


**Ordering number FCX10856\_RES-RS**

|                 |                |             |           |
|-----------------|----------------|-------------|-----------|
| Family          | Rose           | FWHM        | 8 degrees |
| Type            | Pack           | Efficiency  | 85 %      |
| LED             | LUXEON Rebel   | cd/lm       | 25.980    |
| 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  | 84 %       |
| LED             | LUXEON Rebel   | cd/lm       | 9.660      |
| 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        | 13 degrees |
| Type            | Pack           | Efficiency  | 87 %       |
| LED             | LUXEON Rebel   | cd/lm       | 6.190      |
| 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        | 30 degrees |
| Type            | Pack           | Efficiency  | 83 %       |
| LED             | LUXEON Rebel   | cd/lm       | 3.350      |
| 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        | 31 degrees |
| Type            | Pack           | Efficiency  | 79 %       |
| LED             | LUXEON Rebel   | cd/lm       | 2.310      |
| 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        | 42+13 degrees |
| Type            | Pack           | Efficiency  | 80 %          |
| LED             | LUXEON Rebel   | cd/lm       | 3.960         |
| 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        | 54 degrees        |
| Type            | Pack           | Efficiency  | 79 %              |
| LED             | LUXEON Rebel   | cd/lm       | (simulated) 0.000 |
| 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  |             |                   |

**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 13/6/2013

PHILIPS  
LUMILEDS

#### GENERAL INFORMATION

- Product series especially designed & optimized for LUXEON Rebel 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)

- 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](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.**

D

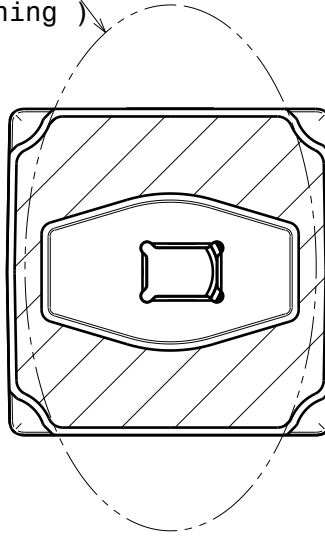
C

B

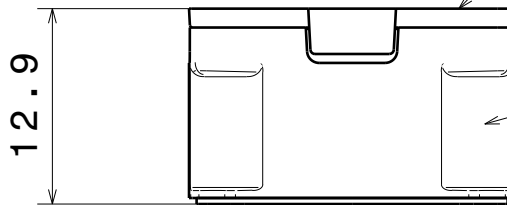
A

Oval beam direction

Note: Oval 0-90 has 90degree turned beam (holder has second cut out for lens turning )



Lens

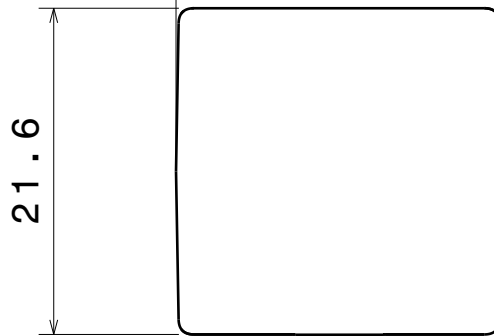


Holder

12.9

21.6

Tape 0.4mm



21.6

Materials:  
 Lens PC  
 Holder PC  
 Tape PU foam with PSA

This drawing is our property.  
 It can't be reproduced  
 or communicated without  
 our written agreement.



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F

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N  
n

d  
h

DRAWING TITLE

Datasheet RES series assy

DRAWN BY

DATE

p

25.01.2010

CHECKED BY

DATE

K

L

29.05.2007

DESIGNED BY

DATE

HH

29.05.2007

SIZE

A4

DRAWING NUMBER

REV

0.1

SCALE

2:1

WEIGHT (g)

