Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!


## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832
Email & Skype: info@chipsmall.com Web: www.chipsmall.com
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China

# PRODUCT DATASHEET
# Mirella series
last update 2/11/2016

## DETAILS

| | |
|---|---|
| **Product Number** | CN13906_MIRELLA-50-M-PF-RZL |
| **Family** | Mirella |
| **Type** | RefPack |
| **Color** | metal |
| **Diameter** | 49,9 mm |
| **Height** | 25,6 mm |
| **Style** | round |
| **Optic Material** | PC |
| **Holder Material** | |
| **Fastening** | screw, socket |
| **Status** | production ready |
| **ROHS Comliant** | Yes |
| **Date Updated** | 2/11/2016 |

## OPTICAL PROPERTIES

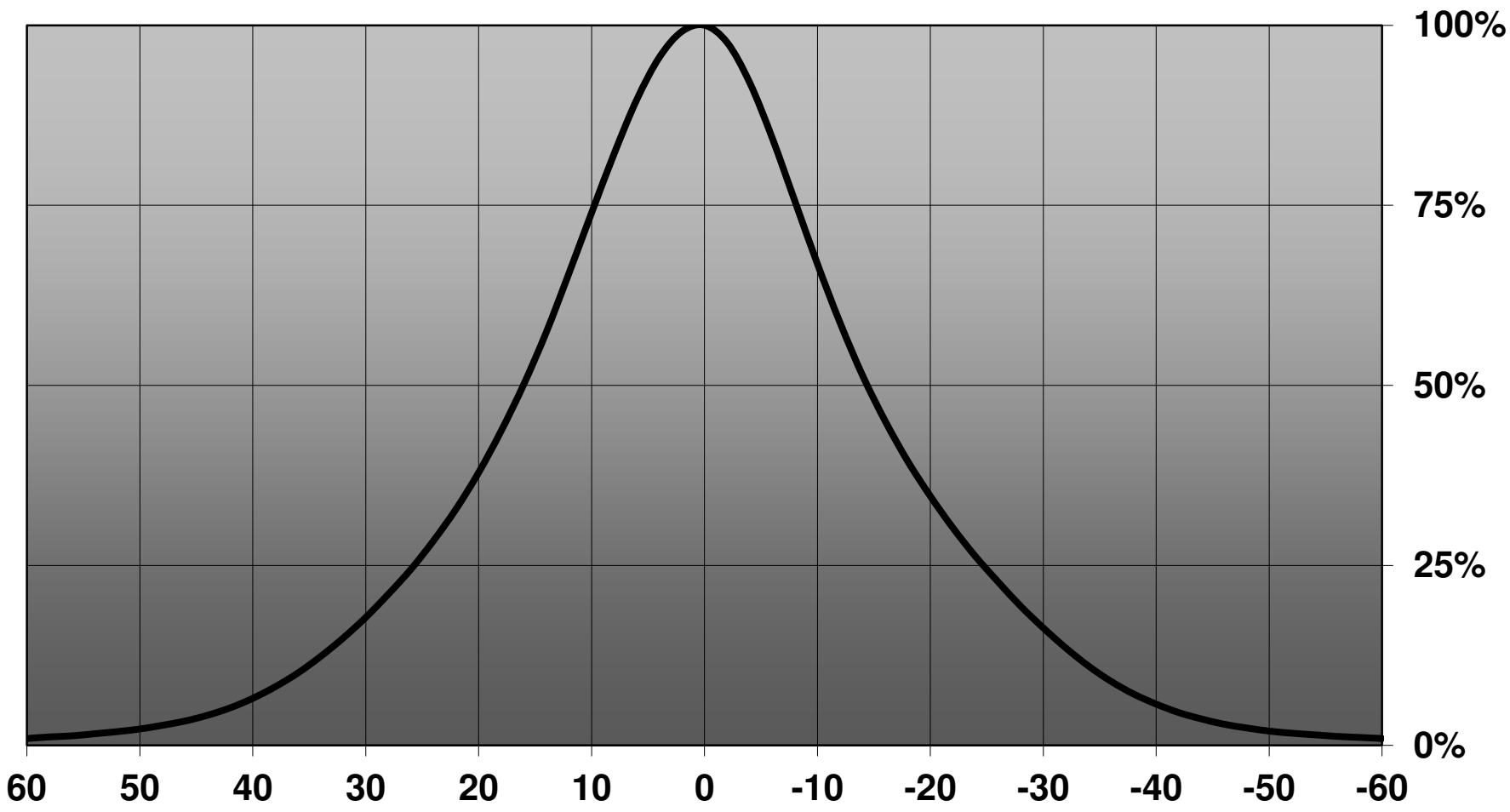
| LED | Viewing Angle | Light Beam | Effi-ciency | cd/lm | Connector |
|---|---|---|---|---|---|
| CLL02x/CLU02x (LES10) | 36 deg | Medium | - | 1.000 | - |
| CLU700/701 | 32 deg | Medium | 81 % | 1.700 | - |
| XM-L RGB | 31 deg | Medium | 79 % | 1.800 | - |
| XHP50 | 31 deg | Medium | 81 % | 1.700 | - |
| XHP70 | 33 deg | Medium | 80 % | 1.600 | - |
| MHD-E/G | 35+53 deg | Medium | 83 % | 1.500 | - |
| XQ-E HI RGBW | 30 deg | Medium | 87 % | 2.000 | - |
| LUXEON Z RGB | 28 deg | Medium | 79 % | 2.100 | - |
| CXM-9 | 38 deg | Medium | 82 % | 1.400 | - |
| Ostar-SMT RGB | 29 deg | Medium | 80 % | 2.000 | - |
| Duris S10 | 33 deg | Medium | 81 % | 1.800 | LEDiL: LEDiL |
| OSTAR Stage (S2WP) | 27 deg | Medium | 83 % | 2.230 | LEDiL: LEDiL |
| Soleriq S9 | sim: 32 | Medium | sim: 86 % | sim: 2.000 | - |



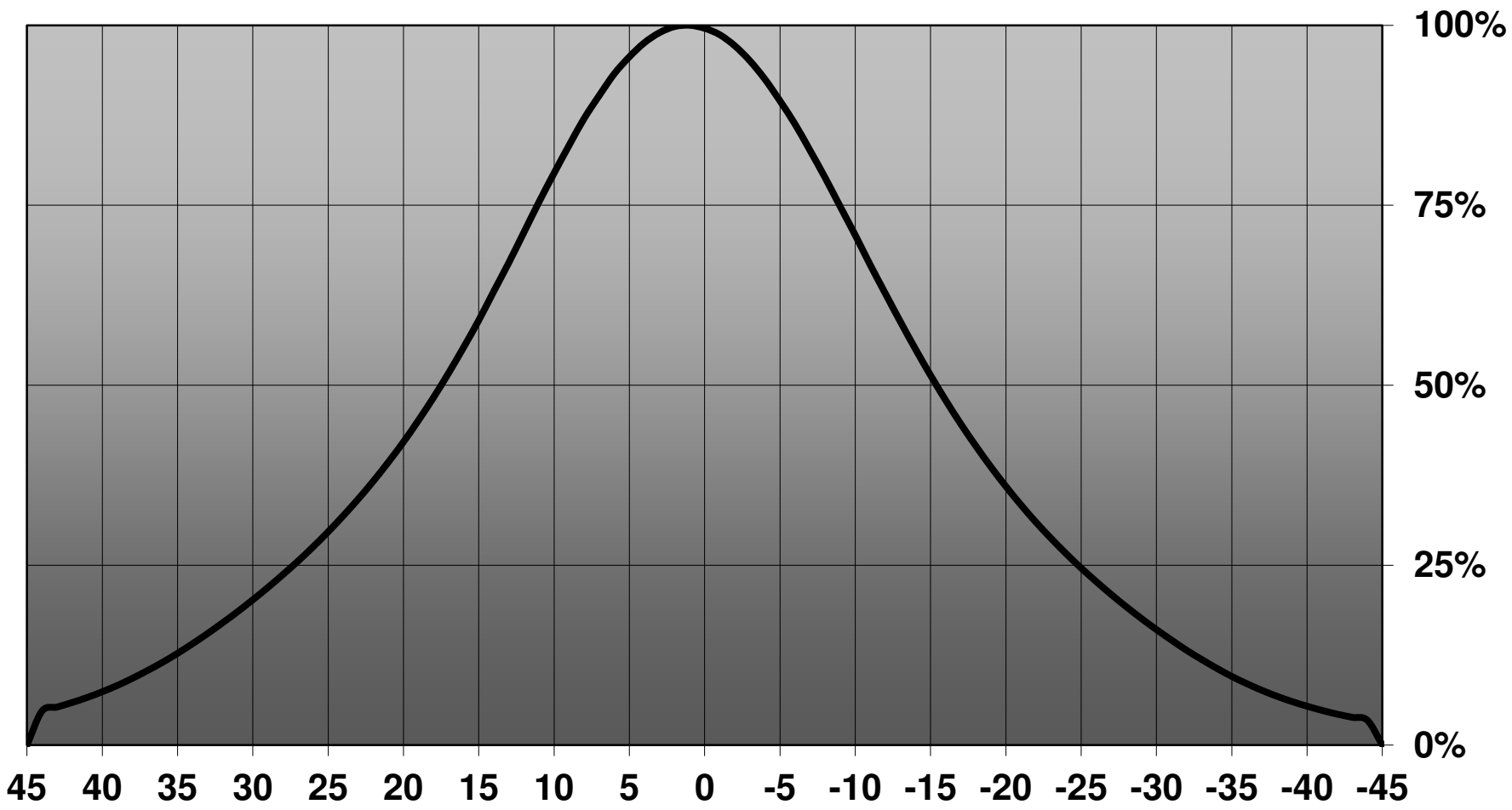
*Ledil Oy*
*Salorankatu 10*
*24240 SALO, Finland*

