

**Product number FA10886_TINA-RS**

Family	Tina	FWHM	10 degrees
Type	Assembly	Efficiency	93 %
LED	Golden Dragon+	cd/Im	20.100
Color	White	Gerber File	Available
Diameter	16.1 mm		
Height	10.1 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	PC		
Fastening	Tape		
Status	On production		

**Product number FA10642_TINA-D**

Family	Tina	FWHM	13 degrees
Type	Assembly	Efficiency	93 %
LED	Golden Dragon+	cd/Im	0.070
Color	White	Gerber File	Available
Diameter	16.1 mm		
Height	10.1 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	PC		
Fastening	Tape		
Status	On production		

**Product number FA11199_TINA-O**

Family	Tina	FWHM	14+34 degrees
Type	Assembly	Efficiency	90 %
LED	Golden Dragon+	cd/Im	6.500
Color	White	Gerber File	Available
Diameter	16.1 mm		
Height	10.1 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	PC		
Fastening	Tape		
Status	On production		

**Product number FA10643_TINA-M**

Family	Tina	FWHM	30 degrees
Type	Assembly	Efficiency	92 %
LED	Golden Dragon+	cd/Im	3.160
Color	White	Gerber File	Available
Diameter	16.1 mm		
Height	10.1 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	PC		
Fastening	Tape		
Status	On production		



PRODUCT DATASHEET

Tina series

last update 4/3/2014

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.

GENERAL INFORMATION

- Product series especially designed & optimized for Golden Dragon+ 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>

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

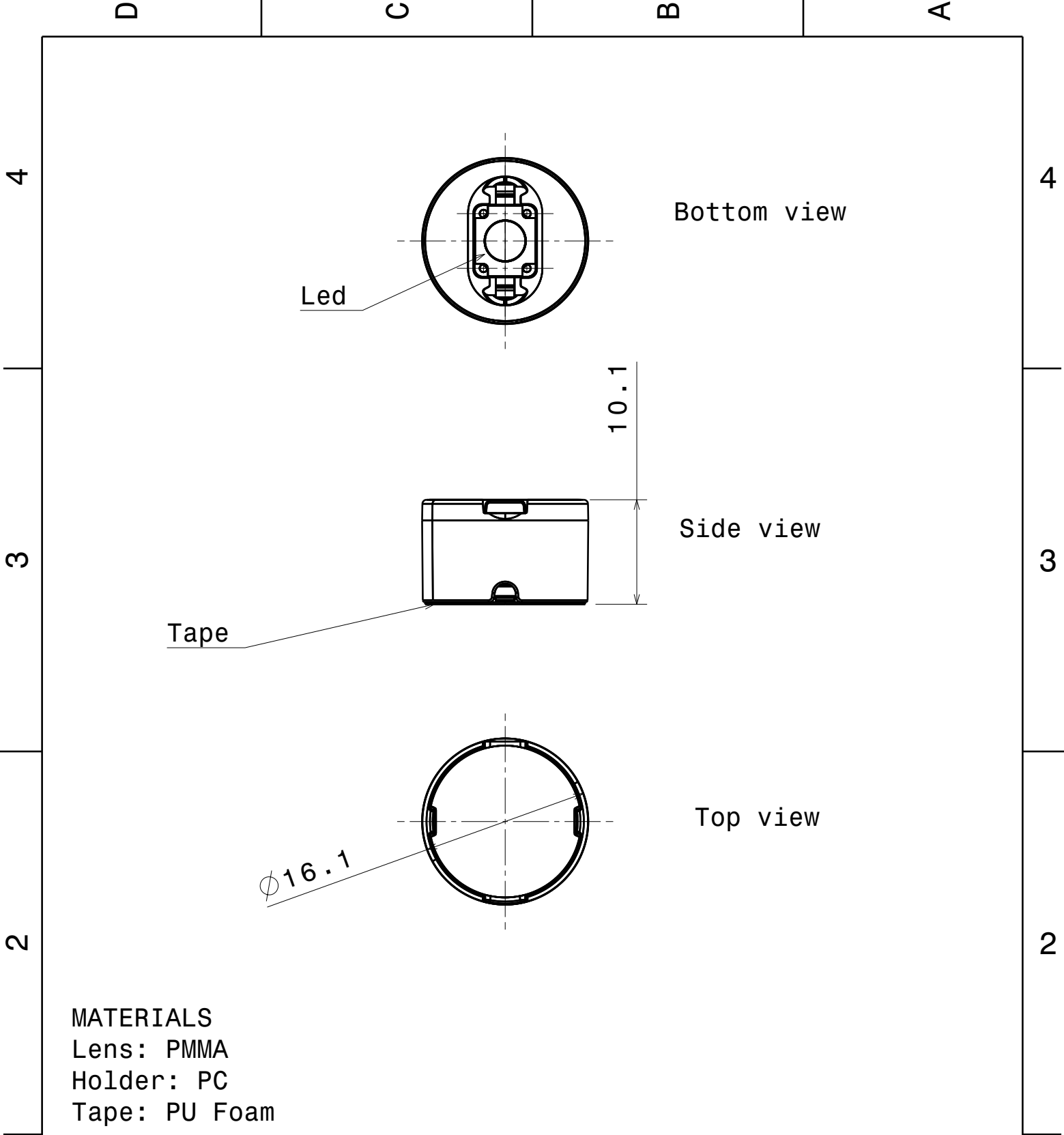
- Fastening to heat sink with a PU foam adhesive tape of automotive grade. Please find fastening details by clicking link: http://www.ledil.com/datasheets/DataSheet_TAPE.pdf

