

**Product number C13658_CLAMP-VERO13-18**

Family	ANGELA	FWHM	N/A degrees
Type	Base part	Efficiency	-
LED	VERO18	cd/lm	-
Color	White	Gerber File	Available
Diameter	50 mm		
Height	9.25 mm		
Style	Round		
Optic Material	-		
Holder Material	PC		
Fastening	["screw"]		
Status	Production ready		

Product number FCN13705_ANGELA-S

Family	ANGELA	FWHM	12 degrees
Type	RefPack	Efficiency	93 %
LED	VERO18	cd/lm	11.000
Color	Metal	Gerber File	Available
Diameter	119.5 mm		
Height	79.31 mm		
Style	Round		
Optic Material	-		
Holder Material	-		
Fastening	""		
Status	Production ready		

Product number FCN13706_ANGELA-M

Family	ANGELA	FWHM	19 degrees
Type	RefPack	Efficiency	85 %
LED	VERO18	cd/lm	3.000
Color	Metal	Gerber File	Available
Diameter	119.5 mm		
Height	79.31 mm		
Style	Round		
Optic Material	-		
Holder Material	-		
Fastening	""		
Status	Production ready		

Product number FCN13707_ANGELA-W

Family	ANGELA	FWHM	38 degrees
Type	RefPack	Efficiency	84 %
LED	VERO18	cd/lm	1.500
Color	Metal	Gerber File	Available
Diameter	119.5 mm		
Height	79.31 mm		
Style	Round		
Optic Material	-		
Holder Material	-		
Fastening	""		
Status	Production ready		

For Bridgelux Vero18 LEDiL clamp C13658 included

PRODUCT DATASHEET
ANGELA series

last update 3/11/2016

**Product number** FCN14690_ANGELA-XW

Family	ANGELA	FWHM	72 degrees
Type	RefPack	Efficiency	93 %
LED	VERO18	cd/lm	0.630
Color	White	Gerber File	Available
Diameter	119.5 mm		
Height	-		
Style	Round		
Optic Material	-		
Holder Material	-		
Fastening	""		
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 ANGELA series

last update 3/11/2016

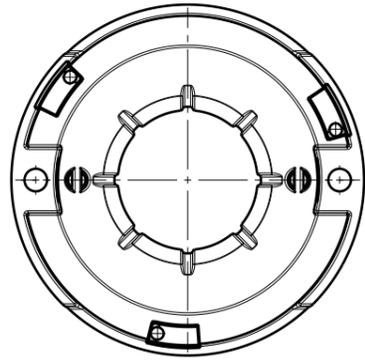
GENERAL INFORMATION

- Product series especially designed & optimized for VERO18 series of LEDs.
- Special care taken to make light distribution as uniform as possible.
- Optic holder molded by high quality PC material (120 degrees of Celcius / 248 degrees of Fahrenheit).

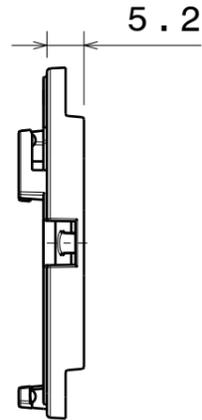
Note! Due to use of high power COB's with this product, special attention to proper thermal design is highly recommended. LEDiL has no liability for direct, indirect or consecutive damages arising from the LEDiL products being used outside of the recommended temperature range.

