

**Product number CN13344\_LENINA-S**

Family Lenina  
Type RefPack  
LED CXA25xx  
Color Metal  
Diameter 74 mm  
Height 47.3 mm  
Style Round  
Optic Material PC  
Holder Material PC  
Fastening Socket  
Status On production

FWHM 22 degrees  
Efficiency 86 %  
cd/Im 3.200  
Gerber File Available

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

**Product number CN13347\_LENINA-S-DL**

Family Lenina  
Type RefPack  
LED CXA25xx  
Color Metal  
Diameter 74 mm  
Height 49.4 mm  
Style Round  
Optic Material PC  
Holder Material PC  
Fastening Socket  
Status On production

FWHM 23 degrees  
Efficiency 78 %  
cd/Im 2.700  
Gerber File Available

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

**Product number CN13345\_LENINA-M**

Family Lenina  
Type RefPack  
LED CXA25xx  
Color Metal  
Diameter 74 mm  
Height 47.3 mm  
Style Round  
Optic Material PC  
Holder Material PC  
Fastening Socket  
Status On production

FWHM 33 degrees  
Efficiency 86 %  
cd/Im 1.900  
Gerber File Available

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

**Product number CN13348\_LENINA-M-DL**

Family Lenina  
Type RefPack  
LED CXA25xx  
Color Metal  
Diameter 74 mm  
Height 49.4 mm  
Style Round  
Optic Material PC  
Holder Material PC  
Fastening Socket  
Status On production

FWHM 35 degrees  
Efficiency 78 %  
cd/Im 1.600  
Gerber File Available

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

**Product number CN13346\_LENINA-W**

Family Lenina  
Type RefPack  
LED CXA25xx  
Color Metal  
Diameter 74 mm  
Height 47.3 mm  
Style Round  
Optic Material PC  
Holder Material PC  
Fastening Socket  
Status On production

FWHM 51 degrees  
Efficiency 84 %  
cd/lm 1.200  
Gerber File Available

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

**Product number CN13349\_LENINA-W-DL**

Family Lenina  
Type RefPack  
LED CXA25xx  
Color Metal  
Diameter 74 mm  
Height 49.4 mm  
Style Round  
Optic Material PC  
Holder Material PC  
Fastening Socket  
Status On production

FWHM 52 degrees  
Efficiency 76 %  
cd/lm 1.100  
Gerber File Available

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

**Product number CN13351\_LENINA-XW**

Family Lenina  
Type RefPack  
LED CXA25xx  
Color White  
Diameter 74 mm  
Height 47.3 mm  
Style Round  
Optic Material PC  
Holder Material PC  
Fastening Socket, screw  
Status On production

FWHM 70 degrees  
Efficiency 89 %  
cd/lm 0.700  
Gerber File Available

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

**Product number CN13352\_LENINA-XW-DL**

Family Lenina  
Type RefPack  
LED CXA25xx  
Color White  
Diameter 74 mm  
Height 47.3 mm  
Style Round  
Optic Material PC  
Holder Material PC  
Fastening Socket  
Status On production

FWHM 70 degrees  
Efficiency 84 %  
cd/lm 0.600  
Gerber File Available

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 2/5/2013



**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 2/5/2013



#### GENERAL INFORMATION

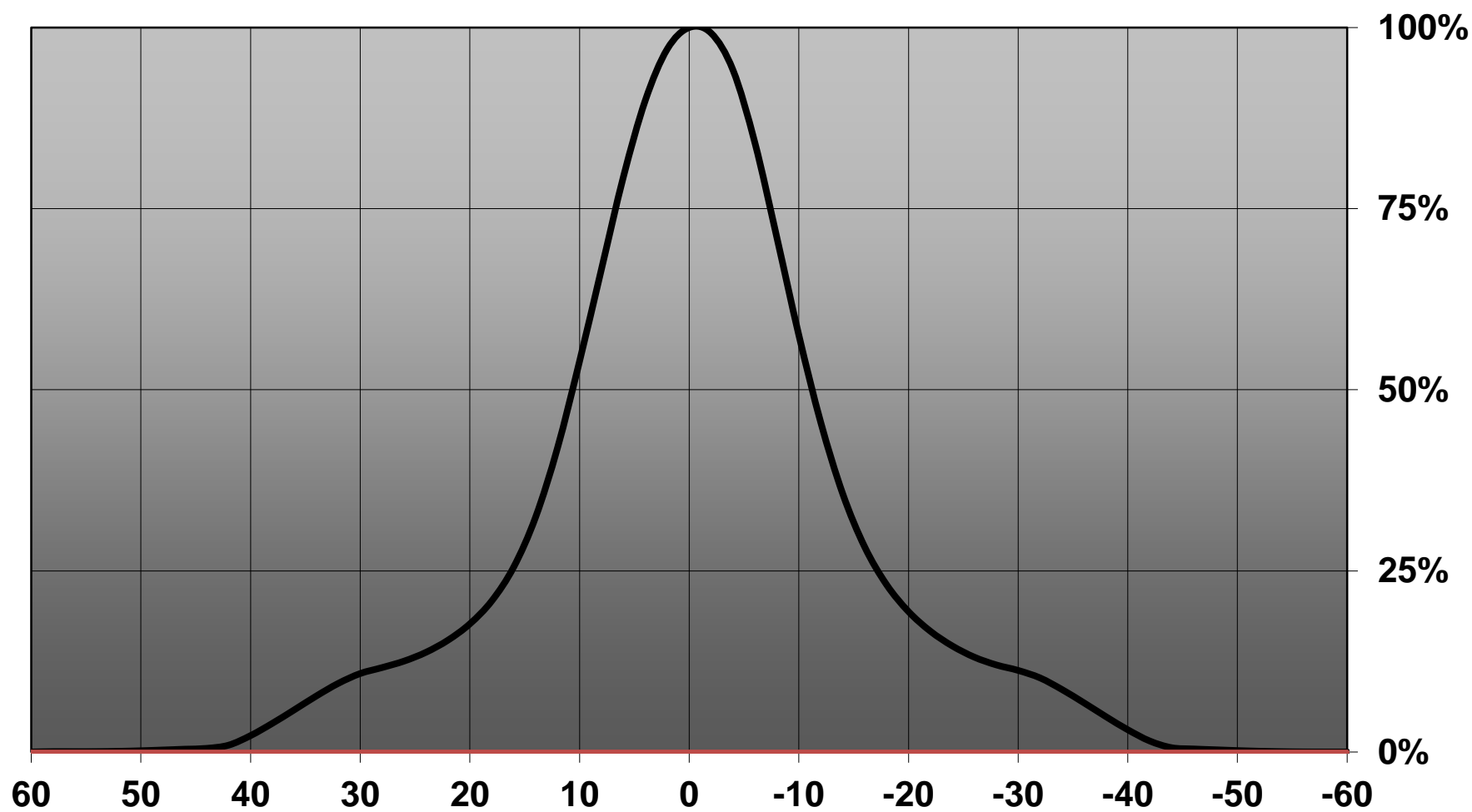
- Product series especially designed & optimized for CXA25xx series of LEDs.
- Special care taken to make light distribution as uniform as possible.
- Lens material optical grade PC with high UV and temperature resistance (120 degrees of Celcius / 248 degrees of Fahrenheit). Allows use of high current and temperature conditions.

Please find more information about used materials from below:

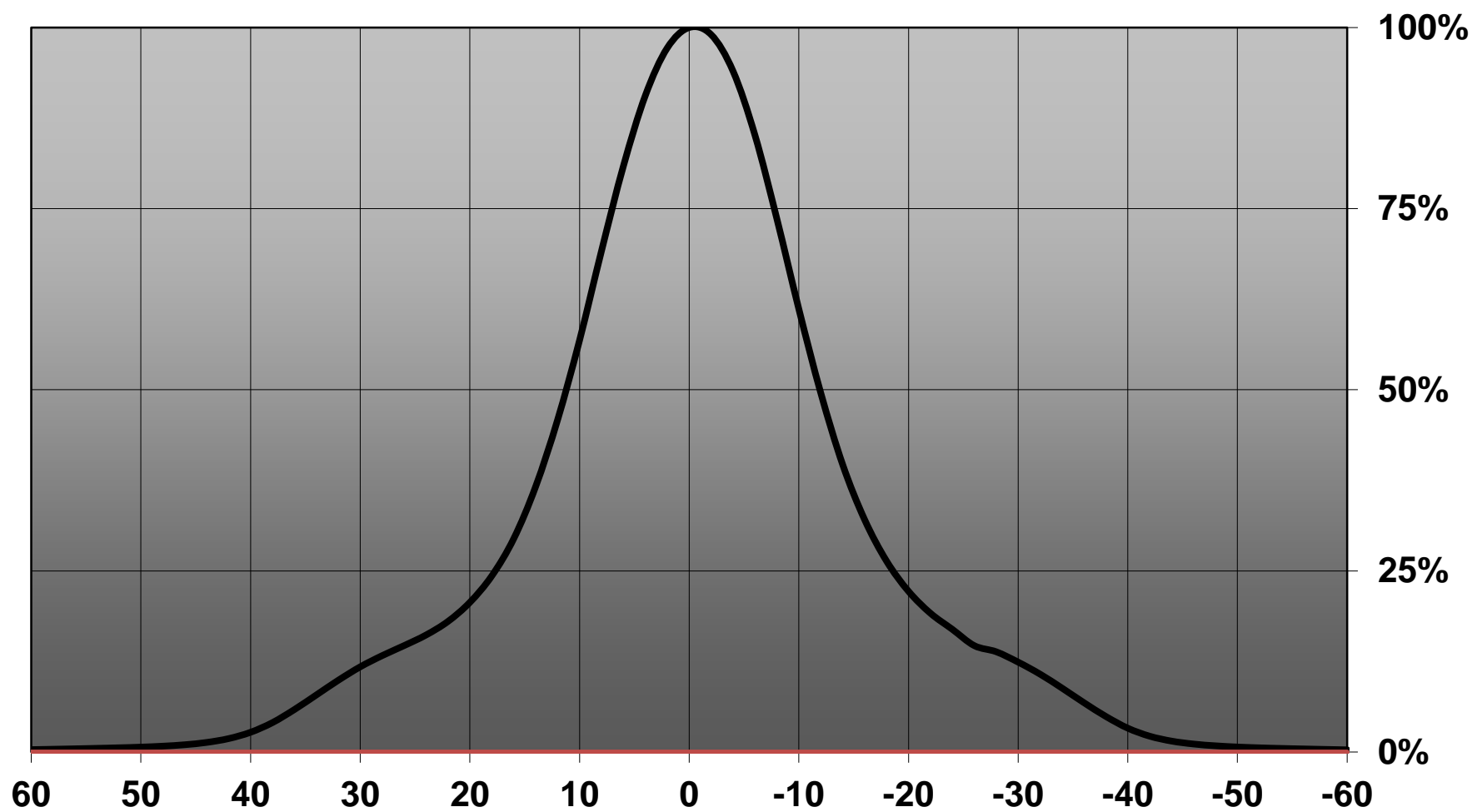
[http://ledil.fi/sites/default/files/Documents/Technical/Material/PC%20Makrolon%202400\\_2407\\_2456\\_2458-UL.pdf](http://ledil.fi/sites/default/files/Documents/Technical/Material/PC%20Makrolon%202400_2407_2456_2458-UL.pdf)

- 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).

