

## DETAILS

<b>Product Number</b>	CA14507_G2-LXP2-D-P
<b>Family</b>	Leila
<b>Type</b>	Assembly
<b>Color</b>	black
<b>Diameter</b>	21,8 mm
<b>Height</b>	14,7 mm
<b>Style</b>	round
<b>Optic Material</b>	
<b>Holder Material</b>	
<b>Fastening</b>	tape, pin
<b>Status</b>	production ready
<b>ROHS Compliant</b>	Yes
<b>Date Updated</b>	30/05/2016



## OPTICAL PROPERTIES

LED	Viewing	Light	Effi-		Connector
	Angle	Beam	ciency	cd/lm	
XP-E	9,7 deg	Diffuser	88 %	19.850	-
XP-G2	sim: 10	Diffuser	sim: 94 %	sim: 24.200-	
XT-E	sim: 11	Diffuser	sim: 90 %	sim: 16.000-	
XP-G3	sim: 14	Diffuser	sim: 91 %	sim: 11.900-	
XD16	13 deg	Diffuser	78 %	7.400	-
H35C1 (LEMWA33)	sim: 12	Diffuser	sim: 92 %	sim: 15.600-	
LUXEON Z ES	14 deg	Diffuser	83 %	8.700	-
LUXEON T	sim: 12	Diffuser	sim: 93 %	sim: 14.300-	
LUXEON TX	sim: 11	Diffuser	sim: 92 %	sim: 15.400-	
LUXEON C	11 deg	Diffuser	80 %	11.000	-
LUXEON IR Compact	sim: 8	Diffuser	sim: 84 %	sim: 0.000	-
LUXEON V	18 deg	Diffuser	83 %	4.700	-
NCSxx19A	13 deg	Diffuser	86 %	9.000	-
NWSx229A	29 deg	Diffuser	83 %	4.600	-
NVSxx19B/NVSxx19C	sim: 13	Diffuser	sim: 89 %	sim: 12.000-	
NVSW3x9A	17 deg	Diffuser	81 %	6.100	-
Oslon Square Gen3	sim: 11	Diffuser	sim: 92 %	sim: 16.700-	
Oslon SSL 80	sim: 8,3	Diffuser	sim: 92 %	sim: 30.500-	
SFH 4770S	sim: 9	Diffuser	sim: 85 %	-	-
Oslon Square Flat	sim: 9,4	Diffuser	sim: 91 %	sim: 19.120-	
LH351B	sim: 12	Diffuser	sim: 92 %	sim: 13.000-	
LH351A(3535)	sim: 11	Diffuser	sim: 91 %	sim: 15.900-	
Z5P	sim: 10	Diffuser	sim: 92 %	sim: 17.500-	
Z5M1/Z5M2	sim: 12	Diffuser	sim: 93 %	sim: 15.200-	
Z8Y22P	15 deg	Diffuser	78 %	5.600	-



## PRODUCT DATASHEET

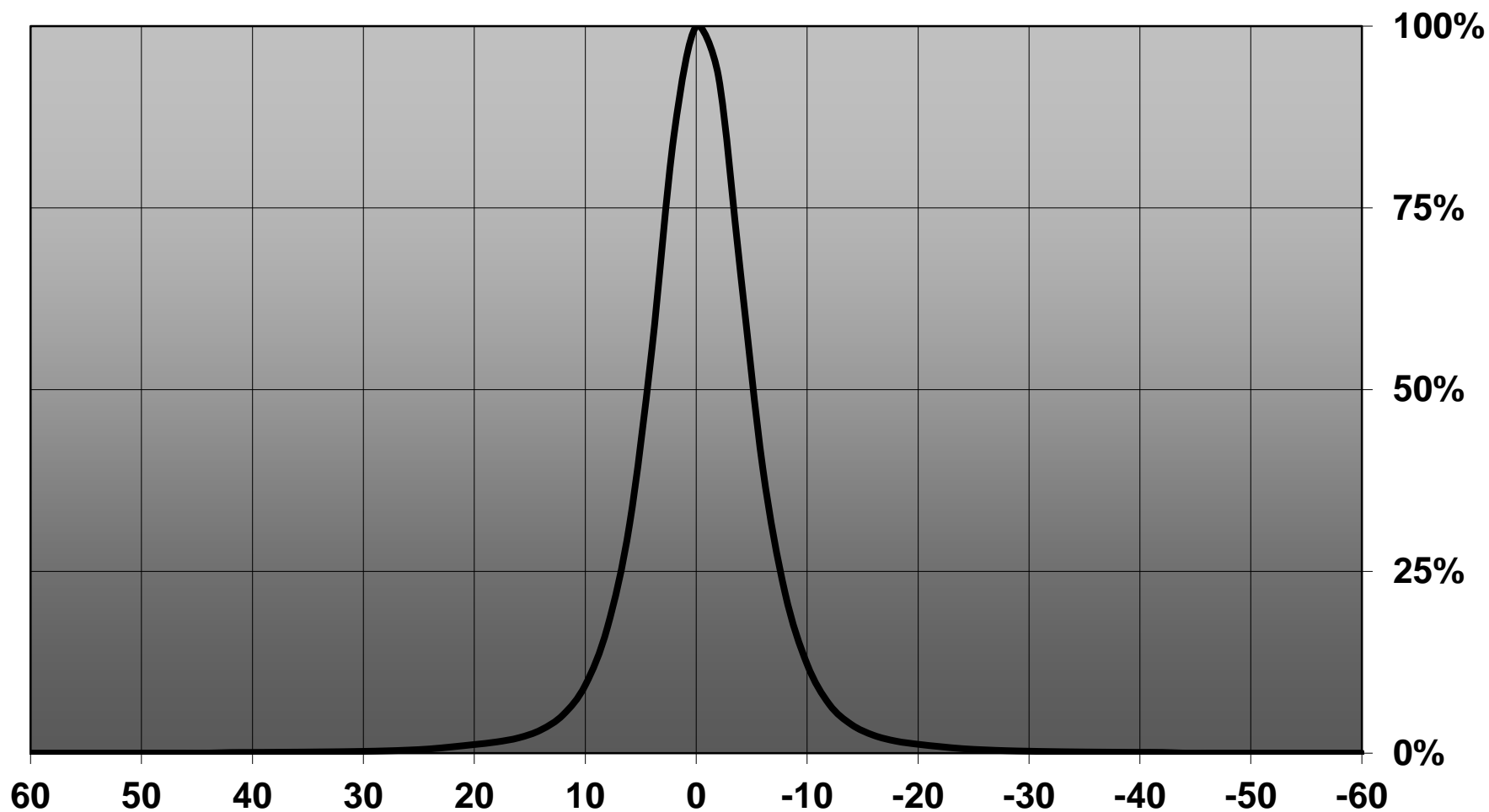
### Leila series

last update 30/5/2016

## OPTICAL PROPERTIES

LED	Viewing Angle	Light Beam	Effi- ciency	cd/lm	Connector
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Relative intensity of CA14507\_G2-LXP2-D-P\_(XP-E)



D

C

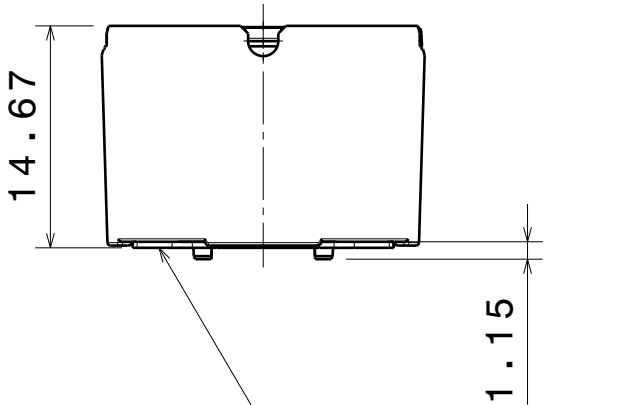
B

A

Applies to:
CA14503
CA14505
CA14507
CA14509
CA14511

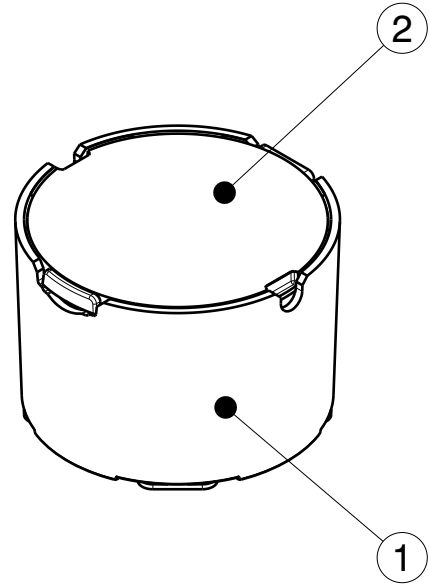
4

4



Front view

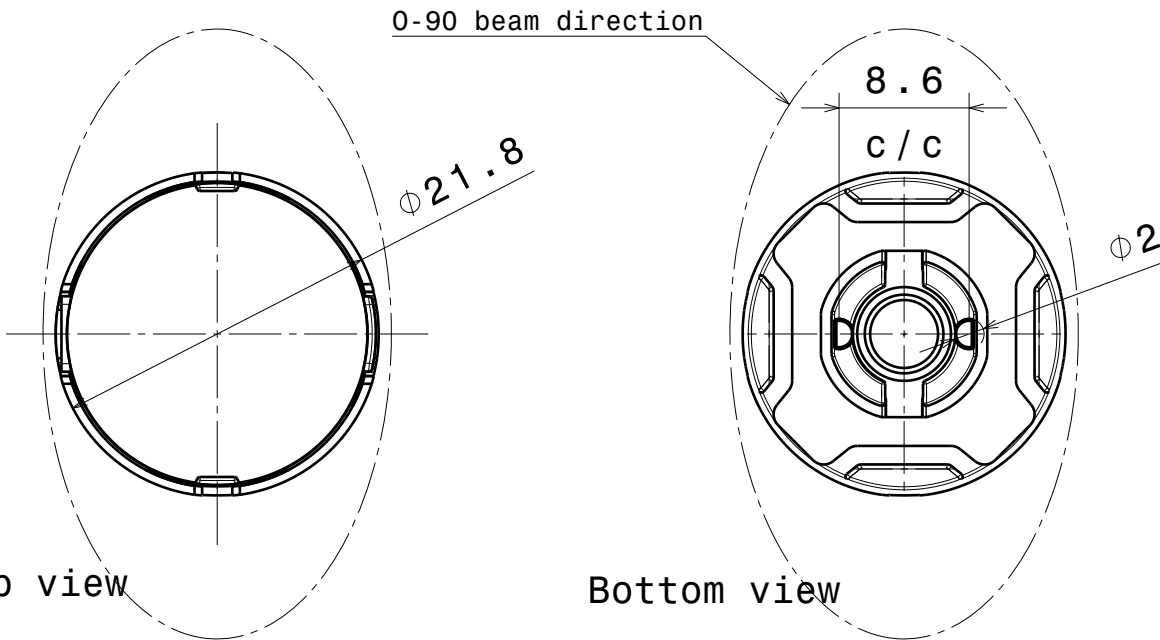
PU foam tape 0.4mm



Isometric view

3

3



Top view

Bottom view

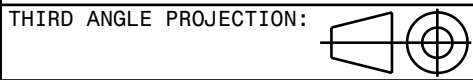
2

2

INDEX	PART NO	DESCRIPTION	MATERIAL	COLOUR
1	C14443	LXP2-LT-HLD	PC	black
2	-	LXP2-series_mech lens	PMMA	clear

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  
**LEILA-G2-LXP2-PIN**

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SIZE	PART NUMBER
A4	-

SCALE	2:1	WEIGHT	4,0 g	SHEET	1/1
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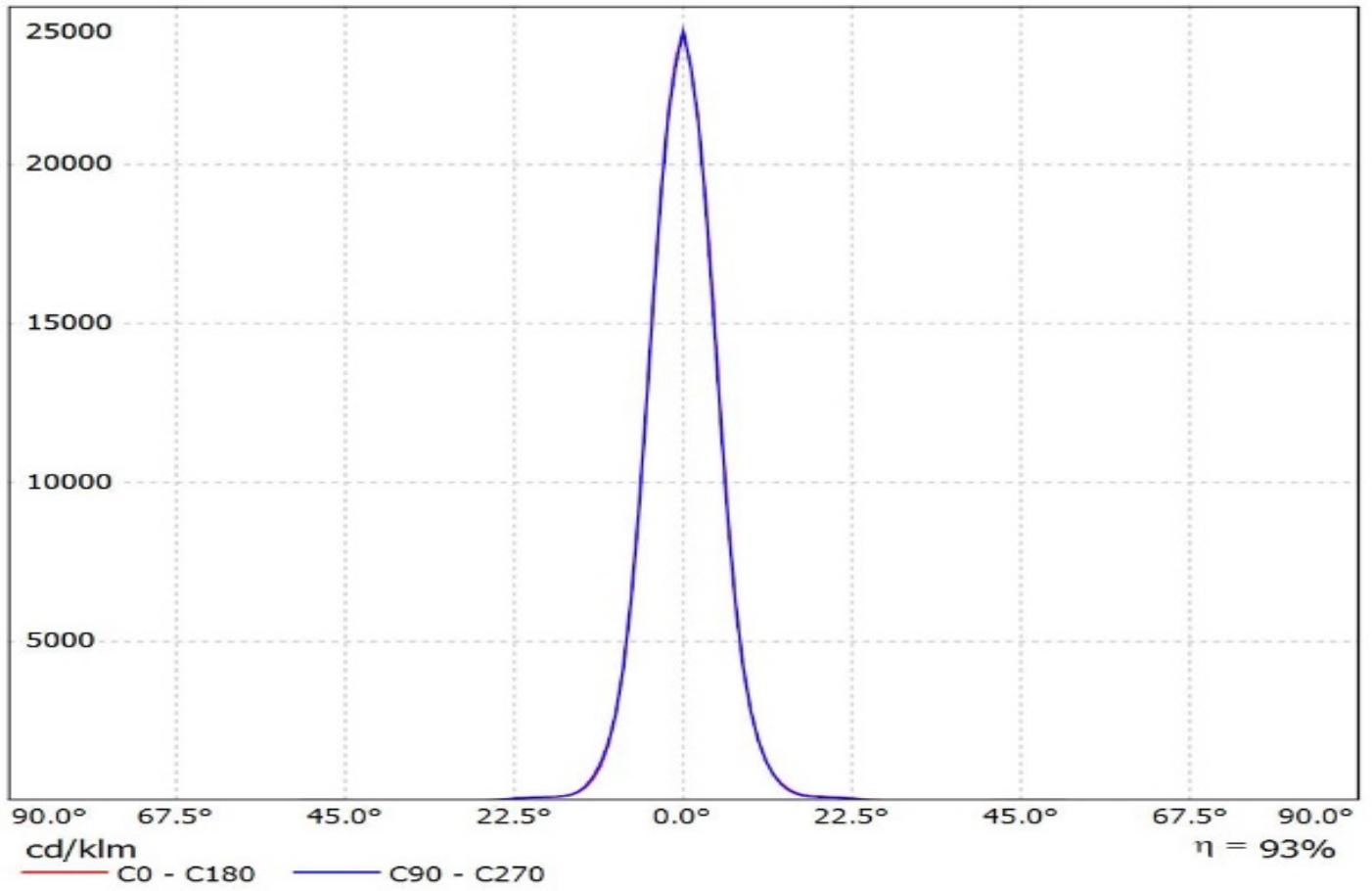
1

1

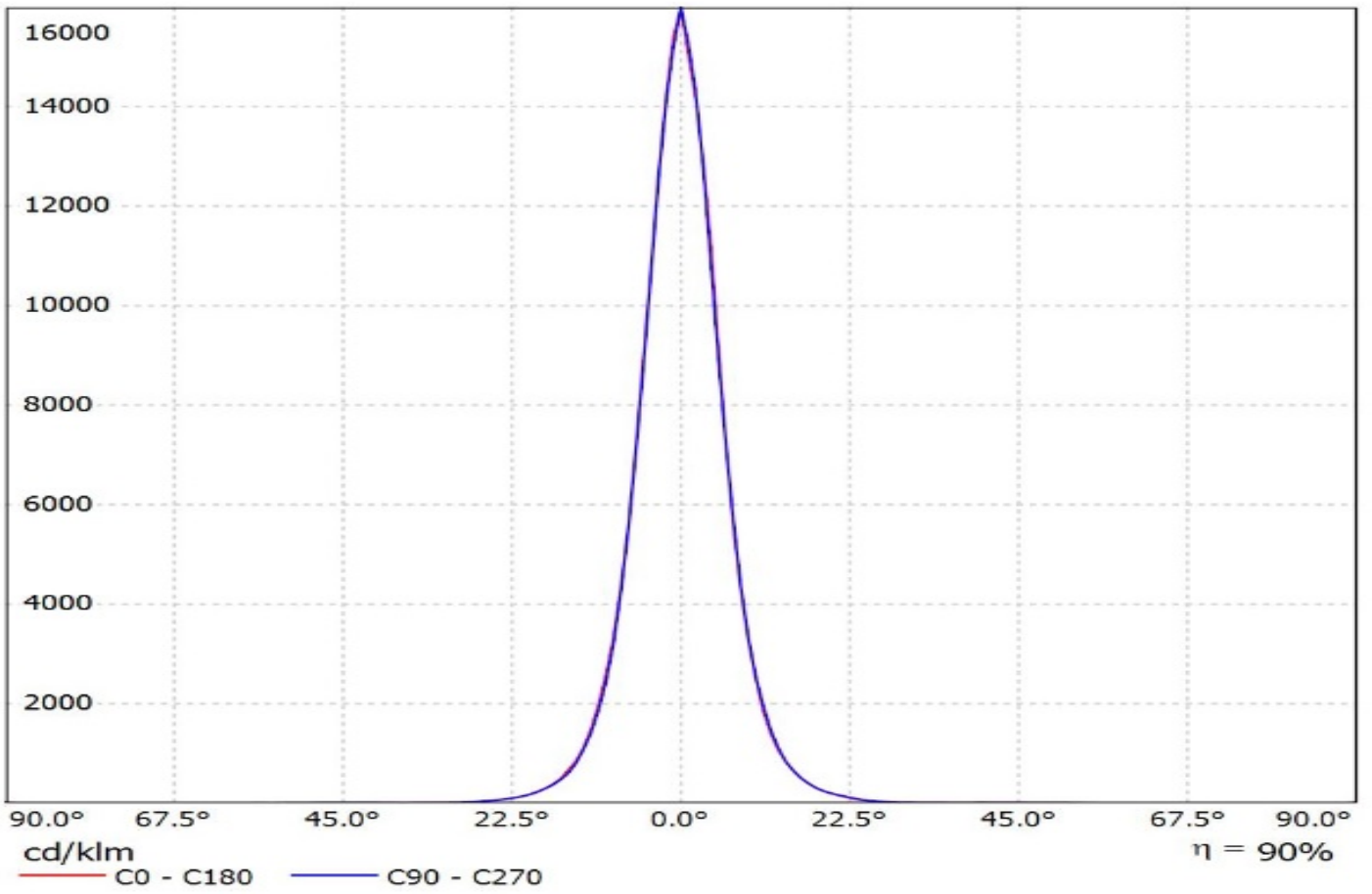
D

A

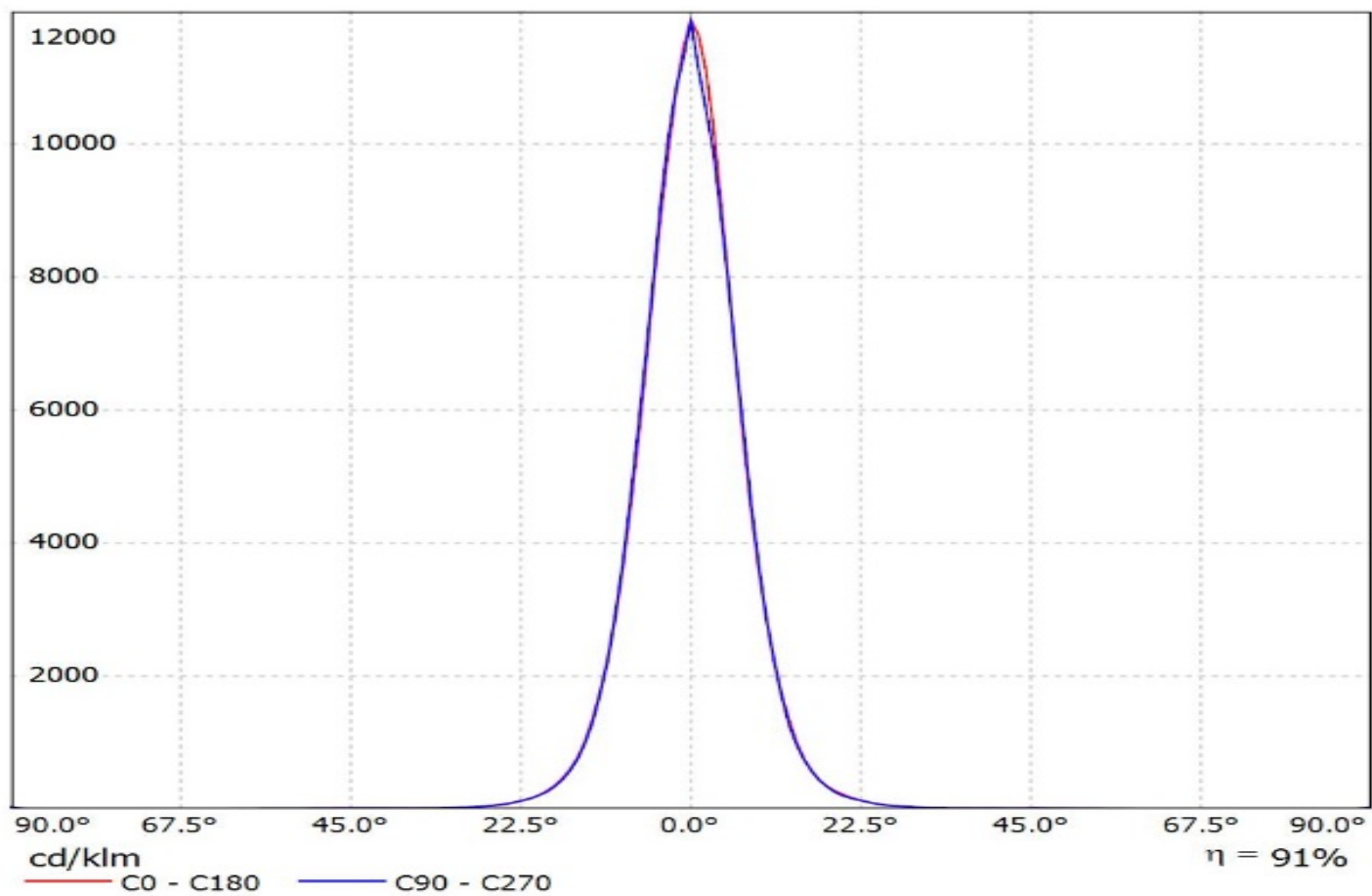
Luminaire: Ledil Oy CA14507\_G2-LXP2-D-P\_XP-G2\_SIMULATED  
Lamps: 1 x CREE XP-G2



