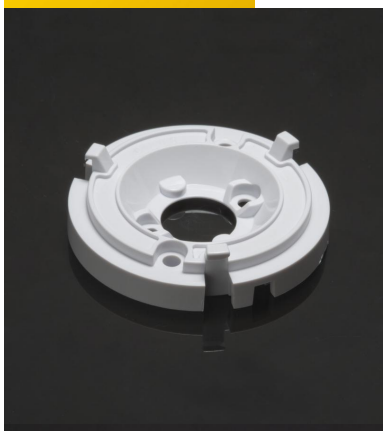
PRODUCT DATASHEET
Lena series
last update 25/6/2014



Product number **C12105_LENA-STD-BASE-CXA20**

Family	Lena	FWHM	N/A degrees
Type	Base part	Efficiency	-
LED	CXA2011	cd/lm	-
Color	White	Gerber File	Available
Diameter	58.69 mm		
Height	14.15 mm		
Style	Round		
Optic Material	-		
Holder Material	PC		
Fastening	["screw"]		
Status	Production ready		

Product number **C12948_LENA-WAS**

Family	Lena	FWHM	Asymmetric degrees
Type	Reflector	Efficiency	79 %
LED	CXA2011	cd/lm	1.000
Color	Metal	Gerber File	Available
Diameter	111 mm		
Height	37 mm		
Style	Round		
Optic Material	PC		
Holder Material	-		
Fastening	["glue"]		
Status	Production ready		

Product number **C12948_LENA-WAS**

Family	Lena	FWHM	Asymmetric degrees
Type	Reflector	Efficiency	75 %
LED	CXA2011	cd/lm	0.900
Color	Metal	Gerber File	Available
Diameter	111 mm		
Height	37 mm		
Style	Round		
Optic Material	PC		
Holder Material	-		
Fastening	["glue"]		
Status	Production ready		

Product number **C13101_LENA-X-WAS**

Family	Lena	FWHM	Asymmetric degrees
Type	Reflector	Efficiency	83 %
LED	CXA2011	cd/lm	0.500
Color	White	Gerber File	Available
Diameter	111 mm		
Height	37 mm		
Style	Round		
Optic Material	HRPC		
Holder Material	-		
Fastening	["glue"]		
Status	Production ready		

Ledil Oy
Salorankatu 10
24240 SALO
Finland

http://www.ledil.com
email: ledil@ledil.com
FAX: +358-2-733 8001

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PRODUCT DATASHEET
Lena series
last update 25/6/2014

Product number **C13101_LENA-X-WAS**

Family	Lena	FWHM	Asymmetric degrees
Type	Reflector	Efficiency	80 %
LED	CXA2011	cd/lm	0.500
Color	White	Gerber File	Available
Diameter	111 mm		
Height	37 mm		
Style	Round		
Optic Material	HRPC		
Holder Material	-		
Fastening	["glue"]		
Status	Production ready		

Product number **CN13159_LENA-WAS**

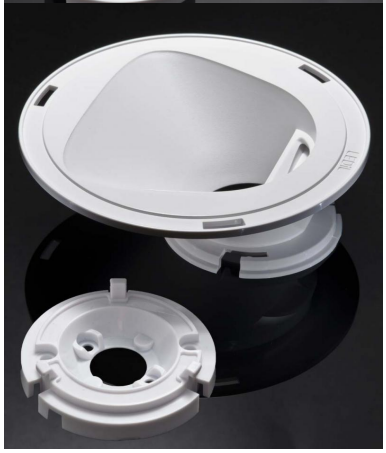
Family	Lena	FWHM	Asymmetric degrees
Type	RefPack	Efficiency	79 %
LED	CXA2011	cd/lm	1.000
Color	Metal	Gerber File	Available
Diameter	111 mm		
Height	49.6 mm		
Style	Round		
Optic Material	-		
Holder Material	-		
Fastening	["screw", "socket"]		
Status	Production ready		

Reflector twist-and-locks into included base part that holds COB in place. Base part is attached into heat sink with screws.

Product number **CN13169_LENA-WAS-DL**

Family	Lena	FWHM	Asymmetric degrees
Type	RefPack	Efficiency	75 %
LED	CXA2011	cd/lm	0.900
Color	Metal	Gerber File	Available
Diameter	111 mm		
Height	41.7 mm		
Style	Round		
Optic Material	PC		
Holder Material	-		
Fastening	["screw", "socket"]		
Status	Production ready		

Reflector twist-and-locks into included base part that holds COB in place. Base part is attached into heat sink with screws.



Product number **CN13455_LENA-X-WAS**

Family	Lena	FWHM	Asymmetric degrees
Type	RefPack	Efficiency	83 %
LED	CXA2011	cd/lm	0.500
Color	White	Gerber File	Available
Diameter	111 mm		
Height	38.2 mm		
Style	Round		
Optic Material	-		
Holder Material	-		
Fastening	["screw", "socket"]		
Status	Production ready		

Reflector twist-and-locks into included base part that holds COB in place. Base part is attached into heat sink with screws.

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24240 SALO
Finland

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email: ledil@ledil.com
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PRODUCT DATASHEET
Lena series
last update 25/6/2014

Product number **CN13456_LENA-X-WAS-DL**

Family	Lena	FWHM	Asymmetric degrees
Type	RefPack	Efficiency	80 %
LED	CXA2011	cd/lm	0.500
Color	White	Gerber File	Available
Diameter	111 mm		
Height	40.3 mm		
Style	Round		
Optic Material	HRPC		
Holder Material	-		
Fastening	["screw", "socket"]		
Status	Production ready		

Reflector twist-and-locks into included base part that holds COB in place. Base part is attached into heat sink with screws.

Product number **C11979_LENA-S**

Family	Lena	FWHM	11 degrees
Type	Reflector	Efficiency	80 %
LED	CXA2011	cd/lm	-
Color	Metal	Gerber File	Available
Diameter	111 mm		
Height	80 mm		
Style	Round		
Optic Material	PC		
Holder Material	-		
Fastening	""		
Status	Production ready		

Product number **CN12107_LENA-S-DL**

Family	Lena	FWHM	11 degrees
Type	RefPack	Efficiency	80 %
LED	CXA2011	cd/lm	-
Color	Metal	Gerber File	Available
Diameter	111 mm		
Height	88.6 mm		
Style	Round		
Optic Material	PC		
Holder Material	-		
Fastening	["screw"]		
Status	Production ready		

Product number **C12154_LENA-M**

Family	Lena	FWHM	19 degrees
Type	Reflector	Efficiency	78 %
LED	CXA2011	cd/lm	4.100
Color	Metal	Gerber File	Available
Diameter	111 mm		
Height	80 mm		
Style	Round		
Optic Material	PC		
Holder Material	-		
Fastening	""		
Status	Production ready		

Ledil Oy
Salorankatu 10
24240 SALO
Finland

http://www.ledil.com
email: ledil@ledil.com
FAX: +358-2-733 8001

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PRODUCT DATASHEET
Lena series
last update 25/6/2014

Product number **CN12167_LENA-M-DL**

Family	Lena	FWHM	19 degrees
Type	RefPack	Efficiency	78 %
LED	CXA2011	cd/lm	4.100
Color	Metal	Gerber File	Available
Diameter	111 mm		
Height	88.6 mm		
Style	Round		
Optic Material	PC		
Holder Material	-		
Fastening	["screw"]		
Status	Production ready		

Product number **C11980_LENA-W**

Family	Lena	FWHM	42 degrees
Type	Reflector	Efficiency	75 %
LED	CXA2011	cd/lm	-
Color	Metal	Gerber File	Available
Diameter	111 mm		
Height	80 mm		
Style	Round		
Optic Material	PC		
Holder Material	-		
Fastening	""		
Status	Production ready		

Product number **CN12109_LENA-W-DL**

Family	Lena	FWHM	42 degrees
Type	RefPack	Efficiency	75 %
LED	CXA2011	cd/lm	-
Color	Metal	Gerber File	Available
Diameter	111 mm		
Height	88.6 mm		
Style	Round		
Optic Material	PC		
Holder Material	-		
Fastening	["screw"]		
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.

Ledil Oy
Salorankatu 10
24240 SALO
Finland

http://www.ledil.com
email: ledil@ledil.com
FAX: +358-2-733 8001

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GENERAL INFORMATION

- Product series especially designed & optimized for CXA2011 series of LEDs.
- Special care taken to make light distribution as uniform as possible.
- Reflector is made of aluminium coated PC (120 degrees of Celcius / 248 degrees of Fahrenheit) with protective lacquer (short term 100 degrees of Celcius / 212 degrees of Fahrenheit).
- Optic holder molded by high quality PC material (120 dergees of Celcius / 248 degrees of Fahrenheit).

Note! Due to use of high power COB's with this product, special attention to proper thermal design is highly recommended. LEDiL has no liability for direct, indirect or consecutive damages arising from the LEDiL products being used outside of the recommended temperature range.

