

**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	PC		
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	PC		
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	PC		
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	PC		
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	PC		
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	PC		
Fastening	Tape		
Status	Production ready		

**Product 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	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.

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

- Optic holder molded by high quality PC material (120 degees 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.

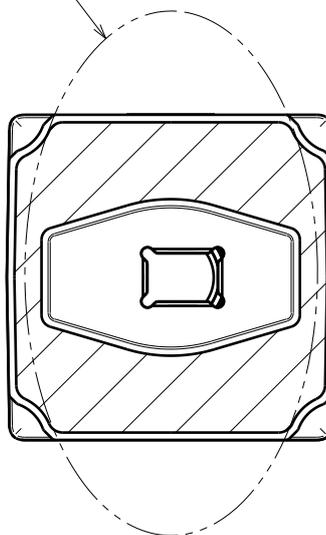
D

C

B

A

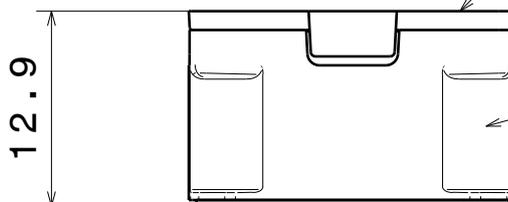
Oval beam direction



Lens

Holder

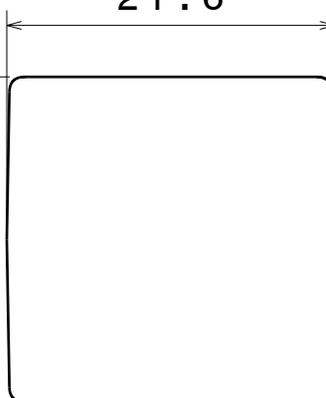
Tape 0.4mm



12.9

21.6

21.6



Materials:
 Lens PC
 Holder PC
 Tape PU foam with PSA

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 or communicated without
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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

