

**Ordering number FCX10856_RES-RS**

| | | | |
|-----------------|-----------------|-------------|------------|
| Family | Rose | FWHM | 10 degrees |
| Type | Pack | Efficiency | 87 % |
| LED | LUXEON Rebel ES | cd/Im | 15.000 |
| Color | White | Gerber File | Available |
| Diameter | 21.6 + 21.6 mm | | |
| Height | 12.9 mm | | |
| Style | Square | | |
| Optic Material | PC | | |
| Holder Material | PC | | |
| Fastening | Tape | | |
| Status | On production | | |

**Ordering number FCX10852_RES-D**

| | | | |
|-----------------|-----------------|-------------|------------|
| Family | Rose | FWHM | 13 degrees |
| Type | Pack | Efficiency | 86 % |
| LED | LUXEON Rebel ES | cd/Im | 10.000 |
| Color | White | Gerber File | Available |
| Diameter | 21.6 + 21.6 mm | | |
| Height | 12.9 mm | | |
| Style | Square | | |
| Optic Material | PC | | |
| Holder Material | PC | | |
| Fastening | Tape | | |
| Status | On production | | |

**Ordering number FCX10853_RES-SS**

| | | | |
|-----------------|-----------------|-------------|------------|
| Family | Rose | FWHM | 14 degrees |
| Type | Pack | Efficiency | 86 % |
| LED | LUXEON Rebel ES | cd/Im | 10.000 |
| Color | White | Gerber File | Available |
| Diameter | 21.6 + 21.6 mm | | |
| Height | 12.9 mm | | |
| Style | Square | | |
| Optic Material | PC | | |
| Holder Material | PC | | |
| Fastening | Tape | | |
| Status | On production | | |

**Ordering number FCX10851_RES-M**

| | | | |
|-----------------|-----------------|-------------|------------|
| Family | Rose | FWHM | 29 degrees |
| Type | Pack | Efficiency | 84 % |
| LED | LUXEON Rebel ES | cd/Im | 2.700 |
| Color | White | Gerber File | Available |
| Diameter | 21.6 + 21.6 mm | | |
| Height | 12.9 mm | | |
| Style | Square | | |
| Optic Material | PC | | |
| Holder Material | PC | | |
| Fastening | Tape | | |
| Status | On production | | |

**Ordering number FCX10855_RES-W**

| | | | |
|-----------------|-----------------|-------------|------------|
| Family | Rose | FWHM | 41 degrees |
| Type | Pack | Efficiency | 80 % |
| LED | LUXEON Rebel ES | cd/Im | 1.500 |
| Color | White | Gerber File | Available |
| Diameter | 21.6 + 21.6 mm | | |
| Height | 12.9 mm | | |
| Style | Square | | |
| Optic Material | PC | | |
| Holder Material | PC | | |
| Fastening | Tape | | |
| Status | On production | | |

**Ordering number FCX10854_RES-O**

| | | | |
|-----------------|-----------------|-------------|---------------|
| Family | Rose | FWHM | 47+14 degrees |
| Type | Pack | Efficiency | 81 % |
| LED | LUXEON Rebel ES | cd/Im | 3.000 |
| Color | White | Gerber File | Available |
| Diameter | 21.6 + 21.6 mm | | |
| Height | 12.9 mm | | |
| Style | Square | | |
| Optic Material | PC | | |
| Holder Material | PC | | |
| Fastening | Tape | | |
| Status | On production | | |

**Ordering number FCX11675_RES-WW**

| | | | |
|-----------------|-----------------|-------------|-------------------|
| Family | Rose | FWHM | 60 degrees |
| Type | Pack | Efficiency | 80 % |
| LED | LUXEON Rebel ES | cd/Im | (simulated) 0.850 |
| Color | White | Gerber File | Available |
| Diameter | 21.6 + 21.6 mm | | |
| Height | 12.9 mm | | |
| Style | Square | | |
| Optic Material | PC | | |
| Holder Material | PC | | |
| Fastening | Tape | | |
| Status | On production | | |

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

Rose series

last update 18/3/2013

PHILIPS
LUMILEDS

GENERAL INFORMATION

- Product series especially designed & optimized for LUXEON Rebel ES 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

- Optic holder molded by high quality PC material (120 dergees of Celcius / 248 degrees of Fahrenheit).

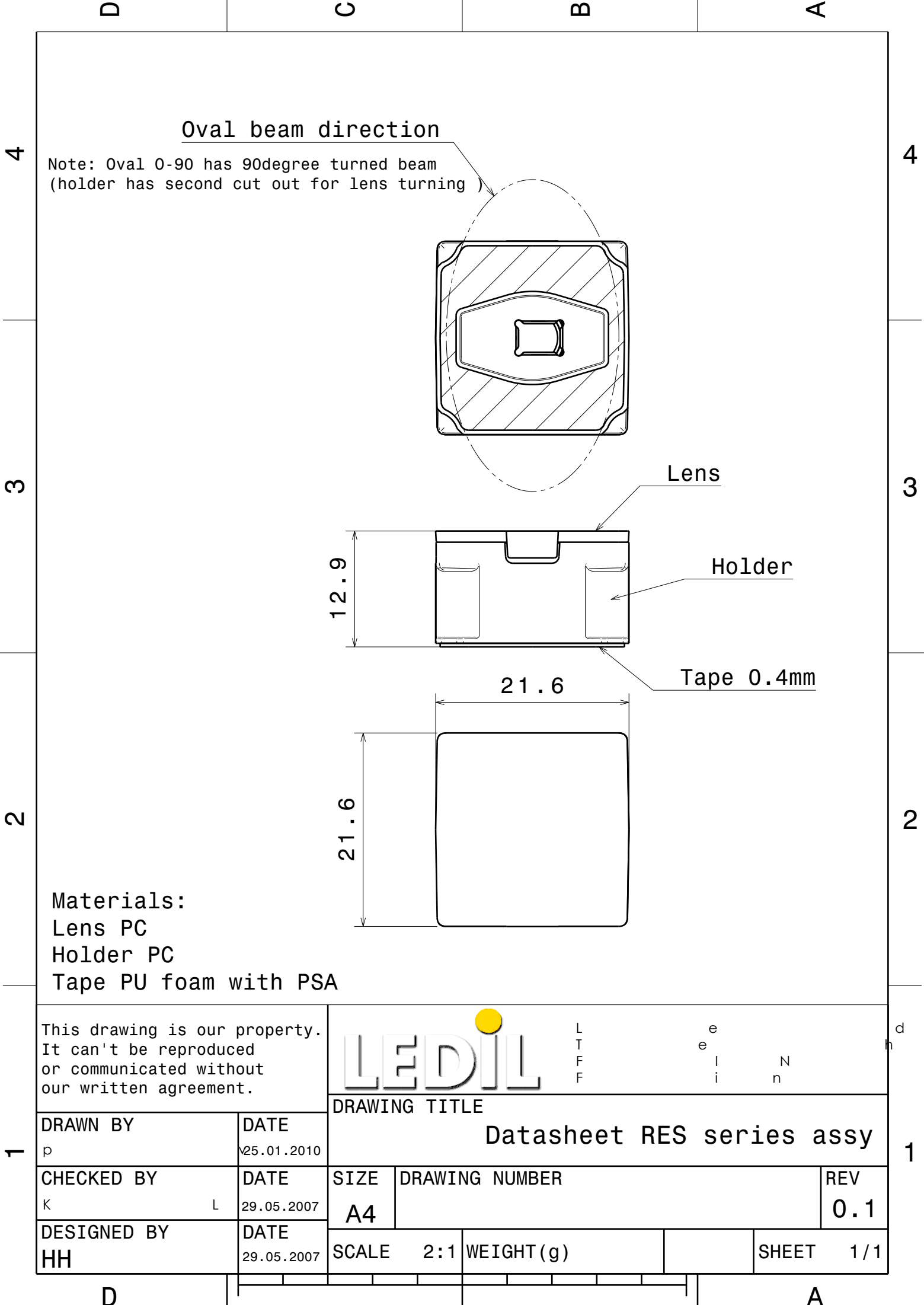
- Fastening to heat sink with a PU foam adhesive tape of automotive grade. Please find fastening details by clicking link: http://www.ledil.com/datasheets/DataSheet_TAPE.pdf

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 tape.

