PRODUCT DATASHEET
Eva series
last update 20/12/2012

Product number **C12041_EVA-S**

Family	Eva	FWHM	13 degrees
Type	Lens	Efficiency	94 %
LED	XM-L	cd/lm	-
Color	Clear	Gerber File	Available
Diameter	35 mm		
Height	16.4 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	-		
Fastening	-		
Status	Production ready		

Outer flange can be secured in fixture for hardware-free attachment

Product number **CA12055_EVA-S**

Family	Eva	FWHM	13 degrees
Type	Assembly	Efficiency	92 %
LED	XM-L	cd/lm	-
Color	Black	Gerber File	Available
Diameter	37.7 mm		
Height	17.2 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	-		
Fastening	["tape", "screw"]		
Status	Production ready		

Product number **CP12196_EVA-S**

Family	Eva	FWHM	13 degrees
Type	Assembly	Efficiency	94 %
LED	XM-L	cd/lm	-
Color	Black	Gerber File	Available
Diameter	37.7 mm		
Height	17 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	-		
Fastening	["glue", "screw"]		
Status	Production ready		

Product number **C12828_EVA-O**

Family	Eva	FWHM	15.5+39 degrees
Type	Lens	Efficiency	86 %
LED	XM-L	cd/lm	3.300
Color	Clear	Gerber File	Available
Diameter	35 mm		
Height	16.4 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	-		
Fastening	-		
Status	Production ready		

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PRODUCT DATASHEET
Eva series
last update 20/12/2012

Product number **CA12859_EVA-O**

Family	Eva	FWHM	15.5+39 degrees
Type	Assembly	Efficiency	86 %
LED	XM-L	cd/lm	3.300
Color	Black	Gerber File	Available
Diameter	37.7 mm		
Height	17.2 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	-		
Fastening	["tape"]		
Status	Production ready		

Product number **CP12860_EVA-O**

Family	Eva	FWHM	15.5+39 degrees
Type	Assembly	Efficiency	86 %
LED	XM-L	cd/lm	3.300
Color	Black	Gerber File	Available
Diameter	37.7 mm		
Height	17 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	-		
Fastening	["screw"]		
Status	Production ready		

Product number **C10684_EVA-D**

Family	Eva	FWHM	16 degrees
Type	Lens	Efficiency	91 %
LED	XM-L	cd/lm	-
Color	Clear	Gerber File	Available
Diameter	35 mm		
Height	16.4 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	-		
Fastening	-		
Status	Production ready		

Outer flange can be secured in fixture for hardware-free attachment.

Product number **CA12057_EVA-D**

Family	Eva	FWHM	16 degrees
Type	Assembly	Efficiency	90 %
LED	XM-L	cd/lm	-
Color	Black	Gerber File	Available
Diameter	37.7 mm		
Height	17.2 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	-		
Fastening	["tape", "screw"]		
Status	Production ready		

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PRODUCT DATASHEET
Eva series
last update 20/12/2012

Product number **CP12197_EVA-D**

Family	Eva	FWHM	20 degrees
Type	Assembly	Efficiency	91 %
LED	XM-L	cd/lm	-
Color	Black	Gerber File	Available
Diameter	37.7 mm		
Height	17 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	-		
Fastening	["glue", "screw"]		
Status	Production ready		

Product number **C10685_EVA-M**

Family	Eva	FWHM	24 degrees
Type	Lens	Efficiency	88 %
LED	XM-L	cd/lm	-
Color	Clear	Gerber File	Available
Diameter	35 mm		
Height	16.4 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	-		
Fastening	-		
Status	Production ready		

Outer flange can be secured in fixture for hardware-free attachment

Product number **CA12058_EVA-M**

Family	Eva	FWHM	24 degrees
Type	Assembly	Efficiency	89 %
LED	XM-L	cd/lm	-
Color	Black	Gerber File	Available
Diameter	37.7 mm		
Height	17.2 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	-		
Fastening	["tape", "screw"]		
Status	Production ready		

Product number **CP12198_EVA-M**

Family	Eva	FWHM	24 degrees
Type	Assembly	Efficiency	88 %
LED	XM-L	cd/lm	-
Color	Black	Gerber File	Available
Diameter	37.7 mm		
Height	17 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	-		
Fastening	["glue", "screw"]		
Status	Production ready		

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PRODUCT DATASHEET
Eva series
last update 20/12/2012

Product number **C10686_EVA-W**

Family	Eva	FWHM	40 degrees
Type	Lens	Efficiency	79 %
LED	XM-L	cd/lm	-
Color	Clear	Gerber File	Available
Diameter	35 mm		
Height	16.4 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	-		
Fastening	-		
Status	Production ready		

Outer flange can be secured in fixture for hardware-free attachment

Product number **CA12059_EVA-W**

Family	Eva	FWHM	40 degrees
Type	Assembly	Efficiency	83 %
LED	XM-L	cd/lm	-
Color	Black	Gerber File	Available
Diameter	37.7 mm		
Height	17.2 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	-		
Fastening	["tape", "screw"]		
Status	Production ready		

Product number **CP12199_EVA-W**

Family	Eva	FWHM	40 degrees
Type	Assembly	Efficiency	79 %
LED	XM-L	cd/lm	-
Color	Black	Gerber File	Available
Diameter	37.7 mm		
Height	17 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	-		
Fastening	["screw", "glue"]		
Status	Production ready		

Product number **C10909_EVA-WW**

Family	Eva	FWHM	64 degrees
Type	Lens	Efficiency	77 %
LED	XM-L	cd/lm	-
Color	Clear	Gerber File	Available
Diameter	35 mm		
Height	16.4 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	-		
Fastening	-		
Status	Production ready		

Outer flange can be secured in fixture for hardware-free attachment

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PRODUCT DATASHEET
Eva series
last update 20/12/2012

Product number **CA12060_EVA-WW**

Family	Eva	FWHM	64 degrees
Type	Assembly	Efficiency	79 %
LED	XM-L	cd/lm	-
Color	Black	Gerber File	Available
Diameter	37.7 mm		
Height	17.2 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	-		
Fastening	["screw", "tape"]		
Status	Production ready		

Product number **CP12200_EVA-WW**

Family	Eva	FWHM	64 degrees
Type	Assembly	Efficiency	77 %
LED	XM-L	cd/lm	-
Color	Black	Gerber File	Available
Diameter	37.7 mm		
Height	17 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	-		
Fastening	["screw", "glue"]		
Status	Production 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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PRODUCT DATASHEET
Eva series
last update 20/12/2012

GENERAL INFORMATION

- Product series especially designed & optimized for XM-L 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