INDEX	PART NO	DESCRIPTION	MATERIAL
1	C13658	CLAMP-VER013_18	PC WHITE

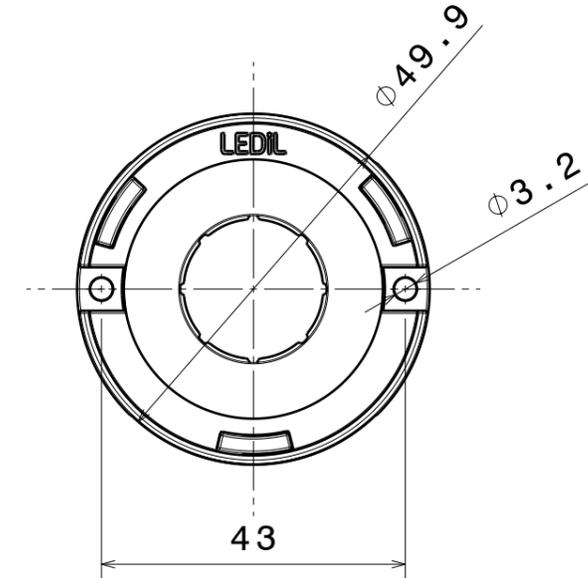
Rear view
Scale: 1:1



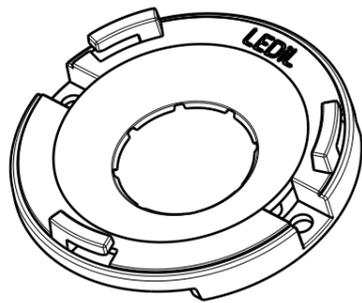
Right view
Scale: 1:1



Front view
Scale: 1:1



Isometric view
Scale: 1:1



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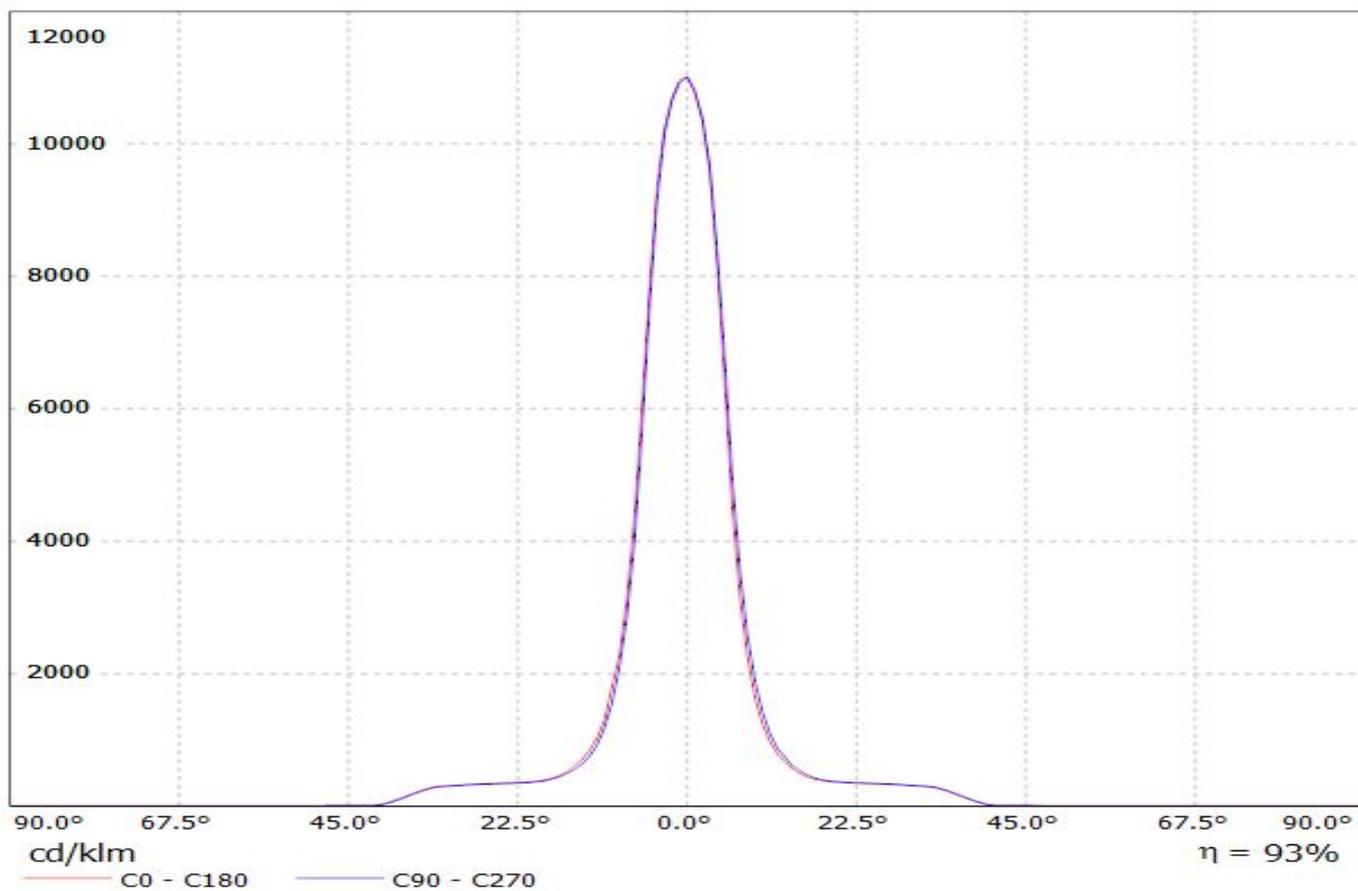


