

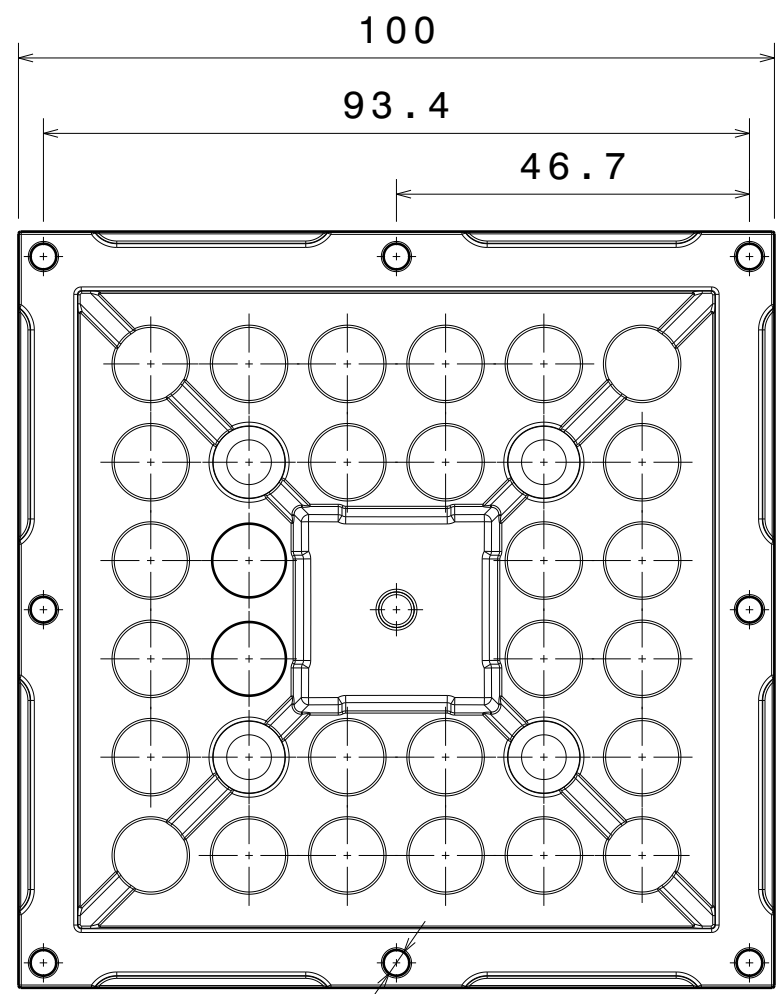
## DETAILS

|                        |                              |
|------------------------|------------------------------|
| <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>          | production ready             |
| <b>ROHS Compliant</b>  | Yes                          |
| <b>Date Updated</b>    | 1/02/2018                    |

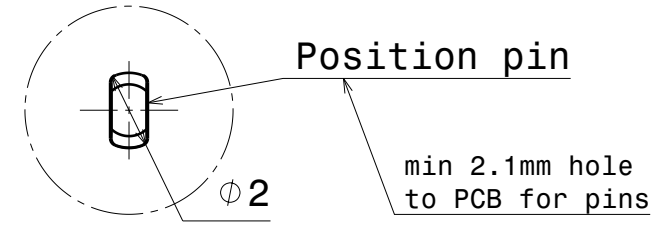
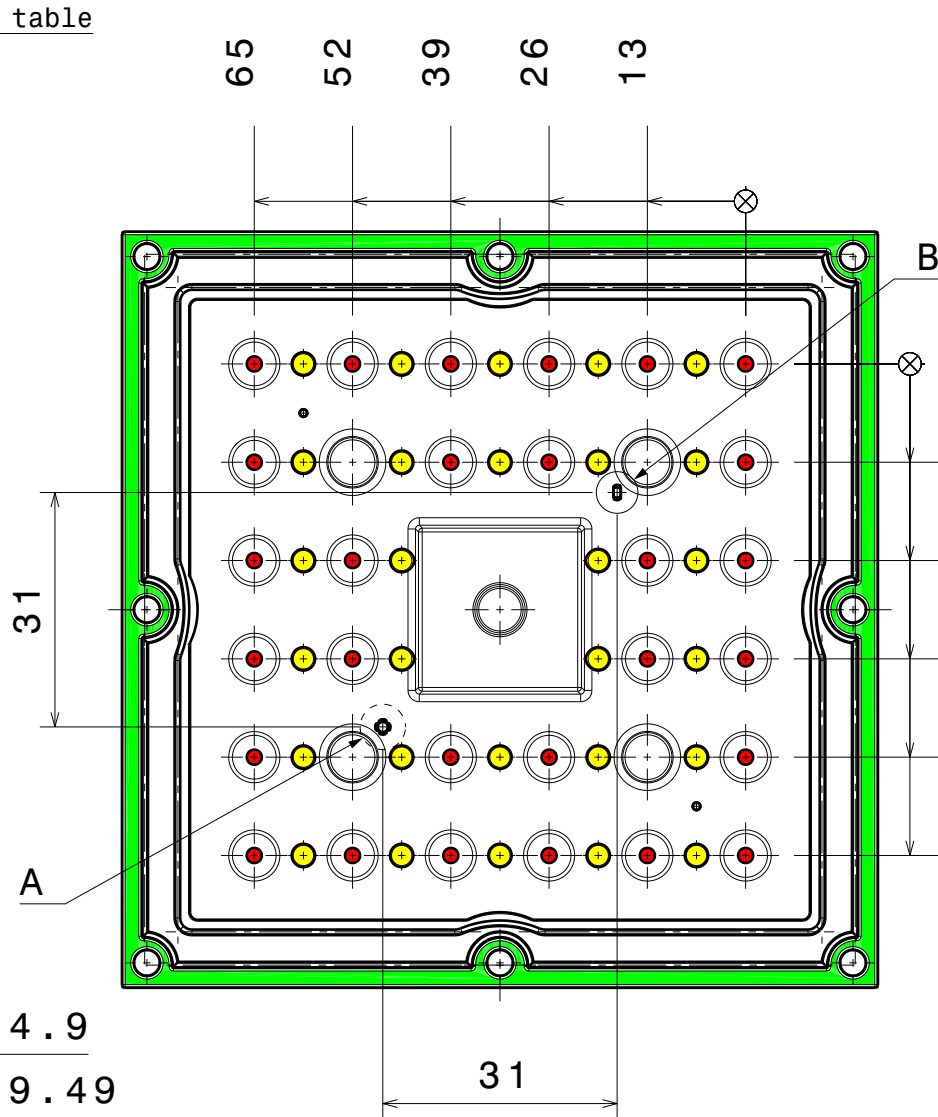
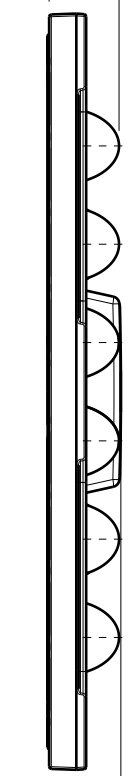
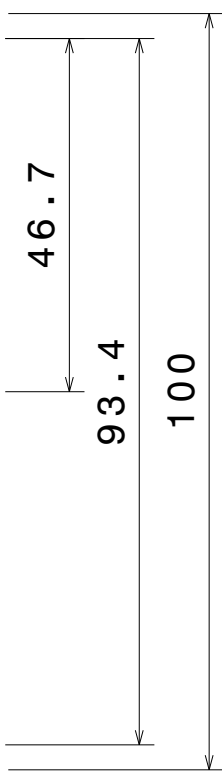


## OPTICAL PROPERTIES

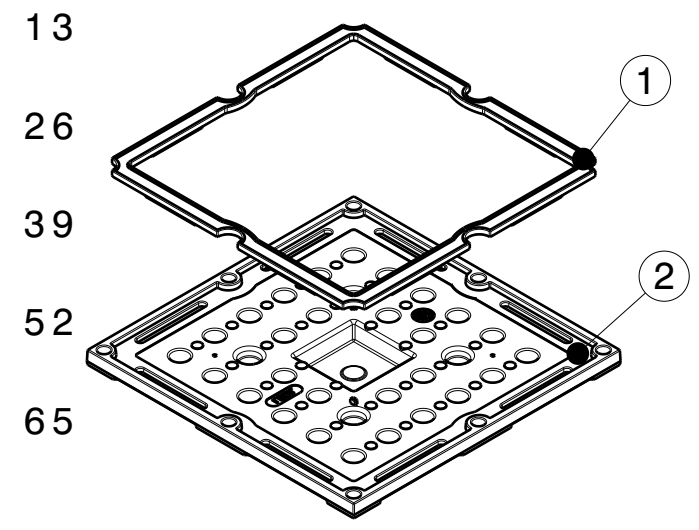
| LED               | Viewing<br>Angle | Light<br>Beam | Effi-<br>ciency | cd/lm      | Connector |
|-------------------|------------------|---------------|-----------------|------------|-----------|
| XT-E              | 89 deg           | HighBay       | 94 %            | 0.470      | -         |
| 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 | -         |



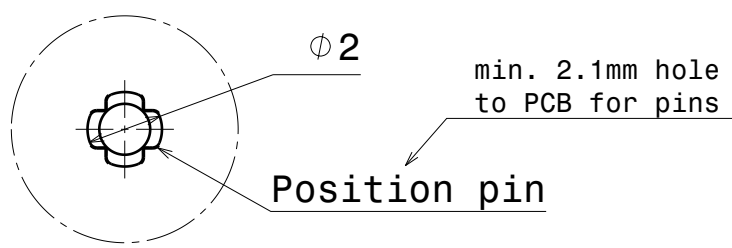
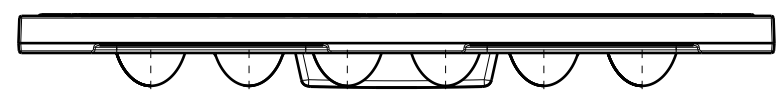
See Code table  
Height (9.25)



