

## DETAILS

|                        |                       |
|------------------------|-----------------------|
| <b>Product Number</b>  | C15245_STRADELLA-HB-S |
| <b>Family</b>          | Stradella             |
| <b>Type</b>            | Lens array            |
| <b>Color</b>           | clear                 |
| <b>Diameter</b>        | 13,9+13,9 mm          |
| <b>Height</b>          | 7,5 mm                |
| <b>Style</b>           | rectang               |
| <b>Optic Material</b>  | PMMA                  |
| <b>Holder Material</b> |                       |
| <b>Fastening</b>       |                       |
| <b>Status</b>          | production ready      |
| <b>ROHS Compliant</b>  | Yes                   |
| <b>Date Updated</b>    | 31/01/2017            |



## OPTICAL PROPERTIES

| LED                 | Viewing | Light | Effi-     |            | Connector |
|---------------------|---------|-------|-----------|------------|-----------|
|                     | Angle   | Beam  | ciency    | cd/lm      |           |
| XT-E                | 27 deg  | Spot  | 92 %      | 1.550      | -         |
| LUXEON IR Domed 150 | sim: 23 | Spot  | sim: 92 % | sim: 0.000 | -         |
| NVSxx19B/NVSxx19C   | sim: 31 | Spot  | sim: 93 % | sim: 1.600 | -         |
| NVSW219D            | 32 deg  | Spot  | 94 %      | 1.700      | -         |
| LH351B              | sim: 32 | Spot  | sim: 90 % | sim: 1.650 | -         |
| Z5M1/Z5M2           | sim: 27 | Spot  | sim: 94 % | sim: 2.000 | -         |

4

3

2

1

D

C

B

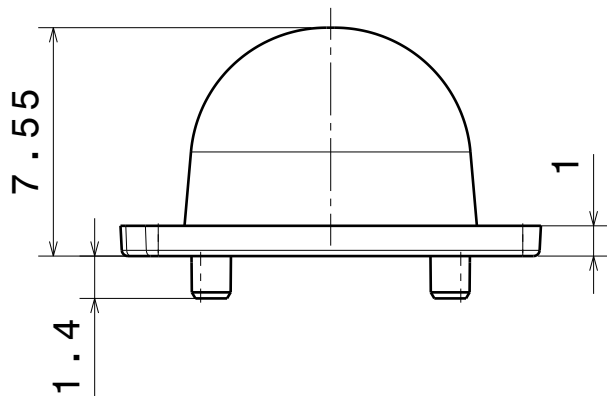
A

4

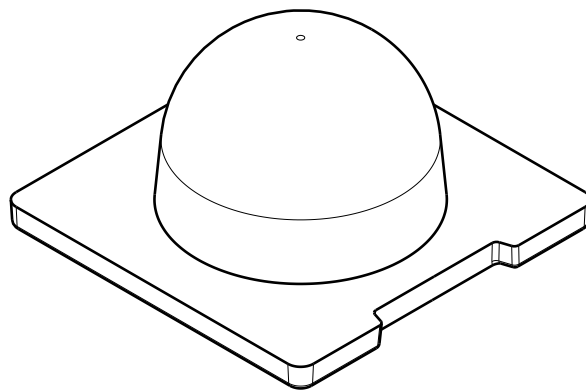
3

2

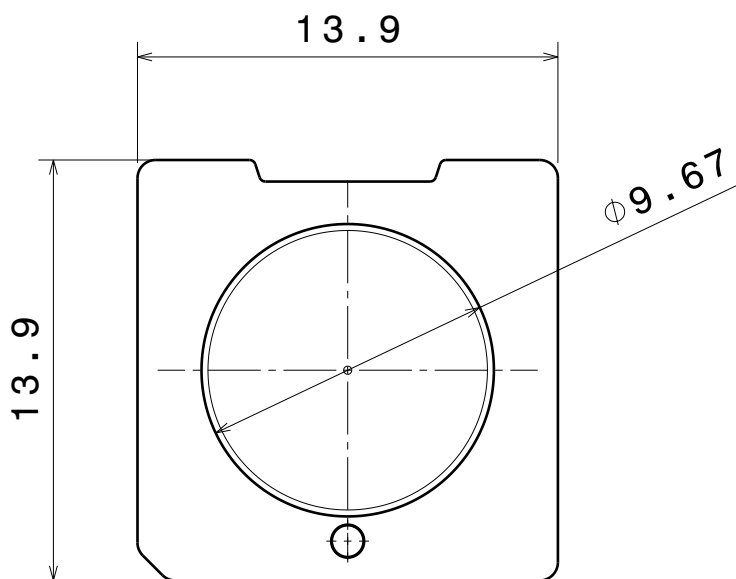
1



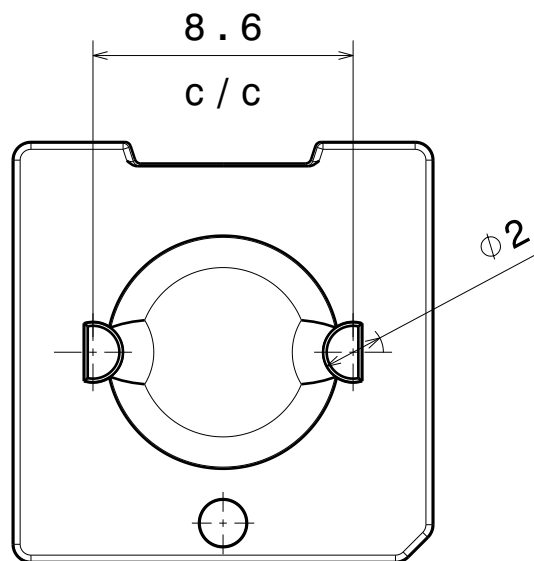
Front view



Isometric view



Top view



Bottom view

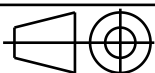
| INDEX | PART NO | DESCRIPTION    | MATERIAL | COLOUR |
|-------|---------|----------------|----------|--------|
| 1     | C15245  | STRADELLA-HB-S | PMMA     |        |

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

THIRD ANGLE PROJECTION:



DRAWING TITLE

C15245\_STRADELLA-HB-S

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

SIZE

A4

PART NUMBER

C15245

SCALE

1:1

WEIGHT

0,6 g

SHEET

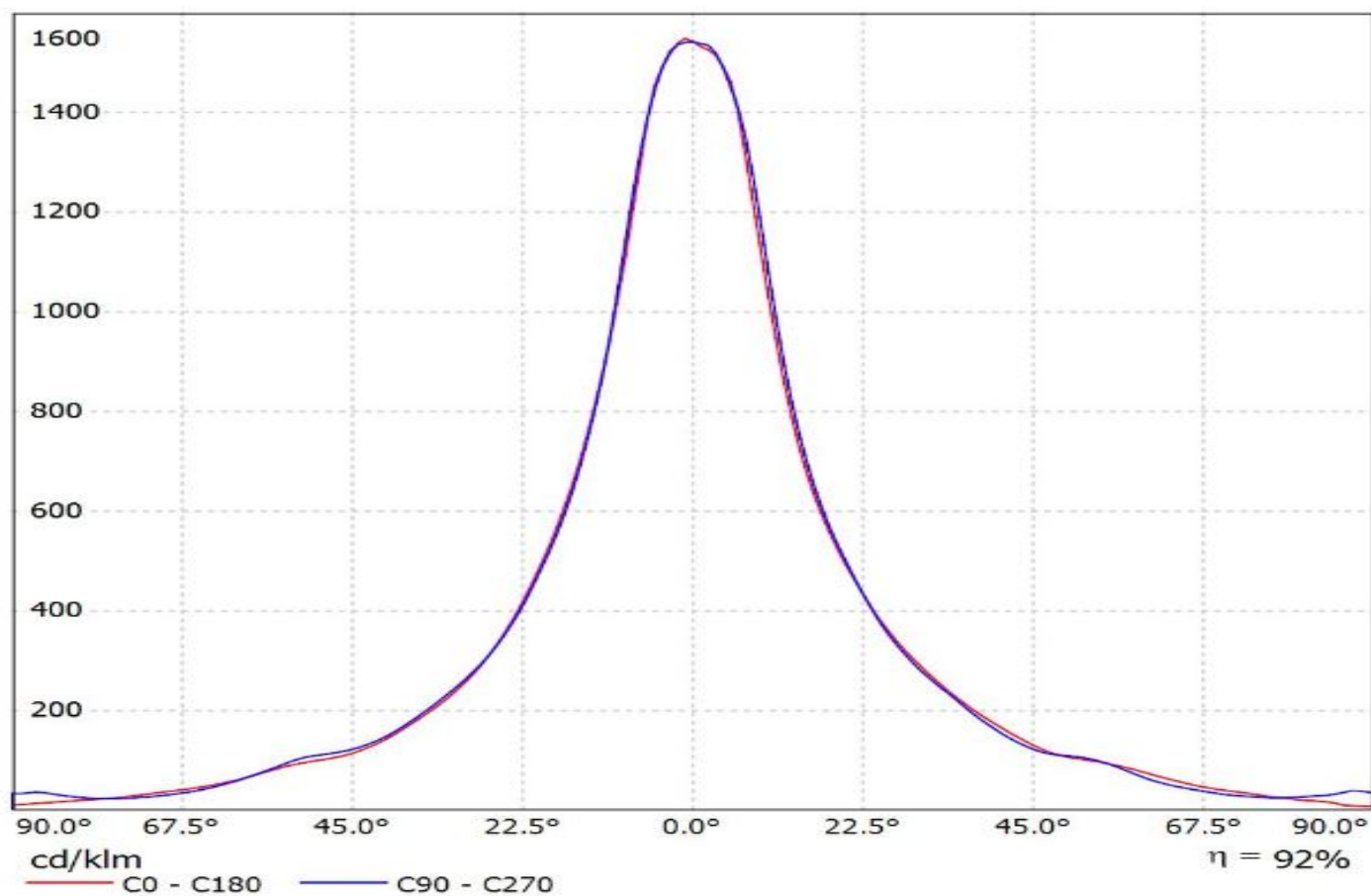
1/1

D

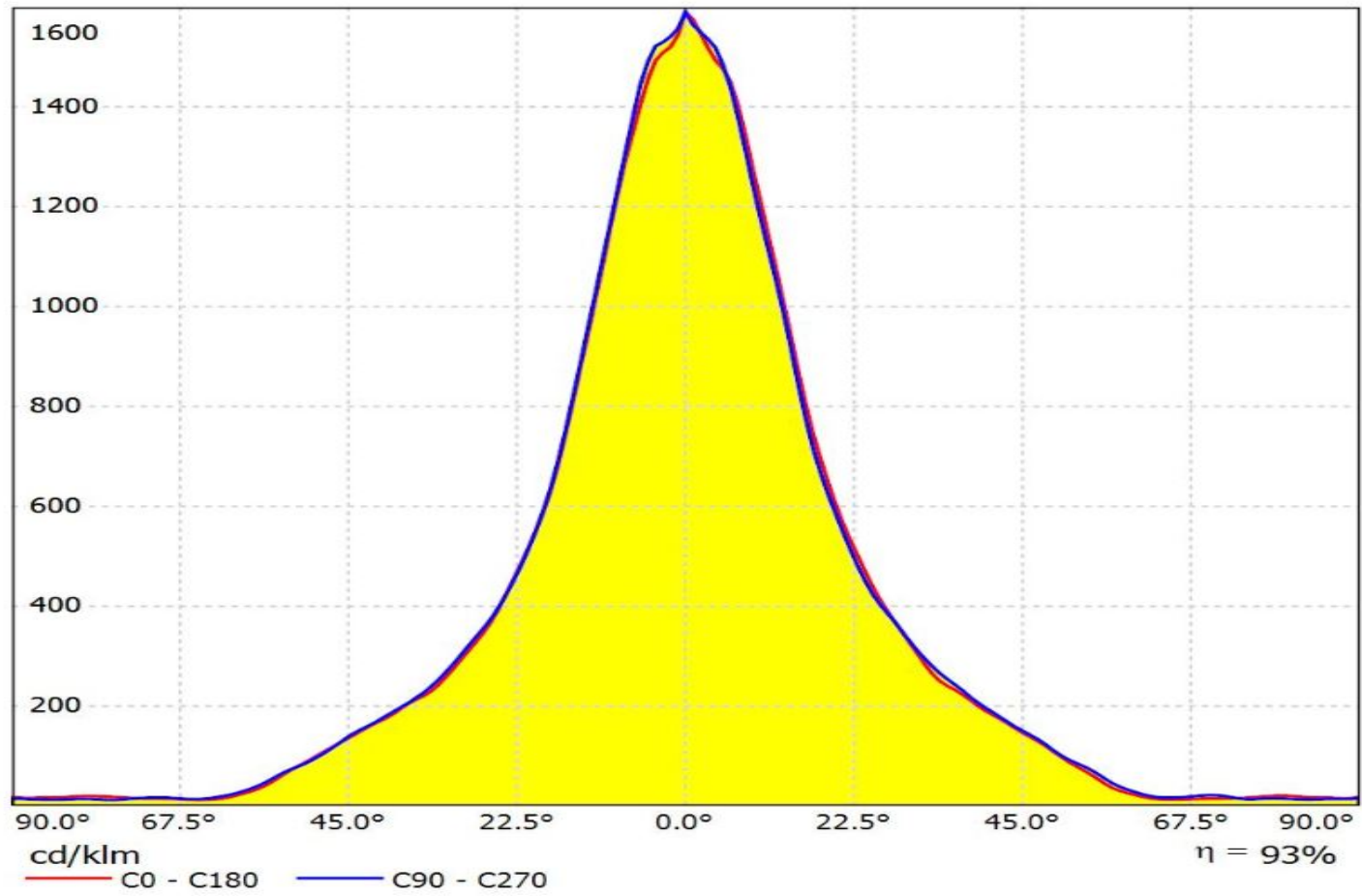
A

