

## DETAILS

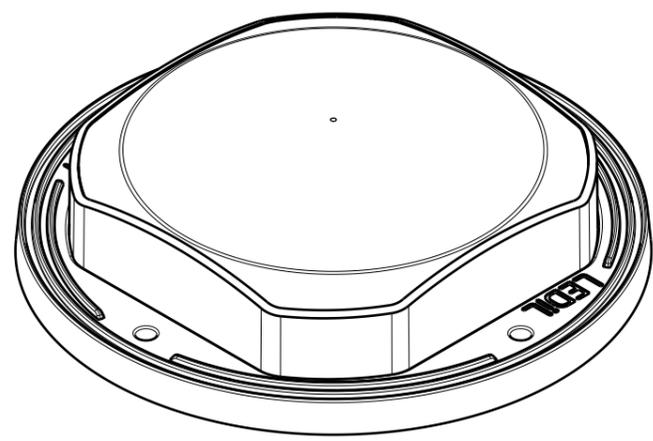
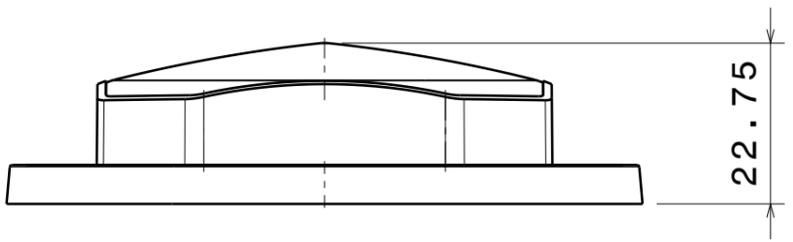
<b>Product Number</b>	FN14720_STELLA-FRESNEL
<b>Family</b>	STELLA
<b>Type</b>	Lens
<b>Color</b>	black
<b>Diameter</b>	90 mm
<b>Height</b>	23 mm
<b>Style</b>	round
<b>Optic Material</b>	Silicone
<b>Holder Material</b>	
<b>Fastening</b>	screw
<b>Status</b>	production ready
<b>ROHS Compliant</b>	Yes
<b>Date Updated</b>	5/04/2016



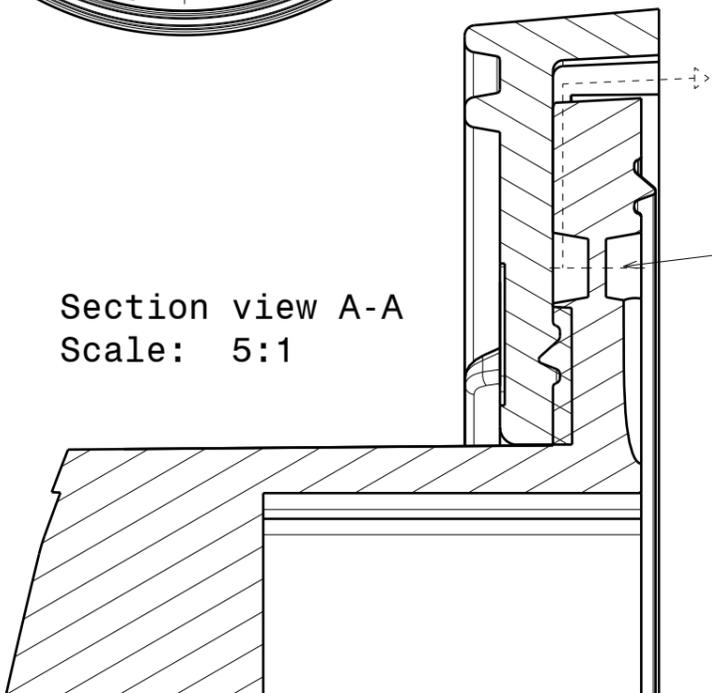
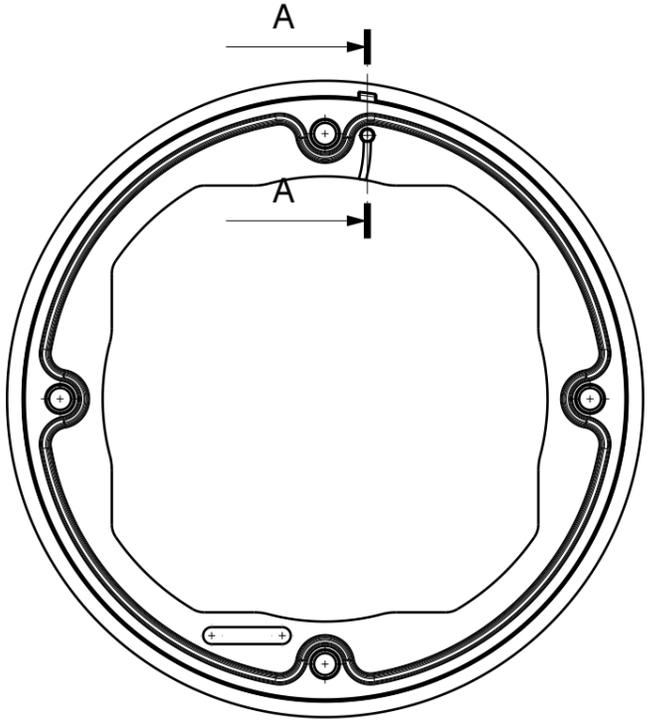
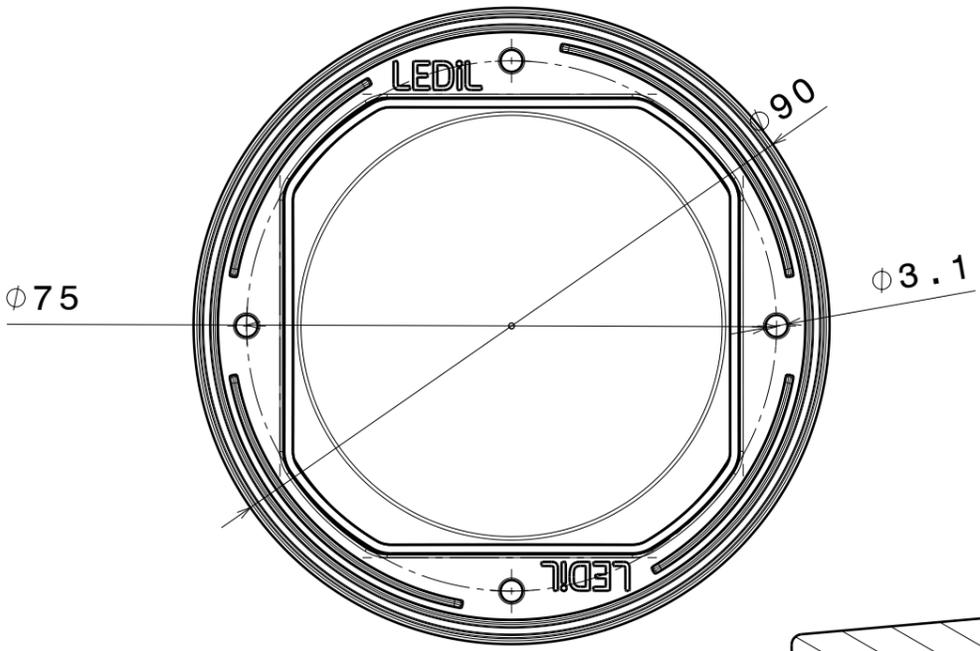
## OPTICAL PROPERTIES

LED	Viewing	Light	Effi-		Connector
	Angle	Beam	ciency	cd/lm	
CXA/B 3590	sim: 37	Streetligh...	sim: 83 %	sim: 1.100	-
CXA/B 25xx	sim: 24	Streetligh...	sim: 83 %	sim: 2.500	-
LUXEON CoB 1208	sim: 23	Streetligh...	sim: 82 %	sim: 2.800	-
Soleriq P13	25 deg	Streetligh...	89 %	1.900	-
SLE G5 LES19	30 deg	Streetligh...	86 %	1.360	-
Soleriq S19	32,1 deg	Streetligh...	84 %	1.219	-
SLE G5 LES23	35 deg	Streetligh...	86 %	1.050	-
CLL04x/CLU04x	36 deg	Streetligh...	86 %	1.100	-
CXA/B 30xx	37 deg	Streetligh...	88 %	1.000	BJB: 47.319.2151
CXM-22	38 deg	Streetligh...	86 %	0.930	Bender Wirth: 431 Typ L3
LUXEON CoB 1216	39 deg	Streetligh...	86 %	0.930	-
VERO29	48 deg	Streetligh...	87 %	0.680	-

H G F E D C B A



Isometric view  
Scale: 1:1



Section view A-A  
Scale: 5:1

Venting pipe:  
Piercing this membrane  
will Allow lens breathing

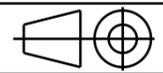
NOTE: Maximum recommended tightening  
torque for STELLA-FRAME is 0,4Nm

INDEX	PART NO	DESCRIPTION	MATERIAL	COLOUR
1	F14627	STELLA-FRESNEL	Optical grade LSR	
	C13322	STELLA-FRAME	PA	black

Tolerances if not otherwise shown  
According to DIN ISO 2768-1  
Linear measures: class V  
Please note that due to the elasticity of  
products made of silicone actual measured  
values may vary, and therefore typical  
tolerance values may not be applied.

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

THIRD ANGLE PROJECTION:



DRAWING TITLE  
**FN14720\_STELLA-FRESNEL**

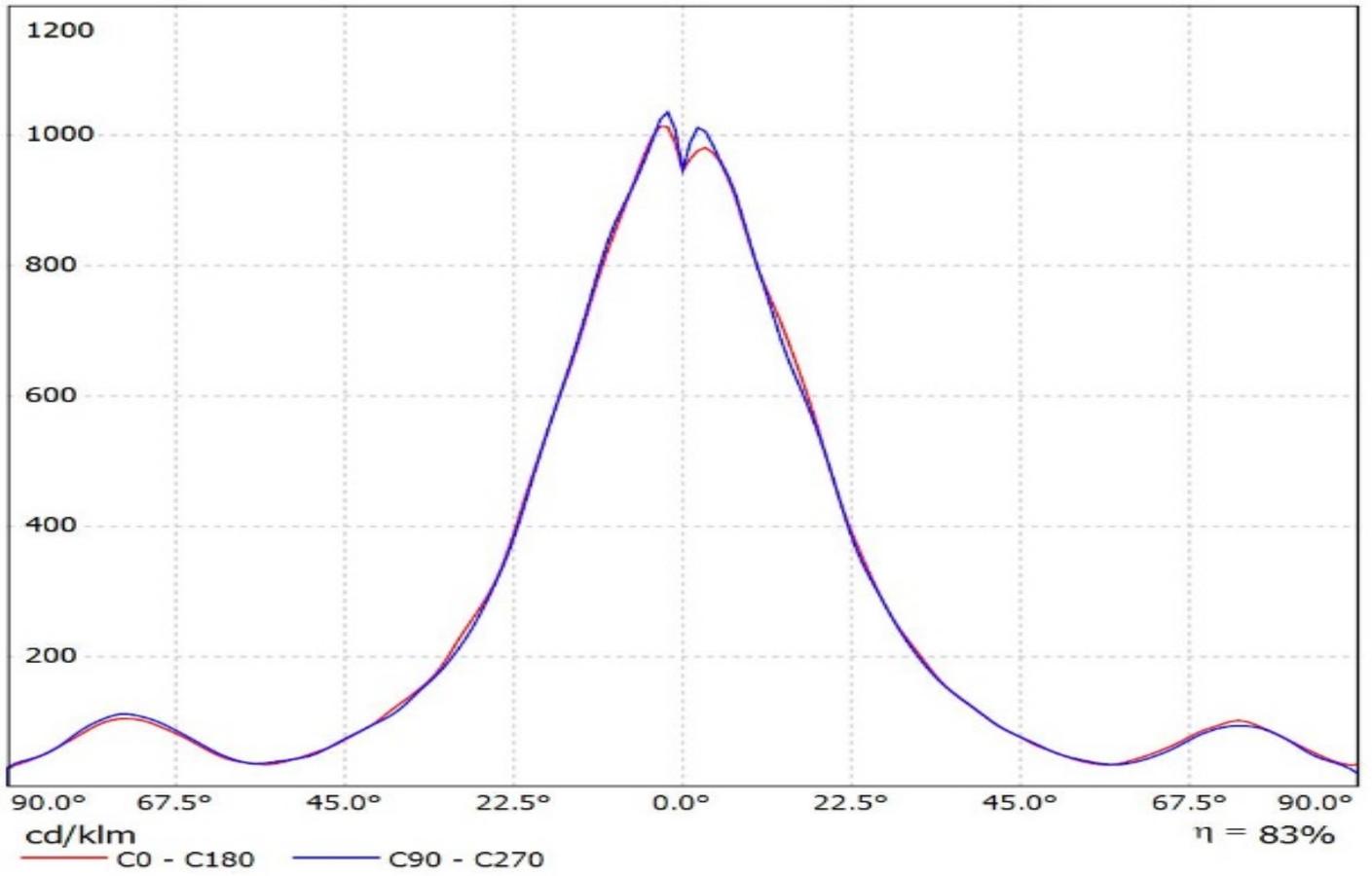
This drawing is the property  
of LEDiL Oy. It may not be  
reproduced, copied or  
communicated without a written  
agreement with LEDiL Oy.

