

**Product number CN13162_LENA-WAS**

Family	Lena
Type	RefPack
LED	LUXEON CoB 1204/1205
Color	Metal
Diameter	111 mm
Height	38.2 mm
Style	Round
Optic Material	-
Holder Material	-
Fastening	["screw", "socket"]
Status	Production ready

FWHM	(simulated) Asymmetric
Efficiency	(simulated) 93 %
cd/lm	(simulated) 1.700
Gerber File	Available

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

Product number CN13172_LENA-WAS-DL

Family	Lena
Type	RefPack
LED	LUXEON CoB 1204/1205
Color	Metal
Diameter	111 mm
Height	40.3 mm
Style	Round
Optic Material	PC
Holder Material	-
Fastening	["screw", "socket"]
Status	Production ready

FWHM	(simulated) Asymmetric
Efficiency	(simulated) 88 %
cd/lm	(simulated) 1.100
Gerber File	Available

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

Product number CN13457_LENA-X-WAS-DL

Family	Lena
Type	RefPack
LED	LUXEON CoB 1204/1205
Color	White
Diameter	111 mm
Height	40.3 mm
Style	Round
Optic Material	HRPC
Holder Material	-
Fastening	["socket", "screw"]
Status	Production ready

FWHM	(simulated) Asymmetric
Efficiency	(simulated) 83 %
cd/lm	(simulated) 0.600
Gerber File	Available

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

Product number CN13461_LENA-X-WAS

Family	Lena
Type	Pack
LED	LUXEON CoB 1204/1205
Color	White
Diameter	111 mm
Height	38.2 mm
Style	Round
Optic Material	-
Holder Material	-
Fastening	["screw", "socket"]
Status	Production ready

FWHM	(simulated) Asymmetric
Efficiency	(simulated) 90 %
cd/lm	(simulated) 0.800
Gerber File	Available

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

**Product number CN12293_LENA-S**

Family	Lena	FWHM	10 degrees
Type	RefPack	Efficiency	83 %
LED	LUXEON CoB 1204/1205	cd/lm	13.100
Color	Metal	Gerber File	Available
Diameter	111 mm		
Height	85.6 mm		
Style	Round		
Optic Material	-		
Holder Material	-		
Fastening	["screw"]		
Status	Production ready		

Product number CN12296_LENA-S-DL

Family	Lena	FWHM	12 degrees
Type	RefPack	Efficiency	77 %
LED	LUXEON CoB 1204/1205	cd/lm	7.300
Color	Metal	Gerber File	Available
Diameter	111 mm		
Height	85.6 mm		
Style	Round		
Optic Material	PC		
Holder Material	-		
Fastening	["screw"]		
Status	Production ready		

Product number CN12294_LENA-M

Family	Lena	FWHM	19 degrees
Type	RefPack	Efficiency	79 %
LED	LUXEON CoB 1204/1205	cd/lm	5.100
Color	Metal	Gerber File	Available
Diameter	111 mm		
Height	85.6 mm		
Style	Round		
Optic Material	-		
Holder Material	-		
Fastening	["screw"]		
Status	Production ready		

Product number CN12297_LENA-M-DL

Family	Lena	FWHM	21 degrees
Type	RefPack	Efficiency	74 %
LED	LUXEON CoB 1204/1205	cd/lm	3.400
Color	Metal	Gerber File	Available
Diameter	111 mm		
Height	85.6 mm		
Style	Round		
Optic Material	PC		
Holder Material	-		
Fastening	["screw"]		
Status	Production ready		



PRODUCT DATASHEET

Lena series

last update 23/2/2014



Product number CN12298_LENA-W-DL

Family	Lena	FWHM	44 degrees
Type	RefPack	Efficiency	68 %
LED	LUXEON CoB 1204/1205	cd/lm	1.200
Color	Metal	Gerber File	Available
Diameter	111 mm		
Height	85.6 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.



