

**Product number CN13162_LENA-WAS**

Family	Lena
Type	RefPack
LED	LUXEON CoB 1208
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) 92 %
cd/lm	(simulated) 1.600
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 CN13172_LENA-WAS-DL**

Family	Lena
Type	RefPack
LED	LUXEON CoB 1208
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) 87 %
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 CN13461_LENA-X-WAS**

Family	Lena
Type	Pack
LED	LUXEON CoB 1208
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
Type	RefPack
LED	LUXEON CoB 1208
Color	Metal
Diameter	111 mm
Height	85.6 mm
Style	Round
Optic Material	-
Holder Material	-
Fastening	["screw"]
Status	Production ready

FWHM	12 degrees
Efficiency	84 %
cd/lm	9.900
Gerber File	Available

**Product number CN12296_LENA-S-DL**

Family	Lena	FWHM	14 degrees
Type	RefPack	Efficiency	78 %
LED	LUXEON CoB 1208	cd/lm	6.000
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	21 degrees
Type	RefPack	Efficiency	80 %
LED	LUXEON CoB 1208	cd/lm	4.500
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	23 degrees
Type	RefPack	Efficiency	74 %
LED	LUXEON CoB 1208	cd/lm	3.100
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 CN12295_LENA-W**

Family	Lena	FWHM	46 degrees
Type	RefPack	Efficiency	73 %
LED	LUXEON CoB 1208	cd/lm	1.400
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 CN12298_LENA-W-DL

Family	Lena	FWHM	46 degrees
Type	RefPack	Efficiency	68 %
LED	LUXEON CoB 1208	cd/lm	1.100
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.

GENERAL INFORMATION

- Product series especially designed & optimized for LUXEON CoB 1208 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).

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.

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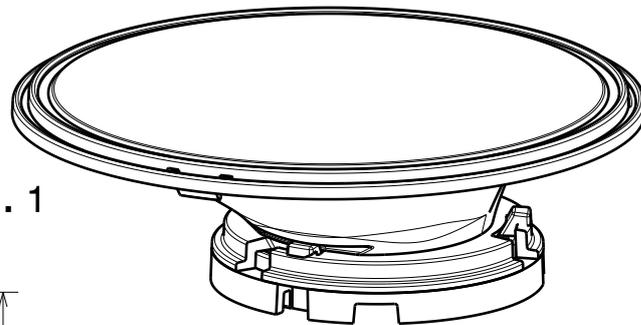
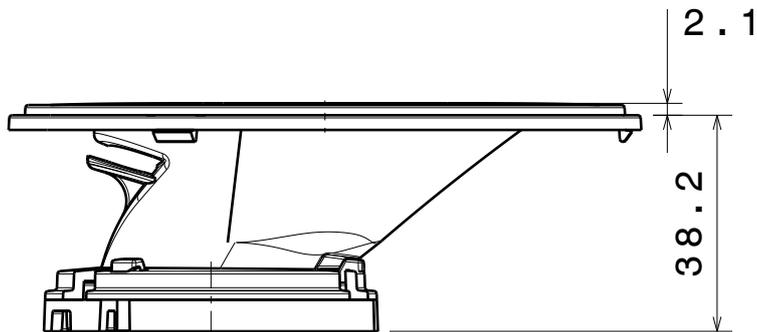
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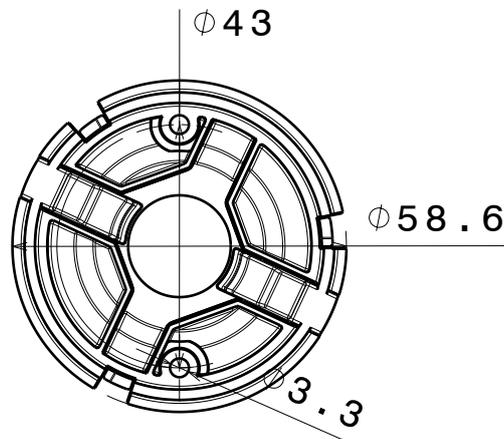
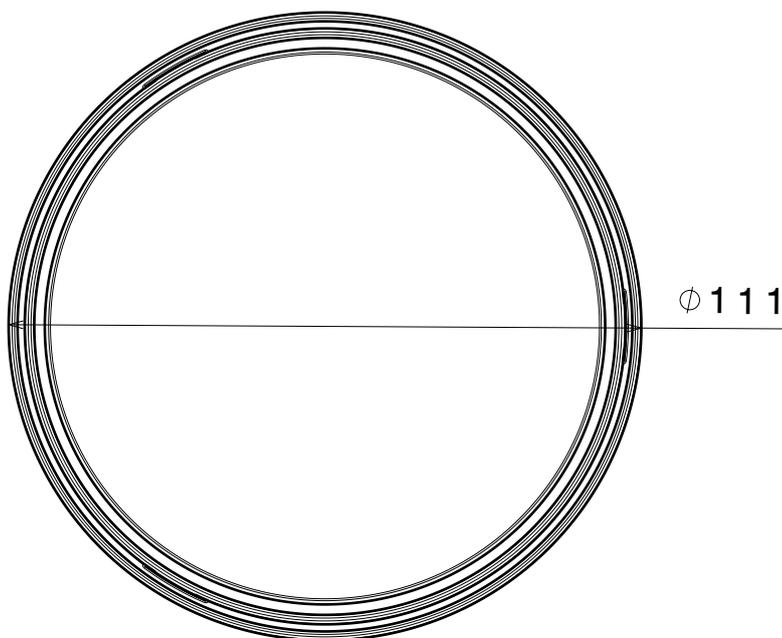
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Isometric view

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3



Materials

Reflector: PC
 Base part: PC
 Sublens: PC

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

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LEDiL LediL Oy
 Salorankatu 10
 FIN 24240 SALO
 Finland

