

## DETAILS

<b>Product Number</b>	F13853_FLORENCE-Z90
<b>Family</b>	Florence
<b>Type</b>	Lens array
<b>Color</b>	clear
<b>Diameter</b>	61 x 286 mm
<b>Height</b>	8,45 mm
<b>Style</b>	rectang
<b>Optic Material</b>	PMMA
<b>Holder Material</b>	
<b>Fastening</b>	screw
<b>Status</b>	production ready
<b>ROHS Compliant</b>	Yes
<b>Date Updated</b>	18/08/2015

## OPTICAL PROPERTIES

LED	Viewing Angle	Light Beam	Efficiency	cd/lm	Connector
5630 (ASMU-LWG0-NxxE)	92 deg	WWW-class	90 %	0.400	-
TRIDINO R3 8x0 1100 1ft HV	92 deg	WWW-class	87 %	0.410	-
XH-B/G	95 deg	WWW-class	82 %	0.370	-
LG 5630	93 deg	WWW-class	87 %	0.390	-
LG 6030	92 deg	WWW-class	88 %	0.410	-
LG 7030	sim: 91	WWW-class	-	sim: 0.320	-
LUXEON 3535 2D	92 deg	WWW-class	87 %	0.410	-
LUXEON 3030 2D	91 deg	WWW-class	87 %	0.420	-
LUXEON XR-3535L (L202 - xxxx033C3001)	91 deg	WWW-class	93 %	0.430	-
LUXEON 3535L HE	92 deg	WWW-class	93 %	0.420	-
MP-2016	90 deg	WWW-class	91 %	0.420	-
NF2x757D	92 deg	WWW-class	90 %	0.430	-
NF2x757G	sim: 90	WWW-class	sim: 80 %	sim: 0.370	-
Duris P5	94 deg	WWW-class	83 %	0.370	-
Duris S5 (Single chip)	91 deg	WWW-class	88 %	0.410	-
Duris E5	92 deg	WWW-class	88 %	0.400	-
PLG2-BAR-1100-xxx-280x55-DC	92 deg	WWW-class	92 %	0.420	-
Duris S2	95 deg	WWW-class	90 %	0.350	-
Fortimo LED Line 1ft 650lm 8x0 3R xV2/90deg	90 deg	WWW-class	87 %	0.390	-
Fortimo LED Line 1ft 1100lm xx0 3R xV2/90deg	90 deg	WWW-class	88 %	0.400	-
Fortimo LED Line 1ft 2000lm 8xx 3R HV290deg	90 deg	WWW-class	93 %	0.430	-
LM561B	86 deg	WWW-class	85 %	0.420	-
LM231 A/B	91 deg	WWW-class	88 %	0.414	-
LT-R286A	93 deg	WWW-class	93 %	0.410	-
LM561B Plus	92 deg	WWW-class	93 %	0.410	-





# PRODUCT DATASHEET

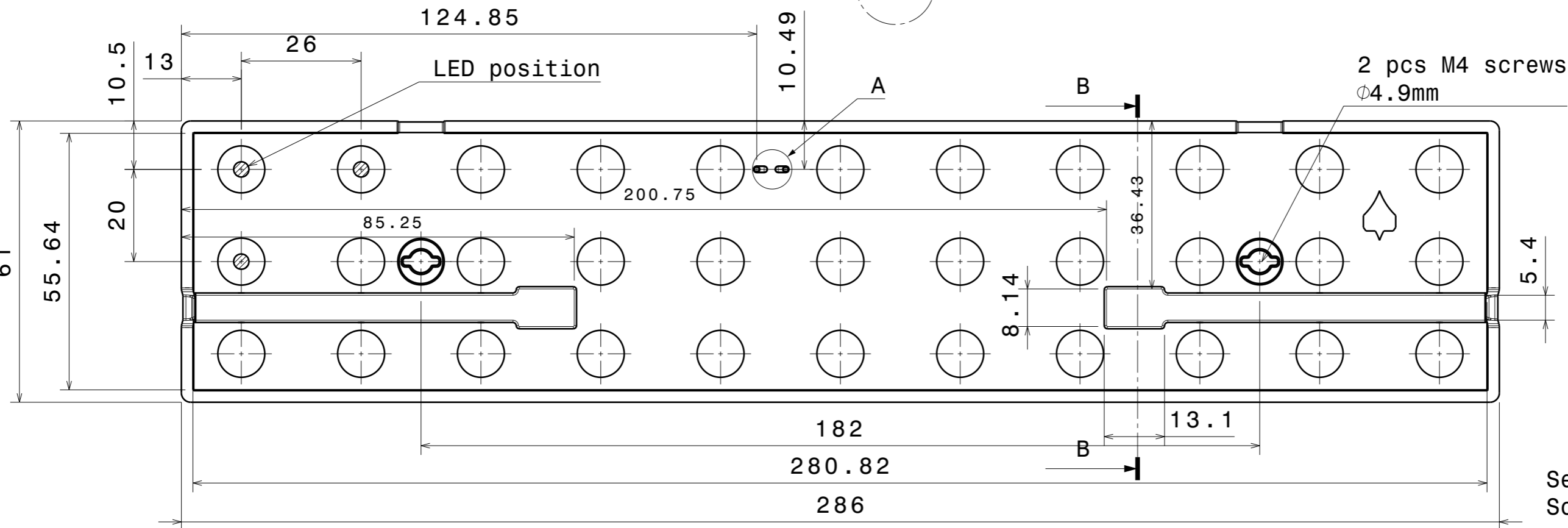
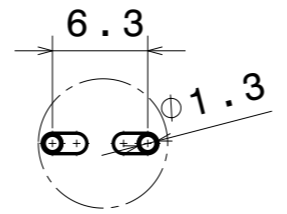
## Florence series

last update 18/8/2015

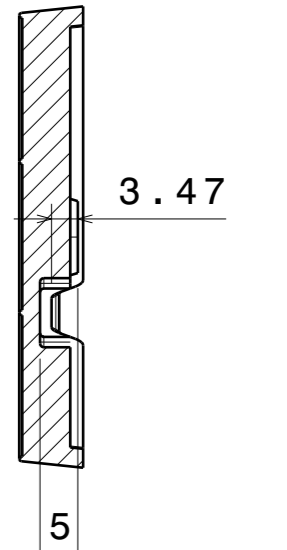
### OPTICAL PROPERTIES

LED	Viewing Angle	Light Beam	Effi- ciency	cd/lm	Connector
LM561C	92 deg	WWW-class	93 %	0.420	-
STARK LLE-55-280-1650 CLASSIC	93 deg	WWW-class	90 %	0.420	-

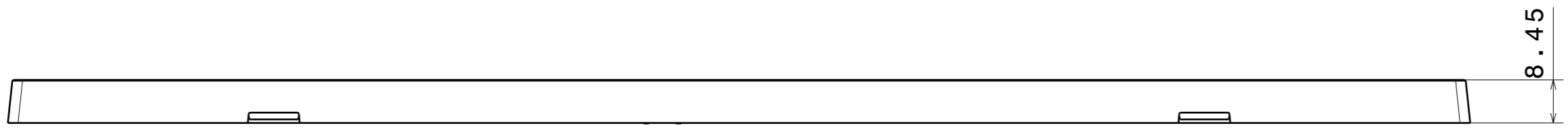
Detail A  
Scale: 2:1



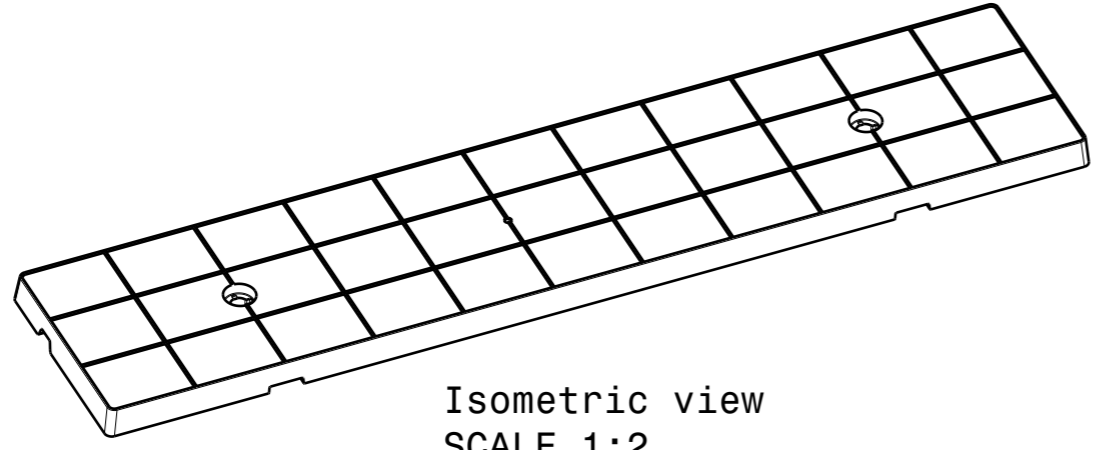
Bottom view



Section view B-B  
Scale: 1:1



Front view



Isometric view  
SCALE 1:2

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

<b>LEDiL</b>	LediL Oy Salorankatu 10 FIN 24240 SALO Finland		
	<b>DRAWING TITLE</b> Datasheet_FLORENCE-Z		

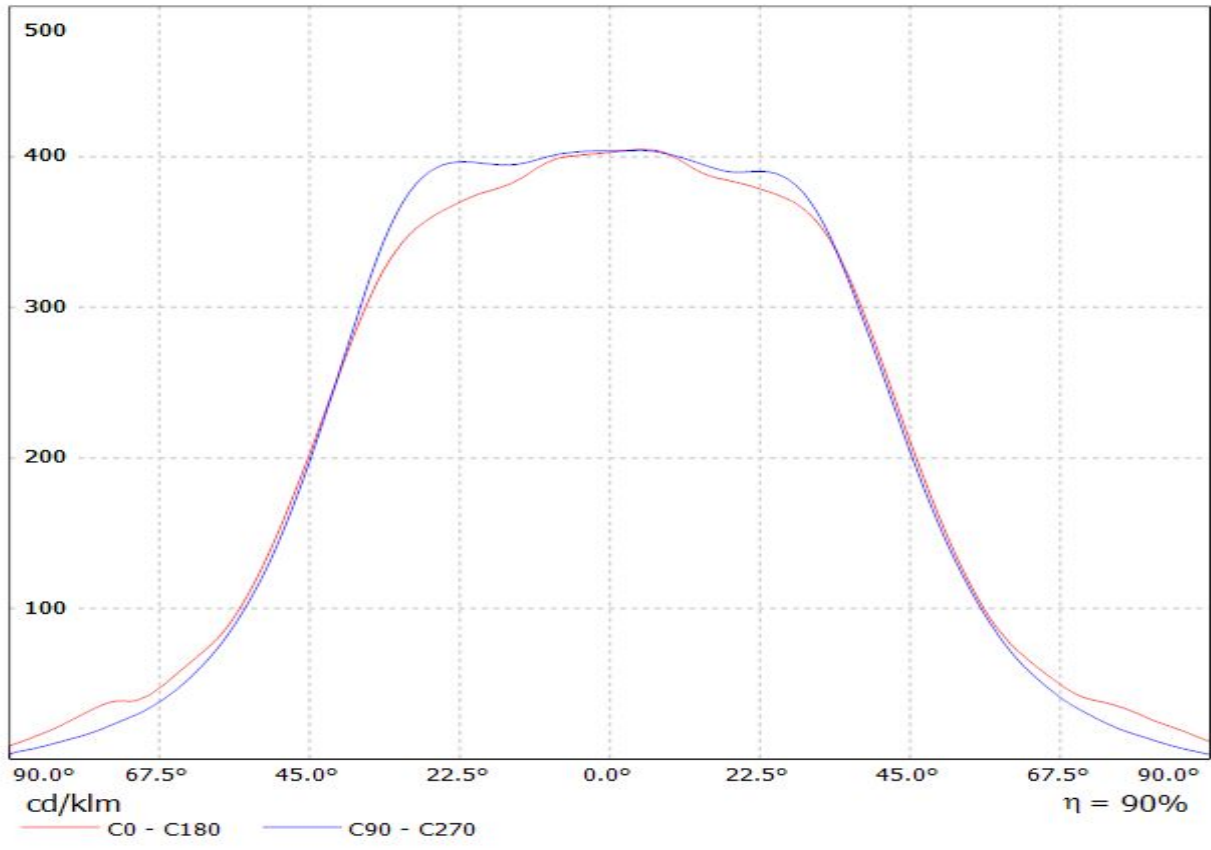
THIRD ANGLE PROJECTION:

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

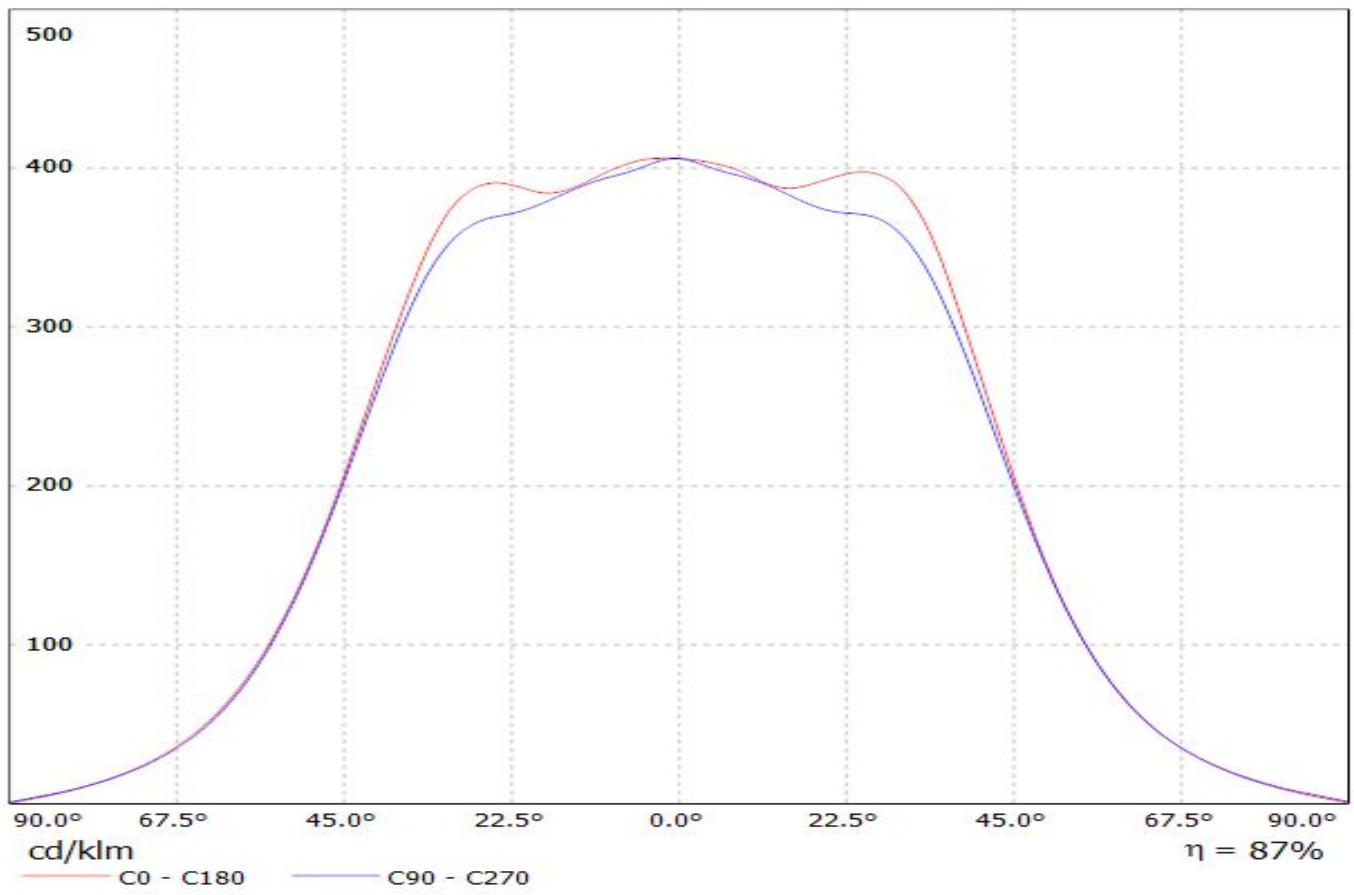
SIZE	PART NUMBER		
A3	MechanicalModel		

SCALE	1:1	WEIGHT	(g)	SHEET	1/1
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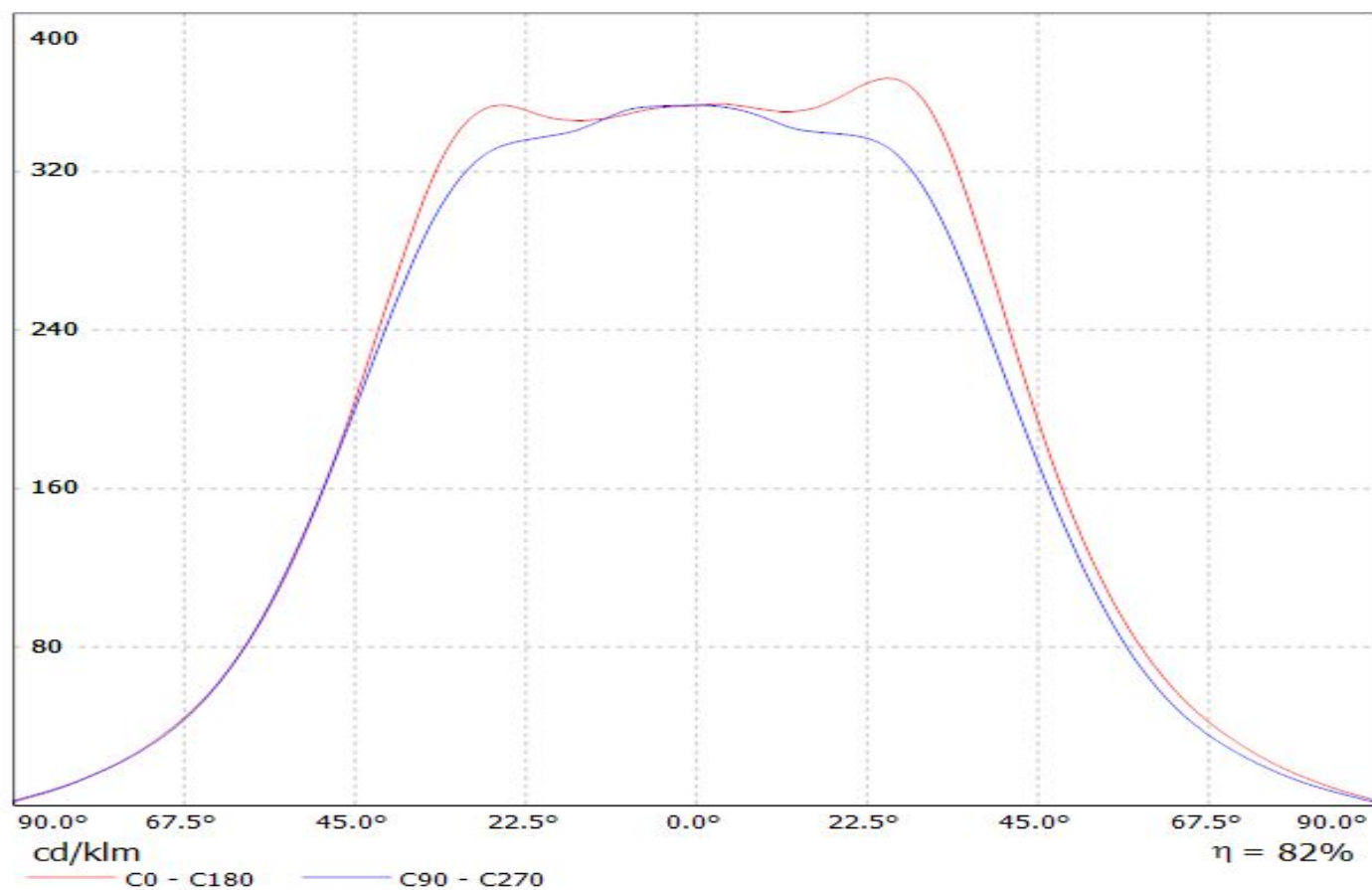
Luminaire: LEDiL Oy F13853\_FLORENCE-Z90\_(AVAGO 5630 0.5W)  
Lamps: 1 x AVAGO ASMU-LWG0-NxxxE 1677.82lm@420mA 34.8V



Luminaire: LEDiL Oy F13853\_FLORENCE-Z90\_(TRIDINO-R3)\_GS  
Lamps: 1 x Comet\_Electronic sin\_TRIDINO-R3-8x0-1100-1ft-HV\_1299.6lm@250mA\_P=8.07304W\_I=0.250A

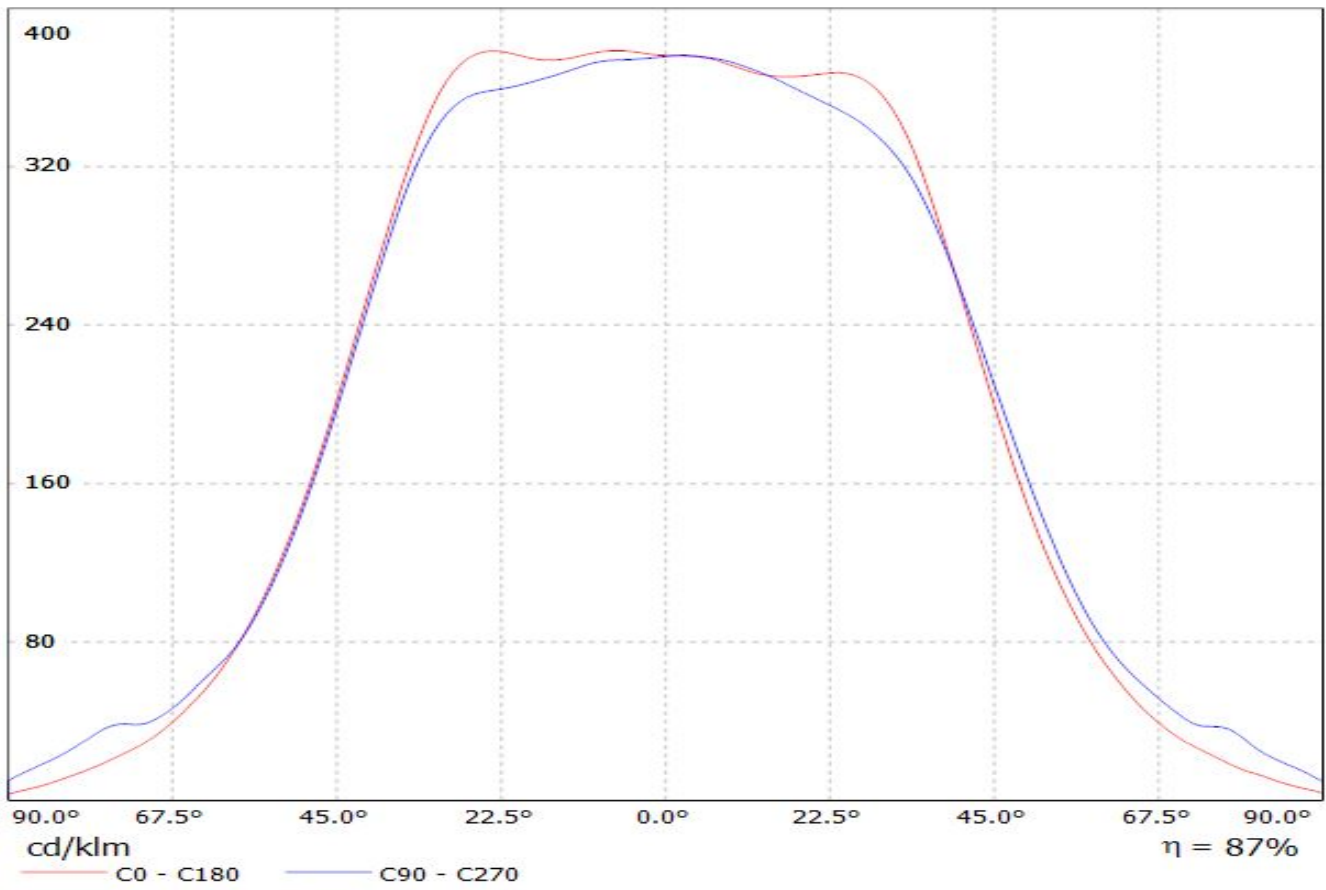


Luminaire: LEDiL Oy F13853\_FLORENCE-Z90\_(XH-B) EFF\_81.8%  
Lamps: 1 x CREE\_XH-B\_(XHGAWT-0-7B4-J30-0H-0001)  
\_1060.84lm@250mA\_CCT=5000K\_P=8W\_I=249.8mA

