

**Ordering number CN12932_LENINA-S**

| | | | |
|-----------------|---------------|-------------|------------|
| Family | Lenina | FWHM | 18 degrees |
| Type | Pack | Efficiency | 87 % |
| LED | LUXEON K16 | cd/lm | 4.000 |
| Color | Metal | Gerber File | Available |
| Diameter | 74 mm | | |
| Height | 46.5 mm | | |
| Style | Round | | |
| Optic Material | PC | | |
| Holder Material | PC | | |
| Fastening | Socket, screw | | |
| Status | Ready | | |

Reflector twist-and-locks into included base part that holds COE

**Ordering number CN12935_LENINA-S-DL**

| | | | |
|-----------------|---------------|-------------|------------|
| Family | Lenina | FWHM | 22 degrees |
| Type | Pack | Efficiency | 80 % |
| LED | LUXEON K16 | cd/lm | 2.600 |
| Color | Metal | Gerber File | Available |
| Diameter | 74 mm | | |
| Height | 48.6 mm | | |
| Style | Round | | |
| Optic Material | PC | | |
| Holder Material | PC | | |
| Fastening | Socket, screw | | |
| Status | Ready | | |

**Ordering number CN12933_LENINA-M**

| | | | |
|-----------------|---------------|-------------|------------|
| Family | Lenina | FWHM | 30 degrees |
| Type | Pack | Efficiency | 85 % |
| LED | LUXEON K16 | cd/lm | 2.000 |
| Color | Metal | Gerber File | Available |
| Diameter | 74 mm | | |
| Height | 46.5 mm | | |
| Style | Round | | |
| Optic Material | PC | | |
| Holder Material | PC | | |
| Fastening | Socket, screw | | |
| Status | Ready | | |

**Ordering number CN12936_LENINA-M-DL**

| | | | |
|-----------------|------------|-------------|------------|
| Family | Lenina | FWHM | 34 degrees |
| Type | Pack | Efficiency | 79 % |
| LED | LUXEON K16 | cd/lm | 1.500 |
| Color | Metal | Gerber File | Available |
| Diameter | 74 mm | | |
| Height | 48.6 mm | | |
| Style | Round | | |
| Optic Material | PC | | |
| Holder Material | PC | | |
| Fastening | - | | |
| Status | Ready | | |

**Ordering number CN12934_LENINA-W**

| | | | |
|-----------------|---------------|-------------|------------|
| Family | Lenina | FWHM | 55 degrees |
| Type | Pack | Efficiency | 85 % |
| LED | LUXEON K16 | cd/lm | 1.050 |
| Color | Metal | Gerber File | Available |
| Diameter | 74 mm | | |
| Height | 46.5 mm | | |
| Style | Round | | |
| Optic Material | PC | | |
| Holder Material | PC | | |
| Fastening | Socket, screw | | |
| Status | Ready | | |

**Ordering number CN12937_LENINA-W-DL**

| | | | |
|-----------------|---------------|-------------|------------|
| Family | Lenina | FWHM | 56 degrees |
| Type | Pack | Efficiency | 79 % |
| LED | LUXEON K16 | cd/lm | 0.900 |
| Color | Metal | Gerber File | Available |
| Diameter | 74 mm | | |
| Height | 48.6 mm | | |
| Style | Round | | |
| Optic Material | PC | | |
| Holder Material | PC | | |
| Fastening | Socket, screw | | |
| Status | Ready | | |

**Ordering number CN12977_LENINA-XW-DL**

| | | | |
|-----------------|-----------------------|-------------|------------|
| Family | Lenina | FWHM | 68 degrees |
| Type | Pack | Efficiency | 80 % |
| LED | LUXEON K16 | cd/lm | 0.600 |
| Color | White | Gerber File | Available |
| Diameter | 74 mm | | |
| Height | 48.6 mm | | |
| Style | Round | | |
| Optic Material | PC | | |
| Holder Material | PC | | |
| Fastening | Socket, screw, socket | | |
| Status | Ready | | |

Reflector twist-and-locks into included base part that holds COE

**Ordering number CN12966_LENINA-XW**

| | | | |
|-----------------|-----------------------|-------------|------------|
| Family | Lenina | FWHM | 72 degrees |
| Type | Pack | Efficiency | 86 % |
| LED | LUXEON K16 | cd/lm | 0.640 |
| Color | White | Gerber File | Available |
| Diameter | 74 mm | | |
| Height | 46.5 mm | | |
| Style | Round | | |
| Optic Material | PC | | |
| Holder Material | PC | | |
| Fastening | Screw, socket, socket | | |
| Status | Ready | | |

Reflector twist-and-locks into included base part that holds COE



PRODUCT DATASHEET

Lenina series

last update 30/10/2012

PHILIPS
LUMILEDS

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 30/10/2012

PHILIPS
LUMILEDS

GENERAL INFORMATION

- Product series especially designed & optimized for LUXEON K16 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

- 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).

D

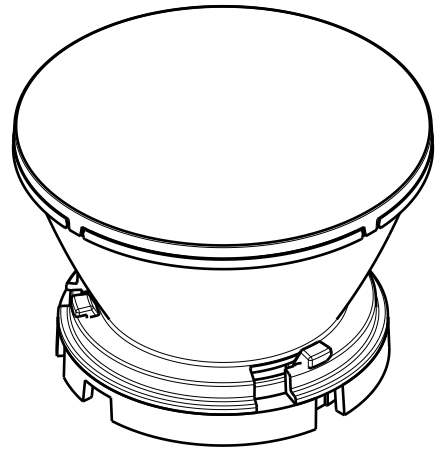
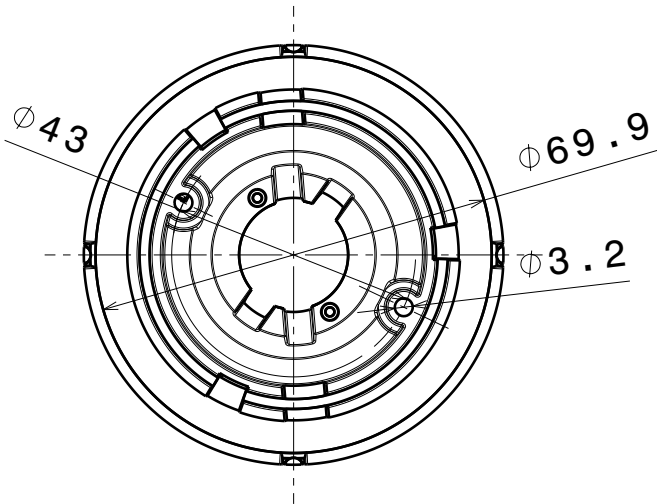
C

B

A

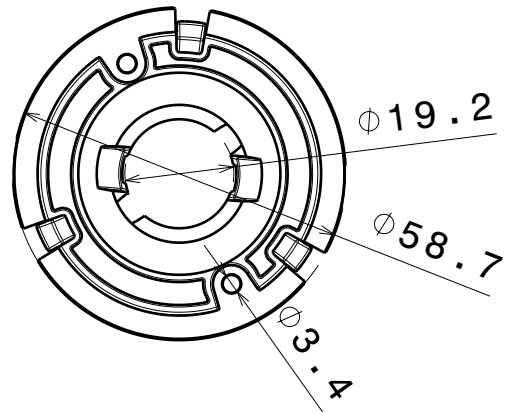
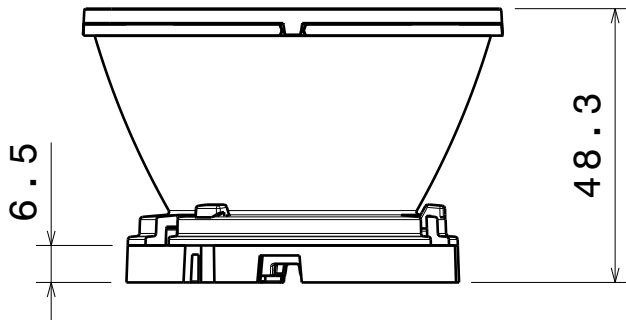
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4



3

3



2

2

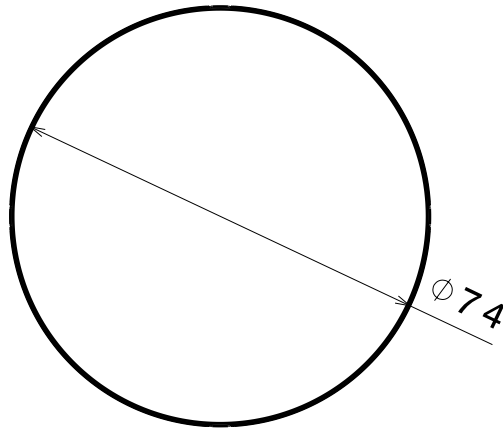
Material:

subLens
- PC

Reflector
- PC
- Metal coating and clear lacquer

Holder base
- PC
- Color white

Base part designed for
Philips Lumileds LUXEON K, 12up and 16up versions



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Ledil Oy
Salorankatu 10
FIN 24240 SALO
Finland

