

## DETAILS

<b>Product Number</b>	CA14509_G2-LXP2-M-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>	18/08/2016



## OPTICAL PROPERTIES

LED	Viewing	Light	Effi-		Connector
	Angle	Beam	ciency	cd/lm	
XP-E	22 deg	Medium	88 %	5.170	-
XP-L	24 deg	Medium	86 %	4.100	-
XP-G2	sim: 25	Medium	sim: 93 %	sim: 4.800	-
XT-E	sim: 26	Medium	sim: 89 %	sim: 4.300	-
XP-G3	sim: 26	Medium	sim: 89 %	sim: 4.000	-
H35C1 (LEMWA33)	sim: 26	Medium	sim: 91 %	sim: 4.300	-
LUXEON C	23 deg	Medium	82 %	5.300	-
LUXEON T	sim: 26	Medium	sim: 92 %	sim: 4.300	-
LUXEON TX	sim: 26	Medium	sim: 91 %	sim: 4.200	-
LUXEON IR Compact	sim: 26	Medium	sim: 84 %	sim: 0.000	-
LUXEON IR Domed 60	sim: 24	Medium	sim: 88 %	sim: 0.000	-
LUXEON IR Domed 90	sim: 26	Medium	sim: 90 %	sim: 0.000	-
LUXEON V	26 deg	Medium	86 %	3.600	-
NCSxx19A	22 deg	Medium	86 %	4.600	-
NWSx229A	25 deg	Medium	86 %	3.600	-
NVSxx19B/NVSxx19C	sim: 25	Medium	sim: 88 %	sim: 4.100	-
NVSW3x9A	24 deg	Medium	86 %	4.300	-
Oslon Square Gen3	sim: 26	Medium	sim: 92 %	sim: 4.400	-
Oslon SSL 80	sim: 27	Medium	sim: 91 %	sim: 4.600	-
SFH 4770S	sim: 25	Medium	sim: 84 %	-	-
Oslon Black Flat	sim: 24	Medium	sim: 91 %	sim: 4.800	-
LH351B	sim: 25	Medium	sim: 91 %	sim: 4.500	-
LH351A(3535)	sim: 25	Medium	sim: 91 %	sim: 4.400	-
Z5P	sim: 26	Medium	sim: 91 %	sim: 4.300	-
Z5M1/Z5M2	sim: 24	Medium	sim: 92 %	sim: 4.800	-



## PRODUCT DATASHEET

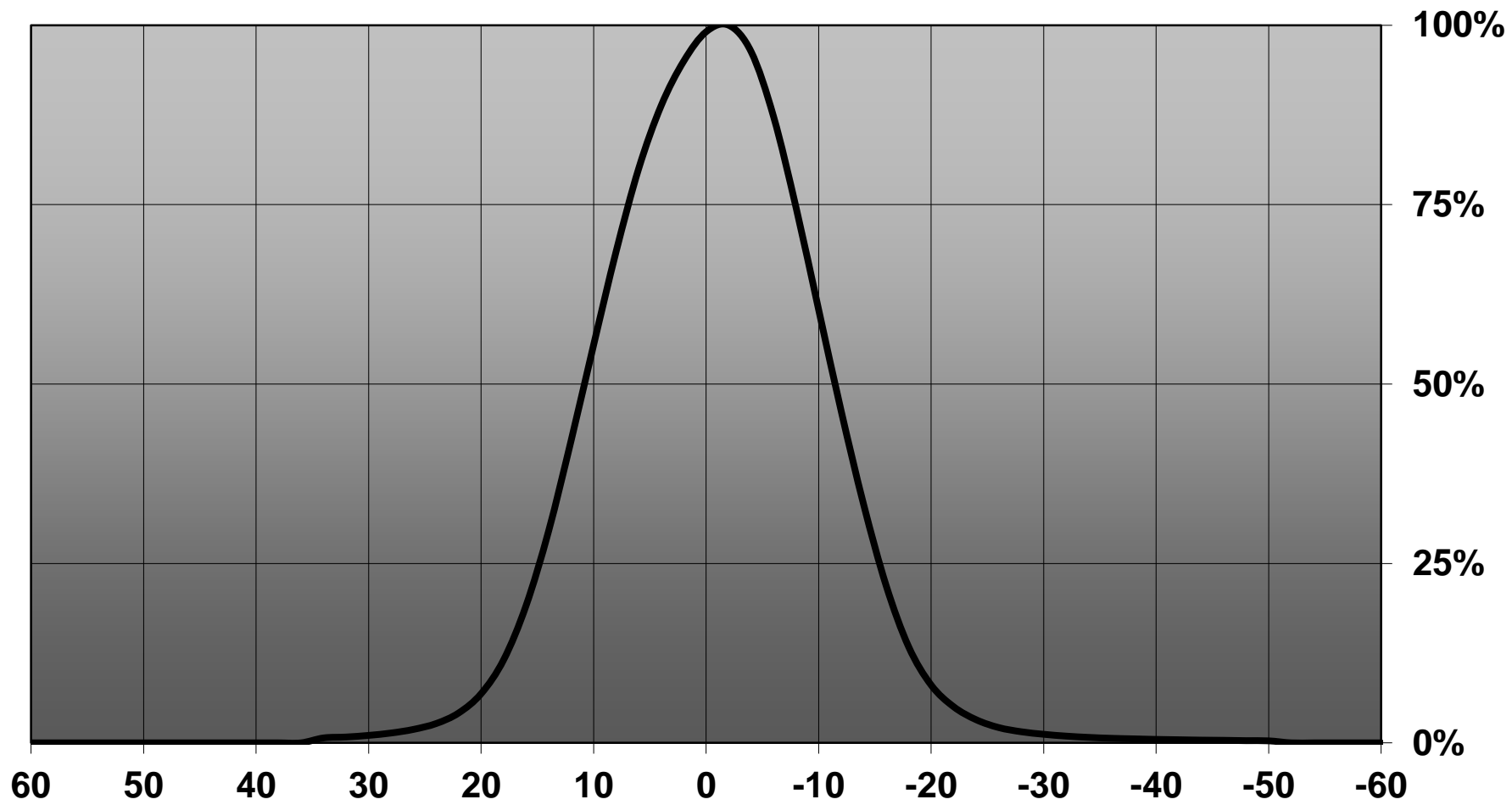
### Leila series

last update 18/8/2016

## OPTICAL PROPERTIES

LED	Viewing Angle	Light Beam	Effi- ciency	cd/lm	Connector
Z8Y22P	26 deg	Medium	81 %	3.700	-

Relative intensity of CA14509\_G2-LXP2-M-P\_(XP-E)



D

C

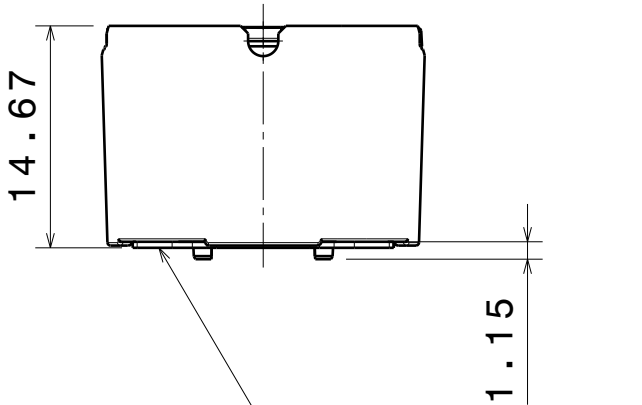
B

A

Applies to:
CA14503
CA14505
CA14507
CA14509
CA14511

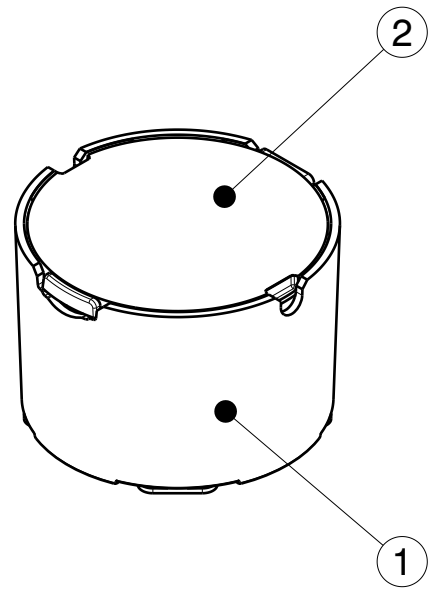
4

4



Front view

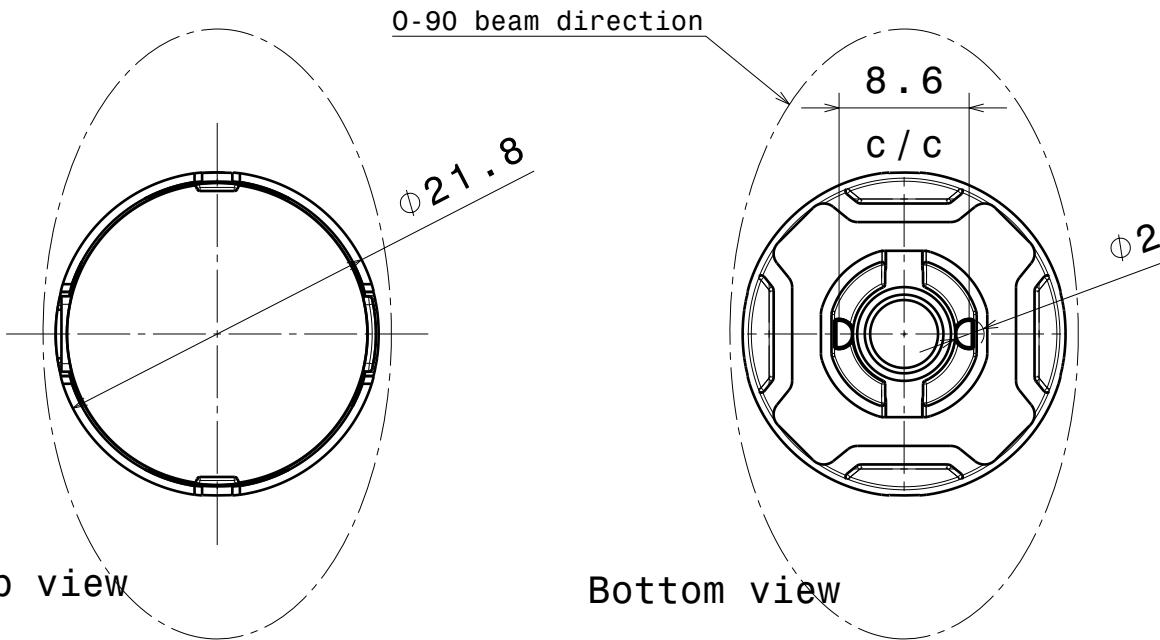
PU foam tape 0.4mm



Isometric view

3

3



Top view

Bottom view

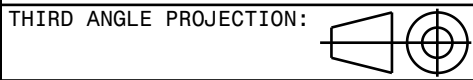
2

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



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

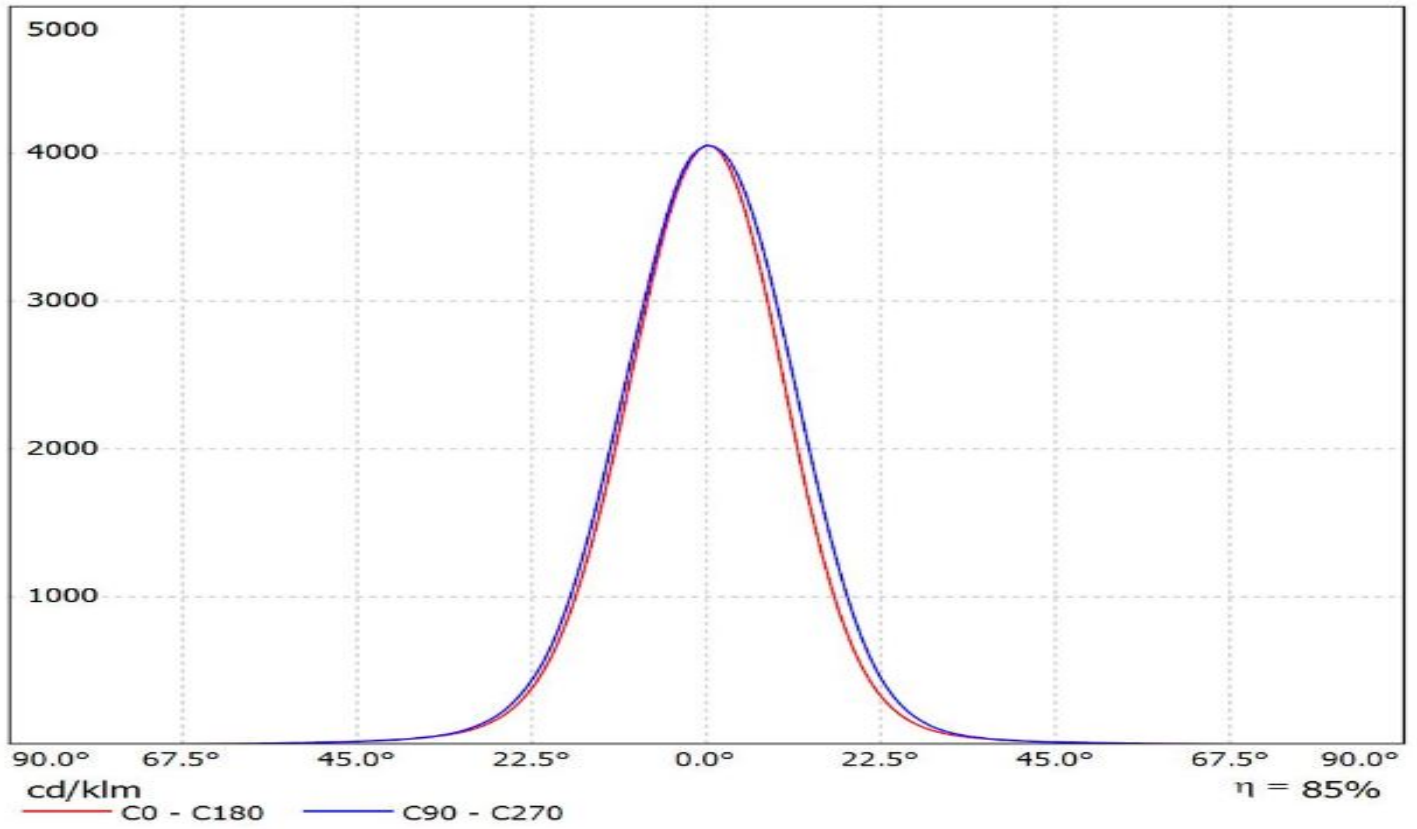
1

D

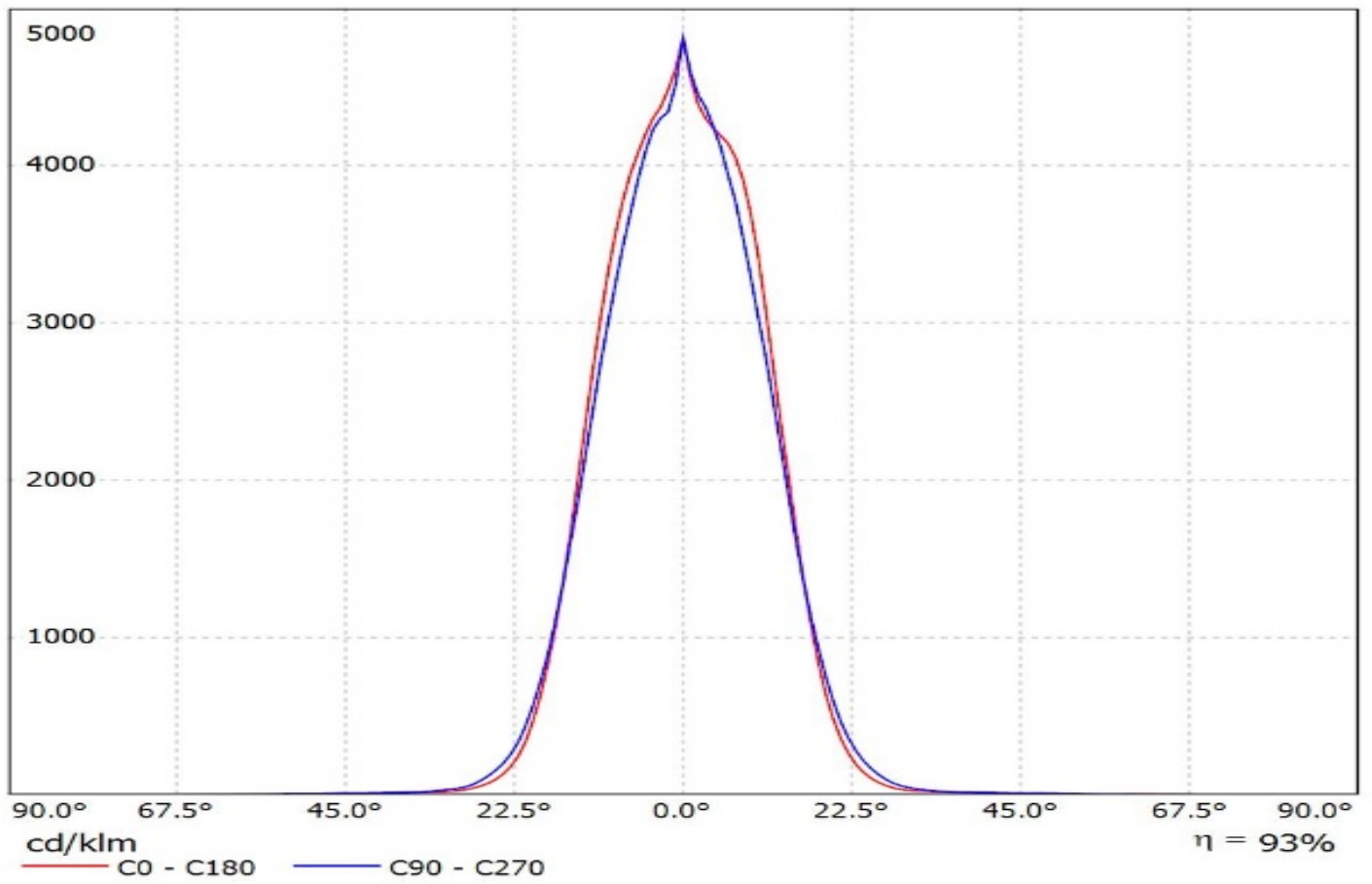
A

# Ledil CA14509\_G2-LXP2-M-P\_(XP-L) / LDC (Linear)

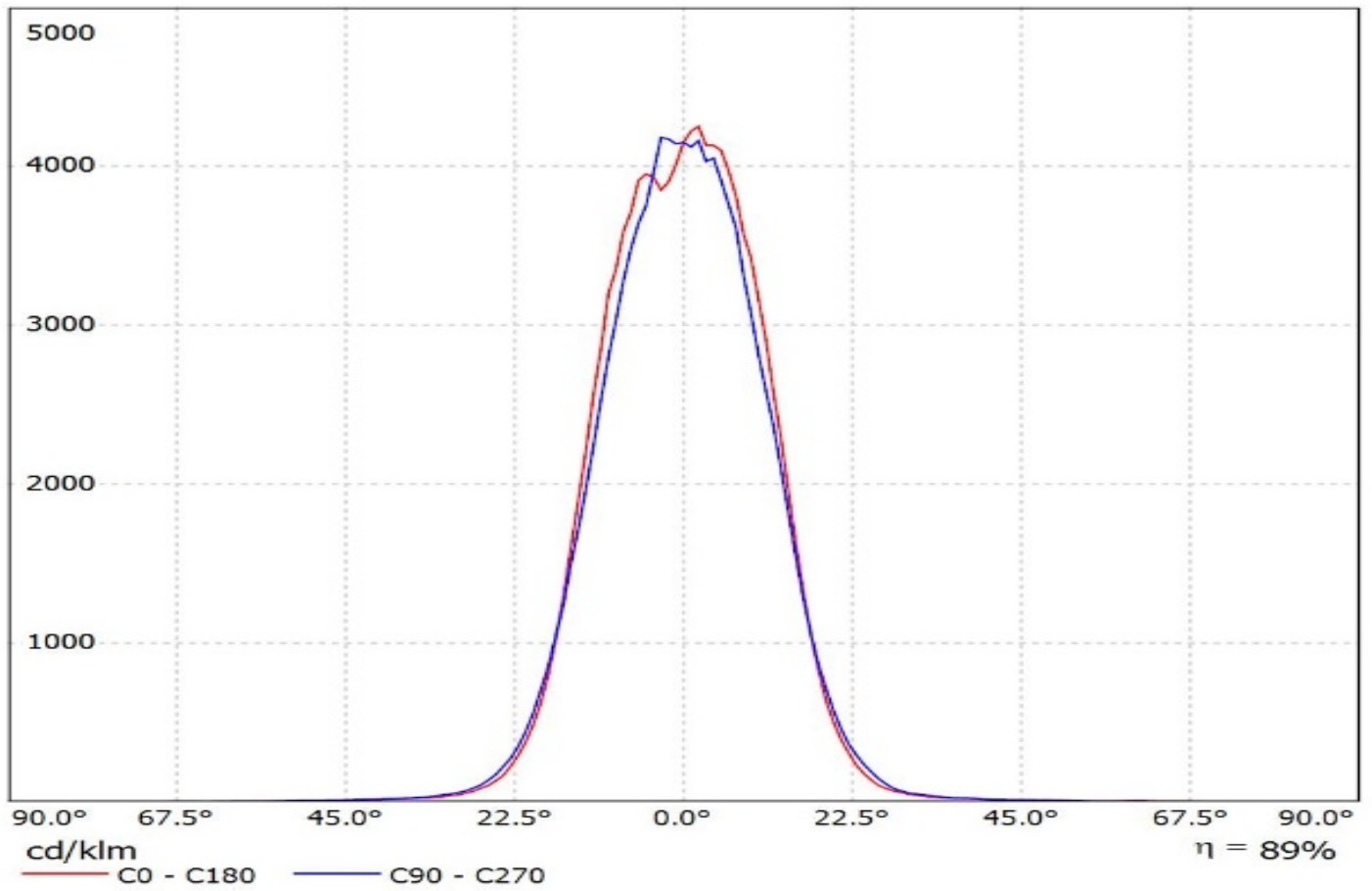
Luminaire: Ledil CA14509\_G2-LXP2-M-P\_(XP-L)  
Lamps: 1 x CREE\_XP-L\_(XPLAWT-0-7A3-U50-0H-0001)  
\_107.852lm@250mA\_CCT=3185K\_P=0.7W\_I=0.25A