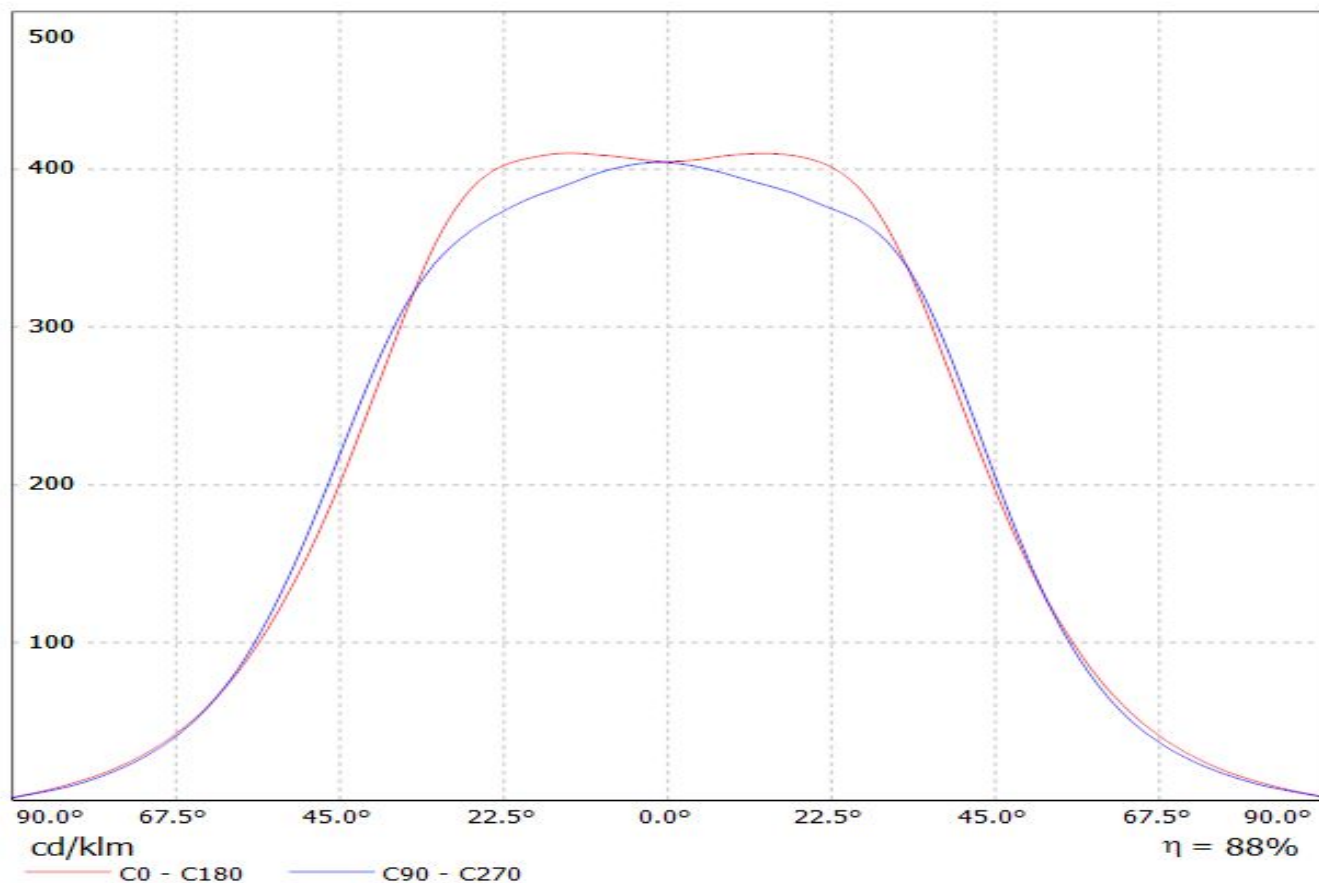


Luminaire: LEDiL Oy F13853\_FLORENCE-Z90 (LG5630)

Lamps: 1 x FLORENCE\_FORTIMO\_(LG\_5630)\_1100lm@250mA P=8.41224W I=250.7mA

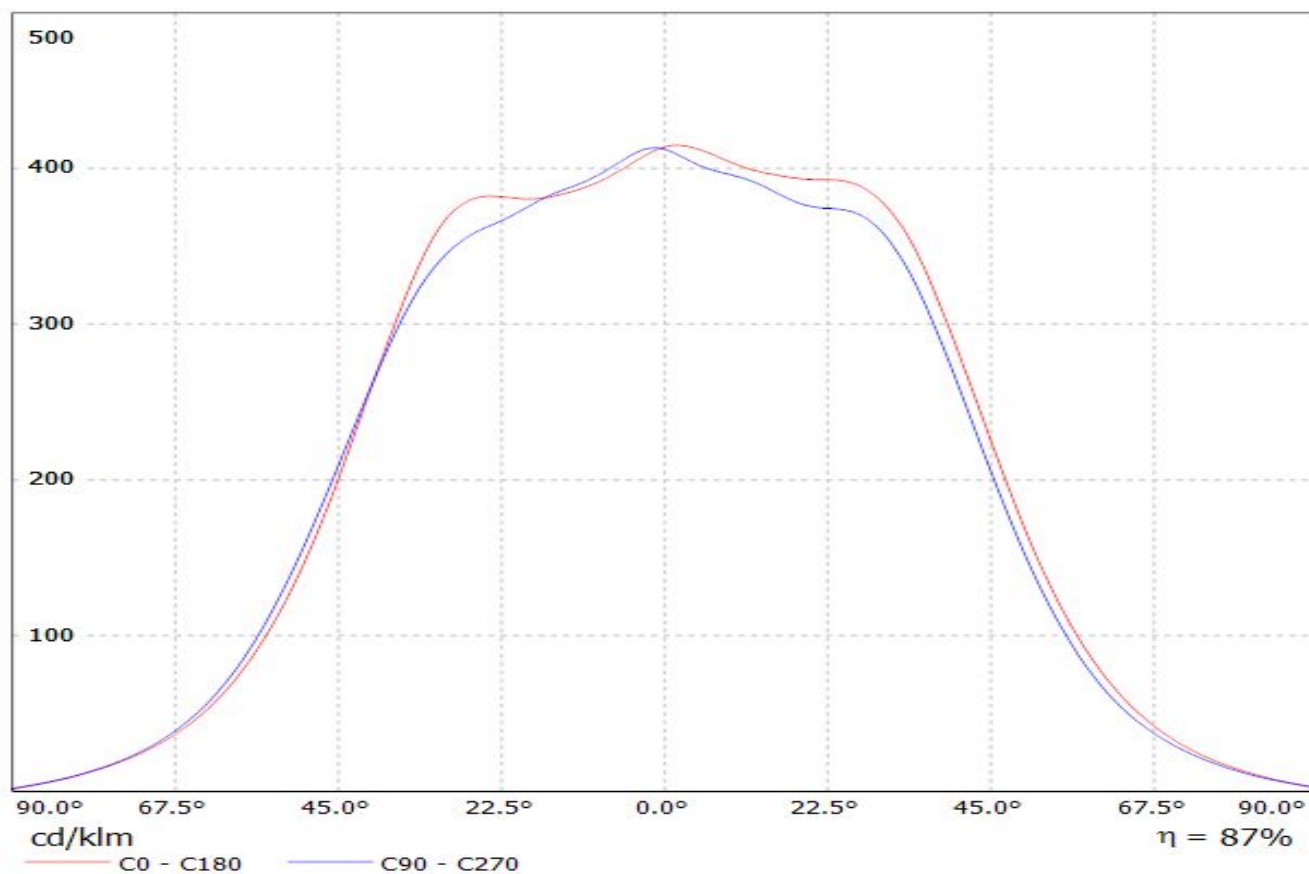


Luminaire: LEDiL Oy F13853\_FLORENCE-Z90\_LG\_6030) Eff.87.9%  
Lamps: 1 x LG\_6030\_(LEWMS68T80HZ)\_1031.47lm@240mA\_CCT=5000K\_P=7.54368W\_I=240mA



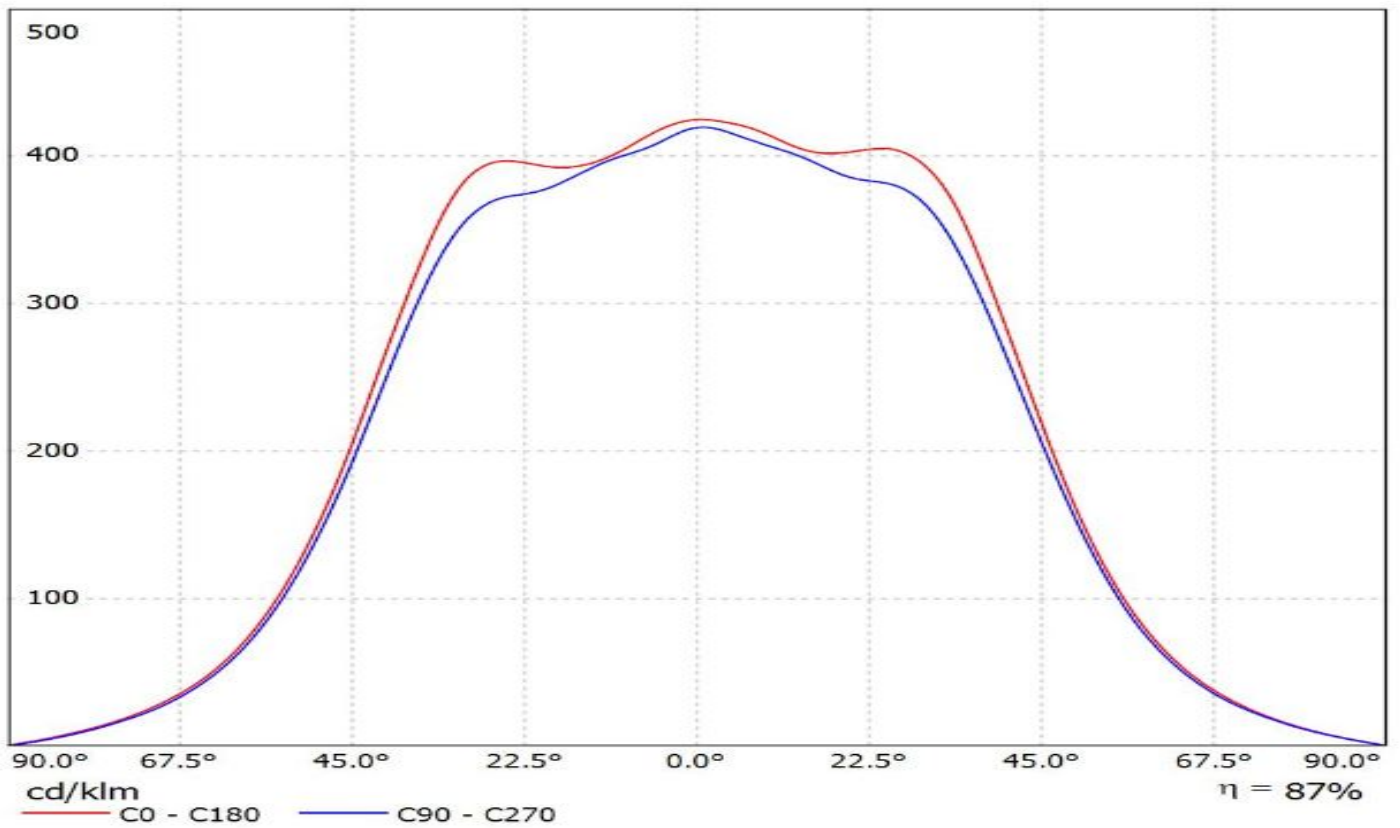


Luminaire: LEDiL Oy F13853\_FLORENCE-Z90\_(LUXEON\_3535\_2D) Eff.87.5%  
Lamps: 1 x LUXEON\_3535\_2D\_1513.88lm@200mA\_P=12.7114W\_I=199.9mA



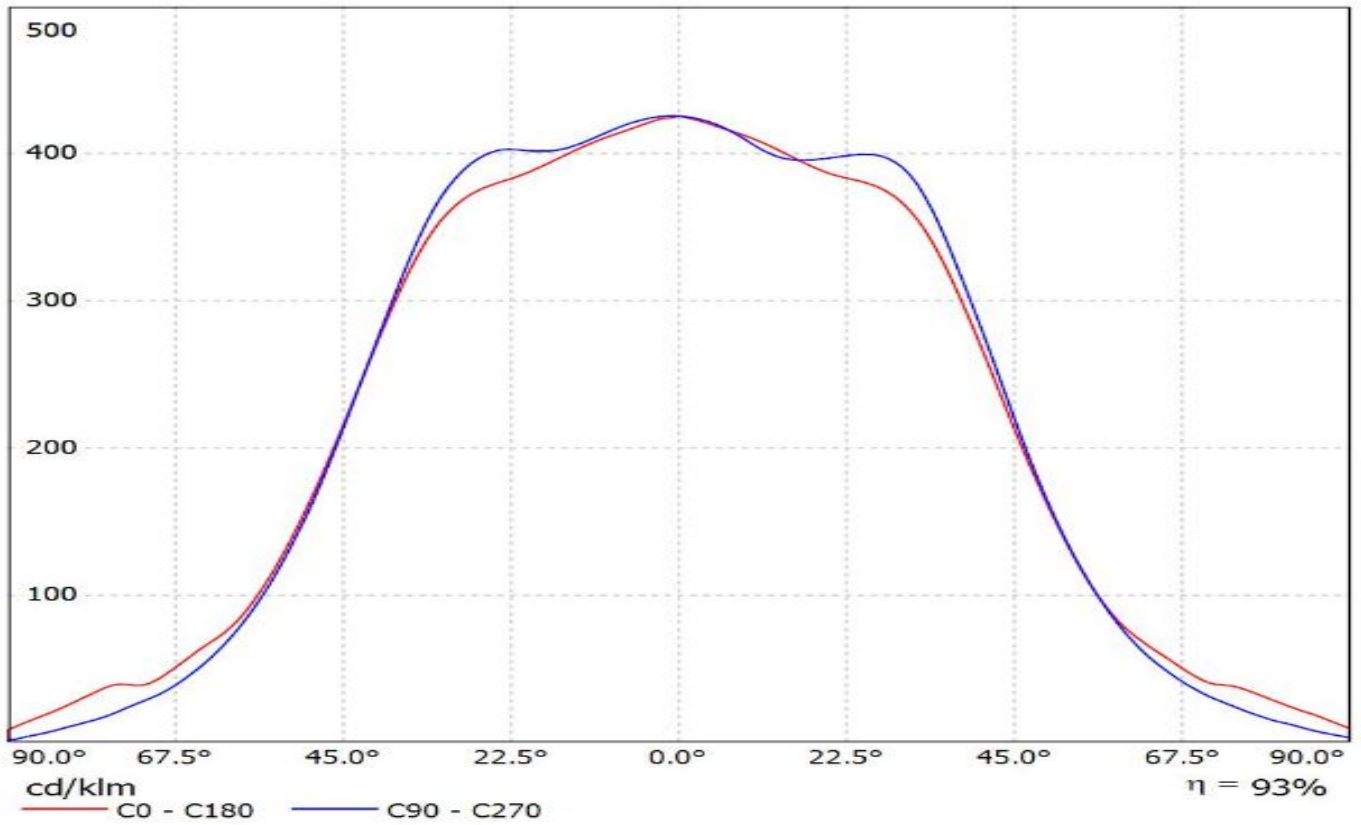
# Ledil F13853\_FLORENCE-Z90\_(Luxeon\_3030\_2D) / LDC (Linear)

Luminaire: Ledil F13853\_FLORENCE-Z90\_(Luxeon\_3030\_2D)  
Lamps: 1 x Luxeon\_3030\_2D\_3x11\_(L130-4080003000W21)  
\_2150lm@300mA\_CCT=4000K\_P=12.8W\_I=0.3A

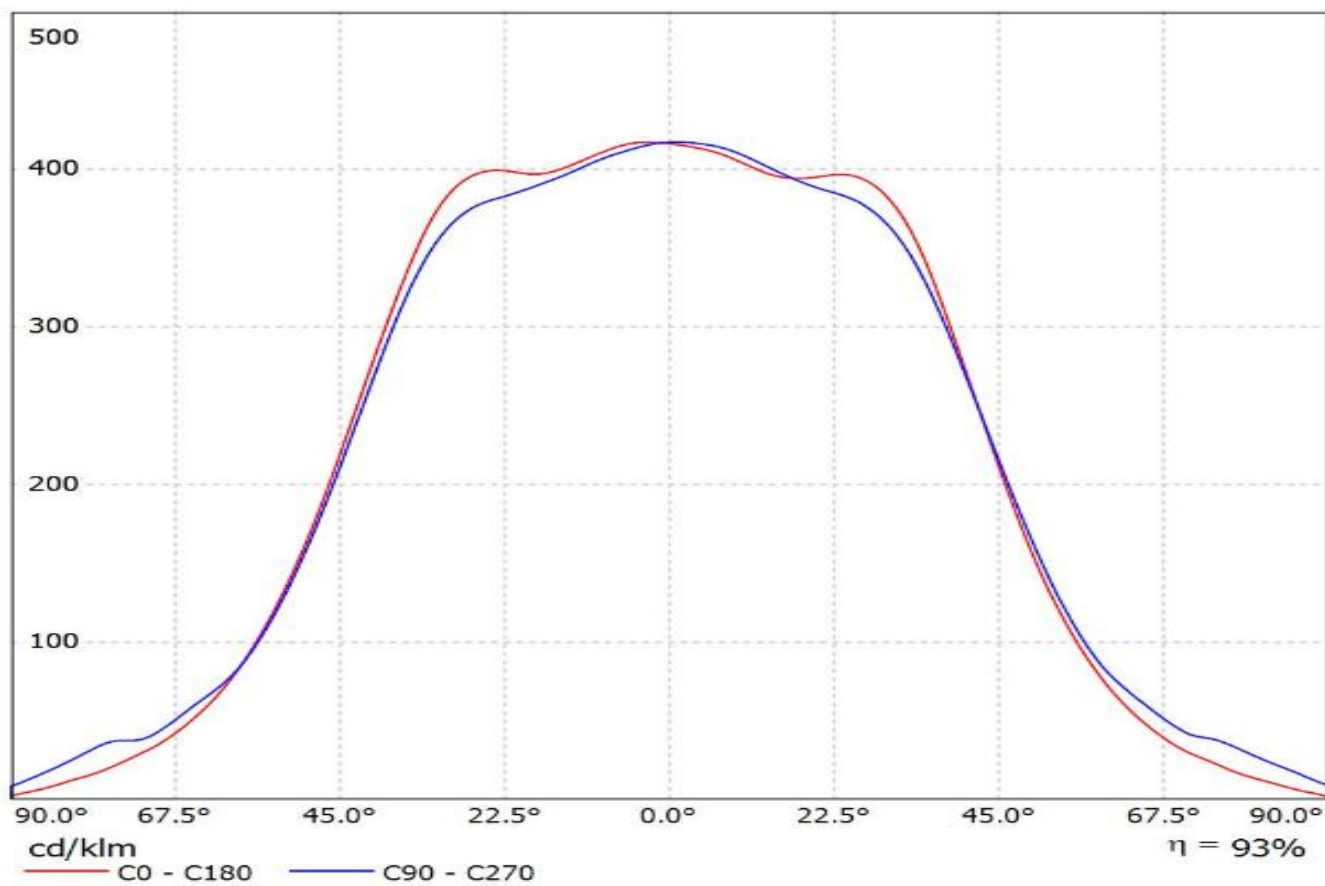


# Ledil F13853\_FLORENCE-Z90\_(Luxeon\_XR-3535L) / LDC (Linear)

Luminaire: Ledil F13853\_FLORENCE-Z90\_(Luxeon\_XR-3535L)  
Lamps: 1 x Lumileds\_Luxeon\_XR-3535L\_3x11\_(L202-3080033C30001)  
\_1087.37lm@250mA\_CCT=3000K\_P=8.15W\_I=0.25A



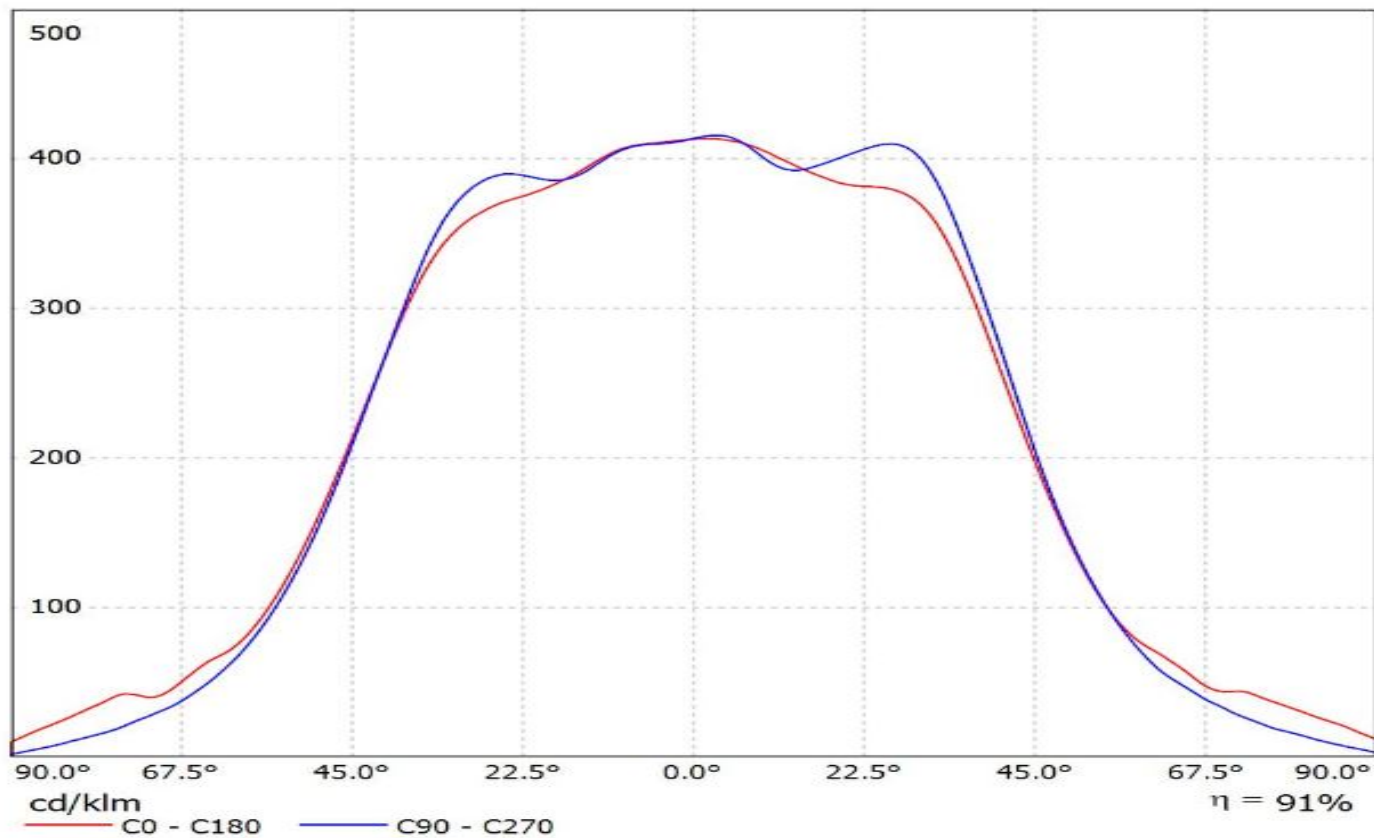
Luminaire: Ledil F13853\_FLORENCE-Z90\_(Luxeon 3535L HE)  
Lamps: 1 x Luxeon 3535L HE 1290.2lm@250mA\_P=7.7240W\_I=0.25A



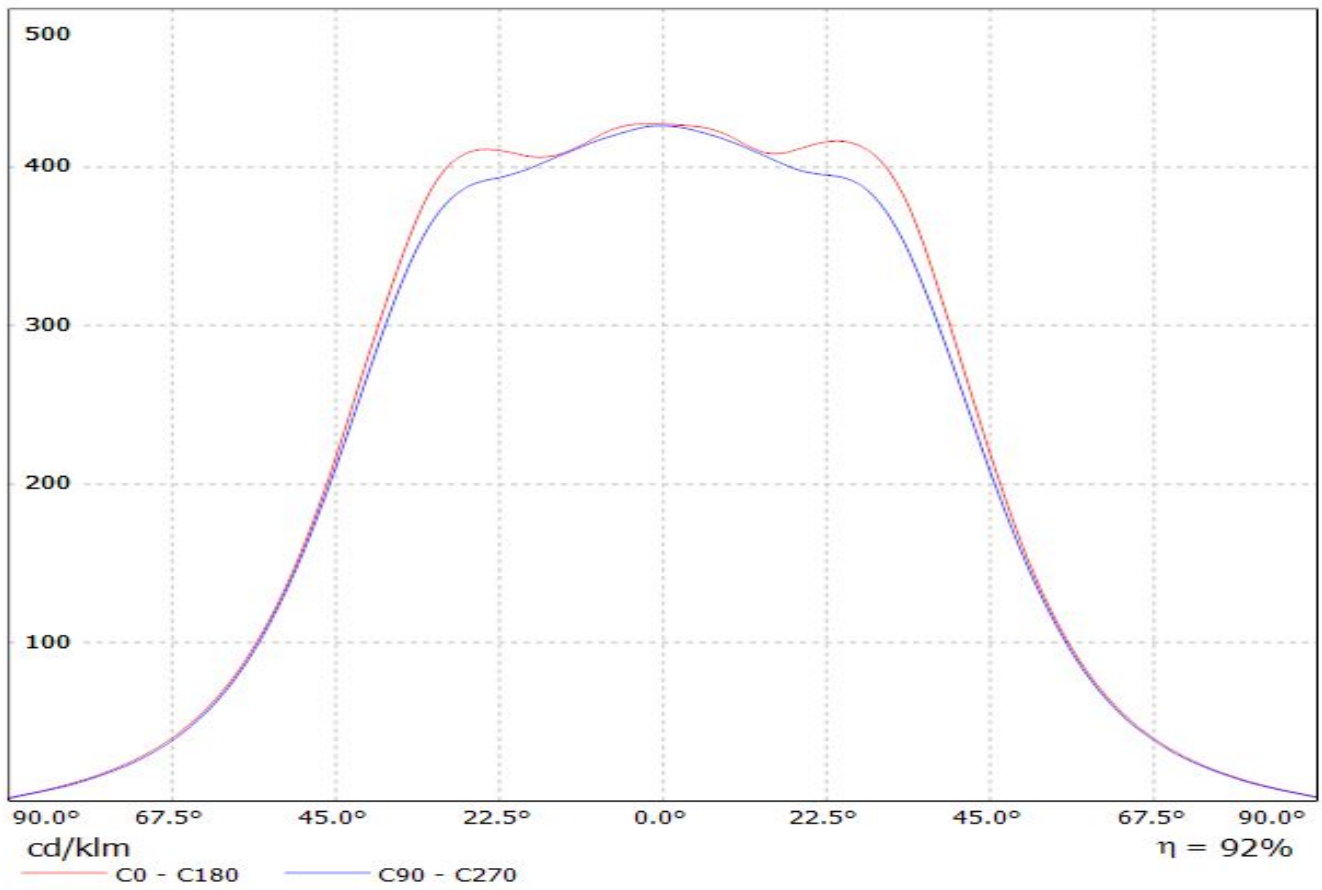
# Ledil F13853\_FLORENCE-Z90\_(MP-2016) / LDC (Linear)

Luminaire: Ledil F13853\_FLORENCE-Z90\_(MP-2016)

Lamps: 1 x Luminus\_MP-2016\_x22\_(LUMMP-1100-30-80)\_715.864lm@180mA\_P=6W\_I=0.18A

