



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

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



## DETAILS

<b>Product Number</b>	FC13977_ANGELINA-RZ-S-B
<b>Family</b>	ANGELINA
<b>Type</b>	RefPack
<b>Color</b>	metal
<b>Diameter</b>	82 mm
<b>Height</b>	31 mm
<b>Style</b>	round
<b>Optic Material</b>	PC
<b>Holder Material</b>	
<b>Fastening</b>	screw, socket
<b>Status</b>	production ready
<b>ROHS Compliant</b>	Yes
<b>Date Updated</b>	13/06/2014



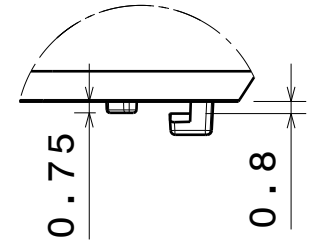
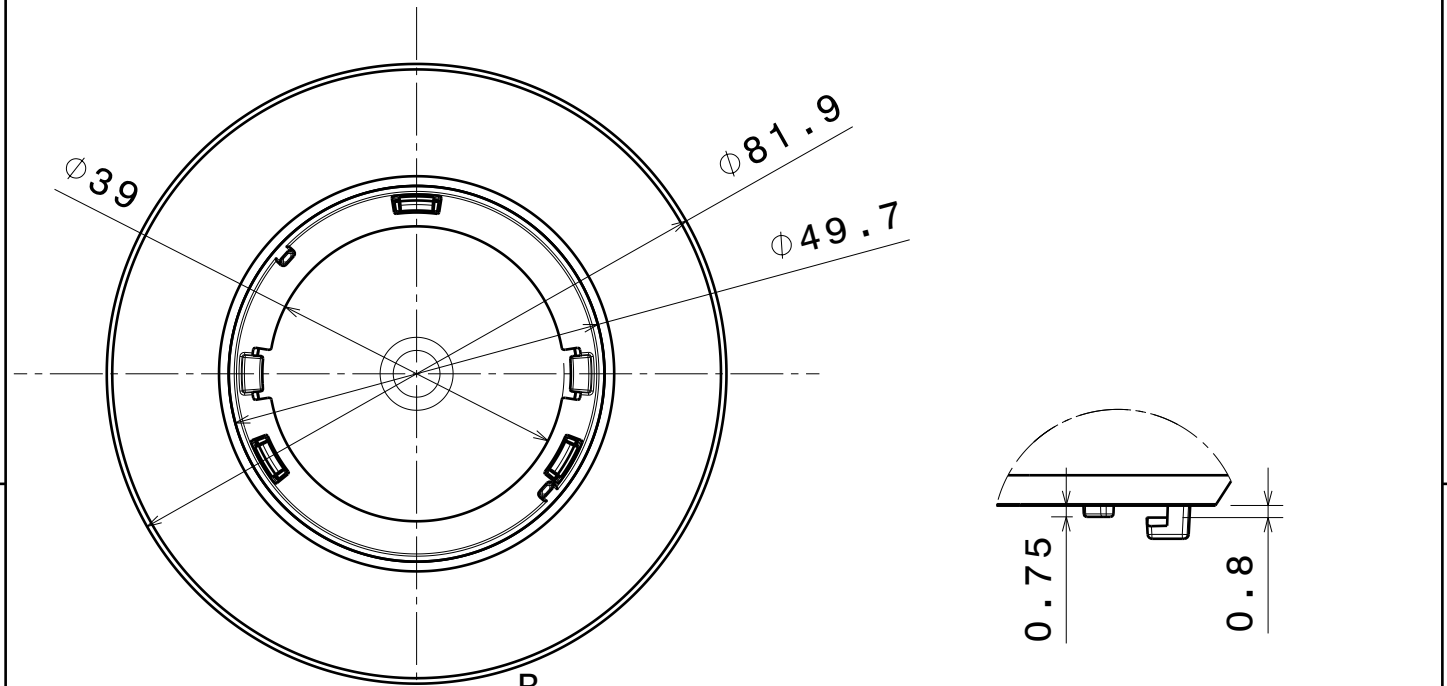
## OPTICAL PROPERTIES

LED	Viewing Angle	Light Beam	Efficiency	cd/lm	Connector
CLL03x/CLU03x	25 deg	Spot	89 %	1.820	A.A.G. STUCCHI: 8101/G2
CLL04x/CLU04x	33 deg	Spot	88 %	1.390	A.A.G. STUCCHI: 8102/G2
CXA/B 25xx	30 deg	Spot	88 %	1.500	BJB: 47.319.2141
LUXEON K12	27 deg	Spot	89 %	1.600	BJB: 47.319.2070
LUXEON K16	29 deg	Spot	89 %	1.500	BJB: 47.319.2070
LUXEON CoB 1216	34 deg	Spot	88 %	1.350	BJB: 47.319.2030
COB D Series LES 14.5 mm	27 deg	Spot	89 %	1.710	A.A.G. STUCCHI: 8101/G2
COB D Series LES 14.5 mm	27 deg	Spot	89 %	1.710	BJB: 47.319.2021
Tiger Zenigata (GWTGCBG4FD)	23 deg	Spot	91 %	2.000	BJB: 47.319.2051

D C B A

4

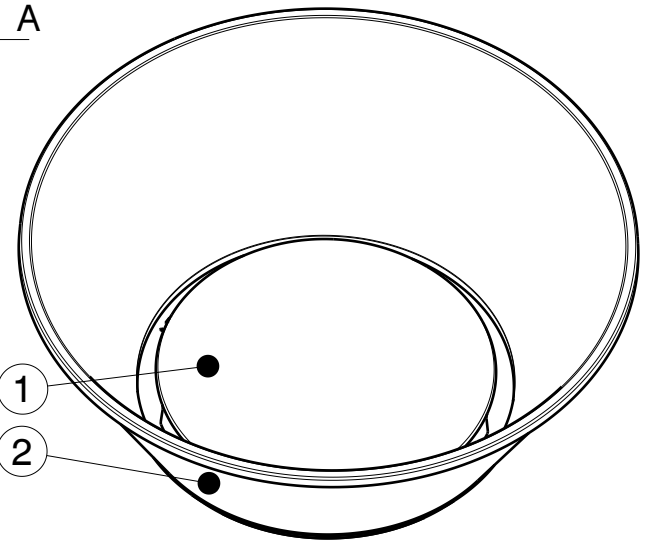
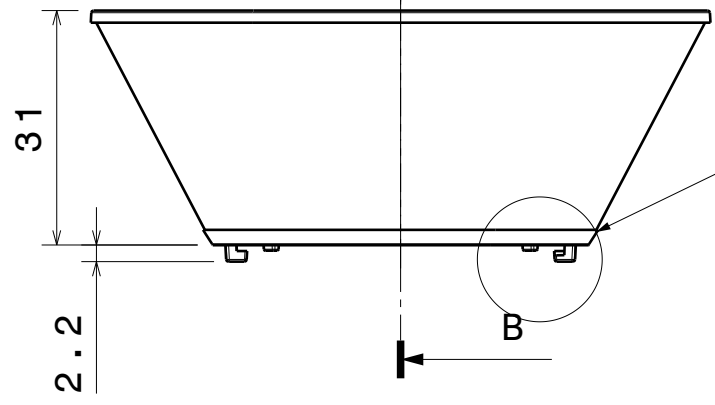
4



Detail A  
Scale: 2:1

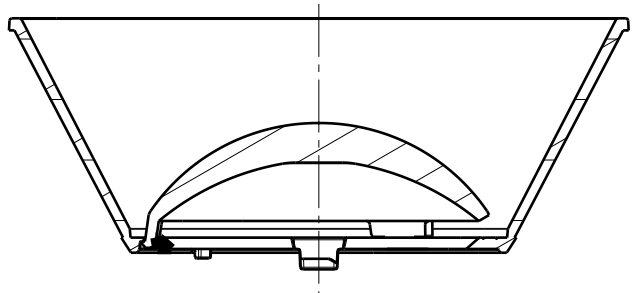
3

3



2

2



Section view B-B  
Scale: 1:1

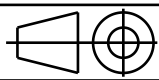
INDEX	PART NO	DESCRIPTION	MATERIAL	COLOUR
1		ANGE-RZ-lens	PC	
2		ANGELINA-B reflector	PC	metal

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 Oy  
Salorankatu 10  
FIN 24240 SALO  
Finland

THIRD ANGLE PROJECTION:



DRAWING TITLE  
**Angelina-B-RZ Assy**

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  
**A4**

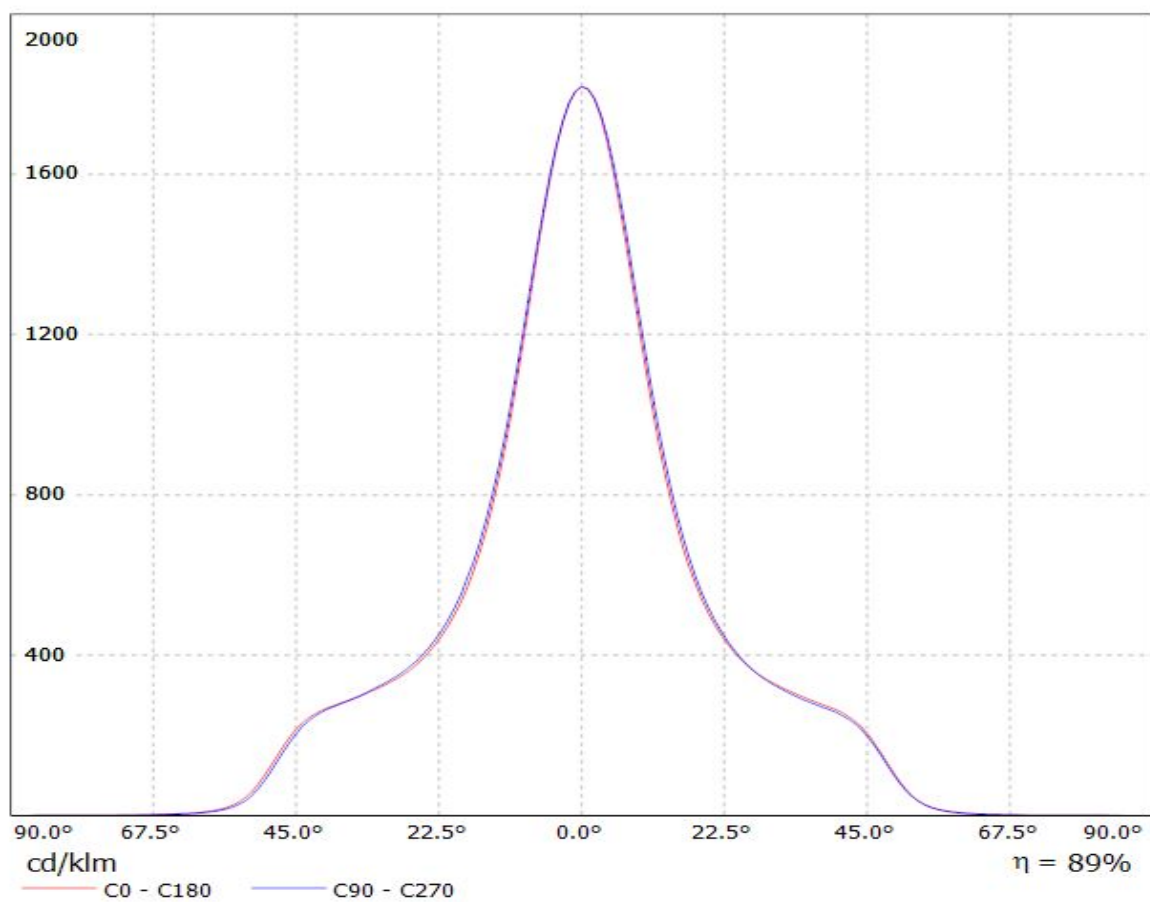
SCALE 1:1 WEIGHT 16,43 g SHEET 1/1

1

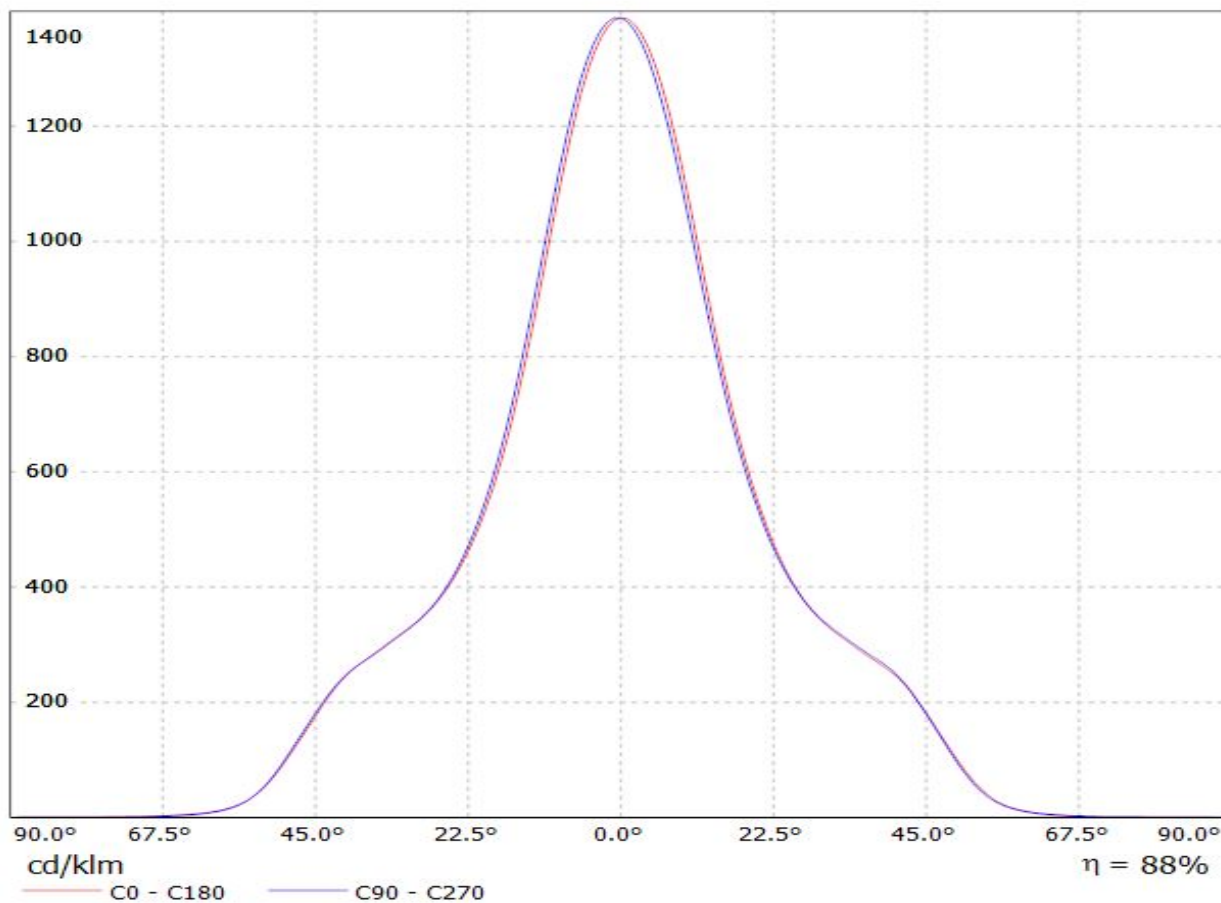
1

D A

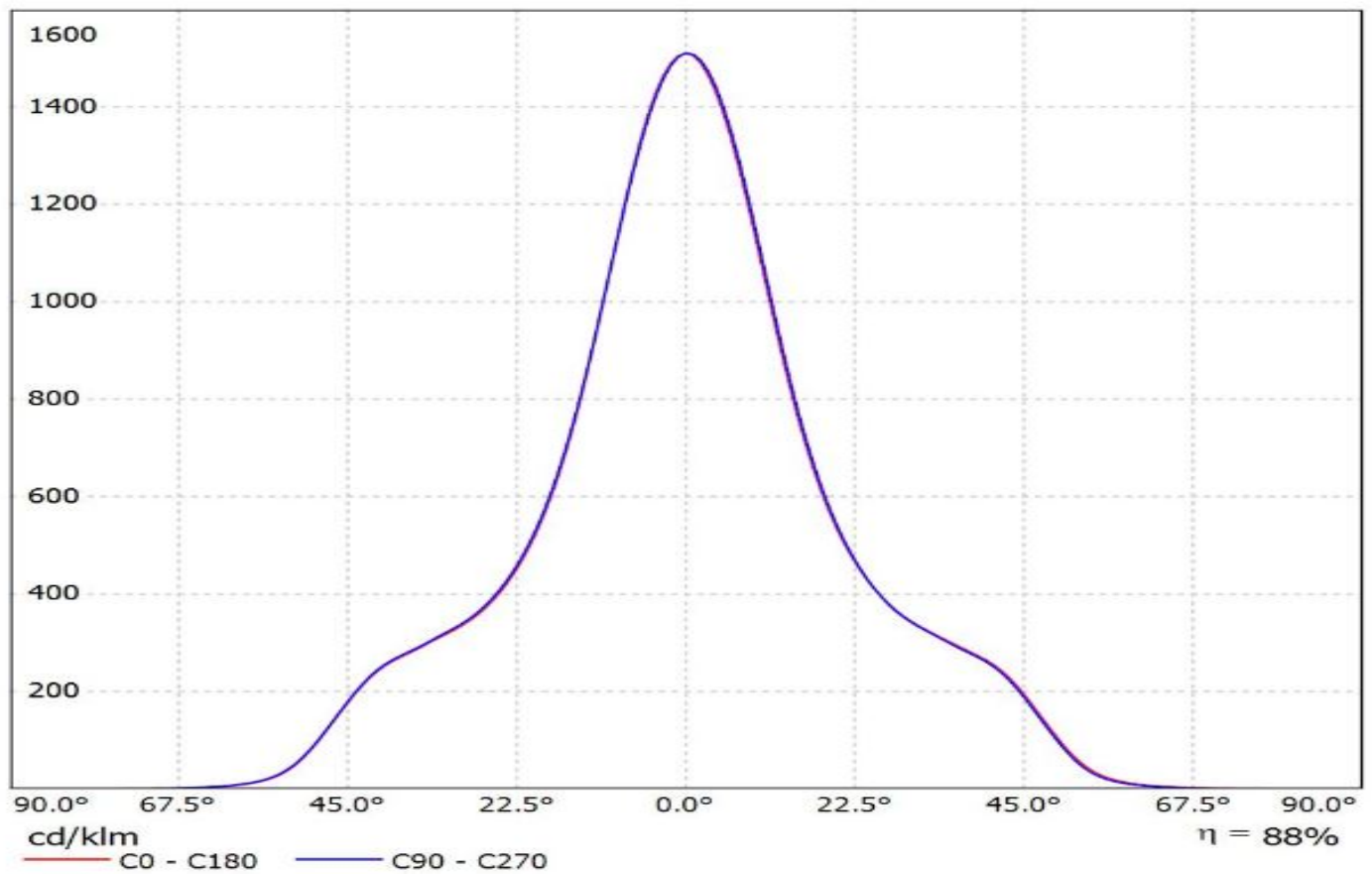
Luminaire: LEDiL Oy FC13977\_ANGELINA-RZ-S-B\_(CLU034)\_(Stucchi\_8101-G2)  
Lamps: 1 x Citizen\_CLU034\_(CLU034-1205B8-303M1A2)\_+\_ (Stucchi\_8101/G2)\_1150.05lm@250mA\_P=8.45123W\_I=0.250A



