

**Ordering number C13236\_SANDRA-12-S**

Family	Sandra	FWHM	15 degrees
Type	Lens array	Efficiency	93 %
LED	XP-G	cd/lm	9.500
Color	Clear	Gerber File	Available
Diameter	67 mm		
Height	11.1 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	-		
Fastening	Pin, glue		
Status	Ready		

**Ordering number C11814\_SANDRA-12-M**

Family	Sandra	FWHM	28 degrees
Type	Lens array	Efficiency	91 %
LED	XP-G	cd/lm	2.500
Color	Clear	Gerber File	Available
Diameter	67 mm		
Height	11.1 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	-		
Fastening	Pin, glue		
Status	Ready		

**Ordering number C11700\_SANDRA-12-W**

Family	Sandra	FWHM	34 degrees
Type	Lens array	Efficiency	91 %
LED	XP-G	cd/lm	2.200
Color	Clear	Gerber File	Available
Diameter	67 mm		
Height	11.1 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	-		
Fastening	Pin, glue		
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.**

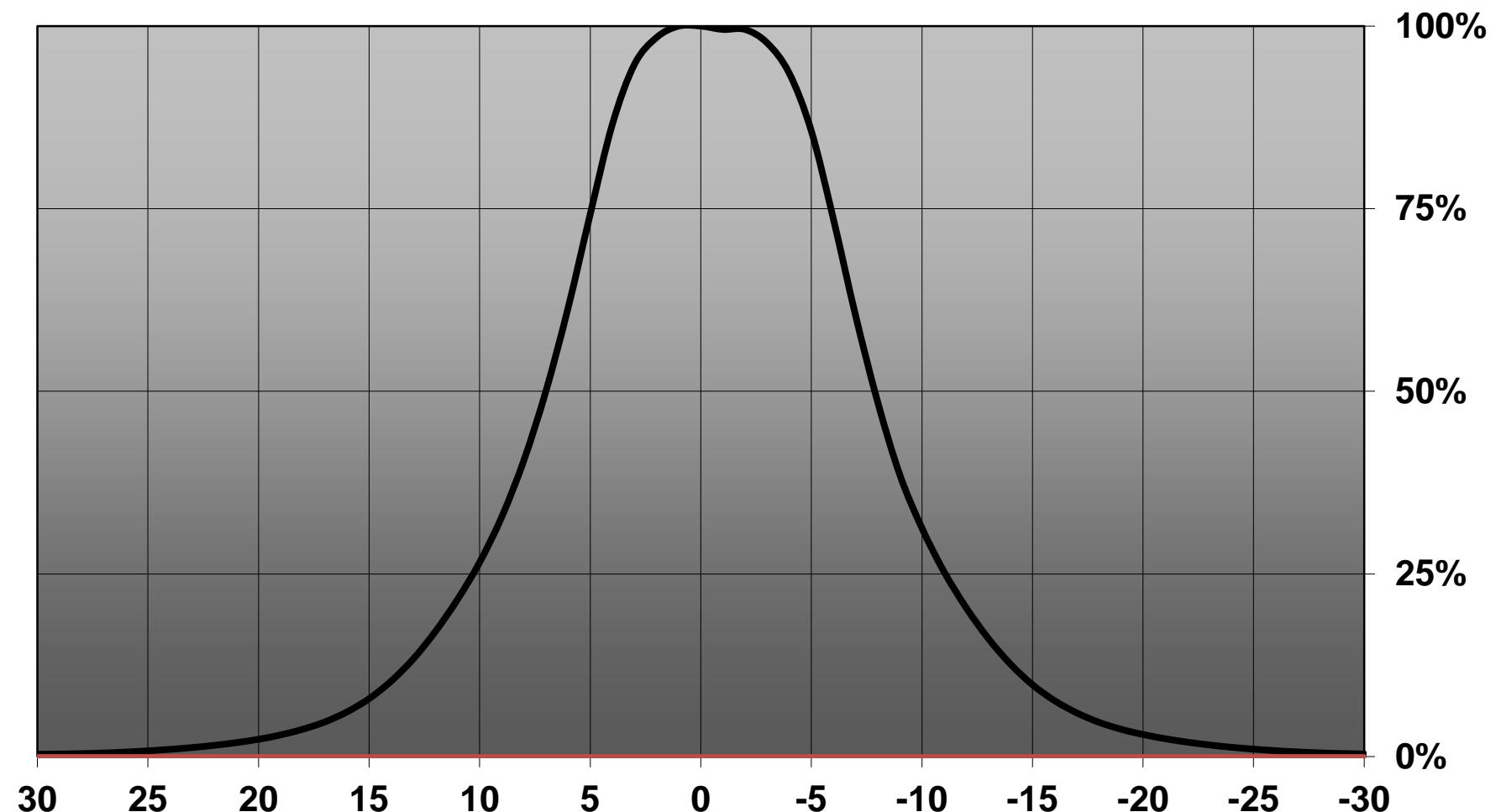
**GENERAL INFORMATION**

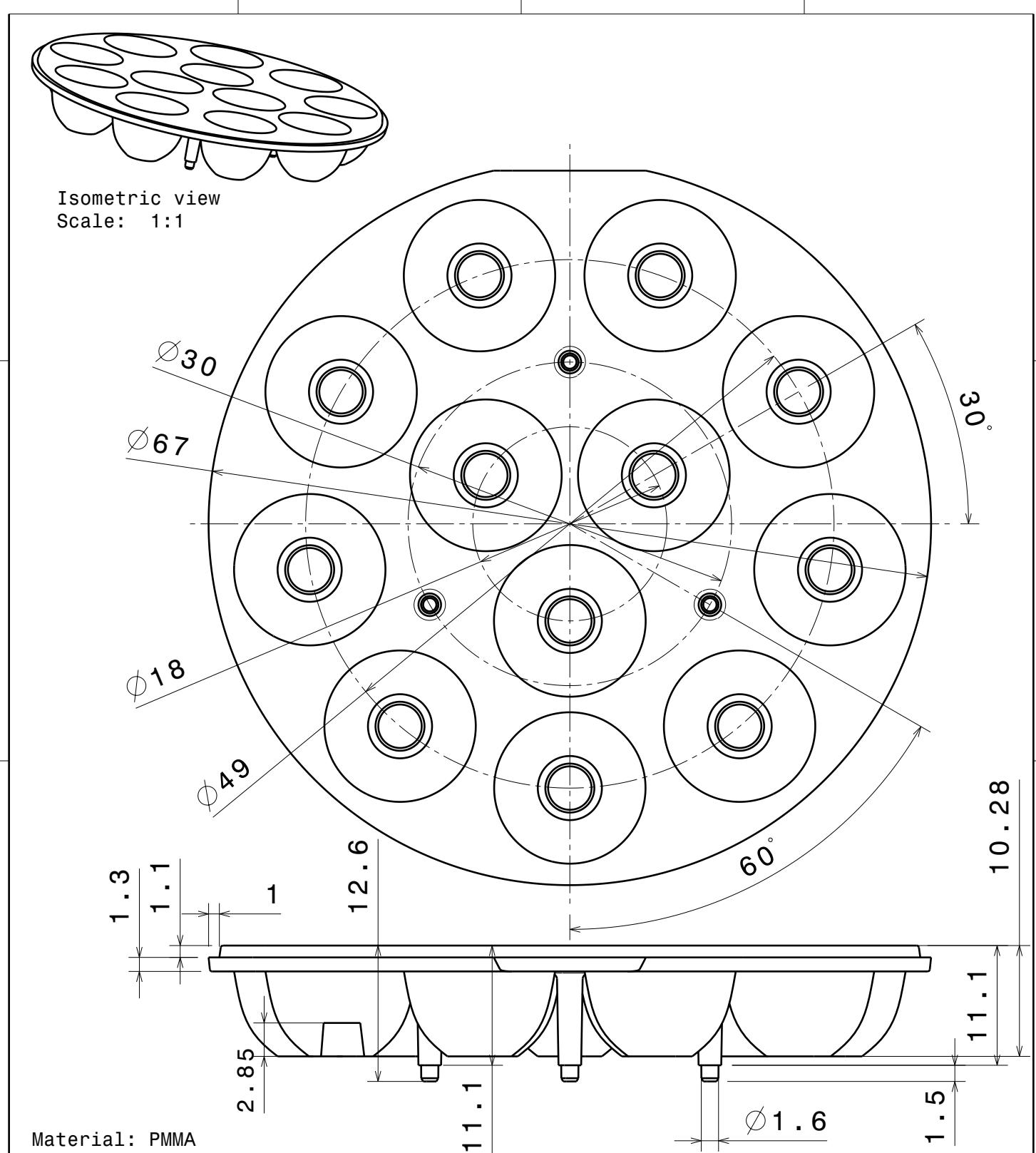
- Product series especially designed & optimized for XP-G series of LEDs.
- Special care taken to make light distribution as uniform as possible.
- Lens material optical grade PMMA with high UV and temperature resistance. Allows use of high current and temperature conditions.

