**Ordering number C11552_BARBARA-S**

| | | | |
|-----------------|-----------|-------------|------------|
| Family | Barbara | FWHM | 17 degrees |
| Type | Reflector | Efficiency | 90 % |
| LED | CXA2011 | cd/lm | 4.540 |
| Color | Metal | Gerber File | Available |
| Diameter | 70 mm | | |
| Height | 44.7 mm | | |
| Style | Round | | |
| Optic Material | PC | | |
| Holder Material | - | | |
| Fastening | Glue | | |
| Status | Ready | | |

Not compatible if PCB board fastened with screws. Compatible

Ordering number C11553_BARBARA-W

| | | | |
|-----------------|-----------|-------------|------------|
| Family | Barbara | FWHM | 40 degrees |
| Type | Reflector | Efficiency | 90 % |
| LED | CXA2011 | cd/lm | 1.560 |
| Color | Metal | Gerber File | Available |
| Diameter | 70 mm | | |
| Height | 44.7 mm | | |
| Style | Round | | |
| Optic Material | PC | | |
| Holder Material | - | | |
| Fastening | Glue | | |
| Status | Ready | | |

Not compatible if PCB board fastened with screws. Compatible

Ordering number C12461_BARBARA-WW

| | | | |
|-----------------|-----------|-------------|------------|
| Family | Barbara | FWHM | 60 degrees |
| Type | Reflector | Efficiency | 90 % |
| LED | CXA2011 | cd/lm | 1.000 |
| Color | Metal | Gerber File | Available |
| Diameter | 70 mm | | |
| Height | 44.7 mm | | |
| Style | Round | | |
| Optic Material | PC | | |
| Holder Material | - | | |
| Fastening | - | | |
| Status | Ready | | |

Not compatible if PCB board fastened with screws. Compatible

Ordering number C13032_BARBARA-WW

| | | | |
|-----------------|-----------|-------------|------------|
| Family | Barbara | FWHM | 60 degrees |
| Type | Reflector | Efficiency | 90 % |
| LED | CXA2011 | cd/lm | 1.000 |
| Color | Metal | Gerber File | Available |
| Diameter | 70 mm | | |
| Height | 44.7 mm | | |
| Style | Round | | |
| Optic Material | PC | | |
| Holder Material | - | | |
| Fastening | Glue | | |
| Status | Ready | | |

**Ordering number C12955_BARBARA-XW**

| | | | |
|-----------------|-----------|-------------|------------|
| Family | Barbara | FWHM | 75 degrees |
| Type | Reflector | Efficiency | 90 % |
| LED | CXA2011 | cd/lm | 0.520 |
| Color | White | Gerber File | Available |
| Diameter | 70 mm | | |
| Height | 44.7 mm | | |
| Style | Round | | |
| Optic Material | PC | | |
| Holder Material | - | | |
| Fastening | Glue | | |
| Status | Ready | | |

Not compatible if PCB board fastened with screws. Compatible

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.