Ledil Oy
Salorankatu 10
24240 SALO
Finland

http://www.ledil.com
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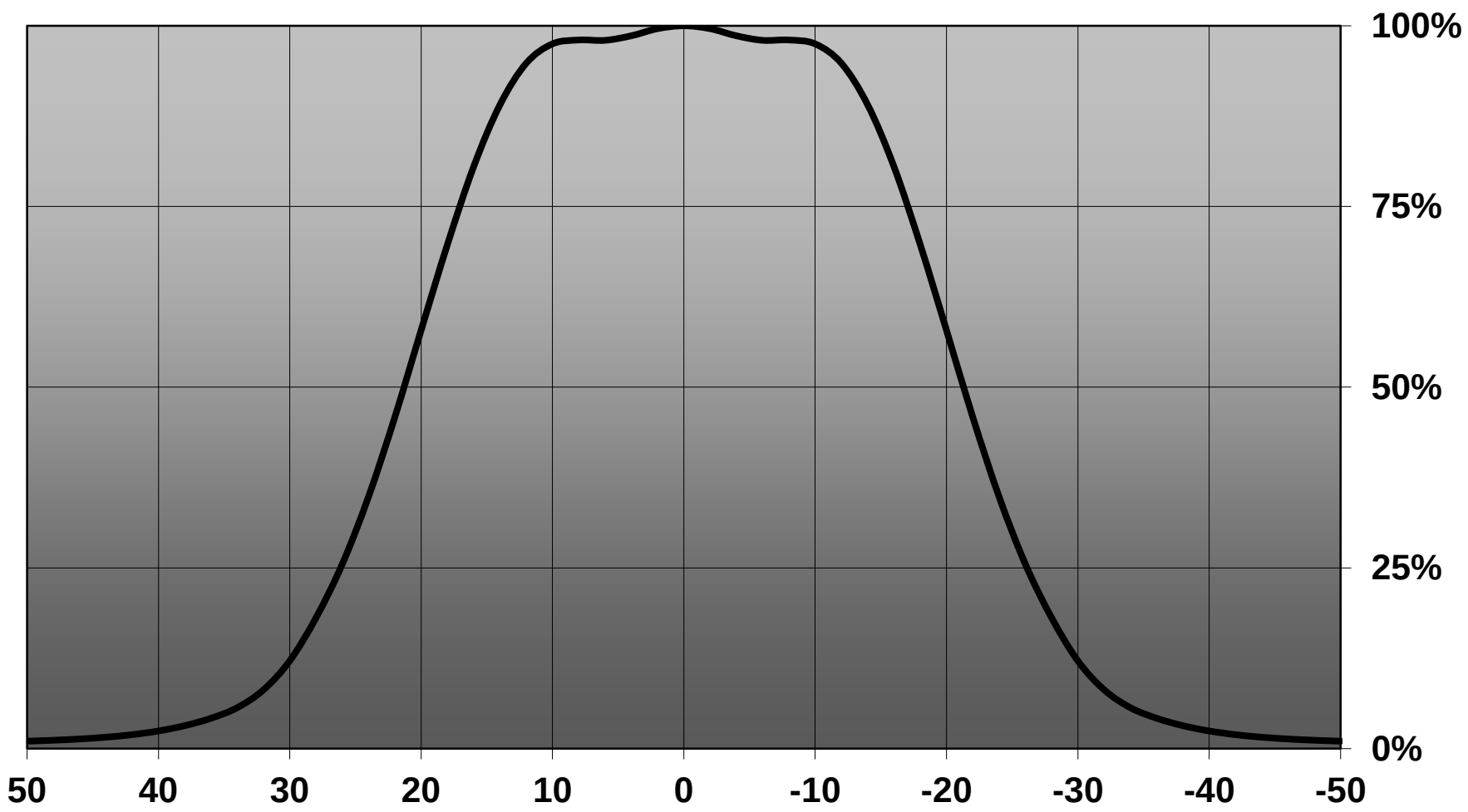
Relative intensity of CA12109_Lena-W-Diffuser-Lens_CXA20



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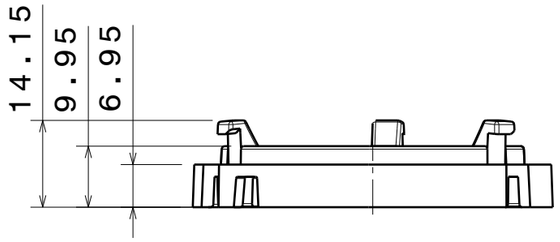
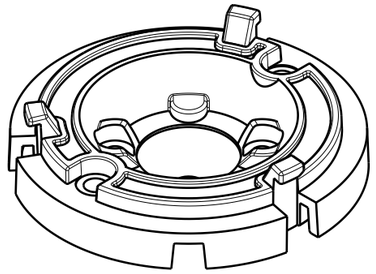
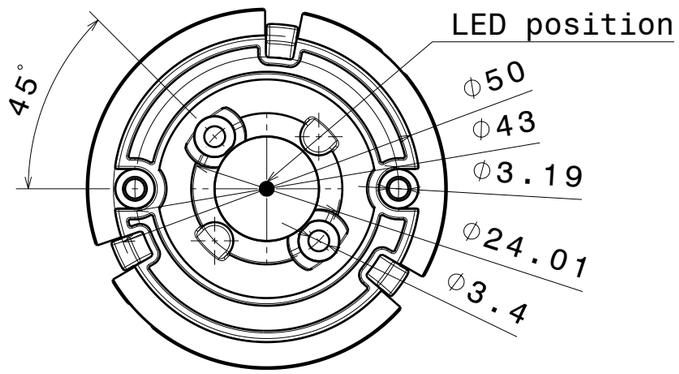


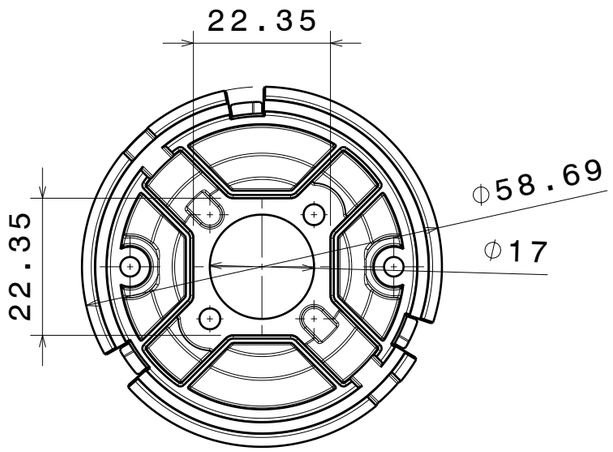
Front view



Isometric view



Top view



Bottom view

INDEX	PART NO	DESCRIPTION	MATERIAL	COLOUR
1	C12105	LENA-STD-BASE-CXA20	PC	white

Tolerances if not otherwise shown
According to DIN ISO 2768-1
Linear measures: class C
According to DIN ISO 2768-2
Form and position: class L

THIRD ANGLE PROJECTION:

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DRAWING TITLE
C12105_LENA-STD-BASE-CXA20

SIZE A3

PART NUMBER
C12105

SCALE 1:1 | WEIGHT 11,93 g | SHEET 1/1

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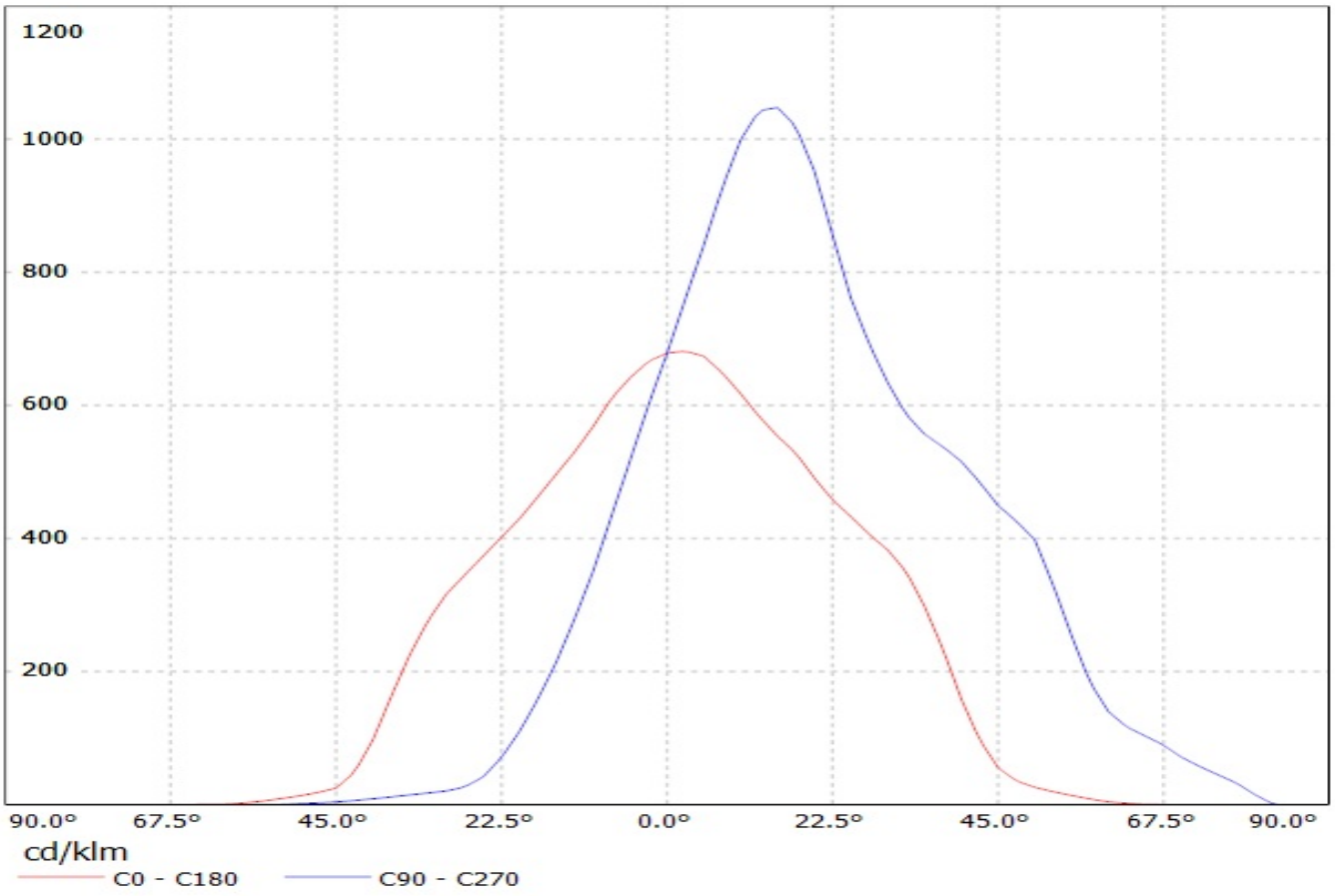
Luminaire: Ledil Oy CN13159_LENA-WAS (Cree CXA20 698lm @ 250mA) Efficiency=79%
Lamps: 1 x Cree CXA20 698lm @ 250mA



