**Product 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 | -                |             |           |
| Fastening       | ["tape"]         |             |           |
| Status          | Production ready |             |           |

**Product 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 | -                |             |            |
| Fastening       | ["tape"]         |             |            |
| Status          | Production ready |             |            |

**Product 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 | -                |             |            |
| Fastening       | ["tape"]         |             |            |
| Status          | Production ready |             |            |

**Product 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 | -                |             |            |
| Fastening       | ["tape"]         |             |            |
| Status          | Production ready |             |            |

**Product 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 | -                |             |            |
| Fastening       | ["tape"]         |             |            |
| Status          | Production ready |             |            |

**Product 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 | -                |             |               |
| Fastening       | ["tape"]         |             |               |
| Status          | Production ready |             |               |

**Product number FCX11675\_RES-WW**

|                 |                  |             |            |
|-----------------|------------------|-------------|------------|
| Family          | Rose             | FWHM        | 54 degrees |
| Type            | Pack             | Efficiency  | 79 %       |
| LED             | LUXEON Rebel     | cd/lm       | -          |
| Color           | White            | Gerber File | Available  |
| Diameter        | 21.6 + 21.6 mm   |             |            |
| Height          | 12.9 mm          |             |            |
| Style           | Square           |             |            |
| Optic Material  | PC               |             |            |
| Holder Material | -                |             |            |
| Fastening       | ["tape"]         |             |            |
| Status          | Production ready |             |            |

**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 3/9/2014

#### 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)

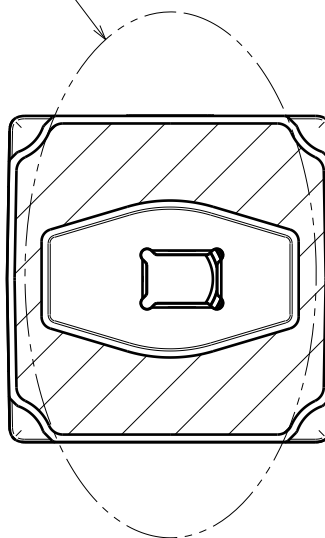
D

C

B

A

Oval beam direction



Lens

Holder

Tape 0.4mm

12.9

21.6

21.6

Materials:  
 Lens PC  
 Holder PC  
 Tape PU foam with PSA

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 or communicated without  
 our written agreement.



Ledil Oy  
 Tehdaskatu 13  
 FIN-24100 SALO  
 Finland

DRAWING TITLE

Datasheet RES series assy

DRAWN BY

DATE

pv

25.01.2010

CHECKED BY

DATE

KL

29.05.2007

SIZE

A4

DRAWING NUMBER

REV

0.1

DESIGNED BY

DATE

HH

29.05.2007

SCALE

2:1

WEIGHT (g)

