

Ordering number CA13269_LAURA-SS-WAS

Family	Laura	FWHM	Asymmetric degrees
Type	Assembly	Efficiency	92 %
LED	XP-E	cd/Im	11.600
Color	White	Gerber File	Available
Diameter	21.6x21.6 mm		
Height	13.1 mm		
Style	Square		
Optic Material	PMMA		
Holder Material	PC		
Fastening	Tape		
Status	Ready		

Ordering number CA13271_LAURA-O-WAS

Family	Laura	FWHM	Asym degrees
Type	Assembly	Efficiency	84 %
LED	XP-E	cd/Im	3.000
Color	White	Gerber File	Available
Diameter	21.6x21.6 mm		
Height	13.1 mm		
Style	Square		
Optic Material	PMMA		
Holder Material	PC		
Fastening	Tape		
Status	Ready		

Ordering number CA13307_LAURA-O-WAS-PIN

Family	Laura	FWHM	Asym degrees
Type	Assembly	Efficiency	84 %
LED	XP-E	cd/Im	3.000
Color	White	Gerber File	Available
Diameter	21.6x21.6 mm		
Height	13.1 mm		
Style	Square		
Optic Material	PMMA		
Holder Material	PC		
Fastening	Pin, tape		
Status	Ready		

Ordering number CP13308_LAURA-O-WAS-PG

Family	Laura	FWHM	Asym degrees
Type	Assembly	Efficiency	84 %
LED	XP-E	cd/Im	3.000
Color	White	Gerber File	Available
Diameter	21.6x21.6 mm		
Height	12.9 mm		
Style	Square		
Optic Material	PMMA		
Holder Material	PC		
Fastening	Pin, glue		
Status	Ready		

**Ordering number CP13311_LAURA-SS-WAS-PG**

Family	Laura	FWHM	Asym degrees
Type	Assembly	Efficiency	92 %
LED	XP-E	cd/Im	11.600
Color	White	Gerber File	Available
Diameter	21.6x21.6 mm		
Height	12.9 mm		
Style	Square		
Optic Material	PMMA		
Holder Material	PC		
Fastening	Pin, glue		
Status	Ready		

**Ordering number CA13312_LAURA-SS-WAS-PIN**

Family	Laura	FWHM	Asym degrees
Type	Assembly	Efficiency	92 %
LED	XP-E	cd/Im	11.600
Color	White	Gerber File	Available
Diameter	21.6x21.6 mm		
Height	13.1 mm		
Style	Square		
Optic Material	PMMA		
Holder Material	PC		
Fastening	Pin, tape		
Status	Ready		

**Ordering number CA11353_LAURA-RS**

Family	Laura	FWHM	8 degrees
Type	Assembly	Efficiency	93 %
LED	XP-E	cd/Im	41.800
Color	Black	Gerber File	Available
Diameter	21.6 mm		
Height	13.1 mm		
Style	Square		
Optic Material	PMMA		
Holder Material	PC		
Fastening	Tape		
Status	Ready		

**Ordering number CA11959_LAURA-RS-PIN**

Family	Laura	FWHM	8 degrees
Type	Assembly	Efficiency	93 %
LED	XP-E	cd/Im	33.200
Color	White	Gerber File	Available
Diameter	21.6 x 21.6 mm		
Height	13.1 mm		
Style	Square		
Optic Material	PMMA		
Holder Material	PC		
Fastening	Pin, tape		
Status	Ready		

**Ordering number CA11643_LAURA-SS**

Family	Laura	FWHM	11 degrees
Type	Assembly	Efficiency	93 %
LED	XP-E	cd/Im	16.500
Color	Black	Gerber File	Available
Diameter	21.6 mm		
Height	13.1 mm		
Style	Square		
Optic Material	PMMA		
Holder Material	PC		
Fastening	Tape		
Status	Ready		

**Ordering number CA12011_LAURA-SS-PIN**

Family	Laura	FWHM	11 degrees
Type	Assembly	Efficiency	93 %
LED	XP-E	cd/Im	16.500
Color	White	Gerber File	Available
Diameter	21.6 + 21.6 mm		
Height	13.1 mm		
Style	Square		
Optic Material	PMMA		
Holder Material	PC		
Fastening	Pin, tape		
Status	Ready		

**Ordering number CA11360_LAURA-D**

Family	Laura	FWHM	13 degrees
Type	Assembly	Efficiency	93 %
LED	XP-E	cd/Im	9.300
Color	Black	Gerber File	Available
Diameter	21.6 mm		
Height	13.1 mm		
Style	Square		
Optic Material	PMMA		
Holder Material	PC		
Fastening	Tape		
Status	Ready		

**Ordering number CA11365_LAURA-O**

Family	Laura	FWHM	13+40 degrees
Type	Assembly	Efficiency	91 %
LED	XP-E	cd/Im	4.100
Color	Black	Gerber File	Available
Diameter	21.6 mm		
Height	13.1 mm		
Style	Square		
Optic Material	PMMA		
Holder Material	PC		
Fastening	Tape		
Status	Ready		

**Ordering number CA11960_LAURA-D-PIN**

Family	Laura	FWHM	13 degrees
Type	Assembly	Efficiency	93 %
LED	XP-E	cd/Im	9.300
Color	White	Gerber File	Available
Diameter	21.6 + 21.6 mm		
Height	13.1 mm		
Style	Square		
Optic Material	PMMA		
Holder Material	PC		
Fastening	Pin, tape		
Status	Ready		

**Ordering number CA11355_LAURA-M**

Family	Laura	FWHM	30 degrees
Type	Assembly	Efficiency	93 %
LED	XP-E	cd/Im	2.260
Color	Black	Gerber File	Available
Diameter	21.6 mm		
Height	13.1 mm		
Style	Square		
Optic Material	PMMA		
Holder Material	PC		
Fastening	Tape		
Status	Ready		

**Ordering number CA11837_LAURA-M-PIN**

Family	Laura	FWHM	30 degrees
Type	Assembly	Efficiency	92 %
LED	XP-E	cd/Im	2.600
Color	White	Gerber File	Available
Diameter	21.6 mm		
Height	13.1 mm		
Style	Square		
Optic Material	PMMA		
Holder Material	PC		
Fastening	Pin, tape		
Status	Ready		

**Ordering number CA12012_LAURA-O-PIN**

Family	Laura	FWHM	40+13 degrees
Type	Assembly	Efficiency	91 %
LED	XP-E	cd/Im	4.800
Color	White	Gerber File	Available
Diameter	21.6 + 21.6 mm		
Height	13.1 mm		
Style	Square		
Optic Material	PMMA		
Holder Material	PC		
Fastening	Pin, tape		
Status	Ready		

**Ordering number CA12344_LAURA-W-PIN**

Family	Laura	FWHM	47 degrees
Type	Assembly	Efficiency	92 %
LED	XP-E	cd/Im	1.700
Color	White	Gerber File	Available
Diameter	21.6 + 21.6 mm		
Height	13.1 mm		
Style	Square		
Optic Material	PMMA		
Holder Material	PC		
Fastening	Pin, tape		
Status	Ready		

**Ordering number CA11766_LAURA-WW**

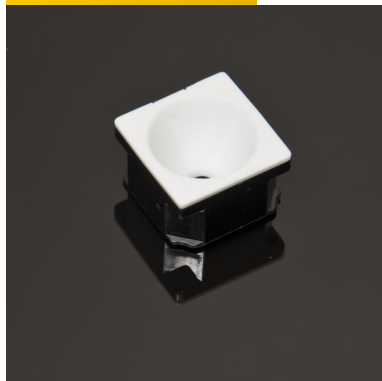
Family	Laura	FWHM	66 degrees
Type	Assembly	Efficiency	86 %
LED	XP-E	cd/Im	0.700
Color	Black	Gerber File	Available
Diameter	21.6 mm		
Height	13.1 mm		
Style	Square		
Optic Material	PMMA		
Holder Material	PC		
Fastening	Tape		
Status	Ready		

**Ordering number CA12325_LAURA-WW-PIN**

Family	Laura	FWHM	66 degrees
Type	Assembly	Efficiency	86 %
LED	XP-E	cd/Im	0.700
Color	White	Gerber File	Available
Diameter	21.6 mm		
Height	13.1 mm		
Style	Square		
Optic Material	PMMA		
Holder Material	PC		
Fastening	Pin, tape		
Status	Ready		

**Ordering number CA11525_LAURA-R-W**

Family	Laura	FWHM	71 degrees
Type	Assembly	Efficiency	70 %
LED	XP-E	cd/Im	0.520
Color	Black	Gerber File	Available
Diameter	21.6 mm		
Height	13.1 mm		
Style	Square		
Optic Material	PC		
Holder Material	PC		
Fastening	Tape		
Status	Ready		

**Ordering number CA12981_LAURA-R-XW**

Family	Laura	FWHM	72 degrees
Type	Assembly	Efficiency	86 %
LED	XP-E	cd/Im	0.600
Color	Black	Gerber File	Available
Diameter	21.6 x 21.6 mm		
Height	13.1 mm		
Style	Square		
Optic Material	PC		
Holder Material	PC		
Fastening	Tape		
Status	Ready		

**Ordering number CA12984_LAURA-R-XW-PIN**

Family	Laura	FWHM	72 degrees
Type	Assembly	Efficiency	86 %
LED	XP-E	cd/Im	0.600
Color	White	Gerber File	Available
Diameter	21.6 + 21.6 mm		
Height	13.1 mm		
Style	Square		
Optic Material	PC		
Holder Material	PC		
Fastening	Pin, 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

Laura series

last update 7/1/2013

GENERAL INFORMATION

- Product series especially designed & optimized for XP-E 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>

