

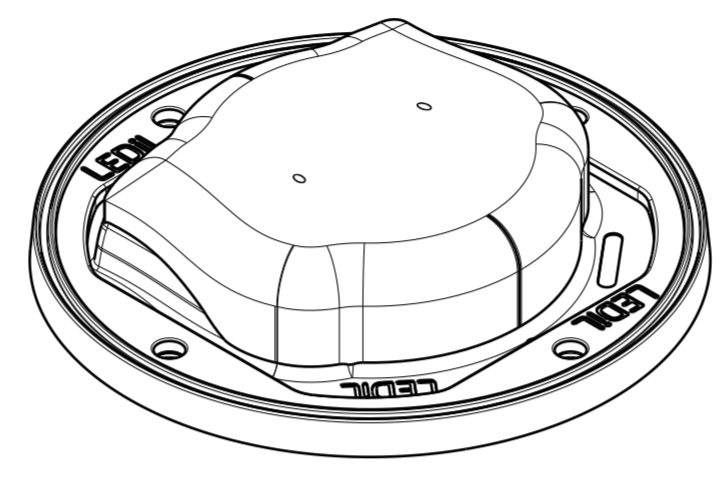
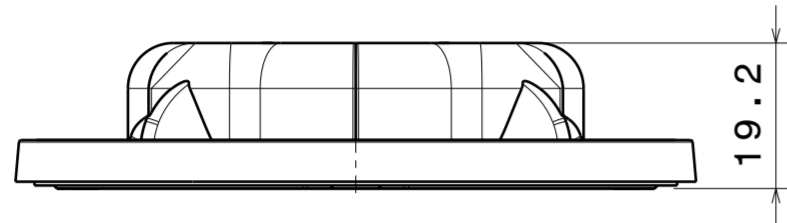
## DETAILS

<b>Product Number</b>	FN14976_STELLA-DWC2
<b>Family</b>	STELLA
<b>Type</b>	Pack
<b>Color</b>	black
<b>Diameter</b>	90 mm
<b>Height</b>	19,25 mm
<b>Style</b>	round
<b>Optic Material</b>	Silicone
<b>Holder Material</b>	
<b>Fastening</b>	
<b>Status</b>	production ready
<b>ROHS Compliant</b>	Yes
<b>Date Updated</b>	15/02/2017

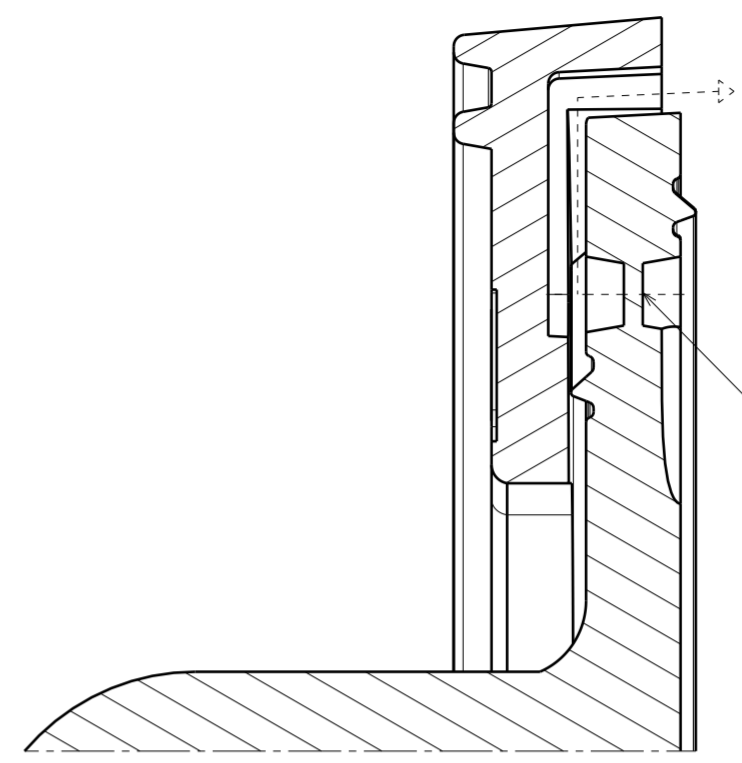


## OPTICAL PROPERTIES

LED	Viewing Angle	Light Beam	Efficiency	cd/lm	Connector
VERO10	sim: Asymmetric deg	Streetlight...	sim: 89 %	sim: 0.560	-
Vero SE 13	Asymmetric deg	Streetlight...	91 %	0.630	-
Vero SE 18	Asymmetric deg	Streetlight...	91 %	0.450	-
V18 Gen7	Asymmetric deg	Streetlight...	89 %	0.410	-
V10 Gen7	sim: Asymmetric deg	Streetlight...	sim: 89 %	sim: 0.530	Bender Wirth: 434 Typ Z1
V22 Gen7	sim: asym	Streetlight...	sim: 94 %	sim: 0.397	Bender Wirth: 431 Typ Z1
V22 Gen7	sim: asym	Streetlight...	sim: 94 %	sim: 0.397	Bender Wirth: 431 Typ Z1
V13 Gen7	sim: Asymmetric deg	Streetlight...	sim: 93 %	sim: 40.494	Bender Wirth: 477 Typ Z1
V13 Gen7	sim: Asymmetric deg	Streetlight...	sim: 91 %	sim: 0.000	-
CLL02x/CLU02x (LES10)	sim: Asymmetric deg	Streetlight...	sim: 92 %	sim: 0.600	-
CLL03x/CLU03x	sim: Asymmetric deg	Streetlight...	sim: 91 %	sim: 0.520	-
CLL04x/CLU04x	sim: Asym	Streetlight...	sim: 91 %	sim: 0.370	Bender Wirth: 431 Typ Z1
CXA/B 25xx	sim: Asymmetric deg	Streetlight...	sim: 90 %	sim: 0.440	-
CXA/B 1830	sim: Asymmetric deg	Streetlight...	sim: 91 %	sim: 0.540	-
LUXEON CoB 1208	sim: Asymmetric deg	Streetlight...	sim: 88 %	sim: 0.460	Bender Wirth: 431 Typ Z1
LUXEON CoB 1211	sim: Asymmetric deg	Streetlight...	sim: 89 %	sim: 0.400	Bender Wirth: 431 Typ Z1
LUXEON CoB 1216	sim: Asymmetric deg	Streetlight...	sim: 88 %	sim: 0.330	Bender Wirth: 431 Typ Z1
CXM-22	sim: Asym	Streetlight...	sim: 91 %	sim: 0.360	Bender Wirth: 431 Typ Z1
Soleriq S19	Asymmetric deg	Streetlight...	90 %	0.510	-
MJT COB LES 22	Asymmetric deg	Streetlight...	90 %	0.370	Bender Wirth: 431 Typ Z1
MJT COB LES 14.5	asym deg	Streetlight...	88 %	0.500	-
MJT COB LES 14.5	asym deg	Streetlight...	90 %	0.500	Bender Wirth: 433 Typ Z1

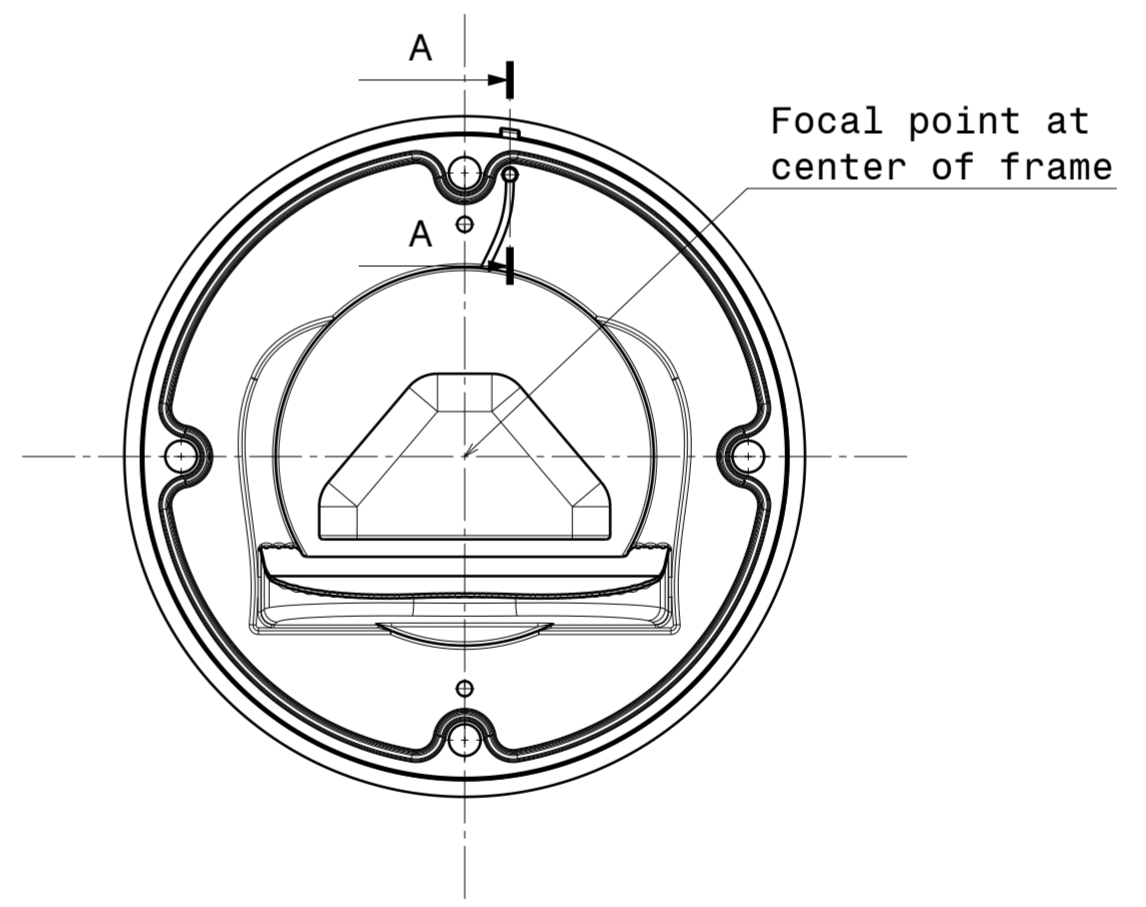
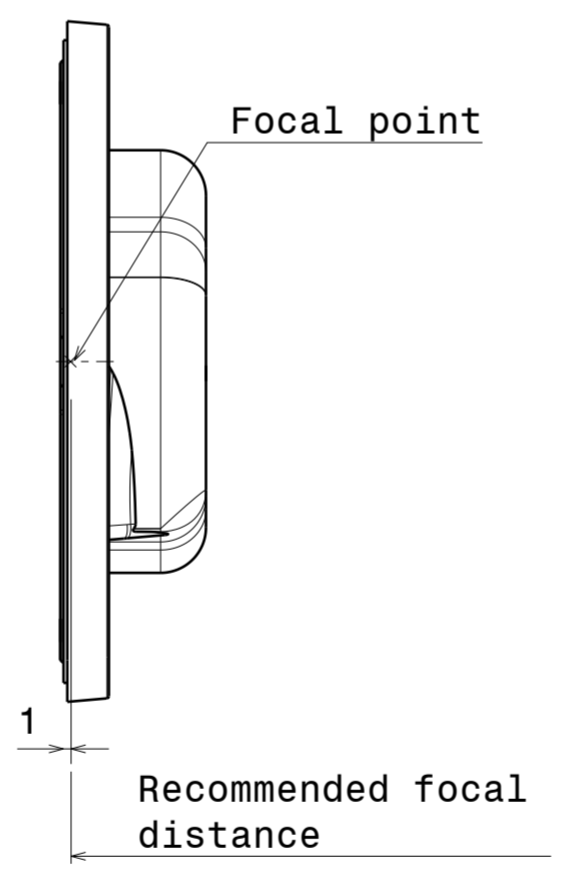
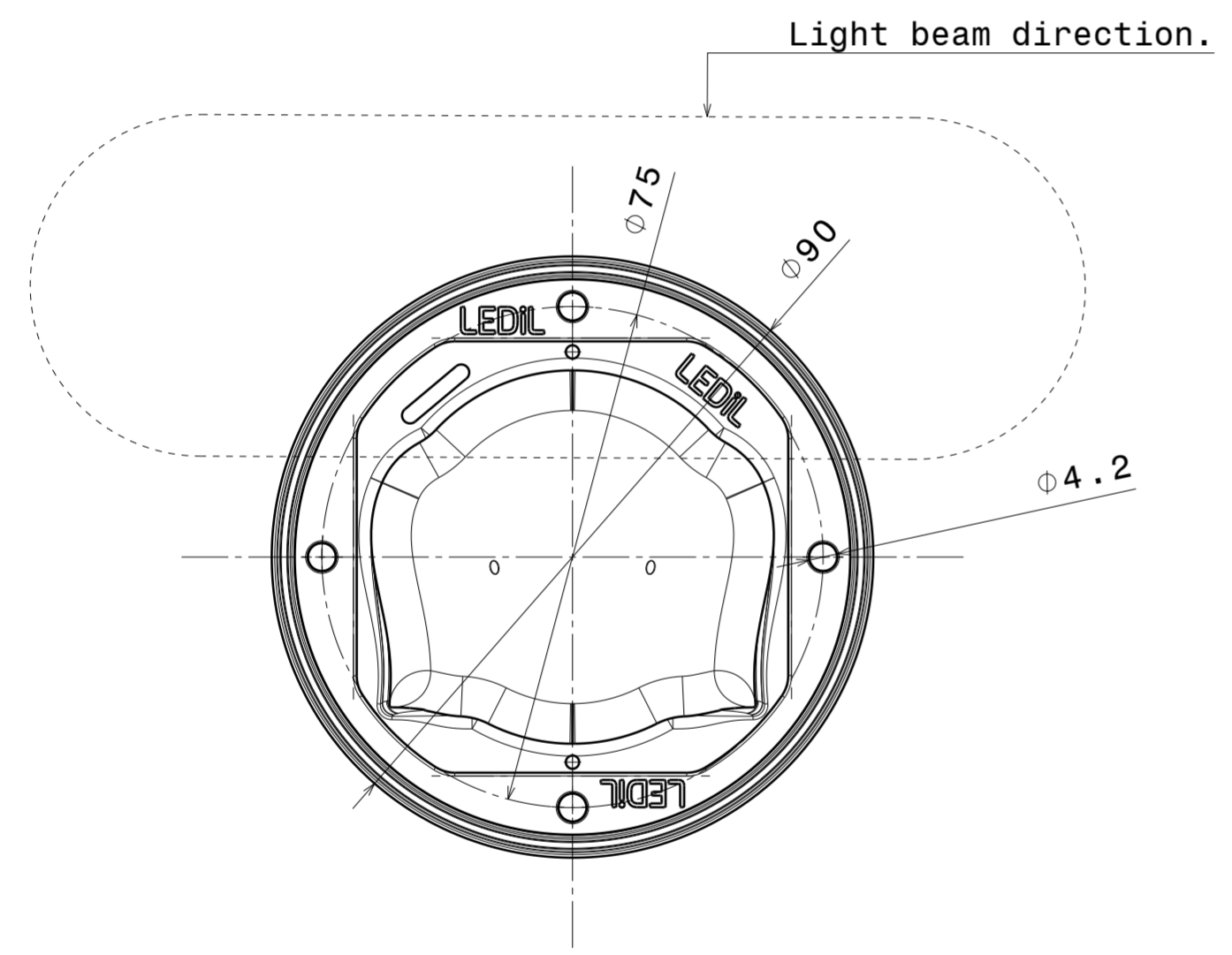


Isometric view  
Scale: 1:1



Venting pipe:  
Piercing this membrane  
will Allow lens breathing

Section view A-A  
Scale: 5:1



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

INDEX	PART NO	DESCRIPTION	MATERIAL	COLOUR
1	STELLA-DWC2	LENS	Optical grade LSR	
2	STELLA-DWC2	FRAME	PA66GF30	black/white

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.

THIRD ANGLE PROJECTION:

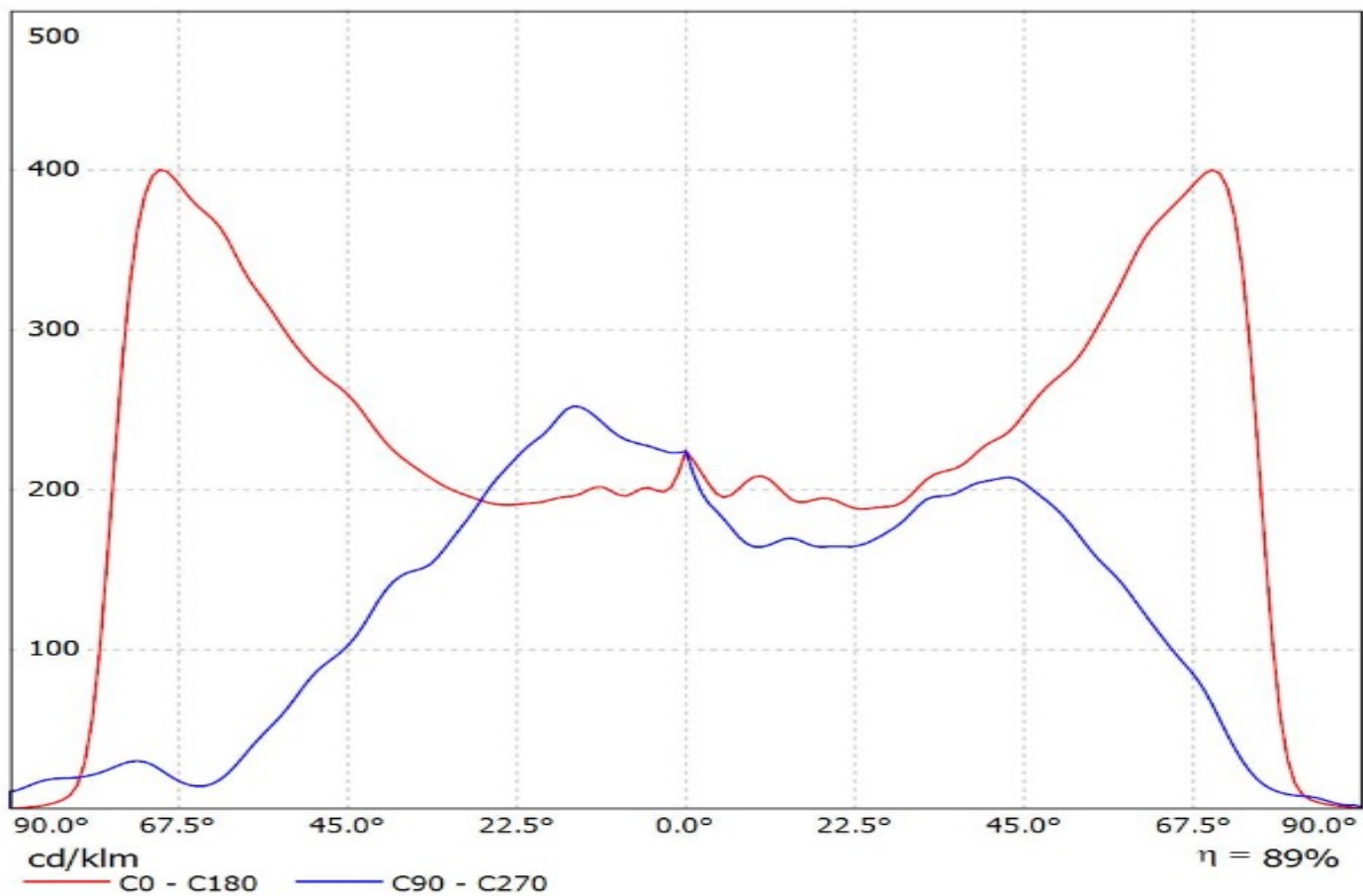
This drawing is the property of LEDiL Oy. It may not be reproduced, copied or communicated without a written agreement with LEDiL Oy.

