

**Ordering number** CN12706\_LENINA-S

|                 |           |             |            |
|-----------------|-----------|-------------|------------|
| Family          | Lenina    | FWHM        | 26 degrees |
| Type            | Reflector | Efficiency  | 86 %       |
| LED             | CLL040    | cd/Im       | 2.600      |
| Color           | Metal     | Gerber File | Available  |
| Diameter        | 74 mm     |             |            |
| Height          | 46.3 mm   |             |            |
| Style           | Round     |             |            |
| Optic Material  | PC        |             |            |
| Holder Material | PC        |             |            |
| Fastening       | Screw     |             |            |
| Status          | Ready     |             |            |

**Ordering number** CN12709\_LENINA-S-DL

|                 |           |             |            |
|-----------------|-----------|-------------|------------|
| Family          | Lenina    | FWHM        | 30 degrees |
| Type            | Reflector | Efficiency  | 78 %       |
| LED             | CLL040    | cd/Im       | 1.900      |
| Color           | Metal     | Gerber File | Available  |
| Diameter        | 74 mm     |             |            |
| Height          | 48.4 mm   |             |            |
| Style           | Round     |             |            |
| Optic Material  | PC        |             |            |
| Holder Material | PC        |             |            |
| Fastening       | Screw     |             |            |
| Status          | Ready     |             |            |

**Ordering number** CN12707\_LENINA-M

|                 |           |             |            |
|-----------------|-----------|-------------|------------|
| Family          | Lenina    | FWHM        | 40 degrees |
| Type            | Reflector | Efficiency  | 86 %       |
| LED             | CLL040    | cd/Im       | 1.500      |
| Color           | Metal     | Gerber File | Available  |
| Diameter        | 74 mm     |             |            |
| Height          | 46.3 mm   |             |            |
| Style           | Round     |             |            |
| Optic Material  | PC        |             |            |
| Holder Material | PC        |             |            |
| Fastening       | Screw     |             |            |
| Status          | Ready     |             |            |

**Ordering number** CN12710\_LENINA-M-DL

|                 |           |             |            |
|-----------------|-----------|-------------|------------|
| Family          | Lenina    | FWHM        | 43 degrees |
| Type            | Reflector | Efficiency  | 78 %       |
| LED             | CLL040    | cd/Im       | 1.200      |
| Color           | Metal     | Gerber File | Available  |
| Diameter        | 74 mm     |             |            |
| Height          | 48.4 mm   |             |            |
| Style           | Round     |             |            |
| Optic Material  | PC        |             |            |
| Holder Material | PC        |             |            |
| Fastening       | Screw     |             |            |
| Status          | Ready     |             |            |

**Ordering number** CN12711\_LENINA-W-DL

|                 |           |             |            |
|-----------------|-----------|-------------|------------|
| Family          | Lenina    | FWHM        | 56 degrees |
| Type            | Reflector | Efficiency  | 76 %       |
| LED             | CLL040    | cd/Im       | 0.900      |
| Color           | Metal     | Gerber File | Available  |
| Diameter        | 74 mm     |             |            |
| Height          | 48.4 mm   |             |            |
| Style           | Round     |             |            |
| Optic Material  | PC        |             |            |
| Holder Material | PC        |             |            |
| Fastening       | Screw     |             |            |
| Status          | Ready     |             |            |

**Ordering number** CN12708\_LENINA-W

|                 |           |             |            |
|-----------------|-----------|-------------|------------|
| Family          | Lenina    | FWHM        | 59 degrees |
| Type            | Reflector | Efficiency  | 84 %       |
| LED             | CLL040    | cd/Im       | 1.000      |
| Color           | Metal     | Gerber File | Available  |
| Diameter        | 74 mm     |             |            |
| Height          | 46.3 mm   |             |            |
| Style           | Round     |             |            |
| Optic Material  | PC        |             |            |
| Holder Material | PC        |             |            |
| Fastening       | Screw     |             |            |
| Status          | Ready     |             |            |

**Ordering number** CN12965\_LENINA-XW

|                 |          |             |            |
|-----------------|----------|-------------|------------|
| Family          | Lenina   | FWHM        | 71 degrees |
| Type            | Assembly | Efficiency  | 89 %       |
| LED             | CLL040   | cd/Im       | 0.617      |
| Color           | White    | Gerber File | Available  |
| Diameter        | 74 mm    |             |            |
| Height          | 46.3 mm  |             |            |
| Style           | Round    |             |            |
| Optic Material  | PC       |             |            |
| Holder Material | PC       |             |            |
| Fastening       | Socket   |             |            |
| Status          | Ready    |             |            |

**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

### Lenina series

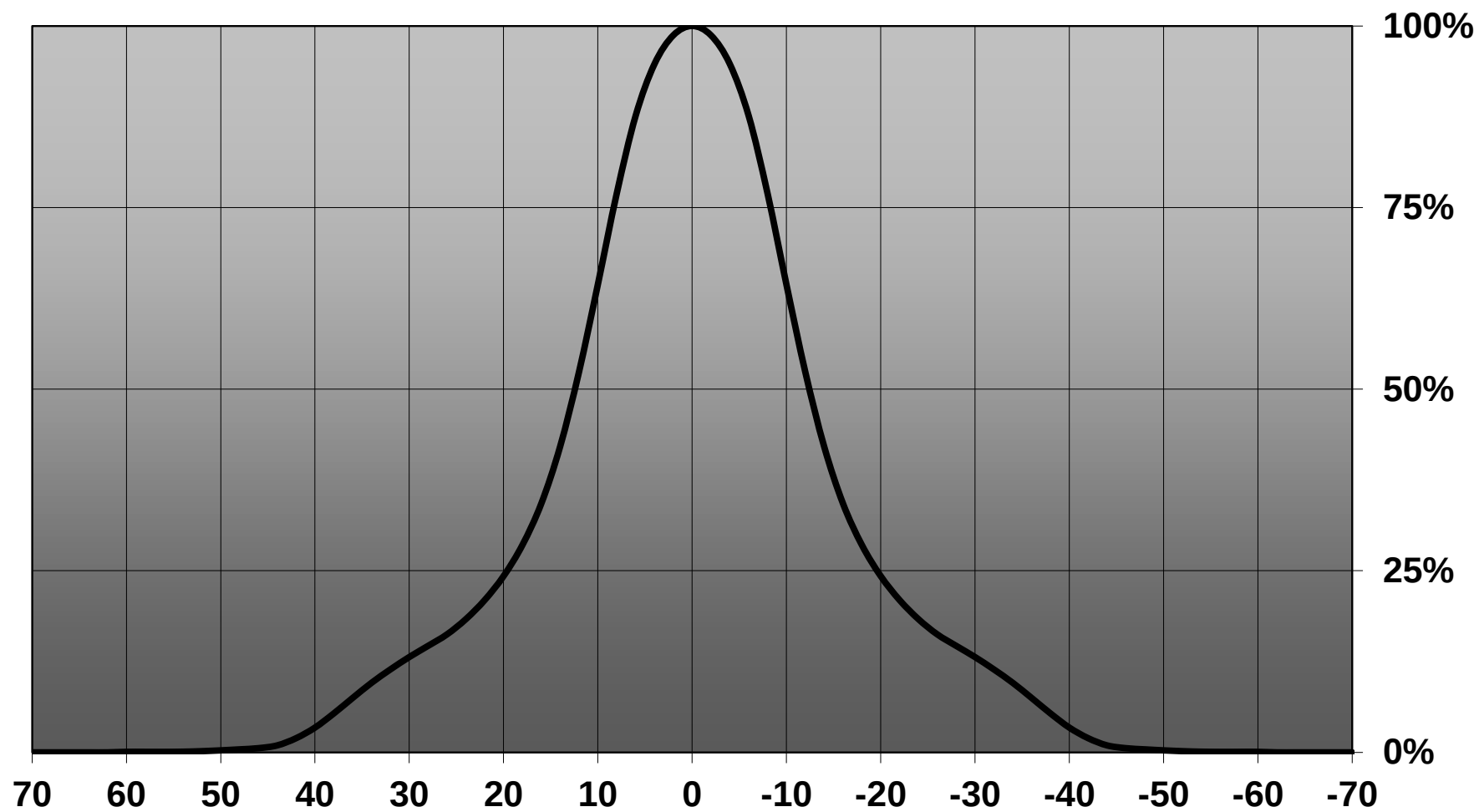
last update 27/9/2012

CITIZEN

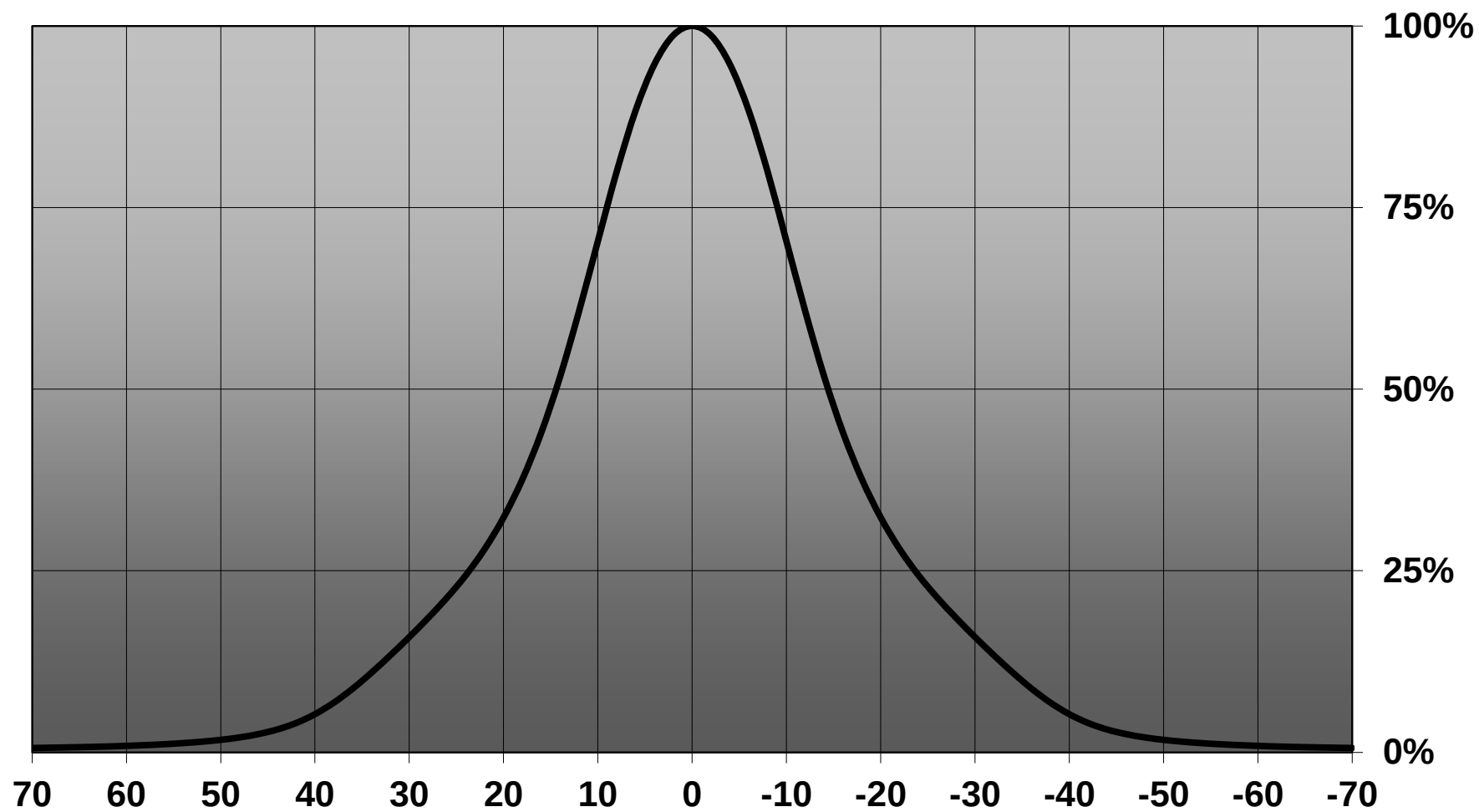
#### GENERAL INFORMATION

- Product series especially designed & optimized for CLL040 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).
- Optic holder molded by high quality PC material (120 dergees of Celcius / 248 degrees of Fahrenheit).

