

## DETAILS

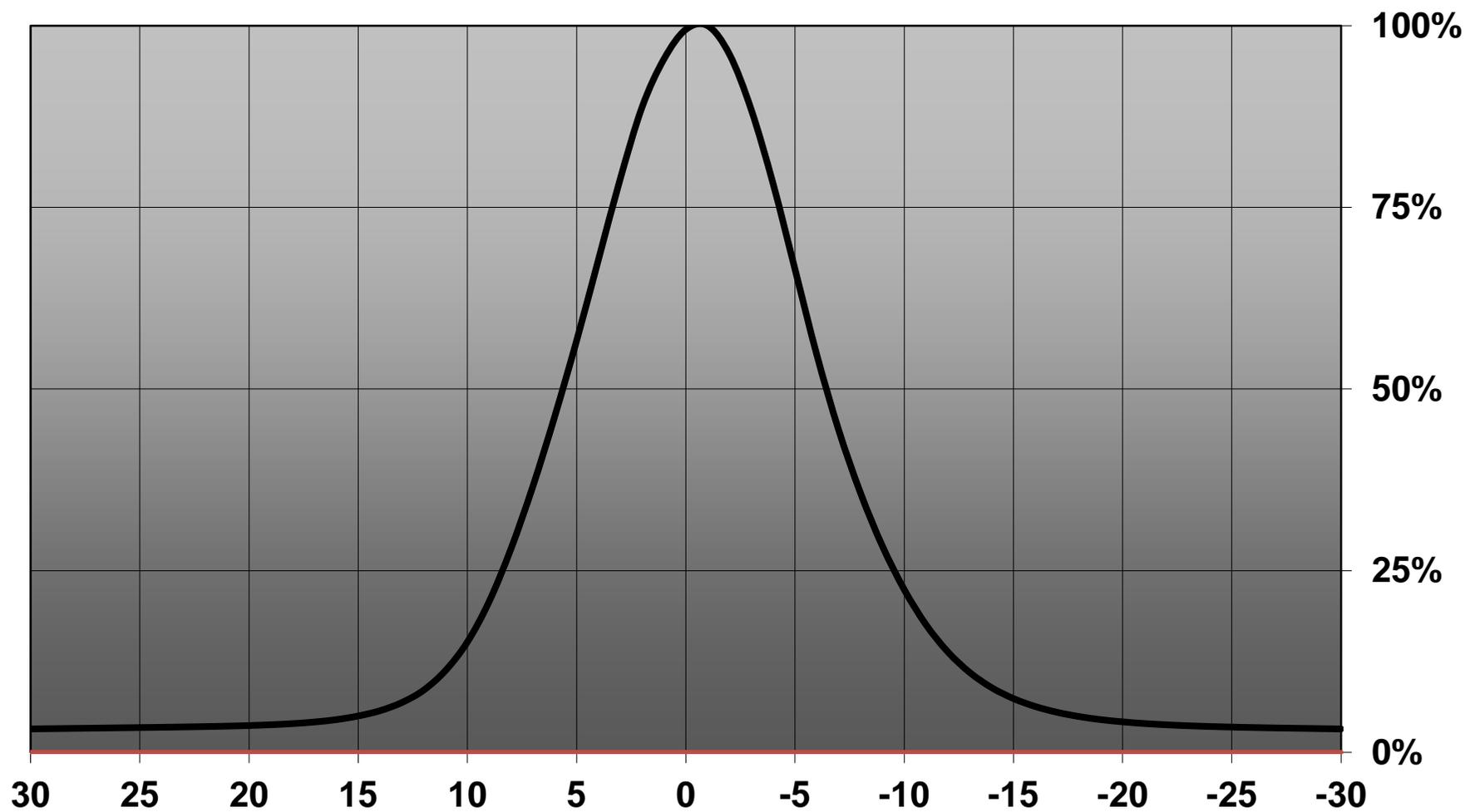
|                        |                     |
|------------------------|---------------------|
| <b>Product Number</b>  | C12476_MIRELLA-50-S |
| <b>Family</b>          | Mirella             |
| <b>Type</b>            | Reflector           |
| <b>Color</b>           | metal               |
| <b>Diameter</b>        | 49,9 mm             |
| <b>Height</b>          | 24 mm               |
| <b>Style</b>           | round               |
| <b>Optic Material</b>  | PC                  |
| <b>Holder Material</b> |                     |
| <b>Fastening</b>       | glue                |
| <b>Status</b>          | production ready    |
| <b>ROHS Compliant</b>  | Yes                 |
| <b>Date Updated</b>    | 8/03/2016           |



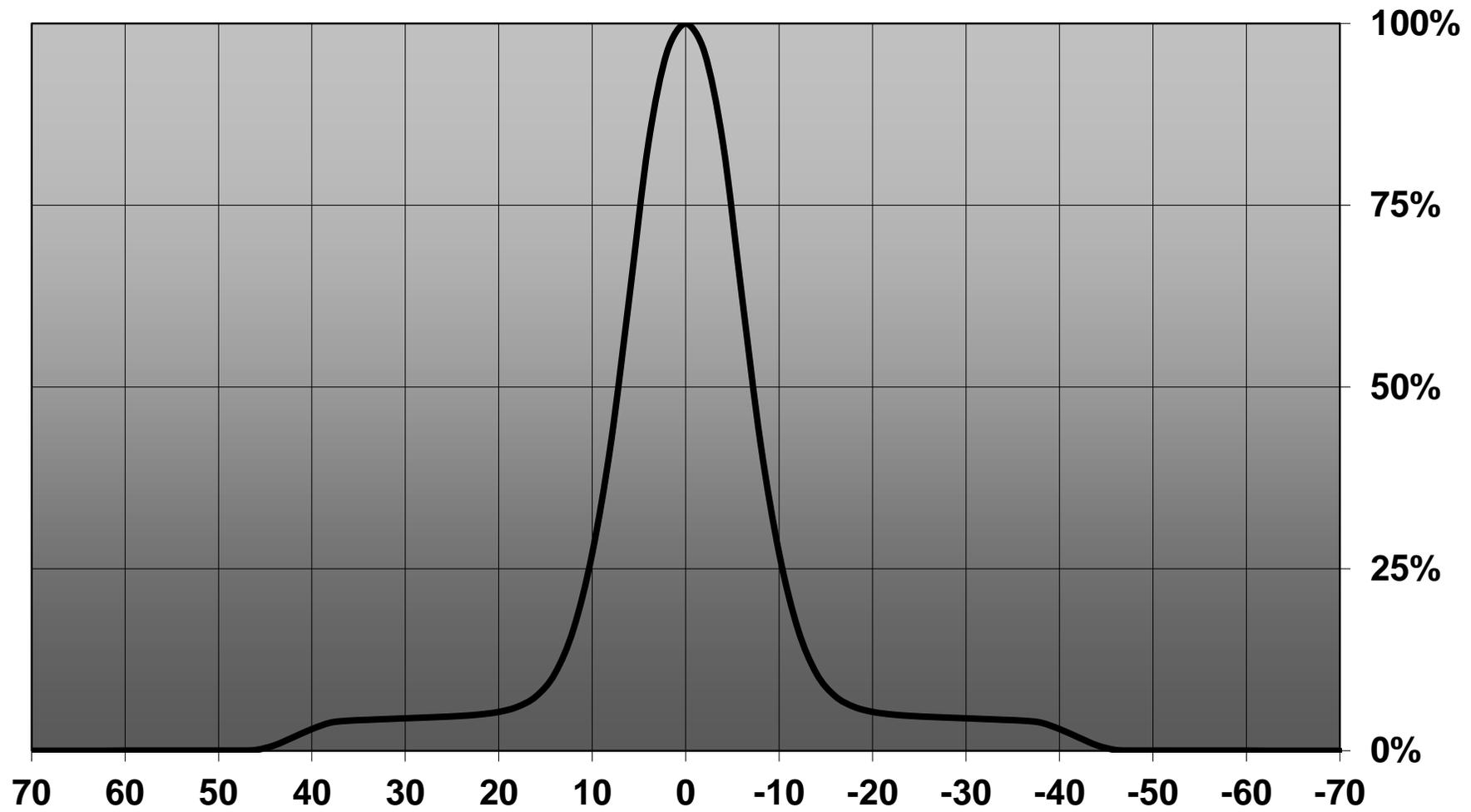
## OPTICAL PROPERTIES

| LED                     | Viewing | Light | Effi-     |              | Connector |
|-------------------------|---------|-------|-----------|--------------|-----------|
|                         | Angle   | Beam  | ciency    | cd/lm        |           |
| Duris P10               | sim: 11 | Spot  | sim: 91 % | sim: 12.200- |           |
| Soleriq S9              | sim: 19 | Spot  | sim: 91 % | sim: 4.400 - |           |
| CXA/B 13xx              | 12 deg  | Spot  | 87 %      | 9.500        | -         |
| BXRA LS                 | 13 deg  | Spot  | 89 %      | 8.600        | -         |
| CLL01x                  | 14 deg  | Spot  | -         | sim: 0.000   | -         |
| COB 4W                  | 14 deg  | Spot  | 91 %      | 6.700        | -         |
| XHP50                   | 14 deg  | Spot  | 92 %      | 7.200        | -         |
| CLU700                  | 15 deg  | Spot  | 90 %      | 6.200        | -         |
| Duris S10               | 15 deg  | Spot  | 89 %      | 6.500        | -         |
| SLE G5 LES6             | 15 deg  | Spot  | 89 %      | 6.780        | -         |
| CXA/B 15xx              | 16 deg  | Spot  | 93 %      | 5.100        | -         |
| MHD-E/G                 | 16 deg  | Spot  | 94 %      | 5.000        | -         |
| Mini Zenigata (GW5BM)   | 17 deg  | Spot  | 92 %      | 4.800        | -         |
| LUXEON S1000            | 17 deg  | Spot  | -         | sim: 0.000   | -         |
| MT-G2                   | 17 deg  | Spot  | 92 %      | 5.500        | -         |
| Mini Zenigata (GW6BM)   | 17 deg  | Spot  | 91 %      | 4.800        | -         |
| NSCxL036A               | 17 deg  | Spot  | 88 %      | 5.600        | -         |
| STARK SLE PURE G3 LES10 | 17 deg  | Spot  | 88 %      | 5.000        | -         |
| XHP70                   | 17 deg  | Spot  | 90 %      | 5.500        | -         |
| ZC4/6                   | 18 deg  | Spot  | 88 %      | 4.800        | -         |
| CLL02x/CLU02x (LES10)   | 20 deg  | Spot  | 93 %      | sim: 0.000   | -         |
| NSBxL066A/NFCxL036B     | 20 deg  | Spot  | 90 %      | 4.000        | -         |
| LUXEON CoB 1202/1203    | 20 deg  | Spot  | 89 %      | 3.900        | -         |
| CLU710                  | 20 deg  | Spot  | 90 %      | 3.700        | -         |
| CXM-9                   | 21 deg  | Spot  | 90 %      | 3.600        | -         |

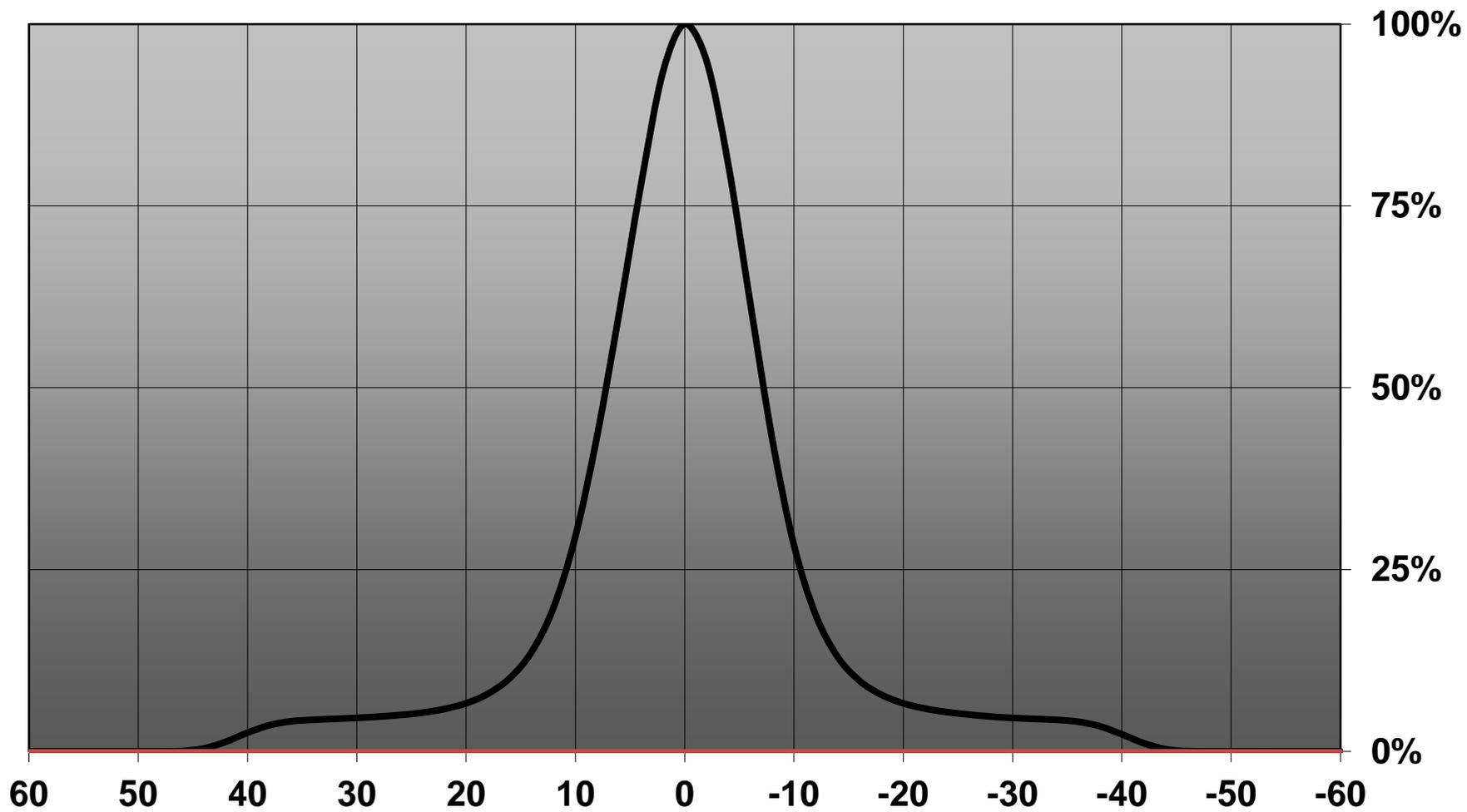
Relative intensity of C12476\_MIRELLA-50-S\_(CXA1304)



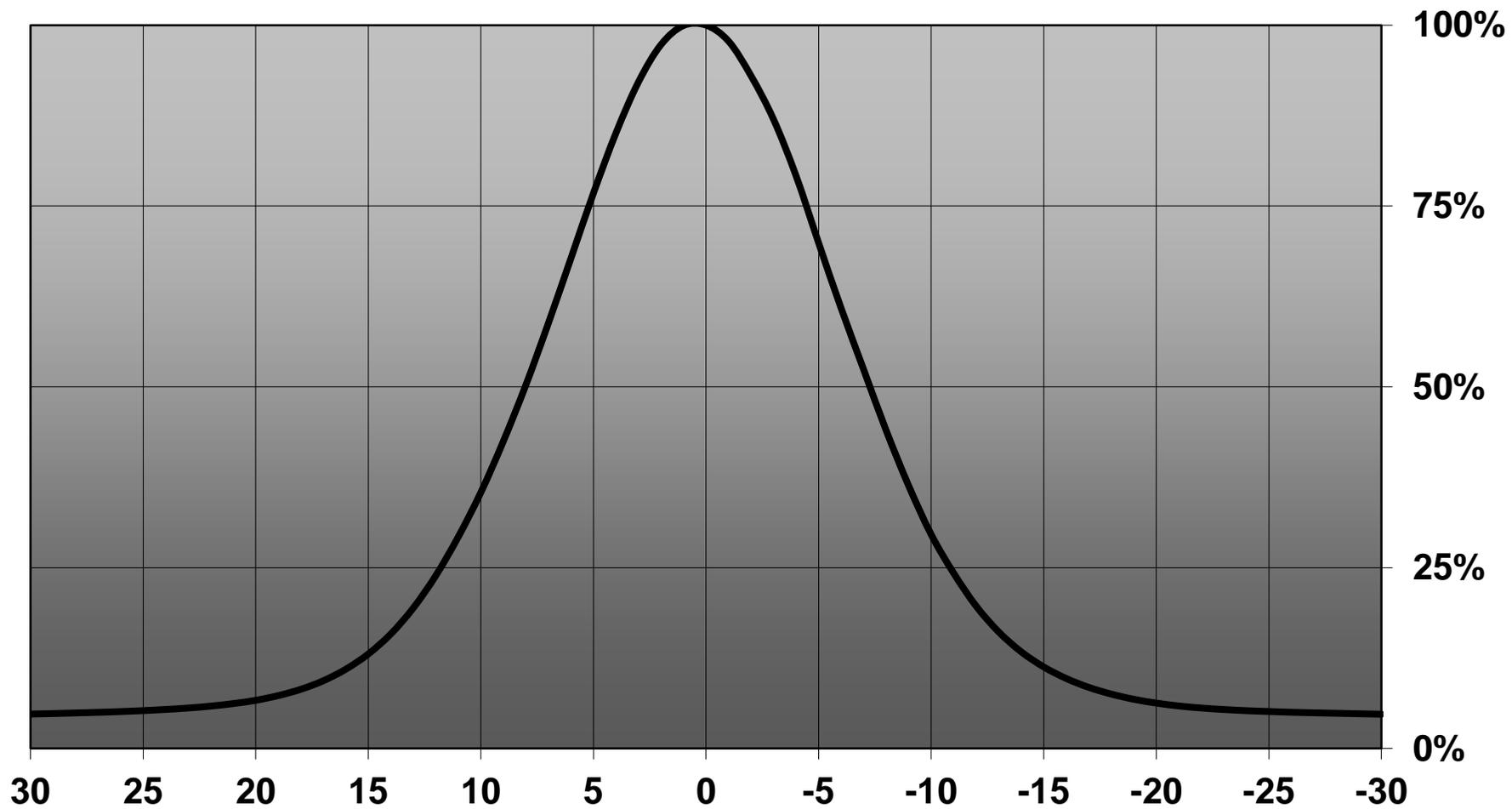
Relative intensity of C12476\_Mirella\_50-S\_(CLL010)



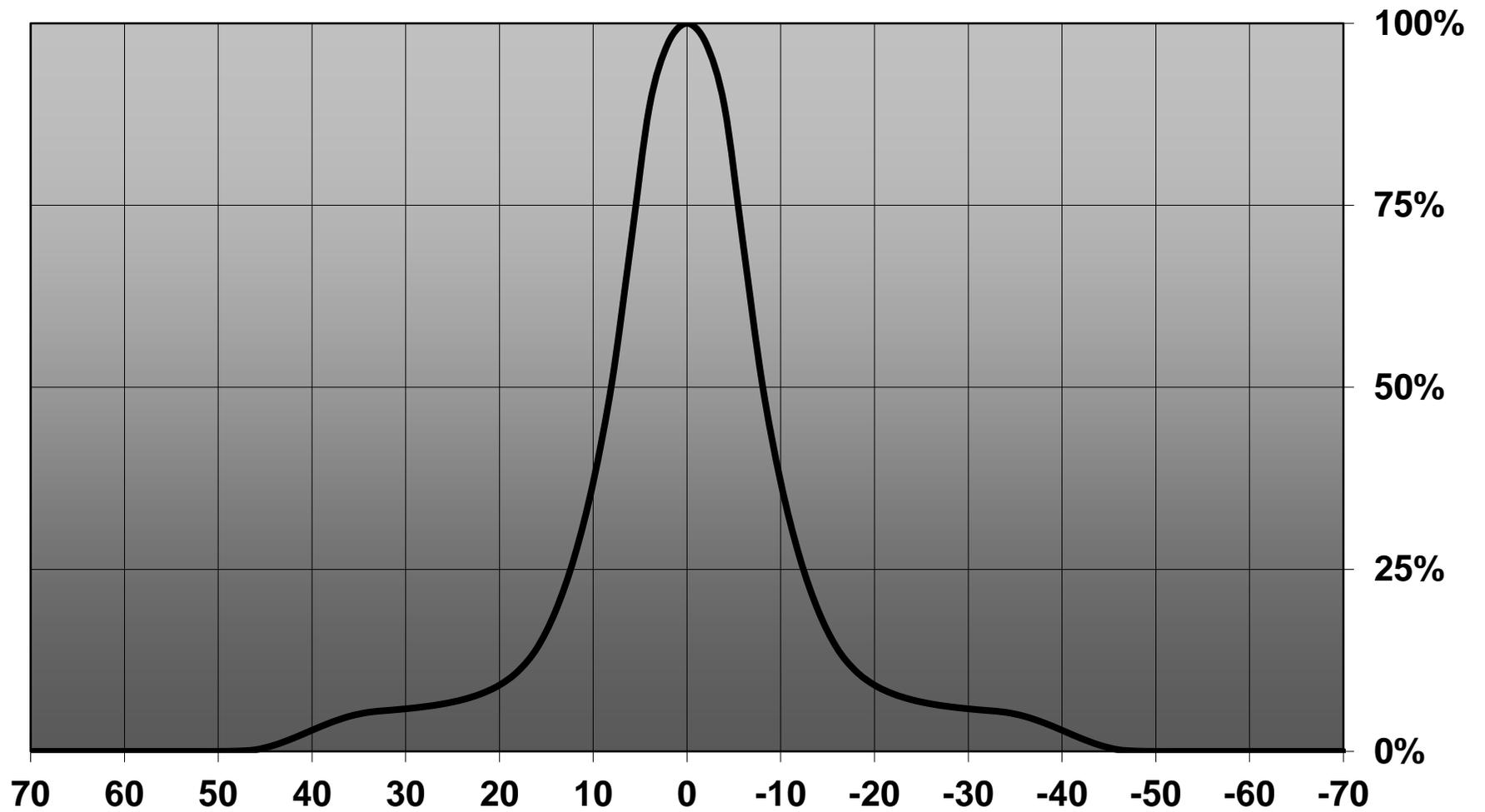
# Relative intensity of Mirella-S-4WLG



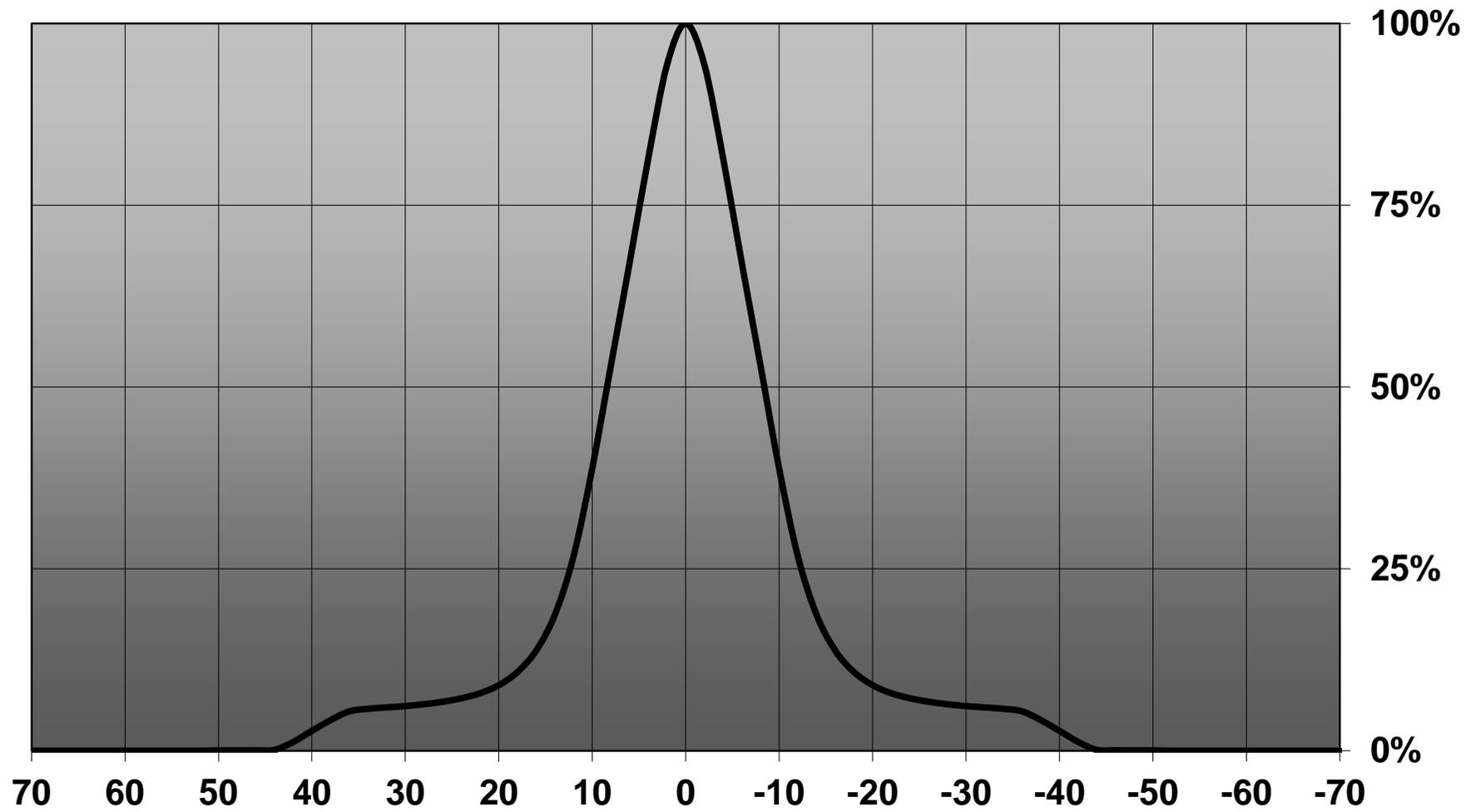
Relative intensity of C12476\_MIRELLA-50-S\_(Duris\_S10)