Detail B  
Scale: 5:1

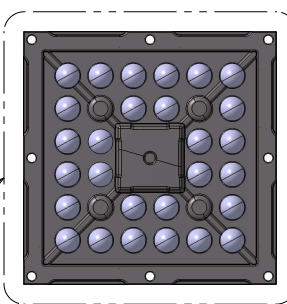
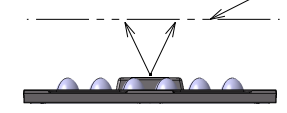


Isometric exploded view  
Scale: 1:2



Detail A  
Scale: 5:1

Light pattern direction



Light pattern direction

### 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.                                      |                          |

### 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

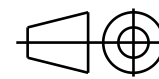
| INDEX | PRODUCT                  | TYPE   | MATERIAL       | COLOUR |
|-------|--------------------------|--------|----------------|--------|
| 1     | C15900_STRADELLA-28-SEAL | GASKET | SILICONE       | white  |
| 2     | See Code table           | LENS   | See code table | clear  |

### 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

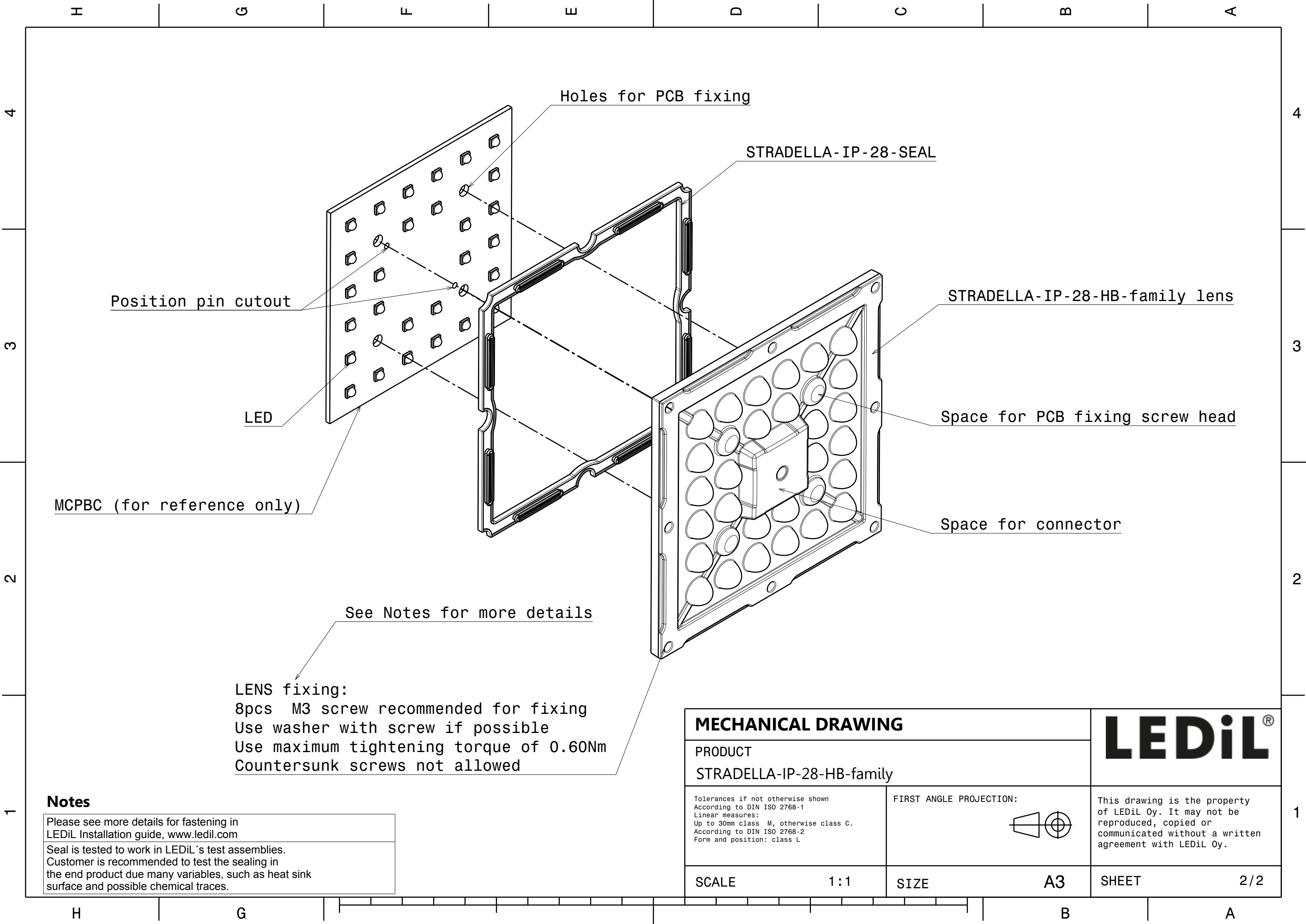
FIRST ANGLE PROJECTION:



# LEDiL®

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|       |     |      |    |       |     |
|-------|-----|------|----|-------|-----|
| SCALE | 1:1 | SIZE | A3 | SHEET | 1/2 |
|-------|-----|------|----|-------|-----|



Position pin cutout

Holes for PCB fixing

STRADELLA-IP-28-SEAL

STRADELLA-IP-28-HB-family lens

Space for PCB fixing screw head

Space for connector

LED

MCPBC (for reference only)

