

**Ordering number CN12600\_LENINA-S**

|                 |                   |             |                   |
|-----------------|-------------------|-------------|-------------------|
| Family          | Lenina            | FWHM        | 15 degrees        |
| Type            | RefPack           | Efficiency  | 88 %              |
| LED             | BXRA ES Rectangle | cd/Im       | (simulated) 0.000 |
| Color           | Metal             | Gerber File | Available         |
| Diameter        | 74 mm             |             |                   |
| Height          | 46.25 mm          |             |                   |
| Style           | Round             |             |                   |
| Optic Material  | PC                |             |                   |
| Holder Material | PC                |             |                   |
| Fastening       | Screw             |             |                   |
| Status          | On production     |             |                   |

**Ordering number CN12603\_LENINA-S-DL**

|                 |                   |             |                   |
|-----------------|-------------------|-------------|-------------------|
| Family          | Lenina            | FWHM        | 20 degrees        |
| Type            | RefPack           | Efficiency  | 80 %              |
| LED             | BXRA ES Rectangle | cd/Im       | (simulated) 0.000 |
| Color           | Metal             | Gerber File | Available         |
| Diameter        | 74 mm             |             |                   |
| Height          | 48.35 mm          |             |                   |
| Style           | Round             |             |                   |
| Optic Material  | PC                |             |                   |
| Holder Material | PC                |             |                   |
| Fastening       | Screw             |             |                   |
| Status          | On production     |             |                   |

**Ordering number CN12601\_LENINA-M**

|                 |                   |             |                   |
|-----------------|-------------------|-------------|-------------------|
| Family          | Lenina            | FWHM        | 29 degrees        |
| Type            | RefPack           | Efficiency  | 86 %              |
| LED             | BXRA ES Rectangle | cd/Im       | (simulated) 0.000 |
| Color           | Metal             | Gerber File | Available         |
| Diameter        | 74 mm             |             |                   |
| Height          | 46.25 mm          |             |                   |
| Style           | Round             |             |                   |
| Optic Material  | PC                |             |                   |
| Holder Material | PC                |             |                   |
| Fastening       | Screw             |             |                   |
| Status          | On production     |             |                   |

**Ordering number CN12604\_LENINA-M-DL**

|                 |                   |             |                   |
|-----------------|-------------------|-------------|-------------------|
| Family          | Lenina            | FWHM        | 36 degrees        |
| Type            | RefPack           | Efficiency  | 78 %              |
| LED             | BXRA ES Rectangle | cd/Im       | (simulated) 0.000 |
| Color           | Metal             | Gerber File | Available         |
| Diameter        | 74 mm             |             |                   |
| Height          | 48.35 mm          |             |                   |
| Style           | Round             |             |                   |
| Optic Material  | PC                |             |                   |
| Holder Material | PC                |             |                   |
| Fastening       | -                 |             |                   |
| Status          | On production     |             |                   |

**Ordering number CN12602\_LENINA-W**

|                 |                   |             |                   |
|-----------------|-------------------|-------------|-------------------|
| Family          | Lenina            | FWHM        | 54 degrees        |
| Type            | RefPack           | Efficiency  | 86 %              |
| LED             | BXRA ES Rectangle | cd/Im       | (simulated) 0.000 |
| Color           | Metal             | Gerber File | Available         |
| Diameter        | 74 mm             |             |                   |
| Height          | 46.25 mm          |             |                   |
| Style           | Round             |             |                   |
| Optic Material  | PC                |             |                   |
| Holder Material | PC                |             |                   |
| Fastening       | Screw             |             |                   |
| Status          | On production     |             |                   |

**Ordering number CN12605\_LENINA-W-DL**

|                 |                   |             |                   |
|-----------------|-------------------|-------------|-------------------|
| Family          | Lenina            | FWHM        | 54 degrees        |
| Type            | RefPack           | Efficiency  | 78 %              |
| LED             | BXRA ES Rectangle | cd/Im       | (simulated) 0.000 |
| Color           | Metal             | Gerber File | Available         |
| Diameter        | 74 mm             |             |                   |
| Height          | 48.35 mm          |             |                   |
| Style           | Round             |             |                   |
| Optic Material  | PC                |             |                   |
| Holder Material | PC                |             |                   |
| Fastening       | -                 |             |                   |
| Status          | On production     |             |                   |

