PRODUCT DATASHEET
Tina series
last update 1/2/2016

DETAILS



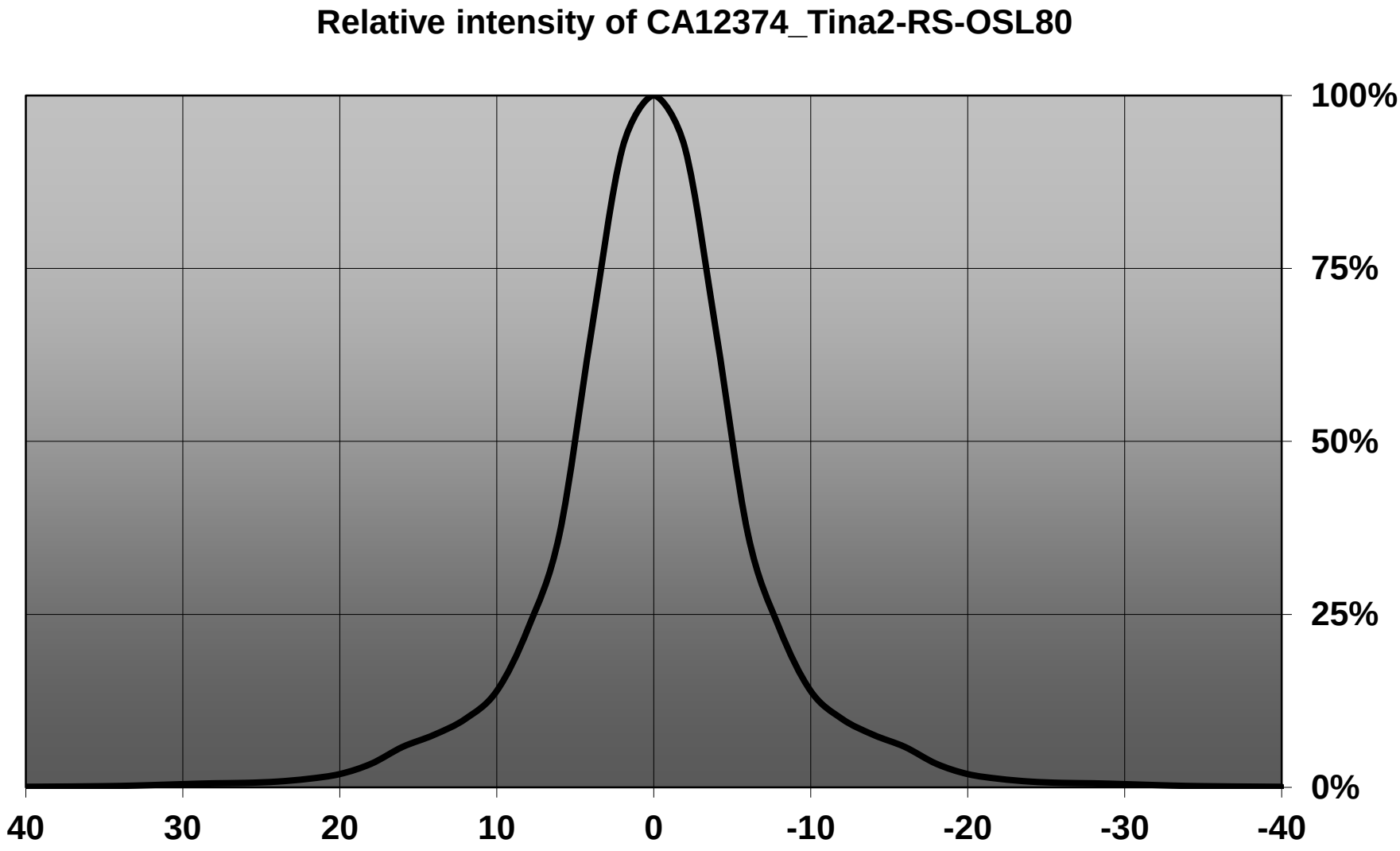
Product Number	CA12374_TINA2-RS
Family	Tina
Type	Assembly
Color	black
Diameter	16 mm
Height	9,5 mm
Style	round
Optic Material	PMMA
Holder Material	
Fastening	tape, pin
Status	production ready
ROHS Comliant	Yes
Date Updated	1/02/2016