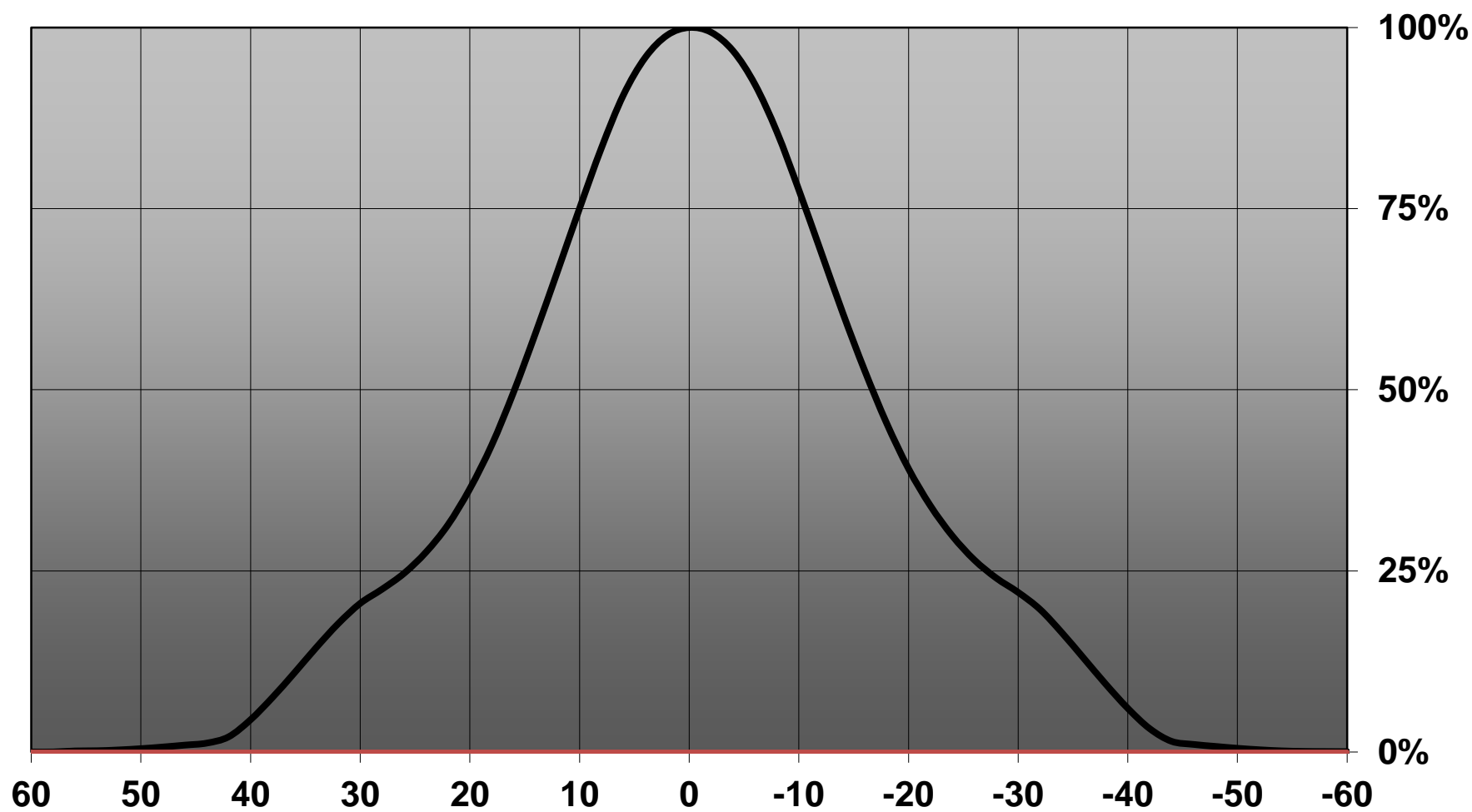
Relative intensity of CN13344\_LENINA-S-CXA25



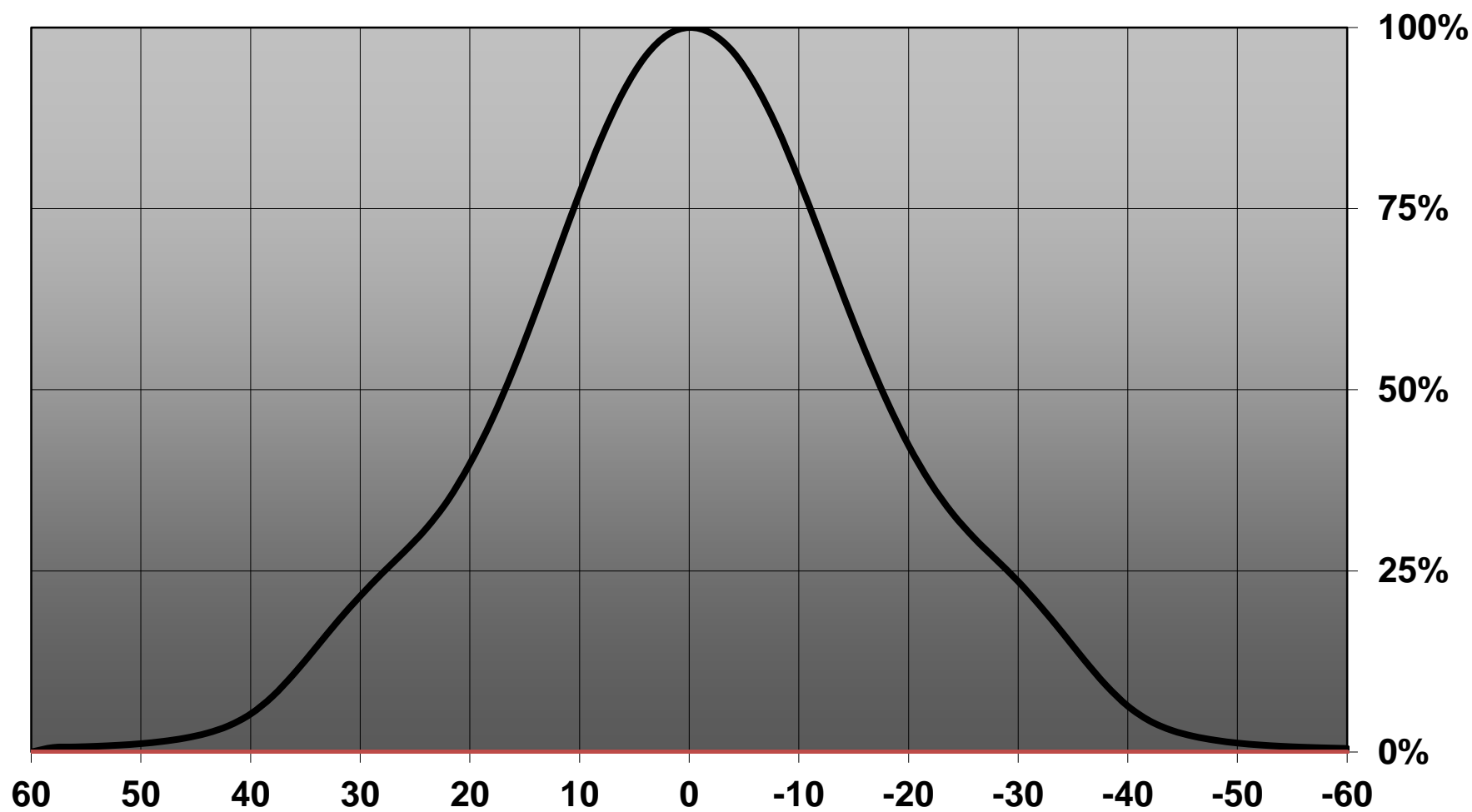
Relative intensity of CN13347\_LENINA-S-DL-CXA25