**Ordering number CN12974\_LENINA-XW-DL**

|                 |                   |             |              |
|-----------------|-------------------|-------------|--------------|
| Family          | Lenina            | FWHM        | 72.5 degrees |
| Type            | RefPack           | Efficiency  | 84 %         |
| LED             | BXRA ES Rectangle | cd/Im       | 0.567        |
| Color           | White             | Gerber File | Available    |
| Diameter        | 74 mm             |             |              |
| Height          | 48.35 mm          |             |              |
| Style           | Round             |             |              |
| Optic Material  | PC                |             |              |
| Holder Material | PC                |             |              |
| Fastening       | Socket            |             |              |
| Status          | On production     |             |              |

Reflector twist-and-locks into included base part that holds COB in place. Base part is attached into heat sink with screws.

**Ordering number CN12960\_LENINA-XW**

|                 |                   |             |            |
|-----------------|-------------------|-------------|------------|
| Family          | Lenina            | FWHM        | 74 degrees |
| Type            | RefPack           | Efficiency  | 89 %       |
| LED             | BXRA ES Rectangle | cd/Im       | 0.611      |
| Color           | White             | Gerber File | Available  |
| Diameter        | 74 mm             |             |            |
| Height          | 46.25 mm          |             |            |
| Style           | Round             |             |            |
| Optic Material  | PC                |             |            |
| Holder Material | PC                |             |            |
| Fastening       | Socket            |             |            |
| Status          | On production     |             |            |

Reflector twist-and-locks into included base part that holds COB in place. Base part is attached into heat sink with screws.



