

**Ordering number FA11212_TINA-RS**

Family	Tina	FWHM	12 degrees
Type	Assembly	Efficiency	89 %
LED	LUXEON Z ES	cd/Im	19.800
Color	Black	Gerber File	Available
Diameter	16.1 mm		
Height	9.4 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	PC		
Fastening	Pin, tape		
Status	On production		

**Ordering number FA11209_TINA-D**

Family	Tina	FWHM	14 degrees
Type	Assembly	Efficiency	89 %
LED	LUXEON Z ES	cd/Im	12.000
Color	Black	Gerber File	Available
Diameter	16.1 mm		
Height	9.4 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	PC		
Fastening	Pin, tape		
Status	On production		

**Ordering number FA11210_TINA-M**

Family	Tina	FWHM	29 degrees
Type	Assembly	Efficiency	84 %
LED	LUXEON Z ES	cd/Im	2.800
Color	Black	Gerber File	Available
Diameter	16.1 mm		
Height	9.4 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	PC		
Fastening	Pin, tape		
Status	On production		

**Ordering number FA11203_TINA-O**

Family	Tina	FWHM	36+13 degrees
Type	Assembly	Efficiency	85 %
LED	LUXEON Z ES	cd/Im	5.000
Color	Black	Gerber File	Available
Diameter	16.1 mm		
Height	9.4 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	PC		
Fastening	Pin, tape		
Status	On production		



Ordering number FA11211_TINA-W

Family	Tina	FWHM	46 degrees
Type	Assembly	Efficiency	90 %
LED	LUXEON Z ES	cd/lm	1.700
Color	Black	Gerber File	Available
Diameter	16.1 mm		
Height	9.4 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	PC		
Fastening	Pin, 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

Tina series

last update 27/8/2013

GENERAL INFORMATION

- Product series especially designed & optimized for LUXEON Z ES series of LEDs.
- Special care taken to make light distribution as uniform as possible.
- Lens material optical grade PMMA with high UV and temperature resistance. Allows use of high current and temperature conditions.

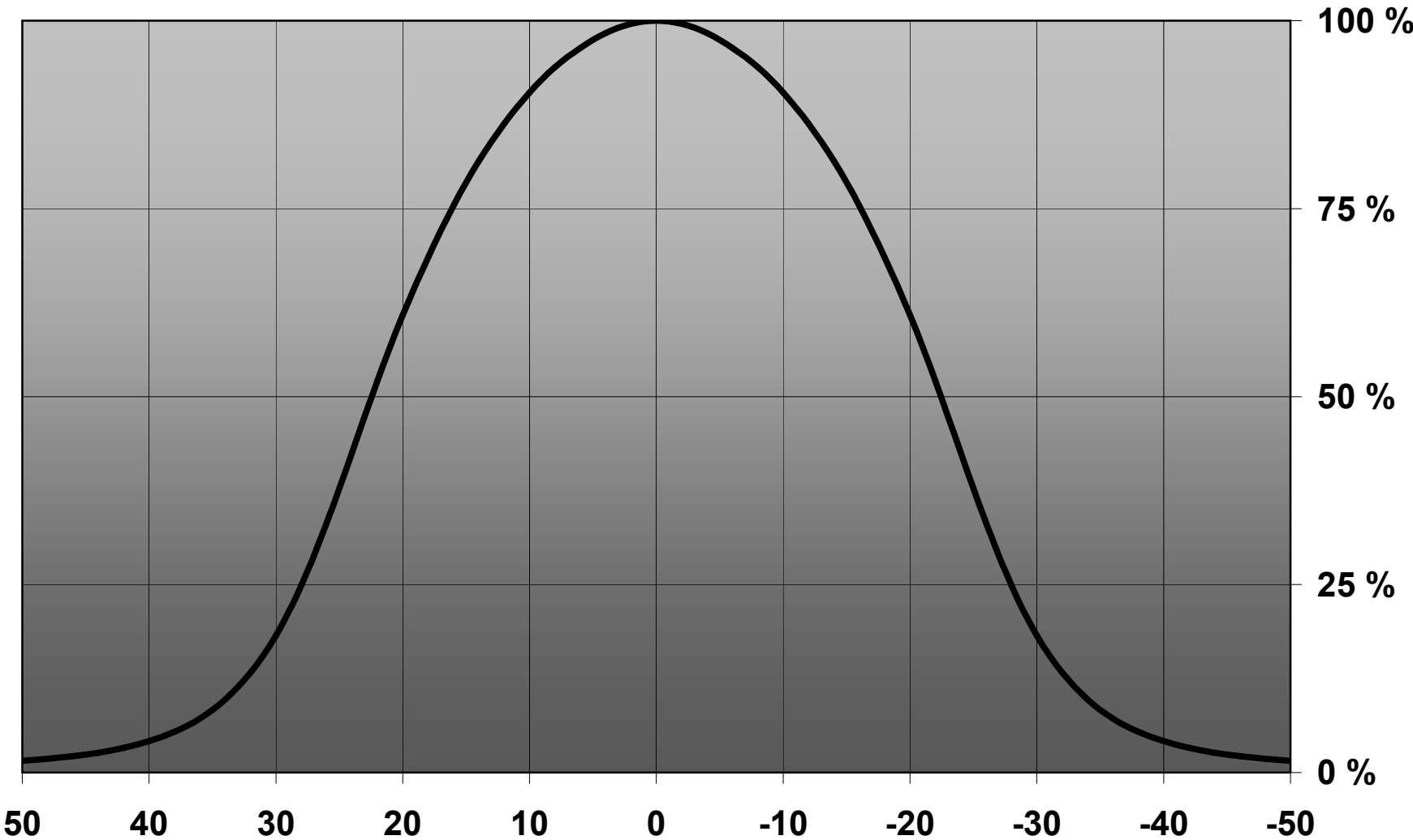
Please find more information about used material from below:

http://ledil.fi/sites/default/files/Documents/Technical/Material/PMMA%20N%20UL94_Yellow%20Card.pdf