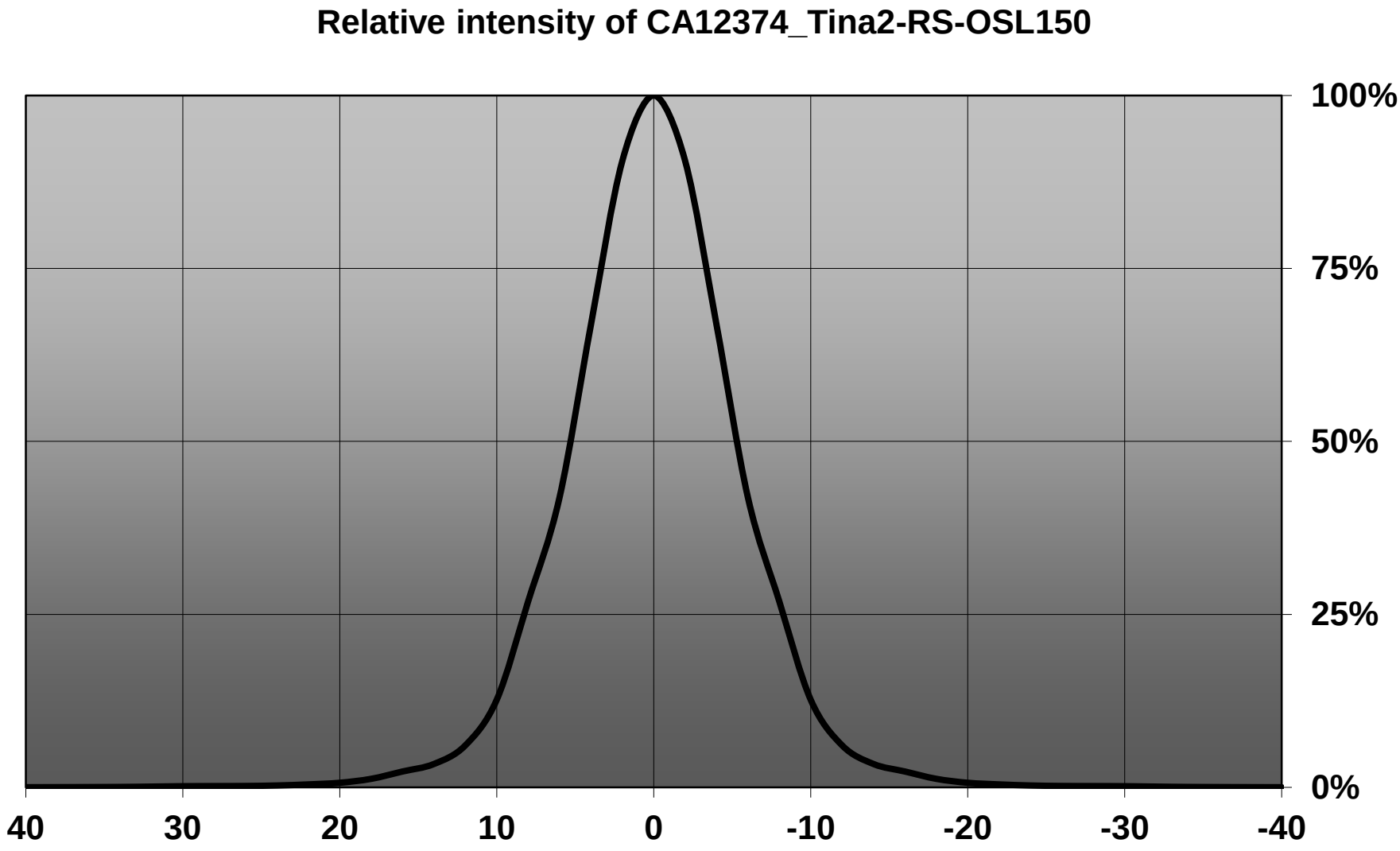
OPTICAL PROPERTIES

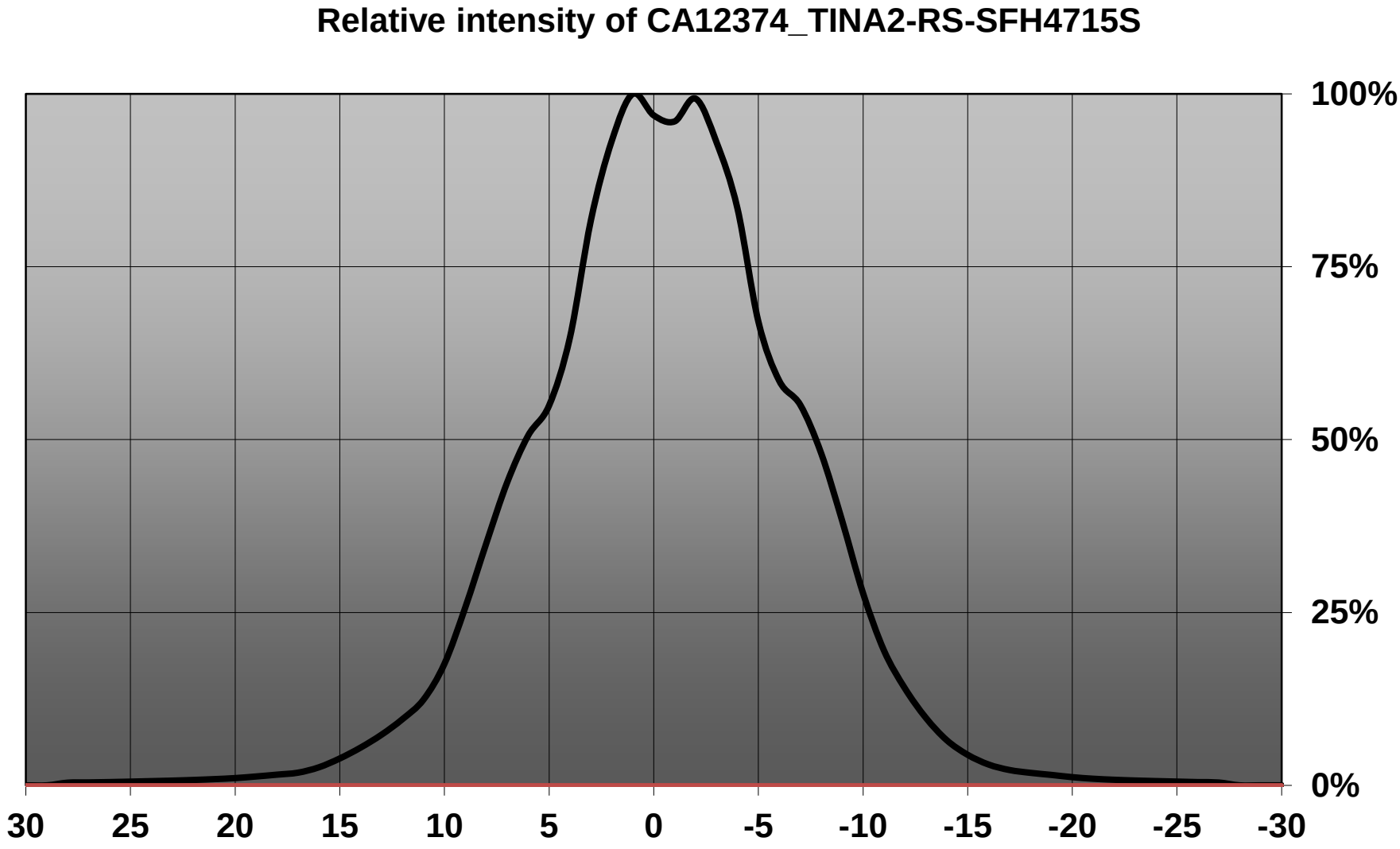
LED	Viewing Angle	Light Beam	Effi-ciency	cd/lm	Connector
XB-H	17 deg	Real spot	86 %	8.700	-
XQ-E HI	9 deg	Real spot	81 %	25.000	-
LUXEON TX	15 deg	Real spot	89 %	9.860	-
LUXEON C	sim: 11	Real spot	sim: 92 %	sim: 14.000	-
NWSx229A	25 deg	Real spot	86 %	3.600	-
NVSxx19B/NVSxx19C	18 deg	Real spot	88 %	7.000	-
Oslon SSL 80	10 deg	Real spot	88 %	16.000	-
Oslon SSL 150	11 deg	Real spot	90 %	19.500	-
Oslon Square PC	12 deg	Real spot	88 %	9.210	-
SFH 4715S	14 deg	Real spot	-	-	-
Oslon Square EC	13 deg	Real spot	88 %	9.300	-
SFH 4716S	11 deg	Real spot	-	-	-
SFH 4770S	sim: 16	Real spot	sim: 87 %	sim: 9.200	-
Synios P2720 1 mm	sim: 10	Real spot	sim: 92 %	sim: 20.340	-
Synios P2720 1/2 mm	sim: 9	Real spot	sim: 92 %	sim: 24.030	-
Synios P2720 1/4 mm	sim: 8	Real spot	sim: 92 %	sim: 27.470	-
Oslon Black Flat	sim: 8,6	Real spot	sim: 92 %	sim: 32.400	-

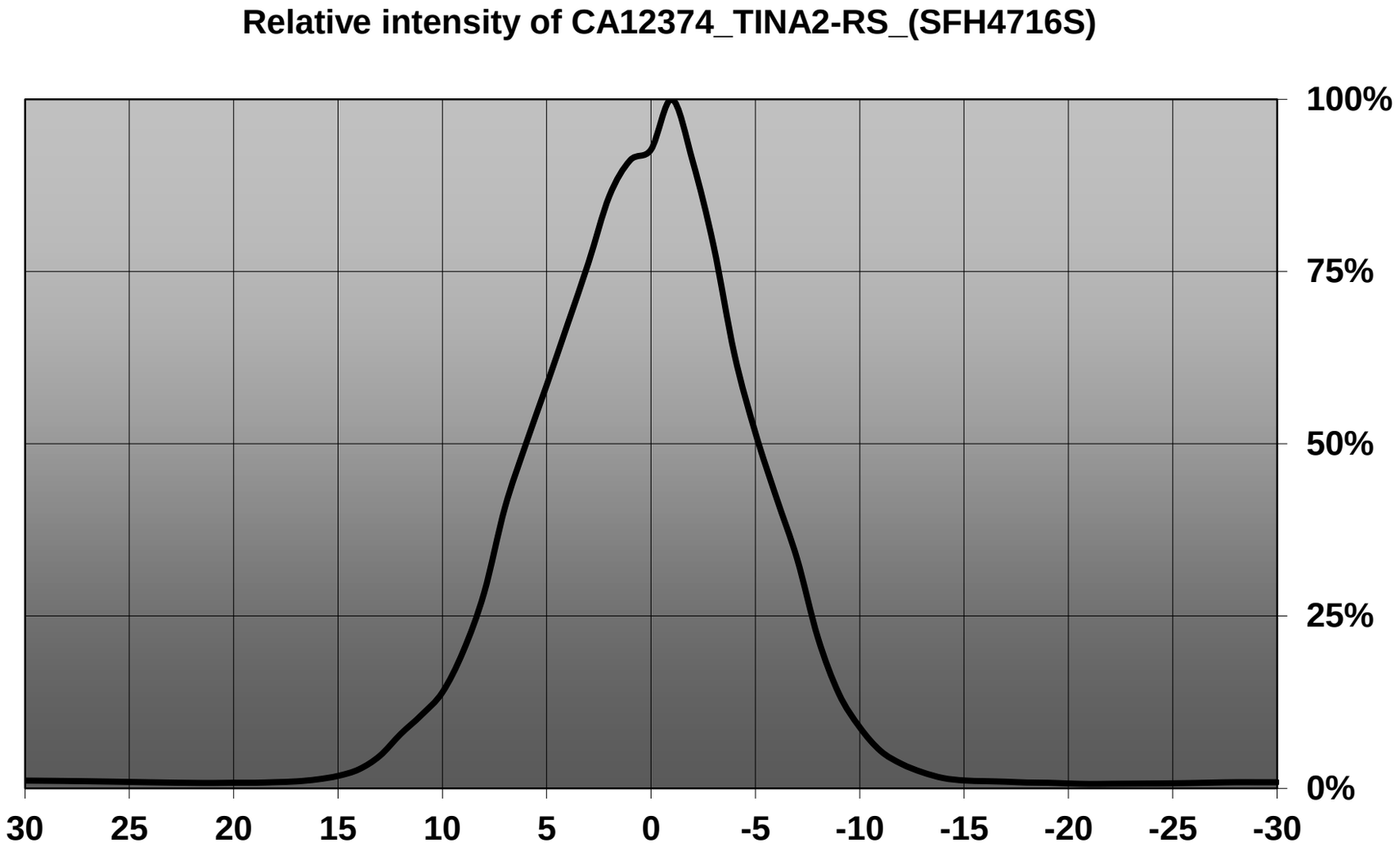
Ledil Oy
Salorankatu 10
24240 SALO, Finland

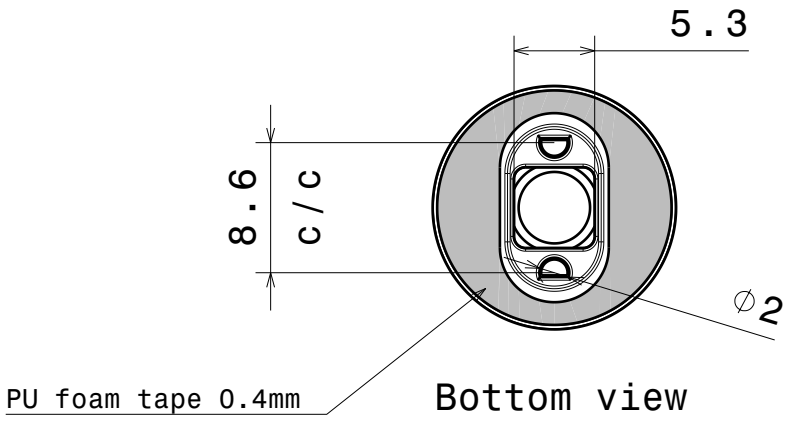
http://www.ledil.com
email: ledil@ledil.com
FAX: +358-2-733 8001


Relative intensity of CA12374_Tina2-RS-OSL80
100%
75%
50%
25%
0%
40
30
20
10
0
-10
-20
-30
-40

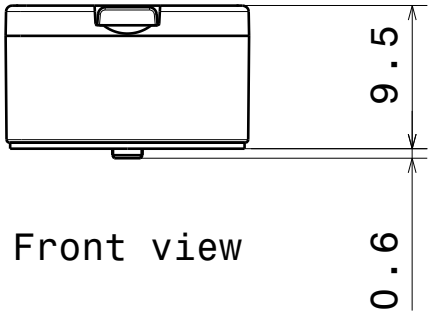

Relative intensity of CA12374_Tina2-RS-OSL150
100%
75%
50%
25%
0%
40
30
20
10
0
-10
-20
-30
-40


Relative intensity of CA12374_TINA2-RS-SFH4715S
100%
75%
50%
25%
0%
30
25
20
15
10
5
0
-5
-10
-15
-20
-25
-30

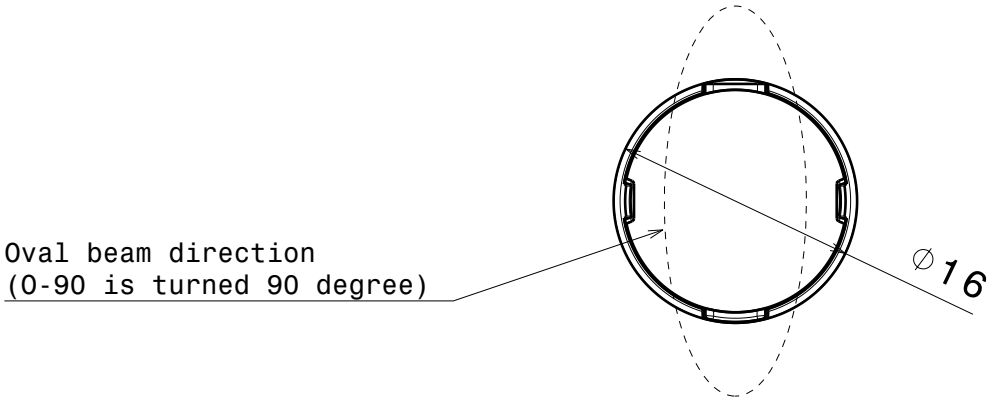

Relative intensity of CA12374_TINA2-RS_(SFH4716S)
100%
75%
50%
25%
0%
30
25
20
15
10
5
0
-5
-10
-15
-20
-25
-30