SHEET

1/1

D

A

4

4

3

3

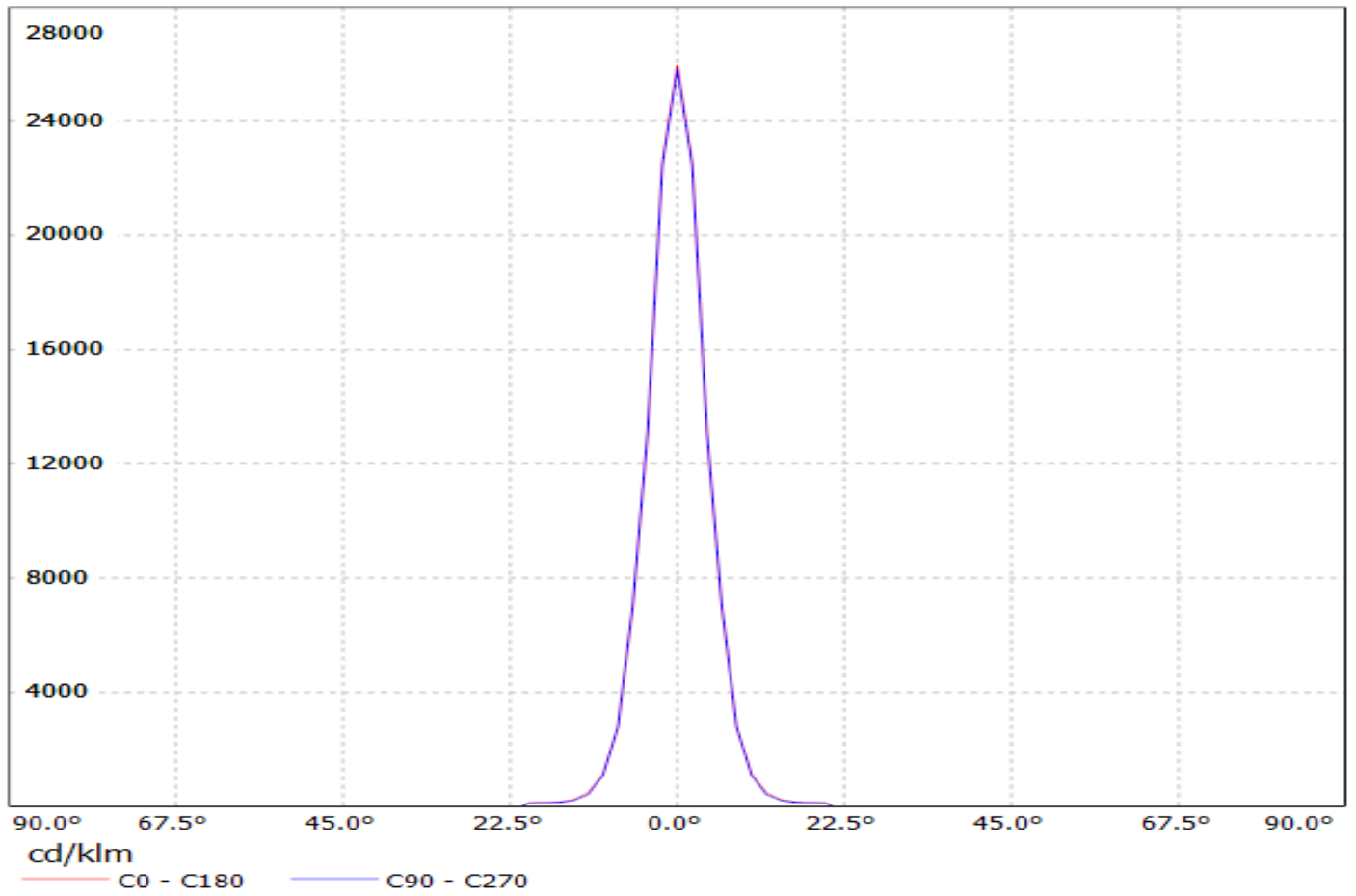
2

2

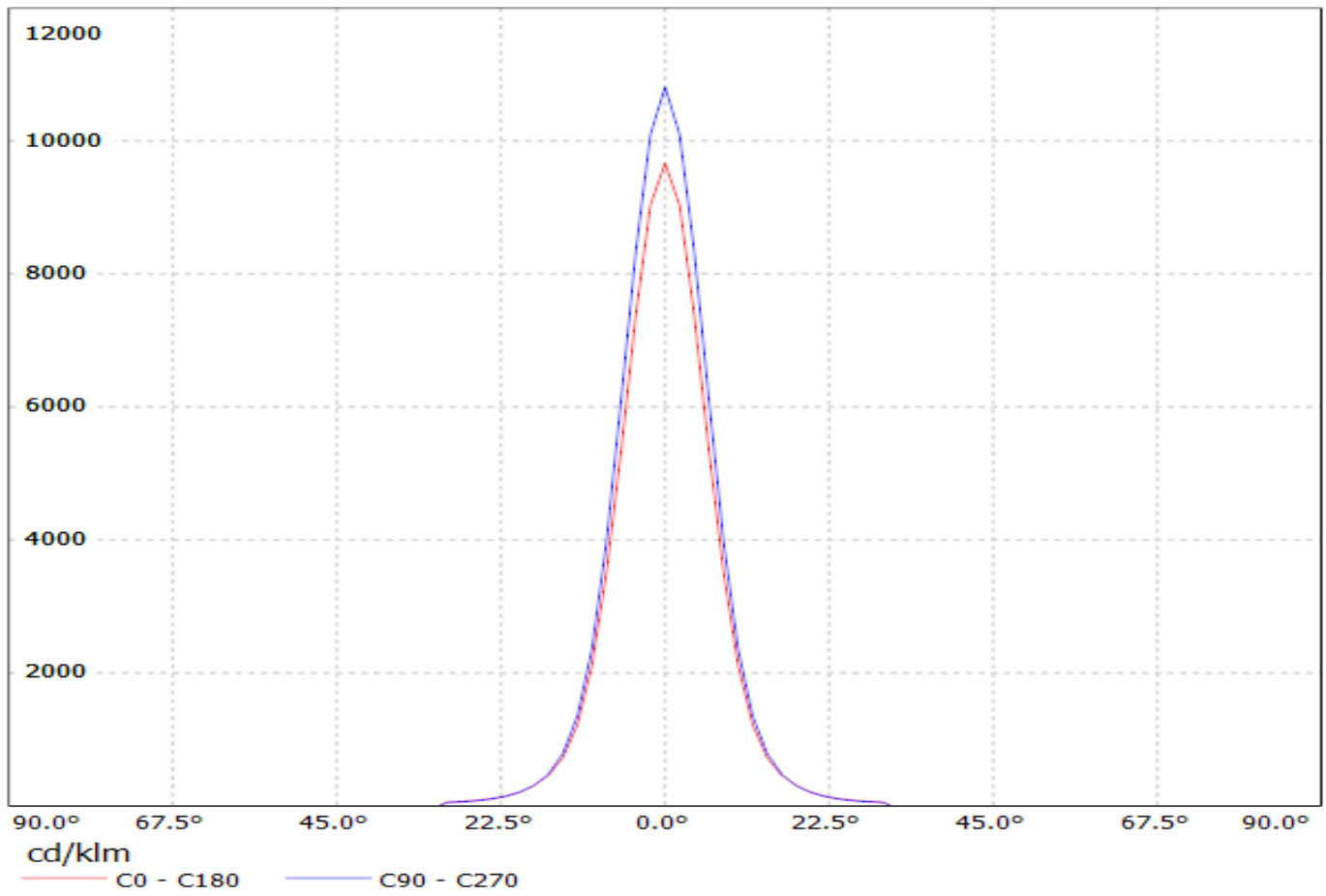
1

1

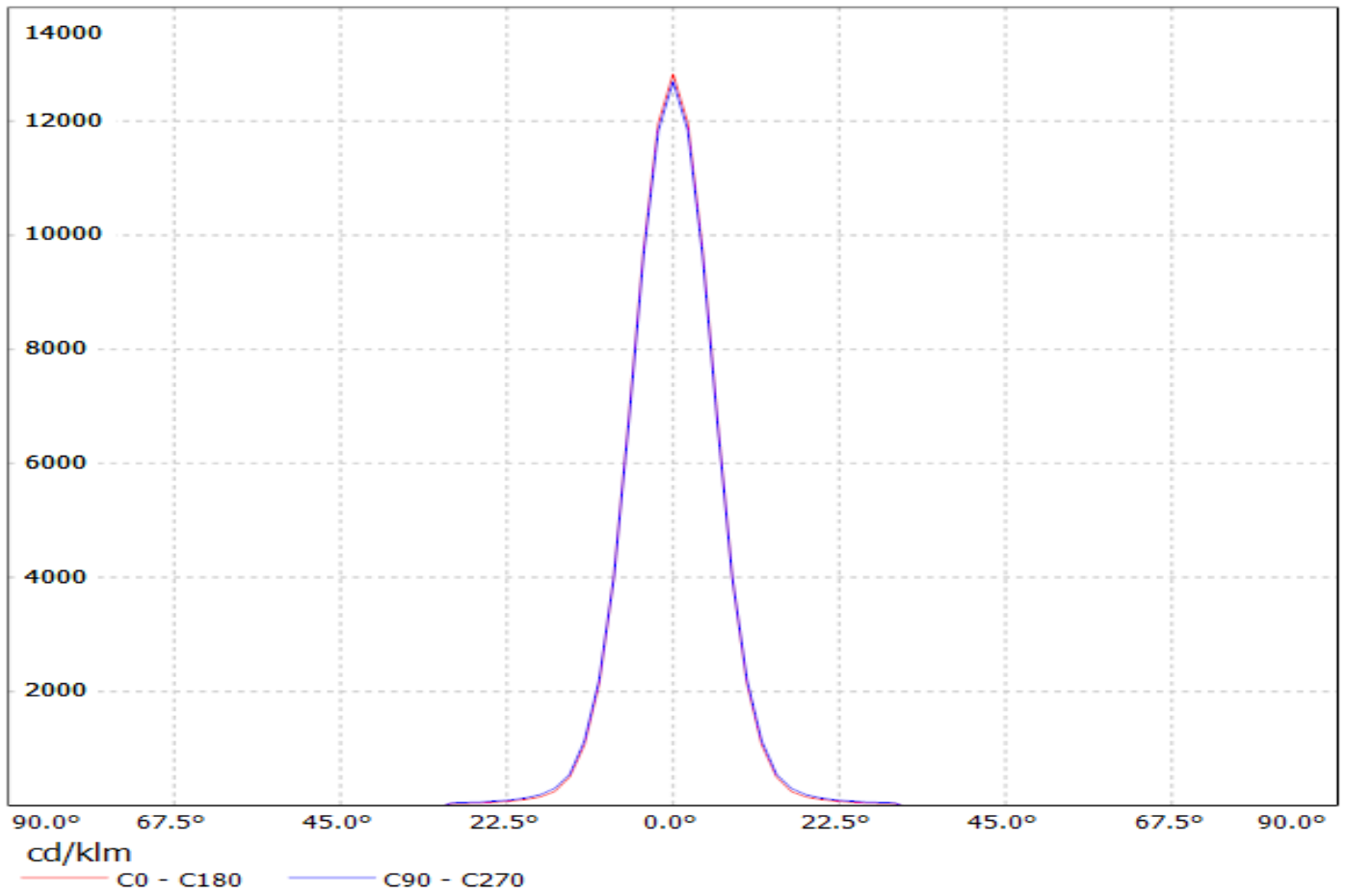
