

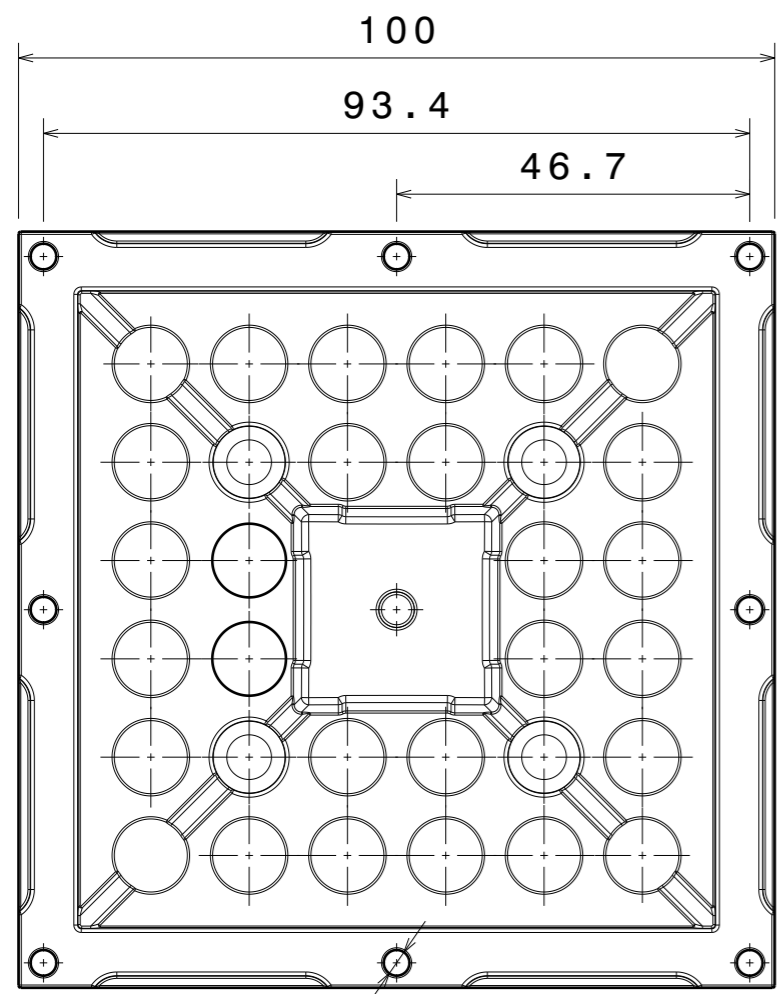
## DETAILS

<b>Product Number</b>	CS16324_STRADELLA-IP-28-HB-W
<b>Family</b>	Stradella
<b>Type</b>	Assembly
<b>Color</b>	clear
<b>Diameter</b>	100 x 100 mm
<b>Height</b>	9,5 mm
<b>Style</b>	square
<b>Optic Material</b>	
<b>Holder Material</b>	
<b>Fastening</b>	pin, screw
<b>Status</b>	sample approved
<b>ROHS Compliant</b>	Yes
<b>Date Updated</b>	15/12/2017

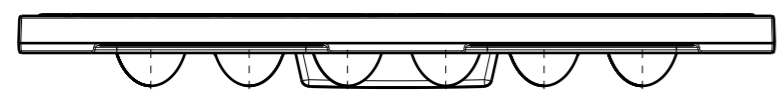
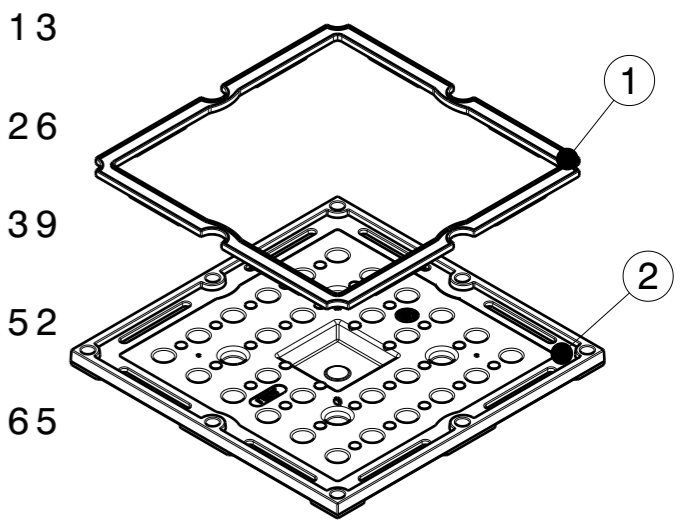
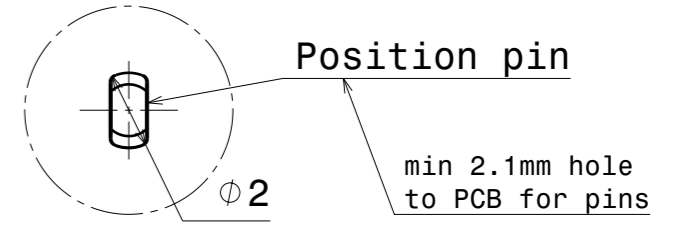
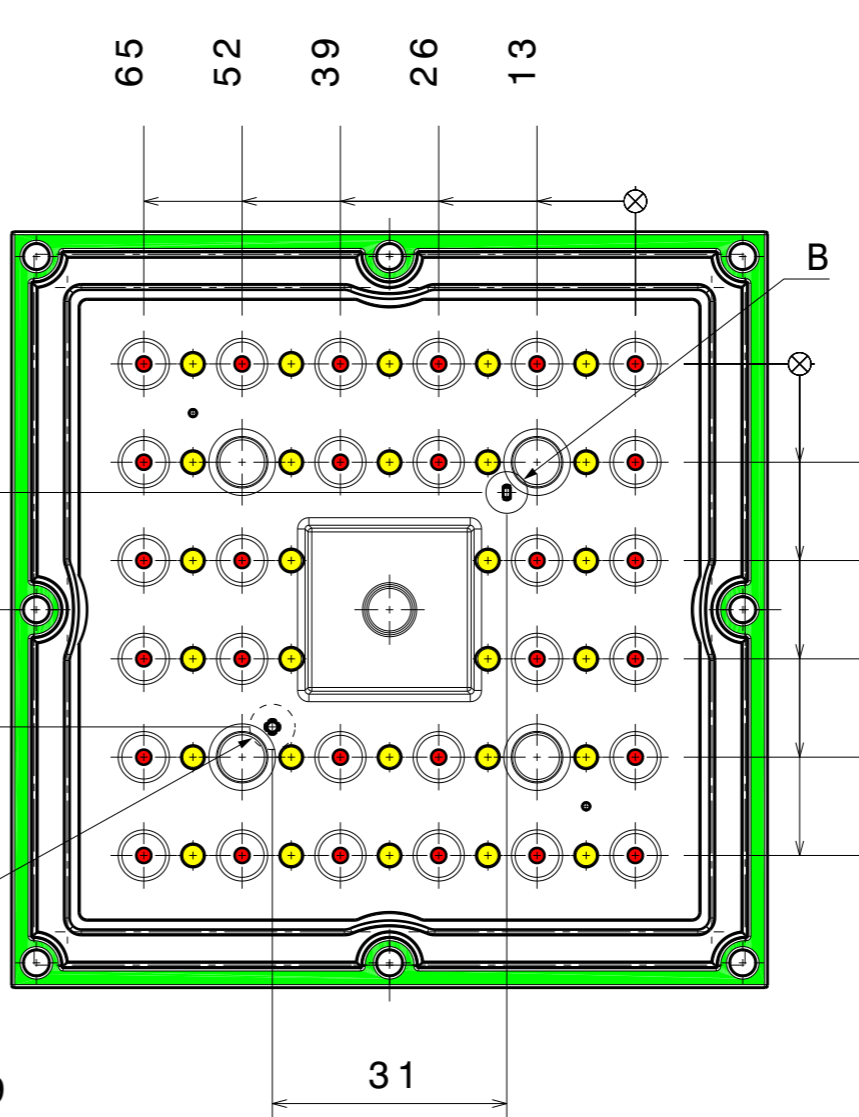
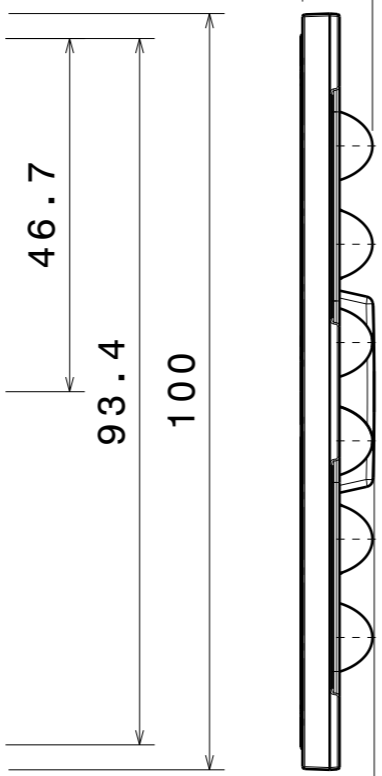


## OPTICAL PROPERTIES

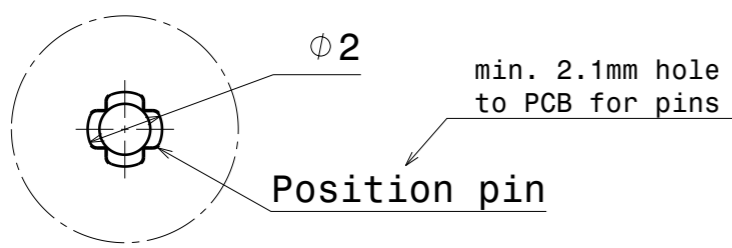
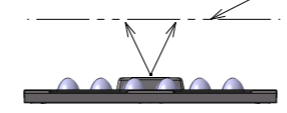
LED	Viewing	Light	Effi-		Connector
	Angle	Beam	ciency	cd/lm	
XT-E	sim: 82	HighBay	sim: 92 %	sim: 0.496	-
XP-G3	sim: 95	HighBay	sim: 94 %	sim: 0.430	-
J Series 3030	sim: 91	HighBay	sim: 94 %	sim: 0.470	-
LUXEON 3030 2D	sim: 85	HighBay	sim: 92 %	sim: 0.520	-
NVSxE21A	sim: 87	HighBay	sim: 92 %	0.503	-
Duris S5 (2 chip)	sim: 86	HighBay	sim: 94 %	sim: 0.500	-
Oslon SSL 150	sim: 107	HighBay	sim: 94 %	sim: 0.390	-
Z8Y22	sim: 100	HighBay	sim: 92 %	sim: 0.418	-



