


**Ordering number FCX10856\_RES-RS**

Family	Rose	FWHM	8 degrees
Type	-	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	Ready		


**Ordering number FCX10852\_RES-D**

Family	Rose	FWHM	13 degrees
Type	-	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	Ready		


**Ordering number FCX10853\_RES-SS**

Family	Rose	FWHM	13 degrees
Type	-	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	Ready		


**Ordering number FCX10851\_RES-M**

Family	Rose	FWHM	30 degrees
Type	-	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	Ready		

**Ordering number FCX10855\_RES-W**

Family	Rose	FWHM	31 degrees
Type	-	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	Ready		

**Ordering number FCX10854\_RES-O**

Family	Rose	FWHM	42+13 degrees
Type	-	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	Ready		

**Ordering number FCX11675\_RES-WW**

Family	Rose	FWHM	54 degrees
Type	-	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	PC		
Fastening	Tape		
Status	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 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 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](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

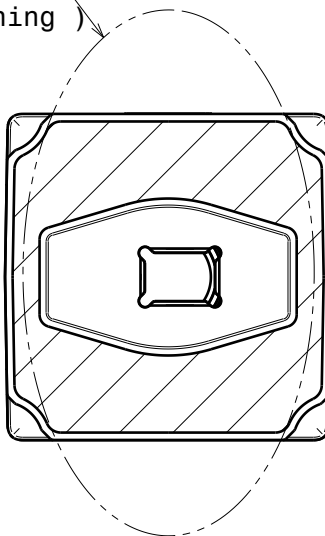
C

B

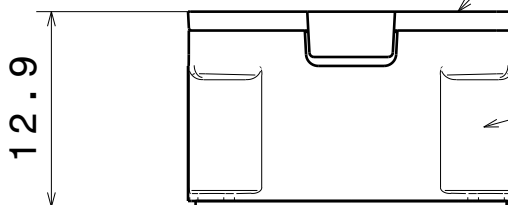
A

Oval beam direction

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



Lens

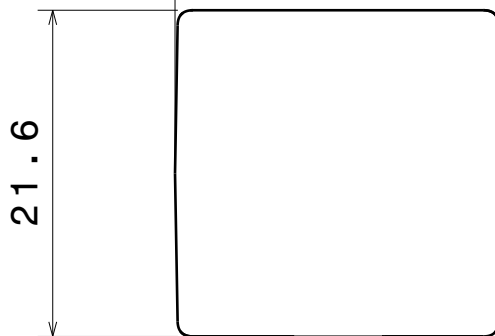


Holder

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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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