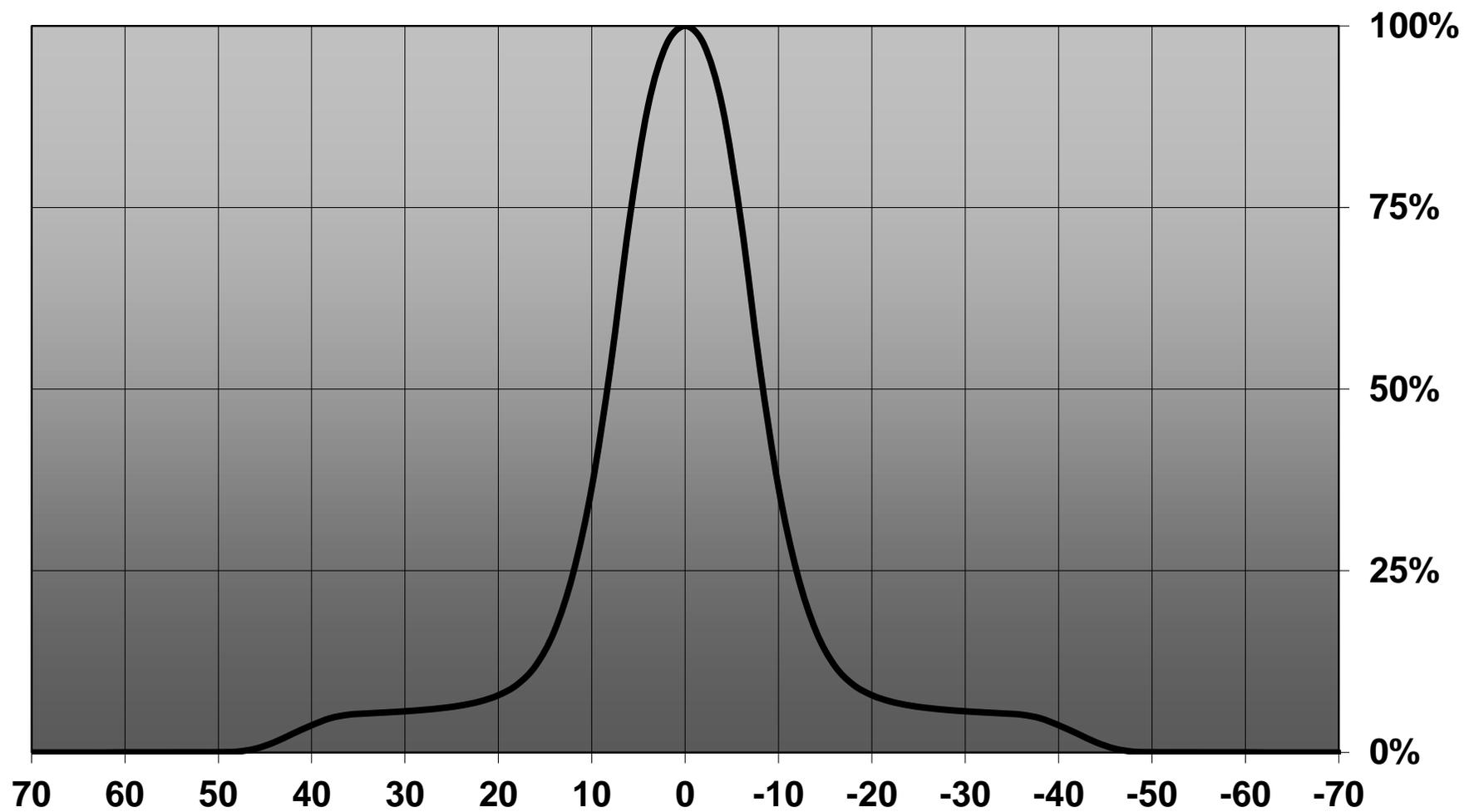
### Relative intensity of C12476\_MIRELLA-50-S



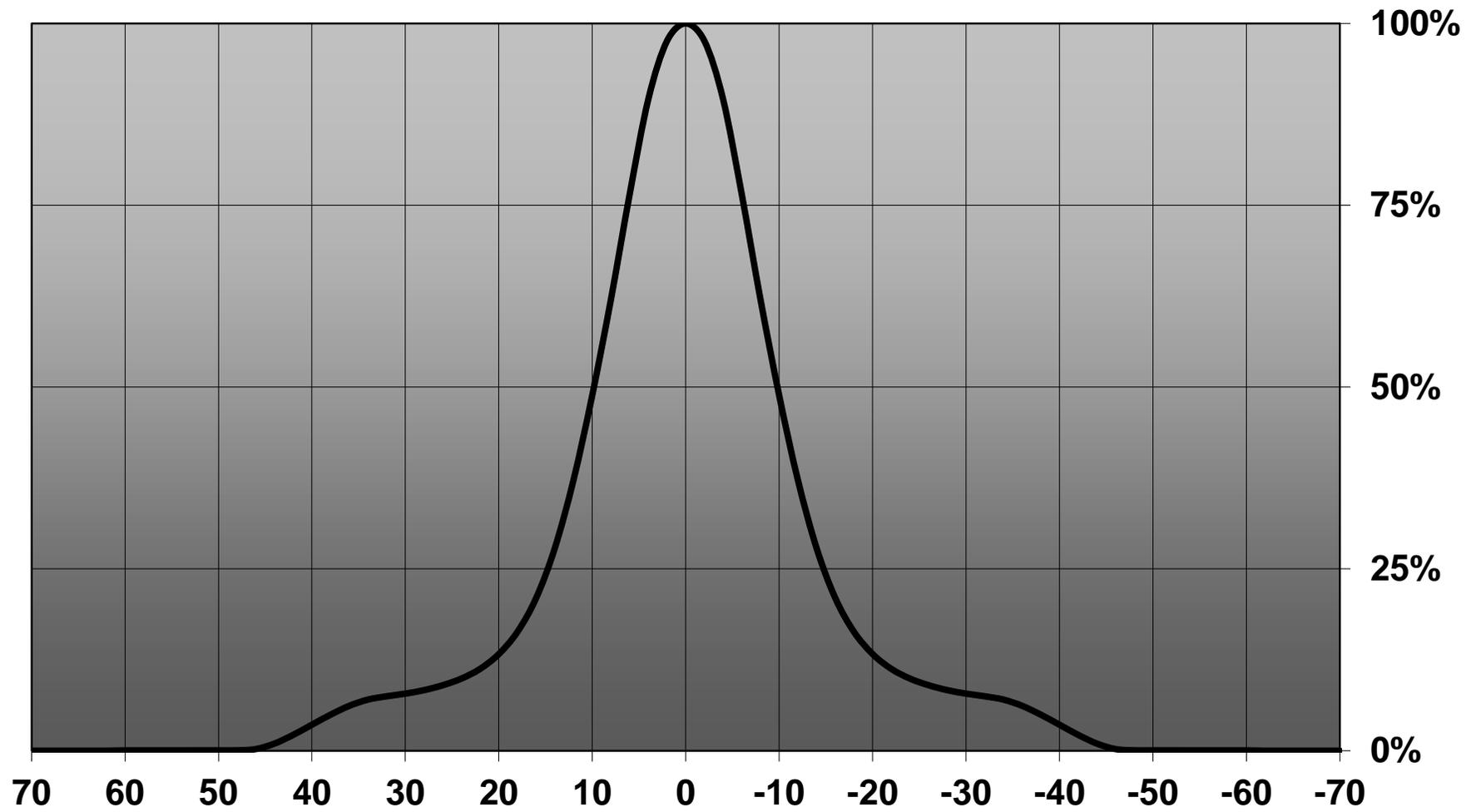
Relative intensity of C12476\_Mirella\_50-S\_(Luxeon\_S)



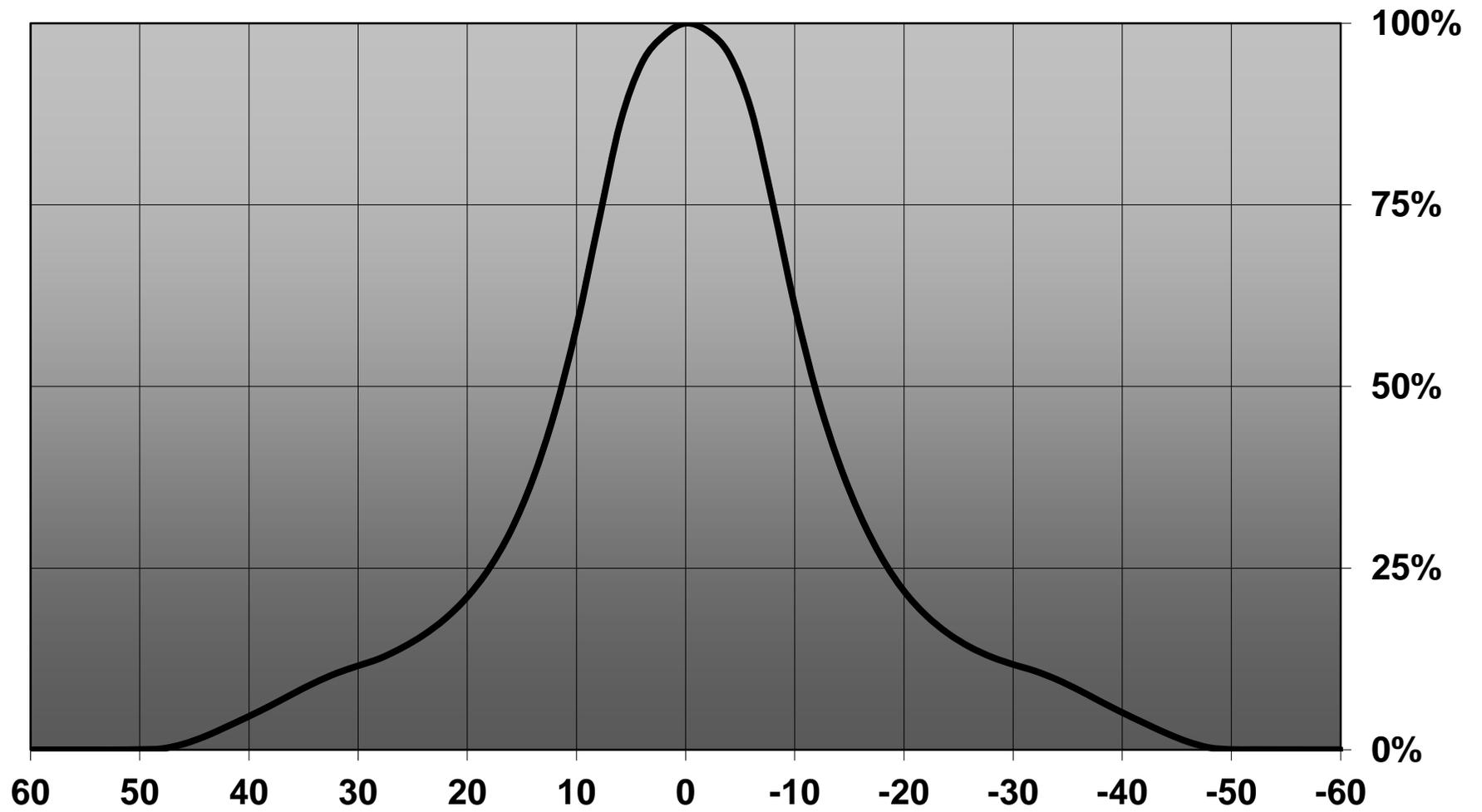
Relative intensity of C12476\_Mirella\_50-S\_(MTG\_Gen\_II)



Relative intensity of C12476\_Mirella\_50-S\_(CLL020)



Relative intensity of C12476\_MIRELLA-50-S\_(CXA1816)



D

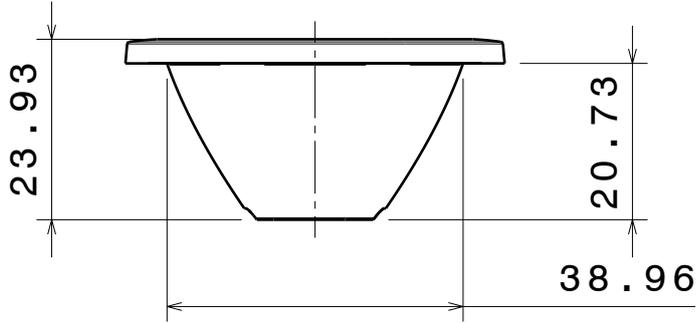
C

B

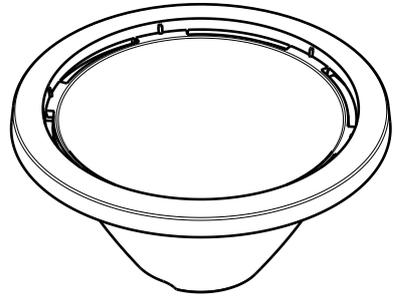
A

4

4



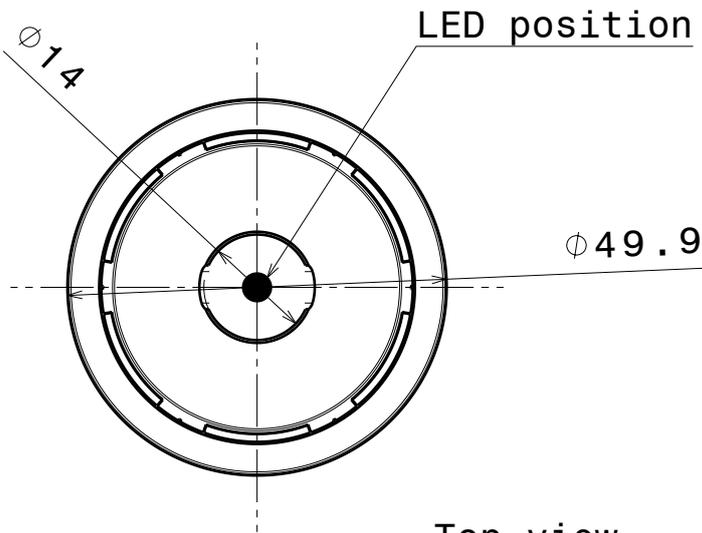
Front view



Isometric view

3

3



Top view

2

2

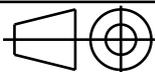
| INDEX | PART NO | DESCRIPTION  | MATERIAL | COLOUR |
|-------|---------|--------------|----------|--------|
| 1     | C12476  | MIRELLA-50-S | PC       | metal  |

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 Oy  
 Salorankatu 10  
 FIN 24240 SALO  
 Finland

THIRD ANGLE PROJECTION:



DRAWING TITLE

C12476\_MIRELLA-50-S

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 of LEDiL Oy. It may not be  
 reproduced, copied or  
 communicated without a written  
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SIZE PART NUMBER

A4

C12476

SCALE 1:1 WEIGHT 4,49 g SHEET 1/1

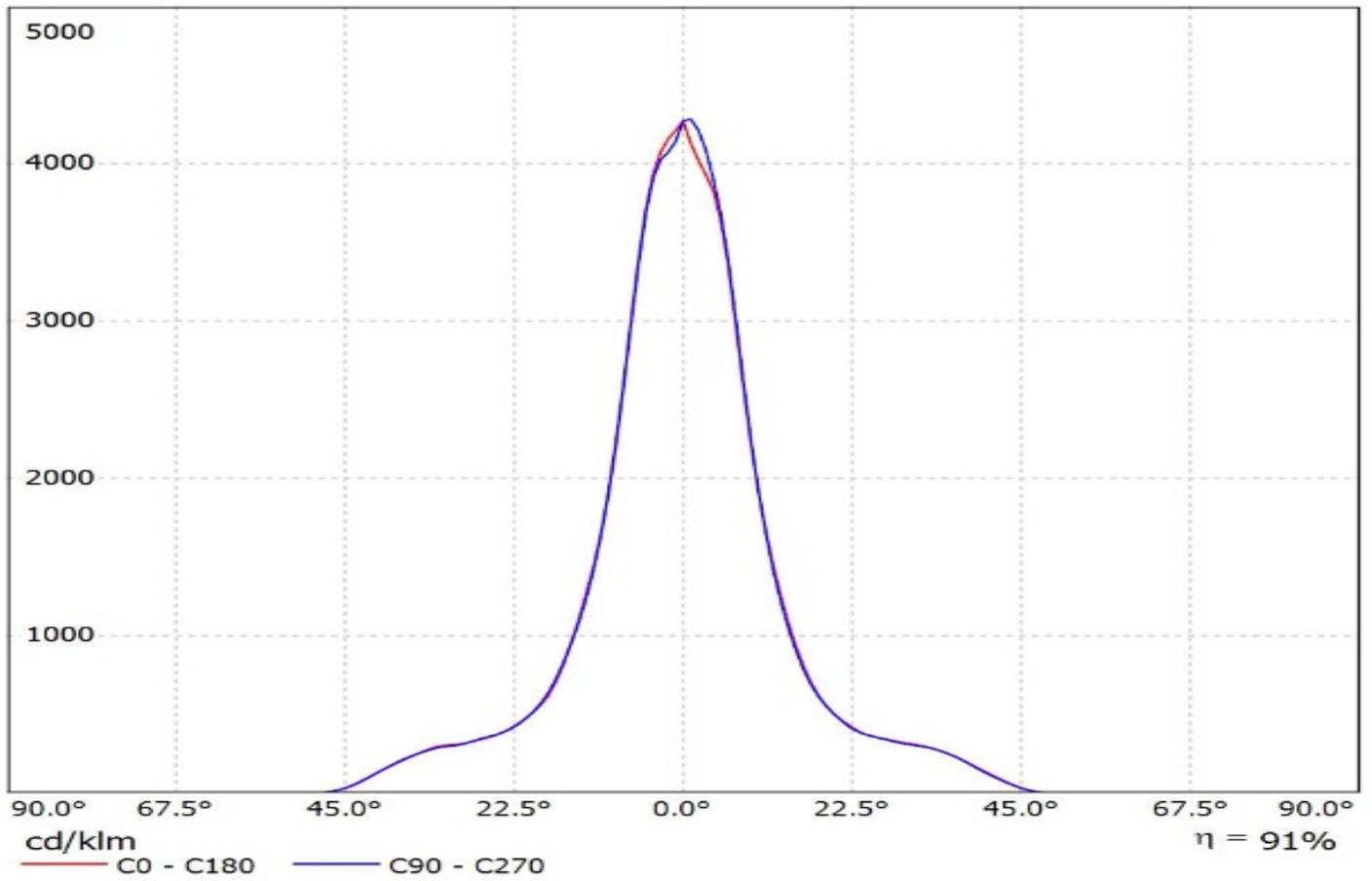
1

1

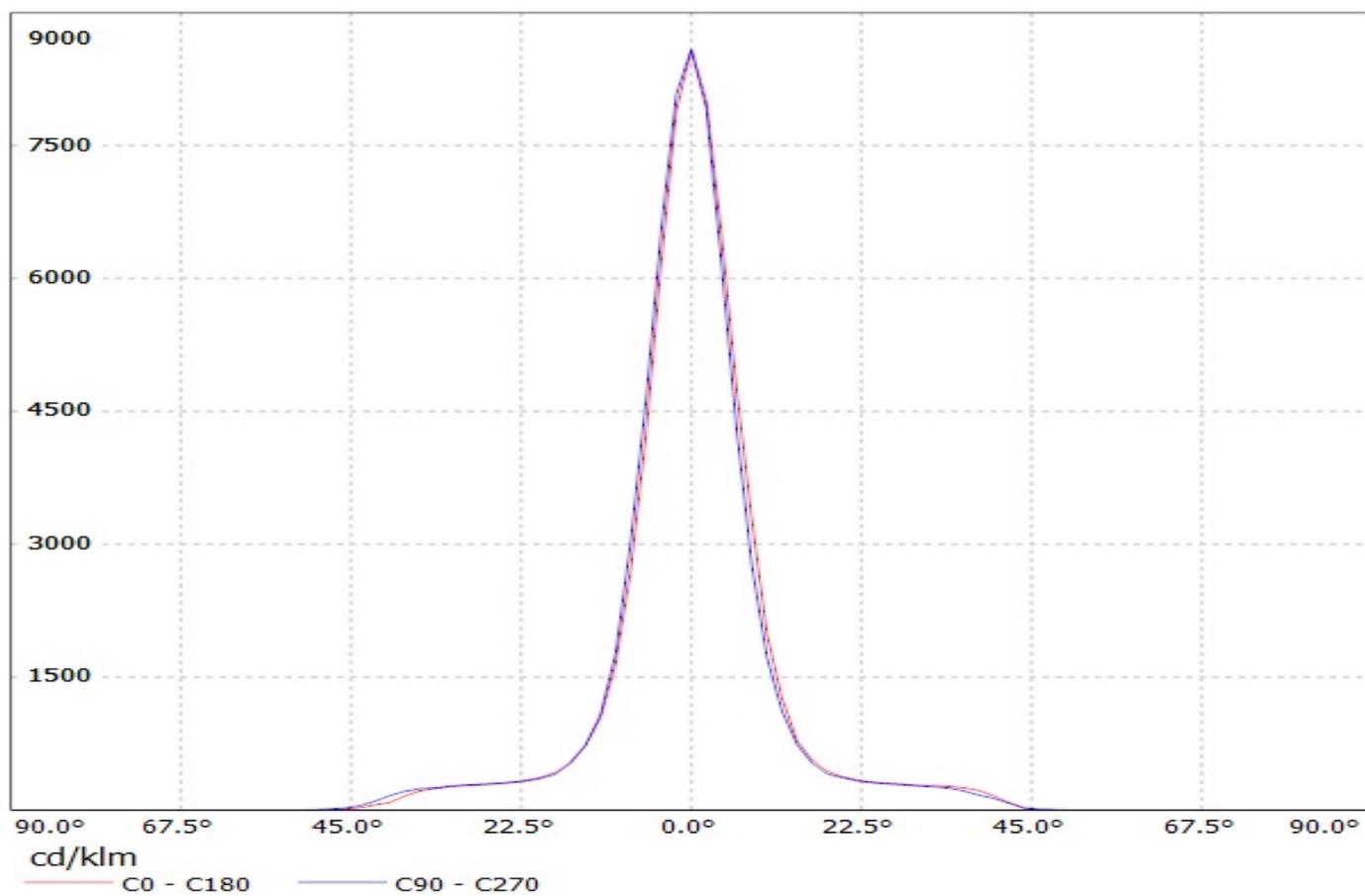
D

A

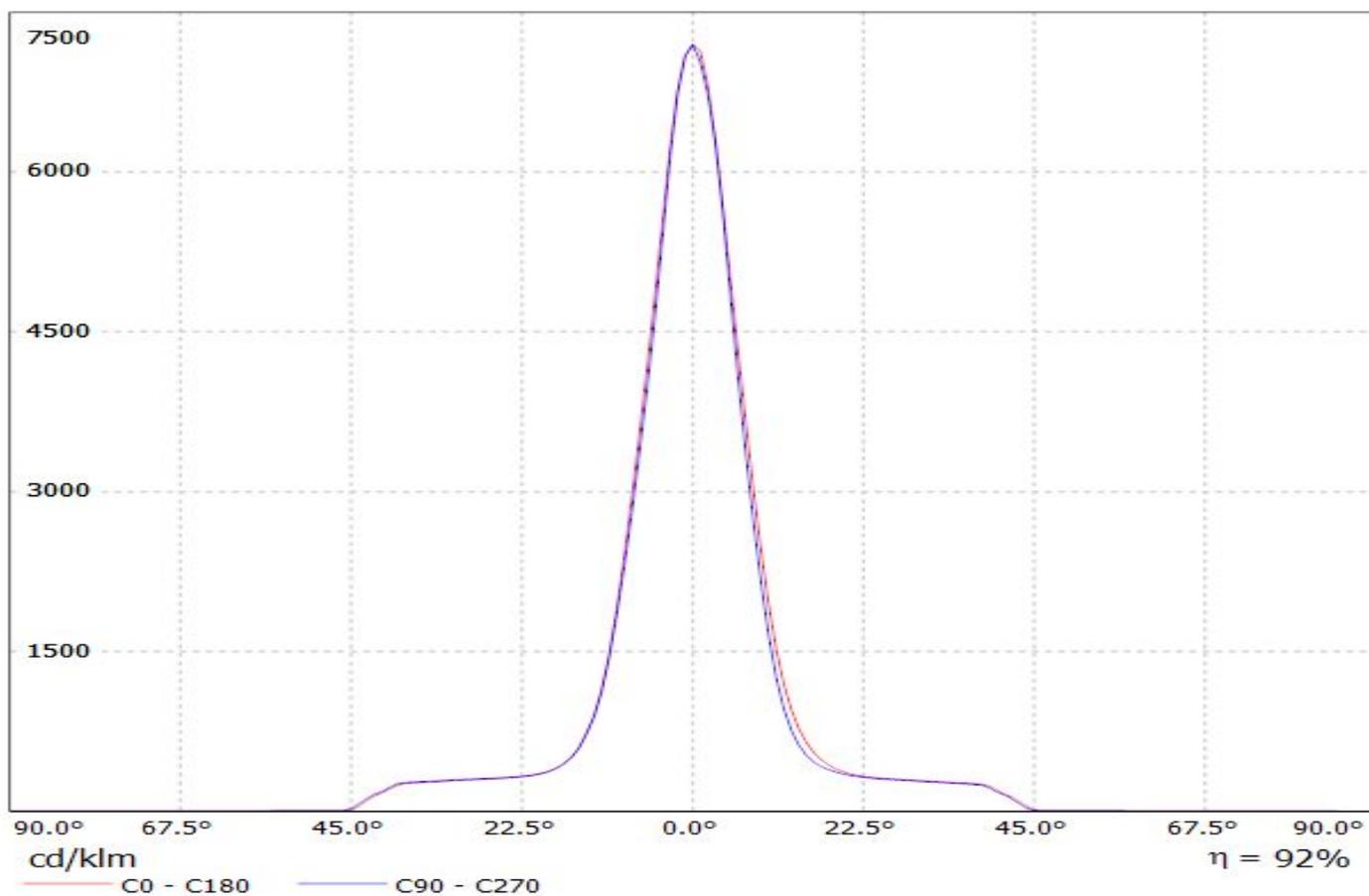
Luminaire: Ledil Oy C12476\_MIRELLA-50-S\_(Soleriq\_S9)\_SIMULATED  
Lamps: 1 x Osram Soleriq S9 (GW KAJFB3.EM)