Bottom view



Front view



Top view

INDEX	PART NO	DESCRIPTION	MATERIAL	COLOUR
1	C12372	TINA2-HLD-BLK	PC	black
2	-	TINA2-XP lens	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 Oy
Salorankatu 10
FIN 24240 SALO
Finland

THIRD ANGLE PROJECTION:

DRAWING TITLE

TINA2-XP series

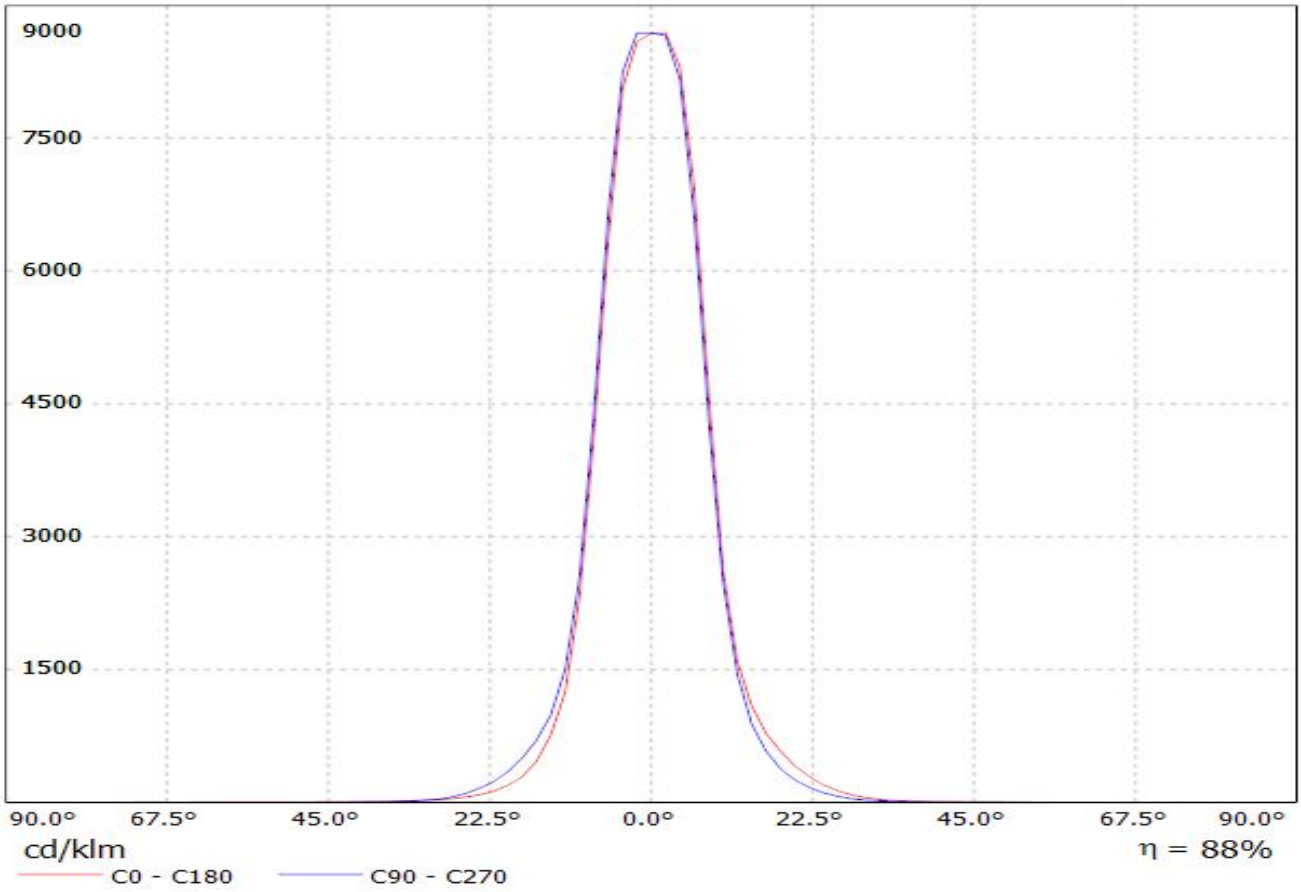
This drawing is the property of LEDiL Oy. It may not be reproduced, copied or communicated without a written agreement with LEDiL Oy.

SIZE A4

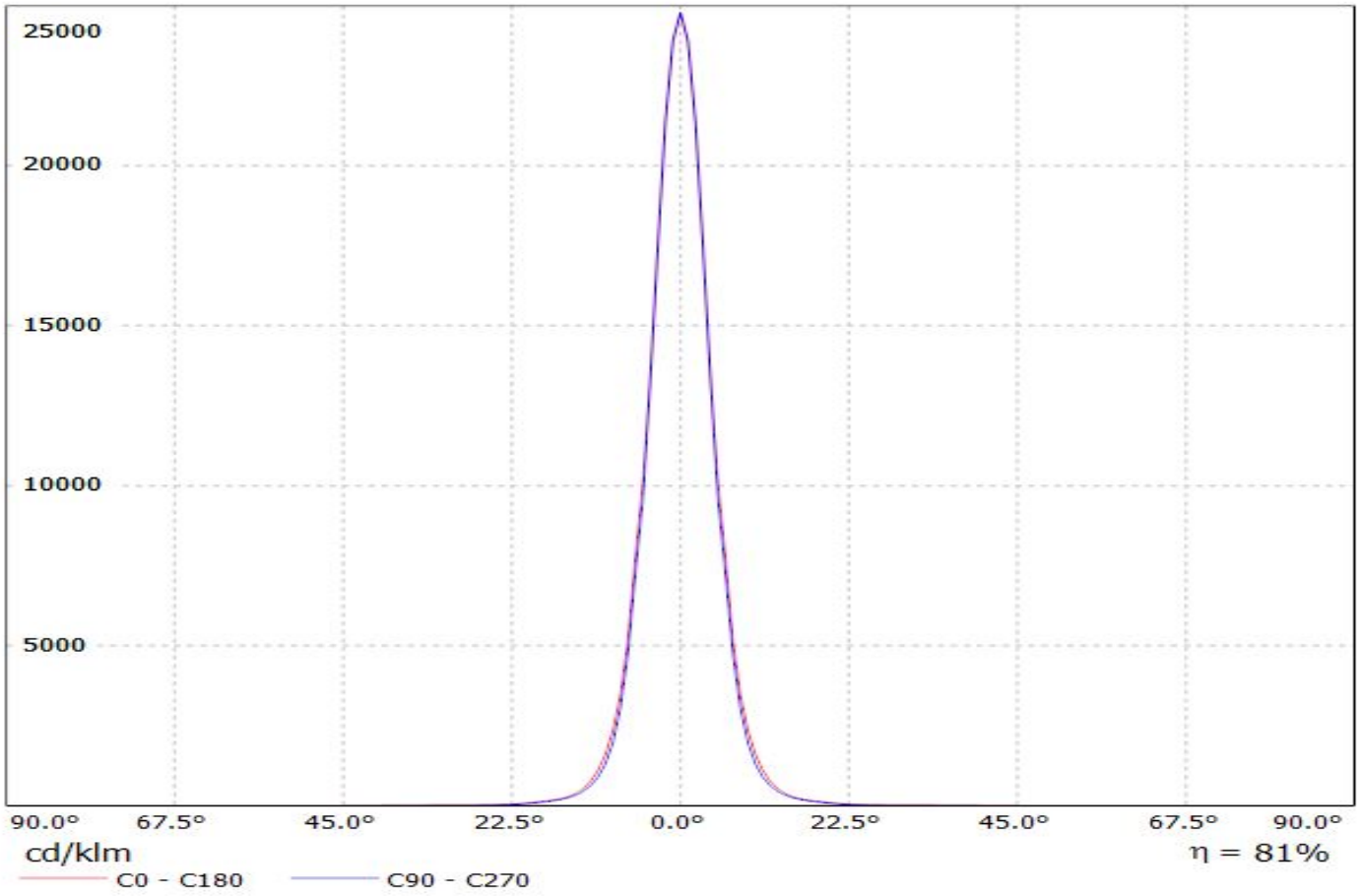
PART NUMBER -

SCALE 1:1 | WEIGHT 1,7 g | SHEET 1/1

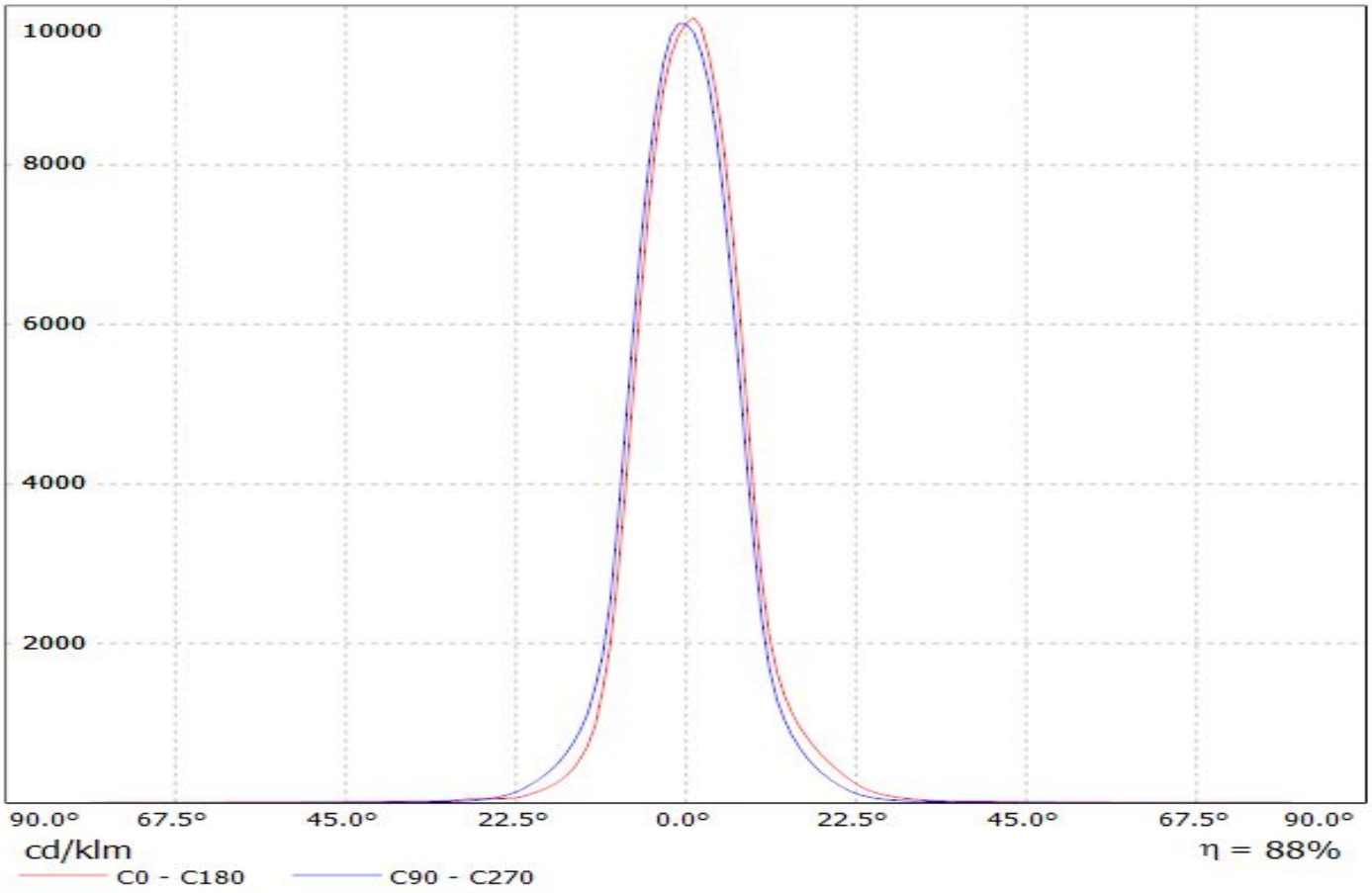
Luminaire: Ledil Oy CA12374_TINA2-RS_(XB-H)
Lamps: 1 x Cree XB-H (XBHAWT-0-3C0-T50-0B-0001) 106lm @ 250mA CCT= P=0.73W I=250mA