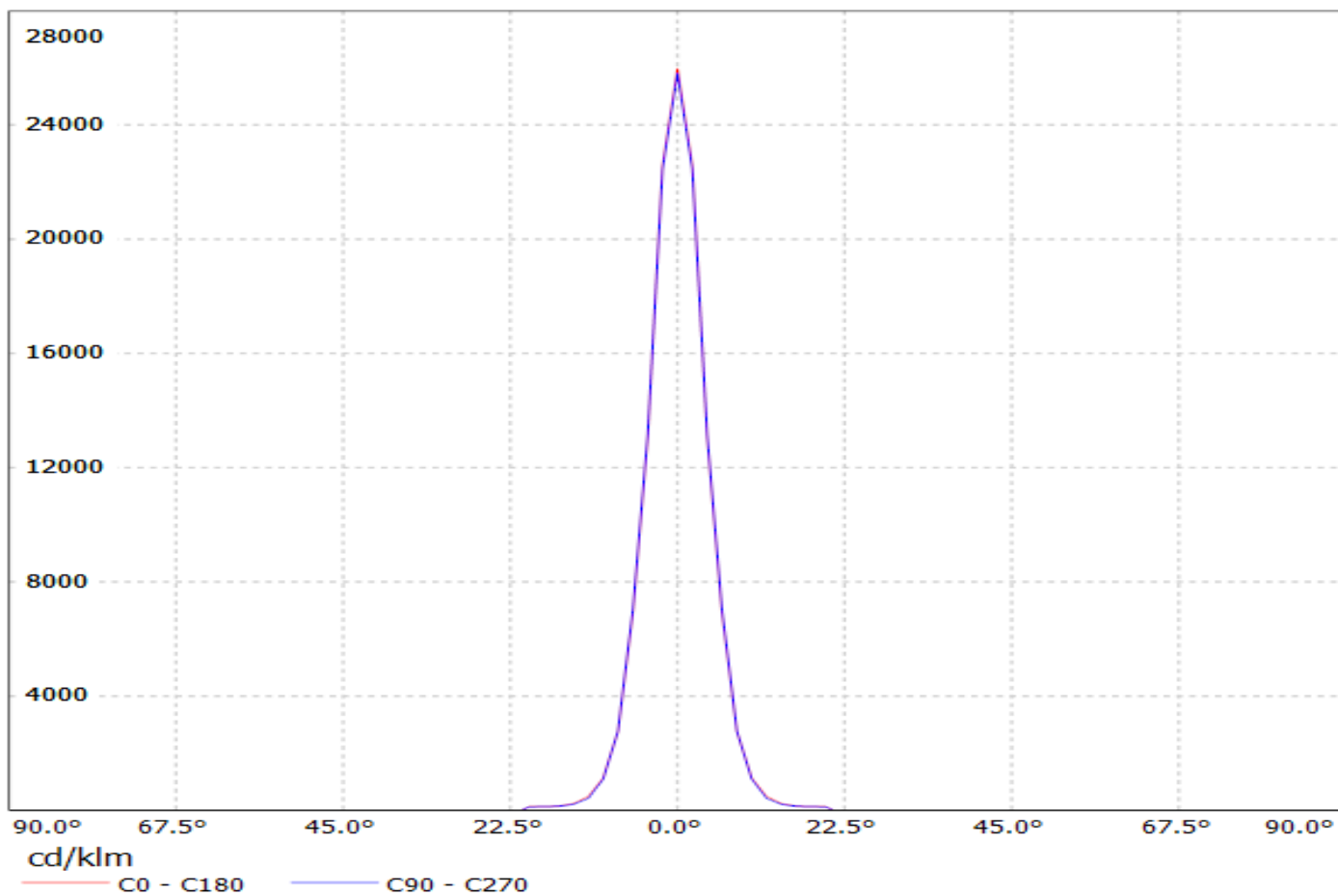
2

2

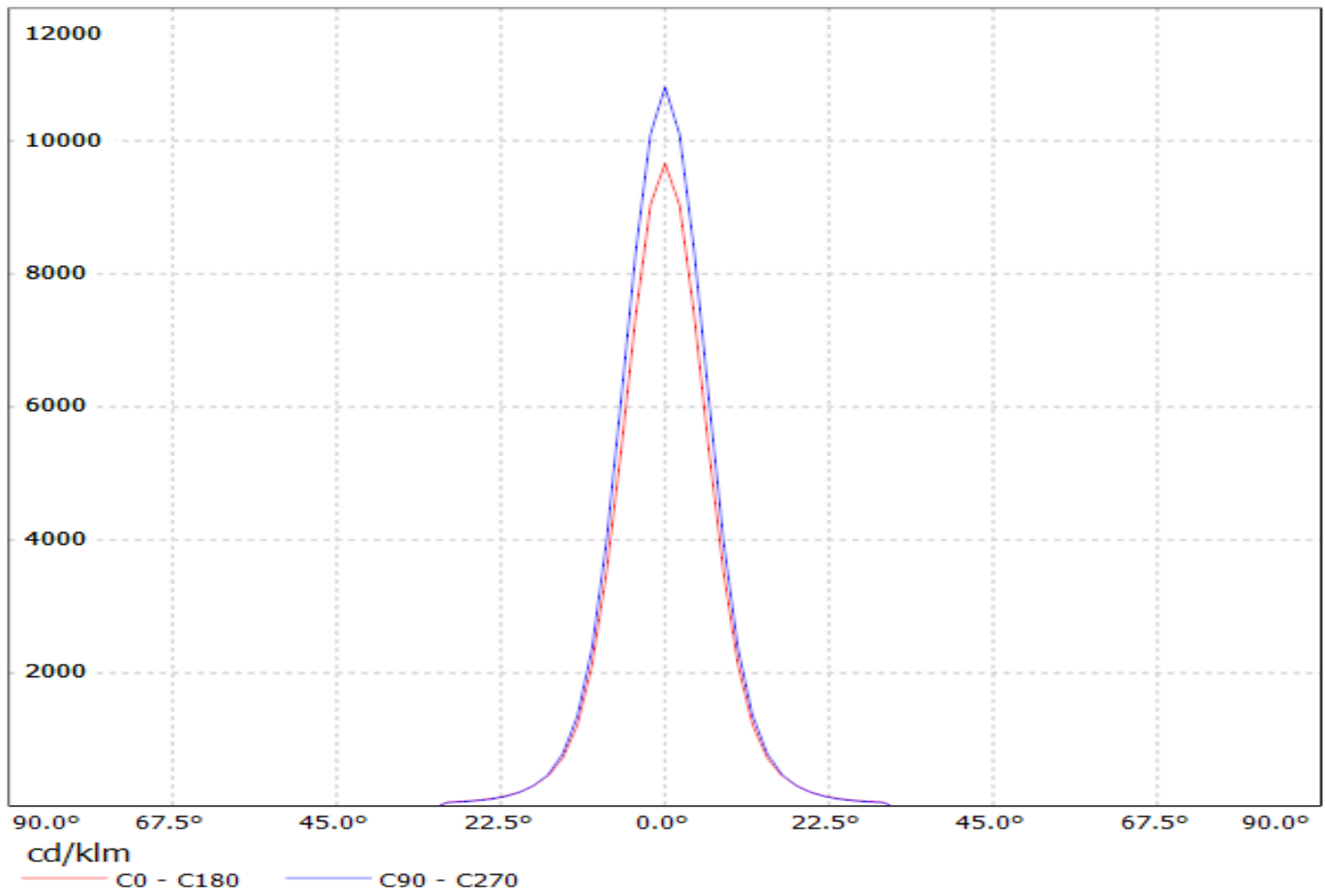
1

1

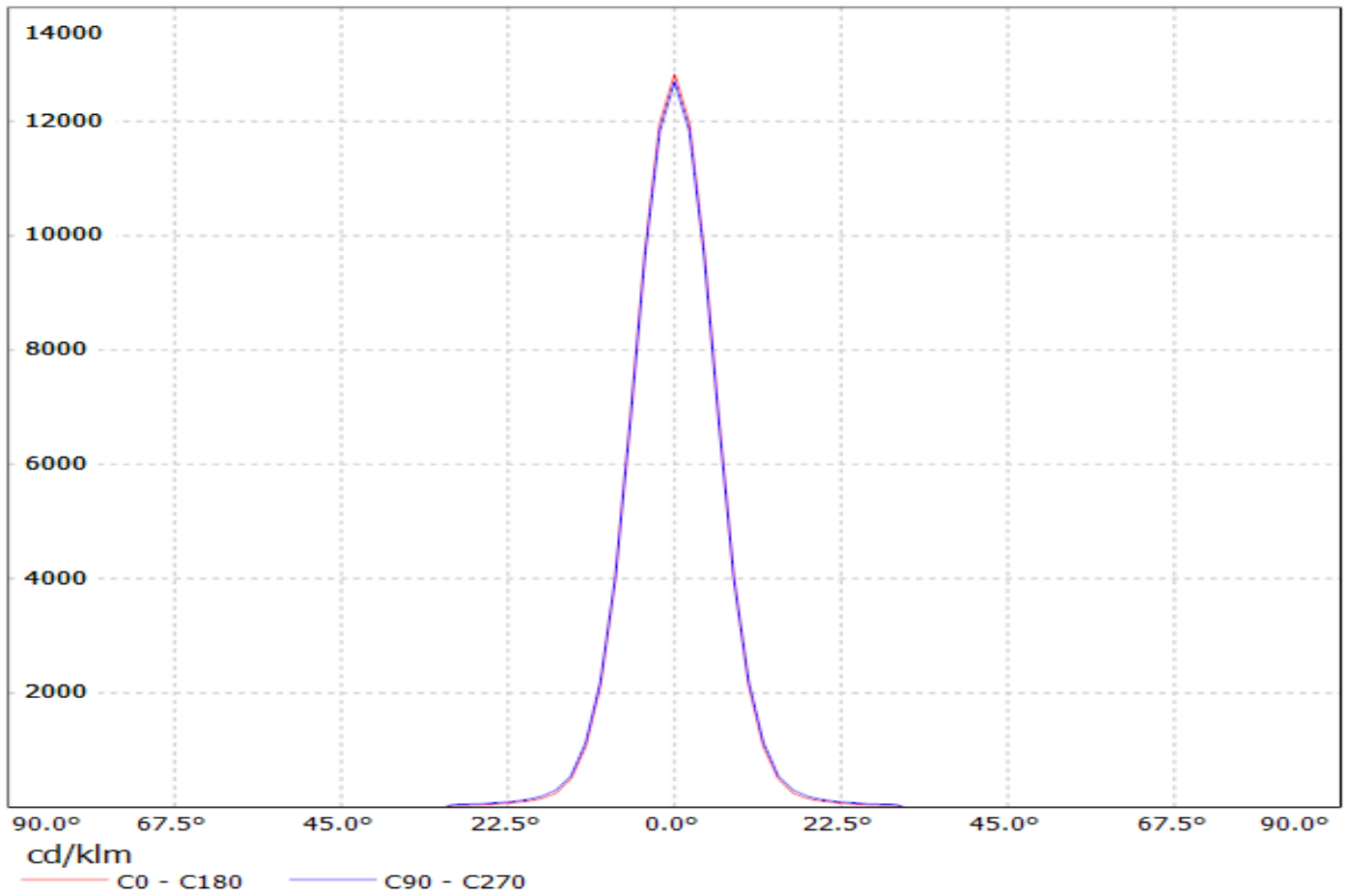
Luminaire: Ledil Oy RES-RS\_rebel RES-RS\_rebel  
Lamps: 1 x Luxeon Rebel (white)