Luminaire: Ledil Oy RES-RS\_rebel RES-RS\_rebel  
Lamps: 1 x Luxeon Rebel (white)



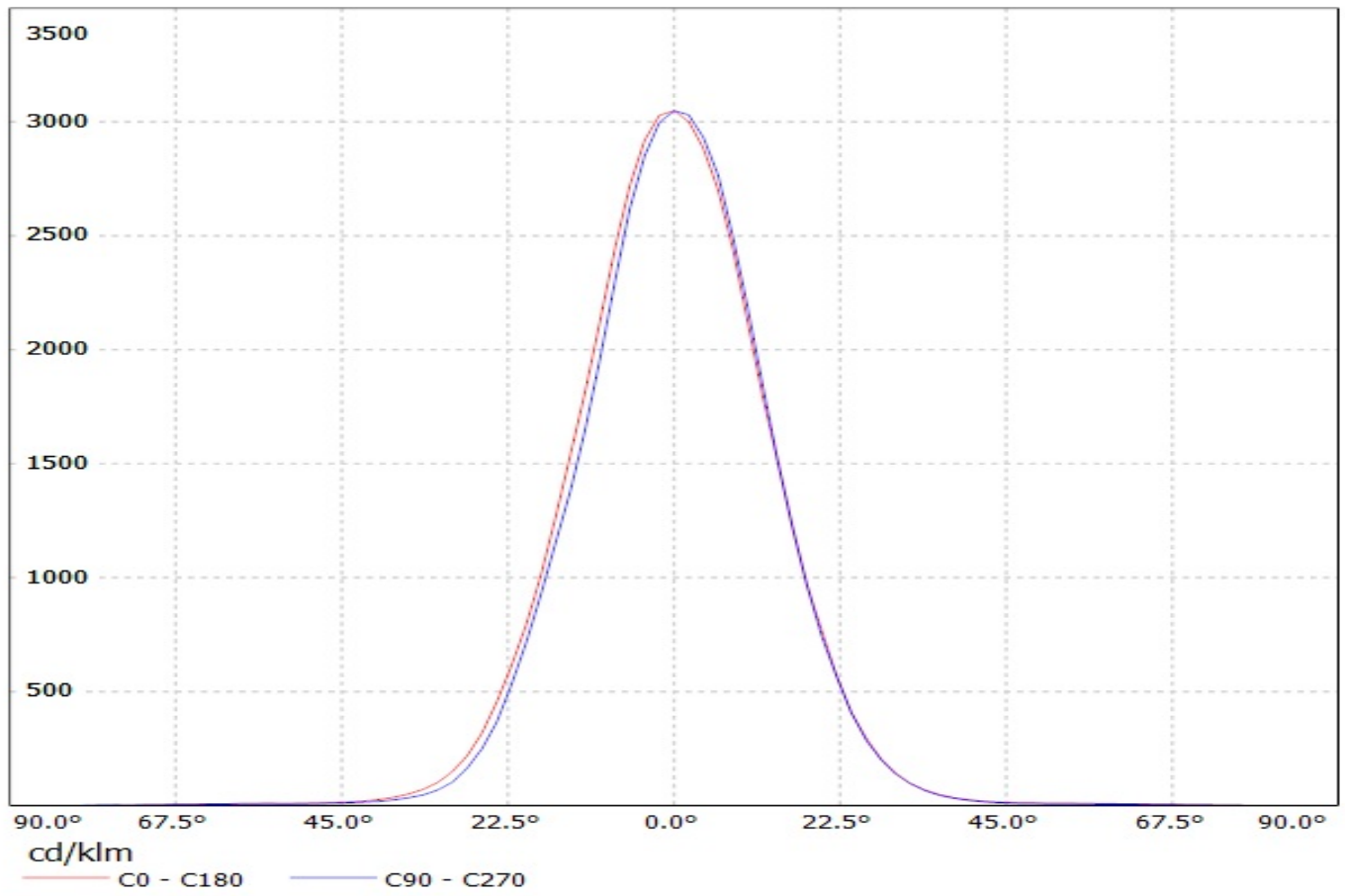
Luminaire: Ledil Oy RES-DIFF\_rebel RES-DIFF\_rebel  
Lamps: 1 x Luxeon Rebel (white)



