

## DETAILS

<b>Product Number</b>	F13840_ANGELA-XW
<b>Family</b>	ANGELA
<b>Type</b>	Reflector
<b>Color</b>	white
<b>Diameter</b>	119.5 mm
<b>Height</b>	74.5 mm
<b>Style</b>	round
<b>Optic Material</b>	PC
<b>Holder Material</b>	
<b>Fastening</b>	
<b>Status</b>	ready
<b>ROHS Compliant</b>	Yes
<b>Date Updated</b>	13/05/2014



## OPTICAL PROPERTIES

LED	Viewing Angle	Light Beam	Efficiency	cd/lm	connector
PrevaLED Core Z4 LES19	71 degrees		93 %	0.650	Z50 Optic Clip part n r. 2213194-1 TE
LUXEON CoB 1208	71 degrees		93 %	0.600	-
STARK SLE G3 LES19	71 degrees		93 %	0.600	-
STARK SLE G3 LES23	71 degrees		93 %	0.600	-
CXA35	72 degrees		94 %	0.610	50-2303CR + Angela(50 -2300AN) IDEAL
CXM-14	72 degrees		93 %	0.630	TE: Solderless connec tor part nr 2213254-2 + Z50
Optic Clip part nr. 2213194-1 TE	72 degrees		92 %	0.600	Z50 Optic Clip part n r. 2213194-1 TE
WU-M-462	72 degrees		92 %	0.600	Z50 Optic Clip part n r. 2213194-1 TE
LUXEON CoB 1204/1205	72 degrees		93 %	0.600	-
Soleriq S13	72 degrees		93 %	0.630	Solderless connector part nr. 2213401-2 + Z50
Optic Clip part nr. 2213194-1 TE	72 degrees		92 %	0.630	Solderless connector part nr. 2213407-2 + Z50
Optic Clip part nr. 2213194-1 TE	73 degrees		92 %	0.608	Z50 Optic Clip part n r. 2213194-1 TE
WU-M-485	73 degrees		92 %	0.600	Z50 Optic Clip part n r. 2213194-1 TE
WU-M-486	73 degrees		92 %	0.600	Z50 Optic Clip part n r. 2213194-1 TE
WU-M-464	73 degrees		92 %	0.600	Z50 Optic Clip part n r. 2213194-1 TE



**PRODUCT DATASHEET**  
**ANGELA series**  
last update 7/5/2014

NSBxL121A/NFCxL060B

73 degrees

94 %

0.630

Solderless connector



**PRODUCT DATASHEET**  
**ANGELA series**  
last update 7/5/2014

part nr. 180580-0005 Molex

H

G

F

E

D

C

4

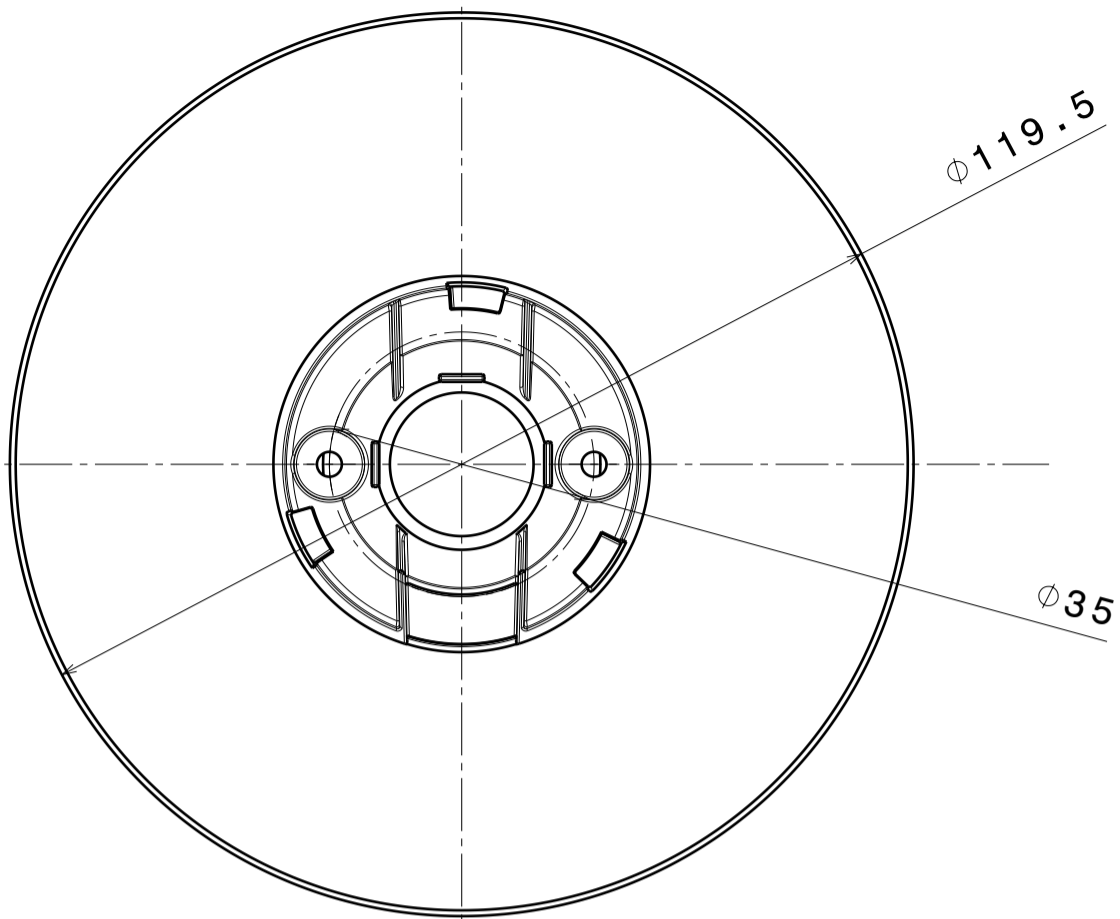
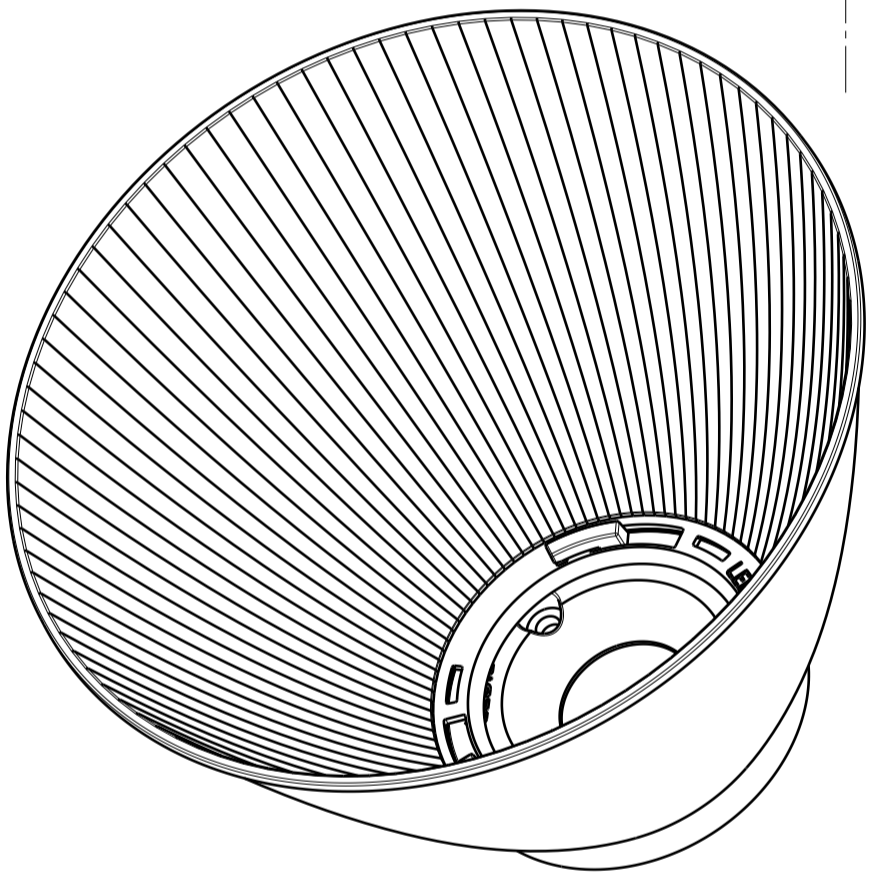
3

2

1

H

G



WITH LEDI  
 WITH TYCO  
 WITH LEDI

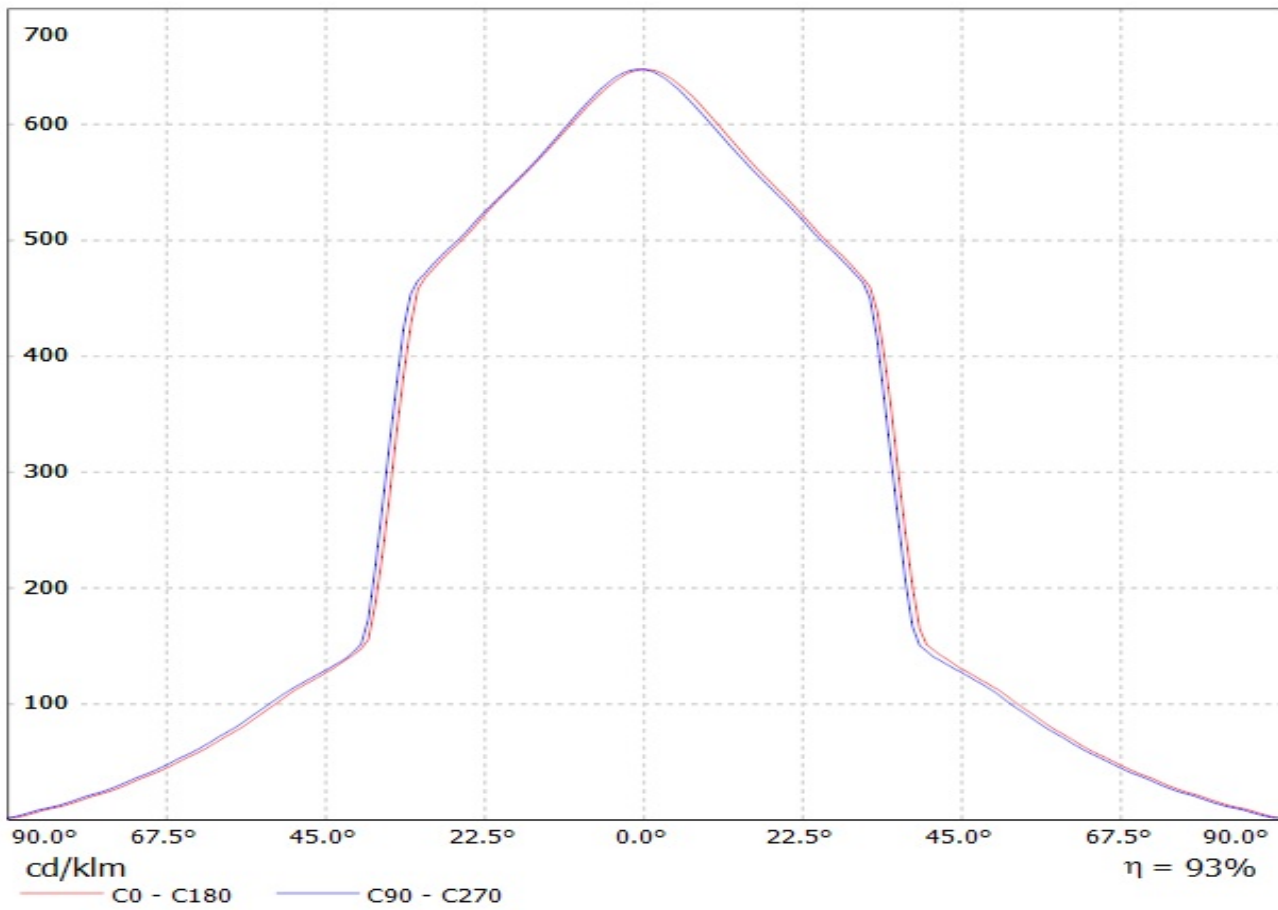
Tolerances if not otherwise shown  
 According to DIN ISO 2768-1  
 Linear measures:  
 Up to 30mm class F, otherwise class M.  
 According to DIN ISO 2768-2  
 Form and position: class K

THIRD ANGLE PROJECTION:

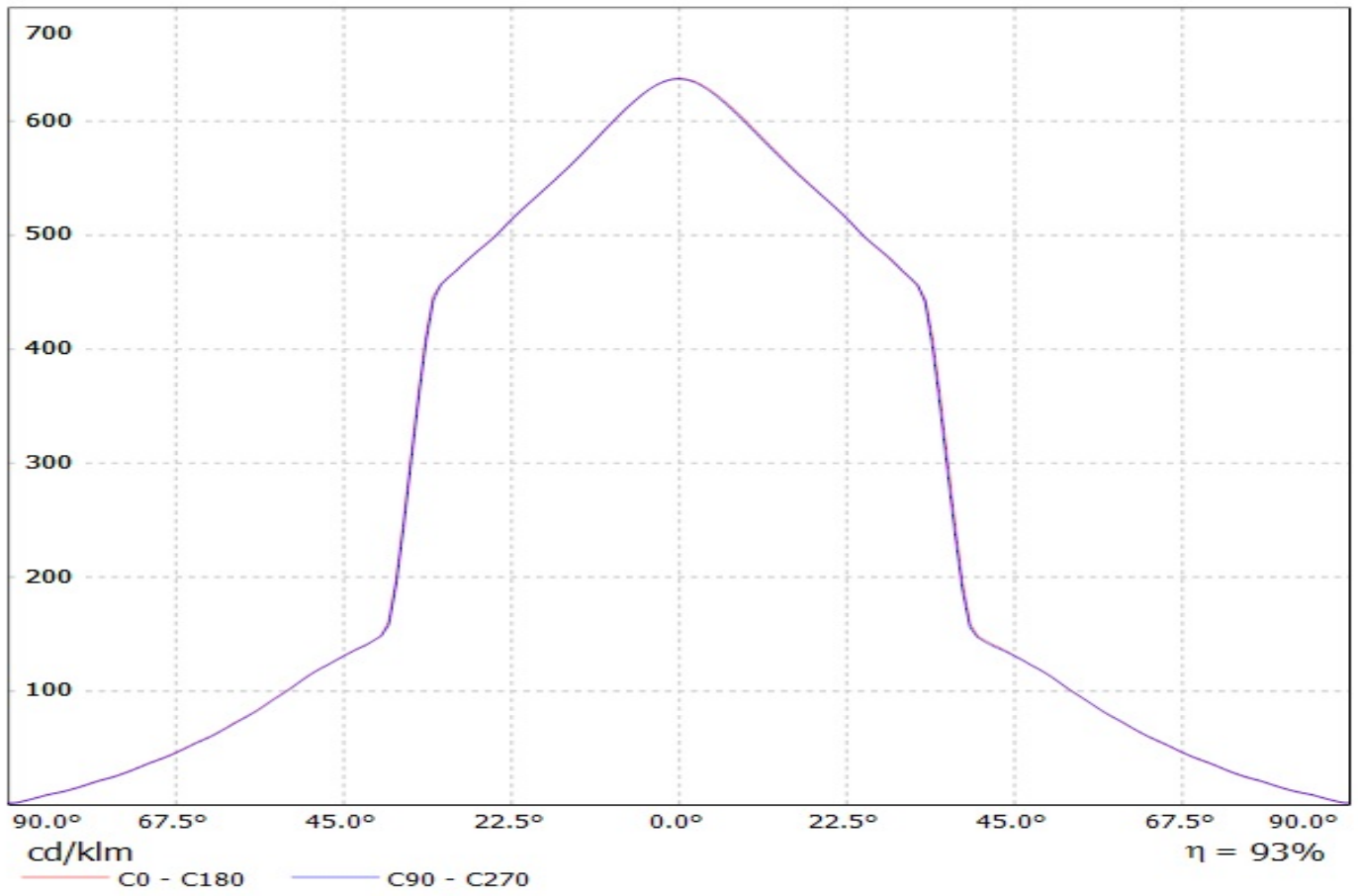
This drawing is the property of LEDiL Oy. It may not be reproduced, copied or communicated without a written agreement with LEDiL Oy."