PRODUCT DATASHEET

Barbara series

last update 4/10/2012

GENERAL INFORMATION

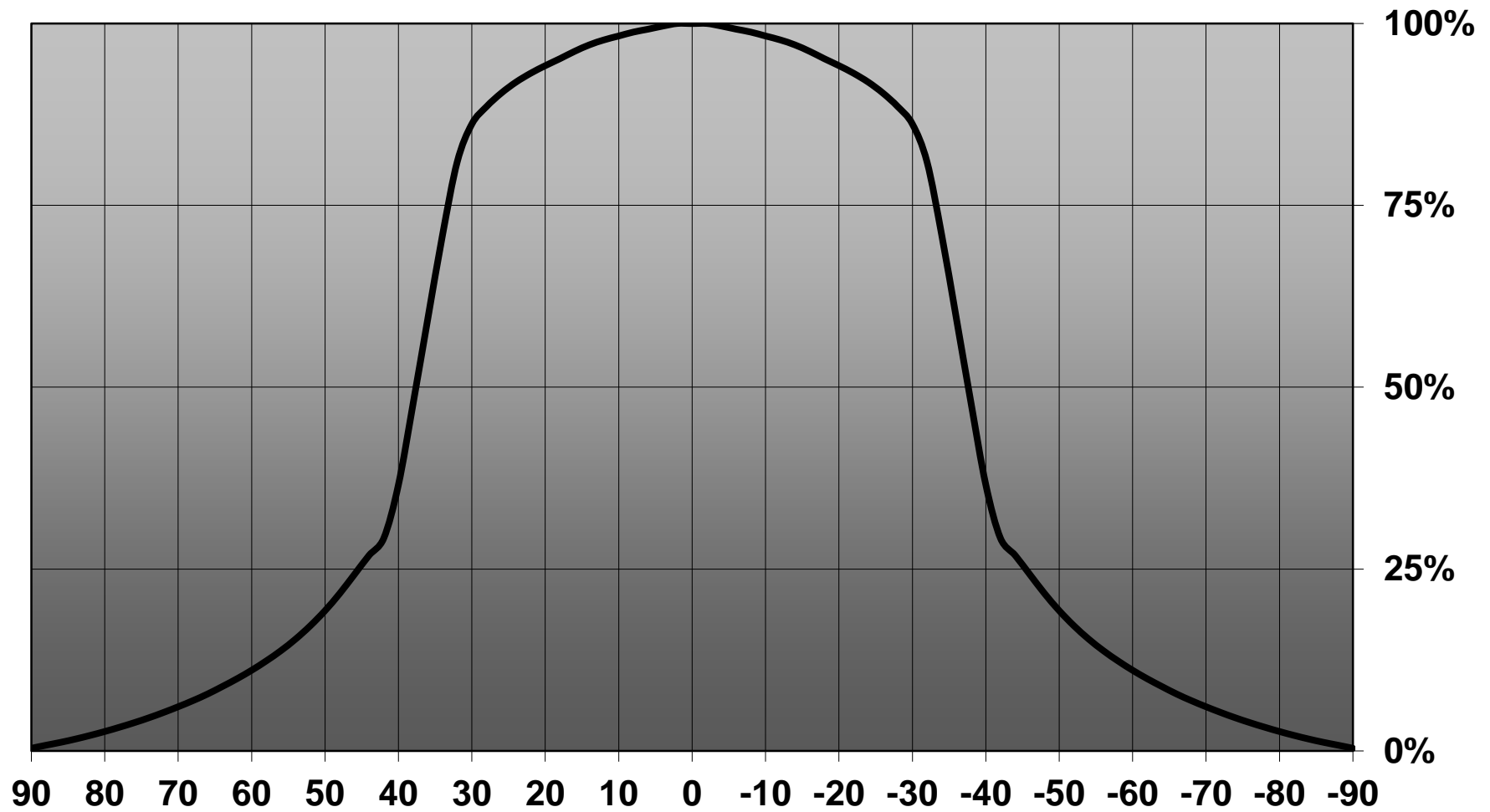
- Product series especially designed & optimized for CXA2011 series of LEDs.
- Special care taken to make light distribution as uniform as possible.
- Reflector is made of aluminium coated PC (120 degrees of Celcius / 248 degrees of Fahrenheit) with protective lacquer (110 degrees of Celcius / 230 degrees of Fahrenheit).
- 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

