

**Product number FA11905_TINA3-S**

Family	Tina3	FWHM	23 degrees
Type	Assembly	Efficiency	86 %
LED	XM-L	cd/lm	3.440
Color	White	Gerber File	Available
Diameter	16.1 mm		
Height	11.4 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	-		
Fastening	["tape", "pin"]		
Status	Production ready		

**Product number FA11902_TINA3-W**

Family	Tina3	FWHM	43 degrees
Type	Assembly	Efficiency	94 %
LED	XM-L	cd/lm	1.000
Color	White	Gerber File	Available
Diameter	16.1 mm		
Height	7.3 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	-		
Fastening	["tape", "pin"]		
Status	Production ready		

**Product number FA11903_TINA3-WW**

Family	Tina3	FWHM	56 degrees
Type	Assembly	Efficiency	89 %
LED	XM-L	cd/lm	0.850
Color	White	Gerber File	Available
Diameter	16.1 mm		
Height	7.1 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	-		
Fastening	["pin", "tape"]		
Status	Production ready		

**Product number FA11904_TINA3-WWW**

Family	Tina3	FWHM	70 degrees
Type	Assembly	Efficiency	89 %
LED	XM-L	cd/lm	0.600
Color	White	Gerber File	Available
Diameter	16.1 mm		
Height	7 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	-		
Fastening	["tape", "pin"]		
Status	Production ready		



PRODUCT DATASHEET

Tina3 series

last update 13/9/2013

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

Tina3 series

last update 13/9/2013

GENERAL INFORMATION

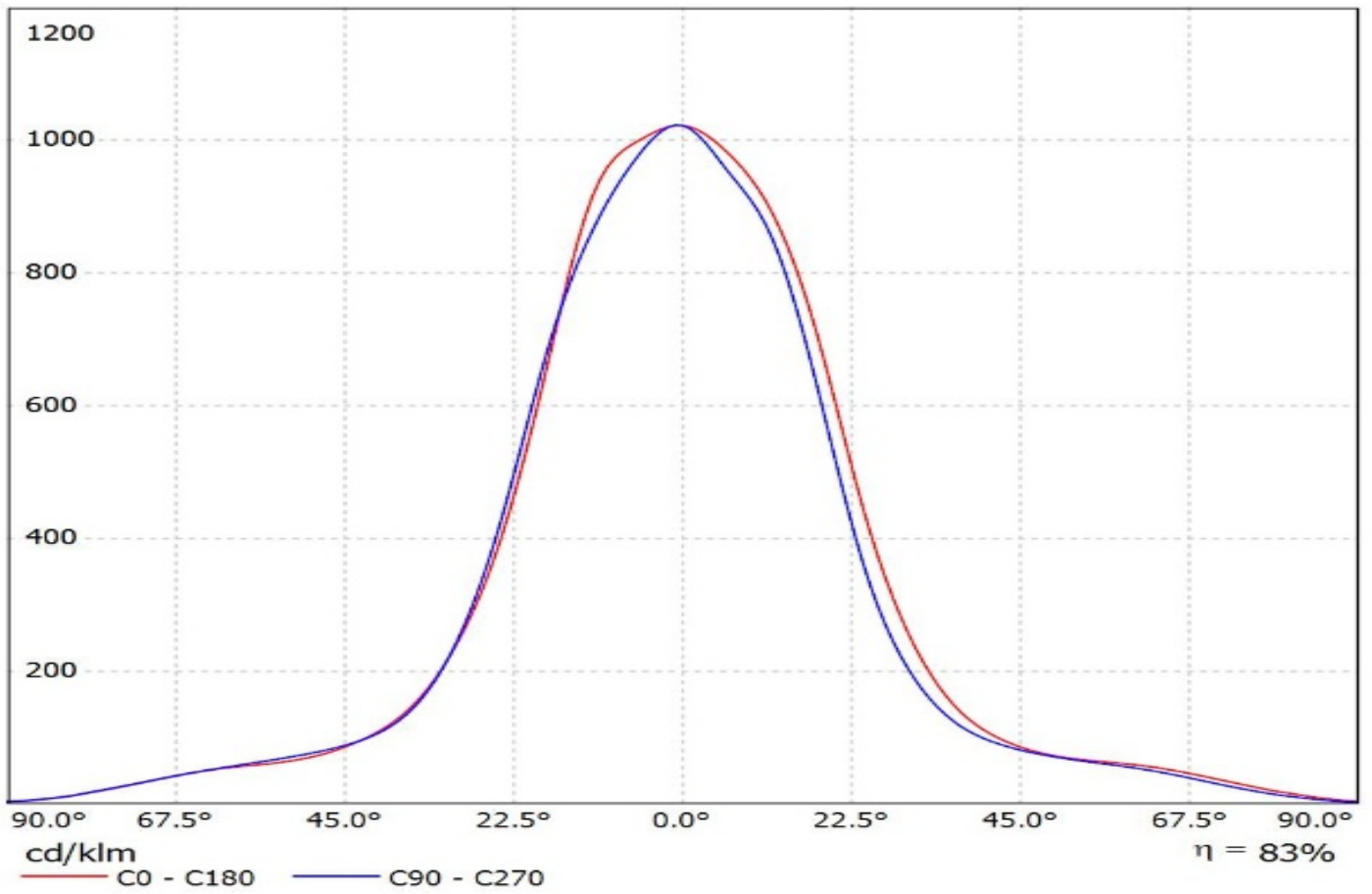
- Product series especially designed & optimized for XM-L series of LEDs.
- Special care taken to make light distribution as uniform as possible.
- Lens material optical grade PMMA with high UV and temperature resistance. Allows use of high current and temperature conditions.

