

**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 x 21.6 mm		
Height	13.1 mm		
Style	Square		
Optic Material	PMMA		
Holder Material	PC		
Fastening	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 x 21.6 mm		
Height	13.1 mm		
Style	Square		
Optic Material	PMMA		
Holder Material	PC		
Fastening	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 x 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 x 21.6 mm		
Height	13.1 mm		
Style	Square		
Optic Material	PMMA		
Holder Material	PC		
Fastening	Tape		
Status	Ready		

**Ordering number CA11355_LAURA-M**

Family	Laura	FWHM	30 degrees
Type	Assembly	Efficiency	83 %
LED	XP-E	cd/Im	2.690
Color	Black	Gerber File	Available
Diameter	21.6 x 21.6 mm		
Height	13.1 mm		
Style	Square		
Optic Material	PMMA		
Holder Material	PC		
Fastening	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 x 21.6 mm		
Height	13.1 mm		
Style	Square		
Optic Material	PMMA		
Holder Material	PC		
Fastening	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 x 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		



PRODUCT DATASHEET

Laura series

last update 25/2/2013

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 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 (105 degrees of Celcius / 220 degrees of Fahrenheit). 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 degrees 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

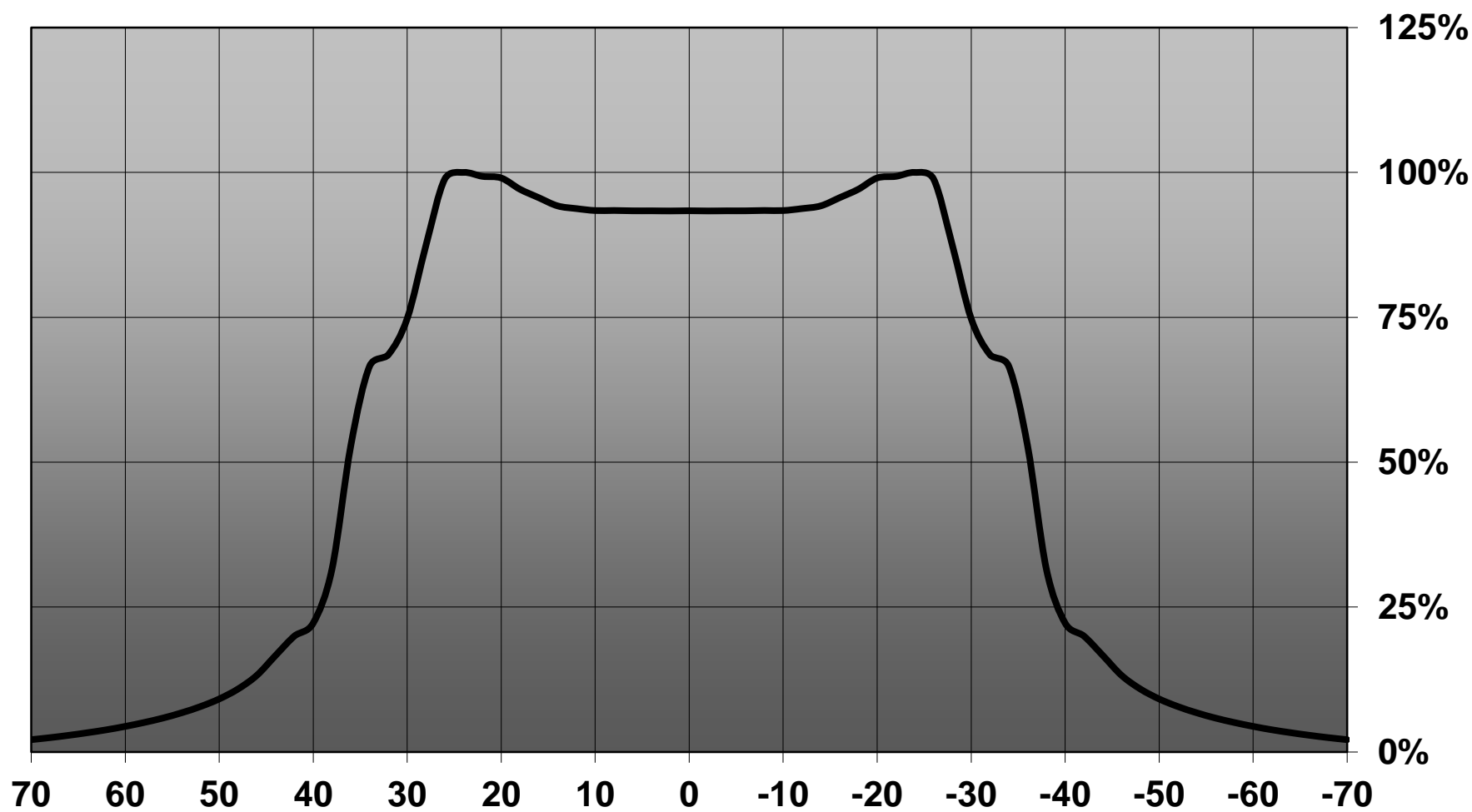
NOTE 1: We advise customer to ensure the suitability and sufficiency of the bond in the end product. For example, mechanical stress, vibration and holes on the surface of the circuit board weaken the strength of the tape.

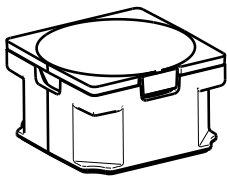
NOTE 2: Assembly to the surface must be made straight, so the tape bonds constant and balanced with fastening surface. Slanted assembly might cause unbalanced bond to the surface. All surfaces where tape is applied must be clean, dry and free from grease and dirt.

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.

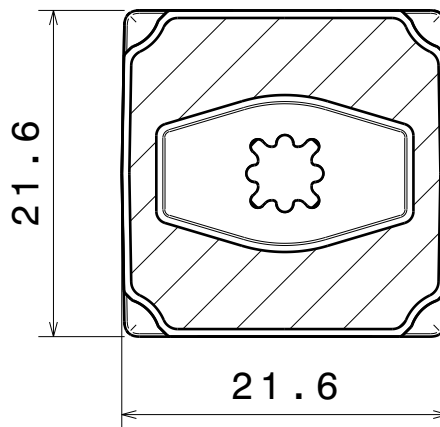
Further note that optical components shall not be cleaned with any chemicals - only micro fiber cloth may be used to remove fingerprints or other traces from handling.