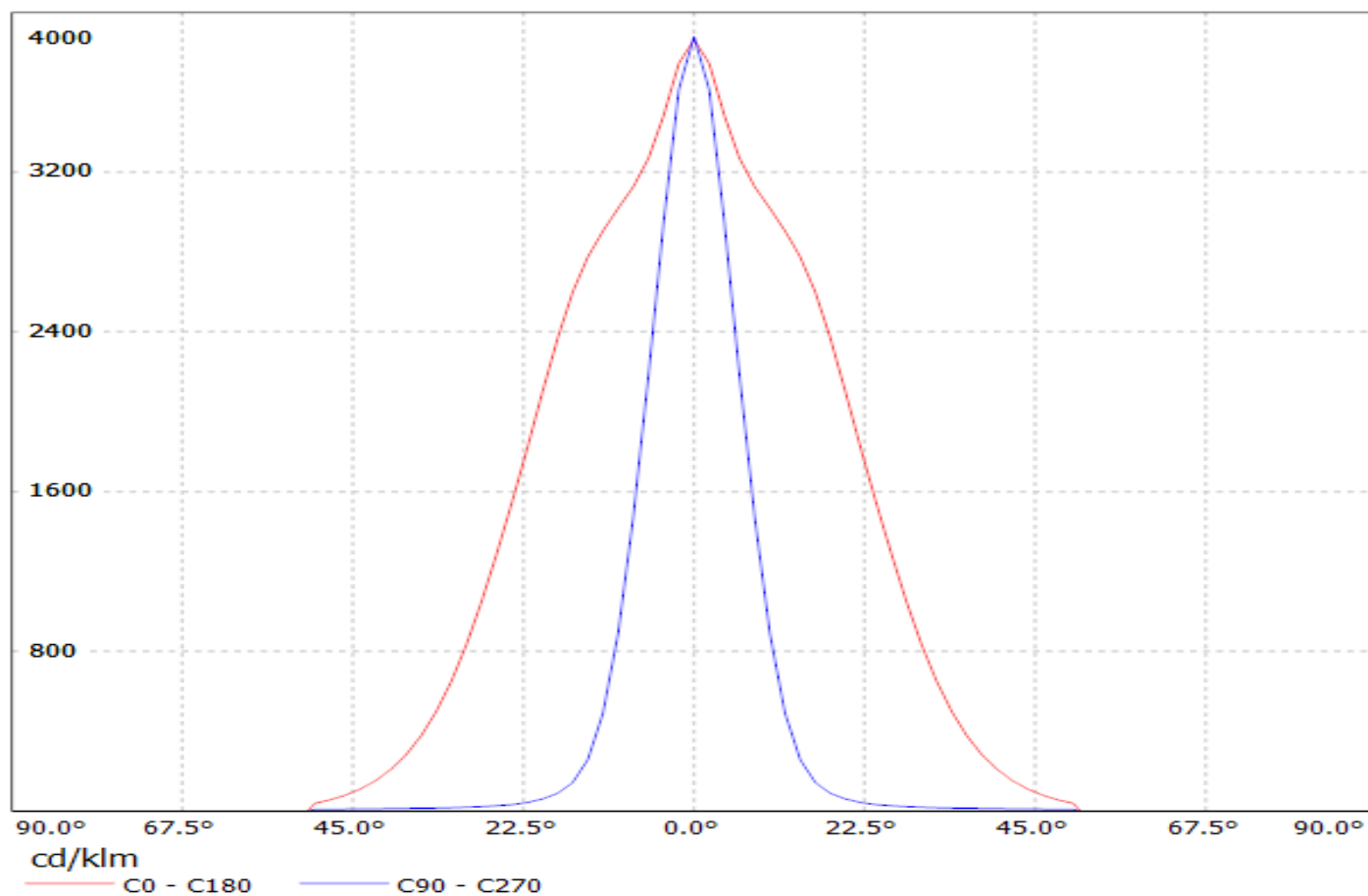
Luminaire: Ledil Oy RES-SS\_rebel RES-SS\_rebel  
Lamps: 1 x LUXEON REBEL (white)



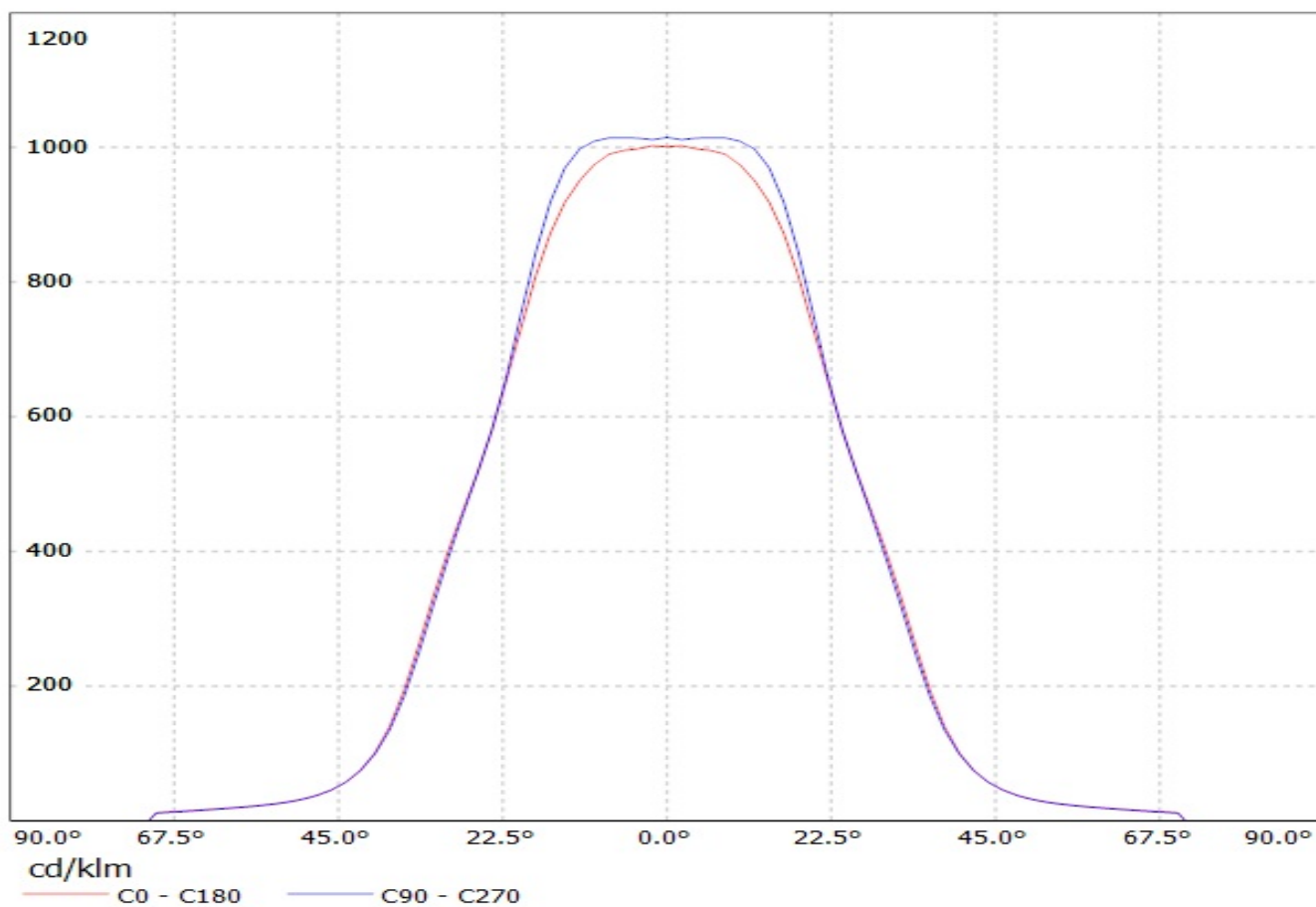
Luminaire: Ledil Oy FCX10851\_RES-M (Luxeon Rebel 81lm @ 250mA) Efficiency=84%  
Lamps: 1 x Luxeon Rebel 81lm @ 250mA



