

**Ordering number C13236_SANDRA-12-S**

Family	Sandra	FWHM	10 degrees
Type	Lens array	Efficiency	91 %
LED	XP-E	cd/lm	18.700
Color	Clear	Gerber File	Available
Diameter	67 mm		
Height	11.1 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	-		
Fastening	Pin, glue		
Status	On production		

Ordering number C11700_SANDRA-12-W

Family	Sandra	FWHM	26 degrees
Type	Lens array	Efficiency	83 %
LED	XP-E	cd/lm	3.000
Color	Clear	Gerber File	Available
Diameter	67 mm		
Height	11.1 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	-		
Fastening	Pin, glue		
Status	On production		

Ordering number C11814_SANDRA-12-M

Family	Sandra	FWHM	30 degrees
Type	Lens array	Efficiency	84 %
LED	XP-E	cd/lm	2.100
Color	Clear	Gerber File	Available
Diameter	67 mm		
Height	11.1 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	-		
Fastening	Pin, glue		
Status	On production		

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.

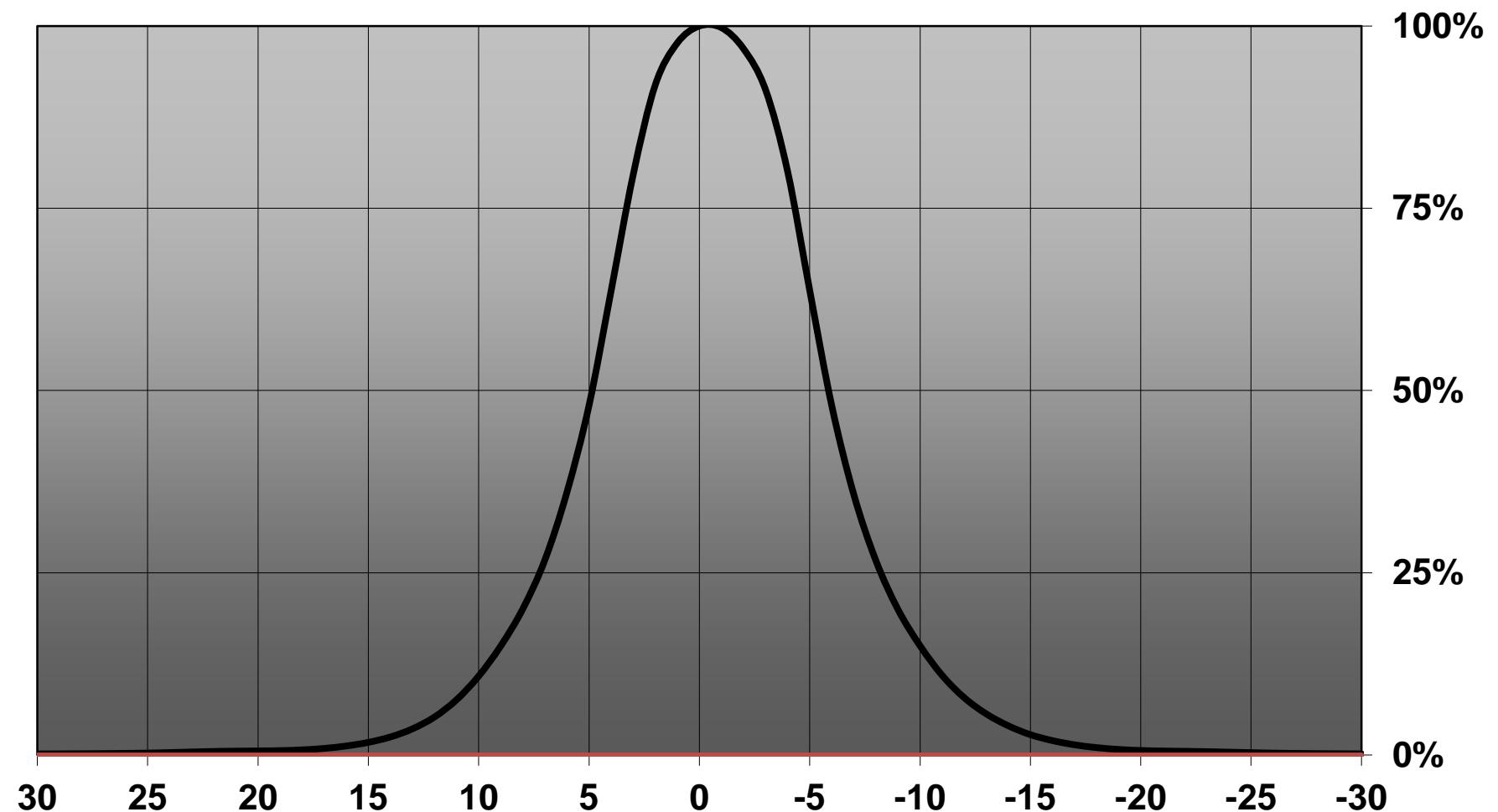
GENERAL INFORMATION

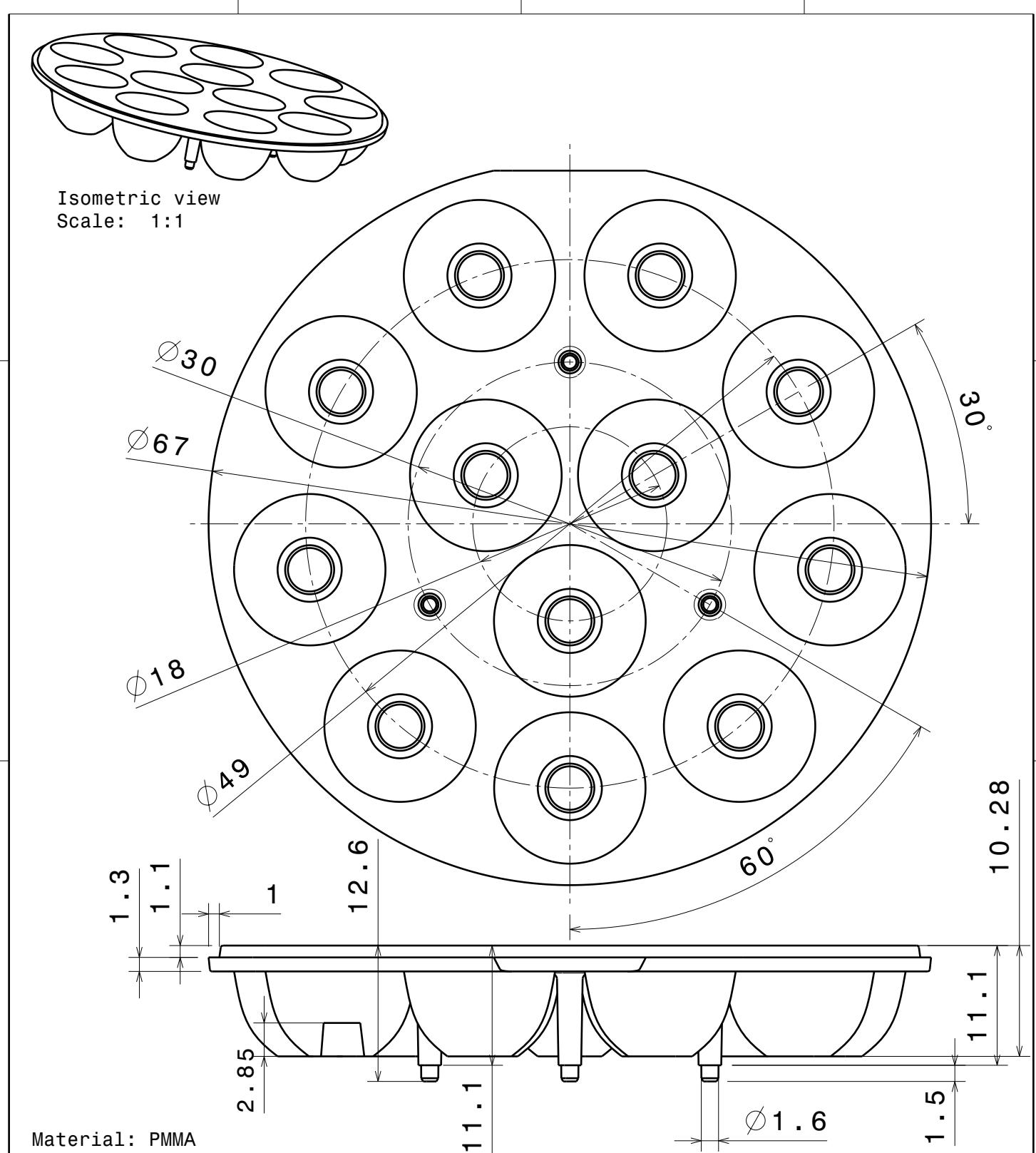
- Product series especially designed & optimized for XP-E series of LEDs.
- Special care taken to make light distribution as uniform as possible.
- Lens material optical grade PMMA with high UV and temperature resistance. Allows use of high current and temperature conditions.

