PRODUCT DATASHEET
Lisa2 series
last update 16/10/2013

Ordering number FP11084_LISA2-RS-CLIP

Family	Lisa2	FWHM	16 degrees
Type	Assembly	Efficiency	89 %
LED	Oslon SSL 80	cd/lm	-
Color	Black	Gerber File	Available
Diameter	9.9 mm		
Height	6.6 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	PC		
Fastening	Clips, glue		
Status	Ready		

Ordering number FP11081_LISA2-M-CLIP

Family	Lisa2	FWHM	23 degrees
Type	Assembly	Efficiency	90 %
LED	Oslon SSL 80	cd/lm	-
Color	Black	Gerber File	Available
Diameter	9.9 mm		
Height	6.6 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	PC		
Fastening	Clips, glue		
Status	Ready		

Ordering number FP11082_LISA2-W-CLIP

Family	Lisa2	FWHM	36 degrees
Type	Assembly	Efficiency	88 %
LED	Oslon SSL 80	cd/lm	1.730
Color	Black	Gerber File	Available
Diameter	9.9 mm		
Height	6.6 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	PC		
Fastening	Clips, glue		
Status	Ready		

Ordering number FP11120_LISA2-O-CLIP

Family	Lisa2	FWHM	48+19 degrees
Type	Assembly	Efficiency	80 %
LED	Oslon SSL 80	cd/lm	2.200
Color	Black	Gerber File	Available
Diameter	9.9 mm		
Height	6.6 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	PC		
Fastening	Clips, glue		
Status	Ready		

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PRODUCT DATASHEET
Lisa2 series
last update 16/10/2013

Ordering number FP11857_LISA2-O-90-CLIP

Family	Lisa2	FWHM	48+19 degrees
Type	Assembly	Efficiency	80 %
LED	Oslon SSL 80	cd/lm	-
Color	Black	Gerber File	Available
Diameter	9.9 mm		
Height	6.6 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	PC		
Fastening	Clips, glue		
Status	Ready		

Ordering number FP11083_LISA2-WW-CLIP

Family	Lisa2	FWHM	60 degrees
Type	Assembly	Efficiency	87 %
LED	Oslon SSL 80	cd/lm	-
Color	Black	Gerber File	Available
Diameter	9.9 mm		
Height	7 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	PC		
Fastening	Clips, glue		
Status	Ready		

Ordering number FP11958_LISA2-WWW-CLIP

Family	Lisa2	FWHM	70 degrees
Type	Assembly	Efficiency	77 %
LED	Oslon SSL 80	cd/lm	0.700
Color	Black	Gerber File	Available
Diameter	9.9 mm		
Height	6.6 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	PC		
Fastening	Clips, 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.

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GENERAL INFORMATION

- Product series especially designed & optimized for Oslon SSL 80 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 (105 degrees of Celcius / 220 degrees of Fahrenheit). 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
- Optic holder molded by high quality PC material (120 dergees of Celcius / 248 degrees of Fahrenheit).

- Fastening to PCB with appropriate adhesive. By clicking link below you can find Ledil recommended glue options.
http://www.ledil.com/datasheets/DataSheet_GLUES.pdf

NOTE 1: We advise customer to ensure the suitability and sufficiency of the bond in the end product. For example, mechanical stress, vibration and holes on the surface of the circuit boar weaken the strength of the glue.

NOTE 2: All surfaces where glue is applied must be clean, dry and free from grease and dirt. If cleaning of PCB surfaces is needed, please follow strictly the cleaning instructions of your LED manufacturer -this is important as cleaning shall under no circumstances damage LEDs or other electronics components on the PCB.

Further note that optical components shall not be cleaned with any chemicals - only micro fiber cloth may be used to remove fingerprints or other traces from handling.

