



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

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## DETAILS

<b>Product Number</b>	FCN13693_ANGELINA-W
<b>Family</b>	ANGELINA
<b>Type</b>	RefPack
<b>Color</b>	metal
<b>Diameter</b>	82 mm
<b>Height</b>	36 mm
<b>Style</b>	round
<b>Optic Material</b>	
<b>Holder Material</b>	
<b>Fastening</b>	
<b>Status</b>	production ready
<b>ROHS Compliant</b>	Yes
<b>Date Updated</b>	3/11/2016



## OPTICAL PROPERTIES

LED	Viewing Angle	Light Beam	Efficiency	cd/lm	Connector
VERO29	64 deg	Wide	89 %	0.800	LEDiL: LEDiL
CLL04x/CLU04x	54 deg	Wide	92 %	0.960	Bender Wirth: 431 Typ L3
LUXEON CoB 1211	55 deg	Wide	93 %	0.940	Bender Wirth: 431 Typ L3
Soleriq S19	48 deg	Wide	91 %	1.000	Bender Wirth: 462 Typ L3
MJT COB LES 22	58 deg	Wide	90 %	0.870	Bender Wirth: 431 Typ L3



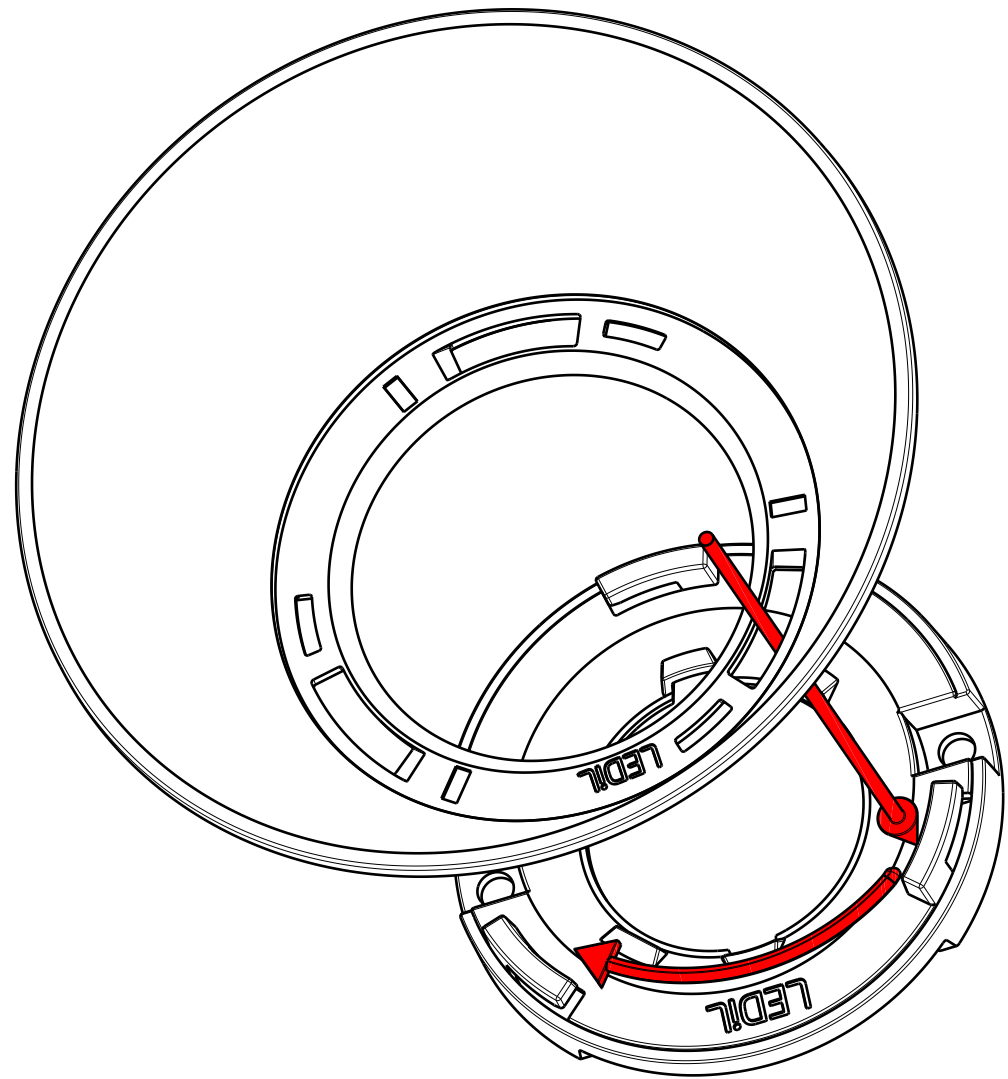
H G F E D C B A

4

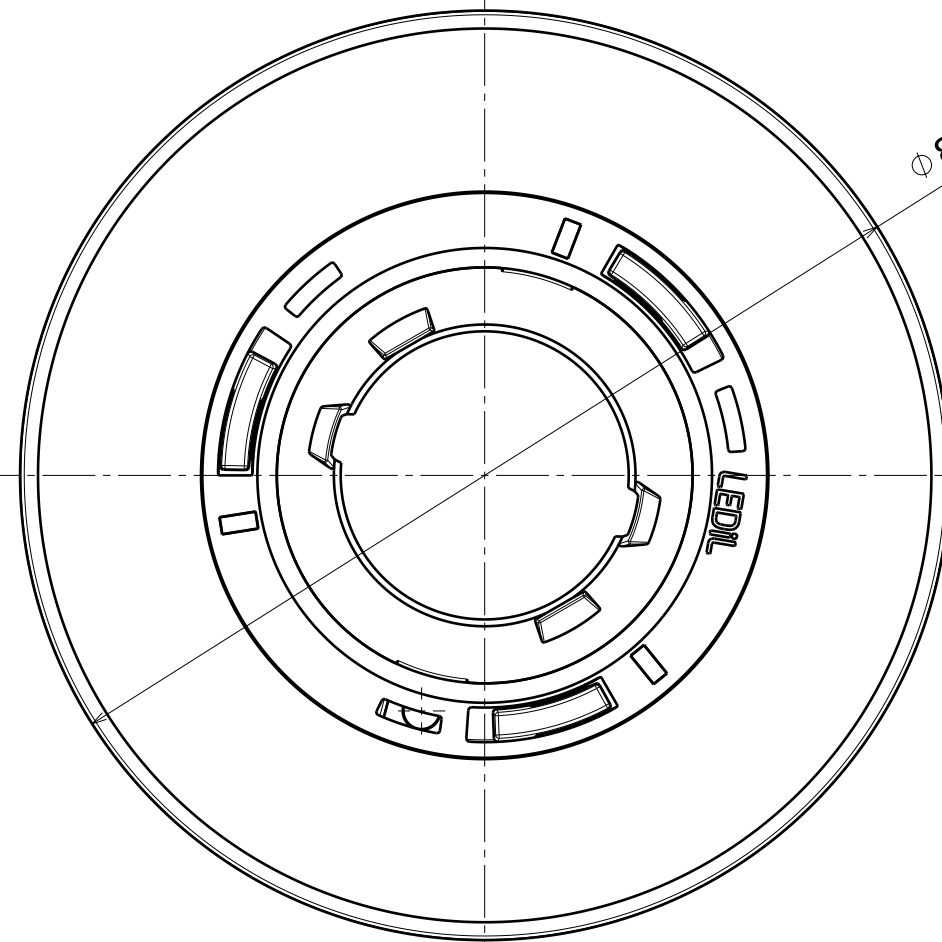
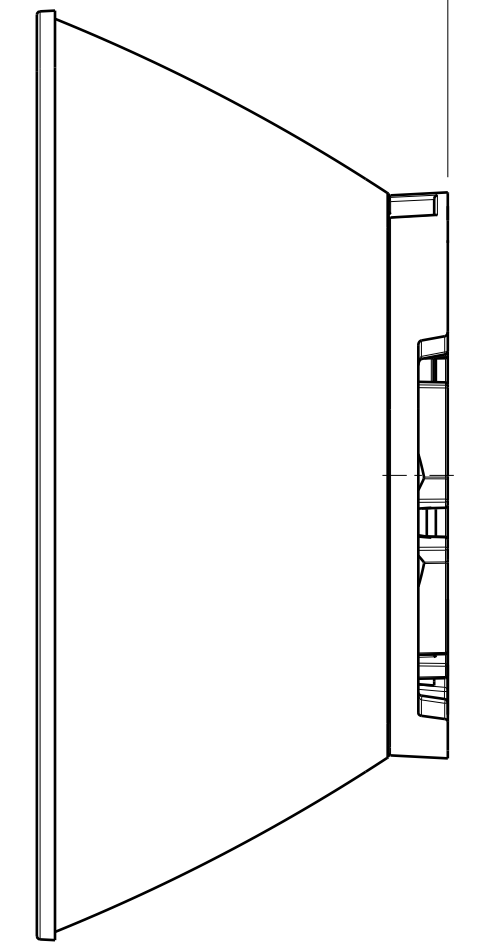
3

2

1



31 + Basepart



∅81.95

Tolerances if not otherwise shown  
According to DIN ISO 2768-1  
Linear measures:  
Up to 30mm class M, otherwise class C.  
According to DIN ISO 2768-2  
Form and position: class L

**LEDiL** LediL Oy  
Salorankatu 10  
FIN 24240 SALO  
Finland

THIRD ANGLE PROJECTION:

DRAWING TITLE  
**Datasheet\_ANGELINA + CLAMP**

This drawing is the property of LEDiL Oy. It may not be reproduced, copied or communicated without a written agreement with LEDiL Oy.

SIZE	PART NUMBER
A3	-

SCALE	3:2	WEIGHT (g)		SHEET	1/1
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H G B A

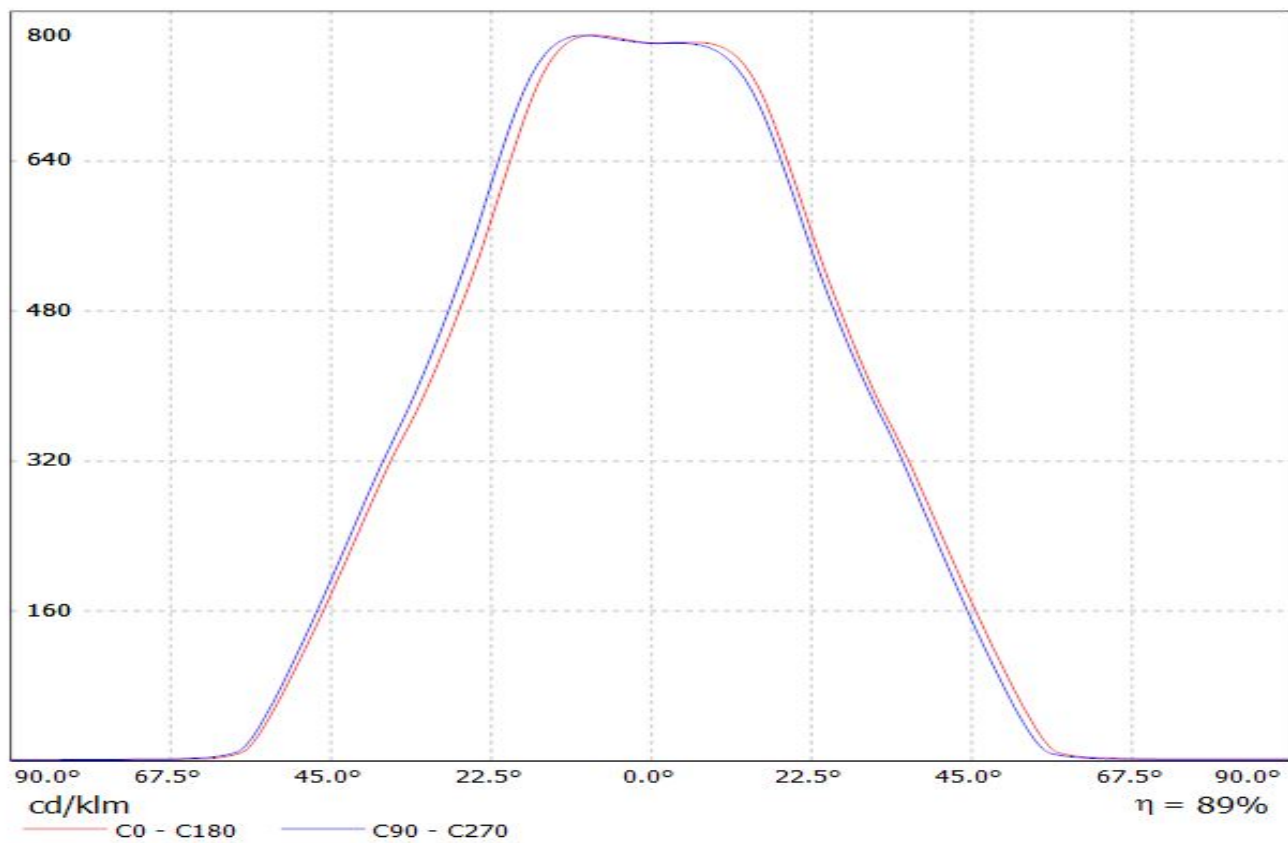
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3

