

## DETAILS

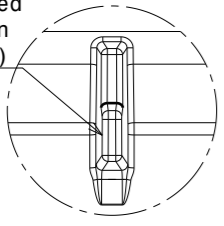
<b>Product Number</b>	F16048_LINNEA-UP
<b>Family</b>	Linnea
<b>Type</b>	Lens
<b>Color</b>	clear
<b>Diameter</b>	mm
<b>Height</b>	mm
<b>Style</b>	rectang
<b>Optic Material</b>	PC
<b>Holder Material</b>	
<b>Fastening</b>	clips
<b>Status</b>	sample approved
<b>ROHS Compliant</b>	Yes
<b>Date Updated</b>	11/12/2017

## OPTICAL PROPERTIES

LED	Viewing Angle	Light Beam	Efficiency	cd/lm	Connector
Tridino 1ft 1100lm xxxHE 1R HV	Asymmetric deg	Wide-Area...	79 %	0.320	-
XP-E	Asymmetric deg	Wide-Area...	76 %	0.300	-
NF2x757G	Asymmetric deg	Wide-Area...	77 %	0.320	-
PrevaLED Linear Slim 3 (1100lm)	Asymmetric deg	Wide-Area...	74 %	0.270	-
Duris S5 (2 chip)	Asymmetric deg	Wide-Area...	75 %	0.270	-
PrevaLED Linear Slim 3 (2000lm)	Asymmetric deg	Wide-Area...	74 %	0.270	-
Duris S5 (Single chip)	Asymmetric deg	Wide-Area...	76 %	0.280	-
Fortimo LED Strip 1ft 1100lm FC HV4 & L	Asymmetric deg	Wide-Area...	73 %	0.250	-
Fortimo LED Strip 1ft 650lm FC HV4 & L	Asymmetric deg	Wide-Area...	73 %	0.240	-
LT-S282H	Asymmetric deg	Wide-Area...	77 %	0.320	-
LT-Q282B	Asymmetric deg	Wide-Area...	77 %	0.310	-
LT-H282C	Asymmetric deg	Wide-Area...	77 %	0.310	-
LT-V282E	Asymmetric deg	Wide-Area...	77 %	0.320	-
SunLike 3030	Asymmetric deg	Wide-Area...	76 %	0.280	-
LLE G4 24x280mm 650lm	Asymmetric deg	Wide-Area...	75 %	0.270	-
LLE G4 24x280mm 2000lm ADV	Asymmetric deg	Wide-Area...	75 %	0.260	-
LLE G4 24x280mm 1250lm	Asymmetric deg	Wide-Area...	75 %	0.270	-



Dimensions measured from outer edge in (Auxiliary view A)



Detail C  
Scale: 4:1

Auxiliary view A  
Scale: 1:1

Left view  
Scale: 1:1

Front view  
Scale: 2:1

180

20

95.2

16.56

40

End area

9.6

9.19

71.2

C

117

132

107

10.33

285.1

281,5mm effective length

End area max width

18.1

Snap on for 1mm plate

1.1

Section view B-B  
Scale: 2:1

4.56

4.95

Typical max height for components

End area max height for components

2.7

PCB max width: 24mm  
PCB thickness: 1,6mm

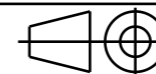
PART NO	MATERIAL
F16048_LINNEA-UP	Polycarbonate

Tolerances if not otherwise shown  
According to DIN ISO 2768-1  
Linear measures:  
Up to 30mm class F, otherwise see class MC.  
According to DIN ISO 2768-2  
Form and position: class K  
Control for SPC marked dimensions.



Ledil Oy  
Salorankatu 10  
FIN 24240 SALO  
Finland

First angle projection



DRAWING TITLE

LINNEA-UP Mechanical Drawing

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SIZE PART NUMBER

A3

F16048

SCALE 1:1 WEIGHT 36,13 g

SHEET 1/2

H

G

B

A

H G F E D C B A

4

4

3

3

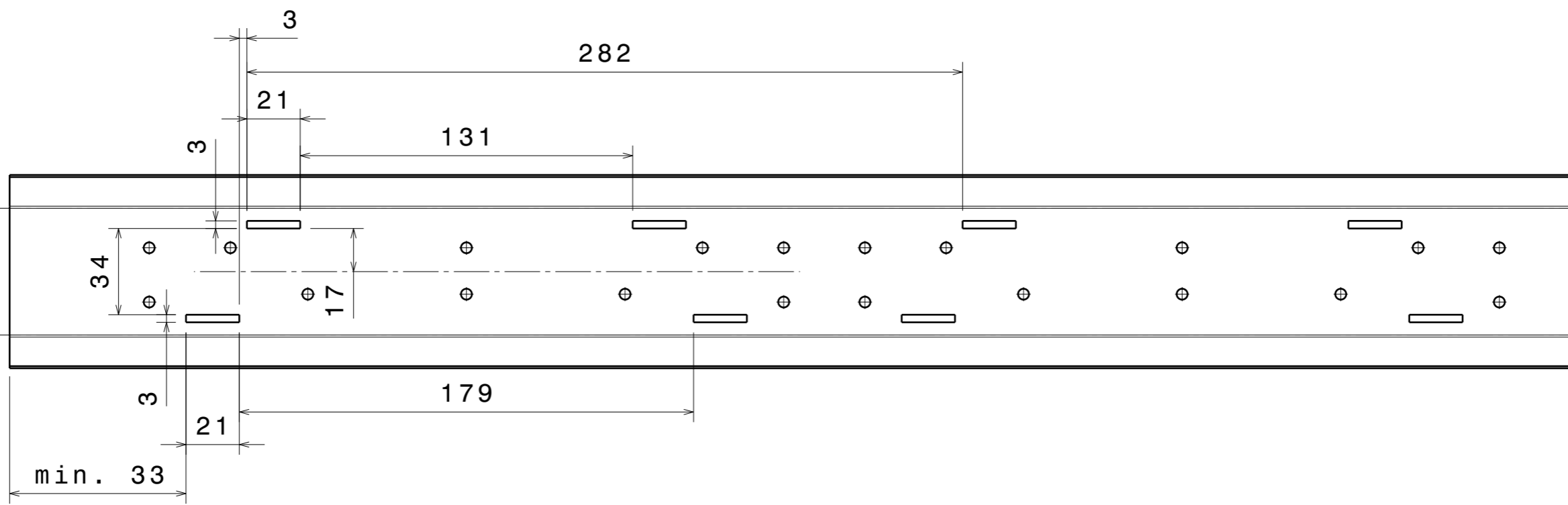
2


2

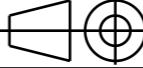
1

1

H G F E D C B A

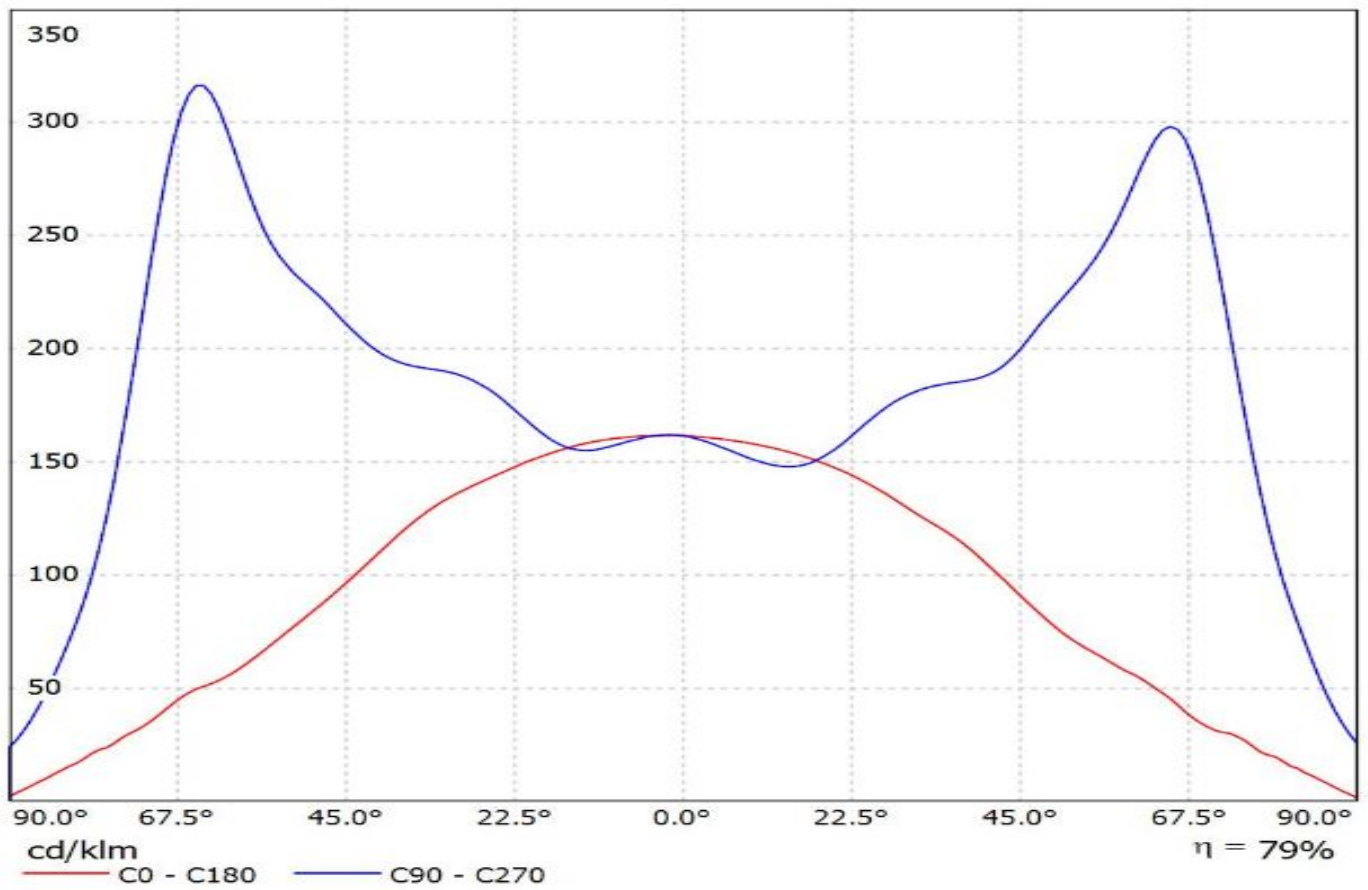


 Ledil Oy Salorankatu 10 FIN 24240 SALO Finland		DRAWING TITLE	
		LINNEA SHEETMETAL CUT OUT	
SIZE	PART NUMBER		
A3	-		
SCALE	1:2	WEIGHT	
		SHEET	2/2

FIRST ANGLE PROJECTION: 

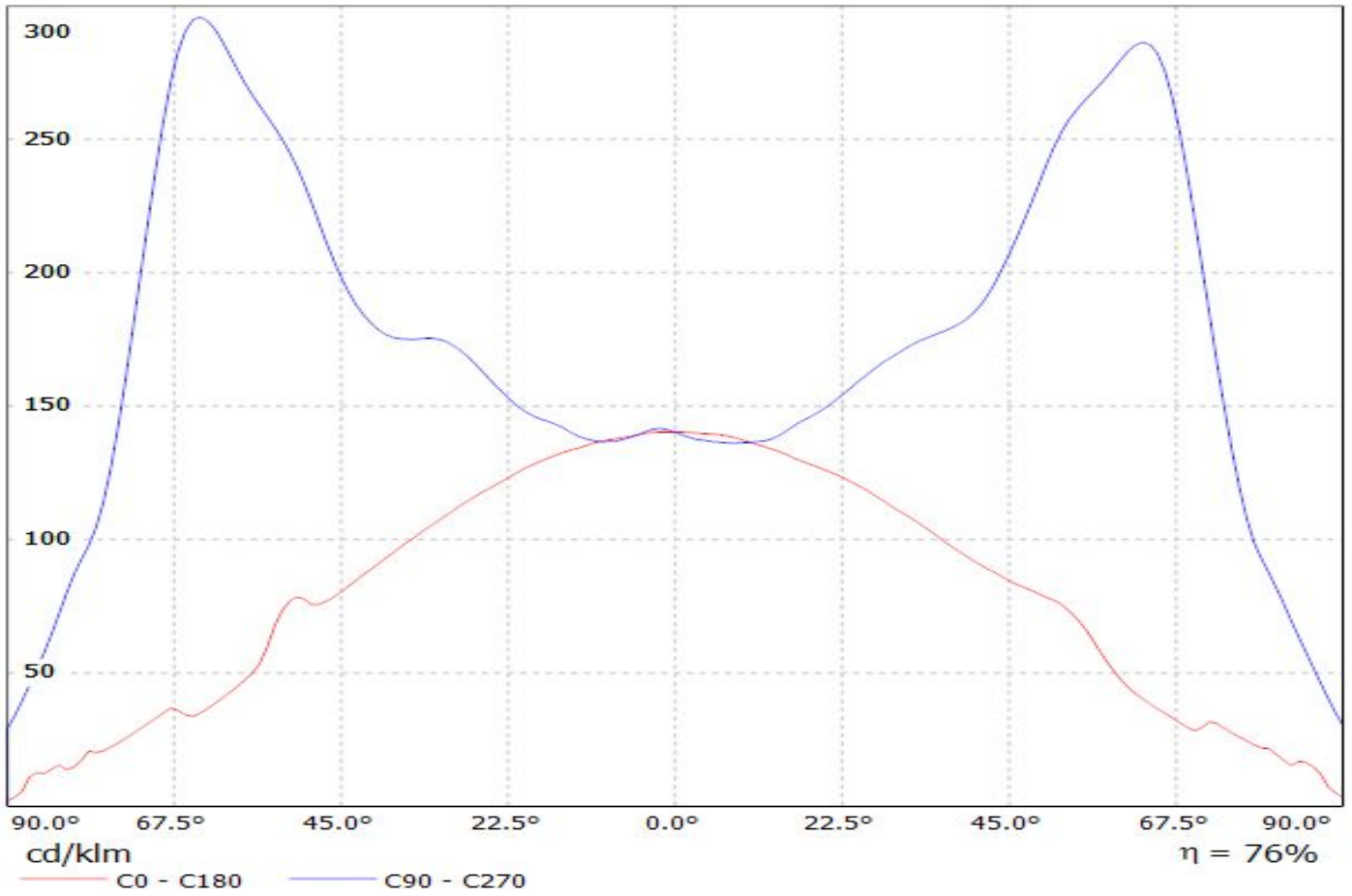
This drawing is the property of LEDiL Oy. It may not be reproduced, copied or communicated without a written agreement with LEDiL Oy.

Luminaire: LEDiL Oy F16048\_LINNEA-UP\_(Tridino\_1ft\_1100lm\_840HE\_1R\_HV)  
Lamps: 1 x Tridino\_1ft\_1100lm\_840HE\_1R\_HV\_1215.69lm@225mA\_P=7.12573W\_η=0.225A



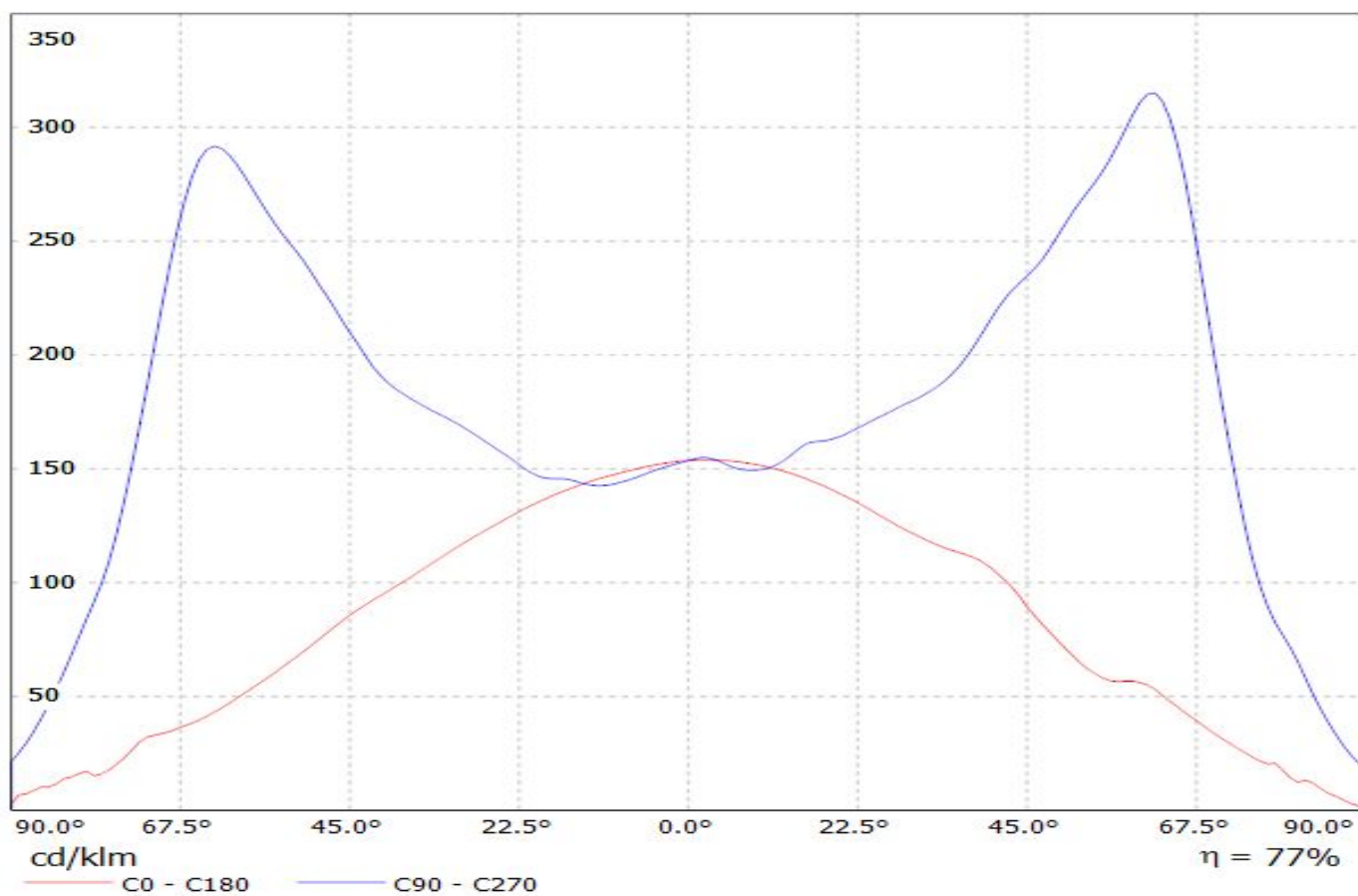
Luminaire: LEDiL Oy F16048\_LINNEA-UP\_(XP-E)