**LED**  
 DRAWING  
 SIZE  
**A3**  
 SCALE

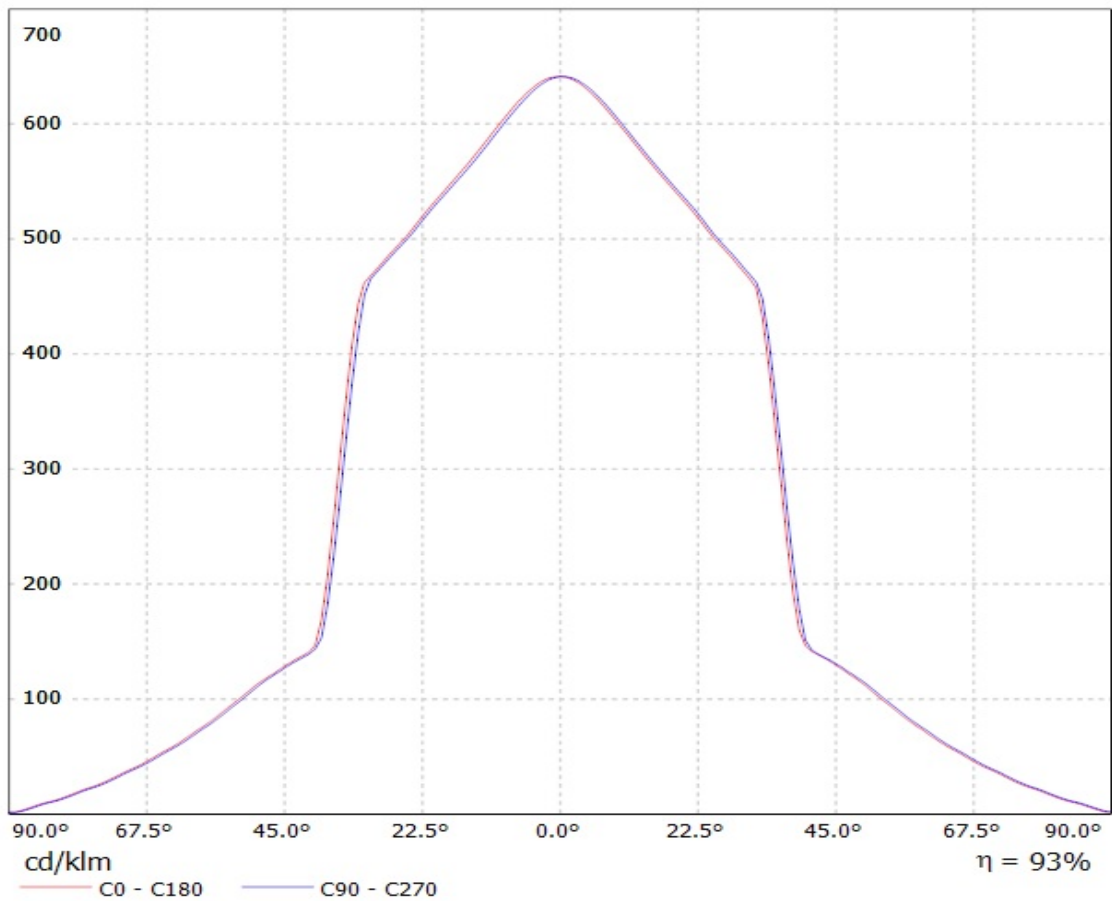
Luminaire: LEDiL Oy F13840\_ANGELA-XW\_(PrevaLED\_Z4) Eff: 93%  
Lamps: 1 x Osram\_PrevaLED\_CORE\_Z4\_(PL-CORE-3000-830-Z4)\_1423.93lm@250mA\_P=10.7652W\_I=249.9mA



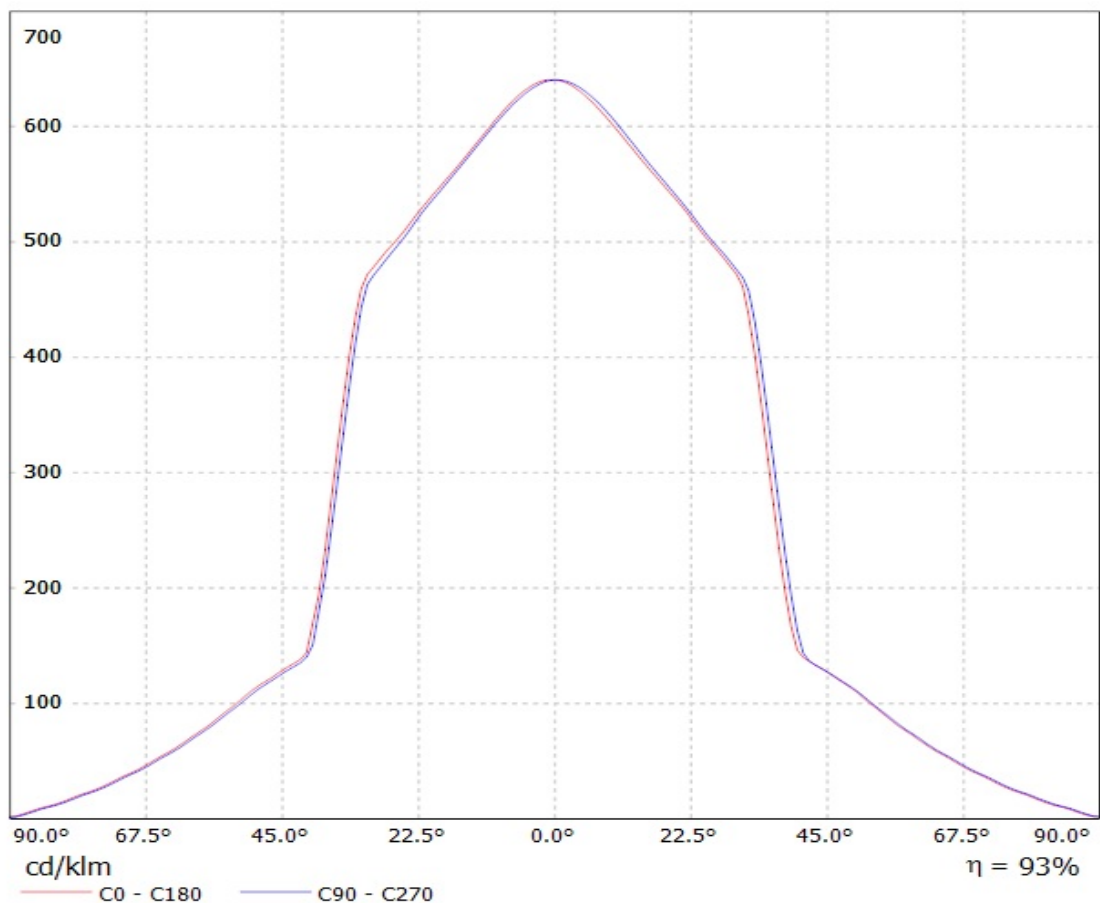
Luminaire: LEDiL Oy F13840\_ANGELA-XW\_(COB\_1208) Eff: 93%  
Lamps: 1 x Luxeon\_COB\_1208\_1037.85lm@250mA\_P=8.27294W\_I=249.9mA



Luminaire: LEDiL Oy F13840\_ANGELA-XW\_(STARK\_SLE\_G3\_LES19) Eff: 93%  
Lamps: 1 x Tridonic\_Stark\_SLE\_G3\_LES19\_(Stark-SLE-PURE-G3-19-2000-840-CLA)\_1047.27lm@250mA\_P=8.3639W\_I=249.9mA

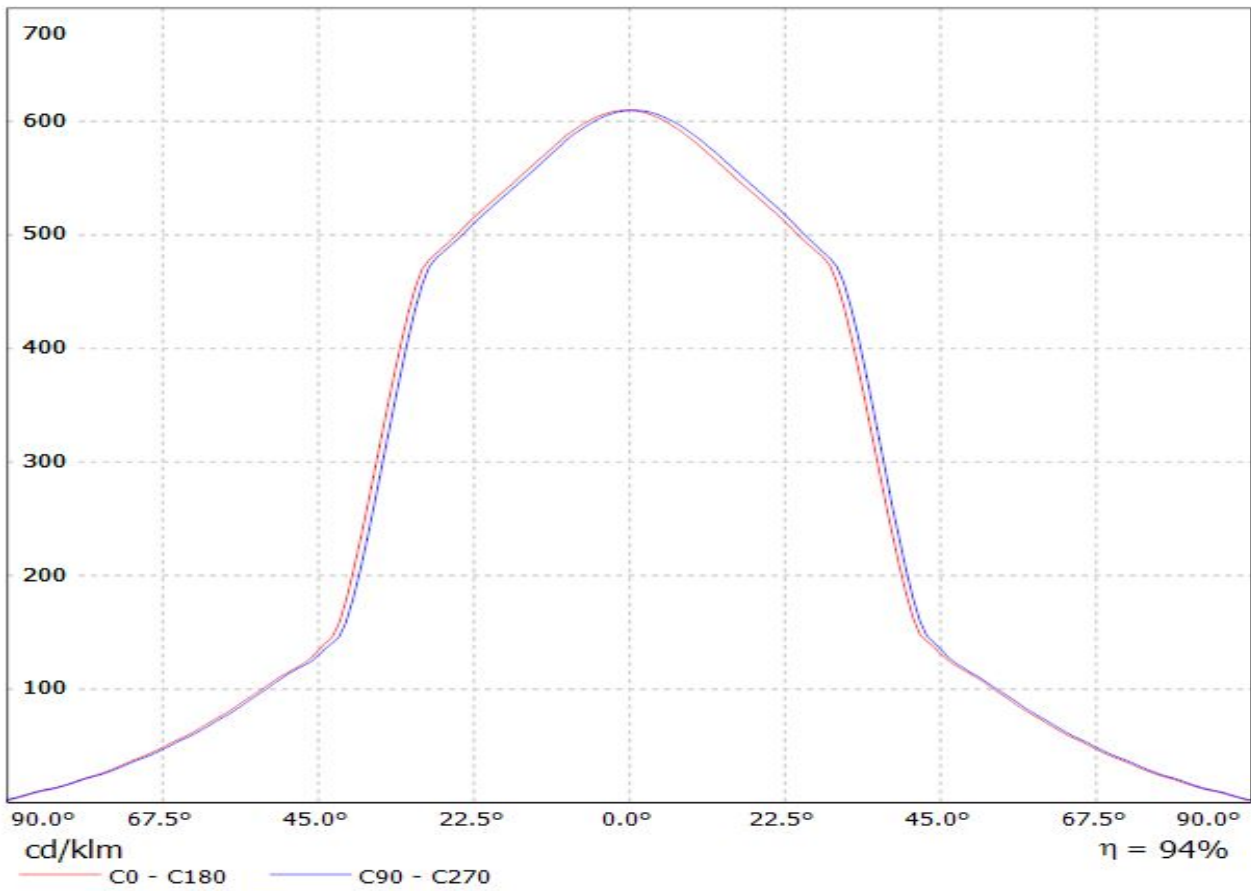


Luminaire: LEDiL Oy F13840\_ANGELA-XW\_(Stark\_SLE\_G3\_LES23) Eff: 93%  
Lamps: 1 x Tridonic\_Stark\_SLE\_G3\_LES23\_(Stark-SLE-PURE-G3-23-3000-930-SEL)\_796.507lm@250mA\_P=8.2472W\_I=249.9mA



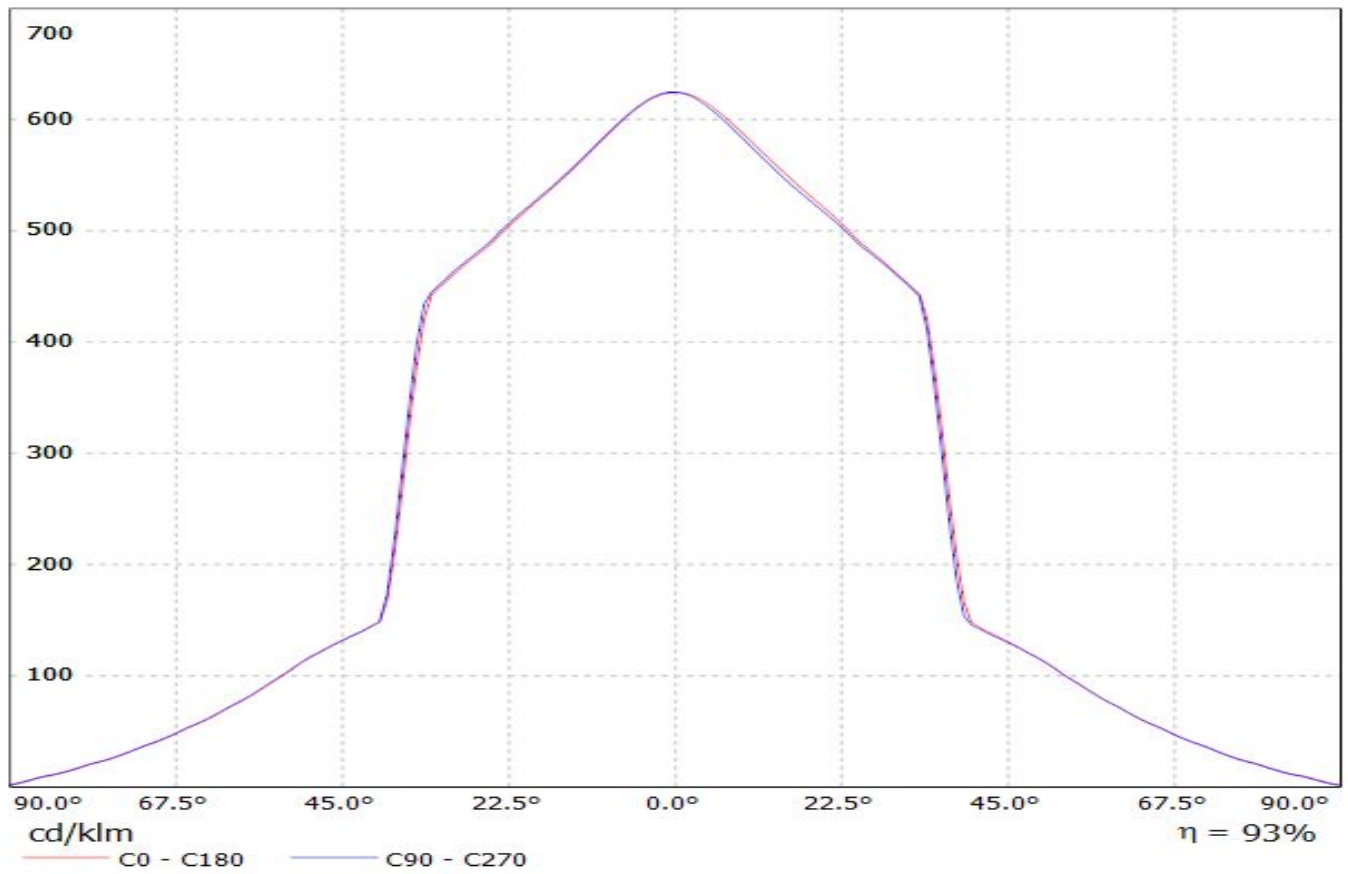


Luminaire: LEDiL Oy F13840\_ANGELA-XW\_(CXA3590)  
Lamps: 1 x CREE\_CXA3590\_(CXA3590-30F-BD-R0H-0002)\_2640.14lm@250mA\_CCT=3000K\_P=16.3941W\_I=249.1

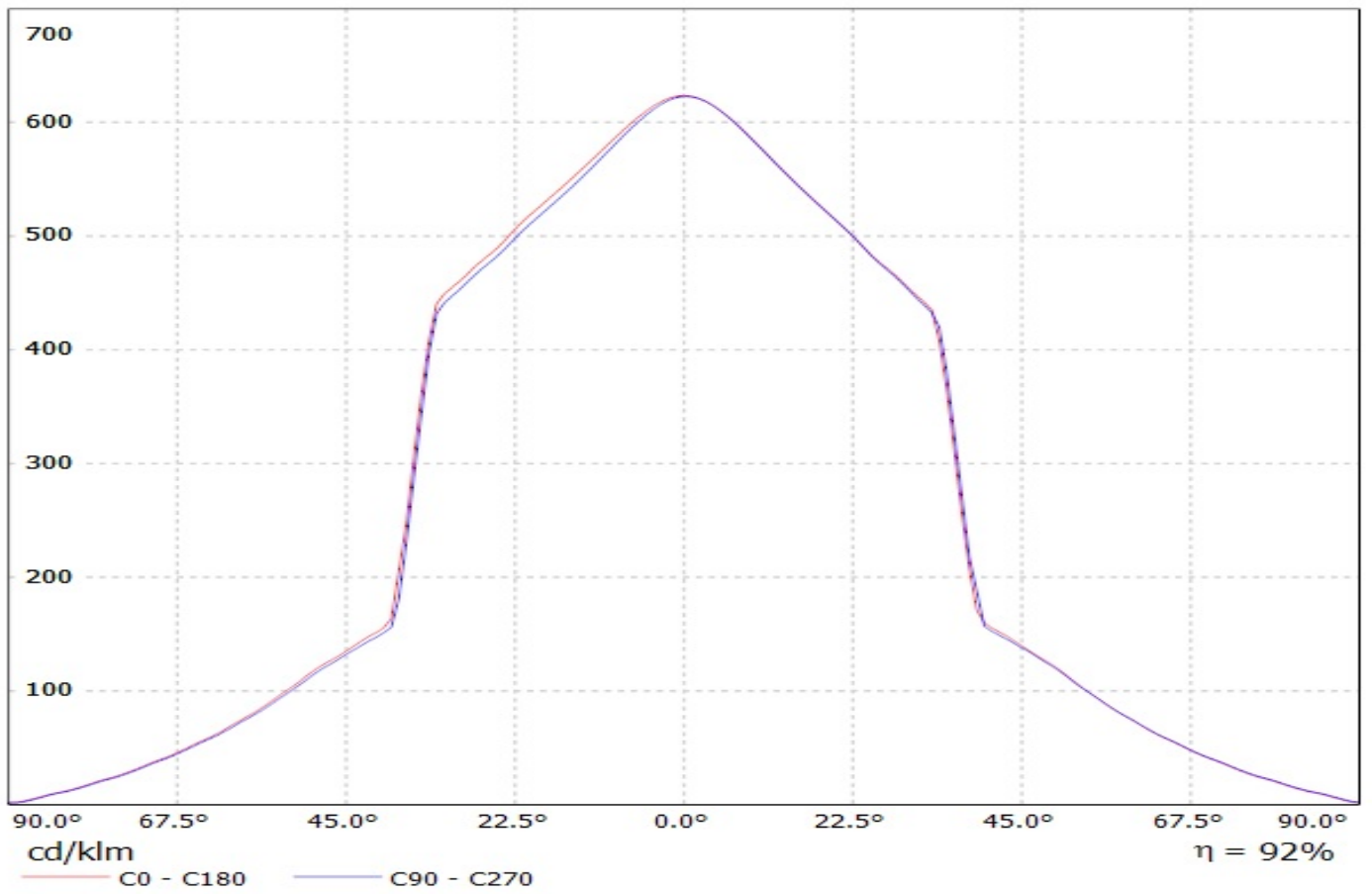


Luminaire: LEDiL Oy F13840\_ANGELA-XW\_(CXM-14)