<http://ledil.fi/sites/default/files/Documents/Technical/Material/PMMA%20N%20PLEXIGLAS-Datasheet.pdf>

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

Relative Intensity of FA11211_Tina-RE-W



4

3

2

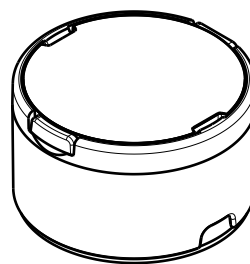
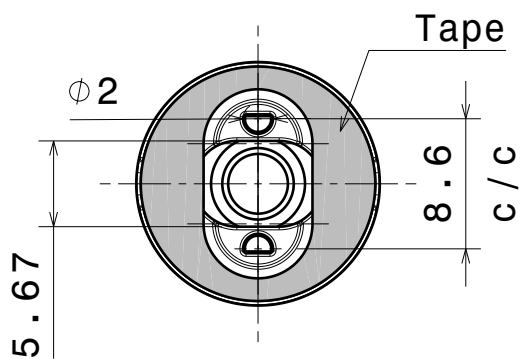
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D

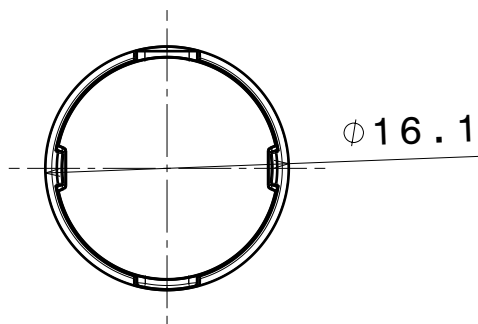
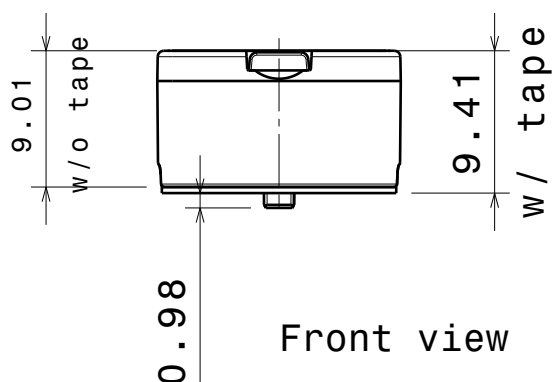
C