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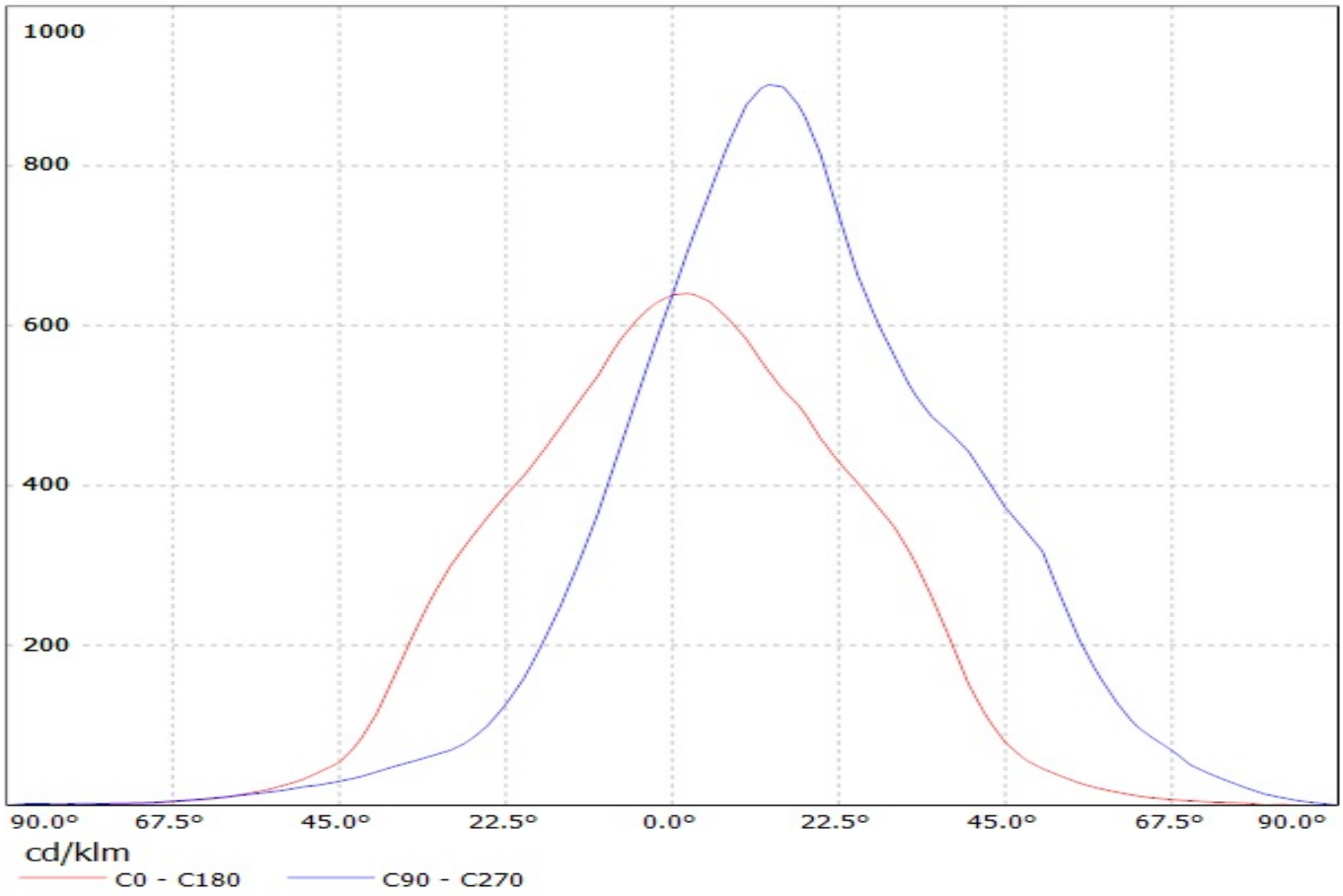
Luminaire: Ledil Oy CN13169_LENA-WAS-DL (Cree CXA20 698lm @ 250mA) Efficiency=75%
Lamps: 1 x Cree CXA20 698lm @ 250mA



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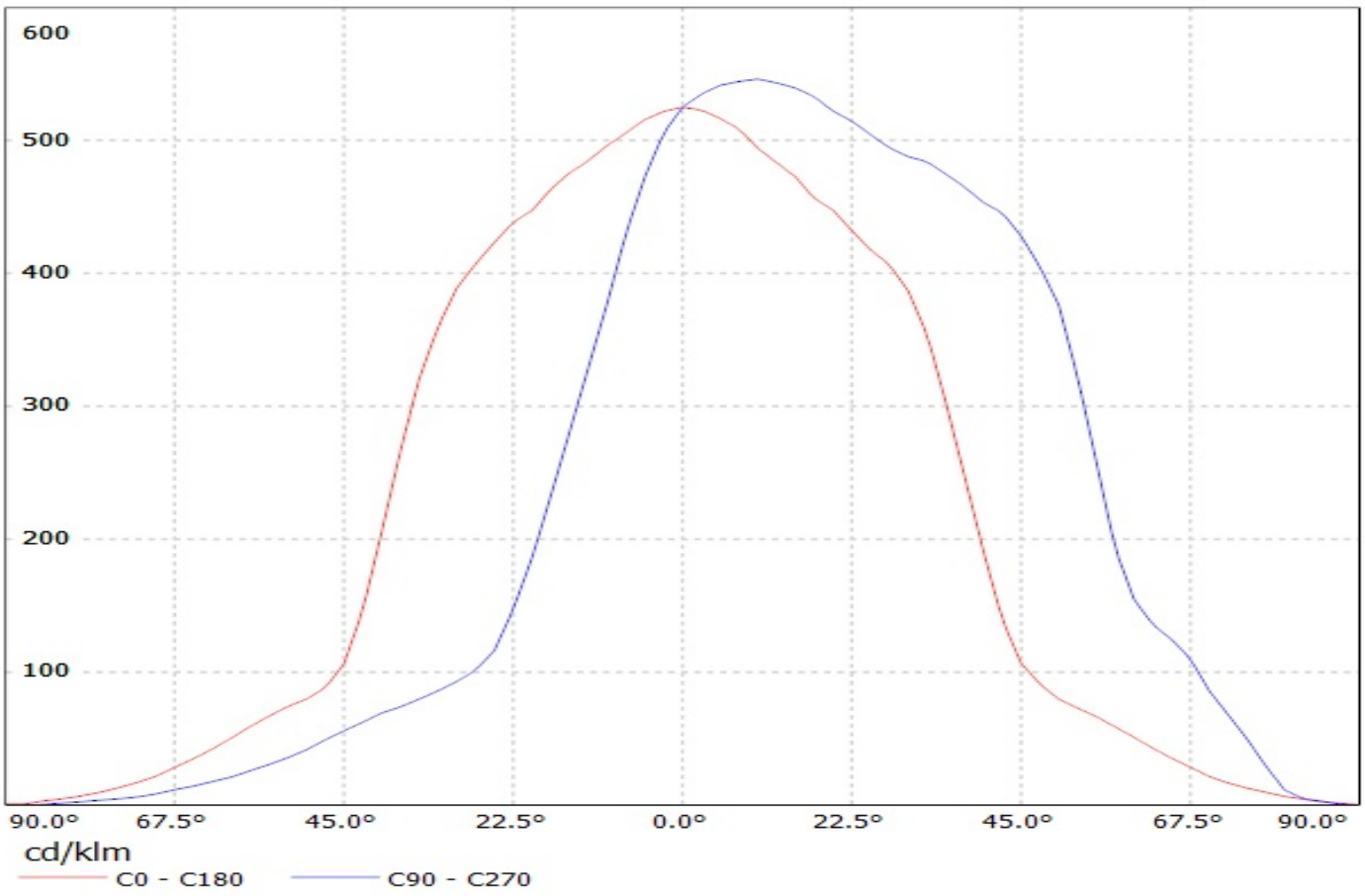
Luminaire: Ledil Oy CN13455_LENA-X-WAS (Cree CXA20 698lm @ 250mA) Efficiency=83%
Lamps: 1 x Cree CXA20 698lm @ 250mA