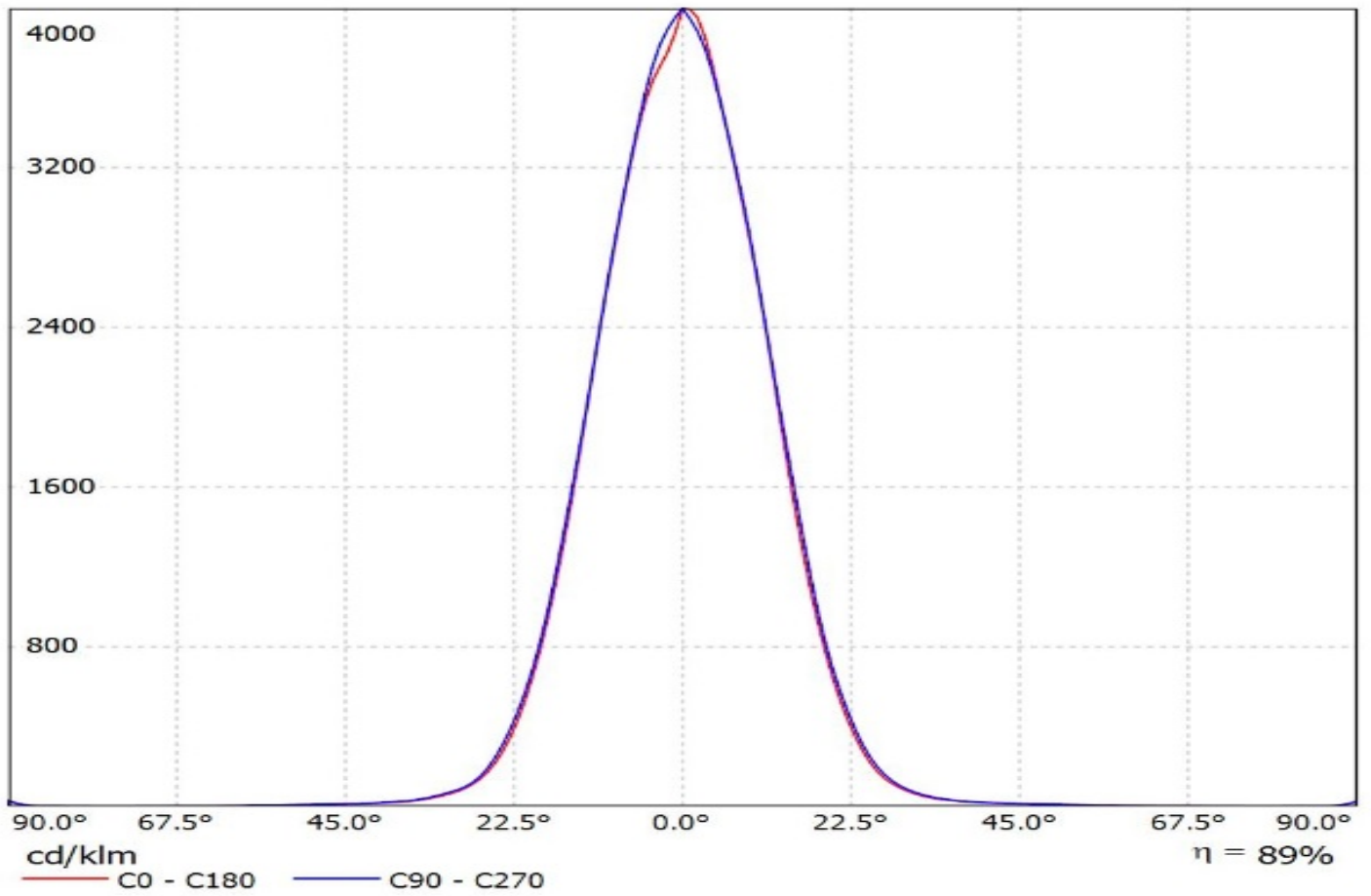
Luminaire: Ledil Oy CA14509\_G2-LXP2-M-P\_XP-G2\_SIMULATED  
Lamps: 1 x CREE XP-G2



Luminaire: Ledil Oy CA14509\_G2-LXP2-M-P\_XT-E\_SIMULATED  
Lamps: 1 x CREE XT-E

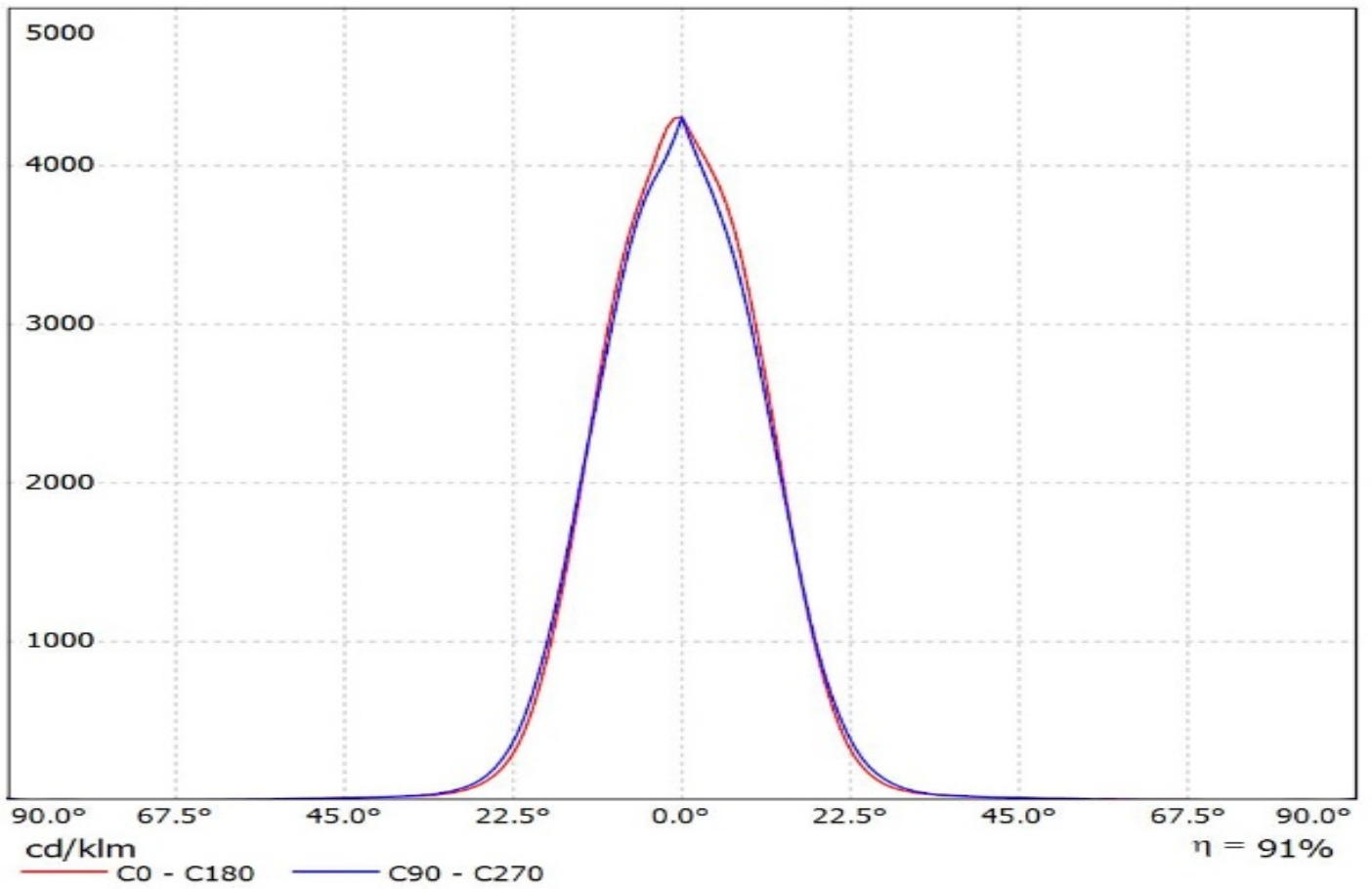


Luminaire: Ledil Oy CA14509\_G2-LXP2-M-P\_(XP-G3)\_SIMULATED  
Lamps: 1 x Cree XP-G3

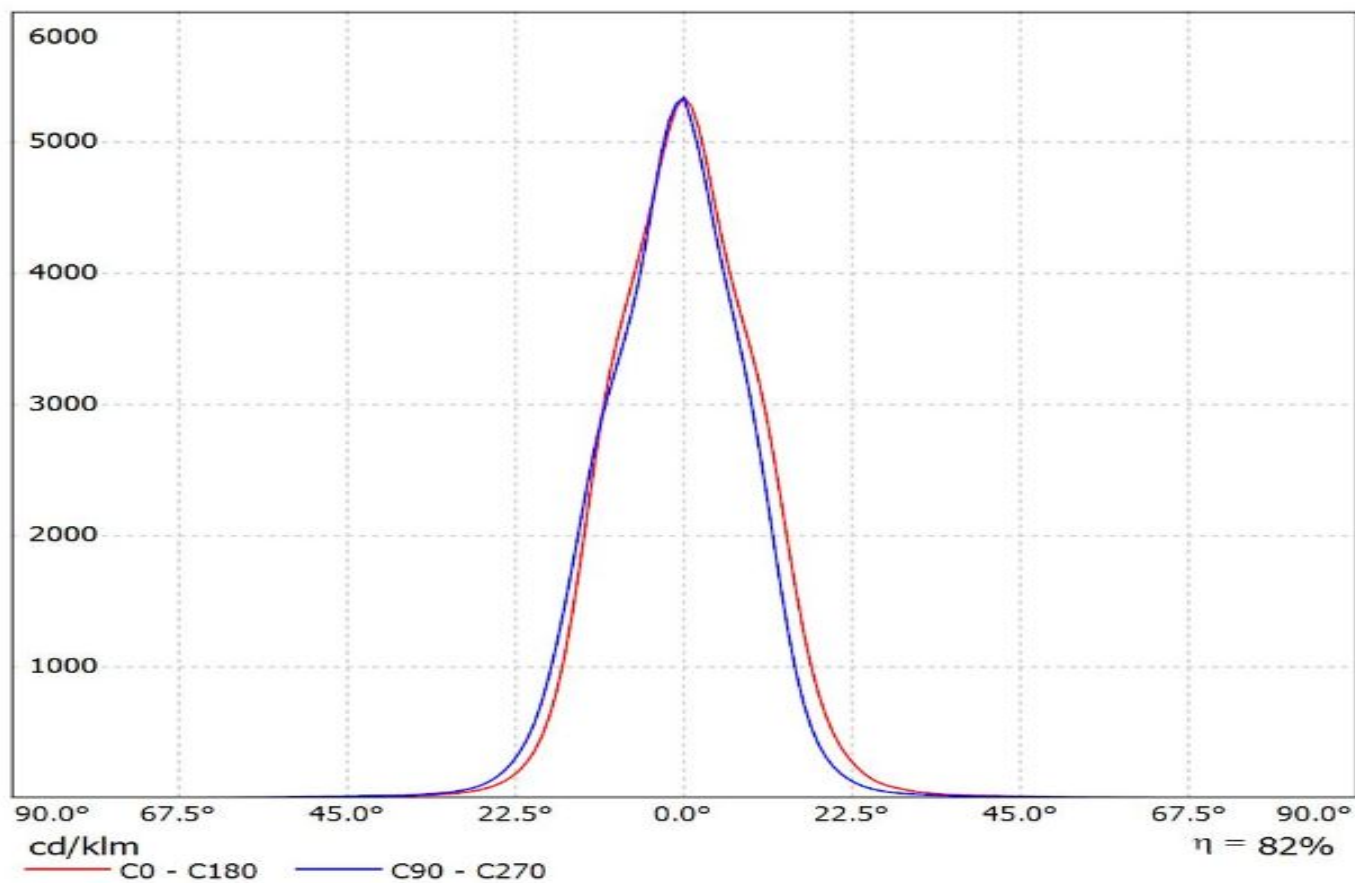




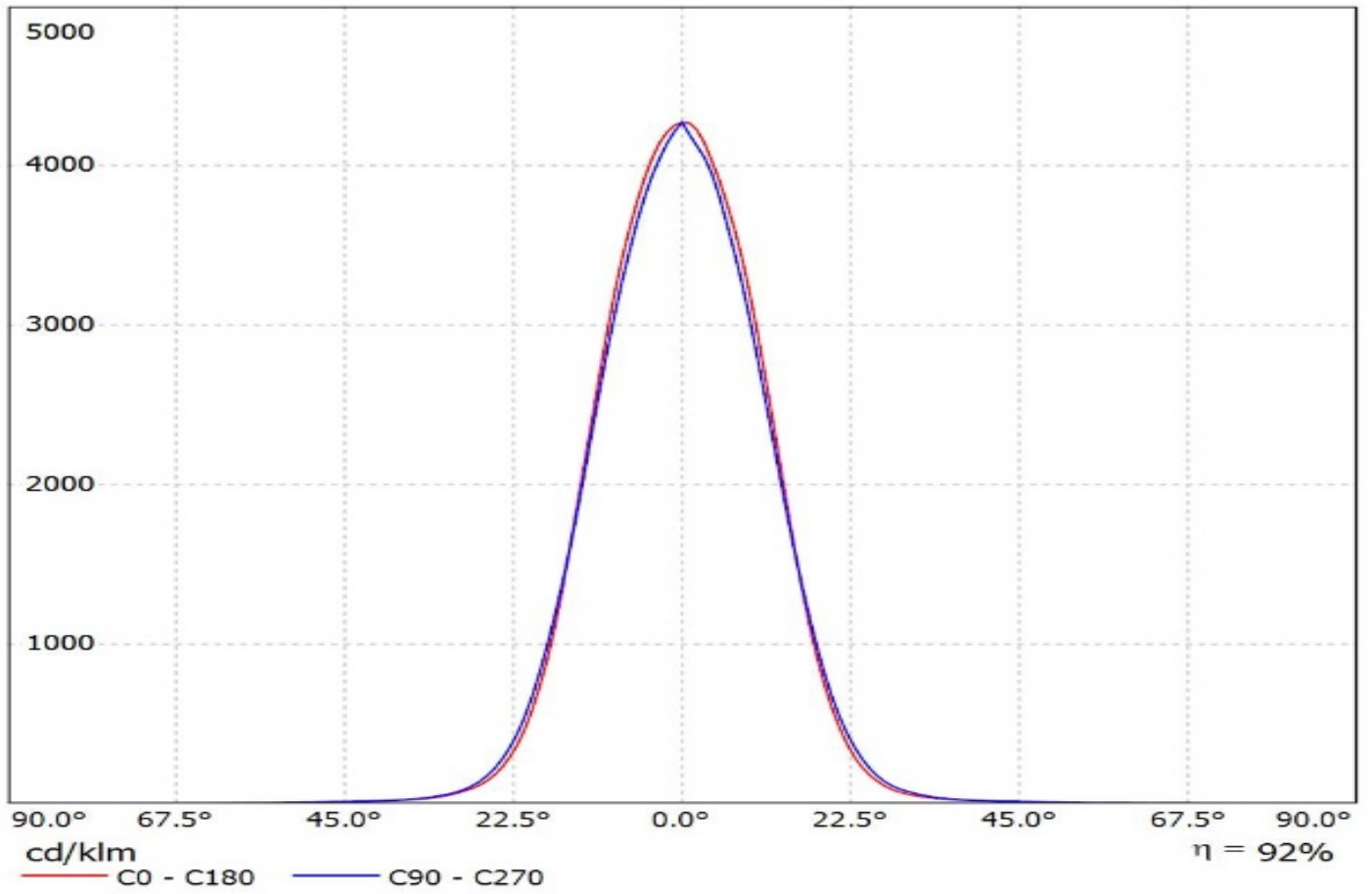
Luminaire: Ledil Oy CA14509\_G2-LXP2-M-P\_(LG\_H35C1)\_SIMULATED  
Lamps: 1 x LG H35C1



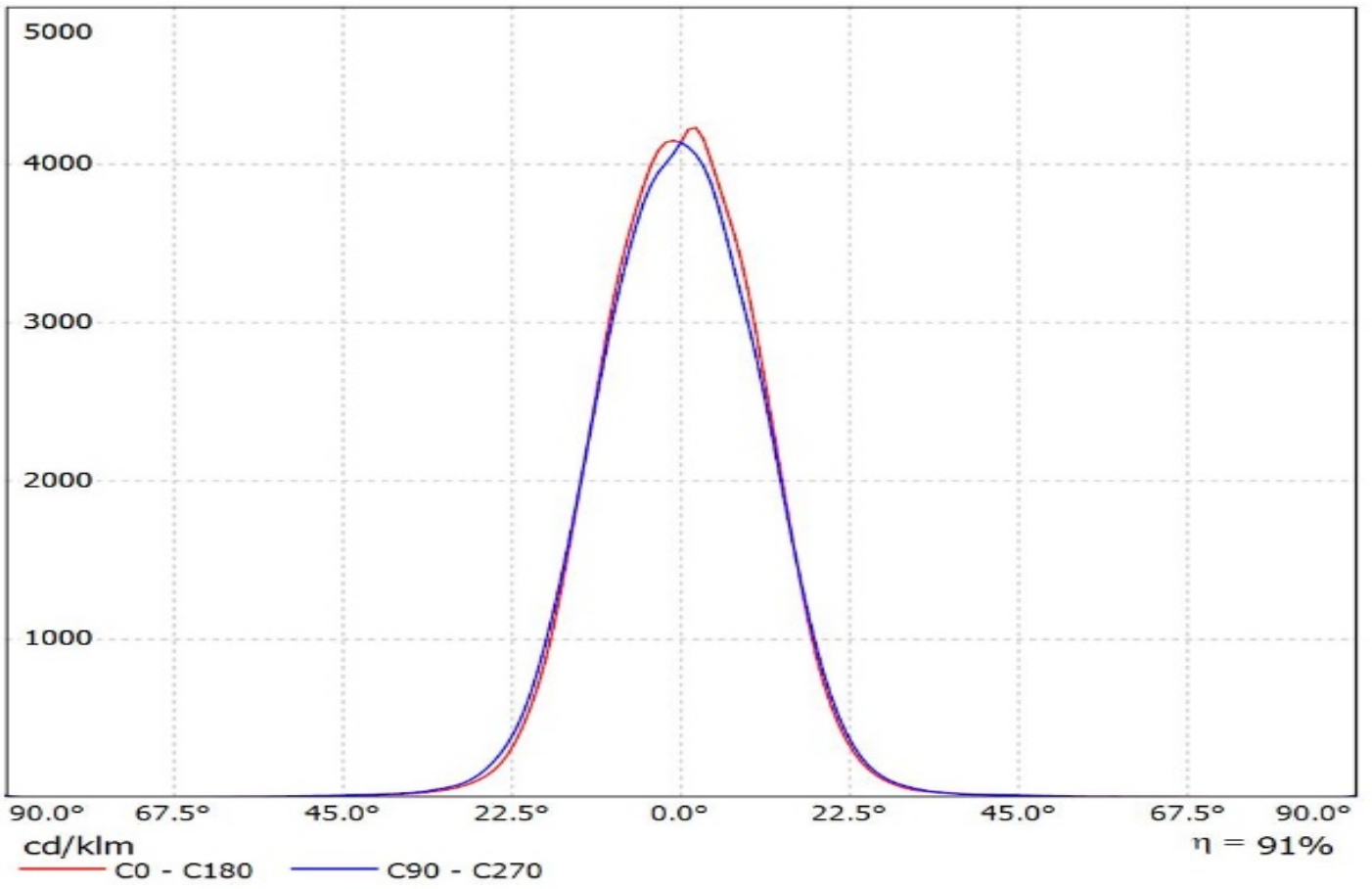
Luminaire: Ledil CA14509\_G2-LXP2-M-P\_(LUXEON\_C)  
Lamps: 1 x LUXEON\_C\_white\_85.7286lm@250mA\_P=0.7463W\_I=0.250A