Luminaire: Ledil Oy C12476\_MIRELLA-50-S (Bridgelux LS 170lm @ 250mA) Efficiency=89%  
Lamps: 1 x Bridgelux LS 170lm @ 250mA

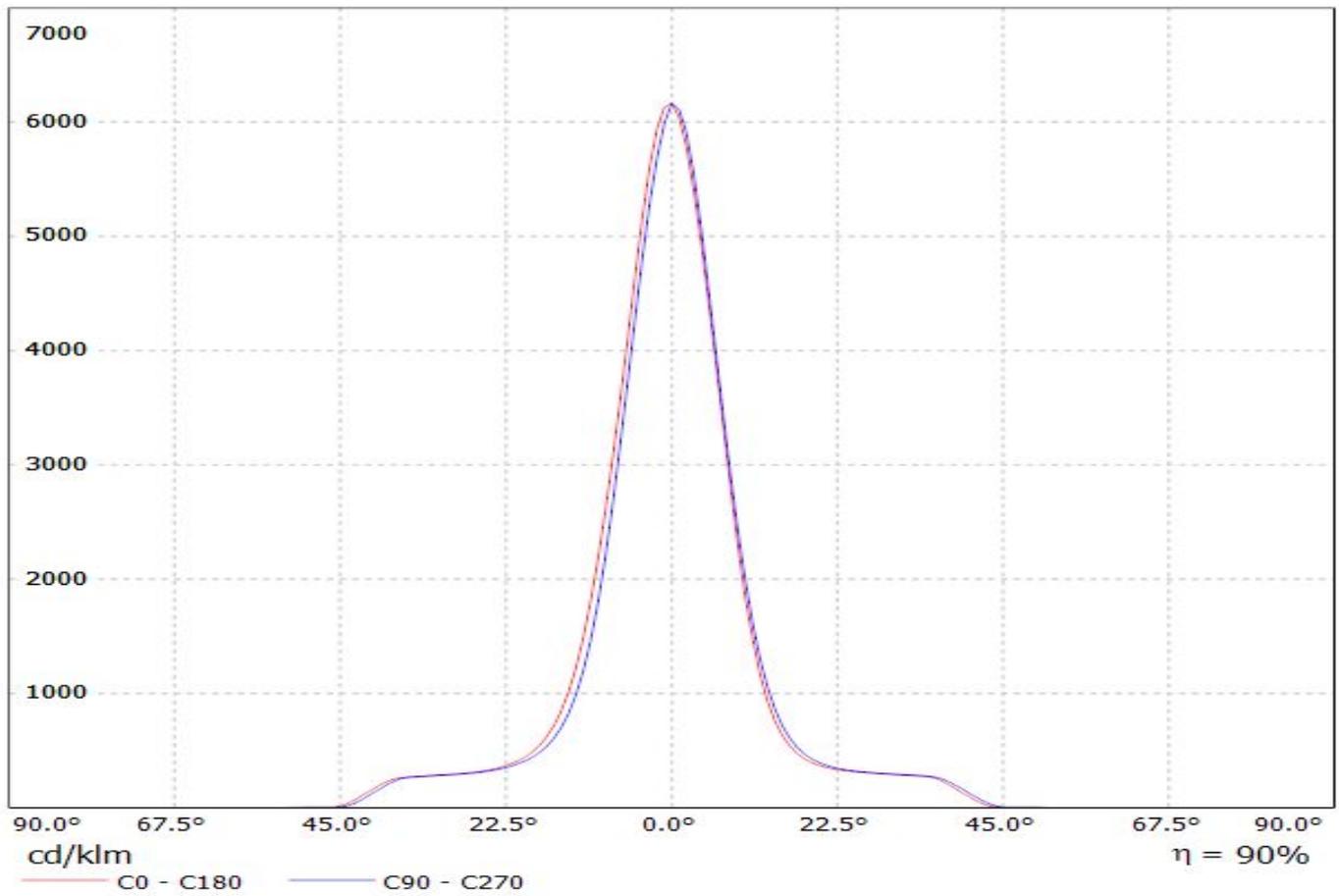


Luminaire: LEDiL Oy C12476\_MIRELLA-50-S\_(Cree\_XHP50\_WW)  
Lamps: 1 x Cree\_XHP50\_WW\_196.271lm@250mA\_P=1.39897W\_I=0.2499A

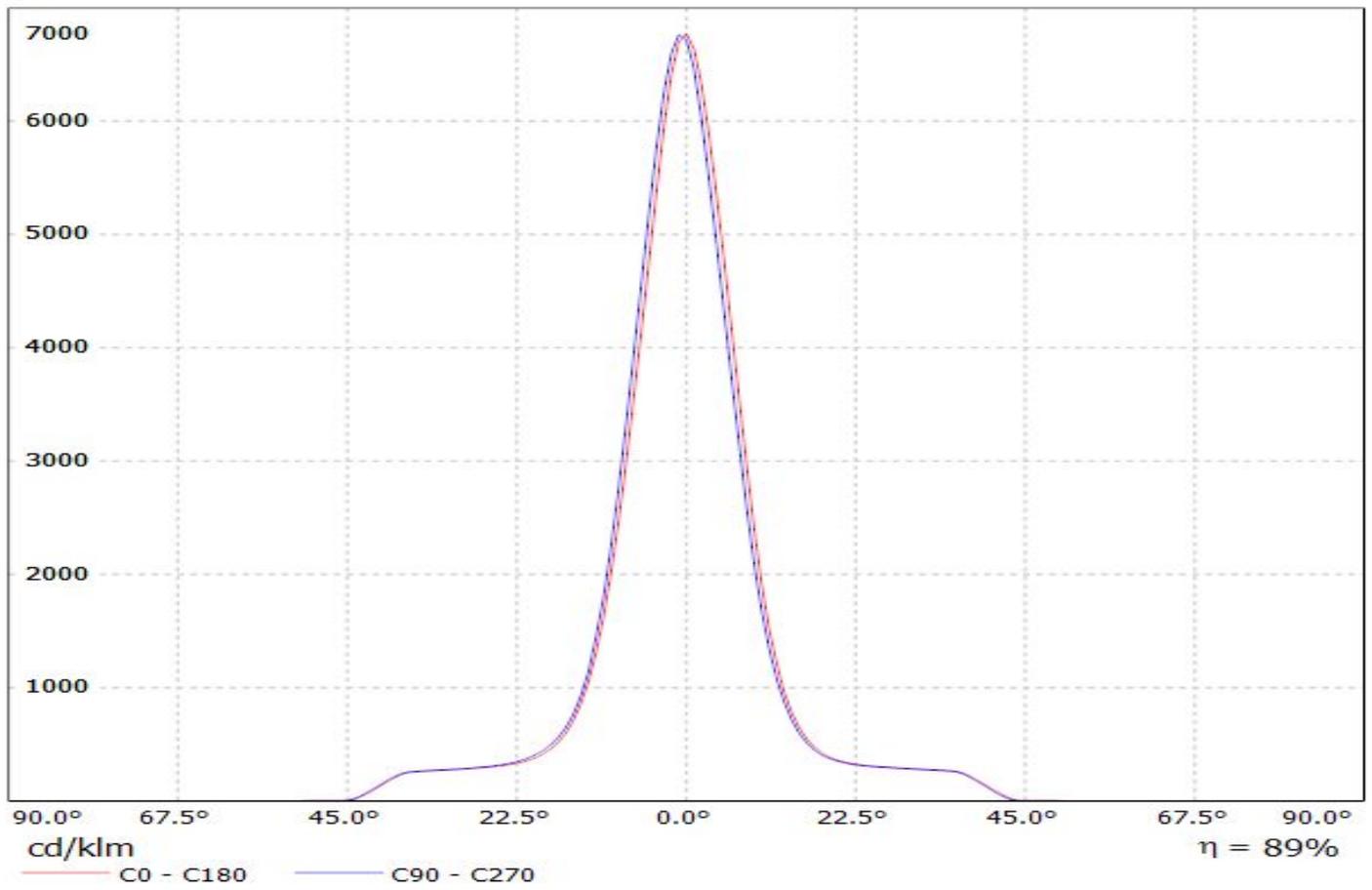


Luminaire: LEDiL Oy C12476\_MIRELLA-50-S\_(CLU700)

Lamps: 1 x CITIZEN\_CLU700\_(CLU700-100-2B8-273M2G1)\_380.605lm@250mA\_P=2.8002W\_I=0.1001A

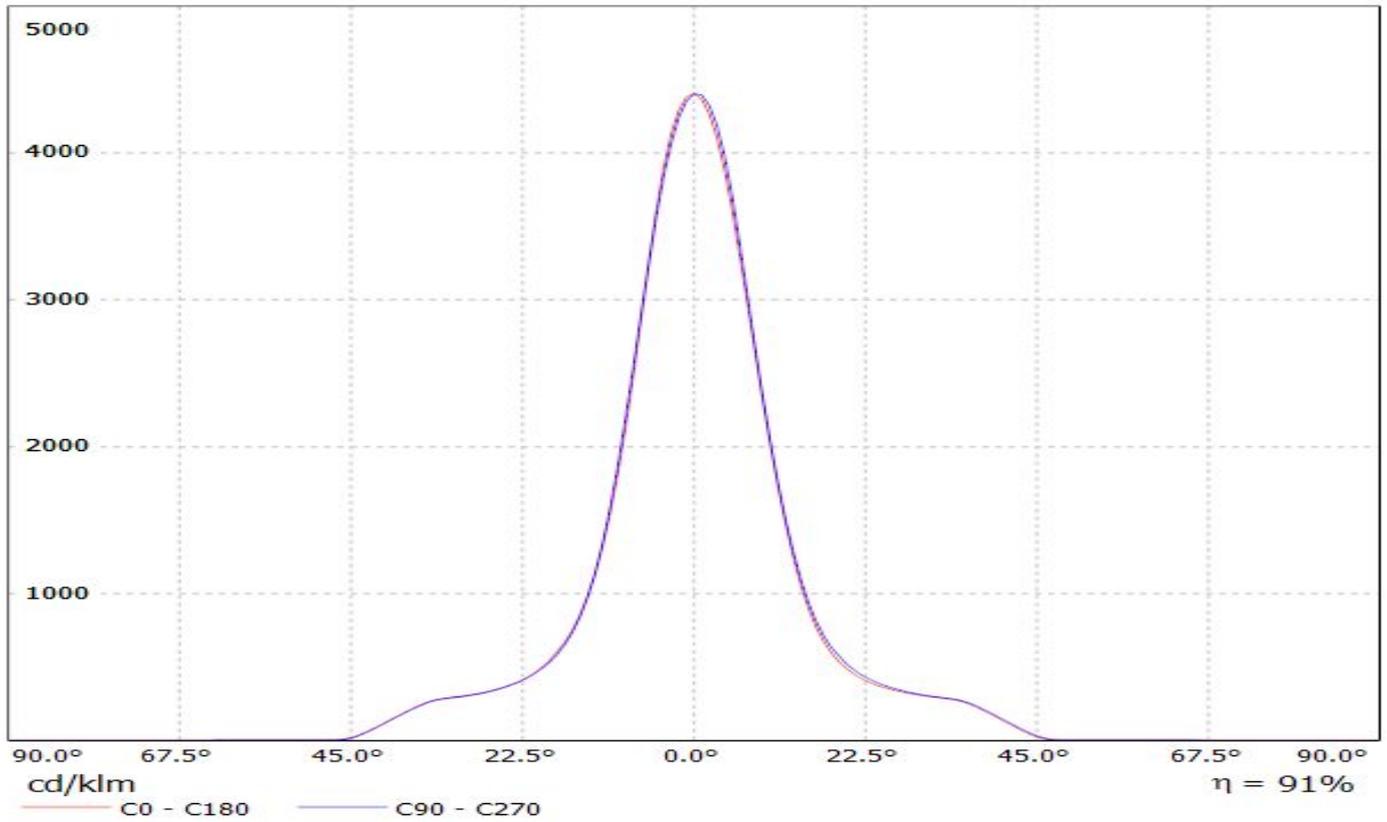


Luminaire: LEDiL Oy C12476\_MIRELLA-50-S\_(SLE-G5\_LES-6)  
Lamps: 1 x Tridonic\_SLE-G5\_LES-6\_470.59lm@100mA\_P=3.3748W\_I=0.100A

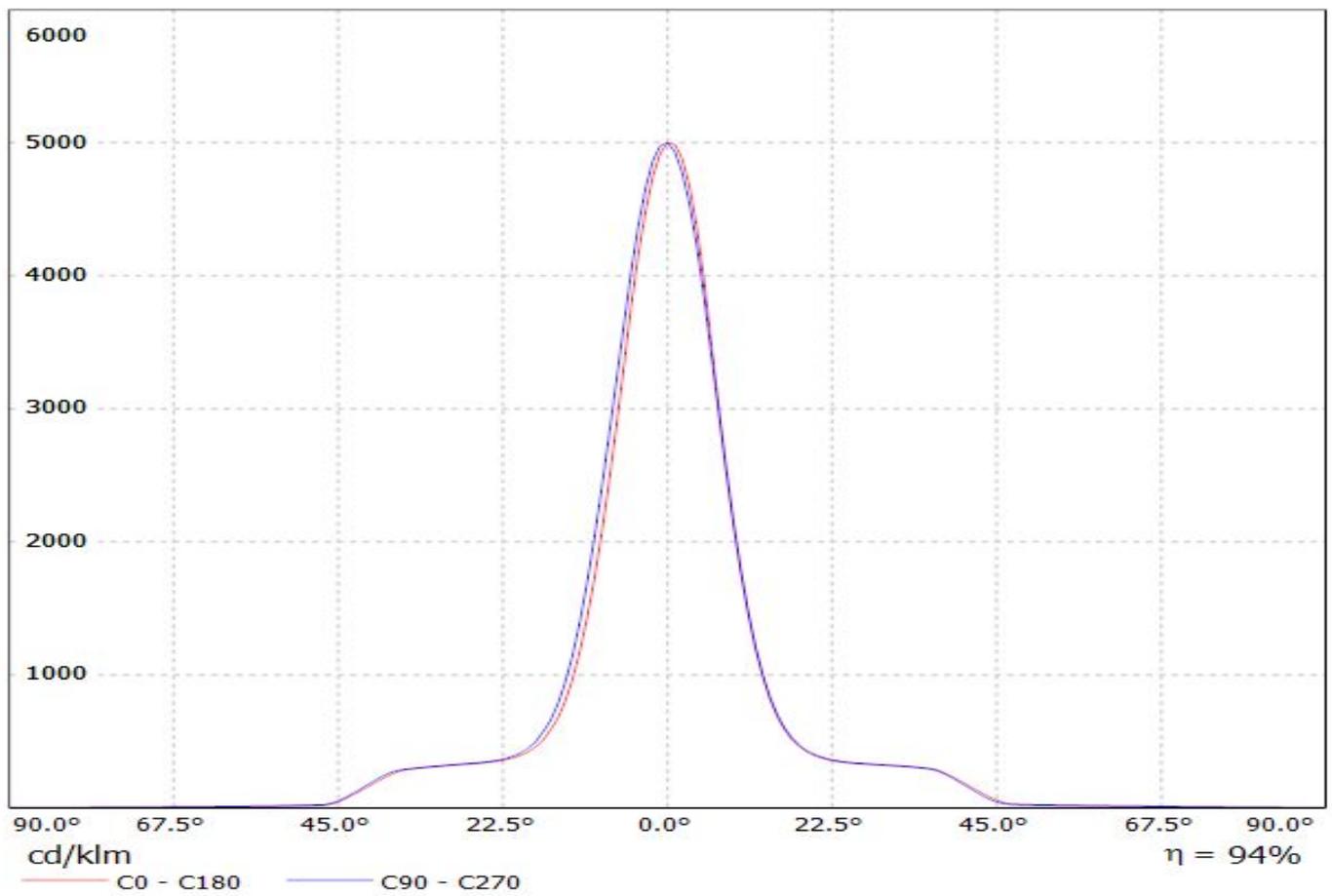


# LEDiL Oy C12476\_MIRELLA-50-S\_(CXA1507) Eff.91.6% / LDC (Linear)

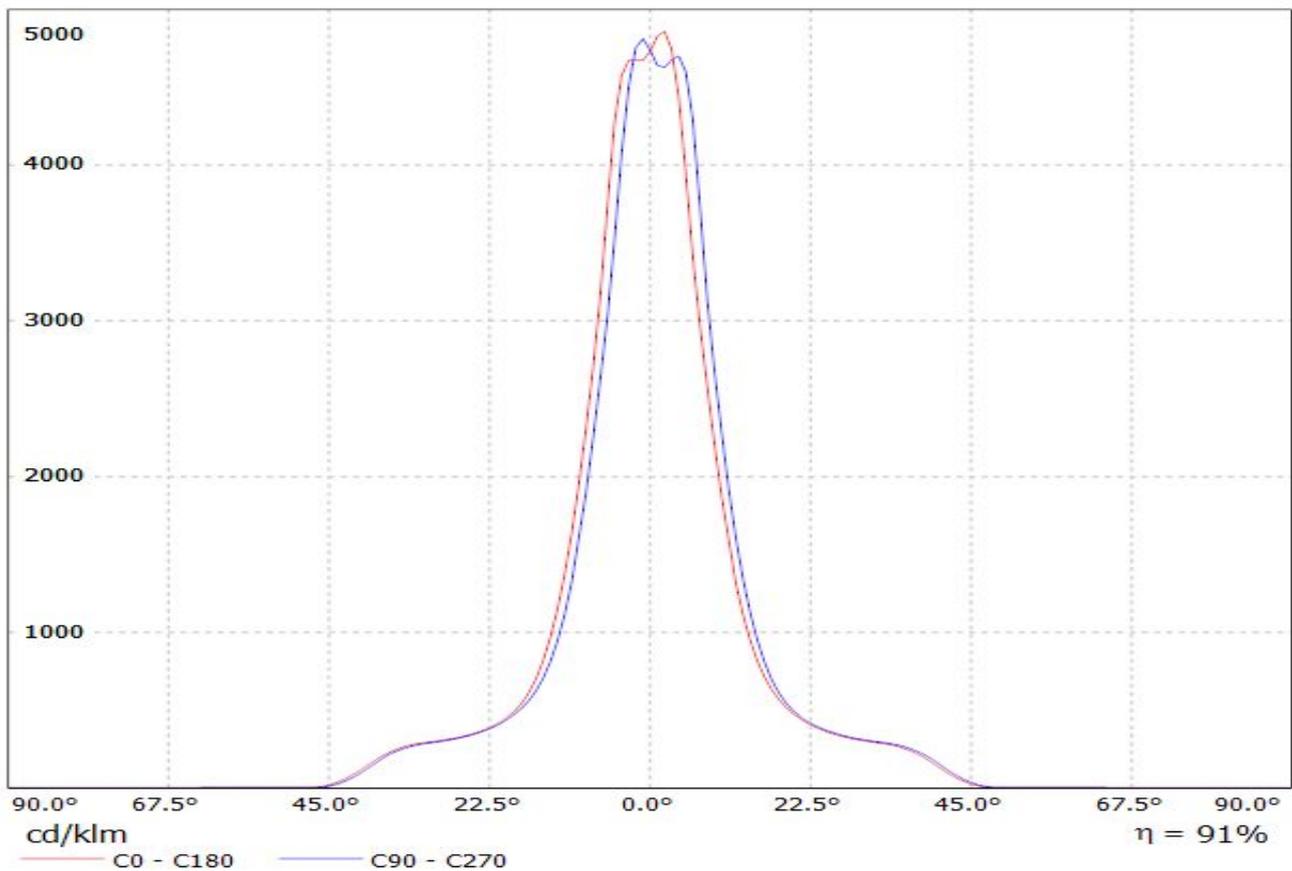
Luminaire: LEDiL Oy C12476\_MIRELLA-50-S\_(CXA1507) Eff.91.6%  
Lamps: 1 x CREE\_CXA1507 (CXA1507-30F-F2-N0A-00000) 238.378lm@50mA CCT=3000K P=1.8506W  
I=54.5mA



Luminaire: Ledil C12476\_MIRELLA-50-S\_(MHD-G)  
Lamps: 1 x Cree MHD-G\_528.649lm@100mA\_P=3.0W\_I=0.100A



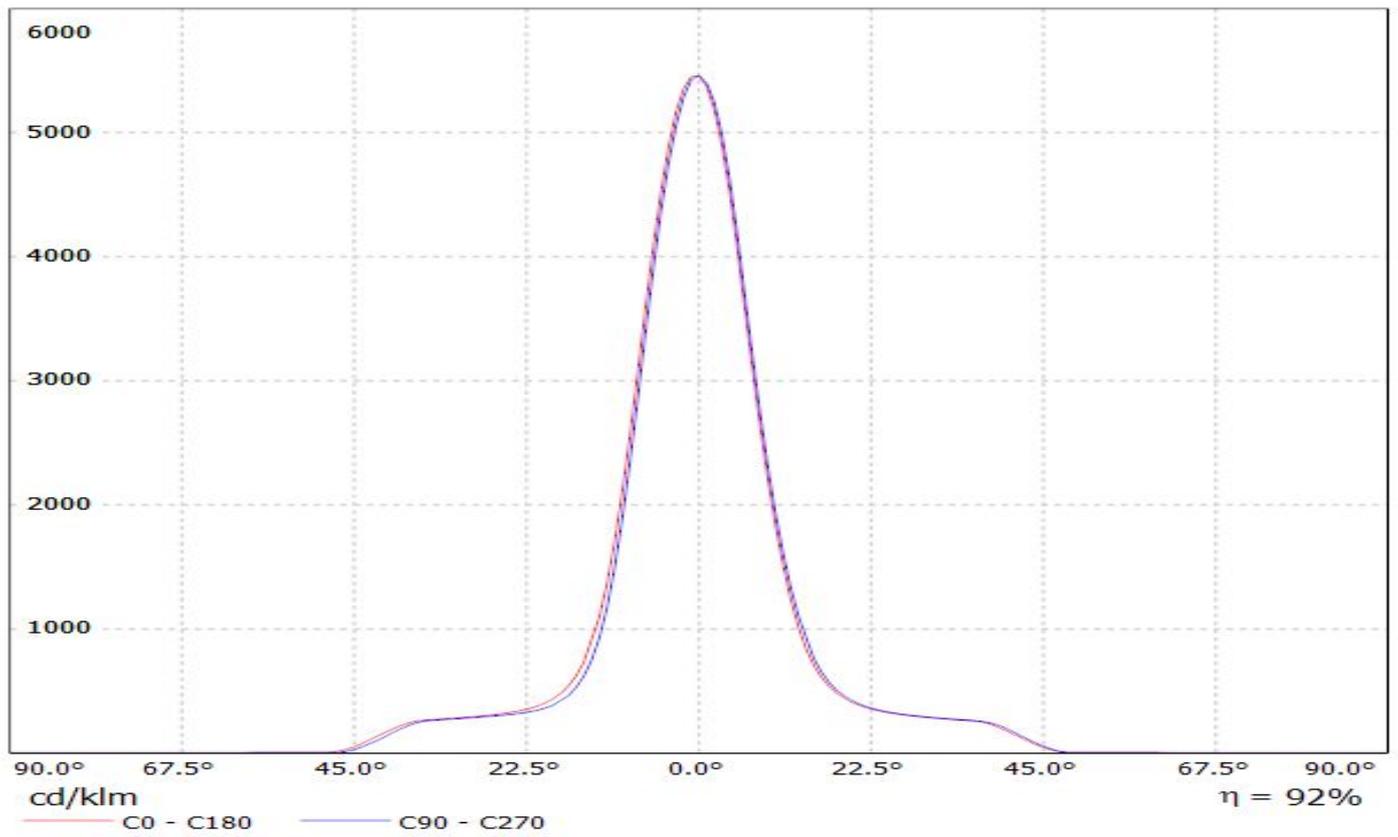
Luminaire: LEDIL OY C12476\_MIRELLA-50-S\_(MiniZenigata) Eff.91.6%  
Lamps: 1 x Mini Zenigata (387.5lm@250mA)



