

**Product number FA11905\_TINA3-S**

|                 |               |             |            |
|-----------------|---------------|-------------|------------|
| Family          | Tina3         | FWHM        | 10 degrees |
| Type            | Assembly      | Efficiency  | 86 %       |
| LED             | XP-E          | cd/Im       | 15.800     |
| Color           | White         | Gerber File | Available  |
| Diameter        | 16.1 mm       |             |            |
| Height          | 11.4 mm       |             |            |
| Style           | Round         |             |            |
| Optic Material  | PMMA          |             |            |
| Holder Material | PC            |             |            |
| Fastening       | Pin, tape     |             |            |
| Status          | On production |             |            |

**Product number CA12892\_TINA3-WW**

|                 |               |             |            |
|-----------------|---------------|-------------|------------|
| Family          | Tina3         | FWHM        | 39 degrees |
| Type            | Assembly      | Efficiency  | 93 %       |
| LED             | XP-E          | cd/Im       | 1.400      |
| Color           | White         | Gerber File | Available  |
| Diameter        | 16.1 mm       |             |            |
| Height          | 7.29 mm       |             |            |
| Style           | Round         |             |            |
| Optic Material  | PMMA          |             |            |
| Holder Material | PC            |             |            |
| Fastening       | Tape          |             |            |
| Status          | On production |             |            |

**Product number FA11824\_TINA3-W**

|                 |               |             |            |
|-----------------|---------------|-------------|------------|
| Family          | Tina3         | FWHM        | 41 degrees |
| Type            | Assembly      | Efficiency  | 93 %       |
| LED             | XP-E          | cd/Im       | 1.780      |
| Color           | White         | Gerber File | Available  |
| Diameter        | 16.1 mm       |             |            |
| Height          | 6.9 mm        |             |            |
| Style           | Round         |             |            |
| Optic Material  | PMMA          |             |            |
| Holder Material | PC            |             |            |
| Fastening       | Pin, tape     |             |            |
| Status          | On production |             |            |

**Product number FA11825\_TINA3-WW**

|                 |               |             |            |
|-----------------|---------------|-------------|------------|
| Family          | Tina3         | FWHM        | 54 degrees |
| Type            | Assembly      | Efficiency  | 93 %       |
| LED             | XP-E          | cd/Im       | 1.160      |
| Color           | White         | Gerber File | Available  |
| Diameter        | 16.1 mm       |             |            |
| Height          | 6.9 mm        |             |            |
| Style           | Round         |             |            |
| Optic Material  | PMMA          |             |            |
| Holder Material | PC            |             |            |
| Fastening       | Pin, tape     |             |            |
| Status          | On production |             |            |

**Product number** FA11826\_TINA3-WWW

|                 |               |             |            |
|-----------------|---------------|-------------|------------|
| Family          | Tina3         | FWHM        | 79 degrees |
| Type            | Assembly      | Efficiency  | 92 %       |
| LED             | XP-E          | cd/Im       | 0.460      |
| Color           | White         | Gerber File | Available  |
| Diameter        | 16.1 mm       |             |            |
| Height          | 6.9 mm        |             |            |
| Style           | Round         |             |            |
| Optic Material  | PMMA          |             |            |
| Holder Material | PC            |             |            |
| Fastening       | Pin, tape     |             |            |
| 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

