

**Product number FA10887_TINA-RS**

Family	Tina	FWHM	15 degrees
Type	Assembly	Efficiency	93 %
LED	XP-G	cd/lm	8.000
Color	White	Gerber File	Available
Diameter	16.1 mm		
Height	9.7 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	-		
Fastening	["tape"]		
Status	Production ready		

**Product number FA10644_TINA-D**

Family	Tina	FWHM	20 degrees
Type	Assembly	Efficiency	93 %
LED	XP-G	cd/lm	5.130
Color	White	Gerber File	Available
Diameter	16.1 mm		
Height	9.7 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	-		
Fastening	["tape"]		
Status	Production ready		

**Product number FA10645_TINA-M**

Family	Tina	FWHM	30 degrees
Type	Assembly	Efficiency	90 %
LED	XP-G	cd/lm	2.230
Color	White	Gerber File	Available
Diameter	16.1 mm		
Height	9.7 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	-		
Fastening	["tape"]		
Status	Production ready		

**Product number FA11200_TINA-O**

Family	Tina	FWHM	33+18 degrees
Type	Assembly	Efficiency	92 %
LED	XP-G	cd/lm	3.180
Color	White	Gerber File	Available
Diameter	16.1 mm		
Height	9.7 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	-		
Fastening	["tape"]		
Status	Production ready		

PRODUCT DATASHEET

Tina series

last update 6/11/2015

**Product number FA10838_TINA-W**

Family	Tina	FWHM	51 degrees
Type	Assembly	Efficiency	92 %
LED	XP-G	cd/lm	1.150
Color	White	Gerber File	Available
Diameter	16.1 mm		
Height	9.7 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	-		
Fastening	["tape"]		
Status	Production ready		

Product number FA11019_TINA-WW

Family	Tina	FWHM	62 degrees
Type	Assembly	Efficiency	91 %
LED	XP-G	cd/lm	0.800
Color	White	Gerber File	Available
Diameter	16.1 mm		
Height	9.7 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	-		
Fastening	["tape"]		
Status	Production 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

Tina series

last update 6/11/2015

GENERAL INFORMATION

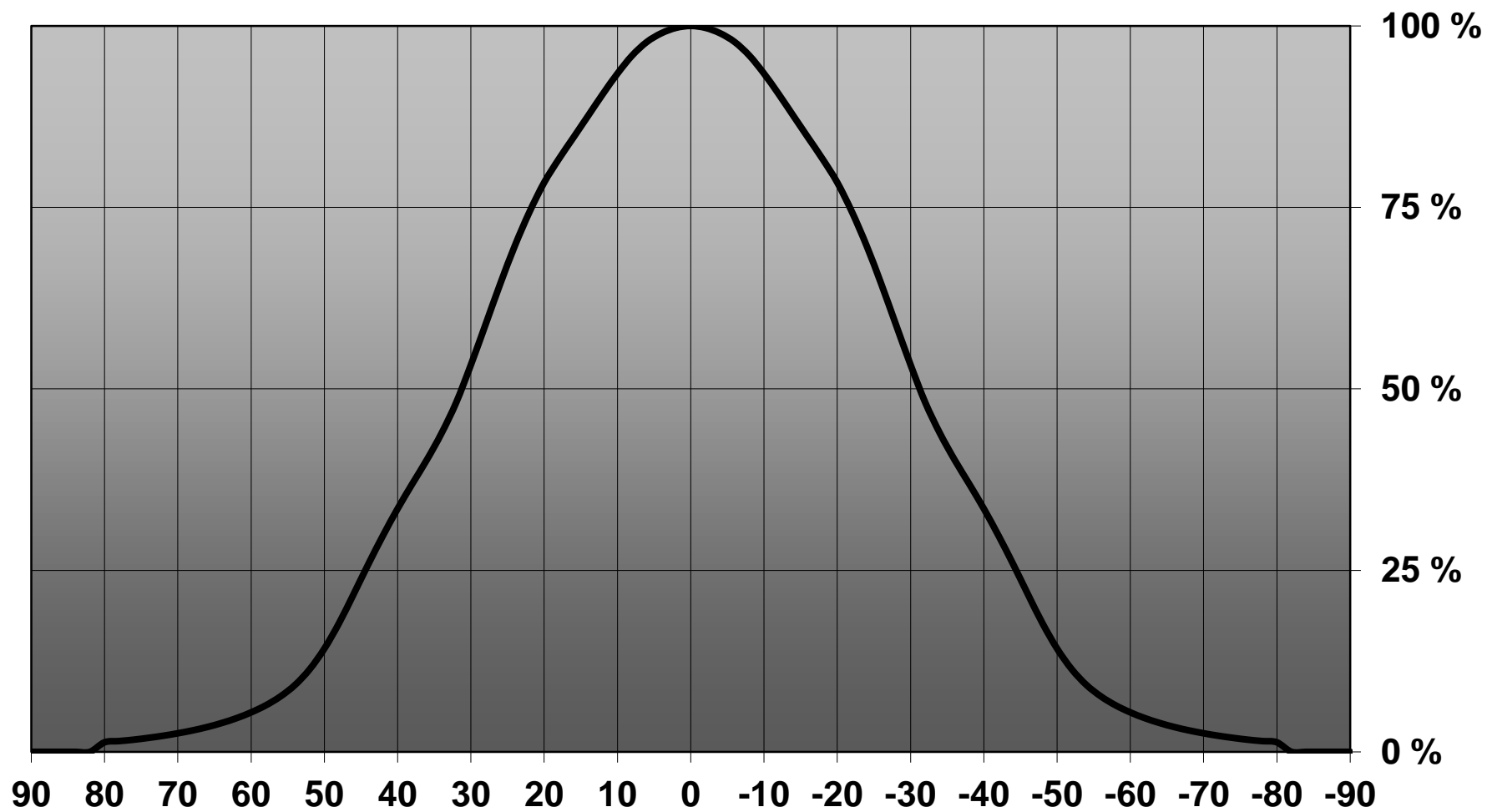
- Product series especially designed & optimized for XP-G series of LEDs.
- Special care taken to make light distribution as uniform as possible.
- Lens material optical grade PMMA with high UV and temperature resistance. Allows use of high current and temperature conditions.