Luminaire: Ledil C15245\_STRADELLA-HB-S\_(XT-E)

Lamps: 1 x Cree\_XT-E\_(XTEAWT-0-2A0-R30-FB-0001)\_101.056lm@250mA\_P=0.781W\_I=0.25A

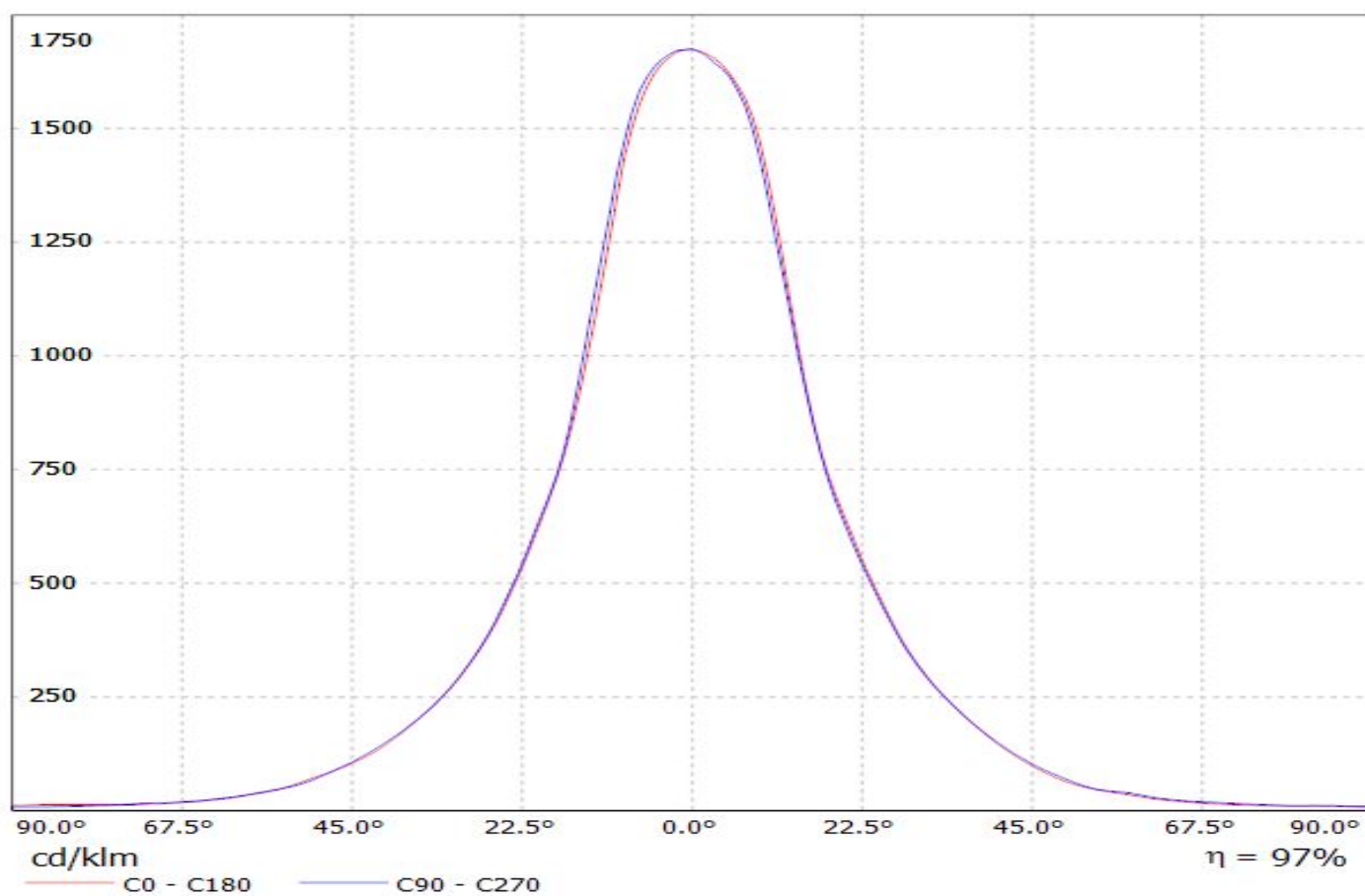


Luminaire: Ledil Oy C15245\_STRADELLA\_HB\_S\_SIMULATED  
Lamps: 1 x NICHIA NVSL219CT