Ledil Oy
Salorankatu 10
FIN 24240 SALO
Finland

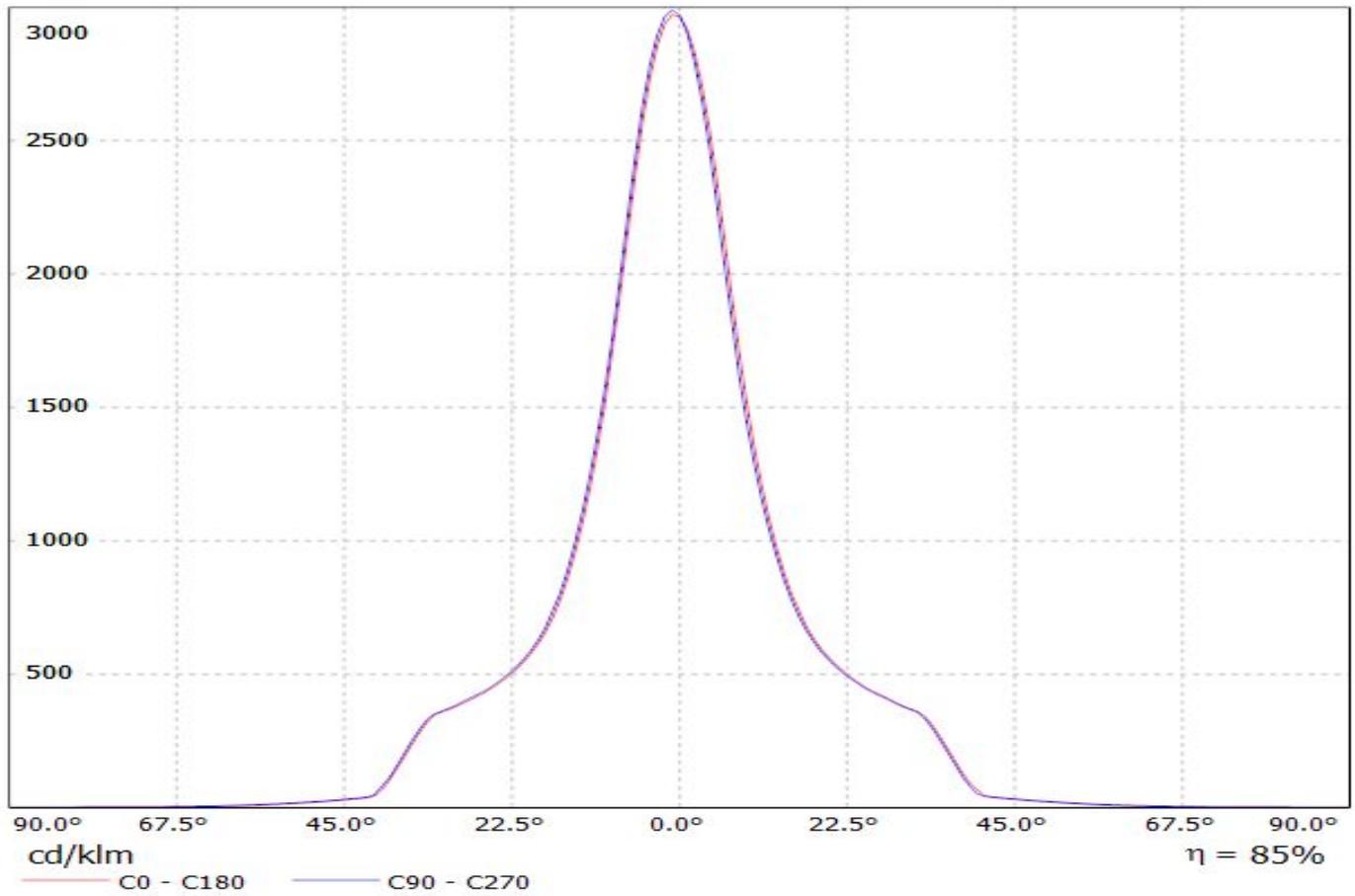
DRAWN BY	DATE
-	27.2.2013
CHECKED BY	DATE
-	-
DESIGNED BY	DATE
PL	-

DRAWING TITLE		Part Drawing	
DATASHEET C13658 CLAMP-VER013 18			
SIZE	PART NUMBER	REV	
A3	C13658	001	
SCALE	1:1	WEIGHT	3,5g
SHEET		1/1	