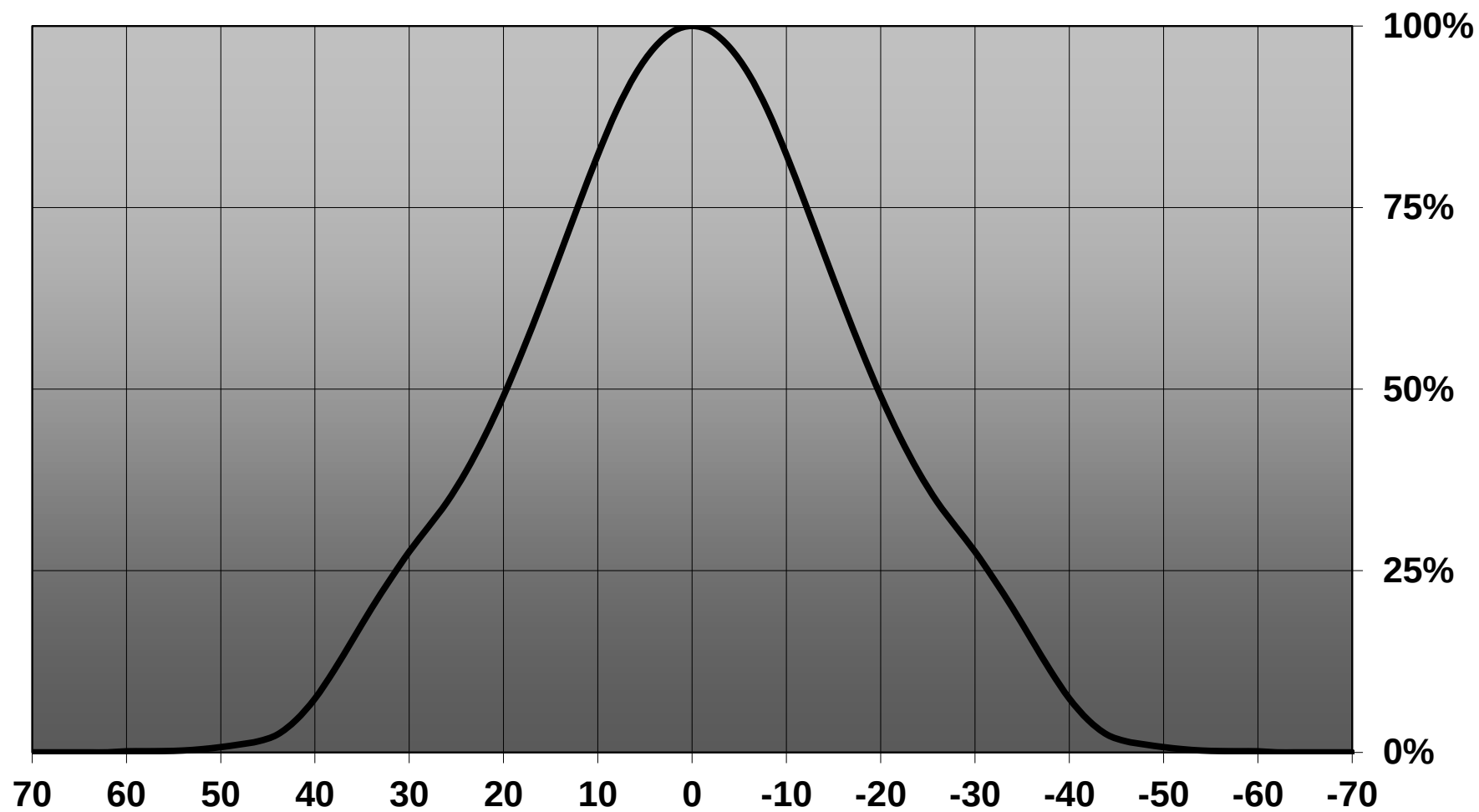
Relative intensity of CN12706\_LENINA-S



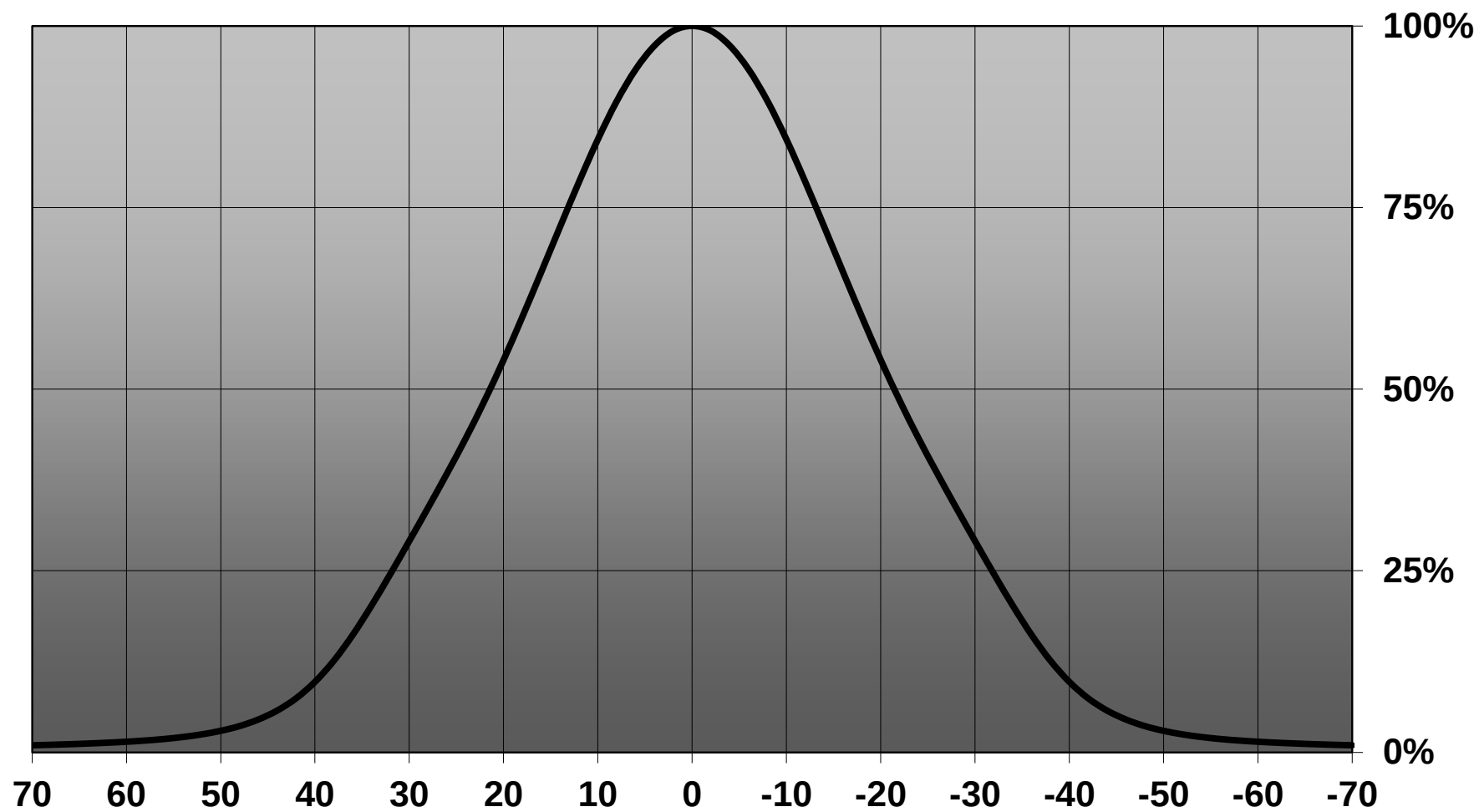
Relative intensity of CN12709\_LENINA-S-DL