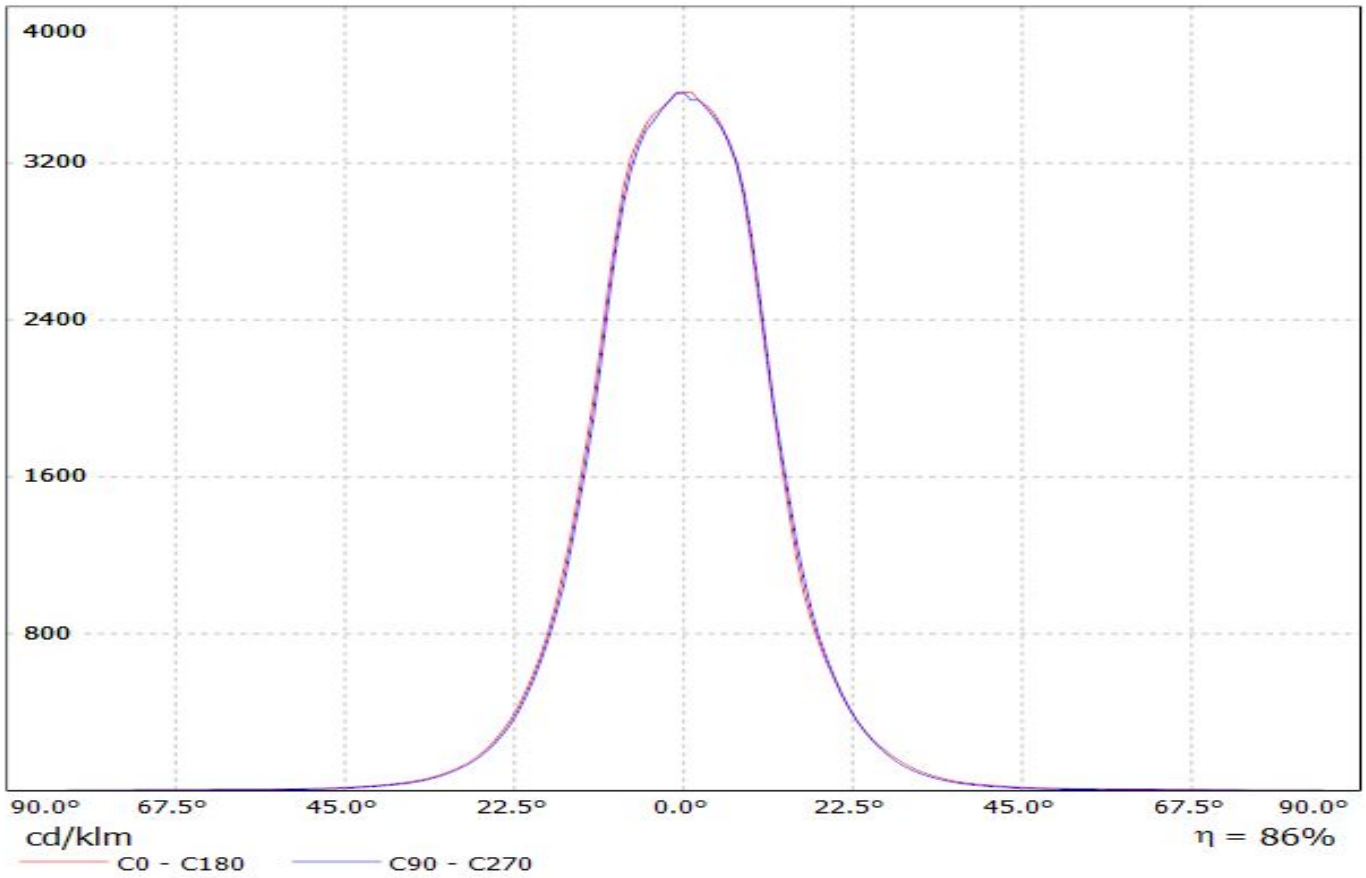
Luminaire: LEDiL Oy
Lamps: 1 x CA12374_TINA2-RS_(XQ-E_HI)



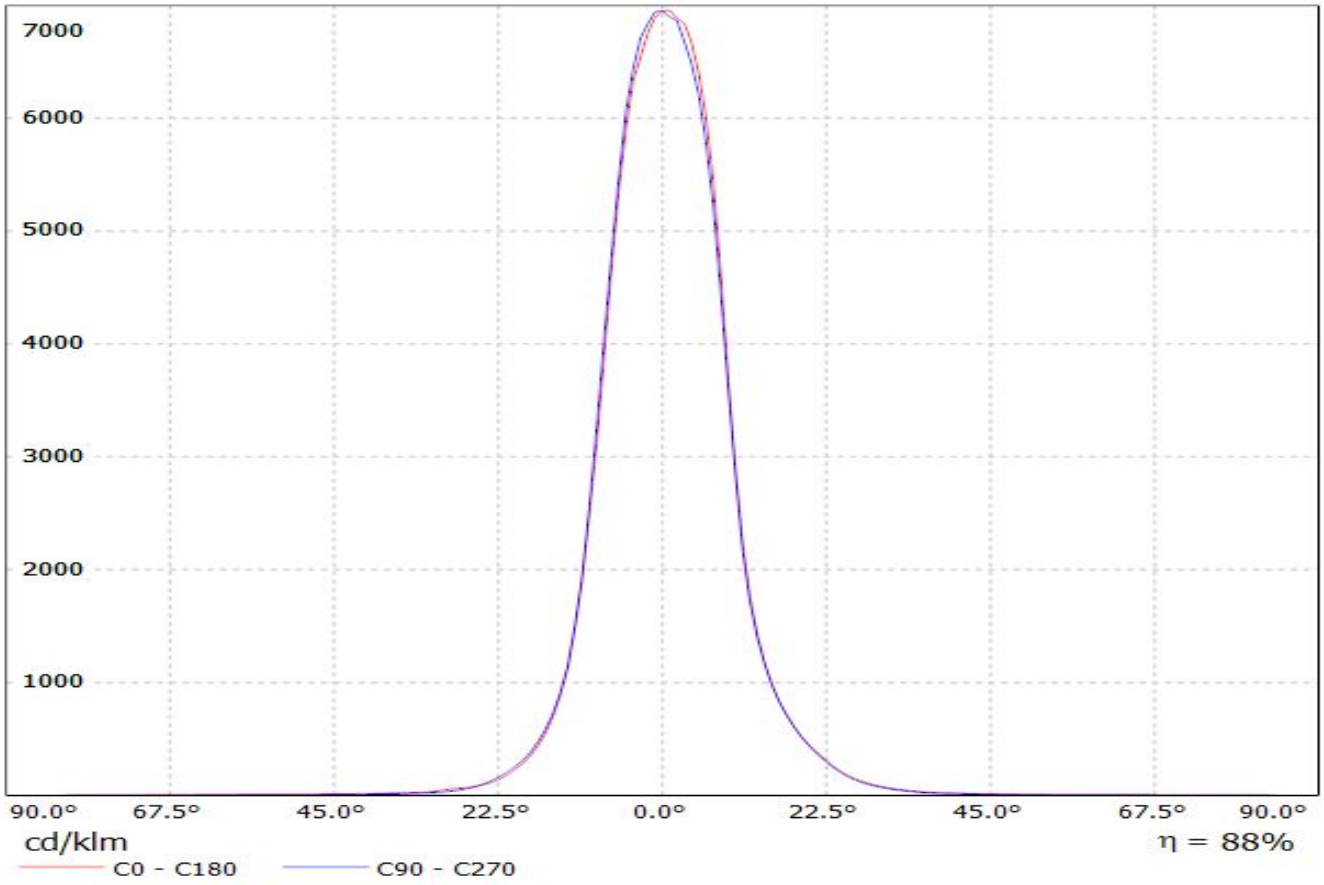
Luminaire: LEDiL Oy CA12374_TINA2-RS_(TX)
Lamps: 1 x Luxeon_TX_(L1T2-5770)_109.051lm@250mA_P=0.732157W_I=0.2499A