*http://www.ledil.com*
*email: ledil@ledil.com*
*FAX: +358-2-733 8001*

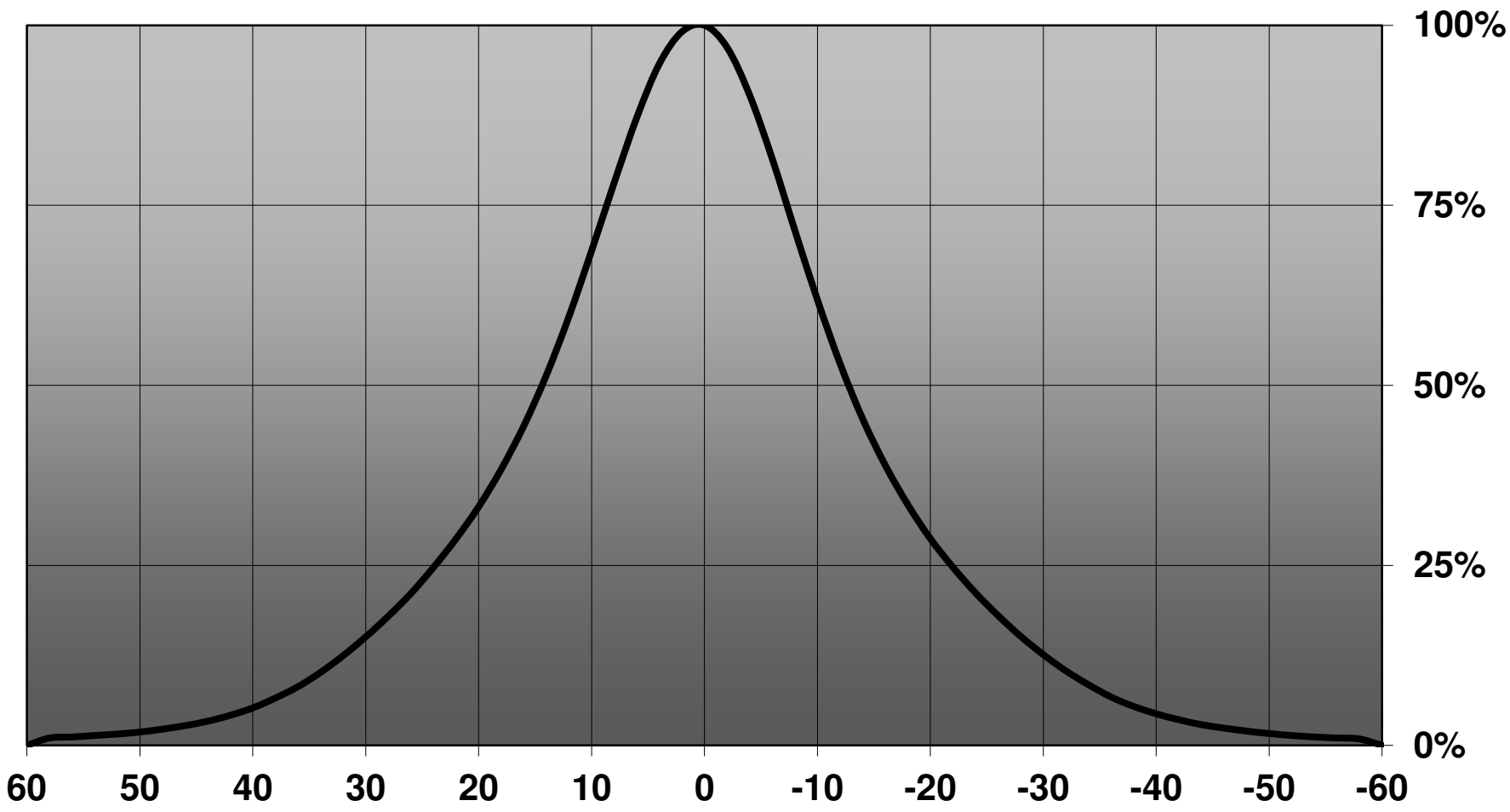
**Relative intensity of CN13906_MIRELLA-50-M-PF-RZL_(XQ-E_HI_RGBW)**



## Relative intensity of CN13906_MIRELLA-50-M-PF-RZL_(Duris_S10)

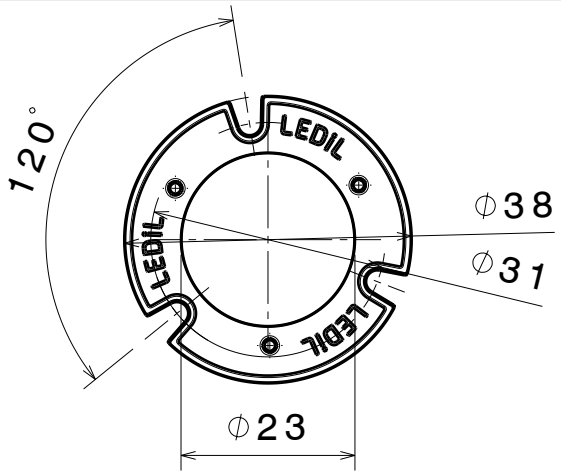


**Relative intensity of CN13906_MIRELLA-50-M-PF-RZL_(Osram_Stage_S2WP)**

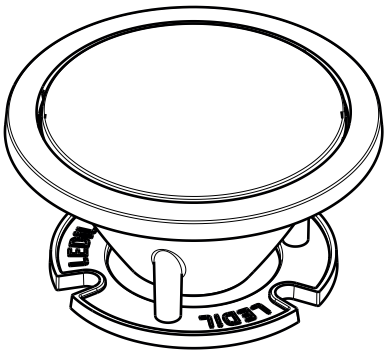


NOTE: It is recommended to use glue like DELO-PUR 9895 for pin fastening.

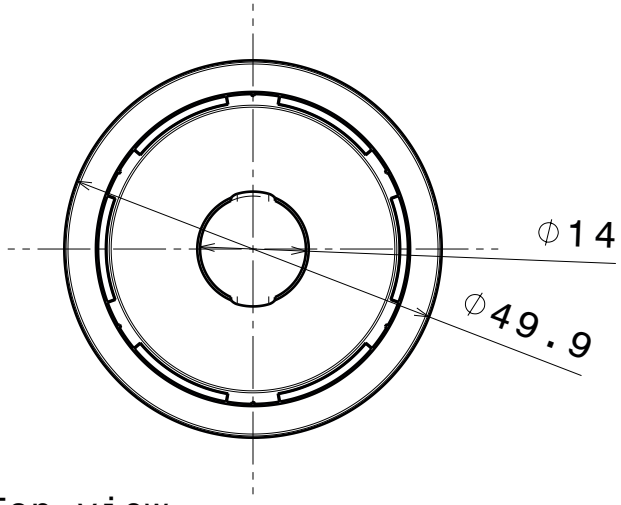
http://www.delo.de/fileadmin/datasheet/DELO-PUR_9895_(TIDB-GB).pdf