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

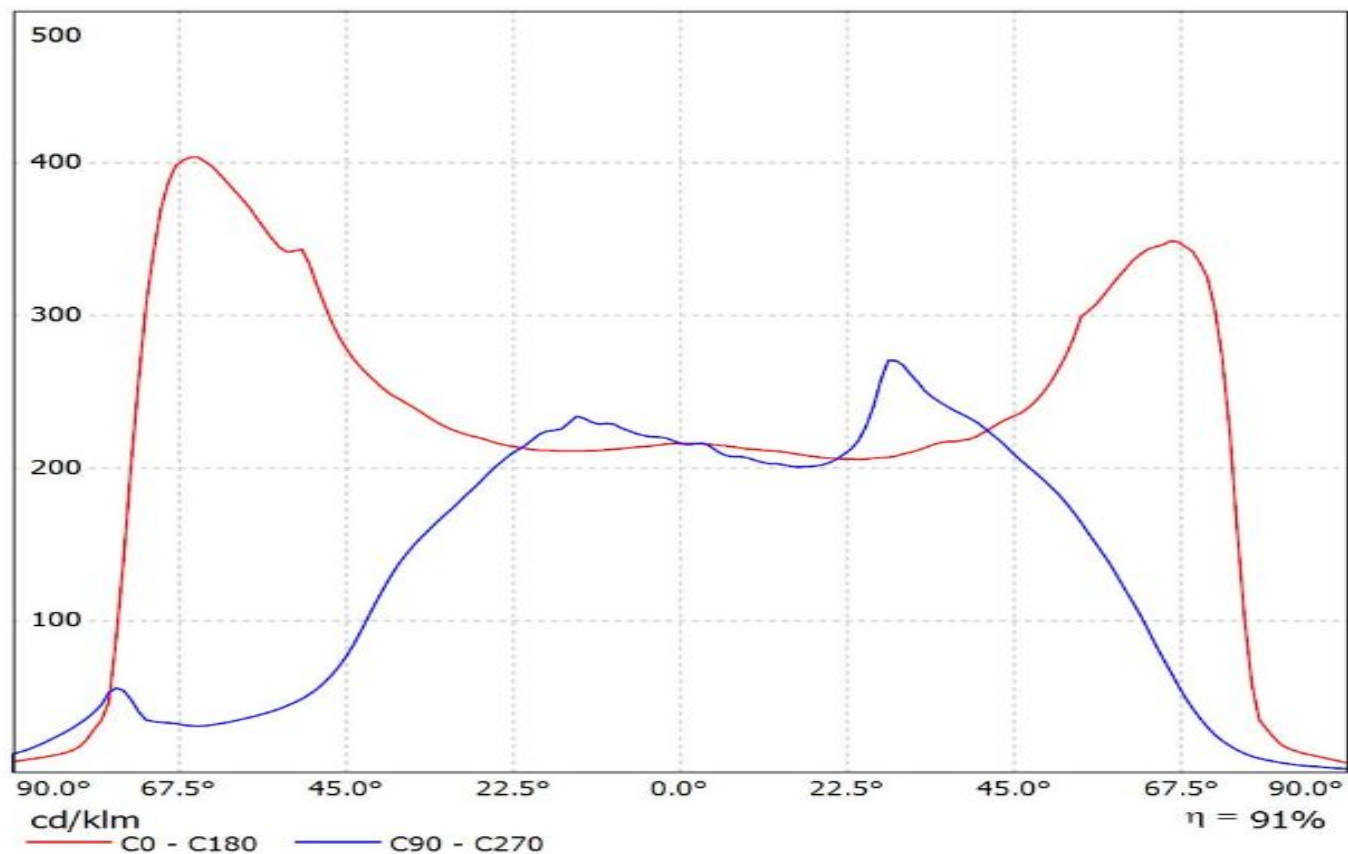
DRAWING TITLE  
**STELLA-DWC2 datasheet**

SIZE	PART NUMBER
A2	FN14976
SCALE	1:1
WEIGHT	-
SHEET	1/1

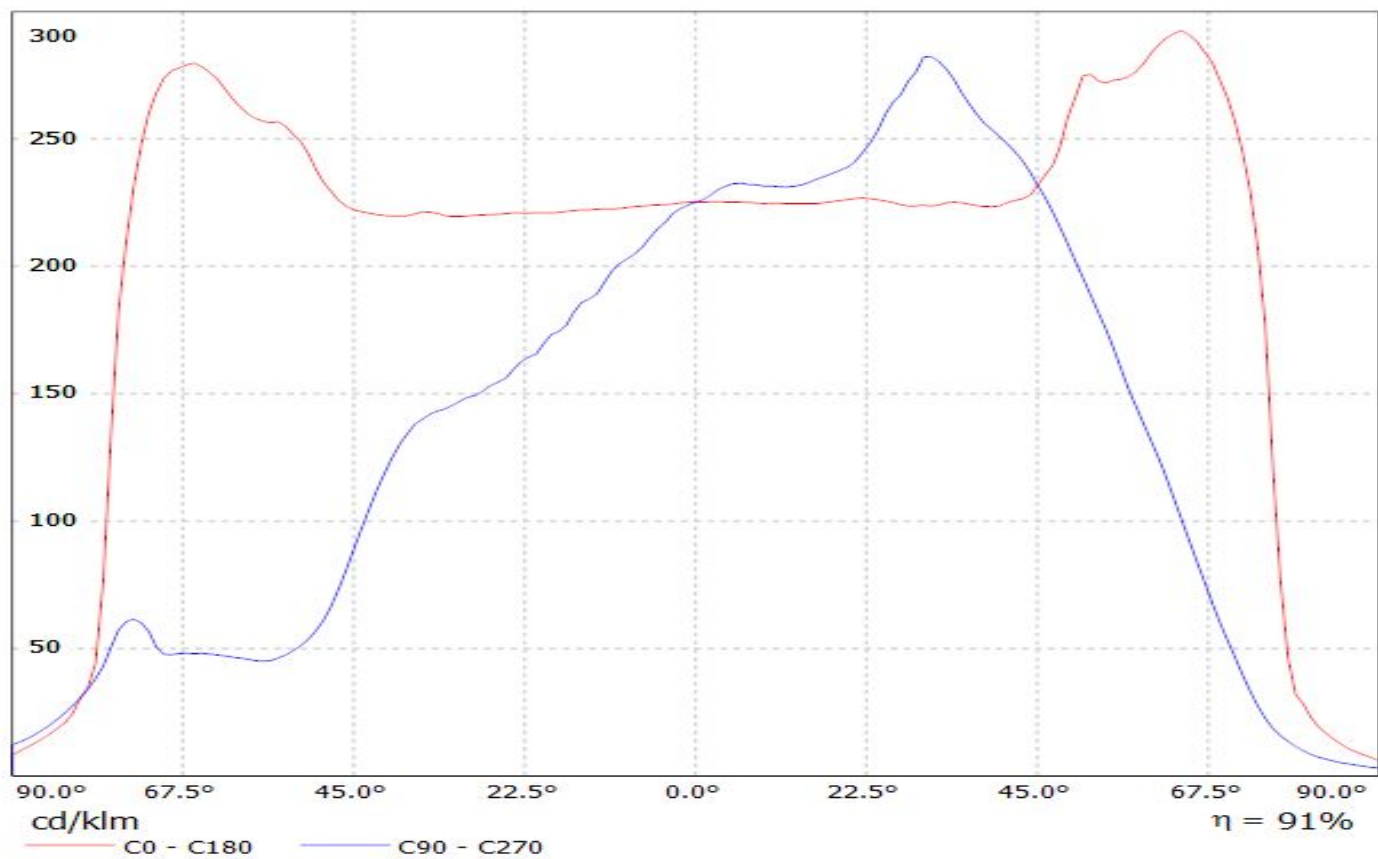
Luminaire: Ledil Oy FN14976\_STELLA-DWC2\_(VERO10)\_SIMLATED  
Lamps: 1 x Bridgelux VERO10 (BXRC\_30E1000)



Luminaire: Ledil FN14976\_STELLA-DWC2\_(Vero\_13\_SE)  
Lamps: 1 x Bridgelux\_Vero\_13\_SE\_(BXRC-30E2000-C-73-SE)  
\_1310.97lm@250mA\_CCT=3000K\_P=8.17575W\_I=0.25A

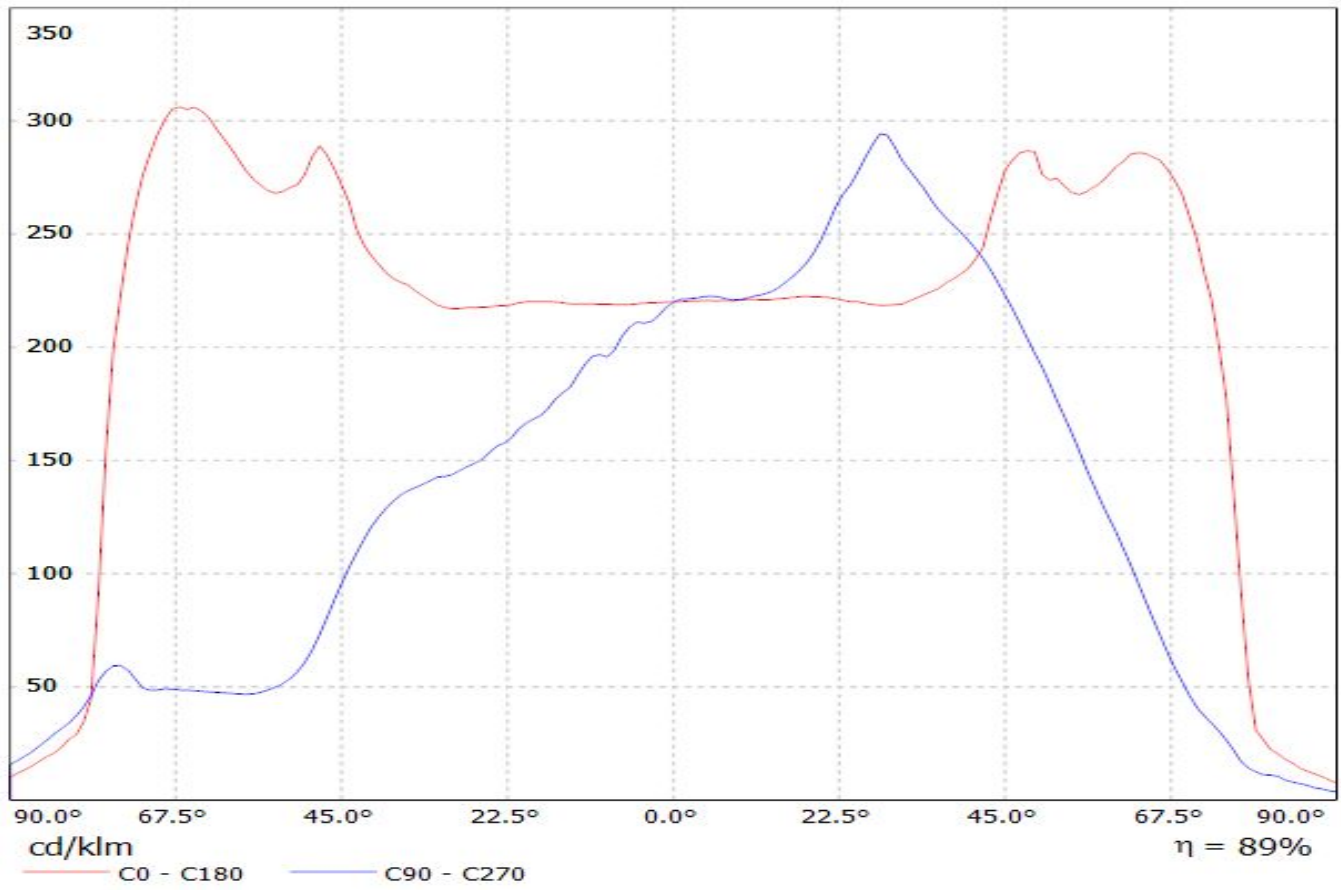


Luminaire: LEDiL Oy FN14976\_STELLA-DWC2\_(VERO18\_SE)  
Lamps: 1 x Bridgelux\_VERO18\_SE\_(BXRC-30E4000-C-73-SE)  
\_1335.46lm@250mA\_P=7.9961W\_I=0.25A



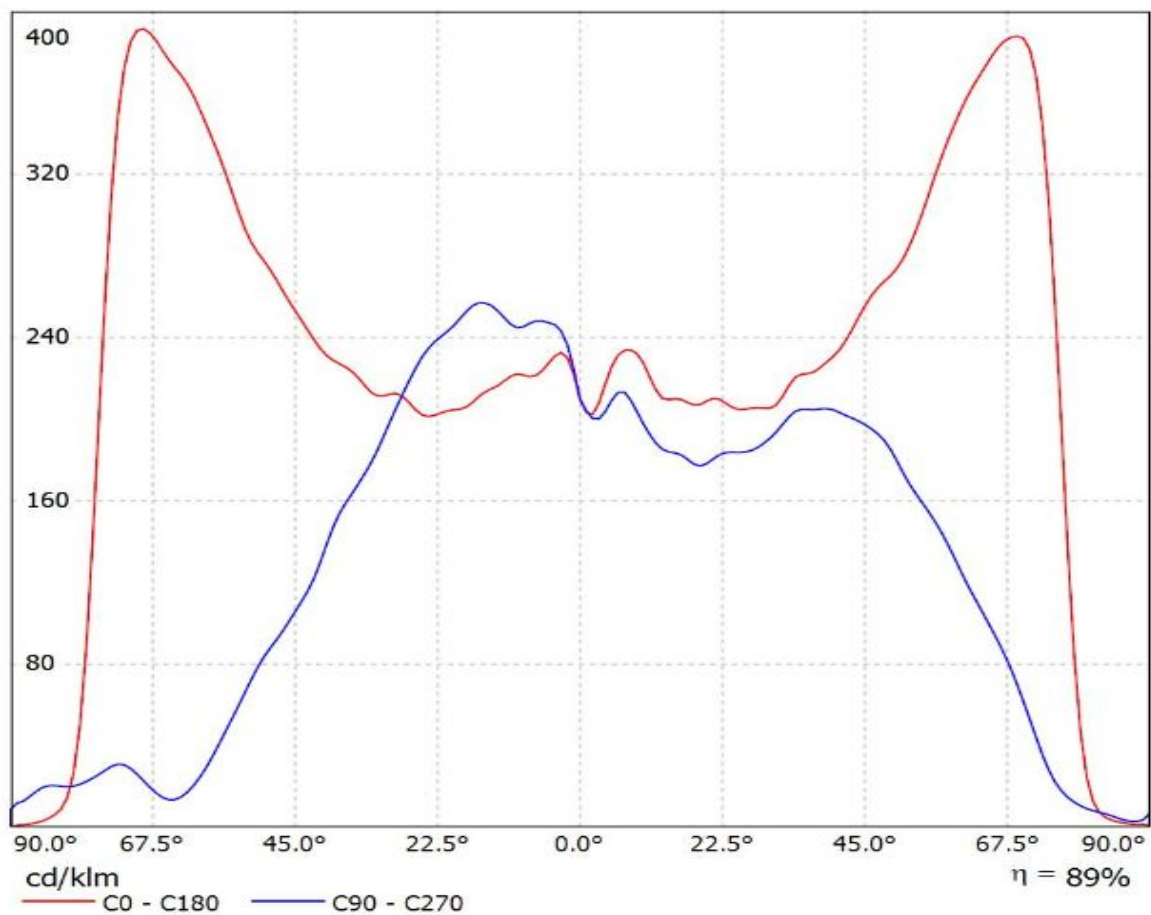
Luminaire: LEDiL Oy FN15189\_STELLA-DWC2\_(V18\_Gen7)

Lamps: 1 x Bridgelux\_V18\_GEN7\_(BXRE-30E4000-B)\_1413.09lm@250mA\_P=8.06229W\_I=0.25A

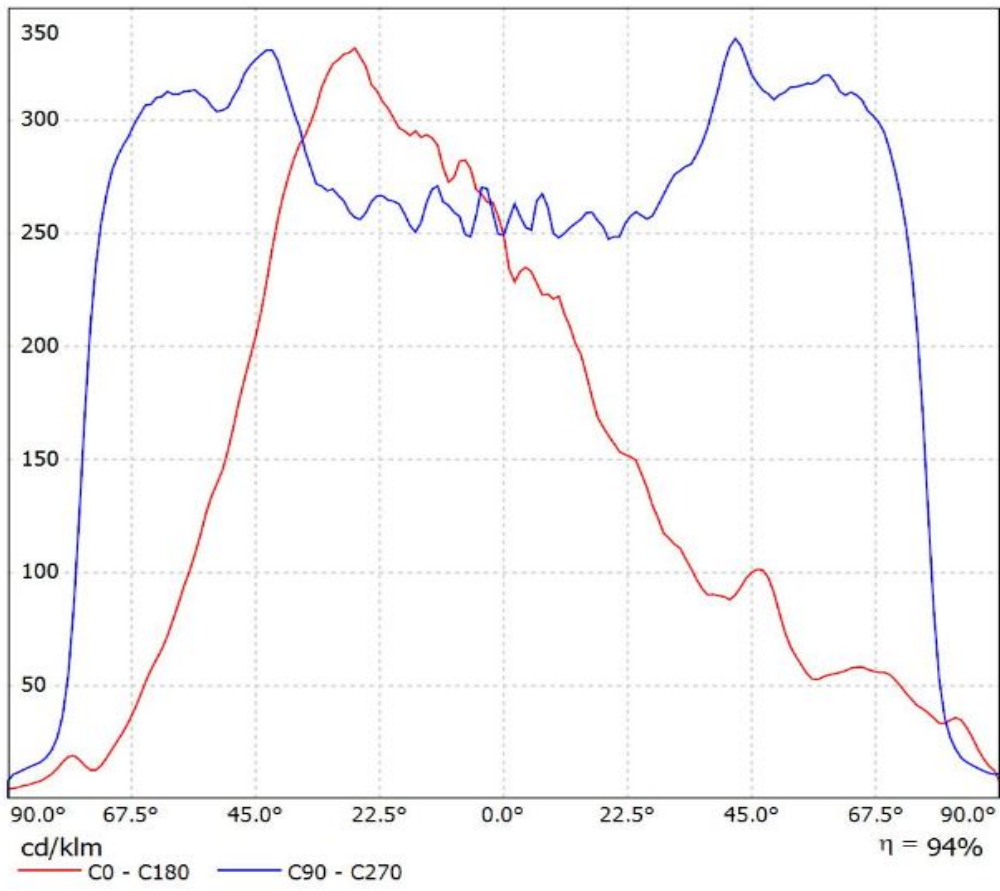




Luminaire: Ledil Oy FN14976\_STELLA-DWC2+\_Bender&Wirth - LED holder 434 Typ Z1\_BRIDGELUX\_V10\_Gen7\_SIMULATED  
Lamps: 1 x BRIDGELUX V10 Gen7

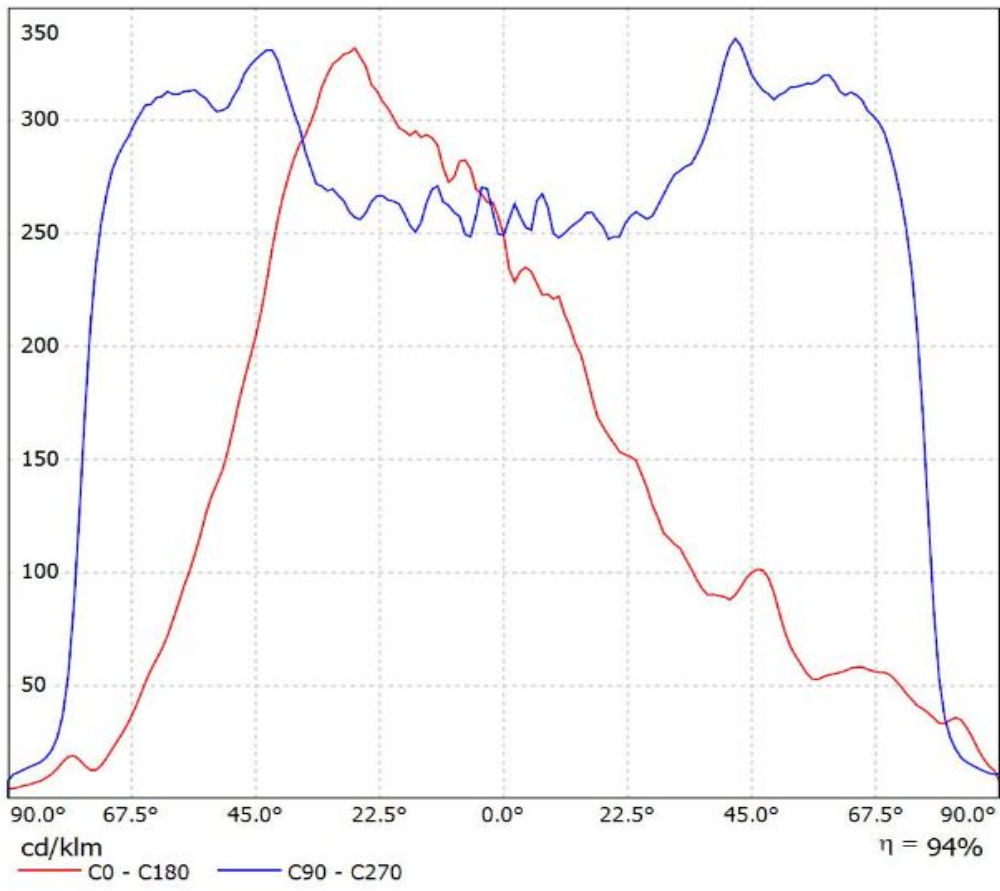


Luminaire: Ledil Oy FN14976\_STELLA-DWC2\_Bridgelux\_V22\_Gen7\_SIMULATED FN14976\_STELLA-DWC2\_Bridgelux\_V22\_Gen7\_SIMULATED  
Lamps: 1 x FN14976\_STELLA-DWC2\_Bridgelux\_V22\_Gen7\_SIMULATED

