

**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	On production		

**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 x 21.6 mm		
Height	13.1 mm		
Style	Square		
Optic Material	PMMA		
Holder Material	PC		
Fastening	Pin, tape		
Status	On production		

**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 x 21.6 mm		
Height	13.1 mm		
Style	Square		
Optic Material	PMMA		
Holder Material	PC		
Fastening	Pin, tape		
Status	On production		

**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 x 21.6 mm		
Height	13.1 mm		
Style	Square		
Optic Material	PMMA		
Holder Material	PC		
Fastening	Pin, tape		
Status	On production		

**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 x 21.6 mm		
Height	13.1 mm		
Style	Square		
Optic Material	PMMA		
Holder Material	PC		
Fastening	Pin, tape		
Status	On production		

**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 x 21.6 mm		
Height	13.1 mm		
Style	Square		
Optic Material	PMMA		
Holder Material	PC		
Fastening	Pin, tape		
Status	On production		

**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 x 21.6 mm		
Height	13.1 mm		
Style	Square		
Optic Material	PMMA		
Holder Material	PC		
Fastening	Pin, tape		
Status	On production		

**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 x 21.6 mm		
Height	13.1 mm		
Style	Square		
Optic Material	PC		
Holder Material	PC		
Fastening	Pin, tape		
Status	On production		



PRODUCT DATASHEET

Laura series

last update 9/7/2013

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.



PRODUCT DATASHEET

Laura series

last update 9/7/2013

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>

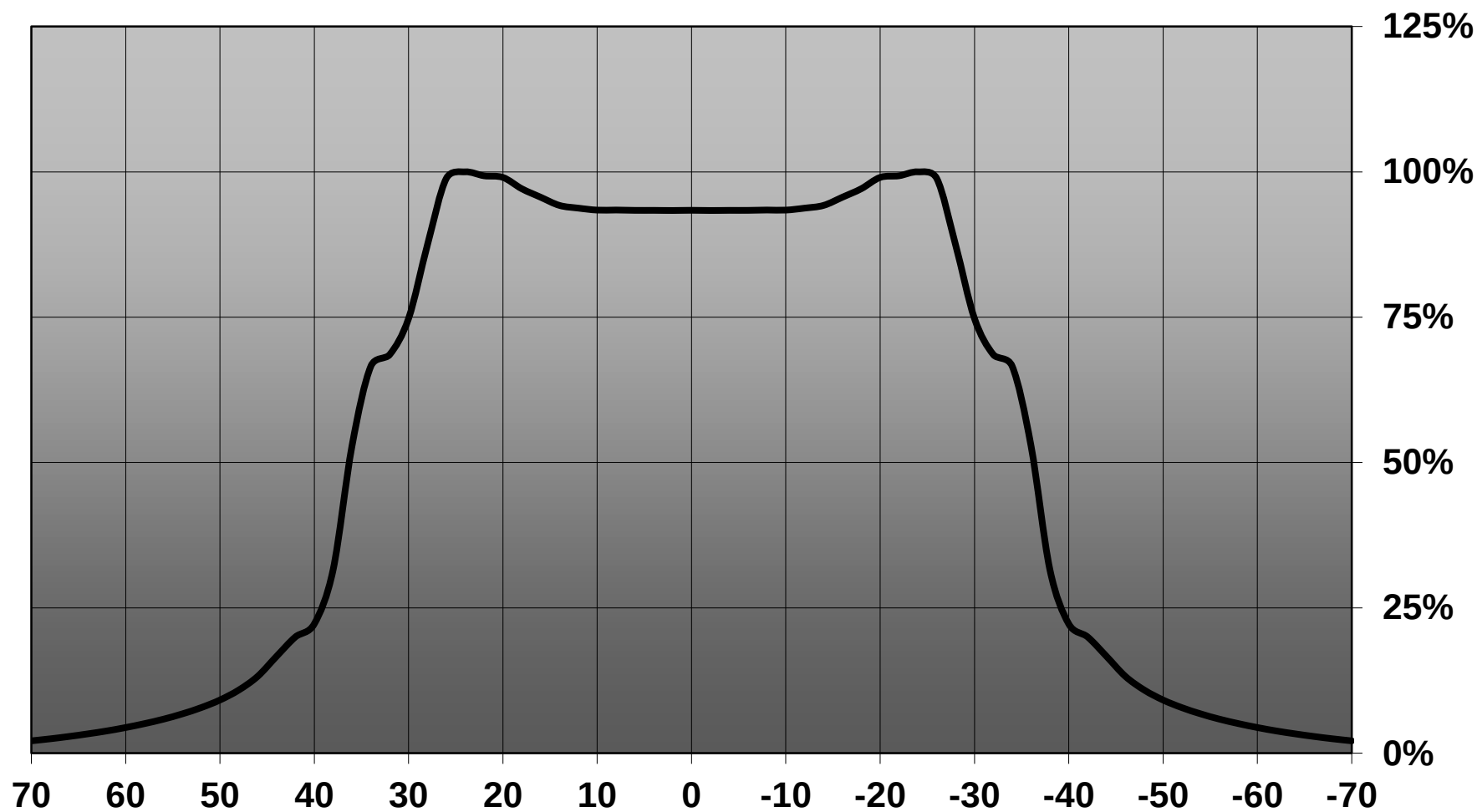
- Lens material optical grade PC with high UV and temperature resistance (120 degrees of Celcius / 248 degrees of Fahrenheit). Allows use of high current and temperature conditions.

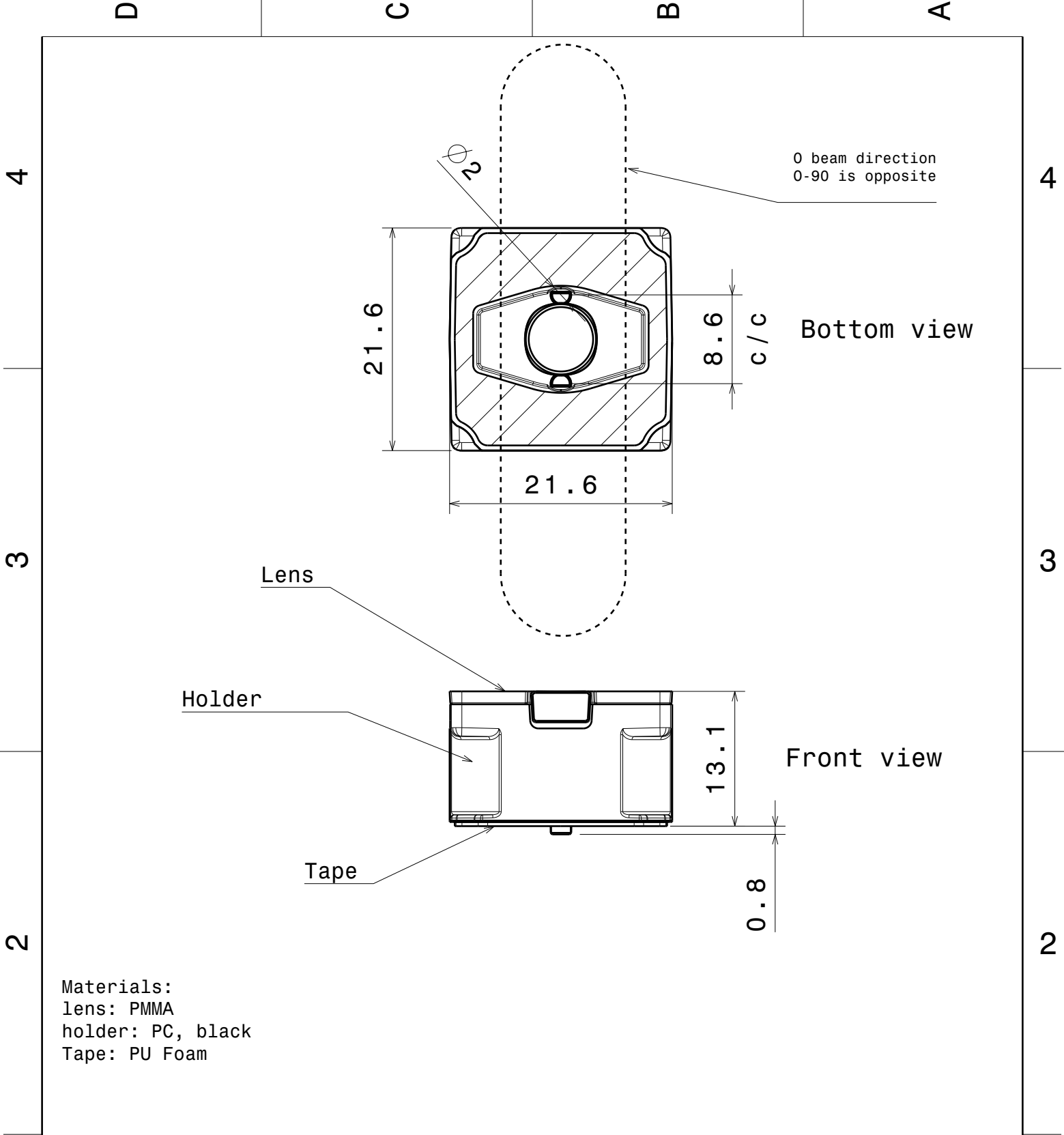
Please find more information about used materials from below:

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 CA12984_LAURA-REF-XW-PIN
(XP-E)

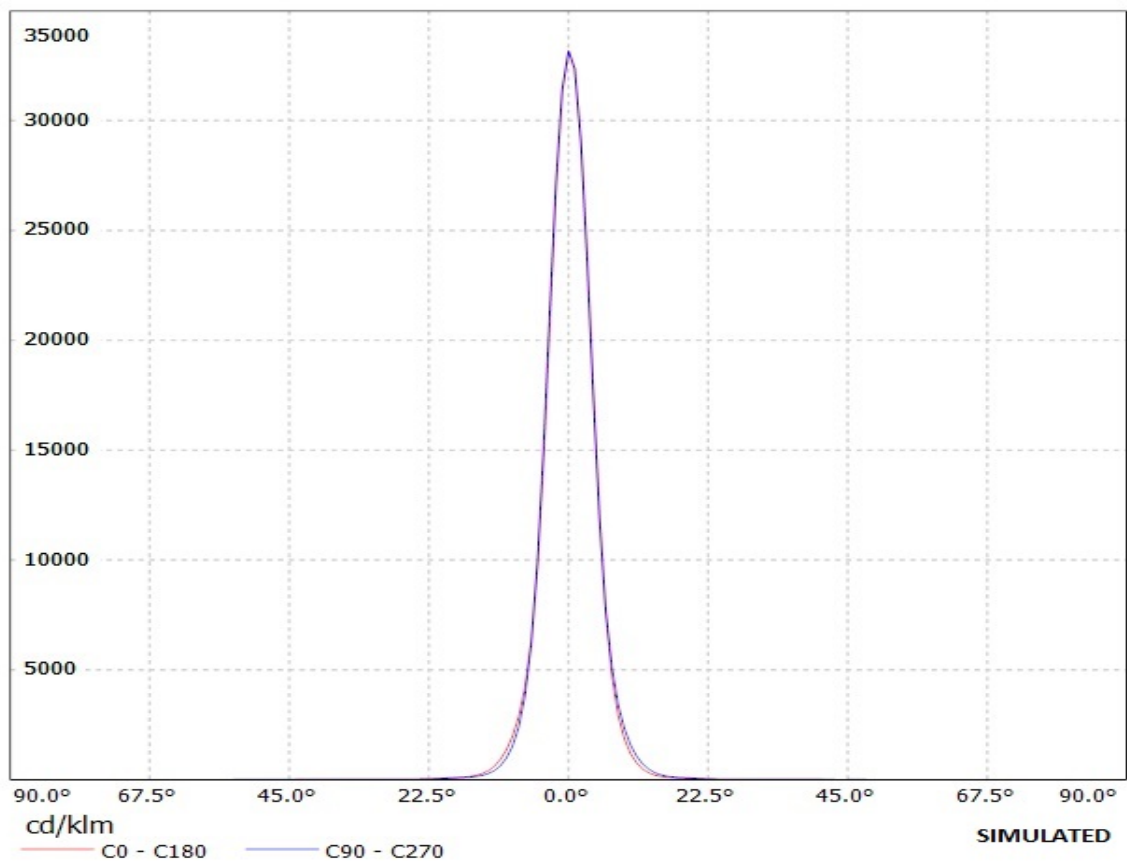




Materials:
lens: PMMA
holder: PC, black
Tape: PU Foam

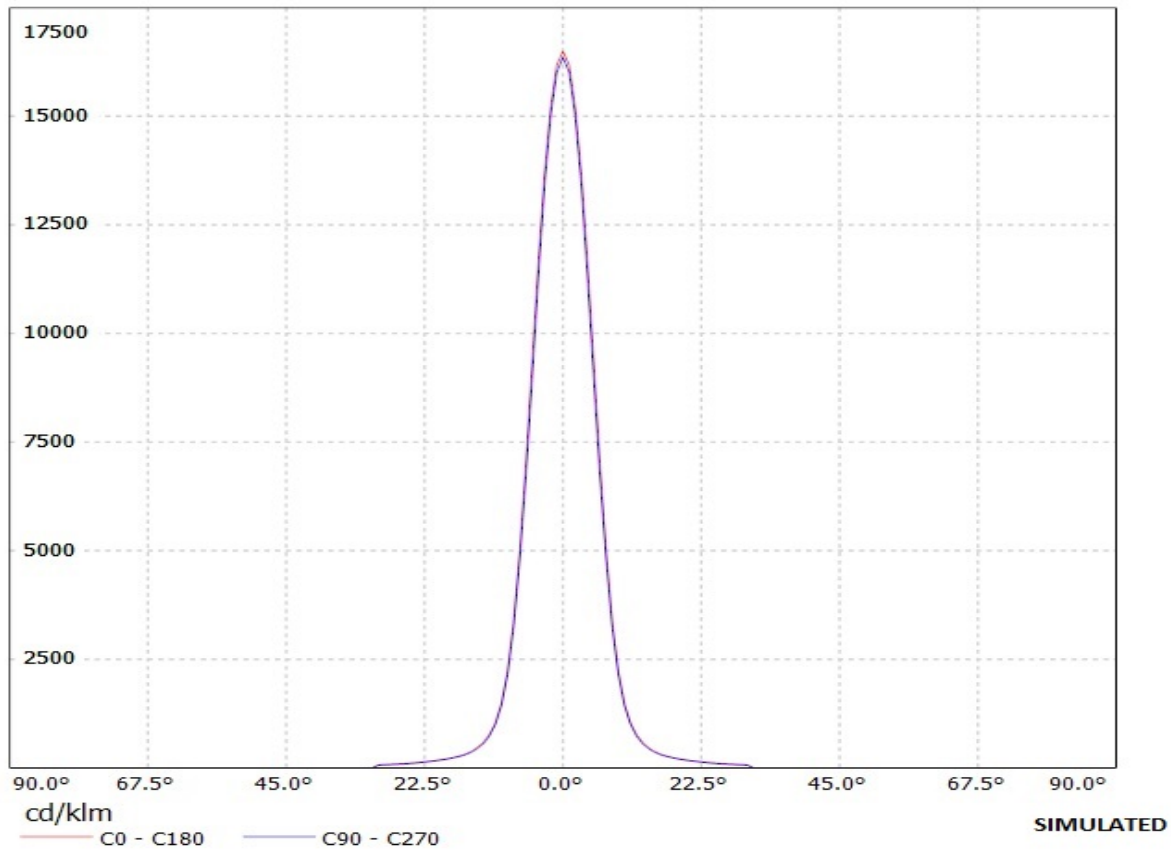
This drawing is our property. It can't be reproduced or communicated without our written agreement.		LEDIL L T F F e e l i n			
		DRAWING TITLE			
DRAWN BY p	DATE v20.1.2012	Datasheet Laura-Pin-tape assy			
CHECKED BY s n	DATE 20.1.2012	SIZE A4	DRAWING NUMBER -		REV 2
DESIGNED BY hh/mav	DATE 04.11.2010	SCALE 2:1	WEIGHT (g)		SHEET 1/1