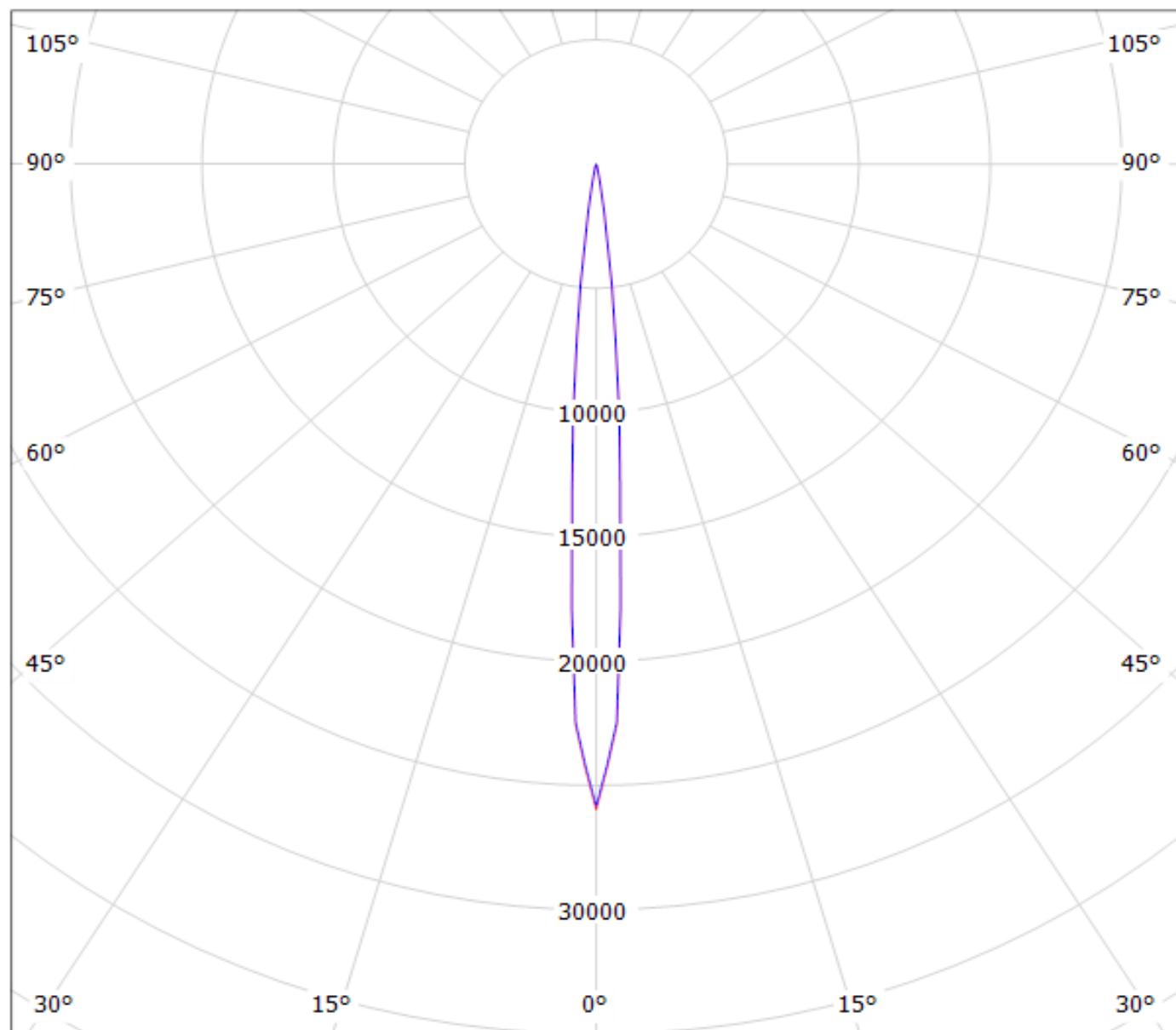
Luminaire: Ledil Oy FA10854\_RES-O FA10854\_RES-O  
Lamps: 1 x Luxeon Rebel (white)



Luminaire: Ledil Oy FA11675\_RES-WW FA11675\_RES-WW  
Lamps: 1 x Luxeon Rebel (White)



Luminaire: Ledil Oy RES-RS\_rebel RES-RS\_rebel  
Lamps: 1 x Luxeon Rebel (white)