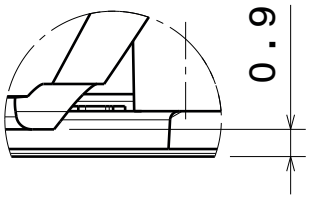

Front view



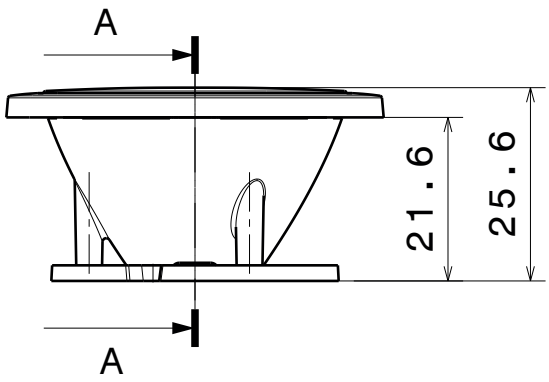

Isometric view



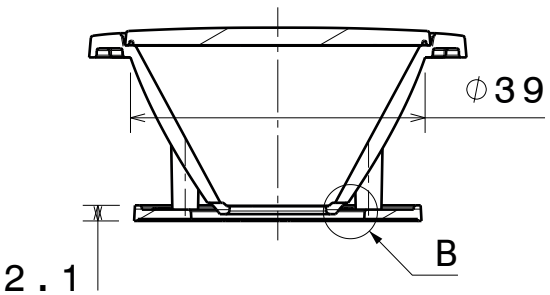

Top view




Detail B



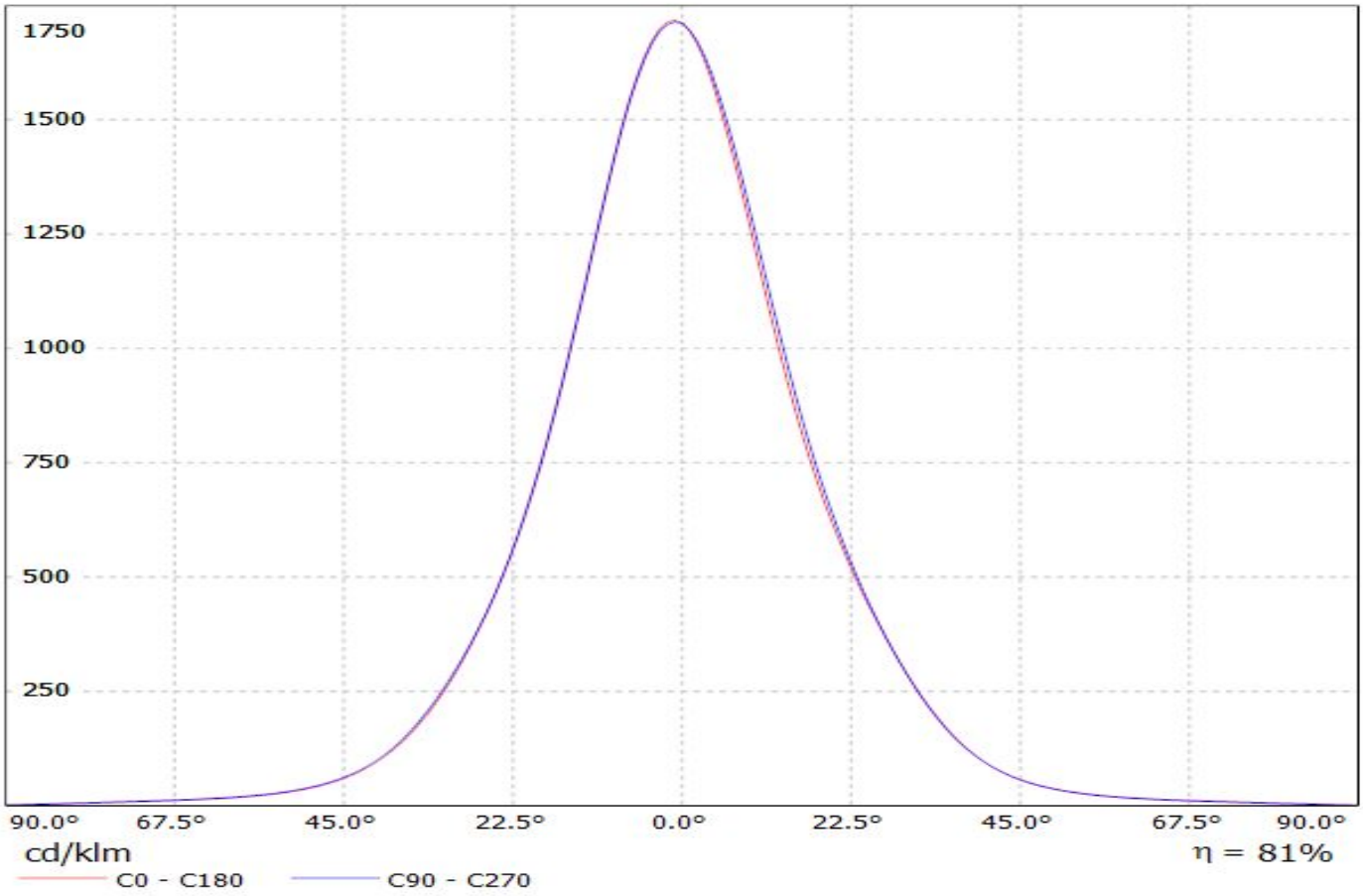

Front view



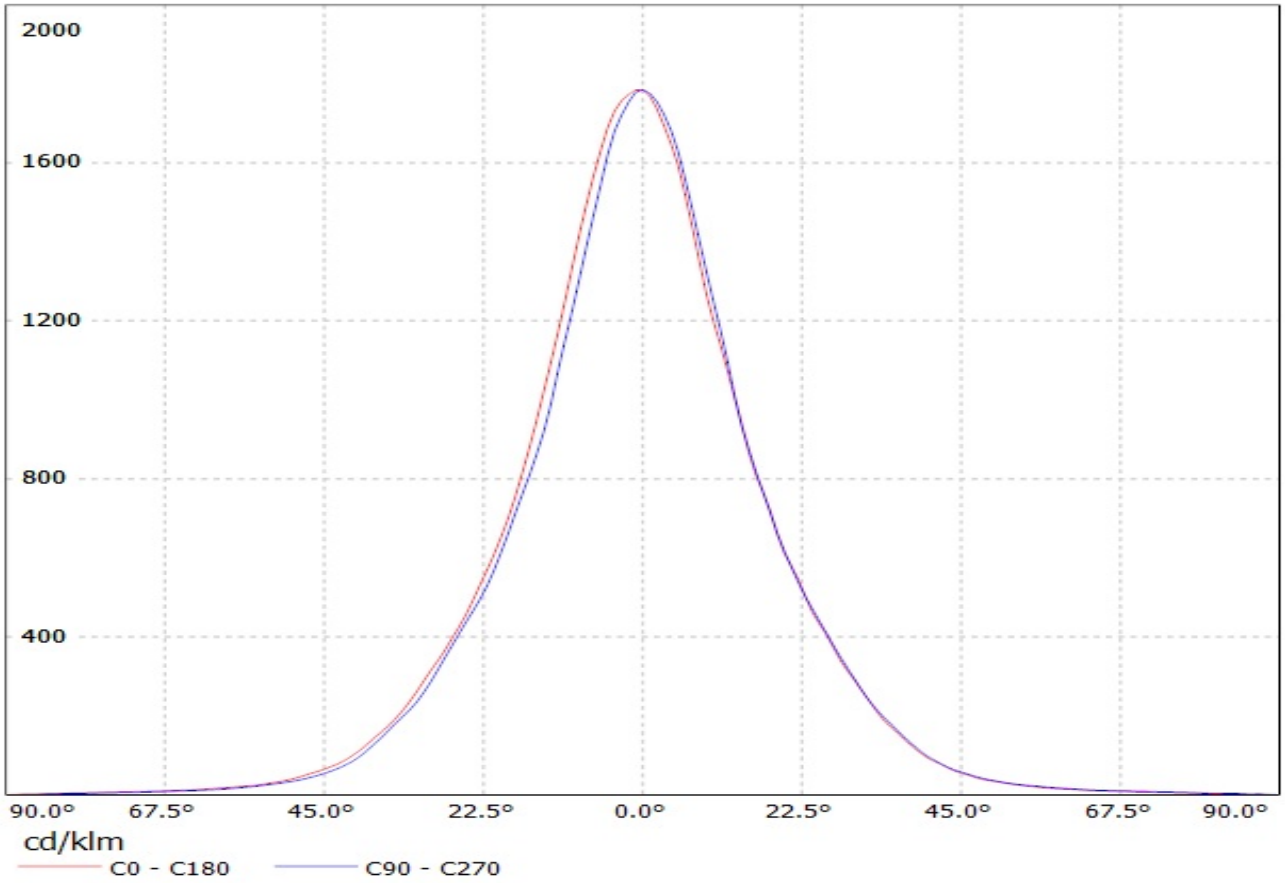

Section view A-A

| | | |
|---|---|---|
| Tolerances if not otherwise shown<br>According to DIN ISO 2768-1<br>Linear measures:<br>Up to 30mm class M, otherwise class C.<br>According to DIN ISO 2768-2<br>Form and position: class L | Ledil Oy<br>Salorankatu 10<br>FIN 24240 SALO<br>Finland | |
| THIRD ANGLE PROJECTION: | DRAWING TITLE<br>MIRELLA-PF-RZL Datasheet | |
|  | SIZE A4 / PART NUMBER - | |
| | SCALE 1:1 / WEIGHT - | SHEET 1/1 |

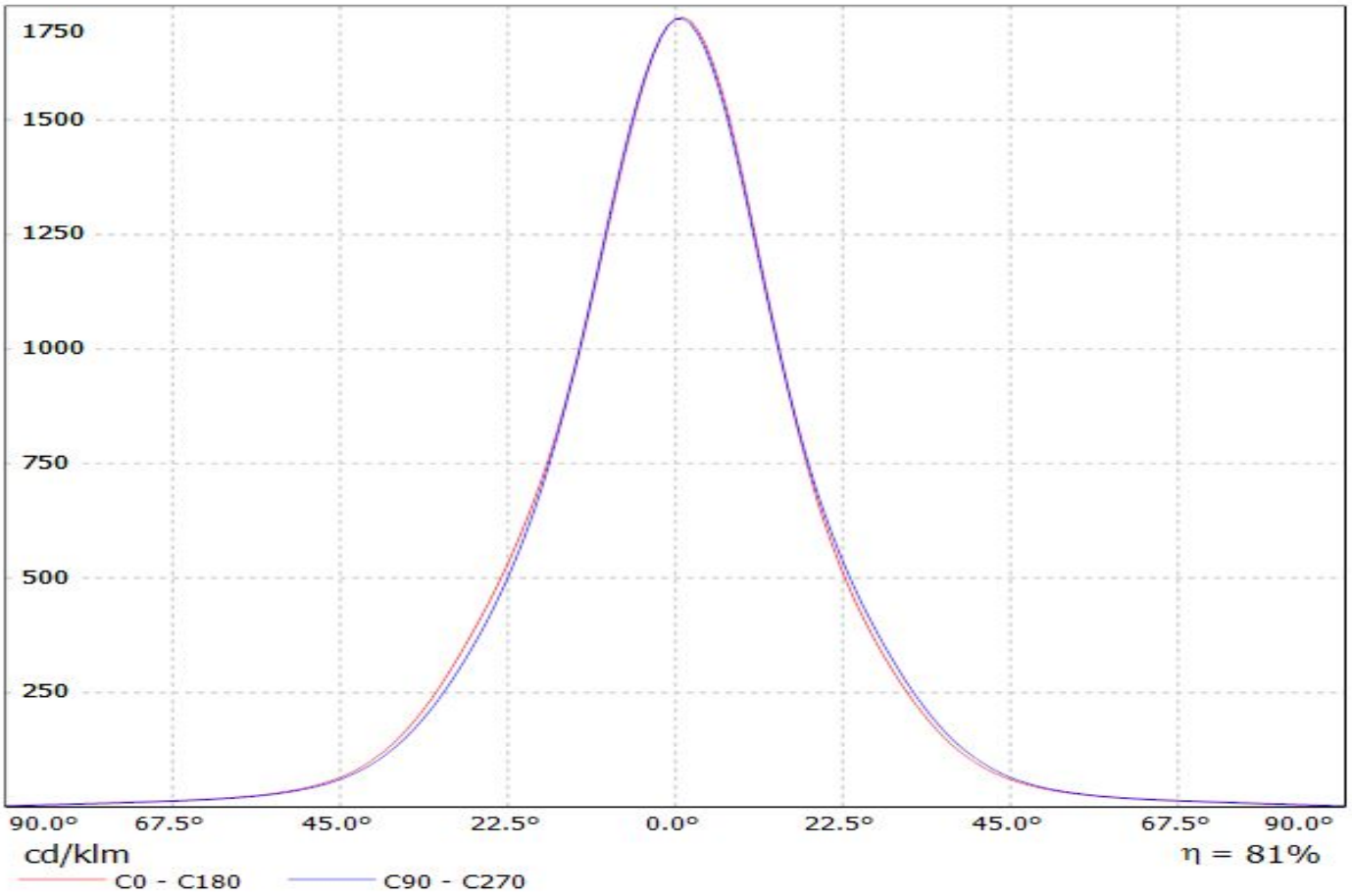
Luminaire: LEDiL Oy CN13906_MIRELLA-50-M-PF-RZL_(CLU700)
Lamps: 1 x Citizen_CLU700_(C13083_PF-SOCKET)_384.09lm@100mA_P=2.90608W_I=0.1044A



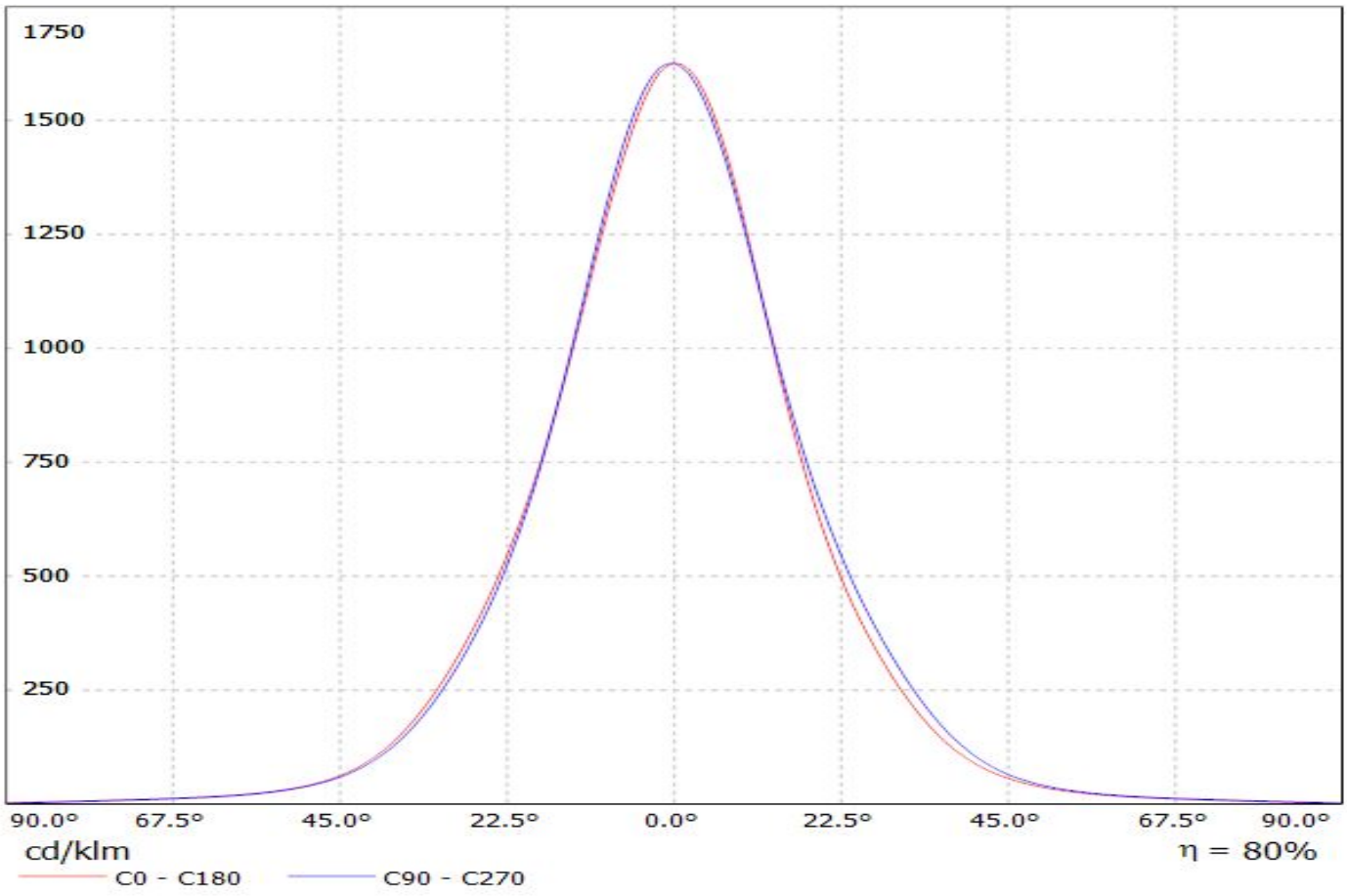
Luminaire: Ledil Oy CN13906_MIRELLA-50-M-PF-RZL_(XM-L_RGB) Efficiency=79%
Lamps: 1 x Cree XM-L RGB (206lm @ 250mA) CCT= P=2.8W I=250mA