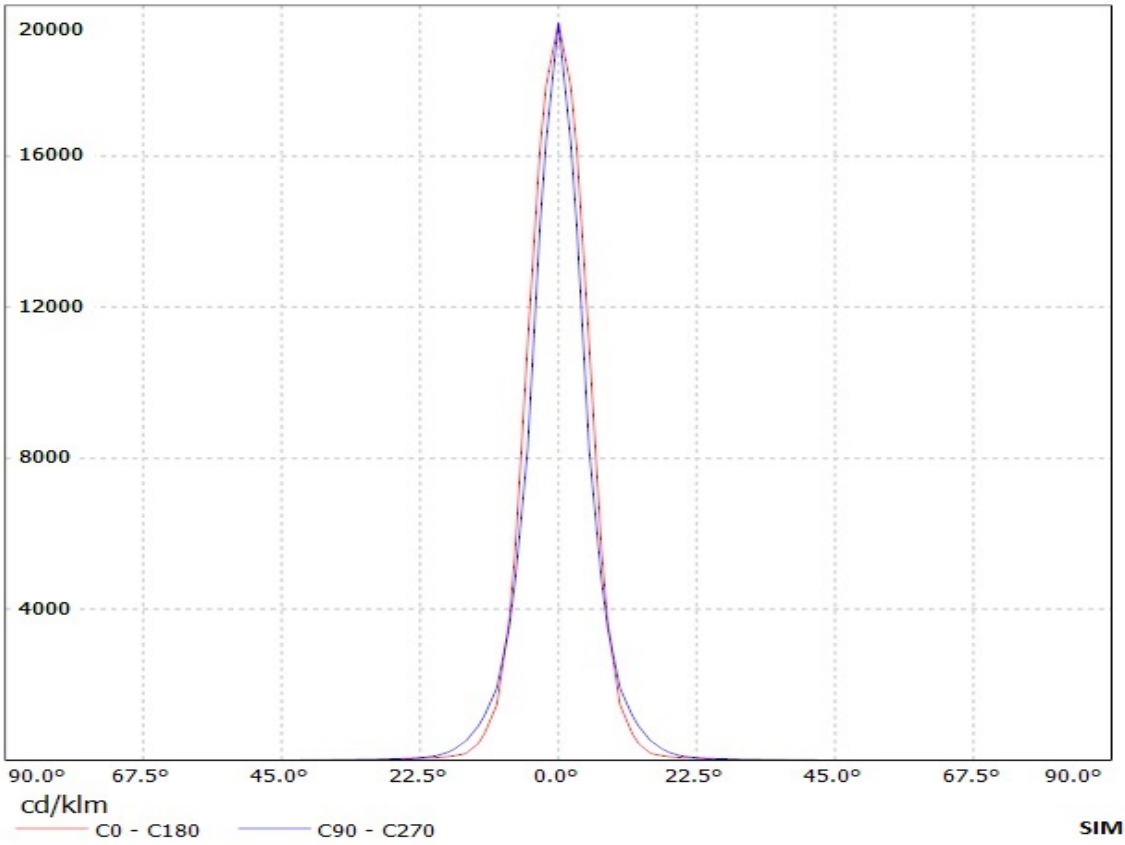
Luminaire: LEDiL Oy CA12374_TINA2-RS_(NWSL229AE)
Lamps: 1 x Nichia_NWSL229AE_120.54lm@250mA_P=0.7128W_I=0.250A



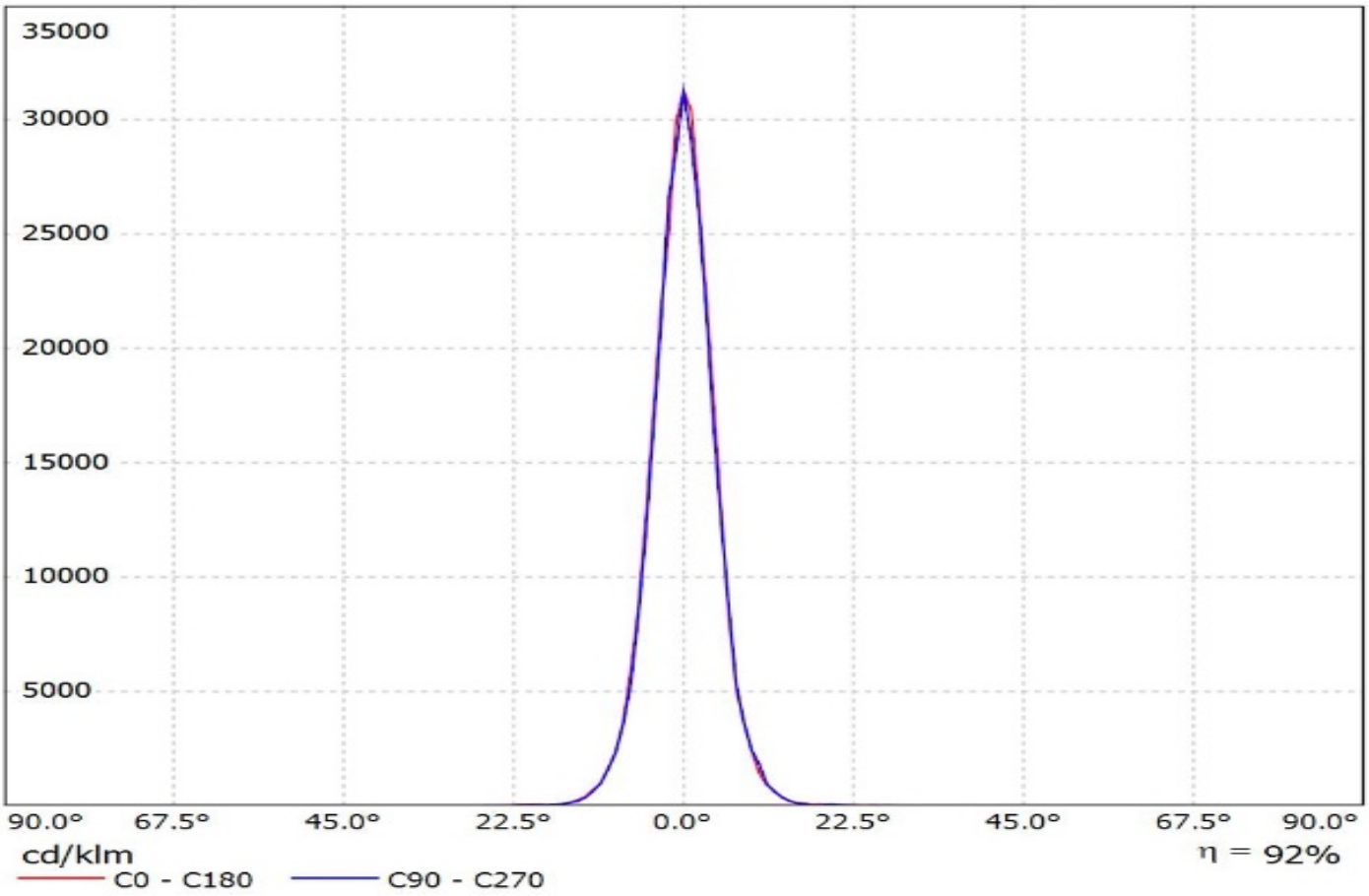
Luminaire: LEDiL Oy CA12374_TINA2-RS_(NVSL219CE)
Lamps: 1 x Nichia_NVSL219CE_101.227lm@250mA_P=0.713404W_I=0.25A



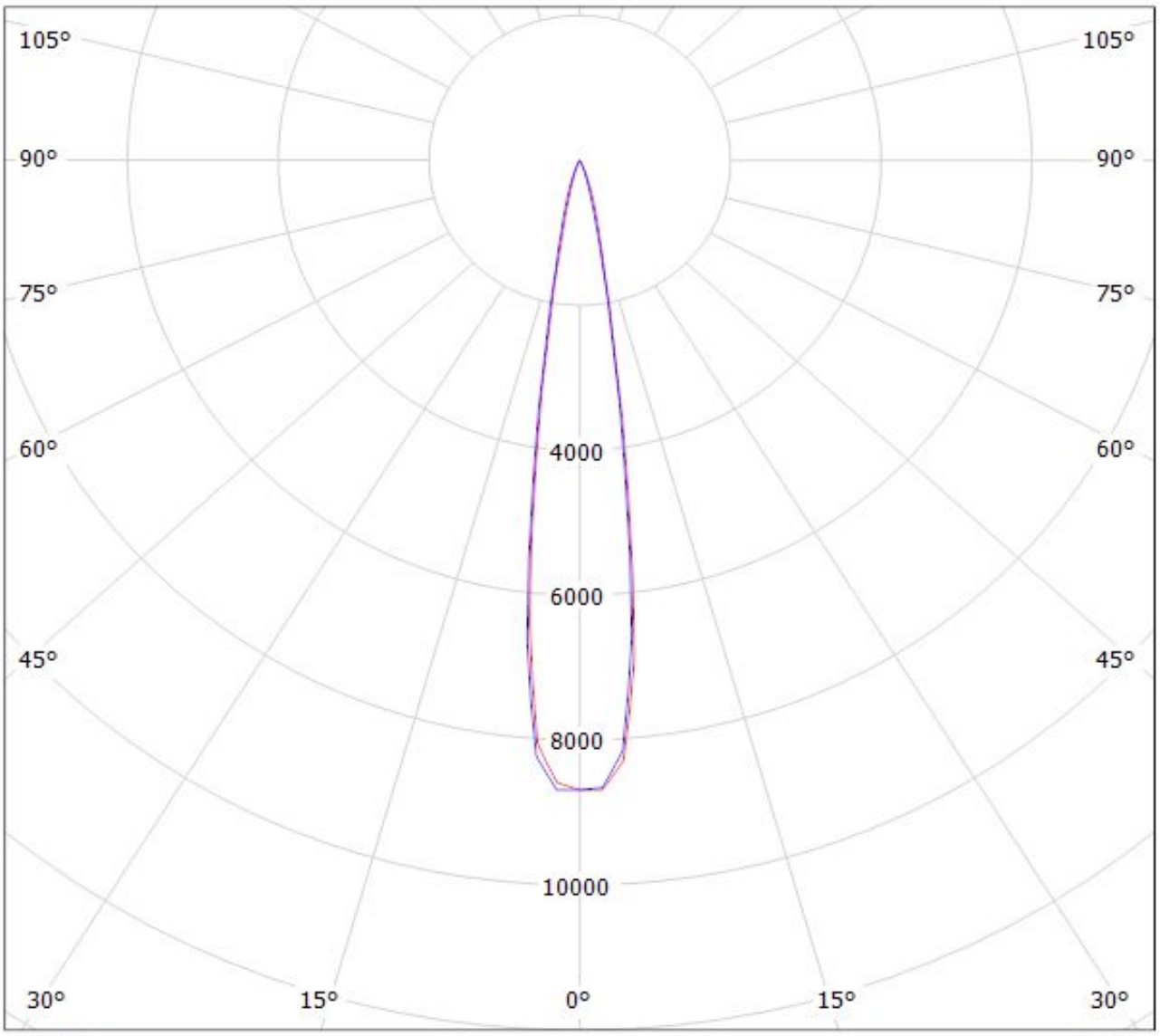
Luminaire: Ledil Oy CA12374_Tina2-RS-OSL150 LOR=90%
Lamps: 1 x Osram OSL 150 110lm 250mA