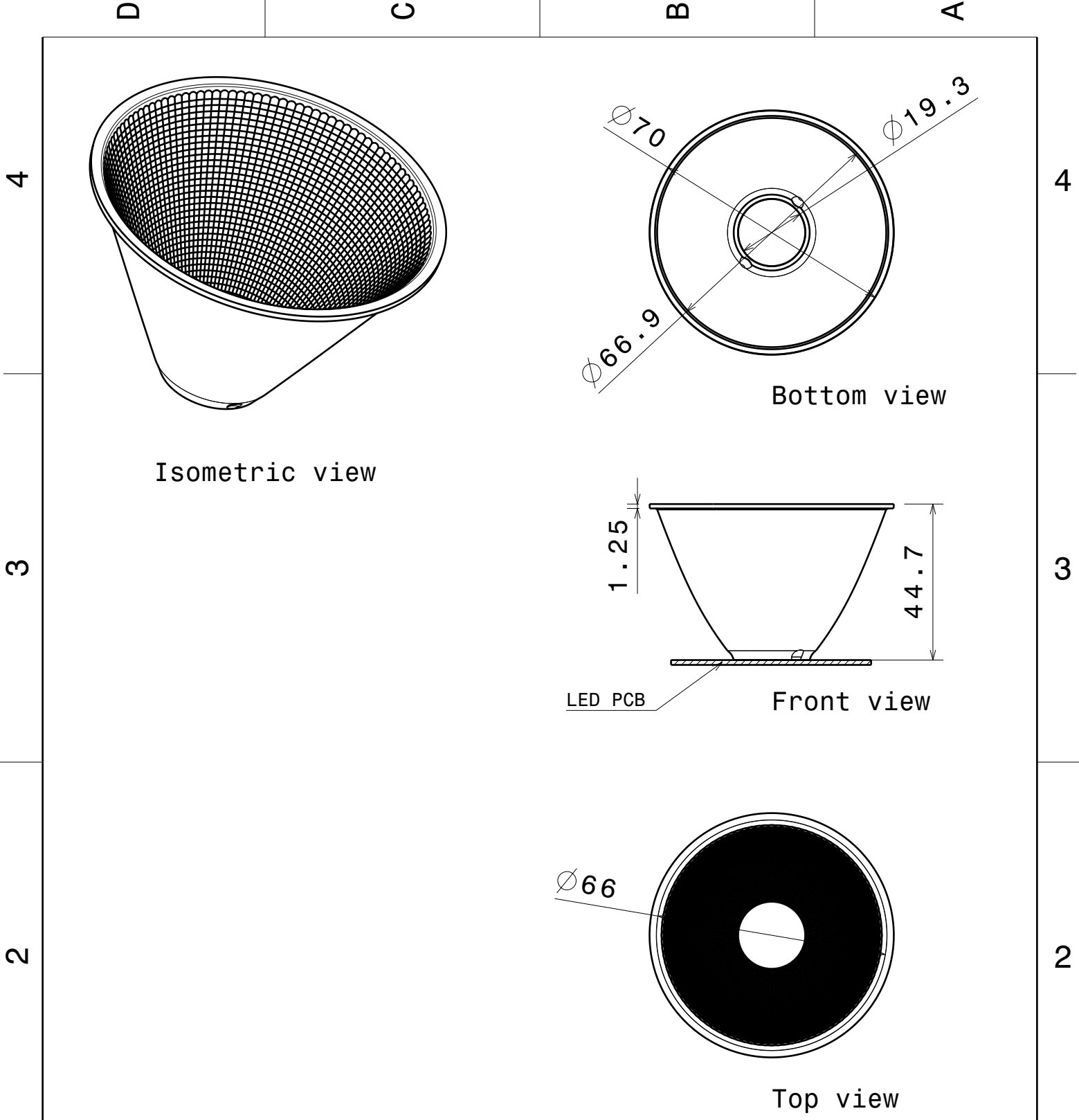
NOTE 1: We advise customer to ensure the suitability and sufficiency of the bond in the end product. For example, mechanical stress, vibration and holes on the surface of the circuit board weaken the strength of the glue.

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.

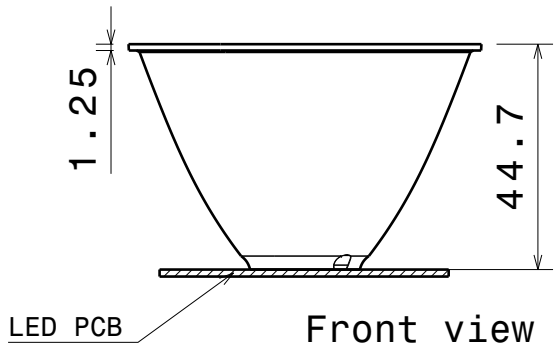
Relative intensity of C12955_BARBARA-XW_(CXA20)



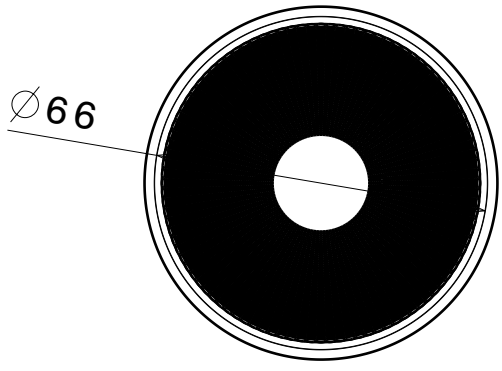


Isometric view

Bottom view



Front view



Top view

Material: PC with Metal coating and clear lacquer

This drawing is our property. It can't be reproduced or communicated without our written agreement.