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 board 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.

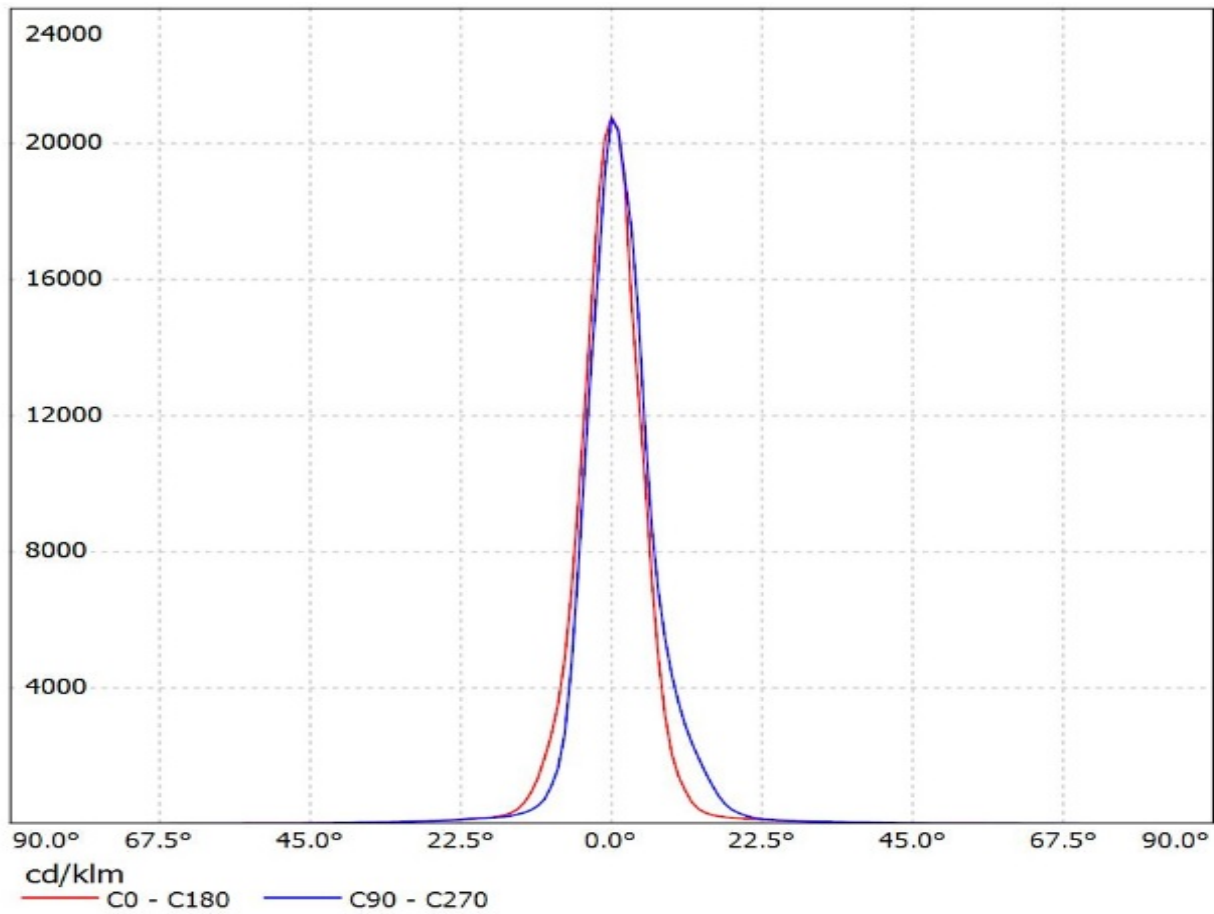
If cleaning of PCB surfaces is needed, please follow strictly the cleaning instructions of your LED manufacturer - this is important as cleaning shall under no circumstances damage LEDs or other electronics components on the PCB.