DRAWING TITLE

DRAWN BY

as

DATE

6.8.2012

LENINA-LUXEON-K mechanical drawing

CHECKED BY

sn

DATE

-

SIZE

A3

PART NUMBER

REV

001

DESIGNED BY

pl

DATE

-

SCALE

3:4 WEIGHT

SHEET

1/1

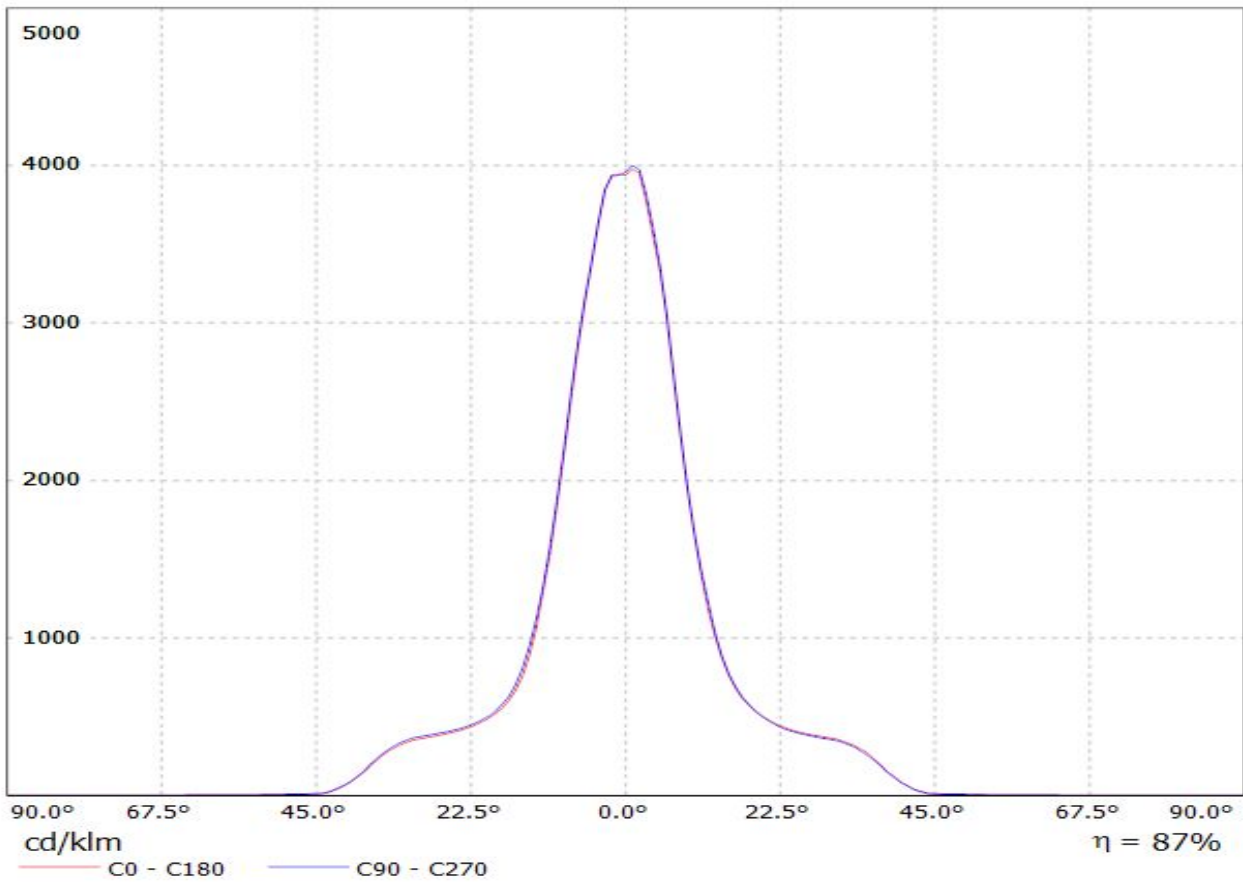
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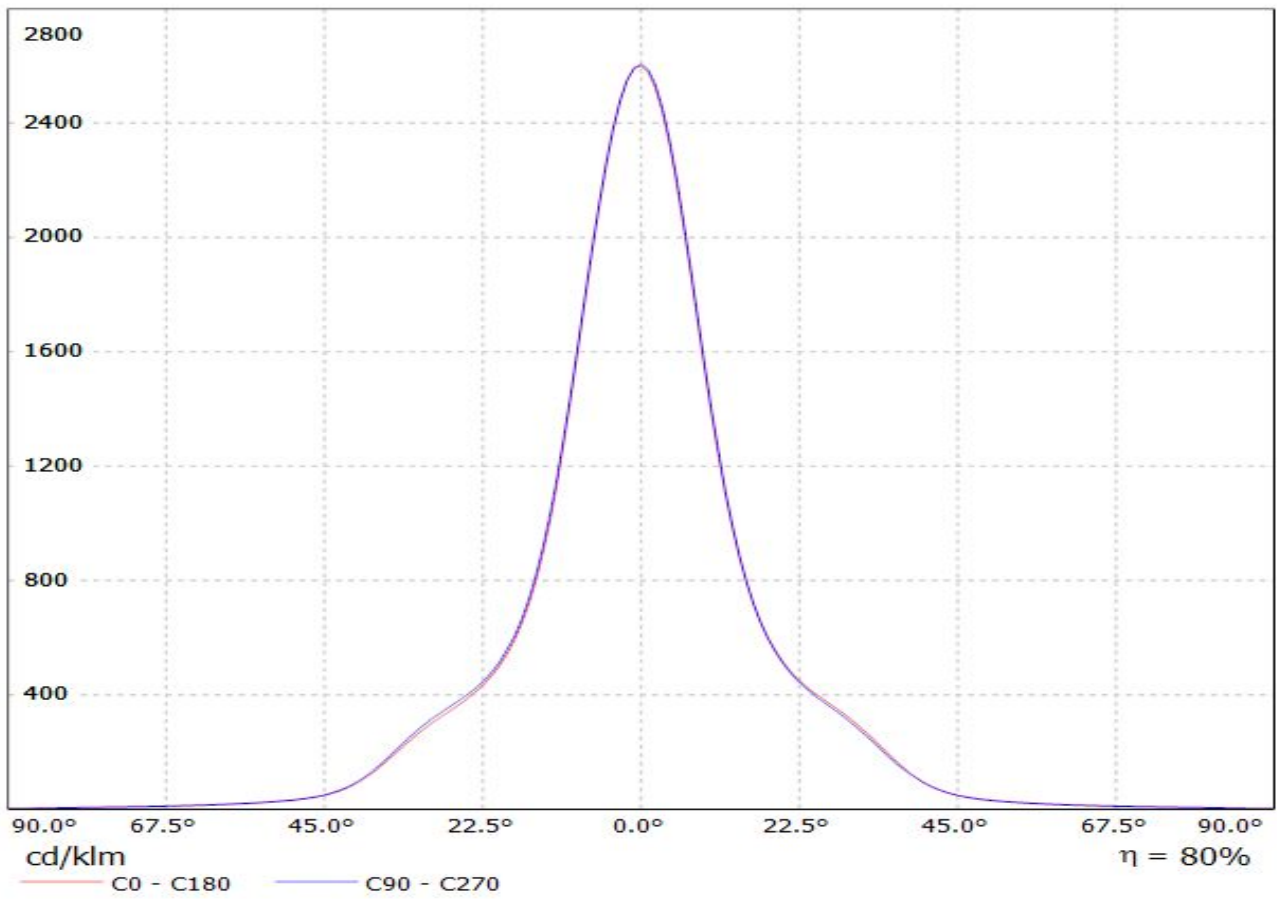
D