SIZE PART NUMBER  
**A3 FN14720**

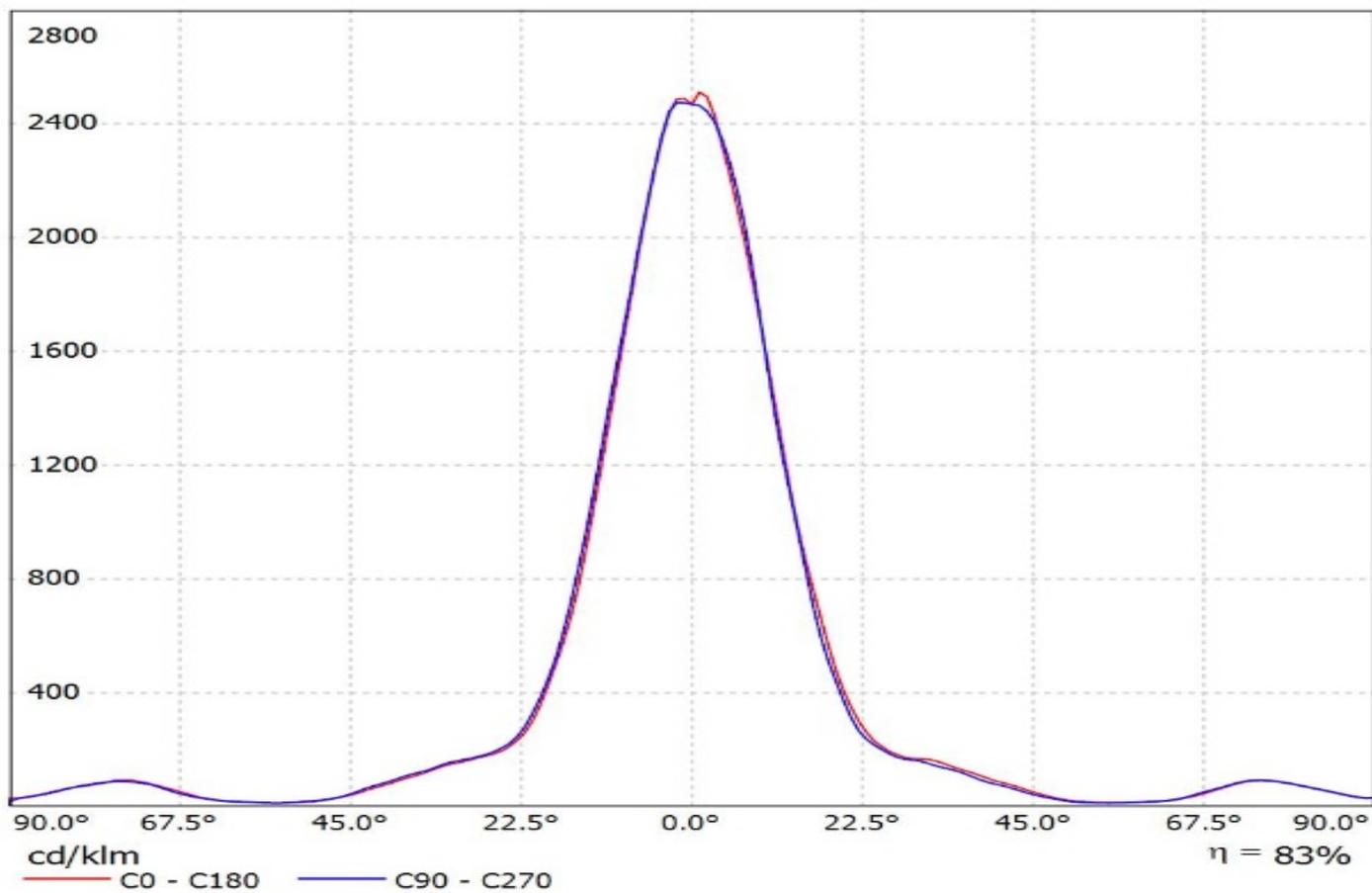
SCALE 1:1 WEIGHT 34,65 g SHEET 1/1

H G B A

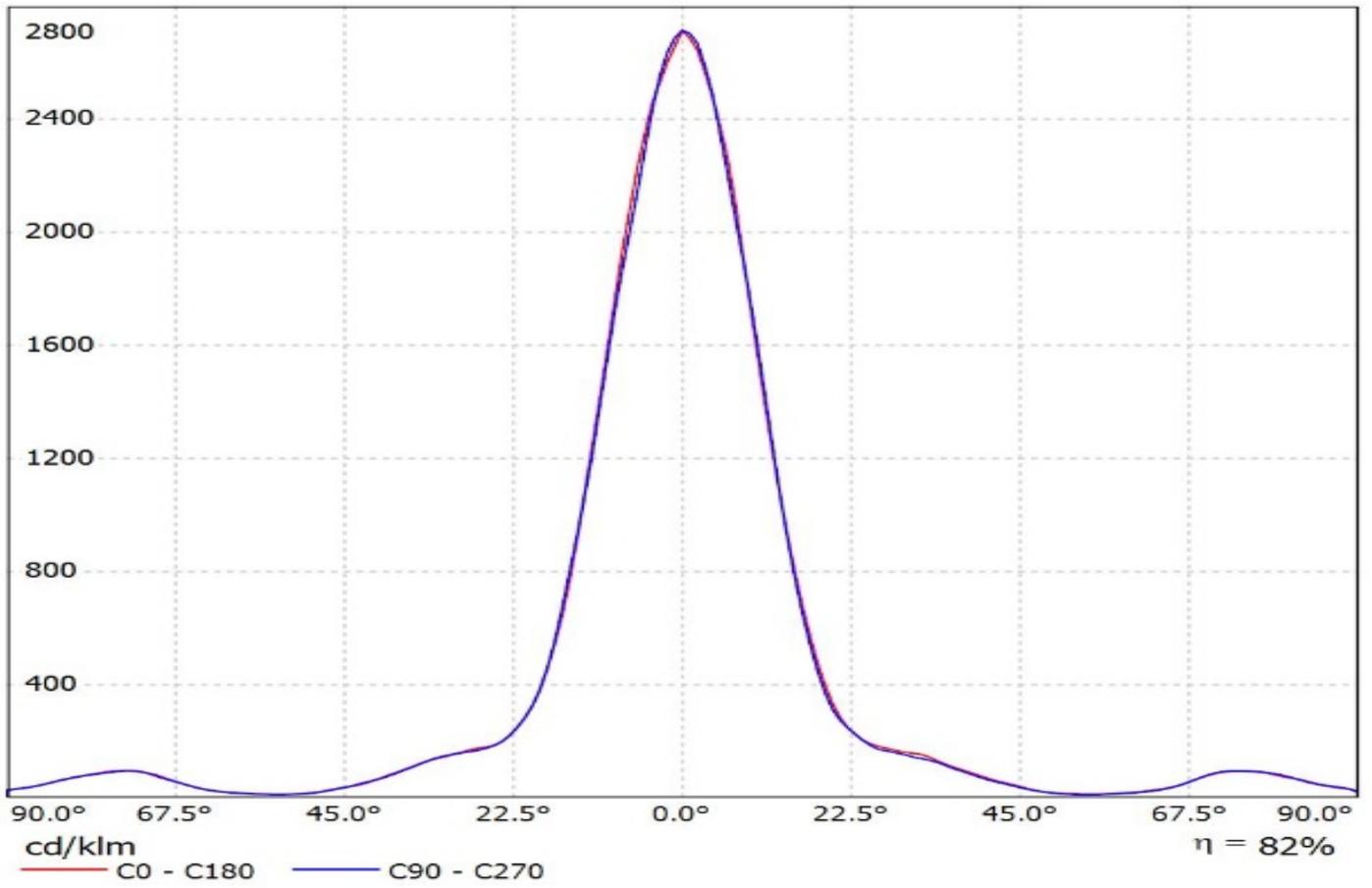
Luminaire: Ledil Oy FN14720\_STELLA-FRESNEL\_(CXA3590)\_SIMULATED  
Lamps: 1 x Cree CXA3590



Luminaire: Ledil Oy FN14720\_STELLA-FRESNEL\_(CXA2590)\_SIMULATED  
Lamps: 1 x Cree CXA2590

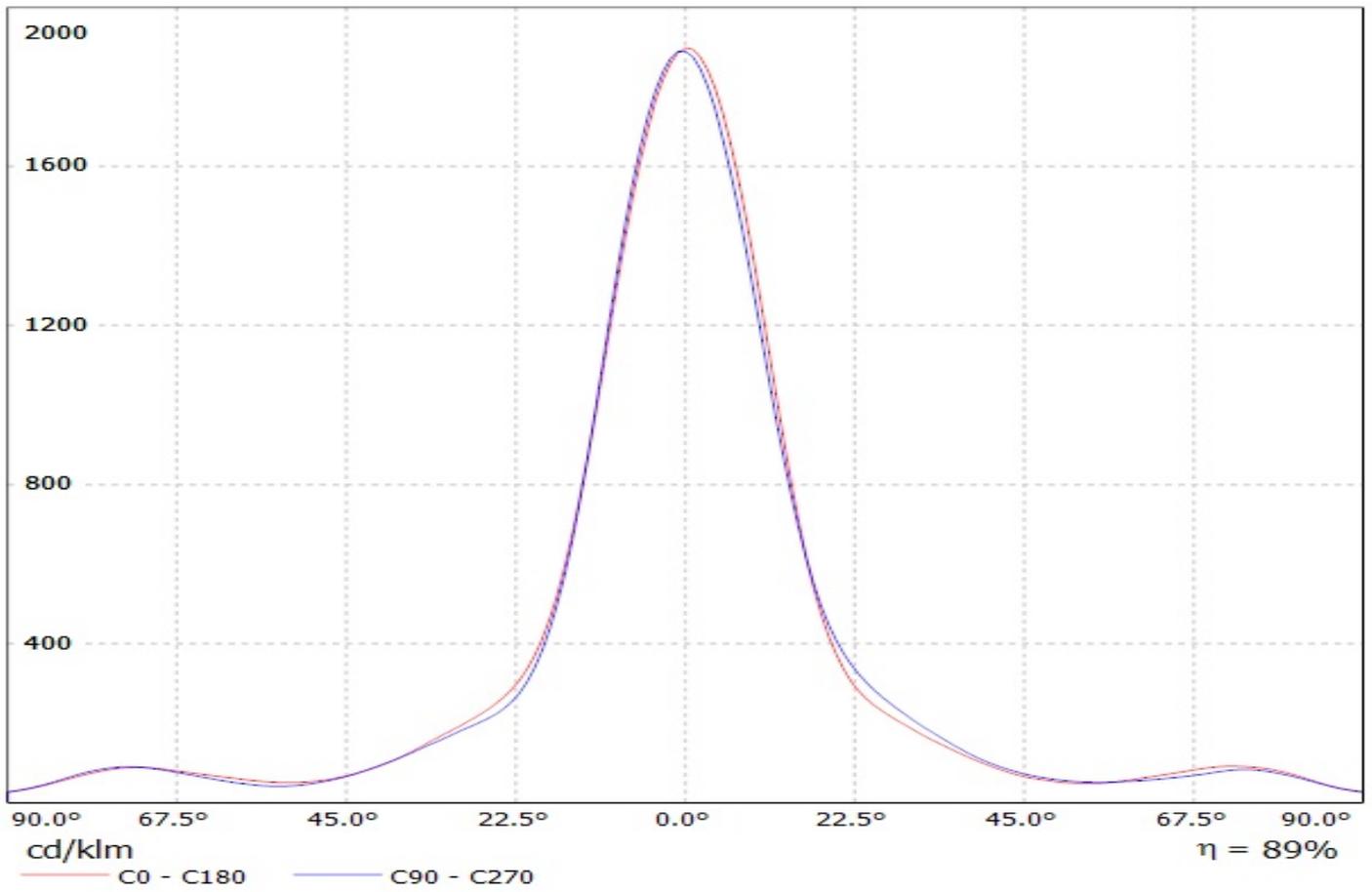


Luminaire: Ledil Oy FN14720\_STELLA-FRESNEL\_(Luxeon\_CoB\_1208)\_SIMULATED  
Lamps: 1 x Lumileds Luxeon CoB 1208