Please find more information about used material from below:

http://ledil.fi/sites/default/files/Documents/Technical/Material/PMMA%20N%20UL94_Yellow%20Card.pdf

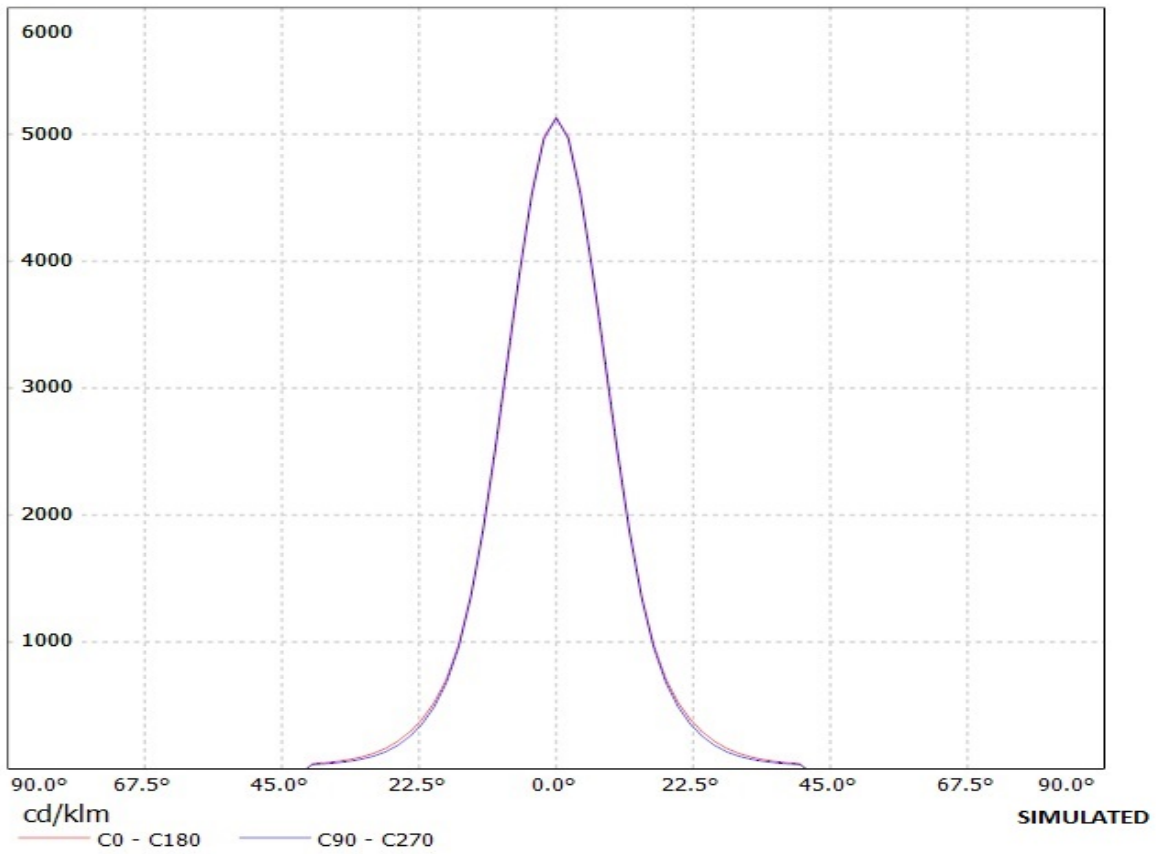
<http://ledil.fi/sites/default/files/Documents/Technical/Material/PMMA%20N%20PLEXIGLAS-Datasheet.pdf>