Luminaire: Ledil Laura-RS-Pin-XP Laura-RS-Pin-XP
Lamps: 1 x LED Module



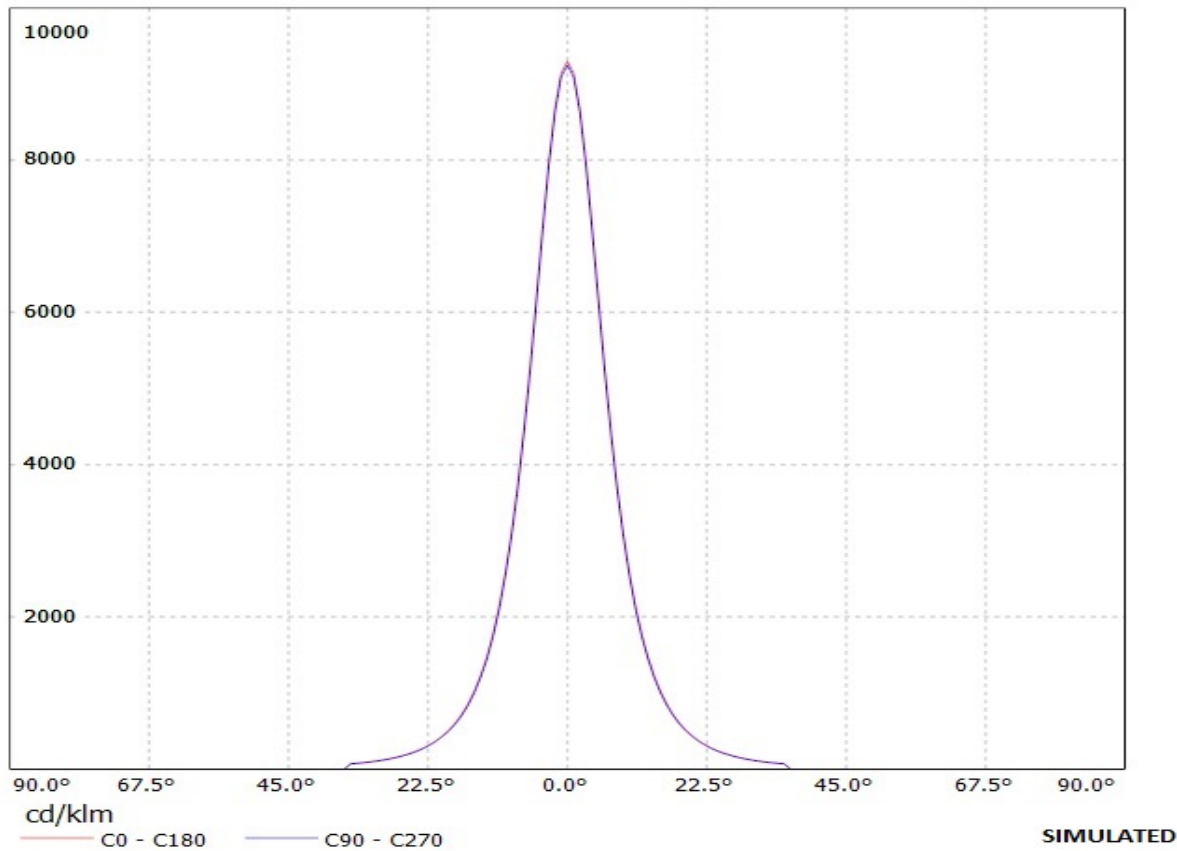
Ledil Oy CA11643_Laura-SS-XP CA11643_Laura-SS-XP / LDC (Linear)

Luminaire: Ledil Oy CA11643_Laura-SS-XP CA11643_Laura-SS-XP
Lamps: 1 x Cree XP-E(white)

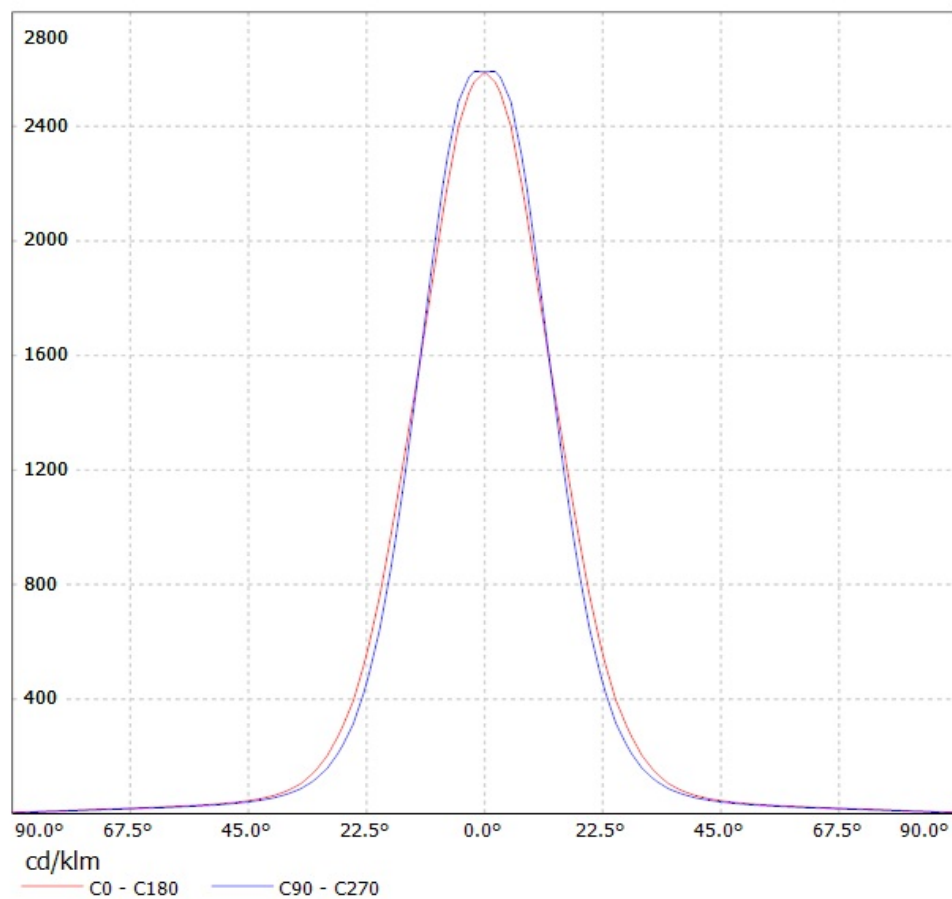


Ledil Oy CA11360_Laura-D-XP-tape CA11360_Laura-D-XP-tape / LDC (Linear)

Luminaire: Ledil Oy CA11360_Laura-D-XP-tape CA11360_Laura-D-XP-tape
Lamps: 1 x Cree XP-E (White)



