PRODUCT DATASHEET
Tina2 series
last update 15/10/2012



Ordering number CA11016_TINA2-RS

Family	Tina2	FWHM	15 degrees
Type	Assembly	Efficiency	93 %
LED	XP-G	cd/lm	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	Ready		



Ordering number CP12678_TINA2-D

Family	Tina2	FWHM	16 degrees
Type	Assembly	Efficiency	91 %
LED	XP-G	cd/lm	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	Ready		



Ordering number CA11420_TINA2-D

Family	Tina2	FWHM	17 degrees
Type	Assembly	Efficiency	91 %
LED	XP-G	cd/lm	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	Ready		



Ordering number CA11017_TINA2-M

Family	Tina2	FWHM	30 degrees
Type	Assembly	Efficiency	88 %
LED	XP-G	cd/lm	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	Ready		

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PRODUCT DATASHEET
Tina2 series
last update 15/10/2012



Ordering number CP12679_TINA2-M

Family	Tina2	FWHM	30 degrees
Type	Assembly	Efficiency	88 %
LED	XP-G	cd/lm	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	Ready		



Ordering number CA11052_TINA2-O

Family	Tina2	FWHM	35+16 degrees
Type	Assembly	Efficiency	87 %
LED	XP-G	cd/lm	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	Ready		



Ordering number CP12680_TINA2-O

Family	Tina2	FWHM	35+16 degrees
Type	Assembly	Efficiency	87 %
LED	XP-G	cd/lm	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	Ready		



Ordering number CA12056_TINA2-W

Family	Tina2	FWHM	57 degrees
Type	Assembly	Efficiency	88 %
LED	XP-G	cd/lm	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	Ready		

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PRODUCT DATASHEET
Tina2 series
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Ordering number **CP12681_TINA2-W**

Family	Tina2	FWHM	57 degrees
Type	Assembly	Efficiency	88 %
LED	XP-G	cd/lm	-
Color	Black	Gerber File	Available
Diameter	16.1 mm		
Height	9.65 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	PC		
Fastening	Glue		
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.

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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 (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%208N%20UL94_Yellow%20Card.pdf
http://ledil.fi/sites/default/files/Documents/Technical/Material/PMMA%208N%20PLEXIGLAS-Datasheet.pdf
- Optic holder molded by high quality PC material (120 dergees 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

- Fastening to PCB with appropriate adhesive. By clicking link below you can find Ledil recommended glue options.
http://www.ledil.com/datasheets/DataSheet_GLUES.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 boar 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.
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 boar weaken the strength of the glue.