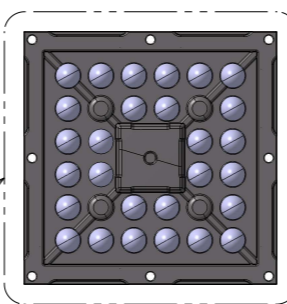
See Code table  
Height (9.25)



Light pattern direction



Light pattern direction



Code table:

Assembly code	Lens code	Name	Material	Height
CS16322	C16319	STRADELLA-IP-28-HB-S	PMMA	9.20mm
CS16323	C16320	STRADELLA-IP-28-HB-M	PMMA	8.57mm
CS16324	C16321	STRADELLA-IP-28-HB-W	PMMA	8.47mm
CS16328	C16325	STRADELLA-IP-28-HB-S-PC	PC	9.20mm
CS16329	C16326	STRADELLA-IP-28-HB-M-PC	PC	8.57mm
CS16330	C16327	STRADELLA-IP-28-HB-W-PC	PC	8.47mm

**COMPONENTS**

INDEX	PRODUCT	TYPE	MATERIAL	COLOUR
1	C15900_STRADELLA-28-SEAL	GASKET	SILICONE	white
2	See Code table	LENS	See code table	clear

**MECHANICAL DRAWING**

PRODUCT  
STRADELLA-IP-28-HB-family



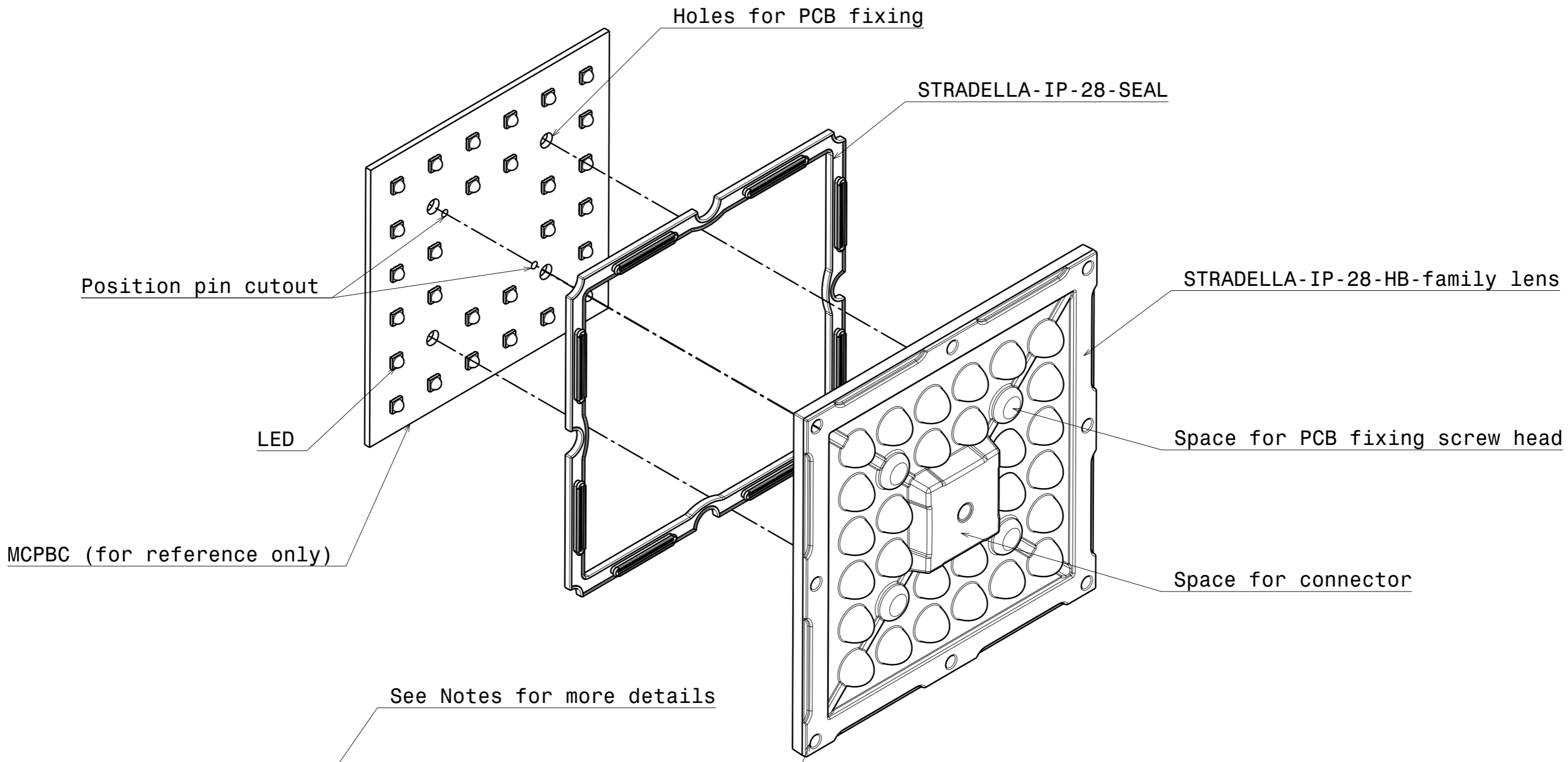
Tolerances if not otherwise shown  
According to DIN ISO 2768-1  
Linear measures:  
Up to 30mm class M, otherwise class C.  
According to DIN ISO 2768-2  
Form and position: class L

FIRST ANGLE PROJECTION:

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SCALE	1:1	SIZE	A3	SHEET	1/2
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- Notes**
- Heat Sink level
  - PCB level
  - Led location see red dot
- Ensure LED fitting, see our web site and/or 3D model for part detail.  
See installation details page 2.



See Notes for more details

**LENS fixing:**  
 8pcs M3 screw recommended for fixing  
 Use washer with screw if possible  
 Use maximum tightening torque of 0.60Nm  
 Countersunk screws not allowed

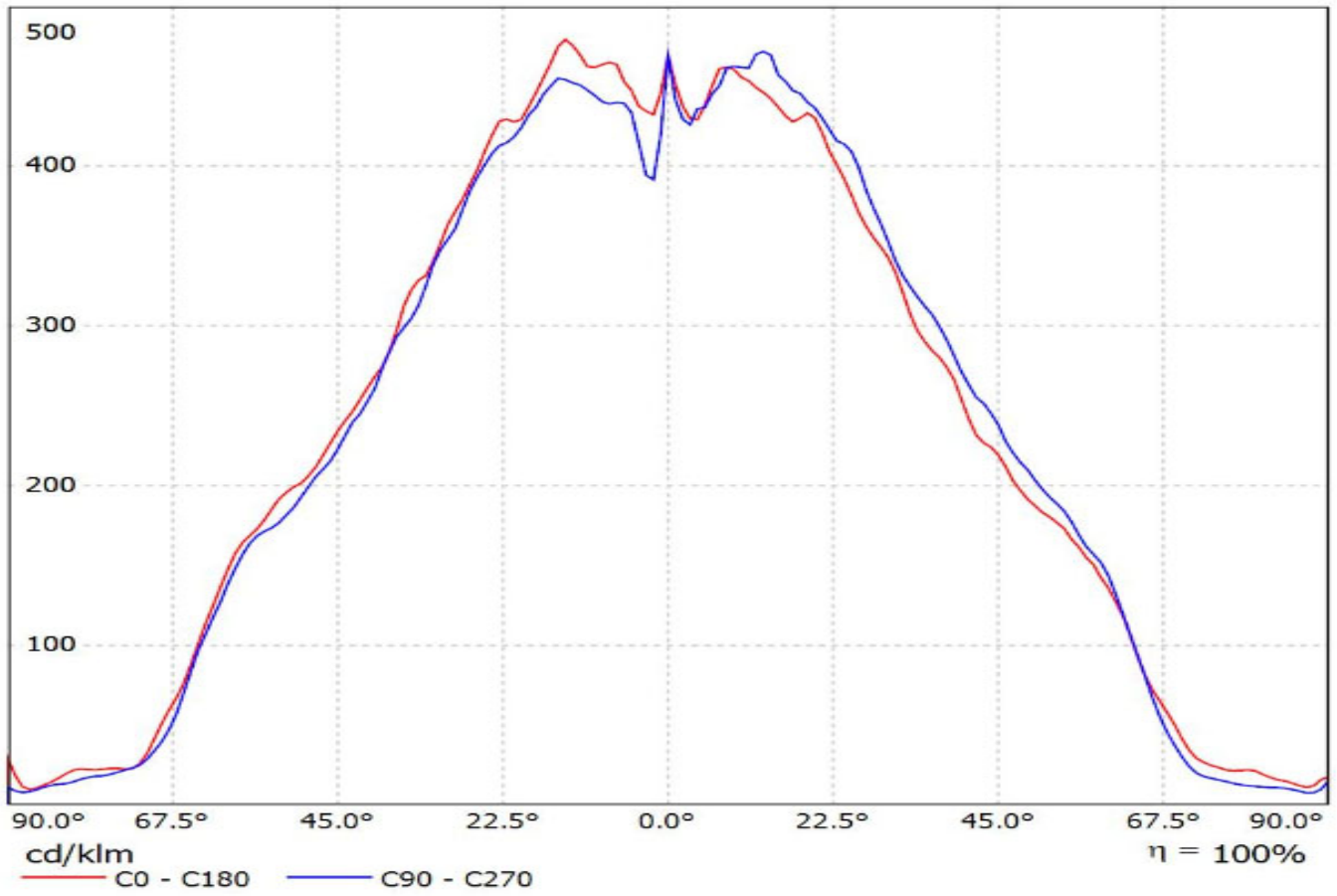
**Notes**

Please see more details for fastening in LEDiL Installation guide, [www.ledil.com](http://www.ledil.com)