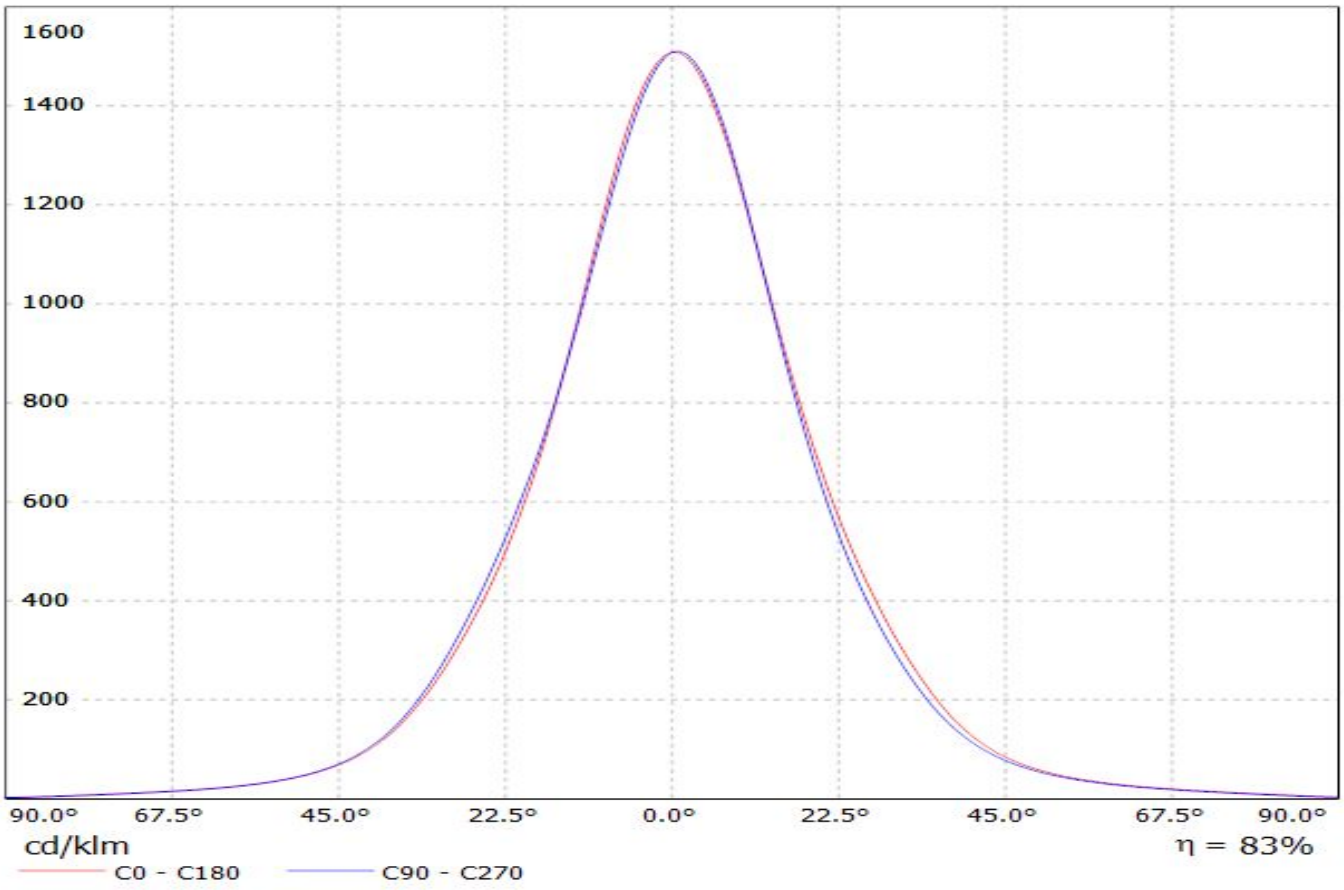
Luminaire: LEDiL Oy CN13906_MIRELLA-50-M-PF-RZL_(CREE_XHP50_WARM_WHITE)
Lamps: 1 x CREE_XHP50_WARM_WHITE_195.088lm@250mA_P=1.40004W_I=0.2499A



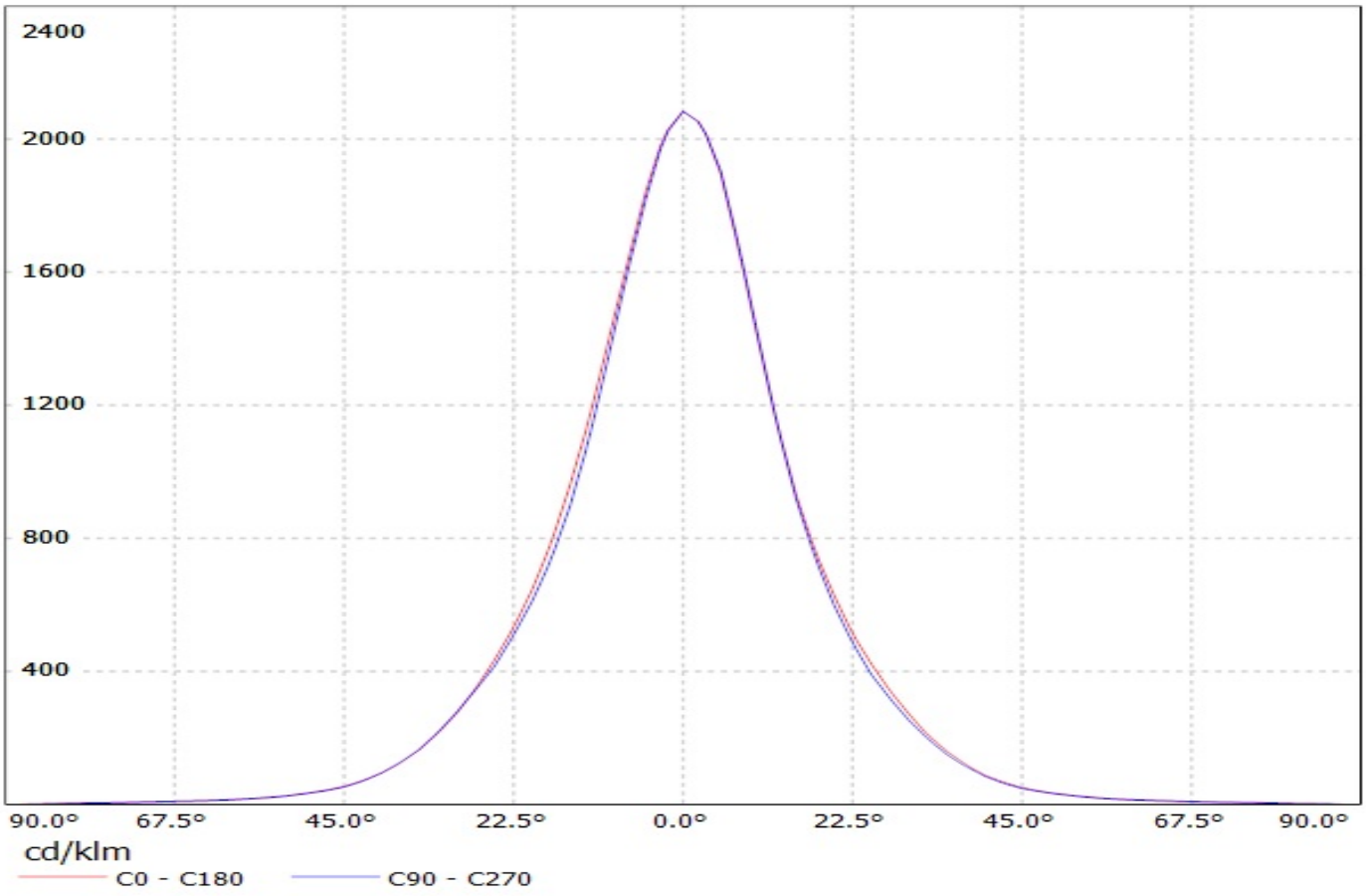
Luminaire: LEDiL Oy CN13906_MIRELLA-50-M-PF-RZL_(CREE_XHP70)
Lamps: 1 x CREE_XHP70_260.212lm@250mA_P=1.383W_I=0.2499A



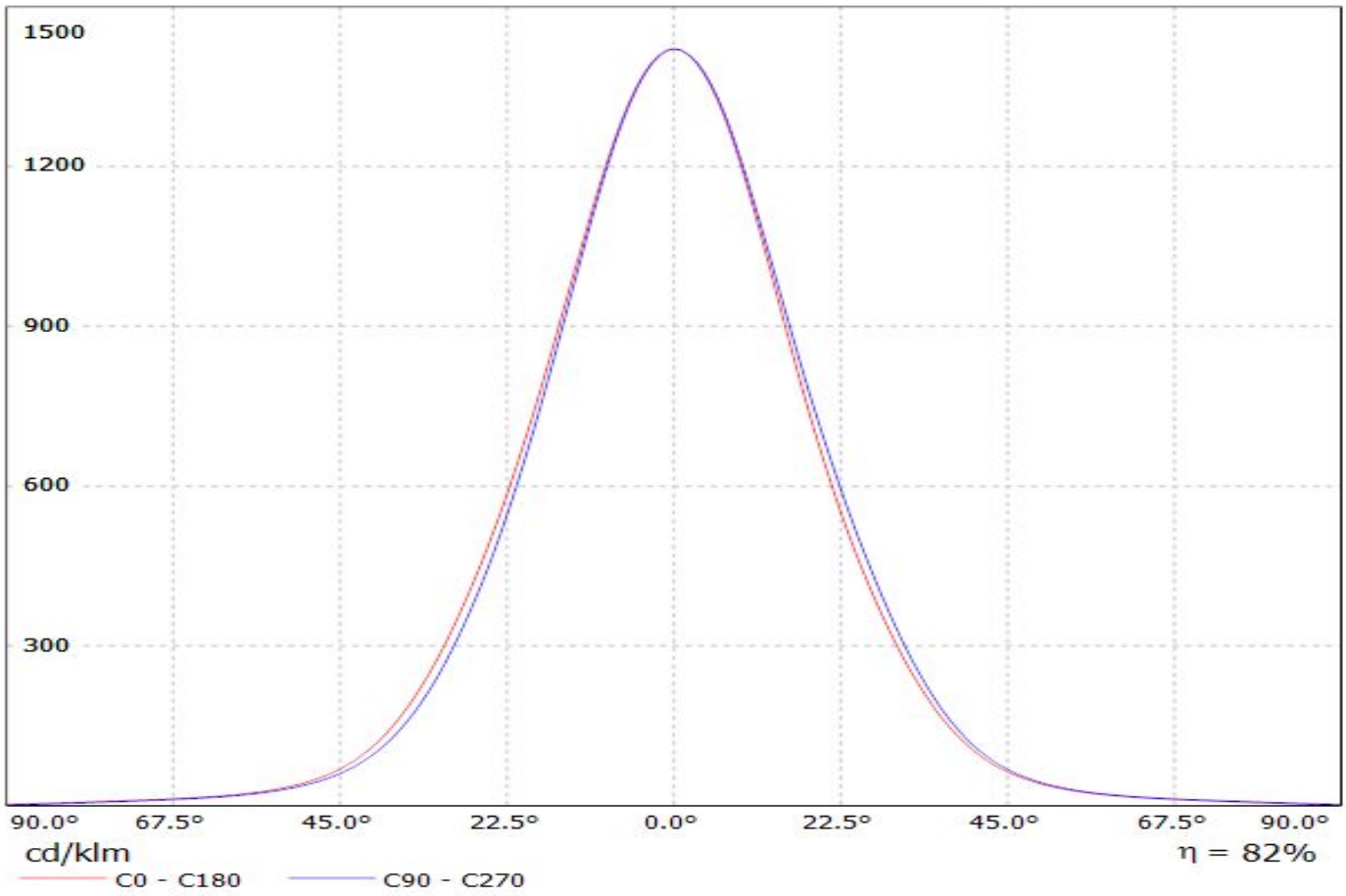
Luminaire: Ledil CN13906_MIRELLA-50-M-PF-RZL_(MHD-G)
Lamps: 1 x Cree MHD-G_530.44lm@100mA_P=3.0W_I=0.100A