### Tina3 series

last update 13/6/2013



#### 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.

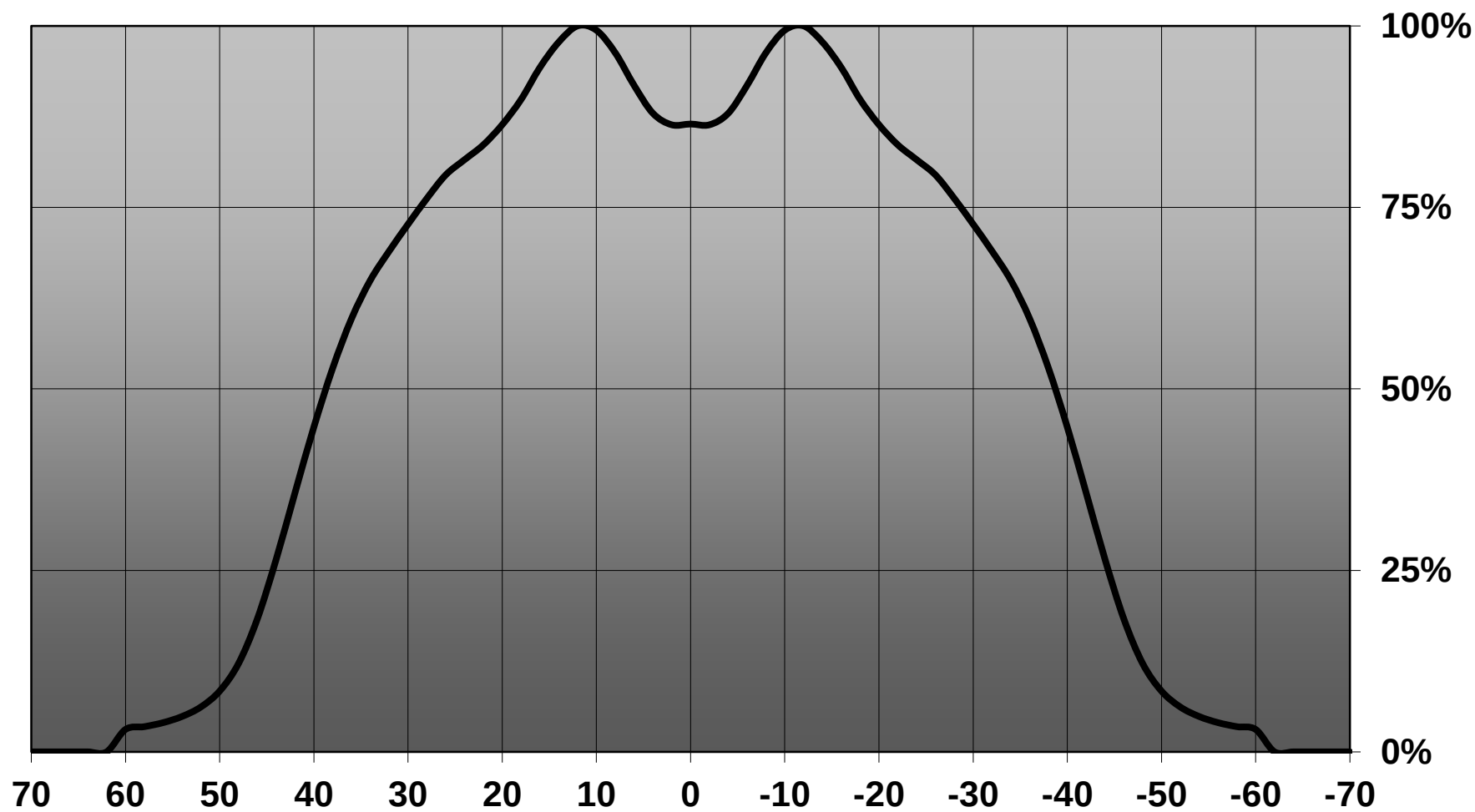
Please find more information about used material from below:

[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%20UL94_Yellow%20Card.pdf)

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

- Optic holder molded by high quality PC material (120 degrees of Celcius / 248 degrees of Fahrenheit).

Relative intensity of FA11825\_Tina3-WW-XP



4

3

2

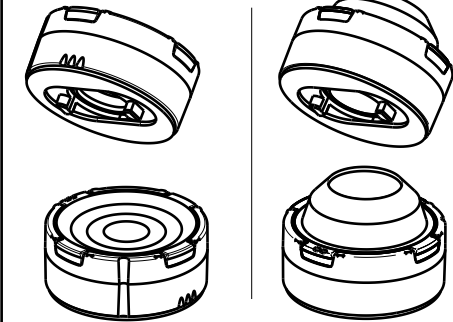
1

4

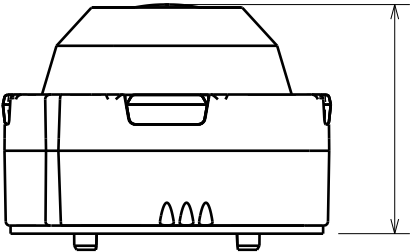
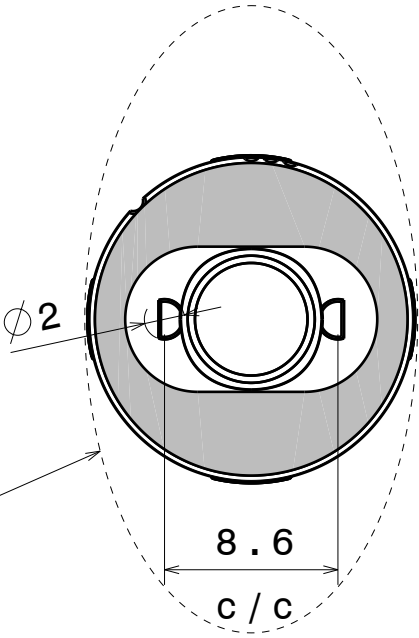
3