Luminaire: Ledil Oy CA14507\_G2-LXP2-D-P\_(XT-E)\_SIMULATED  
Lamps: 1 x Cree XT-E

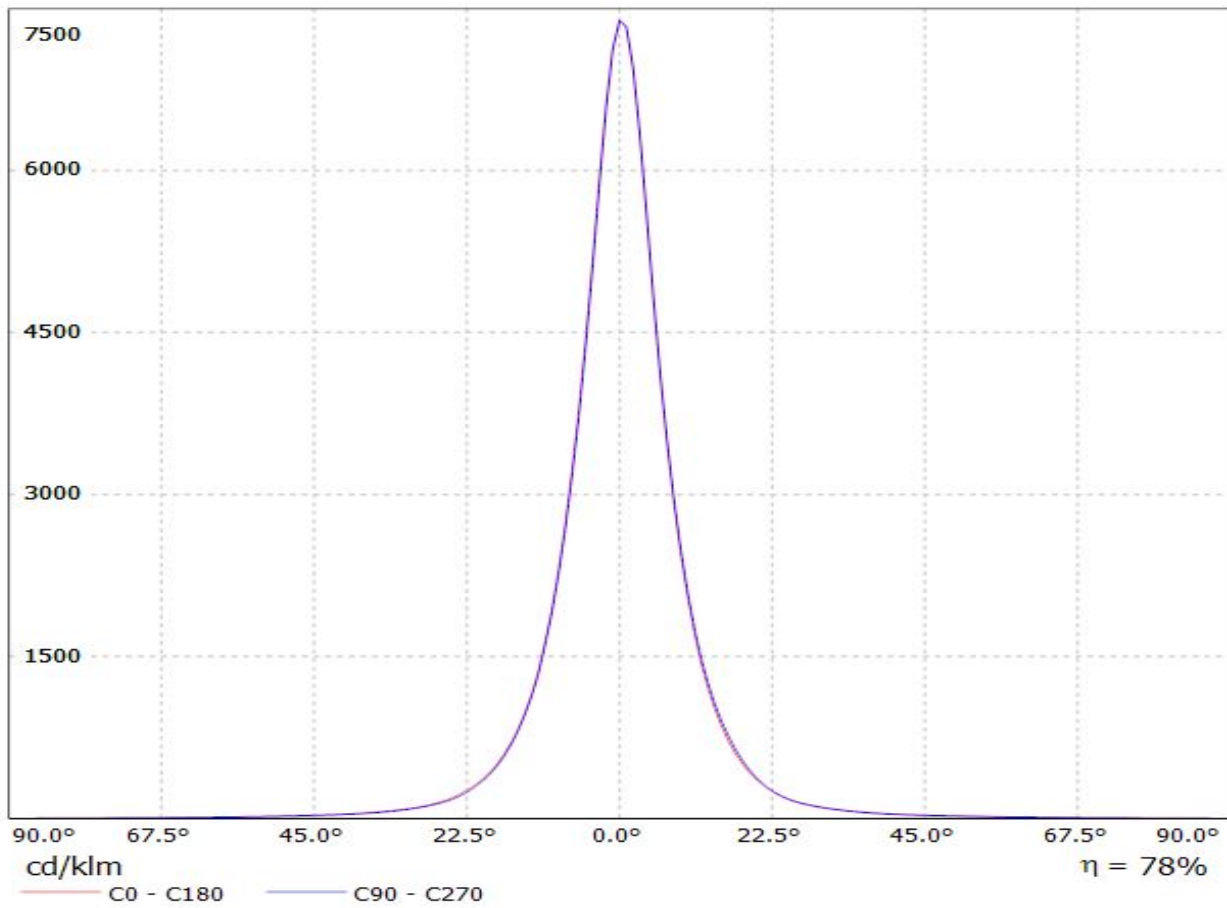


Luminaire: Ledil Oy CA14507\_G2-LXP2-D-P\_(XP-G3)\_SIMULATED  
Lamps: 1 x Cree XP-G3

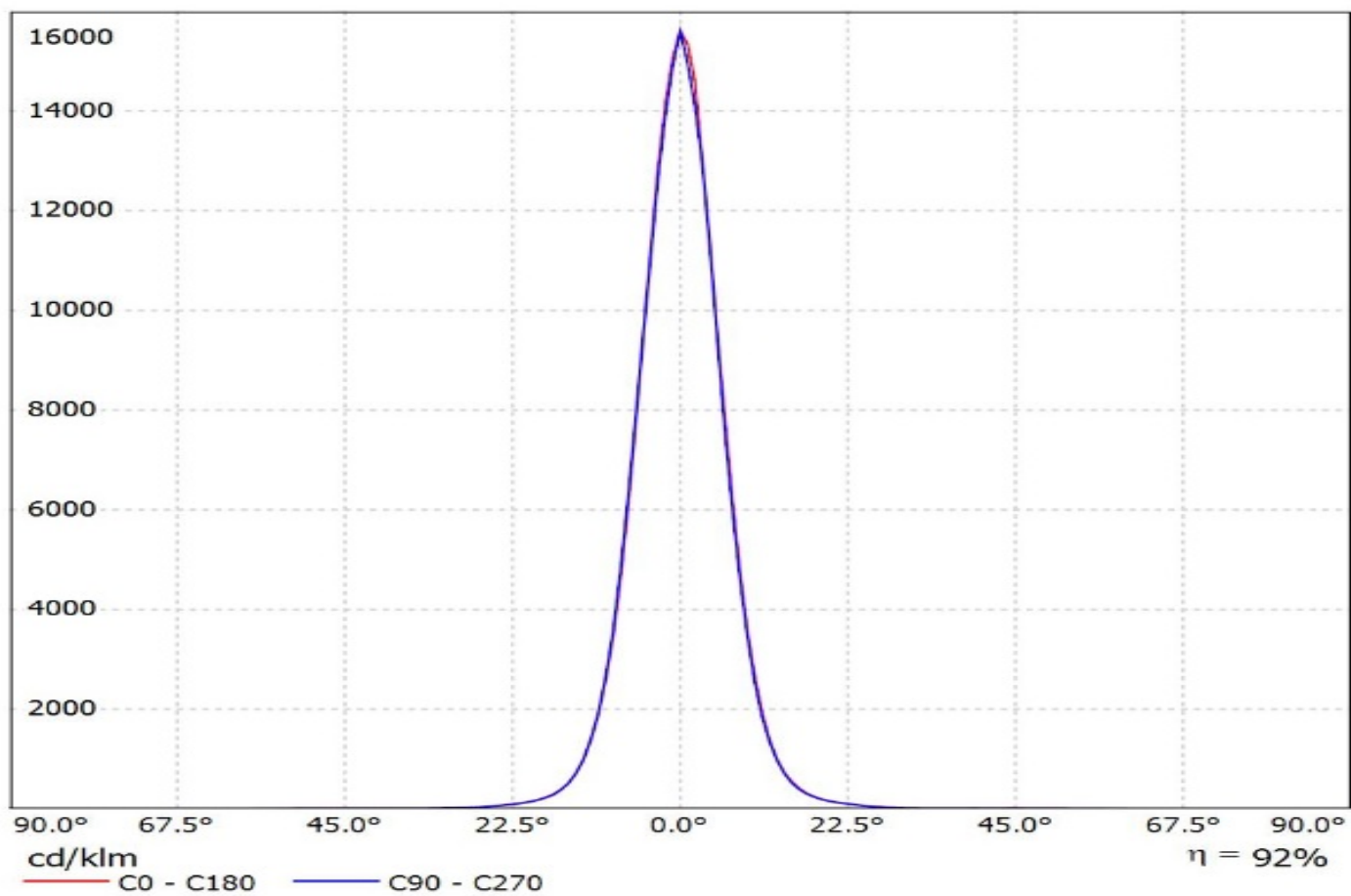


Luminaire: LEDiL Oy CA14507\_G2-LXP2-D-P\_(XD16)

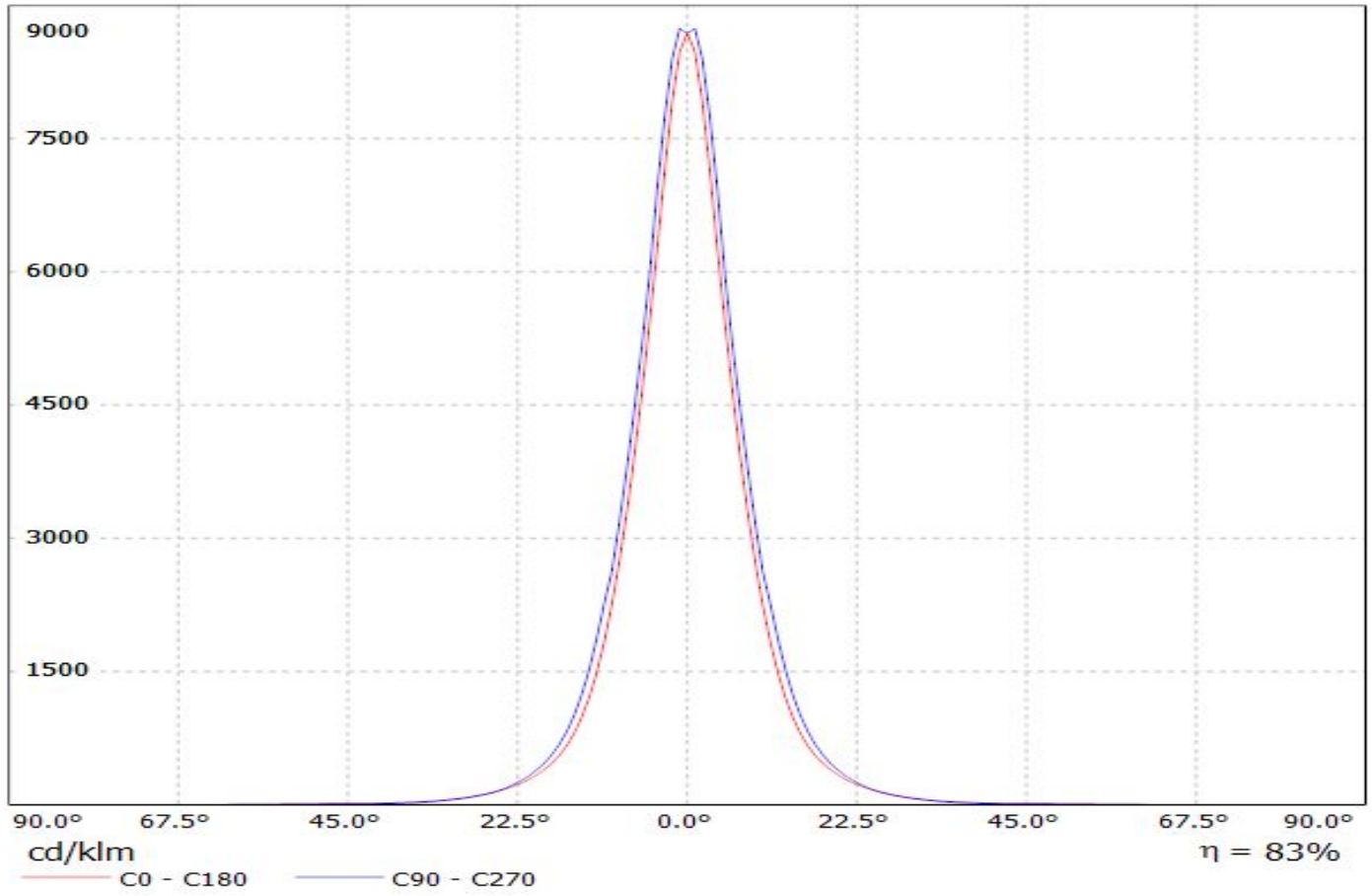
Lamps: 1 x Cree\_XD16\_(XD16AWT-H-2B0-S20-0B-002)\_115.272lm@250mA\_CCT=5700K\_P=0.707833W\_U=2.8336V



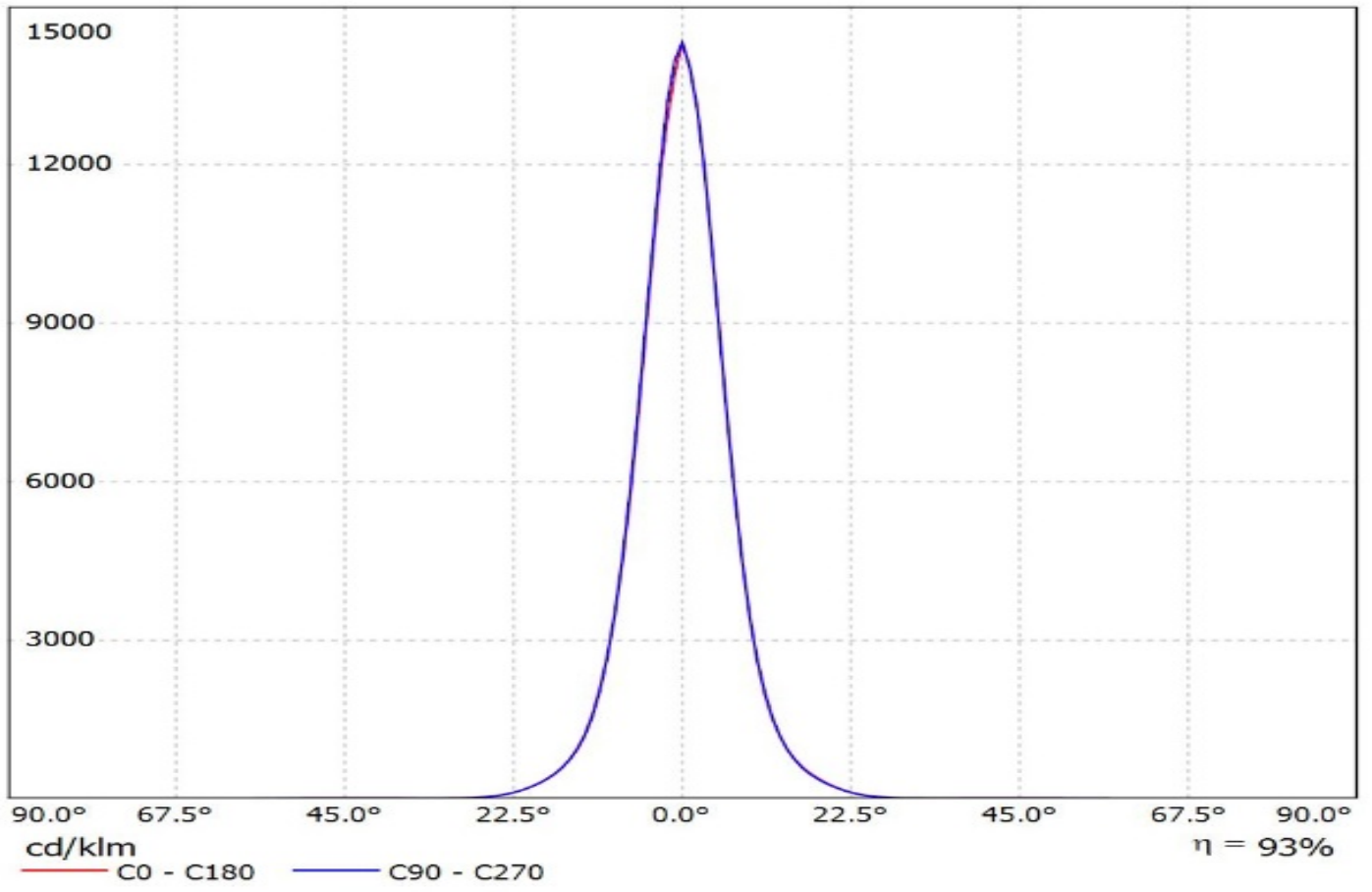
Luminaire: Ledil Oy CA14507\_G2-LXP2-D-P\_(LG\_H35C1)\_SIMULATED  
Lamps: 1 x LG H35C1



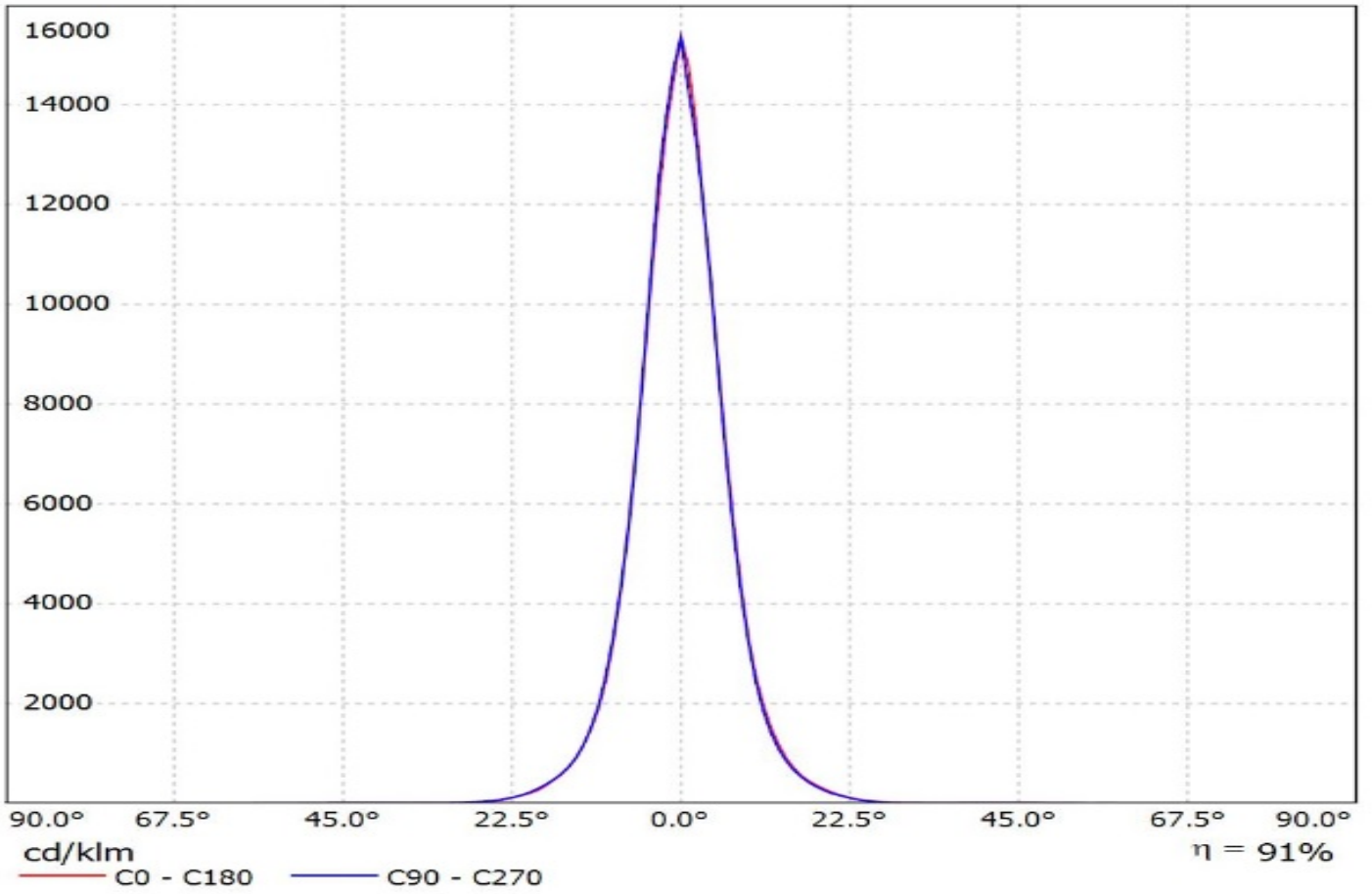
Luminaire: LEDiL Oy  
Lamps: 1 x CA14507\_G2-LXP2-D-P\_(LUXEON\_Z-ES)