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%20PLEXIGLAS-Datasheet.pdf>

Relative intensity of C13236_SANDRA-12-S-XPE





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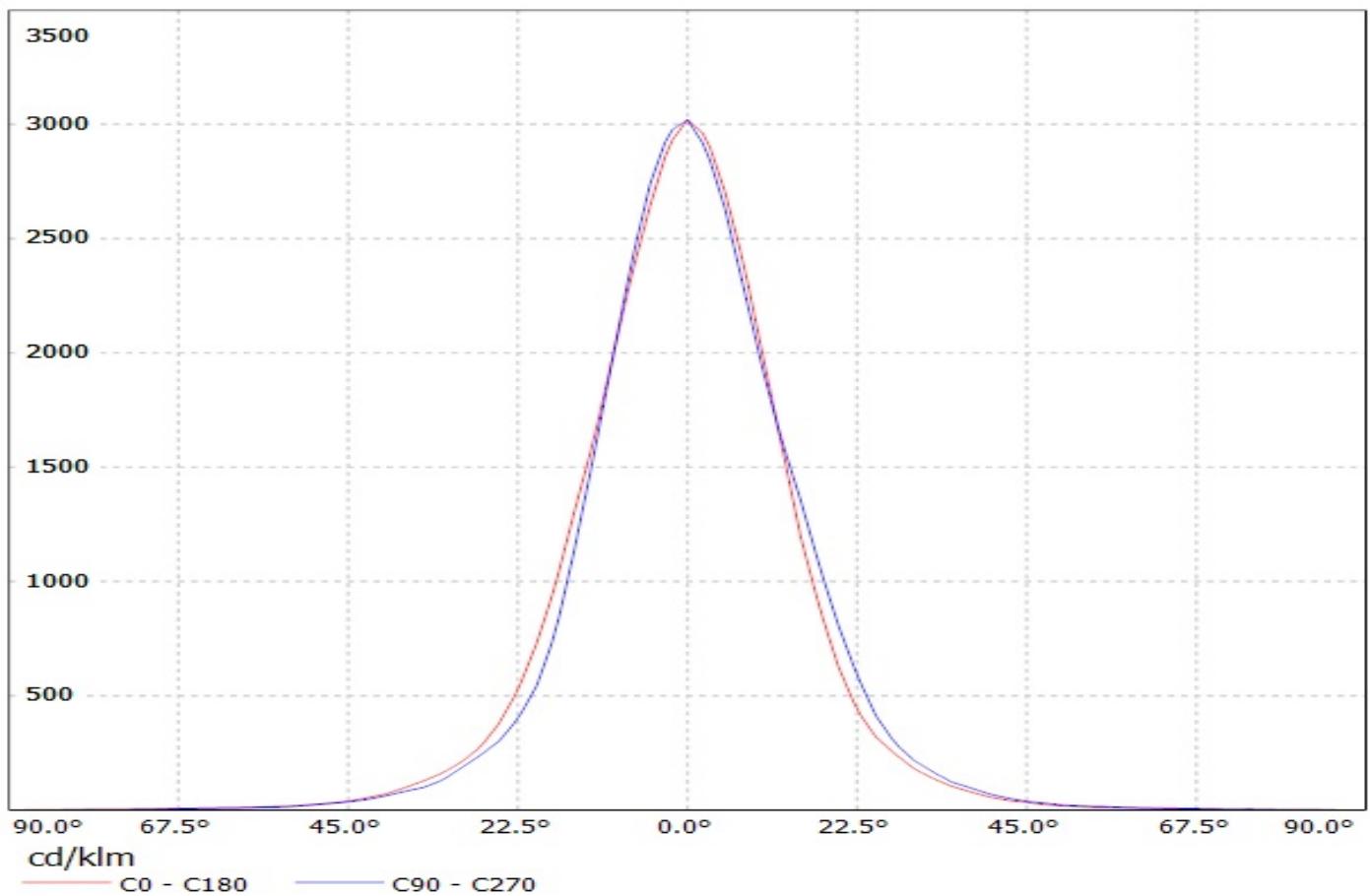