A

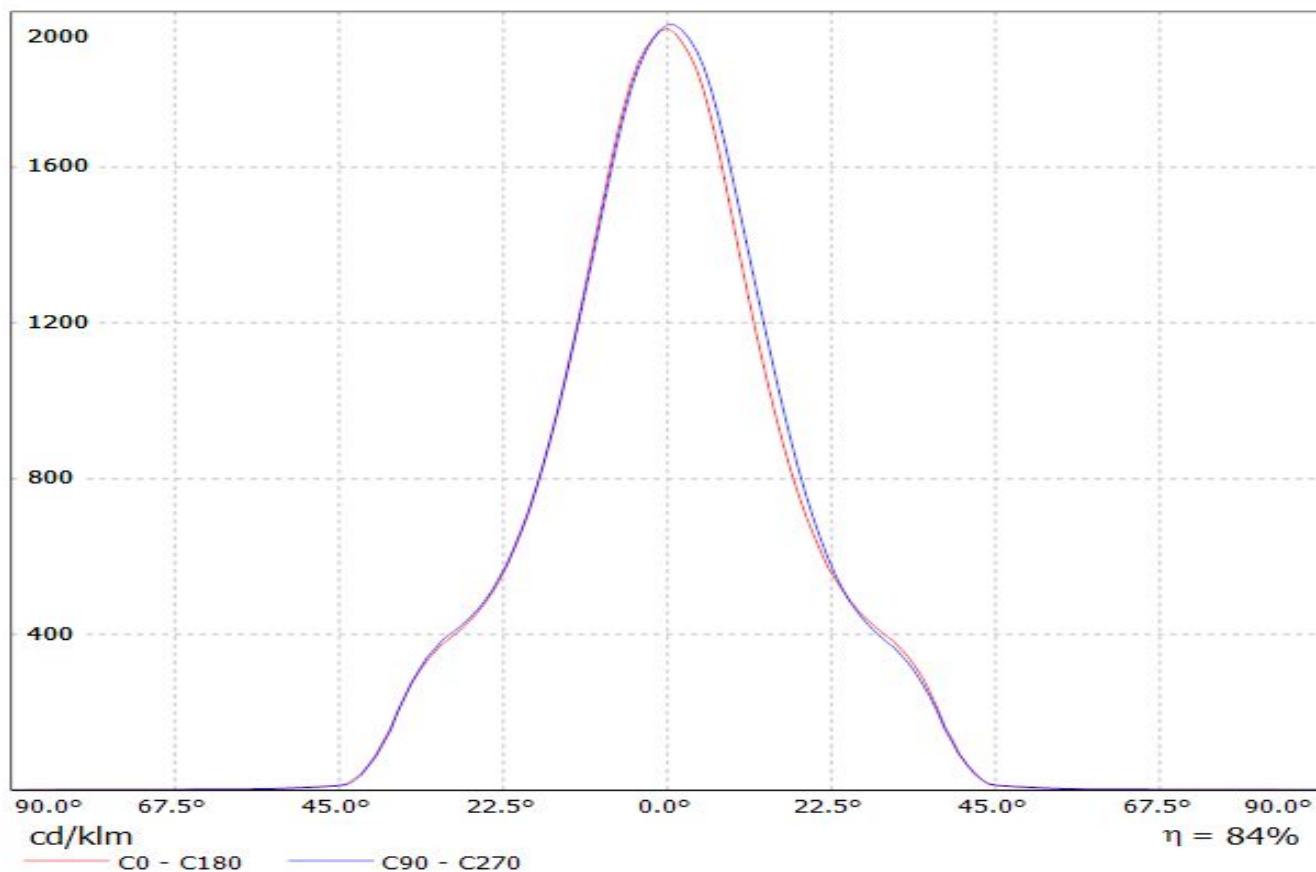
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Lamps: 1 x Luxeon_K16 (1008.05lm@250mA)



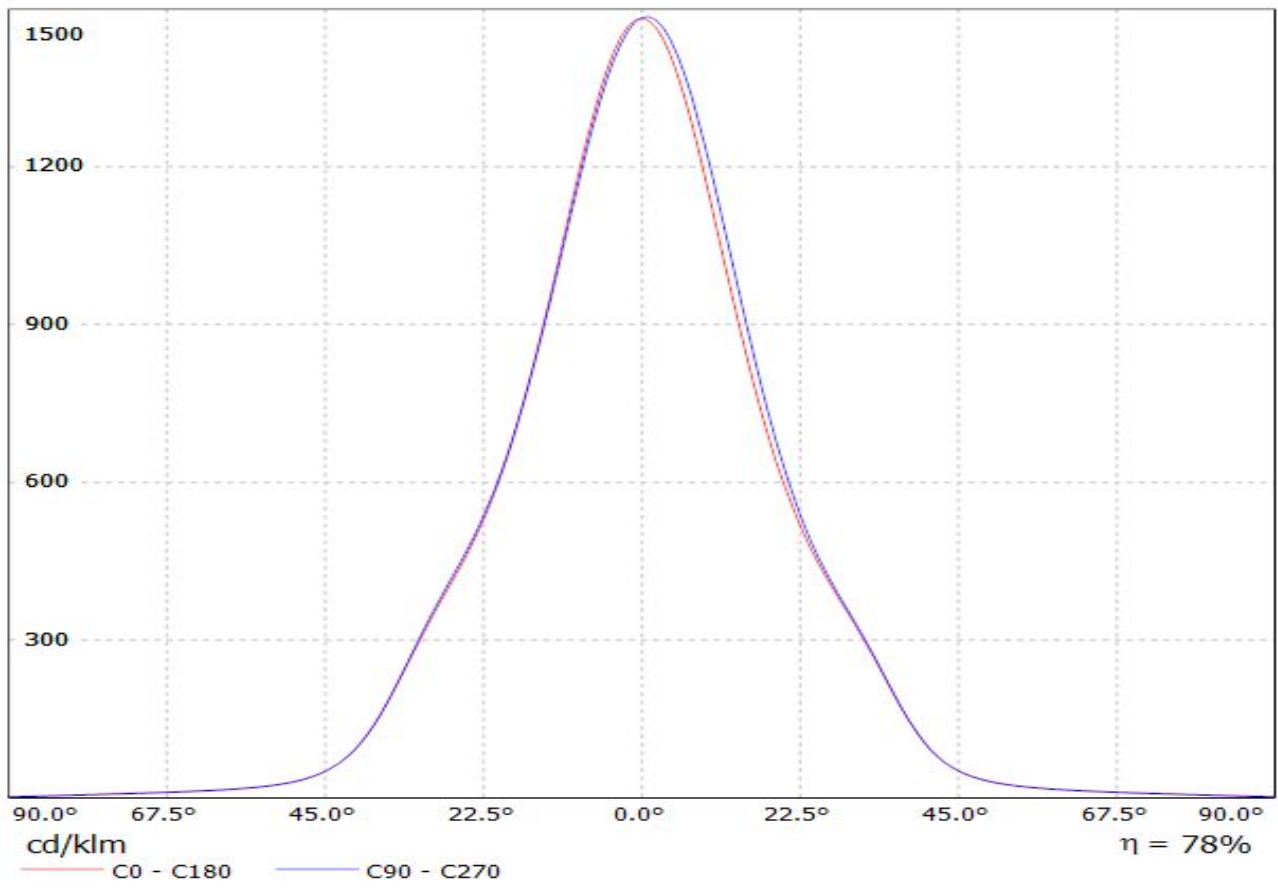
Luminaire: LEDiL Oy CN12935_LENINA-S-DL_(Luxeon_K16) Eff.80.0%
Lamps: 1 x Luxeon_K16 (1208.05lm@250mA)



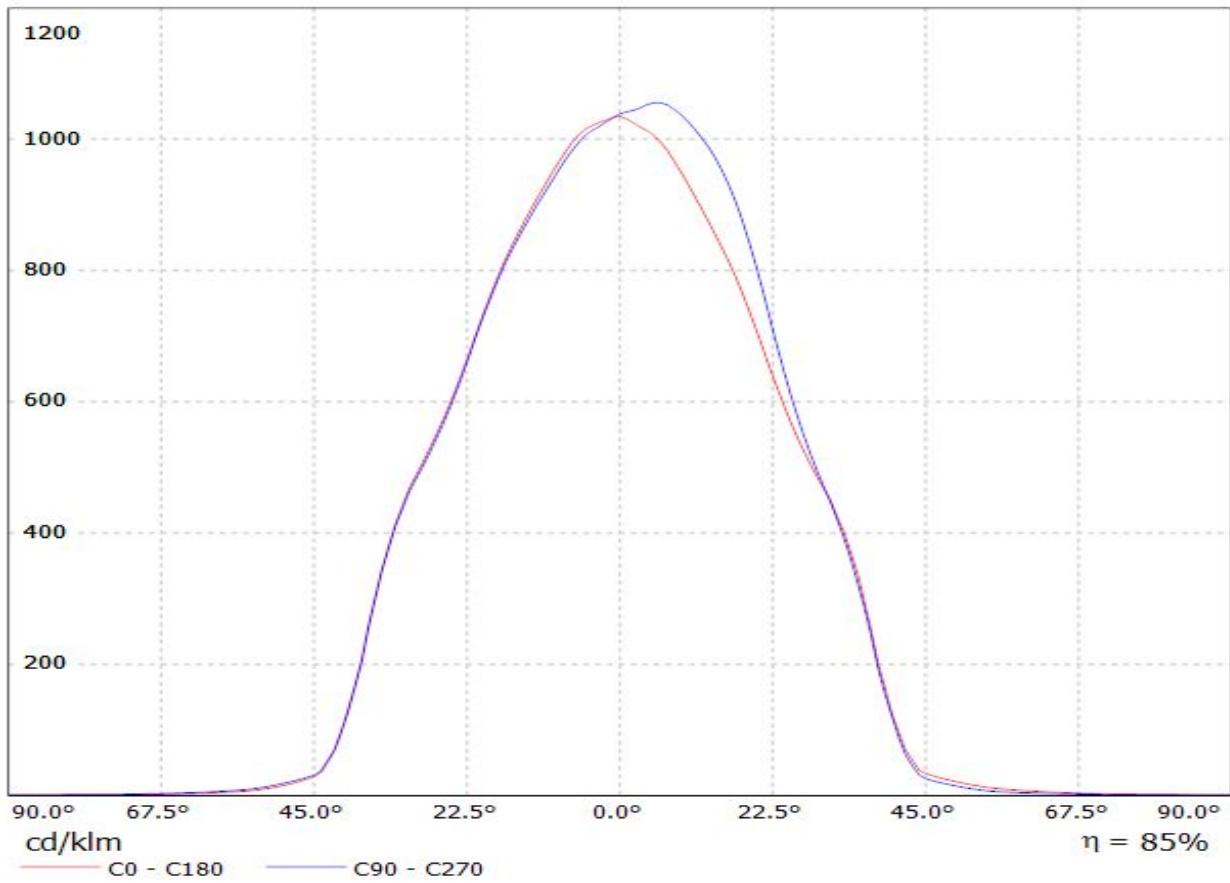
Luminaire: LEDiL Oy CN12933_LENINA-M_(Luxeon_K16) Eff.84.5%
Lamps: 1 x Luxeon_K16 (1208.05lm@250mA)