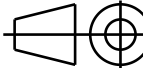
See Notes for more details

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

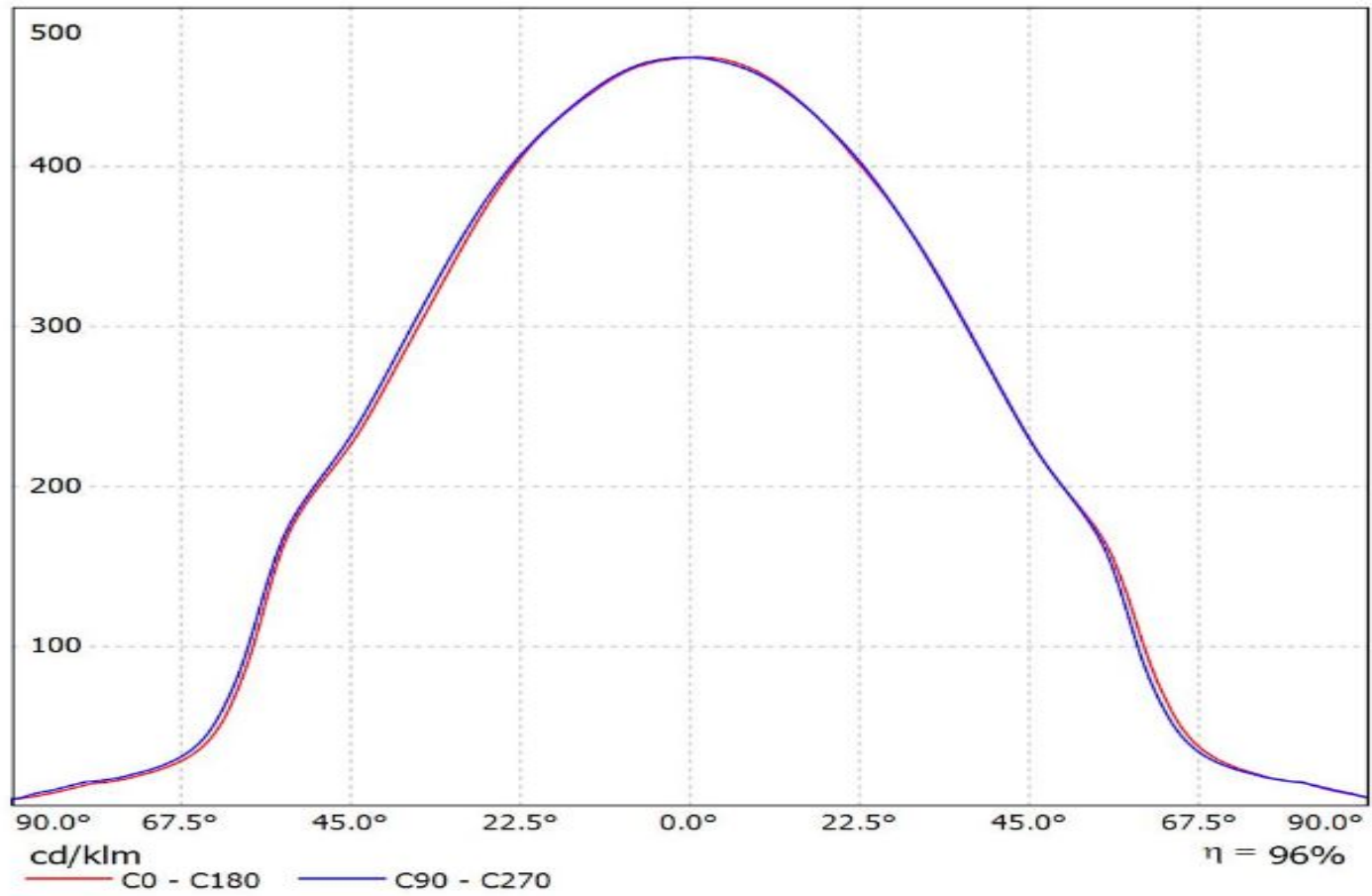
Notes

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

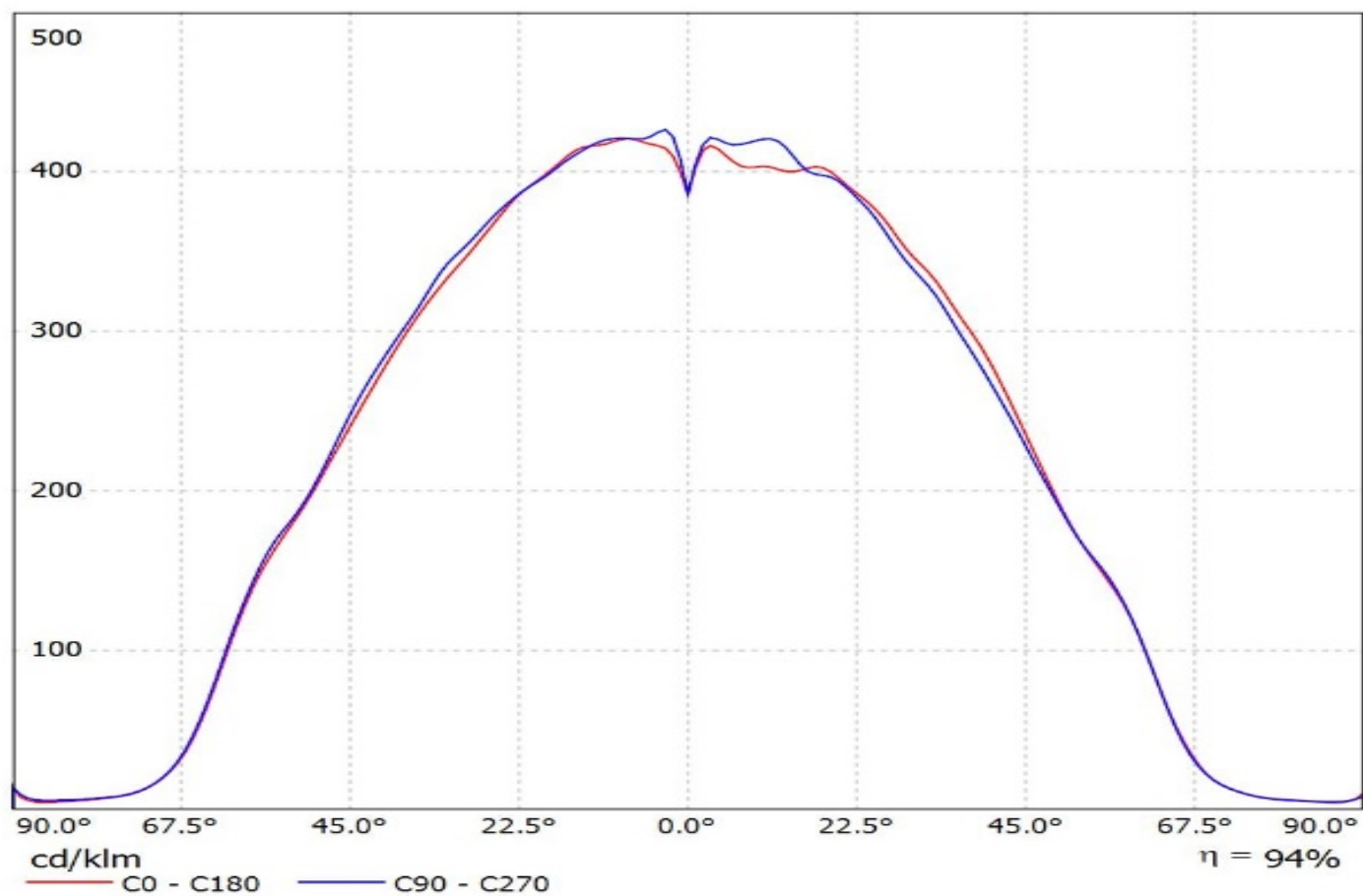
Seal is tested to work in LEDiL's test assemblies. Customer is recommended to test the sealing in the end product due many variables, such as heat sink surface and possible chemical traces.

| MECHANICAL DRAWING                                                                                                                                                                          |                                                                                                                  | LEDiL <sup>®</sup>                                                                                                                    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| PRODUCT<br>STRADELLA-IP-28-HB-family                                                                                                                                                        |                                                                                                                  |                                                                                                                                       |
| Tolerances if not otherwise shown<br>According to DIN ISO 2768-1<br>Linear measures:<br>Up to 30mm class M, otherwise class C.<br>According to DIN ISO 2768-2<br>Form and position: class L | FIRST ANGLE PROJECTION:<br> | This drawing is the property of LEDiL Oy. It may not be reproduced, copied or communicated without a written agreement with LEDiL Oy. |
| SCALE<br>1 : 1                                                                                                                                                                              | SIZE<br>A3                                                                                                       | SHEET<br>2 / 2                                                                                                                        |

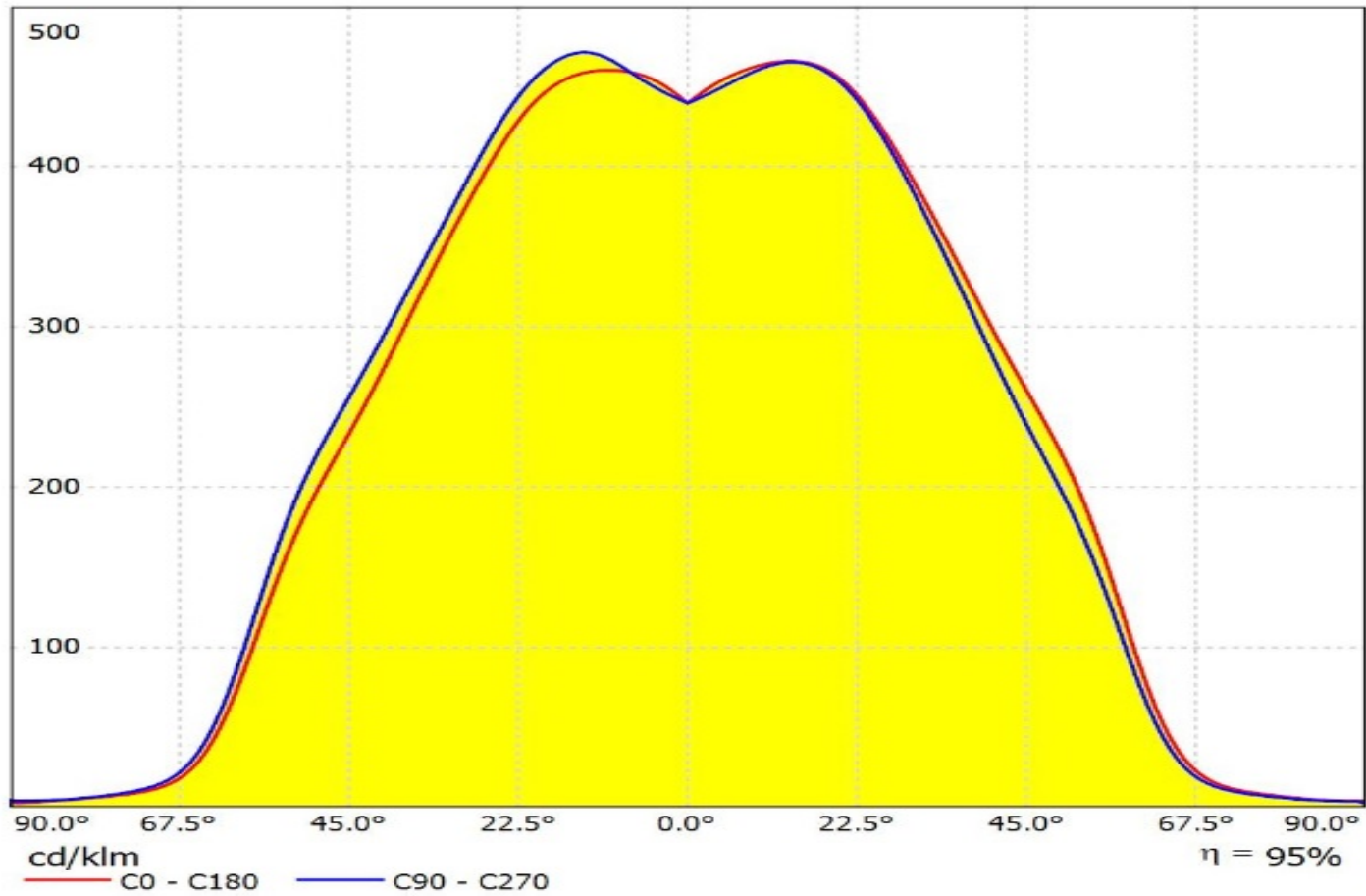
Luminaire: Ledil CS16324\_STRADELLA-IP-28-HB-W\_(XT-E)  
Lamps: 1 x Cree\_XT-E\_Stradella-28\_1799.55lm@250mA\_P=9.51044W\_U=38.057V