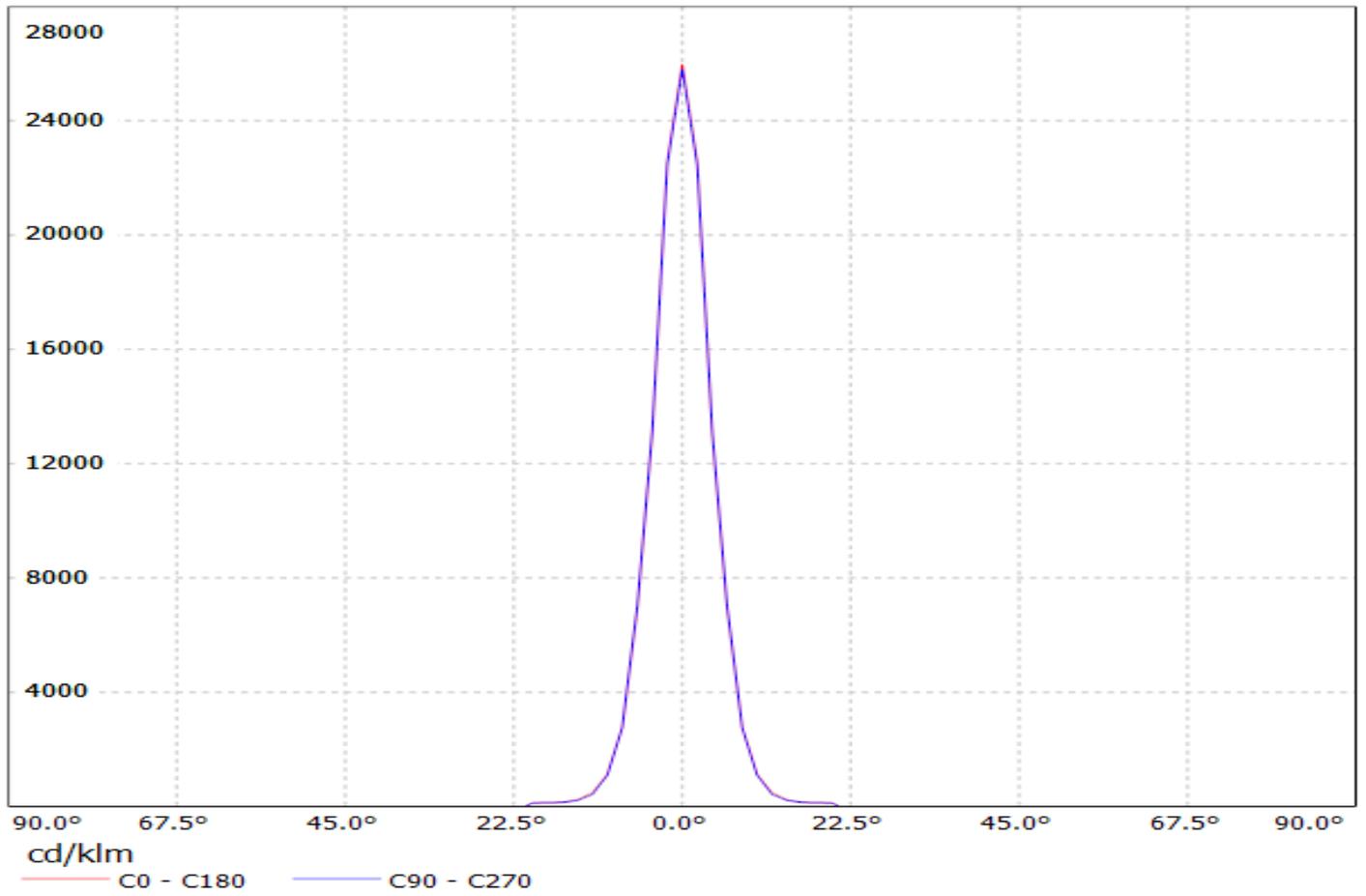
2

2

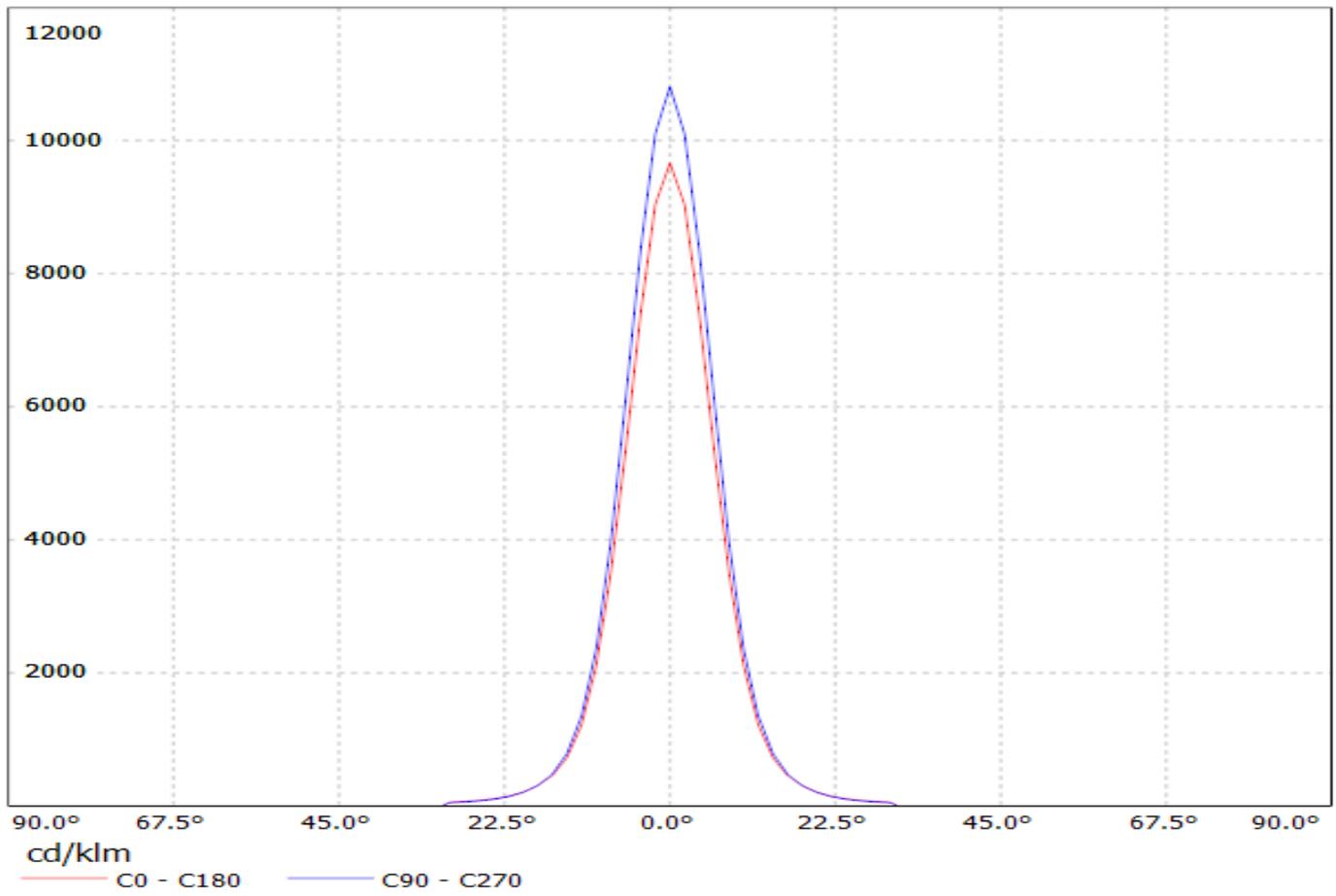
1

1

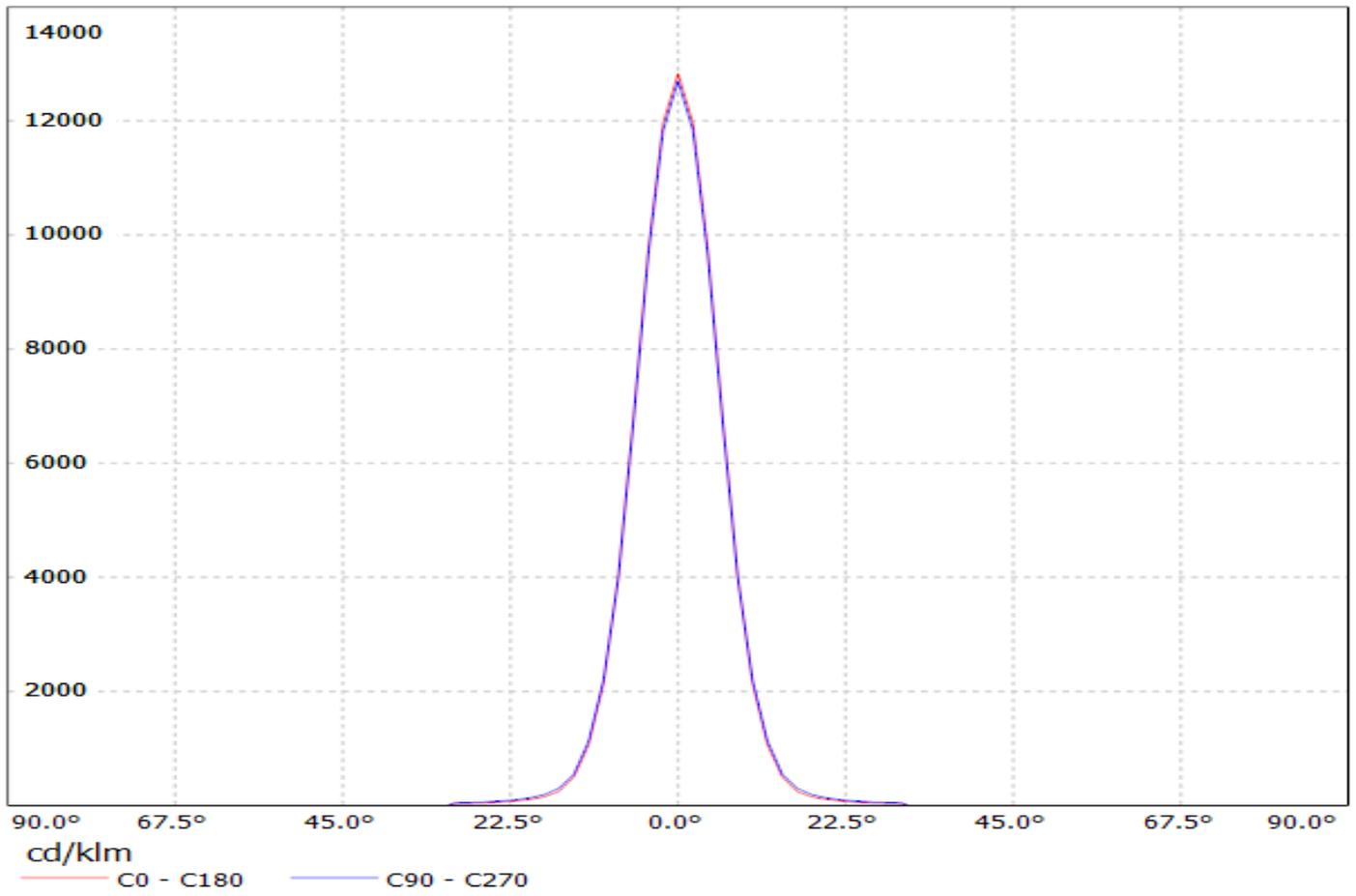
Luminaire: Ledil Oy RES-RS_rebel RES-RS_rebel
Lamps: 1 x Luxeon Rebel (white)



