



Ordering number CX11352_LAURA-RS

Family	Laura	FWHM	11 degrees
Type	Assembly	Efficiency	93 %
LED	LUXEON Rebel ES	cd/lm	16.850
Color	White	Gerber File	Available
Diameter	21.6 mm		
Height	12.9 mm		
Style	Square		
Optic Material	PMMA		
Holder Material	PC		
Fastening	Tape		
Status	Ready		



Ordering number CX11645_LAURA-SS

Family	Laura	FWHM	13 degrees
Type	Assembly	Efficiency	93 %
LED	LUXEON Rebel ES	cd/lm	11.800
Color	White	Gerber File	Available
Diameter	21.6 mm		
Height	12.9 mm		
Style	Square		
Optic Material	PMMA		
Holder Material	PC		
Fastening	Tape		
Status	Ready		



Ordering number CX11359_LAURA-D

Family	Laura	FWHM	18 degrees
Type	Assembly	Efficiency	93 %
LED	LUXEON Rebel ES	cd/lm	4.000
Color	White	Gerber File	Available
Diameter	21.6X21.6 mm		
Height	12.9 mm		
Style	Square		
Optic Material	PMMA		
Holder Material	PC		
Fastening	Tape		
Status	Ready		



Ordering number CX11354_LAURA-M

Family	Laura	FWHM	31 degrees
Type	Assembly	Efficiency	88 %
LED	LUXEON Rebel ES	cd/lm	2.170
Color	White	Gerber File	Available
Diameter	21.6 mm		
Height	12.9 mm		
Style	Square		
Optic Material	PMMA		
Holder Material	PC		
Fastening	Tape		
Status	Ready		



Ordering number CX11364_LAURA-O

Family	Laura	FWHM	38+14 degrees
Type	Assembly	Efficiency	93 %
LED	LUXEON Rebel ES	cd/lm	-
Color	White	Gerber File	Available
Diameter	21.6 mm		
Height	12.9 mm		
Style	Square		
Optic Material	PMMA		
Holder Material	PC		
Fastening	Tape		
Status	Ready		



Ordering number CX12568_LAURA-W

Family	Laura	FWHM	47 degrees
Type	Assembly	Efficiency	89 %
LED	LUXEON Rebel ES	cd/lm	-
Color	White	Gerber File	Available
Diameter	21.6 mm		
Height	12.9 mm		
Style	Square		
Optic Material	PMMA		
Holder Material	PC		
Fastening	Tape		
Status	Ready		



Ordering number CX11524_LAURA-REF-W

Family	Laura	FWHM	68 degrees
Type	Reflector	Efficiency	81 %
LED	LUXEON Rebel ES	cd/lm	-
Color	White	Gerber File	Available
Diameter	21.6 mm		
Height	12.9 mm		
Style	Square		
Optic Material	PC		
Holder Material	PC		
Fastening	Tape		
Status	Ready		



Ordering number CX11768_LAURA-WW

Family	Laura	FWHM	68 degrees
Type	Assembly	Efficiency	90 %
LED	LUXEON Rebel ES	cd/lm	0.630
Color	White	Gerber File	Available
Diameter	21.6 mm		
Height	12.9 mm		
Style	Square		
Optic Material	PMMA		
Holder Material	PC		
Fastening	Tape		
Status	Ready		



Ordering number CX12983_LAURA-REF-XW

Family	Laura	FWHM	72 degrees
Type	Assembly	Efficiency	84 %
LED	LUXEON Rebel ES	cd/lm	0.640
Color	White	Gerber File	Available
Diameter	21.6 + 21.6 mm		
Height	12.9 mm		
Style	Square		
Optic Material	PC		
Holder Material	PC		
Fastening	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 17/9/2012



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 (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>

- Lens material optical grade PC with high UV and temperature resistance (120 degrees of Celcius / 248 degrees of Fahrenheit). Allows use of high current and temperature conditions.

Please find more information about used materials from below:

http://ledil.fi/sites/default/files/Documents/Technical/Material/PC%20Makrolon%202400_2407_2456_2458-UL.pdf

- Reflector is made of aluminium coated PC (120 degrees of Celcius / 248 degrees of Fahrenheit) with protective lacquer (110 degrees of Celcius / 230 degrees of Fahrenheit).

- 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.

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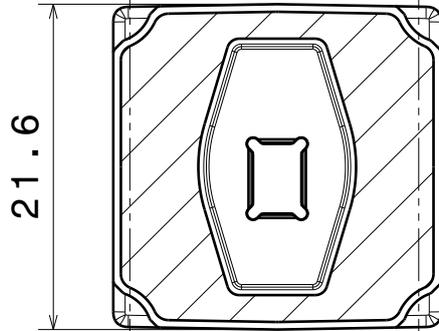
B

A

4

4

Oval-version
beam direction



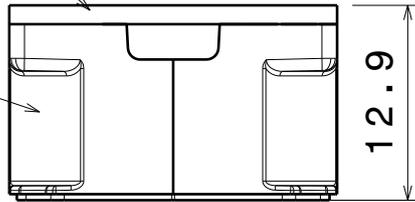
Bottom view

3

3

Optic

Holder



Front view

2

2

Materials
 lens: PMMA
 holder: PC White
 Tape: PU Foam

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DRAWING TITLE

Assy Datasheet Laura-tape series

DRAWN BY

DATE

p

02.08.2010

CHECKED BY

DATE

s

n

22.07.2010

DESIGNED BY

DATE

hh

21.01.2010

SIZE

A4

DRAWING NUMBER

CA11352

REV

1

SCALE

2:1

WEIGHT (g)

SHEET

1/1

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