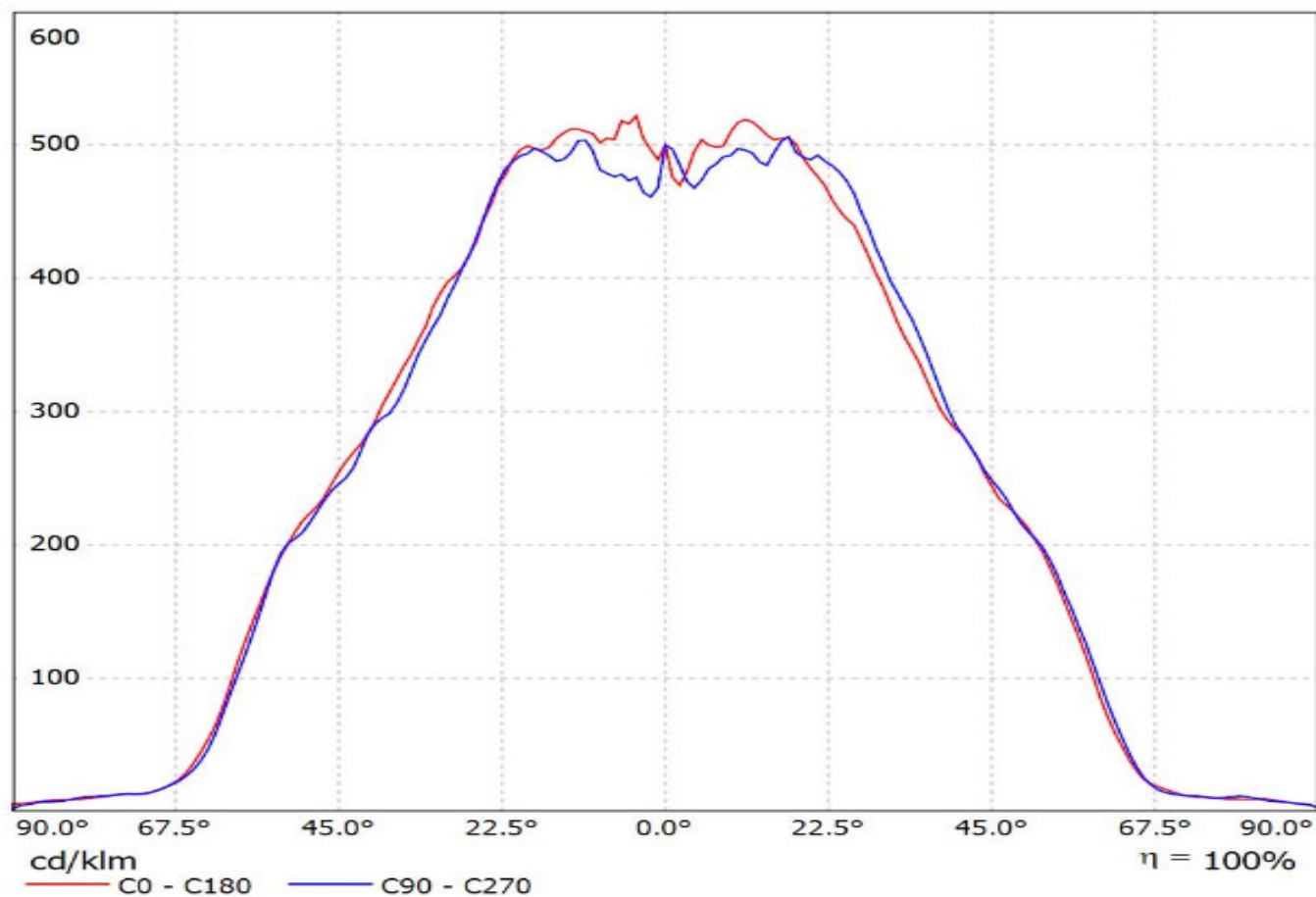
Luminaire: Ledil Oy CS16324\_STRADELLA-IP-28-HB-W\_(XP-G3)\_SIMULATED  
Lamps: 1 x Cree XP-G3



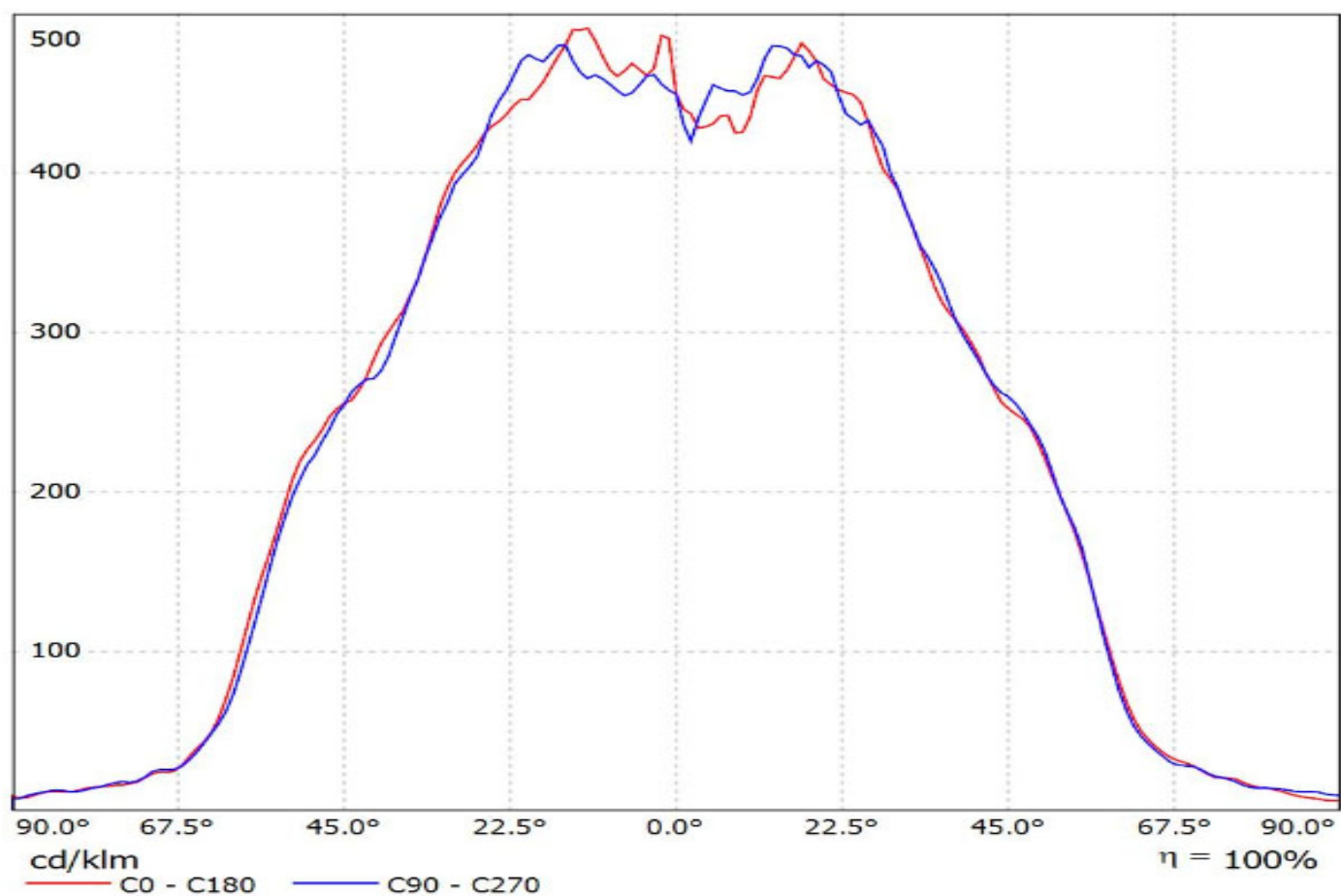
Luminaire: Ledil Oy CS16324\_STRADELLA-IP-28-HB-W\_(J\_Series\_3030\_-\_JK3030\_3V)\_SIMULATED  
Lamps: 1 x Cree JK3030 3V



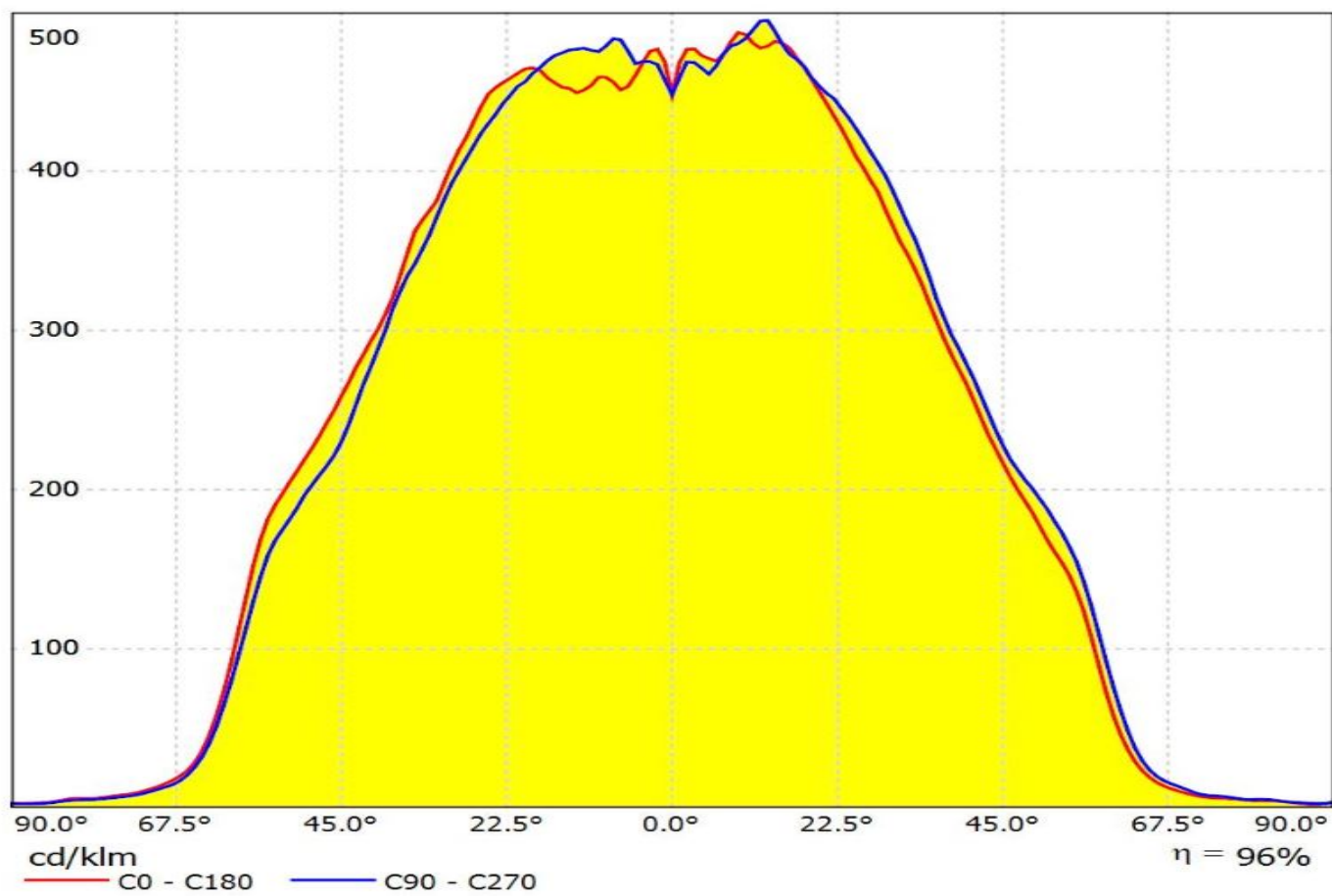
Valaisin: Ledil Oy CS16324 STRADELLA-IP-28-HB-W\_(Luxeon 3030 2D)\_SIMULATED  
Lamput: 1 x LUXEON 3030 2D (100lm)