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.



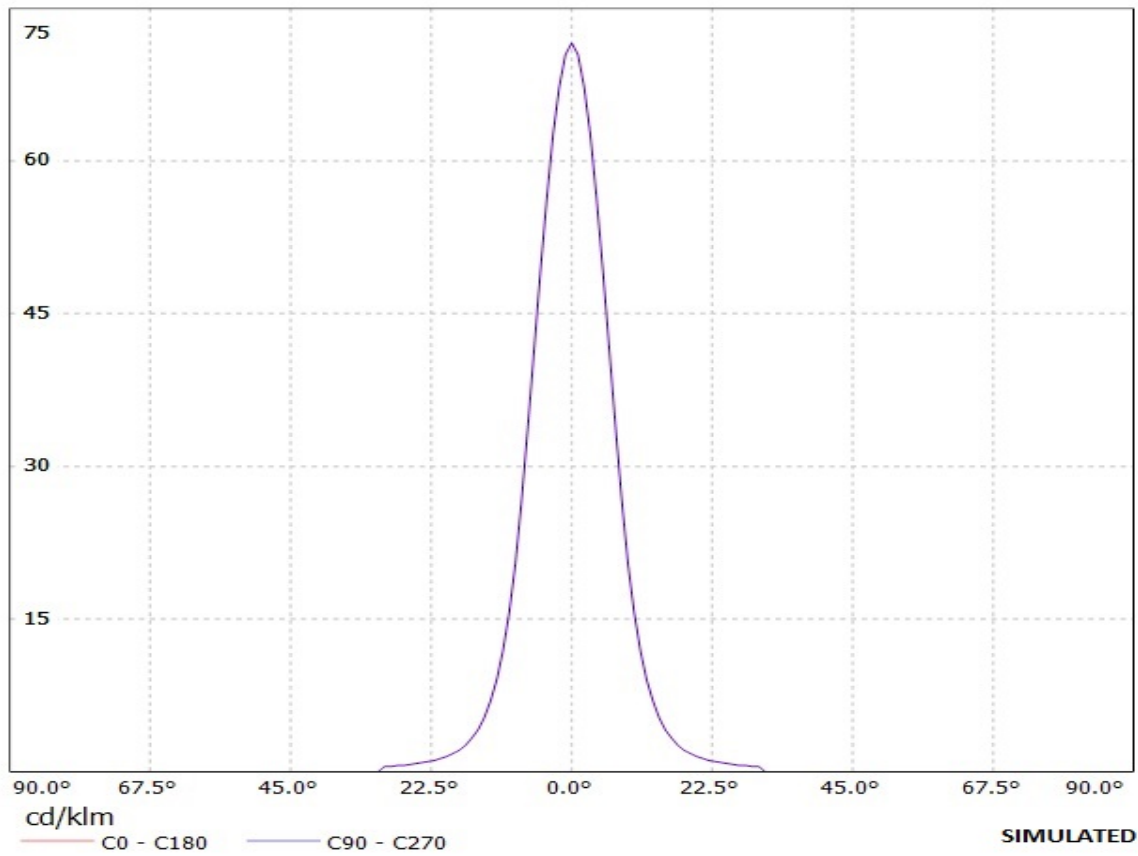
This drawing is our property. It can't be reproduced or communicated without our written agreement.		<div><div>LEDIL</div><div>L T F F</div><div>e e l i n</div><div>n h d</div></div>			
		DRAWING TITLE			
DRAWN BY p	DATE 23.10.2008	Datasheet Assembly Tina-0-Plus			
CHECKED BY t k	DATE 25.09.2008	SIZE A4	DRAWING NUMBER		REV 0.1
DESIGNED BY HH	DATE 22.07.2008	SCALE 2 : 1	WEIGHT (g)	-	SHEET 1 / 1