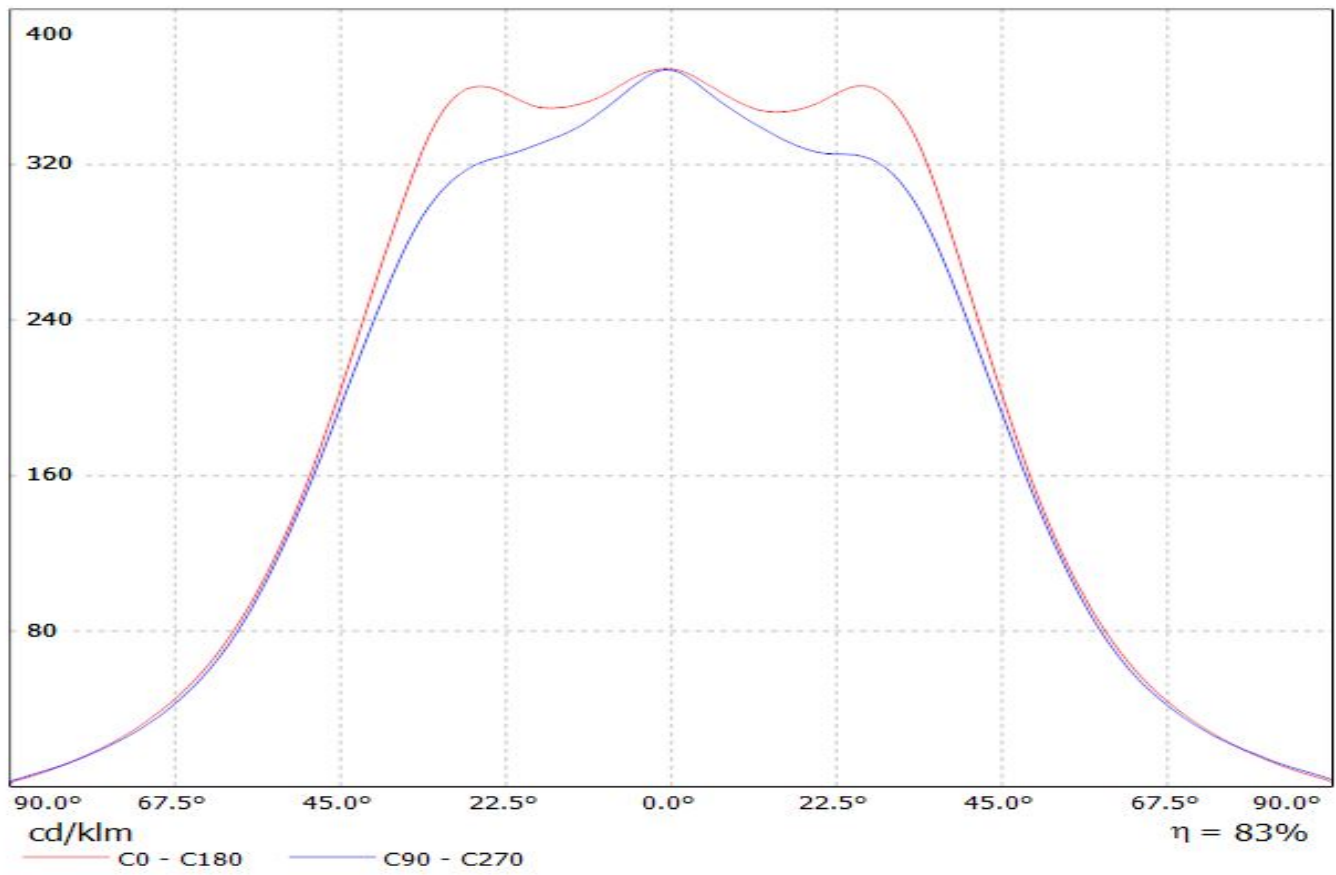


Luminaire: LEDiL Oy F13853\_FLORENCE-Z90\_(NICHIA757)  
Lamps: 1 x NICHIA757 (NT2W757DRT) 1387lm@150mA

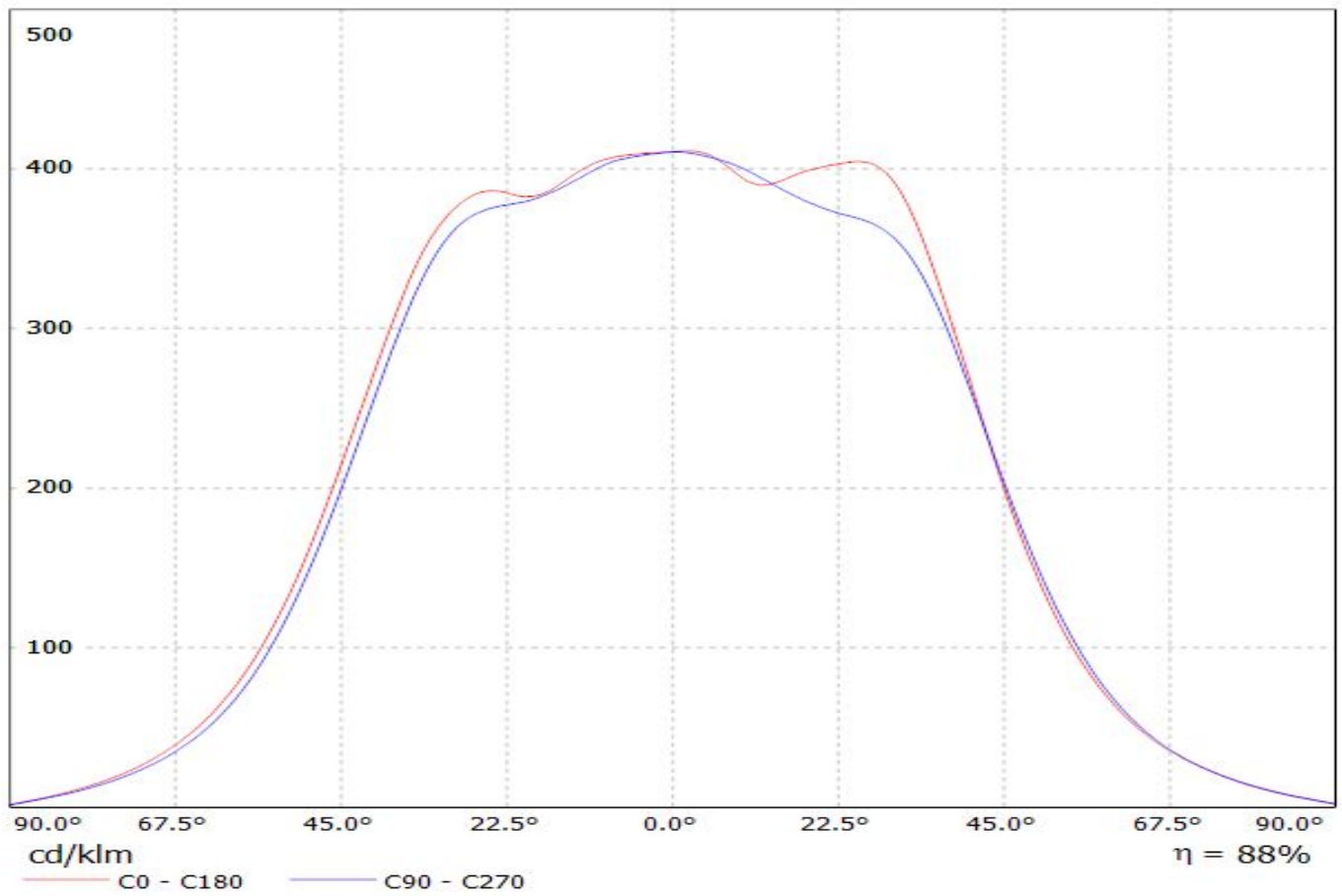


Luminaire: LEDiL Oy F13853\_FLORENCE-Z90\_(DURIS\_P5)

Lamps: 1 x OSRAM\_DURIS\_P5\_747.995lm@250mA\_P=7.78777W\_I=249.8mA

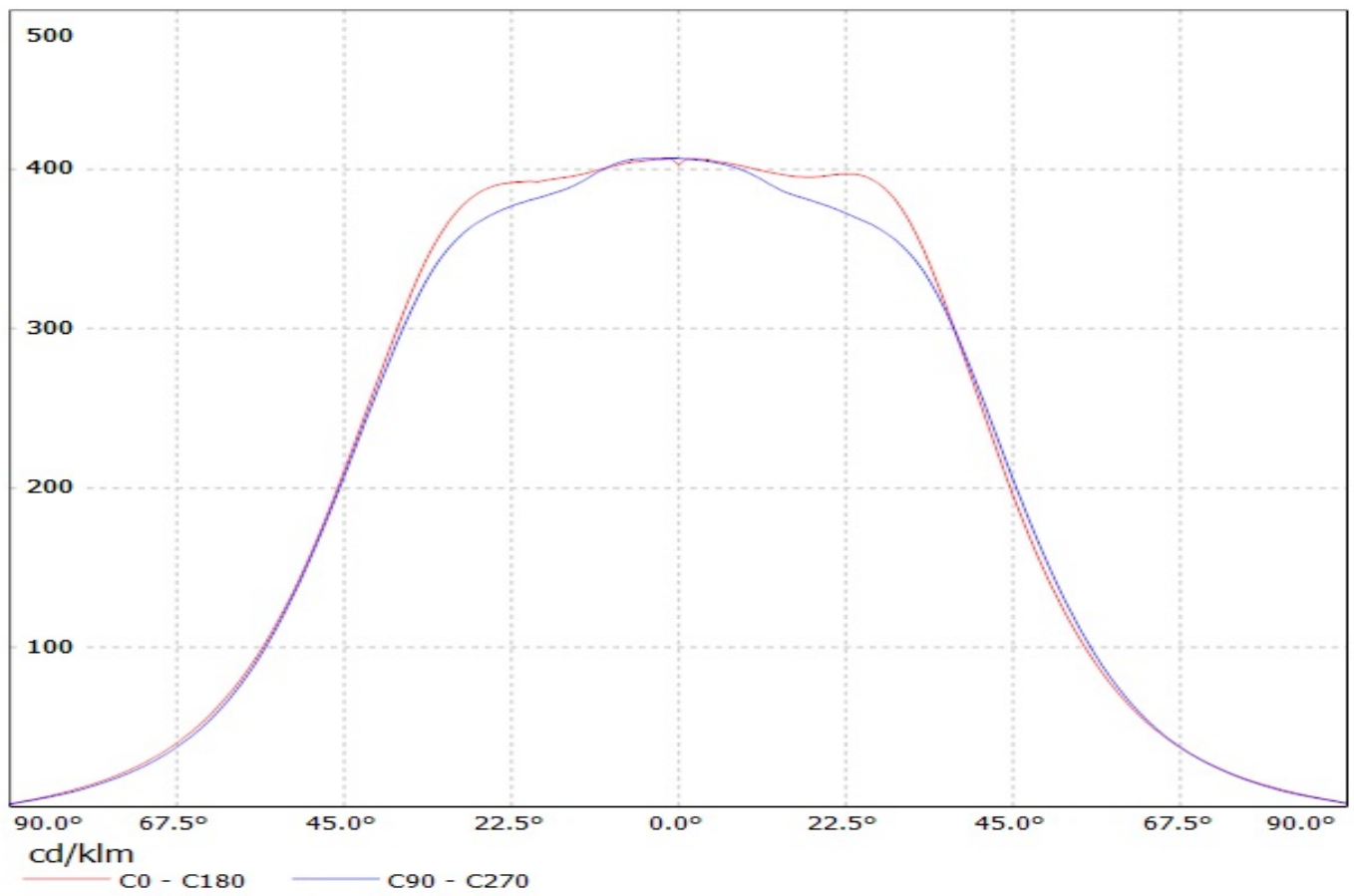


Luminaire: LEDiL Oy F13853\_FLORENCE-Z90\_(DURIS\_S5) Eff.87.5%  
Lamps: 1 x DURIS\_S5\_500.39lm@120mA\_P=3.76814W\_I=120.1mA



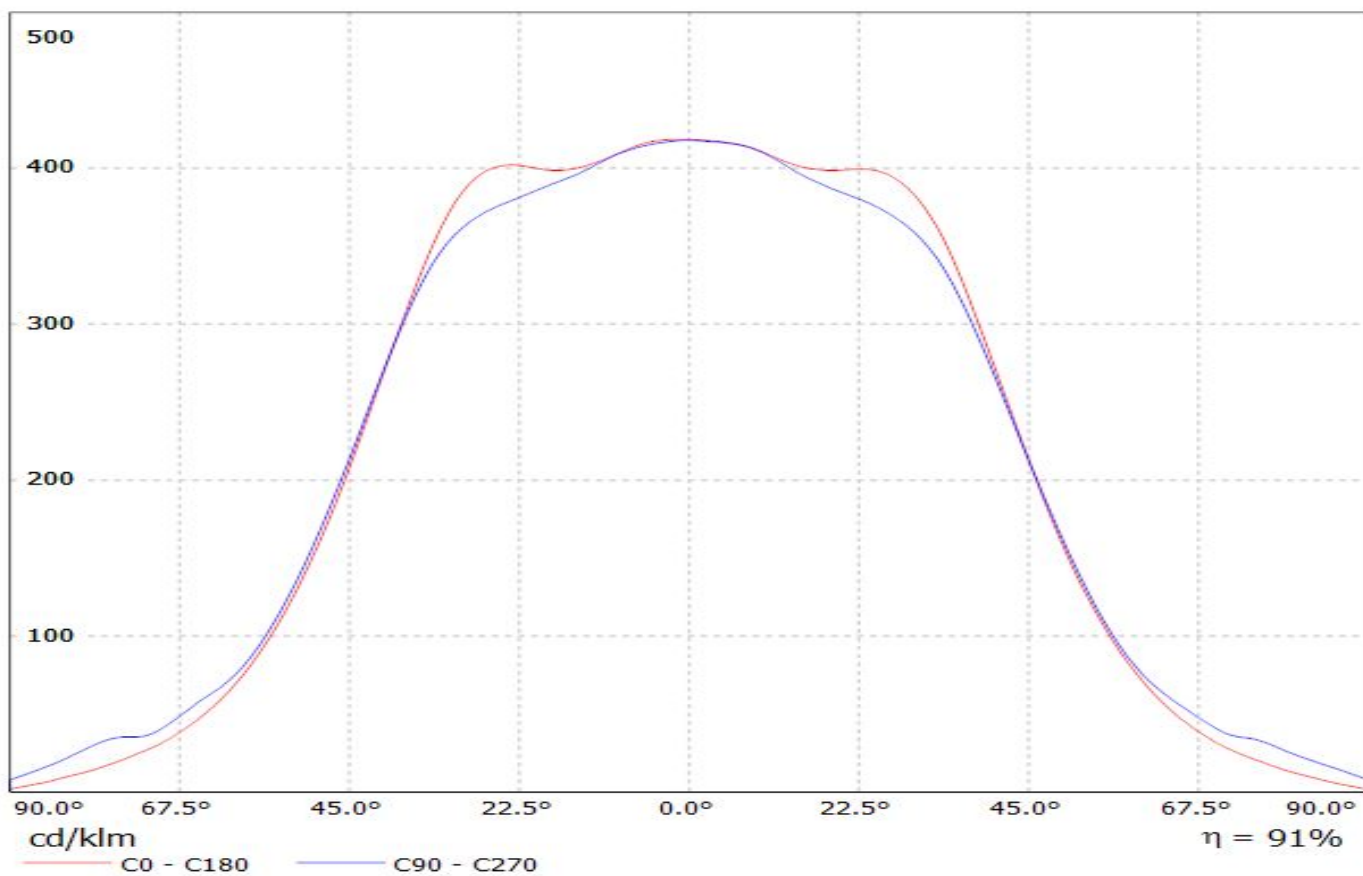


Luminaire: LEDiL Oy F13853\_FLORENCE-Z90\_(DURIS\_E5) Eff: 88%  
Lamps: 1 x Osram\_DURIS\_E5\_567.032lm@120mA\_P=3.6693W\_I=120.1mA

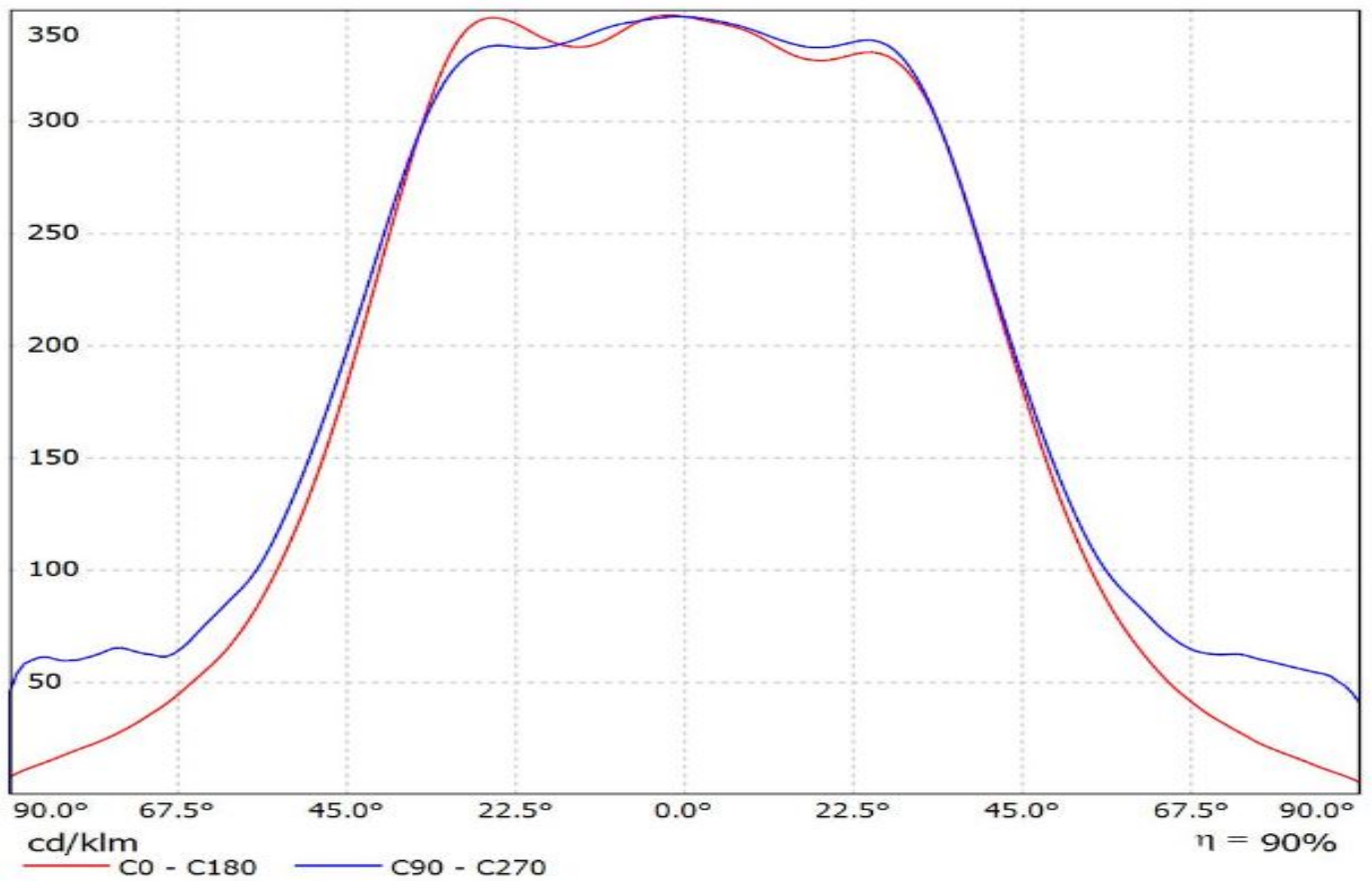


Luminaire: LEDiL Oy F13853\_FLORENCE-Z90\_(Osram\_PLG2-BAR)

Lamps: 1 x Osram\_PLG2-BAR -1100-830-280x55-DC\_1021.93lm@225mA\_P=7.1643W\_I=0.225A

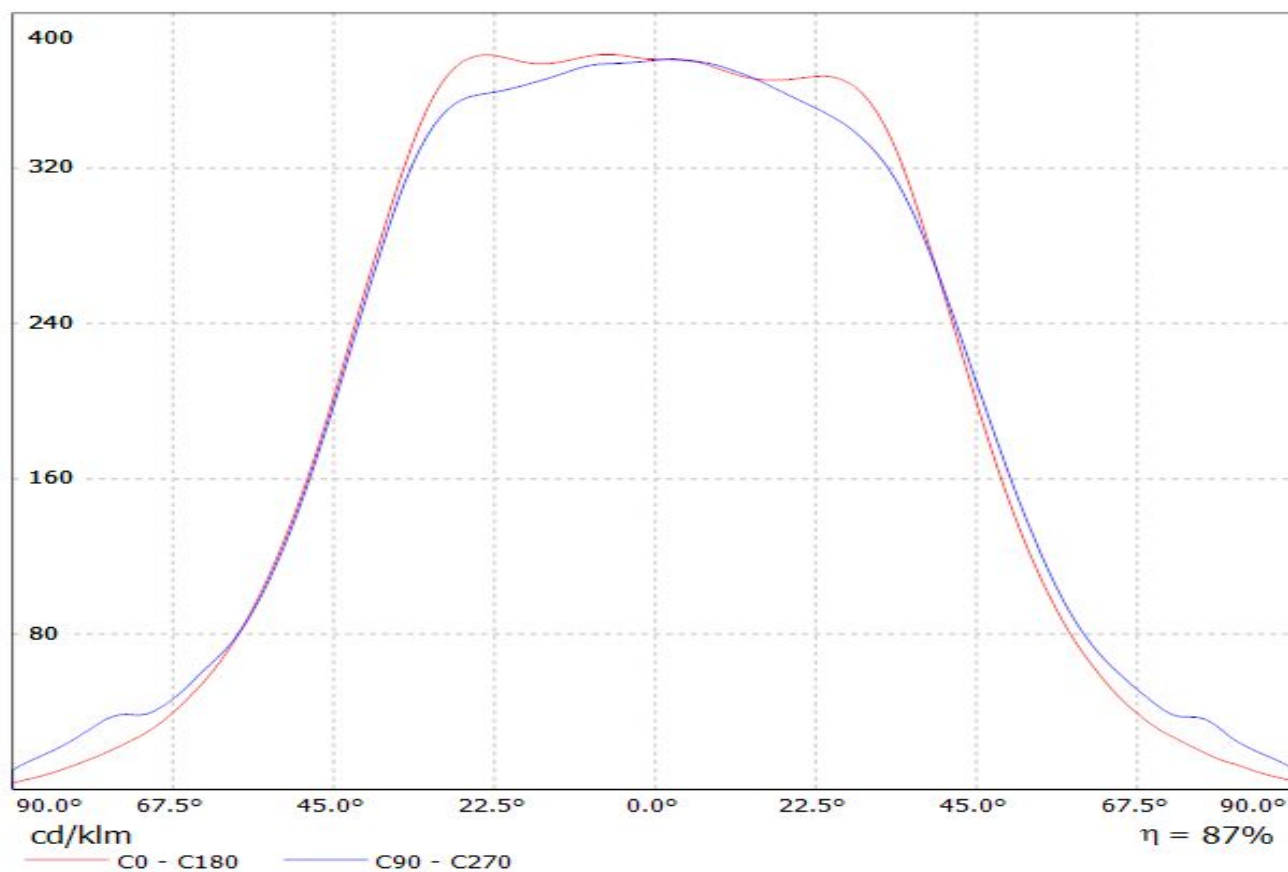


Luminaire: Ledil F13853\_FLORENCE-Z90\_(Duris\_S2)  
Lamps: 1 x Osram\_Duris-S2\_3x11\_(GW\_SBLMA1.EM-GUHQ-XX37-L1N2)  
\_876.783lm@195mA\_CCT=3000K\_P=6.3082W\_I=0.195A



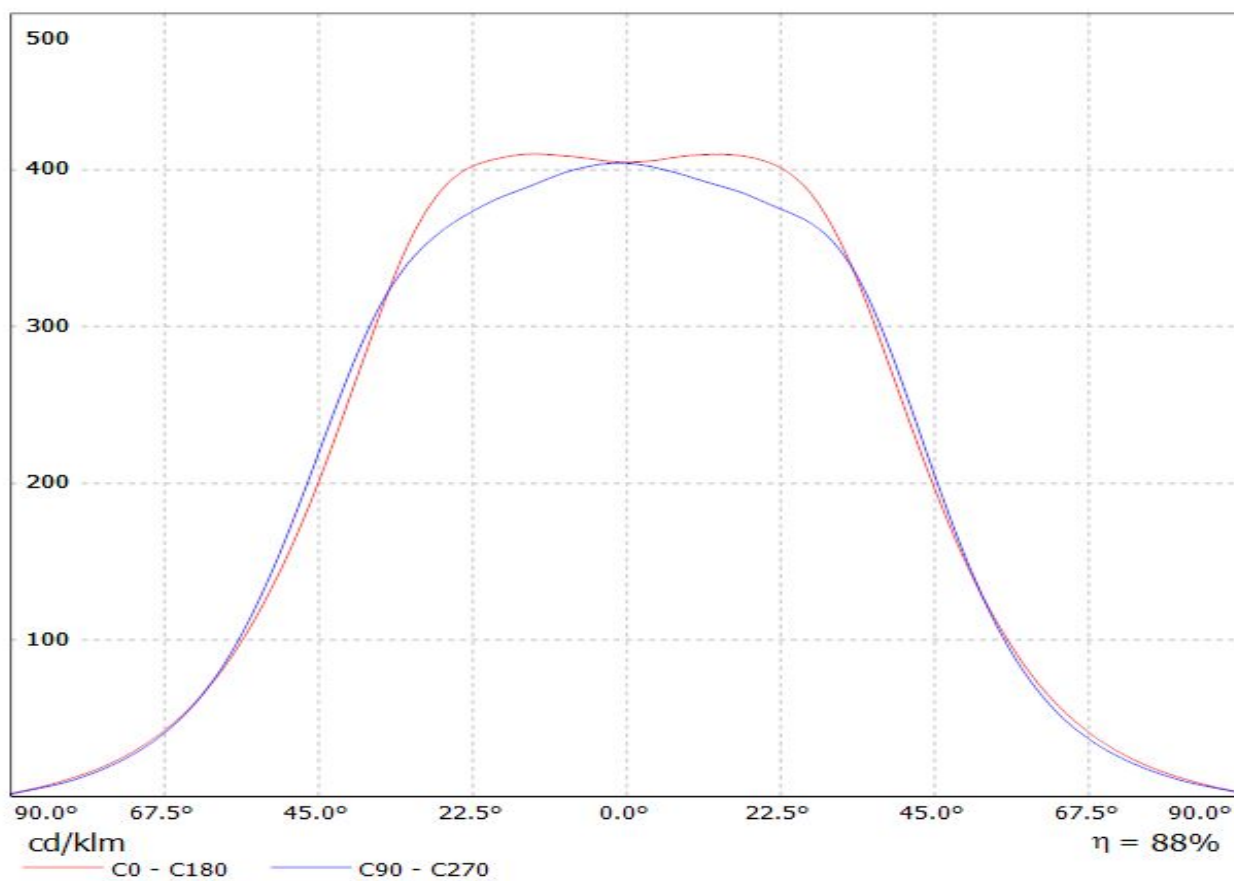
Luminaire: LEDiL Oy F13853\_FLORENCE-Z90