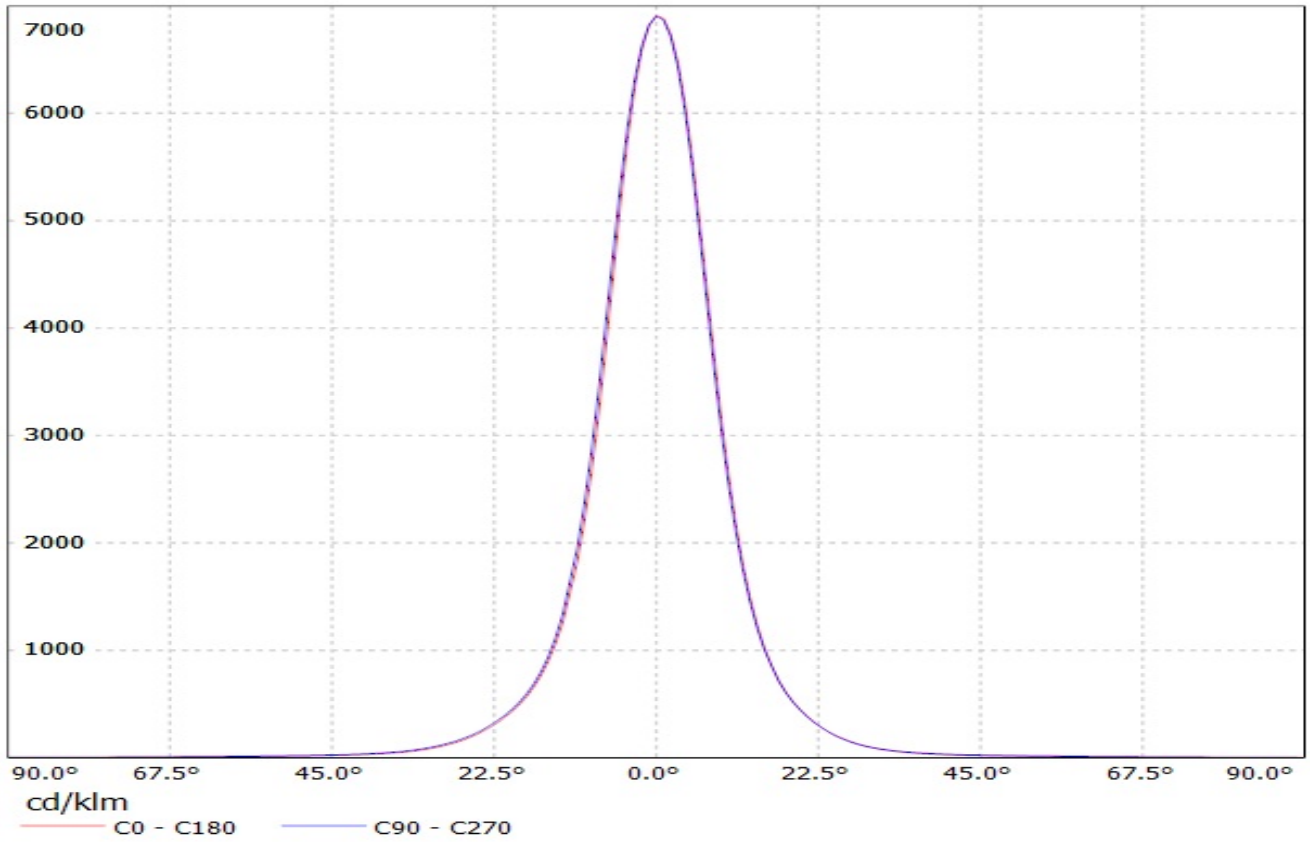
NOTE 2: All surfaces where glue is applied must be clean, dry and free from grease and dirt. If cleaning of PCB surfaces is needed, please follow strictly the cleaning instructions of your LED manufacturer -this is important as cleaning shall under no circumstances damage LEDs or other electronics components 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.