Luminaire: Ledil Oy CA14509\_G2-LXP2-M-P\_(Luxeon\_T)\_SIMULATED  
Lamps: 1 x Lumileds Luxeon T

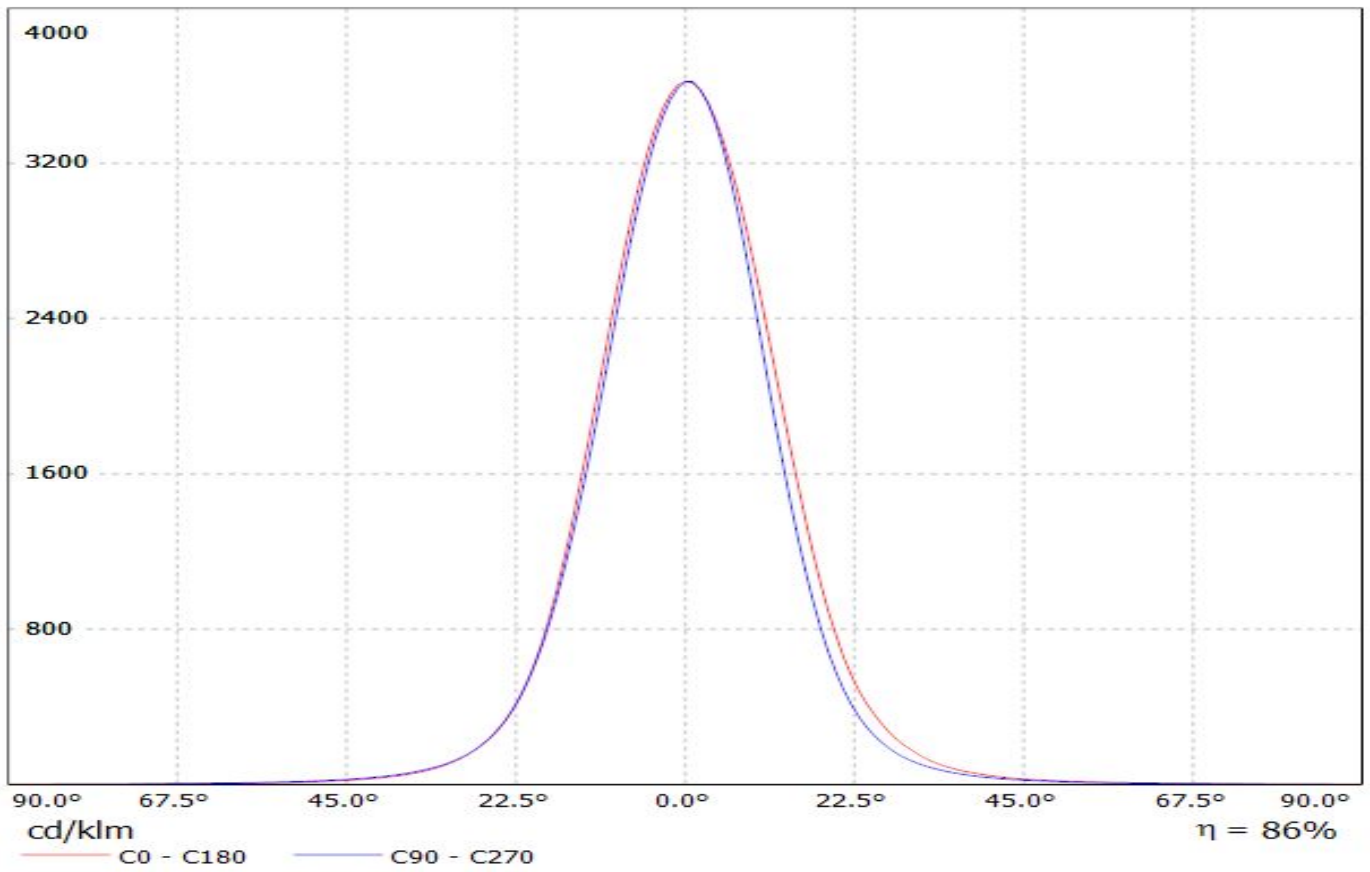


Luminaire: Ledil Oy CA14509\_G2-LXP2-M-P\_(Luxeon\_TX)\_SIMULATED  
Lamps: 1 x Lumileds Luxeon TX

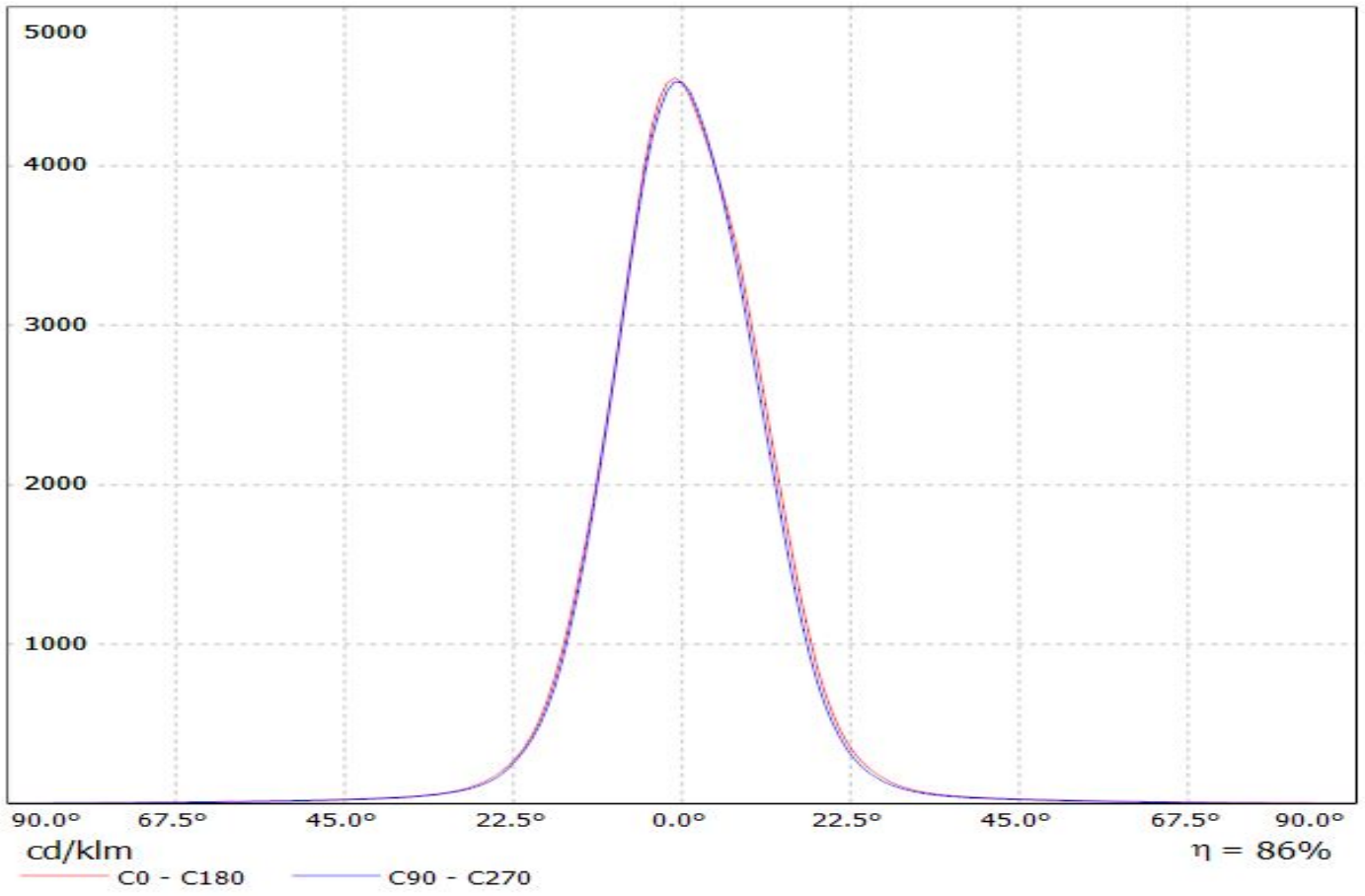


Luminaire: LEDiL Oy CA14509\_G2-LXP2-M-P\_(Luxeon\_V)

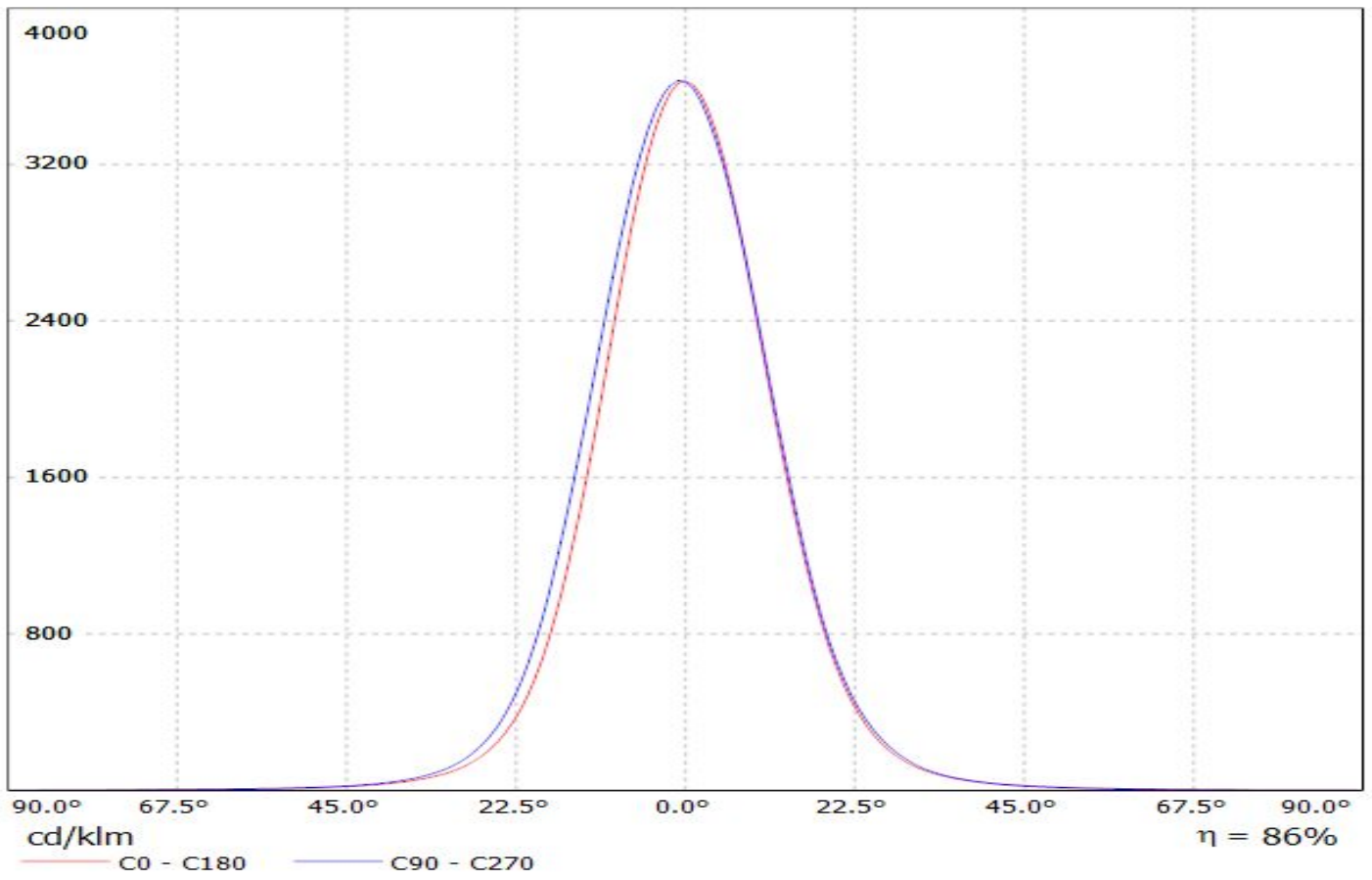
Lamps: 1 x Lumileds\_Luxeon\_V\_122.923lm@250mA\_CCT=4000K\_P=0.704836W\_I=0.25A



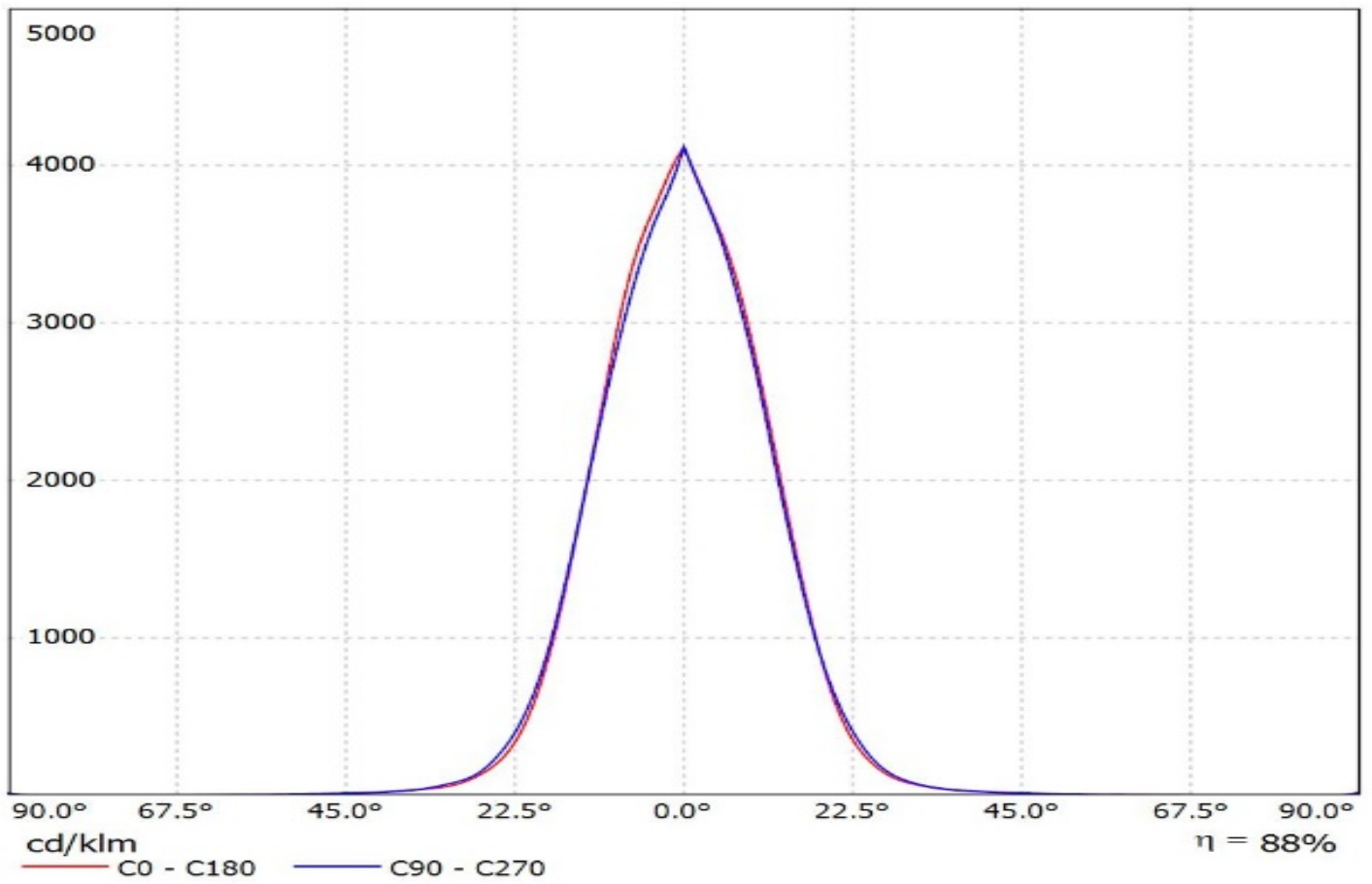
Luminaire: LEDiL Oy CA14509\_G2-LXP2-M-P\_(Nichia\_NCSxx19A)  
Lamps: 1 x Nichia\_NCSxx19A\_66.5093lm@250mA\_P=0.78701W\_I=0.2499A



Luminaire: LEDiL Oy CA14509\_G2-LXP2-M\_(NWSL229AE)  
Lamps: 1 x Nichia\_NWSL229AE\_120.54lm@250mA\_P=0.7128W\_I=0.250A



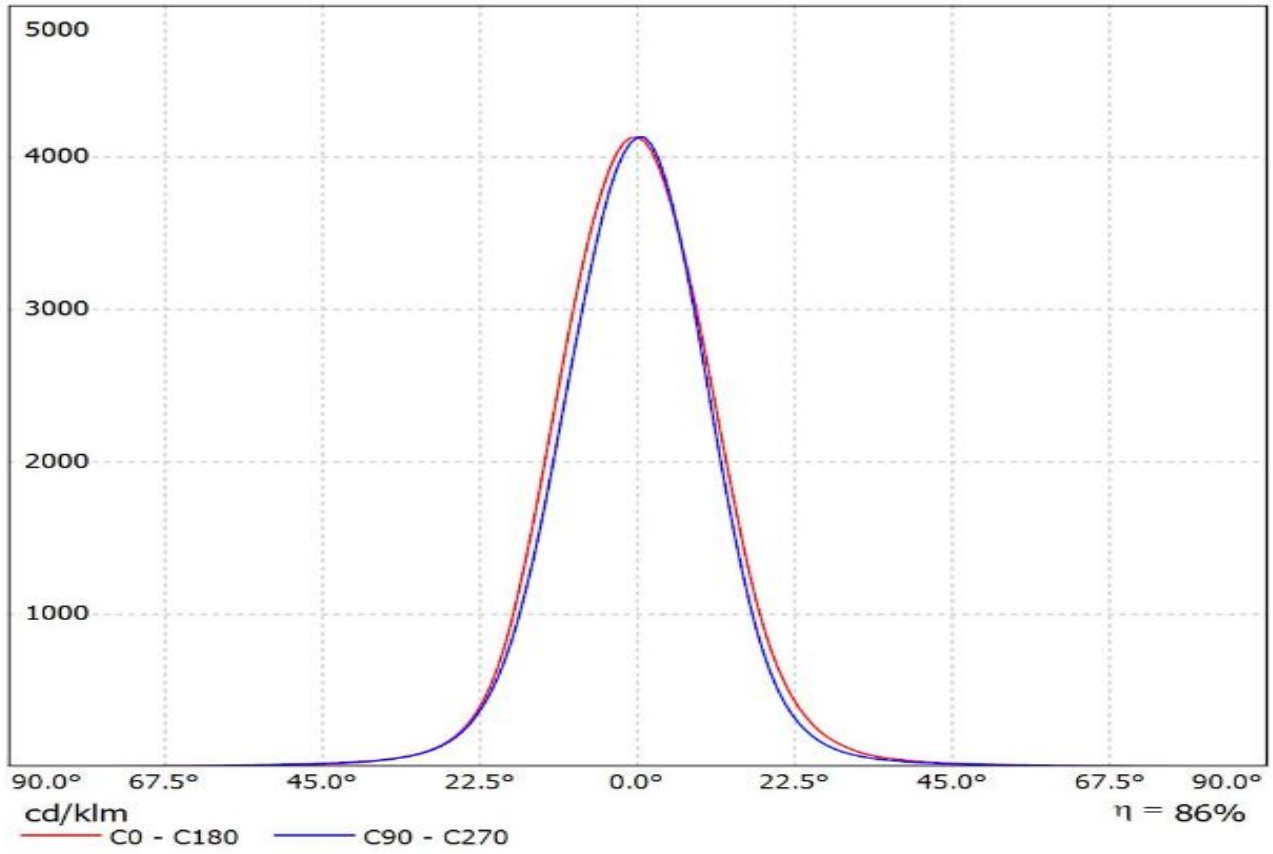
Luminaire: Ledil Oy CA14509\_G2-LXP2-M-P\_(NVSxx19B)\_SIMULATED  
Lamps: 1 x Nichia NVSxx19V (NVSW219B)