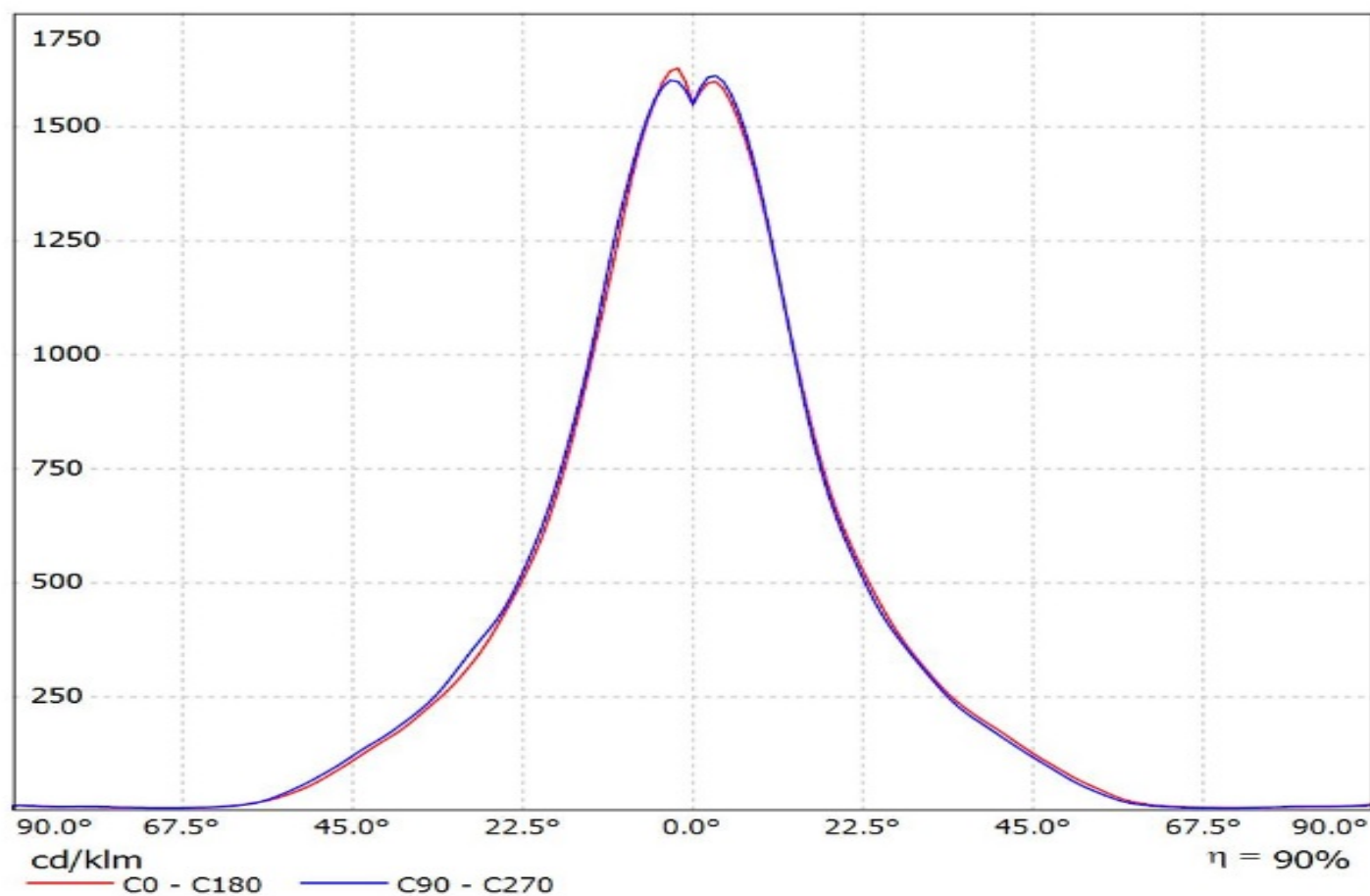


Luminaire: Ledil C15245\_STRADELLA-HB-S\_(NVSW219D)

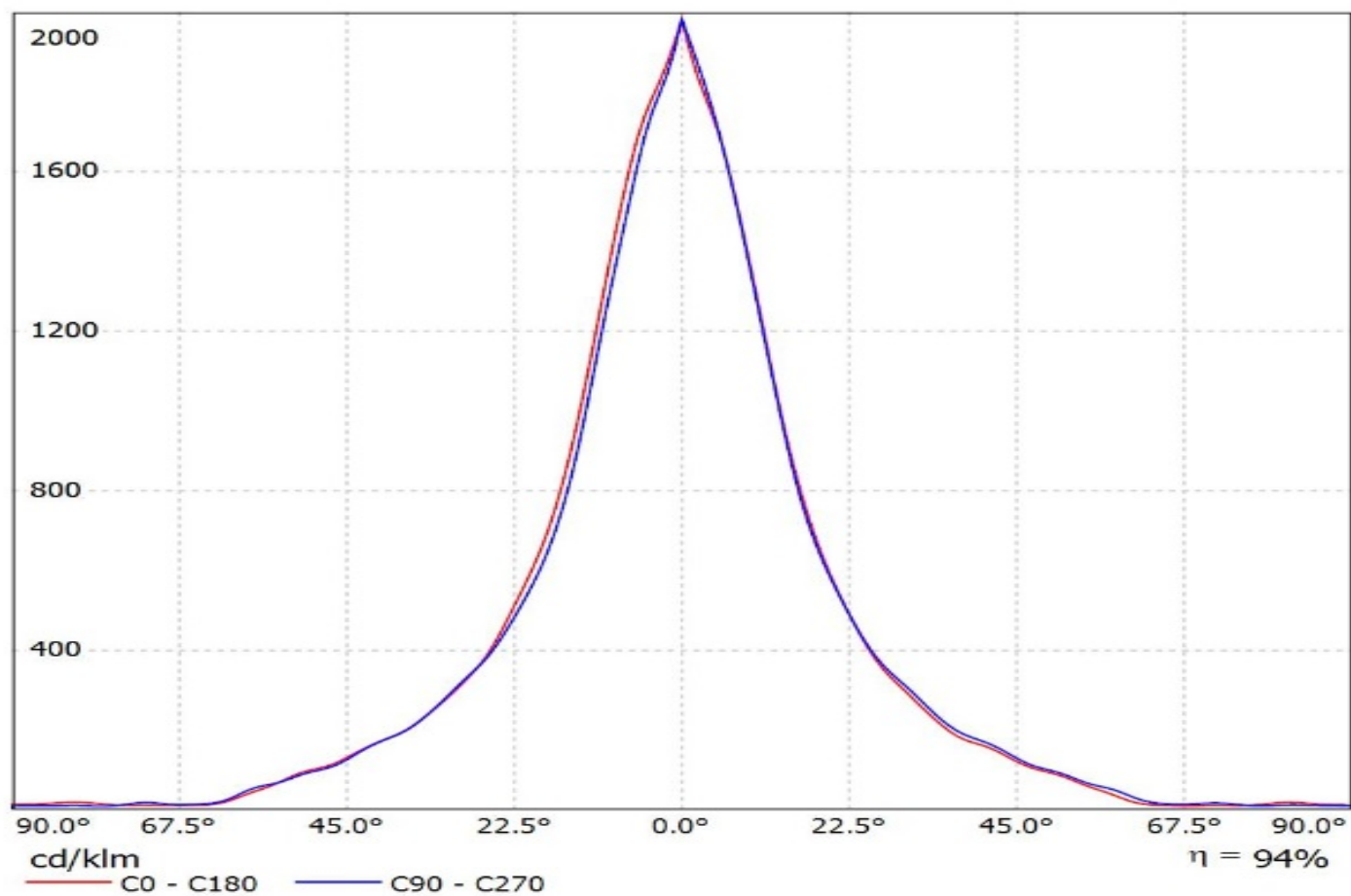
Lamps: 1 x Nichia\_NVSW219D\_x1\_129.319lm@250mA\_P=0.739979W\_U=2.9611V