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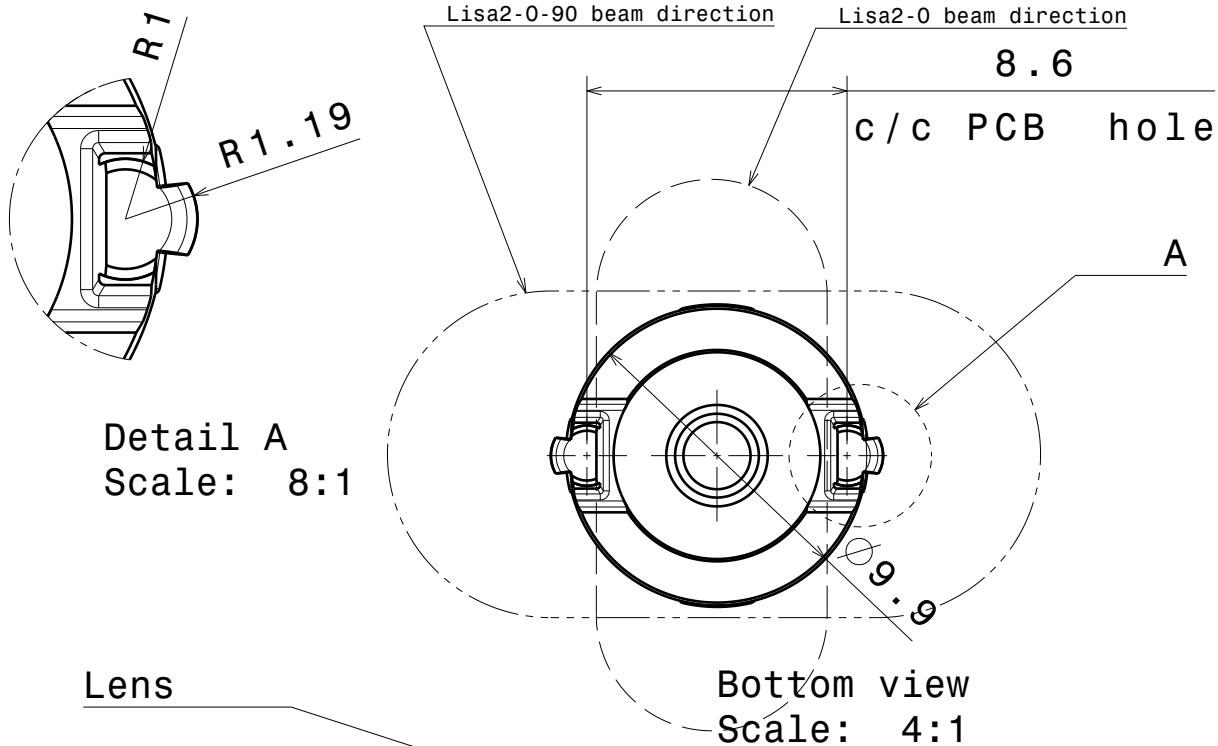
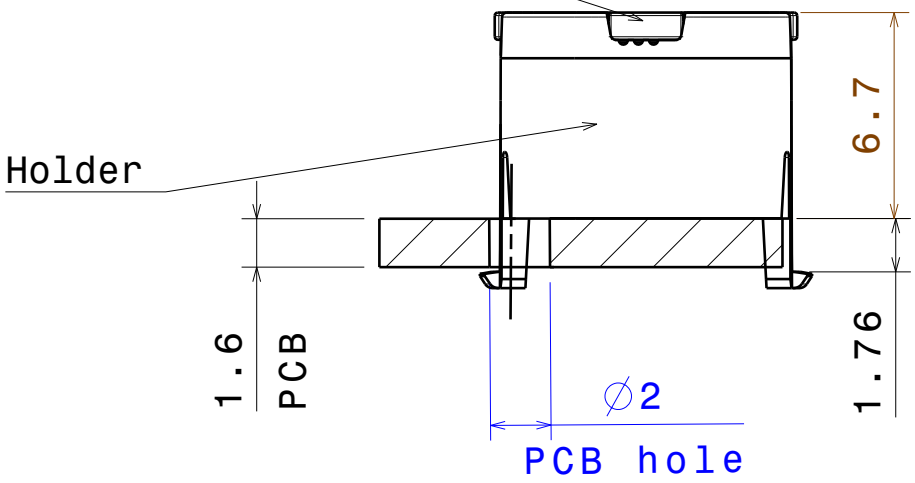