SHEET

1/1

D

A

4

4

3

3

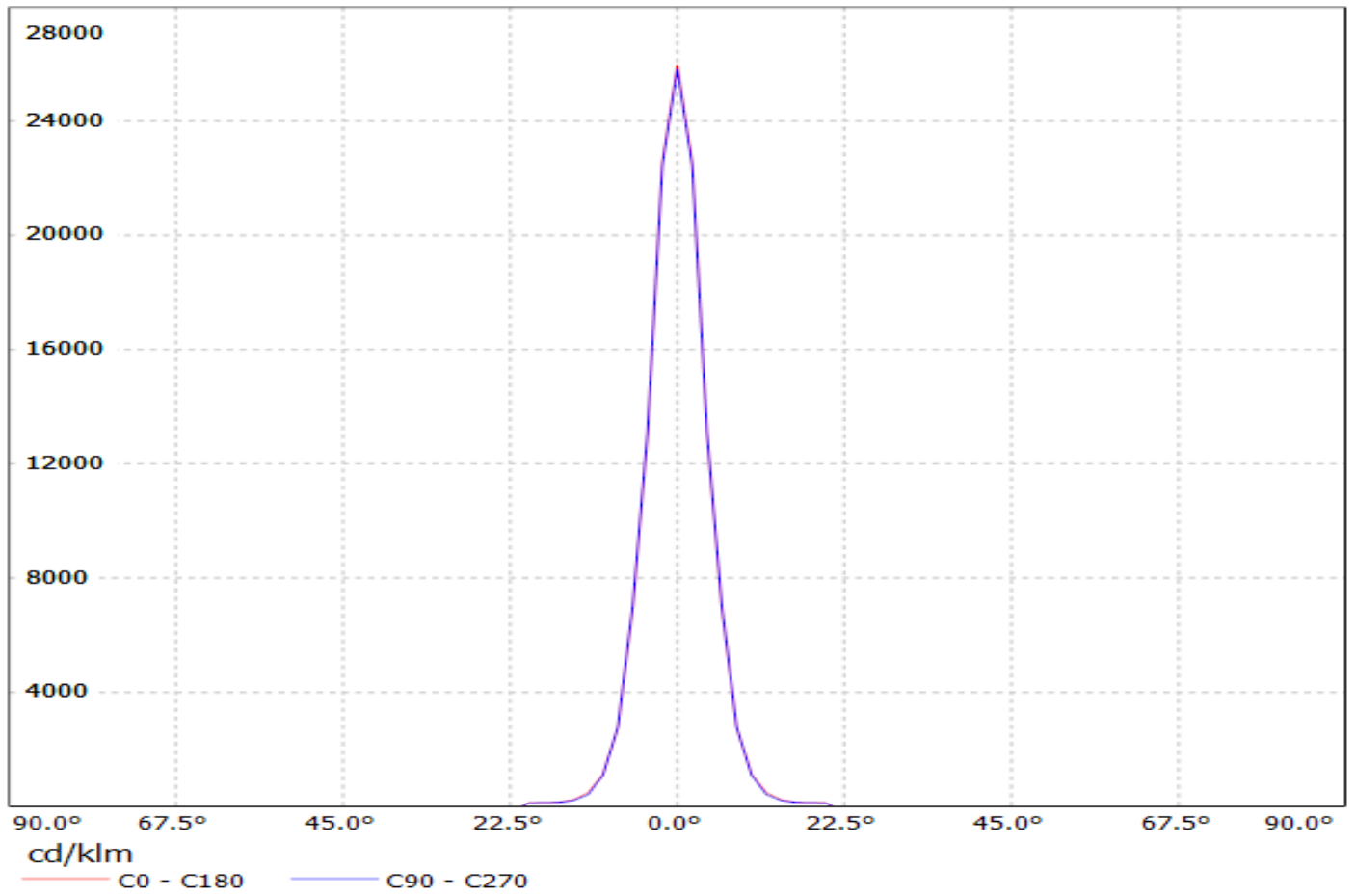
2

2

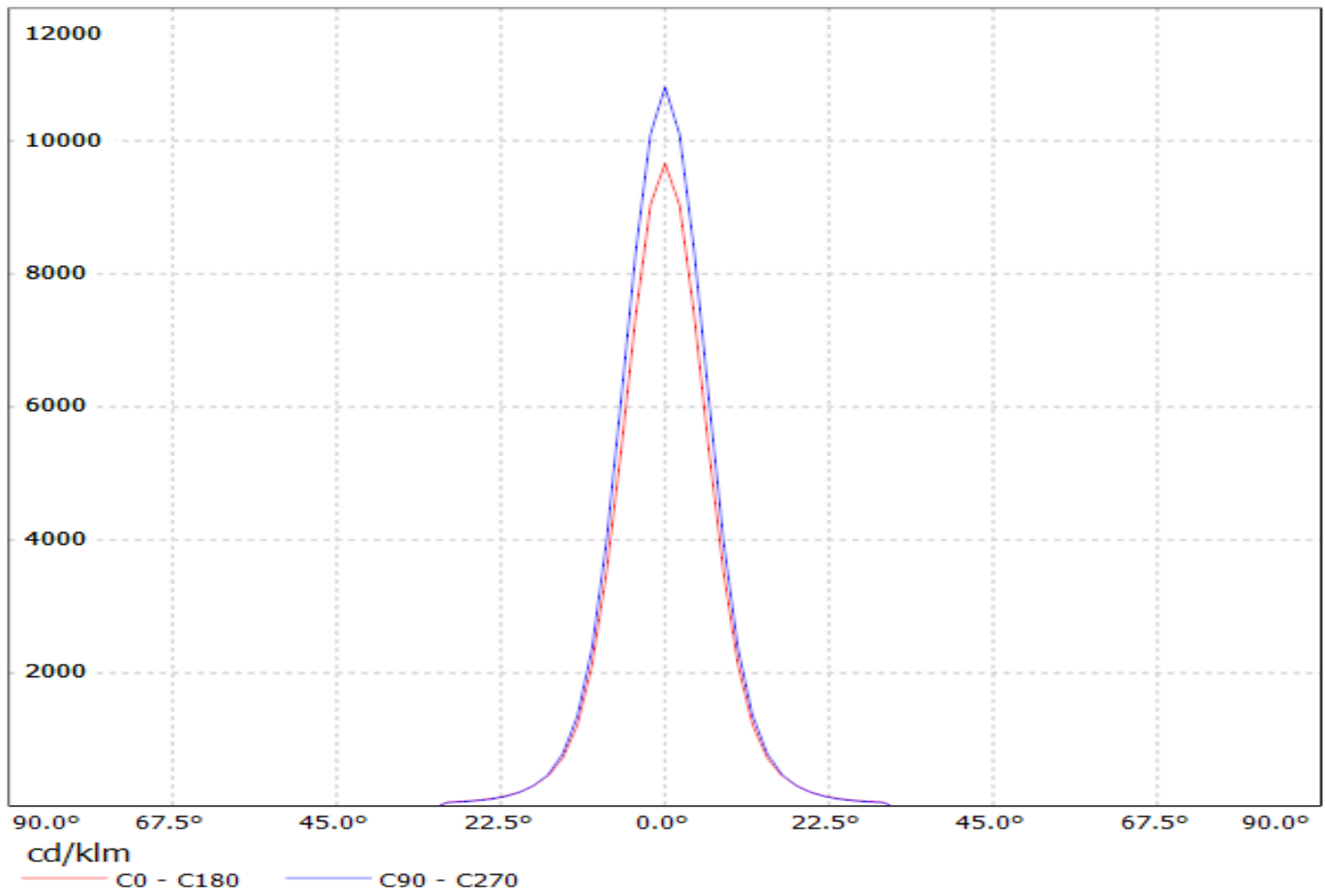
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1