DRAWING TITLE Mechanical drawing

DRAWN BY
as

DATE
 26.9.2012

LENA-WAS

CHECKED BY
VS

DATE
 -

SIZE PART NUMBER
A4

REV
001

DESIGNED BY
 -

DATE
 -

SCALE 2:3 WEIGHT - mg SHEET 1/1

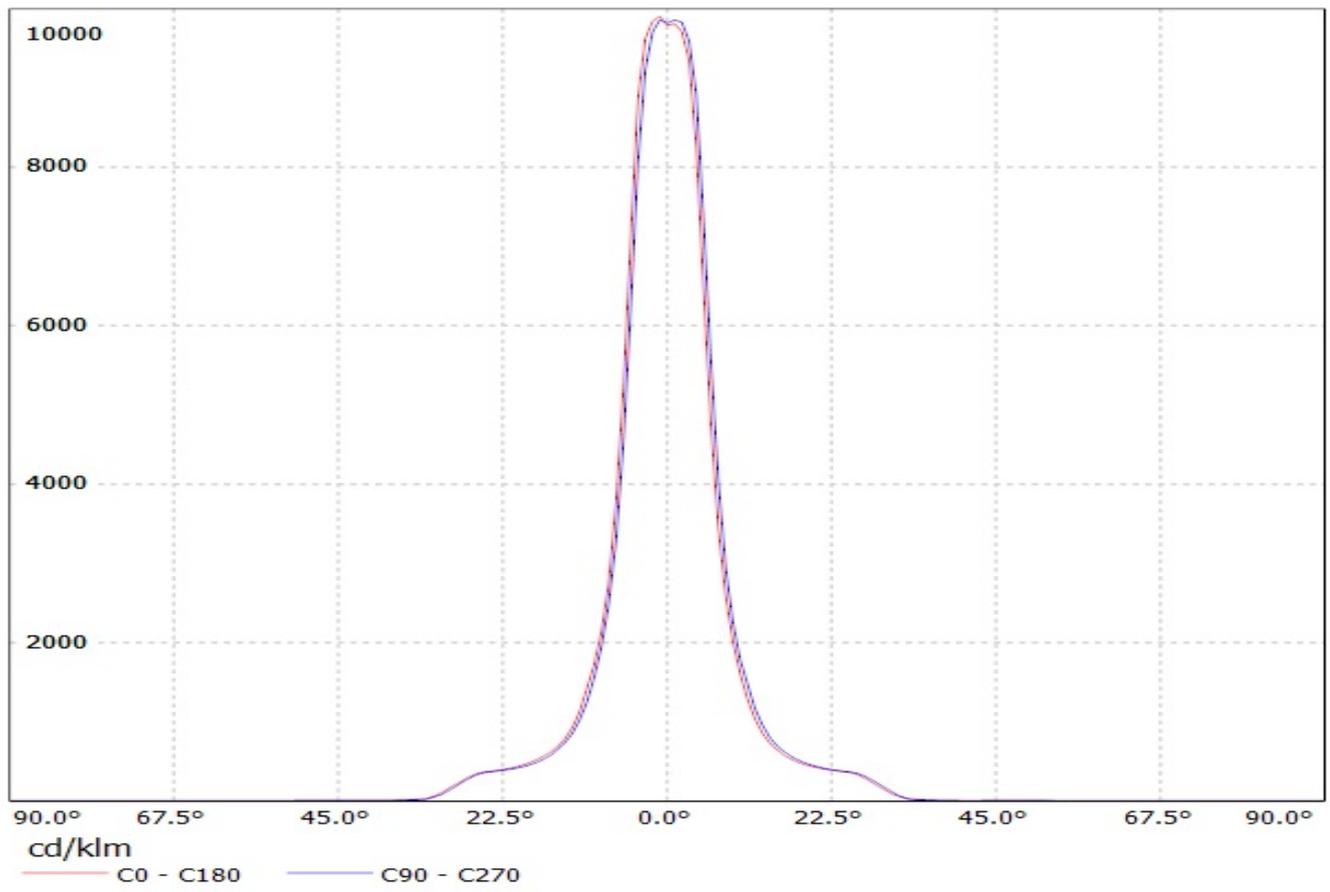
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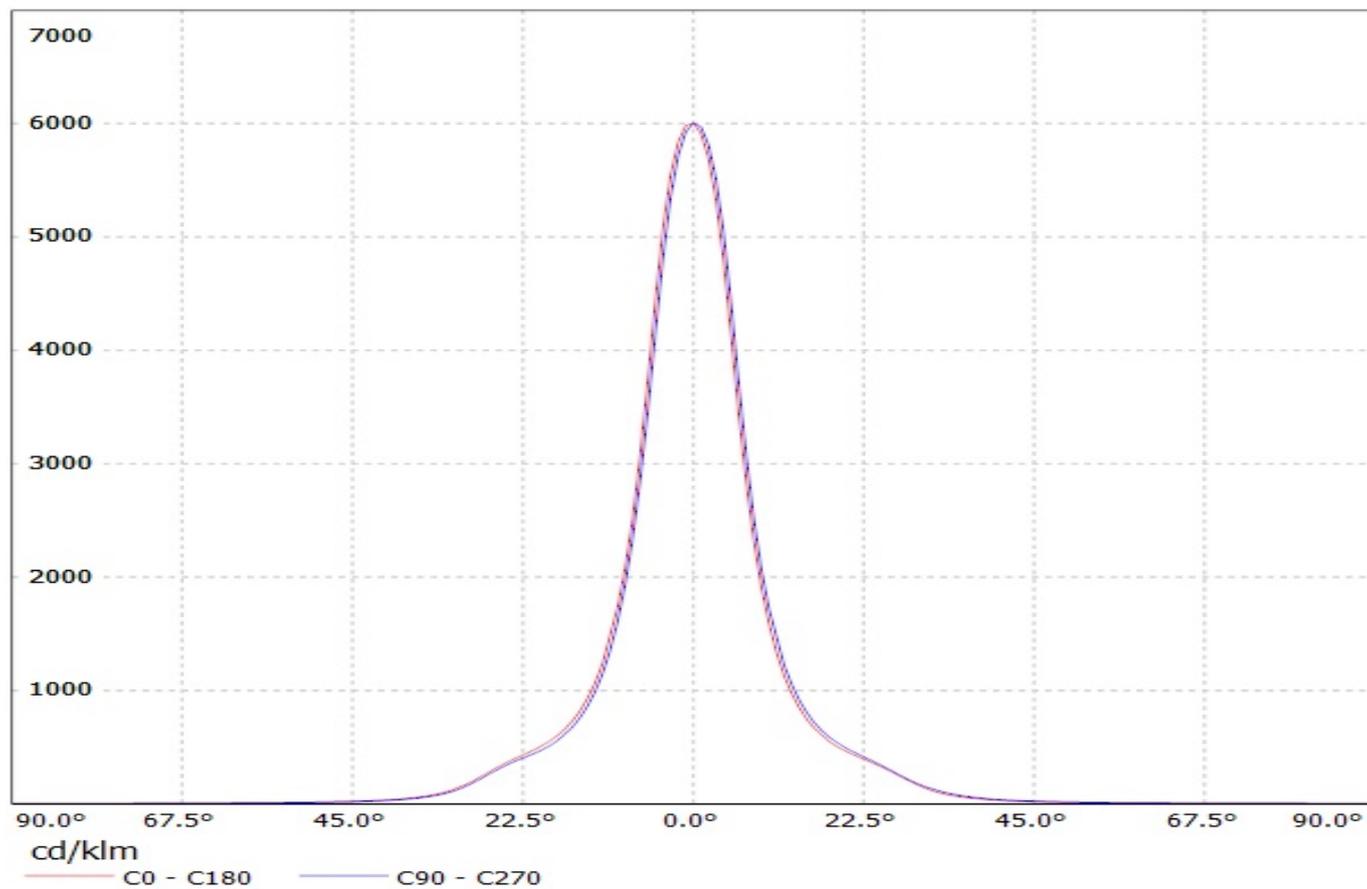