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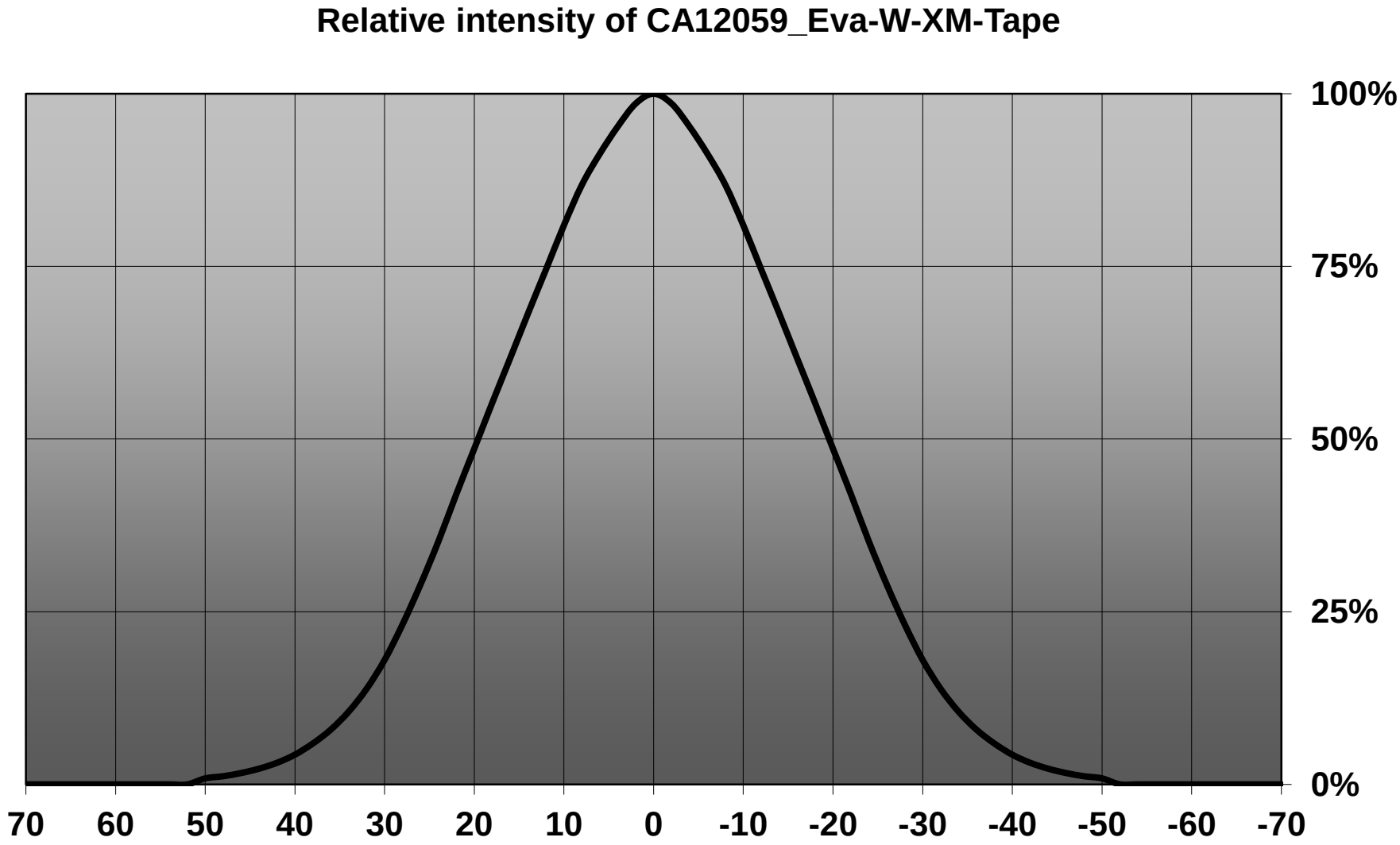
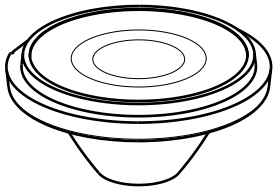
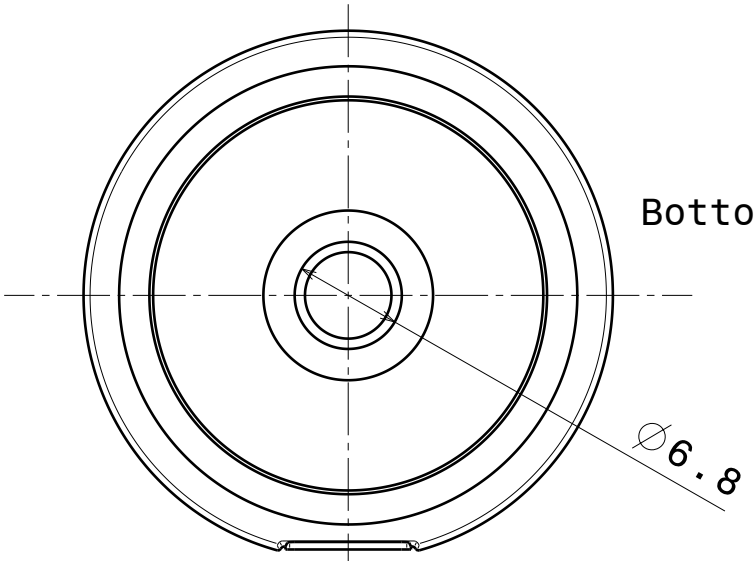
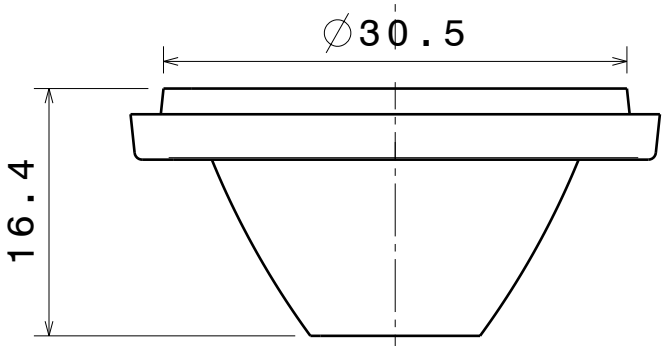

Relative intensity of CA12059_Eva-W-XM-Tape
100%
75%
50%
25%
0%
70
60
50
40
30
20
10
0
-10
-20
-30
-40
-50
-60
-70



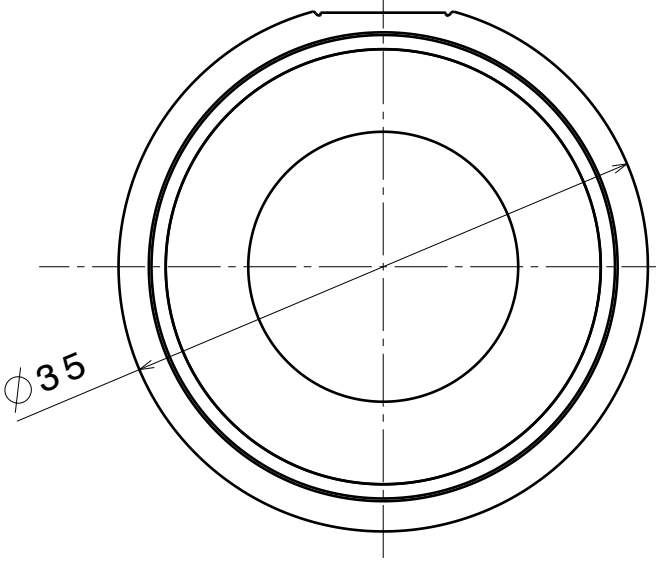
Isometric view



Bottom view



Side view



Top view

Tolerances if not otherwise shown:
According to DIN ISO 2768-1
Linear measures:
Up to 30mm class M, otherwise class C.

According to DIN ISO 2768-2
Form and position:
class L

Raw material(s):
PMMA 8N

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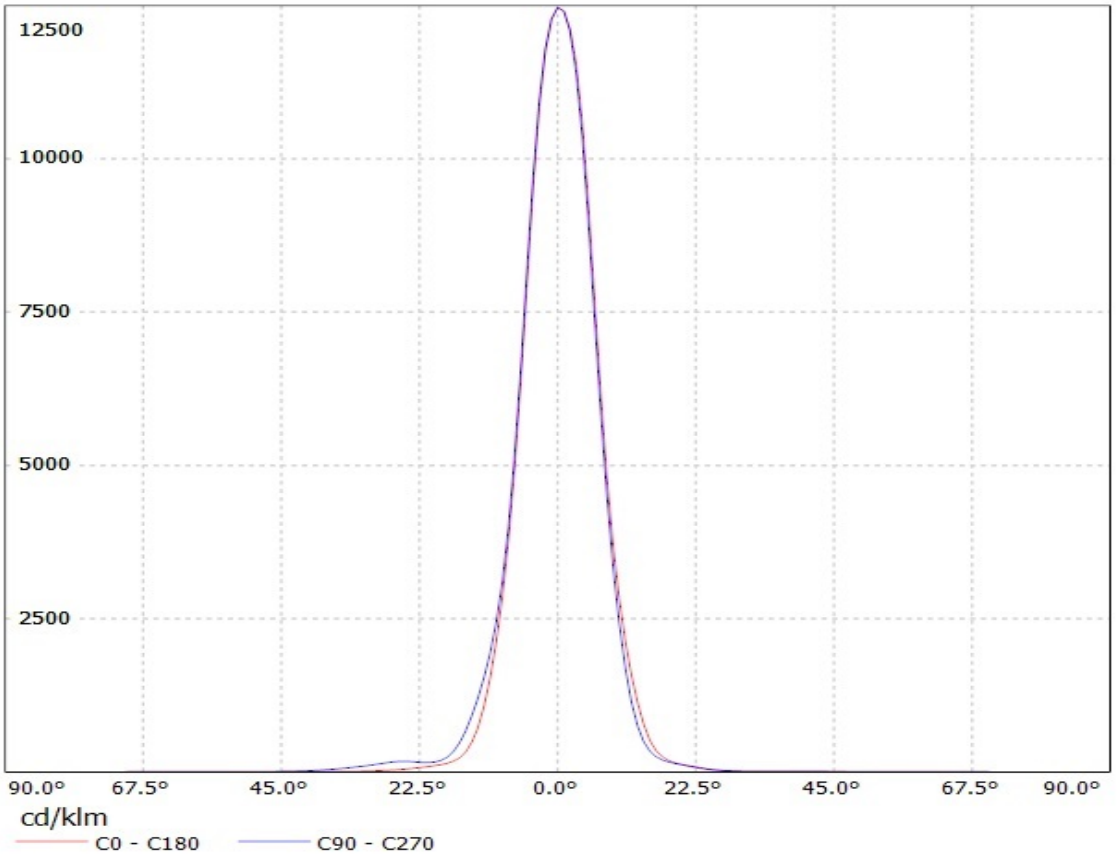
Finland

