

**Ordering number CA11016_TINA2-RS**

Family	Tina2	FWHM	15 degrees
Type	Assembly	Efficiency	93 %
LED	XP-G	cd/Im	9.000
Color	Black	Gerber File	Available
Diameter	16.1 mm		
Height	9.7 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	PC		
Fastening	Tape		
Status	On production		

**Ordering number CP12677_TINA2-RS**

Family	Tina2	FWHM	15 degrees
Type	Assembly	Efficiency	93 %
LED	XP-G	cd/Im	9.000
Color	Black	Gerber File	Available
Diameter	16.1 mm		
Height	9.65 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	PC		
Fastening	Glue		
Status	On production		

**Ordering number CP12678_TINA2-D**

Family	Tina2	FWHM	16 degrees
Type	Assembly	Efficiency	91 %
LED	XP-G	cd/Im	7.000
Color	Black	Gerber File	Available
Diameter	16.1 mm		
Height	9.65 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	PC		
Fastening	Glue		
Status	On production		

**Ordering number CA11420_TINA2-D**

Family	Tina2	FWHM	17 degrees
Type	Assembly	Efficiency	91 %
LED	XP-G	cd/Im	5.520
Color	Black	Gerber File	Available
Diameter	16.1 mm		
Height	9.66 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	PC		
Fastening	Tape		
Status	On production		

**Ordering number CA11017_TINA2-M**

Family	Tina2	FWHM	30 degrees
Type	Assembly	Efficiency	88 %
LED	XP-G	cd/Im	2.800
Color	Black	Gerber File	Available
Diameter	16.1 mm		
Height	9.7 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	PC		
Fastening	Tape		
Status	On production		

**Ordering number CP12679_TINA2-M**

Family	Tina2	FWHM	30 degrees
Type	Assembly	Efficiency	88 %
LED	XP-G	cd/Im	2.800
Color	Black	Gerber File	Available
Diameter	16.1 mm		
Height	9.65 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	PC		
Fastening	Glue		
Status	On production		

**Ordering number CA11052_TINA2-O**

Family	Tina2	FWHM	35+16 degrees
Type	Assembly	Efficiency	87 %
LED	XP-G	cd/Im	3.900
Color	Black	Gerber File	Available
Diameter	16.1 mm		
Height	9.7 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	PC		
Fastening	Tape		
Status	On production		

**Ordering number CP12680_TINA2-O**

Family	Tina2	FWHM	35+16 degrees
Type	Assembly	Efficiency	87 %
LED	XP-G	cd/Im	3.900
Color	Black	Gerber File	Available
Diameter	16.1 mm		
Height	9.82 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	PC		
Fastening	Glue		
Status	On production		

**Ordering number CA12056_TINA2-W**

Family	Tina2	FWHM	57 degrees
Type	Assembly	Efficiency	88 %
LED	XP-G	cd/Im	1.000
Color	Black	Gerber File	Available
Diameter	16.1 mm		
Height	9.7 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	PC		
Fastening	Tape		
Status	On production		

**Ordering number CP12681_TINA2-W**

Family	Tina2	FWHM	57 degrees
Type	Assembly	Efficiency	88 %
LED	XP-G	cd/Im	(simulated) 0.000
Color	Black	Gerber File	Available
Diameter	16.1 mm		
Height	9.65 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	PC		
Fastening	Glue		
Status	On production		

**Ordering number C13253_TINA2-R-CLIP16**

Family	Tina2	FWHM	77 degrees
Type	Reflector	Efficiency	90 %
LED	XP-G	cd/Im	0.506
Color	Clear	Gerber File	Available
Diameter	16.1 mm		
Height	10.1 mm		
Style	Round		
Optic Material	PC		
Holder Material	-		
Fastening	Clips		
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

Tina2 series

last update 18/2/2013

GENERAL INFORMATION

- Product series especially designed & optimized for XP-G 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:

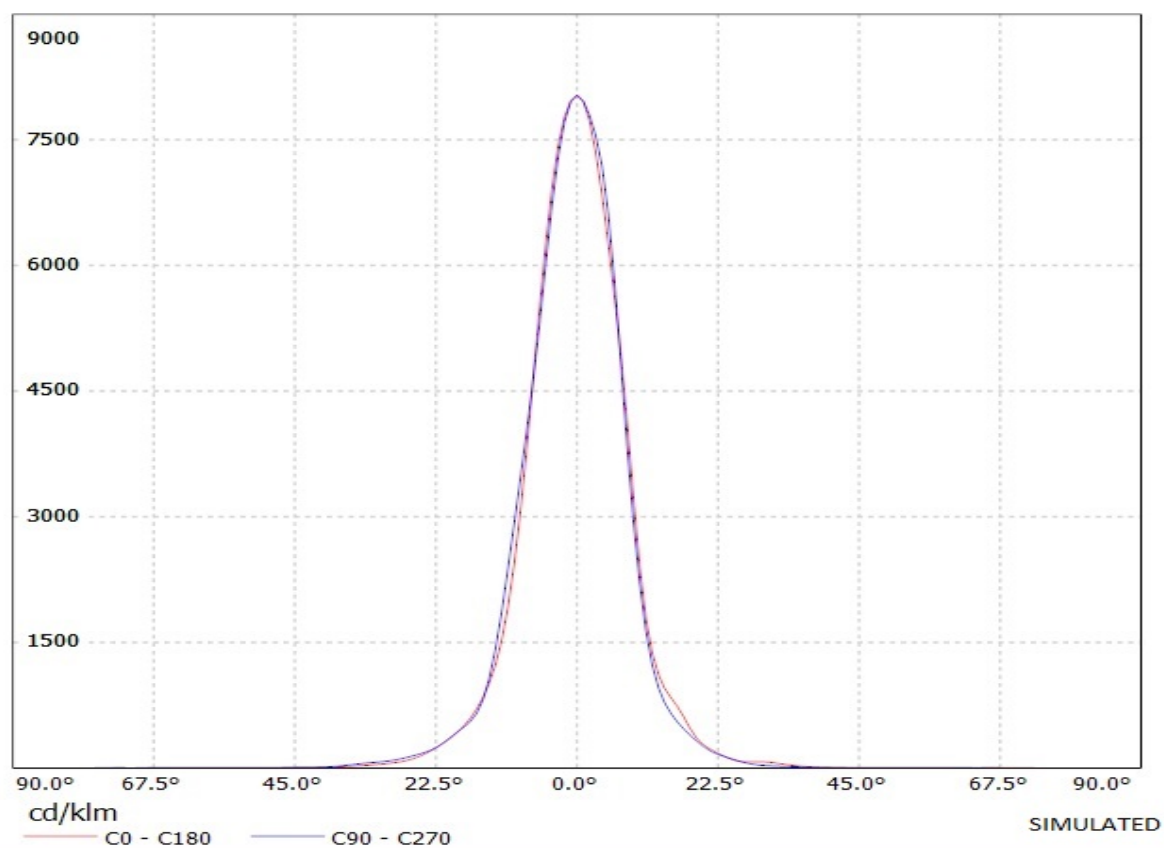
http://ledil.fi/sites/default/files/Documents/Technical/Material/PC%20Makrolon%202400_2407_2456_2458-UL.pdf

- 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).

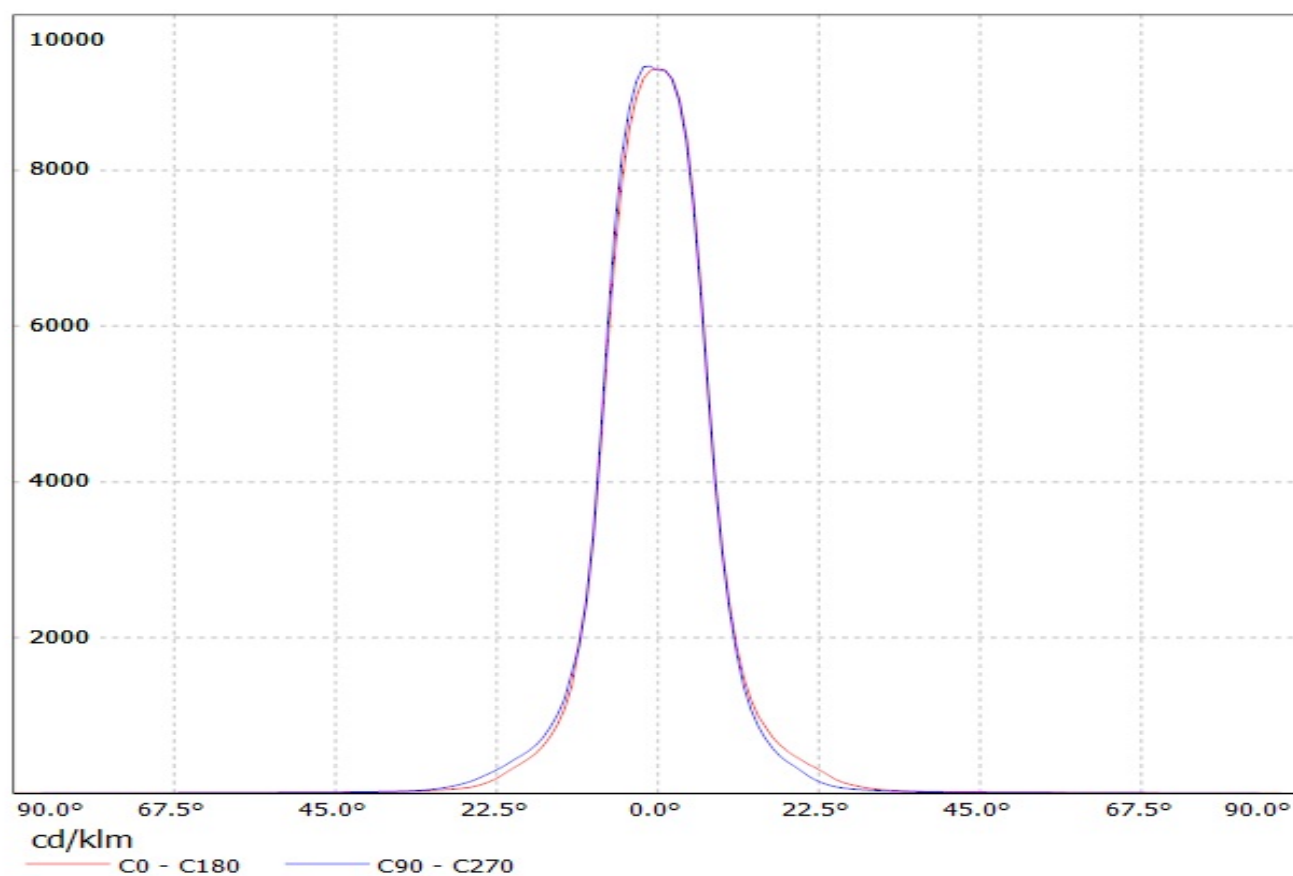
Ledil Oy CA11016_Tina2-XP-G-RS-black LOR=95% / LDC (Linear)