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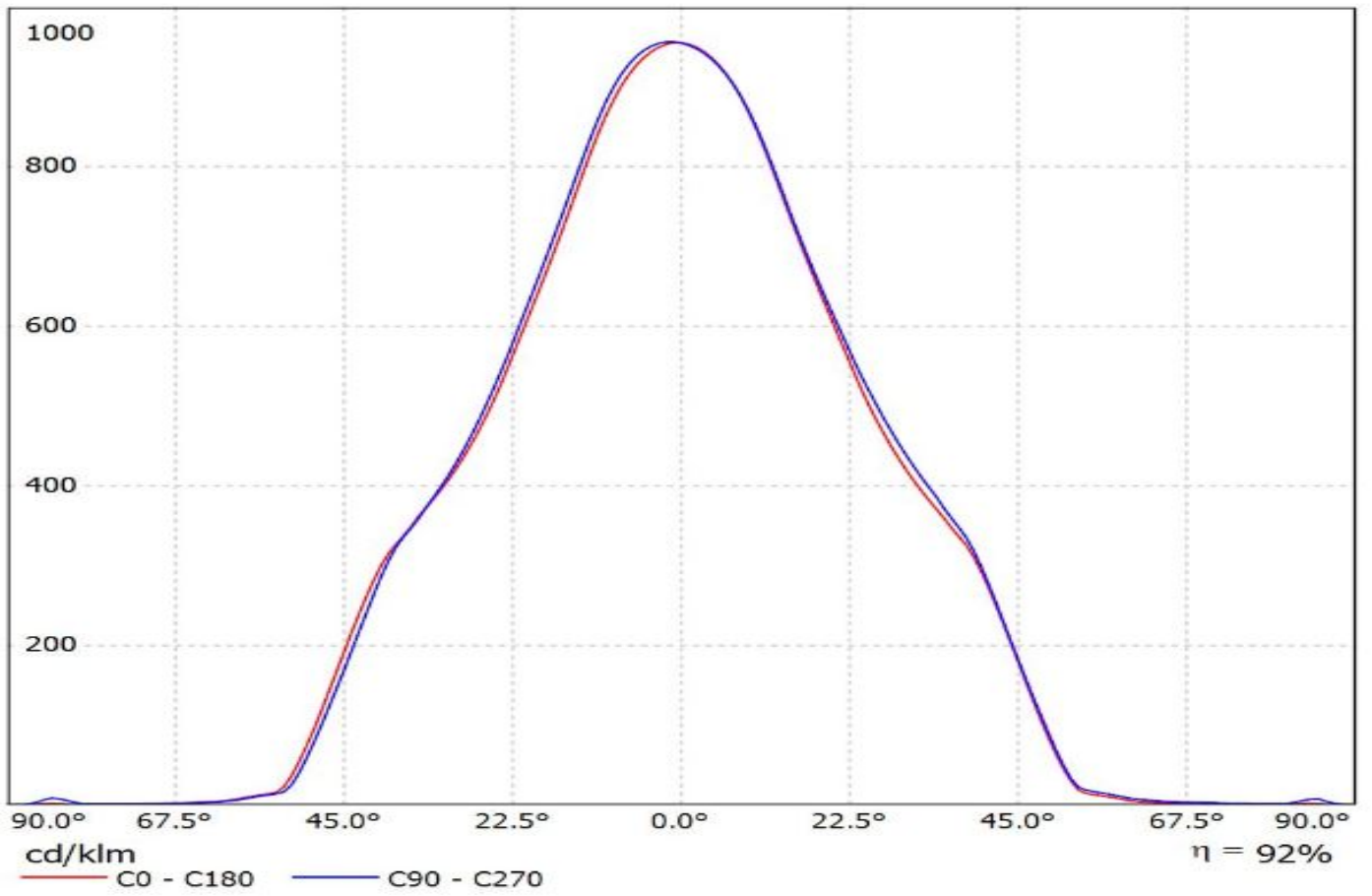
1

Luminaire: LEDiL Oy FCN13693\_ANGELINA-W\_(VERO29) Eff.89.5%  
Lamps: 1 x BRIDGELUX\_VERO29 (BXRC-50C10K0-L-04) 1381.64lm@250mA CCT=5000K P=9W I=250mA