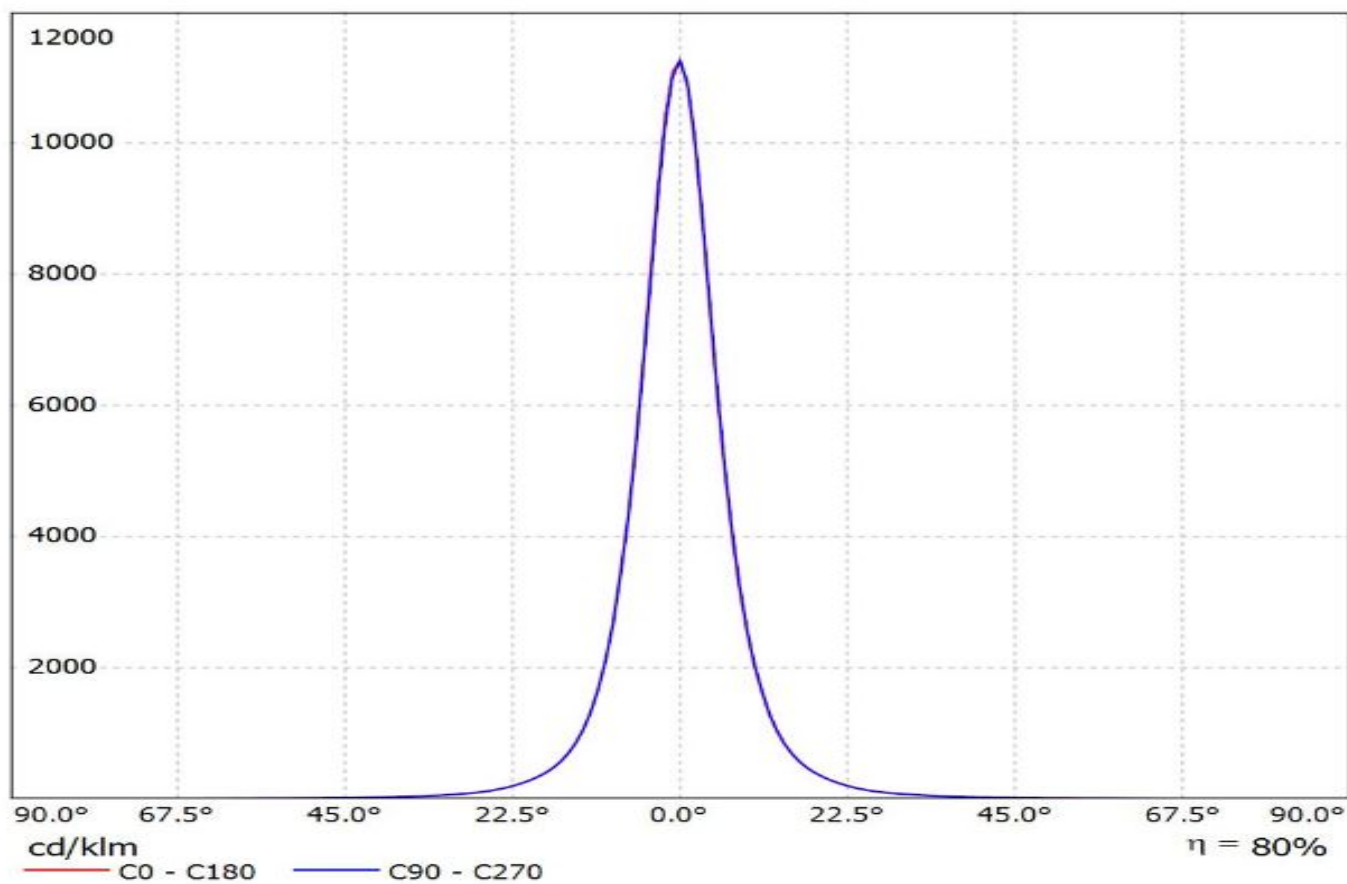
Luminaire: Ledil Oy CA14507\_G2-LXP2-D-P\_(Luxeon\_T)\_SIMULATED  
Lamps: 1 x Lumileds Luxeon T



Luminaire: Ledil Oy CA14507\_G2-LXP2-D-P\_(Luxeon\_TX)\_SIMULATED  
Lamps: 1 x Lumileds Luxeon TX

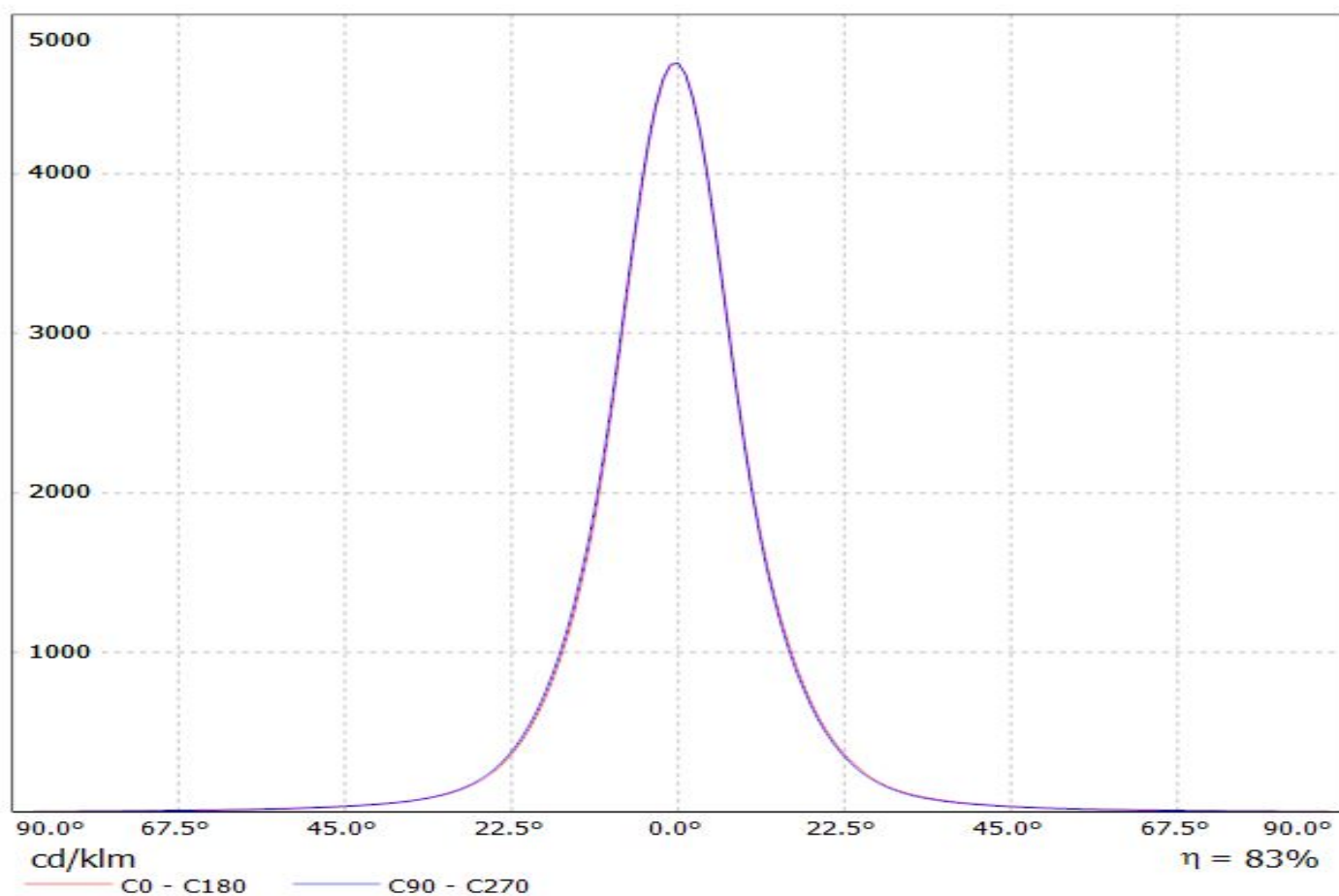


Luminaire: Ledil CA14507\_G2-LXP2-D-P\_(LUXEON\_C)  
Lamps: 1 x LUXEON\_C\_white\_85.7286lm@250mA\_P=0.7463W\_I=0.250A

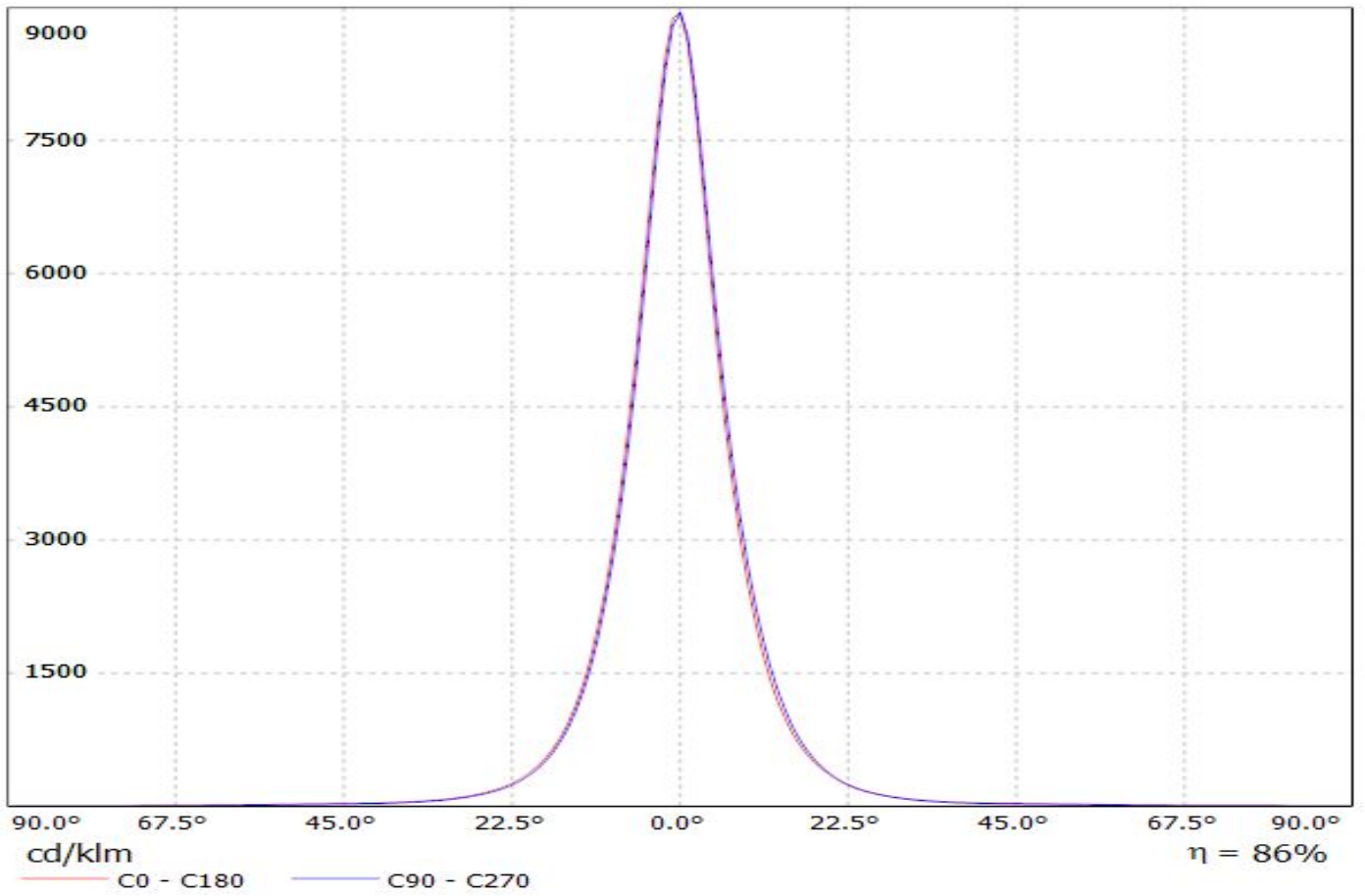


Luminaire: LEDiL Oy CA14507\_G2-LXP2-D-P\_(Luxeon\_V)

Lamps: 1 x Lumileds\_Luxeon\_V\_122.923lm@250mA\_CCT=4000K\_P=0.704836W\_I=0.25A

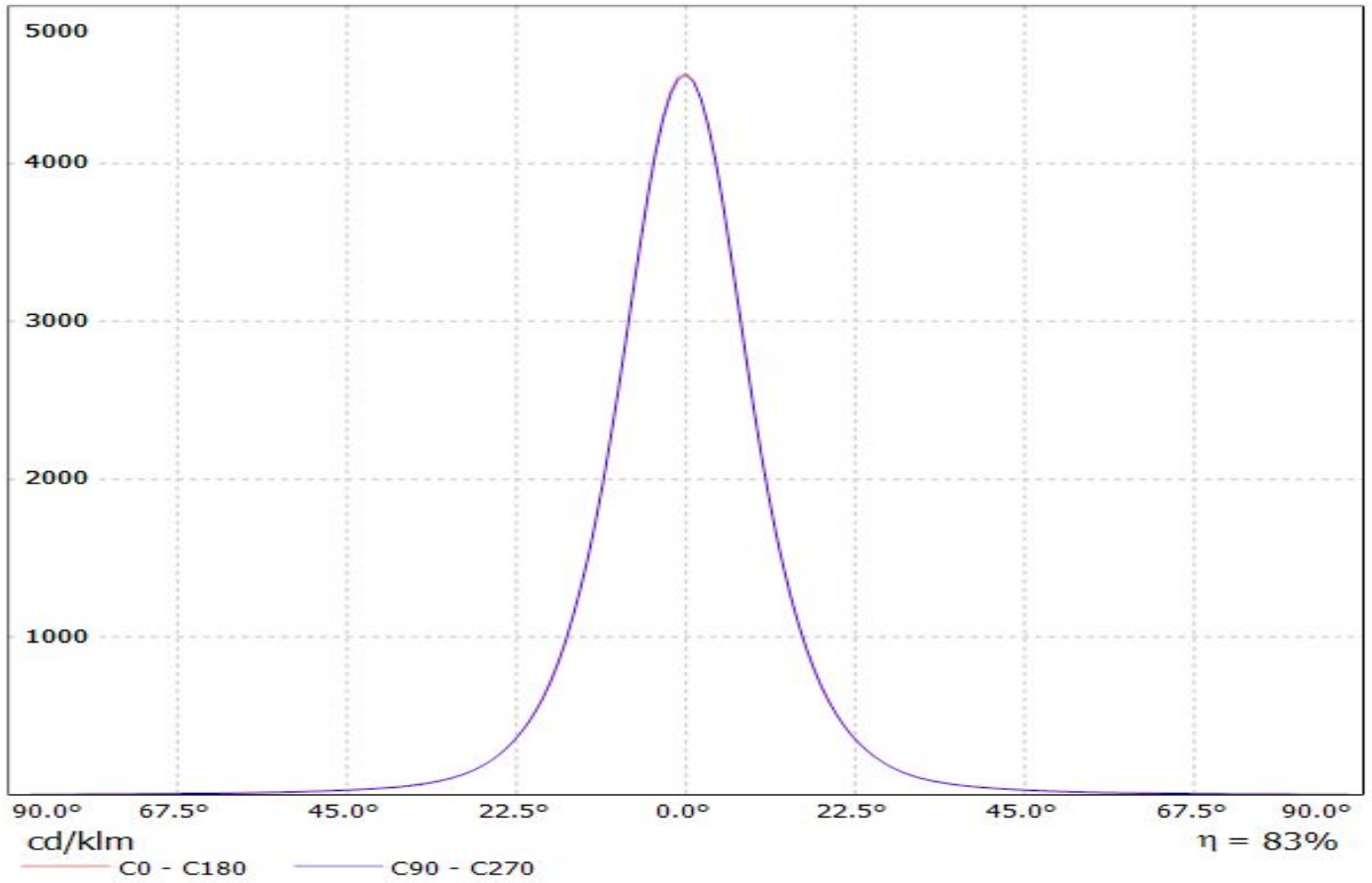


Luminaire: LEDiL Oy CA14507\_G2-LXP2-D-P\_(Nichia\_NCSxx19A)  
Lamps: 1 x Nichia\_NCSxx19A\_66.5093lm@250mA\_P=0.78701W\_I=0.2499A

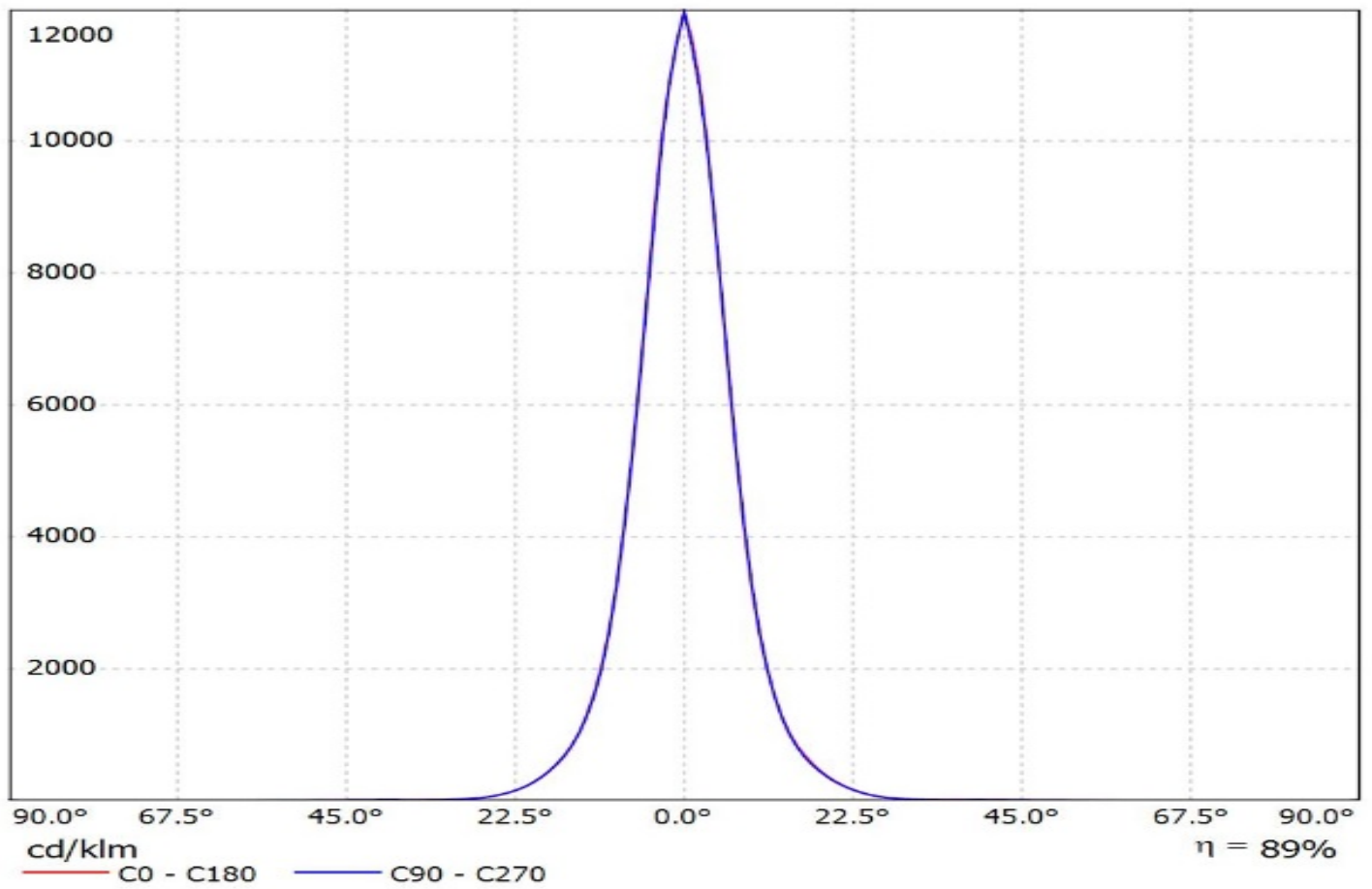


Luminaire: LEDiL Oy CA14507\_G2-LXP2-D\_(NWSL229AE)