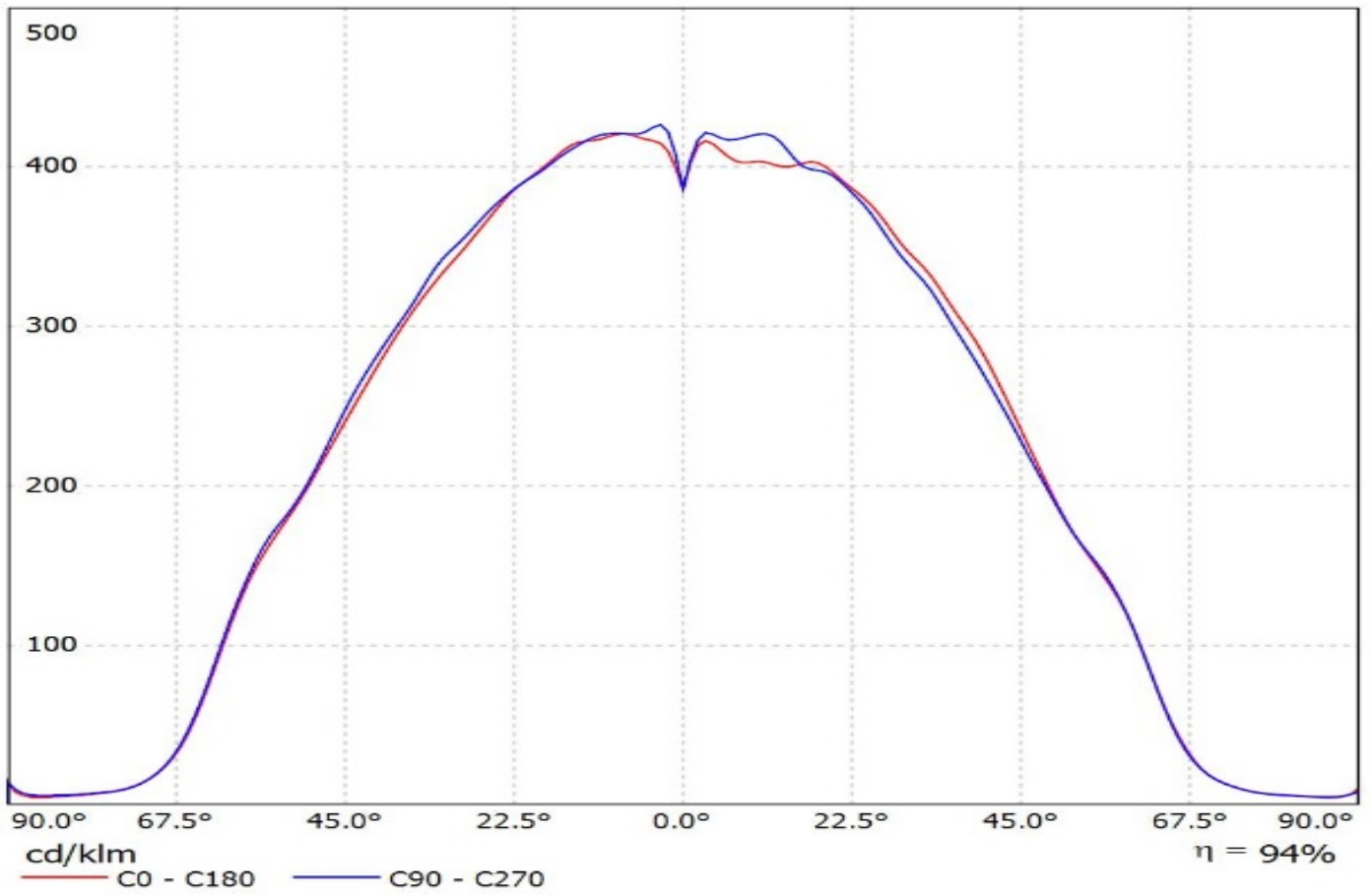
Seal is tested to work in LEDiL's test assemblies. Customer is recommended to test the sealing in the end product due many variables, such as heat sink surface and possible chemical traces.

<b>MECHANICAL DRAWING</b>		<b>LEDiL<sup>®</sup></b>			
PRODUCT STRADELLA-IP-28-HB-family					
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	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.			
SCALE	1:1	SIZE	A3	SHEET	2/2

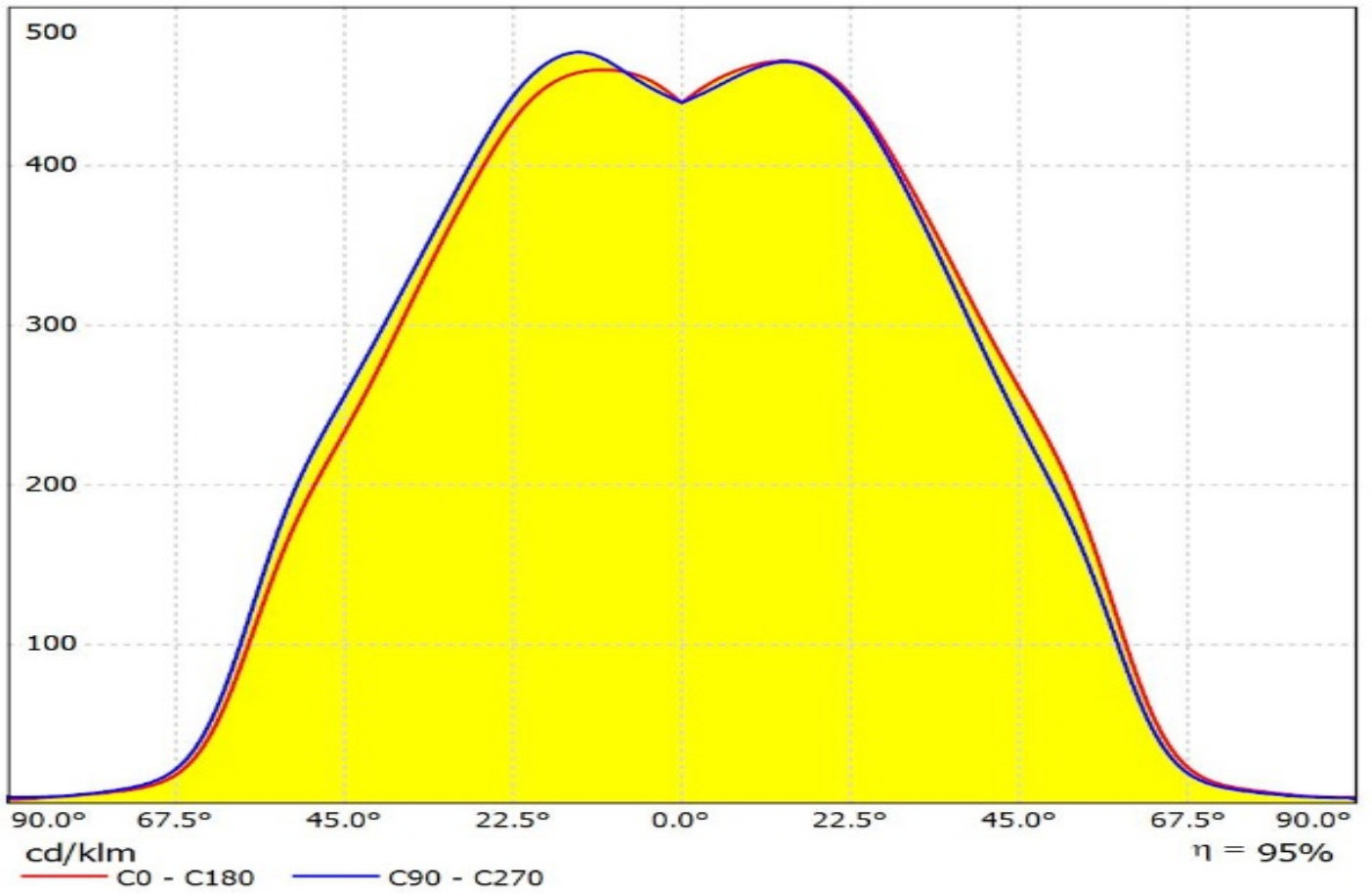
Valaisin: Ledil Oy CS16324\_STRADELLA-IP-28-HB-W\_(Cree XT-E)\_SIMULATED  
Lamput: 1 x Cree XT-E (100lm)