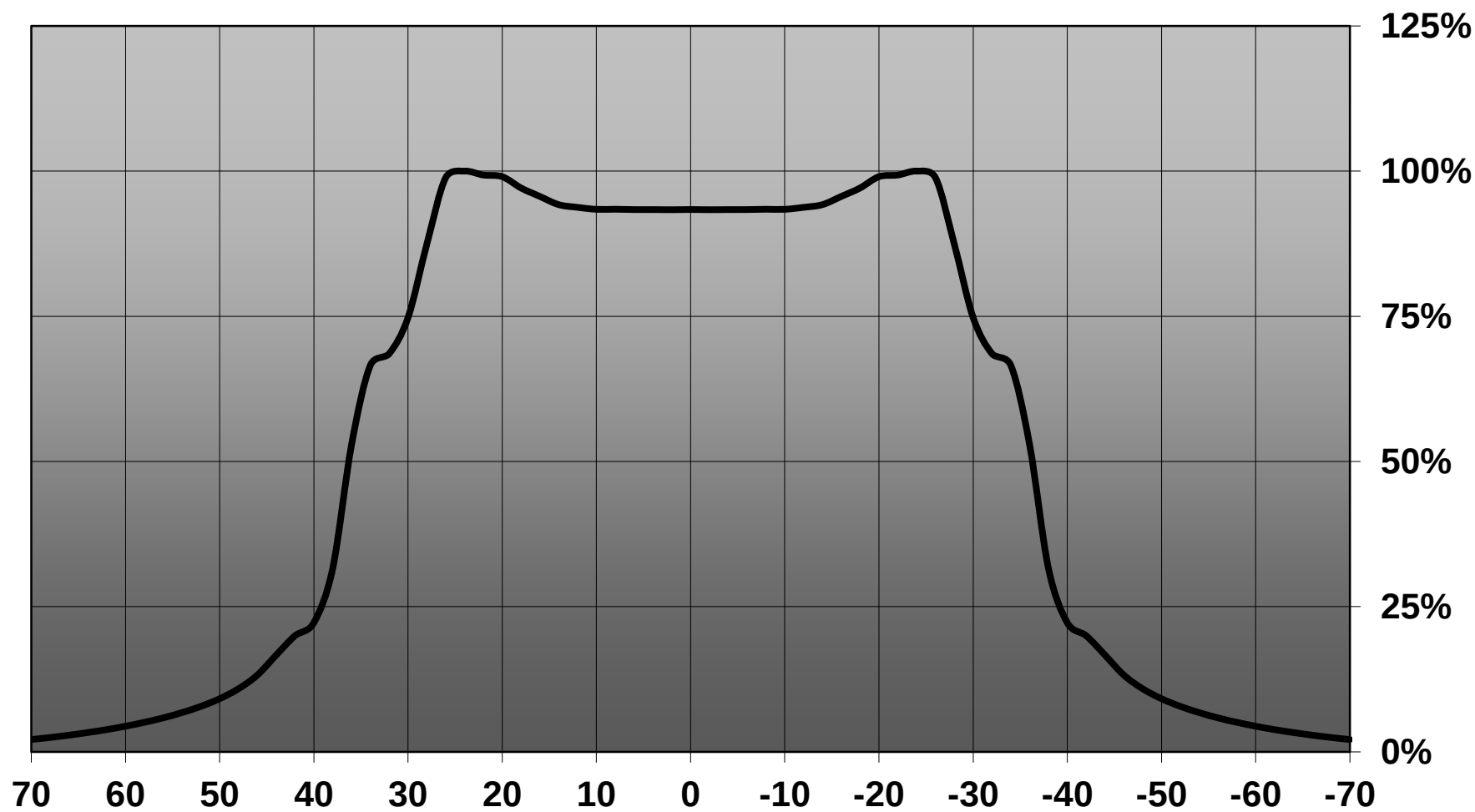
- Lens material optical grade PC with high UV and temperature resistance (120 degrees of Celcius / 248 degrees of Fahrenheit). Allows use of high current and temperature conditions.

Please find more information about used materials from below:

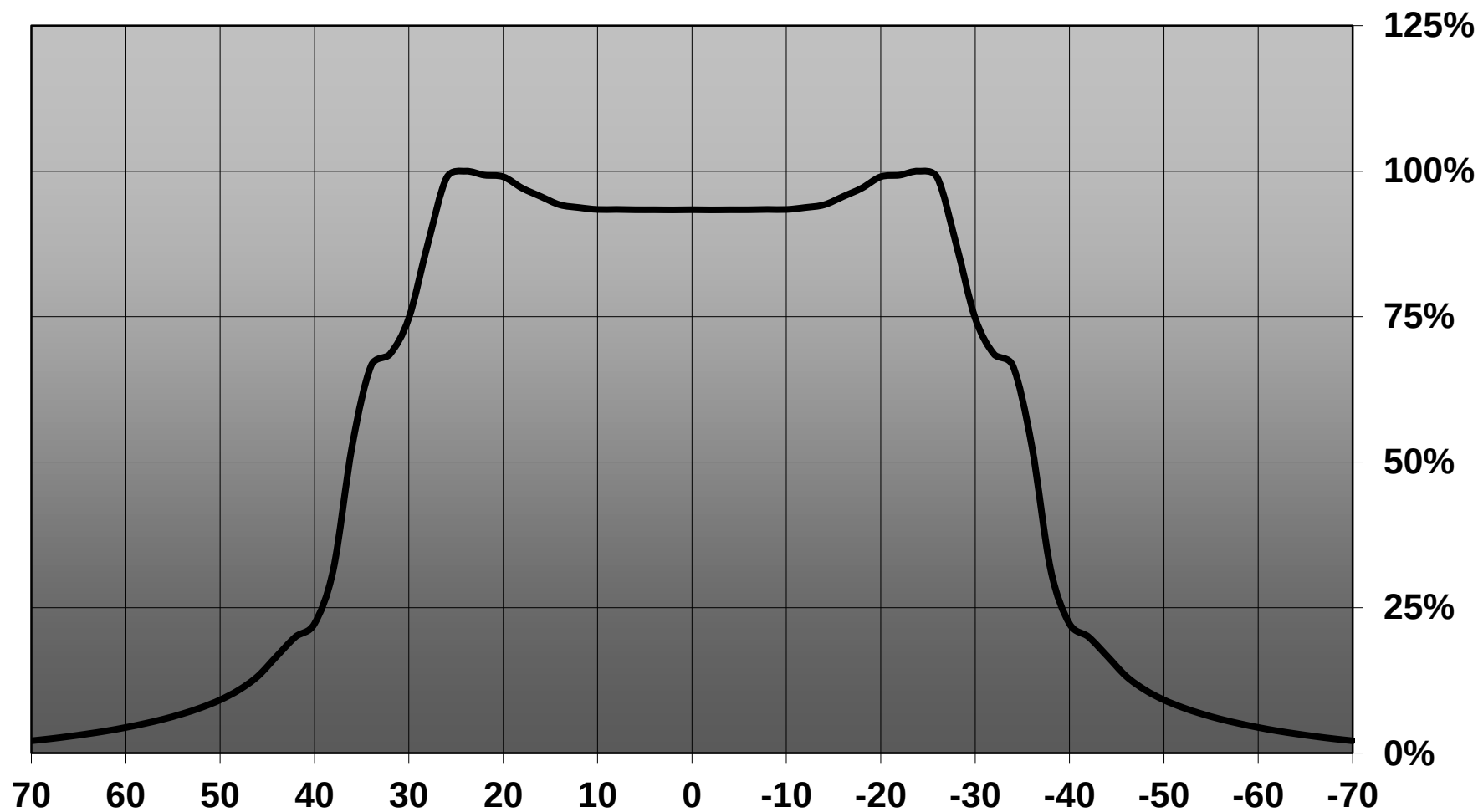
http://ledil.fi/sites/default/files/Documents/Technical/Material/PC%20Makrolon%202400_2407_2456_2458-UL.pdf

- Reflector is made of aluminium coated PC (120 degrees of Celcius / 248 degrees of Fahrenheit) with protective lacquer (110 degrees of Celcius / 230 degrees of Fahrenheit).
- Optic holder molded by high quality PC material (120 dergees of Celcius / 248 degrees of Fahrenheit).

Relative intensity of CA12981_LAURA-REF-XW_(XP-E)



Relative intensity of CA12984_LAURA-REF-XW-PIN
(XP-E)



4

3

2

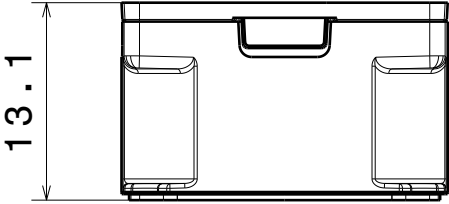
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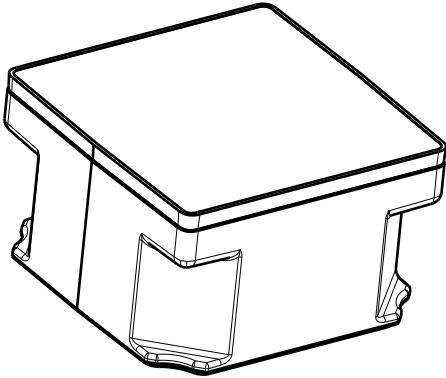
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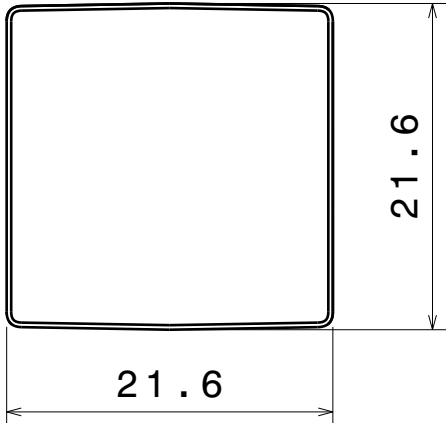