Luminaire: LEDiL Oy FA10886_TINA-RS_(Golden_Dragon+)
Lamps: 1 x Osram_Golden_Dragon_Plus_(LCW_W5AM-KYKZ-4L8N-Z)_66.0029lm@250mA_P=0.785386W_I=249.9mA



Ledil Oy FA10642_Tina-0-Plus-D FA10642_Tina-0-Plus-D / LDC (Linear)

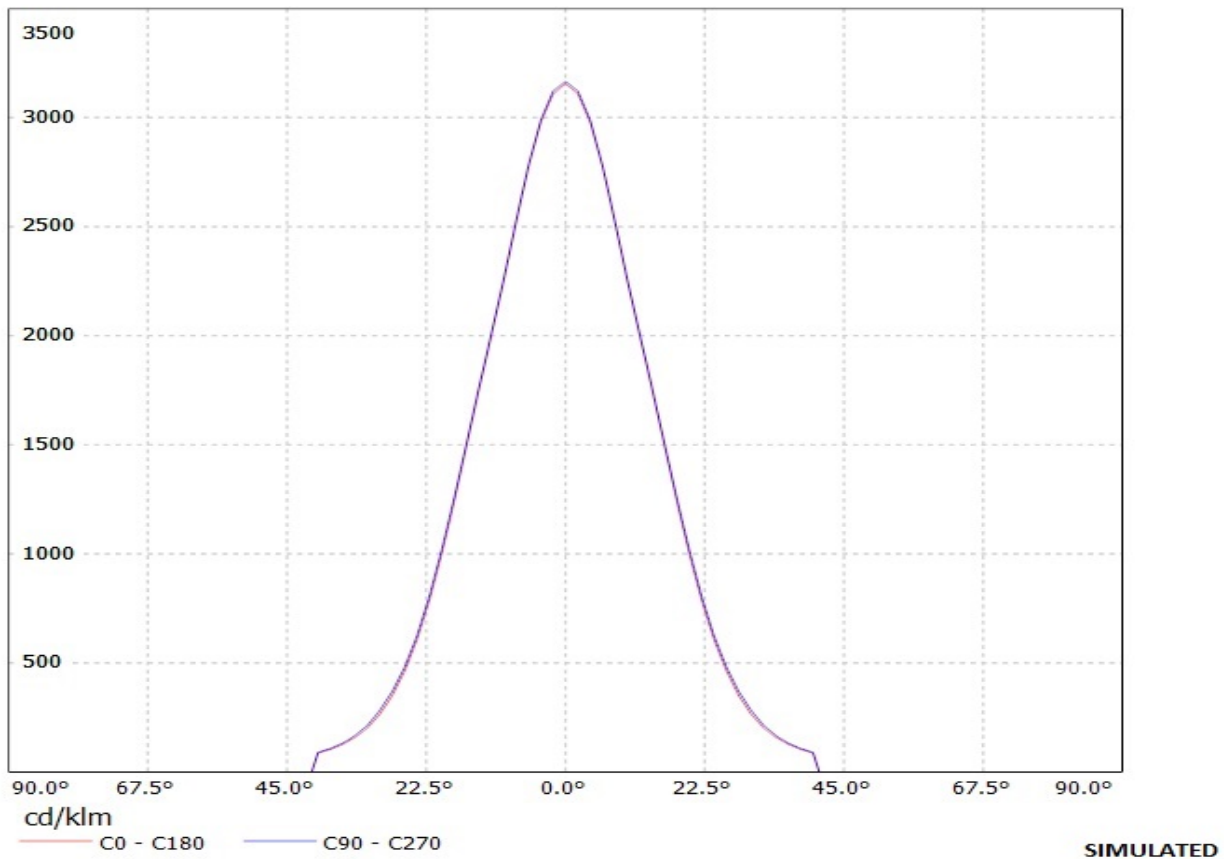
Luminaire: Ledil Oy FA10642_Tina-0-Plus-D FA10642_Tina-0-Plus-D
Lamps: 1 x Golden Dragon +



Ledil Oy FA10643_Tina-0-Plus-M FA10643_Tina-0-Plus-M / LDC (Linear)