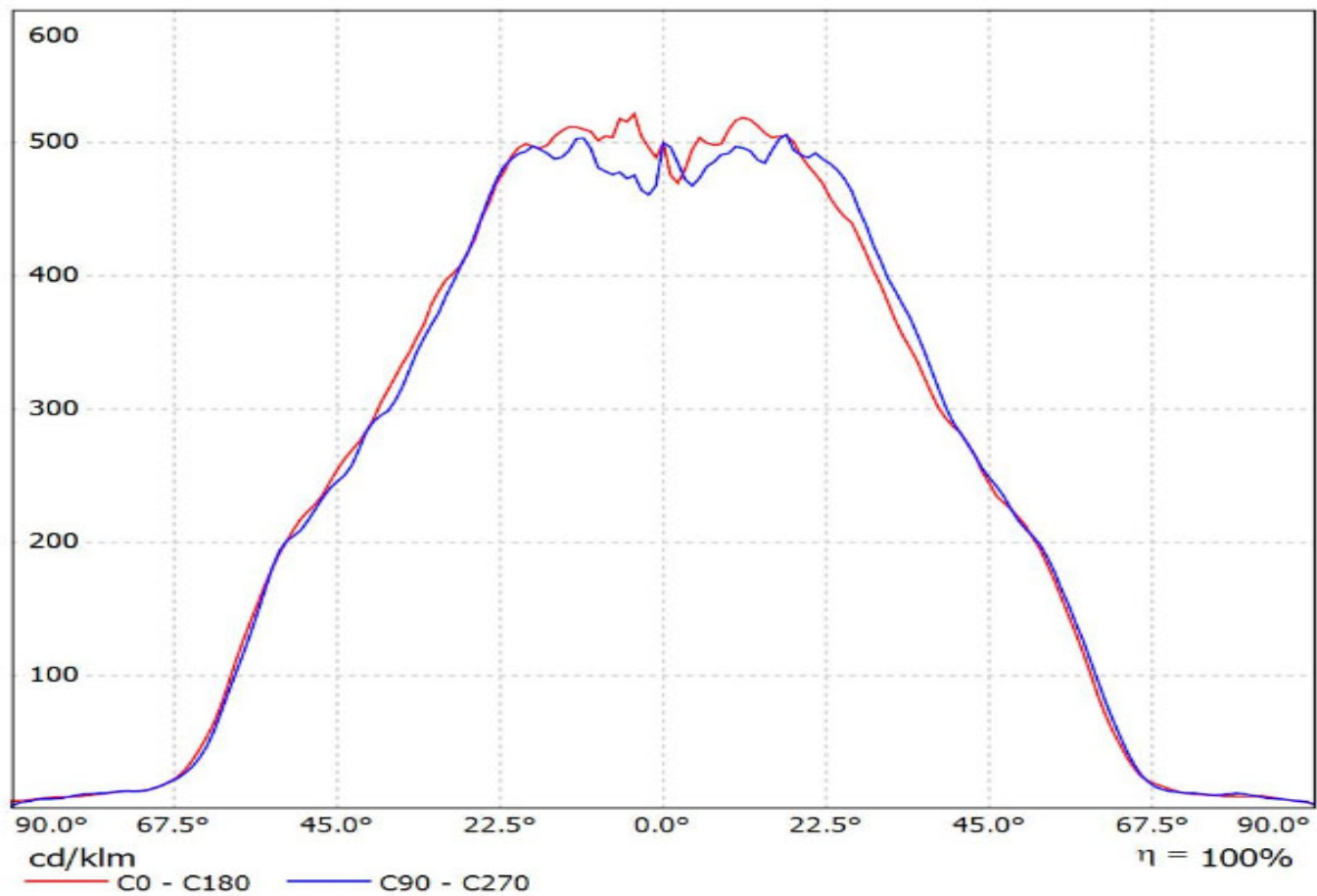
Luminaire: Ledil Oy CS16324\_STRADELLA-IP-28-HB-W\_(XP-G3)\_SIMULATED  
Lamps: 1 x Cree XP-G3



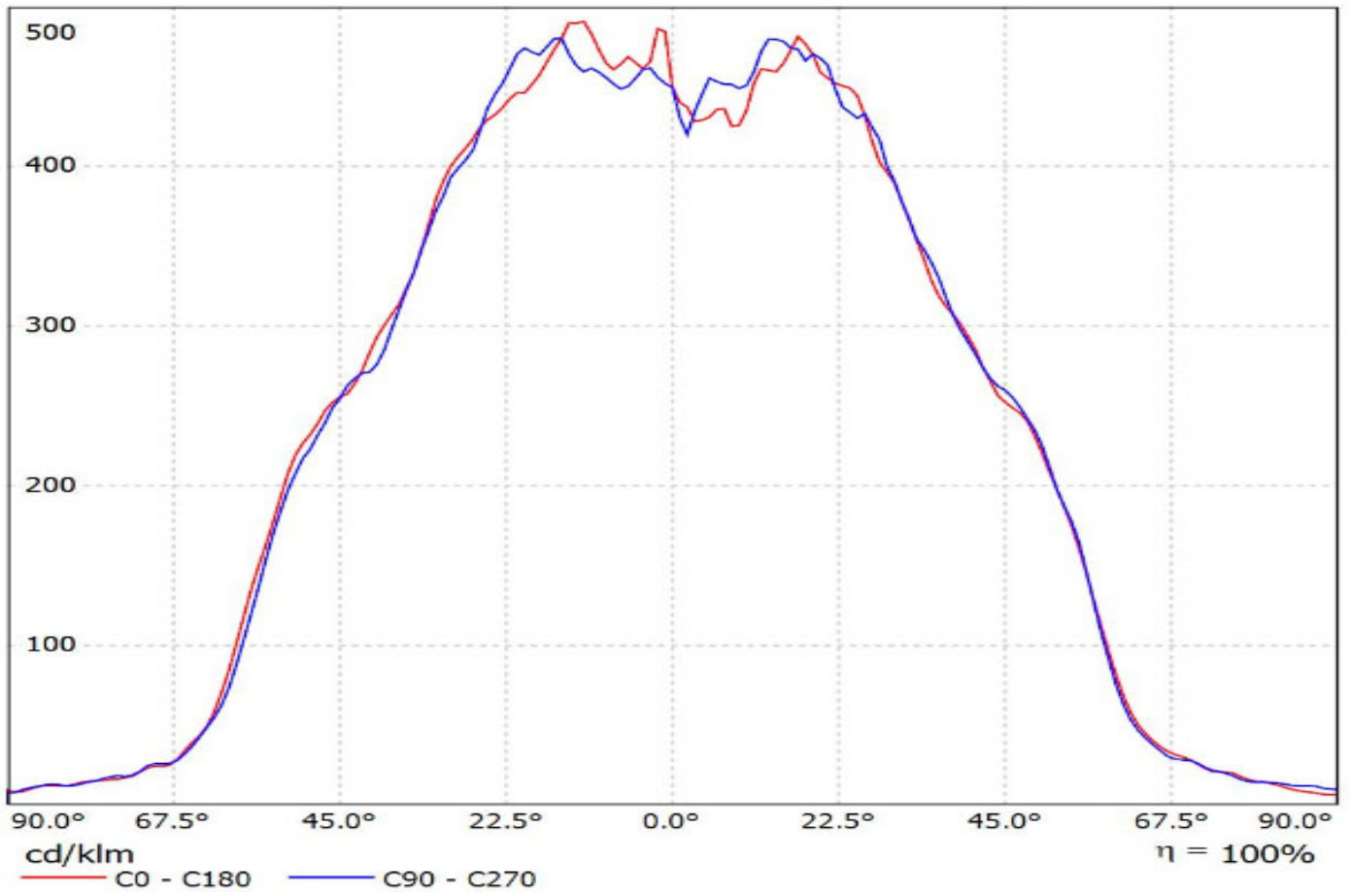
Luminaire: Ledil Oy CS16324\_STRADELLA-IP-28-HB-W\_(J\_Series\_3030\_-\_JK3030\_3V)\_SIMULATED  
Lamps: 1 x Cree JK3030 3V



Valaisin: Ledil Oy CS16324 STRADELLA-IP-28-HB-W\_(Luxeon 3030 2D)\_SIMULATED  
Lamput: 1 x LUXEON 3030 2D (100lm)

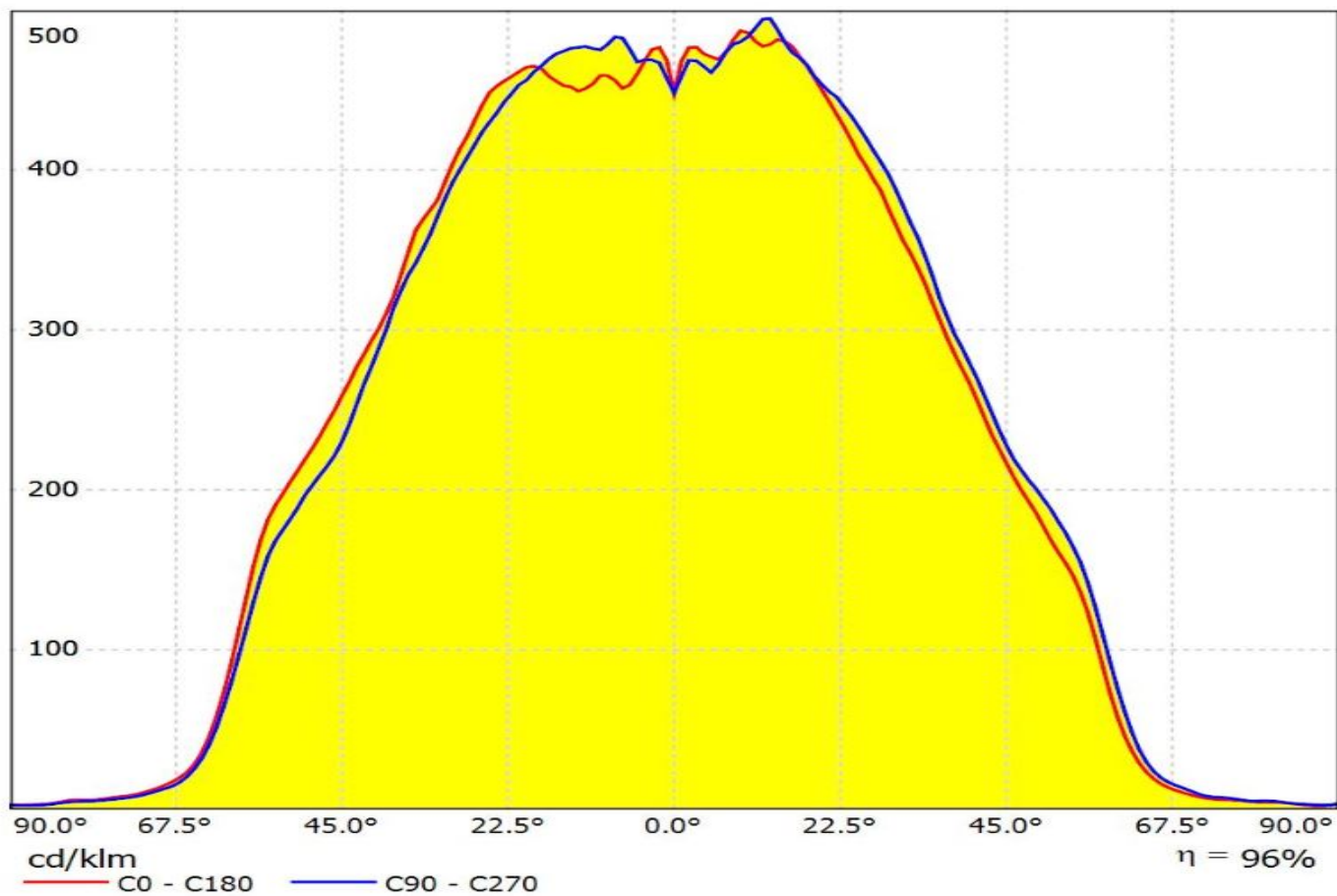


Valaisin: Ledil Oy CS16324\_STRADELLA-IP-28-HB-W\_(Nichia NVSLE21A)\_SIMULATED  
Lamput: 1 x Nichia NVSLE21A (100lm)

