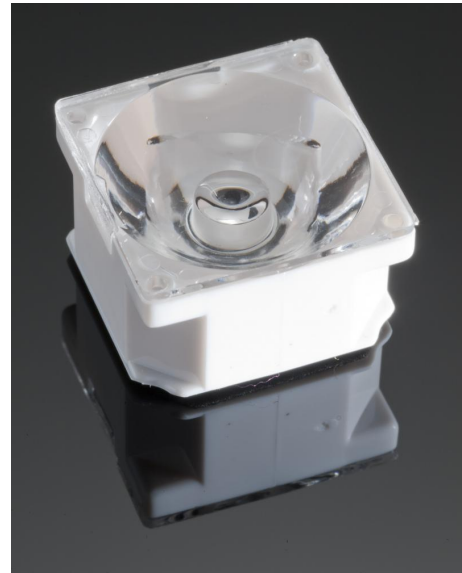


DETAILS

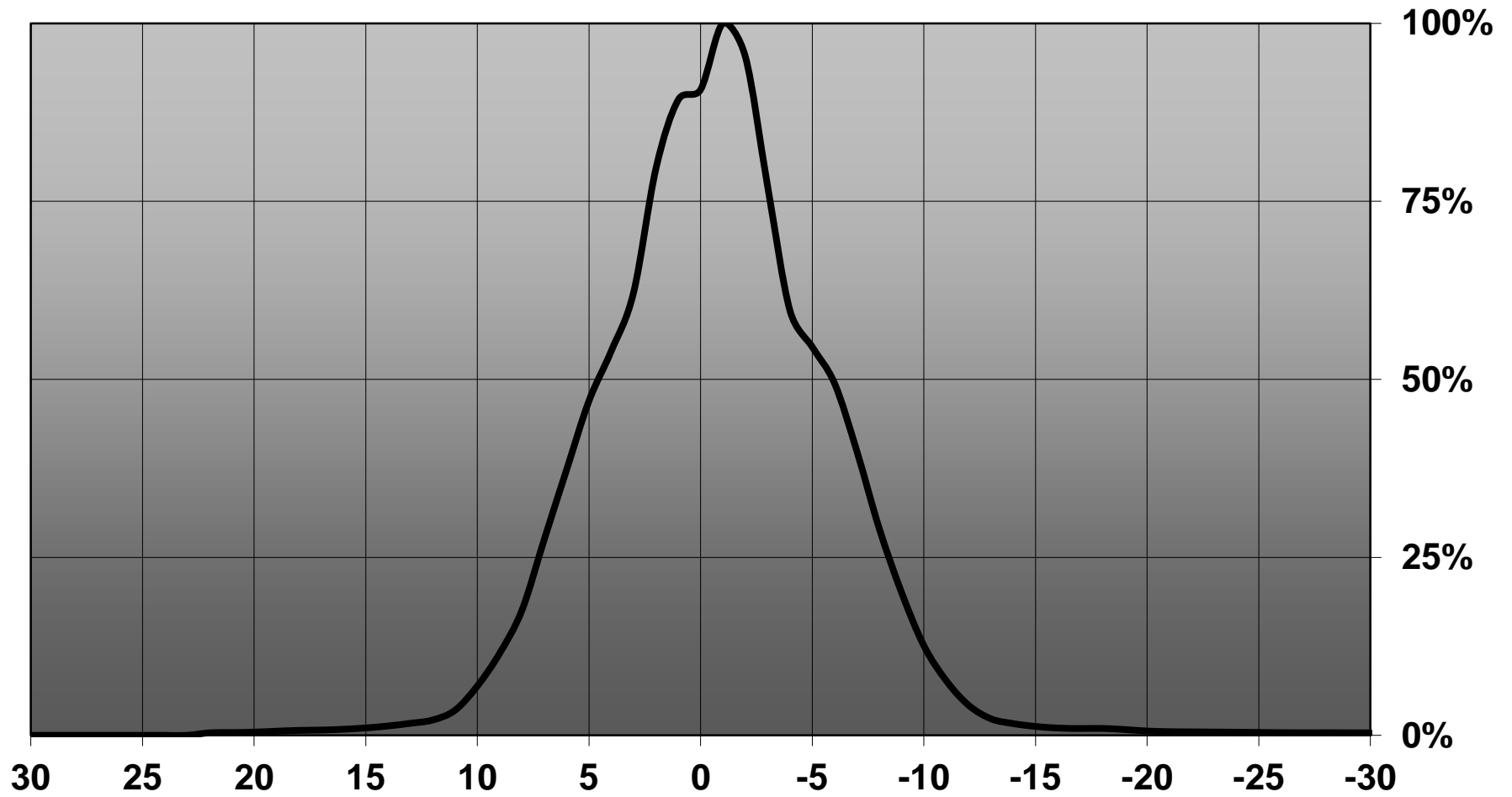
| | |
|------------------------|----------------------|
| Product Number | CA11959_LAURA-RS-PIN |
| Family | Laura |
| Type | Assembly |
| Color | white |
| Diameter | 21,6 x 21,6 mm |
| Height | 13,1 mm |
| Style | square |
| Optic Material | PMMA |
| Holder Material | |
| Fastening | tape, pin |
| Status | production ready |
| ROHS Compliant | Yes |
| Date Updated | 26/01/2016 |



OPTICAL PROPERTIES

| LED | Viewing | Light | Effi- | | Connector |
|-----------------|----------|-----------|-----------|--------------|-----------|
| | Angle | Beam | ciency | cd/lm | |
| XP-E | 8 deg | Real spot | 93 % | 33.200 | - |
| XP-G | 11 deg | Real spot | 93 % | - | - |
| LUXEON Rebel | 7 deg | Real spot | 93 % | 34.000 | - |
| LUXEON T | 11 deg | Real spot | 92 % | 18.500 | - |
| LUXEON H50-2 | sim: 12 | Real spot | sim: 92 % | sim: 16.300- | - |
| NCSxx19B | 10 deg | Real spot | 91 % | 27.800 | - |
| NVSxE21A | sim: 10 | Real spot | sim: 94 % | sim: 21.350- | - |
| SFH 4715S | sim: 9,5 | Real spot | - | - | - |
| Oslon Square EC | 9 deg | Real spot | 93 % | 20.000 | - |
| Oslon SSL 150 | 7 deg | Real spot | 92 % | 42.000 | - |
| SFH 4725S | 10 deg | Real spot | sim: 94 % | - | - |
| SFH 4770S | sim: 10 | Real spot | sim: 94 % | - | - |
| SFH 4715AS | sim: 10 | Real spot | sim: 94 % | sim: 0.000 | - |
| Z5 | 7 deg | Real spot | - | - | - |

Relative intensity of CA11959_LAURA-RS-PIN_(SFH4725S)