PRODUCT DATASHEET

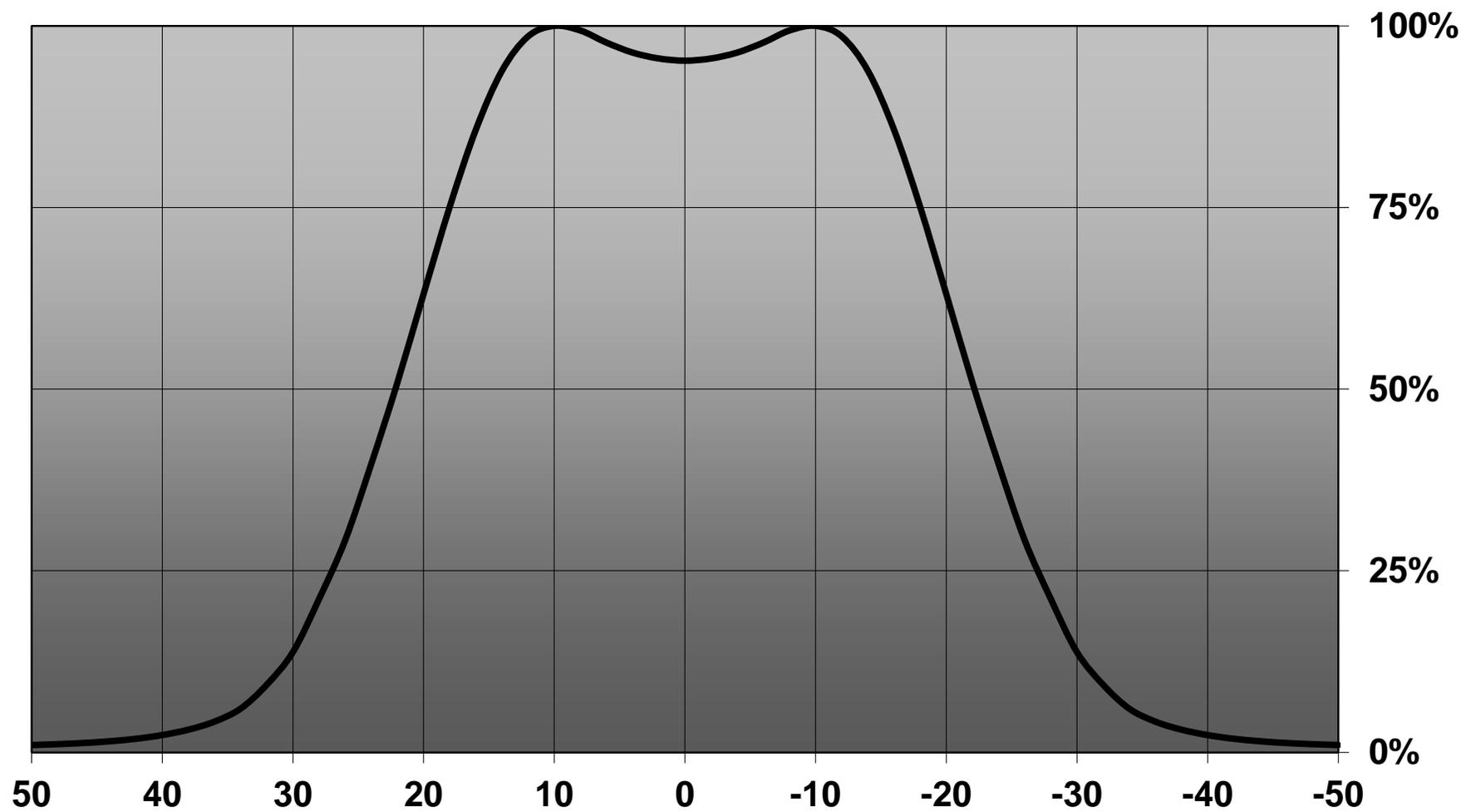
Lena series

last update 23/2/2014

GENERAL INFORMATION

- Product series especially designed & optimized for LUXEON CoB 1204/1205 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).

Relative intensity of CA12298_Lena-W-DL-MEZ



D

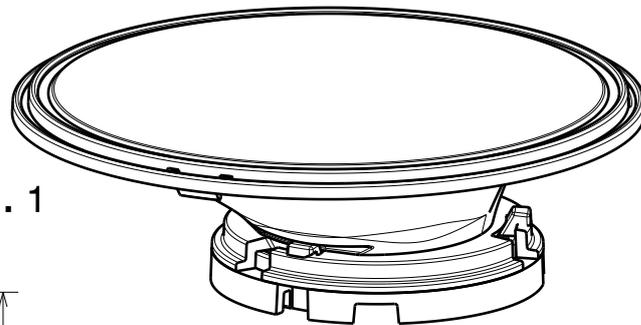
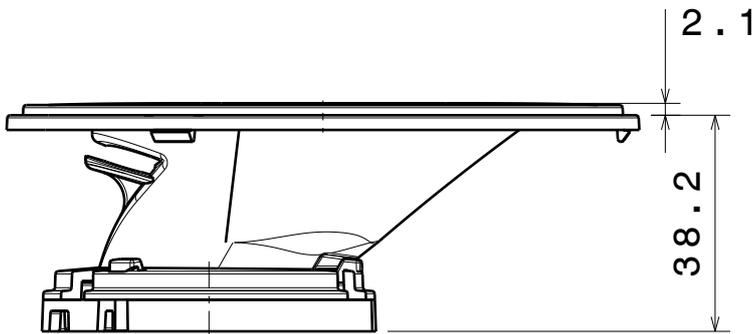
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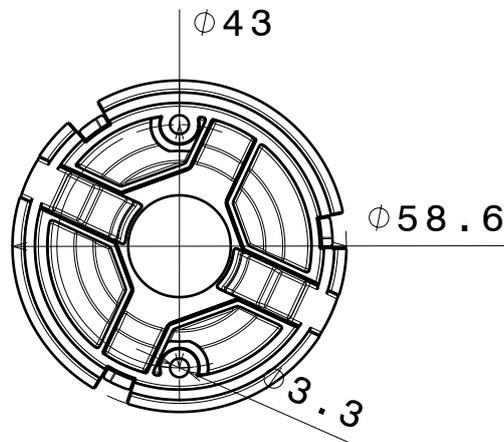
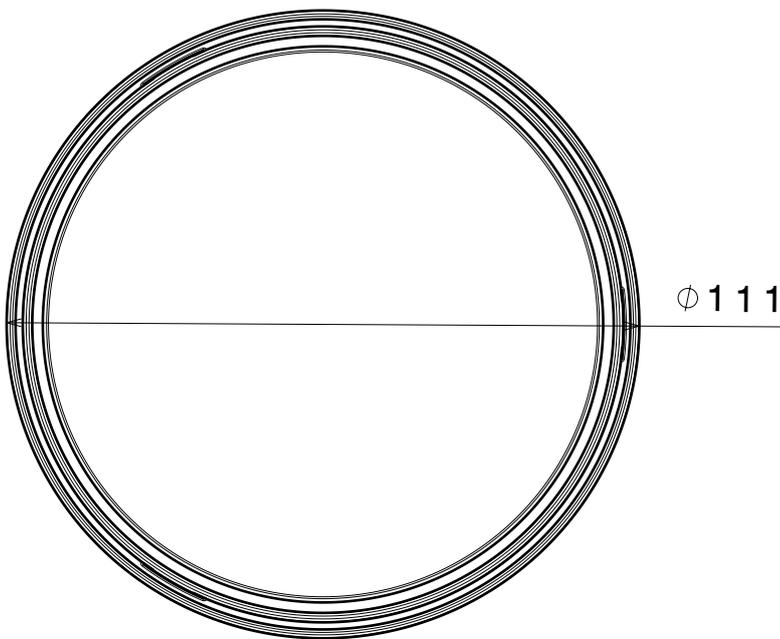
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Isometric view

3

3



Materials

Reflector: PC
 Base part: PC
 Sublens: PC

Note: Using additional sublens add
 2,1mm to total height.