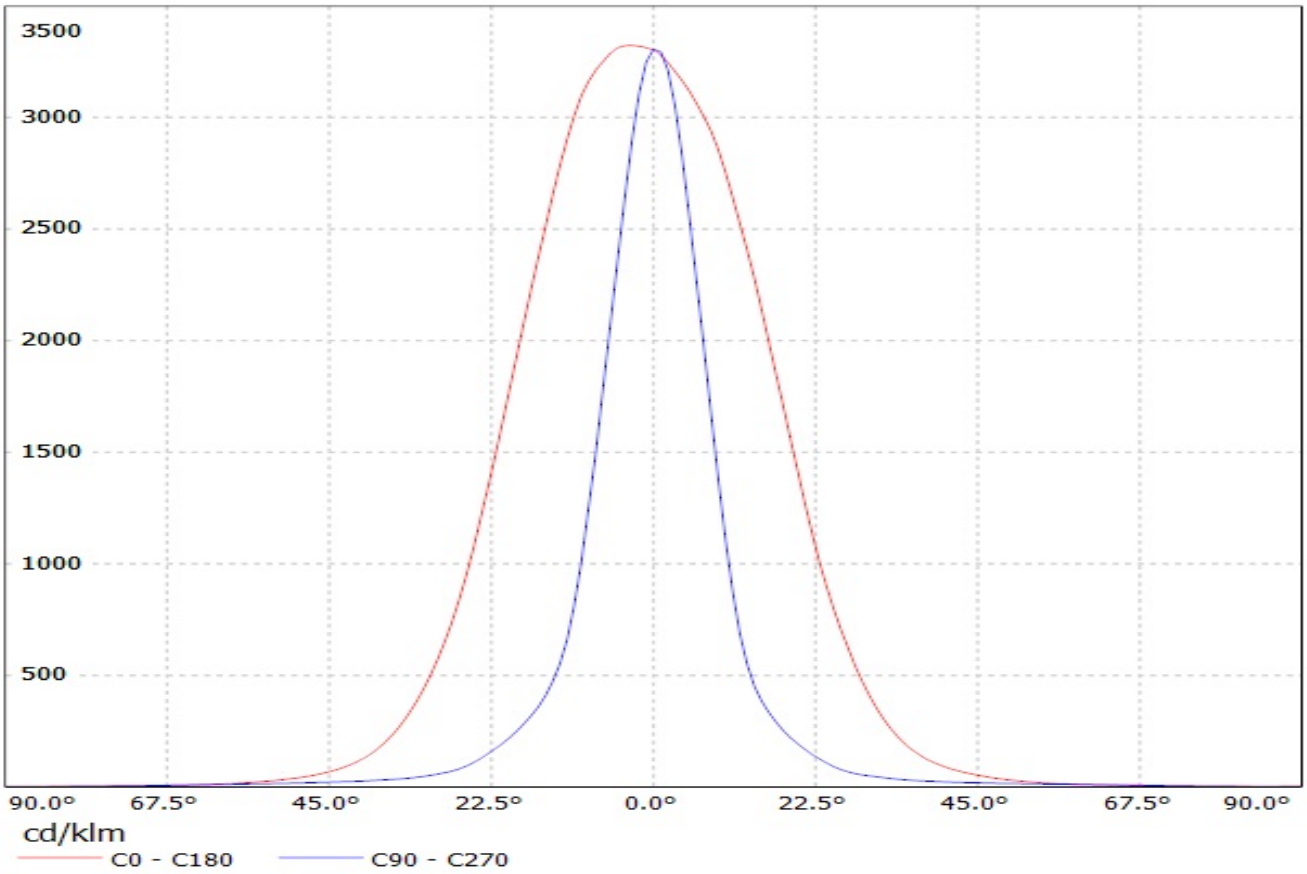
DRAWN BY: ah	DATE: 1.3.2013	DRAWING TITLE: Datasheet Eva Spot Lens			
CHECKED BY	DATE	SIZE: A4	DRAWING NUMBER: C12041		REV: 1
DESIGNED BY: HH	DATE: 26.08.2008	SCALE: 2:1	WEIGHT(g)		SHEET: 1/1

Luminaire: Ledil CA12055_Eva-S-XM-Tape CA12055_Eva-S-XM-Tape
Lamps: 1 x LED Module

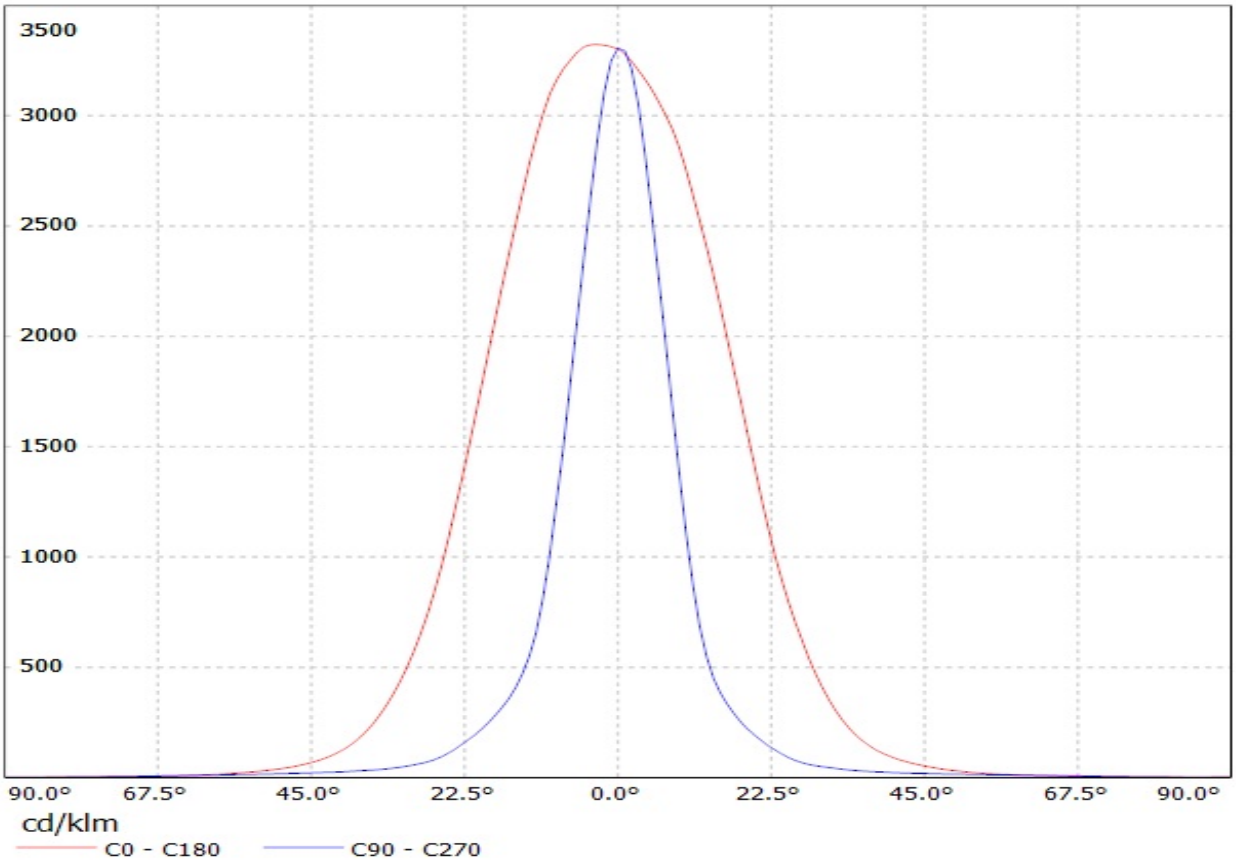


SIMULATED

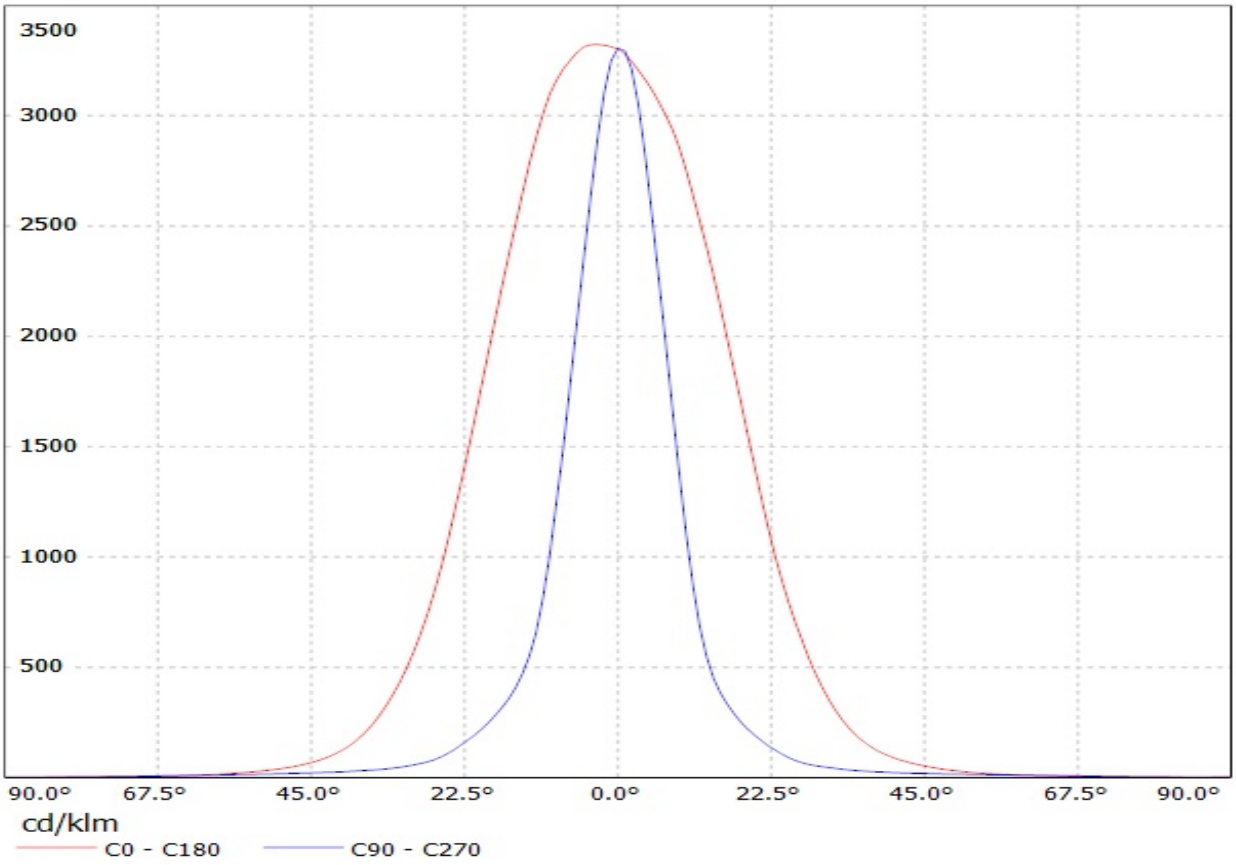
Luminaire: LEDIL OY C12828_EVA-O (XM-L) Efficiency=86%
Lamps: 1 x Cree XM-L (111lm @ 250mA)