D

C

B

A

4

4

3

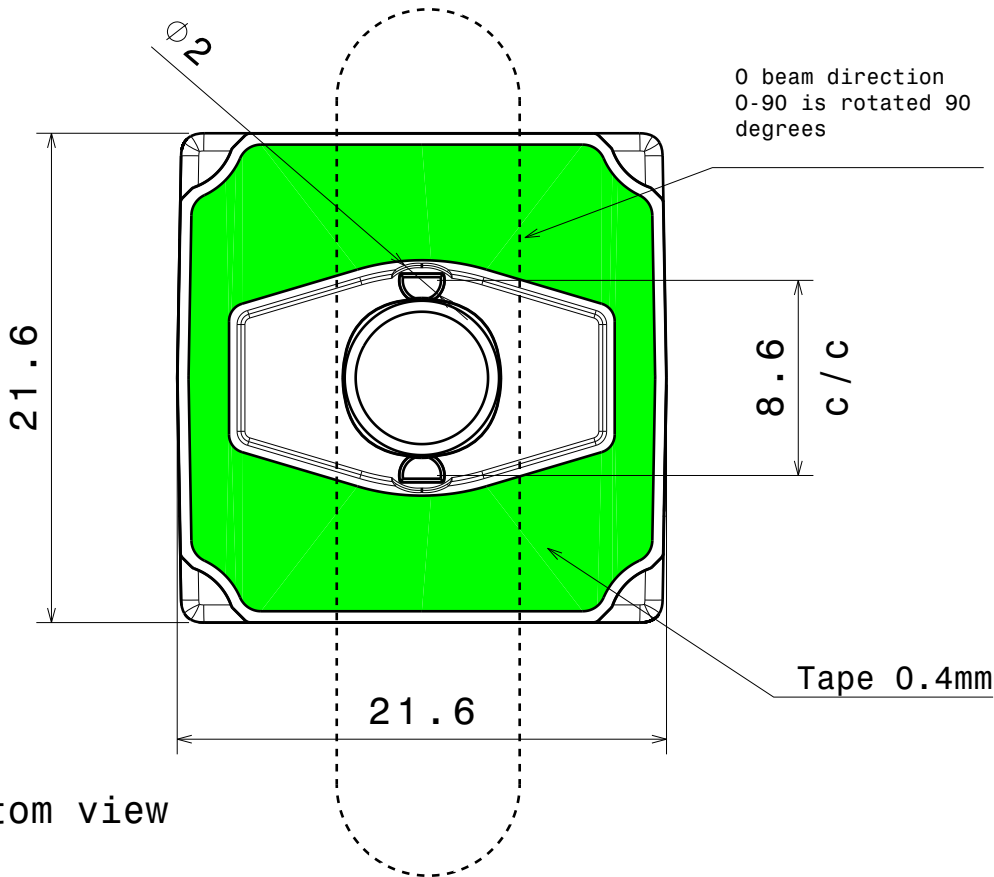
3

2

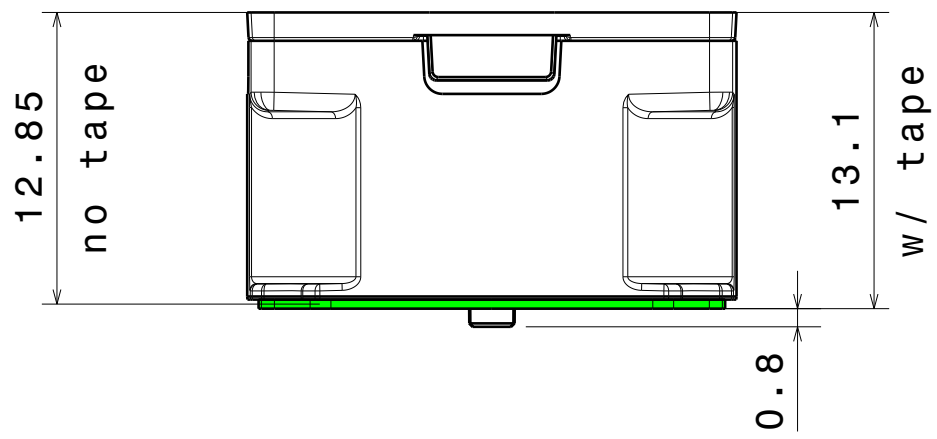
2

1

1



Bottom view



Front view

Note: Pinless versions also available

| INDEX | DESCRIPTION | MATERIAL | COLOUR |
|-------|-----------------|----------|-------------|
| 1 | LAURA-lens | PMMA | |
| 2 | LAURA-XP holder | PC | white/black |

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
Laura-XP family datasheet

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
A4 -

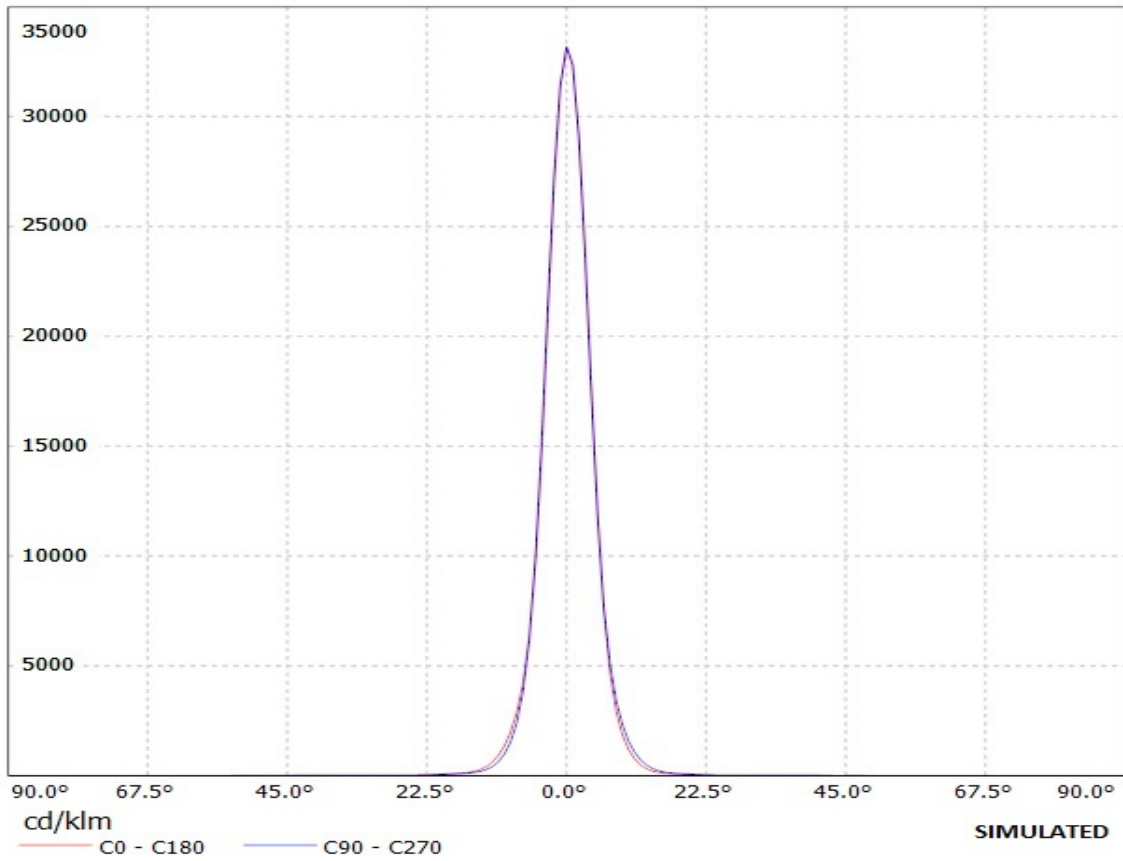
SCALE 1:1 WEIGHT - SHEET 1/1

D

A

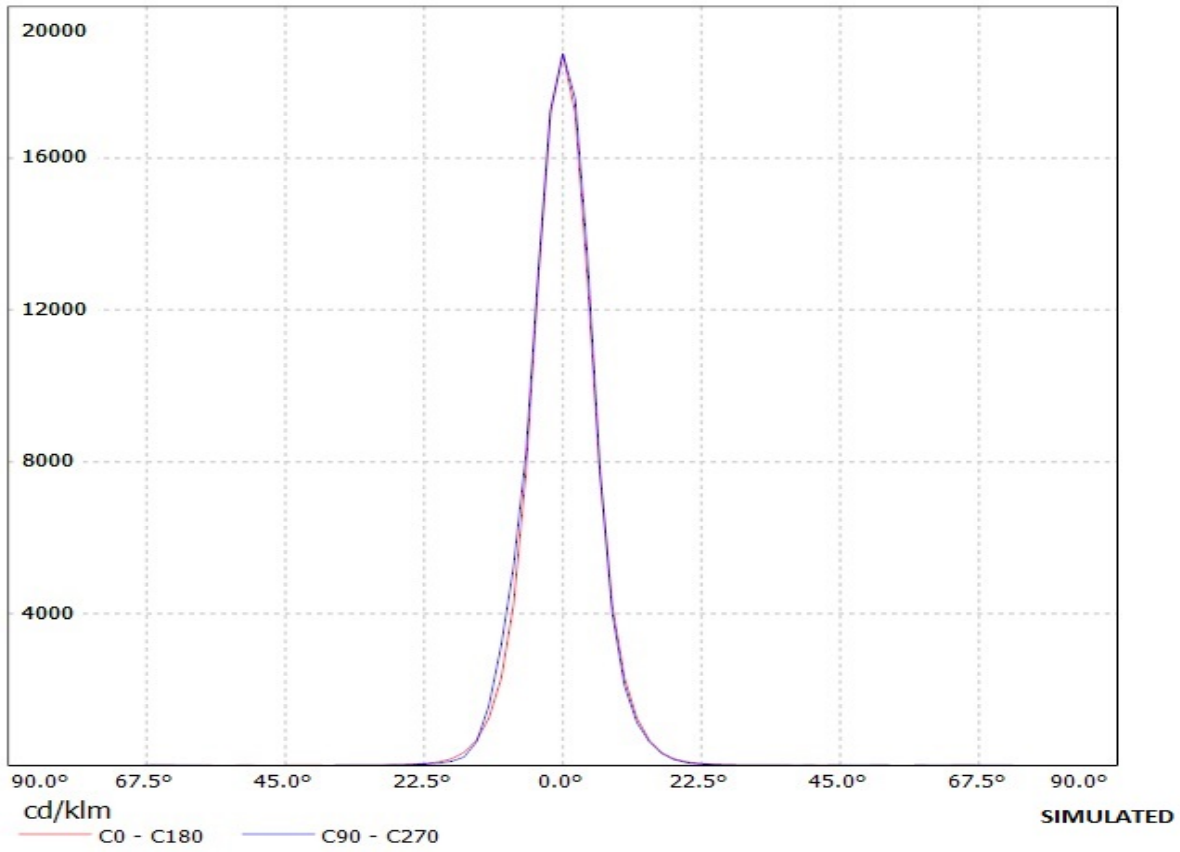
Ledil Laura-RS-Pin-XP Laura-RS-Pin-XP / LDC (Linear)