Luminaire: Ledil Oy C15245\_STRADELLA-HB-S\_LH351B\_SIMULATED  
Lamps: 1 x Samsung LH351B

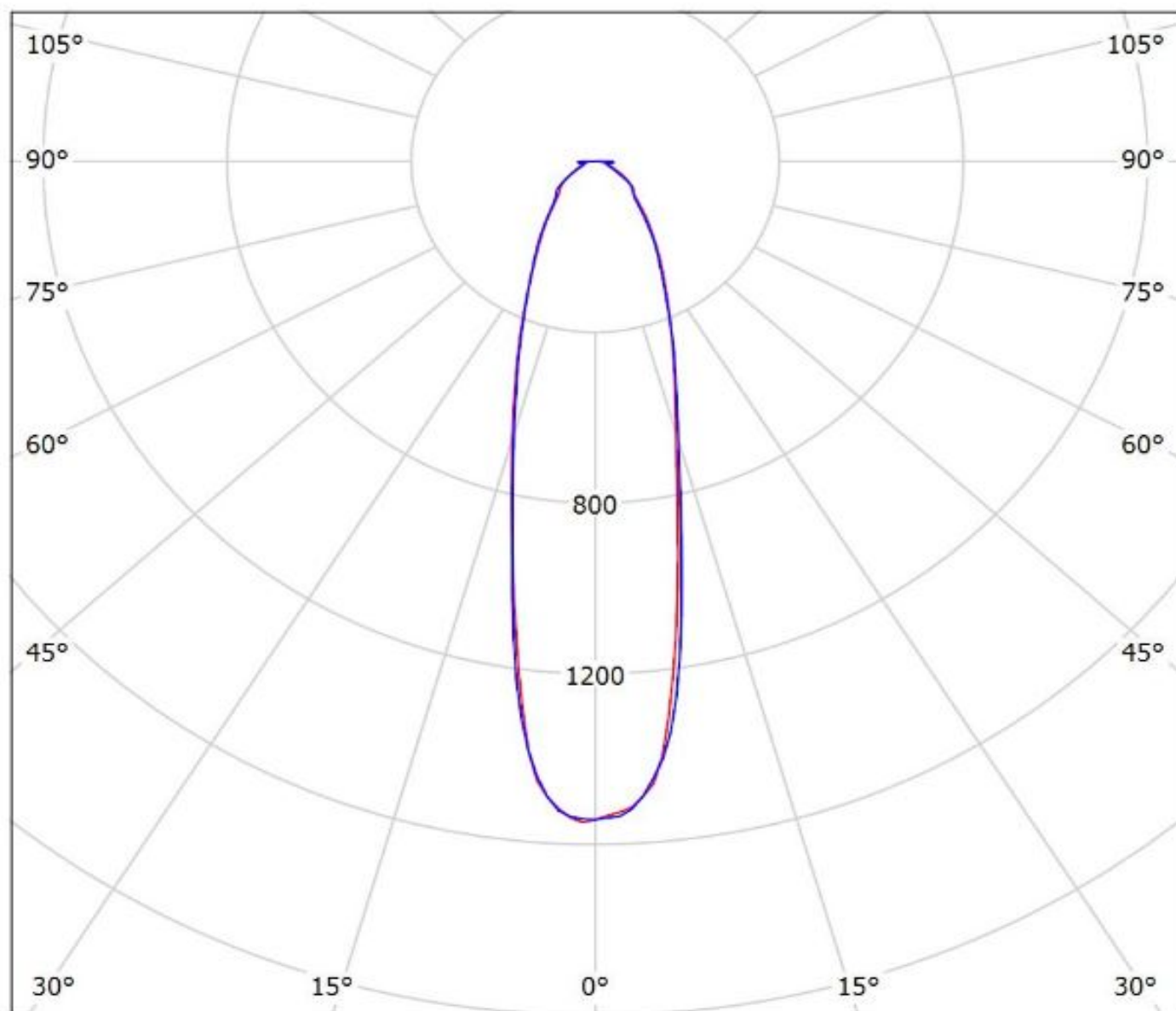


Luminaire: Ledil Oy C15245\_STRADELLA-HB-S\_(Z5M2)\_SIMULATED  
Lamps: 1 x Seoul SZ5-M2-W0-00



Luminaire: Ledil C15245\_STRADELLA-HB-S\_(XT-E)

Lamps: 1 x Cree\_XT-E\_(XTEAWT-0-2A0-R30-FB-0001)\_101.056lm@250mA\_P=0.781W\_I=0.25A