NOTE 2: Assembly to the surface must be made straight, so the tape bonds constant and balanced with fastening surface. Slanted assembly might cause unbalanced bond to the surface. All surfaces where tape 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.

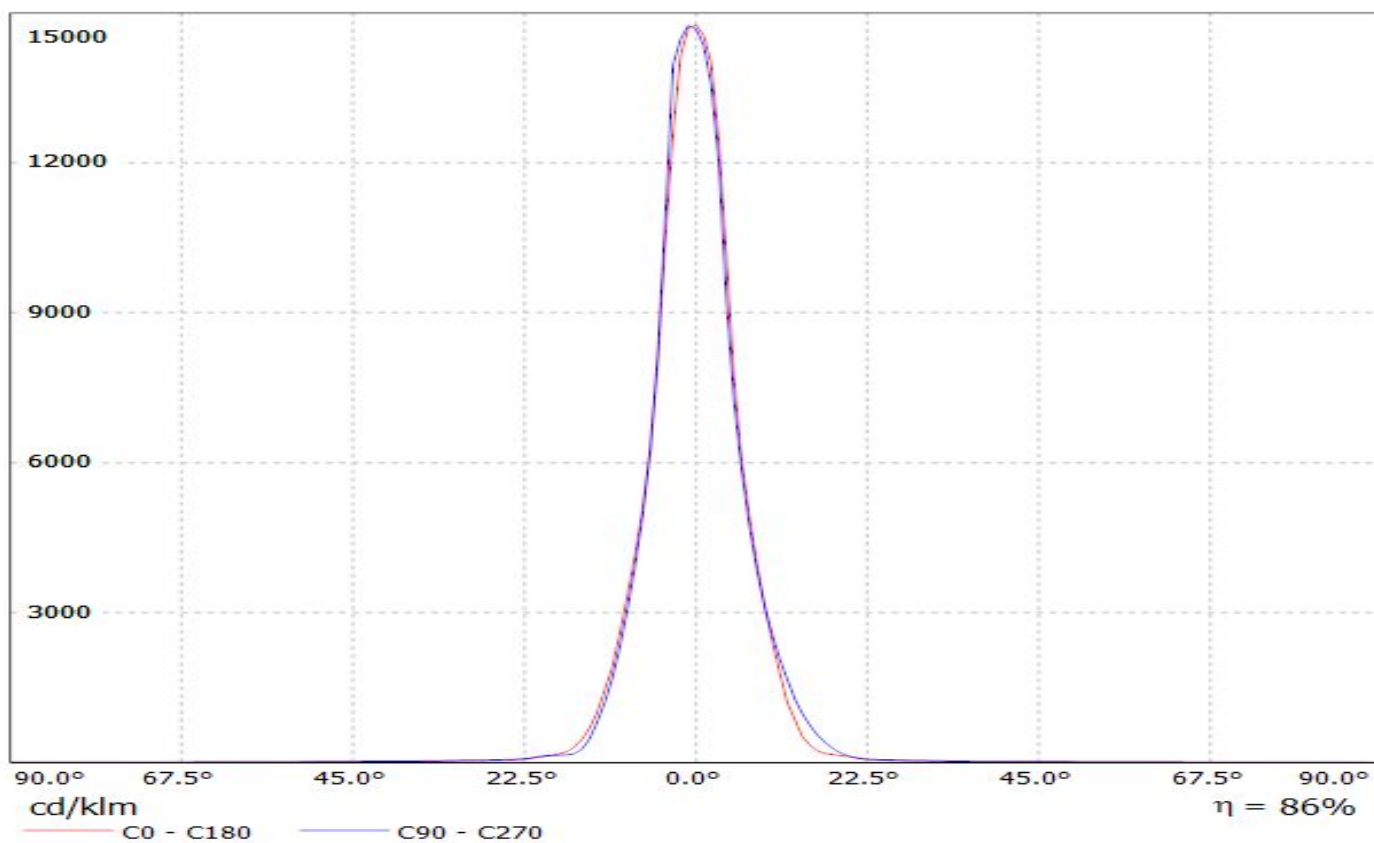
Further note that optical components shall not be cleaned with any chemicals - only micro fiber cloth may be used to remove fingerprints or other traces from handling.



LEDiL Oy FCX10856_RES-RS_(RE-ES) Eff.86.5% / LDC (Linear)

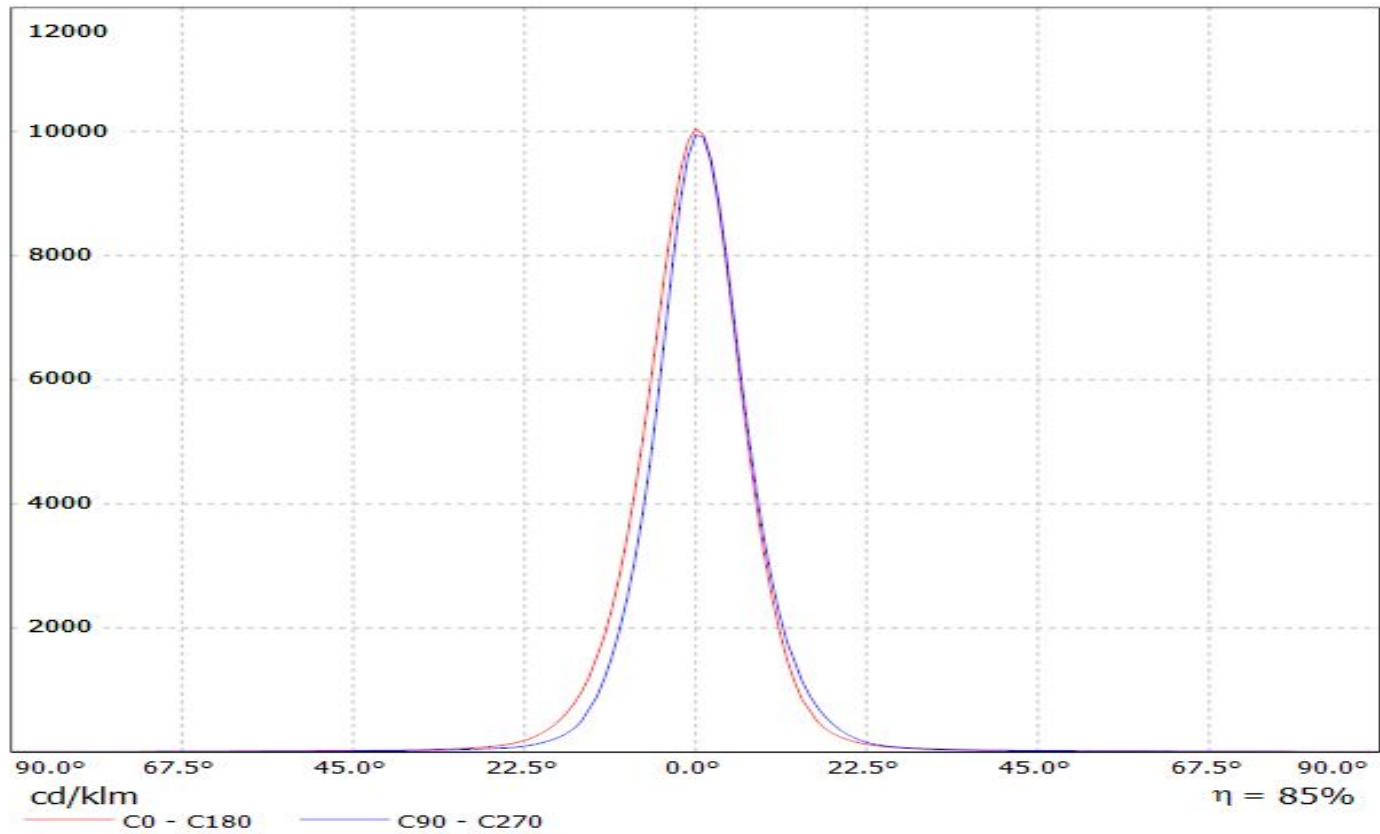
Luminaire: LEDiL Oy FCX10856_RES-RS_(RE-ES) Eff.86.5%

Lamps: 1 x LUXEON_REBEL-ES (91.8038lm@250mA)



LEDiL Oy FCX10852_RES-D_(RE-ES) Eff.85.7% / LDC (Linear)