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

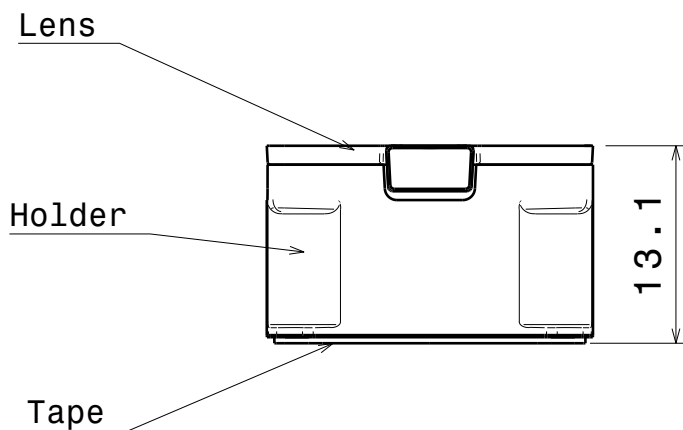




Isometric view
Scale: 1:1



Bottom view



Front view

Materials
lens: PMMA
holder: PC, black
Tape: PU Foam

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DRAWING TITLE

Datasheet Laura-tape series assy

DRAWN BY

p

DATE

11.06.2010

CHECKED BY

h

DATE

25.01.2010

DESIGNED BY

hh

DATE

21.01.2010

SIZE

A4

DRAWING NUMBER

CA11353

REV

1

SCALE

2:1

WEIGHT (g)

SHEET

1/1

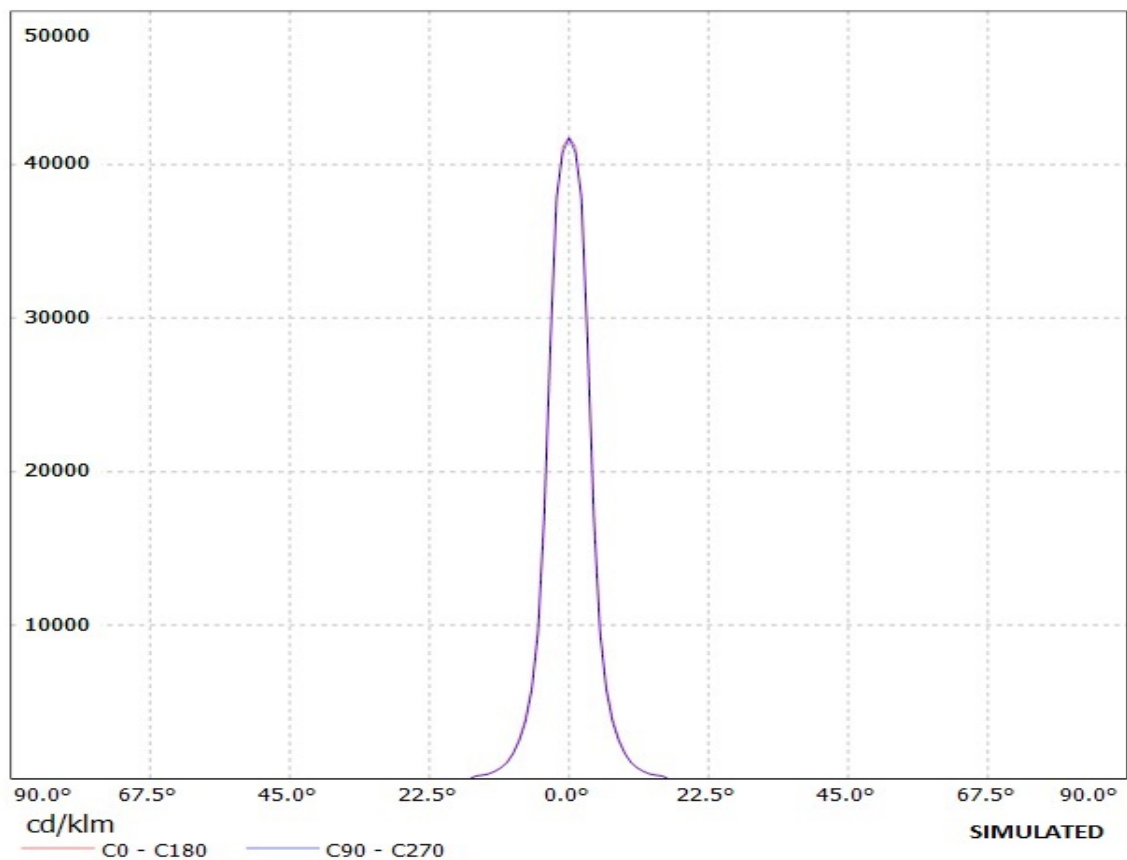
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Ledil Oy CA11353_Laura-RS-XP-tape CA11353_Laura-RS-XP-tape / LDC (Linear)

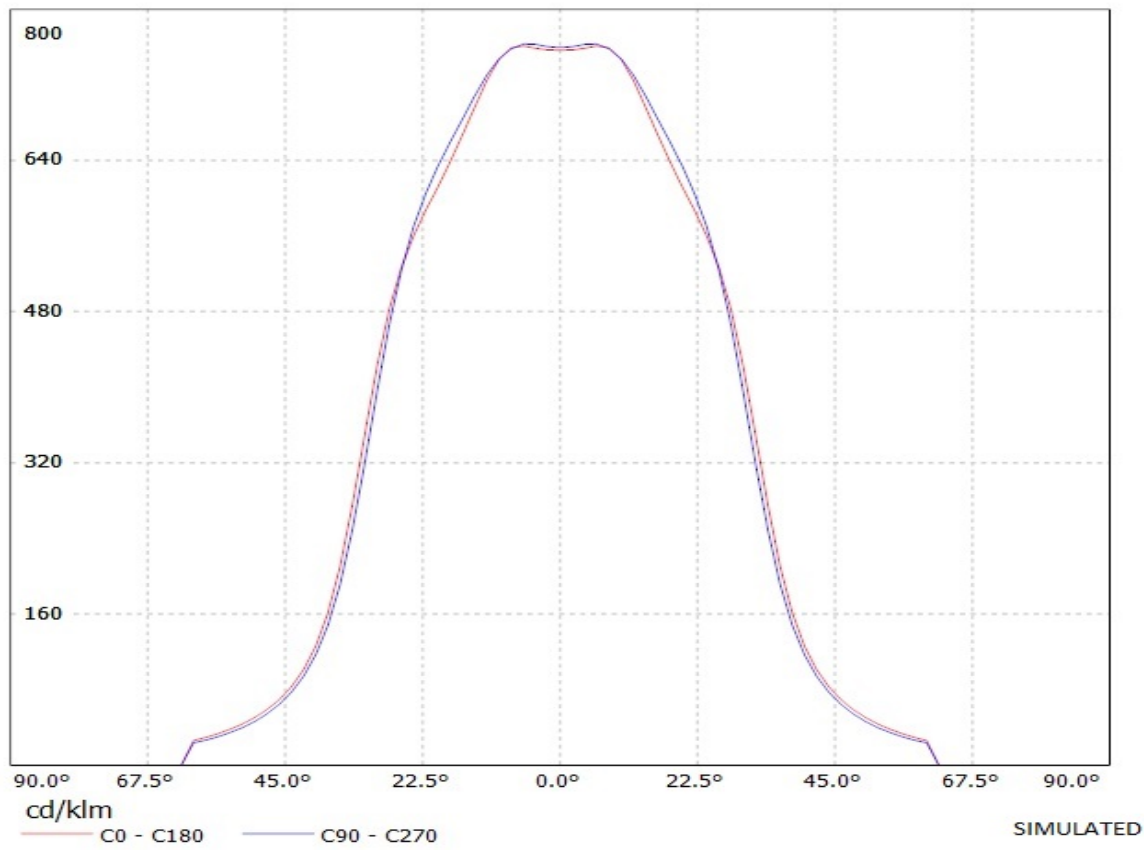
Luminaire: Ledil Oy CA11353_Laura-RS-XP-tape CA11353_Laura-RS-XP-tape

Lamps: 1 x Cree XP-E (White)