Lamps: 1 x PHILIPS Fortimo LED Line 1ft 650lm 840 3R HV2 1100lm@250mA P=8.41224W I=250.7mA

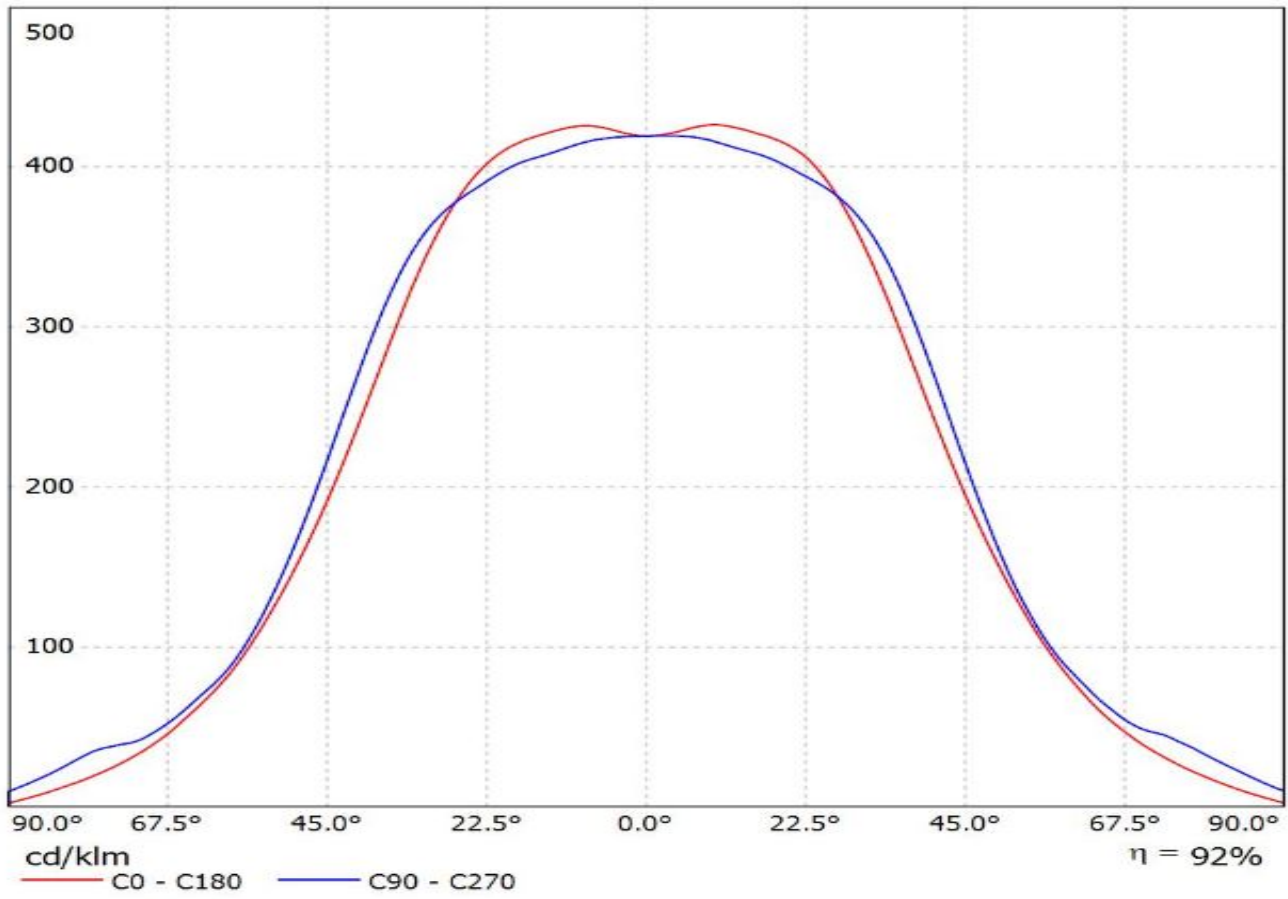


Luminaire: LEDiL Oy F13853\_FLORENCE-Z90 Eff.87.9%

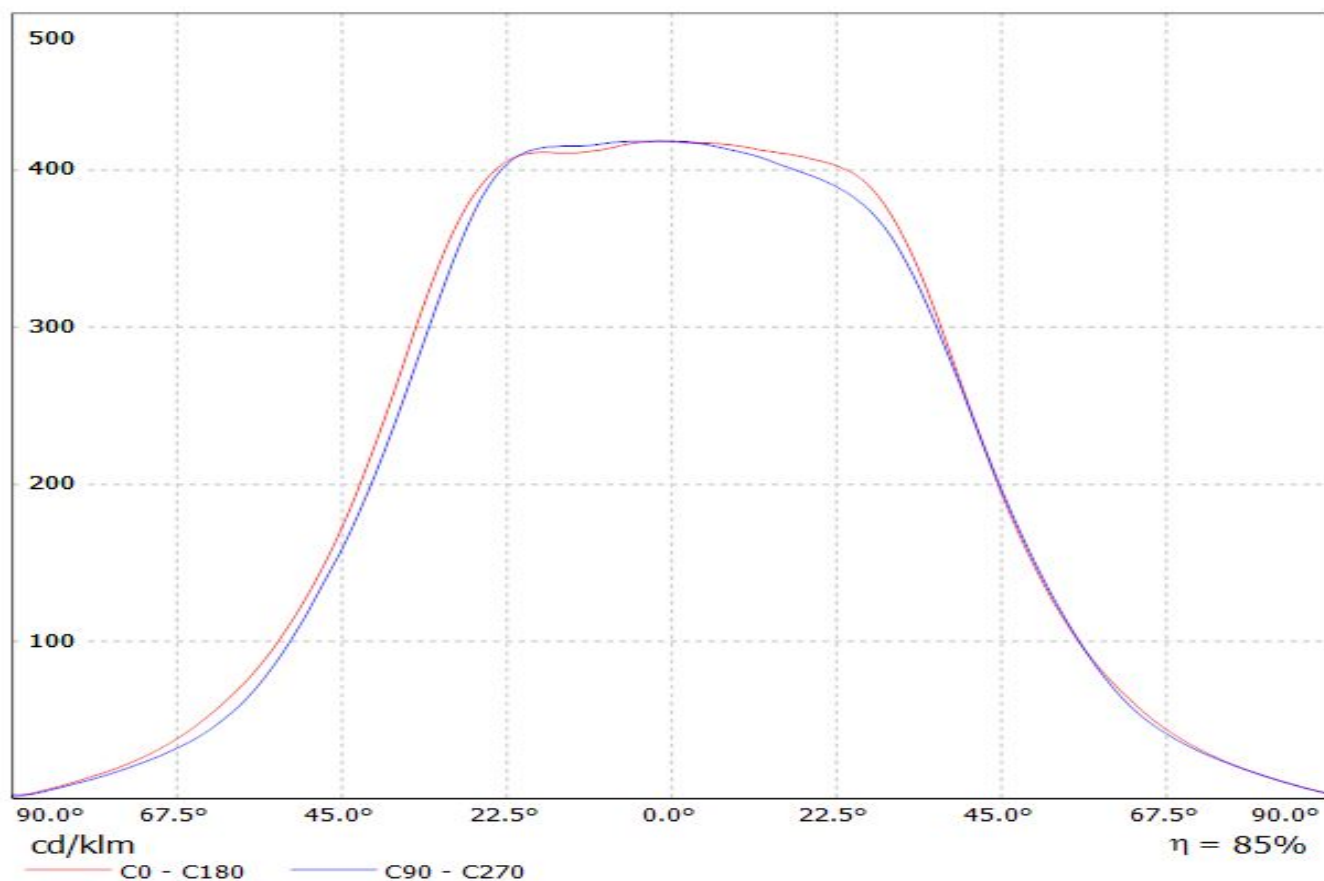
Lamps: 1 x Fortimo\_LED\_Line\_1ft\_1100lm\_3R\_HV2\_1031.47lm@240mA\_CCT=5000K\_P=7.54368W\_I=240mA



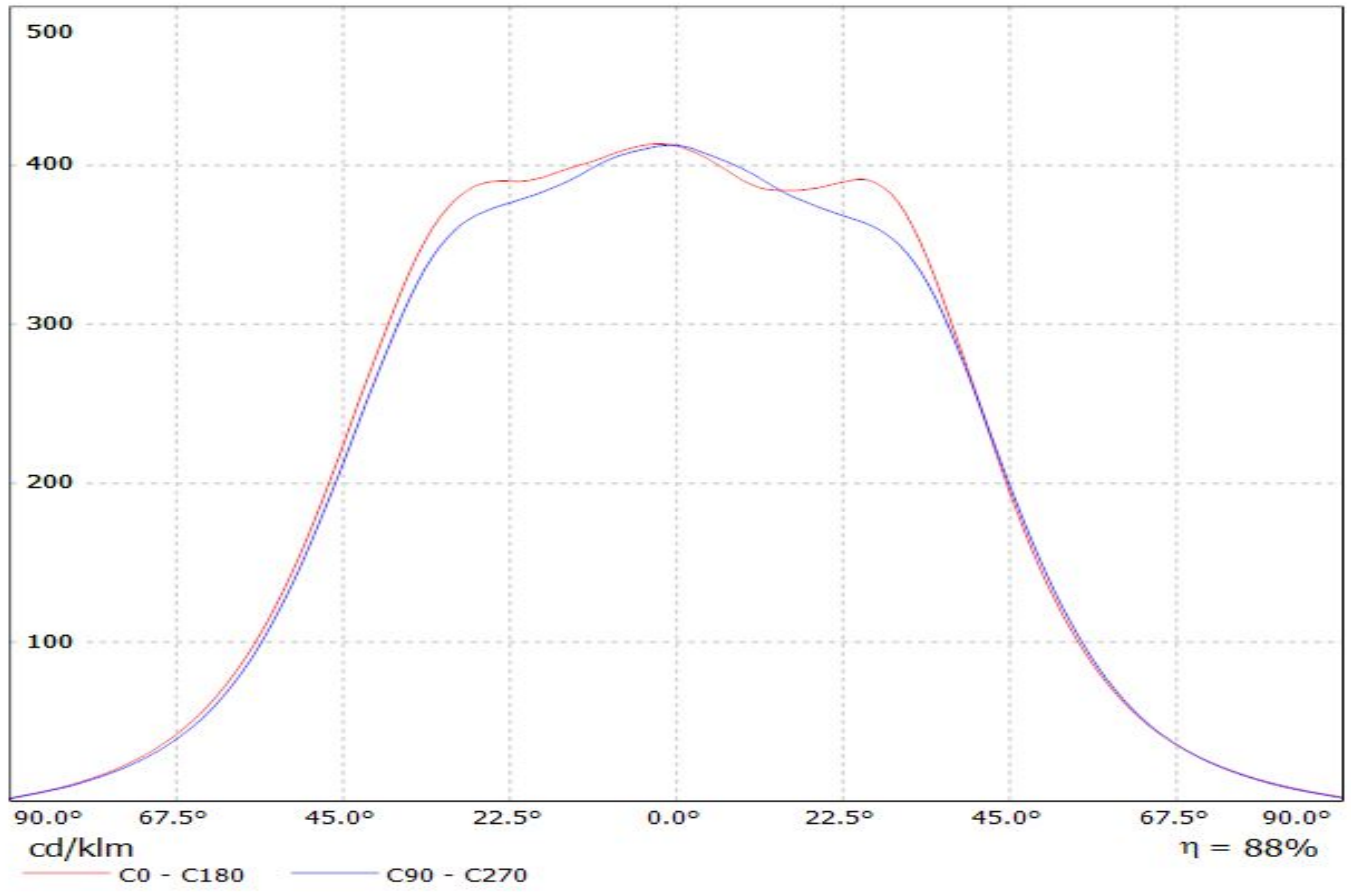
Luminaire: Ledil F13853\_FLORENCE-Z90\_(Fortimo\_LED\_Line\_1ft\_2000lm\_8xx\_3R\_HV2)  
Lamps: 1 x Fortimo\_LED\_Line\_1ft\_2000lm\_8xx\_3R\_HV2\_1229.9lm@250mA\_CCT=3000K\_P=7.5790W\_I=0.25A



Luminaire: LEDiL Oy F13853\_FLORENCE-Z90\_(SAMSUNG\_LM561B)  
Lamps: 1 x SAMSUNG\_LM561B\_679.266lm@150mA\_P=4.6185W\_I=150mA

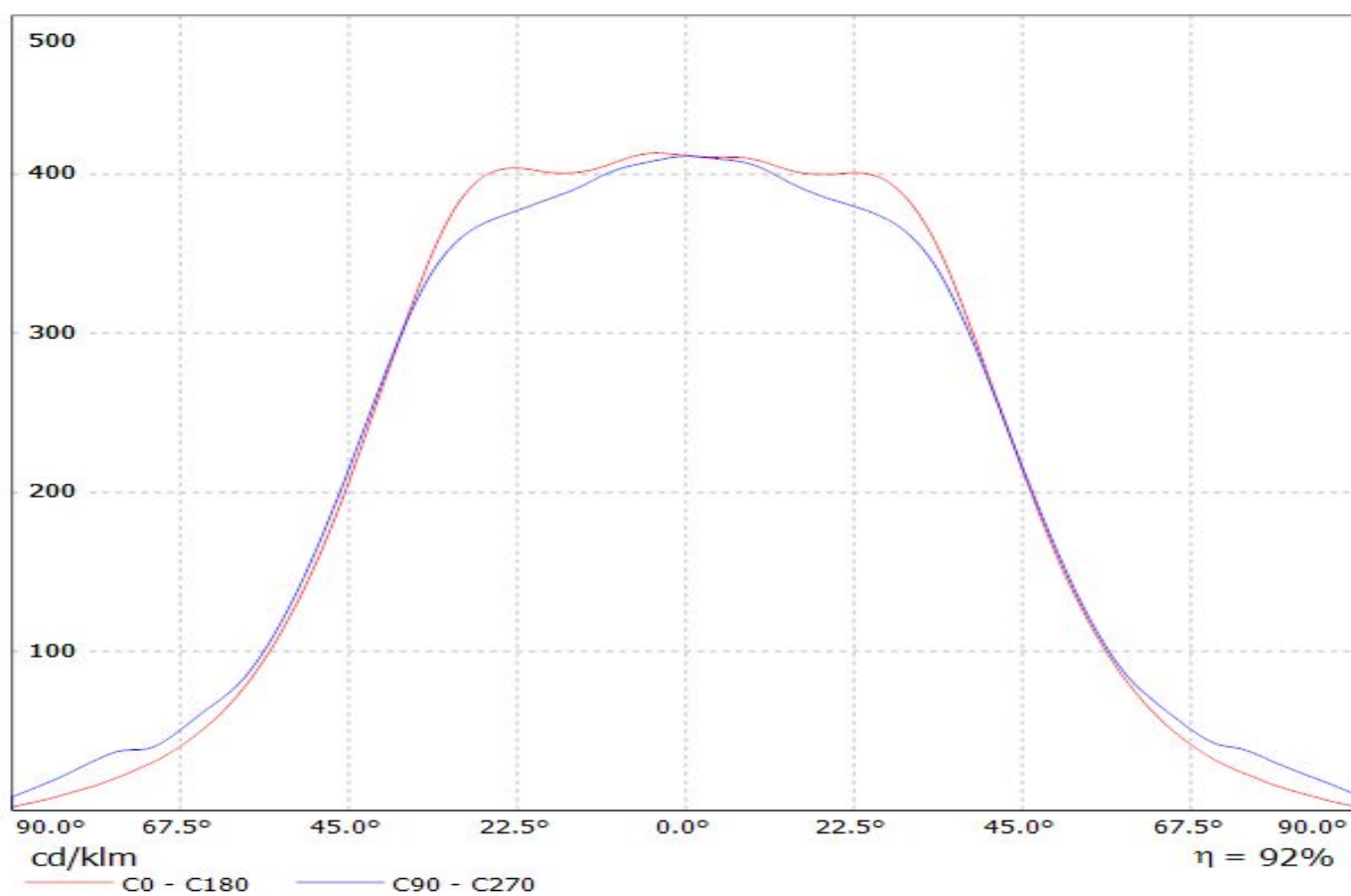


Luminaire: LEDiL Oy F13853\_FLORENCE-Z90\_(LM231B) Eff 87.6%  
Lamps: 1 x SAMSUNG\_LM231B\_571.834lm@150mA\_P=4.62435W\_I=150mA

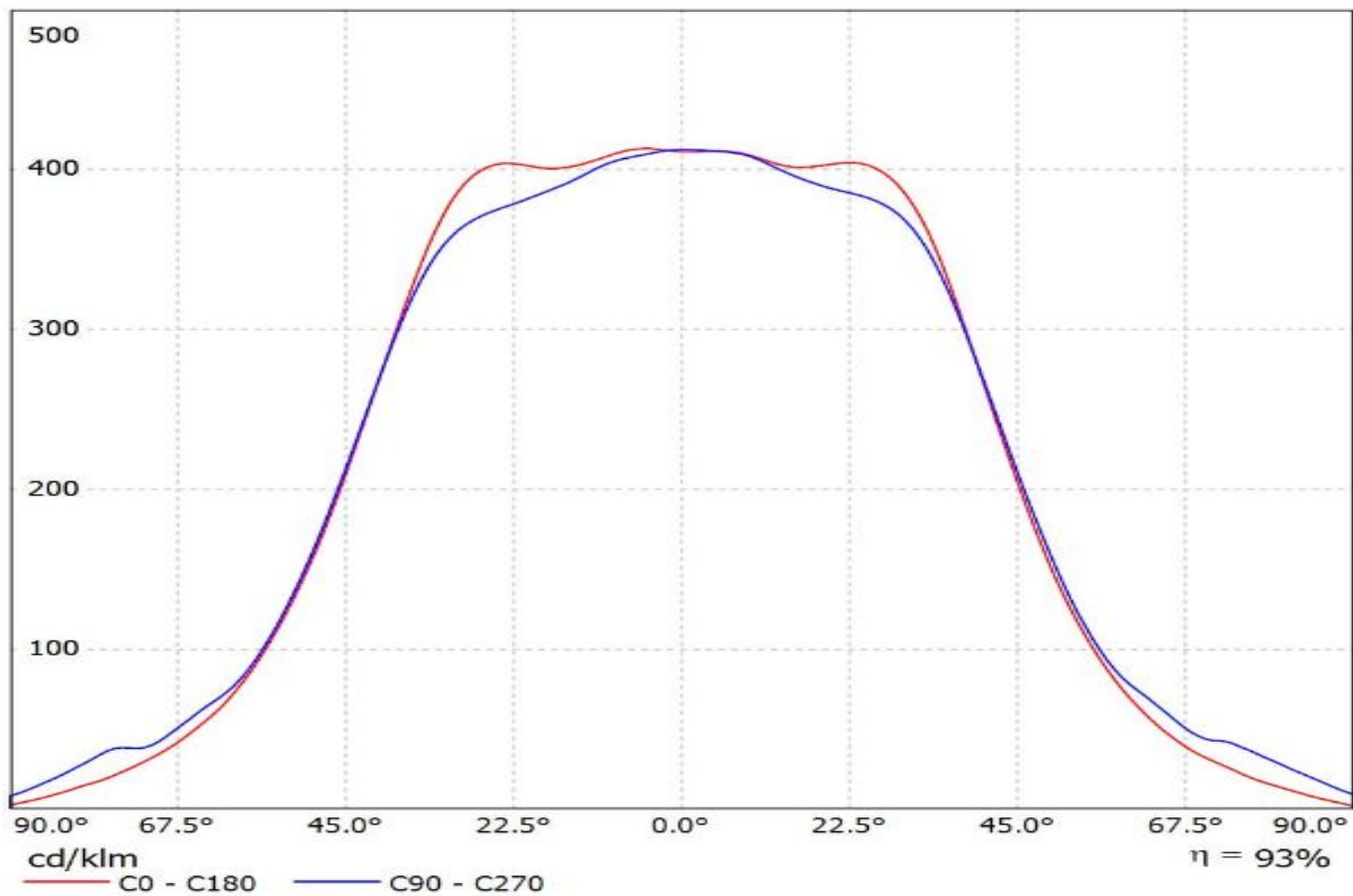




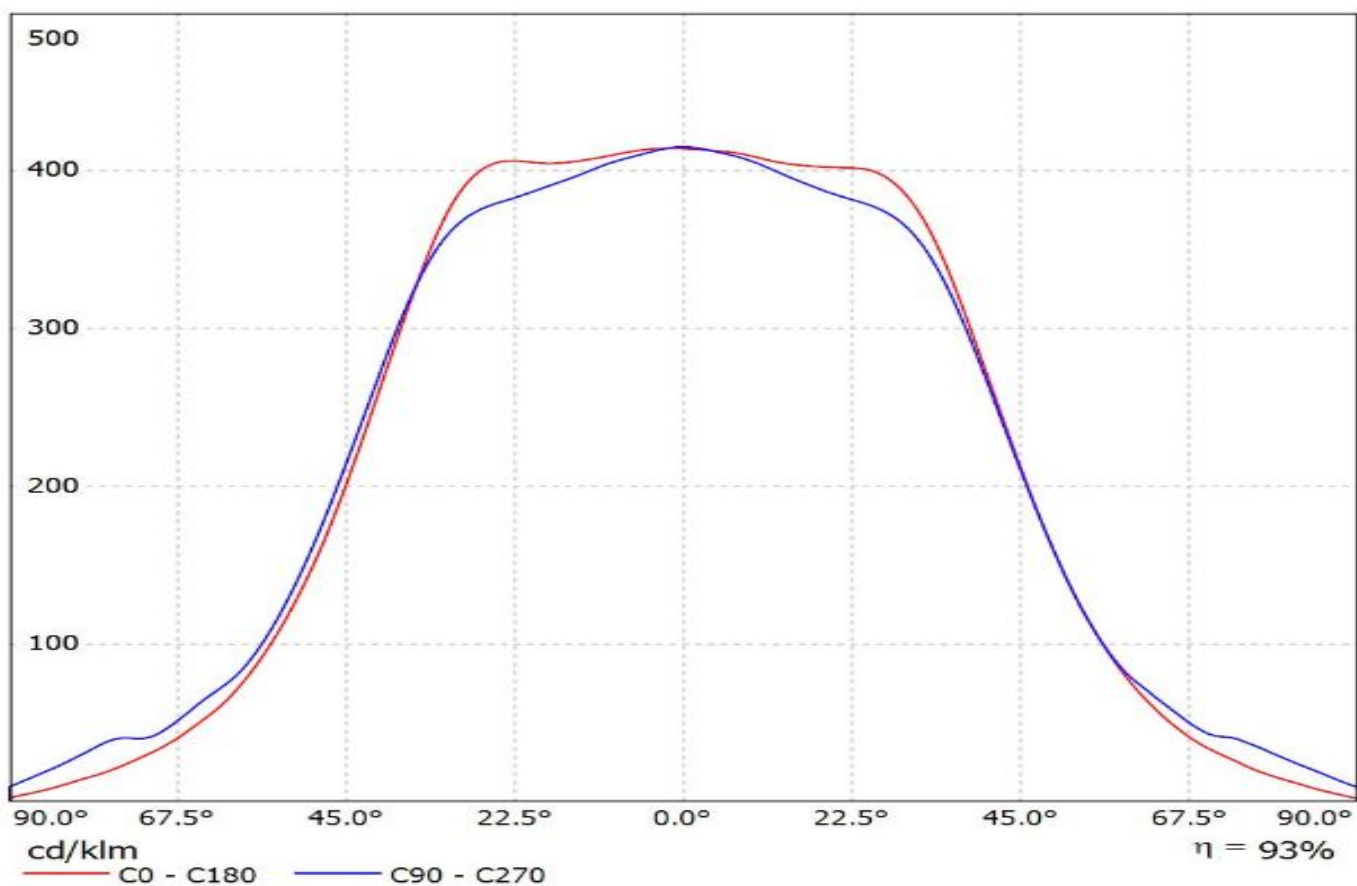
Luminaire: LEDiL Oy F13853\_FLORENCE-Z90\_(LT-R286A)  
Lamps: 1 x Samsung\_LT-R286A\_1304.7lm@250mA\_P=8.2181W\_I=0.250A



Luminaire: Ledil F13853\_FLORENCE-Z90\_(LM561B PLUS)  
Lamps: 1 x Samsung LM561B PLUS 1366.12lm@250mA\_P=8.071W\_I=0.25A