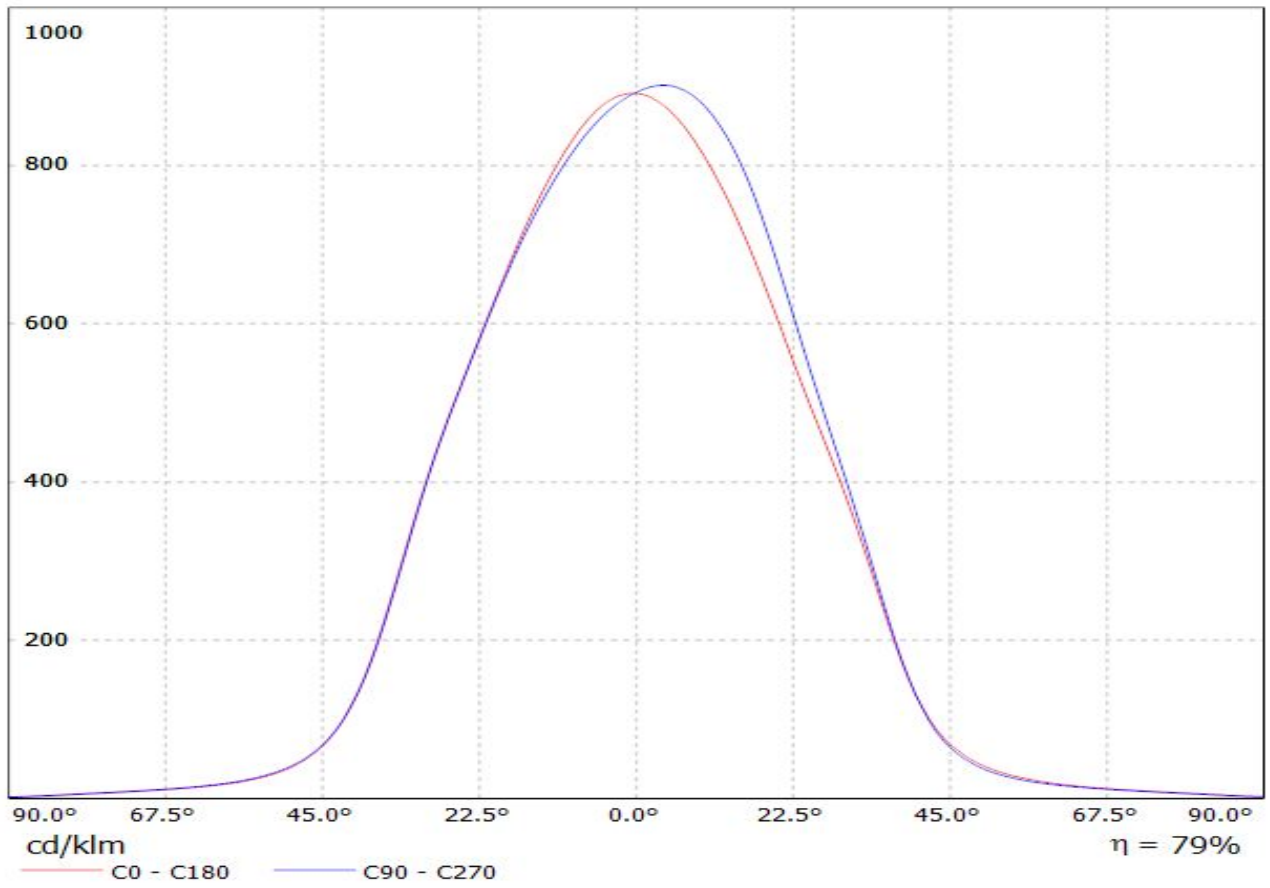
Luminaire: LEDiL Oy CN12936_LENINA-M-DL_(Luxeon_K16) Eff.78.5%
Lamps: 1 x Luxeon_K16 (1208.05lm@250mA)



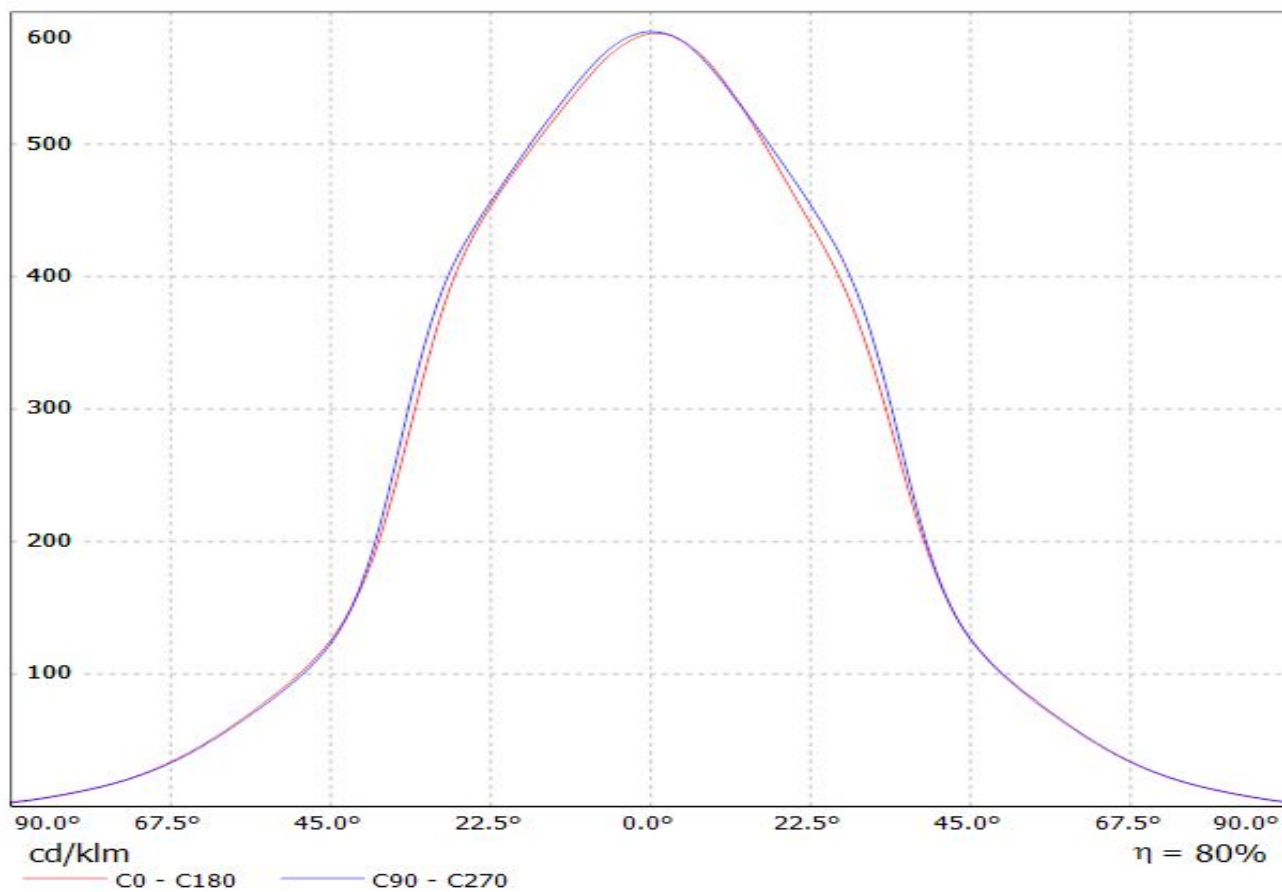
Luminaire: LEDiL Oy CN12934_LENINA-W_(Luxeon_K16) Eff.85.2%
Lamps: 1 x Luxeon_K16 (1208.05lm@250mA)