Lamps: 1 x Nichia\_NWSL229AE\_120.54lm@250mA\_P=0.7128W\_I=0.250A

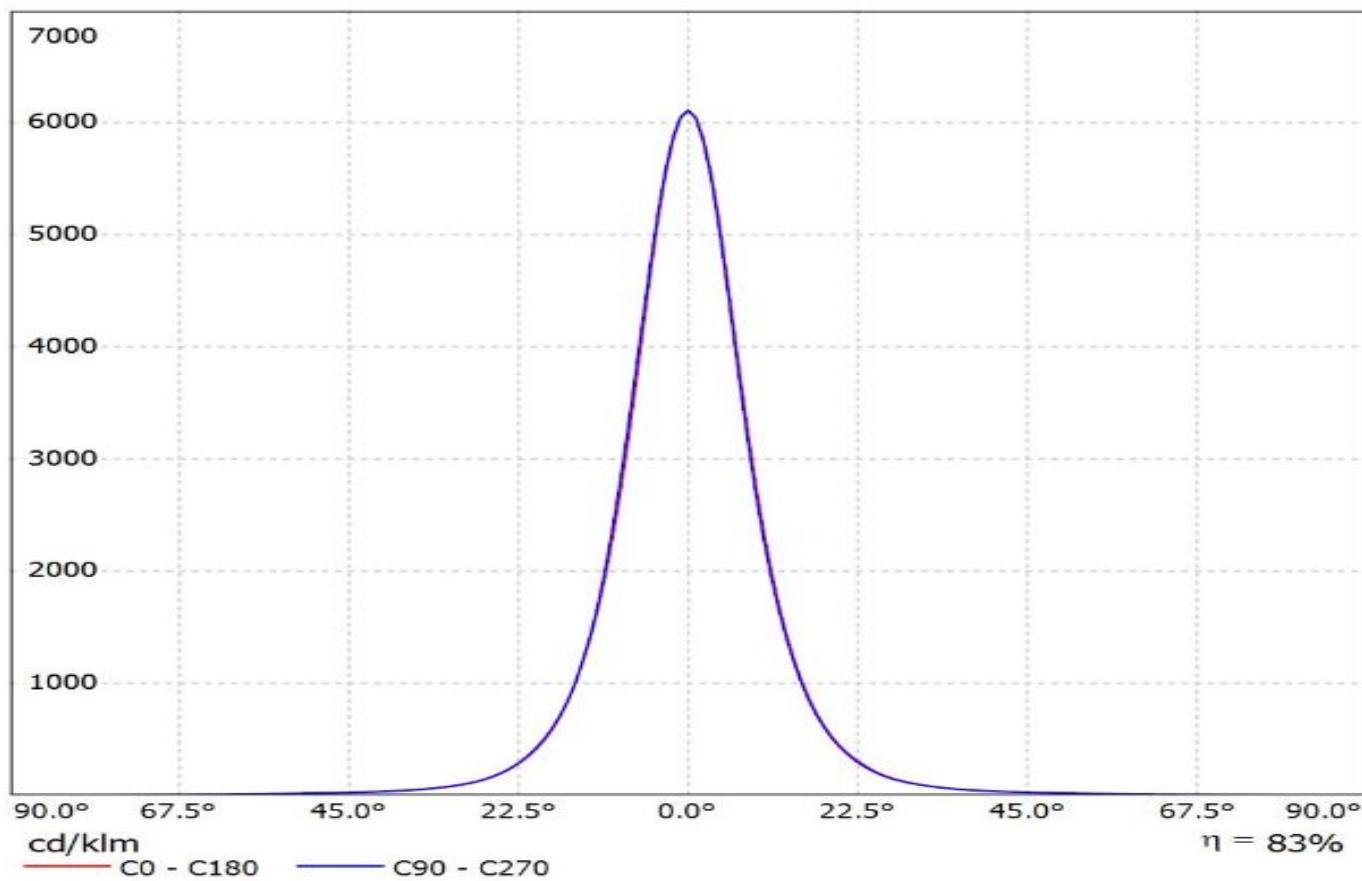


Luminaire: Ledil Oy CA14507\_G2-LXP2-D-P\_(NVSxx19B)\_SIMULATED  
Lamps: 1 x Nichia NVSxx19V (NVSW219B)

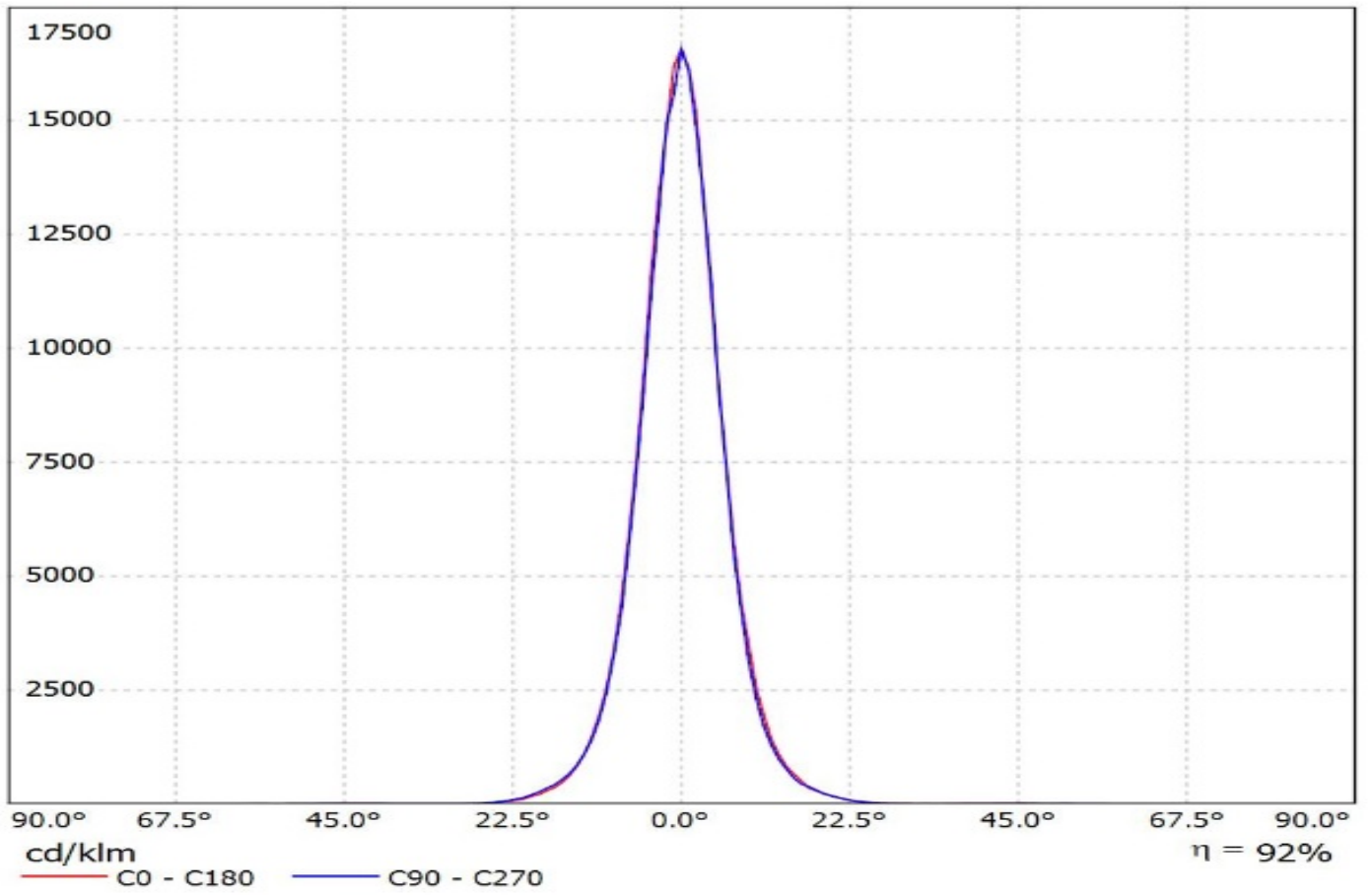


Luminaire: LEDiL Oy CA14507\_G2-LXP2-D-P\_(NVSW3x9A)

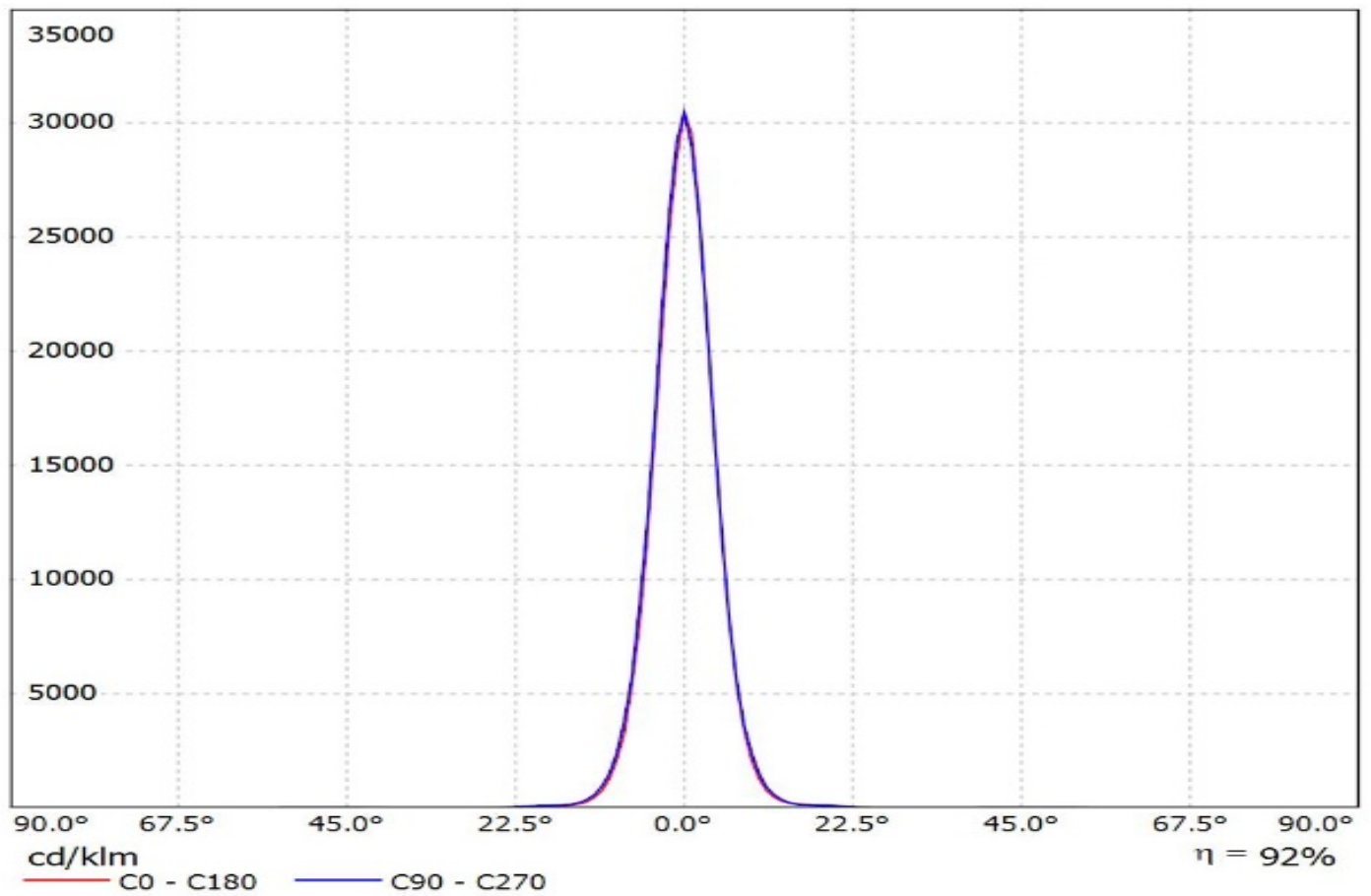
Lamps: 1 x Nichia\_NVSW3x9A\_(sm405/R70)\_122.334lm@250mA\_P=0.705435W\_I=0.250A



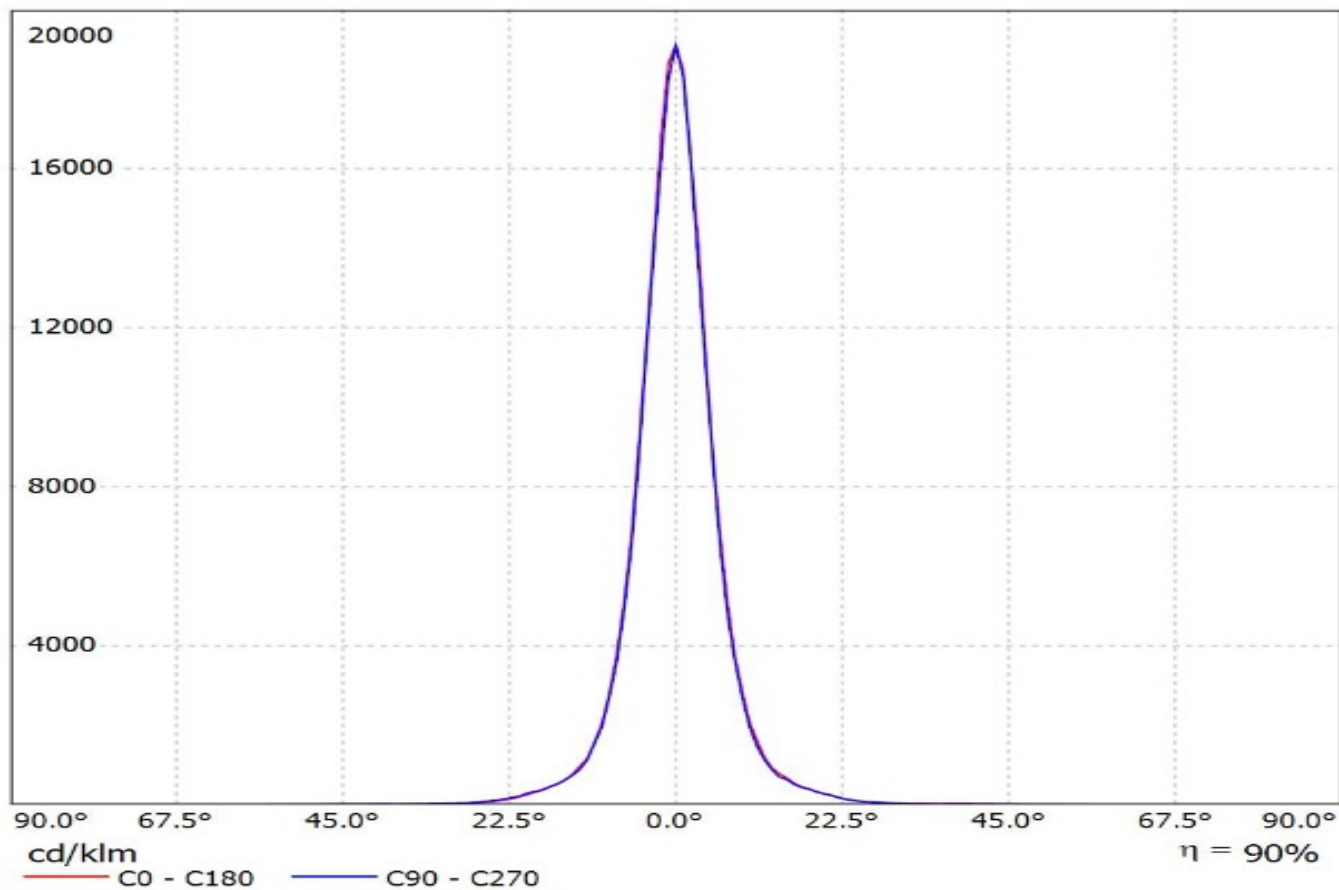
Luminaire: Ledil Oy CA14507\_G2-LXP2-D-P\_(Oslon\_Square\_Gen3)\_SIMULATED  
Lamps: 1 x Osram Oslon Square Gen 3 (GW\_CSSRM2.PC)



Luminaire: Ledil Oy CA14507\_G2-LXP2-D-P\_(Oslon\_SSL\_80)\_SIMULATED  
Lamps: 1 x Osram Oslon SSL 80 (LA CP7P)

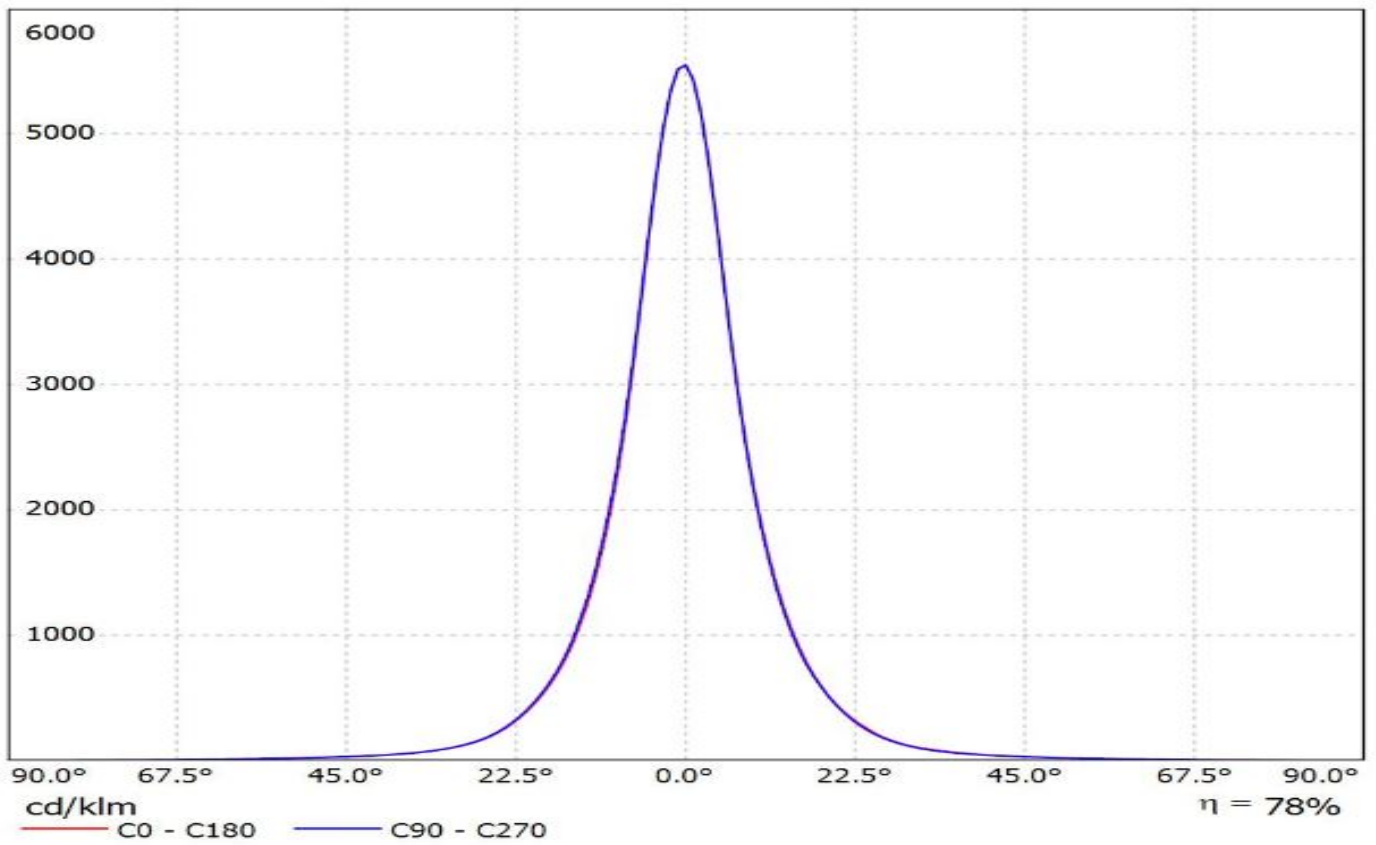


Luminaire: Ledil Oy CA14507\_G2-LXP2-D-P\_(OSRAM\_OSLON\_SQUARE\_FLAT)\_SIMULATED  
Lamps: 1 x OSRAM\_OSLON\_SQUARE\_FLAT