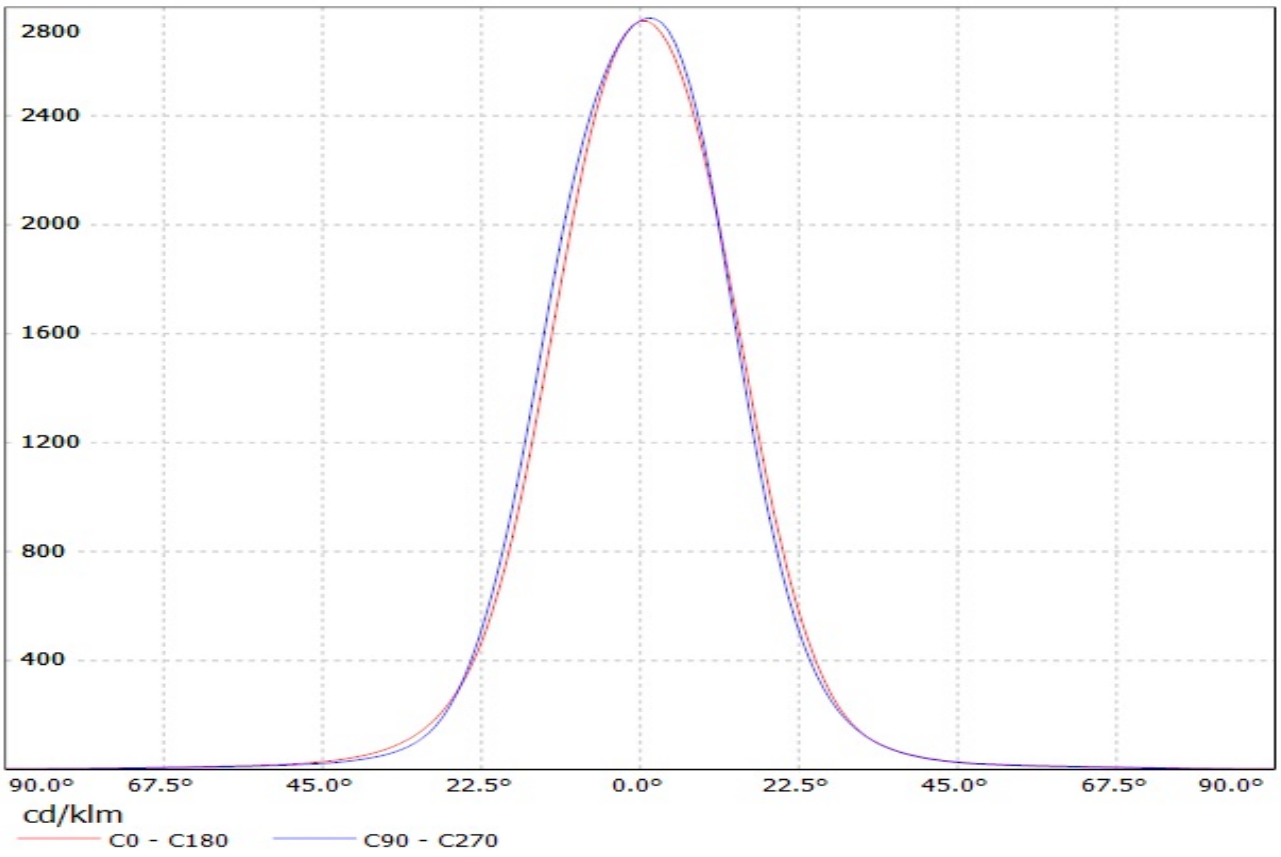
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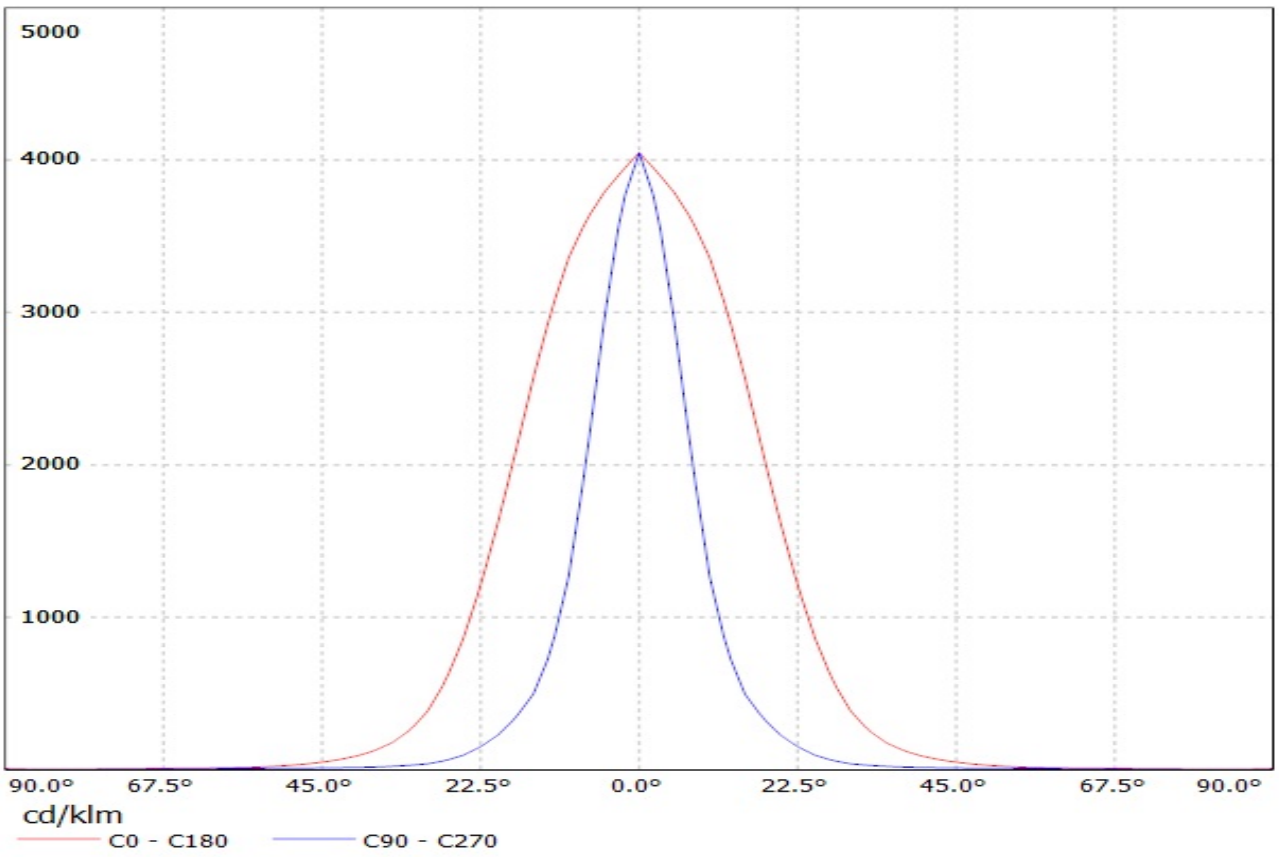
Luminaire: LEDIL OY CP12678_TINA2-D (XP-G) Efficiency=91%
Lamps: 1 x Cree XP-G (92lm@250mA)