Luminaire: Ledil Laura-RS-Pin-XP Laura-RS-Pin-XP
Lamps: 1 x LED Module



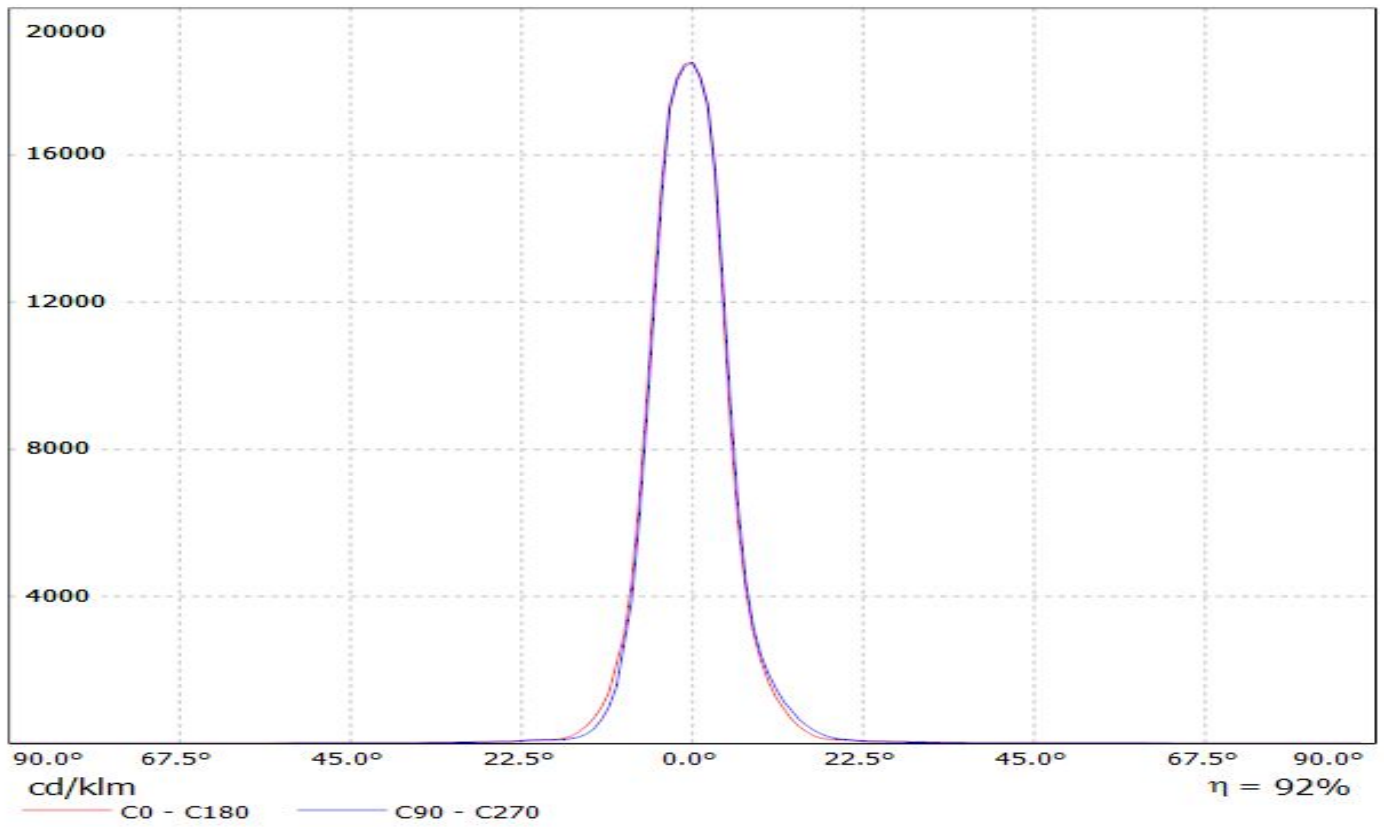
Ledil Oy CA11353_Laura-RS-XP-G-tape / LDC (Linear)

Luminaire: Ledil Oy CA11353_Laura-RS-XP-G-tape
Lamps: 1 x Cree XP-G 63,5lm 250mA Warm

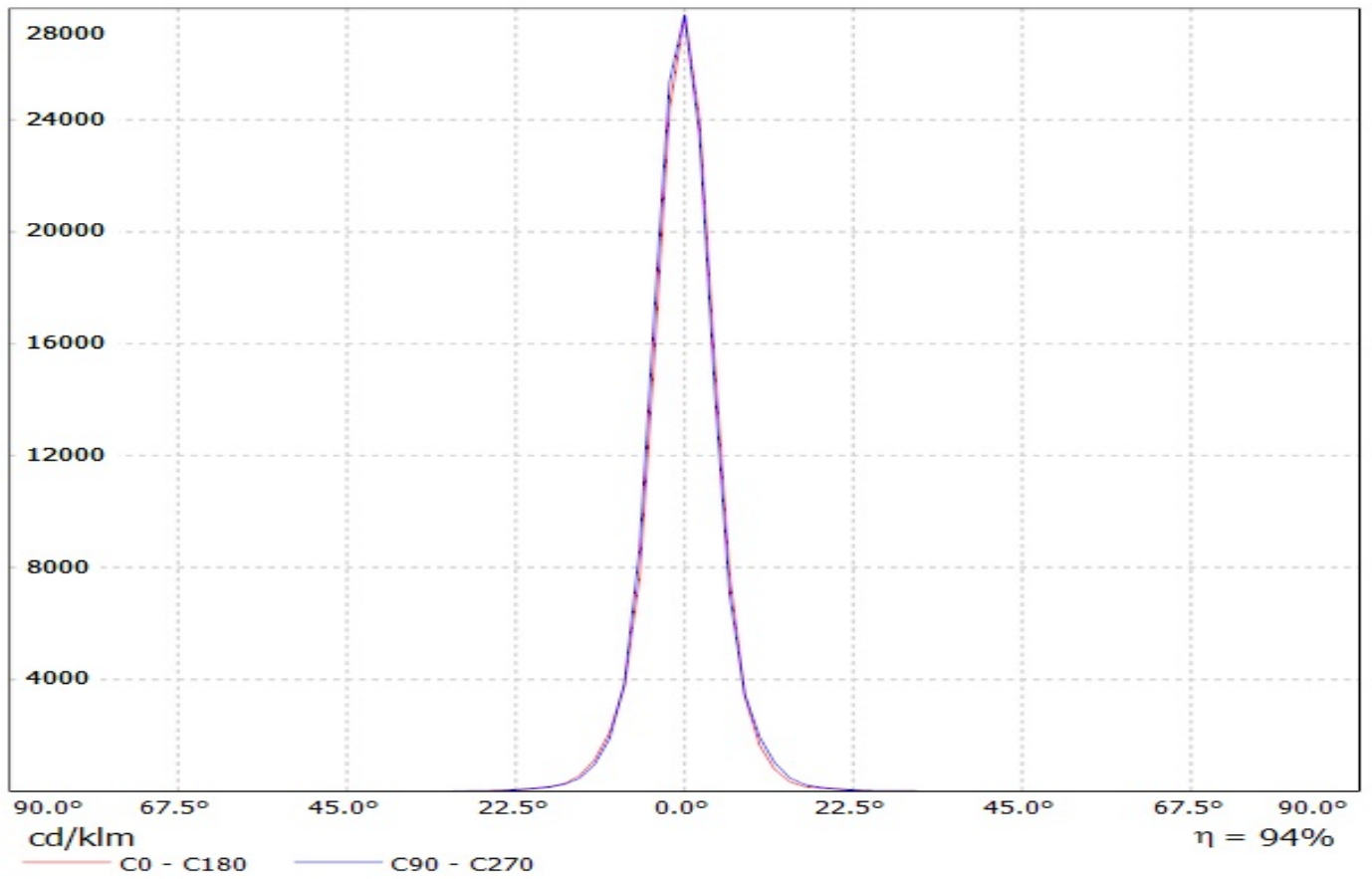


LEDiL Oy CA11959_LAURA-RS-PIN_(LUXEON_T)_2 Eff.92.0% / LDC (Linear)

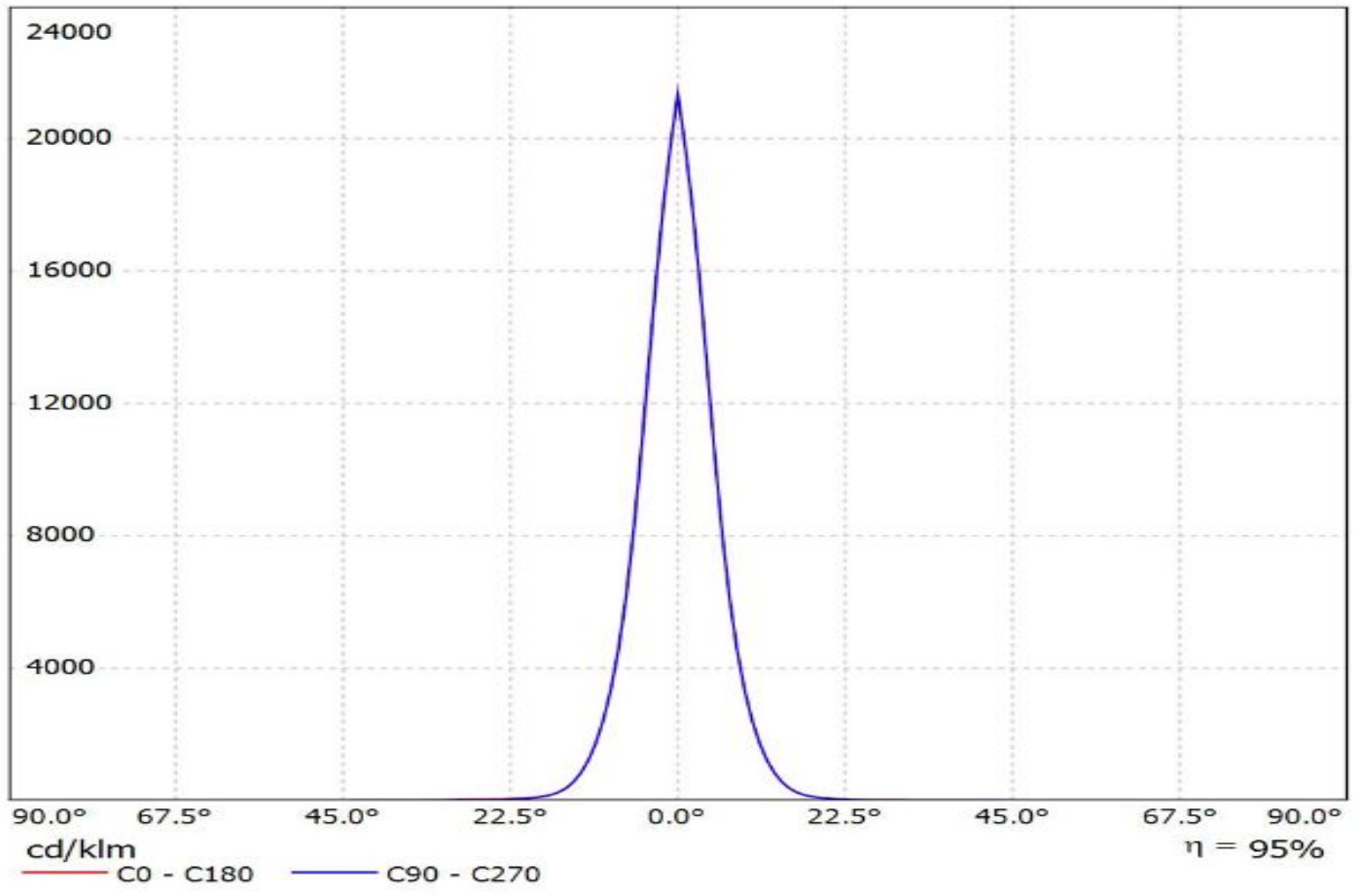
Luminaire: LEDiL Oy CA11959_LAURA-RS-PIN_(LUXEON_T)_2 Eff.92.0%
Lamps: 1 x LUXEON T (74lm@250mA)