Ledil Oy
Salorankatu 10
FIN-24100 SALO
Finland

DRAWING TITLE
Datasheet Barbara Reflector series

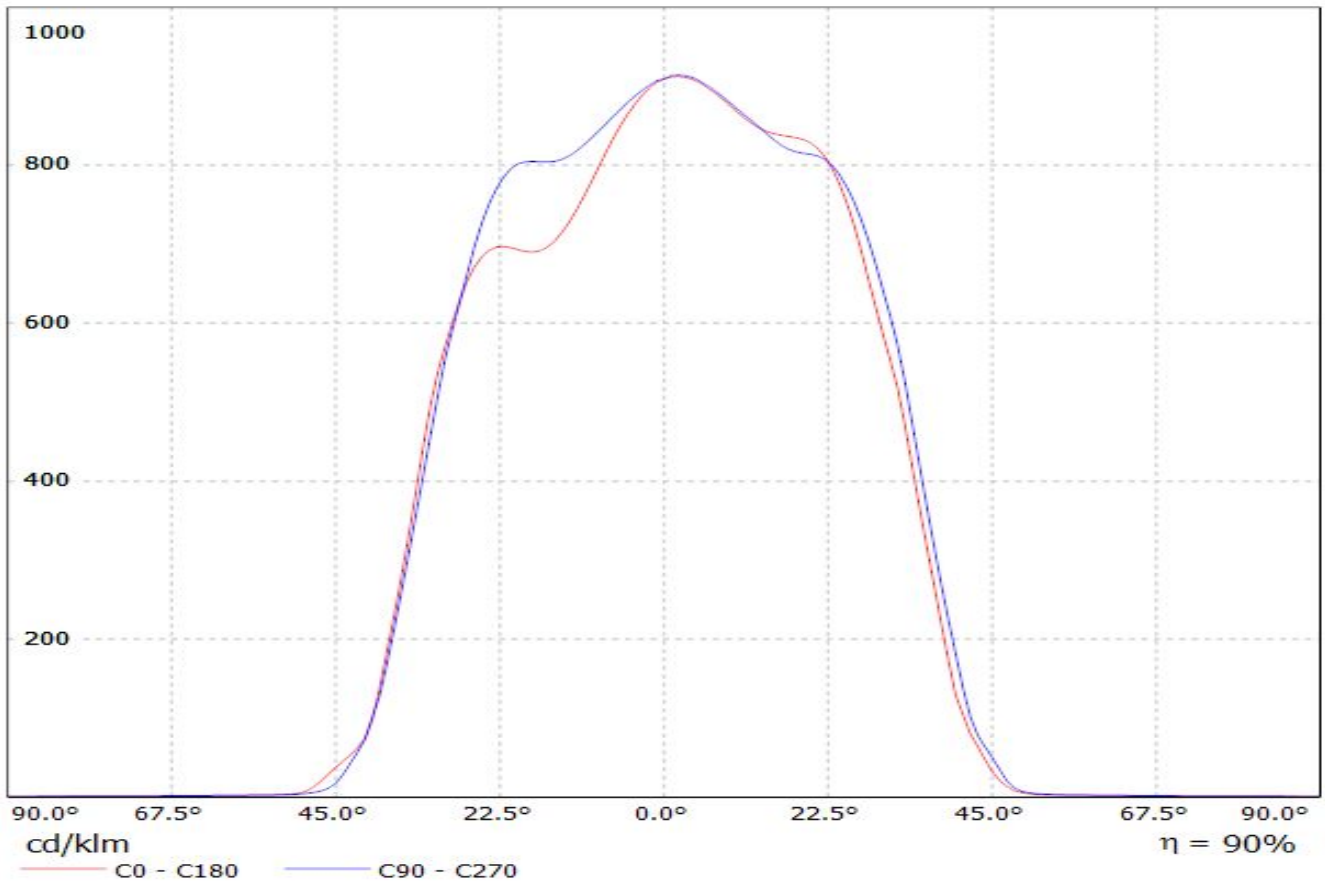
| | |
|-------------------|--------------------|
| DRAWN BY ah | DATE 3.1.2012 |
| CHECKED BY sn | DATE 3.1.2012 |
| DESIGNED BY ol | DATE 23.06.2010 |

| | | |
|--------------|----------------|--------------|
| SIZE A4 | DRAWING NUMBER | REV 2 |
| SCALE 2:3 | WEIGHT (g) | SHEET 1/1 |