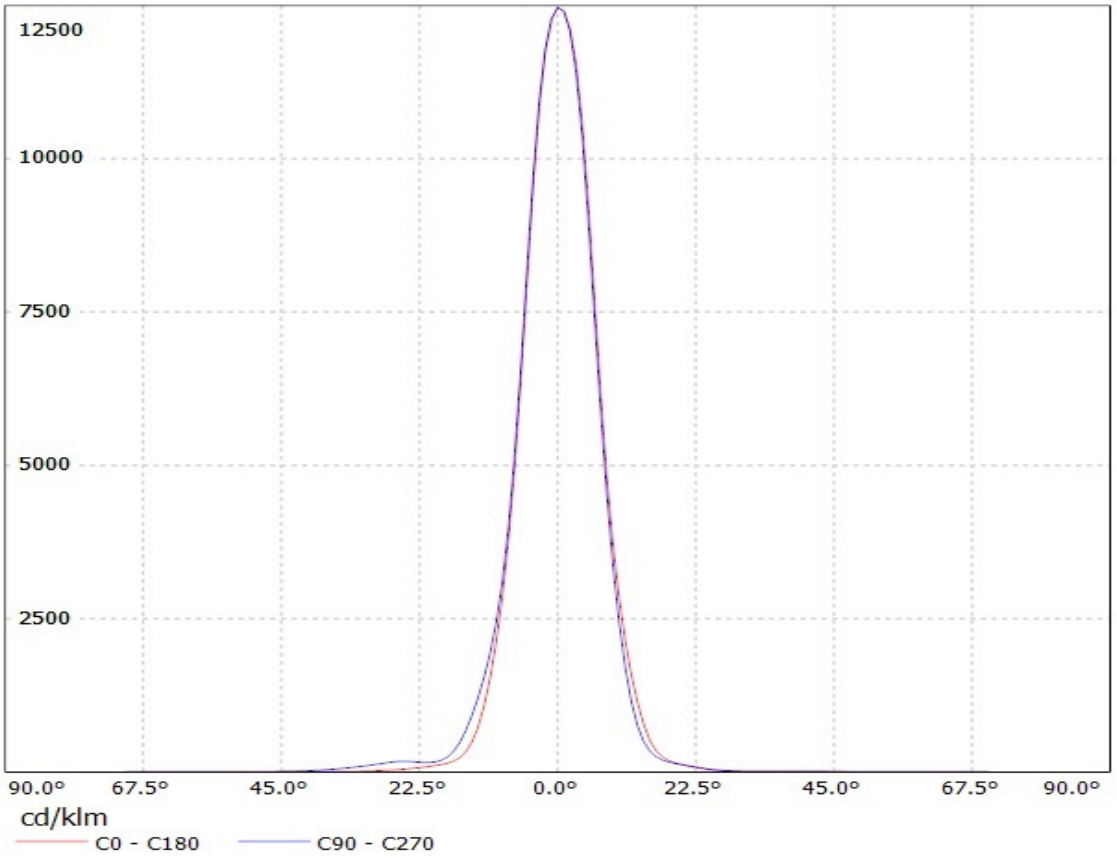
Luminaire: LEDIL OY CA12859_EVA-O / CP12860_EVA-O (XM-L) Efficiency=86%
Lamps: 1 x Cree XM-L (111lm @ 250mA)



Luminaire: LEDIL OY CA12859_EVA-O / CP12860_EVA-O (XM-L) Efficiency=86%
Lamps: 1 x Cree XM-L (111lm @ 250mA)

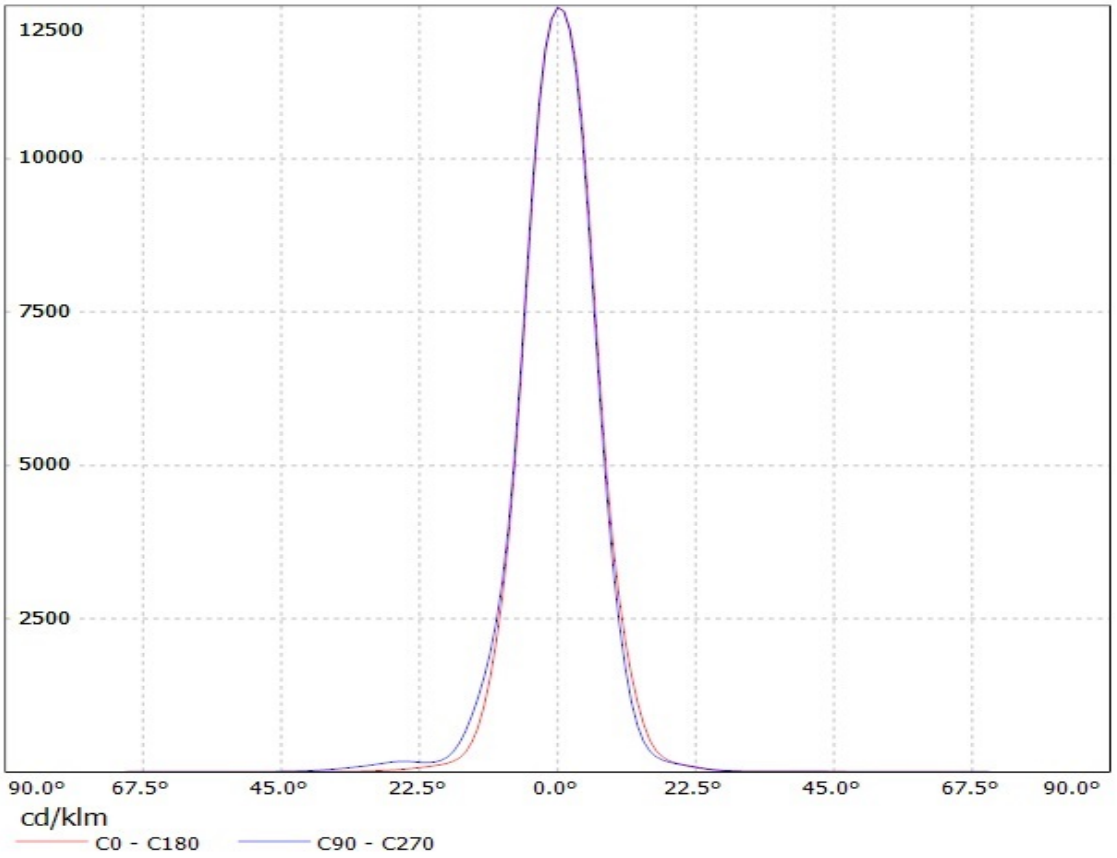


Luminaire: Ledil CA12055_Eva-S-XM-Tape CA12055_Eva-S-XM-Tape
Lamps: 1 x LED Module



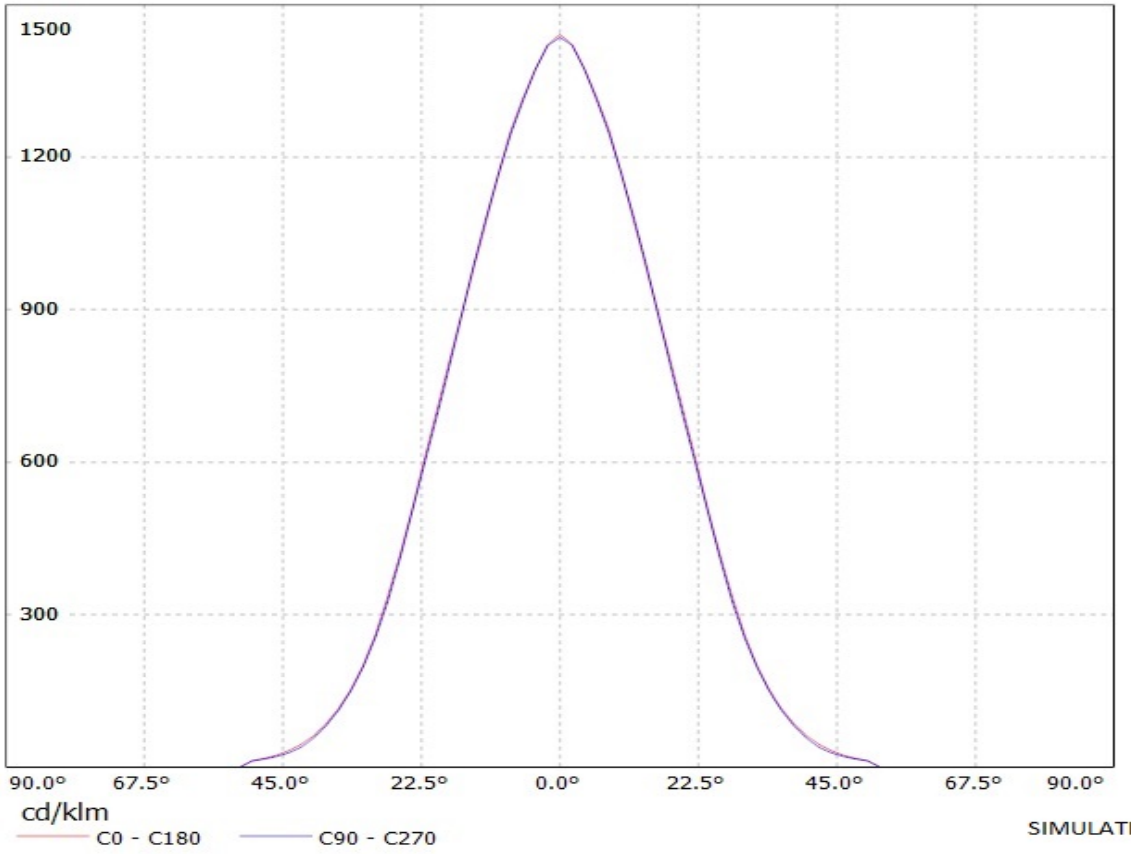
SIMULATED

Luminaire: Ledil CA12055_Eva-S-XM-Tape CA12055_Eva-S-XM-Tape
Lamps: 1 x LED Module



