

**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 CN13457_LENA-X-WAS-DL

Family	Lena
Type	RefPack
LED	LUXEON CoB 1208
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) 82 %
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 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	FWHM	12 degrees
Type	RefPack	Efficiency	84 %
LED	LUXEON CoB 1208	cd/Im	9.900
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	14 degrees
Type	RefPack	Efficiency	78 %
LED	LUXEON CoB 1208	cd/Im	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/Im	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/Im	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/Im	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/Im	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.



PRODUCT DATASHEET

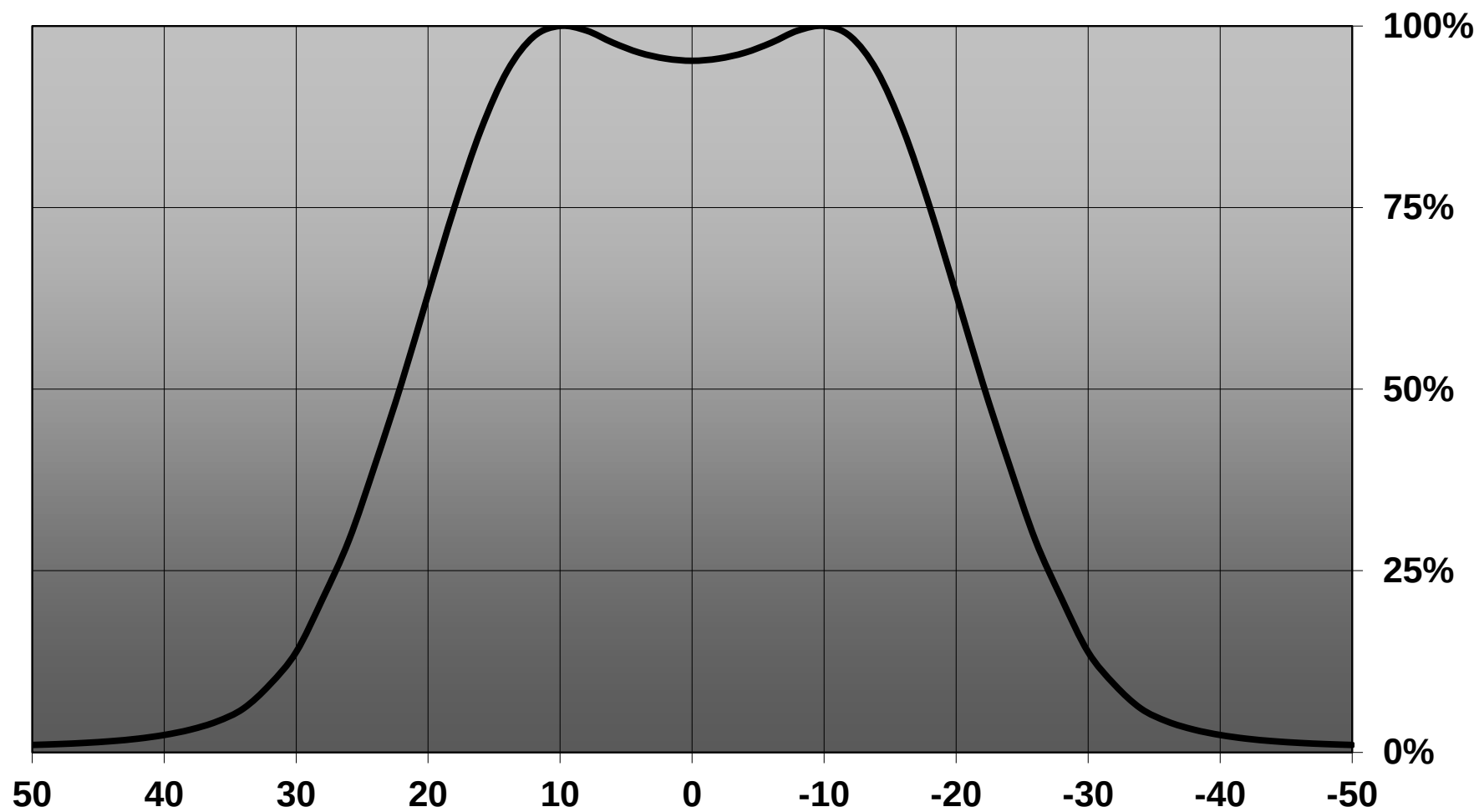
Lena series

last update 23/2/2014

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).

Relative intensity of CA12298_Lena-W-DL-MEZ



D

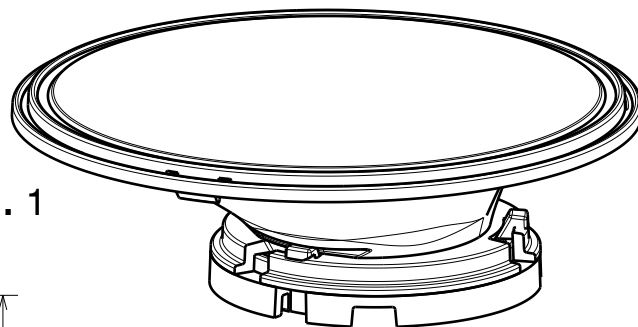
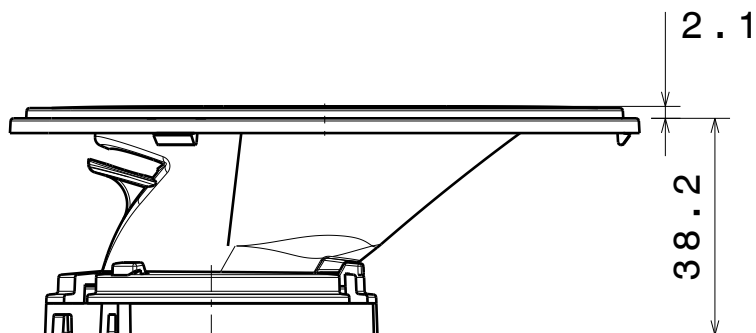
C

