



Ordering number CN12367_LENA-FRESNEL

Family	Lena	FWHM	8 degrees
Type	Reflector	Efficiency	(simulated) 0 %
LED	CL-L340	cd/Im	28.000
Color	Black	Gerber File	Available
Diameter	111 mm		
Height	89 mm		
Style	Round		
Optic Material	PC		
Holder Material	PC		
Fastening	Socket, screw		
Status	Ready		



Ordering number CN12101_LENA-S

Family	Lena	FWHM	11 degrees
Type	Reflector	Efficiency	84 %
LED	CL-L340	cd/Im	10.100
Color	Metal	Gerber File	Available
Diameter	111 mm		
Height	86.1 mm		
Style	Round		
Optic Material	PC		
Holder Material	PC		
Fastening	Screw		
Status	Ready		



Ordering number CN12112_LENA-S-DL

Family	Lena	FWHM	12 degrees
Type	Reflector	Efficiency	79 %
LED	CL-L340	cd/Im	7.300
Color	Metal	Gerber File	Available
Diameter	111 mm		
Height	87.7 mm		
Style	Round		
Optic Material	PC		
Holder Material	PC		
Fastening	Screw		
Status	Ready		



Ordering number CN12161_LENA-M

Family	Lena	FWHM	18 degrees
Type	Reflector	Efficiency	83 %
LED	CL-L340	cd/Im	5.100
Color	Metal	Gerber File	Available
Diameter	111 mm		
Height	86.1 mm		
Style	Round		
Optic Material	PC		
Holder Material	PC		
Fastening	Screw		
Status	Ready		



Ordering number CN12113_LENA-W-DL

Family	Lena	FWHM	43 degrees
Type	Reflector	Efficiency	75 %
LED	CL-L340	cd/Im	1.300
Color	Metal	Gerber File	Available
Diameter	111 mm		
Height	87.7 mm		
Style	Round		
Optic Material	PC		
Holder Material	PC		
Fastening	Screw		
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

Lena series

last update 5/7/2012

CITIZEN

GENERAL INFORMATION

- Product series especially designed & optimized for CL-L340 series of LEDs.
- Special care taken to make light distribution as uniform as possible.
- 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 dergees of Celcius / 248 degrees of Fahrenheit).

Relative intensity of CA12113_Lena-W-Diffuser-Lens-CL340