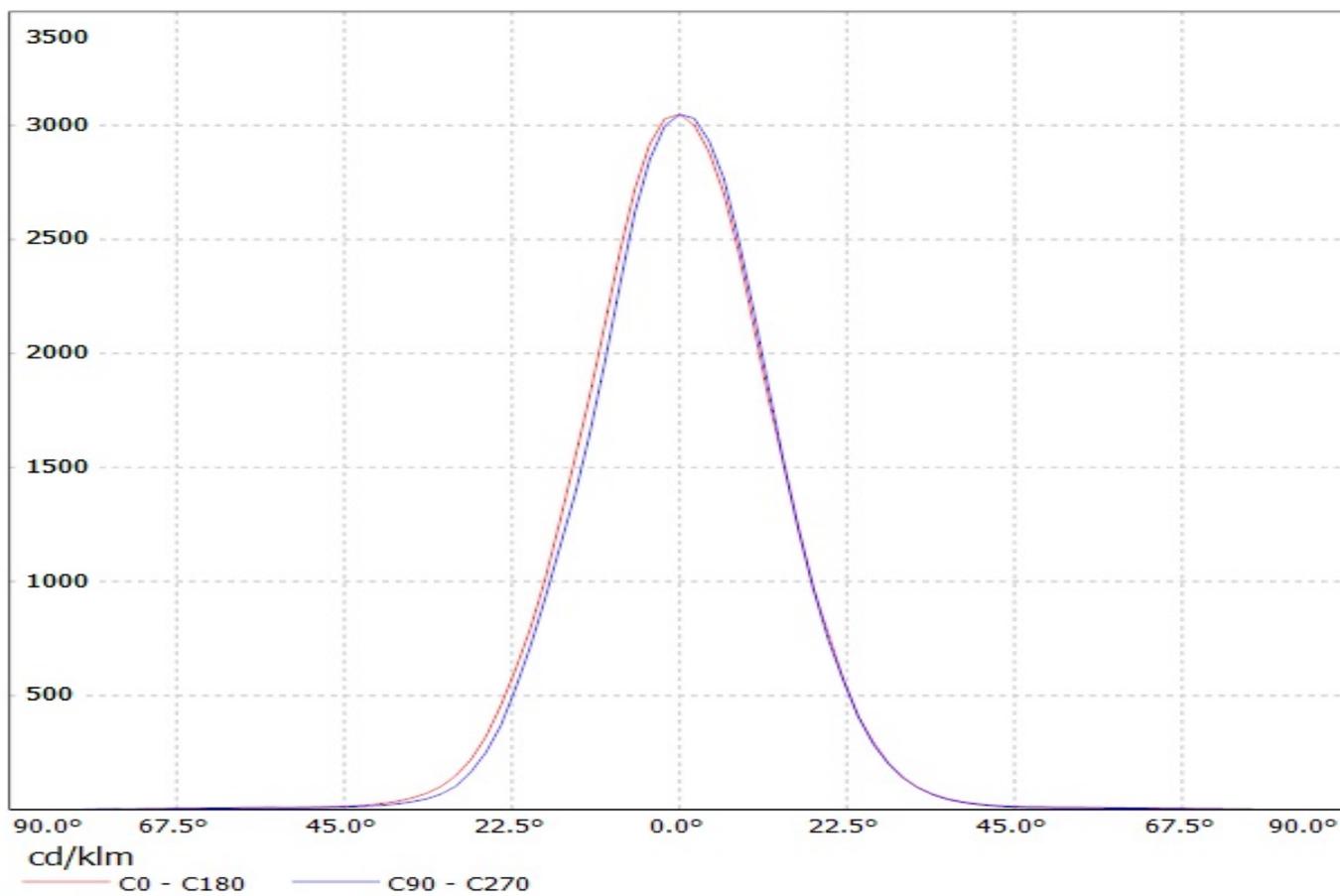
Luminaire: Ledil Oy RES-DIFF_rebel RES-DIFF_rebel
Lamps: 1 x Luxeon Rebel (white)