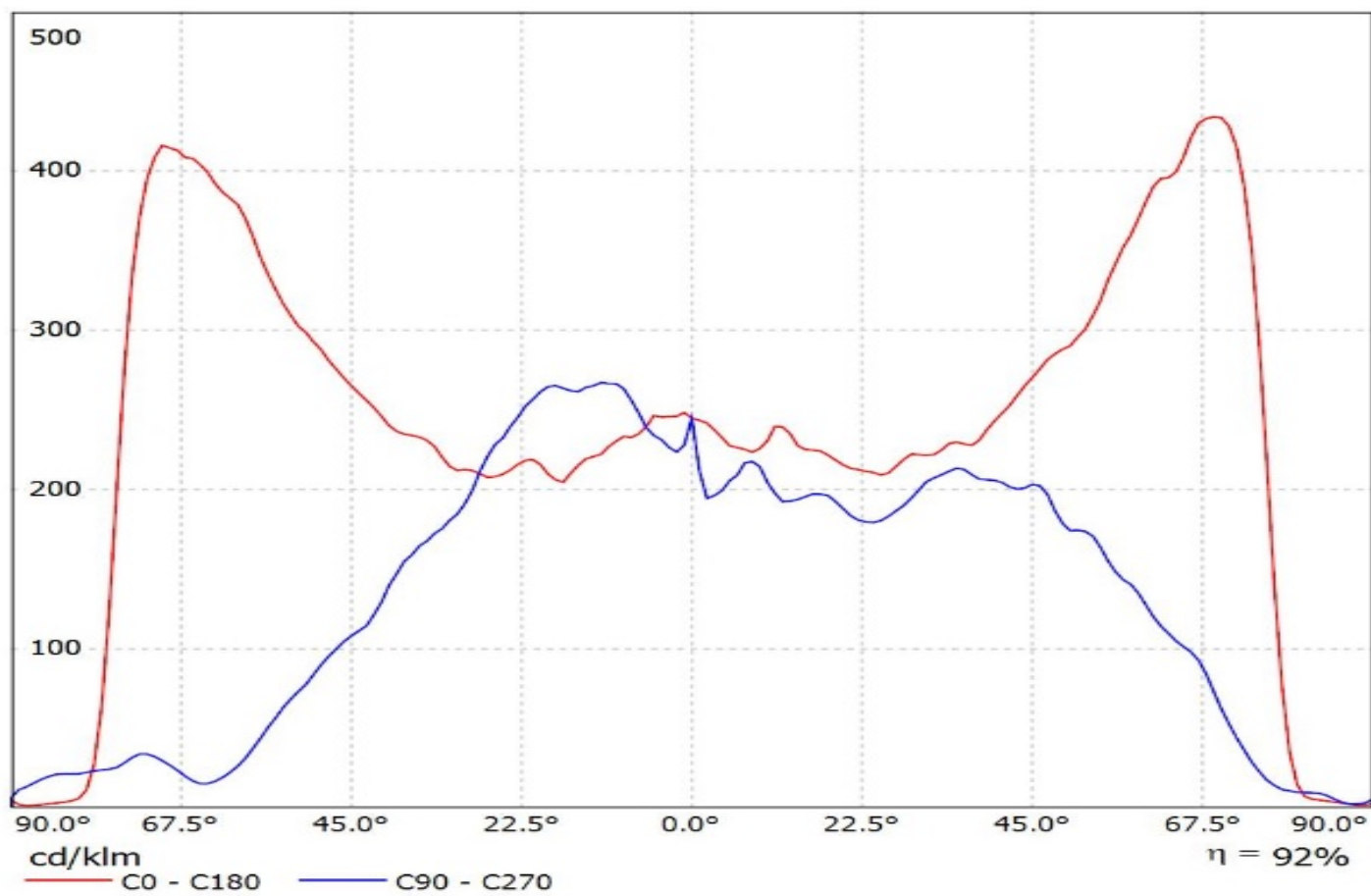




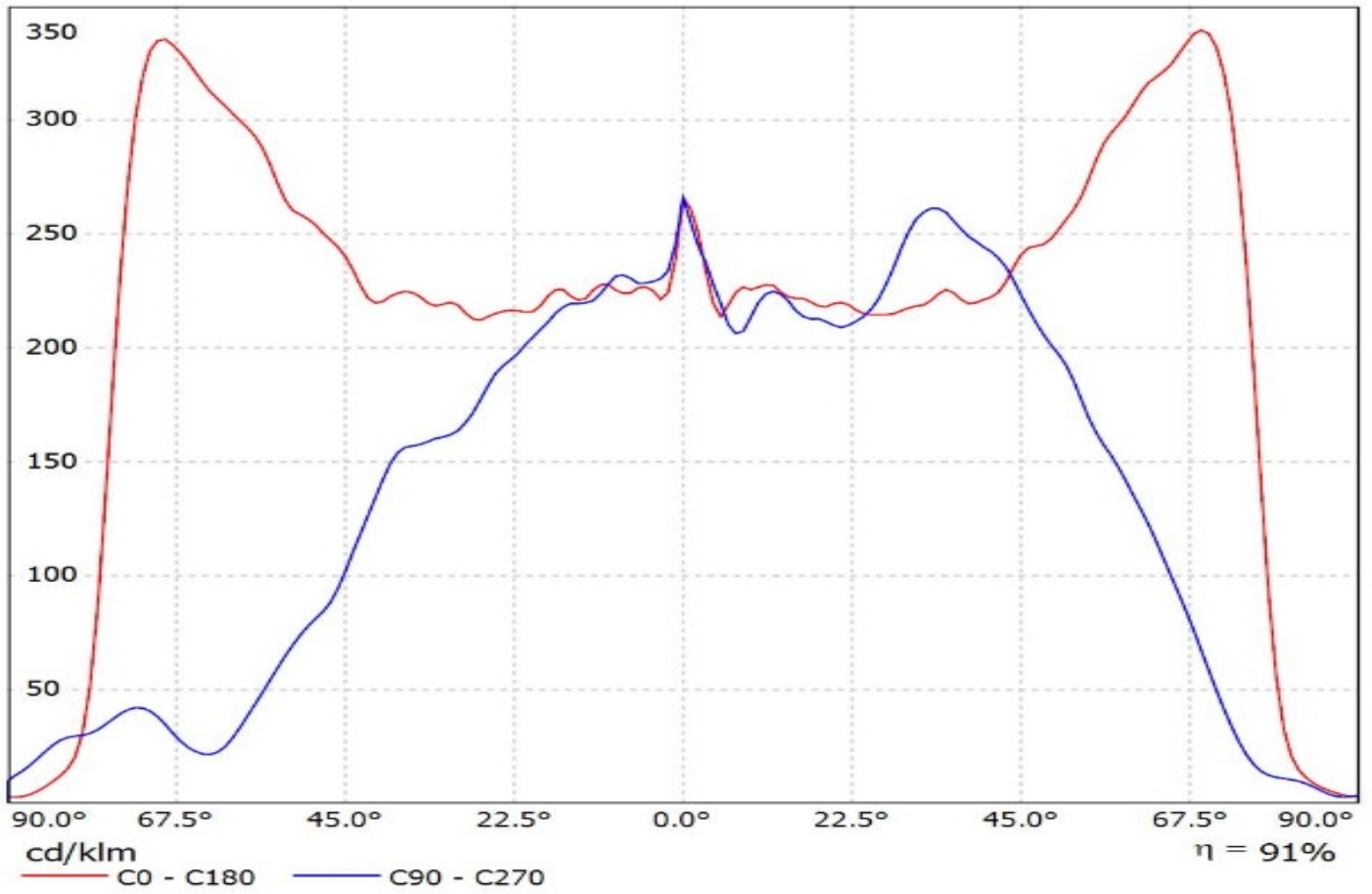
Luminaire: Ledil Oy FN14976\_STELLA-DWC2\_Bridgelux\_V22\_Gen7\_SIMULATED FN14976\_STELLA-DWC2\_Bridgelux\_V22\_Gen7\_SIMULATED  
Lamps: 1 x FN14976\_STELLA-DWC2\_Bridgelux\_V22\_Gen7\_SIMULATED



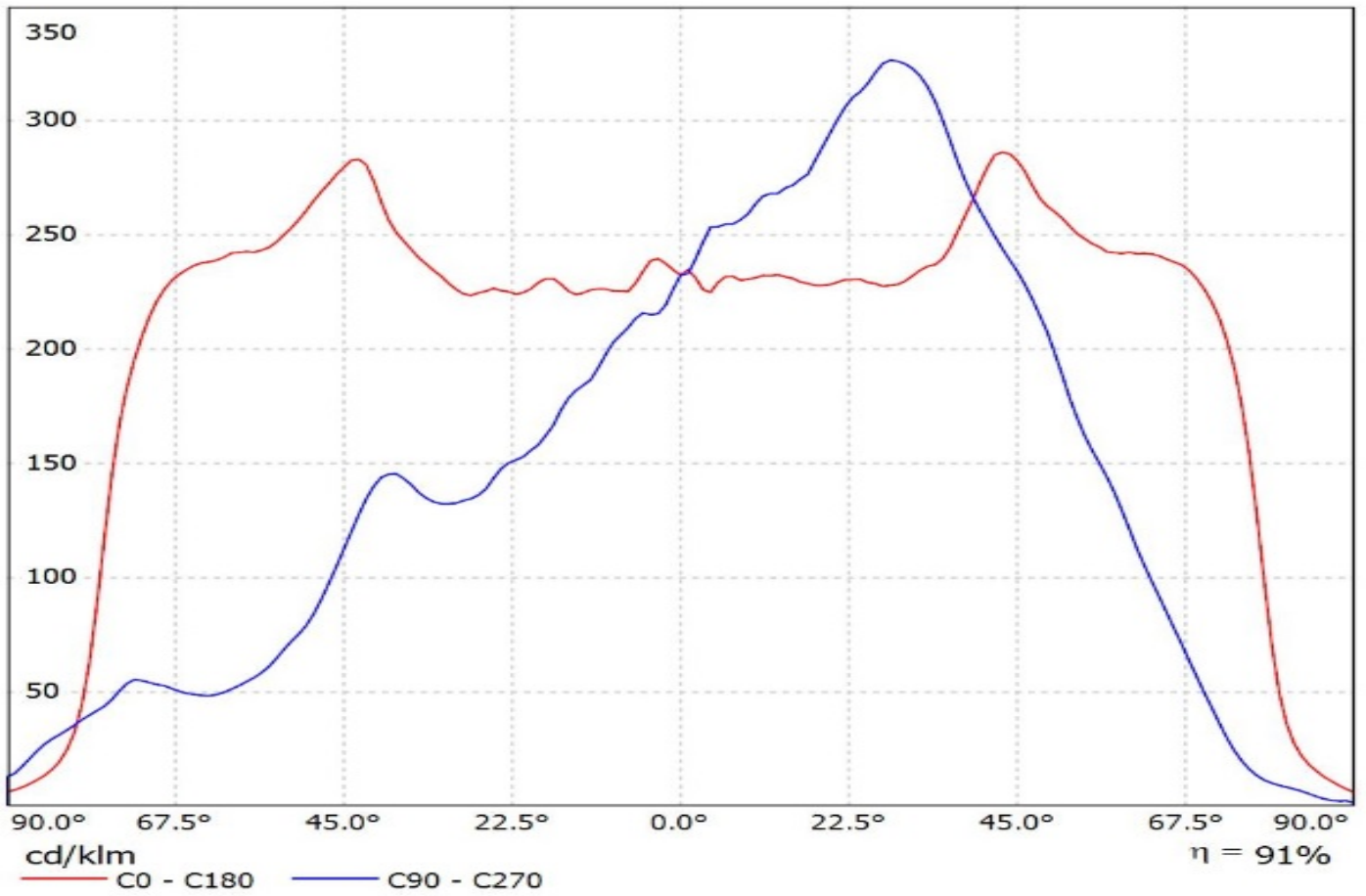
Luminaire: Ledil Oy FN14976\_STELLA-DWC2\_(CLU028)\_SIMULATED  
Lamps: 1 x Citizen CLU028-1204C4-303M2K1



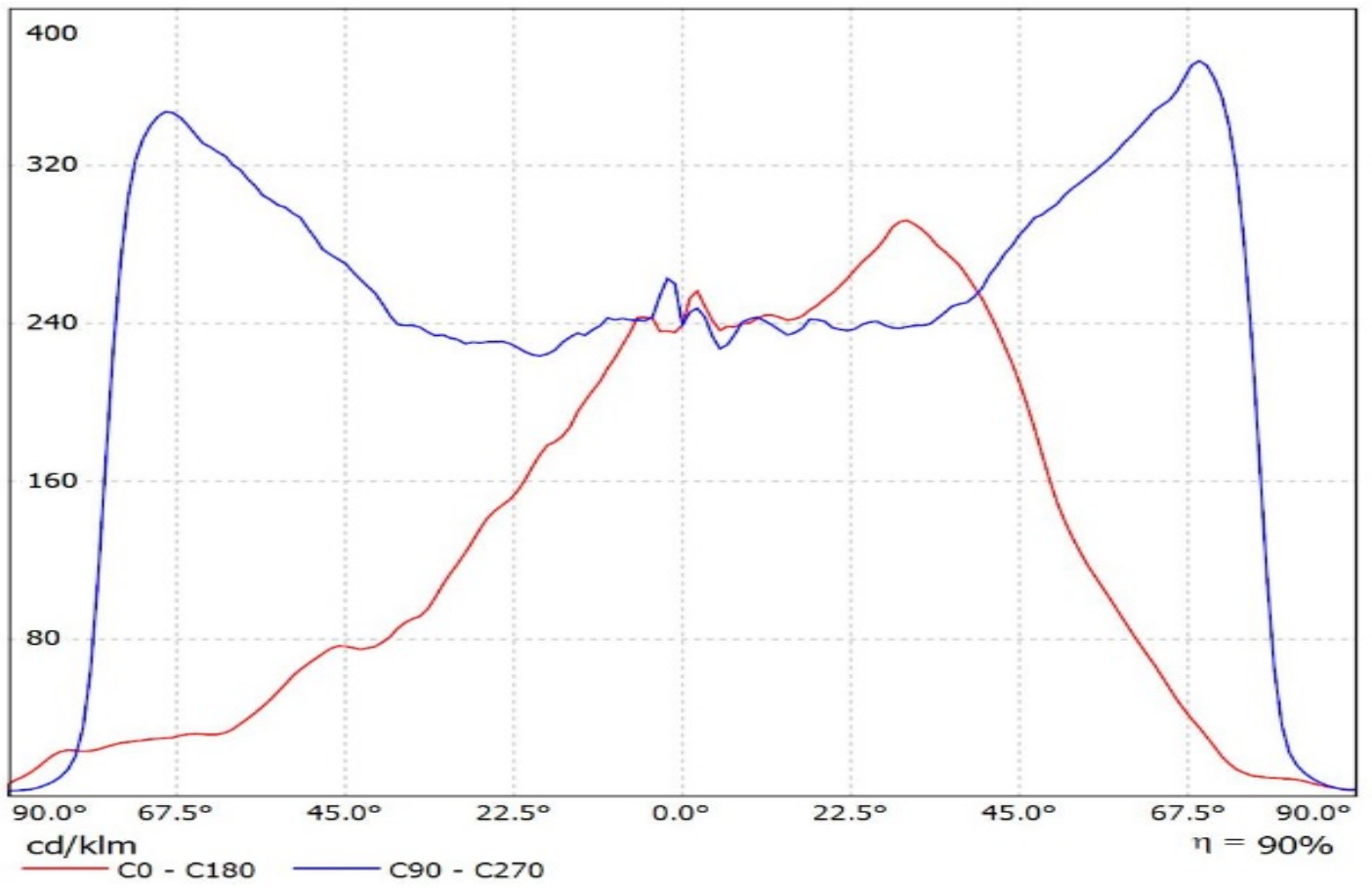
Luminaire: Ledil Oy FN14976\_STELLA-DWC2\_(CLU038)\_SIMULATED  
Lamps: 1 x Citizen CLU038-1210C4-303M2K1



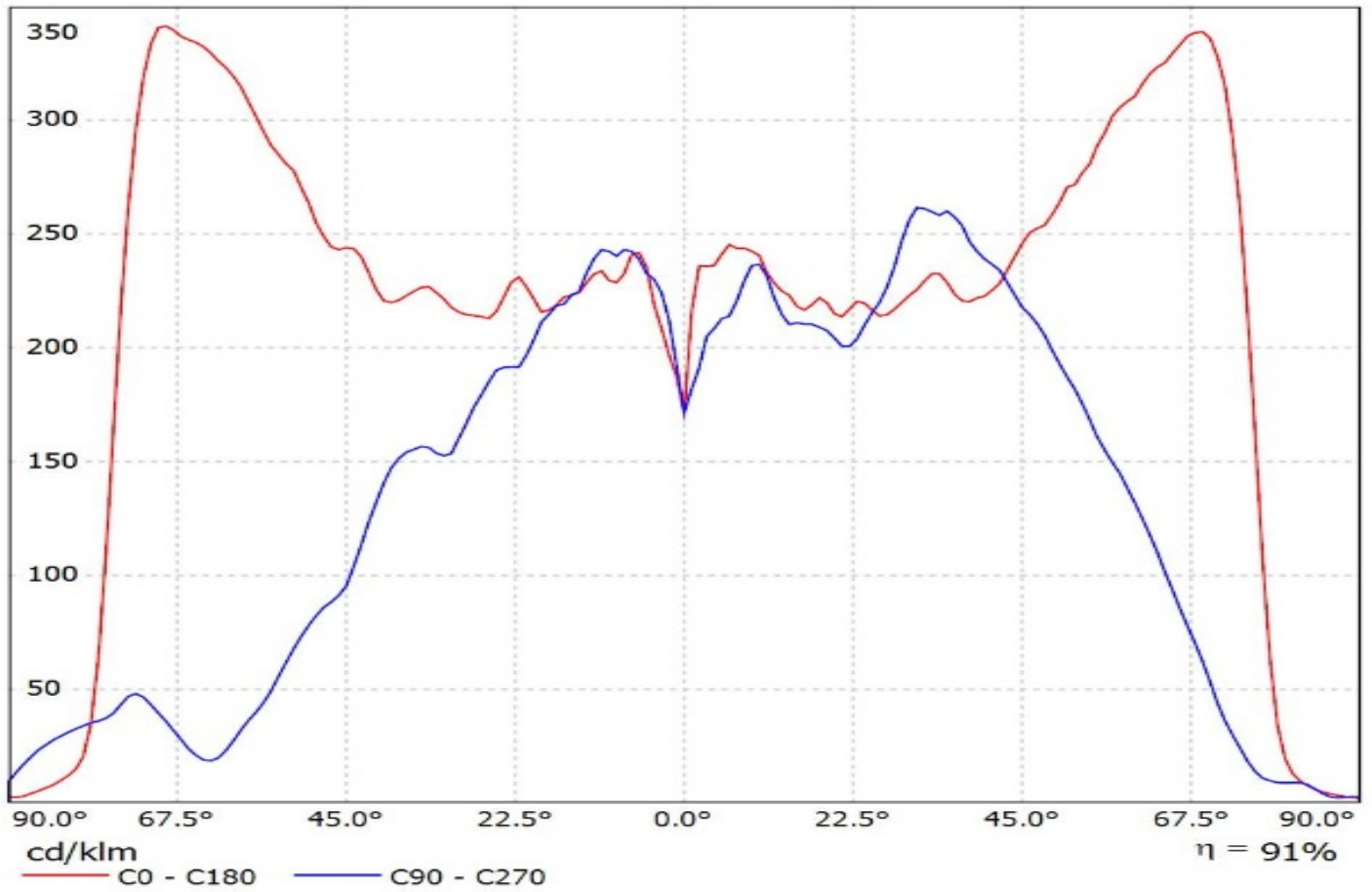
Luminaire: Ledil Oy FN14976\_STELLA-DWC2\_(CLU048)\_(B&W\_431\_Type\_Z1)\_SIMULATED  
Lamps: 1 x Citizen CLU048 + Bender & Wirth 431 Type Z1



Luminaire: Ledil Oy FN14976\_STELLA-DWC2-CXA2590\_SIMULATED  
Lamps: 1 x Cree CXA2590

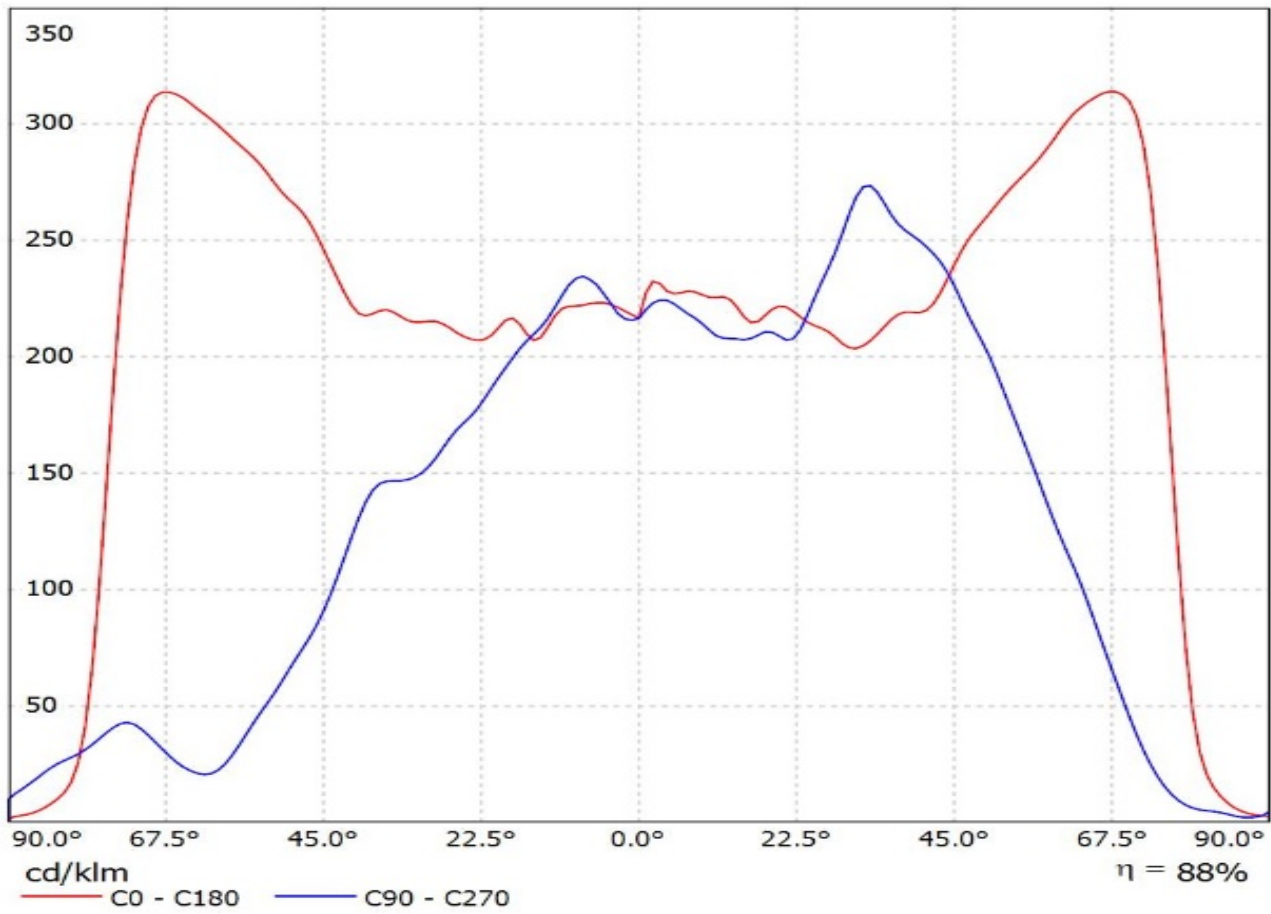


Luminaire: Ledil Oy FN14976\_STELLA-DWC2\_(CXB1830)\_SIMULATED  
Lamps: 1 x Cree CXB1830