Lamps: 1 x Cree\_XP-E\_x12\_(XPEWHT-L1-3C0-Q5-0-00)\_920.665lm@250mA\_P=9.07548W\_U=36.329V

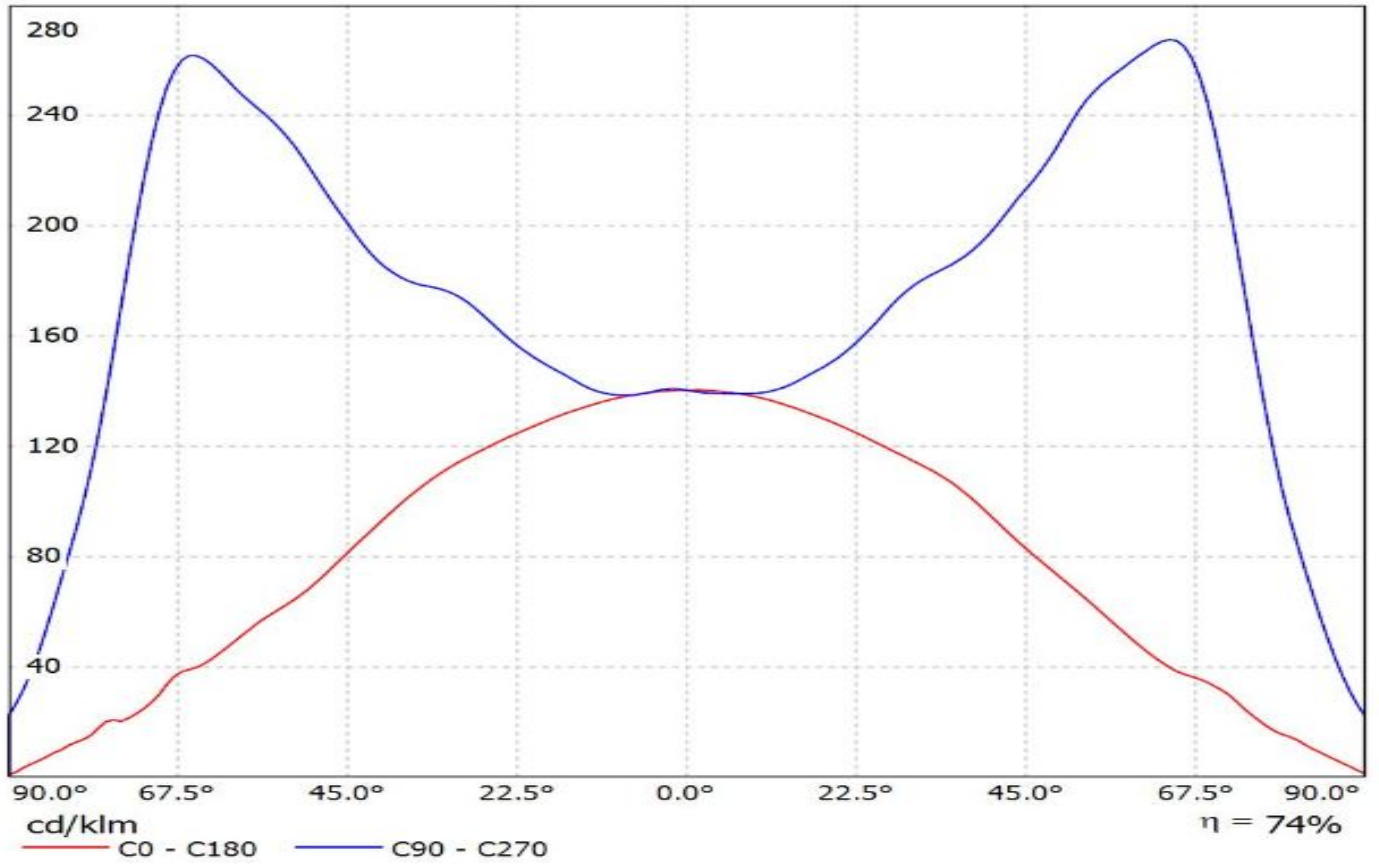


Luminaire: LEDiL Oy F16048\_LINNEA-UP\_(NF2x757G)

Lamps: 1 x Nichia\_NF2x757G\_(NF2W757G-F1E)\_387.712lm@65mA\_P=2.11136W\_U=30.422V

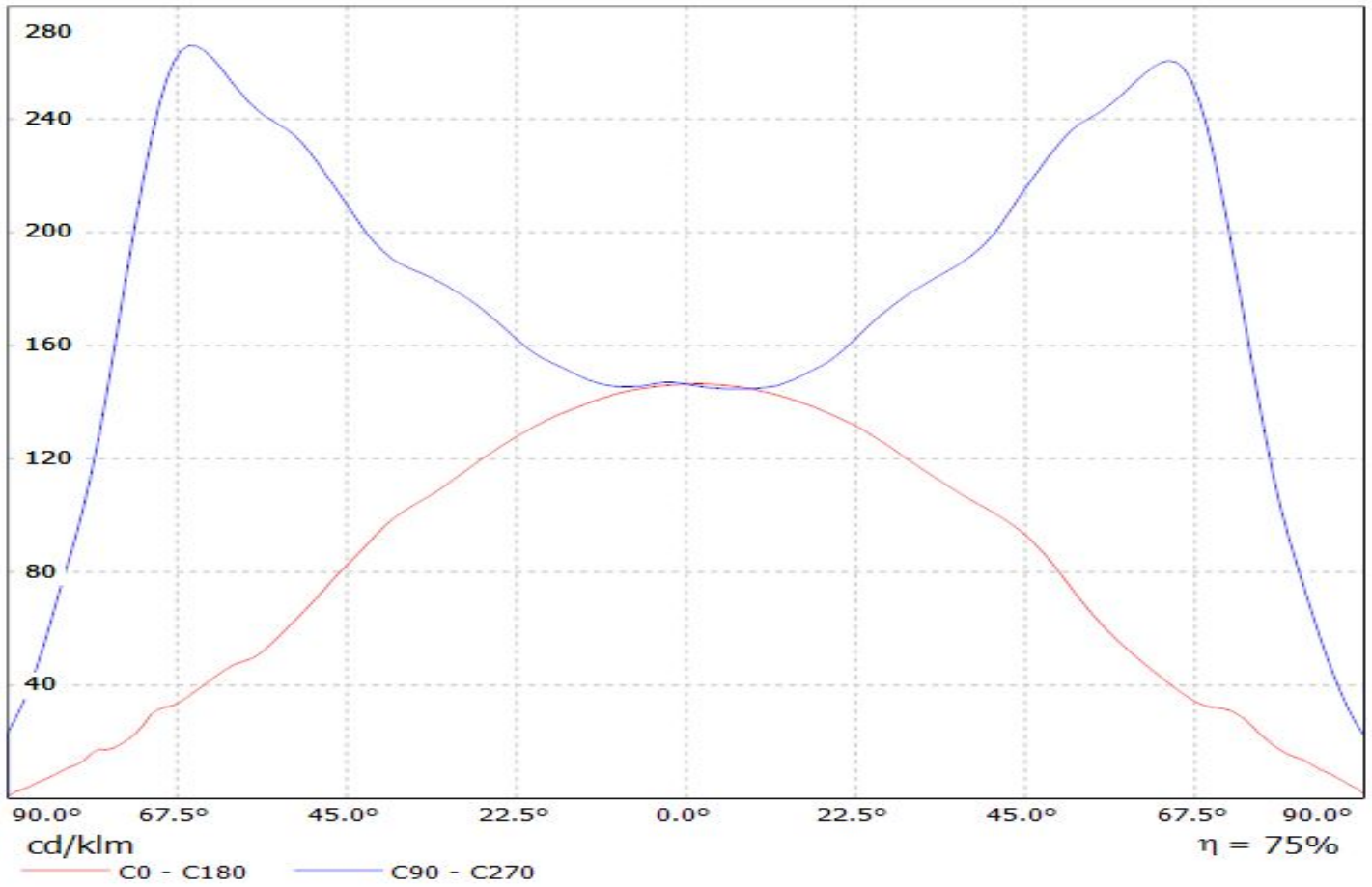


Luminaire: Ledil F16048\_LINNEA-UP\_(Prevaled\_Linear\_Slim\_1100lm)  
Lamps: 1 x Osram\_Prevaled\_Linear\_Slim\_1100lm\_(PL-LIN S-Z3-1100-8x0-280)  
\_1029.23lm@175mA\_P=6.45102W\_U=36.960V



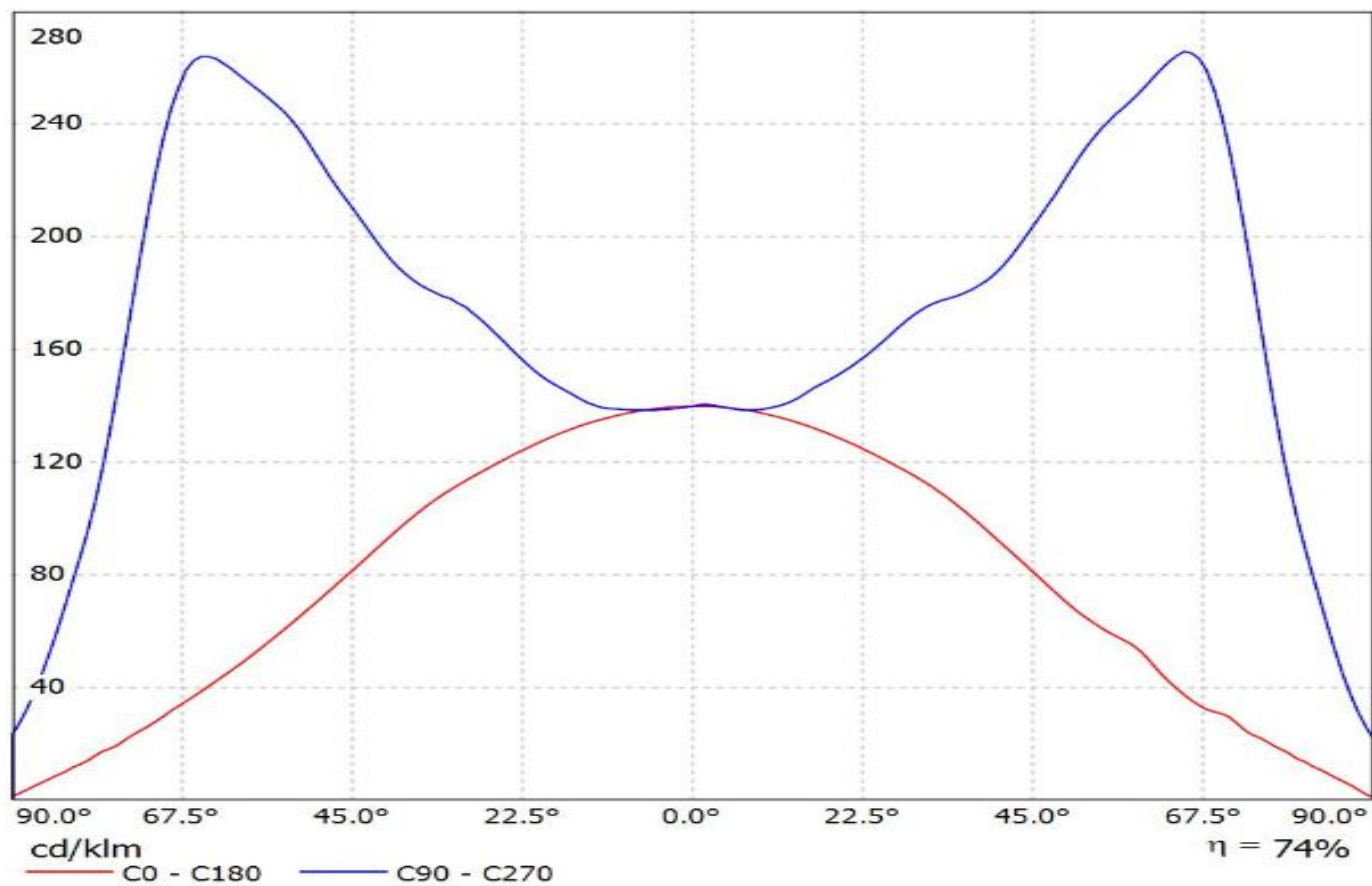
Luminaire: Ledil F16048\_LINNEA-UP\_(Duris\_S5)

Lamps: 1 x Osram\_Duris\_S5\_1183.73lm@250mA\_P=8.66003W\_U=34.724V

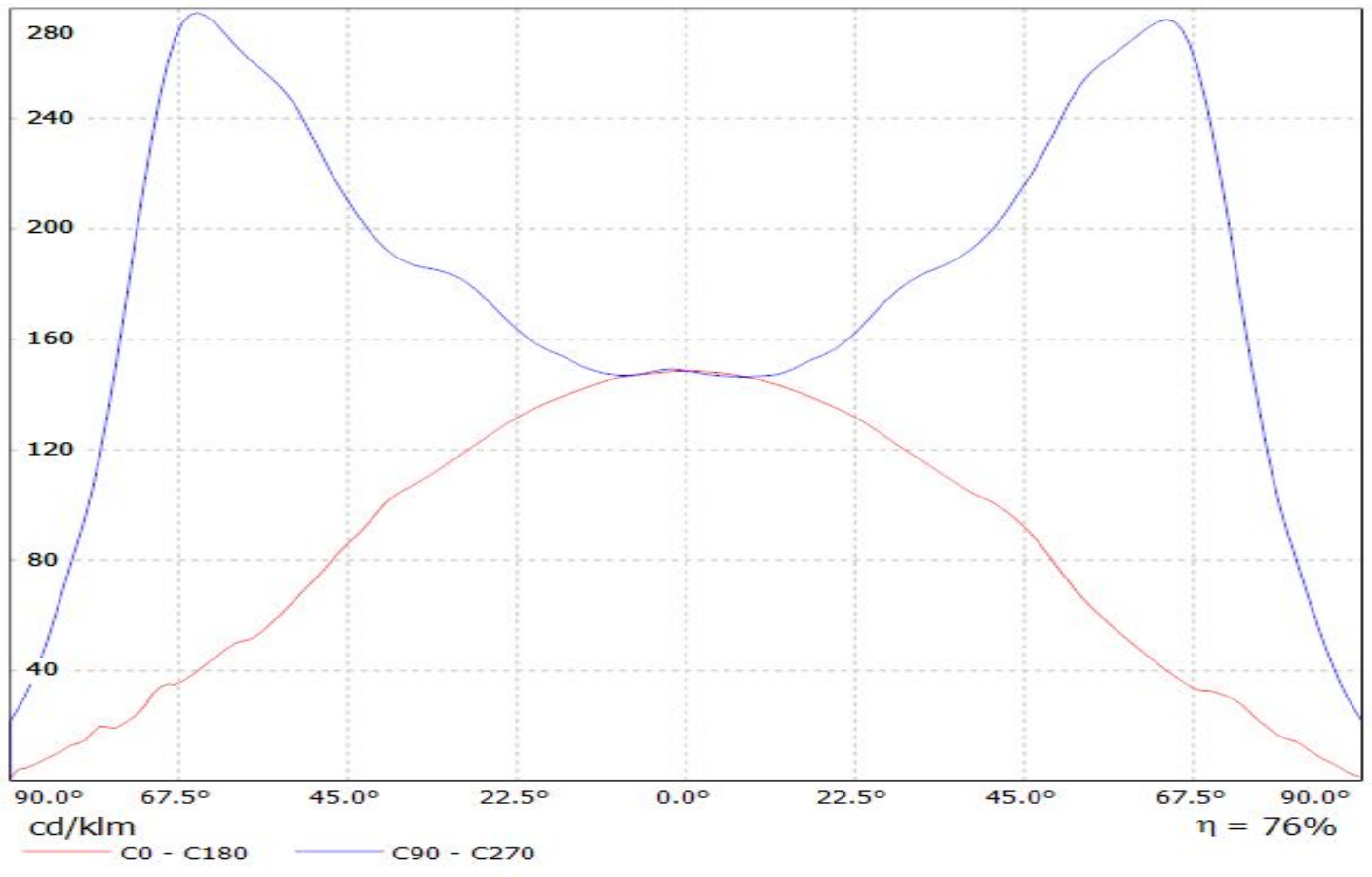




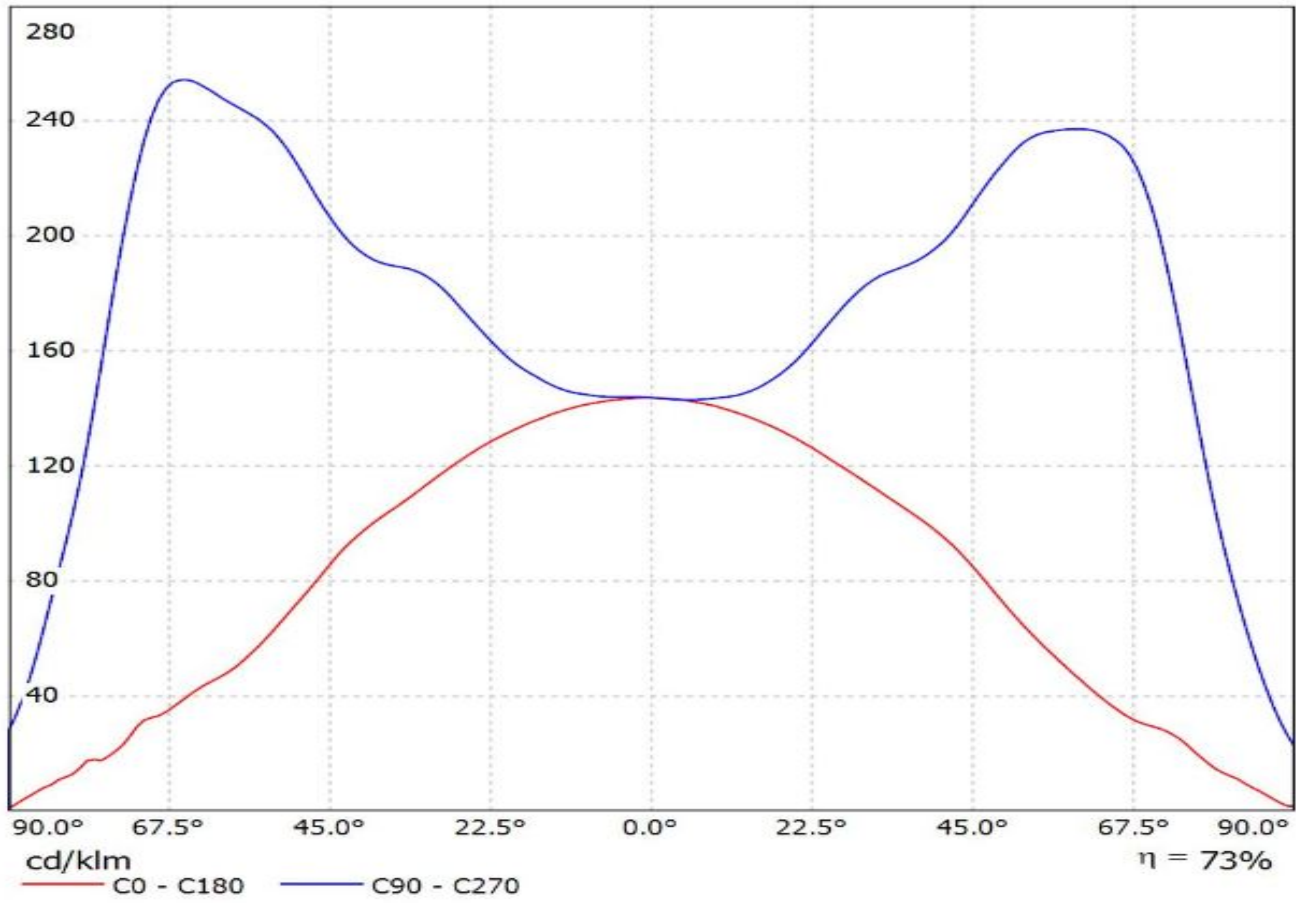
Luminaire: Ledil F16048\_LINNEA-UP\_(Prevaled\_Linear\_Slim\_3)  
Lamps: 1 x Osram\_Prevaled\_Linear\_Slim\_3\_(PL-LIN S-Z3-2000-840-280)  
\_1949.14lm@300mA\_CCT=4000K\_P=12.0015W\_U=40.179V