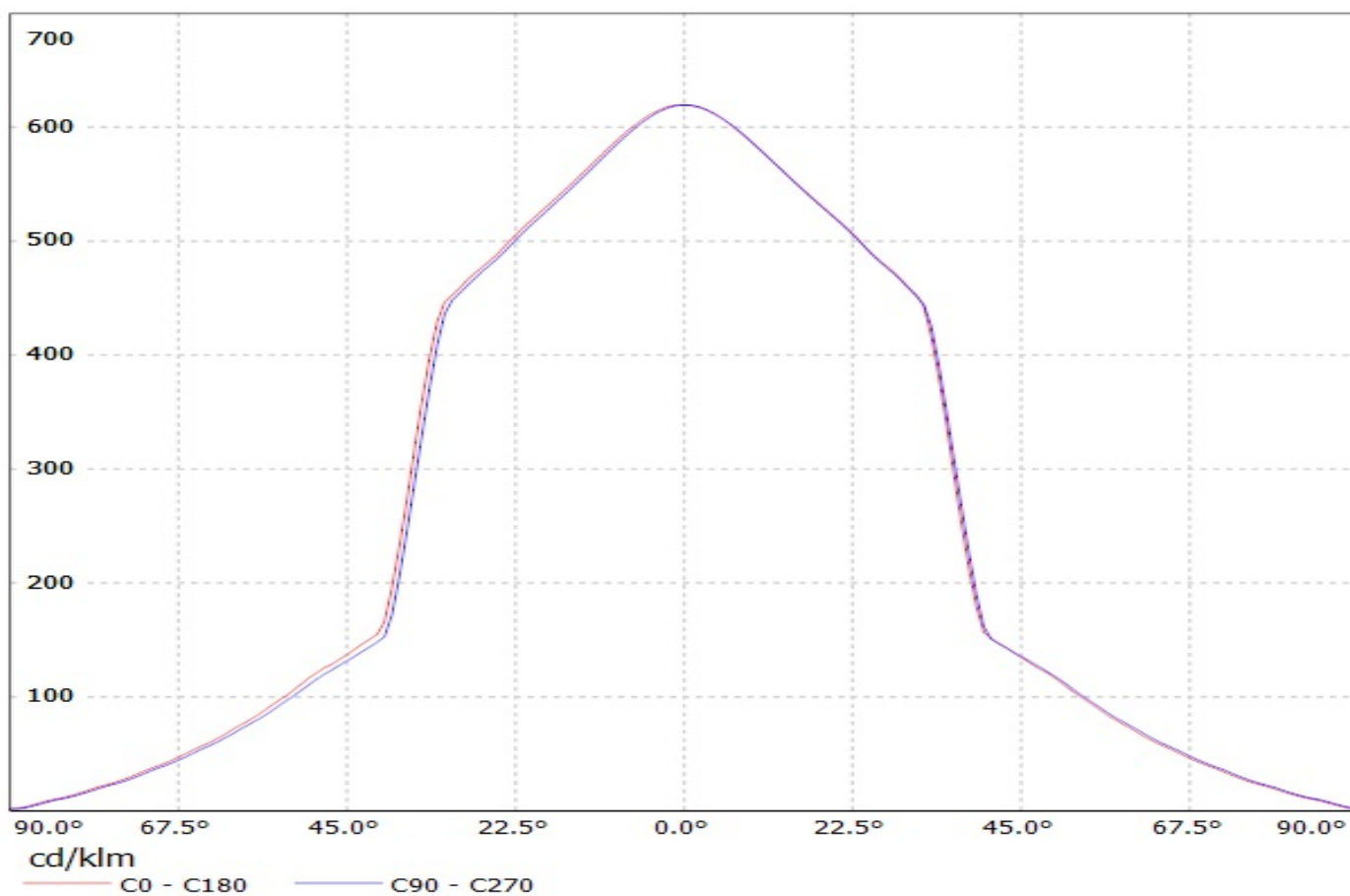
Lamps: 1 x LUMINUS\_CXM-14\_1114.36lm@250mA\_P=8.36106W\_I=249.8mA



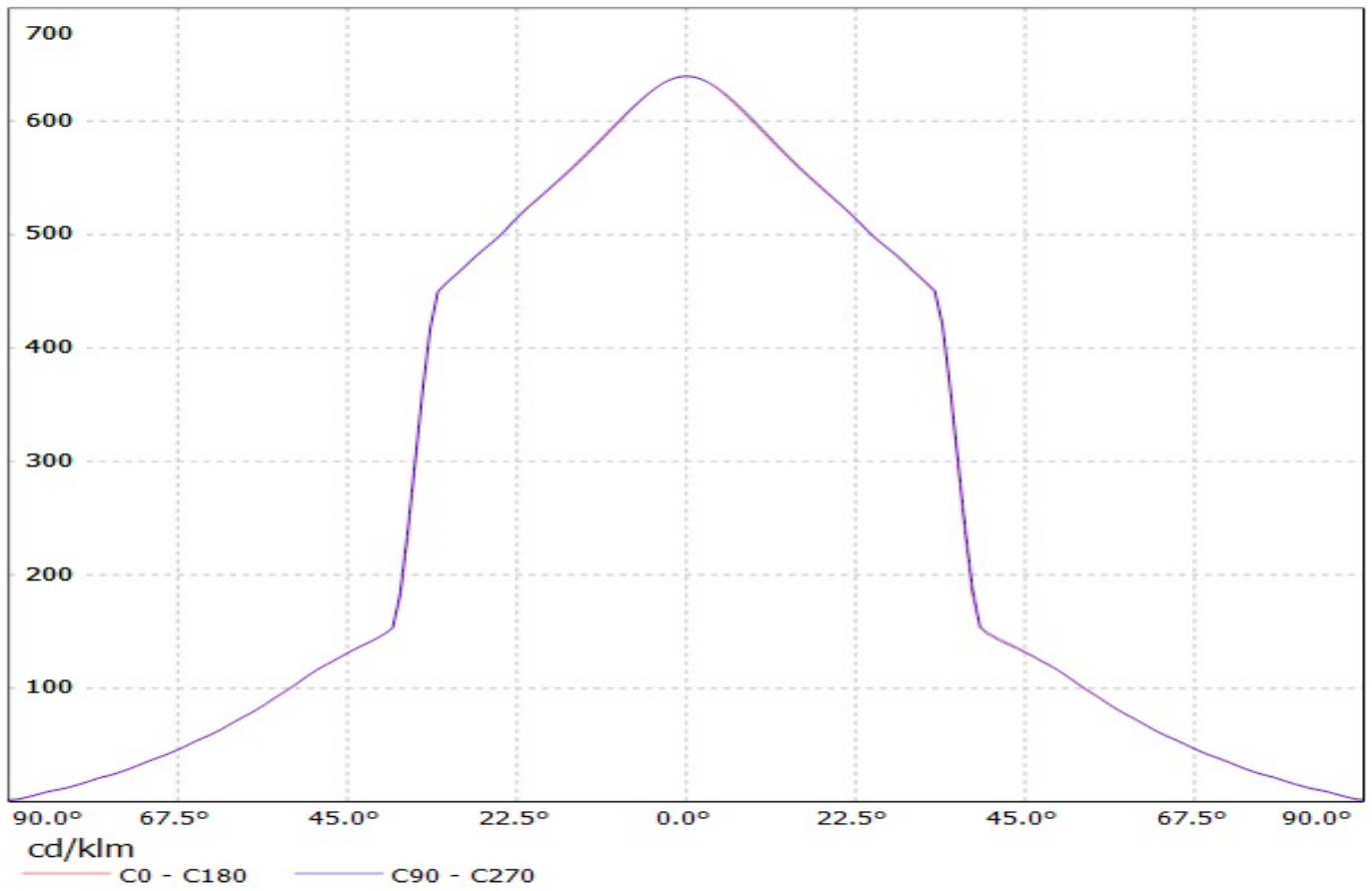
Luminaire: LEDiL Oy F13840\_ANGELA-XW\_(WU-M-461) Eff: 92%  
Lamps: 1 x Vossloh\_WU-M-461\_(WU-M-461-827)\_775.523lm@250mA\_P=6.28474W\_I=249.9mA



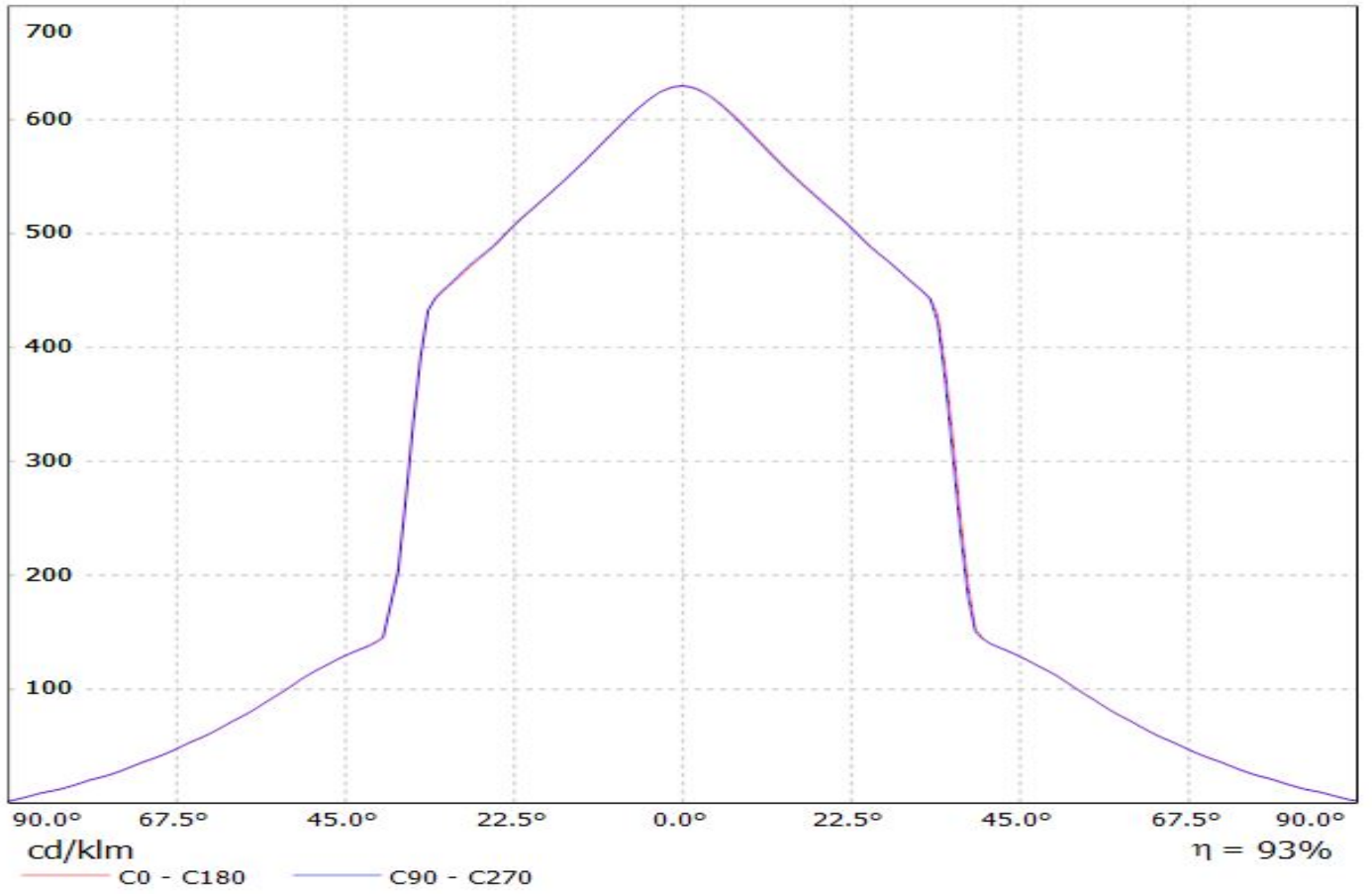
Luminaire: LEDiL Oy F13840\_ANGELA-XW\_(WU-M-462) Eff: 92%  
Lamps: 1 x Vossloh\_WU-M-462\_(WU-M-462-827)\_1123.54lm@250mA\_P=9.02089W\_I=249.9mA



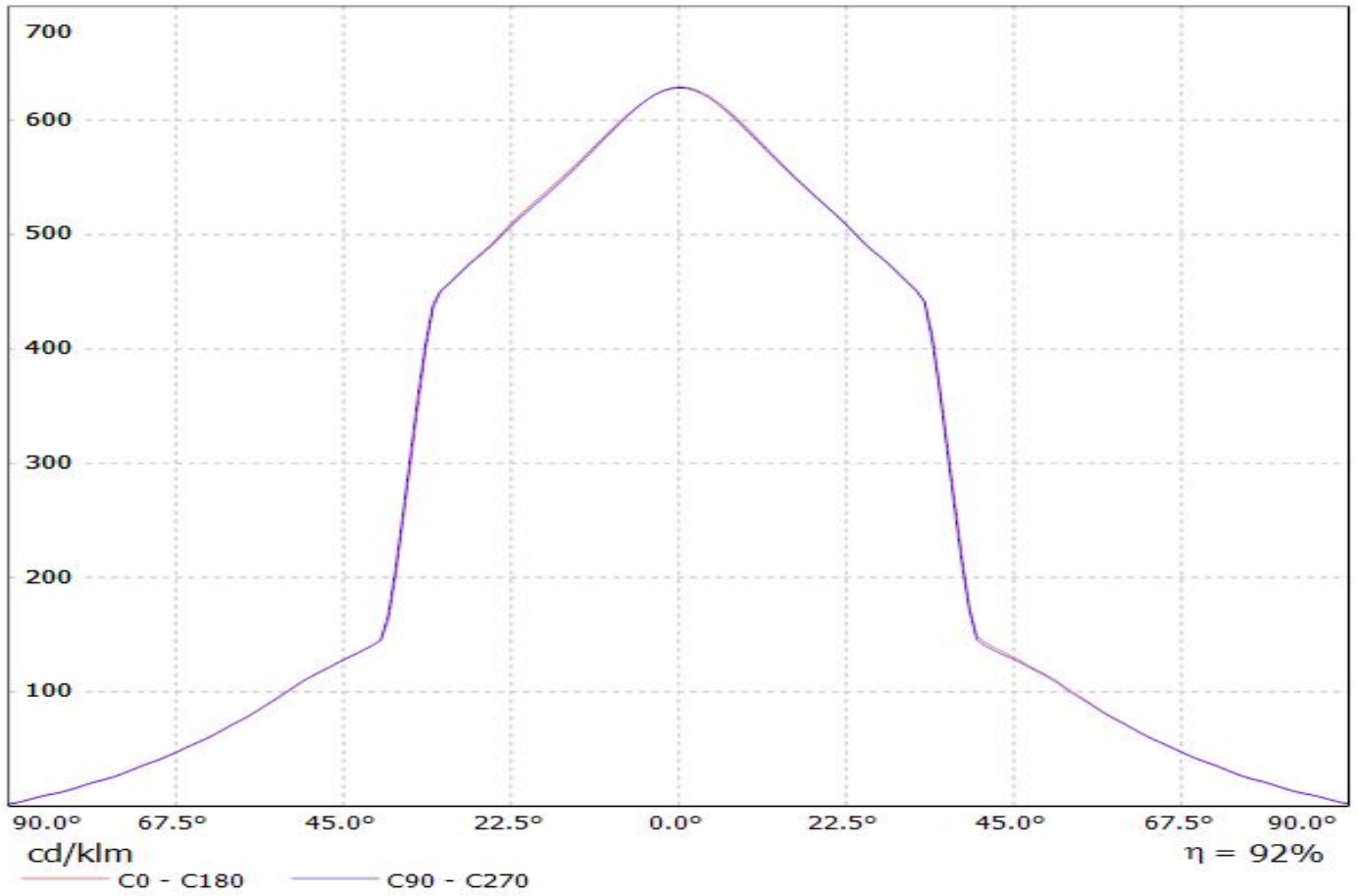
Luminaire: LEDiL Oy F13840\_ANGELA-XW\_(COB\_1205) Eff: 93%  
Lamps: 1 x Luxeon\_COB\_1205\_1088.09lm@250mA\_P=8.32942W\_I=249.9mA