# LEDiL Oy C12476\_MIRELLA-50-S\_(MT-G2) Eff.92.1% / LDC (Linear)

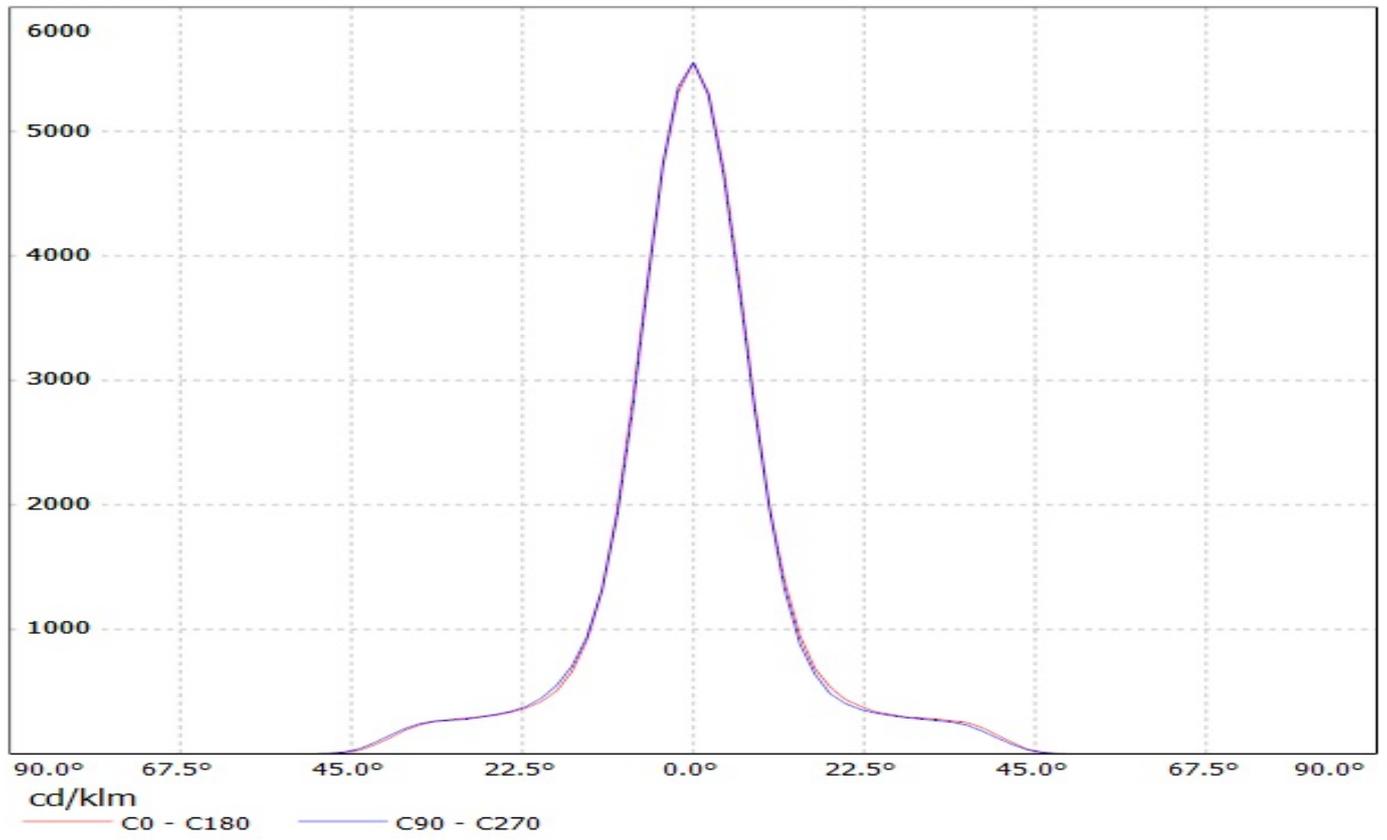
Luminaire: LEDiL Oy C12476\_MIRELLA-50-S\_(MT-G2) Eff.92.1%

Lamps: 1 x MT-G2 (168lm@250mA)

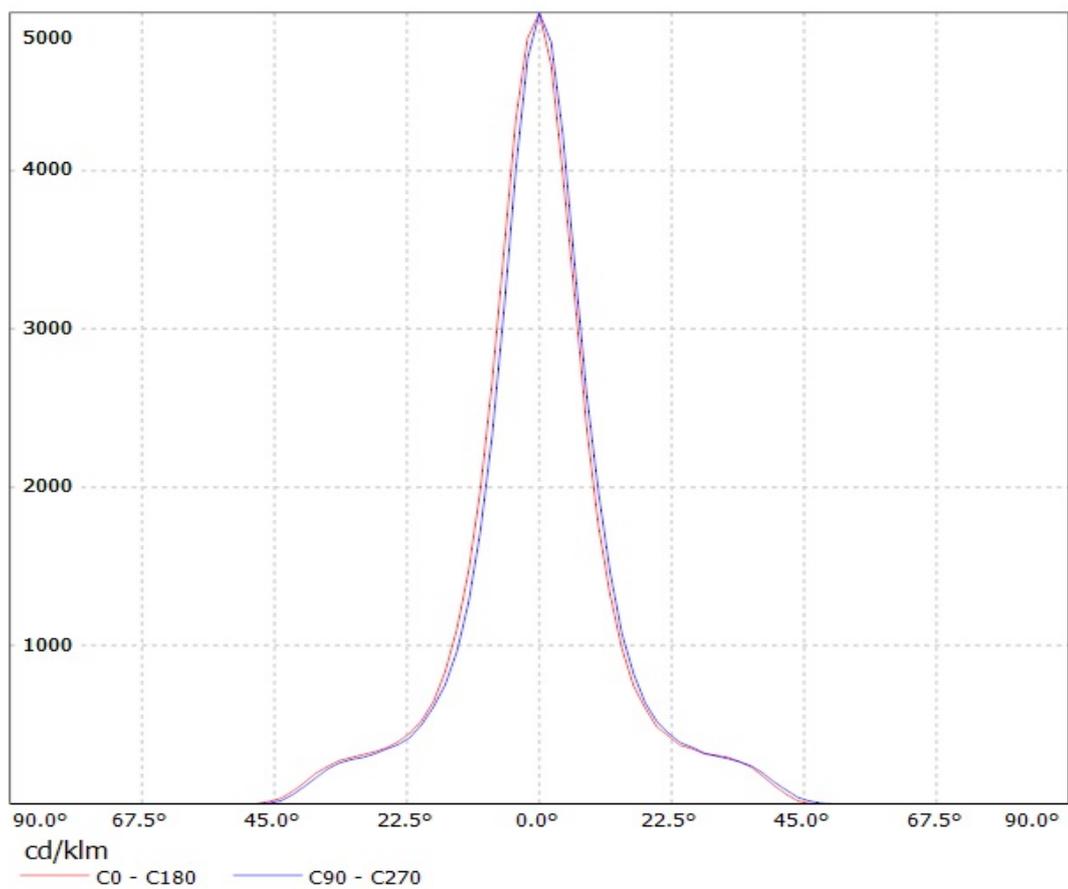




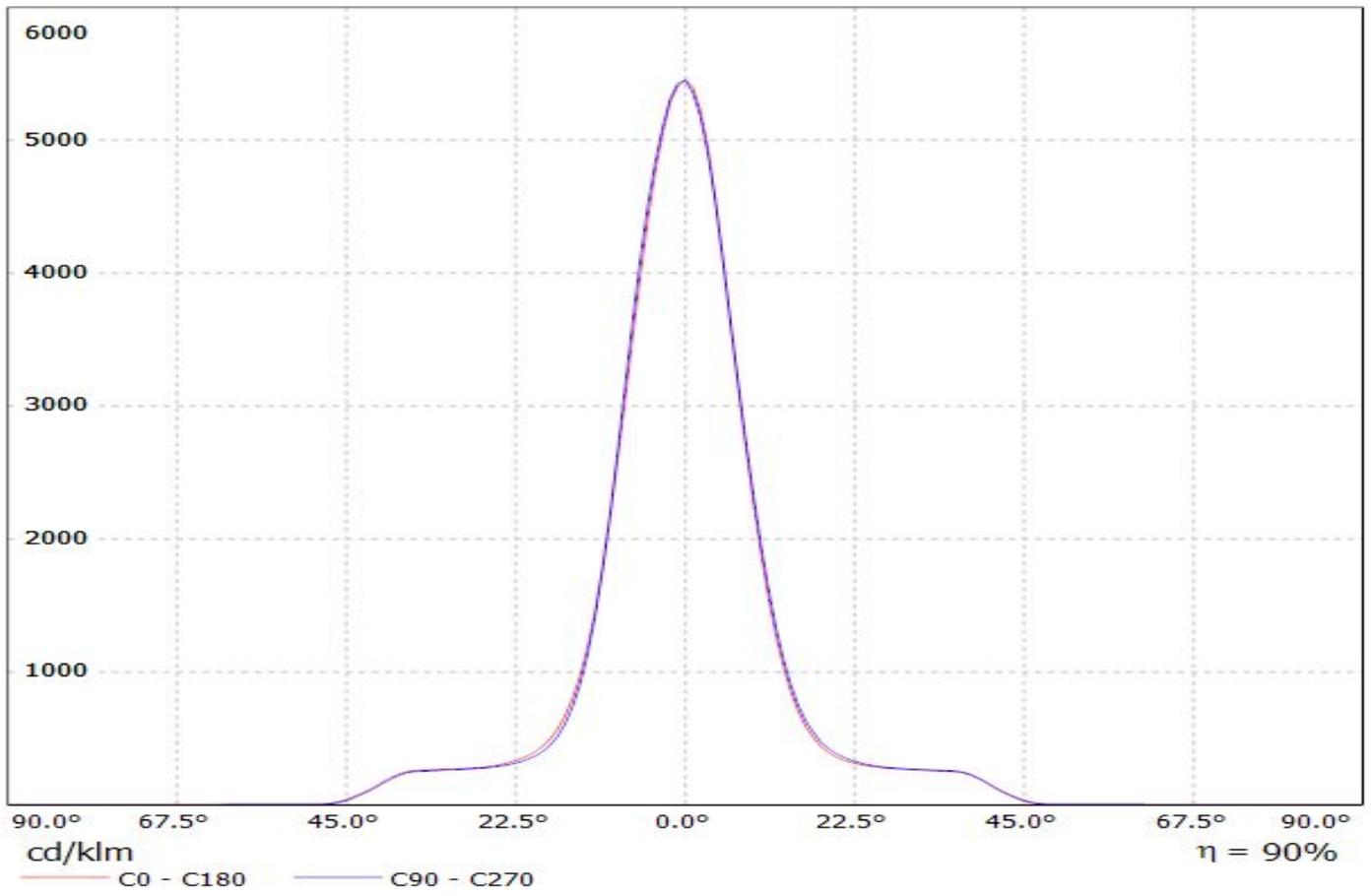
Luminaire: Ledil Oy C12476\_MIRELLA-50-S (Nichia NSCxL036A 434lm @ 100mA) Efficiency=88%  
Lamps: 1 x Nichia NSCxL036A 434lm @ 100mA (NSCLL036A) CCT=3000K P=3,4W I=100mA



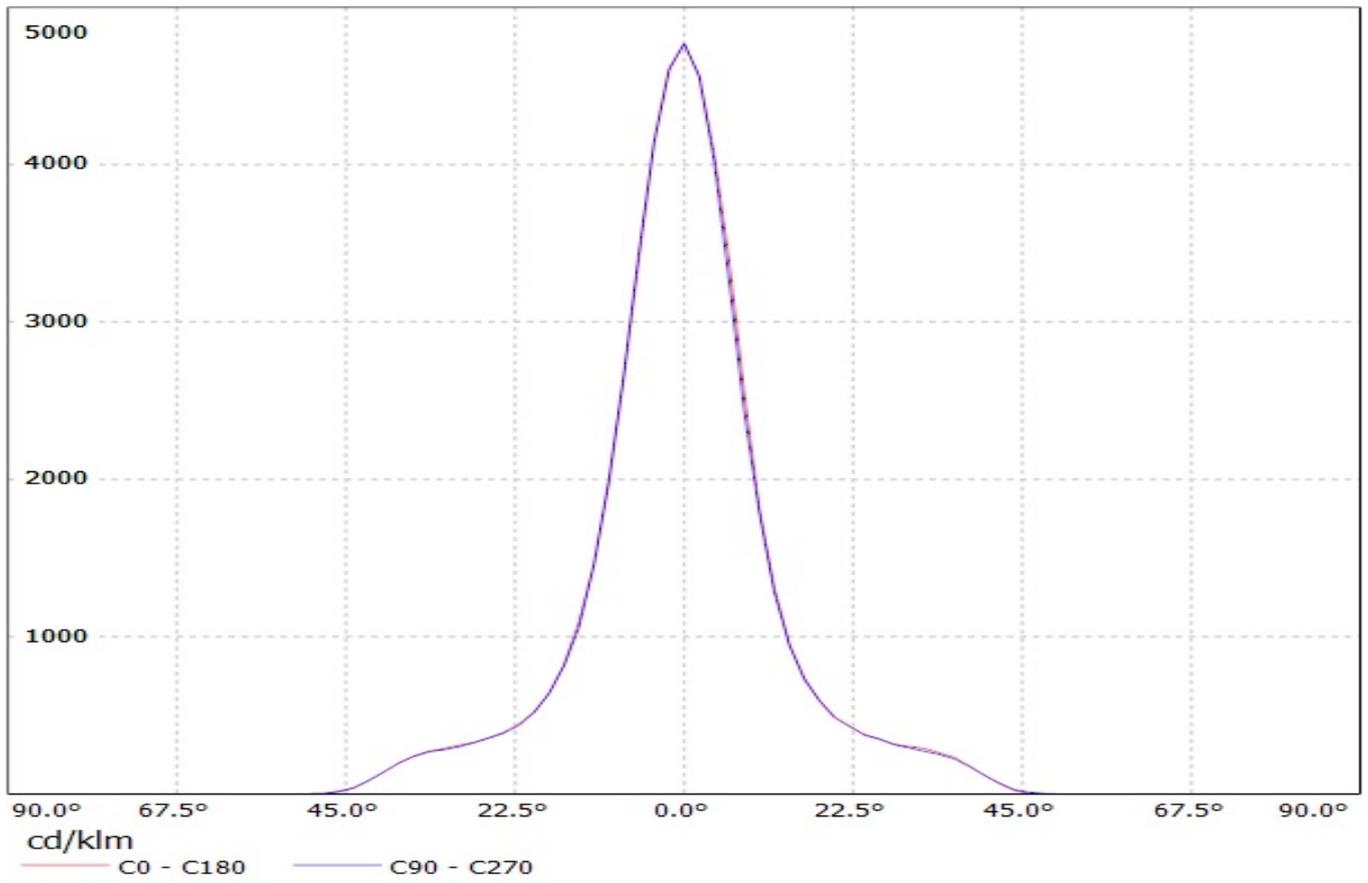
Luminaire: LEDil Oy C12476\_MIRELLA-50-S\_(Stark\_SLE\_G3\_LES10) Efficiency=88%  
Lamps: 1 x Tridonic Stark SLE G3 LES10 (STARK-SLE-PURE-G3-10-1000-830-CLA) 453lm @ 250mA CCT=3000K P=4.3W I=250mA



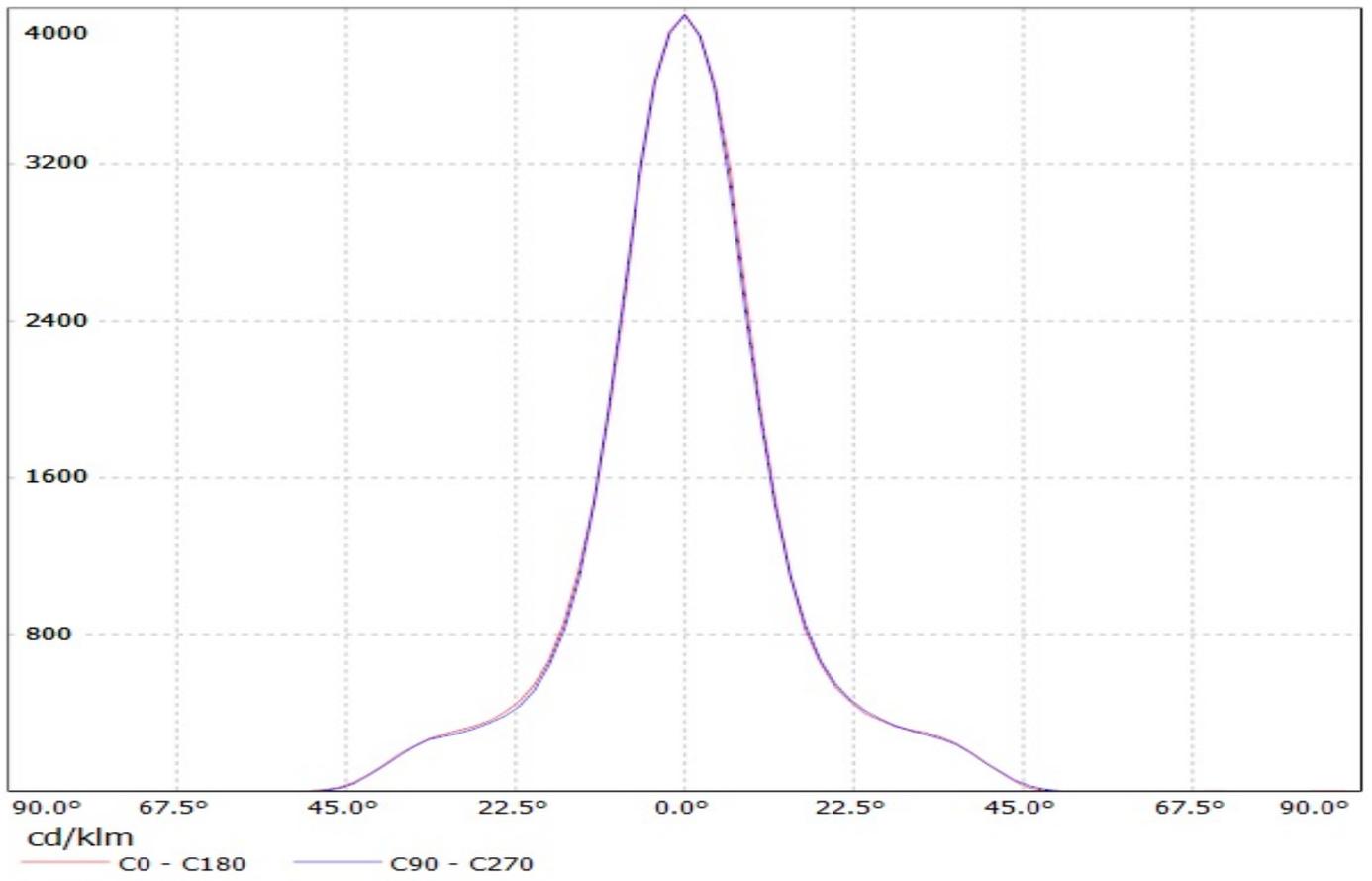
Luminaire: LEDiL Oy C12476\_MIRELLA-50-S\_(CREE\_XHP70)  
Lamps: 1 x CREE\_XHP70\_260.549lm@250mA\_P=1.38255W\_I=0.2499A



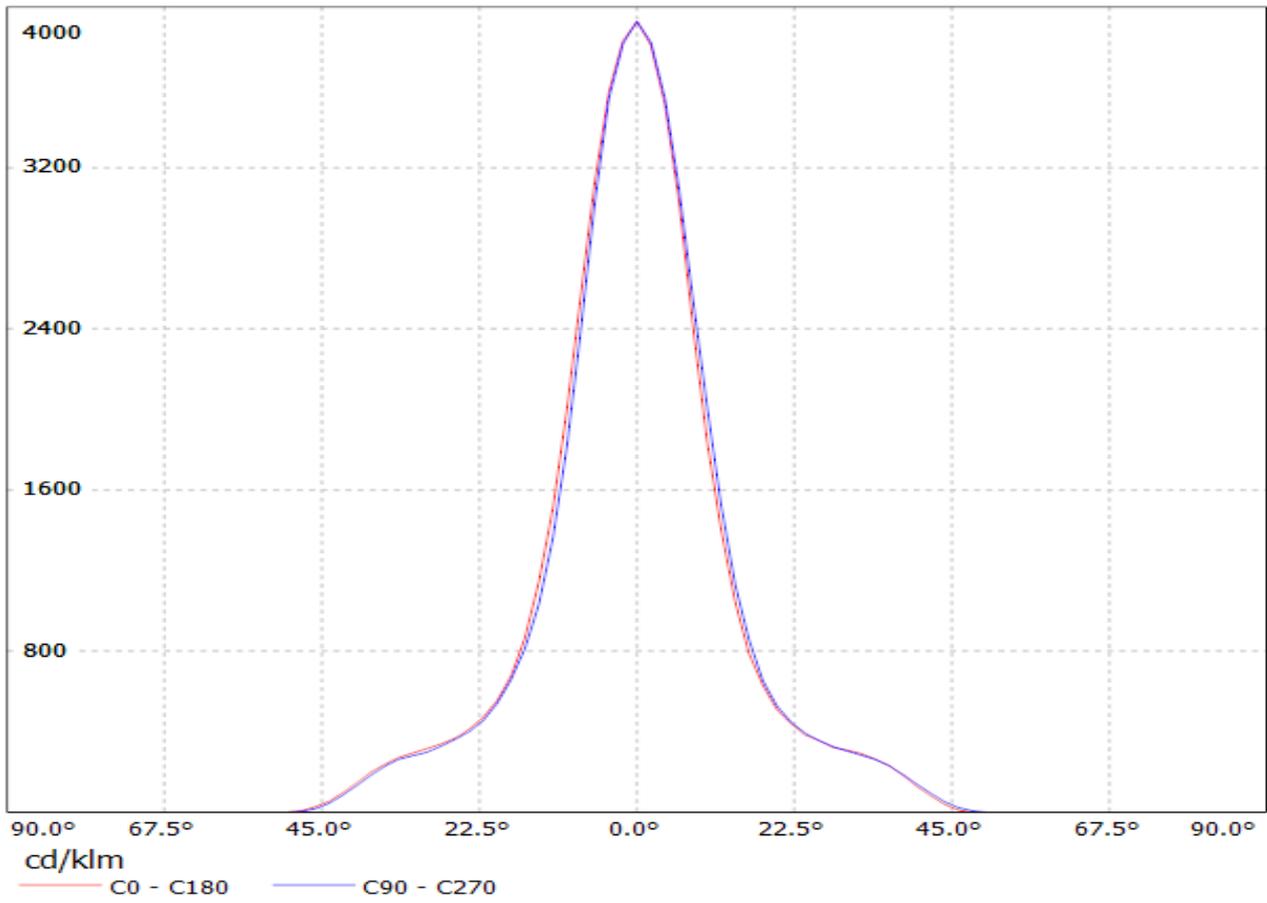
Luminaire: LEDil Oy C12476\_MIRELLA-50-S\_(ZC6) Efficiency=88%  
Lamps: 1 x Seoul ZC6 (SDW81F1c) 422lm @ 100mA CCT=3100K P=3.4W I=100mA



Luminaire: Ledil Oy C12476\_MIRELLA-50-S (NSBxL066A 930lm @ 250mA) Efficiency=90%  
Lamps: 1 x NSBxL066A 930lm @ 250mA (NSBLL066AE) CCT=3536K P=7,75W I=250mA

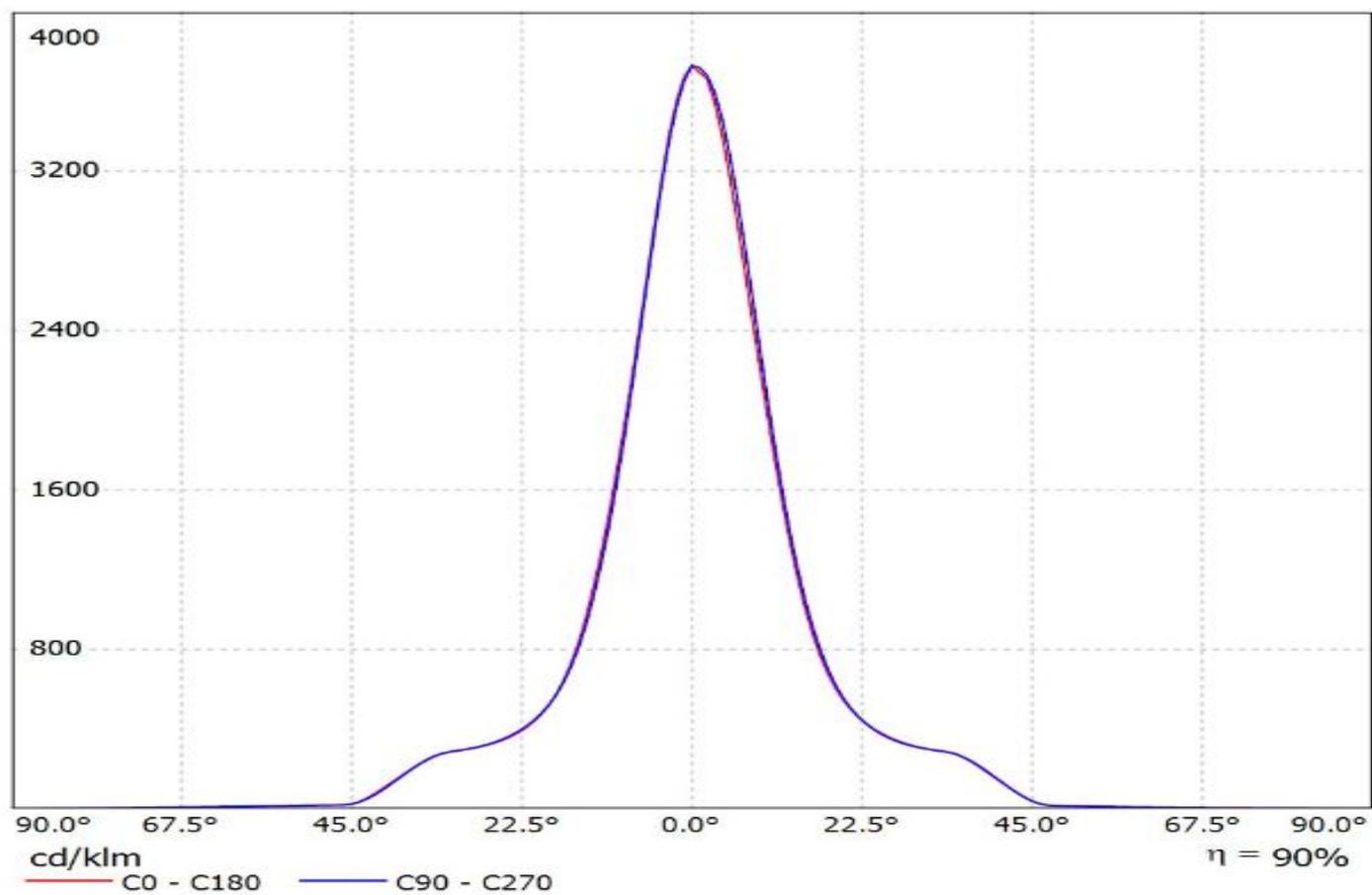


Luminaire: Ledil Oy C12476\_MIRELLA-50-S\_(Luxeon\_CoB\_1203) Efficiency= 89%  
Lamps: 1 x Luxeon Cob 1203 (LHC1-3080-1203) 824lm @ 250mA CCT=3000K P=8,7W I=250mA