Luminaire: LEDiL Oy F16048\_LINNEA-UP\_(Duris\_S5\_1chip)  
Lamps: 1 x Osram\_Duris\_S5\_1chip\_(GWPSLM31\_EM-GUHQ-A535-1)  
\_359.255lm@65mA\_P=2.13817W\_U=33.253V

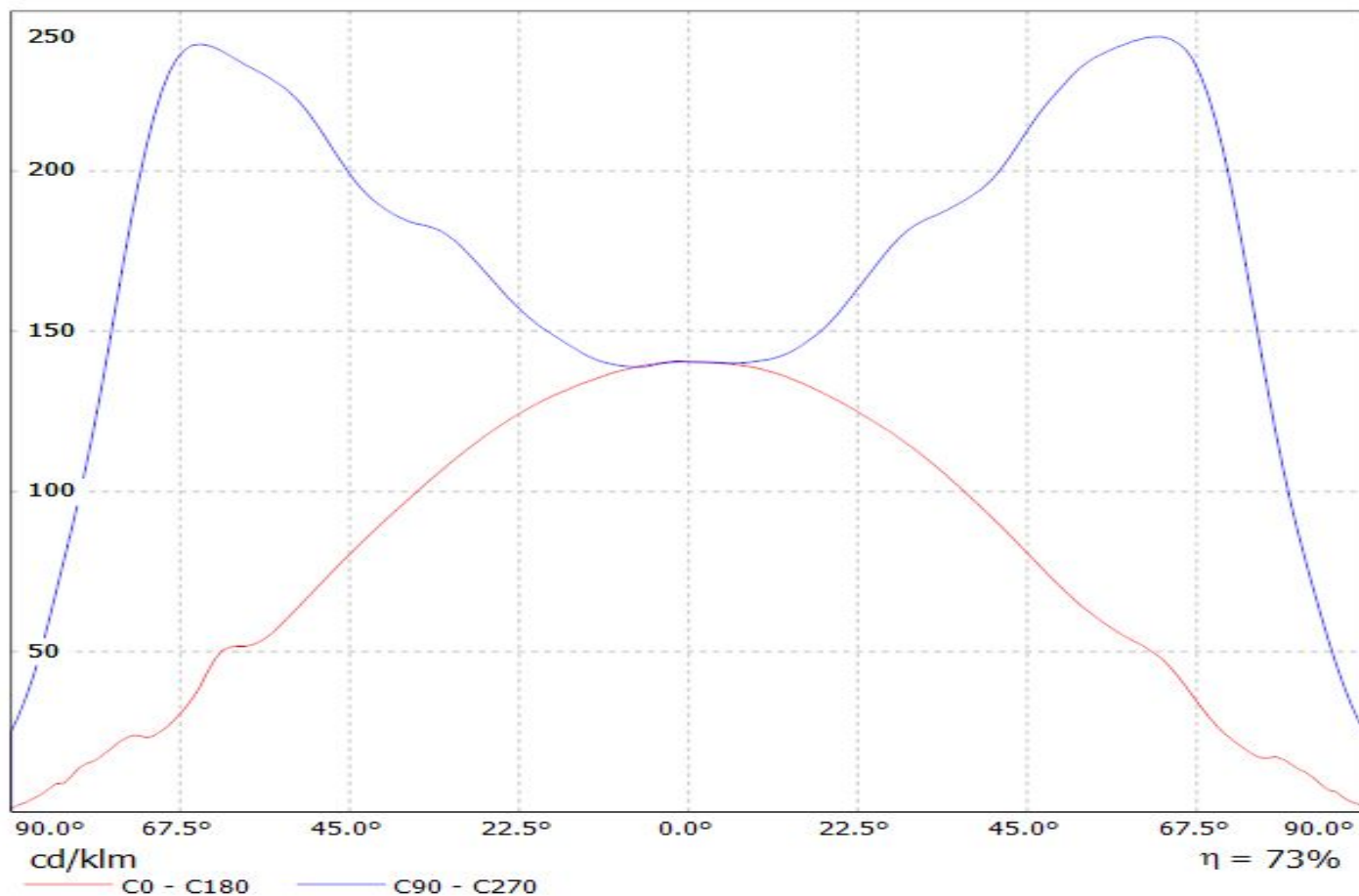


Luminaire: Ledil F16048\_LINNEA-UP\_(Fortimo\_LED\_Strip\_1ft\_1100lm\_FC\_HV4)  
Lamps: 1 x Philips\_Fortimo\_LED\_Strip\_1ft\_1100lm\_930\_FC\_HV4\_735.772lm@250mA\_P=5.6145W\_U=22.496V



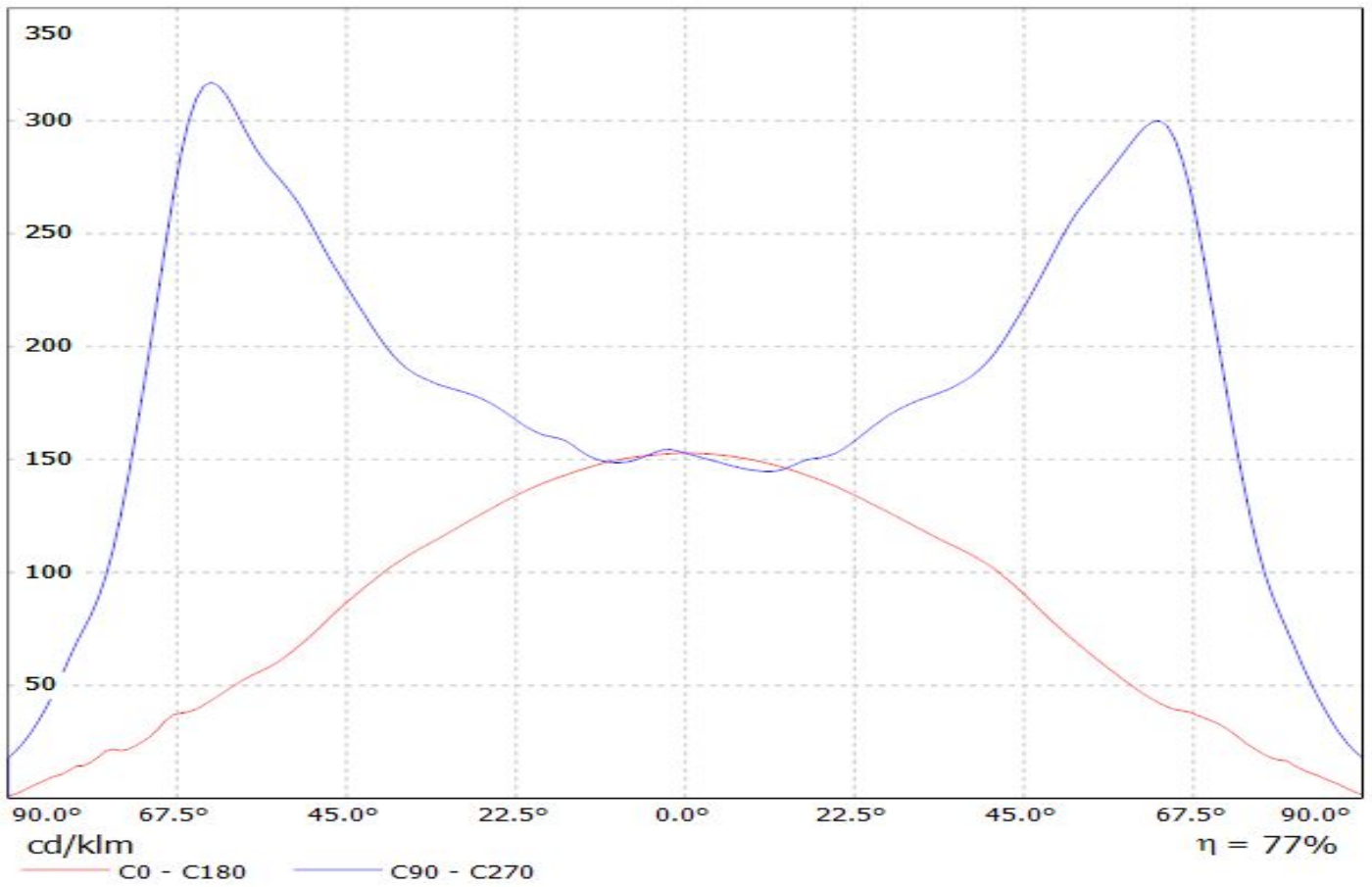
Luminaire: Ledil F16048\_LINNEA-UP\_(Fortimo\_LED\_Strip\_1ft\_650lm\_FC\_LV4)

Lamps: 1 x Philips\_Fortimo\_LED\_Strip\_1ft\_650lm\_FC\_LV4\_994.849lm@190mA\_P=6.82273W\_U=35.990V



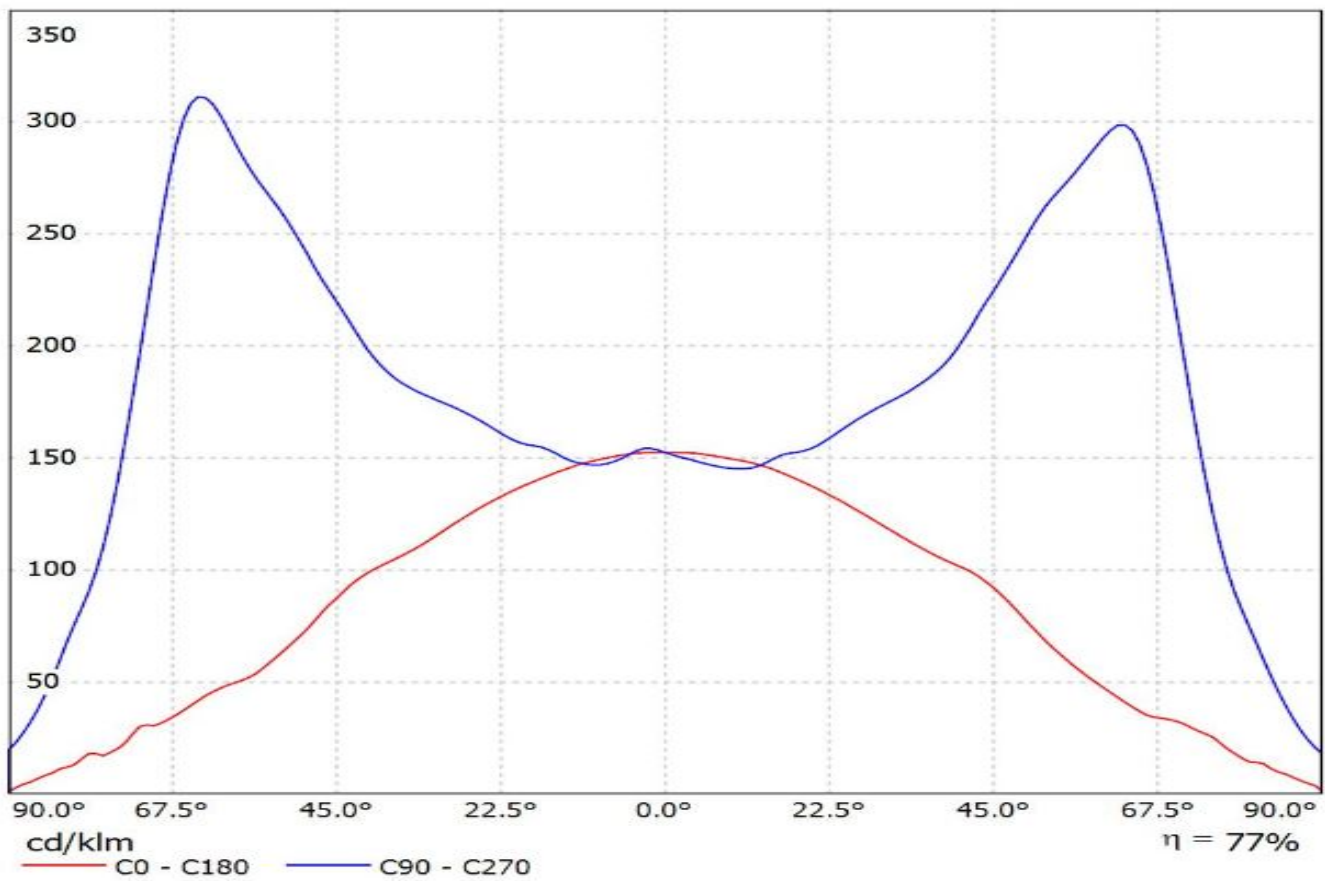
Luminaire: Ledil F16048\_LINNEA-UP\_(LT-S282H)

Lamps: 1 x Samsung\_LT-S282H\_(LM561B+)\_1151.7lm@300mA\_P=7.2015W\_U=24.005V



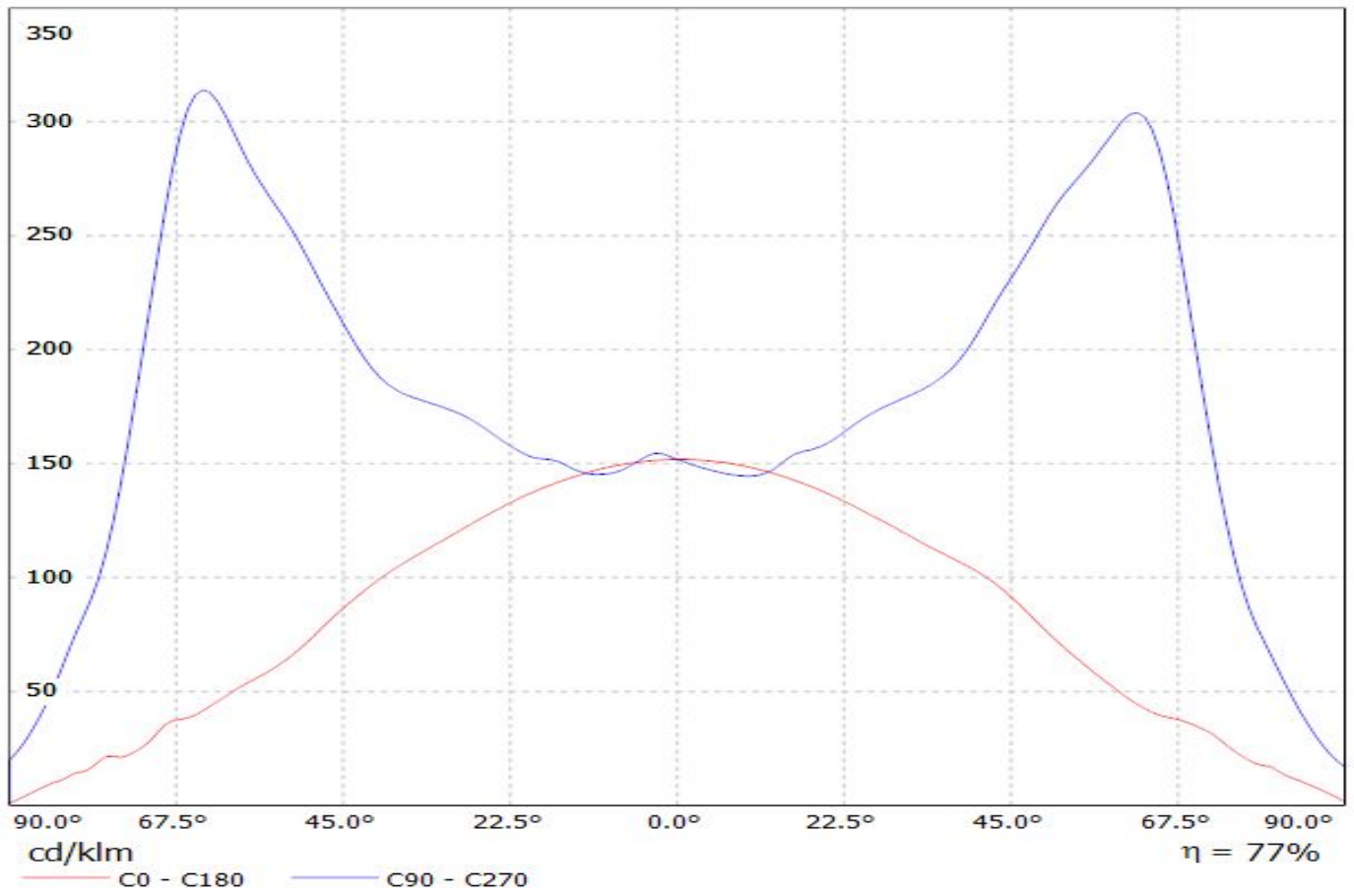
Luminaire: Ledil F16048\_LINNEA-UP\_(LT-Q282B)