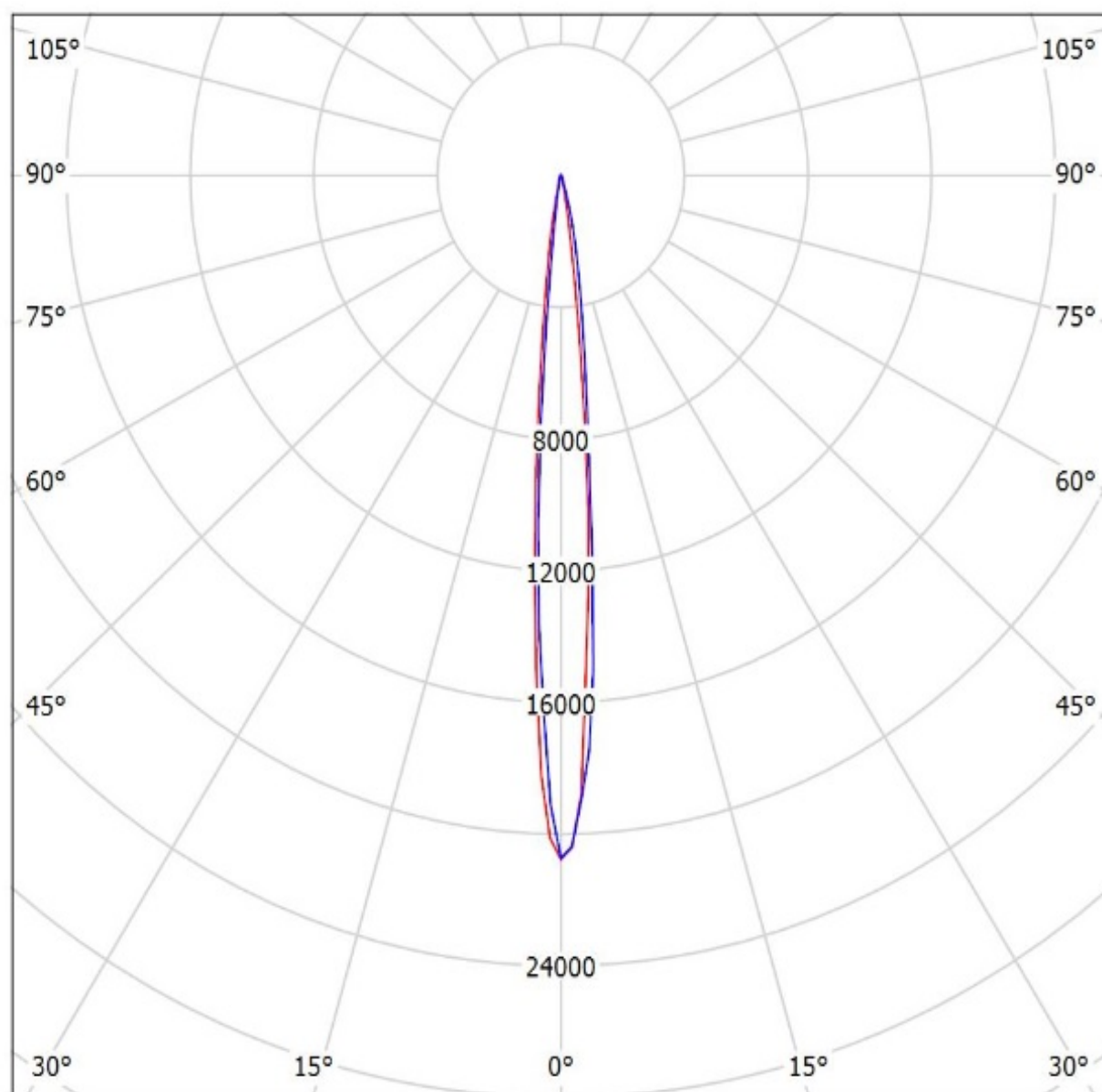
Luminaire: Ledil Oy FA10643_Tina-0-Plus-M FA10643_Tina-0-Plus-M

Lamps: 1 x Osram-os Golden Dragon+



Luminaire: LEDiL Oy FA10886_TINA-RS_(Golden_Dragon+)

Lamps: 1 x Osram_Golden_Dragon_Plus_(LCW_W5AM-KYKZ-4L8N-Z)_66.0029lm@250mA_P=0.785386W_I=249.9mA