B

A

4

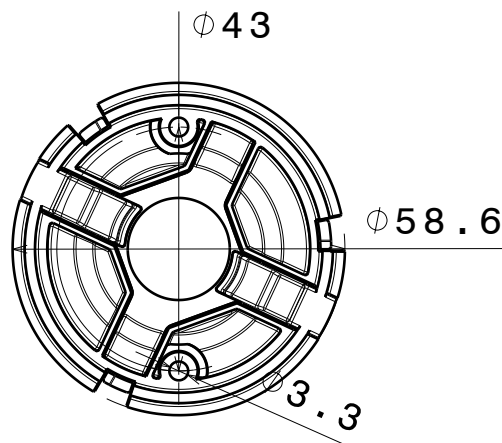
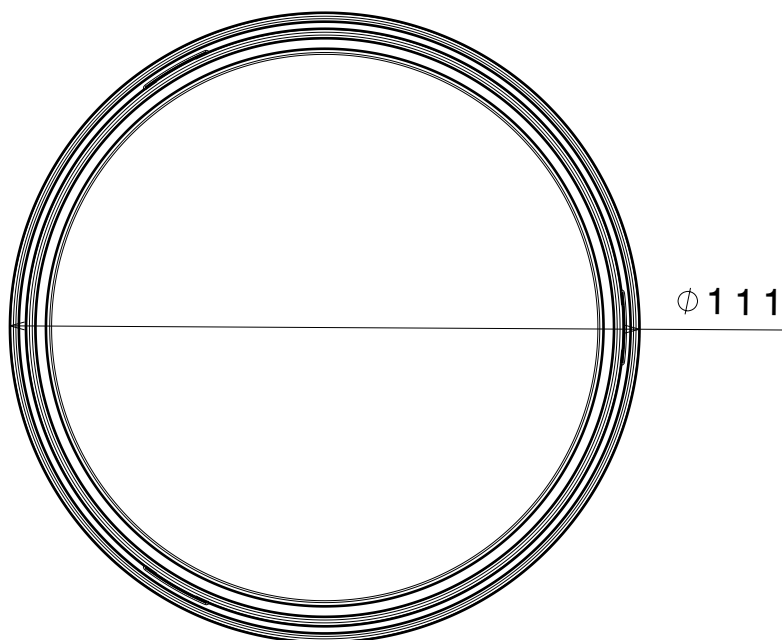
4



Isometric view

3

3



2

2

Materials

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

Reflector: PC
Base part: PC
Sublens: PC

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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