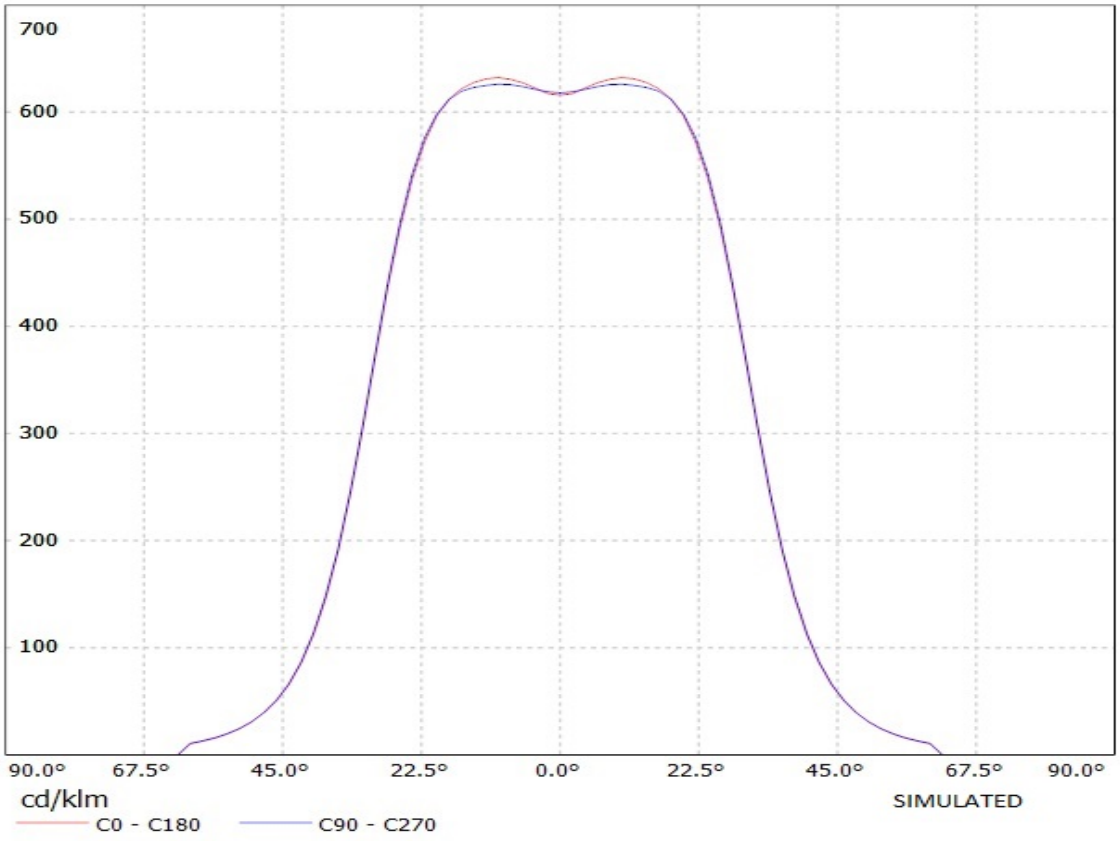
SIMULATED

Luminaire: Ledil Oy CA12059_Eva-W-XM-Tape CA12059_Eva-W-XM-Tape
Lamps: 1 x Cree XM-L white

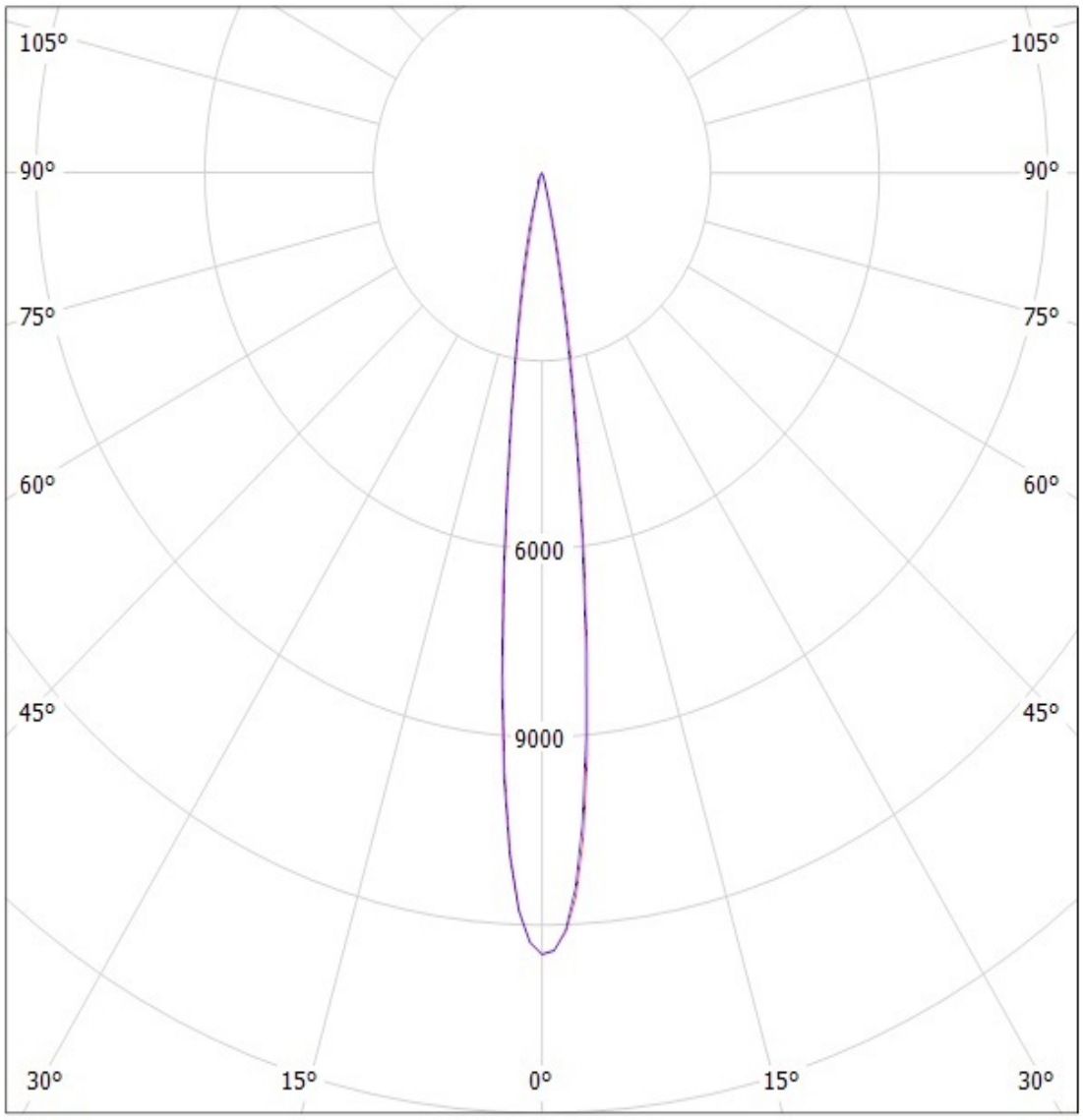


Ledil Oy C10909_CA12060_Eva-WW-XM-Tape C10909_CA12060_Eva-WW-XM-Tape / LDC (Linear)

Luminaire: Ledil Oy C10909_CA12060_Eva-WW-XM-Tape C10909_CA12060_Eva-WW-XM-Tape
Lamps: 1 x Cree XM-L



Luminaire: Ledil CA12055_Eva-S-XM-Tape CA12055_Eva-S-XM-Tape
Lamps: 1 x LED Module