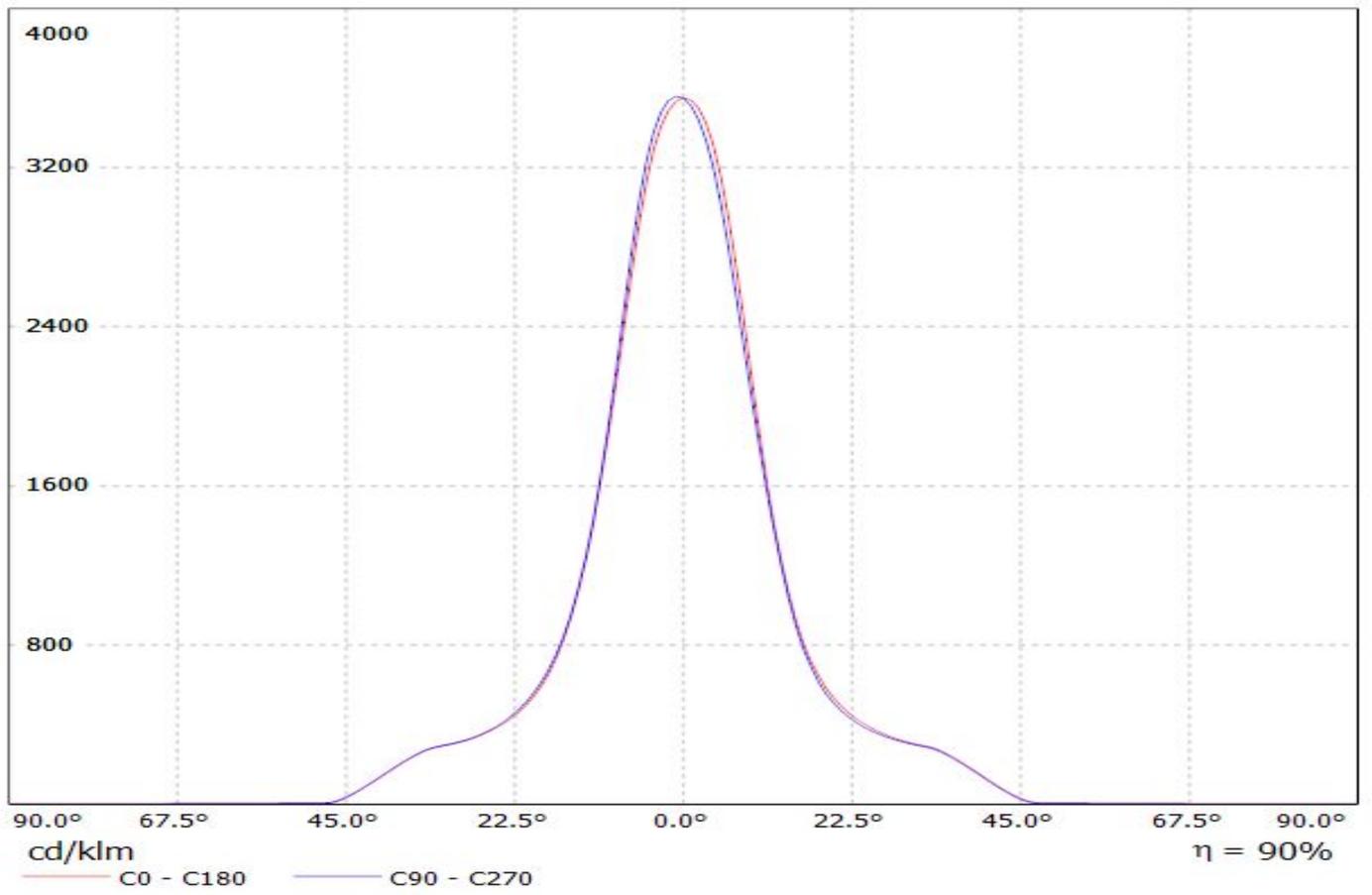
Luminaire: Ledil C12476\_MIRELLA-50-S\_(CLU710)

Lamps: 1 x CITIZEN\_CLU710\_(CLU710-1204B8-273M2G1)\_1212.66lm@250mA\_P=8.5W\_I=0.25A

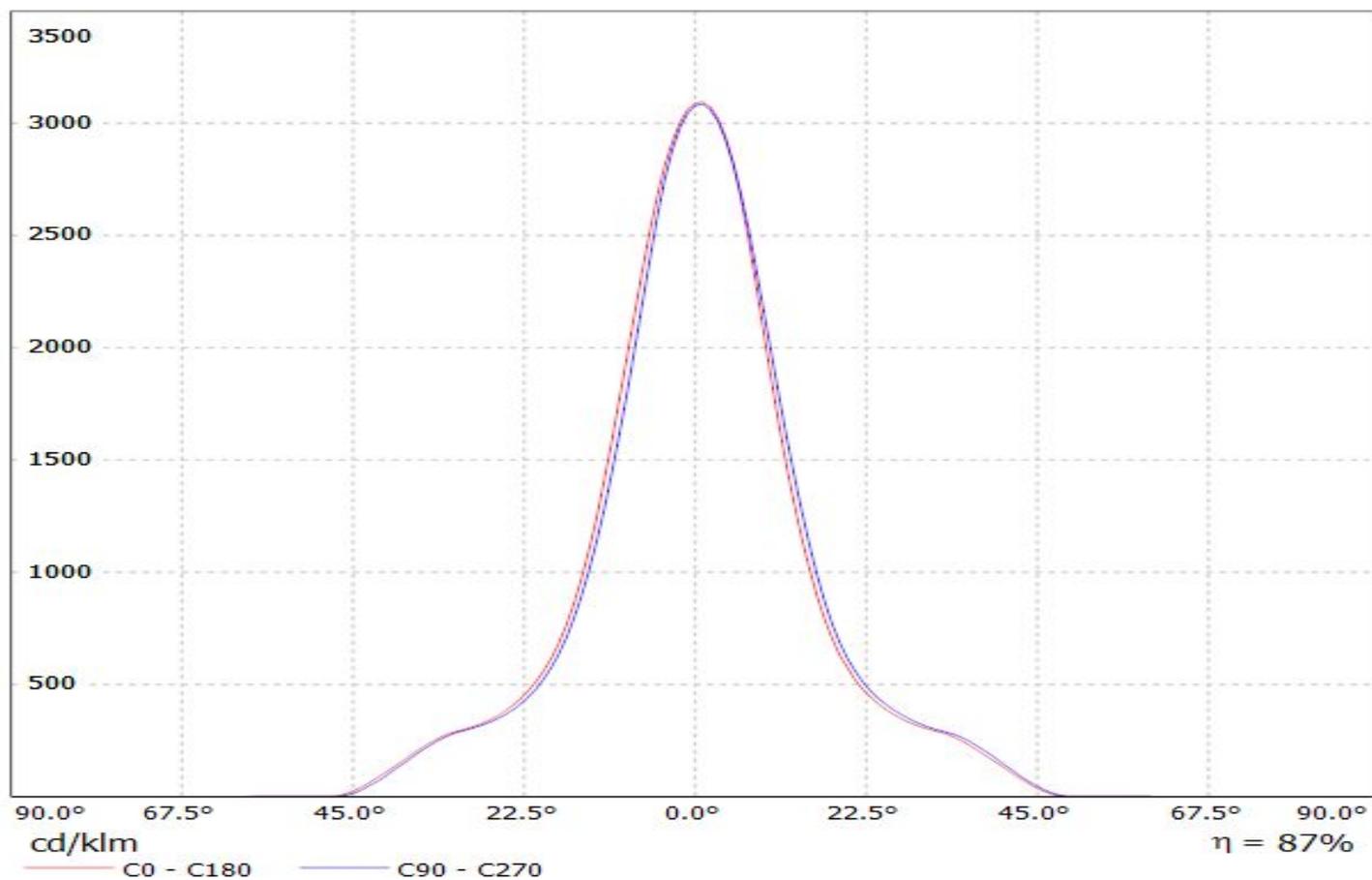


Luminaire: LEDiL Oy C12476\_MIRELLA-50-S\_(CXM-9)

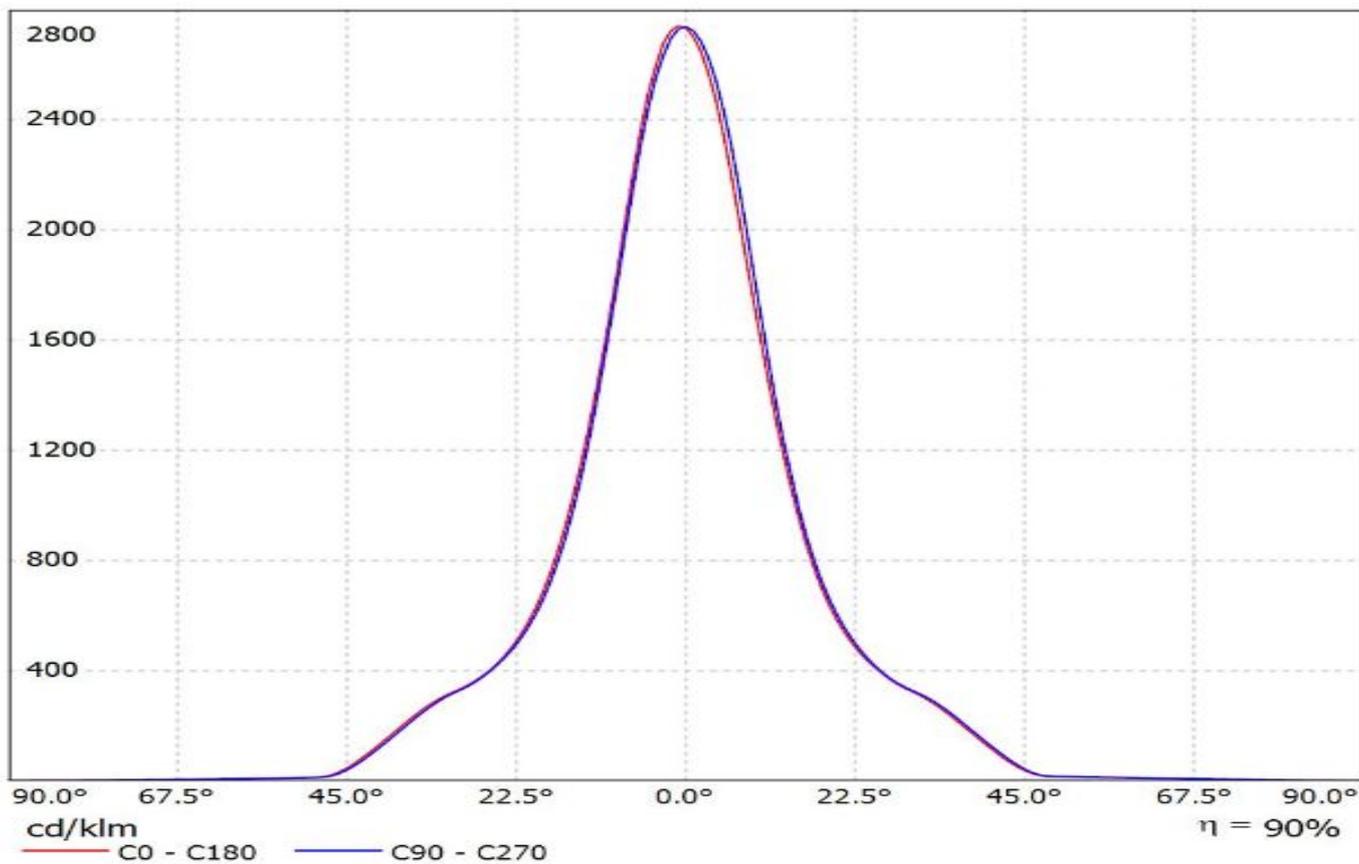
Lamps: 1 x Luminus\_XNOVA\_CXM-9\_(AA00)\_977.302lm@240mA\_P=8.28264W\_I=240mA



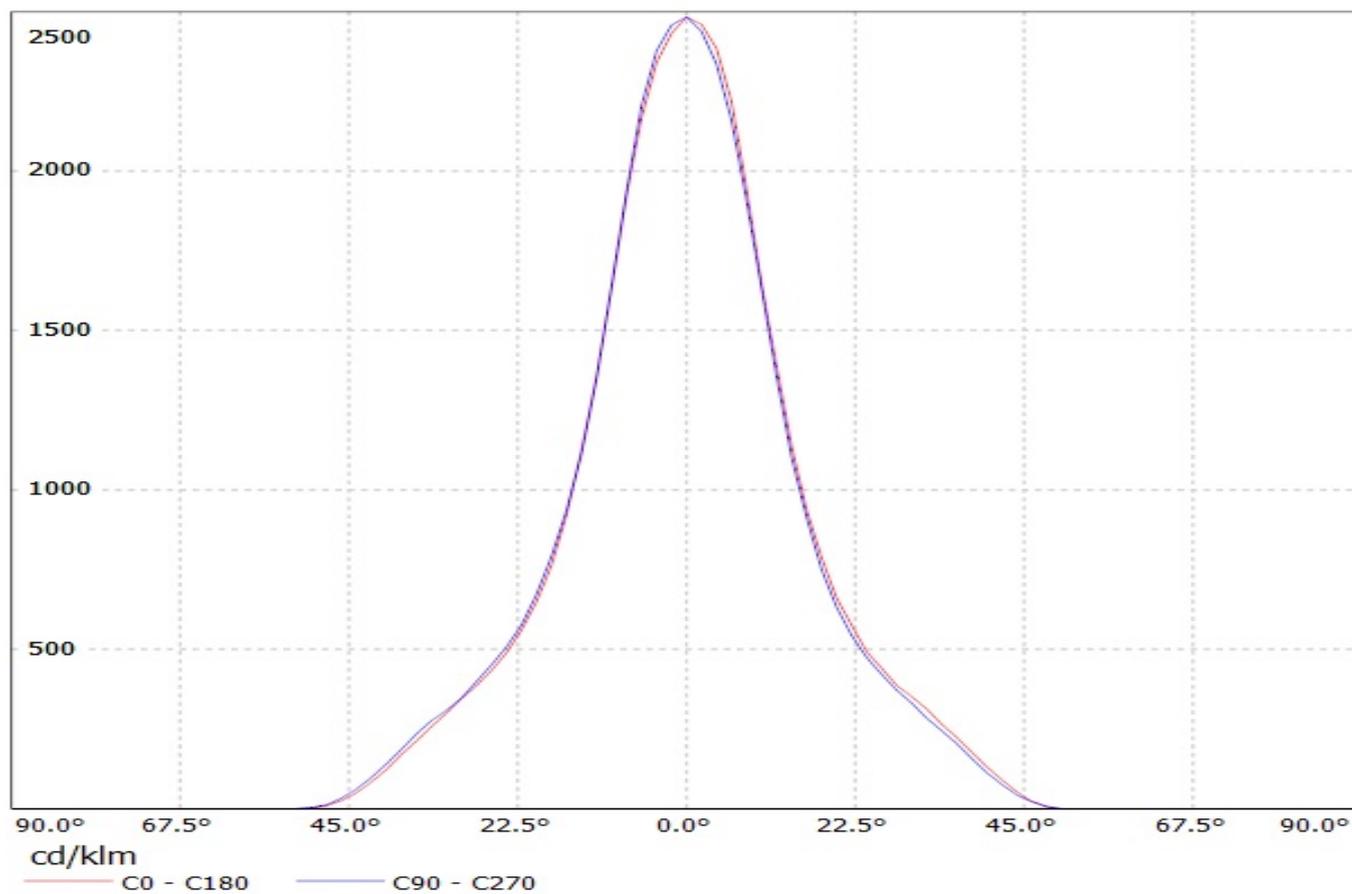
Luminaire: LEDiL Oy C12476\_MIRELLA-50-S\_(SLE-G5\_LES-11)  
Lamps: 1 x Tridonic\_SLE-G5\_LES-11\_1168.86lm@250mA\_P=8.3243W\_I=0.250A



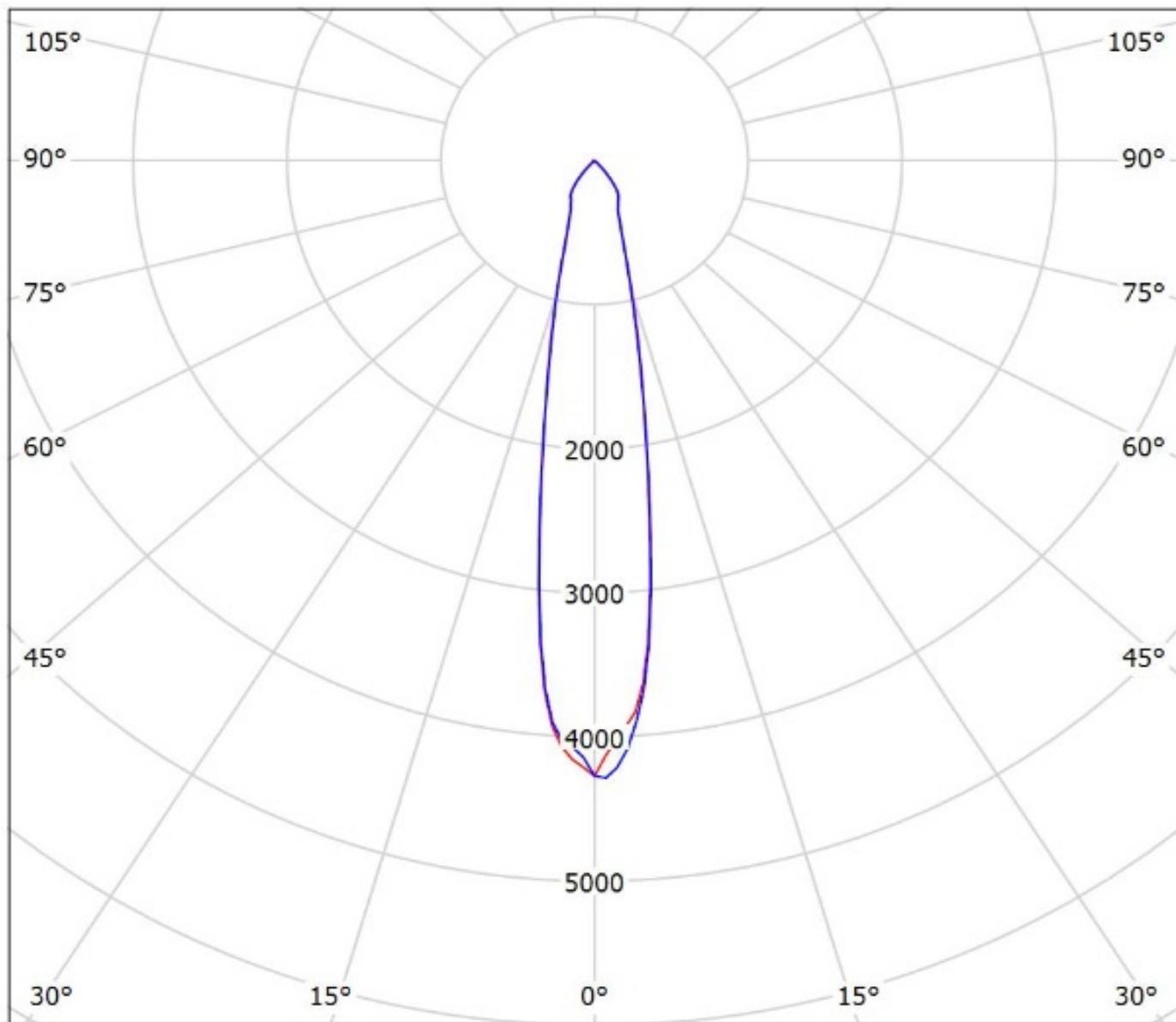
Luminaire: Ledil C12476\_MIRELLA-50-S\_(CLU720)  
Lamps: 1 x CITIZEN\_CLU720\_(CLU720-1206B8-273M2)  
\_1298.17lm@250mA\_CCT=2700K\_P=8.3W\_I=0.25A



Luminaire: LEDil Oy C12476\_MIRELLA-50-S\_(Soleriq\_S13) Efficiency=87%  
Lamps: 1 x Osram Soleriq S13 (GW KAGHB1.EM) 832lm @ 250mA CCT=3100K P=7.4W I=250mA



Luminaire: Ledil Oy C12476\_MIRELLA-50-S\_(Soleriq\_S9)\_SIMULATED  
Lamps: 1 x Osram Soleriq S9 (GW KAJFB3.EM)

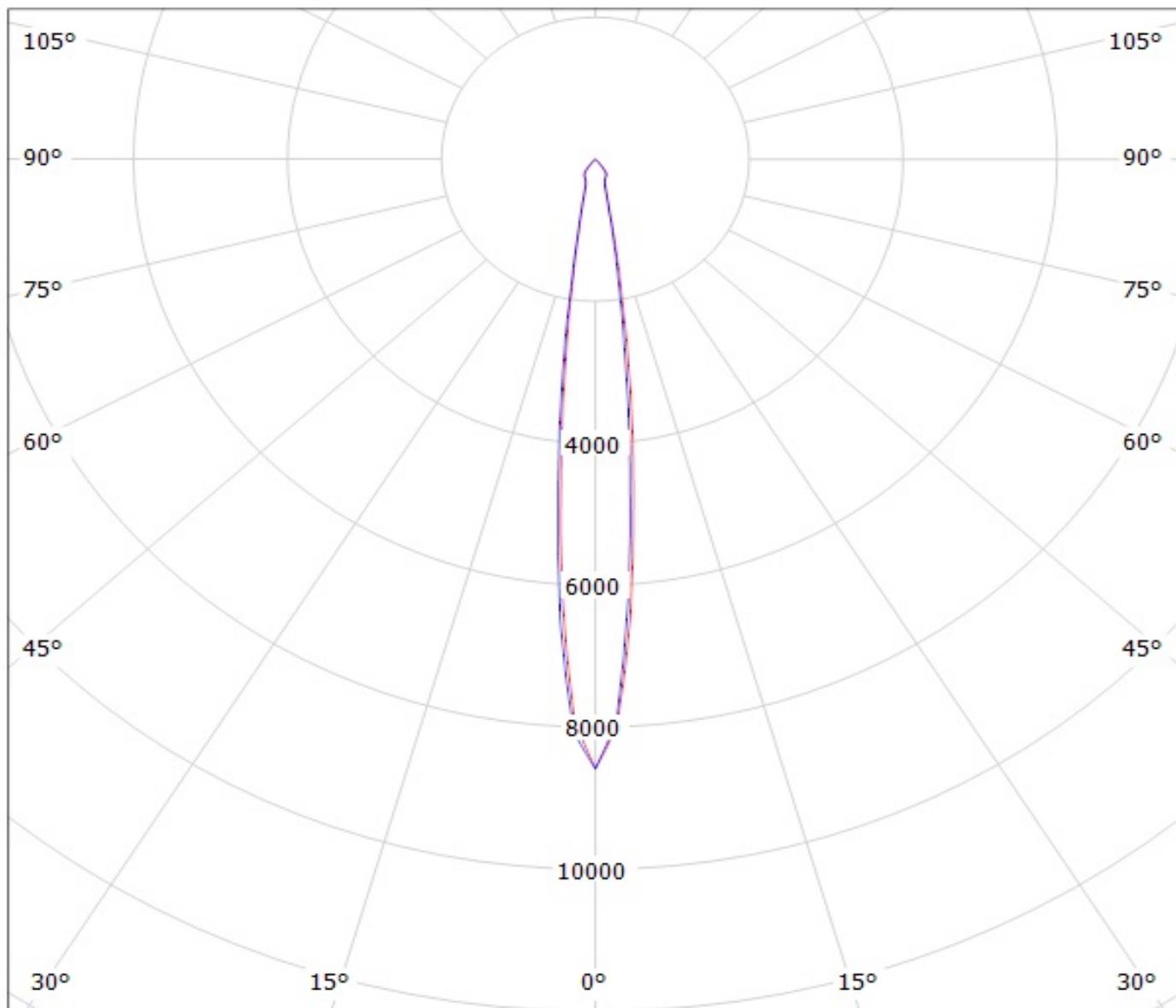


cd/klm

— C0 - C180 — C90 - C270

$\eta = 91\%$

Luminaire: Ledil Oy C12476\_MIRELLA-50-S (Bridgelux LS 170lm @ 250mA) Efficiency=89%  
Lamps: 1 x Bridgelux LS 170lm @ 250mA



