

**Ordering number FA12038_TINA-RS**

Family	Tina	FWHM	17 degrees
Type	Assembly	Efficiency	90 %
LED	LUXEON Rebel ES	cd/Im	7.830
Color	White	Gerber File	Available
Diameter	16.1 mm		
Height	9.4 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	PC		
Fastening	Pin, tape		
Status	Ready		

Ordering number FA12310_TINA-D

Family	Tina	FWHM	19 degrees
Type	Assembly	Efficiency	88 %
LED	LUXEON Rebel ES	cd/Im	5.440
Color	White	Gerber File	Available
Diameter	16.1 mm		
Height	9.4 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	PC		
Fastening	Pin, tape		
Status	Ready		

Ordering number FA12040_TINA-M

Family	Tina	FWHM	28 degrees
Type	Assembly	Efficiency	88 %
LED	LUXEON Rebel ES	cd/Im	2.360
Color	White	Gerber File	Available
Diameter	16.1 mm		
Height	9.4 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	PC		
Fastening	Pin, tape		
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.



PRODUCT DATASHEET

Tina series

last update 15/11/2012

PHILIPS
LUMILEDS

GENERAL INFORMATION

- Product series especially designed & optimized for LUXEON Rebel ES 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.

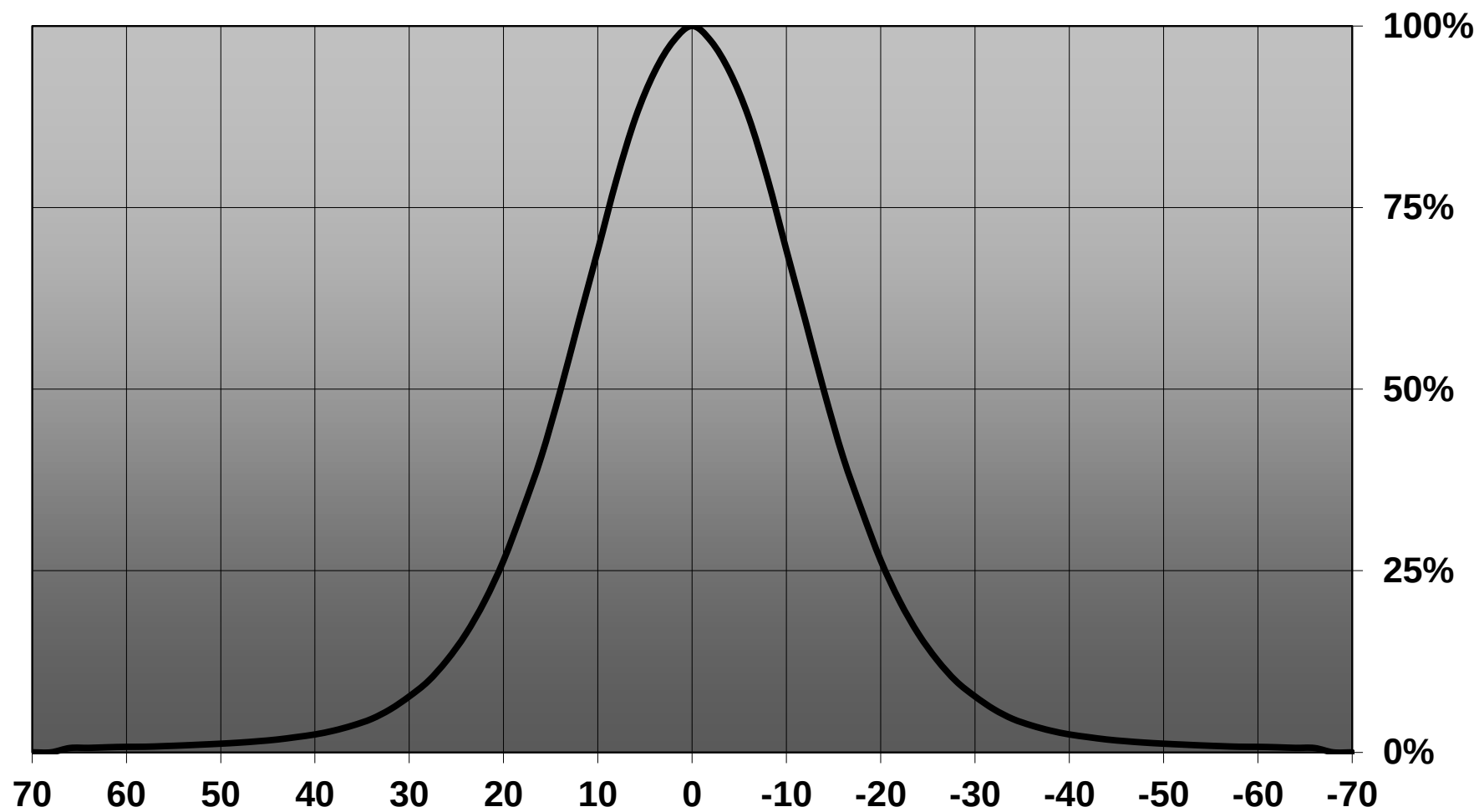
Please find more information about used material from below:

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).

Relative intensity of Tina-RE-ES-M



4

3

2

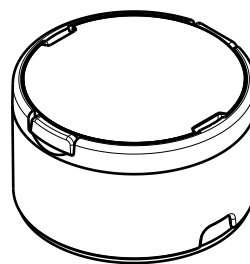
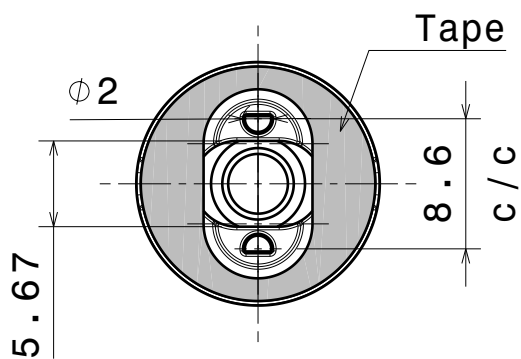
1

D

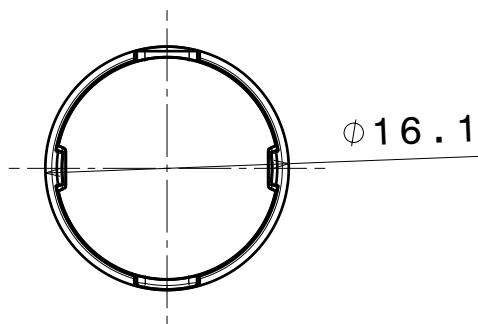
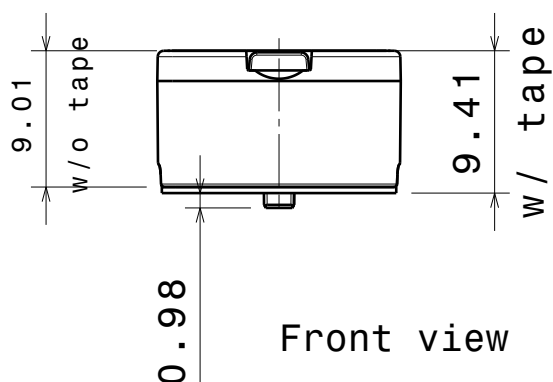
C

B

A



Isometric view



Materials
Lens: PMMA
Holder: PC
Tape: PU Foam

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or communicated without
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LEDiL

Ledil Oy
Salorankatu 10
FIN 24240 SALO
Finland

DRAWING TITLE

Mechanical Drawing

DRAWN BY

DATE

as

10.9.2012

TINA-RE

CHECKED BY

DATE

sn

-

SIZE

PART NUMBER

REV

A4

TINA-RE

001

DESIGNED BY

DATE

-

-

SCALE

2:1

WEIGHT

1,46 g

SHEET

1/1

D

A

4

3

2

1