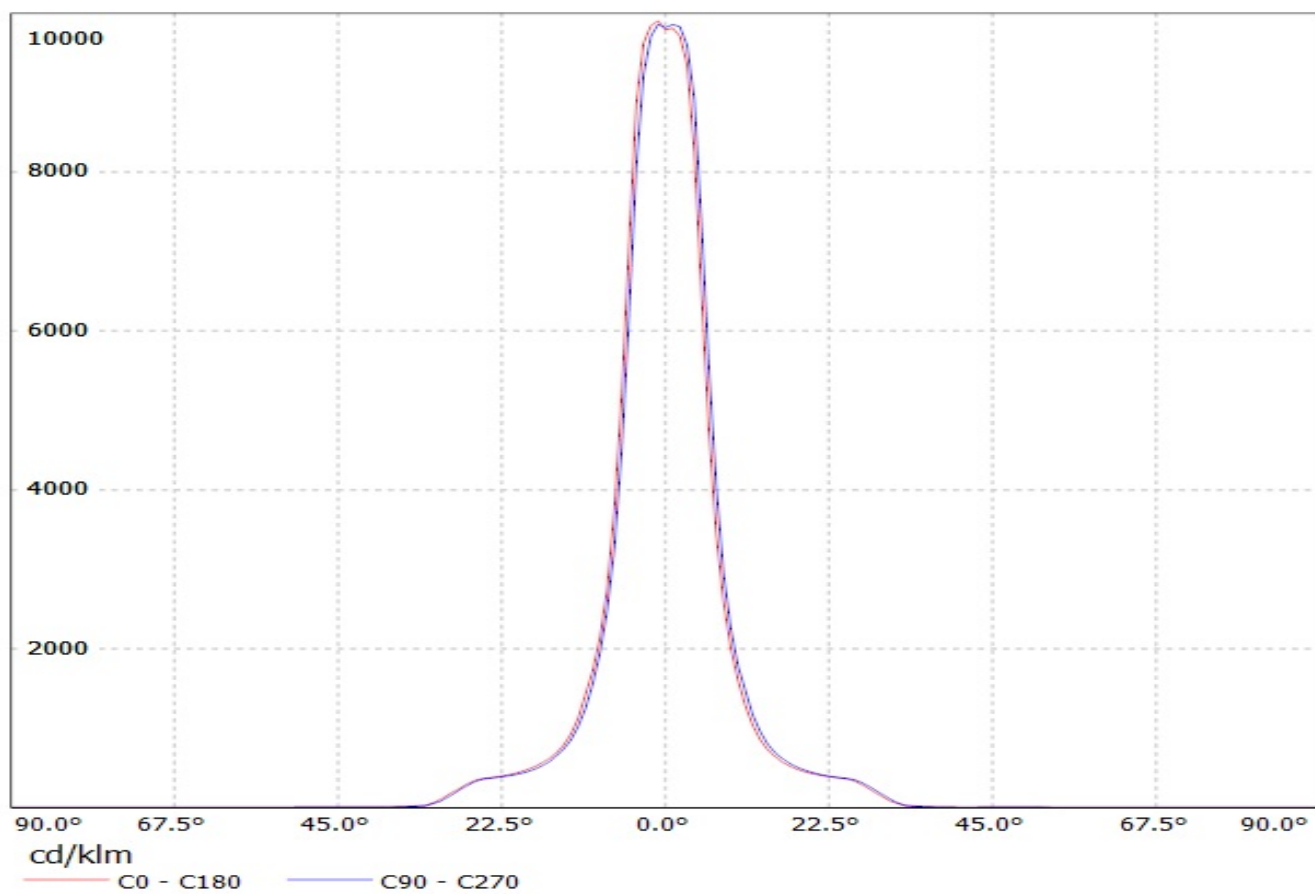
D

A

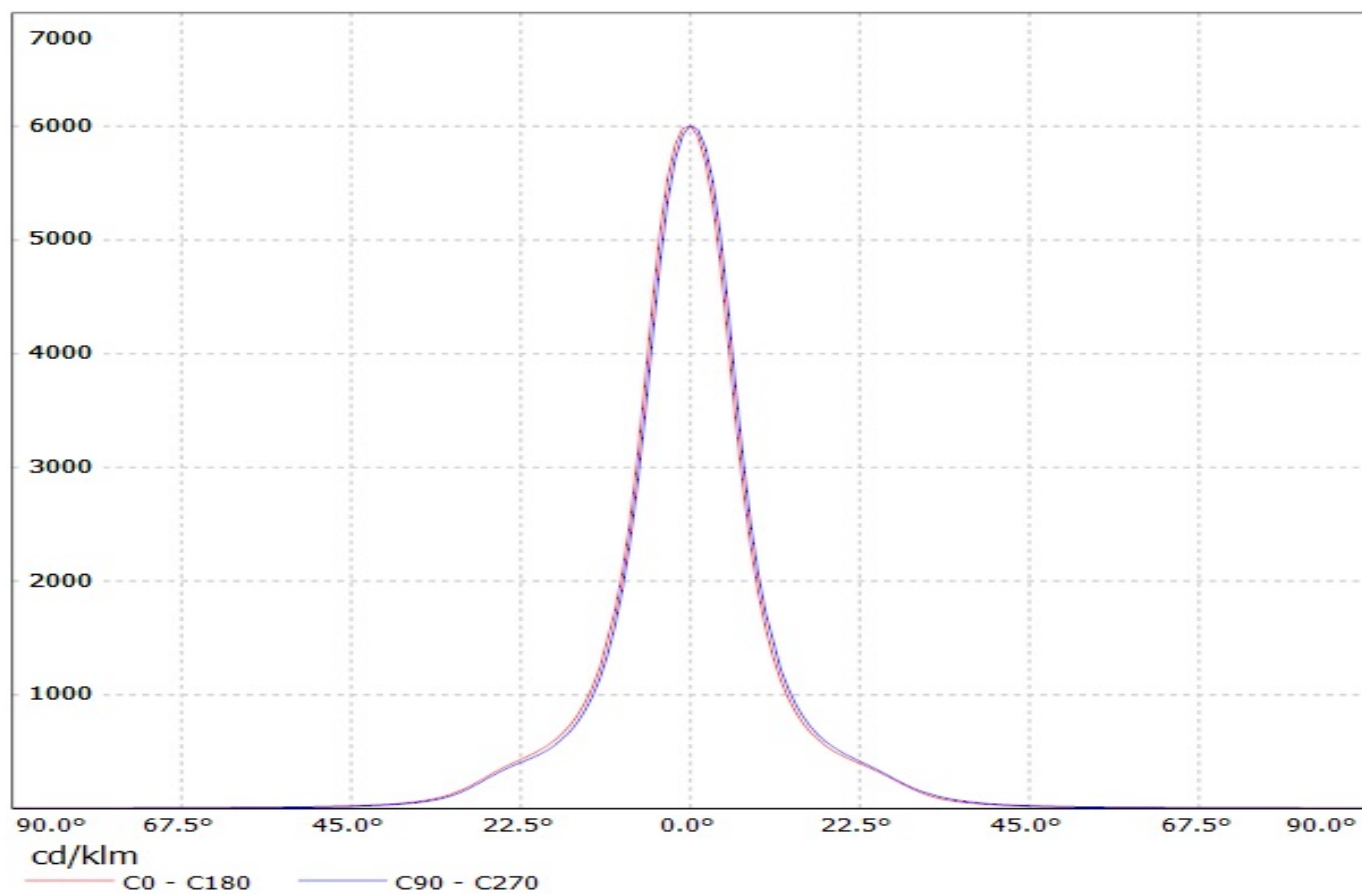
1

1

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

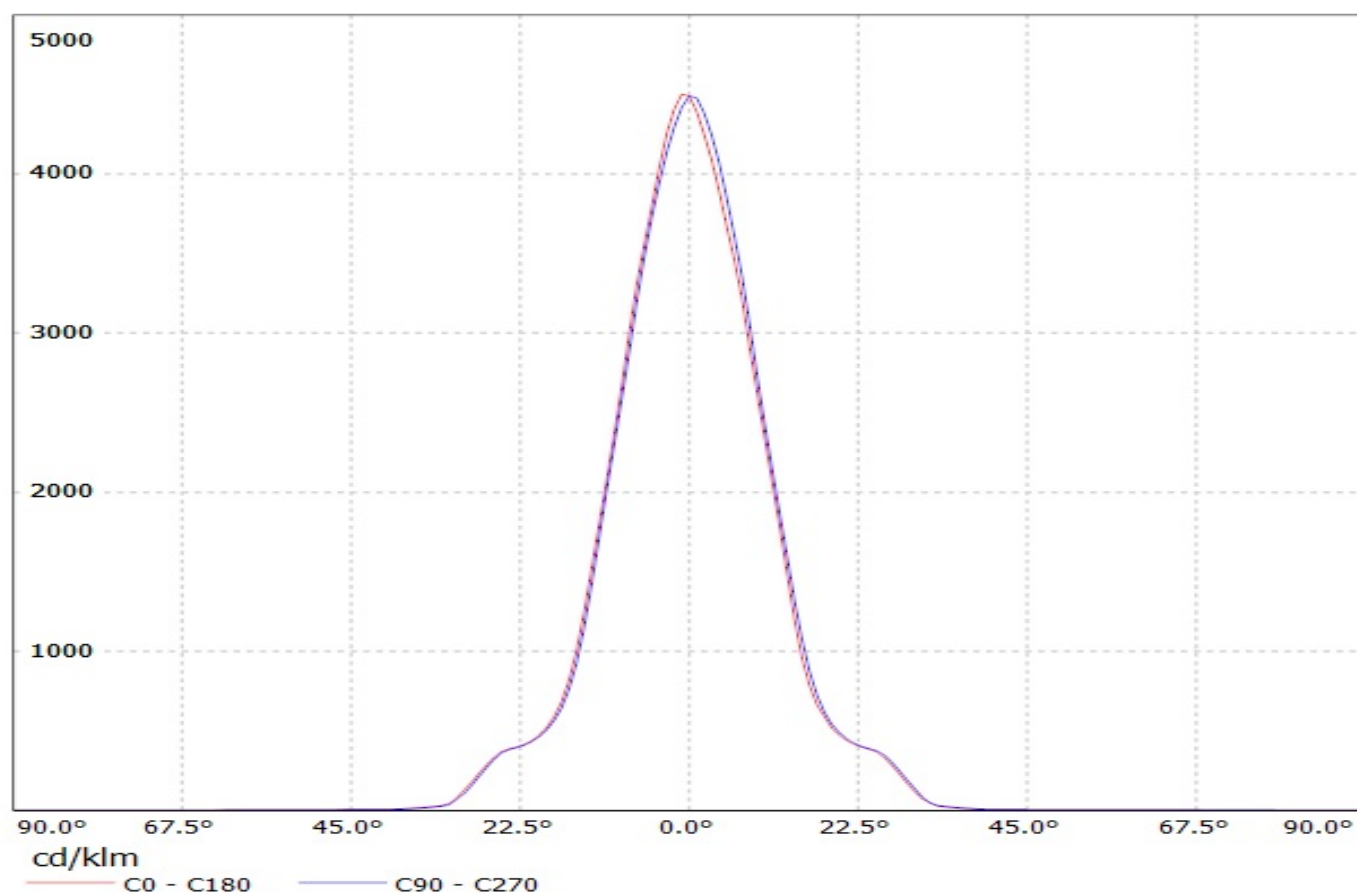


Luminaire: LEDiL Oy CN12296_LENA-S-DL_(Luxeon-Cob-1208) Eff: 78 %
Lamps: 1 x Luxeon CoB 1208 (LHC1-3080-1208) 1065lm@250mA CCT=3000K P=8.3W I=250mA