Relative intensity of FA11019_Tina-WW-WHT (XP-G)



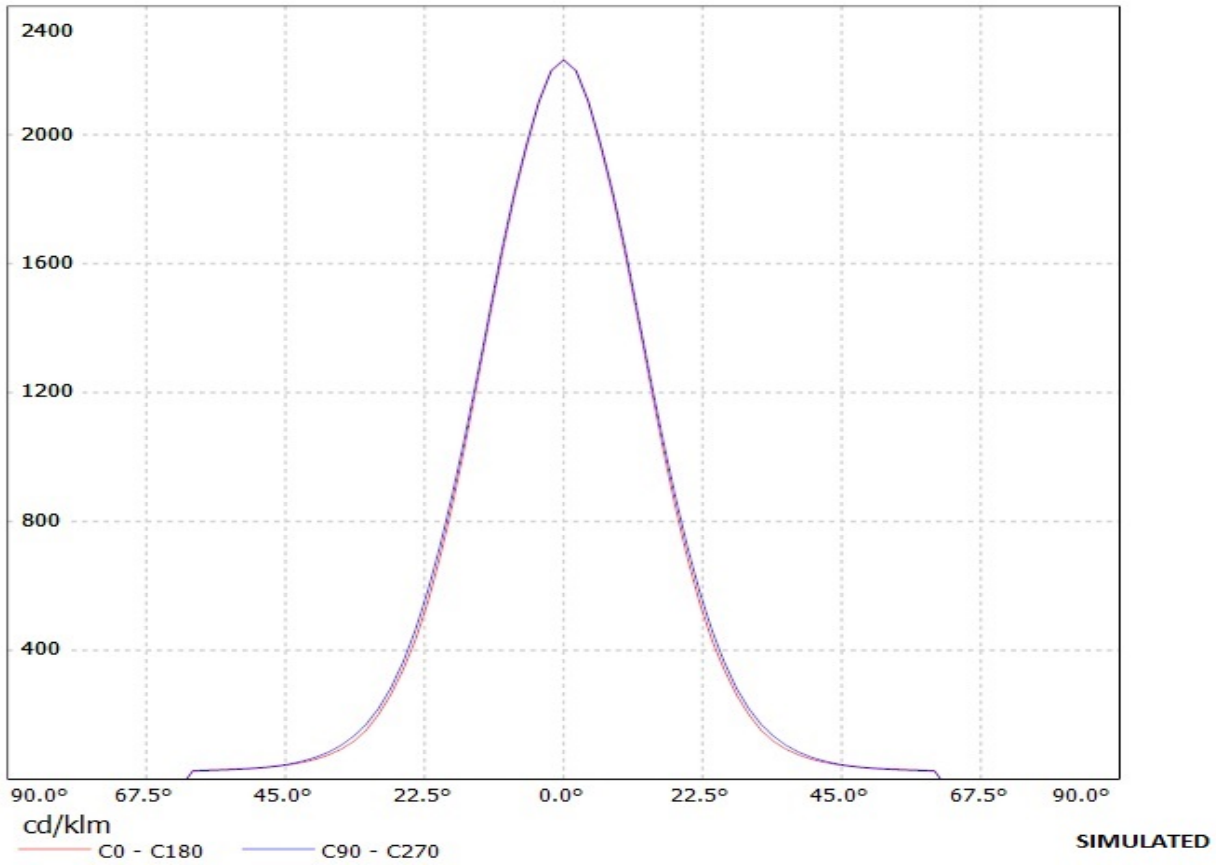
Ledil Oy FA10644_Tina-XP-G-D FA10644_Tina-XP-G-D / LDC (Linear)

Luminaire: Ledil Oy FA10644_Tina-XP-G-D FA10644_Tina-XP-G-D
Lamps: 1 x Cree XP-G (White)