Lamps: 1 x Samsung\_LT-Q282B\_(LM301B\_SI-B8T053280EU)\_943.526lm@180mA\_P=4.99618W\_U=27.805V



Luminaire: LEDiL Oy F16048\_LINNEA-UP\_(LT-H282C)

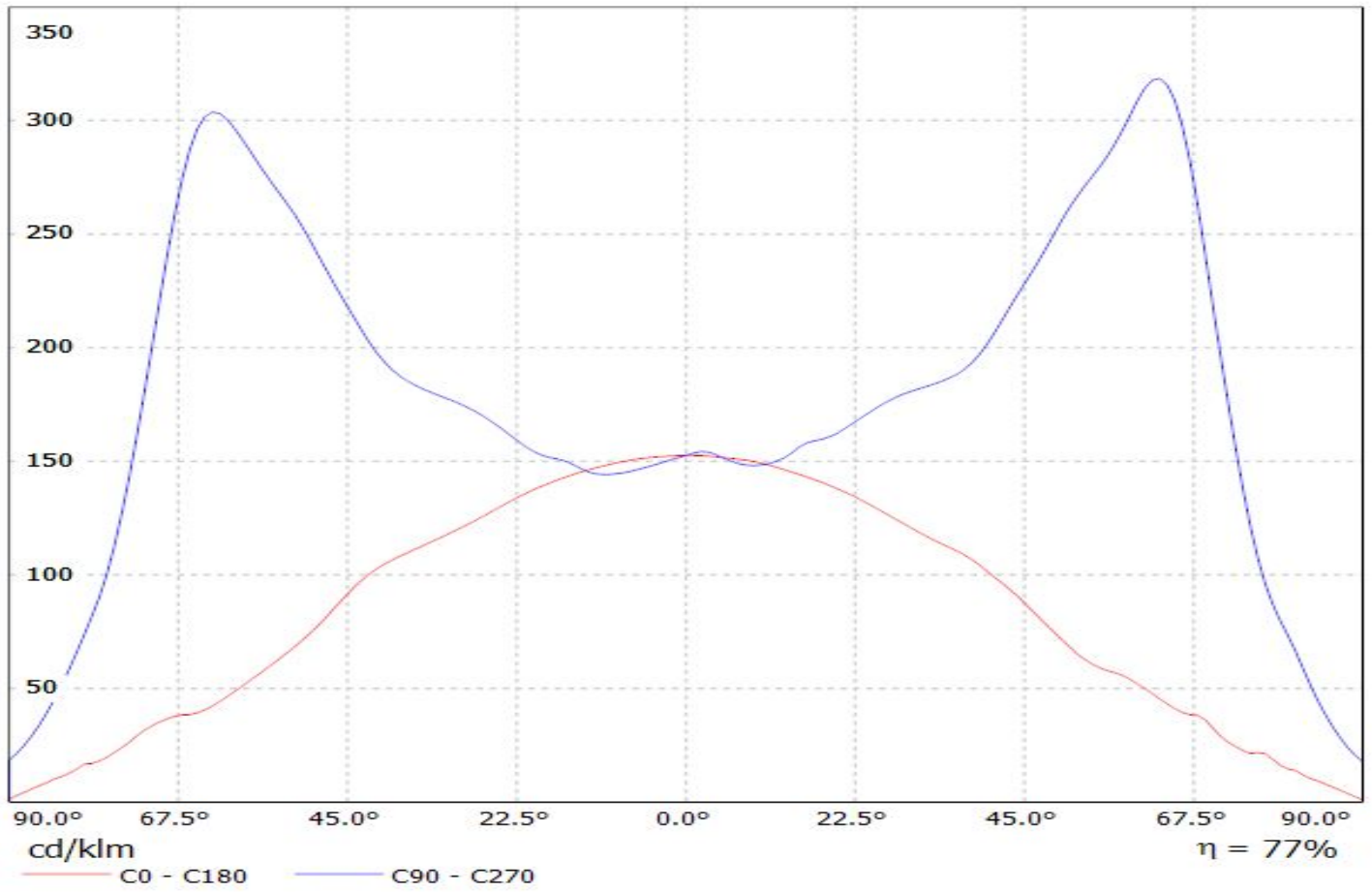
Lamps: 1 x Samsung\_LT-H282C\_(LM561C)\_1003.19lm@240mA\_CCT=4000K\_P=5.41512W\_U=22.562V





Luminaire: Ledil F16048\_LINNEA-UP\_(LT-V282E)

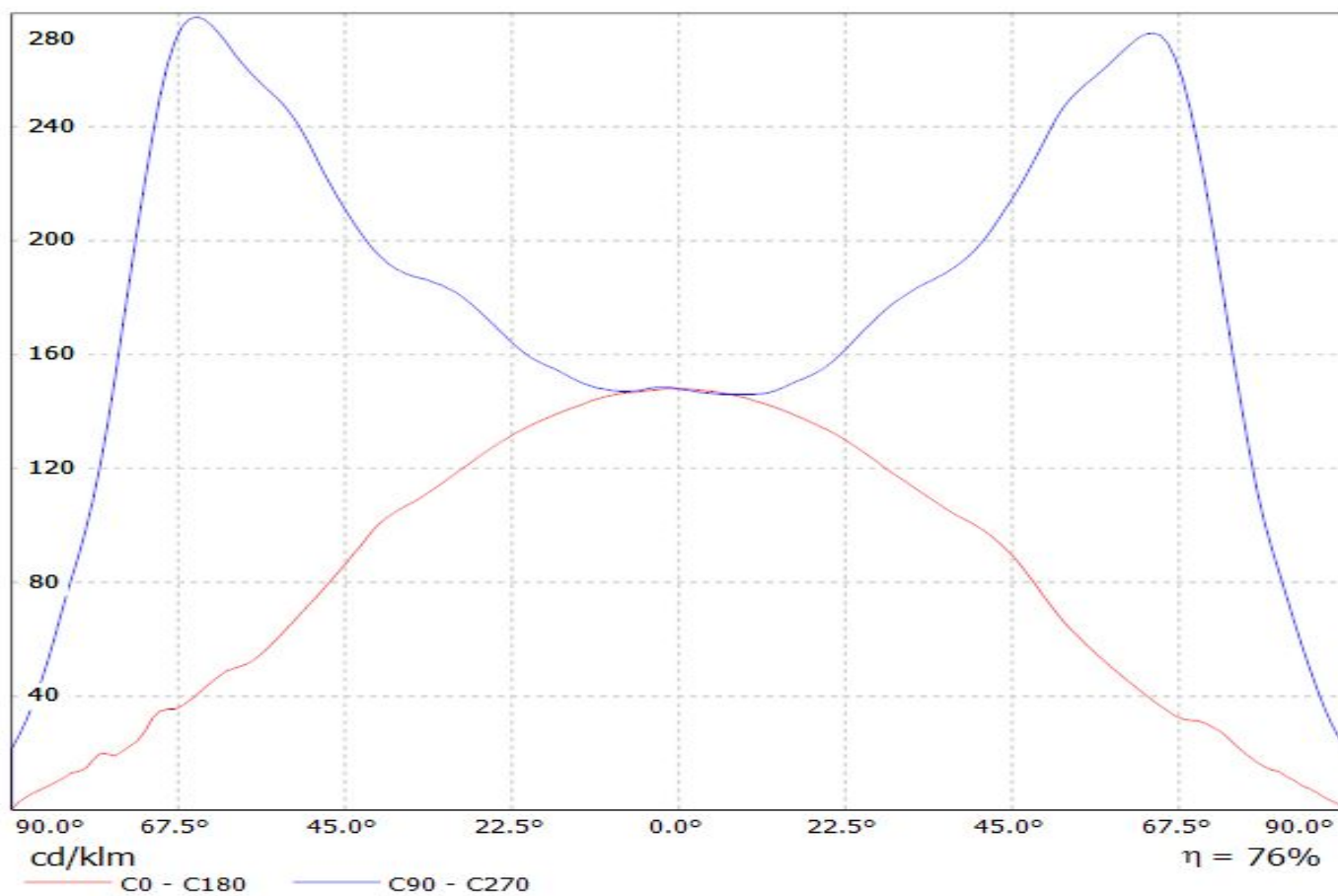
Lamps: 1 x Samsung\_LT-V282E\_1080.75lm@300mA\_CCT=4000K\_P=7.1421W\_U=23.807V





Luminaire: Ledil F16048\_LINNEA-UP (SunLike 3030)

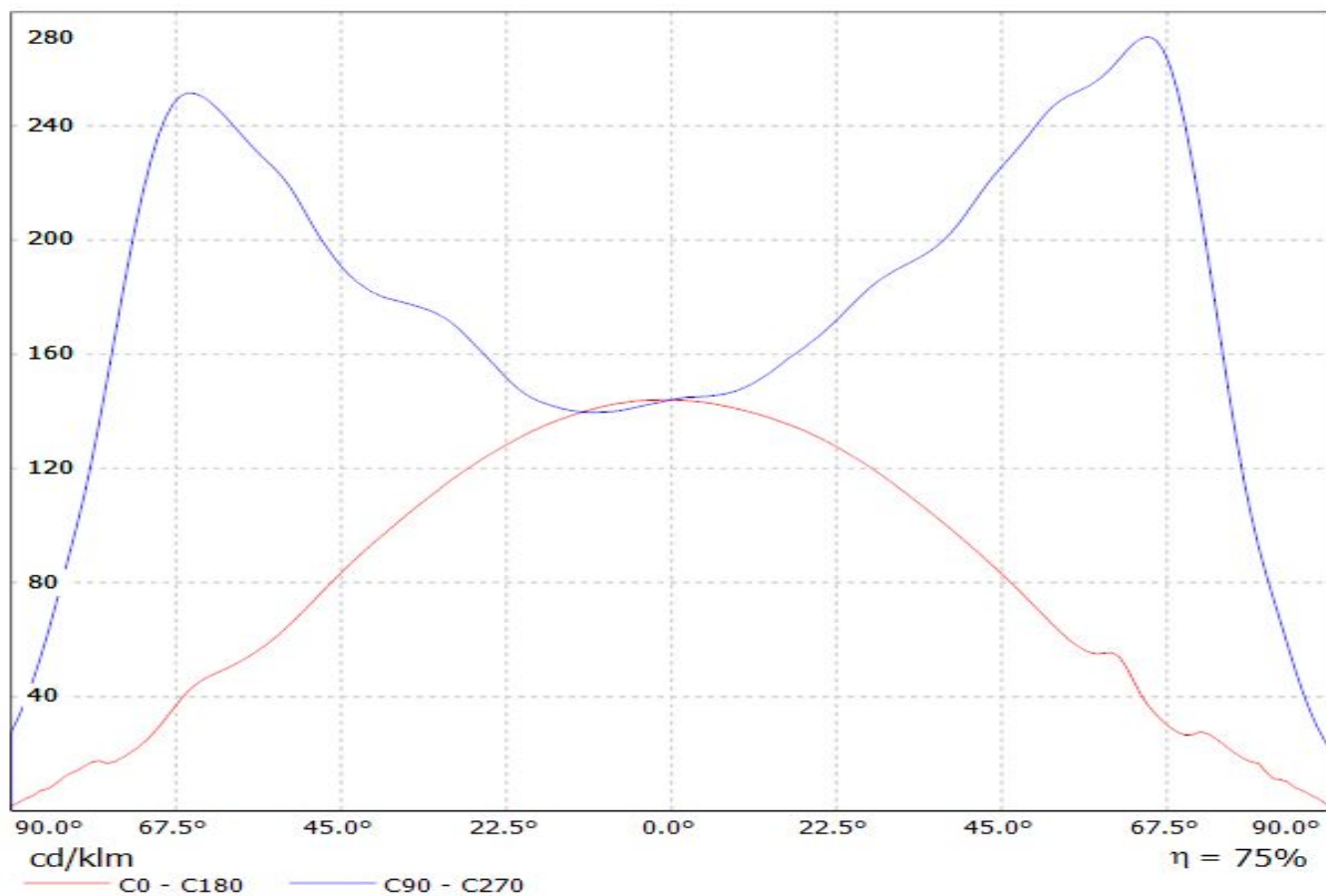
Lamps: 1 x SEOUL\_SunLike 3030\_(STW9C2PB-S)\_2\_240.649lm@0.65mA\_P=2.30531W\_U=35.538V



Luminaire: LEDiL Oy F16048\_LINNEA-UP\_(LLE\_G4\_24x280mm\_650lm\_840\_2T\_ADV)

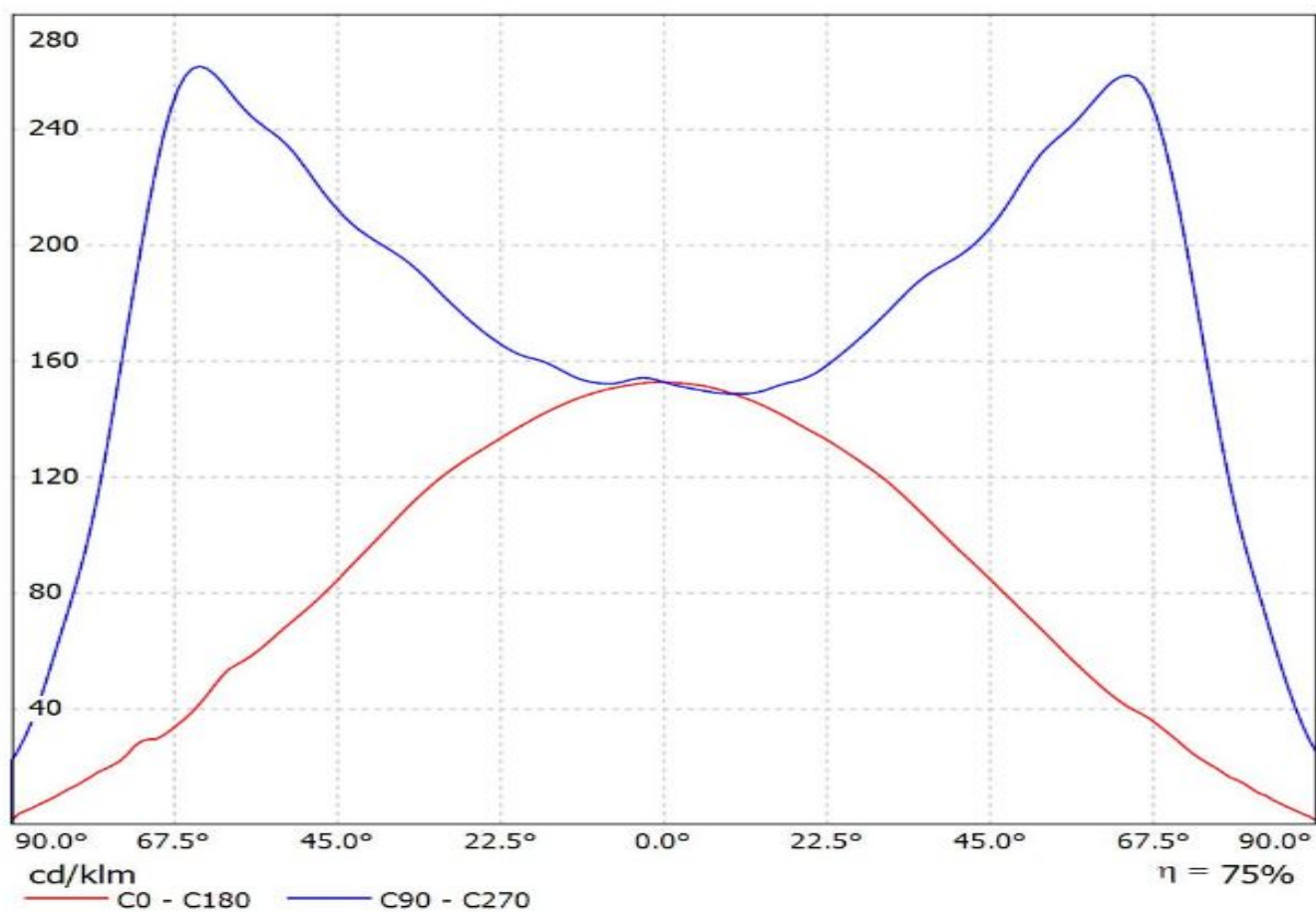
Lamps: 1 x

Tridonic\_LLE\_G4\_24x280mm\_650lm\_840\_2T\_ADV\_482.885lm@250mA\_CCT=4000K\_P=2.81637W\_U=11.27V