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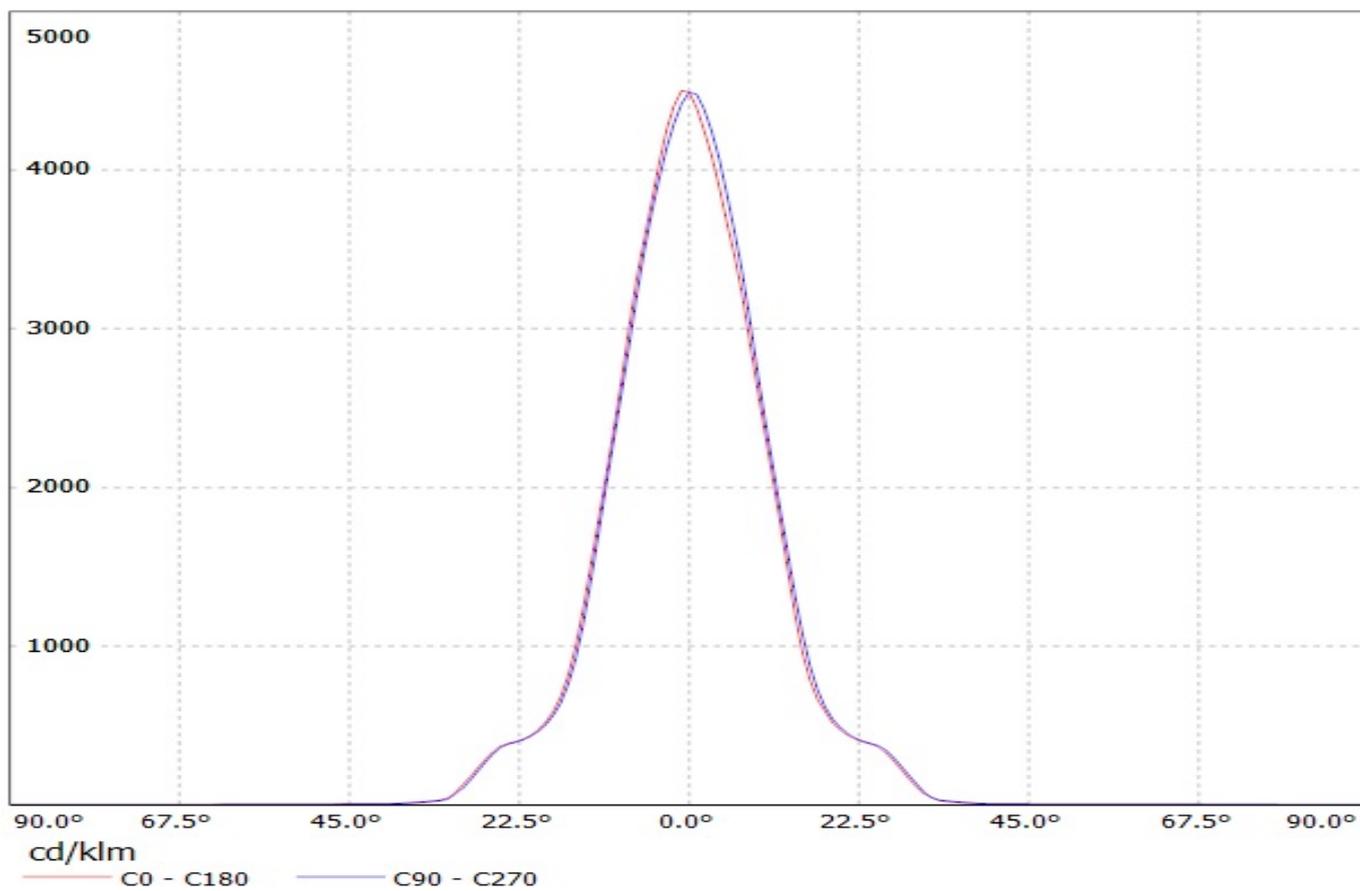
Luminaire: LEDiL Oy CN12293_LENA-S_(Luxeon-Cob-1208) Eff: 84 %
Lamps: 1 x Luxeon CoB 1208 (LHC1-3080-1208) 1065lm@250mA CCT=3000K P=8.3W I=250mA