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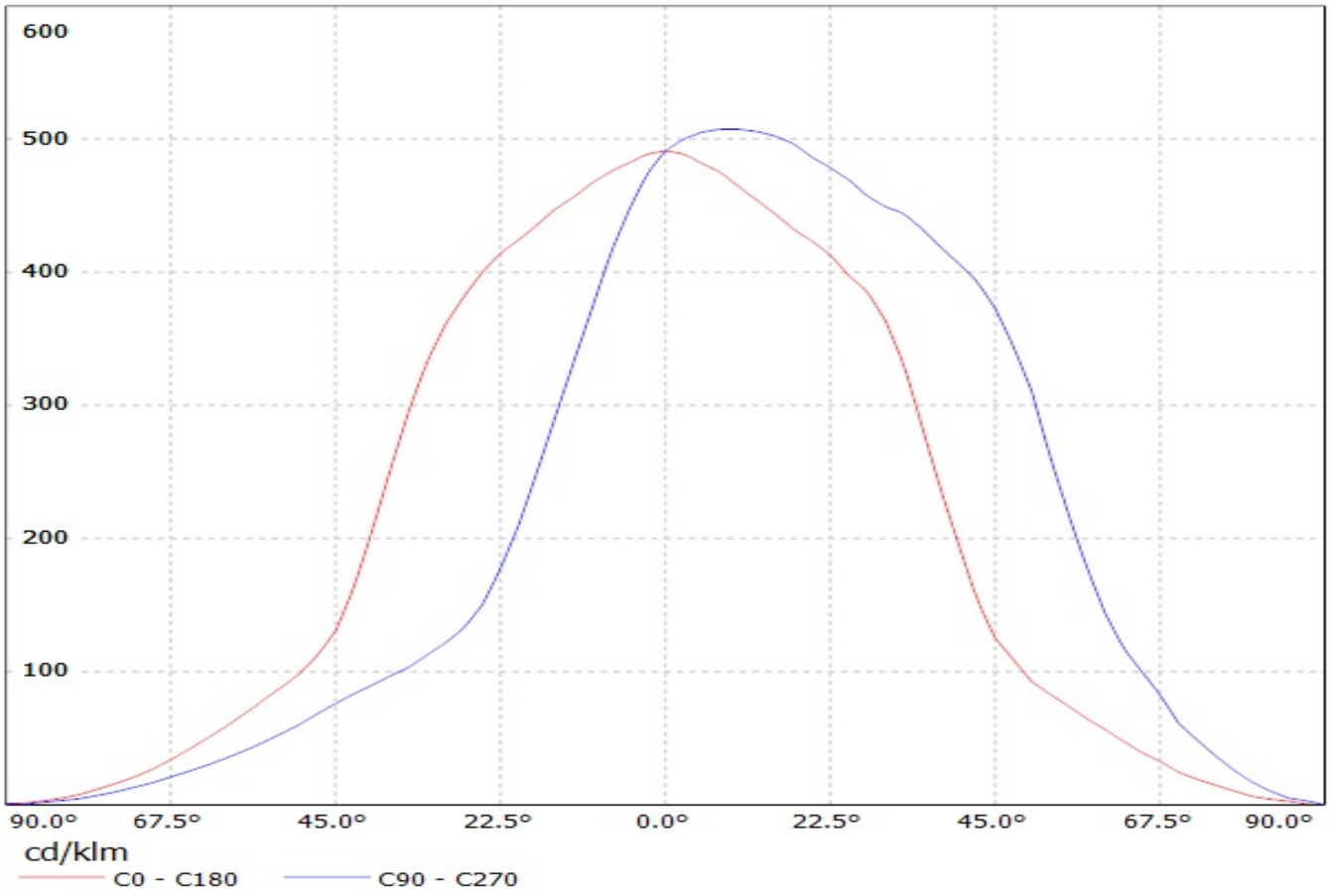
Luminaire: Ledil Oy CN13456_LENA-X-WAS-DL (Cree CXA20 698lm @ 250mA) Efficiency=80%
Lamps: 1 x Cree CXA20 698lm @ 250mA



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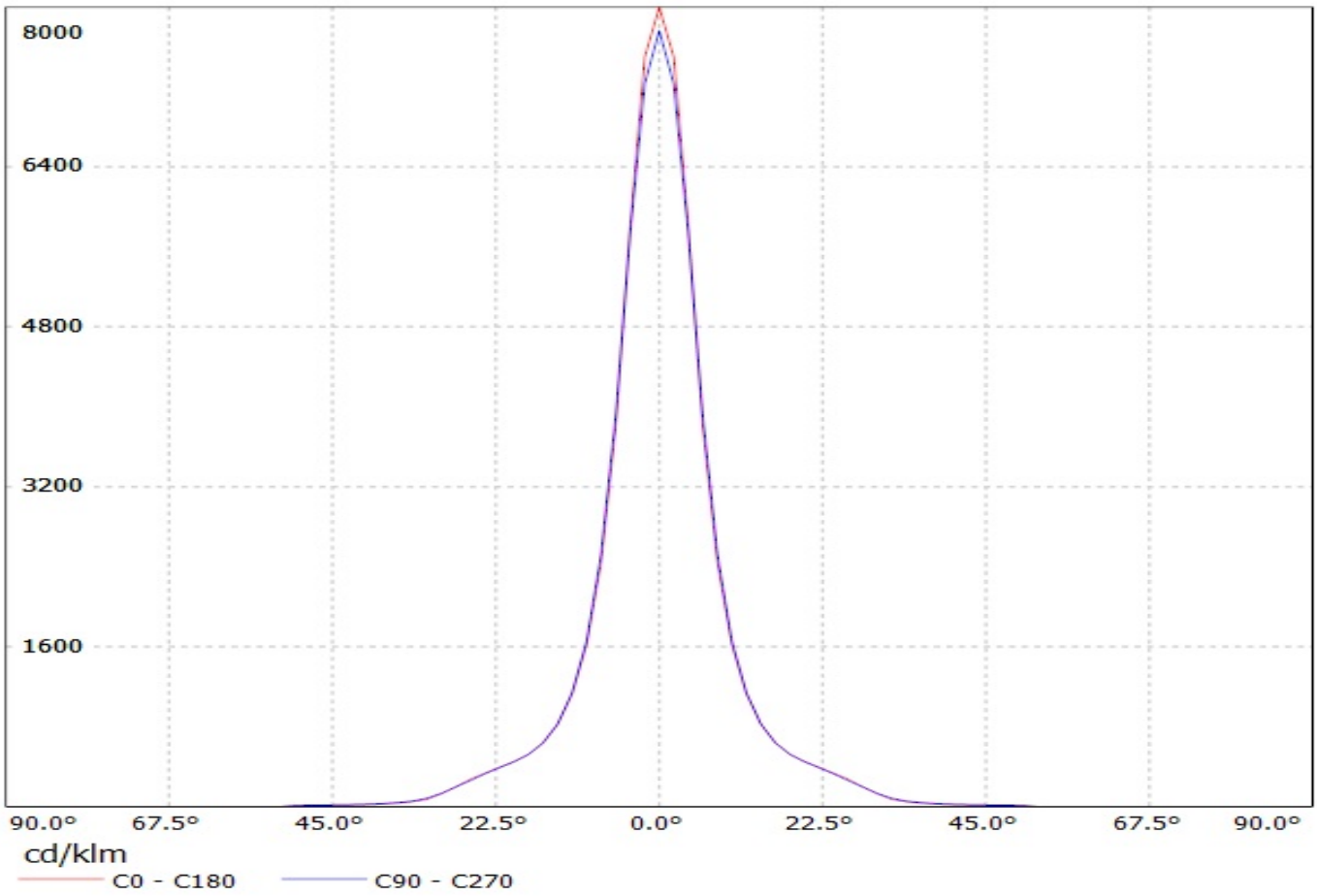
Luminaire: Ledil Oy CA12107_Lena-S-Diffuser-Lens_CXA20 CA12107_Lena-S-Diffuser-Lens_CXA20
Lamps: 1 x Cree-CXA20