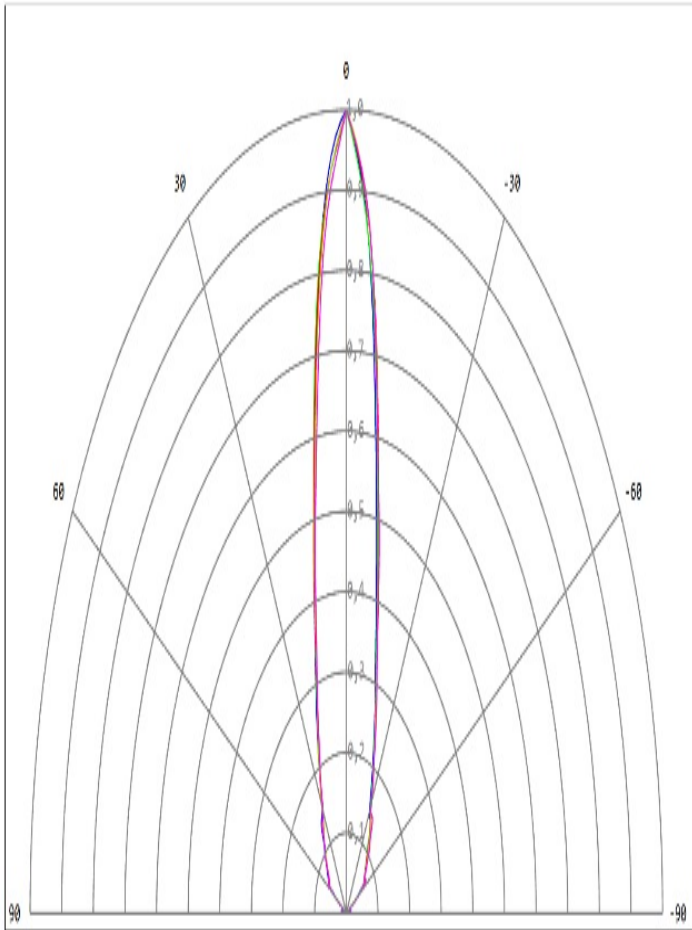


cd/klm

— C0 - C180

— C90 - C270

$\eta = 92\%$



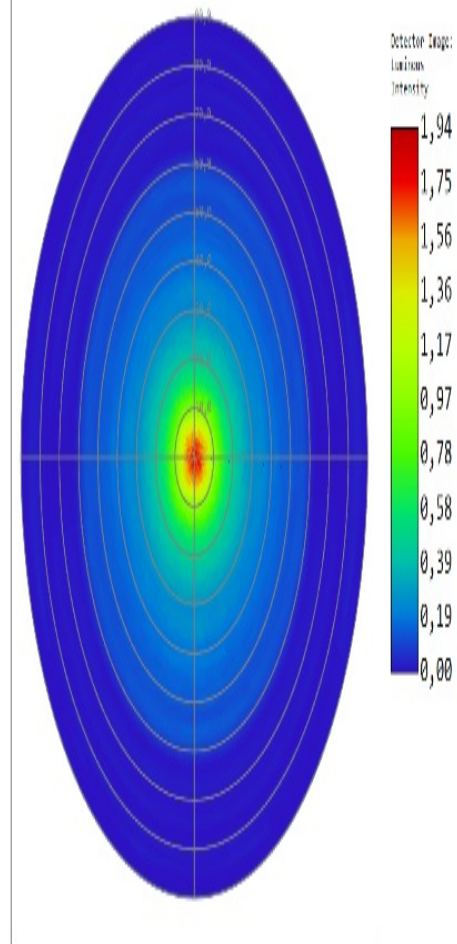
0 30 45 60 90

Detector Image: Luminous Intensity

27.6.2017  
Detector 5, NSCG Surface 1:  
Scan Angles: 0, 30, 45, 60, 90  
Peak Intensity : 1,766E+00 Lumens/Steradian

Zemax  
Zemax OpticStudio 16.5 SP1

C:\S245\_STRADELLA-HB-S (LUXEON IN DOME150).SIMULATED.zmx  
Configuration 1 of 1



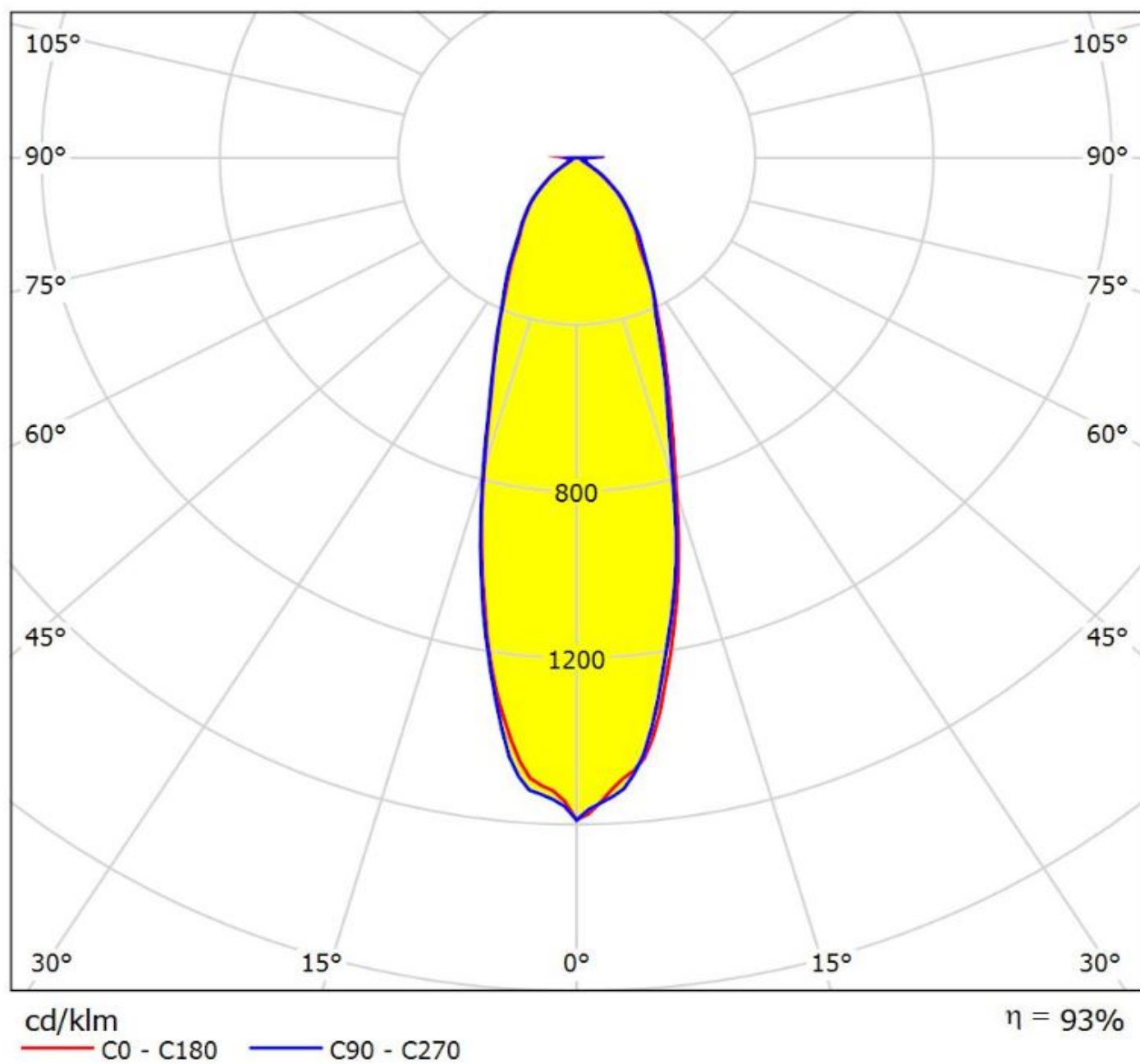
Detector Image: Luminous Intensity

27.6.2017  
Detector 5, NSCG Surface 1:  
Max polar angle: 90,00 deg, Total Hits = 5388923  
Peak Intensity : 1,944E+00 Lumens/Steradian  
Total Power : 9,284E-01 Lumens