Front View

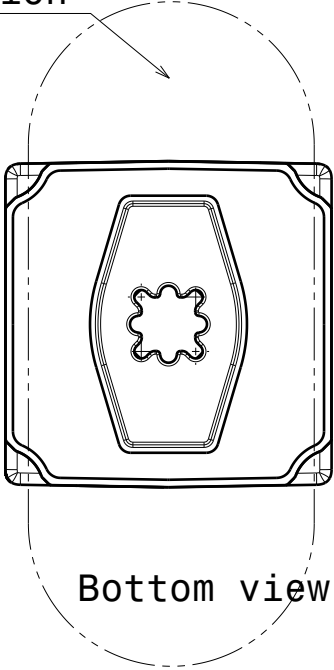


Isometric view

Oval Beam Direction



Top view



Bottom view

4

3

2

1

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LEDiL

Ledil Oy
Salorankatu 10
FIN 24240 SALO
Finland

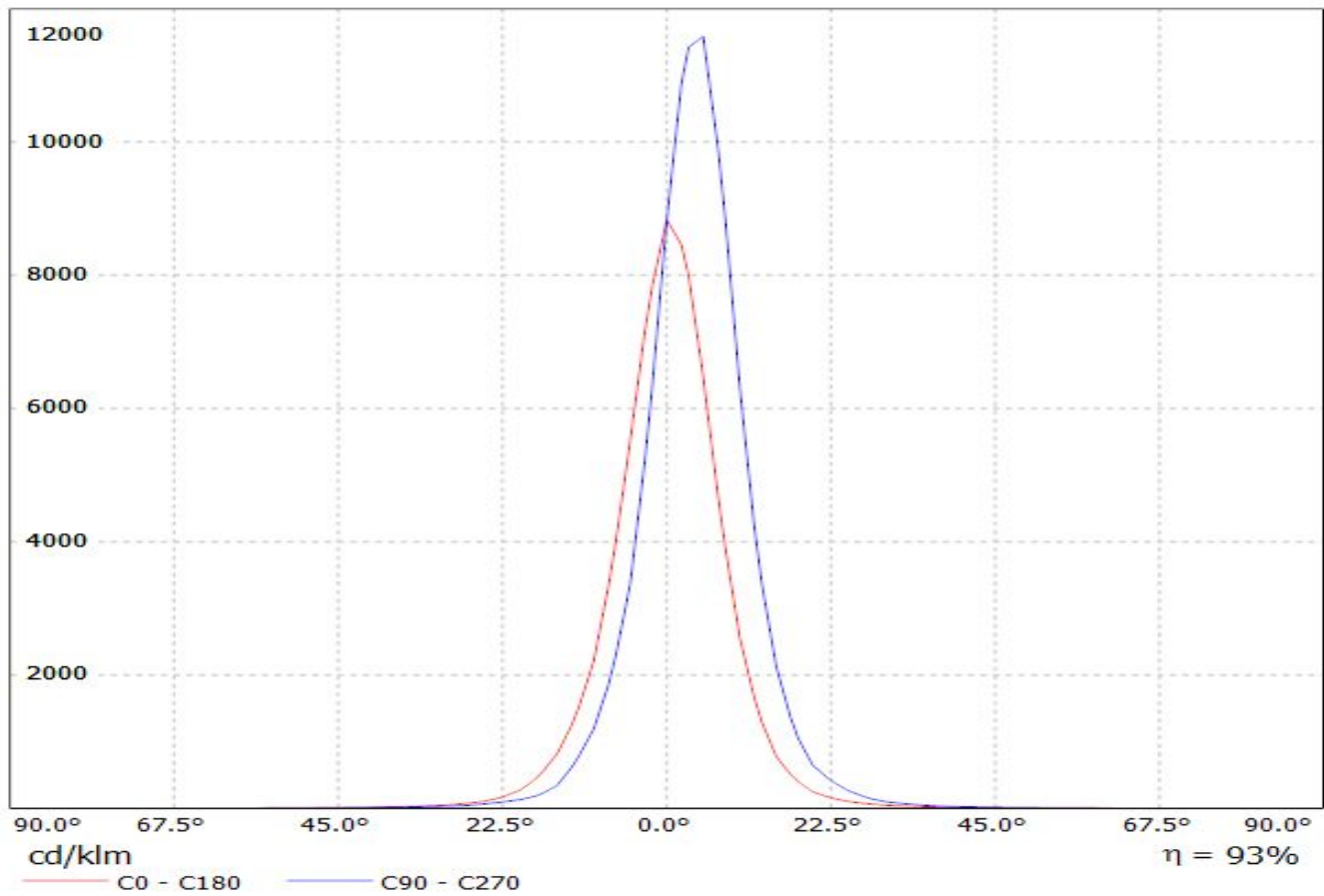
DRAWN BY	DATE
ks	08.11.2012
CHECKED BY	DATE
as	-
DESIGNED BY	DATE
-	-

DRAWING TITLE		Mechanical Drawing			
LAURA-XP					
SIZE	PART NUMBER				REV
A4					001
SCALE	2:1	WEIGHT			SHEET 1/1

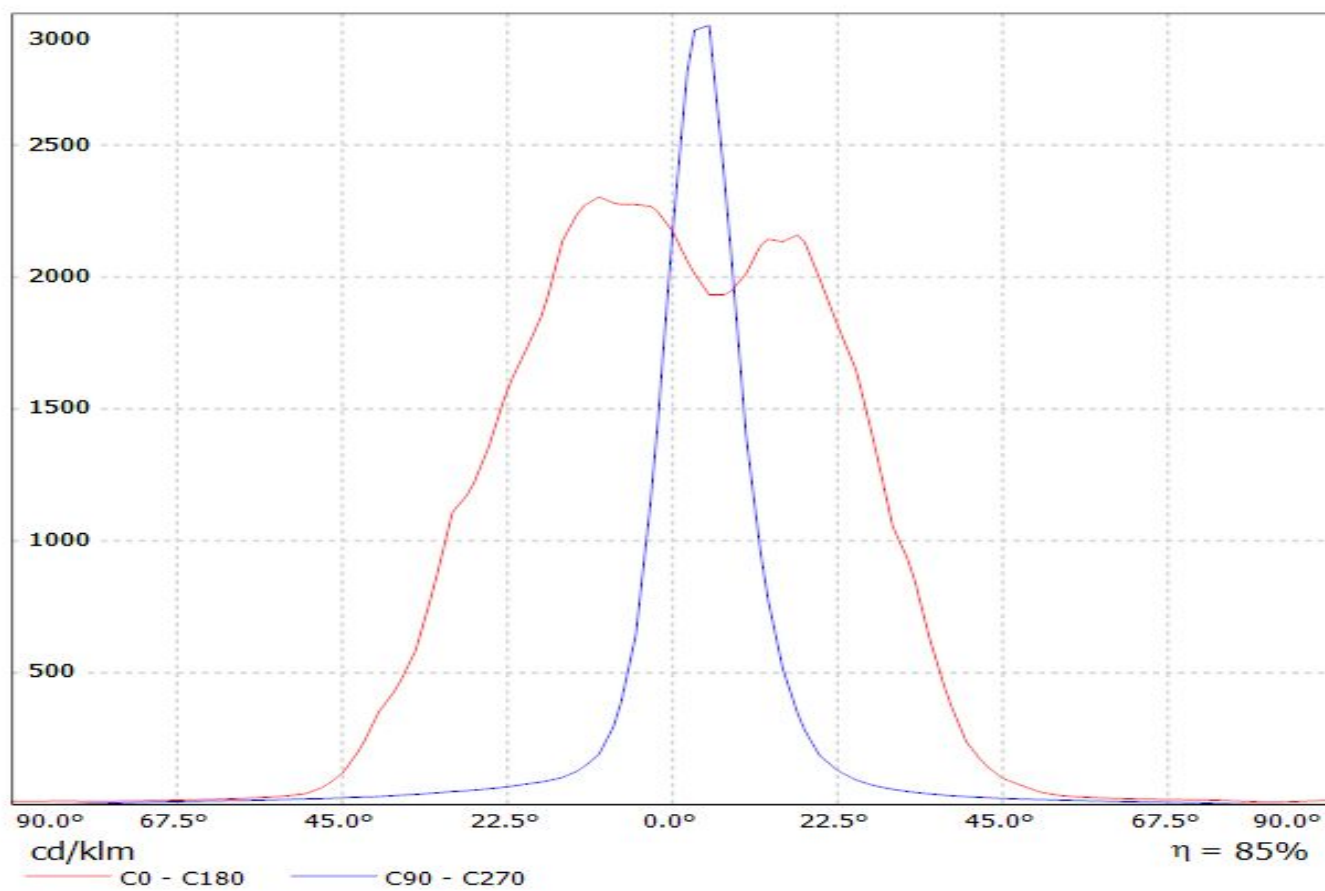
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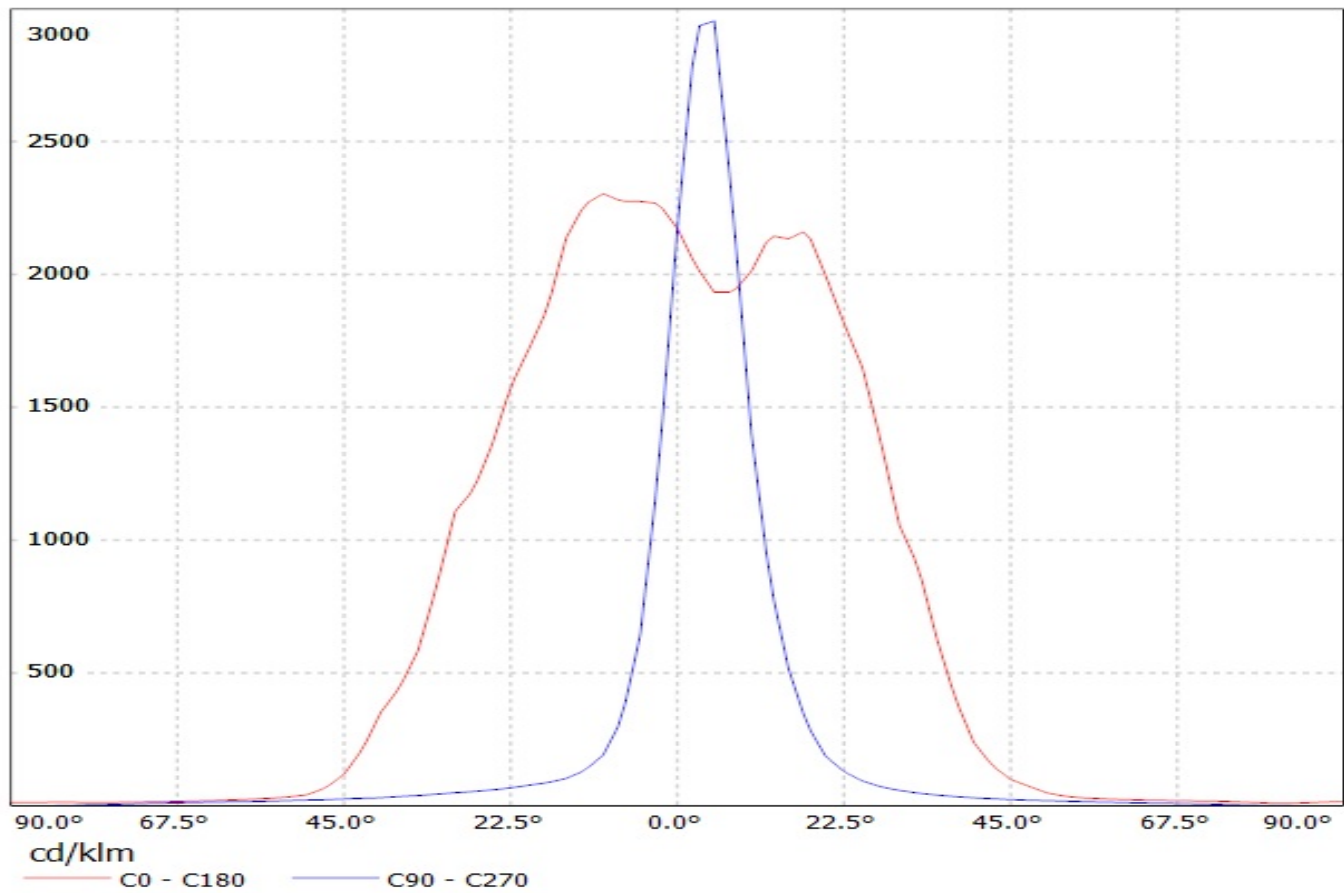
Luminaire: Ledi Oy CA13269_LAURA-SS-WAS_(XP-E) Efficiency=92%
Lamps: 1 x Cree XP-E 70lm @ 250mA