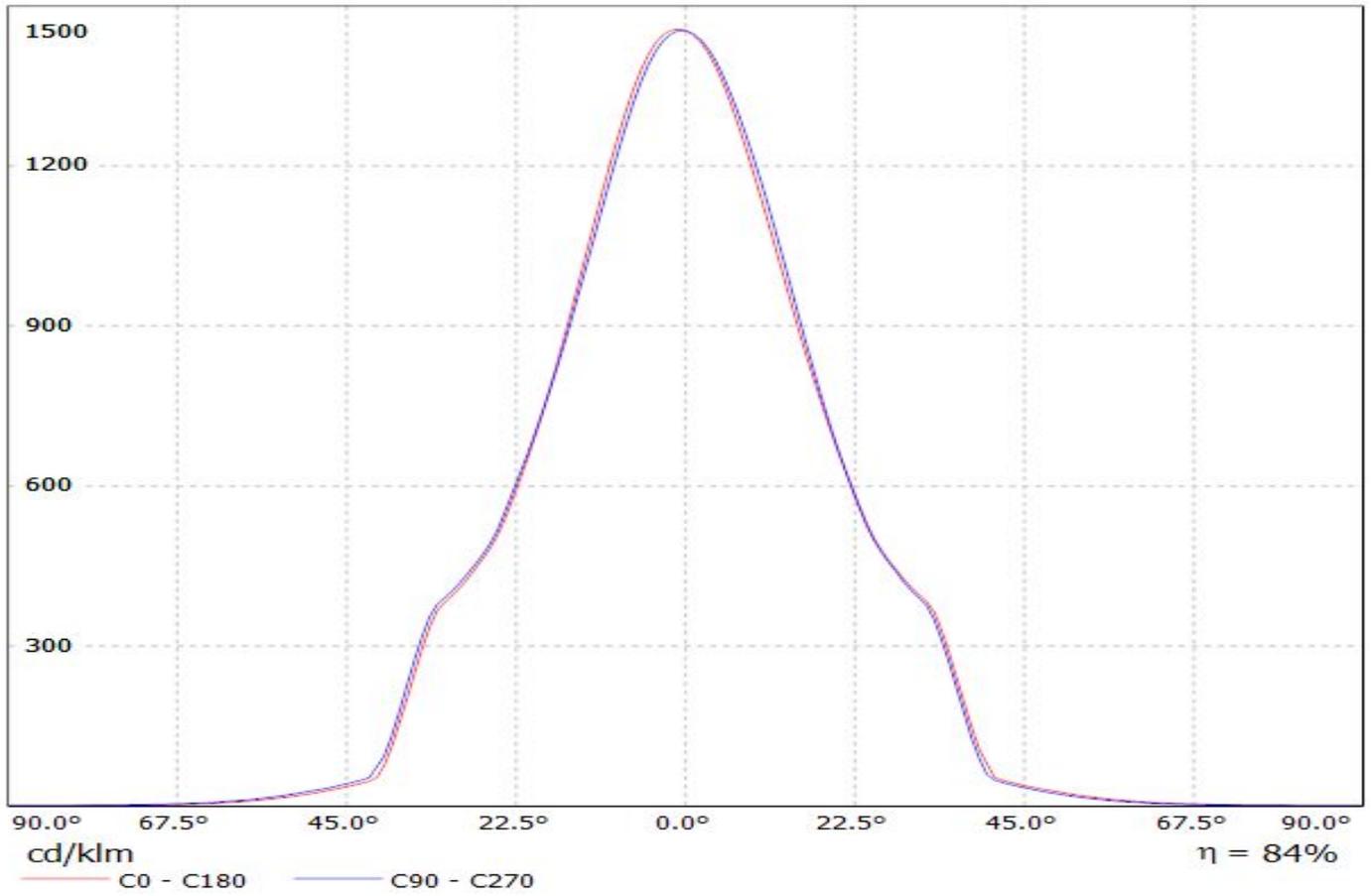
Luminaire: LEDiL Oy FCN13705_ANGELA-S_(VERO18) Eff.93.1%
Lamps: 1 x Bridgelux_VERO18_891.528lm@250mA_P=6.81802W_I=249.9mA



Luminaire: LEDiL Oy FCN13706_ANGELA-M_(Vero18) Eff.85.0%
Lamps: 1 x VERO18_(BXRC30E4000F)_882.261lm@250mA P=6.73161W I=249.8mA