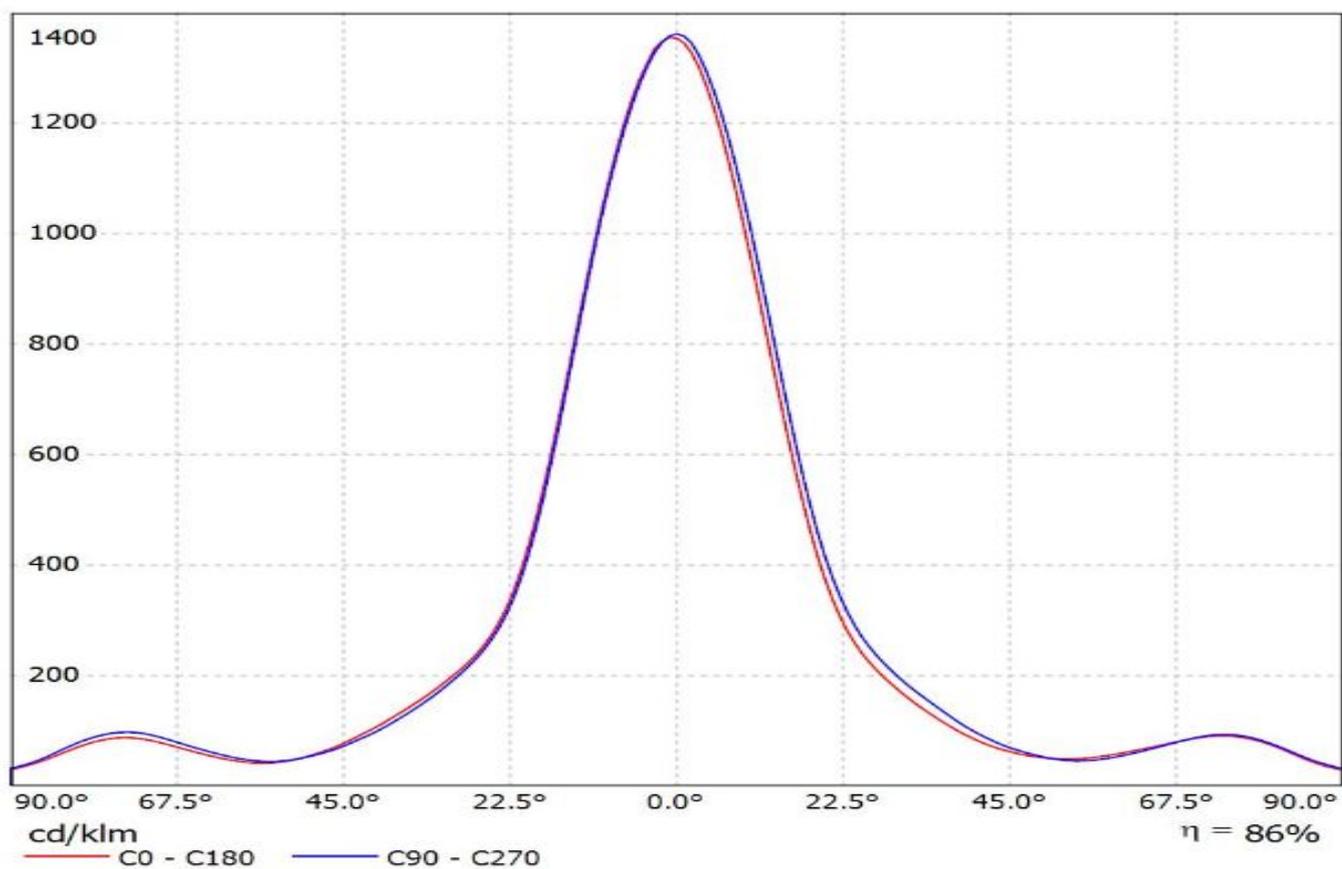


Luminaire: LEDiL Oy FN14720\_STELLA-FRESNEL\_(Soleriq\_P13)\_Cav1

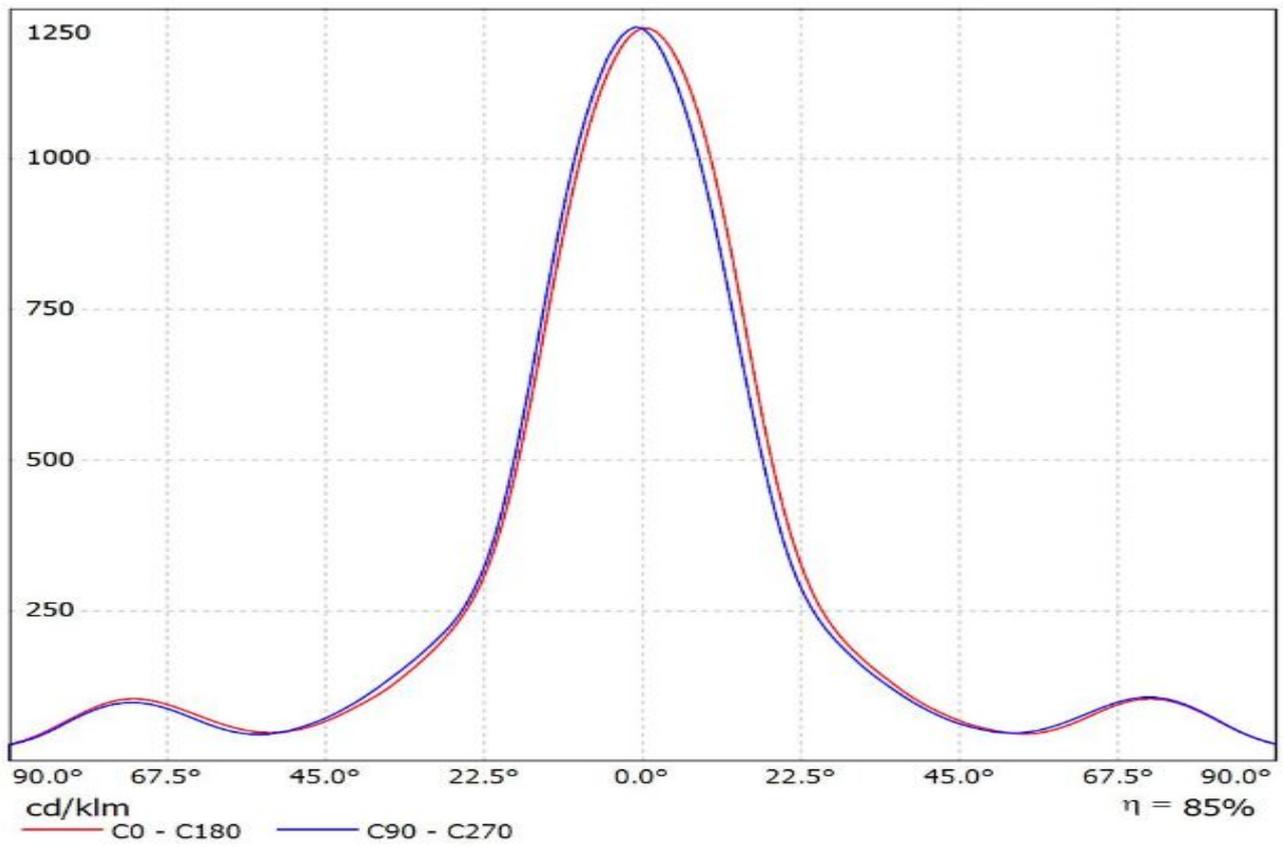
Lamps: 1 x Osram\_Soleriq\_P13\_(GQ\_MAGMB1.EM)\_922.464lm@250mA\_P=8.69804W\_I=0.2498A



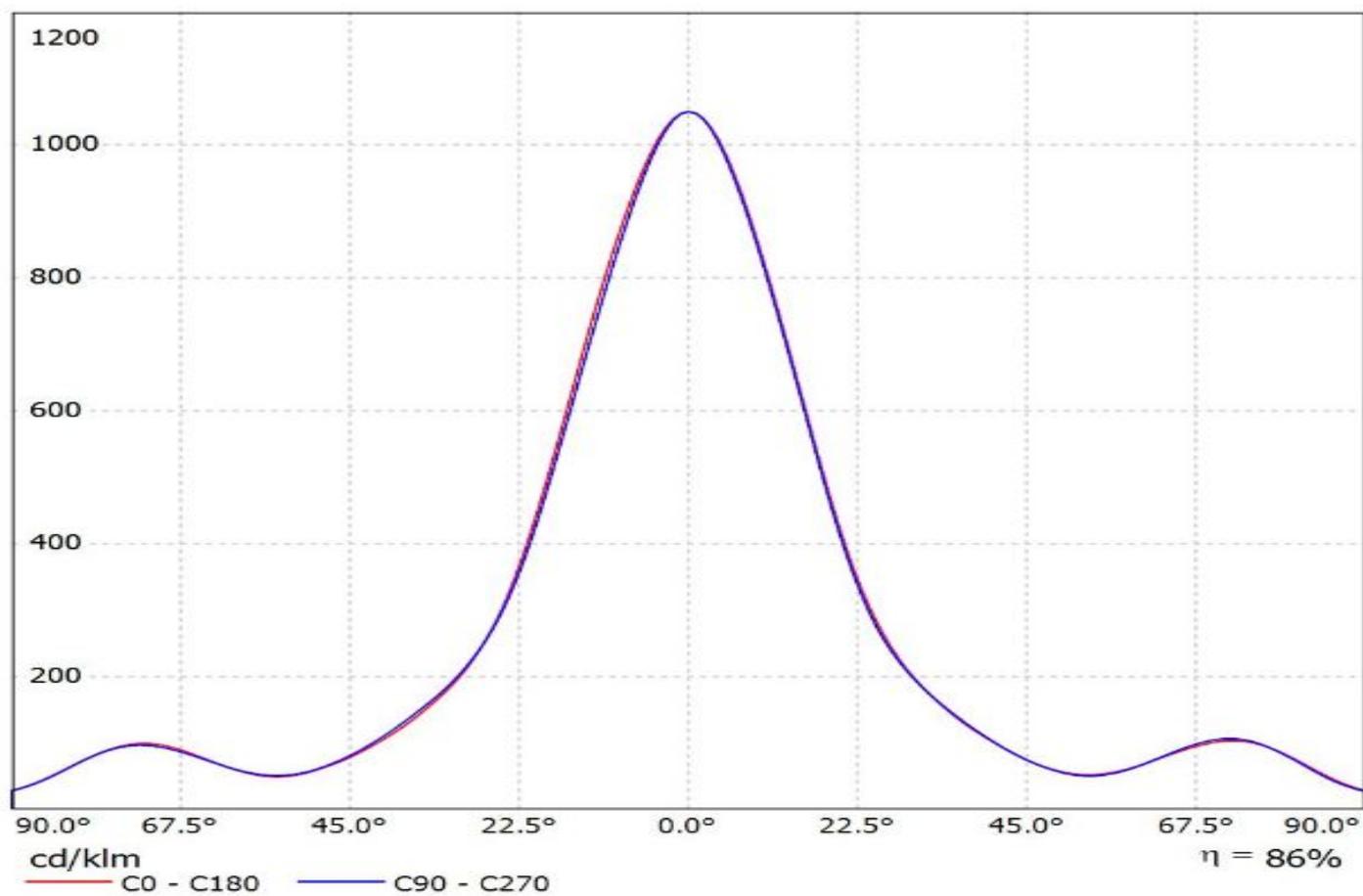
Luminaire: LEDiL Oy FN14720\_STELLA-FRESNEL\_(SLE-G5\_LES-19)  
Lamps: 1 x Tridonic\_SLE-G5\_LES-19\_1189.9lm@250mA\_P=8.3068W\_I=0.250A



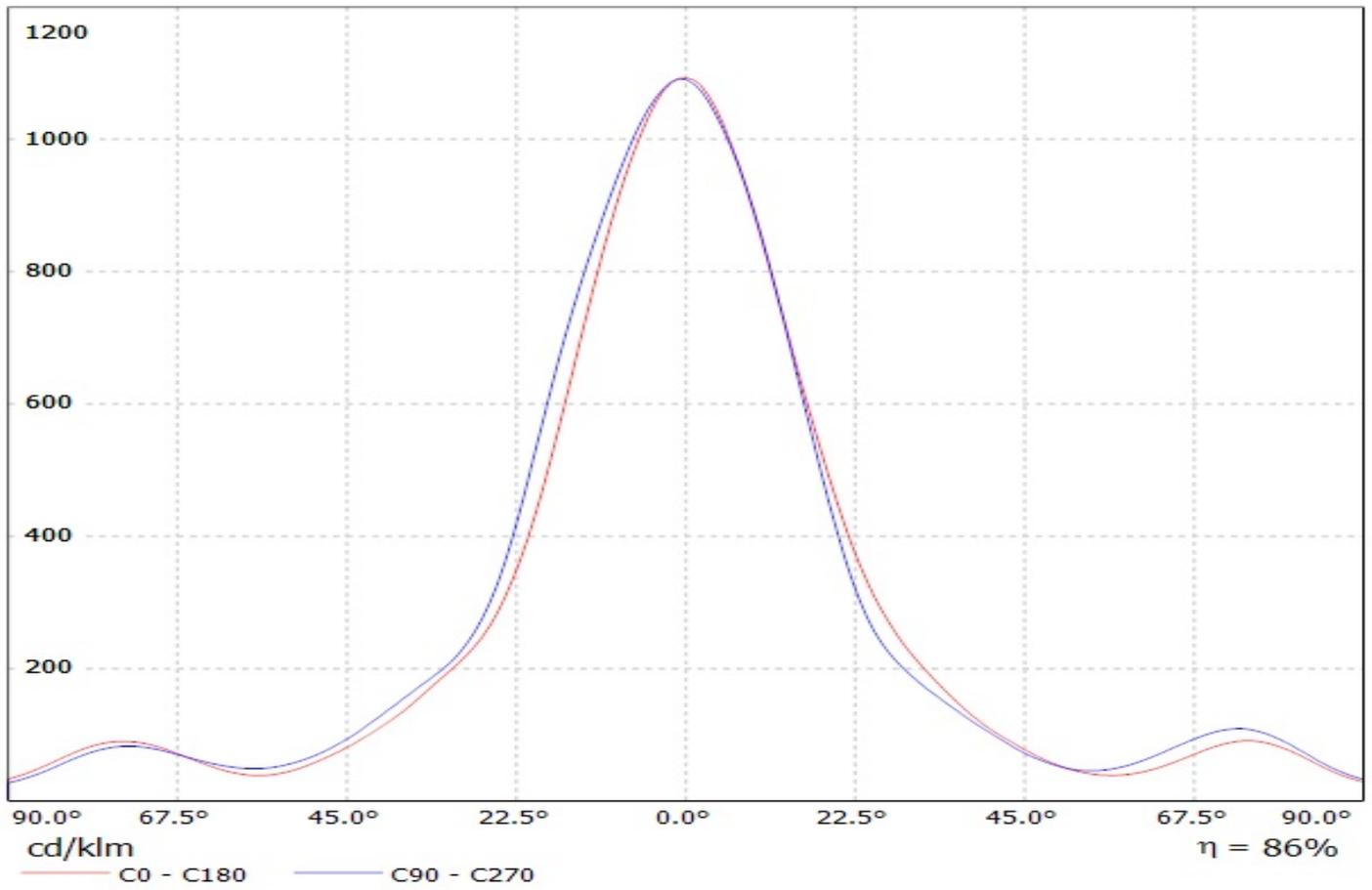
Luminaire: Ledil FN14720\_STELLA-FRESNEL\_(Soleriq\_S19)  
Lamps: 1 x Osram\_Soleriq\_S19\_(GW-KAHJB1.EM)\_1487.02lm@250mA\_P=10.562W\_I=0.25A



