PRODUCT DATASHEET
Tina series
last update 11/11/2016

DETAILS

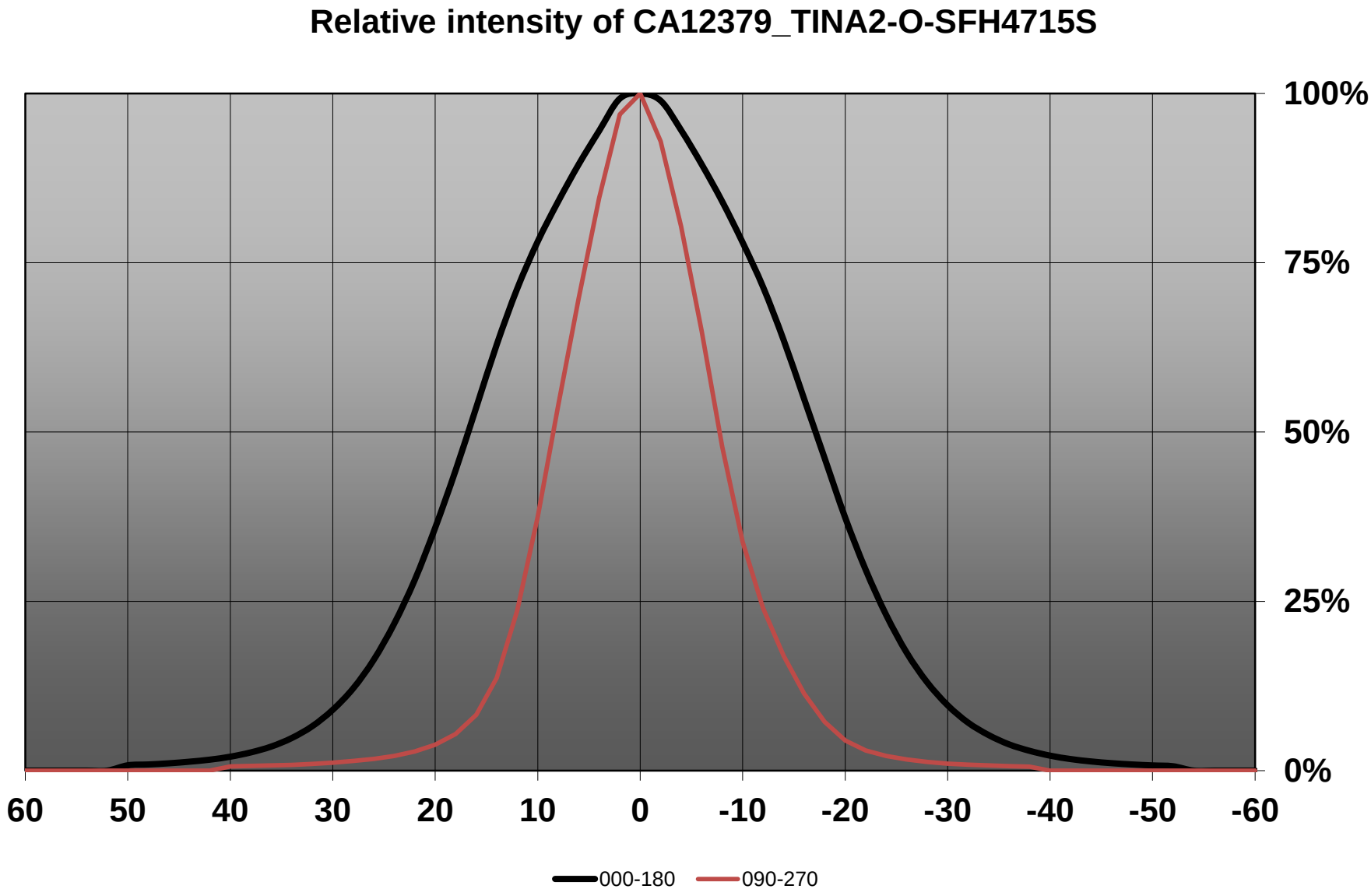
Product Number	CA12379_TINA2-O
Family	Tina
Type	Assembly
Color	black
Diameter	16 mm
Height	9,5 mm
Style	round
Optic Material	PMMA
Holder Material	
Fastening	tape, pin
Status	production ready
ROHS Comliant	Yes
Date Updated	11/11/2016