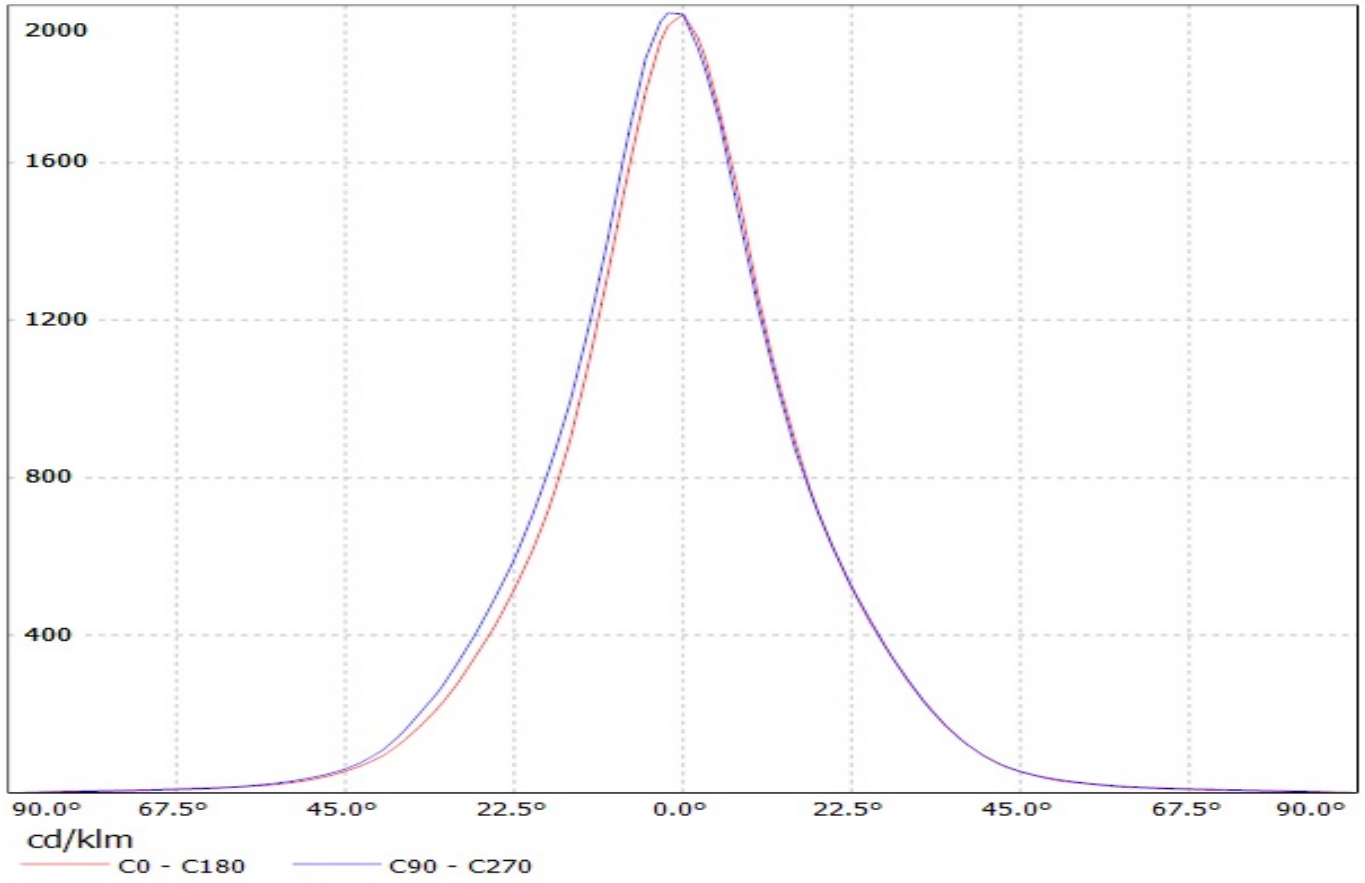
Luminaire: LEDil Oy CN13906_MIRELLA-50-M-PF-RZL_(Luxeon_Z_RGB) Efficiency=78%
Lamps: 1 x Philips Lumileds Luxeon RGB (164lm @ 250mA) P=2.6W I=250mA



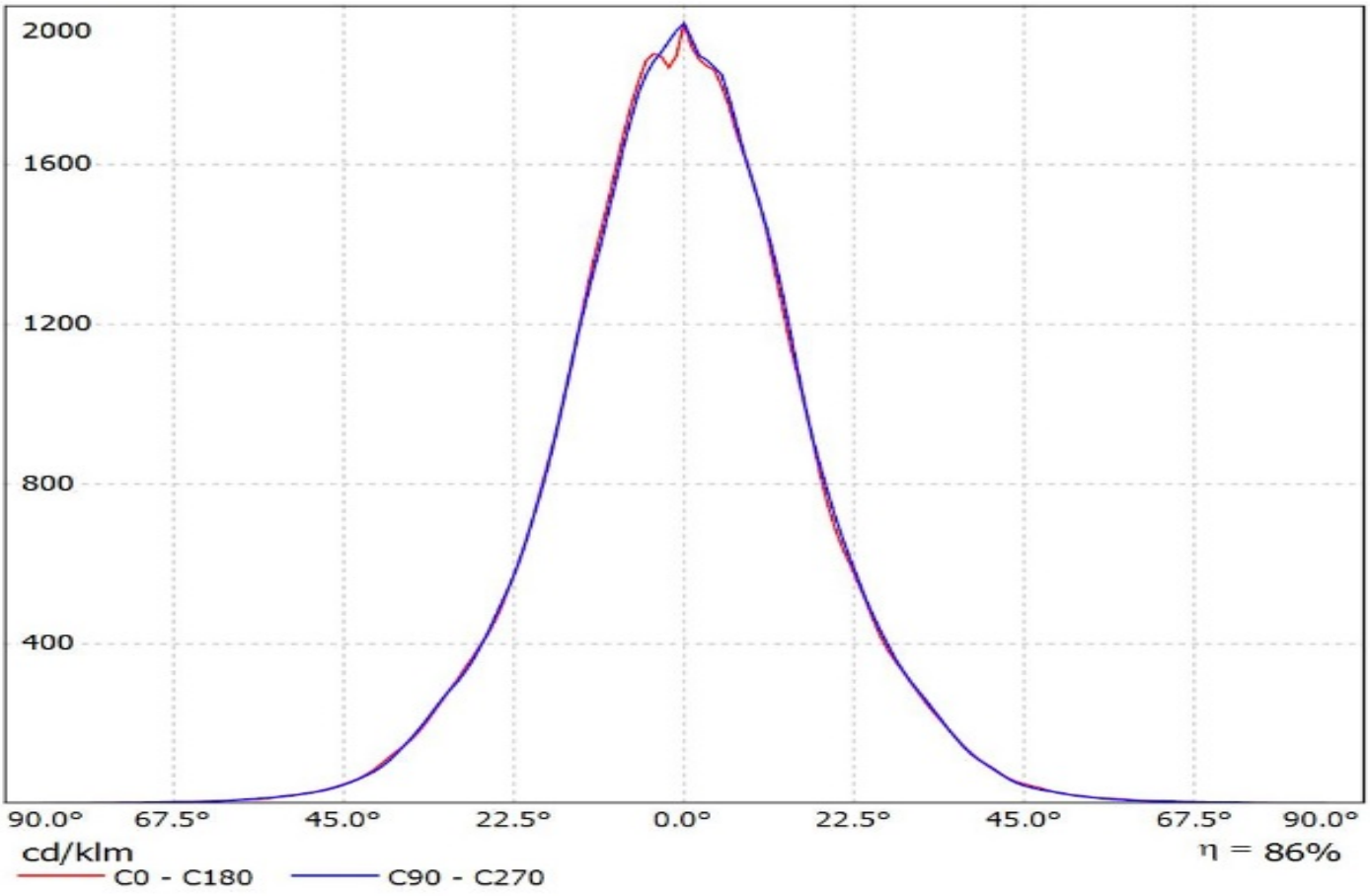
Luminaire: LEDiL Oy CN13906_MIRELLA-50-M-PF-RZL_(CXM-9)
Lamps: 1 x Luminus_XNOVA_CXM-9_962.046lm@240mA_P=8.29334W_I=240mA



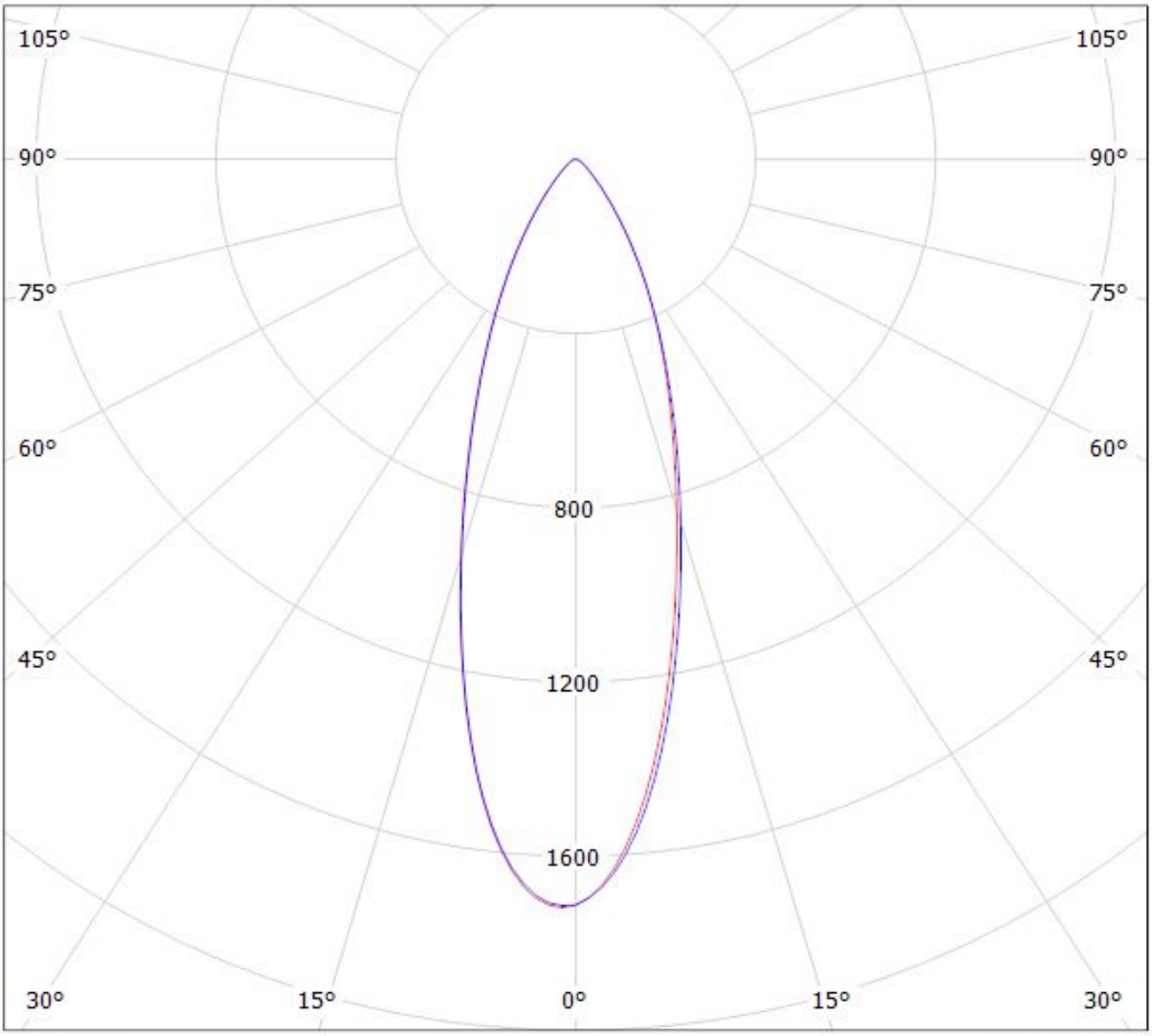
Luminaire: Ledil Oy CN13906_MIRELLA-50-M-PF-RZL_(Ostar-SMT_RGB) Efficiency=80%
Lamps: 1 x Osram Ostar_SMT RGB 164lm @ 250mA CCT= P=3.0W I=250mA