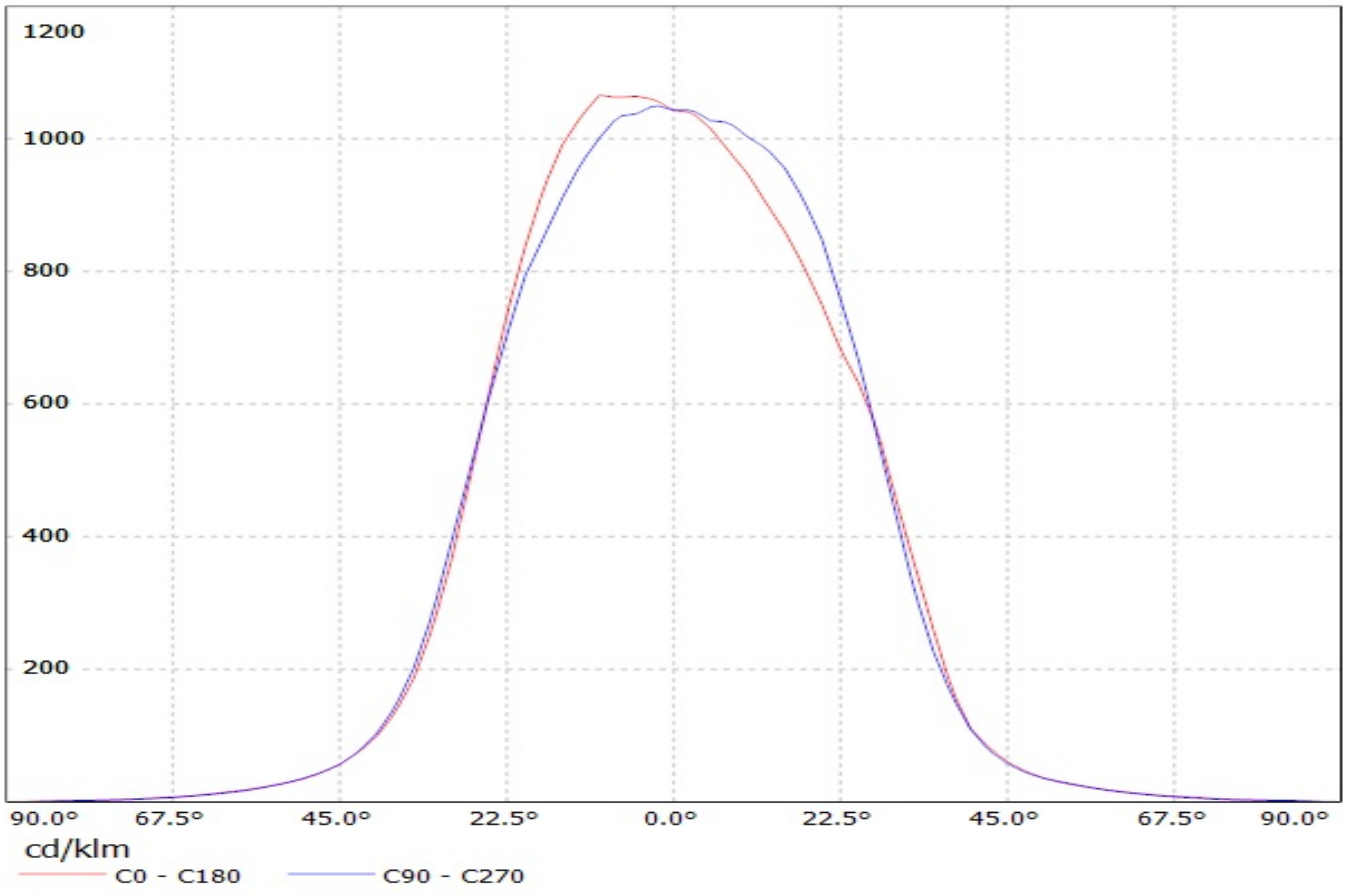
Luminaire: LEDIL OY CP12679_TINA2-M (XP-G) Efficiency=87%
Lamps: 1 x Cree XP-G (92lm@250mA)