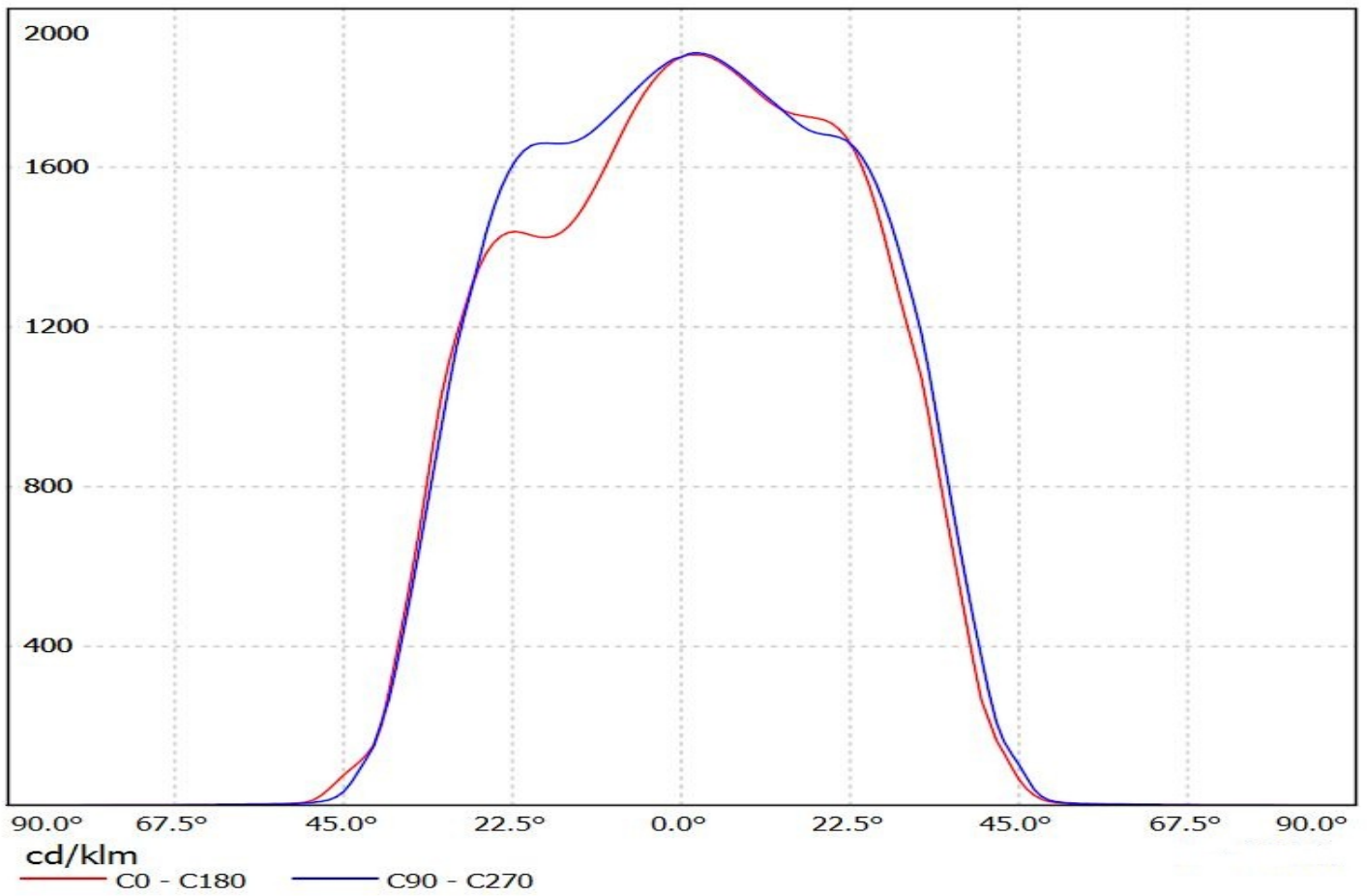
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1