Luminaire: LEDiL Oy FN14720\_STELLA-FRESNEL\_(SLE-G5\_LES-23)  
Lamps: 1 x Tridonic\_SLE-G5\_LES-23\_1408.28lm@250mA\_P=8.1392W\_I=0.250A

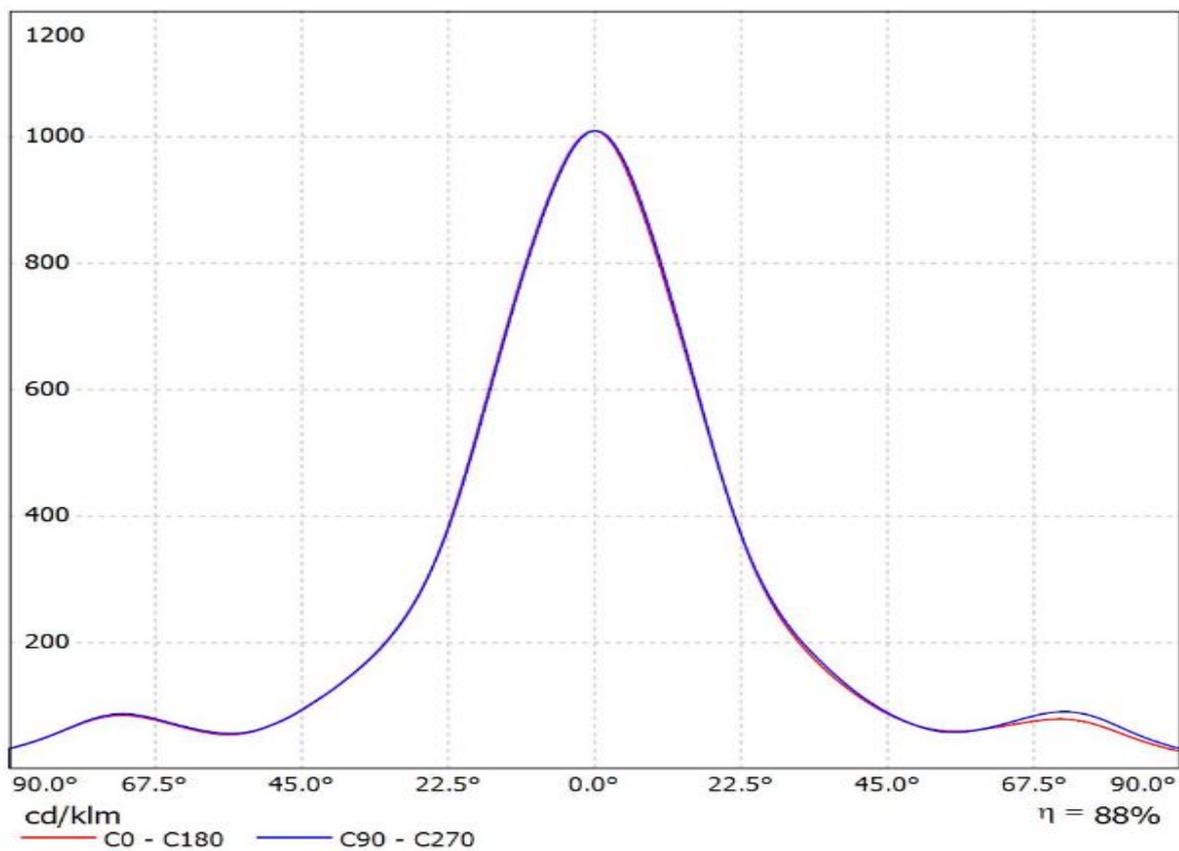


Luminaire: LEDiL Oy FN14720\_STELLA-FRESNEL\_(CLU046)  
Lamps: 1 x Citizen\_CLU046\_1354.66lm@250mA\_P=8.06877W\_I=0.2499A

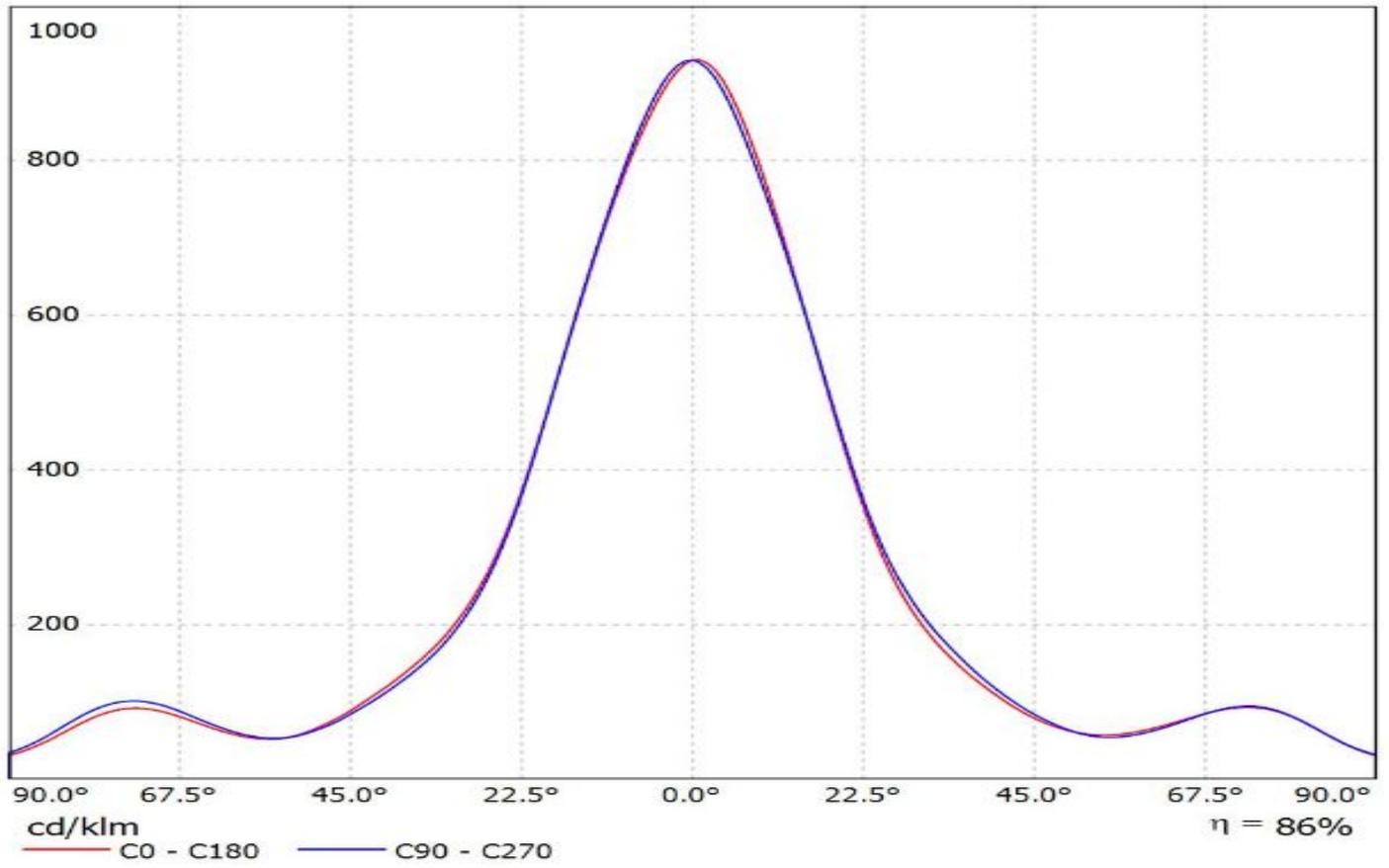


Luminaire: Ledil FN14720\_STELLA-FRESNEL (CXB3070 +BJB)

Lamps: 1 x Cree\_CXB3070\_(-30G-AD-N0H-0001)\_+BJB\_47.319.2150\_1399.52lm@250mA\_CCT=3000K\_P=8.0355W\_I=0.25A

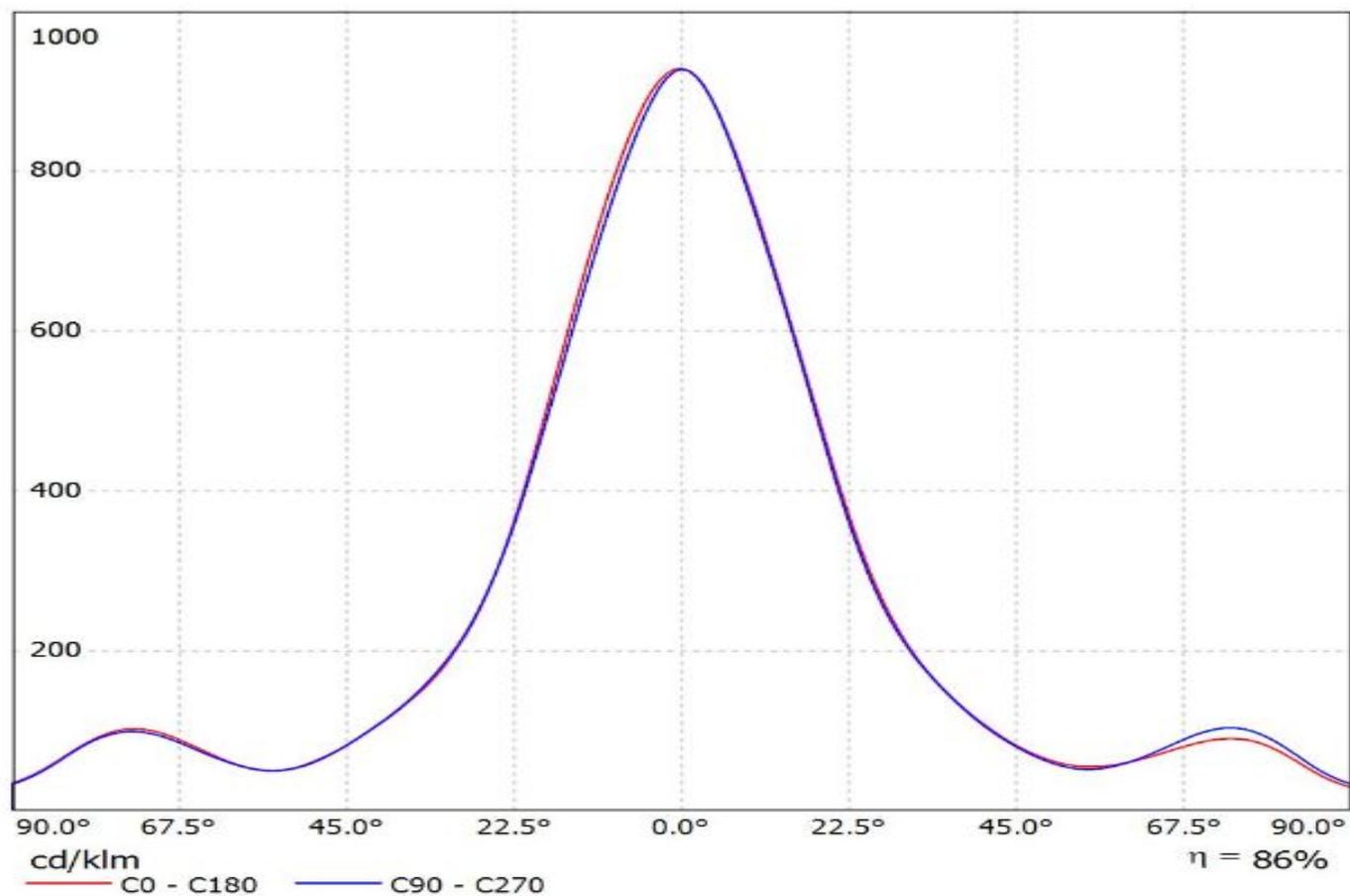


Luminaire: Ledil FN14720\_STELLA-FRESNEL\_(CXM-22\_+BW)  
Lamps: 1 x LUMINUS\_CXM-22\_+Bender&Wirth\_431TypL3\_1259.61lm@250mA\_P=8.0332W\_CCT=3000K\_I=0.25A