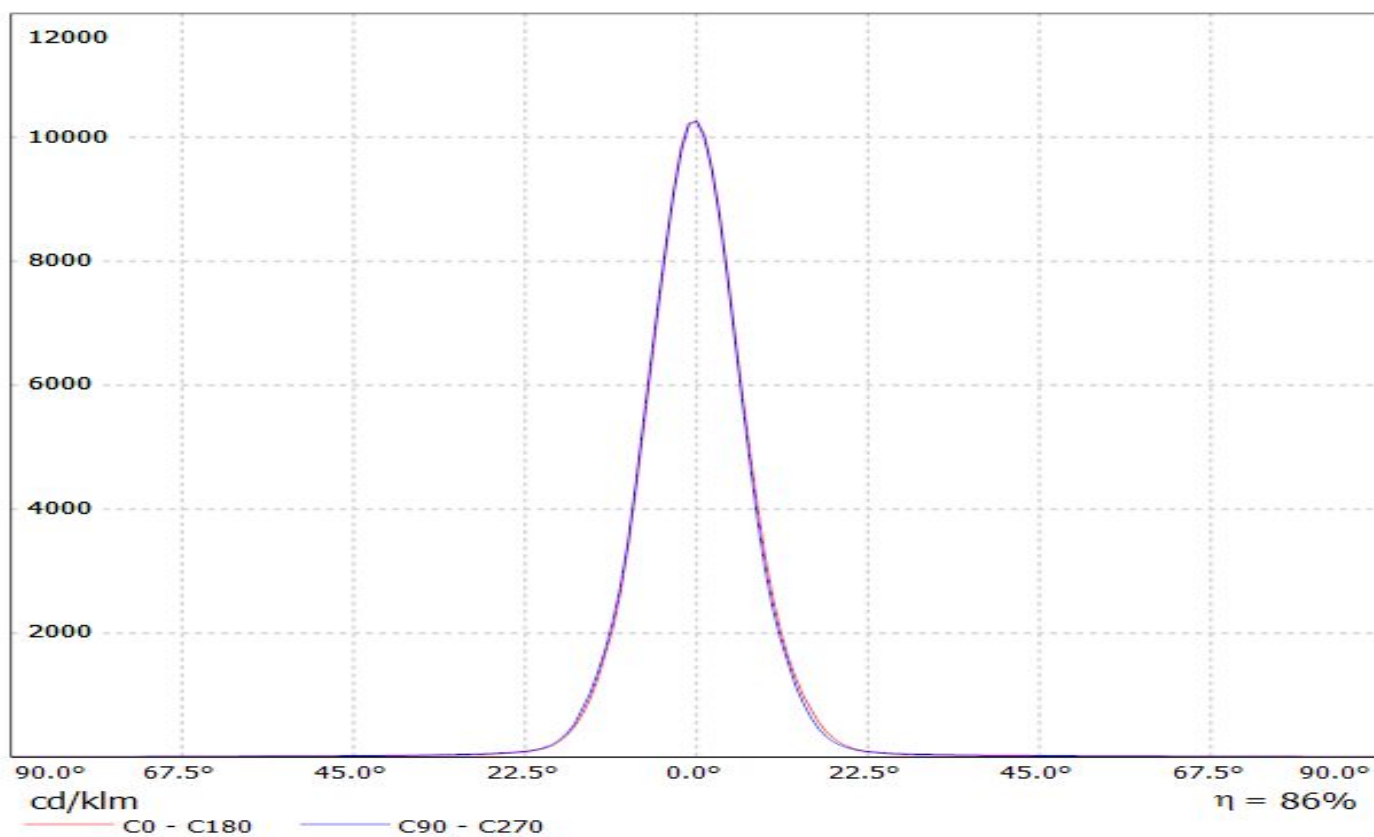
Luminaire: LEDiL Oy FCX10852_RES-D_(RE-ES) Eff.85.7%
Lamps: 1 x LUXEON_REBEL-ES (91.8038lm@250mA)



LEDiL Oy FCX10853_RES-SS_(RE-ES) Eff.86.0% / LDC (Linear)

Luminaire: LEDiL Oy FCX10853_RES-SS_(RE-ES) Eff.86.0%

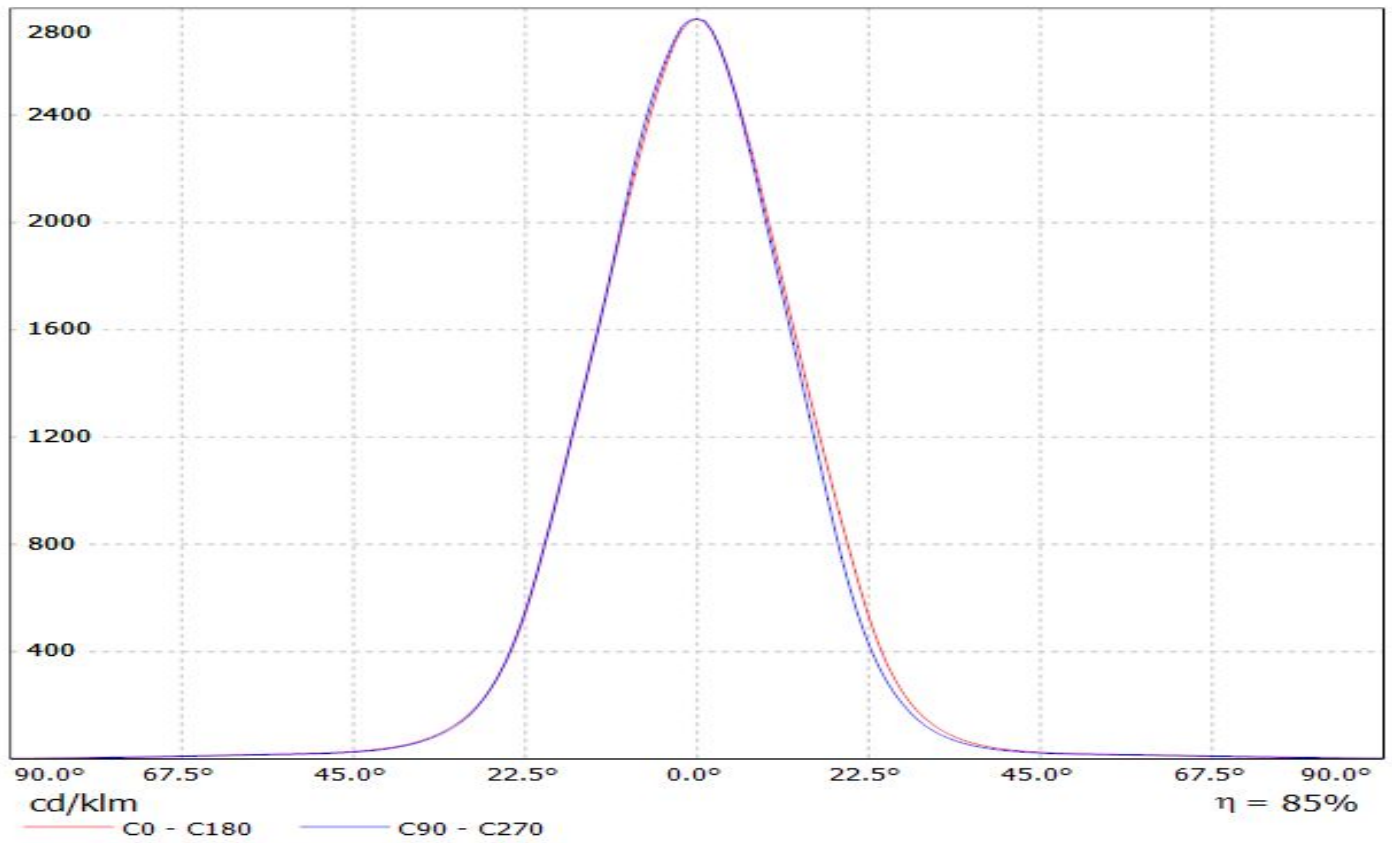
Lamps: 1 x LUXEON_REBEL-ES (91.8038lm@250mA)



LEDiL Oy FCX10851_RES-M_(RE-ES) Eff.84.7% / LDC (Linear)