Please find more information about used material from below:

[http://ledil.fi/sites/default/files/Documents/Technical/Material/PMMA%208N%20UL94\\_Yellow%20Card.pdf](http://ledil.fi/sites/default/files/Documents/Technical/Material/PMMA%208N%20UL94_Yellow%20Card.pdf)  
<http://ledil.fi/sites/default/files/Documents/Technical/Material/PMMA%208N%20PLEXIGLAS-Datasheet.pdf>

## Relative intensity of C13236\_SANDRA-12-S-XPG





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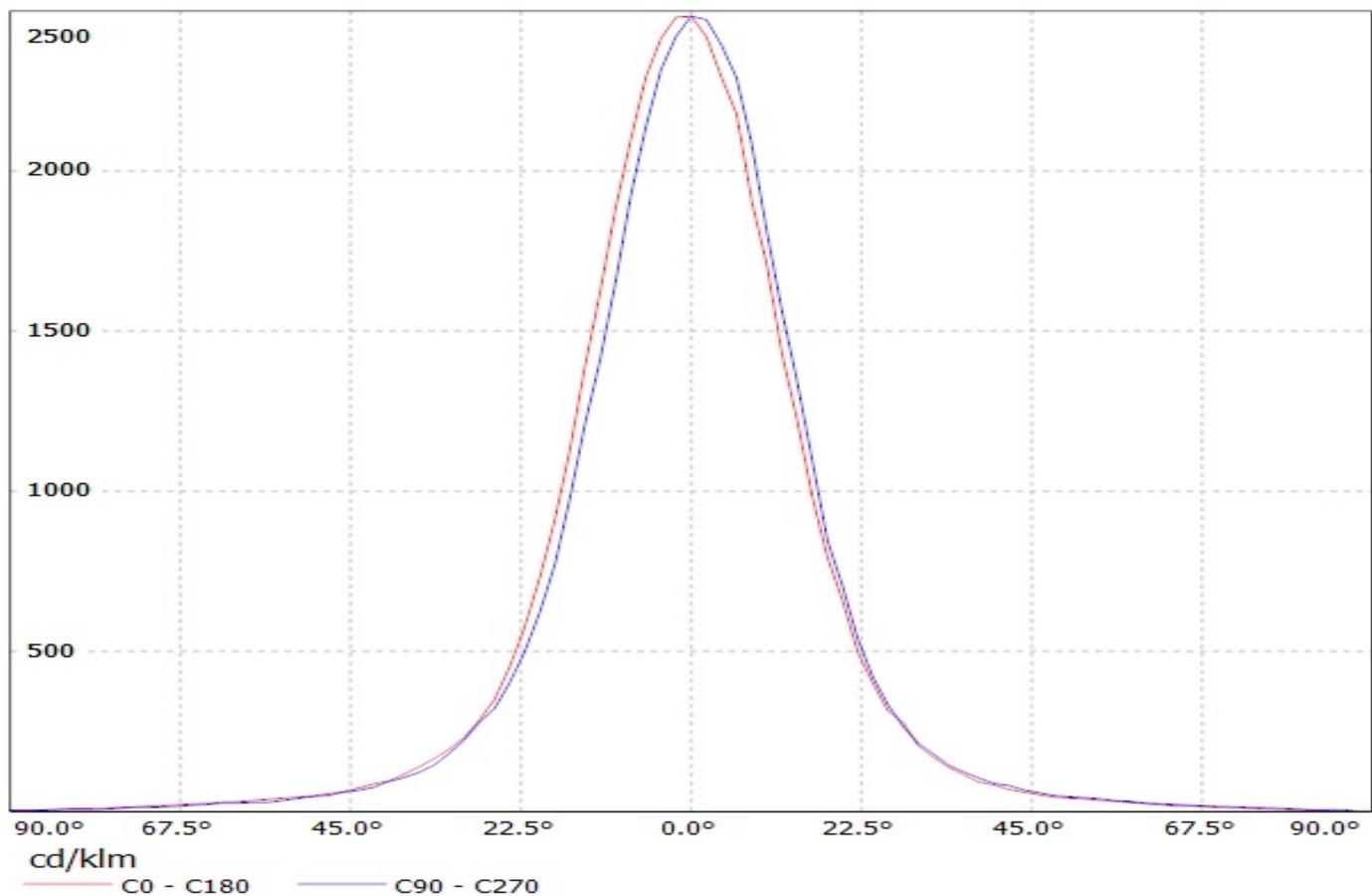