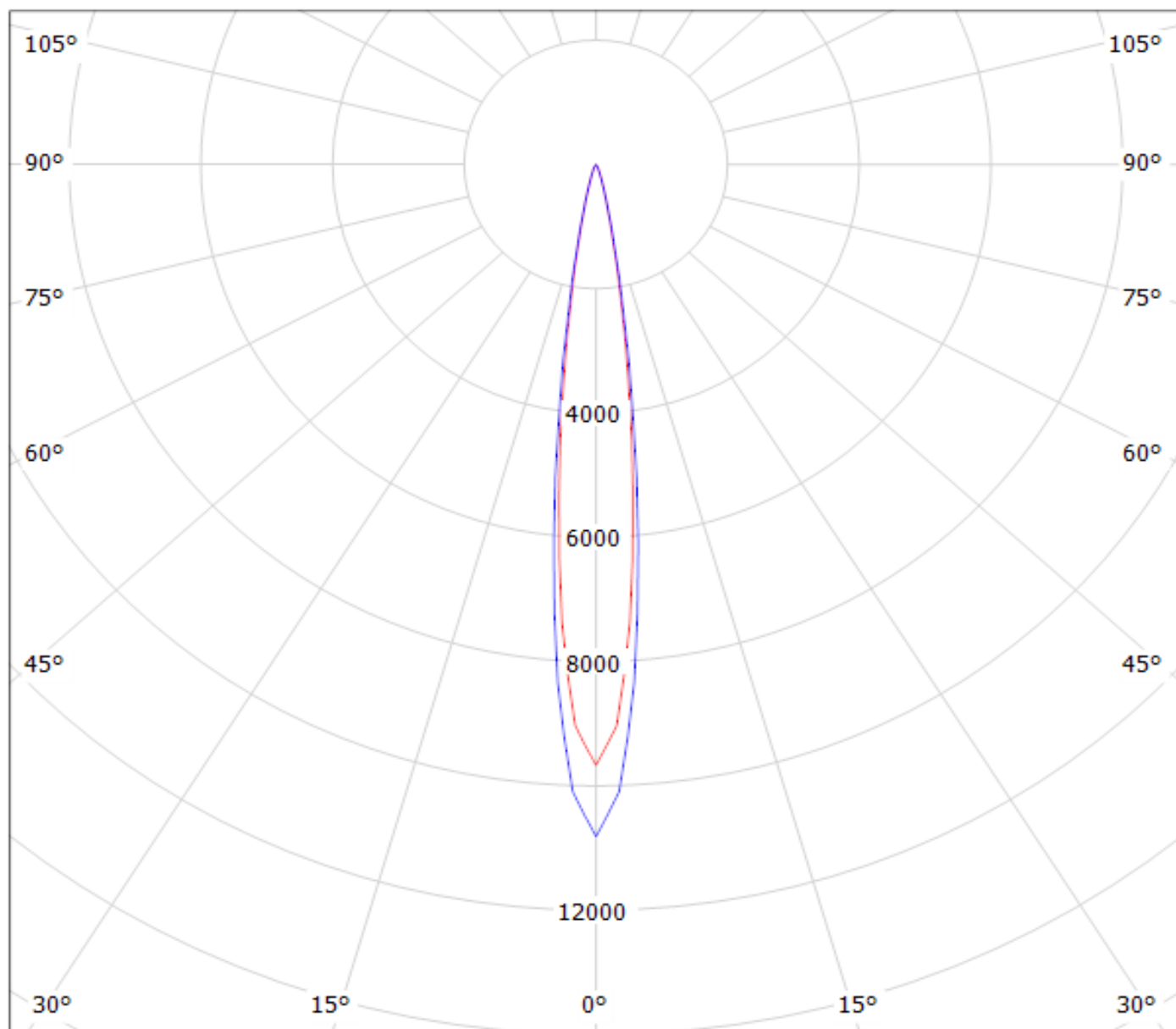


cd/klm

— C0 - C180

— C90 - C270

Luminaire: Ledil Oy RES-DIFF\_rebel RES-DIFF\_rebel  
Lamps: 1 x Luxeon Rebel (white)

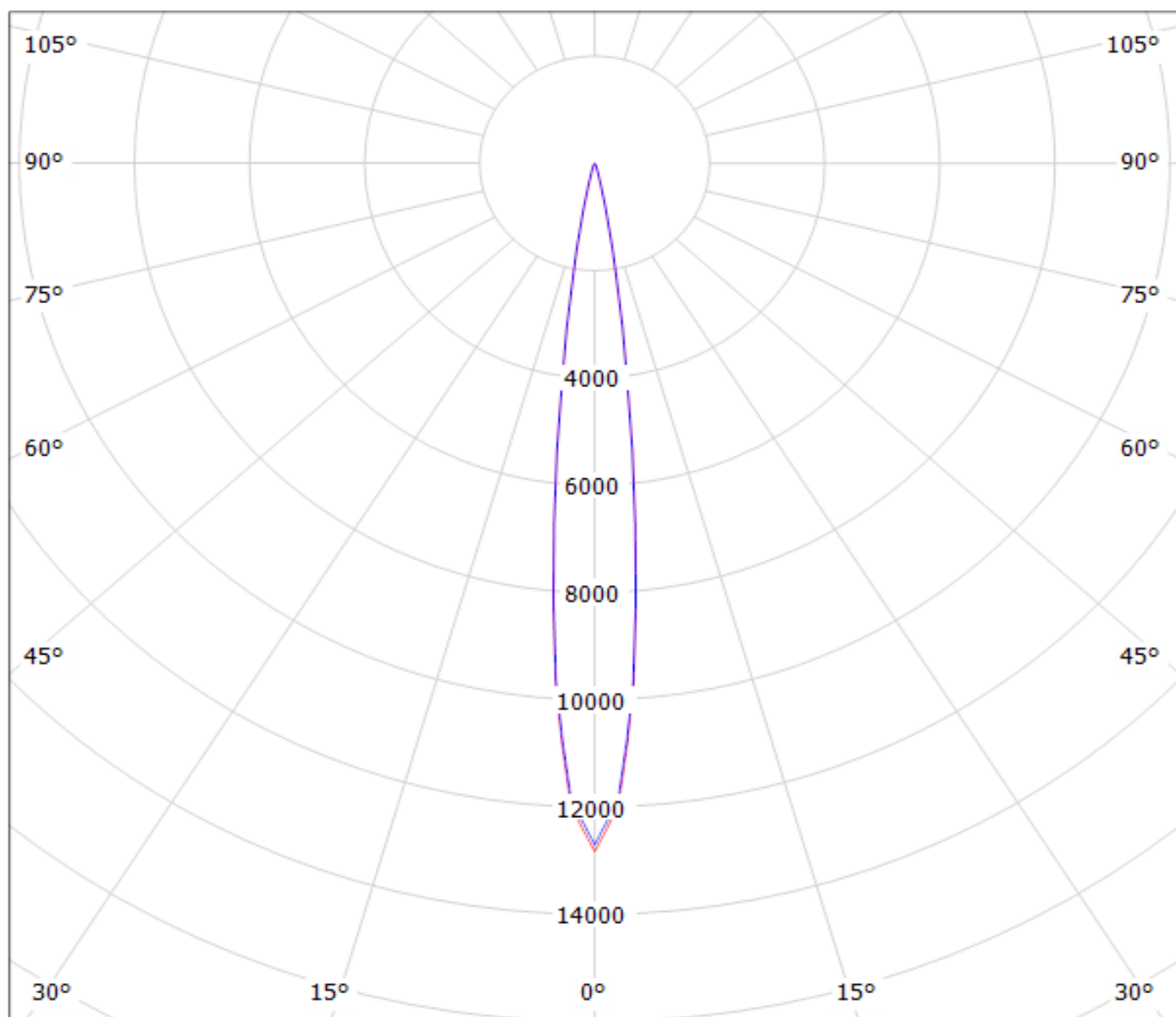


cd/klm

— C0 - C180

— C90 - C270

Luminaire: Ledil Oy RES-SS\_rebel RES-SS\_rebel  
Lamps: 1 x LUXEON REBEL (white)