Ledil Oy C11624_GT3-XP-WW C11624_GT3-XP-WW / LDC (Linear)

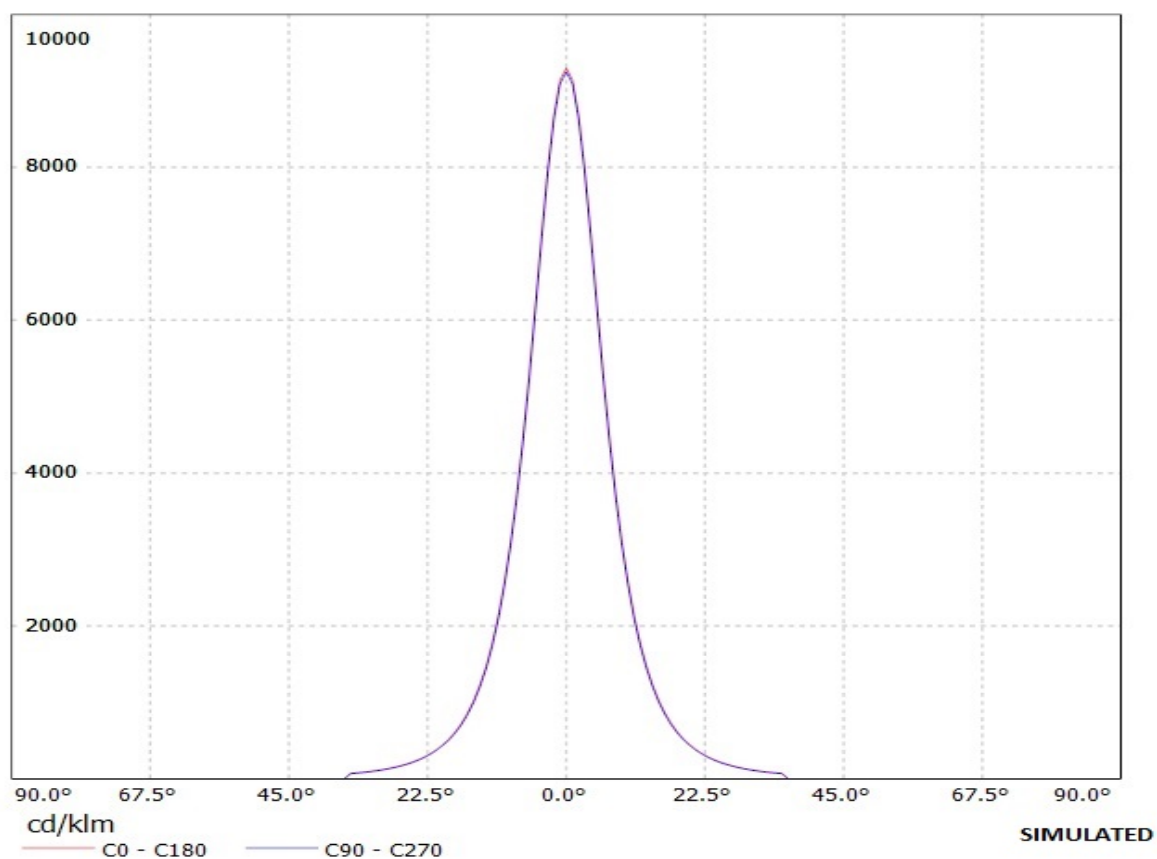
Luminaire: Ledil Oy C11624_GT3-XP-WW C11624_GT3-XP-WW
Lamps: 1 x Cree XP-E x3 white



Ledil Oy CA11360_Laura-D-XP-tape CA11360_Laura-D-XP-tape / LDC (Linear)

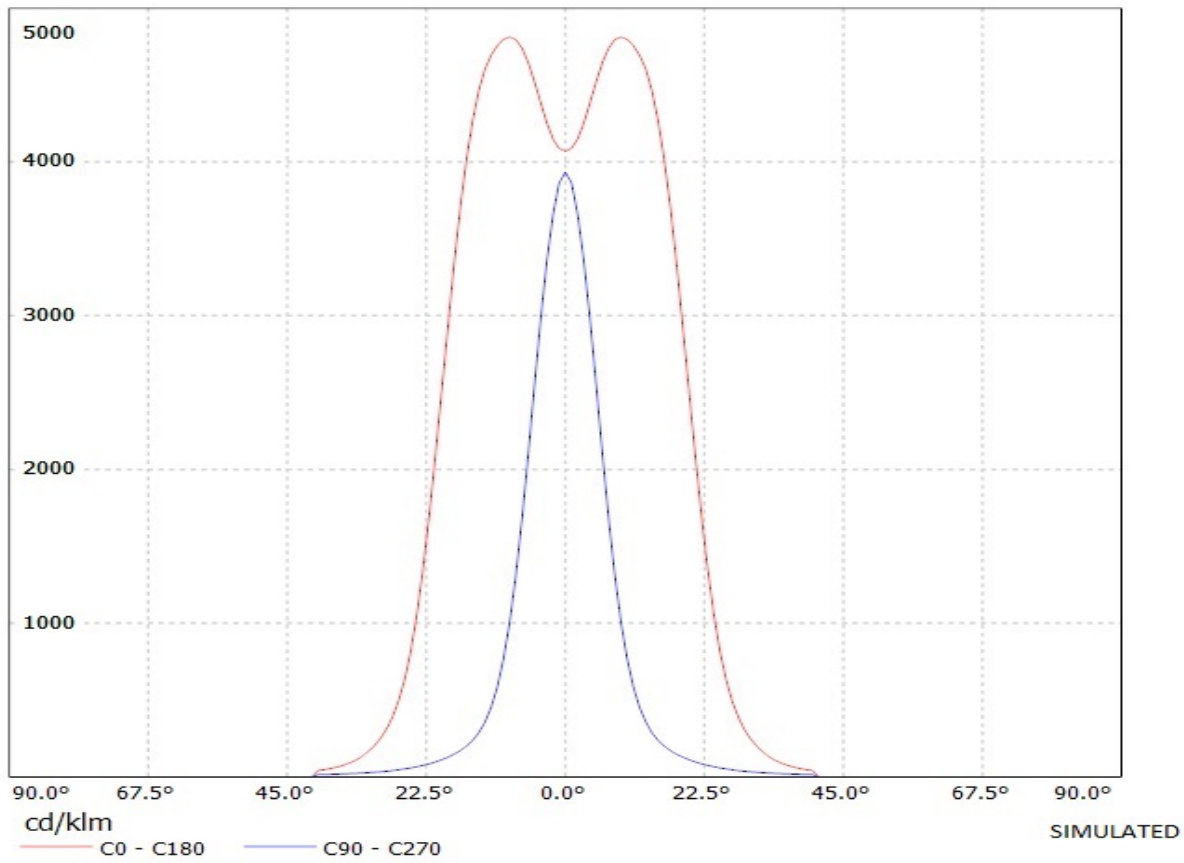
Luminaire: Ledil Oy CA11360_Laura-D-XP-tape CA11360_Laura-D-XP-tape

Lamps: 1 x Cree XP-E (White)