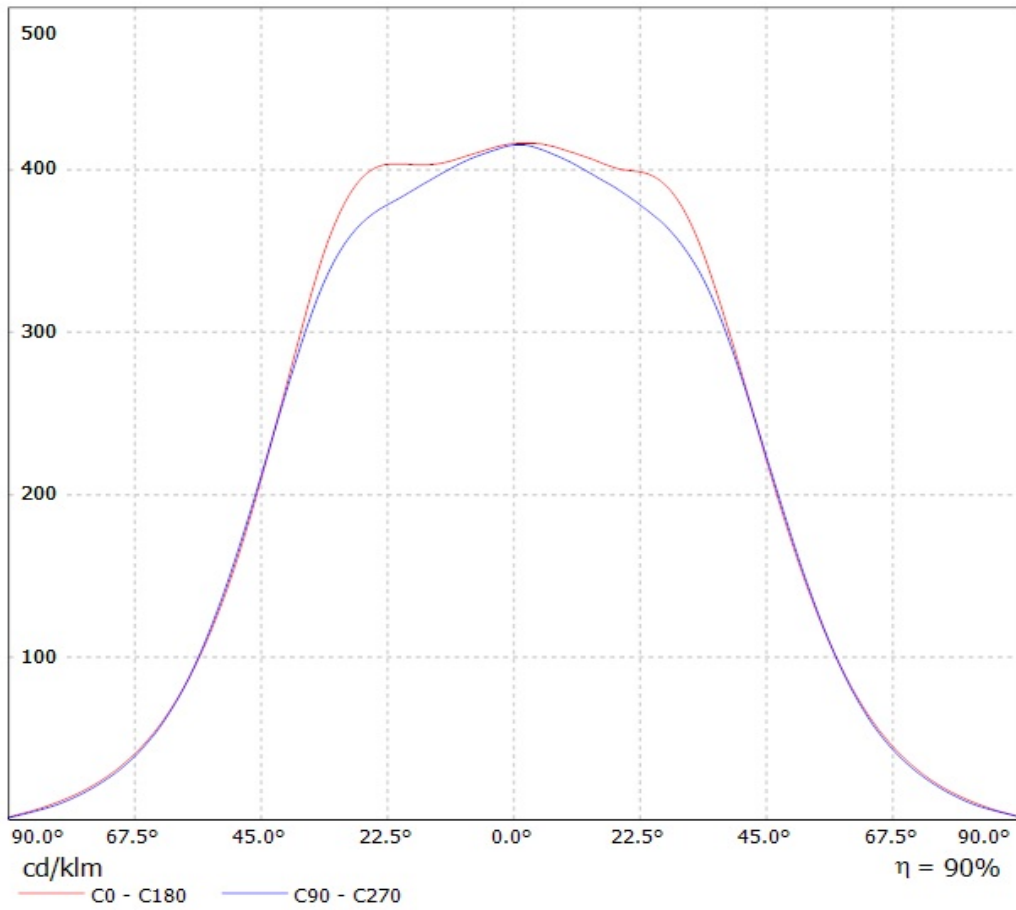


Luminaire: Ledil F13853\_FLORENCE-Z90\_(LM561C)  
Lamps: 1 x SAMSUNG LM561C 1407.48lm@250mA\_P=7.7190W\_I=0.25A

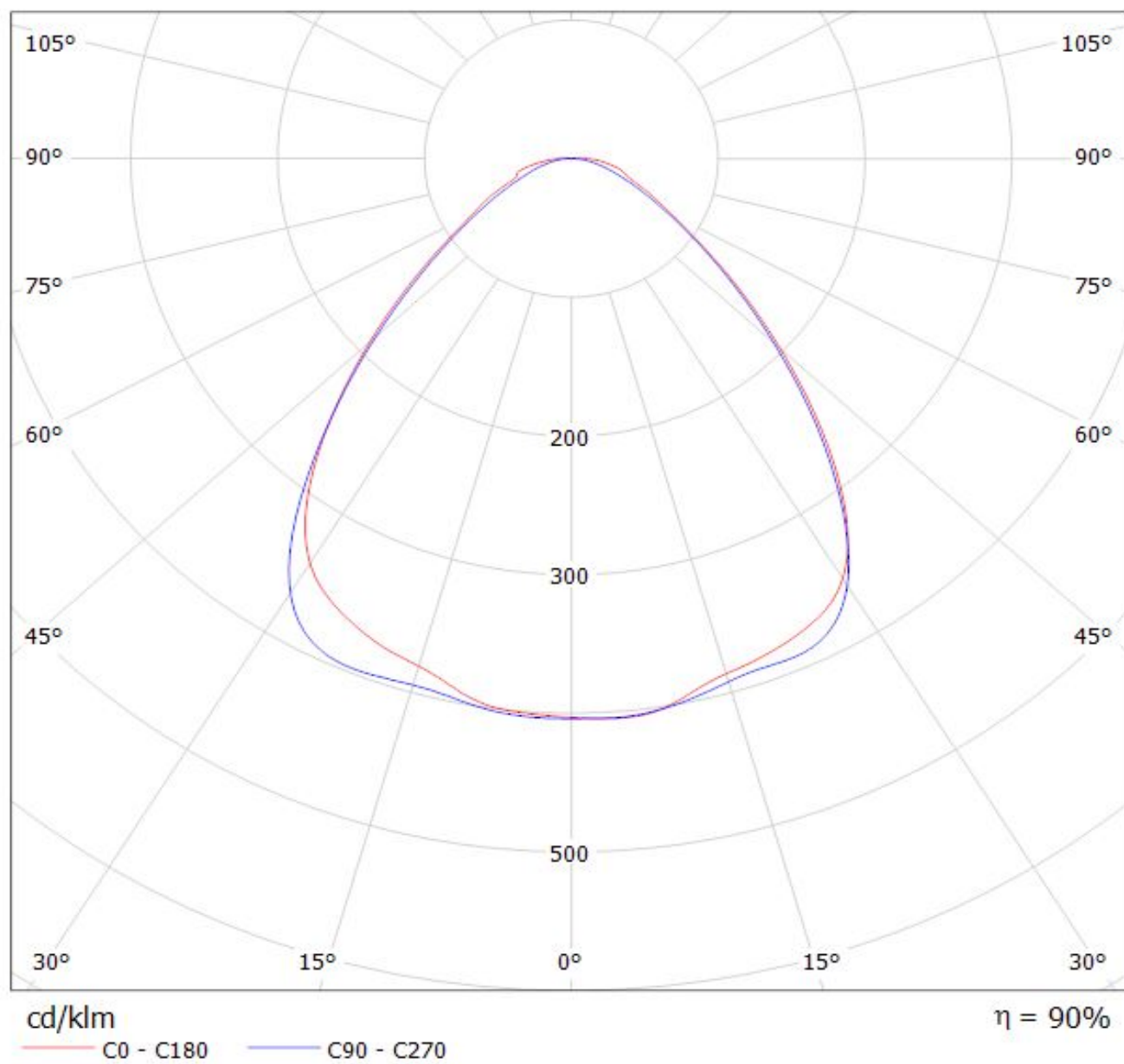


Luminaire: LEDiL Oy F13853\_FLORENCE-Z90\_(LLE-55-280-1650)

Lamps: 1 x Tridonic\_STARK\_LLE-55-280-1650\_(STARK\_LLE-55-280-1650-840-CLA)\_1478.34lm@325lm\_CCT=4000K\_P=10.1908W\_I=324.9mA

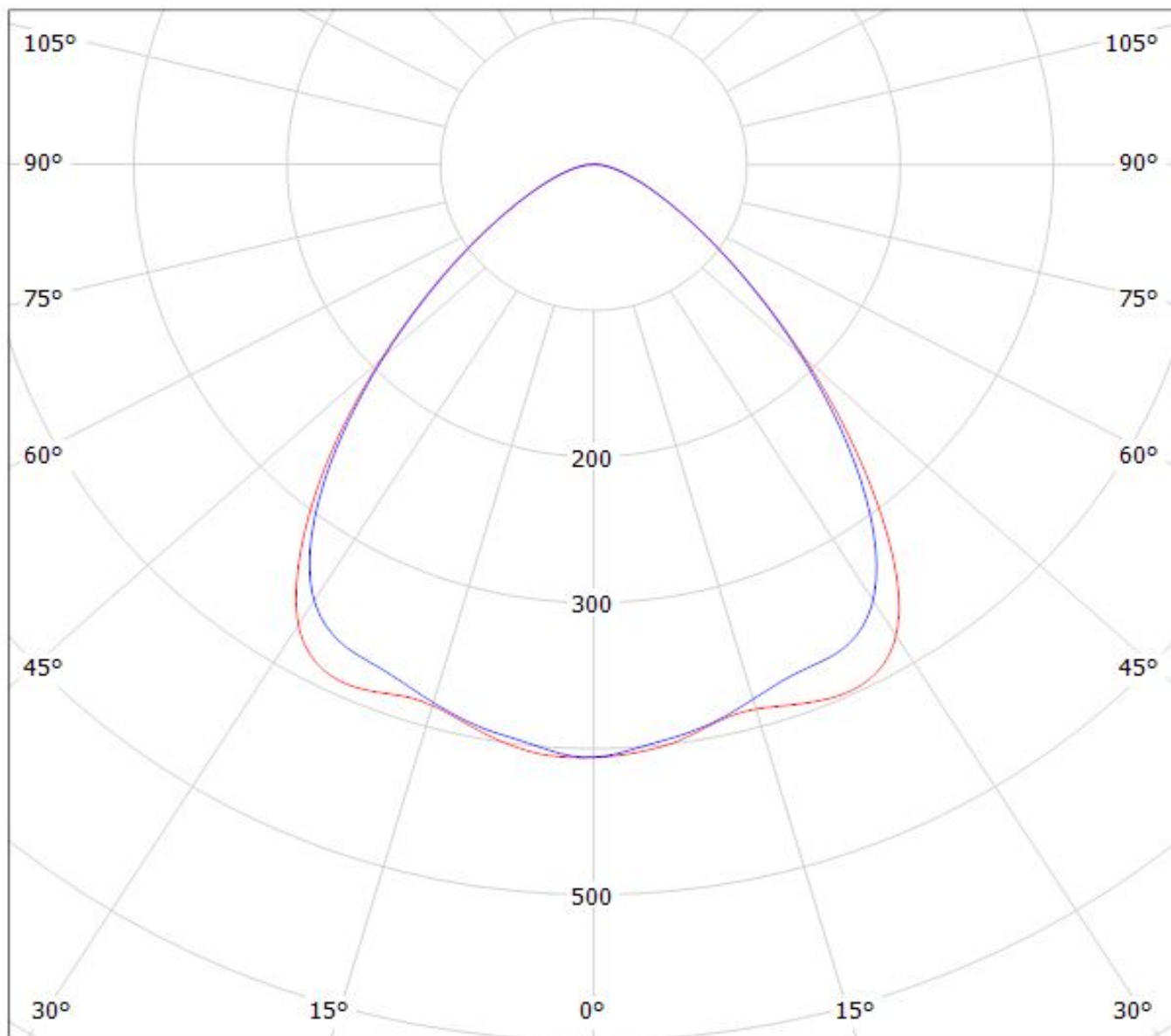


Luminaire: LEDiL Oy F13853\_FLORENCE-Z90\_(AVAGO 5630 0.5W)  
Lamps: 1 x AVAGO ASMU-LWG0-NxxxE 1677.82lm@420mA 34.8V



Luminaire: LEDiL Oy F13853\_FLORENCE-Z90\_(TRIDINO-R3)\_GS

Lamps: 1 x Comet\_Electronic sin\_TRIDINO-R3-8x0-1100-1ft-HV\_1299.6lm@250mA\_P=8.07304W\_I=0.250A



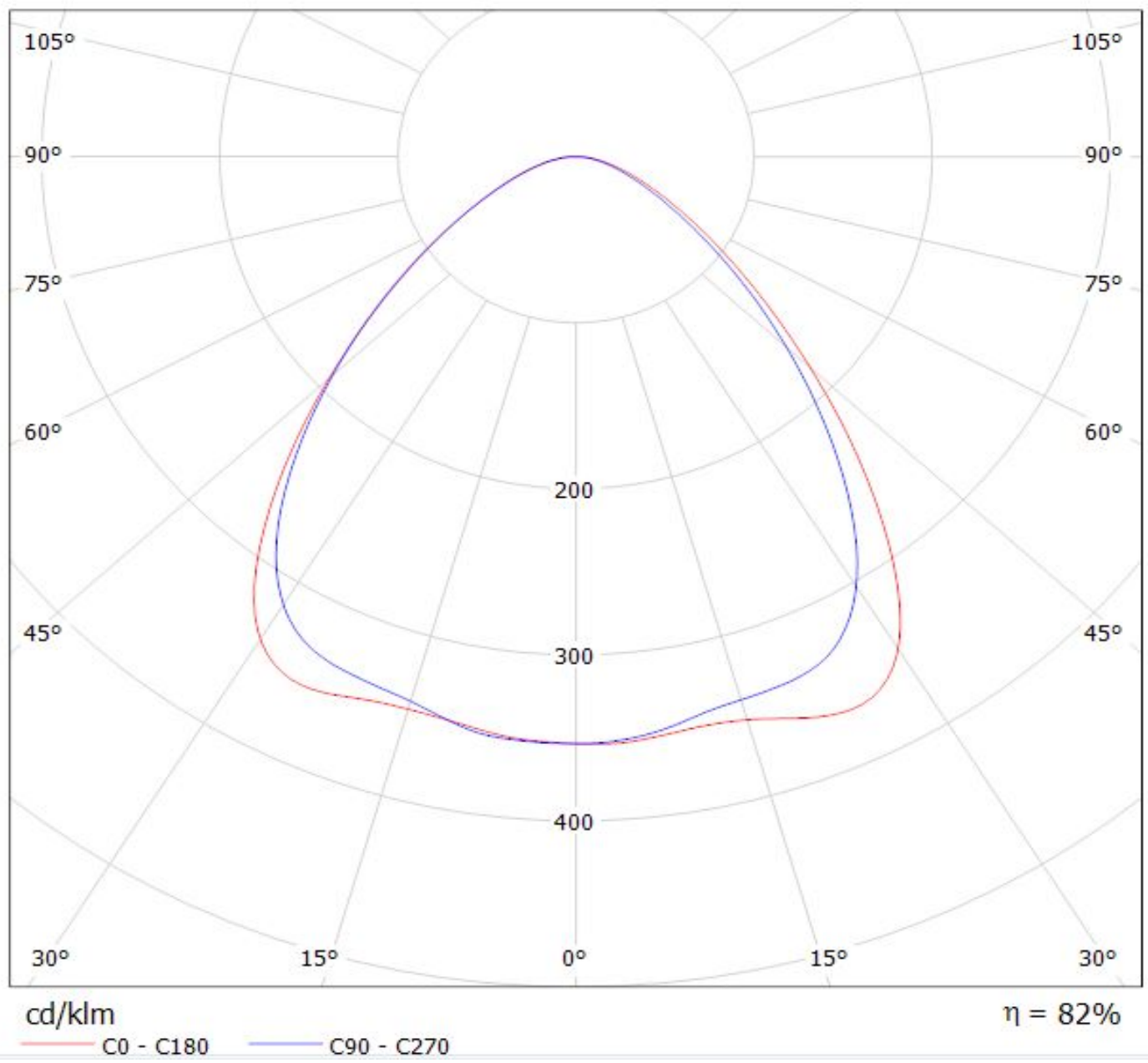
cd/klm

— C0 - C180

— C90 - C270

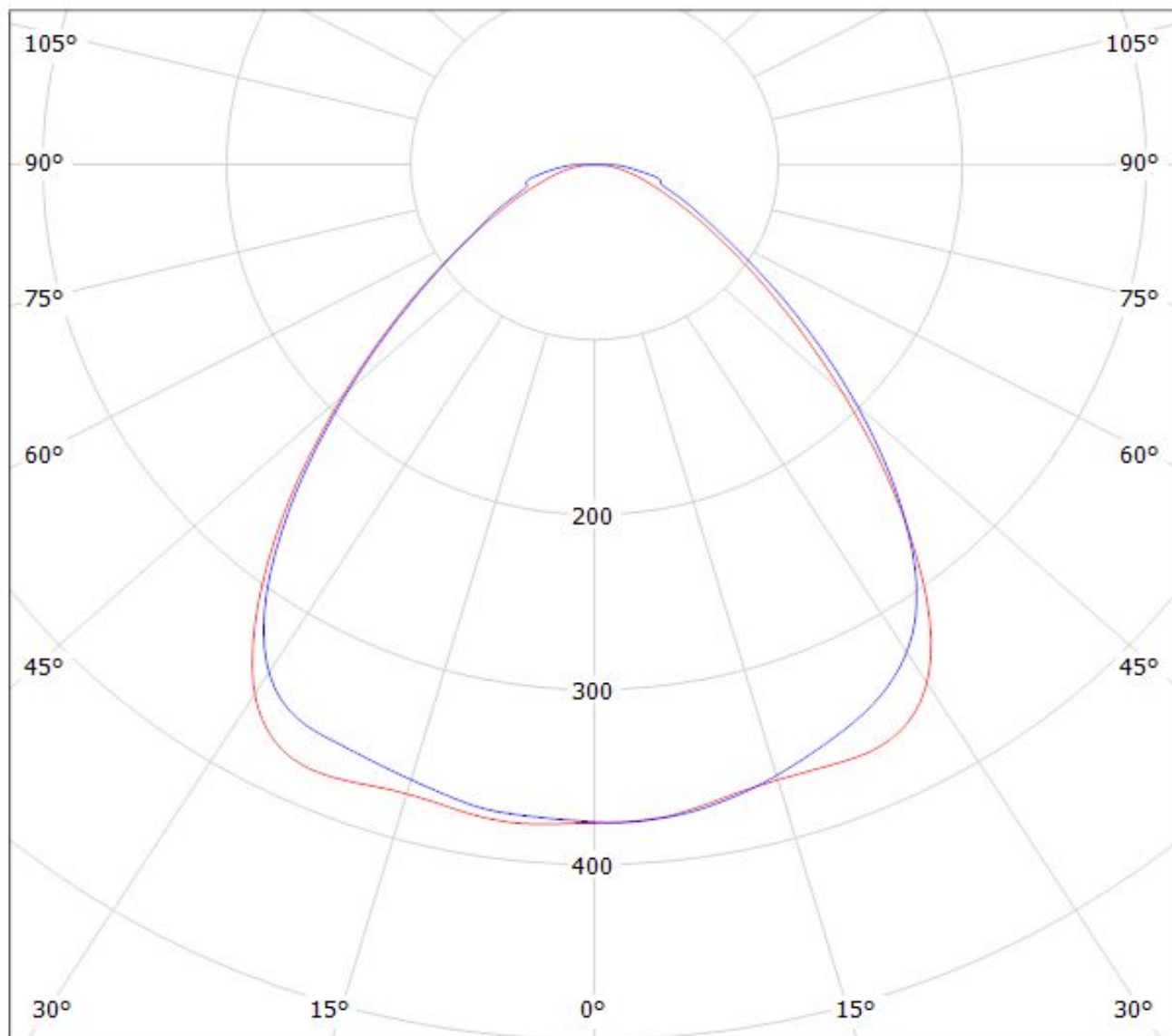
$\eta = 87\%$

Luminaire: LEDiL Oy F13853\_FLORENCE-Z90\_(XH-B) EFF\_81.8%  
Lamps: 1 x CREE\_XH-B\_(XHGAWT-0-7B4-J30-0H-0001)  
\_1060.84lm@250mA\_CCT=5000K\_P=8W\_I=249.8mA



Luminaire: LEDiL Oy F13853\_FLORENCE-Z90 (LG5630)

Lamps: 1 x FLORENCE\_FORTIMO\_(LG\_5630)\_1100lm@250mA P=8.41224W I=250.7mA



cd/klm

$\eta = 87\%$

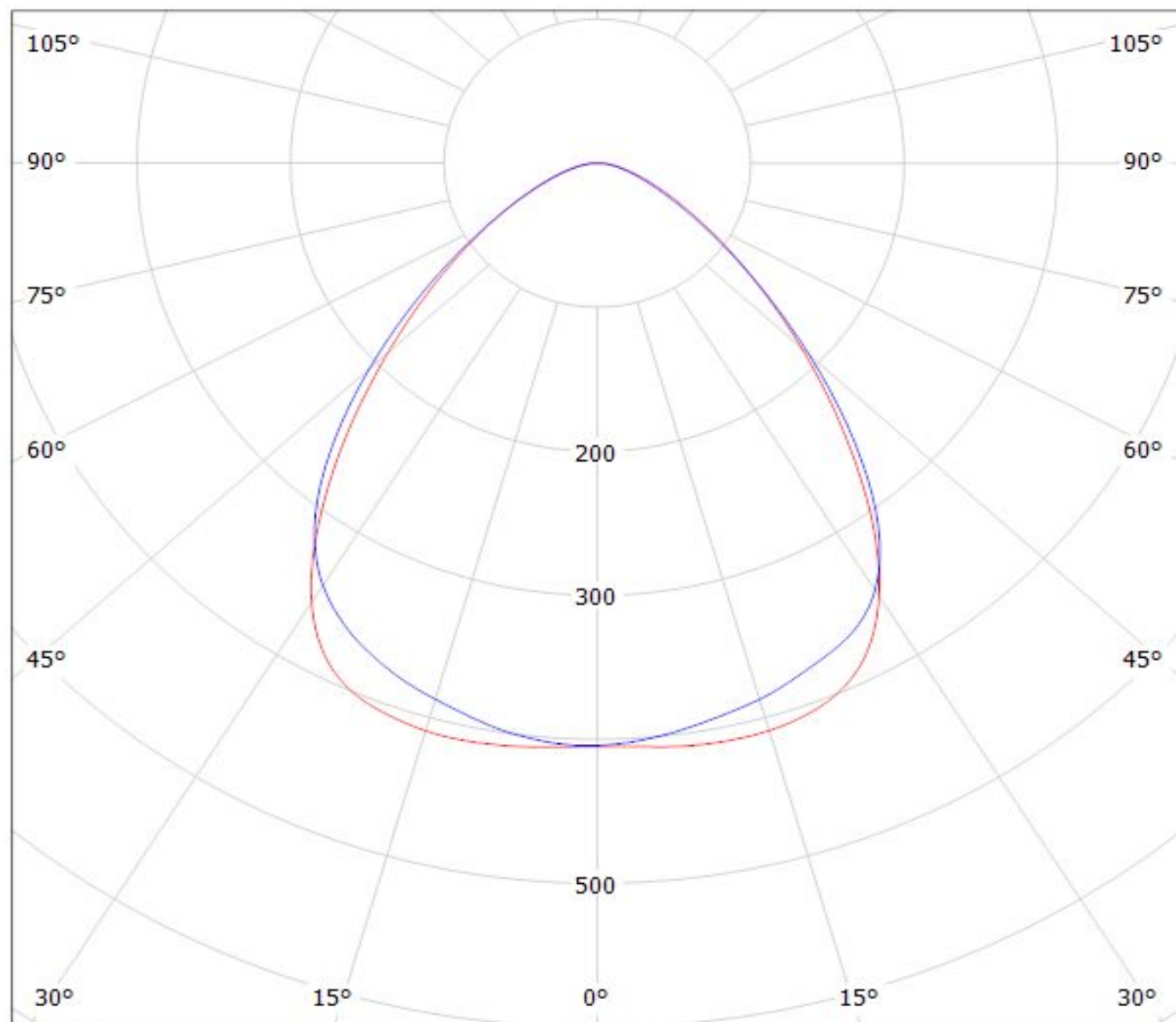
— C0 - C180

— C90 - C270



Luminaire: LEDiL Oy F13853\_FLORENCE-Z90\_LG\_6030) Eff.87.9%

Lamps: 1 x LG\_6030\_(LEWMS68T80HZ)\_1031.47lm@240mA\_CCT=5000K\_P=7.54368W\_I=240mA