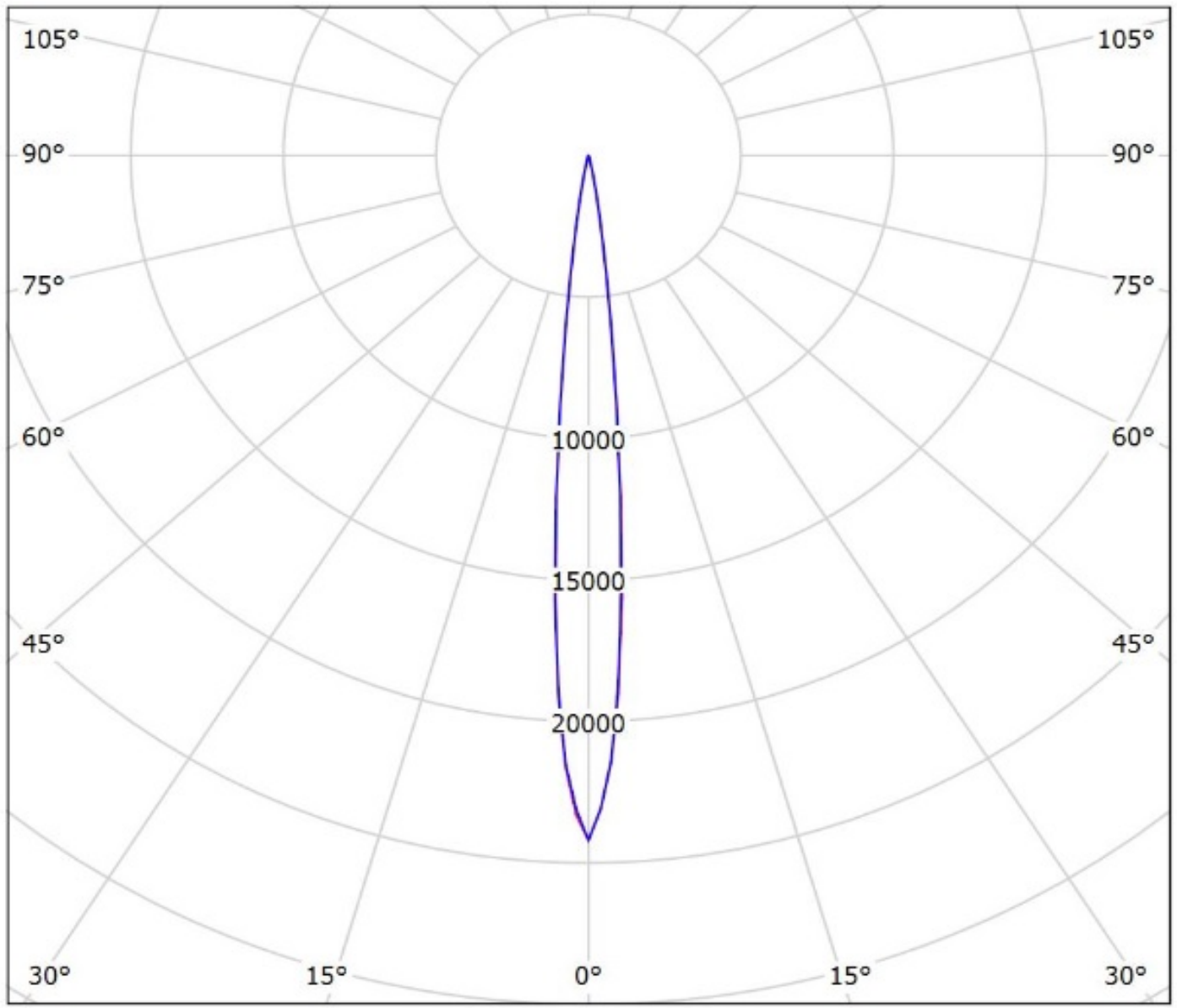


Luminaire: LEDiL Oy CA14507\_G2-LXP2-D-P\_(Z8Y22plus)

Lamps: 1 x Seoul\_Z8Y22plus\_(W6E2G)\_125.652lm@250mA\_P=0.69312W\_I=0.250A



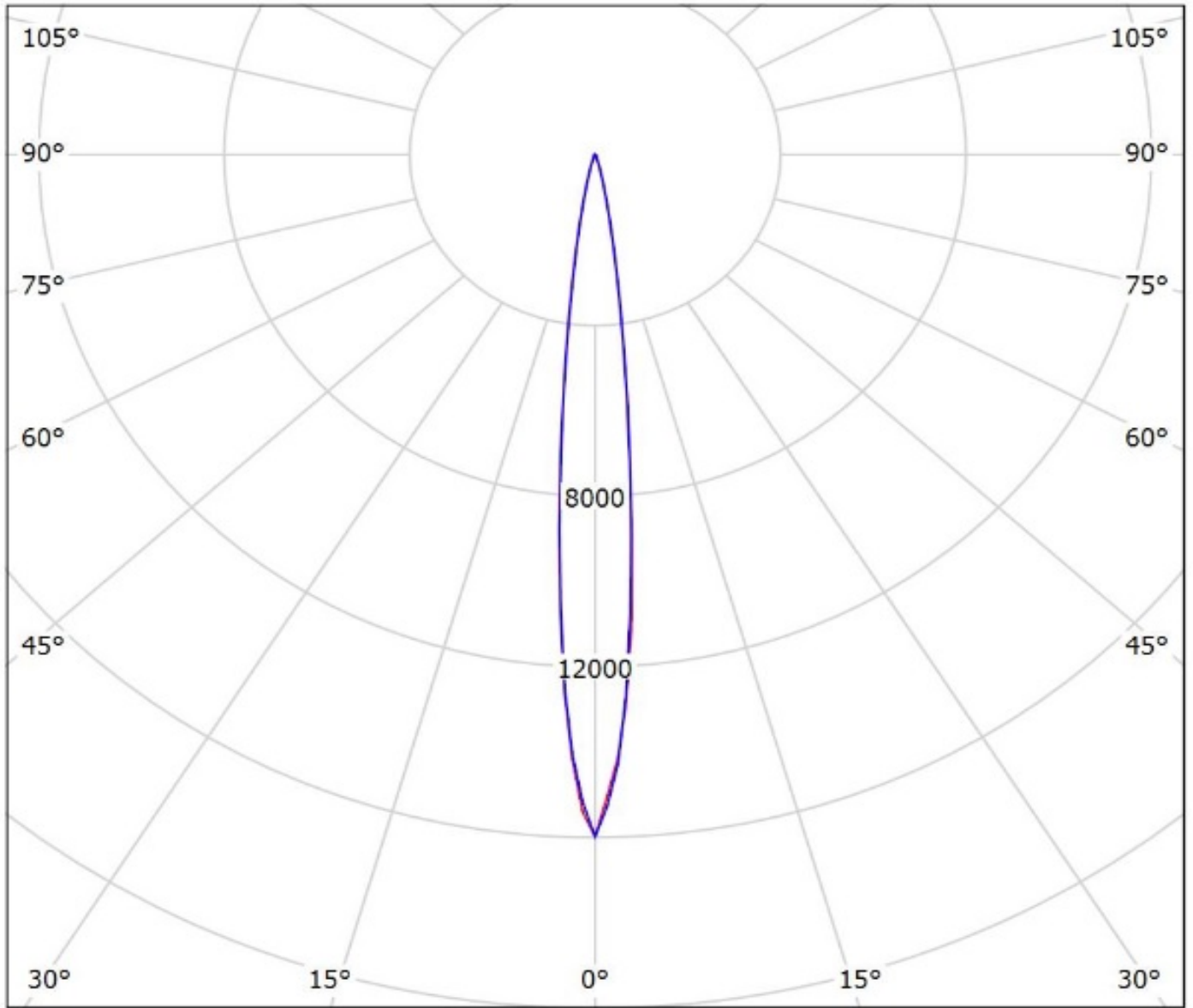
Luminaire: Ledil Oy CA14507\_G2-LXP2-D-P\_XP-G2\_SIMULATED  
Lamps: 1 x CREE XP-G2



cd/klm  
— C0 - C180 — C90 - C270

$\eta = 93\%$

Luminaire: Ledil Oy CA14507\_G2-LXP2-D-P\_(XT-E)\_SIMULATED  
Lamps: 1 x Cree XT-E

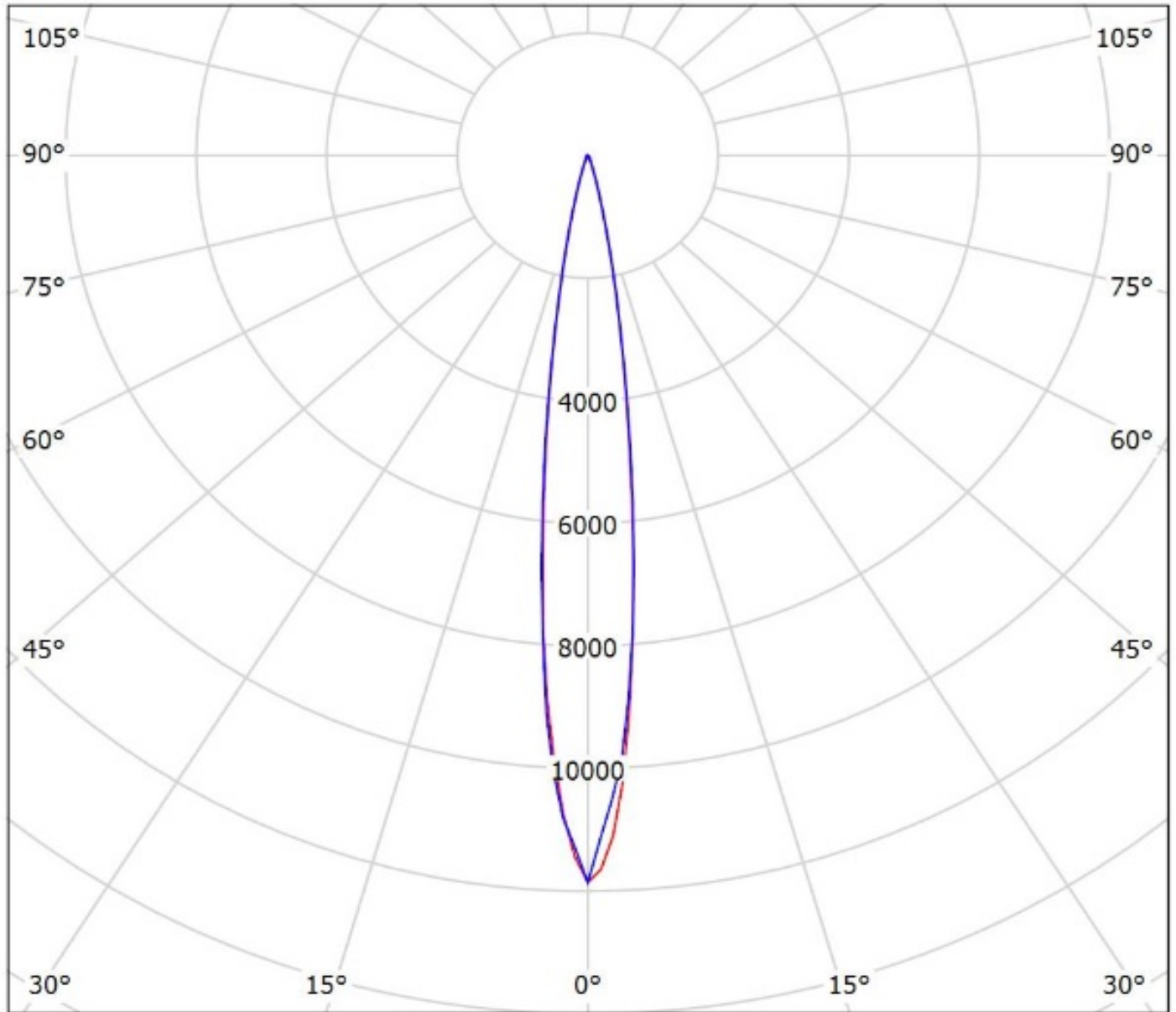


cd/klm  
— C0 - C180 — C90 - C270

$\eta = 90\%$

Luminaire: Ledil Oy CA14507\_G2-LXP2-D-P\_(XP-G3)\_SIMULATED

Lamps: 1 x Cree XP-G3



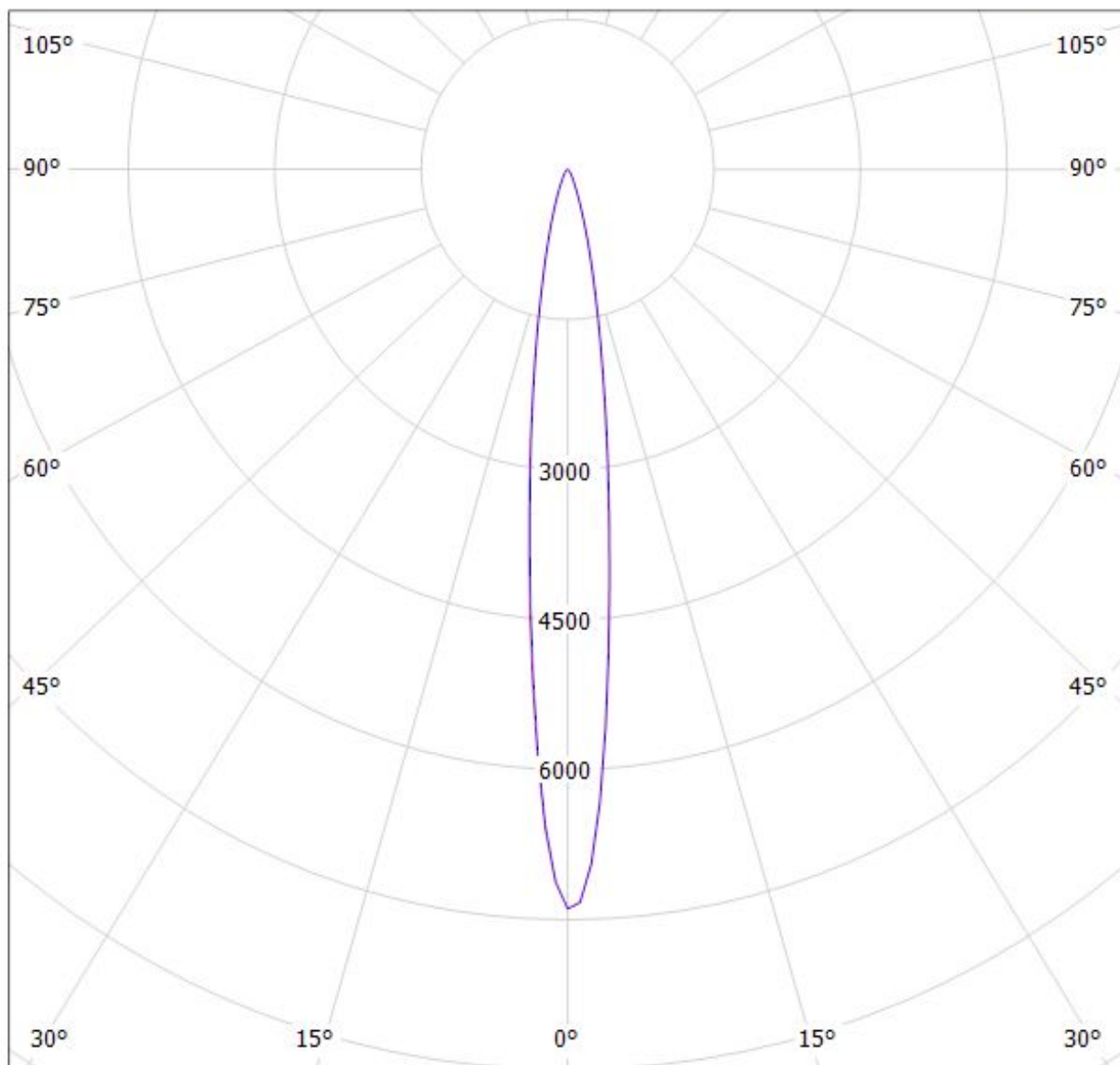
cd/klm

— C0 - C180    — C90 - C270

$\eta = 91\%$

Luminaire: LEDiL Oy CA14507\_G2-LXP2-D-P\_(XD16)

Lamps: 1 x Cree\_XD16\_(XD16AWT-H-2B0-S20-0B-002)\_115.272lm@250mA\_CCT=5700K\_P=0.707833W\_U=2.8336V



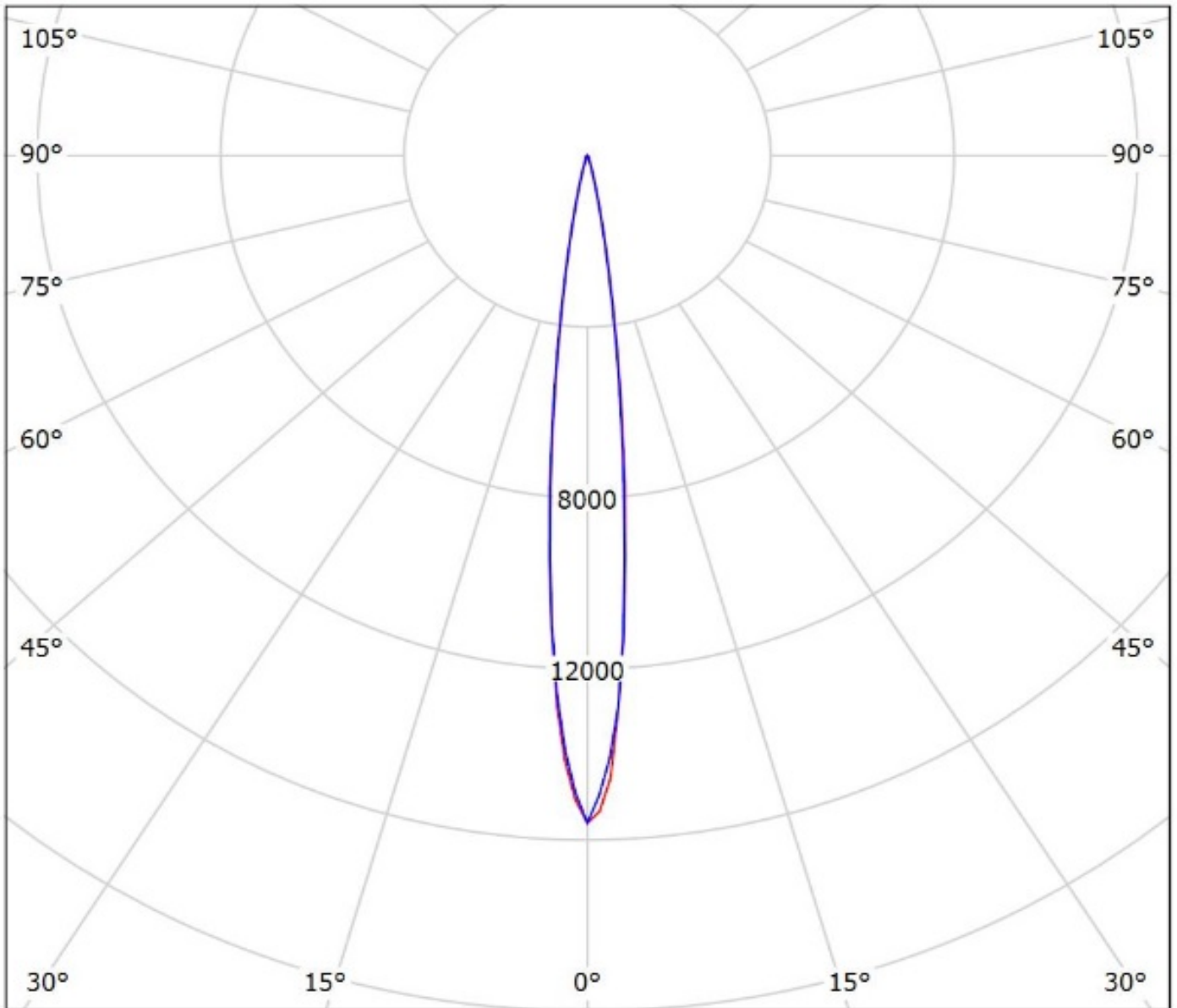
cd/klm

— C0 - C180

— C90 - C270

$\eta = 78\%$

Luminaire: Ledil Oy CA14507\_G2-LXP2-D-P\_(LG\_H35C1)\_SIMULATED  
Lamps: 1 x LG H35C1

