OSRAM
LED Light for you

Ordering number   FA11208_TINA-RS

Family	Tina	FWHM	11 degrees
Type	Assembly	Efficiency	90 %
LED	Oslon SSL 80	cd/lm	14.300
Color	Black	Gerber File	Available
Diameter	16.1 mm		
Height	9.5 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	PC		
Fastening	Pin, tape		
Status	Ready		

Ordering number   FA11205_TINA-D

Family	Tina	FWHM	12 degrees
Type	Assembly	Efficiency	89 %
LED	Oslon SSL 80	cd/lm	10.100
Color	Black	Gerber File	Available
Diameter	16.1 mm		
Height	9.5 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	PC		
Fastening	Pin, tape		
Status	Ready		

Ordering number   FA11206_TINA-M

Family	Tina	FWHM	24 degrees
Type	Assembly	Efficiency	83 %
LED	Oslon SSL 80	cd/lm	2.290
Color	Black	Gerber File	Available
Diameter	16.1 mm		
Height	9.5 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	PC		
Fastening	Pin, tape		
Status	Ready		

Ordering number   FA11204_TINA-O

Family	Tina	FWHM	34+12 degrees
Type	Assembly	Efficiency	80 %
LED	Oslon SSL 80	cd/lm	3.800
Color	Black	Gerber File	Available
Diameter	16.1 mm		
Height	9.5 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	PC		
Fastening	Pin, tape		
Status	Ready		

OSRAM
LED Light for you

Ordering number   FA11207_TINA-W

Family	Tina	FWHM	48 degrees
Type	Assembly	Efficiency	87 %
LED	Oslon SSL 80	cd/lm	1.100
Color	Black	Gerber File	Available
Diameter	16.1 mm		
Height	9.5 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	PC		
Fastening	Pin, tape		
Status	Ready		

Ordering number   FA11027_TINA-WW

Family	Tina	FWHM	66 degrees
Type	Lens	Efficiency	87 %
LED	Oslon SSL 80	cd/lm	0.800
Color	Black	Gerber File	Available
Diameter	16.1 mm		
Height	9.5 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.

GENERAL INFORMATION

- Product series especially designed & optimized for Oslon SSL 80 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 (105 degrees of Celcius / 220 degrees of Fahrenheit). 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%208N%20UL94_Yellow%20Card.pdf
http://ledil.fi/sites/default/files/Documents/Technical/Material/PMMA%208N%20PLEXIGLAS-Datasheet.pdf
- Optic holder molded by high quality PC material (120 dergees 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 boar 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.
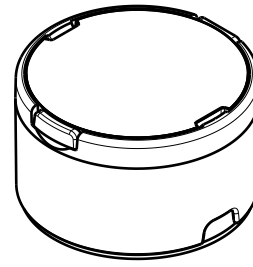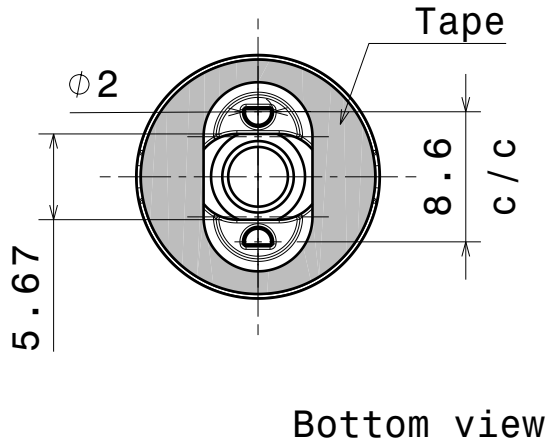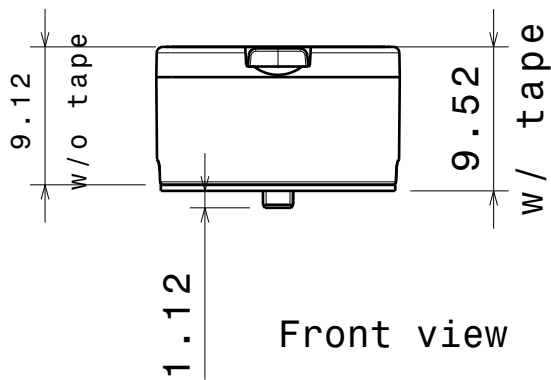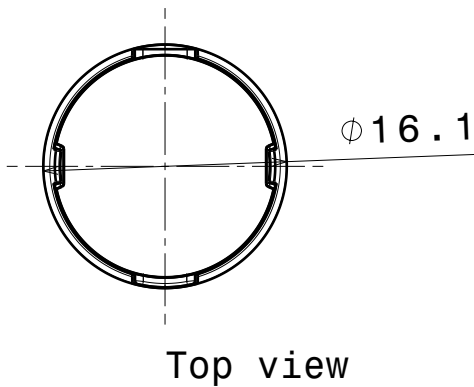
D | C | B | A