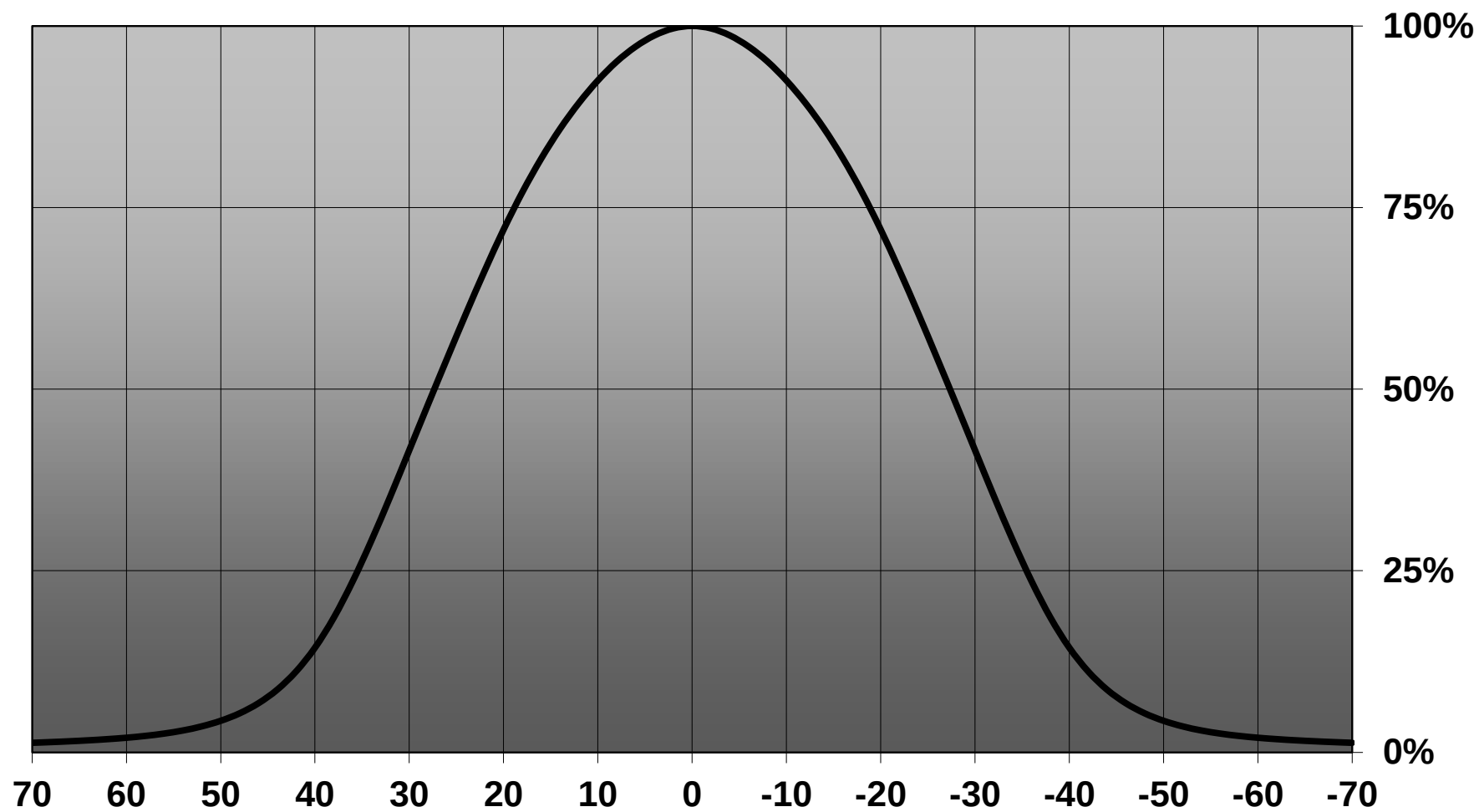
Relative intensity of CN12707\_LENINA-M



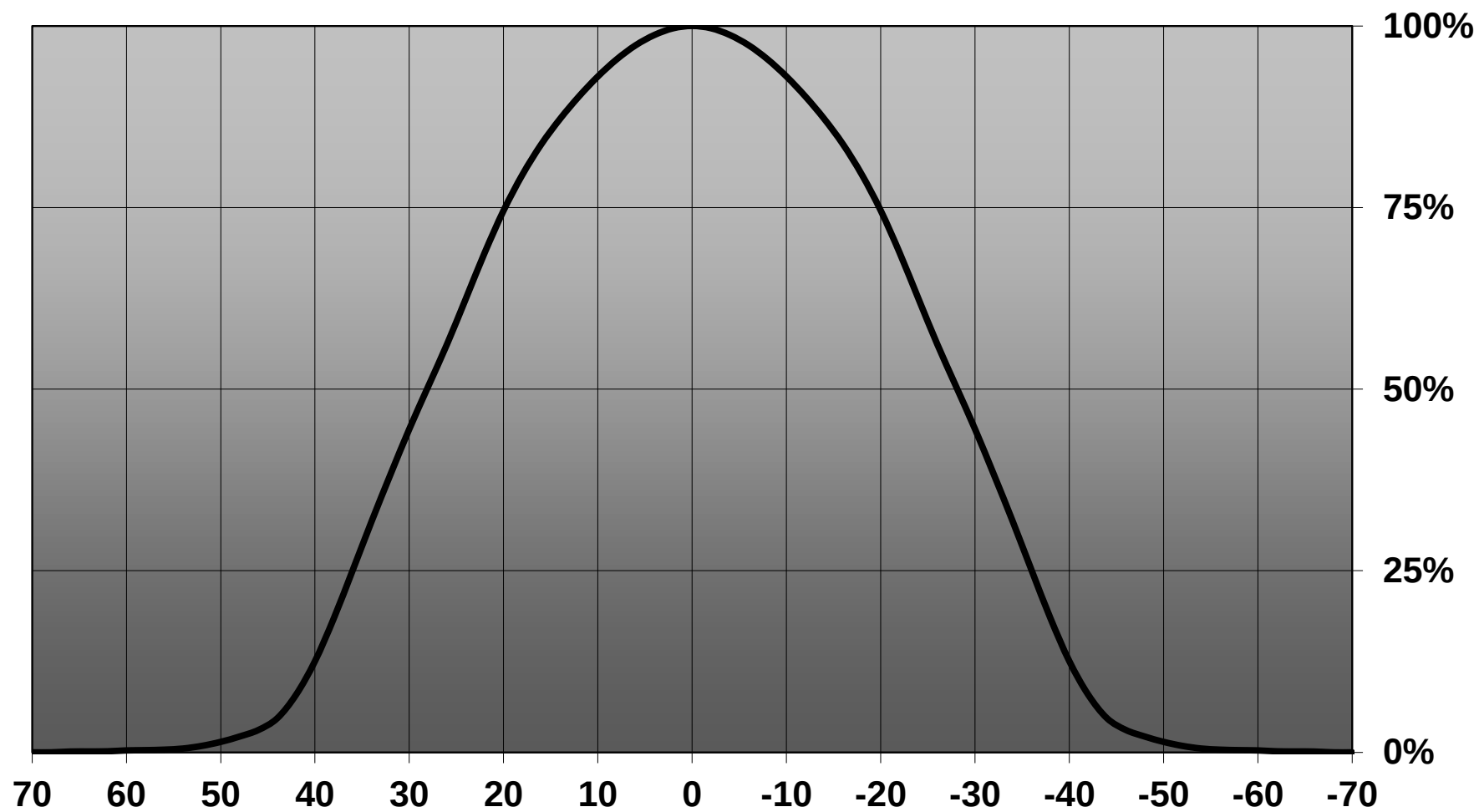
Relative intensity of CN12710\_LENINA-M-DL



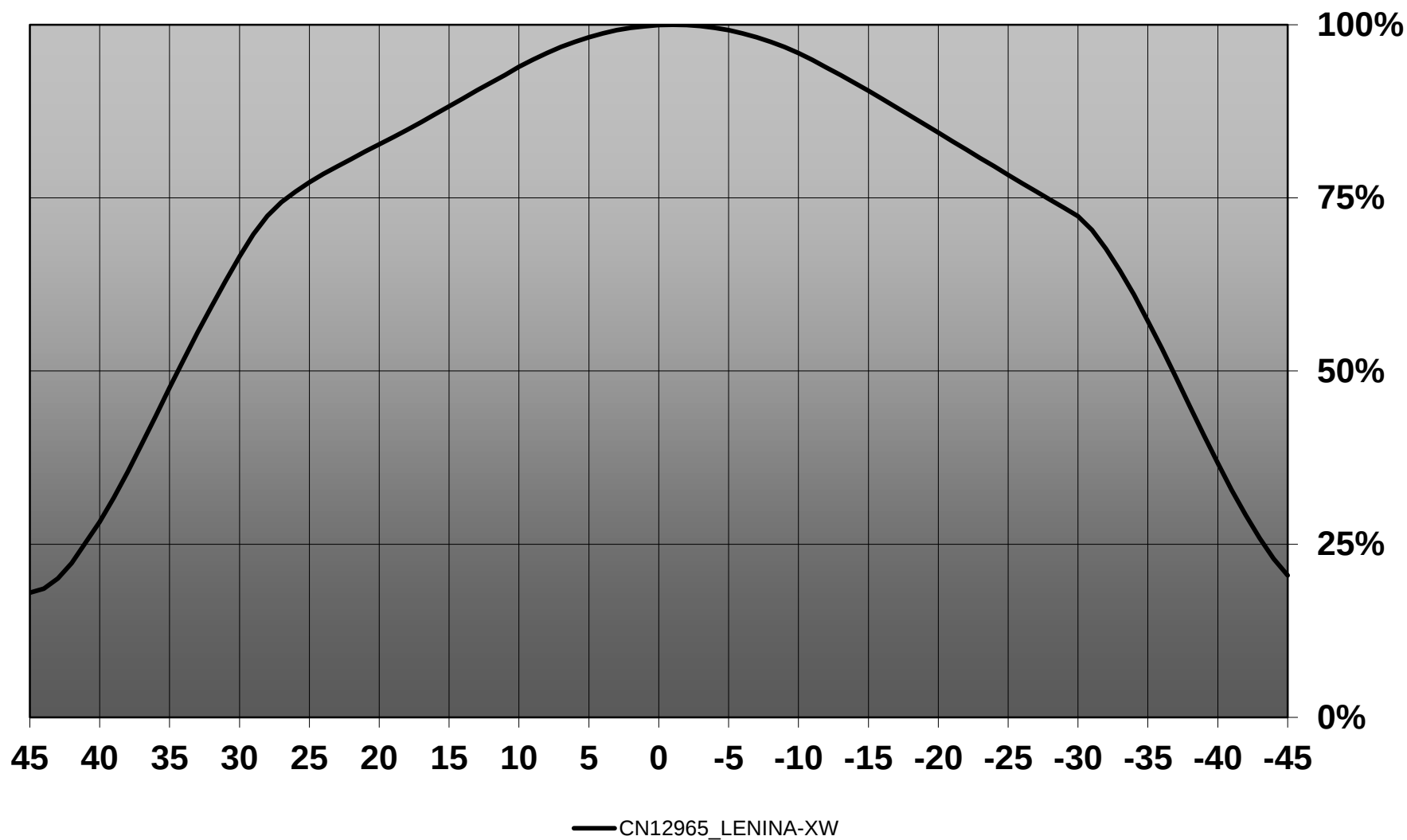
Relative intensity of CN12711\_LENINA-W-DL