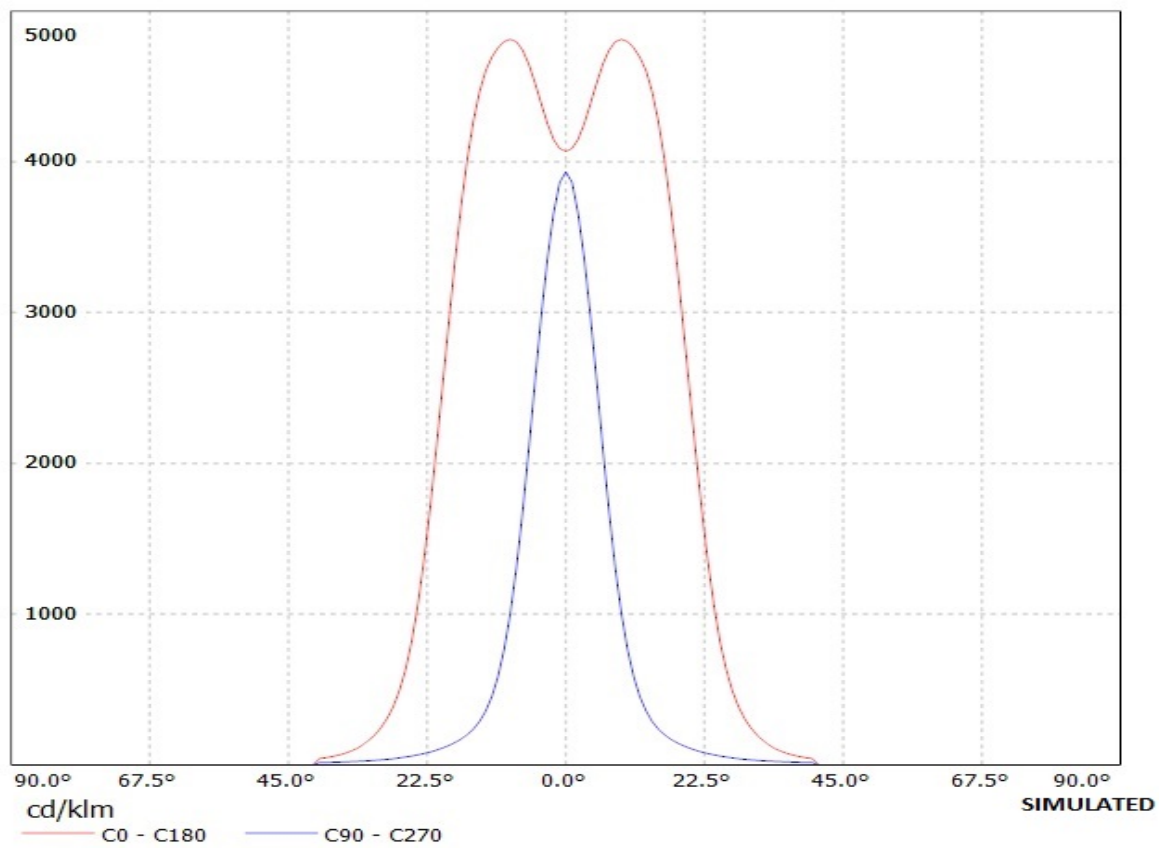
Luminaire: LEDIL OY CA11837_LAURA-M-PIN_(XP-E) Eff.91.8%
Lamps: 1 x XP-E (71.21lm@250mA)



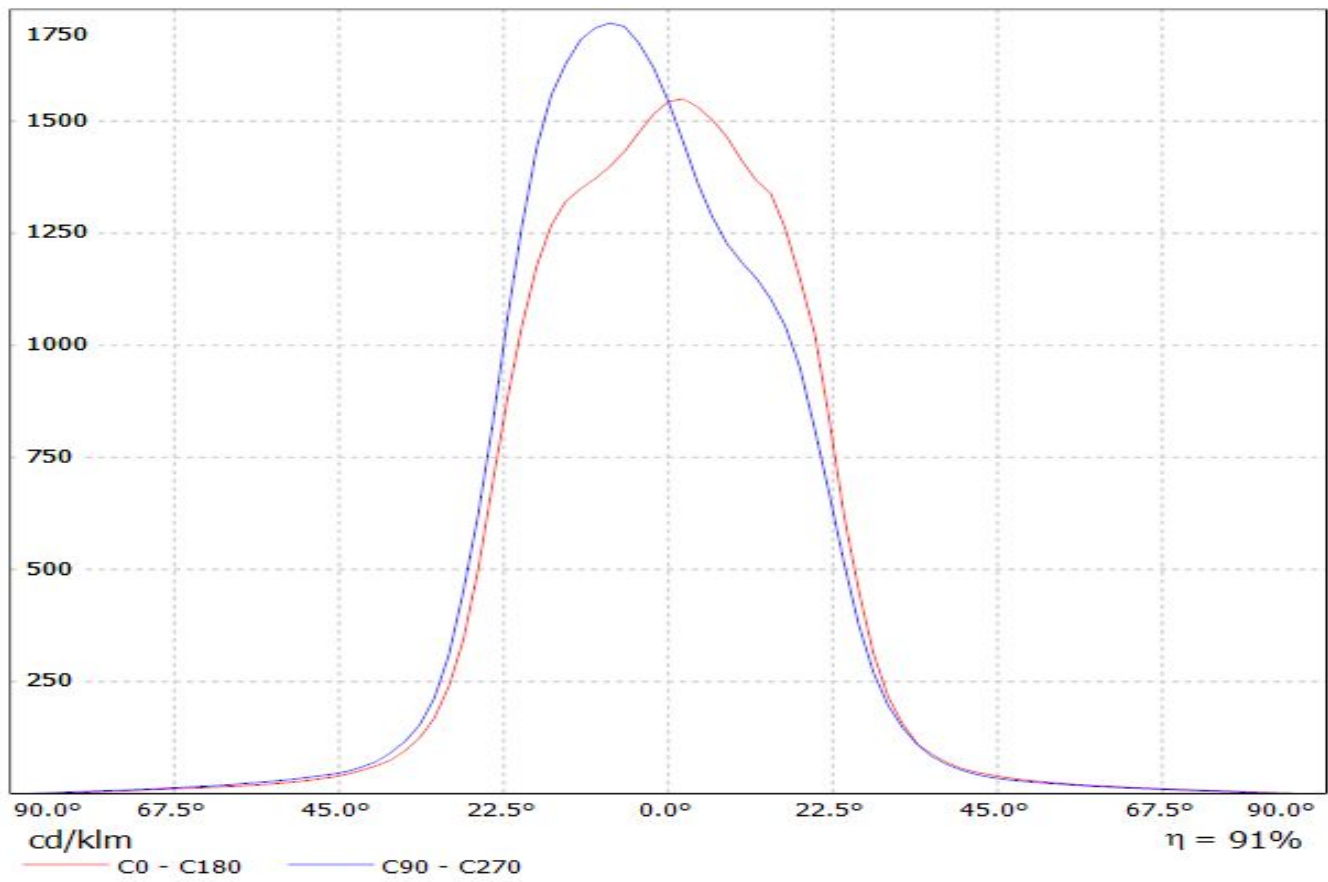
Ledil Oy CA11365-Laura-O-XP-tape CA11365-Laura-O-XP-tape / LDC (Linear)