Luminaire: Ledil Oy CA12374_TINA2-RS_(Oslon_Black_Flat)_SIMULATED
Lamps: 1 x Osram Oslon Black Flat (LUW HWQP)



Luminaire: Ledil Oy CA12374_TINA2-RS_(XB-H)
Lamps: 1 x Cree XB-H (XBHAWT-0-3C0-T50-0B-0001) 106lm @ 250mA CCT= P=0.73W I=250mA

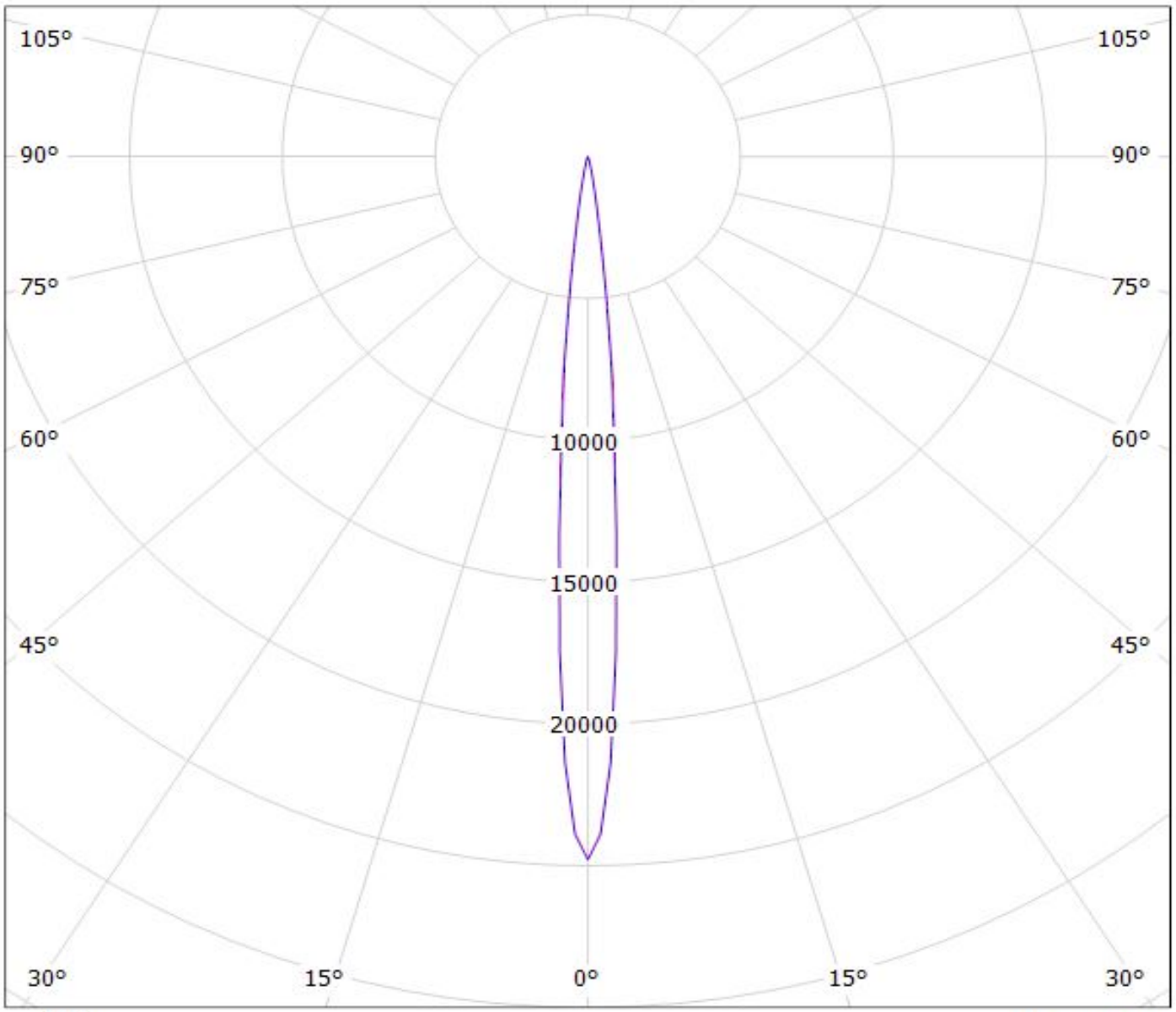


cd/klm

η = 88%

C0 - C180 C90 - C270

Luminaire: LEDiL Oy
Lamps: 1 x CA12374_TINA2-RS_(XQ-E_HI)

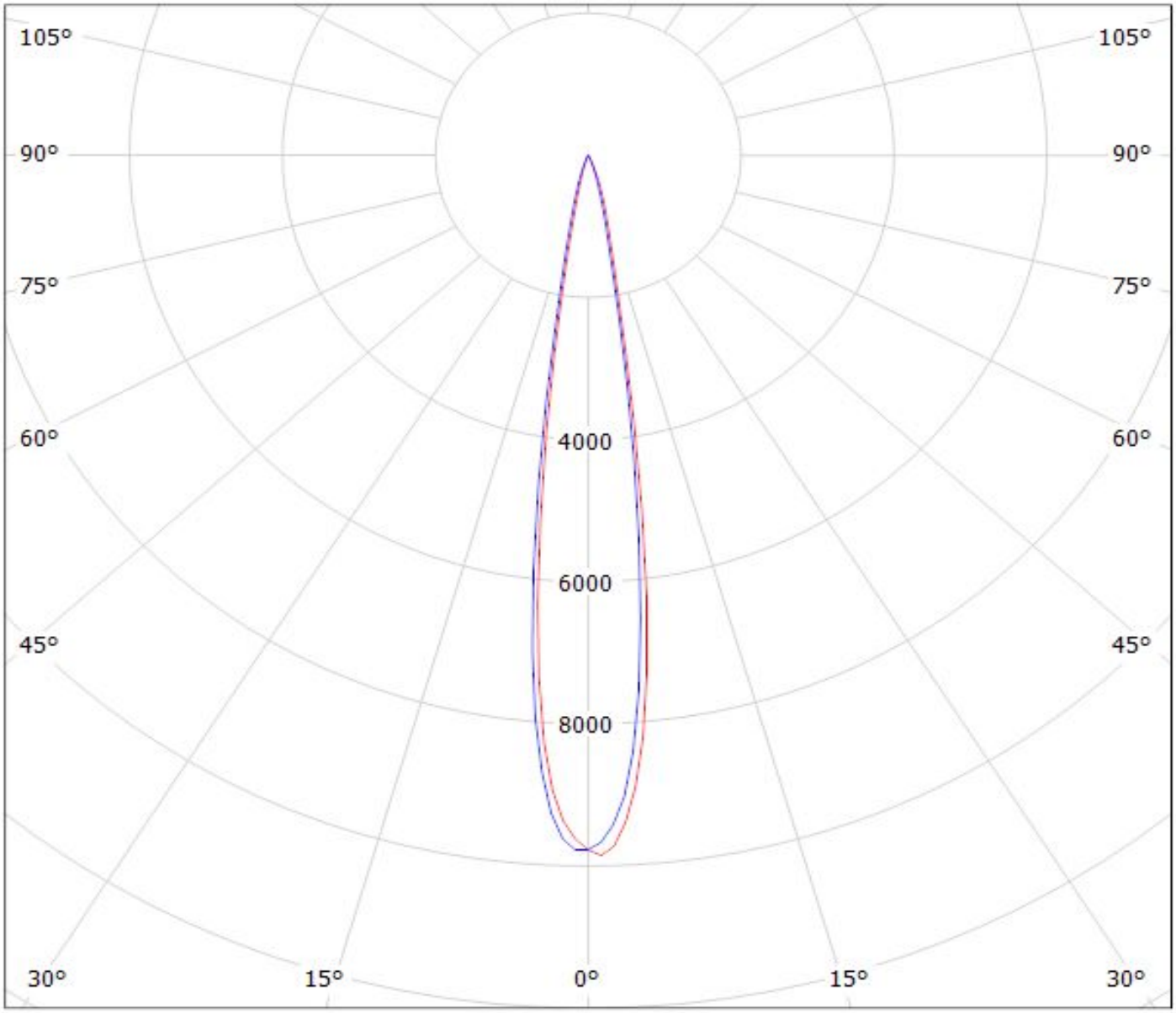


cd/klm

η = 81%

C0 - C180 C90 - C270

Luminaire: LEDiL Oy CA12374_TINA2-RS_(TX)
Lamps: 1 x Luxeon_TX_(L1T2-5770)_109.051lm@250mA_P=0.732157W_I=0.2499A