2

2

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LEDiL LediL Oy
 Salorankatu 10
 FIN 24240 SALO
 Finland

DRAWING TITLE Mechanical drawing

DRAWN BY DATE
 as 26.9.2012

LENA-WAS

CHECKED BY DATE
 VS -

SIZE PART NUMBER REV
 A4 001

DESIGNED BY DATE
 - -

SCALE 2:3 WEIGHT - mg SHEET 1/1

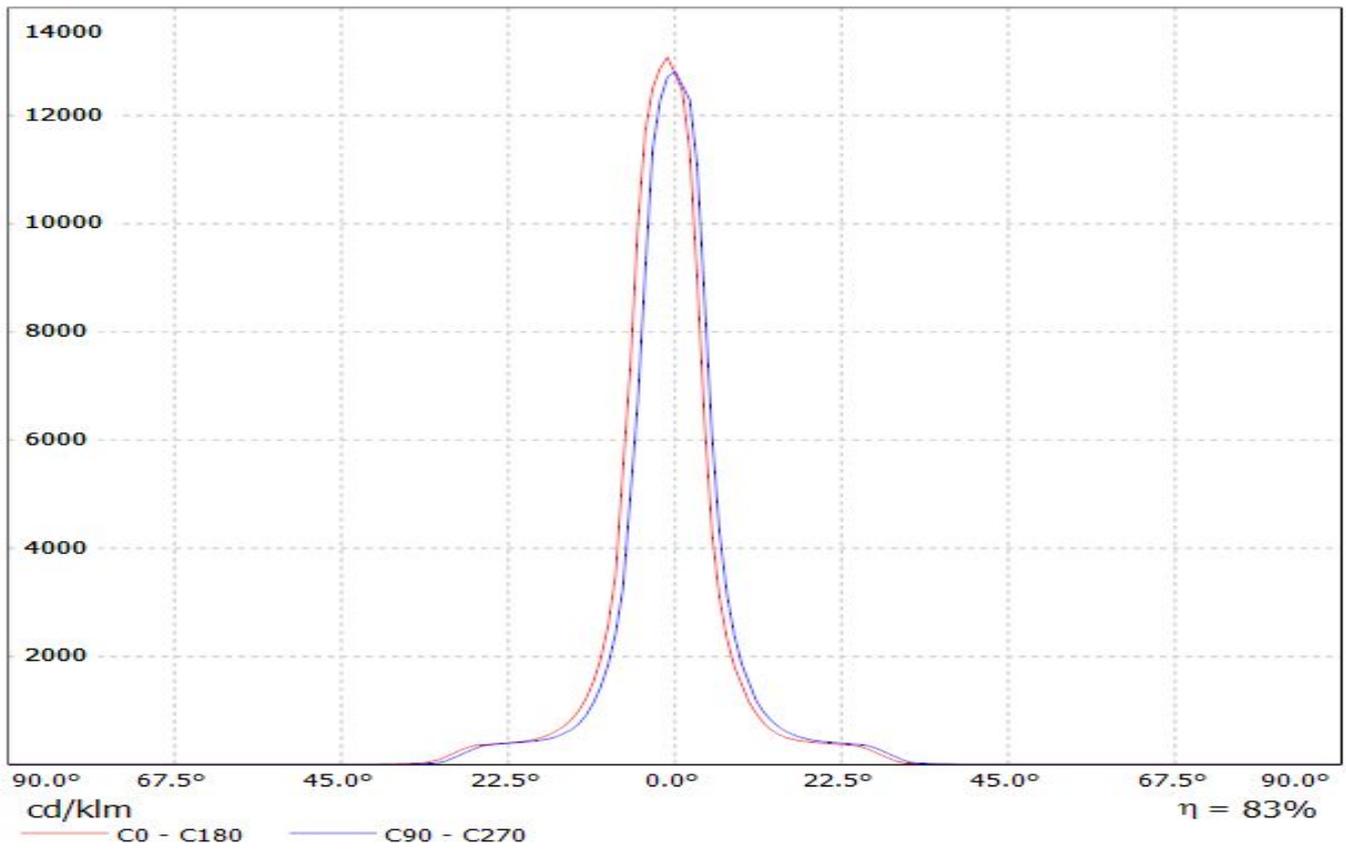
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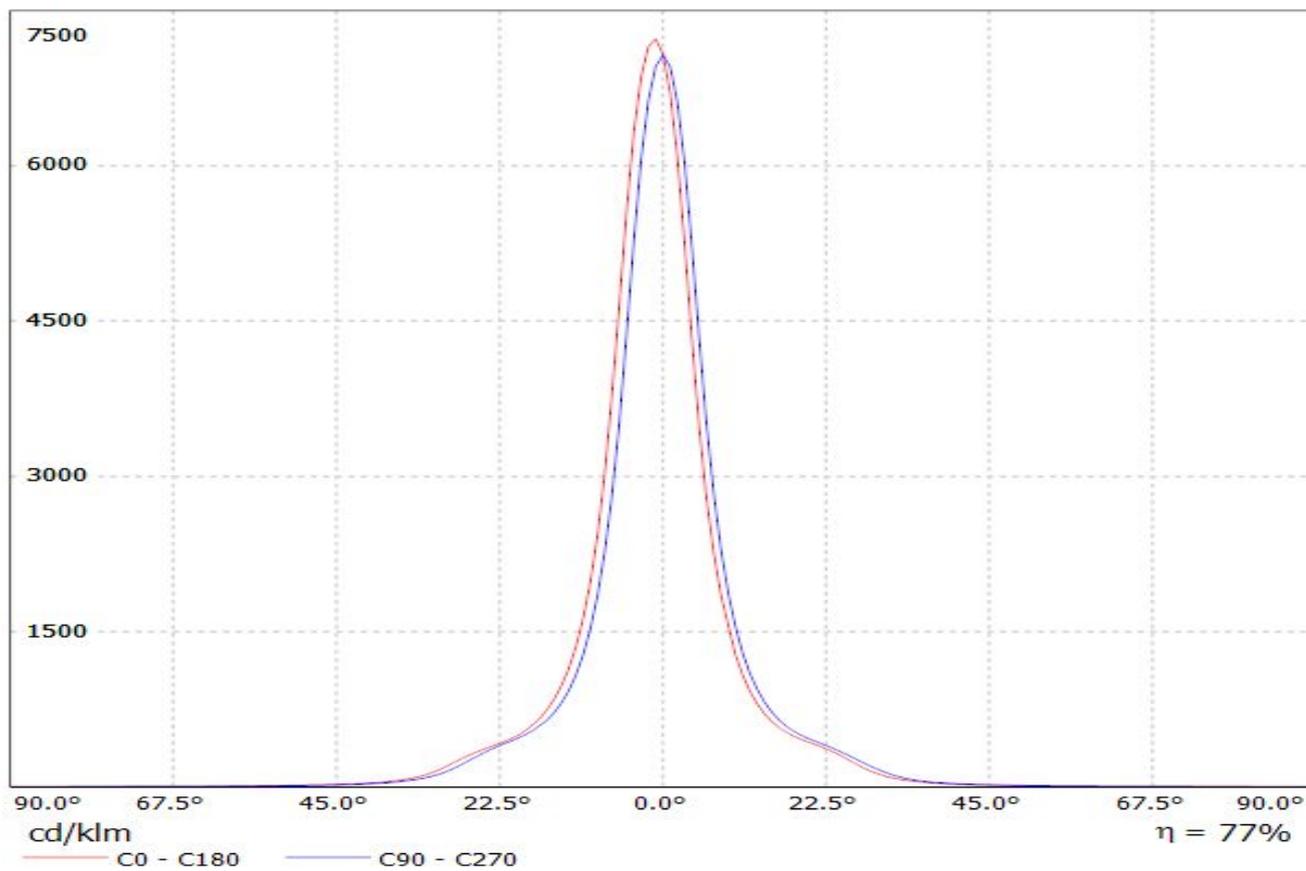
D