**PRODUCT DATASHEET**  
**Lenina series**  
last update 18/3/2013



**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 18/3/2013



#### GENERAL INFORMATION

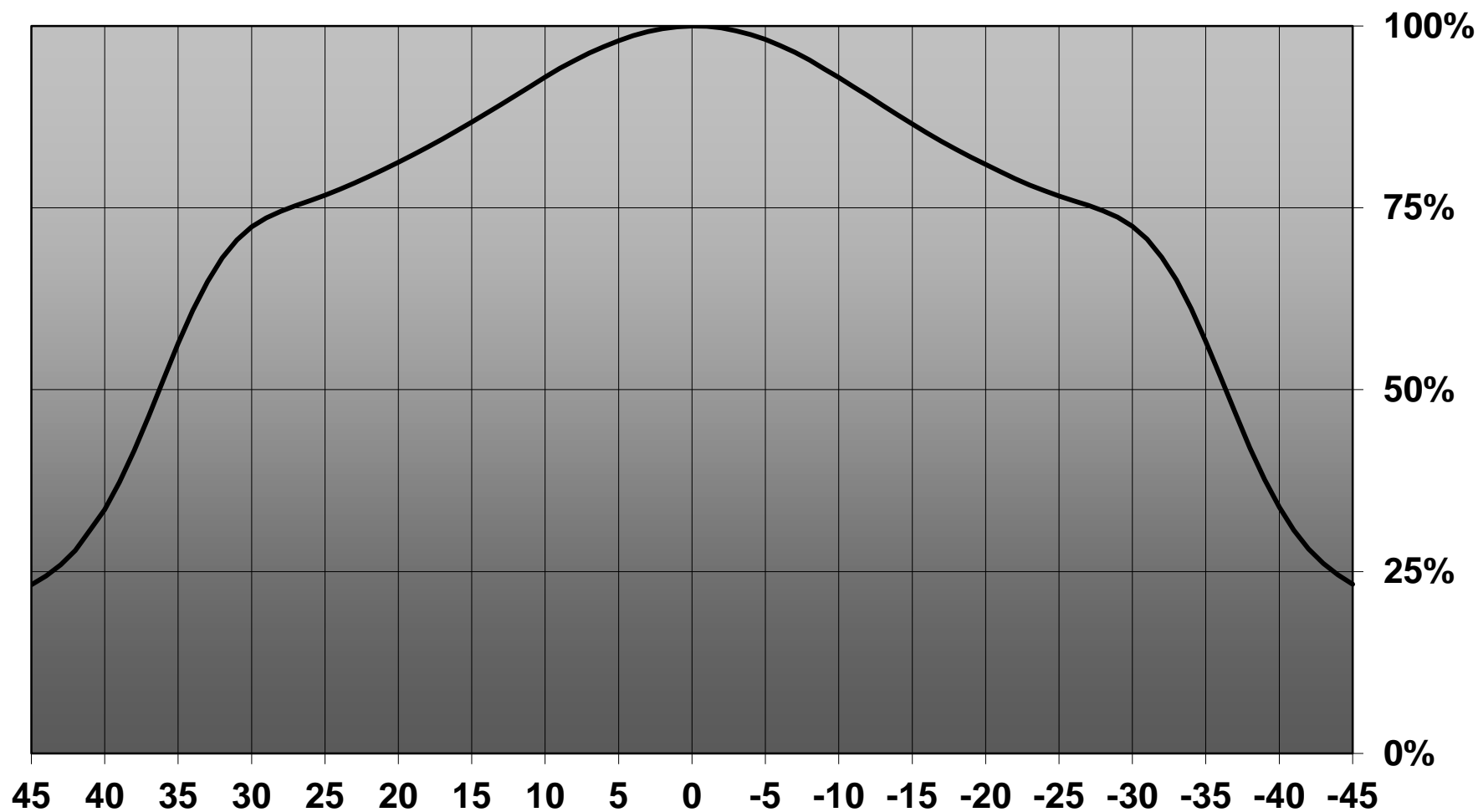
- Product series especially designed & optimized for BXRA ES Rectangle series of LEDs.
- Special care taken to make light distribution as uniform as possible.
- Lens material optical grade PC with high UV and temperature resistance (120 degrees of Celcius / 248 degrees of Fahrenheit). Allows use of high current and temperature conditions.

Please find more information about used materials from below:

[http://ledil.fi/sites/default/files/Documents/Technical/Material/PC%20Makrolon%202400\\_2407\\_2456\\_2458-UL.pdf](http://ledil.fi/sites/default/files/Documents/Technical/Material/PC%20Makrolon%202400_2407_2456_2458-UL.pdf)