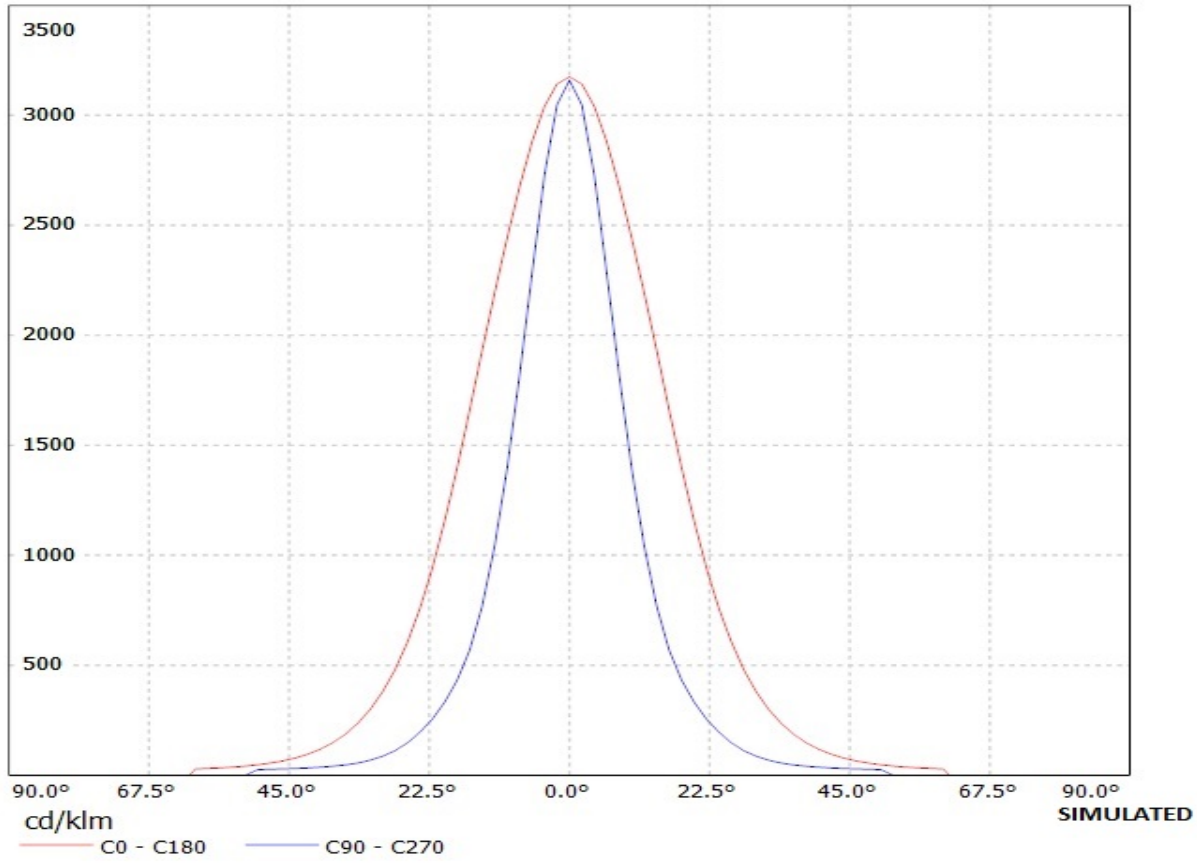
Ledil Oy FA10645_Tina-XP-G-M FA10645_Tina-XP-G-M / LDC (Linear)

Luminaire: Ledil Oy FA10645_Tina-XP-G-M FA10645_Tina-XP-G-M
Lamps: 1 x Cree XP-G (White)