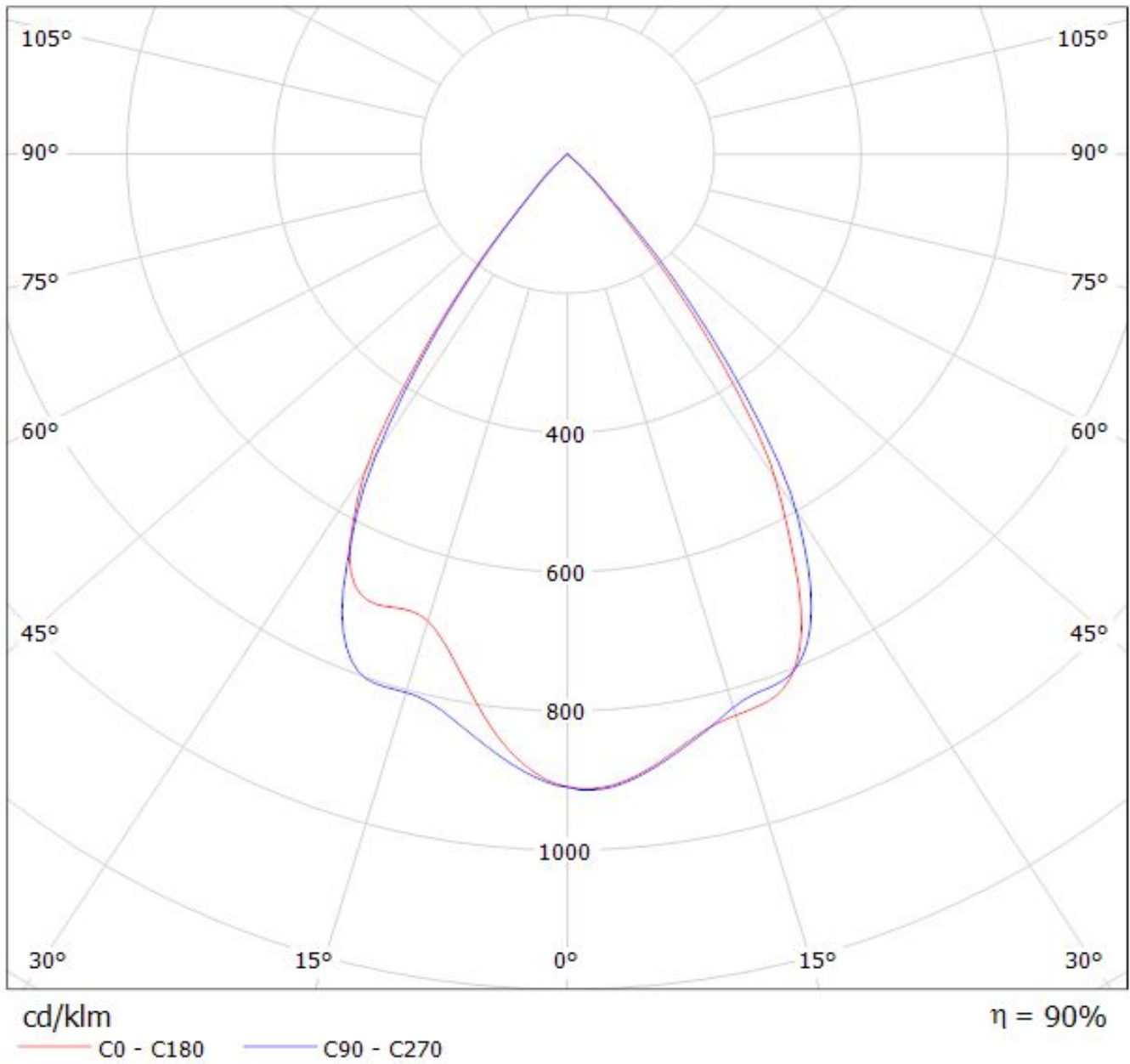
Luminaire: LEDIL OY C13032_BARBARA-WW_(CXA20) Eff. 90%
Lamps: 1 x Cree CXA2011 (713lm@250mA)