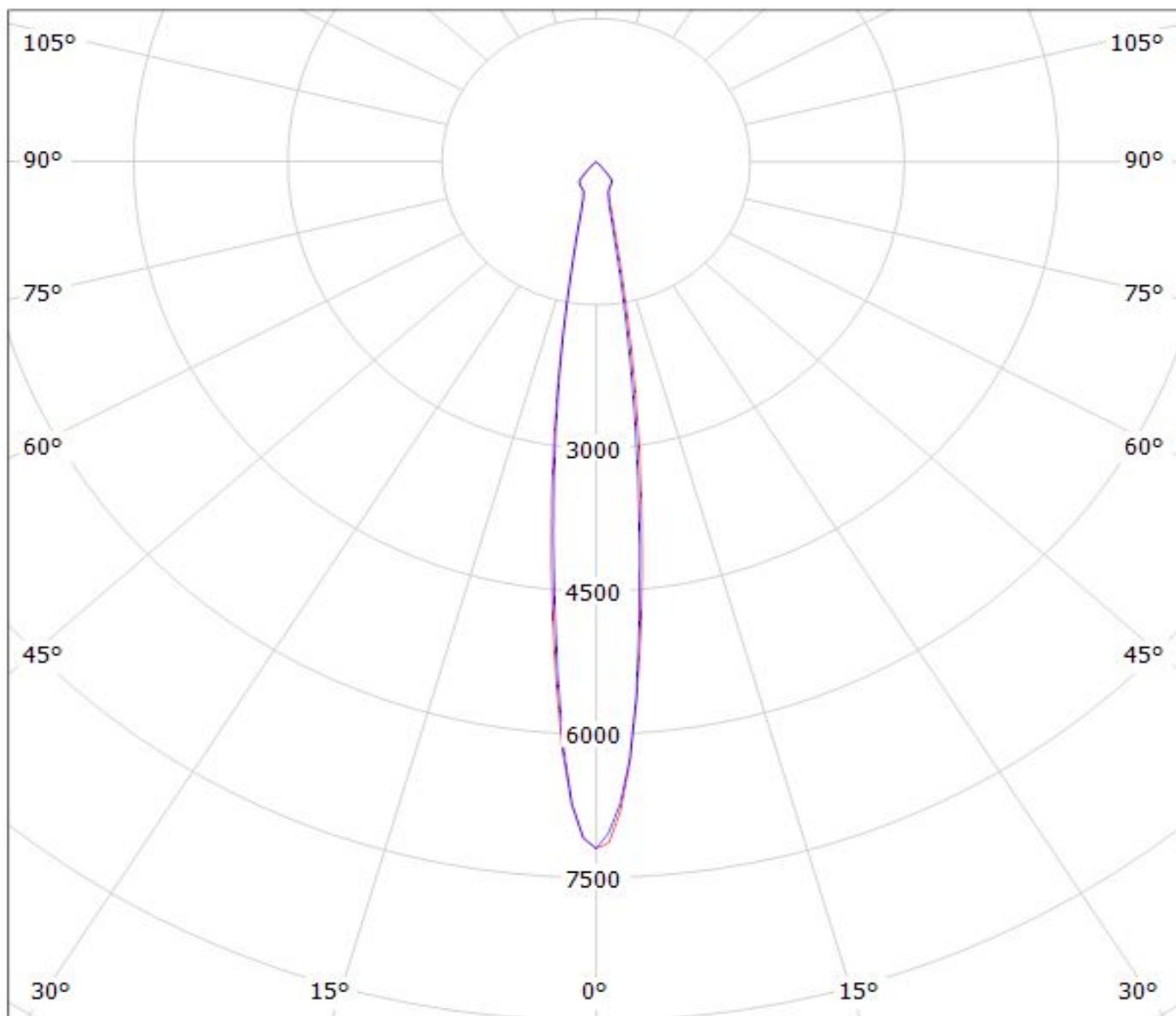
cd/klm

— C0 - C180

— C90 - C270

Luminaire: LEDiL Oy C12476\_MIRELLA-50-S\_(Cree\_XHP50\_WW)

Lamps: 1 x Cree\_XHP50\_WW\_196.271lm@250mA\_P=1.39897W\_I=0.2499A



cd/klm

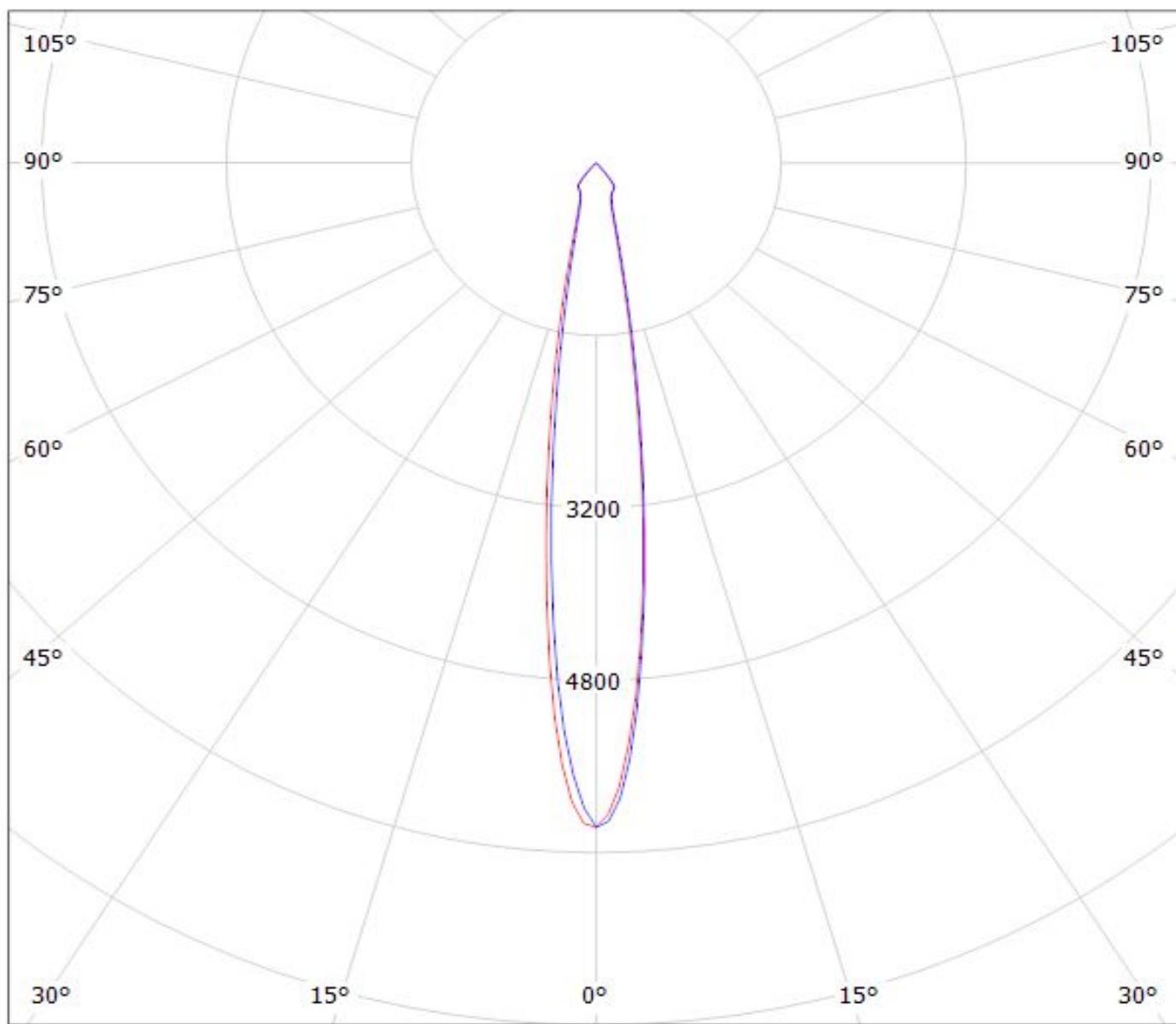
— C0 - C180

— C90 - C270

$\eta = 92\%$

Luminaire: LEDiL Oy C12476\_MIRELLA-50-S\_(CLU700)

Lamps: 1 x CITIZEN\_CLU700\_(CLU700-100-2B8-273M2G1)\_380.605lm@250mA\_P=2.8002W\_I=0.1001A



cd/klm

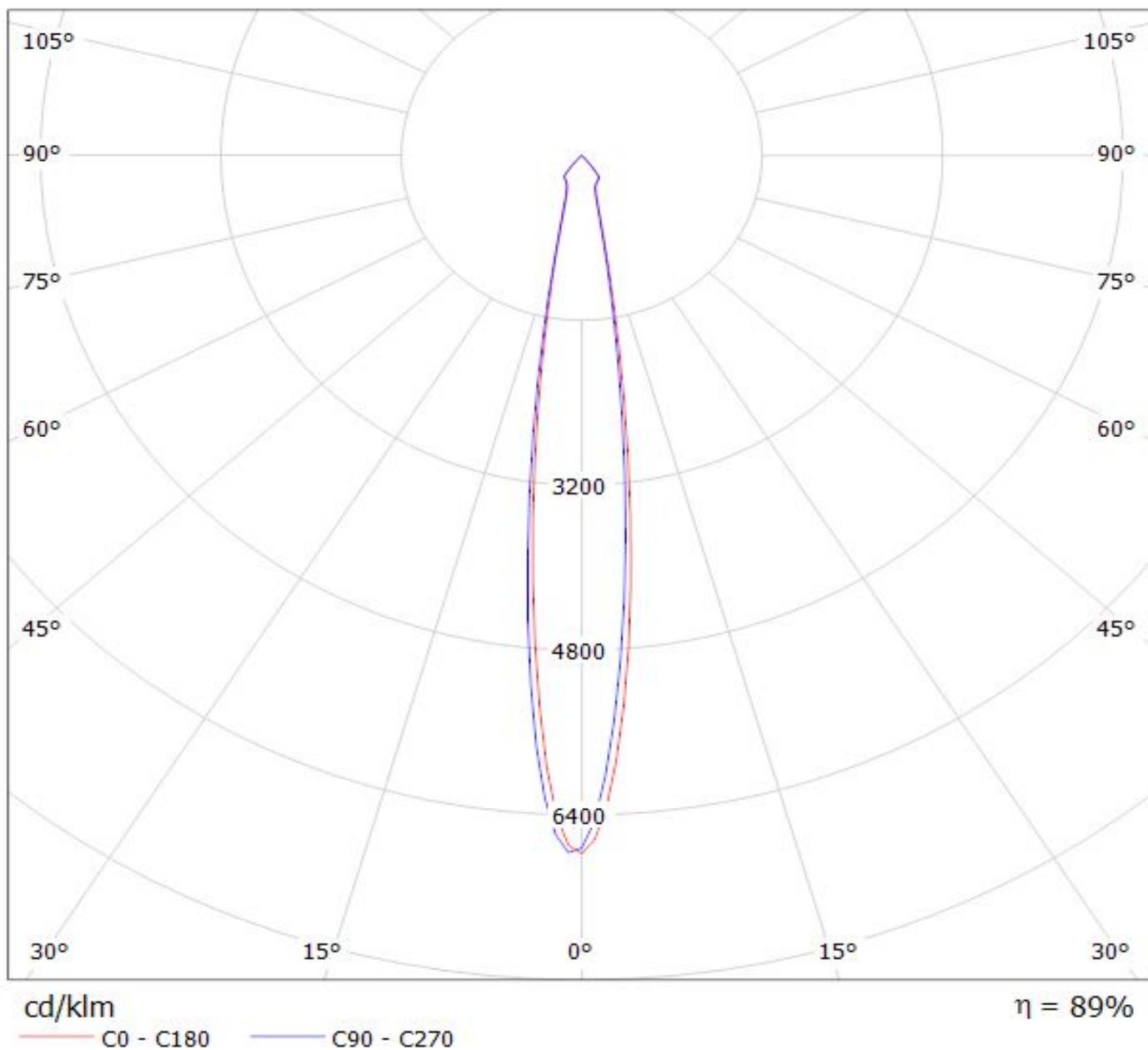
— C0 - C180

— C90 - C270

$\eta = 90\%$

Luminaire: LEDiL Oy C12476\_MIRELLA-50-S\_(SLE-G5\_LES-6)

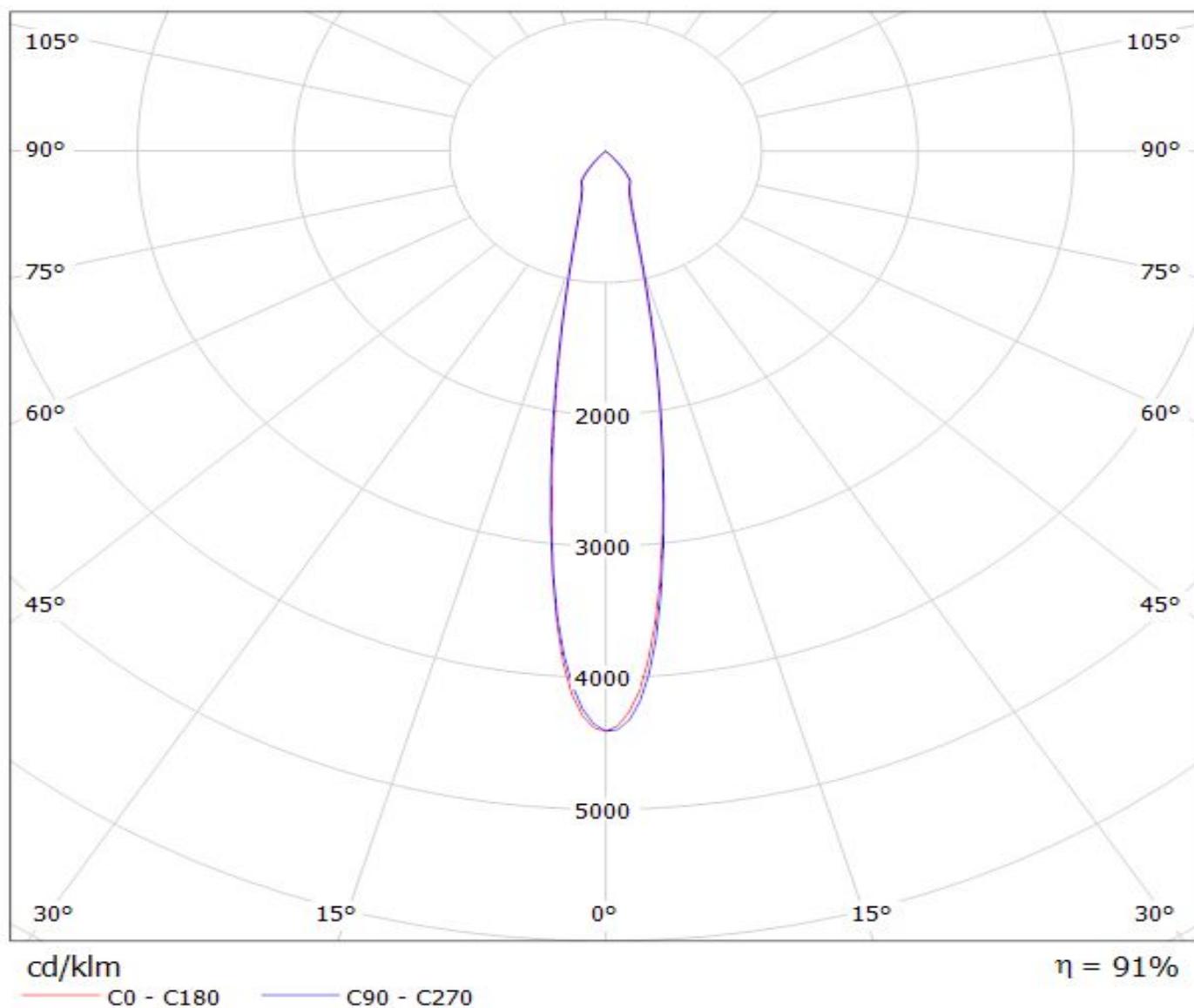
Lamps: 1 x Tridonic\_SLE-G5\_LES-6\_470.59lm@100mA\_P=3.3748W\_I=0.100A



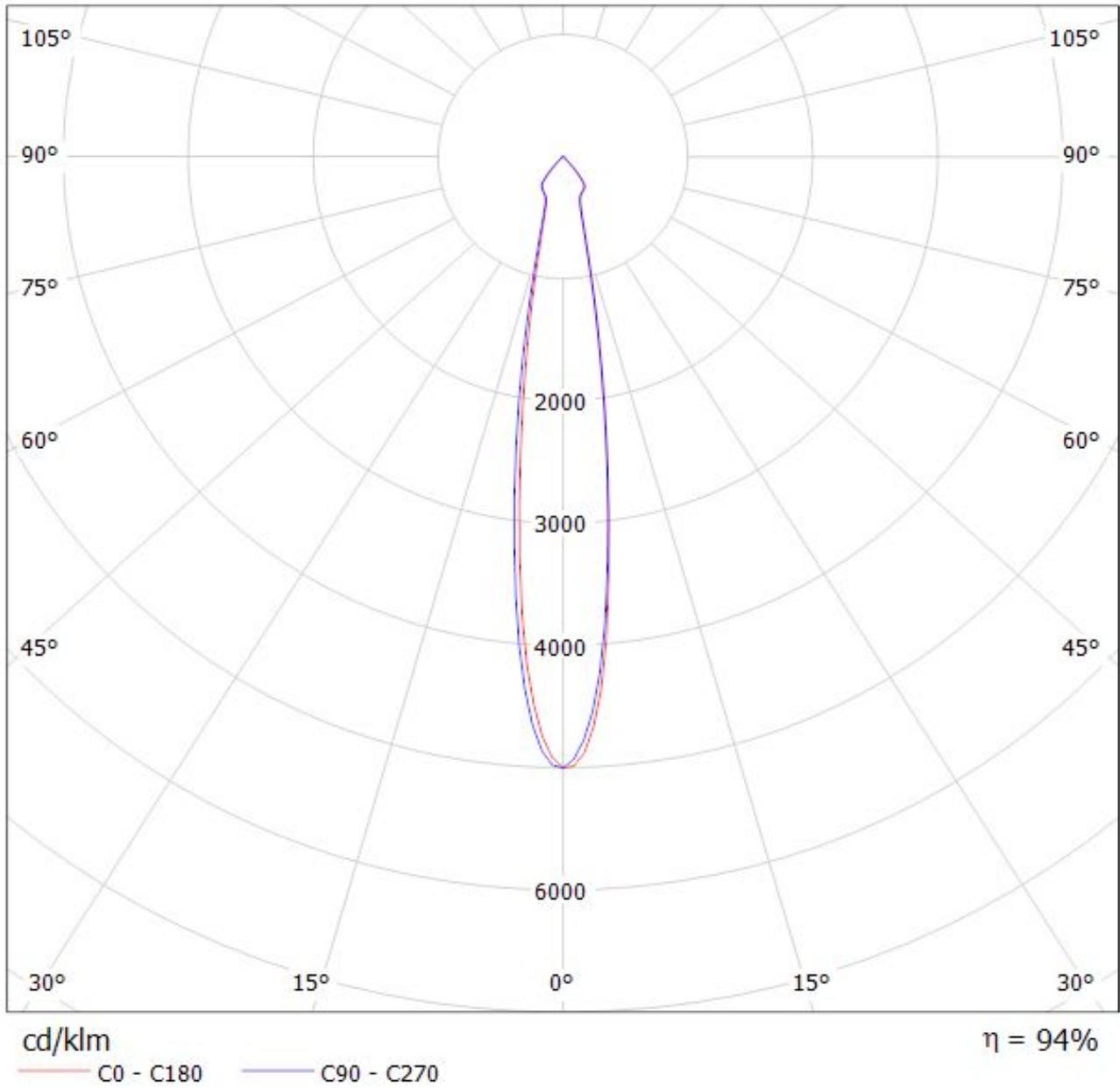
# LEDiL Oy C12476\_MIRELLA-50-S\_(CXA1507) Eff.91.6% / LDC (Polar)

Luminaire: LEDiL Oy C12476\_MIRELLA-50-S\_(CXA1507) Eff.91.6%

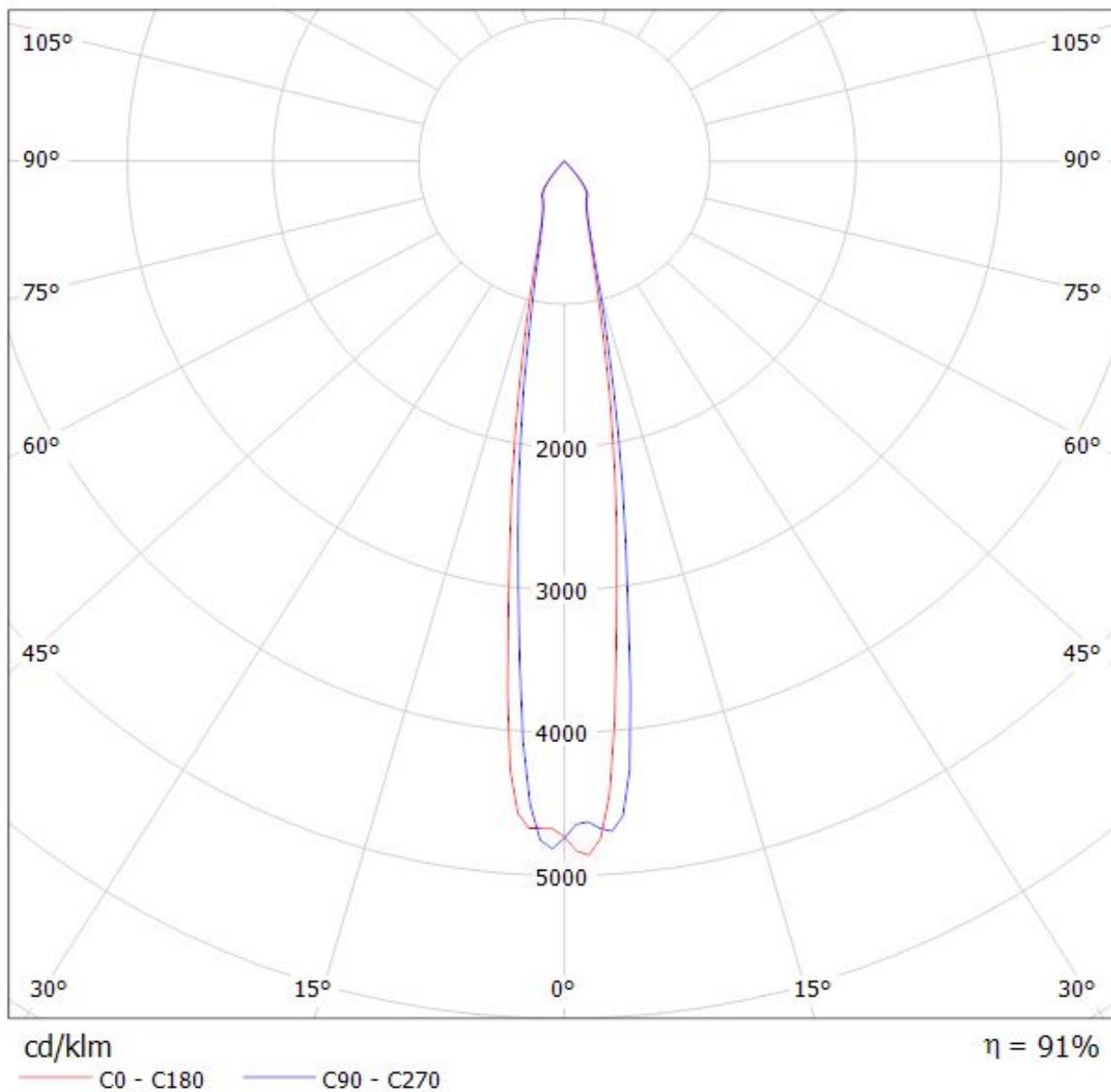
Lamps: 1 x CREE\_CXA1507 (CXA1507-30F-F2-N0A-00000) 238.378lm@50mA CCT=3000K P=1.8506W I=54.5mA



Luminaire: Ledil C12476\_MIRELLA-50-S\_(MHD-G)  
Lamps: 1 x Cree MHD-G\_528.649lm@100mA\_P=3.0W\_I=0.100A



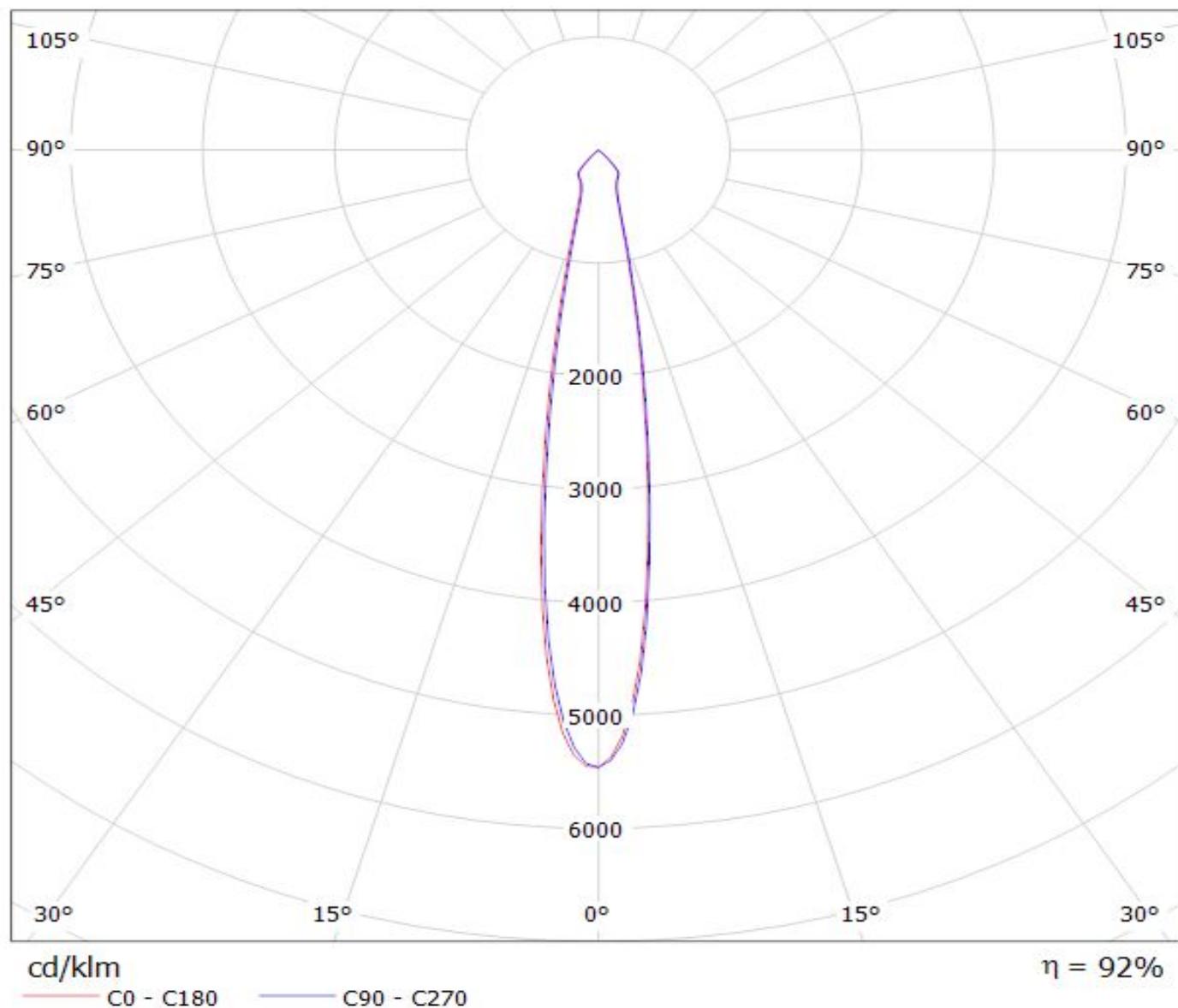
Luminaire: LEDIL OY C12476\_MIRELLA-50-S\_(MiniZenigata) Eff.91.6%  
Lamps: 1 x Mini Zenigata (387.5lm@250mA)