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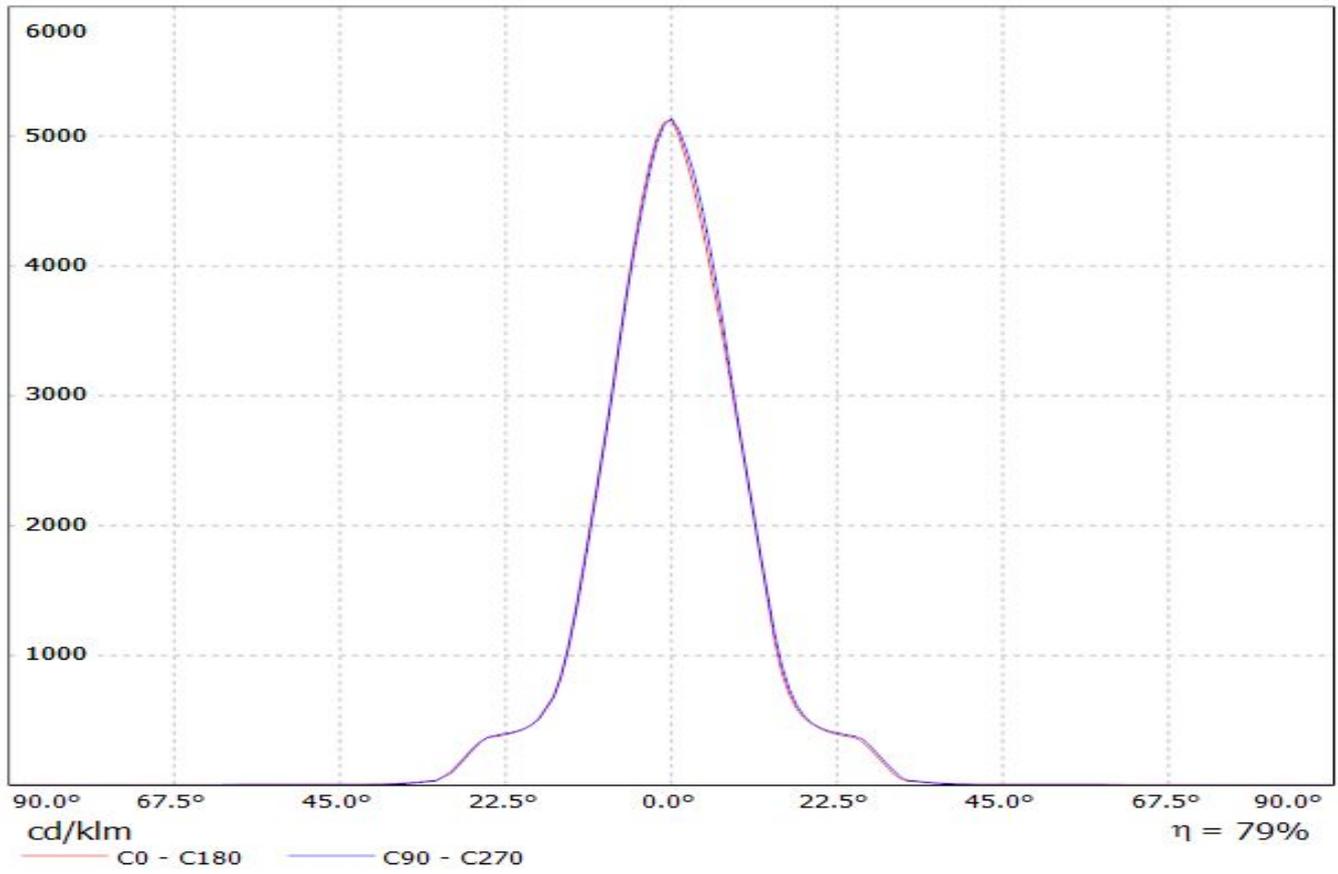
Luminaire: LEDiL Oy CN12293_LENA-S_(LUXEON-CoB_1205) Eff: 83 %
Lamps: 1 x LUXEON CoB 1205 (LHC1-3080-1205) 1106lm@250mA CCT=3000K P=8.3W I=250mA