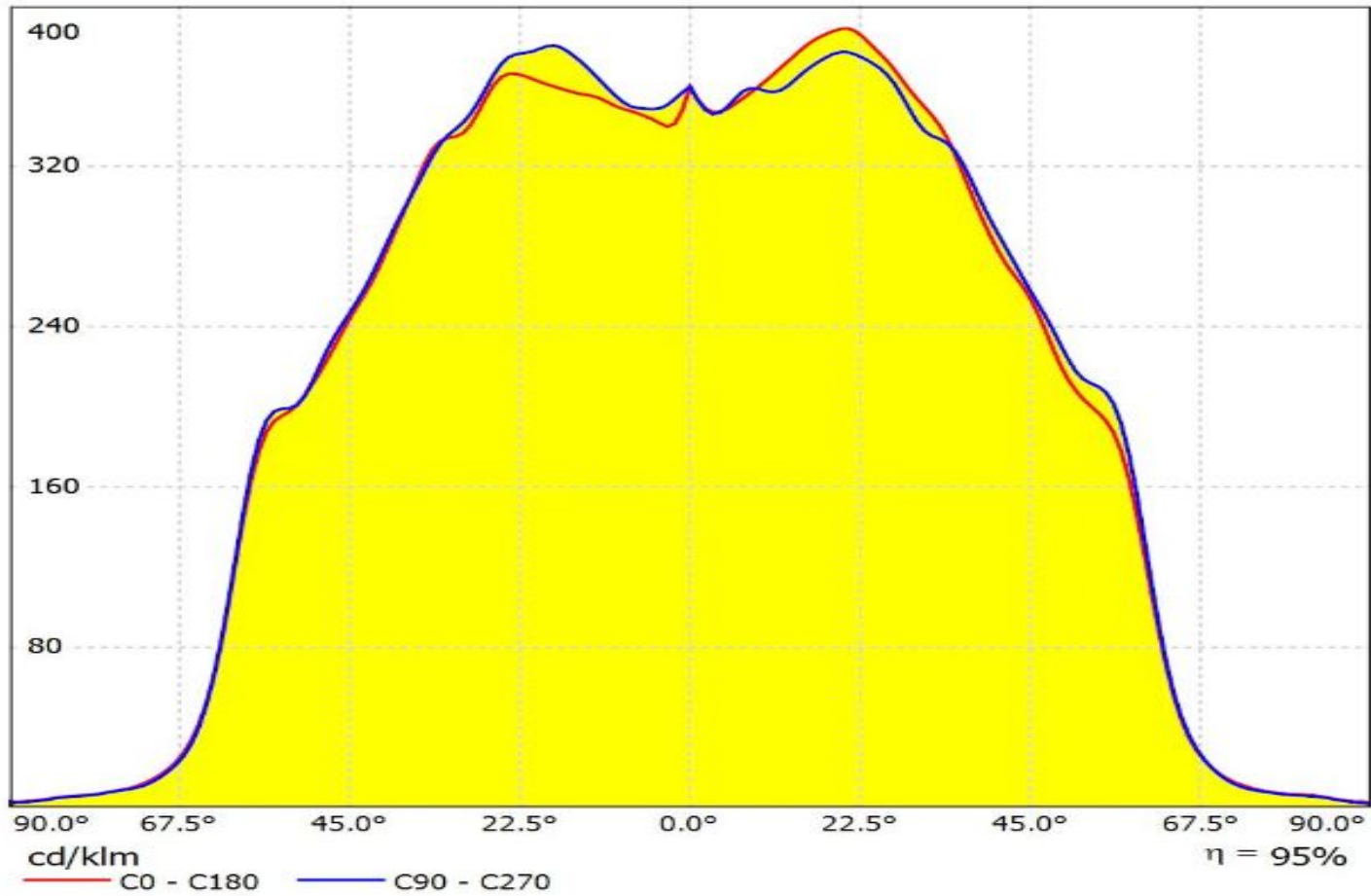
Valaisin: Ledil Oy CS16324\_STRADELLA-IP-28-HB-W\_(Nichia NVSLE21A)\_SIMULATED  
Lamput: 1 x Nichia NVSLE21A (100lm)



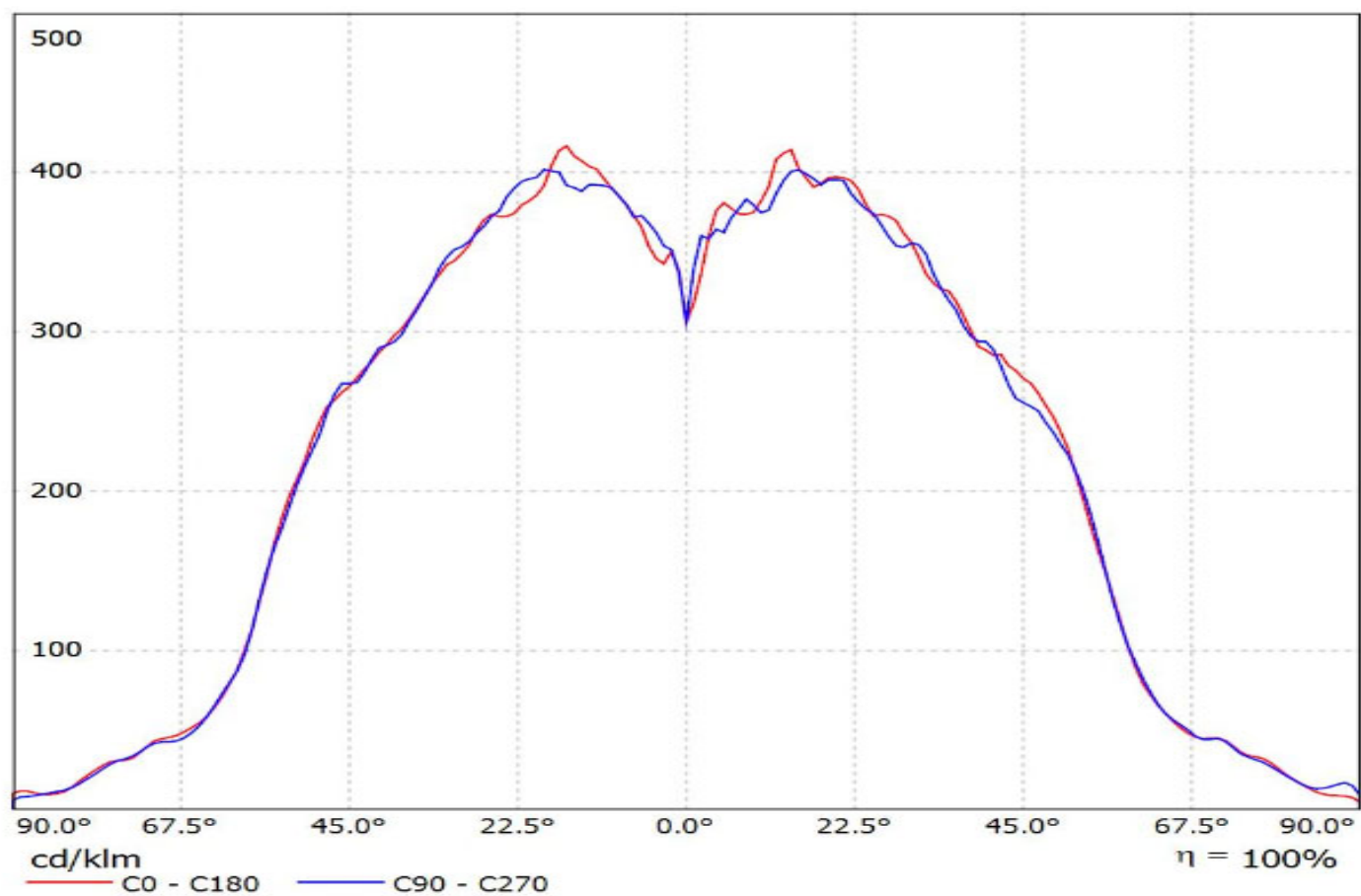
Luminaire: Ledil Oy SIMULATION SIMULATION  
Lamps: 1 x SIMULATION - 1.00 W