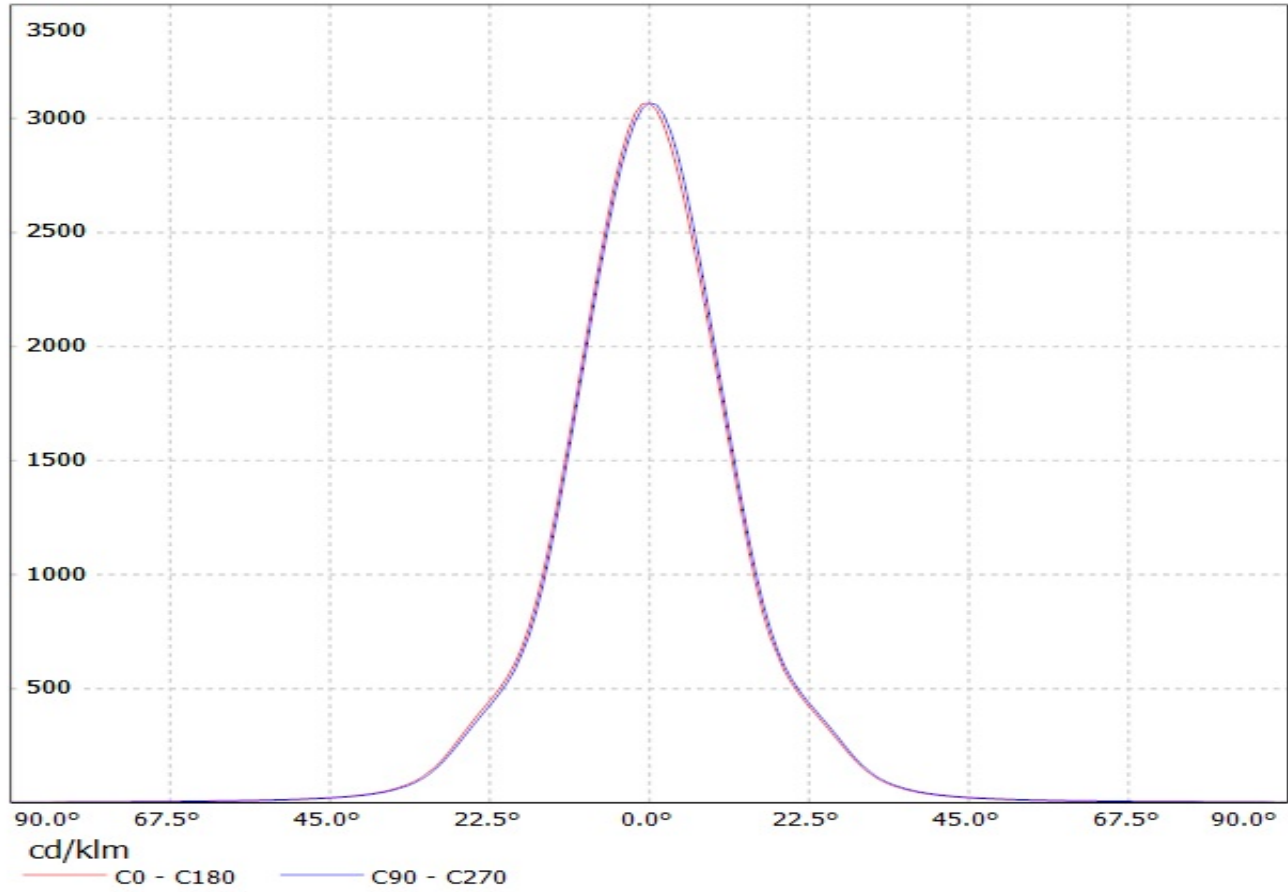


Luminaire: LEDiL Oy CN12294_LENA-M_(Luxeon_CoB_1208) Eff: 80 %

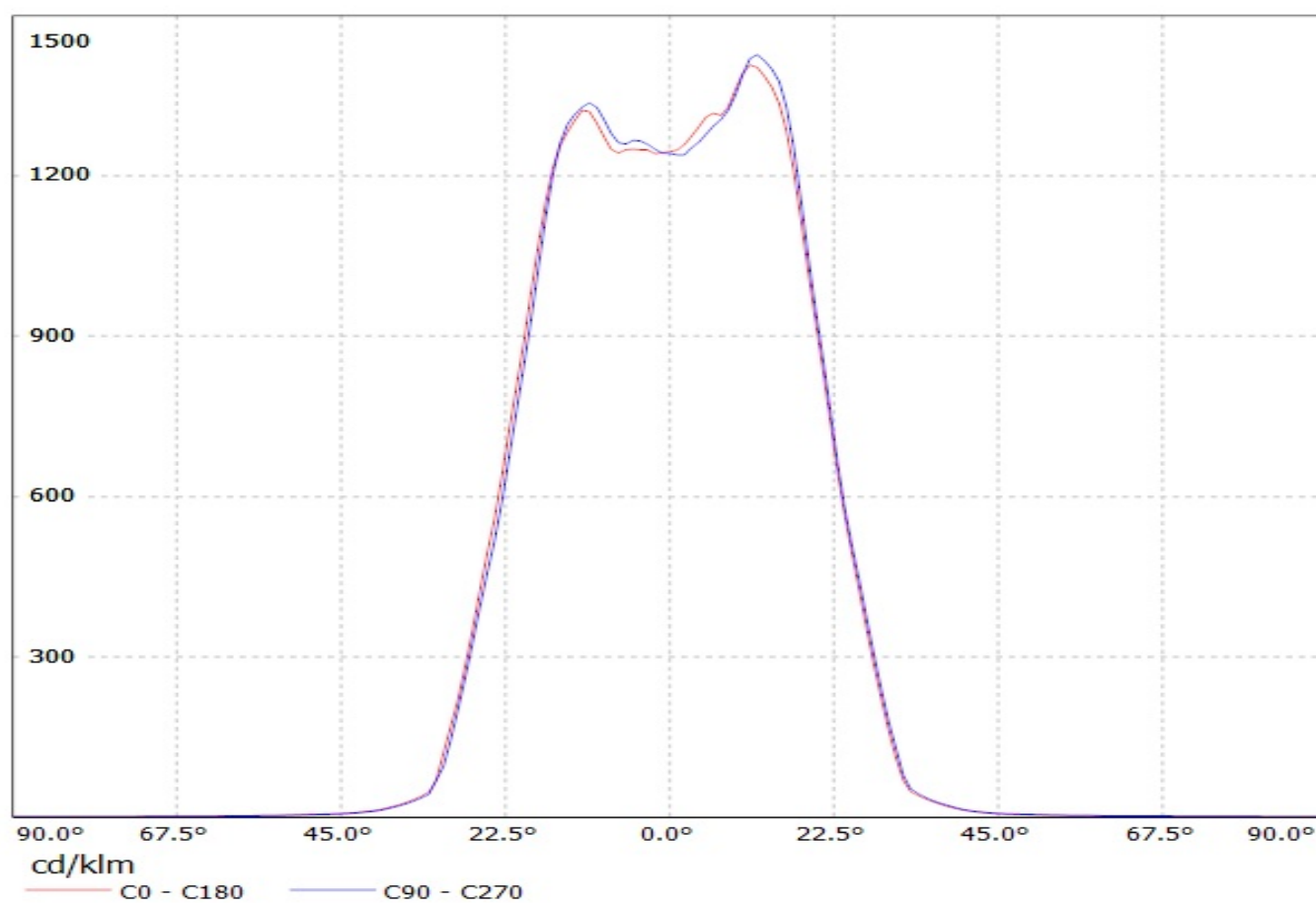
Lamps: 1 x Luxeon CoB 1208 (LHC1-3080-1208) 1065lm@250mA CCT=3000K P=8.3W I=250mA