Luminaire: Ledil Oy CN13906_MIRELLA-50-M-PF-RZL_(Soleriq_S9)_SIMULATED
Lamps: 1 x Osram Soleriq S9 (GW KAFJB3.EM)



Luminaire: LEDiL Oy CN13906_MIRELLA-50-M-PF-RZL_(CLU700)
Lamps: 1 x Citizen_CLU700_(C13083_PF-SOCKET)_384.09lm@100mA_P=2.90608W_I=0.1044A

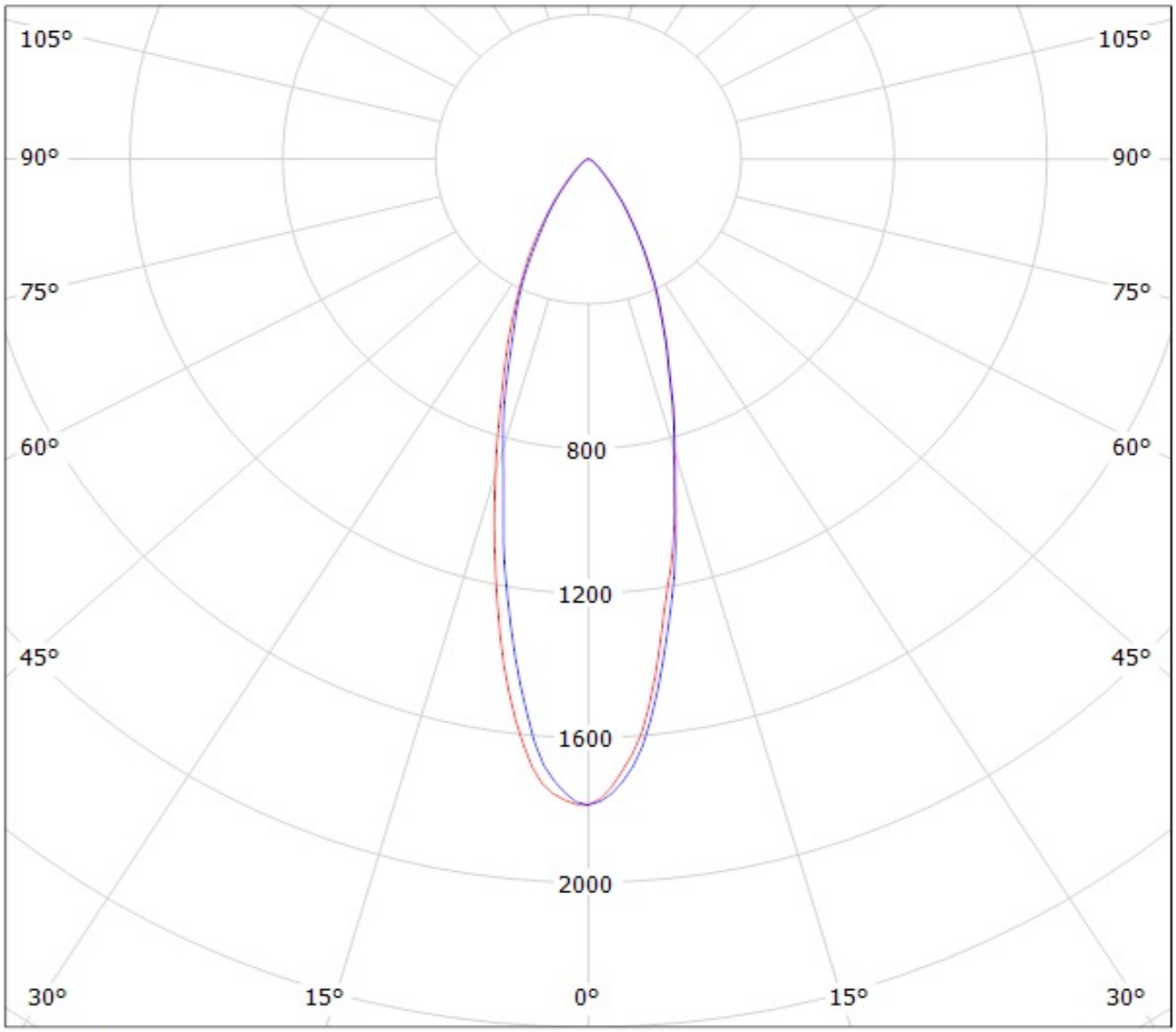



cd/klm

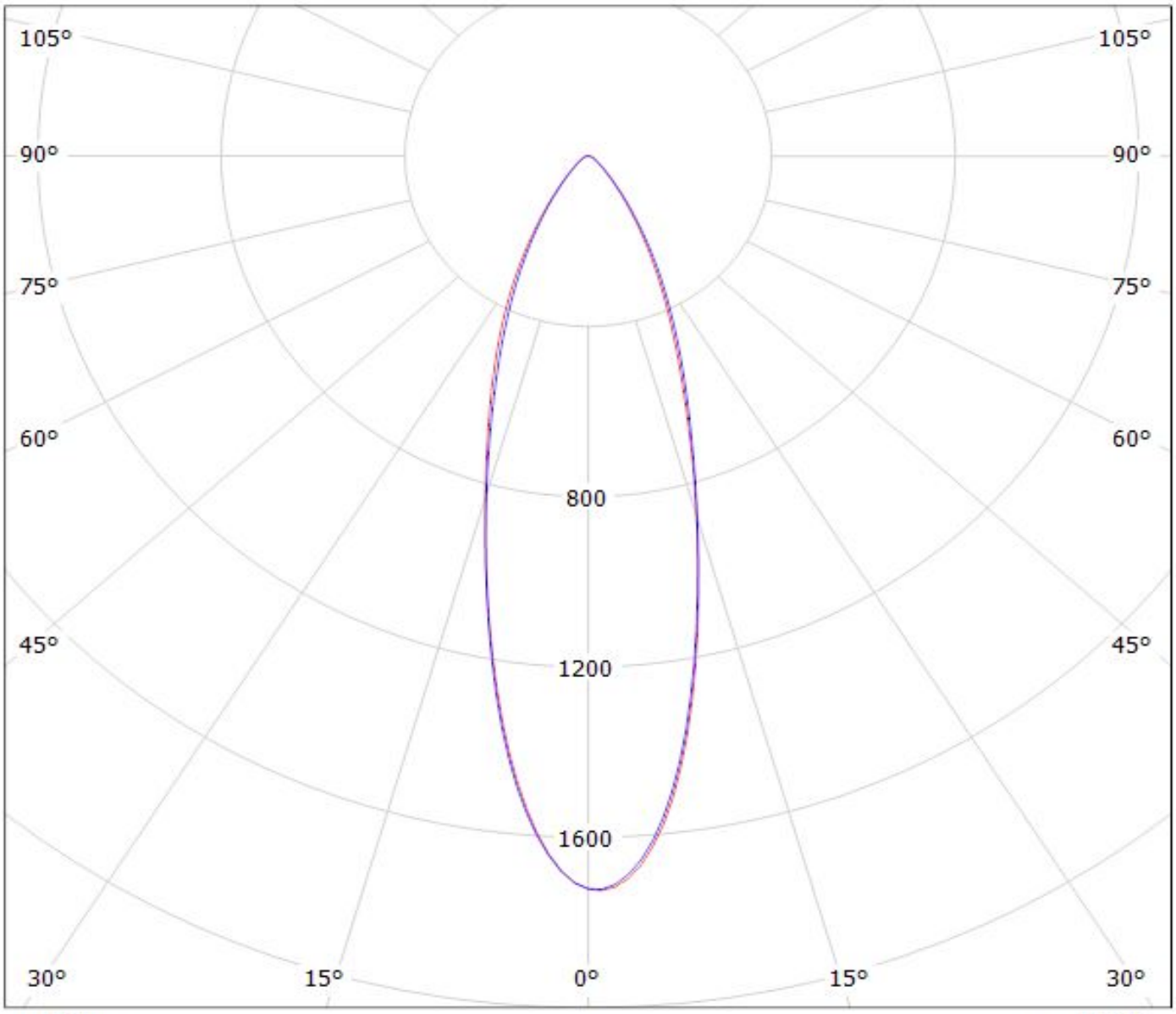
η = 81%

C0 - C180 C90 - C270

Luminaire: Ledil Oy CN13906_MIRELLA-50-M-PF-RZL_(XM-L_RGB) Efficiency=79%
Lamps: 1 x Cree XM-L RGB (206lm @ 250mA) CCT= P=2.8W I=250mA



Luminaire: LEDiL Oy CN13906_MIRELLA-50-M-PF-RZL_(CREE_XHP50_WARM_WHITE)
Lamps: 1 x CREE_XHP50_WARM_WHITE_195.088lm@250mA_P=1.40004W_I=0.2499A