Luminaire: Ledil Oy CA11016_Tina2-XP-G-RS-black LOR=95%

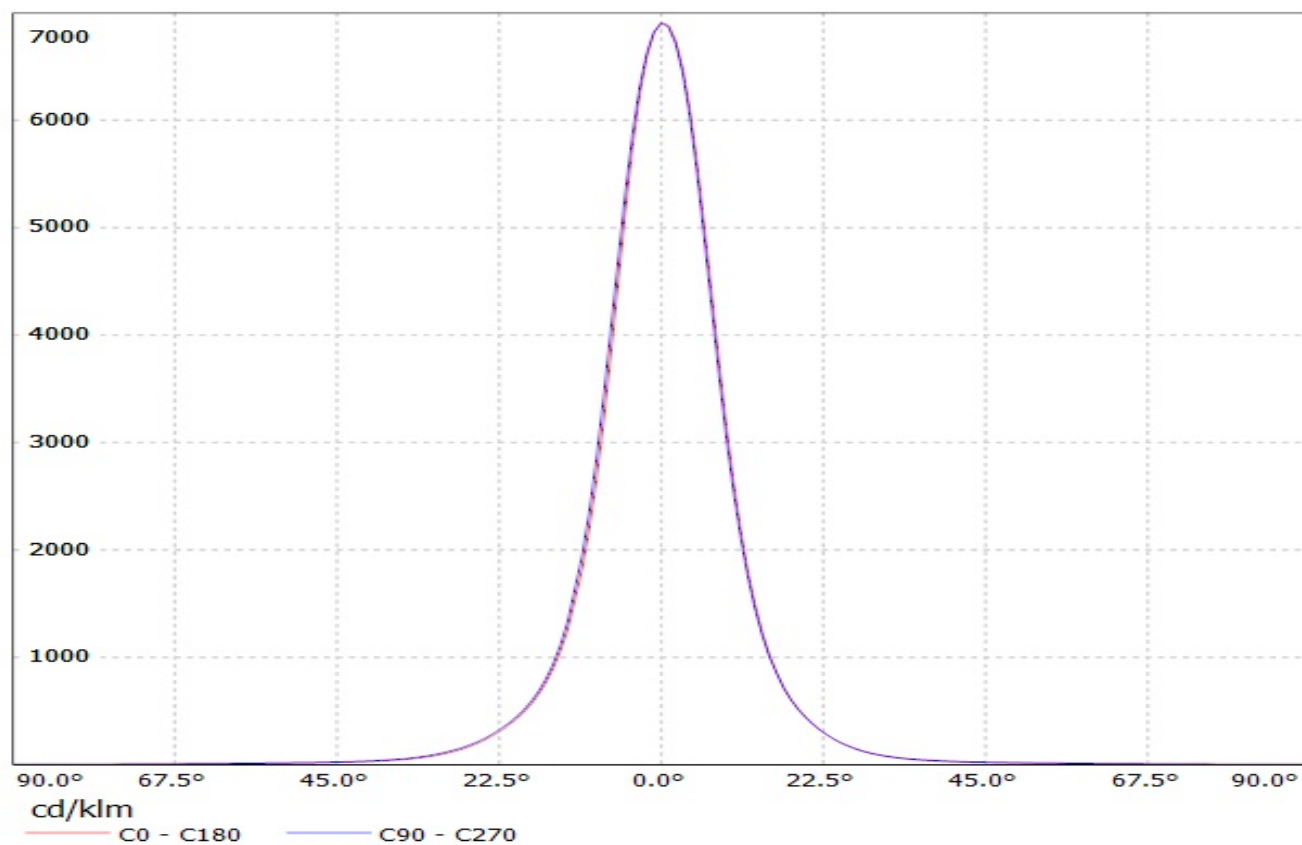
Lamps: 1 x Cree XP-G 250mA 89lm



Luminaire: LEDIL OY CP12677_TINA2-RS (XP-G) Efficiency=92%
Lamps: 1 x Cree XP-G (92lm@250mA)

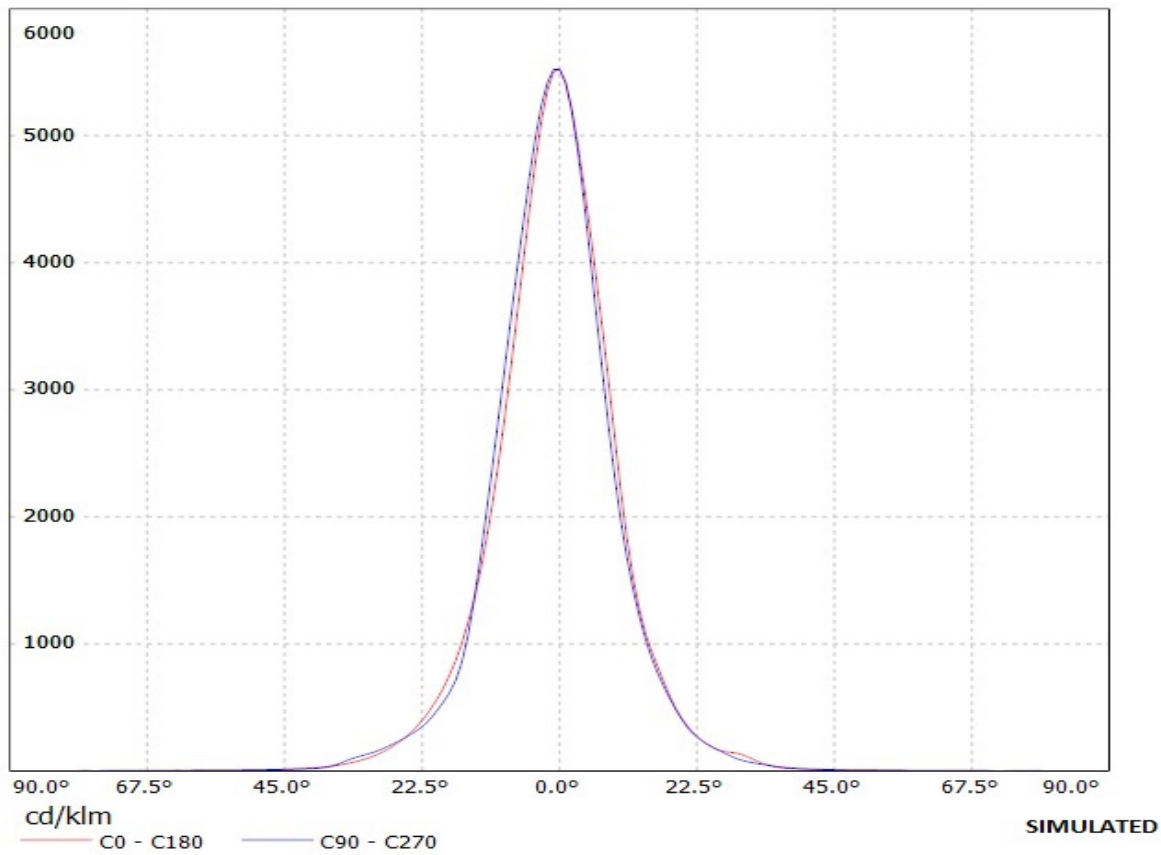


Luminaire: LEDIL OY CP12678_TINA2-D (XP-G) Efficiency=91%
Lamps: 1 x Cree XP-G (92lm@250mA)