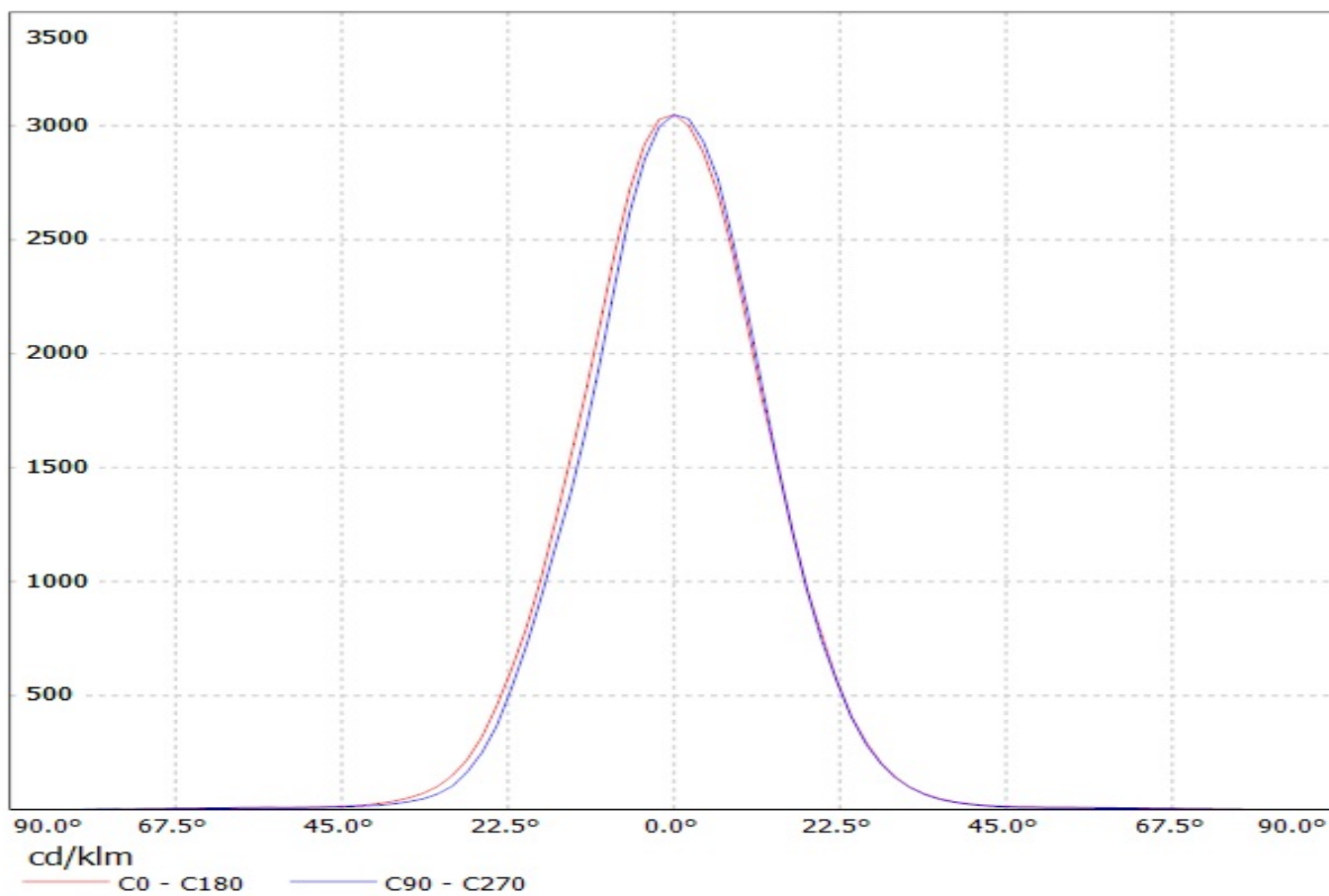
Luminaire: Ledil Oy RES-DIFF\_rebel RES-DIFF\_rebel  
Lamps: 1 x Luxeon Rebel (white)