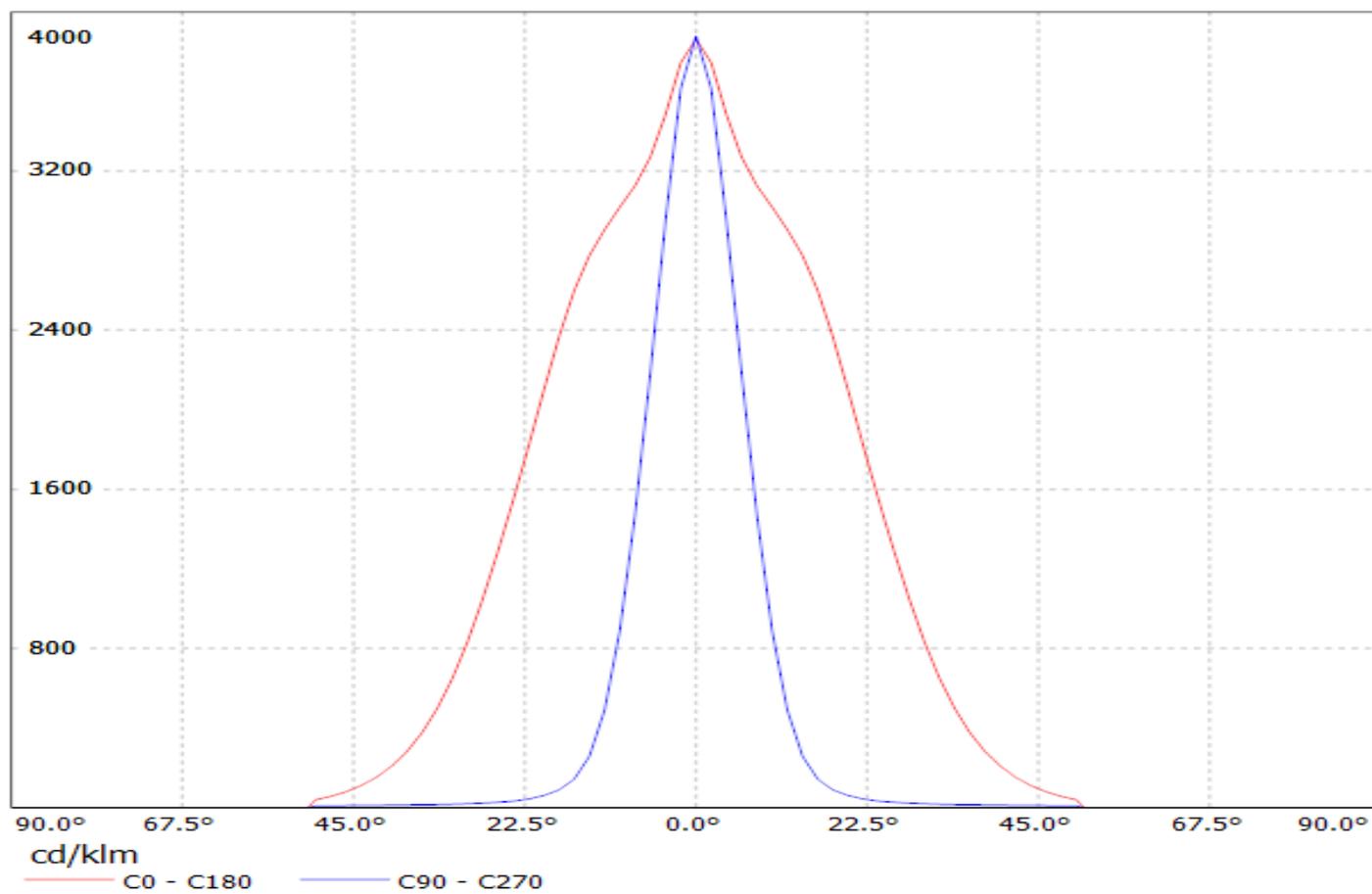
Luminaire: Ledil Oy RES-SS_rebel RES-SS_rebel
Lamps: 1 x LUXEON REBEL (white)



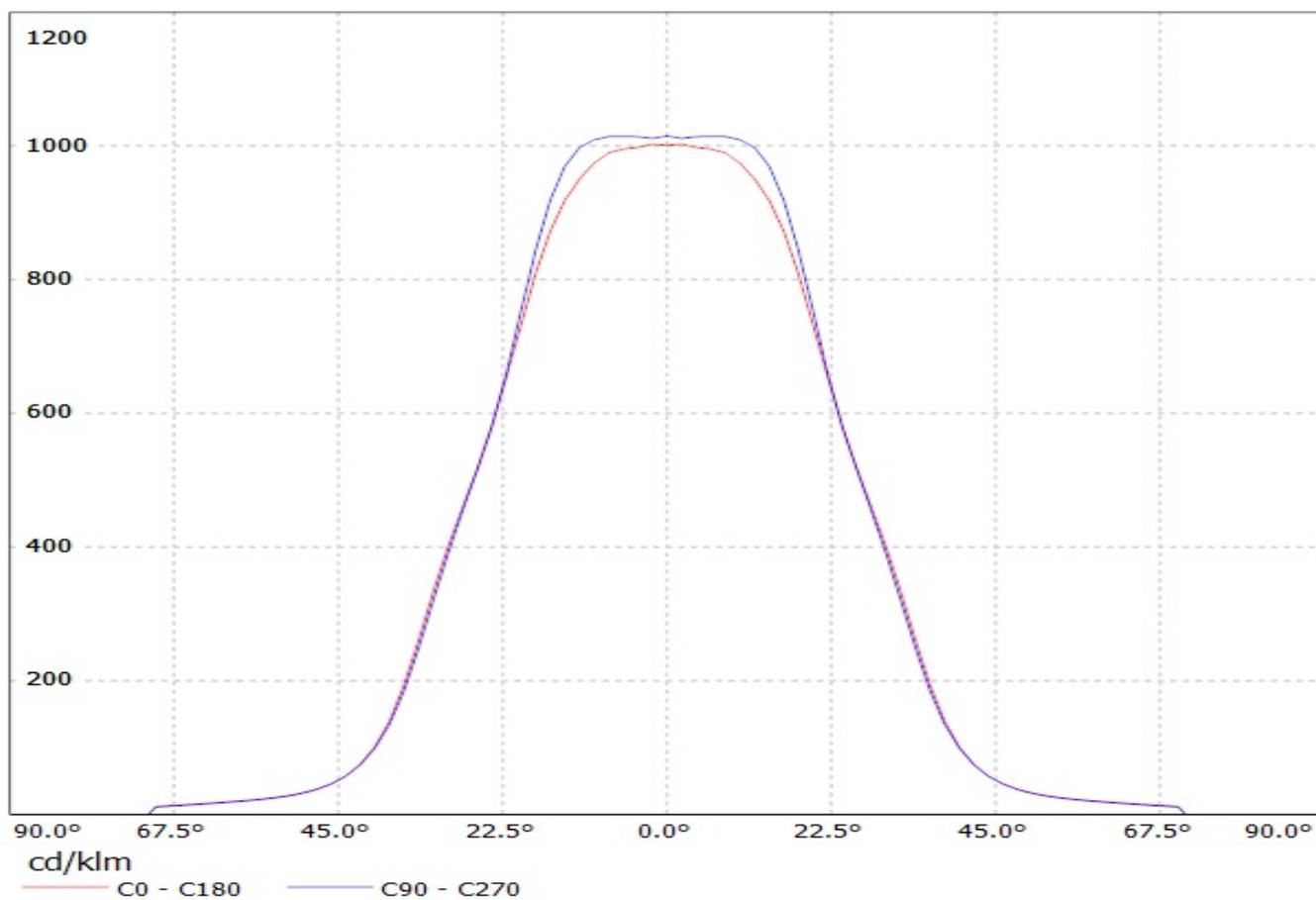
Luminaire: Ledil Oy FCX10851_RES-M (Luxeon Rebel 81lm @ 250mA) Efficiency=84%
Lamps: 1 x Luxeon Rebel 81lm @ 250mA