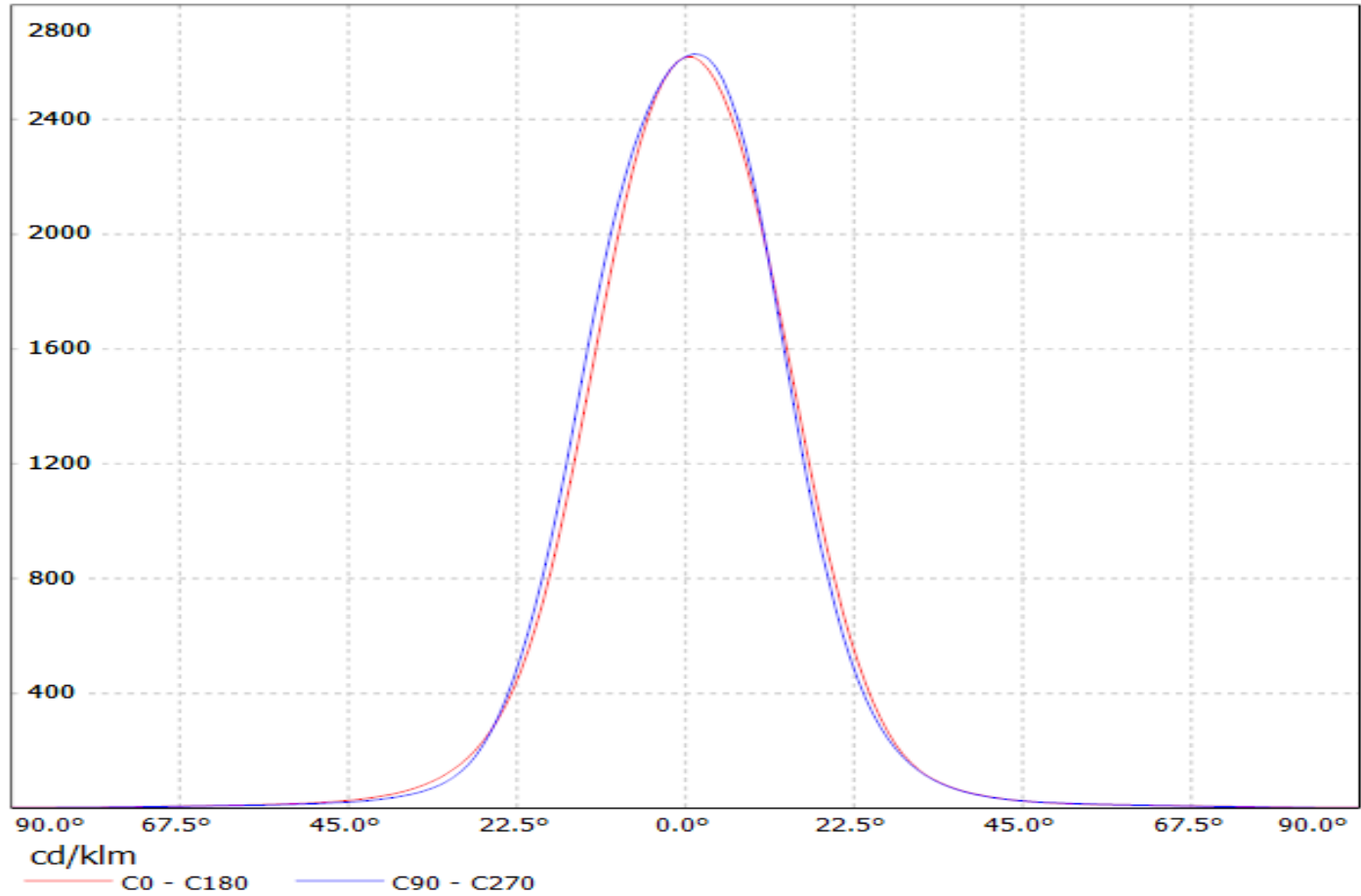


Ledil Oy CA11420_Tina2-XP-G-D-black LOR=95% / LDC (Linear)

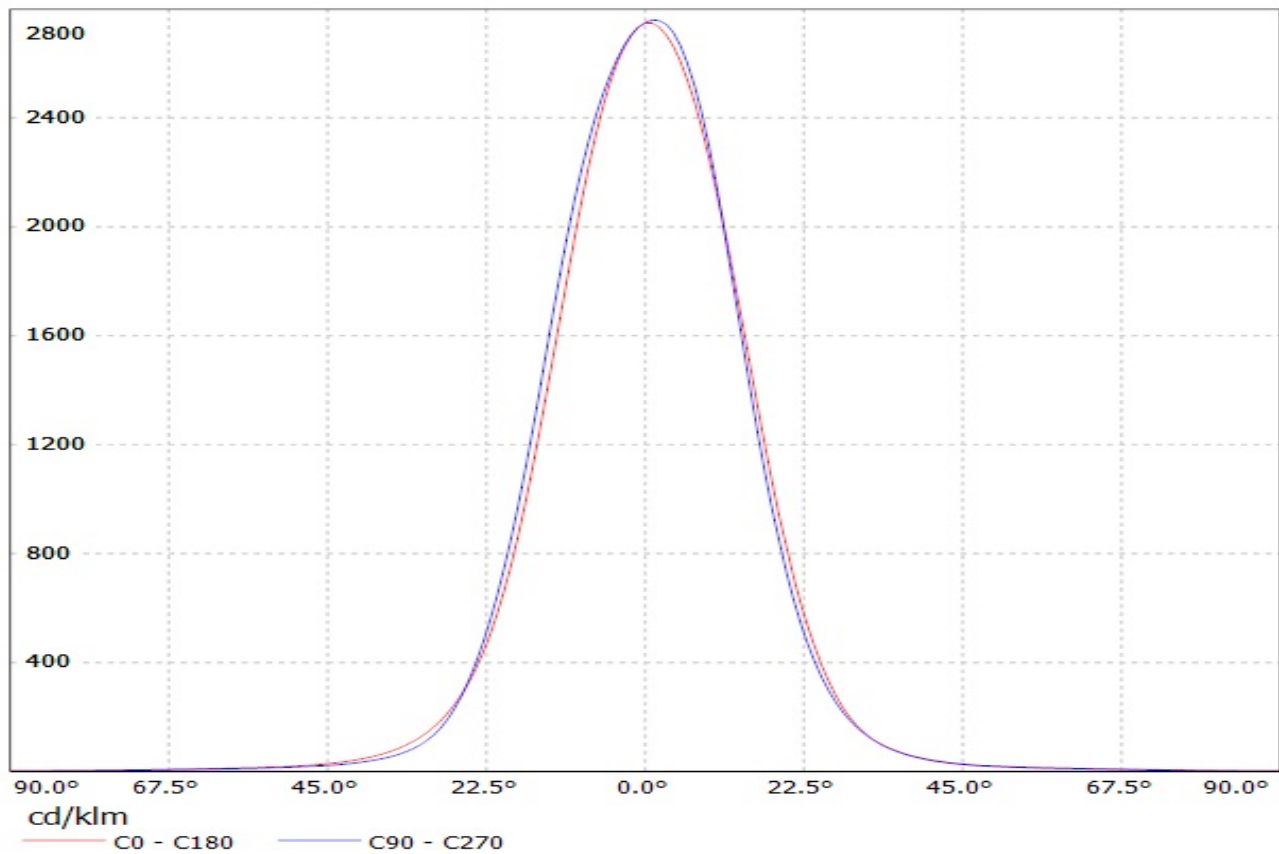
Luminaire: Ledil Oy CA11420_Tina2-XP-G-D-black LOR=95%
Lamps: 1 x Cree XP-G 89lm 250mA



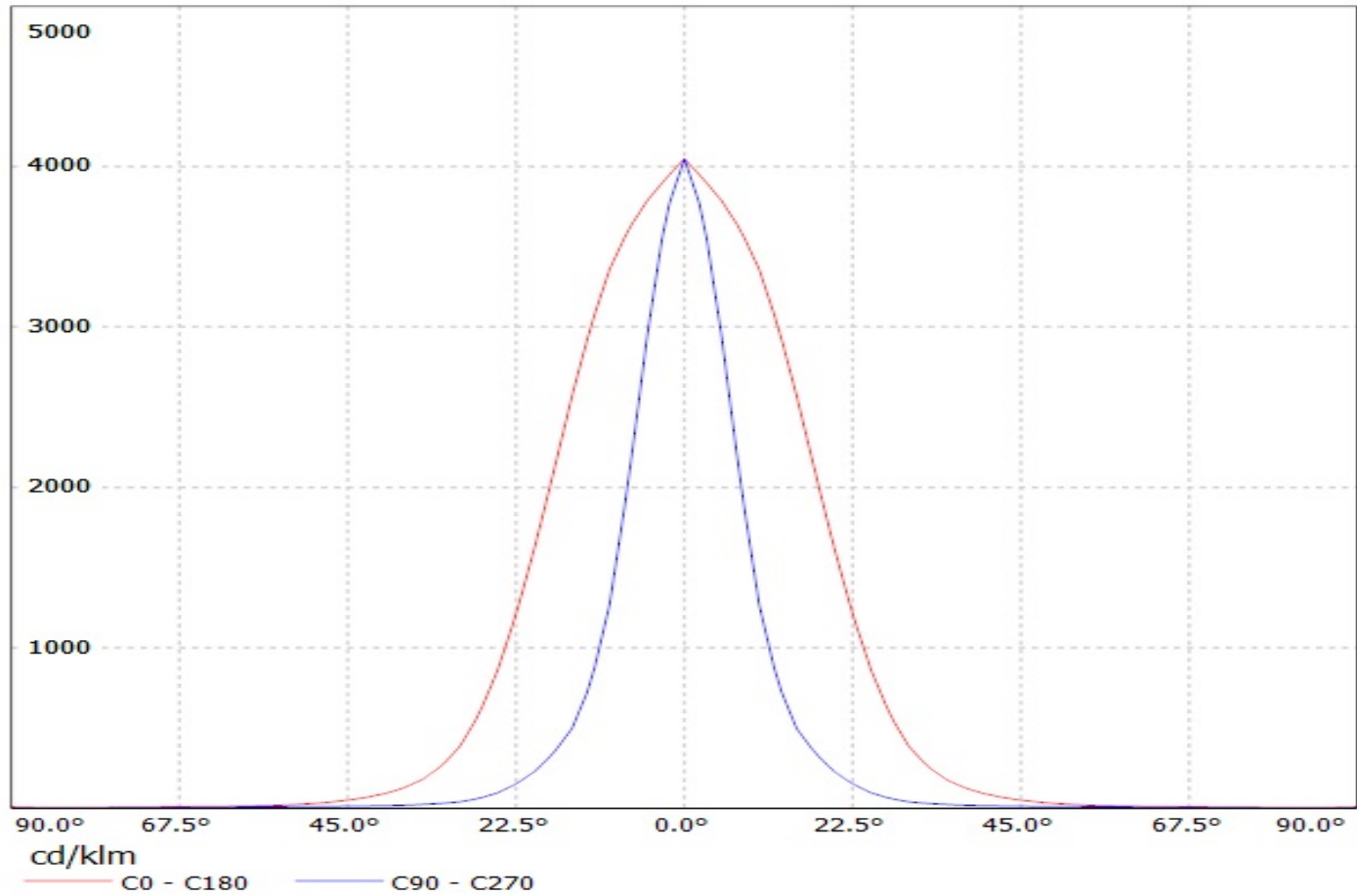
Luminaire: LEDIL OY CA11017_TINA2-M (XP-G) Efficiency=91%
Lamps: 1 x Cree XP-G (92lm@250mA)