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

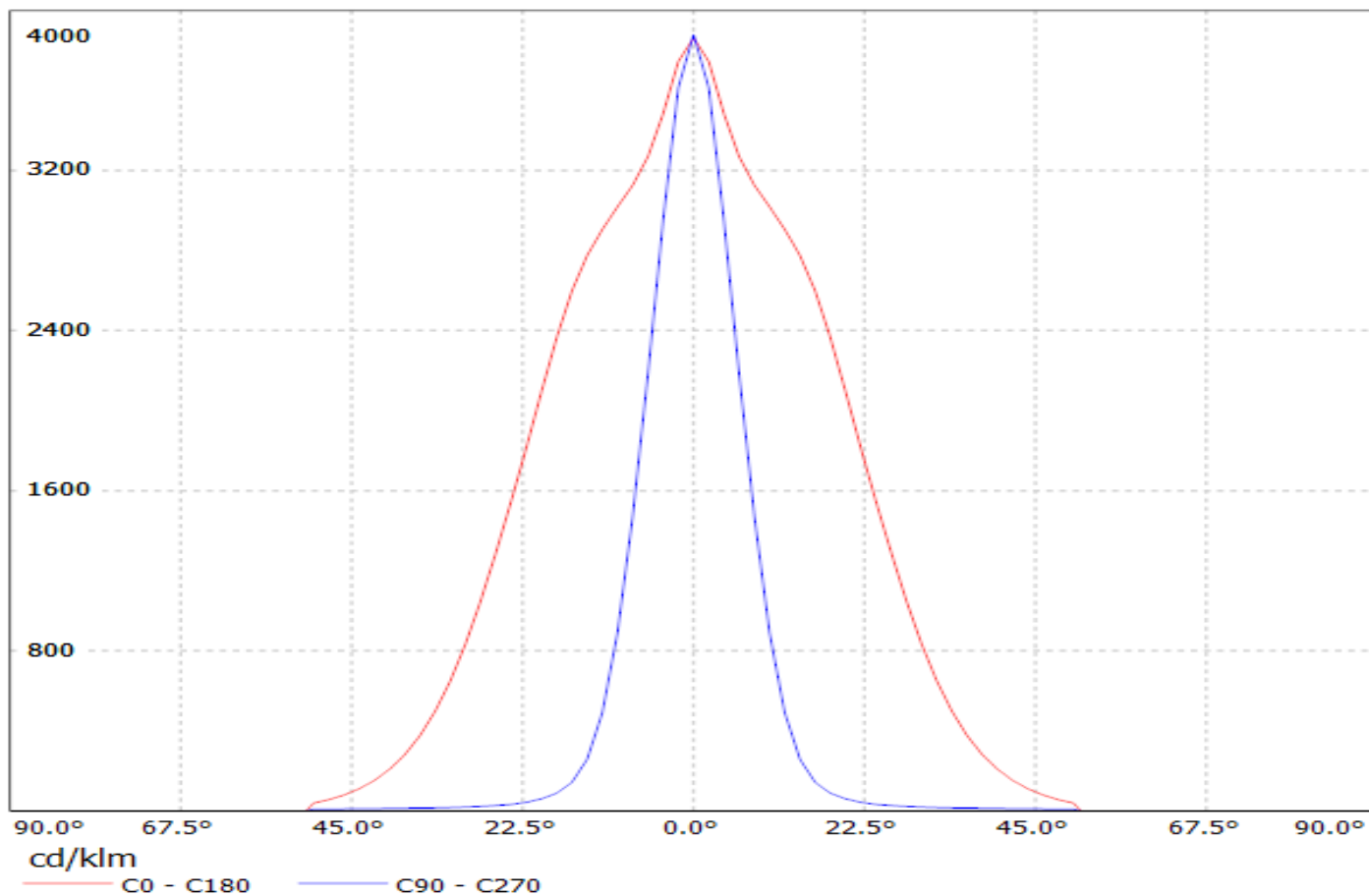


Luminaire: Ledil Oy FCX10851\_RES-M (Luxeon Rebel 81lm @ 250mA) Efficiency=84%  
Lamps: 1 x Luxeon Rebel 81lm @ 250mA