Tape

Bottom view

⌀2

5.67

8.6 c/c

Isometric view

Front view

9.12 w/o tape

9.52 w/ tape

1.12

Top view

⌀16.1

Materials
Lens: PMMA
Holder: PC
Tape: PU Foam

LEDiL

Ledil Oy
Salorankatu 10
FIN 24240 SALO
Finland

DRAWING TITLE | Mechanical Drawing

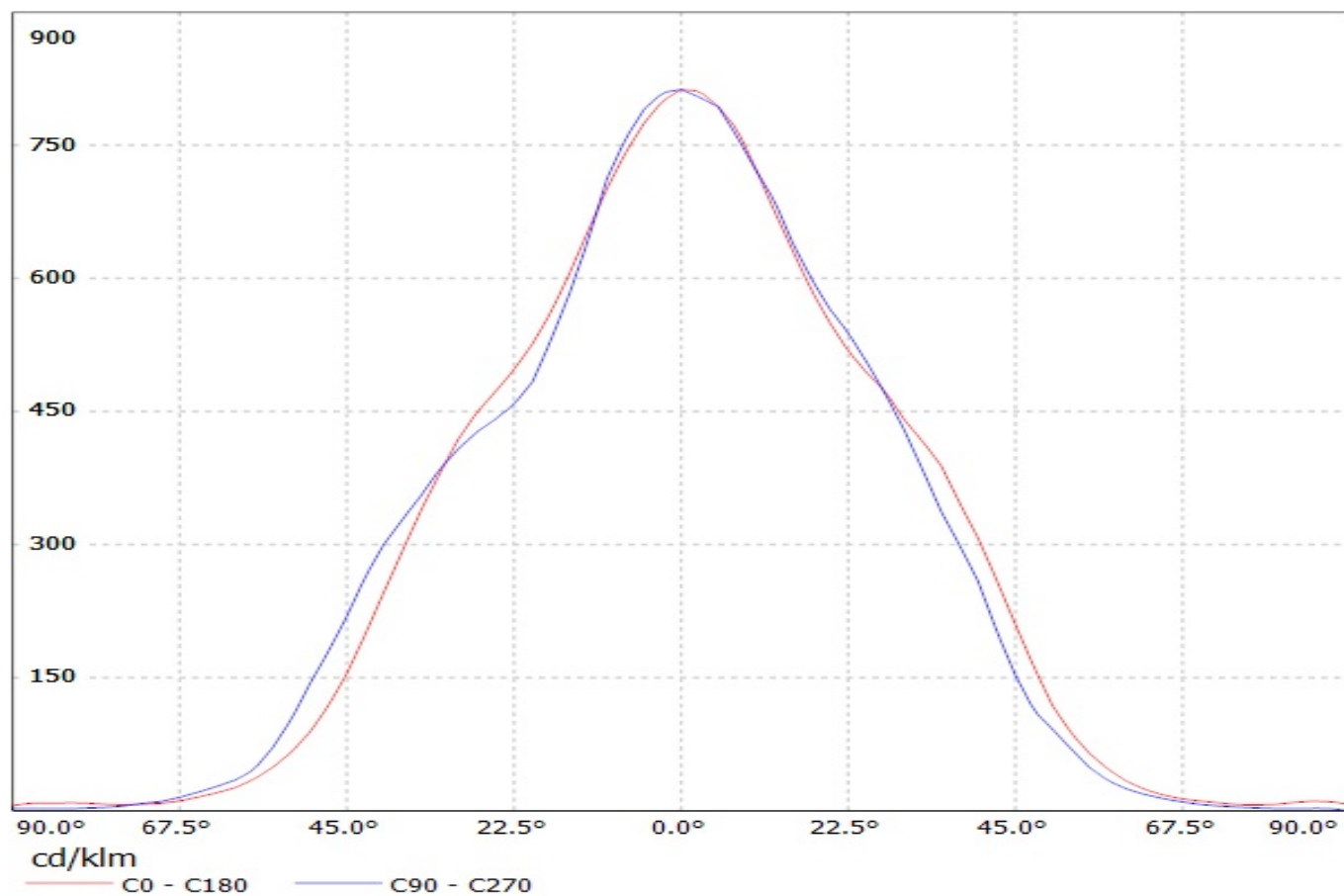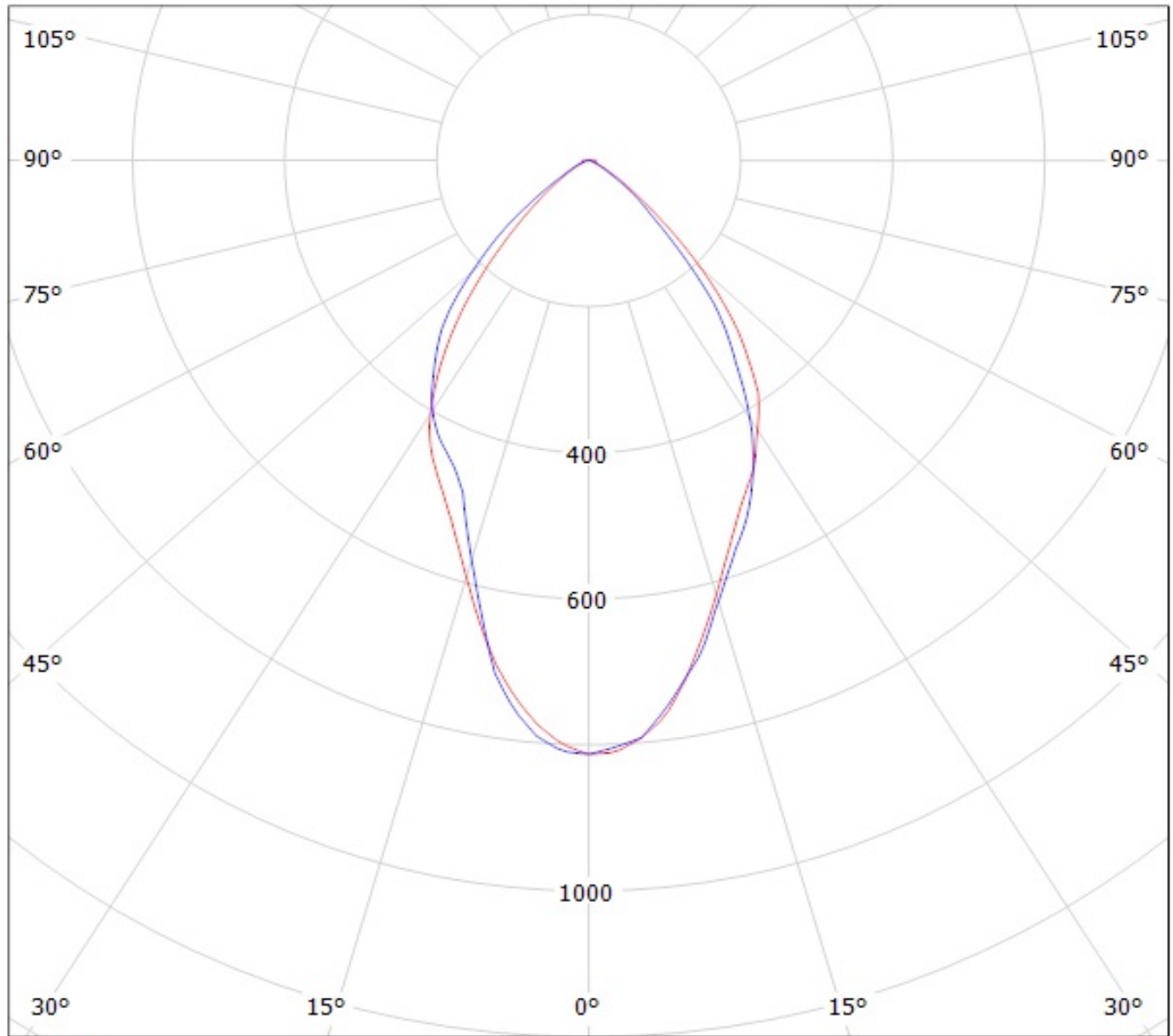| DRAWN BY	DATE		
as	10.9.2012	TINA-OSL	
CHECKED BY	DATE	SIZE	PART NUMBER	REV
sn	-	A4	TINA-OSL	001
DESIGNED BY	DATE			
-	-	SCALE 2:1	WEIGHT 1,47 g	SHEET 1/1

D | A

Luminaire: Ledil Oy FA11027_TINA-WW (Osram Oslon 80dg 85lm @ 250mA) Efficiency=87%
Lamps: 1 x Osram Oslon 80dg 85lm @ 250mA

cd/klm

C0 - C180   C90 - C270

Luminaire: Ledil Oy FA11027_TINA-WW (Osram Oslon 80dg 85lm @ 250mA) Efficiency=87%
Lamps: 1 x Osram Oslon 80dg 85lm @ 250mA

cd/klm

—— C0 - C180   —— C90 - C270