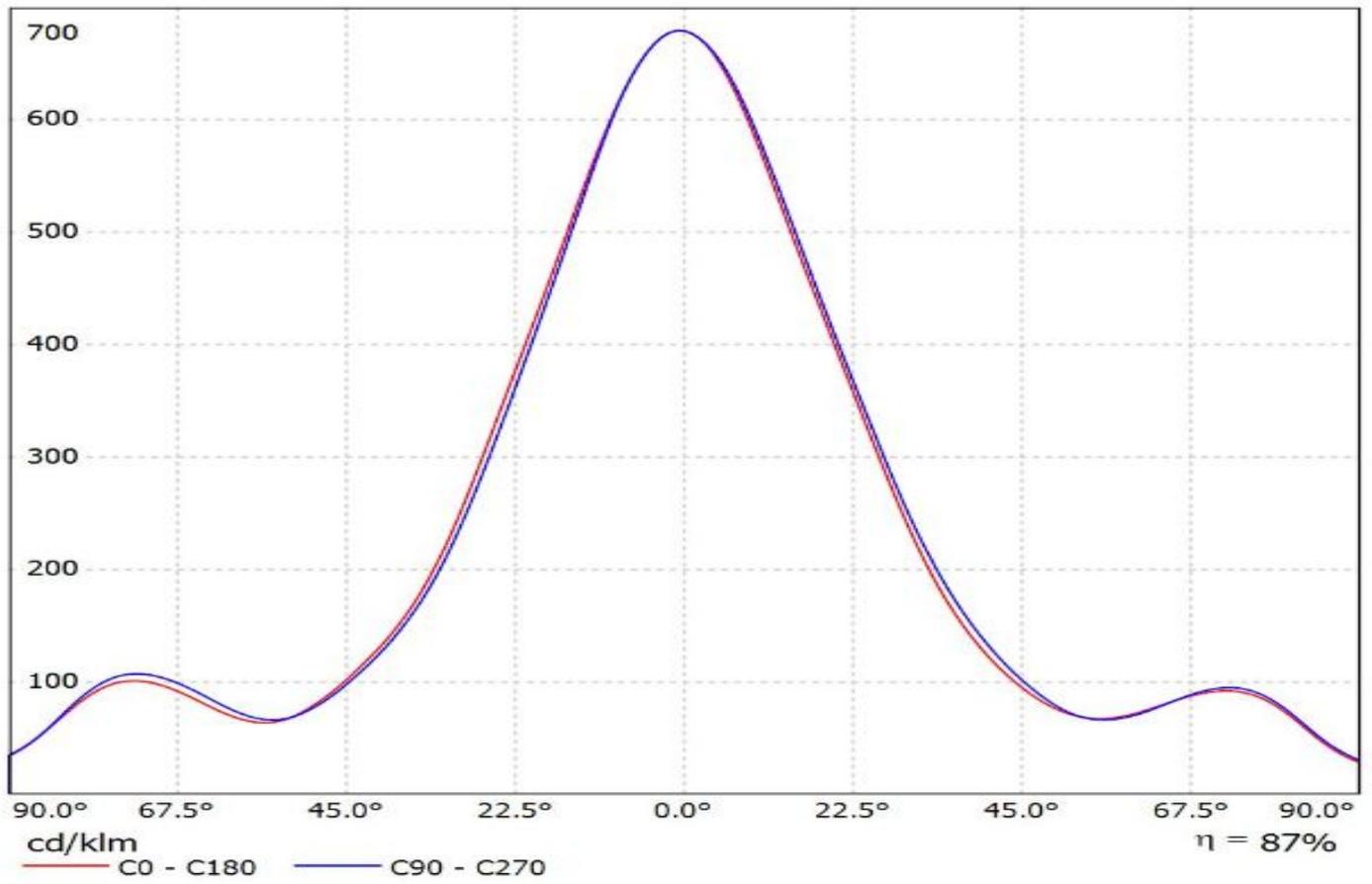
Luminaire: Ledil FN14720\_STELLA-FRESNEL\_(CoB\_1216)

Lamps: 1 x Luxeon\_CoB\_1216\_(L2C2-40801216E2300)\_1468.12lm@250mA\_P=7.9868W\_η=0.25A

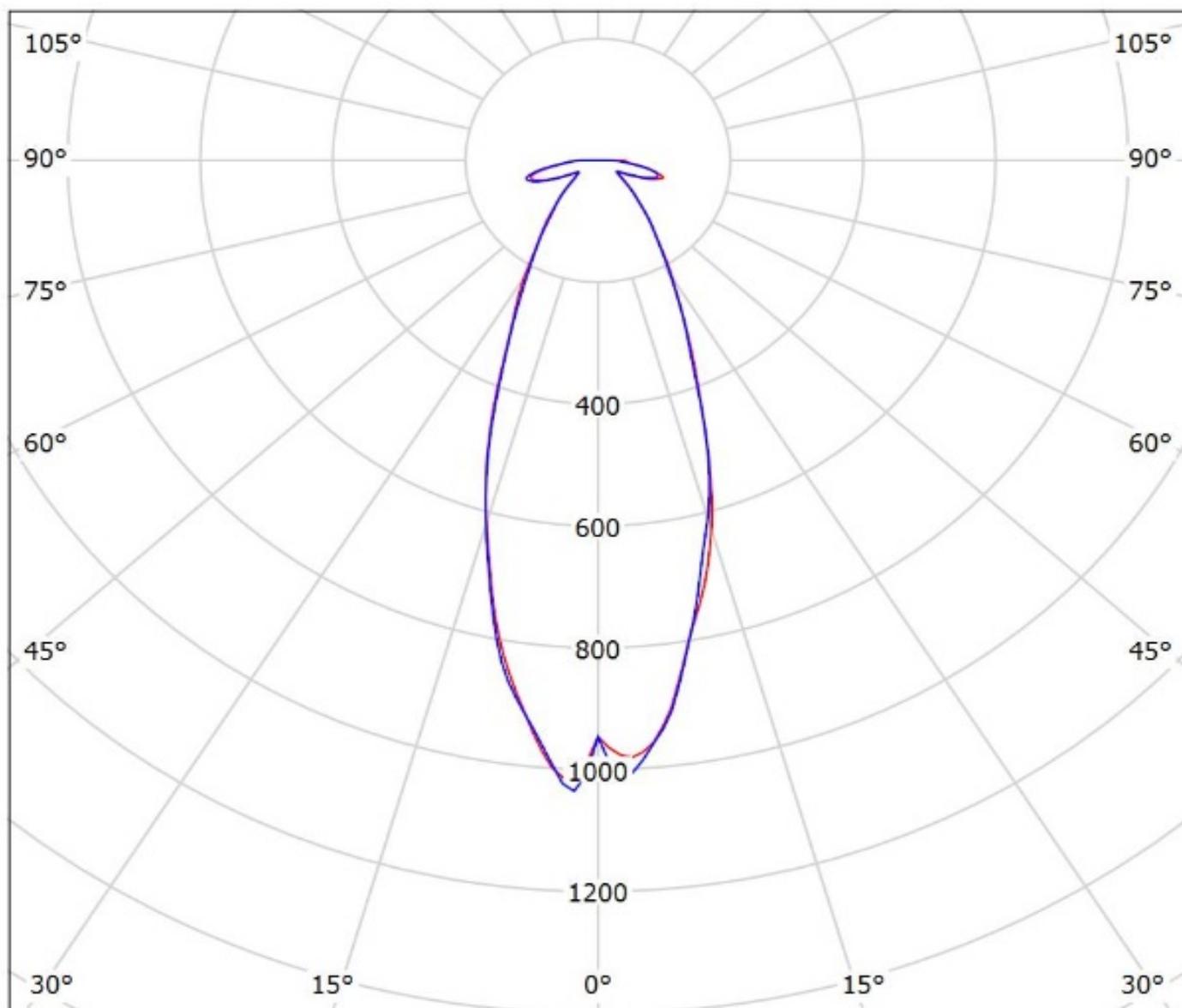


Luminaire: Ledil FN14720\_STELLA-FRESNEL\_(Vero29)

Lamps: 1 x Bridgelux\_Vero29\_(30-E10K0L-Y2)\_1467.5lm@250mA\_P=8.8850W\_I=0.25A



Luminaire: Ledil Oy FN14720\_STELLA-FRESNEL\_(CXA3590)\_SIMULATED  
Lamps: 1 x Cree CXA3590

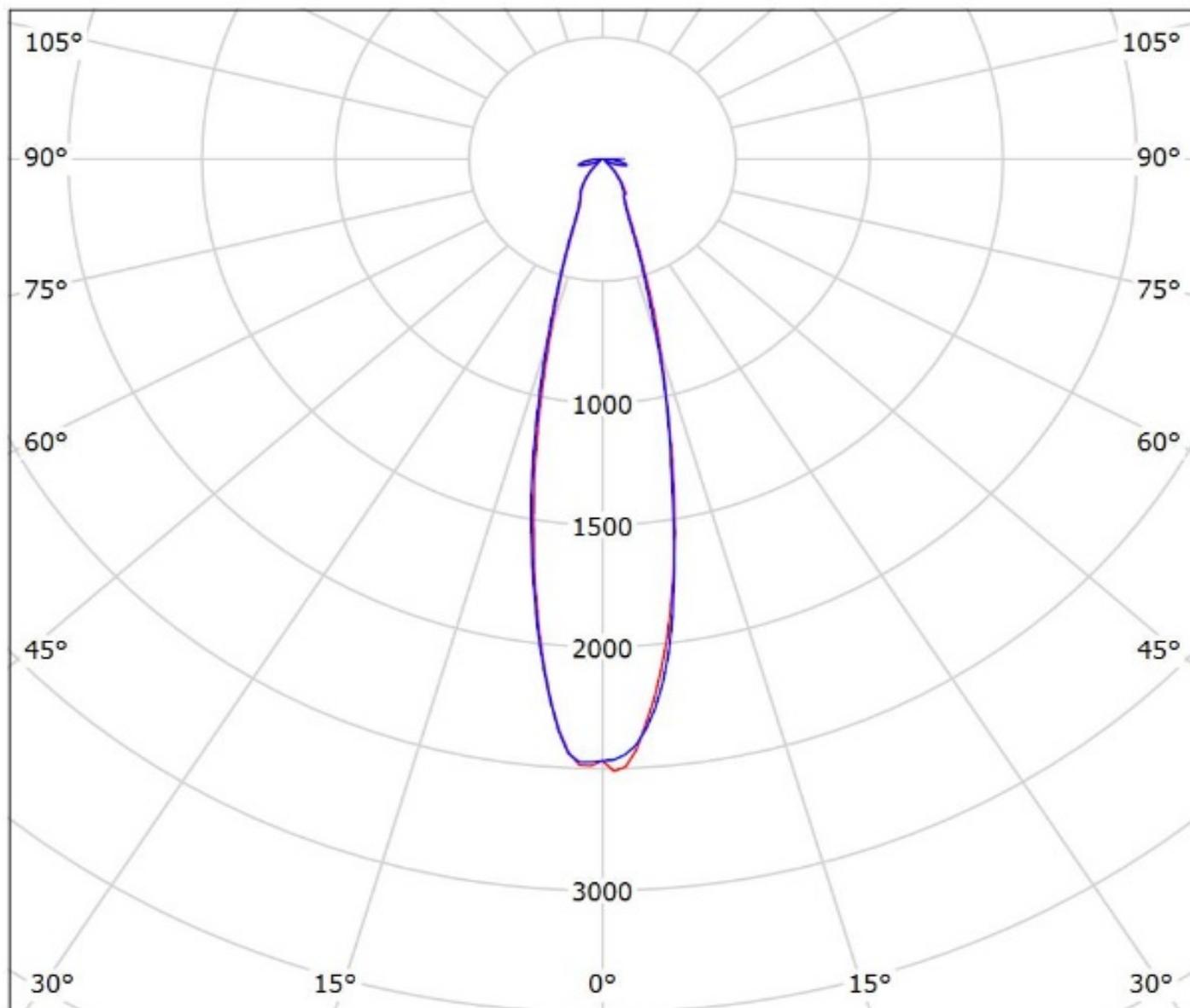


cd/klm

— C0 - C180 — C90 - C270

$\eta = 83\%$

Luminaire: Ledil Oy FN14720\_STELLA-FRESNEL\_(CXA2590)\_SIMULATED  
Lamps: 1 x Cree CXA2590