Zemax  
Zemax OpticStudio 16.5 SP1

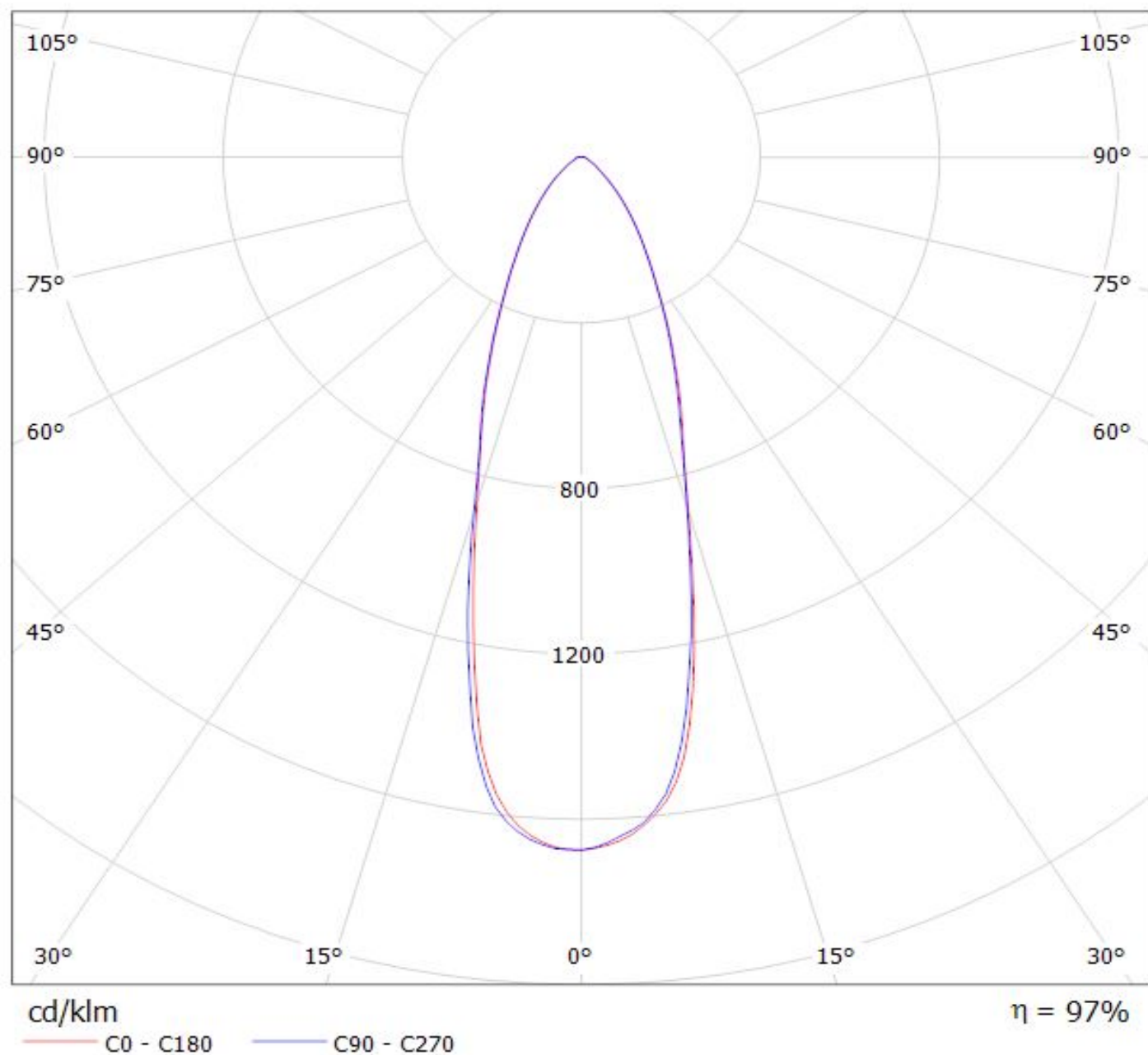
C:\S245\_STRADELLA-HB-S (LUXEON IN DOME150).SIMULATED.zmx  
Configuration 1 of 1