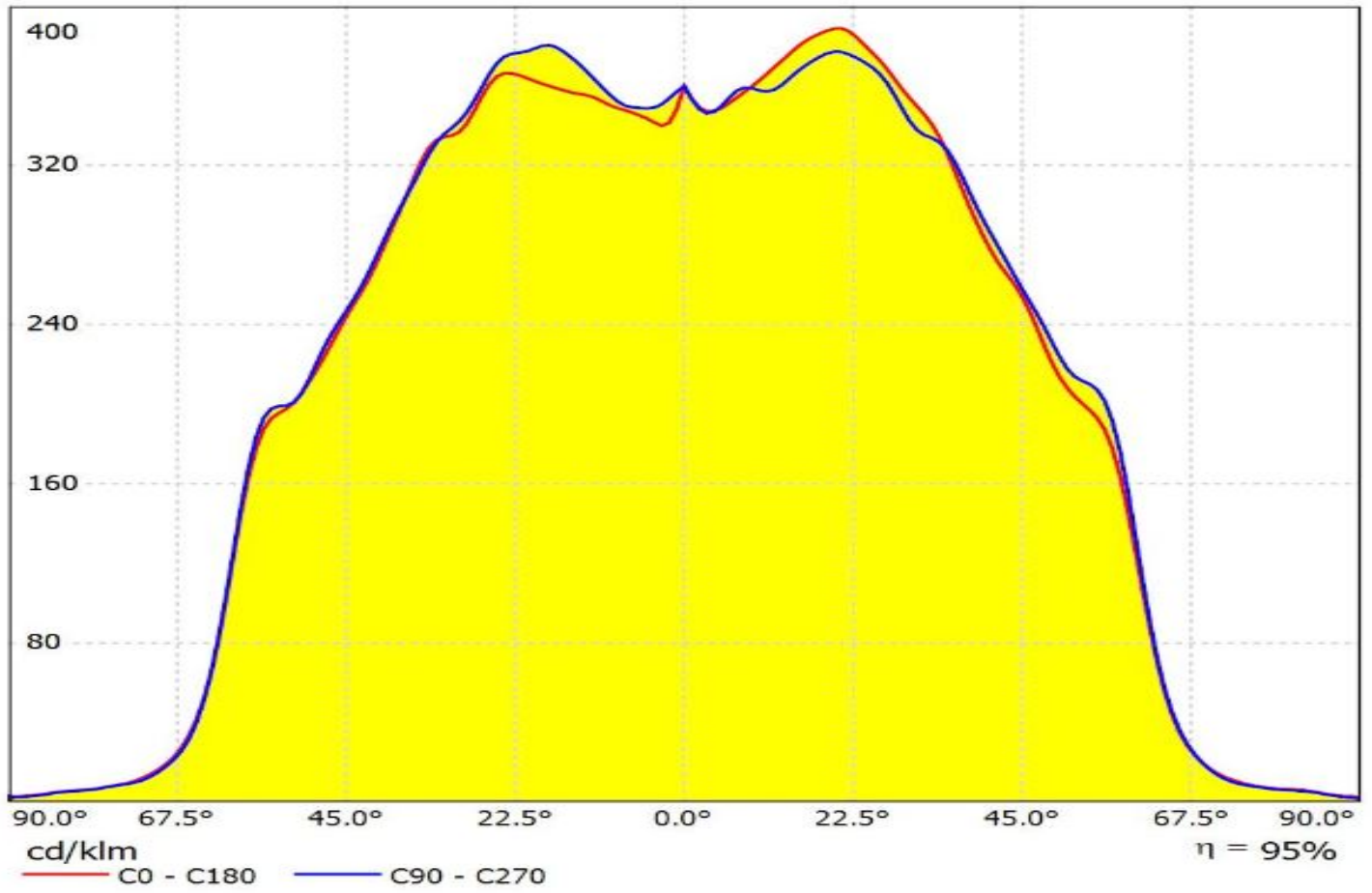




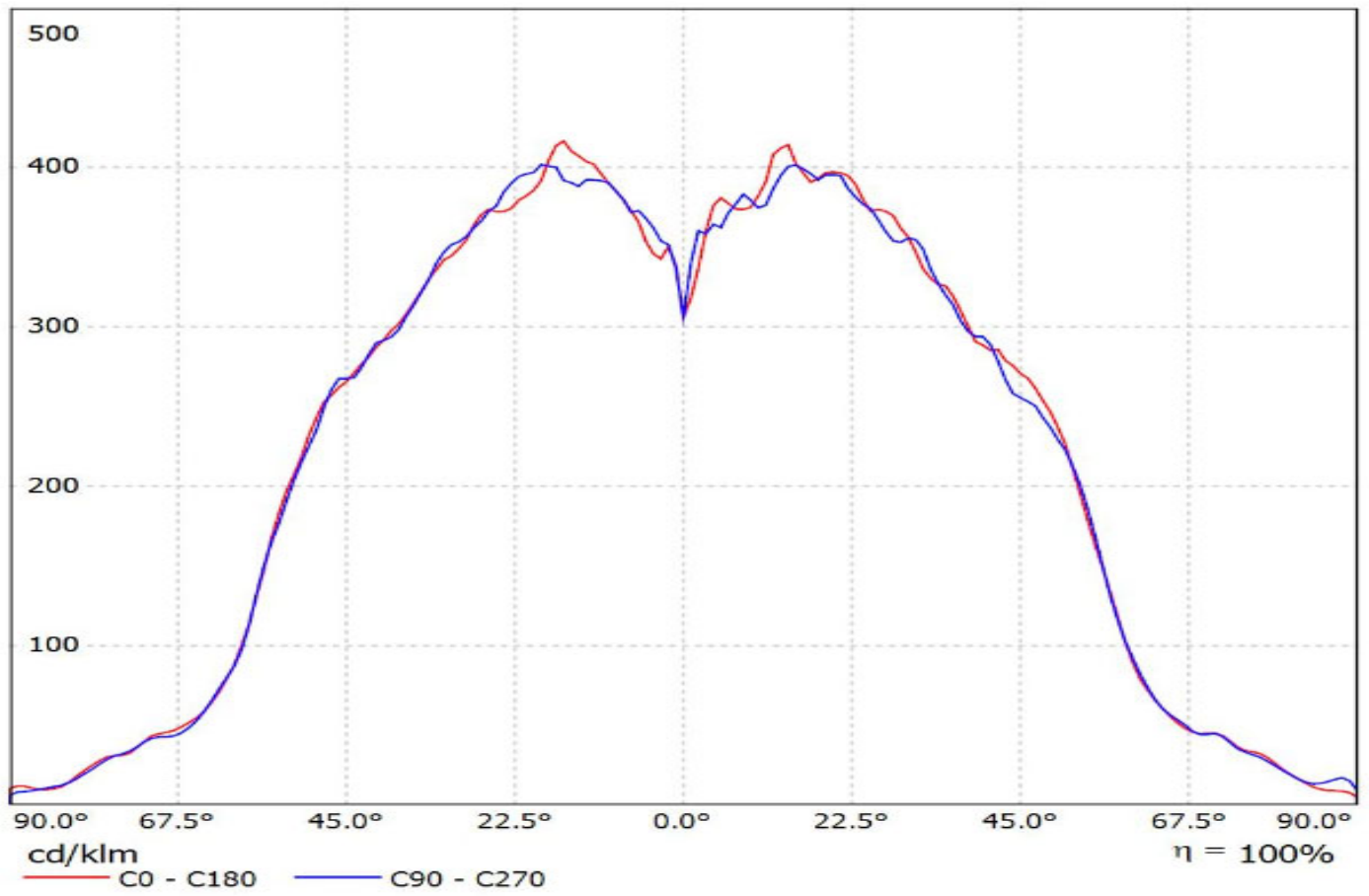
Luminaire: Ledil Oy SIMULATION SIMULATION  
Lamps: 1 x SIMULATION - 1.00 W



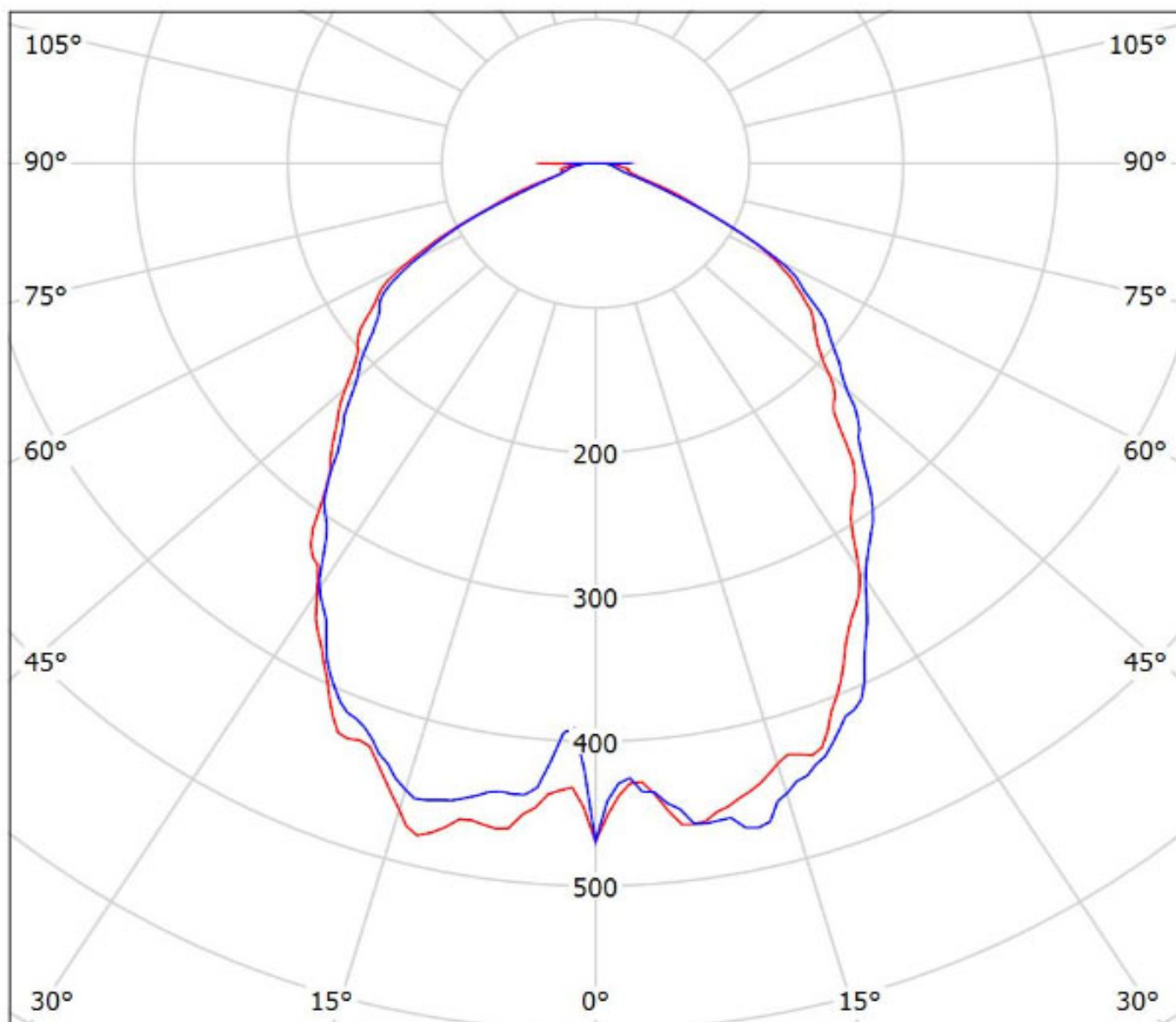
Luminaire: Ledil Oy CS16324\_STRADELLA-IP-28-HB-W\_(Oslon SSL 150)\_SIMULATED  
Lamps: 1 x Osram Oslon SSL 150 (GW\_CSHPM1pm)



