_CRYSTAL-MINE_(NCSxx19B)_SIMULATED
Lamps: 1 x Nichia NCSxx19B (NCSW219B)



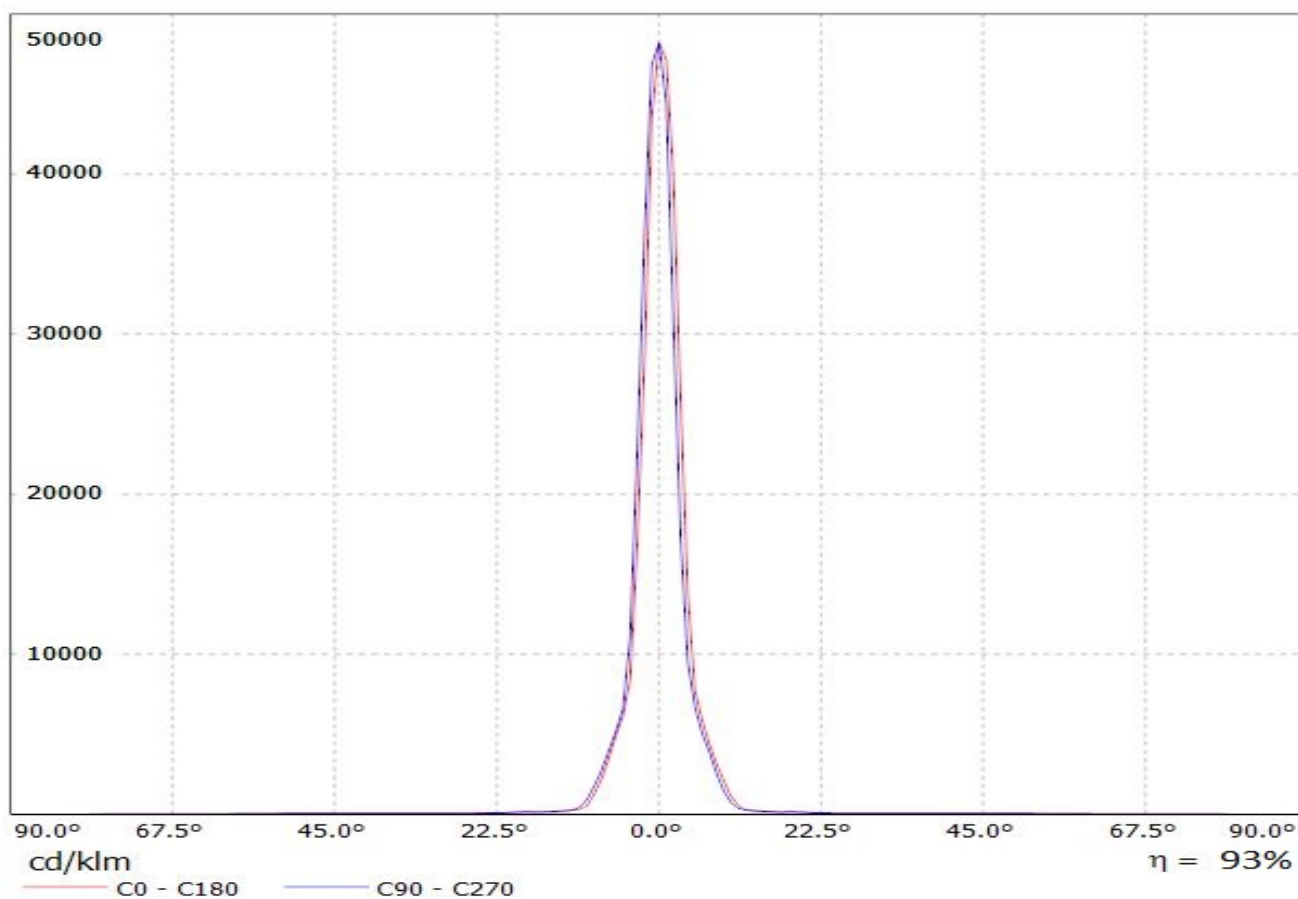
Luminaire: LEDiL Oy FCN13595_CRYSTAL-MINE_(NWSL229AE)
Lamps: 1 x Nichia_NWSL229AE_120.514lm@250mA_P=0.7132W_I=0.250A



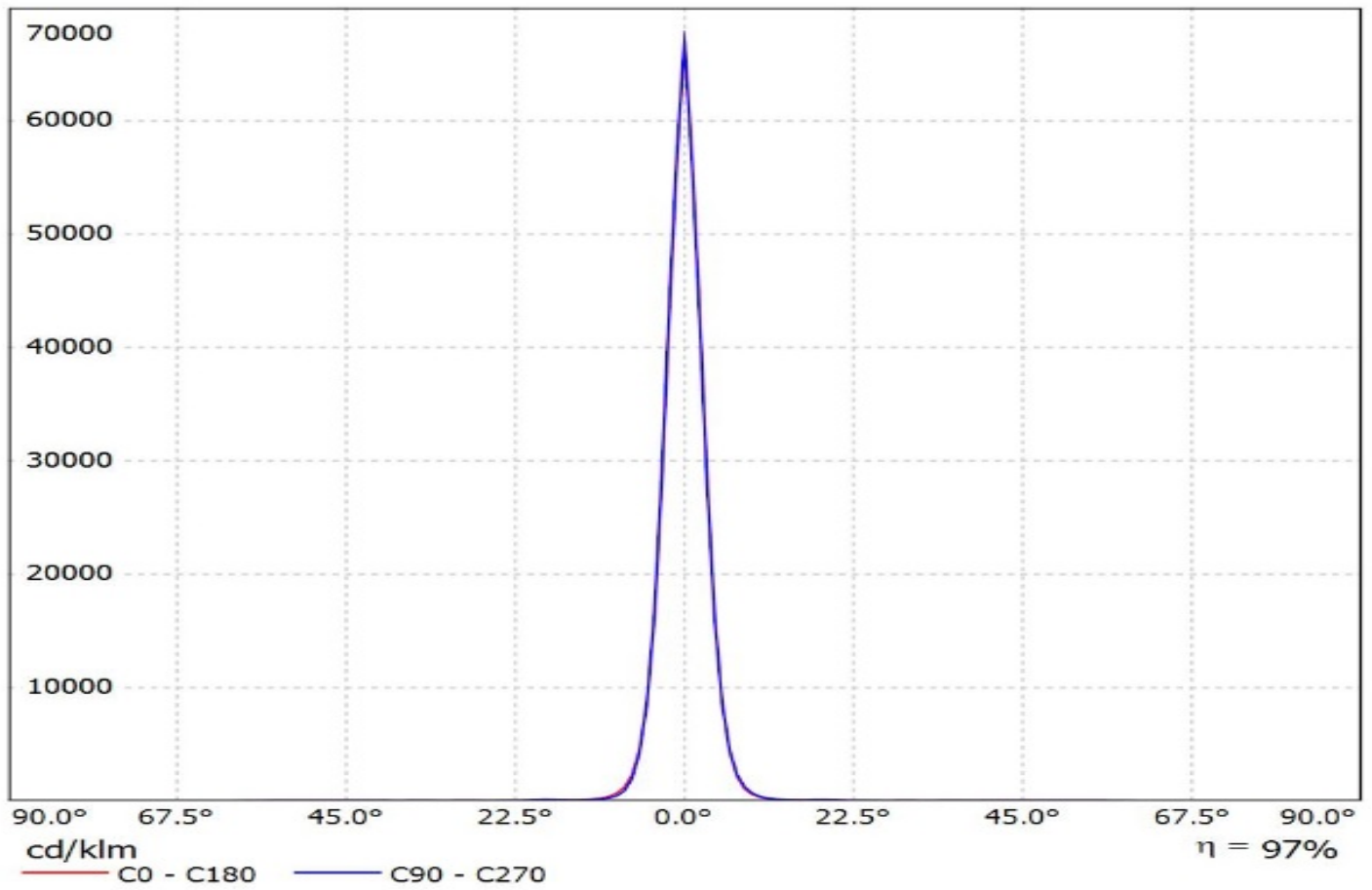
Luminaire: LEDiL Oy FCN13595_CRYSTAL-MINE_(Nichia_NV4x144A)
Lamps: 1 x Nichia_NV4x144A_478.709lm@250mA_P=2.8097W_I=0.250A



Luminaire: LEDiL Oy FCN13595_CRYSTAL-MINE_(NVSL219CE)
Lamps: 1 x Nichia_NVSL219CE_101.052lm@250mA_P=0.713154W_I=0.25A