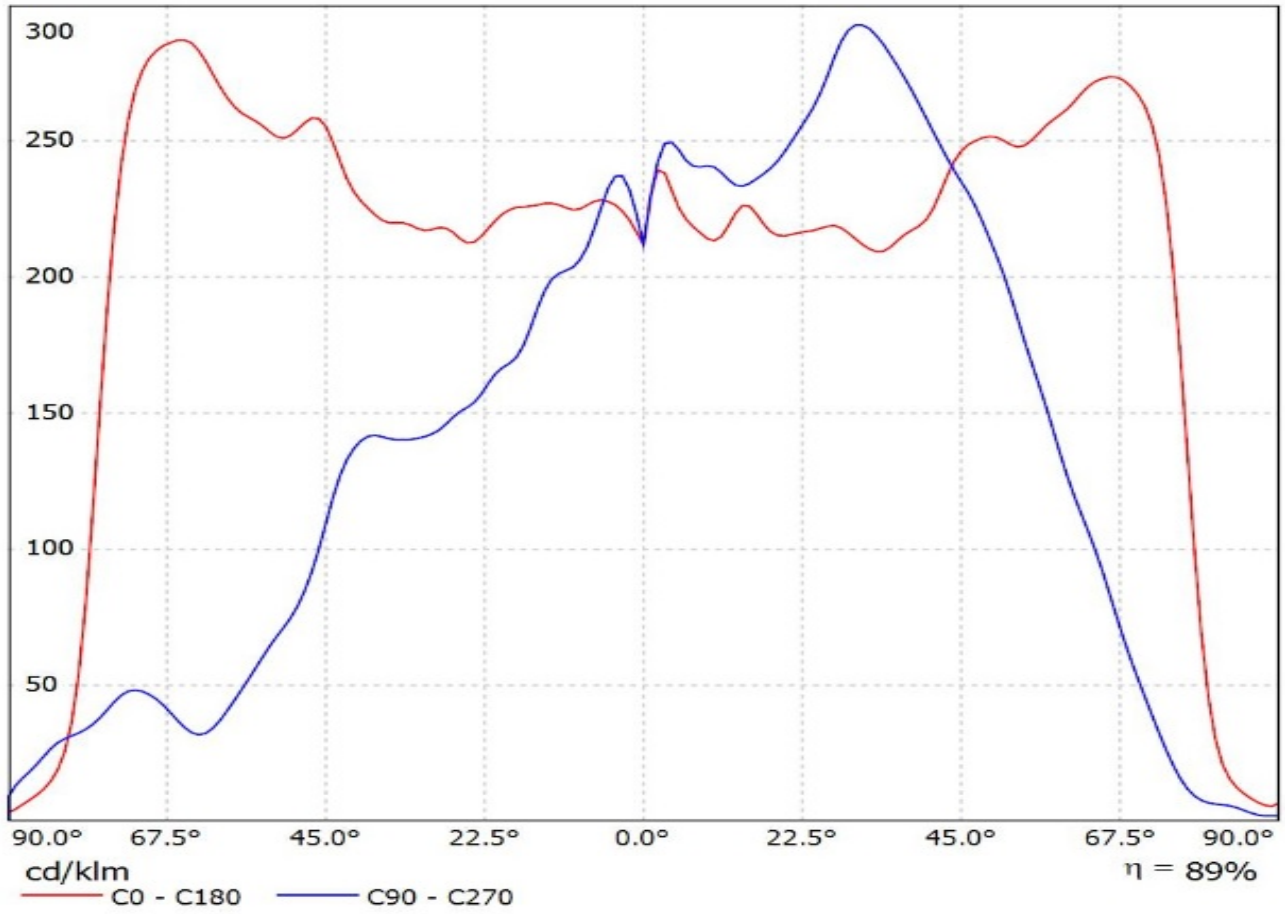




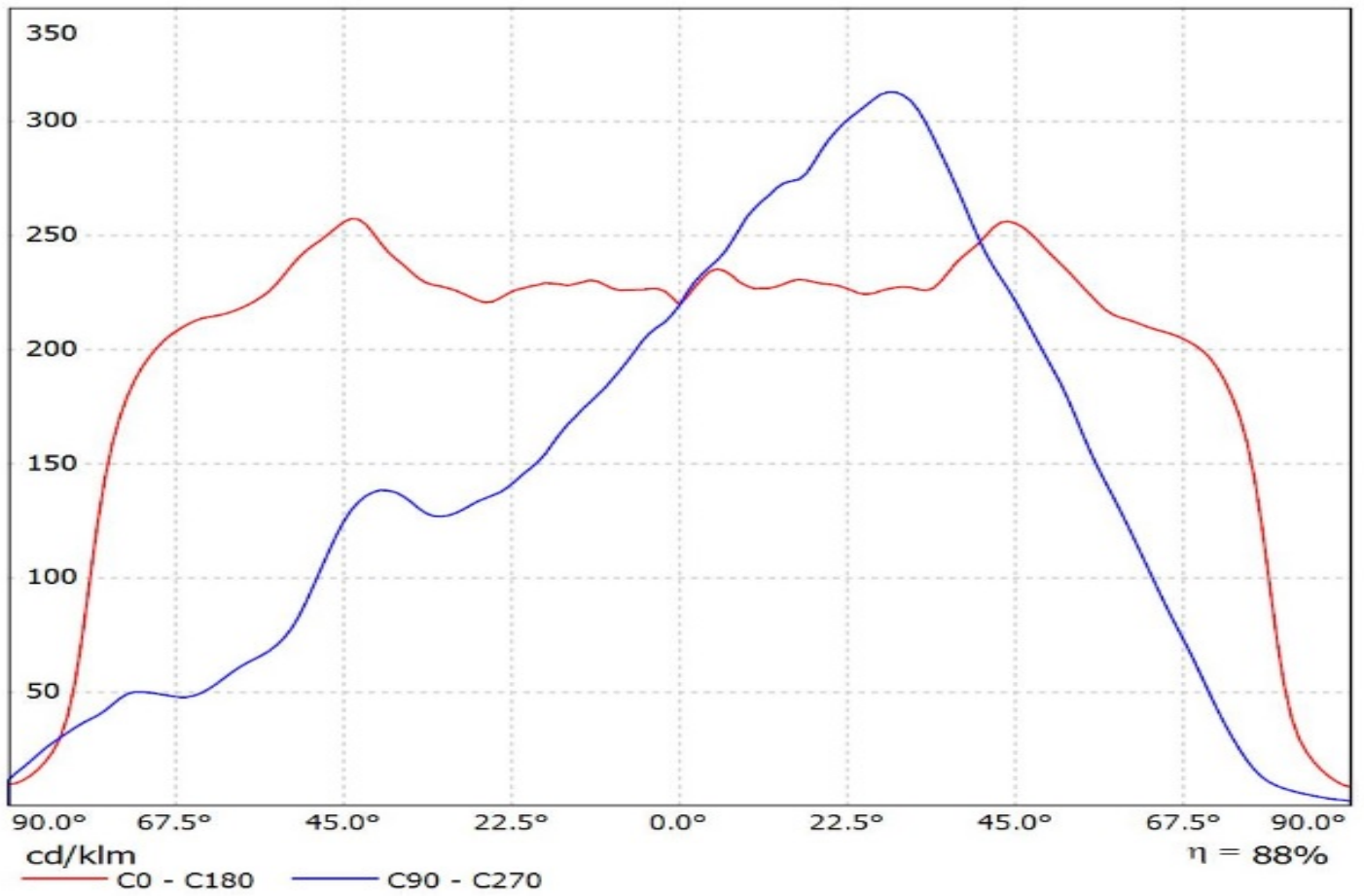
Luminaire: Ledil Oy FN14976\_STELLA-DWC2\_(Luxeon\_CoB\_1208)\_(Bender\_&\_Wirth\_431\_Type\_Z1)\_SIMULATED  
Lamps: 1 x Lumileds Luxeon CoB 1208 + Bender & Wirth 431 Type Z1



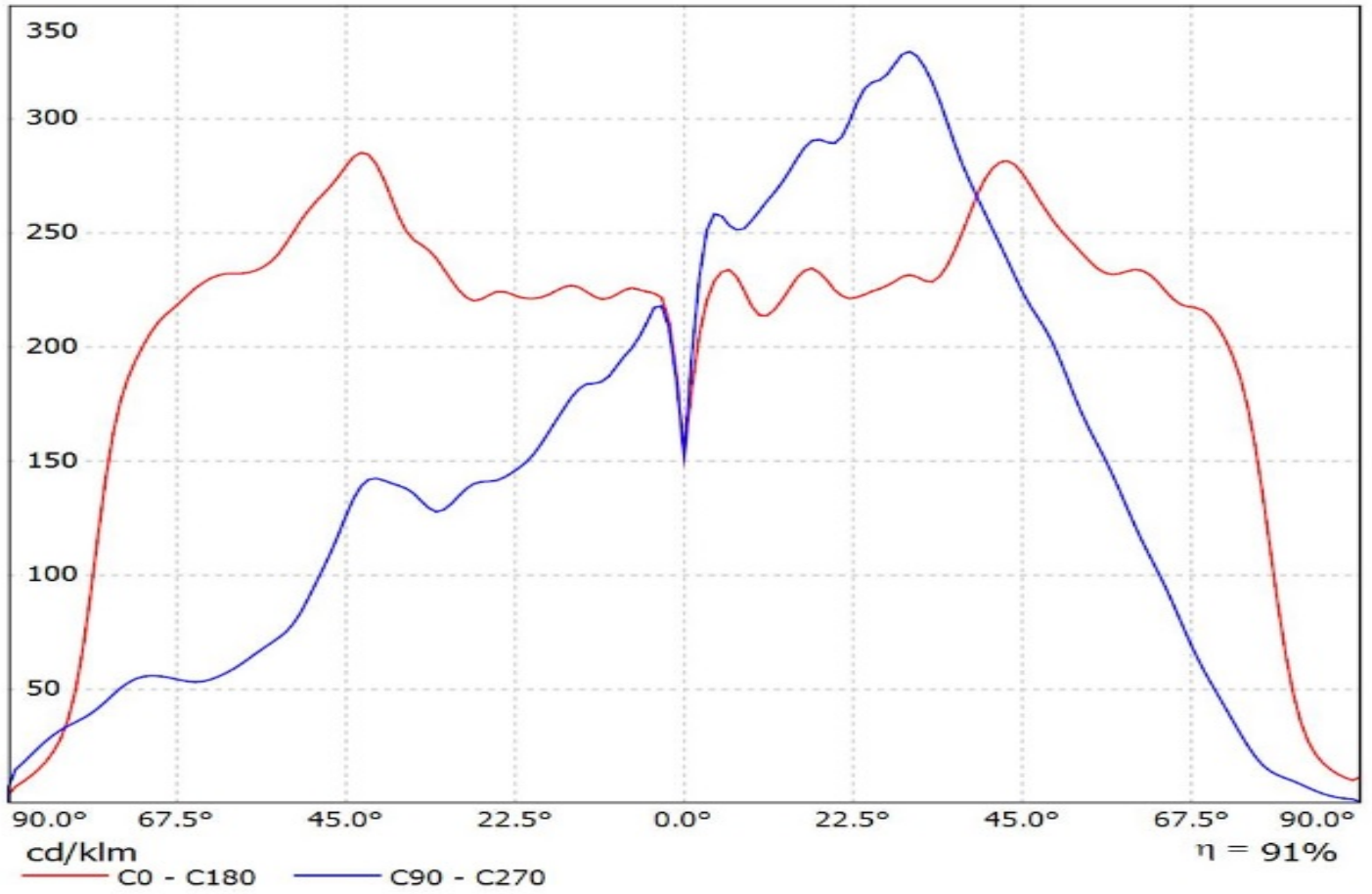
Luminaire: Ledil Oy FN14976\_STELLA-DWC2\_(Luxeon\_CoB\_1211)\_(Bender\_&\_Wirth\_431\_Type\_Z1)\_SIMULATED  
Lamps: 1 x Lumileds Luxeon CoB 1211 + Bender & Wirth 431 Type Z1



Luminaire: Ledil Oy FN14976\_STELLA-DWC2\_(Luxeon\_CoB\_1216)\_(431\_Typ\_Z1)\_SIMULATED  
Lamps: 1 x Lumileds Luxeon CoB 1216 + Bender & Wirth 431 Typ Z1

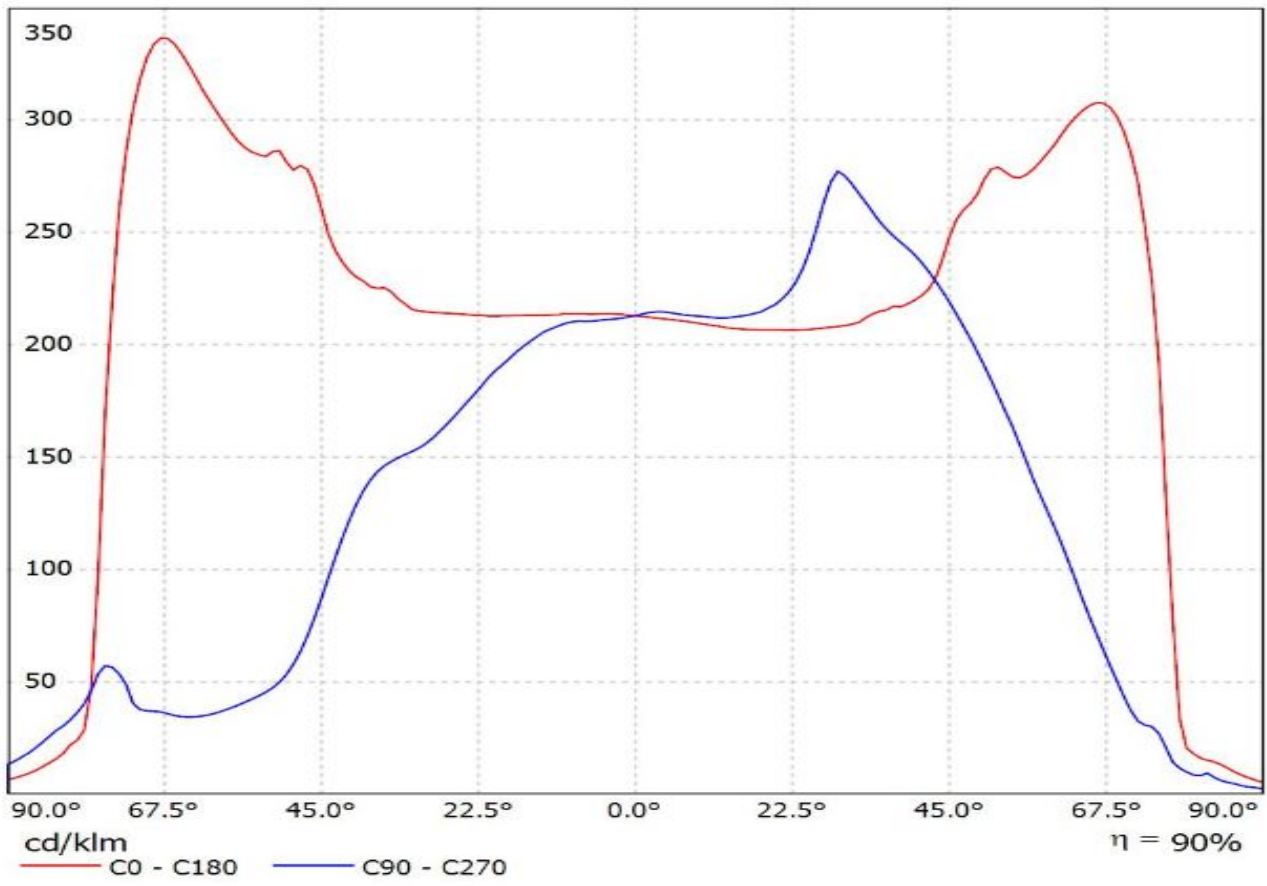


Luminaire: Ledil Oy FN14976\_STELLA-DWC2\_(CXM-22)\_(B&W\_431\_Type\_Z1)\_SIMULATED  
Lamps: 1 x Luminus CXM-22 + Bender & Wirth 431 Type Z1



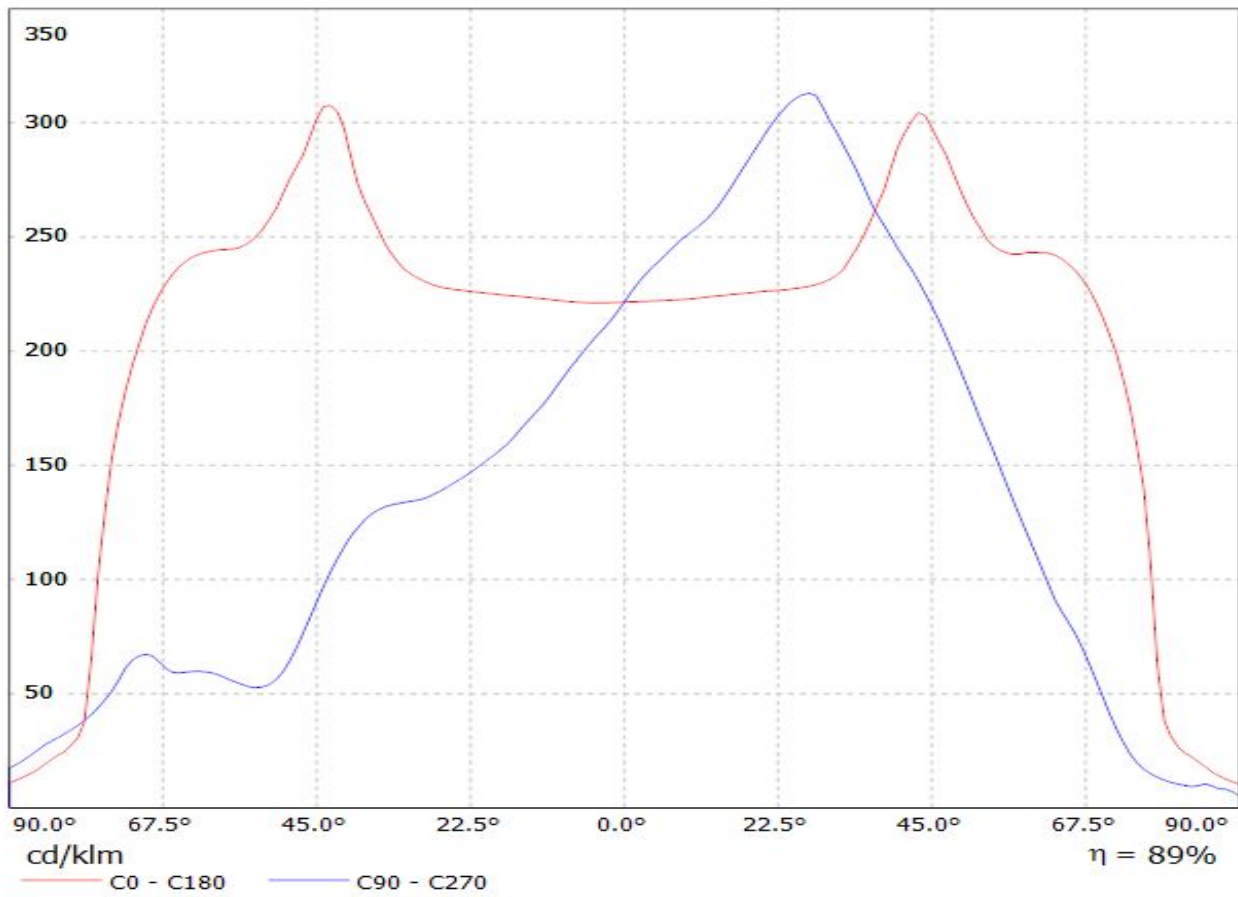
Luminaire: Ledil FN14976\_STELLA-DWC2\_(Soleriq\_S19)

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



Luminaire: Ledil FN14976\_STELLA-DWC2\_(MJT\_80W\_Les22)\_+431TypZ1

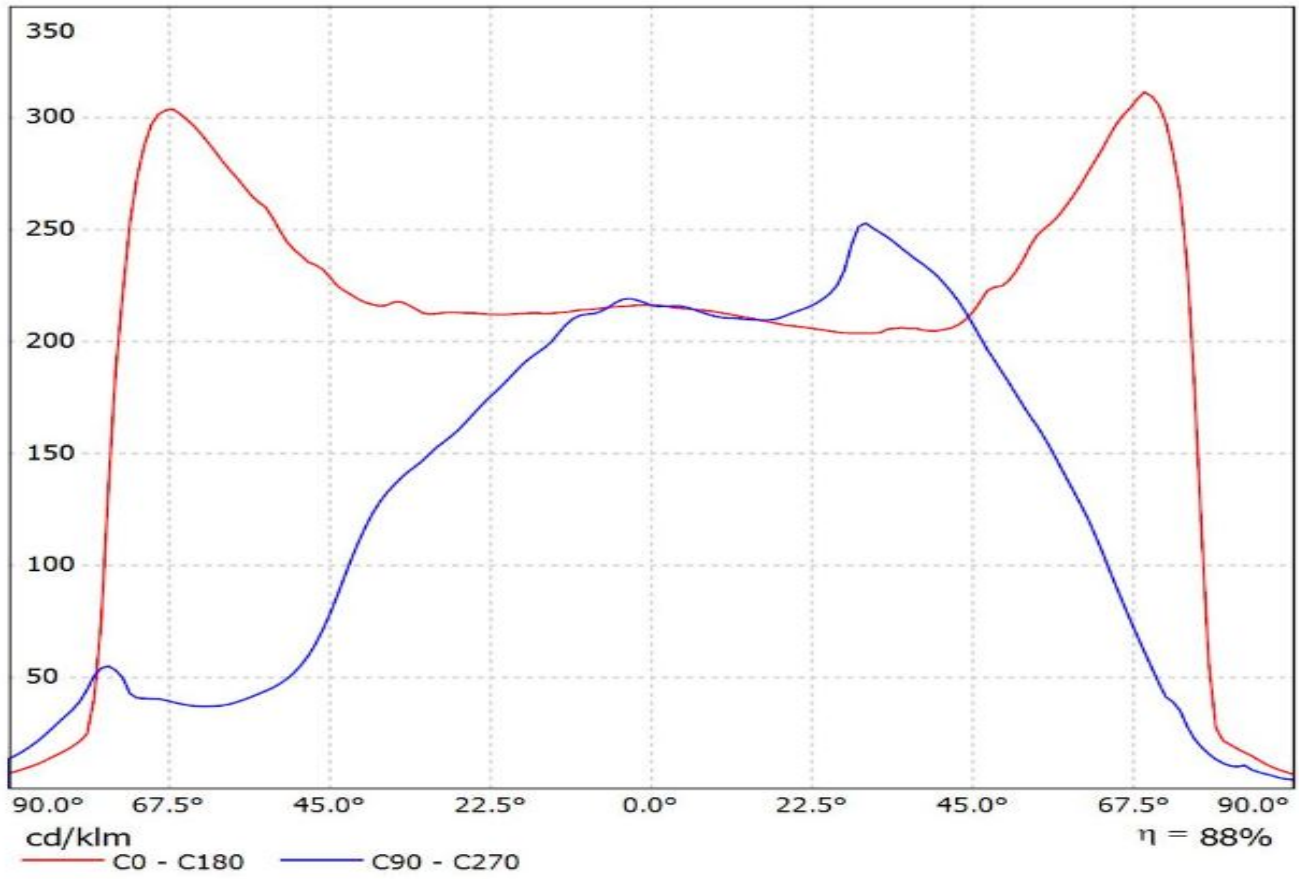
Lamps: 1 x Seoul\_MJT\_80W\_Les22mm\_(SAWx22AAA)\_+431TypZ1\_2501.46lm@250mA\_P=13.317W\_I=0.25A