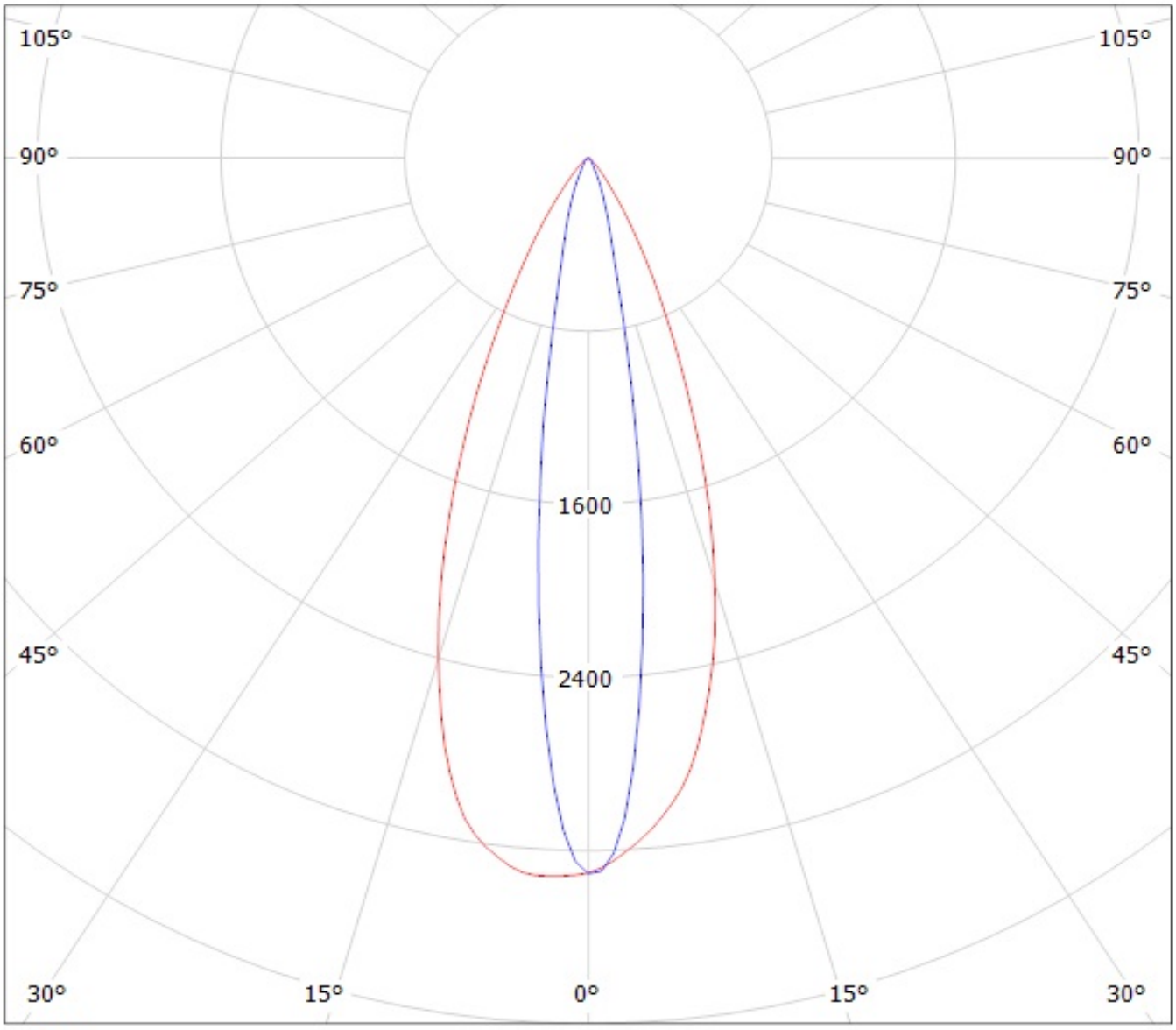


cd/klm

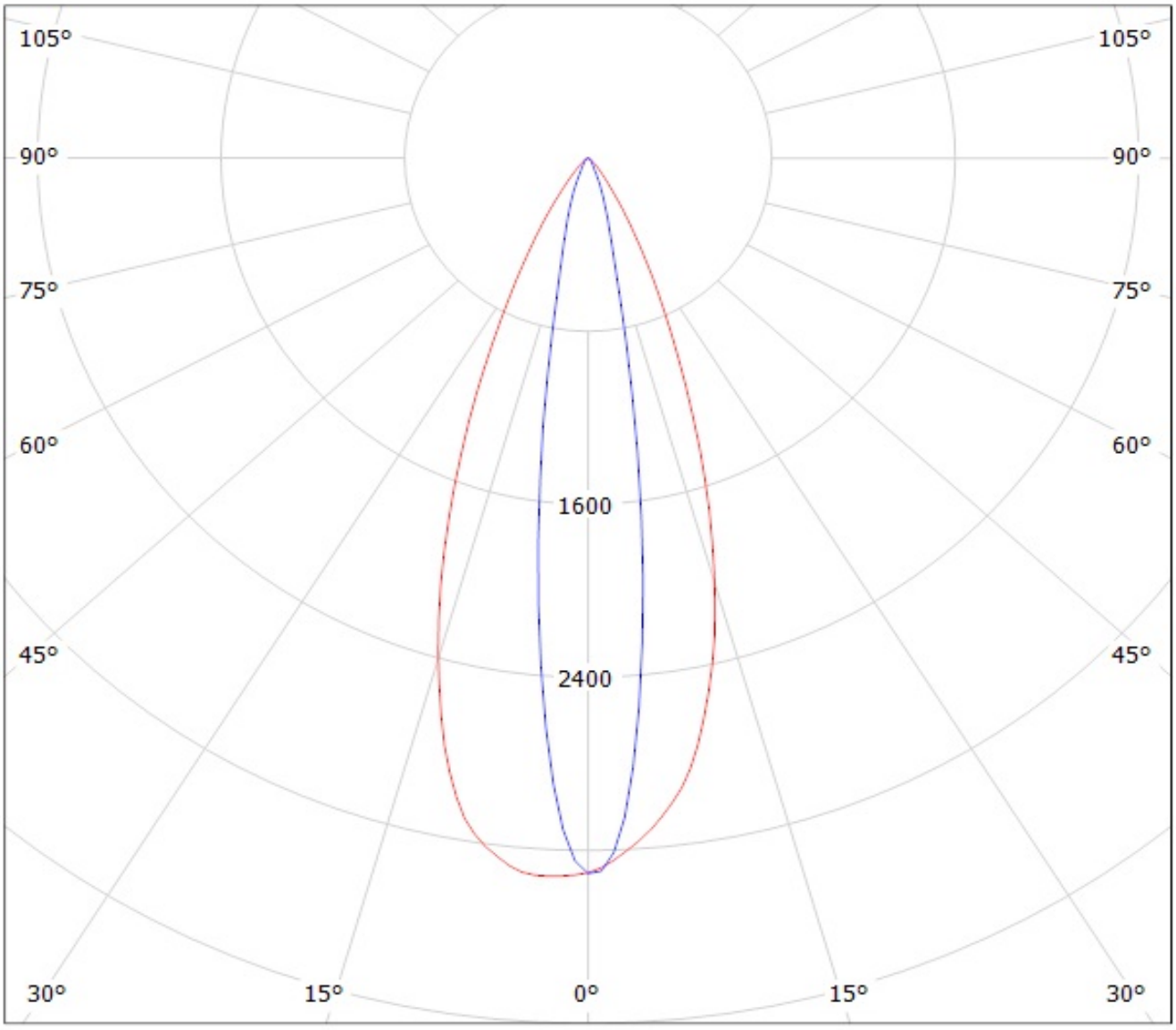
SIMULATED

C0 - C180 C90 - C270

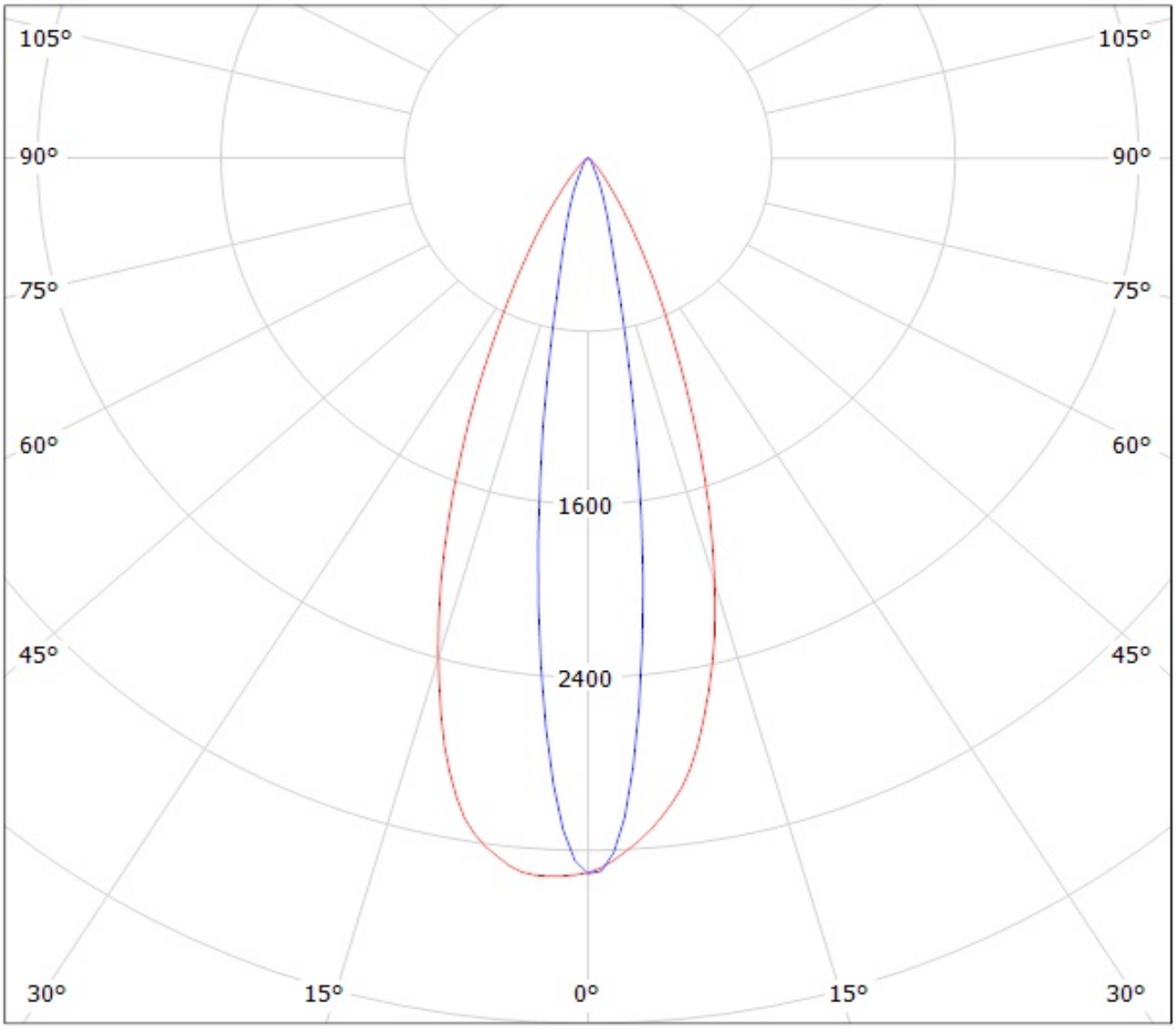
Luminaire: LEDIL OY C12828_EVA-O (XM-L) Efficiency=86%
Lamps: 1 x Cree XM-L (111lm @ 250mA)