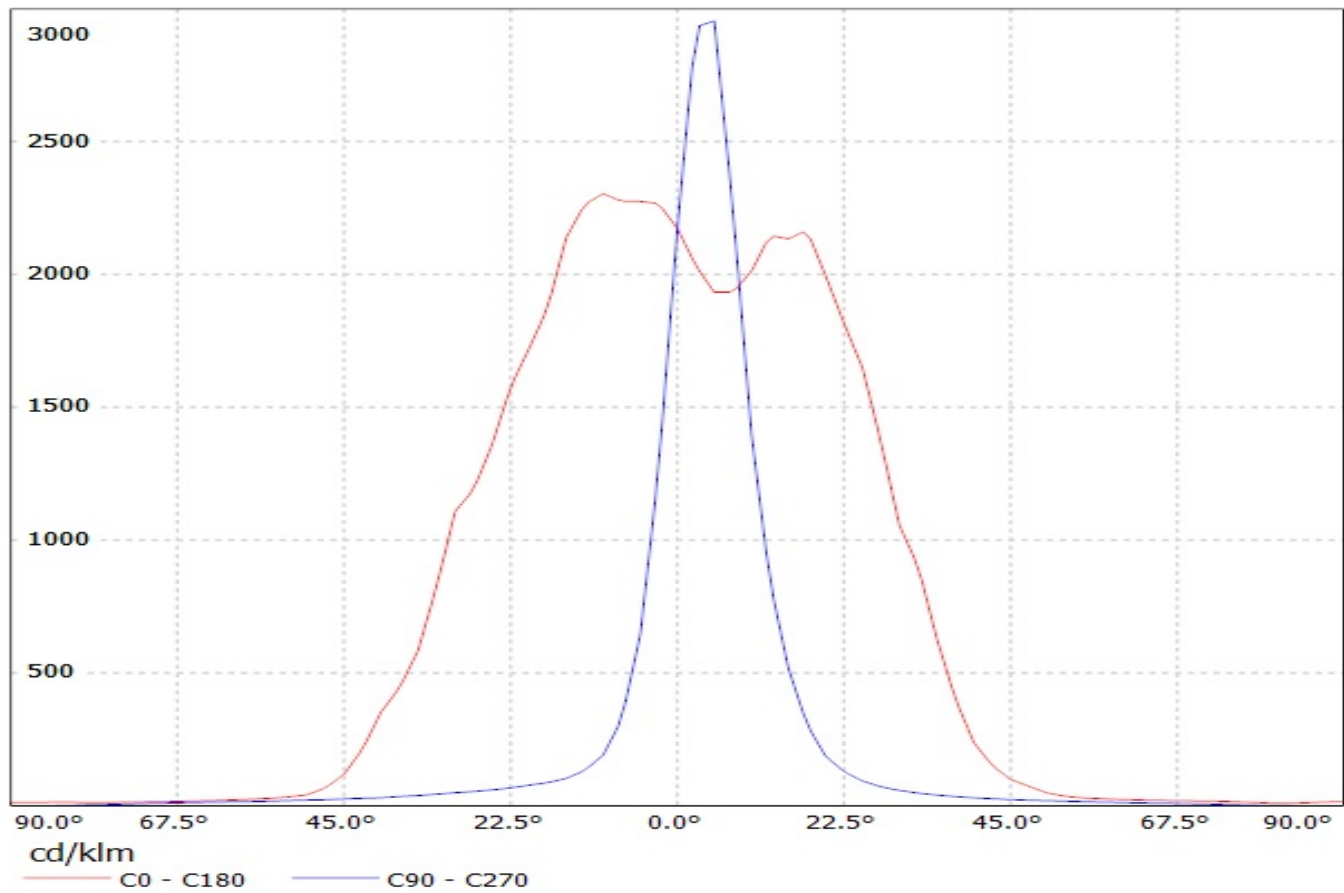
Luminaire: Ledil Oy CA13271_LAURA-O-WAS_(XP-E) Efficiency=84%
Lamps: 1 x Cree XP-E 70lm @ 250mA



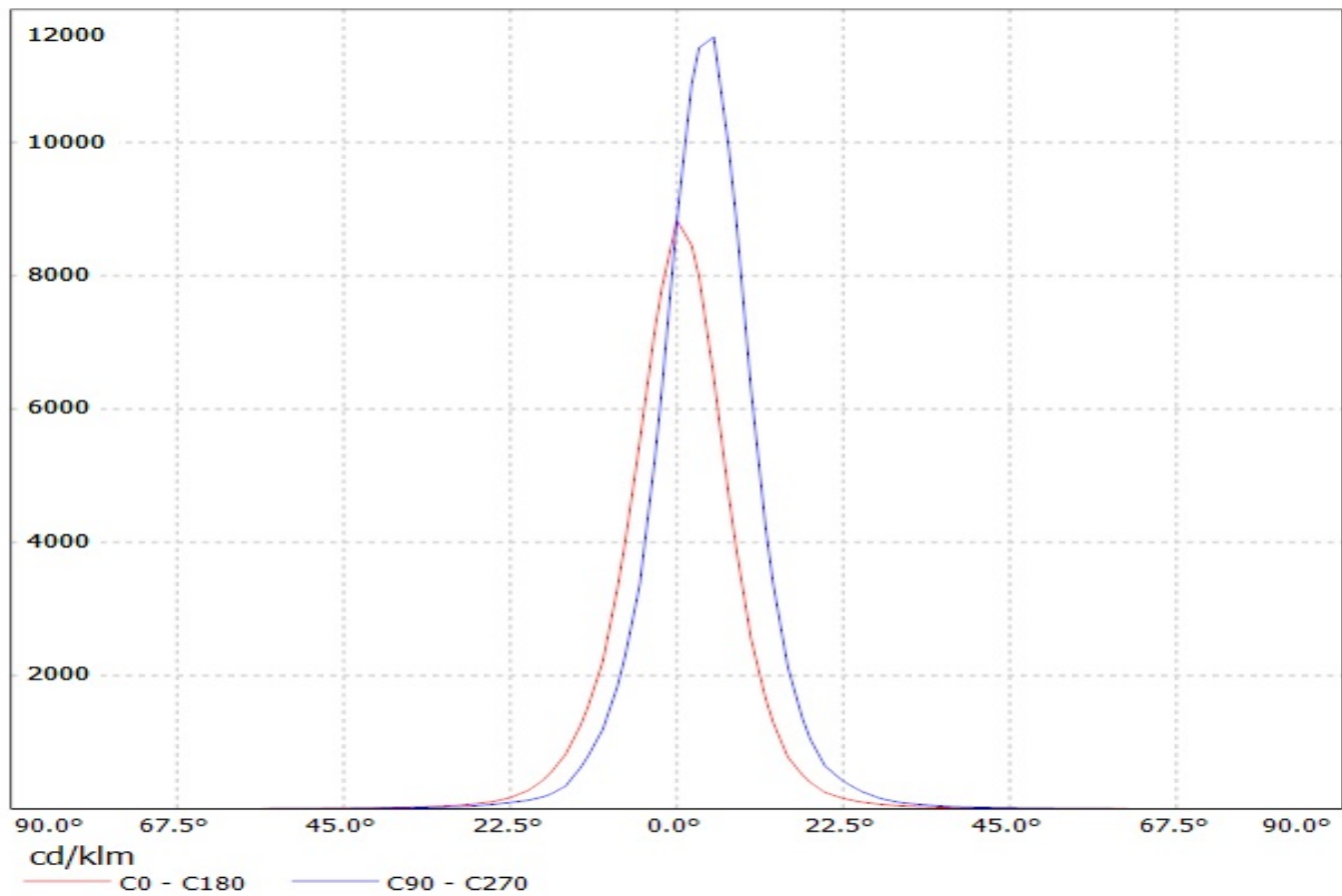
Luminaire: Ledil Oy CP13308&CA13307_LAURA-O-WAS (Cree XP-E 70lm @ 250mA) Efficiency=84%
Lamps: 1 x Cree XP-E 70lm @ 250mA