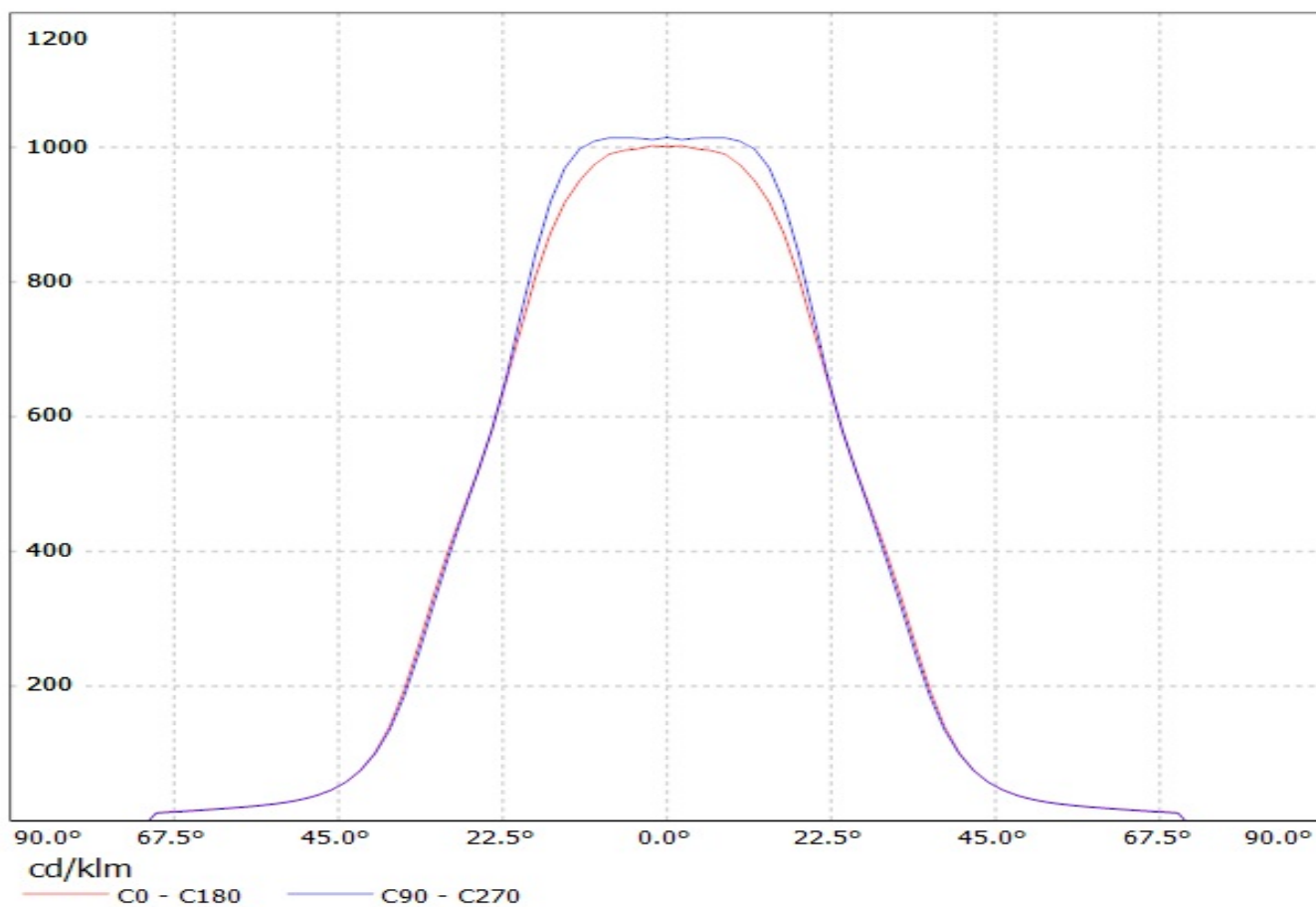




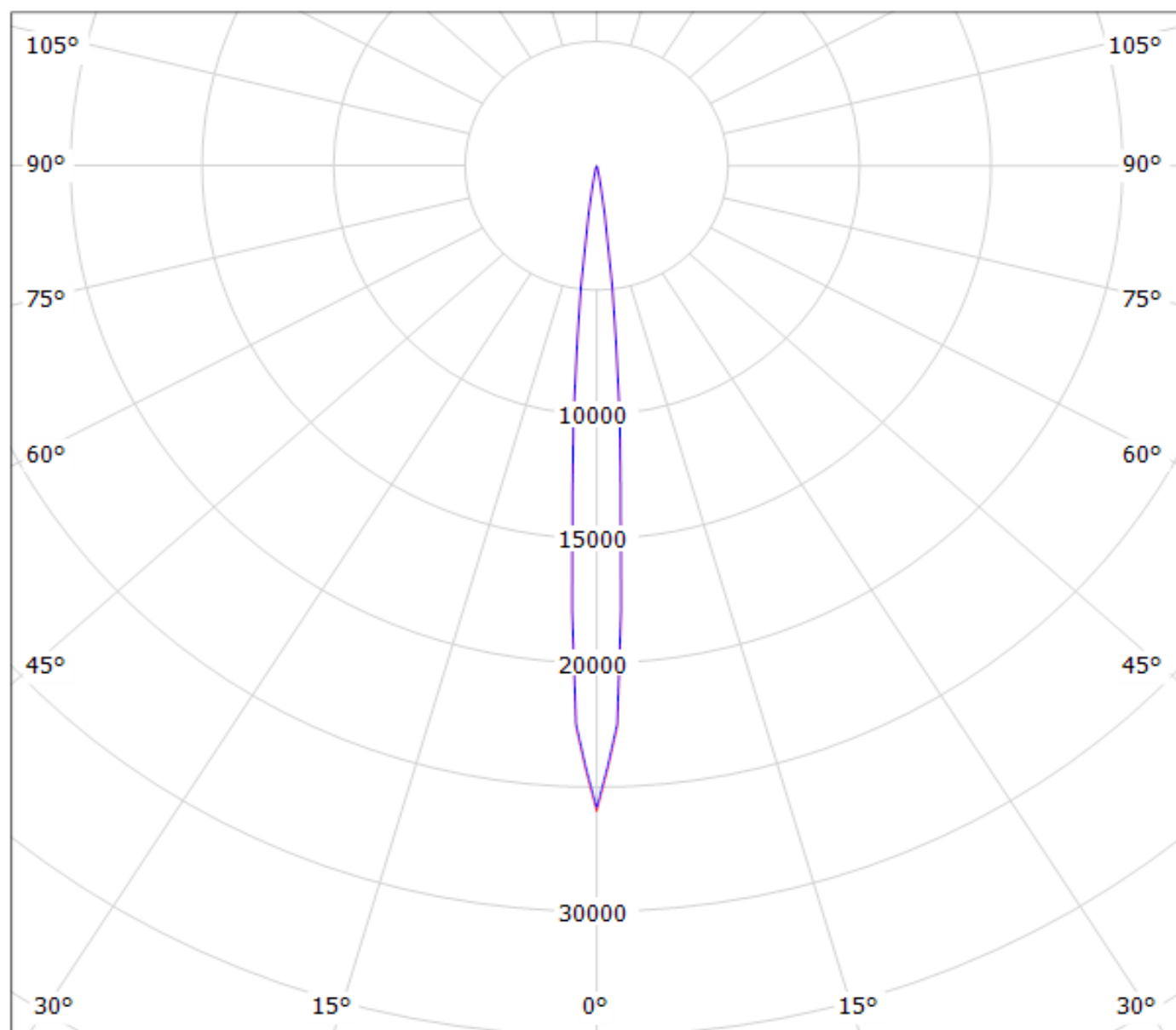
Luminaire: Ledil Oy FA10854\_RES-O FA10854\_RES-O  
Lamps: 1 x Luxeon Rebel (white)



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)