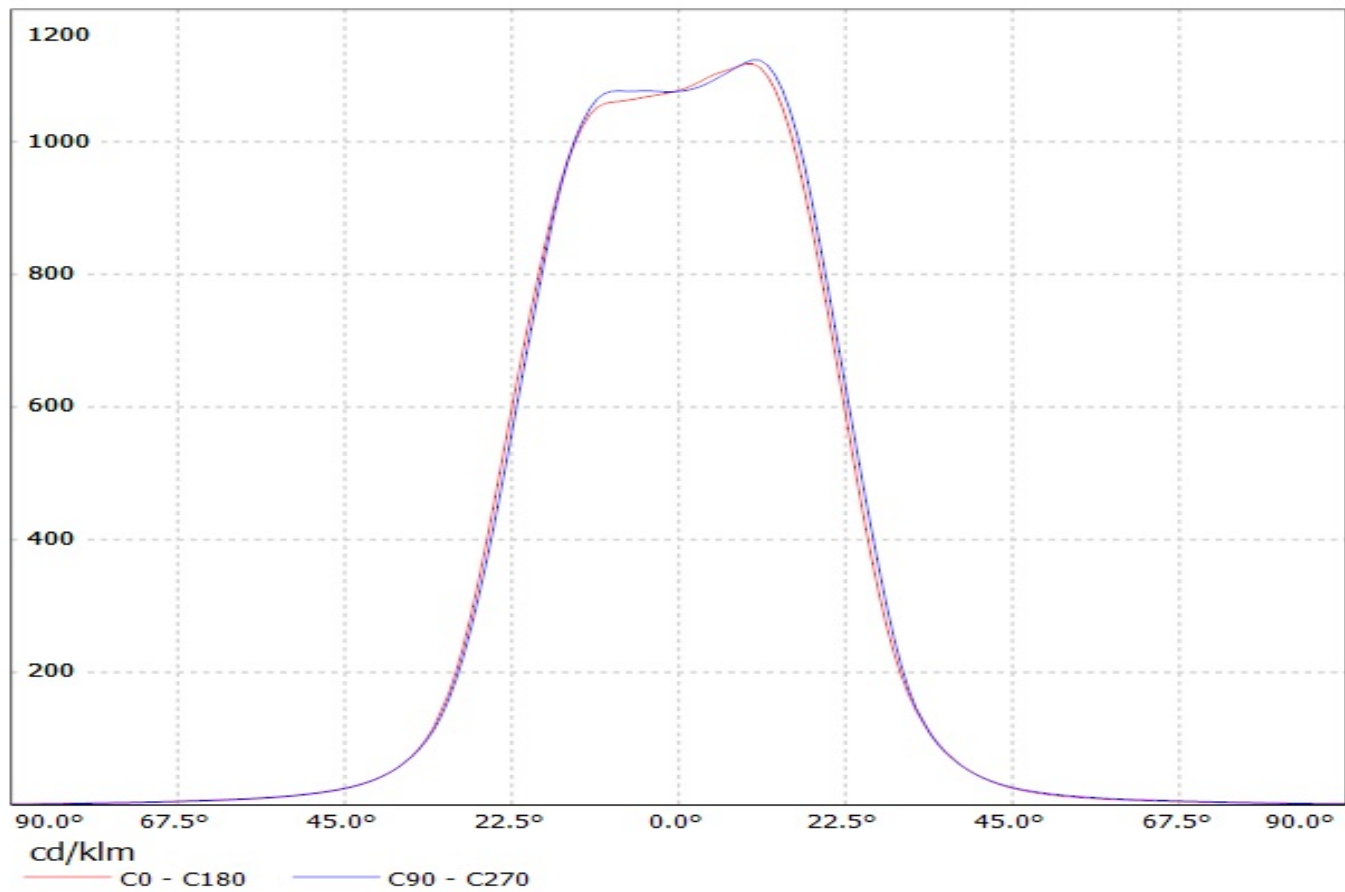
Luminaire: LEDiL Oy CN12297_LENA-M-DL_(Luxeon_CoB_1208) Eff: 74 %
Lamps: 1 x Luxeon CoB 1208 (LHC1-3080-1208) 1065lm@250mA CCT=3000K P=8.3W I=250mA



Luminaire: LEDiL Oy CN12295_LENA-W_(Luxeon_CoB_1208) Eff: 73 %
Lamps: 1 x Luxeon CoB 1208 (LHC1-3080-1208) 1065lm@250mA CCT=3000K P=8.3W I=250mA

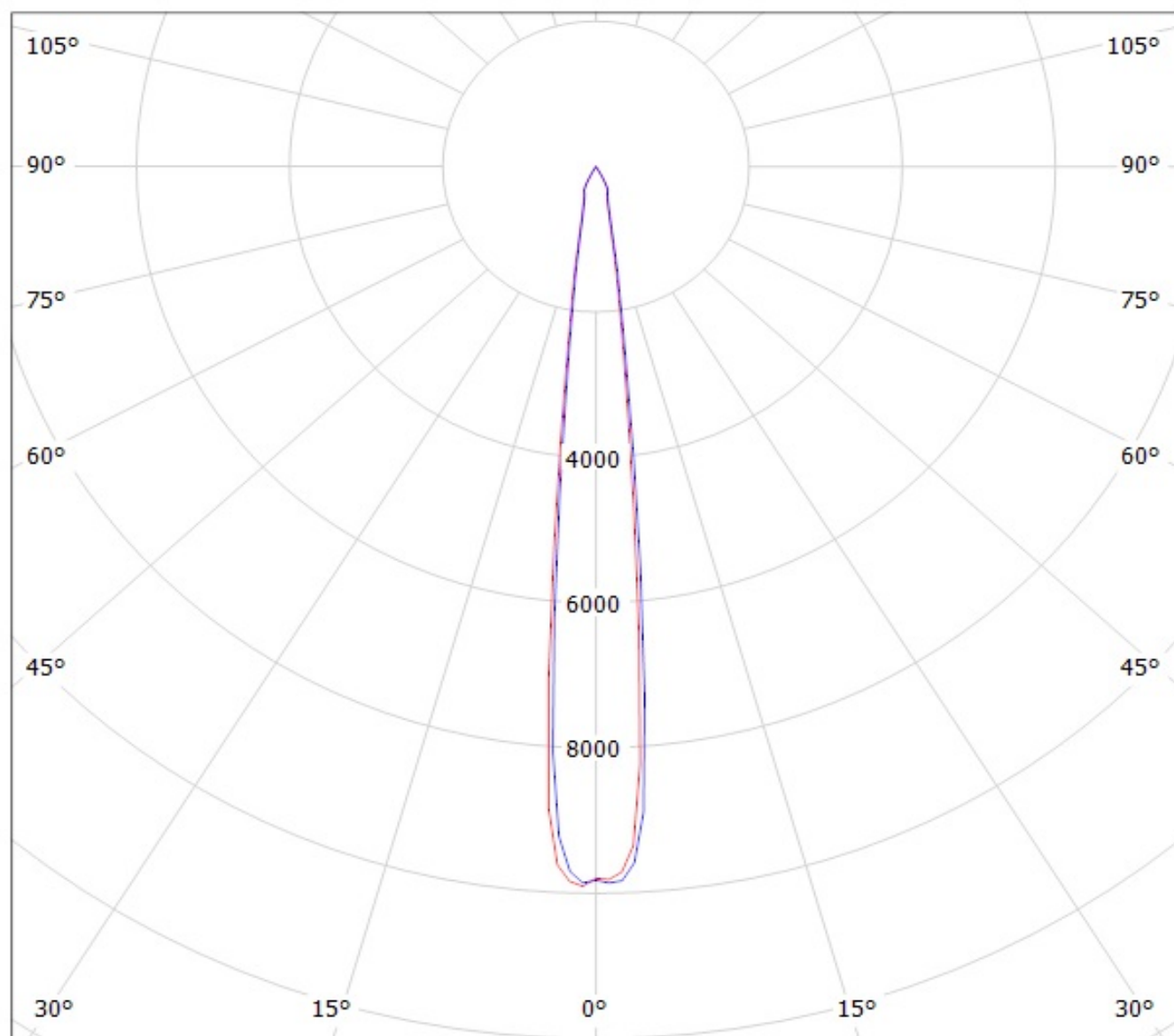


Luminaire: LEDiL Oy CN12298_LENA-W-DL_(Luxeon_CoB_1208) Eff: 68 %
Lamps: 1 x Luxeon CoB 1208 (LHC1-3080-1208) 1065lm@250mA CCT=3000K P=8.3W I=250mA