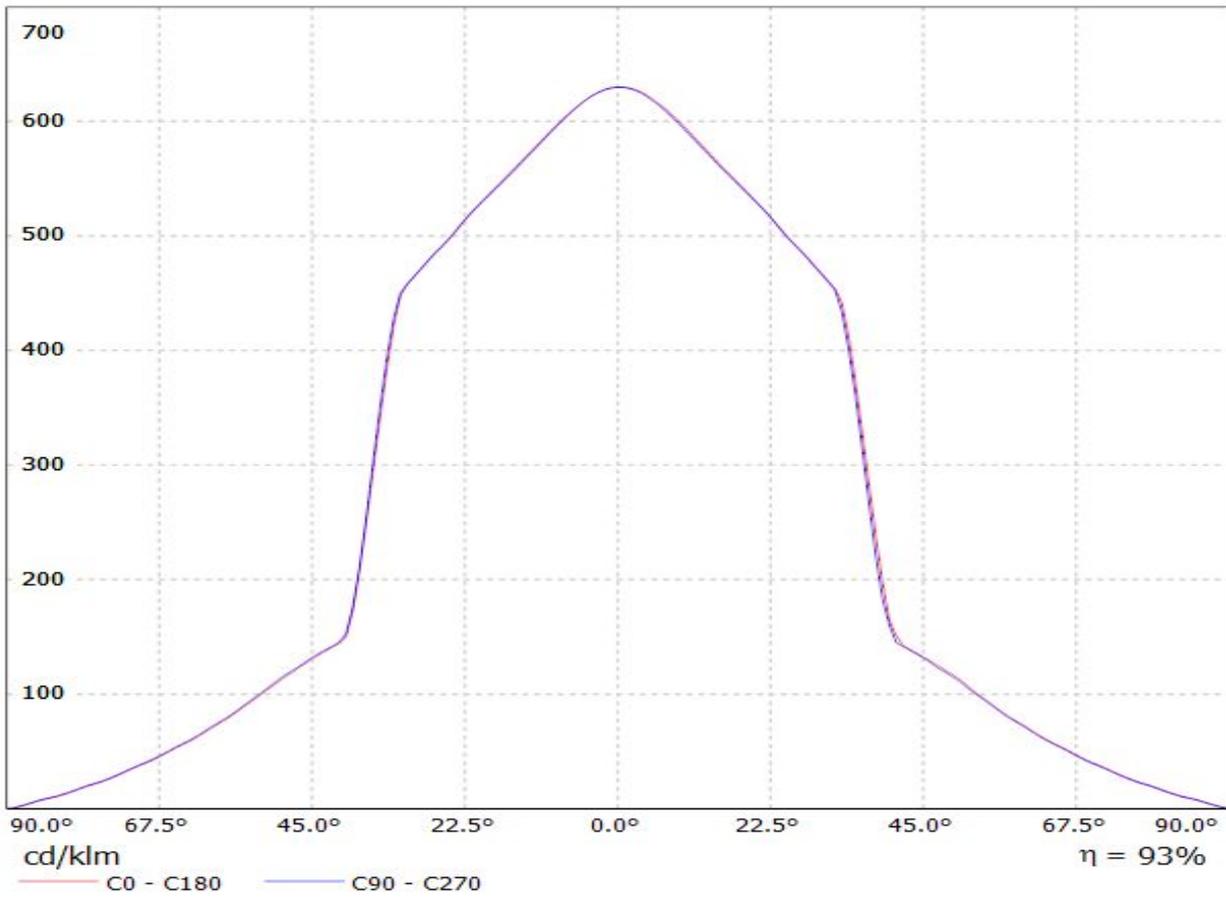


Luminaire: LEDiL Oy FCN13707_ANGELA-W_(Vero18) Eff.83.9%
Lamps: 1 x VERO18_(BXRC30E4000F)_882.261lm@250mA P=6.73161W I=249.8mA