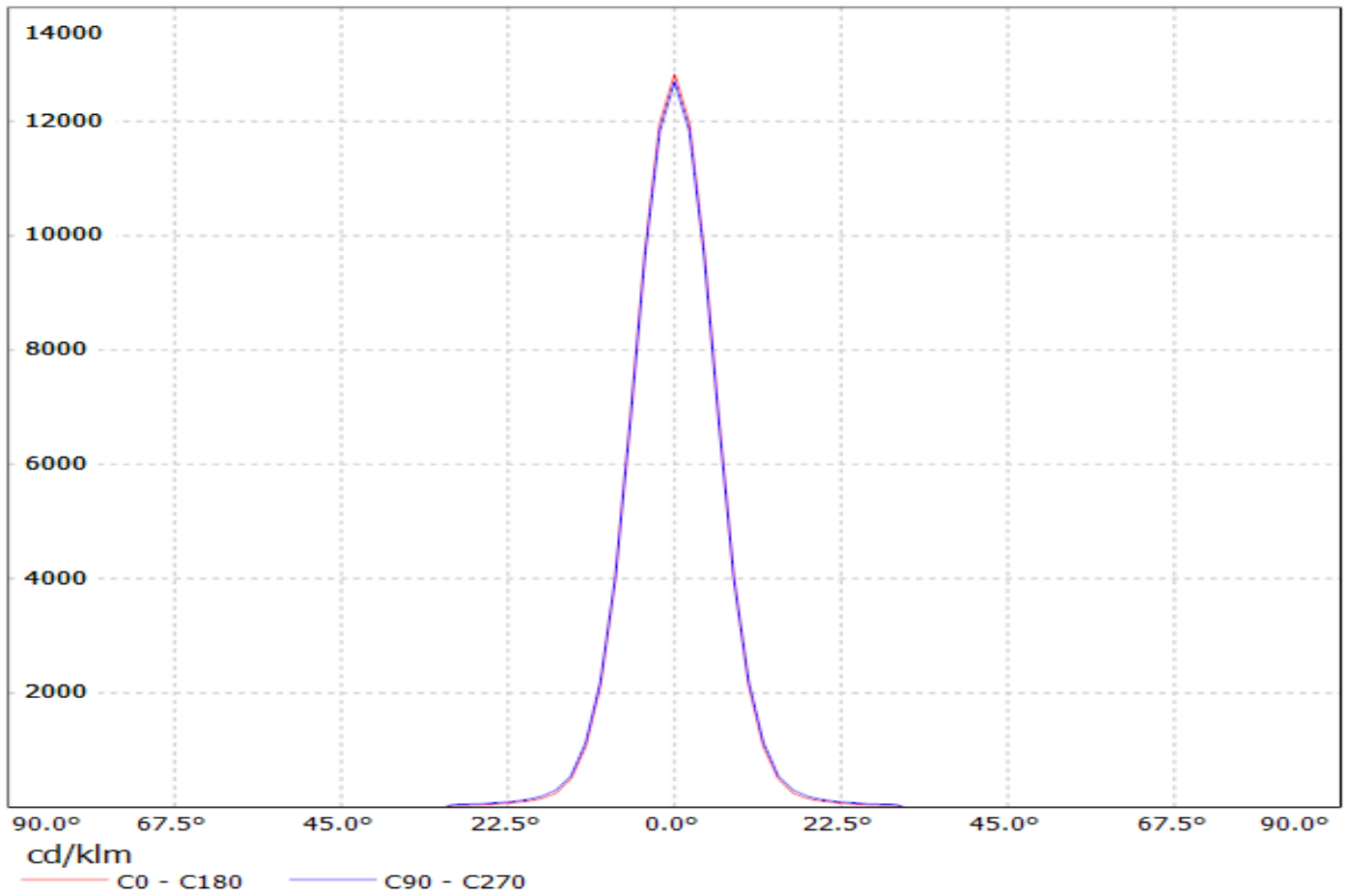
Luminaire: Ledil Oy RES-RS\_rebel RES-RS\_rebel  
Lamps: 1 x Luxeon Rebel (white)



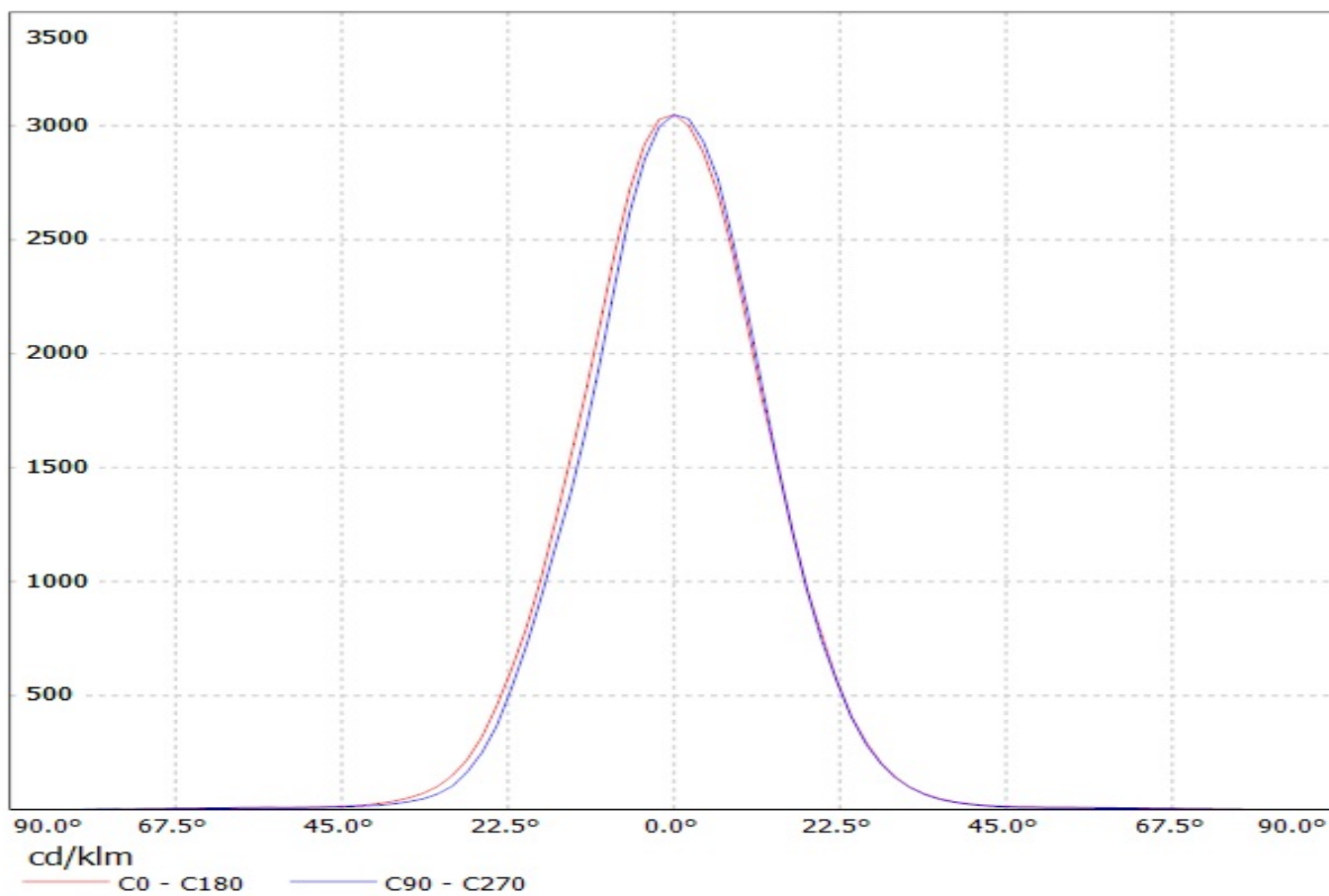
Luminaire: Ledil Oy RES-DIFF\_rebel RES-DIFF\_rebel  
Lamps: 1 x Luxeon Rebel (white)



