

**Ordering number CA12378_TINA2-W**

Family	Tina2	FWHM	(simulated) 32
Type	Assembly	Efficiency	(simulated) 90 %
LED	Oslon SSL 80	cd/Im	-
Color	Black	Gerber File	Available
Diameter	16 mm		
Height	9.5 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	PC		
Fastening	Pin, tape		
Status	Ready		

**Ordering number CA12376_TINA2-SS**

Family	Tina2	FWHM	(simulated) 26
Type	Assembly	Efficiency	(simulated) 91 %
LED	Oslon SSL 80	cd/Im	-
Color	Black	Gerber File	Available
Diameter	16 mm		
Height	9.26 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	PC		
Fastening	-		
Status	Ready		

**Ordering number CP12687_TINA2-RS**

Family	Tina2	FWHM	9 degrees
Type	Assembly	Efficiency	88 %
LED	Oslon SSL 80	cd/Im	16.000
Color	Black	Gerber File	Available
Diameter	16.1 mm		
Height	9.5 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	PC		
Fastening	Glue		
Status	Ready		

**Ordering number CA12374_TINA2-RS**

Family	Tina2	FWHM	10 degrees
Type	Assembly	Efficiency	88 %
LED	Oslon SSL 80	cd/Im	16.000
Color	Black	Gerber File	Available
Diameter	16 mm		
Height	9.5 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	PC		
Fastening	Pin, tape		
Status	Ready		

**Ordering number CP12688_TINA2-D**

Family	Tina2	FWHM	11 degrees
Type	Assembly	Efficiency	87 %
LED	Oslon SSL 80	cd/Im	10.000
Color	Black	Gerber File	Available
Diameter	16.1 mm		
Height	9.5 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	PC		
Fastening	Glue		
Status	Ready		

**Ordering number CA12375_TINA2-D**

Family	Tina2	FWHM	12 degrees
Type	Assembly	Efficiency	87 %
LED	Oslon SSL 80	cd/Im	7.855
Color	Black	Gerber File	Available
Diameter	16 mm		
Height	9.26 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	PC		
Fastening	Pin, tape		
Status	Ready		

**Ordering number CA12379_TINA2-O**

Family	Tina2	FWHM	12+35 degrees
Type	Assembly	Efficiency	86 %
LED	Oslon SSL 80	cd/Im	3.800
Color	Black	Gerber File	Available
Diameter	16 mm		
Height	9.26 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	PC		
Fastening	Pin, tape		
Status	Ready		

**Ordering number CA12377_TINA2-M**

Family	Tina2	FWHM	31 degrees
Type	Assembly	Efficiency	84 %
LED	Oslon SSL 80	cd/Im	2.280
Color	Black	Gerber File	Available
Diameter	16 mm		
Height	9.5 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	PC		
Fastening	Pin, tape		
Status	Ready		

**Ordering number CP12690_TINA2-M**

Family	Tina2	FWHM	31 degrees
Type	Assembly	Efficiency	84 %
LED	Oslon SSL 80	cd/lm	2.600
Color	Black	Gerber File	Available
Diameter	16.1 mm		
Height	9.5 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	PC		
Fastening	Glue		
Status	Ready		

**Ordering number CP12689_TINA2-O**

Family	Tina2	FWHM	35+13 degrees
Type	Assembly	Efficiency	86 %
LED	Oslon SSL 80	cd/lm	3.700
Color	Black	Gerber File	Available
Diameter	16.1 mm		
Height	9.5 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	PC		
Fastening	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 Oscon 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%20N%20UL94_Yellow%20Card.pdf

<http://ledil.fi/sites/default/files/Documents/Technical/Material/PMMA%20N%20PLEXIGLAS-Datasheet.pdf>

- Optic holder molded by high quality PC material (120 degrees of Celcius / 248 degrees of Fahrenheit).

- Fastening to heat sink with a PU foam adhesive tape of automotive grade. Please find fastening details by clicking link: http://www.ledil.com/datasheets/DataSheet_TAPE.pdf

- 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 board weaken the strength of the tape.

NOTE 2: Assembly to the surface must be made straight, so the tape bonds constant and balanced with fastening surface. Slanted assembly might cause unbalanced bond to the surface. All surfaces where tape 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.