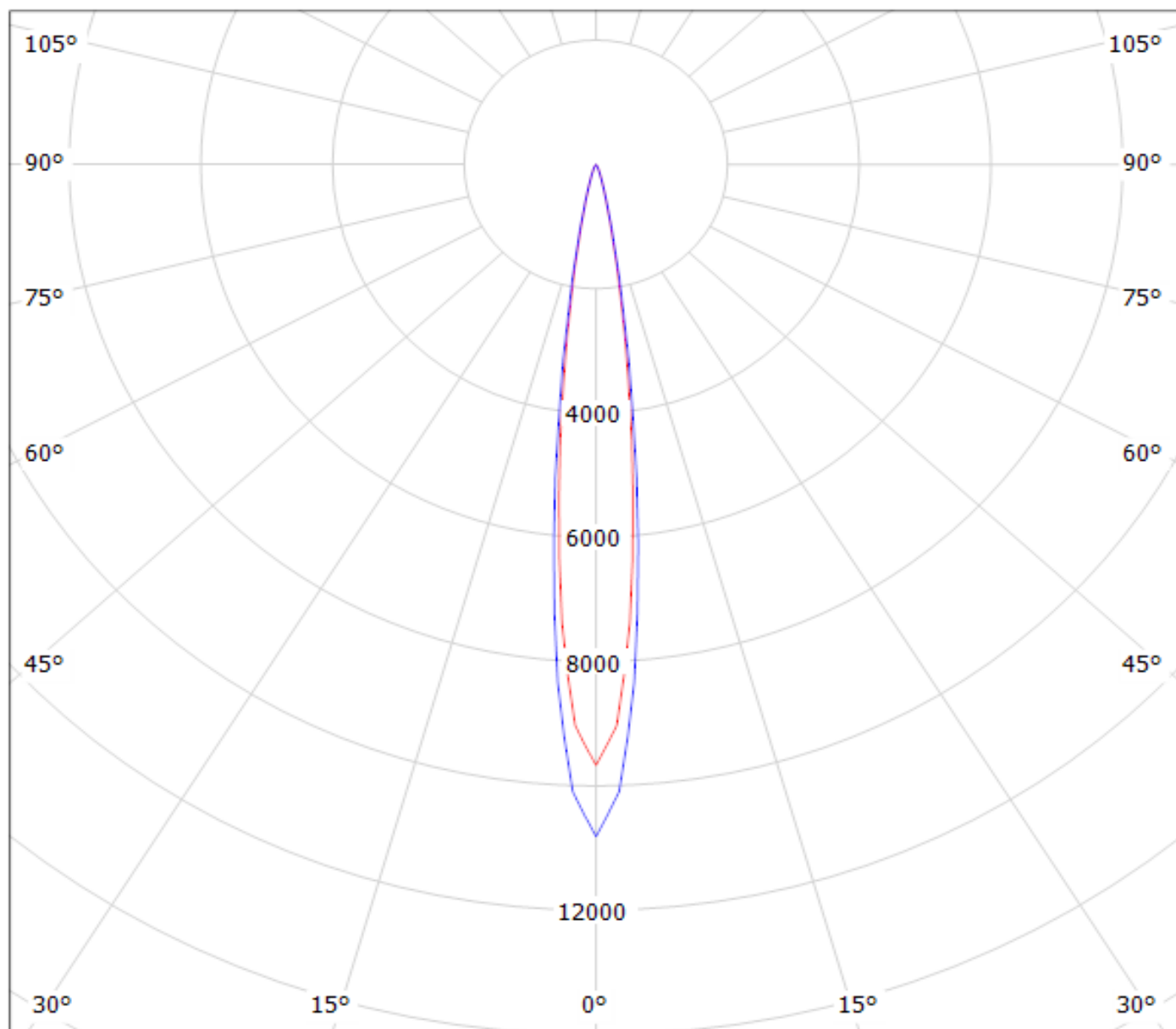


cd/klm

— C0 - C180

— C90 - C270

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

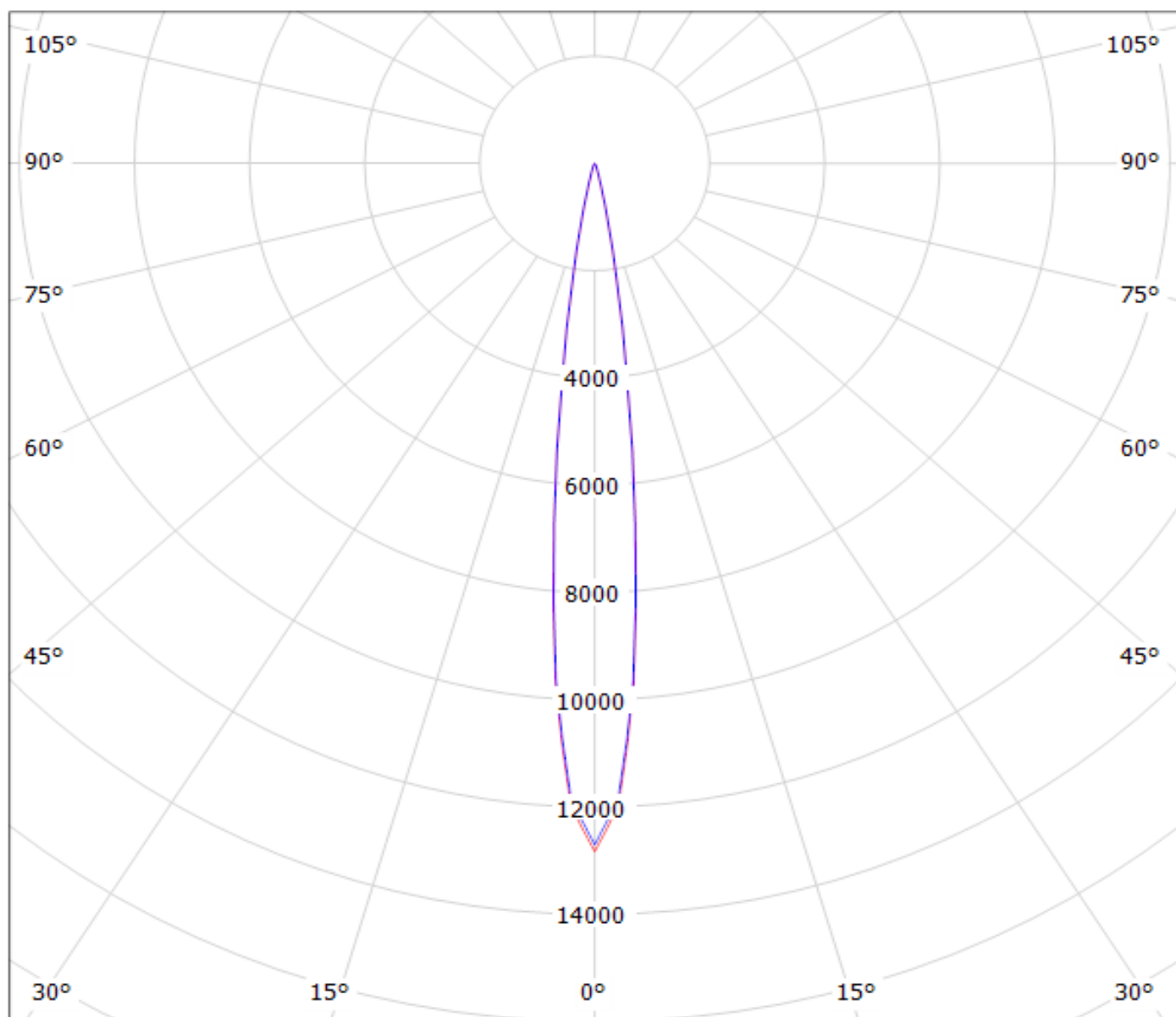


cd/klm

— C0 - C180

— C90 - C270

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