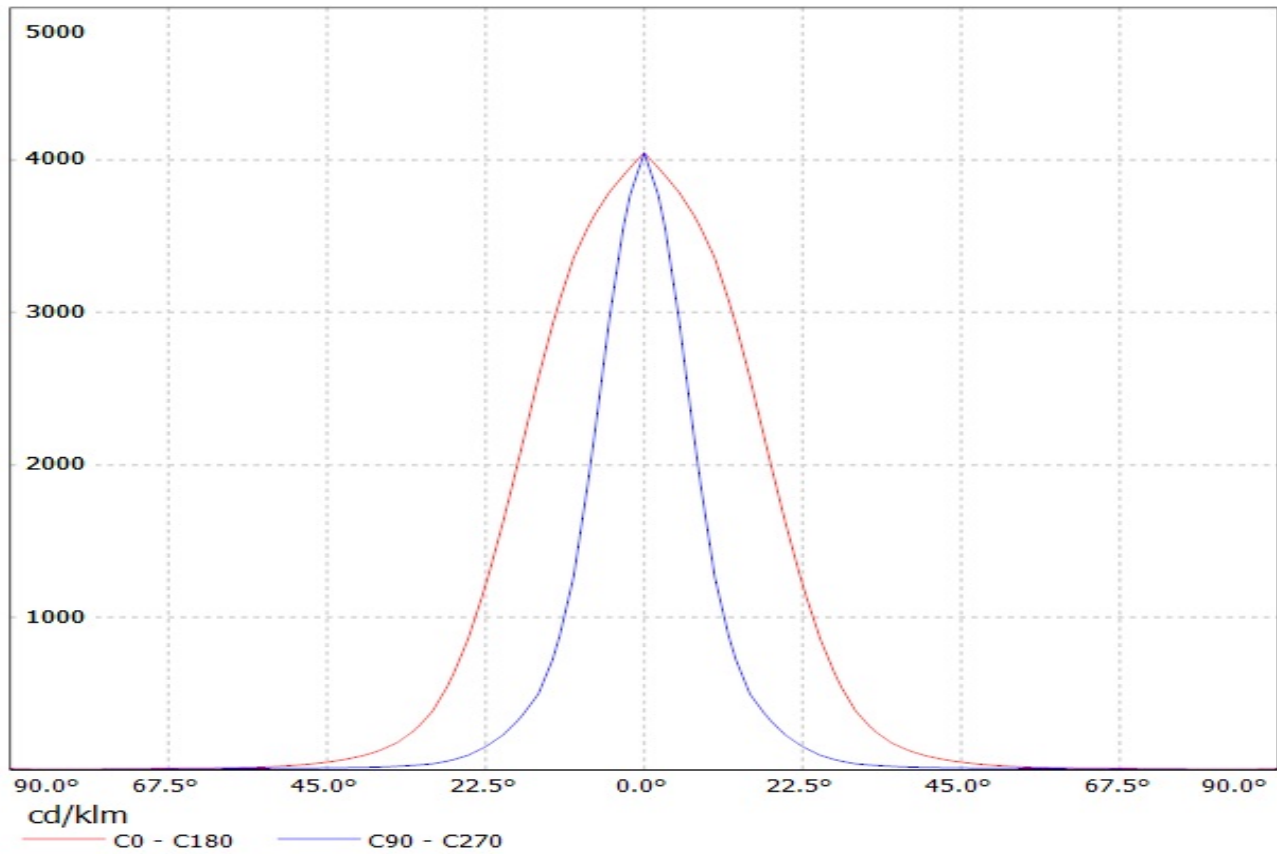
Luminaire: LEDIL OY CP12679_TINA2-M (XP-G) Efficiency=87%
Lamps: 1 x Cree XP-G (92lm@250mA)



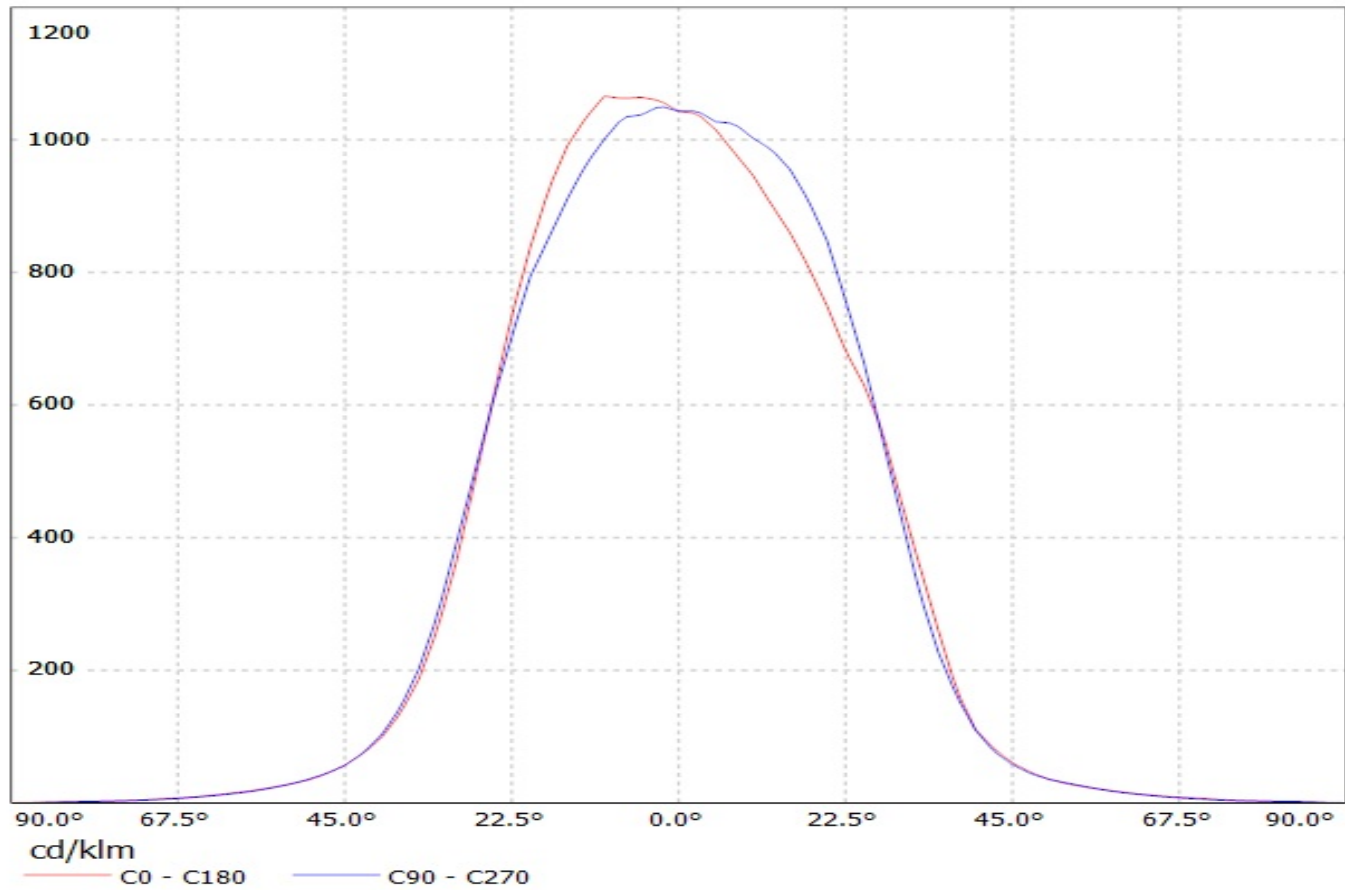
Luminaire: LEDIL OY CA11052_Tina2-O (XP-G) Efficiency=87%
Lamps: 1 x Cree XP-G (92lm@250mA)