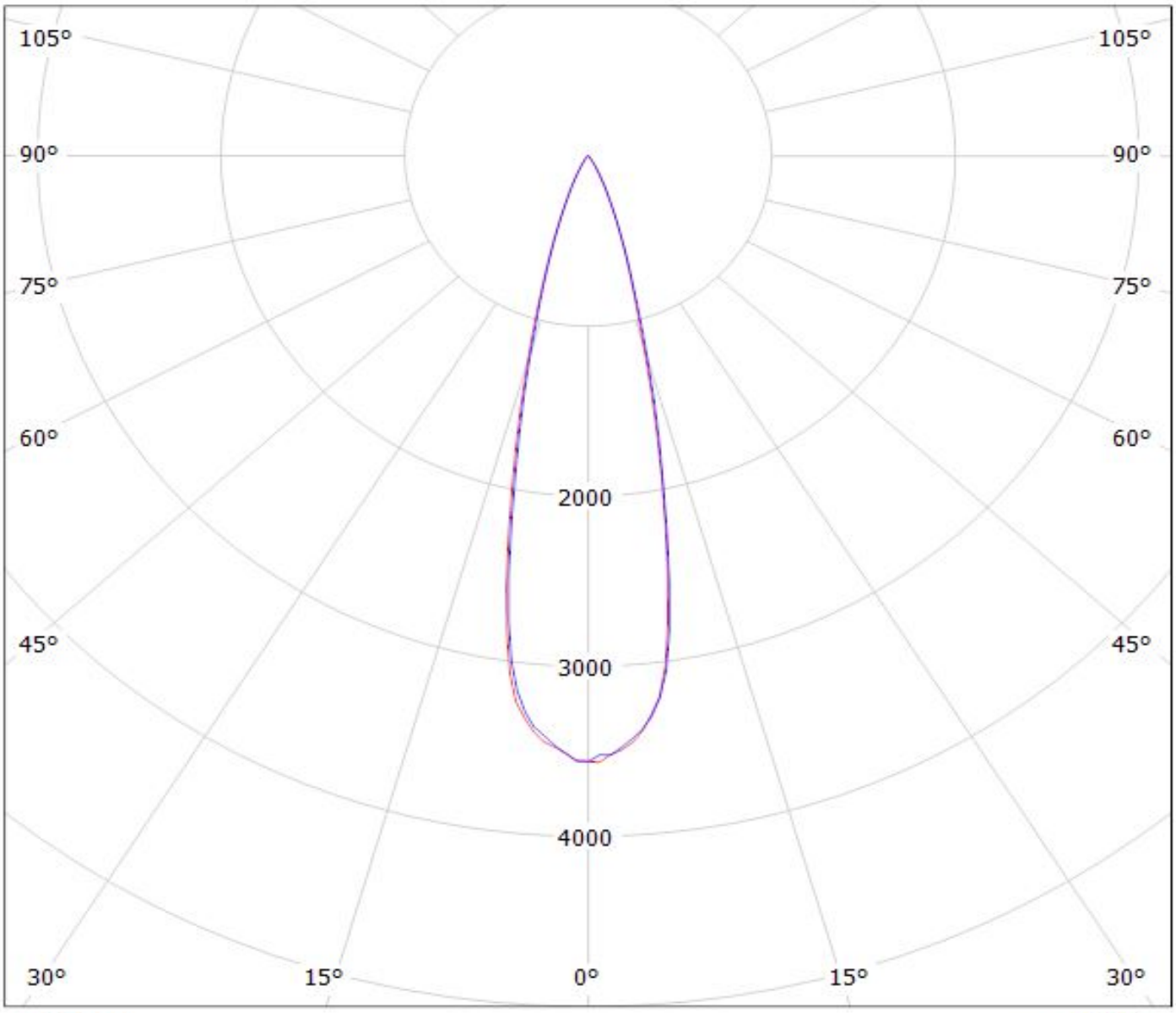


cd/klm

η = 88%

C0 - C180 C90 - C270

Luminaire: LEDiL Oy CA12374_TINA2-RS_(NWSL229AE)
Lamps: 1 x Nichia_NWSL229AE_120.54lm@250mA_P=0.7128W_I=0.250A

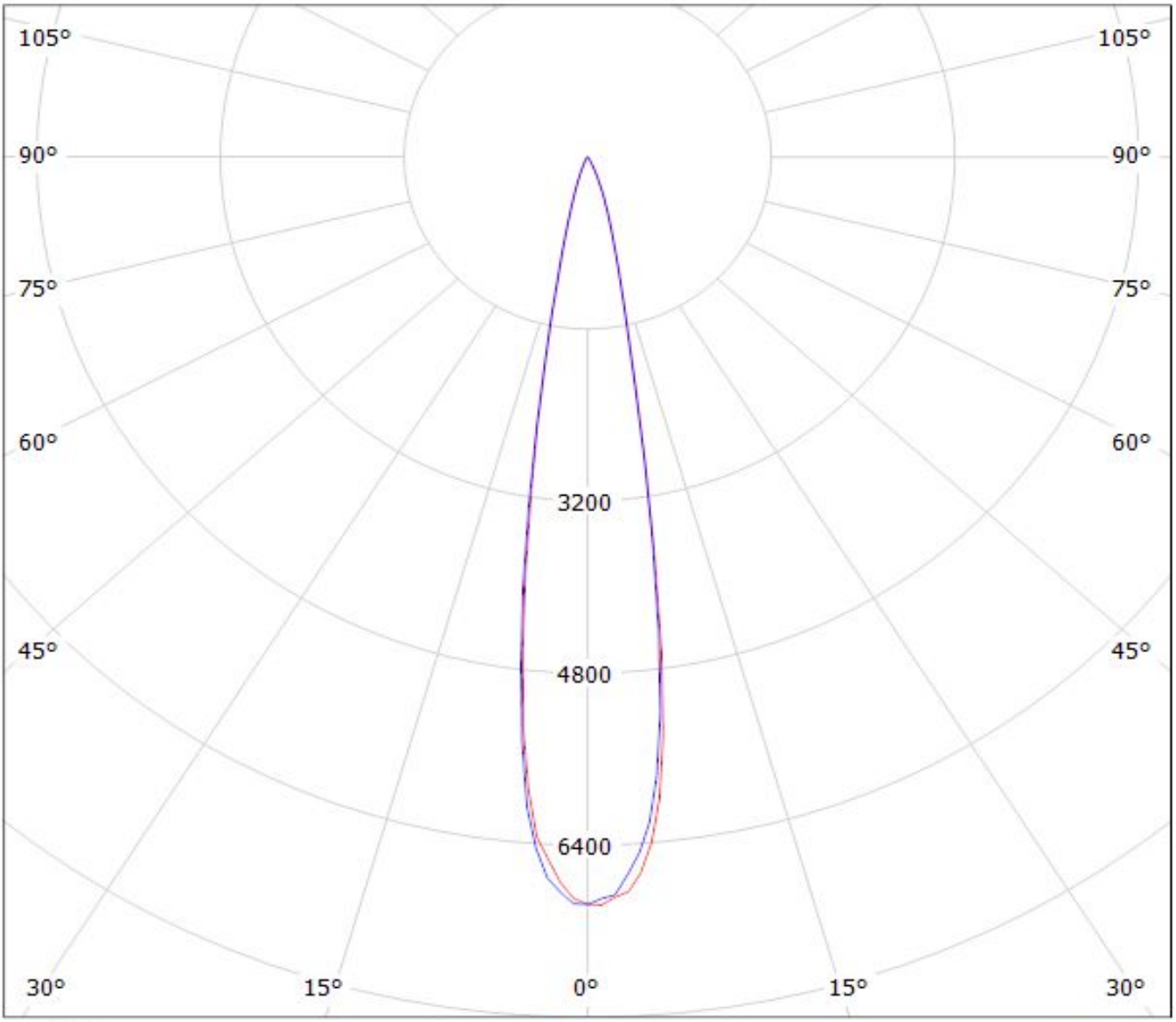


cd/klm

η = 86%

C0 - C180 C90 - C270

Luminaire: LEDiL Oy CA12374_TINA2-RS_(NVSL219CE)
Lamps: 1 x Nichia_NVSL219CE_101.227lm@250mA_P=0.713404W_I=0.25A