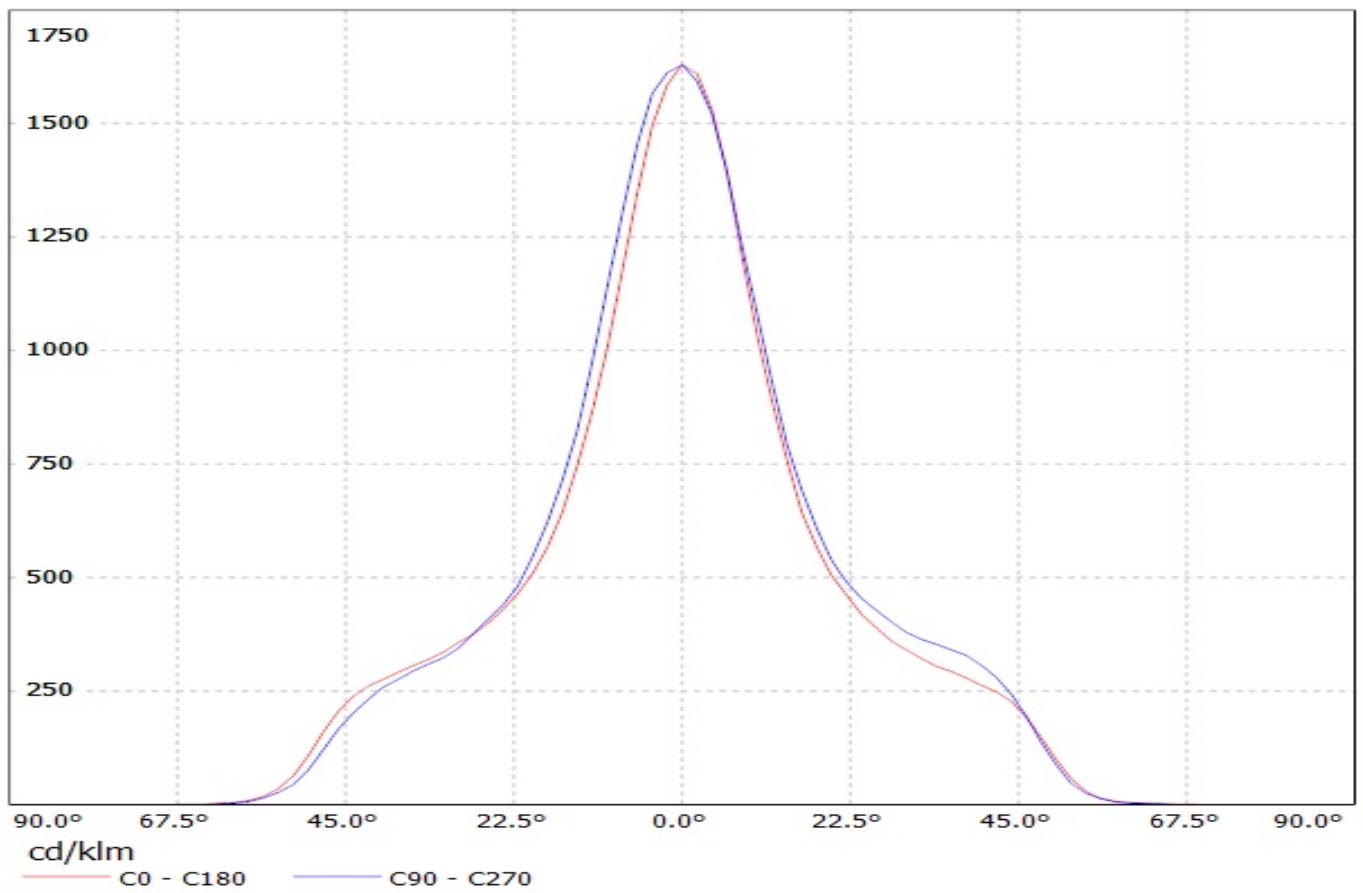
Luminaire: LEDiL Oy FC13977\_ANGELINA-RZ-S-B\_(CLU044)\_+(Stucchi\_8102-G2)  
Lamps: 1 x Citizen\_CLU044\_(1212B8-303M1A2)\_+(Stucchi\_8102/G2)\_1291.68lm@250mA\_P=8.13748W\_I=0.250A



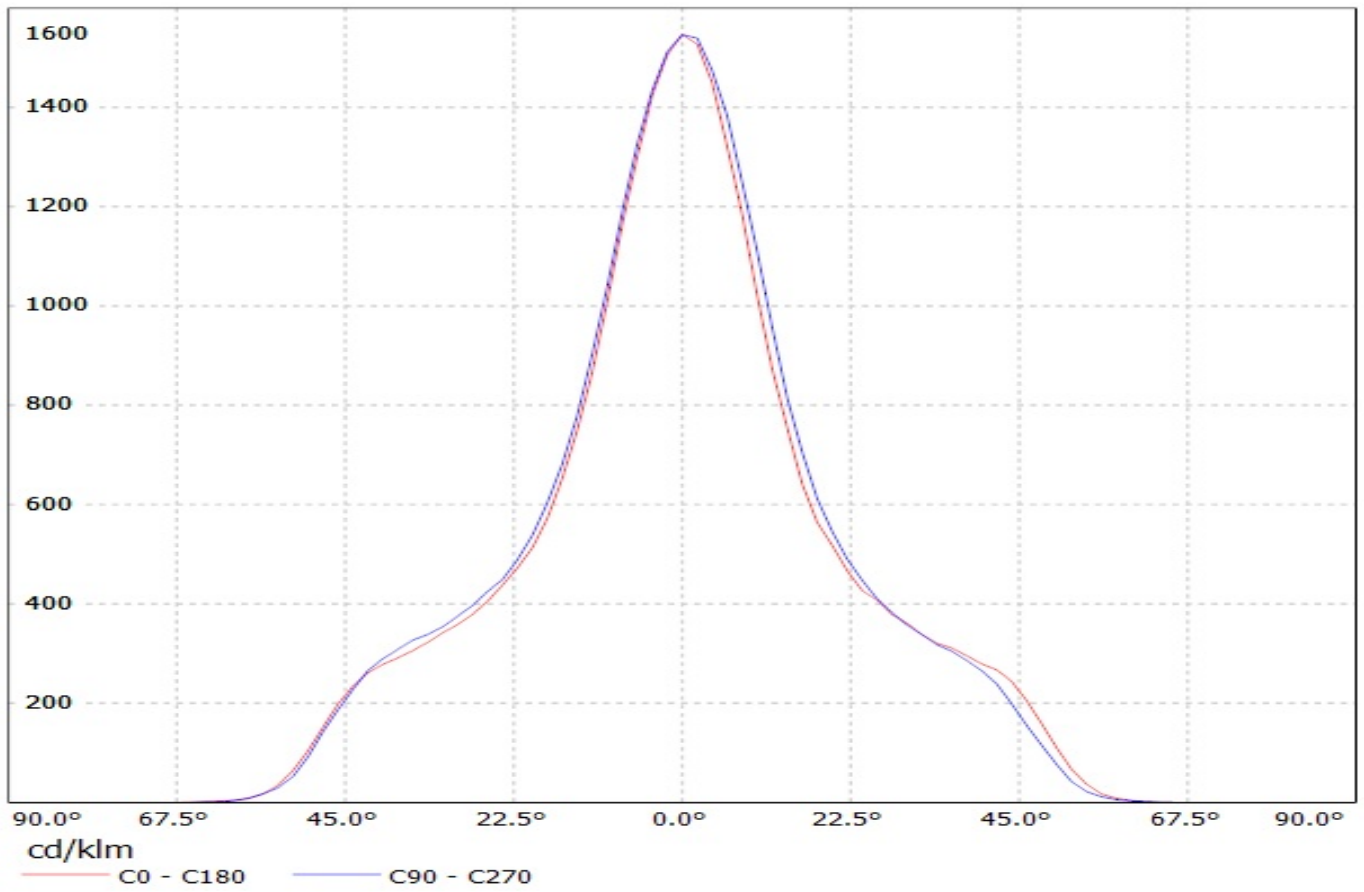
Luminaire: Ledil FC13977\_ANGELINA-RZ-S-B\_(CXB2540+\_BJB\_47.319.2140)  
Lamps: 1 x CREE\_CXB2540\_(-40G-W4-N0H-00002)  
+\_BJB\_47.319.2140\_1412.99lm@250mA\_CCT=40000K\_P=8.1310W\_I=0.25A



Luminaire: LEDil Oy FC13977\_ANGELINA-RZ-S-B\_(Luxeon\_K12) Efficiency=89%  
Lamps: 1 x Luxeon K12 (LXK8-PW40-0012) 930 lm @ 250mA CCT=4000K P=8.2W I=250mA



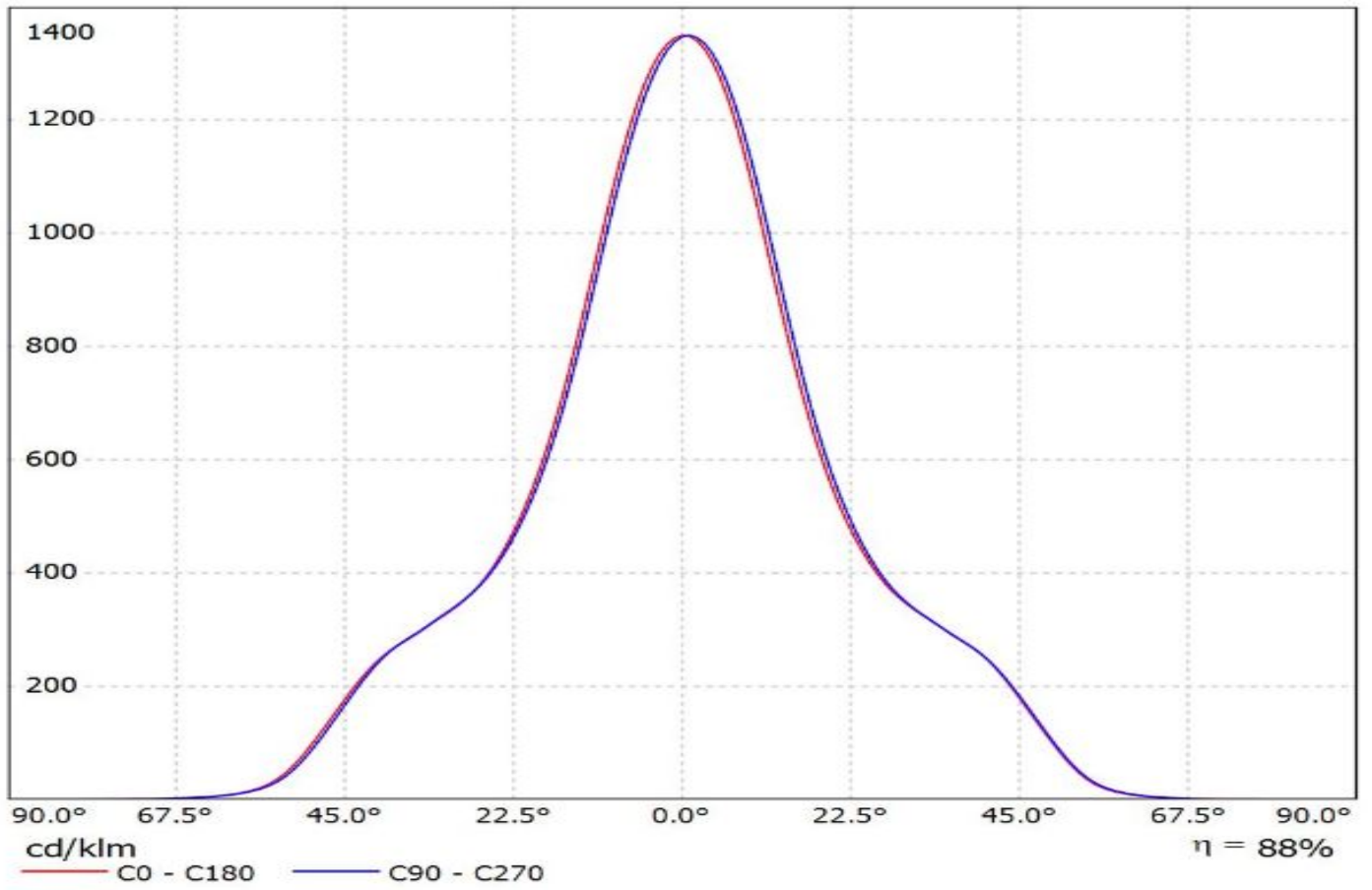
Luminaire: LEDil Oy FC13977\_ANGELINA-RZ-S-B\_(Luxeon\_K16) Efficiency=89%  
Lamps: 1 x Luxeon K16 (LXK8-PW40-0016) 1200lm @ 250mA CCT=4000K P=10.9W I=250mA