2

1

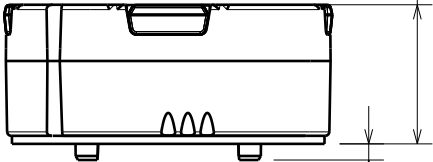


Oval beam direction



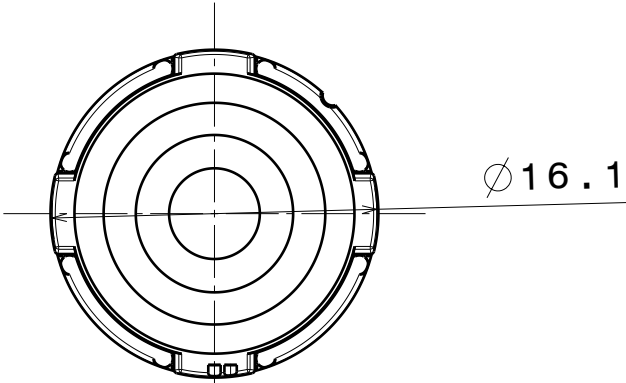
11.4

Spot version height



6.9

0.8



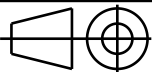
Top view

Tolerances if not otherwise shown  
According to DIN ISO 2768-1  
Linear measures:  
Up to 30mm class M, otherwise class C.  
According to DIN ISO 2768-2  
Form and position: class L

LEDiL

Ledil Oy  
Salorankatu 10  
FIN 24240 SALO  
Finland

THIRD ANGLE PROJECTION:



DRAWING TITLE

TINA3 Datasheet

This drawing is the property  
of LEDiL Oy. It may not be  
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agreement with LEDiL Oy."