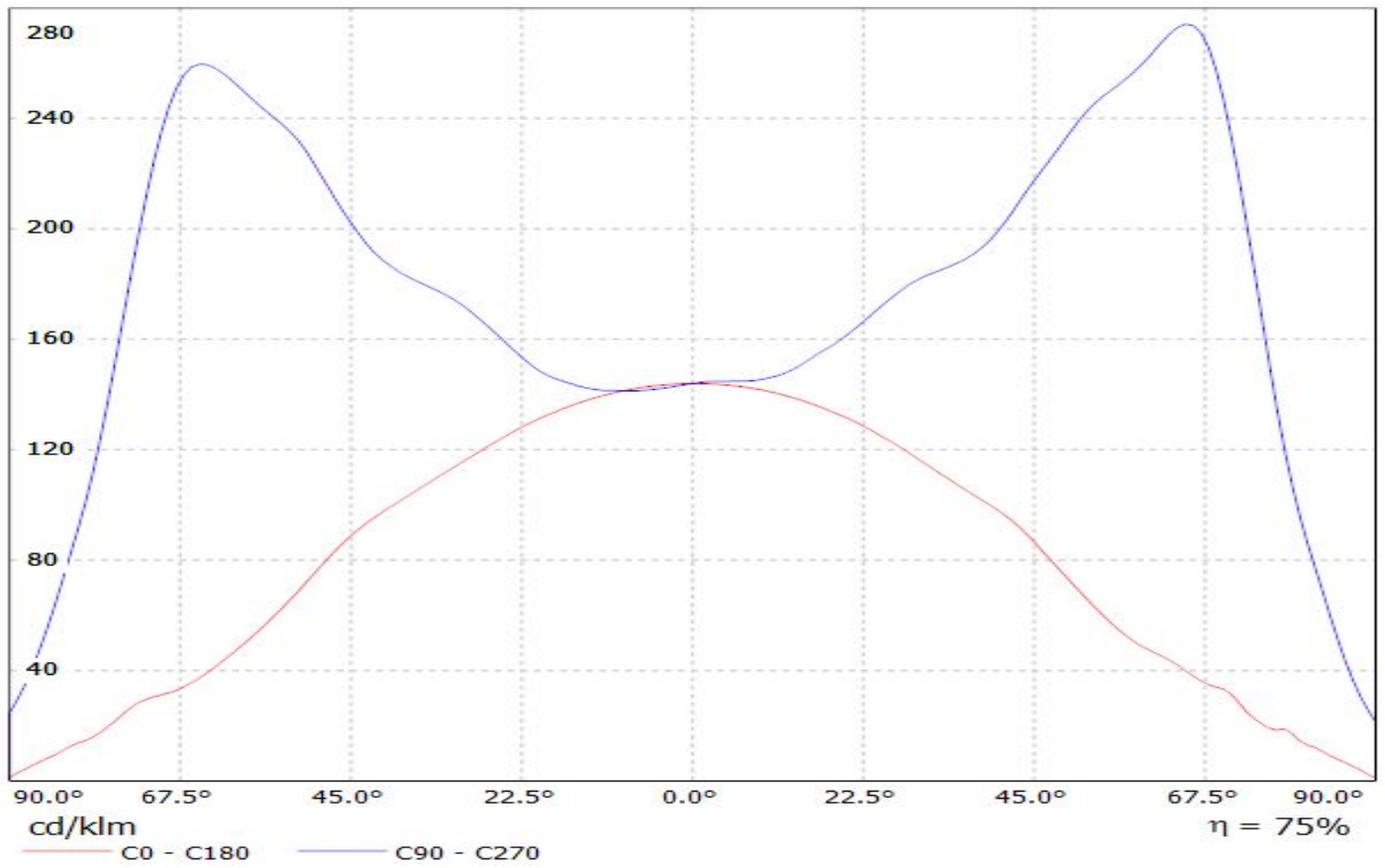


Luminaire: Ledil F16048 LINNEA-UP\_(LLE\_G4\_24x280mm\_2000lm\_ADV)

Lamps: 1 x Tridonic\_LLE\_G4\_24x280mm\_2000lm\_840\_2T\_ADV\_1460.64lm@250mA\_P=8.47961W\_U=33.932V

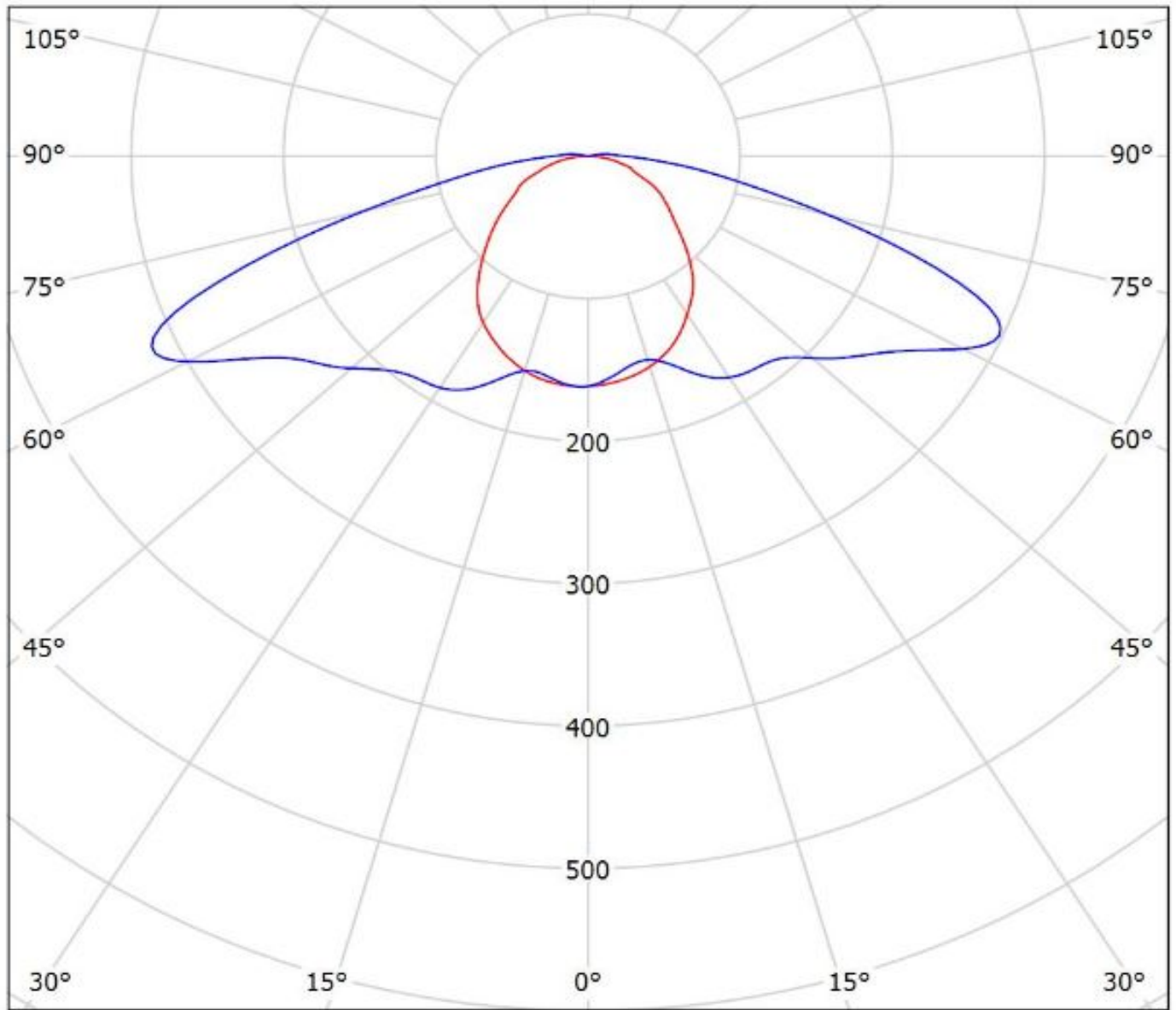


Luminaire: Ledil F16048\_LINNEA-UP\_(LLE\_G4\_24x280mm\_1250lm\_840\_4T\_ADV)  
Lamps: 1 x Tridonic\_(LLE\_G4\_24x280mm\_1250lm\_840\_4T\_ADV)  
\_971.78lm@250mA\_CCT=4000K\_P=5.6355W\_U=22.5500V



Luminaire: LEDiL Oy F16048\_LINNEA-UP\_(Tridino\_1ft\_1100lm\_840HE\_1R\_HV)

Lamps: 1 x Tridino\_1ft\_1100lm\_840HE\_1R\_HV\_1215.69lm@225mA\_P=7.12573W\_I=0.225A



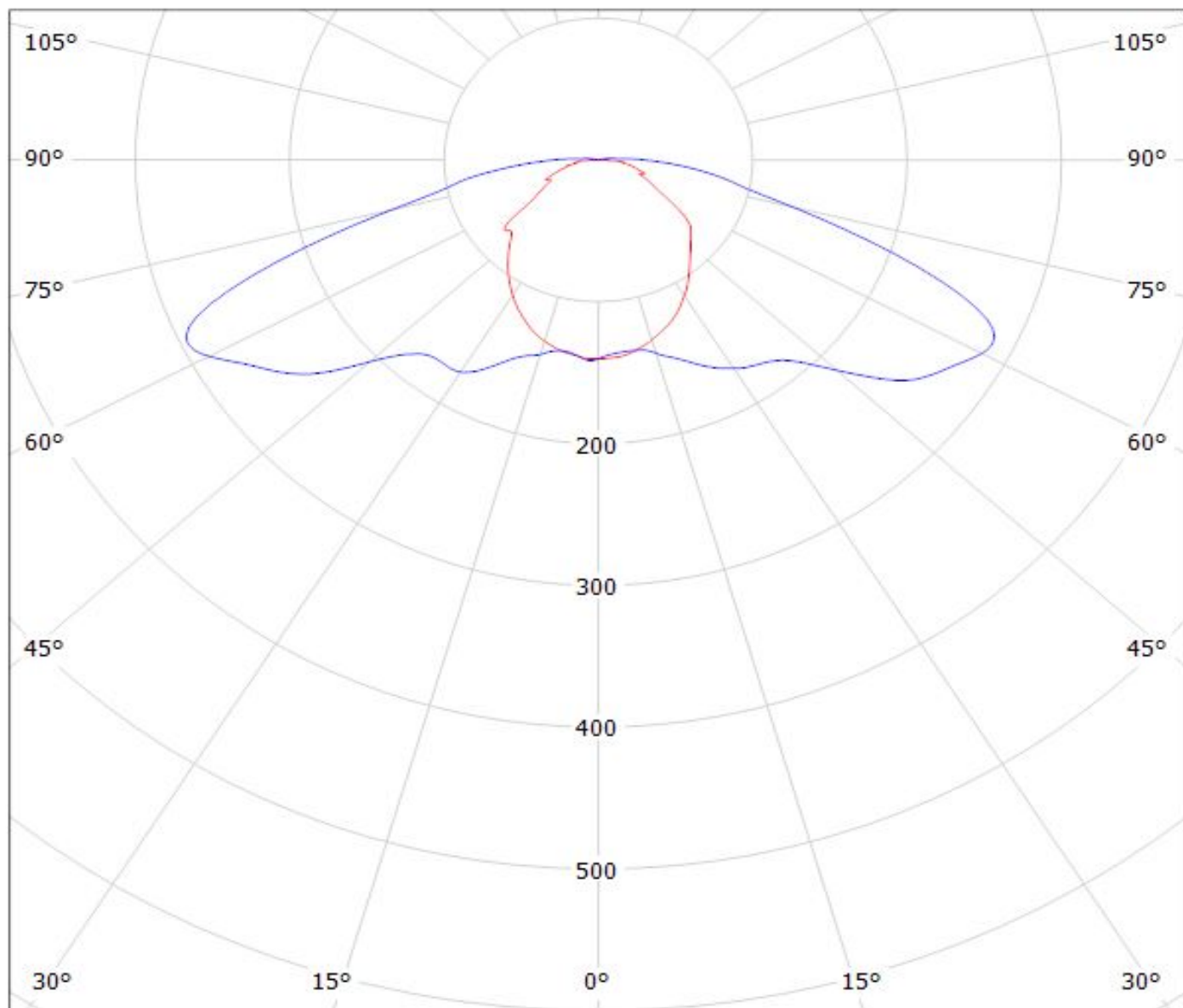
cd/klm

— C0 - C180 — C90 - C270

$\eta = 79\%$

Luminaire: LEDiL Oy F16048\_LINNEA-UP\_(XP-E)

Lamps: 1 x Cree\_XP-E\_x12\_(XPEWHT-L1-3C0-Q5-0-00)\_920.665lm@250mA\_P=9.07548W\_U=36.329V



cd/klm

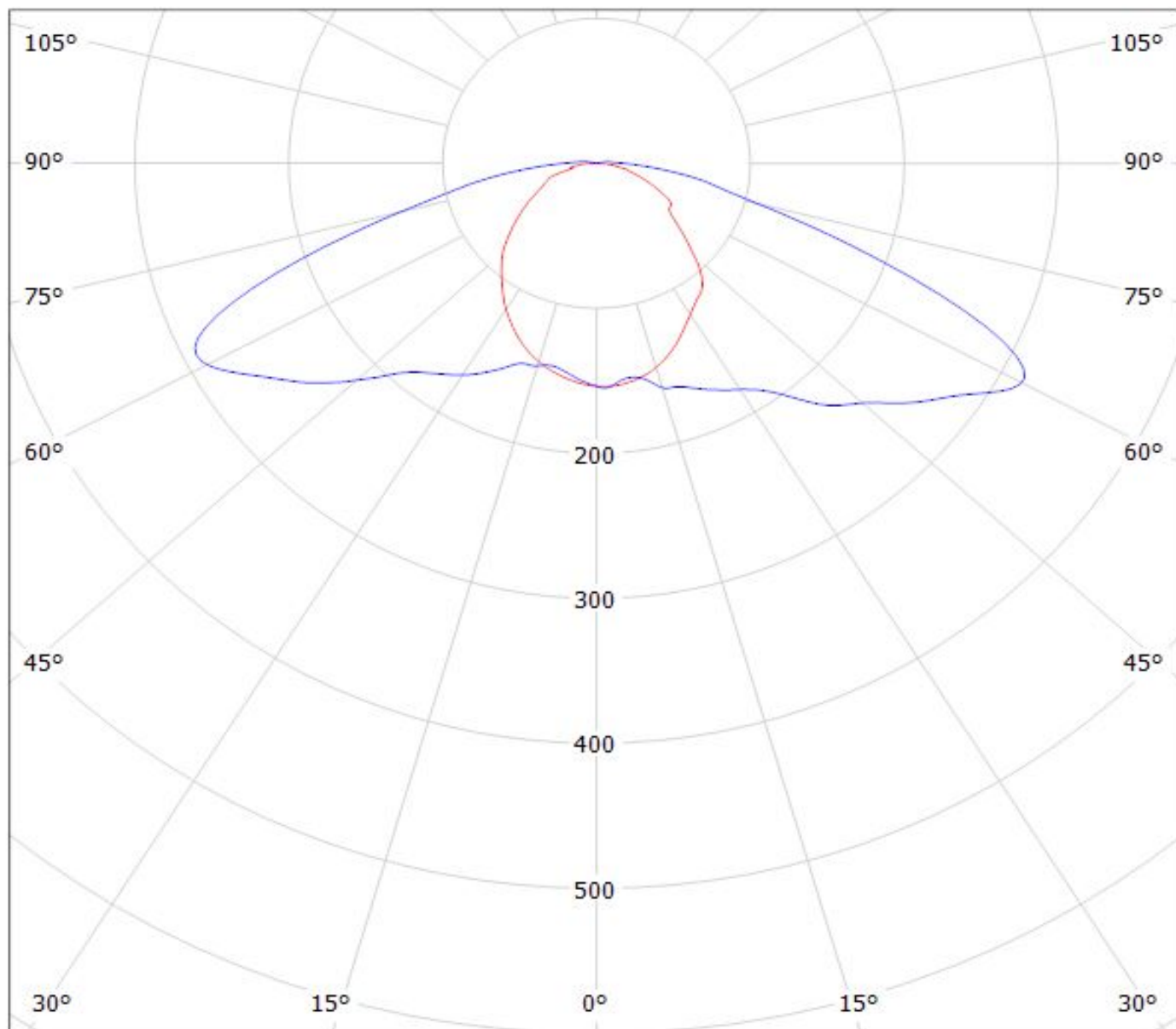
— C0 - C180    — C90 - C270

$\eta = 76\%$



Luminaire: LEDiL Oy F16048\_LINNEA-UP\_(NF2x757G)

Lamps: 1 x Nichia\_NF2x757G\_(NF2W757G-F1E)\_387.712lm@65mA\_P=2.11136W\_U=30.422V

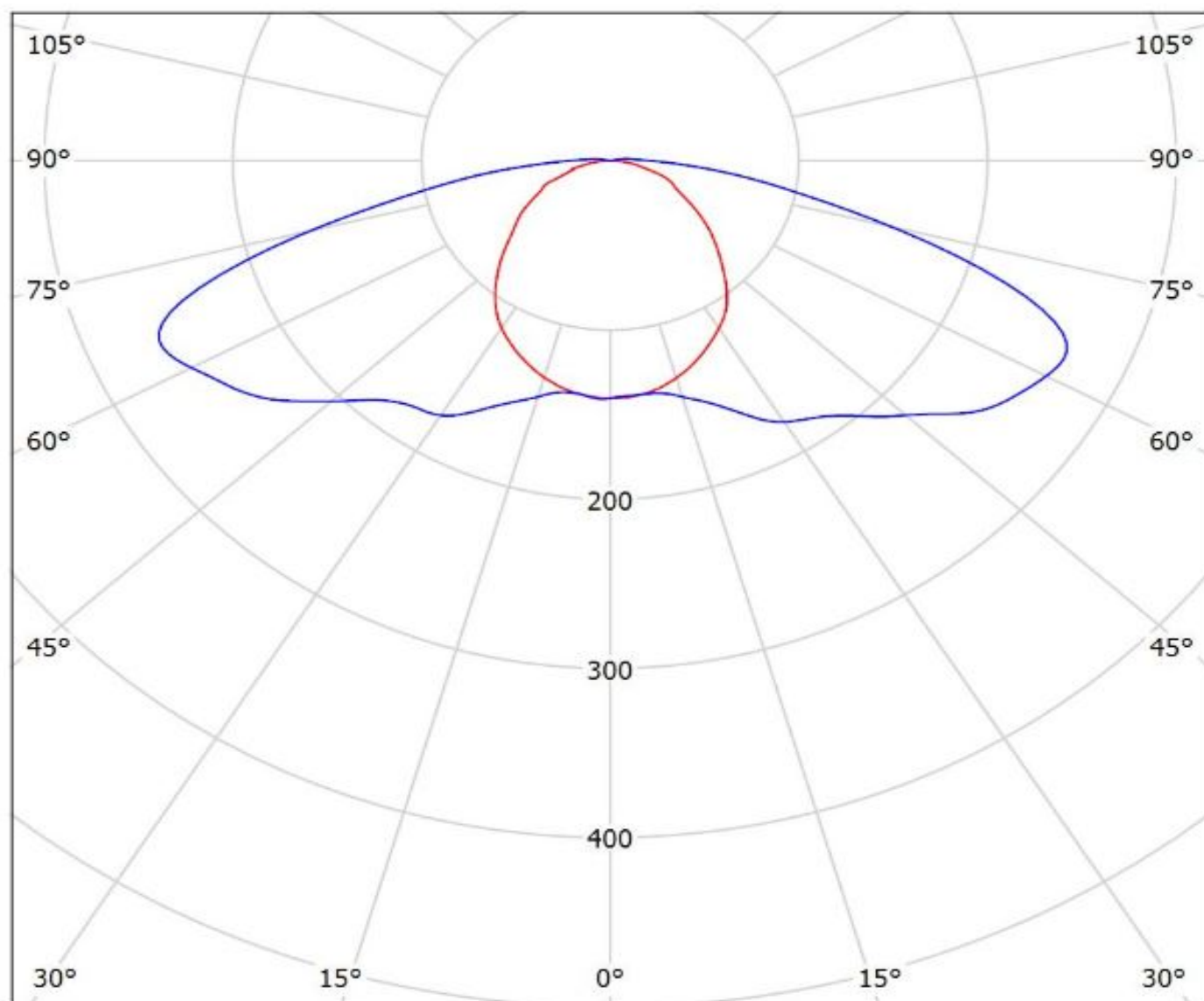


cd/klm

— C0 - C180    — C90 - C270

$\eta = 77\%$

Luminaire: Ledil F16048\_LINNEA-UP\_(Prevaled\_Linear\_Slim\_1100lm)  
Lamps: 1 x Osram\_Prevaled\_Linear\_Slim\_1100lm\_(PL-LIN S-Z3-1100-8x0-280)  
\_1029.23lm@175mA\_P=6.45102W\_U=36.960V