B

A



Isometric view



Materials
Lens: PMMA
Holder: PC
Tape: PU Foam

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LEDiL

Ledil Oy
Salorankatu 10
FIN 24240 SALO
Finland

DRAWING TITLE

Mechanical Drawing

DRAWN BY

DATE

as

10.9.2012

TINA-RE

CHECKED BY

DATE

sn

-

SIZE

PART NUMBER

REV

A4

TINA-RE

001

DESIGNED BY

DATE

-

-

SCALE

2:1

WEIGHT

1,46 g

SHEET

1/1

D

A

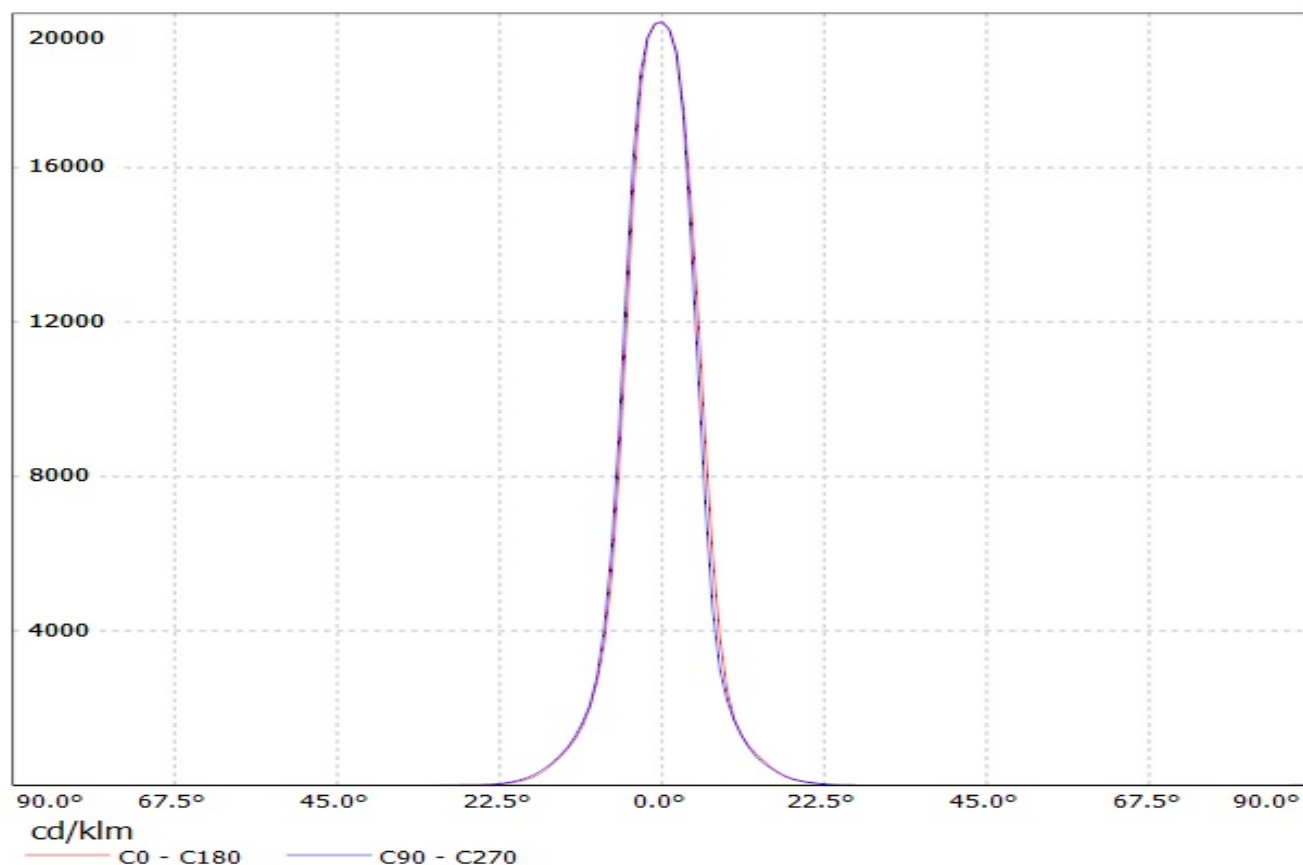
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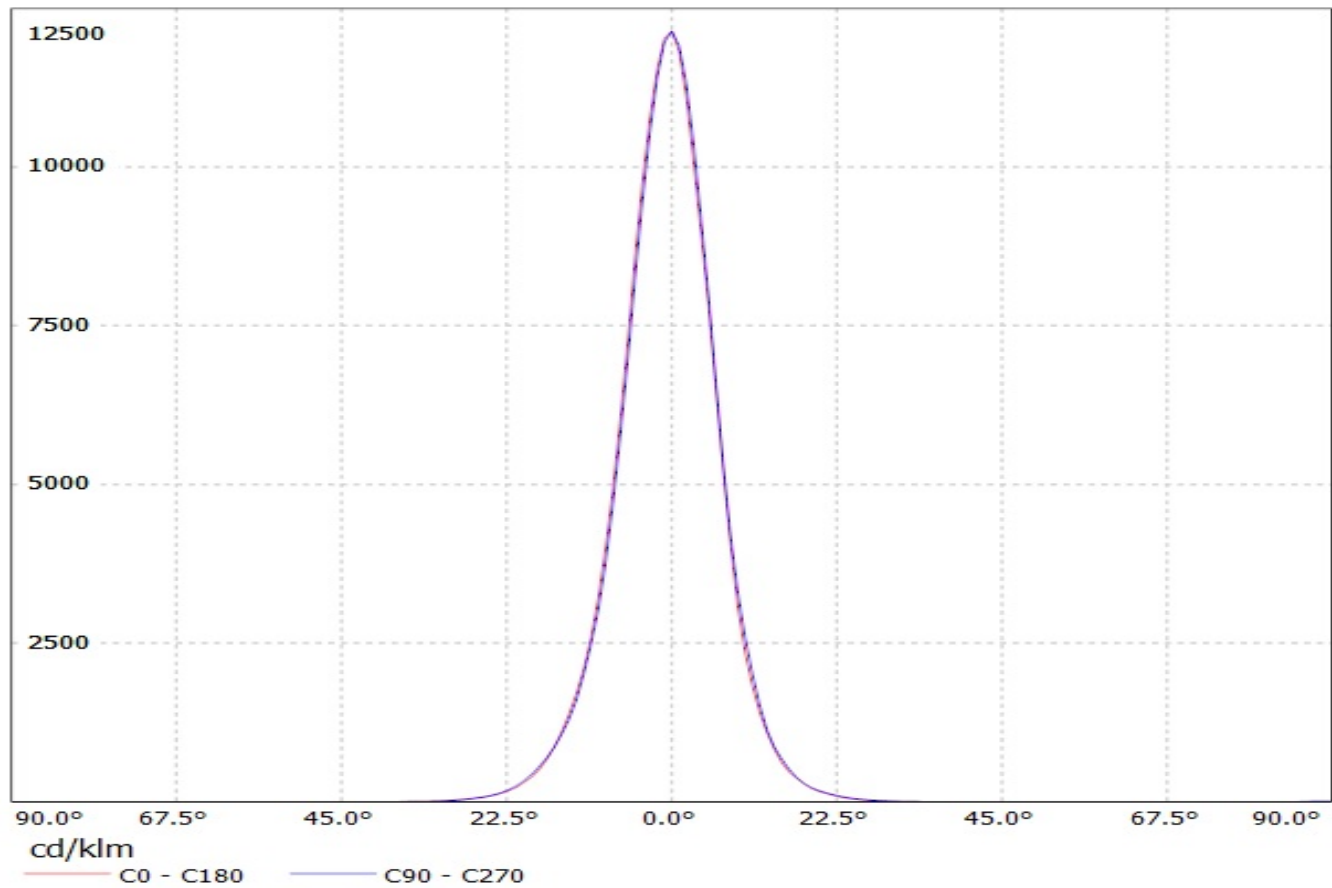
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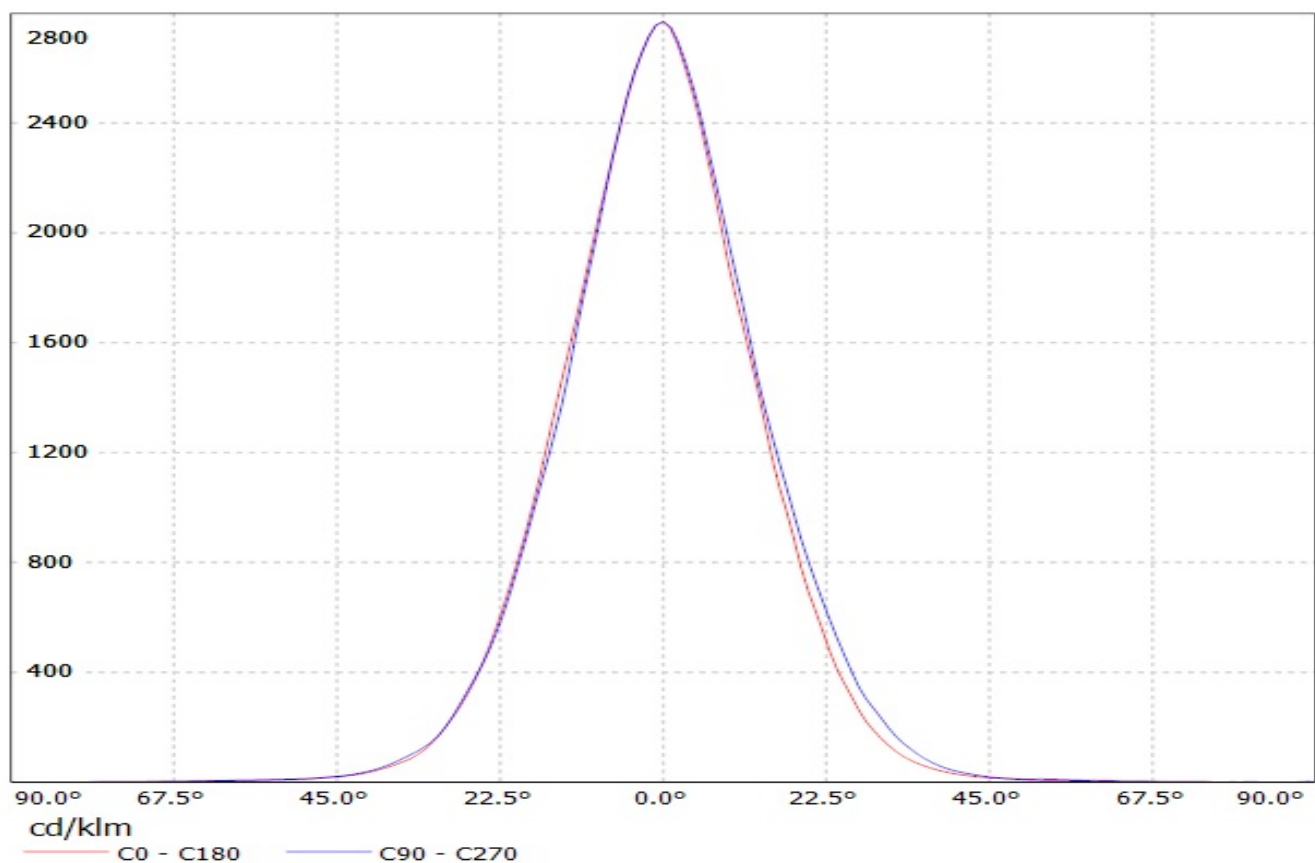
Luminaire: Ledil Oy FA11212_TINA-RS_(Luxeon_Z_ES) Efficiency=89%
Lamps: 1 x Luxeon Z ES (LXZ2-3090) 51.1lm @ 250mA CCT=3000K P=0.7W I=250mA