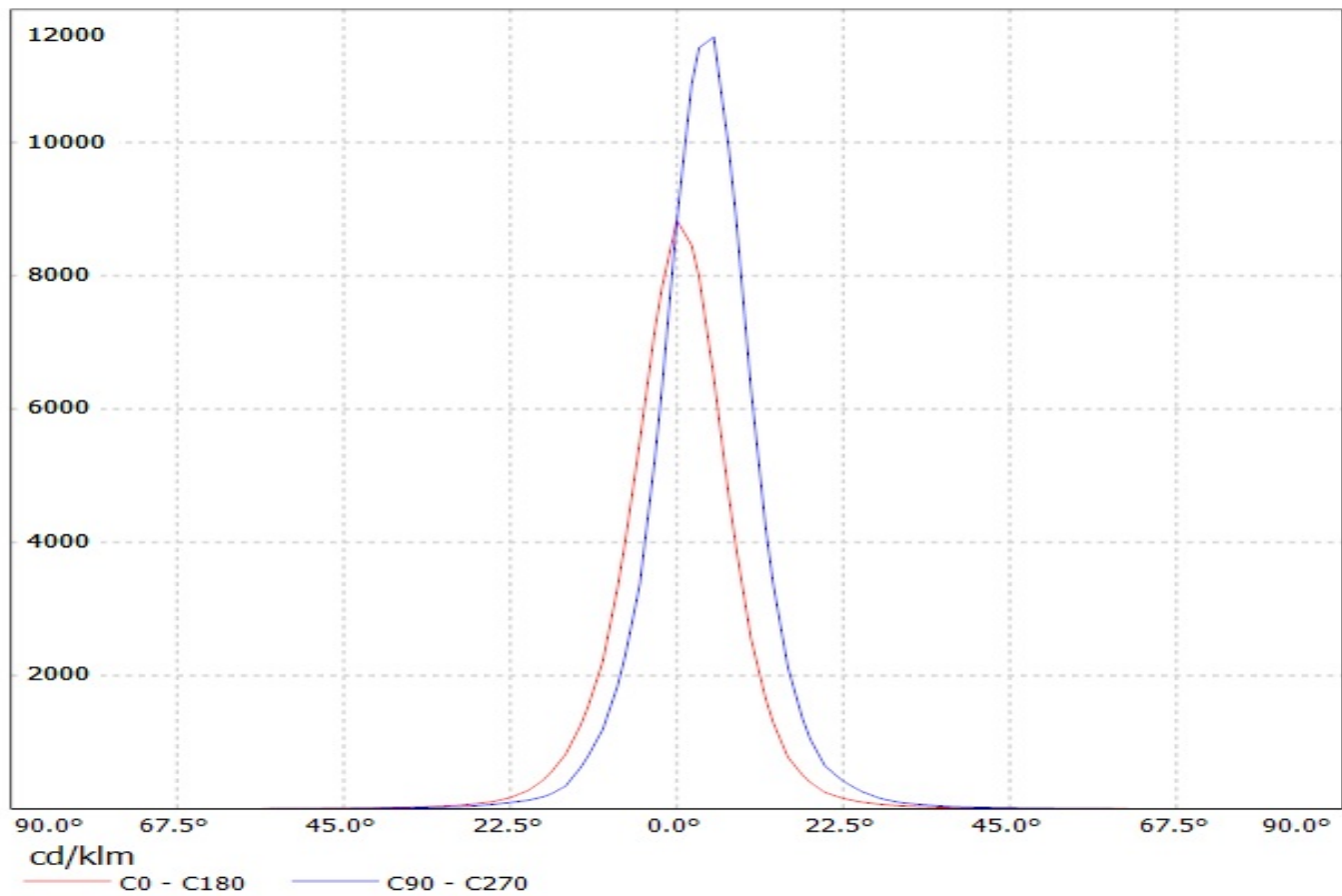
Luminaire: Ledil Oy CP13308&CA13307_LAURA-O-WAS (Cree XP-E 70lm @ 250mA) Efficiency=84%
Lamps: 1 x Cree XP-E 70lm @ 250mA



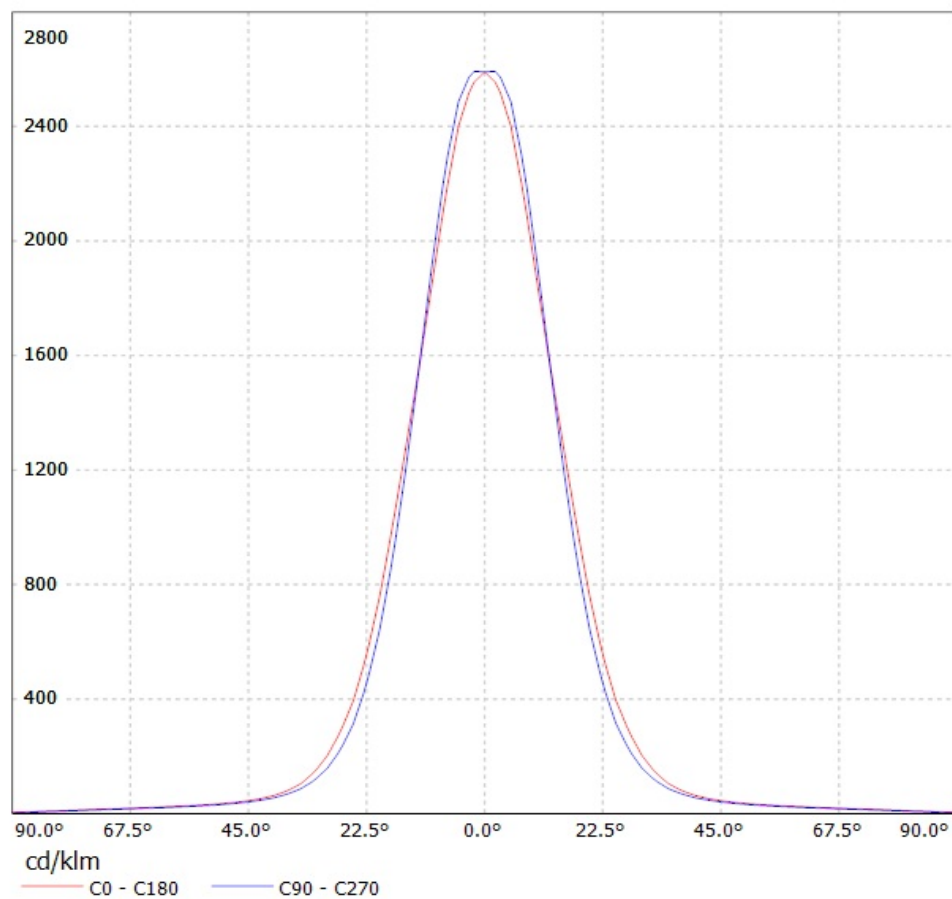
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Lamps: 1 x Cree XP-E 70lm @ 250mA



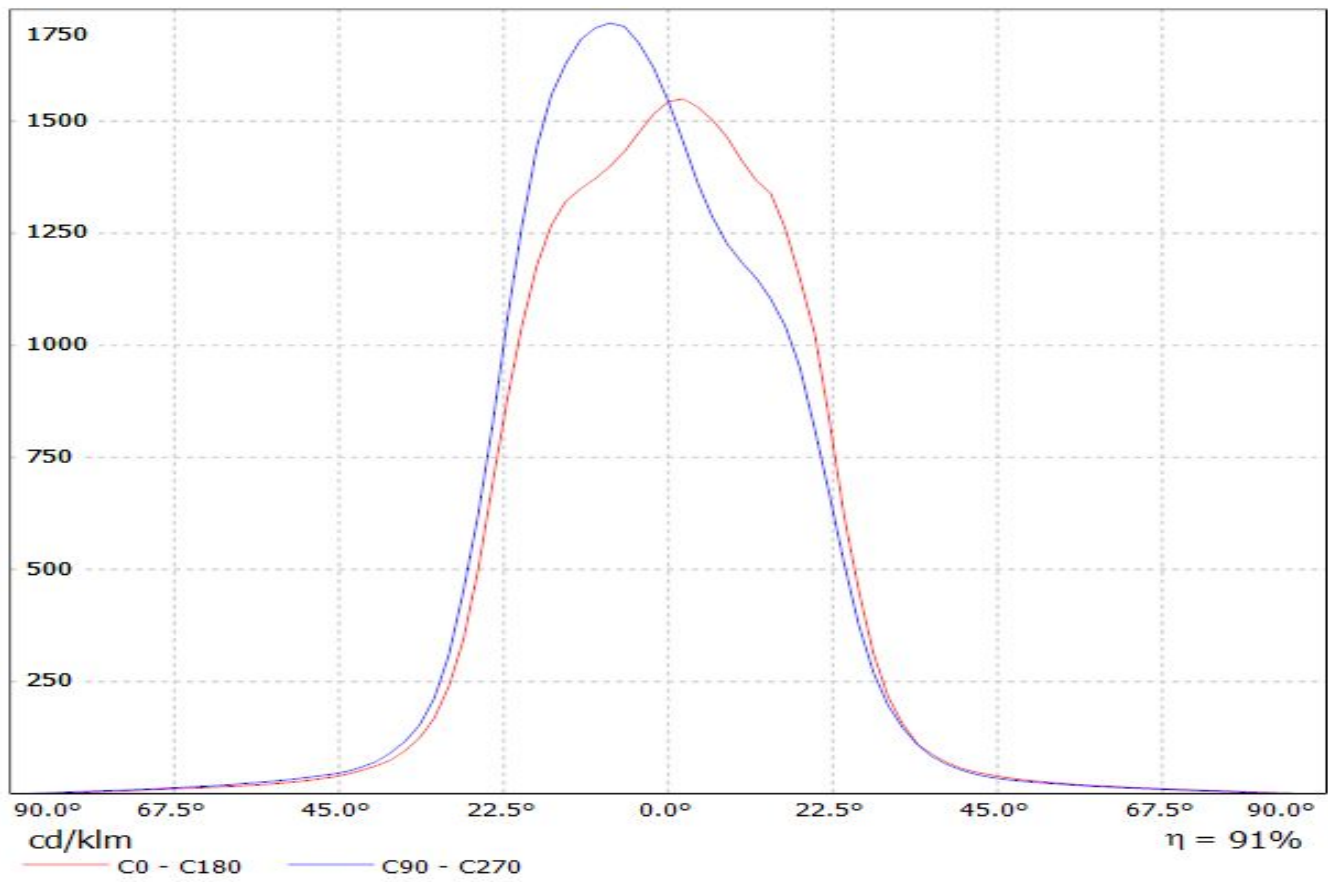
Luminaire: Ledil Oy CP13311&CA13312_LAURA-SS-WAS (Cree XP-E 70lm @ 250mA) Efficiency=92%
Lamps: 1 x Cree XP-E 70lm @ 250mA