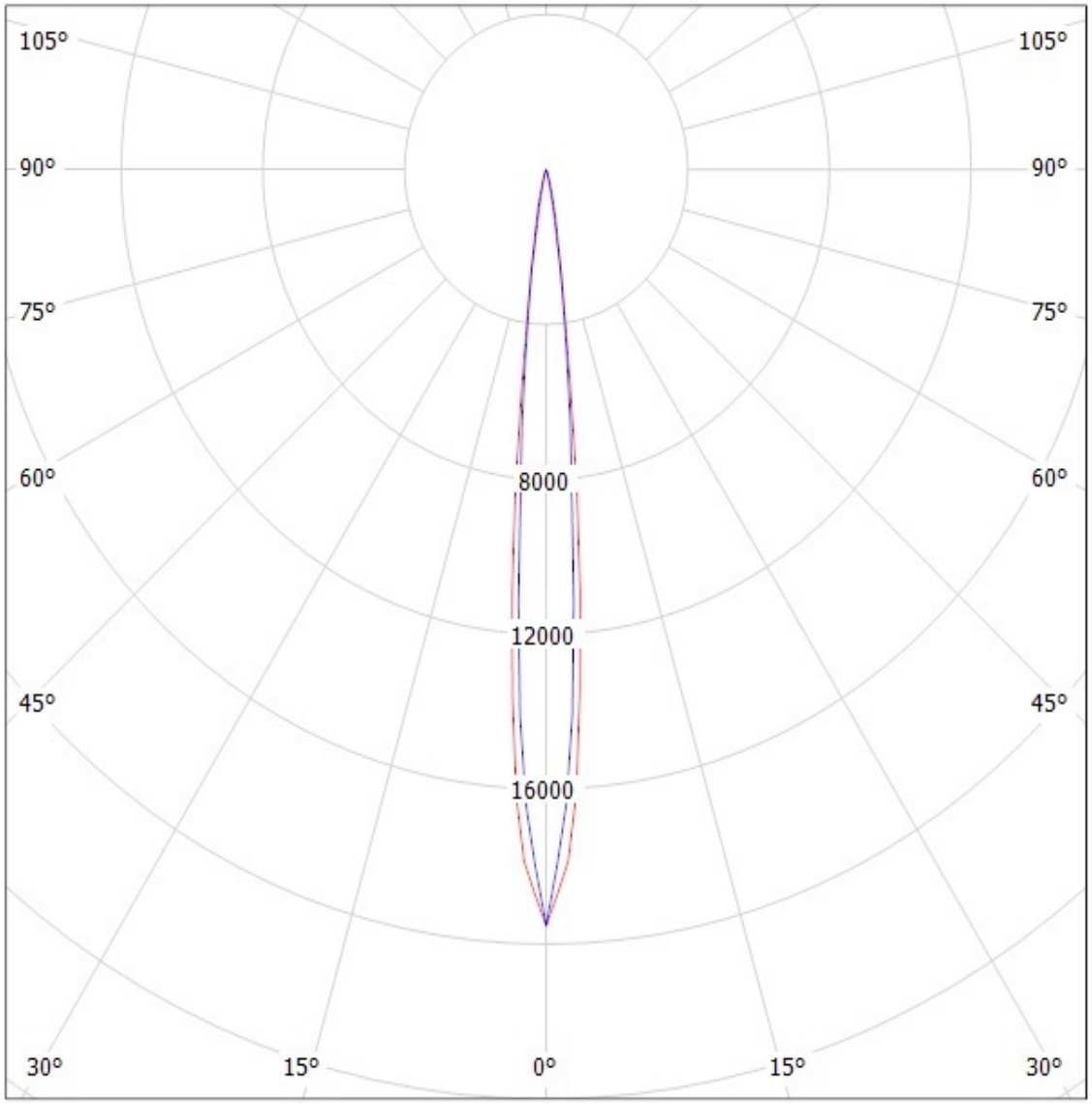


cd/klm

η = 88%

C0 - C180 C90 - C270

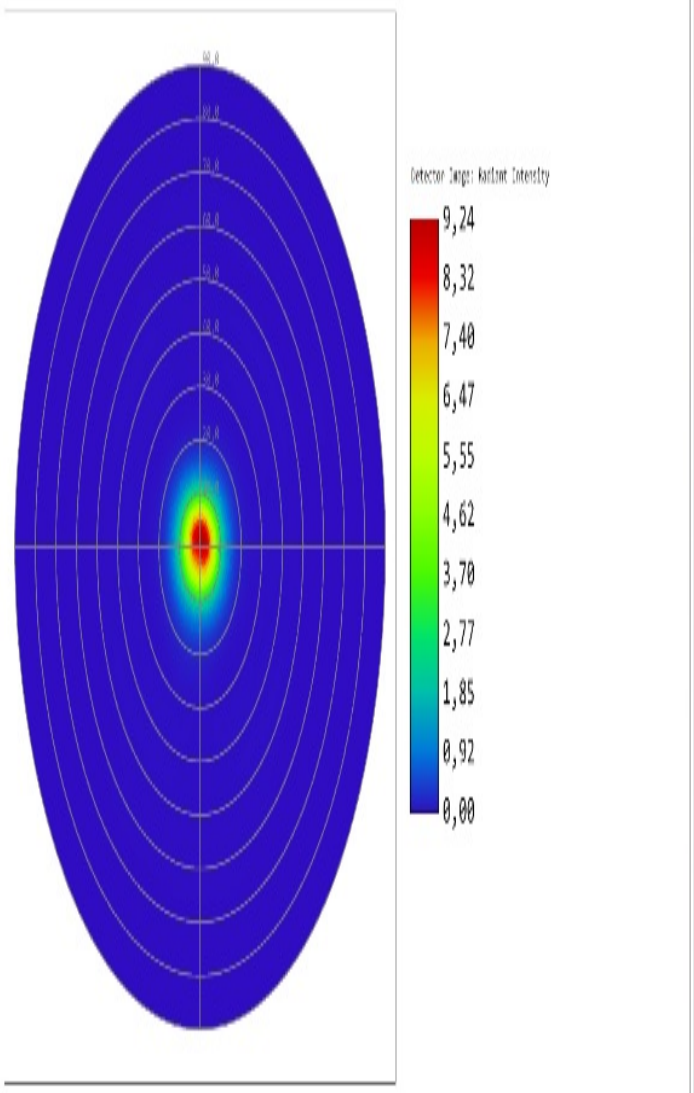
Luminaire: Ledil Oy CA12374_Tina2-RS-OSL150 LOR=90%
Lamps: 1 x Osram OSL 150 110lm 250mA



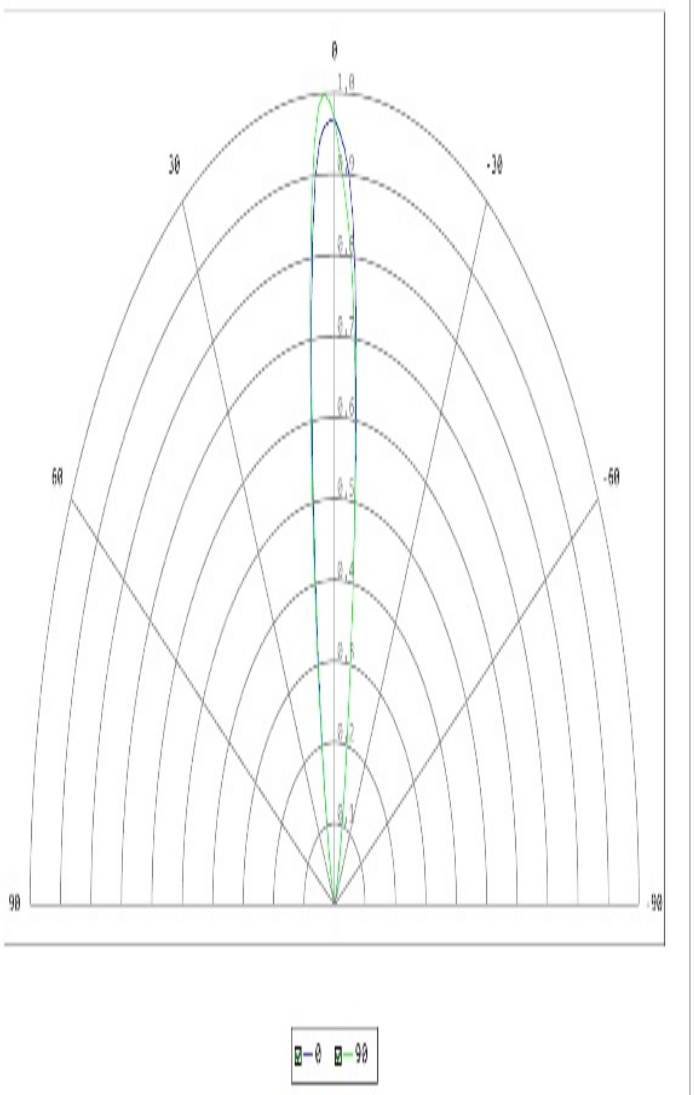
cd/klm

C0 - C180 C90 - C270

SIMULATED

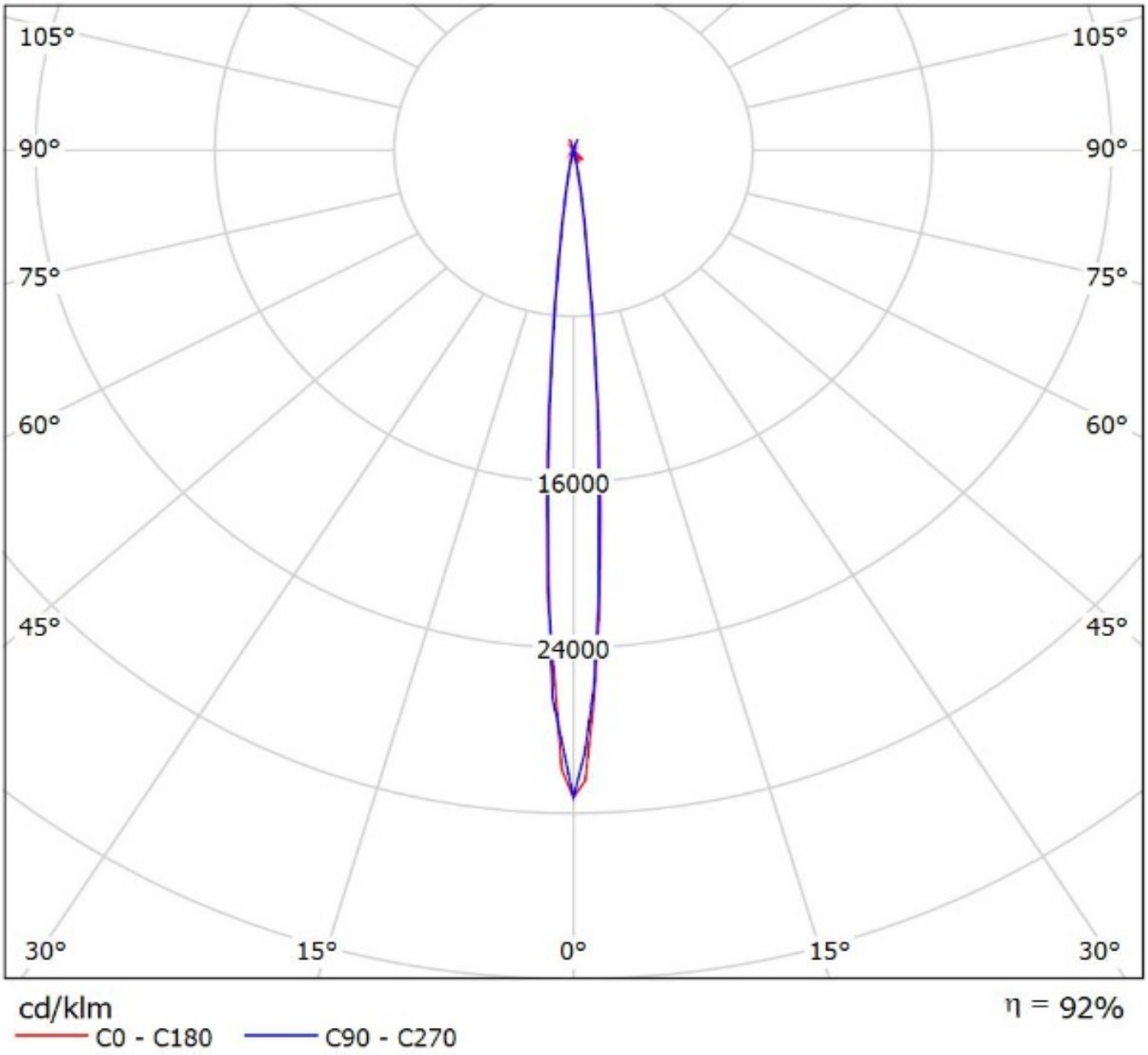


Detector Image: Radiant Intensity	
14.4.2016 Detector 5, NSCG Surface 1: Max polar angle: 90,00 deg, Total Hits = 867843 Peak Intensity : 9,244E+000 Watts/Steradian Total Power : 8,679E-001 Watts	Zemax Zemax OpticStudio 15.5 SP2 CA12374_TIWA2-RS_(SFH_47705)_SIMULATED.zmx Configuration 1 of 1



Detector Image: Radiant Intensity	
14.4.2016 Detector 5, NSCG Surface 1: Scan Angles: 0, 90 Peak Intensity : 9,227E+000 Watts/Steradian	Zemax Zemax OpticStudio 15.5 SP2 CA12374_TIWA2-RS_(SFH_47705)_SIMULATED.zmx Configuration 1 of 1

Luminaire: Ledil Oy CA12374_TINA2-RS_(Oslon_Black_Flat)_SIMULATED
Lamps: 1 x Osram Oslon Black Flat (LUW HWQP)



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.