Relative intensity of CN12708\_LENINA-W



**Absolute intensity of CN12965\_LENINA-XW**



4

3

2

1

D

C

B

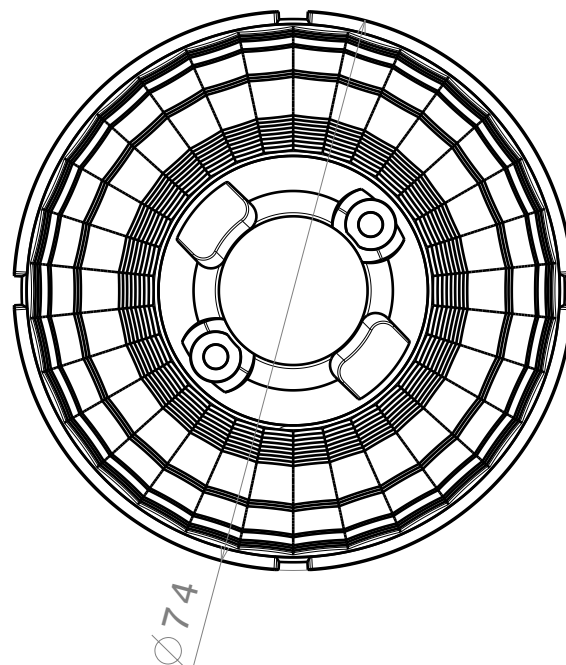
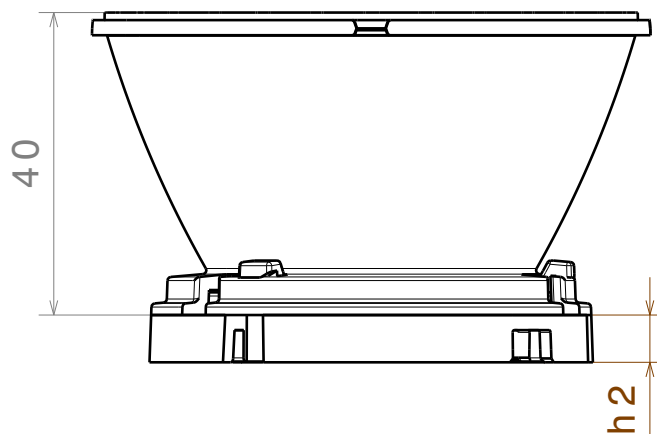
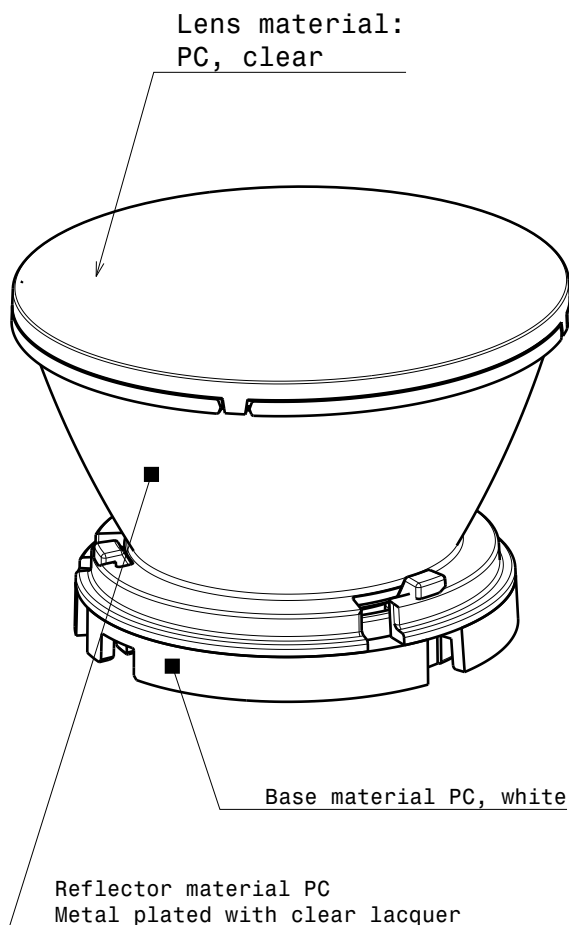
A

4

3

2

1



#### NOTE:

Using optional sublens, add 2.1mm to the system height

Dimension 'h2' varies from 4.5mm to 7mm depending on the LED specific base part

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our written agreement.



Ledil Oy  
Salorankatu 10  
FIN-24240 SALO  
Finland

#### DRAWING TITLE

Datasheet Lenina series

DRAWN BY  
pl

DATE  
08.03.2012

CHECKED BY

DATE

SIZE  
A4

DRAWING NUMBER

--

REV  
1

DESIGNED BY  
pl

DATE  
08.03.2012

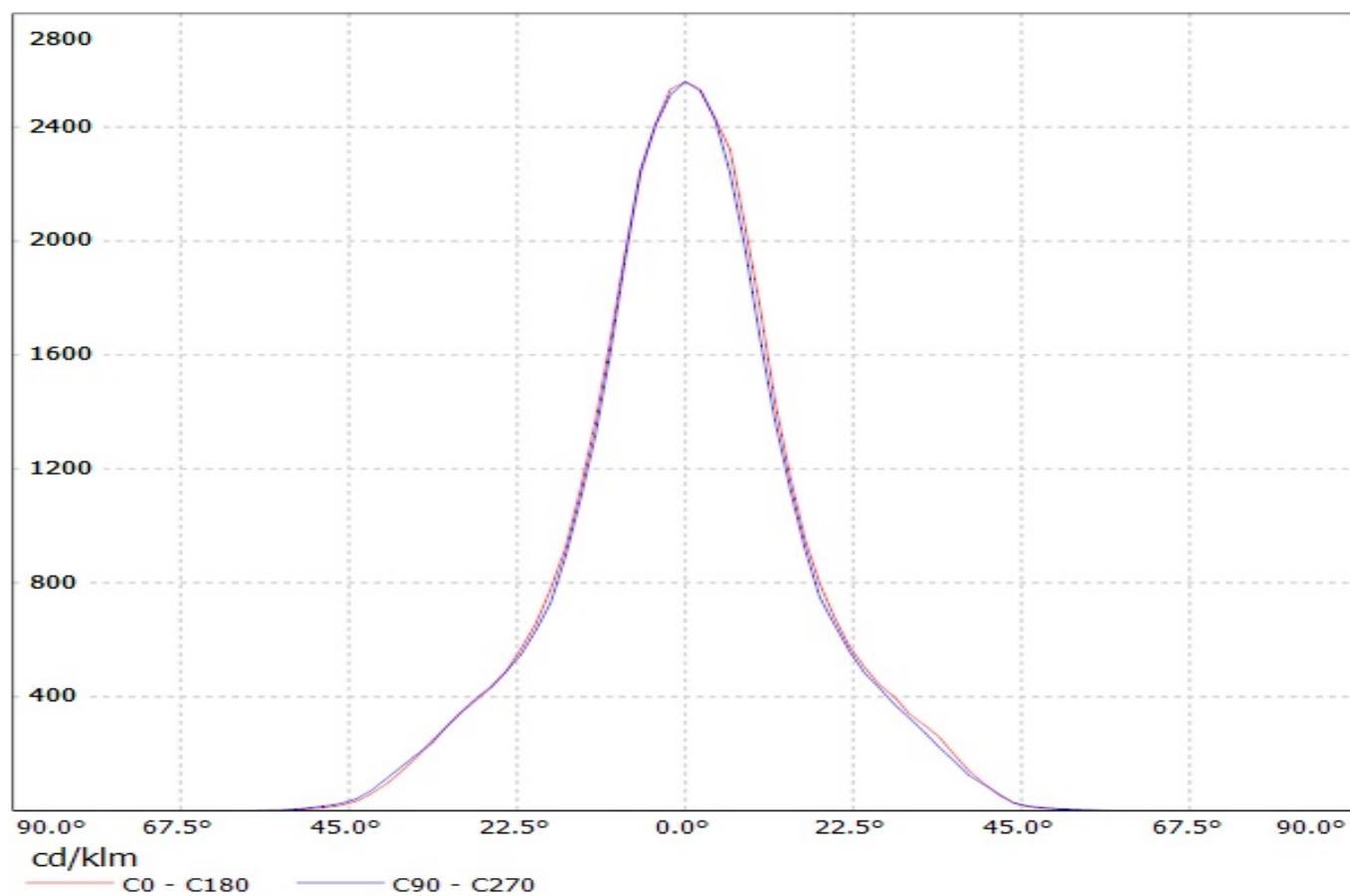
SCALE 1:1 WEIGHT (g)