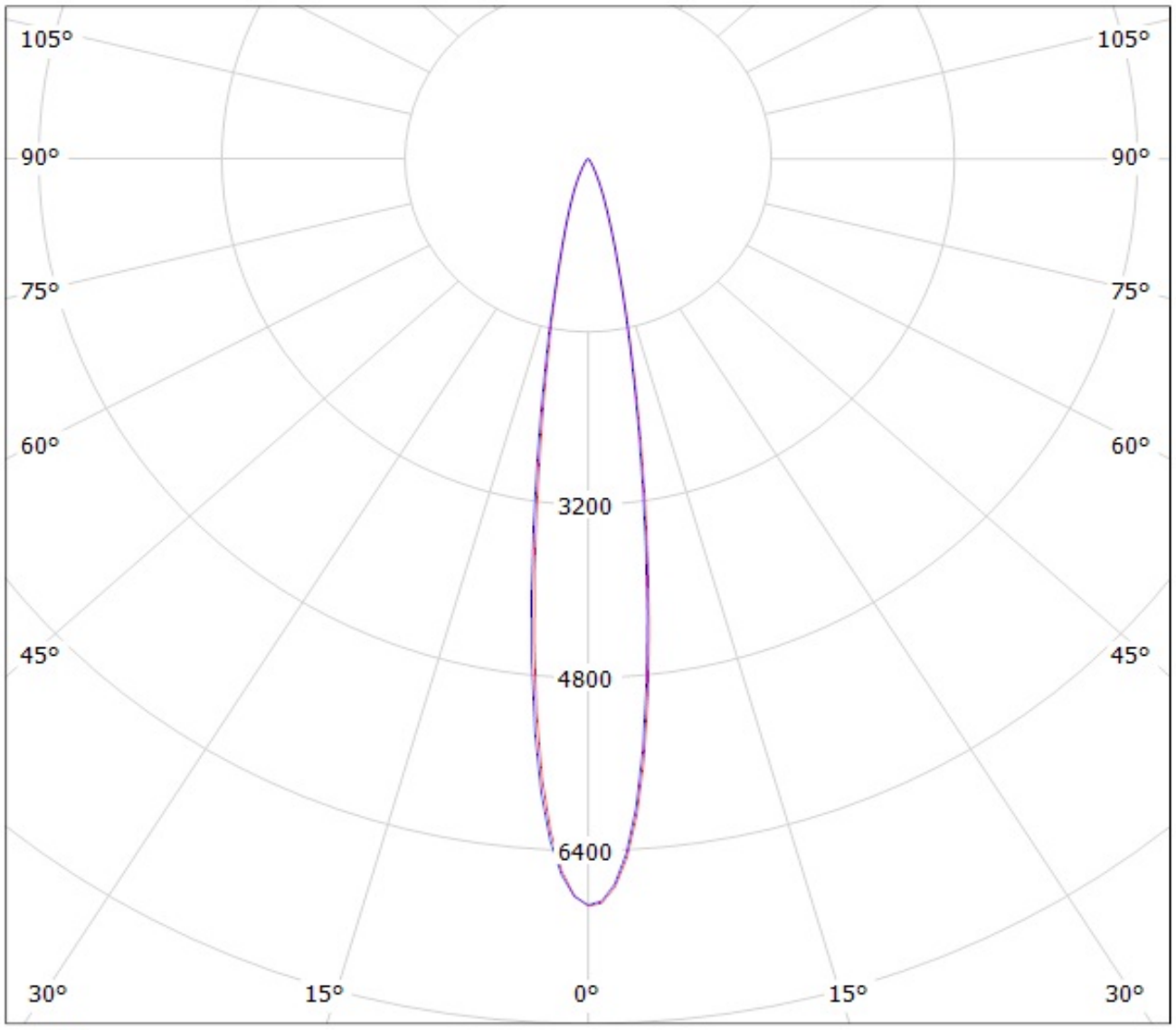
Luminaire: LEDIL OY CP12680_TINA2-O (XP-G) Efficiency=87%
Lamps: 1 x Cree XP-G (92lm@250mA)