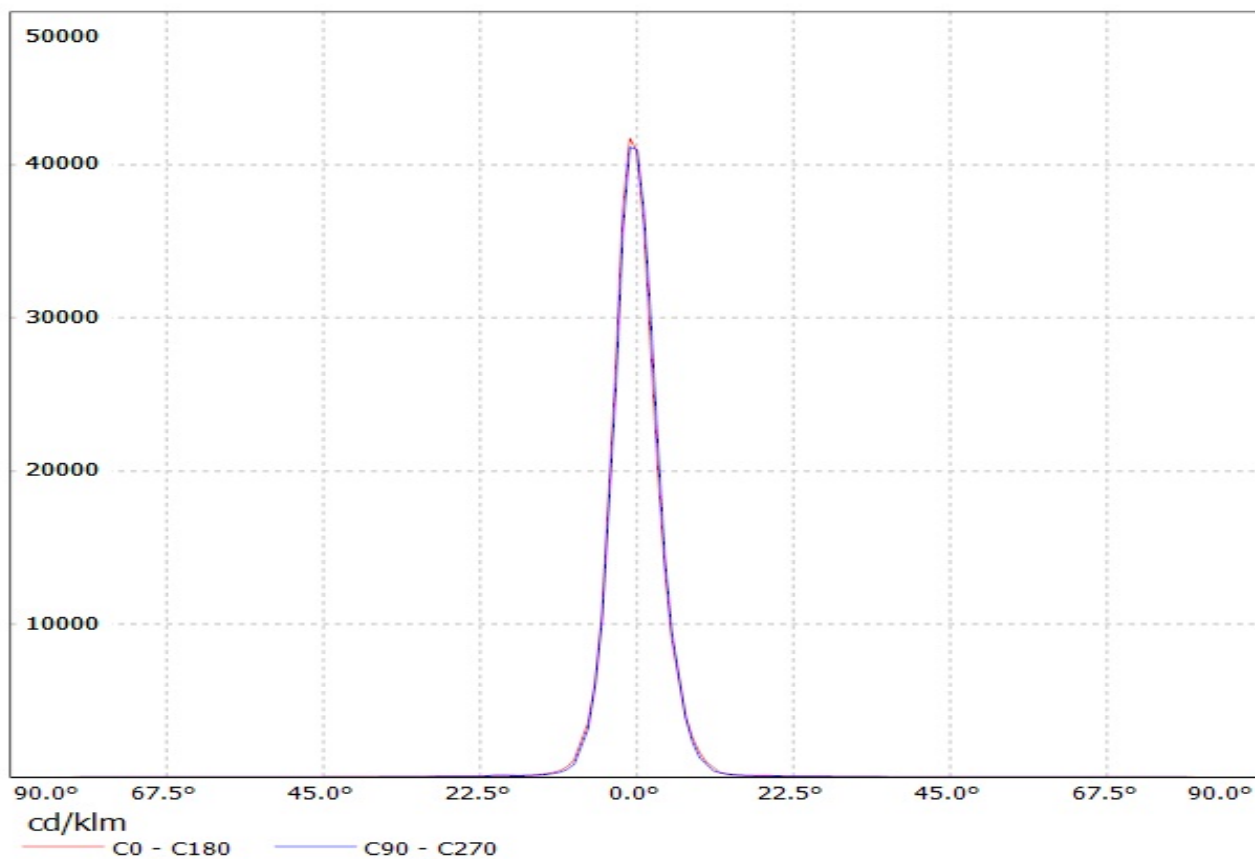
Luminaire: LEDiL Oy CA11959_LAURA-RS-PIN_(NCSxx19B) Efficiency=91%
Lamps: 1 x Nichia NCSxx19B (NCSL119BE) 88.5lm @ 250mA CCT=3400K P=0.8W I=250mA



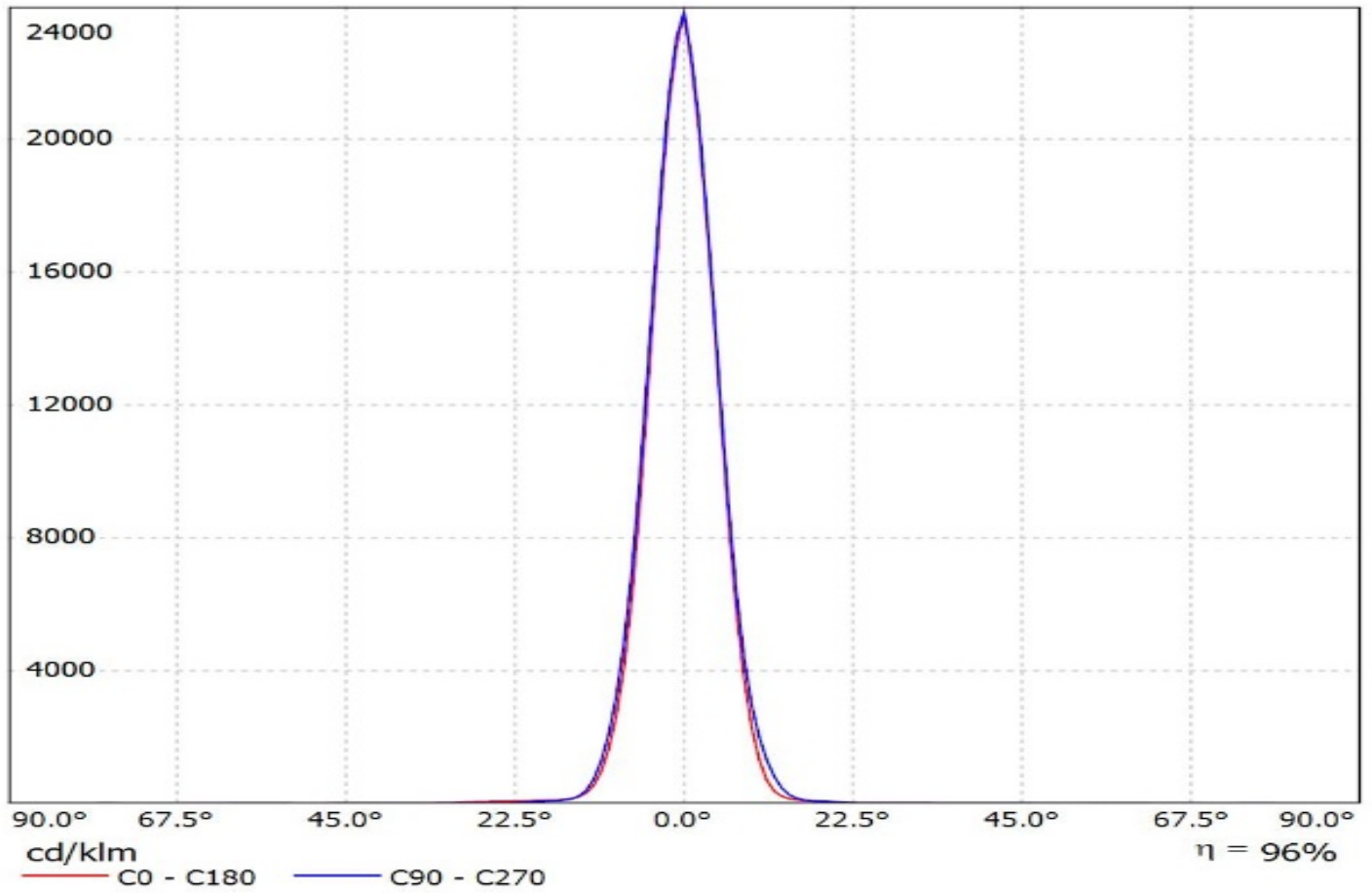
Luminaire: Ledil Oy CA11959_LAURA-RS-PIN_NICHIA_NVSWE21A_SIMULATED
Lamps: 1 x NICHIA NVSWE21A



Luminaire: LEDIL OY CA11959_LAURA-RS-PIN (SSL150) Efficiency=92%
Lamps: 1 x Osram Oslon SSL150 (95lm@250mA)