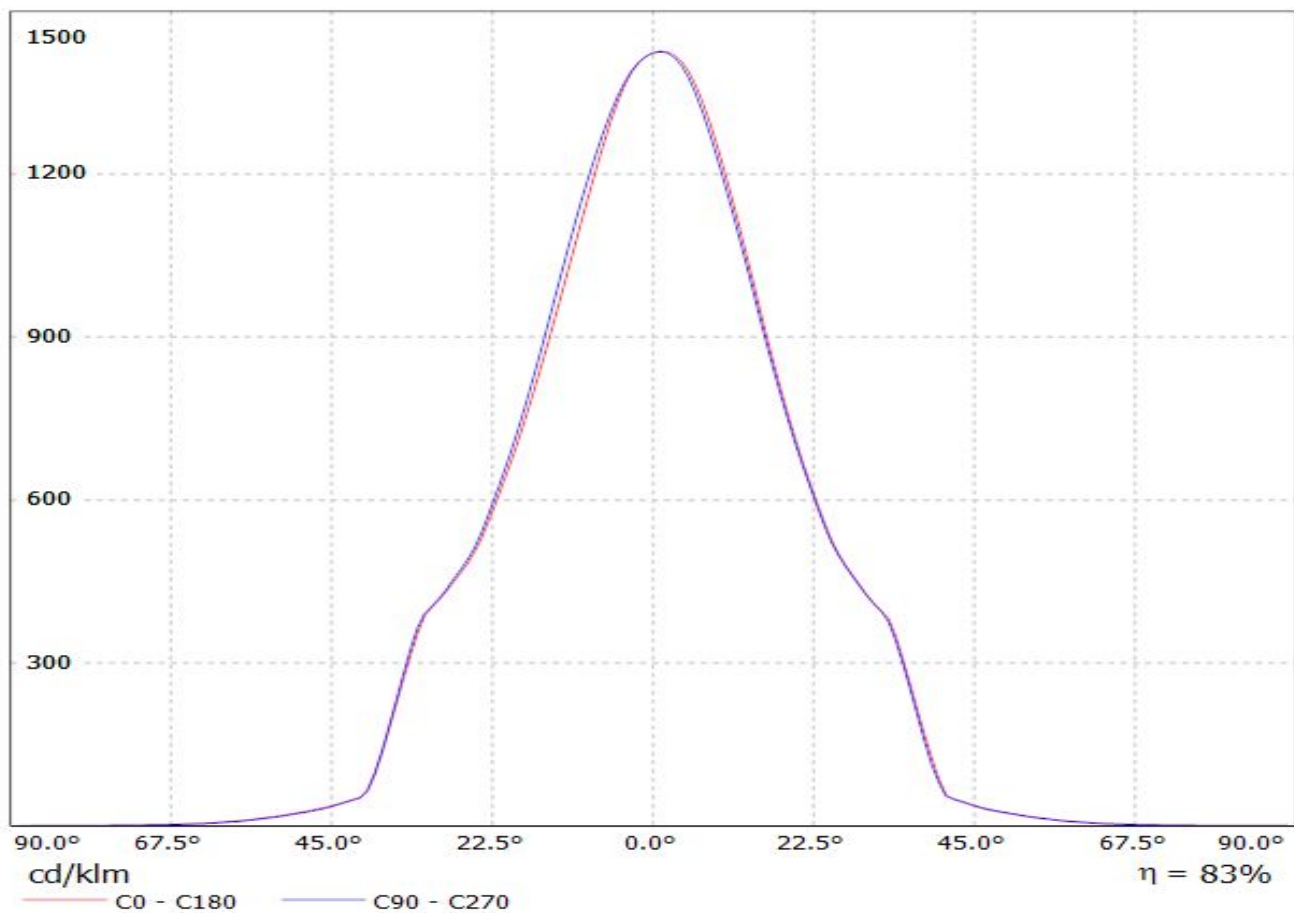
Luminaire: Ledil FCN13693\_ANGELINA-W\_(CLU044)\_(431\_Typ\_L3)

Lamps: 1 x Citizen\_CLU044\_(CLU044-1212B8-303M1A2)\_1272.54lm@250mA\_P=8.16W\_I=0.25A



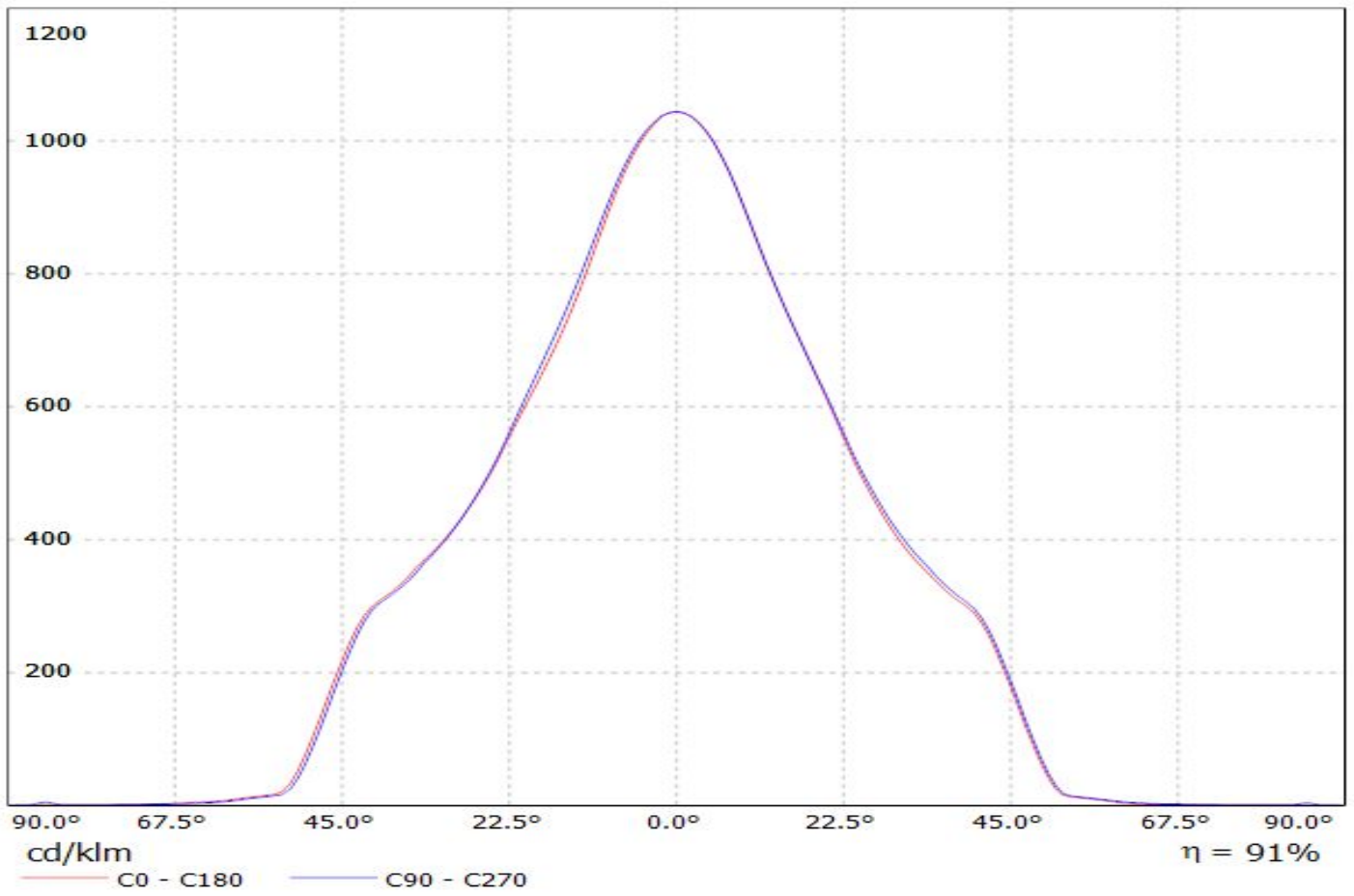
Luminaire: LEDiL Oy FCN13704\_ANGELA-W\_(CoB\_1211)\_(431\_Typ\_L3)