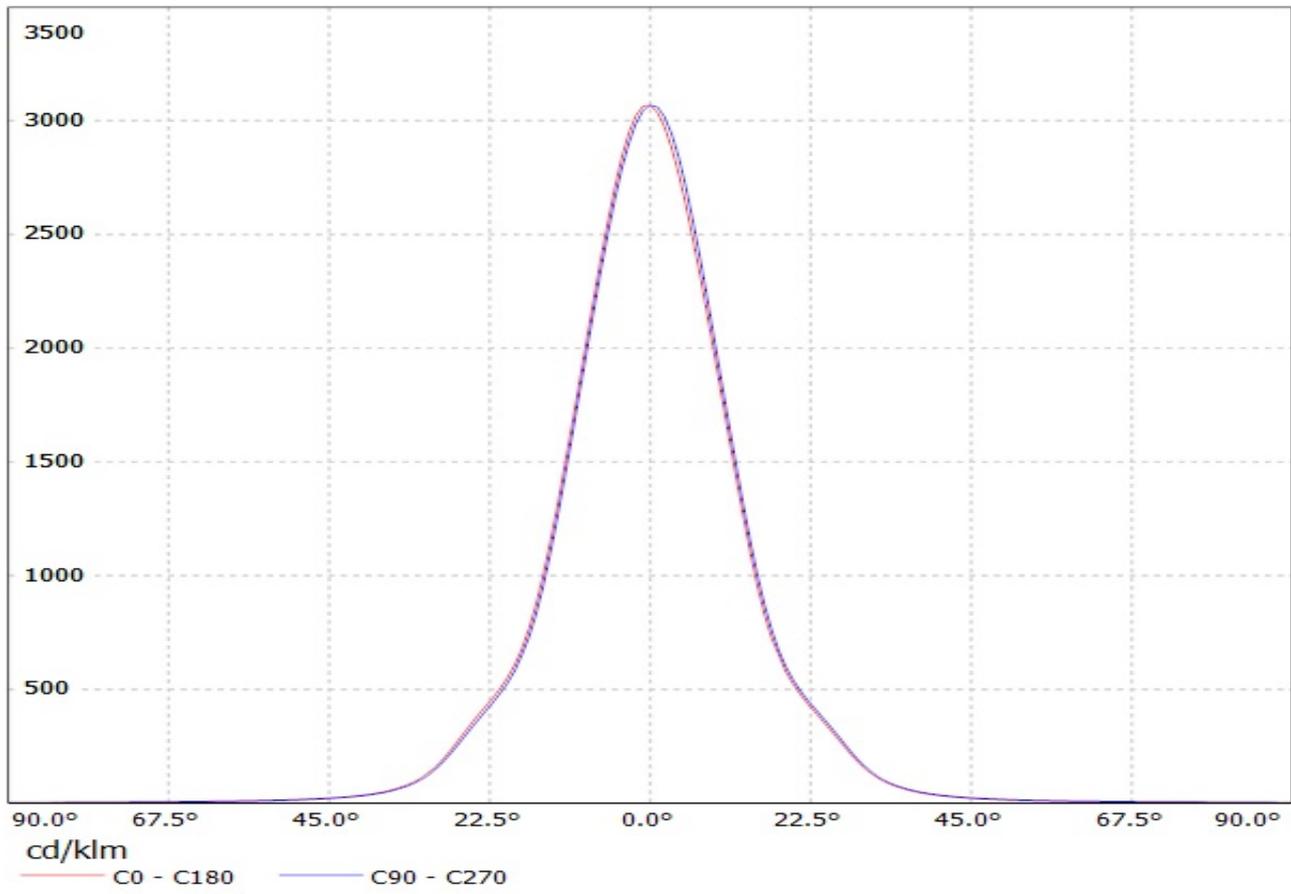
Luminaire: LEDiL Oy CN12296_LENA-S-DL_(Luxeon-Cob-1208) Eff: 78 %
Lamps: 1 x Luxeon CoB 1208 (LHC1-3080-1208) 1065lm@250mA CCT=3000K P=8.3W I=250mA