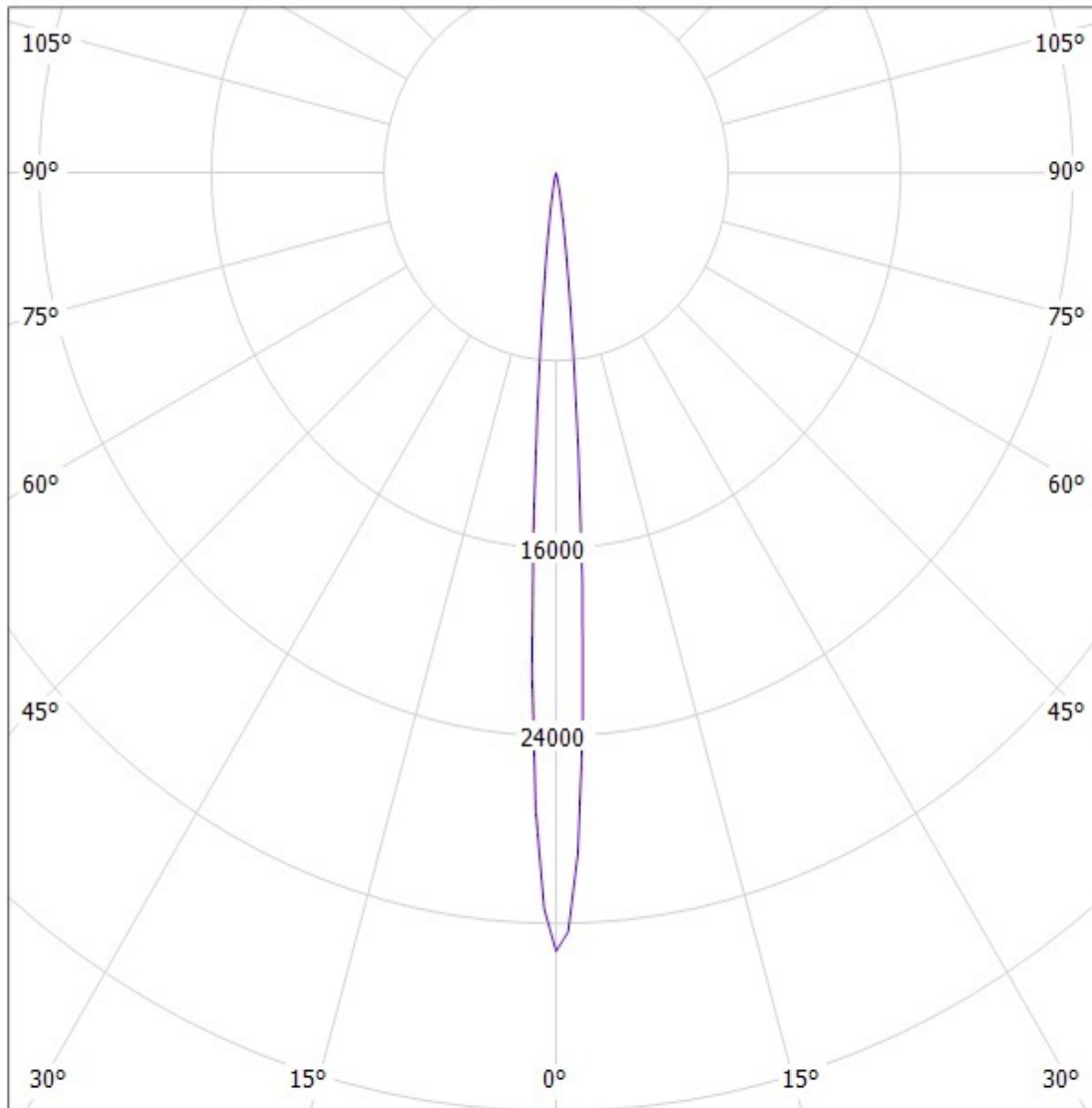


Luminaire: Ledil Oy CA11959_LAURA-RS-PIN_(SFH_4715AS)_SIMULATED
Lamps: 1 x Osram SFH 4715AS with 550 nm wavelength



Ledil Laura-RS-Pin-XP Laura-RS-Pin-XP / LDC (Polar)

Luminaire: Ledil Laura-RS-Pin-XP Laura-RS-Pin-XP
Lamps: 1 x LED Module



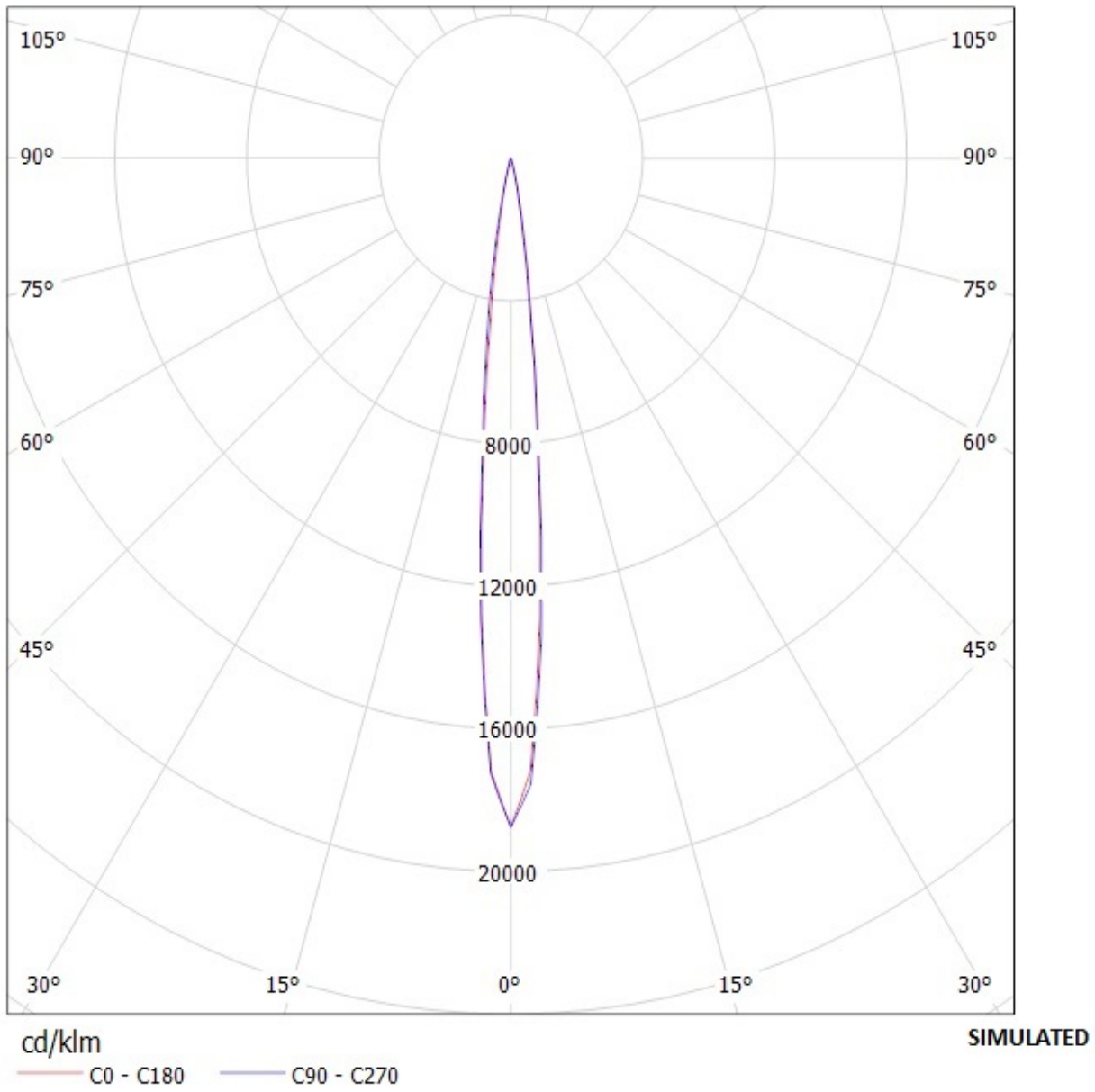
cd/klm

— C0 - C180 — C90 - C270

SIMULATED

Ledil Oy CA11353_Laura-RS-XP-G-tape / LDC (Polar)