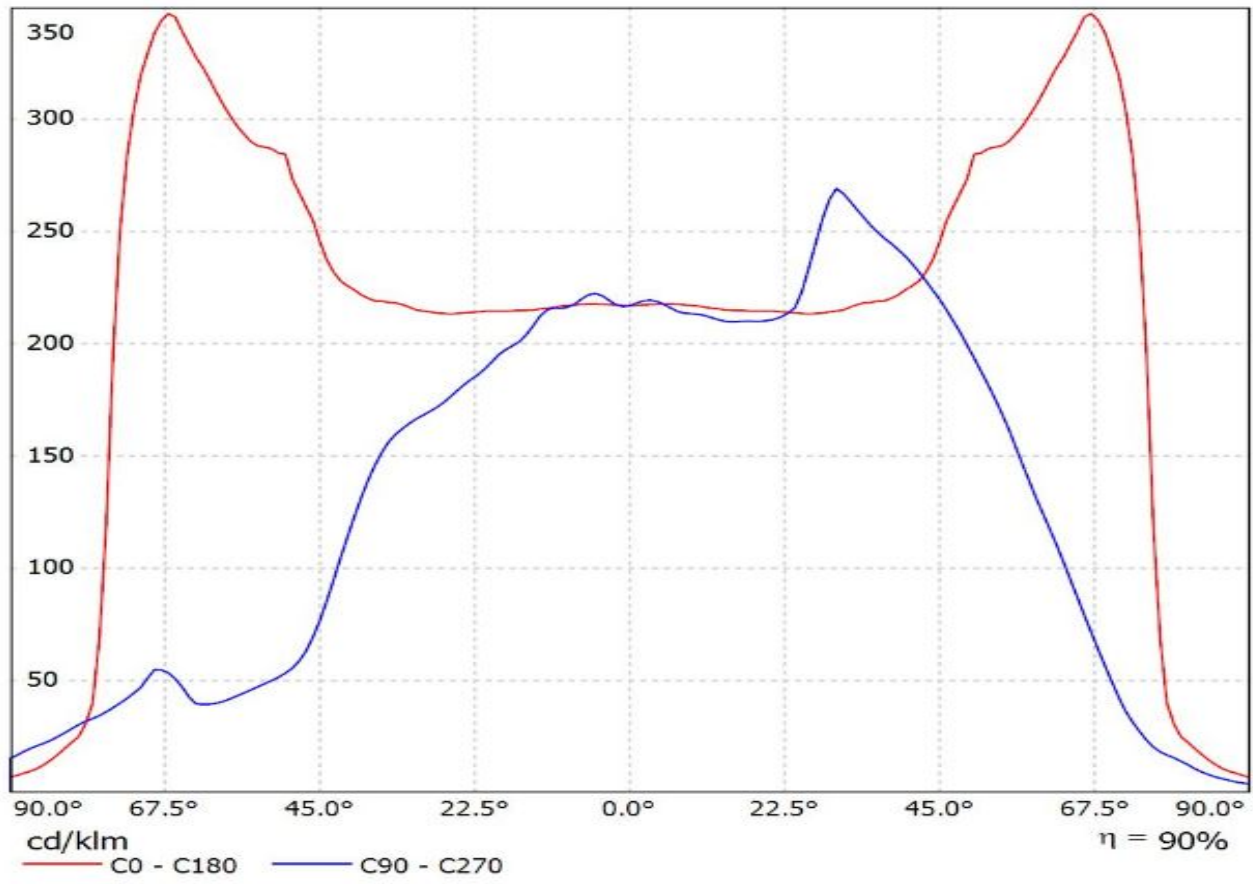


Luminaire: Ledil FN14976\_STELLA-DWC2\_(MJT\_30W\_Les14,5)

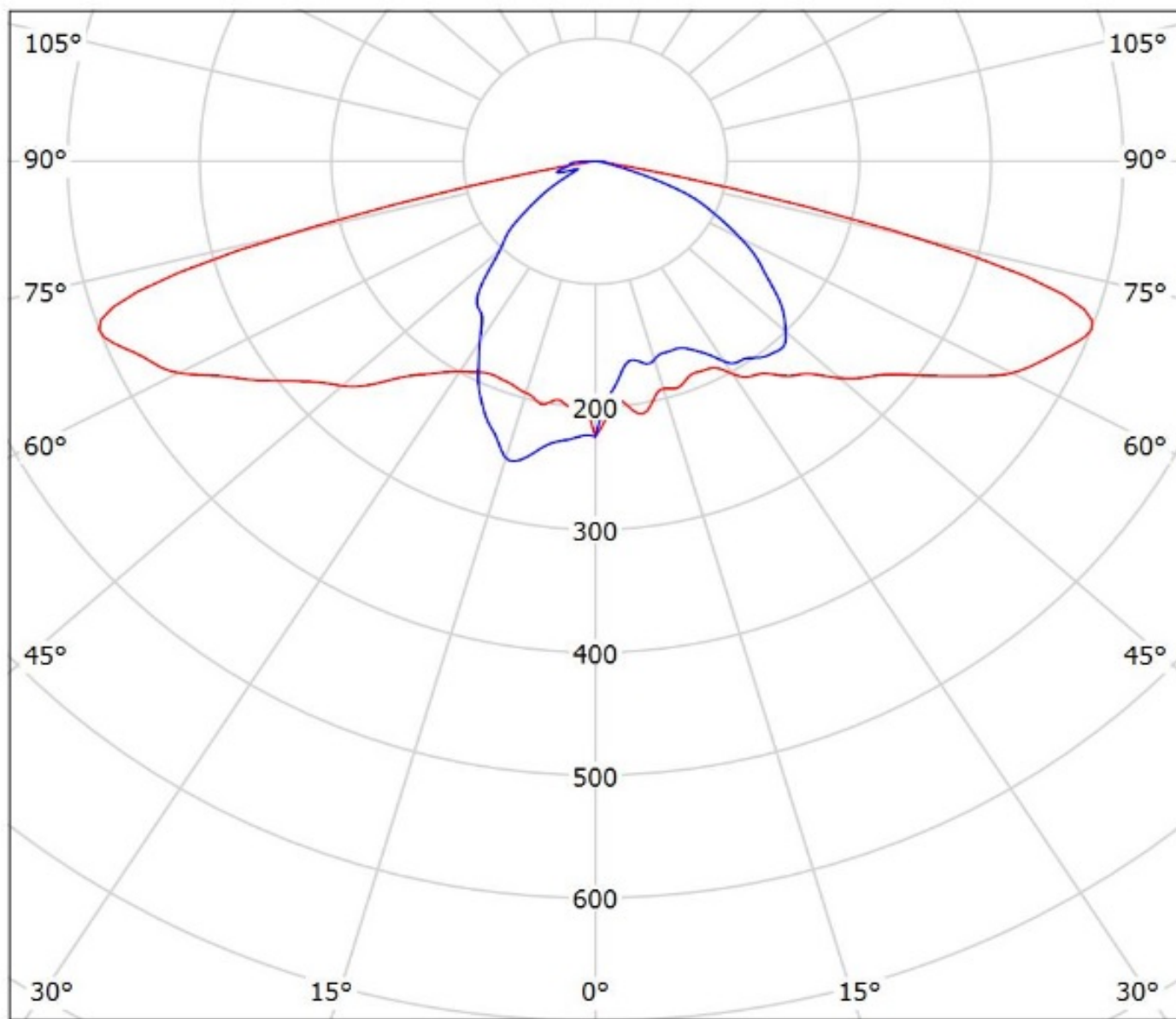
Lamps: 1 x Seoul\_MJT\_30W\_Les14,5mm\_(SAWx1566A)\_1353.32lm@250mA\_P=8.20525W\_I=0.25A



Luminaire: Ledil FN14976\_STELLA-DWC2\_(MJT\_30W\_Les14,5)\_+433\_Typ\_Z1  
Lamps: 1 x Seoul\_MJT\_30W\_Les14,5mm\_(SAWx1566A)\_433\_Typ\_Z1\_1343.97lm@250mA\_P=8.2295W\_I=0.25A



Luminaire: Ledil Oy FN14976\_STELLA-DWC2\_(VERO10)\_SIMLATED  
Lamps: 1 x Bridgelux VERO10 (BXRC\_30E1000)

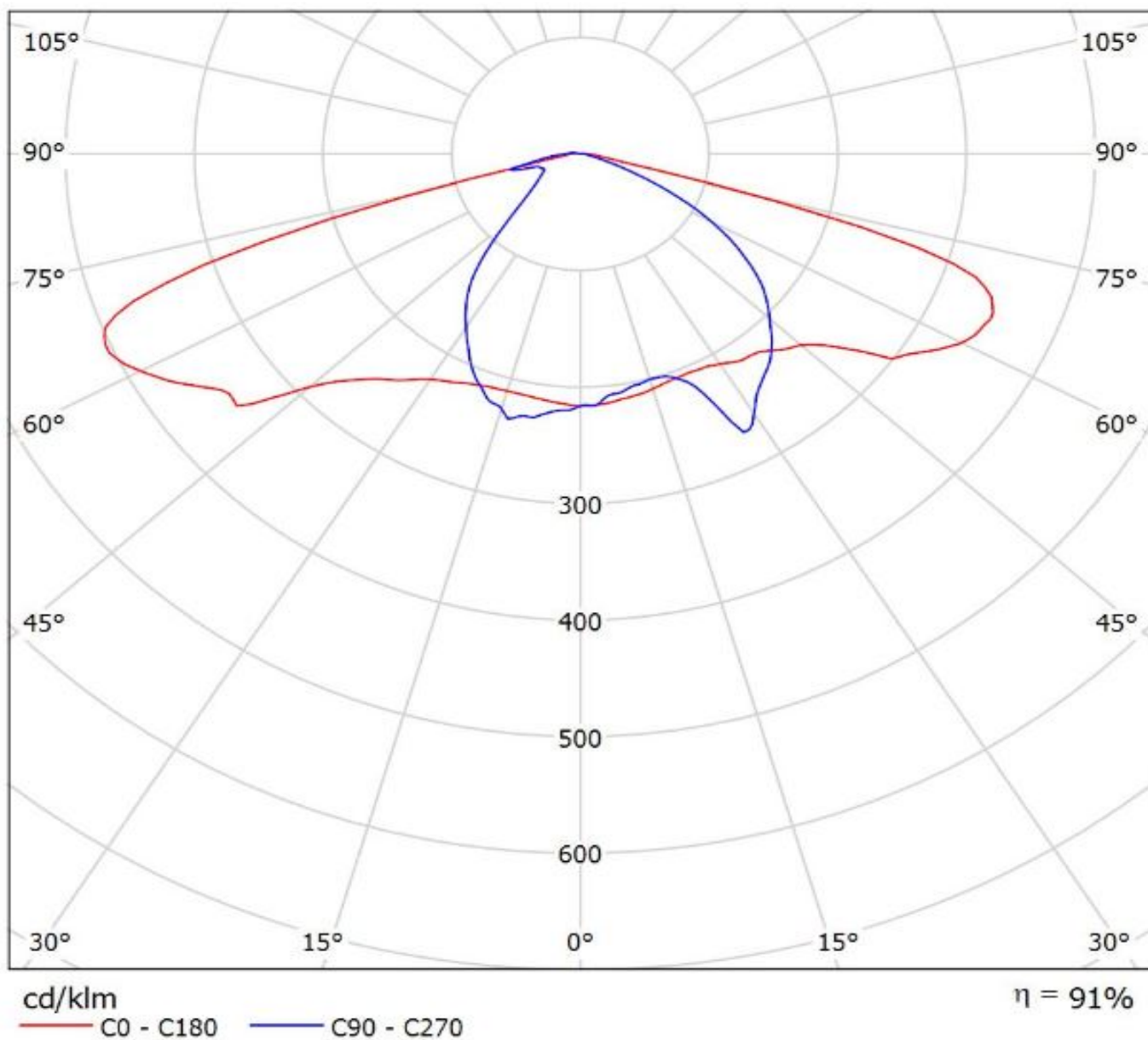


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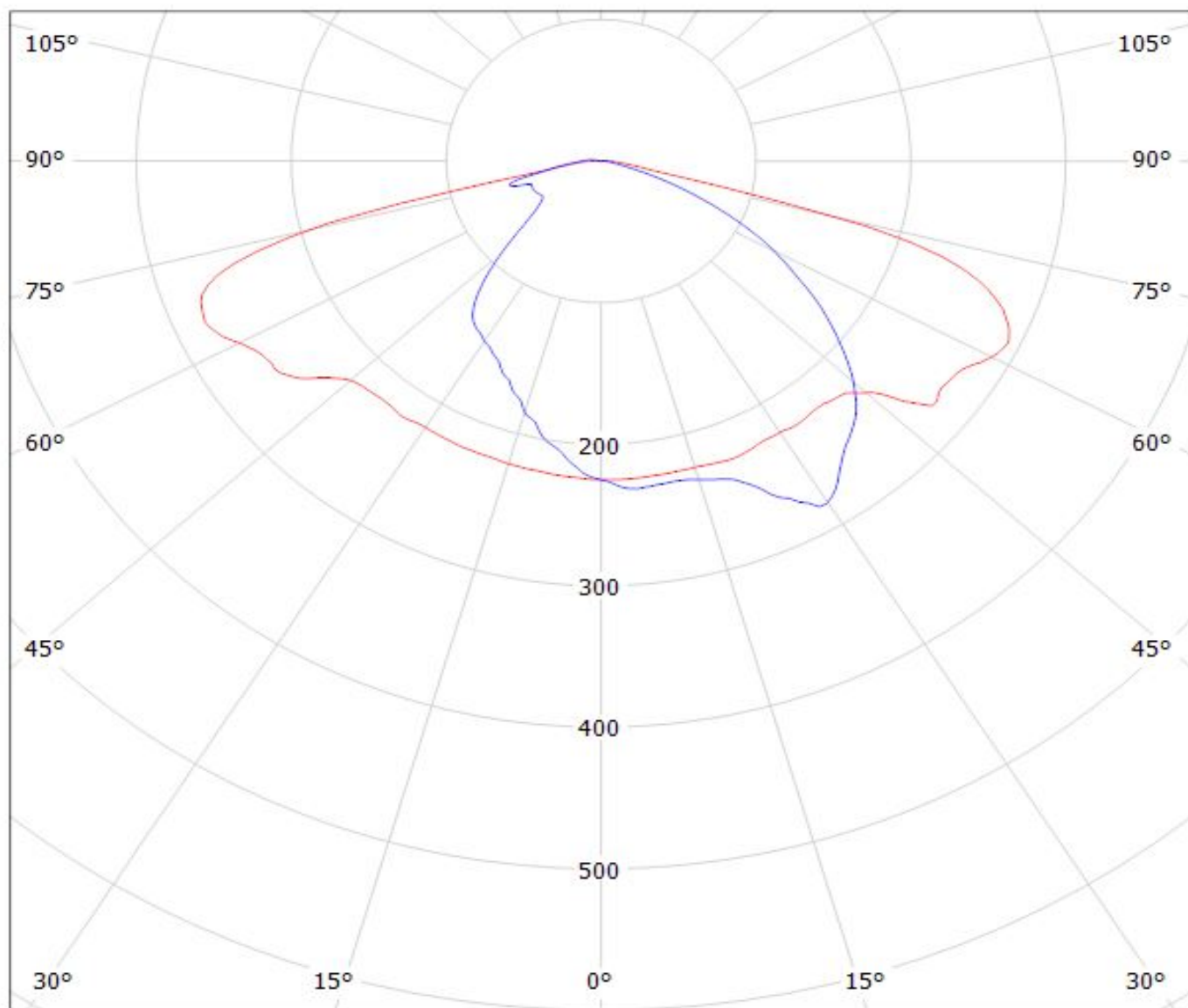
— C0 - C180 — C90 - C270

$\eta = 89\%$

Luminaire: Ledil FN14976\_STELLA-DWC2\_(Vero\_13\_SE)  
Lamps: 1 x Bridgelux\_Vero\_13\_SE\_(BXRC-30E2000-C-73-SE)  
\_1310.97lm@250mA\_CCT=3000K\_P=8.17575W\_I=0.25A



Luminaire: LEDiL Oy FN14976\_STELLA-DWC2\_(VERO18\_SE)  
Lamps: 1 x Bridgelux\_VERO18\_SE\_(BXRC-30E4000-C-73-SE)  
\_1335.46lm@250mA\_P=7.9961W\_I=0.25A



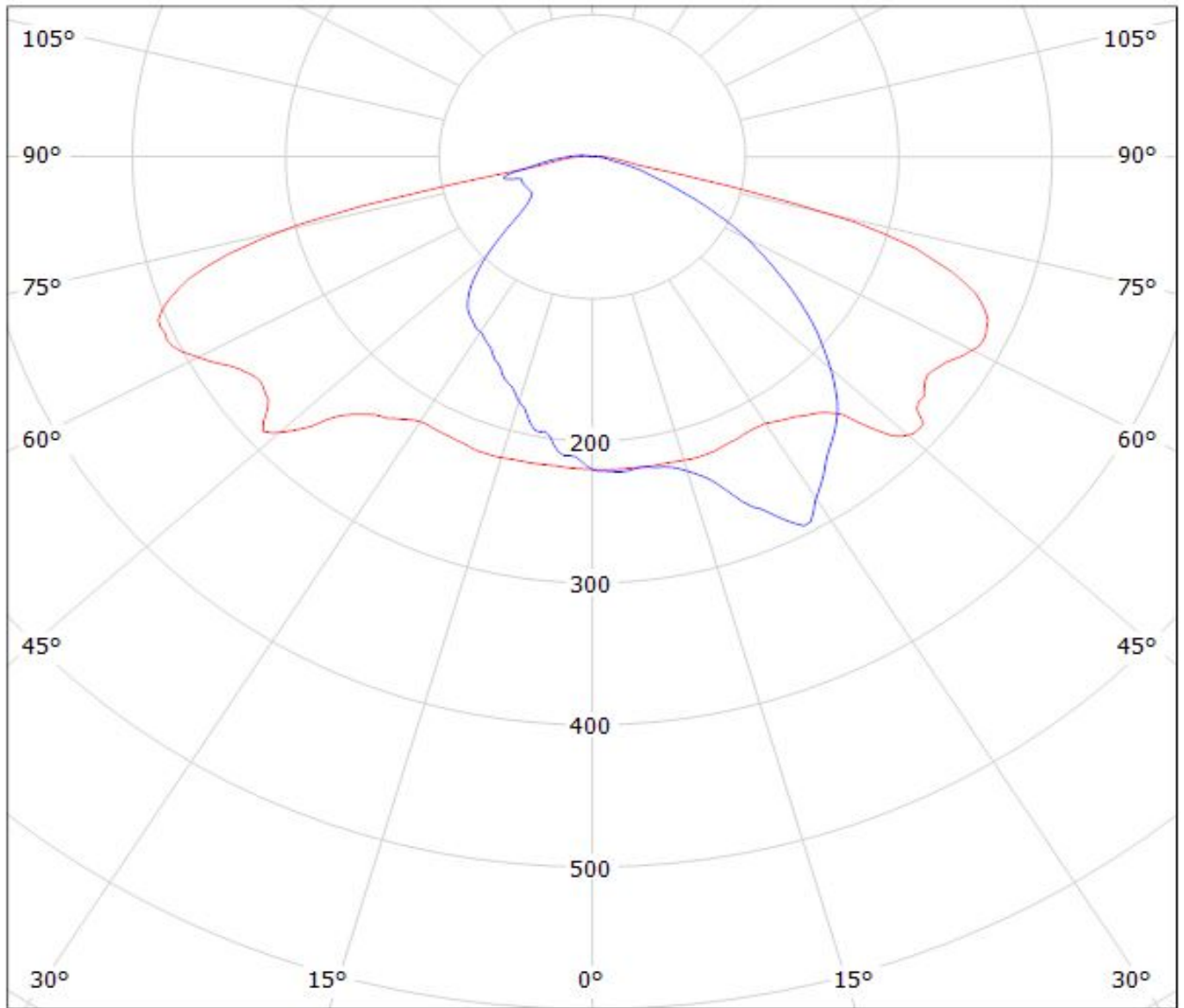
cd/klm

$\eta = 91\%$

— C0 - C180    — C90 - C270

Luminaire: LEDiL Oy FN15189\_STELLA-DWC2 (V18\_Gen7)