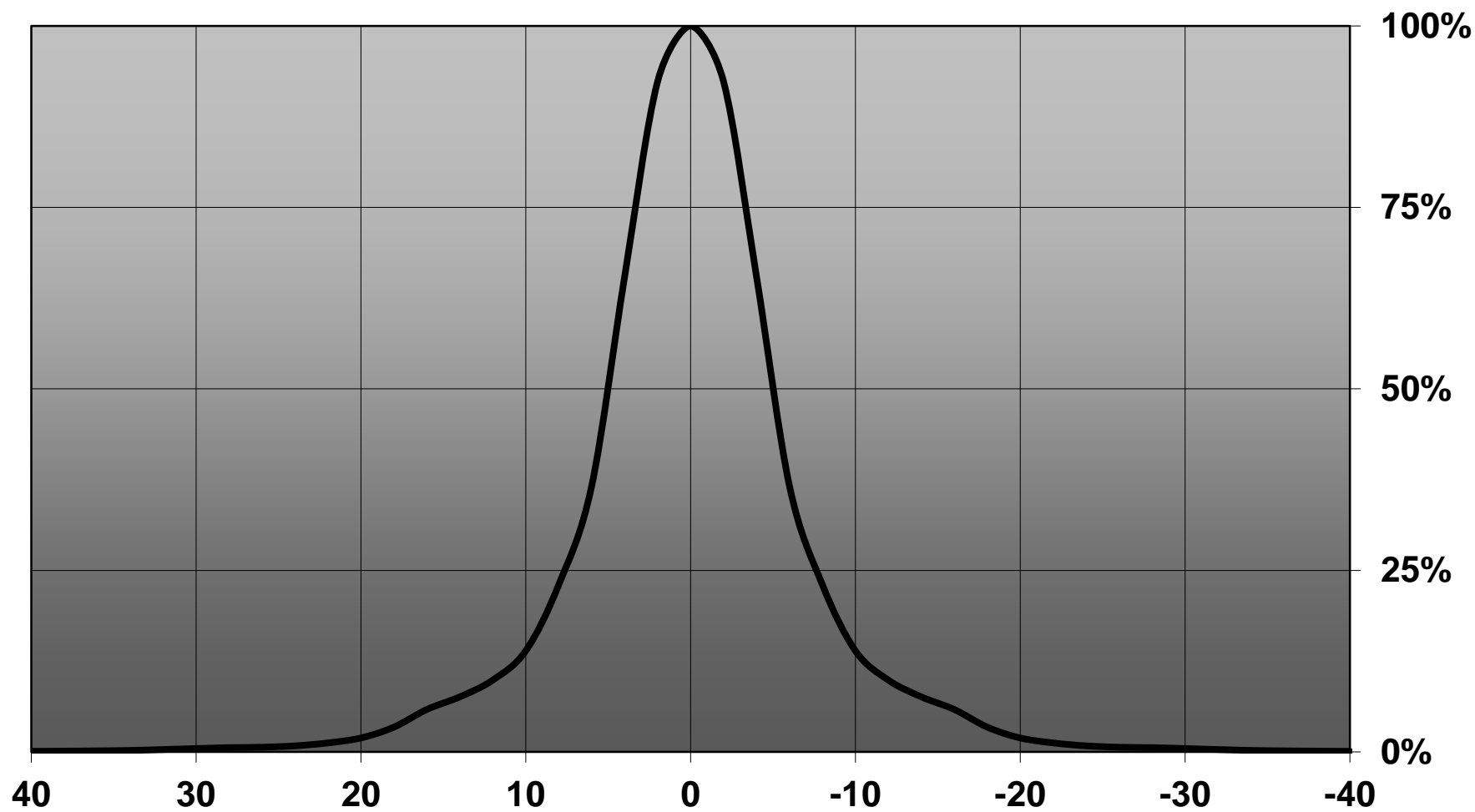
Further note that optical components shall not be cleaned with any chemicals - only micro fiber cloth may be used to remove fingerprints or other traces from handling.