Please find more information about used material from below:

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

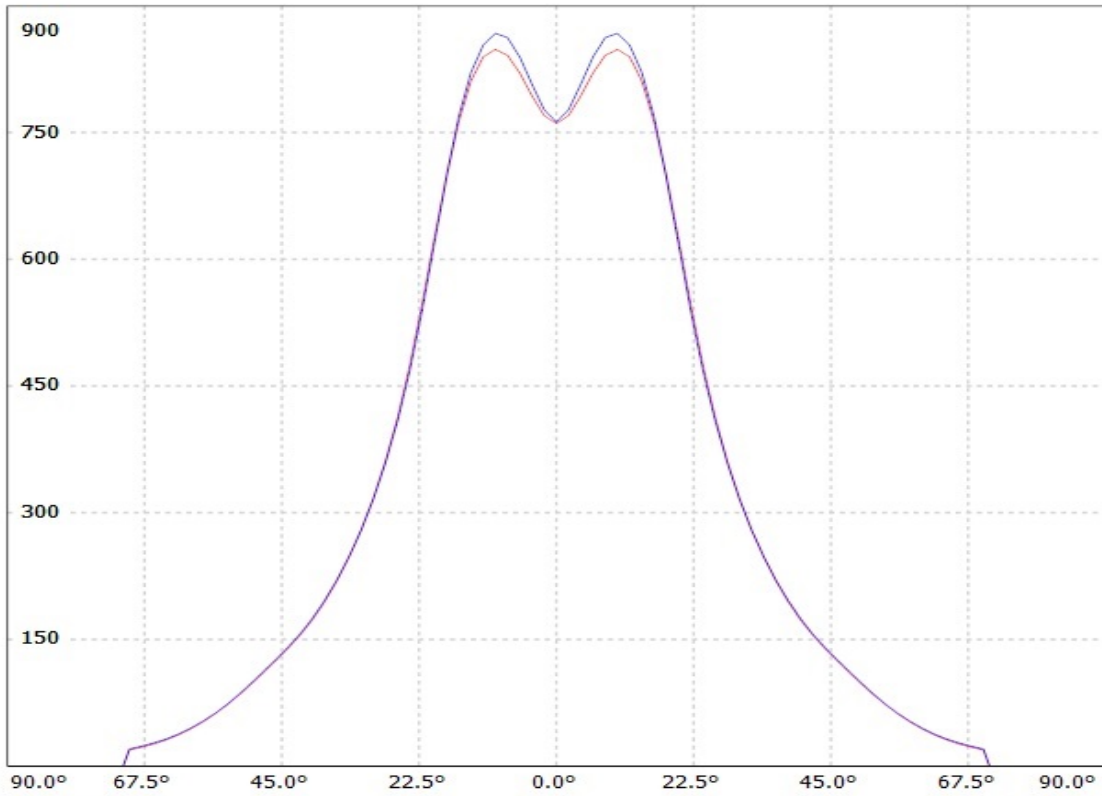
<http://ledil.fi/sites/default/files/Documents/Technical/Material/PMMA%20N%20PLEXIGLAS-Datasheet.pdf>