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

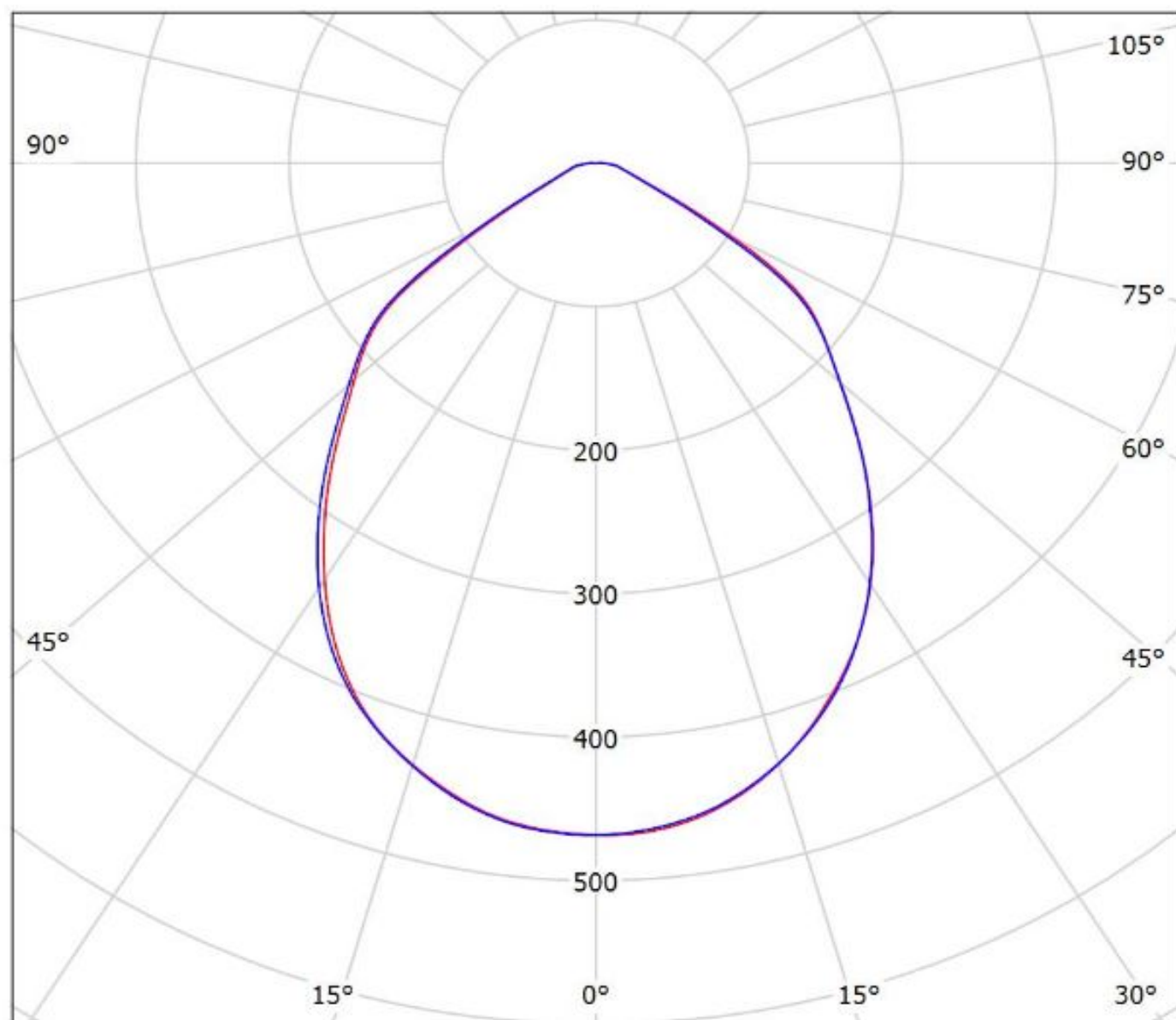


Valaisin: Ledil Oy CS16324\_STRADELLA-IP-28-HB-W\_(Seoul Z8Y22)\_SIMULATED  
Lamput: 1 x Seoul Z8Y22 (100lm)



Luminaire: Ledil CS16324\_STRADELLA-IP-28-HB-W\_(XT-E)