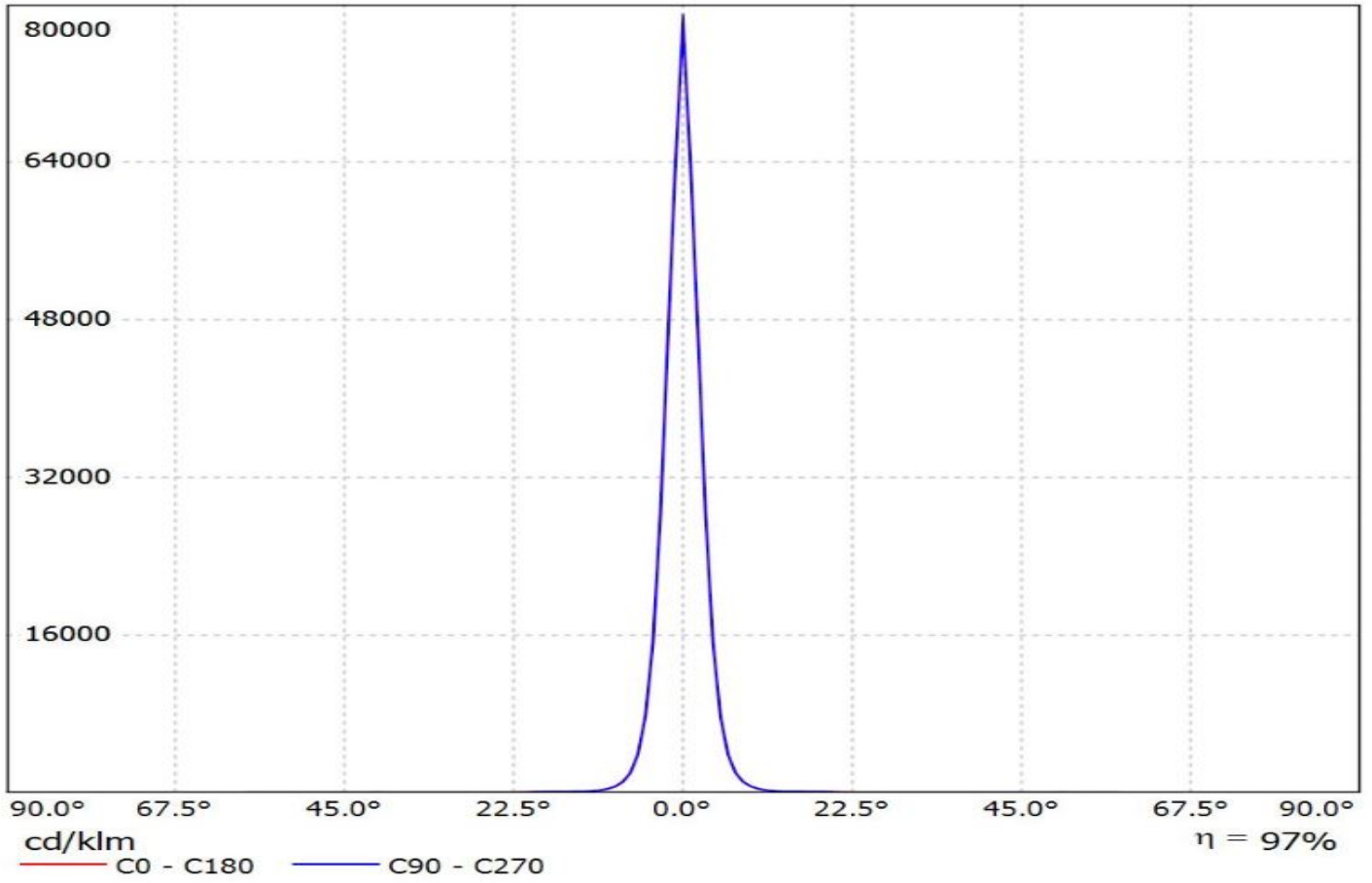


Luminaire: Ledil Oy FCN13595_CRYSTAL-MINE_(Oslon_Square_Gen3)_SIMULATED
Lamps: 1 x Osram Oslon Square Gen 3 - GW CSSRM2.PM

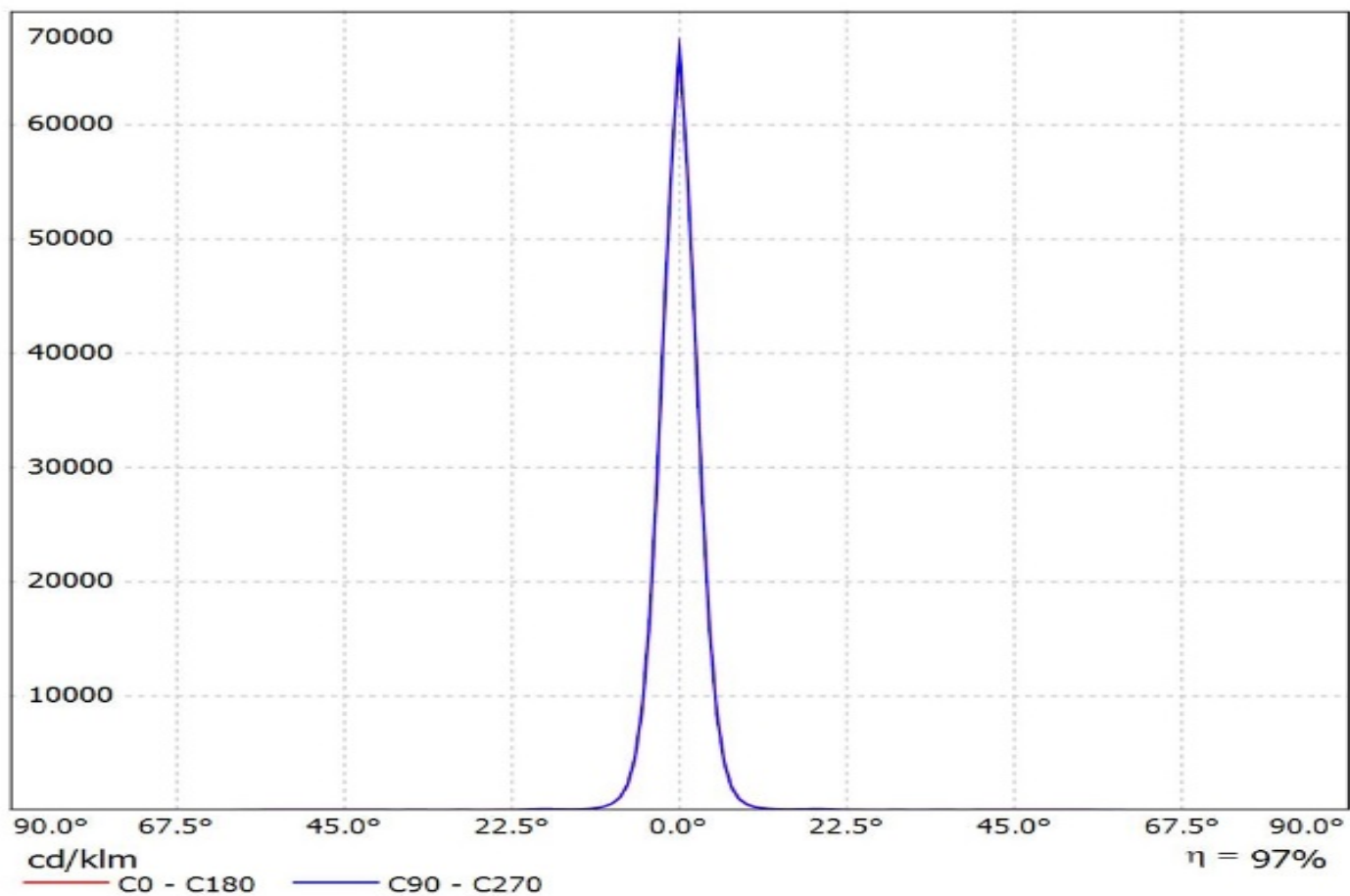


Luminaire: Ledil Oy FCN13595_CRYSTAL-MINE_SIMULATION FCN13595_CRYSTAL-MINE_SIMULATION