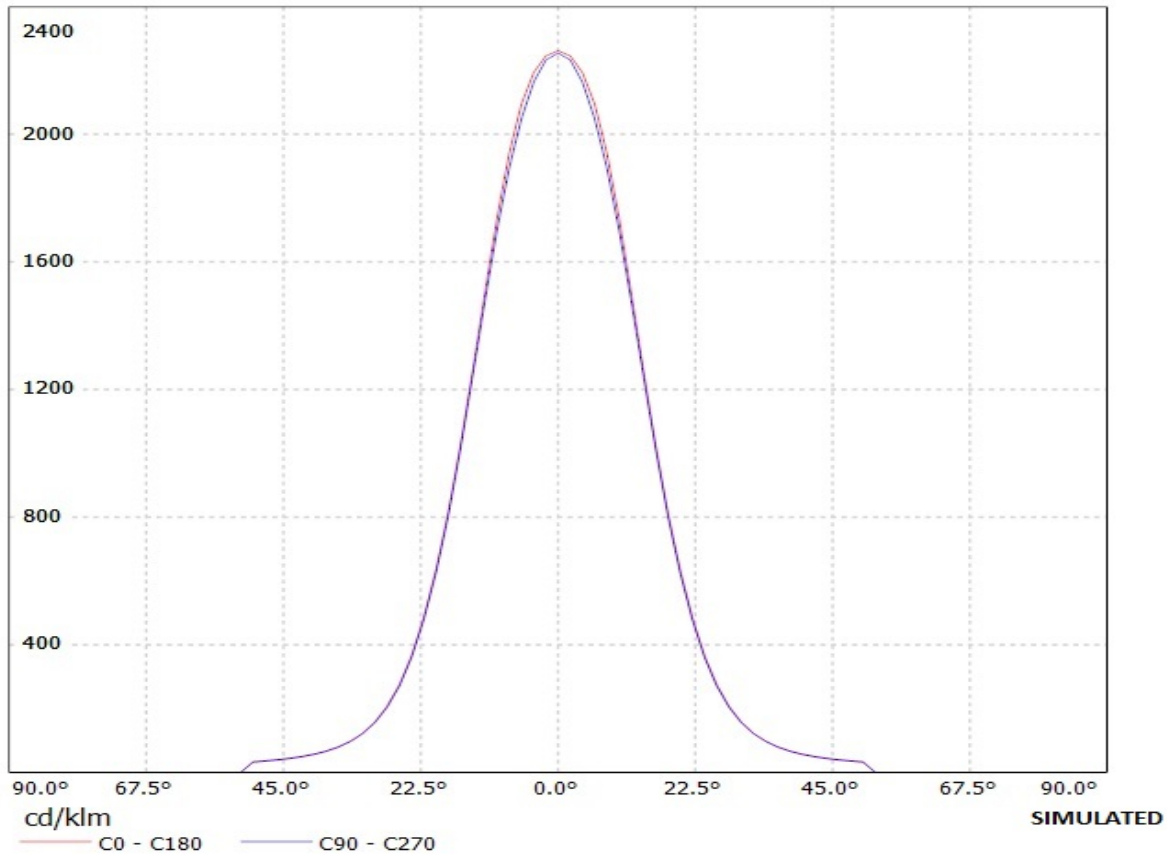
Ledil Oy CA11365-Laura-O-XP-tape CA11365-Laura-O-XP-tape / LDC (Linear)

Luminaire: Ledil Oy CA11365-Laura-O-XP-tape CA11365-Laura-O-XP-tape
Lamps: 1 x Cree XP-E white



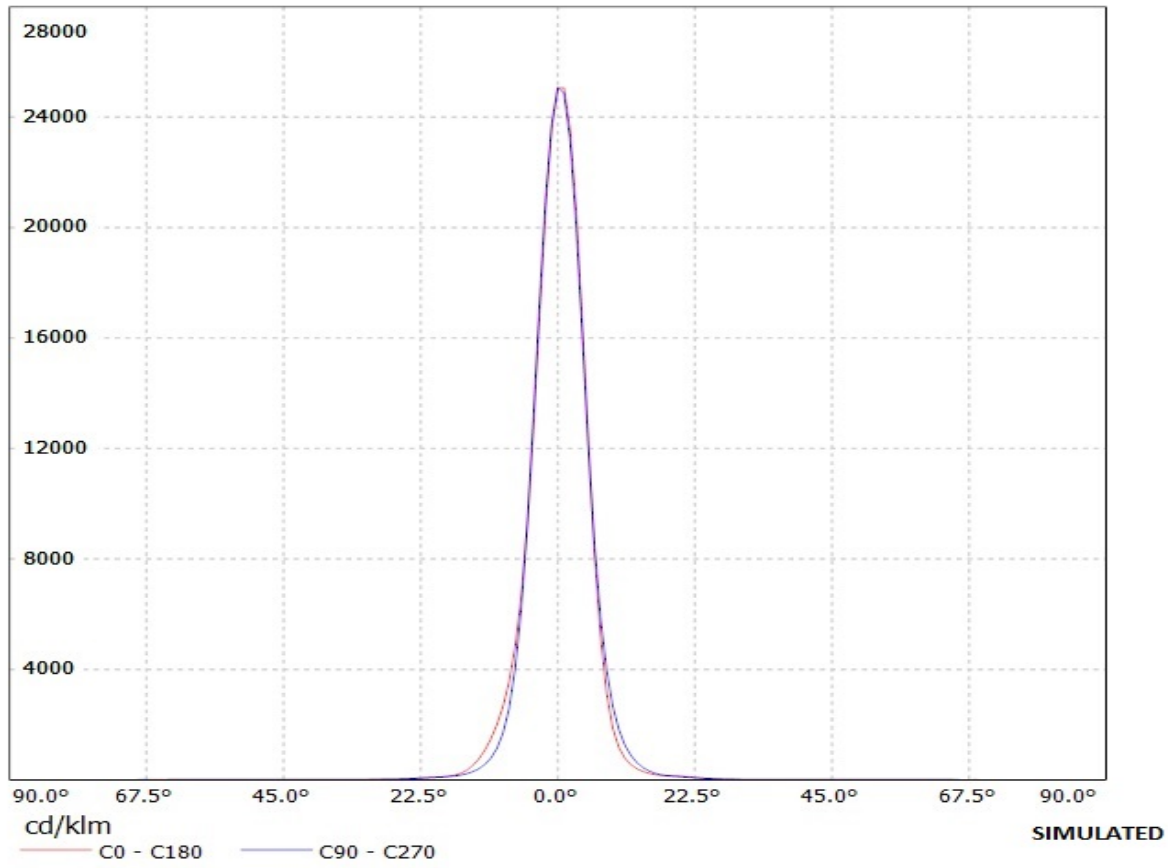
Ledil Oy CA11355_Laura-M-Pin-XP-tape CA11355_Laura-M-Pin-XP-tape LOR=93% / LDC (Linear)

Luminaire: Ledil Oy CA11355_Laura-M-Pin-XP-tape CA11355_Laura-M-Pin-XP-tape LOR=93%
Lamps: 1 x Cree XP-E white