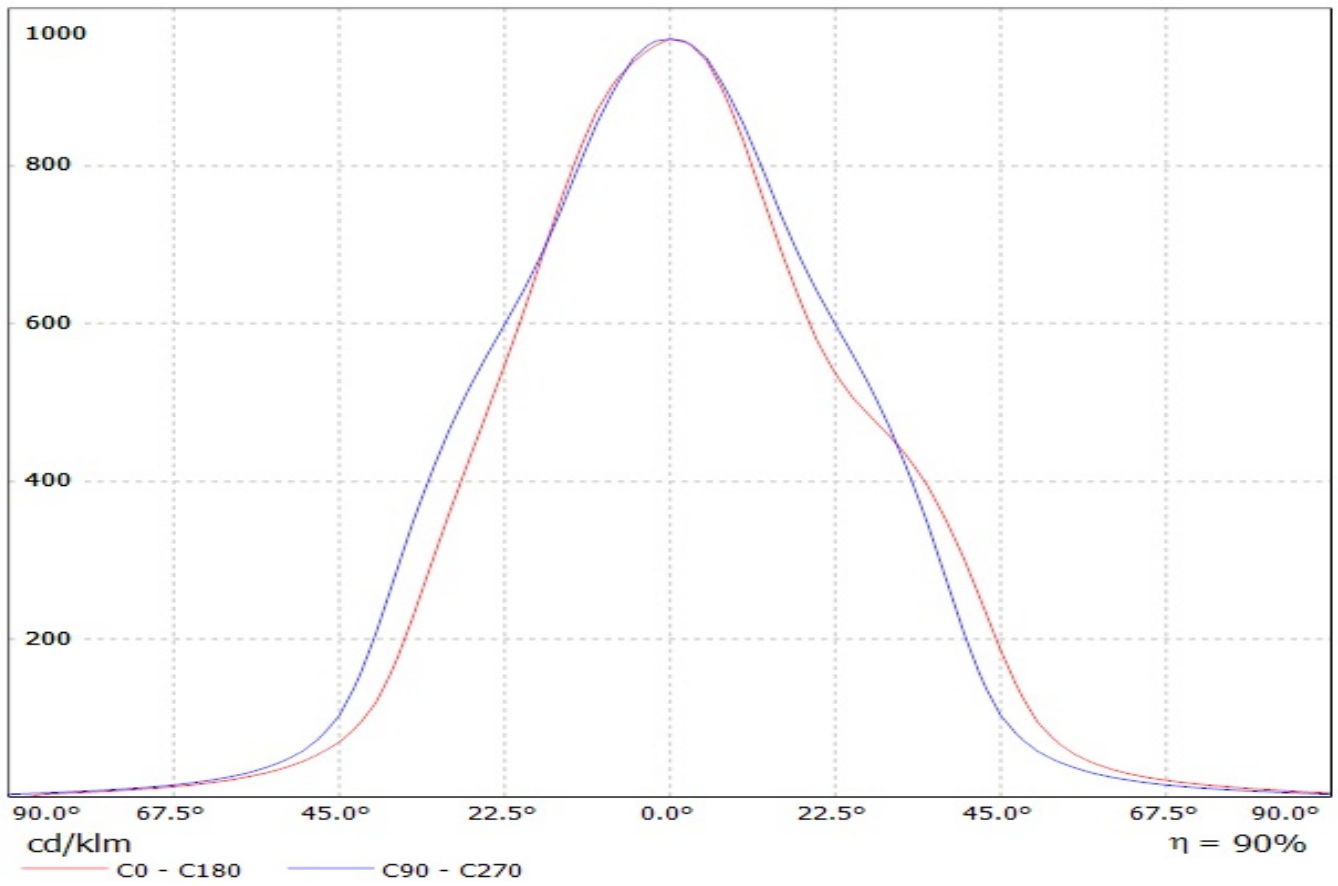


Ledil Oy FA11200_Tina-XP-G-O FA11200_Tina-XP-G-O / LDC (Linear)