SIZE

A4

PART NUMBER

-

SCALE

4:3

WEIGHT

-

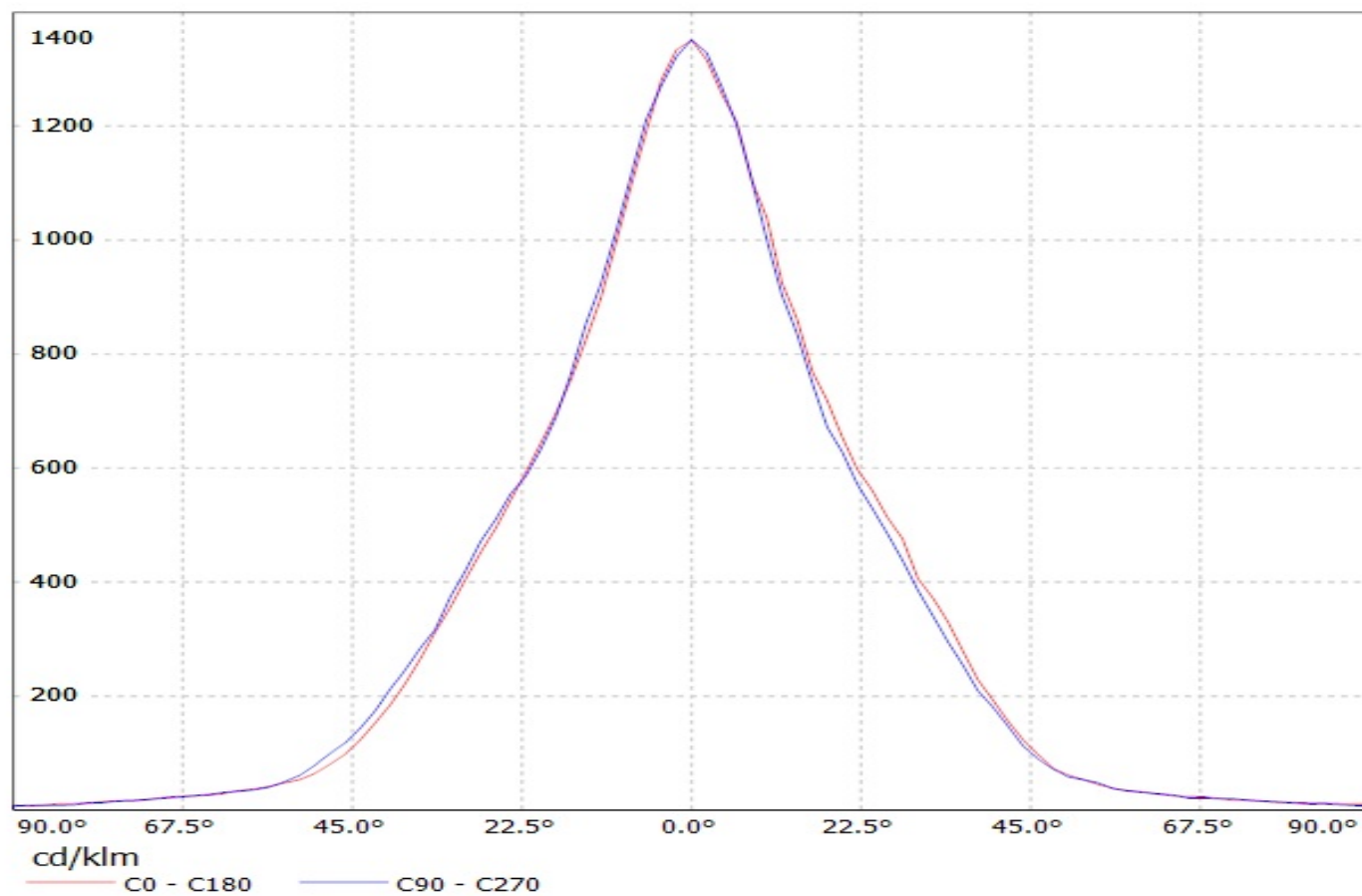
SHEET

1 / 1

D

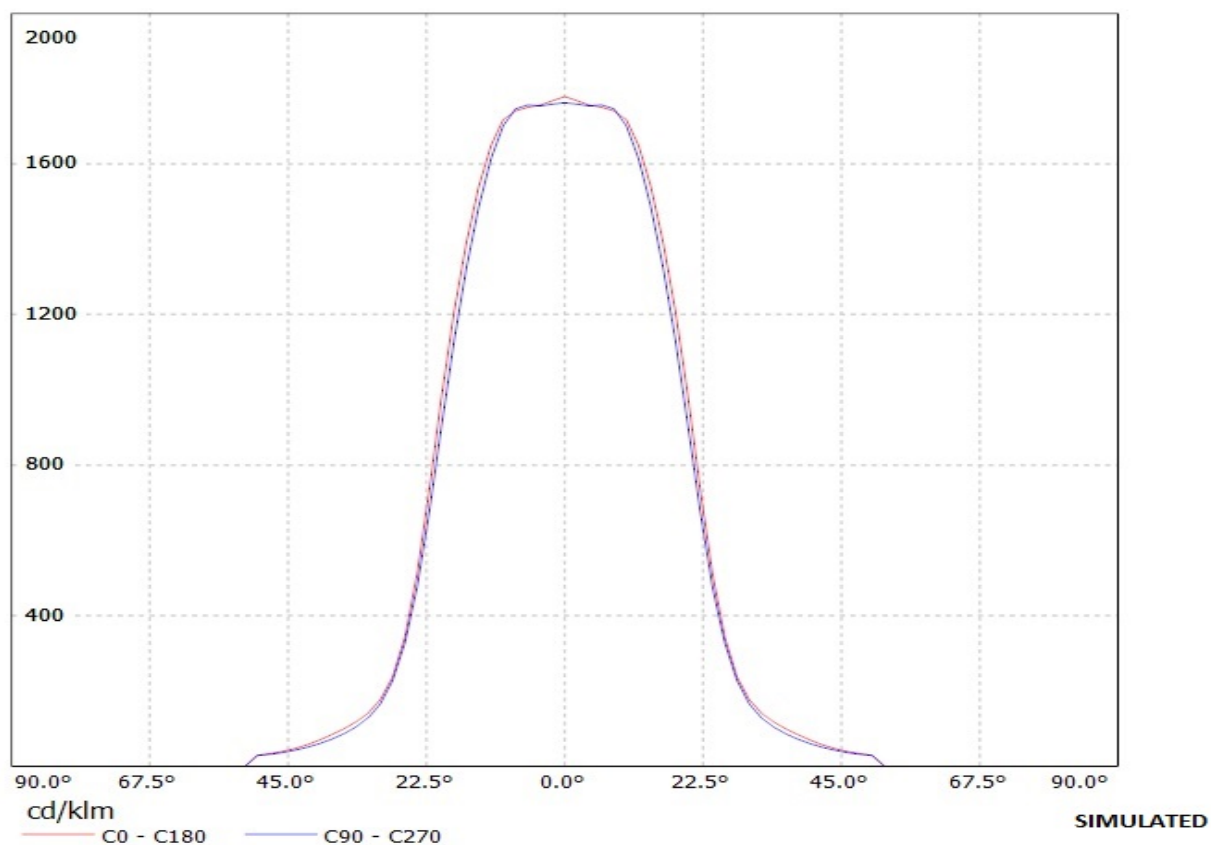
A

Luminaire: Ledil Oy CA12892\_TINA3-WW (Cree XP-E 76lm @ 250mA) Efficiency=93%  
Lamps: 1 x Cree XP-E 76lm @ 250mA