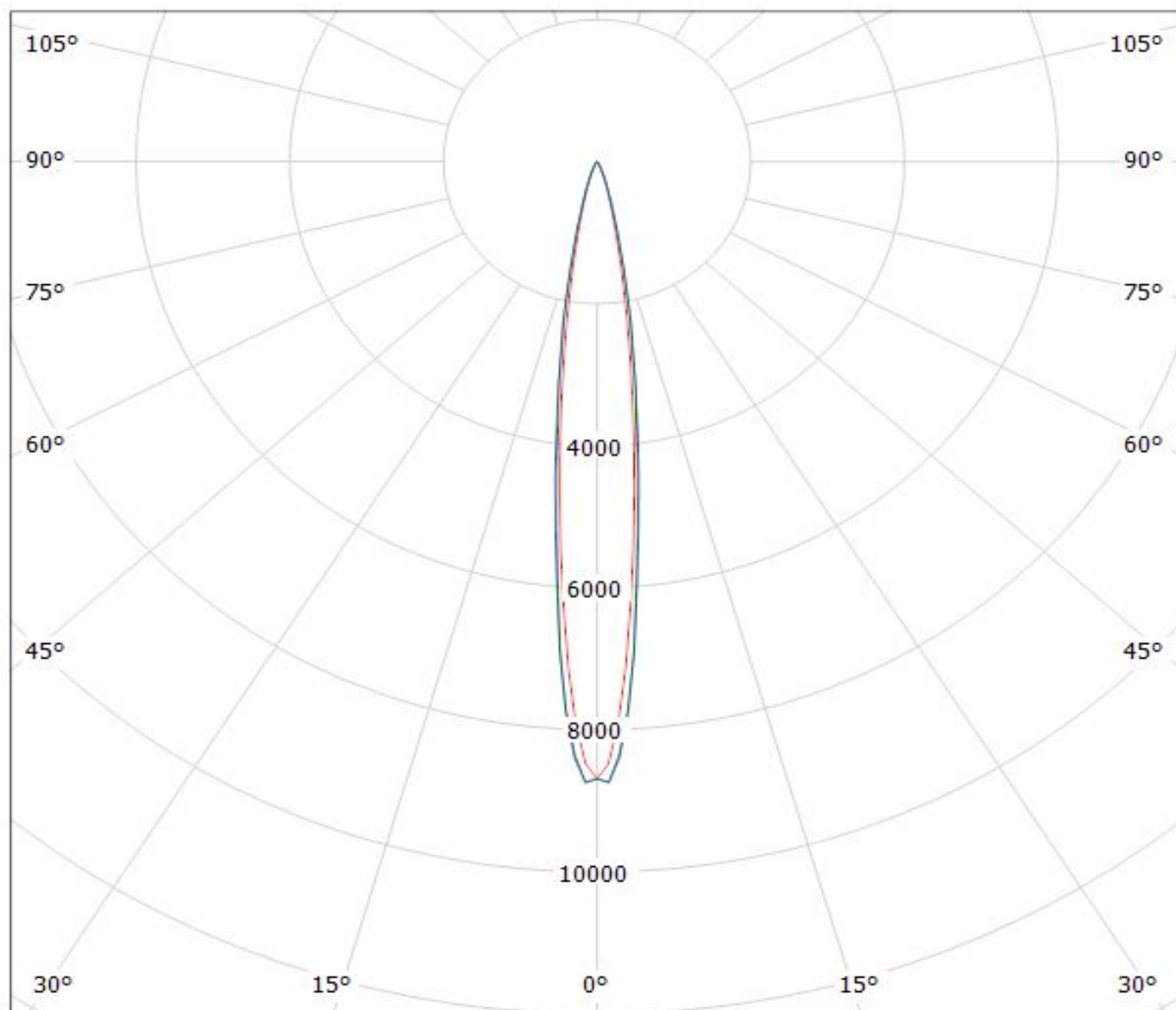


cd/klm

— C0 - C180 — C90 - C270

$\eta = 92\%$

Luminaire: LEDiL Oy  
Lamps: 1 x CA14507\_G2-LXP2-D-P\_(LUXEON\_Z-ES)



cd/klm

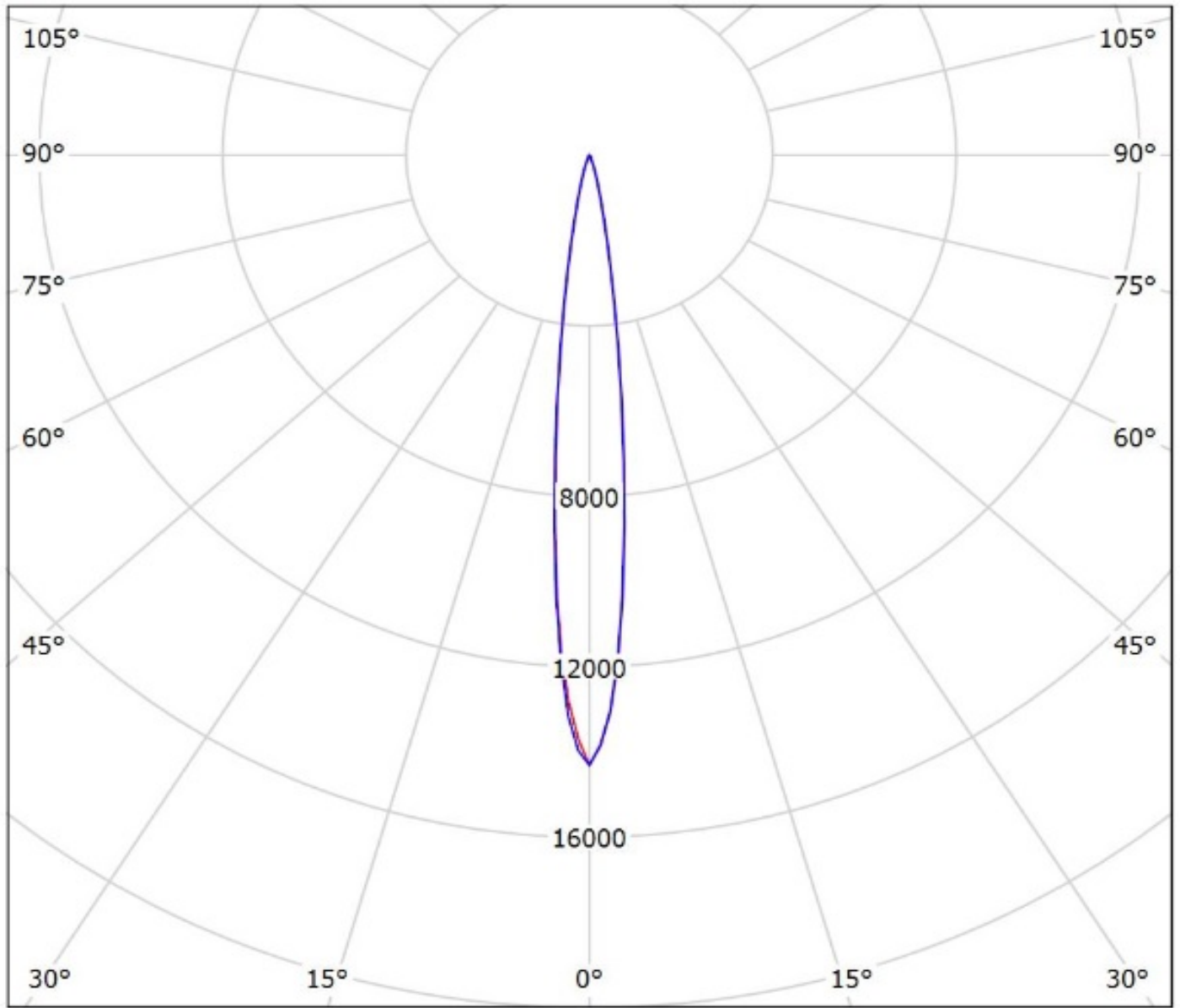
η = 83%

— C0 - C180

— C90 - C270

— C76 - C256

Luminaire: Ledil Oy CA14507\_G2-LXP2-D-P\_(Luxeon\_T)\_SIMULATED  
Lamps: 1 x Lumileds Luxeon T

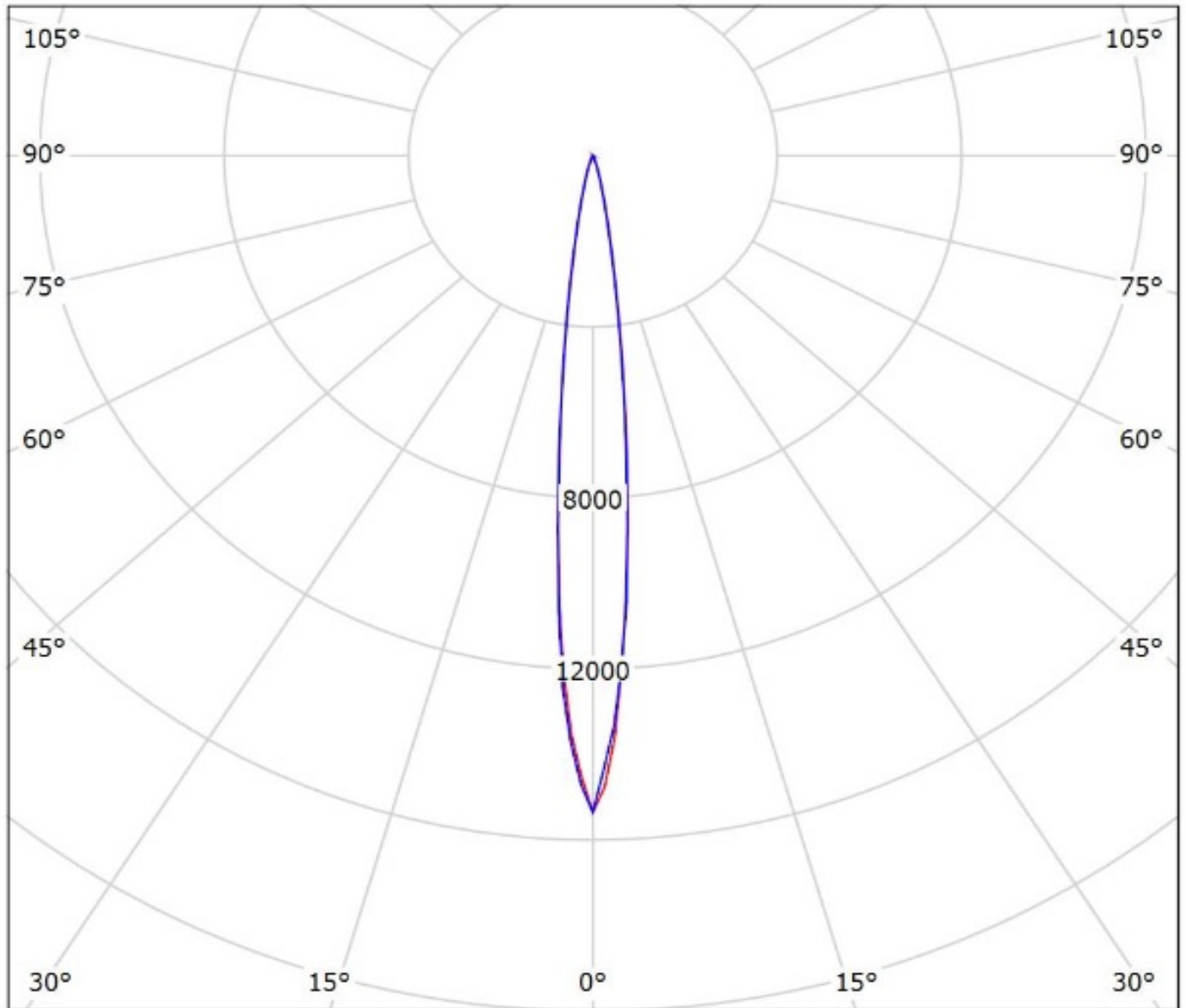


cd/klm

— C0 - C180 — C90 - C270

$\eta = 93\%$

Luminaire: Ledil Oy CA14507\_G2-LXP2-D-P\_(Luxeon\_TX)\_SIMULATED  
Lamps: 1 x Lumileds Luxeon TX



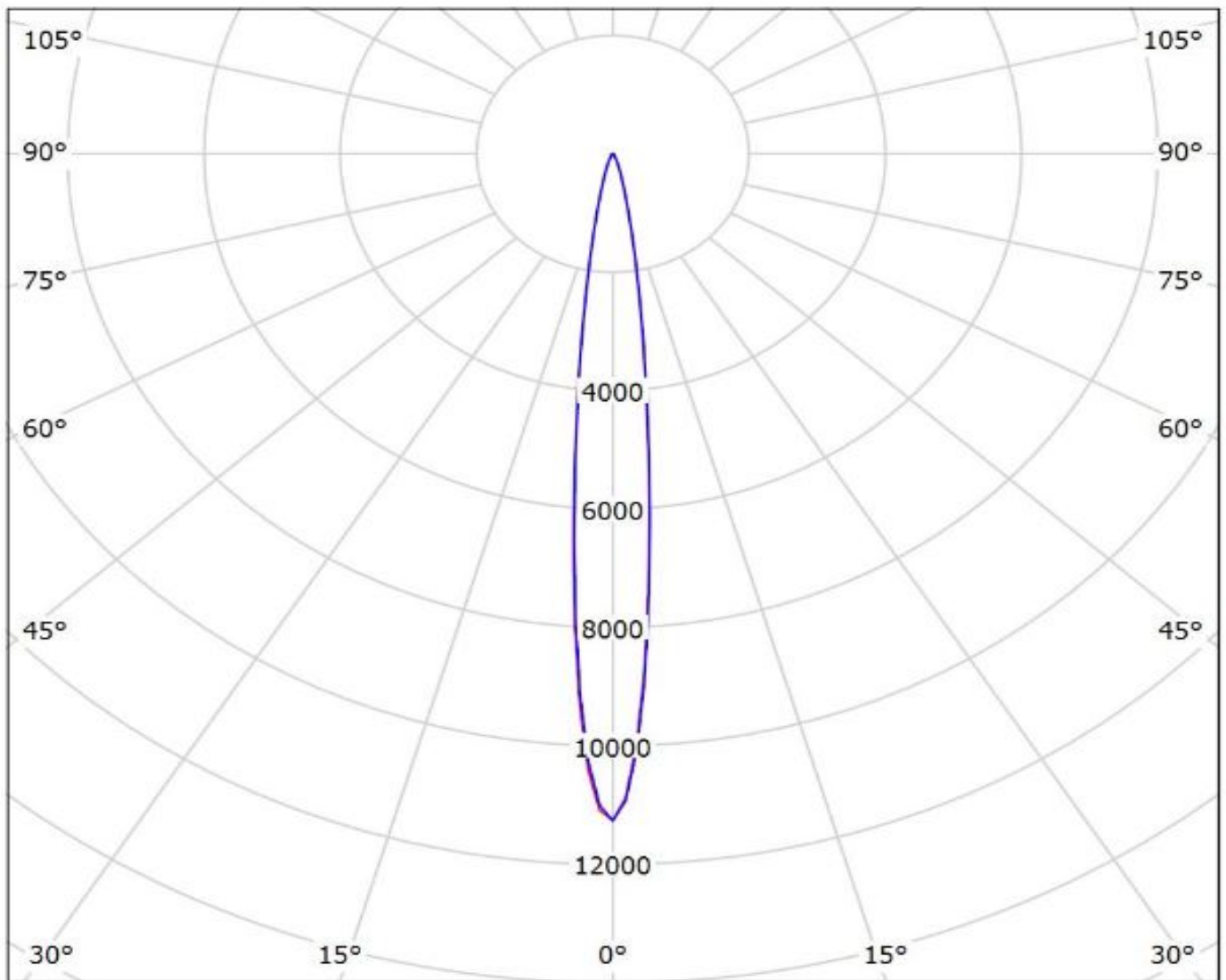
cd/klm

— C0 - C180 — C90 - C270

$\eta = 91\%$

Luminaire: Ledil CA14507\_G2-LXP2-D-P\_(LUXEON\_C)

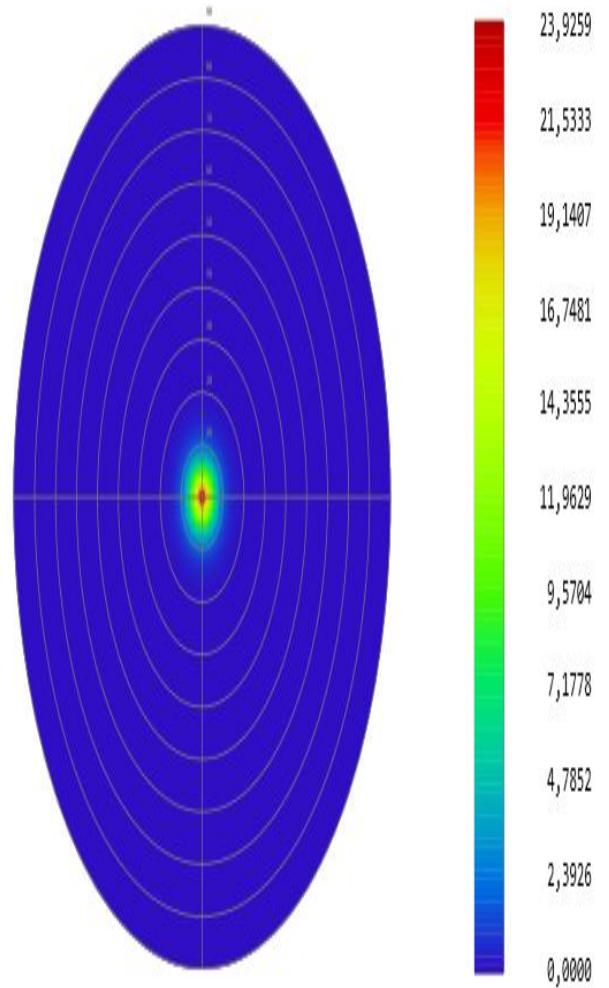
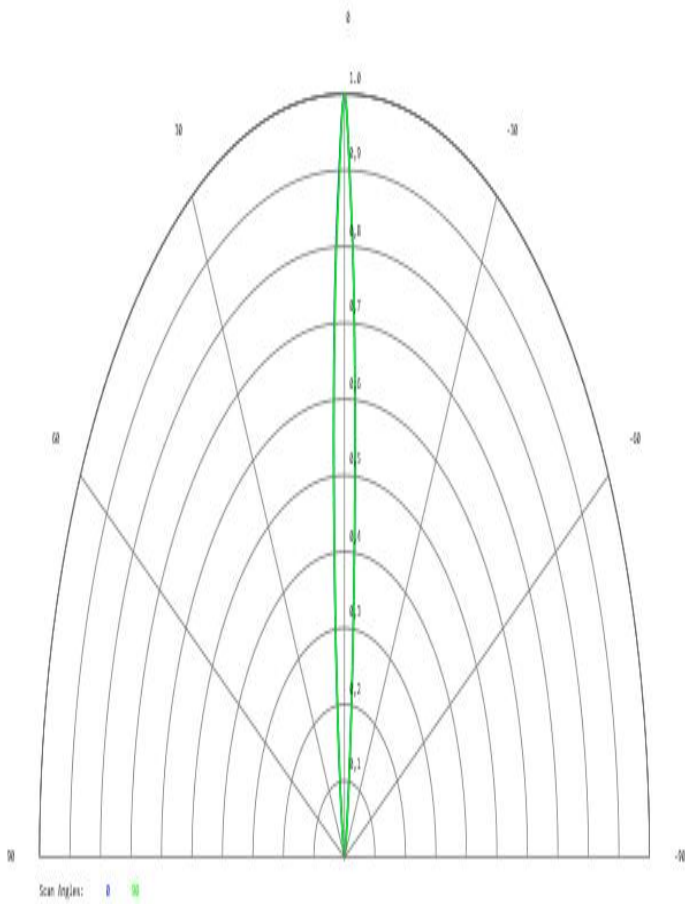
Lamps: 1 x LUXEON\_C\_white\_85.7286lm@250mA\_P=0.7463W\_I=0.250A



cd/klm

— C0 - C180 — C90 - C270

$\eta = 80\%$



Detector Image: Radiant Intensity

16.5.2017  
 Detector 5, NSCG Surface 1:  
 Scan Angles: 0, 90  
 Peak Intensity : 2,803E+01 Watts/Steradian

Zemax  
 Zemax OpticStudio 15.5 SP2  
 Luxeon IR compact.zmx  
 Configuration 1 of 1