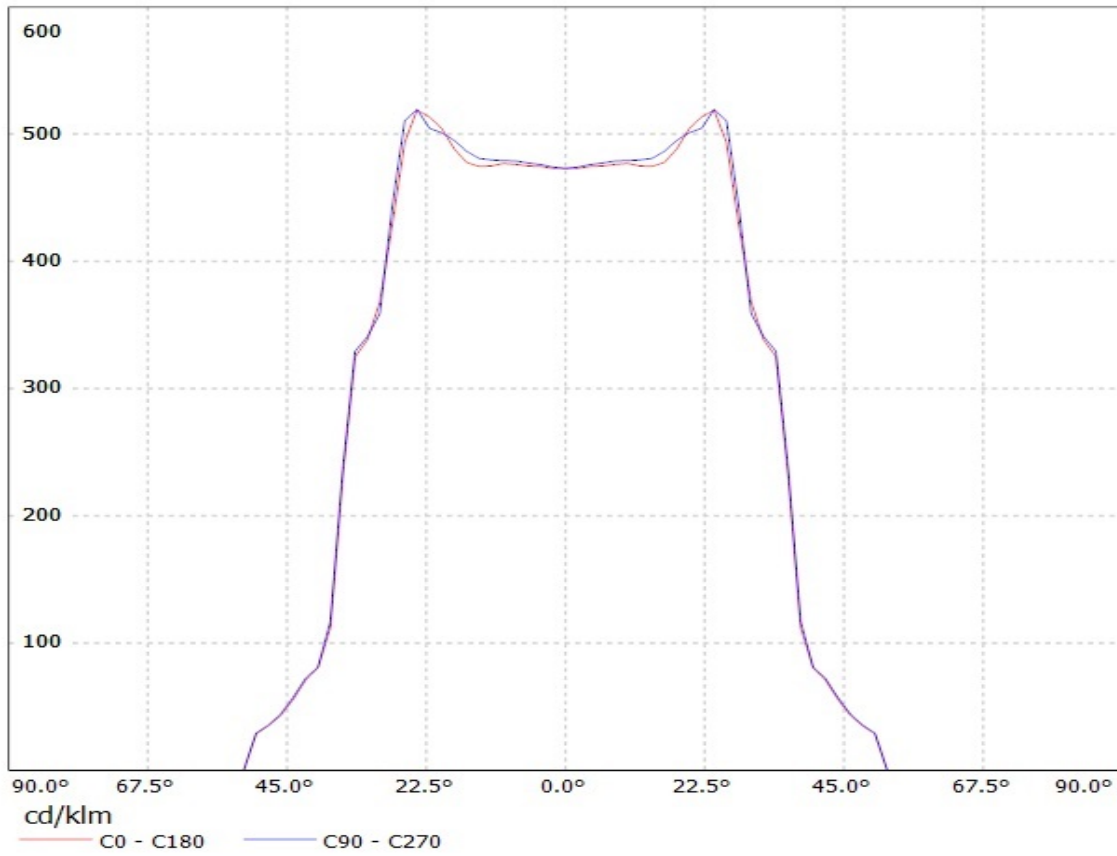
Ledil Oy FA11739_LXP-RS2 LOR=94% / LDC (Linear)

Luminaire: Ledil Oy FA11739_LXP-RS2 LOR=94%
Lamps: 1 x Cree XP-E 72lm 250mA



Ledil Oy CA11525_Laura-Refl-W-XP-tape CA11525_Laura-Refl-W-XP-tape / LDC (Linear)

Luminaire: Ledil Oy CA11525_Laura-Refl-W-XP-tape CA11525_Laura-Refl-W-XP-tape
Lamps: 1 x Cree XP-E white

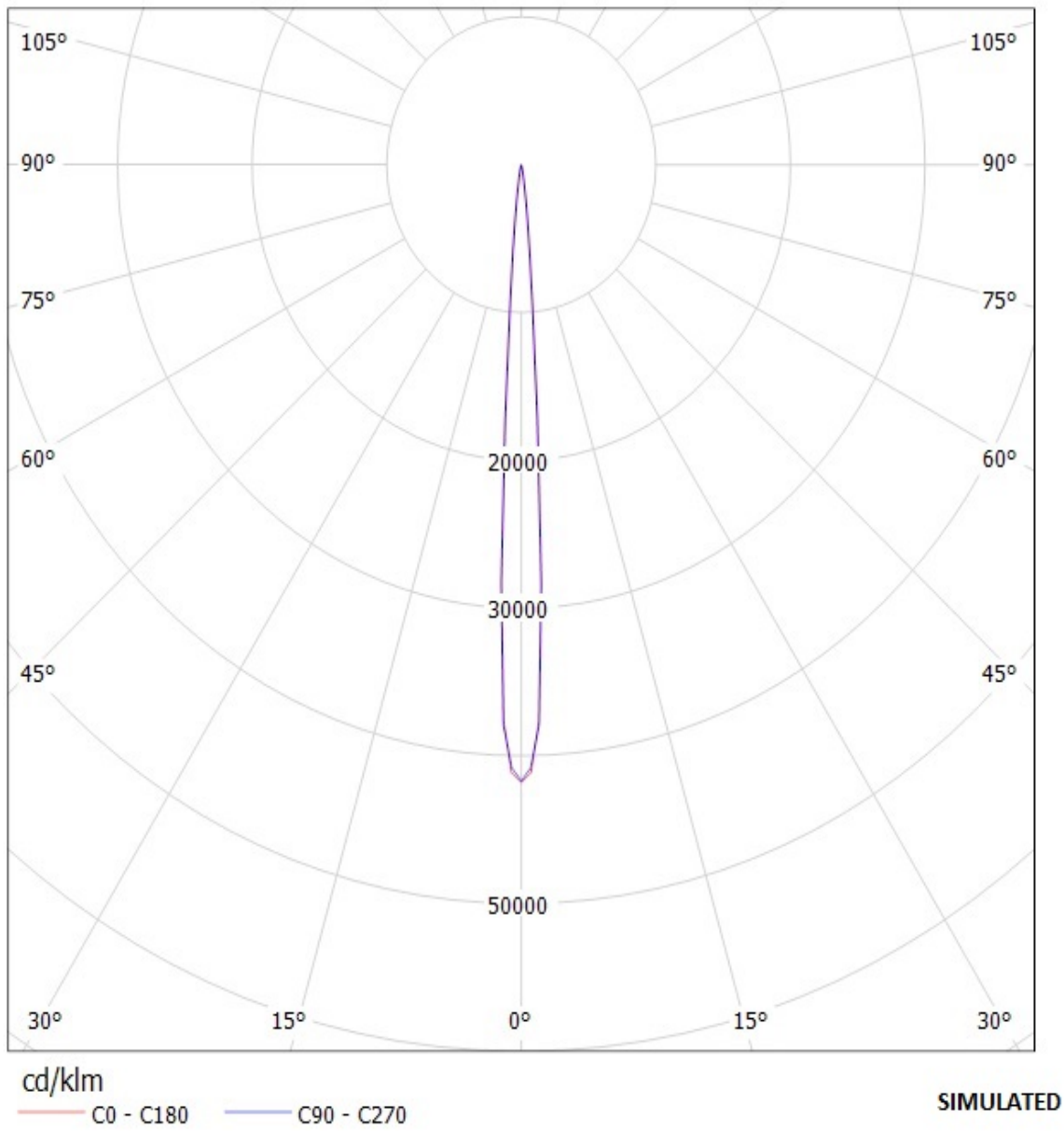


SIMULATED

Ledil Oy CA11353_Laura-RS-XP-tape CA11353_Laura-RS-XP-tape / LDC (Polar)