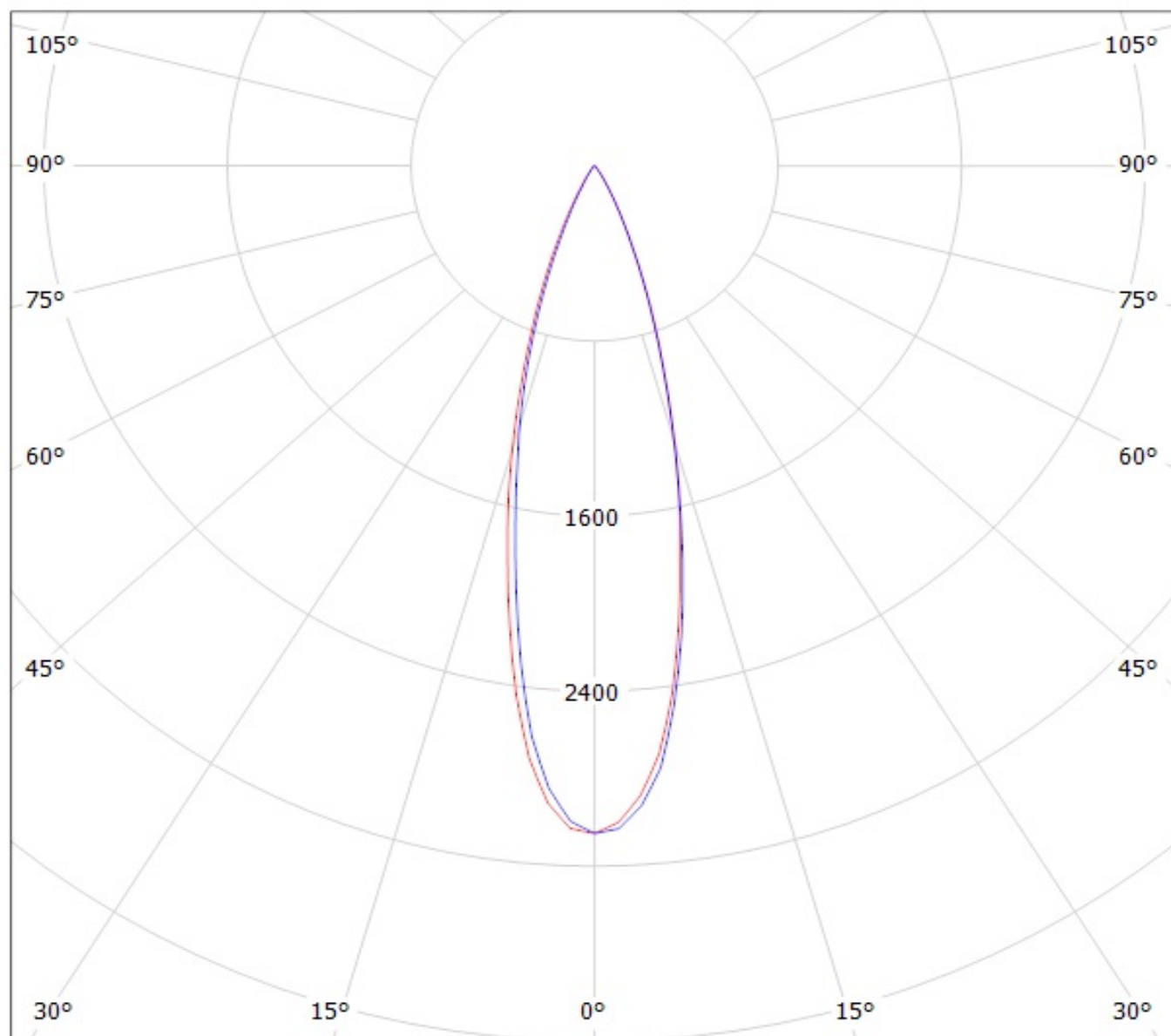


cd/klm

— C0 - C180

— C90 - C270

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

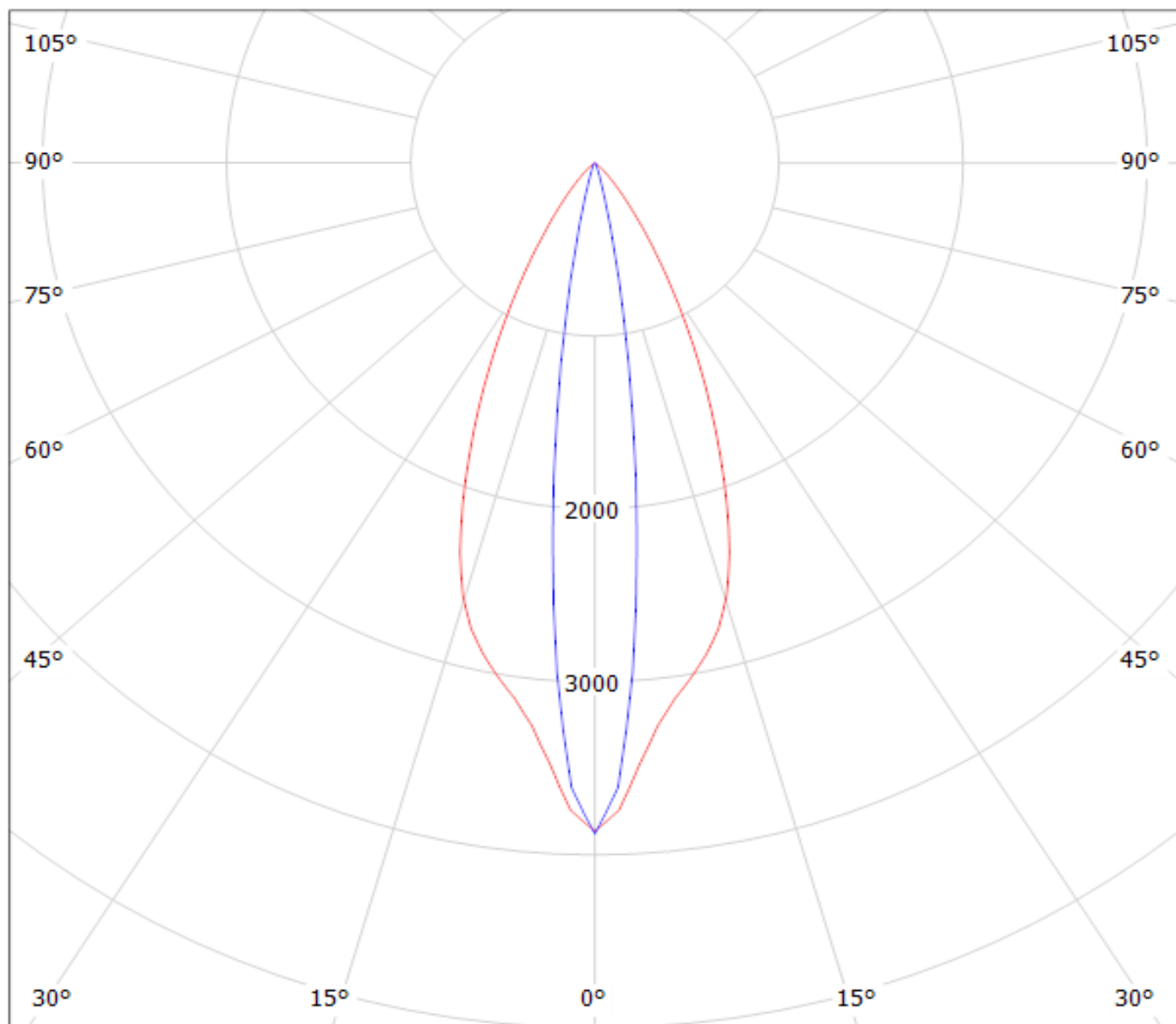


cd/klm

— C0 - C180

— C90 - C270

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