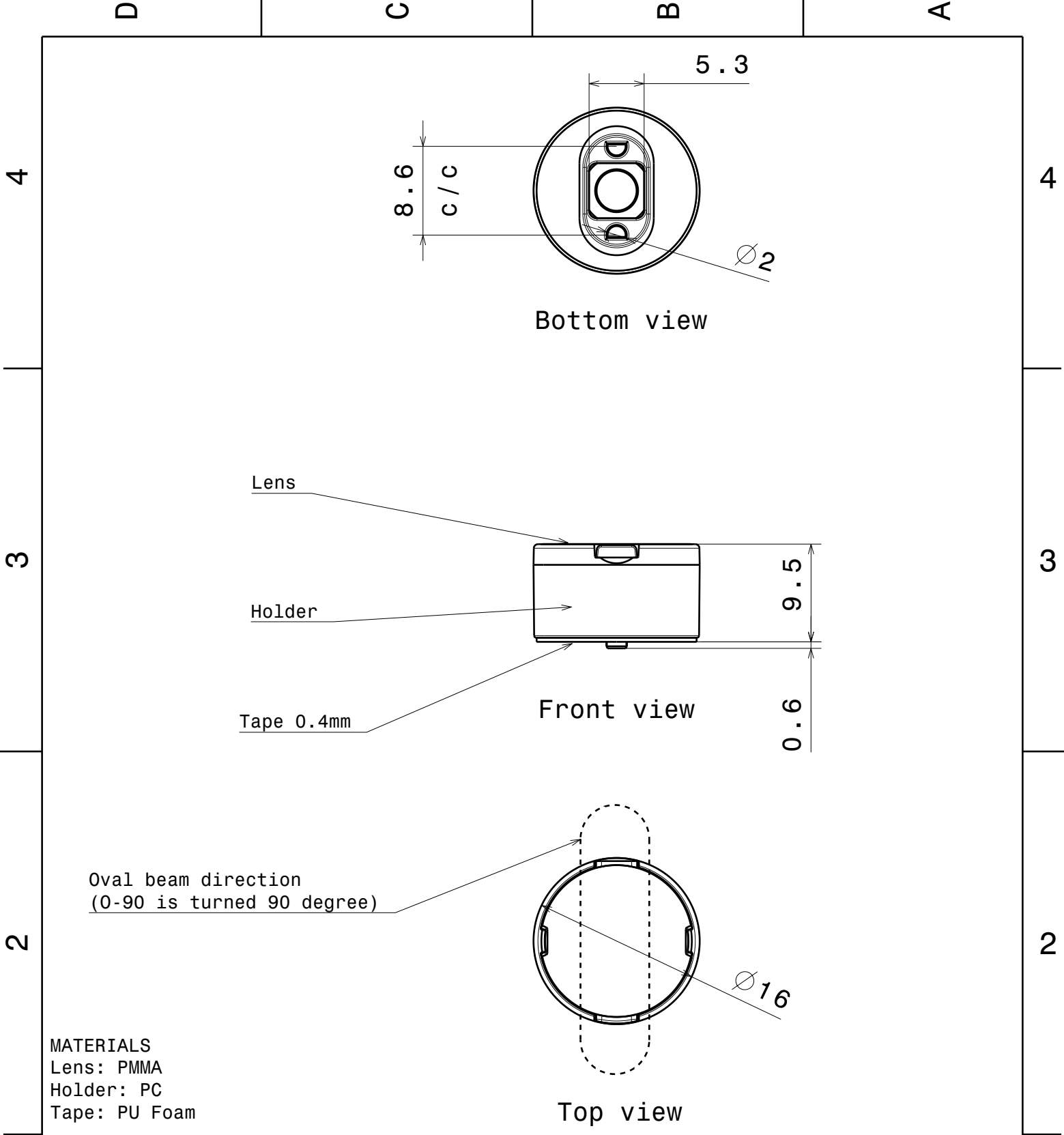
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Relative intensity of CA12374_Tina2-RS-OSL80





MATERIALS
Lens: PMMA
Holder: PC
Tape: PU Foam

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Ledil Oy
Salorankatu 10
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Finland