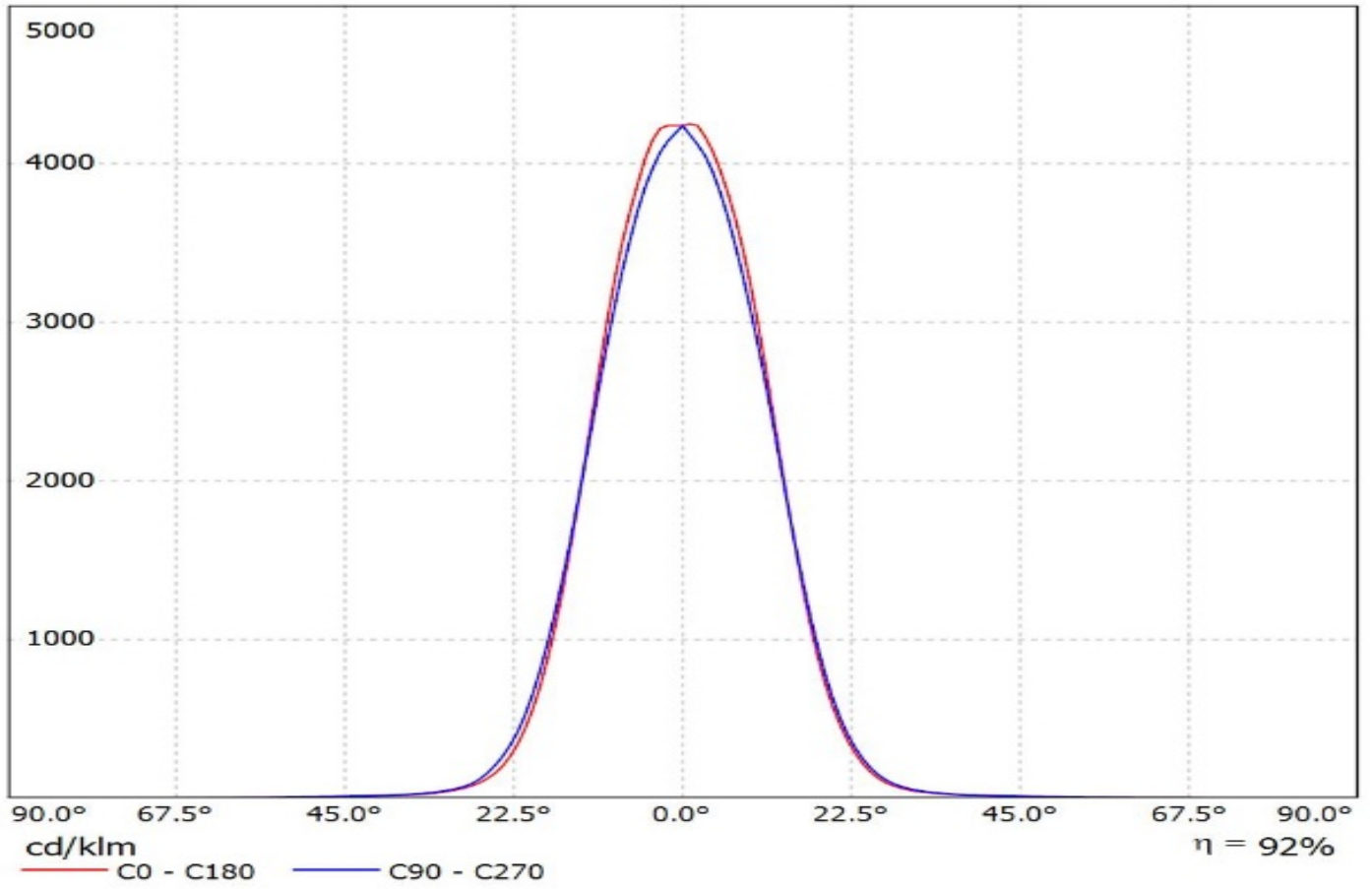


Luminaire: LEDiL Oy CA14509\_G2-LXP2-M-P\_(NVSW3x9A)

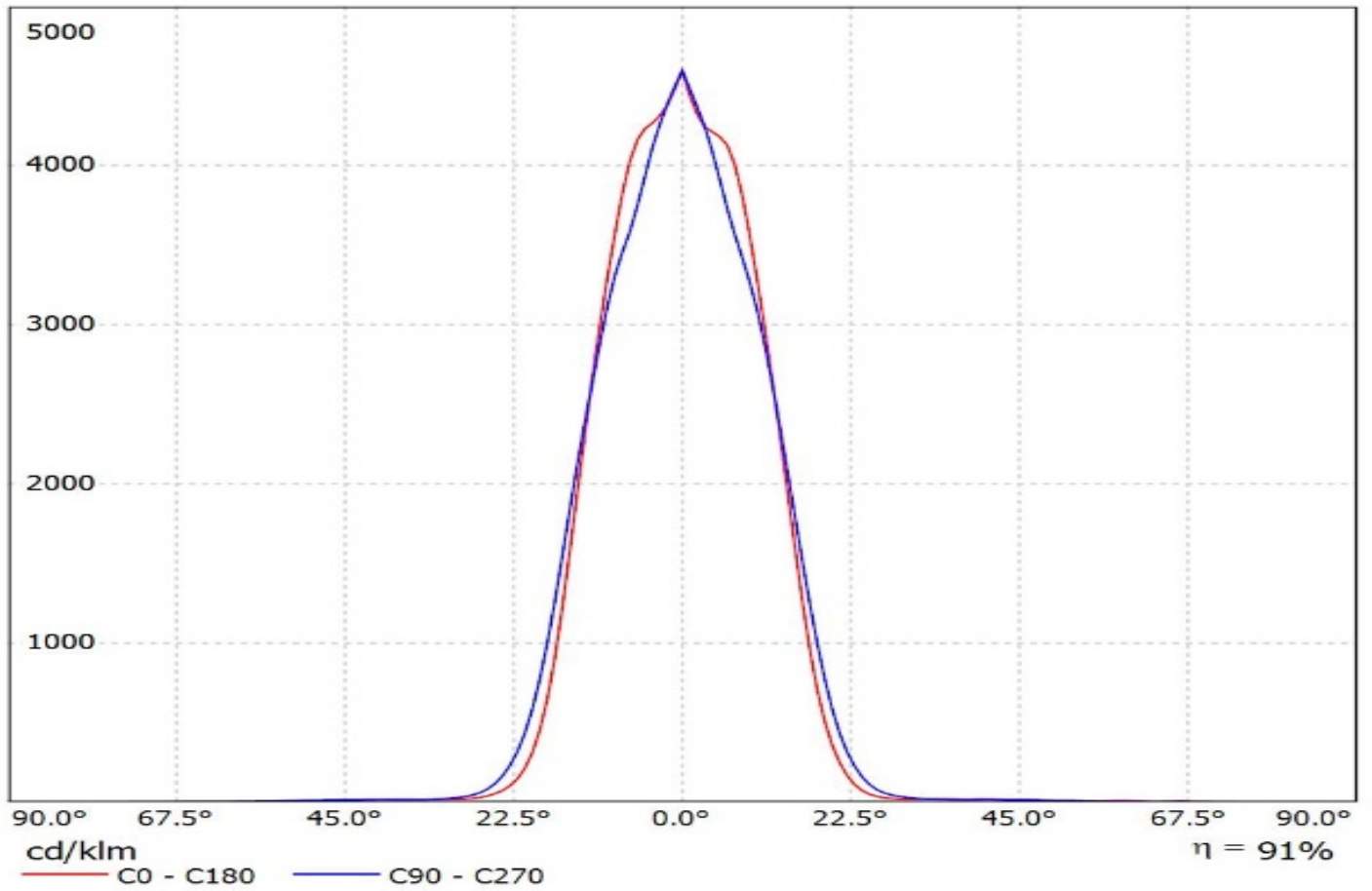
Lamps: 1 x Nichia\_NVSW3x9A\_(sm405/R70)\_122.334lm@250mA\_P=0.705435W\_I=0.250A



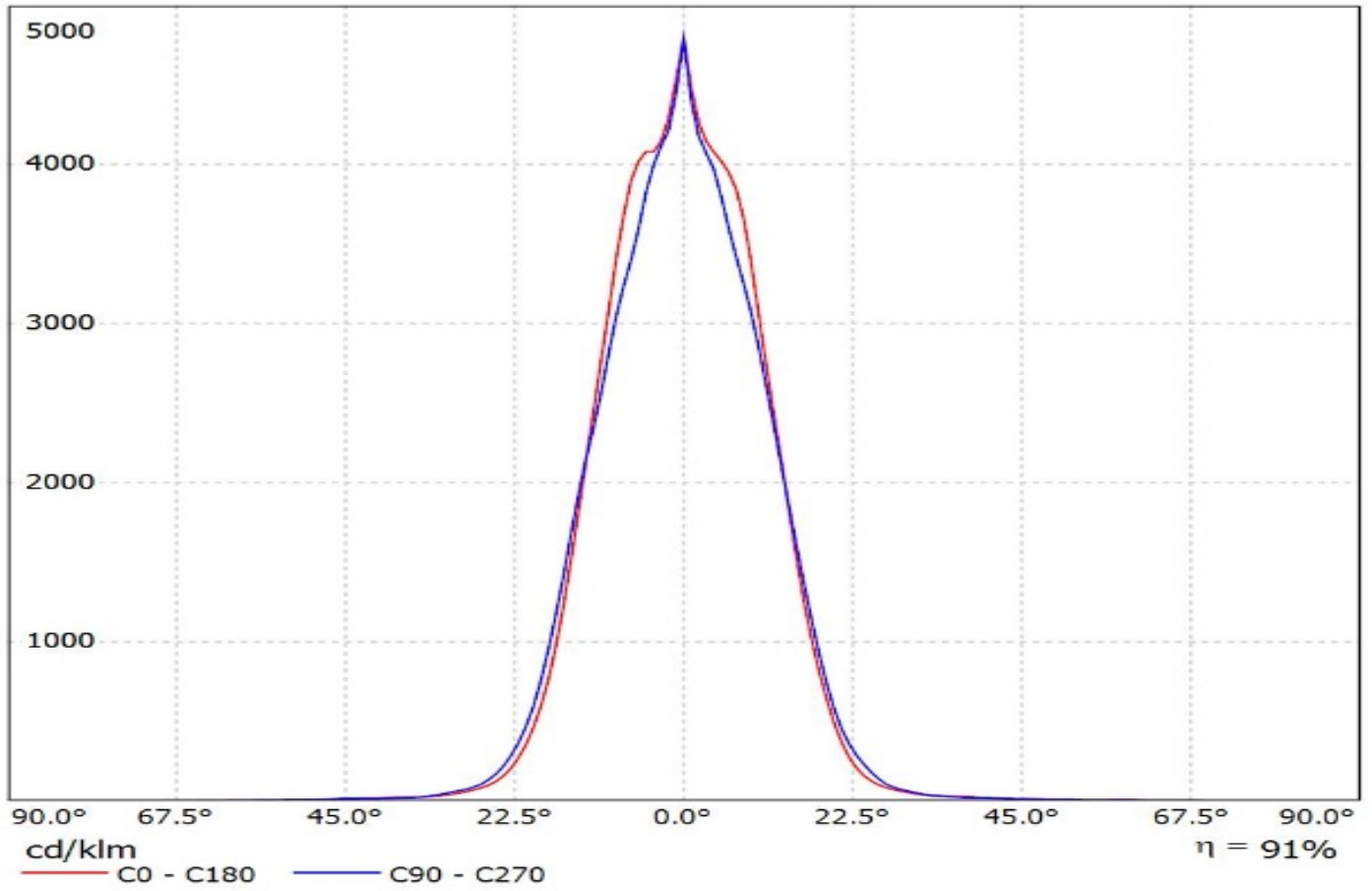
Luminaire: Ledil Oy CA14509\_G2-LXP2-M-P\_(Oslon\_Square\_Gen3)\_SIMULATED  
Lamps: 1 x Osram Oslon Square Gen 3 (GW\_CSSRM2.PC)



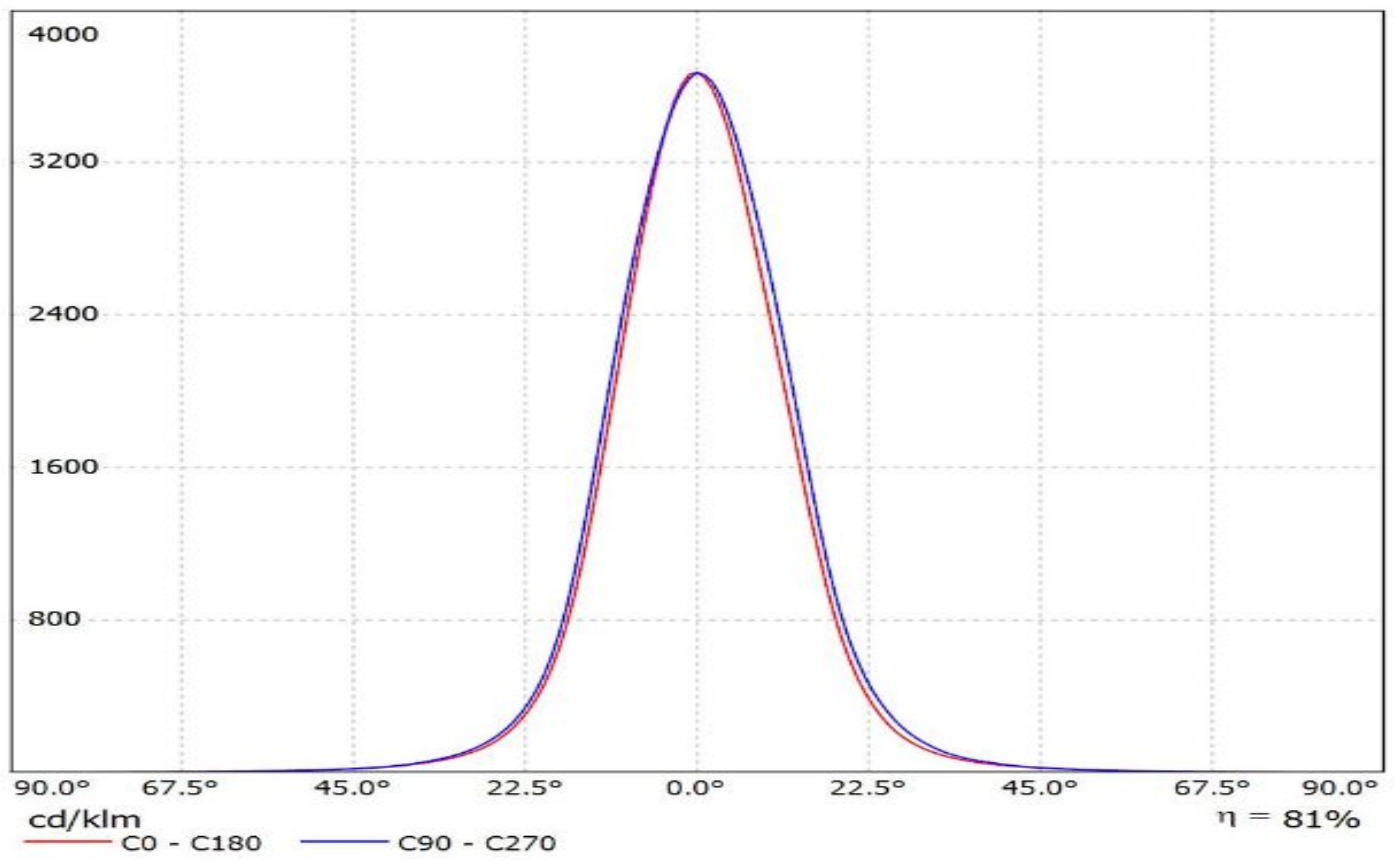
Luminaire: Ledil Oy CA14509\_G2-LXP2-M-P\_(Oslon\_SSL\_80)\_SIMULATED  
Lamps: 1 x Osram Oslon SSL 80 (LA CP7P)



Luminaire: Ledil Oy CA14509\_G2-LXP2-M-P\_(Oslon\_Black\_Flat)\_SIMULATED  
Lamps: 1 x Osram Oslon Black Flat (LUW HWQP)

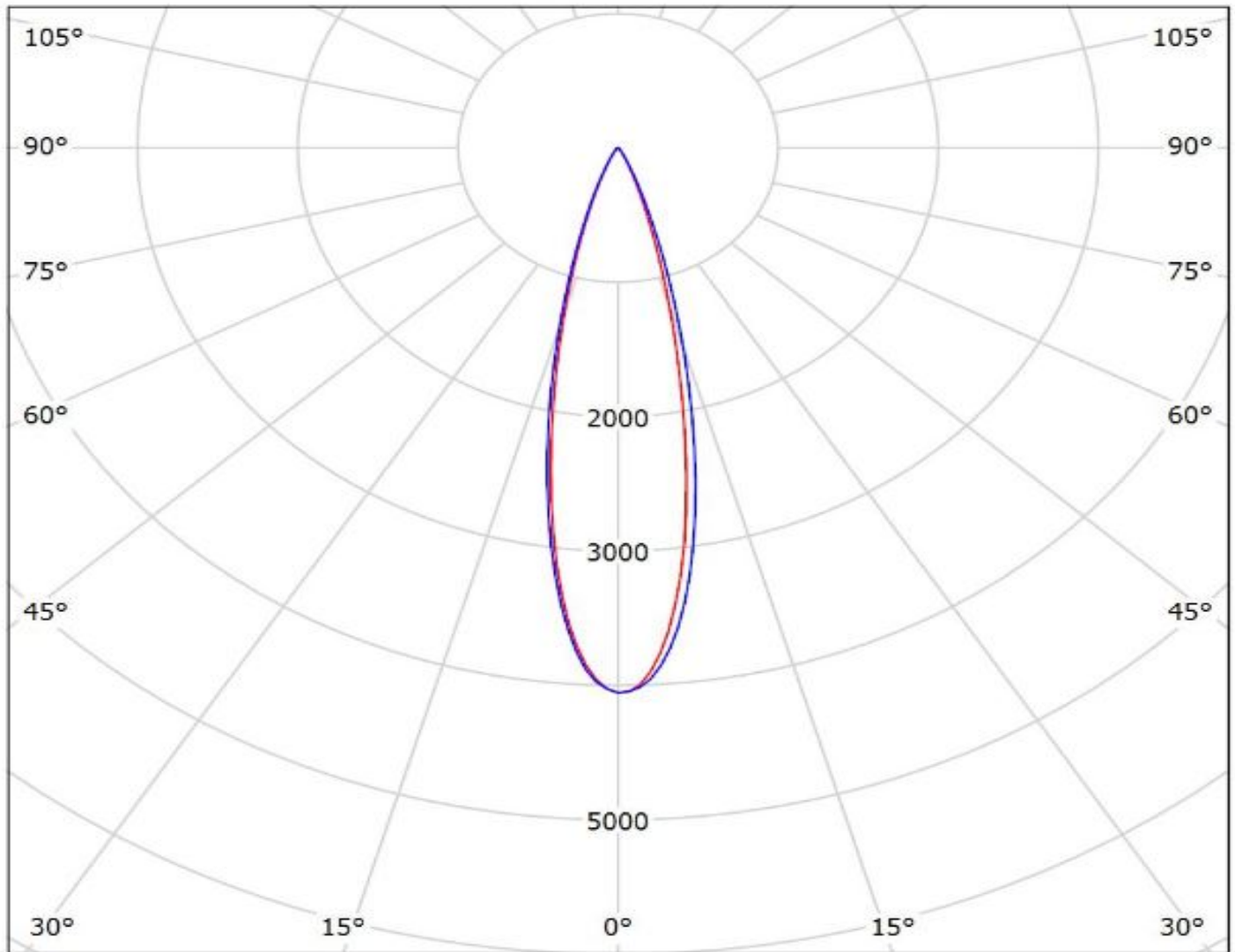


Luminaire: LEDiL Oy CA14509\_G2-LXP2-M-P\_(Z8Y22plus)  
Lamps: 1 x Seoul\_Z8Y22plus\_(W6E2G)\_125.652lm@250mA\_P=0.69312W\_I=0.250A