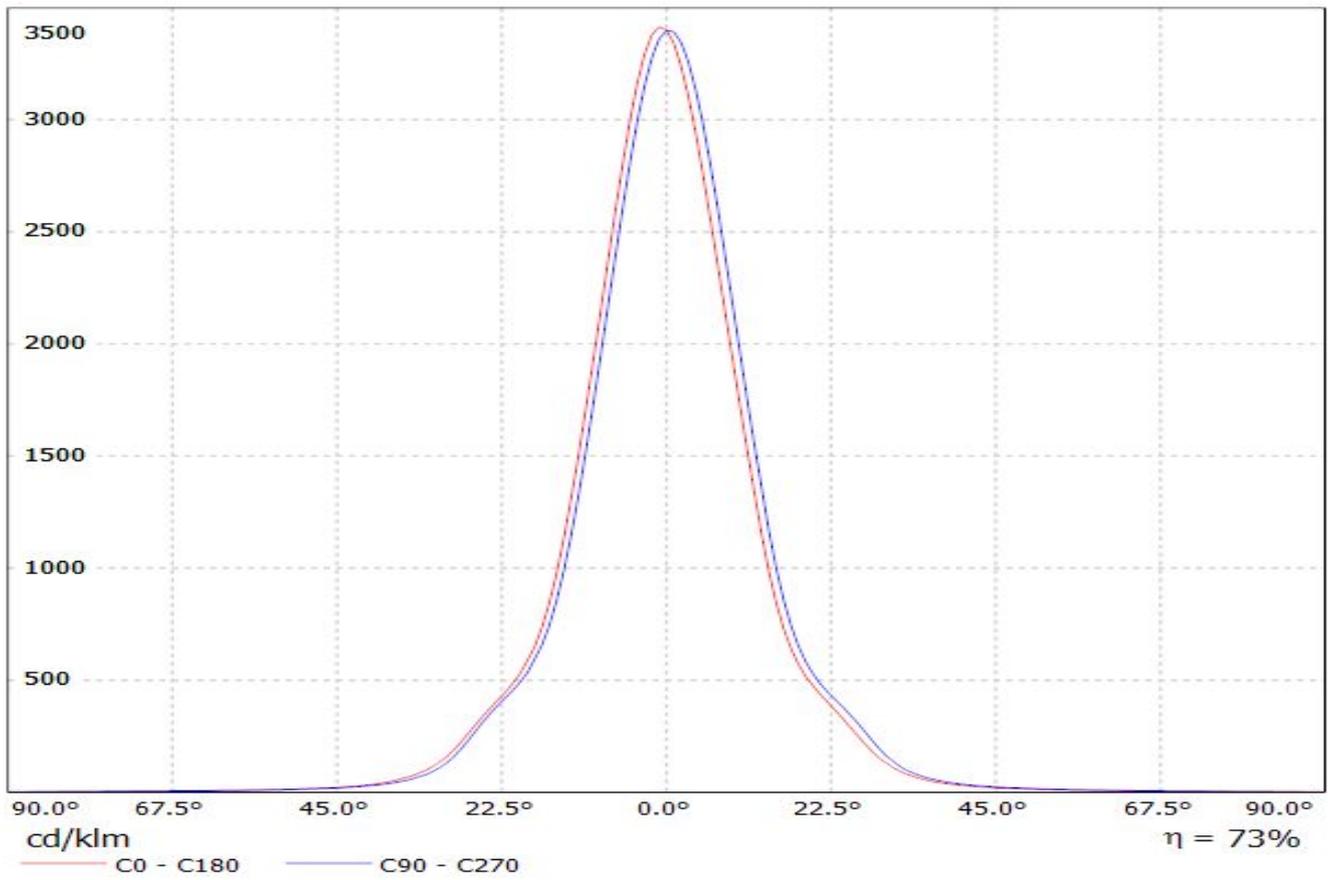
Luminaire: LEDiL Oy CN12296_LENA-S-DL (LUXEON CoB_1205) Eff: 77 %
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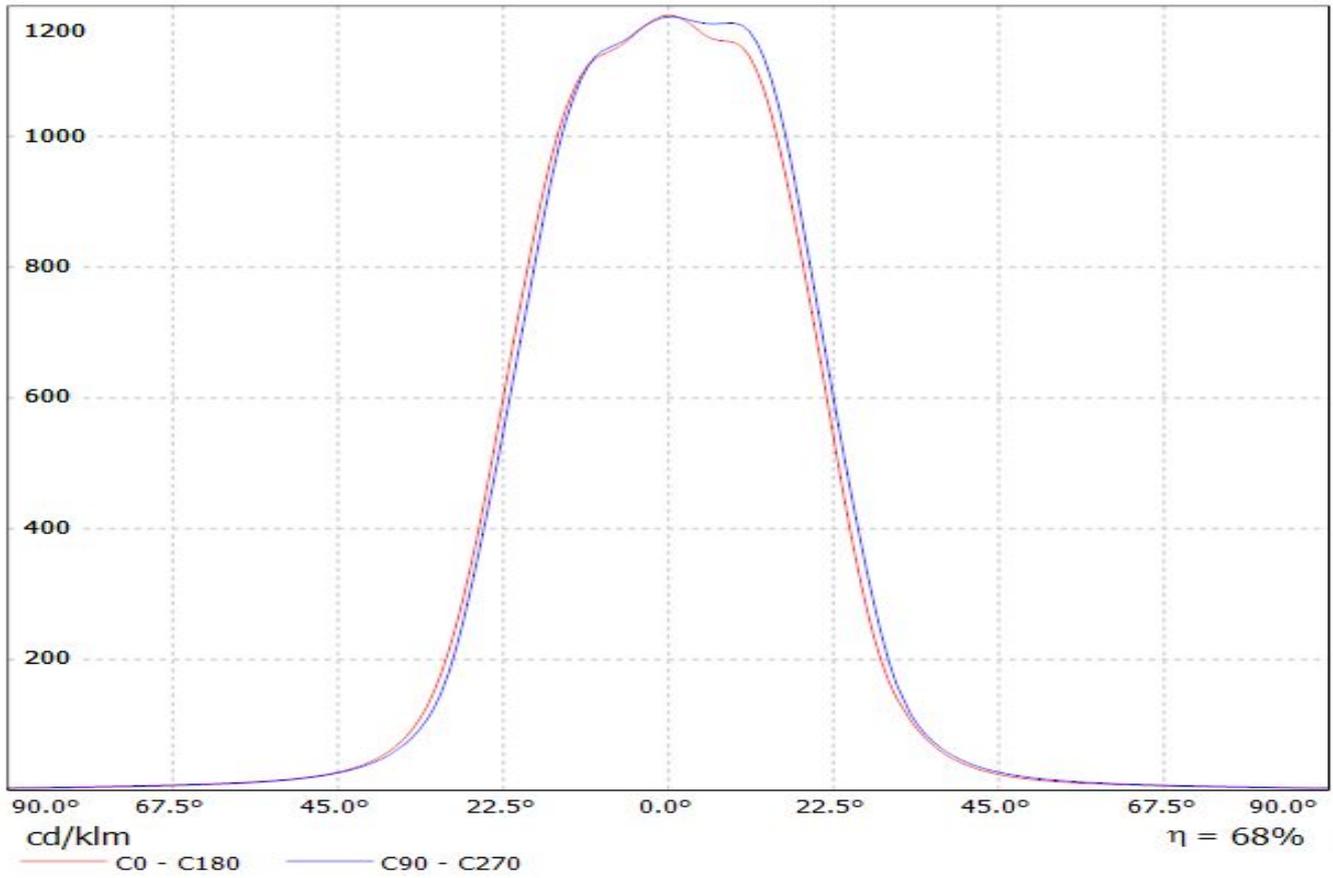
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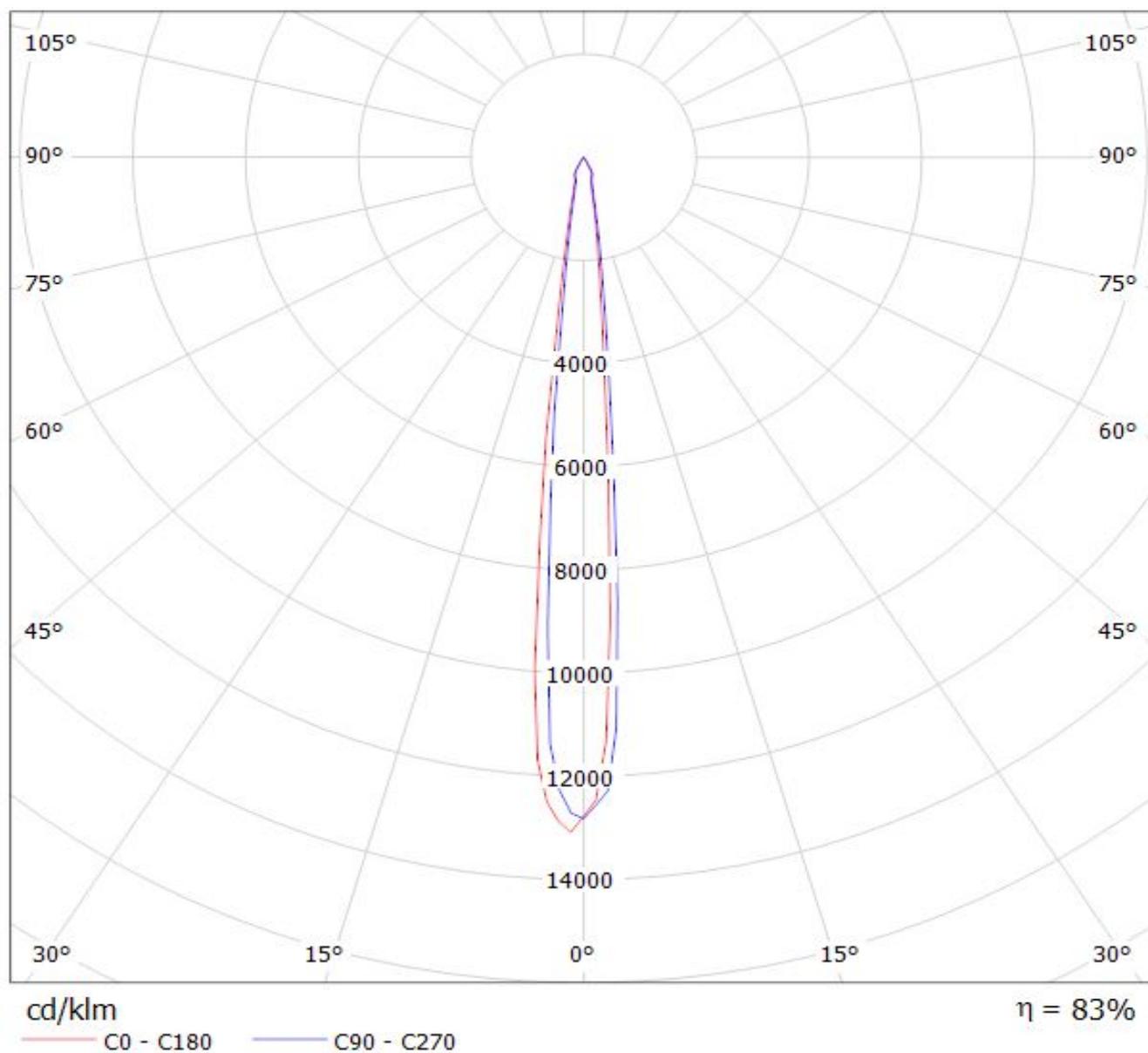