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

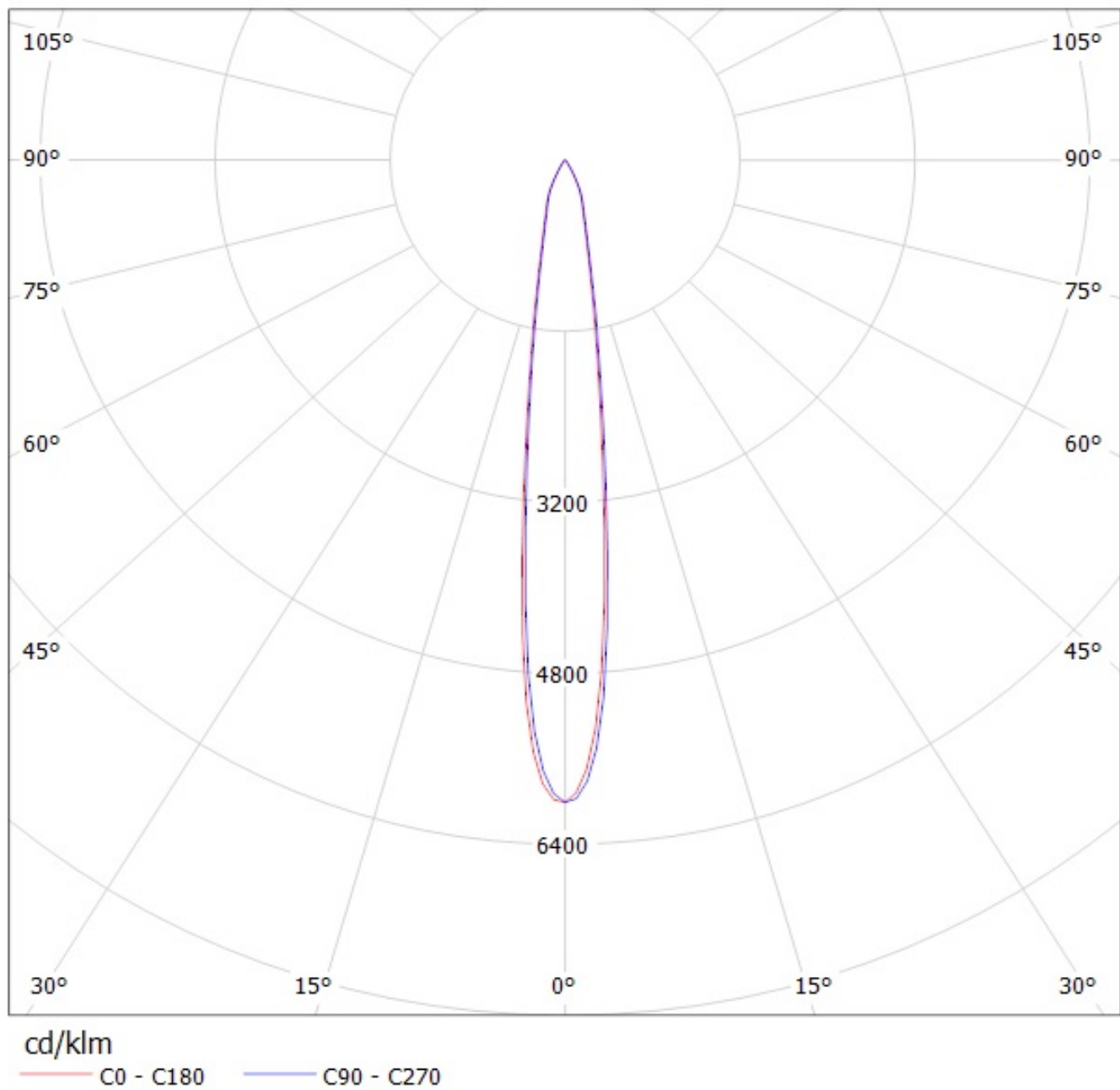


cd/klm

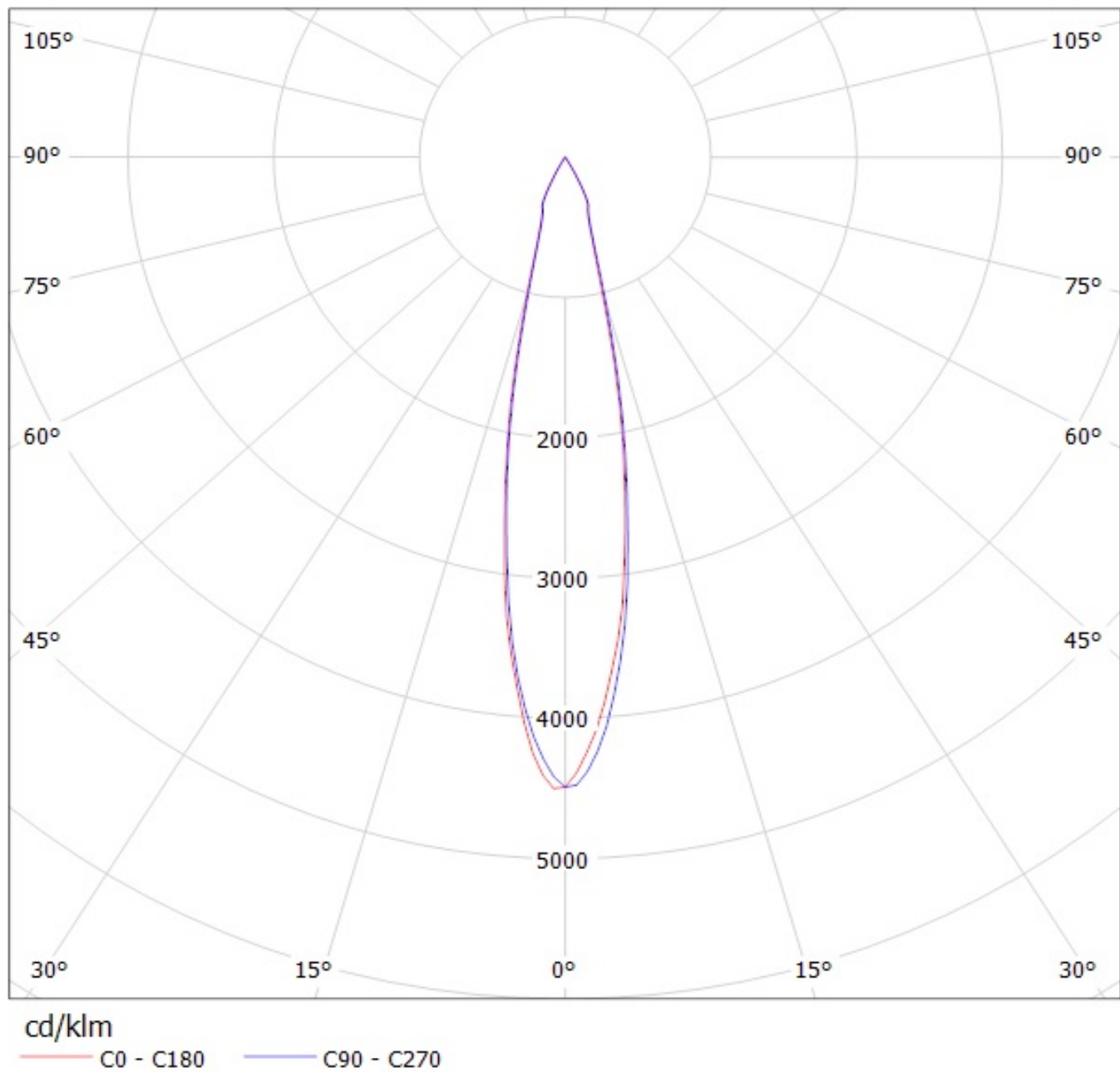
— C0 - C180

— C90 - C270

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