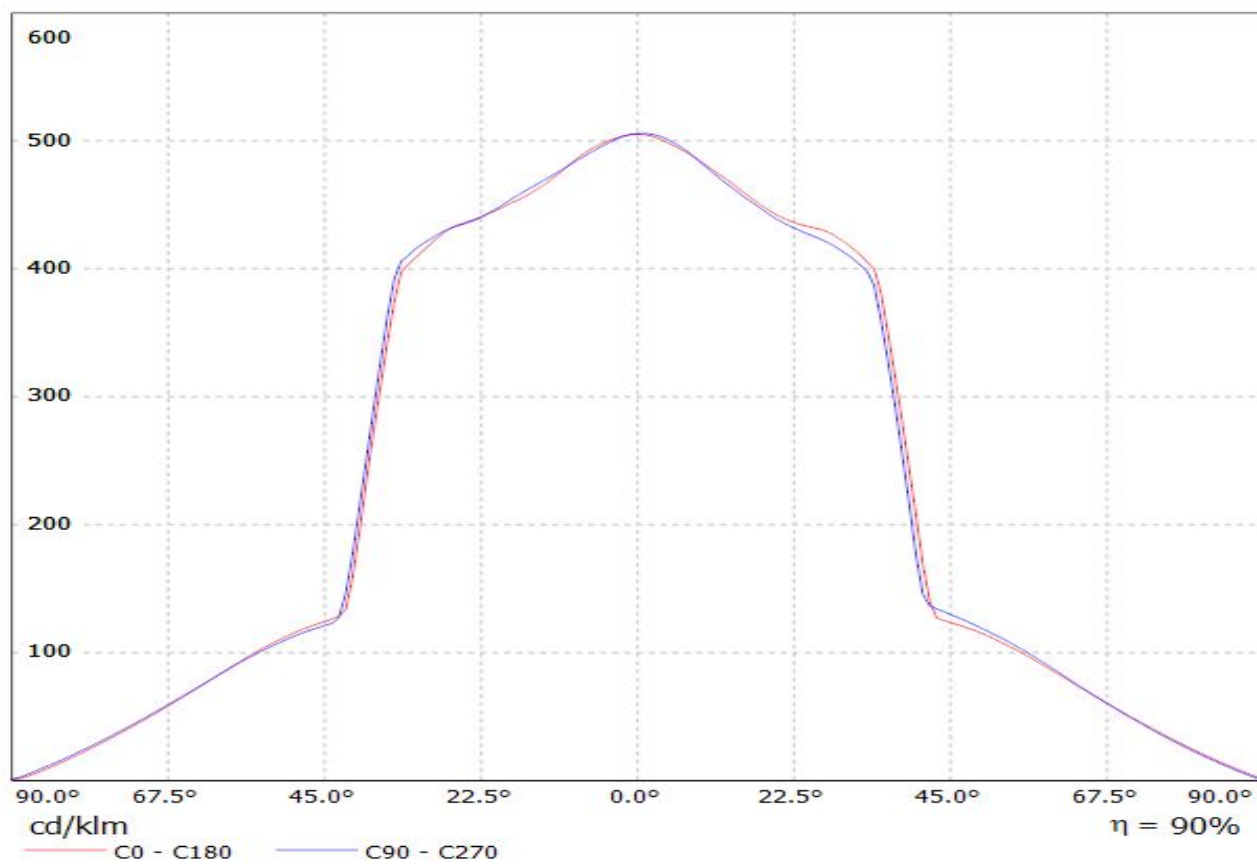
Luminaire: LEDIL OY CP12680_TINA2-O (XP-G) Efficiency=87%
Lamps: 1 x Cree XP-G (92lm@250mA)



Luminaire: Ledil Oy CA12056_TINA2-W (Cree XP-G 92lm @ 250mA) Efficiency=88%
Lamps: 1 x Cree XP-G 92lm @ 250mA



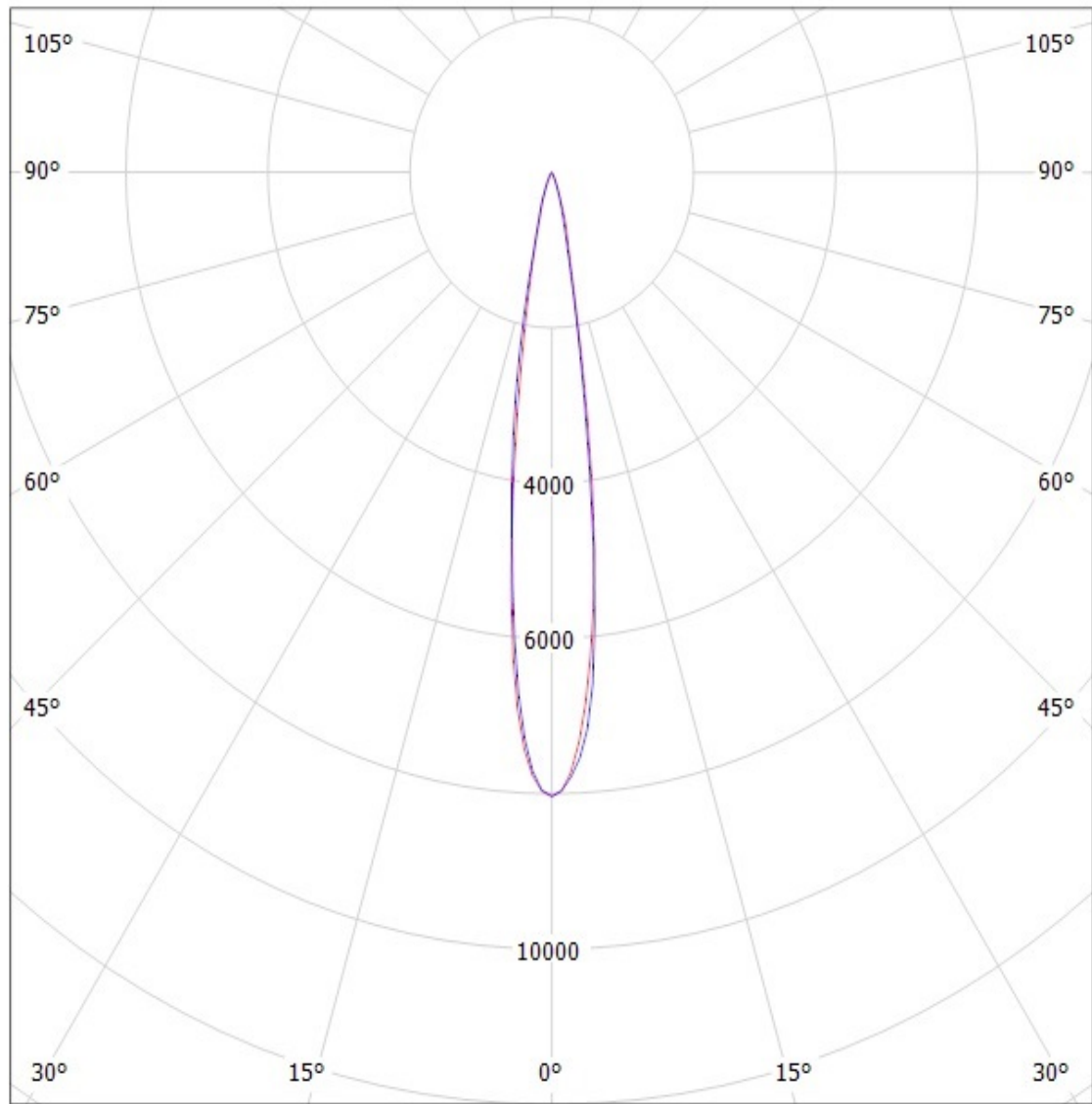
Luminaire: LEDiL Oy C13253_TINA2-R-CLIP16_(XP-G) Eff. 90,1%
Lamps: 1 x Cree XP-G (66lm@250mA)



Ledil Oy CA11016_Tina2-XP-G-RS-black LOR=95% / LDC (Polar)