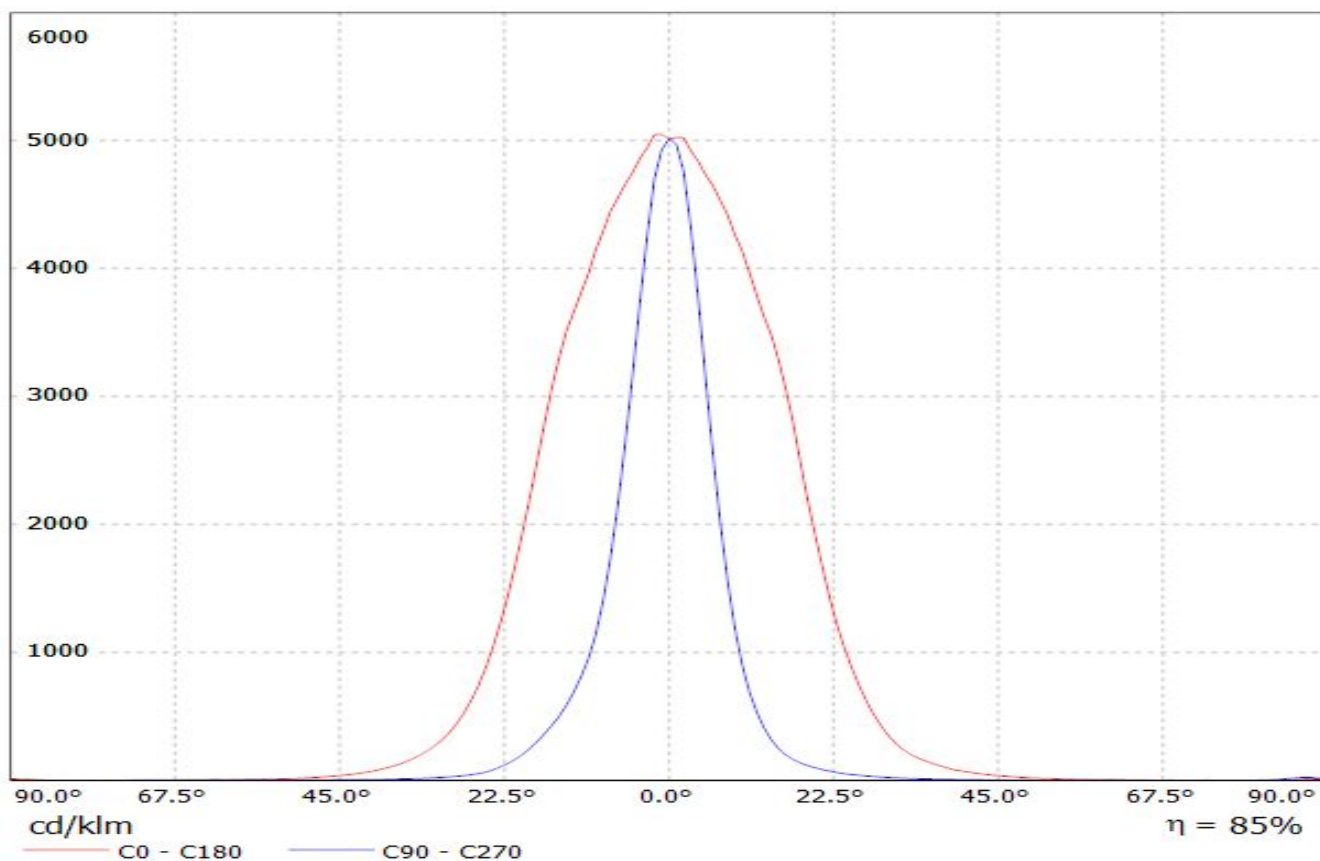
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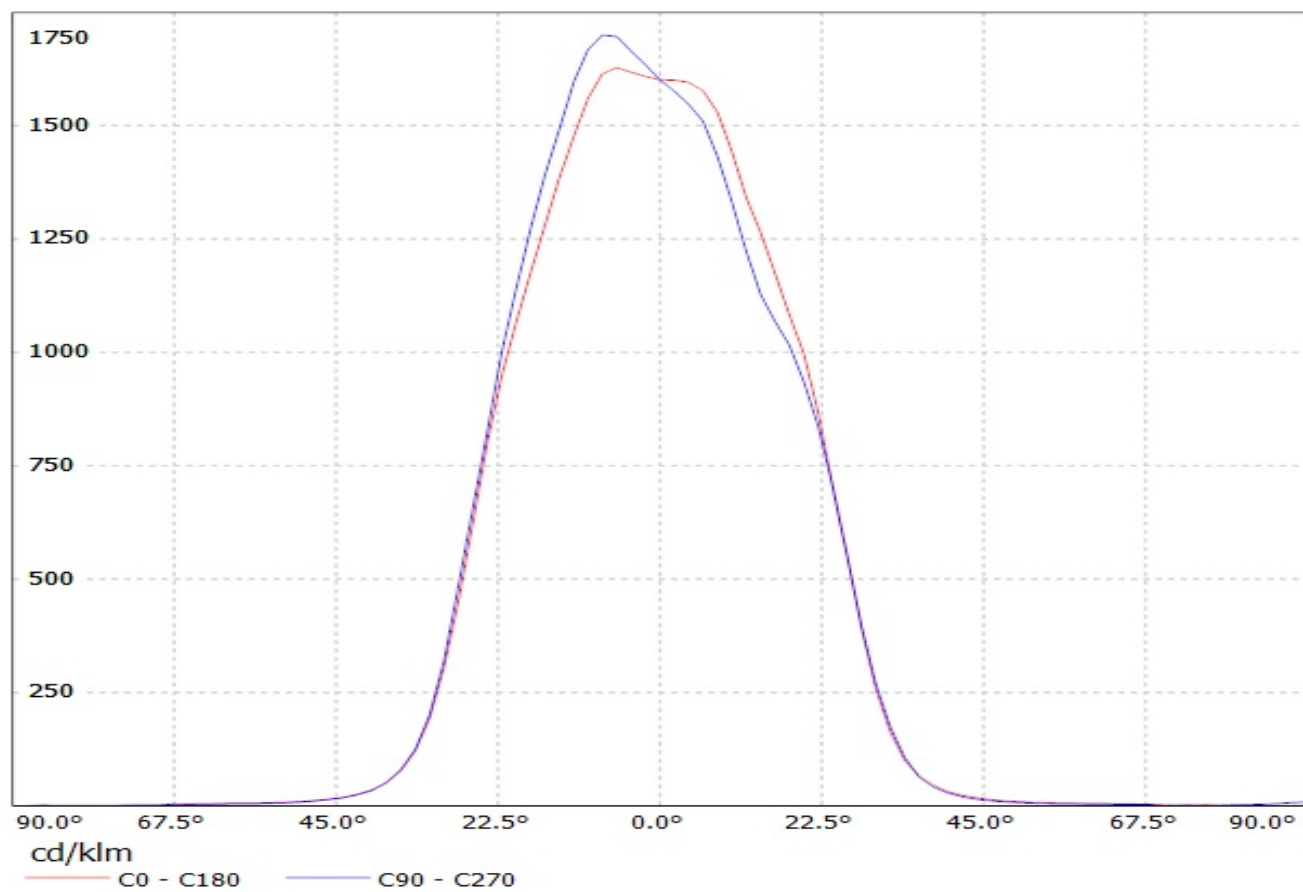
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