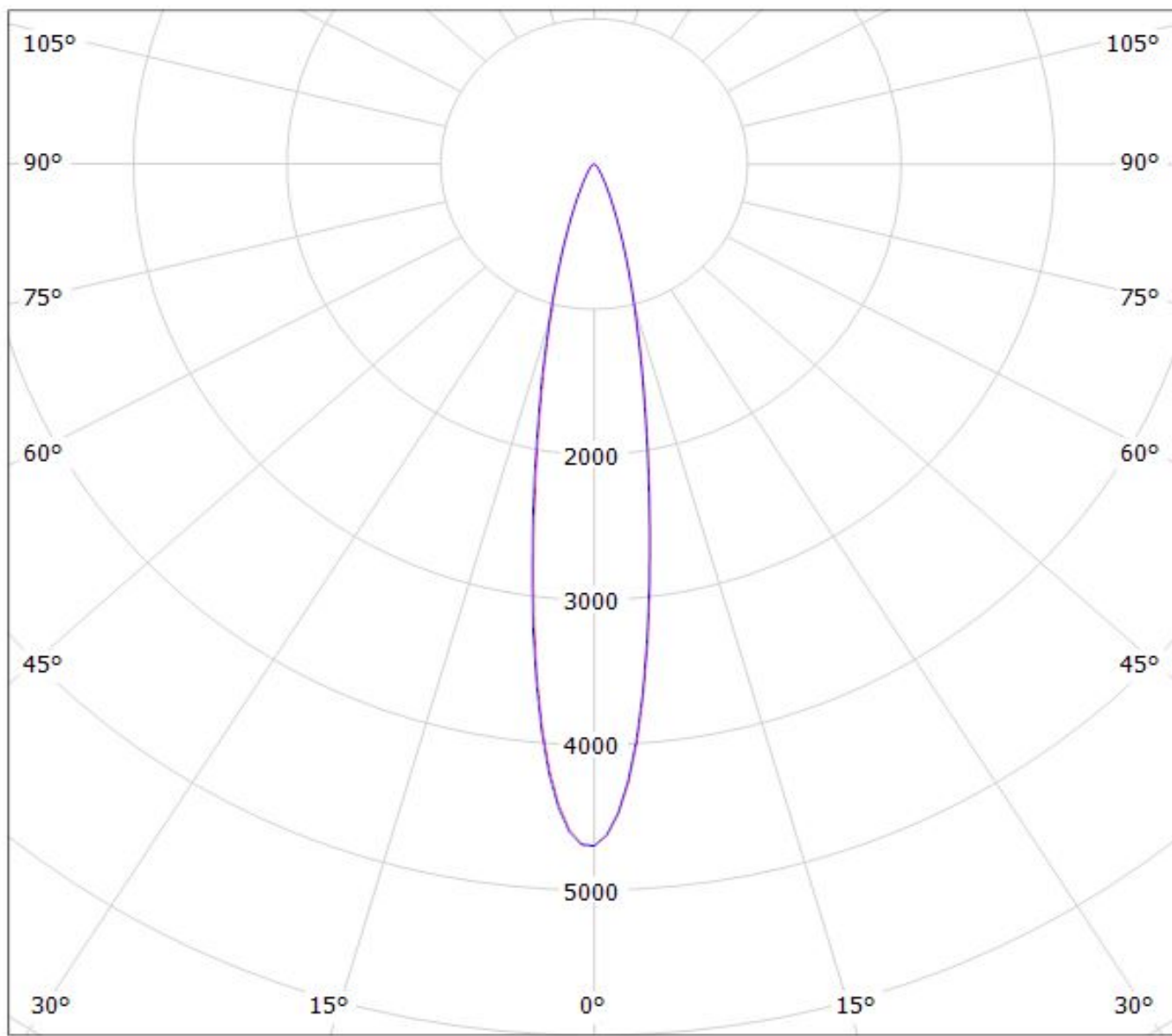
Detector Image: Radiant Intensity

16.5.2017  
 Detector 5, NSCG Surface 1:  
 Max polar angle: 90,00 deg, Total Hits = 2307934  
 Peak Intensity : 2,393E+01 Watts/Steradian  
 Total Power : 8,414E-01 Watts

Zemax  
 Zemax OpticStudio 15.5 SP2  
 Luxeon IR compact.zmx  
 Configuration 1 of 1

Luminaire: LEDiL Oy CA14507\_G2-LXP2-D-P\_(Luxeon\_V)

Lamps: 1 x Lumileds\_Luxeon\_V\_122.923lm@250mA\_CCT=4000K\_P=0.704836W\_I=0.25A



cd/klm

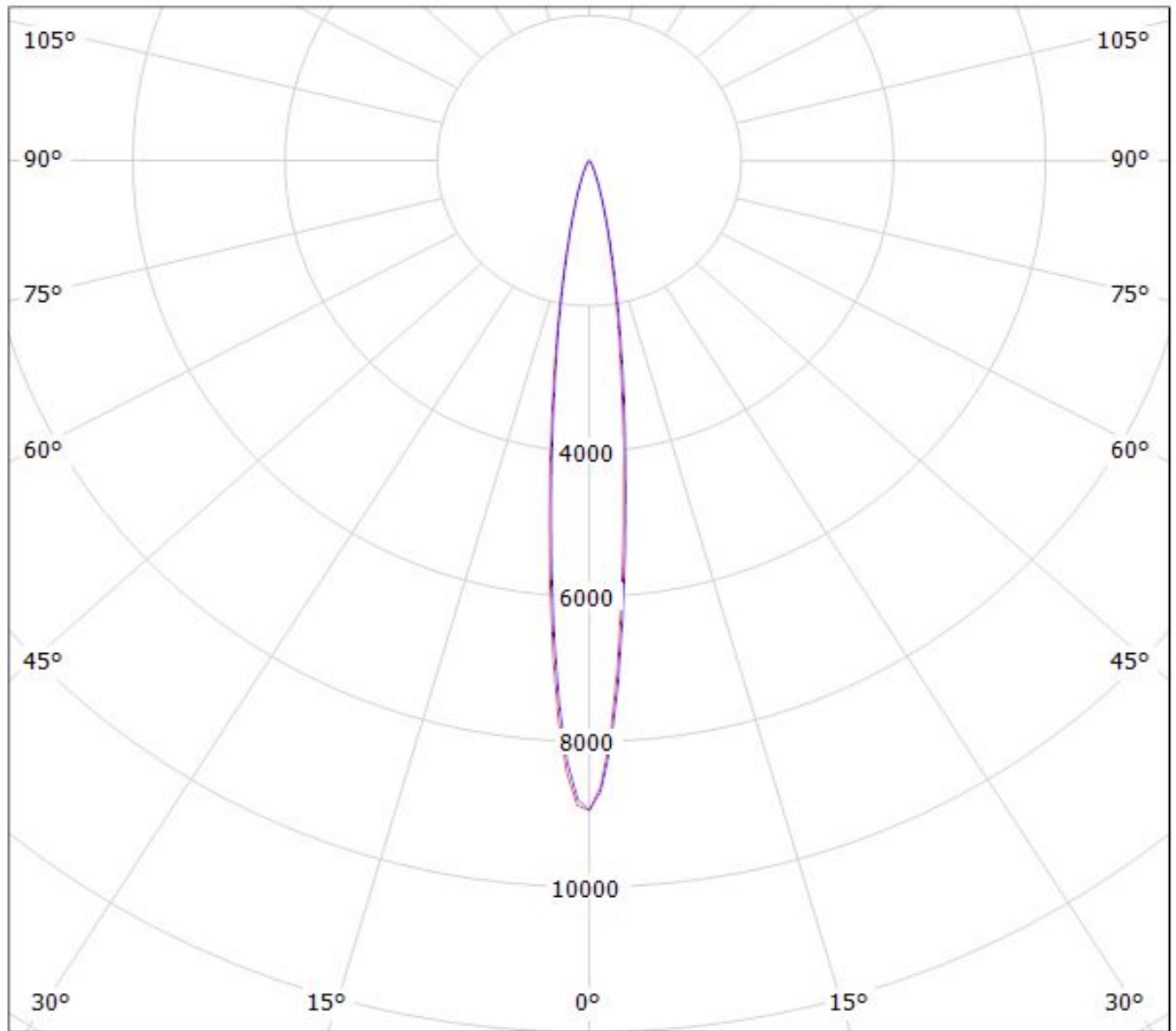
$\eta = 83\%$

— C0 - C180

— C90 - C270

Luminaire: LEDiL Oy CA14507\_G2-LXP2-D-P\_(Nichia\_NCSxx19A)

Lamps: 1 x Nichia\_NCSxx19A\_66.5093lm@250mA\_P=0.78701W\_I=0.2499A



cd/klm

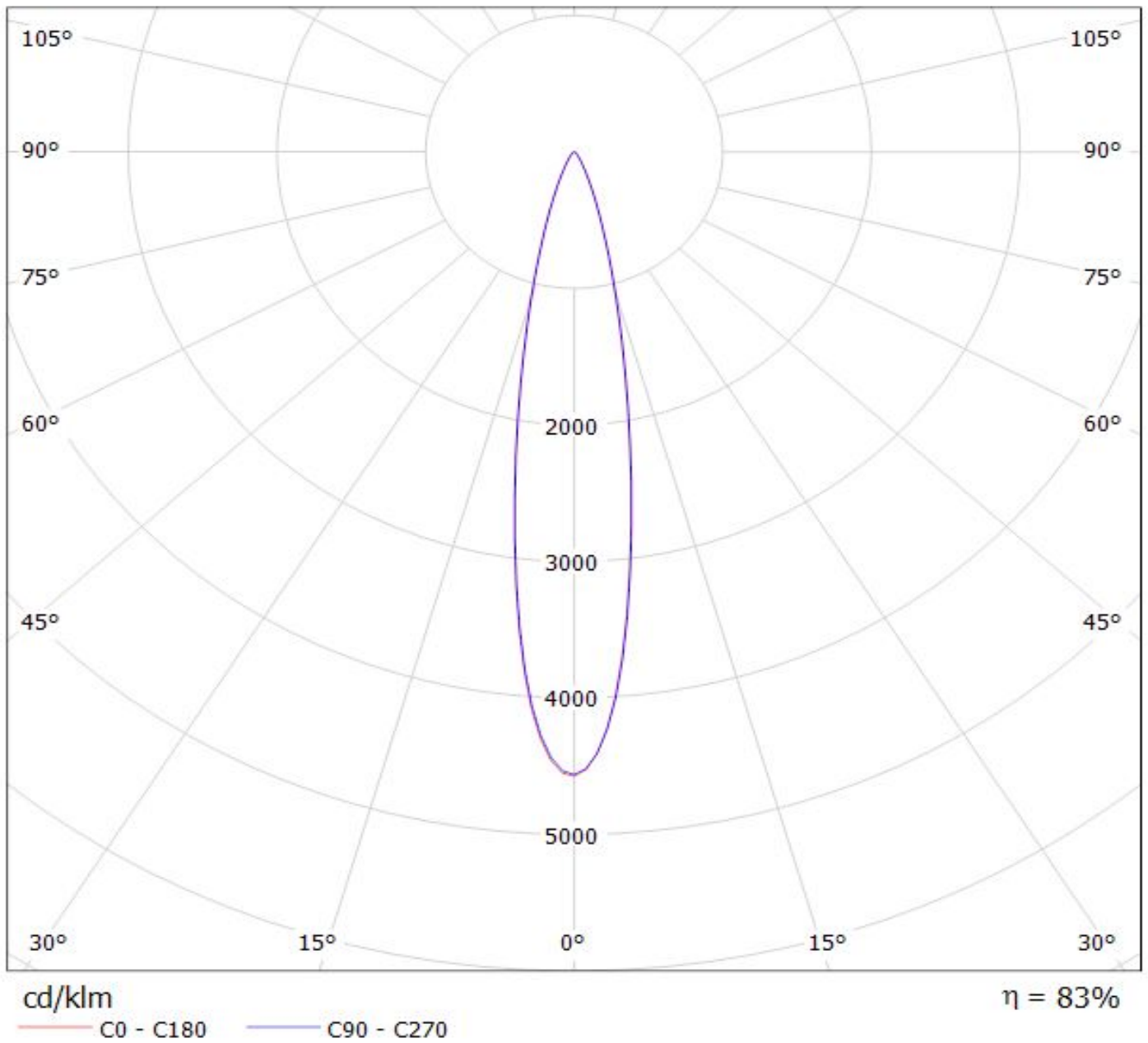
— C0 - C180

— C90 - C270

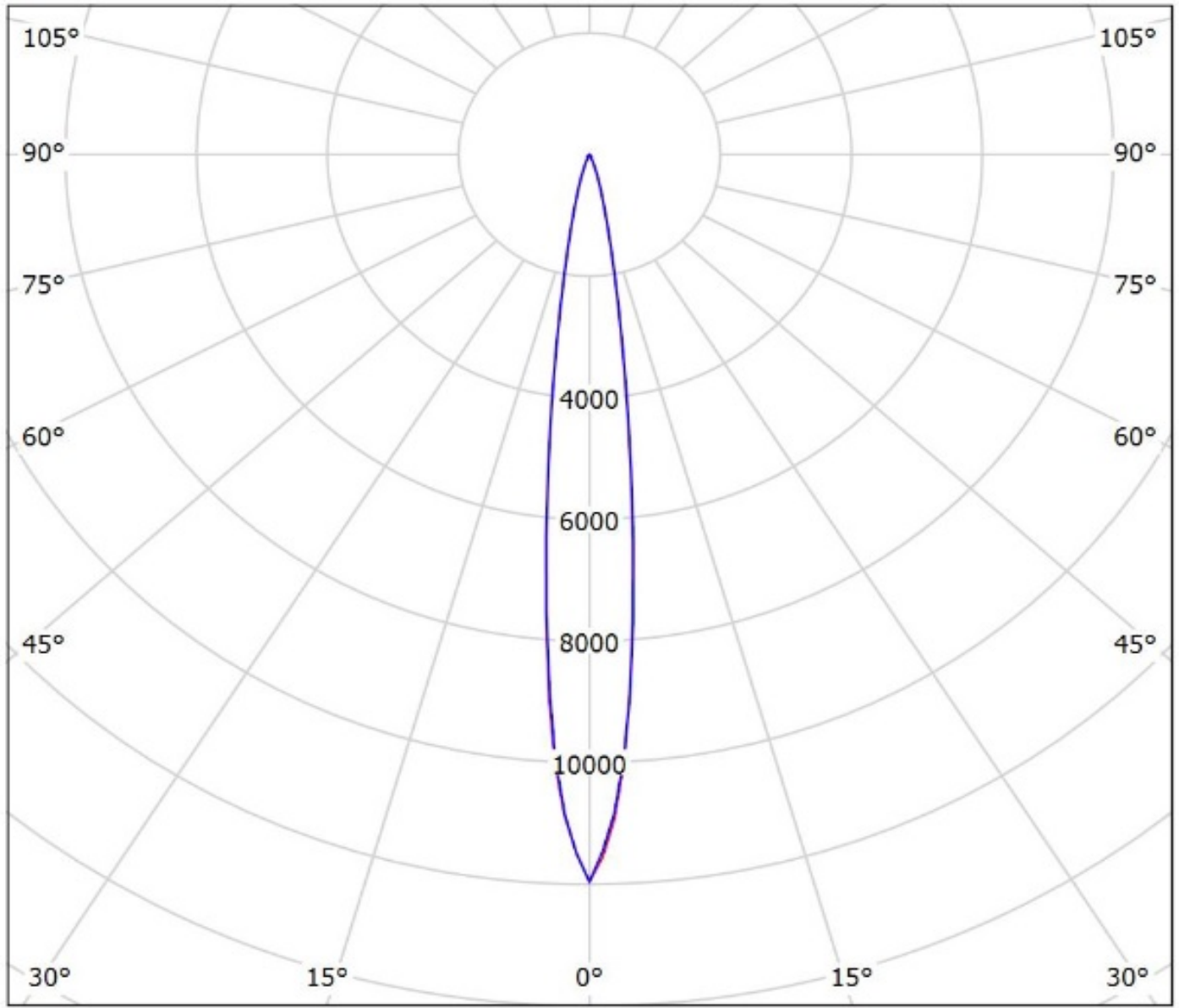
$\eta = 86\%$

Luminaire: LEDiL Oy CA14507\_G2-LXP2-D\_(NWSL229AE)

Lamps: 1 x Nichia\_NWSL229AE\_120.54lm@250mA\_P=0.7128W\_I=0.250A



Luminaire: Ledil Oy CA14507\_G2-LXP2-D-P\_(NVSxx19B)\_SIMULATED  
Lamps: 1 x Nichia NVSxx19V (NVSW219B)

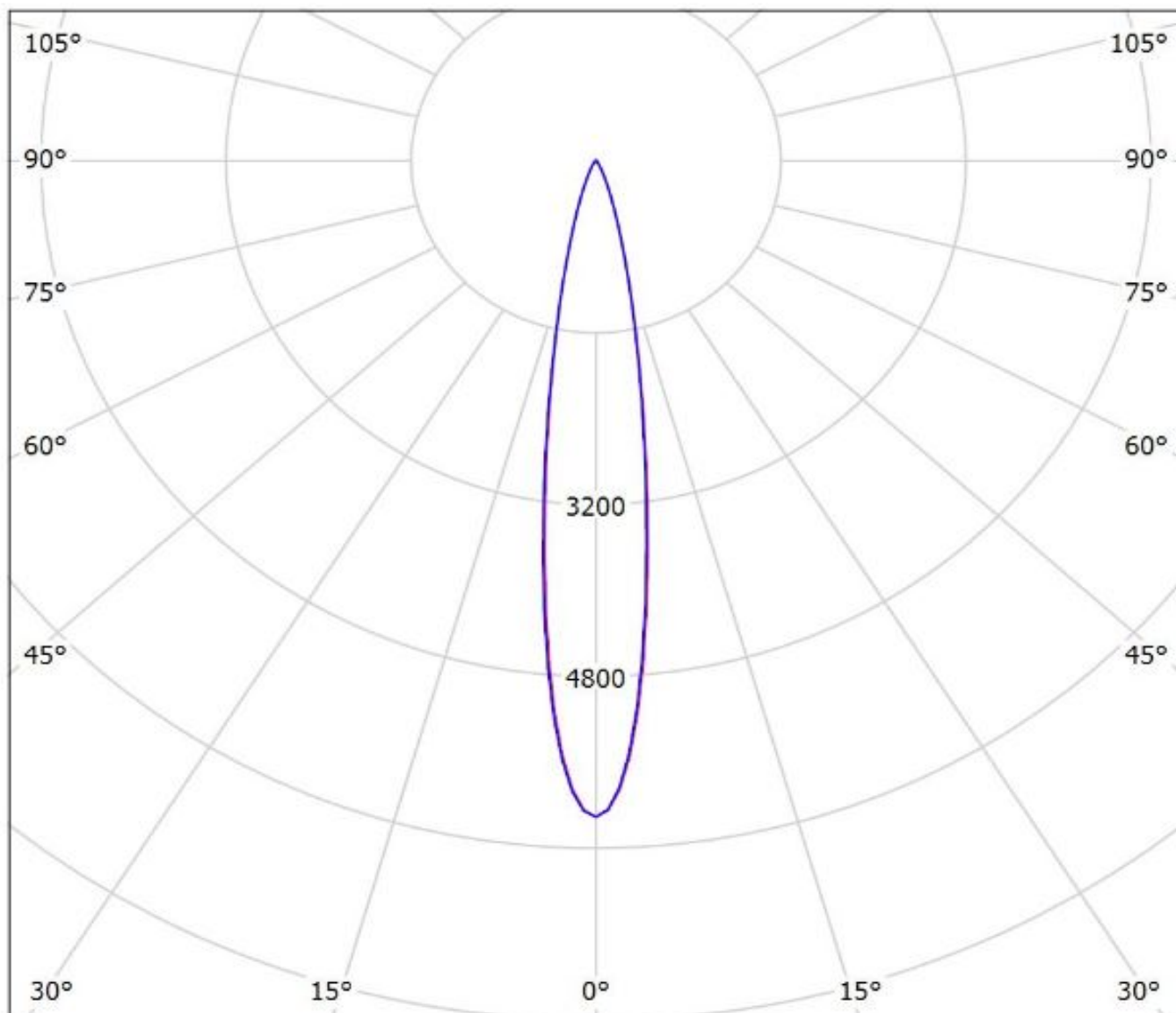


cd/klm  
— C0 - C180 — C90 - C270

$\eta = 89\%$

Luminaire: LEDiL Oy CA14507\_G2-LXP2-D-P\_(NVSW3x9A)