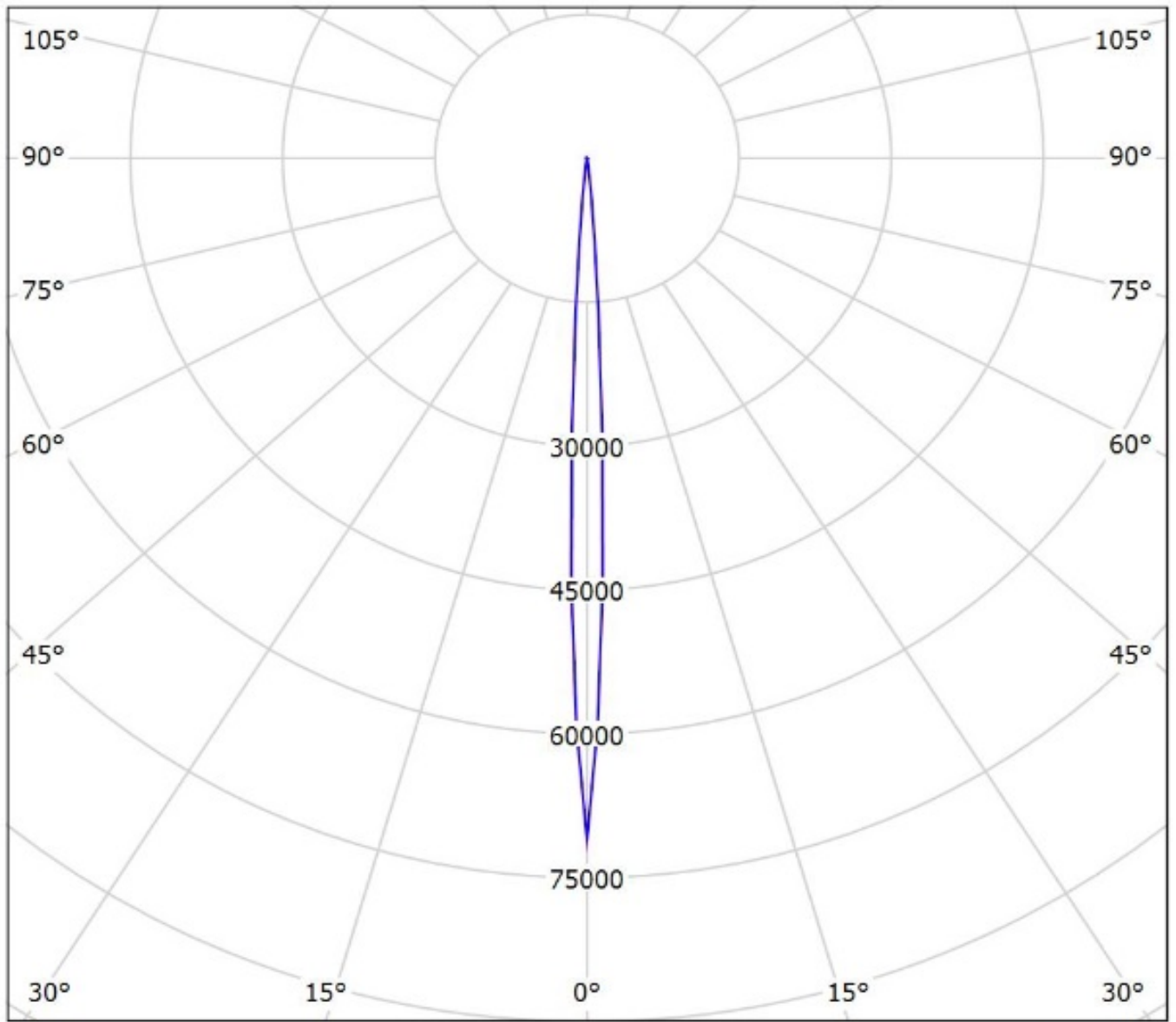
Lamps: 1 x OSRAM OSOLON Square Flat KW CSLPM2.PC - 1.00 W



Luminaire: Ledil Oy FCN13595_CRYSTAL-MINE_(Z5M2)_SIMULATED
Lamps: 1 x Seoul Z5M2 - SZ5-M2-W0-00



Luminaire: Ledil Oy FCN13595_CRYSTAL-MINE_(XP-G2)_SIMULATED
Lamps: 1 x Cree XP-G2

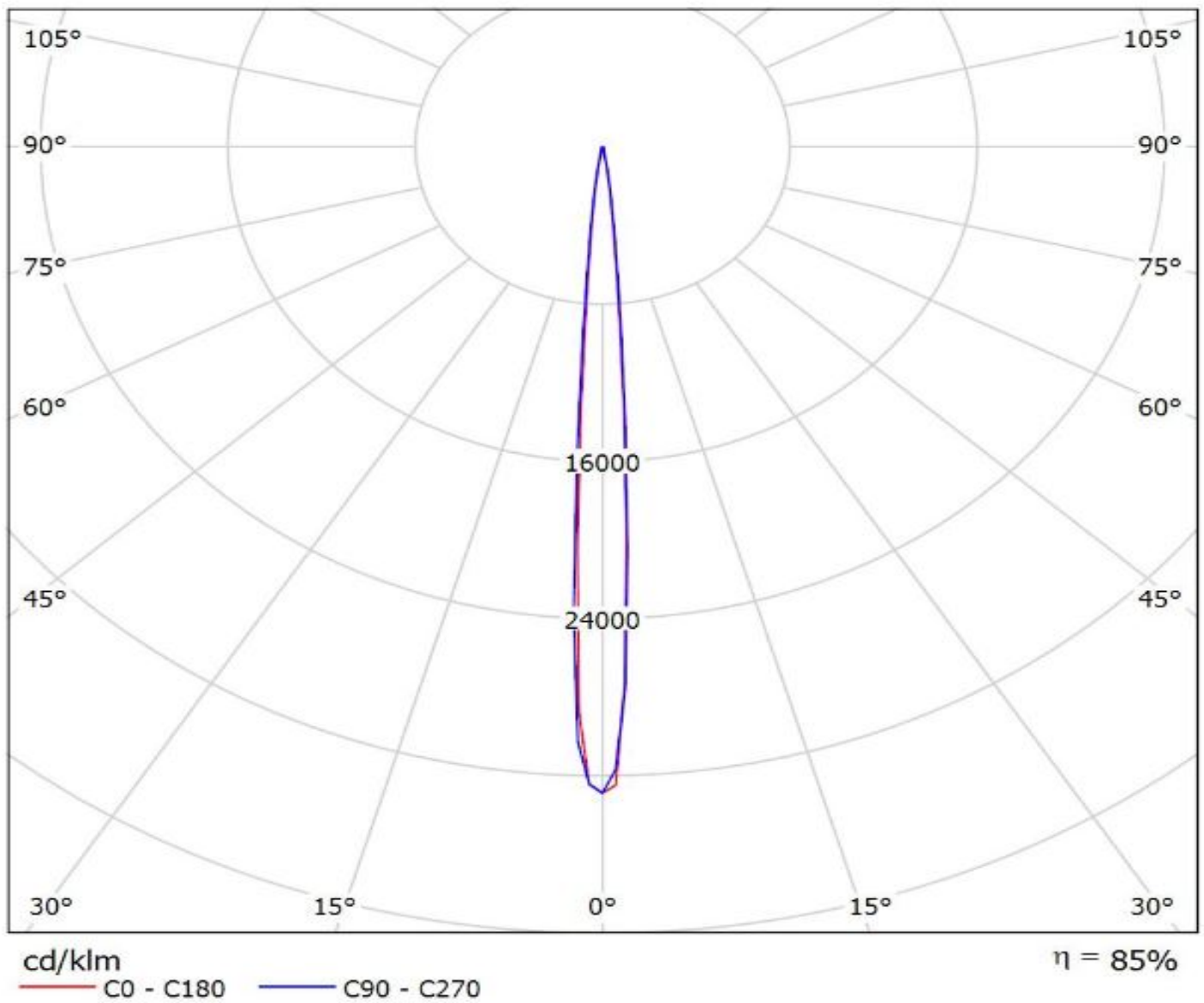


cd/klm
— C0 - C180 — C90 - C270

$\eta = 95\%$

Ledil CN13595_CRYSTAL-MINE_(XP-L) / LDC (Polar)