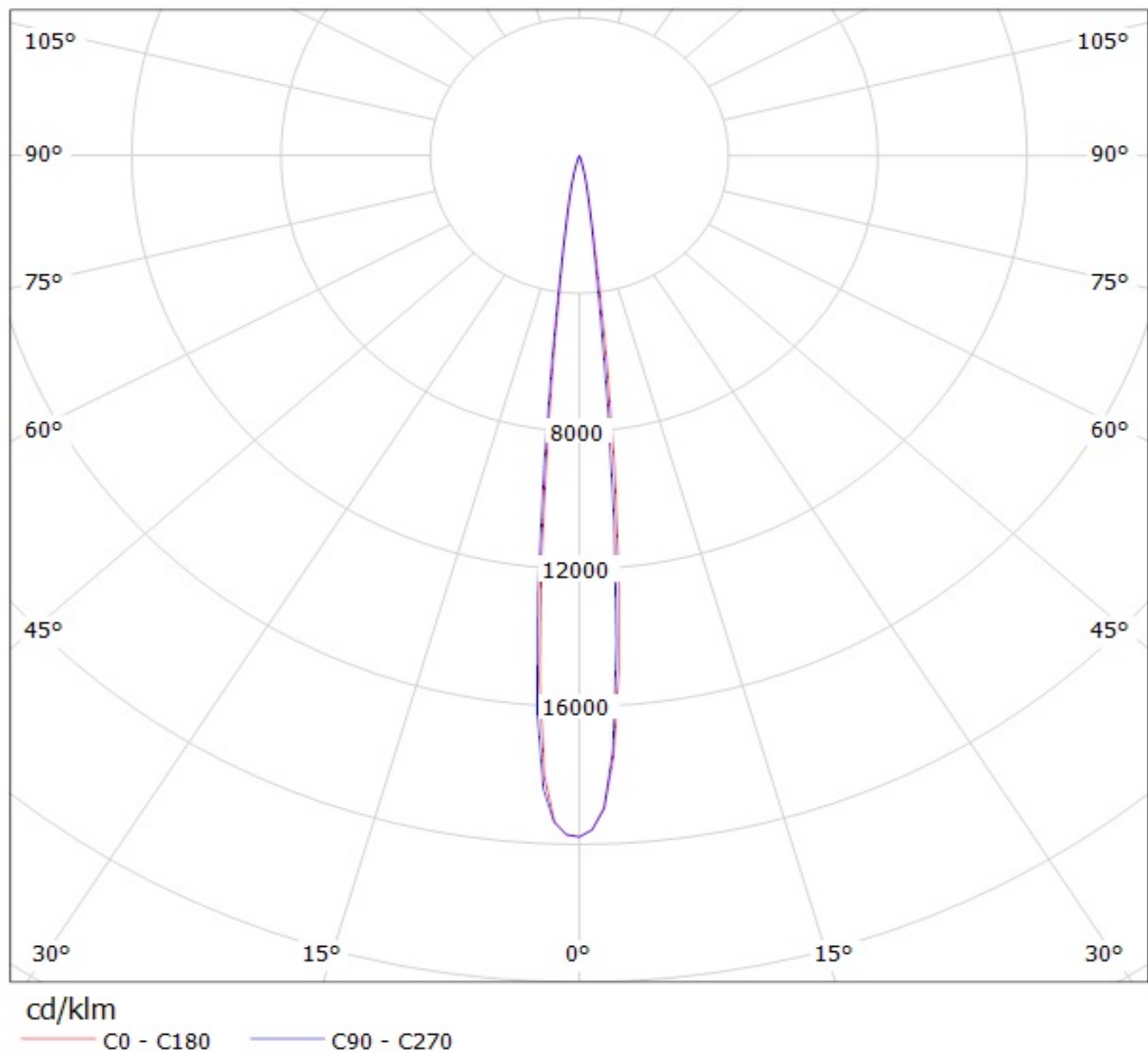
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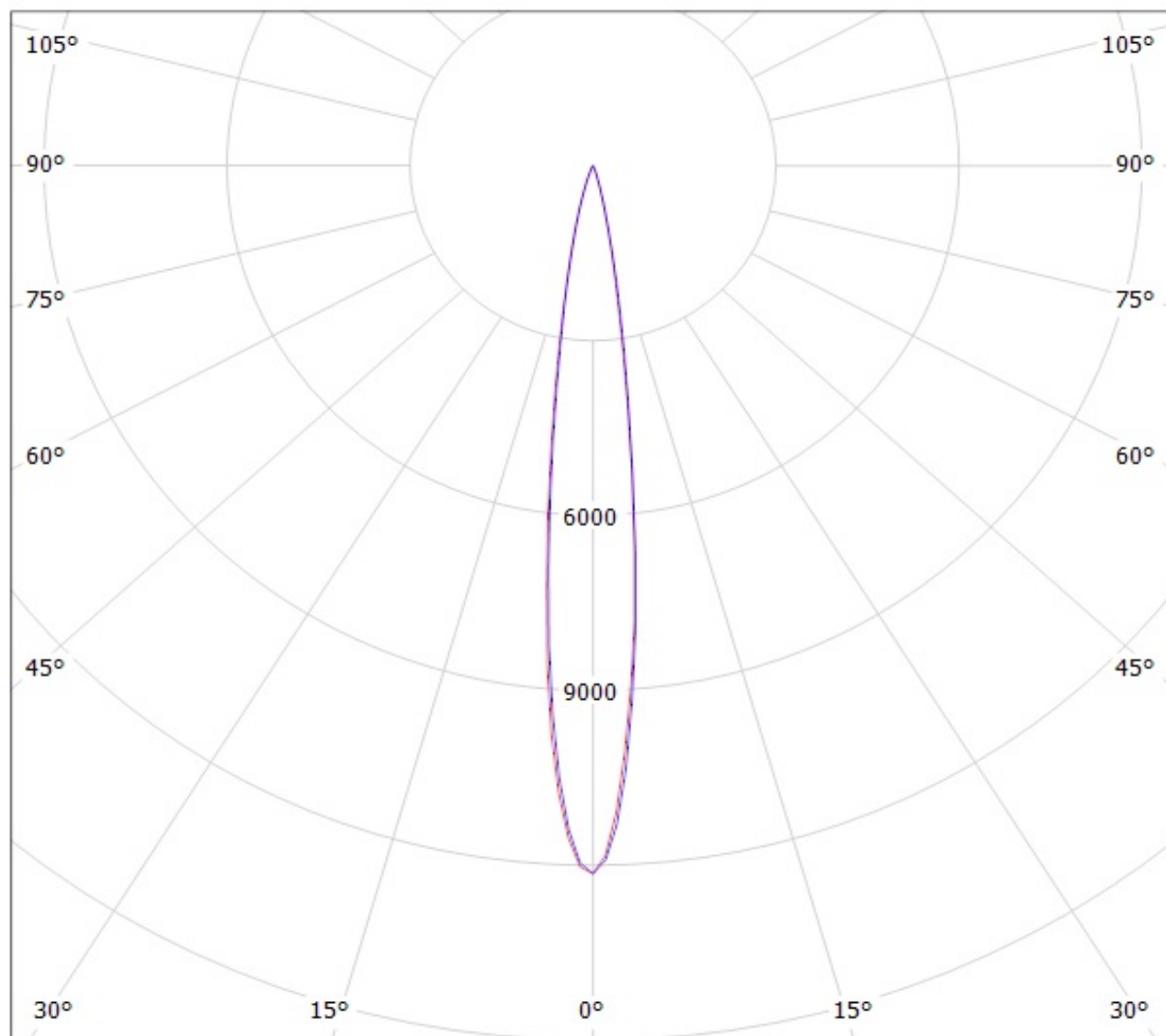