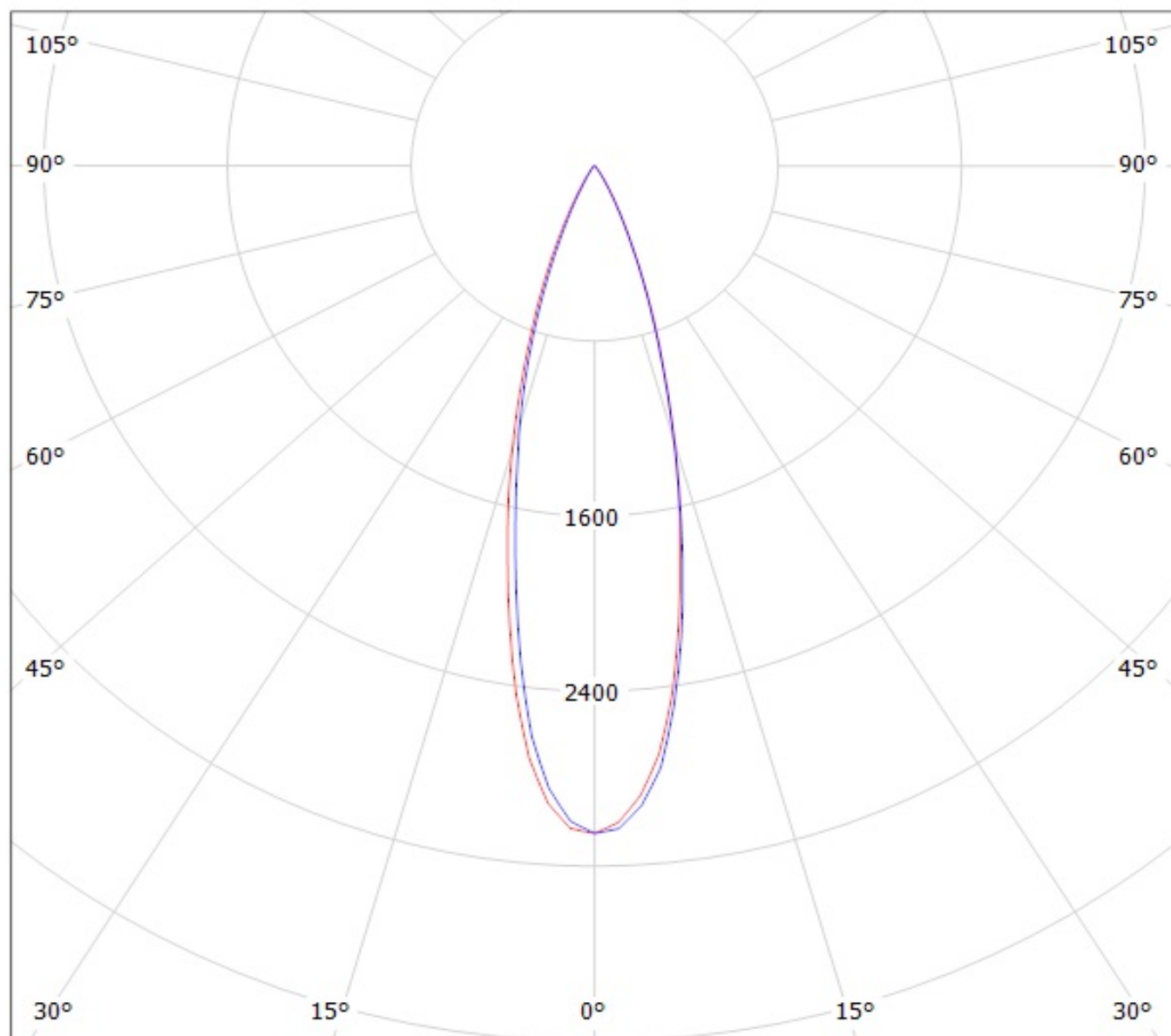


cd/klm

— C0 - C180

— C90 - C270

Luminaire: Ledil Oy FCX10851\_RES-M (Luxeon Rebel 81lm @ 250mA) Efficiency=84%  
Lamps: 1 x Luxeon Rebel 81lm @ 250mA