Relative intensity of CN13345\_LENINA-M-CXA25

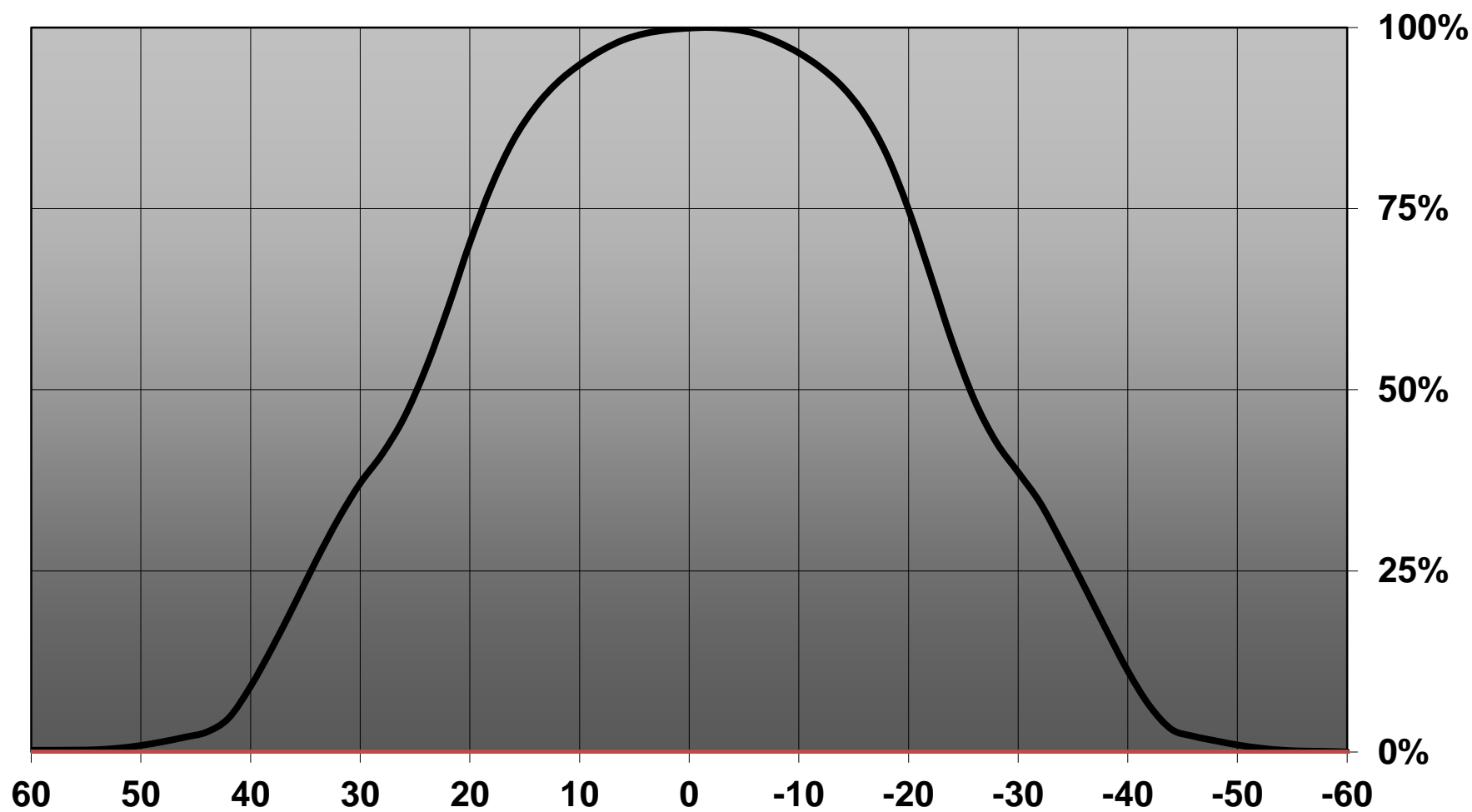


Relative intensity of CN13348\_LENINA-M-DL-CXA25

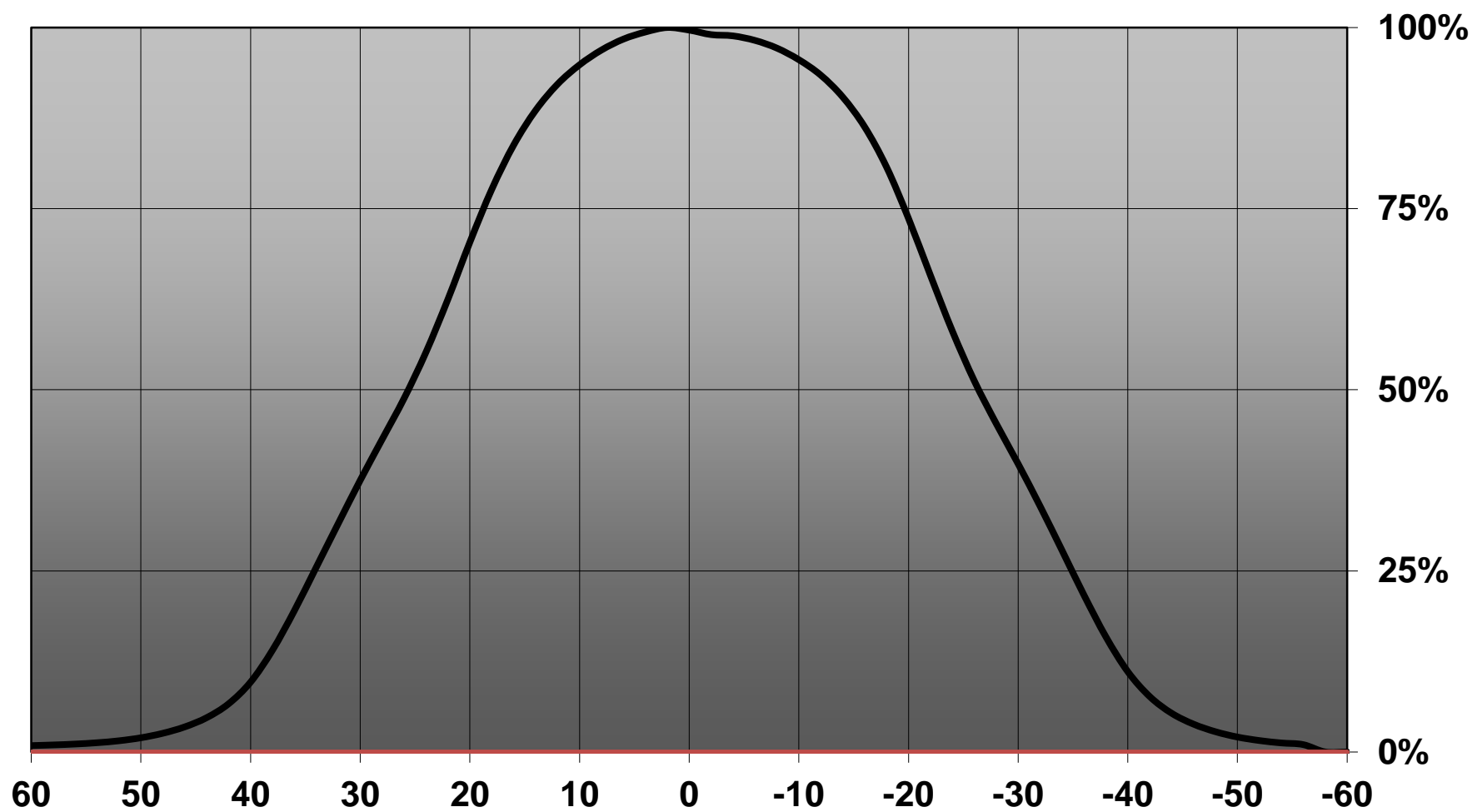




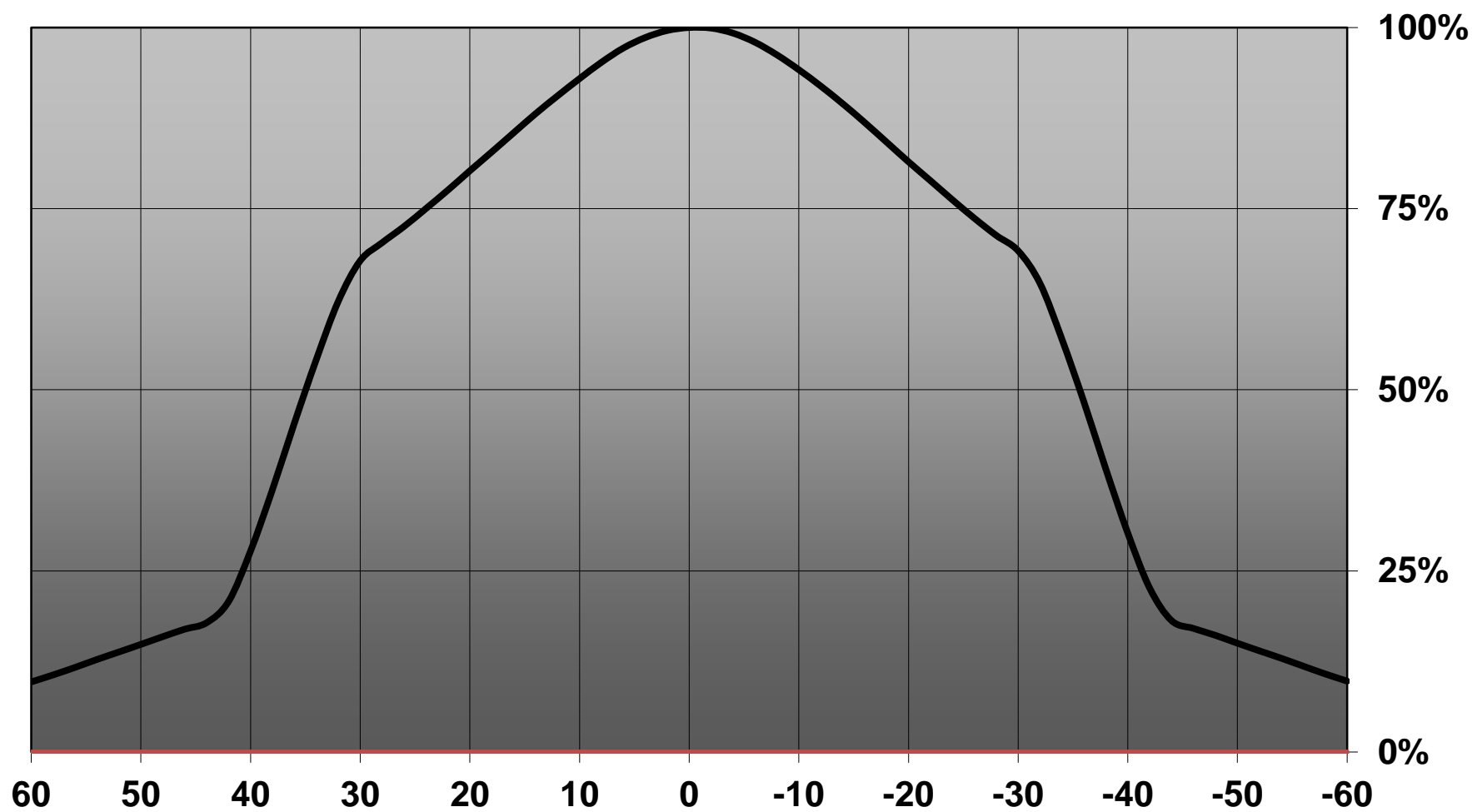
Relative intensity of CN13346\_LENINA-W-CXA25



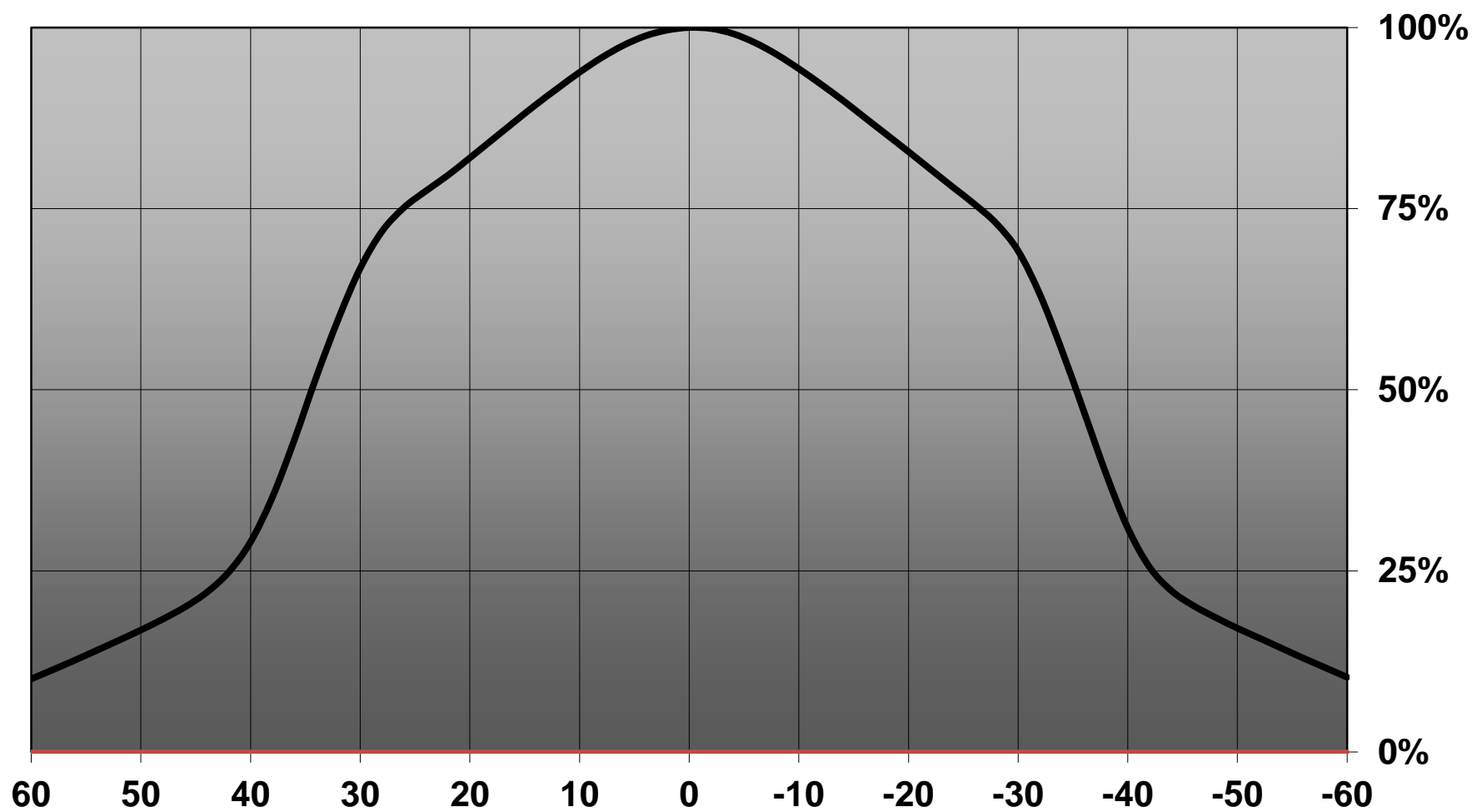
Relative intensity of CN13349\_LENINA-W-DL-CXA25



Relative intensity of CN13351\_LENINA-XW-CXA25



Relative intensity of CN13352\_LENINA-XW-DL-CXA25



D C B A

4

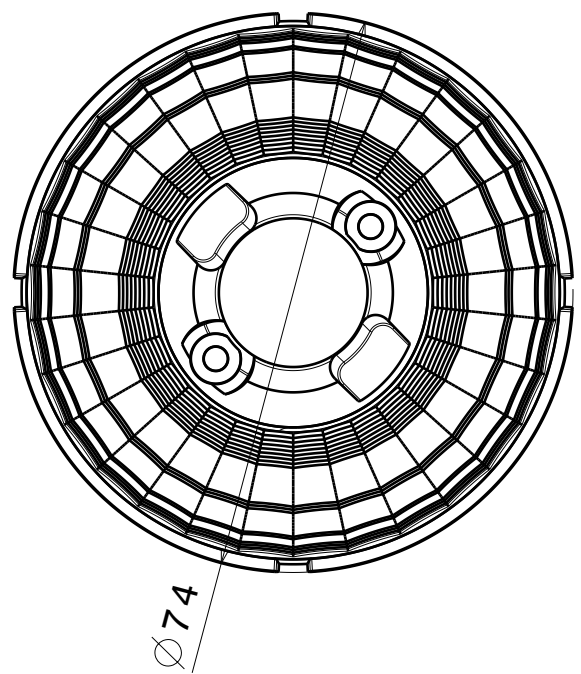
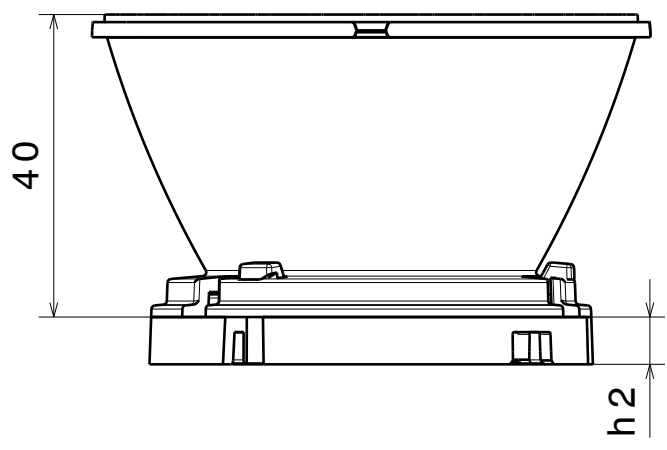
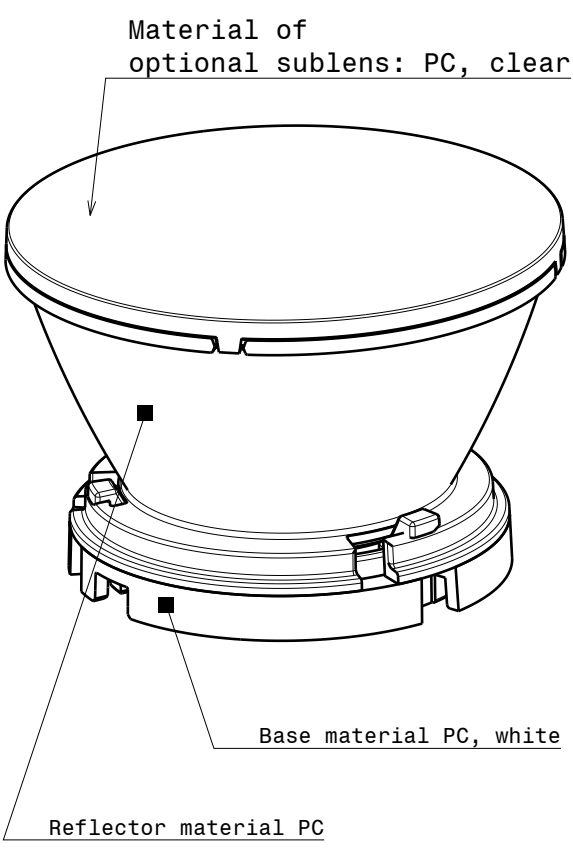
4