Detail A
Scale: 8:1

Bottom view
Scale: 4:1



Materials:
Lens PMMA
Holder PC

Front view
Scale: 4:1

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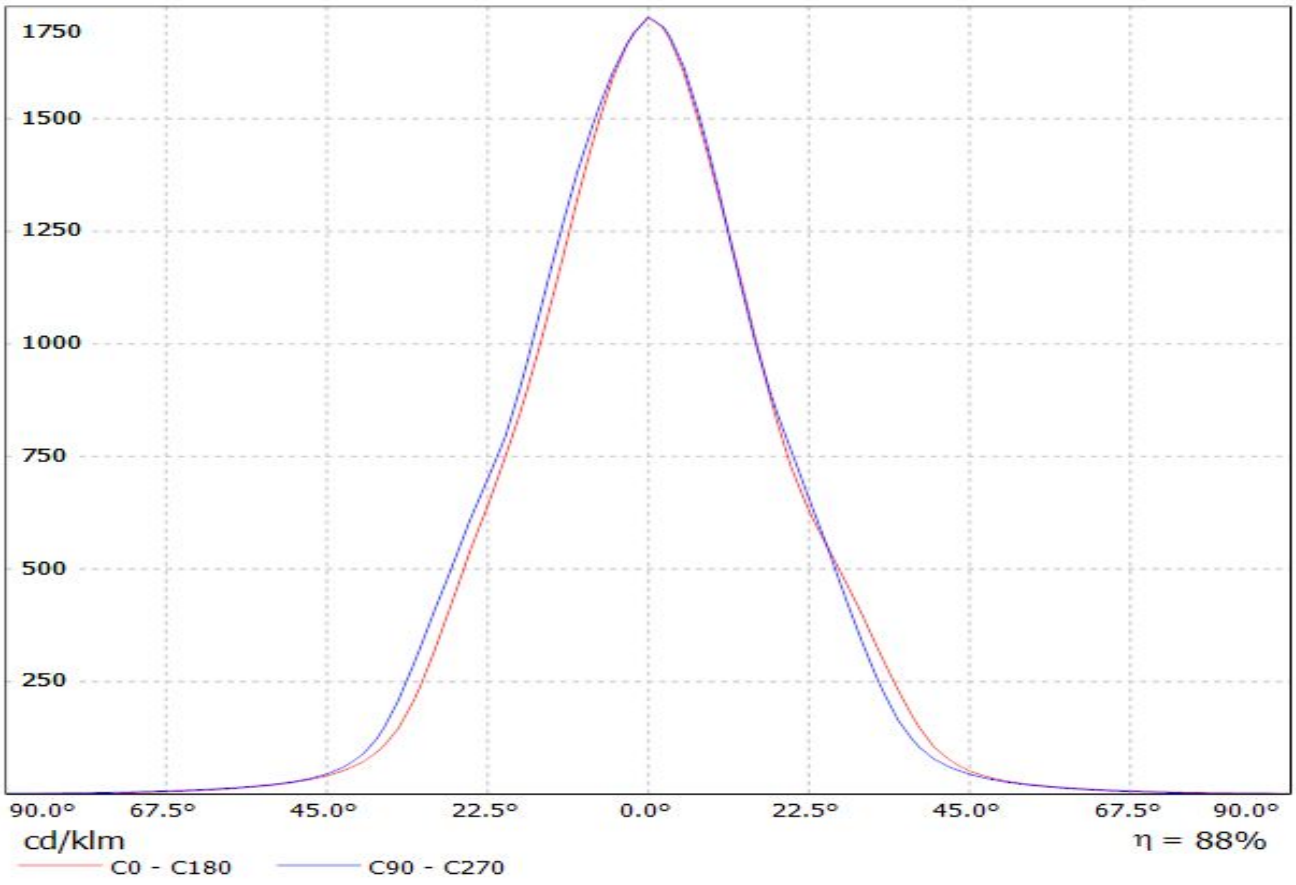
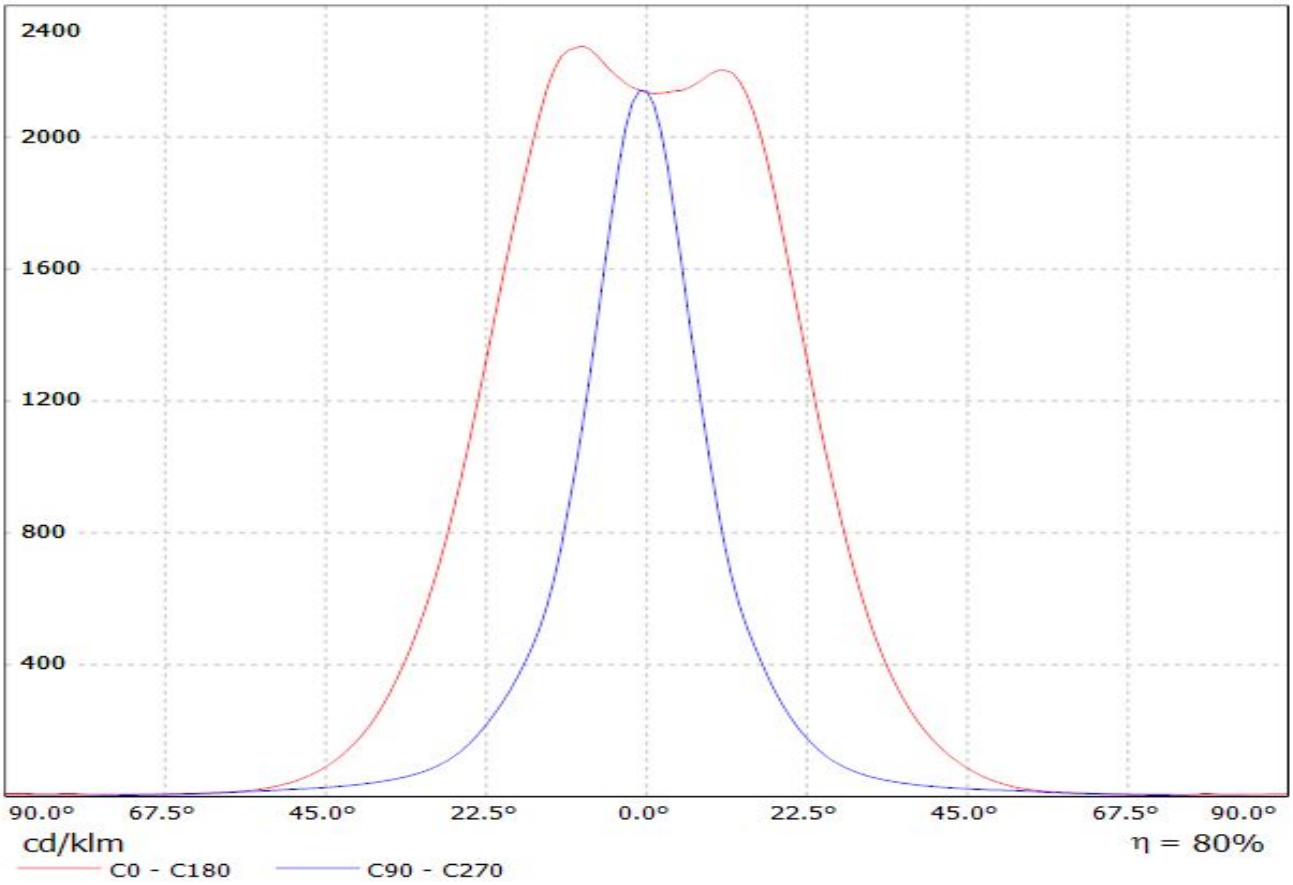
LEDIL