Luminaire: Ledil Oy CA11016_Tina2-XP-G-RS-black LOR=95%

Lamps: 1 x Cree XP-G 250mA 89lm

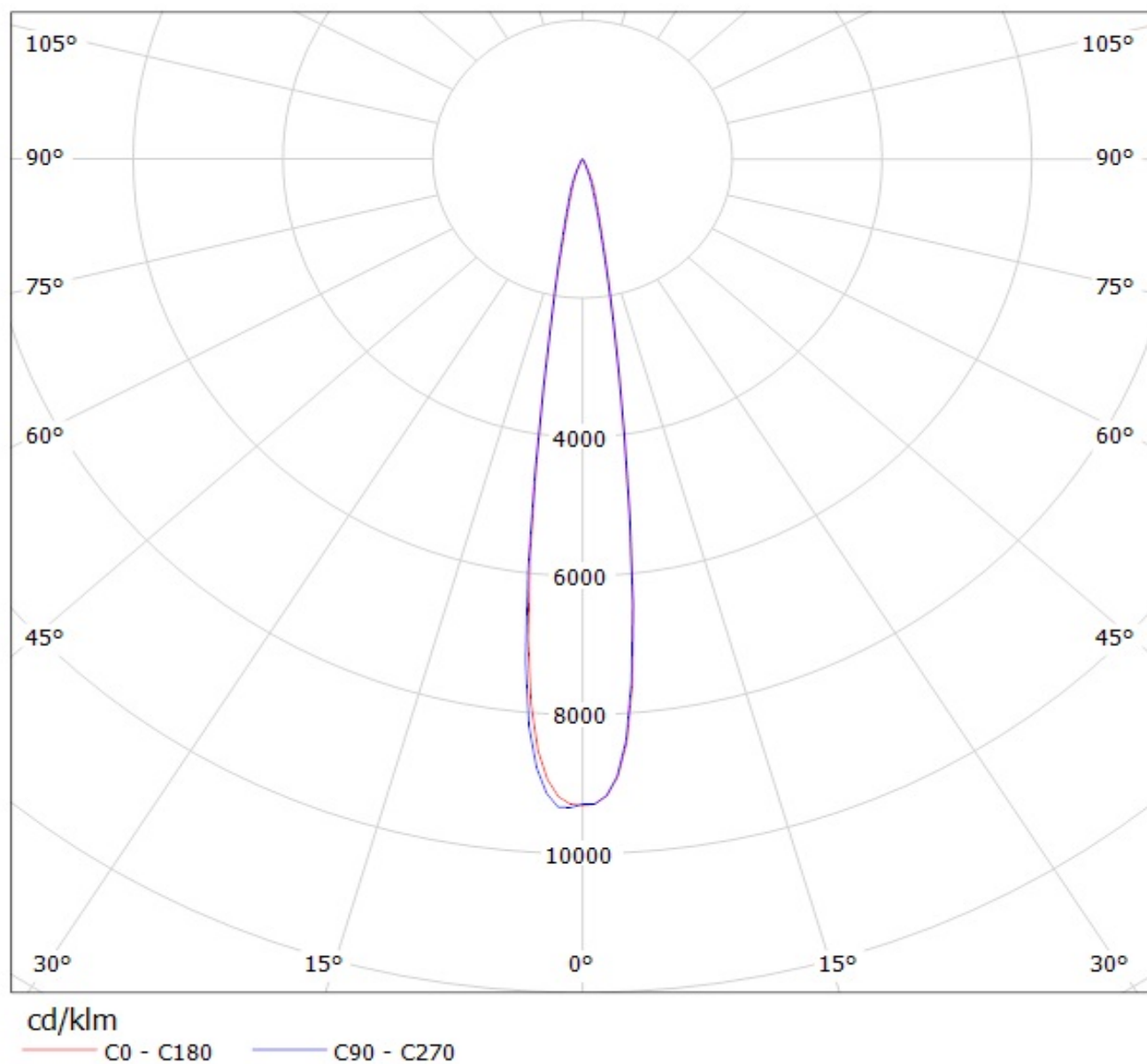


cd/klm

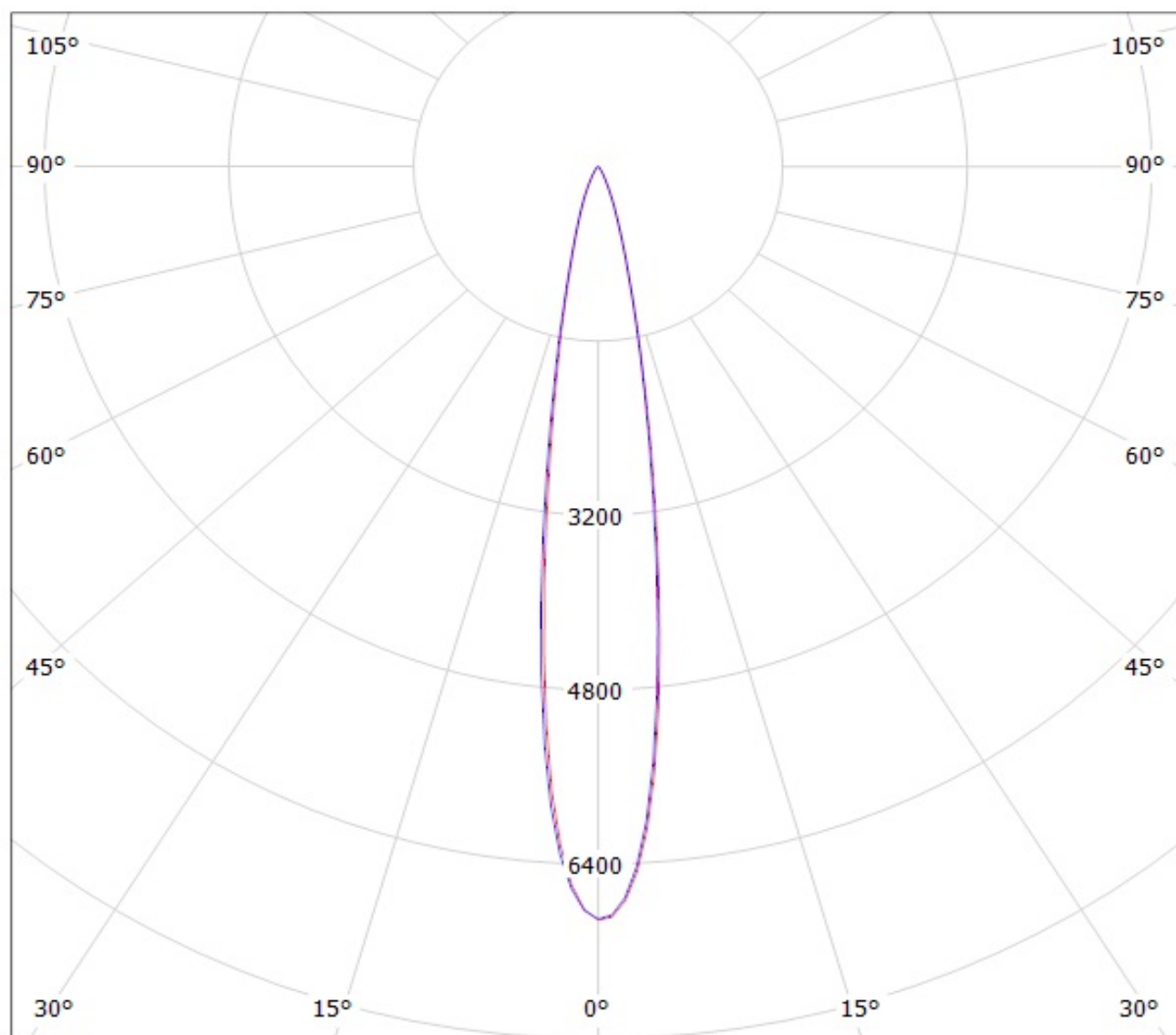
— C0 - C180 — C90 - C270

SIMULATED

Luminaire: LEDIL OY CP12677_TINA2-RS (XP-G) Efficiency=92%
Lamps: 1 x Cree XP-G (92lm@250mA)



Luminaire: LEDIL OY CP12678_TINA2-D (XP-G) Efficiency=91%
Lamps: 1 x Cree XP-G (92lm@250mA)