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

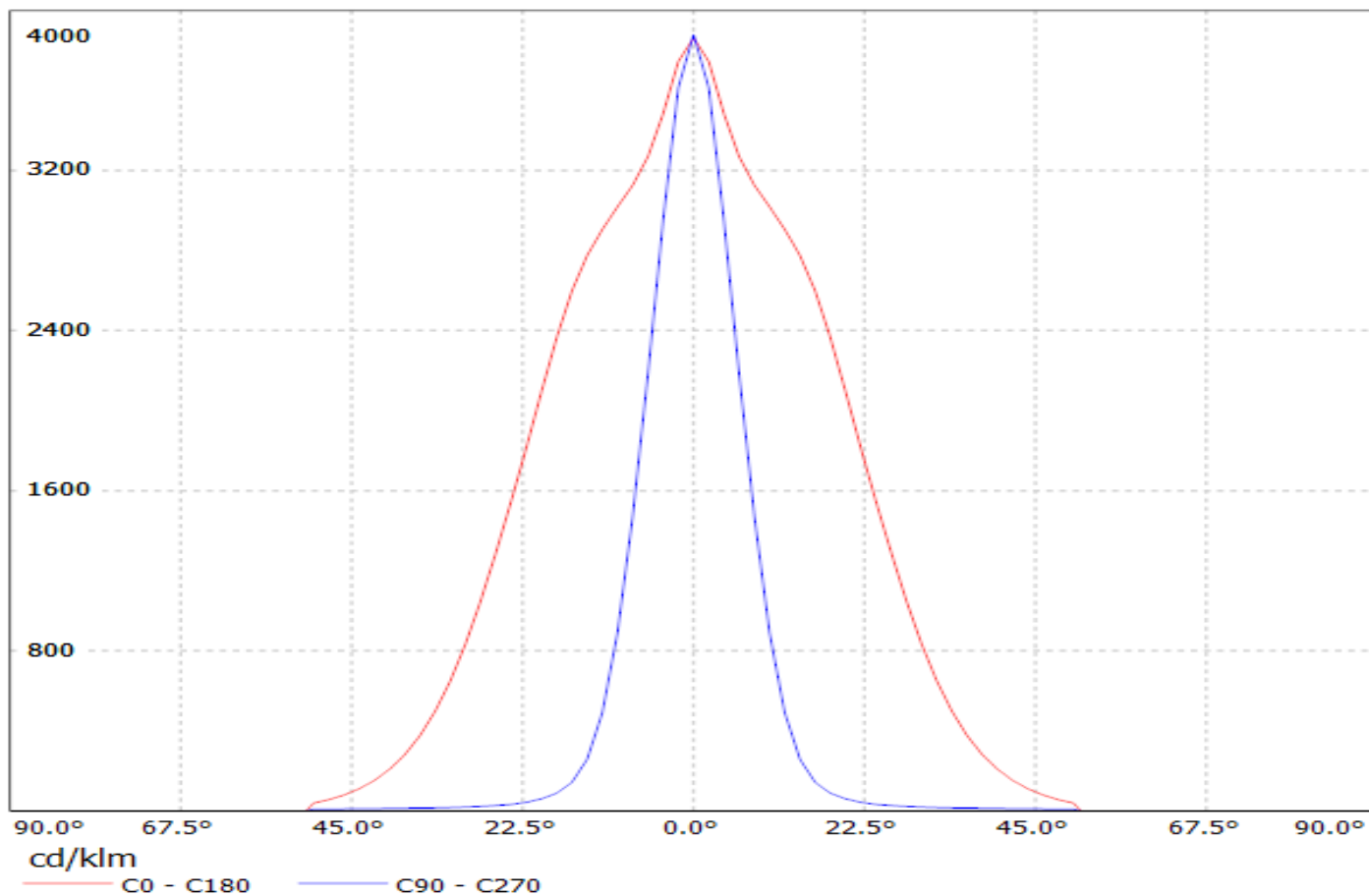


Luminaire: Ledil Oy FCX10851\_RES-M (Luxeon Rebel 81lm @ 250mA) Efficiency=84%  
Lamps: 1 x Luxeon Rebel 81lm @ 250mA