DRAWN BY: a	DATE: h20.7.2011	DRAWING TITLE: Datasheet Lisa2-clip16-OSL series Assy		
CHECKED BY: s n	DATE: 20.7.2011	SIZE: A4	DRAWING NUMBER	REV: 2
DESIGNED BY: hh	DATE: 19.10.2009	SCALE: 4:1	WEIGHT(g)	SHEET: 1/1

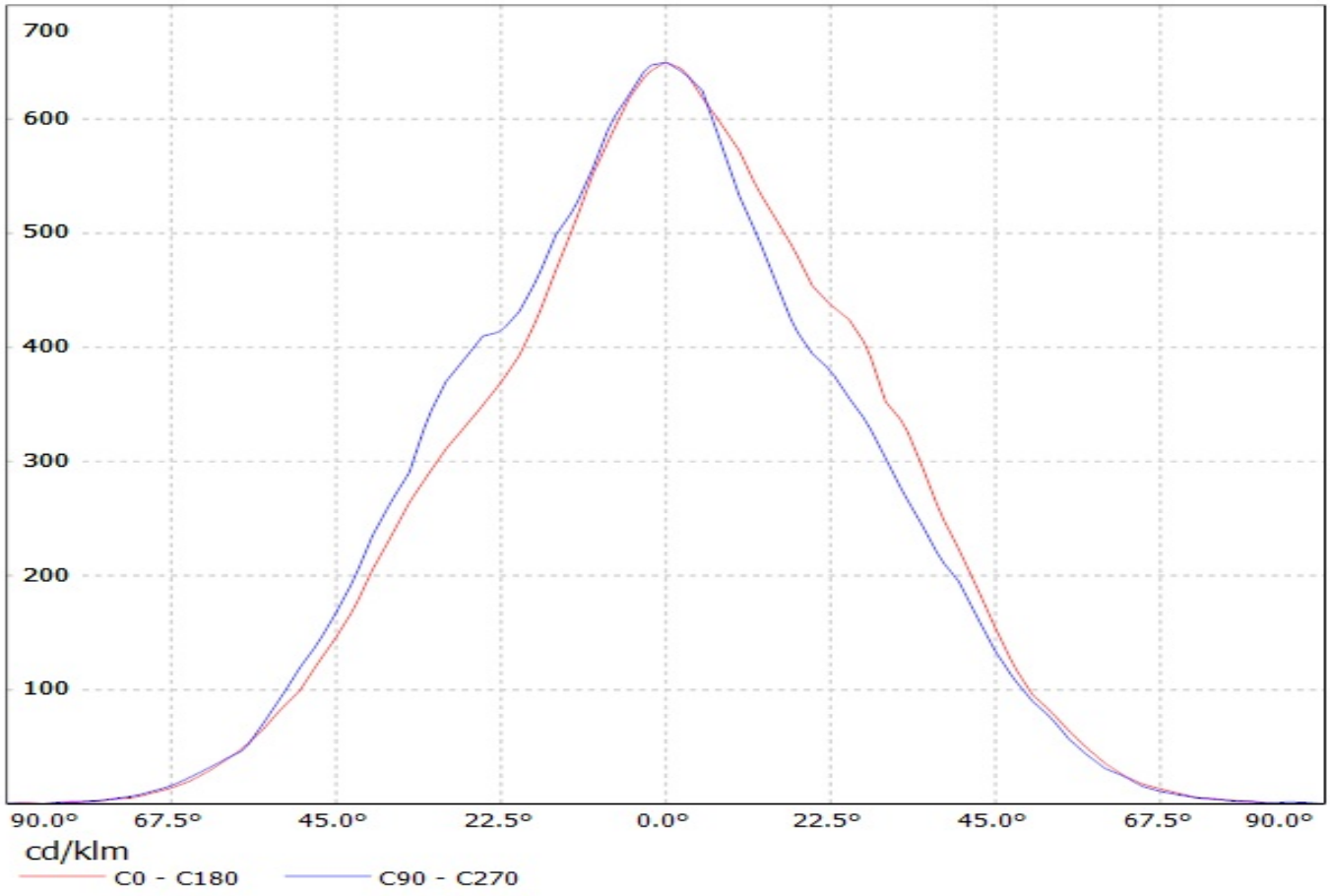
Luminaire: LEDiL Oy FP11002 & FP11082_LISA2-W_(SSL80) Eff.87.5%
Lamps: 1 x Oslon SSL80 (77.5072lm@250mA)