Luminaire: LEDiL Oy F13840\_ANGELA-XW\_(S13) Eff.92.5%  
Lamps: 1 x Osram\_Solericq\_S13\_883.206lm@250mA\_P=7.45153W\_I=249.8mA

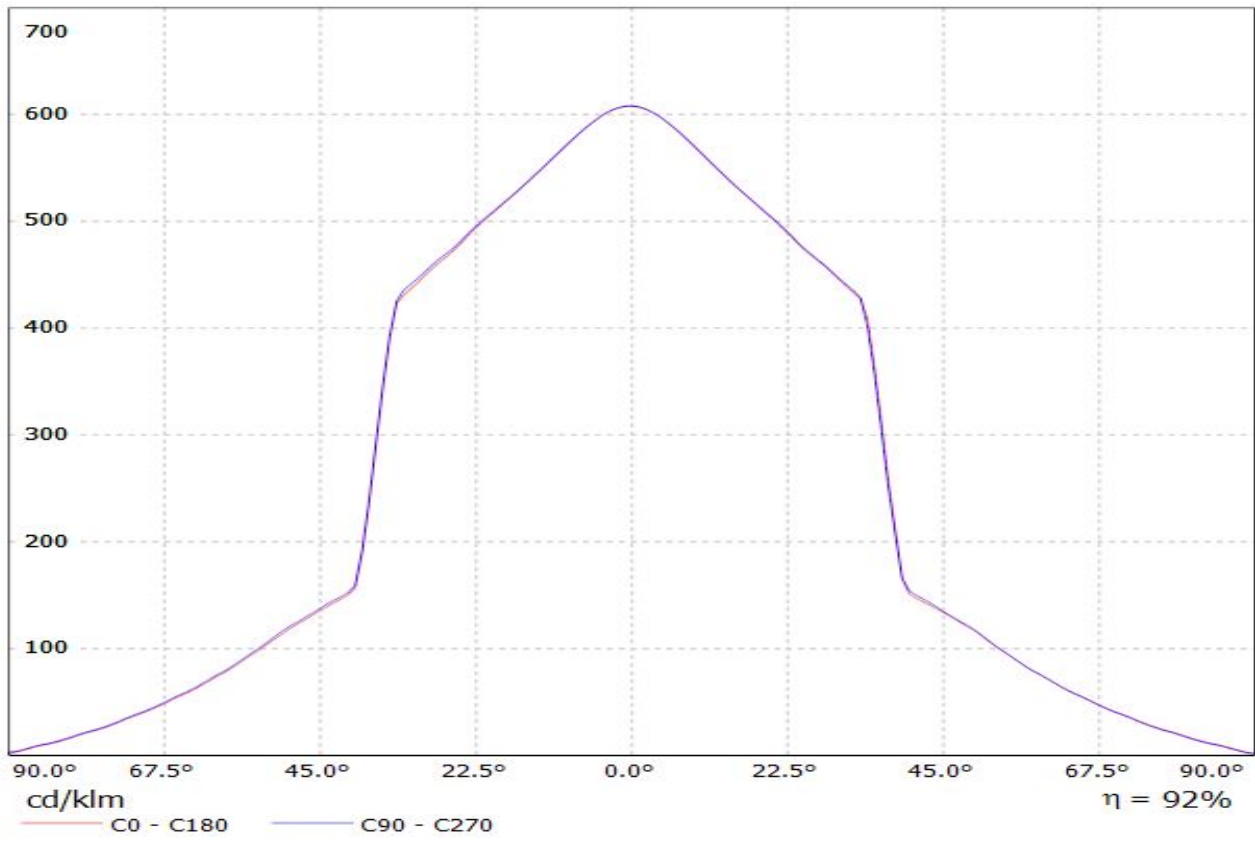


Luminaire: LEDiL Oy F13840\_ANGELA-XW\_(S19) Eff.92.4%  
Lamps: 1 x Osram\_Soleriq\_S19\_1396.23lm@250mA\_P=10.5575W\_I=249.8mA



Luminaire: LEDiL Oy F13840\_ANGELA-XW

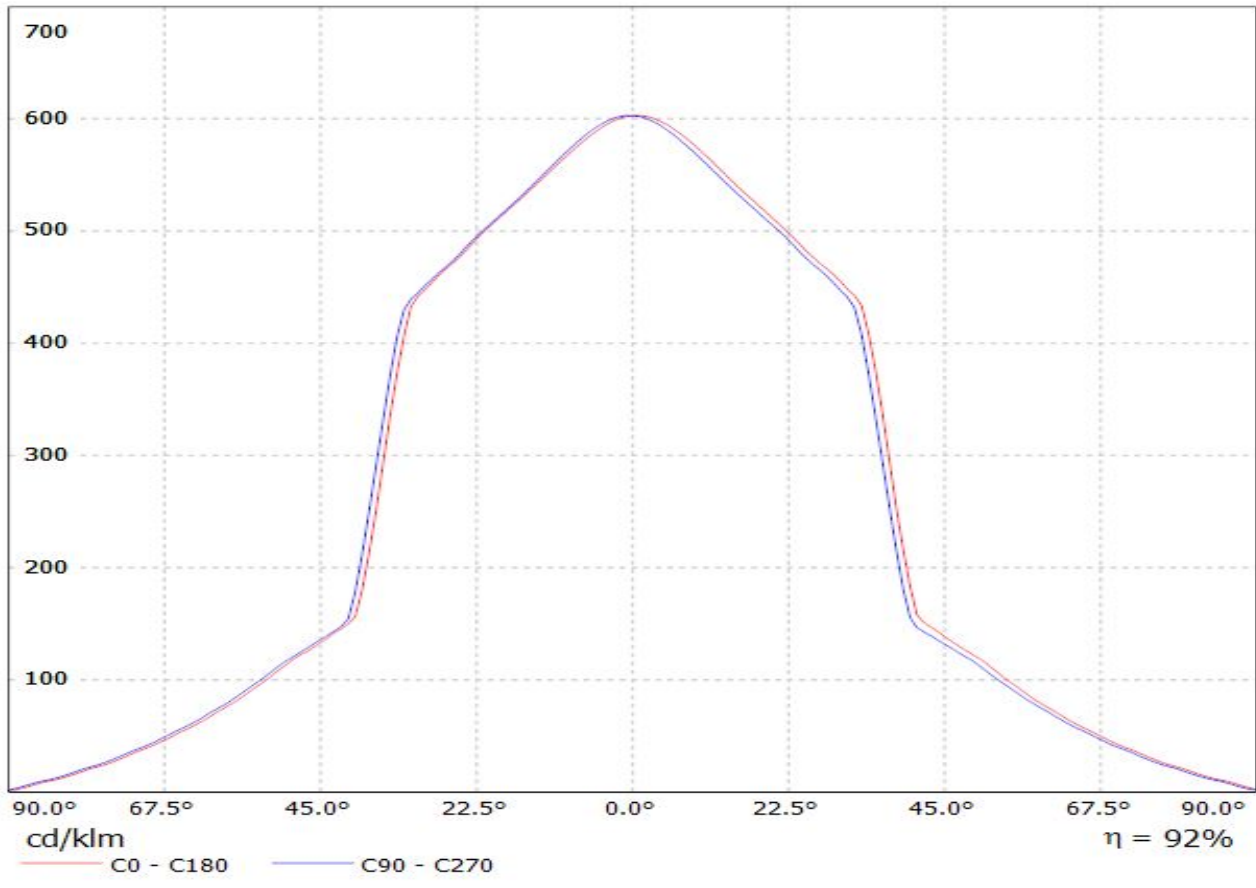
Lamps: 1 x Vossloh\_Schwabe-WU-M-484\_(WU-M-484-830)\_657.721lm@250mA\_P=5.59451W\_η=249.9mA



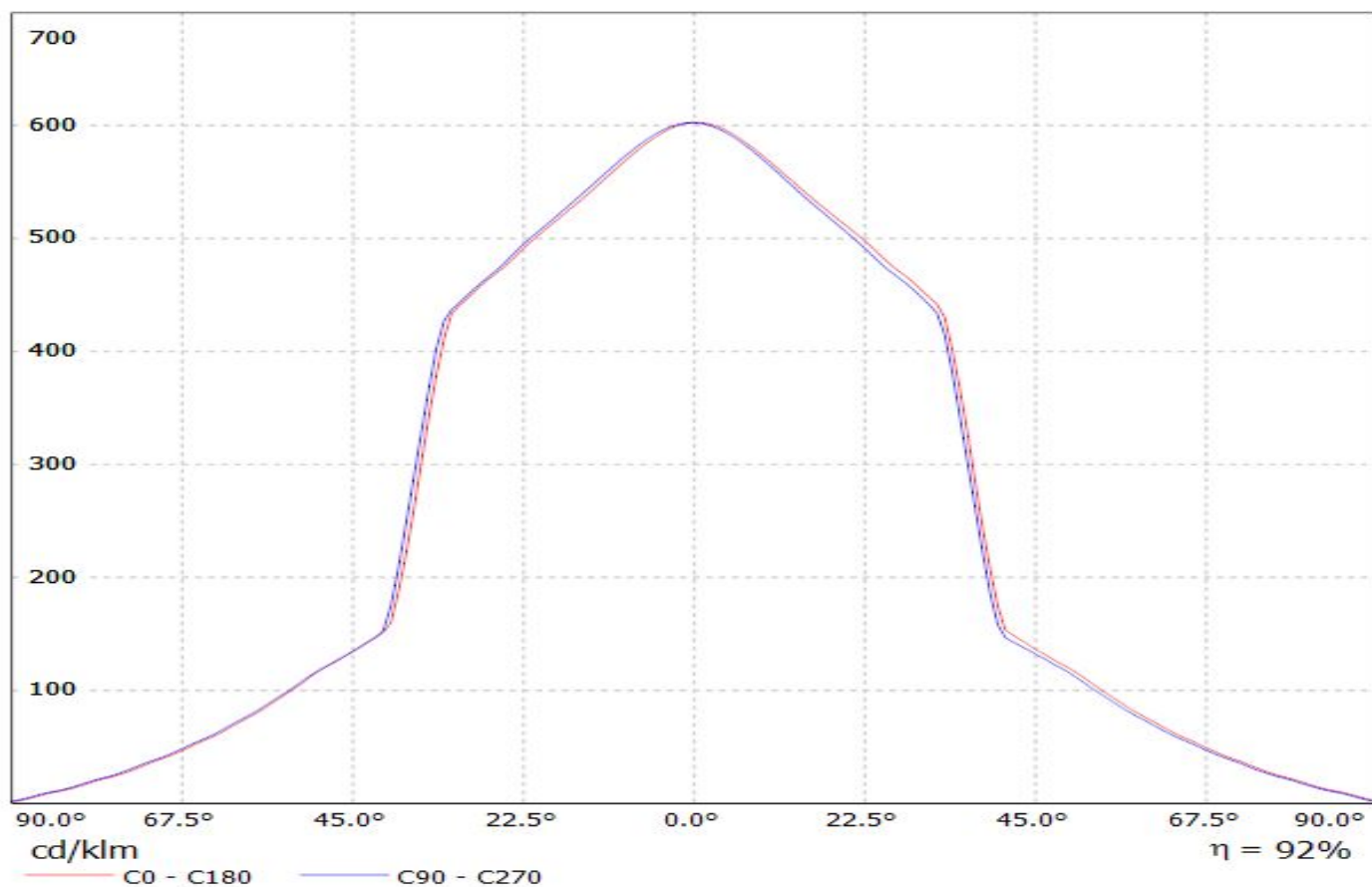


Luminaire: LEDiL Oy F13840\_ANGELA-XW\_(WU-M-485)

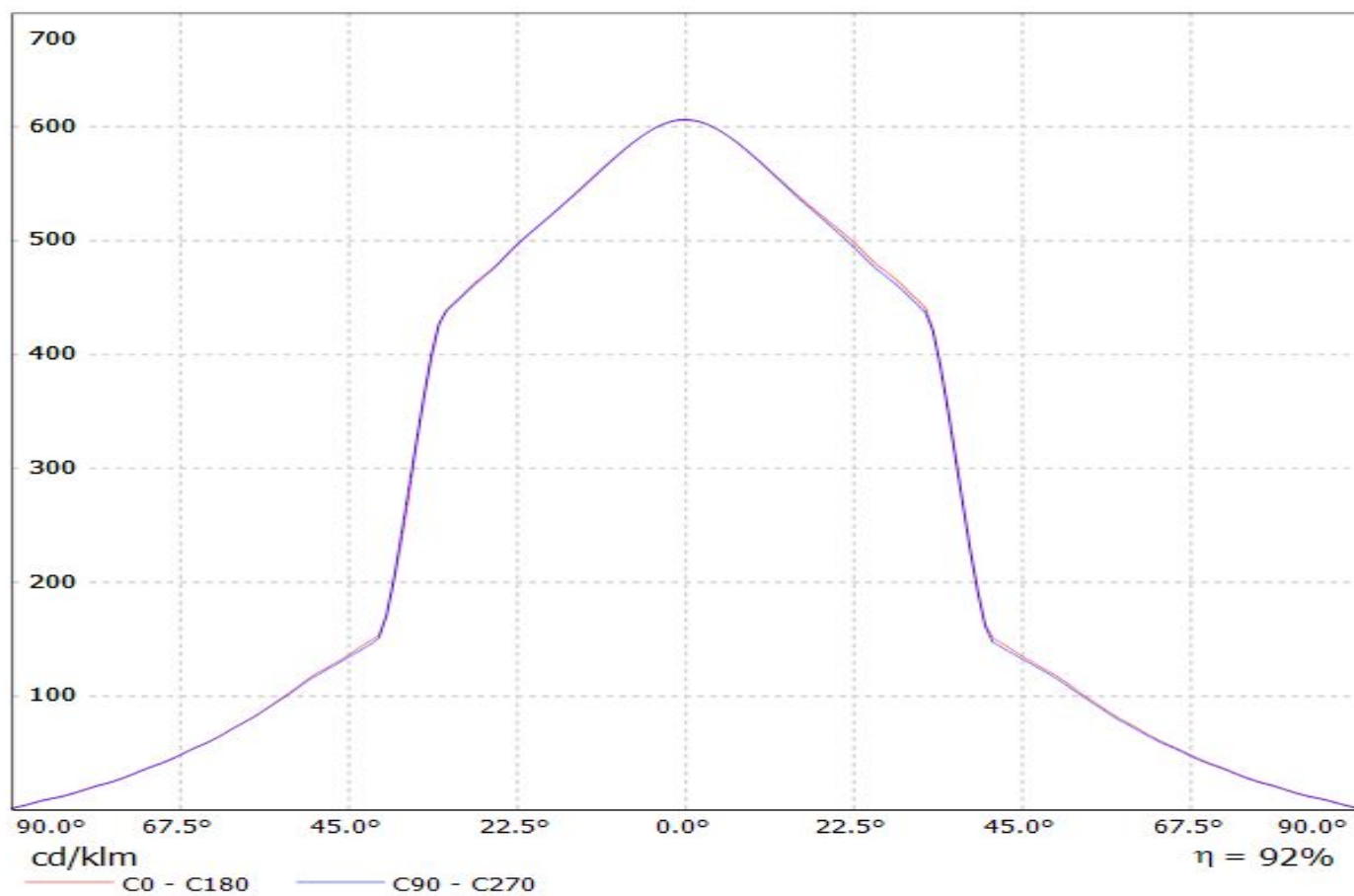
Lamps: 1 x Vossloh\_Schwabe-WU-M-485\_(WU-M-485-830)\_1209.62lm@250mA\_P=8.43849W\_I=249.8mA



Luminaire: LEDiL Oy F13840\_ANGELA-XW\_(WU-M-486) Eff.92.1%  
Lamps: 1 x Vossloh\_Schwabe-WU-M-486\_(WU-M-486-830)  
\_1474.55lm@250mA\_P=10.4456W\_I=249.8mA