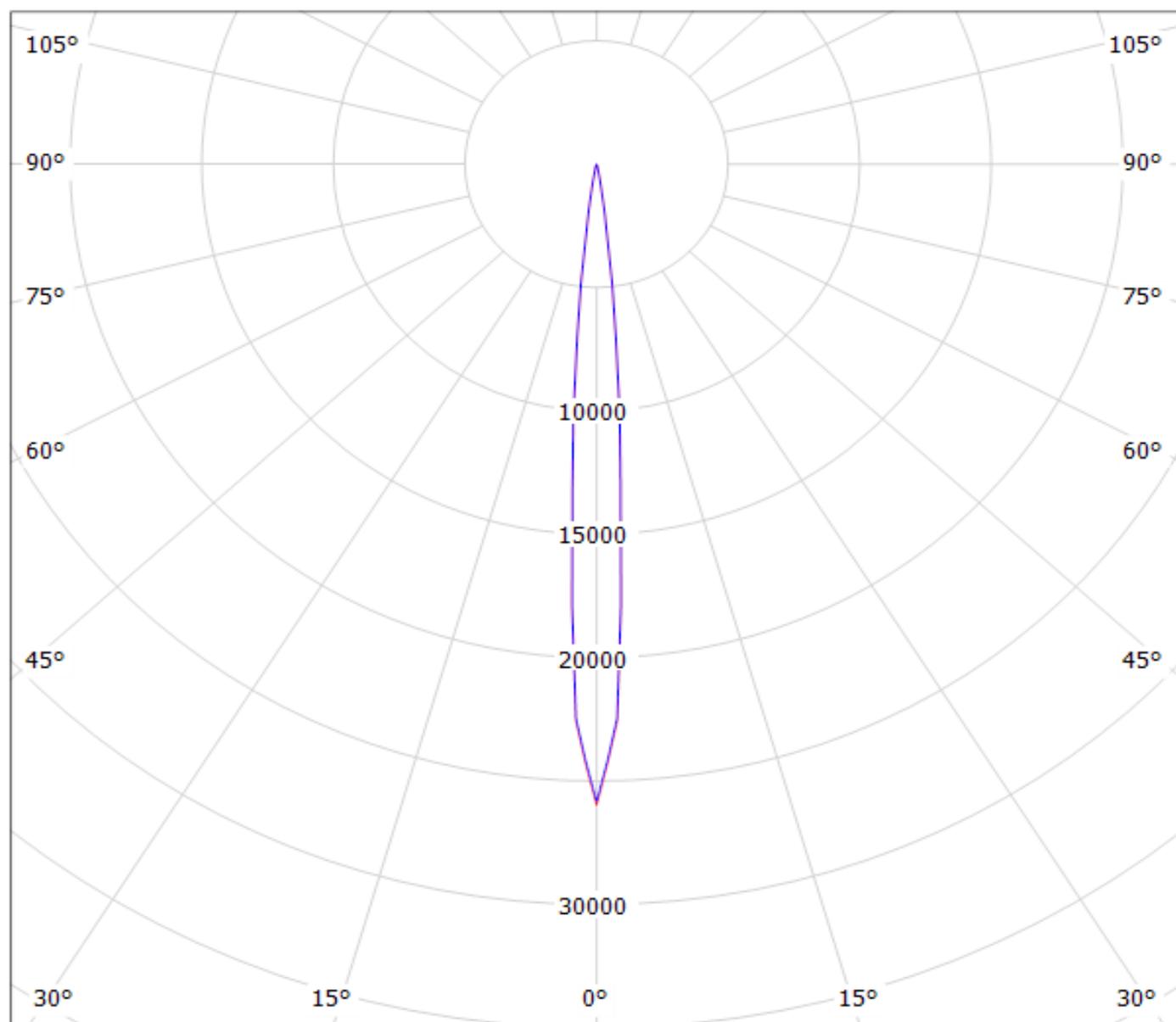
Luminaire: Ledil Oy FA10854_RES-O FA10854_RES-O
Lamps: 1 x Luxeon Rebel (white)



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)