Valaisin: Ledil Oy CS16324\_STRADELLA-IP-28-HB-W\_(Seoul Z8Y22)\_SIMULATED  
Lamput: 1 x Seoul Z8Y22 (100lm)



Valaisin: Ledil Oy CS16324\_STRADELLA-IP-28-HB-W\_(Cree XT-E)\_SIMULATED  
Lamput: 1 x Cree XT-E (100lm)

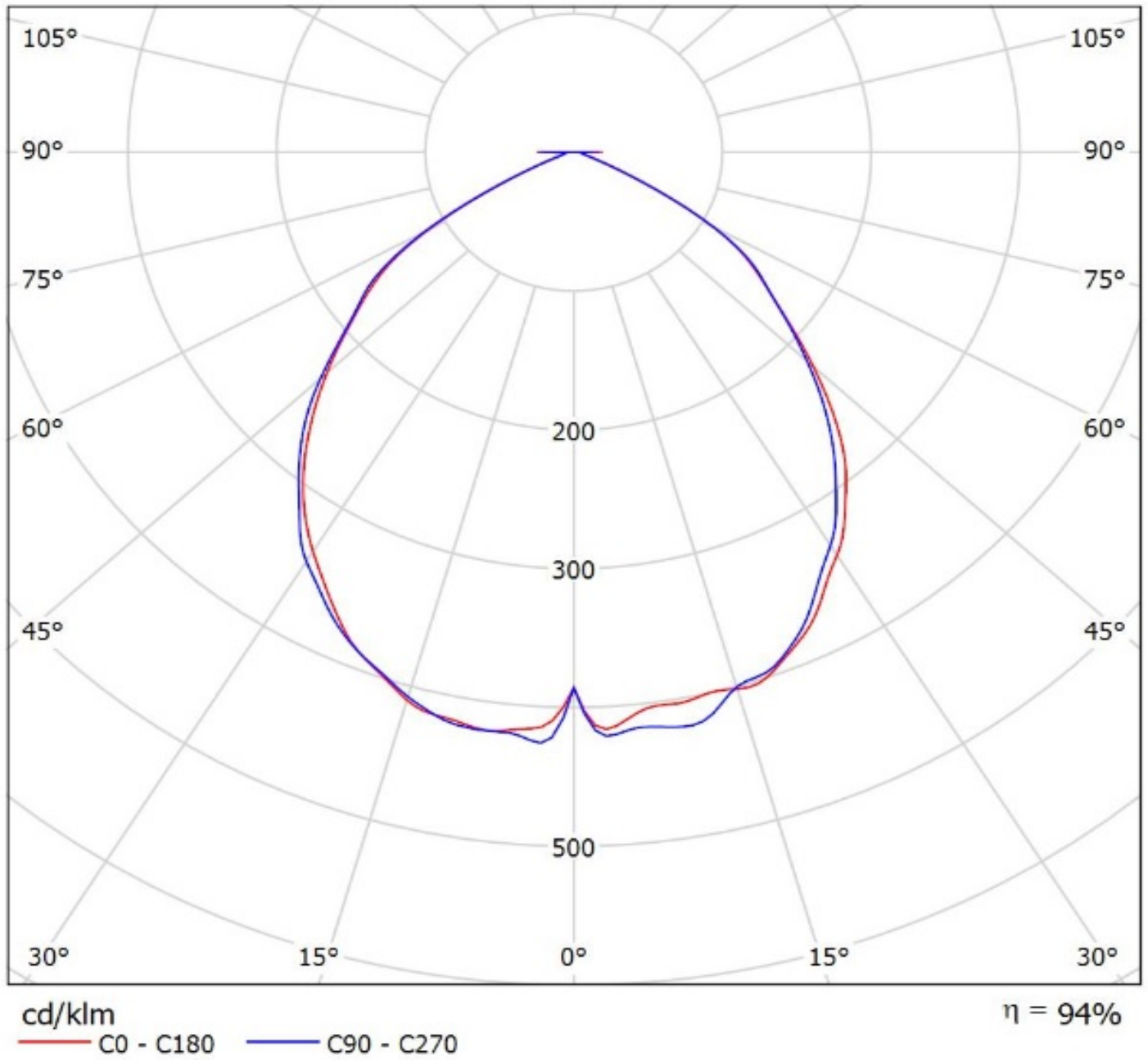


cd/klm

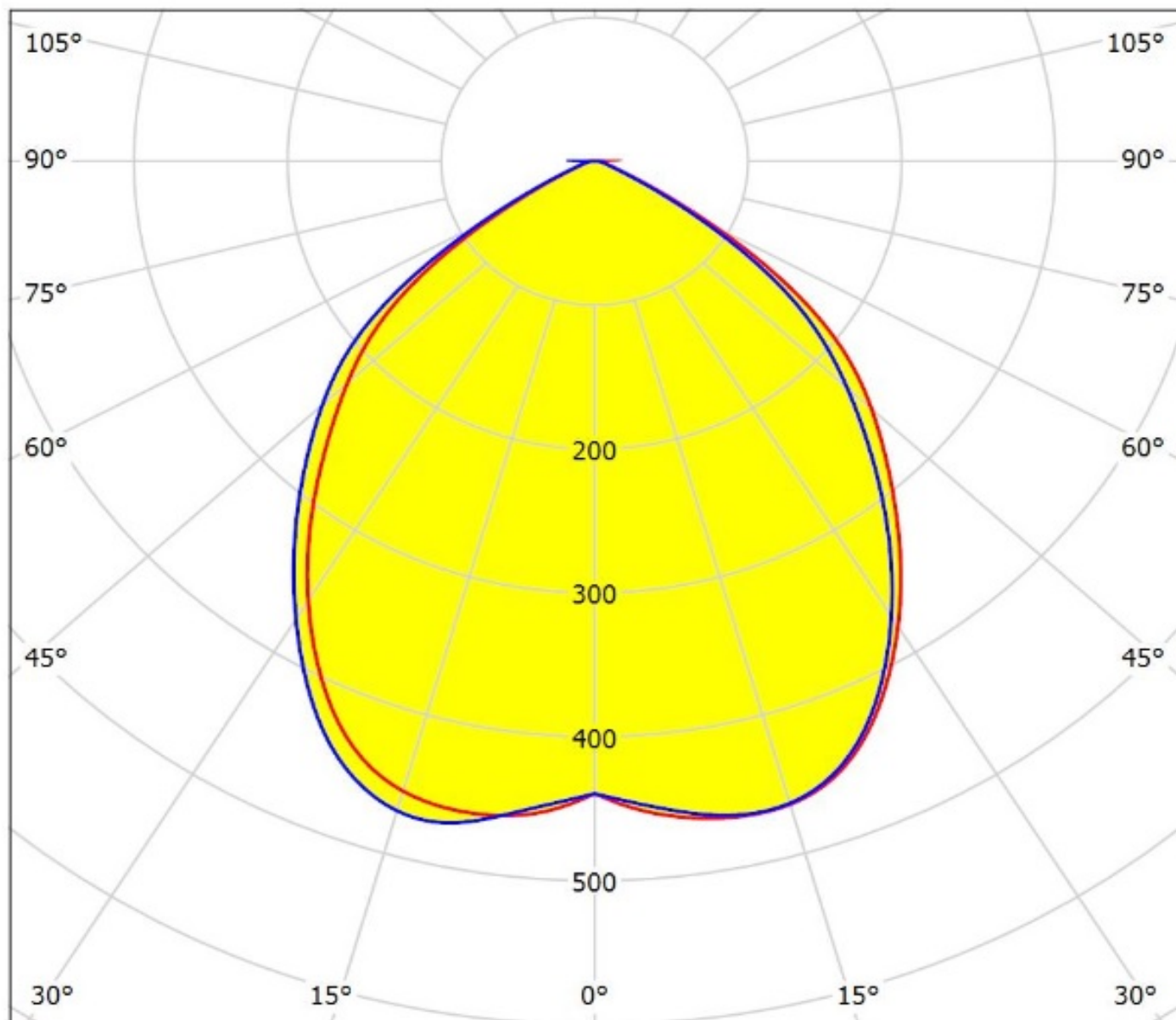
— C0 - C180 — C90 - C270

$\eta = 100\%$

Luminaire: Ledil Oy CS16324\_STRADELLA-IP-28-HB-W\_(XP-G3)\_SIMULATED  
Lamps: 1 x Cree XP-G3



Luminaire: Ledil Oy CS16324\_STRADELLA-IP-28-HB-W\_(J\_Series\_3030\_-\_JK3030\_3V)\_SIMULATED  
Lamps: 1 x Cree JK3030 3V