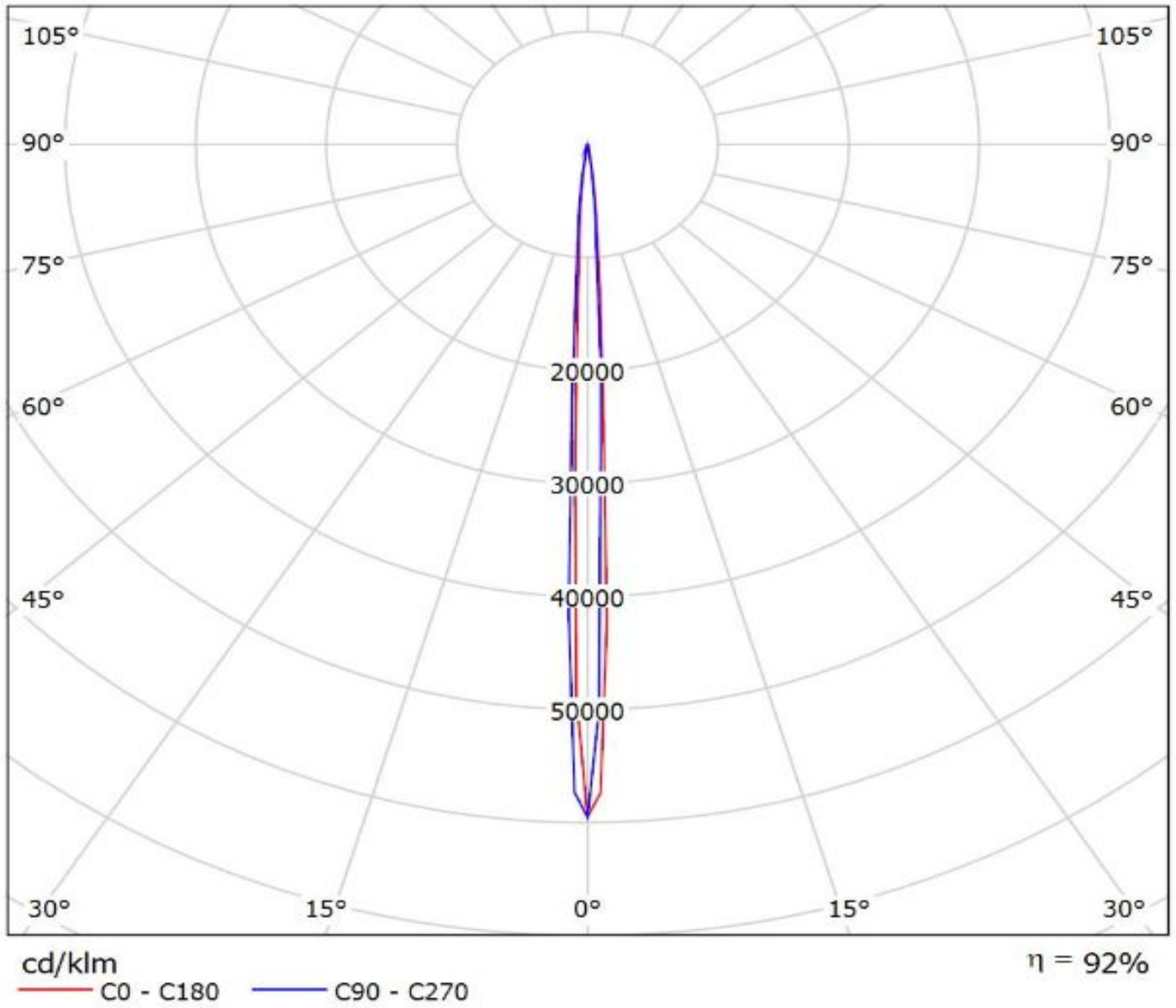
Luminaire: Ledil CN13595_CRYSTAL-MINE_(XP-L)
Lamps: 1 x CREE_XP-L_(XPLAWT-0-7A3-U50-0H-0001)
_107.852lm@250mA_CCT=3185K_P=0.7W_I=0.25A



Ledil CN13595_CRYSTAL-MINE_(XP-L_HI) / LDC (Polar)

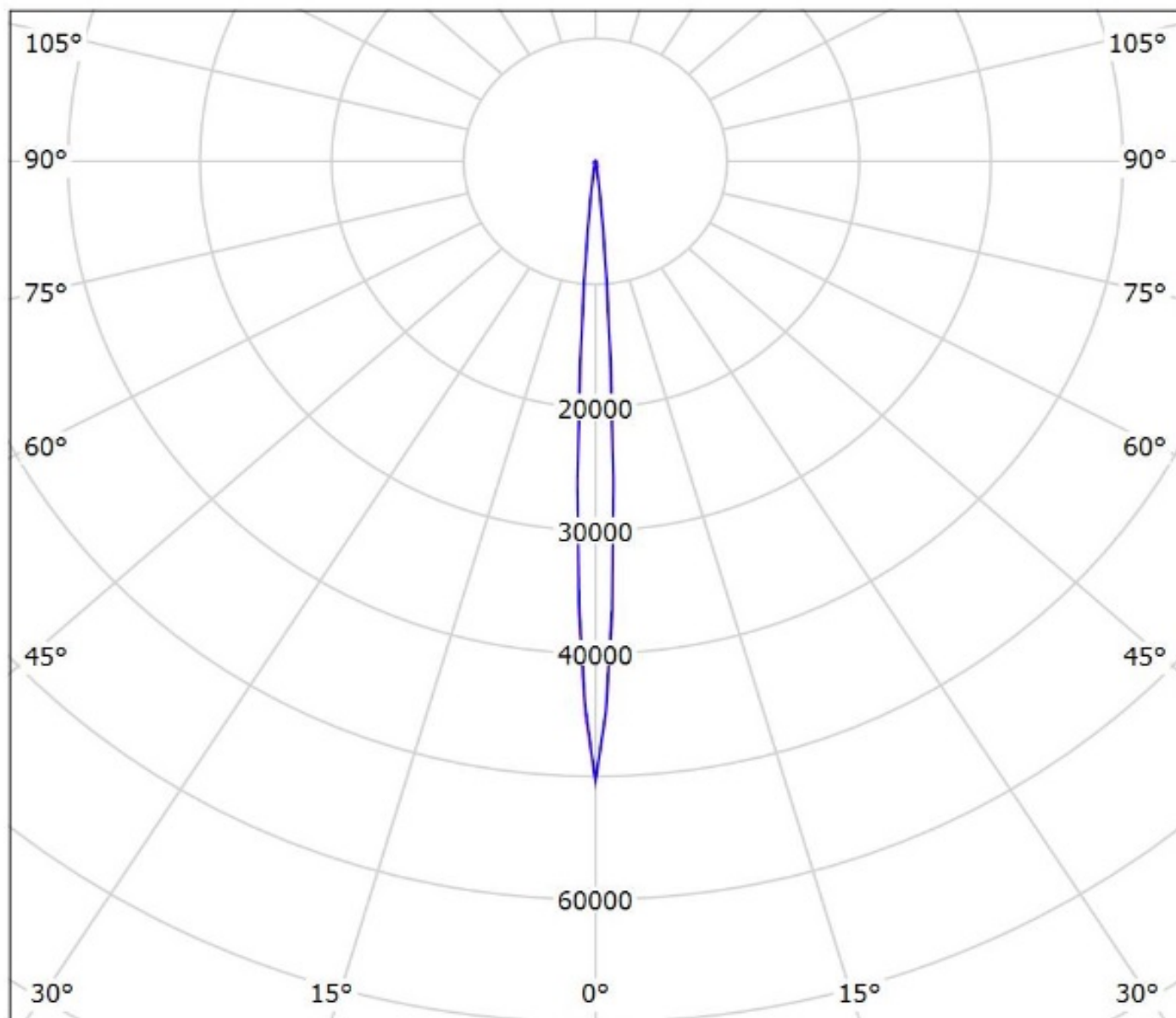
Luminaire: Ledil CN13595_CRYSTAL-MINE_(XP-L_HI)