Luminaire: Ledil Oy FA11211_TINA-W_(Luxeon_Z_ES) Efficiency=90
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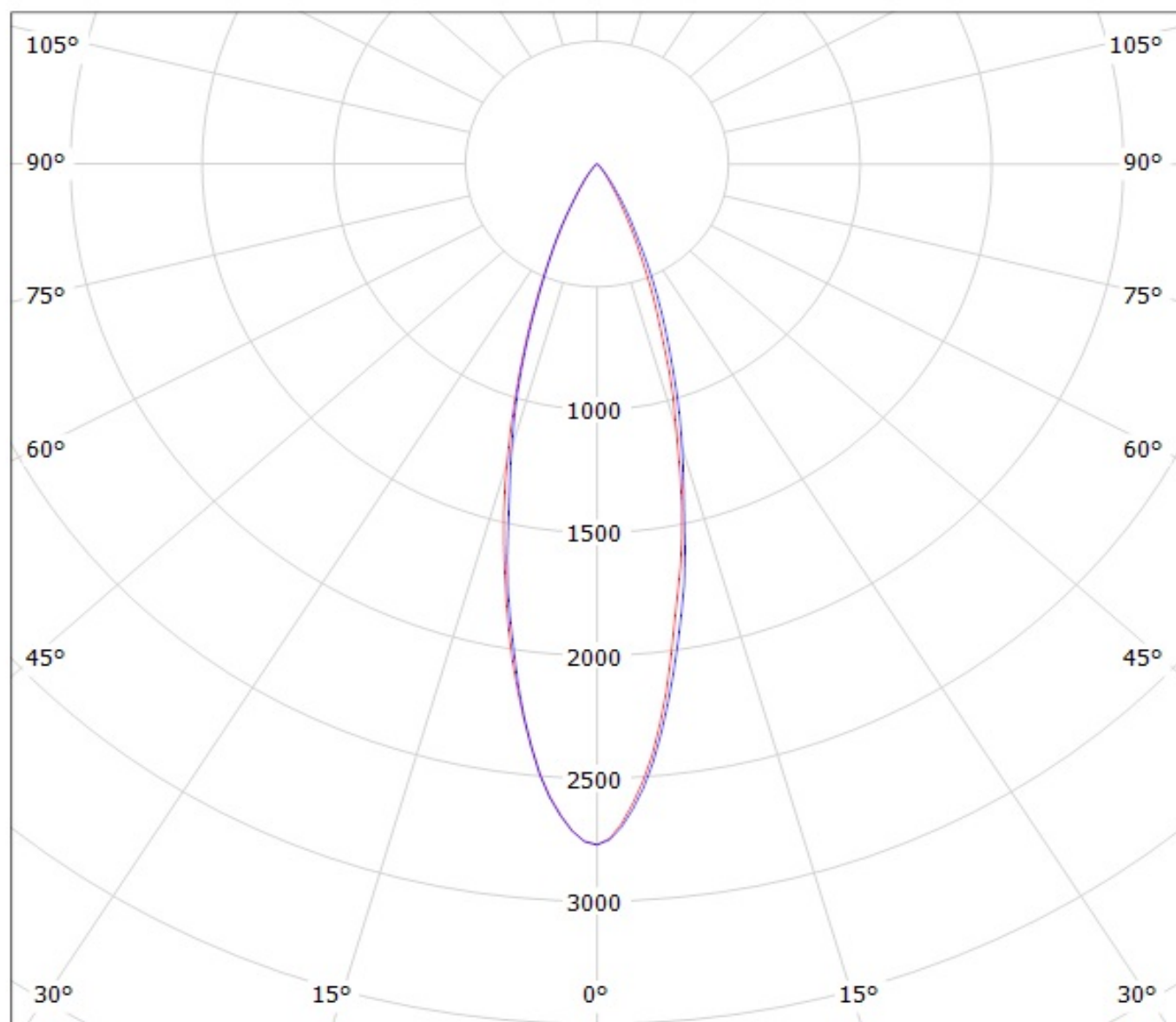
cd/klm