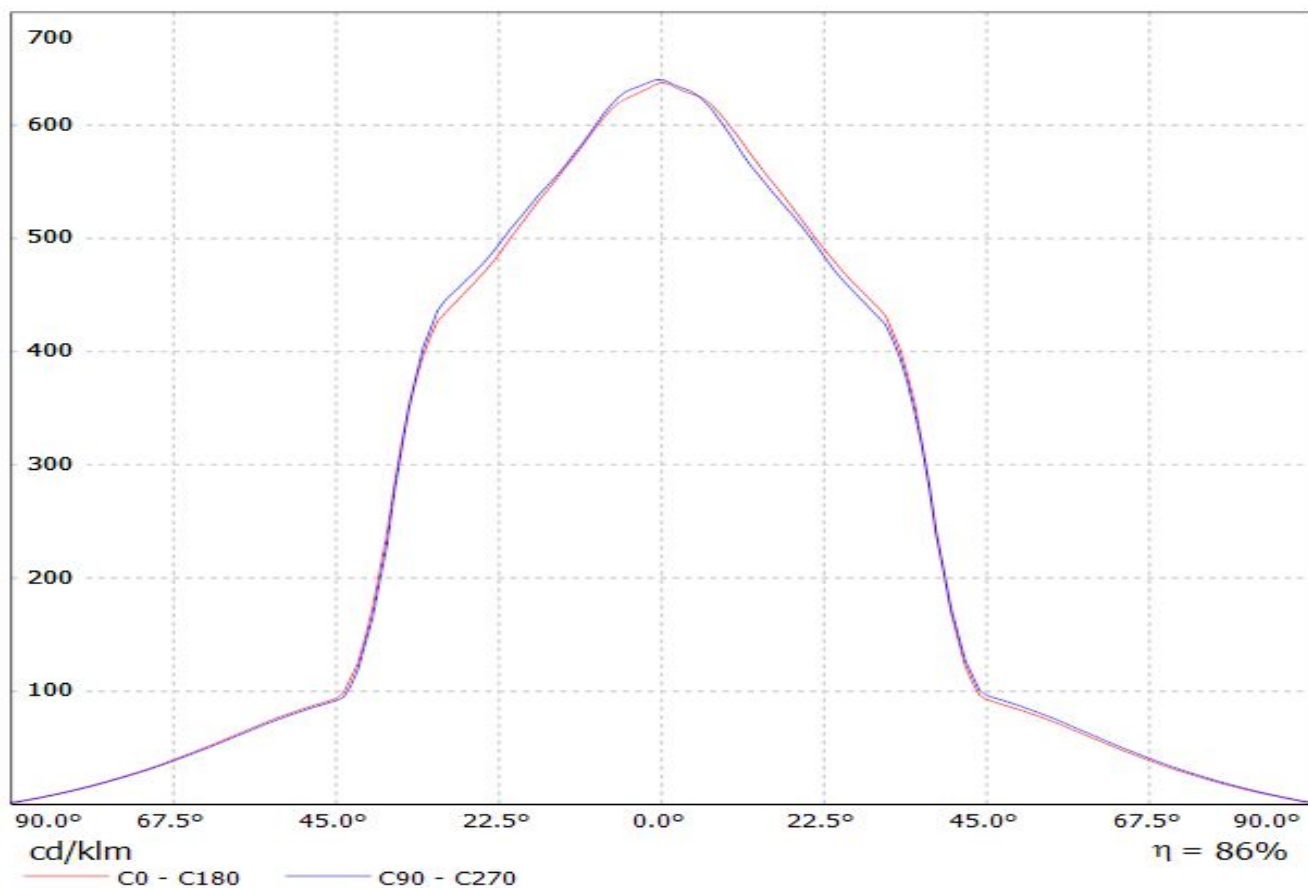
Luminaire: LEDiL Oy CN12937_LENINA-W-DL_(Luxeon_K16) Eff.78.6%
Lamps: 1 x Luxeon_K16 (1208.05lm@250mA)



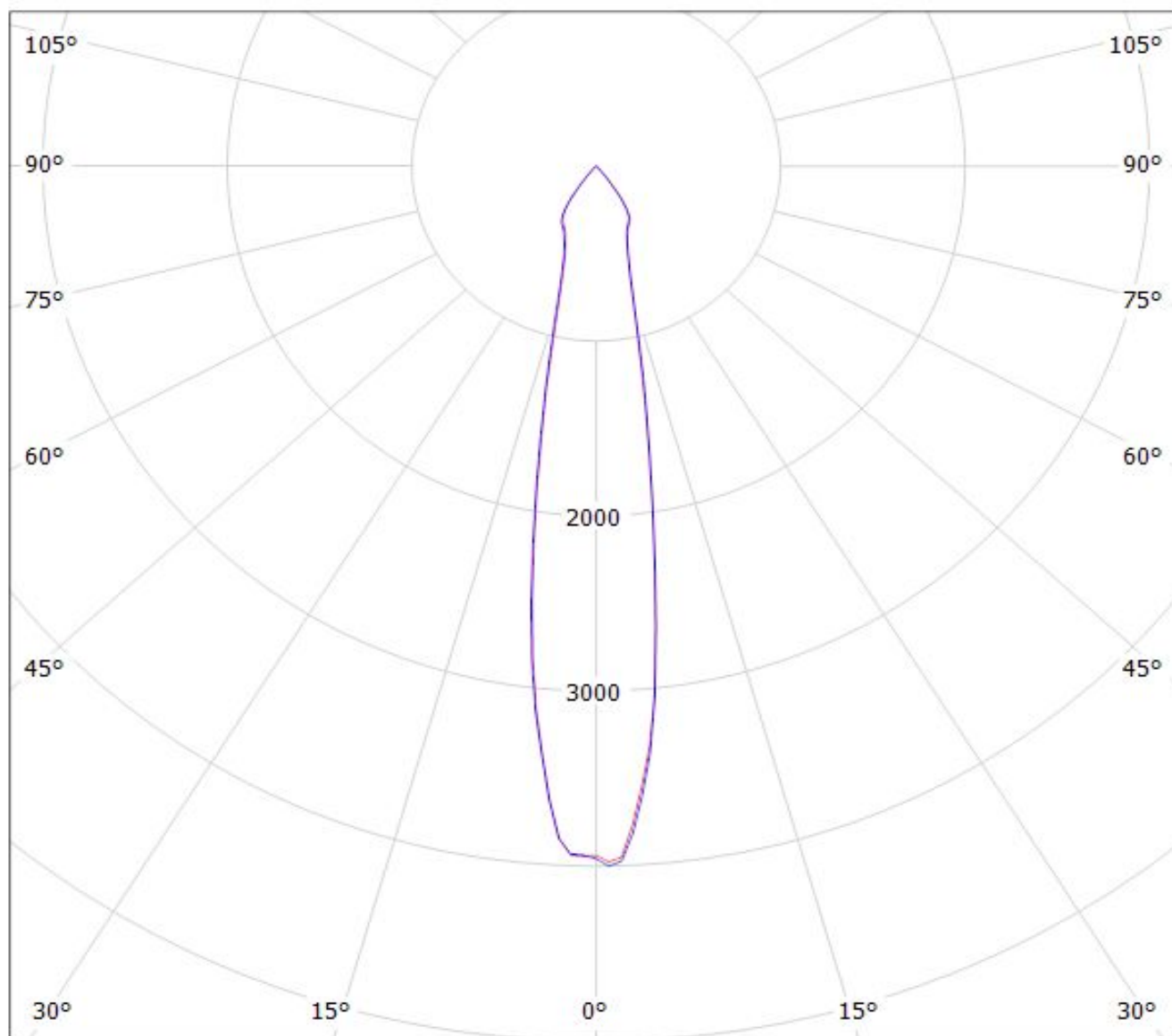
Luminaire: LEDiL Oy CN12977_LENINA-XW-DL_(Luxeon_K16) Eff.79.7%
Lamps: 1 x Luxeon_K16 (1208.05lm@250mA)



Luminaire: LEDiL Oy CN12966_LENINA-XW_(Luxeon_K16) Eff.85.6%
Lamps: 1 x Luxeon_K16 (1208.05lm@250mA)



Luminaire: LEDiL Oy CN12932_LENINA-S_(Luxeon_K16) Eff.87.3%
Lamps: 1 x Luxeon_K16 (1008.05lm@250mA)