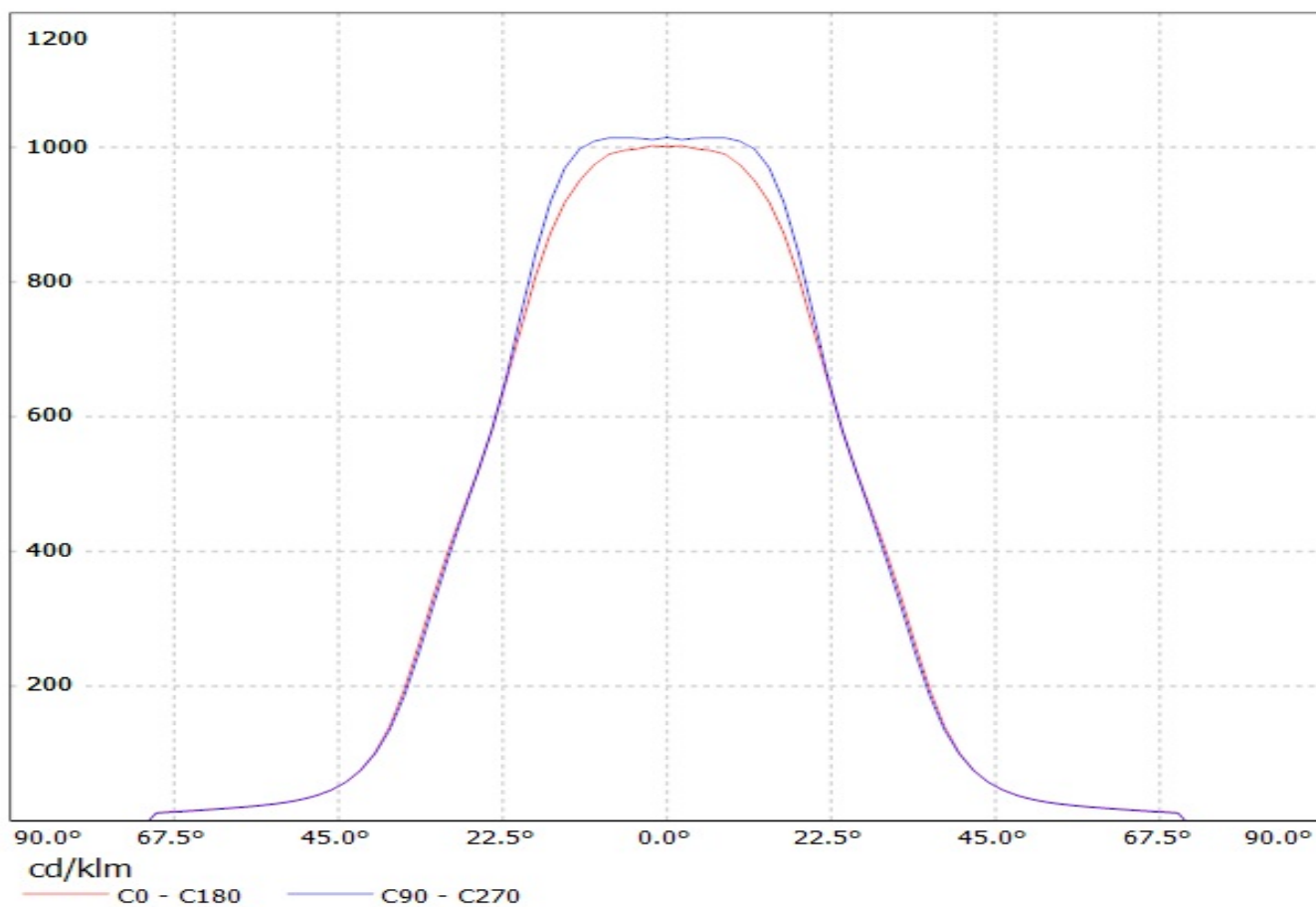




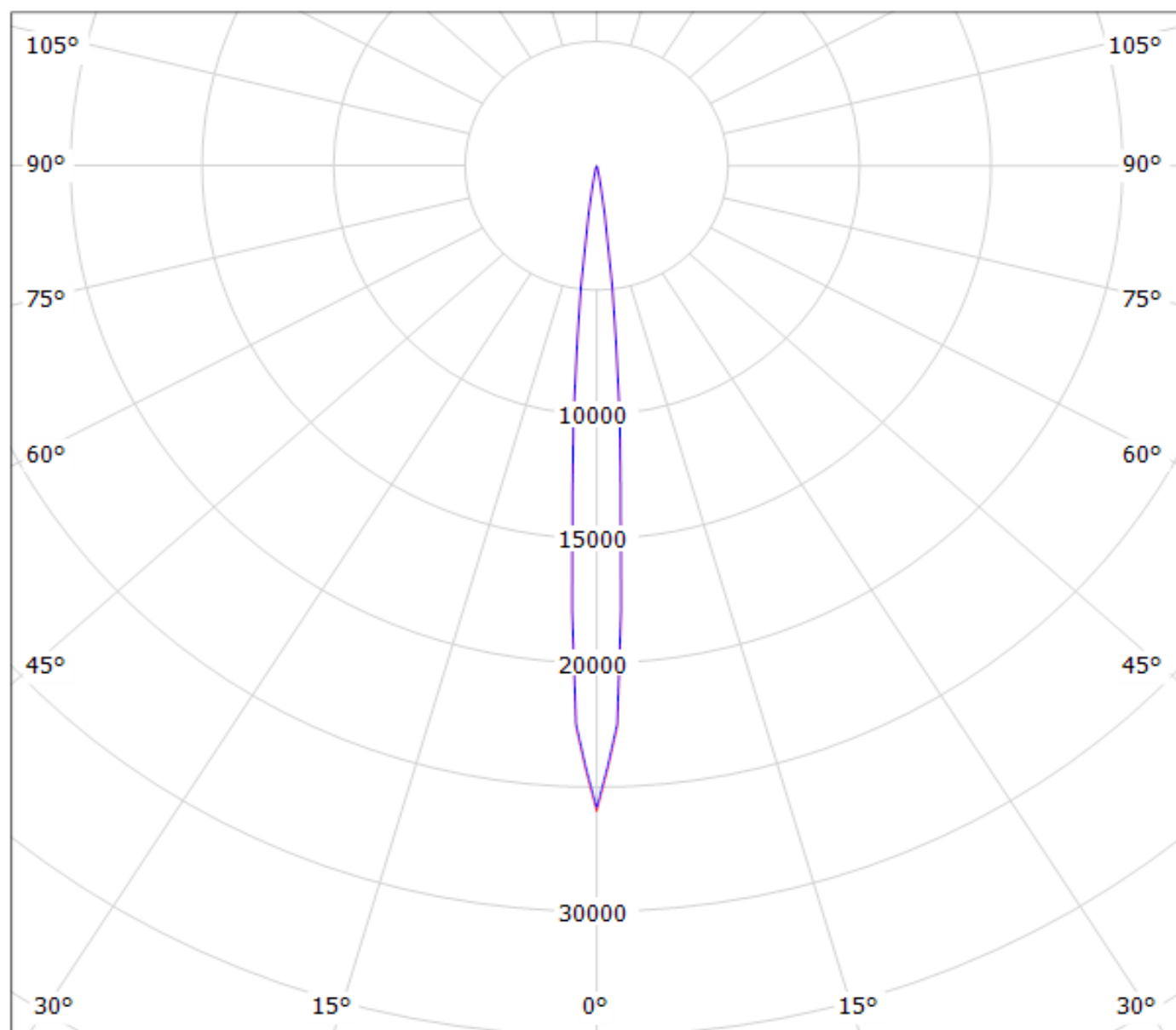
Luminaire: Ledil Oy FA10854\_RES-O FA10854\_RES-O  
Lamps: 1 x Luxeon Rebel (white)



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)