Luminaire: Ledil Oy CA11353_Laura-RS-XP-tape CA11353_Laura-RS-XP-tape

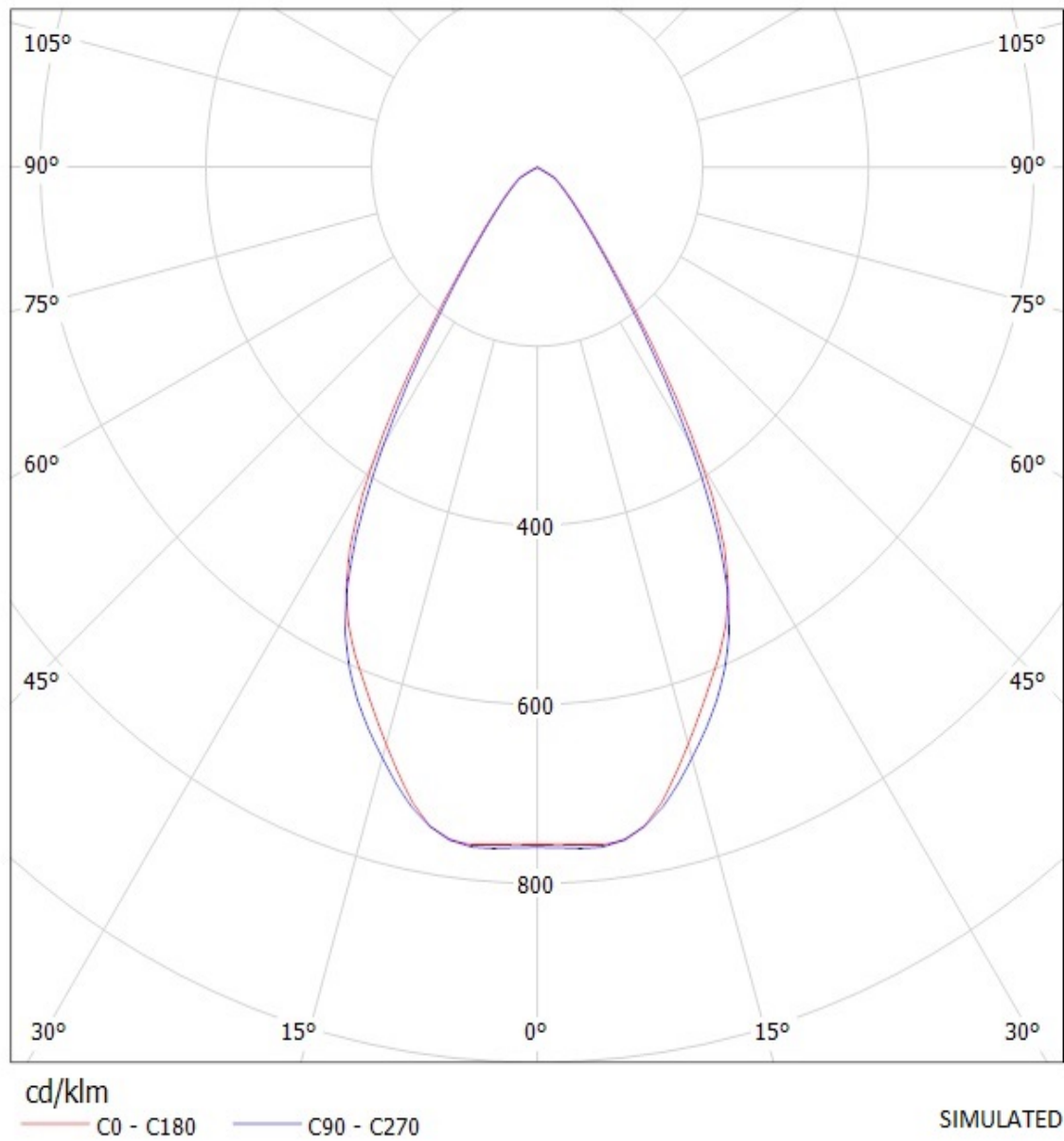
Lamps: 1 x Cree XP-E (White)



Ledil Oy C11624_GT3-XP-WW C11624_GT3-XP-WW / LDC (Polar)