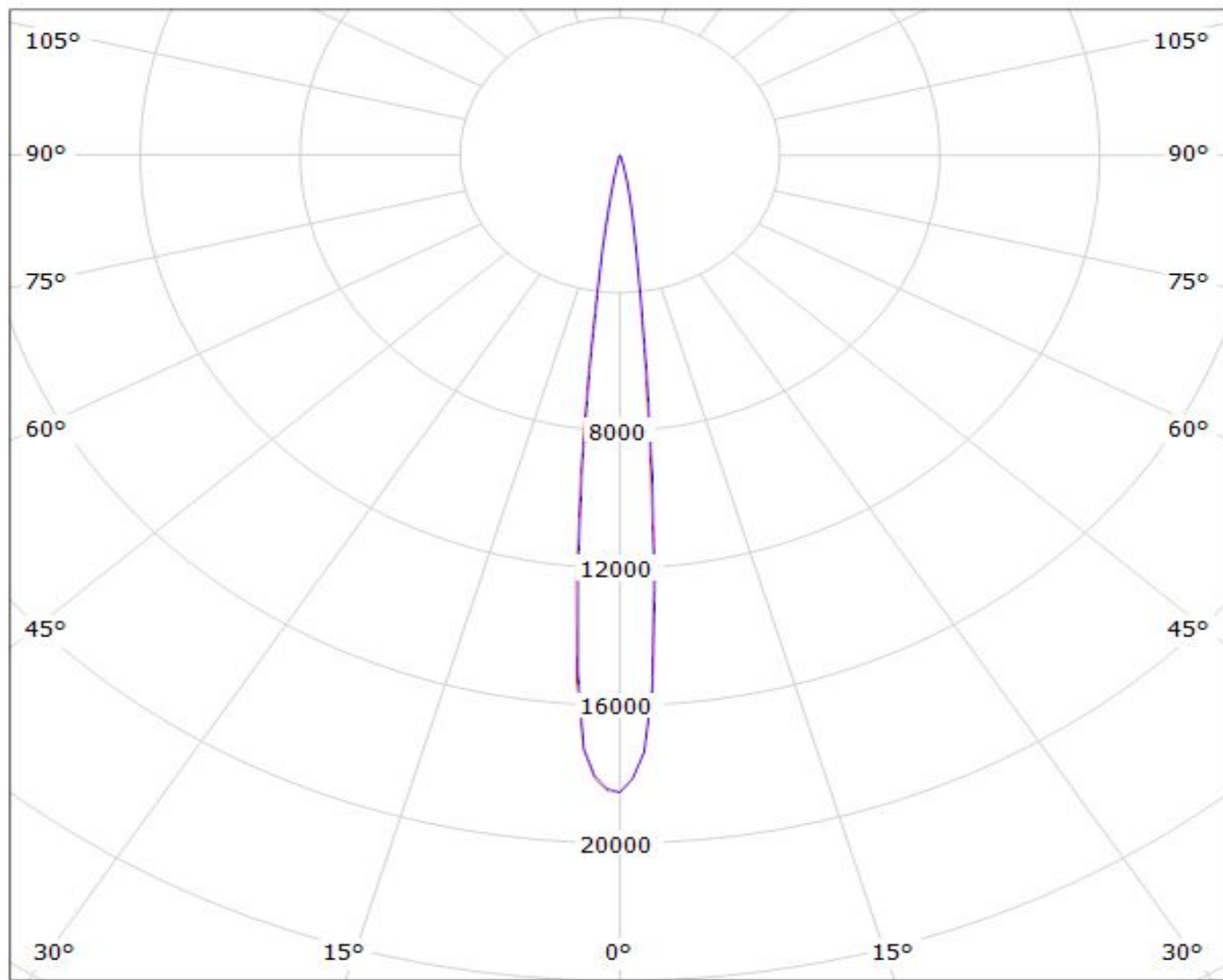
Luminaire: Ledil Oy CA11353_Laura-RS-XP-G-tape
Lamps: 1 x Cree XP-G 63,5lm 250mA Warm



LEDiL Oy CA11959_LAURA-RS-PIN_(LUXEON_T)_2 Eff.92.0% / LDC (Polar)

Luminaire: LEDiL Oy CA11959_LAURA-RS-PIN_(LUXEON_T)_2 Eff.92.0%

Lamps: 1 x LUXEON T (74lm@250mA)



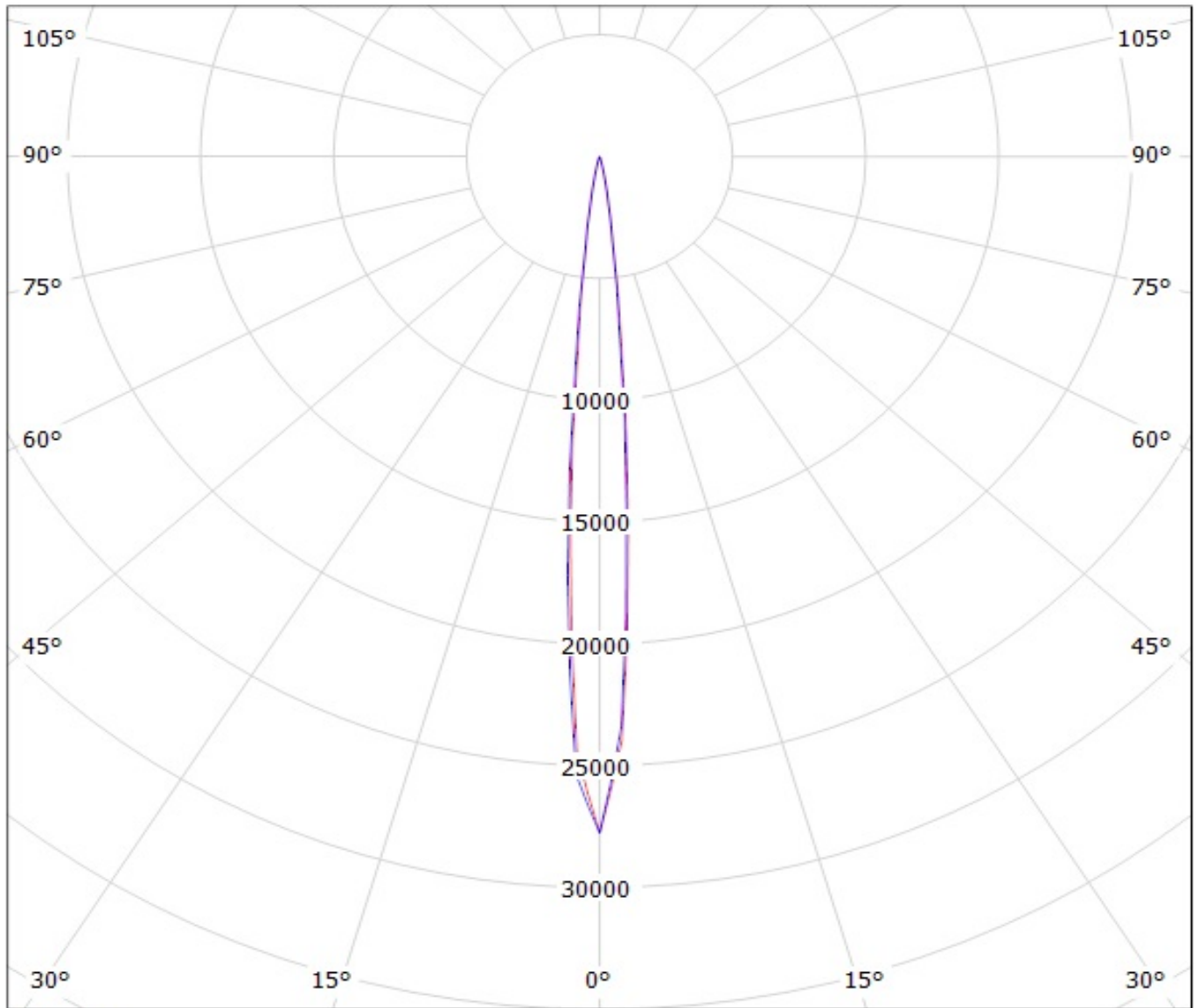
cd/klm

— C0 - C180

— C90 - C270

$\eta = 92\%$

Luminaire: LEDiL Oy CA11959_LAURA-RS-PIN_(NCSxx19B) Efficiency=91%
Lamps: 1 x Nichia NCSxx19B (NCSL119BE) 88.5lm @ 250mA CCT=3400K P=0.8W I=250mA