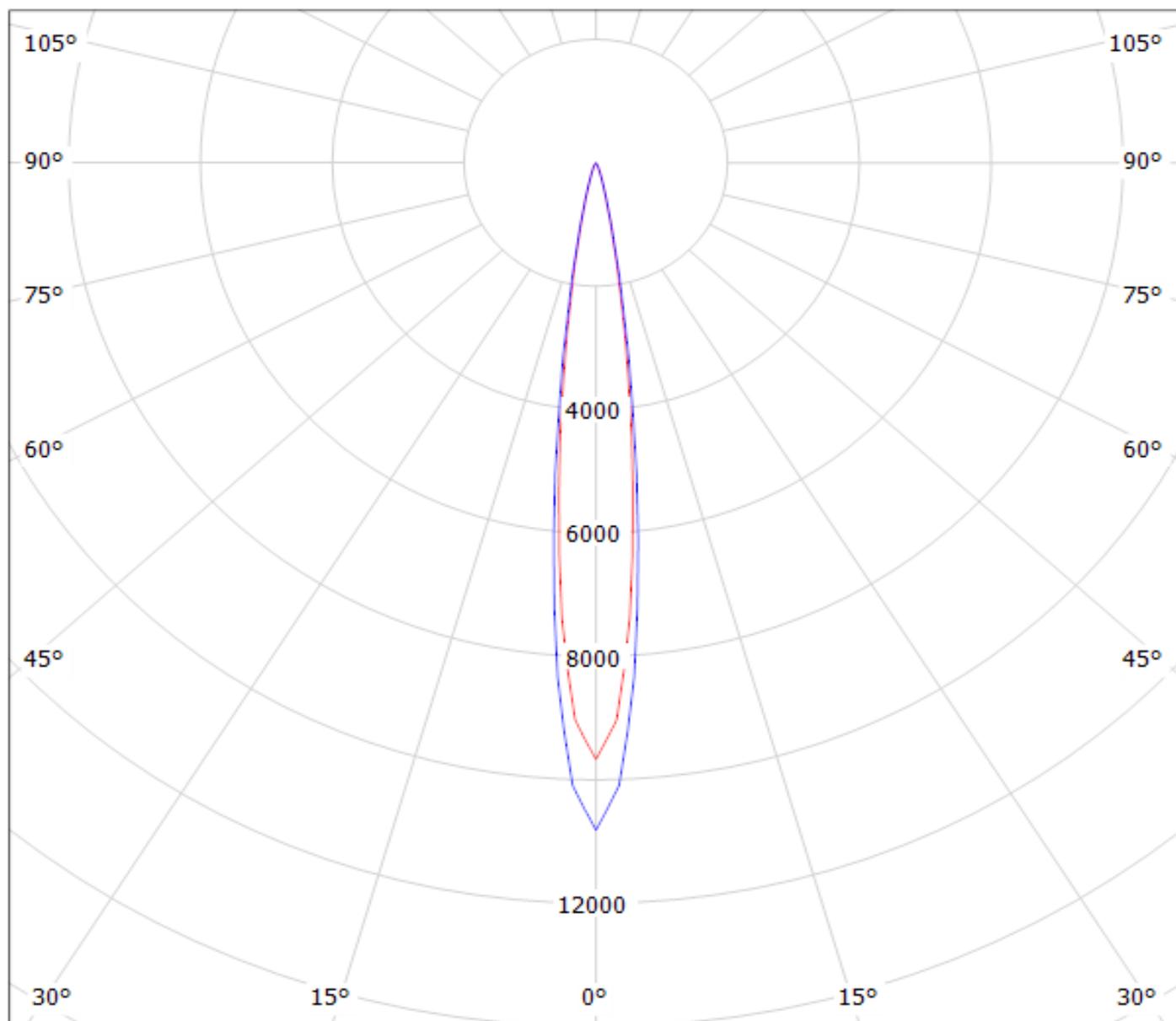


cd/klm

— C0 - C180

— C90 - C270

Luminaire: Ledil Oy RES-DIFF_rebel RES-DIFF_rebel
Lamps: 1 x Luxeon Rebel (white)

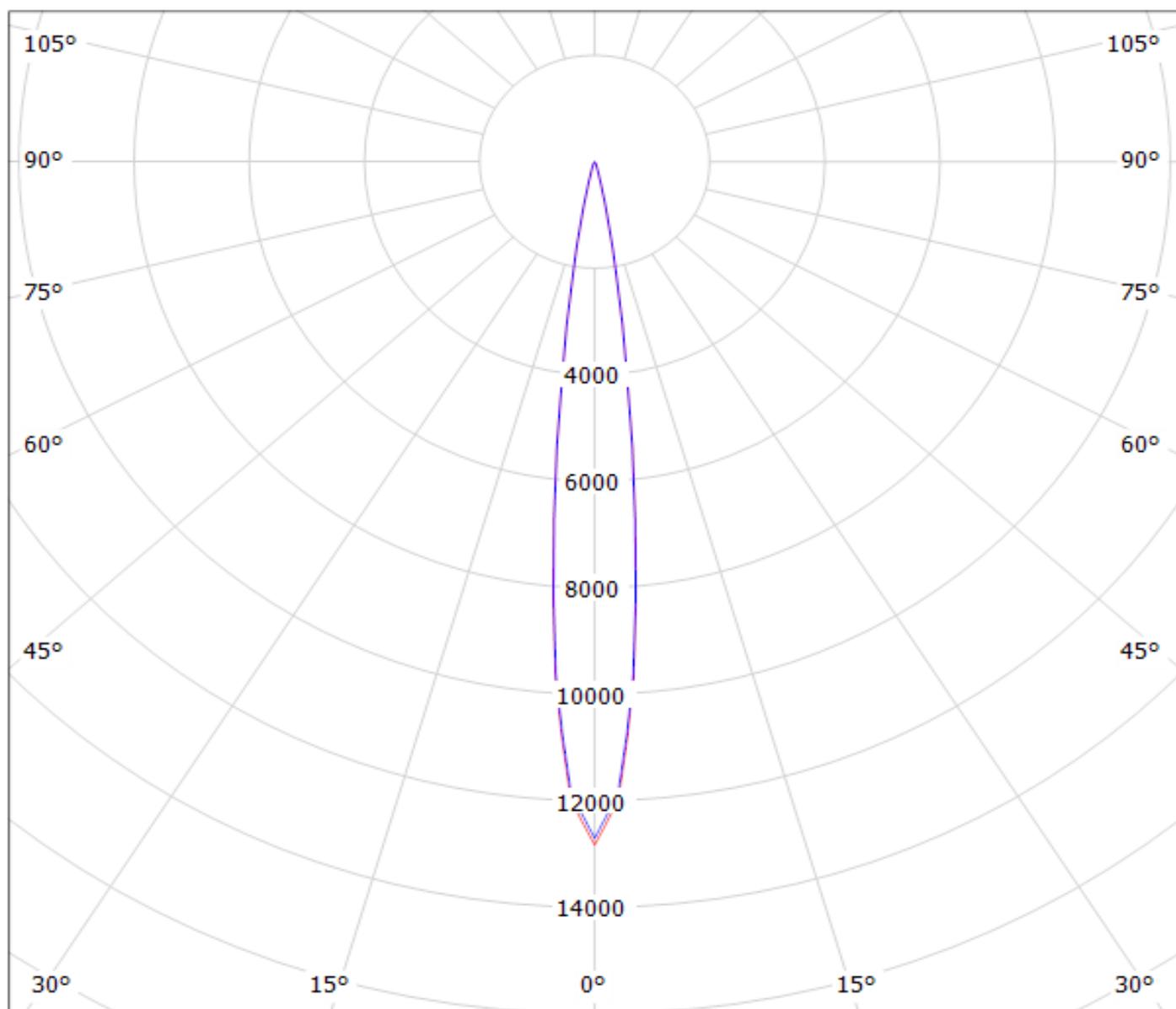


cd/klm

— C0 - C180

— C90 - C270

Luminaire: Ledil Oy RES-SS_rebel RES-SS_rebel
Lamps: 1 x LUXEON REBEL (white)