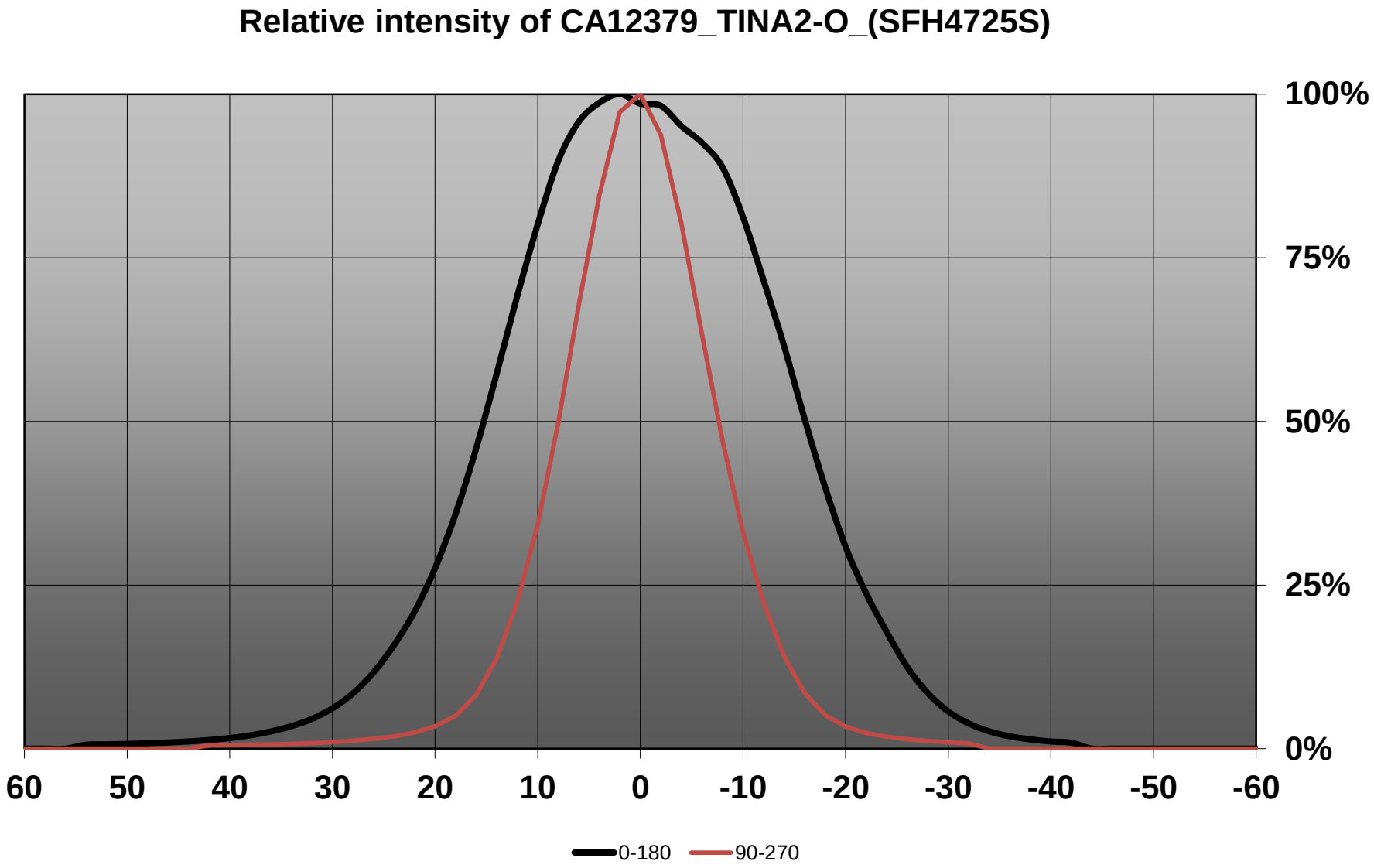
OPTICAL PROPERTIES

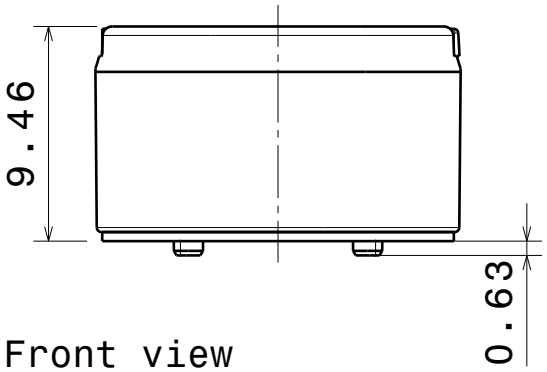
LED	Viewing Angle	Light Beam	Effi-ciency	cd/lm	Connector
XB-H	34+17 deg	Oval	84 %	3.900	-
XQ-E HI	33+13 deg	Oval	80 %	5.000	-
LUXEON Z ES	36+13 deg	Oval	85 %	5.300	-
LUXEON TX	32+16 deg	Oval	85 %	3.960	-
LUXEON C	sim: 14+37	Oval	sim: 93 %	sim: 4.200	-
NVSxx19B/NVSxx19C	sim: 39+17	Oval	sim: 86 %	sim: 3.300	-
NWSx229A	33+24 deg	Oval	82 %	2.500	-
SFH 4715S	40+16 deg	Oval	sim: 92 %	sim: 4.570	-
Oslon SSL 80	35+12 deg	Oval	86 %	3.800	-
Oslon Square PC	33+13 deg	Oval	87 %	3.750	-
Oslon SSL 150	38+13 deg	Oval	87 %	3.700	-
Oslon Square EC	33+17 deg	Oval	84 %	3.920	-
SFH 4725S	31+16 deg	Oval	-	-	-
Duris S5 (2 chip)	sim: 41+17	Oval	sim: 91 %	sim: 3.630	-