cd/klm

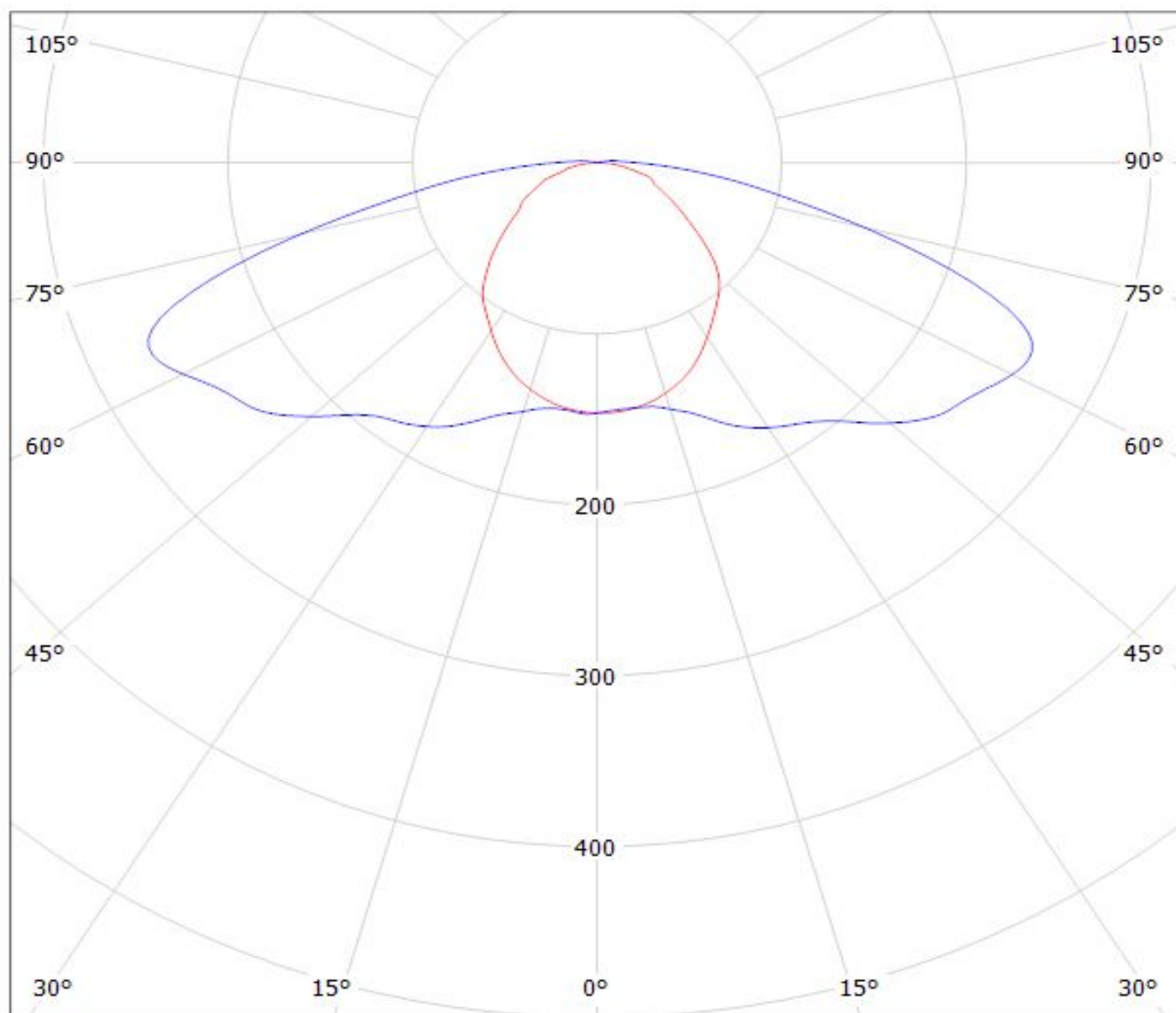
— C0 - C180 — C90 - C270

$\eta = 74\%$



Luminaire: Ledil F16048\_LINNEA-UP\_(Duris\_S5)

Lamps: 1 x Osram\_Duris\_S5\_1183.73lm@250mA\_P=8.66003W\_U=34.724V

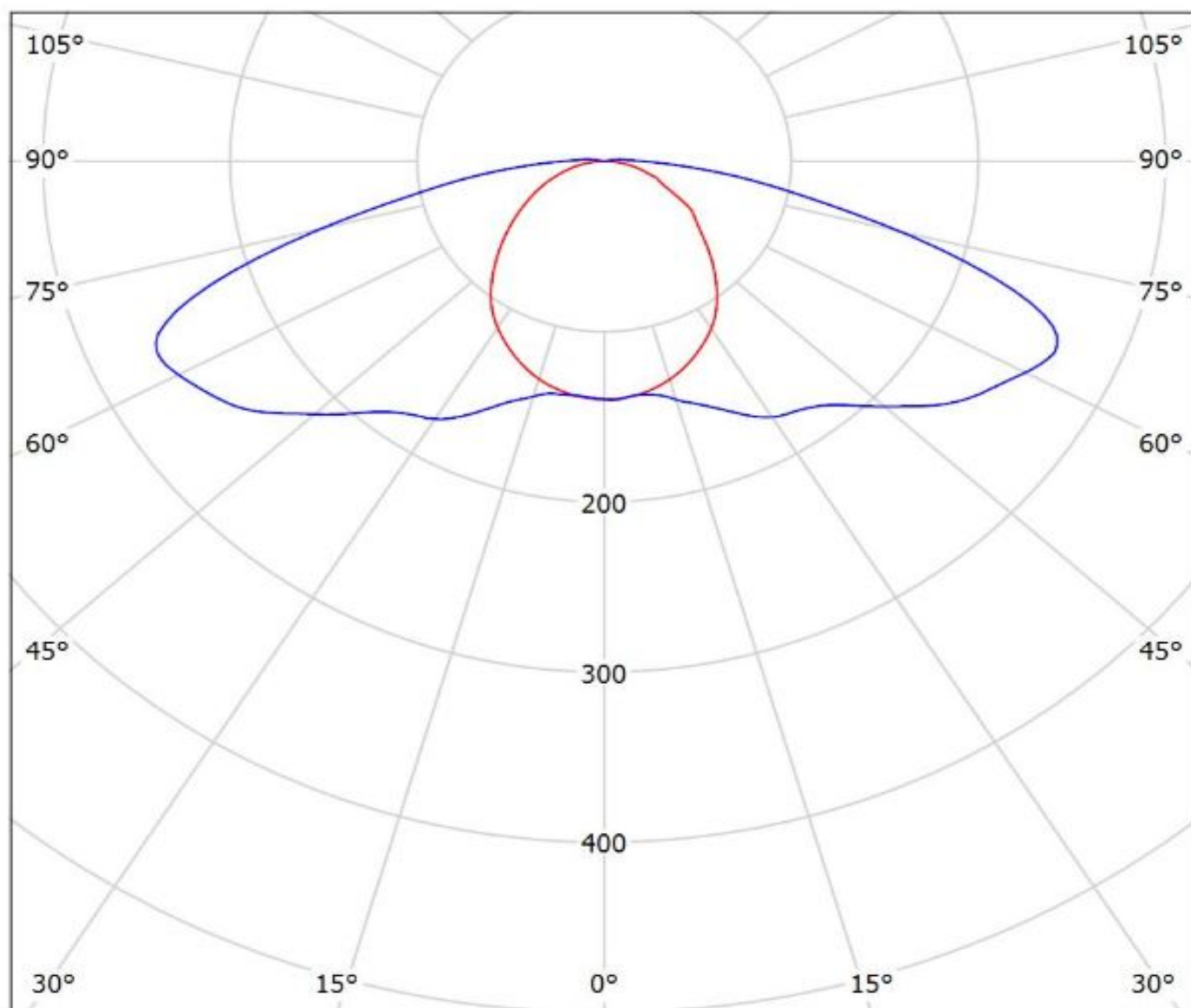


cd/klm

— C0 - C180 — C90 - C270

$\eta = 75\%$

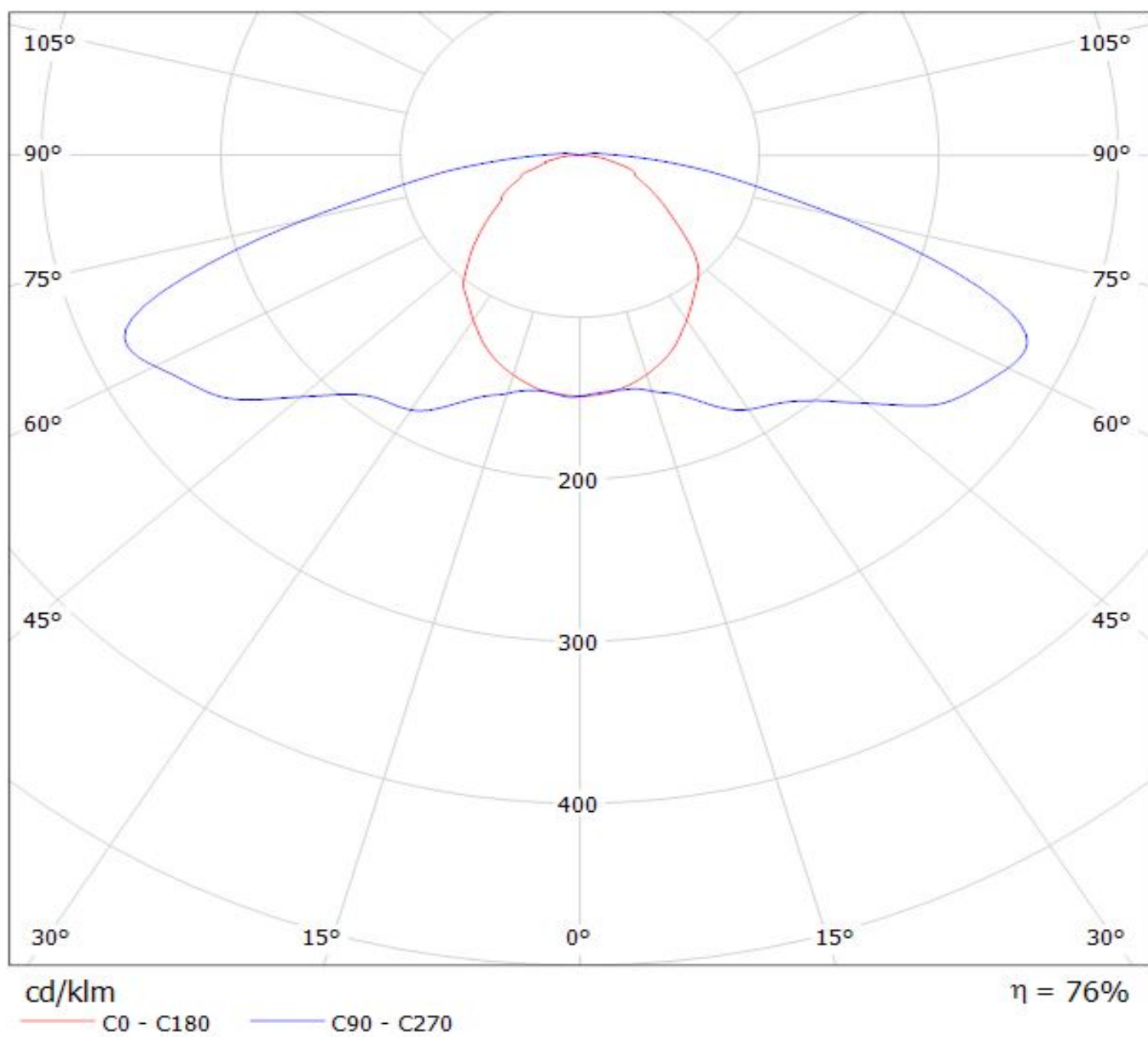
Luminaire: Ledil F16048\_LINNEA-UP\_(Prevaled\_Linear\_Slim\_3)  
Lamps: 1 x Osram\_Prevaled\_Linear\_Slim\_3\_(PL-LIN S-Z3-2000-840-280)  
\_1949.14lm@300mA\_CCT=4000K\_P=12.0015W\_U=40.179V



cd/klm  
— C0 - C180 — C90 - C270

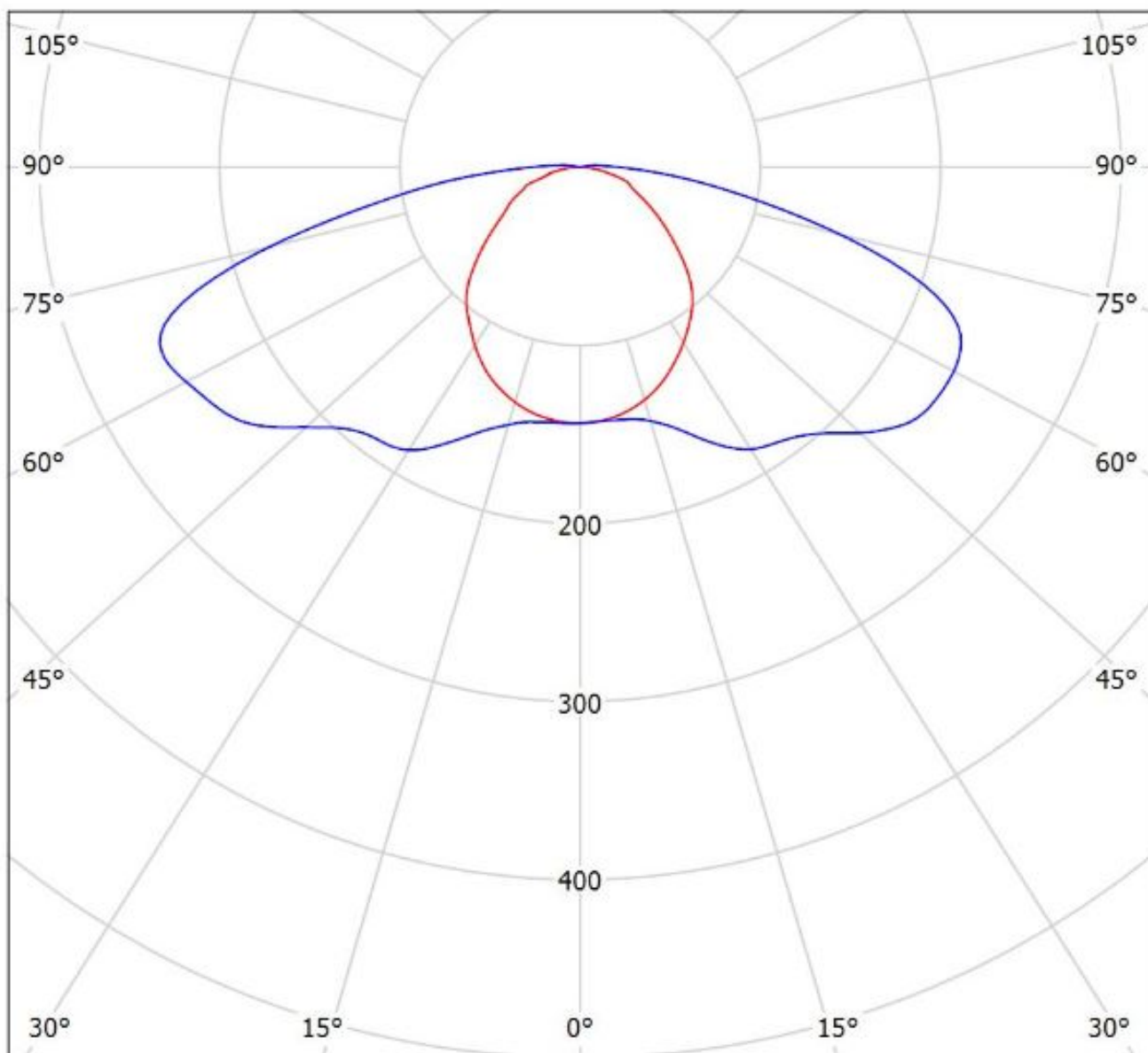
$\eta = 74\%$

Luminaire: LEDiL Oy F16048\_LINNEA-UP\_(Duris\_S5\_1chip)  
Lamps: 1 x Osram\_Duris\_S5\_1chip\_(GWPSLM31\_EM-GUHQ-A535-1)  
\_359.255lm@65mA\_P=2.13817W\_U=33.253V



Luminaire: Ledil F16048\_LINNEA-UP\_(Fortimo\_LED\_Strip\_1ft\_1100lm\_FC\_HV4)

Lamps: 1 x Philips\_Fortimo\_LED\_Strip\_1ft\_1100lm\_930\_FC\_HV4\_735.772lm@250mA\_P=5.6145W\_U=22.496V