Lamps: 1 x Luxeon\_CoB\_1211\_(LHC1-5780-1211)\_(431\_Typ\_L3)\_(C13867)\_897.994lm@250mA\_P=8W\_I=0.25A

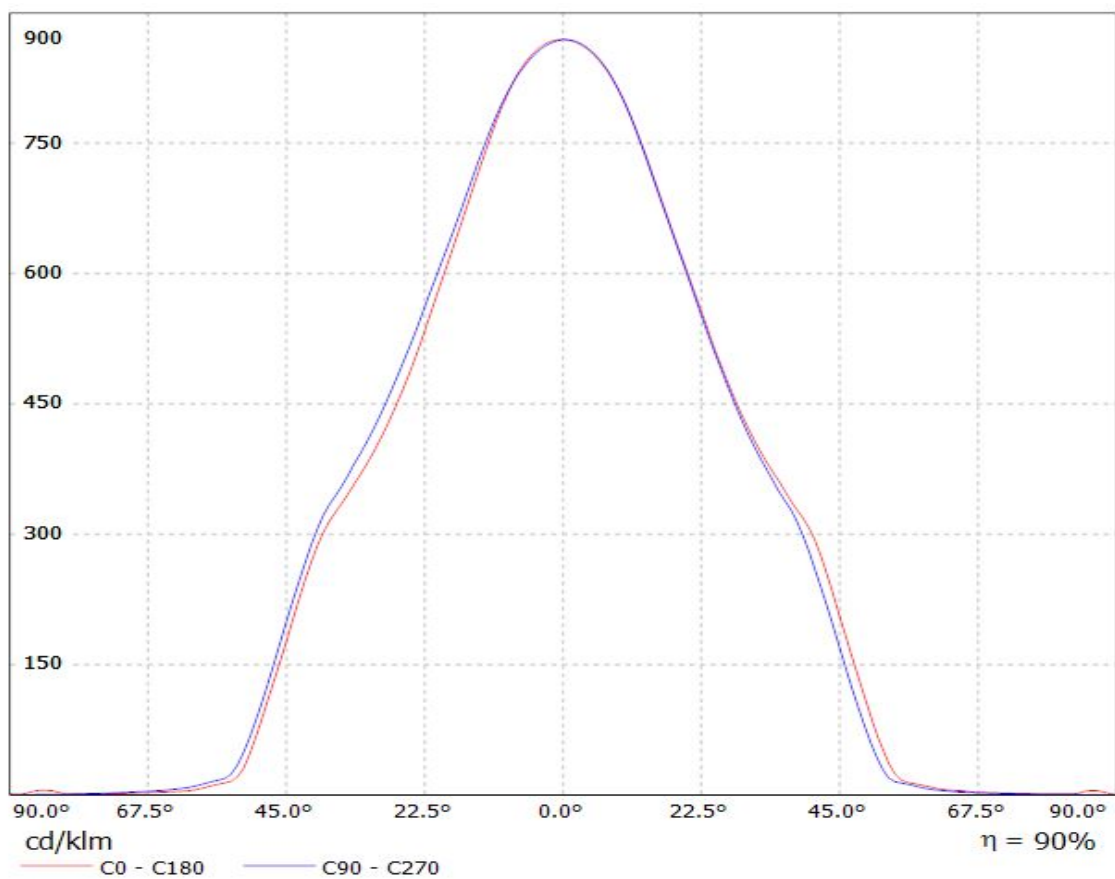


Luminaire: LEDiL Oy FCN13693\_ANGELINA-W\_(Soleriq\_S19)\_462\_Typ\_L3

Lamps: 1 x Osram\_Soleriq\_S19\_(GW\_KAHJB1.EM)\_1497.37lm@250mA\_P=11.1223W\_I=0.2532A



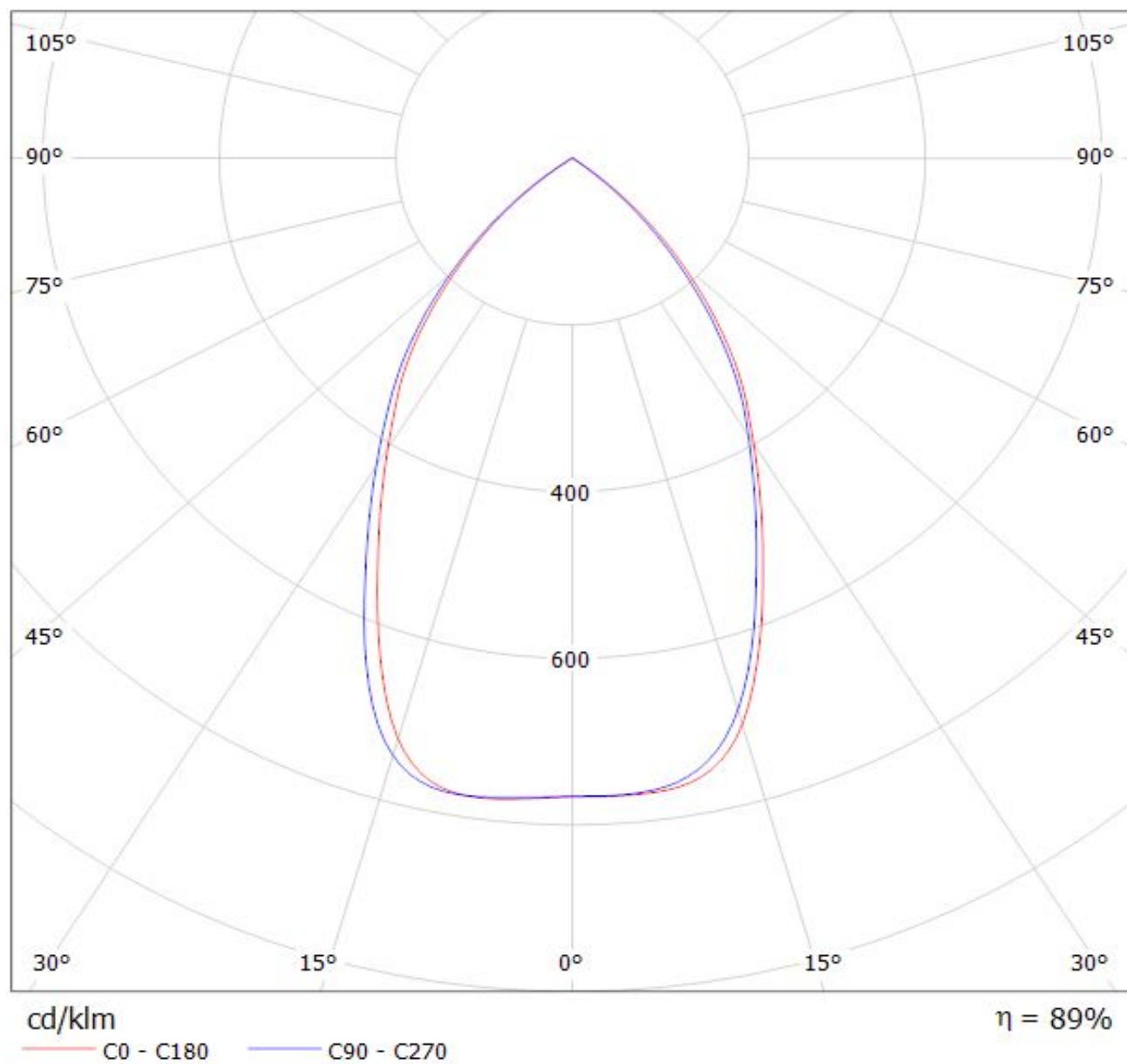
Luminaire: Ledil FCN13693\_ANGELINA-W\_(MJT\_80W\_Les22)\_+431TypL3  
Lamps: 1 x Seoul\_MJT\_80W\_Les22mm\_(SAWx22AAA)+\_VÉRO29+\_431TypL3\_2407.73lm@250mA\_P=13.2662W\_I=0.25A