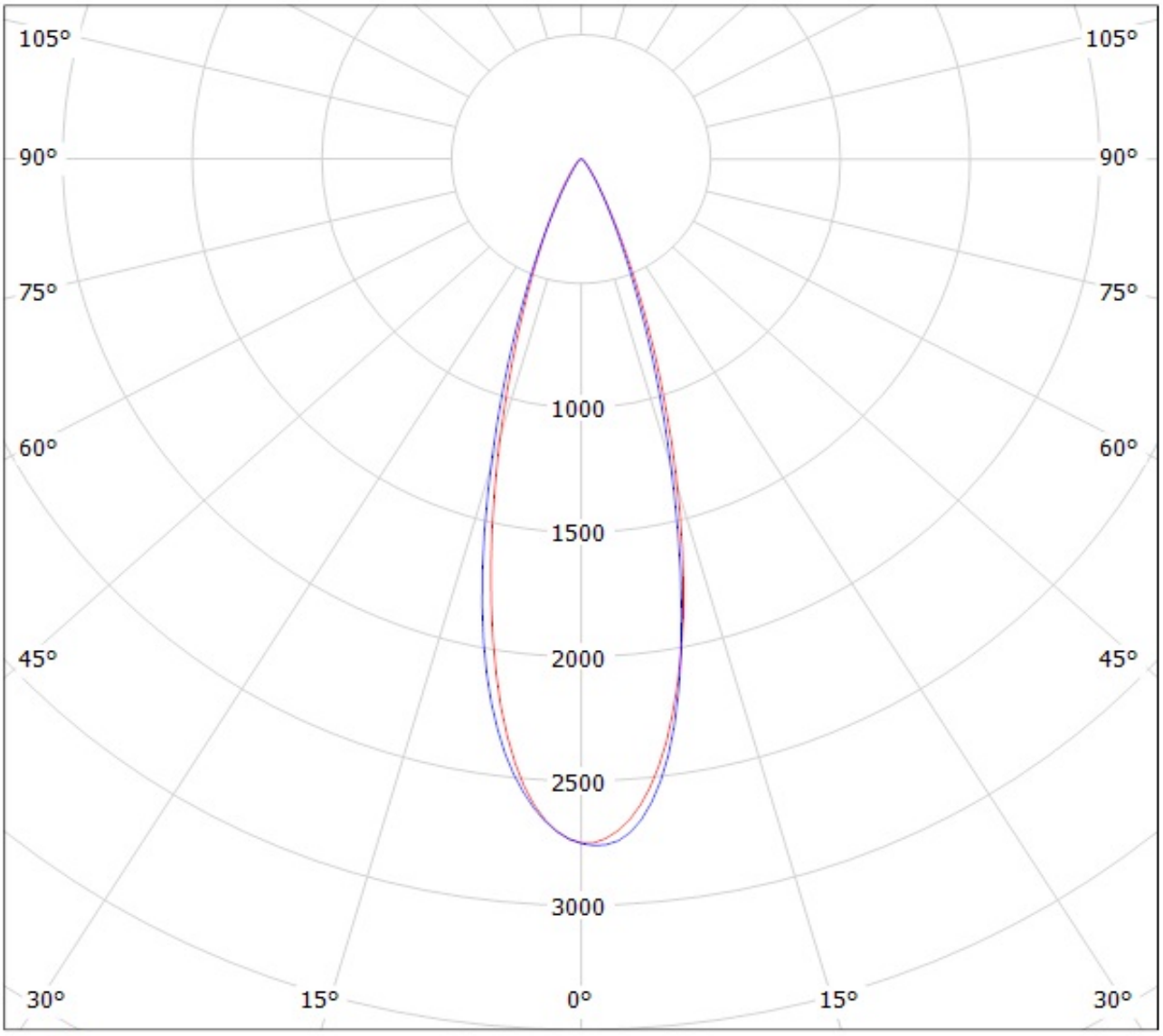
Luminaire: Ledil Oy CA12056_TINA2-W (Cree XP-G 92lm @ 250mA) Efficiency=88%
Lamps: 1 x Cree XP-G 92lm @ 250mA