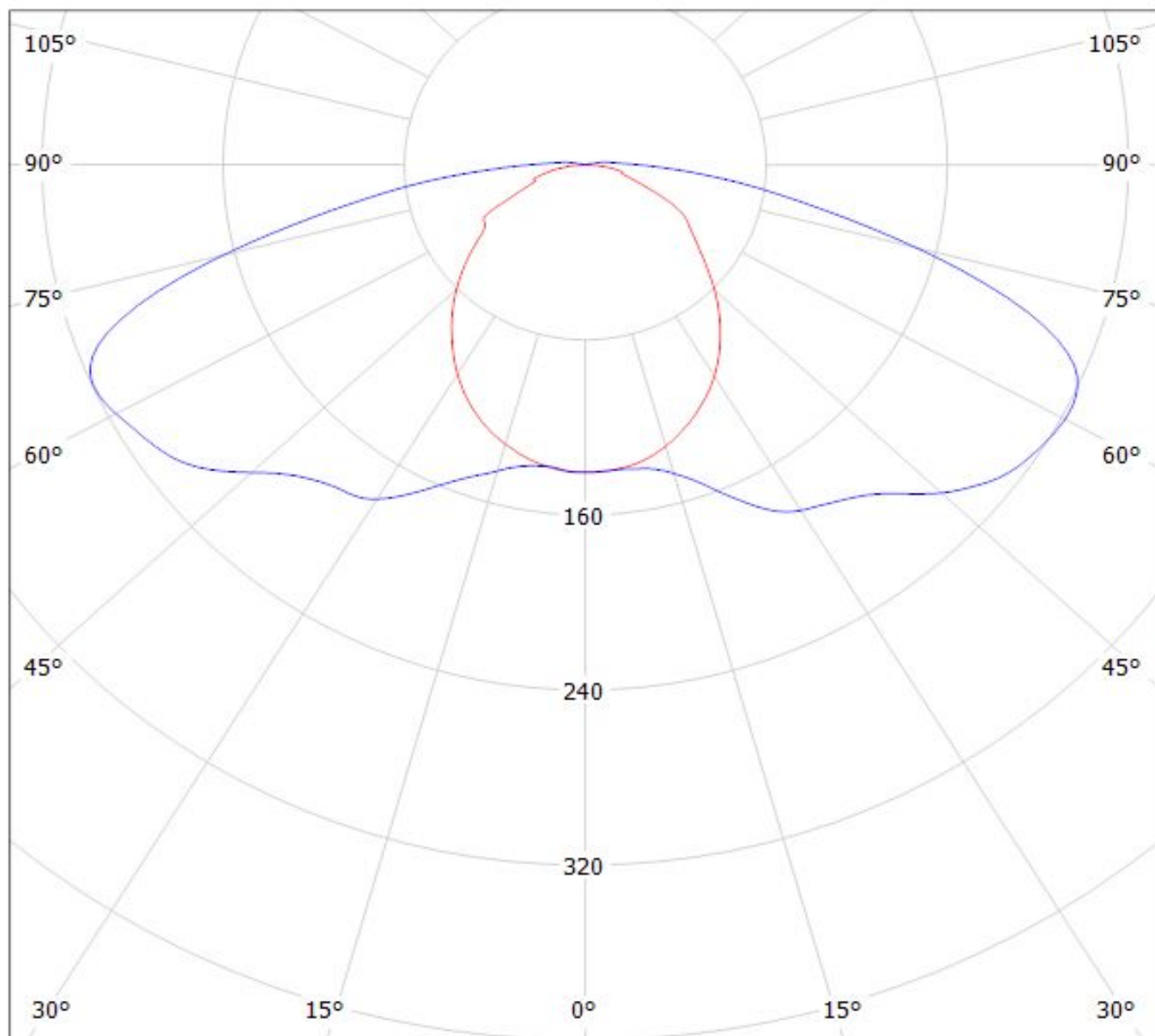
cd/klm

— C0 - C180 — C90 - C270

$\eta = 73\%$

Luminaire: Ledil F16048\_LINNEA-UP\_(Fortimo\_LED\_Strip\_1ft\_650lm\_FC\_LV4)

Lamps: 1 x Philips\_Fortimo\_LED\_Strip\_1ft\_650lm\_FC\_LV4\_994.849lm@190mA\_P=6.82273W\_U=35.990V



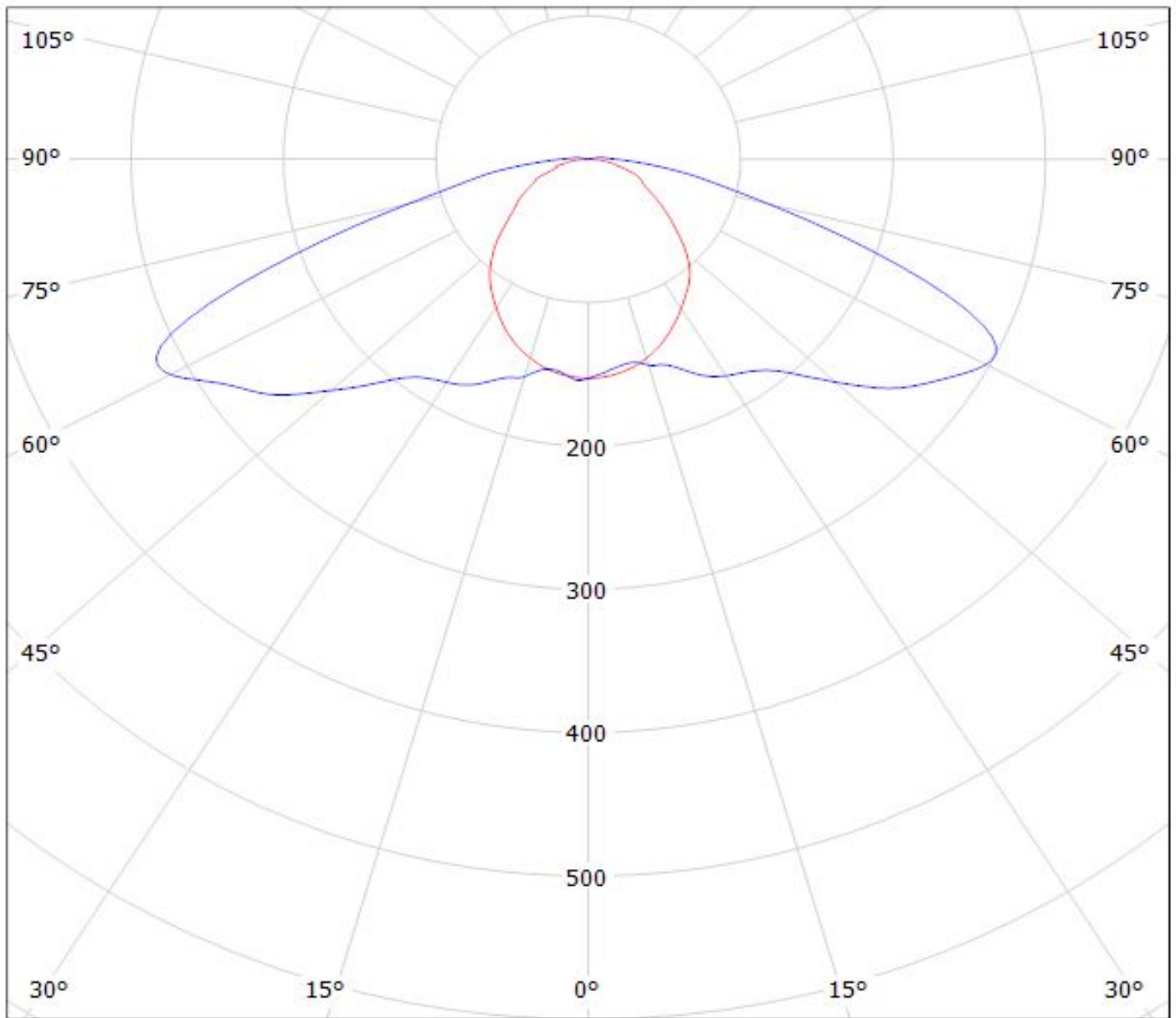
cd/klm

— C0 - C180 — C90 - C270

$\eta = 73\%$

Luminaire: Ledil F16048\_LINNEA-UP\_(LT-S282H)

Lamps: 1 x Samsung\_LT-S282H\_(LM561B+)\_1151.7lm@300mA\_P=7.2015W\_U=24.005V



cd/klm

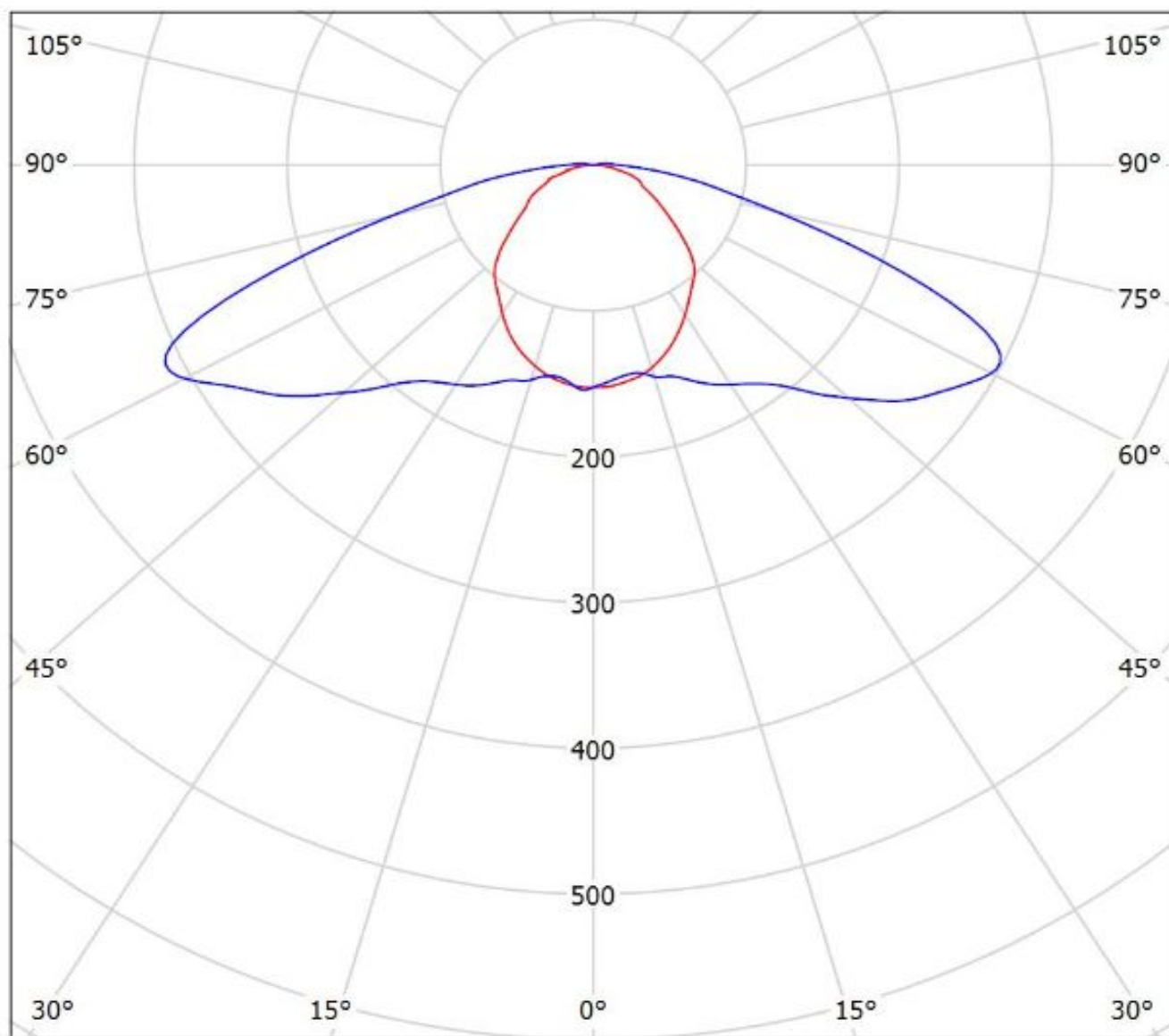
— C0 - C180 — C90 - C270

$\eta = 77\%$



Luminaire: Ledil F16048\_LINNEA-UP\_(LT-Q282B)

Lamps: 1 x Samsung\_LT-Q282B\_(LM301B\_SI-B8T053280EU)\_943.526lm@180mA\_P=4.99618W\_U=27.805V



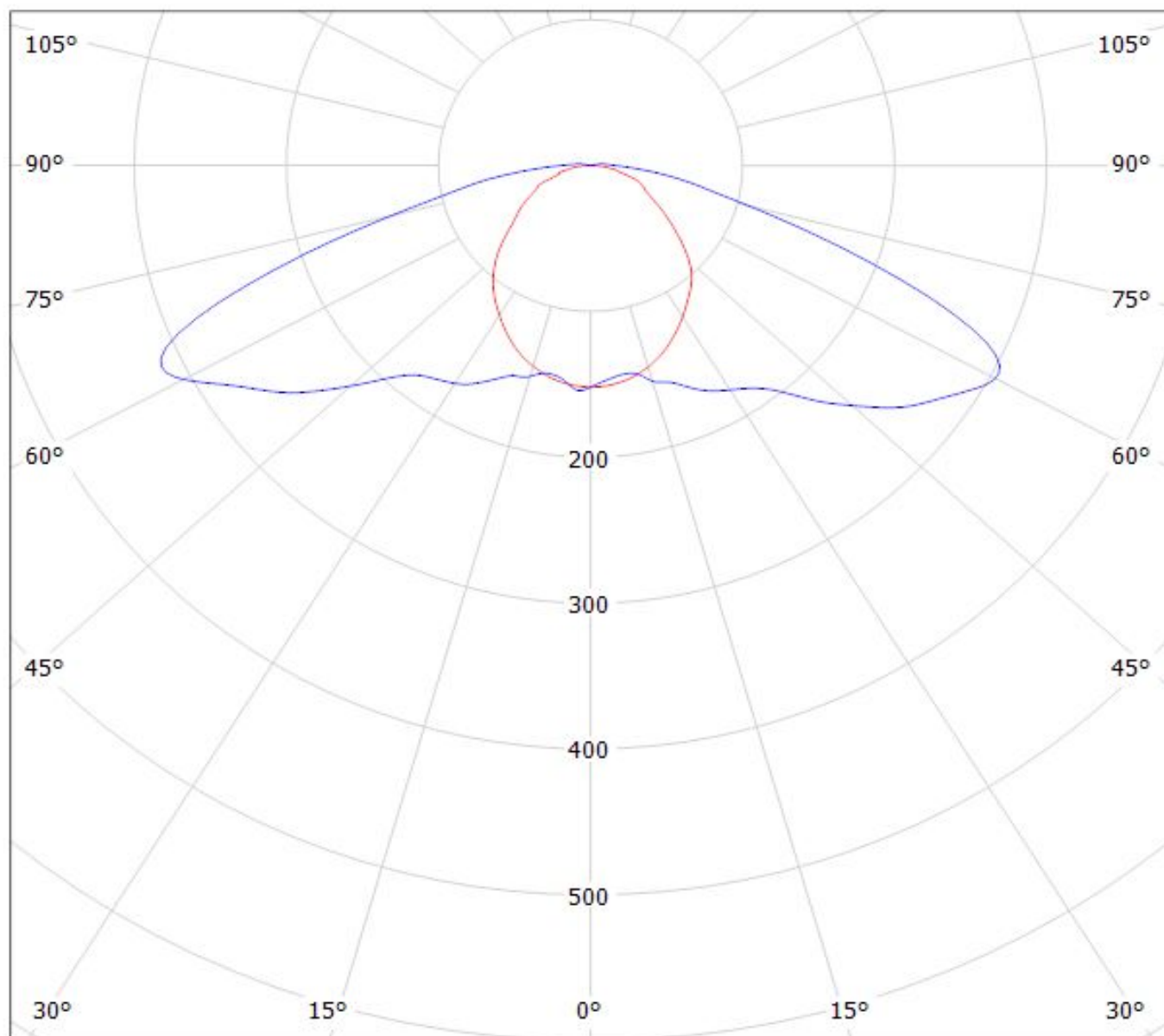
cd/klm

— C0 - C180    — C90 - C270

$\eta = 77\%$

Luminaire: LEDiL Oy F16048\_LINNEA-UP\_(LT-H282C)

Lamps: 1 x Samsung\_LT-H282C\_(LM561C)\_1003.19lm@240mA\_CCT=4000K\_P=5.41512W\_U=22.562V



cd/klm

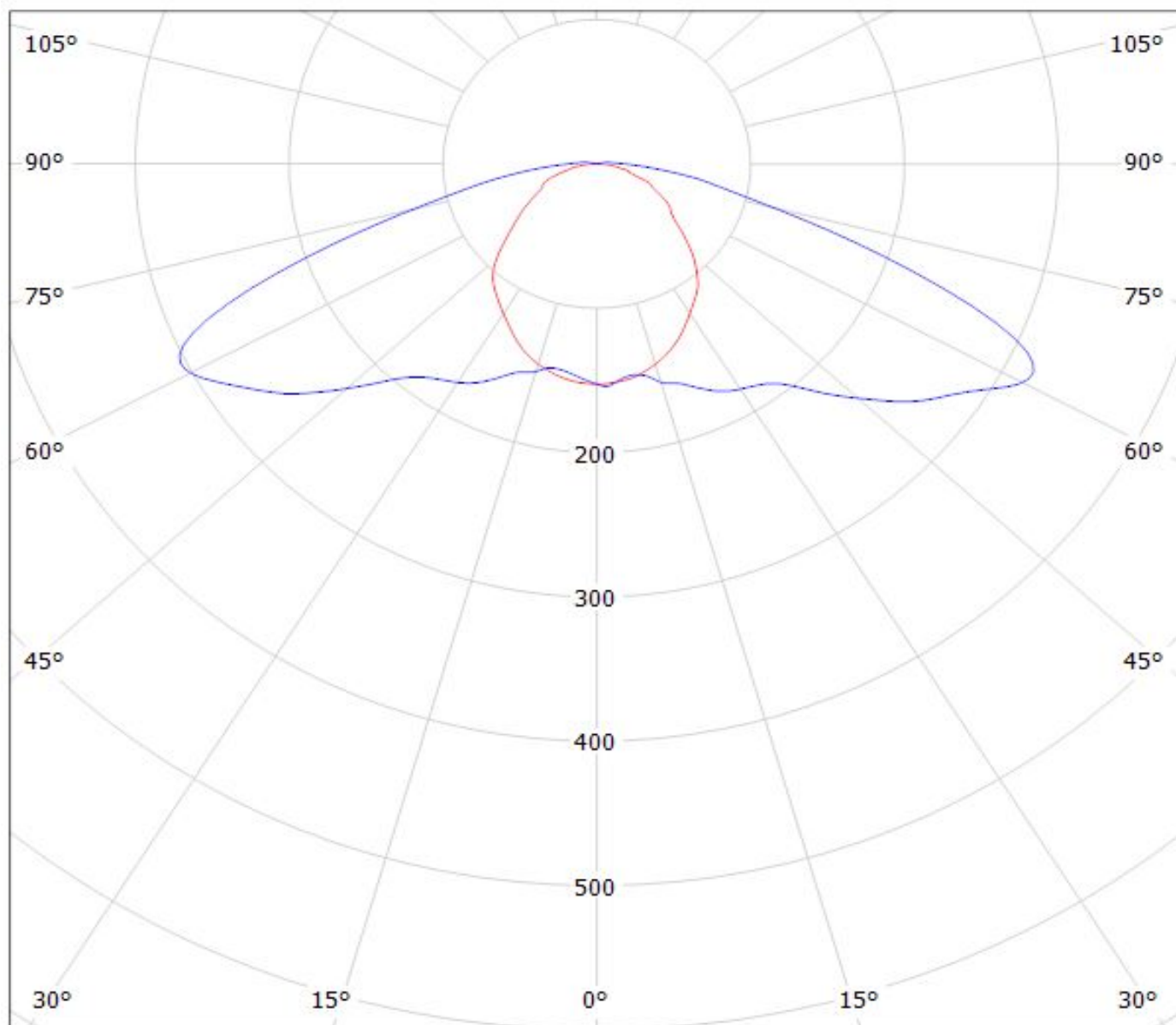
— C0 - C180    — C90 - C270

$\eta = 77\%$



Luminaire: Ledil F16048 LINNEA-UP\_(LT-V282E)