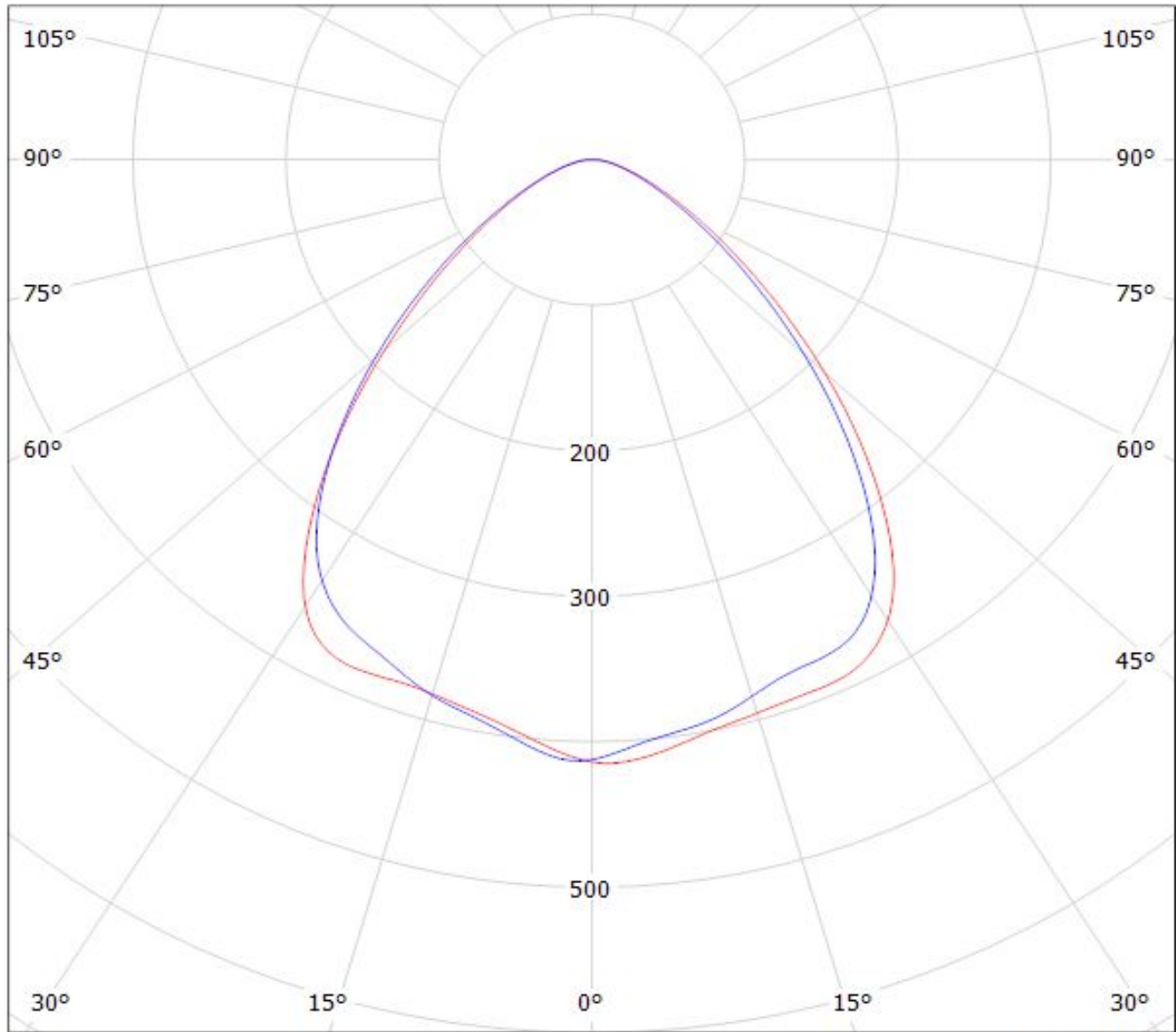


cd/klm

— C0 - C180 — C90 - C270

$\eta = 88\%$

Luminaire: LEDiL Oy F13853\_FLORENCE-Z90\_(LUXEON\_3535\_2D) Eff.87.5%  
Lamps: 1 x LUXEON\_3535\_2D\_1513.88lm@200mA\_P=12.7114W\_I=199.9mA



cd/klm

— C0 - C180    — C90 - C270

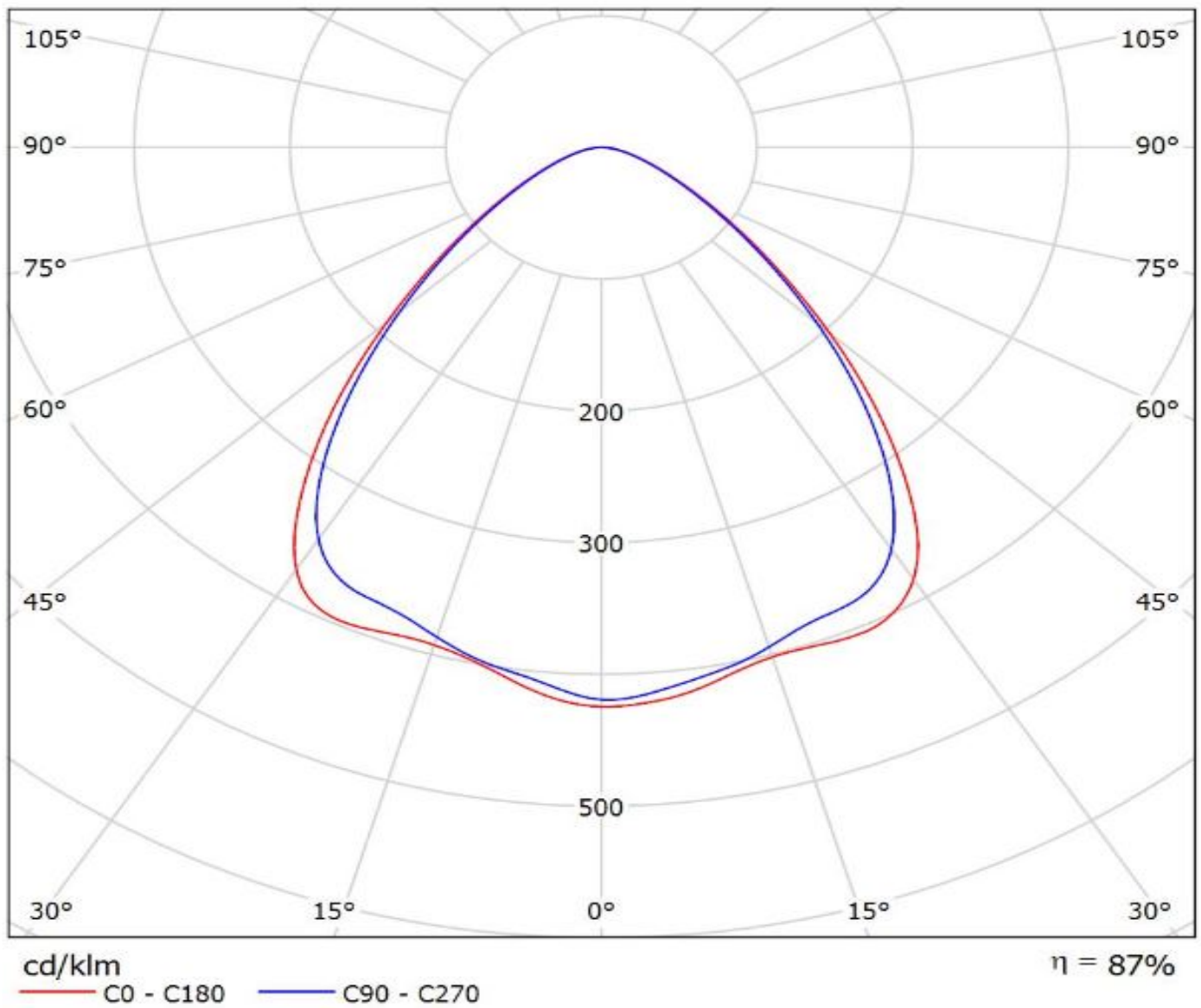
$\eta = 87\%$

# Ledil F13853\_FLORENCE-Z90\_(Luxeon\_3030\_2D) / LDC (Polar)

Luminaire: Ledil F13853\_FLORENCE-Z90\_(Luxeon\_3030\_2D)

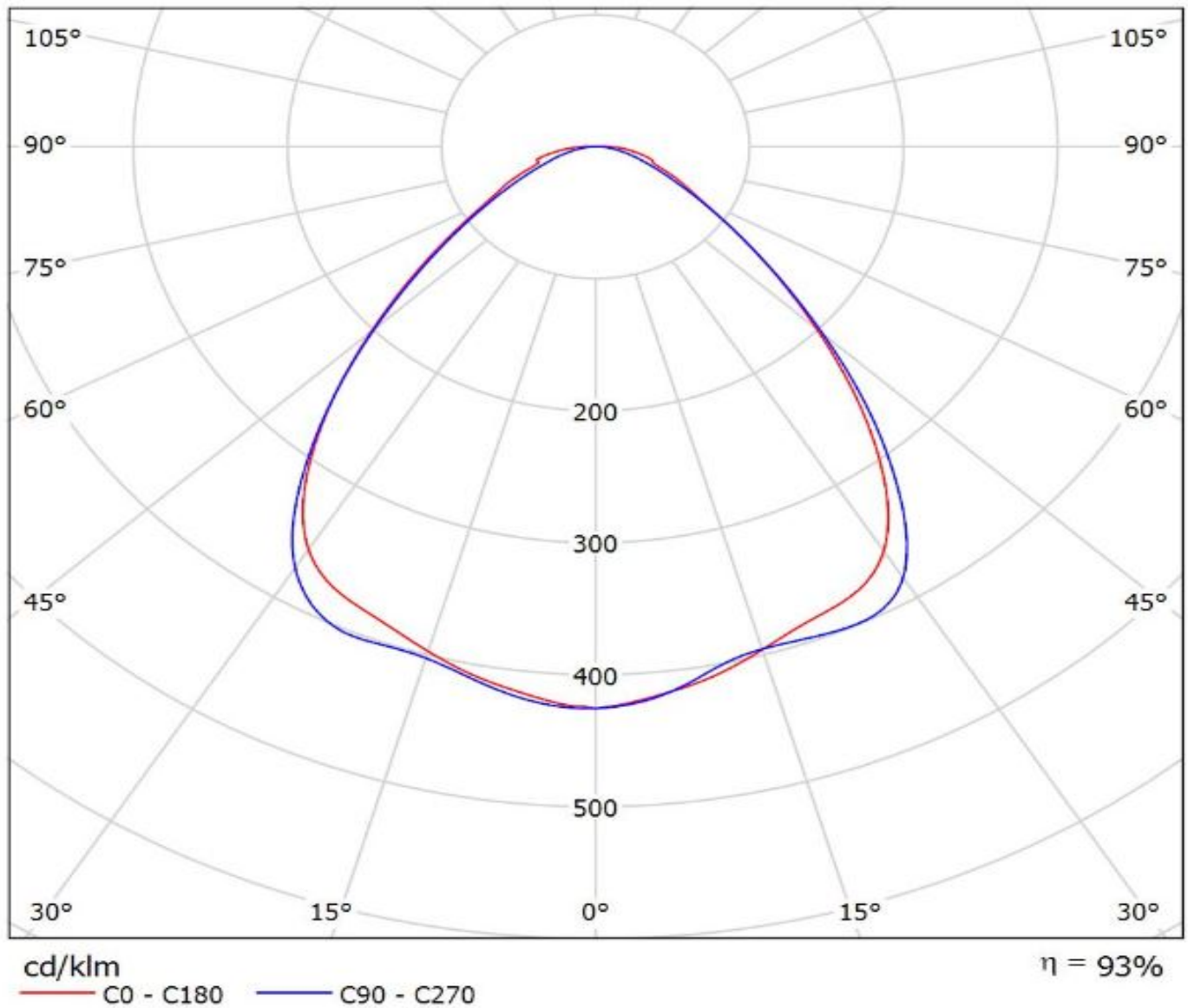
Lamps: 1 x Luxeon\_3030\_2D\_3x11\_(L130-4080003000W21)

\_2150lm@300mA\_CCT=4000K\_P=12.8W\_I=0.3A

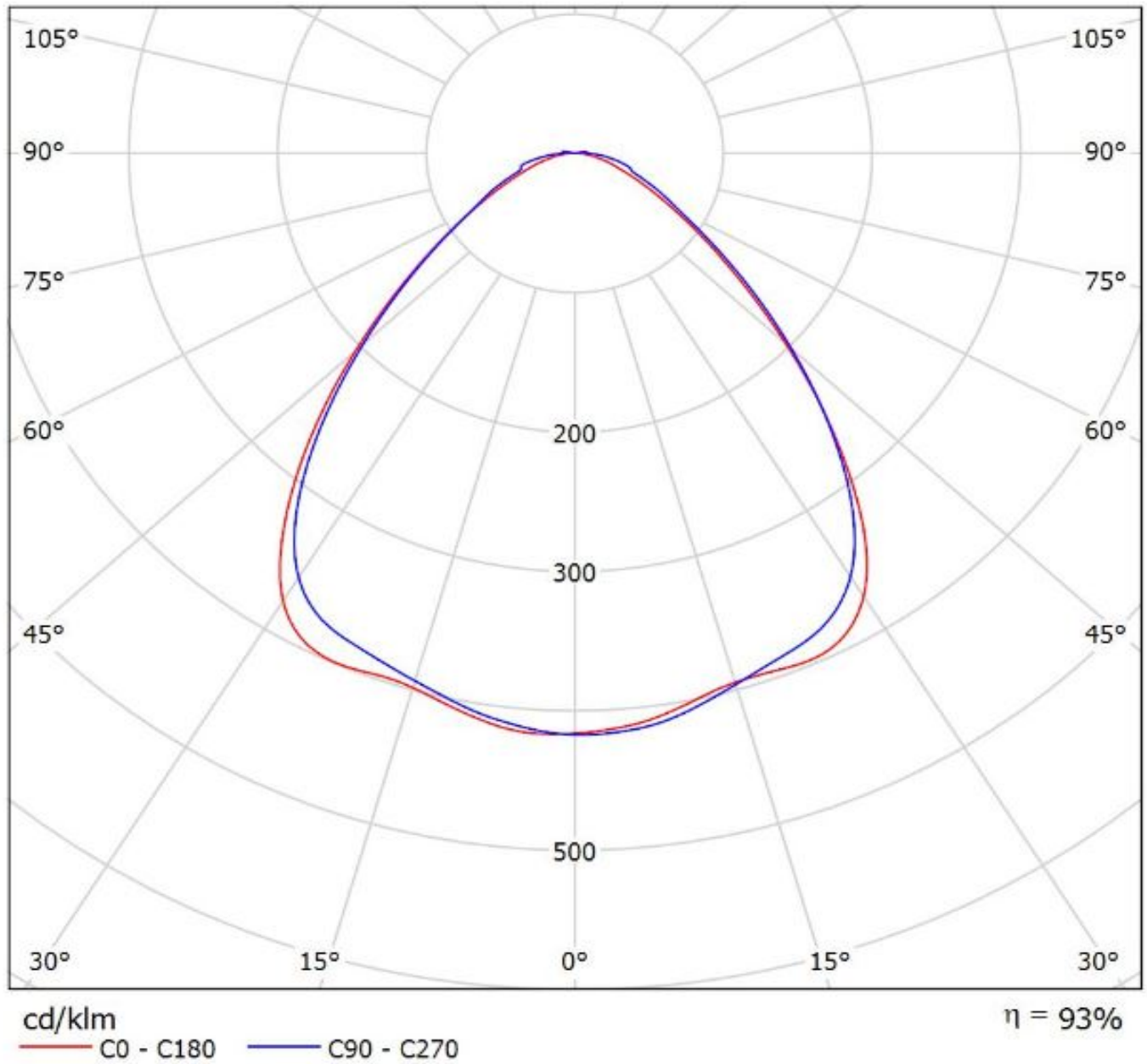


# Ledil F13853\_FLORENCE-Z90\_(Luxeon\_XR-3535L) / LDC (Polar)

Luminaire: Ledil F13853\_FLORENCE-Z90\_(Luxeon\_XR-3535L)  
Lamps: 1 x Lumileds\_Luxeon\_XR-3535L\_3x11\_(L202-3080033C30001)  
\_1087.37lm@250mA\_CCT=3000K\_P=8.15W\_I=0.25A



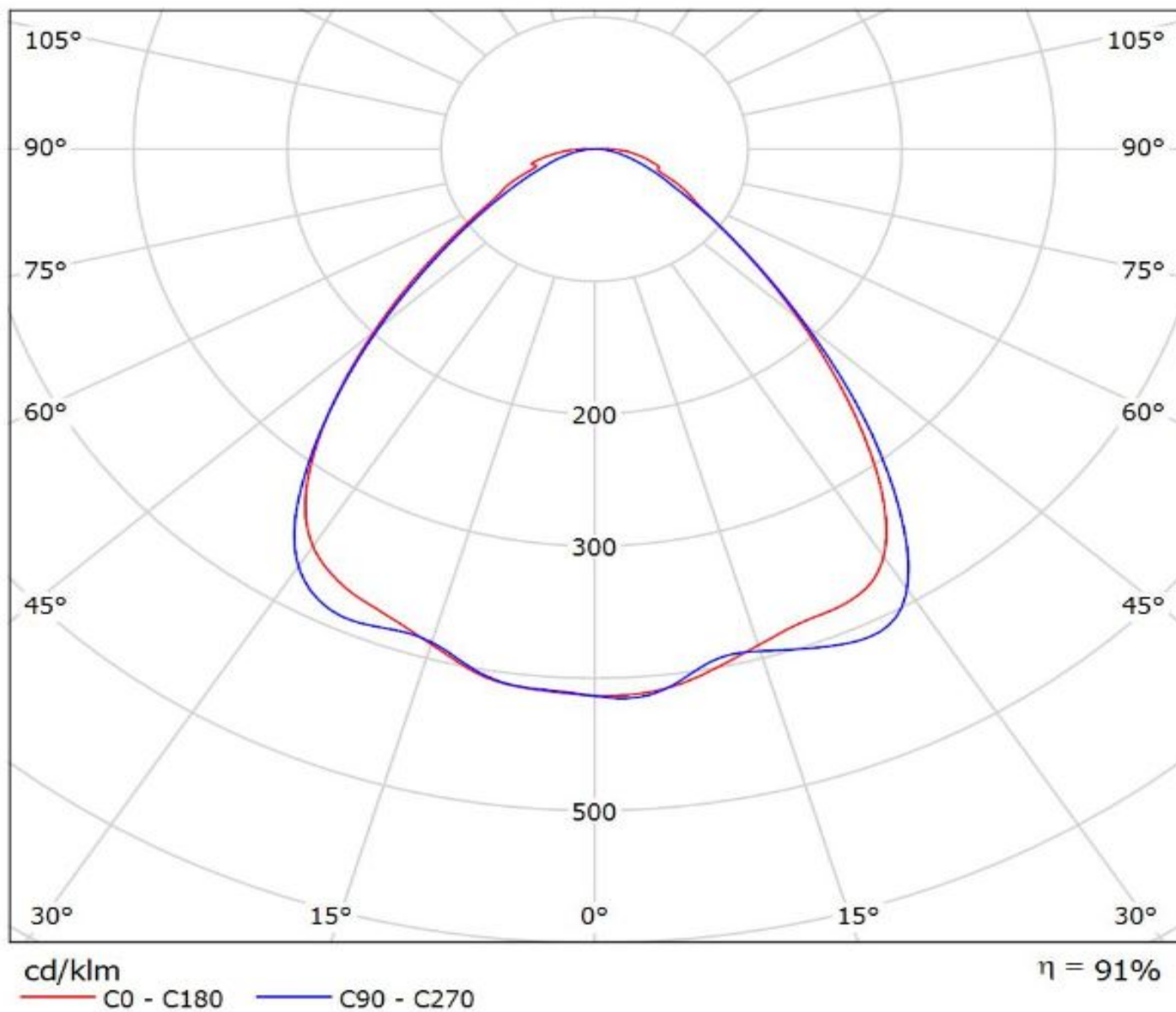
Luminaire: Ledil F13853\_FLORENCE-Z90\_(Luxeon 3535L HE)  
Lamps: 1 x Luxeon 3535L HE 1290.2lm@250mA\_P=7.7240W\_I=0.25A



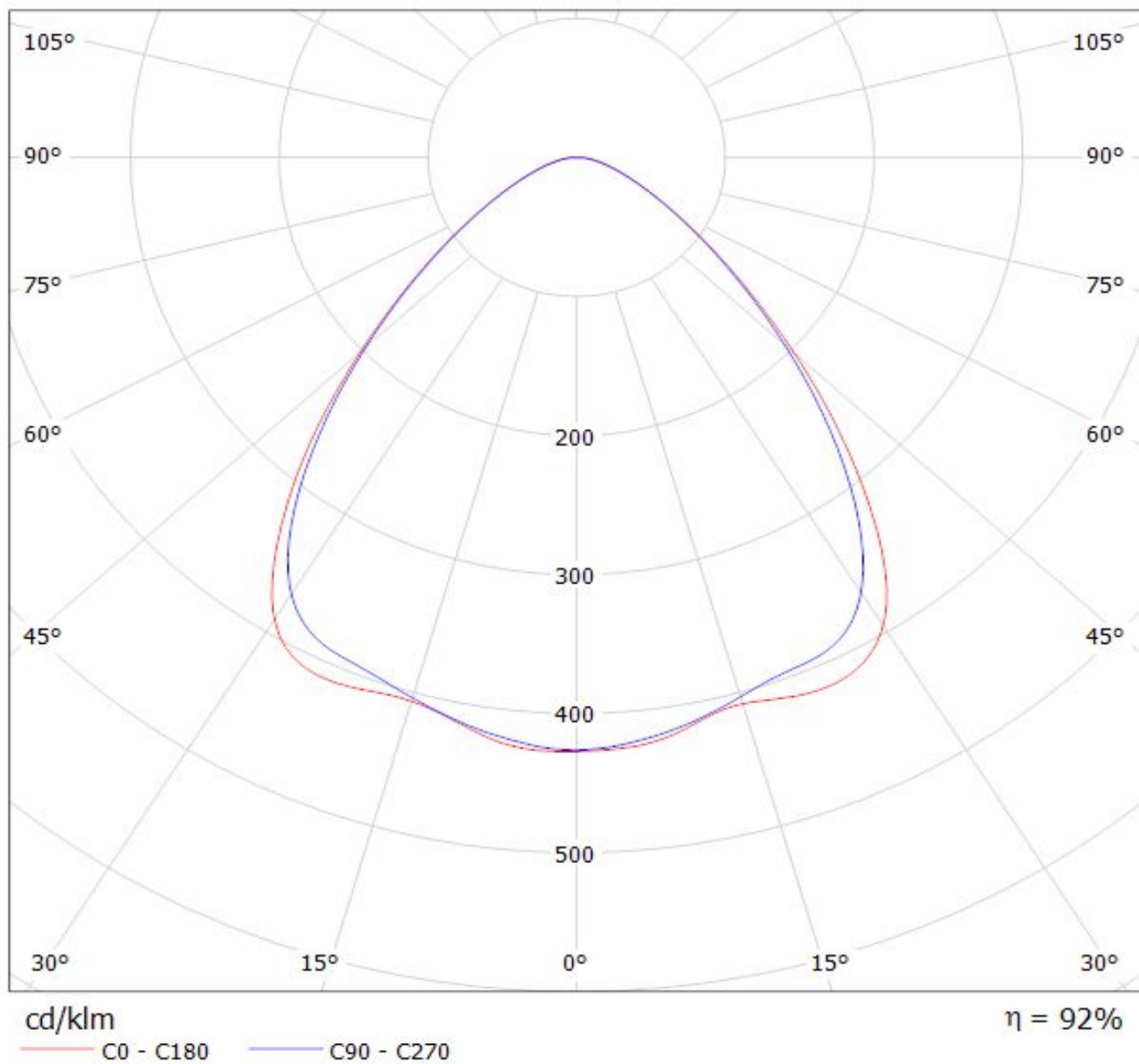
# Ledil F13853\_FLORENCE-Z90\_(MP-2016) / LDC (Polar)

Luminaire: Ledil F13853\_FLORENCE-Z90\_(MP-2016)

Lamps: 1 x Luminus\_MP-2016\_x22\_(LUMMP-1100-30-80)\_715.864lm@180mA\_P=6W\_I=0.18A

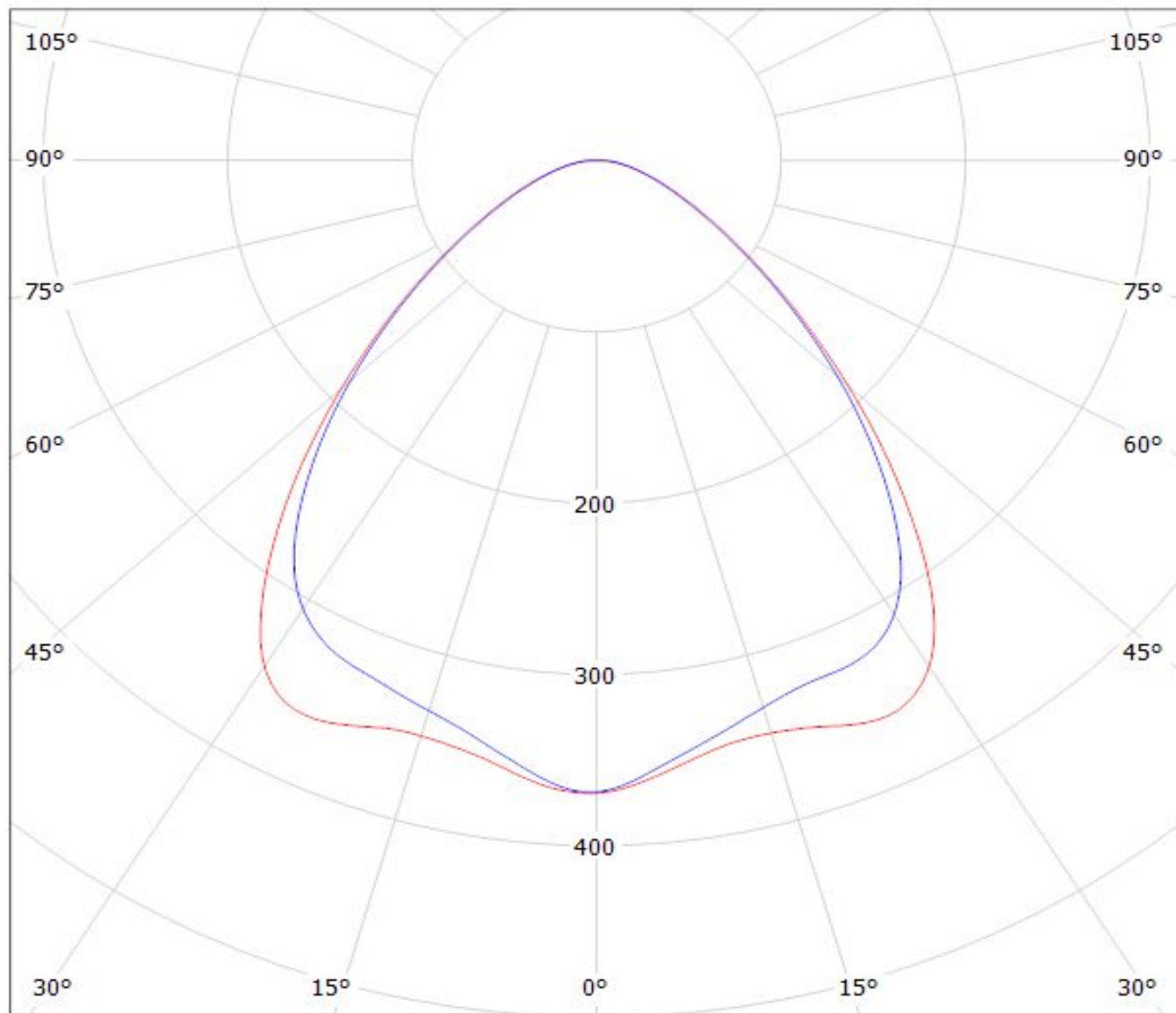


Luminaire: LEDiL Oy F13853\_FLORENCE-Z90\_(NICHIA757)  
Lamps: 1 x NICHIA757 (NT2W757DRT) 1387lm@150mA



Luminaire: LEDiL Oy F13853\_FLORENCE-Z90\_(DURIS\_P5)