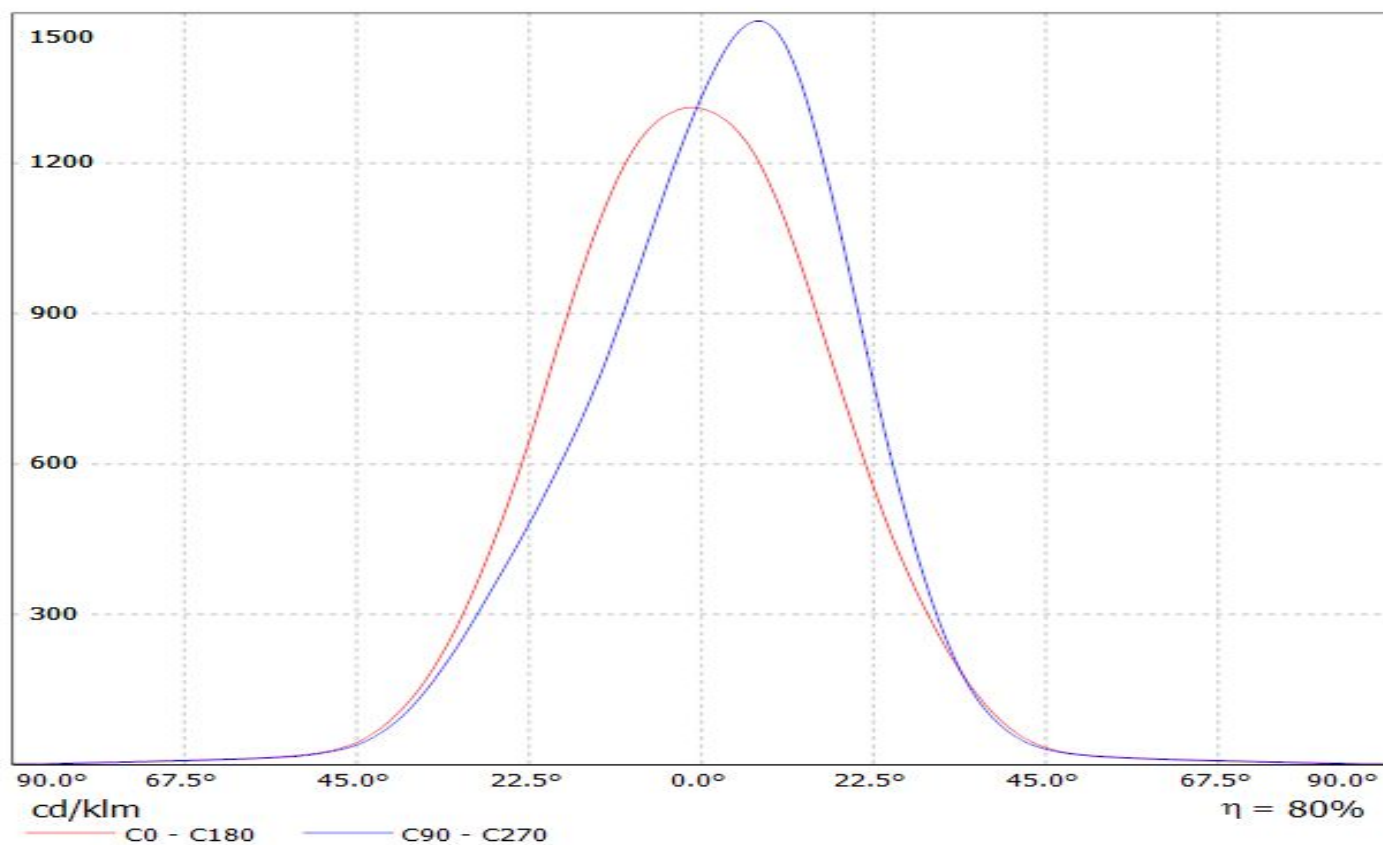
Luminaire: LEDiL Oy FCX10851_RES-M_(RE-ES) Eff.84.7%

Lamps: 1 x LUXEON_REBEL-ES (91.8038lm@250mA)



LEDiL Oy FCX10855_RES-W _(RE-ES) Eff.80.2% / LDC (Linear)

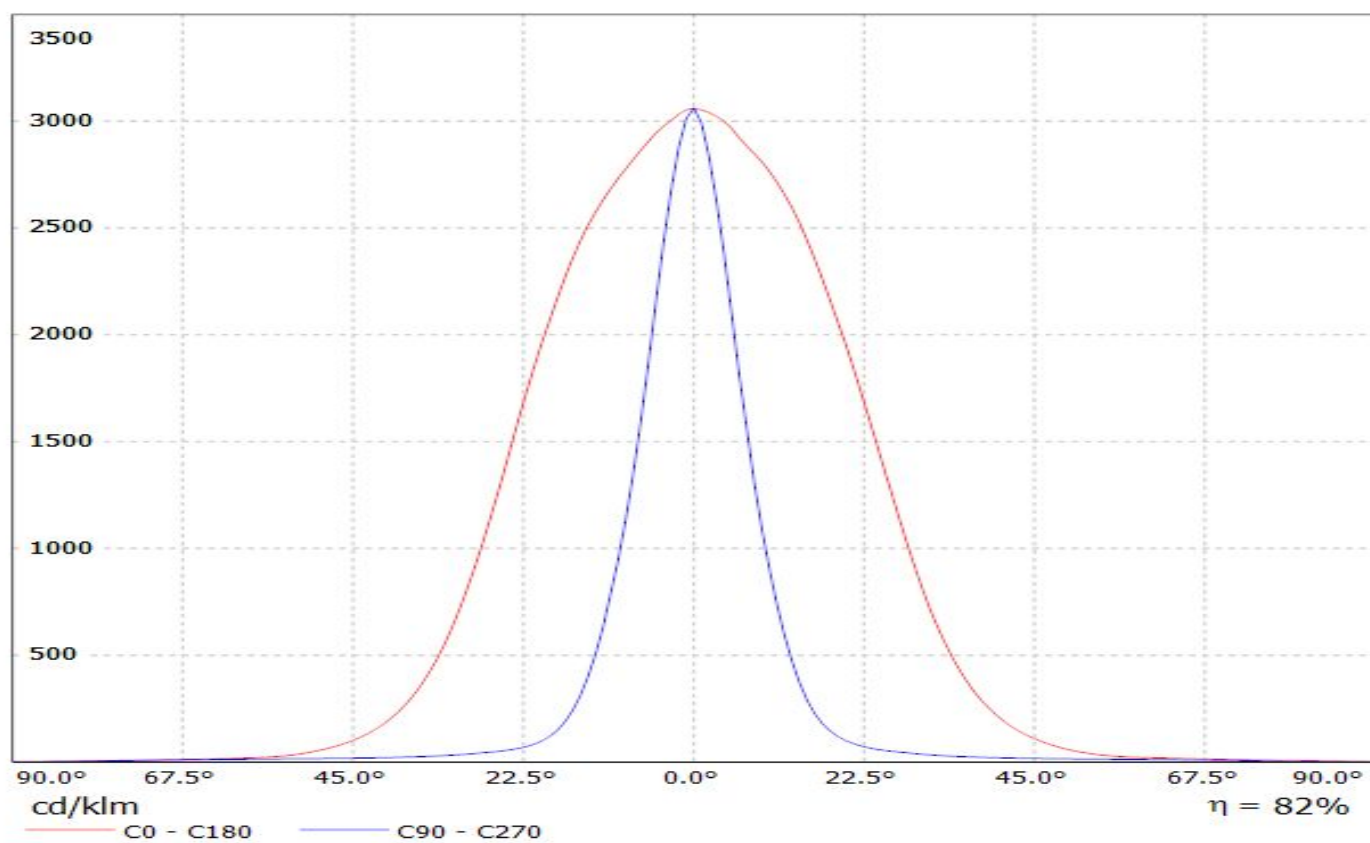
Luminaire: LEDiL Oy FCX10855_RES-W _(RE-ES) Eff.80.2%
Lamps: 1 x LUXEON_REBEL-ES (91.8038lm@250mA)



LEDiL Oy FCX10854_RES-O_(RE-ES) Eff.82% / LDC (Linear)