DRAWING TITLE

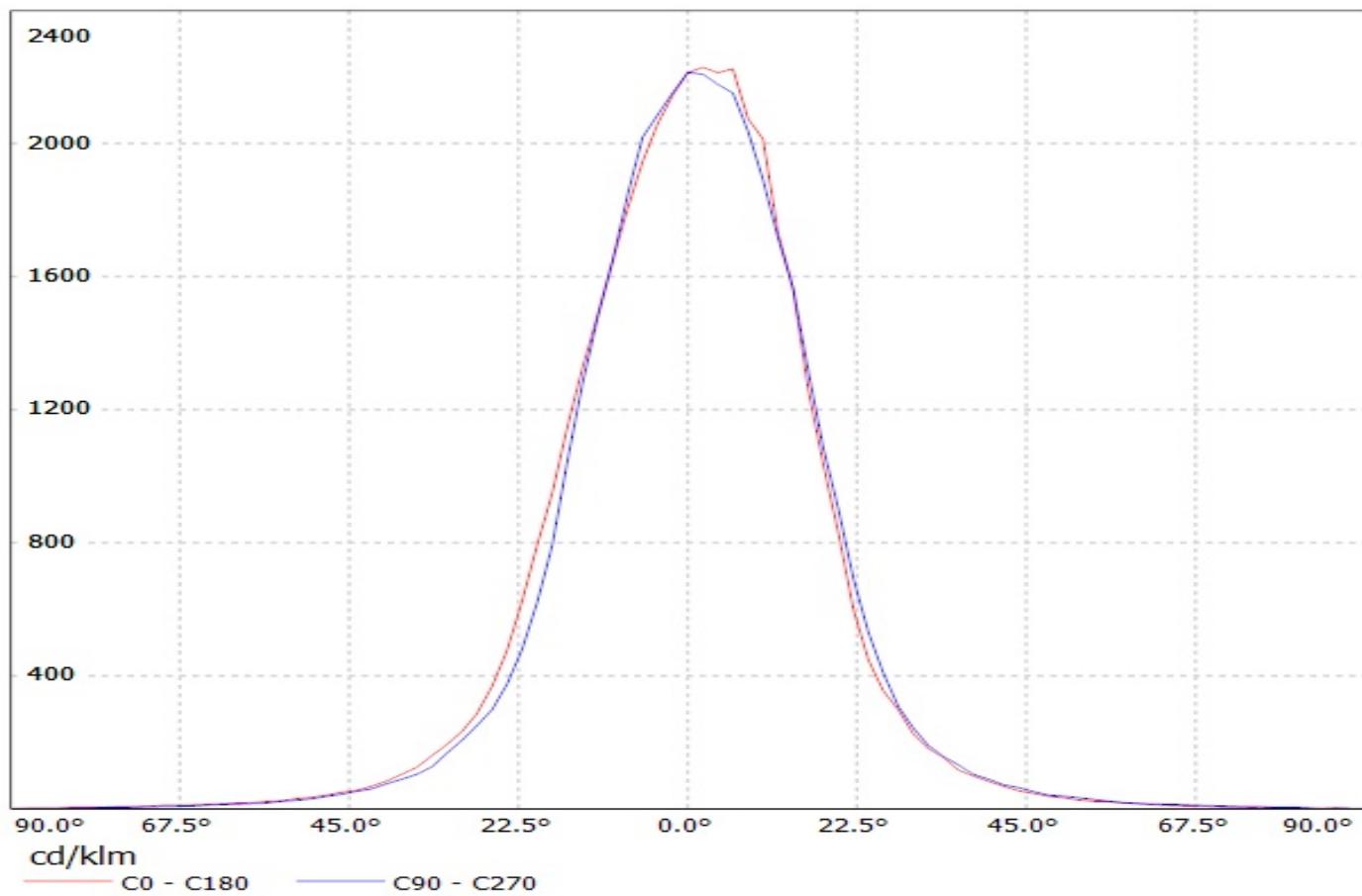
Ledil Oy  
Salarankatu 10  
FIN-24100 SALO  
Finland

DRAWN BY ah	DATE 31.12.2012	Datasheet Sandra-12 series lens			1
CHECKED BY	DATE	SIZE A4	DRAWING NUMBER -	REV 1	
DESIGNED BY hh	DATE 27.08.2010	SCALE 2:1	WEIGHT(g)		SHEET 1/1