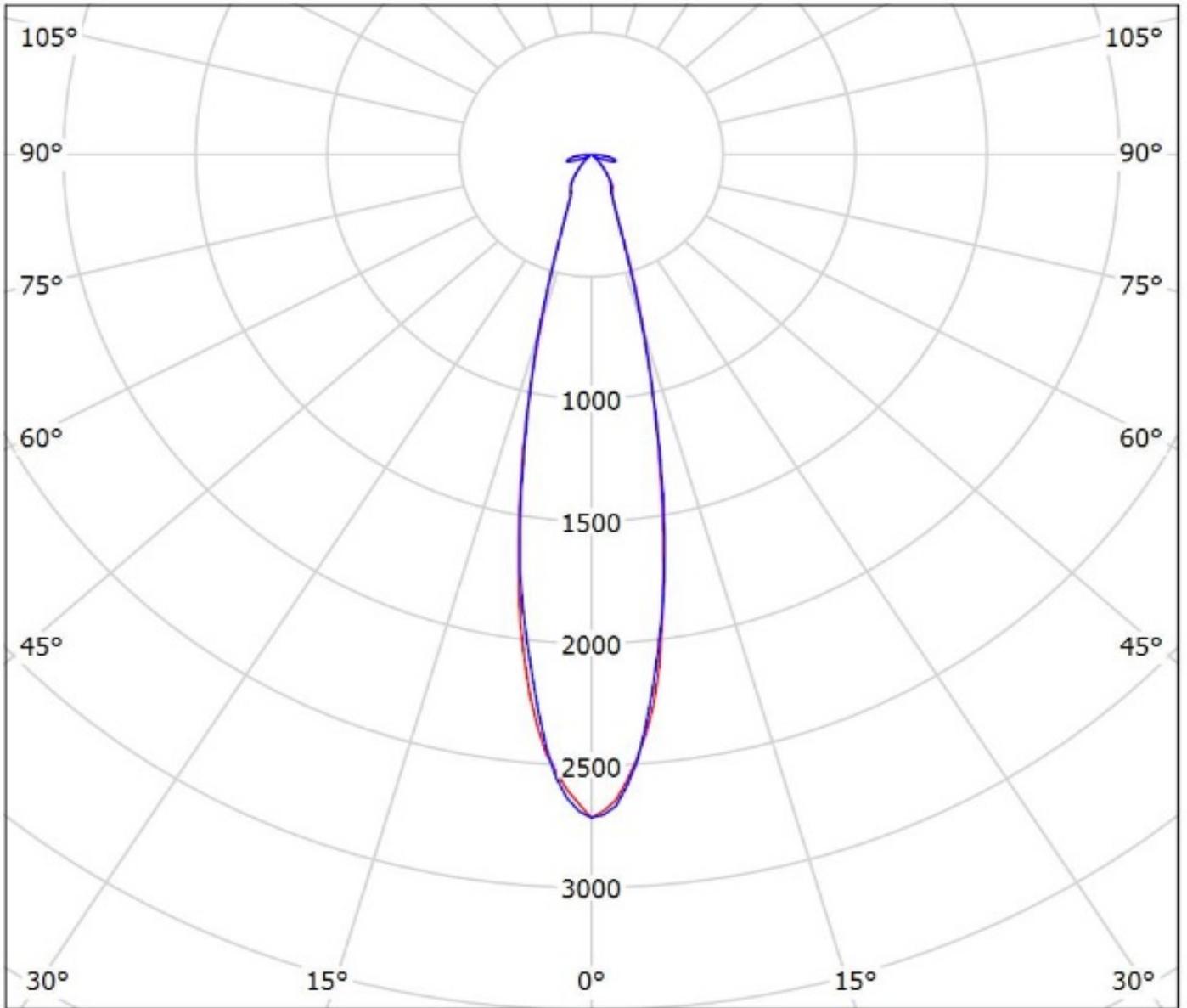


cd/klm

— C0 - C180 — C90 - C270

$\eta = 83\%$

Luminaire: Ledil Oy FN14720\_STELLA-FRESNEL\_(Luxeon\_CoB\_1208)\_SIMULATED  
Lamps: 1 x Lumileds Luxeon CoB 1208



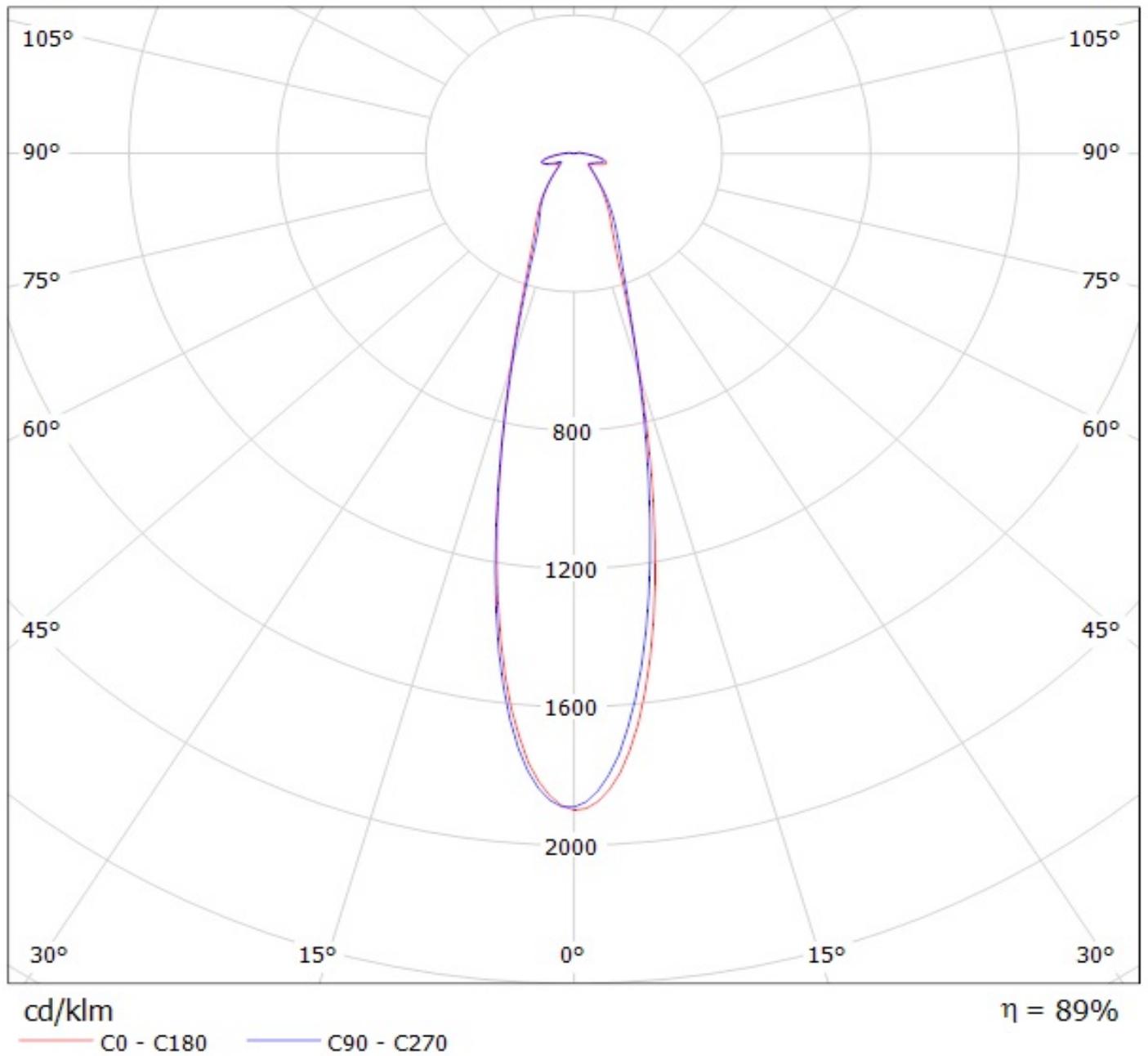
cd/klm

— C0 - C180 — C90 - C270

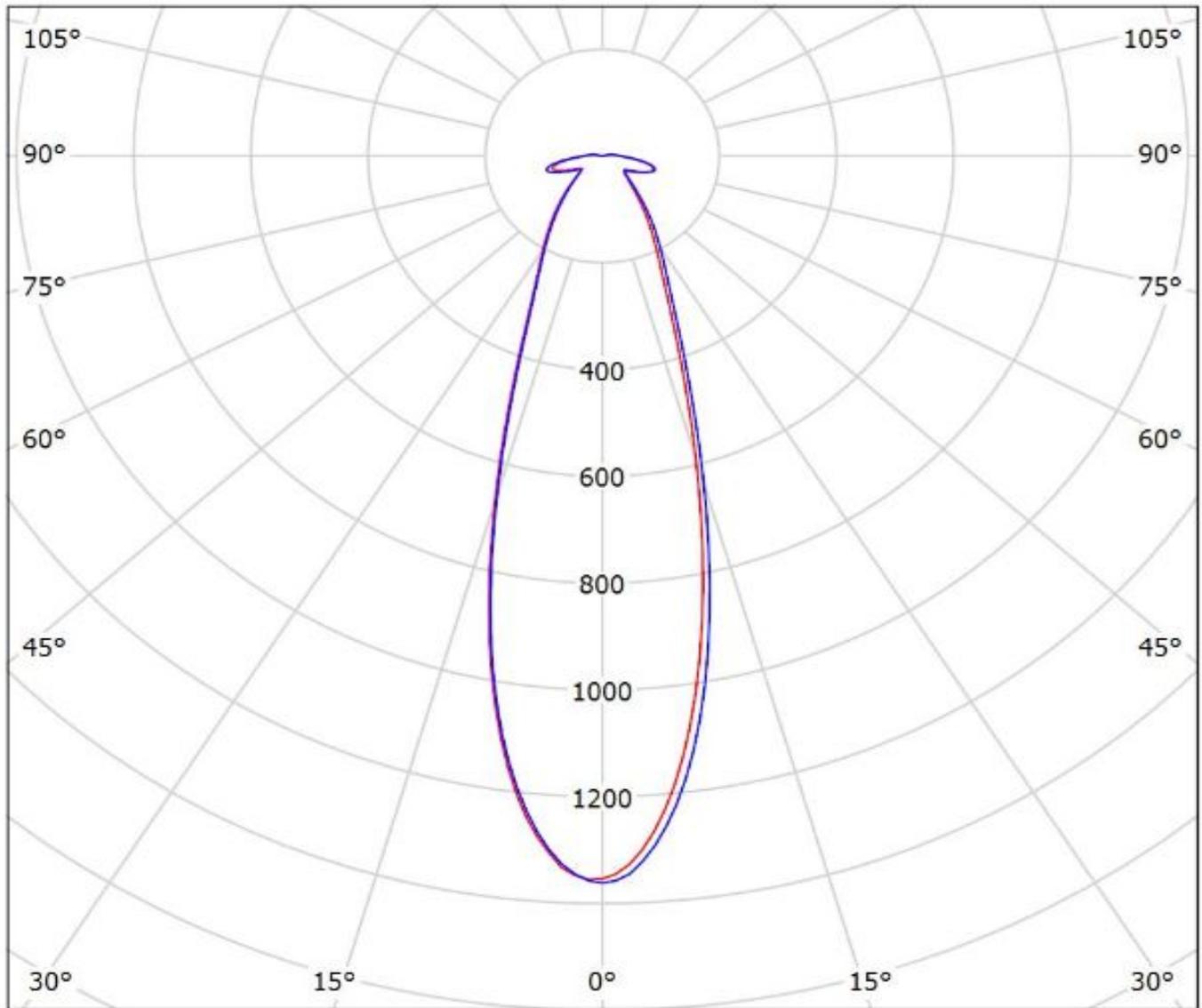
$\eta = 82\%$

Luminaire: LEDiL Oy FN14720\_STELLA-FRESNEL\_(Soleriq\_P13)\_Cav1

Lamps: 1 x Osram\_Soleriq\_P13\_(GQ\_MAGMB1.EM)\_922.464lm@250mA\_P=8.69804W\_I=0.2498A



Luminaire: LEDiL Oy FN14720\_STELLA-FRESNEL\_(SLE-G5\_LES-19)  
Lamps: 1 x Tridonic\_SLE-G5\_LES-19\_1189.9lm@250mA\_P=8.3068W\_I=0.250A



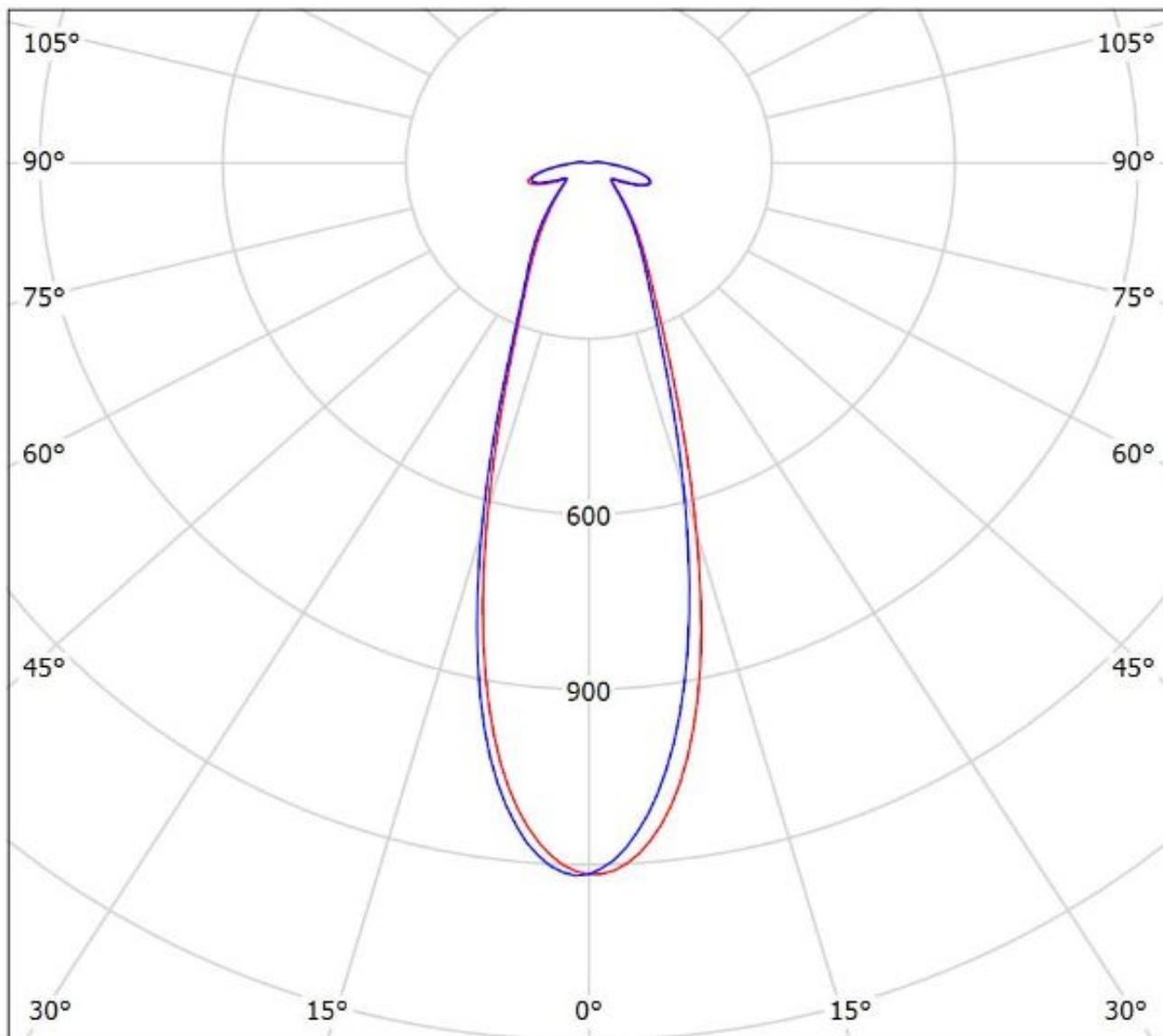
cd/klm

— C0 - C180 — C90 - C270

$\eta = 86\%$

Luminaire: Ledil FN14720\_STELLA-FRESNEL\_(Soleriq\_S19)