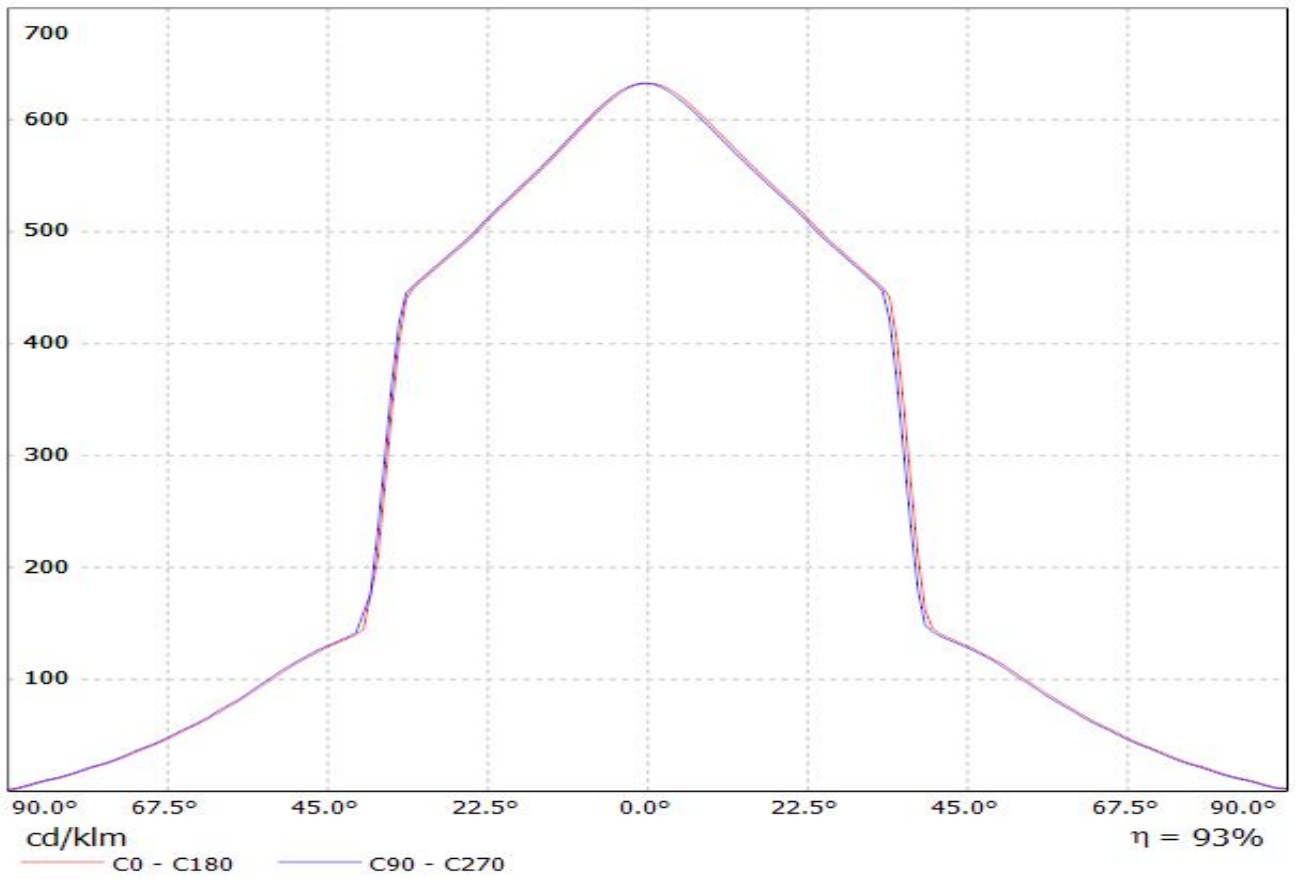


Luminaire: LEDiL Oy F13840\_ANGELA-XW\_(WU-M-464) Eff.92.5%  
Lamps: 1 x VOSSLOH\_WU-M-464-827\_1452.09lm@250mA\_P=11.7139W\_I=249.8mA

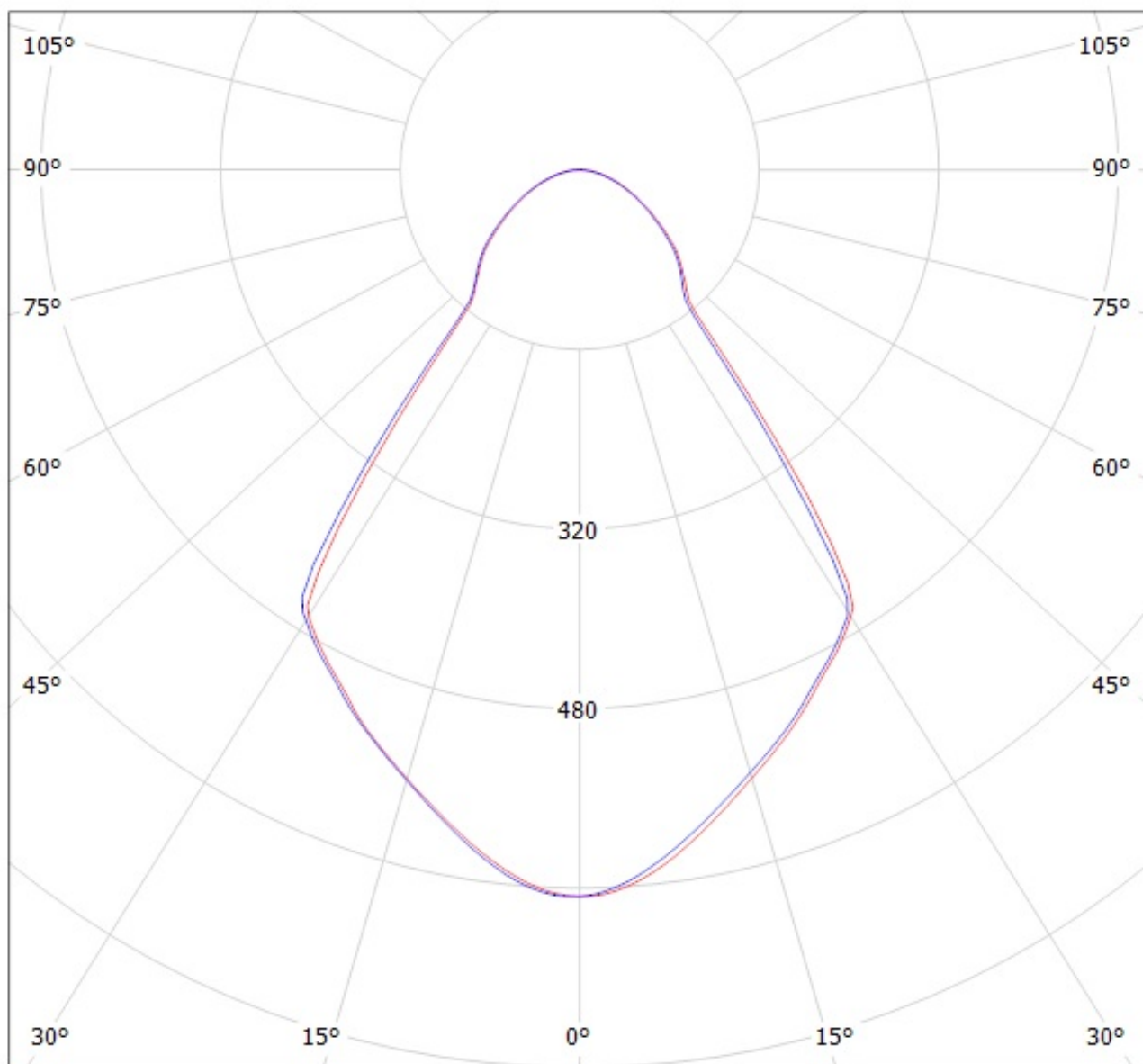


Luminaire: LEDiL Oy F13840\_ANGELA-XW\_(NSBxL121A)

Lamps: 1 x Nichia\_NSBxL121A\_914.478lm@250mA\_P=7.56872W\_I=249.9mA



Luminaire: LEDiL Oy F13840\_ANGELA-XW\_(PrevaLED\_Z4) Eff: 93%  
Lamps: 1 x Osram\_PrevaLED\_CORE\_Z4\_(PL-CORE-3000-830-Z4)\_1423.93lm@250mA\_P=10.7652W\_I=249.9mA

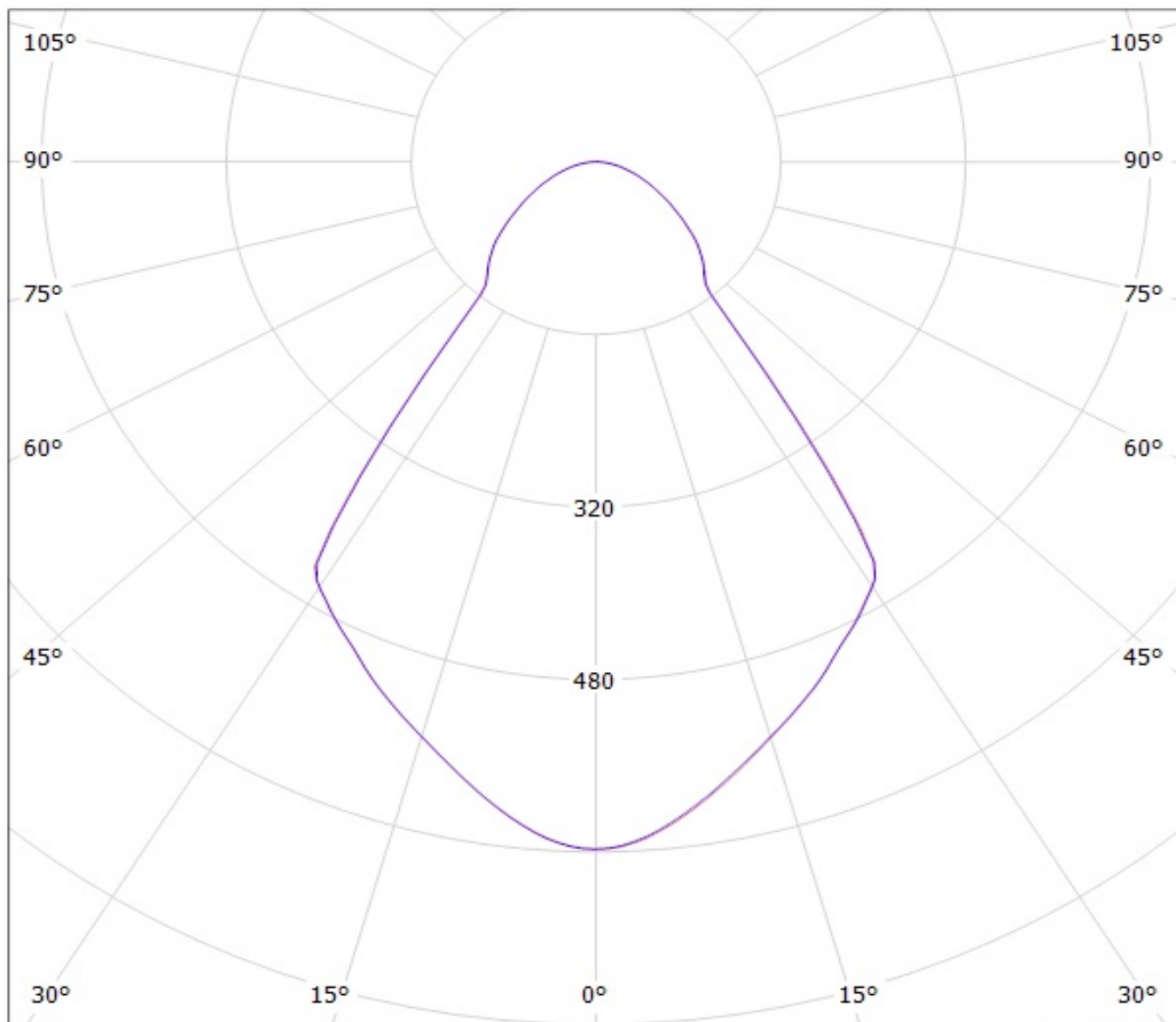


cd/klm

— C0 - C180    — C90 - C270

$\eta = 93\%$

Luminaire: LEDiL Oy F13840\_ANGELA-XW\_(COB\_1208) Eff: 93%  
Lamps: 1 x Luxeon\_COB\_1208\_1037.85lm@250mA\_P=8.27294W\_I=249.9mA



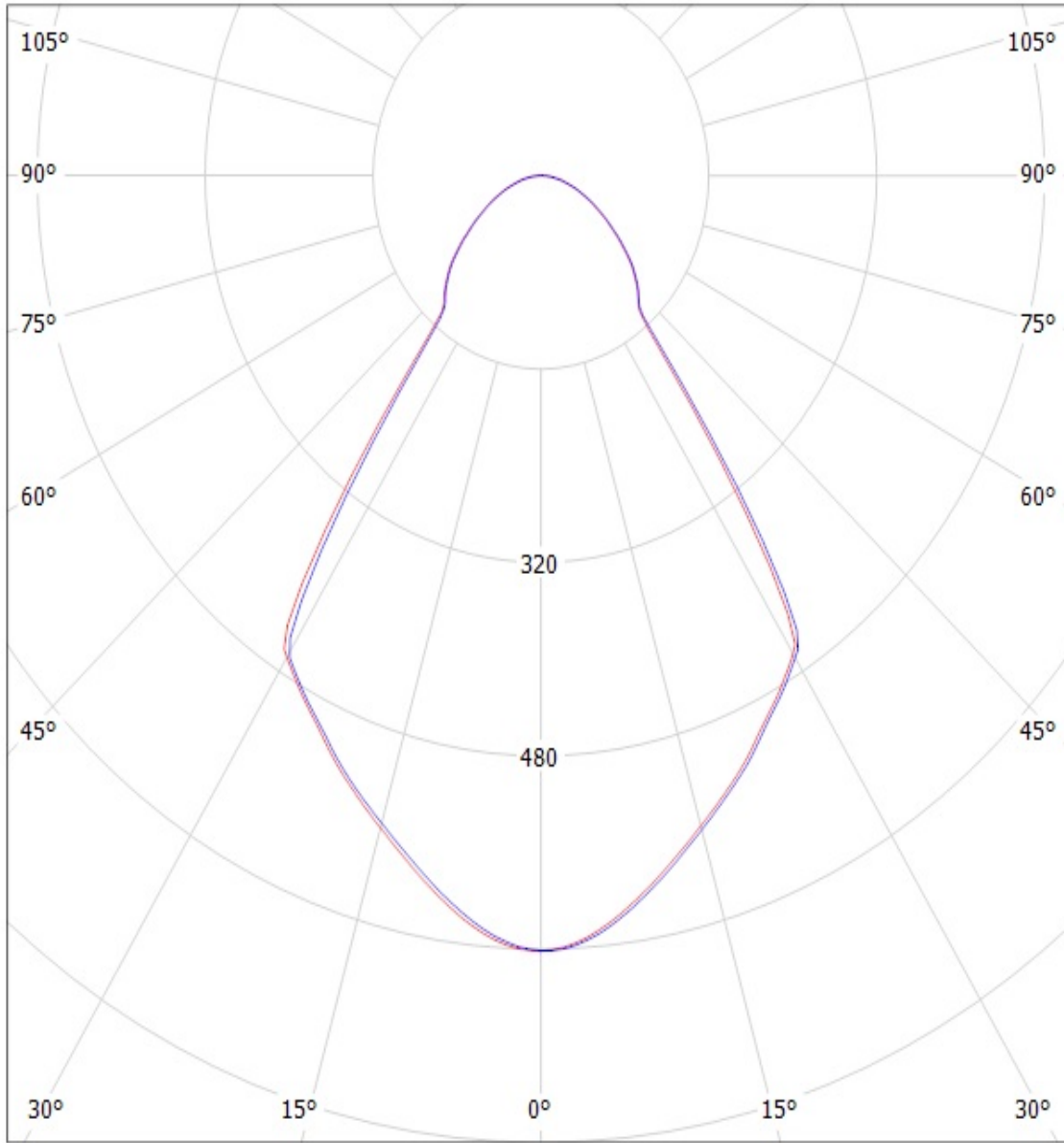
cd/klm

— C0 - C180 — C90 - C270

$\eta = 93\%$

Luminaire: LEDiL Oy F13840\_ANGELA-XW\_(STARK\_SLE\_G3\_LES19) Eff: 93%

Lamps: 1 x Tridonic\_Stark\_SLE\_G3\_LES19\_(Stark-SLE-PURE-G3-19-2000-840-CLA)\_1047.27lm@250mA\_P=8.3639W\_I=249.9mA