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**

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

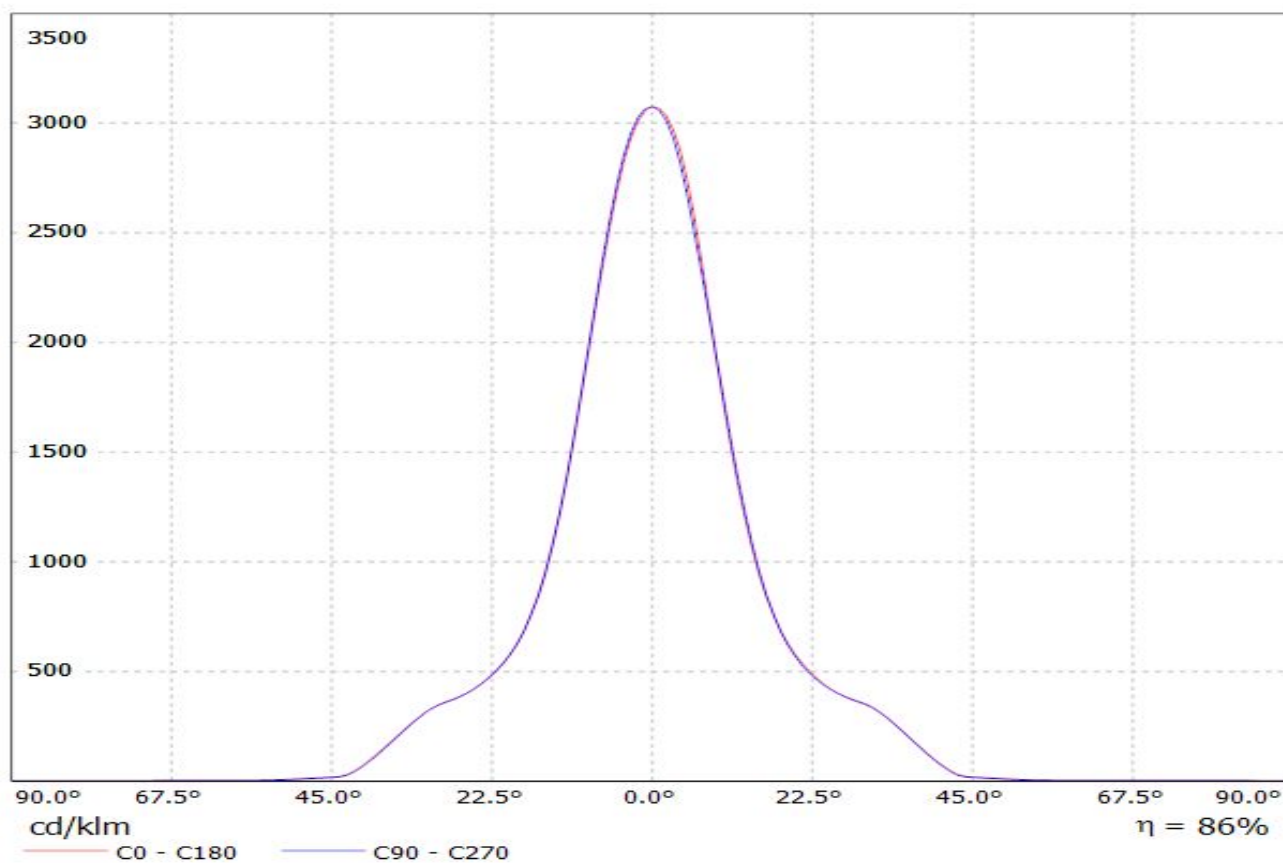
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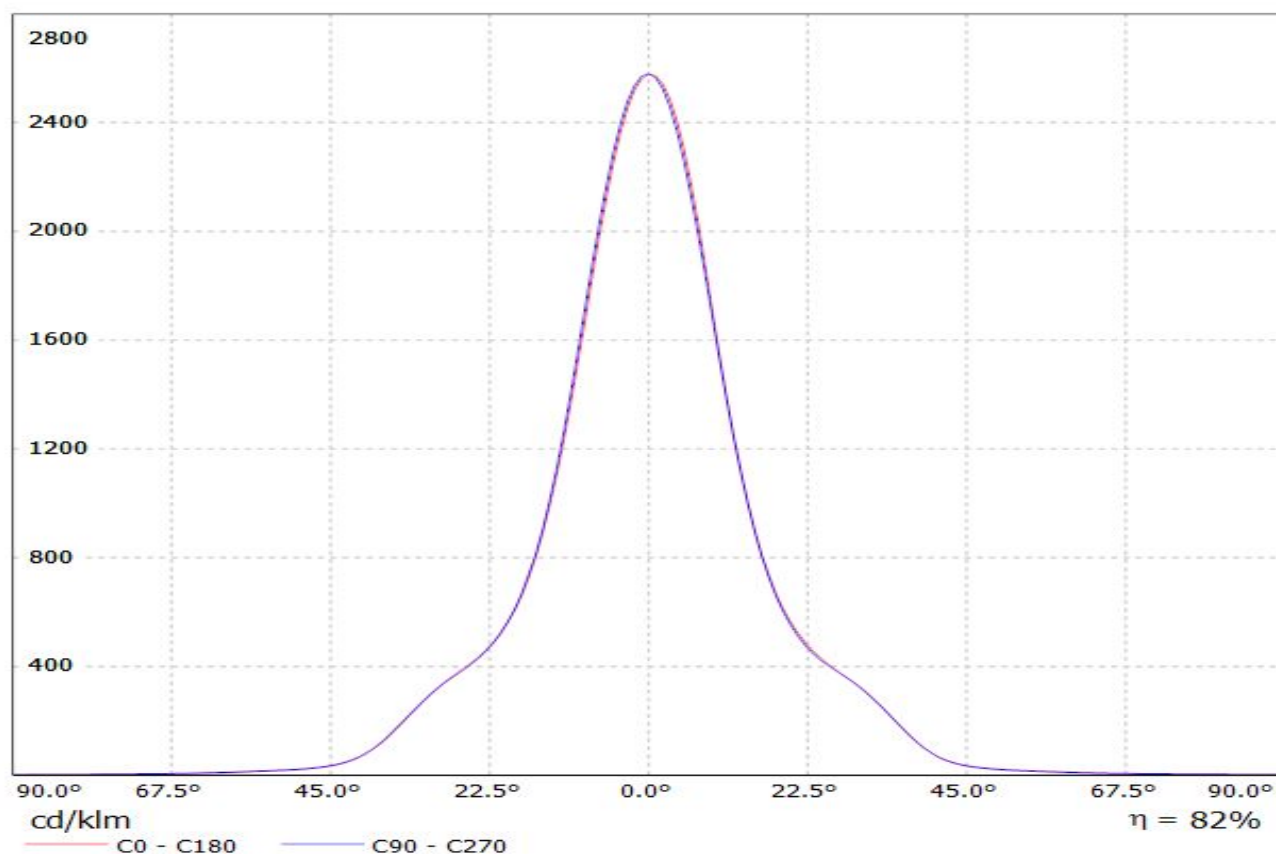
D A

Luminaire: LEDiL Oy CN13344\_LENINA-S\_(CXA25) Eff.86.4%

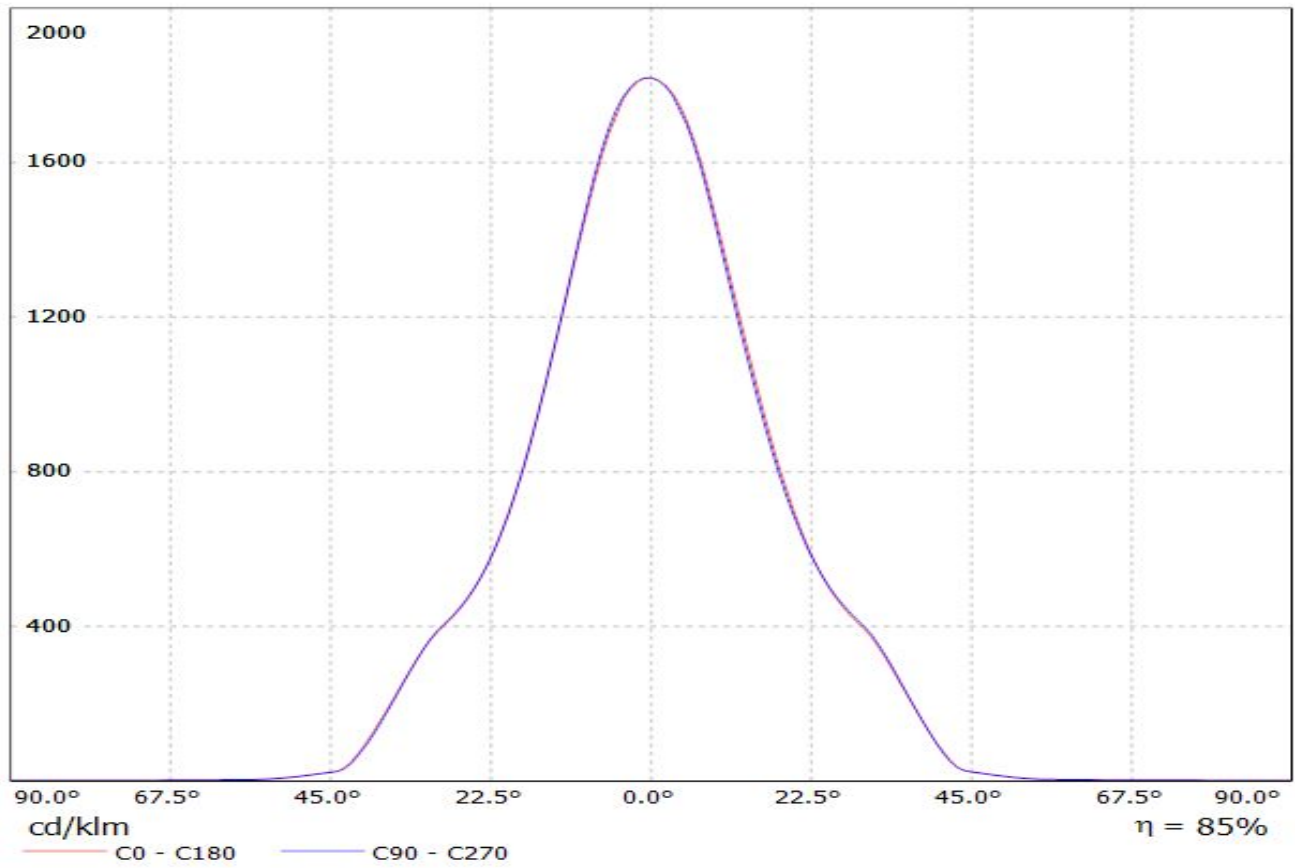
Lamps: 1 x CREE\_CXA25\_(2520-7A-N4-N0U) 888.265lm@250mA CCT=3000K P=8.58457W I=249.9mA



Luminaire: LEDiL Oy CN13347\_LENINA-S-DL\_(CXA25) Eff.81.6%  
Lamps: 1 x CREE\_CXA25\_(2520-7A-N4-N0U) 888.265lm@250mA CCT=3000K P=8.58457W I=249.9mA