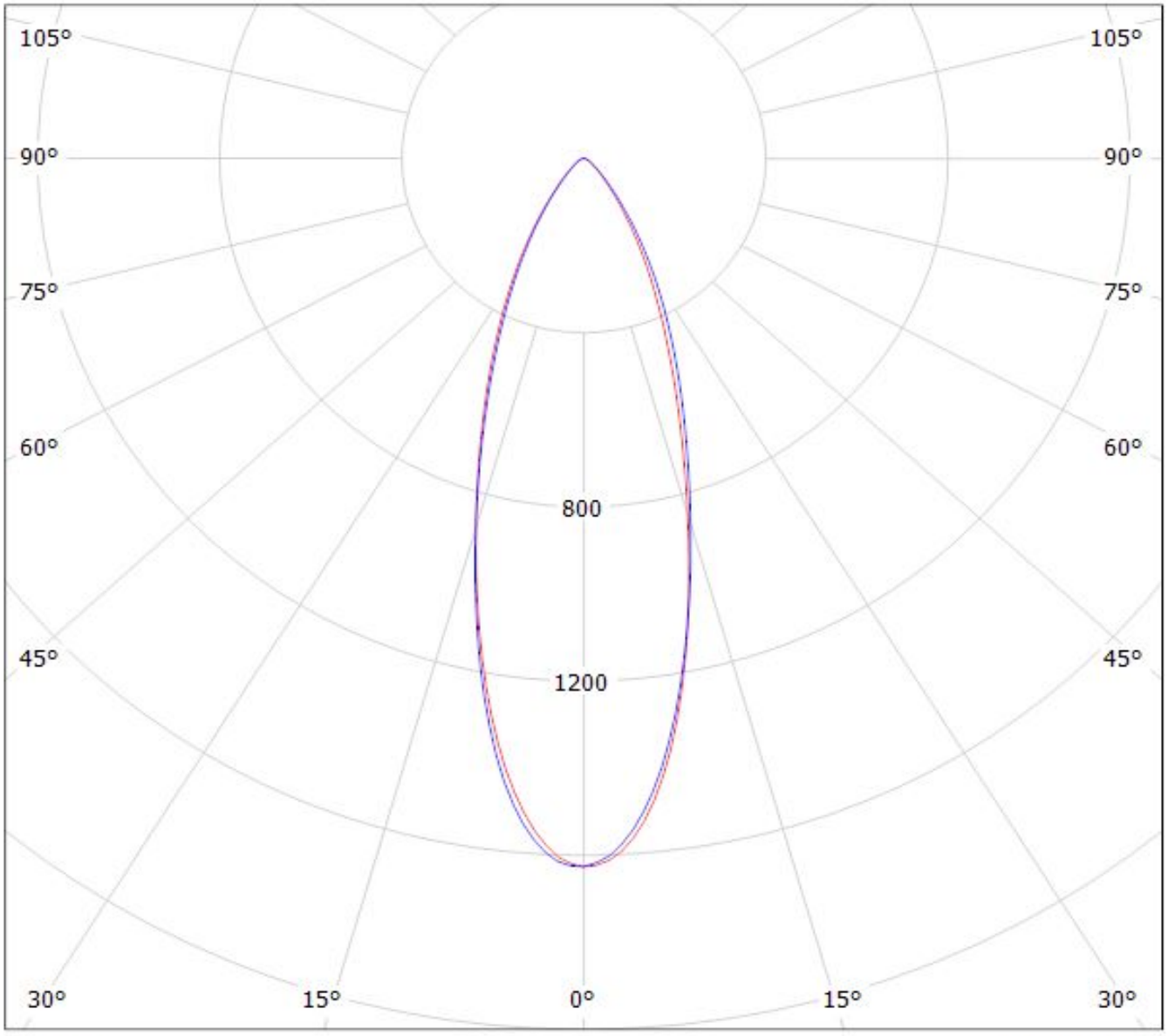



cd/klm

η = 81%

C0 - C180 C90 - C270

Luminaire: LEDiL Oy CN13906_MIRELLA-50-M-PF-RZL_(CREE_XHP70)
Lamps: 1 x CREE_XHP70_260.212lm@250mA_P=1.383W_I=0.2499A

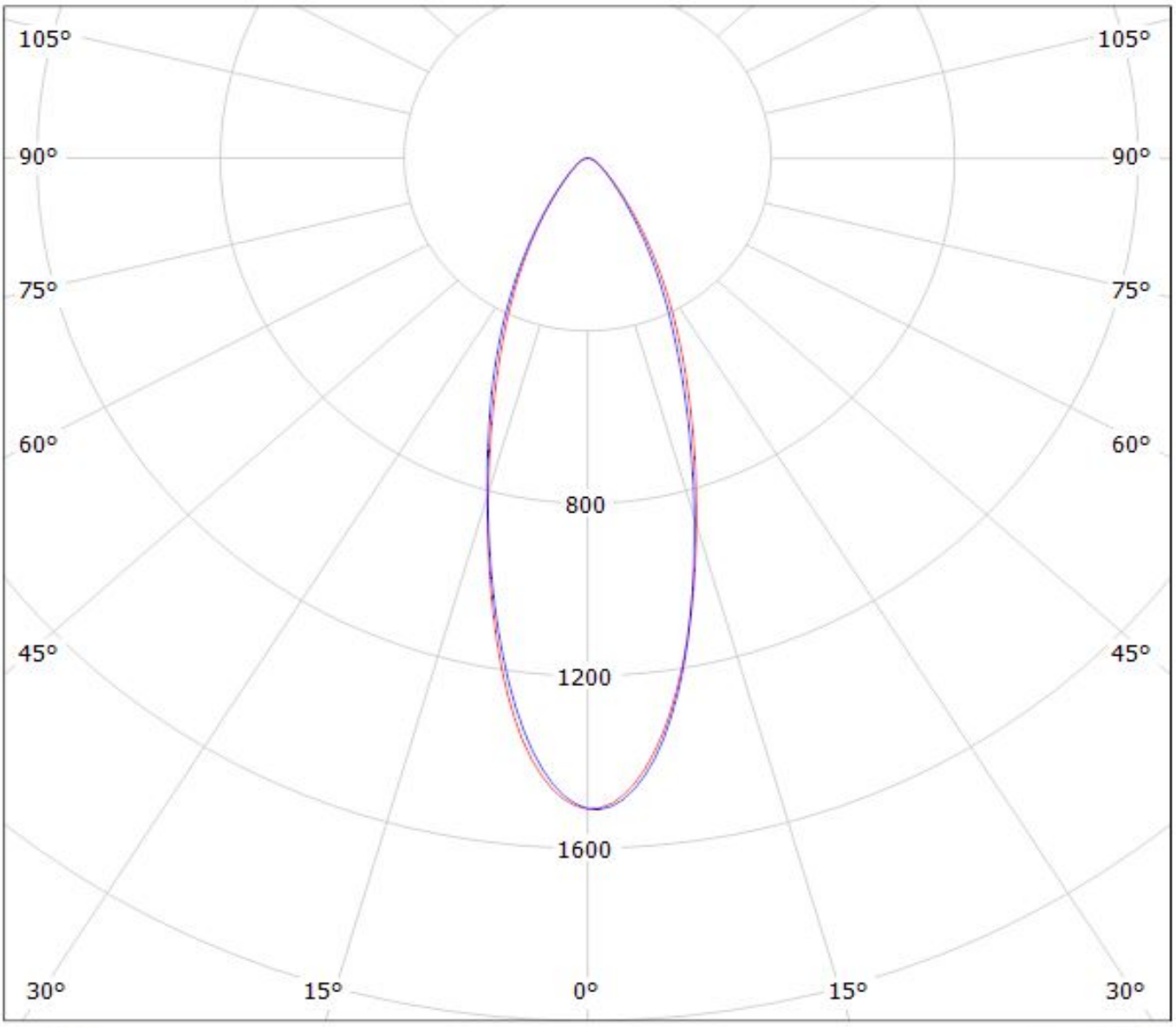



cd/klm

η = 80%

C0 - C180 C90 - C270

Luminaire: Ledil CN13906_MIRELLA-50-M-PF-RZL_(MHD-G)
Lamps: 1 x Cree MHD-G_530.44lm@100mA_P=3.0W_I=0.100A