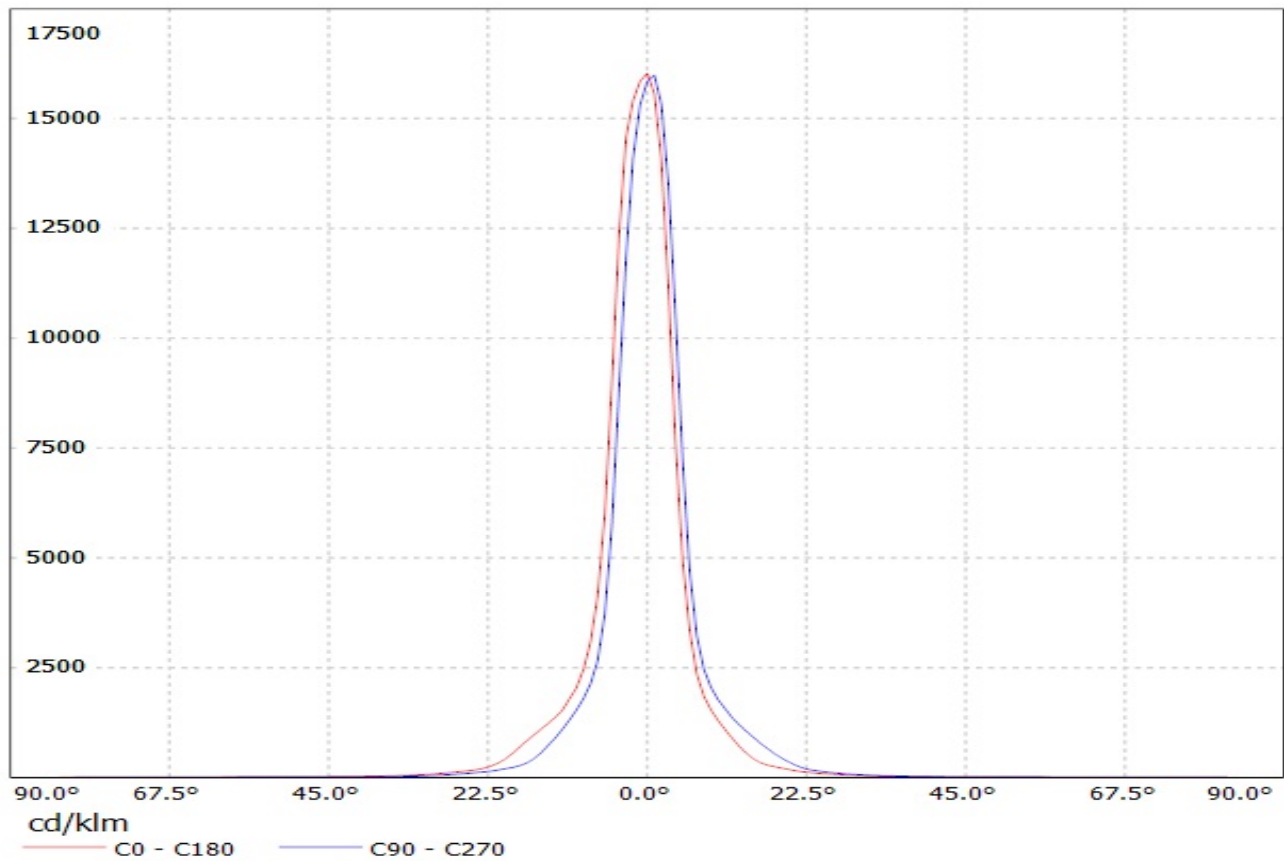
DRAWING TITLE

Datasheet Tina2-OSL

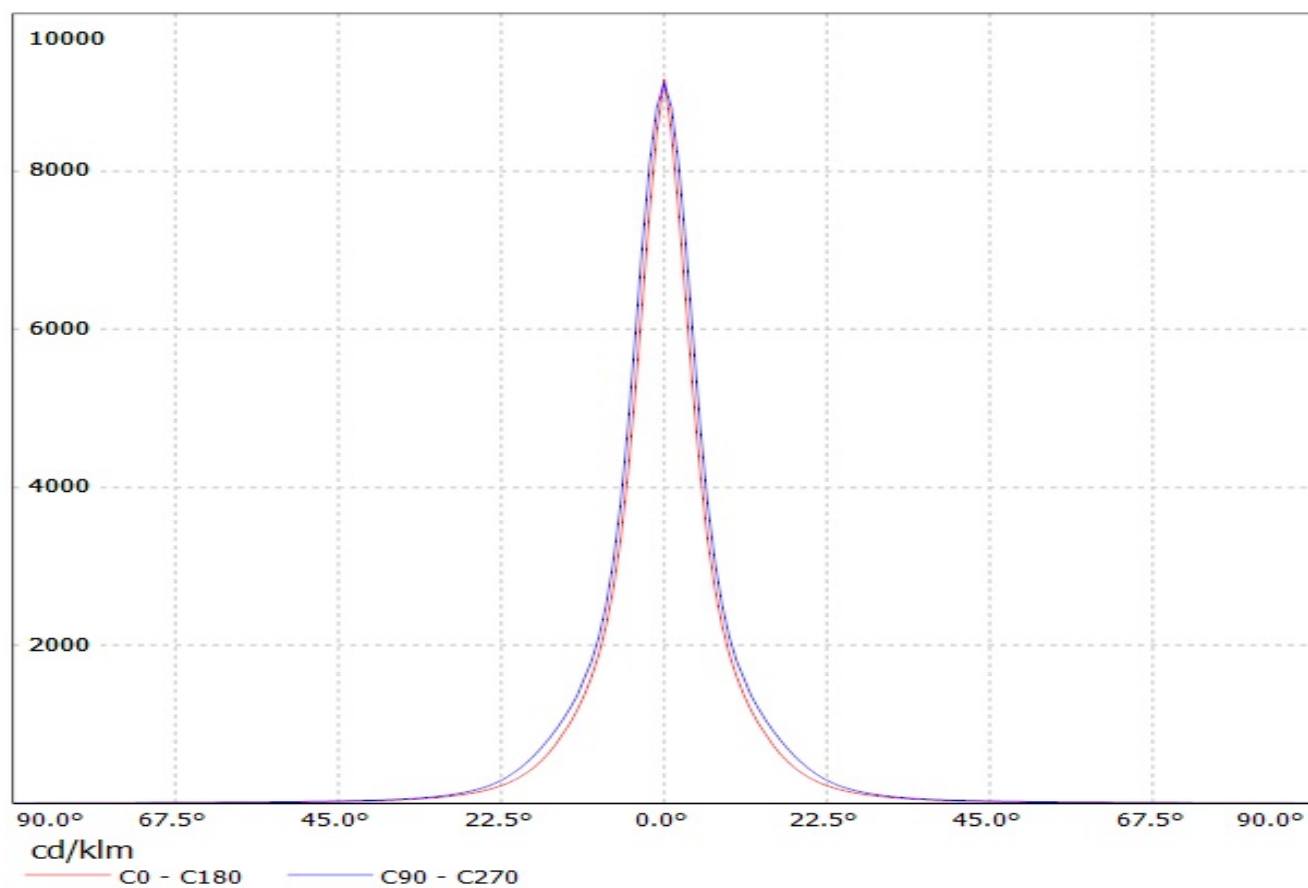
DRAWN BY ah	DATE 28.12.2011
CHECKED BY sn	DATE 28.12.2011
DESIGNED BY ol	DATE xx