Luminaire: LEDiL Oy FCX10854_RES-O_(RE-ES) Eff.82%

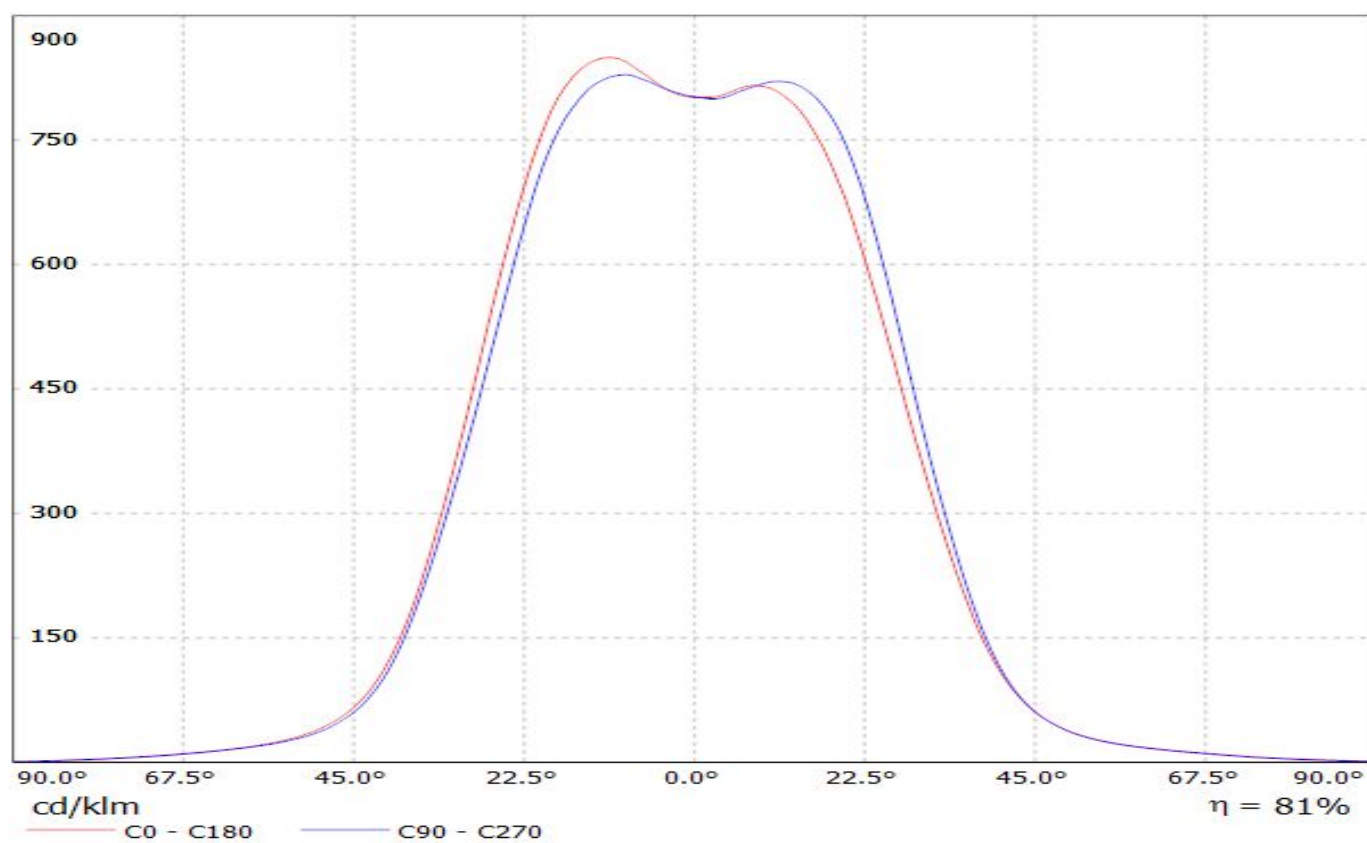
Lamps: 1 x LUXEON_REBEL-ES (91.8038lm@250mA)



LEDiL Oy FCX11675_RES-WW_(RE-ES)_1 Eff.80.7% / LDC (Linear)

Luminaire: LEDiL Oy FCX11675_RES-WW_(RE-ES)_1 Eff.80.7%

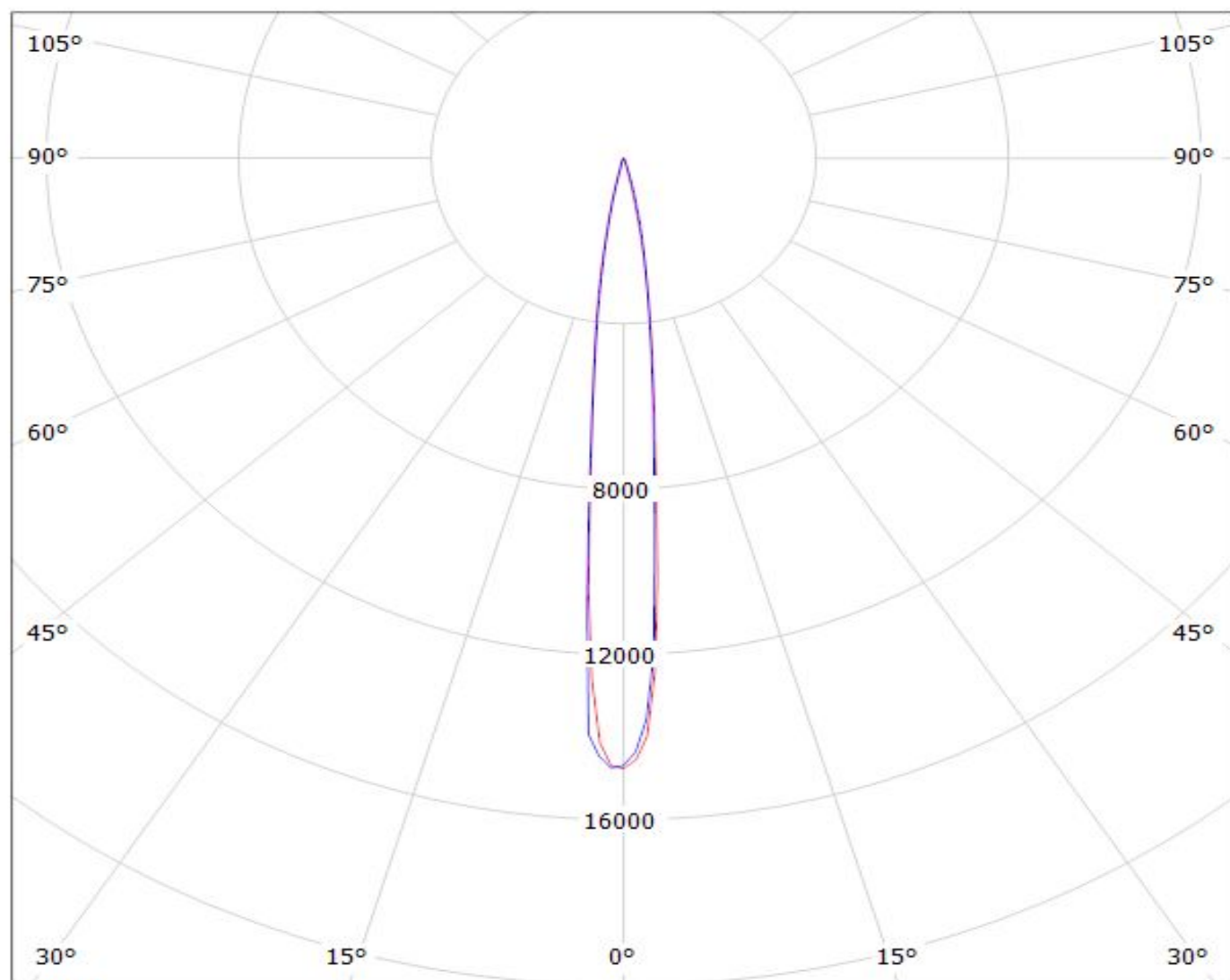
Lamps: 1 x LUXEON_REBEL-ES (91.8038lm@250mA)



LEDiL Oy FCX10856_RES-RS_(RE-ES) Eff.86.5% / LDC (Polar)