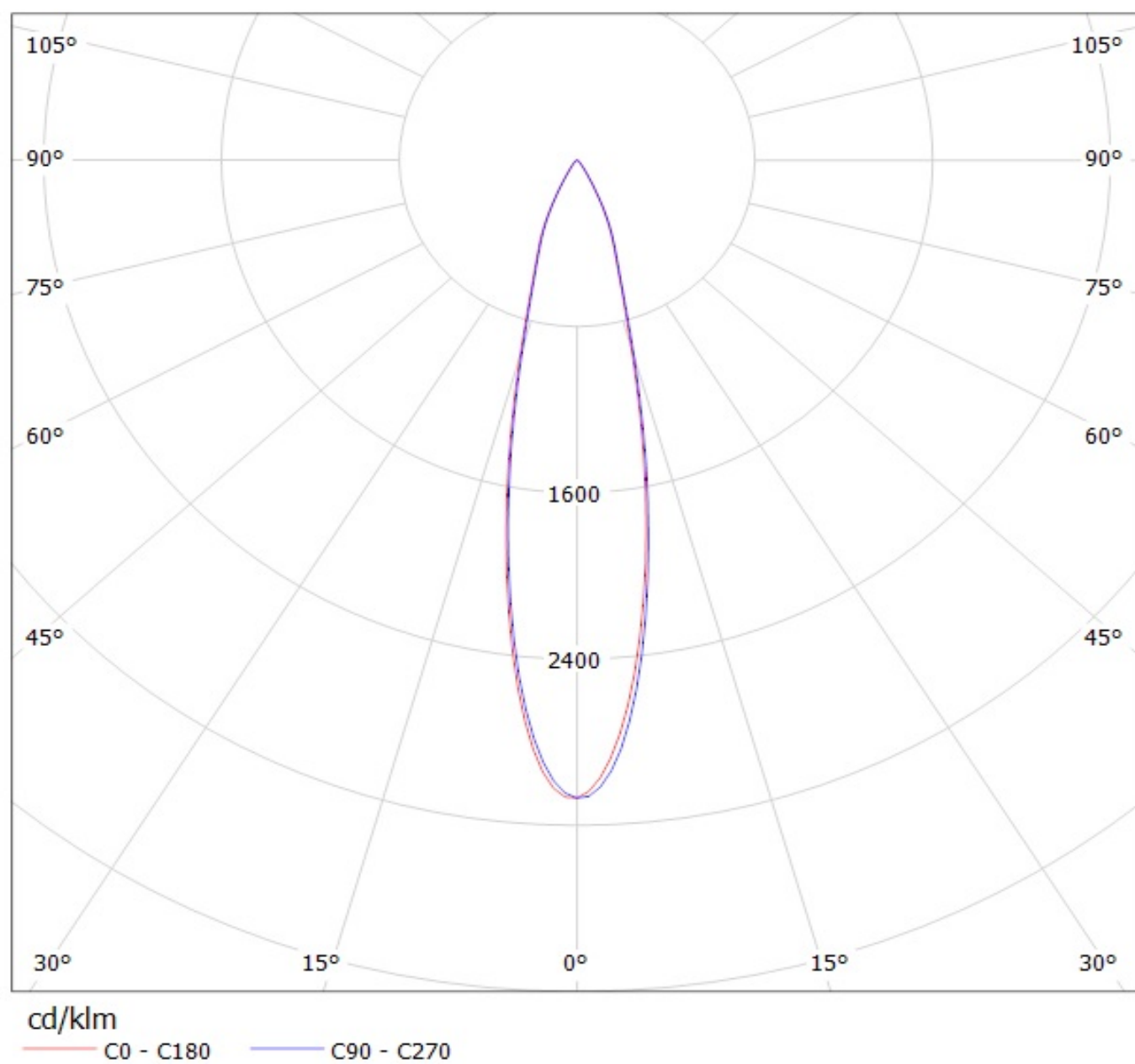


Luminaire: LEDiL Oy CN12294_LENA-M_(Luxeon_CoB_1208) Eff: 80 %
Lamps: 1 x Luxeon CoB 1208 (LHC1-3080-1208) 1065lm@250mA CCT=3000K P=8.3W I=250mA