Luminaire: Ledil Oy FA11200_Tina-XP-G-O FA11200_Tina-XP-G-O
Lamps: 1 x Cree XP-G

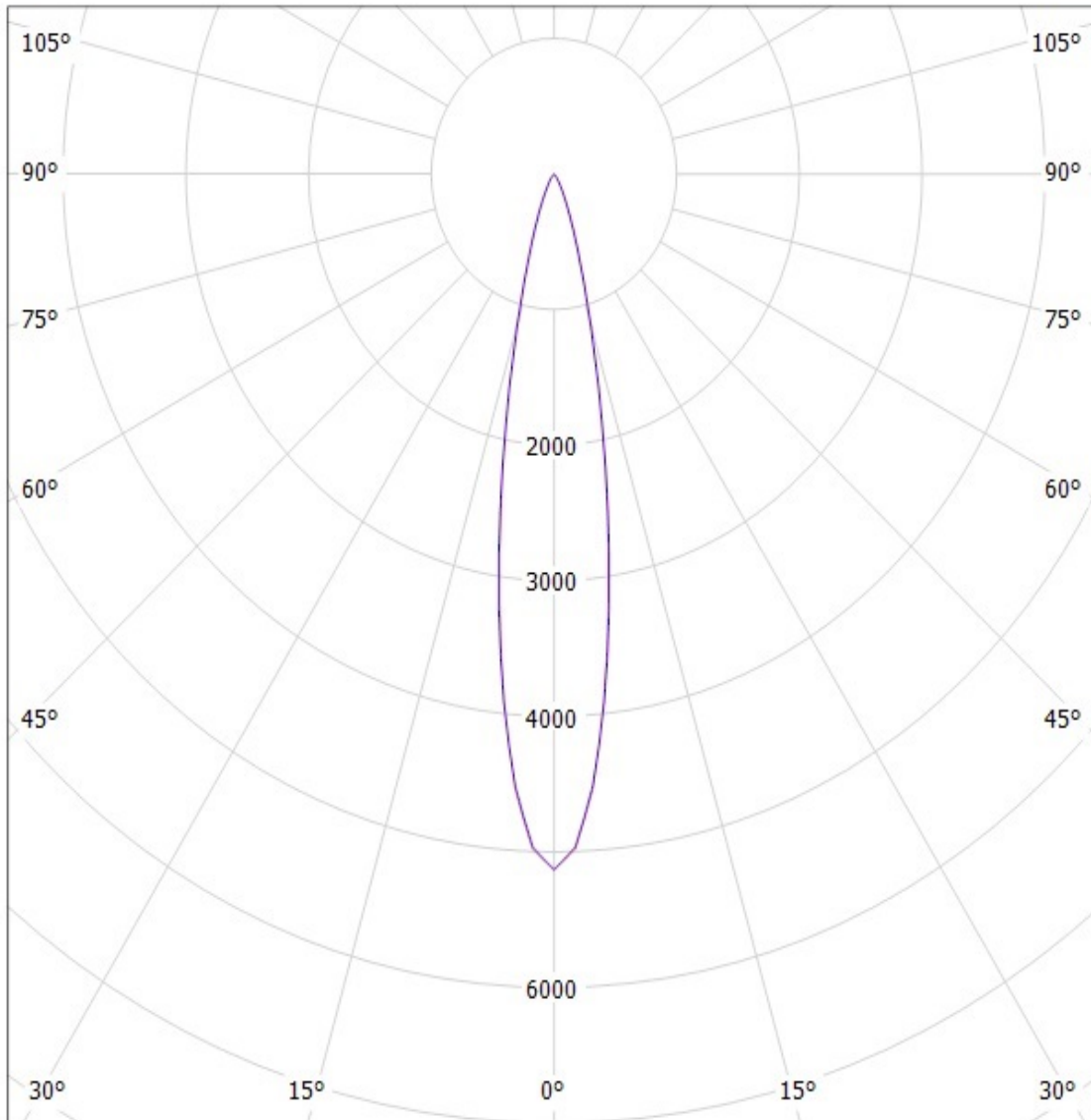


Luminaire: LEDIL OY FA11019_Tina-WW (Cree XP-G) Efficiency=91%
Lamps: 1 x Cree XP-G (92lm@250mA)



Ledil Oy FA10644_Tina-XP-G-D FA10644_Tina-XP-G-D / LDC (Polar)

Luminaire: Ledil Oy FA10644_Tina-XP-G-D FA10644_Tina-XP-G-D
Lamps: 1 x Cree XP-G (White)