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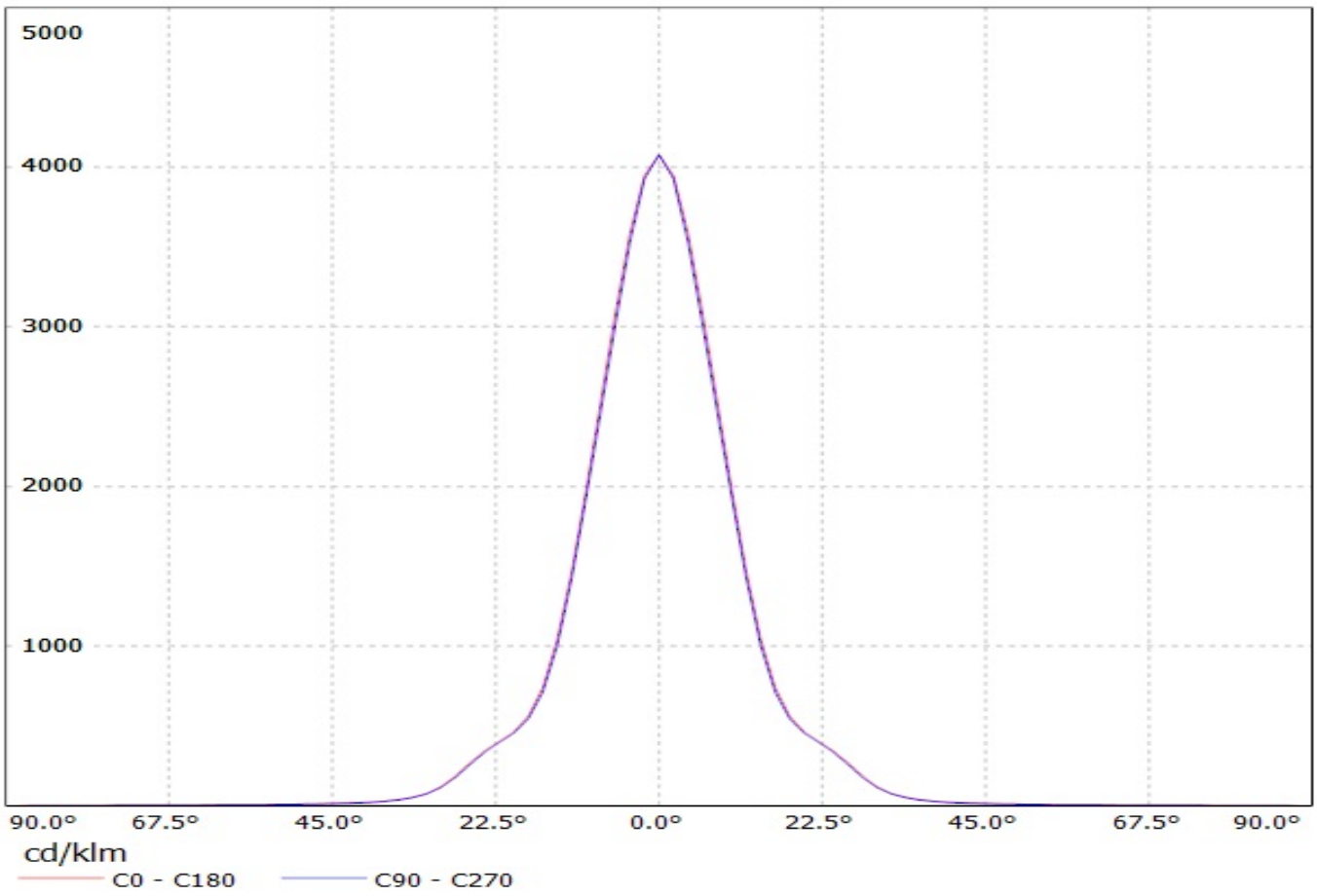
Luminaire: Ledil Oy CA12167_Lena-M-Diffuser-Lens_CXA20 CA12167_Lena-M-Diffuser-Lens_CXA20
Lamps: 1 x Cree CXA20 250mA 819lm



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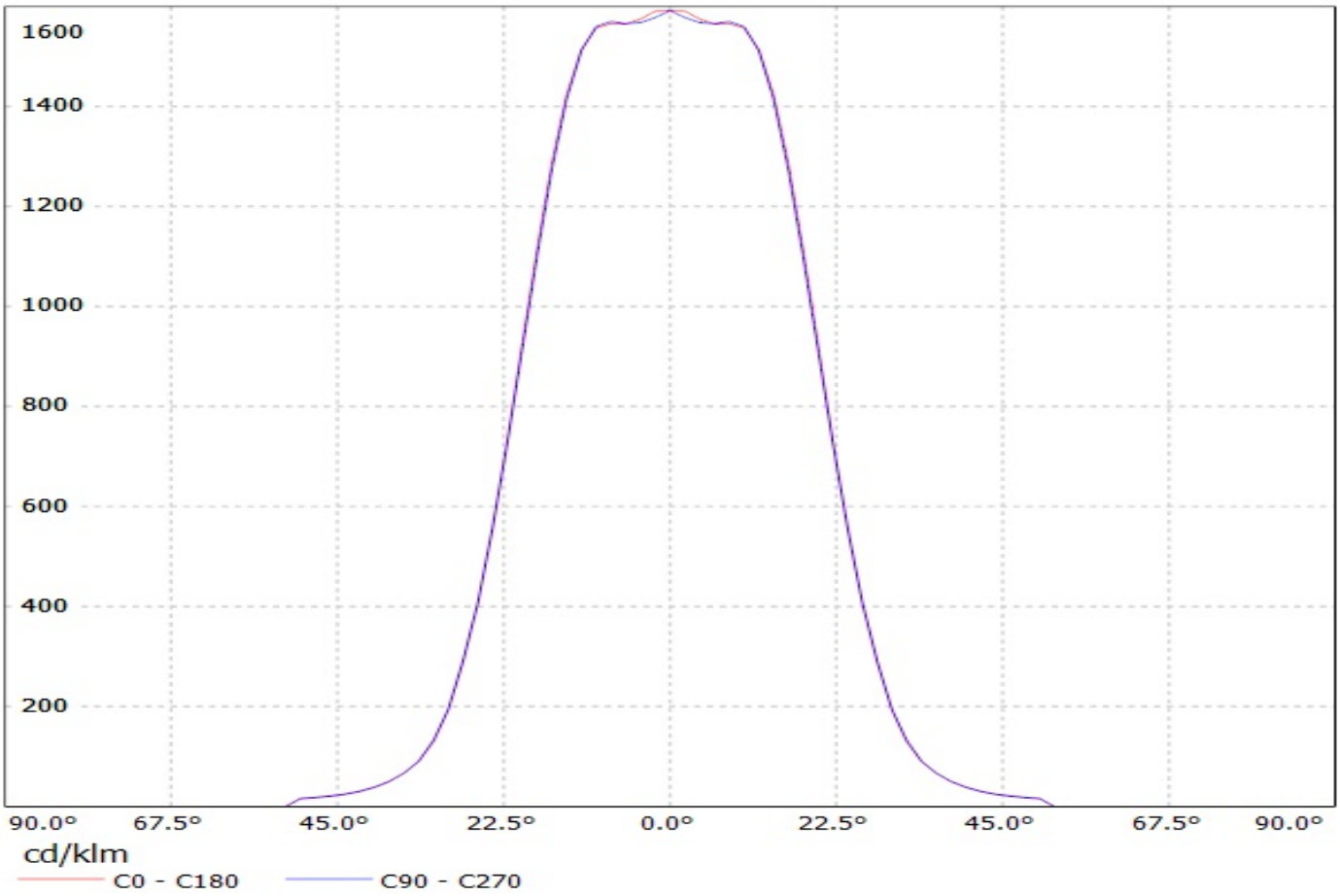
Luminaire: Ledil Oy CA12109_Lena-W-Diffuser-Lens_CXA20 CA12109_Lena-W-Diffuser-Lens_CXA20
Lamps: 1 x Cree CXA20