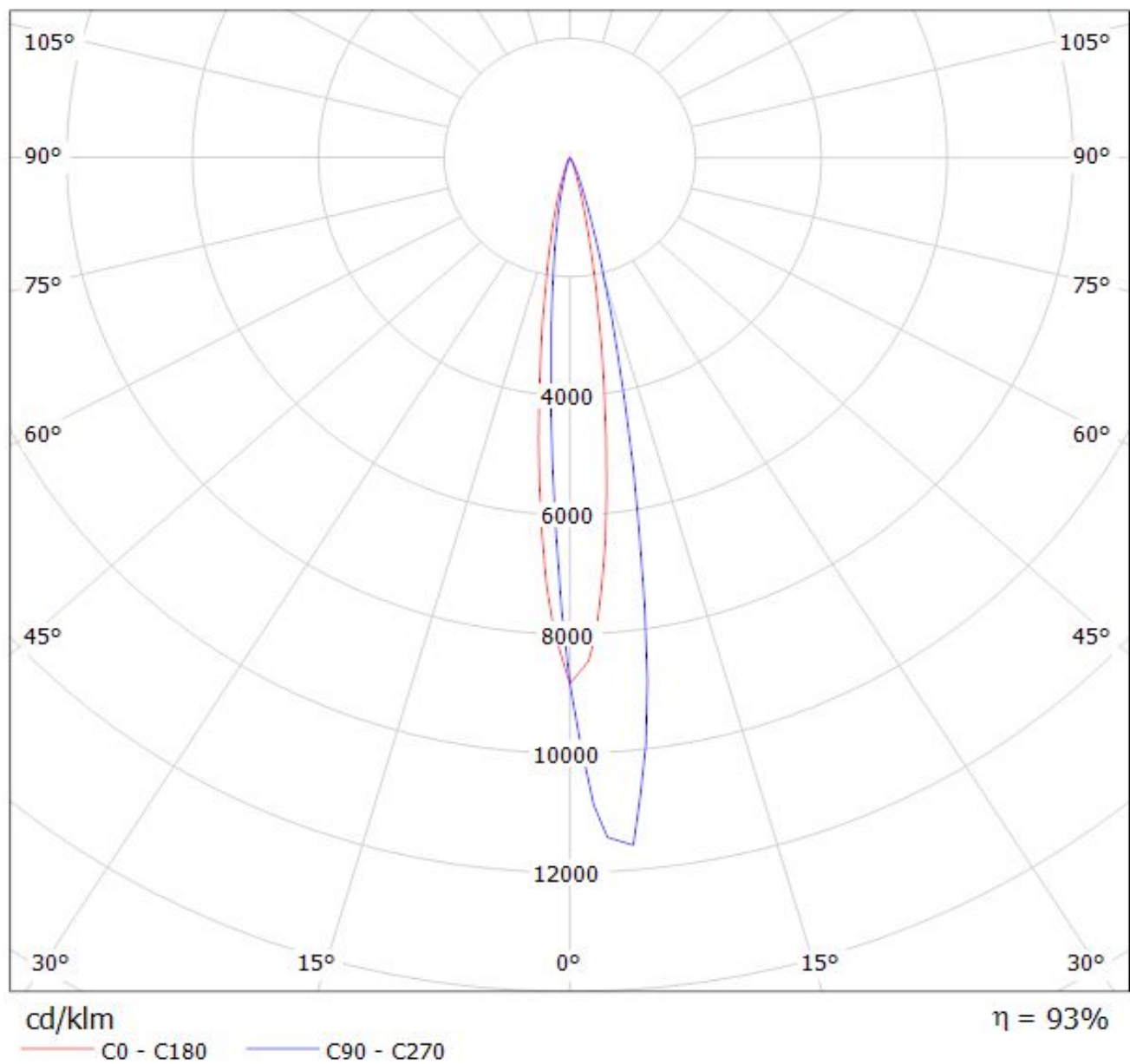
Luminaire: LEDIL OY CA11837_LAURA-M-PIN_(XP-E) Eff.91.8%
Lamps: 1 x XP-E (71.21lm@250mA)



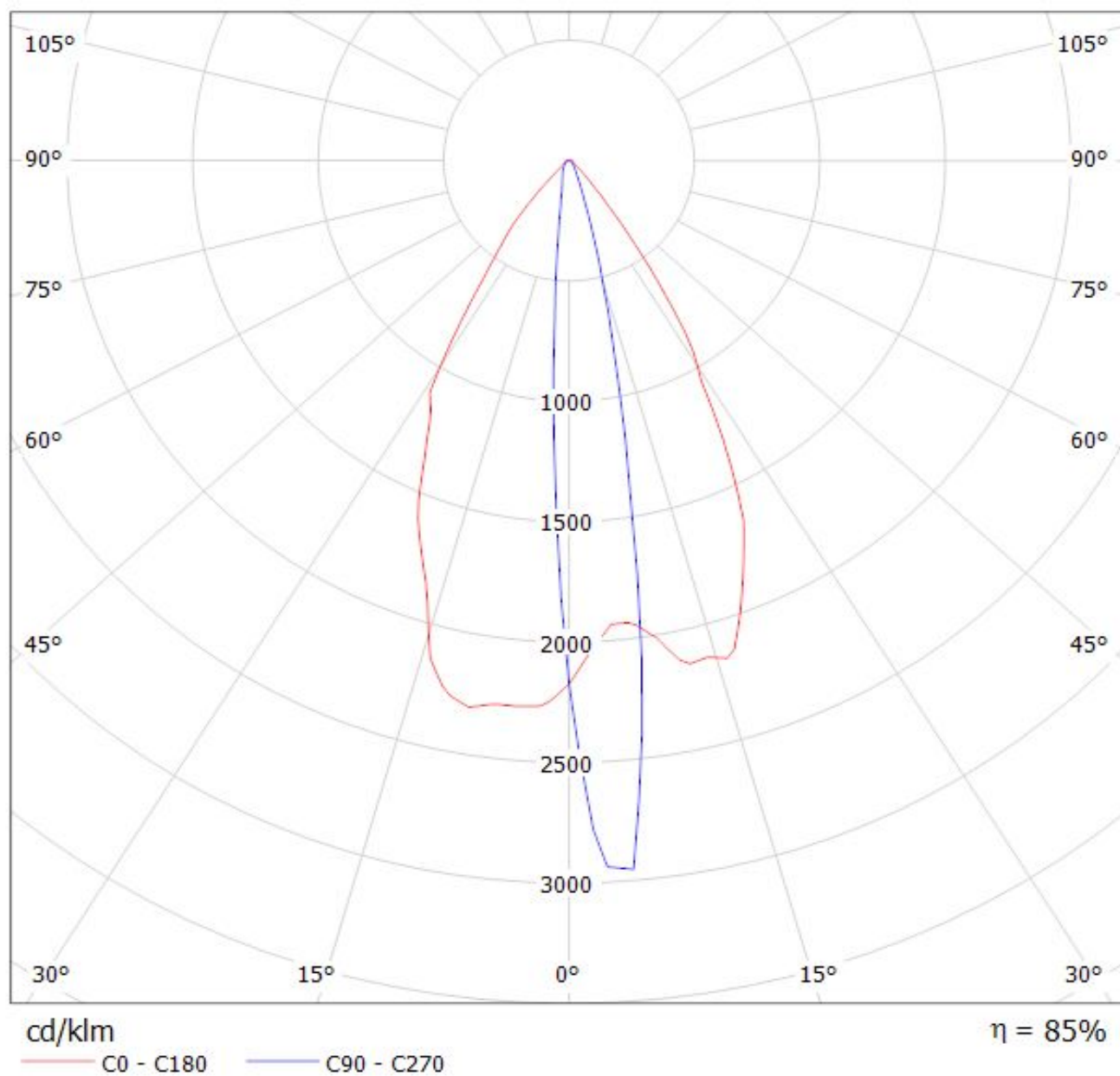
Luminaire: LEDiL CA12344_LAURA-W-PIN_(XP-E) Eff.92%
Lamps: 1 x Cree XP-E (69lm@250mA)