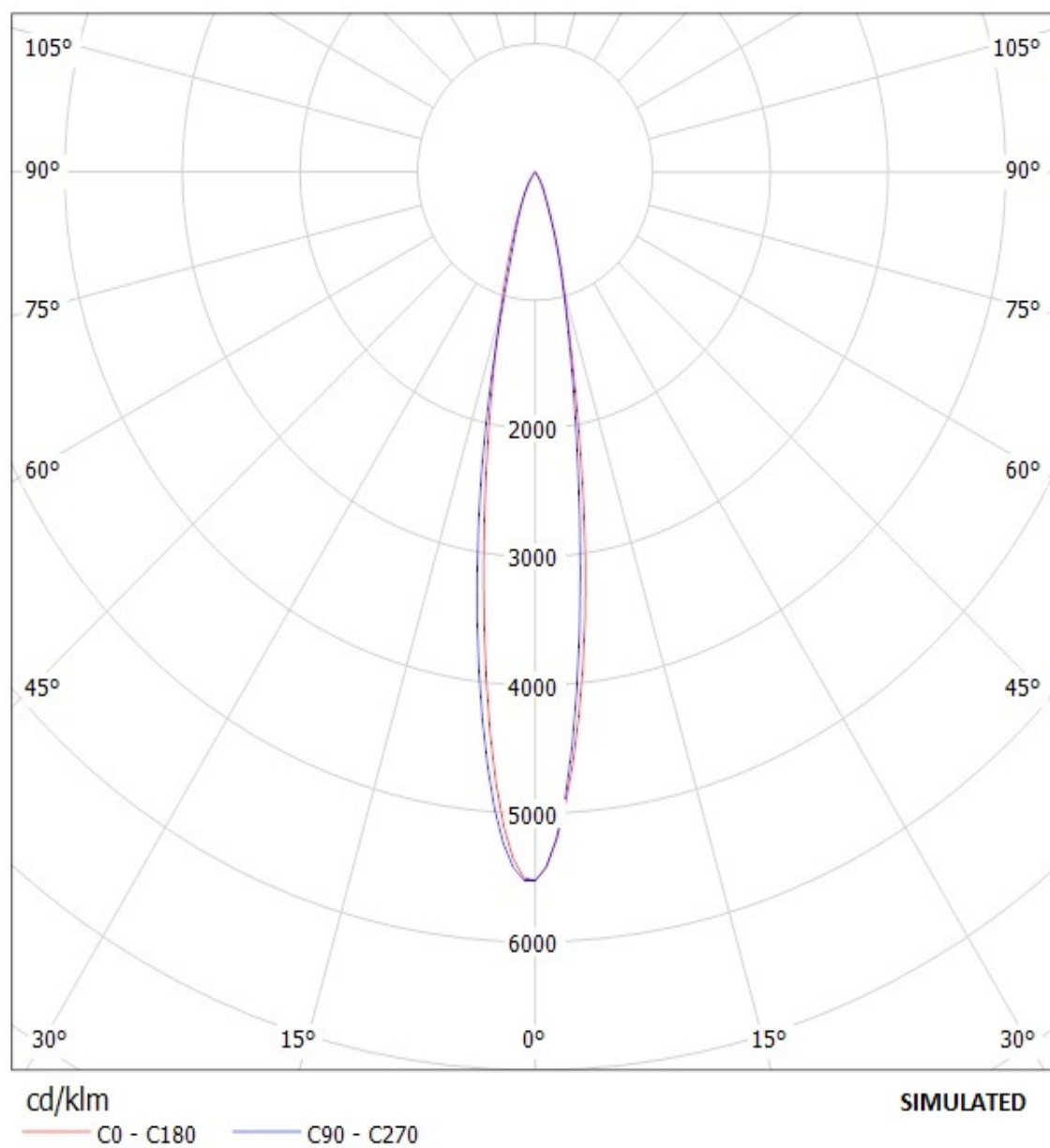
cd/klm

— C0 - C180 — C90 - C270

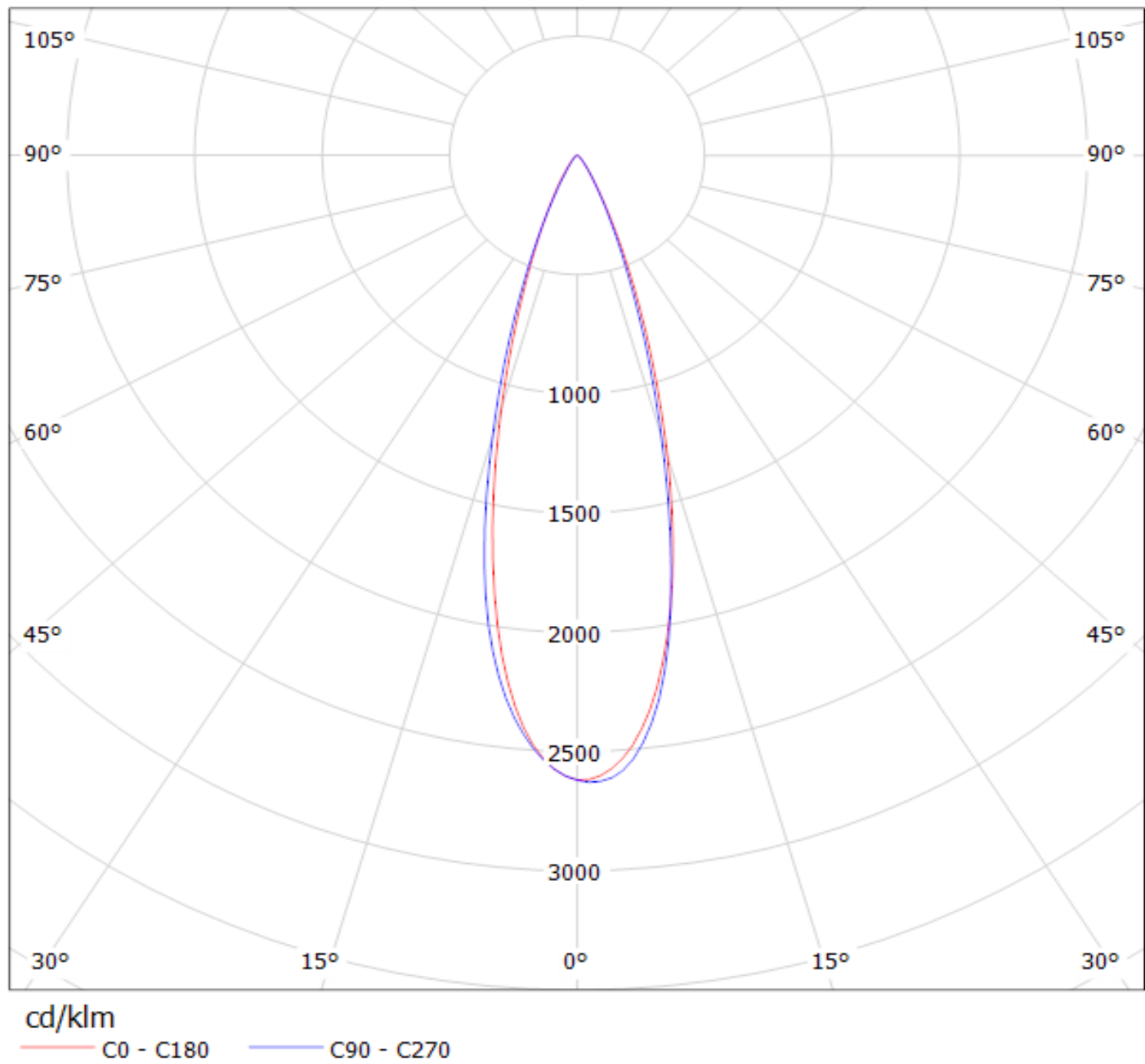
Ledil Oy CA11420_Tina2-XP-G-D-black LOR=95% / LDC (Polar)

Luminaire: Ledil Oy CA11420_Tina2-XP-G-D-black LOR=95%

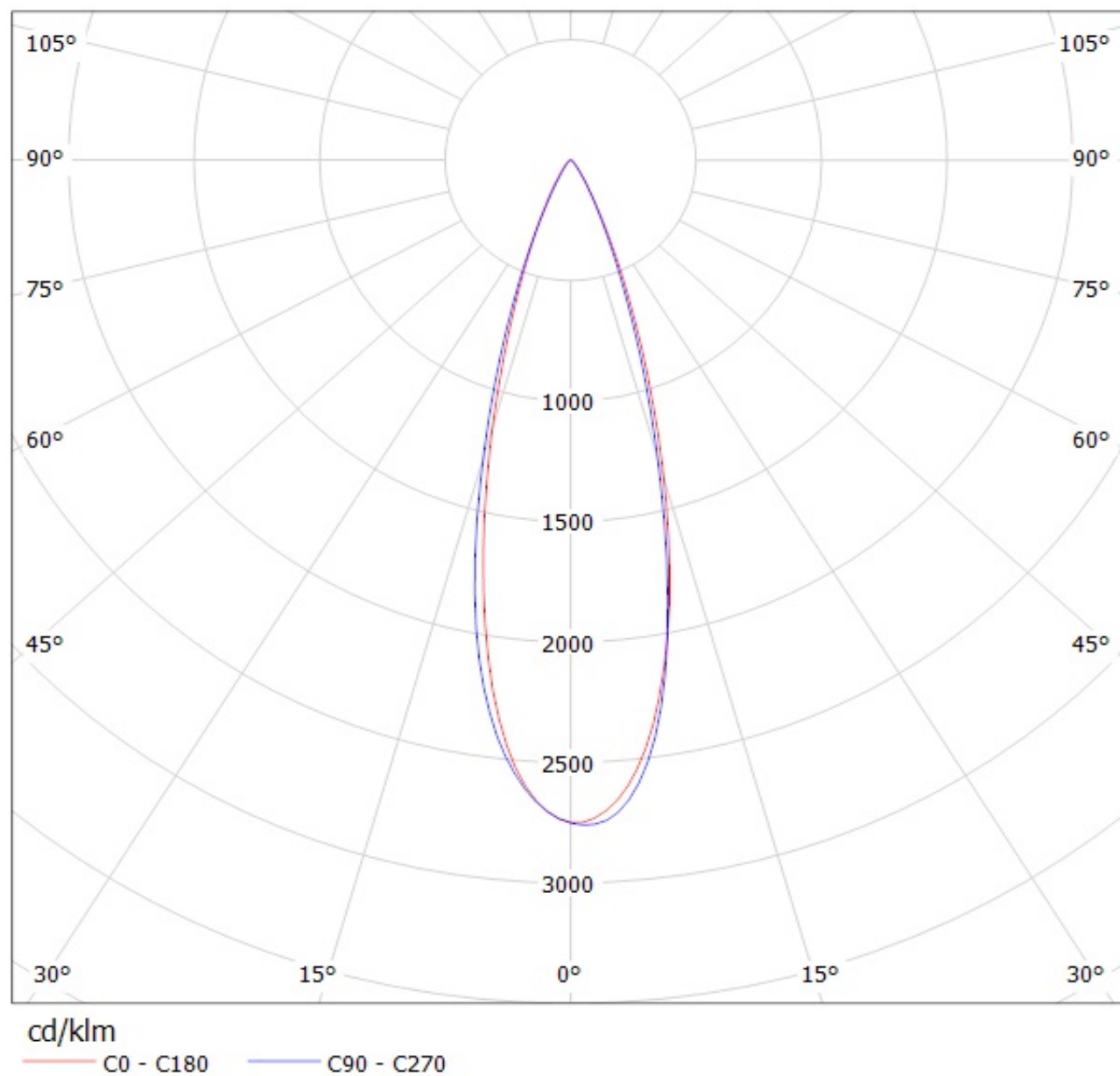
Lamps: 1 x Cree XP-G 89lm 250mA



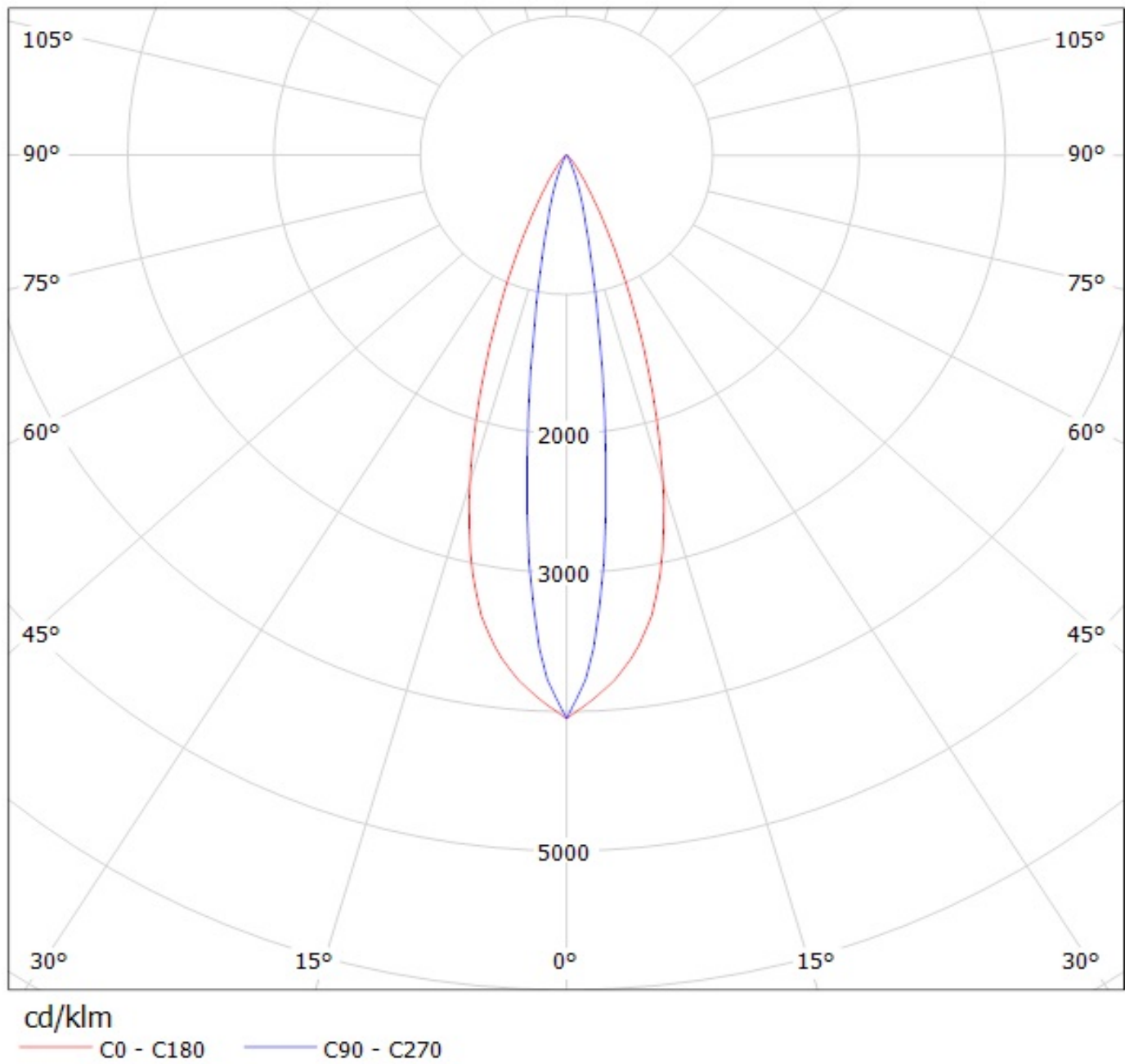
Luminaire: LEDIL OY CA11017_TINA2-M (XP-G) Efficiency=91%
Lamps: 1 x Cree XP-G (92lm@250mA)