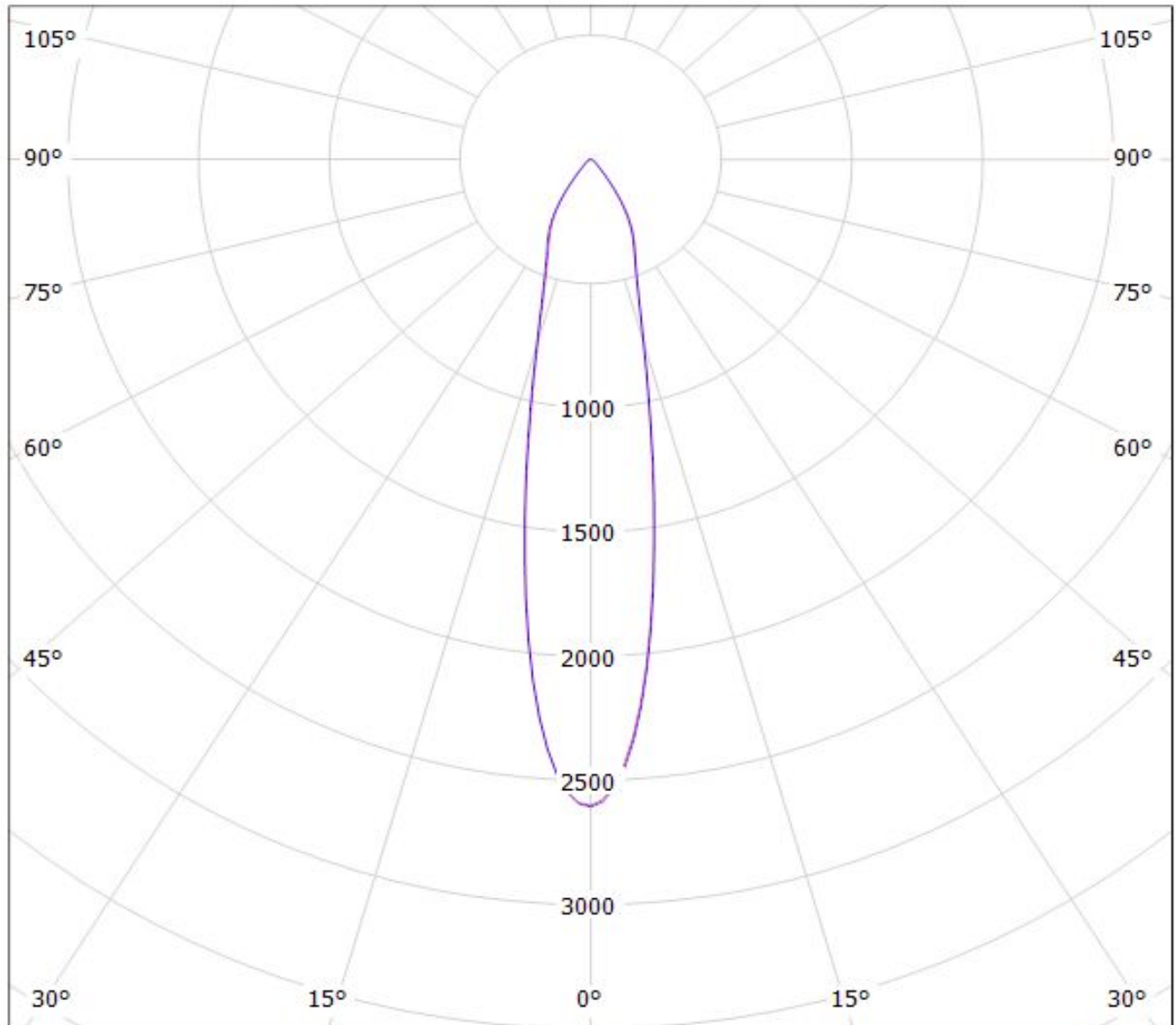


cd/klm

— C0 - C180 — C90 - C270

$\eta = 87\%$

Luminaire: LEDiL Oy CN12935_LENINA-S-DL_(Luxeon_K16) Eff.80.0%
Lamps: 1 x Luxeon_K16 (1208.05lm@250mA)

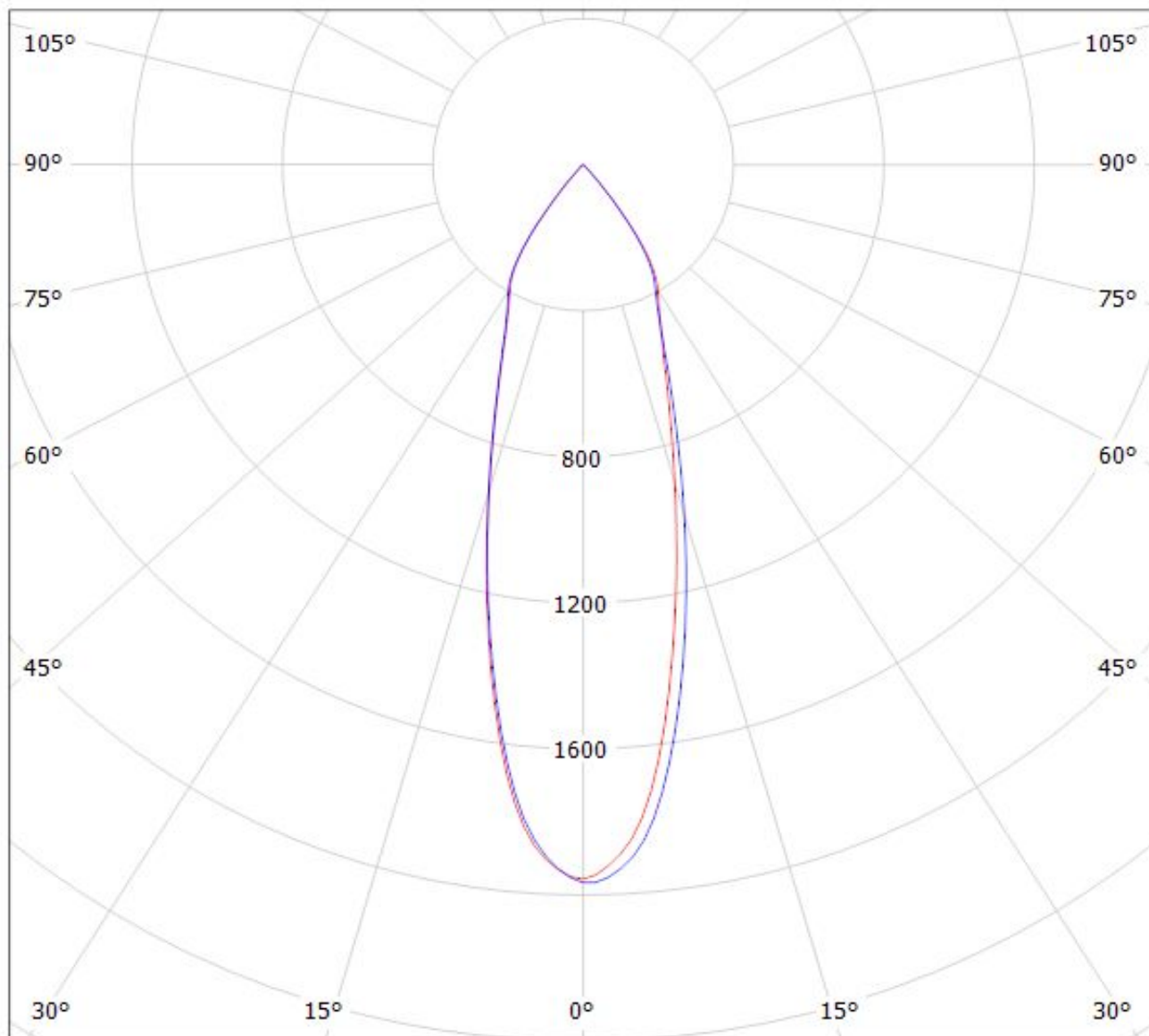


cd/klm

$\eta = 80\%$

— C0 - C180 — C90 - C270

Luminaire: LEDiL Oy CN12933_LENINA-M_(Luxeon_K16) Eff.84.5%
Lamps: 1 x Luxeon_K16 (1208.05lm@250mA)