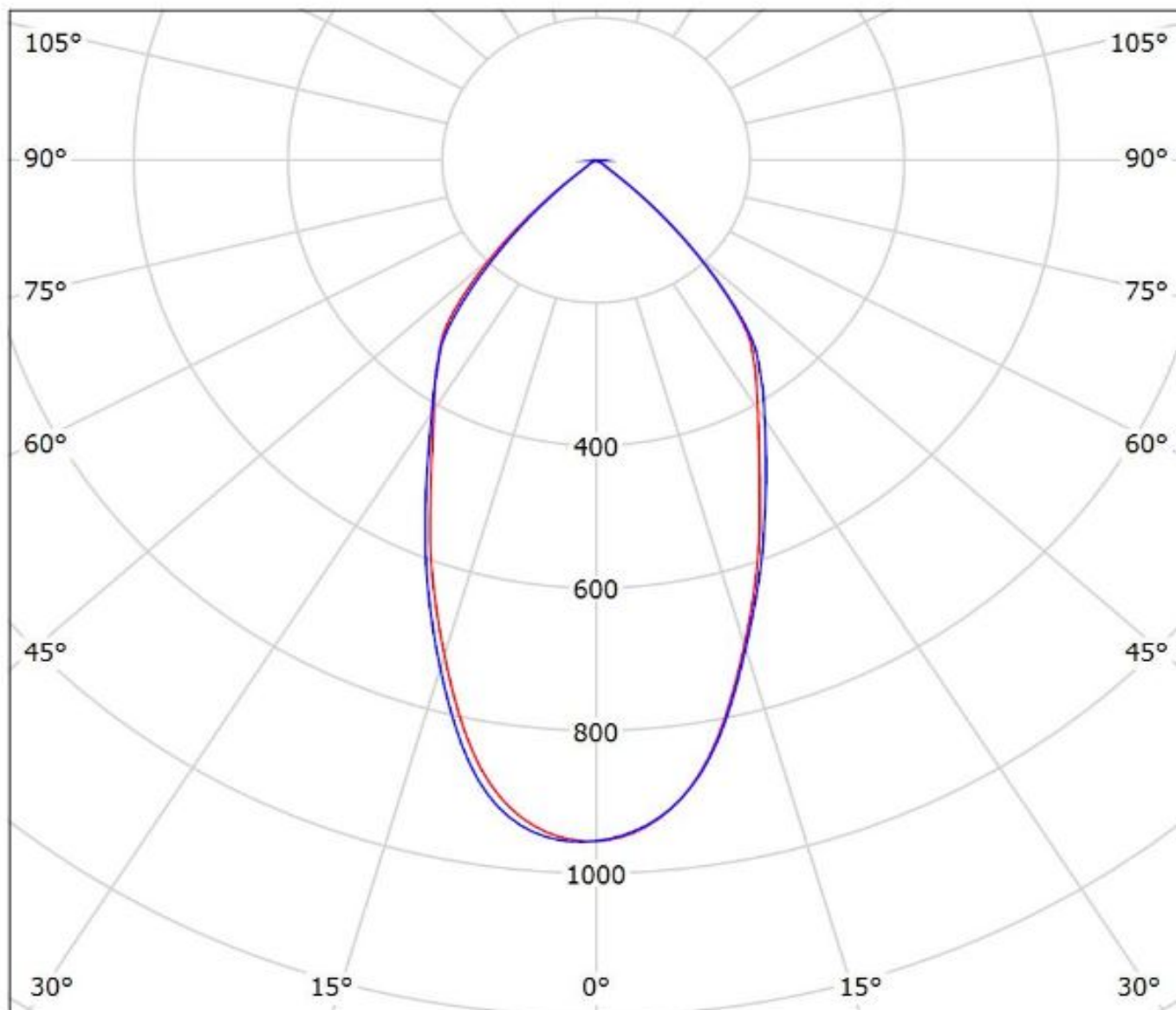
Luminaire: LEDiL Oy FCN13693\_ANGELINA-W\_(VERO29) Eff.89.5%

Lamps: 1 x BRIDGELUX\_VERO29 (BXRC-50C10K0-L-04) 1381.64lm@250mA CCT=5000K P=9W I=250mA



Luminaire: Ledil FCN13693\_ANGELINA-W\_(CLU044)\_ (431\_Typ\_L3)