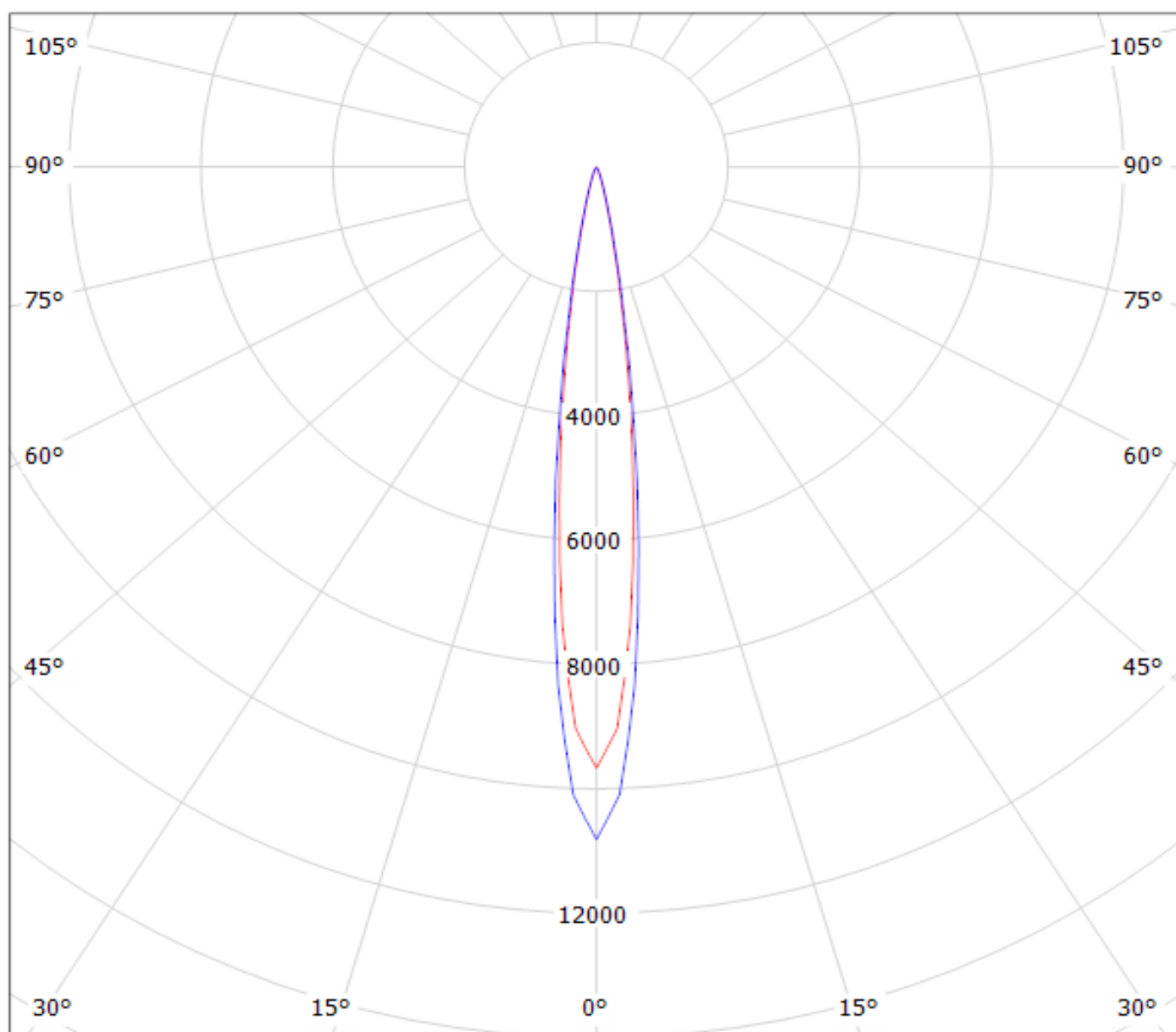


cd/klm

— C0 - C180

— C90 - C270

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

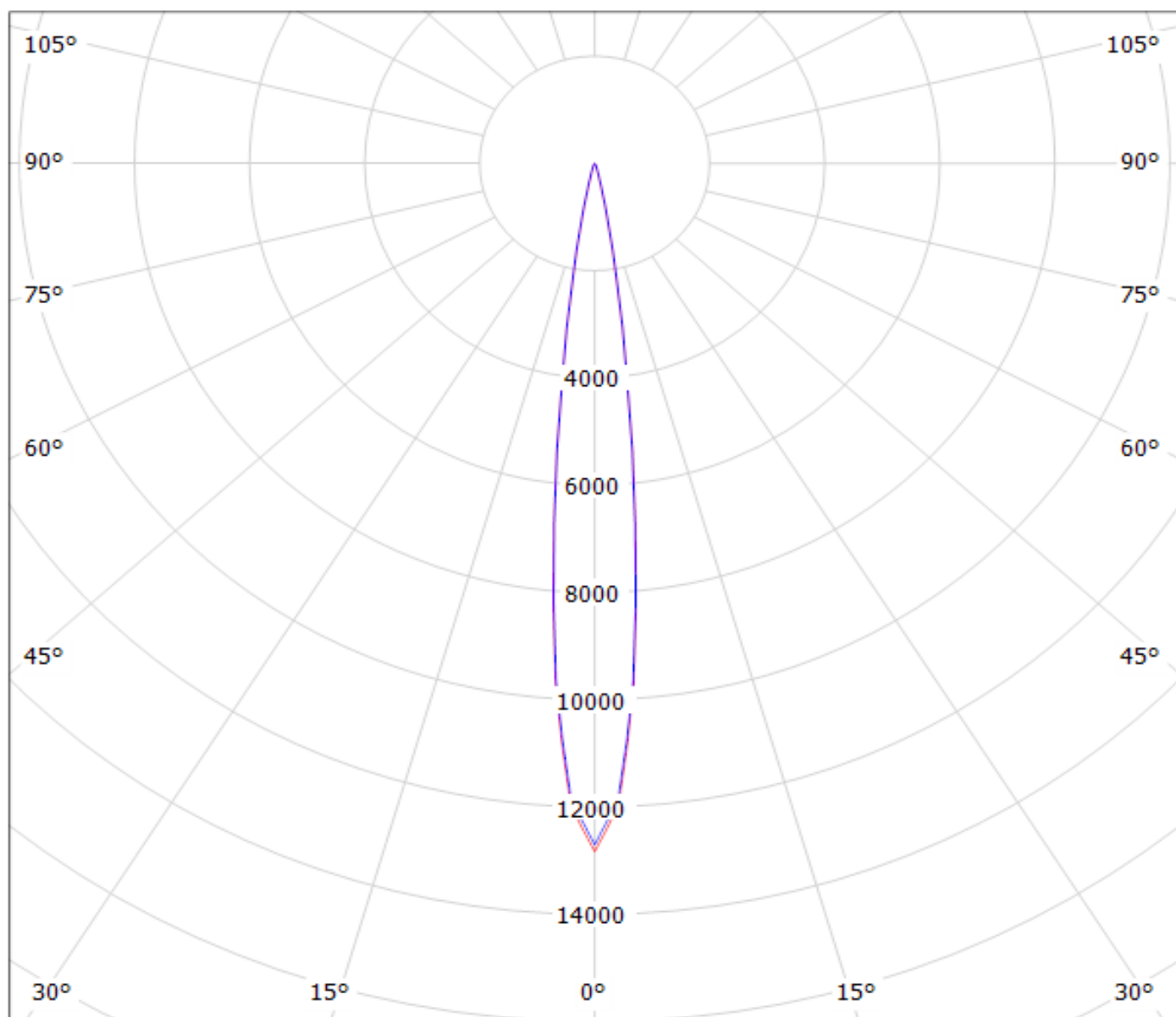


cd/klm

— C0 - C180

— C90 - C270