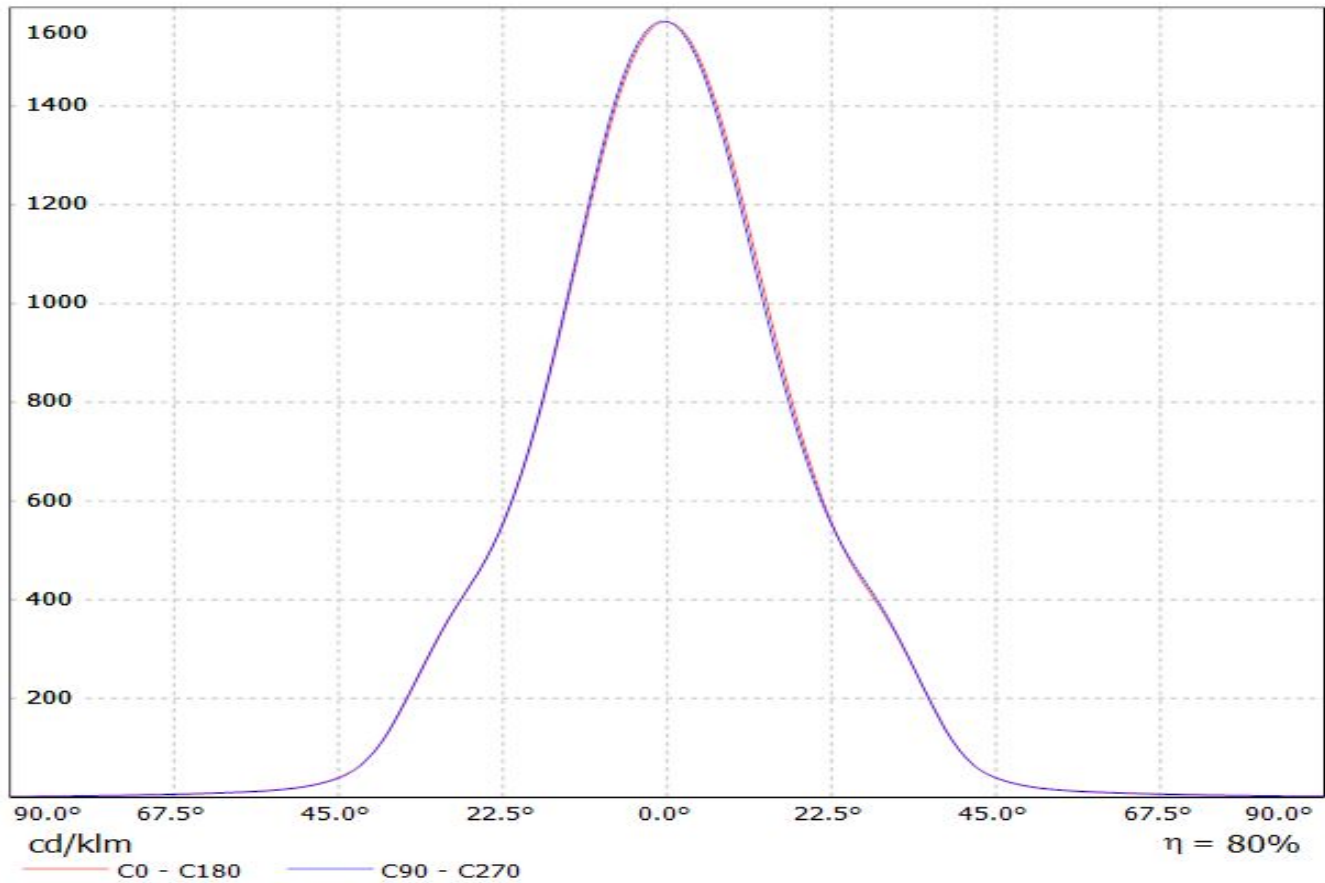


Luminaire: LEDiL Oy CN13345\_LENINA-M\_(CXA25) Eff.85.4%  
Lamps: 1 x CREE\_CXA25\_(2520-7A-N4-N0U) 888.265lm@250mA CCT=3000K P=8.58457W I=249.9mA

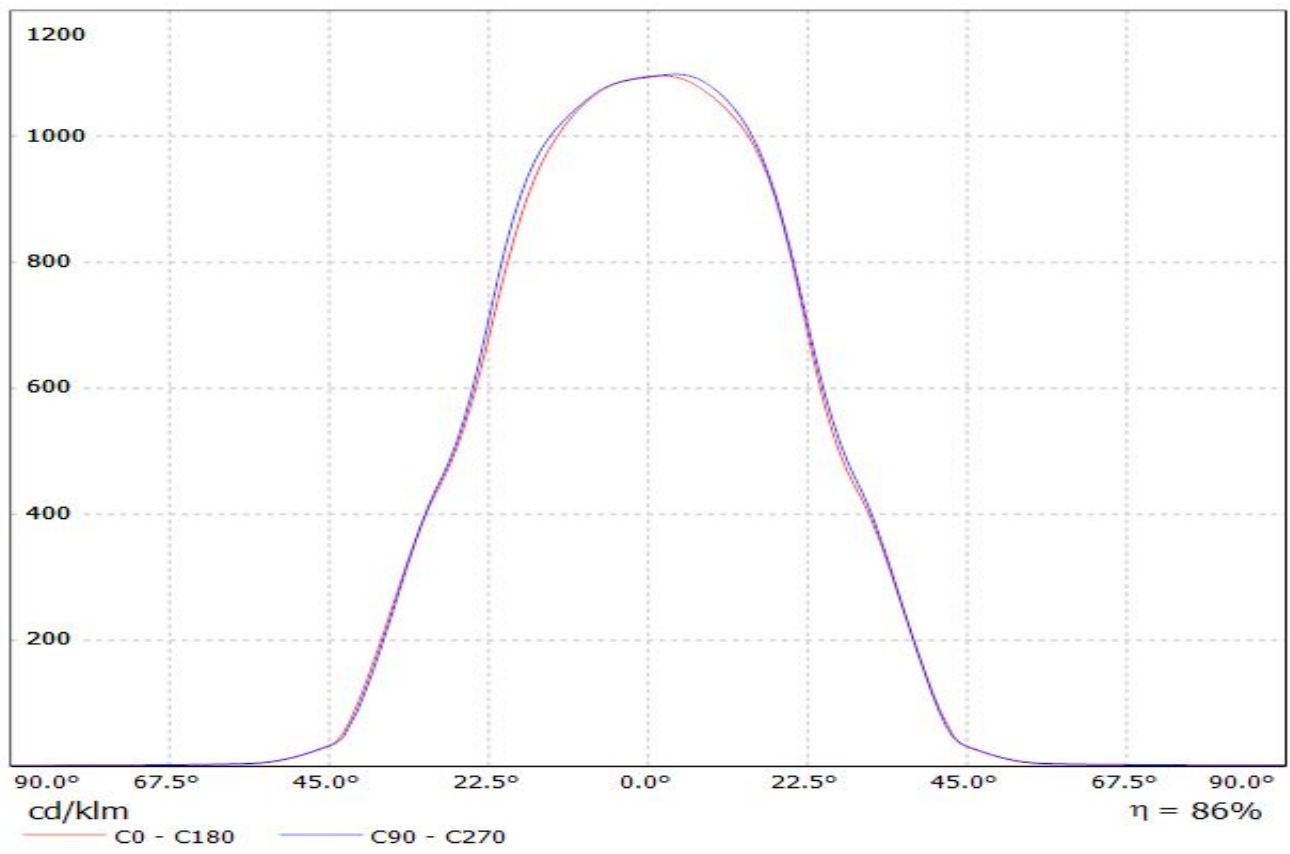




Luminaire: LEDiL Oy CN13348\_LENINA-M-DL\_(CXA25) Eff.80.3%  
Lamps: 1 x CREE\_CXA25\_(2520-7A-N4-N0U) 888.265lm@250mA CCT=3000K P=8.58457W I=249.9mA

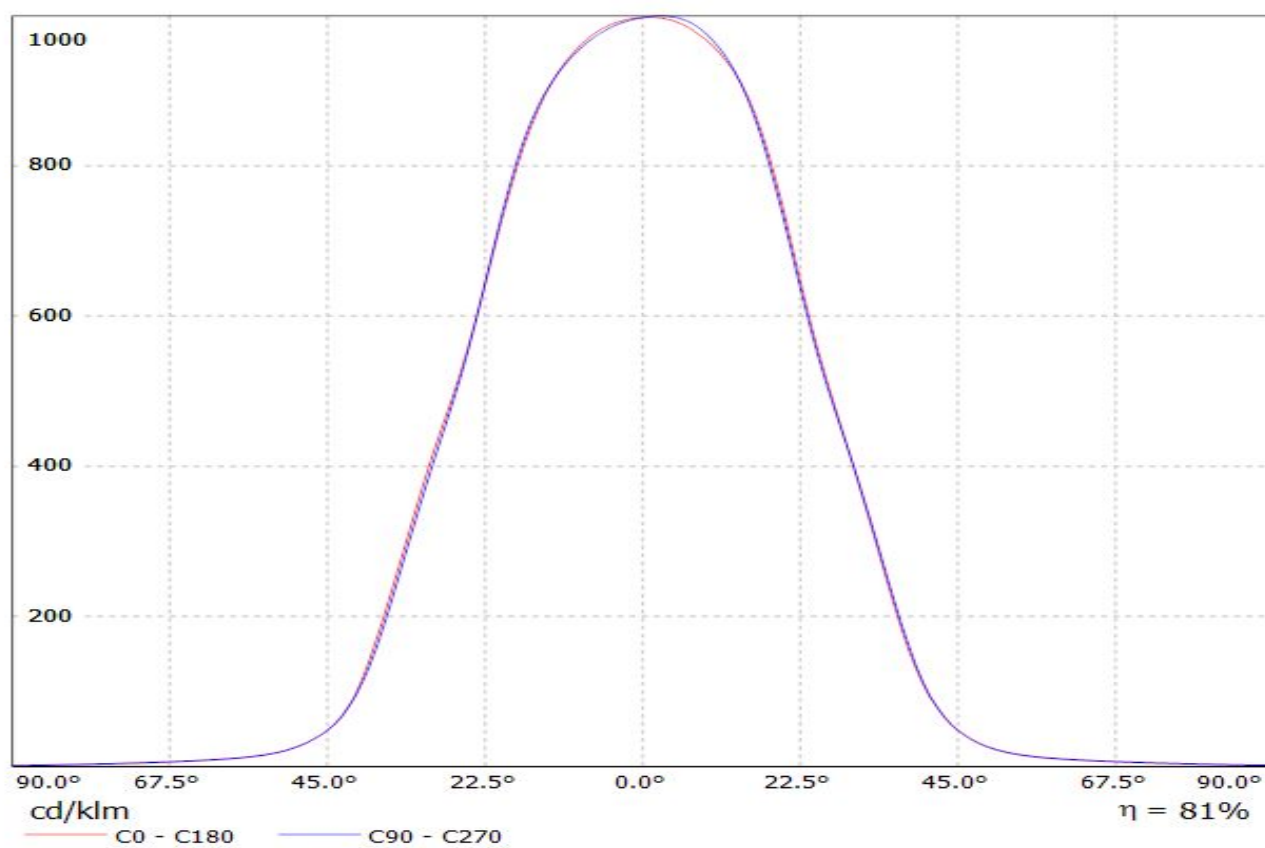


Luminaire: LEDiL Oy CN13346\_LENINA-W\_(CXA25) Eff.86.0%  
Lamps: 1 x CREE\_CXA25\_(2520-7A-N4-N0U) 888.265lm@250mA CCT=3000K P=8.58457W I=249.9mA