Lamps: 1 x Cree\_XT-E\_Stradella-28\_1799.55lm@250mA\_P=9.51044W\_U=38.057V



cd/klm

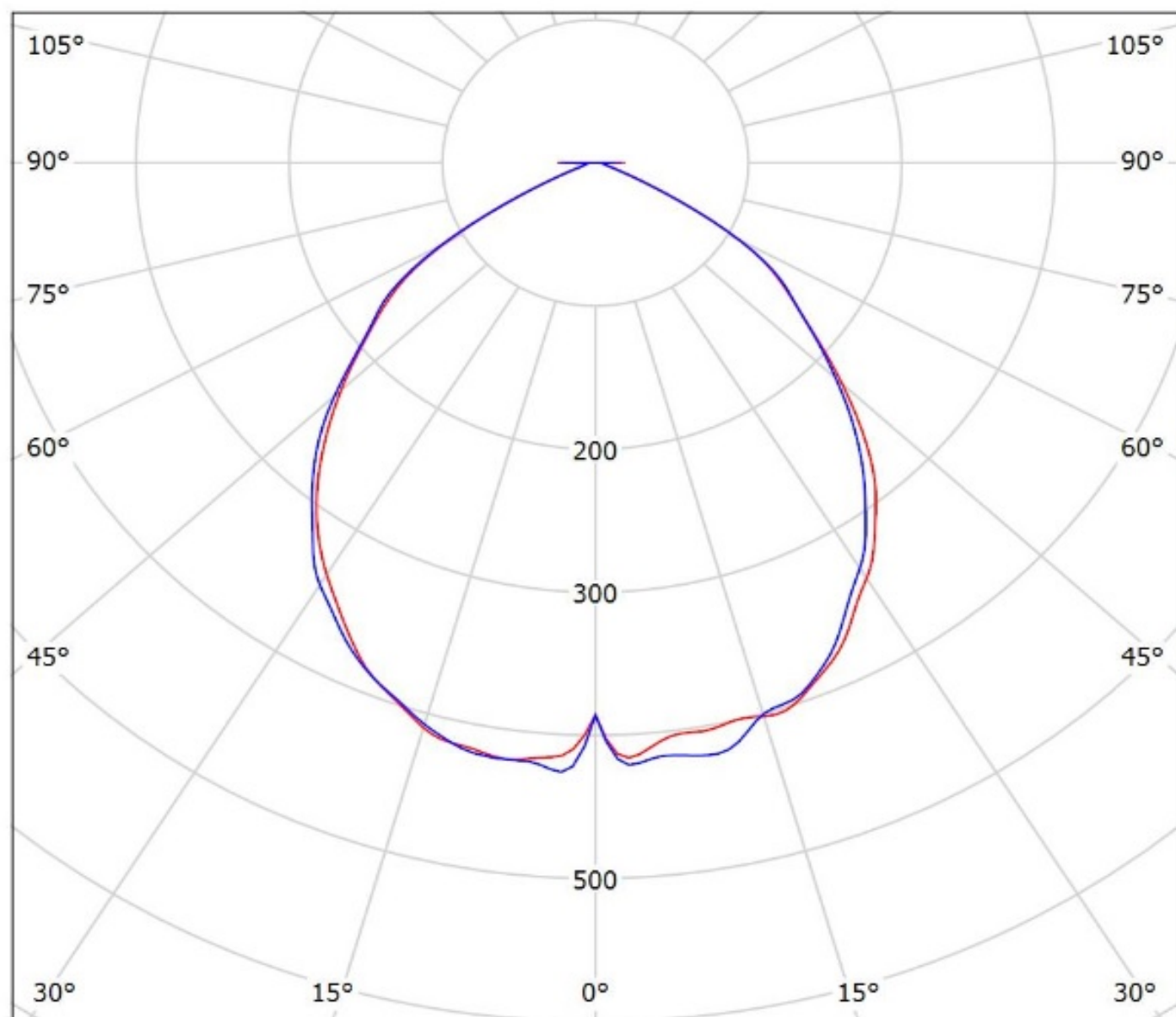
— C0 - C180

— C90 - C270

$\eta = 96\%$

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

Lamps: 1 x Cree XP-G3

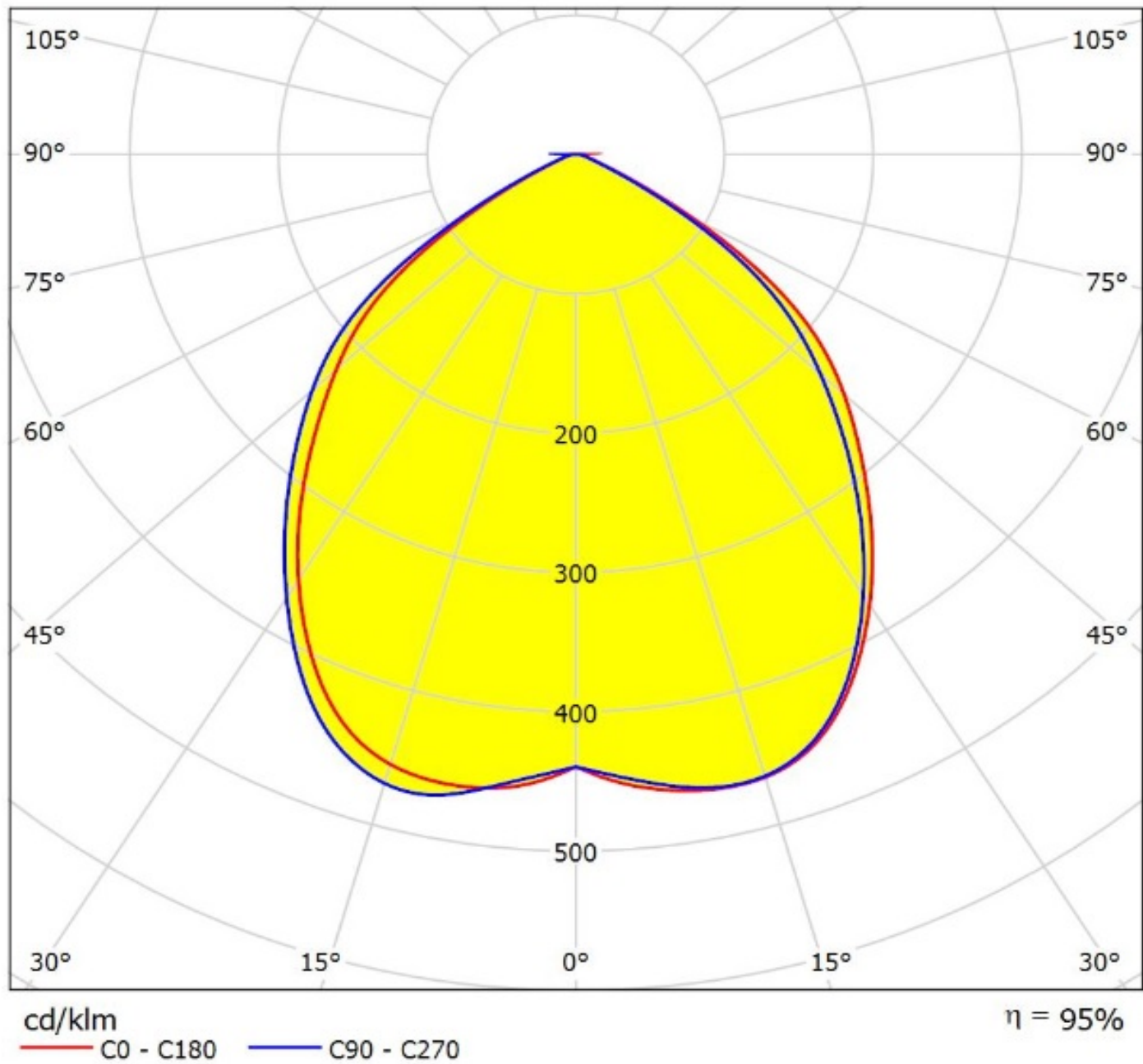


cd/klm

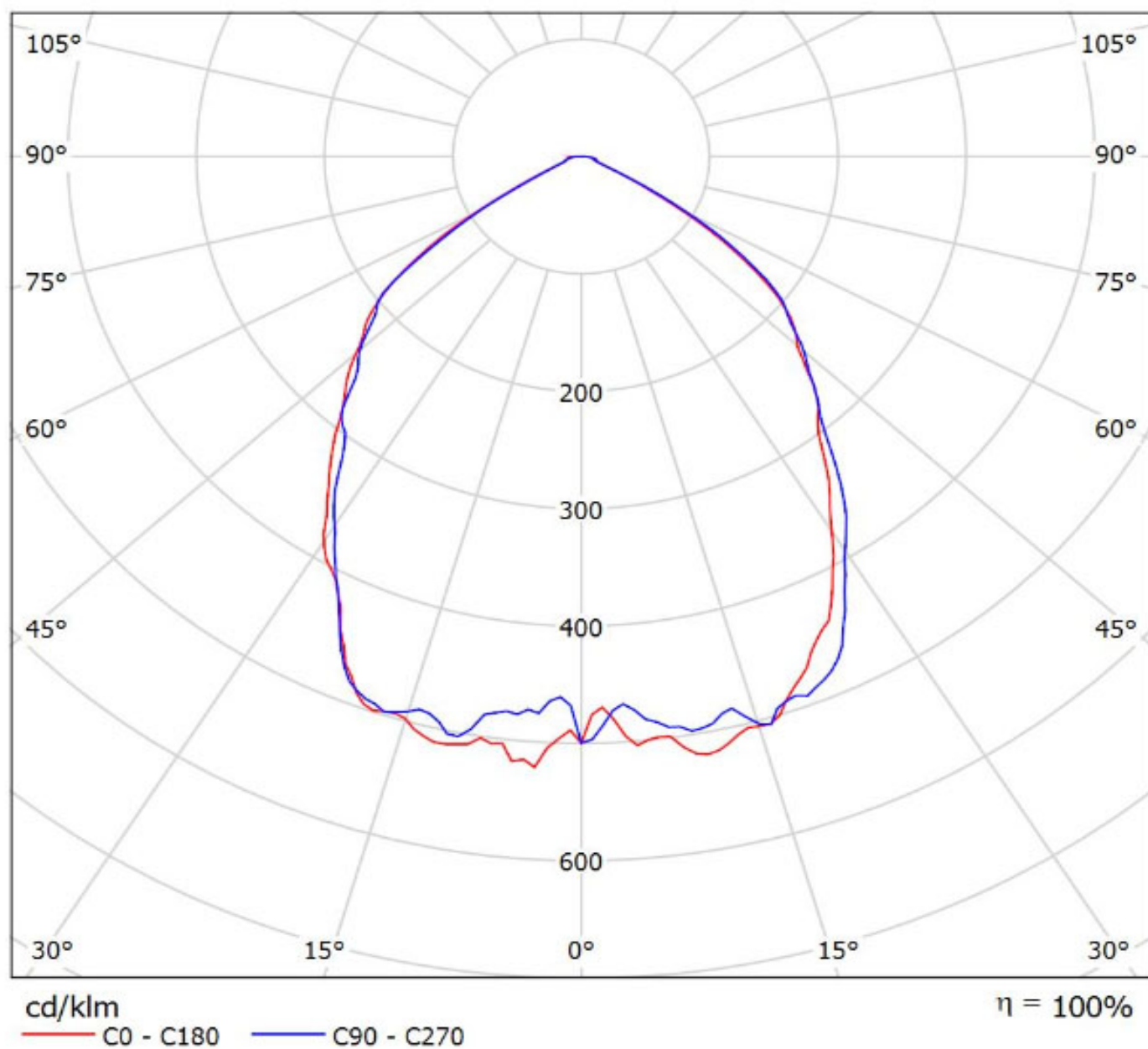
— C0 - C180 — C90 - C270

$\eta = 94\%$

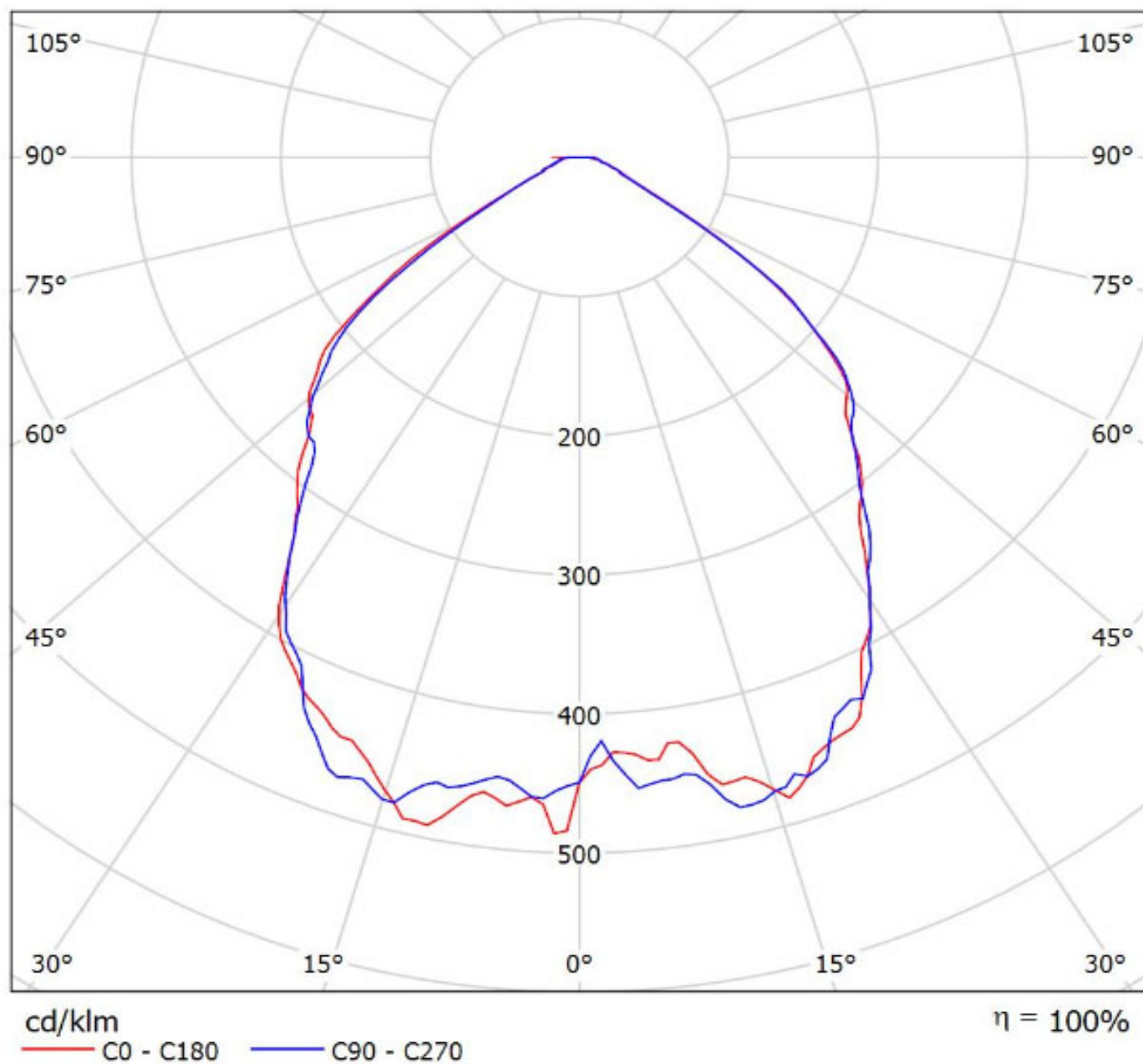
Luminaire: Ledil Oy CS16324\_STRADELLA-IP-28-HB-W\_(J\_Series\_3030\_-\_JK3030\_3V)\_SIMULATED  
Lamps: 1 x Cree JK3030 3V



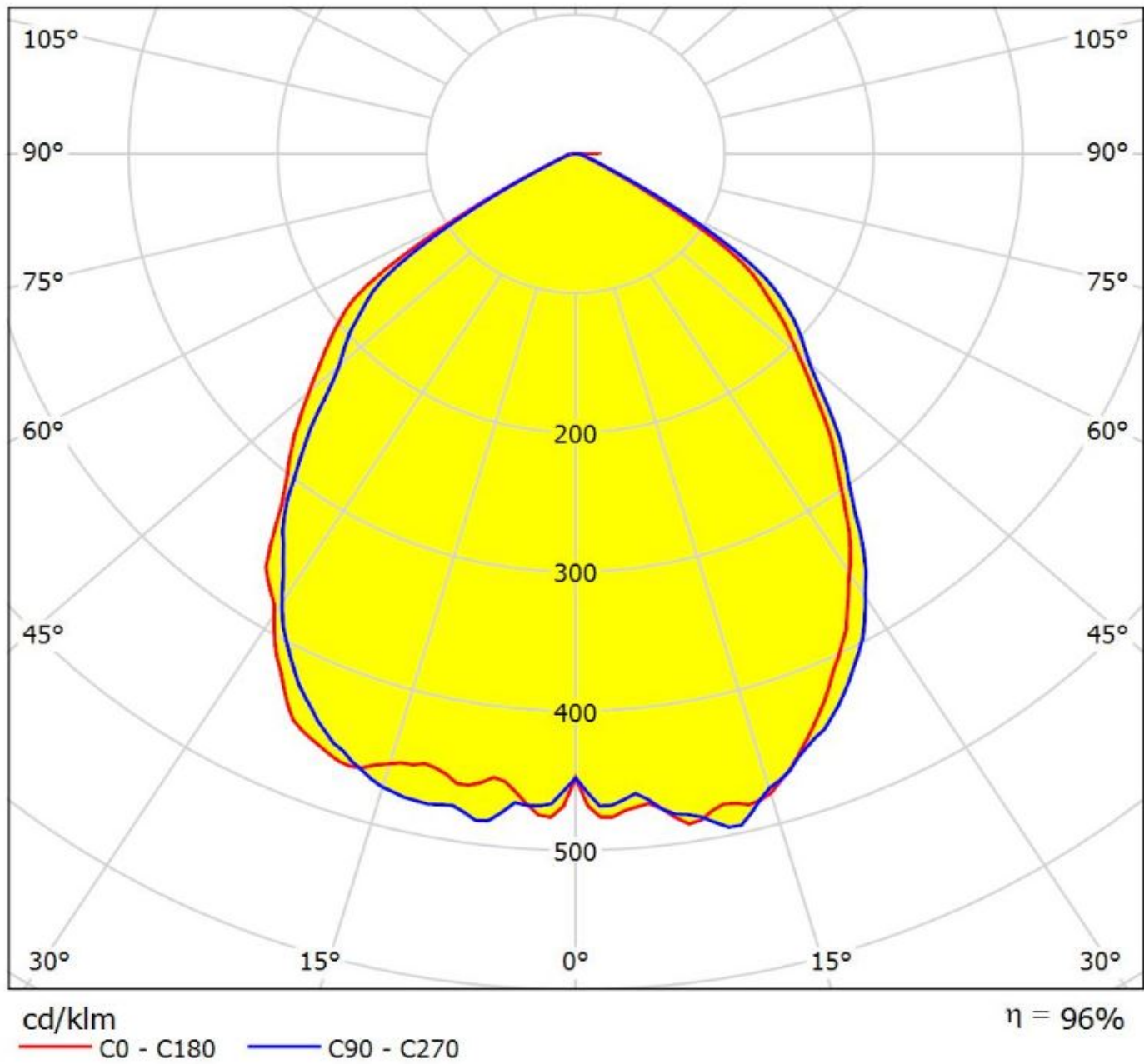
Valaisin: Ledil Oy CS16324\_STRADELLA-IP-28-HB-W\_(Luxeon 3030 2D)\_SIMULATED  
Lamput: 1 x LUXEON 3030 2D (100lm)