Luminaire: Ledil Oy
Lamps: 1 x FA11902_TINA3-W_(XM-L)



Ledil Oy FA11903_Tina3-WW-XM FA11903_Tina3-WW-XM LOR=89% / LDC (Linear)

Luminaire: Ledil Oy FA11903_Tina3-WW-XM FA11903_Tina3-WW-XM LOR=89%
Lamps: 1 x Cree XM-L



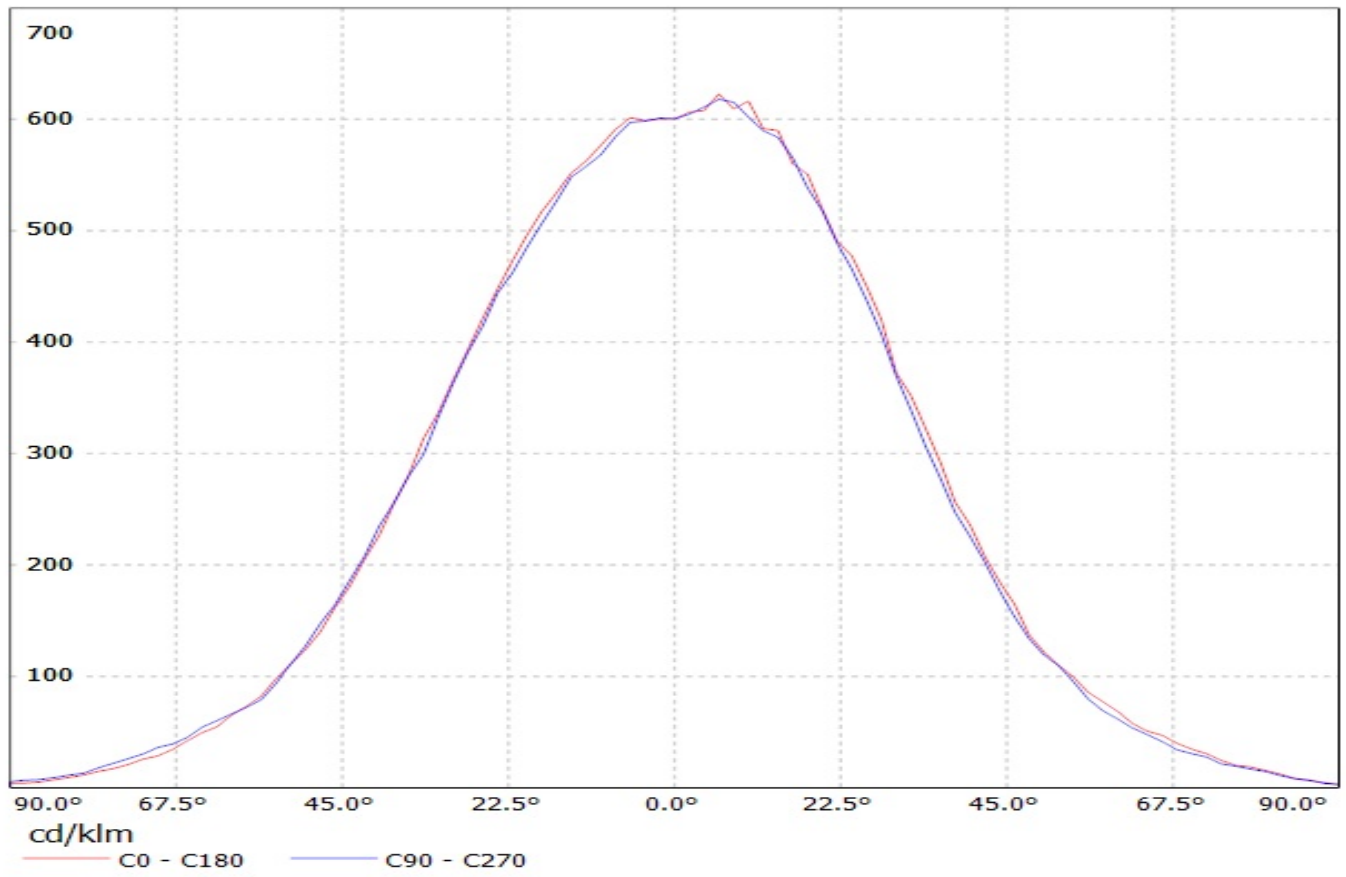
cd/klm

— C0 - C180

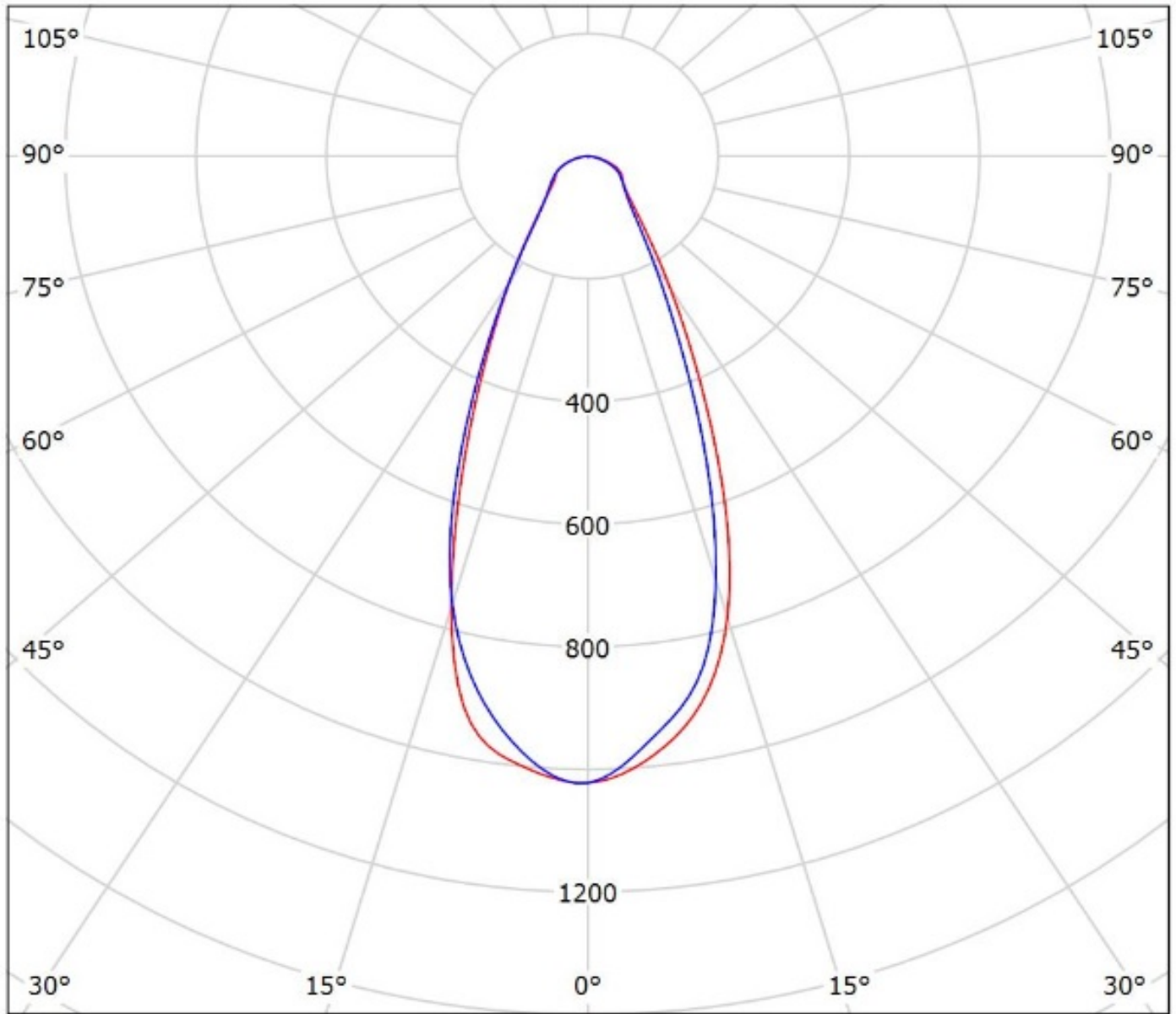
— C90 - C270

SIMULATED

Luminaire: Ledil Oy FA11904_TINA3-WWW (Cree XM-L 90lm @ 250mA) Efficiency=89%
Lamps: 1 x Cree XM-L 90lm @ 250mA