Lamps: 1 x OSRAM\_DURIS\_P5\_747.995lm@250mA\_P=7.78777W\_I=249.8mA



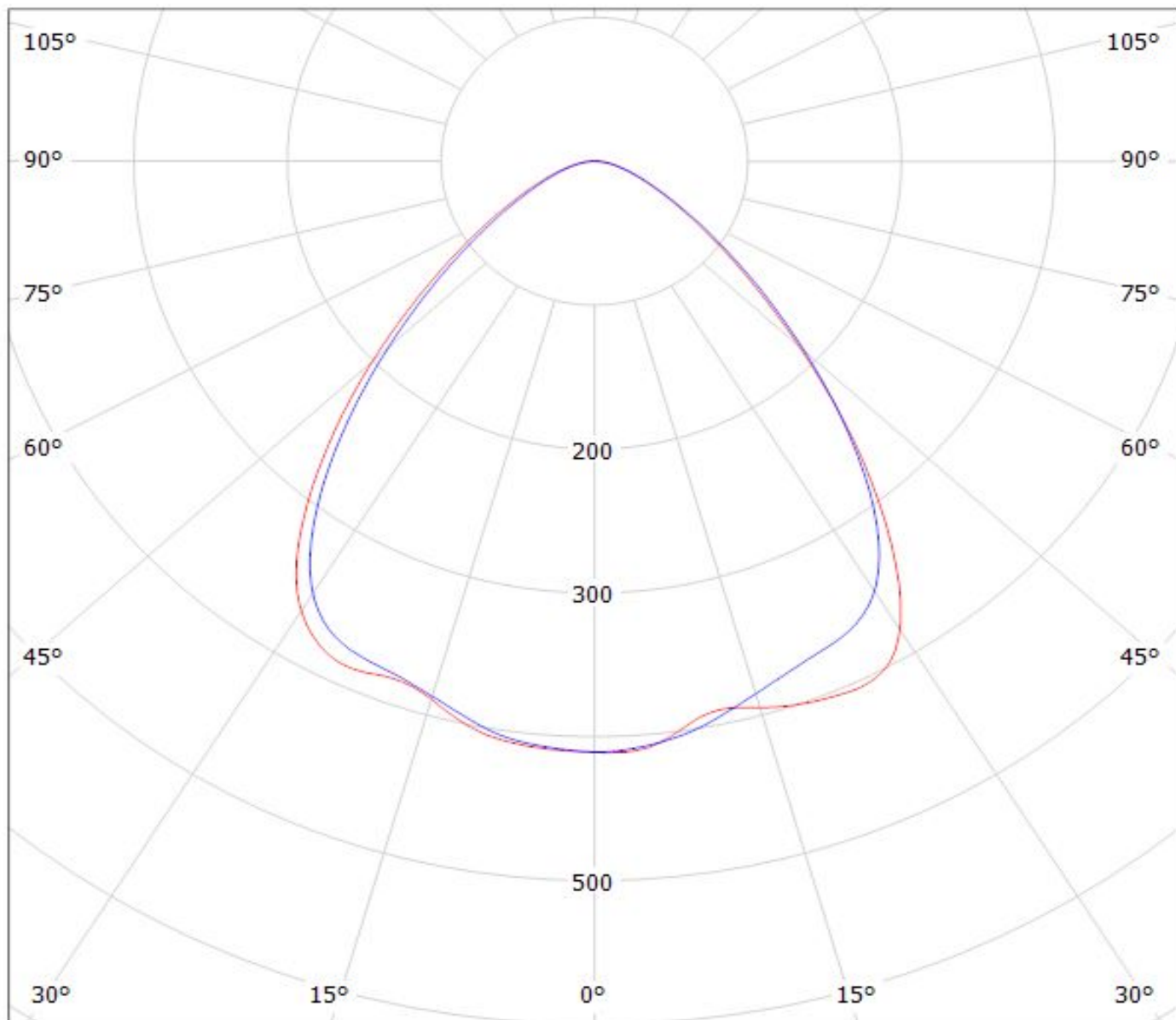
cd/klm

— C0 - C180    — C90 - C270

$\eta = 83\%$



Luminaire: LEDiL Oy F13853\_FLORENCE-Z90\_(DURIS\_S5) Eff.87.5%  
Lamps: 1 x DURIS\_S5\_500.39lm@120mA\_P=3.76814W\_I=120.1mA



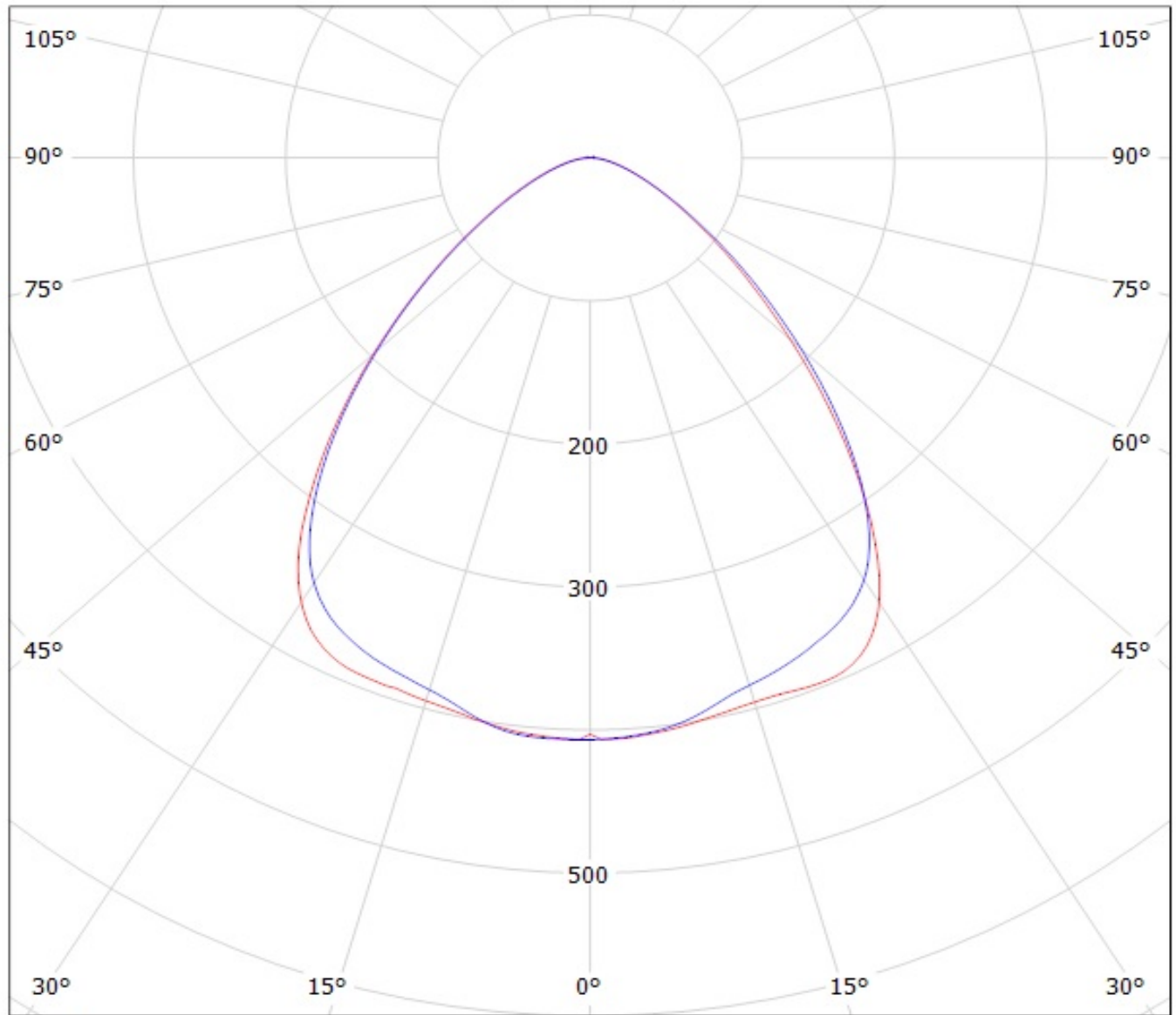
cd/klm

$\eta = 88\%$

— C0 - C180

— C90 - C270

Luminaire: LEDiL Oy F13853\_FLORENCE-Z90\_(DURIS\_E5) Eff: 88%  
Lamps: 1 x Osram\_DURIS\_E5\_567.032lm@120mA\_P=3.6693W\_I=120.1mA



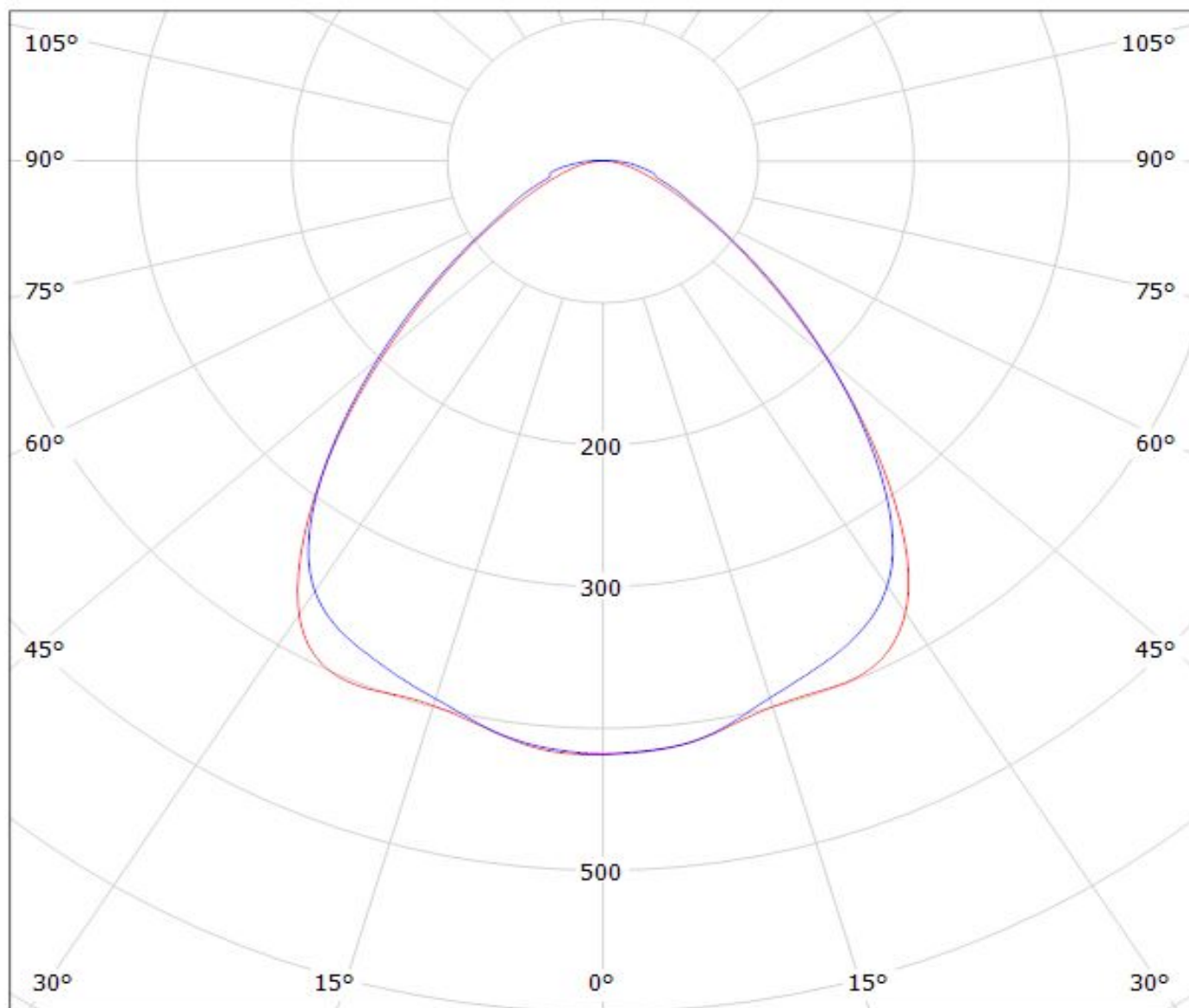
cd/klm

— C0 - C180

— C90 - C270

Luminaire: LEDiL Oy F13853\_FLORENCE-Z90\_(Osram\_PLG2-BAR)

Lamps: 1 x Osram\_PLG2-BAR -1100-830-280x55-DC\_1021.93lm@225mA\_P=7.1643W\_I=0.225A



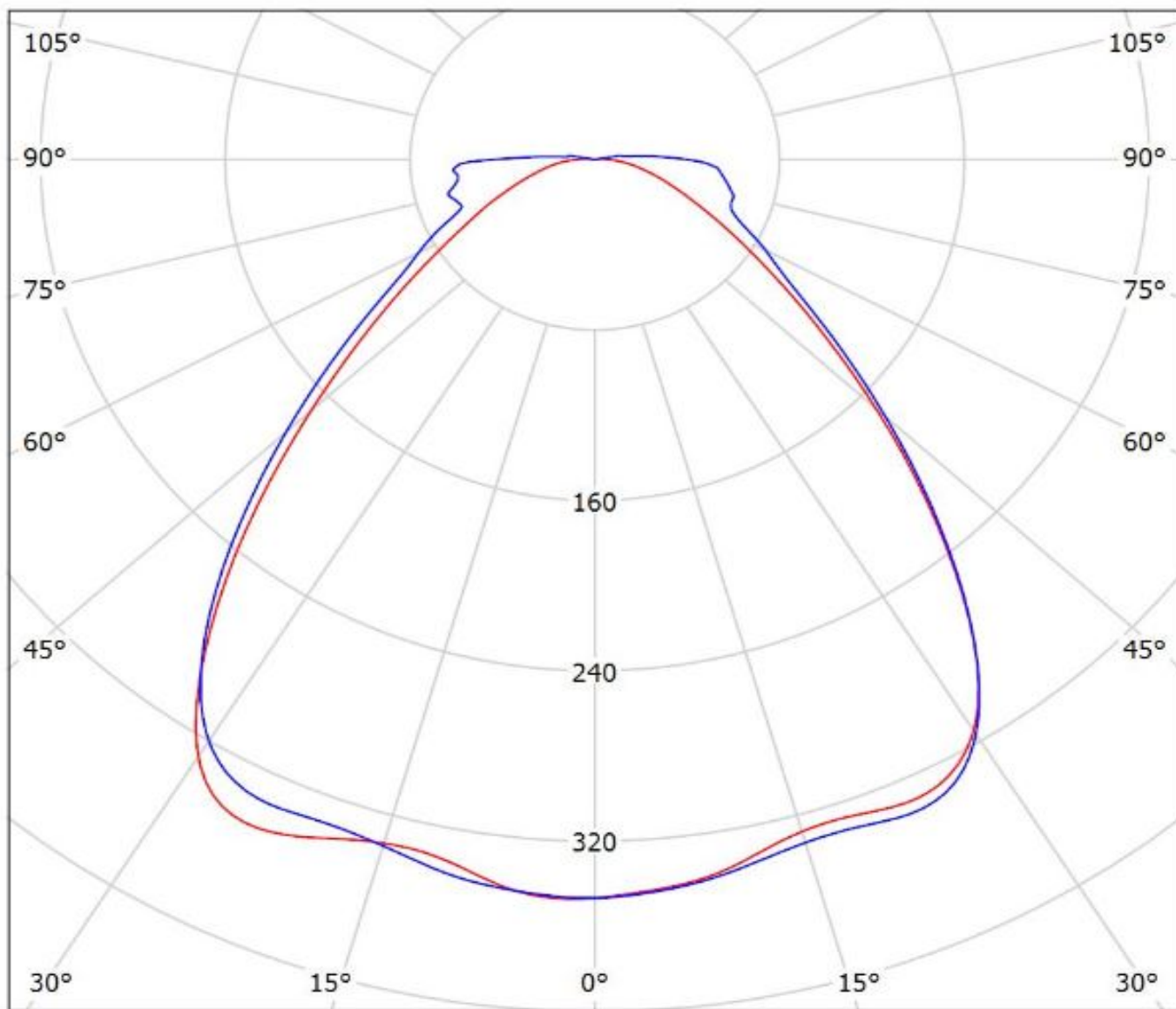
cd/klm

— C0 - C180

— C90 - C270

$\eta = 91\%$

Luminaire: Ledil F13853\_FLORENCE-Z90\_(Duris\_S2)  
Lamps: 1 x Osram\_Duris-S2\_3x11\_(GW\_SBLMA1.EM-GUHQ-XX37-L1N2)  
\_876.783lm@195mA\_CCT=3000K\_P=6.3082W\_I=0.195A

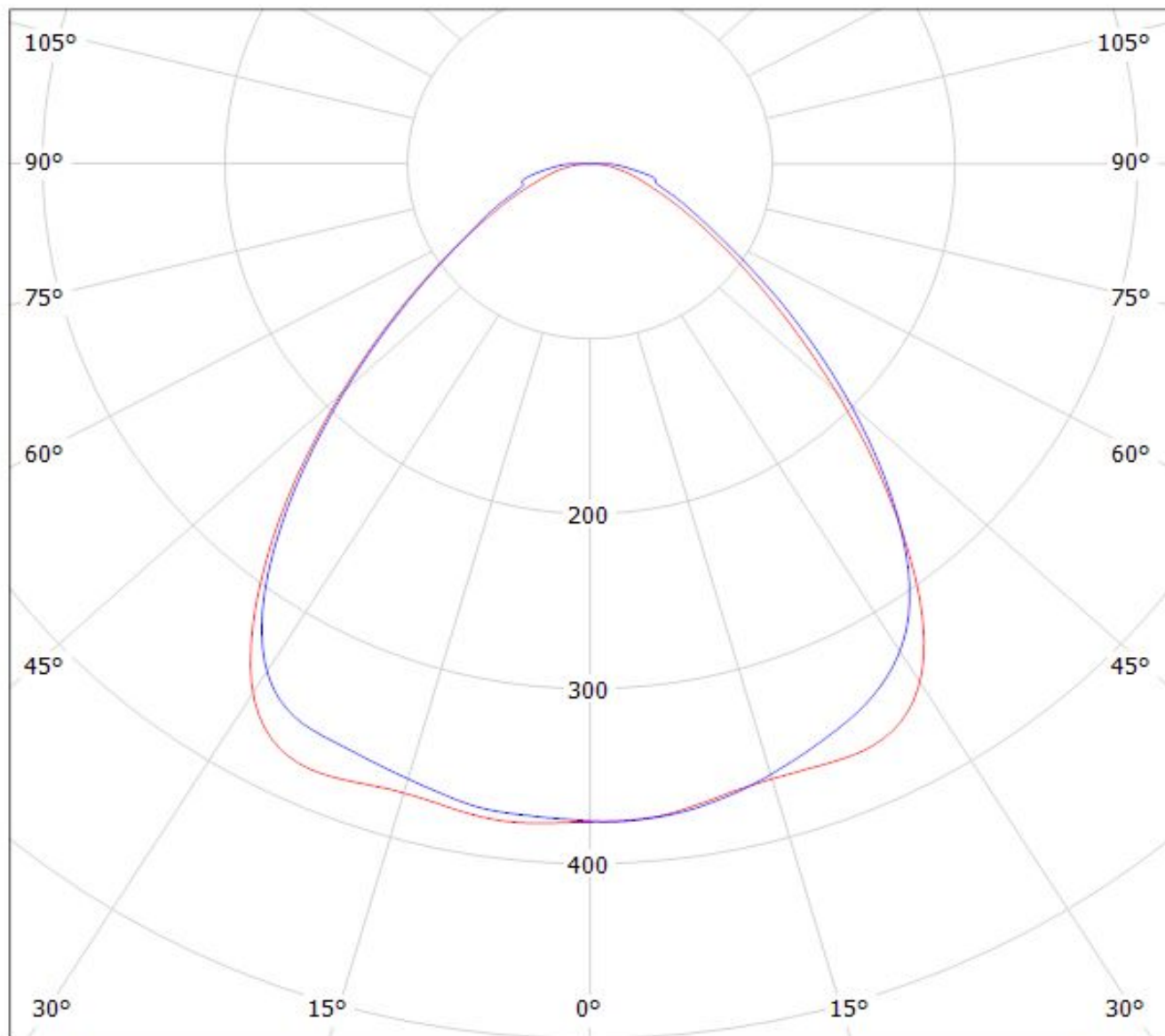


cd/klm  
— C0 - C180 — C90 - C270

$\eta = 90\%$

Luminaire: LEDiL Oy F13853\_FLORENCE-Z90

Lamps: 1 x PHILIPS Fortimo LED Line 1ft 650lm 840 3R HV2 1100lm@250mA P=8.41224W I=250.7mA



cd/klm

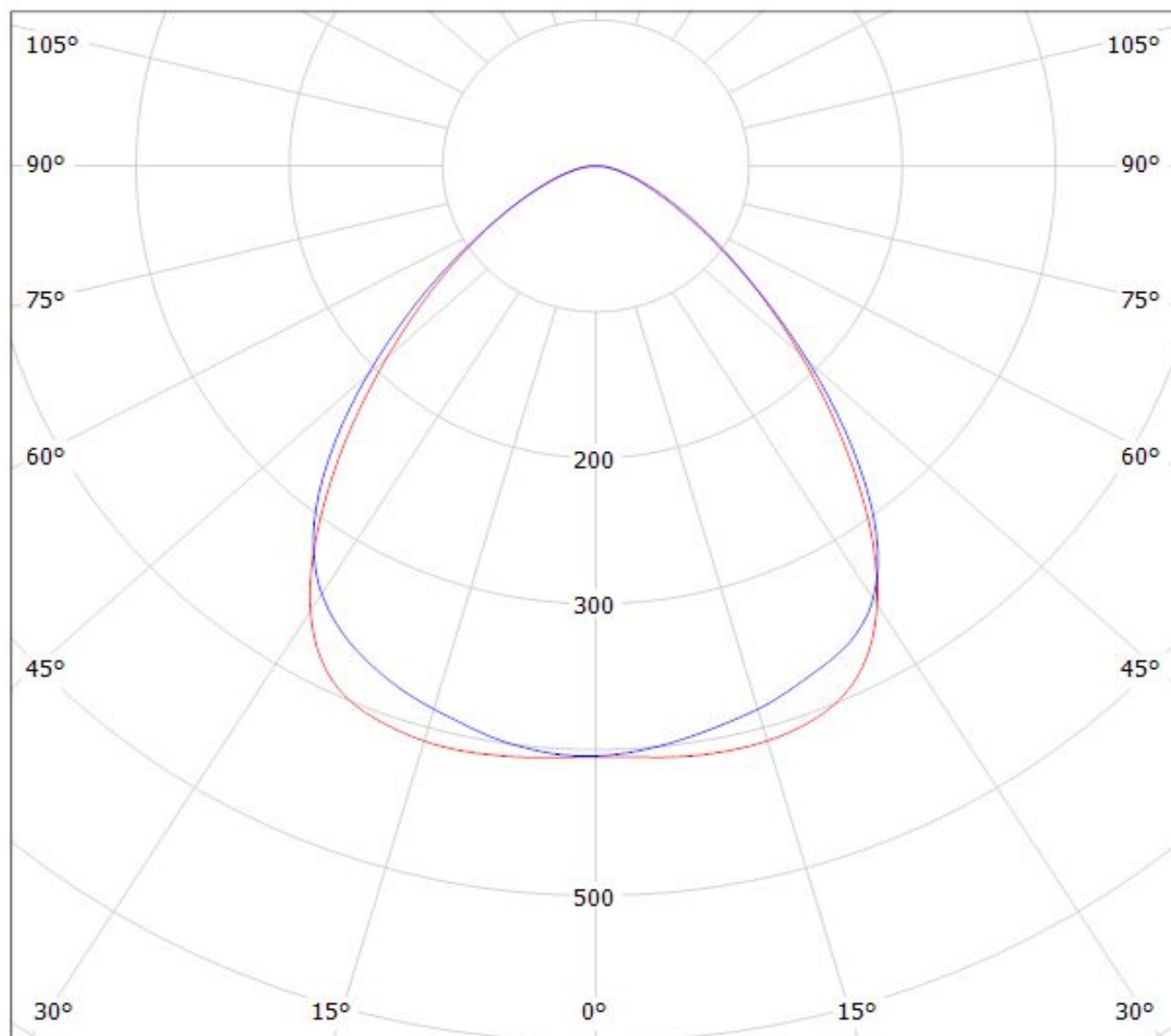
$\eta = 87\%$

— C0 - C180

— C90 - C270

Luminaire: LEDiL Oy F13853\_FLORENCE-Z90 Eff.87.9%

Lamps: 1 x Fortimo\_LED\_Line\_1ft\_1100lm\_3R\_HV2\_1031.47lm@240mA\_CCT=5000K\_P=7.54368W\_I=240mA



cd/klm

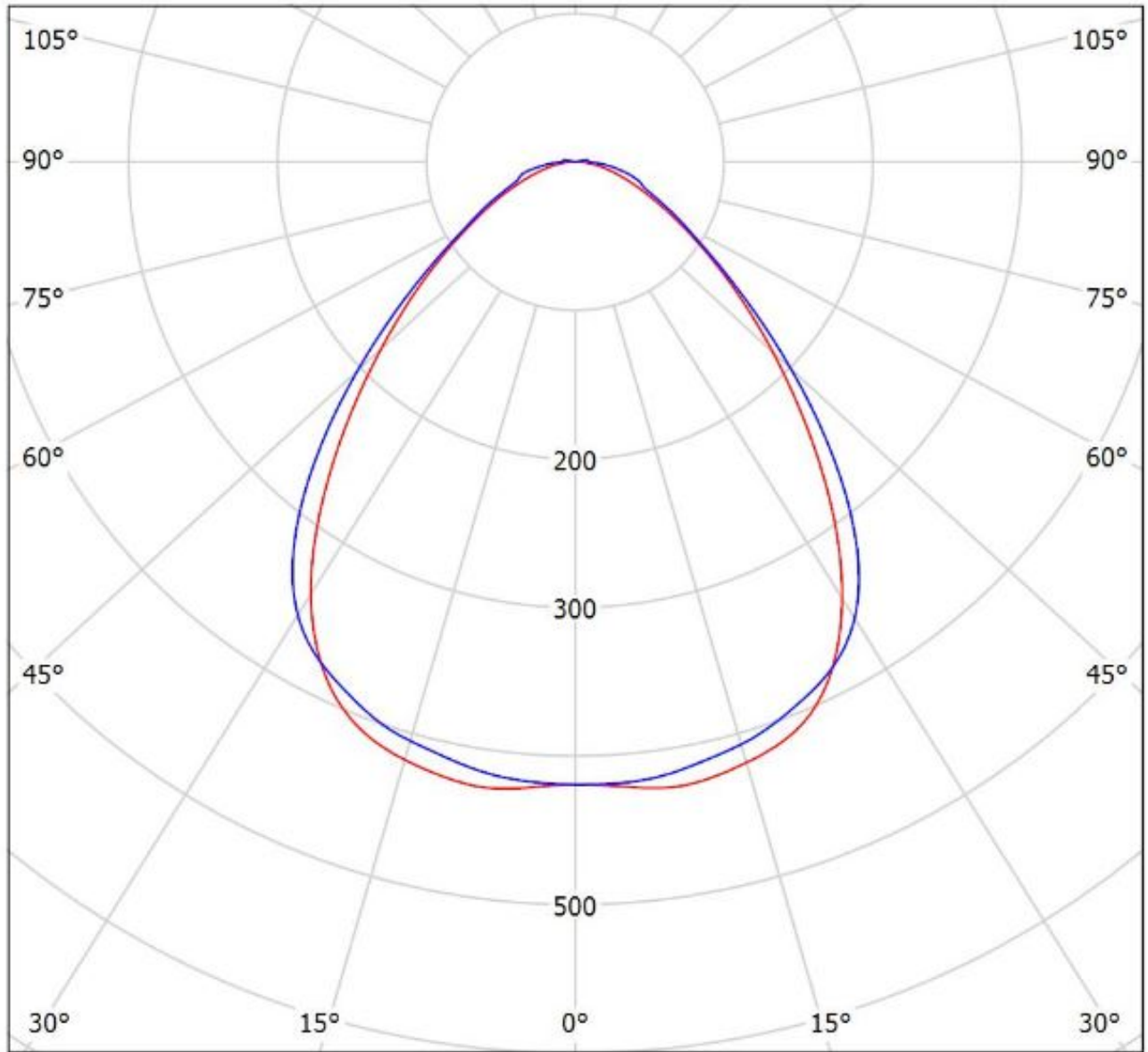
— C0 - C180

— C90 - C270

$\eta = 88\%$

Luminaire: Ledil F13853\_FLORENCE-Z90\_(Fortimo\_LED\_Line\_1ft\_2000lm\_8xx\_3R\_HV2)