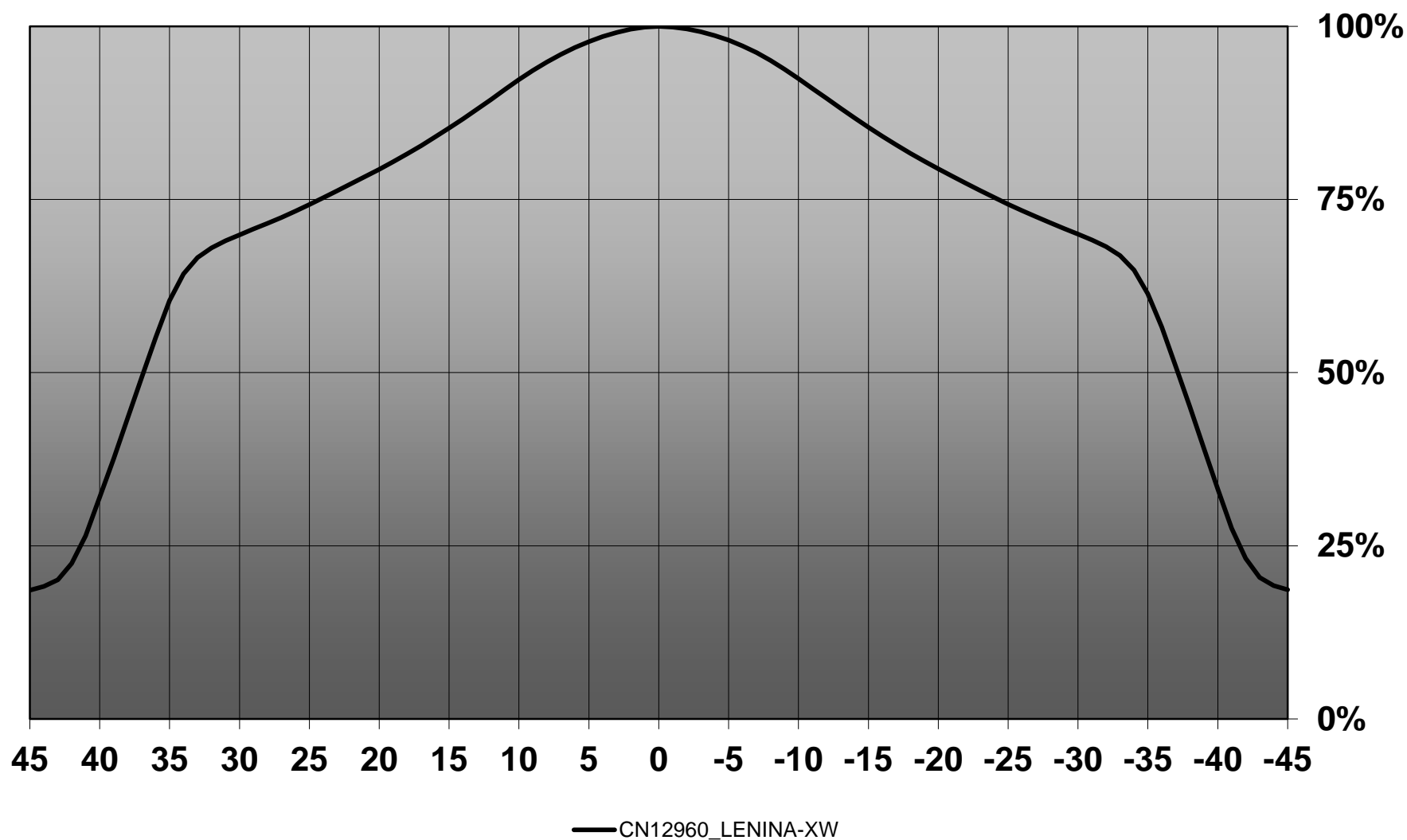
- Reflector is made of aluminium coated PC (120 degrees of Celcius / 248 degrees of Fahrenheit) with protective lacquer (short term 100 degrees of Celcius / 212 degrees of Fahrenheit).
- Optic holder molded by high quality PC material (120 dergees of Celcius / 248 degrees of Fahrenheit).