SHEET 1/1

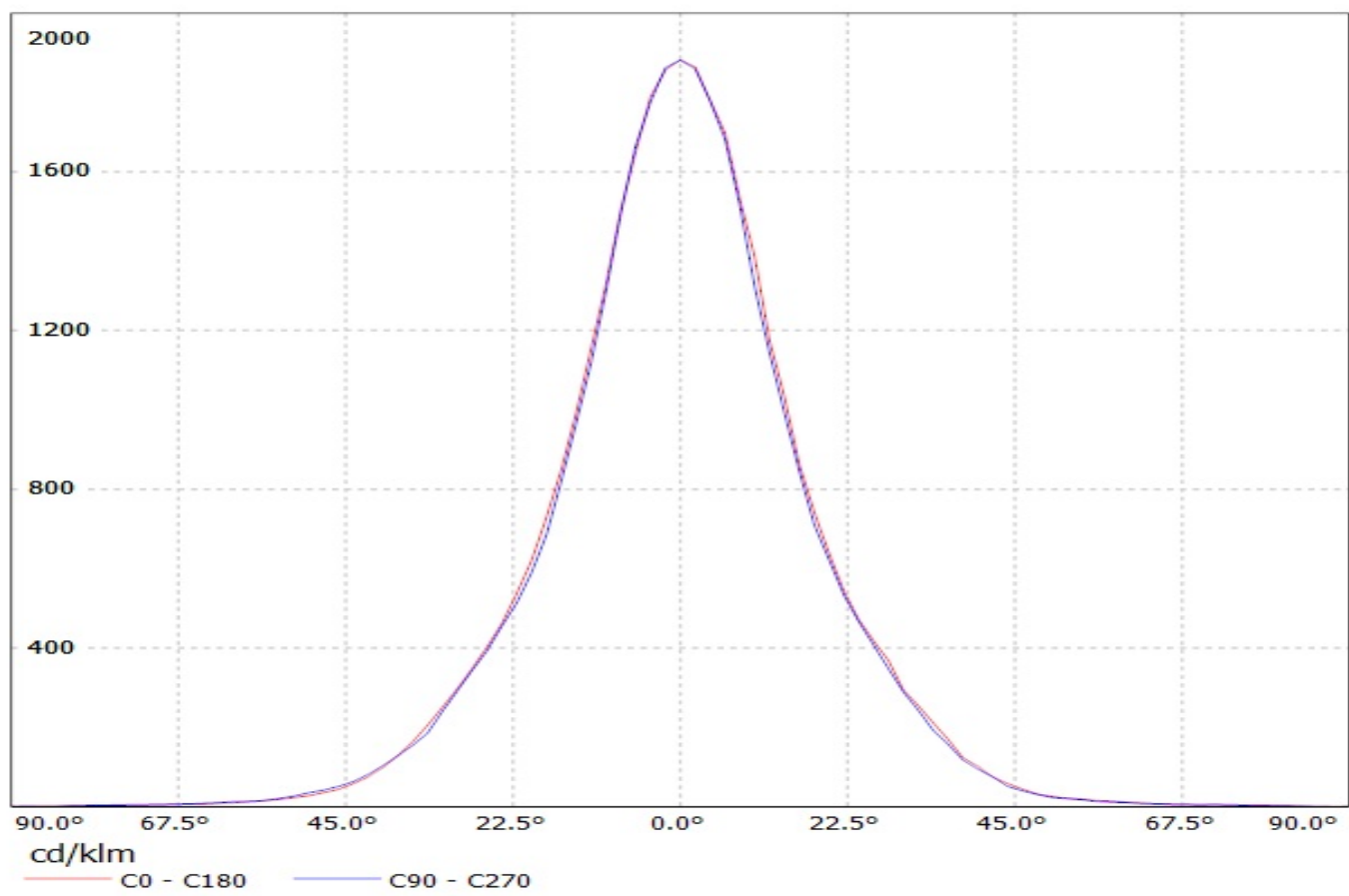
D

A

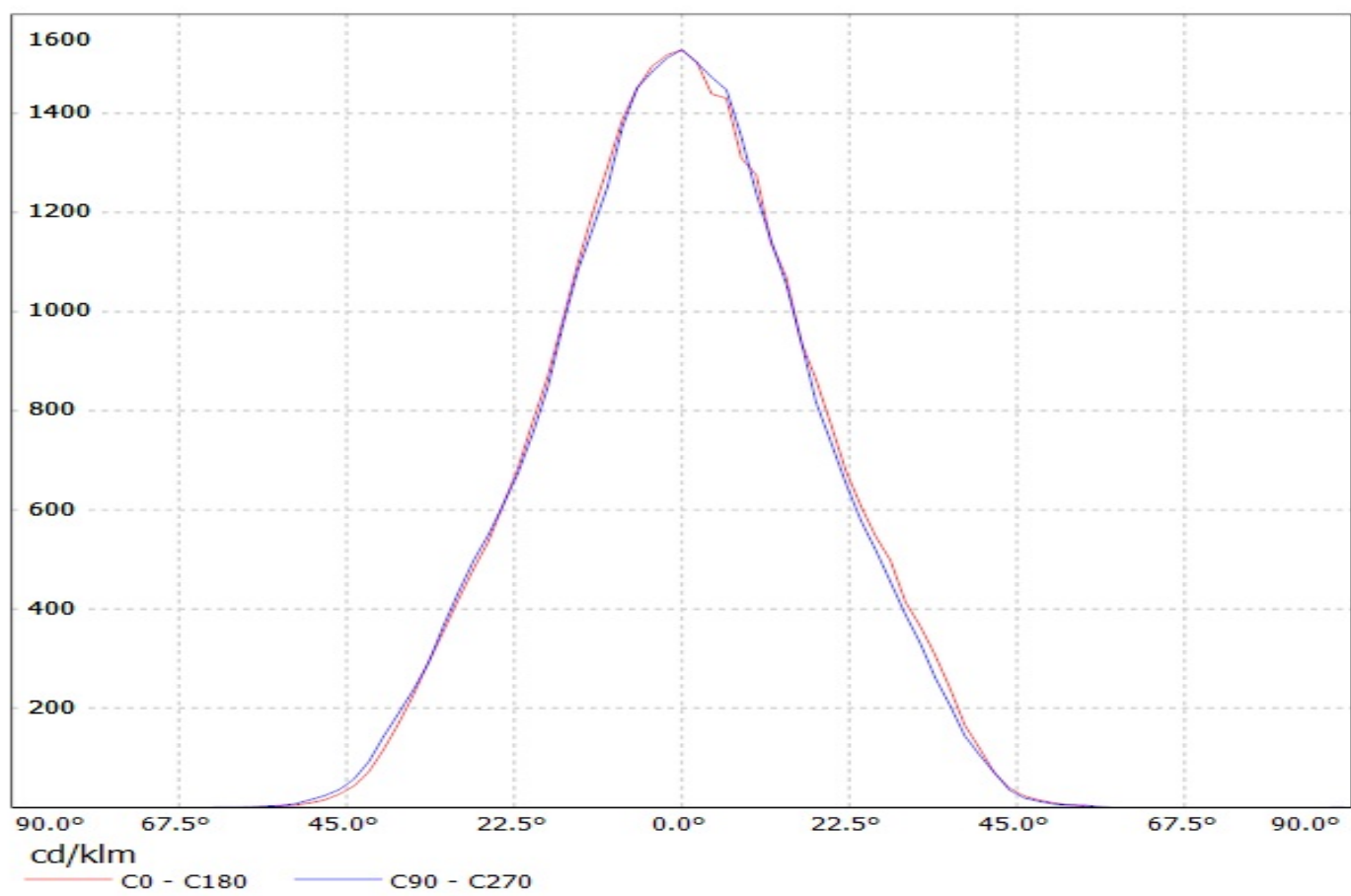
Luminaire: Ledil Oy CN12706\_LENINA-S (Citizen CLL040-1818 1044lm @ 250mA) Efficiency=86%  
Lamps: 1 x Citizen CLL040-1818 1044lm @ 250mA



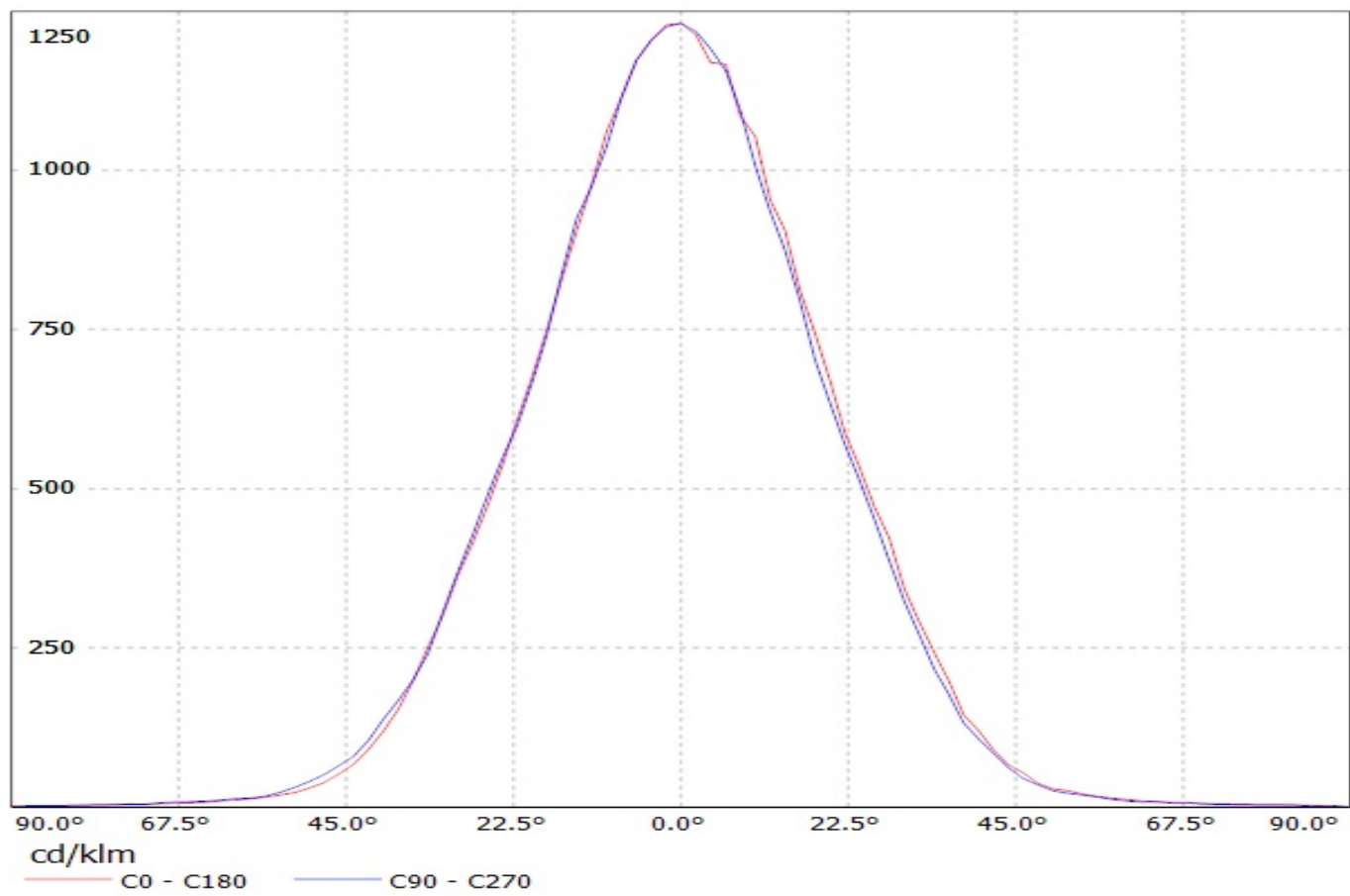
Luminaire: Ledil Oy CN12709\_LENINA-S-DL (Citizen CLL040-1818 1044lm @ 250mA) Efficiency=78%  
Lamps: 1 x Citizen CLL040-1818 1044lm @ 250mA



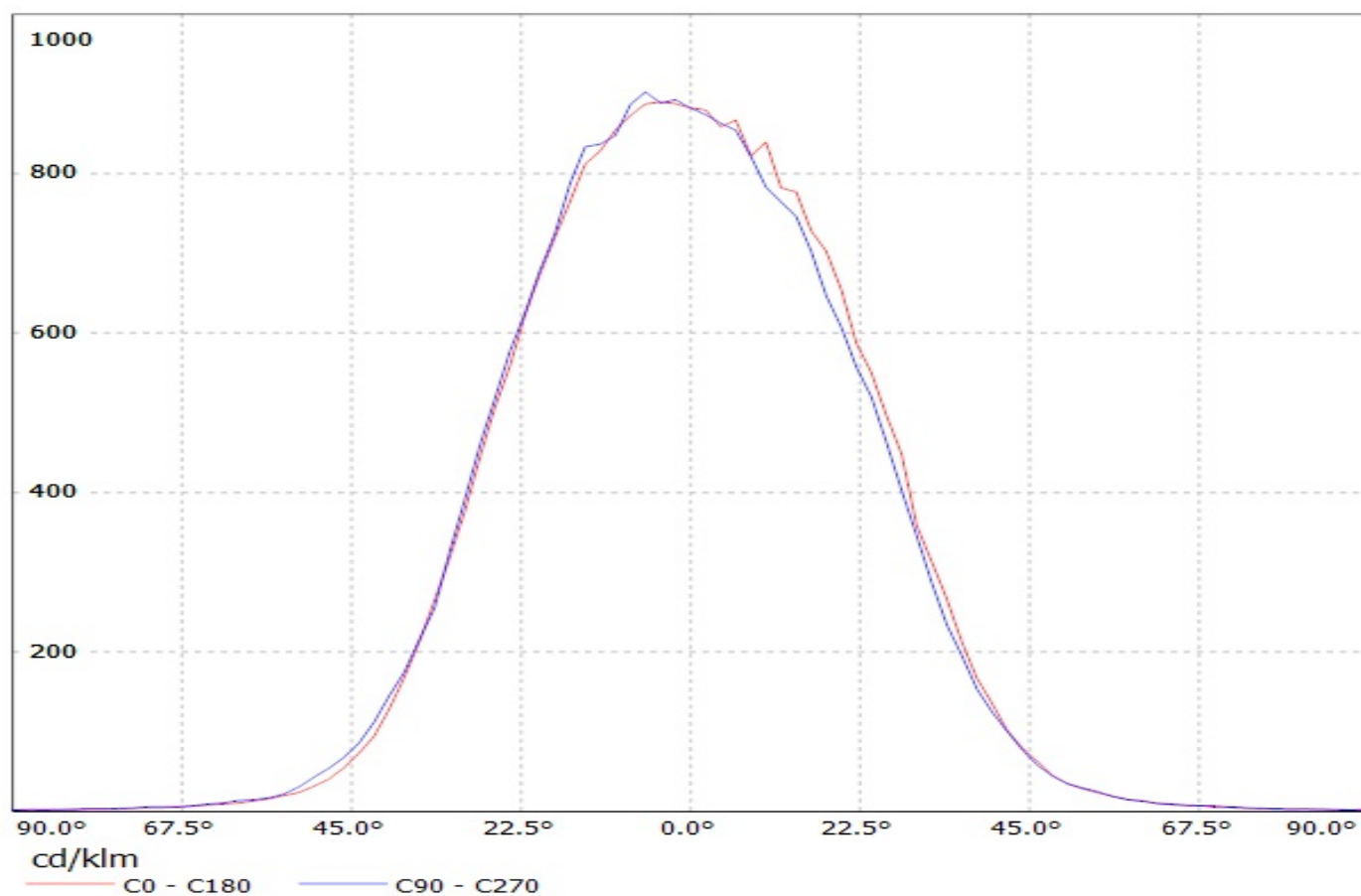
Luminaire: Ledil Oy CN12707\_LENINA-M (Citizen CLL040 1044lm @ 250mA) Efficiency=86%  
Lamps: 1 x Citizen CLL040 1044lm @ 250mA