SIZE A4	DRAWING NUMBER	REV 1
SCALE 3 : 1	WEIGHT (g) -	SHEET 1 / 1

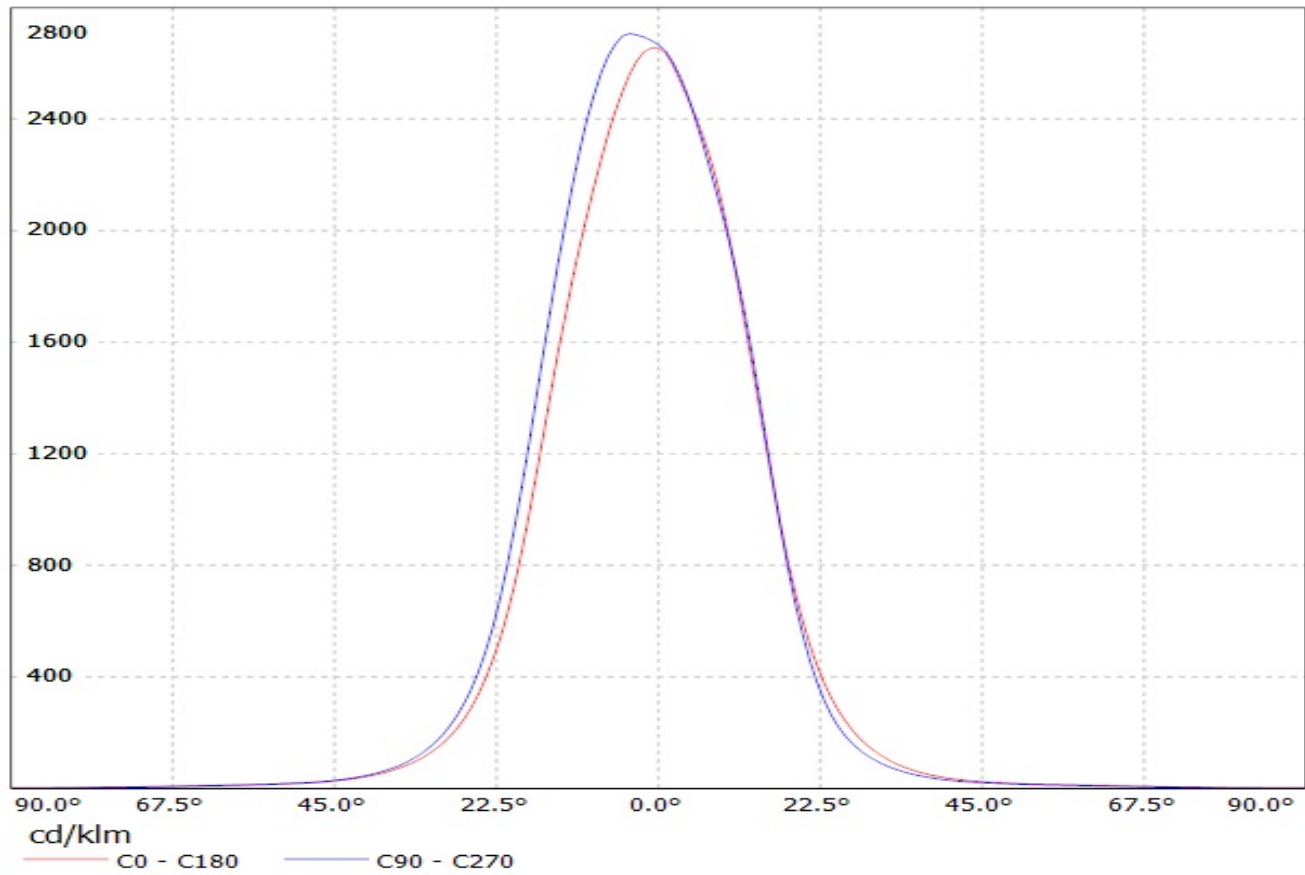
Luminaire: LEDIL OY CP12687_TINA2-RS (SSL80) Efficiency=88%
Lamps: 1 x Osram Oslon SSL 80° (85lm@250mA)