cd/klm

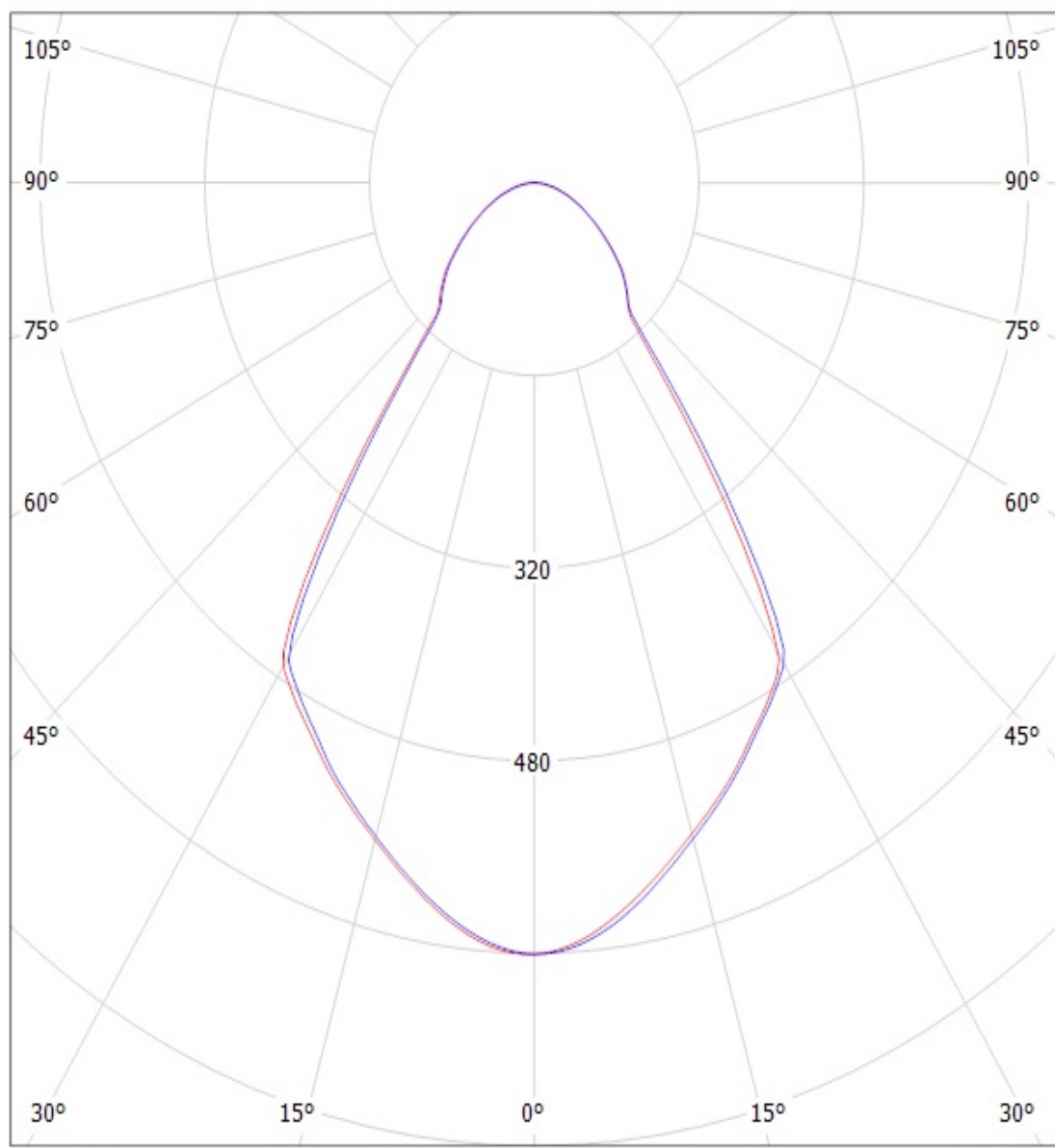
— C0 - C180

— C90 - C270

$\eta = 93\%$

Luminaire: LEDiL Oy F13840\_ANGELA-XW\_(Stark\_SLE\_G3\_LES23) Eff: 93%

Lamps: 1 x Tridonic\_Stark\_SLE\_G3\_LES23\_(Stark-SLE-PURE-G3-23-3000-930-SEL)\_796.507lm@250mA\_P=8.2472W\_I=249.9mA



cd/klm

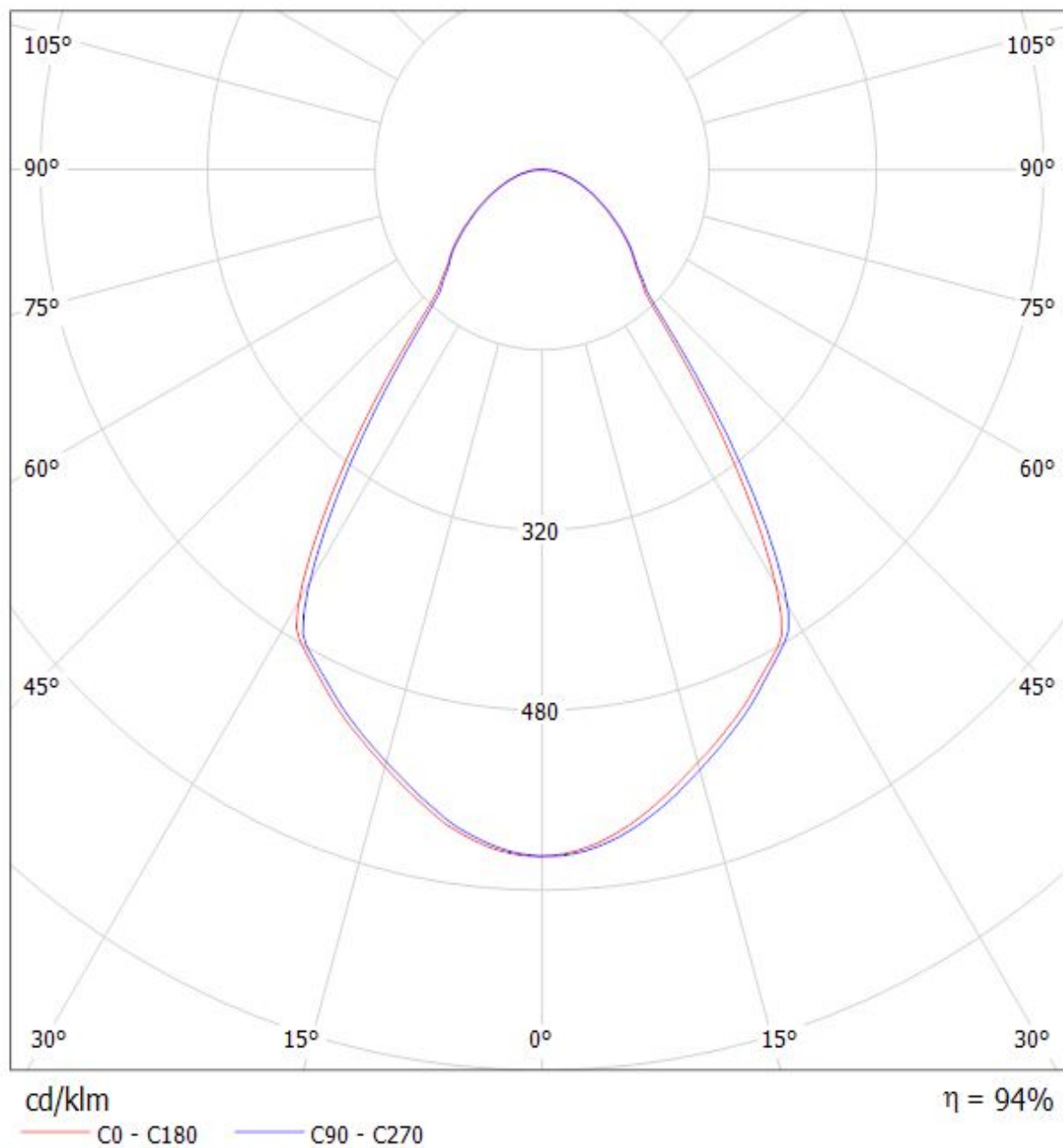
— C0 - C180 — C90 - C270

$\eta = 93\%$



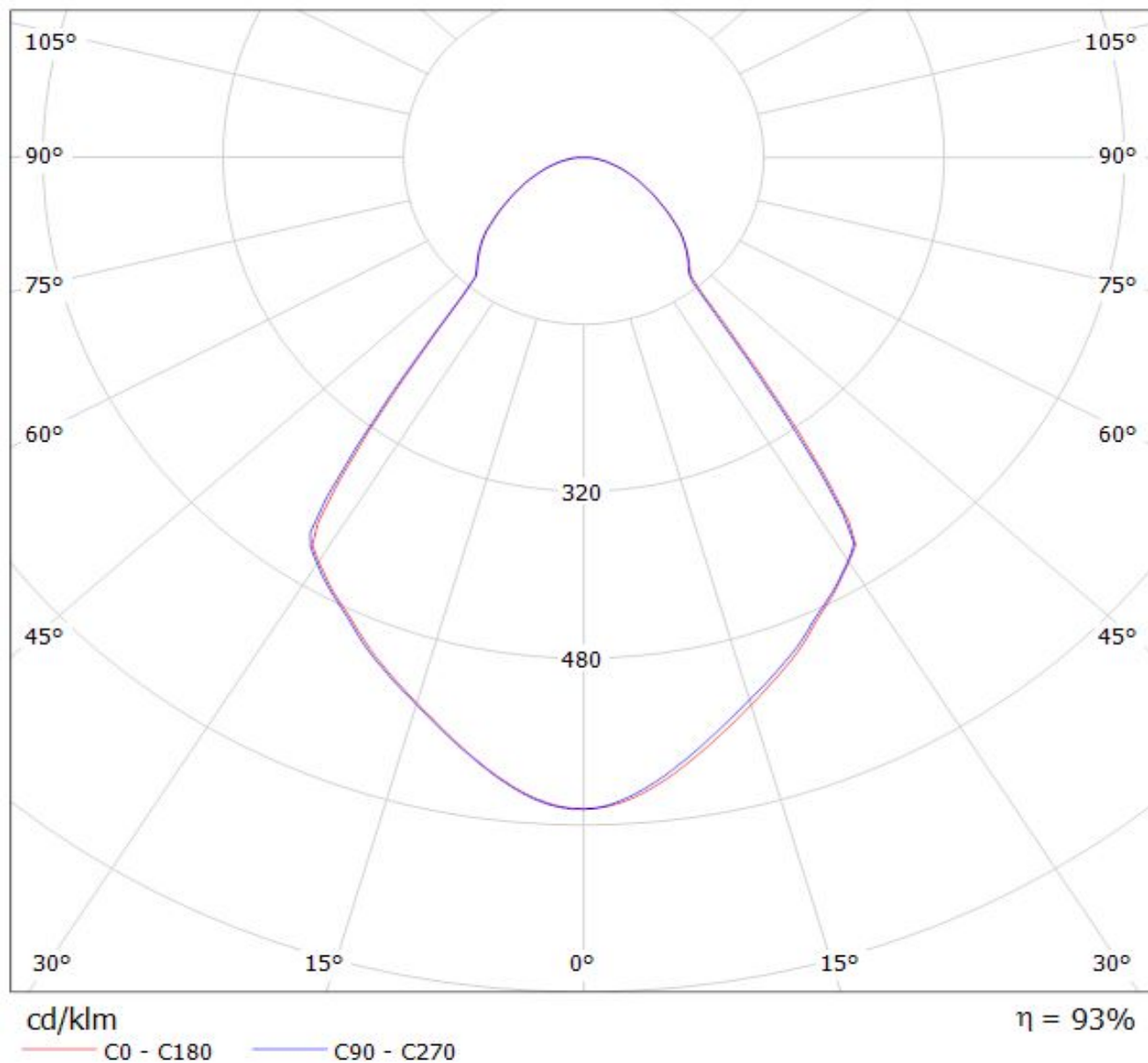
Luminaire: LEDiL Oy F13840\_ANGELA-XW\_(CXA3590)

Lamps: 1 x CREE\_CXA3590\_(CXA3590-30F-BD-R0H-0002)\_2640.14lm@250mA\_CCT=3000K\_P=16.3941W\_I=249.8mA



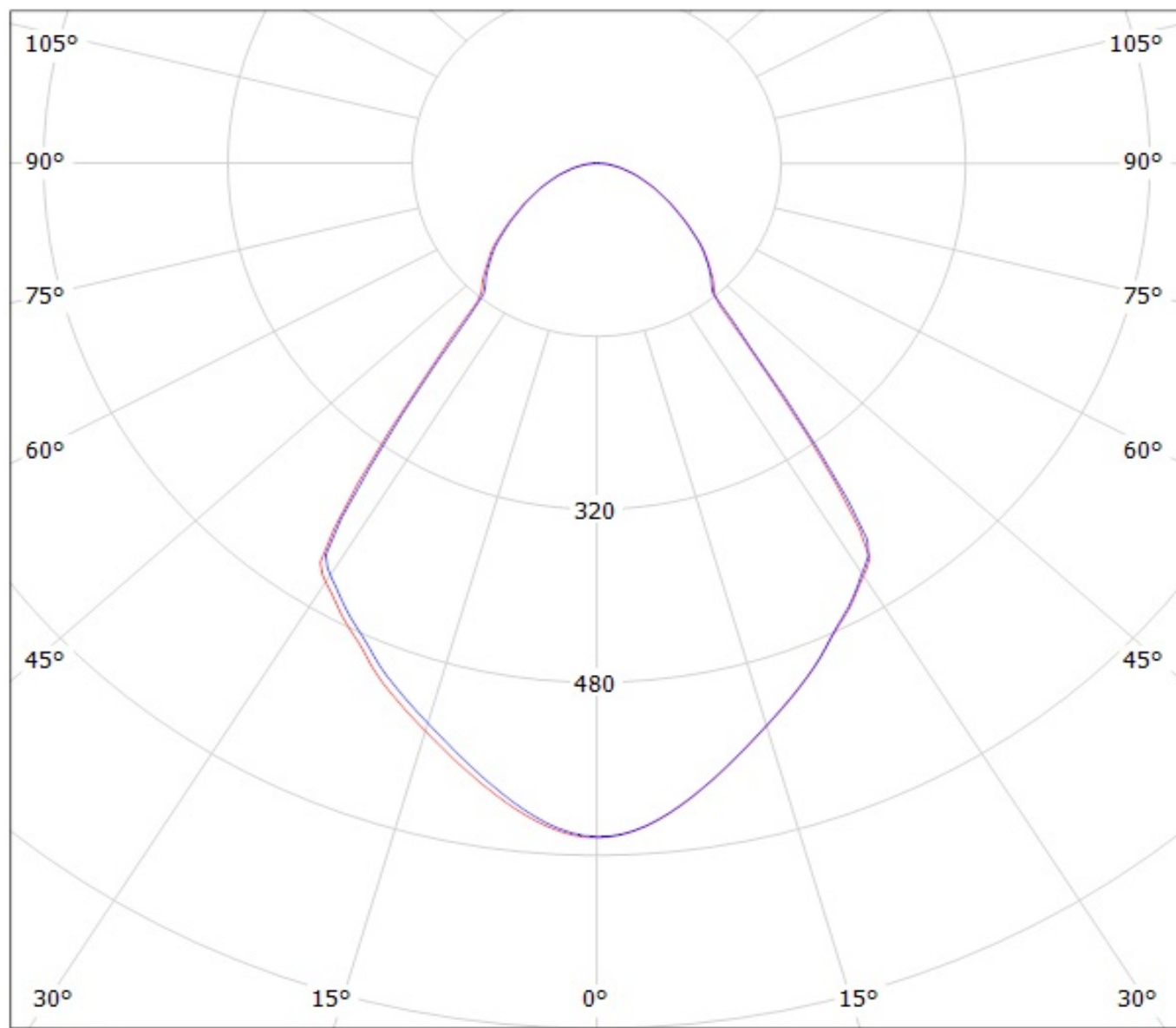
Luminaire: LEDiL Oy F13840\_ANGELA-XW\_(CXM-14)

Lamps: 1 x LUMINUS\_CXM-14\_1114.36lm@250mA\_P=8.36106W\_I=249.8mA



Luminaire: LEDiL Oy F13840\_ANGELA-XW\_(WU-M-461) Eff: 92%

Lamps: 1 x Vossloh\_WU-M-461\_(WU-M-461-827)\_775.523lm@250mA\_P=6.28474W\_I=249.9mA