Luminaire: Ledil Oy
Lamps: 1 x FA11902_TINA3-W_(XM-L)



cd/klm

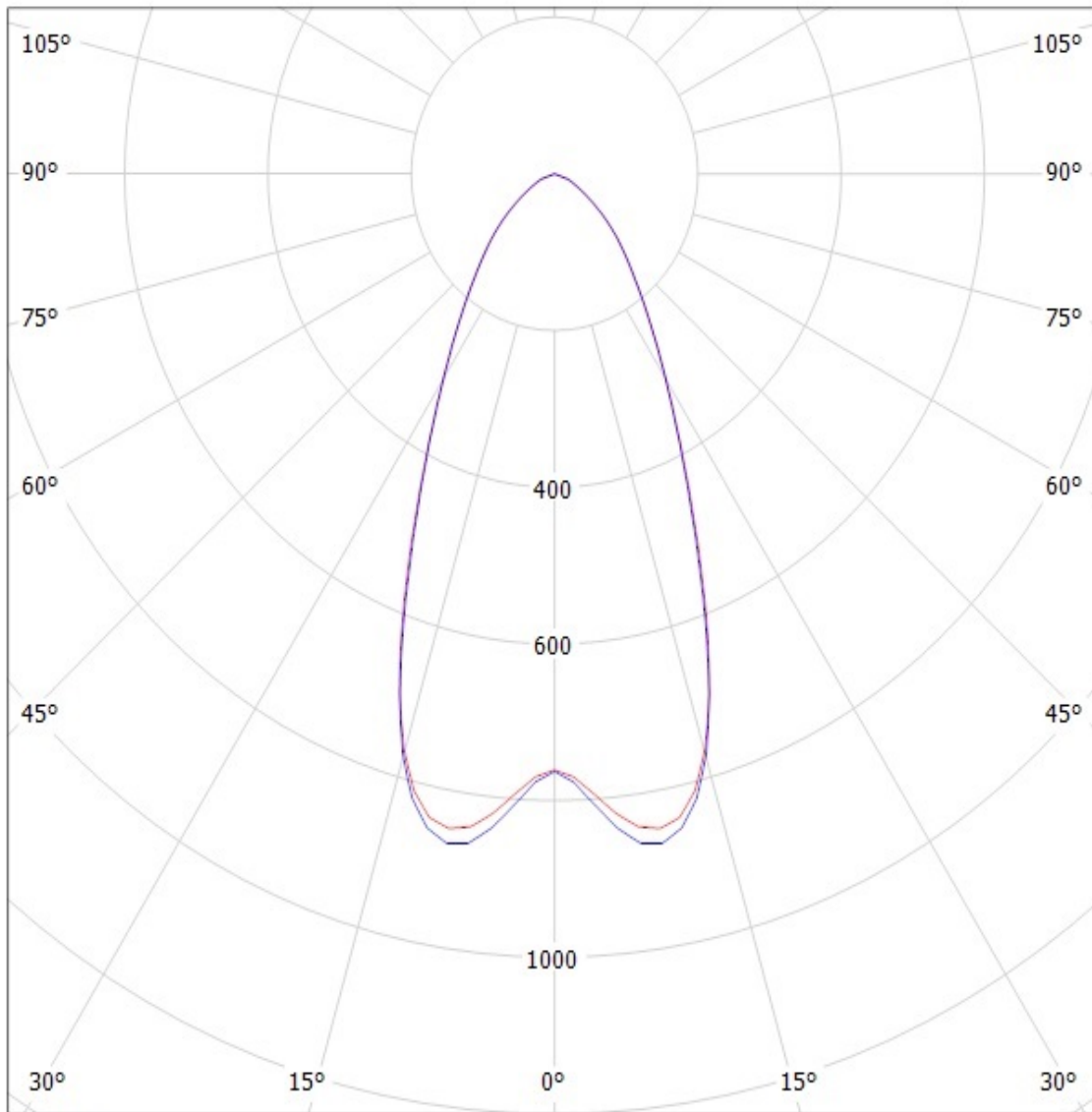
— C0 - C180 — C90 - C270

$\eta = 83\%$

Ledil Oy FA11903_Tina3-WW-XM FA11903_Tina3-WW-XM LOR=89% / LDC (Polar)