SFH 4770S	sim: 41+16	Oval	sim: 85 %	sim: 3.500	-
Synios P2720 1 mm	sim: 41+11	Oval	sim: 91 %	sim: 5.480	-
Synios P2720 1/4 mm	sim: 41+9	Oval	sim: 91 %	sim: 5.970	-
Synios P2720 1/2 mm	sim: 41+10	Oval	sim: 91 %	sim: 5.650	-
Oslon Black Flat	sim: 42+12	Oval	sim: 91 %	sim: 5.300	-

Ledil Oy
Salorankatu 10
24240 SALO, Finland

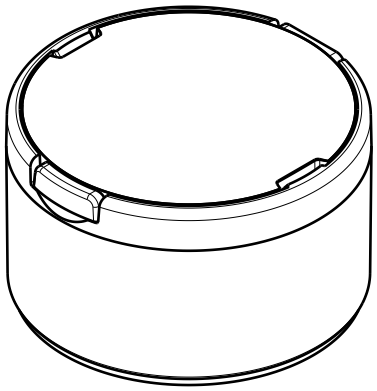
http://www.ledil.com
email: ledil@ledil.com
FAX: +358-2-733 8001


Relative intensity of CA12379_TINA2-O-SFH4715S
100%
75%
50%
25%
0%
60
50
40
30
20
10
0
-10
-20
-30
-40
-50
-60
000-180
090-270

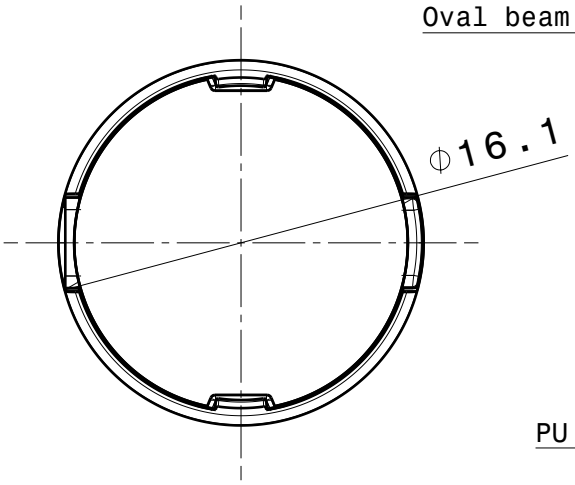

Relative intensity of CA12379_TINA2-O_(SFH4725S)
100%
75%
50%
25%
0%
60
50
40
30
20
10
0
-10
-20
-30
-40
-50
-60
0-180
90-270