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

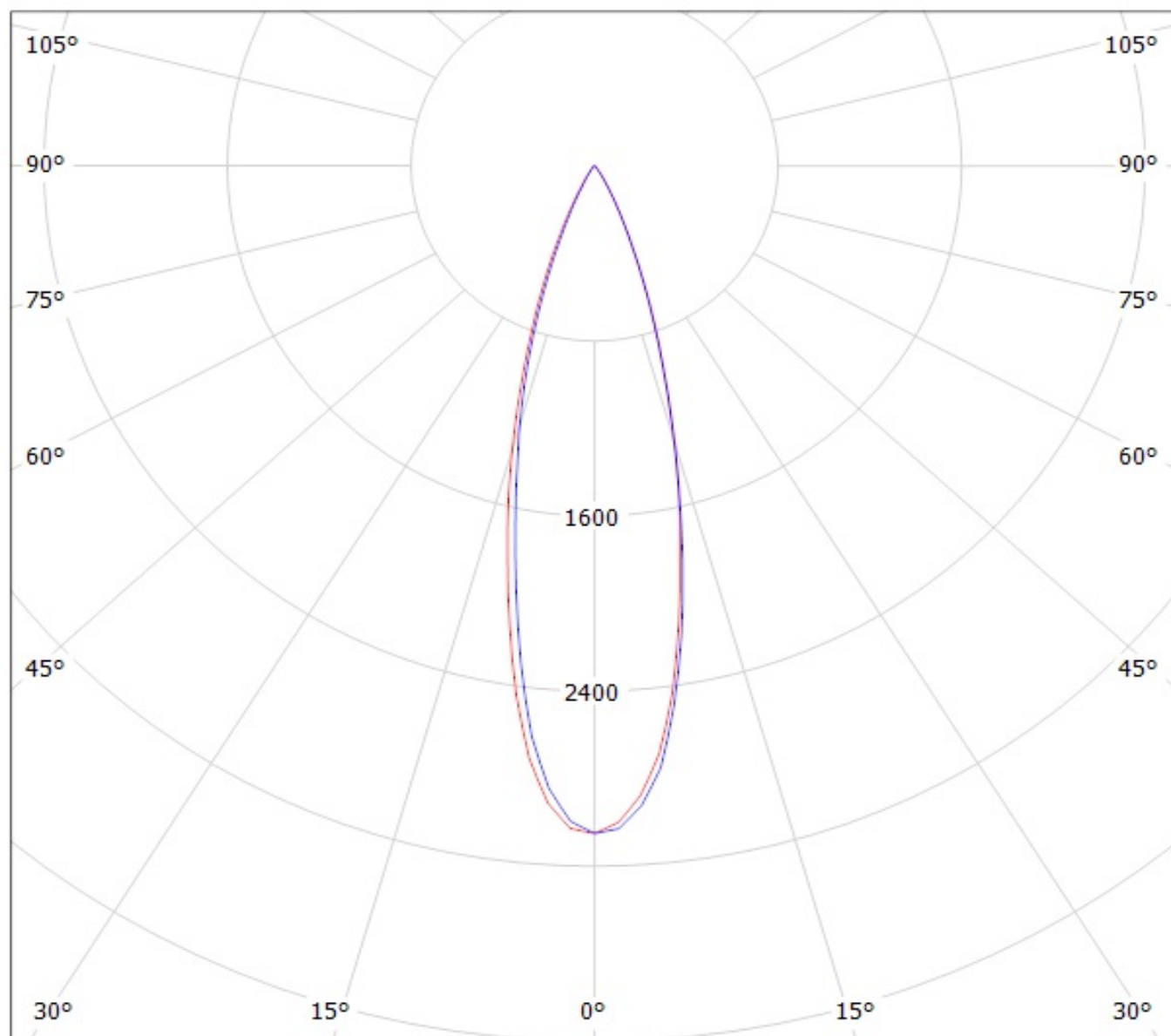


cd/klm

— C0 - C180

— C90 - C270

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

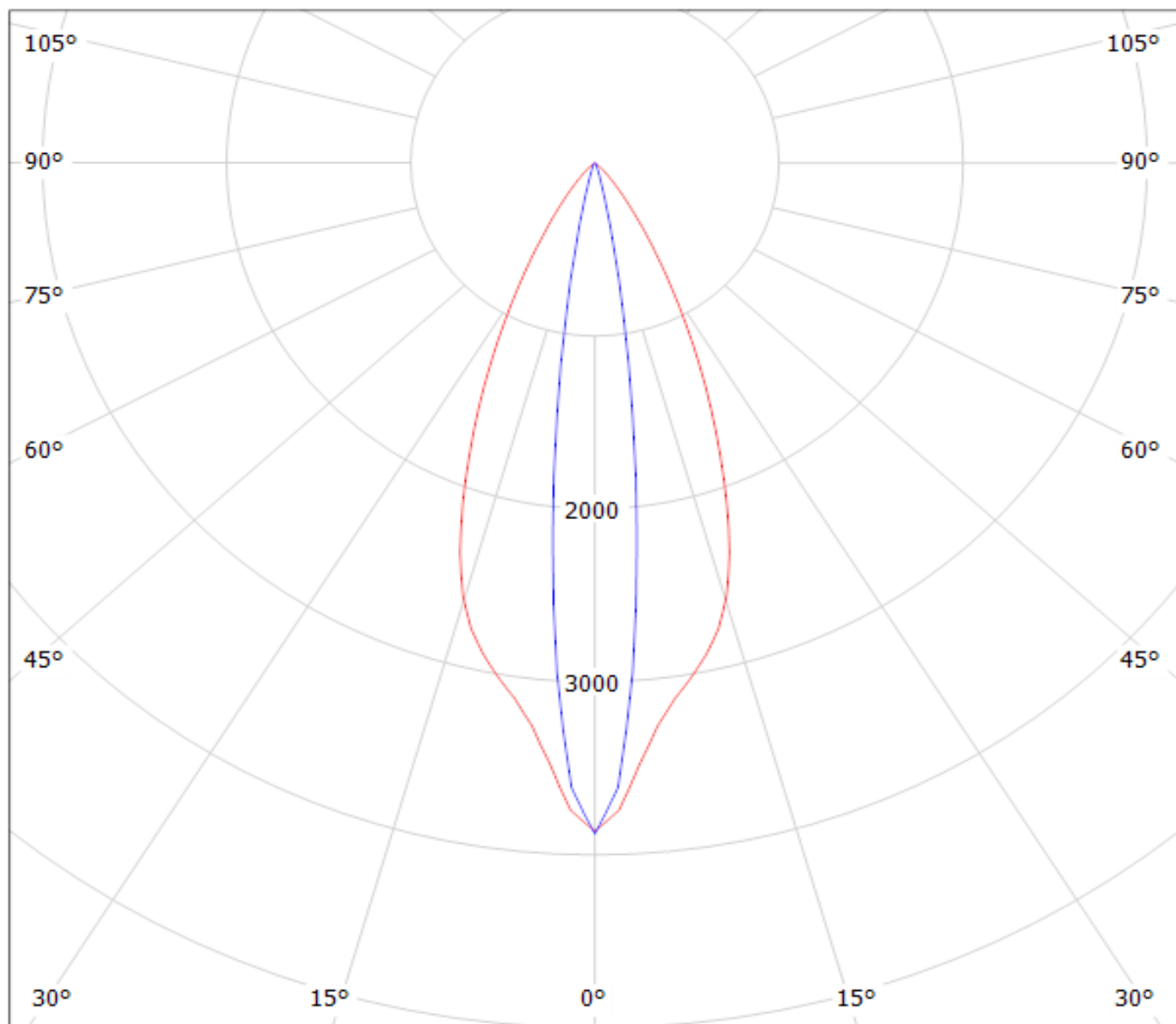