Lamps: 1 x Citizen\_CLU044\_(CLU044-1212B8-303M1A2)\_ 1272.54lm@250mA\_P=8.16W\_I=0.25A



cd/klm

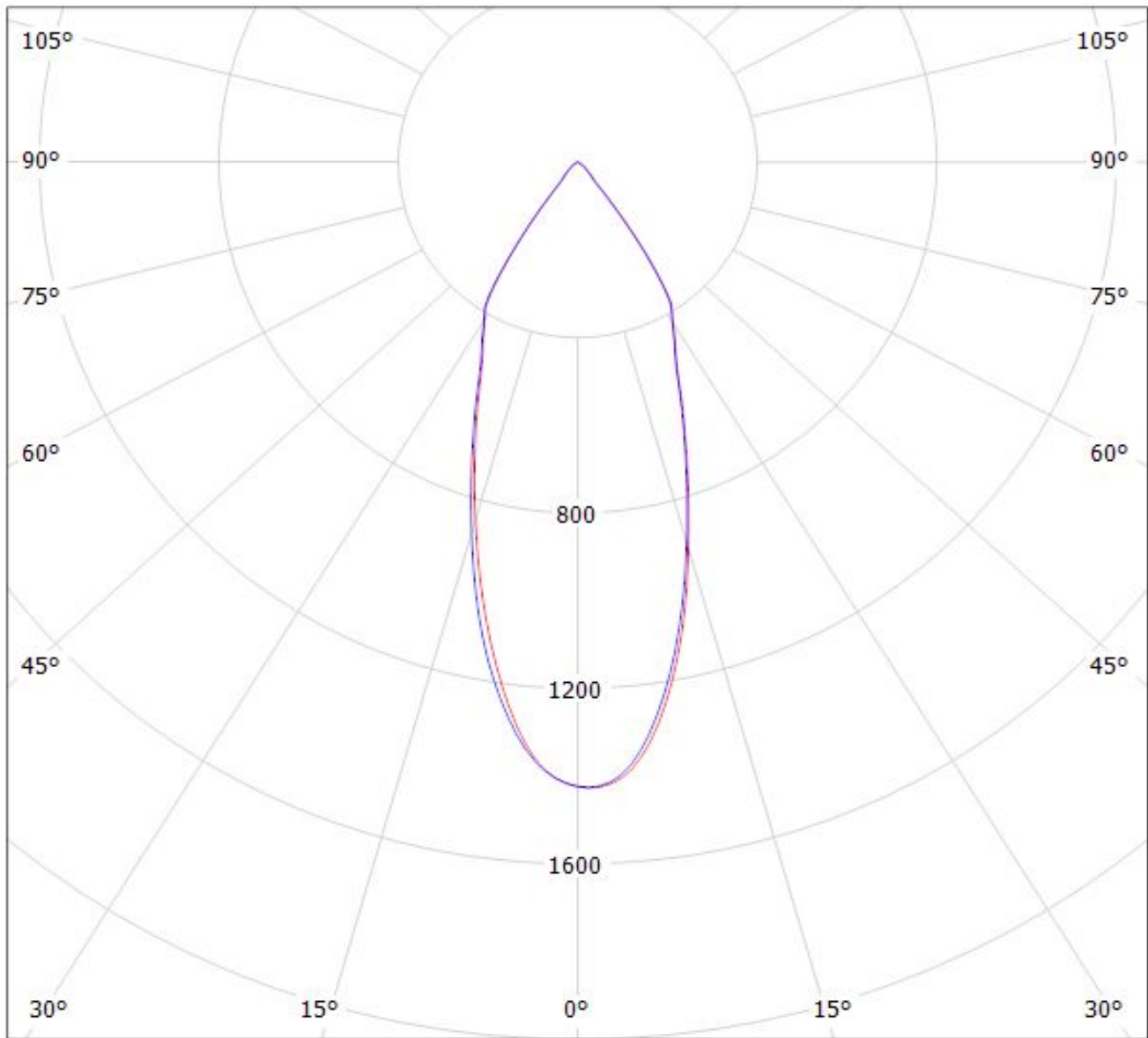
— C0 - C180

— C90 - C270

$\eta = 92\%$

Luminaire: LEDiL Oy FCN13704\_ANGELA-W\_(CoB\_1211)\_(431\_Typ\_L3)

Lamps: 1 x Luxeon\_CoB\_1211\_(LHC1-5780-1211)\_(431\_Typ\_L3)\_(C13867)\_897.994lm@250mA\_P=8W\_I=0.25A