# Absolute intensity of CN12974\_LENINA-XW-DL



— CN12974\_LENINA-XW-DL

**Absolute intensity of CN12960\_LENINA-XW**



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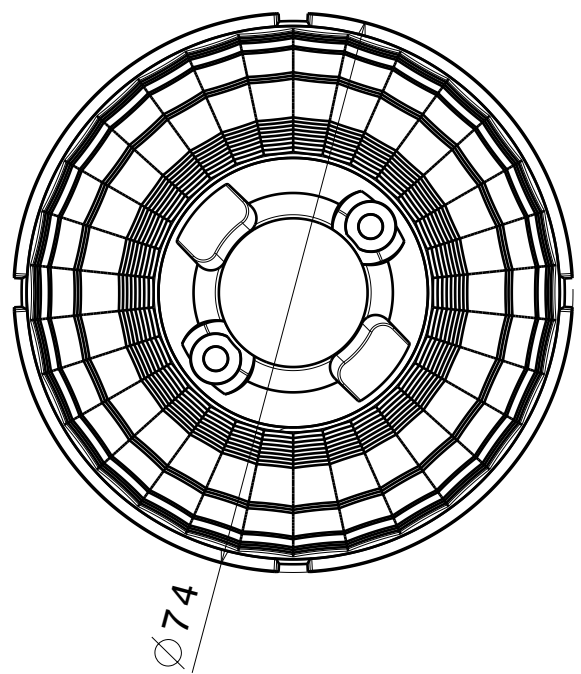
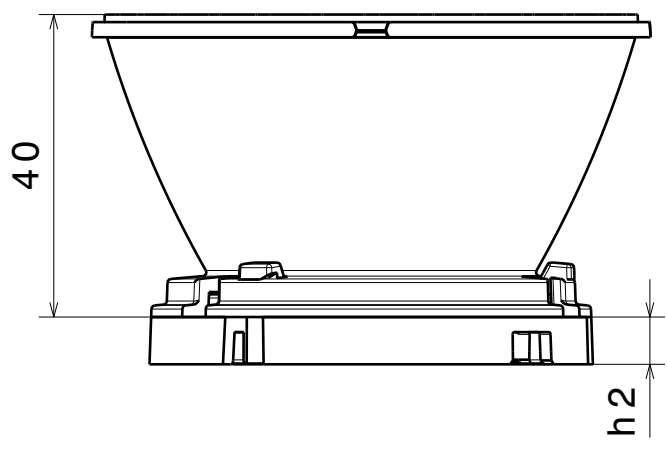
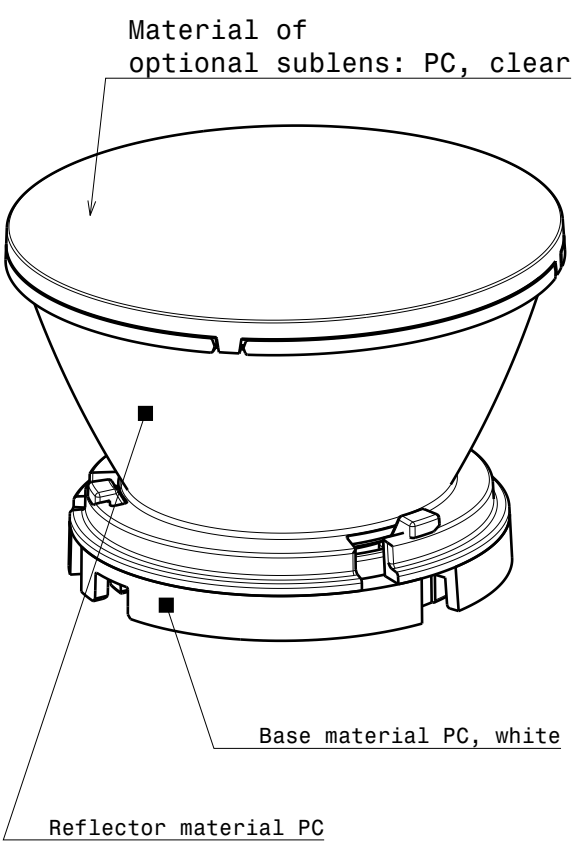
4

3

3

2

2



**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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Ledil Oy  
Salorankatu 10  
FIN-24240 SALO  
Finland