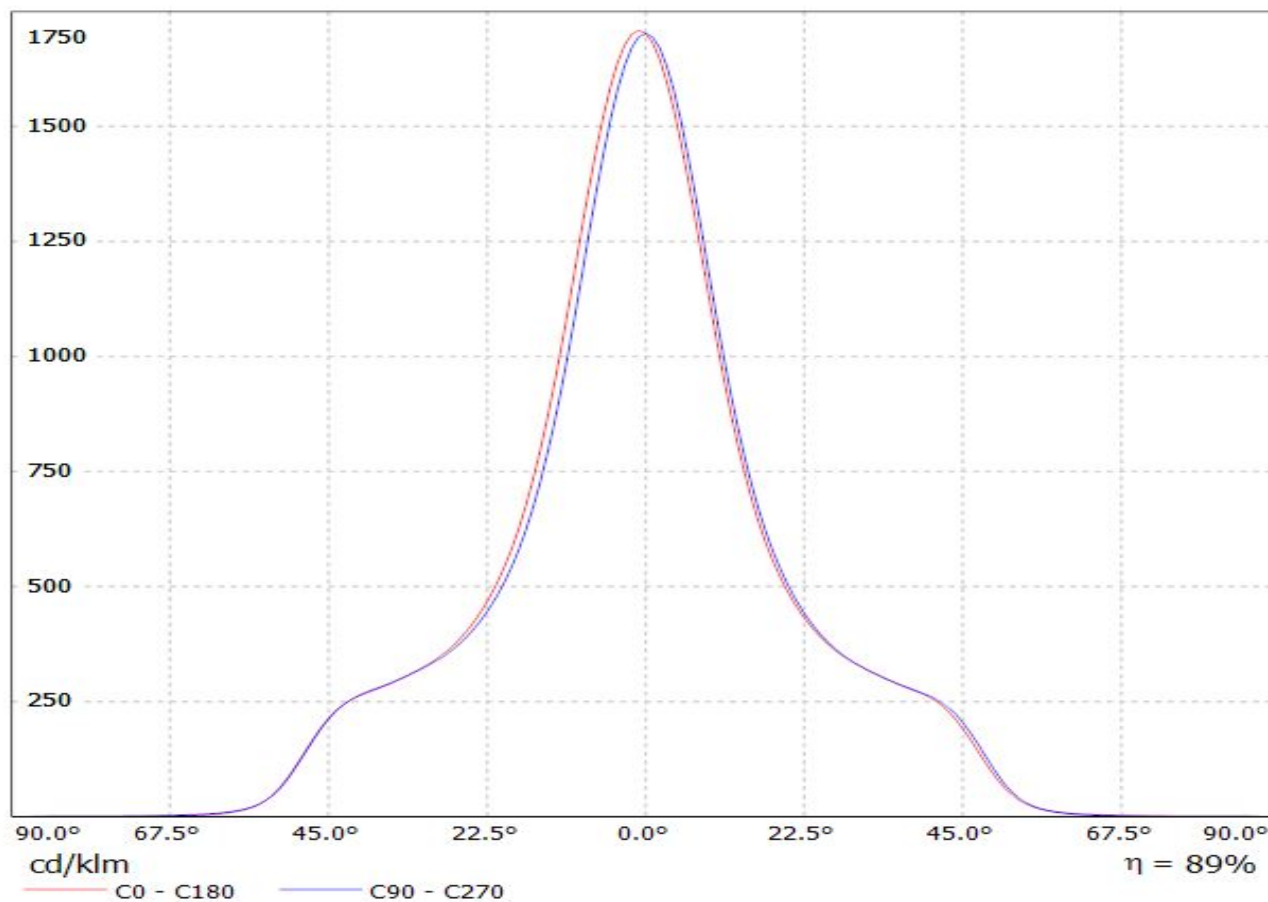
Luminaire: Ledil FC13977\_ANGELINA-RZ-S-B\_(CoB\_1216)

Lamps: 1 x Luxeon\_CoB\_1216\_(L2C2-40801216E2300)\_1478.81lm@250mA\_P=8.0033W\_I=0.25A



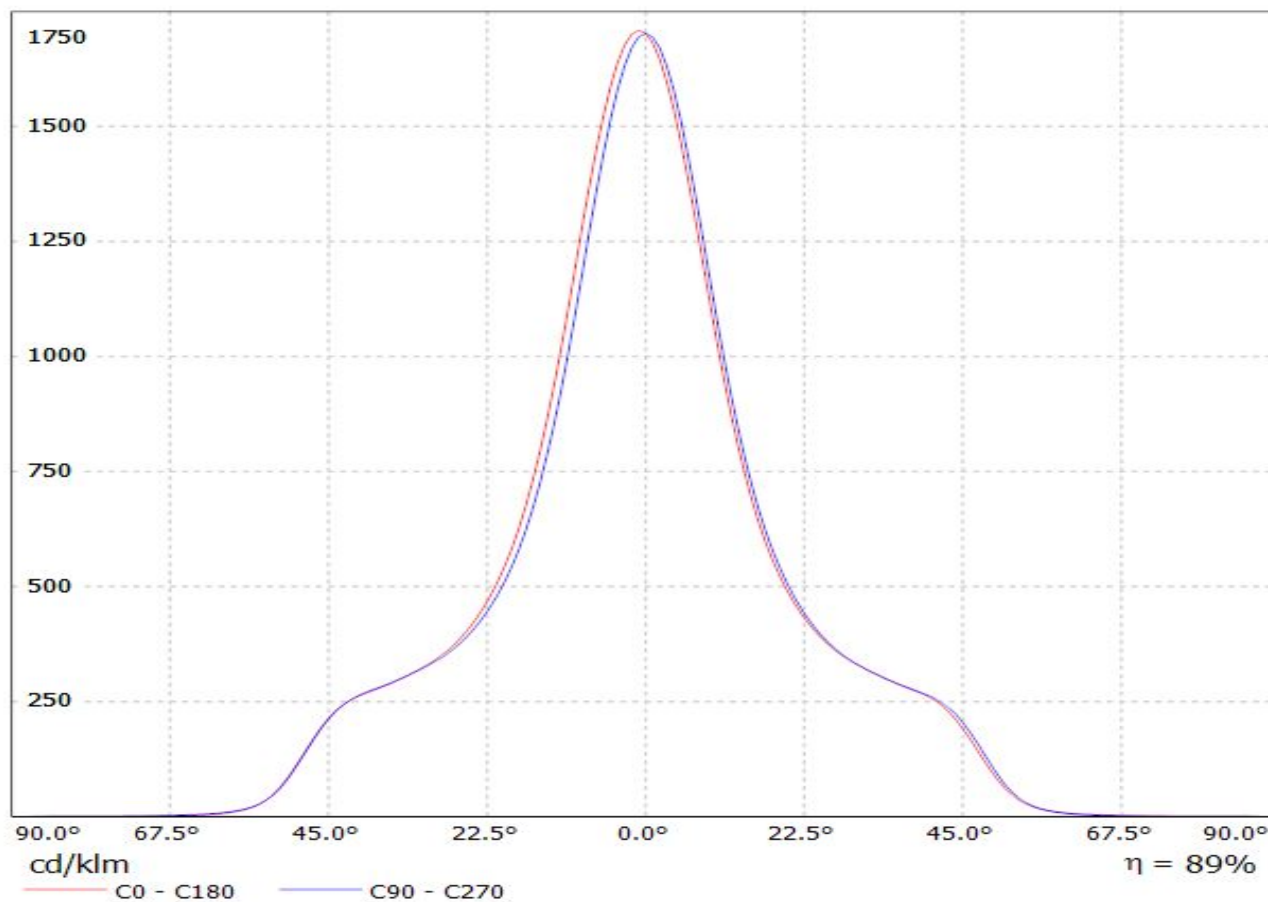
Luminaire: LEDiL Oy FC13977\_ANGELINA-RZ-S-B\_(COB\_D\_14,5mm)

Lamps: 1 x Samsung\_COB\_D\_Series-LES-14,5\_LC026D\_1296.34lm@250mA\_CCT=3000K\_P=8.1225W\_I=0.250A