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

Lamps: 1 x Cree XP-E white

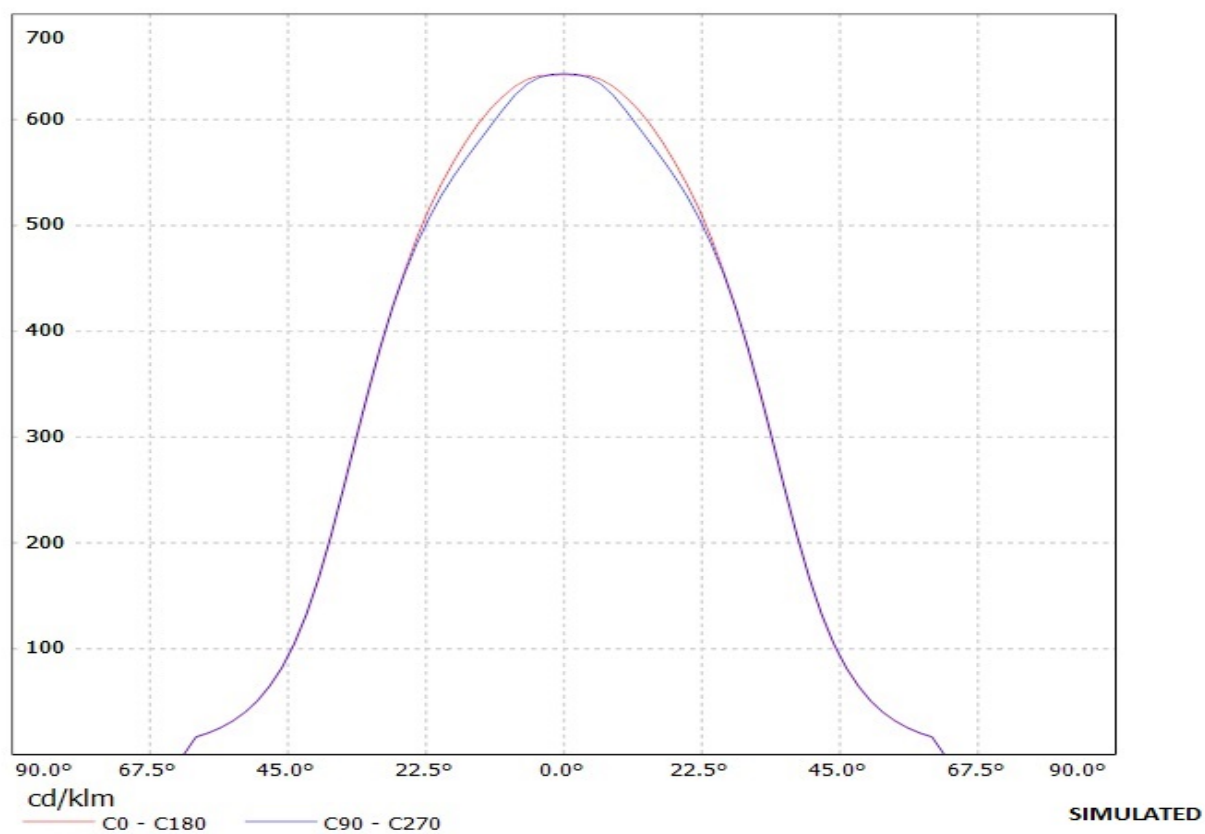


Luminaire: LEDiL CA12344_LAURA-W-PIN_(XP-E) Eff.92%
Lamps: 1 x Cree XP-E (69lm@250mA)



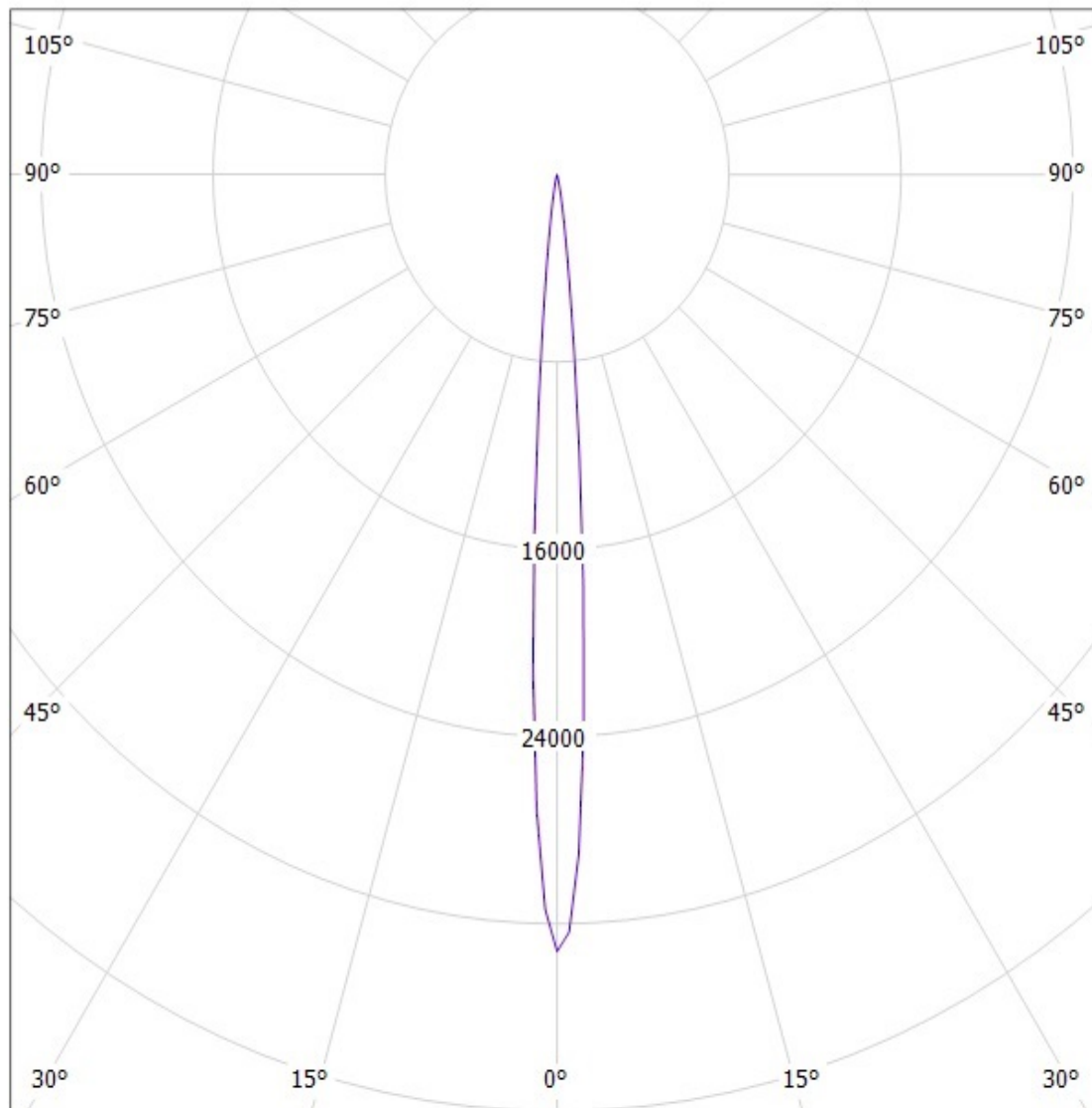
**Ledil Oy CA12325_Laura-WW-PIN-WHT CA12325_Laura-WW-PIN-WHT Efficiency=86% / LDC
(Linear)**

Luminaire: Ledil Oy CA12325_Laura-WW-PIN-WHT CA12325_Laura-WW-PIN-WHT Efficiency=86%
Lamps: 1 x Cree XP-E white 78lm @ 250mA



Ledil Laura-RS-Pin-XP Laura-RS-Pin-XP / LDC (Polar)