DRAWING TITLE

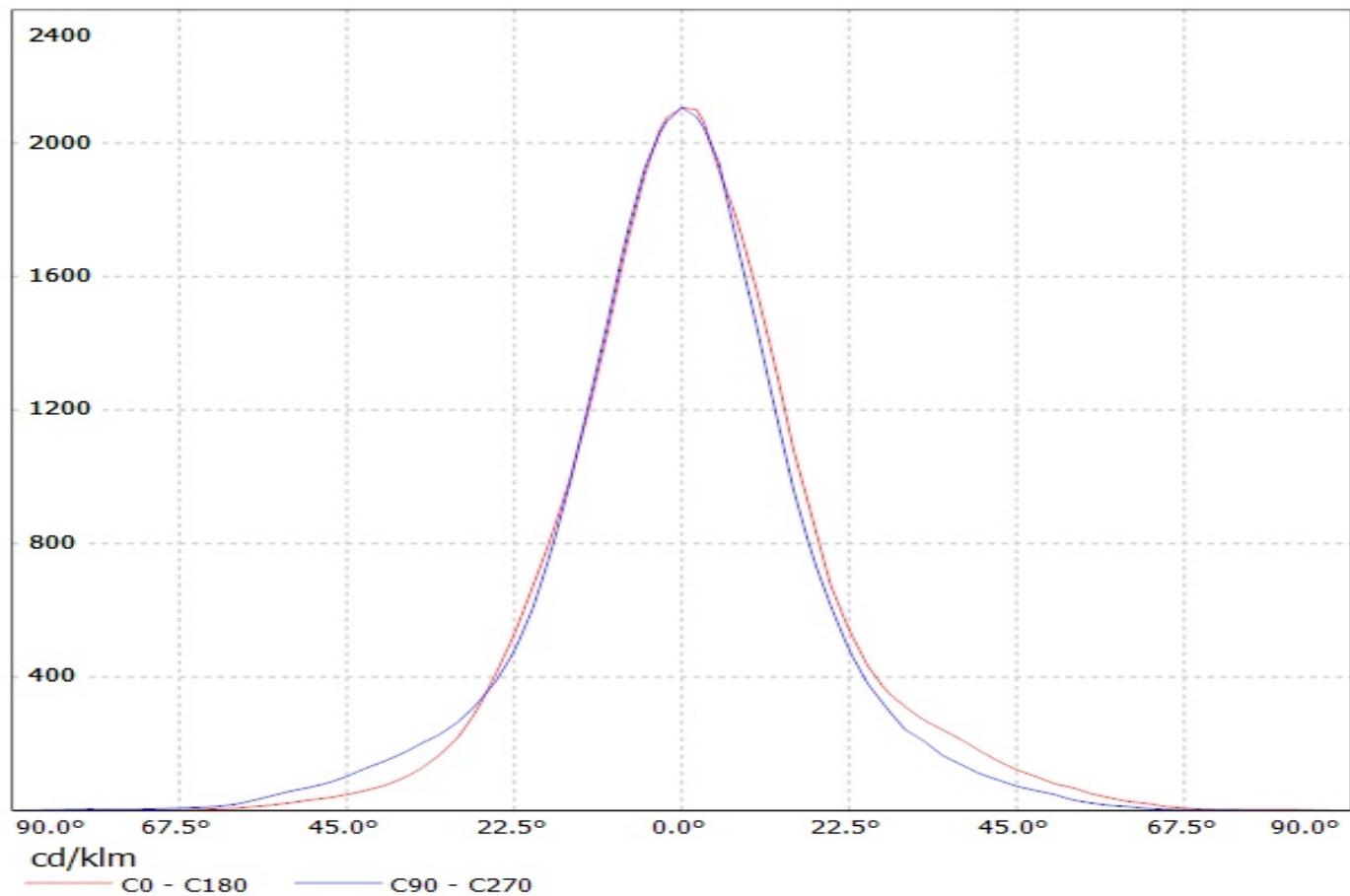
Ledil Oy
Salarankatu 10
FIN-24100 SALO
Finland