Lamps: 1 x Bridgelux\_V18\_GEN7 (BXRE-30E4000-B)\_1413.09lm@250mA\_P=8.06229W\_I=0.25A



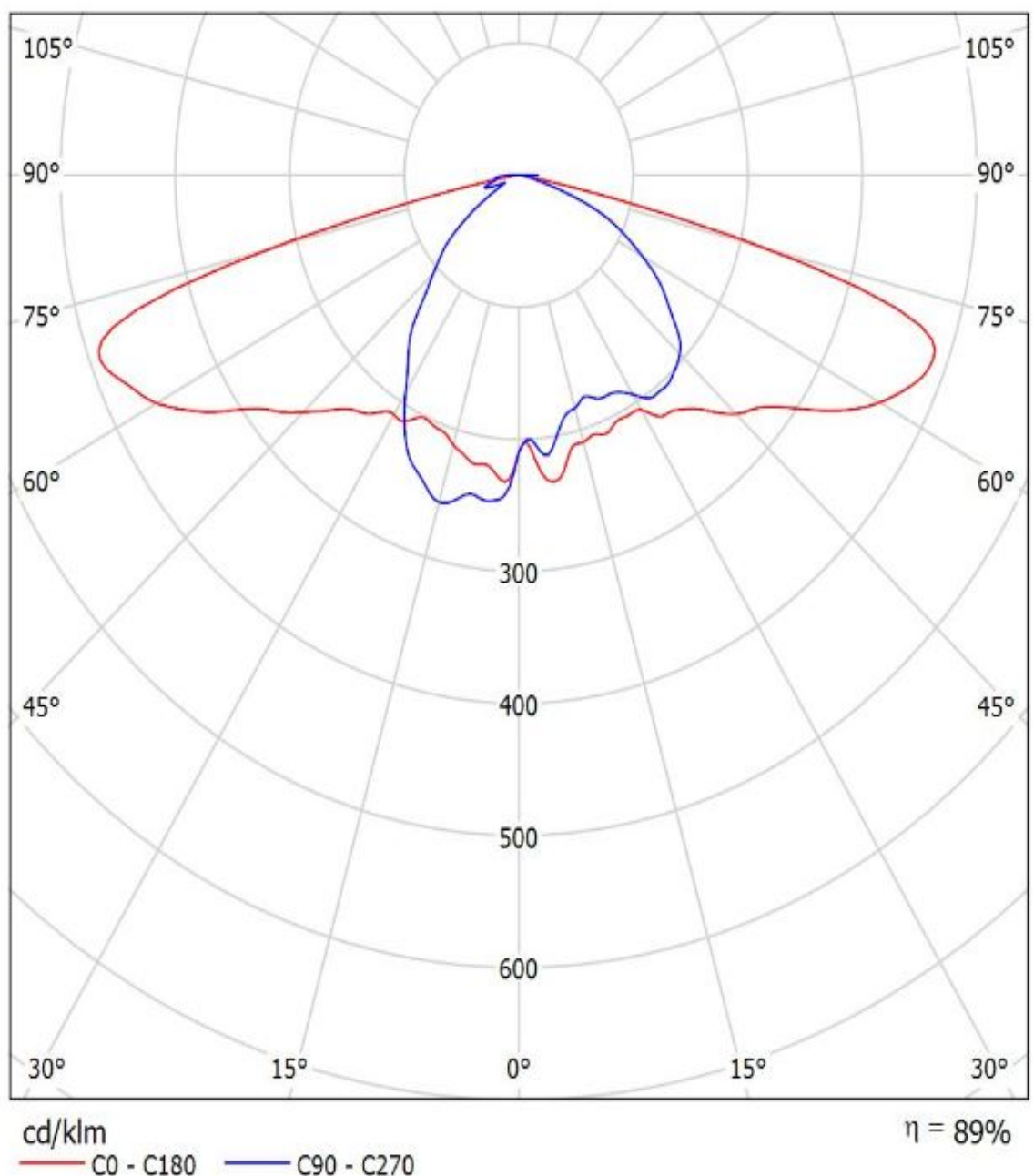
cd/klm

— C0 - C180    — C90 - C270

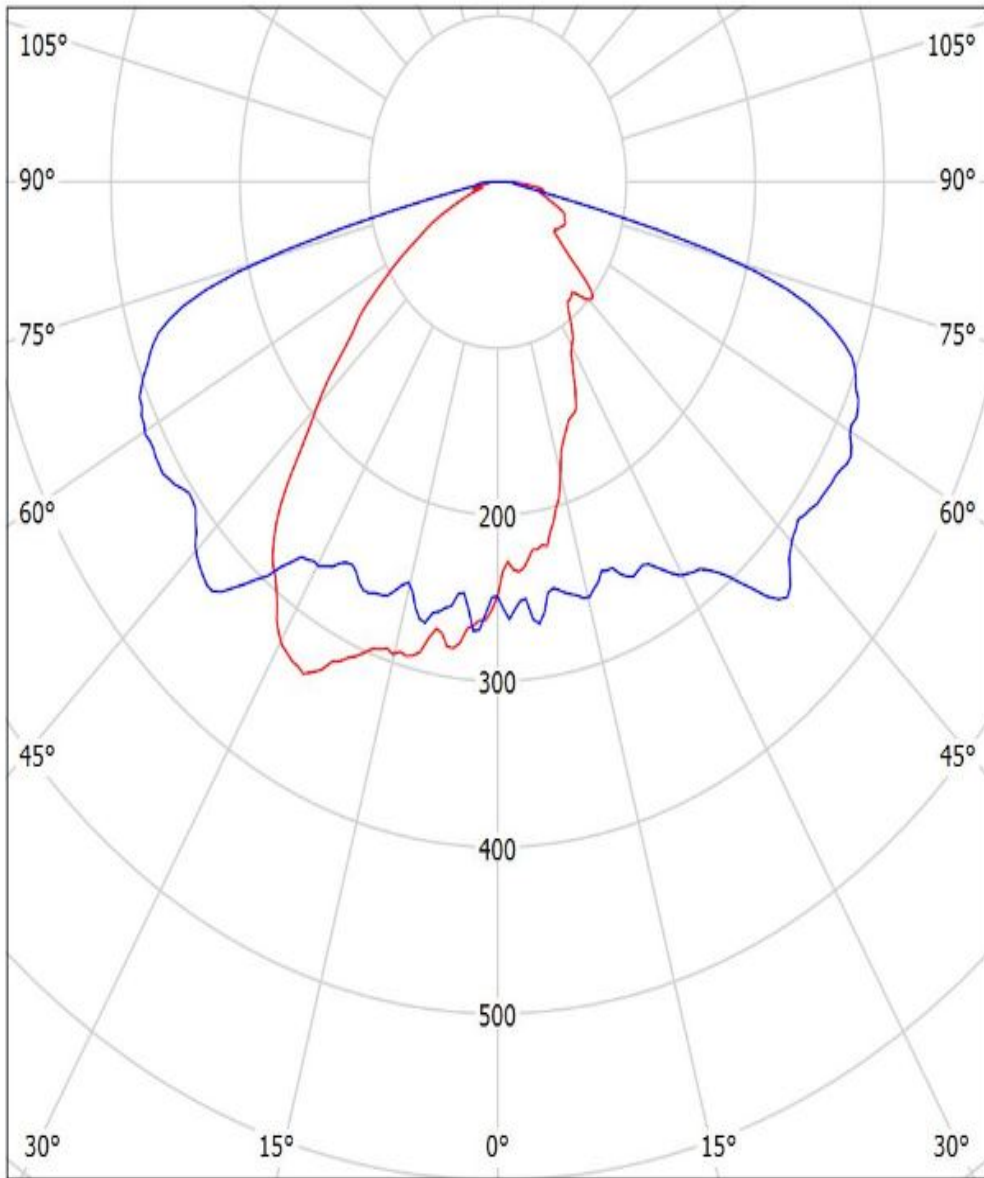
$\eta = 89\%$



Luminaire: Ledil Oy FN14976\_STELLA-DWC2+\_Bender&Wirth - LED holder 434 Typ Z1\_BRIDGELUX\_V10\_Gen7\_SIMULATED  
Lamps: 1 x BRIDGELUX V10 Gen7



Luminaire: Ledil Oy FN14976\_STELLA-DWC2\_Bridgelux\_V22\_Gen7\_SIMULATED FN14976\_STELLA-DWC2\_Bridgelux\_V22\_Gen7\_SIMULATED  
Lamps: 1 x FN14976\_STELLA-DWC2\_Bridgelux\_V22\_Gen7\_SIMULATED

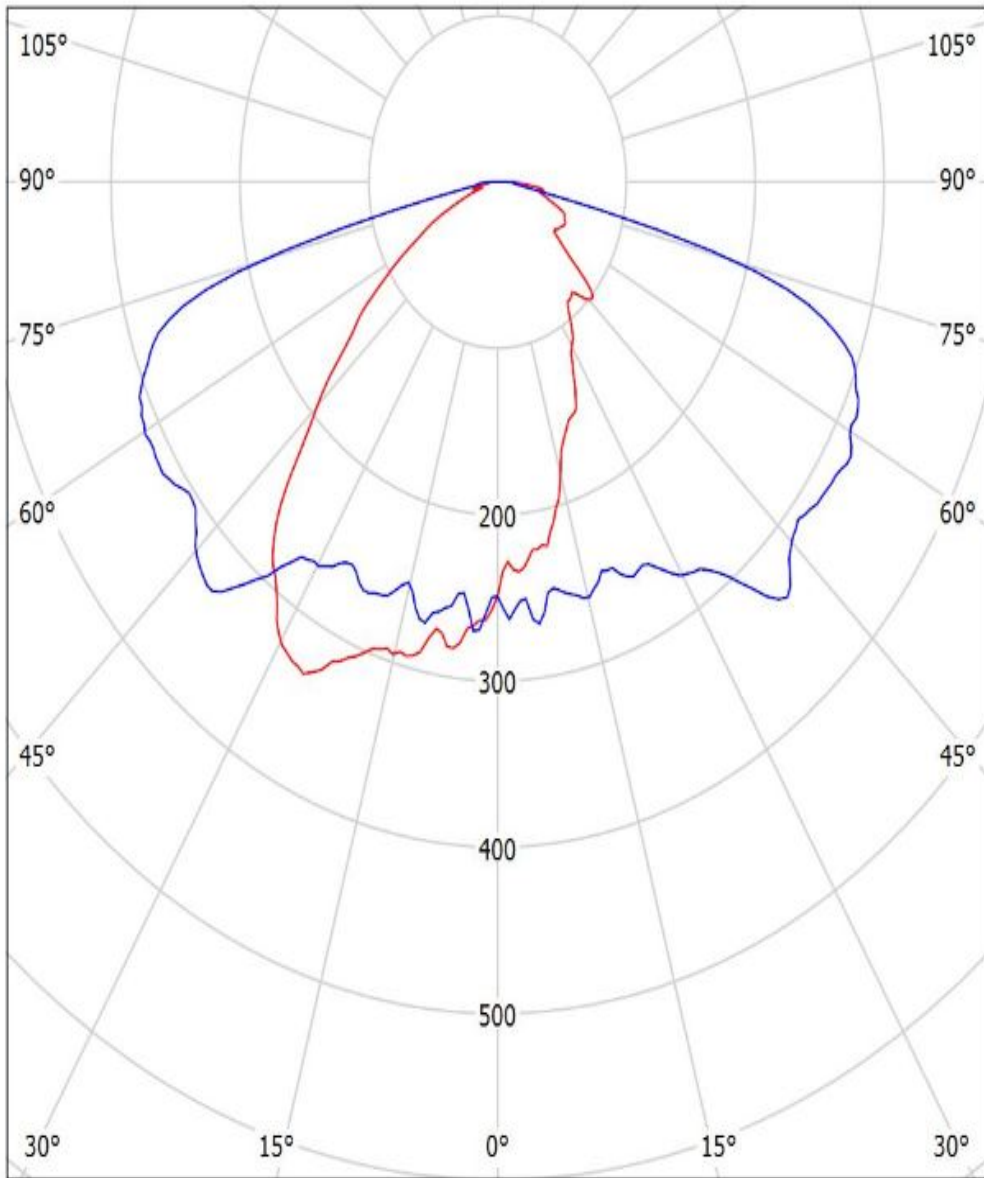


cd/klm

— C0 - C180 — C90 - C270

$\eta = 94\%$

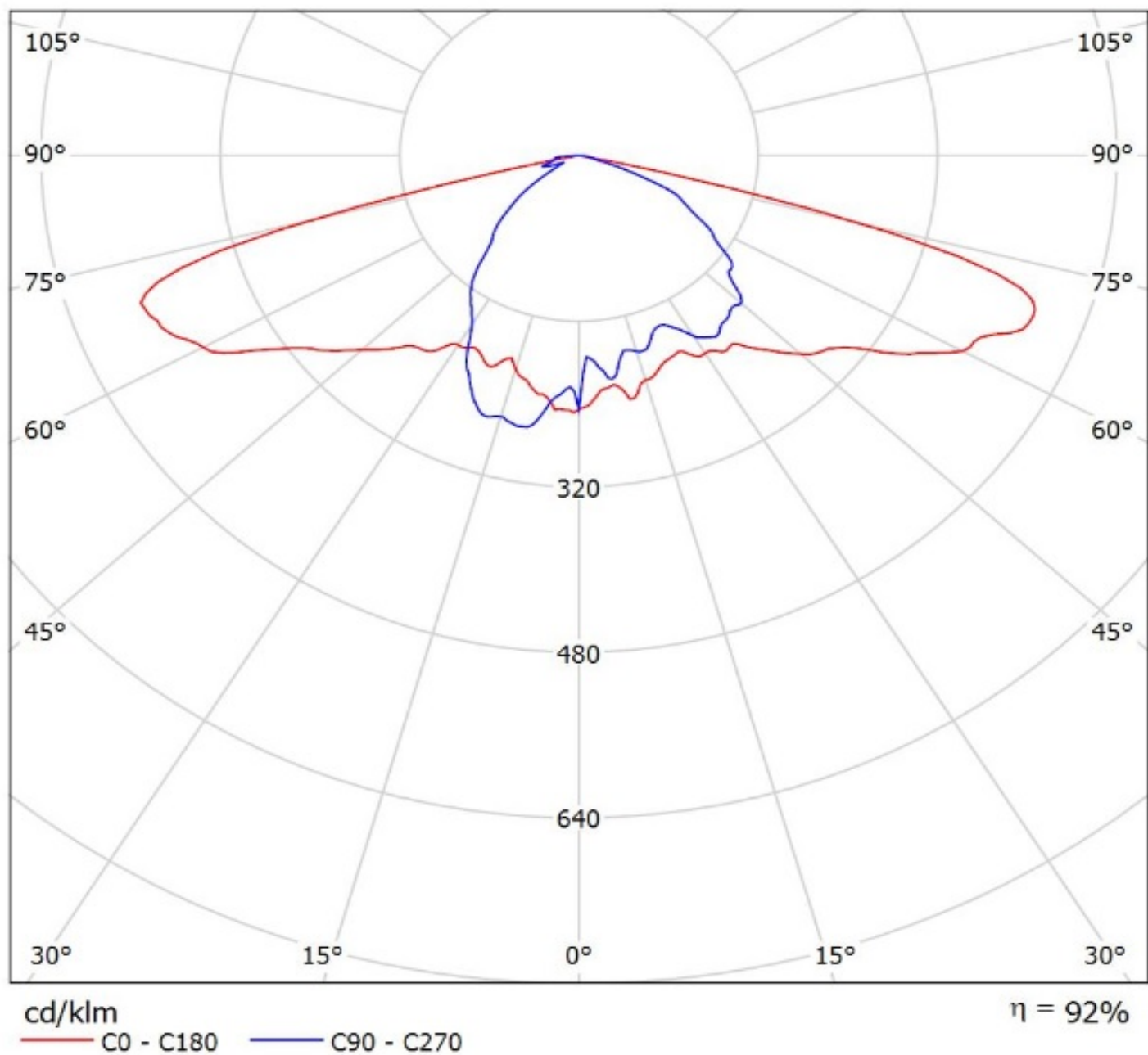
Luminaire: Ledil Oy FN14976\_STELLA-DWC2\_Bridgelux\_V22\_Gen7\_SIMULATED FN14976\_STELLA-DWC2\_Bridgelux\_V22\_Gen7\_SIMULATED  
Lamps: 1 x FN14976\_STELLA-DWC2\_Bridgelux\_V22\_Gen7\_SIMULATED



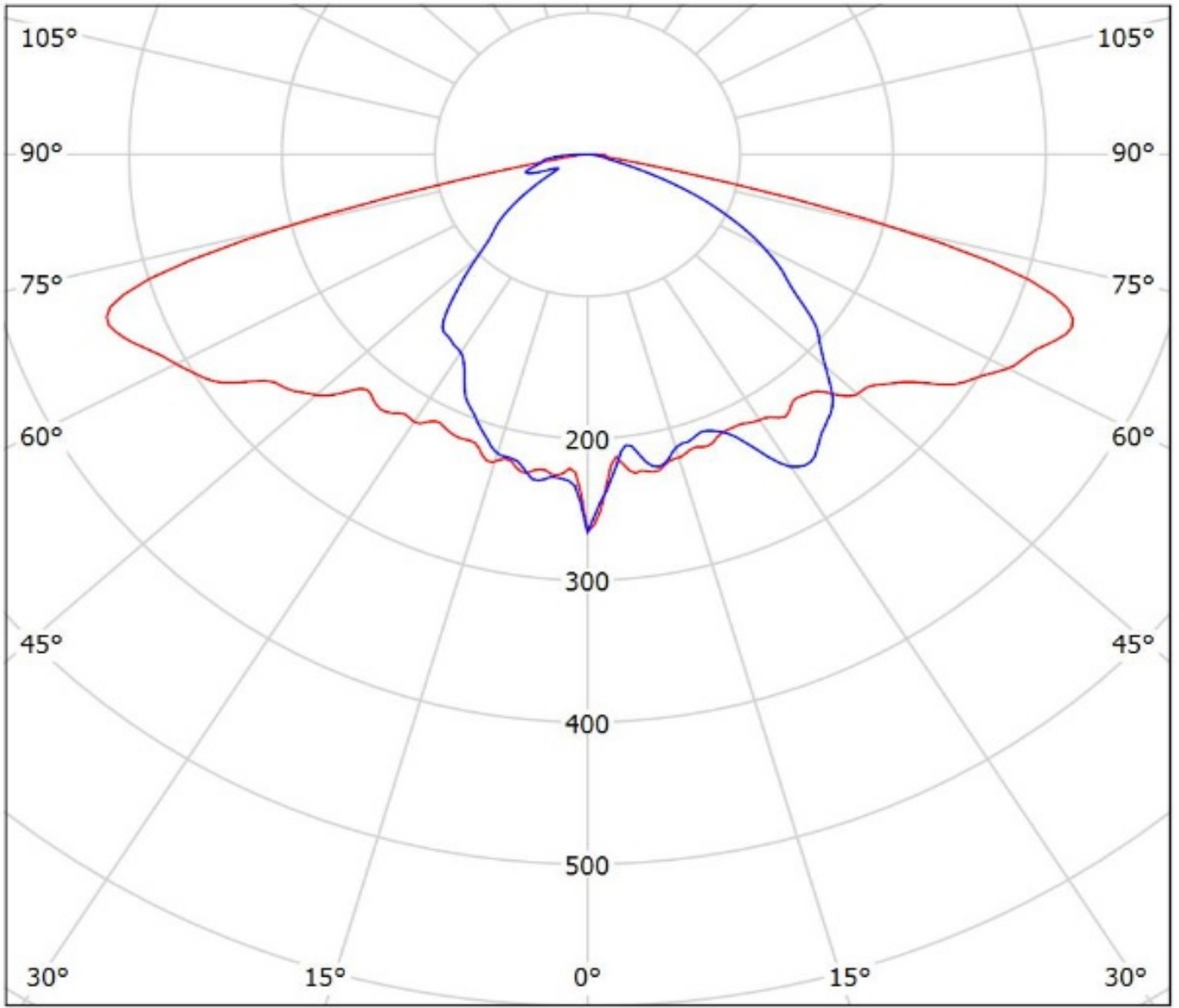
cd/klm  
— C0 - C180 — C90 - C270

$\eta = 94\%$

Luminaire: Ledil Oy FN14976\_STELLA-DWC2\_(CLU028)\_SIMULATED  
Lamps: 1 x Citizen CLU028-1204C4-303M2K1