**DRAWING TITLE**

**Datasheet Lenina series**

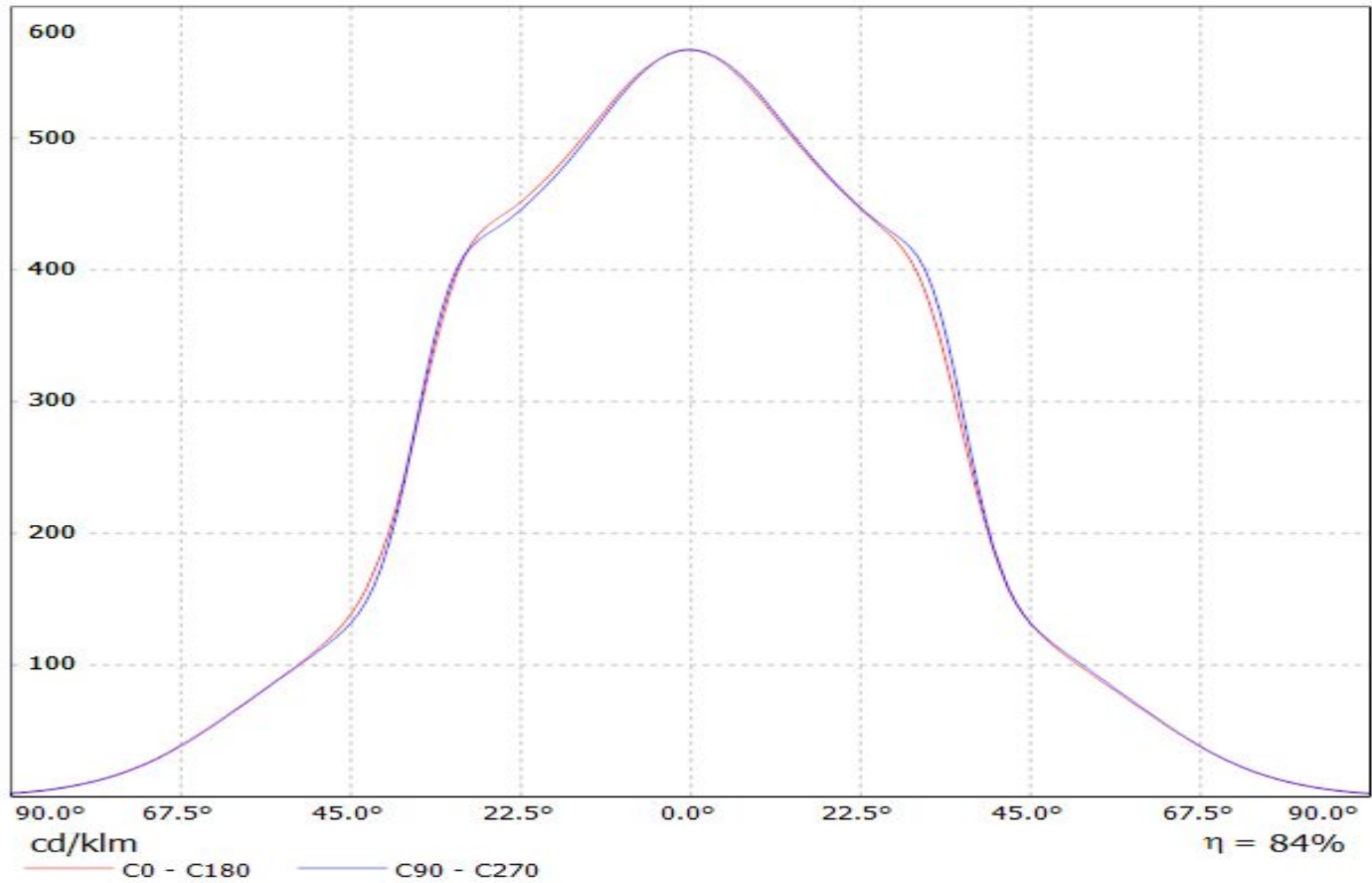
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| DRAWN BY    |  | DATE       |  | DRAWING TITLE<br><br>Datasheet Lenina series |                |       |     |
| ks          |  | 23.04.2014 |  |  |                |       |     |
| CHECKED BY  |  | DATE       |  | SIZE   | DRAWING NUMBER |       | REV |
|             |  |            |  | A4   | --             |       | 1   |
| DESIGNED BY |  | DATE       |  | SCALE  |                | SHEET |     |
| p1          |  | 08.03.2012 |  | 1:1  |                | 1 / 1 |     |
|             |  |            |  | WEIGHT (g)                                   |                |       |     |