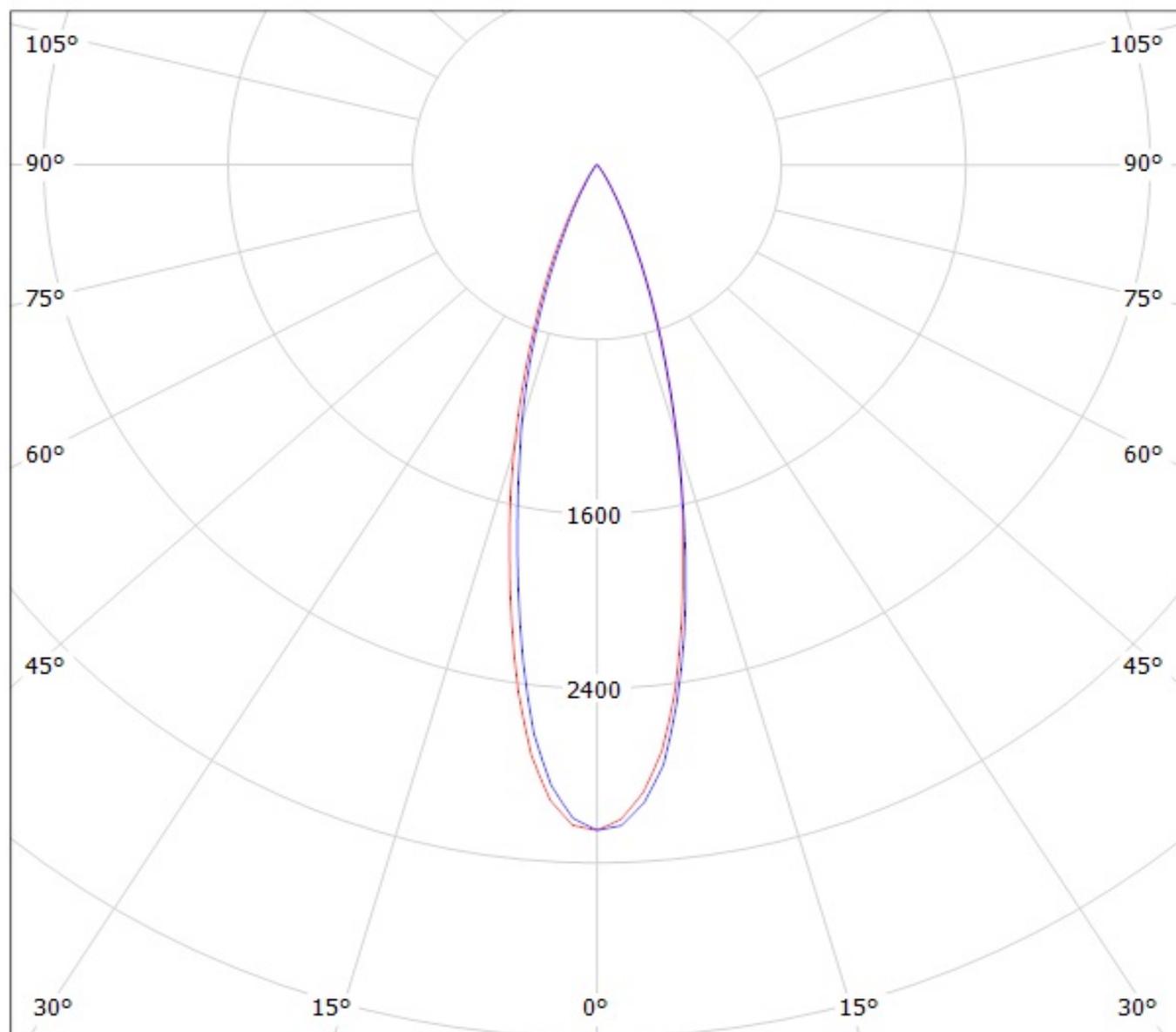


cd/klm

— C0 - C180

— C90 - C270

Luminaire: Ledil Oy FCX10851_RES-M (Luxeon Rebel 81lm @ 250mA) Efficiency=84%
Lamps: 1 x Luxeon Rebel 81lm @ 250mA