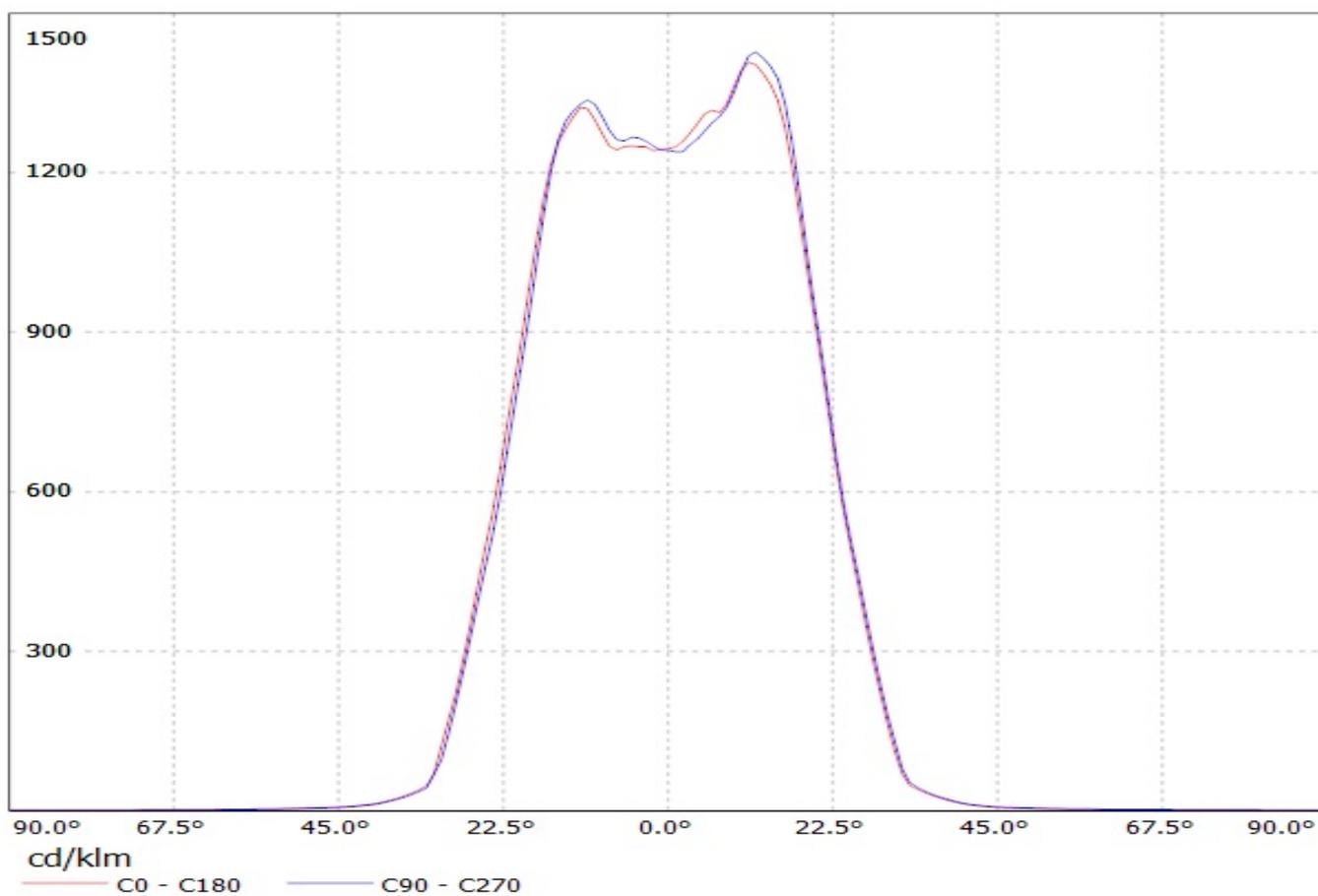
Luminaire: LEDiL Oy CN12294_LENA-M_(Luxeon_CoB_1208) Eff: 80 %
Lamps: 1 x Luxeon CoB 1208 (LHC1-3080-1208) 1065lm@250mA CCT=3000K P=8.3W I=250mA