cd/klm

— C0 - C180

— C90 - C270

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

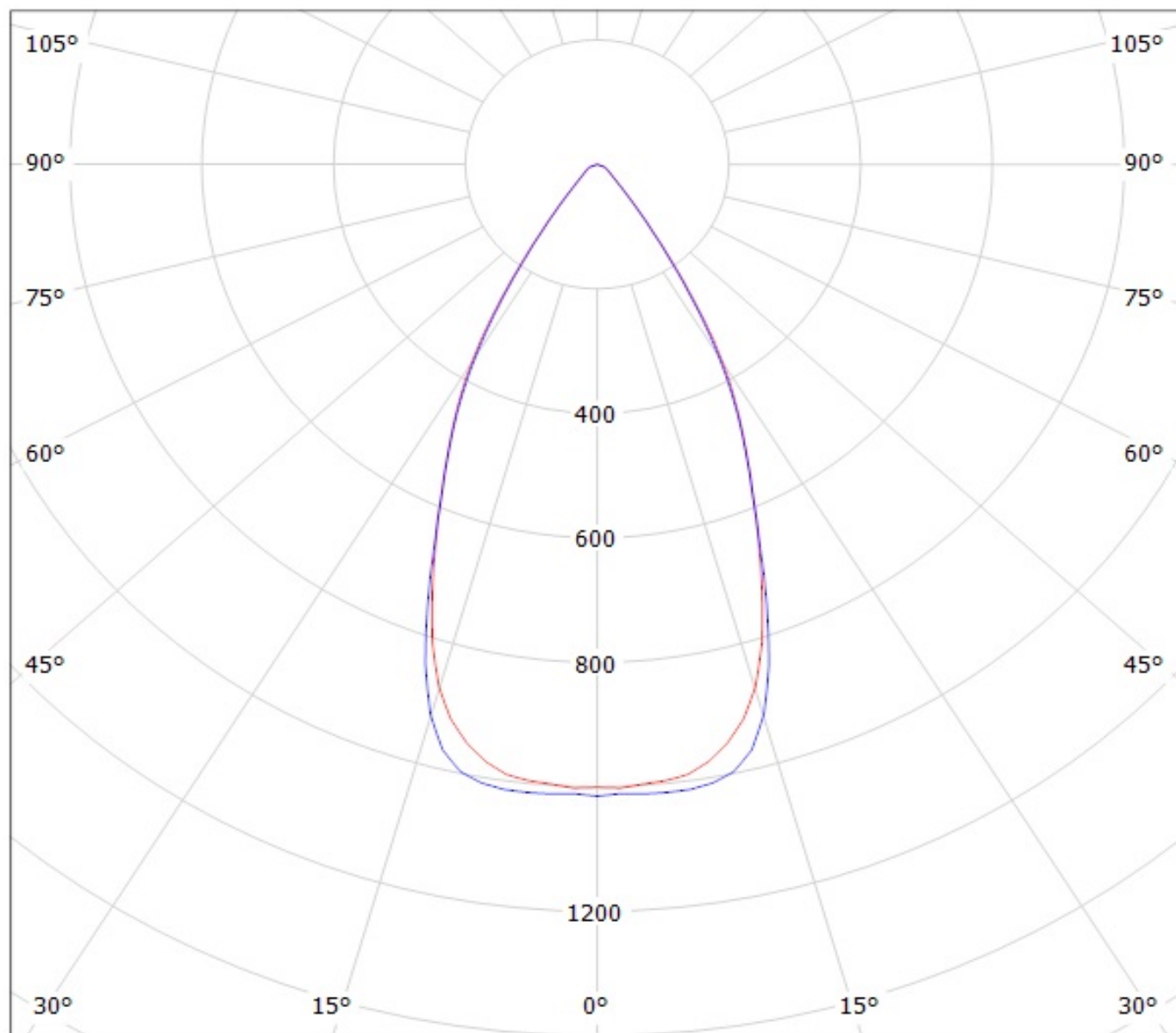


cd/klm

— 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