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

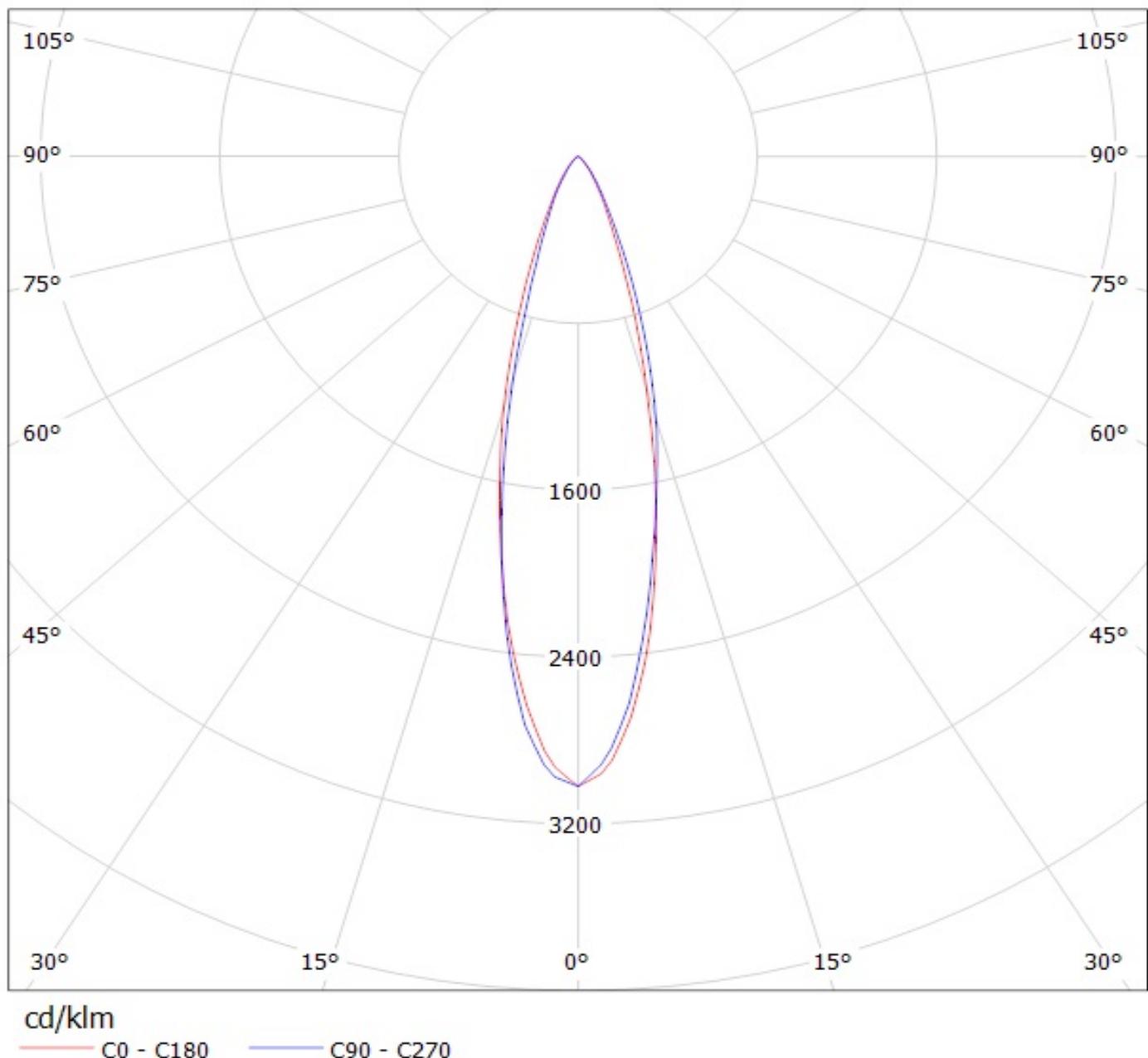
Luminaire: Ledil Oy C11700_SANDRA-12-W (Cree XP-E 817lm@ 250mA) Efficiency=83%
Lamps: 1 x Cree XP-E 817lm@ 250mA



Luminaire: Ledil Oy C11814_SANDRA-12-M (Cree XP-E 817lm @ 250mA) Efficiency=84%
Lamps: 1 x Cree XP-E 817lm @ 250mA



Luminaire: Ledil Oy C11700_SANDRA-12-W (Cree XP-E 817lm@ 250mA) Efficiency=83%
Lamps: 1 x Cree XP-E 817lm@ 250mA



Luminaire: Ledil Oy C11814_SANDRA-12-M (Cree XP-E 817lm @ 250mA) Efficiency=84%
Lamps: 1 x Cree XP-E 817lm @ 250mA