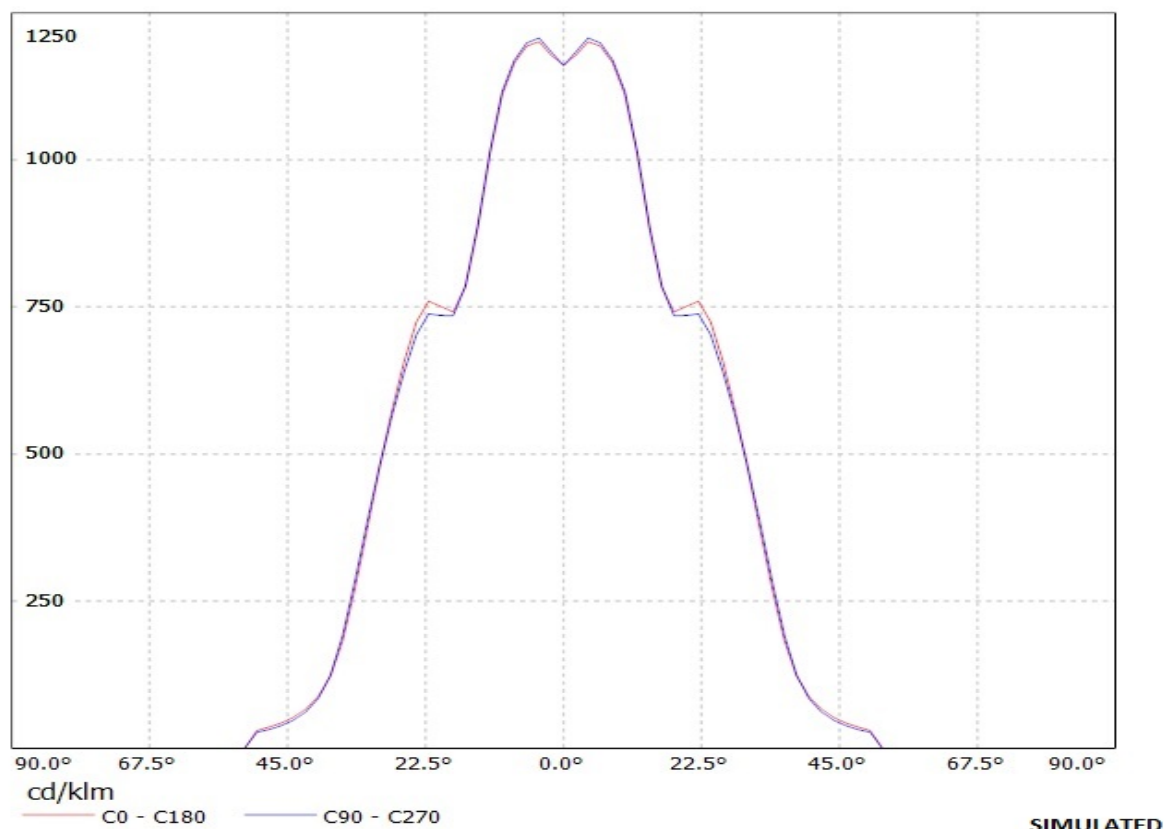
**Ledil Oy FA11824\_Tina3-W-XP FA11824\_Tina3-W-XP Cree XP-E white 72lm @ 250mA / LDC (Linear)**

Luminaire: Ledil Oy FA11824\_Tina3-W-XP FA11824\_Tina3-W-XP Cree XP-E white 72lm @ 250mA  
Lamps: 1 x Cree XP-E white 72lm @ 250mA



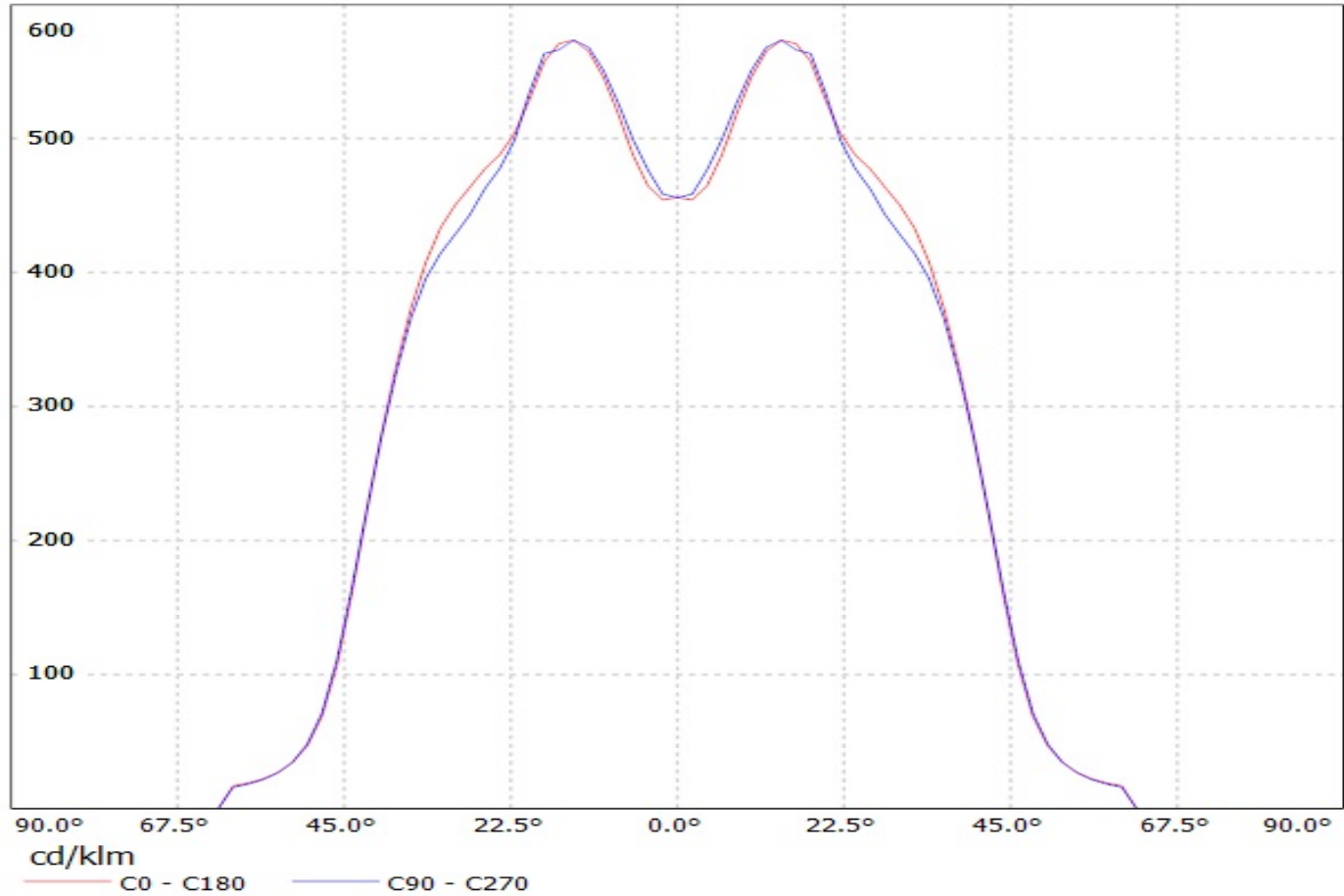
**Ledil Oy FA11825\_Tina3-WW-XP FA11825\_Tina3-WW-XP Cree XP-E (white) 72lm @ 250mA / LDC (Linear)**