Lamps: 1 x Cree_XP-L_HI_21.6891lm@250mA_P=0.13W_I=0.05A



Luminaire: Ledil Oy FCN13595_CRYSTAL-MINE_(XHP35_HI)_SIMULATED

Lamps: 1 x Cree XHP35 HI



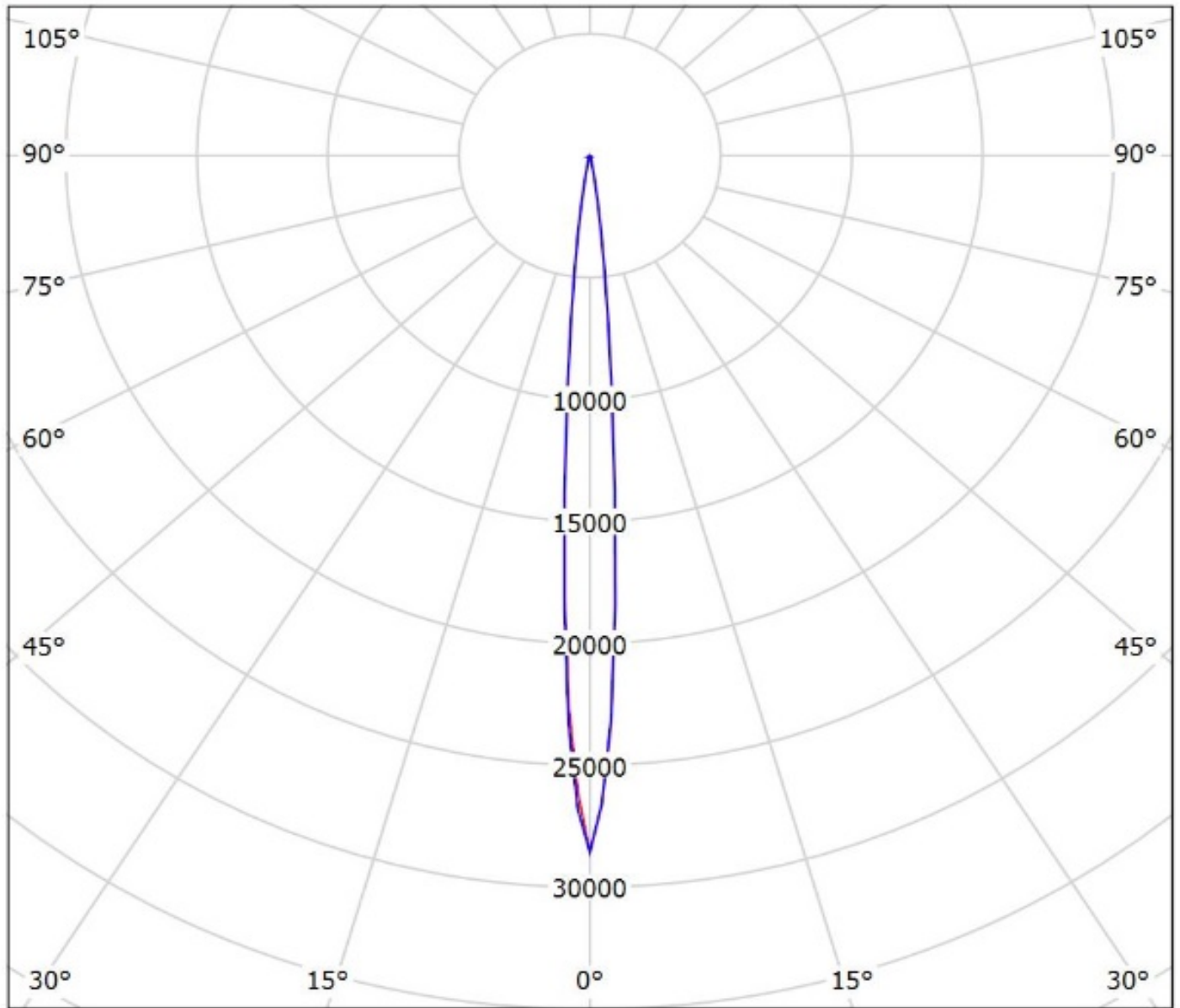
cd/klm

— C0 - C180

— C90 - C270

$\eta = 97\%$

Luminaire: Ledil Oy FCN13595_CRYSTAL-MINE_(XHP35_HD)_SIMULATED
Lamps: 1 x Cree XHP35 HD



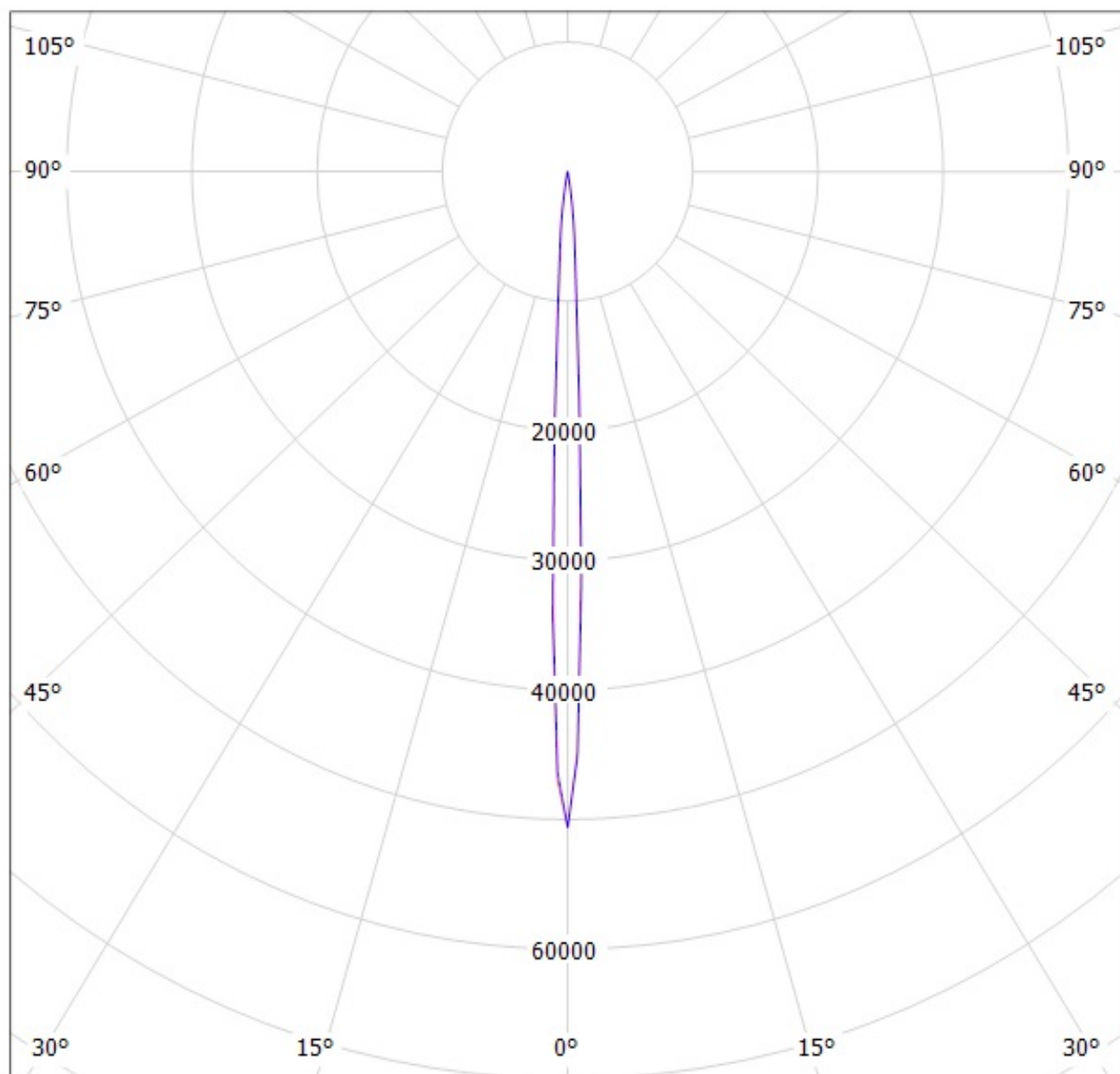
cd/klm

— C0 - C180 — C90 - C270

$\eta = 97\%$

Luminaire: LEDiL Oy CN13595_CRYSTAL-MINE_(Luxeon_TX)

Lamps: 1 x Philips_Lumileds_Luxeon_TX_(L1T2-3585)_79.5244lm@250mA_CCT=3554K_P=0.740729W_I=0.2499A