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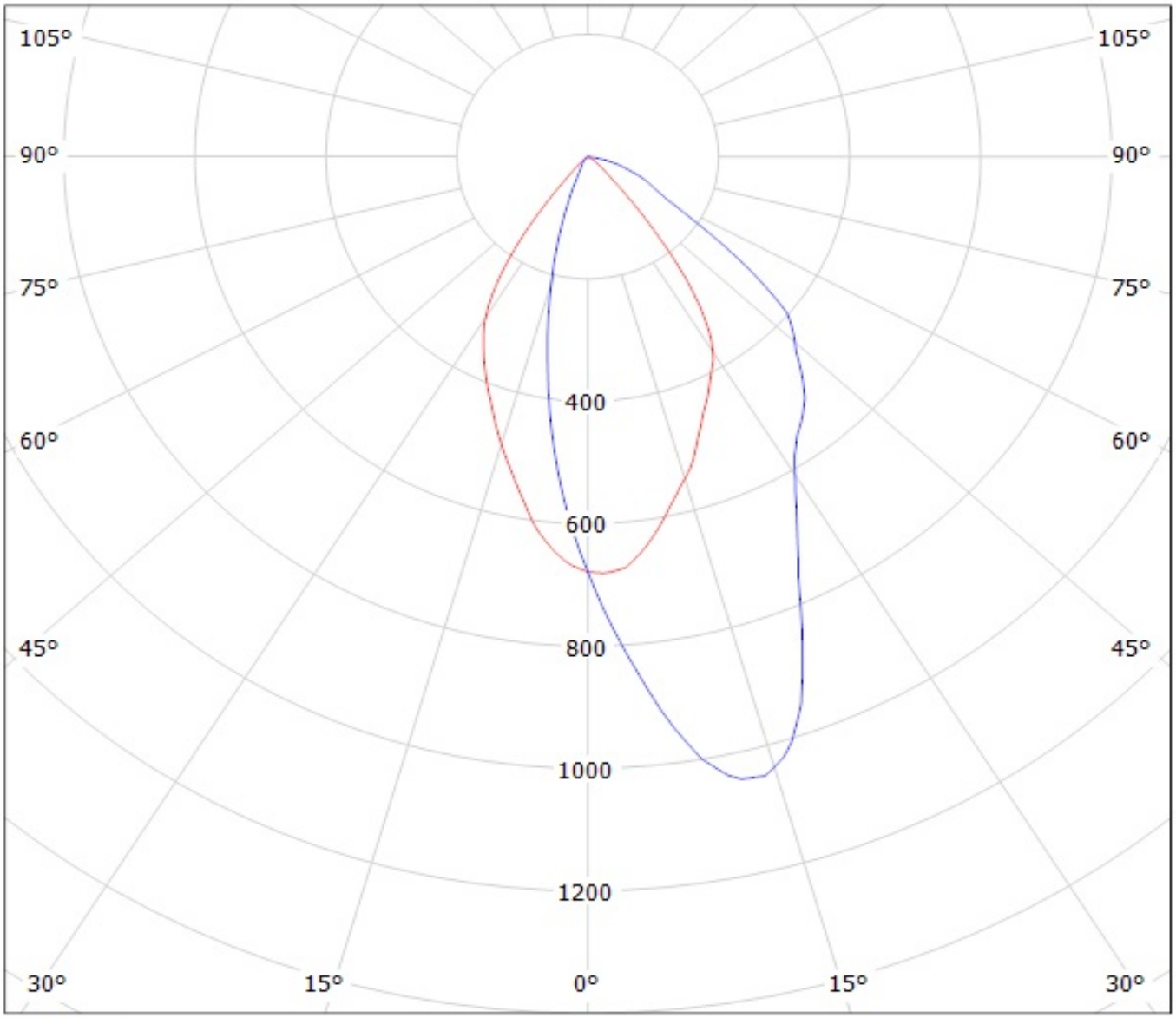
Luminaire: Ledil Oy CN13159_LENA-WAS (Cree CXA20 698lm @ 250mA) Efficiency=79%
Lamps: 1 x Cree CXA20 698lm @ 250mA



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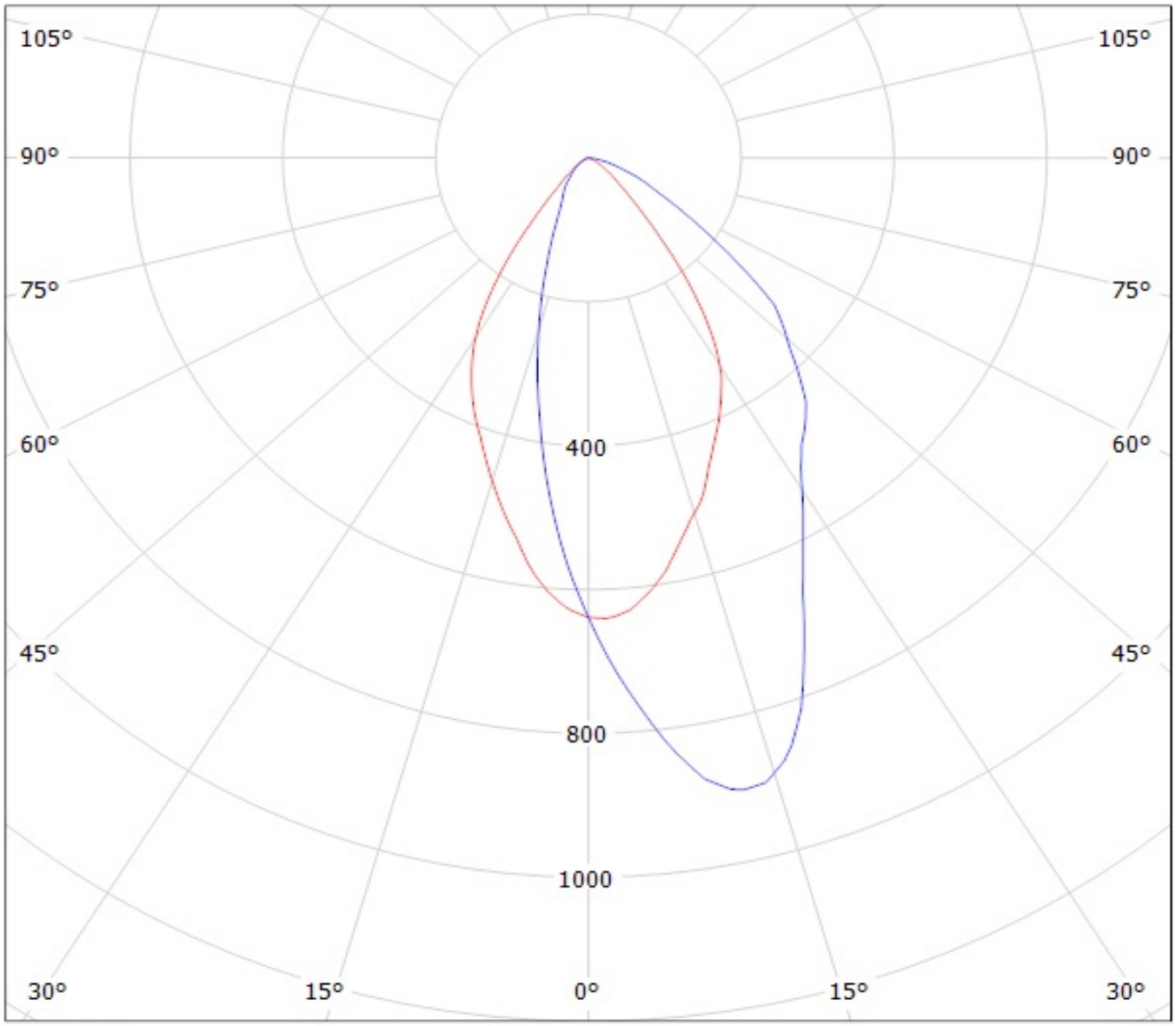
Luminaire: Ledil Oy CN13169_LENA-WAS-DL (Cree CXA20 698lm @ 250mA) Efficiency=75%
Lamps: 1 x Cree CXA20 698lm @ 250mA



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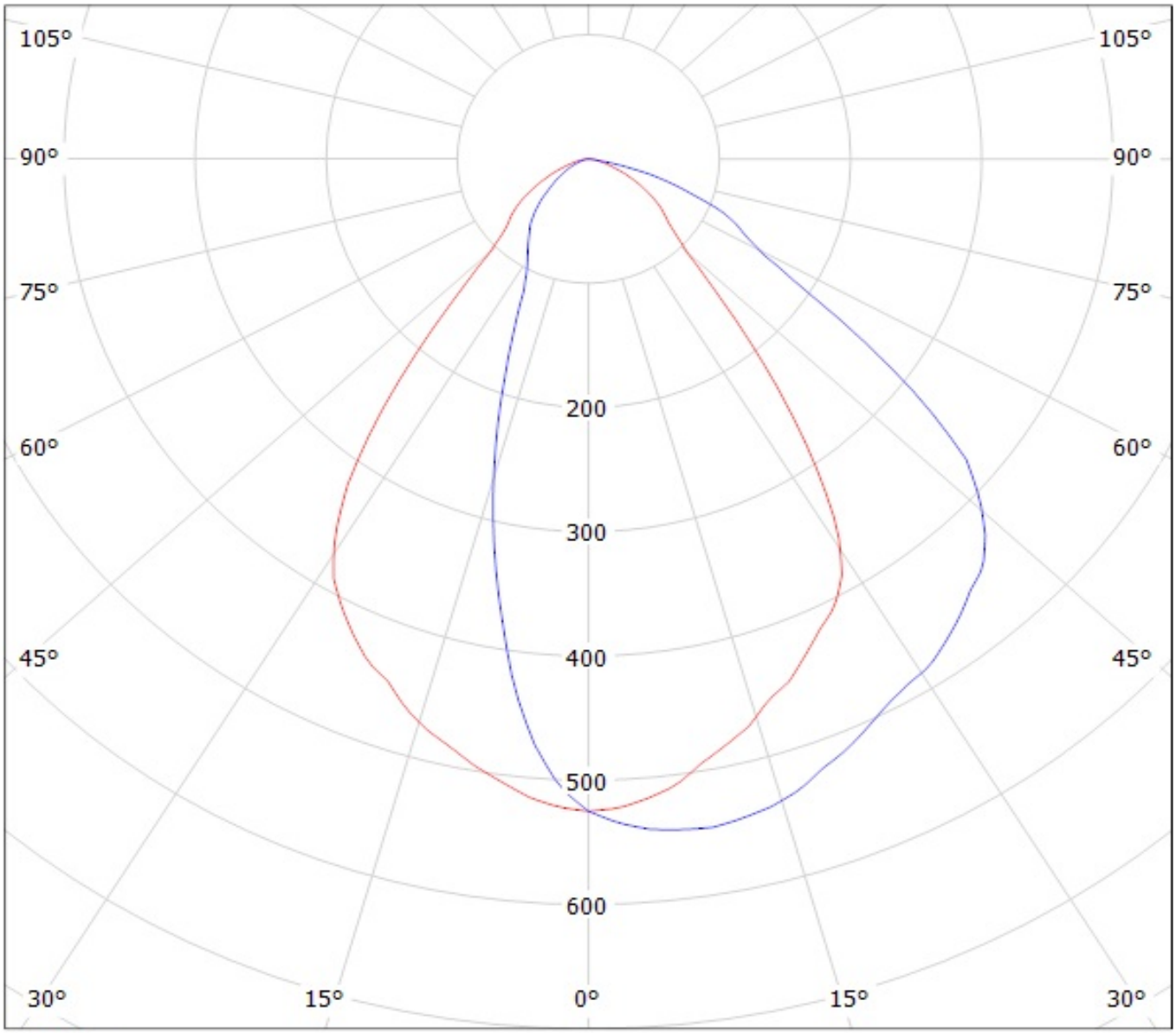
Luminaire: Ledil Oy CN13455_LENA-X-WAS (Cree CXA20 698lm @ 250mA) Efficiency=83%
Lamps: 1 x Cree CXA20 698lm @ 250mA