Lamps: 1 x Samsung\_LT-V282E\_1080.75lm@300mA\_CCT=4000K\_P=7.1421W\_U=23.807V



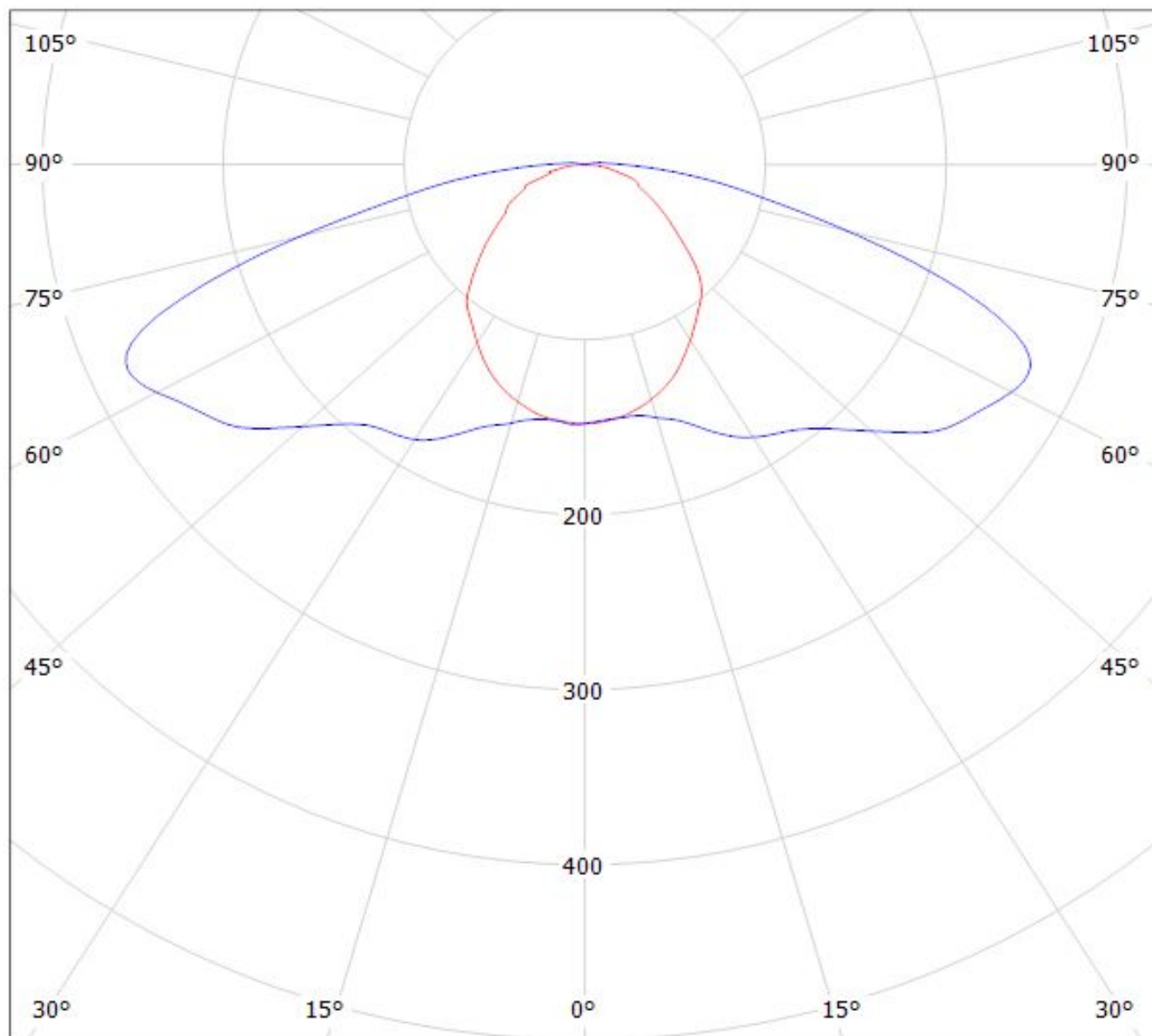
cd/klm

— C0 - C180 — C90 - C270

$\eta = 77\%$

Luminaire: Ledil F16048\_LINNEA-UP\_(SunLike 3030)

Lamps: 1 x SEOUL\_SunLike 3030\_(STW9C2PB-S)\_2\_240.649lm@0.65mA\_P=2.30531W\_U=35.538V



cd/klm

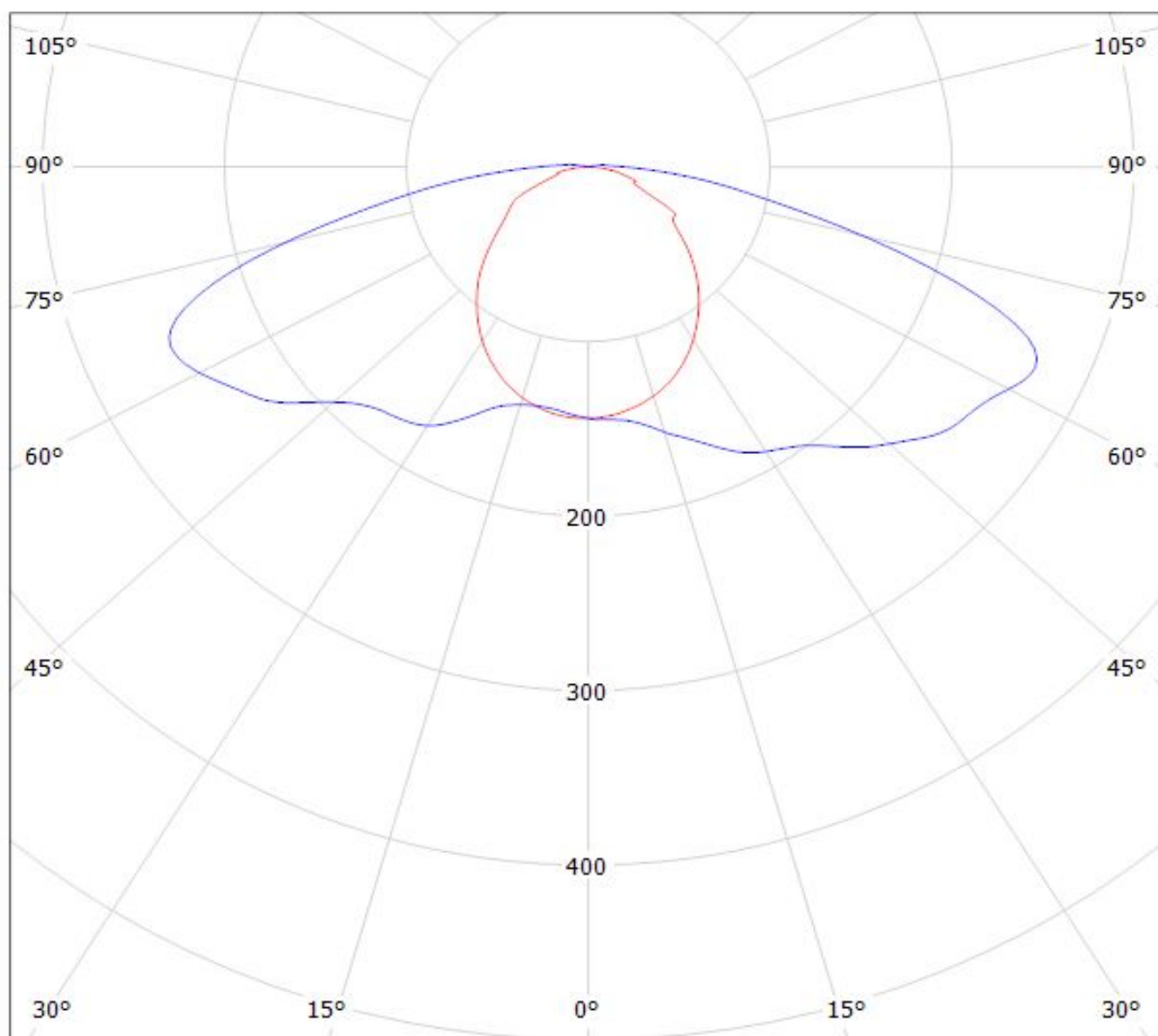
— C0 - C180 — C90 - C270

$\eta = 76\%$

Luminaire: LEDiL Oy F16048\_LINNEA-UP\_(LLE\_G4\_24x280mm\_650lm\_840\_2T\_ADV)

Lamps: 1 x

Tridonic\_LLE\_G4\_24x280mm\_650lm\_840\_2T\_ADV\_482.885lm@250mA\_CCT=4000K\_P=2.81637W\_U=11.27V



cd/klm

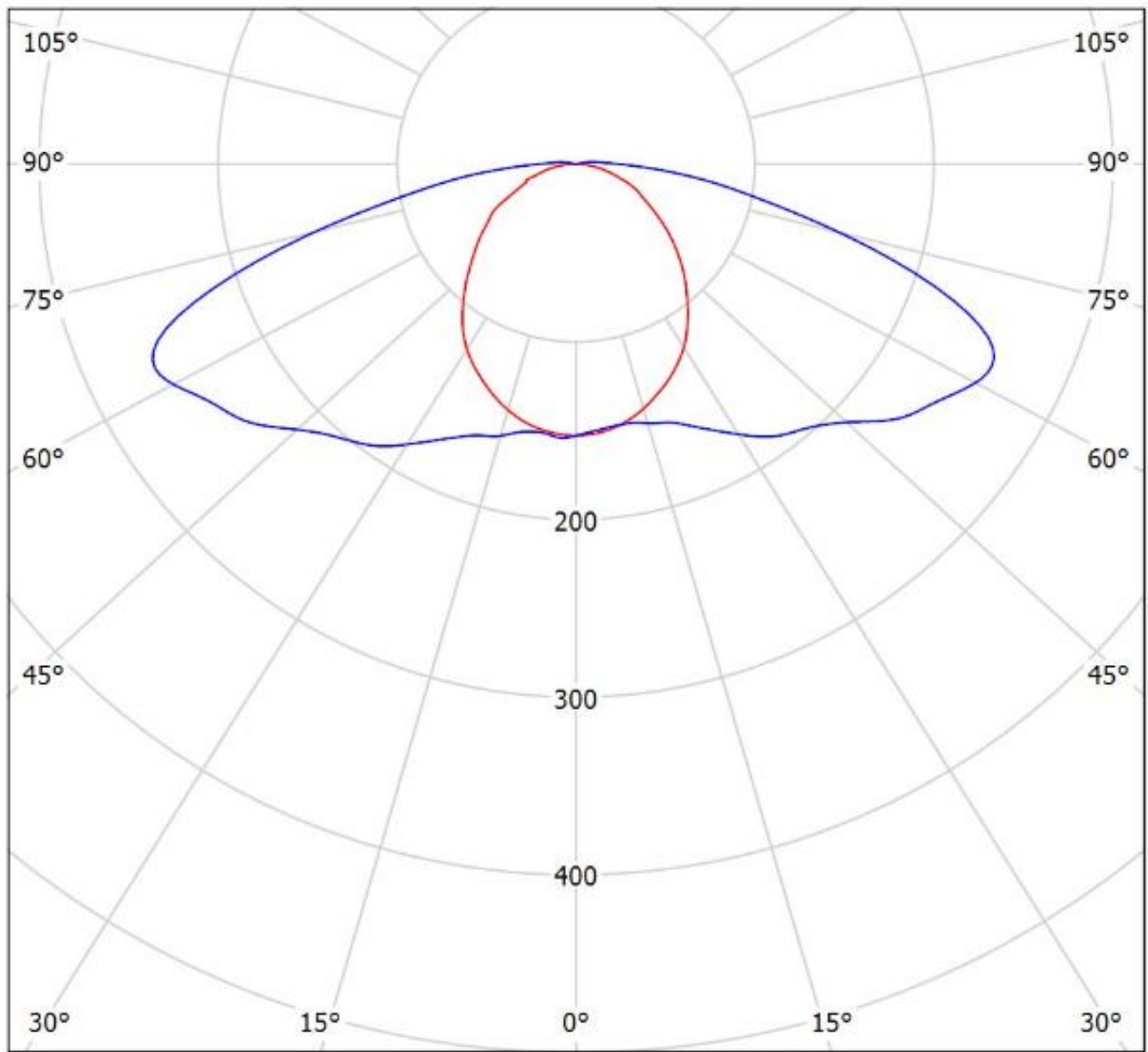
$\eta = 75\%$

— C0 - C180

— C90 - C270

Luminaire: Ledil F16048 LINNEA-UP\_(LLE\_G4\_24x280mm\_2000lm\_ADV)

Lamps: 1 x Tridonic\_LLE\_G4\_24x280mm\_2000lm\_840\_2T\_ADV\_1460.64lm@250mA\_P=8.47961W\_U=33.932V

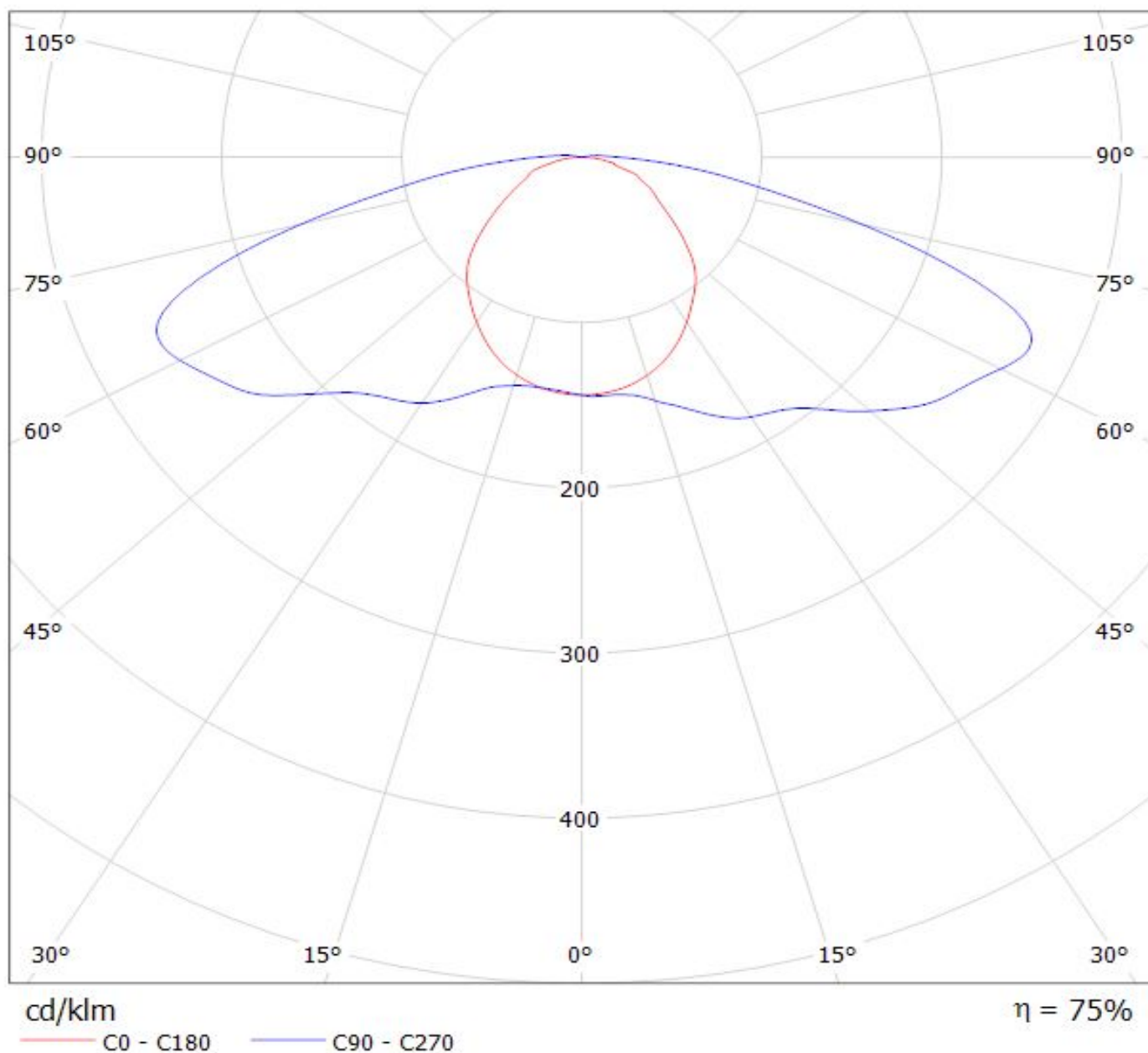


cd/klm

— C0 - C180    — C90 - C270

$\eta = 75\%$

Luminaire: Ledil F16048\_LINNEA-UP\_(LLE\_G4\_24x280mm\_1250lm\_840\_4T\_ADV)  
Lamps: 1 x Tridonic\_(LLE\_G4\_24x280mm\_1250lm\_840\_4T\_ADV)  
\_971.78lm@250mA\_CCT=4000K\_P=5.6355W\_U=22.5500V



**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.**