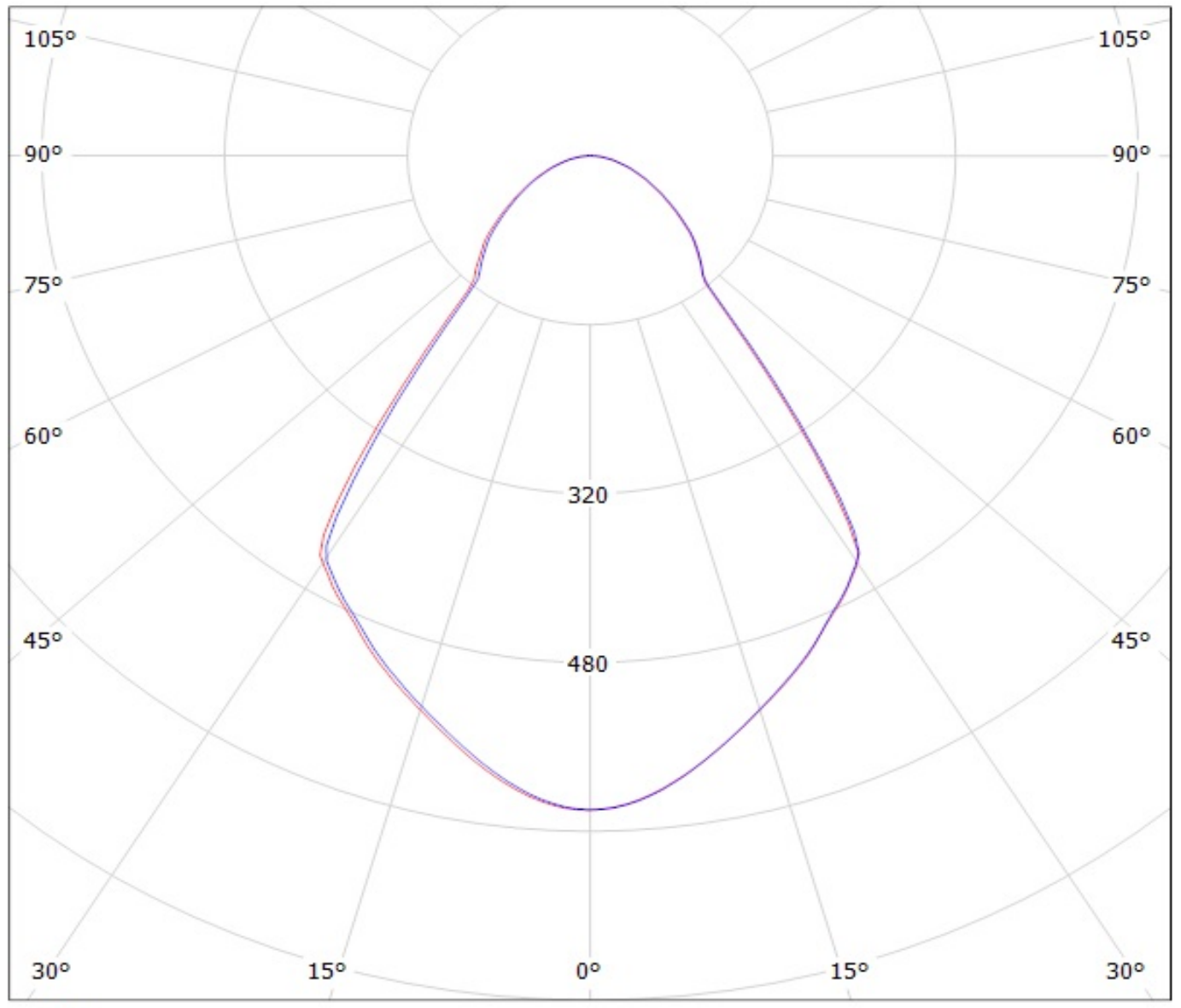
cd/klm

— C0 - C180

— C90 - C270

Luminaire: LEDiL Oy F13840\_ANGELA-XW\_(WU-M-462) Eff: 92%

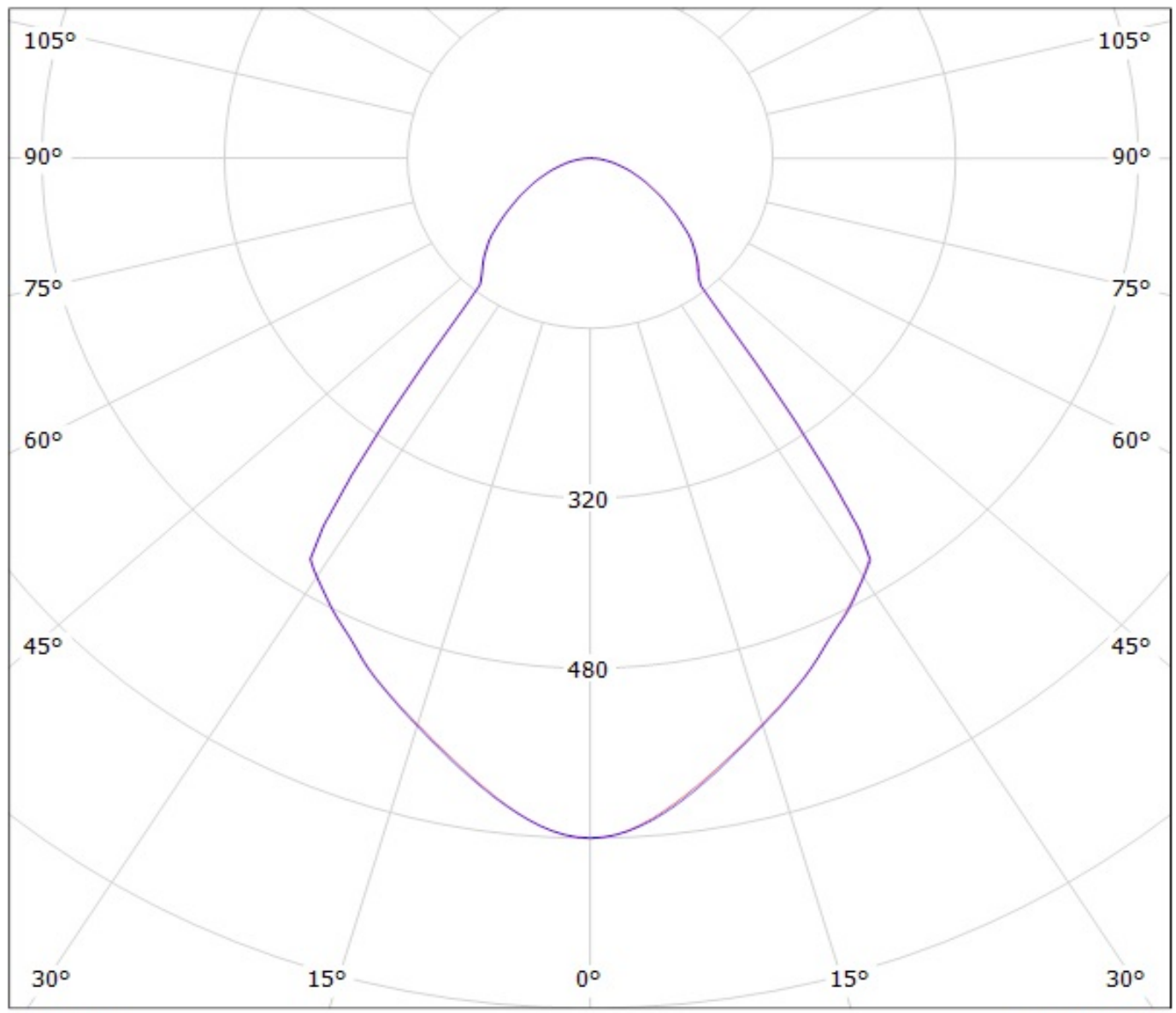
Lamps: 1 x Vossloh\_WU-M-462\_(WU-M-462-827)\_1123.54lm@250mA\_P=9.02089W\_I=249.9mA



cd/klm

— C0 - C180    — C90 - C270

Luminaire: LEDiL Oy F13840\_ANGELA-XW\_(COB\_1205) Eff. 93%  
Lamps: 1 x Luxeon\_COB\_1205\_1088.09lm@250mA\_P=8.32942W\_I=249.9mA

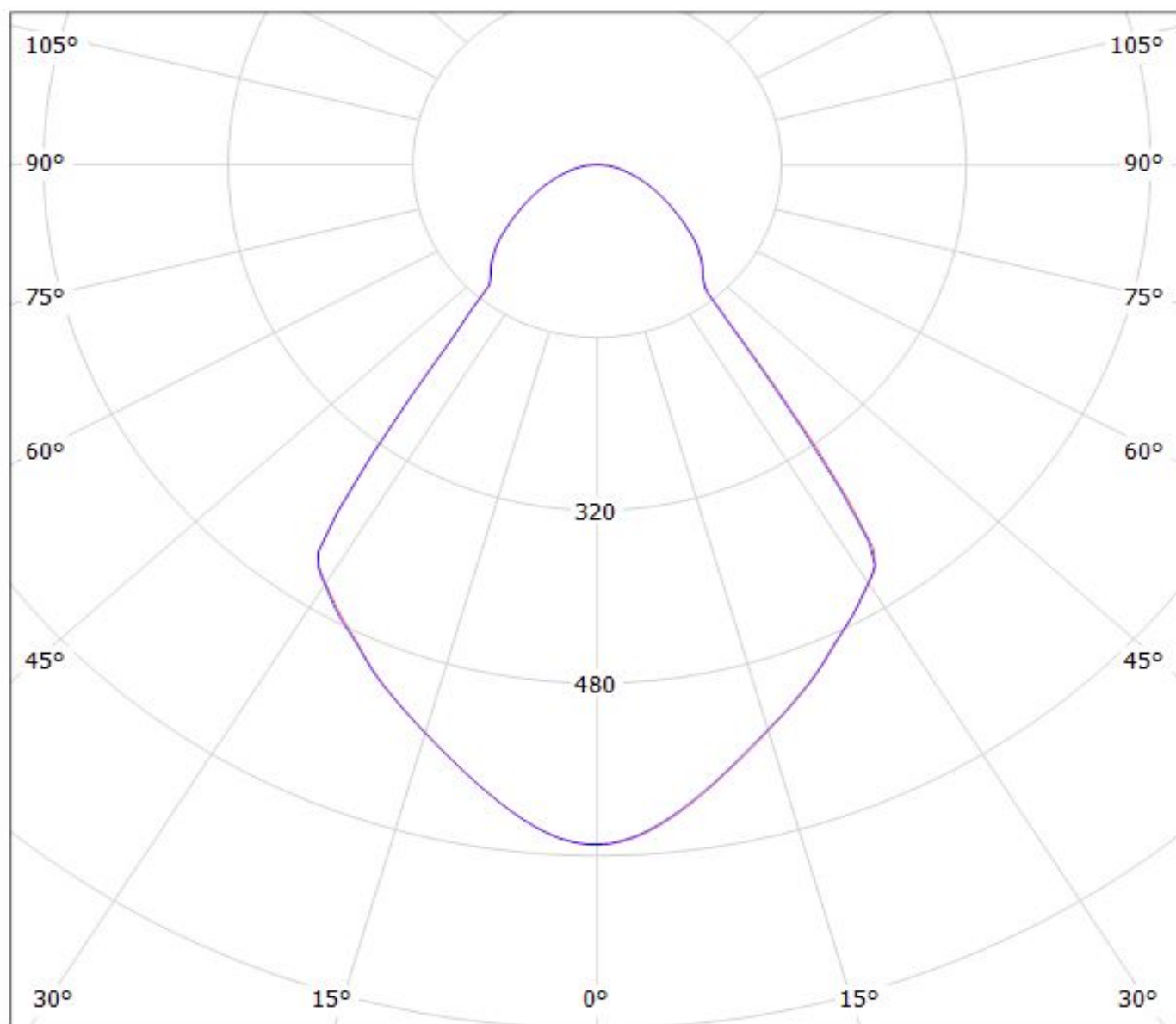


cd/klm  
— C0 - C180 — C90 - C270

$\eta = 93\%$

Luminaire: LEDiL Oy F13840\_ANGELA-XW\_(S13) Eff.92.5%

Lamps: 1 x Osram\_Soleriq\_S13\_883.206lm@250mA\_P=7.45153W\_I=249.8mA



cd/klm

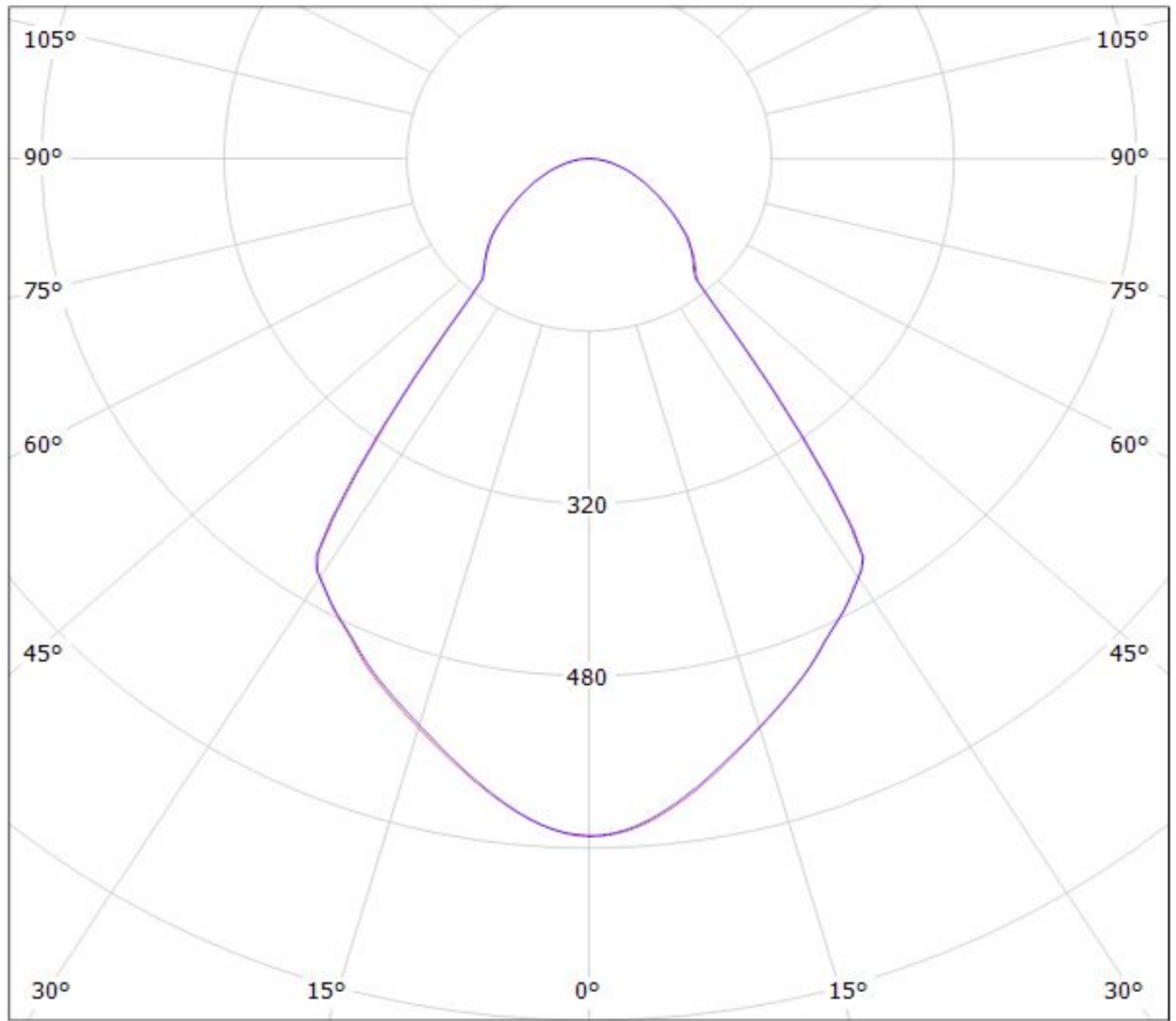
— C0 - C180

— C90 - C270

$\eta = 93\%$

Luminaire: LEDiL Oy F13840\_ANGELA-XW\_(S19) Eff.92.4%

Lamps: 1 x Osram\_Solericq\_S19\_1396.23lm@250mA\_P=10.5575W\_I=249.8mA



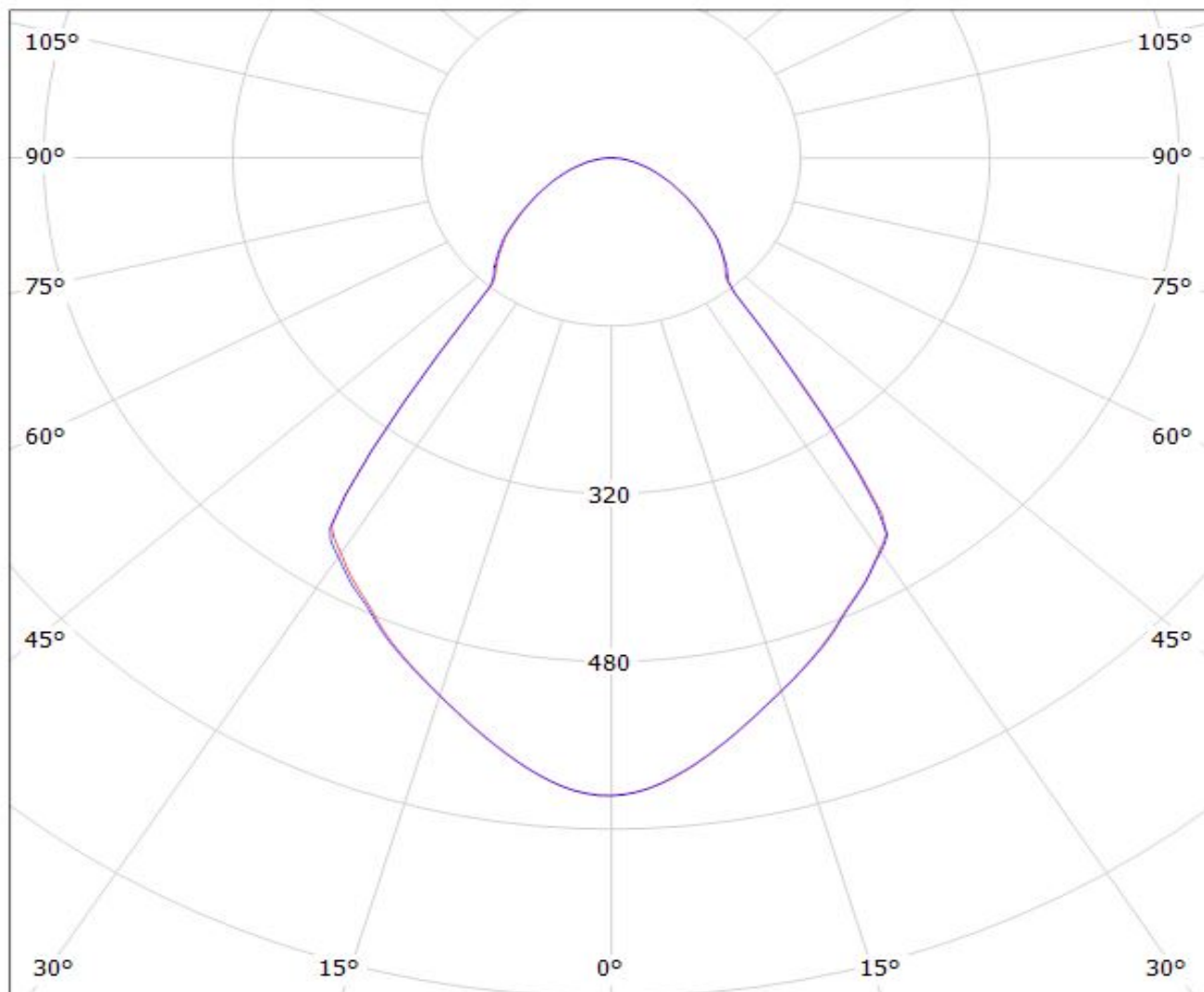
cd/klm

η = 92%

— C0 - C180 — C90 - C270

Luminaire: LEDiL Oy F13840\_ANGELA-XW

Lamps: 1 x Vossloh\_Schwabe-WU-M-484\_(WU-M-484-830)\_657.721lm@250mA\_P=5.59451W\_I=249.9mA