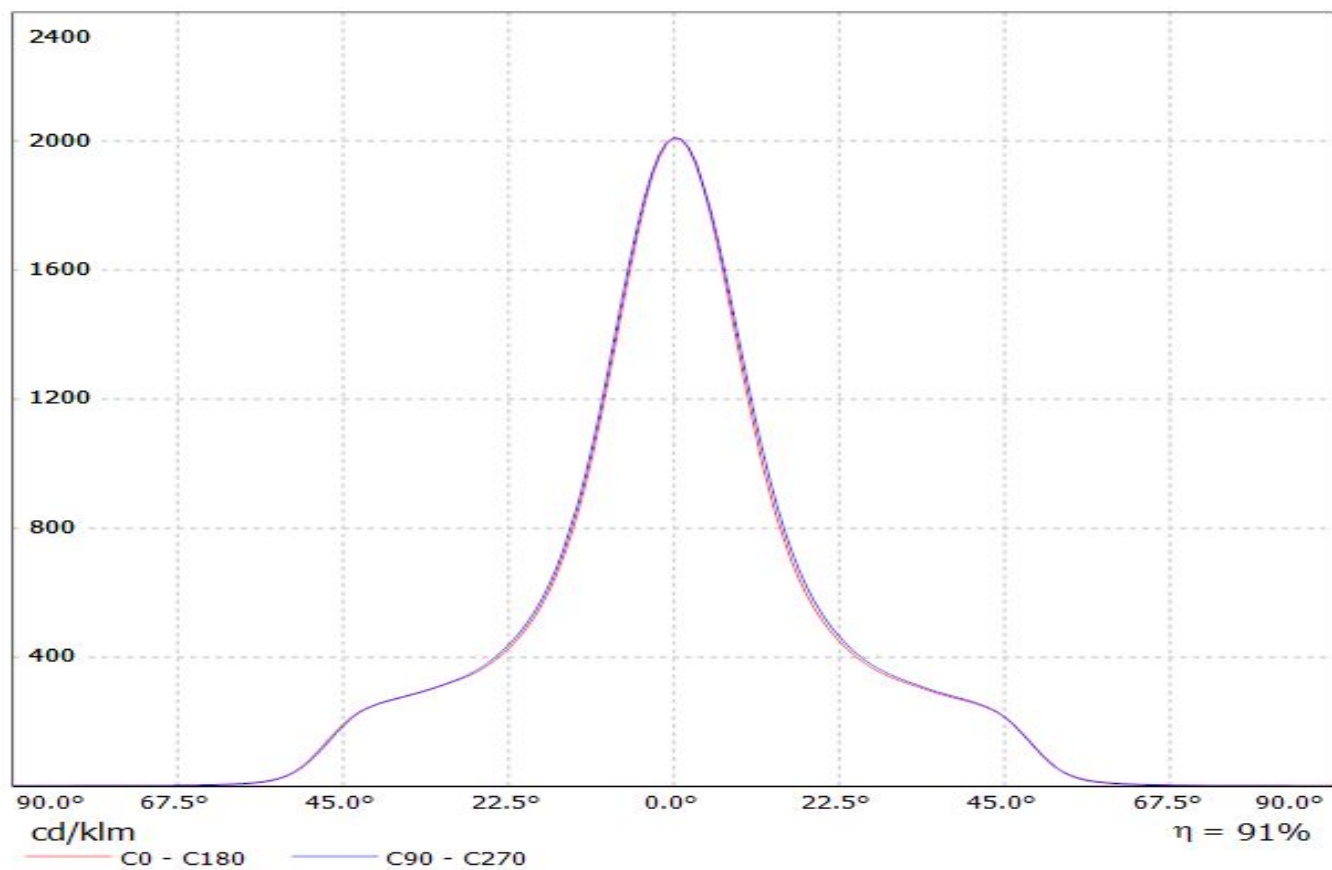


Luminaire: LEDiL Oy FC13977\_ANGELINA-RZ-S-B\_(COB\_D\_14,5mm)

Lamps: 1 x Samsung\_COB\_D\_Series-LES-14,5\_LC026D\_1296.34lm@250mA\_CCT=3000K\_P=8.1225W\_I=0.250A

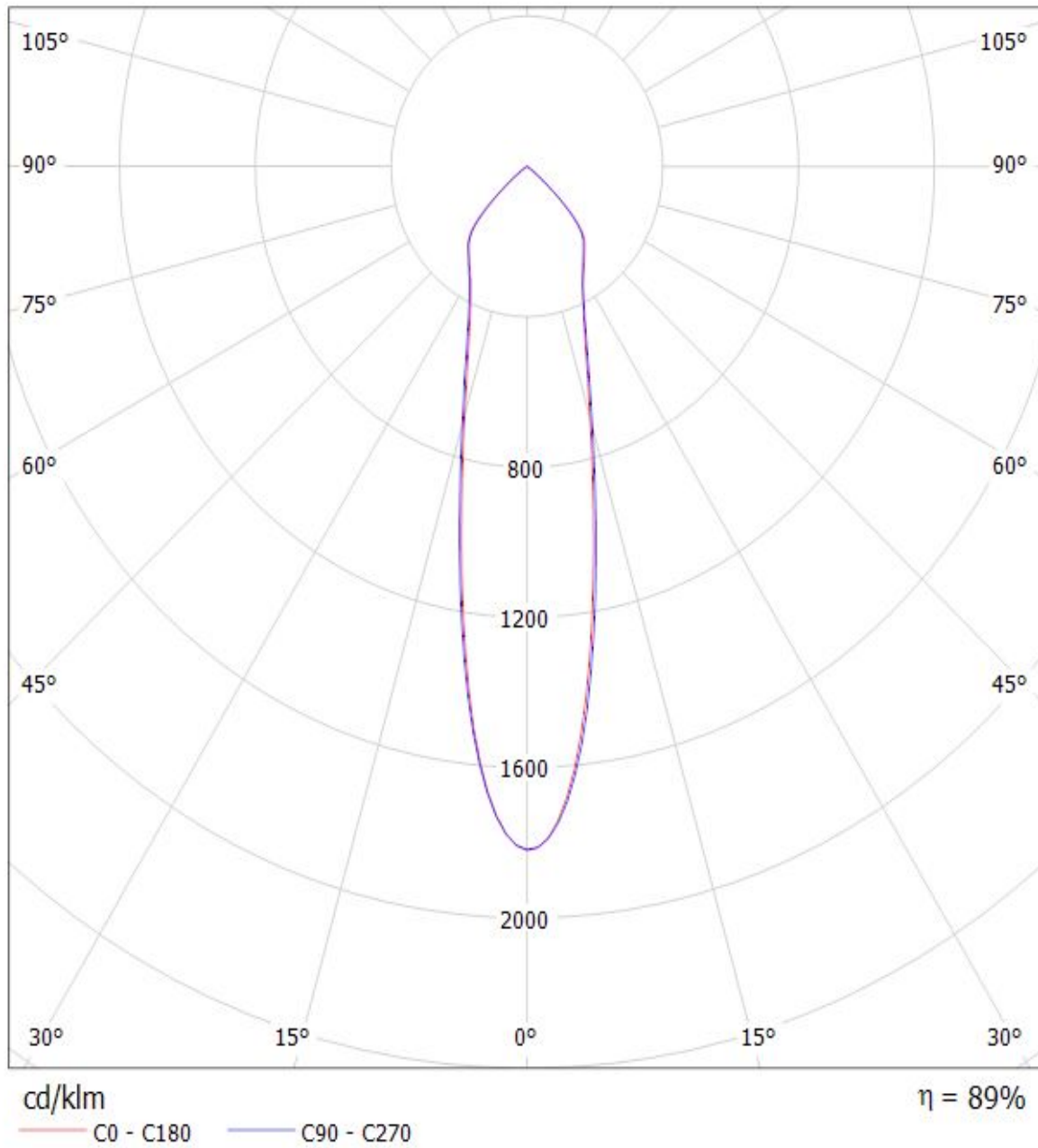


Luminaire: LEDiL Oy FC13977\_ANGELINA-RZ-S-B\_(Tiger) Eff.91%  
Lamps: 1 x SHARP TIGER\_ZENIGATA\_(GW6TGCBG4FD)\_836.646lm@250mA\_P=8.31759W\_I=249.8mA

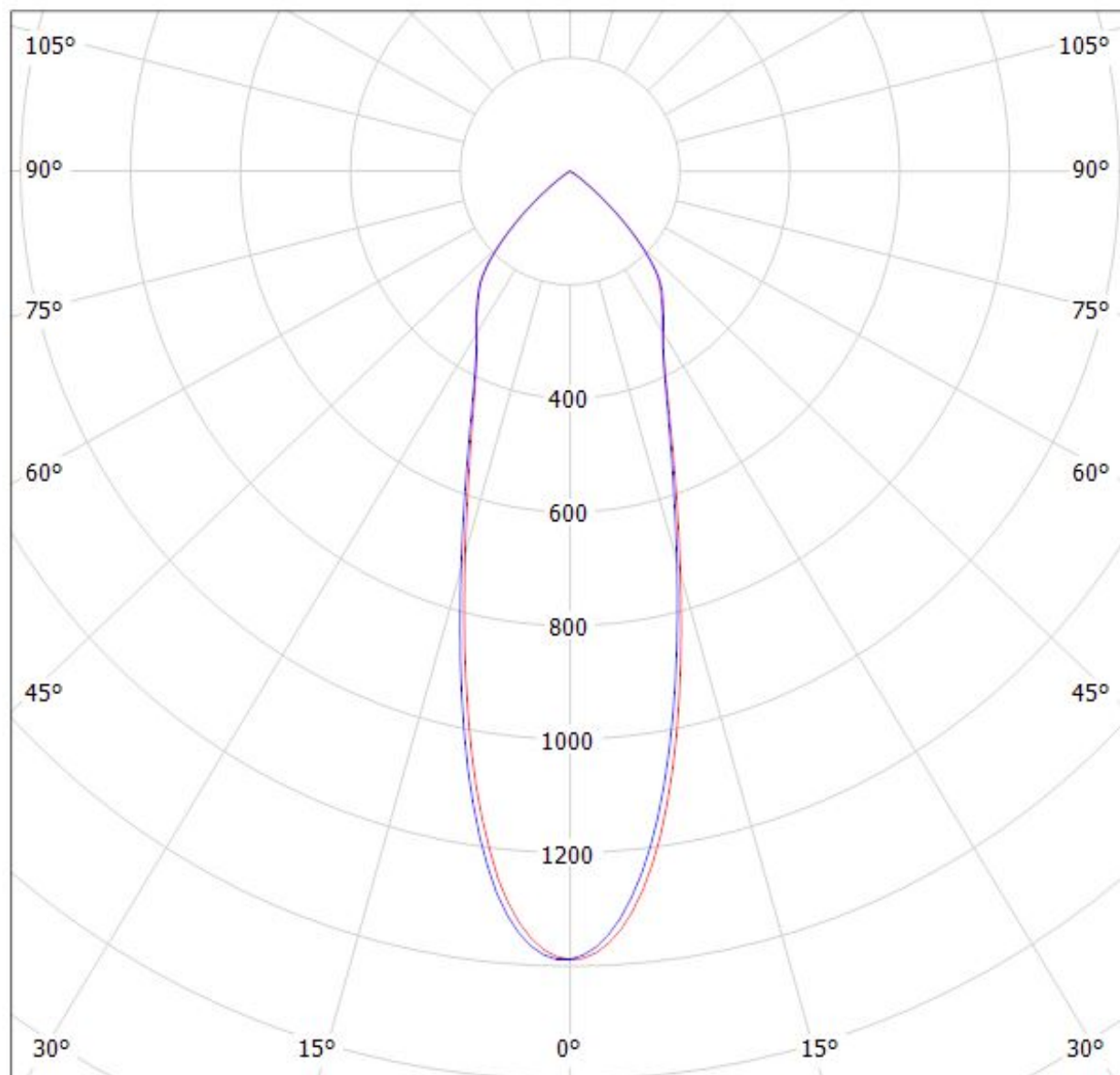


Luminaire: LEDiL Oy FC13977\_ANGELINA-RZ-S-B\_(CLU034)\_(Stucchi\_8101-G2)