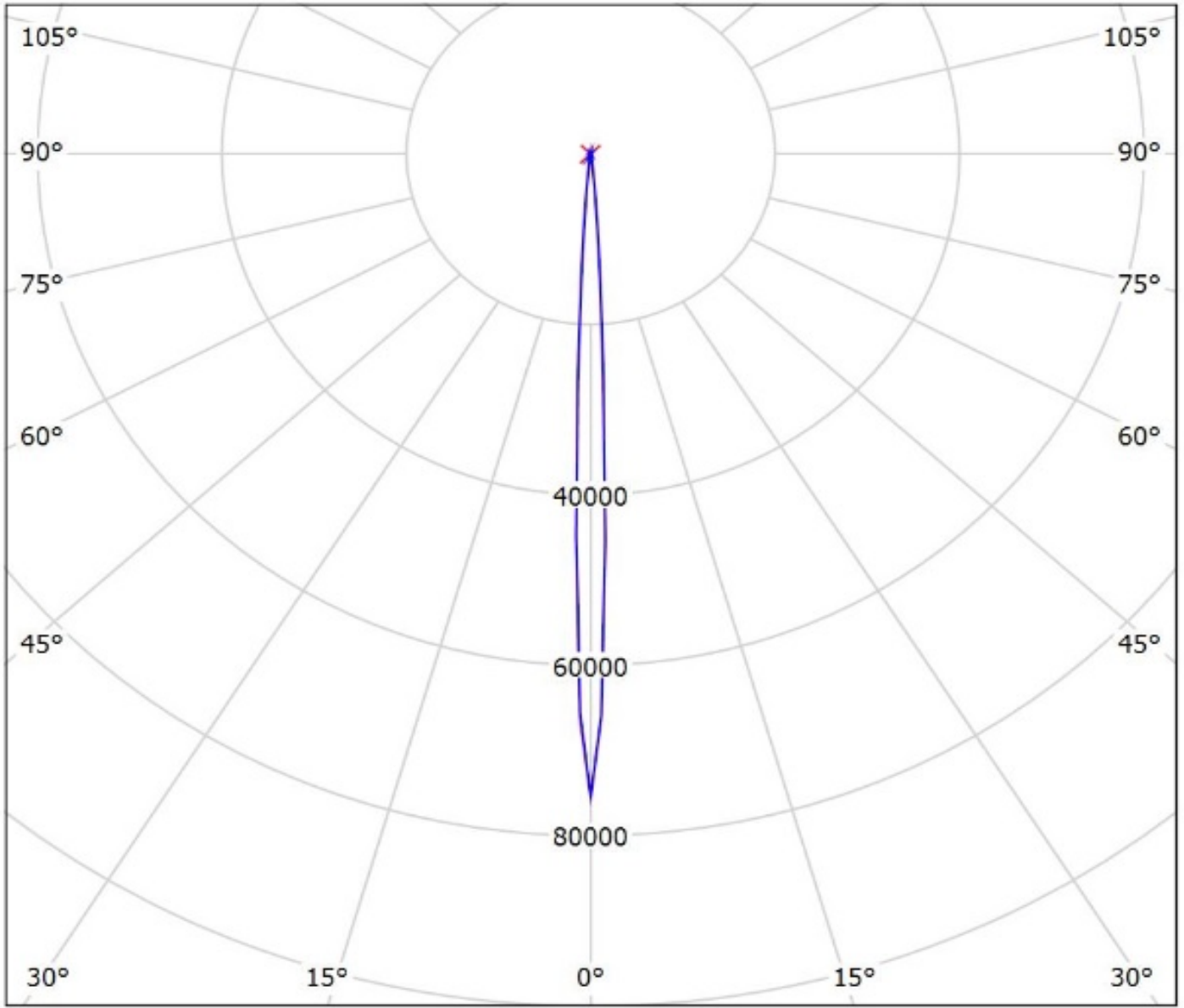


cd/klm

— C0 - C180 — C90 - C270

$\eta = 95\%$

Luminaire: Ledil Oy FCN13595_CRYSTAL-MINE_(NCSxx19B)_SIMULATED
Lamps: 1 x Nichia NCSxx19B (NCSW219B)

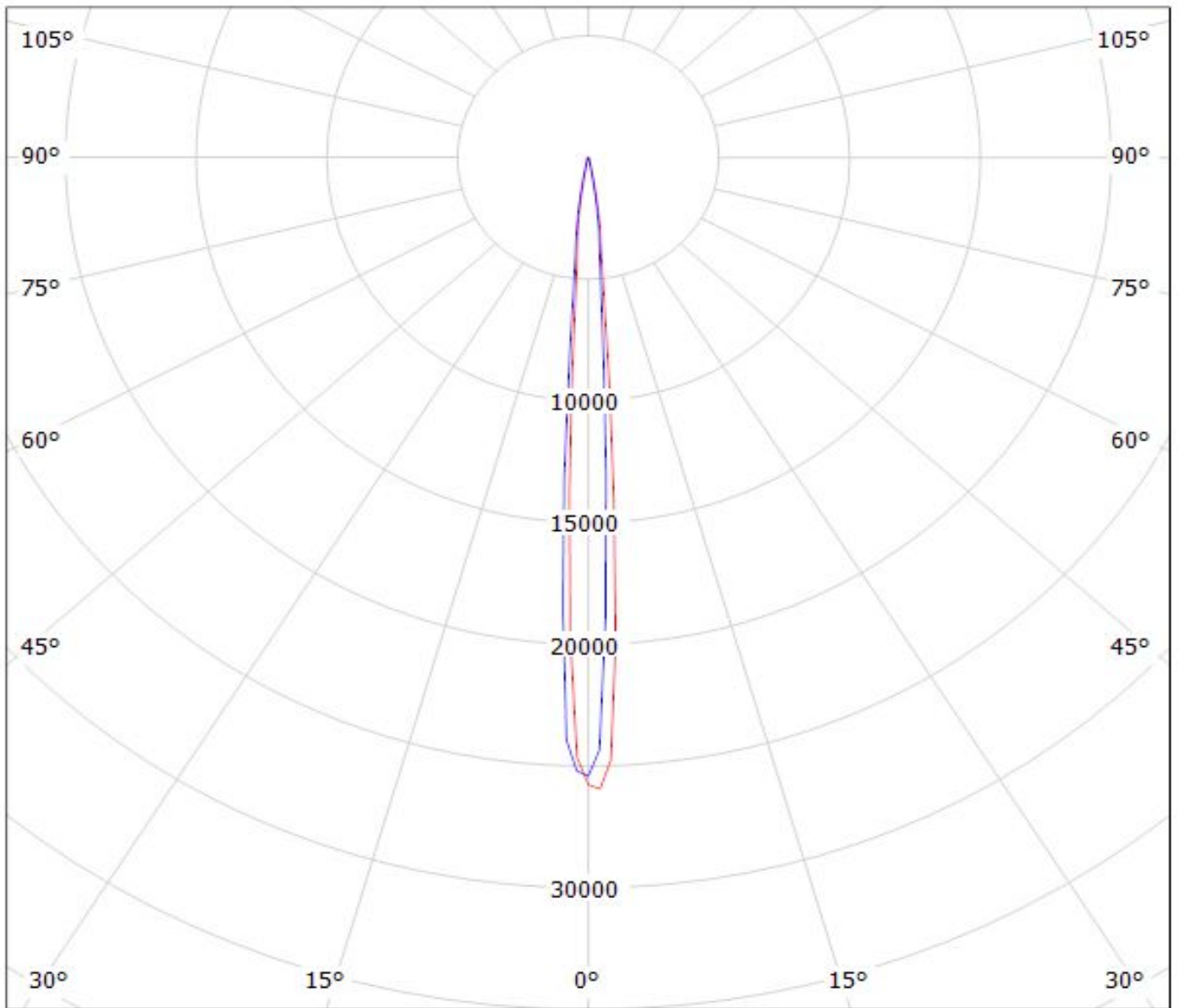


cd/klm
— C0 - C180 — C90 - C270

$\eta = 98\%$

Luminaire: LEDiL Oy FCN13595_CRYSTAL-MINE_(NWSL229AE)

Lamps: 1 x Nichia_NWSL229AE_120.514lm@250mA_P=0.7132W_I=0.250A



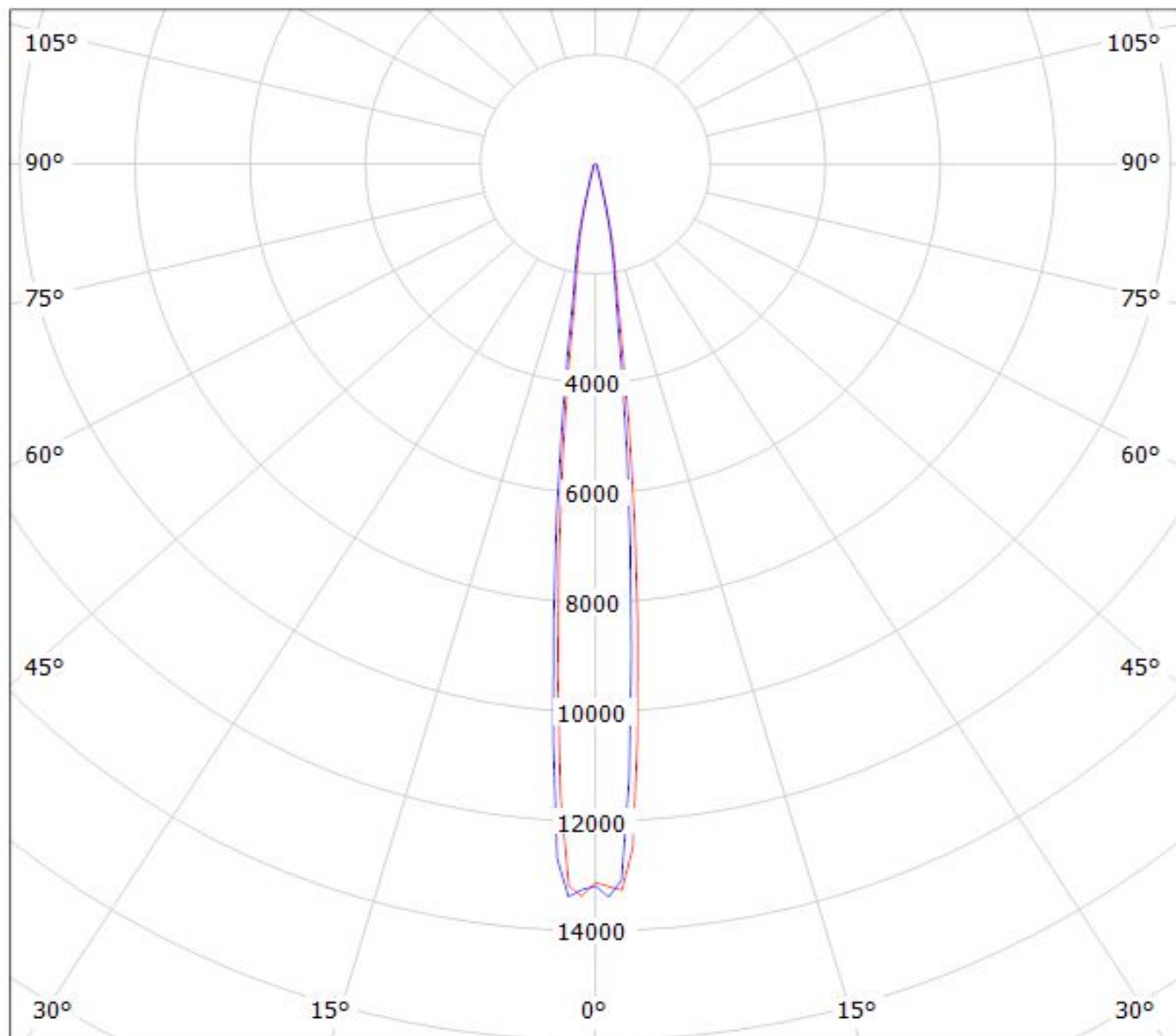
cd/klm

— C0 - C180

— C90 - C270

$\eta = 90\%$

Luminaire: LEDiL Oy FCN13595_CRYSTAL-MINE_(Nichia_NV4x144A)
Lamps: 1 x Nichia_NV4x144A_478.709lm@250mA_P=2.8097W_I=0.250A