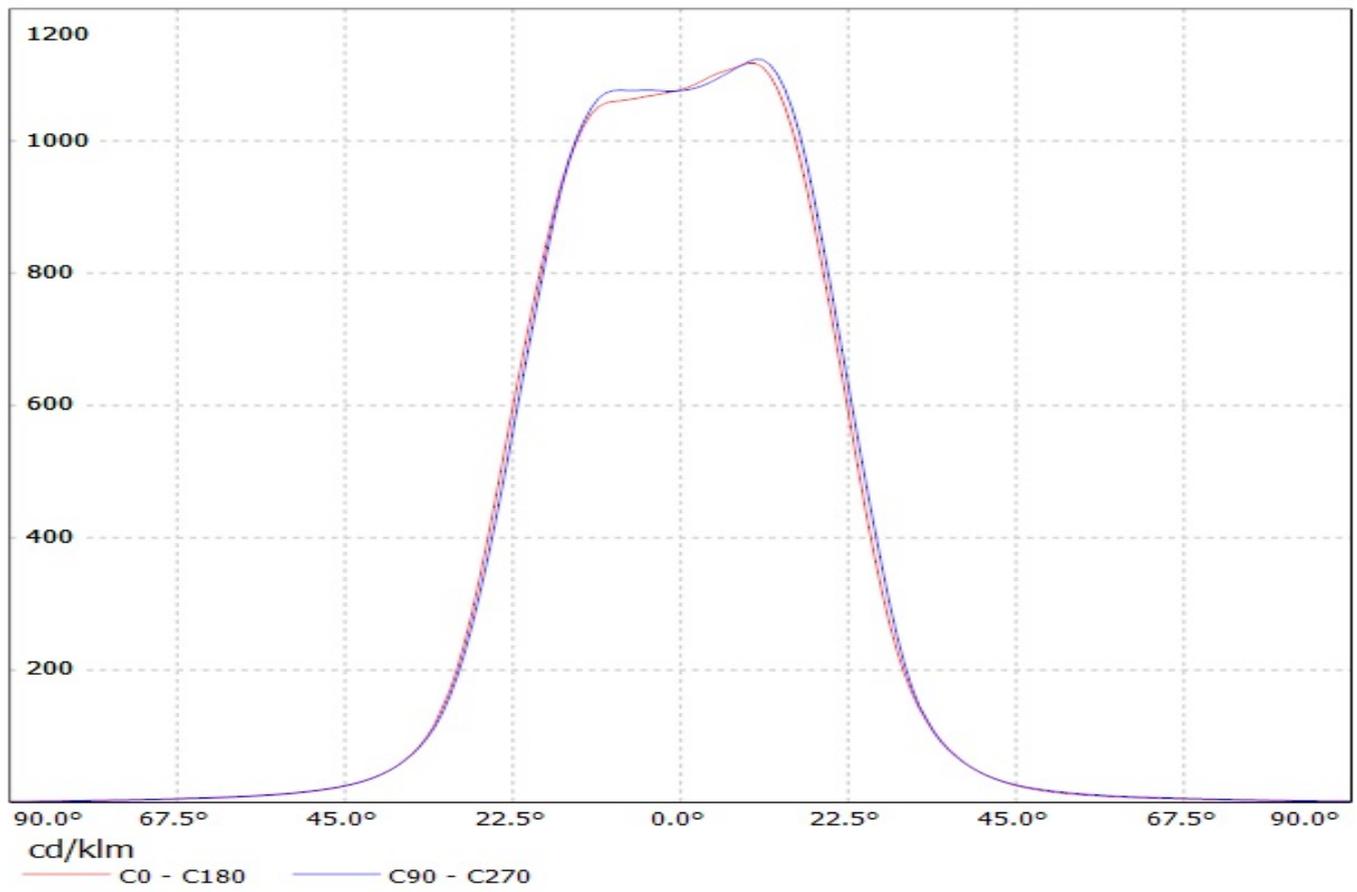
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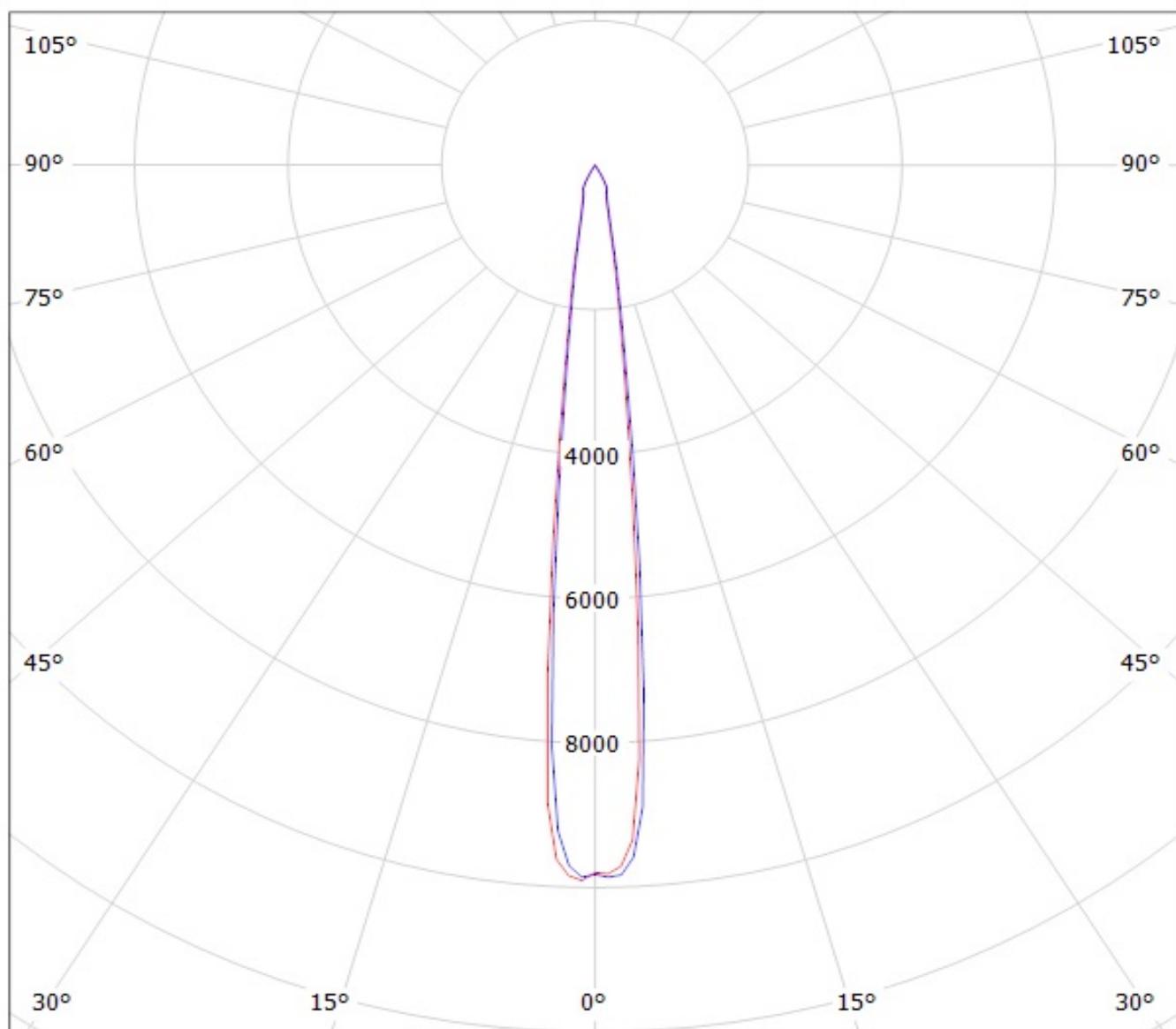
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Luminaire: LEDiL Oy CN12298_LENA-W-DL_(Luxeon_CoB_1208) Eff. 68 %
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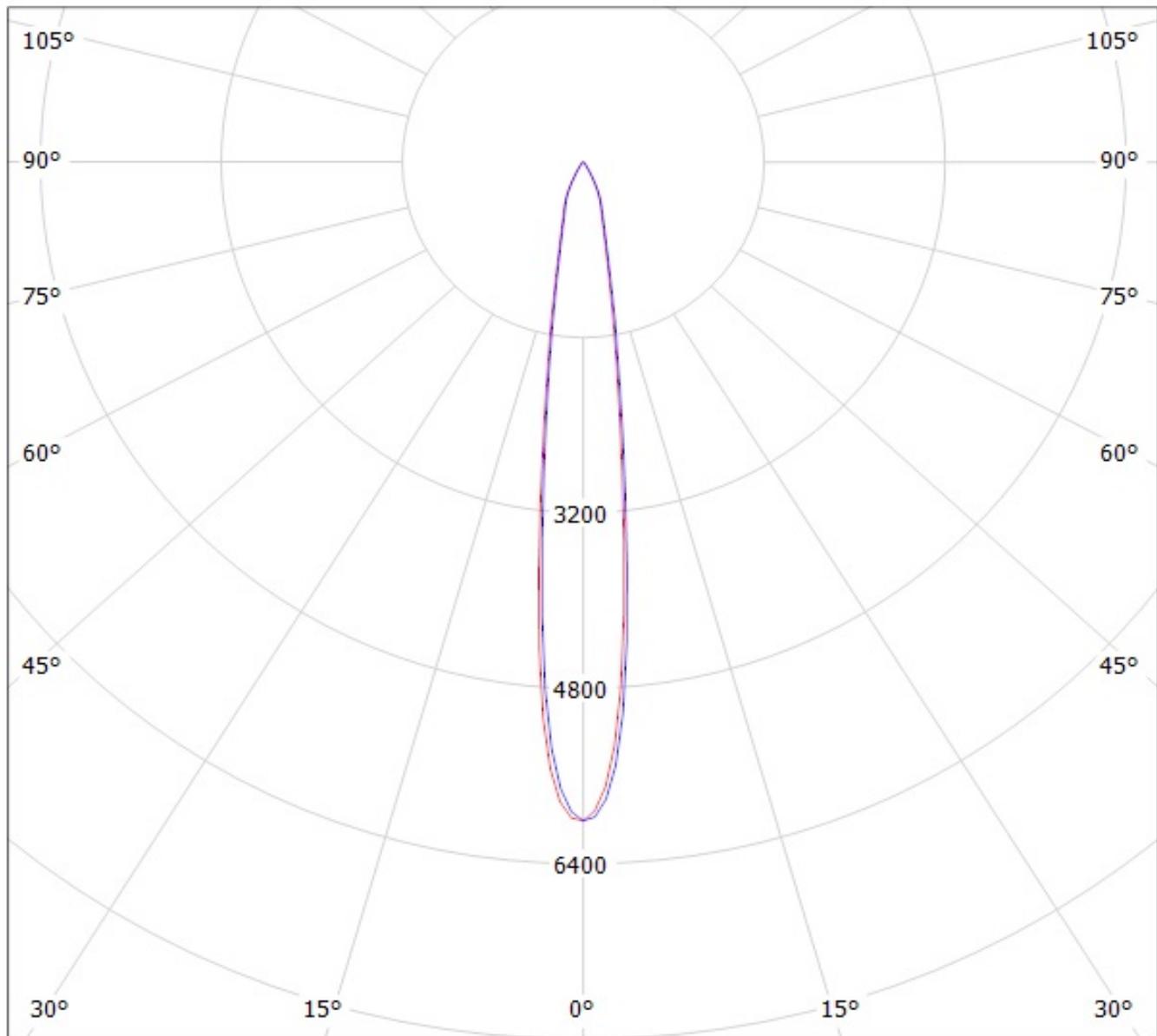
cd/klm