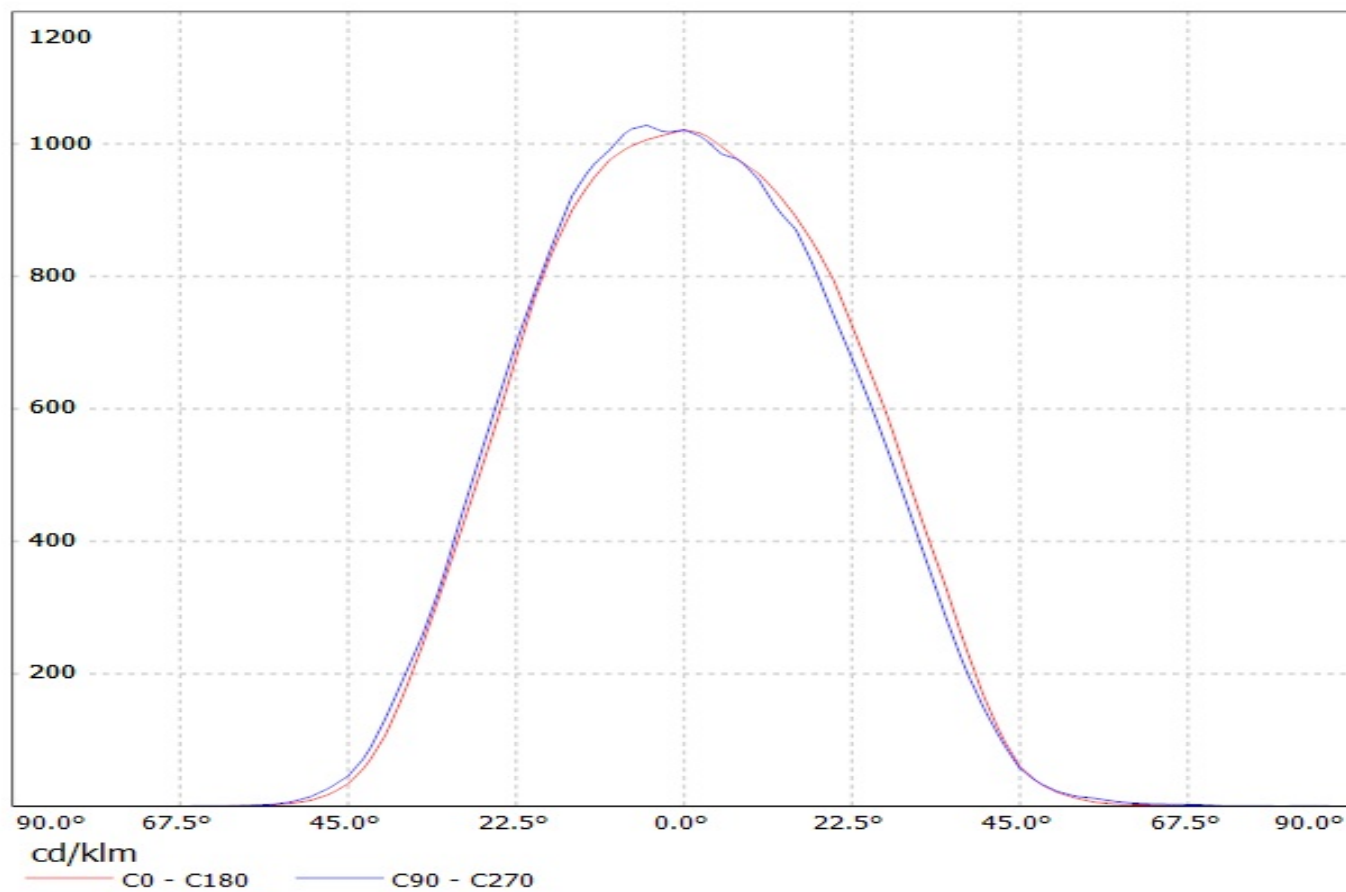
Luminaire: Ledil Oy CN12710\_LENINA-M-DL (Citizen CLL040 1044lm @ 250mA) Efficiency=78%  
Lamps: 1 x Citizen CLL040 1044lm @ 250mA



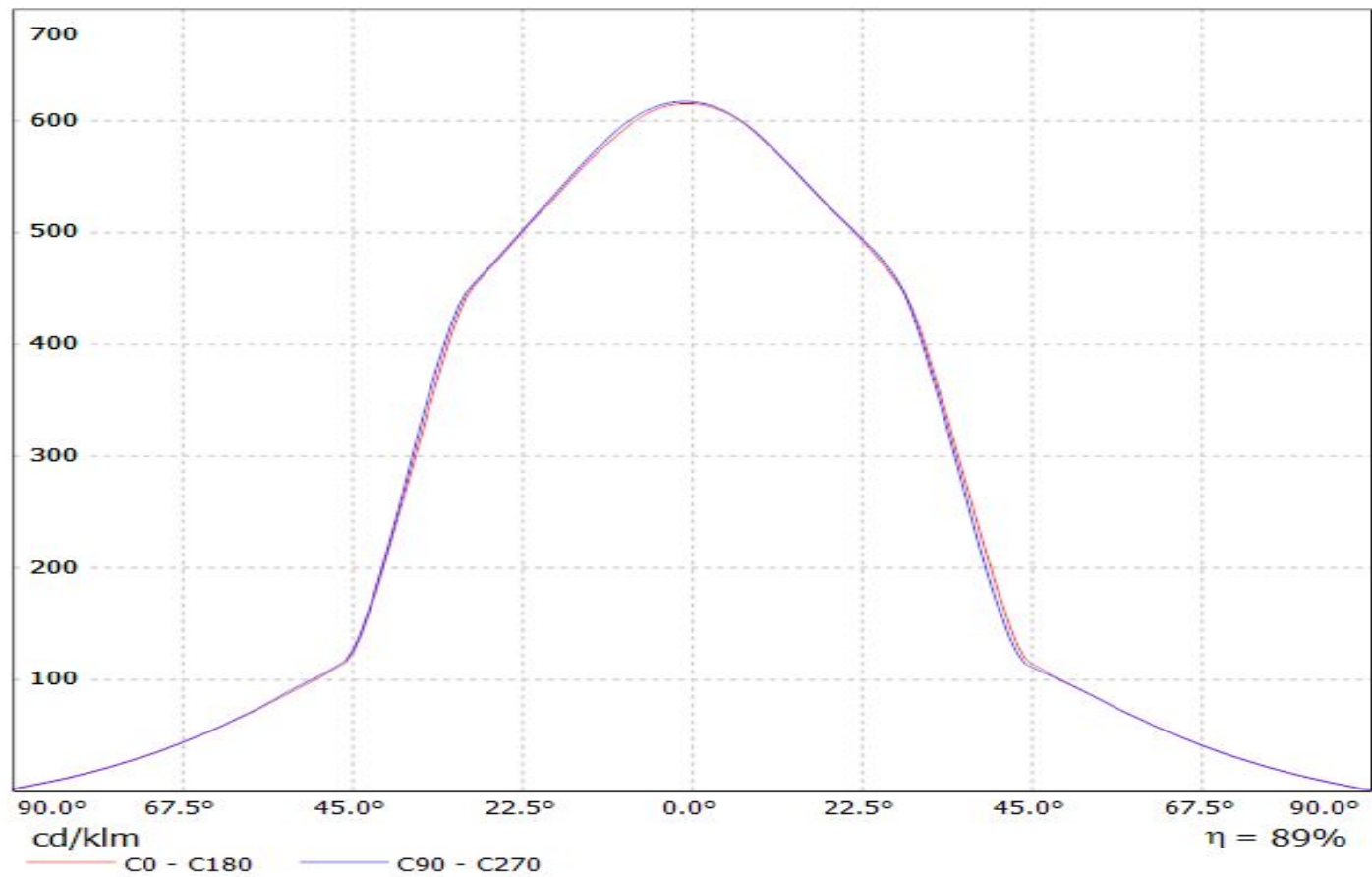
Luminaire: Ledil Oy CN12711\_LENINA-W-DL (Citizen CLL040 1044lm @ 250mA) Efficiency=76%  
Lamps: 1 x Citizen CLL040 1044lm @ 250mA



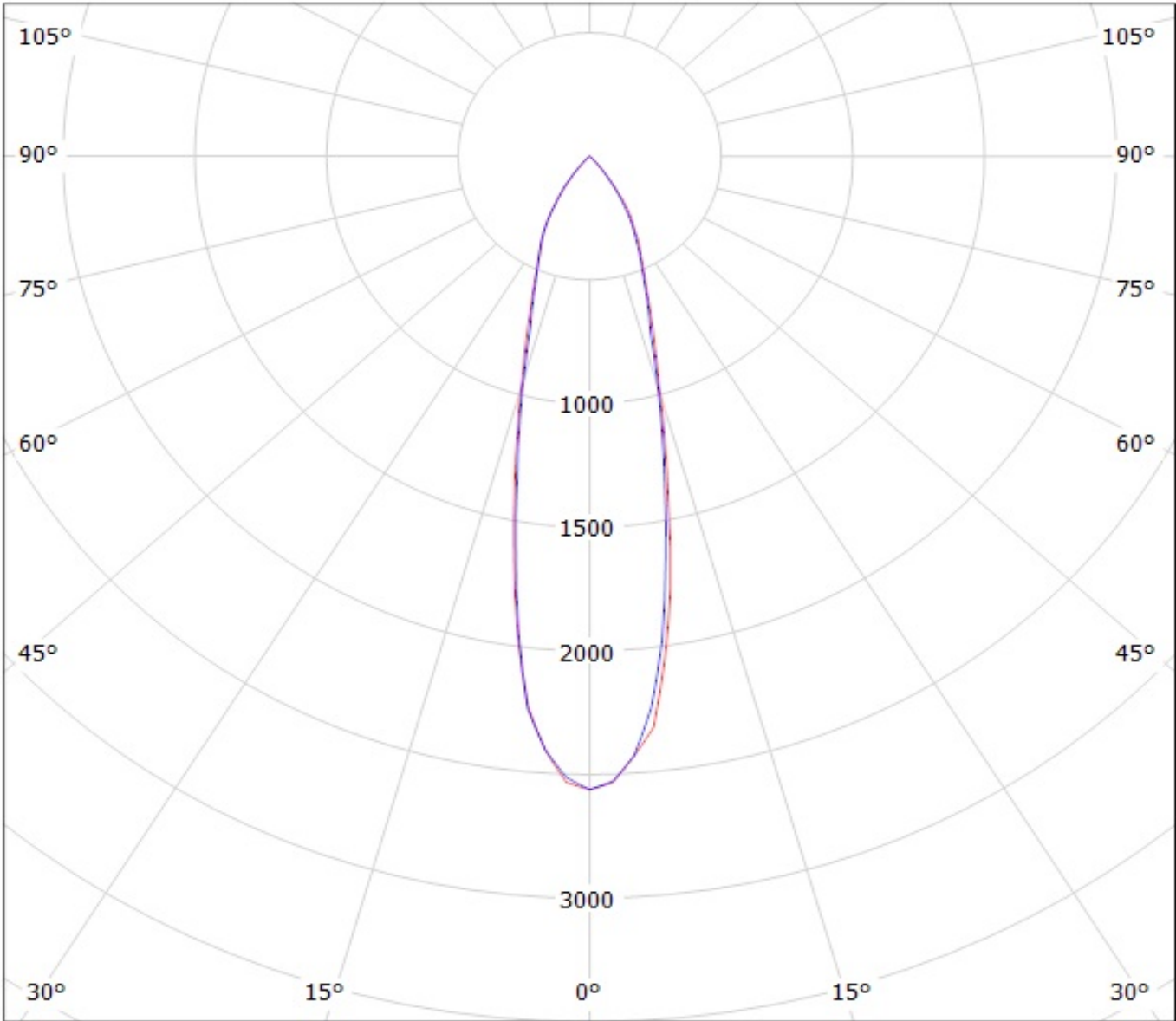
Luminaire: Ledil Oy CN12708\_LENINA-W (Citizen CLL040 1044lm @ 250mA) Efficiency=84%  
Lamps: 1 x Citizen CLL040 1044lm @ 250mA