— C0 - C180

— C90 - C270

Luminaire: Ledil Oy FA11210_TINA-M_(Luxeon_Z_ES) Efficiency=84%

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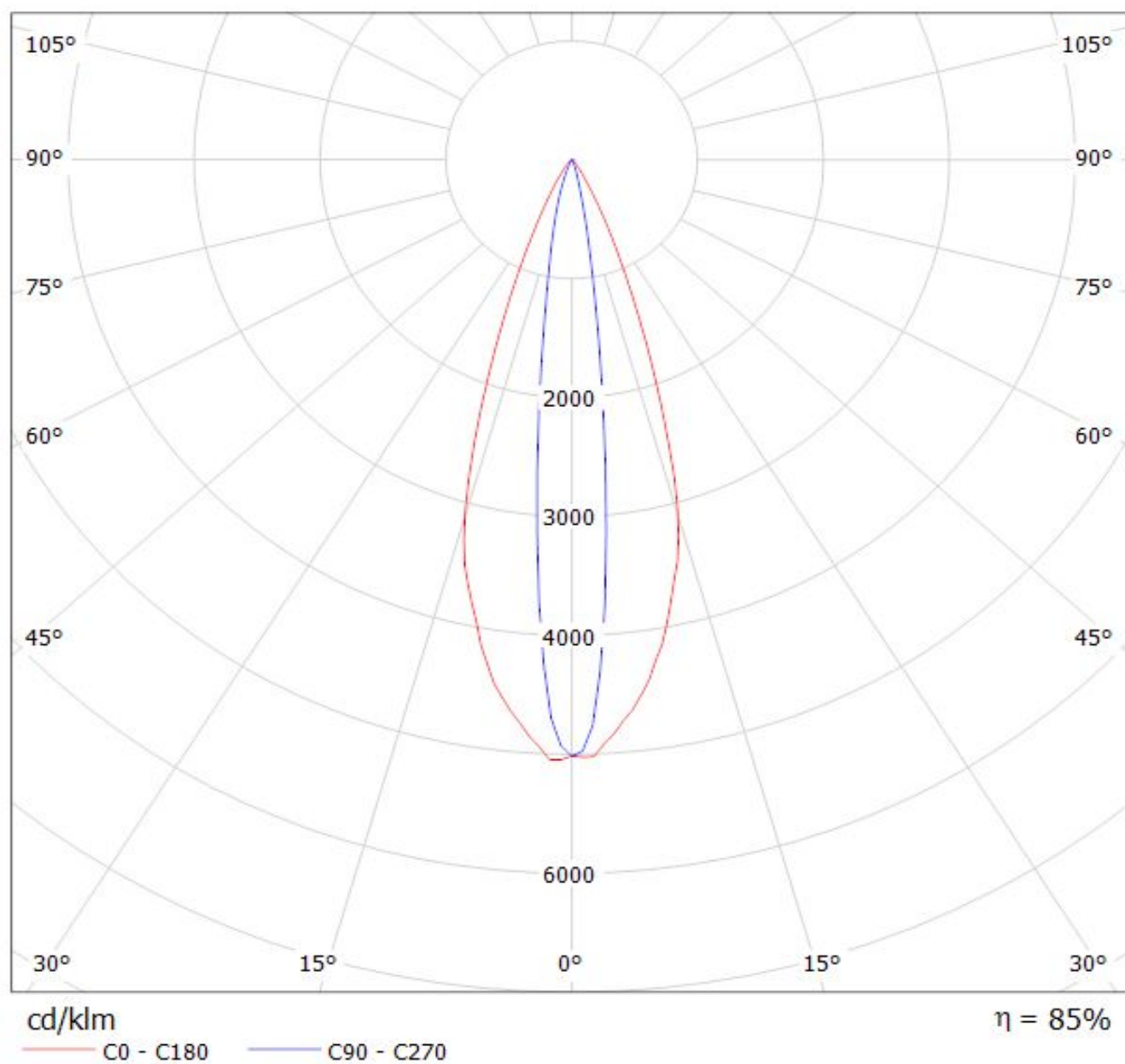
cd/klm

— C0 - C180

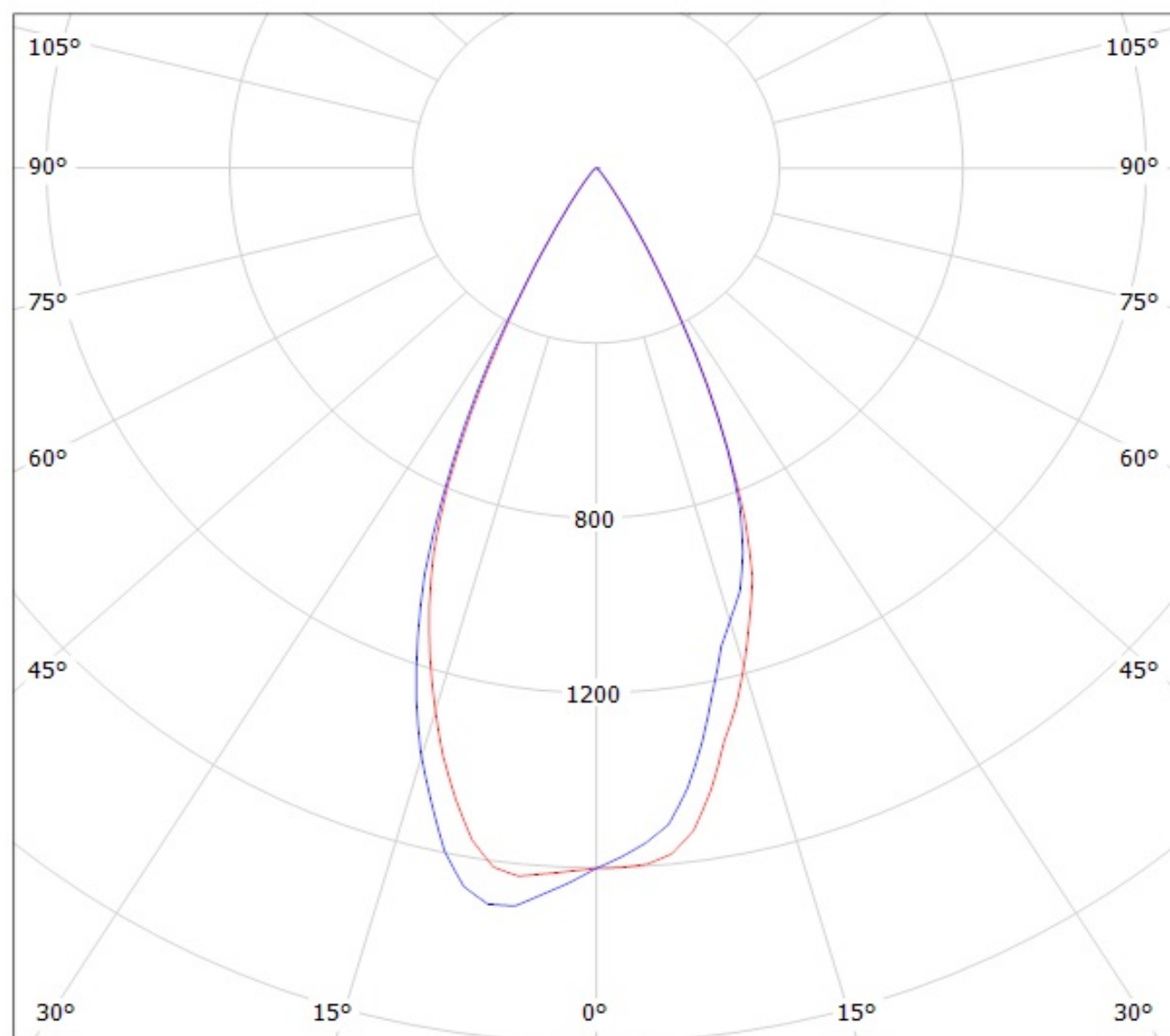
— C90 - C270

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cd/klm

— C0 - C180

— C90 - C270