Lamps: 1 x Citizen\_CLU034\_(CLU034-1205B8-303M1A2)\_+\_ (Stucchi\_8101/G2)\_1150.05lm@250mA\_P=8.45123W\_I=0.250A



Luminaire: LEDiL Oy FC13977\_ANGELINA-RZ-S-B\_(CLU044)\_+\_ (Stucchi\_8102-G2)  
Lamps: 1 x Citizen\_CLU044\_(1212B8-303M1A2)\_+\_ (Stucchi\_8102/G2)\_1291.68lm@250mA\_P=8.13748W\_I=0.250A

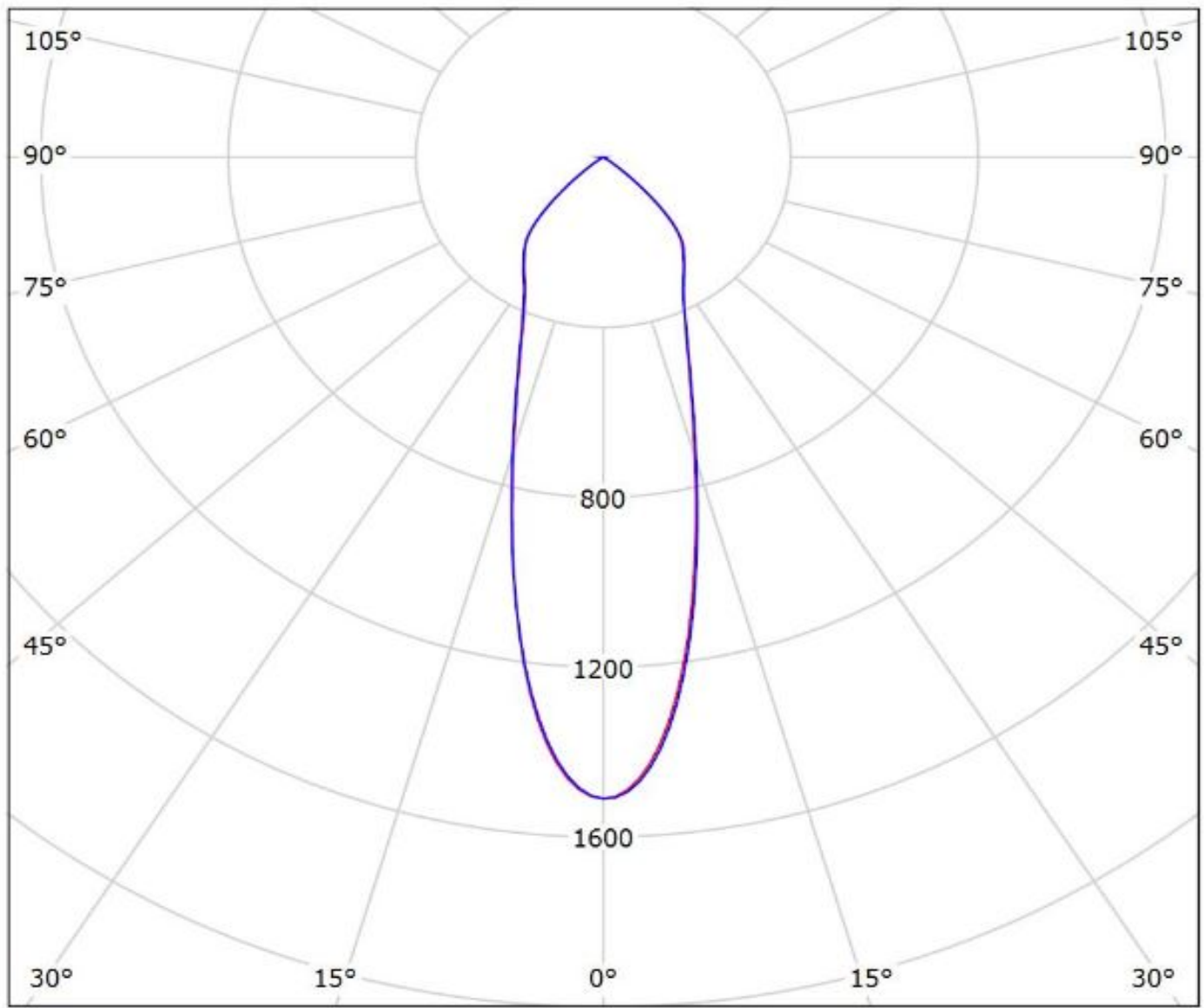


cd/klm

$\eta = 88\%$

— C0 - C180    — C90 - C270

Luminaire: Ledil FC13977\_ANGELINA-RZ-S-B\_(CXB2540+\_BJB\_47.319.2140)  
Lamps: 1 x CREE\_CXB2540\_(-40G-W4-N0H-00002)  
+\_BJB\_47.319.2140\_1412.99lm@250mA\_CCT=40000K\_P=8.1310W\_I=0.25A