Luminaire: LEDIL OY CN12965\_LENINA-XW Eff.88.8%  
Lamps: 1 x CLL040 (897.6lm@250mA)



Luminaire: Ledil Oy CN12706\_LENINA-S (Citizen CLL040-1818 1044lm @ 250mA) Efficiency=86%  
Lamps: 1 x Citizen CLL040-1818 1044lm @ 250mA

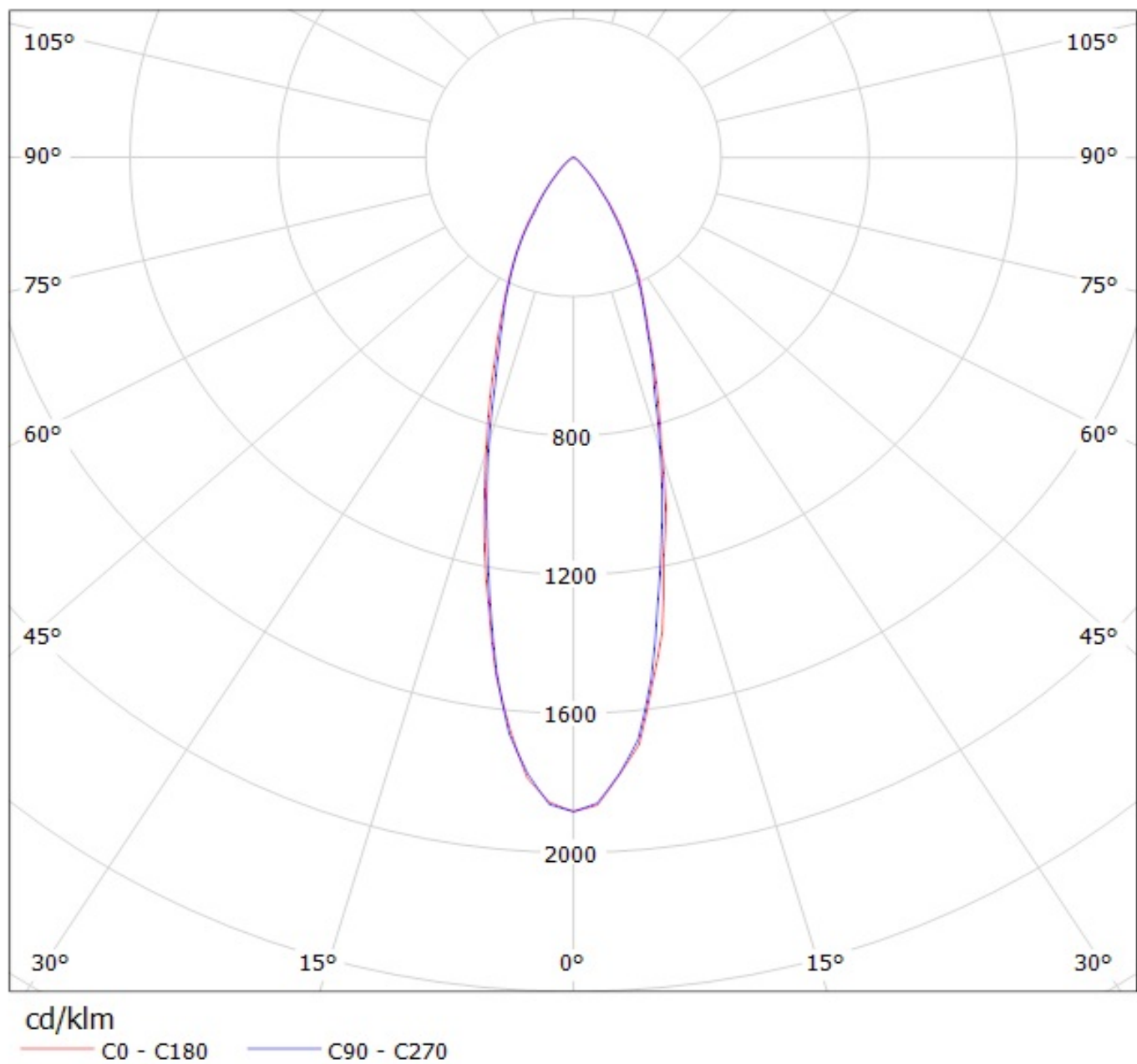


cd/klm

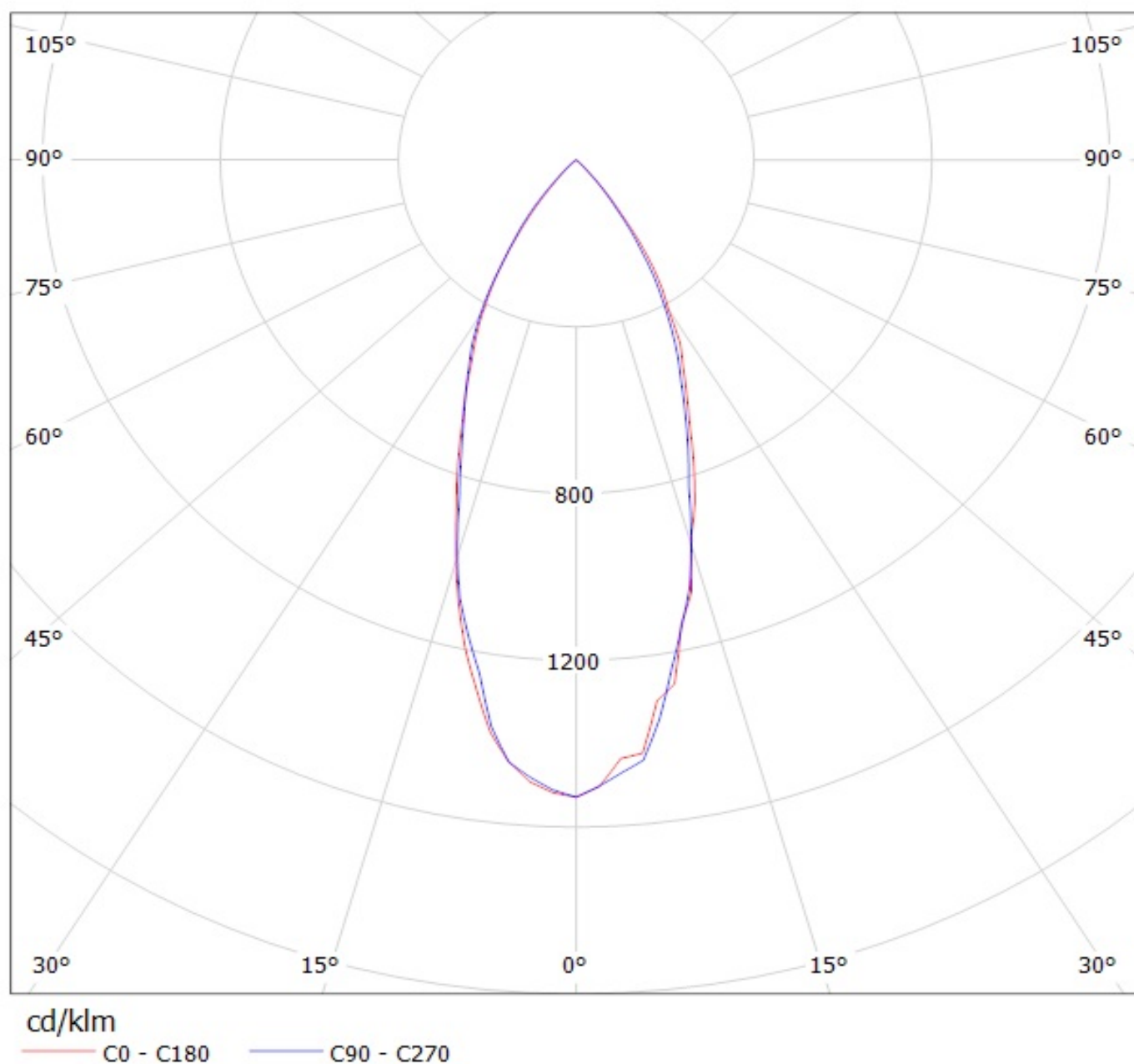
C0 - C180

C90 - C270

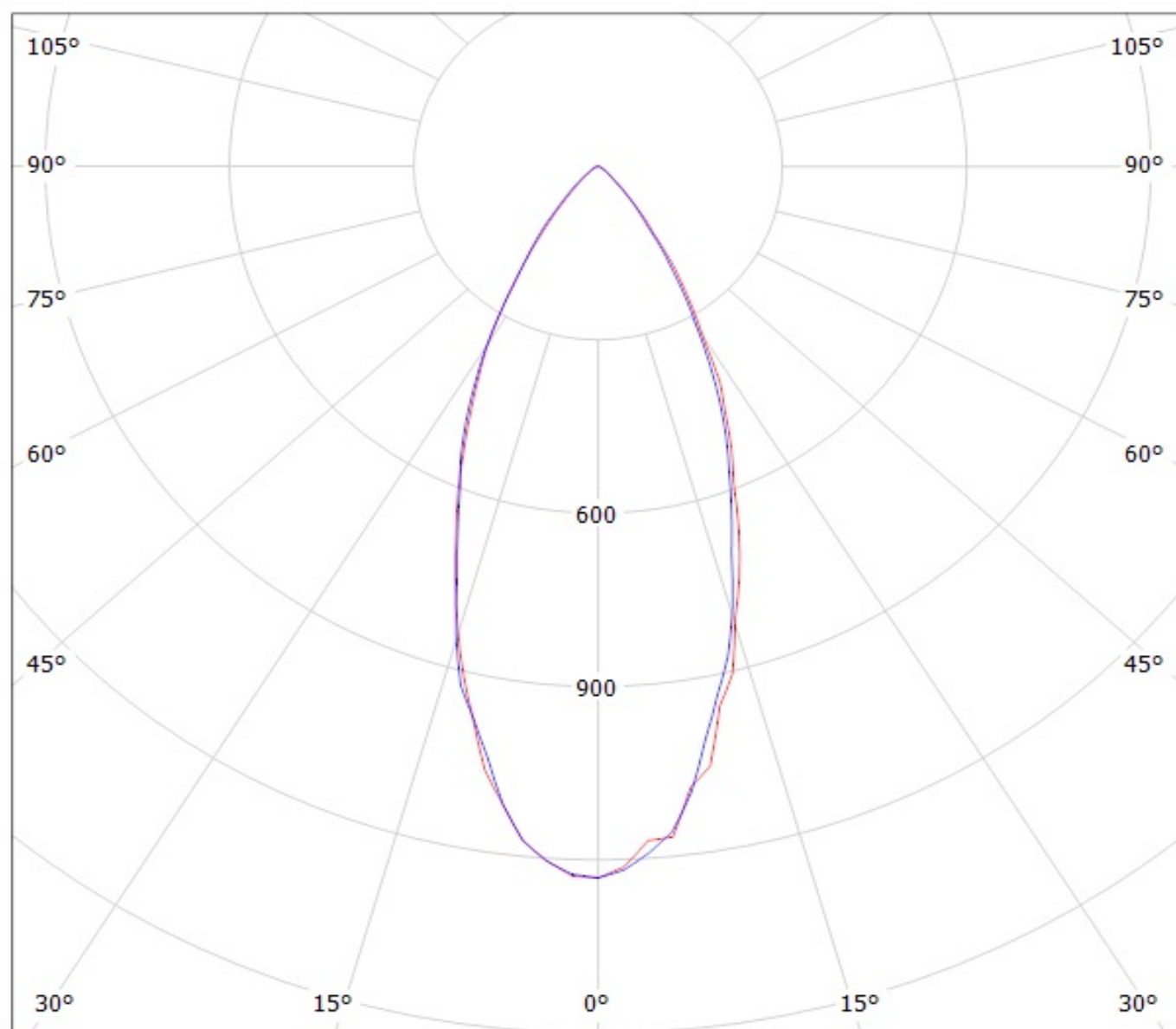
Luminaire: Ledil Oy CN12709\_LENINA-S-DL (Citizen CLL040-1818 1044lm @ 250mA) Efficiency=78%  
Lamps: 1 x Citizen CLL040-1818 1044lm @ 250mA



Luminaire: Ledil Oy CN12707\_LENINA-M (Citizen CLL040 1044lm @ 250mA) Efficiency=86%  
Lamps: 1 x Citizen CLL040 1044lm @ 250mA