Luminaire: Ledil Oy FA11903_Tina3-WW-XM FA11903_Tina3-WW-XM LOR=89%

Lamps: 1 x Cree XM-L

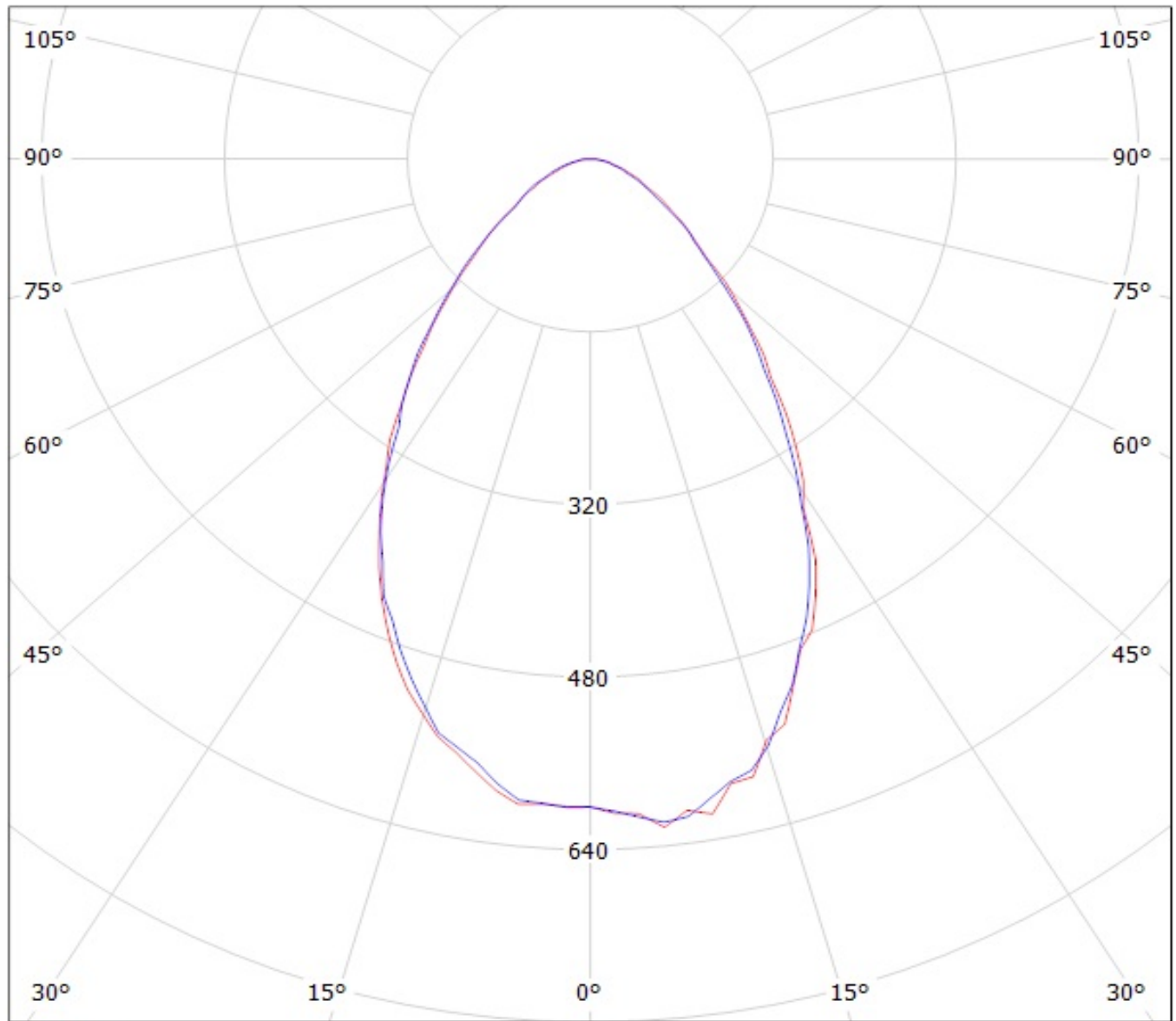


cd/klm

— C0 - C180 — C90 - C270

SIMULATED

Luminaire: Ledil Oy FA11904_TINA3-WWW (Cree XM-L 90lm @ 250mA) Efficiency=89%
Lamps: 1 x Cree XM-L 90lm @ 250mA



cd/klm

— C0 - C180 — C90 - C270