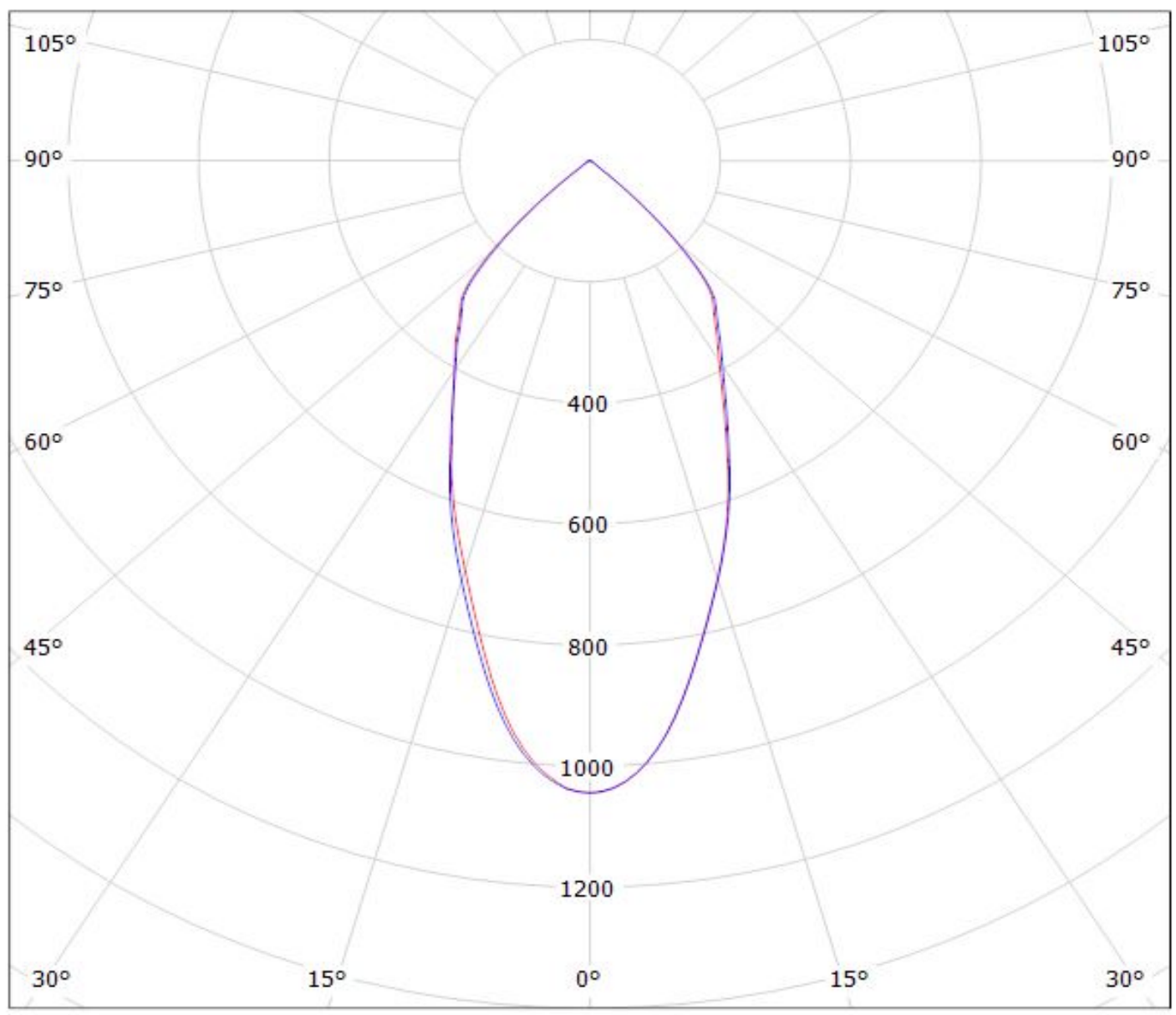


cd/klm

$\eta = 83\%$

— C0 - C180    — C90 - C270

Luminaire: LEDiL Oy FCN13693\_ANGELINA-W\_(Soleriq\_S19)\_462\_Typ\_L3  
Lamps: 1 x Osram\_Soleriq\_S19\_(GW\_KAHJB1.EM)\_1497.37lm@250mA\_P=11.1223W\_η=0.2532A



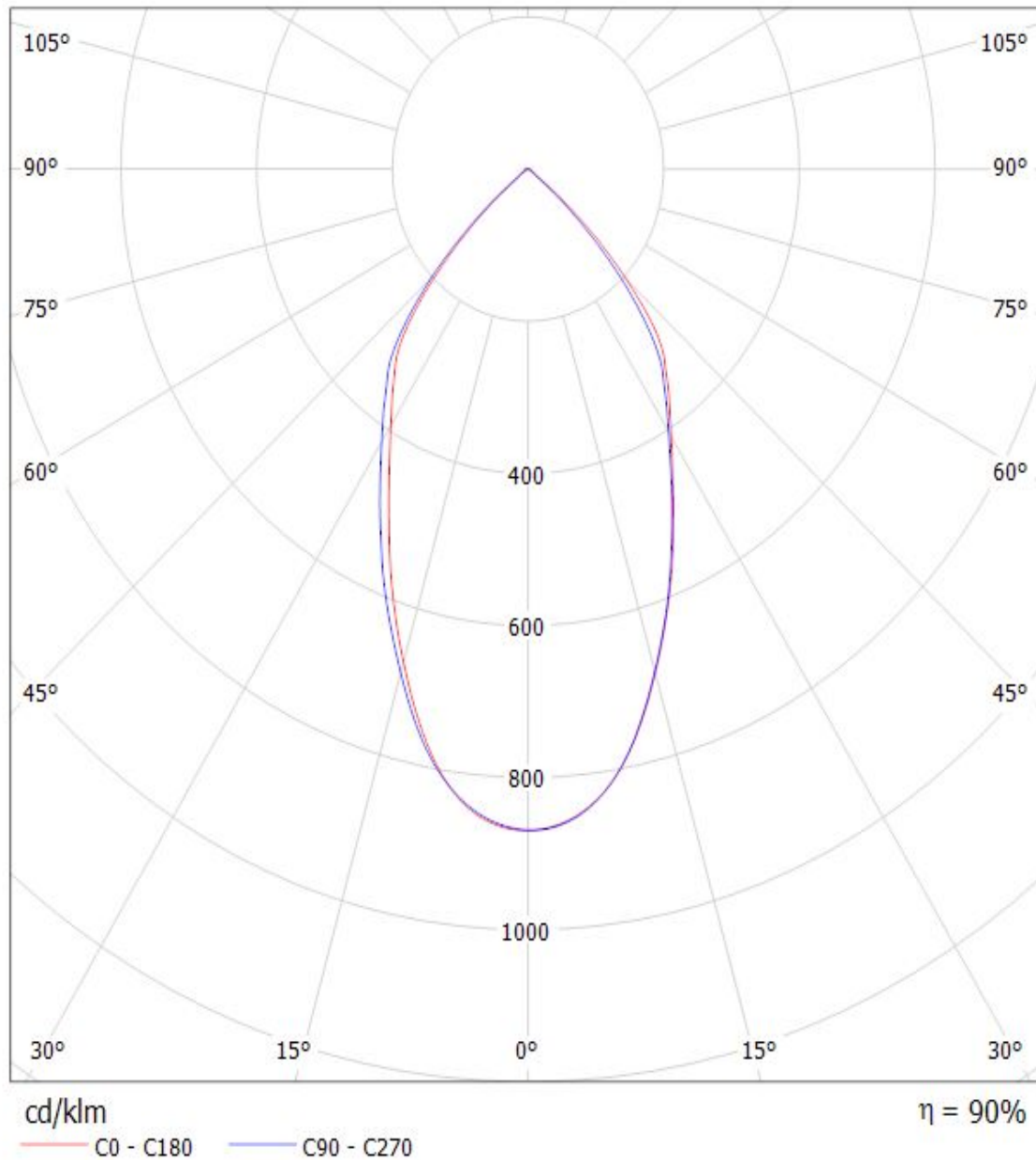
cd/klm

— C0 - C180    — C90 - C270

η = 91%

Luminaire: Ledil FCN13693\_ANGELINA-W (MJT\_80W\_Les22)\_+431TypL3

Lamps: 1 x Seoul\_MJT\_80W\_Les22mm\_(SAWx22AAA)\_+\_VERO29\_+\_431TypL3\_2407.73lm@250mA\_P=13.2662W\_I=0.25A





**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 series of LEDs.
- Special care taken to make light distribution as uniform as possible.

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.