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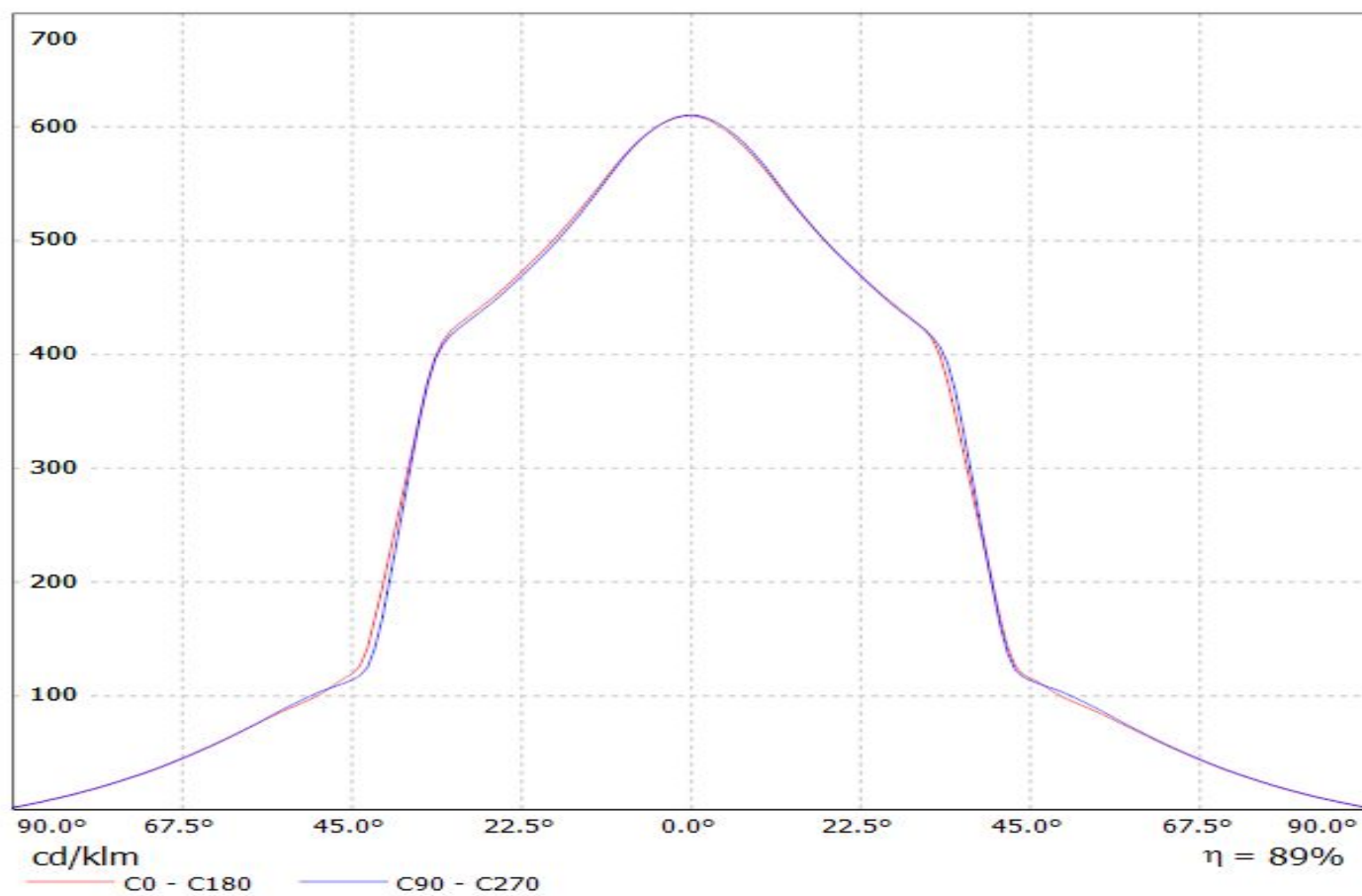
D A

Luminaire: LEDIL OY CN12974\_LENINA-XW-DL Eff.84.2%  
Lamps: 1 x BXRA ES Rectangle (790.36lm@250mA)