Lamps: 1 x Fortimo\_LED\_Line\_1ft\_2000lm\_8xx\_3R\_HV2\_1229.9lm@250mA\_CCT=3000K\_P=7.5790W\_I=0.25A

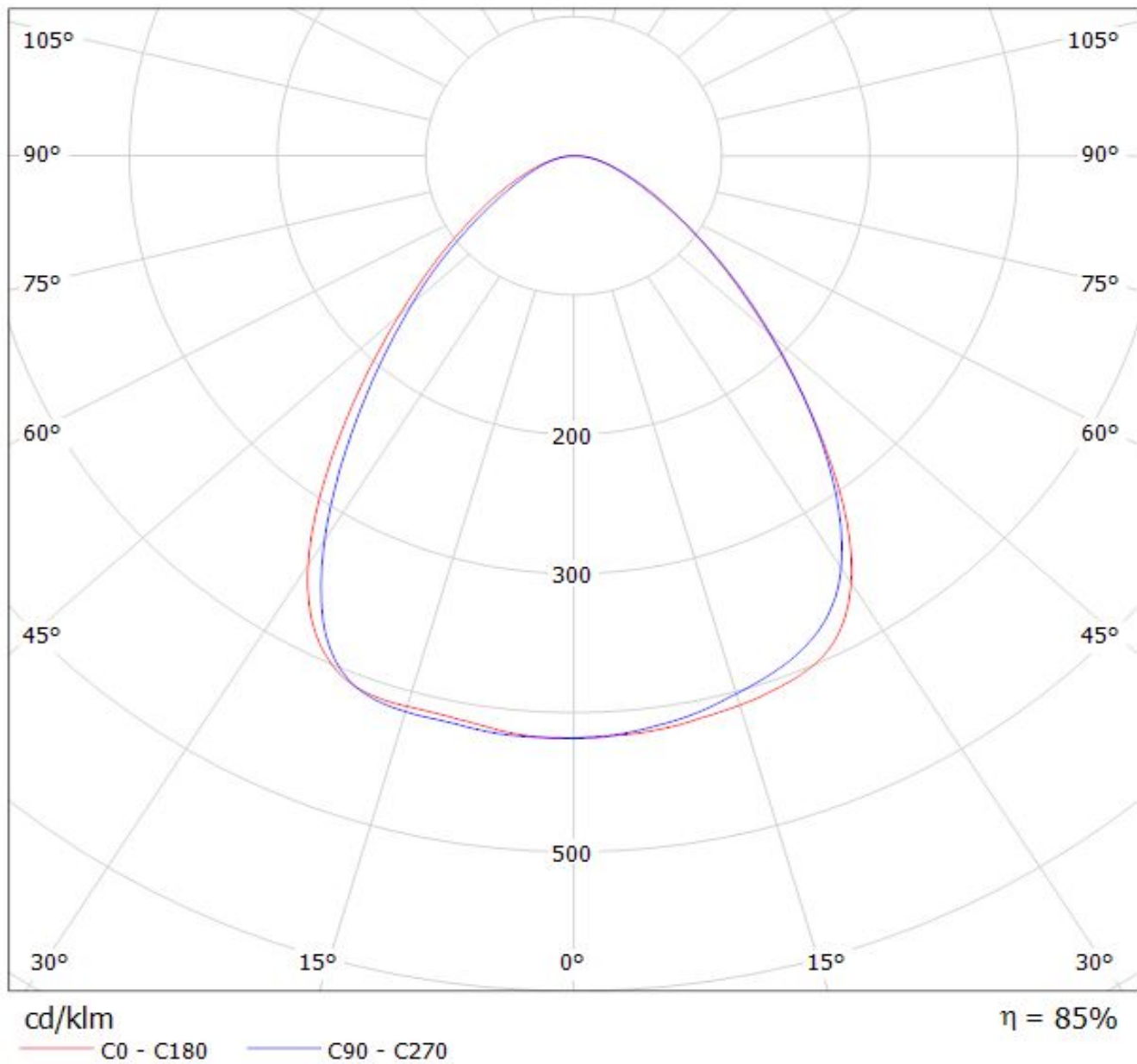


cd/klm

— C0 - C180    — C90 - C270

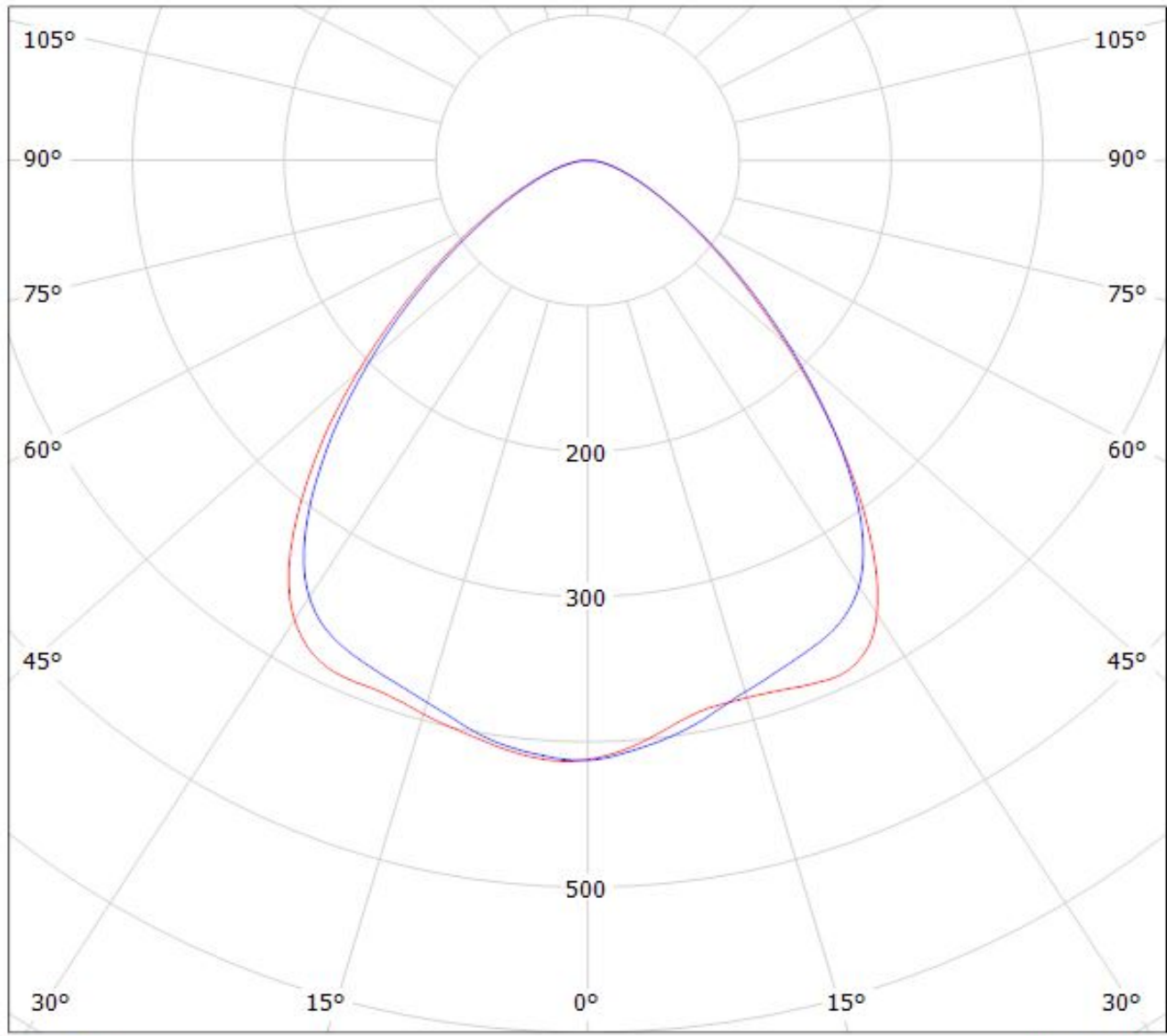
$\eta = 92\%$

Luminaire: LEDiL Oy F13853\_FLORENCE-Z90\_(SAMSUNG\_LM561B)  
Lamps: 1 x SAMSUNG\_LM561B\_679.266lm@150mA\_P=4.6185W\_I=150mA





Luminaire: LEDiL Oy F13853\_FLORENCE-Z90\_(LM231B) Eff.87.6%  
Lamps: 1 x SAMSUNG\_LM231B\_571.834lm@150mA\_P=4.62435W\_I=150mA



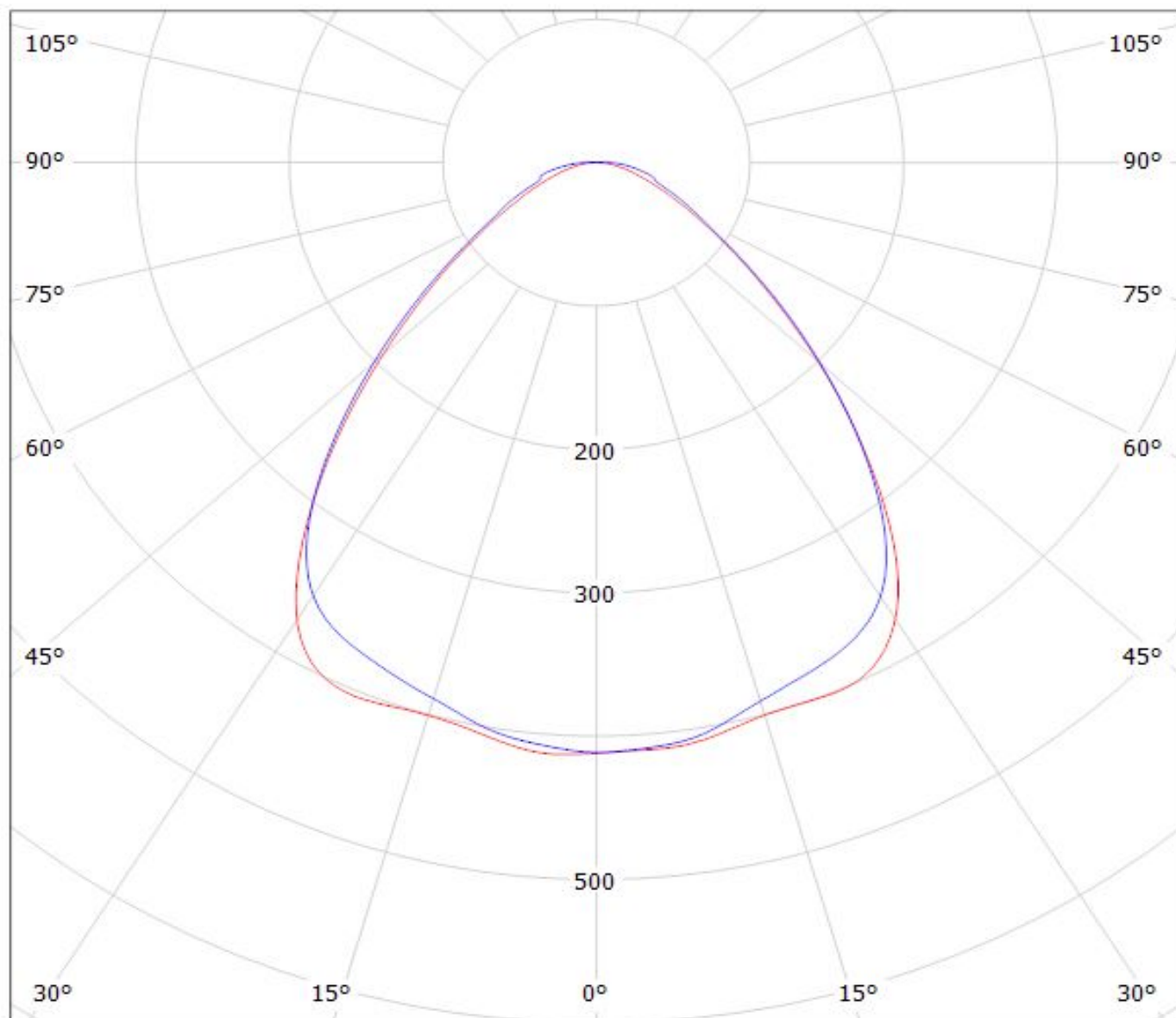
cd/klm

$\eta = 88\%$

— C0 - C180    — C90 - C270

Luminaire: LEDiL Oy F13853\_FLORENCE-Z90\_(LT-R286A)

Lamps: 1 x Samsung\_LT-R286A\_1304.7lm@250mA\_P=8.2181W\_I=0.250A



cd/klm

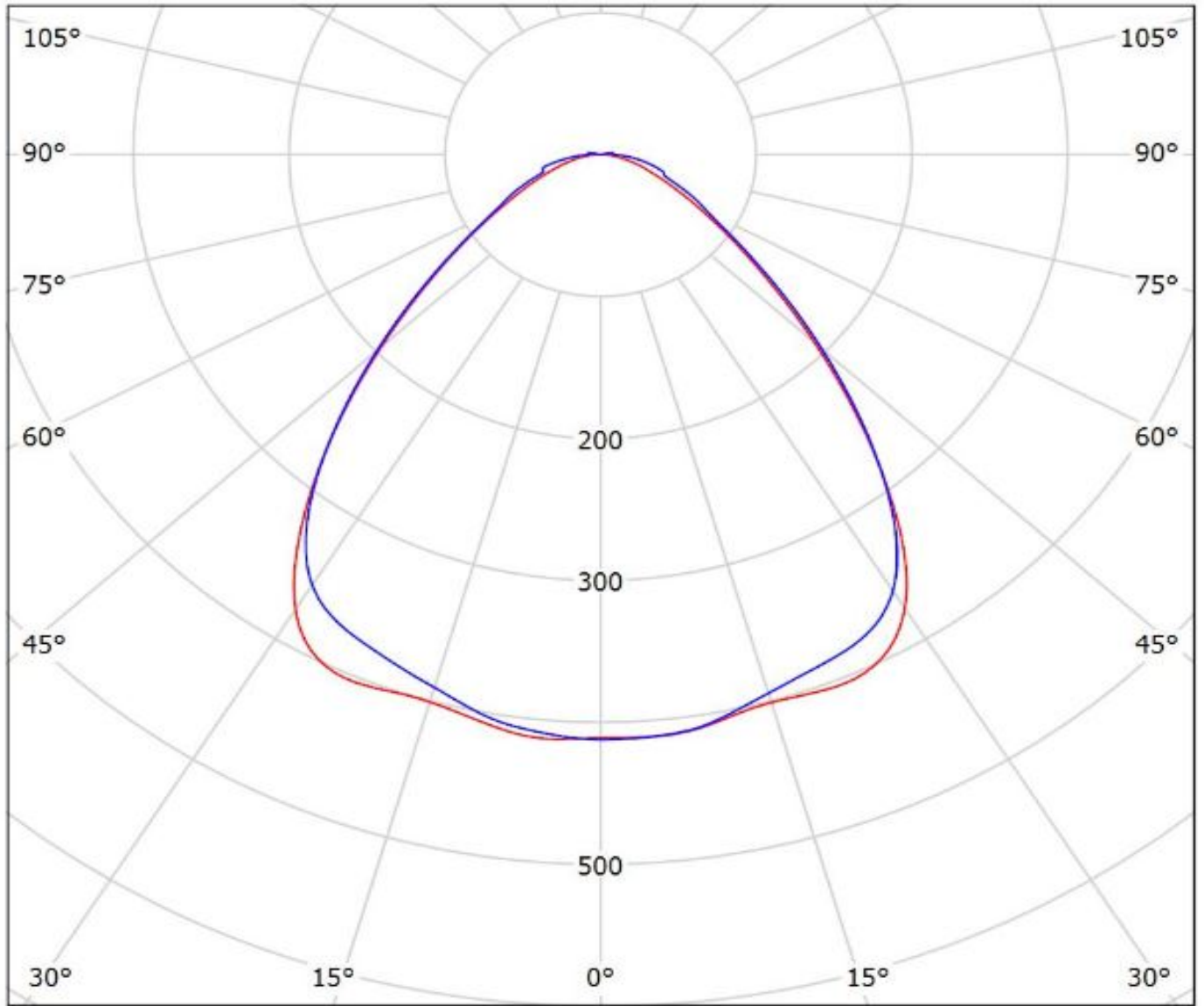
— C0 - C180

— C90 - C270

$\eta = 92\%$

Luminaire: Ledil F13853\_FLORENCE-Z90\_(LM561B PLUS)

Lamps: 1 x Samsung LM561B PLUS 1366.12lm@250mA\_P=8.071W\_I=0.25A



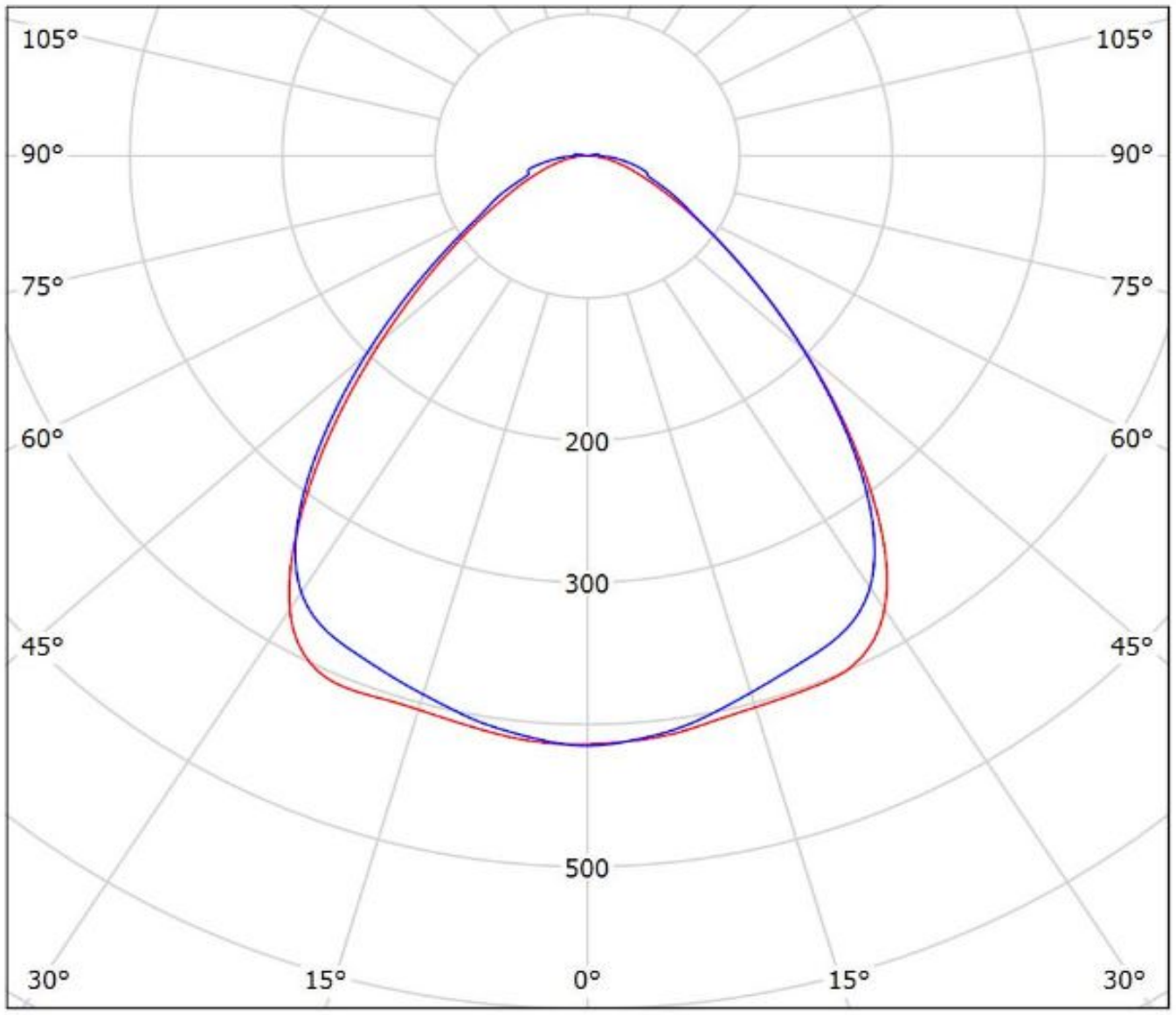
cd/klm

— C0 - C180

— C90 - C270

$\eta = 93\%$

Luminaire: Ledil F13853\_FLORENCE-Z90\_(LM561C)  
Lamps: 1 x SAMSUNG LM561C 1407.48lm@250mA\_P=7.7190W\_I=0.25A

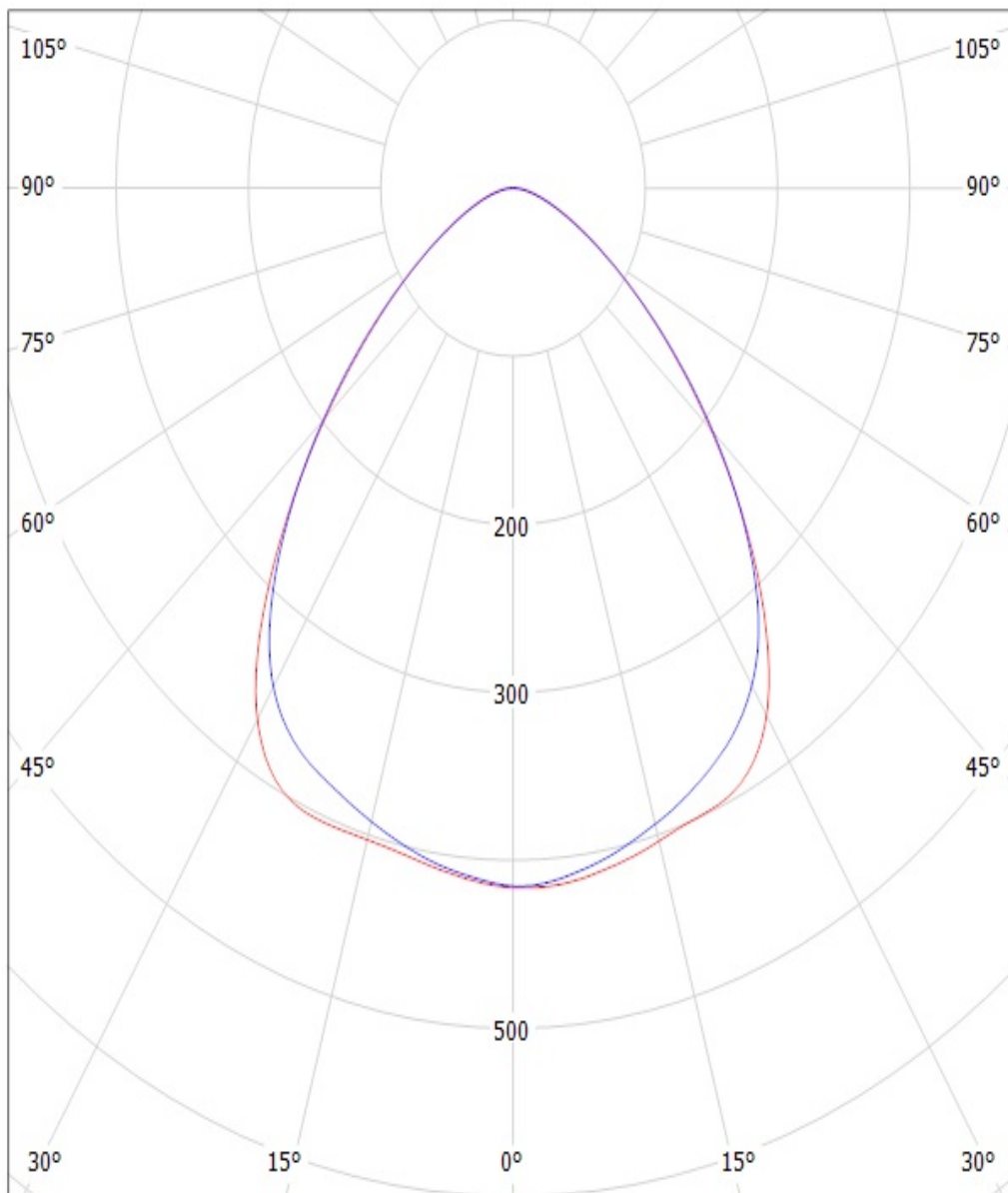


cd/klm  
— C0 - C180 — C90 - C270

$\eta = 93\%$

Luminaire: LEDiL Oy F13853\_FLORENCE-Z90\_(LLE-55-280-1650)

Lamps: 1 x Tridonic\_STARK\_LLE-55-280-1650\_(STARK\_LLE-55-280-1650-840-CLA)\_1478.34lm@325lm\_CCT=4000K\_P=10.1908W\_I=324.9mA



cd/klm

$\eta = 90\%$

— C0 - C180    — C90 - C270

**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.**