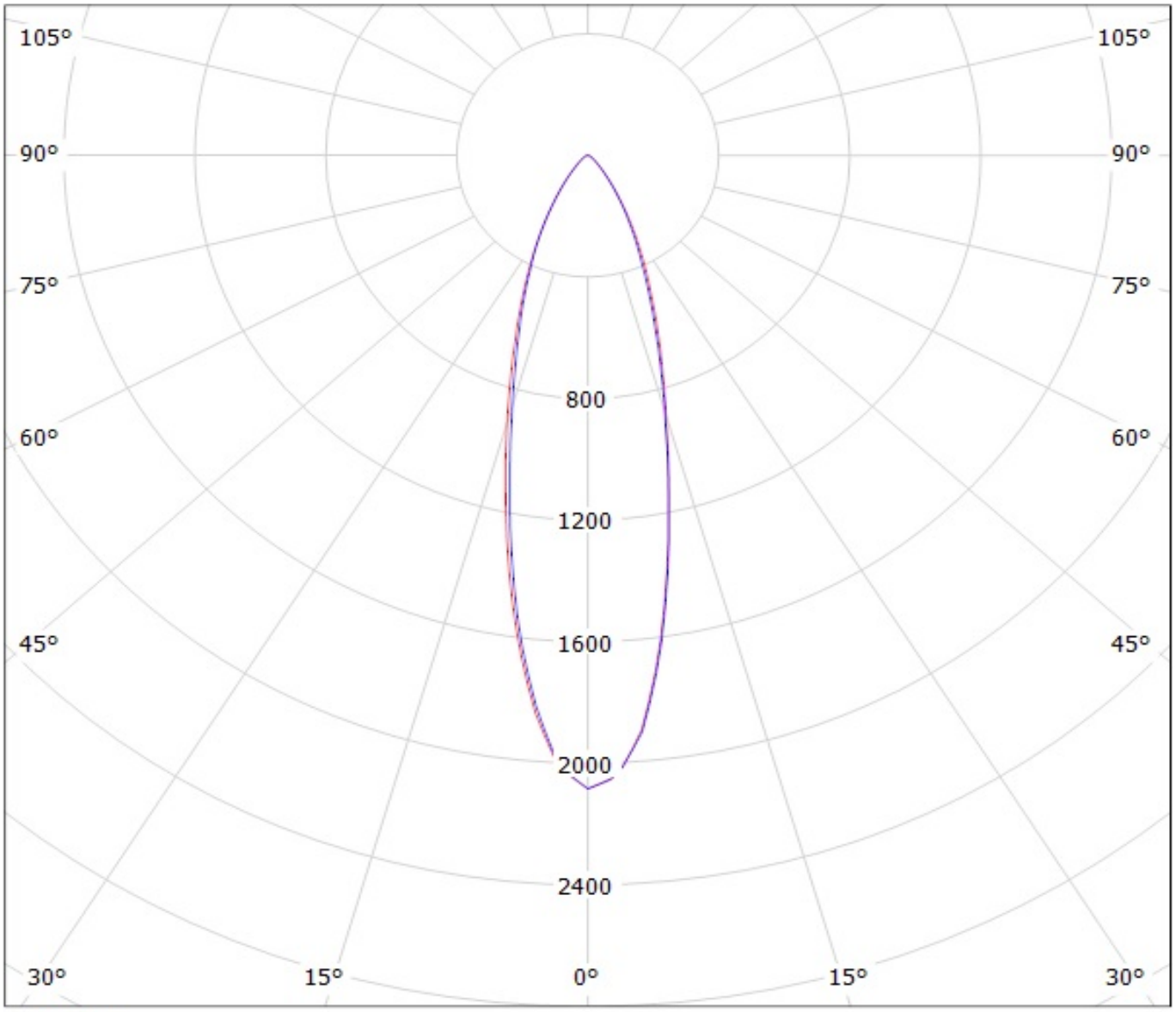



cd/klm

η = 83%

C0 - C180 C90 - C270

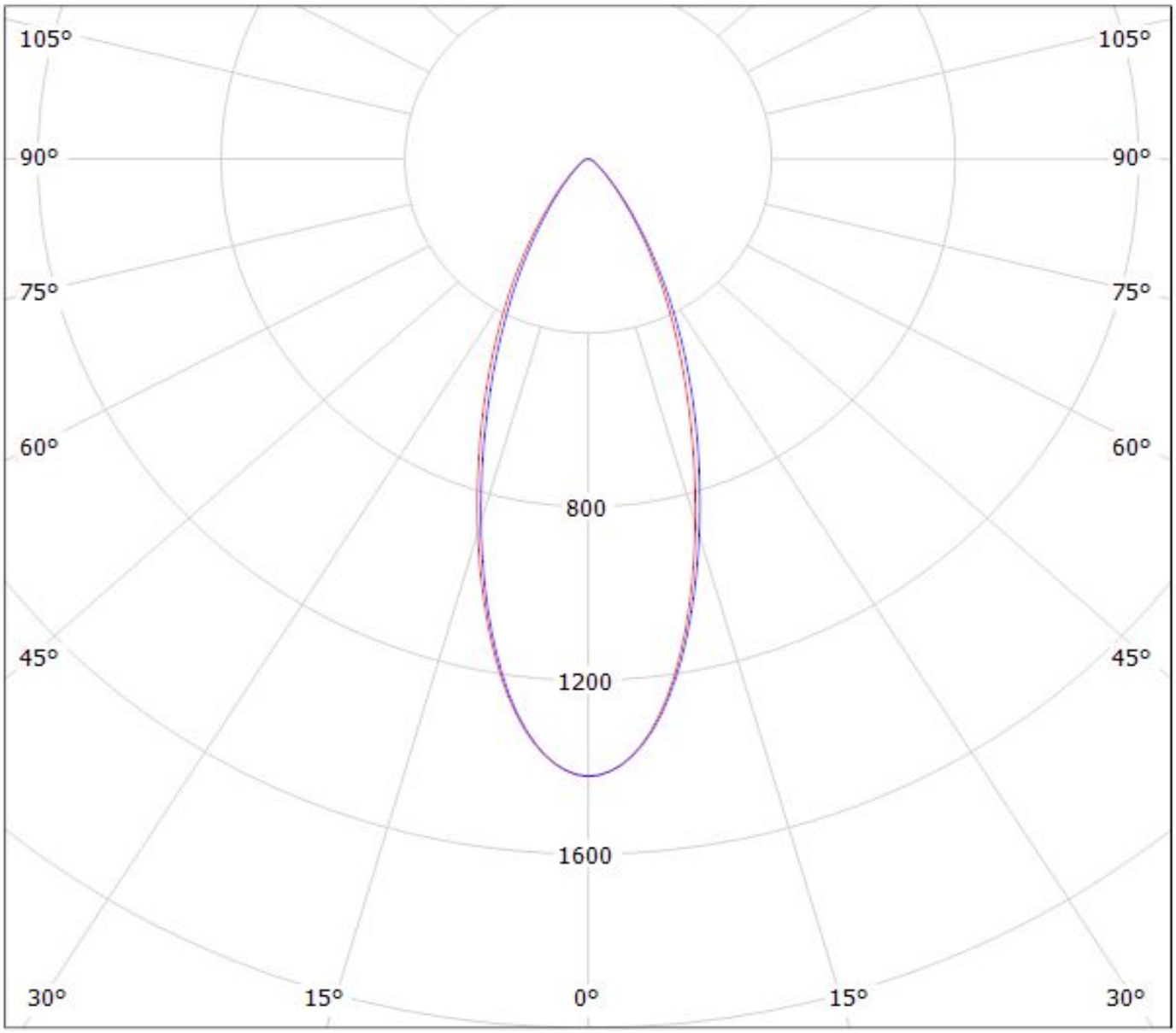
Luminaire: LEDil Oy CN13906_MIRELLA-50-M-PF-RZL_(Luxeon_Z_RGB) Efficiency=78%
Lamps: 1 x Philips Lumileds Luxeon RGB (164lm @ 250mA) P=2.6W I=250mA




cd/klm

C0 - C180 C90 - C270

Luminaire: LEDiL Oy CN13906_MIRELLA-50-M-PF-RZL_(CXM-9)
Lamps: 1 x Luminus_XNOVA_CXM-9_962.046lm@240mA_P=8.29334W_I=240mA

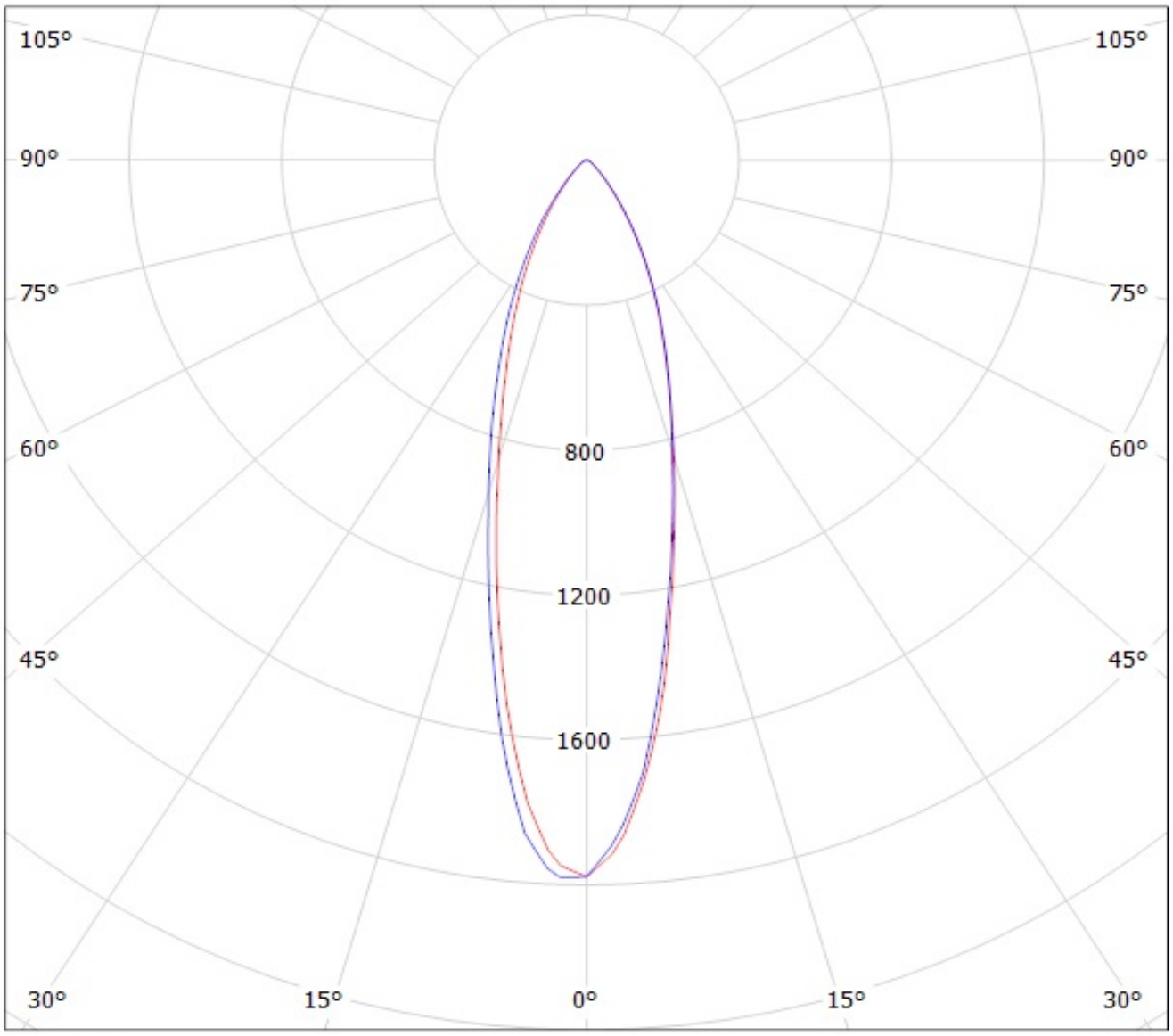



cd/klm

η = 82%

C0 - C180 C90 - C270

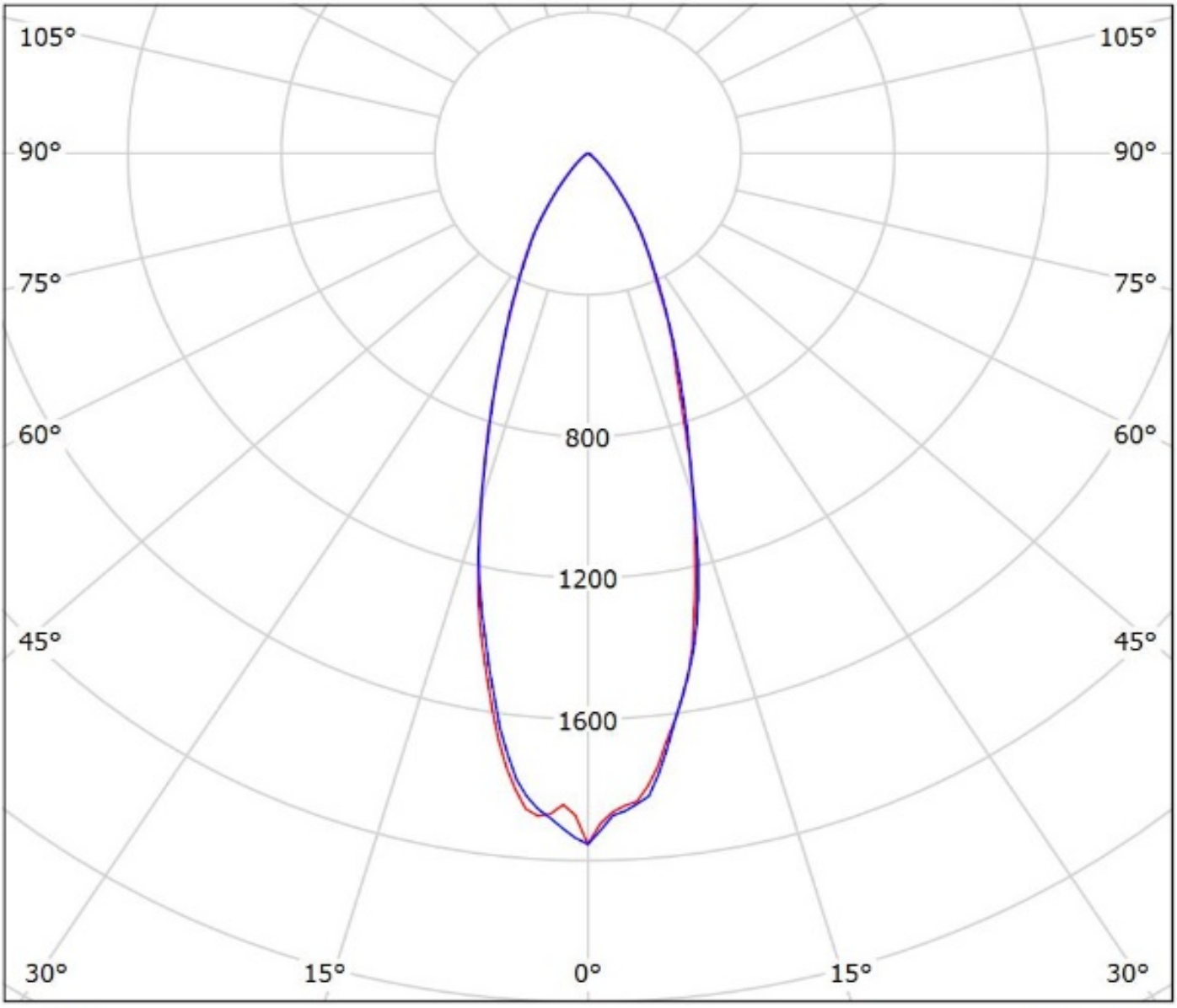
Luminaire: Ledil Oy CN13906_MIRELLA-50-M-PF-RZL_(Ostar-SMT_RGB) Efficiency=80%
Lamps: 1 x Osram Ostar_SMT RGB 164lm @ 250mA CCT= P=3.0W I=250mA




cd/klm

C0 - C180 C90 - C270

Luminaire: Ledil Oy CN13906_MIRELLA-50-M-PF-RZL_(Soleriq_S9)_SIMULATED
Lamps: 1 x Osram Soleriq S9 (GW KAFJB3.EM)



**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.