Luminaire: Ledil Oy FA11825\_Tina3-WW-XP FA11825\_Tina3-WW-XP Cree XP-E (white) 72lm @ 250mA  
Lamps: 1 x Cree XP-E white

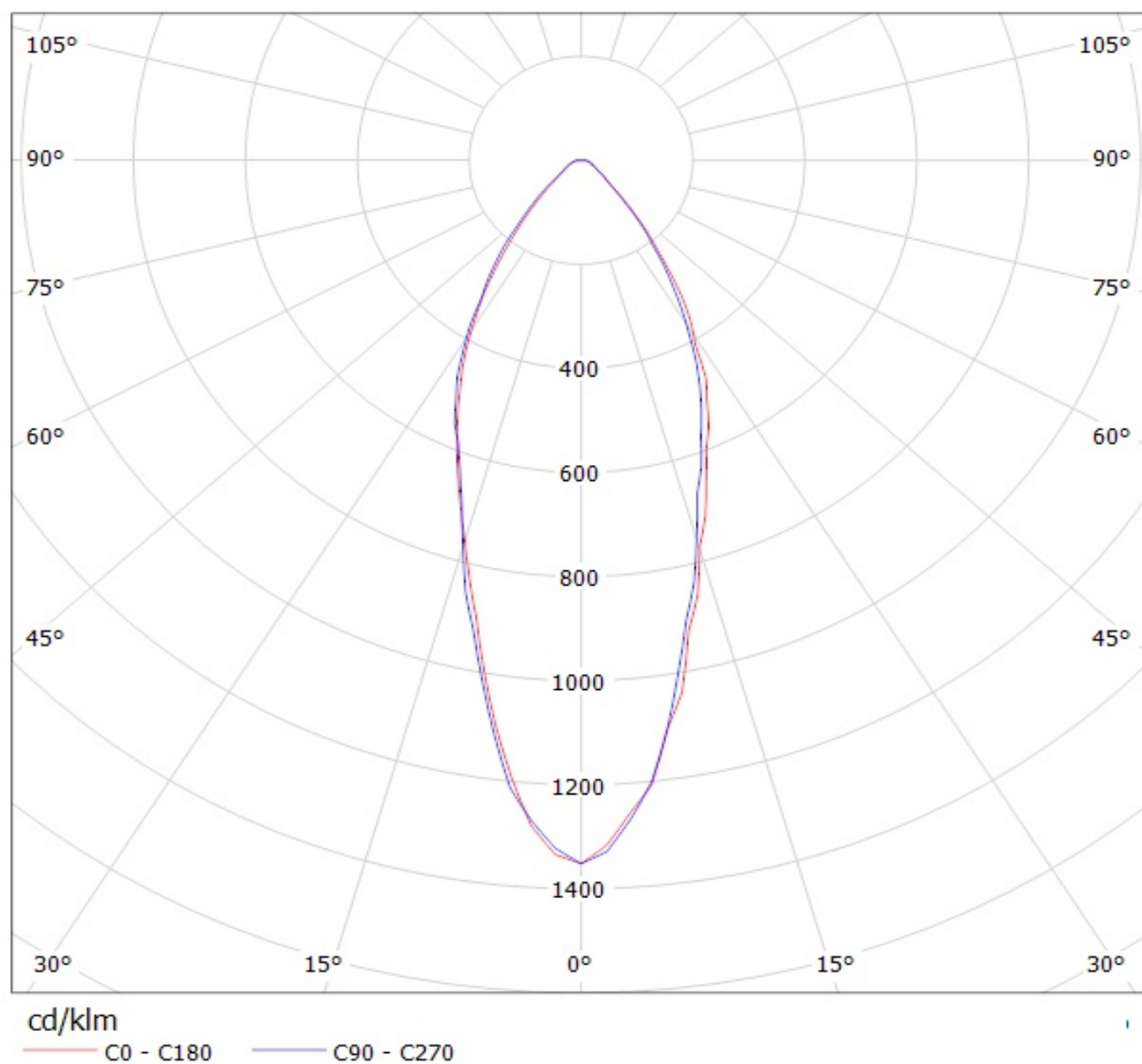




Luminaire: Ledil Oy FA11826\_Tina3-WWW-XP FA11826\_Tina3-WWW-XP