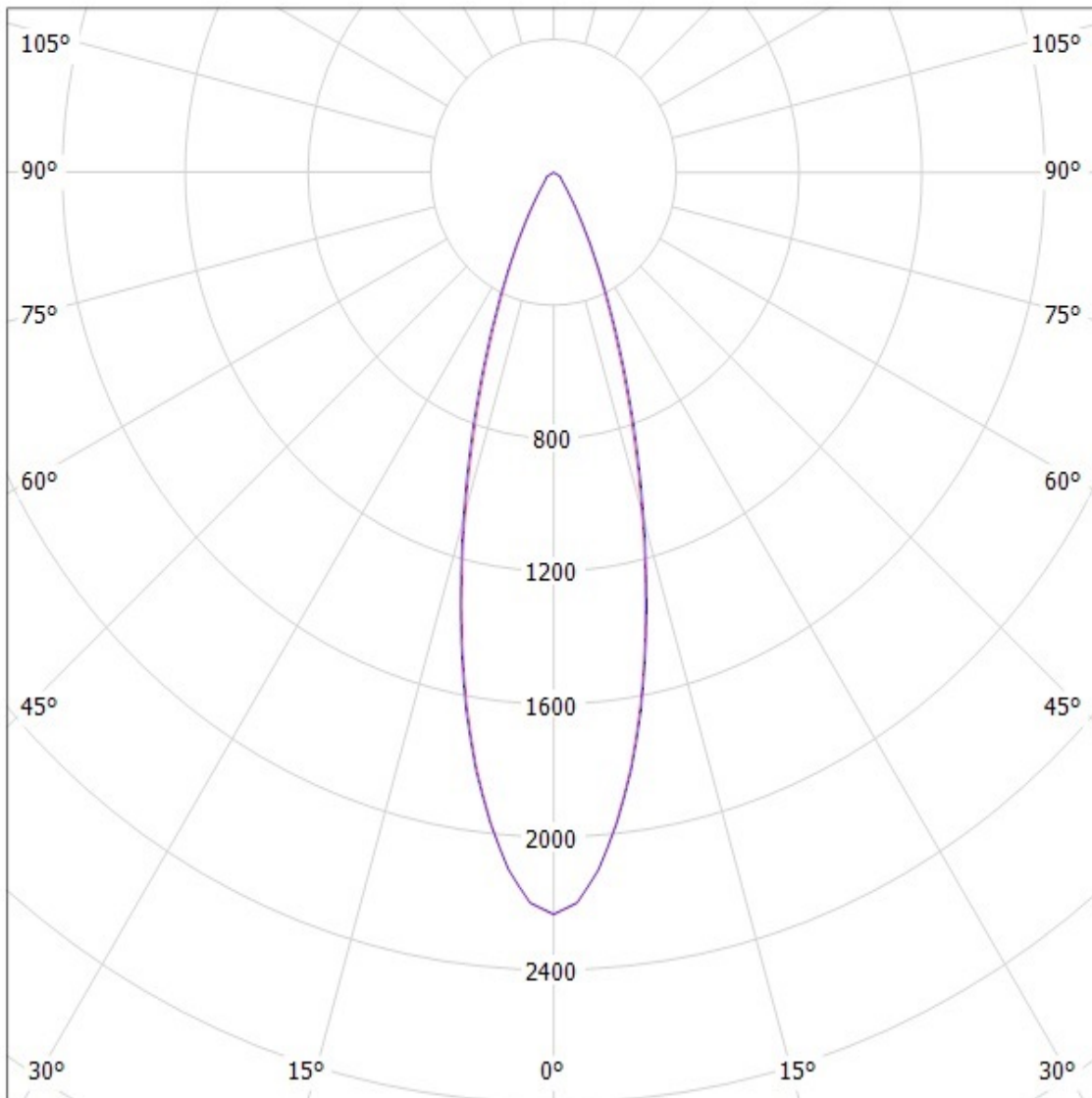
cd/klm

— C0 - C180 — C90 - C270

SIMULATED

Ledil Oy FA10645_Tina-XP-G-M FA10645_Tina-XP-G-M / LDC (Polar)

Luminaire: Ledil Oy FA10645_Tina-XP-G-M FA10645_Tina-XP-G-M
Lamps: 1 x Cree XP-G (White)



cd/klm

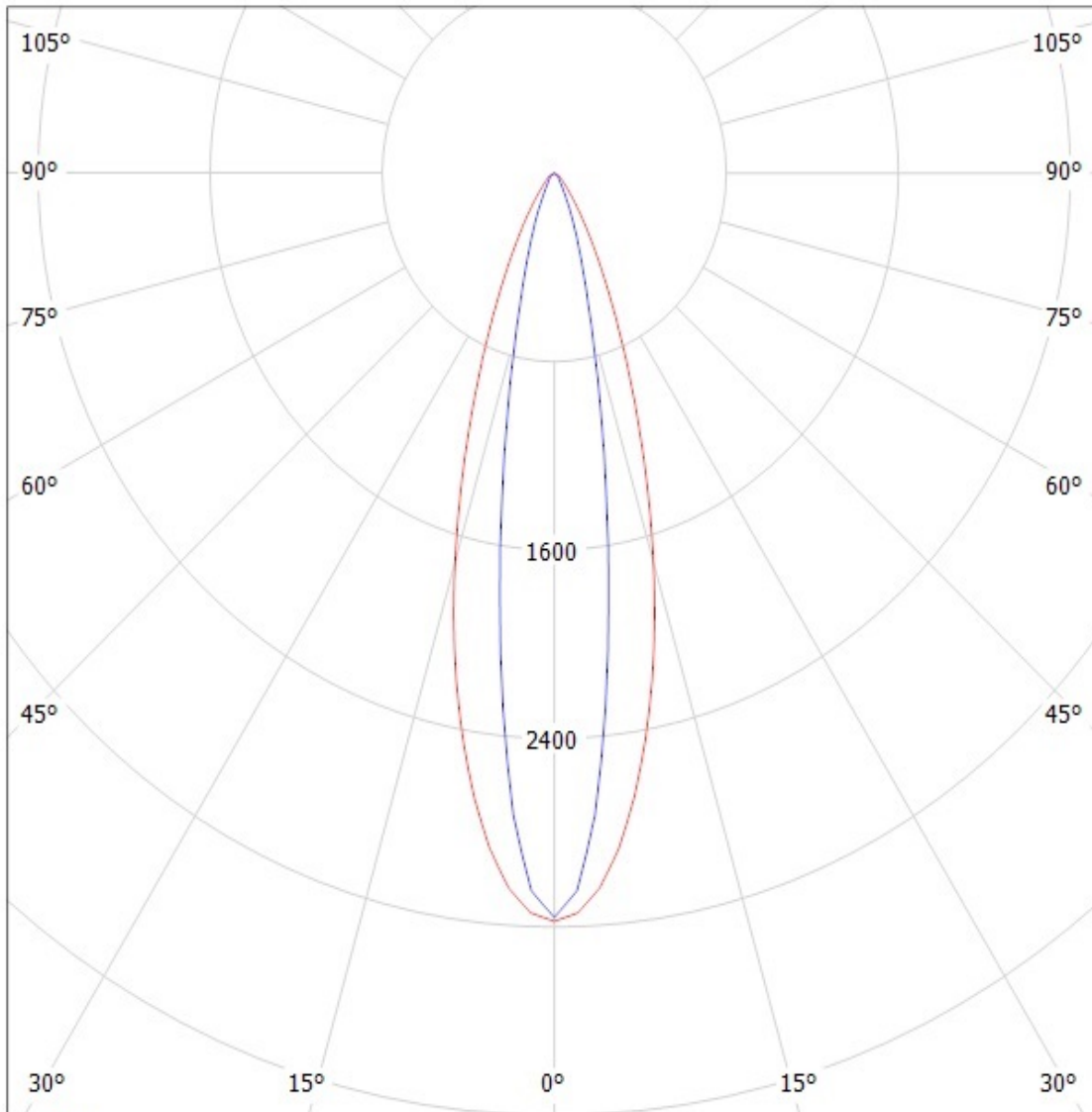
— C0 - C180 — C90 - C270

SIMULATED

Ledil Oy FA11200_Tina-XP-G-O FA11200_Tina-XP-G-O / LDC (Polar)