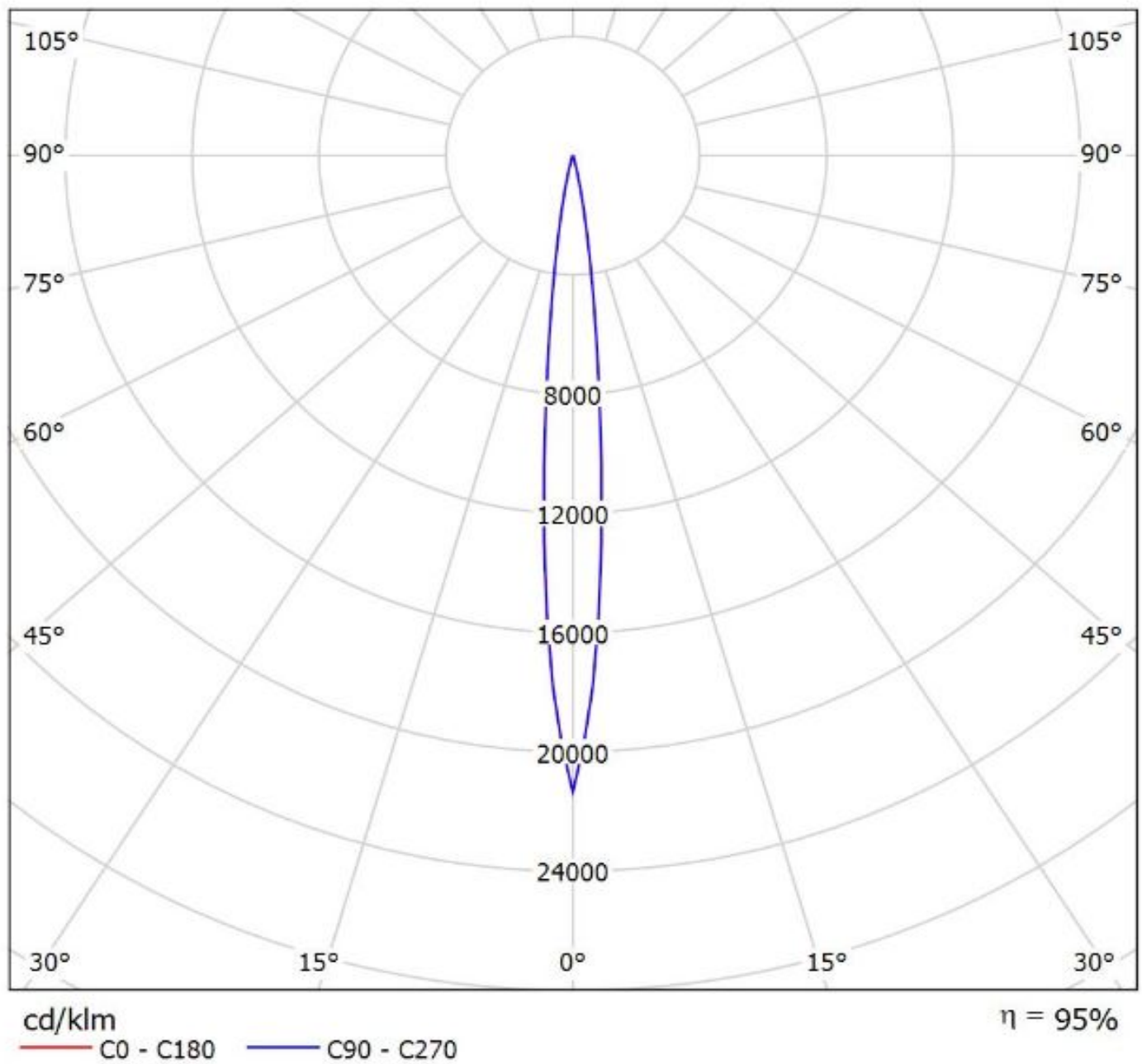


cd/klm

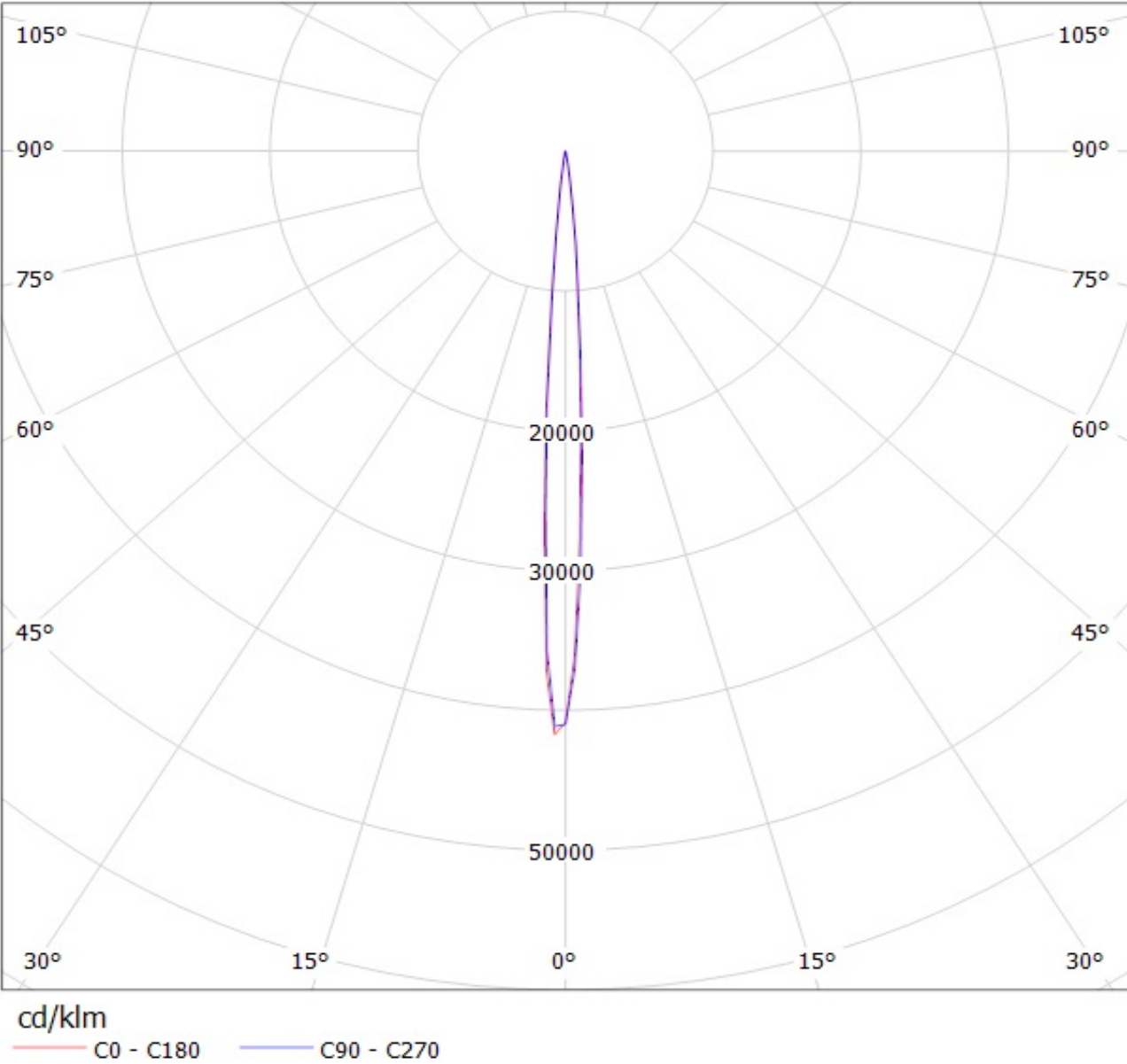
— C0 - C180

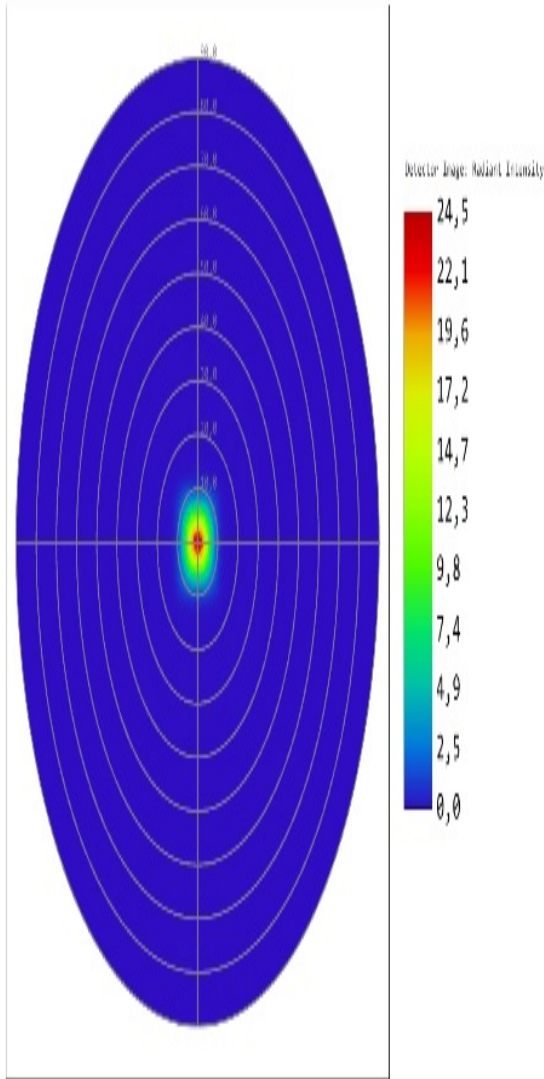
— C90 - C270

Luminaire: Ledil Oy CA11959_LAURA-RS-PIN_NICHIA_NVSWE21A_SIMULATED
Lamps: 1 x NICHIA NVSWE21A



Luminaire: LEDIL OY CA11959_LAURA-RS-PIN (SSL150) Efficiency=92%
Lamps: 1 x Osram Oslon SSL150 (95lm@250mA)



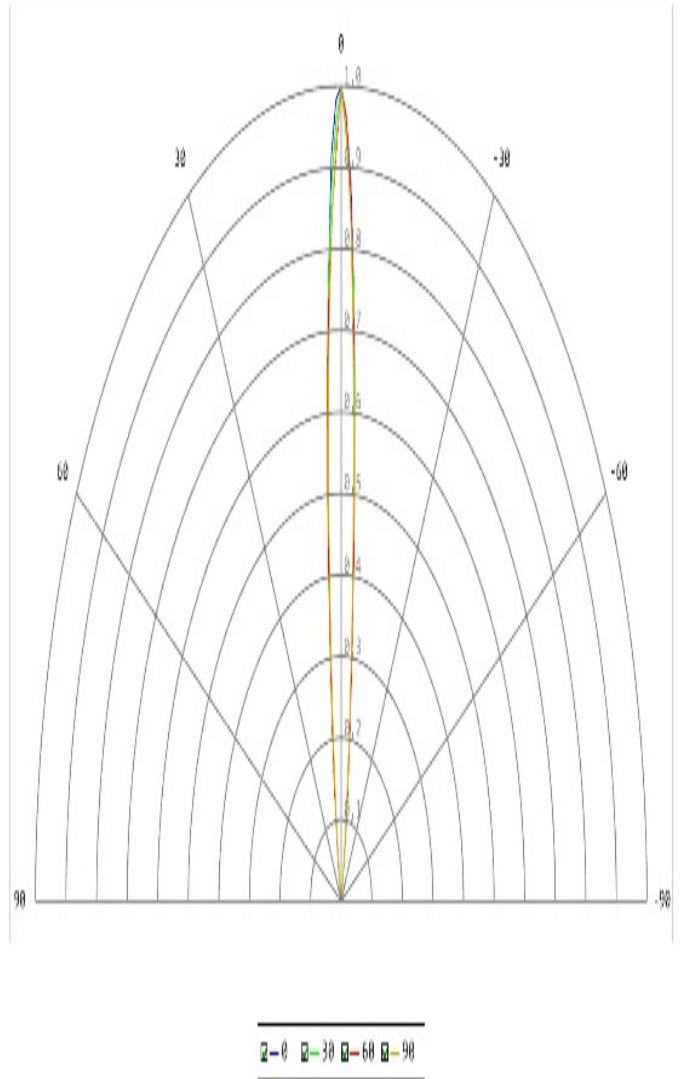


Detector Image: Radiant Intensity

27.4.2016
 Detector 5, NSCG Surface 1:
 Max polar angle: 90,00 deg, Total Hits = 814340
 Peak Intensity : 2,453E+001 Watts/Steradian
 Total Power : 9,531E-001 Watts