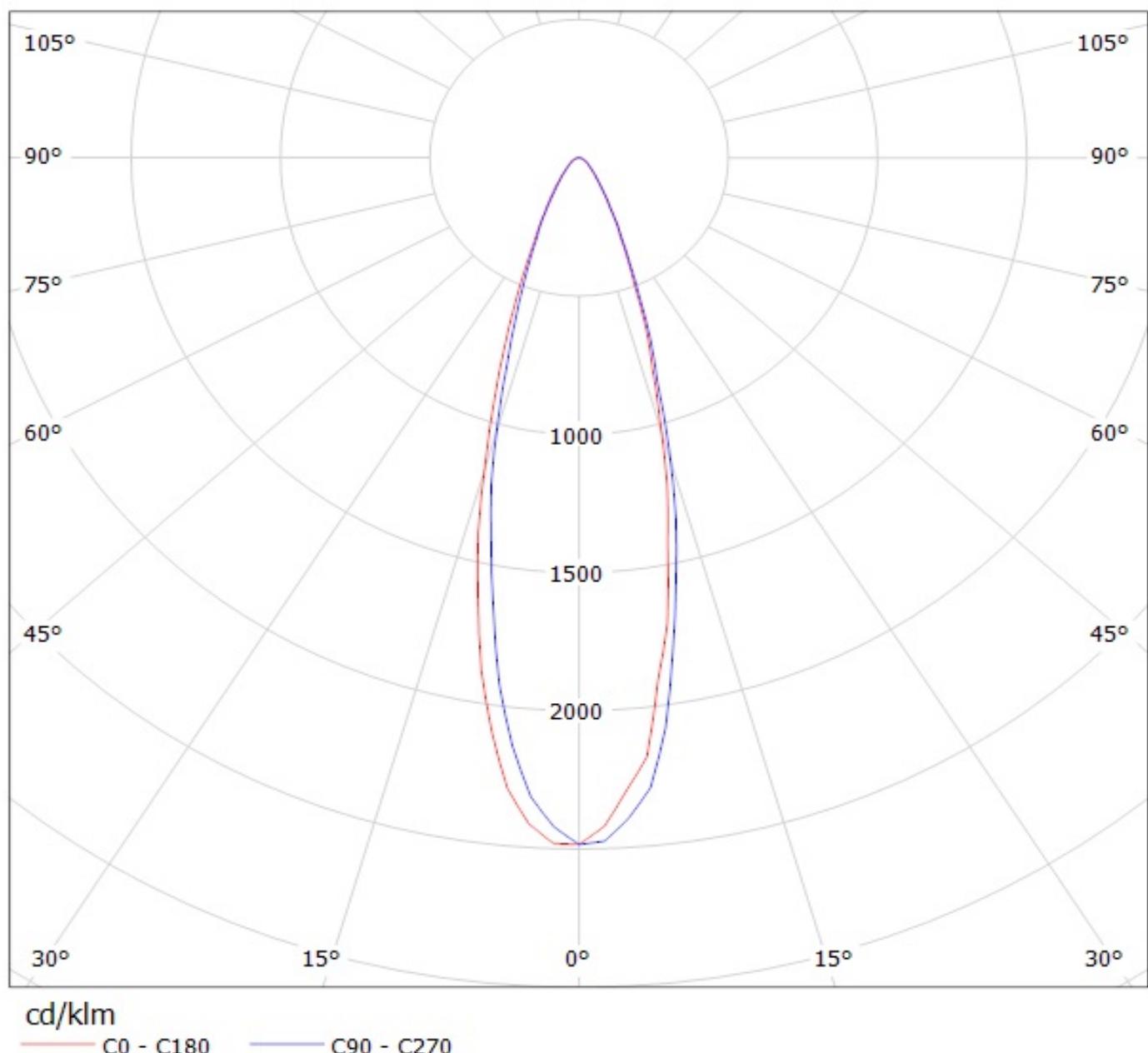
Luminaire: Ledil Oy C11814\_SANDRA-12-M (Cree XP-G 1145lm @ 250mA) Efficiency=91%  
Lamps: 1 x Cree XP-G 1145lm @ 250mA



Luminaire: Ledil Oy C11700\_SANDRA-12-W (Cree XP-G 1145lm @ 250mA) Efficiency=91%  
Lamps: 1 x Cree XP-G 1145lm @ 250mA



Luminaire: Ledil Oy C11814\_SANDRA-12-M (Cree XP-G 1145lm @ 250mA) Efficiency=91%  
Lamps: 1 x Cree XP-G 1145lm @ 250mA



Luminaire: Ledil Oy C11700\_SANDRA-12-W (Cree XP-G 1145lm @ 250mA) Efficiency=91%  
Lamps: 1 x Cree XP-G 1145lm @ 250mA