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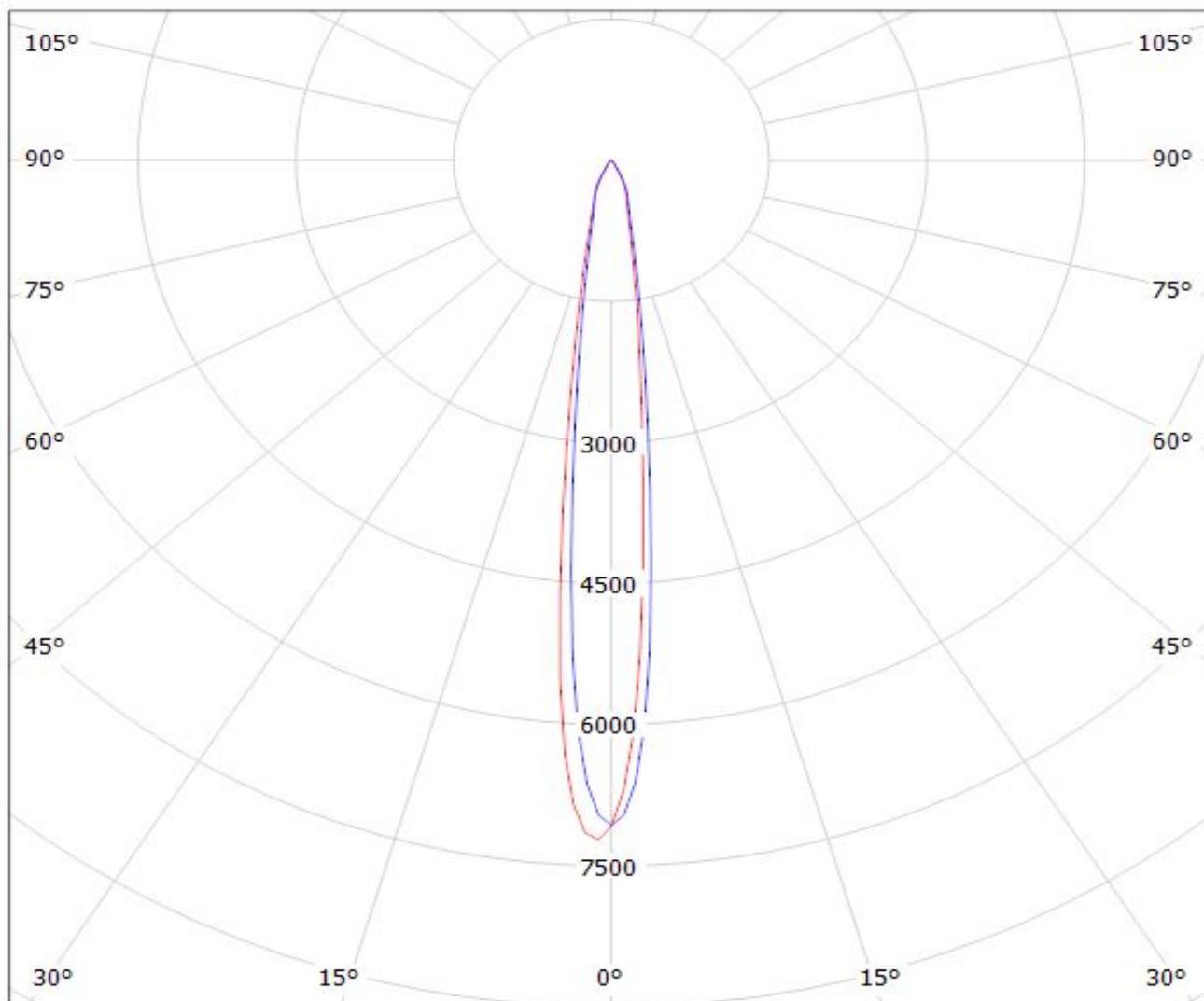
Luminaire: LEDiL Oy CN12298_LENA-W-DL_(LUXEON_CoB_1205) Eff. 68%
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cd/klm