Cree XP-E white 75lm @ 250mA  
Lamps: 1 x Cree XP-E white

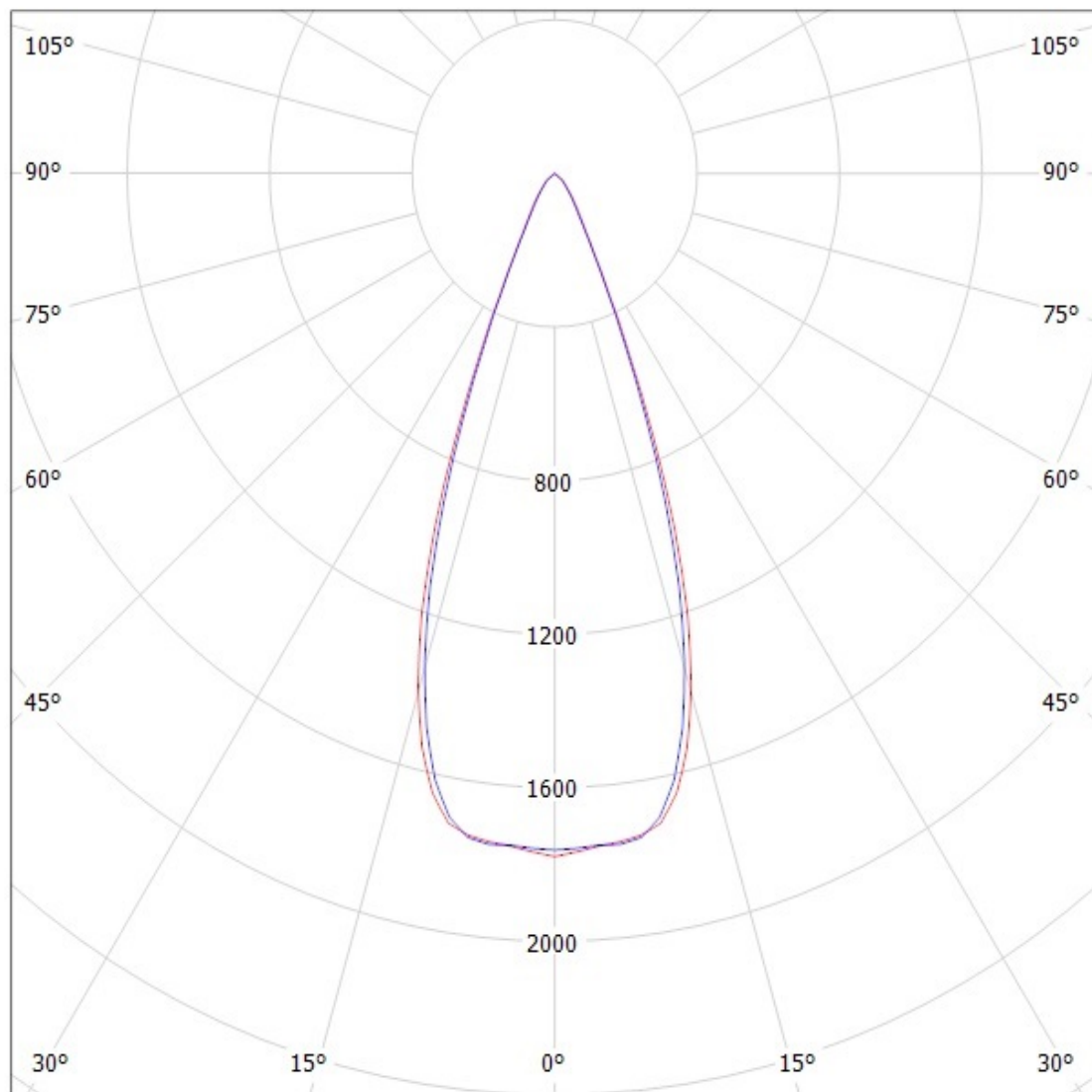


Luminaire: Ledil Oy CA12892\_TINA3-WW (Cree XP-E 76lm @ 250mA) Efficiency=93%  
Lamps: 1 x Cree XP-E 76lm @ 250mA