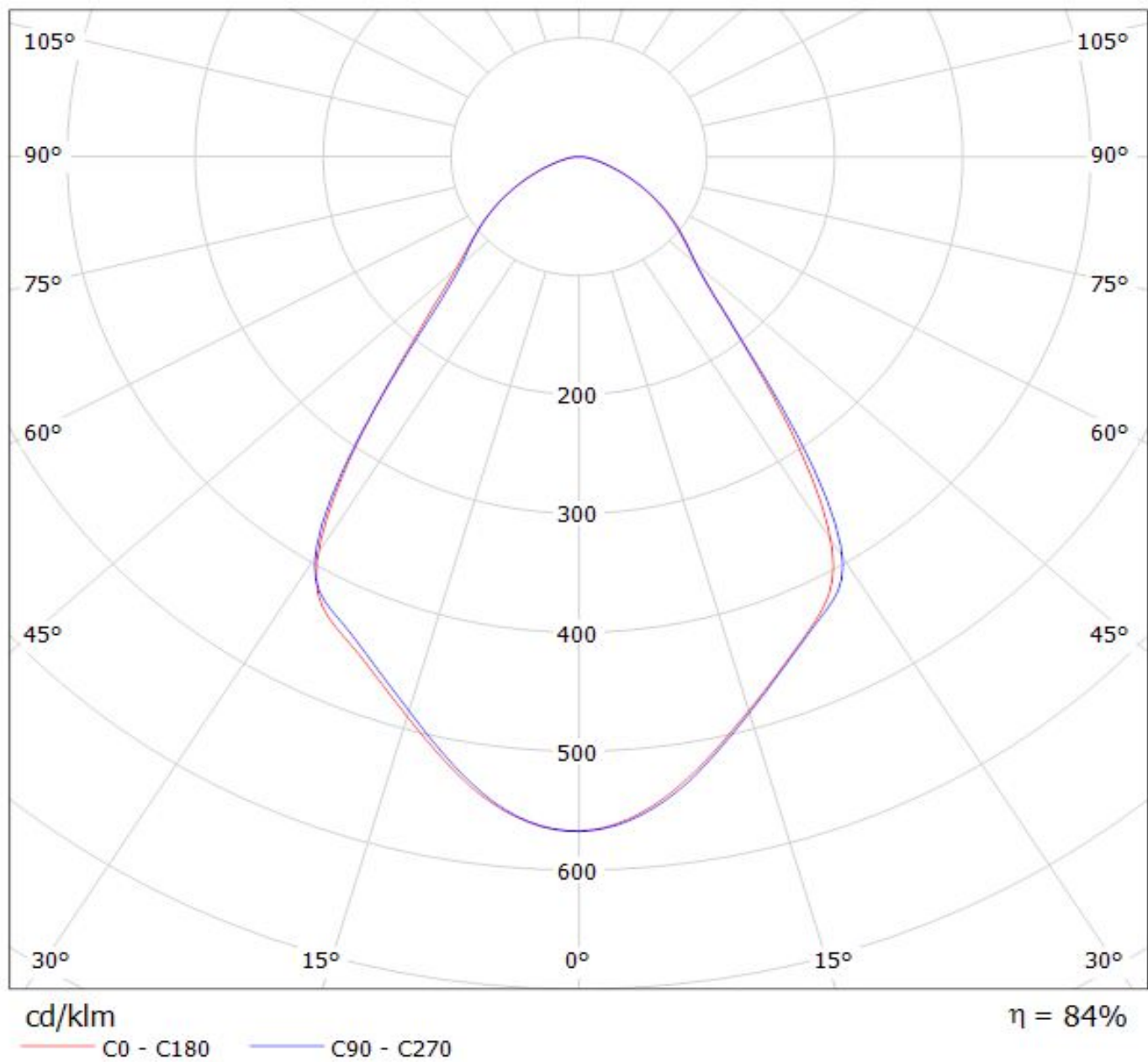




Luminaire: LEDIL OY CN12960\_LENINA-XW Eff.88,8%  
Lamps: 1 x BXRA ES Rectangle (790.36lm@250mA)



Luminaire: LEDIL OY CN12974\_LENINA-XW-DL Eff.84.2%  
Lamps: 1 x BXRA ES Rectangle (790.36lm@250mA)



Luminaire: LEDIL OY CN12960\_LENINA-XW Eff.88,8%  
Lamps: 1 x BXRA ES Rectangle (790.36lm@250mA)