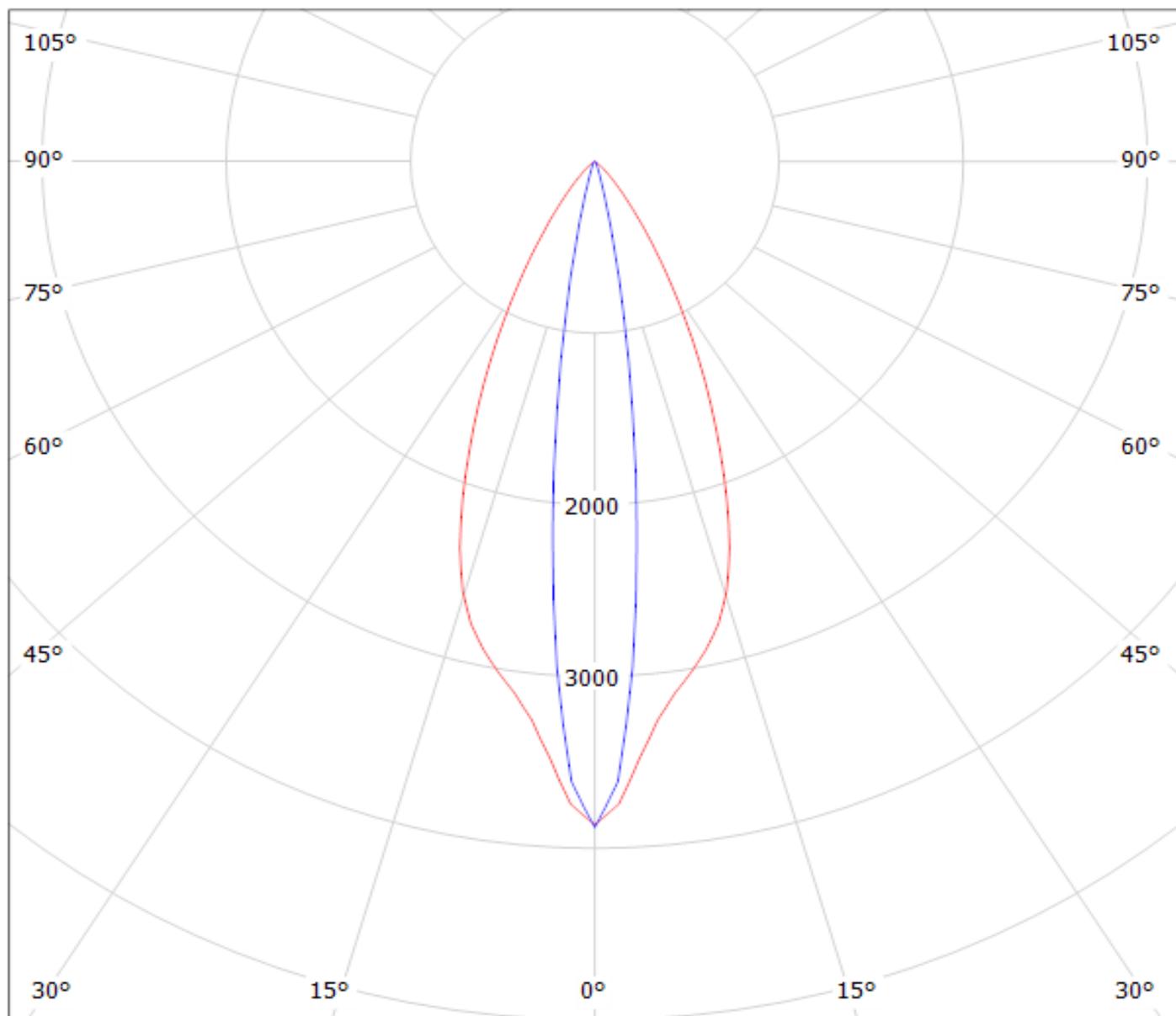


cd/klm

— C0 - C180

— C90 - C270

Luminaire: Ledil Oy FA10854_RES-O FA10854_RES-O
Lamps: 1 x Luxeon Rebel (white)

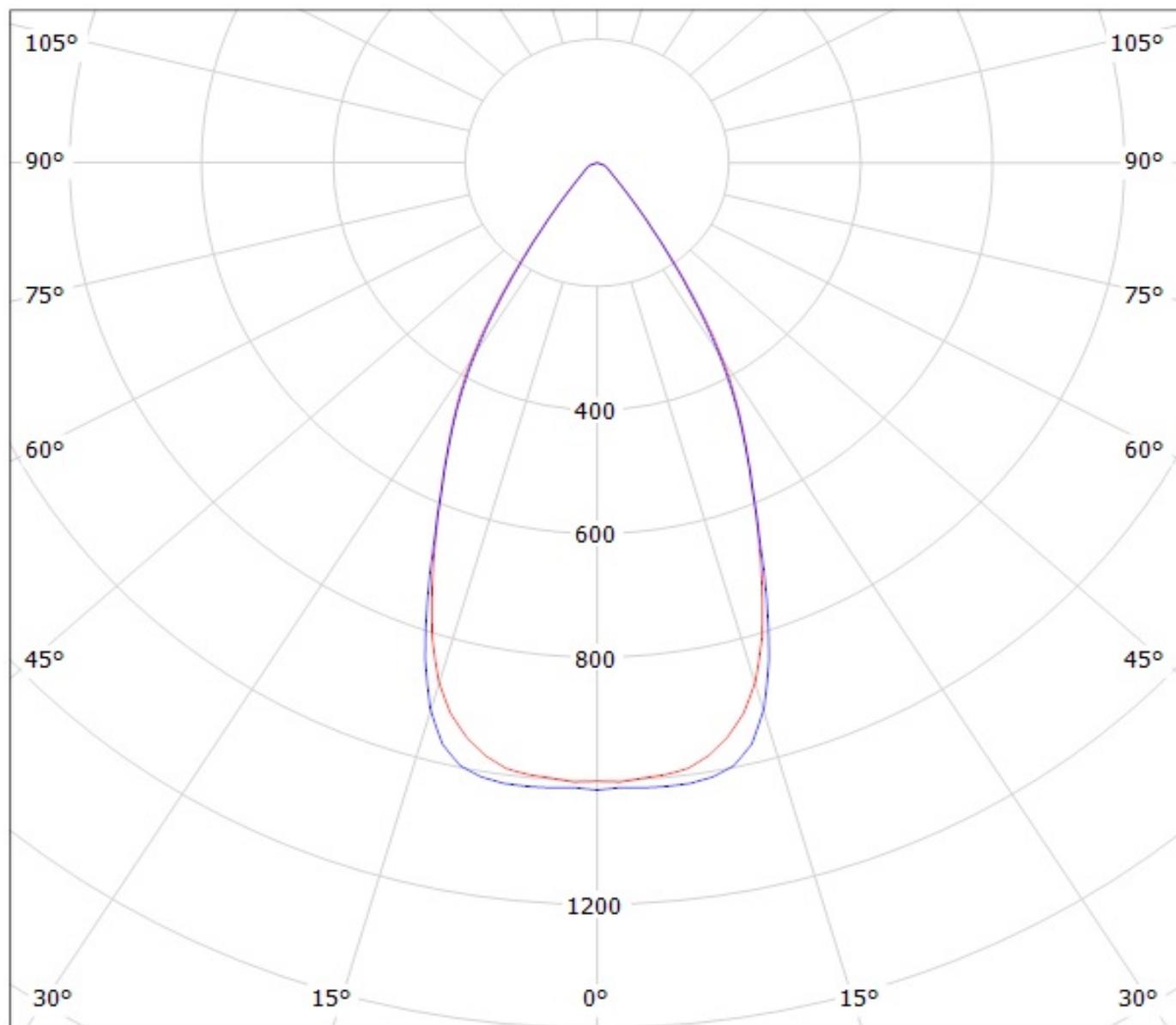


cd/klm

— 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