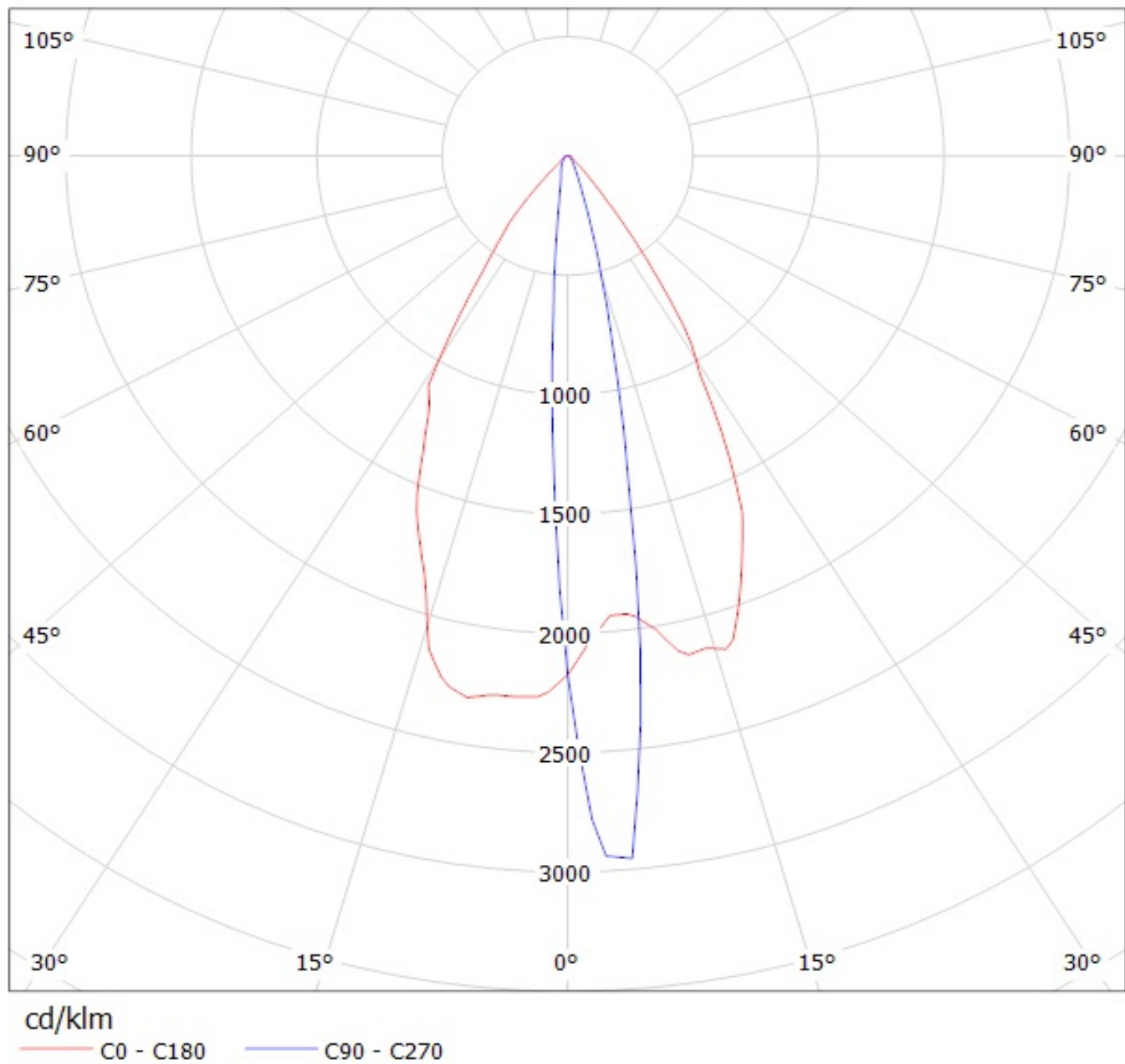
Luminaire: Ledil Oy CA13269_LAURA-SS-WAS_(XP-E) Efficiency=92%
Lamps: 1 x Cree XP-E 70lm @ 250mA



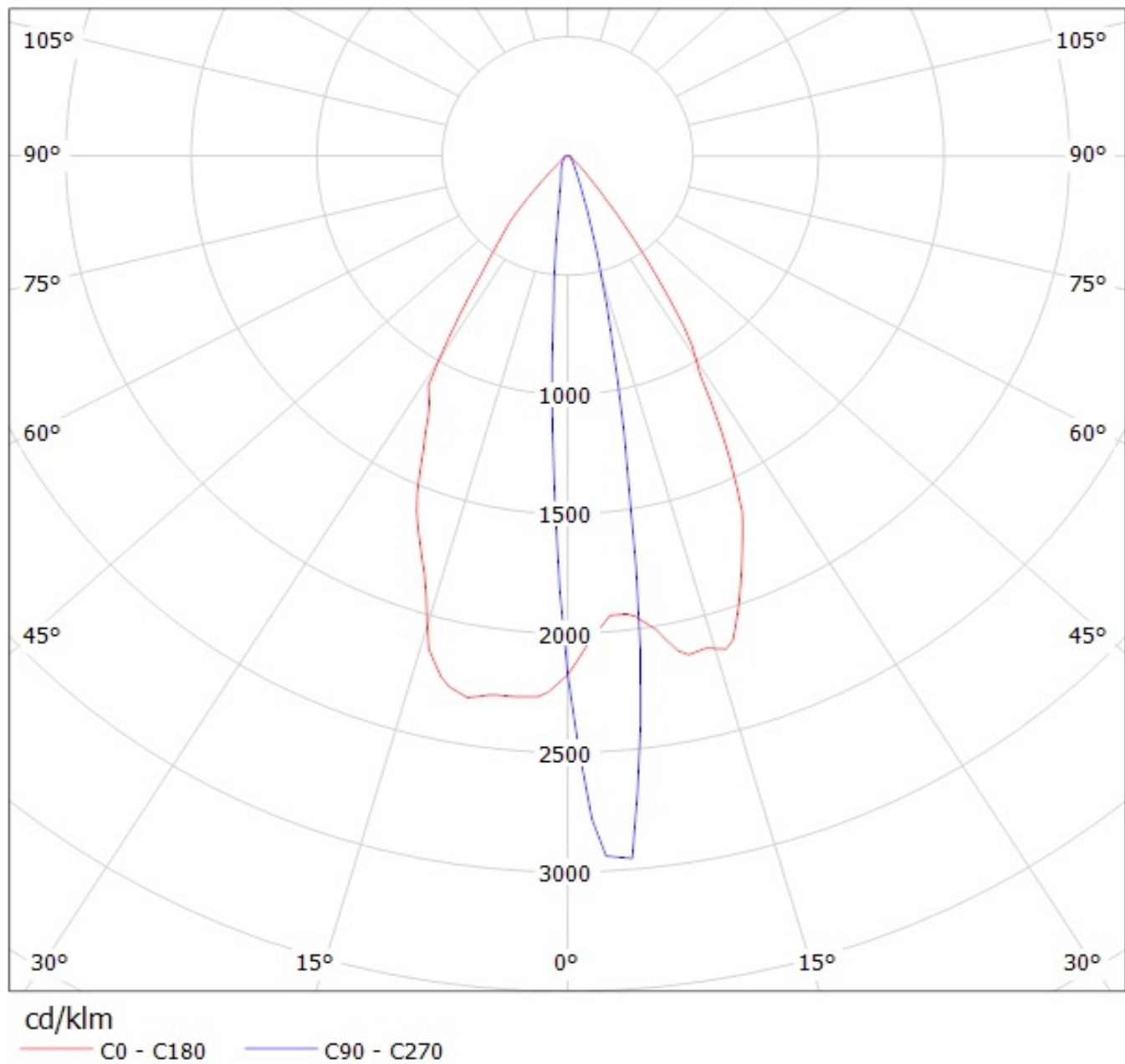
Luminaire: Ledil Oy CA13271_LAURA-O-WAS_(XP-E) Efficiency=84%
Lamps: 1 x Cree XP-E 70lm @ 250mA



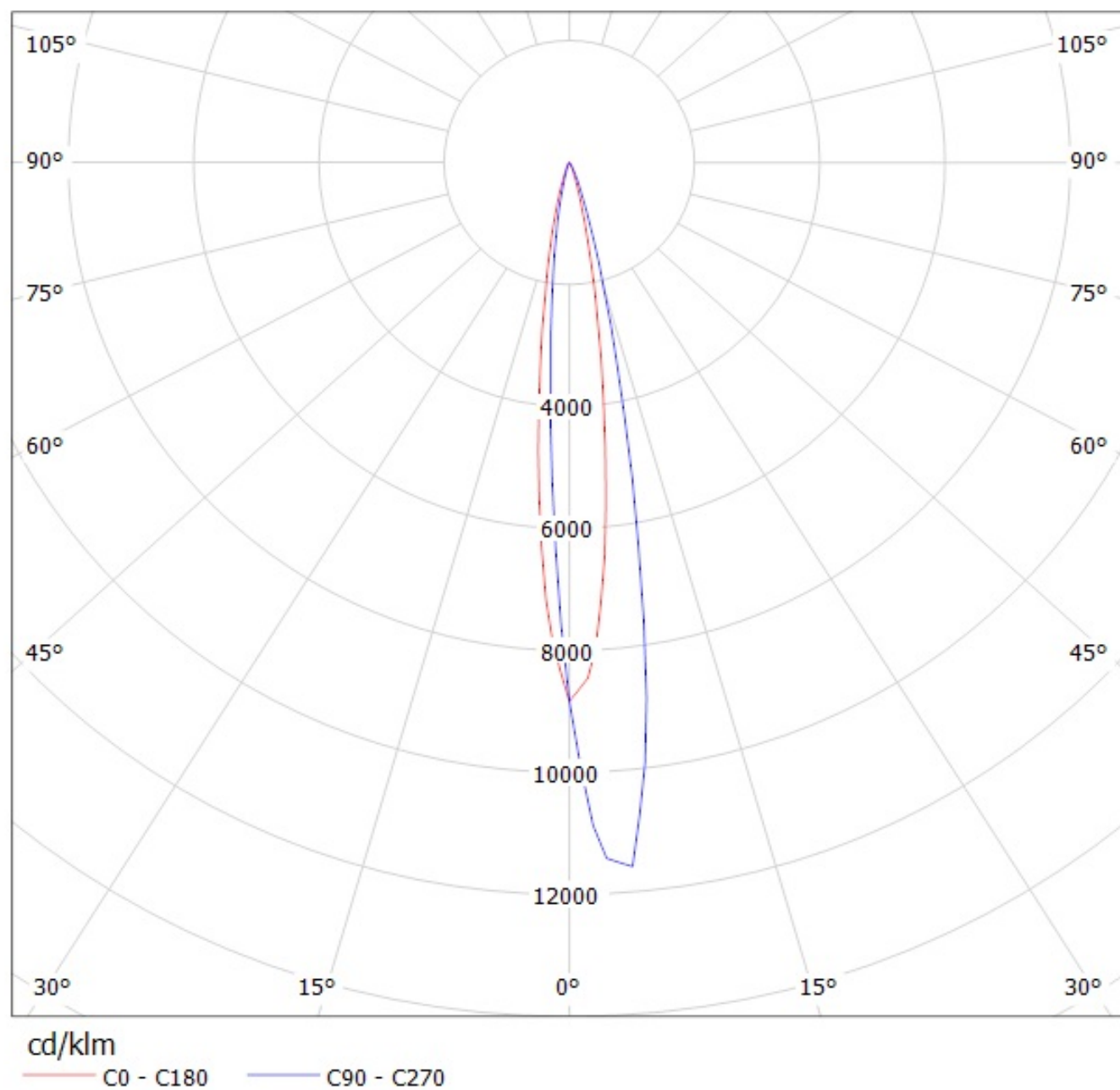
Luminaire: Ledil Oy CP13308&CA13307_LAURA-O-WAS (Cree XP-E 70lm @ 250mA) Efficiency=84%
Lamps: 1 x Cree XP-E 70lm @ 250mA