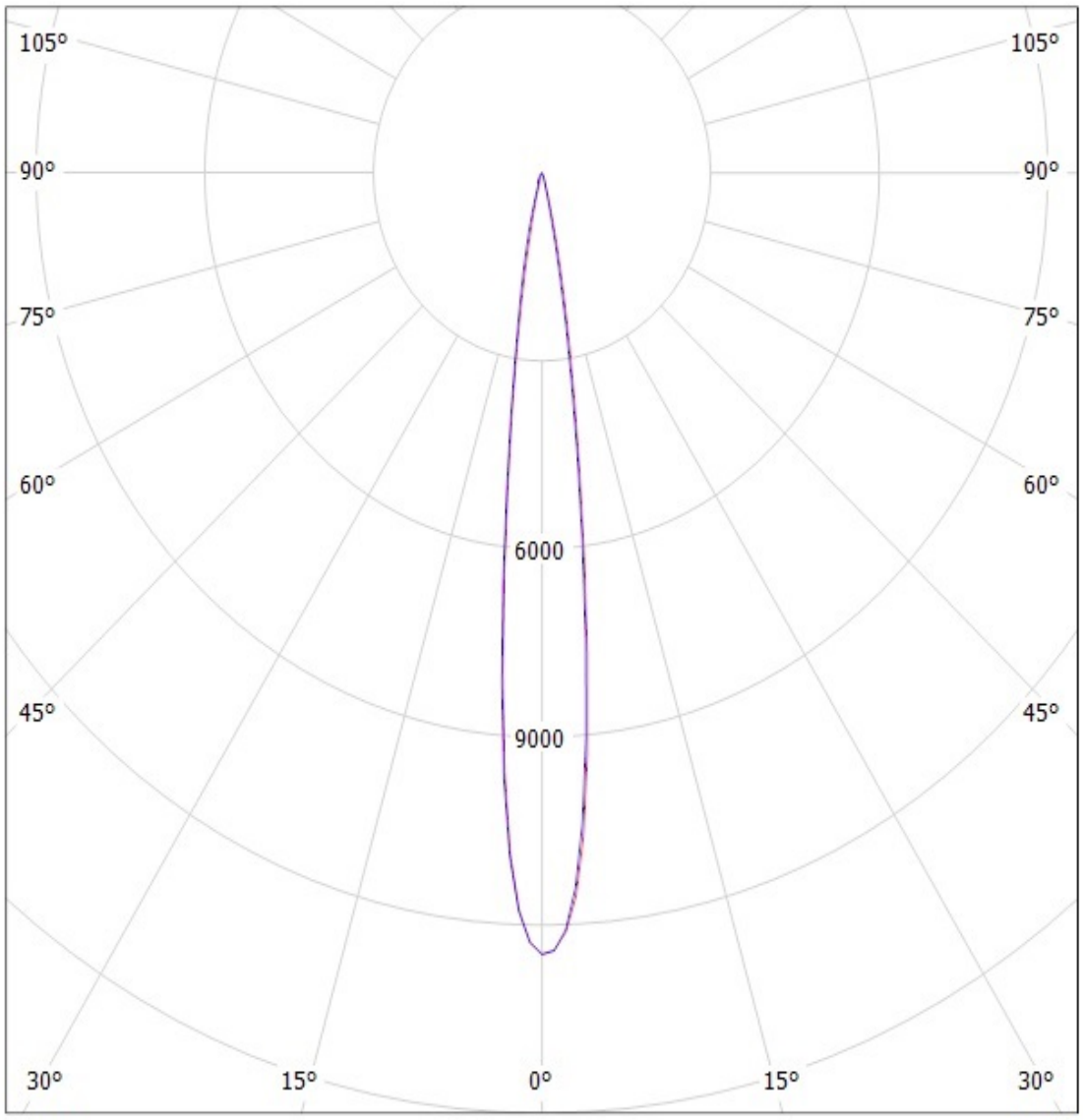
Luminaire: LEDIL OY CA12859_EVA-O / CP12860_EVA-O (XM-L) Efficiency=86%
Lamps: 1 x Cree XM-L (111lm @ 250mA)



Luminaire: LEDIL OY CA12859_EVA-O / CP12860_EVA-O (XM-L) Efficiency=86%
Lamps: 1 x Cree XM-L (111lm @ 250mA)



Luminaire: Ledil CA12055_Eva-S-XM-Tape CA12055_Eva-S-XM-Tape
Lamps: 1 x LED Module

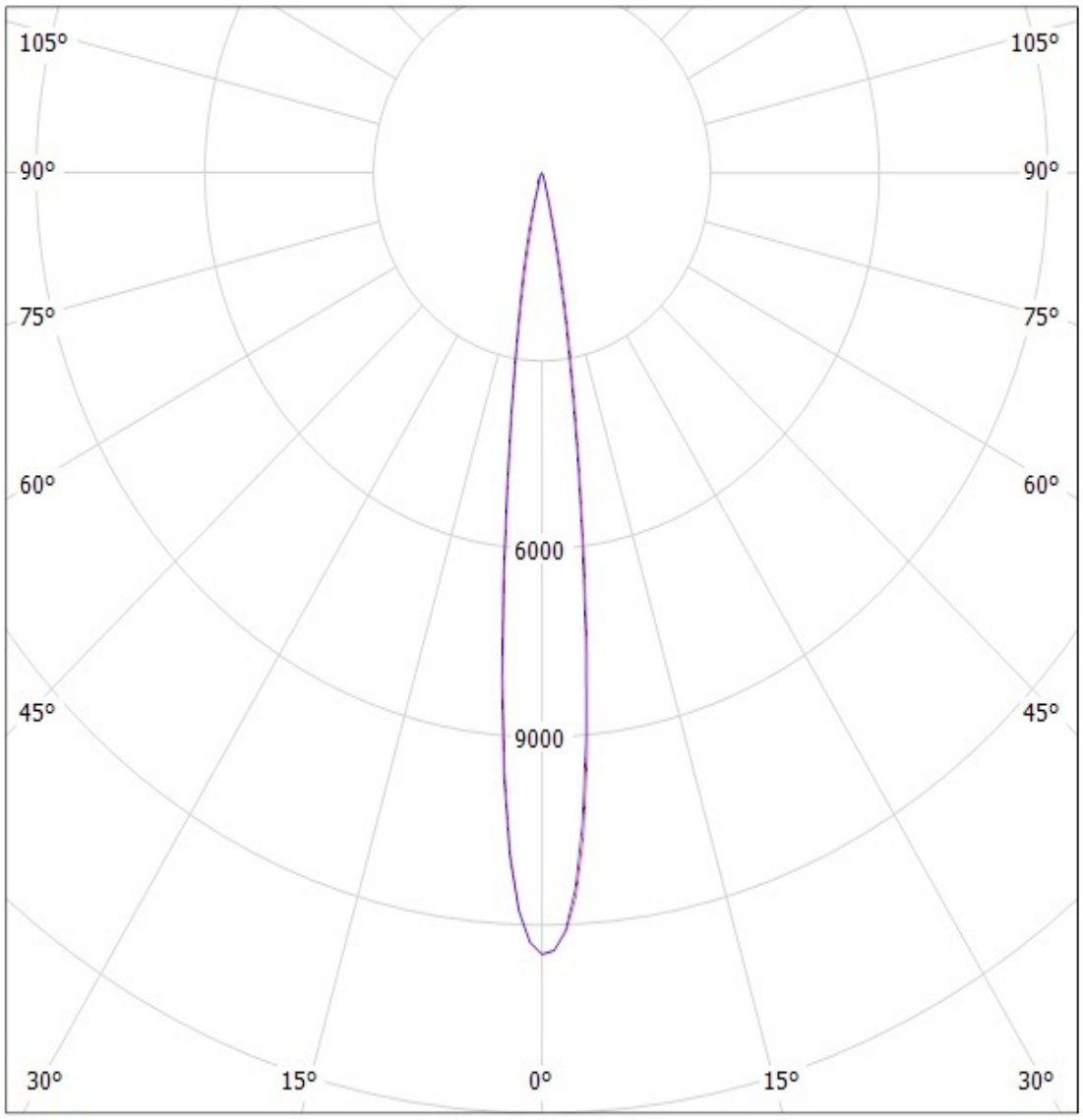


cd/klm

SIMULATED

C0 - C180 C90 - C270

Luminaire: Ledil CA12055_Eva-S-XM-Tape CA12055_Eva-S-XM-Tape
Lamps: 1 x LED Module