— C0 - C180

— C90 - C270

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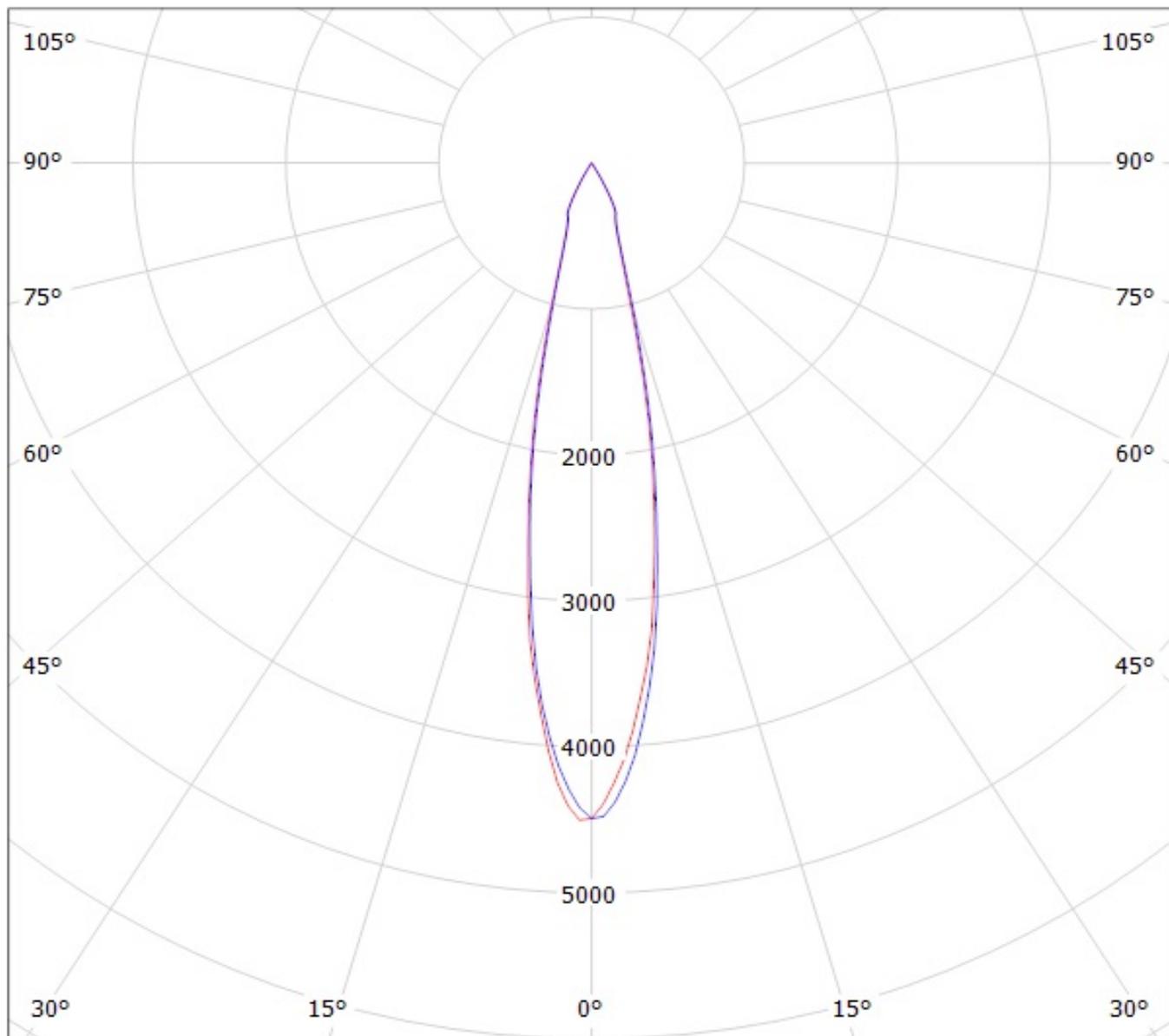
cd/klm