Lamps: 1 x Nichia\_NVSW3x9A\_(sm405/R70)\_122.334lm@250mA\_P=0.705435W\_I=0.250A

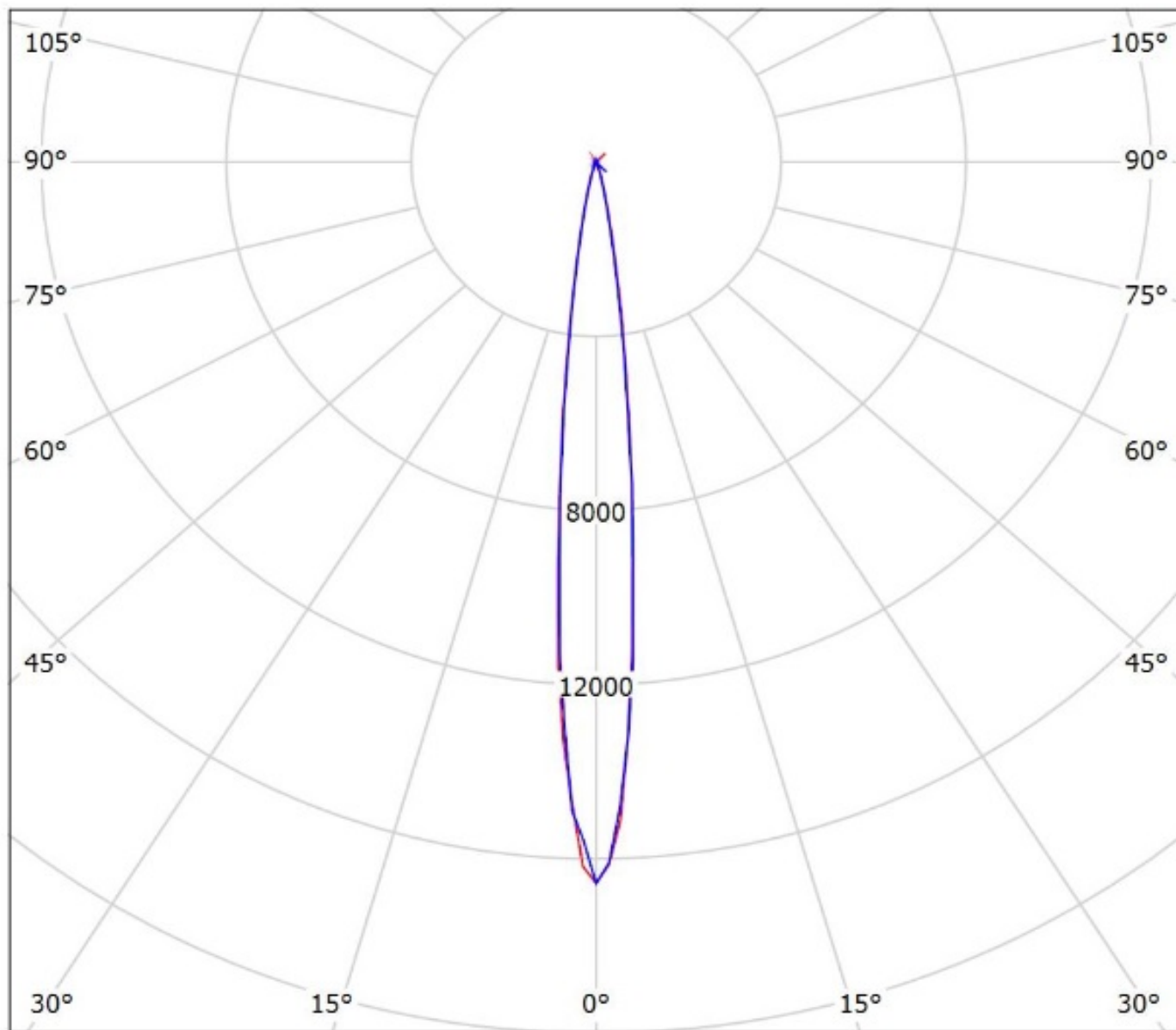


cd/klm

— C0 - C180 — C90 - C270

$\eta = 83\%$

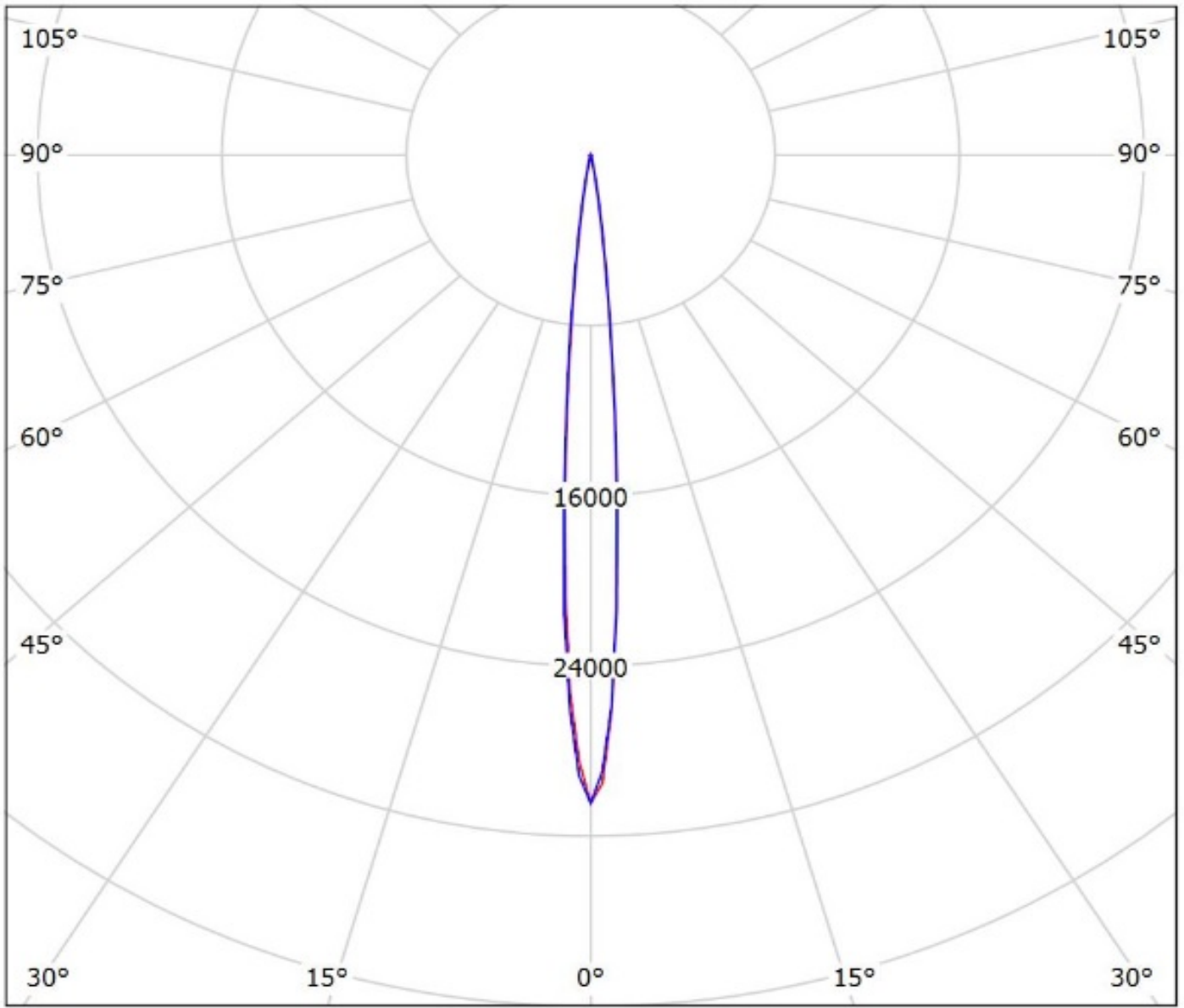
Luminaire: Ledil Oy CA14507\_G2-LXP2-D-P\_(Oslon\_Square\_Gen3)\_SIMULATED  
Lamps: 1 x Osram Oslon Square Gen 3 (GW\_CSSRM2.PC)



cd/klm  
— C0 - C180 — C90 - C270

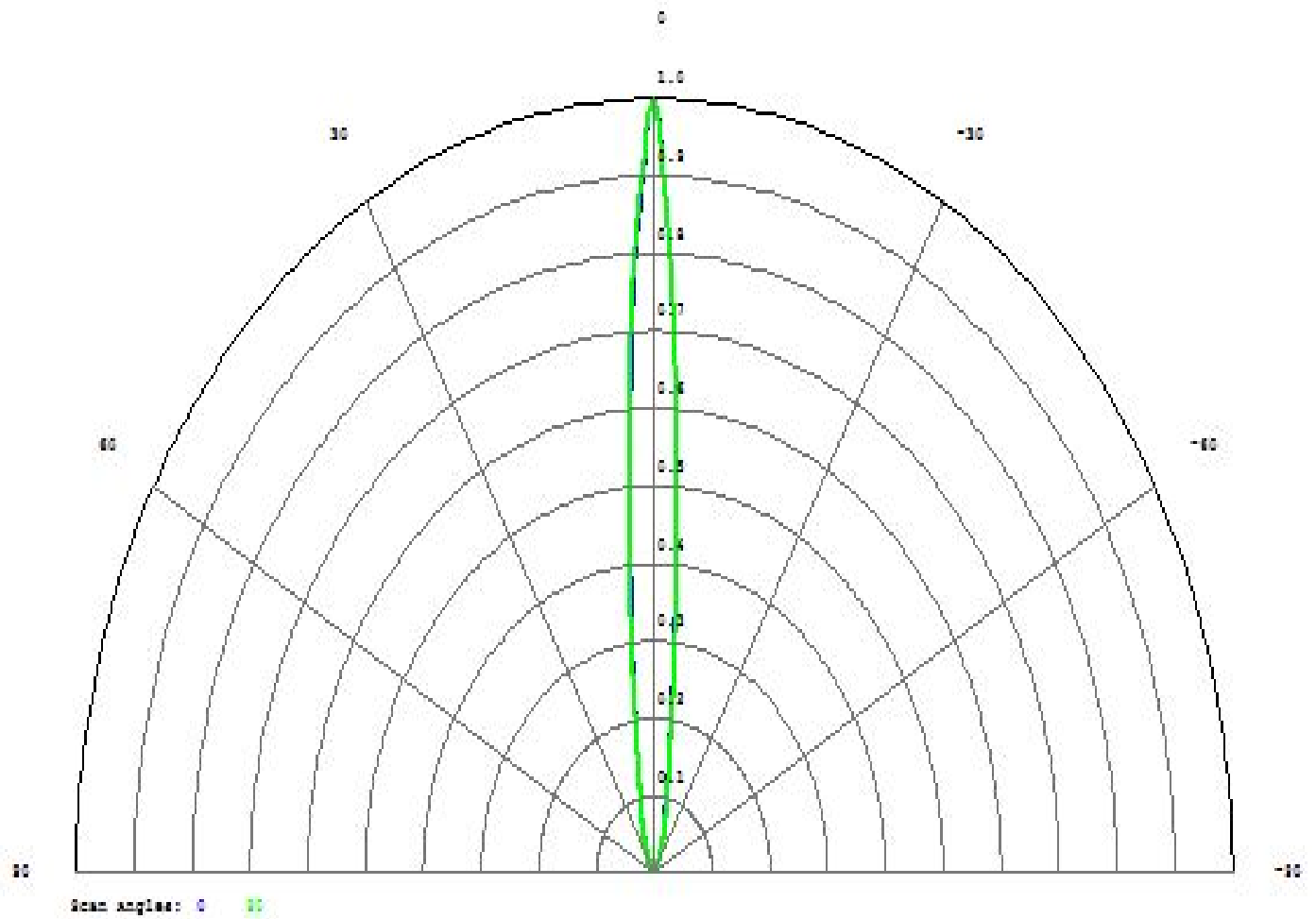
$\eta = 92\%$

Luminaire: Ledil Oy CA14507\_G2-LXP2-D-P\_(Oslon\_SSL\_80)\_SIMULATED  
Lamps: 1 x Osram Oslon SSL 80 (LA CP7P)



cd/klm  
— C0 - C180 — C90 - C270

$\eta = 92\%$

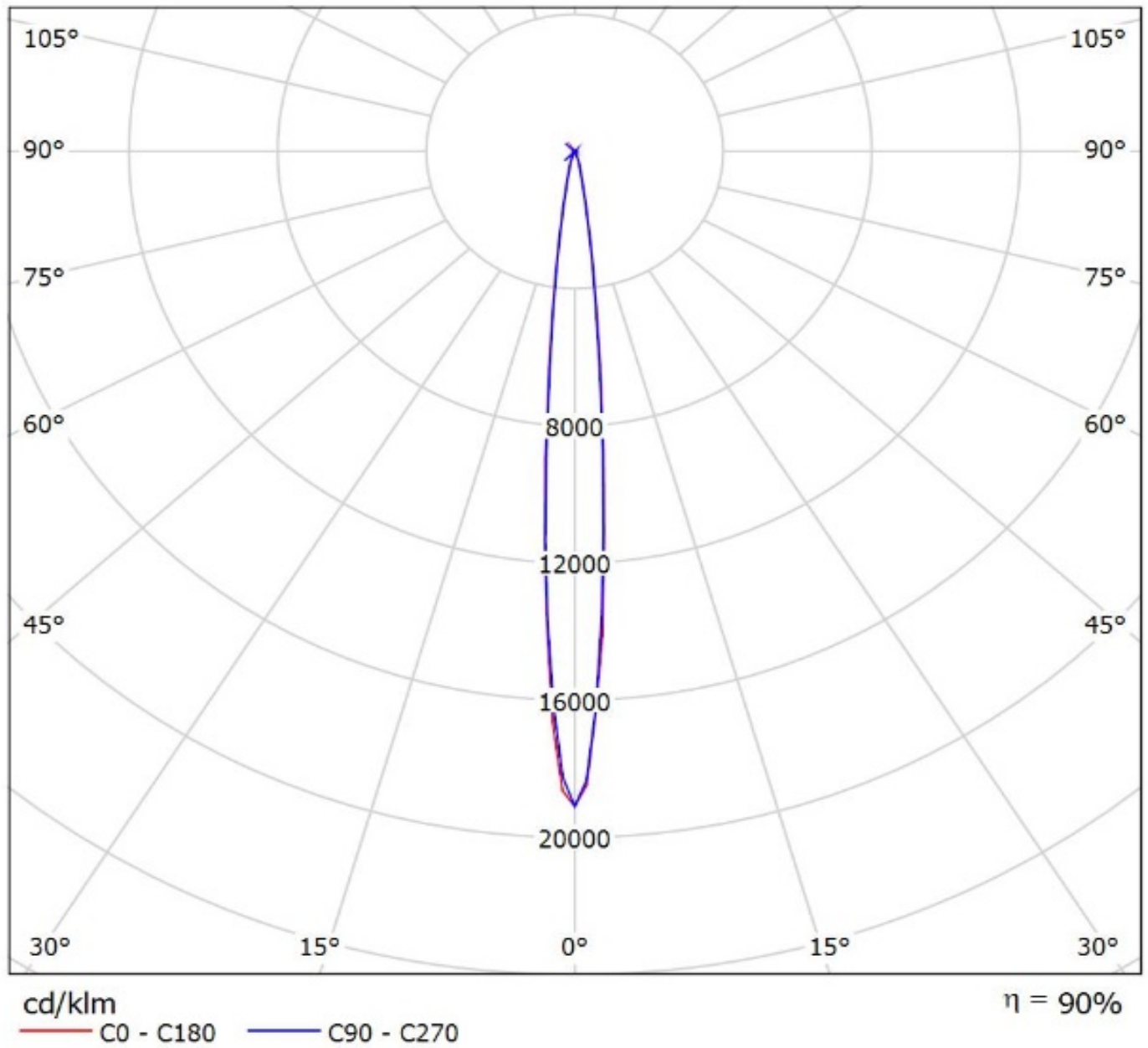


Detector Image: Radiant Intensity

8.4.2016  
 Detector 4, NSCG Surface 1:  
 Scan Angles: 0, 90  
 Peak Intensity : 1.131E+001 Watts/Steradian

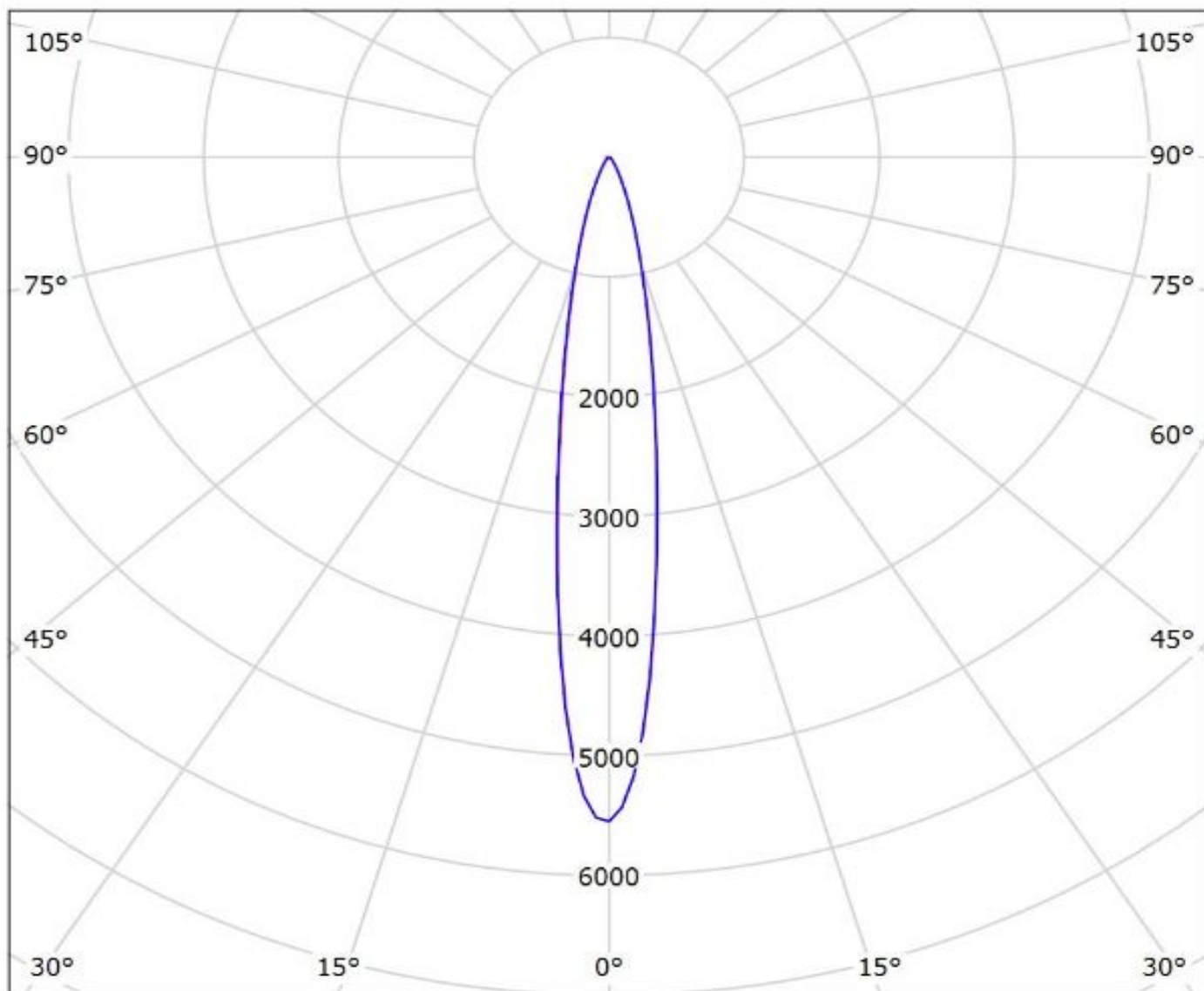
CA14507\_G2-LXP2-D-P\_SFH\_4770S.ZMX  
 Configuration 1 of 1

Luminaire: Ledil Oy CA14507\_G2-LXP2-D-P\_(OSRAM\_OSLON\_SQUARE\_FLAT)\_SIMULATED  
Lamps: 1 x OSRAM\_OSLON\_SQUARE\_FLAT



Luminaire: LEDiL Oy CA14507\_G2-LXP2-D-P\_(Z8Y22plus)

Lamps: 1 x Seoul\_Z8Y22plus\_(W6E2G)\_125.652lm@250mA\_P=0.69312W\_I=0.250A



cd/klm

— C0 - C180 — C90 - C270

η = 78%

**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.**