**Ledil Oy FA11824\_Tina3-W-XP FA11824\_Tina3-W-XP Cree XP-E white 72lm @ 250mA / LDC  
(Polar)**

Luminaire: Ledil Oy FA11824\_Tina3-W-XP FA11824\_Tina3-W-XP Cree XP-E white 72lm @ 250mA  
Lamps: 1 x Cree XP-E white 72lm @ 250mA



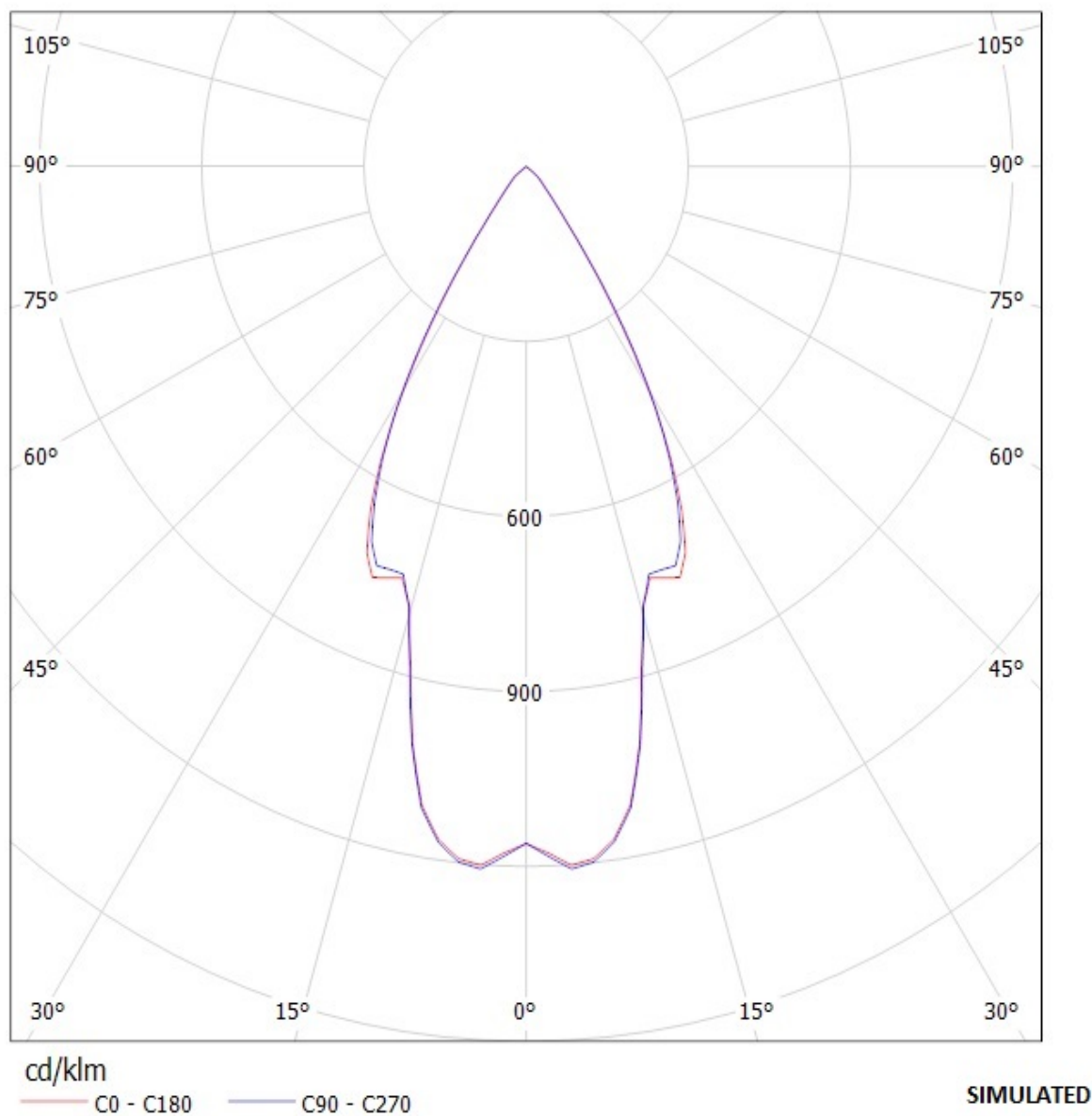
cd/klm

— C0 - C180 — C90 - C270

**SIMULATED**

**Ledil Oy FA11825\_Tina3-WW-XP FA11825\_Tina3-WW-XP Cree XP-E (white) 72lm @ 250mA / LDC  
(Polar)**

Luminaire: Ledil Oy FA11825\_Tina3-WW-XP FA11825\_Tina3-WW-XP Cree XP-E (white) 72lm @ 250mA  
Lamps: 1 x Cree XP-E white



Luminaire: Ledil Oy FA11826\_Tina3-WWW-XP FA11826\_Tina3-WWW-XP Cree XP-E white 75lm @ 250mA  
Lamps: 1 x Cree XP-E white