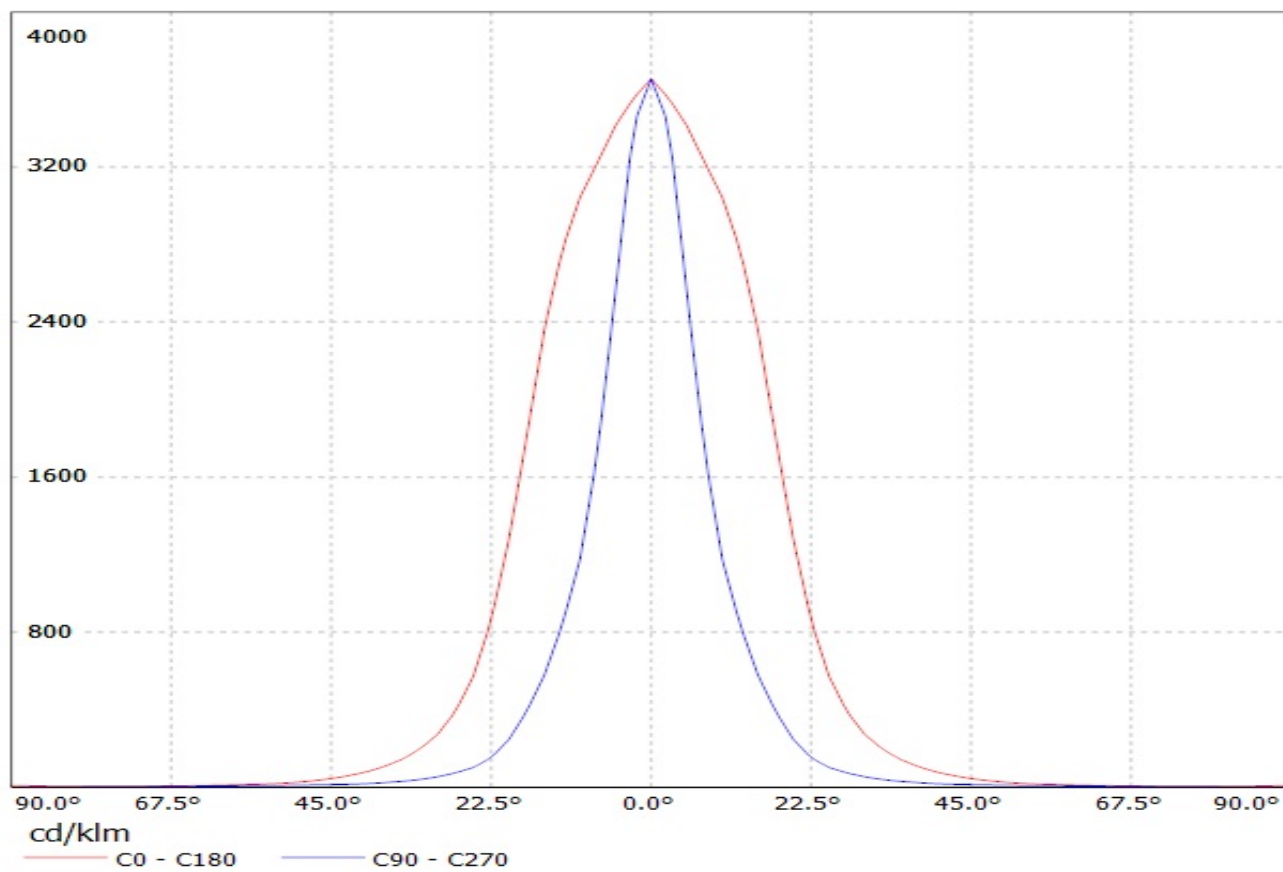
Luminaire: LEDIL OY CP12688_TINA2-D (SSL80) Efficiency=87%
Lamps: 1 x Osram Oslon SSL 80° (85lm@250mA)



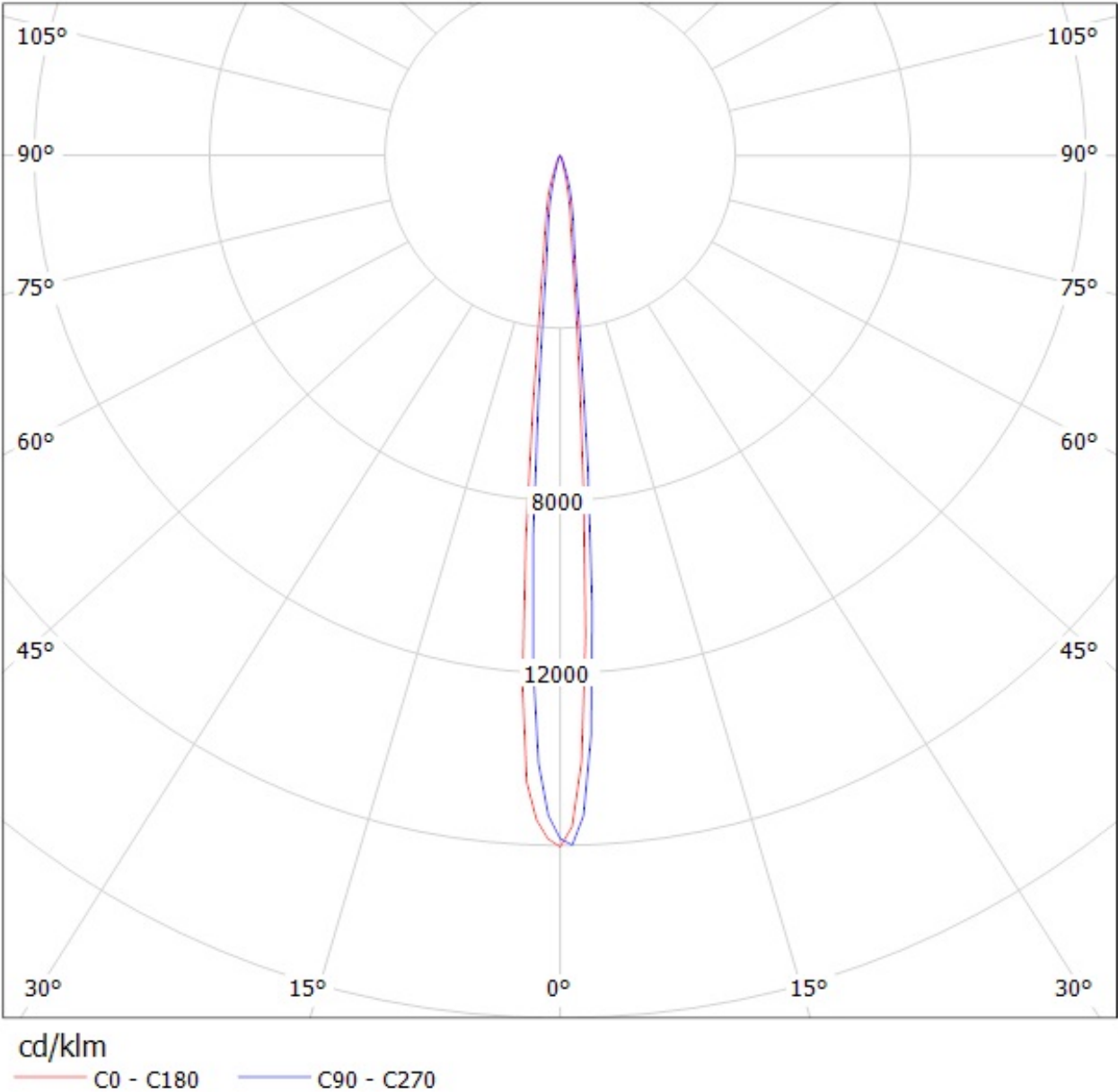
Luminaire: LEDIL OY CP12690_TINA2-M (SSL80) Efficiency=84%
Lamps: 1 x Osram Oslon SSL 80° (85lm@250mA)