Lamps: 1 x Osram\_Soleriq\_S19\_(GW-KAHJB1.EM)\_1487.02lm@250mA\_P=10.562W\_I=0.25A

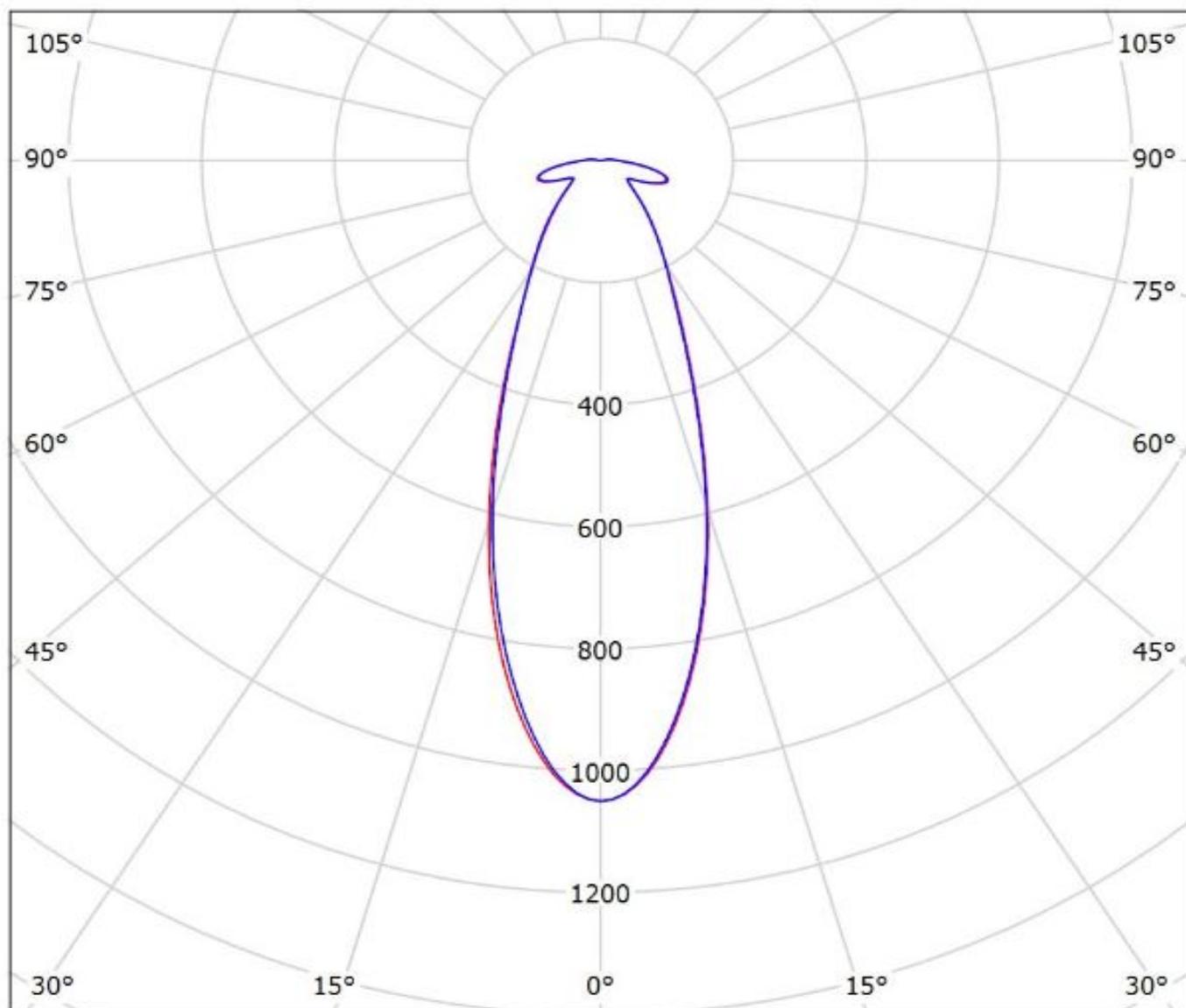


cd/klm

— C0 - C180 — C90 - C270

$\eta = 85\%$

Luminaire: LEDiL Oy FN14720\_STELLA-FRESNEL\_(SLE-G5\_LES-23)  
Lamps: 1 x Tridonic\_SLE-G5\_LES-23\_1408.28lm@250mA\_P=8.1392W\_I=0.250A

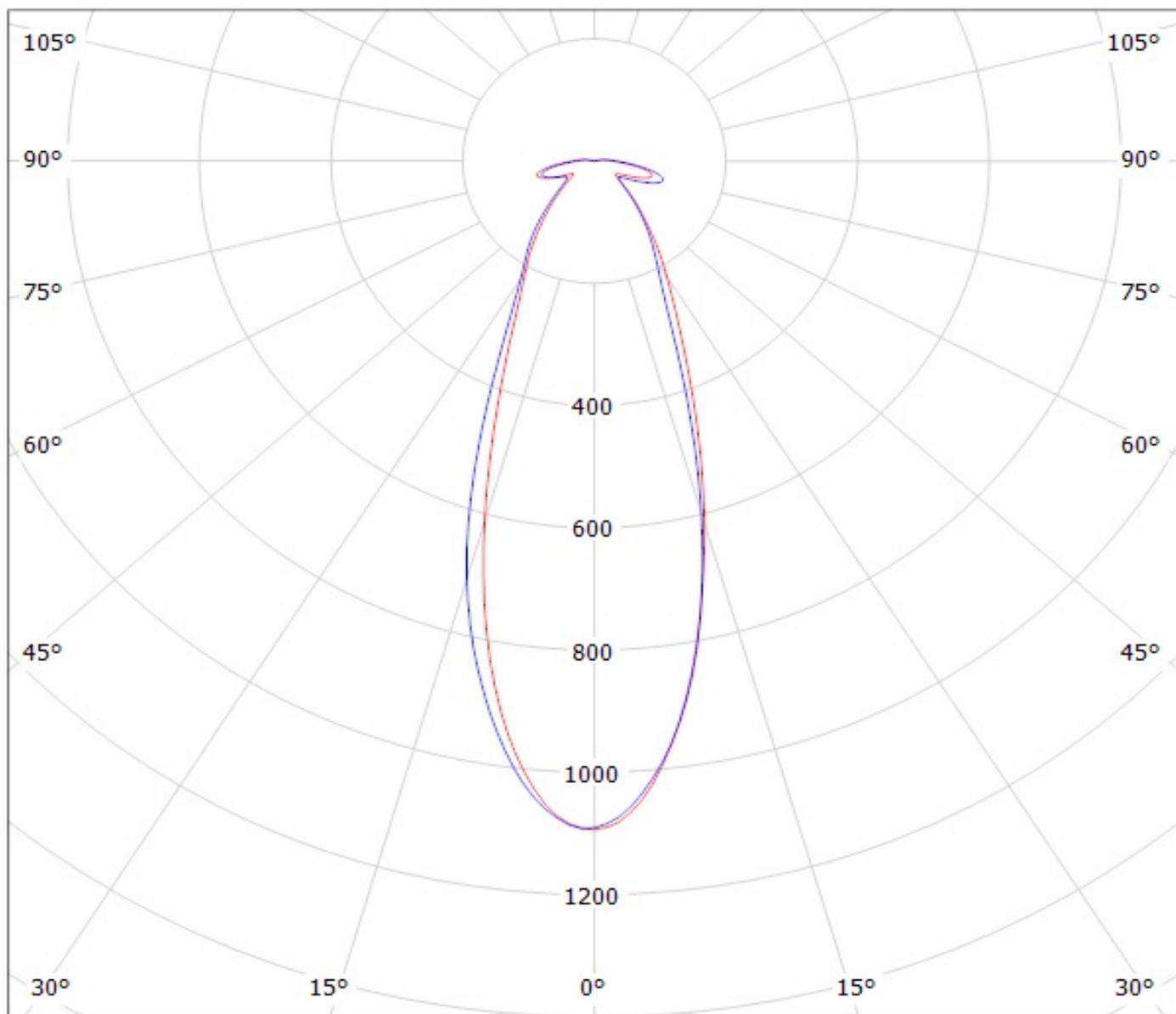


cd/klm  
— C0 - C180 — C90 - C270

$\eta = 86\%$

Luminaire: LEDiL Oy FN14720\_STELLA-FRESNEL\_(CLU046)

Lamps: 1 x Citizen\_CLU046\_1354.66lm@250mA\_P=8.06877W\_I=0.2499A



cd/klm

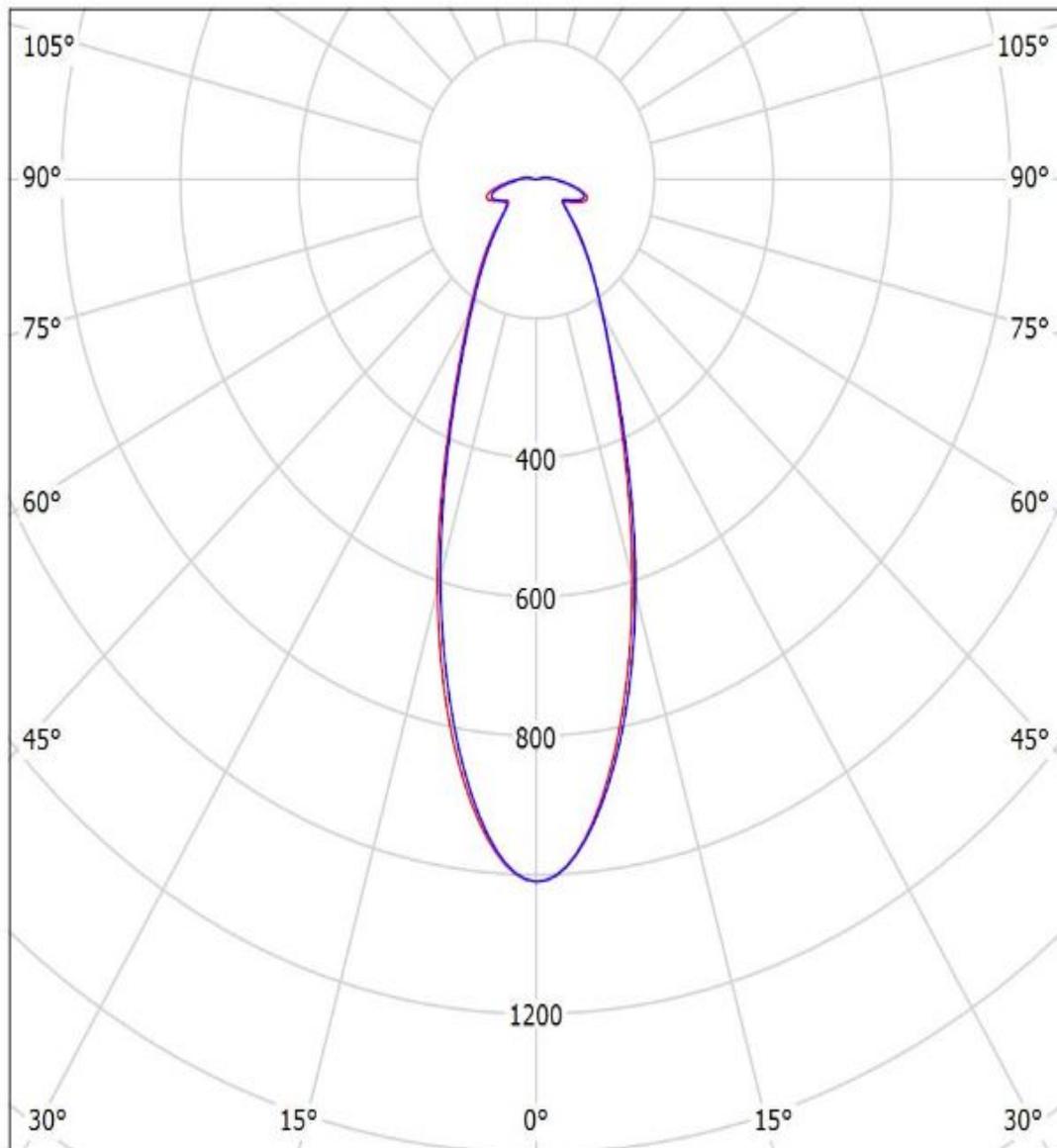
— C0 - C180

— C90 - C270

$\eta = 86\%$

Luminaire: Ledil FN14720\_STELLA-FRESNEL\_(CXB3070\_+BJB)