Luminaire: Ledil Oy FA11200_Tina-XP-G-O FA11200_Tina-XP-G-O

Lamps: 1 x Cree XP-G



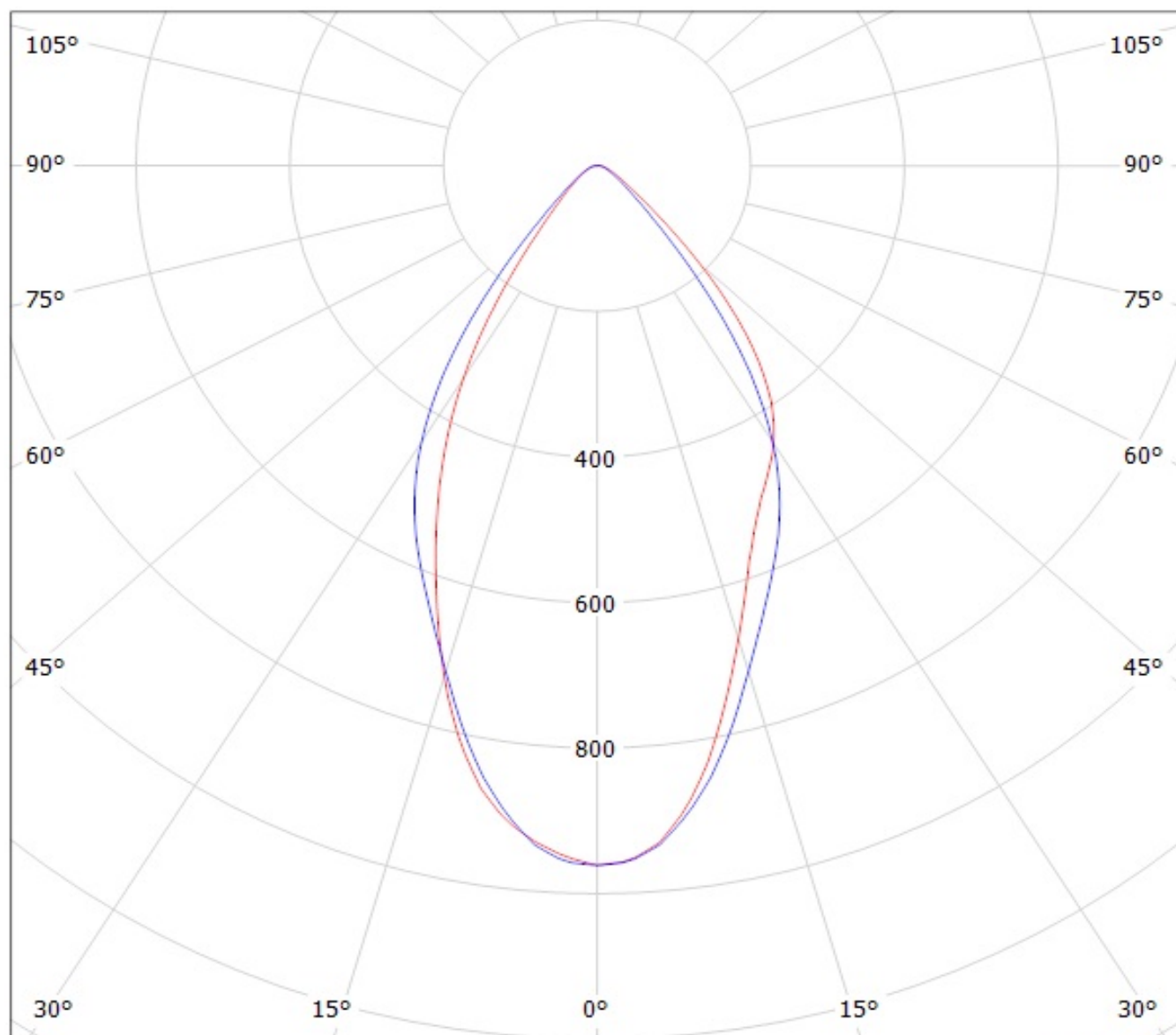
cd/klm

— C0 - C180

— C90 - C270

SIMULATED

Luminaire: LEDIL OY FA11019_Tina-WW (Cree XP-G) Efficiency=91%
Lamps: 1 x Cree XP-G (92lm@250mA)



cd/klm

— C0 - C180 — C90 - C270

η = 90%