Luminaire: LEDiL Oy FCX10856_RES-RS_(RE-ES) Eff.86.5%

Lamps: 1 x LUXEON_REBEL-ES (91.8038lm@250mA)



cd/klm

— C0 - C180

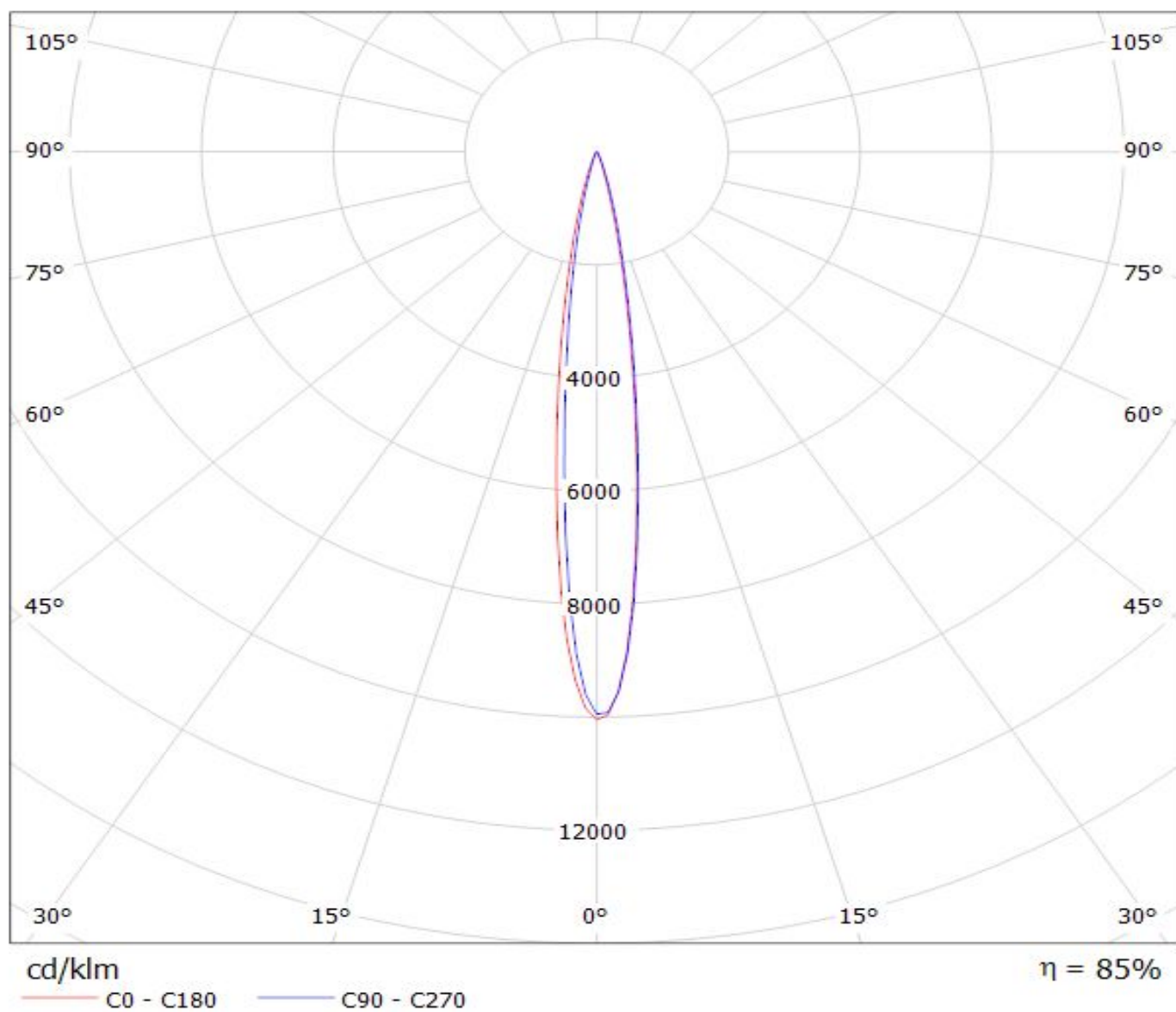
— C90 - C270

$\eta = 86\%$

LEDiL Oy FCX10852_RES-D_(RE-ES) Eff.85.7% / LDC (Polar)

Luminaire: LEDiL Oy FCX10852_RES-D_(RE-ES) Eff.85.7%

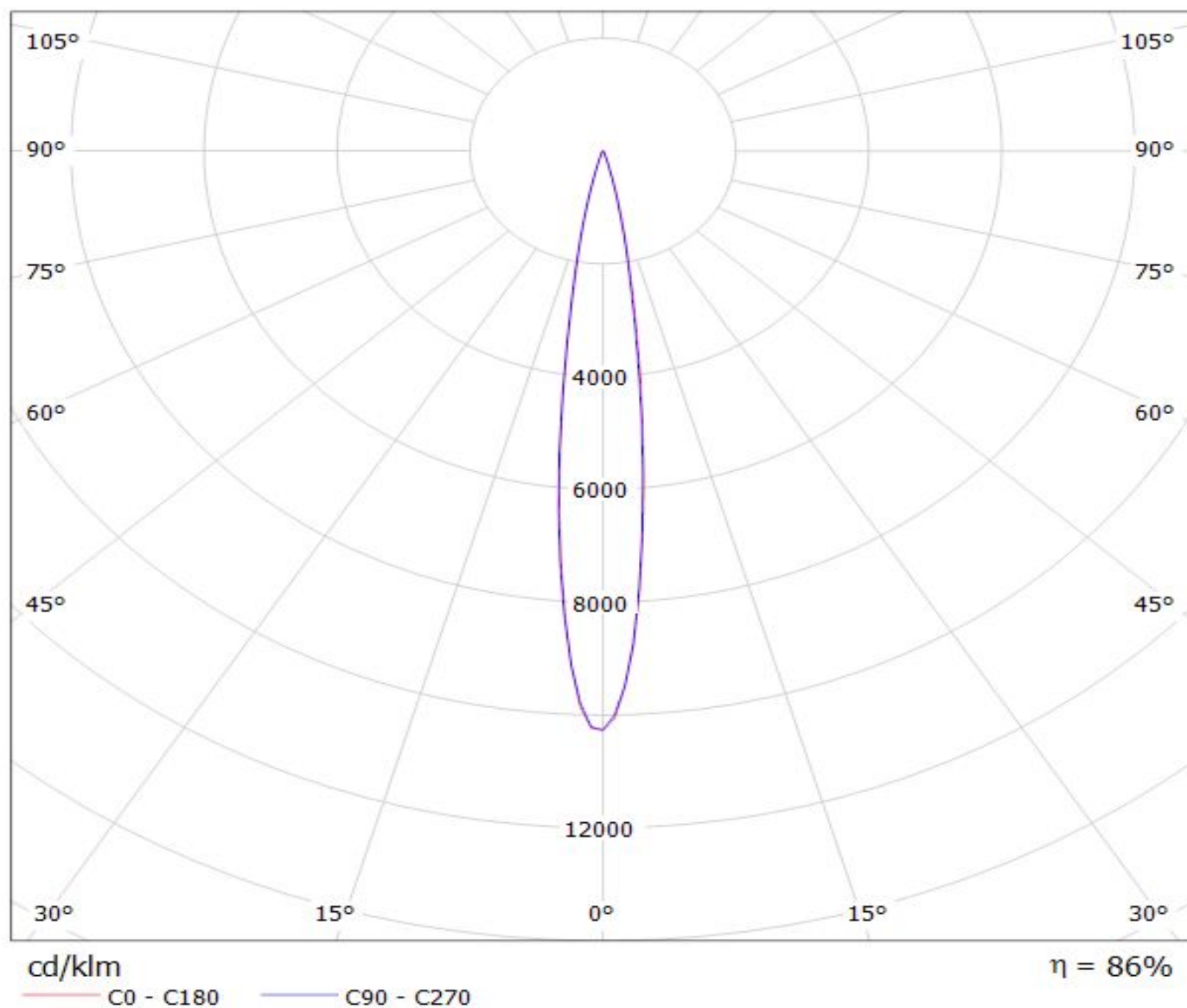
Lamps: 1 x LUXEON_REBEL-ES (91.8038lm@250mA)



LEDiL Oy FCX10853_RES-SS_(RE-ES) Eff.86.0% / LDC (Polar)