Zemax
 Zemax OpticStudio 15.5 SP2

CA11959_LAURA-RS-PIN_(SFH_47265)_SIMULATED.zmx
 Configuration 1 of 1

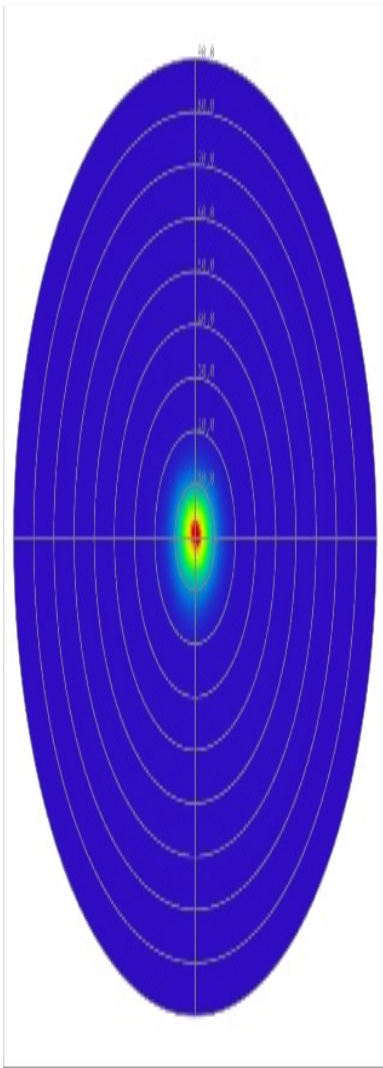


Detector Image: Radiant Intensity

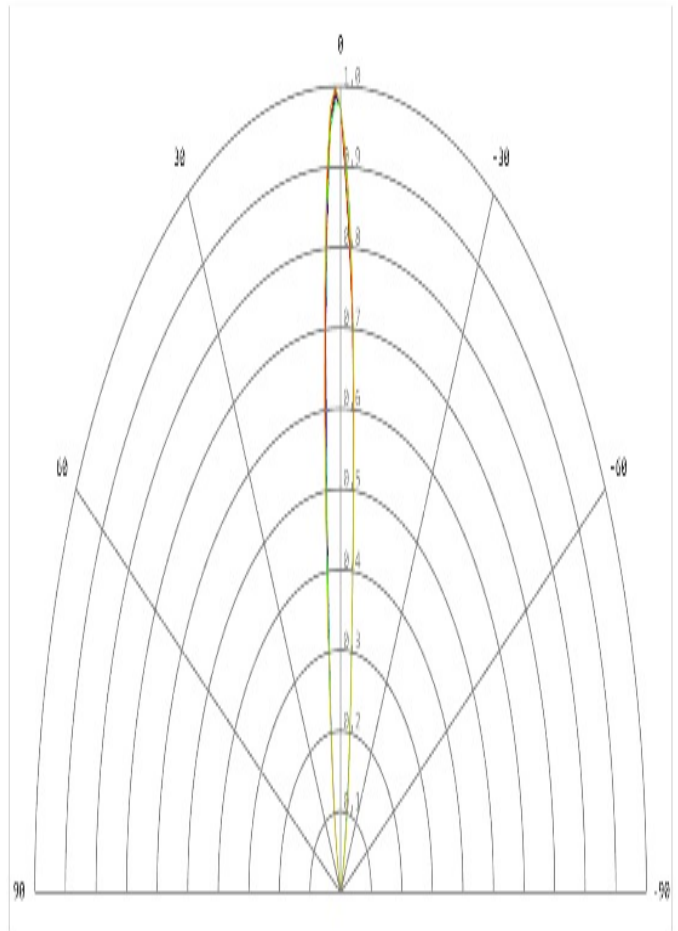
27.4.2016
 Detector 5, NSCG Surface 1:
 Scan Angles: 0, 30, 60, 90
 Peak Intensity : 2,453E+001 Watts/Steradian

Zemax
 Zemax OpticStudio 15.5 SP2

CA11959_LAURA-RS-PIN_(SFH_47265)_SIMULATED.zmx
 Configuration 1 of 1



Detector Image: Radiant Intensity

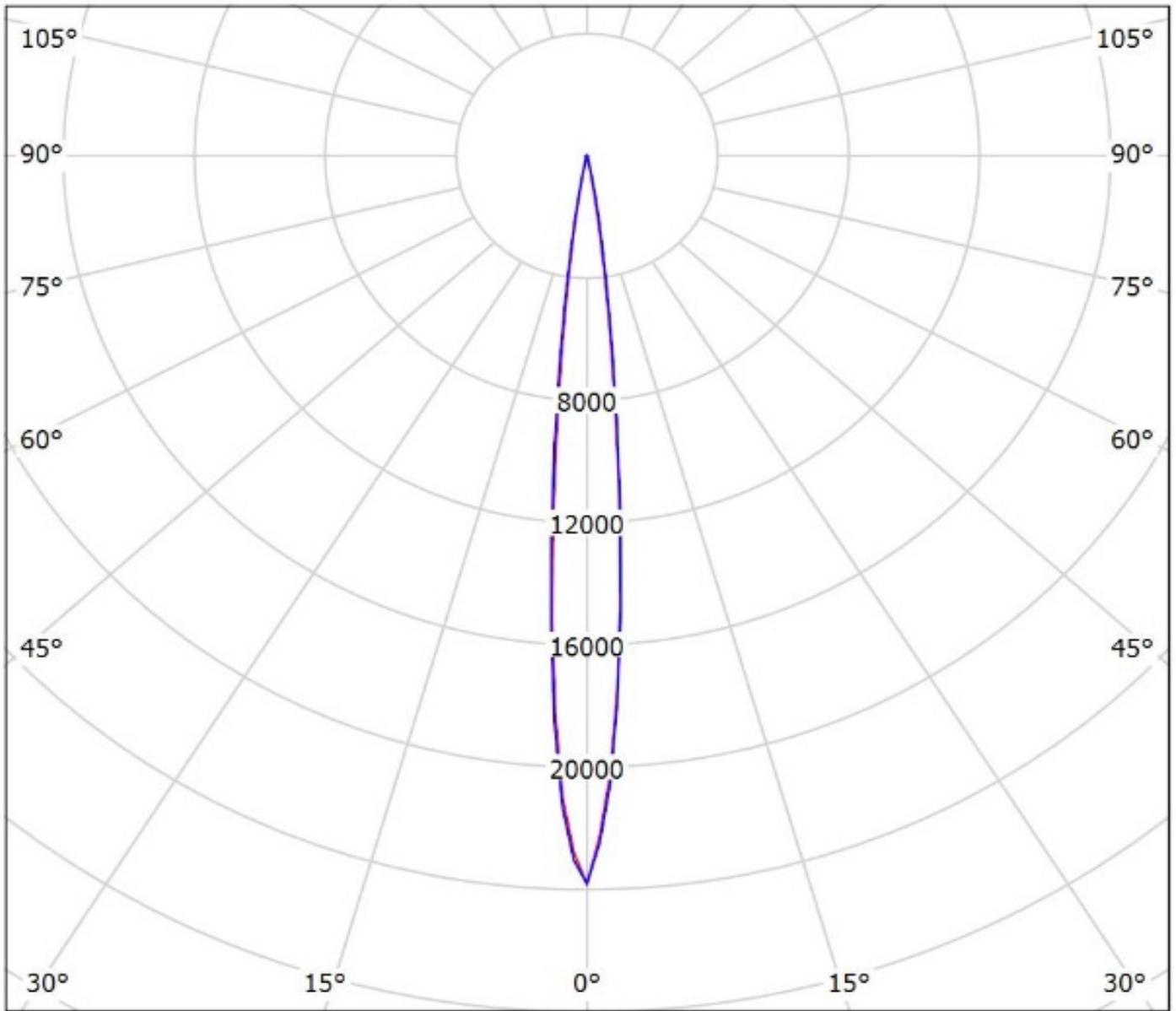


Detector Image: Radiant Intensity

0 30 60 90

| Detector Image: Radiant Intensity | | Detector Image: Radiant Intensity | |
|--|--|---|--|
| 27.4.2016 | Zemax Zemax OpticStudio 15.5 SP2 | 27.4.2016 | Zemax Zemax OpticStudio 15.5 SP2 |
| Detector 5, NSCG Surface 1: | | Detector 5, NSCG Surface 1: | |
| Max polar angle: 90,00 deg, Total Hits = 1594037 | | Scan Angles: 0, 30, 60, 90 | |
| Peak Intensity : 1,771E+001 Watts/Steradian | | Peak Intensity : 1,758E+001 Watts/Steradian | |
| Total Power : 9,480E-001 Watts | CA11959_LAURA-NS-P2N_(SPH_47705)_SIMULATED.zmx Configuration 1 of 1 | | CA11959_LAURA-NS-P2N_(SPH_47705)_SIMULATED.zmx Configuration 1 of 1 |

Luminaire: Ledil Oy CA11959_LAURA-RS-PIN_(SFH_4715AS)_SIMULATED
Lamps: 1 x Osram SFH 4715AS with 550 nm wavelength



cd/klm
— C0 - C180 — C90 - C270

$\eta = 96\%$

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.