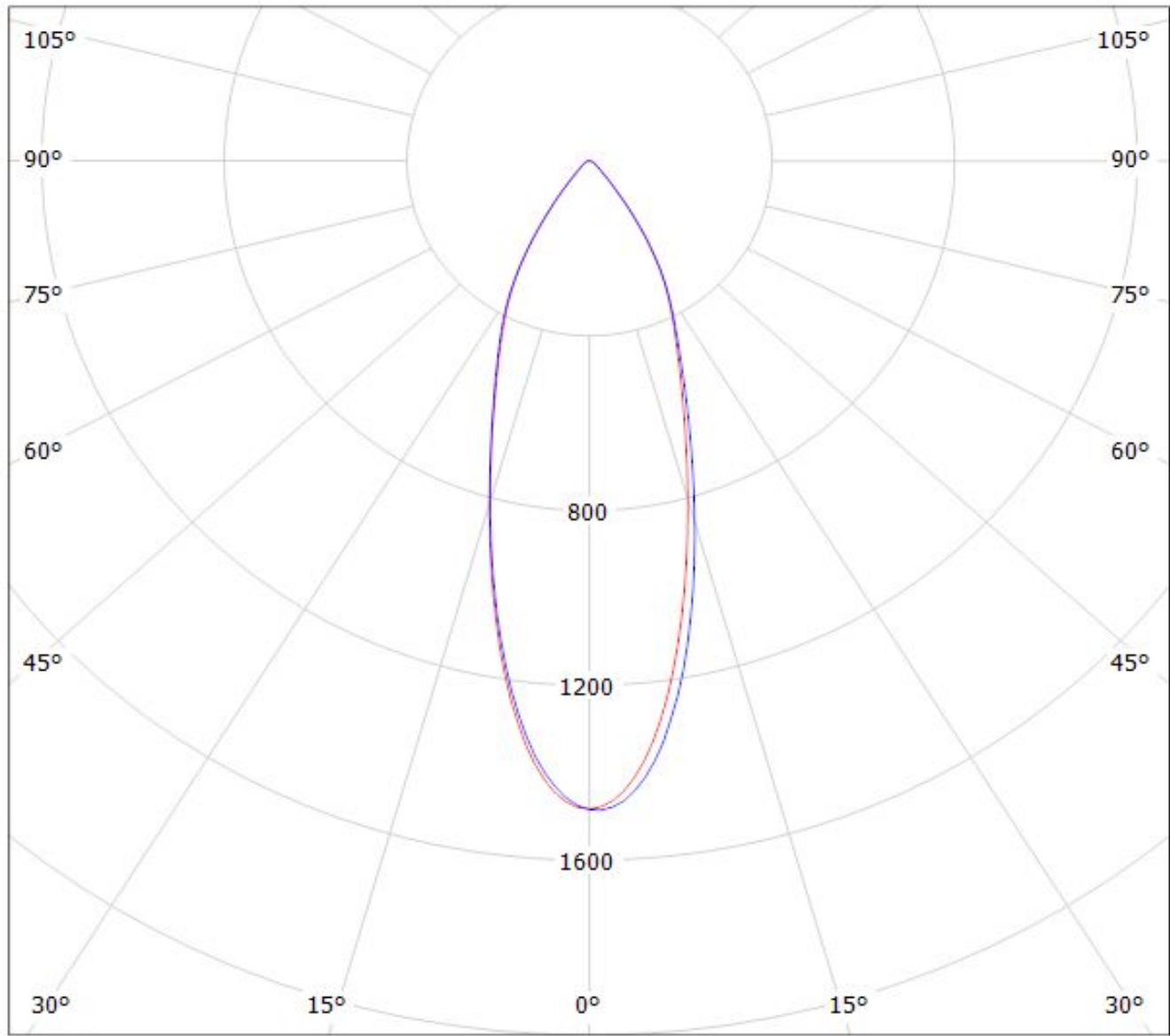
cd/klm

$\eta = 84\%$

— C0 - C180

— C90 - C270

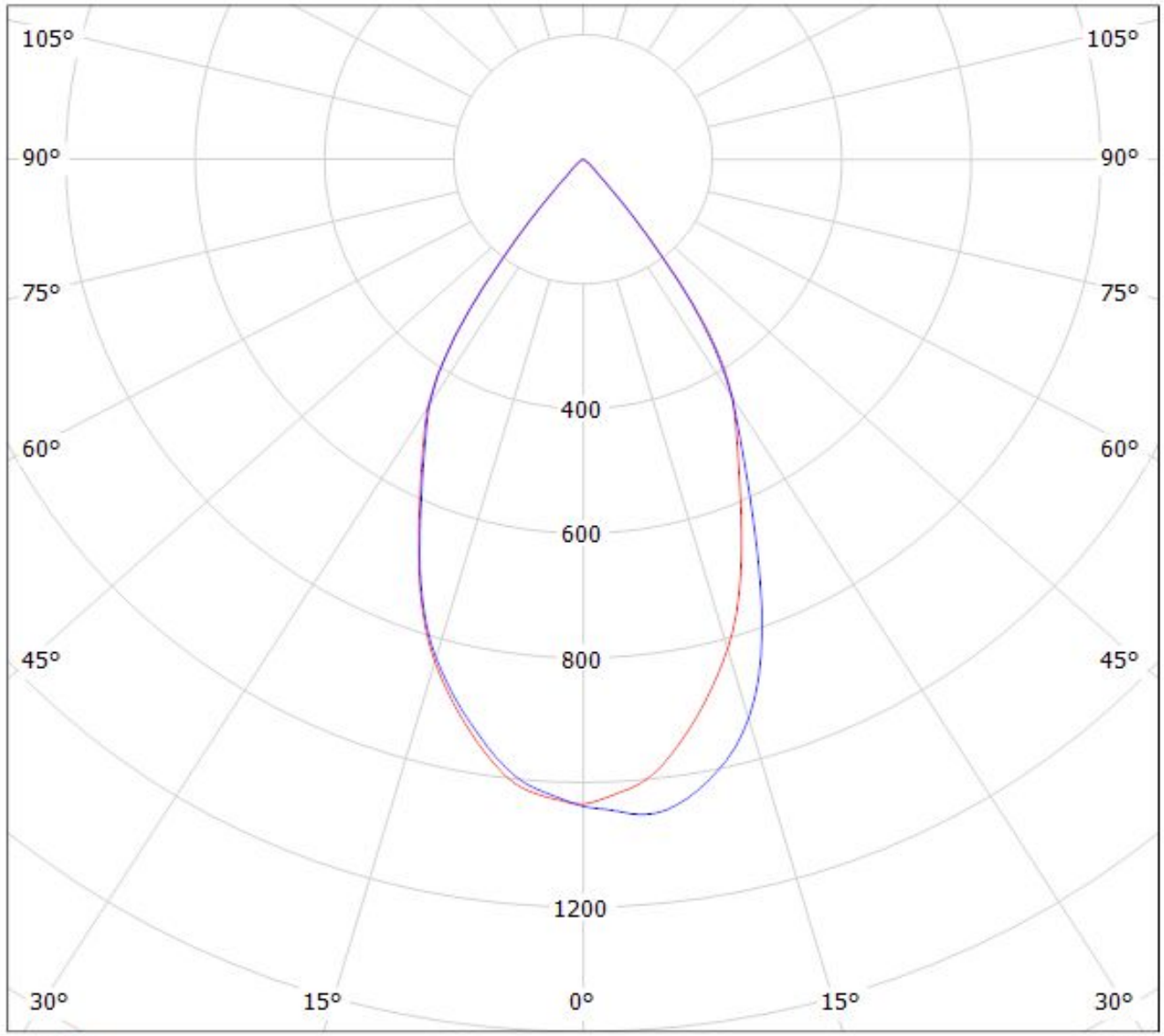
Luminaire: LEDiL Oy CN12936_LENINA-M-DL_(Luxeon_K16) Eff.78.5%
Lamps: 1 x Luxeon_K16 (1208.05lm@250mA)



cd/klm
— C0 - C180 — C90 - C270

$\eta = 78\%$

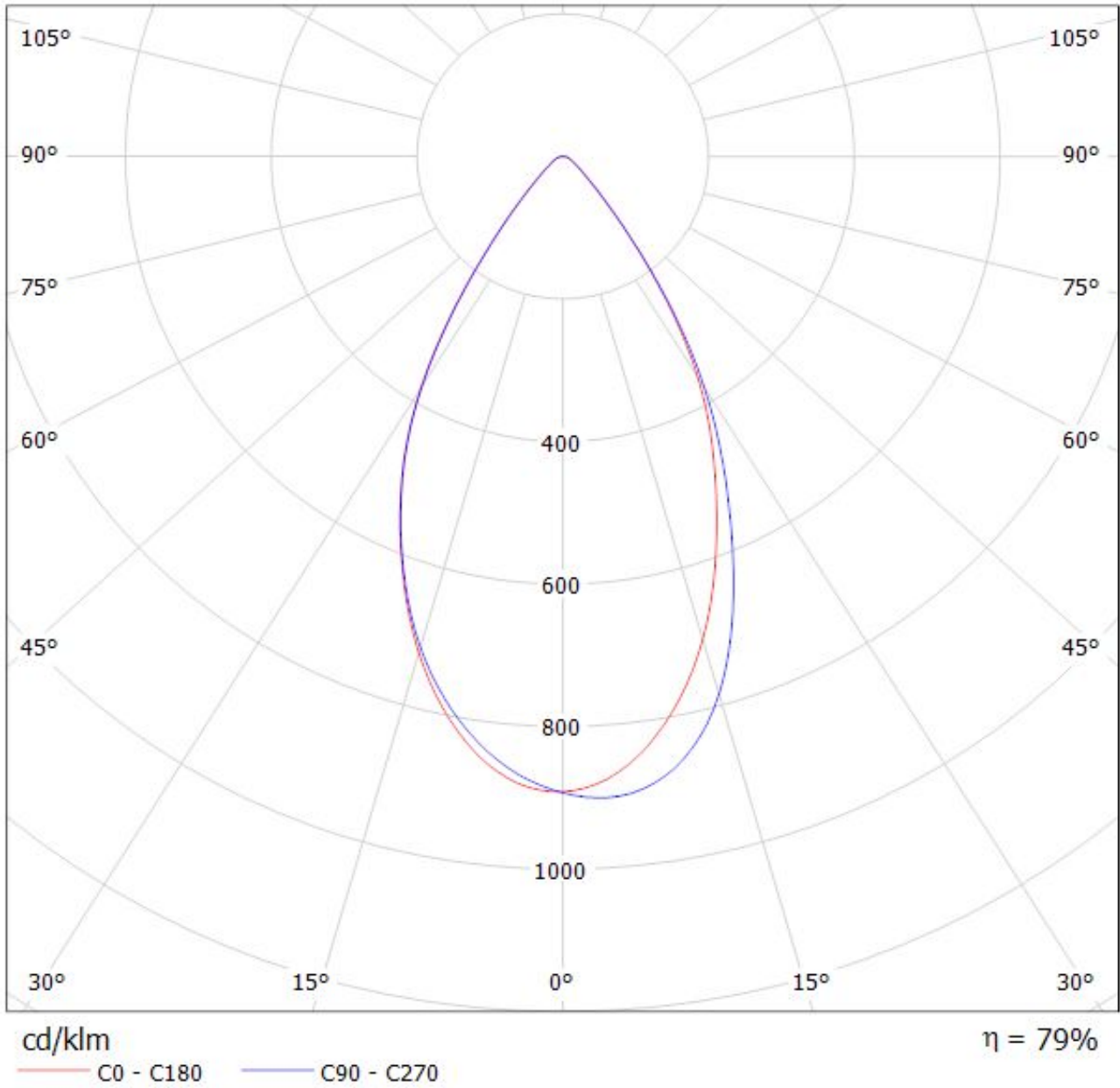
Luminaire: LEDiL Oy CN12934_LENINA-W_(Luxeon_K16) Eff.85.2%
Lamps: 1 x Luxeon_K16 (1208.05lm@250mA)