Luminaire: Ledil Laura-RS-Pin-XP Laura-RS-Pin-XP
Lamps: 1 x LED Module



cd/klm

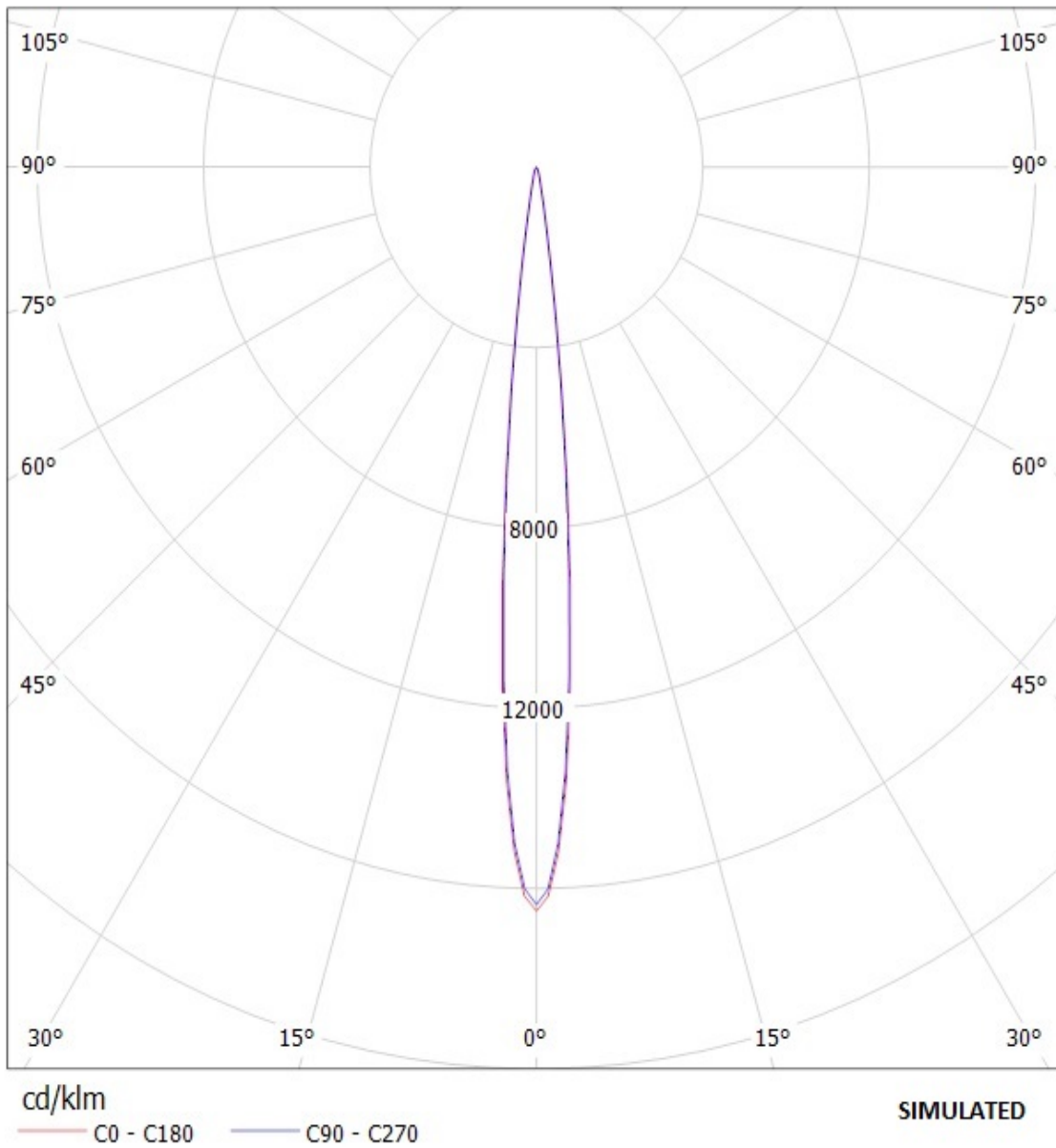
— C0 - C180 — C90 - C270

SIMULATED

Ledil Oy CA11643_Laura-SS-XP CA11643_Laura-SS-XP / LDC (Polar)

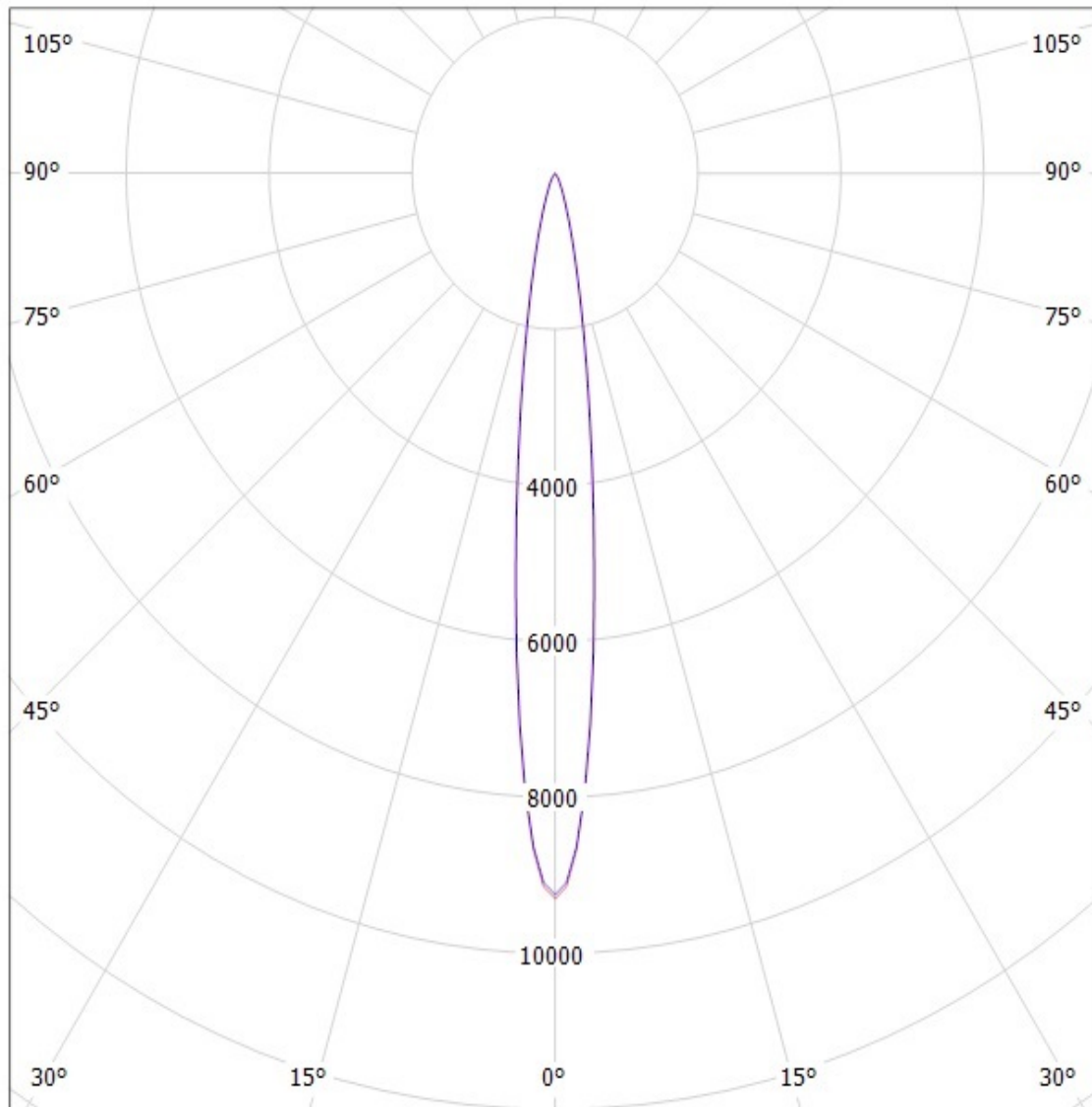
Luminaire: Ledil Oy CA11643_Laura-SS-XP CA11643_Laura-SS-XP

Lamps: 1 x Cree XP-E(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)