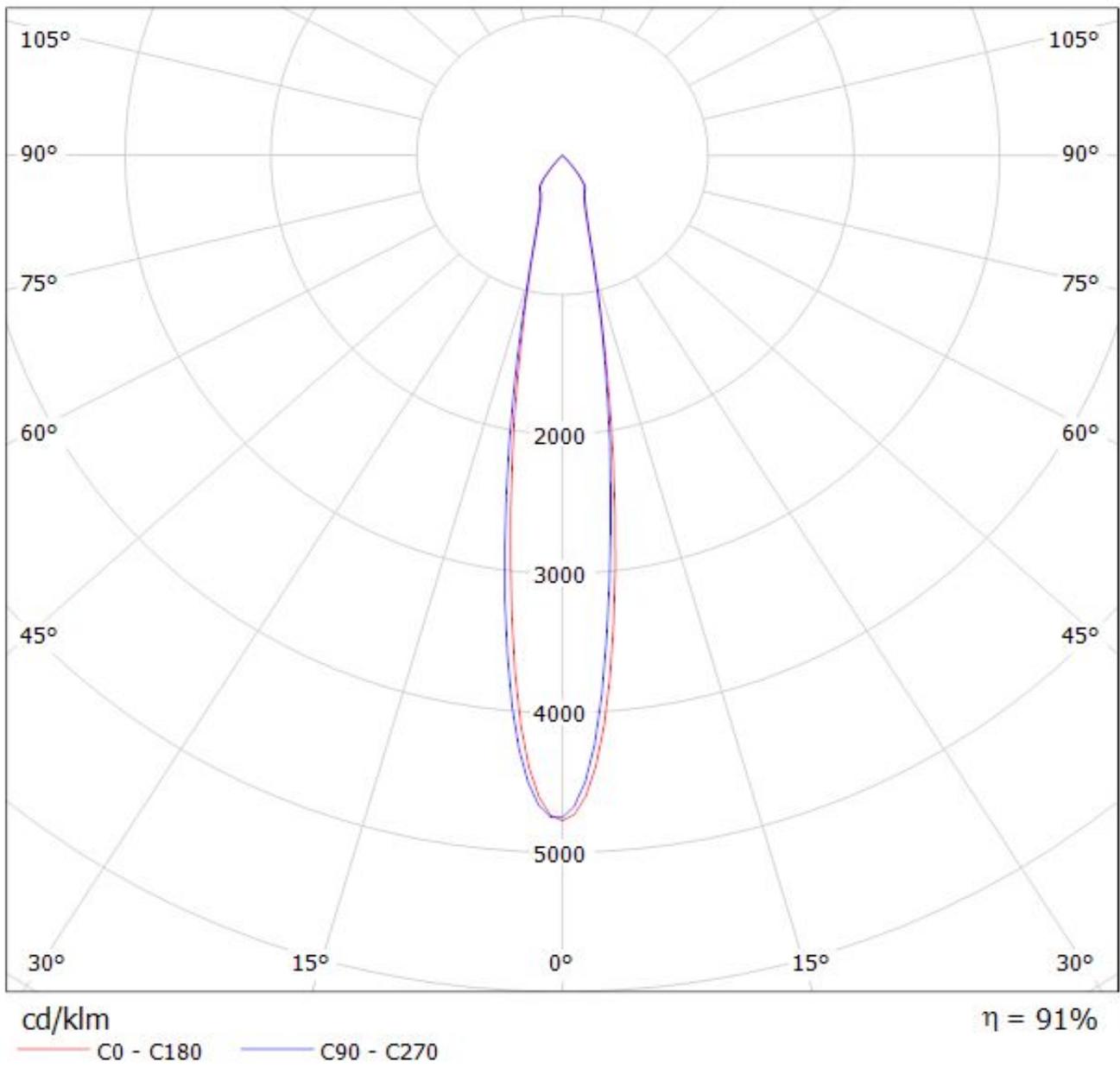
# LEDiL Oy C12476\_MIRELLA-50-S\_(MT-G2) Eff.92.1% / LDC (Polar)

Luminaire: LEDiL Oy C12476\_MIRELLA-50-S\_(MT-G2) Eff.92.1%

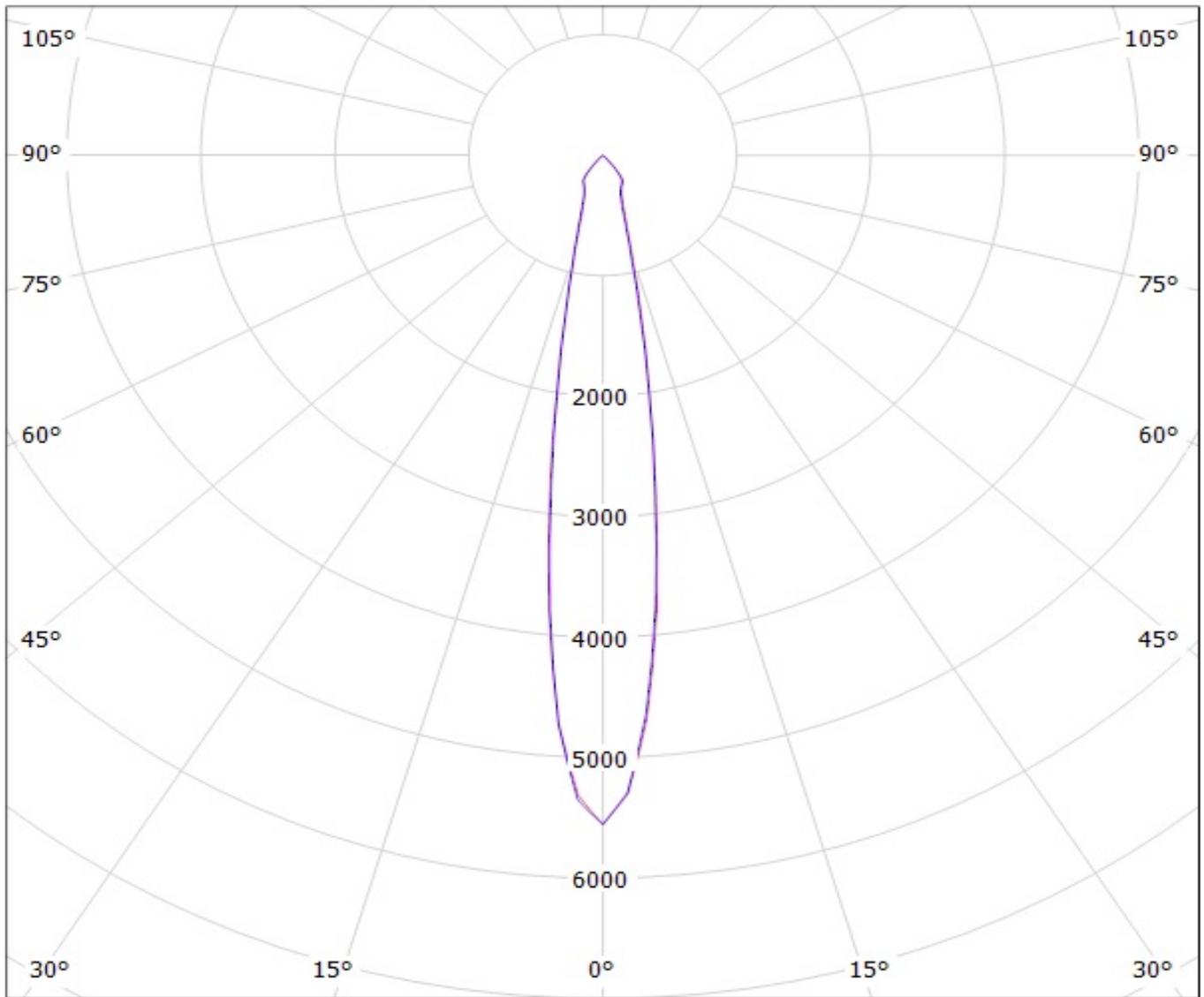
Lamps: 1 x MT-G2 (168lm@250mA)



Luminaire: LEDiL Oy C12476\_MIRELLA-50-S\_(Mini\_Zenigata) Eff.91.1%  
Lamps: 1 x Mini\_Zenigata GW6BM (803.772lm@250mA)



Luminaire: Ledil Oy C12476\_MIRELLA-50-S (Nichia NSCxL036A 434lm @ 100mA) Efficiency=88%  
Lamps: 1 x Nichia NSCxL036A 434lm @ 100mA (NSCLL036A) CCT=3000K P=3,4W I=100mA

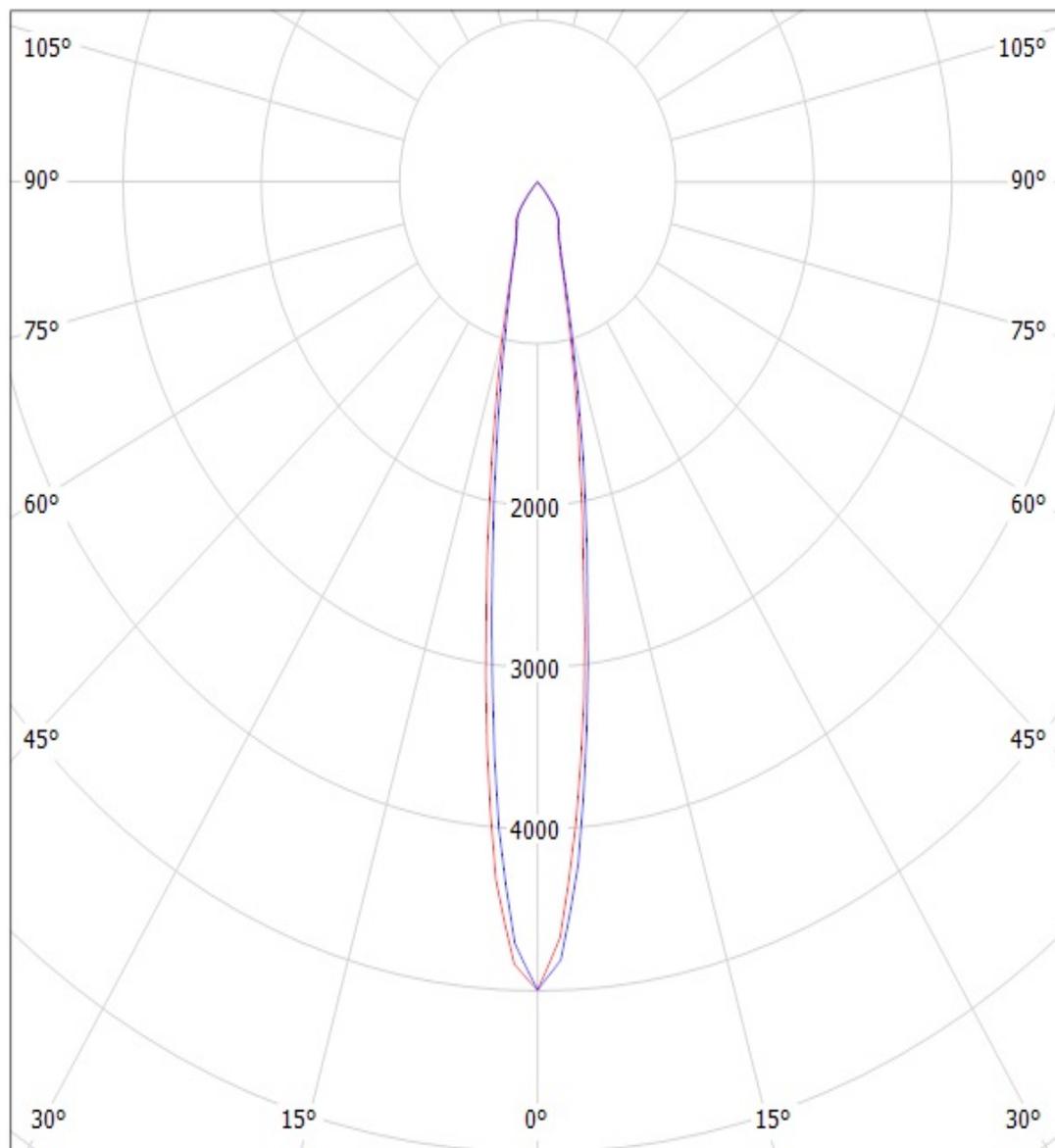


cd/klm

— C0 - C180

— C90 - C270

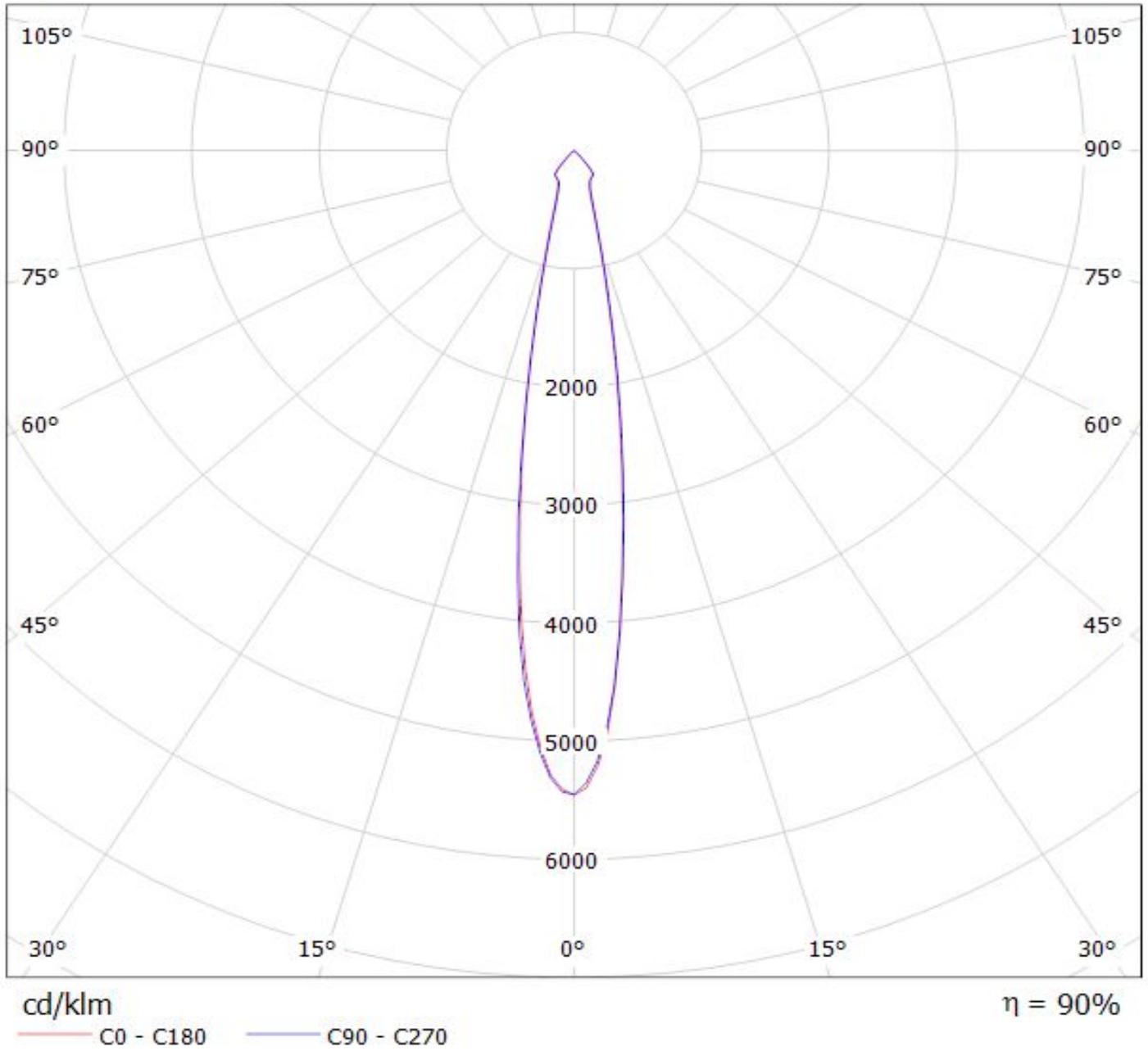
Luminaire: LEDil Oy C12476\_MIRELLA-50-S\_(Stark\_SLE\_G3\_LES10) Efficiency=88%  
Lamps: 1 x Tridonic Stark SLE G3 LES10 (STARK-SLE-PURE-G3-10-1000-830-CLA) 453lm @ 250mA CCT=3000K P=4.3W I=250mA



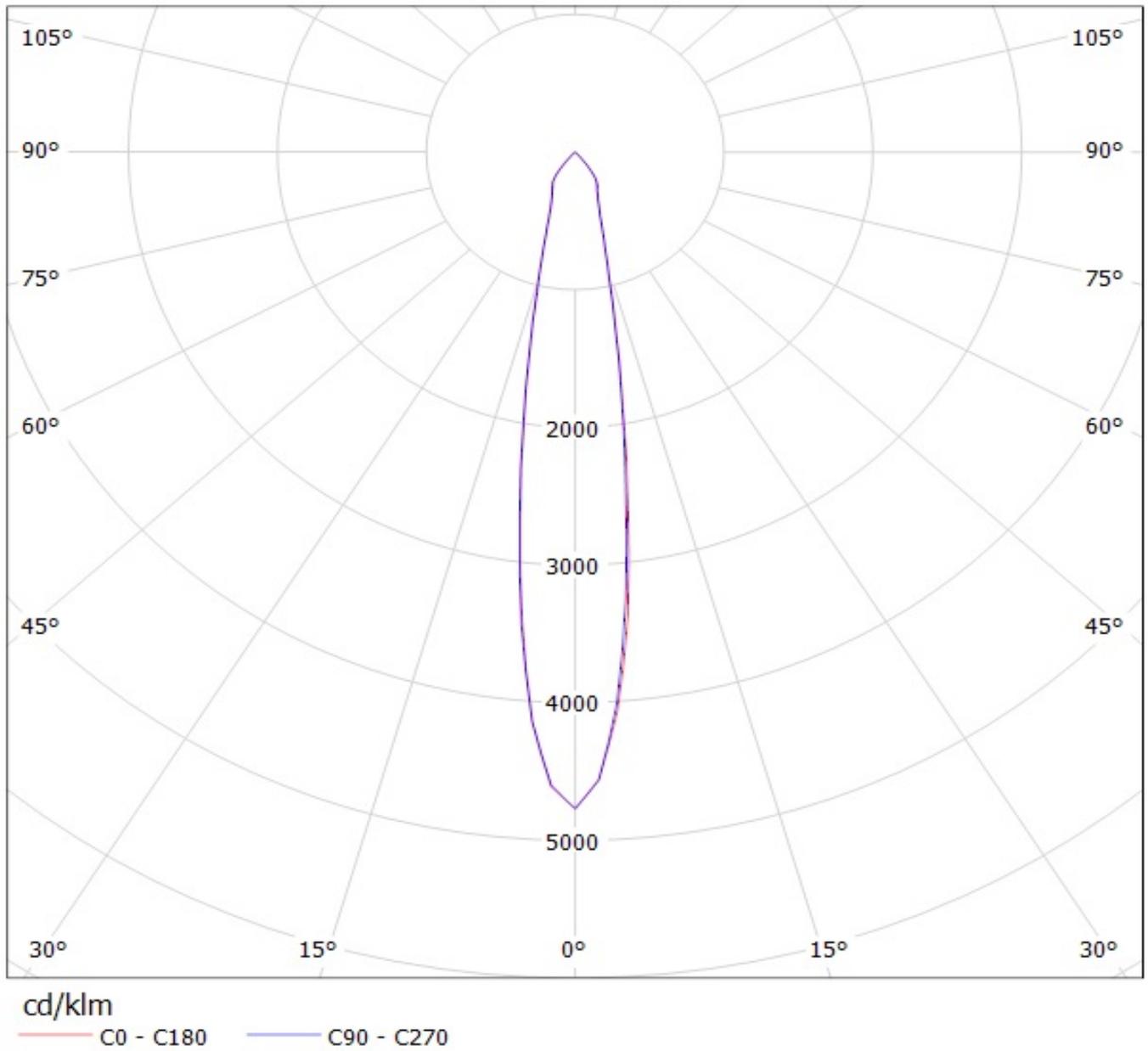
cd/klm

— C0 - C180    — C90 - C270

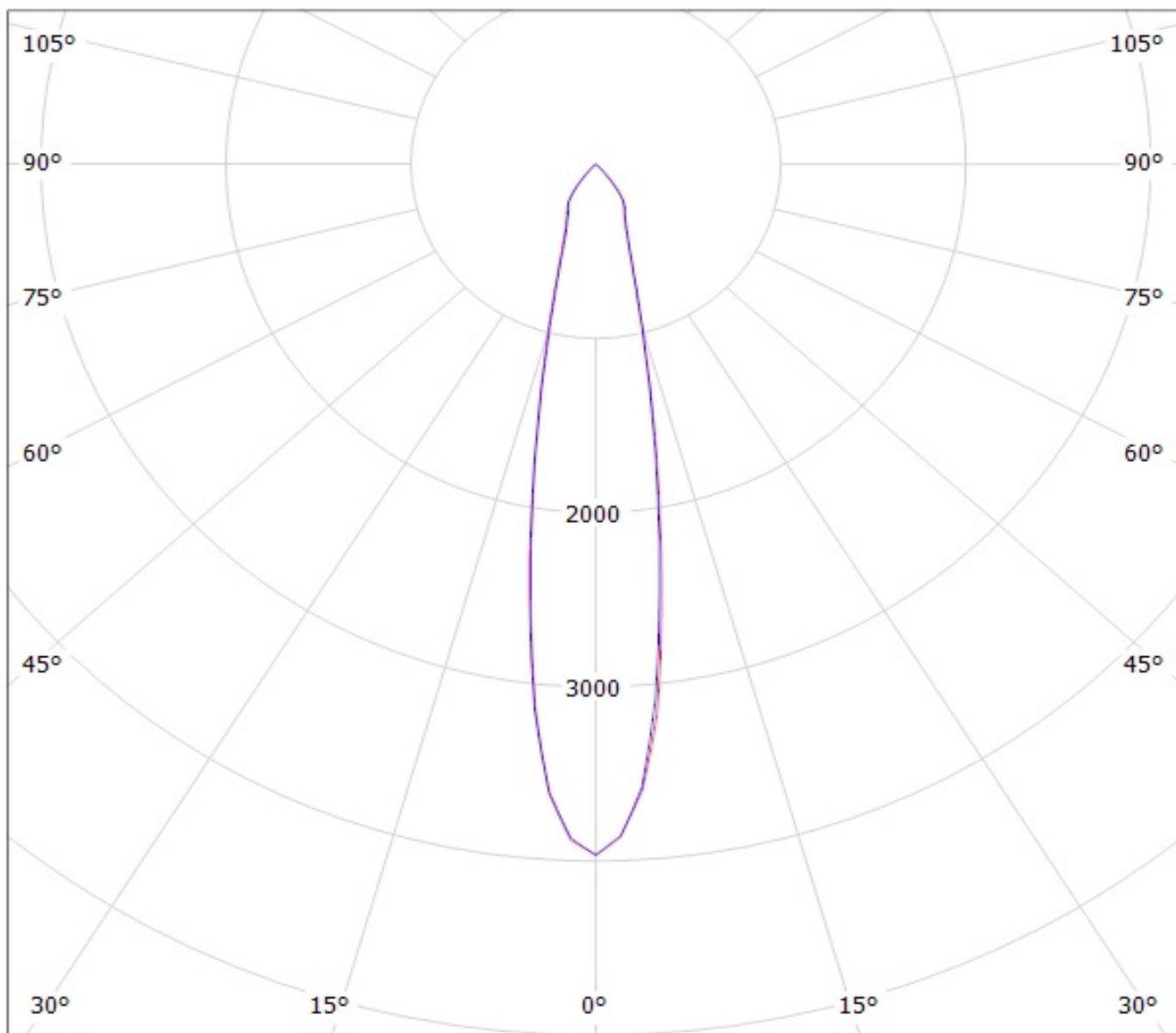
Luminaire: LEDiL Oy C12476\_MIRELLA-50-S\_(CREE\_XHP70)  
Lamps: 1 x CREE\_XHP70\_260.549lm@250mA\_P=1.38255W\_I=0.2499A



Luminaire: LEDil Oy C12476\_MIRELLA-50-S\_(ZC6) Efficiency=88%  
Lamps: 1 x Seoul ZC6 (SDW81F1c) 422lm @ 100mA CCT=3100K P=3.4W I=100mA