Luminaire: LEDiL Oy FCX10853_RES-SS_(RE-ES) Eff.86.0%

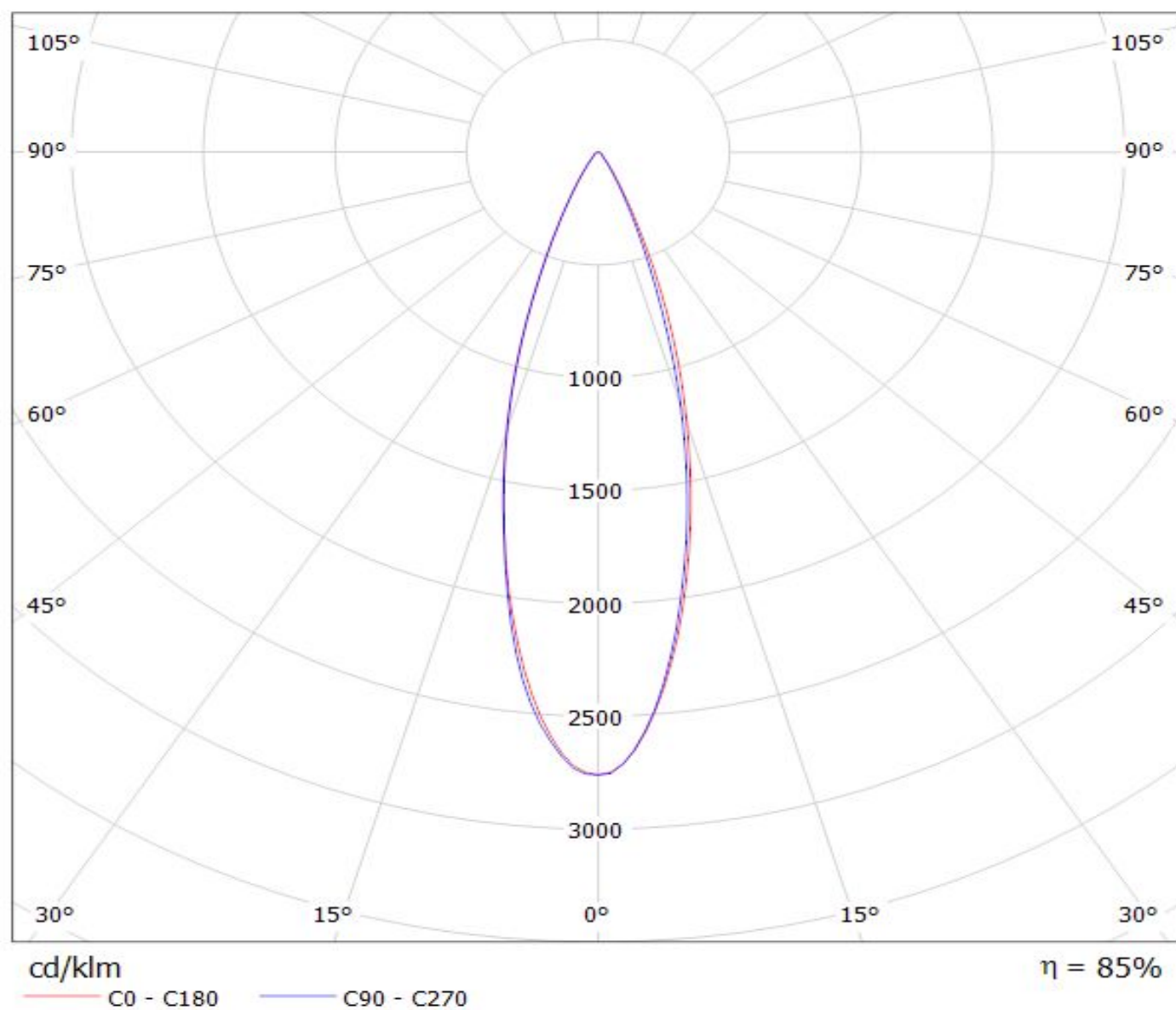
Lamps: 1 x LUXEON_REBEL-ES (91.8038lm@250mA)



LEDiL Oy FCX10851_RES-M_(RE-ES) Eff.84.7% / LDC (Polar)

Luminaire: LEDiL Oy FCX10851_RES-M_(RE-ES) Eff.84.7%

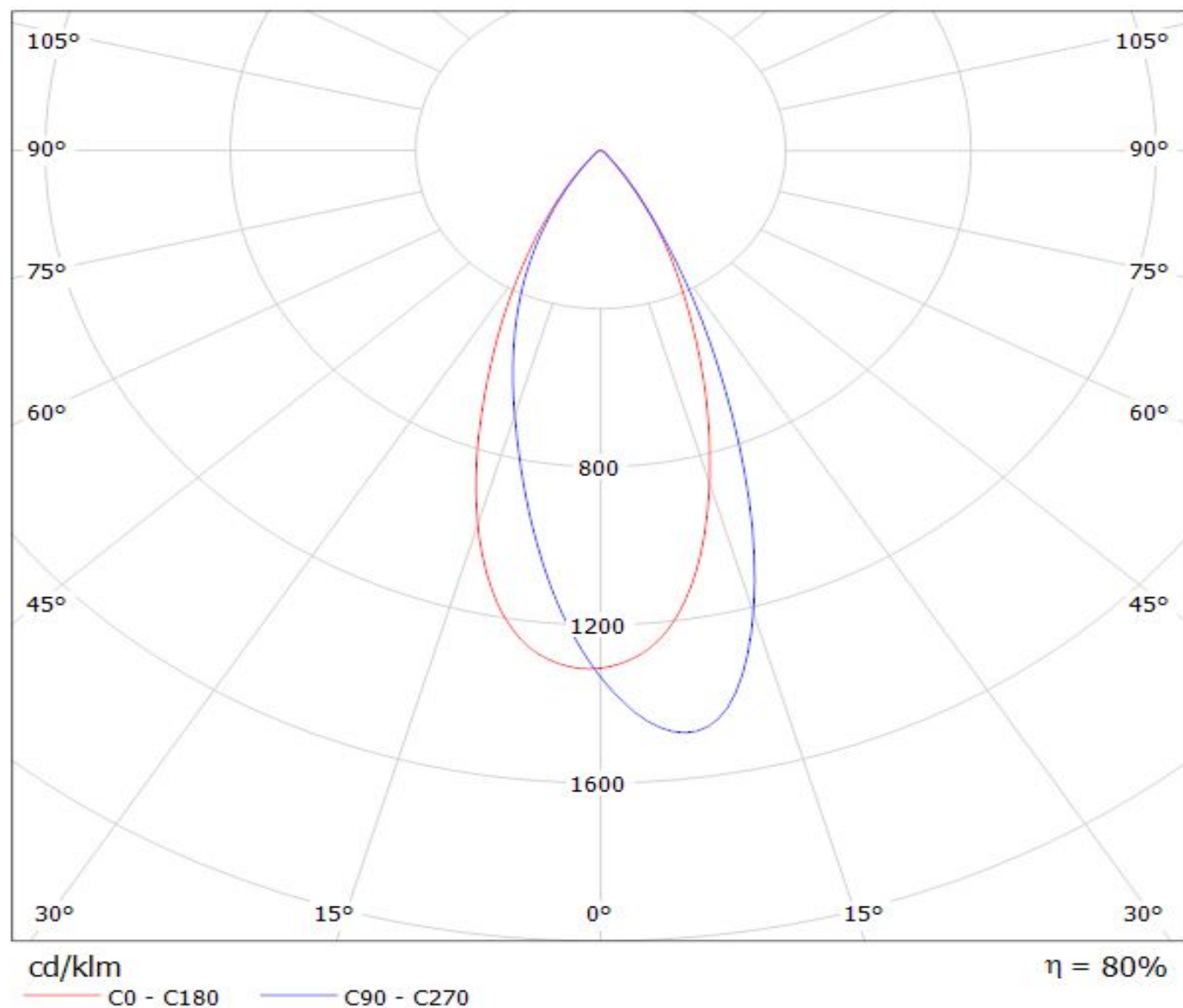
Lamps: 1 x LUXEON_REBEL-ES (91.8038lm@250mA)



LEDiL Oy FCX10855_RES-W _(RE-ES) Eff.80.2% / LDC (Polar)