cd/klm

C0 - C180 C90 - C270

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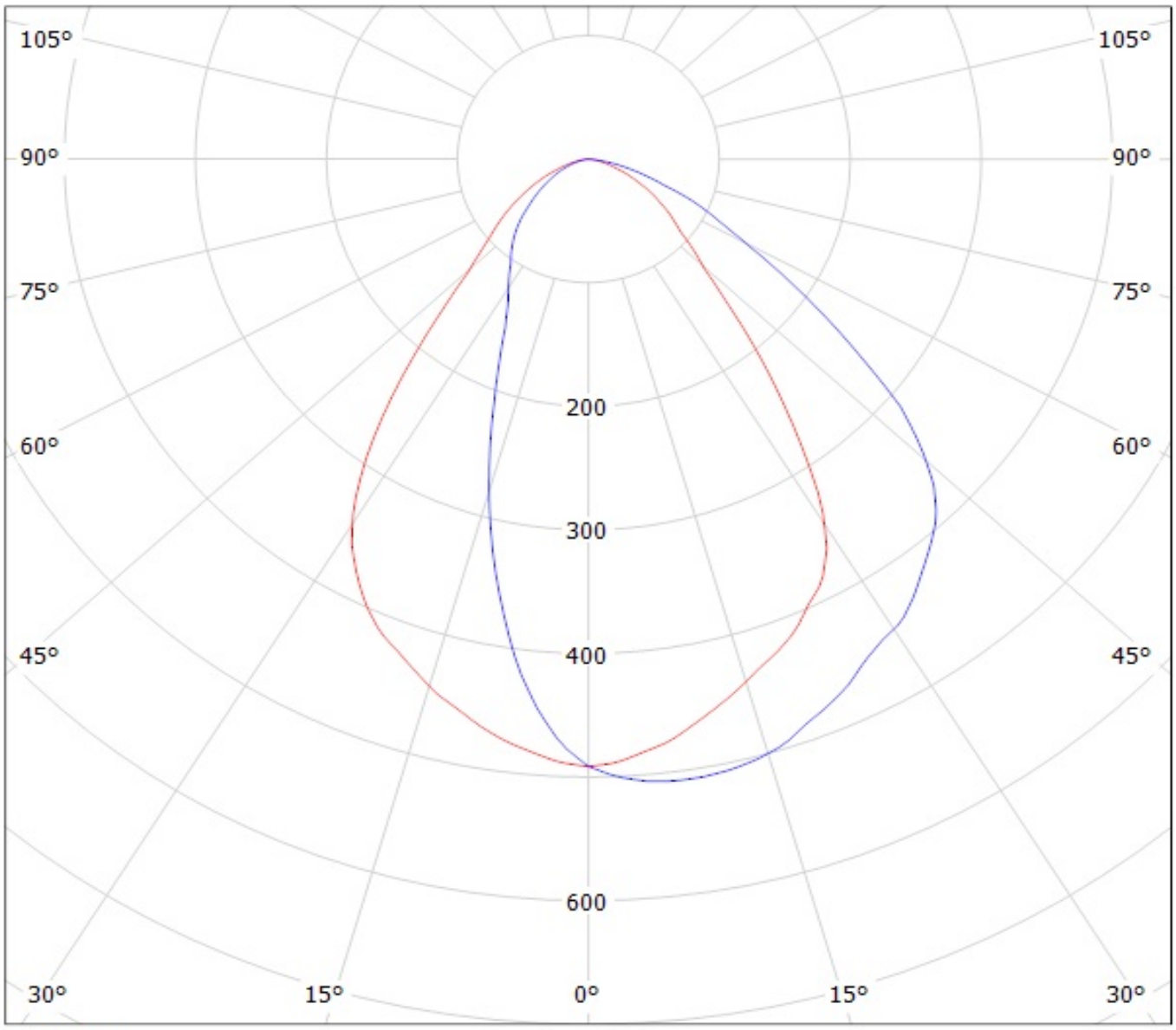
Luminaire: Ledil Oy CN13456_LENA-X-WAS-DL (Cree CXA20 698lm @ 250mA) Efficiency=80%
Lamps: 1 x Cree CXA20 698lm @ 250mA



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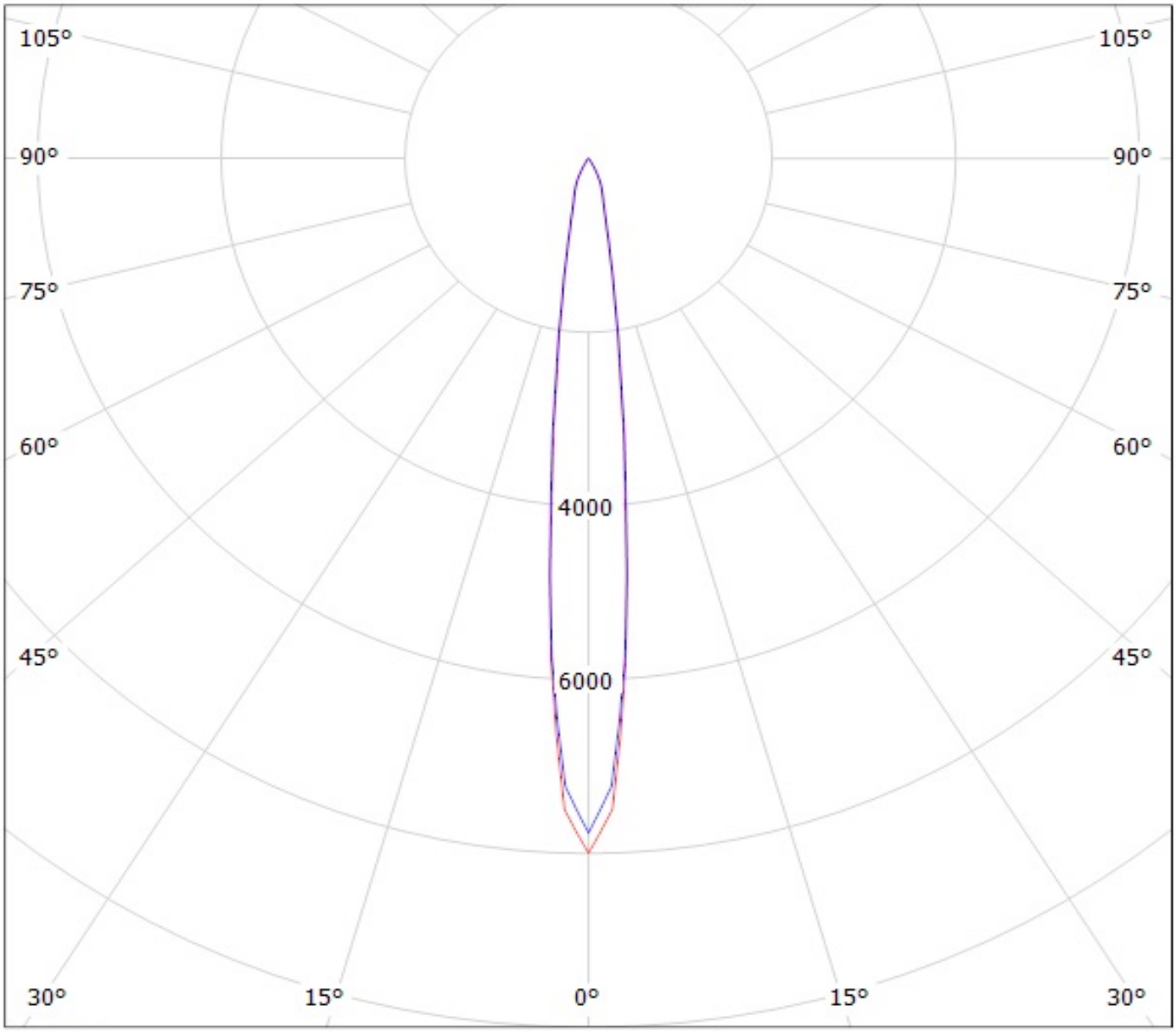
Luminaire: Ledil Oy CA12107_Lena-S-Diffuser-Lens_CXA20 CA12107_Lena-S-Diffuser-Lens_CXA20
Lamps: 1 x Cree-CXA20