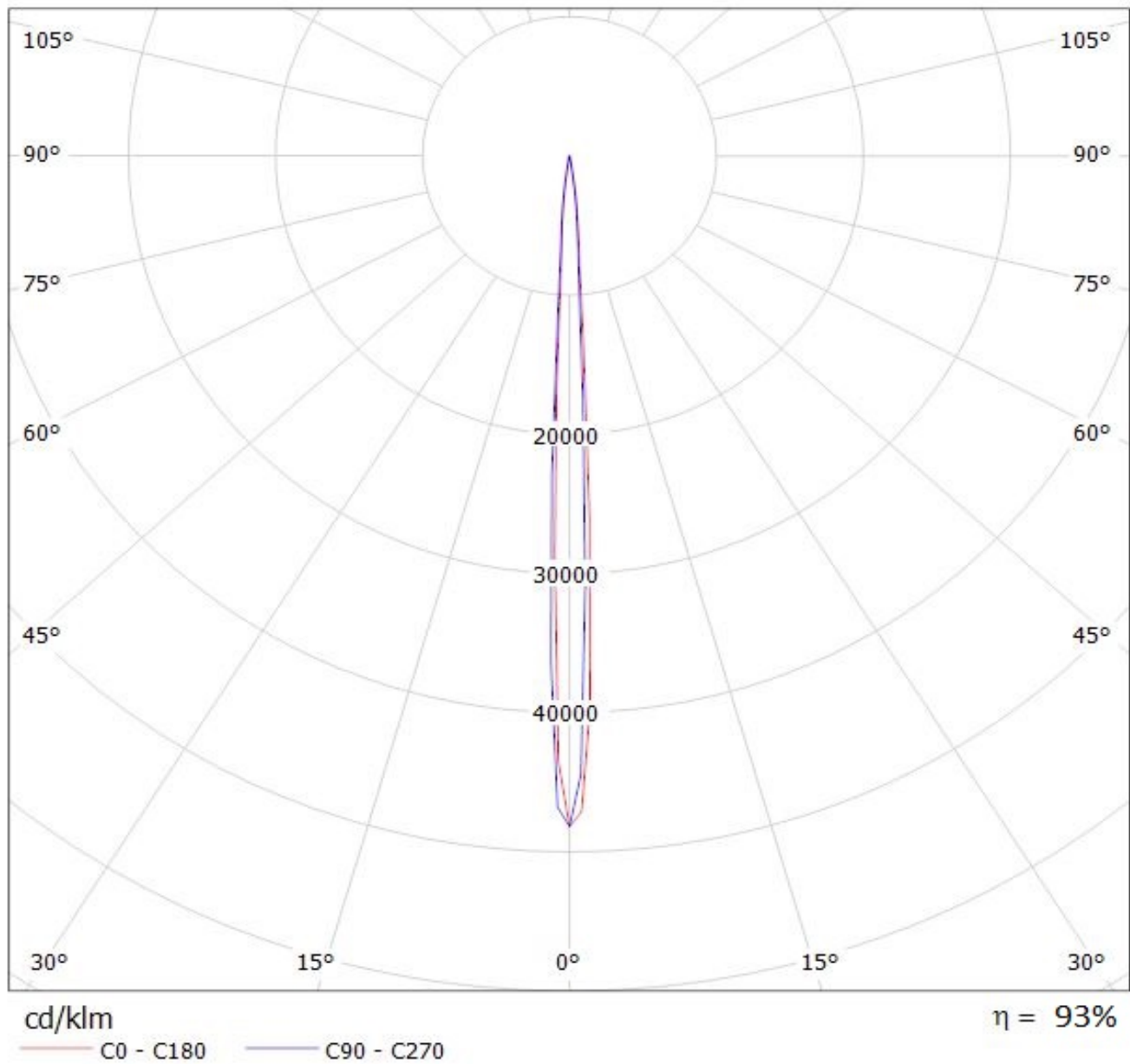
cd/klm

— C0 - C180

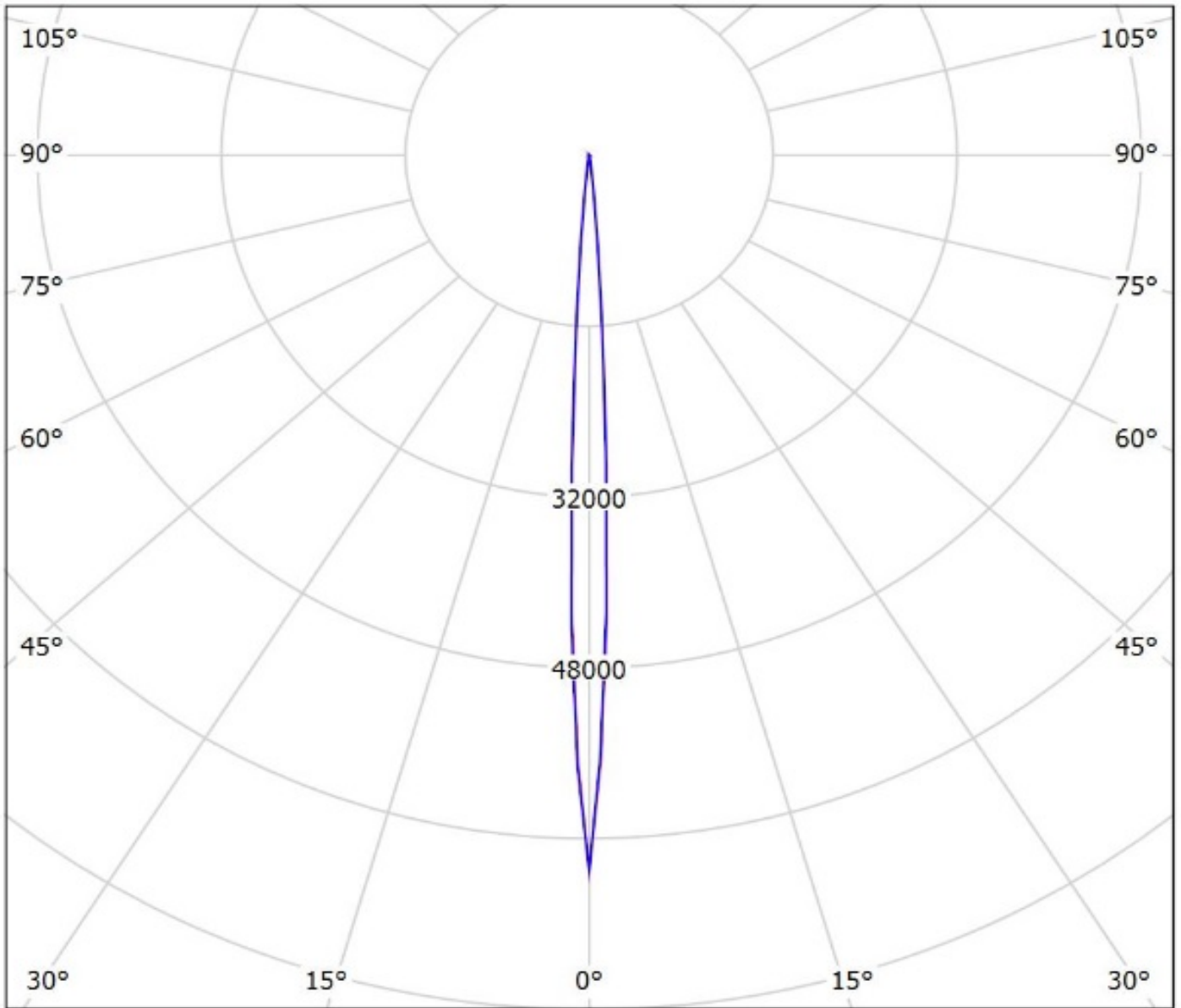
— C90 - C270

$\eta = 90\%$

Luminaire: LEDiL Oy FCN13595_CRYSTAL-MINE_(NVSL219CE)
Lamps: 1 x Nichia_NVSL219CE_101.052lm@250mA_P=0.713154W_I=0.25A