# Ledil CA14509\_G2-LXP2-M-P\_(XP-L) / LDC (Polar)

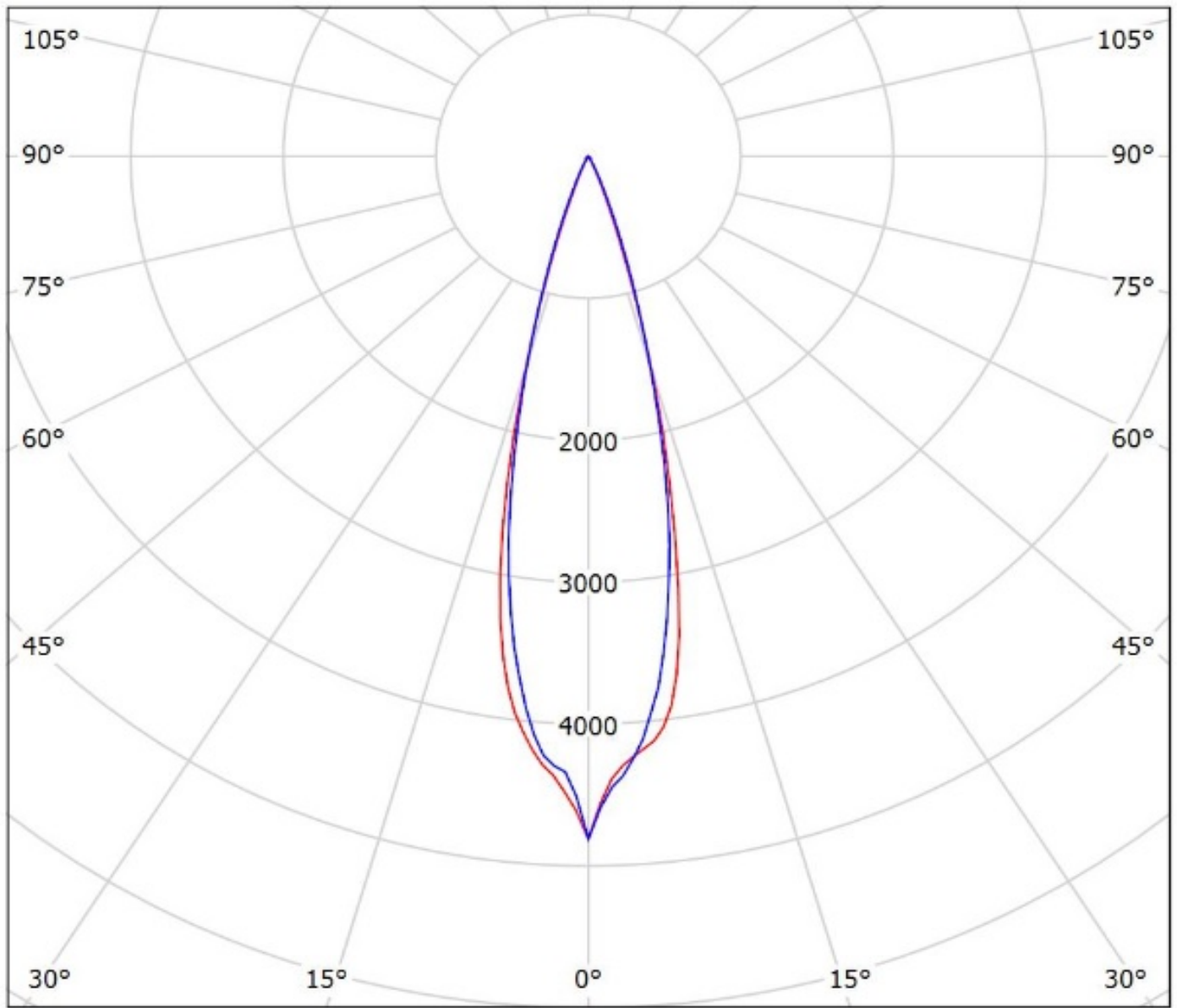
Luminaire: Ledil CA14509\_G2-LXP2-M-P\_(XP-L)  
Lamps: 1 x CREE\_XP-L\_(XPLAWT-0-7A3-U50-0H-0001)  
\_107.852lm@250mA\_CCT=3185K\_P=0.7W\_I=0.25A



cd/klm  
— C0 - C180 — C90 - C270

$\eta = 85\%$

Luminaire: Ledil Oy CA14509\_G2-LXP2-M-P\_XP-G2\_SIMULATED  
Lamps: 1 x CREE XP-G2

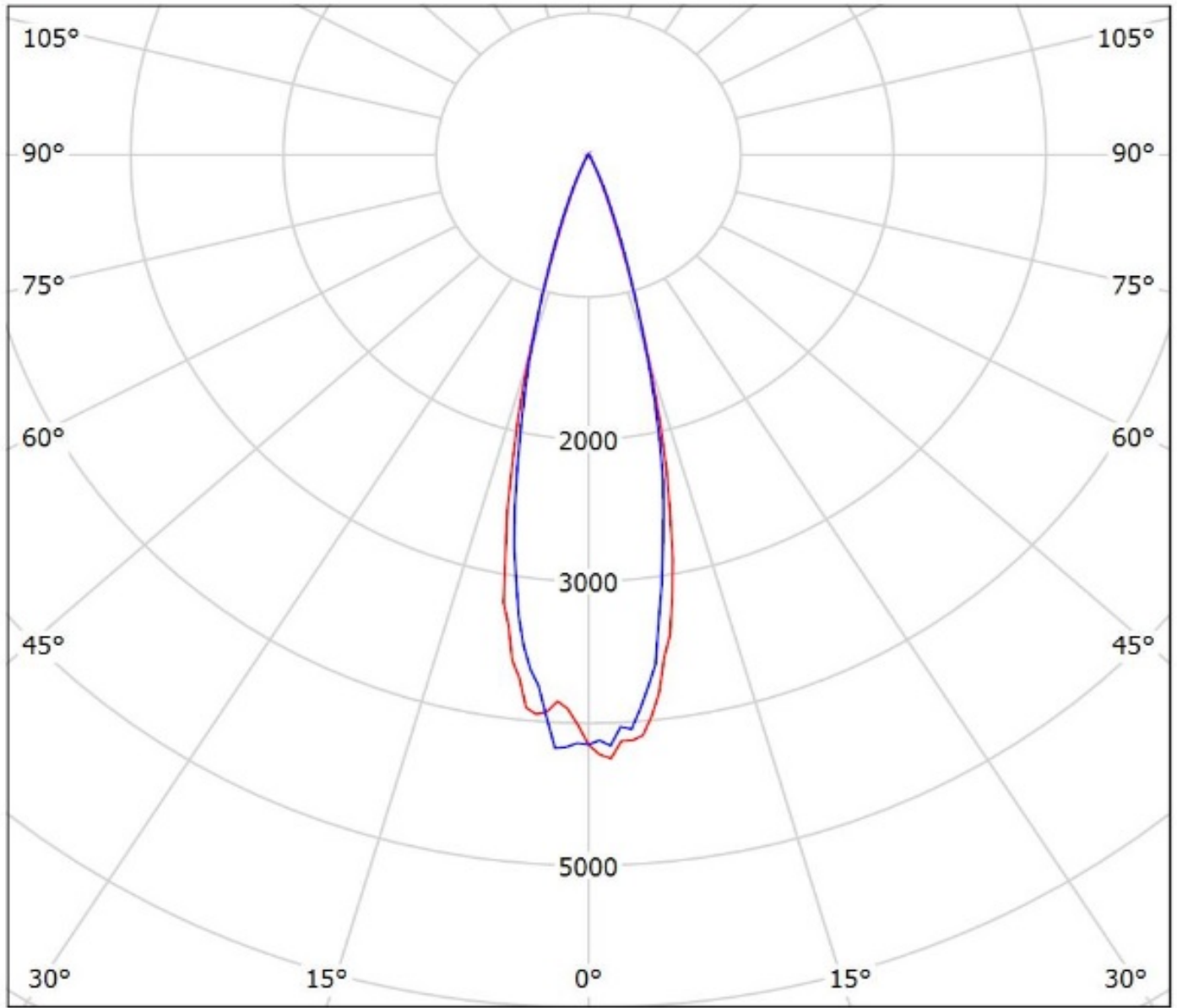


cd/klm

— C0 - C180 — C90 - C270

$\eta = 93\%$

Luminaire: Ledil Oy CA14509\_G2-LXP2-M-P\_XT-E\_SIMULATED  
Lamps: 1 x CREE XT-E



cd/klm

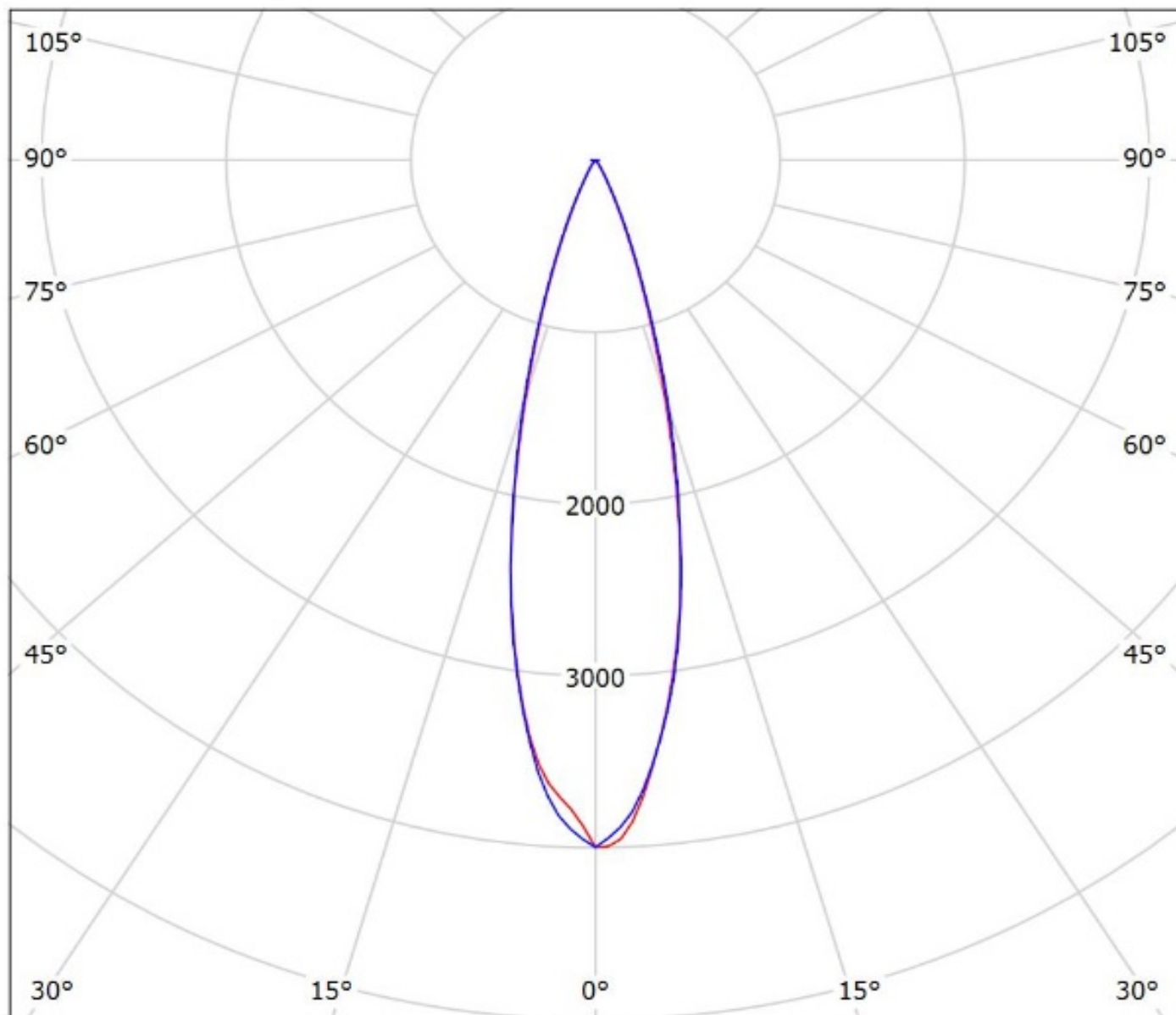
— C0 - C180 — C90 - C270

$\eta = 89\%$



Luminaire: Ledil Oy CA14509\_G2-LXP2-M-P\_(XP-G3)\_SIMULATED

Lamps: 1 x Cree XP-G3

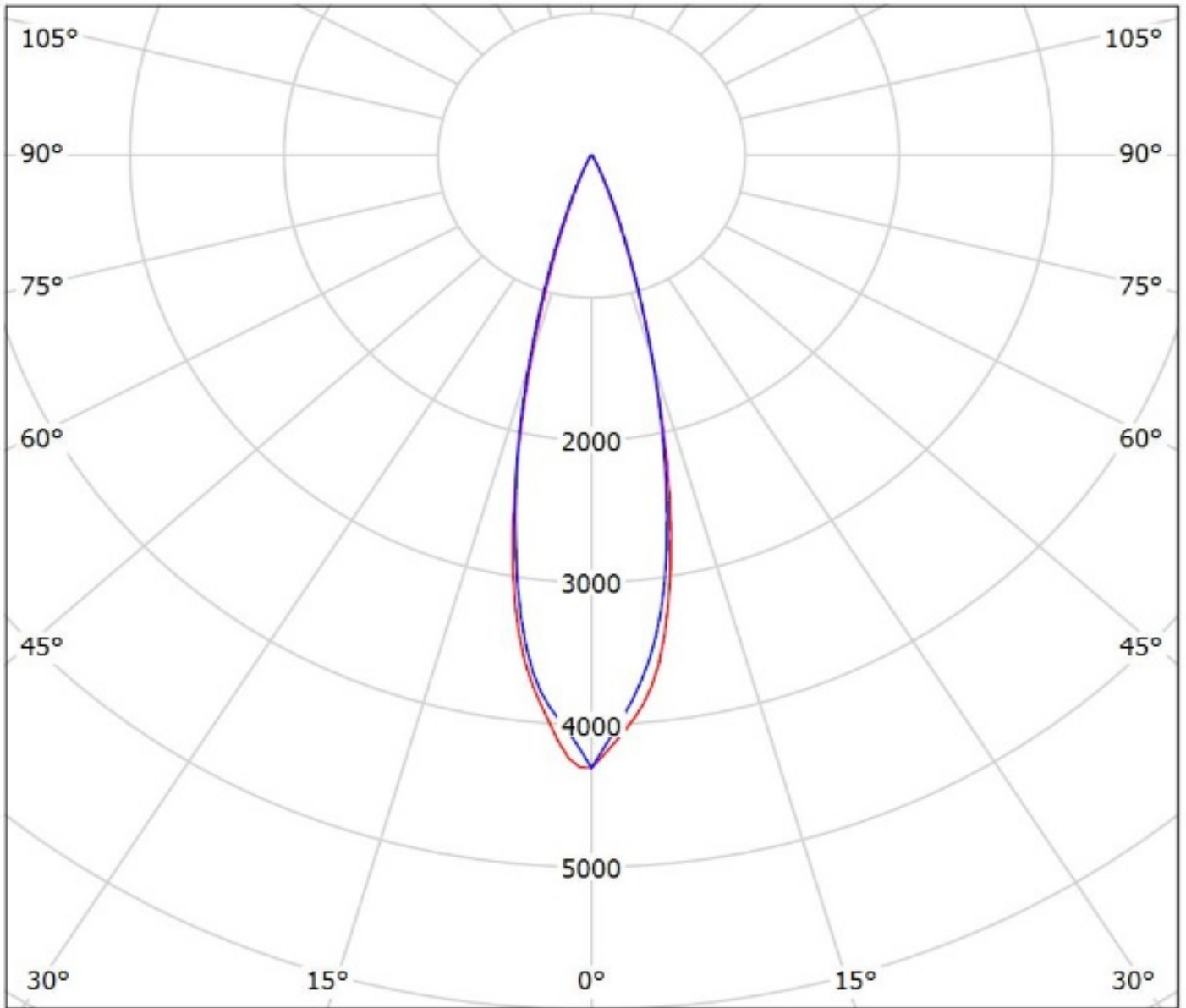


cd/klm

— C0 - C180 — C90 - C270

$\eta = 89\%$

Luminaire: Ledil Oy CA14509\_G2-LXP2-M-P\_(LG\_H35C1)\_SIMULATED  
Lamps: 1 x LG H35C1

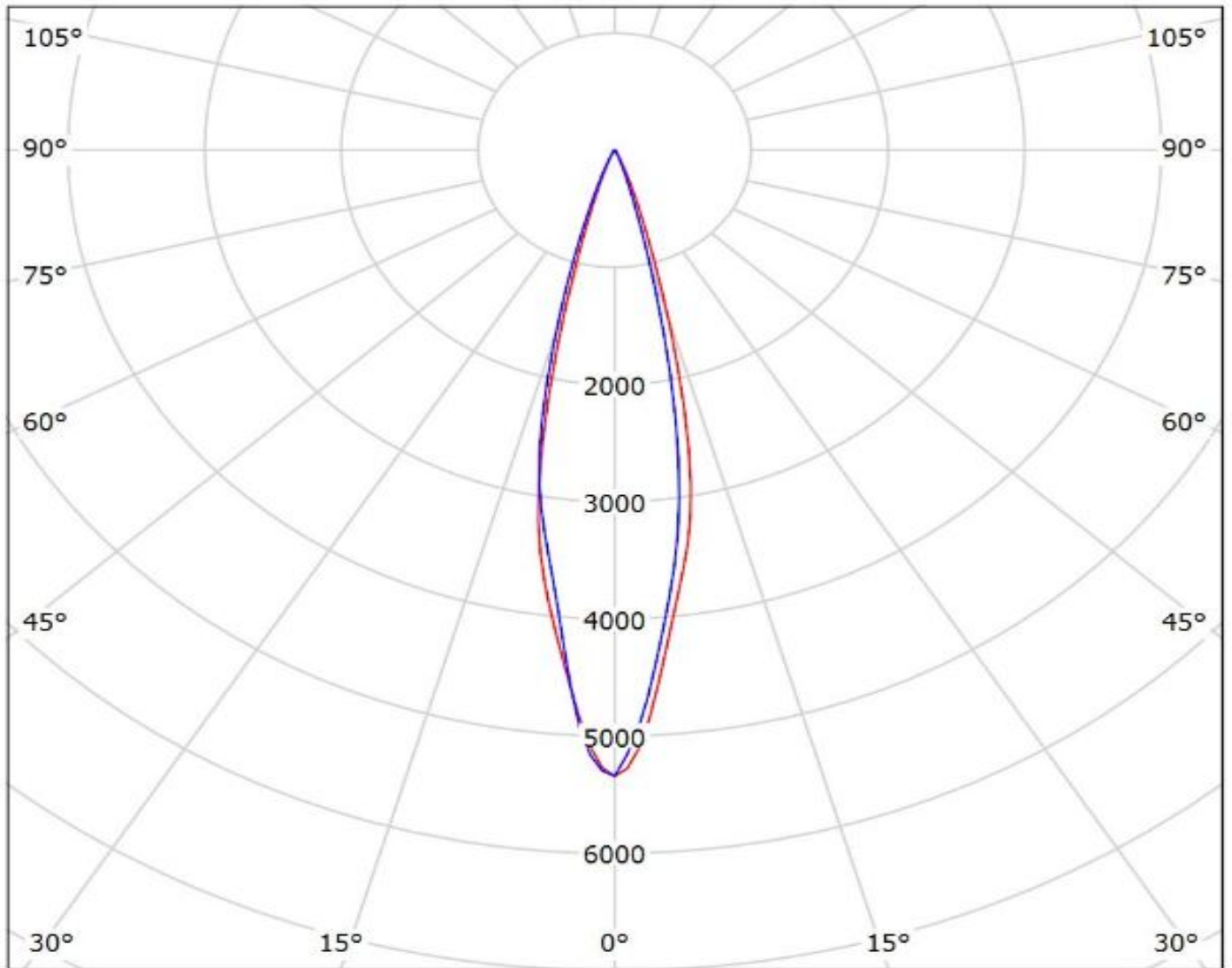


cd/klm  
— C0 - C180 — C90 - C270

$\eta = 91\%$

Luminaire: Ledil CA14509\_G2-LXP2-M-P\_(LUXEON\_C)