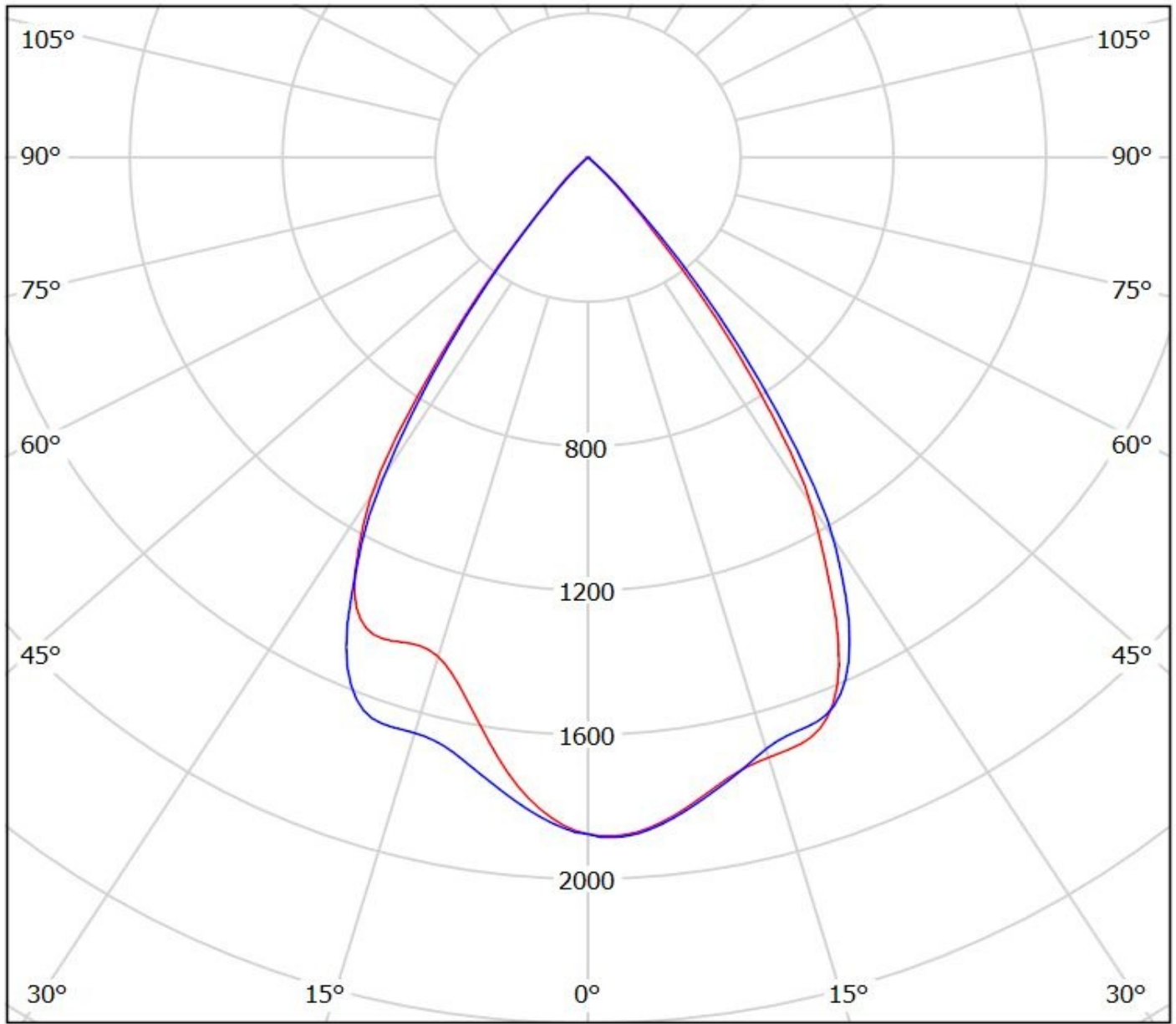
Luminaire: LEDIL OY C13032_BARBARA-WW+CXA20
Lamps: 1 x CXA20



Luminaire: LEDIL OY C13032_BARBARA-WW_(CXA20) Eff. 90%
Lamps: 1 x Cree CXA2011 (713lm@250mA)



Luminaire: LEDIL OY C13032_BARBARA-WW+CXA20
Lamps: 1 x CXA20



cd/klm
— C0 - C180 — C90 - C270