cd/klm
— C0 - C180 — C90 - C270

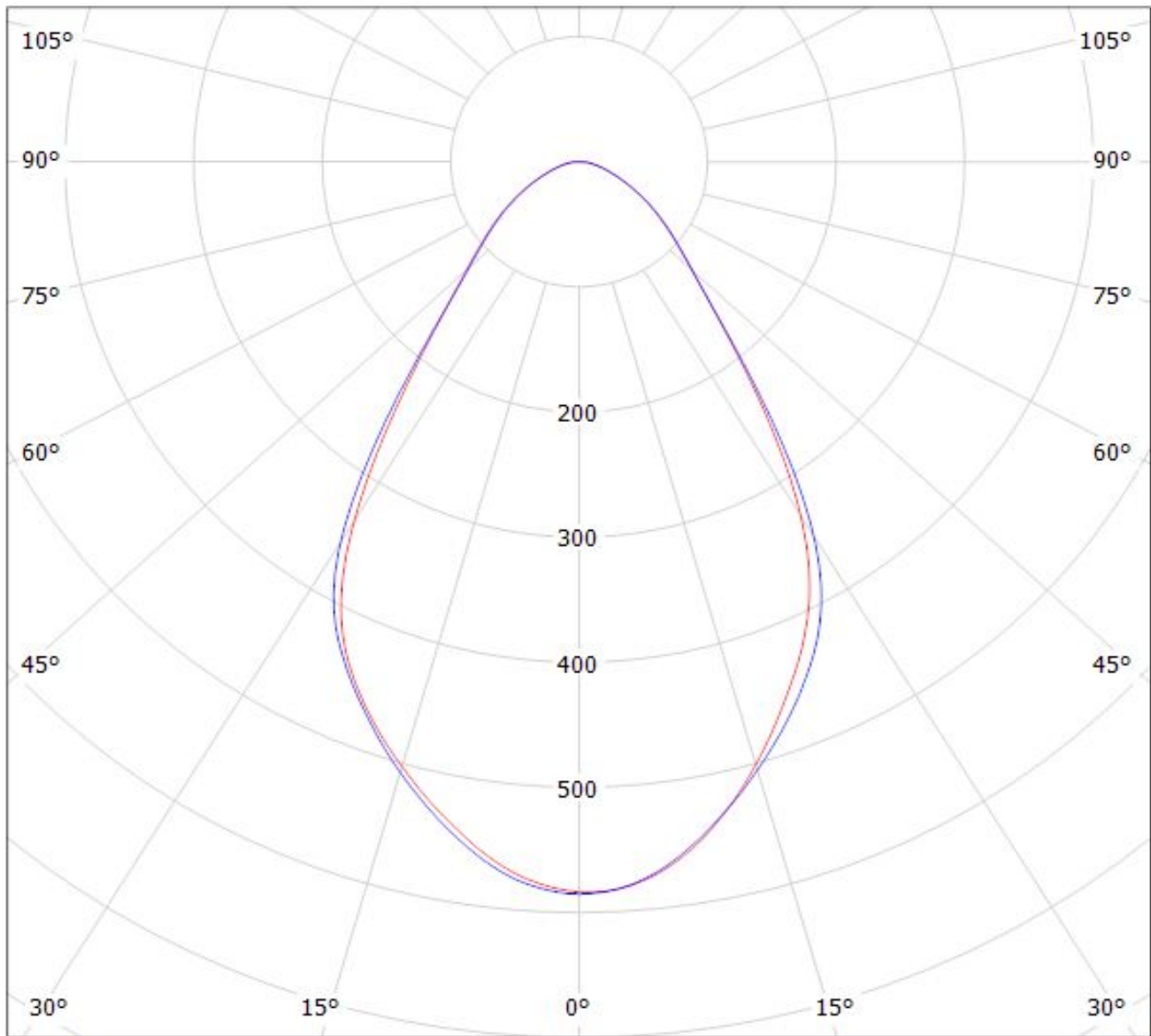
$\eta = 85\%$

Luminaire: LEDiL Oy CN12937_LENINA-W-DL_(Luxeon_K16) Eff.78.6%
Lamps: 1 x Luxeon_K16 (1208.05lm@250mA)



Luminaire: LEDiL Oy CN12977_LENINA-XW-DL_(Luxeon_K16) Eff.79.7%

Lamps: 1 x Luxeon_K16 (1208.05lm@250mA)



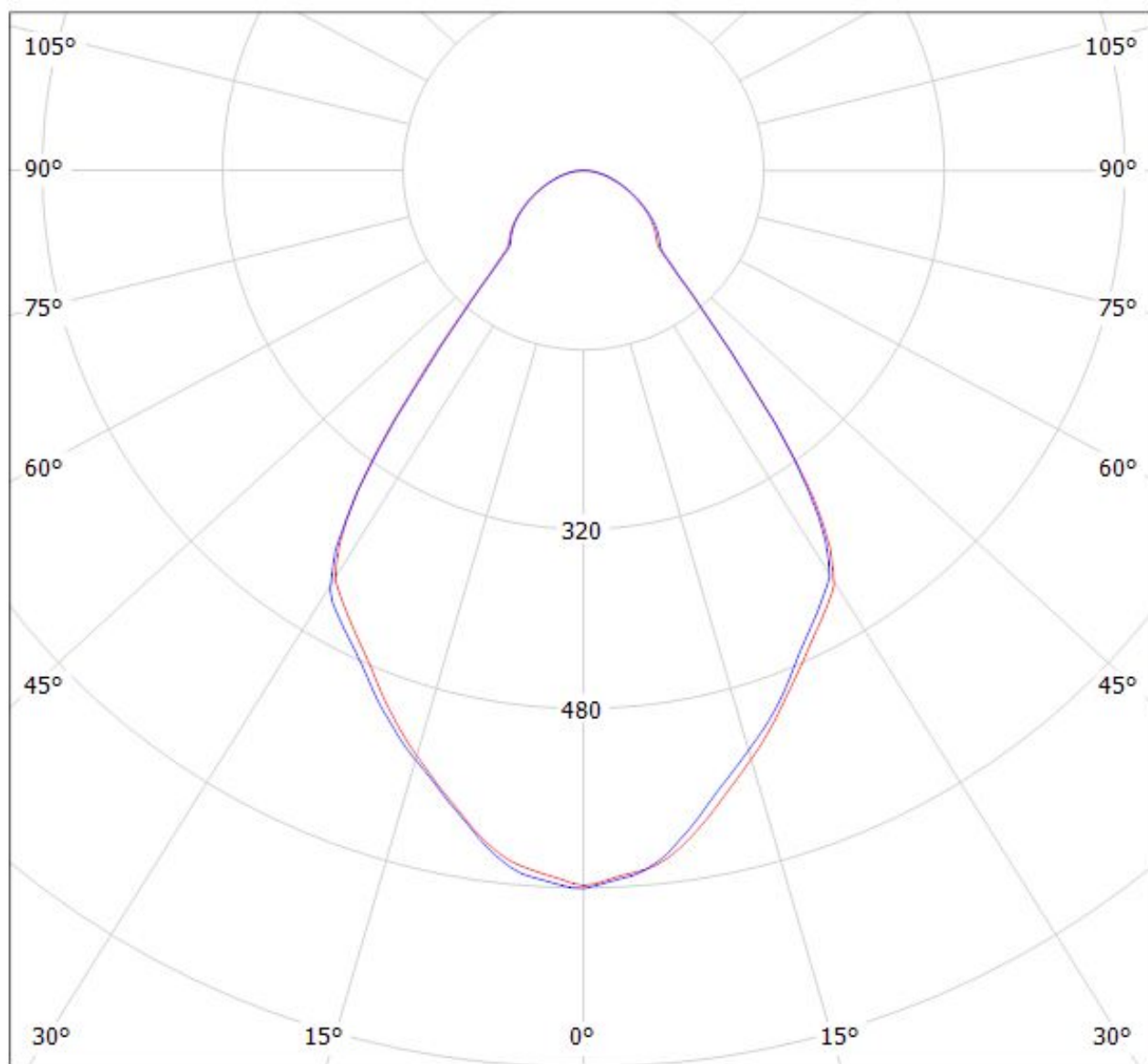
cd/klm

— C0 - C180

— C90 - C270

$\eta = 80\%$

Luminaire: LEDiL Oy CN12966_LENINA-XW_(Luxeon_K16) Eff.85.6%
Lamps: 1 x Luxeon_K16 (1208.05lm@250mA)



cd/klm

— C0 - C180 — C90 - C270

$\eta = 86\%$