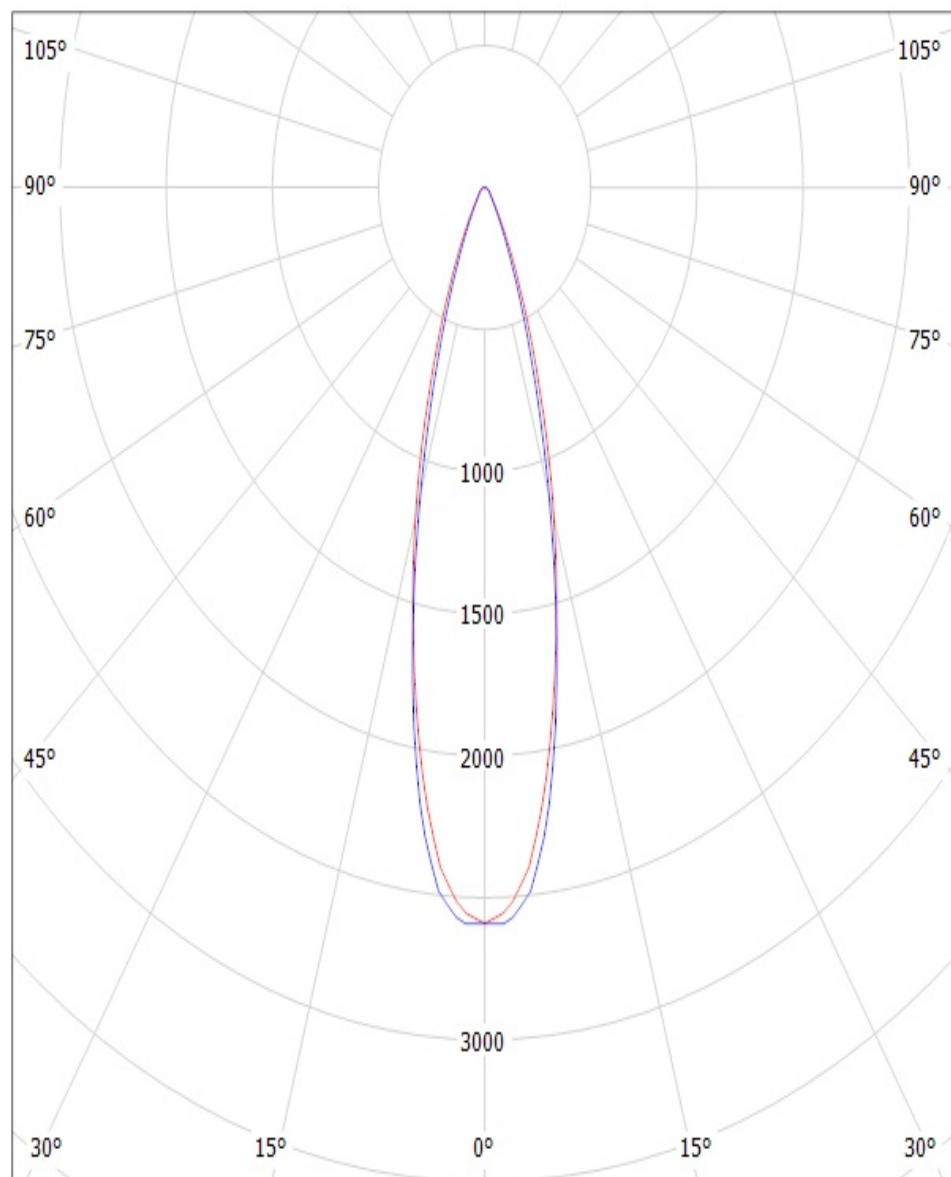


cd/klm

— C0 - C180 — C90 - C270

SIMULATED

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



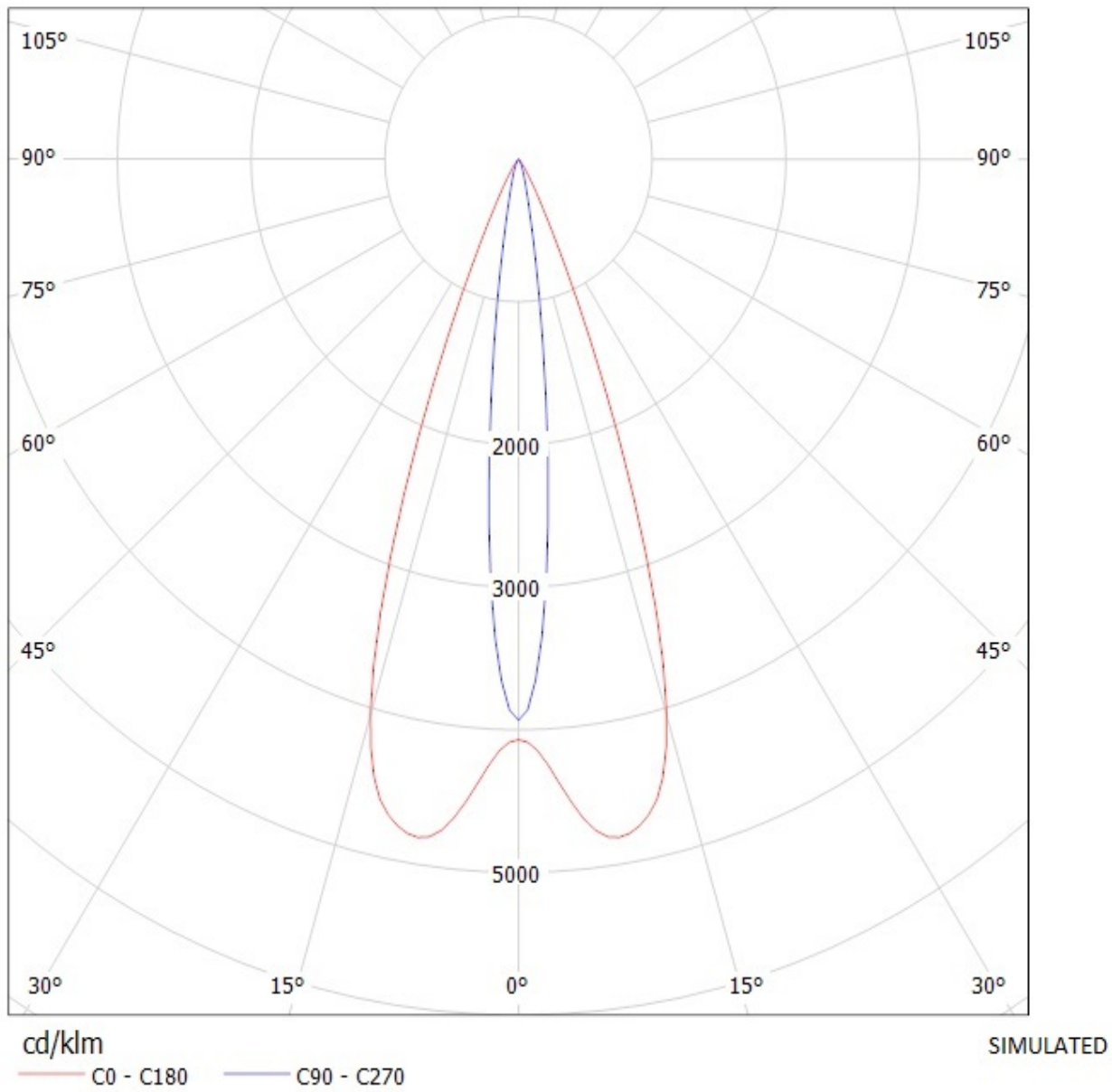
cd/klm

— C0 - C180

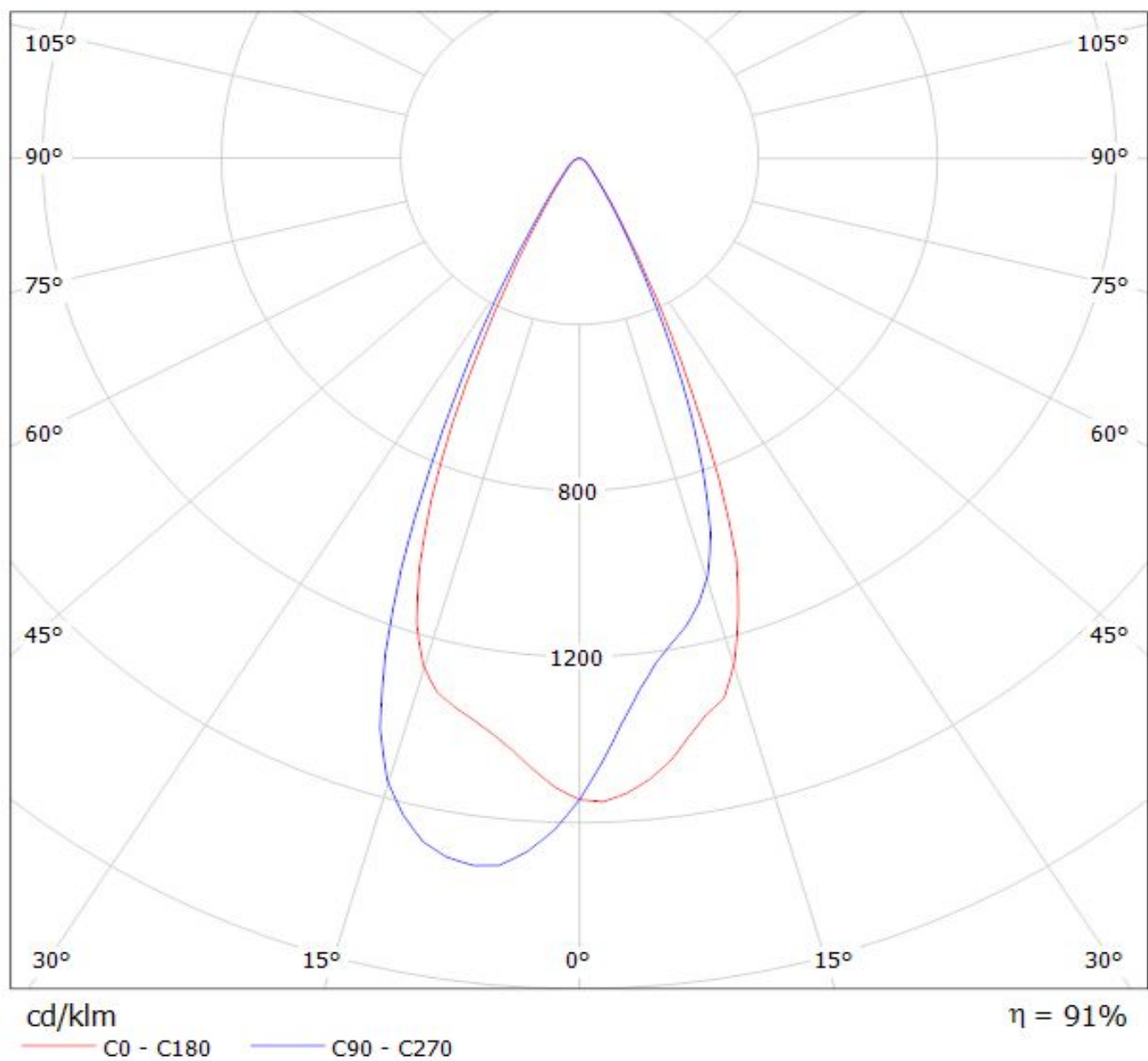
— C90 - C270

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

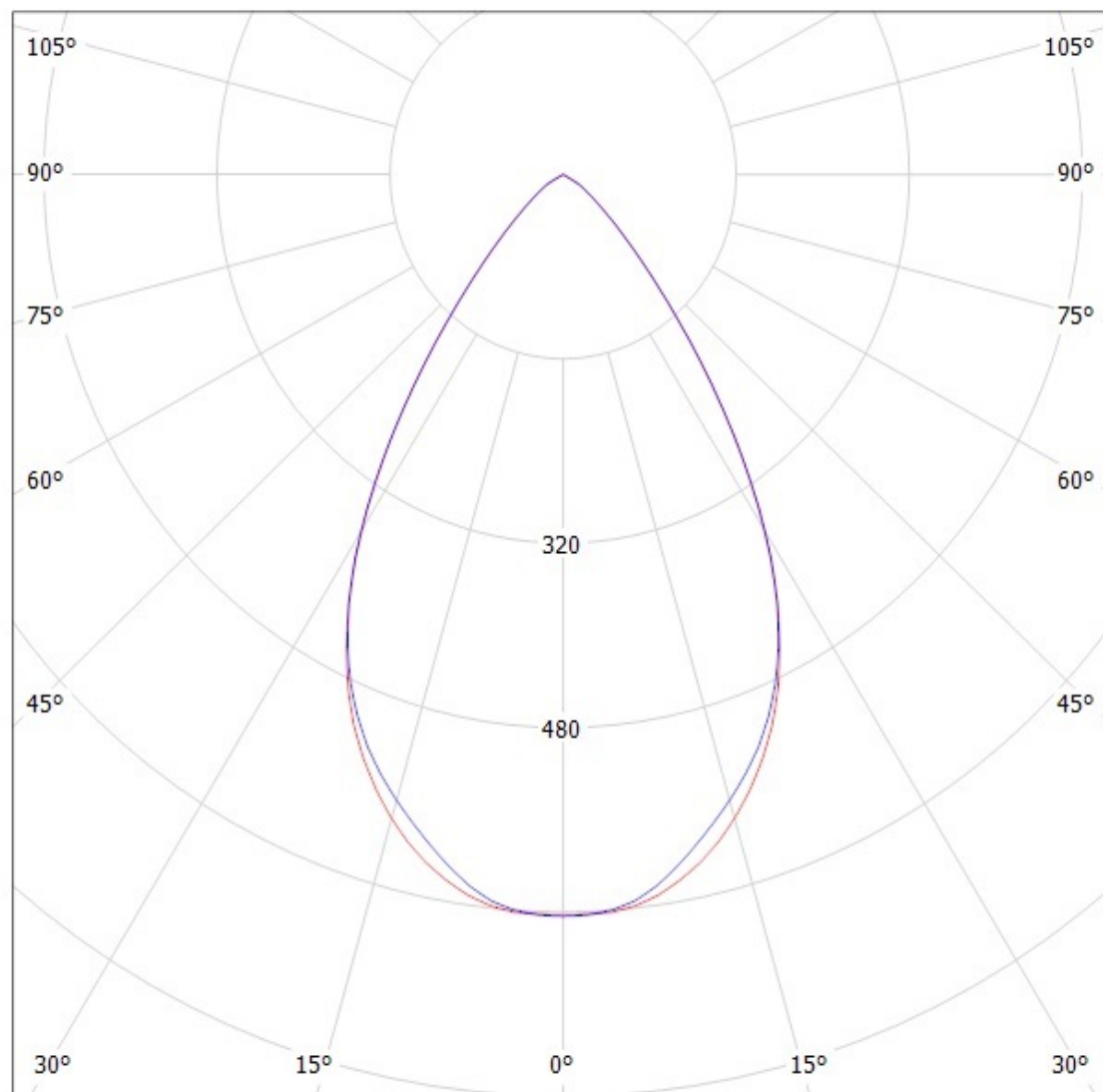


Luminaire: LEDiL CA12344_LAURA-W-PIN_(XP-E) Eff.92%
Lamps: 1 x Cree XP-E (69lm@250mA)



**Ledil Oy CA12325_Laura-WW-PIN-WHT CA12325_Laura-WW-PIN-WHT Efficiency=86% / LDC
(Polar)**

Luminaire: Ledil Oy CA12325_Laura-WW-PIN-WHT CA12325_Laura-WW-PIN-WHT Efficiency=86%
Lamps: 1 x Cree XP-E white 78lm @ 250mA



cd/klm

— C0 - C180 — C90 - C270

SIMULATED