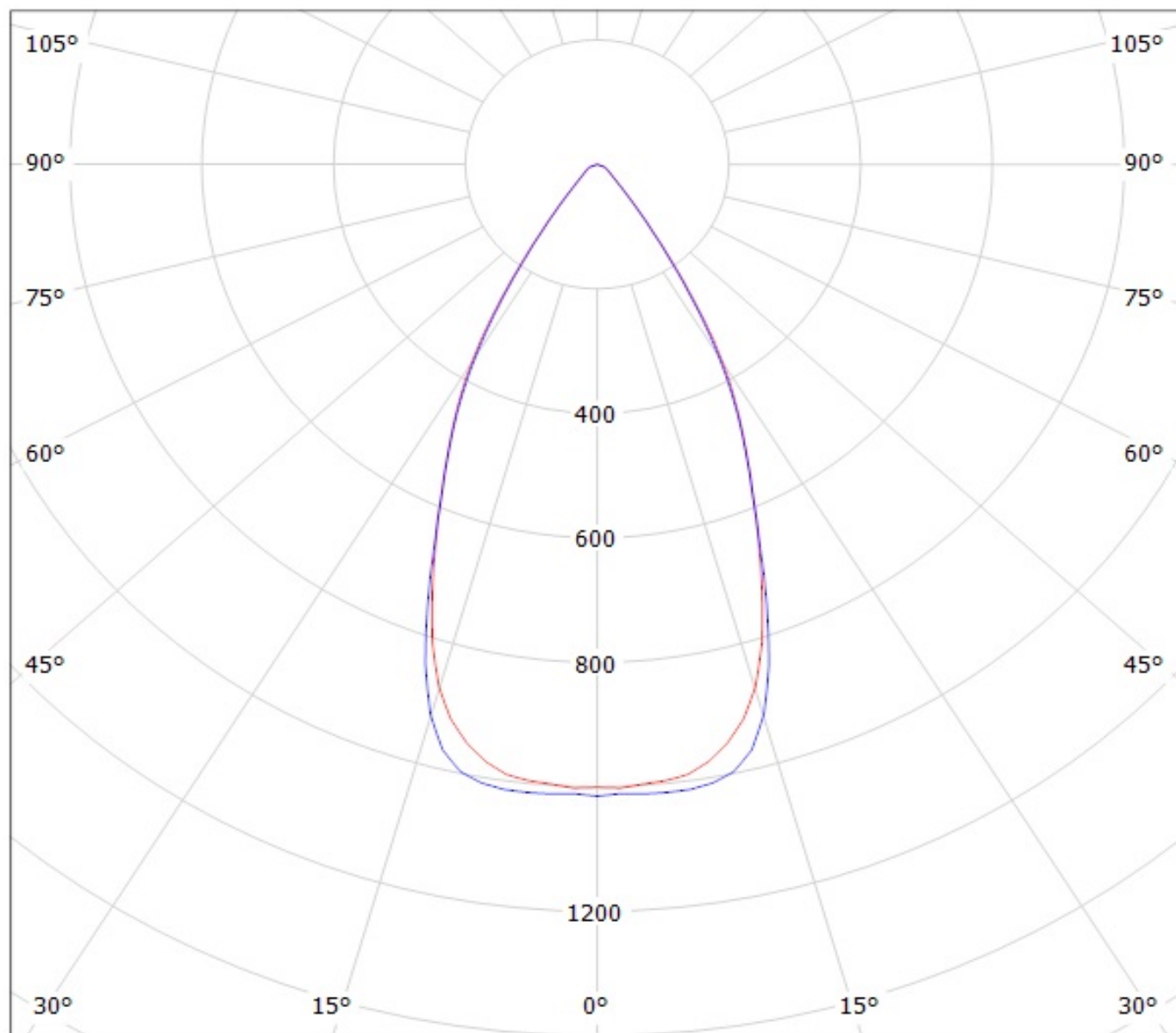


cd/klm

— 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





Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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**Адрес:** 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.