Luminaire: Ledil Oy C12476\_MIRELLA-50-S (NSBxL066A 930lm @ 250mA) Efficiency=90%  
Lamps: 1 x NSBxL066A 930lm @ 250mA (NSBL066AE) CCT=3536K P=7,75W I=250mA

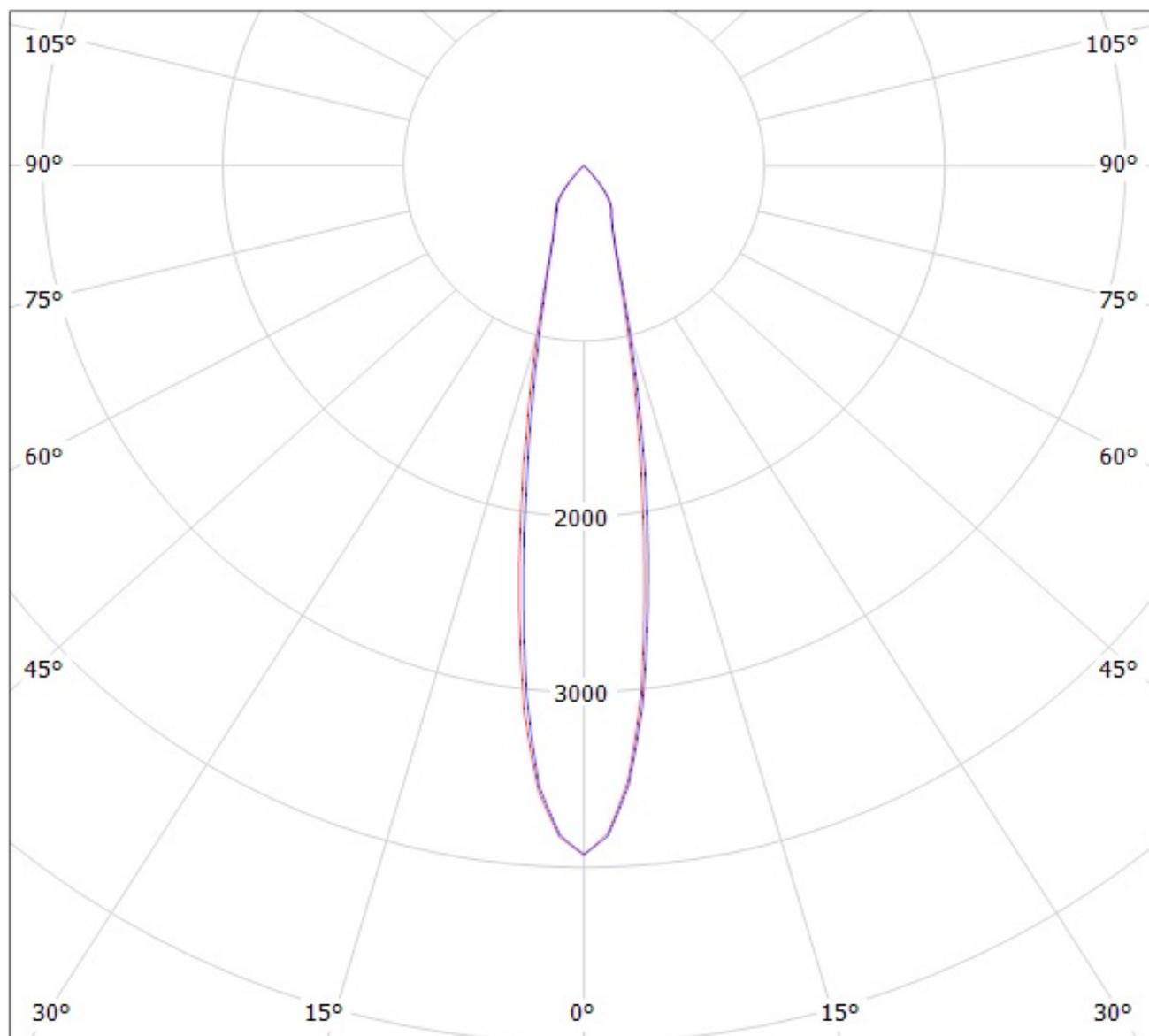


cd/klm

— C0 - C180

— C90 - C270

Luminaire: Ledil Oy C12476\_MIRELLA-50-S\_(Luxeon\_CoB\_1203) Efficiency= 89%  
Lamps: 1 x Luxeon Cob 1203 (LHC1-3080-1203) 824lm @ 250mA CCT=3000K P=8,7W I=250mA

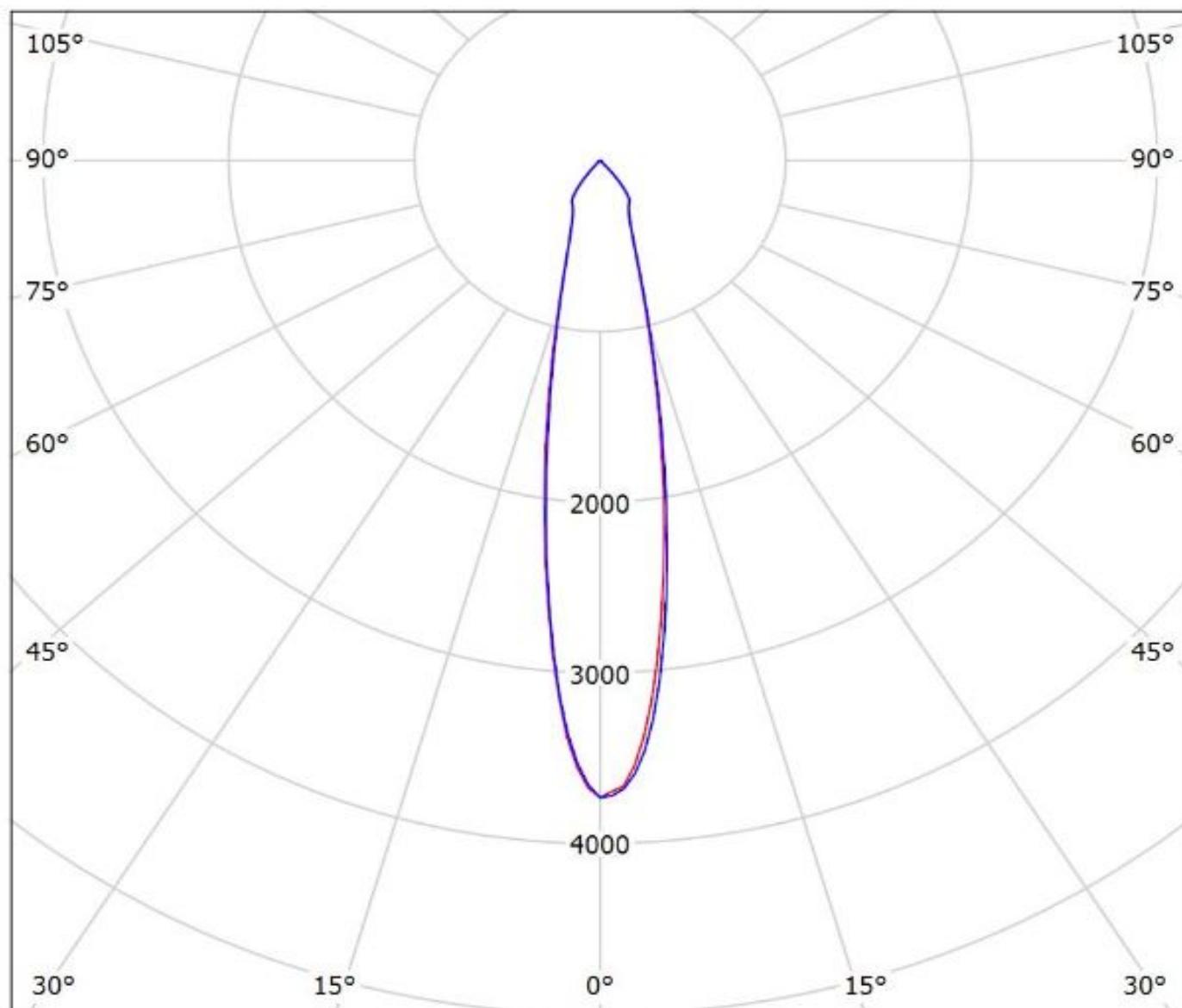


cd/klm

— C0 - C180    — C90 - C270

Luminaire: Ledil C12476\_MIRELLA-50-S\_(CLU710)

Lamps: 1 x CITIZEN\_CLU710\_(CLU710-1204B8-273M2G1)\_1212.66lm@250mA\_P=8.5W\_I=0.25A



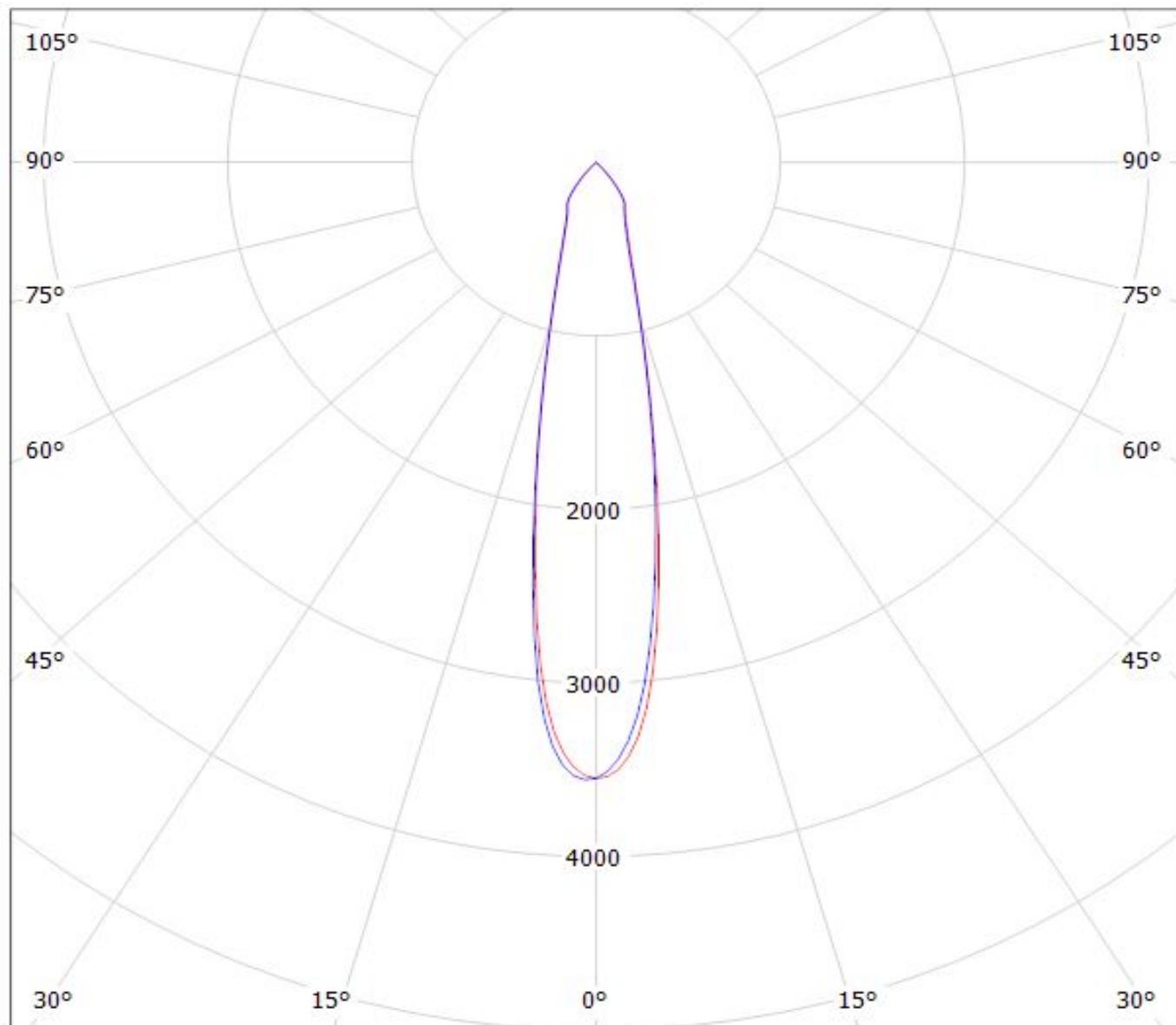
cd/klm

— C0 - C180 — C90 - C270

$\eta = 90\%$

Luminaire: LEDiL Oy C12476\_MIRELLA-50-S\_(CXM-9)

Lamps: 1 x Luminus\_XNOVA\_CXM-9\_(AA00)\_977.302lm@240mA\_P=8.28264W\_I=240mA



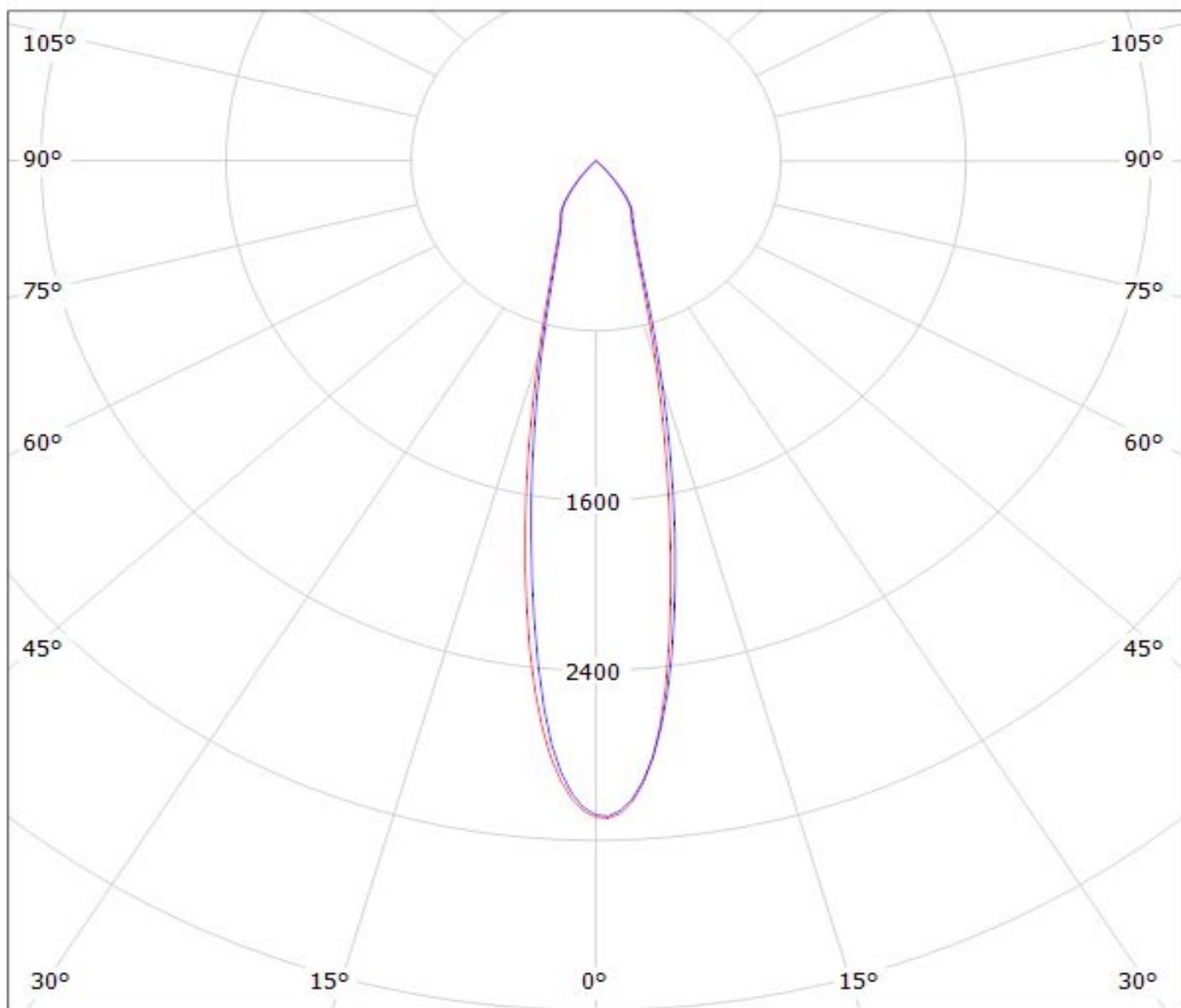
cd/klm

$\eta = 90\%$

— C0 - C180    — C90 - C270

Luminaire: LEDiL Oy C12476\_MIRELLA-50-S\_(SLE-G5\_LES-11)

Lamps: 1 x Tridonic\_SLE-G5\_LES-11\_1168.86lm@250mA\_P=8.3243W\_I=0.250A



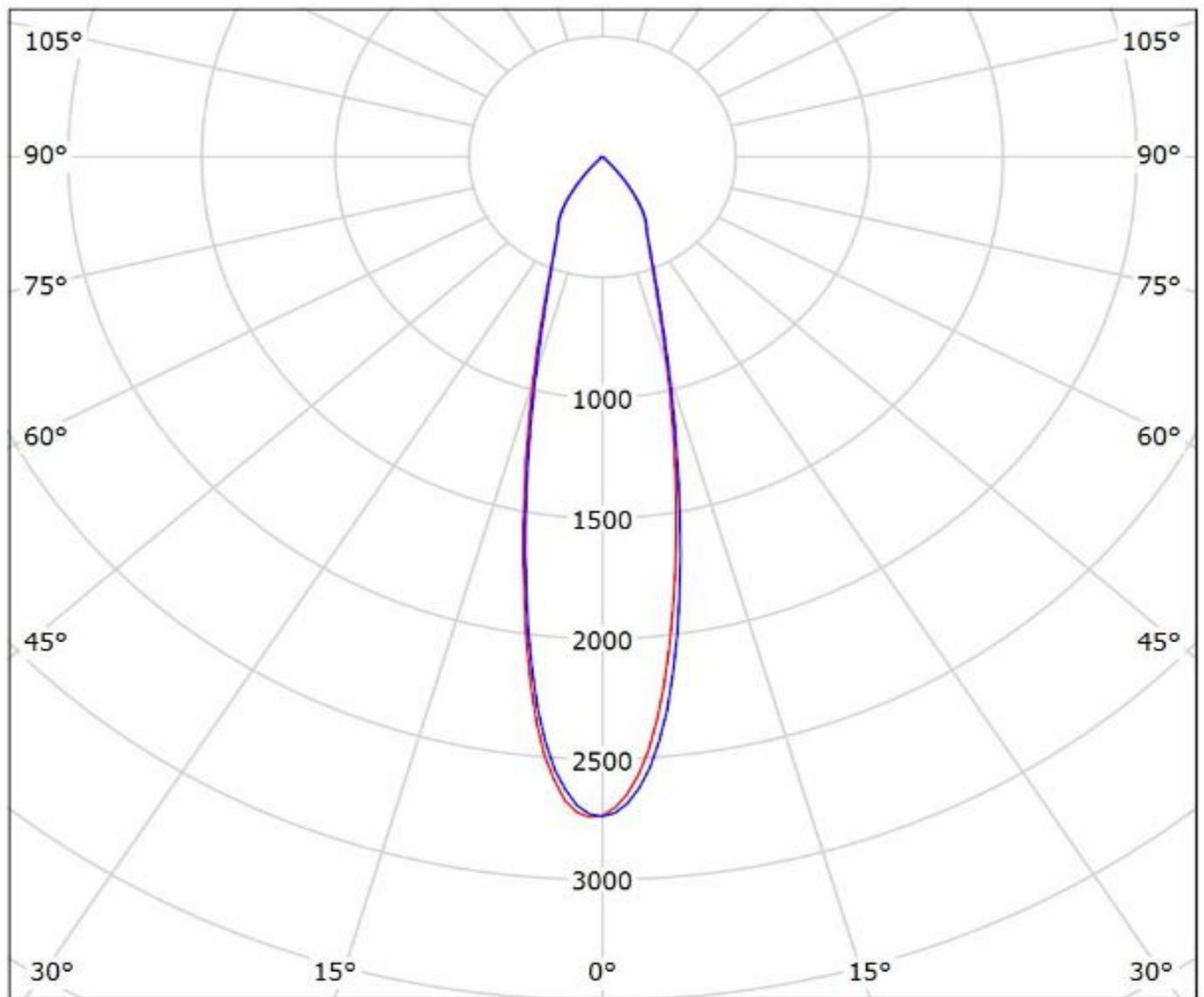
cd/klm

— C0 - C180

— C90 - C270

$\eta = 87\%$

Luminaire: Ledil C12476\_MIRELLA-50-S\_(CLU720)  
Lamps: 1 x CITIZEN\_CLU720\_(CLU720-1206B8-273M2)  
\_1298.17lm@250mA\_CCT=2700K\_P=8.3W\_I=0.25A

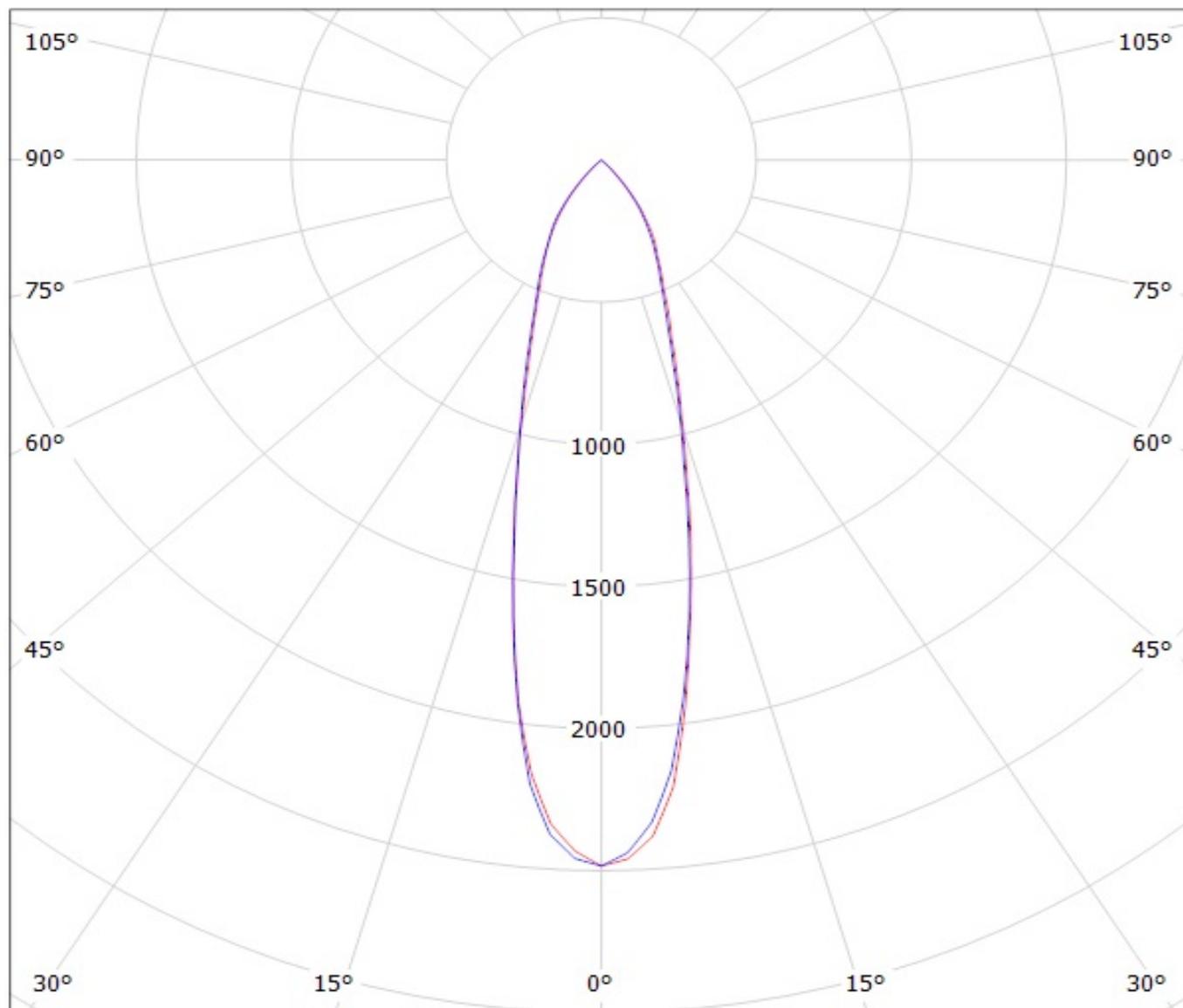


cd/klm

— C0 - C180 — C90 - C270

$\eta = 90\%$

Luminaire: LEDil Oy C12476\_MIRELLA-50-S\_(Soleriq\_S13) Efficiency=87%  
Lamps: 1 x Osram Soleriq S13 (GW KAGHB1.EM) 832lm @ 250mA CCT=3100K P=7.4W I=250mA



cd/klm

— C0 - C180

— C90 - C270

**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.
- Fastening to PCB with appropriate adhesive. By clicking link below you can find Ledil recommended glue options.  
[http://www.ledil.com/datasheets/DataSheet\\_GLUES.pdf](http://www.ledil.com/datasheets/DataSheet_GLUES.pdf)

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.

**NOTE 1: We advise customer to ensure the suitability and sufficiency of the bond in the end product. For example, mechanical stress, vibration and holes on the surface of the circuit board weaken the strength of the glue.**

**NOTE 2: All surfaces where glue is applied must be clean, dry and free from grease and dirt. If cleaning of PCB surfaces is needed, please follow strictly the cleaning instructions of your LED manufacturer -this is important as cleaning shall under no circumstances damage LEDs or other electronics components on the PCB.**

**Further note that optical components shall not be cleaned with any chemicals - only micro fiber cloth may be used to remove fingerprints or other traces from handling.**