Luminaire: Ledil Oy C11624_GT3-XP-WW C11624_GT3-XP-WW

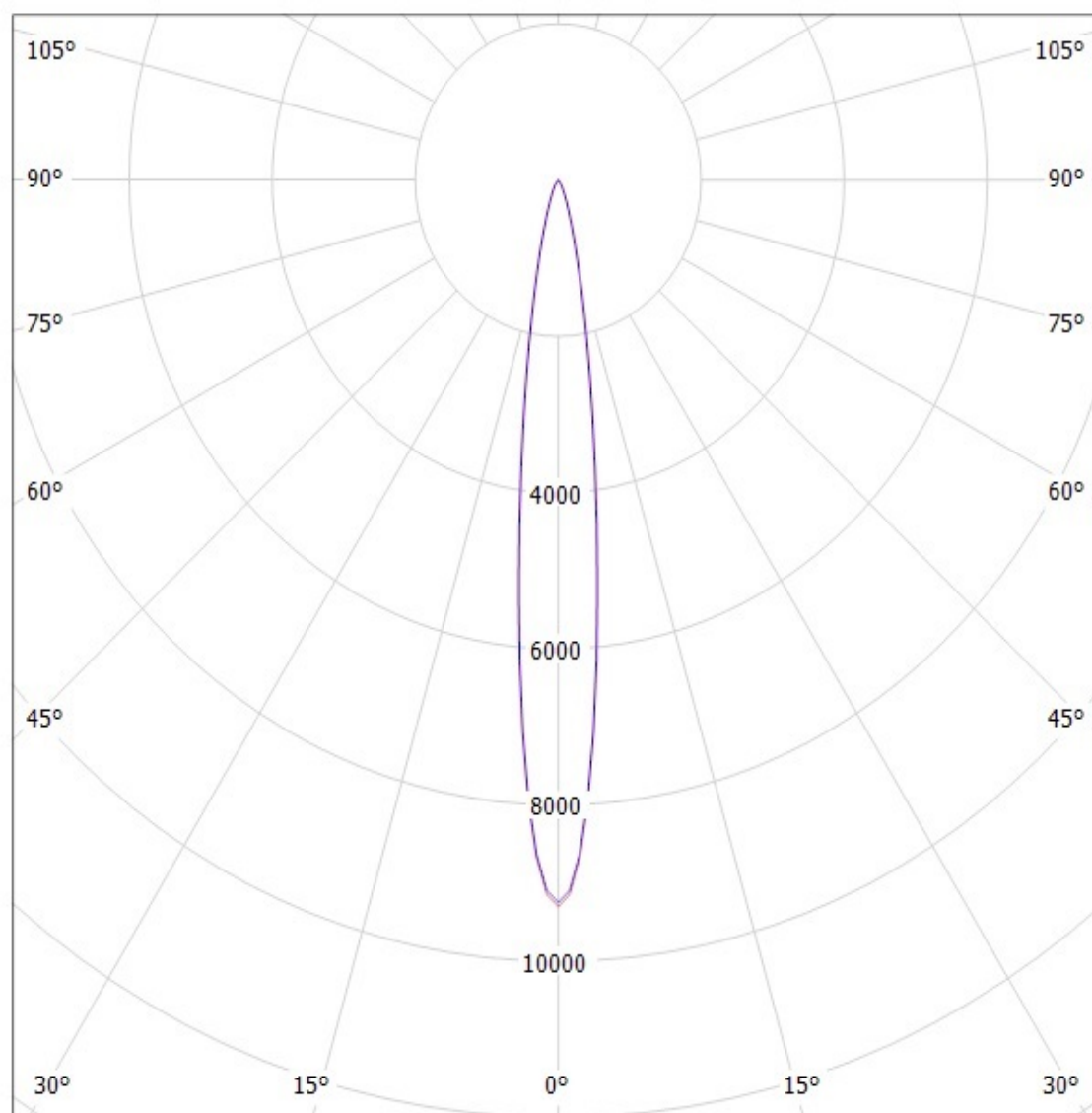
Lamps: 1 x Cree XP-E x3 white



Ledil Oy CA11360_Laura-D-XP-tape CA11360_Laura-D-XP-tape / LDC (Polar)

Luminaire: Ledil Oy CA11360_Laura-D-XP-tape CA11360_Laura-D-XP-tape

Lamps: 1 x Cree XP-E (White)



cd/klm

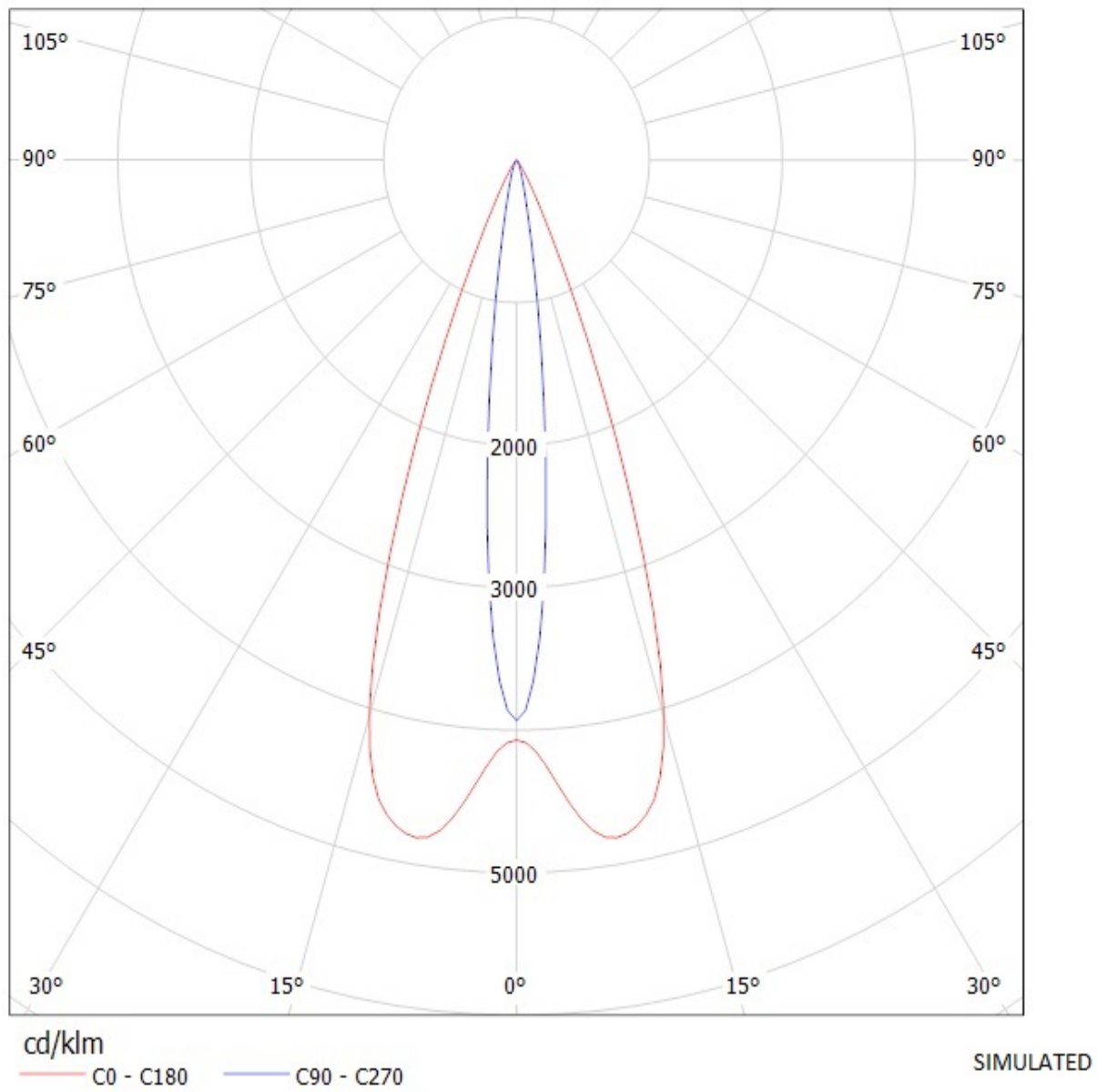
— C0 - C180 — C90 - C270

SIMULATED

Ledil Oy CA11365-Laura-O-XP-tape CA11365-Laura-O-XP-tape / LDC (Polar)