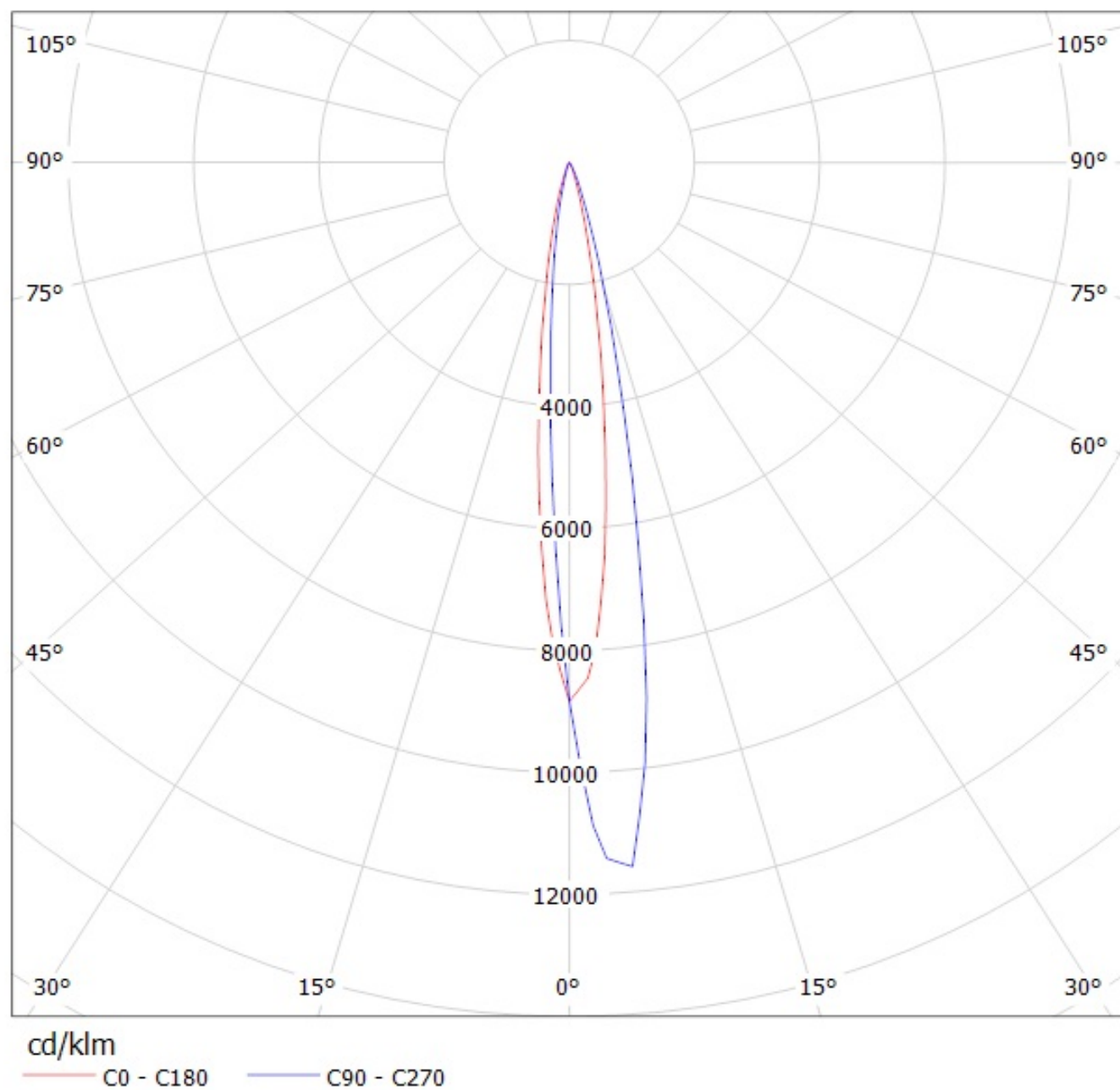
Luminaire: Ledil Oy CP13308&CA13307_LAURA-O-WAS (Cree XP-E 70lm @ 250mA) Efficiency=84%
Lamps: 1 x Cree XP-E 70lm @ 250mA



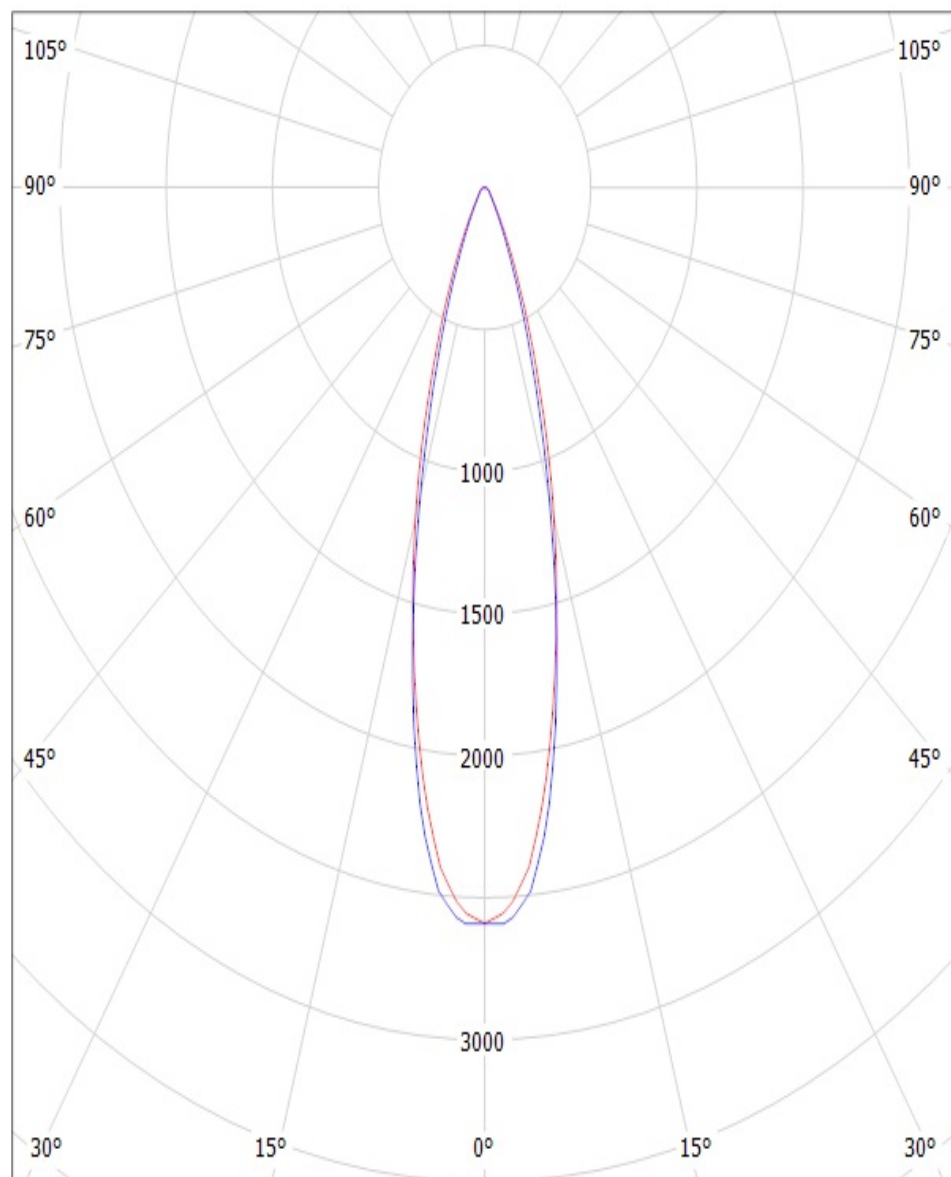
Luminaire: Ledil Oy CP13311&CA13312_LAURA-SS-WAS (Cree XP-E 70lm @ 250mA) Efficiency=92%
Lamps: 1 x Cree XP-E 70lm @ 250mA



Luminaire: Ledil Oy CP13311&CA13312_LAURA-SS-WAS (Cree XP-E 70lm @ 250mA) Efficiency=92%
Lamps: 1 x Cree XP-E 70lm @ 250mA



Luminaire: LEDIL OY CA11837_LAURA-M-PIN_(XP-E) Eff.91.8%
Lamps: 1 x XP-E (71.21lm@250mA)



cd/klm

— C0 - C180

— C90 - C270

Luminaire: LEDiL CA12344_LAURA-W-PIN_(XP-E) Eff.92%
Lamps: 1 x Cree XP-E (69lm@250mA)