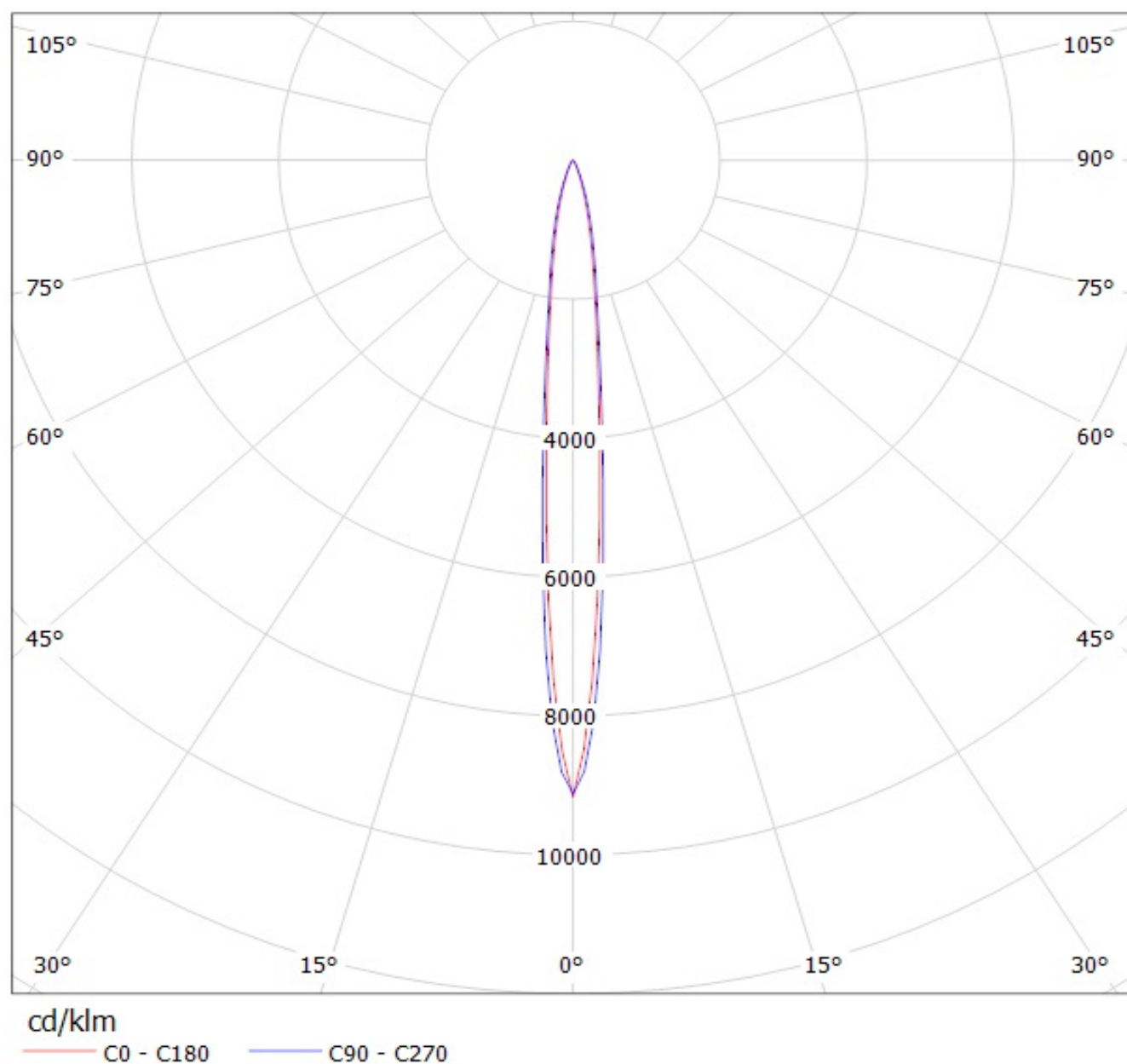
Luminaire: LEDIL OY CP12689_TINA2-O (SSL80) Efficiency=86%
Lamps: 1 x Osram Oslon SSL 80° (85lm@250mA)