Luminaire: Ledil Oy CA11365-Laura-O-XP-tape CA11365-Laura-O-XP-tape

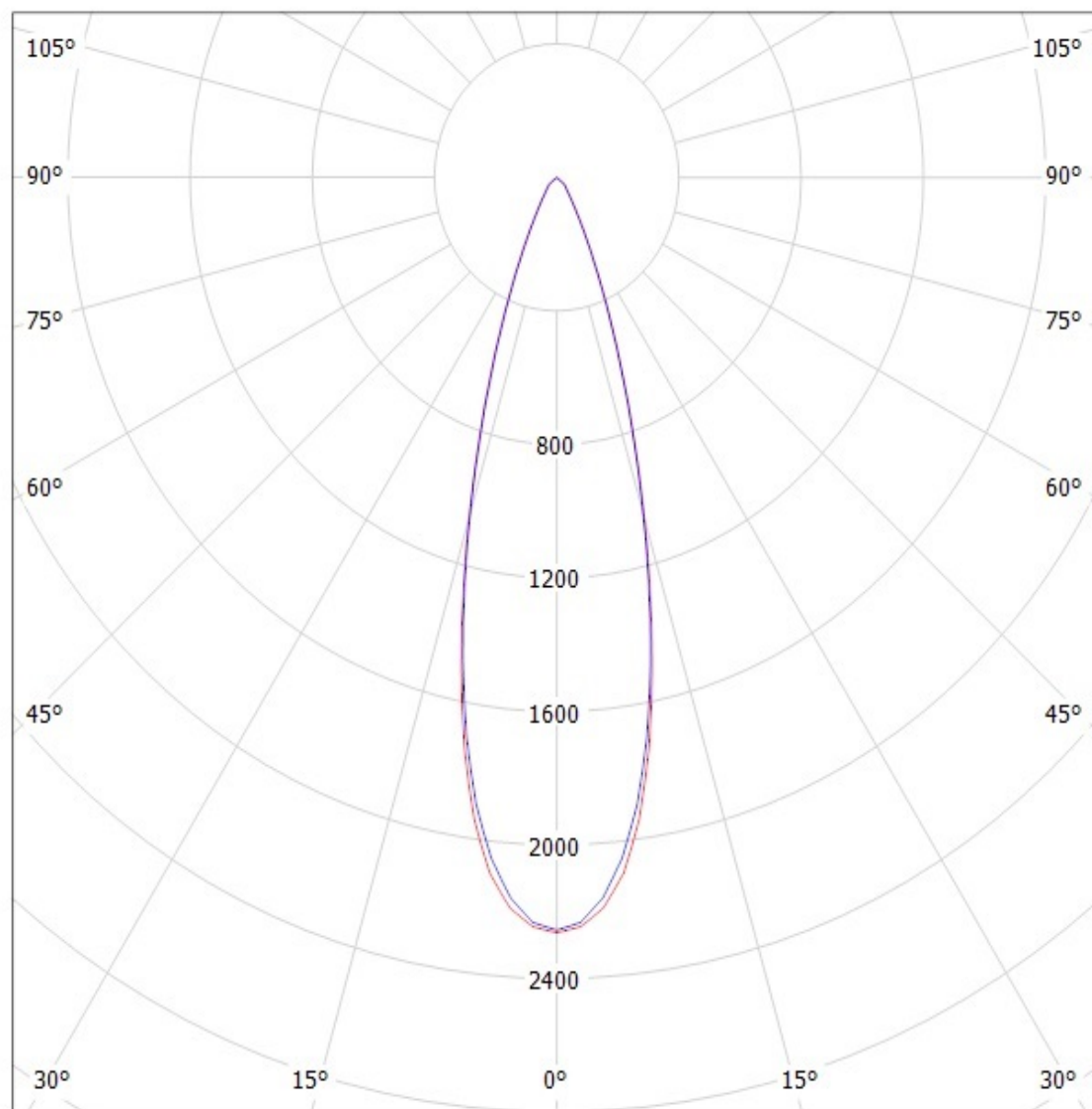
Lamps: 1 x Cree XP-E white



Ledil Oy CA11355_Laura-M-Pin-XP-tape CA11355_Laura-M-Pin-XP-tape LOR=93% / LDC (Polar)

Luminaire: Ledil Oy CA11355_Laura-M-Pin-XP-tape CA11355_Laura-M-Pin-XP-tape LOR=93%

Lamps: 1 x Cree XP-E white



cd/klm

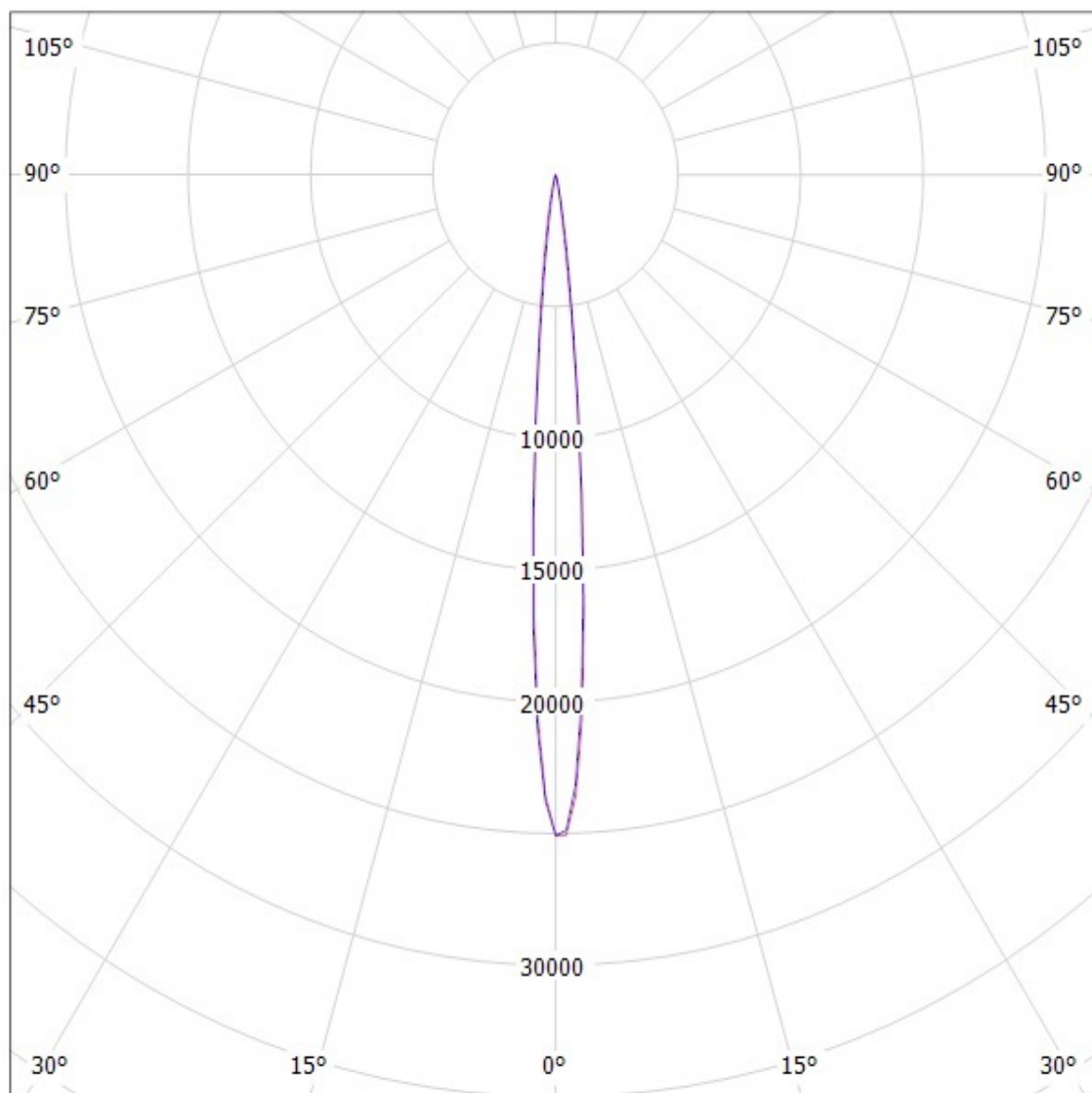
— C0 - C180 — C90 - C270

SIMULATED

Ledil Oy FA11739_LXP-RS2 LOR=94% / LDC (Polar)

Luminaire: Ledil Oy FA11739_LXP-RS2 LOR=94%

Lamps: 1 x Cree XP-E 72lm 250mA



cd/klm

— C0 - C180

— C90 - C270

SIMULATED

Ledil Oy CA11525_Laura-Refl-W-XP-tape CA11525_Laura-Refl-W-XP-tape / LDC (Polar)

Luminaire: Ledil Oy CA11525_Laura-Refl-W-XP-tape CA11525_Laura-Refl-W-XP-tape

Lamps: 1 x Cree XP-E white