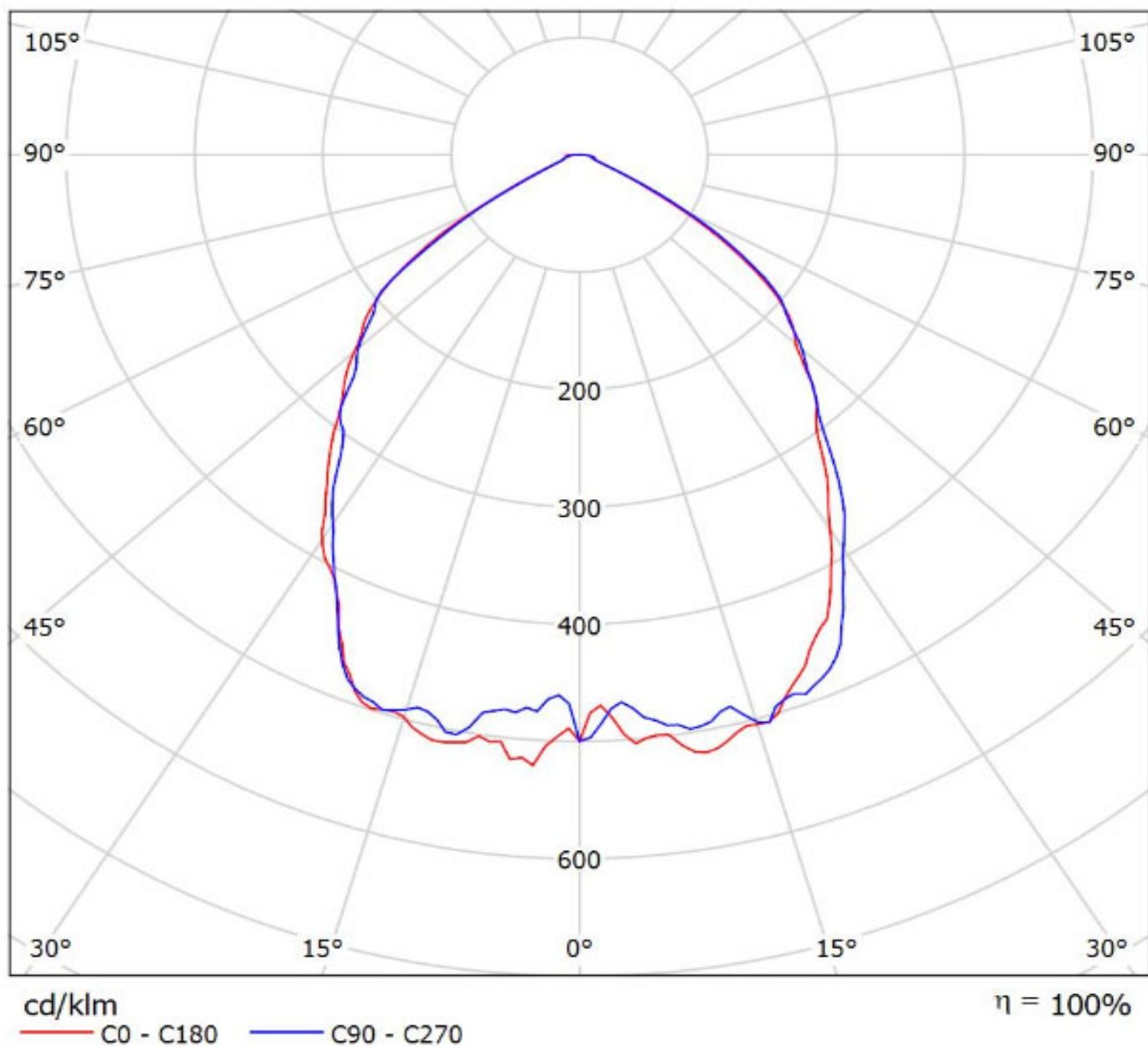


cd/klm

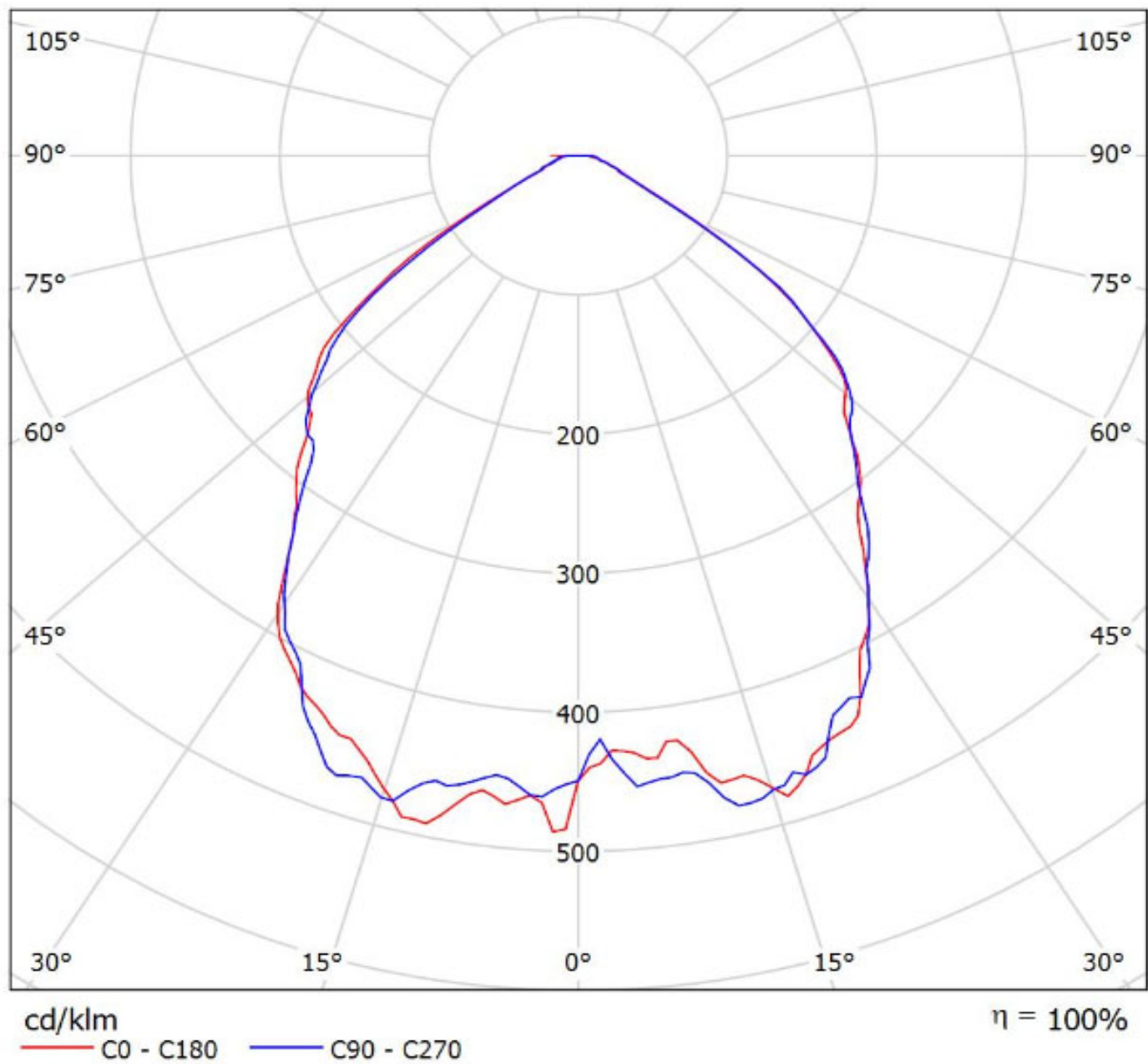
— C0 - C180 — C90 - C270

$\eta = 95\%$

Valaisin: Ledil Oy CS16324 STRADELLA-IP-28-HB-W\_(Luxeon 3030 2D)\_SIMULATED  
Lamput: 1 x LUXEON 3030 2D (100lm)

