

Ordering number CA11959_LAURA-RS-PIN

Family	Laura	FWHM	8 degrees
Type	Assembly	Efficiency	93 %
LED	XP-E	cd/lm	33.200
Color	White	Gerber File	Available
Diameter	21.6 x 21.6 mm		
Height	13.1 mm		
Style	Square		
Optic Material	PMMA		
Holder Material	PC		
Fastening	Pin, tape		
Status	Ready		



Ordering number CA12011_LAURA-SS-PIN

Family	Laura	FWHM	11 degrees
Type	Assembly	Efficiency	93 %
LED	XP-E	cd/lm	16.500
Color	White	Gerber File	Available
Diameter	21.6 + 21.6 mm		
Height	13.1 mm		
Style	Square		
Optic Material	PMMA		
Holder Material	PC		
Fastening	Pin, tape		
Status	Ready		



Ordering number CA11960_LAURA-D-PIN

Family	Laura	FWHM	13 degrees
Type	Assembly	Efficiency	93 %
LED	XP-E	cd/lm	9.300
Color	White	Gerber File	Available
Diameter	21.6 + 21.6 mm		
Height	13.1 mm		
Style	Square		
Optic Material	PMMA		
Holder Material	PC		
Fastening	Pin, tape		
Status	Ready		



Ordering number CA11837_LAURA-M-PIN

Family	Laura	FWHM	30 degrees
Type	Assembly	Efficiency	93 %
LED	XP-E	cd/lm	2.300
Color	White	Gerber File	Available
Diameter	21.6 mm		
Height	13.1 mm		
Style	Square		
Optic Material	PMMA		
Holder Material	PC		
Fastening	Pin, tape		
Status	Ready		



Ordering number CA12012_LAURA-O-PIN

Family	Laura	FWHM	40+13 degrees
Type	Assembly	Efficiency	91 %
LED	XP-E	cd/lm	4.800
Color	White	Gerber File	Available
Diameter	21.6 + 21.6 mm		
Height	13.1 mm		
Style	Square		
Optic Material	PMMA		
Holder Material	PC		
Fastening	Pin, tape		
Status	Ready		

Ordering number CA12344_LAURA-W-PIN

Family	Laura	FWHM	47 degrees
Type	Assembly	Efficiency	92 %
LED	XP-E	cd/lm	0.740
Color	White	Gerber File	Available
Diameter	21.6 + 21.6 mm		
Height	13.1 mm		
Style	Square		
Optic Material	PMMA		
Holder Material	PC		
Fastening	Pin, tape		
Status	Ready		

Ordering number CA12325_LAURA-WW-PIN

Family	Laura	FWHM	66 degrees
Type	Assembly	Efficiency	86 %
LED	XP-E	cd/lm	0.700
Color	White	Gerber File	Available
Diameter	21.6 mm		
Height	13.1 mm		
Style	Square		
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 Laura series

last update 14/6/2012



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 (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%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 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

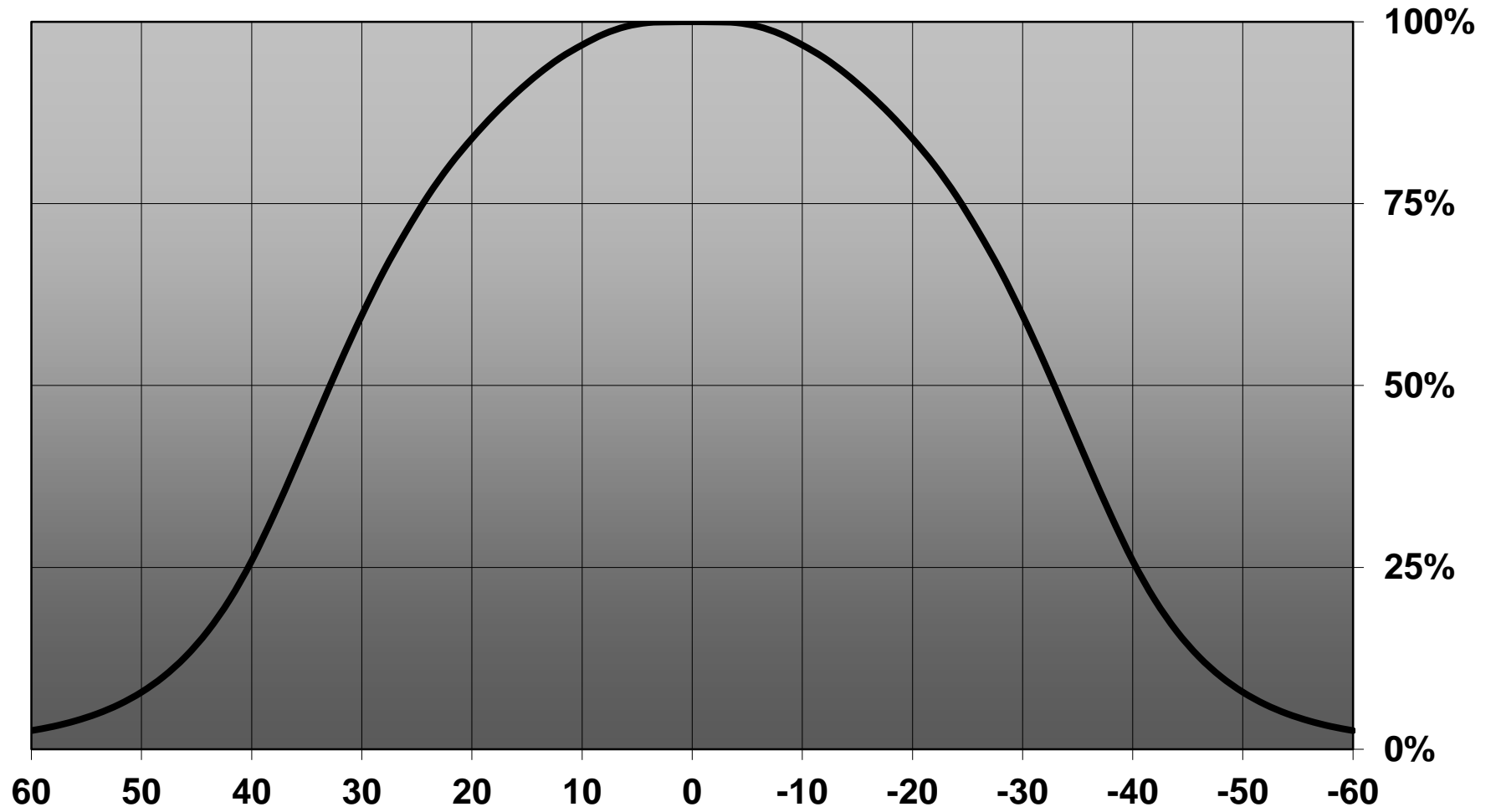
NOTE 1: We advise customer to ensure the suitability and sufficiency of the bond in the end product. For example, mechanical stress, vibration and holes on the surface of the circuit board weaken the strength of the tape.