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

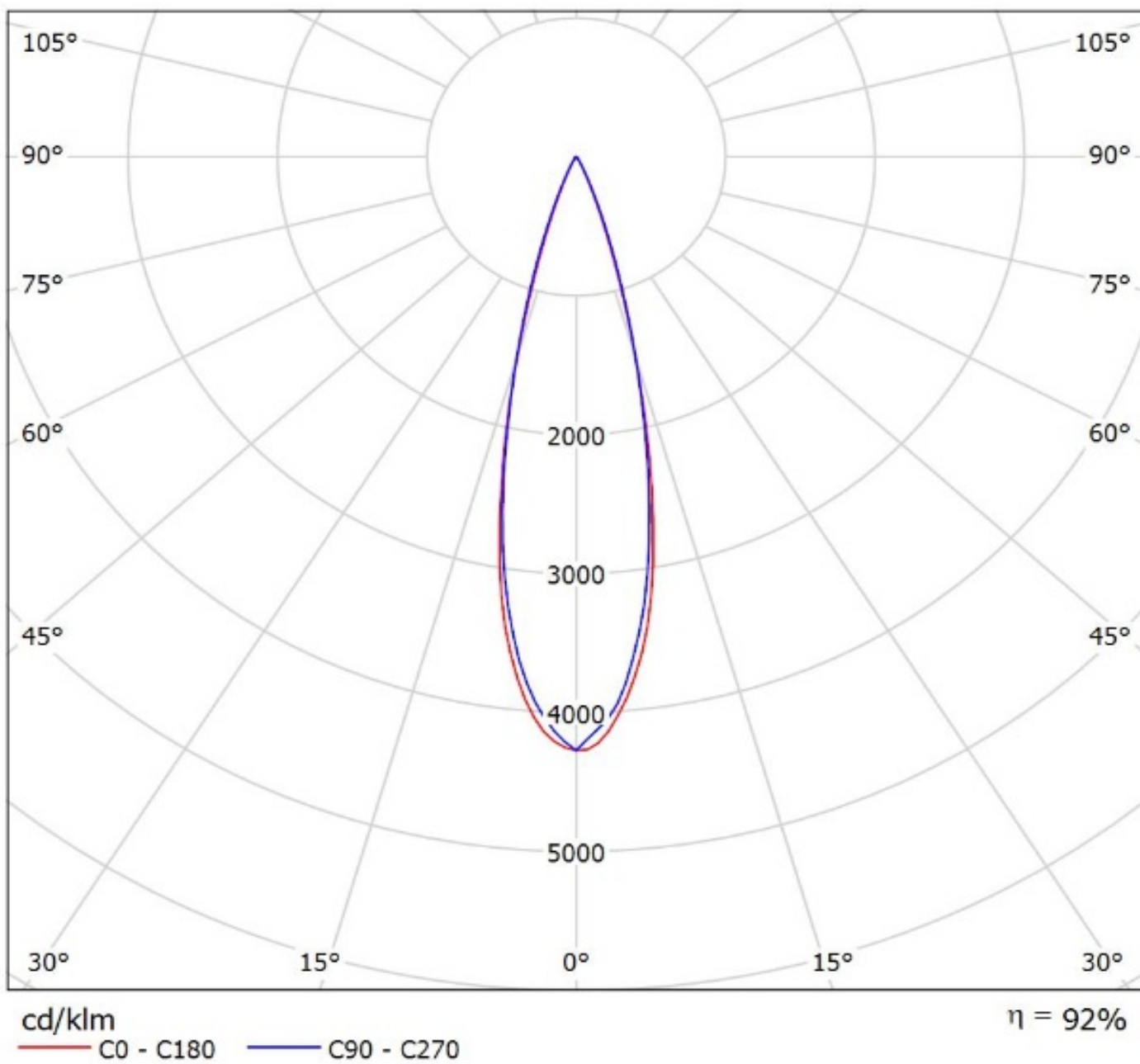


cd/klm

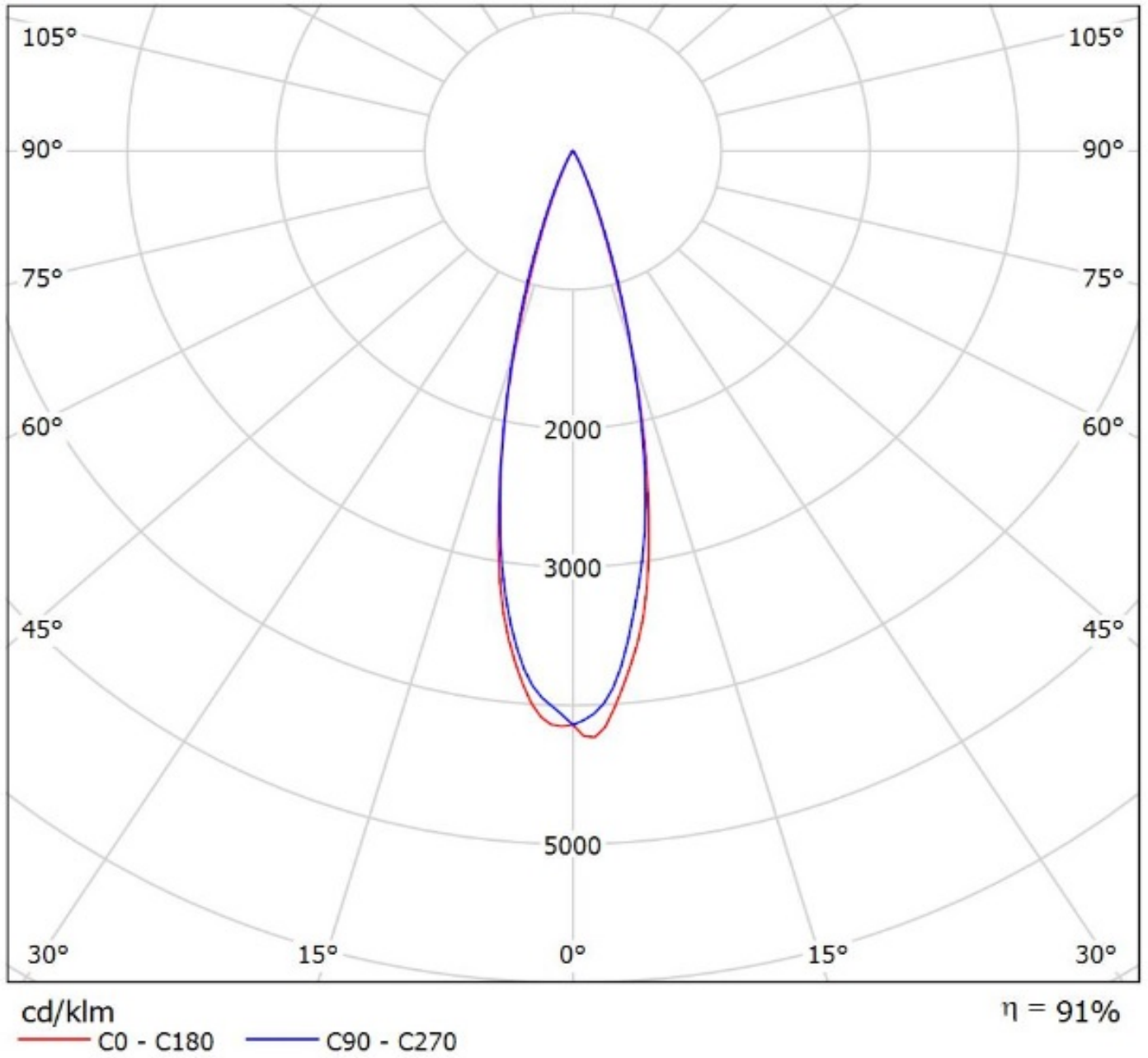
— C0 - C180 — C90 - C270

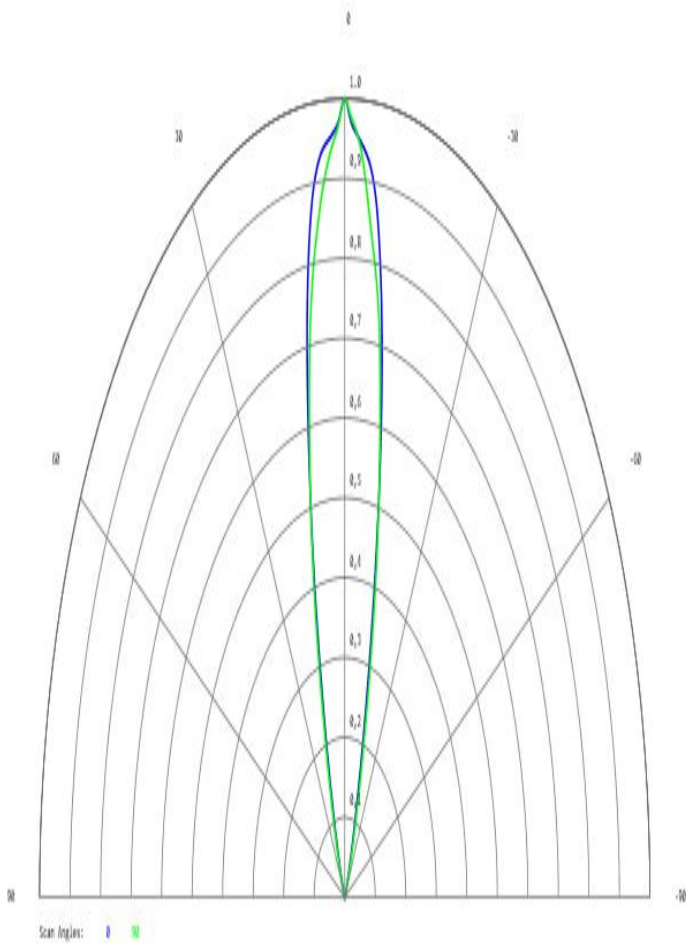
$\eta = 82\%$

Luminaire: Ledil Oy CA14509\_G2-LXP2-M-P\_(Luxeon\_T)\_SIMULATED  
Lamps: 1 x Lumileds Luxeon T



Luminaire: Ledil Oy CA14509\_G2-LXP2-M-P\_(Luxeon\_TX)\_SIMULATED  
Lamps: 1 x Lumileds Luxeon TX



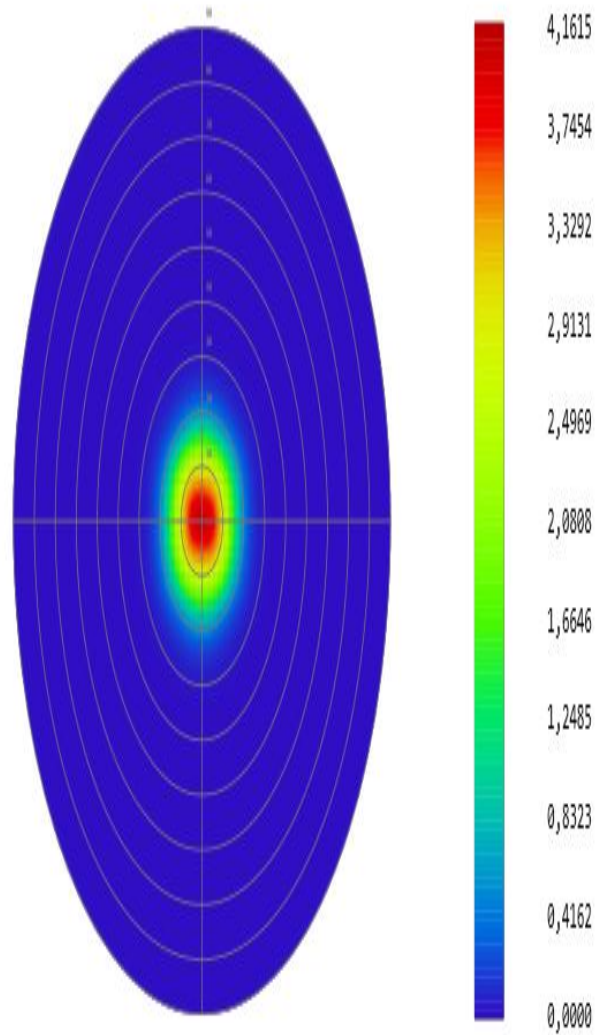


Scan Angles: ■ ■

Detector Image: Radiant Intensity

16.5.2017  
 Detector 4, NSCG Surface 1:  
 Scan Angles: 0, 90  
 Peak Intensity : 4,278E+00 Watts/Steradian

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

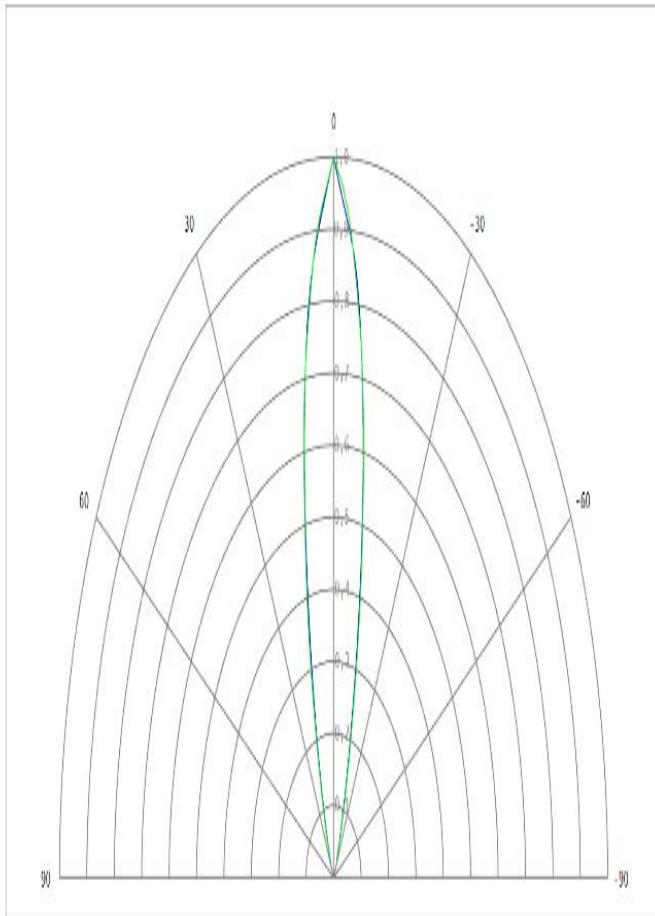


Detector Image: Radiant Intensity

16.5.2017  
 Detector 4, NSCG Surface 1:  
 Max polar angle: 90,00 deg, Total Hits = 2305355  
 Peak Intensity : 4,162E+00 Watts/Steradian  
 Total Power : 8,373E-01 Watts

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





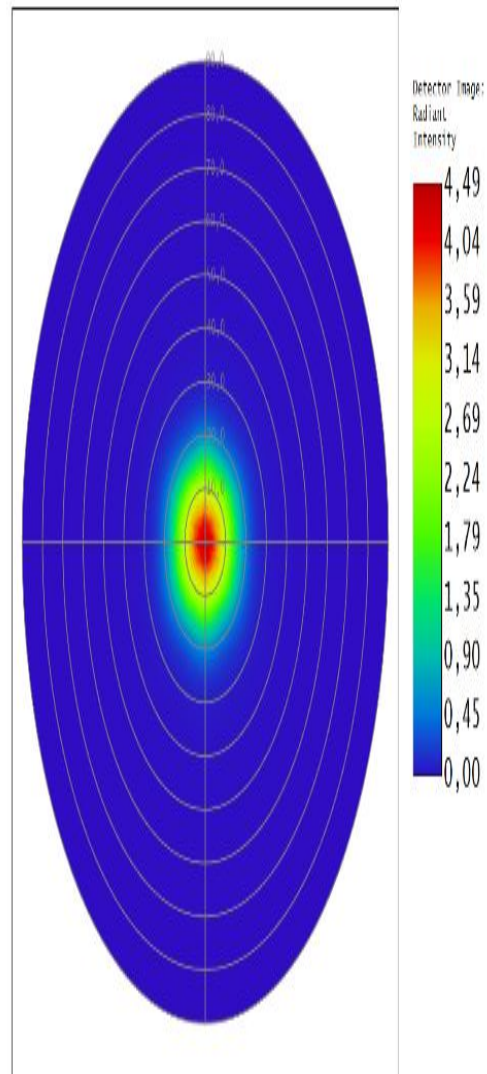
0 90

Detector Image: Radiant Intensity

25.7.2017  
 Detector 7, NSCG Surface 1:  
 Scan Angles: 0, 90  
 Peak Intensity : 4,486E+00 Watts/Steradian

Zemax  
 Zemax OpticStudio 16.5 SP3

C:\Users\...\_C2-LVPC-M-P...\_SIMULATED.zmx  
 Configuration 1 of 1

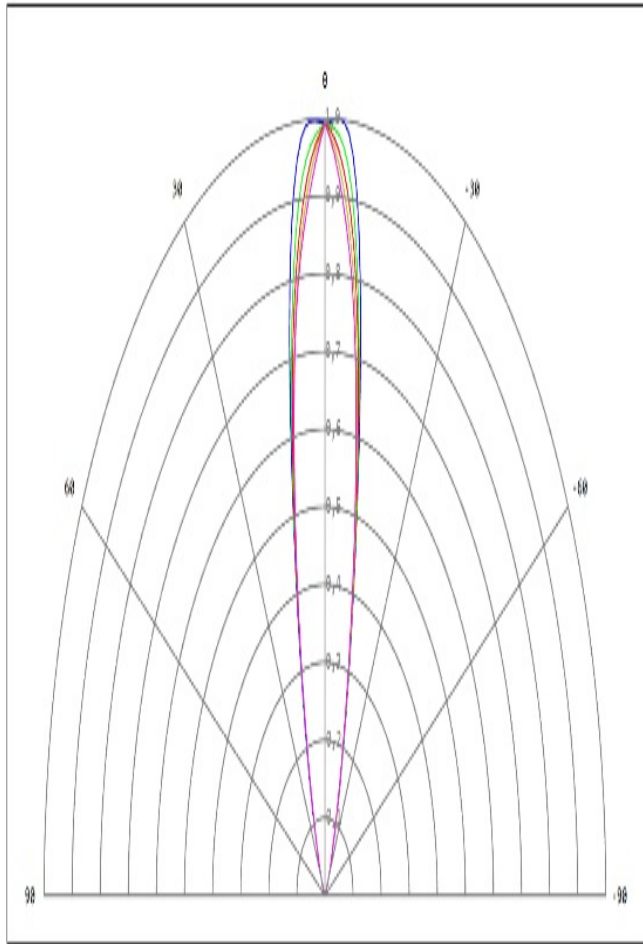


Detector Image: Radiant Intensity

25.7.2017  
 Detector 7, NSCG Surface 1:  
 Max polar angle: 90,00 deg, Total Hits = 4410570  
 Peak Intensity : 4,486E+00 Watts/Steradian  
 Total Power : 8,793E-01 Watts

Zemax  
 Zemax OpticStudio 16.5 SP3

C:\Users\...\_C2-LVPC-M-P...\_SIMULATED.zmx  
 Configuration 1 of 1



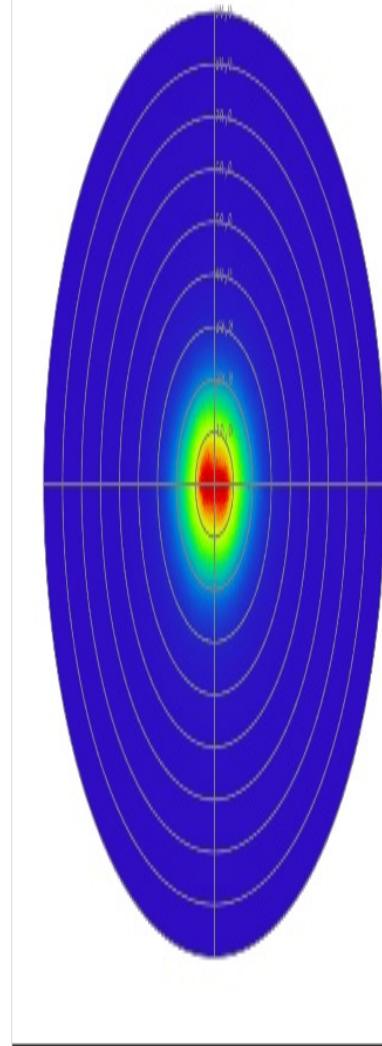
0 30 45 60 90

Detector Image: Radiant Intensity

26.7.2017  
 Detector 7, NSCG Surface 1:  
 Scan Angles: 0, 30, 45, 60, 90  
 Peak Intensity : 3,963E+00 Watts/Steradian

Zemax  
 Zemax OpticStudio 16.5 SP1

C:\4580\_Q2-LV2-N-P (LUREN DR DOPRO)\_SIMULATED.zmx  
 Configuration 1 of 1



Detector Image:  
 Radiant  
 Intensity

4,16  
 3,75  
 3,33  
 2,91  
 2,50  
 2,08  
 1,66  
 1,25  
 0,83  
 0,42  
 0,00