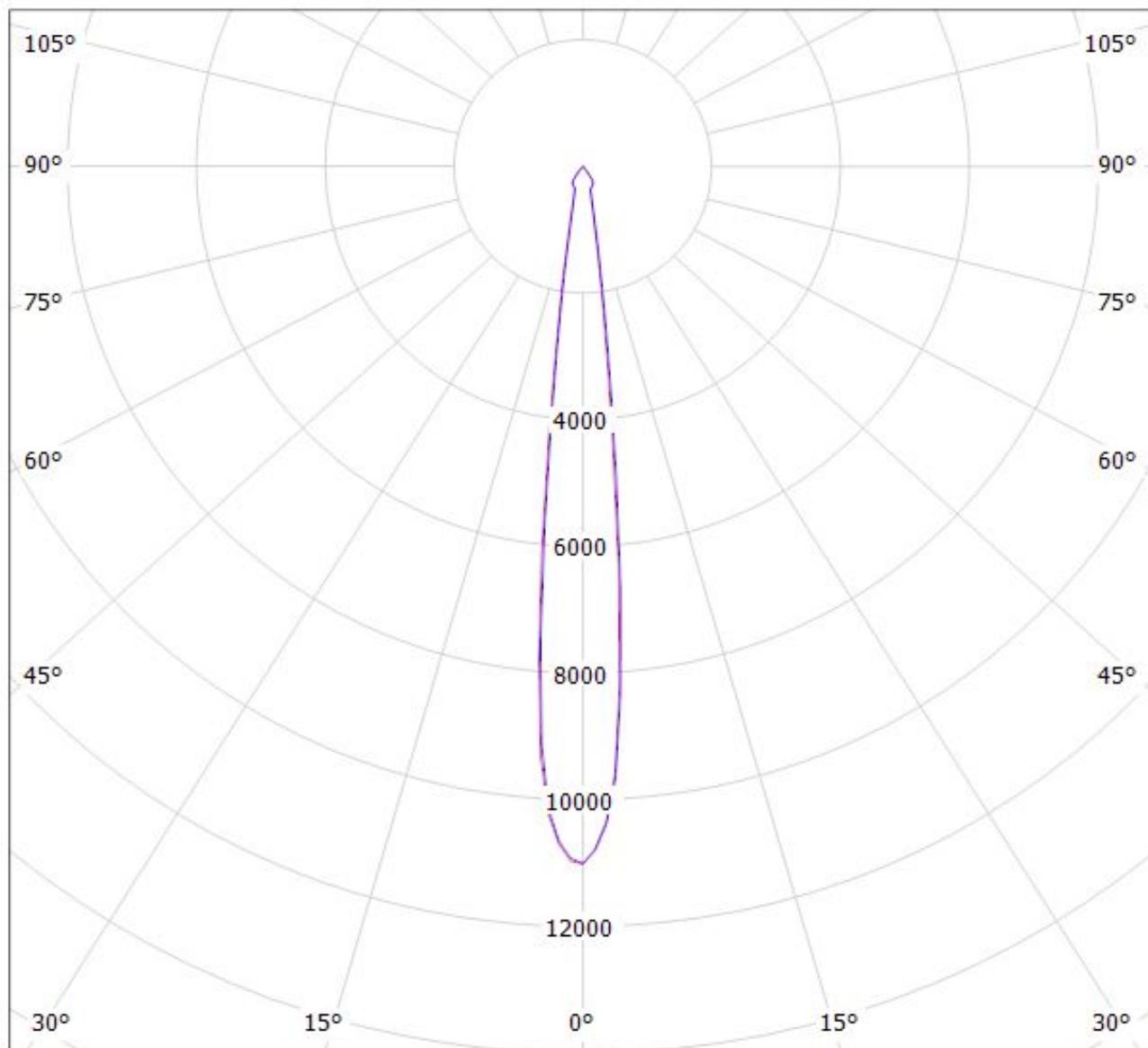


Luminaire: Ledil FCN14690_ANGELA-XW_(VERO18)

Lamps: 1 x Bridgelux_VERO18_(BXRE-30E4000-F-23)_1035.16lm@250mA_CCT=3000K_P=6.80625W_I=0.25A



Luminaire: LEDiL Oy FCN13705_ANGELA-S_(VERO18) Eff.93.1%
Lamps: 1 x Bridgelux_VERO18_891.528lm@250mA_P=6.81802W_I=249.9mA