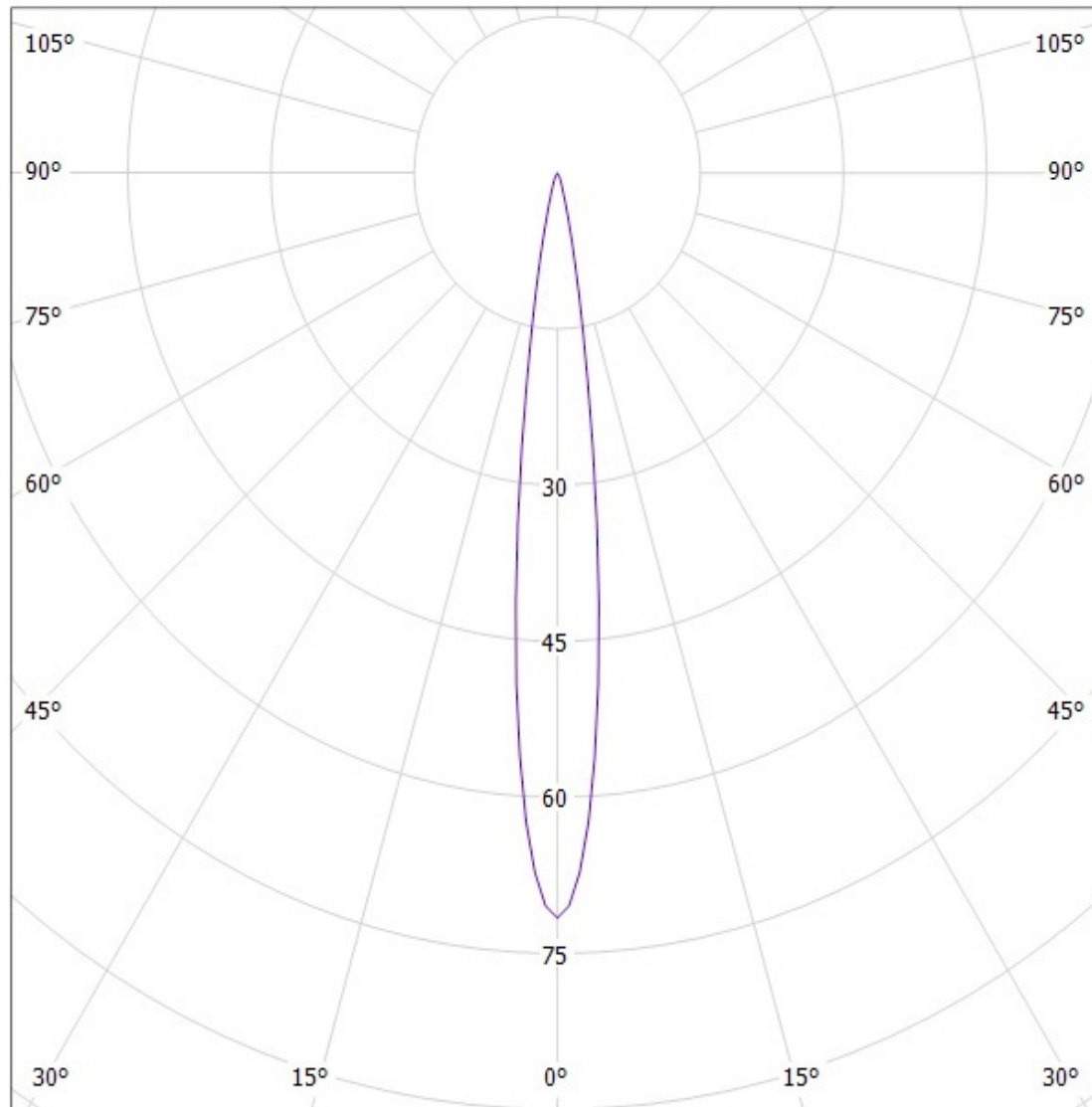
cd/klm

— C0 - C180 — C90 - C270

Ledil Oy FA10642_Tina-0-Plus-D FA10642_Tina-0-Plus-D / LDC (Polar)