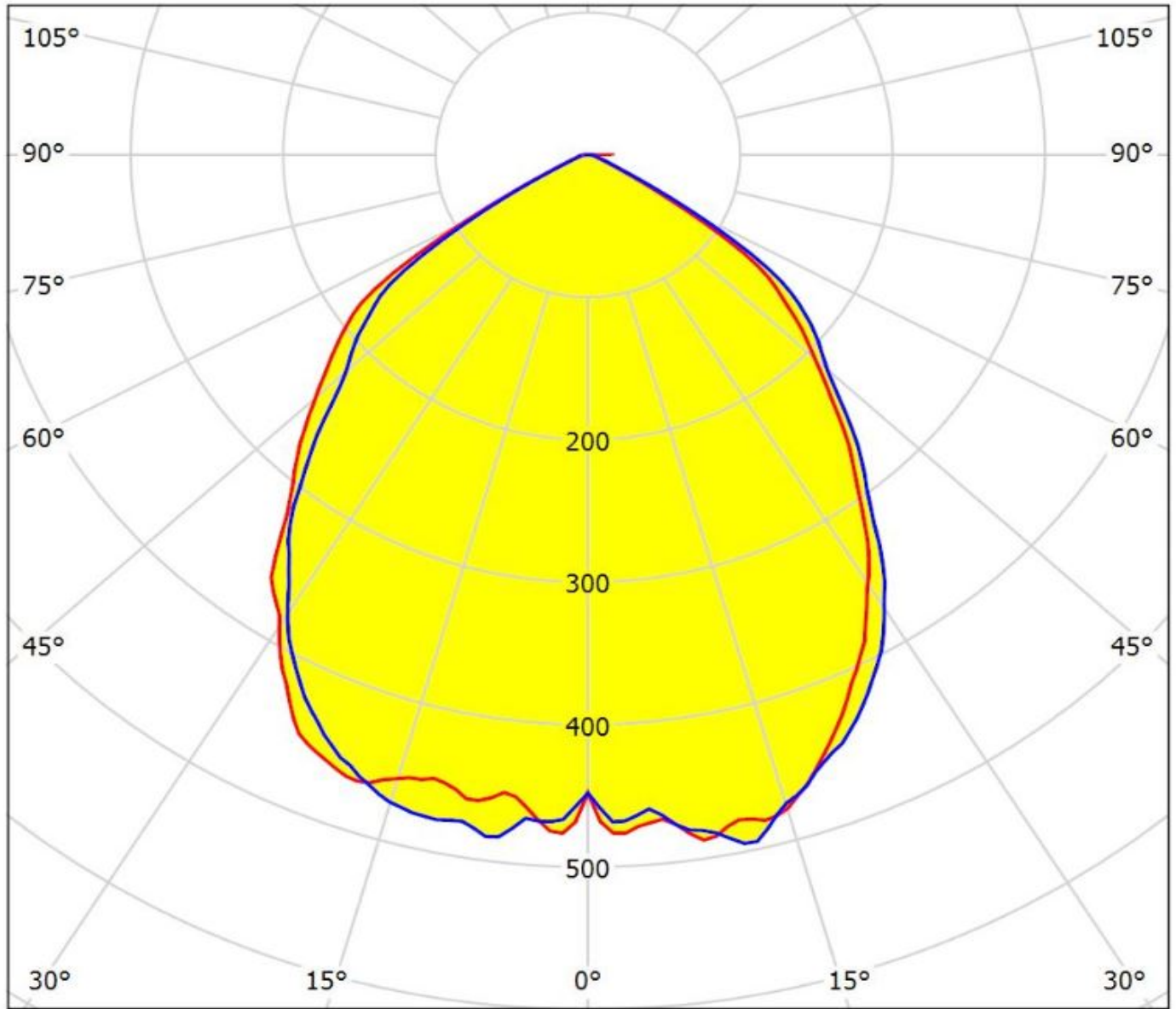


Valaisin: Ledil Oy CS16324\_STRADELLA-IP-28-HB-W\_(Nichia NVSLE21A)\_SIMULATED  
Lamput: 1 x Nichia NVSLE21A (100lm)





Luminaire: Ledil Oy SIMULATION SIMULATION  
Lamps: 1 x SIMULATION - 1.00 W

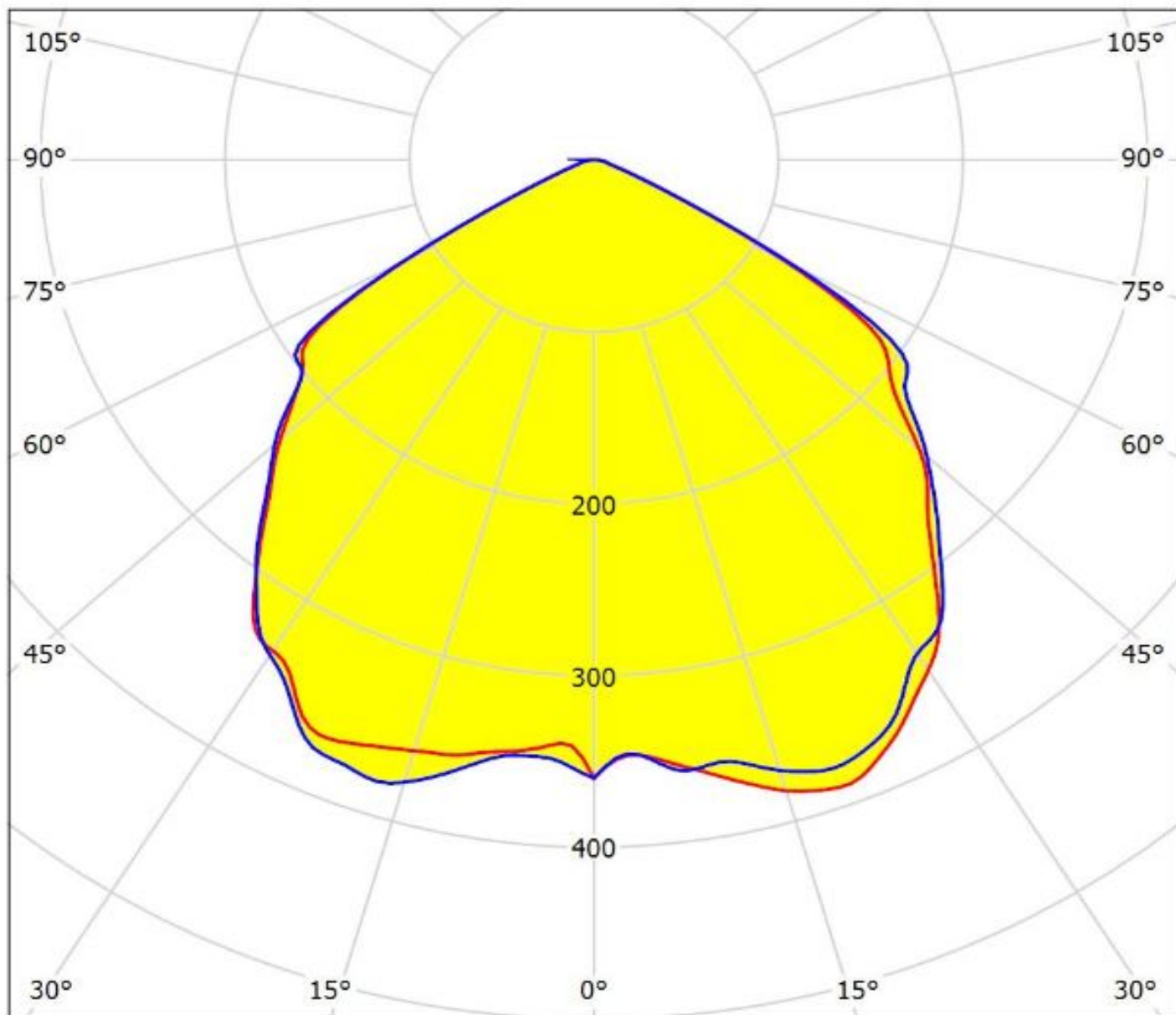


cd/klm

— C0 - C180    — C90 - C270

$\eta = 96\%$

Luminaire: Ledil Oy CS16324\_STRADELLA-IP-28-HB-W\_(Oslon SSL 150)\_SIMULATED  
Lamps: 1 x Osram Oslon SSL 150 (GW\_CSHPM1pm)

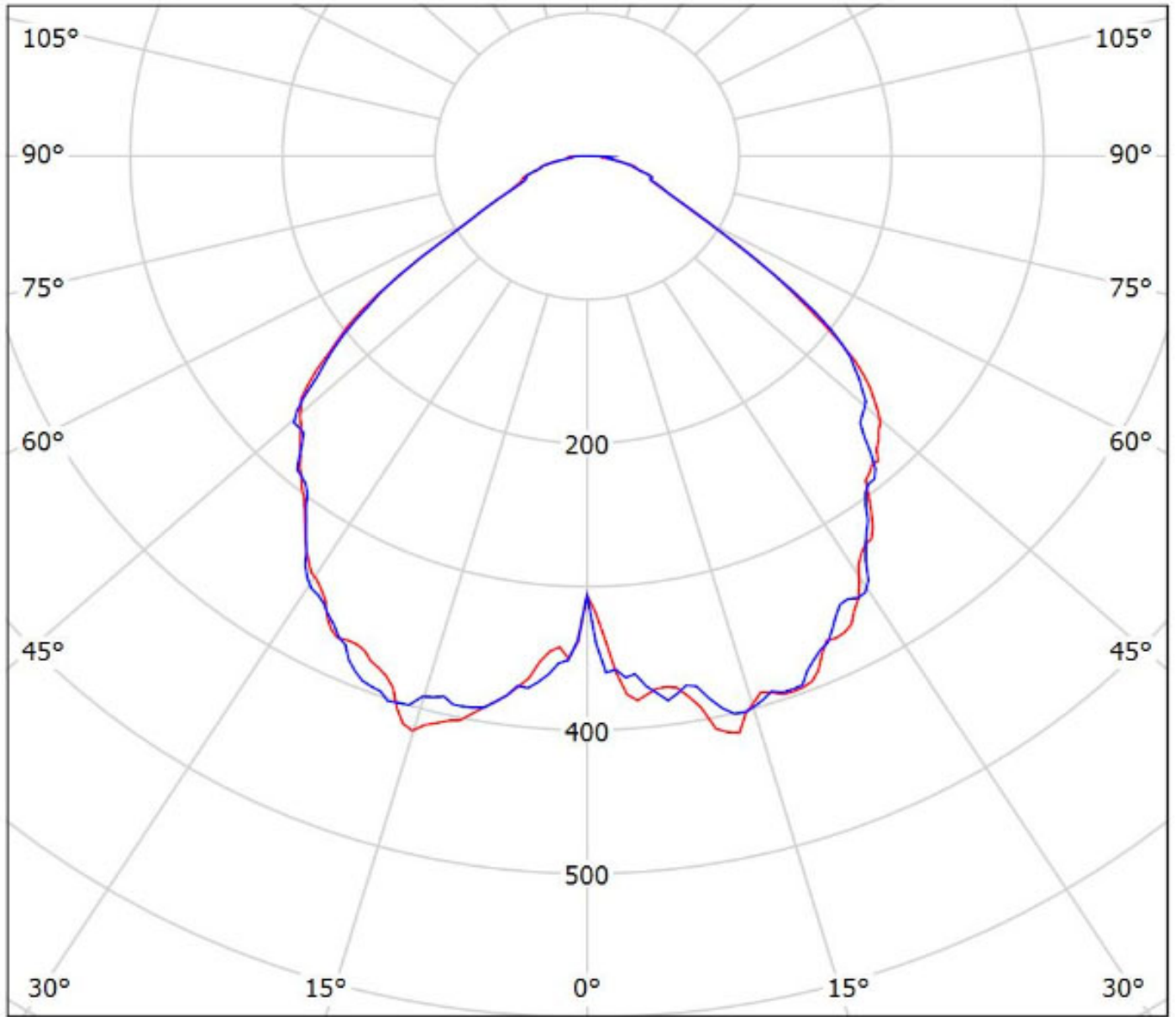


cd/klm

— C0 - C180 — C90 - C270

η = 95%

Valaisin: Ledil Oy CS16324\_STRADELLA-IP-28-HB-W\_(Seoul Z8Y22)\_SIMULATED  
Lamput: 1 x Seoul Z8Y22 (100lm)



cd/klm

— C0 - C180 — C90 - C270

$\eta = 100\%$

**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.**