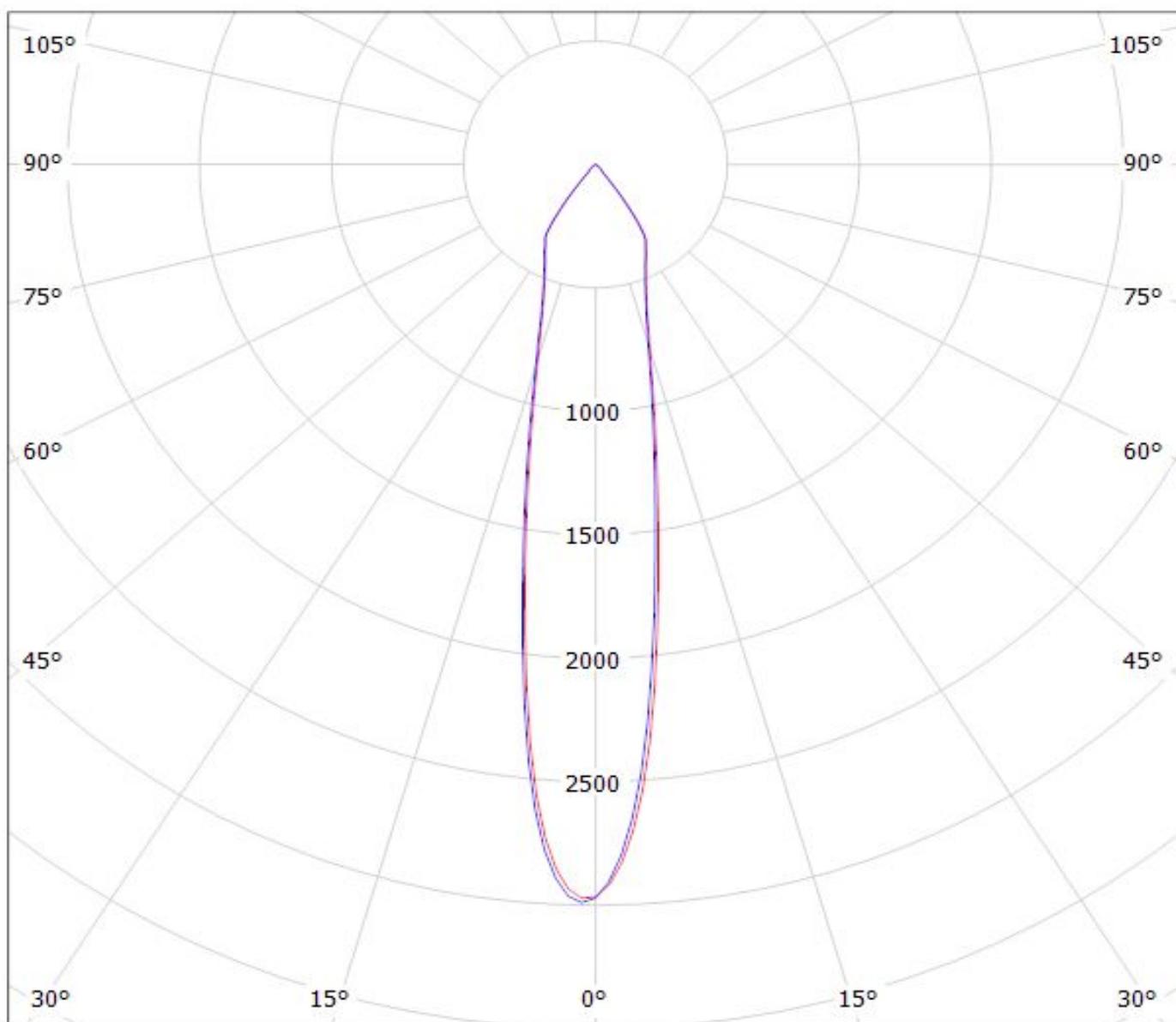
cd/klm

$\eta = 93\%$

— C0 - C180 — C90 - C270

Luminaire: LEDiL Oy FCN13706_ANGELA-M_(Vero18) Eff.85.0%

Lamps: 1 x VERO18_(BXRC30E4000F)_882.261lm@250mA P=6.73161W I=249.8mA



cd/klm

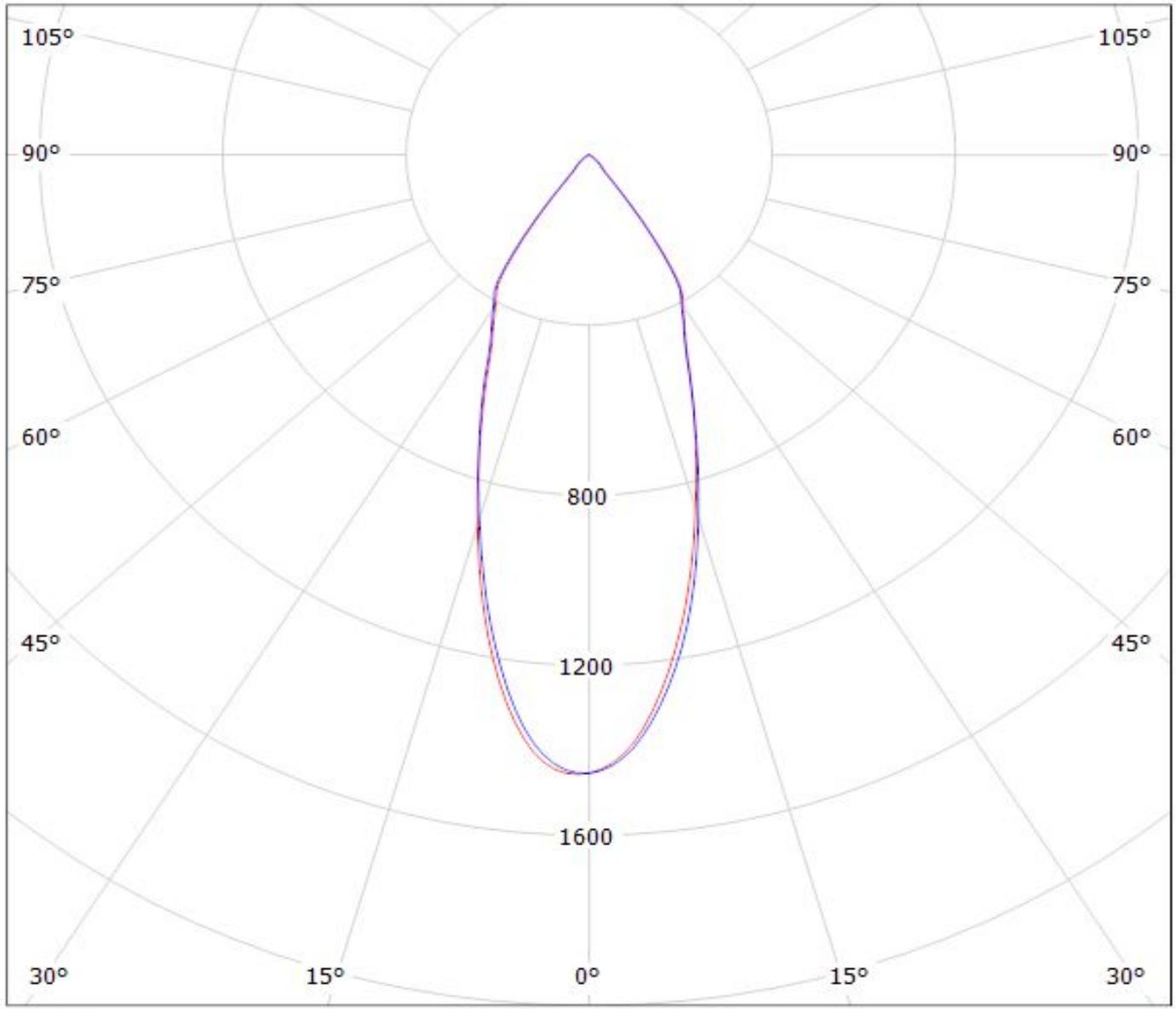
— C0 - C180

— C90 - C270

$\eta = 85\%$

Luminaire: LEDiL Oy FCN13707_ANGELA-W_(Vero18) Eff.83.9%