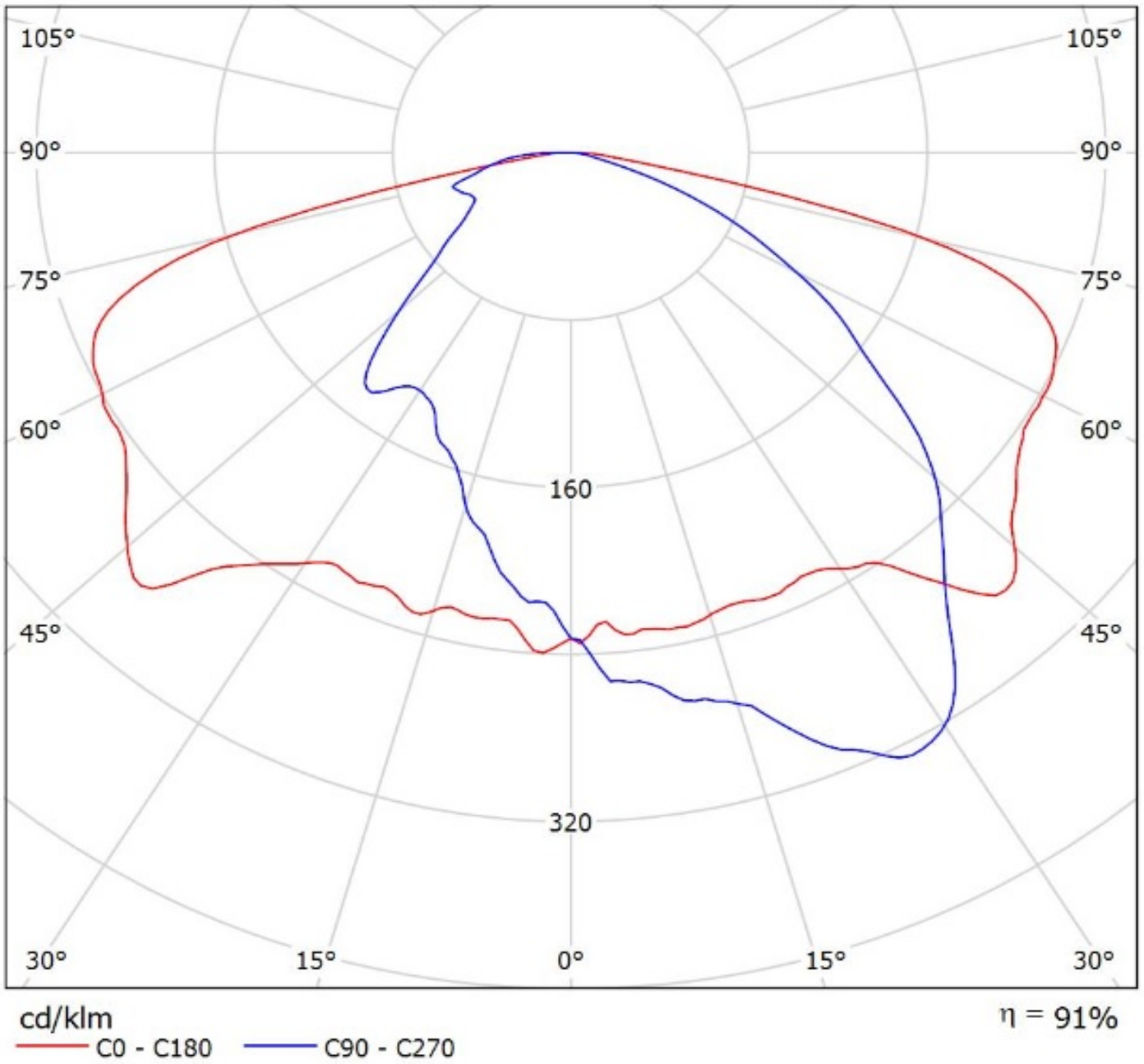
Luminaire: Ledil Oy FN14976\_STELLA-DWC2\_(CLU038)\_SIMULATED  
Lamps: 1 x Citizen CLU038-1210C4-303M2K1



cd/klm  
— C0 - C180 — C90 - C270

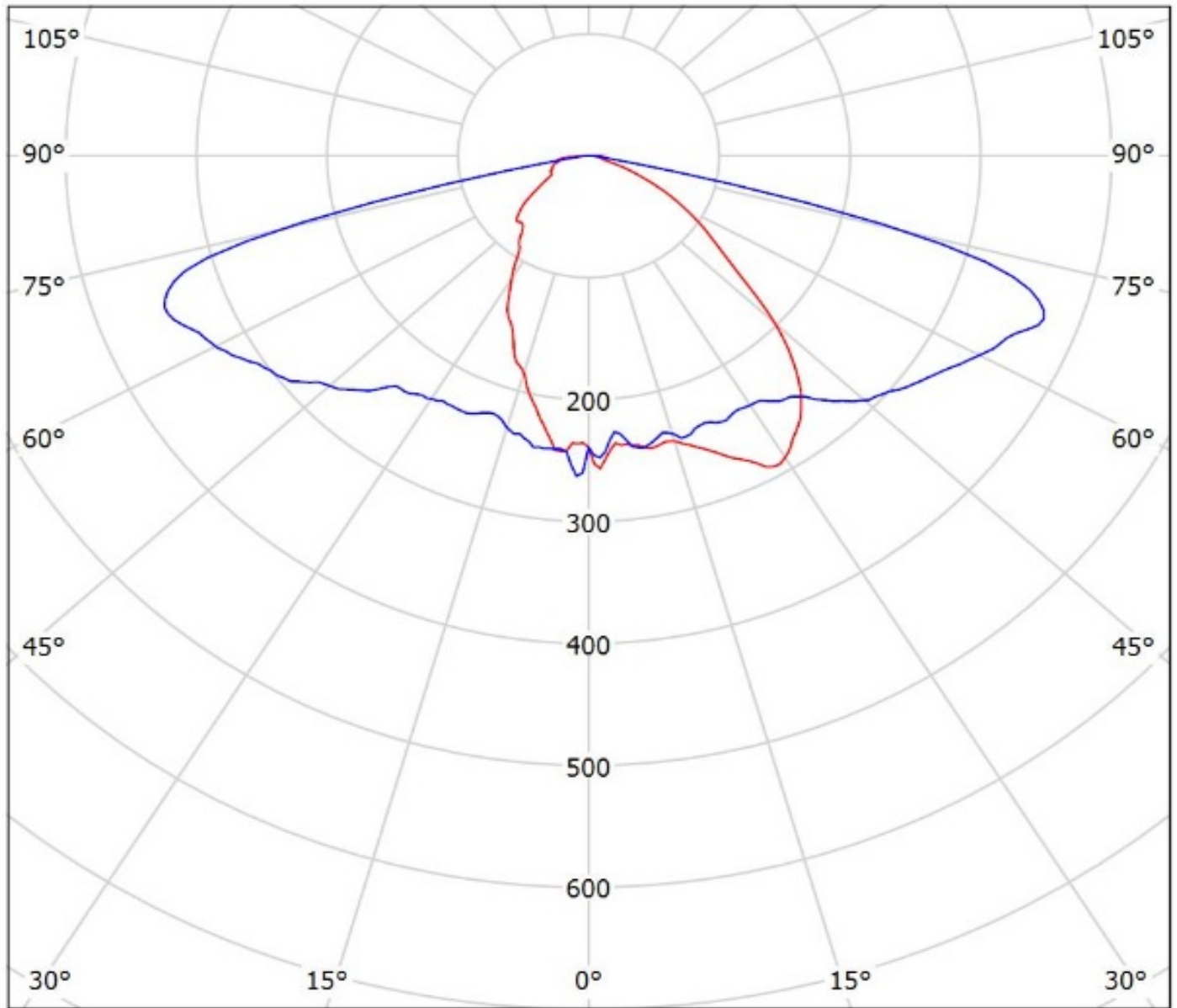
$\eta = 91\%$

Luminaire: Ledil Oy FN14976\_STELLA-DWC2\_(CLU048)\_(B&W\_431\_Type\_Z1)\_SIMULATED  
Lamps: 1 x Citizen CLU048 + Bender & Wirth 431 Type Z1





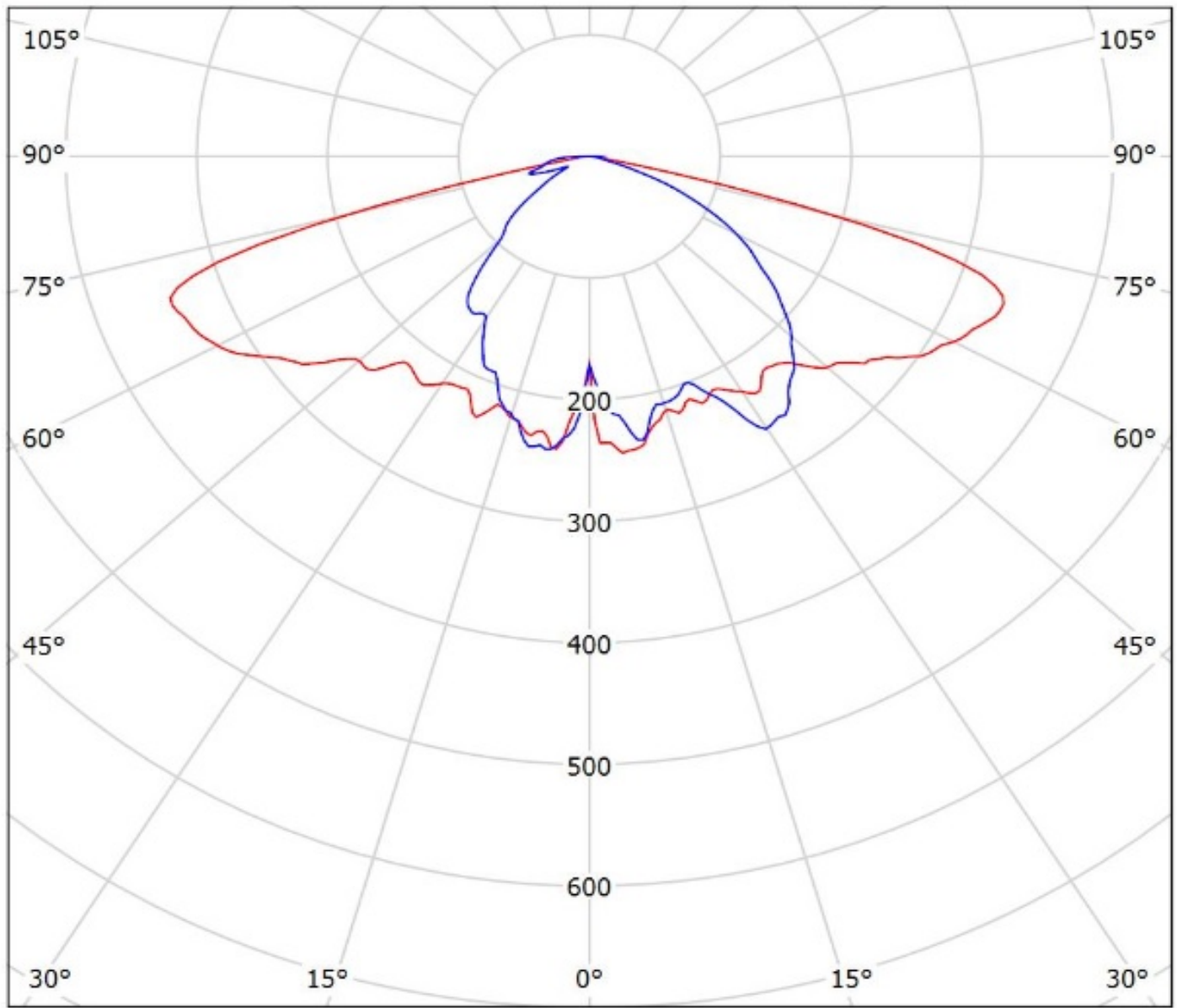
Luminaire: Ledil Oy FN14976\_STELLA-DWC2-CXA2590\_SIMULATED  
Lamps: 1 x Cree CXA2590



cd/klm  
— C0 - C180 — C90 - C270

$\eta = 90\%$

Luminaire: Ledil Oy FN14976\_STELLA-DWC2\_(CXB1830)\_SIMULATED  
Lamps: 1 x Cree CXB1830

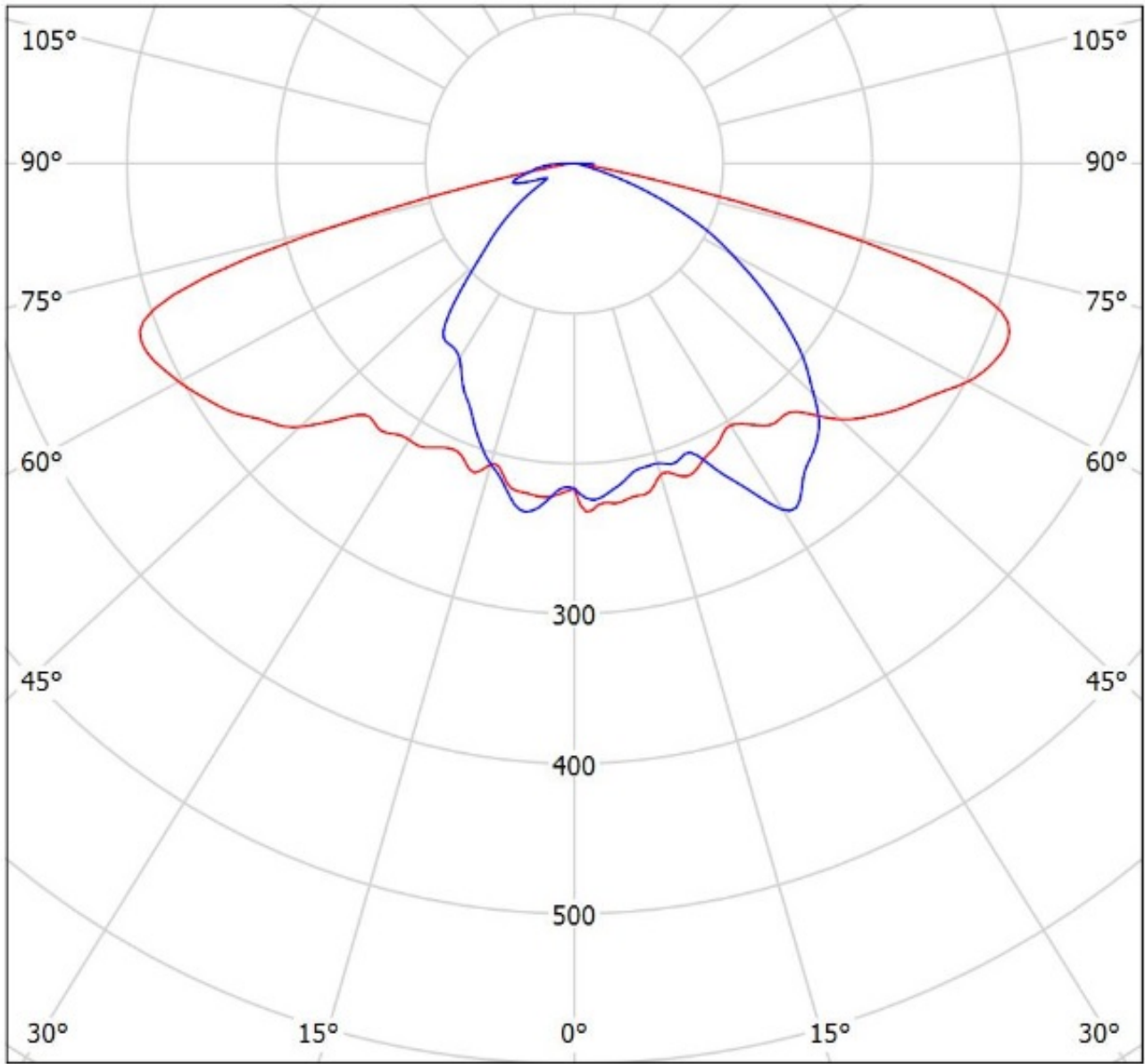


cd/klm

— C0 - C180 — C90 - C270

$\eta = 91\%$

Luminaire: Ledil Oy FN14976\_STELLA-DWC2\_(Luxeon\_CoB\_1208)\_(Bender\_&\_Wirth\_431\_Type\_Z1)\_SIMULATED  
Lamps: 1 x Lumileds Luxeon CoB 1208 + Bender & Wirth 431 Type Z1

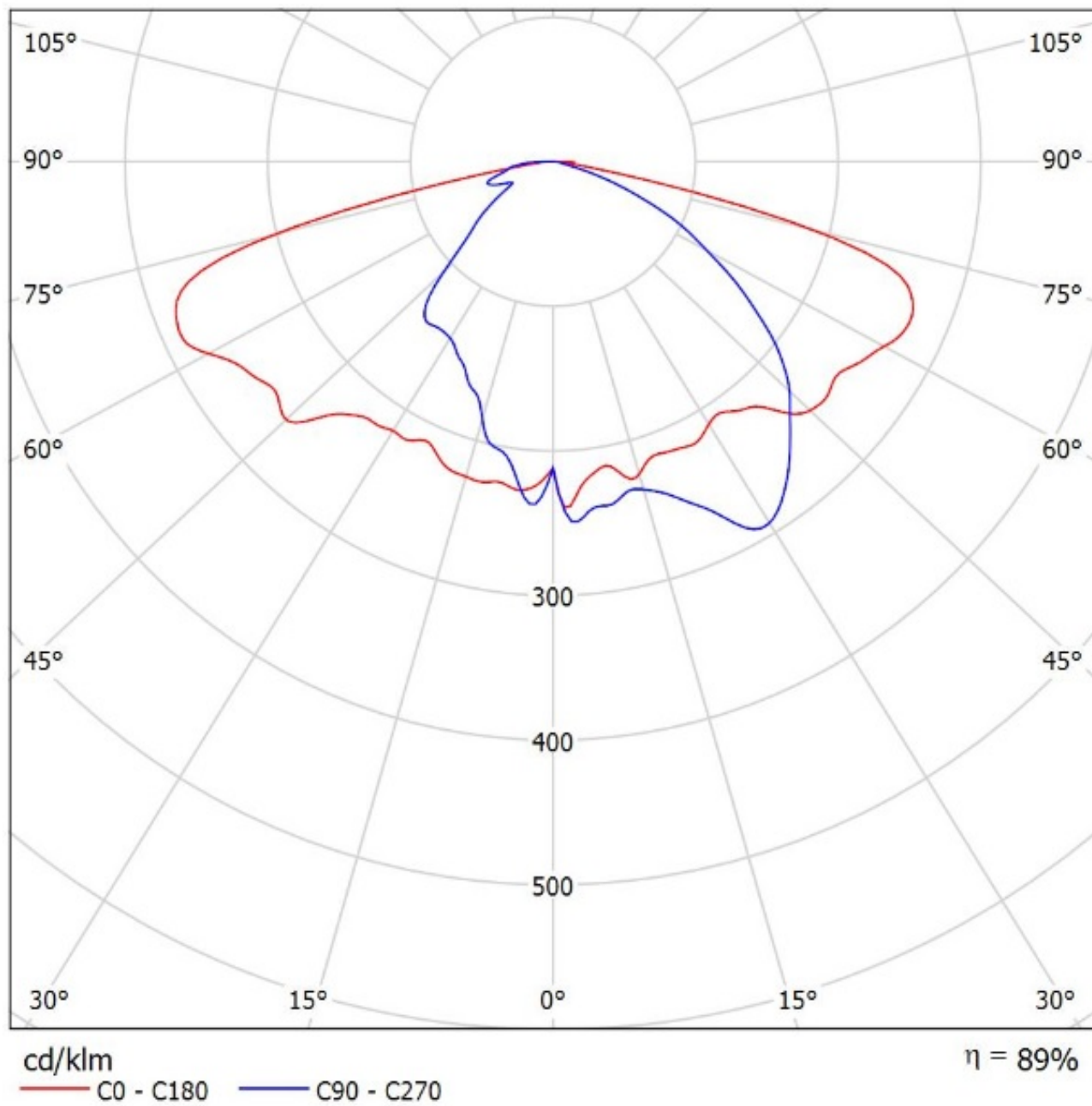


cd/klm

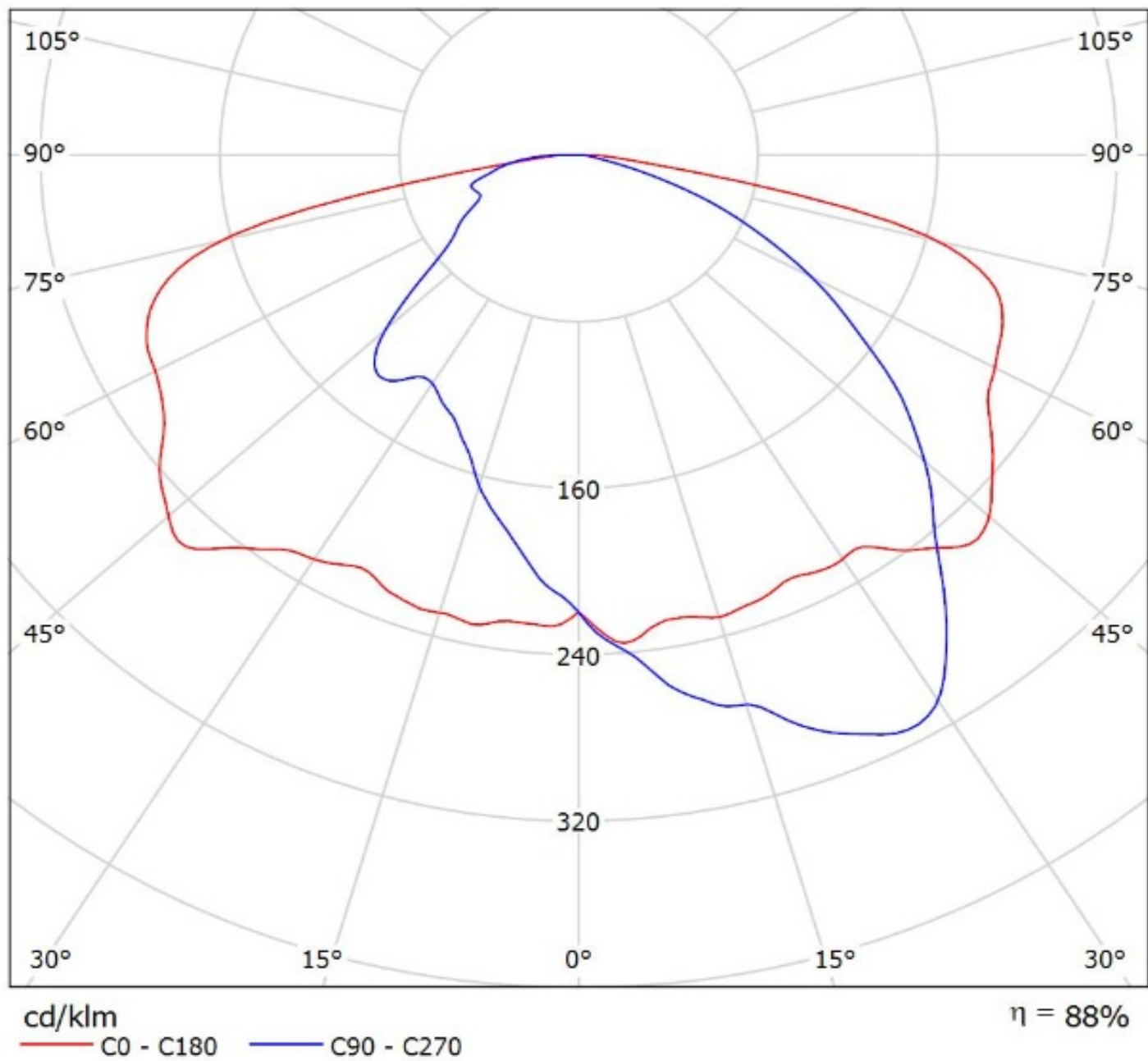
— C0 - C180    — C90 - C270

$\eta = 88\%$

Luminaire: Ledil Oy FN14976\_STELLA-DWC2\_(Luxeon\_CoB\_1211)\_(Bender\_&\_Wirth\_431\_Type\_Z1)\_SIMULATED  
Lamps: 1 x Lumileds Luxeon CoB 1211 + Bender & Wirth 431 Type Z1