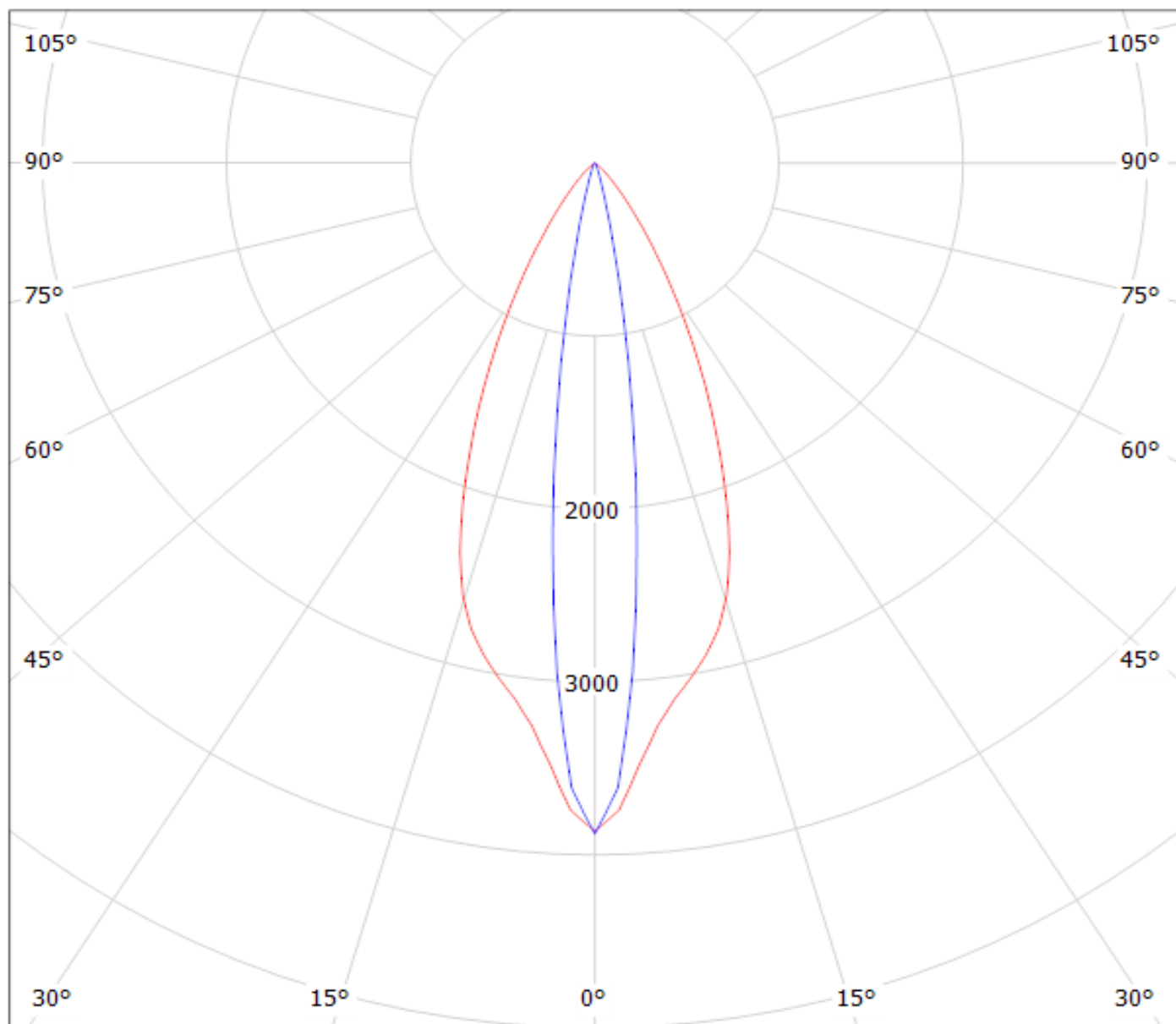


cd/klm

— C0 - C180

— C90 - C270

Luminaire: Ledil Oy FA10854\_RES-O FA10854\_RES-O  
Lamps: 1 x Luxeon Rebel (white)

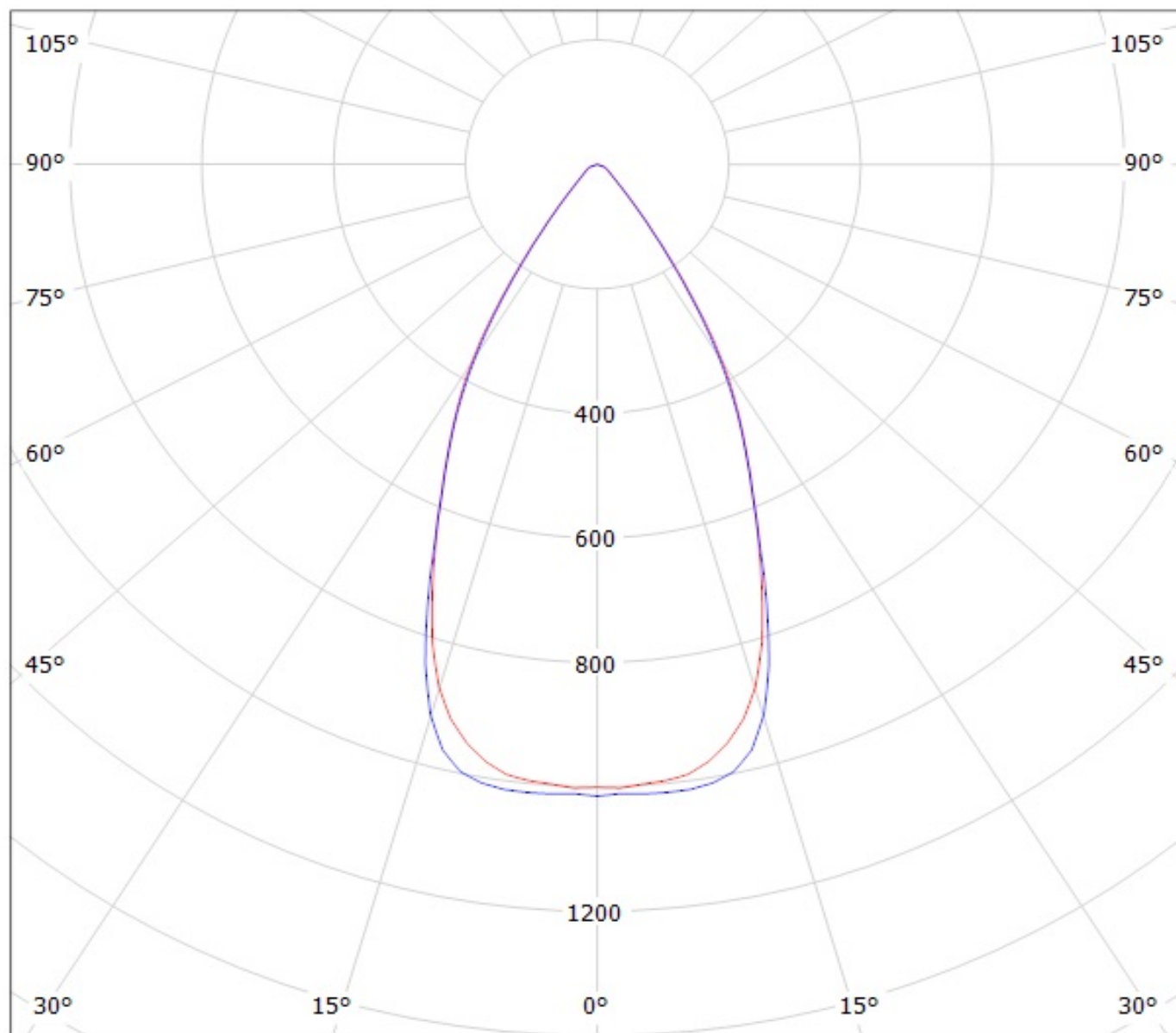


cd/klm

— C0 - C180

— C90 - C270

Luminaire: Ledil Oy FA11675\_RES-WW FA11675\_RES-WW  
Lamps: 1 x Luxeon Rebel (White)



cd/klm

— C0 - C180

— C90 - C270