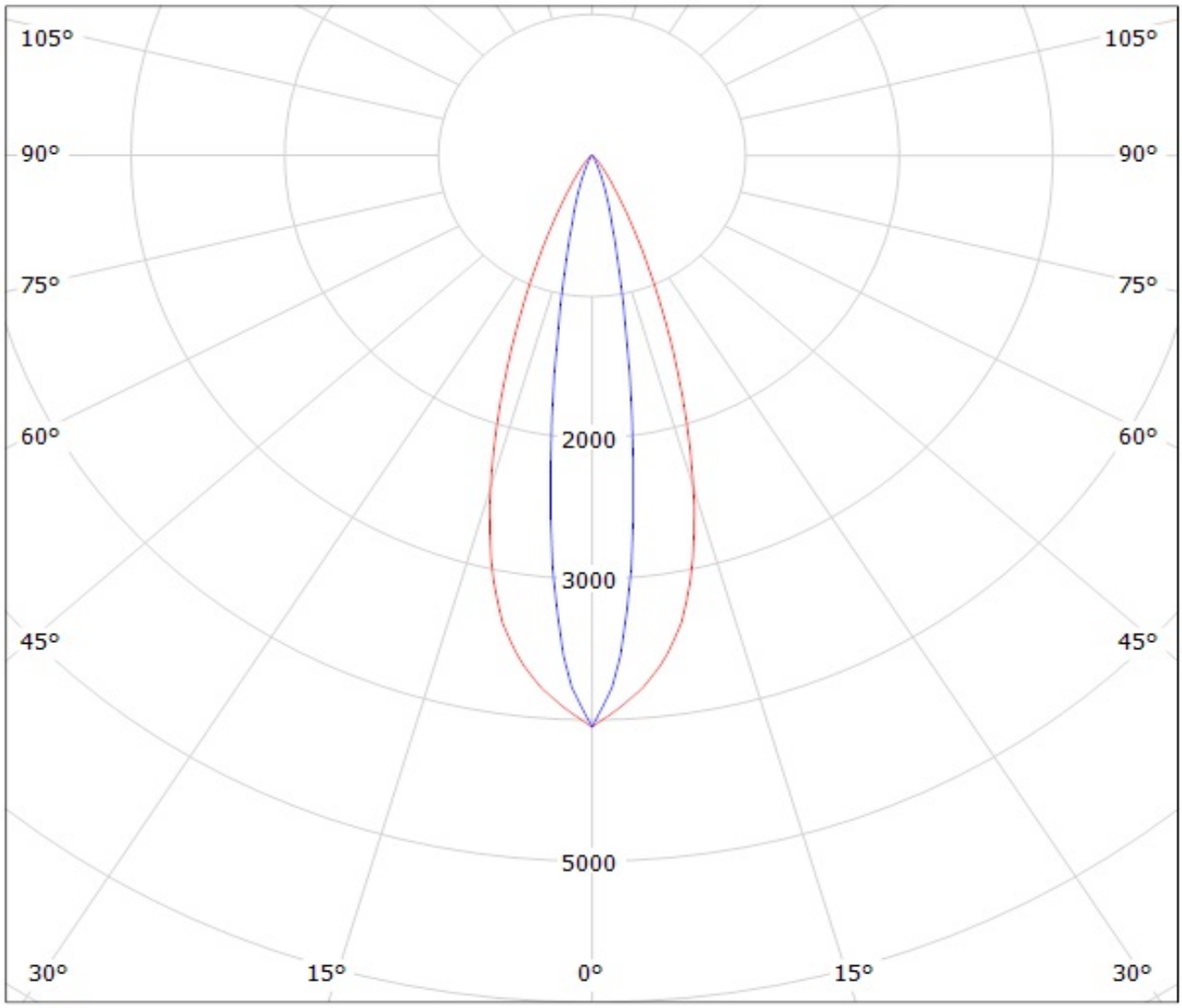
Luminaire: LEDIL OY CP12678_TINA2-D (XP-G) Efficiency=91%
Lamps: 1 x Cree XP-G (92lm@250mA)



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



Luminaire: LEDIL OY 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