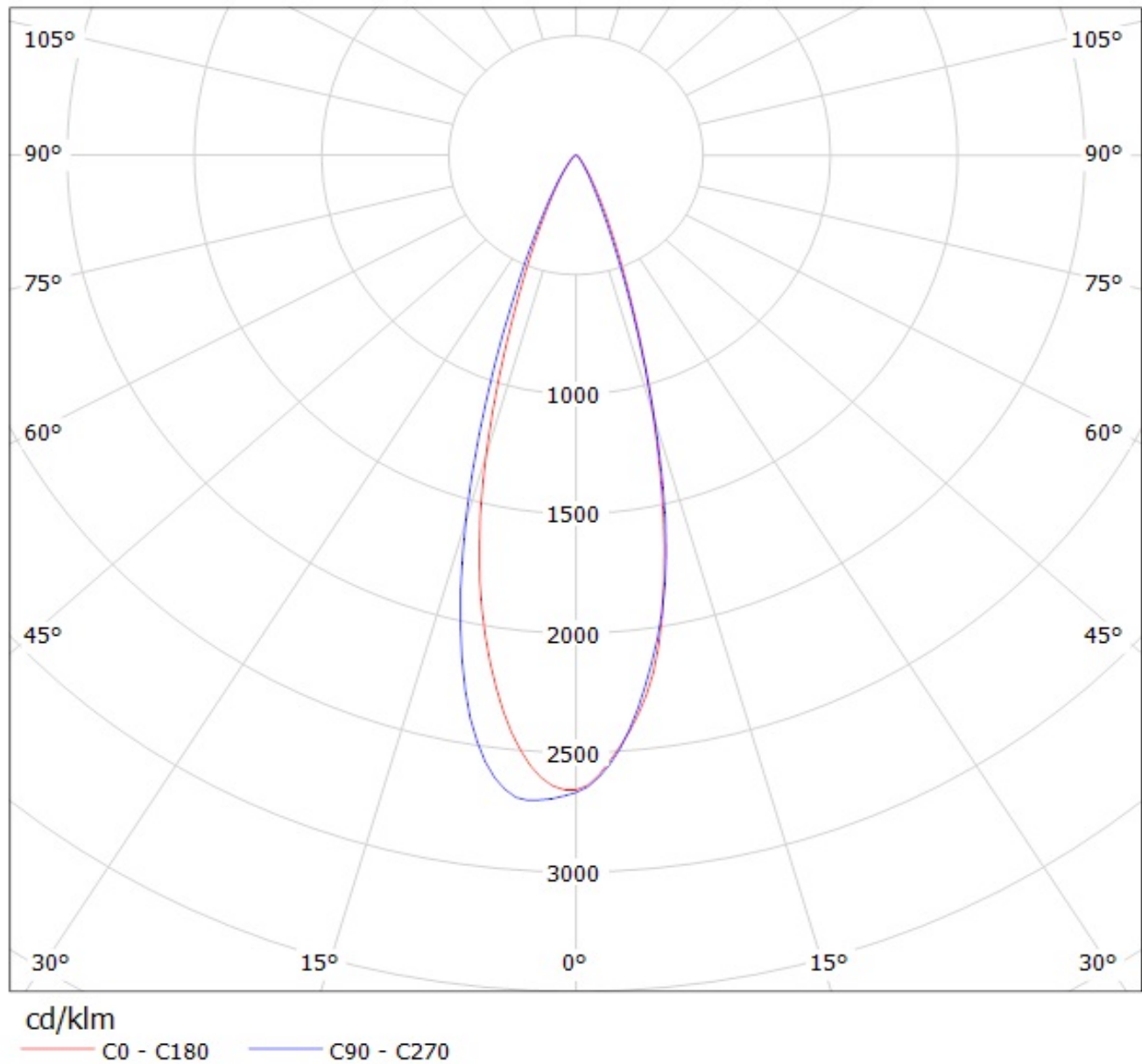
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Lamps: 1 x Osram Oslon SSL 80° (85lm@250mA)



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