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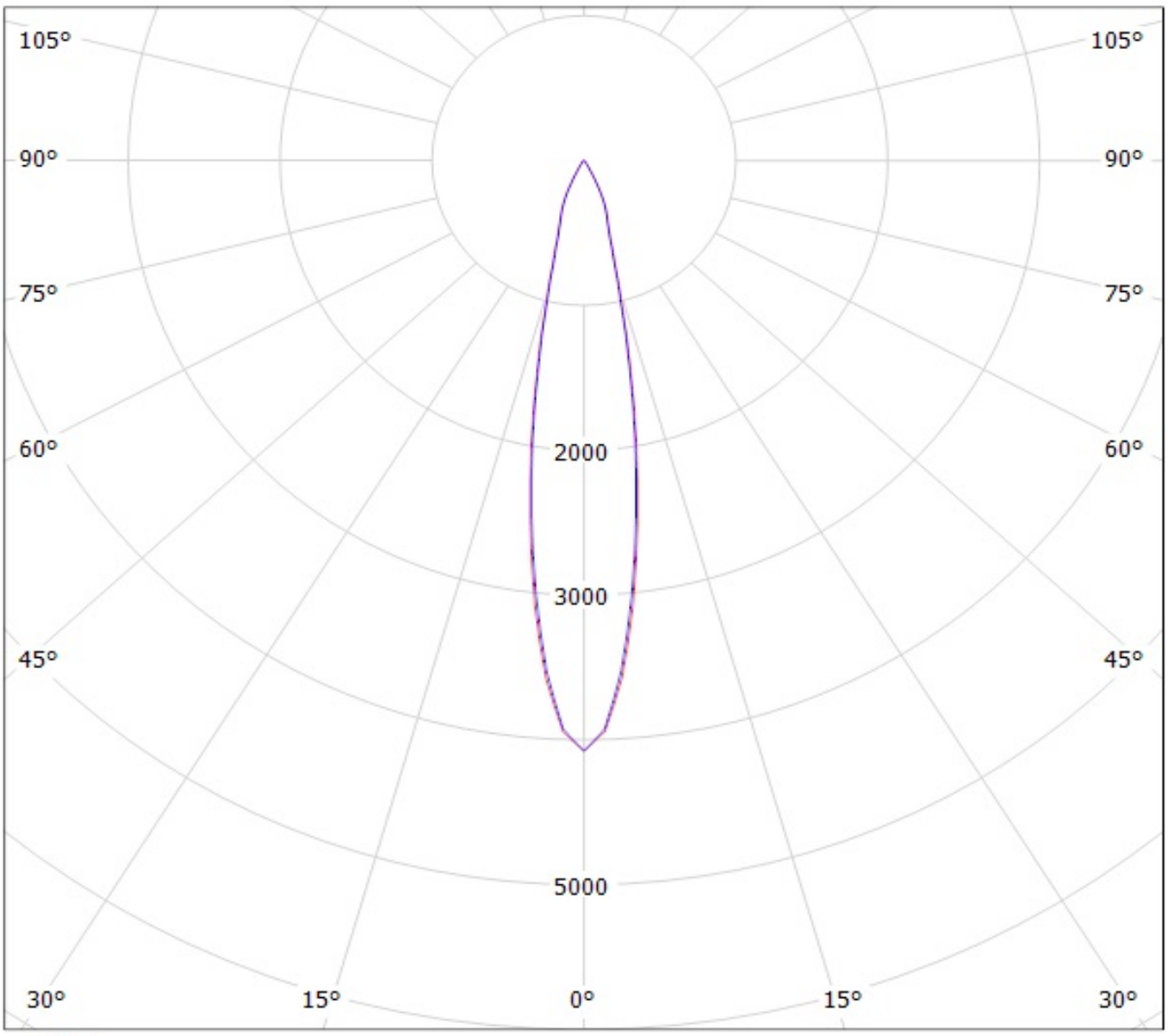
Luminaire: Ledil Oy CA12167_Lena-M-Diffuser-Lens_CXA20 CA12167_Lena-M-Diffuser-Lens_CXA20
Lamps: 1 x Cree CXA20 250mA 819lm



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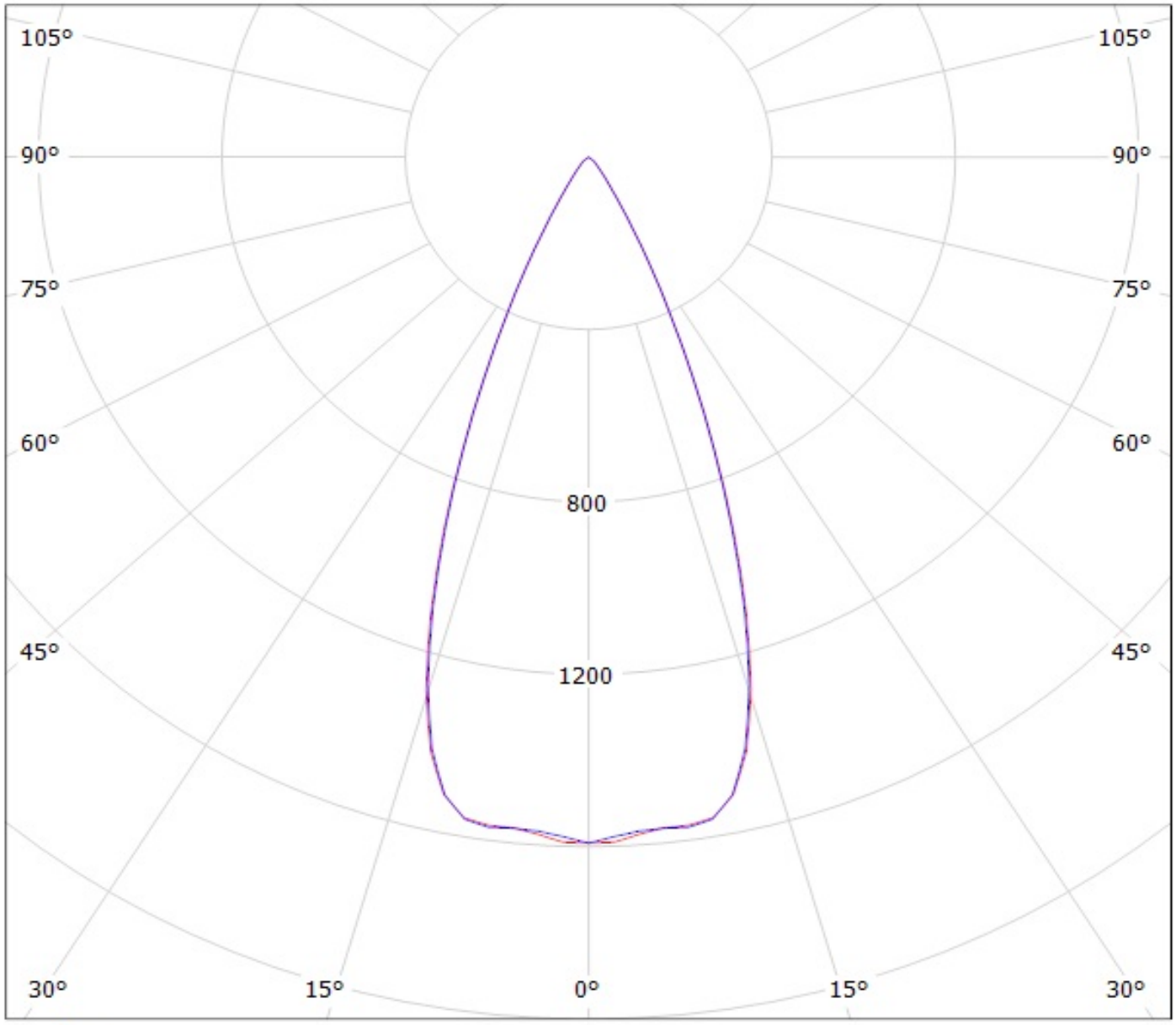
Luminaire: Ledil Oy CA12109_Lena-W-Diffuser-Lens_CXA20 CA12109_Lena-W-Diffuser-Lens_CXA20
Lamps: 1 x Cree CXA20



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