Luminaire: Ledil Oy FCN13595_CRYSTAL-MINE_(Oslon_Square_Gen3)_SIMULATED
Lamps: 1 x Osram Oslon Square Gen 3 - GW CSSRM2.PM

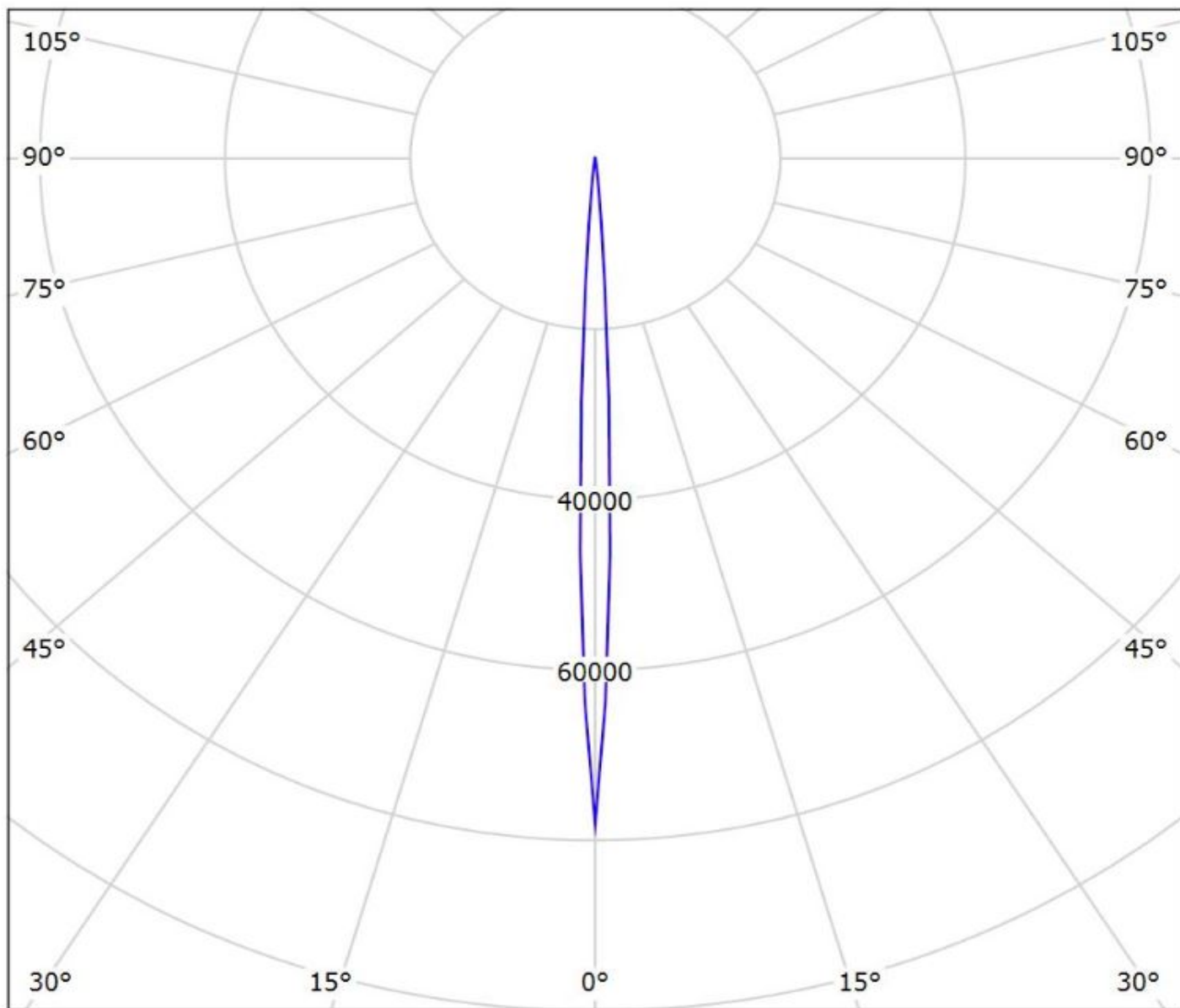


cd/klm
— C0 - C180 — C90 - C270

$\eta = 97\%$

Luminaire: Ledil Oy FCN13595_CRYSTAL-MINE_SIMULATION FCN13595_CRYSTAL-MINE_SIMULATION

Lamps: 1 x OSRAM OSOLON Square Flat KW CSLPM2.PC - 1.00 W



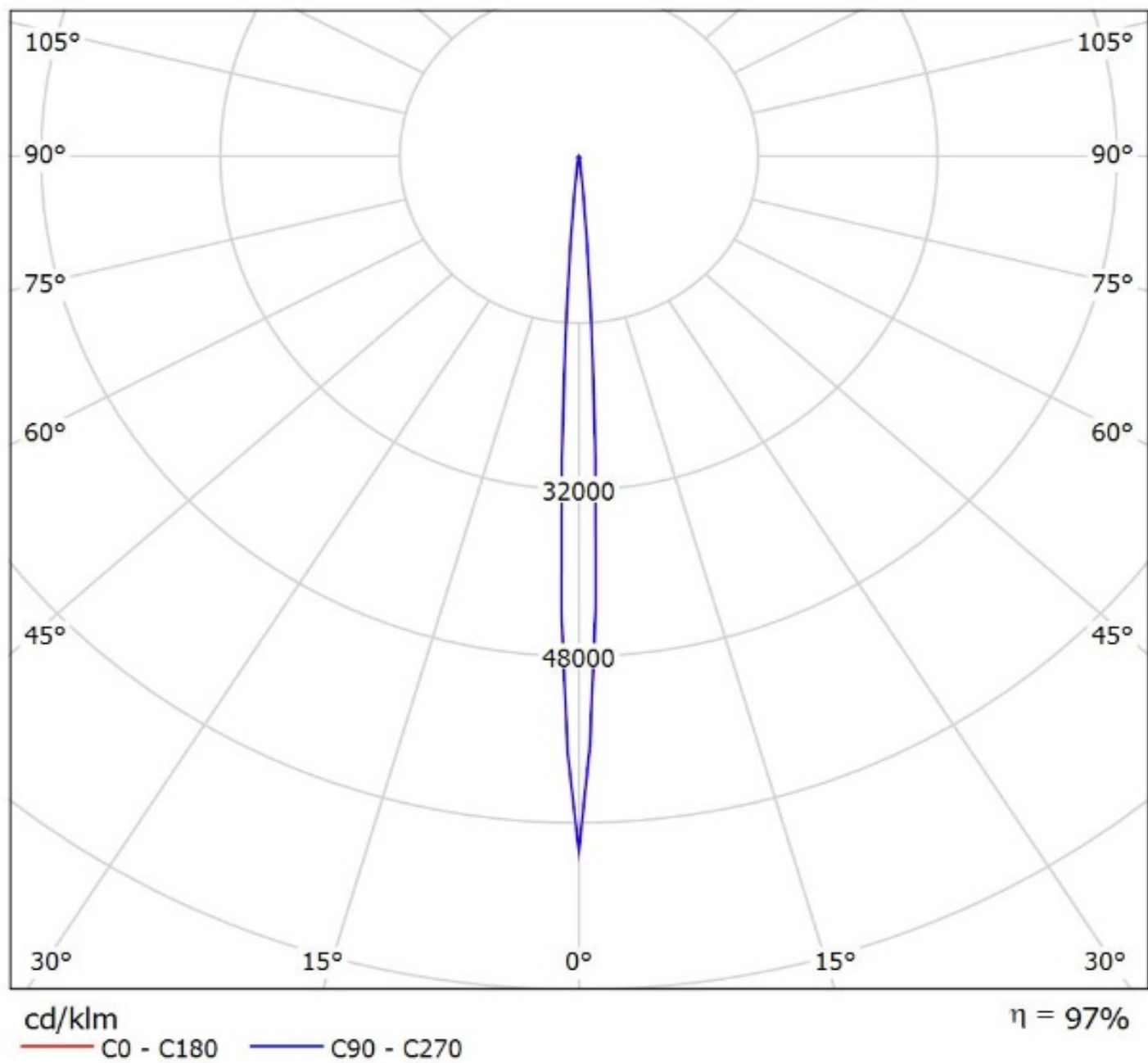
cd/klm

— C0 - C180 — C90 - C270

$\eta = 97\%$

Luminaire: Ledil Oy FCN13595_CRYSTAL-MINE_(Z5M2)_SIMULATED

Lamps: 1 x Seoul Z5M2 - SZ5-M2-W0-00



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.