— C0 - C180

— C90 - C270

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Lamps: 1 x Luxeon CoB 1208 (LHC1-3080-1208) 1065lm@250mA CCT=3000K P=8.3W I=250mA

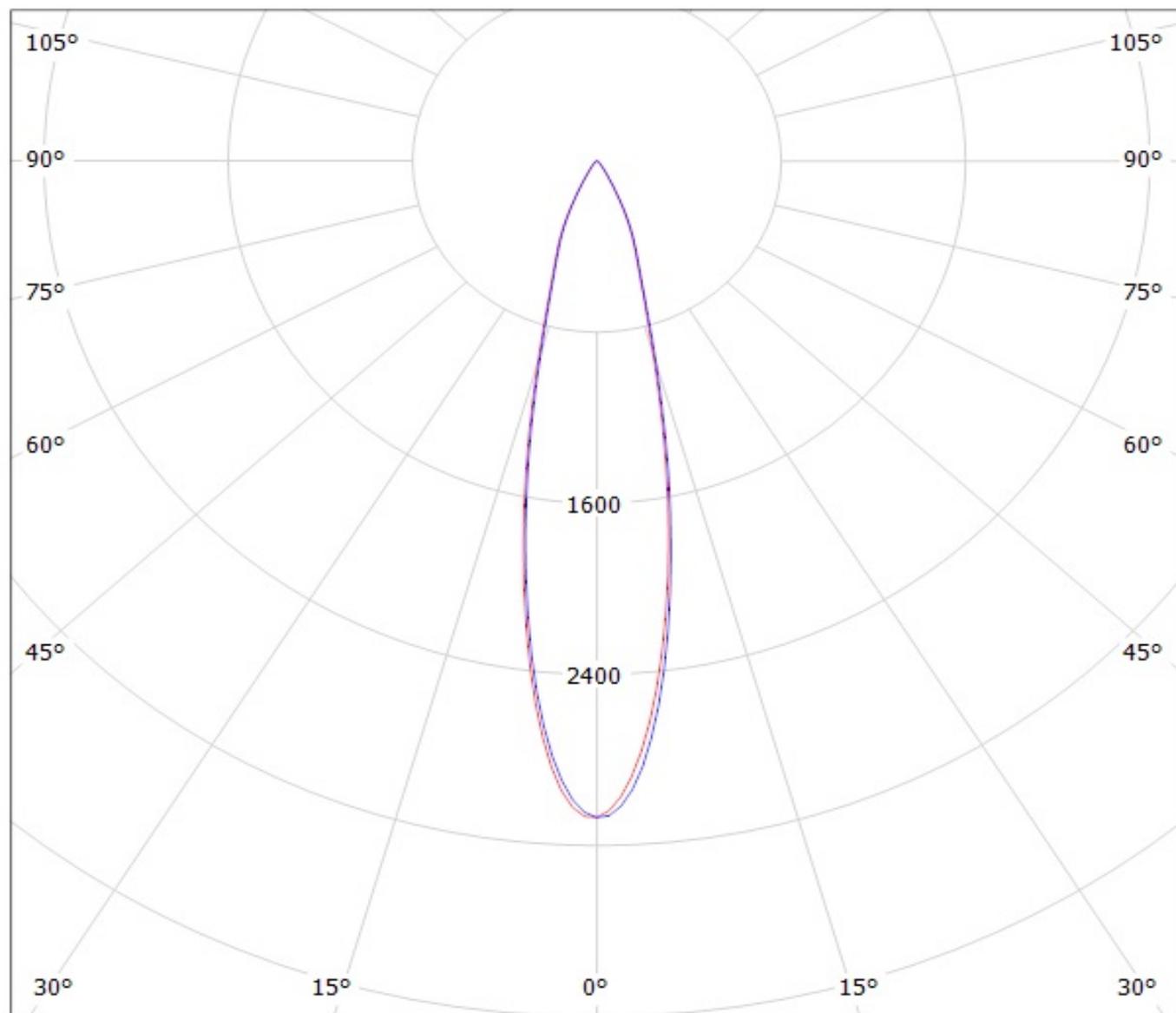


cd/klm

— C0 - C180

— C90 - C270

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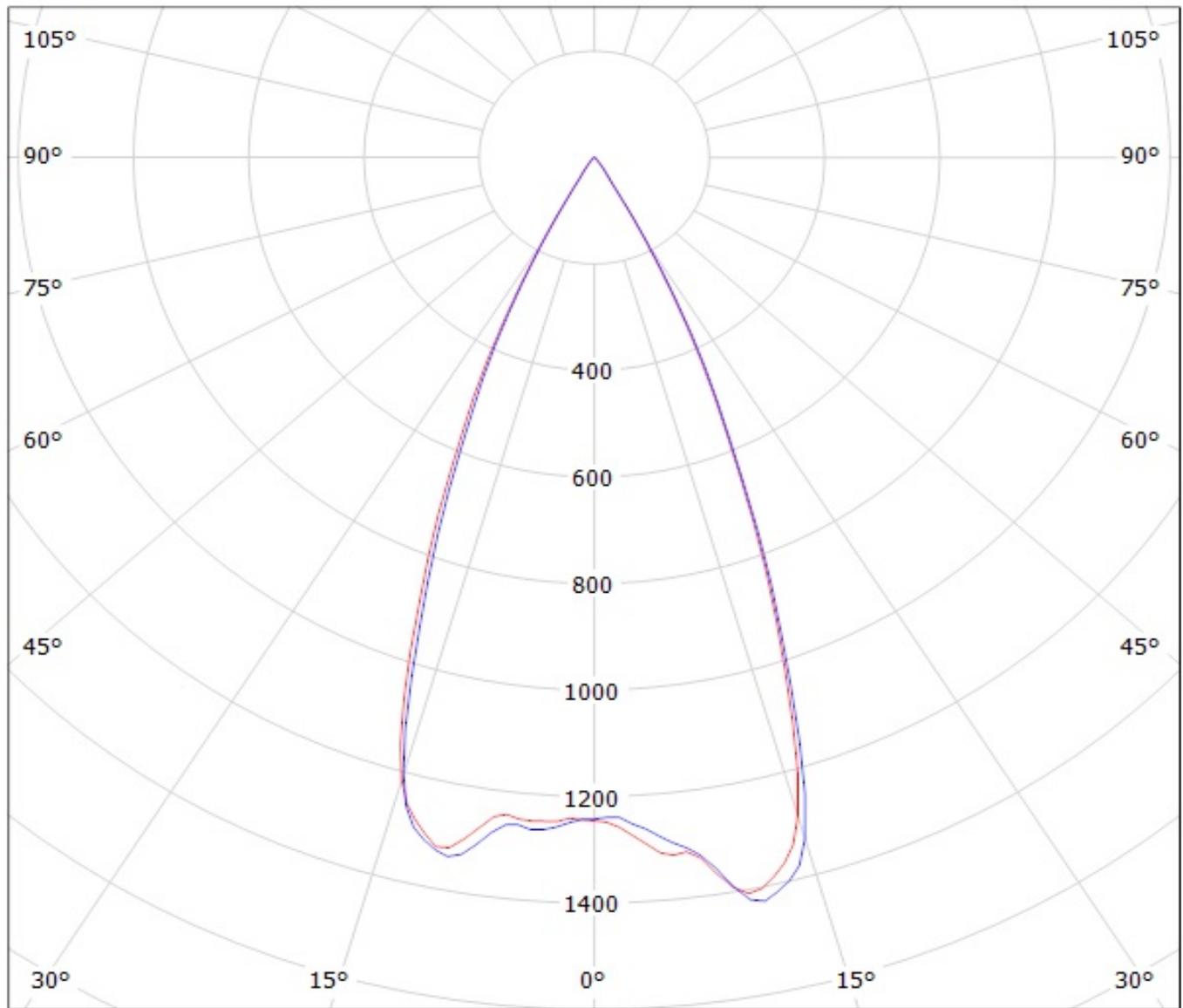
cd/klm

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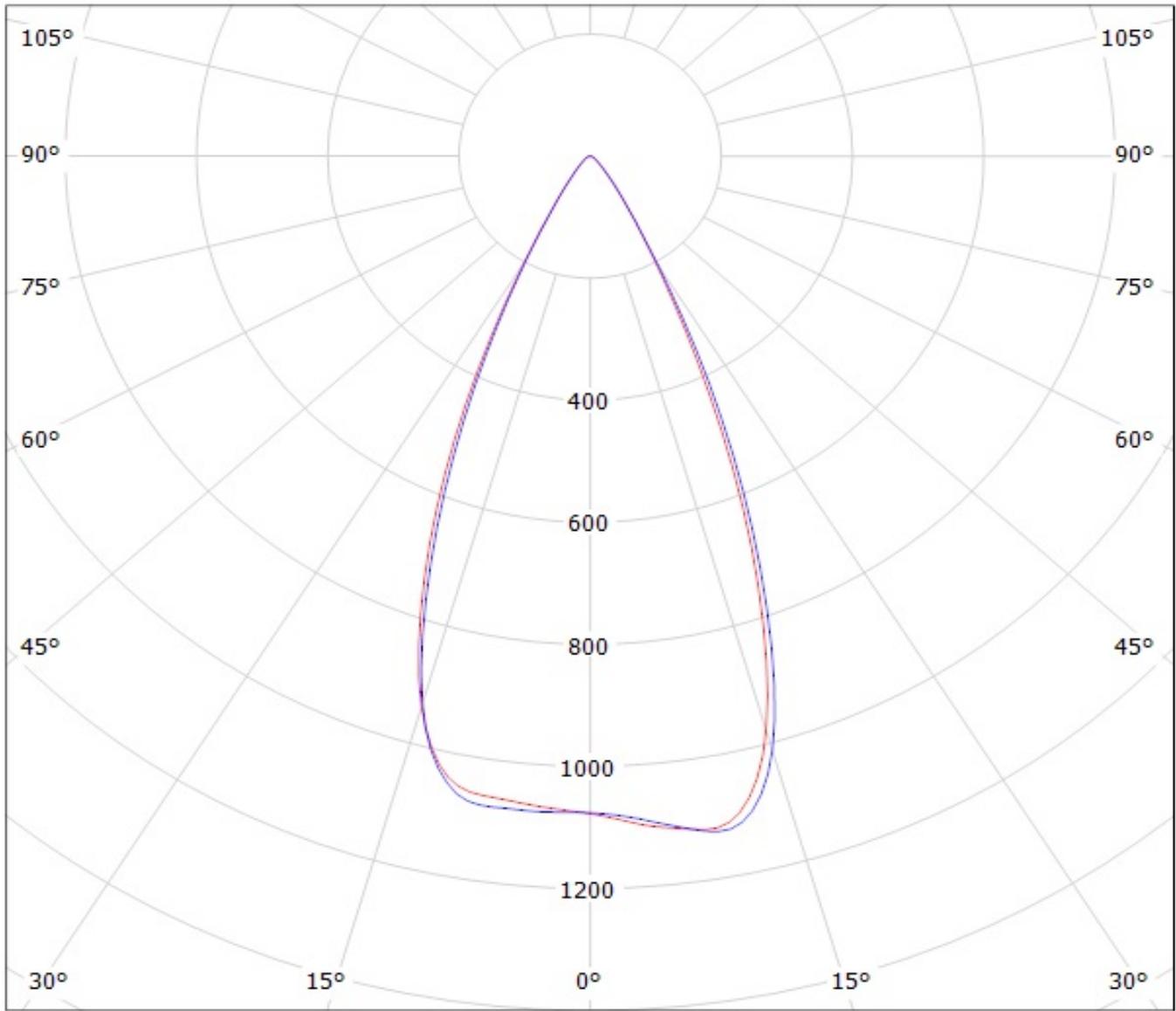


cd/klm

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cd/klm

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