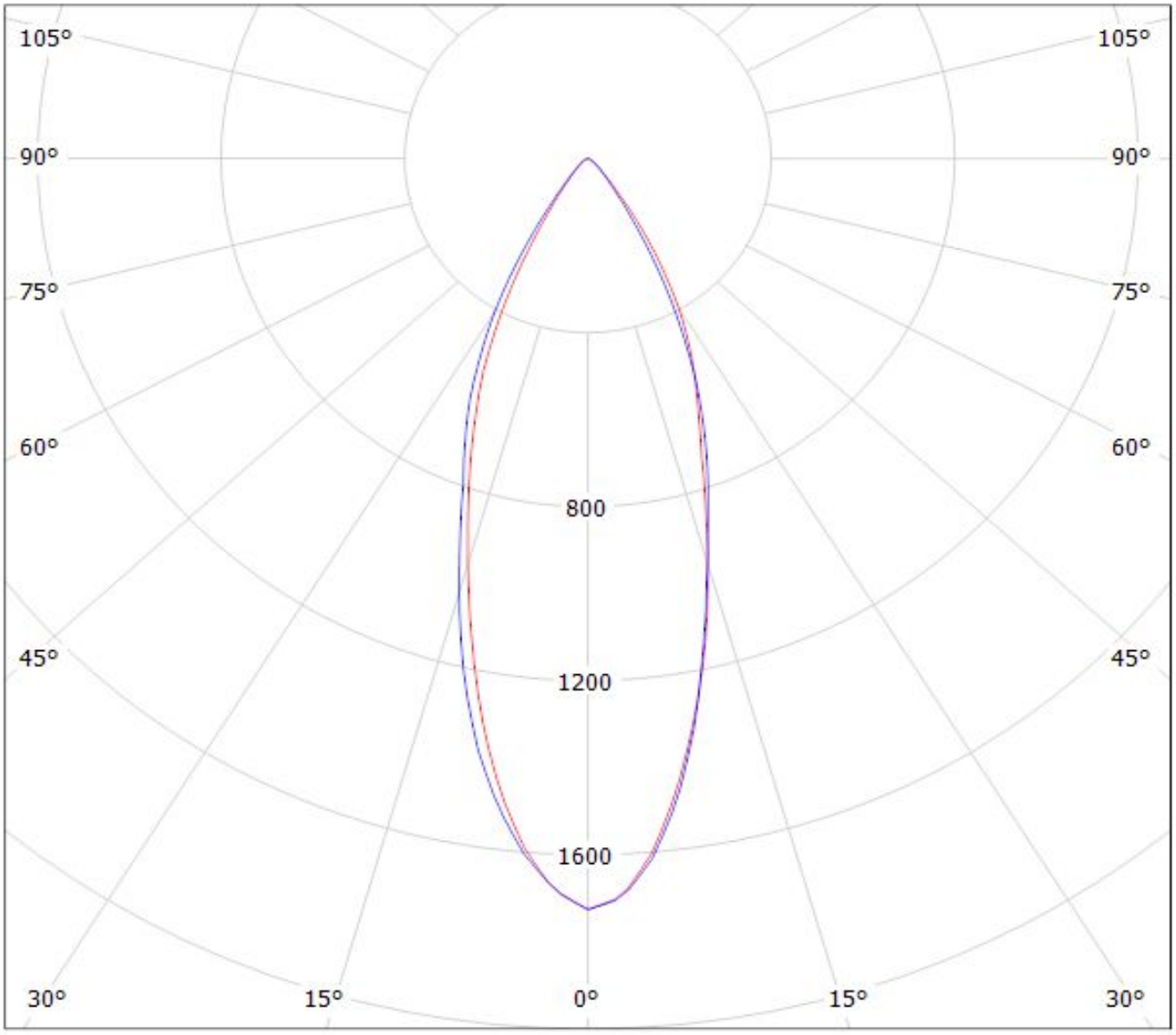
Luminaire: LEDiL Oy FP11124&FP11120_Lisa2-O_(SSL80) Eff.80.4%
Lamps: 1 x Oslon SSL80 (77.5621lm@250mA)



Luminaire: Ledil Oy FP11957 & FP11958_LISA2-WWW (Osram Oslon 80 79lm @ 250mA) Efficiency=74%
Lamps: 1 x Osram Oslon 80 79lm @ 250mA



Luminaire: LEDiL Oy FP11002 & FP11082_LISA2-W_(SSL80) Eff.87.5%
Lamps: 1 x Oslon SSL80 (77.5072lm@250mA)