Detector Image: Radiant Intensity

26.7.2017  
 Detector 7, NSCG Surface 1:  
 Max polar angle: 90,00 deg, Total Hits = 37168805  
 Peak Intensity : 4,162E+00 Watts/Steradian  
 Total Power : 8,986E-01 Watts

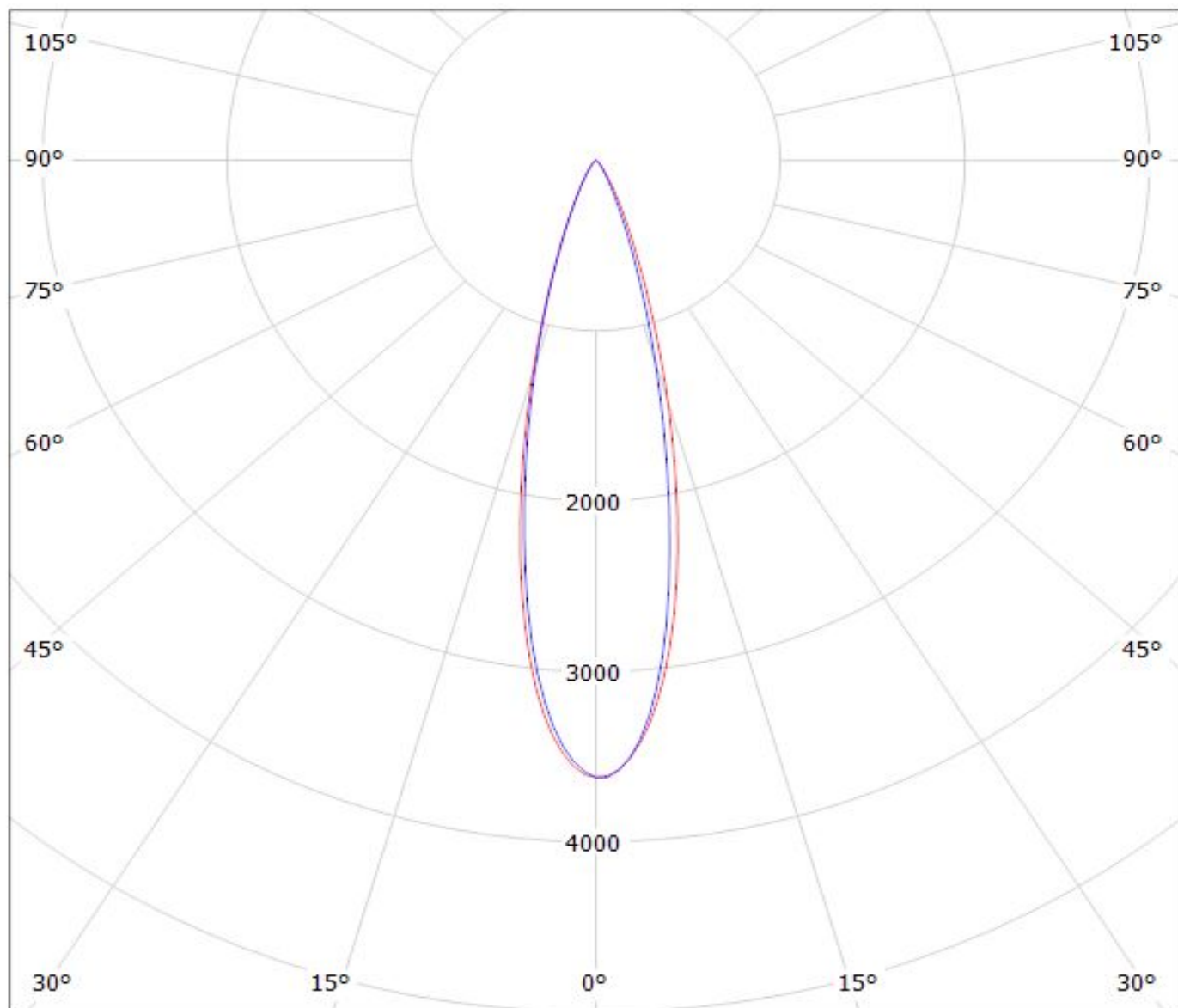
Zemax  
 Zemax OpticStudio 16.5 SP1

C:\4580\_Q2-LV2-N-P (LUREN DR DOPRO)\_SIMULATED.zmx  
 Configuration 1 of 1



Luminaire: LEDiL Oy CA14509\_G2-LXP2-M-P\_(Luxeon\_V)

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



cd/klm

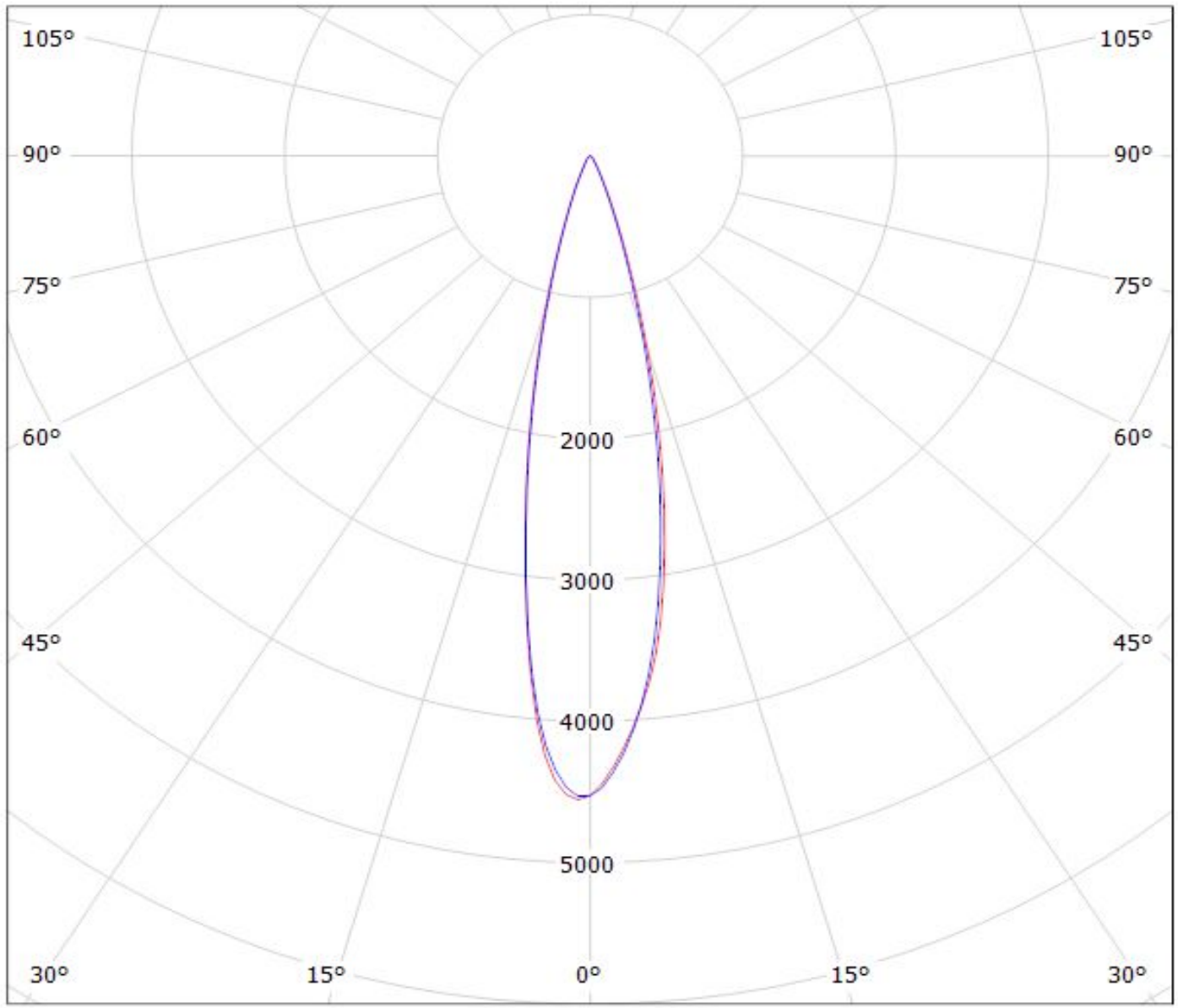
— C0 - C180

— C90 - C270

$\eta = 86\%$

Luminaire: LEDiL Oy CA14509\_G2-LXP2-M-P\_(Nichia\_NCSxx19A)

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



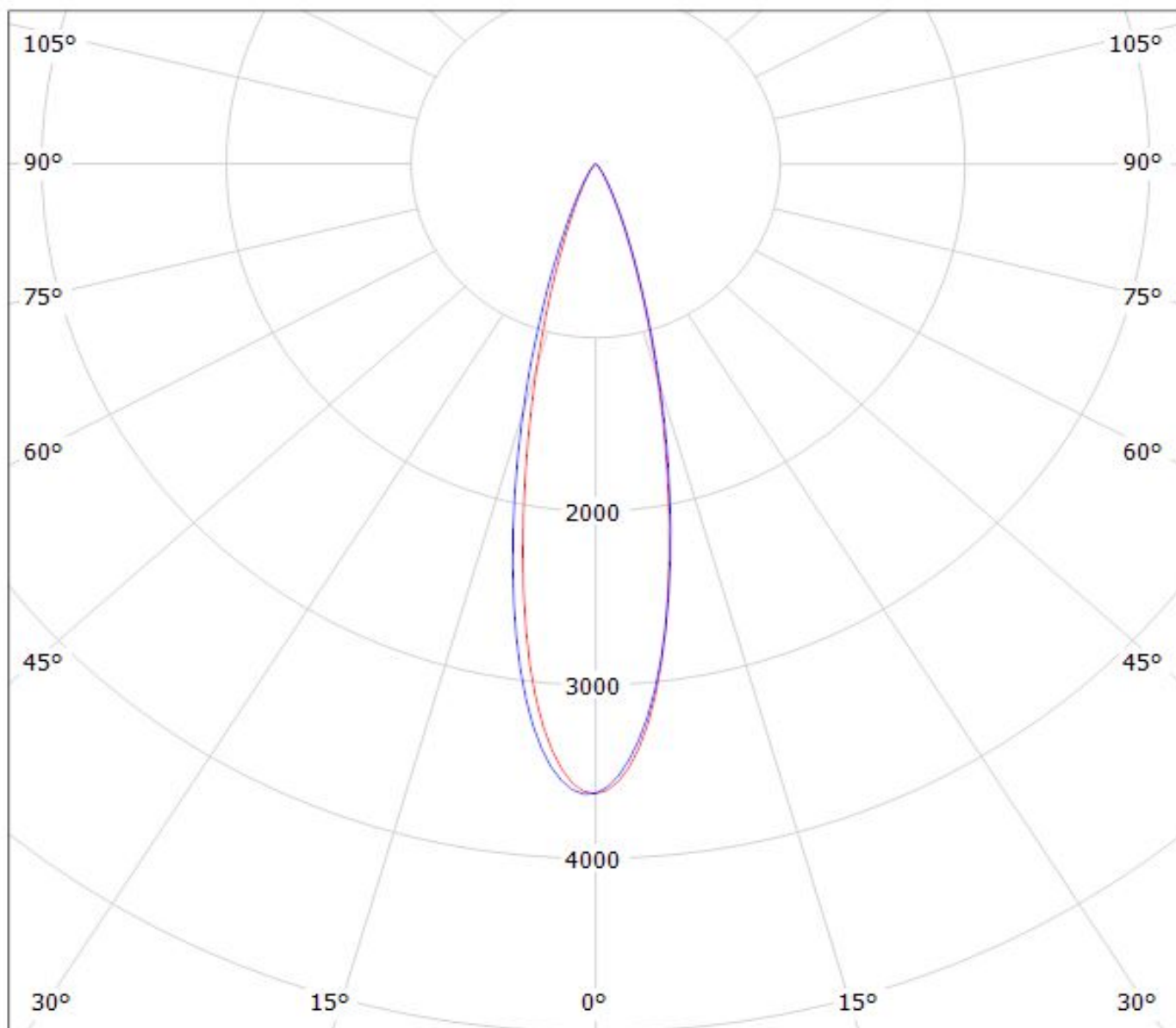
cd/klm

— C0 - C180 — C90 - C270

$\eta = 86\%$

Luminaire: LEDiL Oy CA14509\_G2-LXP2-M\_(NWSL229AE)

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



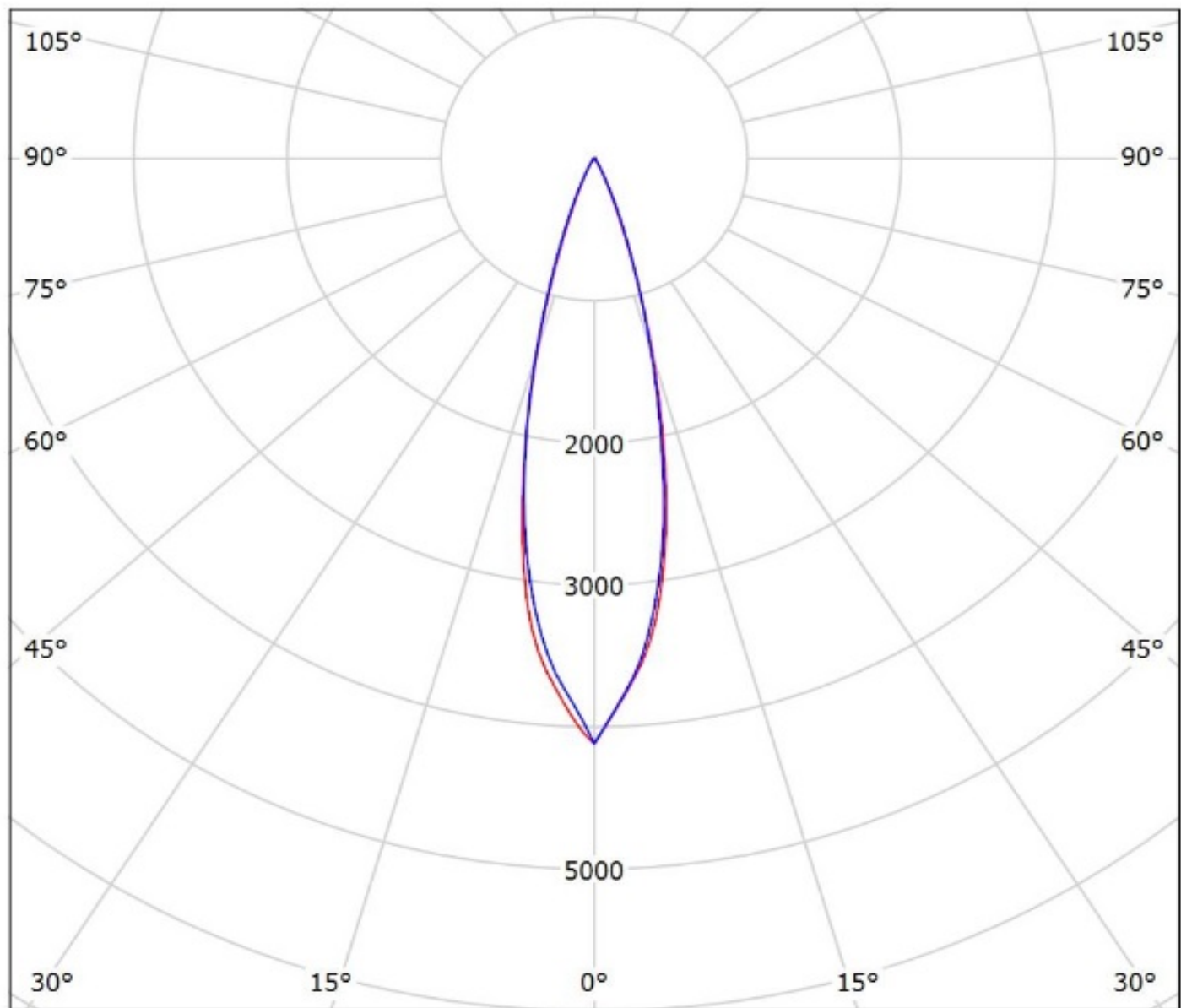
cd/klm

— C0 - C180

— C90 - C270

$\eta = 86\%$

Luminaire: Ledil Oy CA14509\_G2-LXP2-M-P\_(NVSxx19B)\_SIMULATED  
Lamps: 1 x Nichia NVSxx19V (NVSW219B)