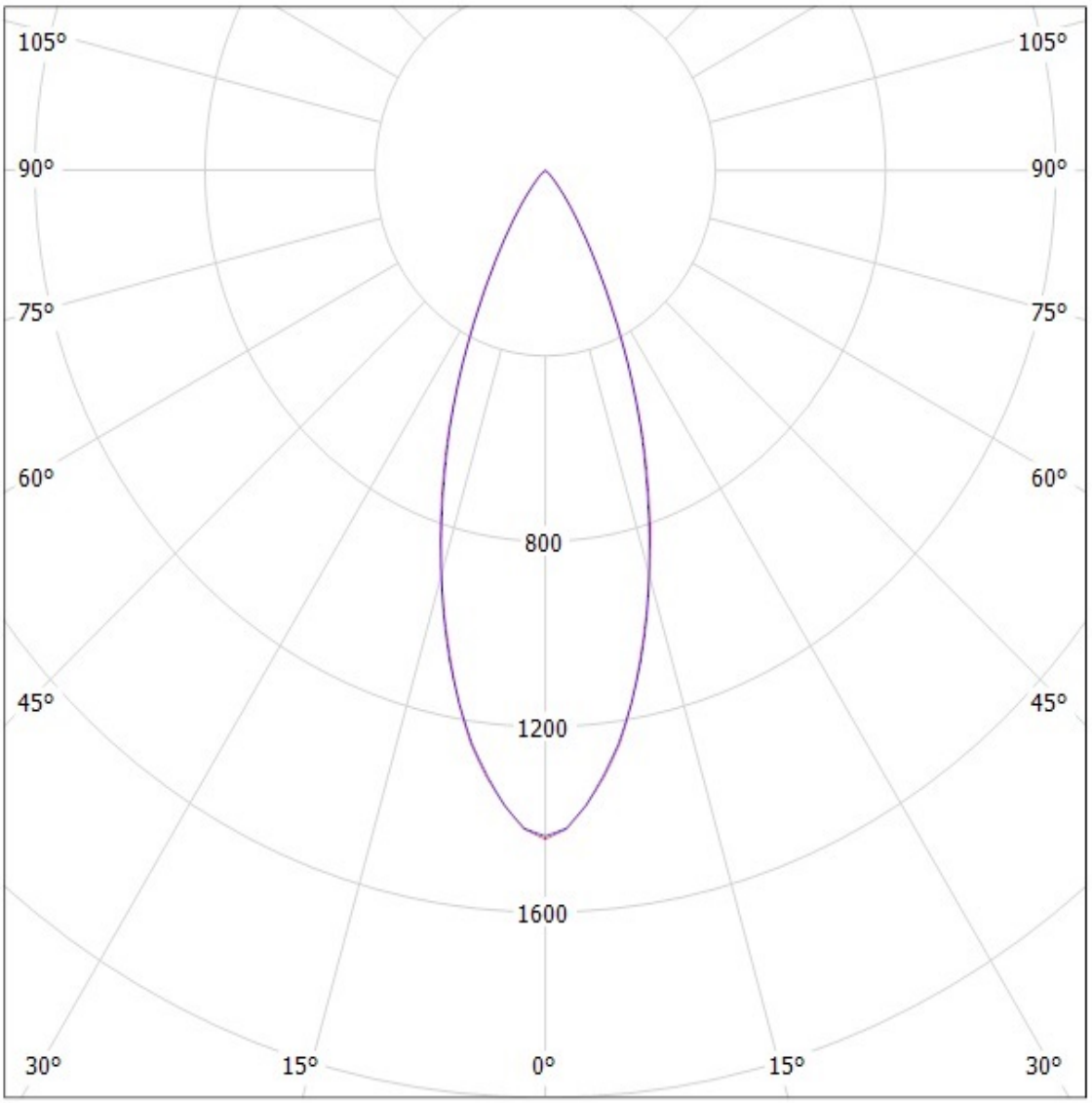


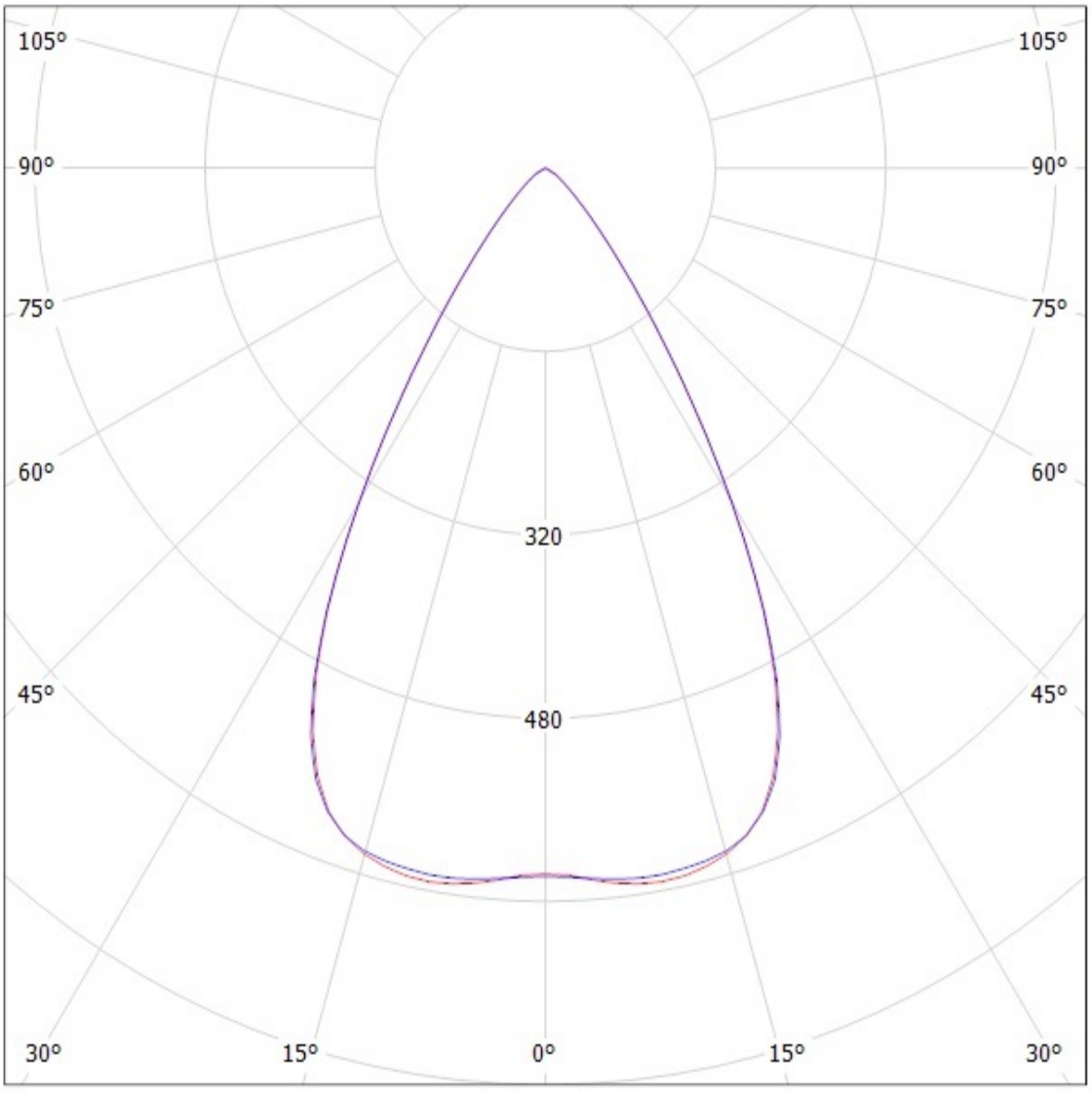
cd/klm

SIMULATED

C0 - C180 C90 - C270

Luminaire: Ledil Oy CA12059_Eva-W-XM-Tape CA12059_Eva-W-XM-Tape
Lamps: 1 x Cree XM-L white



Ledil Oy C10909_CA12060_Eva-WW-XM-Tape C10909_CA12060_Eva-WW-XM-Tape / LDC (Polar)

Luminaire: Ledil Oy C10909_CA12060_Eva-WW-XM-Tape C10909_CA12060_Eva-WW-XM-Tape
Lamps: 1 x Cree XM-L