

**Ordering number CN12099\_LENA-S**

Family	Lena	FWHM	10 degrees
Type	-	Efficiency	(simulated) 0 %
LED	COB204	cd/Im	-
Color	Metal	Gerber File	Available
Diameter	111 mm		
Height	85.6 mm		
Style	Round		
Optic Material	PC		
Holder Material	PC		
Fastening	Screw		
Status	Ready		

**Ordering number CN12110\_LENA-S-DL**

Family	Lena	FWHM	11 degrees
Type	-	Efficiency	(simulated) 0 %
LED	COB204	cd/Im	-
Color	Metal	Gerber File	Available
Diameter	111 mm		
Height	87.2 mm		
Style	Round		
Optic Material	PC		
Holder Material	PC		
Fastening	Screw		
Status	Ready		

**Ordering number CN12165\_LENA-M-DL**

Family	Lena	FWHM	19 degrees
Type	-	Efficiency	(simulated) 0 %
LED	COB204	cd/Im	-
Color	Metal	Gerber File	Available
Diameter	111 mm		
Height	87.2 mm		
Style	Round		
Optic Material	PC		
Holder Material	PC		
Fastening	Screw		
Status	Ready		

**Ordering number CN12111\_LENA-W-DL**

Family	Lena	FWHM	44 degrees
Type	-	Efficiency	(simulated) 0 %
LED	COB204	cd/Im	-
Color	Metal	Gerber File	Available
Diameter	111 mm		
Height	87.2 mm		
Style	Round		
Optic Material	PC		
Holder Material	PC		
Fastening	Screw		
Status	Ready		



**PRODUCT DATASHEET**  
**Lena series**  
last update 4/2/2013



**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 4/2/2013



#### GENERAL INFORMATION

- Product series especially designed & optimized for COB204 series of LEDs.
- Special care taken to make light distribution as uniform as possible.
- 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 CA12111\_Lena-W-Diffuser-Lens\_COB-L110**