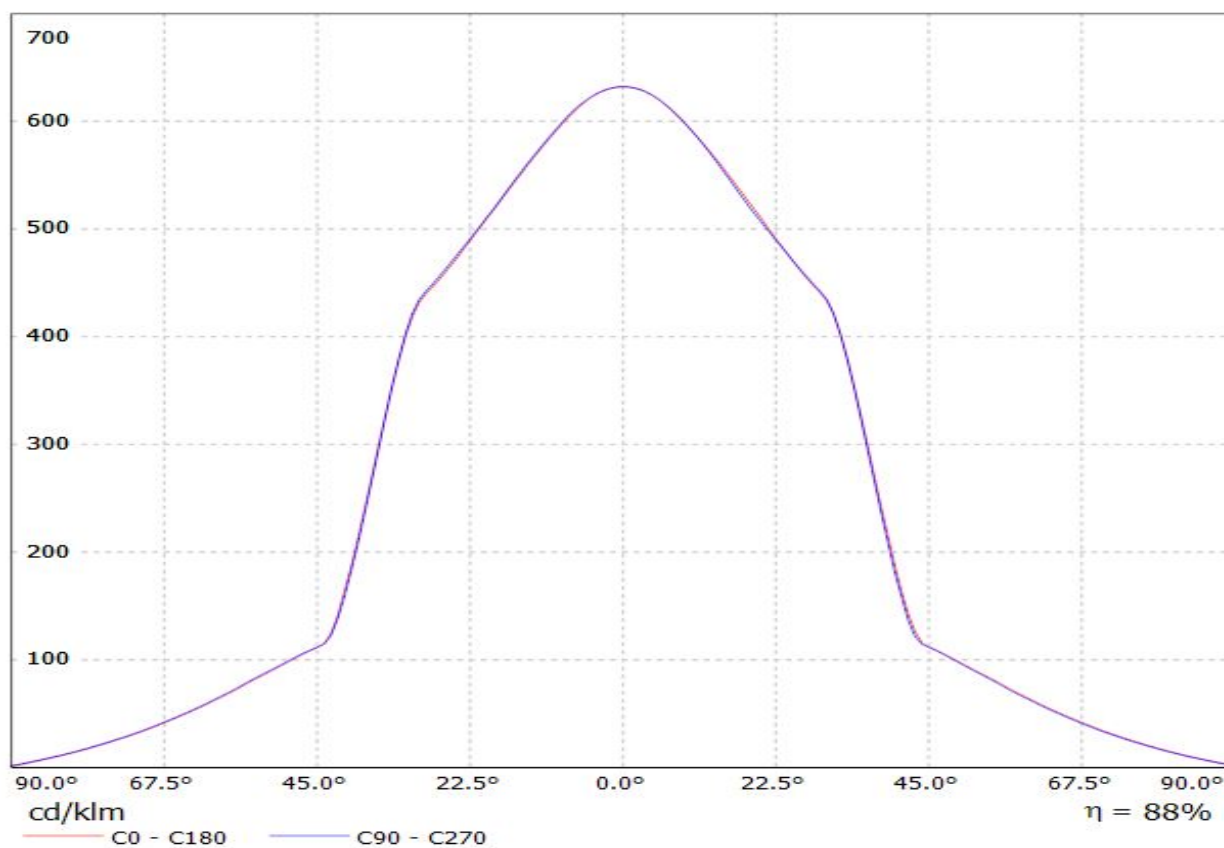


Luminaire: LEDiL Oy CN13349 LENINA-W-DL (CXA25) Eff 81.4%

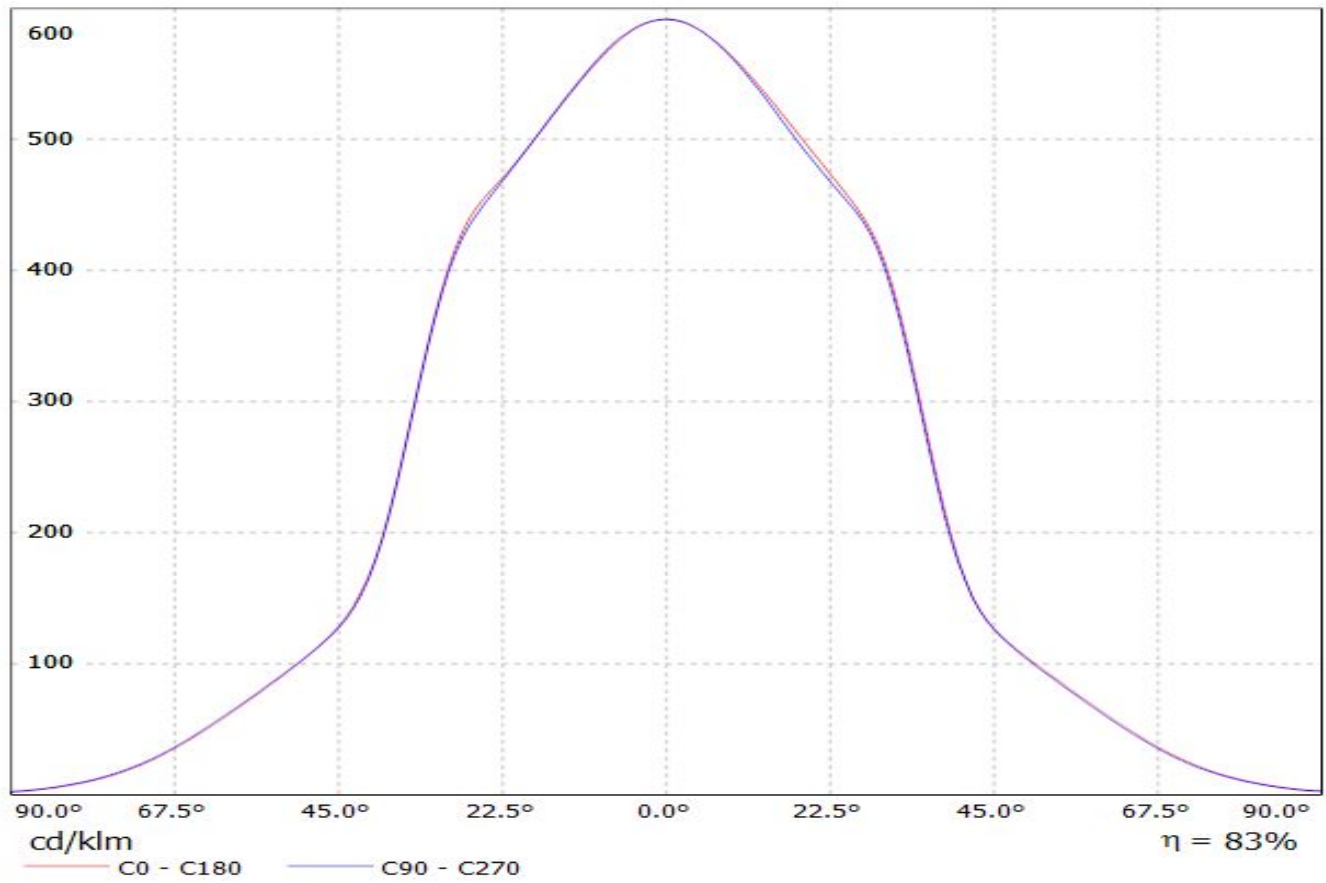
Lamps: 1 x CREE\_CXA25\_(2520-7A-N4-N0U) 888.265lm@250mA CCT=3000K P=8.58457W I=249.9mA



Luminaire: LEDiL Oy CN13351\_LENINA-XW\_(CXA25) Eff.87.5%  
Lamps: 1 x CREE\_CXA25\_(2520-7A-N4-N0U) 888.265lm@250mA CCT=3000K P=8.58457W I=249.9mA

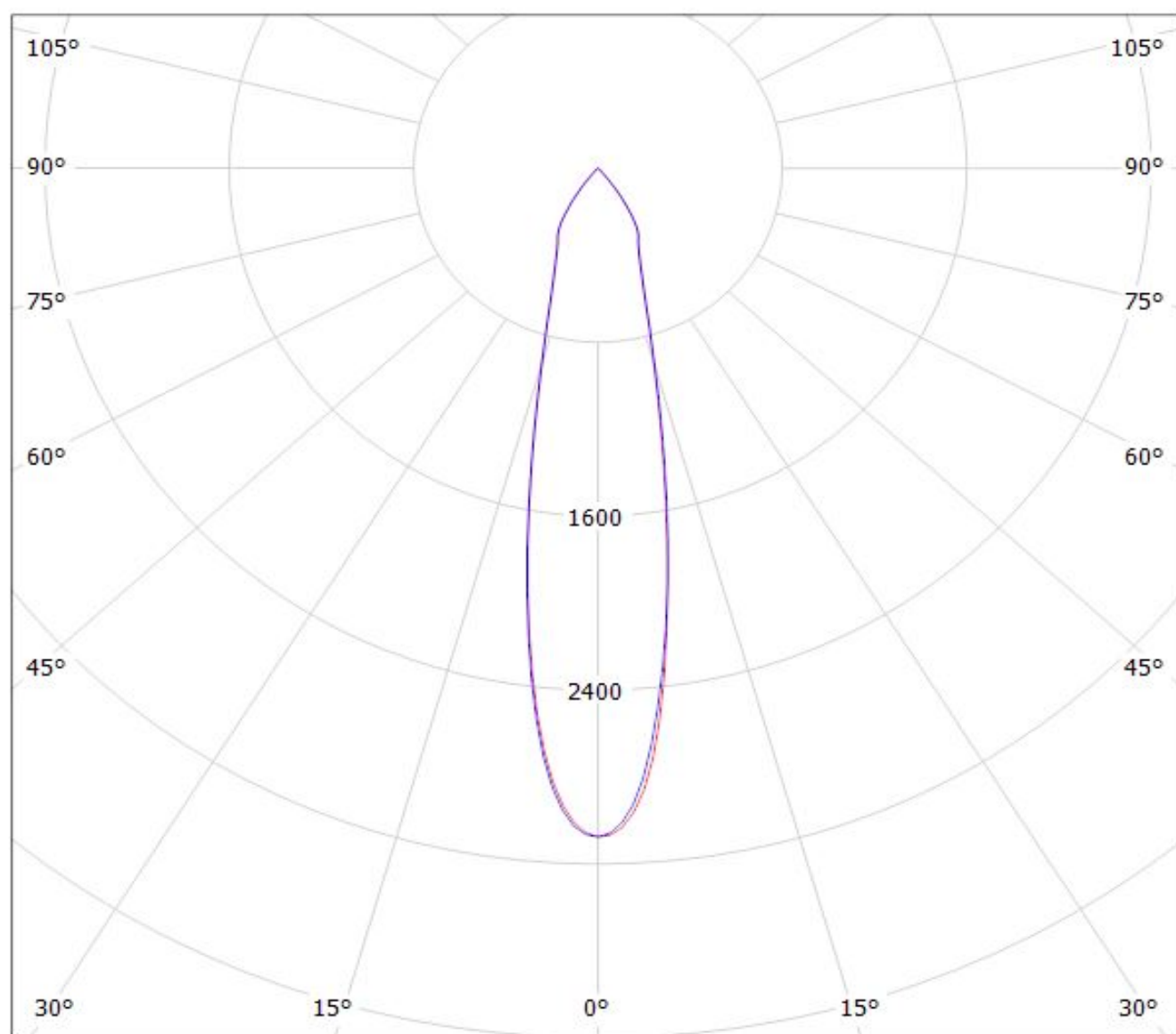


Luminaire: LEDiL Oy CN13352\_LENINA-XW-DL\_(CXA25) Eff.84%  
Lamps: 1 x CREE\_CXA25\_(2520-7A-N4-N0U) 888.265lm@250mA CCT=3000K P=8.58457W I=249.9mA



Luminaire: LEDiL Oy CN13344\_LENINA-S\_(CXA25) Eff.86.4%

Lamps: 1 x CREE\_CXA25\_(2520-7A-N4-N0U) 888.265lm@250mA CCT=3000K P=8.58457W I=249.9mA