Luminaire: Ledil Oy CN12710\_LENINA-M-DL (Citizen CLL040 1044lm @ 250mA) Efficiency=78%  
Lamps: 1 x Citizen CLL040 1044lm @ 250mA

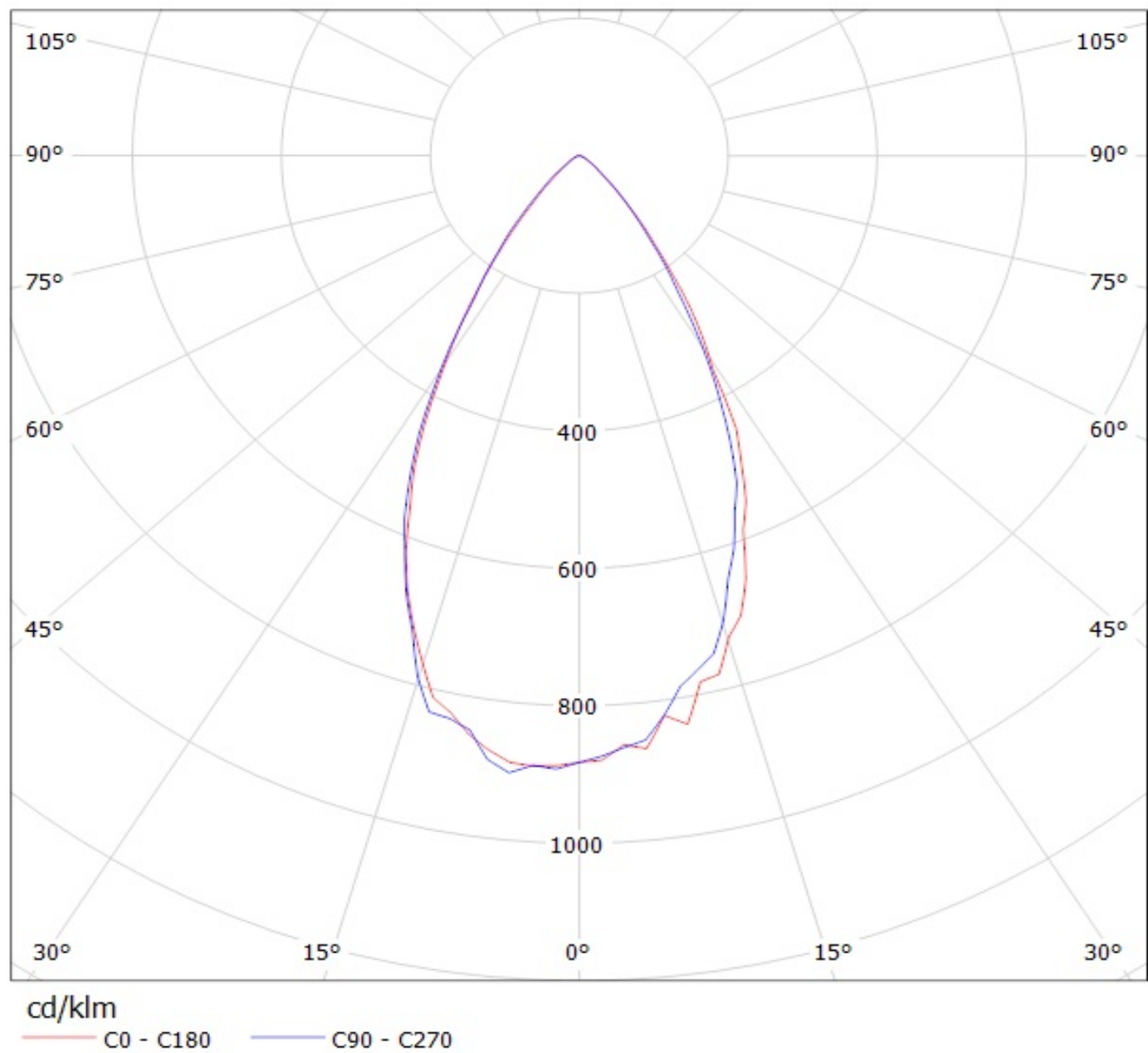


cd/klm

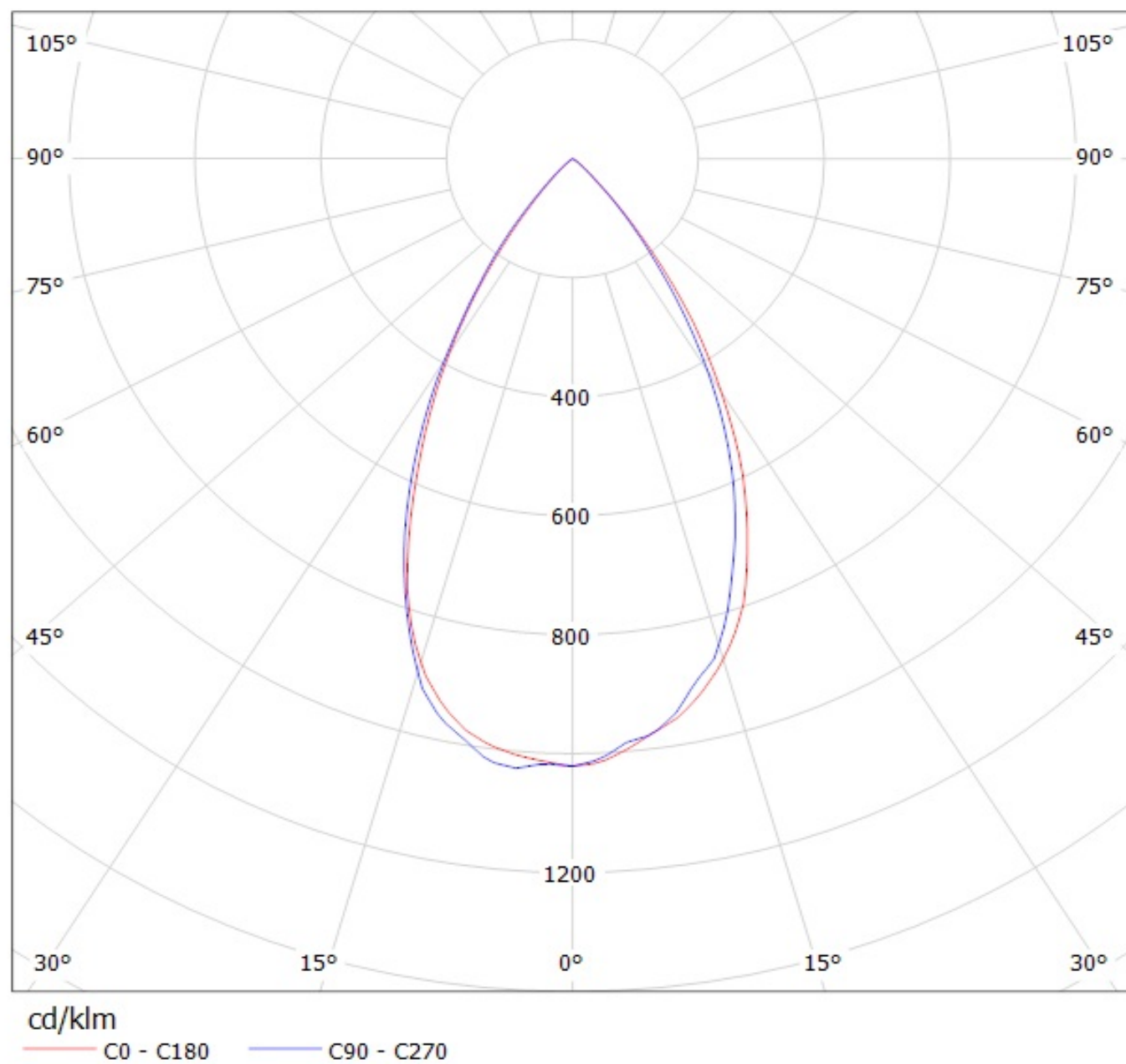
— C0 - C180

— C90 - C270

Luminaire: Ledil Oy CN12711\_LENINA-W-DL (Citizen CLL040 1044lm @ 250mA) Efficiency=76%  
Lamps: 1 x Citizen CLL040 1044lm @ 250mA



Luminaire: Ledil Oy CN12708\_LENINA-W (Citizen CLL040 1044lm @ 250mA) Efficiency=84%  
Lamps: 1 x Citizen CLL040 1044lm @ 250mA



Luminaire: LEDIL OY CN12965\_LENINA-XW Eff.88.8%  
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