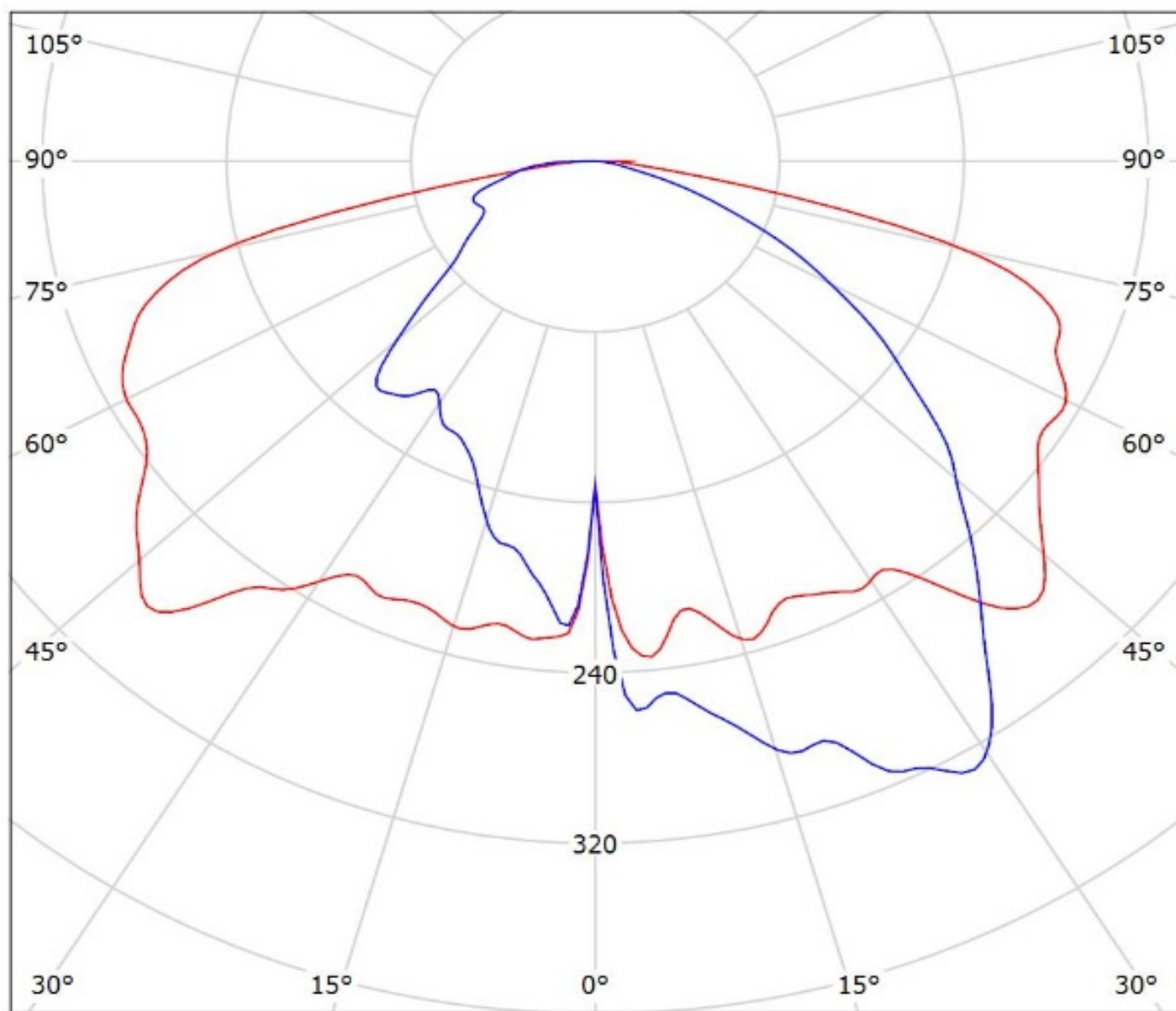


Luminaire: Ledil Oy FN14976\_STELLA-DWC2\_(Luxeon\_CoB\_1216)\_(431\_Typ\_Z1)\_SIMULATED  
Lamps: 1 x Lumileds Luxeon CoB 1216 + Bender & Wirth 431 Typ Z1





Luminaire: Ledil Oy FN14976\_STELLA-DWC2\_(CXM-22)\_(B&W\_431\_Type\_Z1)\_SIMULATED  
Lamps: 1 x Luminus CXM-22 + Bender & Wirth 431 Type Z1



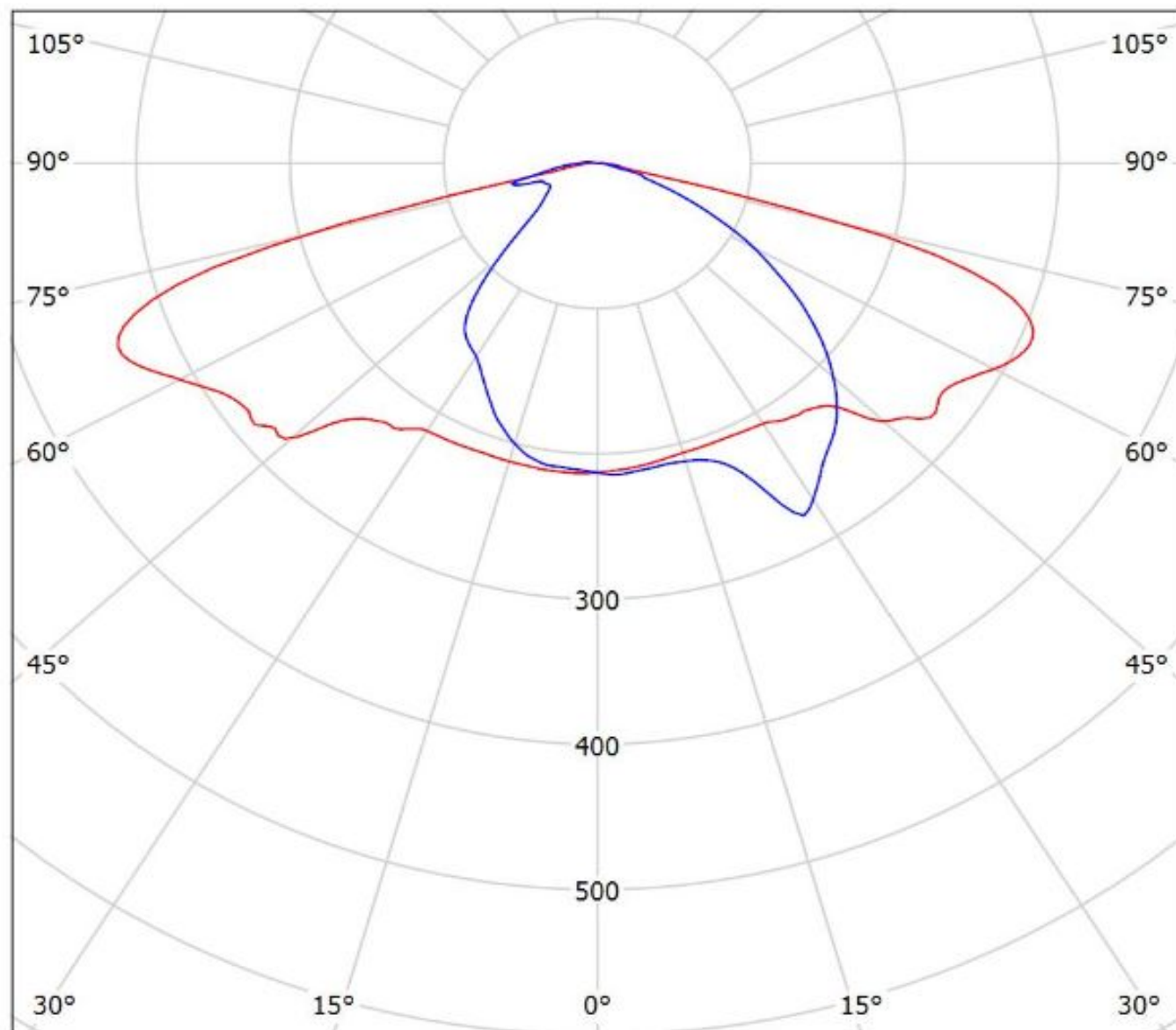
cd/klm  
— C0 - C180 — C90 - C270

$\eta = 91\%$



Luminaire: Ledil FN14976\_STELLA-DWC2\_(Soleriq\_S19)

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



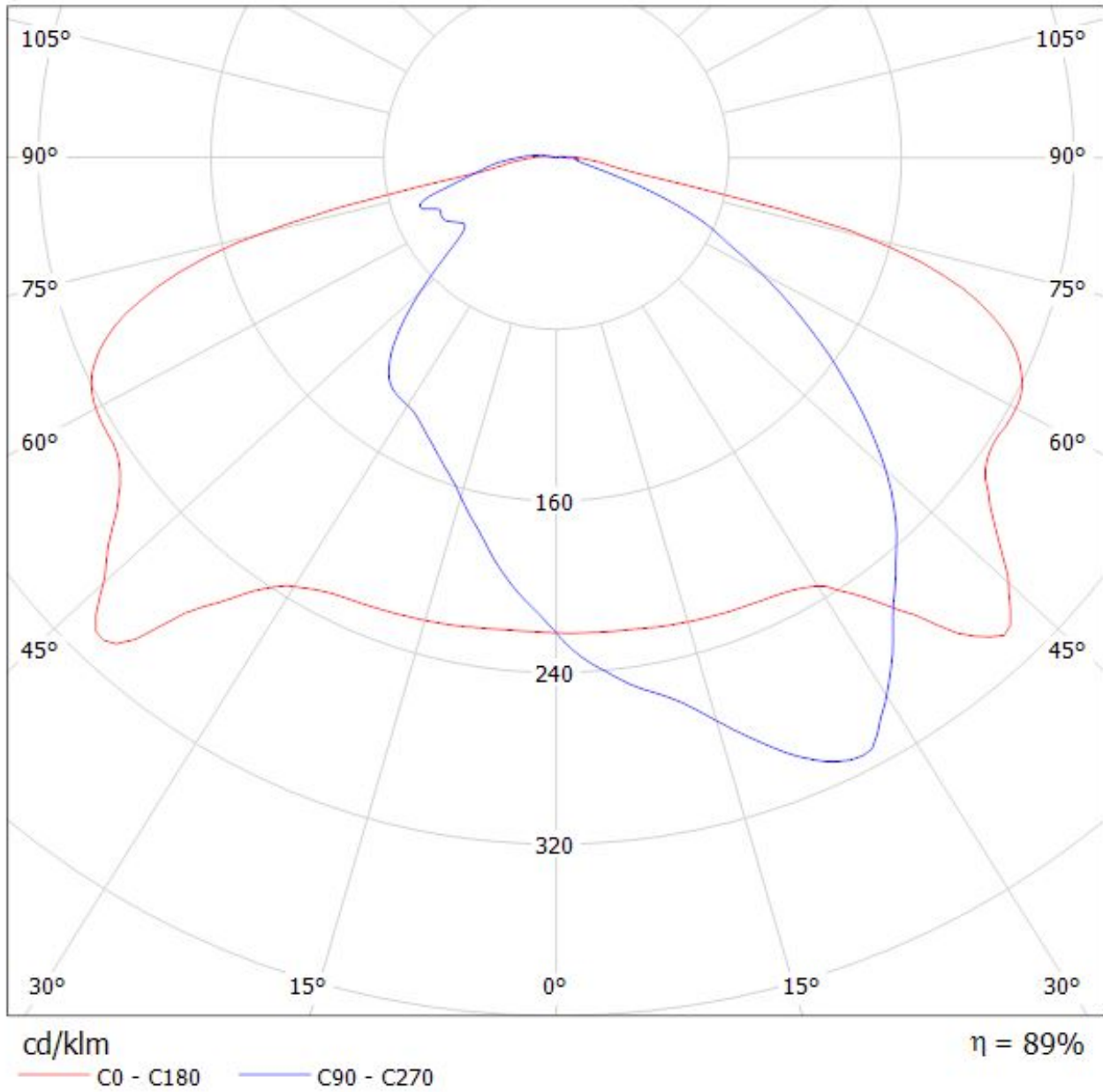
cd/klm

— C0 - C180 — C90 - C270

η = 90%

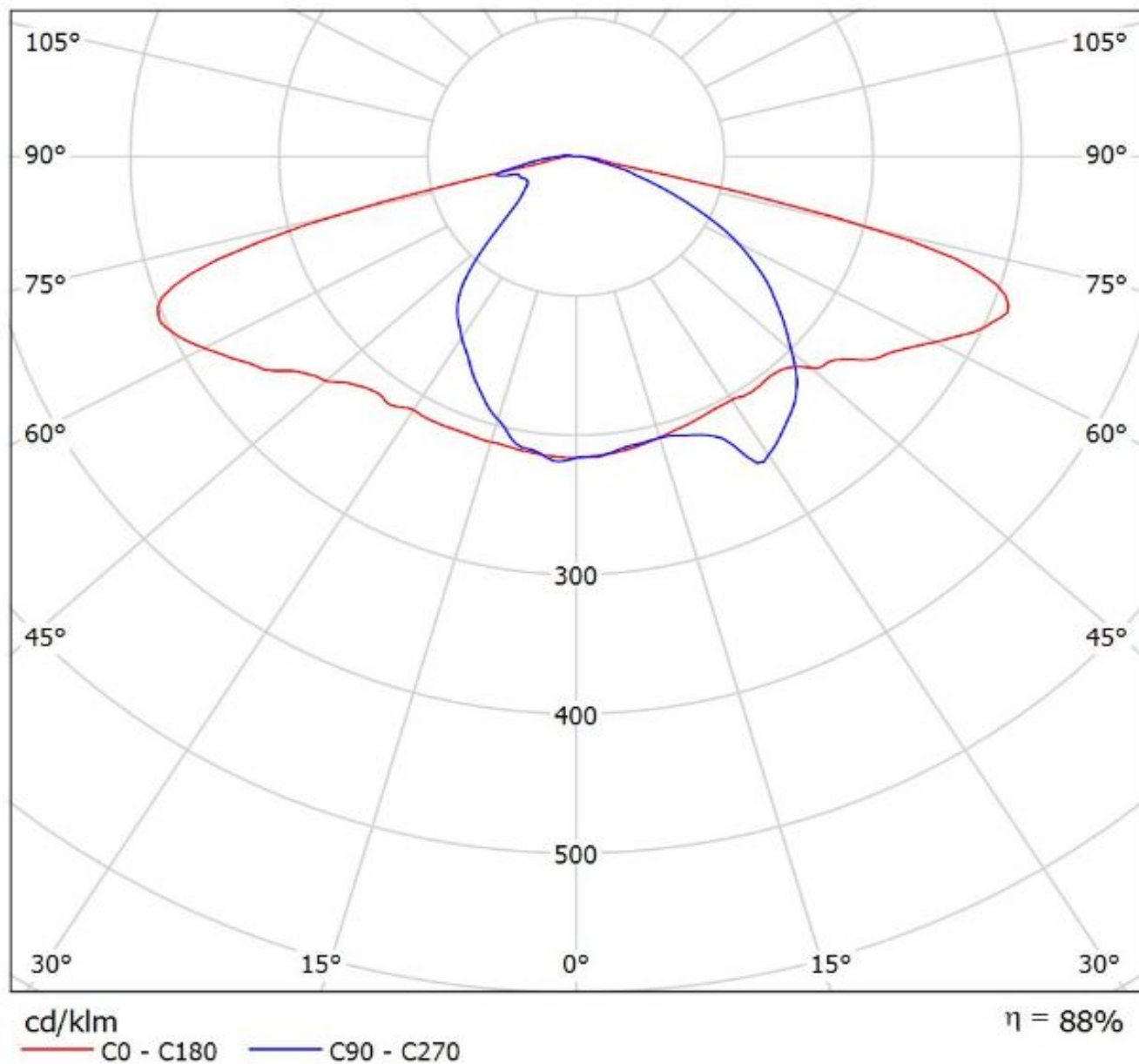
Luminaire: Ledil FN14976\_STELLA-DWC2\_(MJT\_80W\_Les22)\_+431TypZ1

Lamps: 1 x Seoul\_MJT\_80W\_Les22mm\_(SAWx22AAA)\_+431TypZ1\_2501.46lm@250mA\_P=13.317W\_I=0.25A



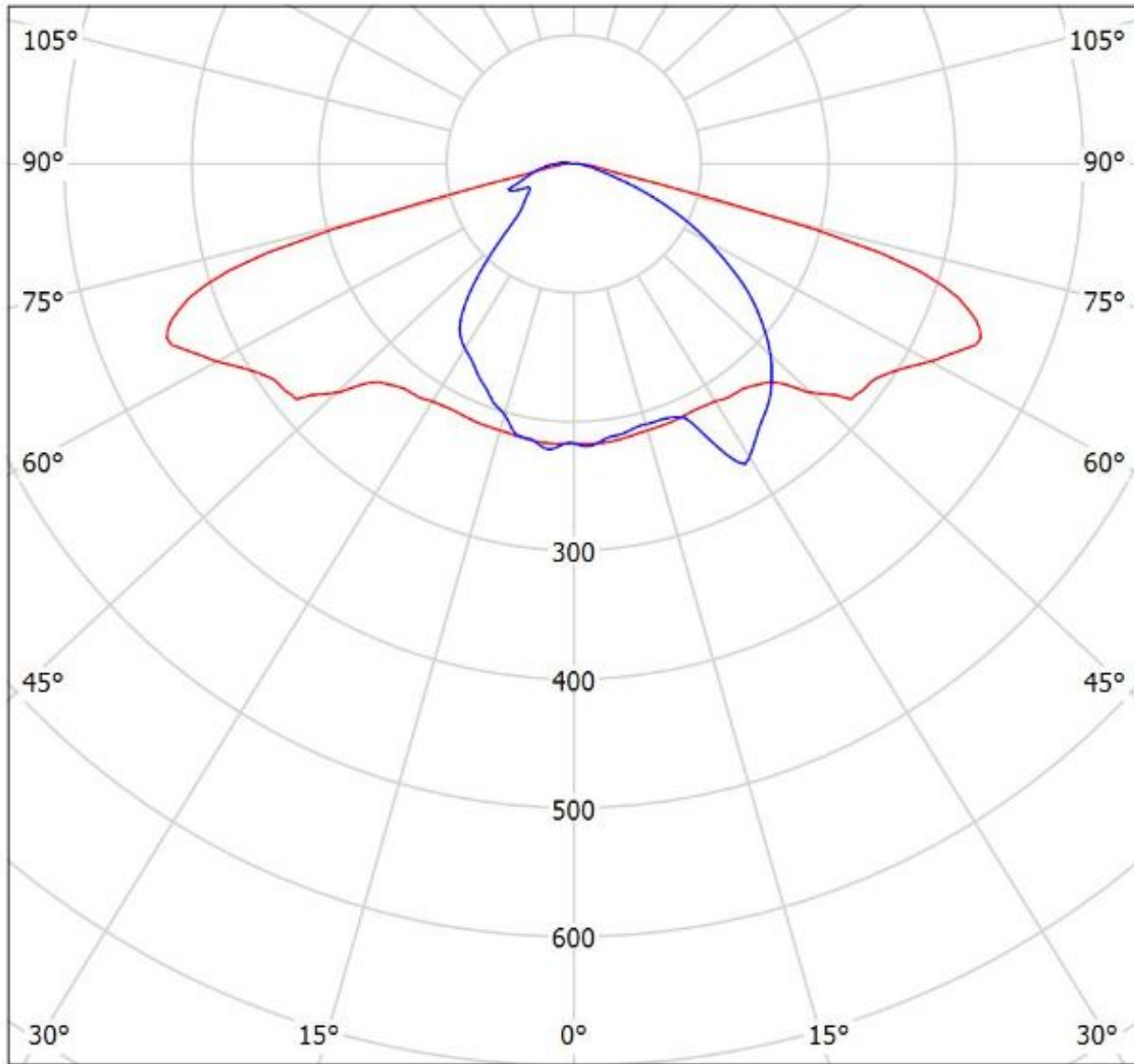
Luminaire: Ledil FN14976\_STELLA-DWC2\_(MJT\_30W\_Les14,5)

Lamps: 1 x Seoul\_MJT\_30W\_Les14,5mm\_(SAWx1566A)\_1353.32lm@250mA\_P=8.20525W\_I=0.25A



Luminaire: Ledil FN14976\_STELLA-DWC2\_(MJT\_30W\_Les14,5)\_+433\_Typ\_Z1

Lamps: 1 x Seoul\_MJT\_30W\_Les14,5mm\_(SAWx1566A)\_433\_Typ\_Z1\_1343.97lm@250mA\_P=8.2295W\_I=0.25A



cd/klm

— C0 - C180 — C90 - C270

$\eta = 90\%$

**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.