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.

Relative intensity of CA12325_Laura-WW-PIN-WHT



D

C

B

A

4

4

3

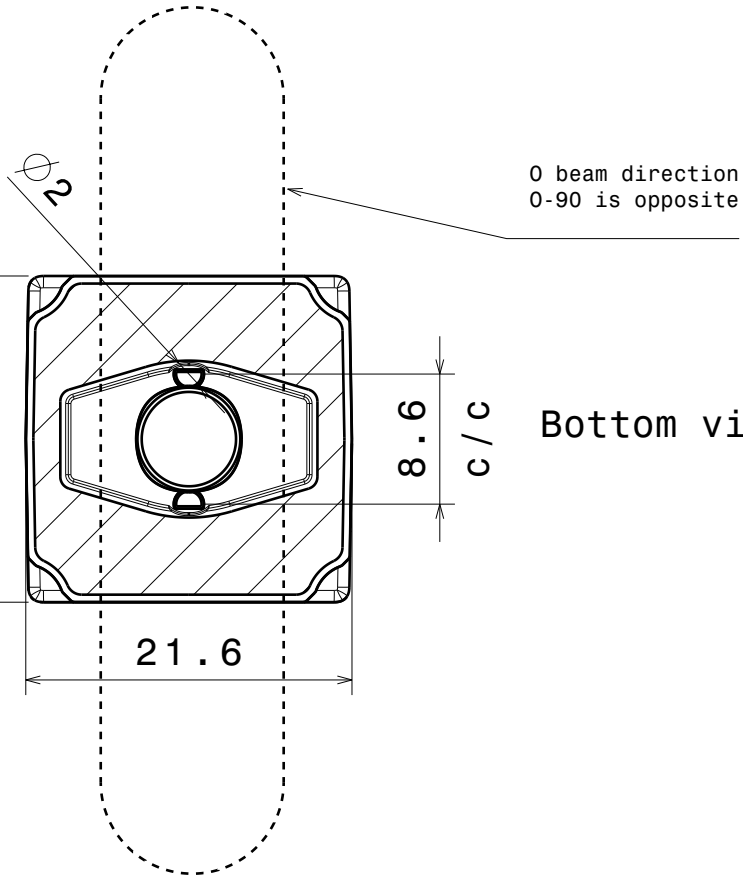
3

2

2

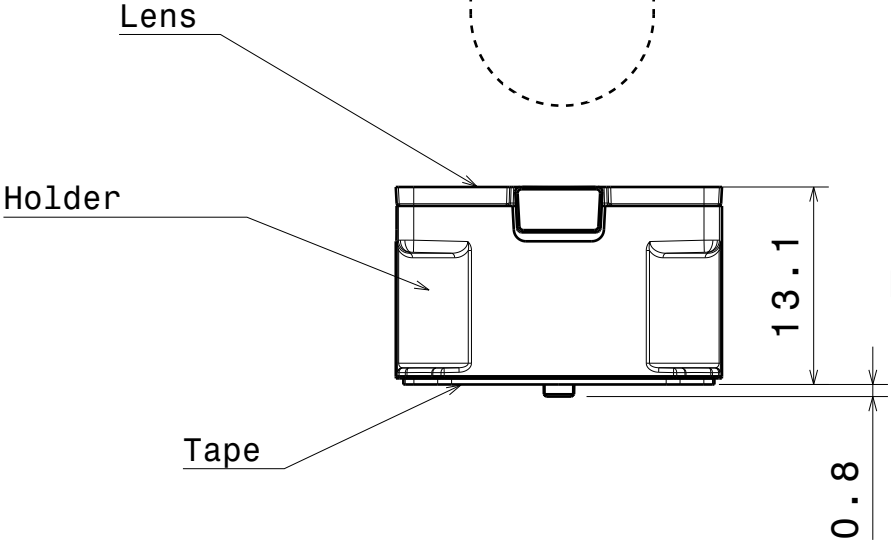
1

1



0 beam direction
0-90 is opposite

Bottom view



Front view

Materials:
 lens: PMMA
 holder: PC, black
 Tape: PU Foam

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DRAWING TITLE

Datasheet Laura-Pin-tape assy

DRAWN BY p	DATE v20.1.2012
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CHECKED BY s n	DATE 20.1.2012
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SIZE A4	DRAWING NUMBER -	REV 2
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DESIGNED BY hh/mav	DATE 04.11.2010
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SCALE 2:1	WEIGHT (g)	SHEET 1/1
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D

A