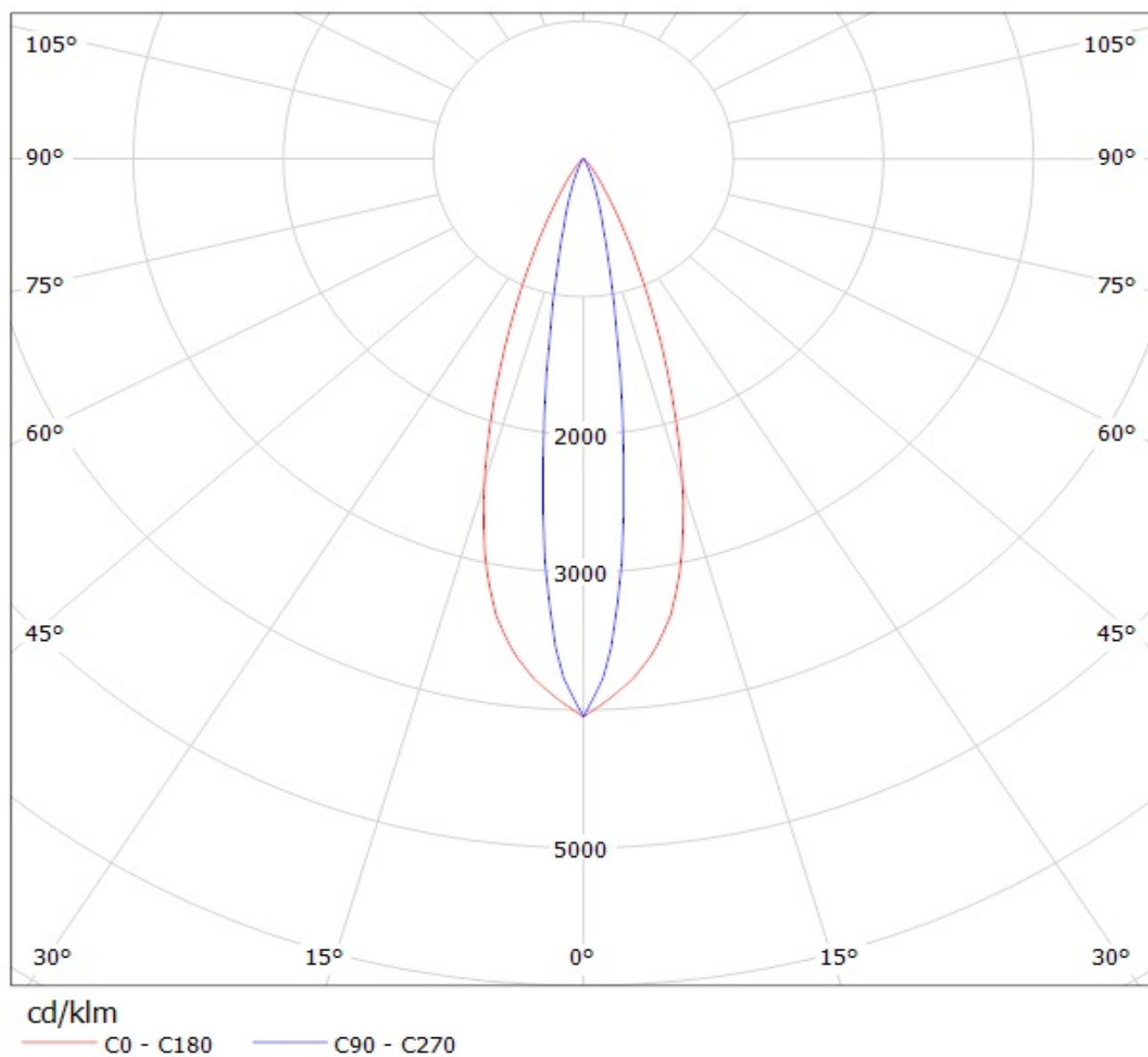
Luminaire: LEDIL OY CP12679_TINA2-M (XP-G) Efficiency=87%
Lamps: 1 x Cree XP-G (92lm@250mA)



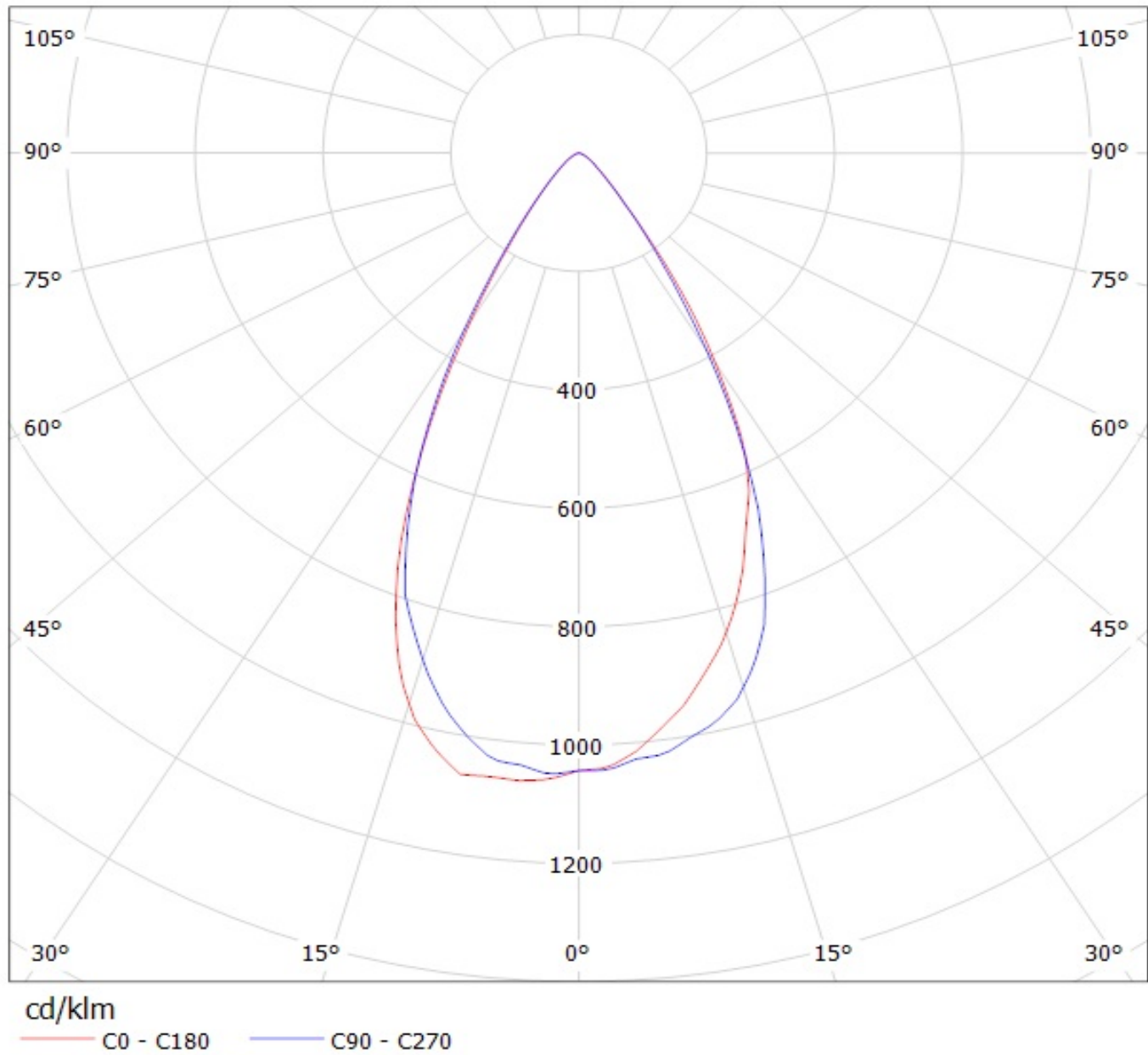
Luminaire: LEDIL OY CA11052_Tina2-O (XP-G) Efficiency=87%
Lamps: 1 x Cree XP-G (92lm@250mA)



Luminaire: LEDIL OY CP12680_TINA2-O (XP-G) Efficiency=87%
Lamps: 1 x Cree XP-G (92lm@250mA)



Luminaire: Ledil Oy CA12056_TINA2-W (Cree XP-G 92lm @ 250mA) Efficiency=88%
Lamps: 1 x Cree XP-G 92lm @ 250mA



Luminaire: LEDiL Oy C13253_TINA2-R-CLIP16_(XP-G) Eff. 90,1%
Lamps: 1 x Cree XP-G (66lm@250mA)