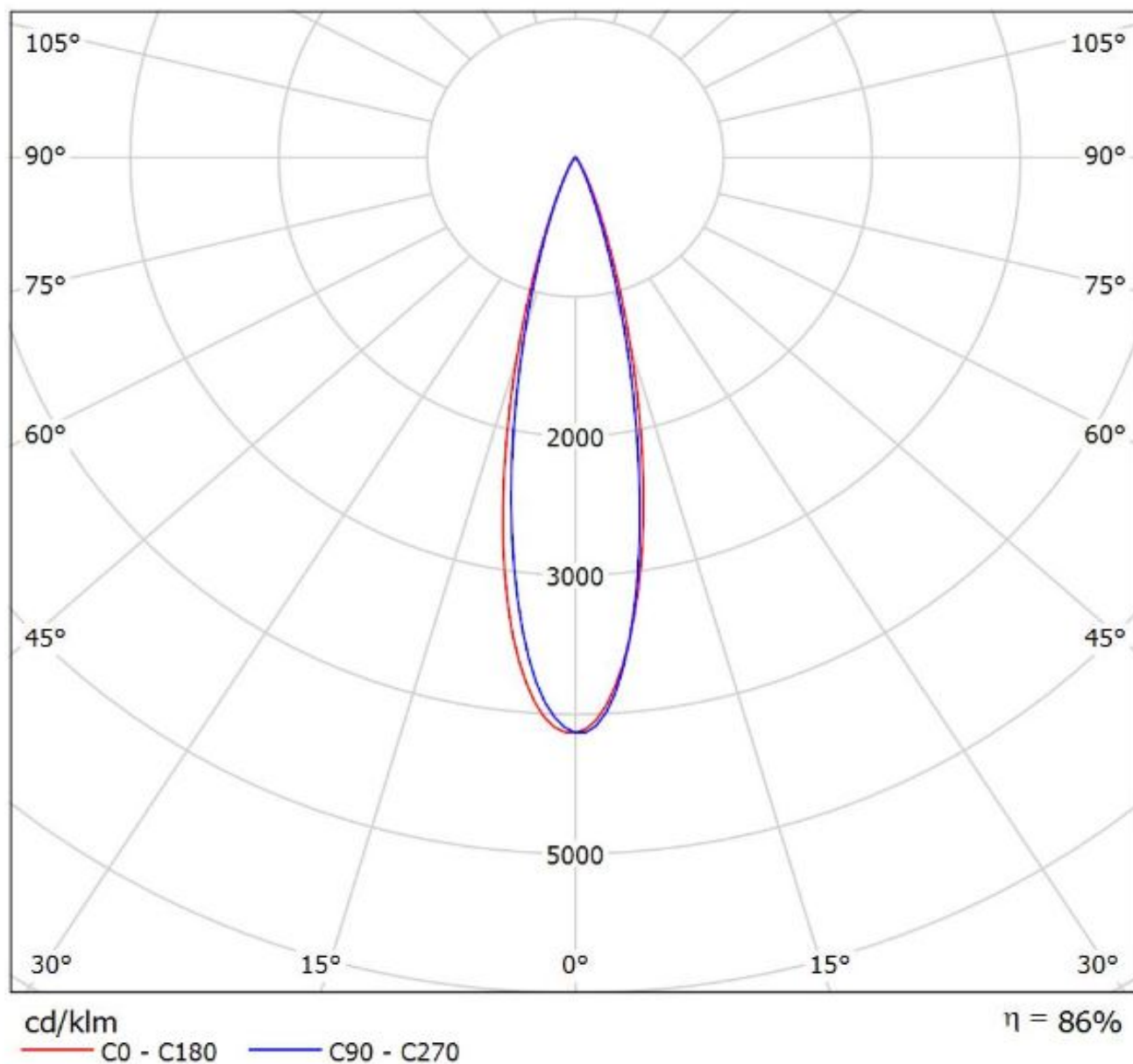
cd/klm

— C0 - C180 — C90 - C270

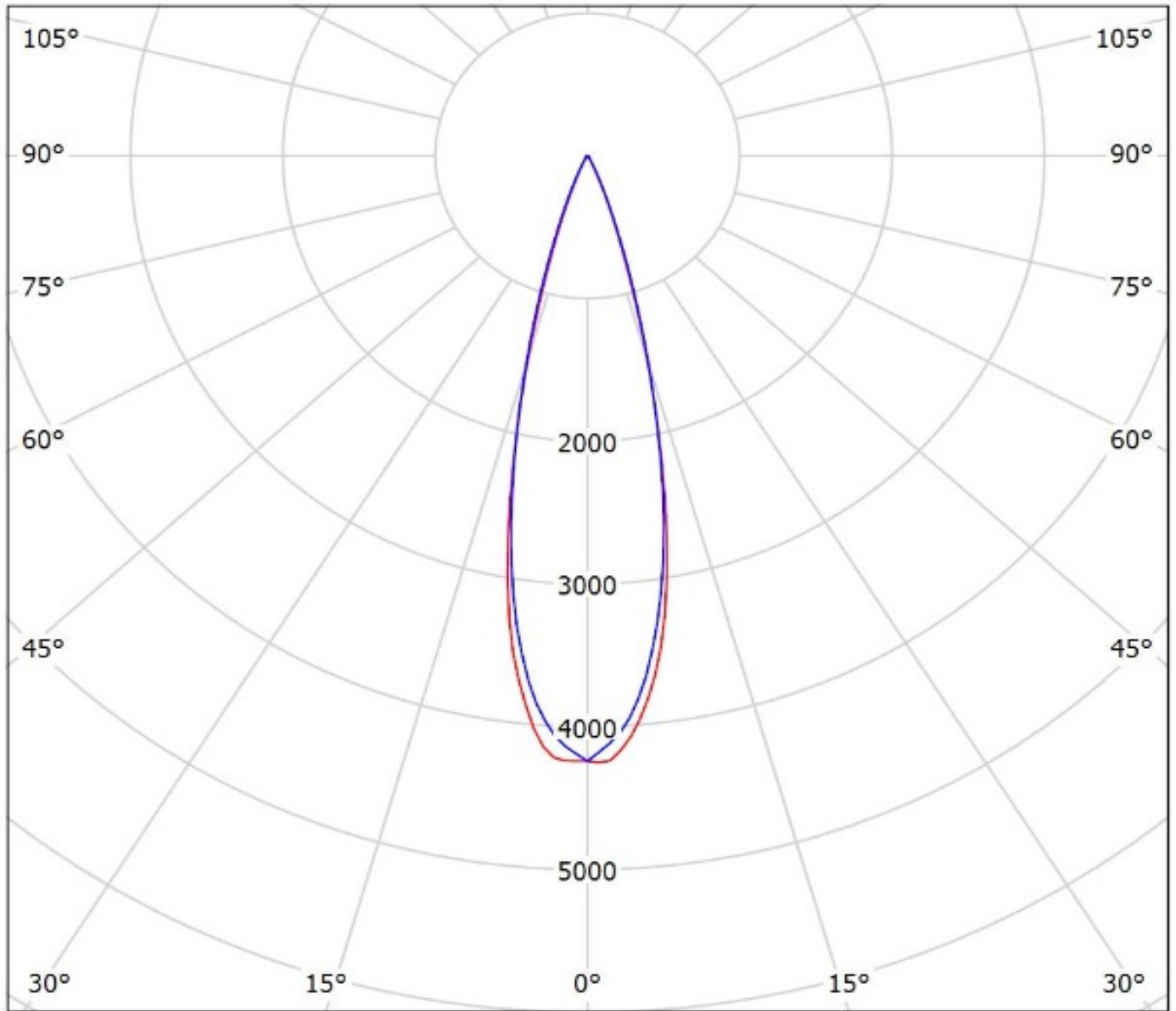
$\eta = 88\%$

Luminaire: LEDiL Oy CA14509\_G2-LXP2-M-P\_(NVSW3x9A)

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



Luminaire: Ledil Oy CA14509\_G2-LXP2-M-P\_(Oslon\_Square\_Gen3)\_SIMULATED  
Lamps: 1 x Osram Oslon Square Gen 3 (GW\_CSSRM2.PC)

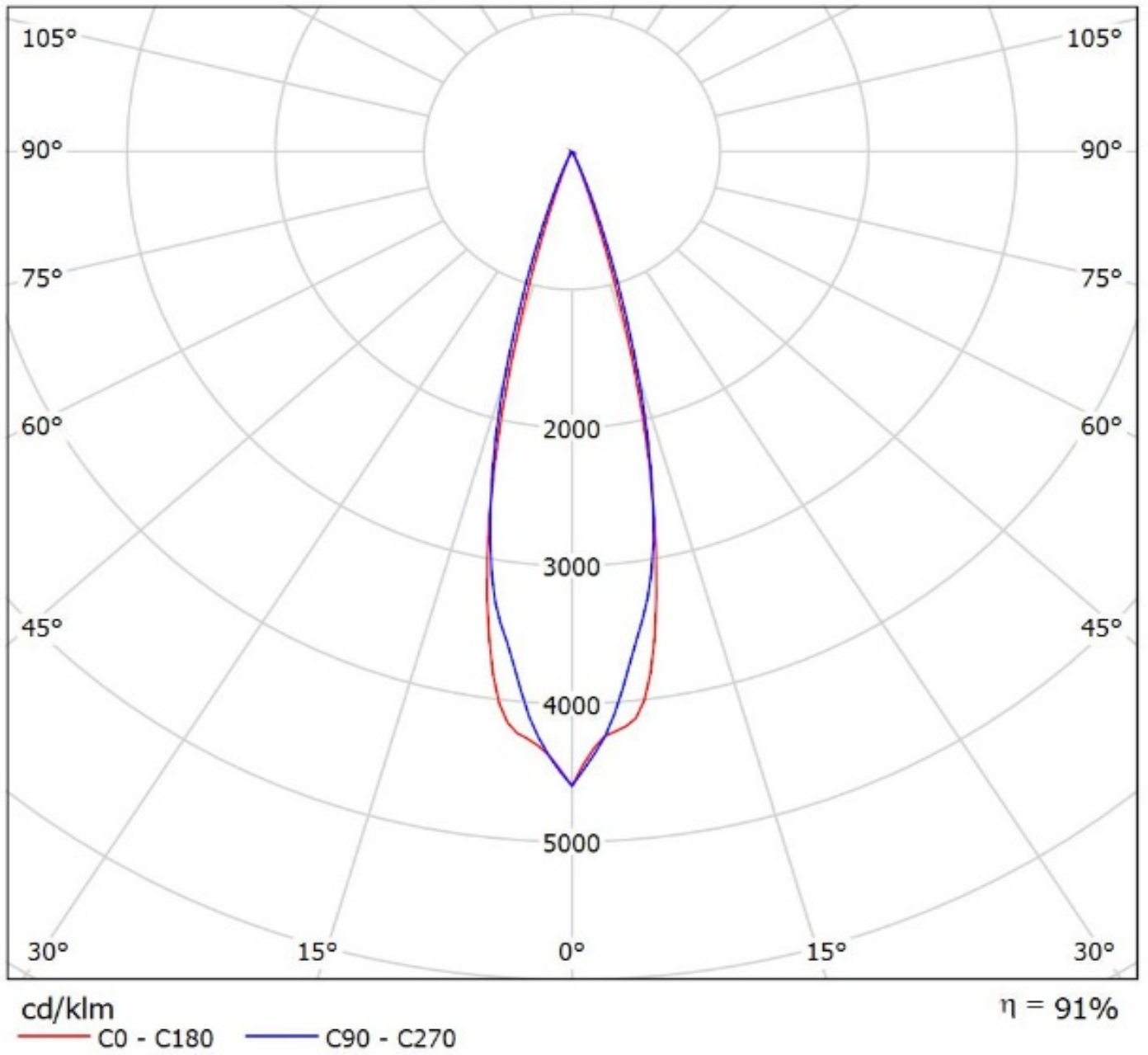


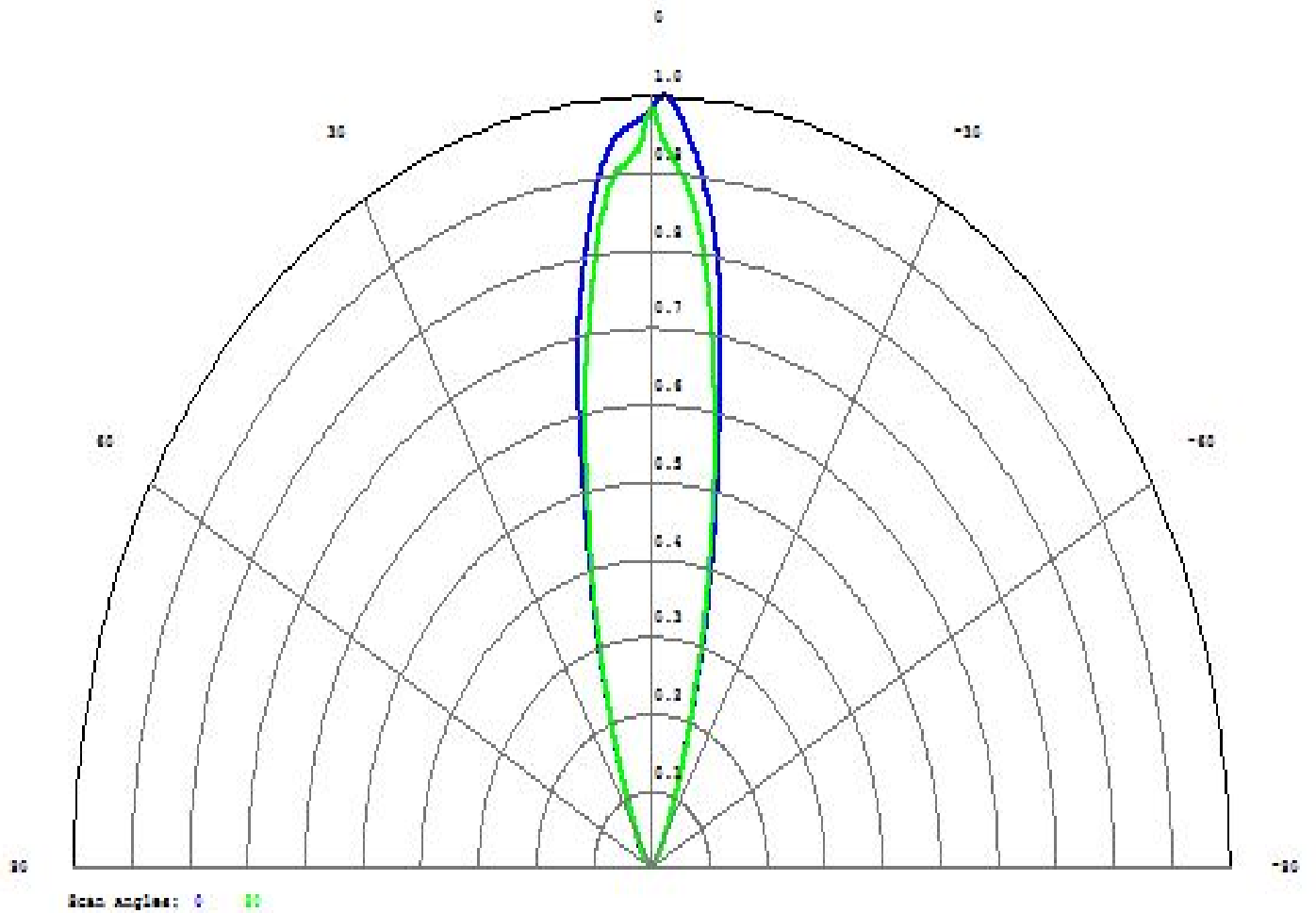
cd/klm  
— C0 - C180 — C90 - C270

$\eta = 92\%$



Luminaire: Ledil Oy CA14509\_G2-LXP2-M-P\_(Oslon\_SSL\_80)\_SIMULATED  
Lamps: 1 x Osram Oslon SSL 80 (LA CP7P)






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Detector Image: Radiant Intensity

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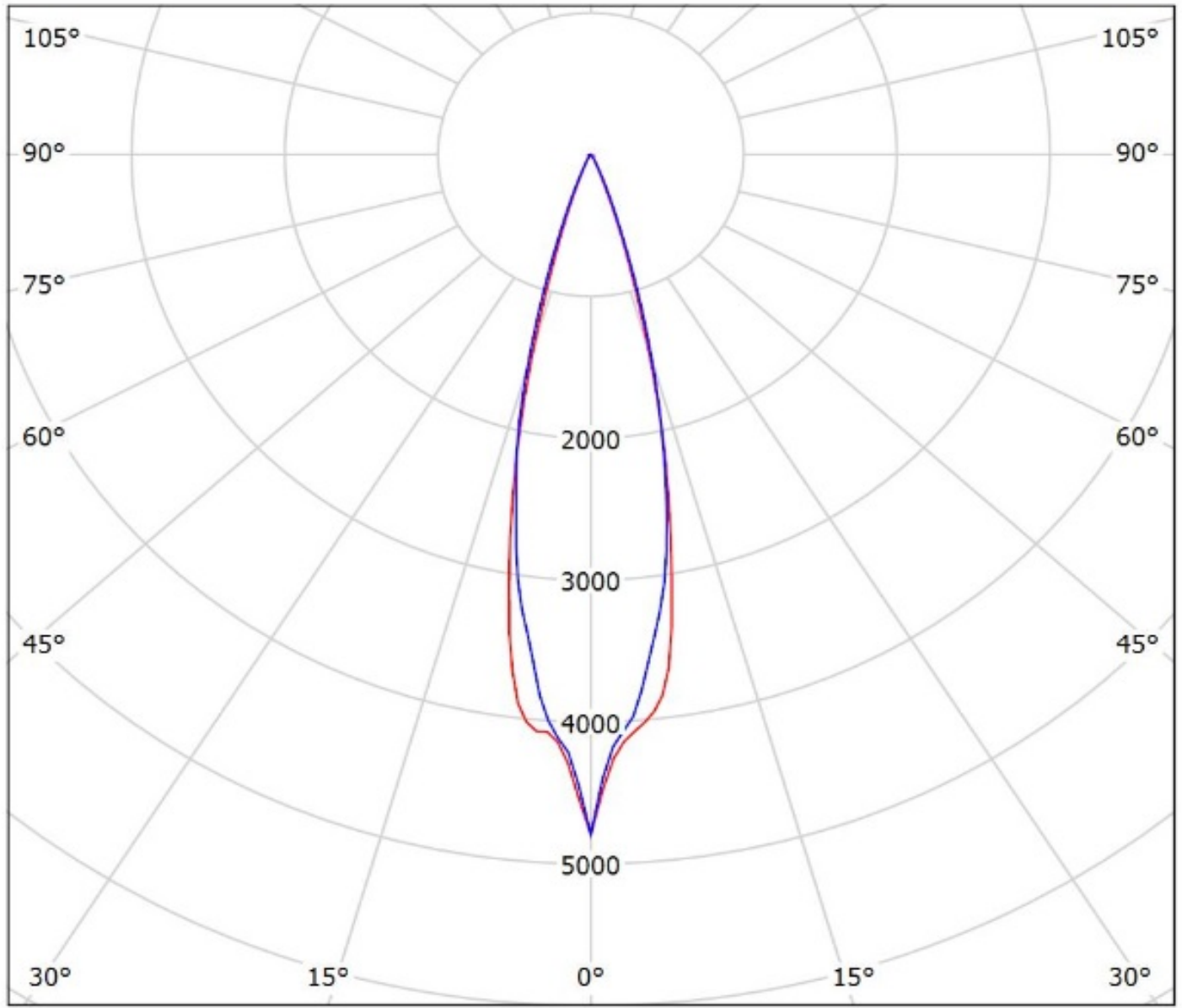
8.4.2016  
 Detector 4, NSCG Surface 1:  
 Scan Angles: 0, 90  
 Peak Intensity : 3.254E+000 Watts/Steradian

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CA14509\_G2-LXP2-M-P\_SFH\_4770S.ZMK  
 Configuration 1 of 1



Luminaire: Ledil Oy CA14509\_G2-LXP2-M-P\_(Oslon\_Black\_Flat)\_SIMULATED  
Lamps: 1 x Osram Oslon Black Flat (LUW HWQP)

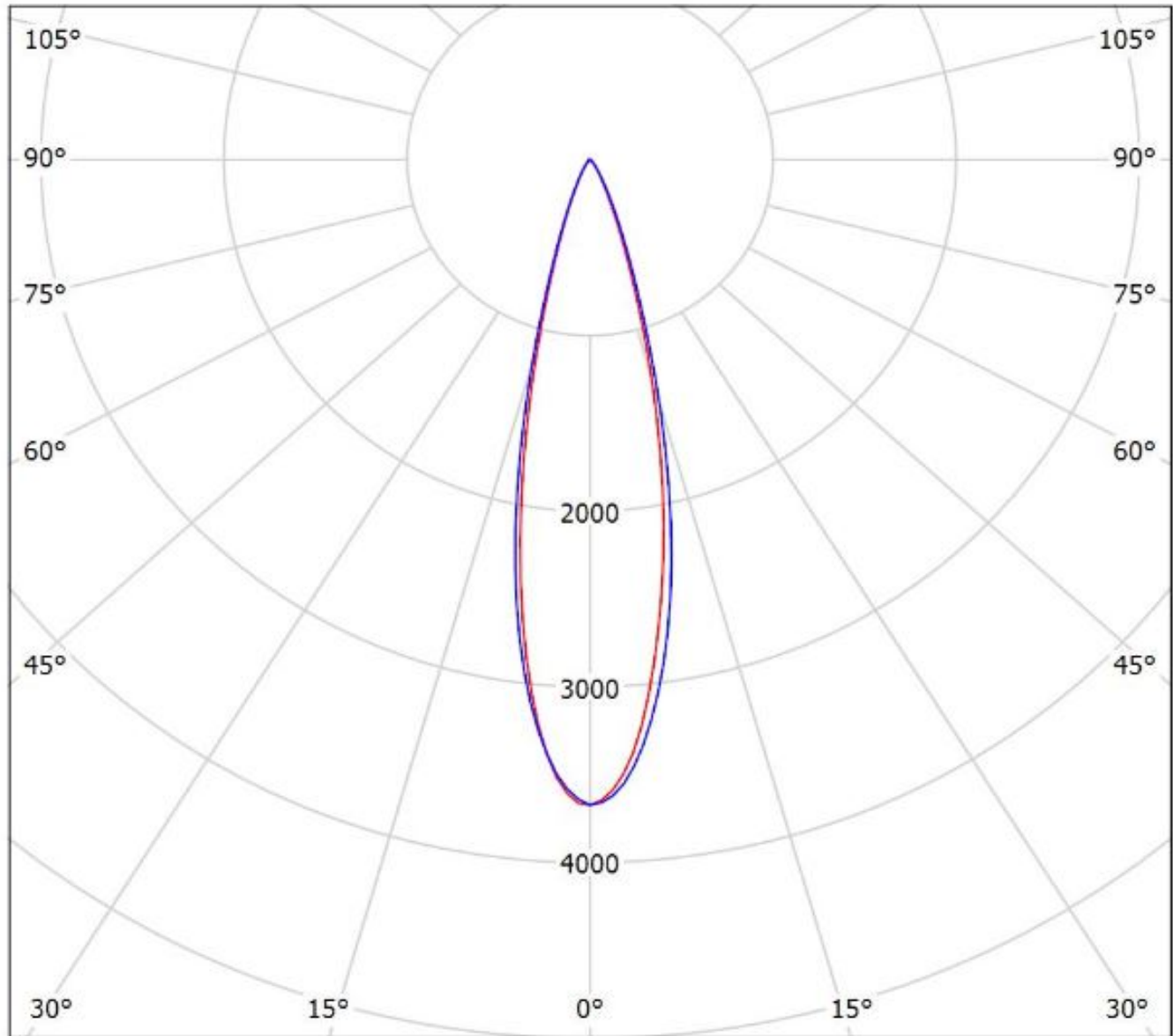


cd/klm  
— C0 - C180 — C90 - C270

$\eta = 91\%$

Luminaire: LEDiL Oy CA14509\_G2-LXP2-M-P\_(Z8Y22plus)

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



cd/klm

— C0 - C180 — C90 - C270

$\eta = 81\%$

**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.**