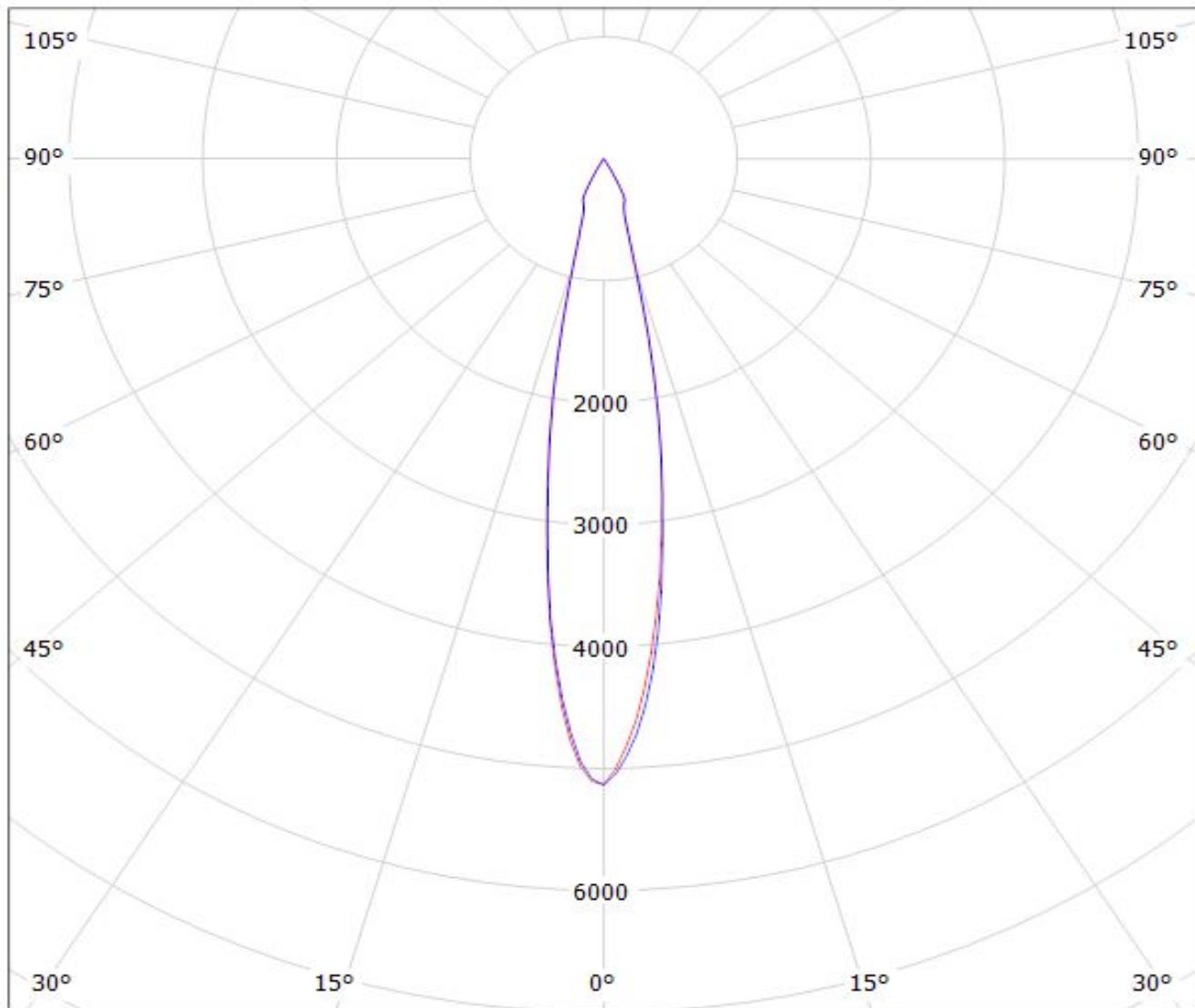
$\eta = 77\%$

— C0 - C180

— C90 - C270

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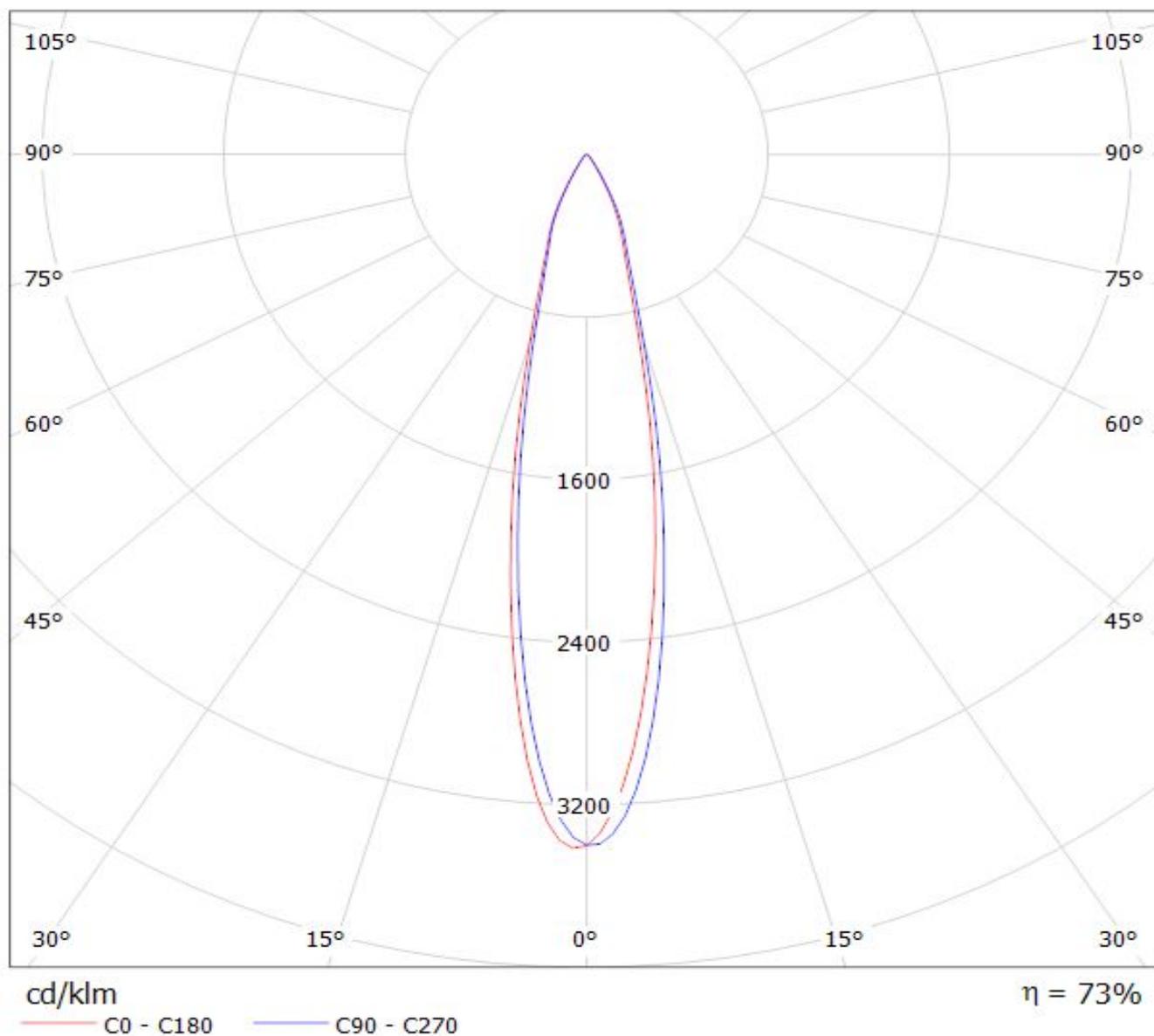