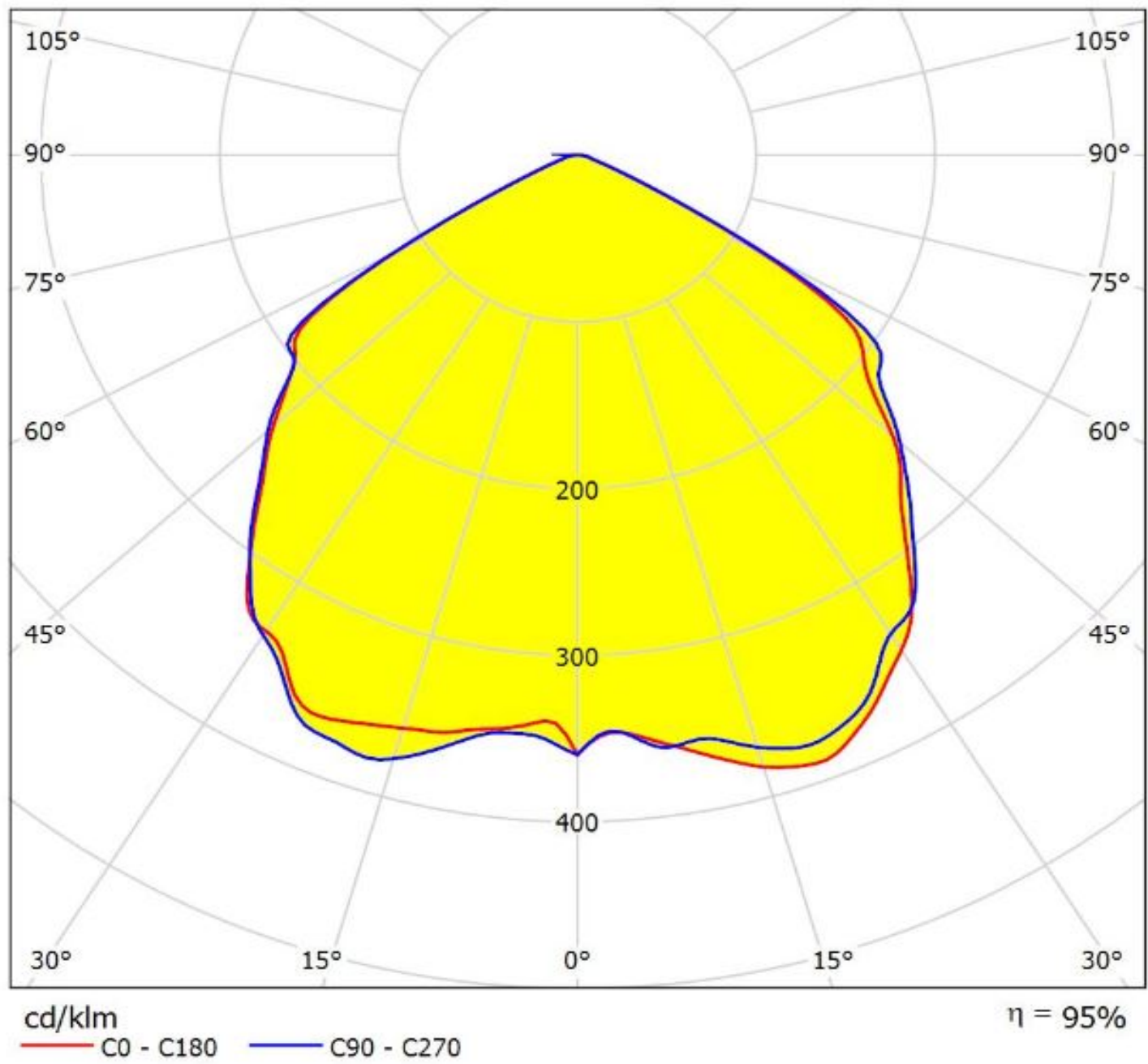
Valaisin: Ledil Oy CS16324\_STRADELLA-IP-28-HB-W\_(Nichia NVSLE21A)\_SIMULATED  
Lamput: 1 x Nichia NVSLE21A (100lm)



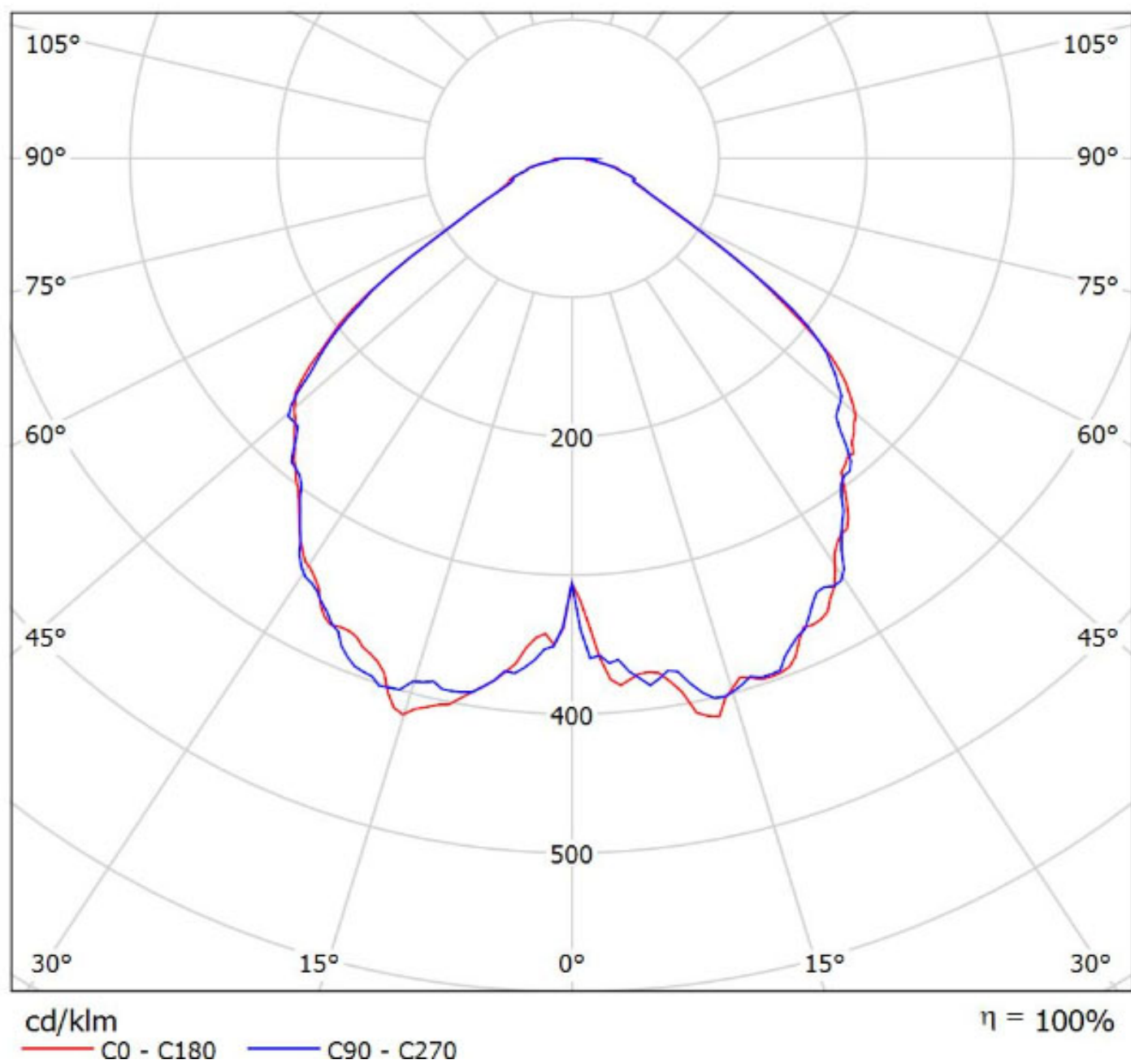
Luminaire: Ledil Oy SIMULATION SIMULATION  
Lamps: 1 x SIMULATION - 1.00 W



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)



**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.**