Lamps: 1 x VERO18_(BXRC30E4000F)_882.261lm@250mA P=6.73161W I=249.8mA



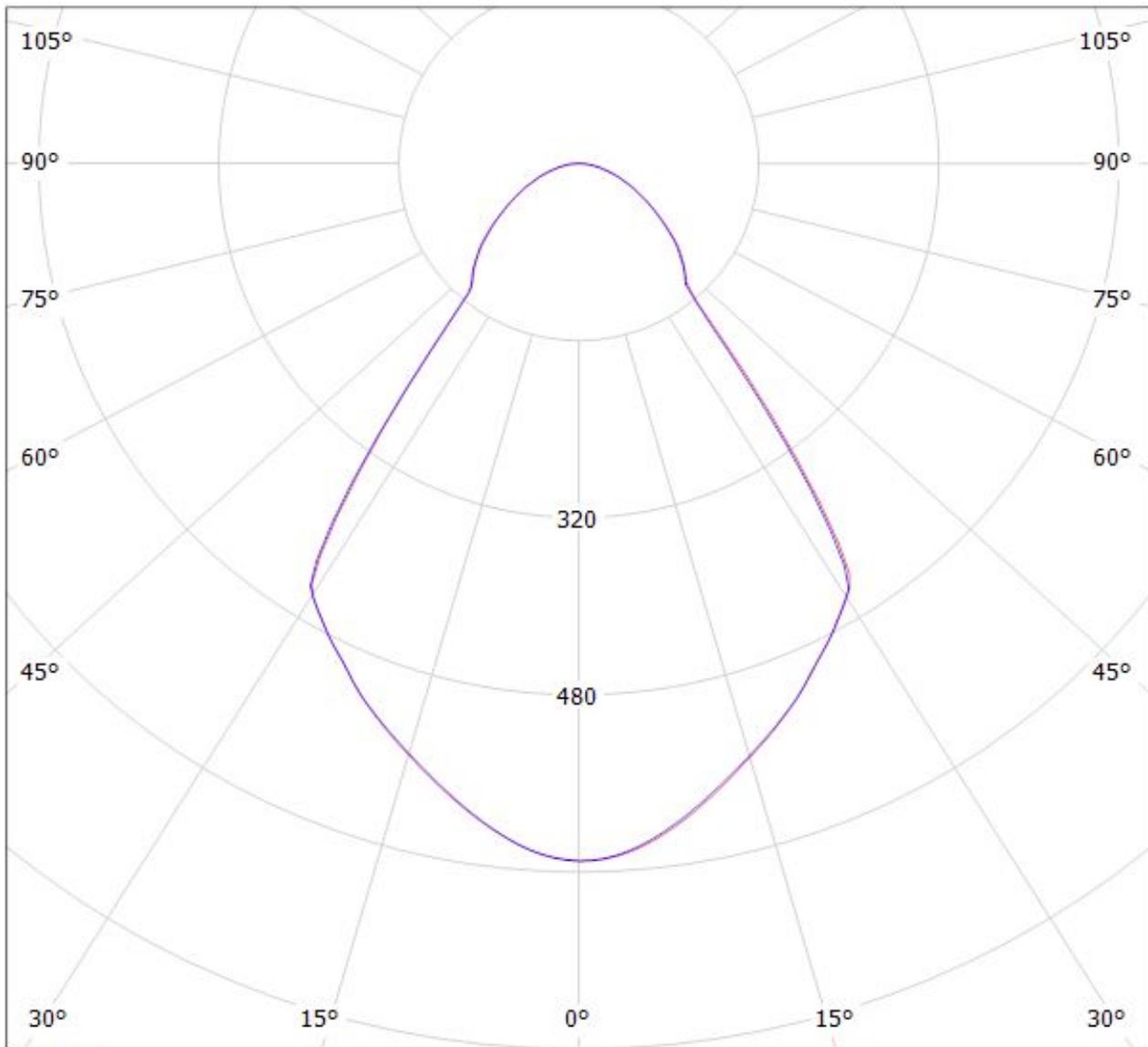
cd/klm

— C0 - C180 — C90 - C270

$\eta = 84\%$

Luminaire: Ledil FCN14690_ANGELA-XW_(VERO18)

Lamps: 1 x Bridgelux_VERO18_(BXRE-30E4000-F-23)_1035.16lm@250mA_CCT=3000K_P=6.80625W_I=0.25A



cd/klm

— C0 - C180

— C90 - C270

$\eta = 93\%$