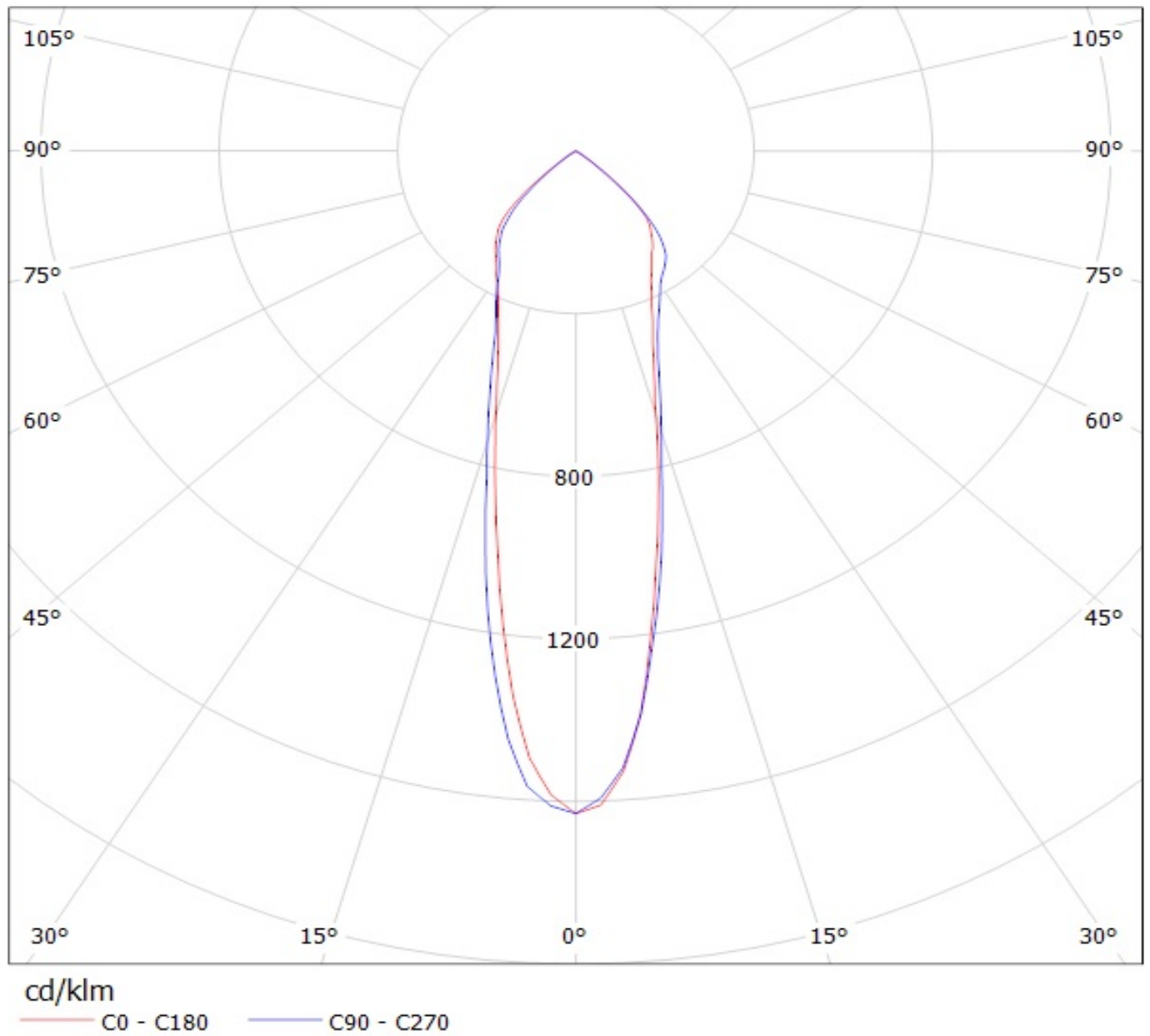


cd/klm

— C0 - C180 — C90 - C270

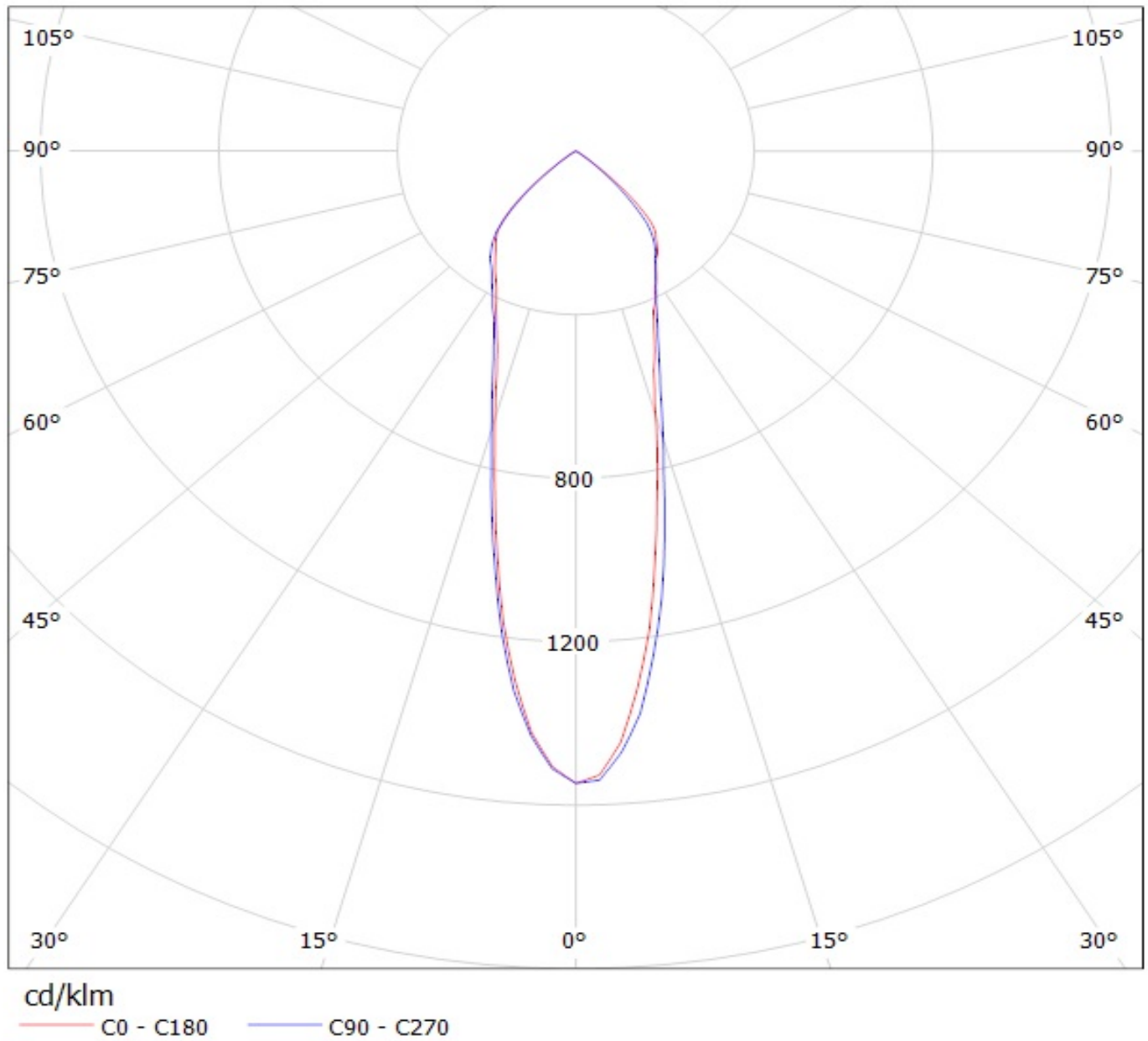
$\eta = 88\%$

Luminaire: LEDil Oy FC13977\_ANGELINA-RZ-S-B\_(Luxeon\_K12) Efficiency=89%  
Lamps: 1 x Luxeon K12 (LXK8-PW40-0012) 930 lm @ 250mA CCT=4000K P=8.2W I=250mA



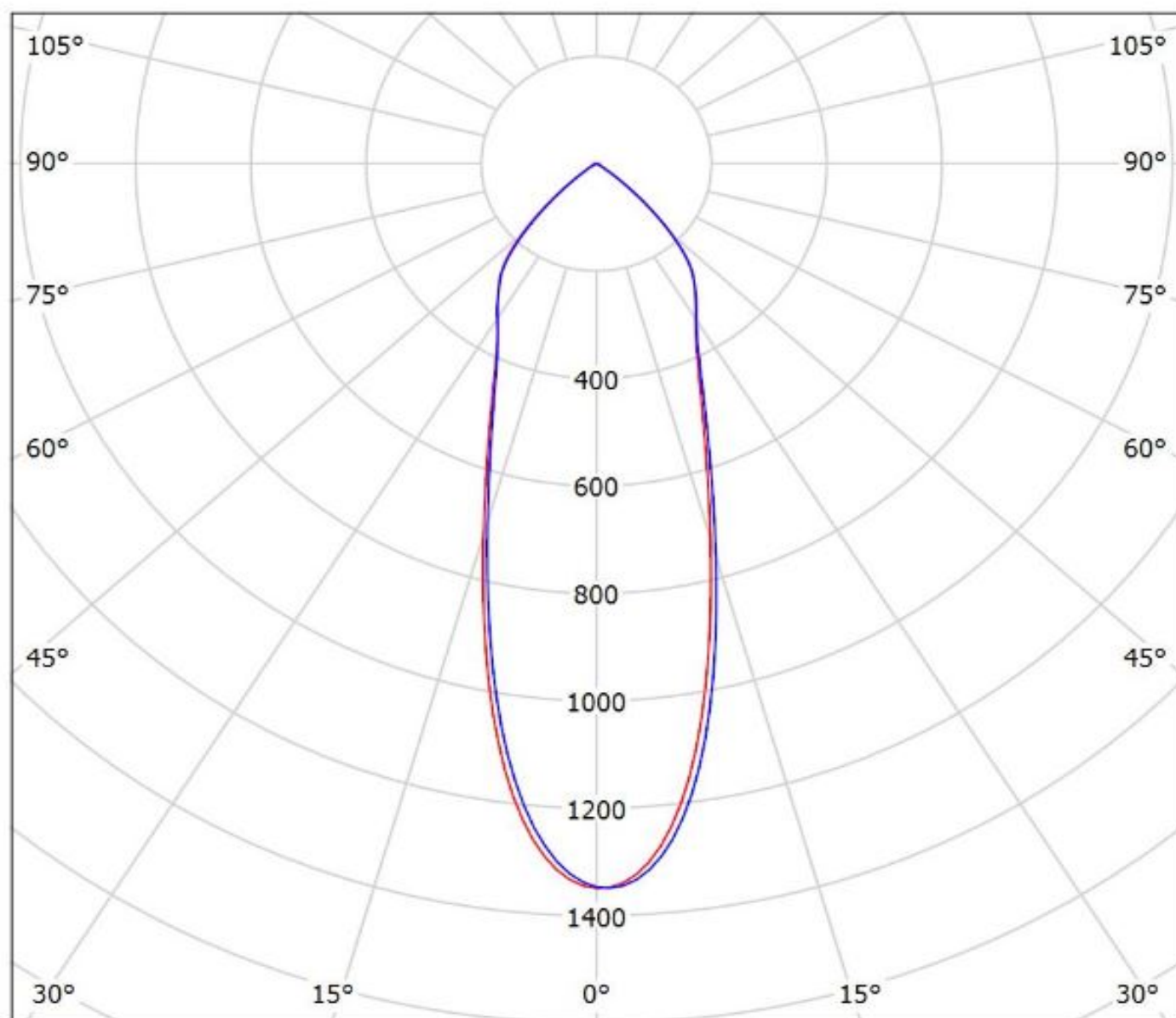


Luminaire: LEDil Oy FC13977\_ANGELINA-RZ-S-B\_(Luxeon\_K16) Efficiency=89%  
Lamps: 1 x Luxeon K16 (LXK8-PW40-0016) 1200lm @ 250mA CCT=4000K P=10.9W I=250mA



Luminaire: Ledil FC13977\_ANGELINA-RZ-S-B\_(CoB\_1216)

Lamps: 1 x Luxeon\_CoB\_1216\_(L2C2-40801216E2300)\_1478.81lm@250mA\_P=8.0033W\_I=0.25A