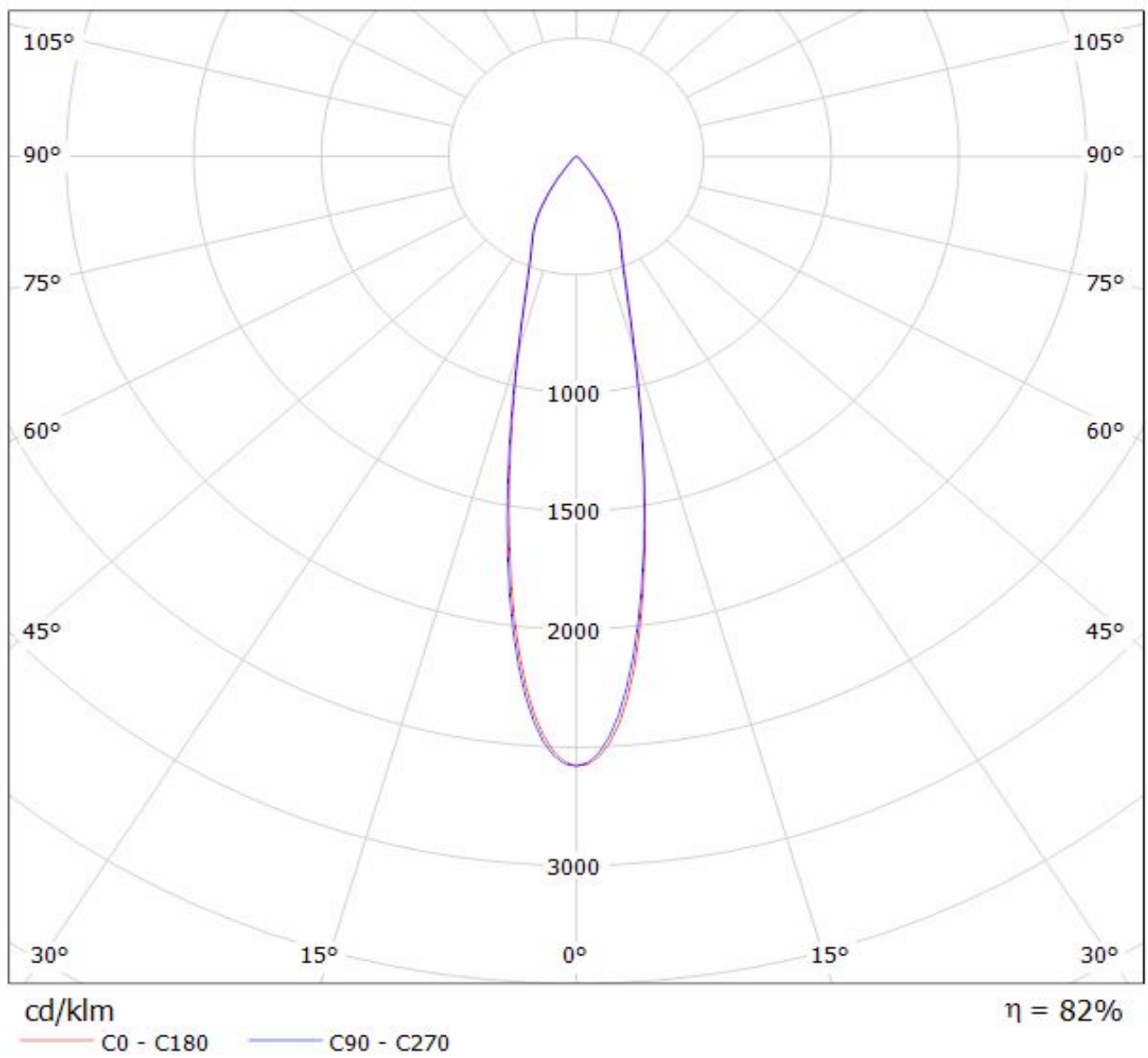
cd/klm

$\eta = 86\%$

— C0 - C180

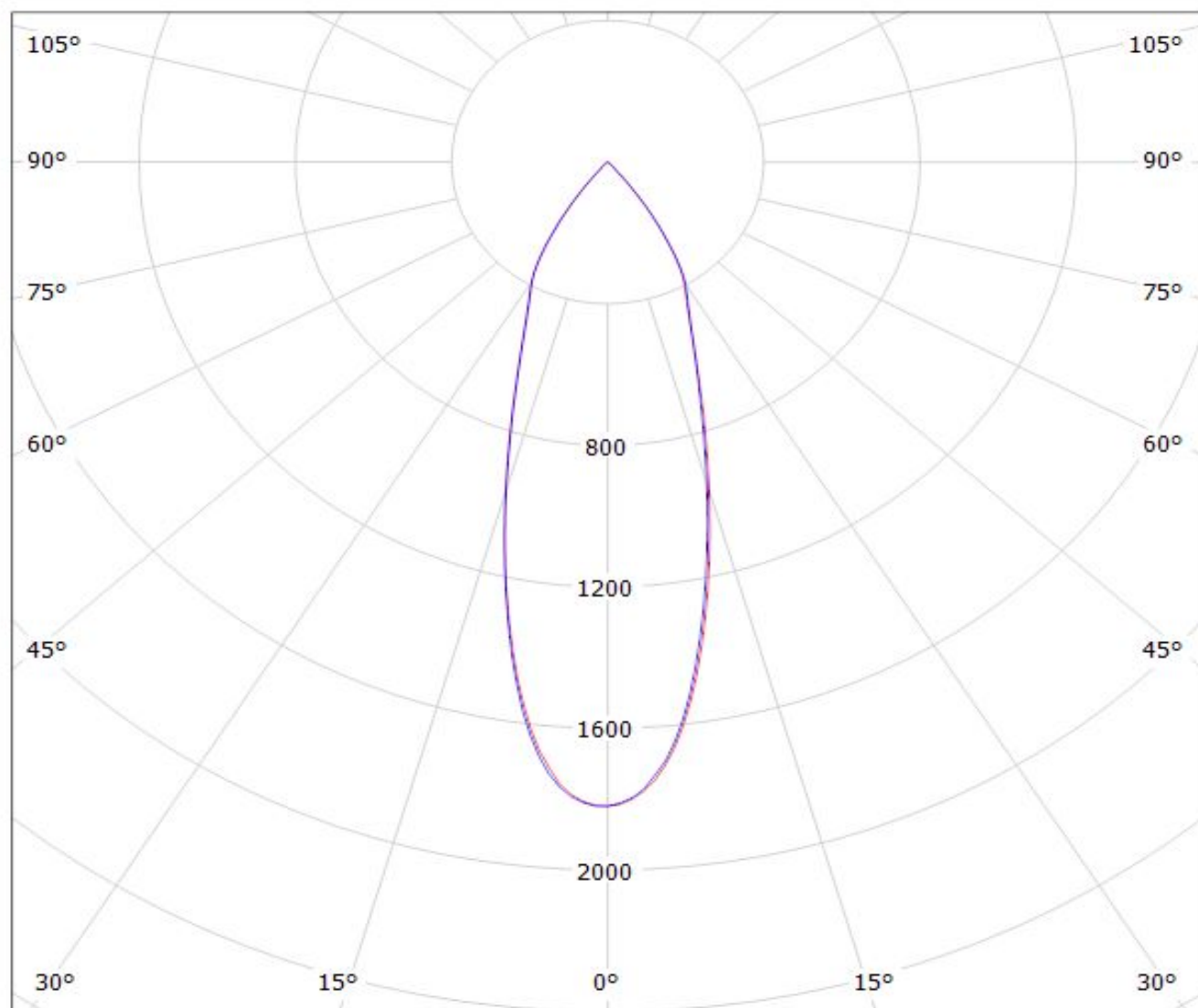
— C90 - C270

Luminaire: LEDiL Oy CN13347\_LENINA-S-DL\_(CXA25) Eff.81.6%  
Lamps: 1 x CREE\_CXA25\_(2520-7A-N4-N0U) 888.265lm@250mA CCT=3000K P=8.58457W I=249.9mA



Luminaire: LEDiL Oy CN13345\_LENINA-M\_(CXA25) Eff.85.4%

Lamps: 1 x CREE\_CXA25\_(2520-7A-N4-N0U) 888.265lm@250mA CCT=3000K P=8.58457W I=249.9mA



cd/klm

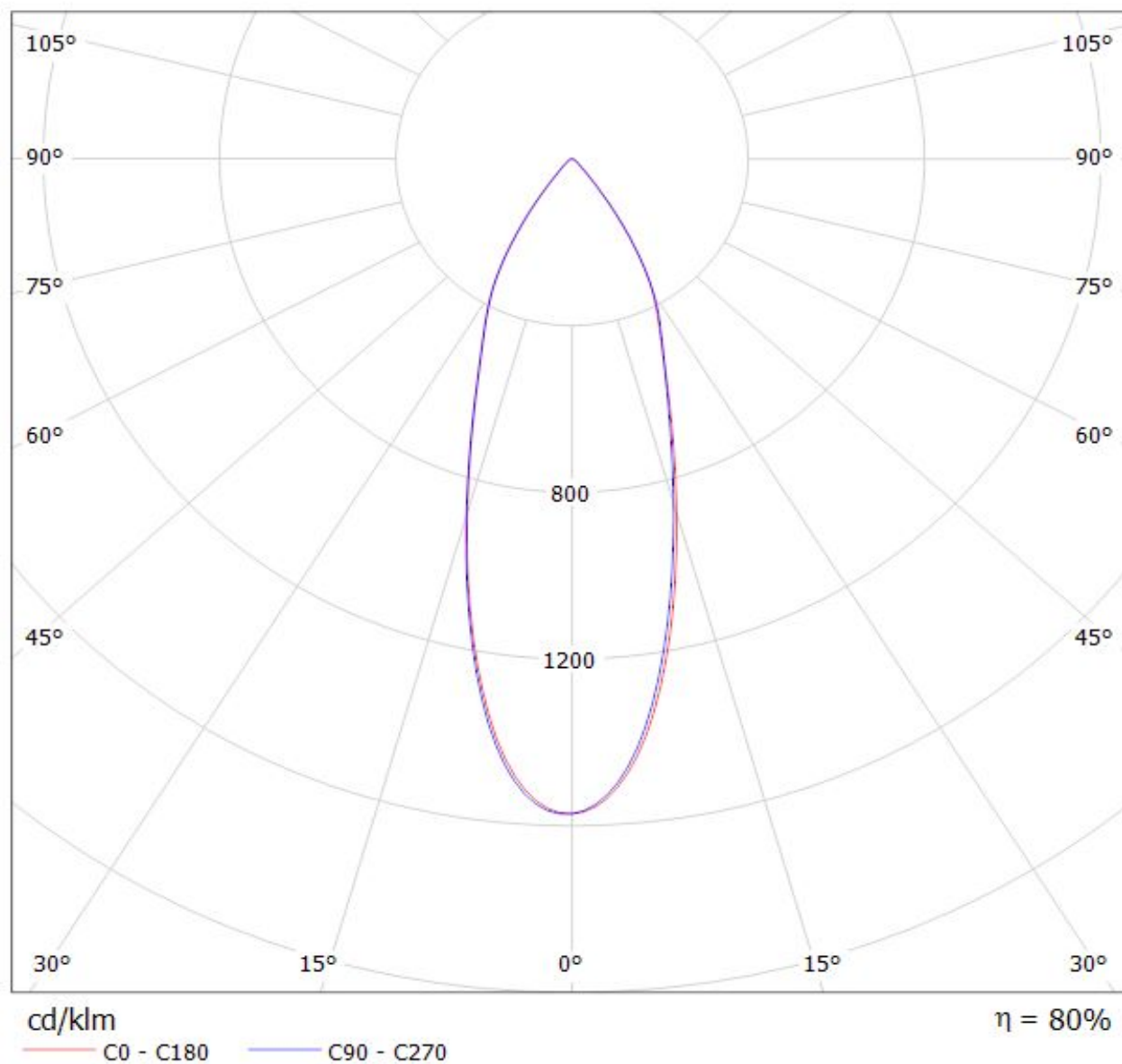
$\eta = 85\%$

— C0 - C180 — C90 - C270

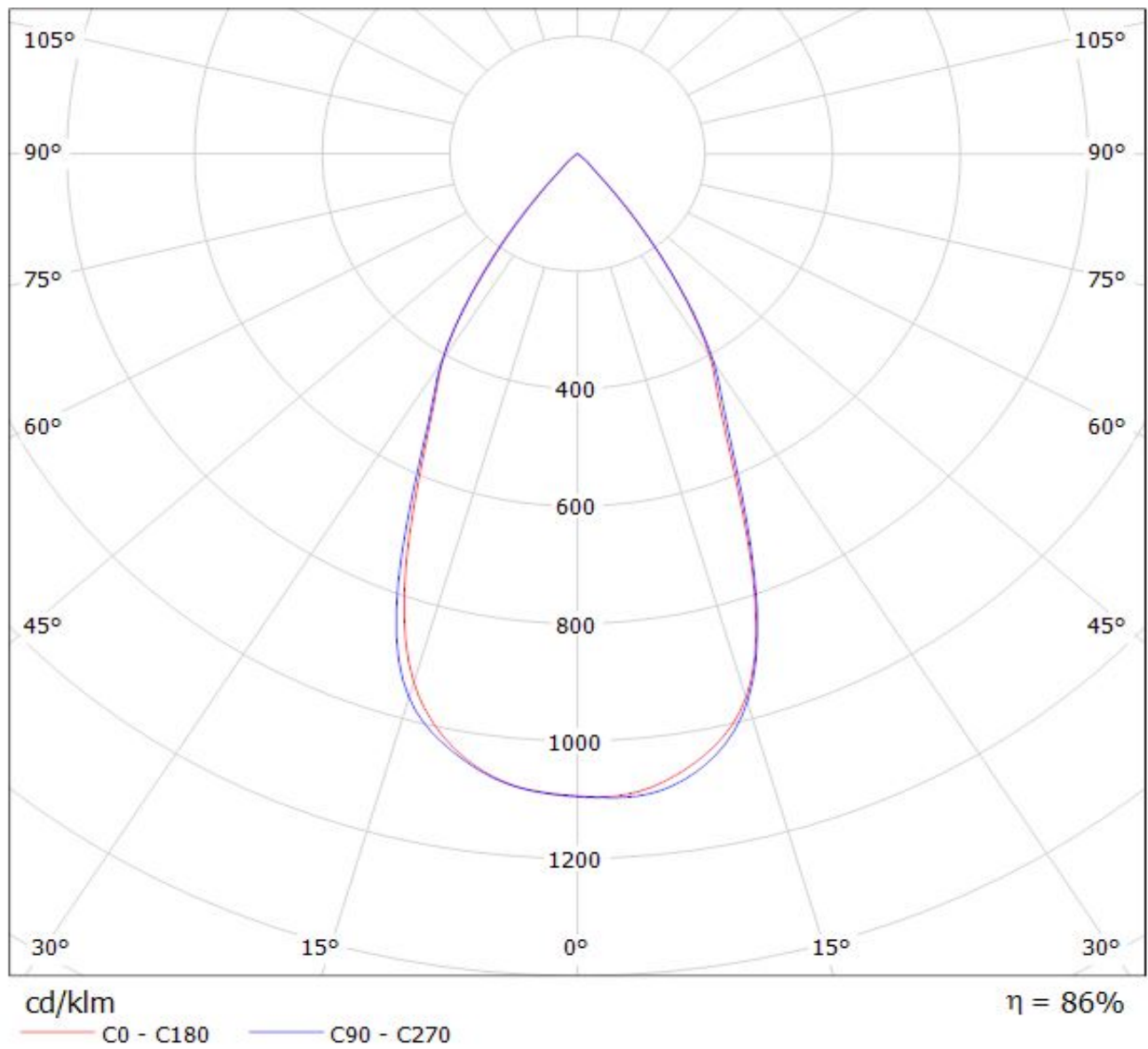


Luminaire: LEDiL Oy CN13348\_LENINA-M-DL\_(CXA25) Eff.80.3%

Lamps: 1 x CREE\_CXA25\_(2520-7A-N4-N0U) 888.265lm@250mA CCT=3000K P=8.58457W I=249.9mA