cd/klm

— C0 - C180

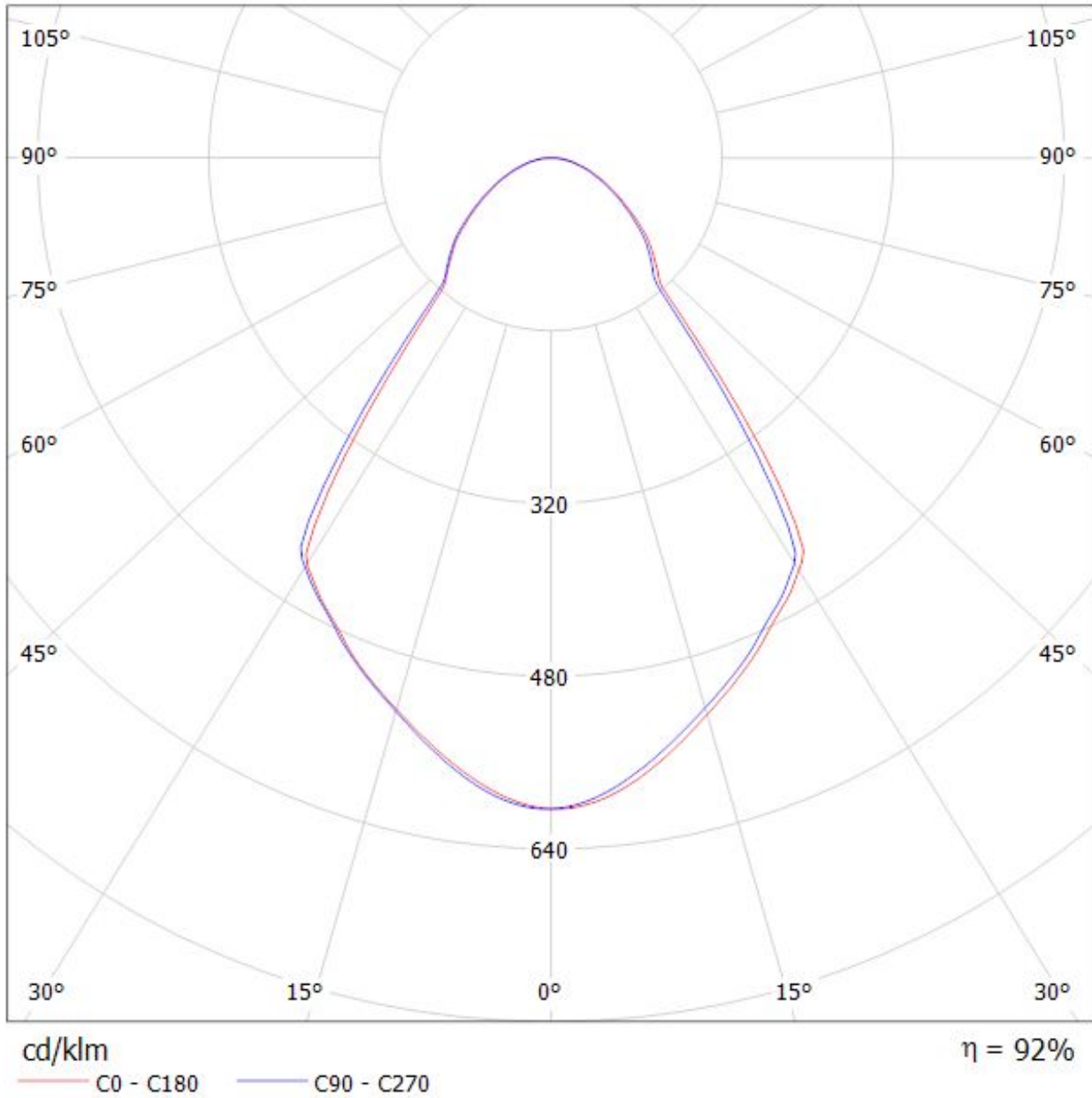
— C90 - C270

$\eta = 92\%$

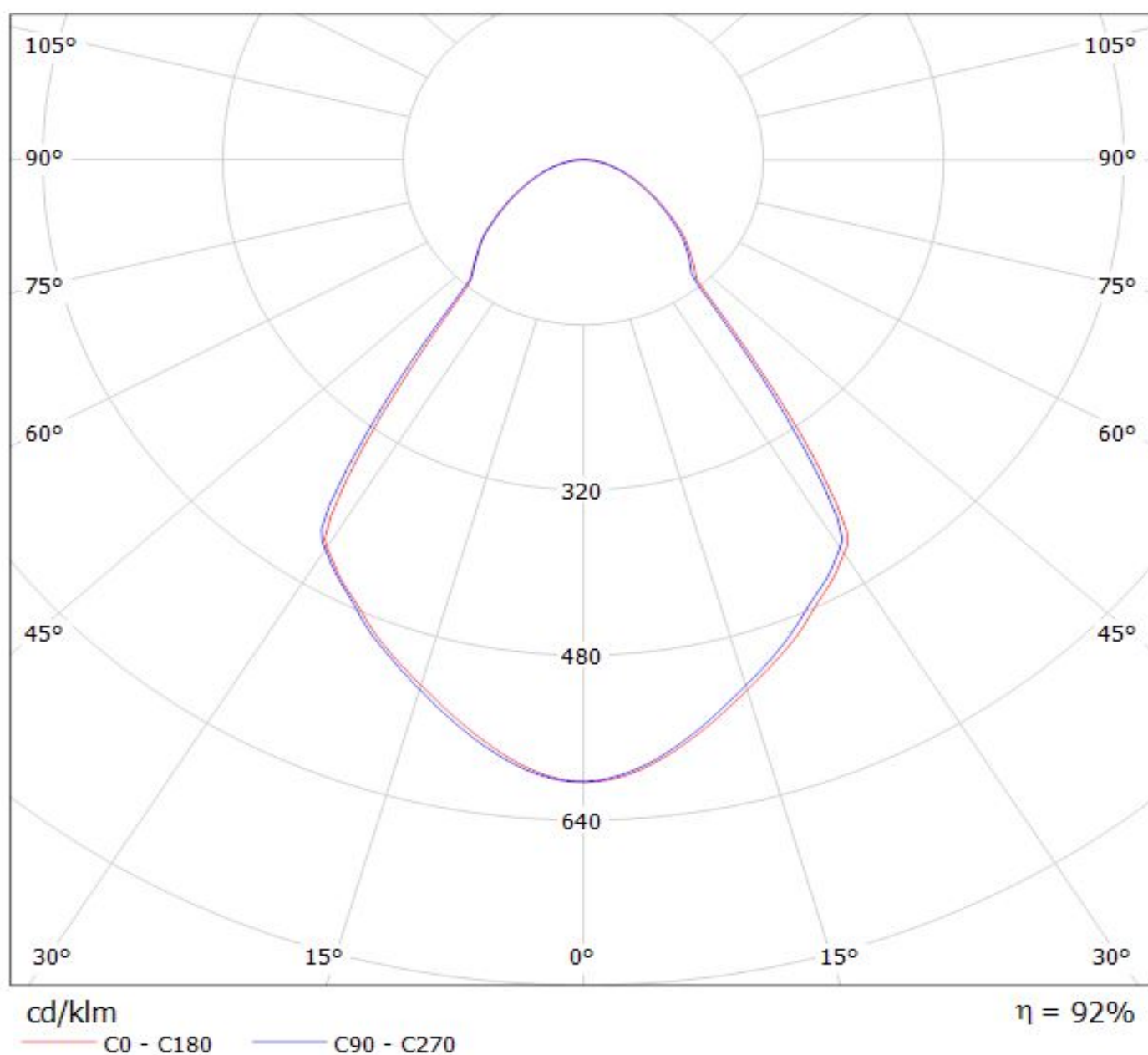


Luminaire: LEDiL Oy F13840\_ANGELA-XW\_(WU-M-485)

Lamps: 1 x Vossloh\_Schwabe-WU-M-485\_(WU-M-485-830)\_1209.62lm@250mA\_P=8.43849W\_I=249.8mA

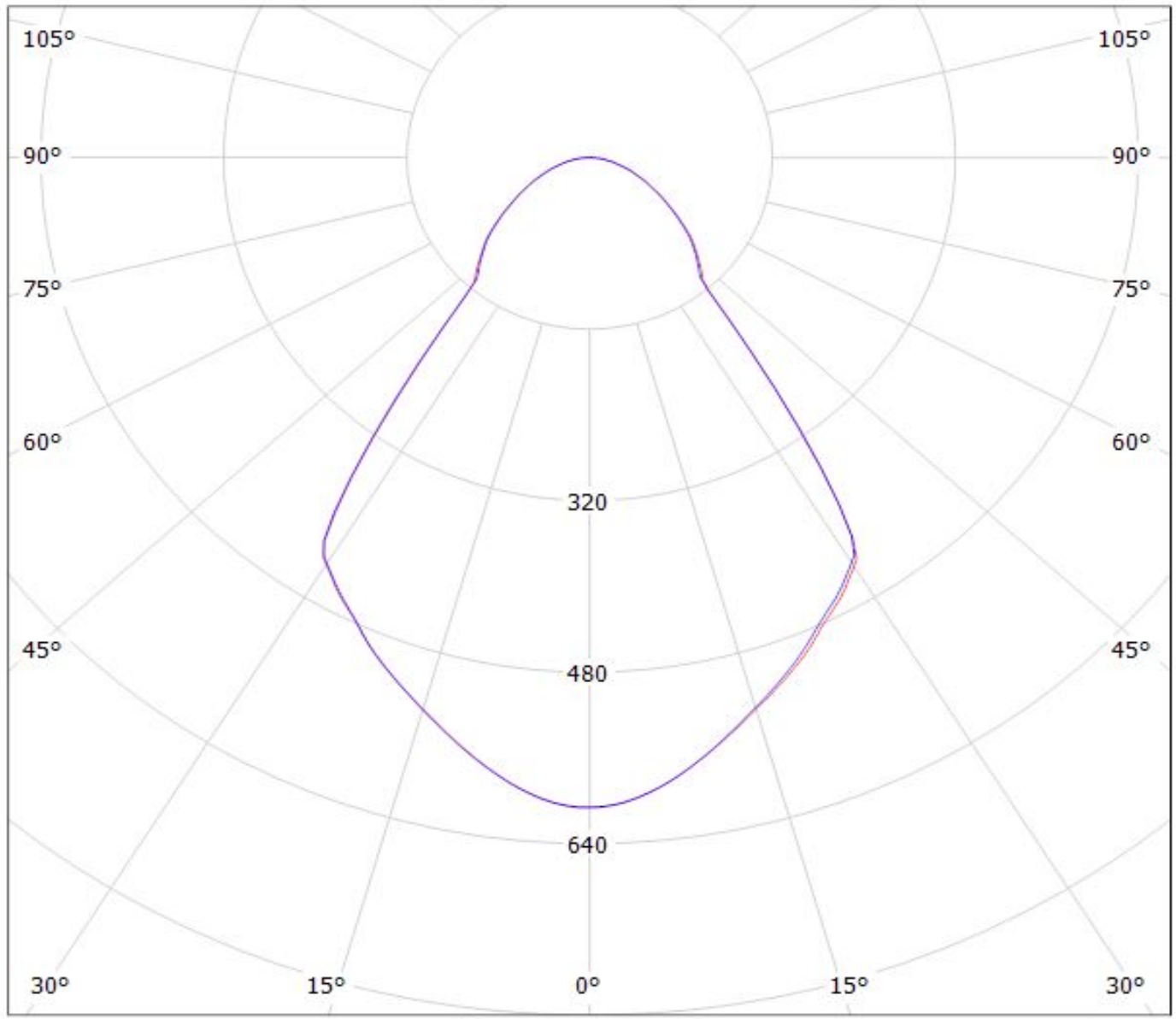


Luminaire: LEDiL Oy F13840\_ANGELA-XW\_(WU-M-486) Eff.92.1%  
Lamps: 1 x Vossloh\_Schwabe-WU-M-486\_(WU-M-486-830)  
\_1474.55lm@250mA\_P=10.4456W\_I=249.8mA



Luminaire: LEDiL Oy F13840\_ANGELA-XW\_(WU-M-464) Eff.92.5%

Lamps: 1 x VOSSLOH\_WU-M-464-827\_1452.09lm@250mA\_P=11.7139W\_I=249.8mA

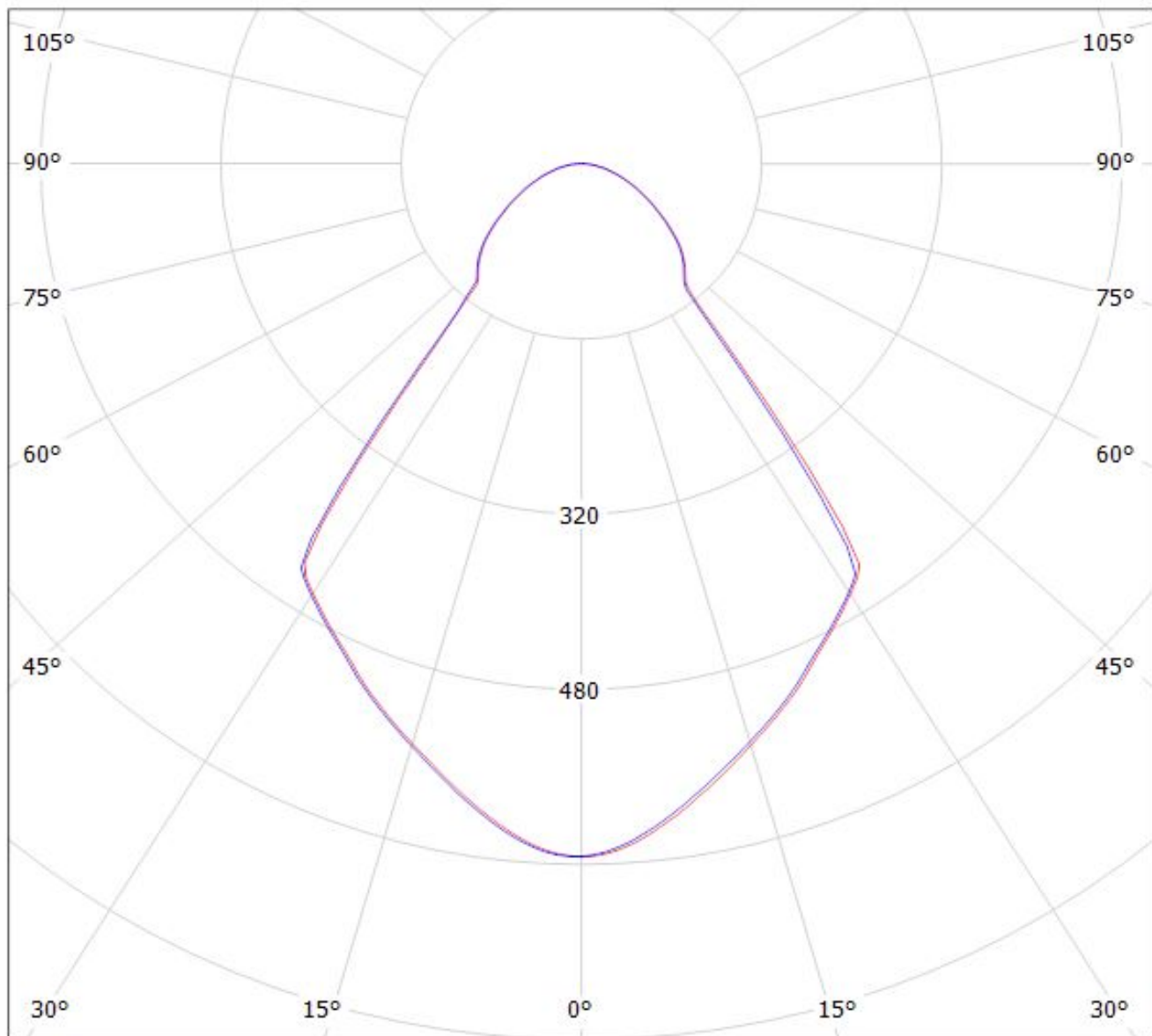


cd/klm  
— C0 - C180 — C90 - C270

η = 92%

Luminaire: LEDiL Oy F13840\_ANGELA-XW\_(NSBxL121A)

Lamps: 1 x Nichia\_NSBxL121A\_914.478lm@250mA\_P=7.56872W\_I=249.9mA



cd/klm

— C0 - C180

— C90 - C270

$\eta = 93\%$

**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.
- 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.