cd/klm

$\eta = 79\%$

— C0 - C180

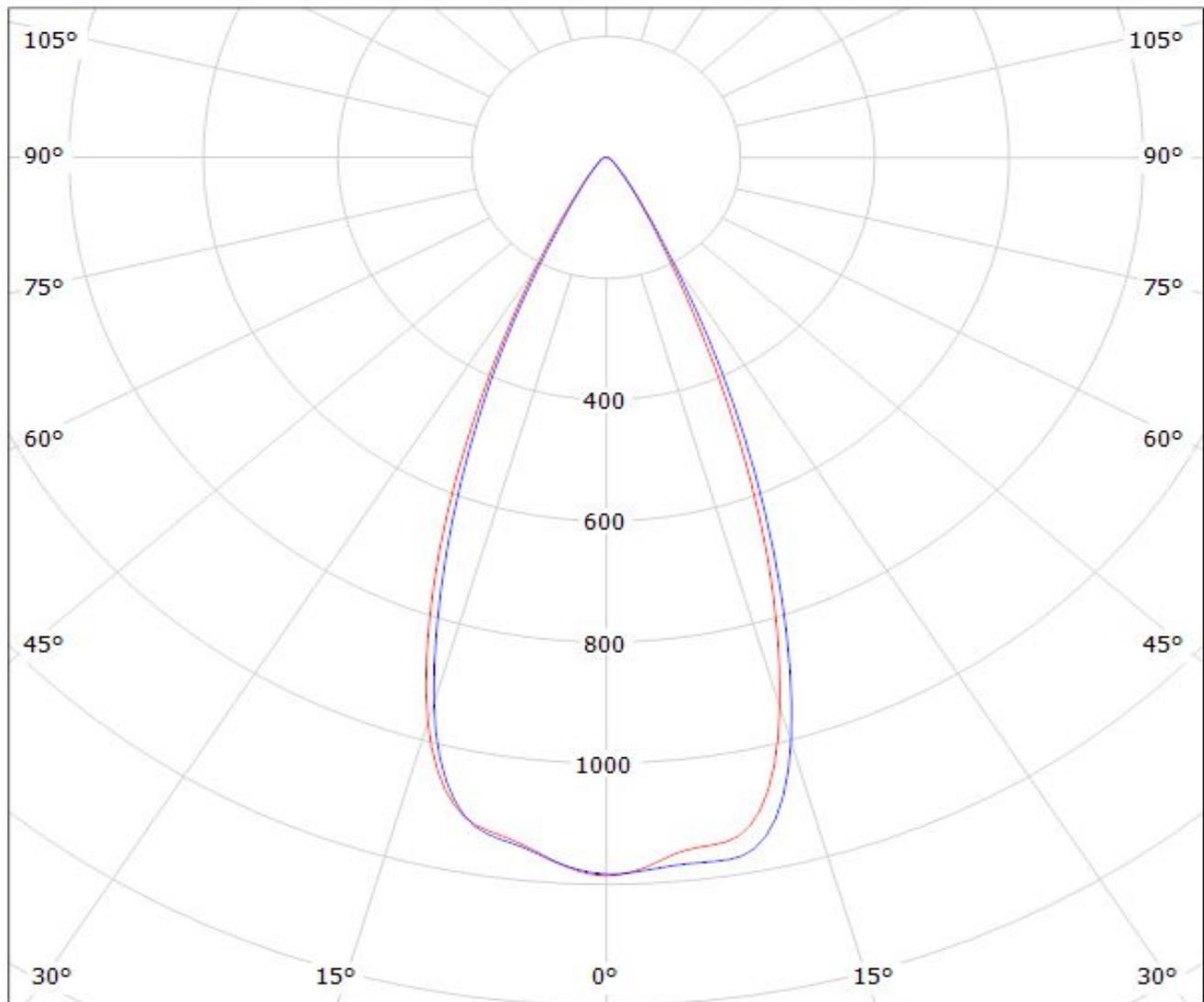
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cd/klm

— C0 - C180

— C90 - C270

$\eta = 68\%$