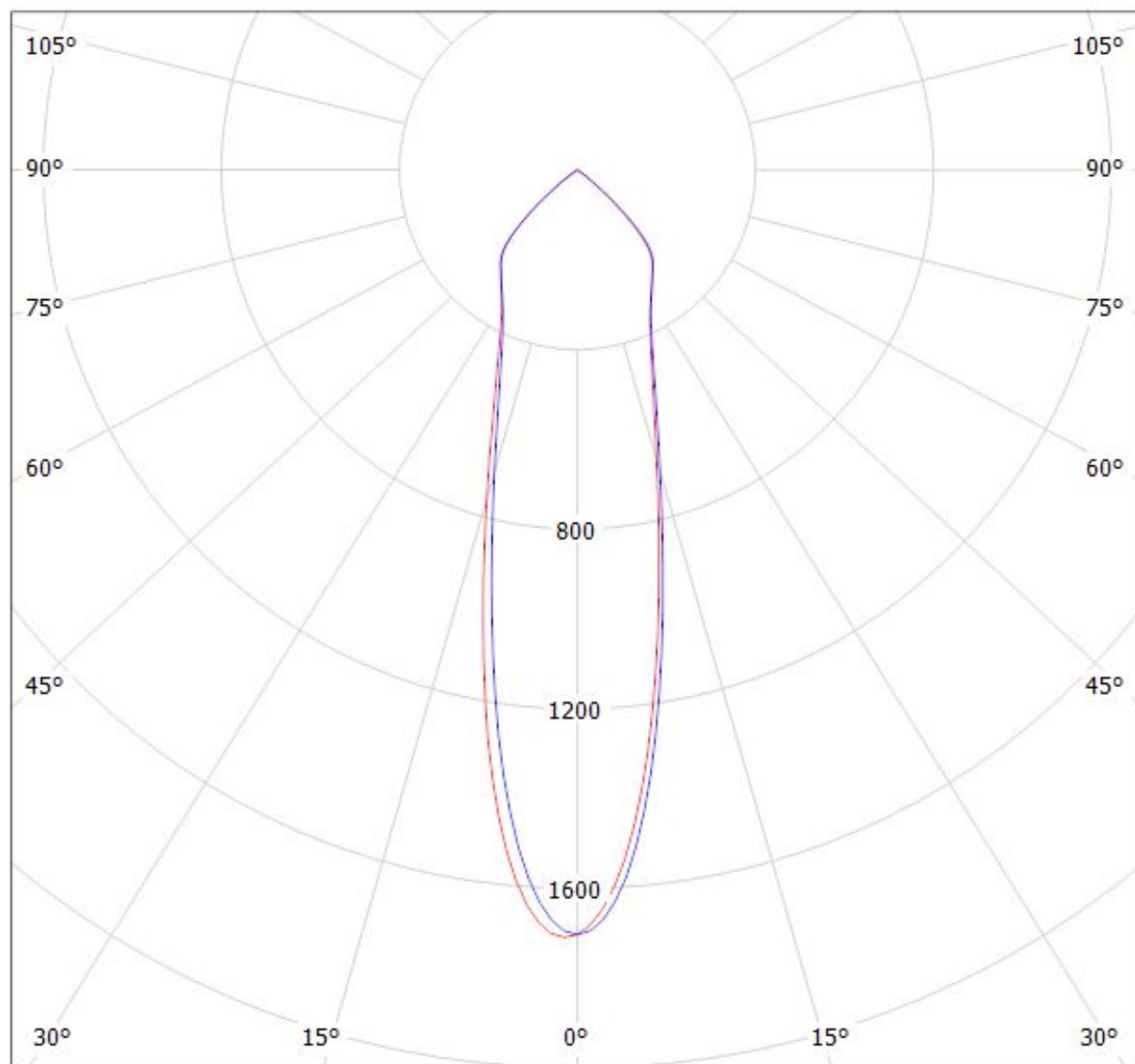
cd/klm

— C0 - C180

— C90 - C270

$\eta = 88\%$

Luminaire: LEDiL Oy FC13977\_ANGELINA-RZ-S-B\_(COB\_D\_14,5mm)  
Lamps: 1 x Samsung\_COB\_D\_Series-LES-14,5\_LC026D\_1296.34lm@250mA\_CCT=3000K\_P=8.1225W\_I=0.250A

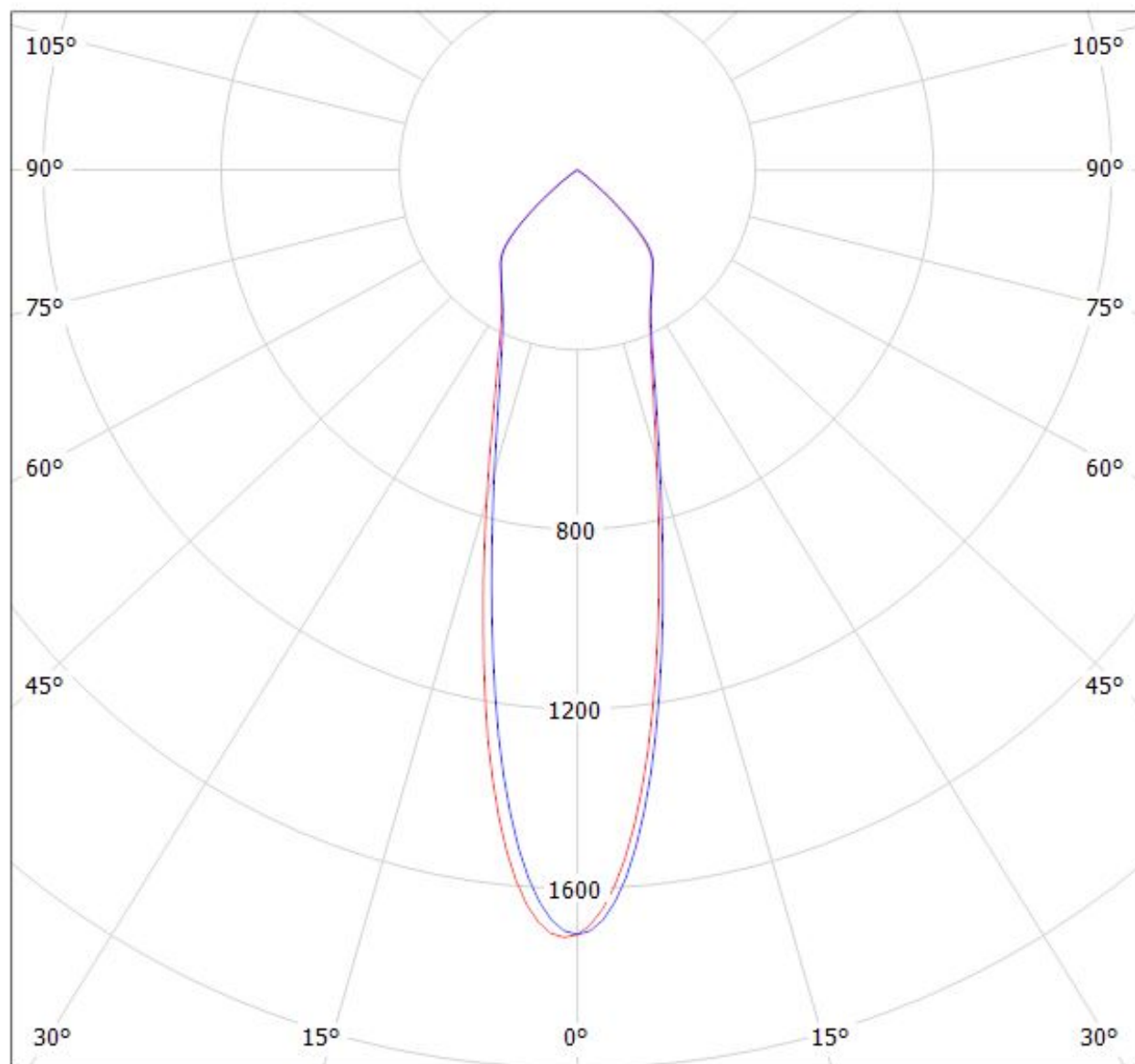


cd/klm

— C0 - C180    — C90 - C270

$\eta = 89\%$

Luminaire: LEDiL Oy FC13977\_ANGELINA-RZ-S-B\_(COB\_D\_14,5mm)  
Lamps: 1 x Samsung\_COB\_D\_Series-LES-14,5\_LC026D\_1296.34lm@250mA\_CCT=3000K\_P=8.1225W\_I=0.250A

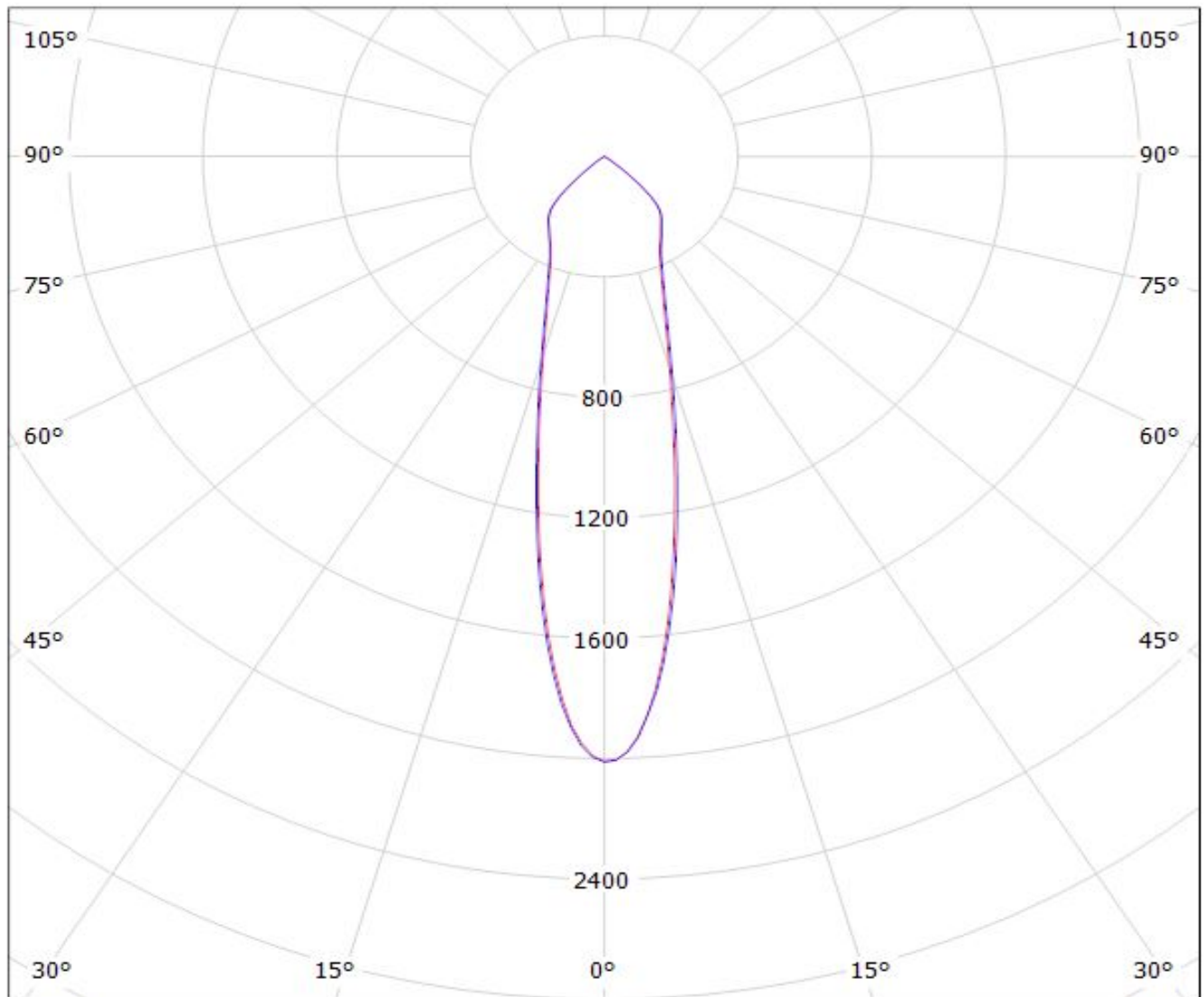


cd/klm

— C0 - C180    — C90 - C270

$\eta = 89\%$

Luminaire: LEDiL Oy FC13977\_ANGELINA-RZ-S-B\_(Tiger) Eff.91%  
Lamps: 1 x SHARP TIGER\_ZENIGATA\_(GW6TGCBG4FD)\_836.646lm@250mA\_P=8.31759W\_I=249.8mA



cd/klm

— C0 - C180

— C90 - C270

$\eta = 91\%$

**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.