Luminaire: Ledil Oy FA10642_Tina-0-Plus-D FA10642_Tina-0-Plus-D

Lamps: 1 x Golden Dragon +



cd/klm

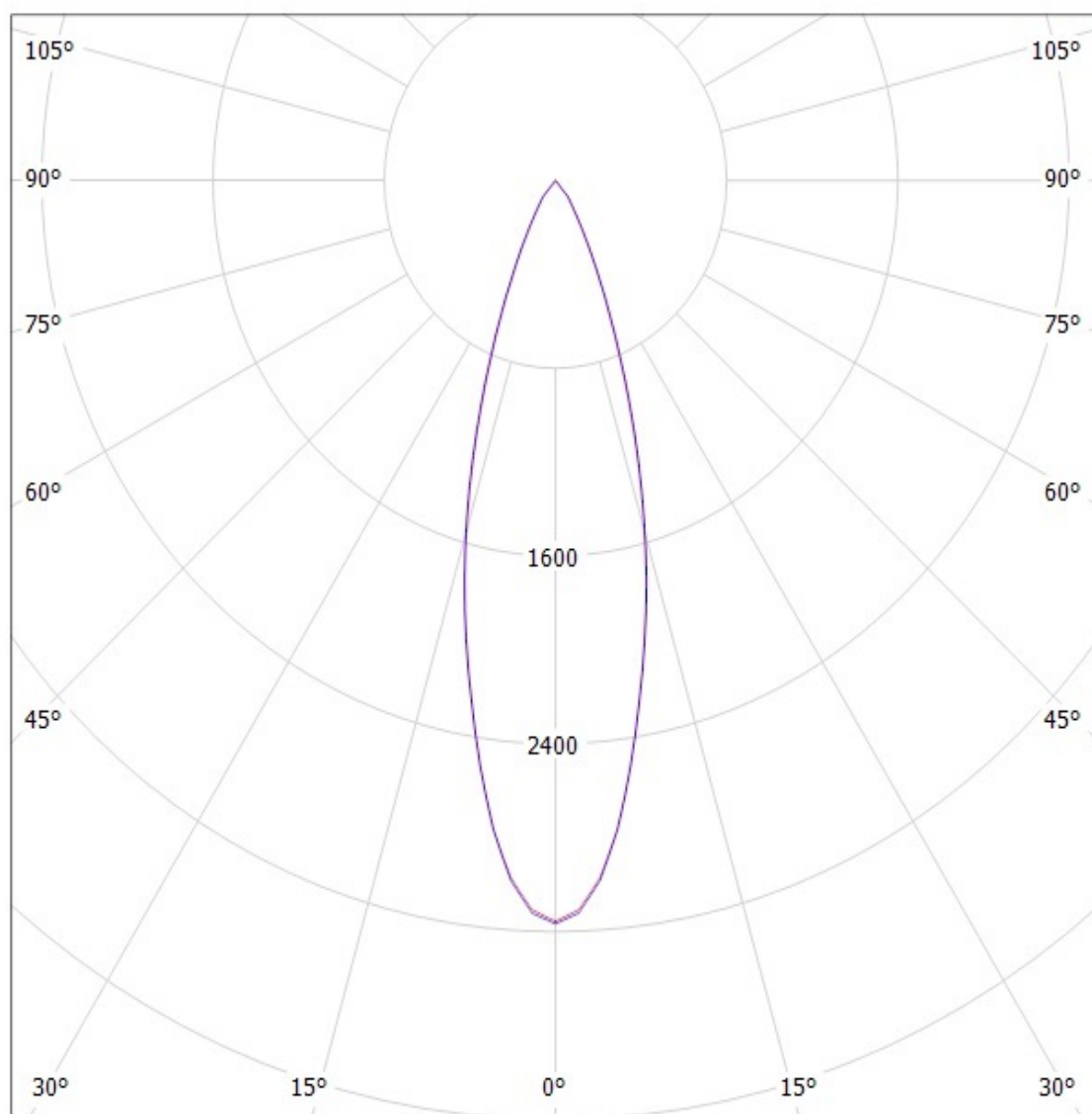
— C0 - C180 — C90 - C270

SIMULATED

Ledil Oy FA10643_Tina-0-Plus-M FA10643_Tina-0-Plus-M / LDC (Polar)

Luminaire: Ledil Oy FA10643_Tina-0-Plus-M FA10643_Tina-0-Plus-M

Lamps: 1 x Osram-os Golden Dragon+



cd/klm

— C0 - C180 — C90 - C270

SIMULATED