

**Ordering number CN12099_LENA-S**

Family	Lena	FWHM	7.6 degrees
Type	Pack	Efficiency	83 %
LED	NSBxL110	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	9 degrees
Type	Pack	Efficiency	77 %
LED	NSBxL110	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	Pack	Efficiency	76 %
LED	NSBxL110	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	39 degrees
Type	Pack	Efficiency	73 %
LED	NSBxL110	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

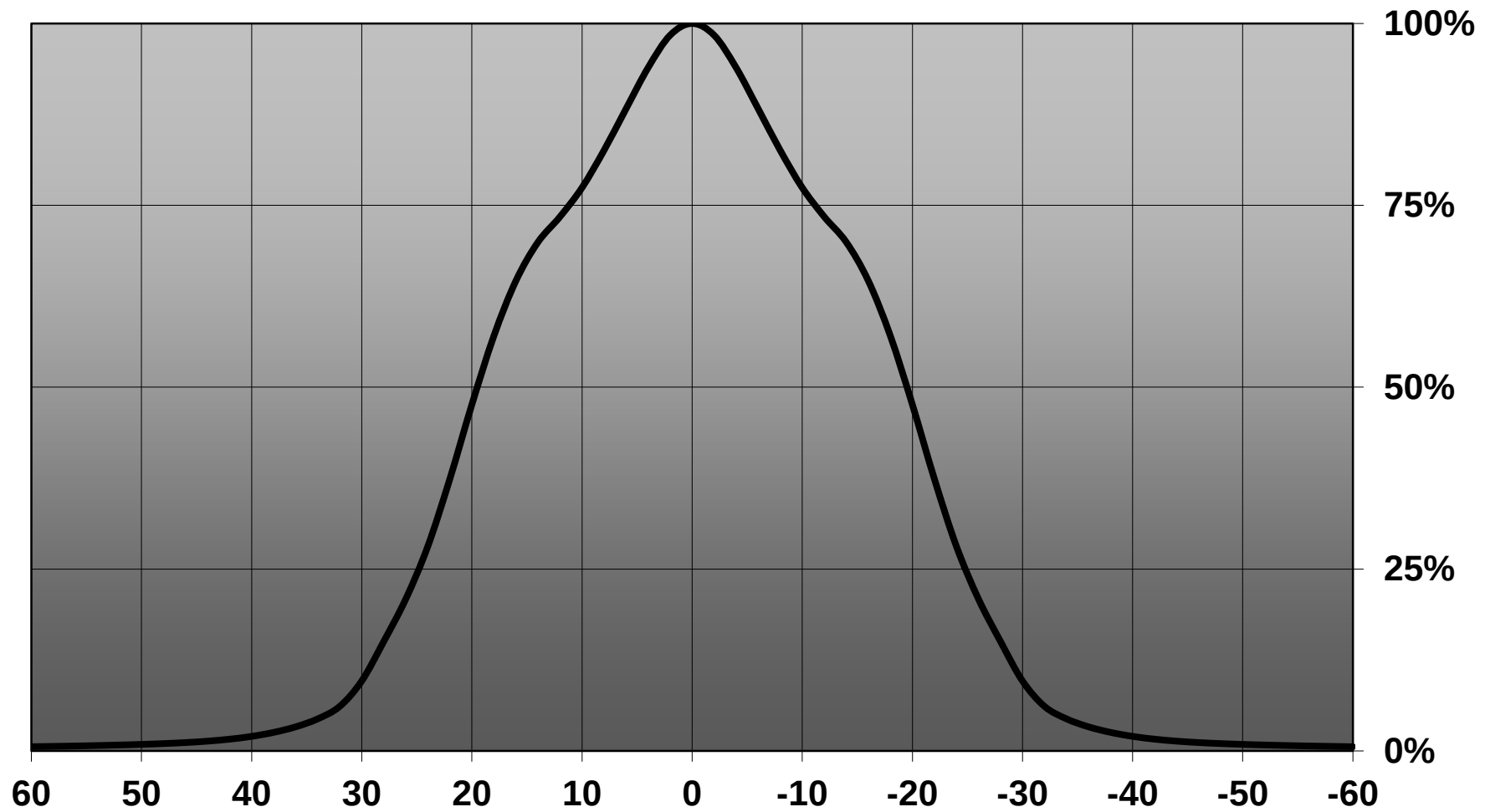
last update 4/2/2013

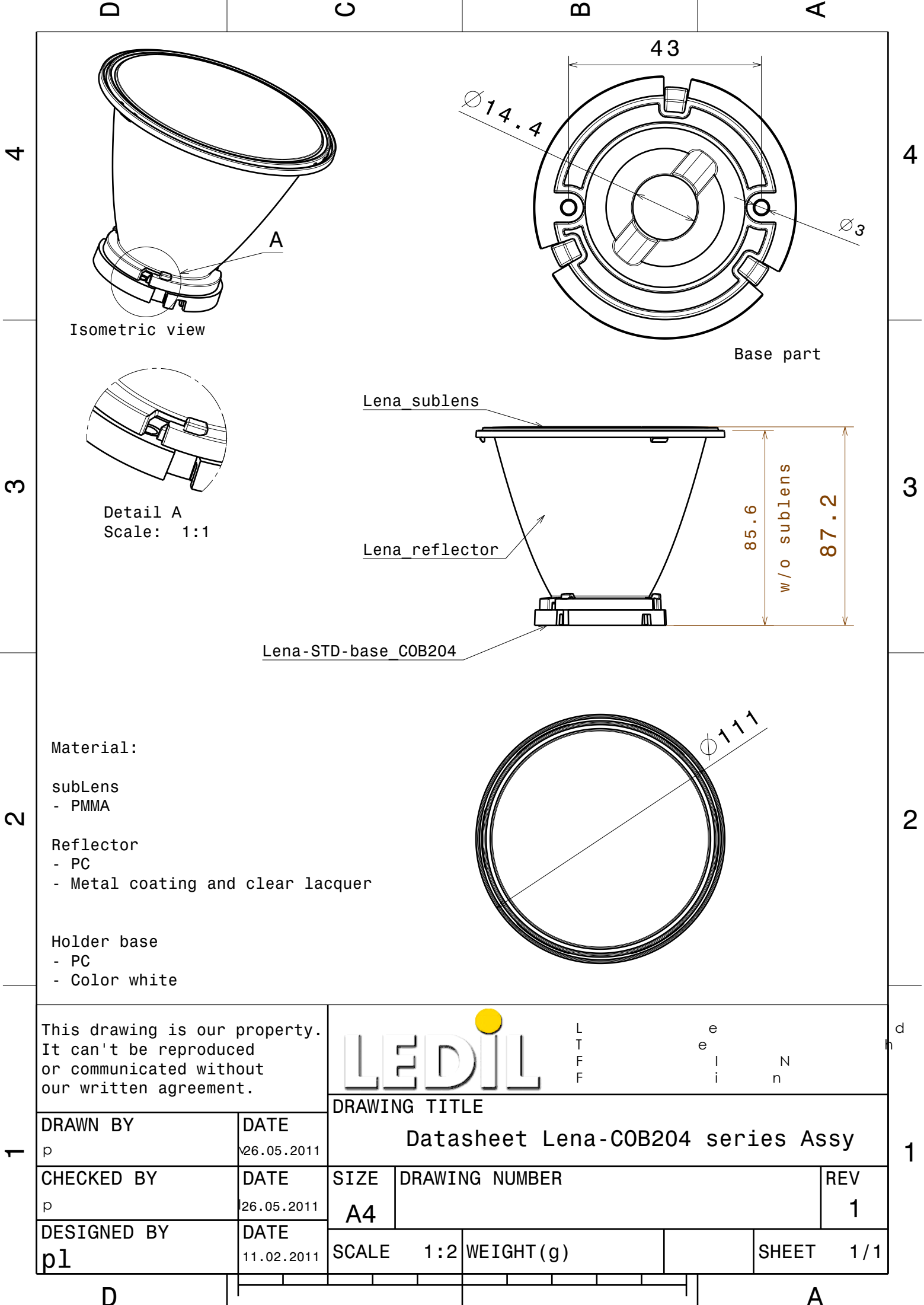


GENERAL INFORMATION

- Product series especially designed & optimized for NSBxL110 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





Isometric view

Detail A
Scale: 1:1

Base part

Lena_sublens

Lena_reflector

Lena-STD-base COB204

Material:

subLens
- PMMA

Reflector
- PC
- Metal coating and clear lacquer

Holder base
- PC
- Color white

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DRAWING TITLE

Datasheet Lena-COB204 series Assy

DRAWN BY		DATE		DRAWING TITLE Datasheet Lena-COB204 series Assy			
p		26.05.2011					
CHECKED BY		DATE		SIZE	DRAWING NUMBER		REV
p		26.05.2011		A4			1
DESIGNED BY		DATE		SCALE		WEIGHT (g)	SHEET
p1		11.02.2011		1:2			1 / 1