Lamps: 1 x Cree\_CXB3070\_(-30G-AD-N0H-0001)\_+BJB\_47.319.2150\_1399.52lm@250mA\_CCT=3000K\_P=8.0355W\_I=0.25A



cd/klm

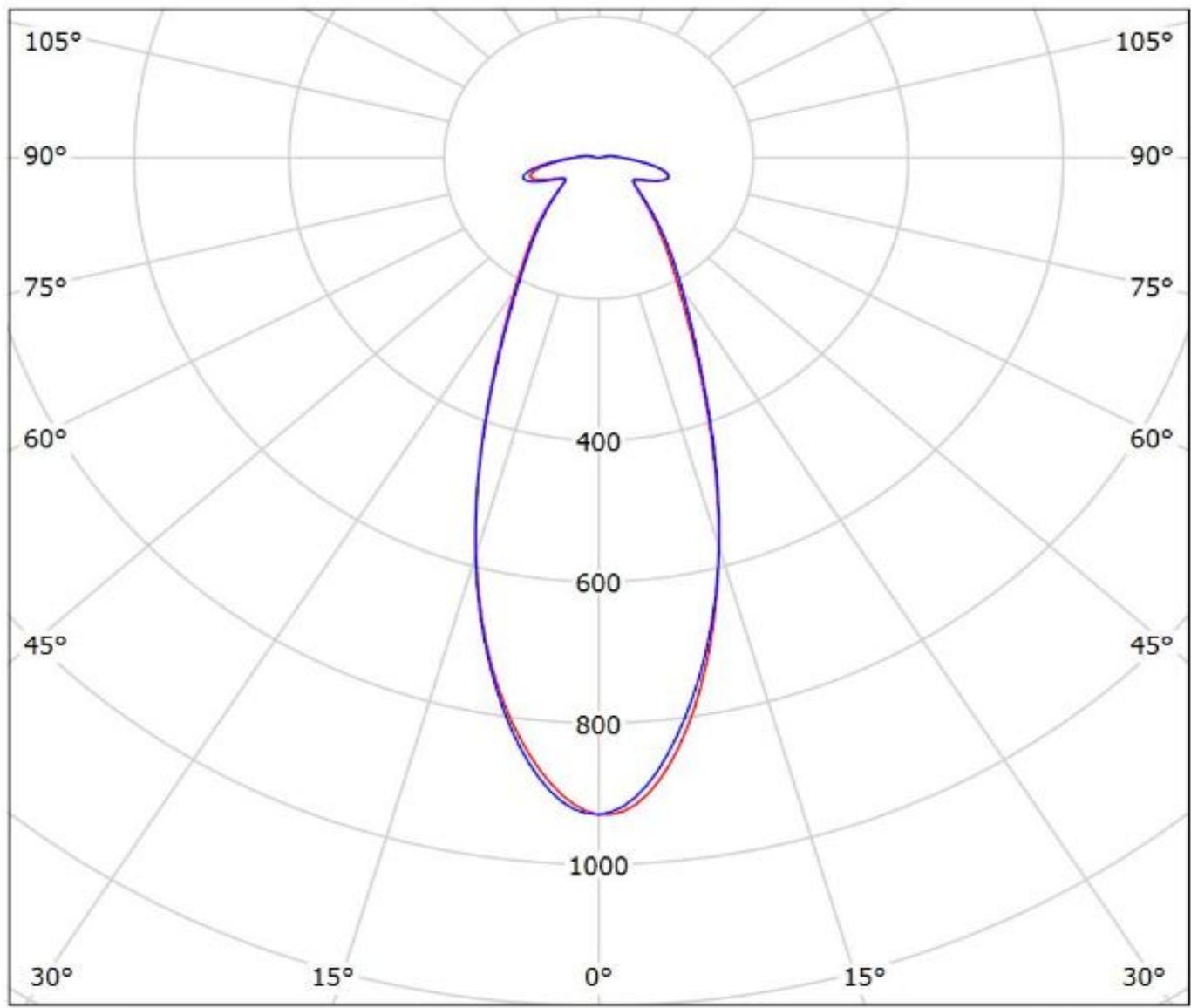
— C0 - C180 — C90 - C270

$\eta = 88\%$

Luminaire: Ledil FN14720\_STELLA-FRESNEL\_(CXM-22\_+BW)

Lamps: 1 x LUMINUS\_CXM-

22\_+Bender&Wirth\_431TypL3\_1259.61lm@250mA\_P=8.0332W\_CCT=3000K\_I=0.25A



cd/klm

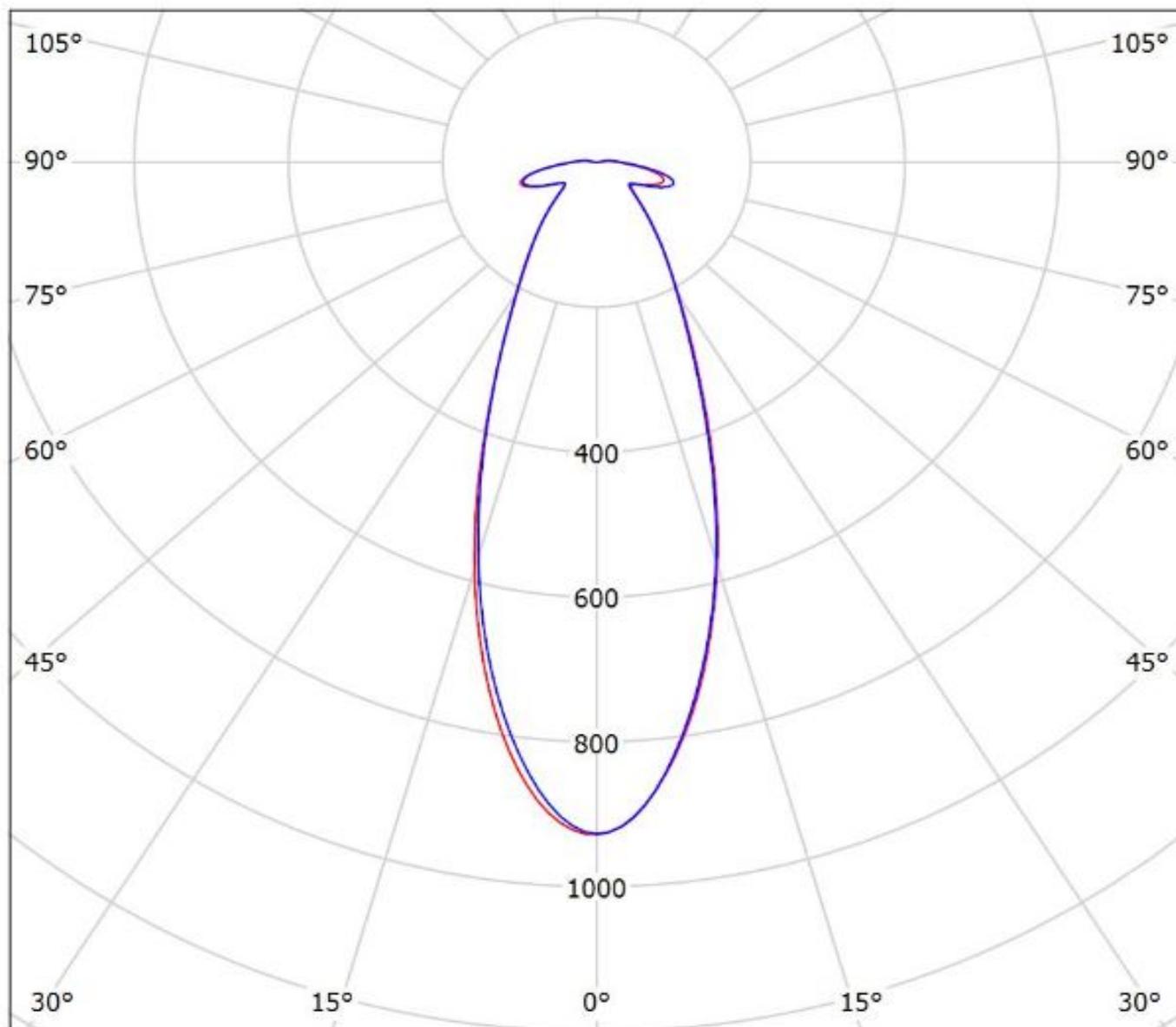
— C0 - C180

— C90 - C270

$\eta = 86\%$

Luminaire: Ledil FN14720\_STELLA-FRESNEL\_(CoB\_1216)

Lamps: 1 x Luxeon\_CoB\_1216\_(L2C2-40801216E2300)\_1468.12lm@250mA\_P=7.9868W\_I=0.25A



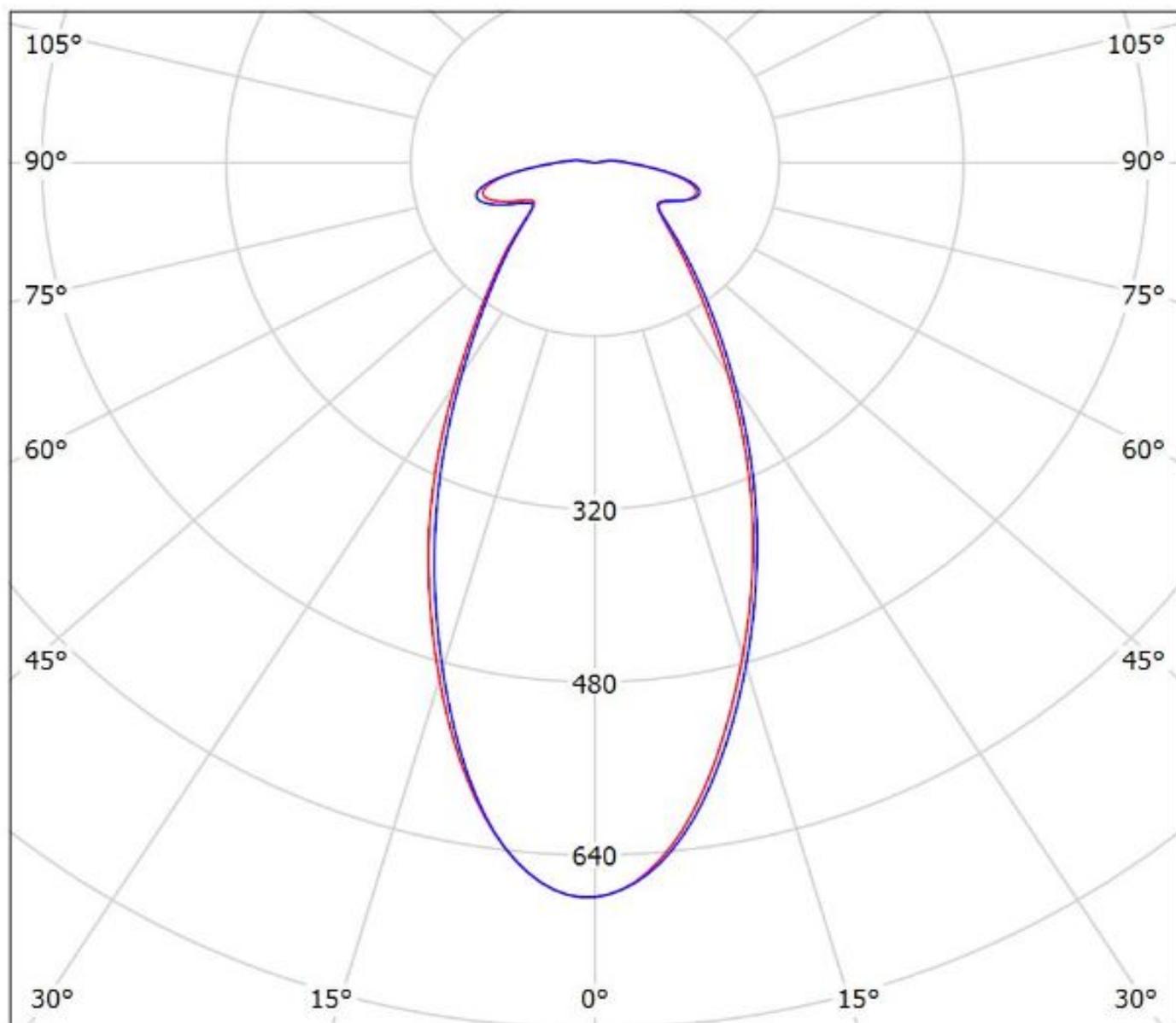
cd/klm

— C0 - C180 — C90 - C270

$\eta = 86\%$

Luminaire: Ledil FN14720\_STELLA-FRESNEL\_(Vero29)

Lamps: 1 x Bridgelux\_Vero29\_(30-E10K0L-Y2)\_1467.5lm@250mA\_P=8.8850W\_I=0.25A



cd/klm

— C0 - C180

— C90 - C270

$\eta = 87\%$

**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.