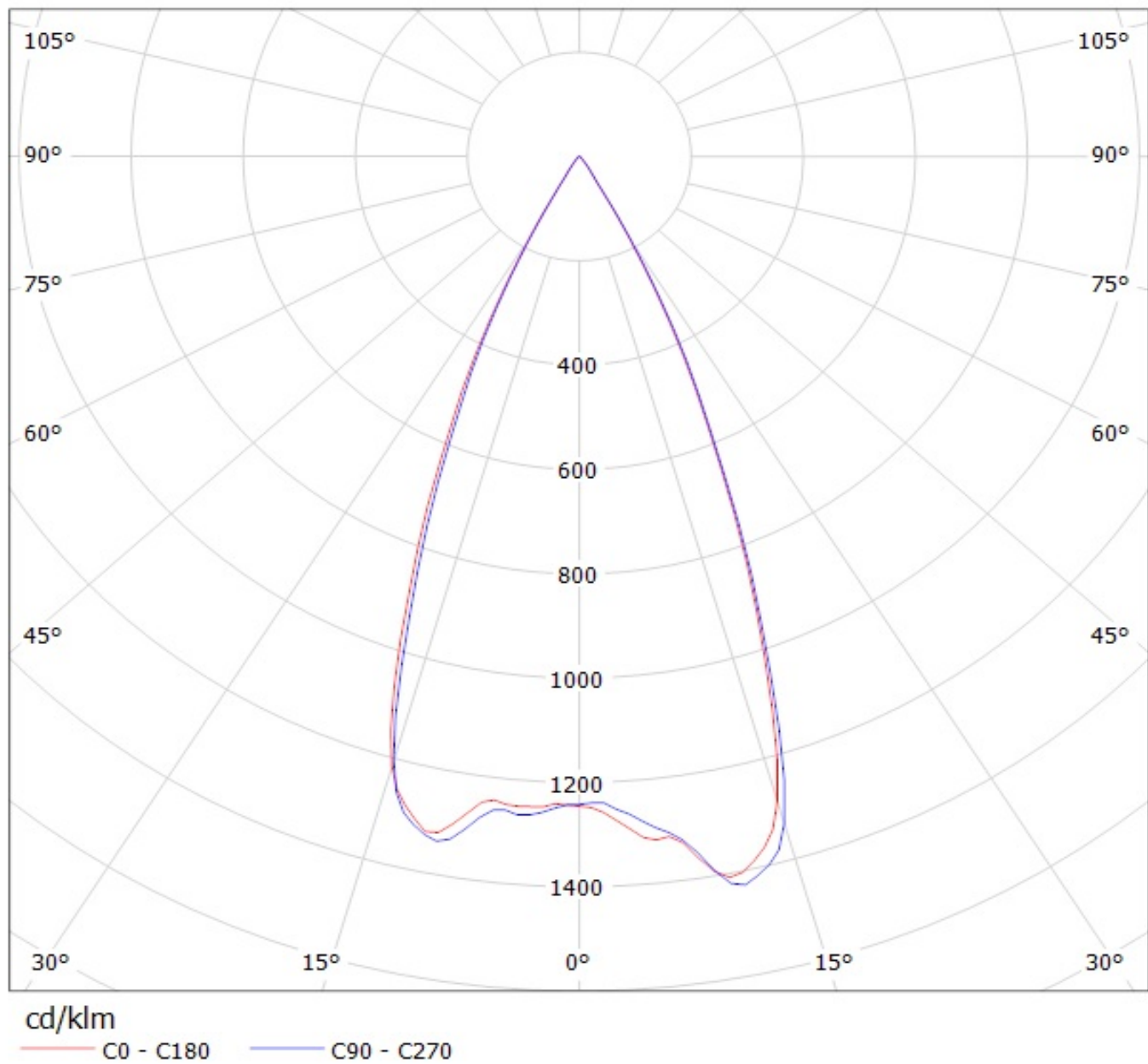


Luminaire: LEDiL Oy CN12297_LENA-M-DL_(Luxeon_CoB_1208) Eff: 74 %

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

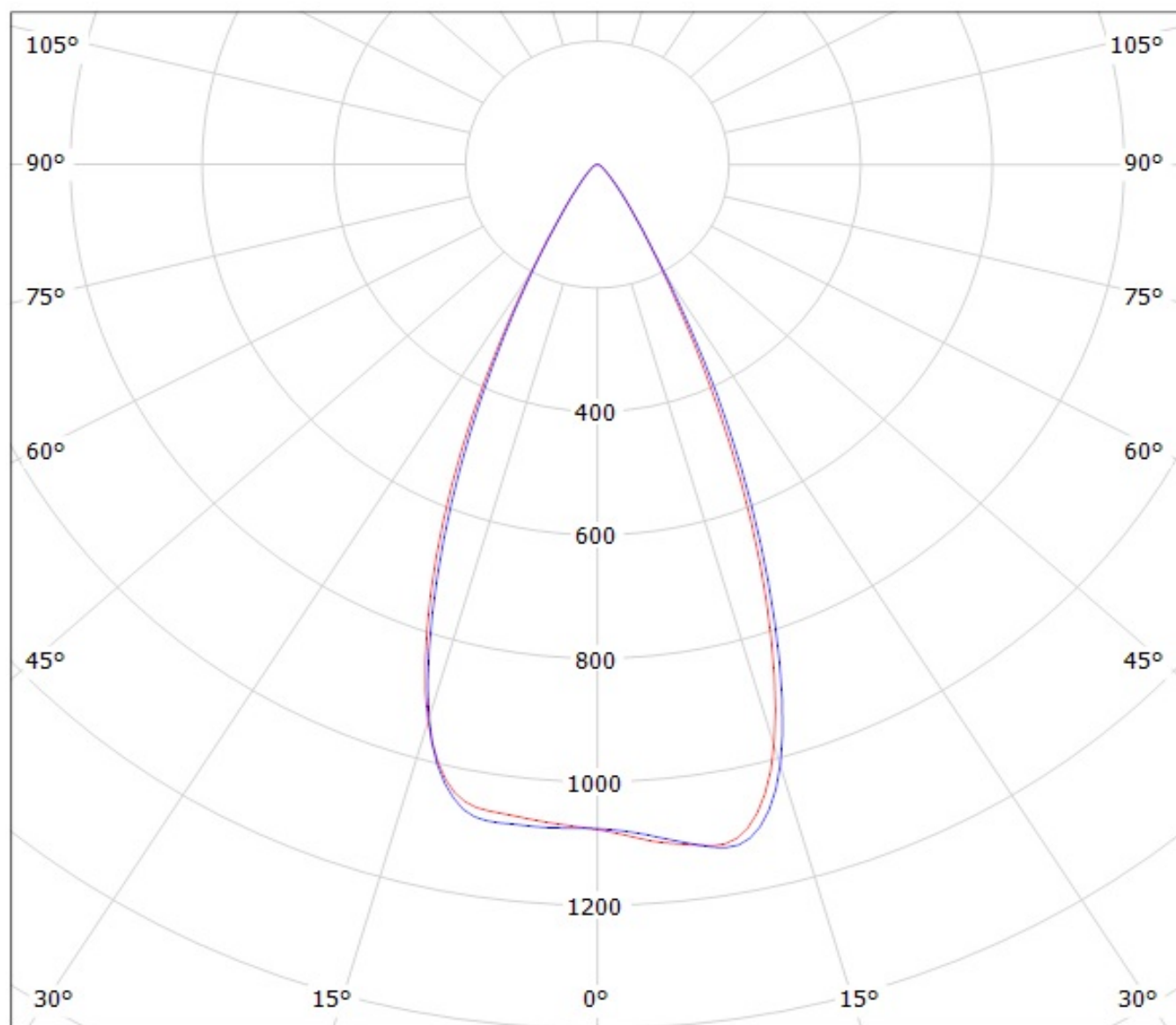


Luminaire: LEDiL Oy CN12295_LENA-W_(Luxeon_CoB_1208) Eff: 73 %
Lamps: 1 x Luxeon CoB 1208 (LHC1-3080-1208) 1065lm@250mA CCT=3000K P=8.3W I=250mA



Luminaire: LEDiL Oy CN12298_LENA-W-DL_(Luxeon_CoB_1208) Eff: 68 %

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



cd/klm

— C0 - C180

— C90 - C270