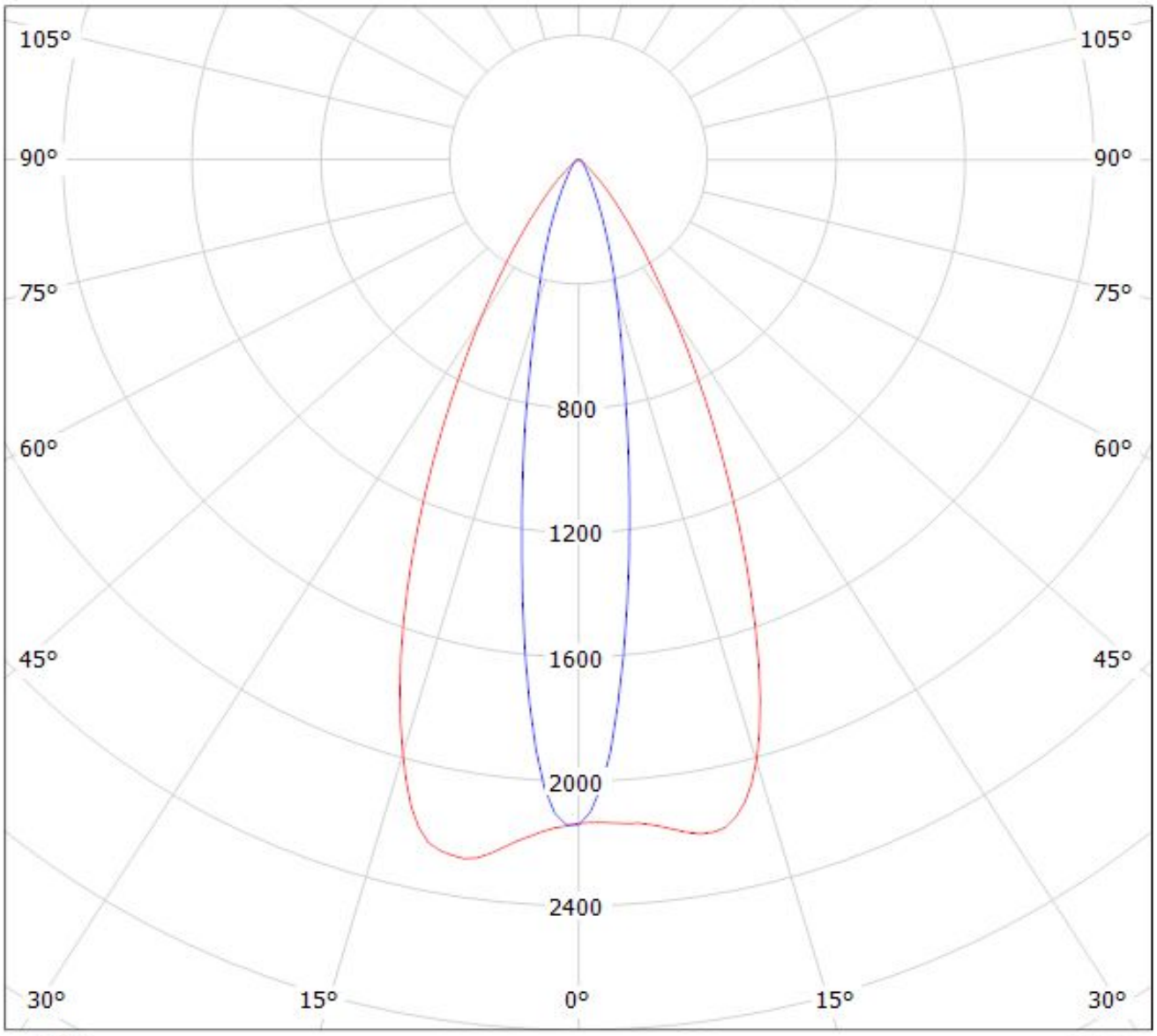
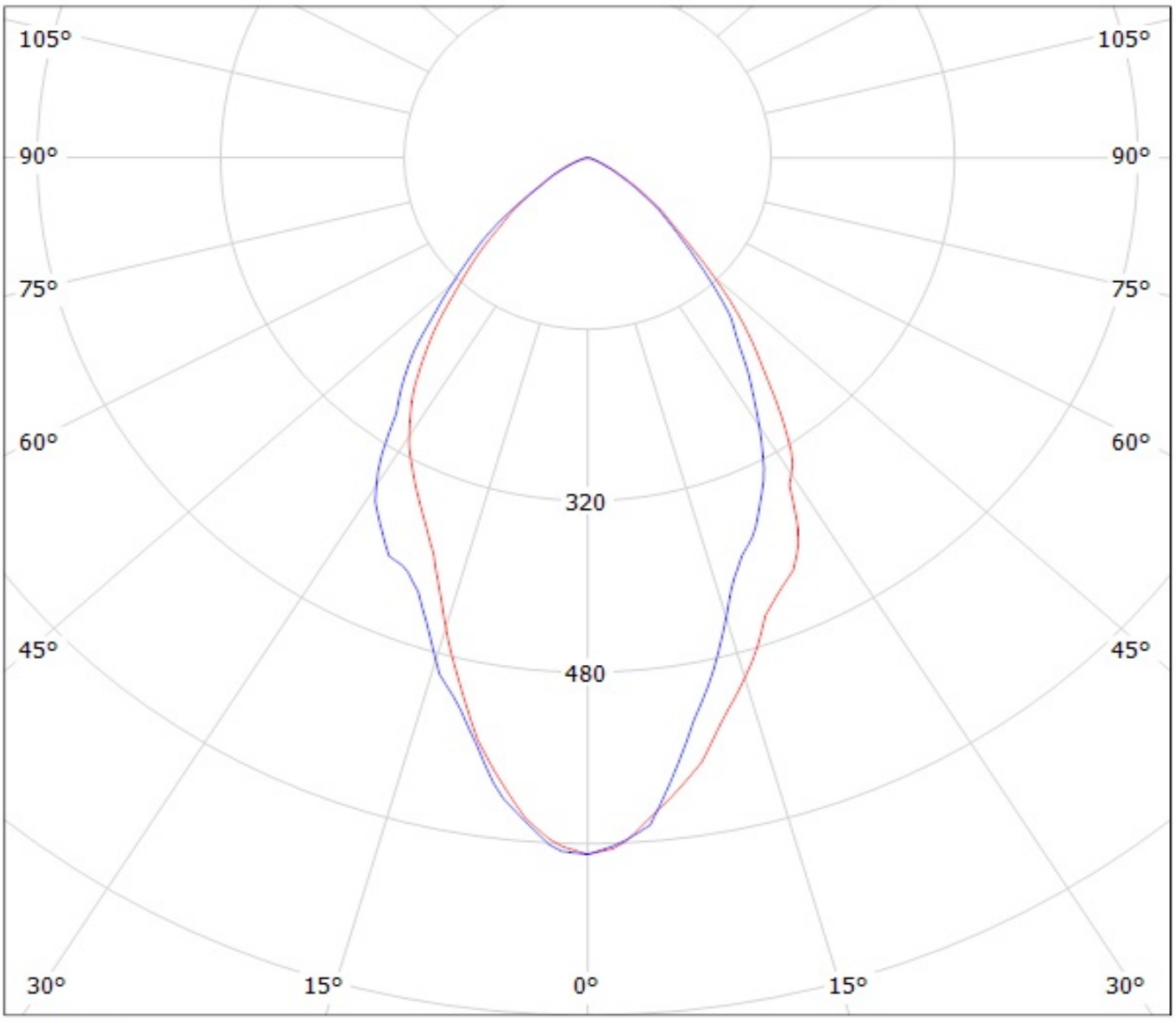


cd/klm

η = 88%

C0 - C180 C90 - C270

Luminaire: LEDiL Oy FP11124&FP11120_Lisa2-O_(SSL80) Eff.80.4%
Lamps: 1 x Oslon SSL80 (77.5621lm@250mA)



Luminaire: Ledil Oy FP11957 & FP11958_LISA2-WWW (Osram Oslon 80 79lm @ 250mA) Efficiency=74%
Lamps: 1 x Osram Oslon 80 79lm @ 250mA