Lamps: 1 x NICHIA NVSL219CT

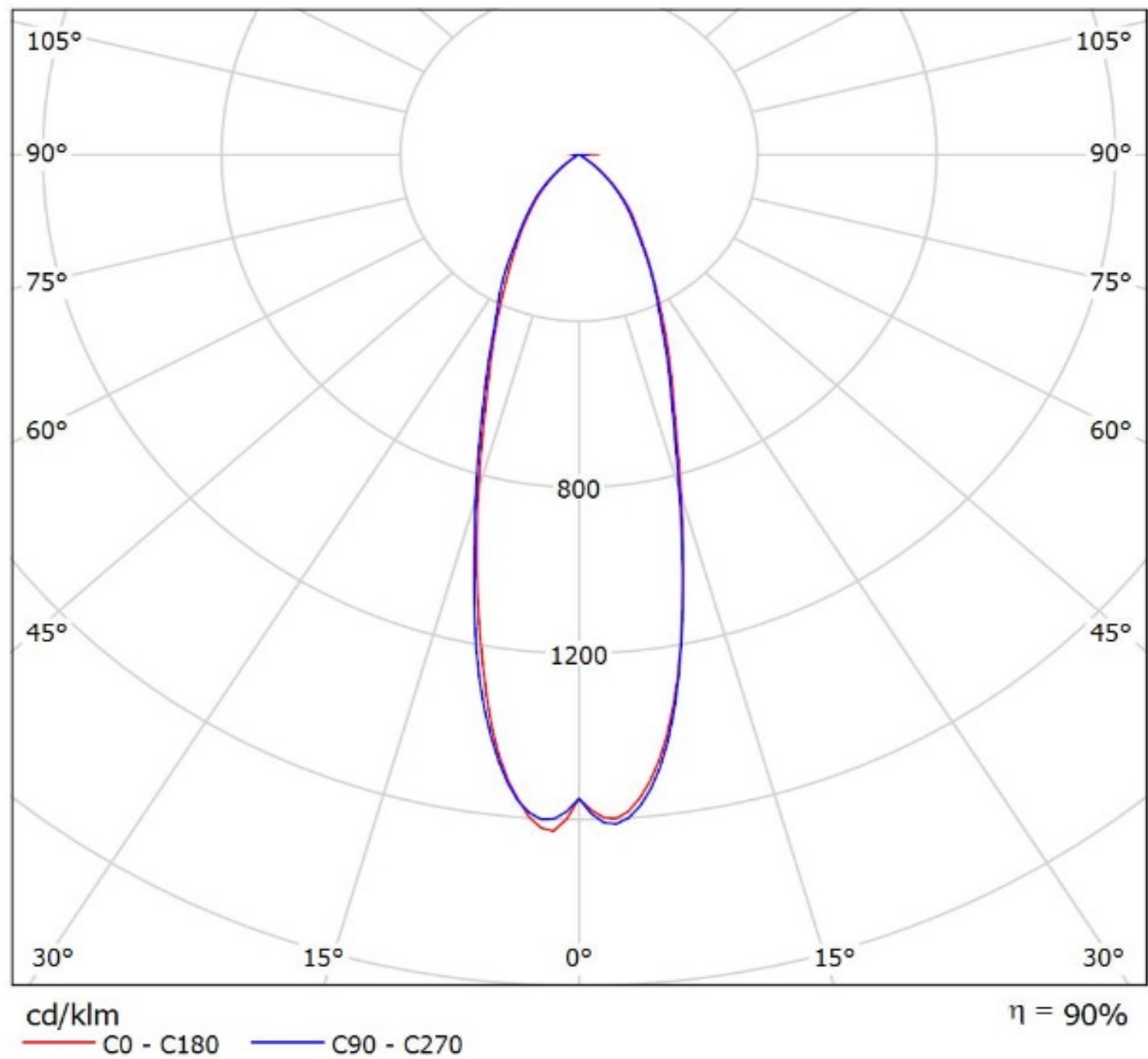


Luminaire: Ledil C15245\_STRADELLA-HB-S\_(NVSW219D)

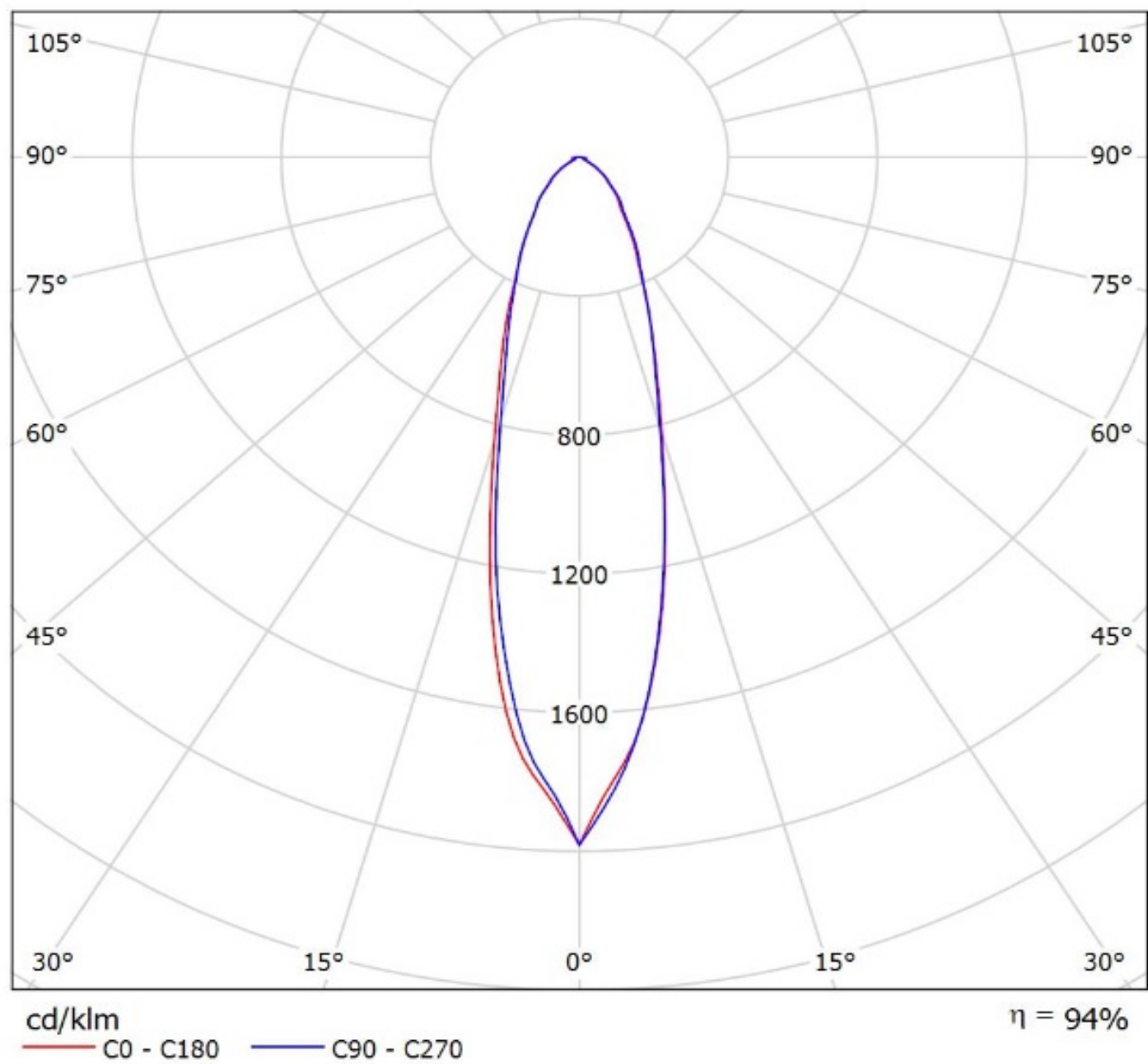
Lamps: 1 x Nichia\_NVSW219D\_x1\_129.319lm@250mA\_P=0.739979W\_U=2.9611V



Luminaire: Ledil Oy C15245\_STRADELLA-HB-S\_LH351B\_SIMULATED  
Lamps: 1 x Samsung LH351B



Luminaire: Ledil Oy C15245\_STRADELLA-HB-S\_(Z5M2)\_SIMULATED  
Lamps: 1 x Seoul SZ5-M2-W0-00



**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.**