Luminaire: LEDiL Oy FCX10855_RES-W _(RE-ES) Eff.80.2%

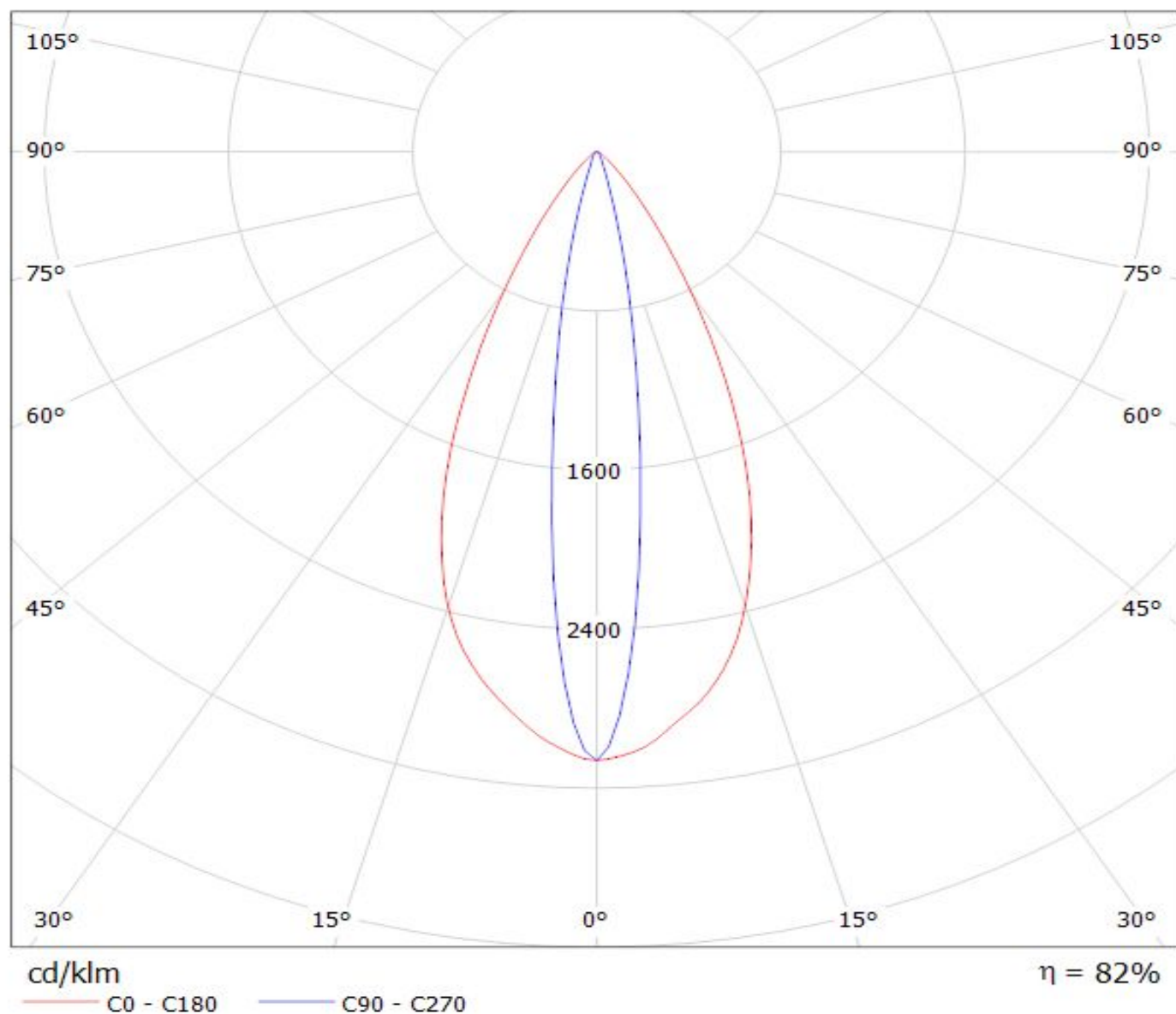
Lamps: 1 x LUXEON_REBEL-ES (91.8038lm@250mA)



LEDiL Oy FCX10854_RES-O_(RE-ES) Eff.82% / LDC (Polar)

Luminaire: LEDiL Oy FCX10854_RES-O_(RE-ES) Eff.82%

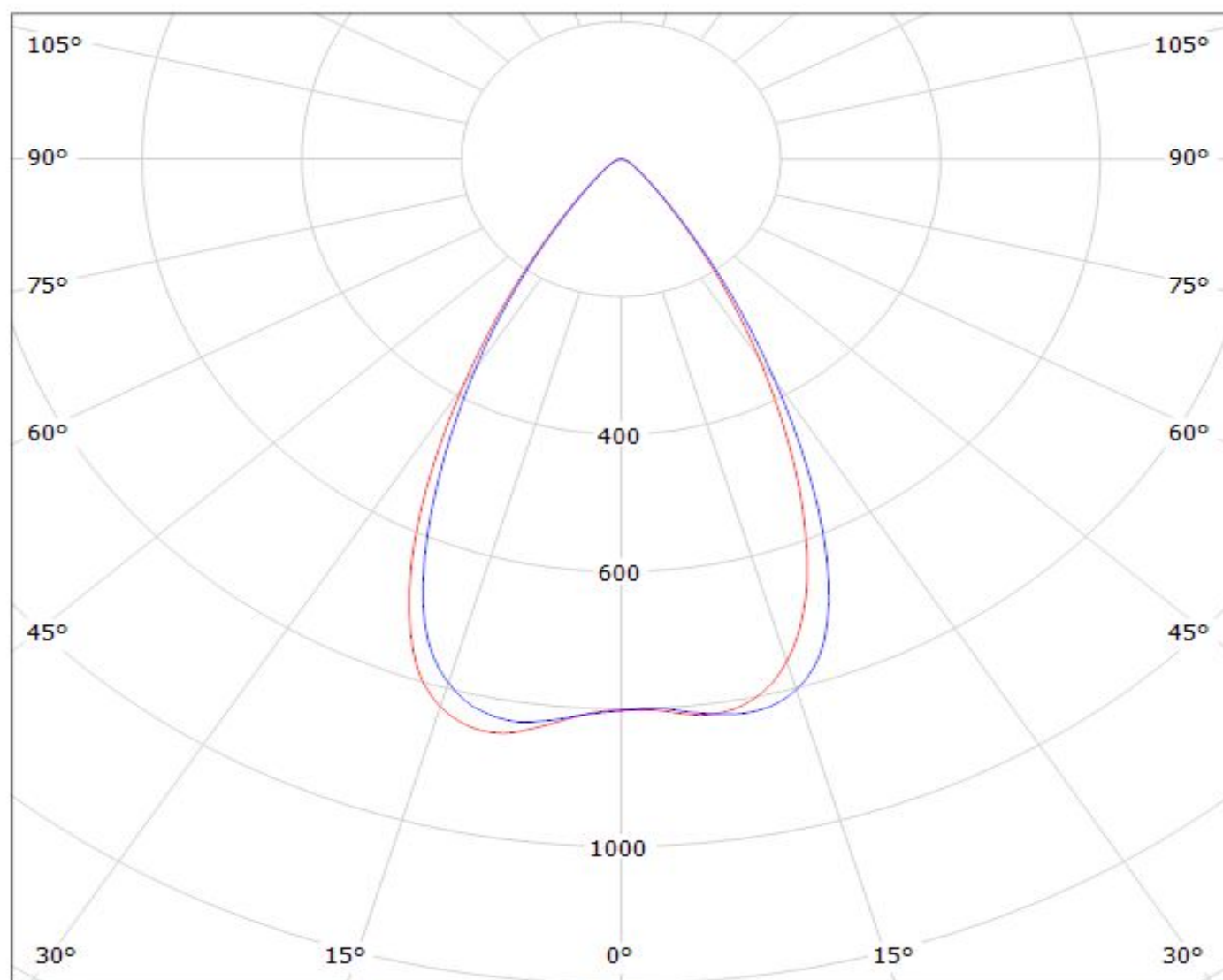
Lamps: 1 x LUXEON_REBEL-ES (91.8038lm@250mA)



LEDiL Oy FCX11675_RES-WW_(RE-ES)_1 Eff.80.7% / LDC (Polar)

Luminaire: LEDiL Oy FCX11675_RES-WW_(RE-ES)_1 Eff.80.7%

Lamps: 1 x LUXEON_REBEL-ES (91.8038lm@250mA)



$\eta = 81\%$

cd/klm

— C0 - C180

— C90 - C270