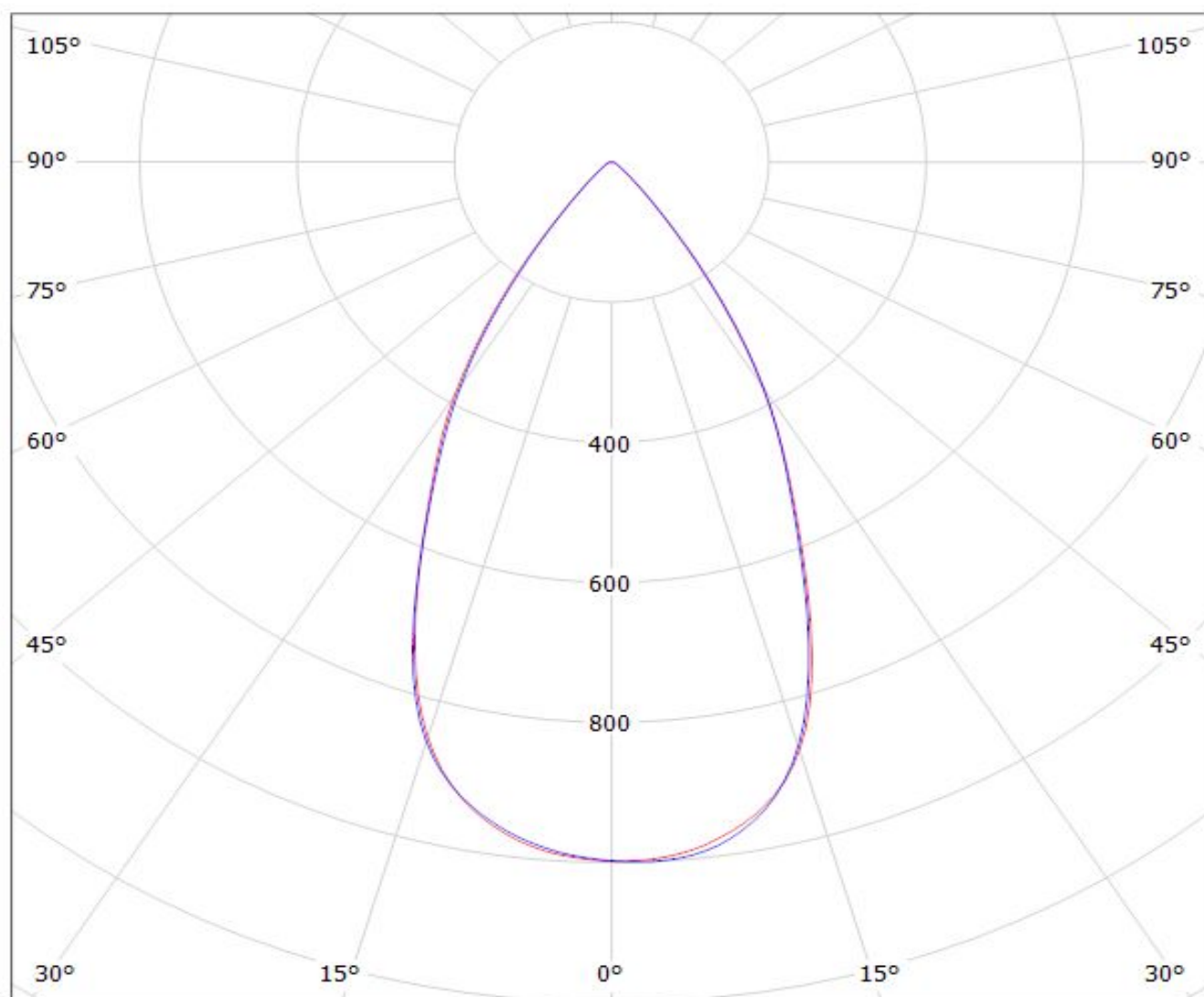


Luminaire: LEDiL Oy CN13346\_LENINA-W\_(CXA25) Eff.86.0%  
Lamps: 1 x CREE\_CXA25\_(2520-7A-N4-N0U) 888.265lm@250mA CCT=3000K P=8.58457W I=249.9mA



Luminaire: LEDiL Oy CN13349\_LENINA-W-DL\_(CXA25) Eff.81.4%

Lamps: 1 x CREE\_CXA25\_(2520-7A-N4-N0U) 888.265lm@250mA CCT=3000K P=8.58457W I=249.9mA



cd/klm

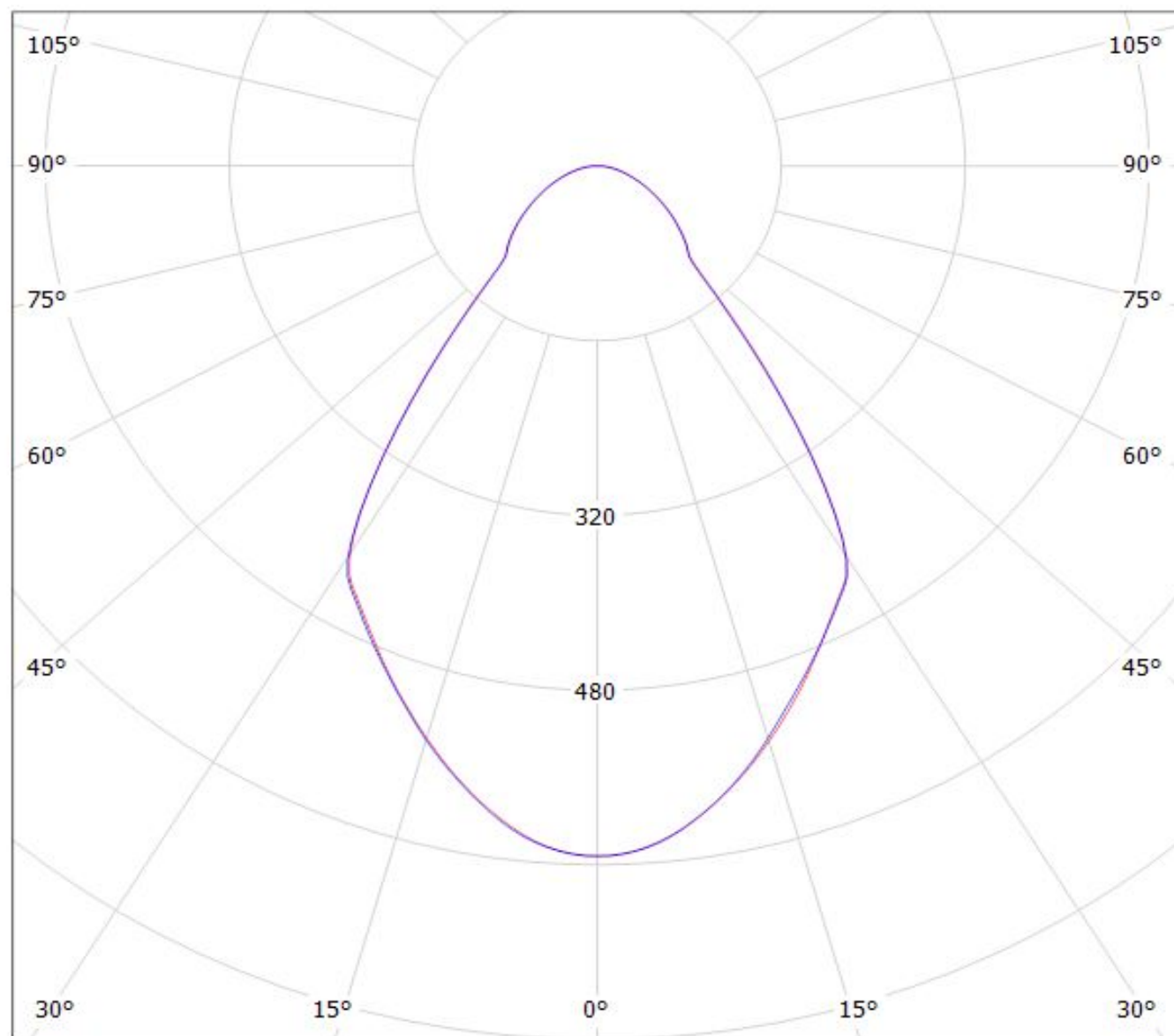
$\eta = 81\%$

C0 - C180

C90 - C270

Luminaire: LEDiL Oy CN13351\_LENINA-XW\_(CXA25) Eff.87.5%

Lamps: 1 x CREE\_CXA25\_(2520-7A-N4-N0U) 888.265lm@250mA CCT=3000K P=8.58457W I=249.9mA



cd/klm

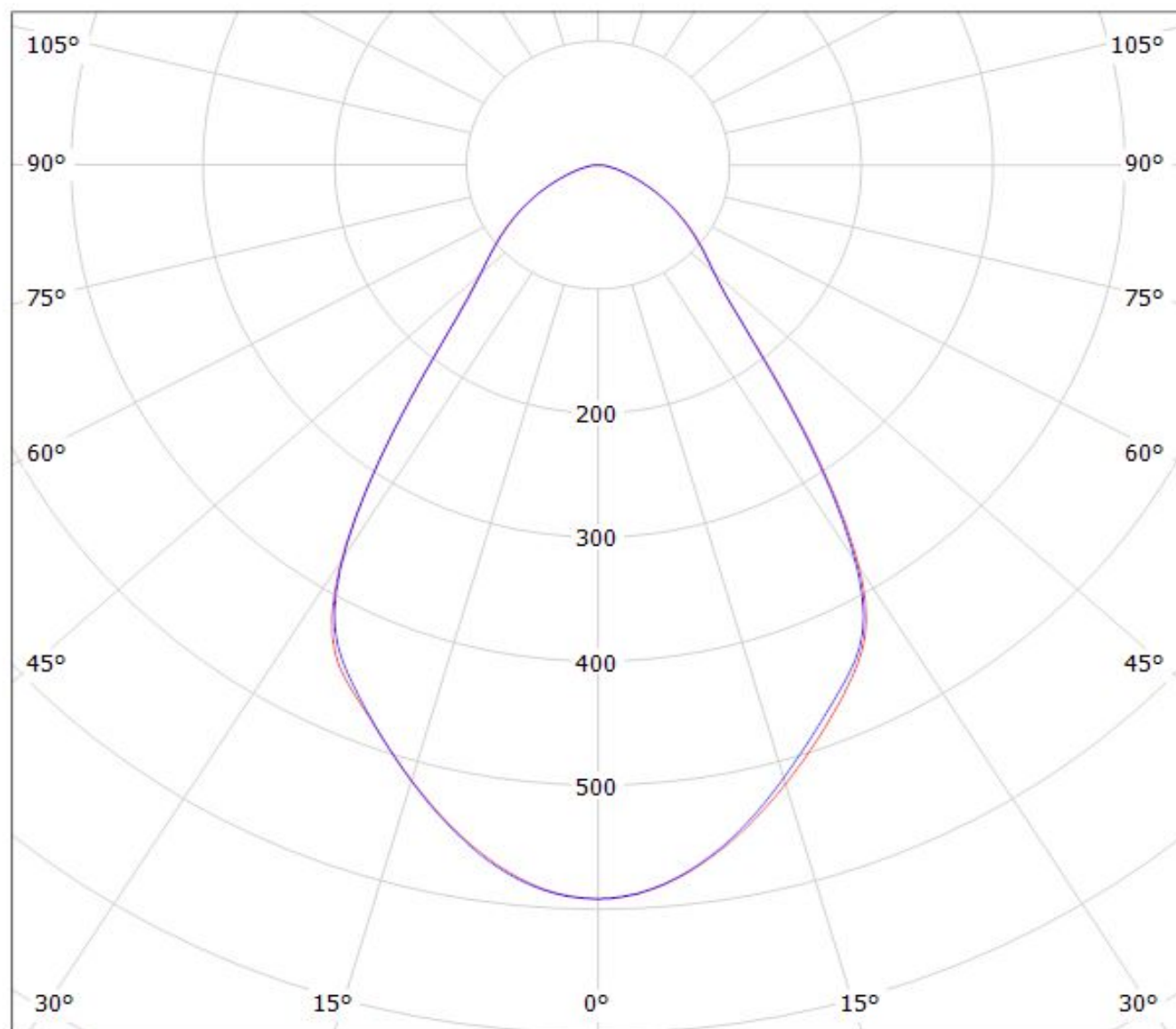
η = 88%

— C0 - C180

— C90 - C270

Luminaire: LEDiL Oy CN13352\_LENINA-XW-DL\_(CXA25) Eff.84%

Lamps: 1 x CREE\_CXA25\_(2520-7A-N4-N0U) 888.265lm@250mA CCT=3000K P=8.58457W I=249.9mA



cd/klm

— C0 - C180

— C90 - C270

$\eta = 83\%$