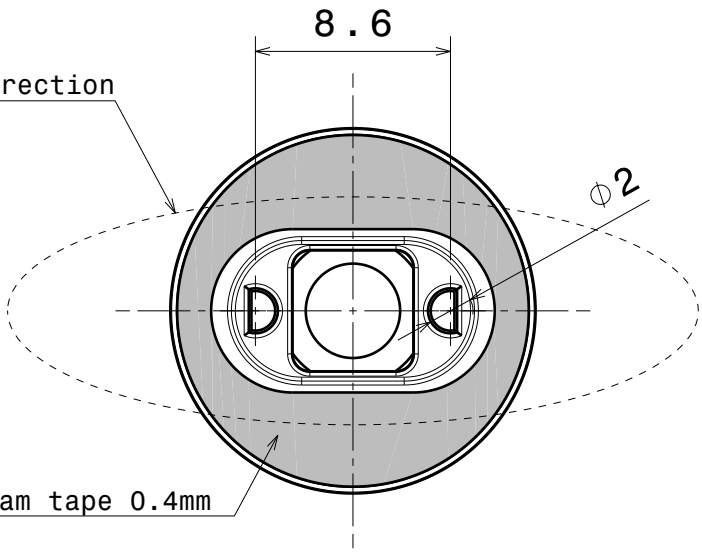
Front view



Isometric view
Scale: 3:1



Top view



Bottom view

INDEX	PART NO	DESCRIPTION	MATERIAL	COLOUR
1	-	TINA2-lens	PMMA	
2	C12373	TINA2-HLD-WHT	PC	white

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:

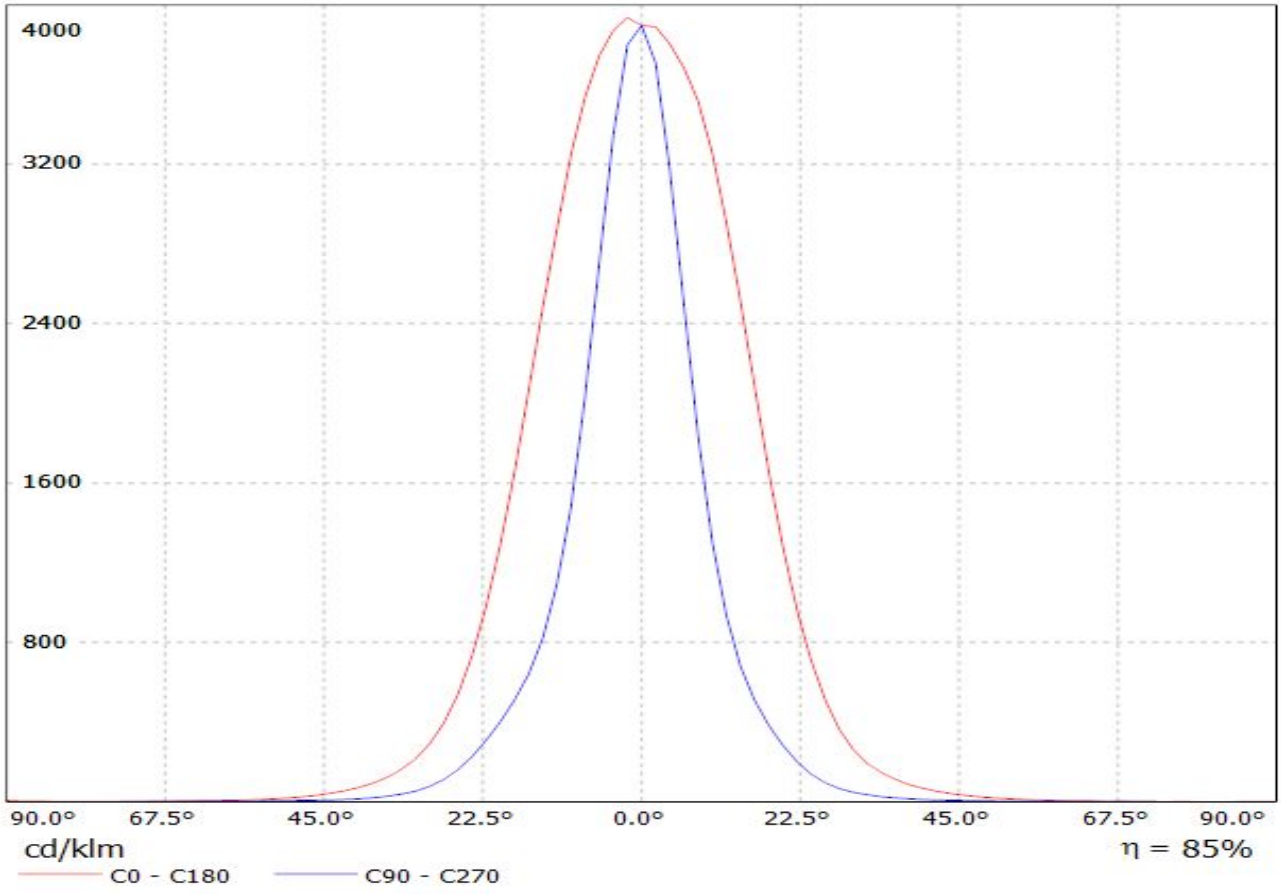
DRAWING TITLE

TINA2 series datasheet

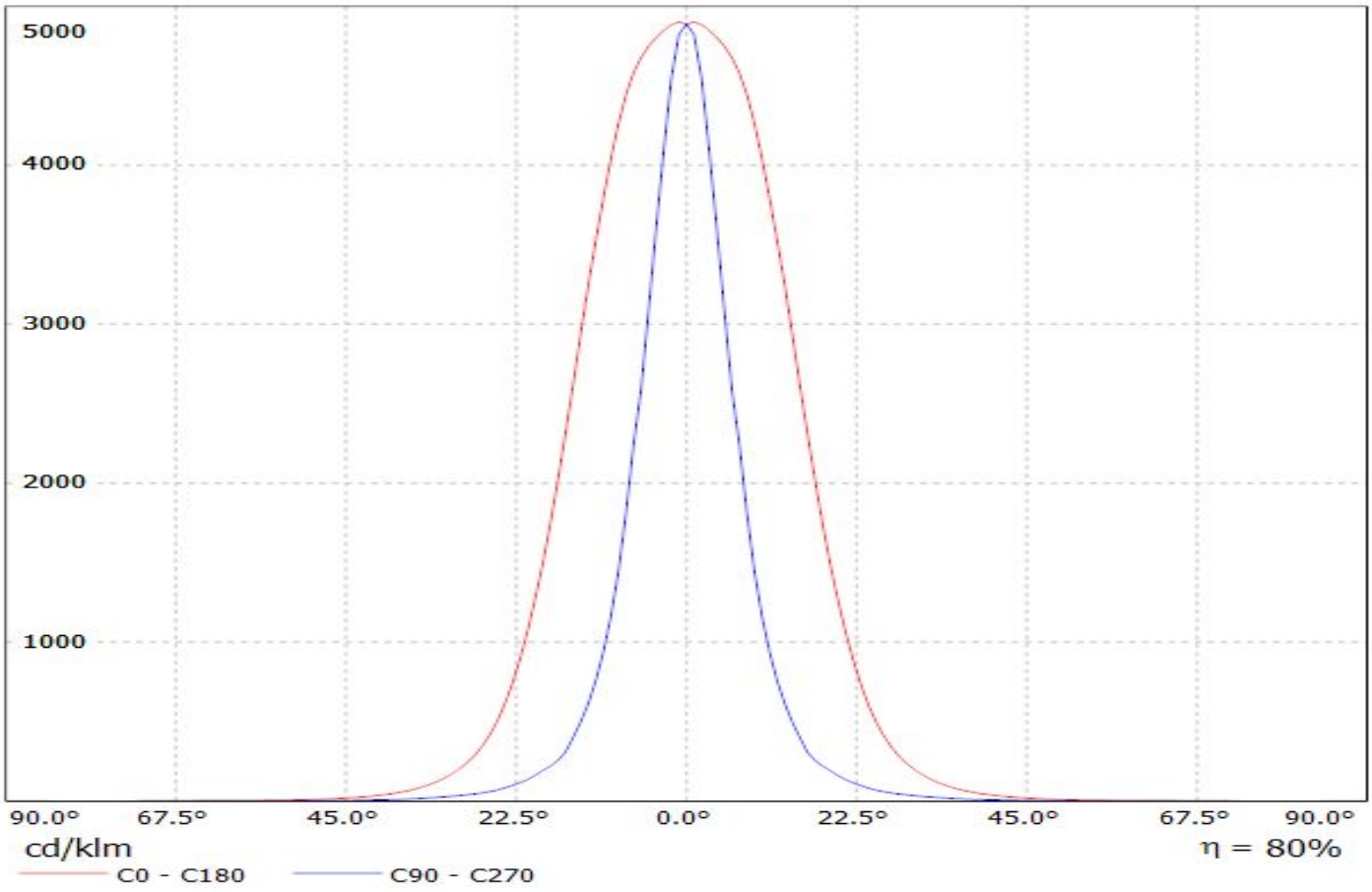
SIZE	PART NUMBER
A4	-

SCALE	WEIGHT		SHEET
3:1	1,3 g		1/1

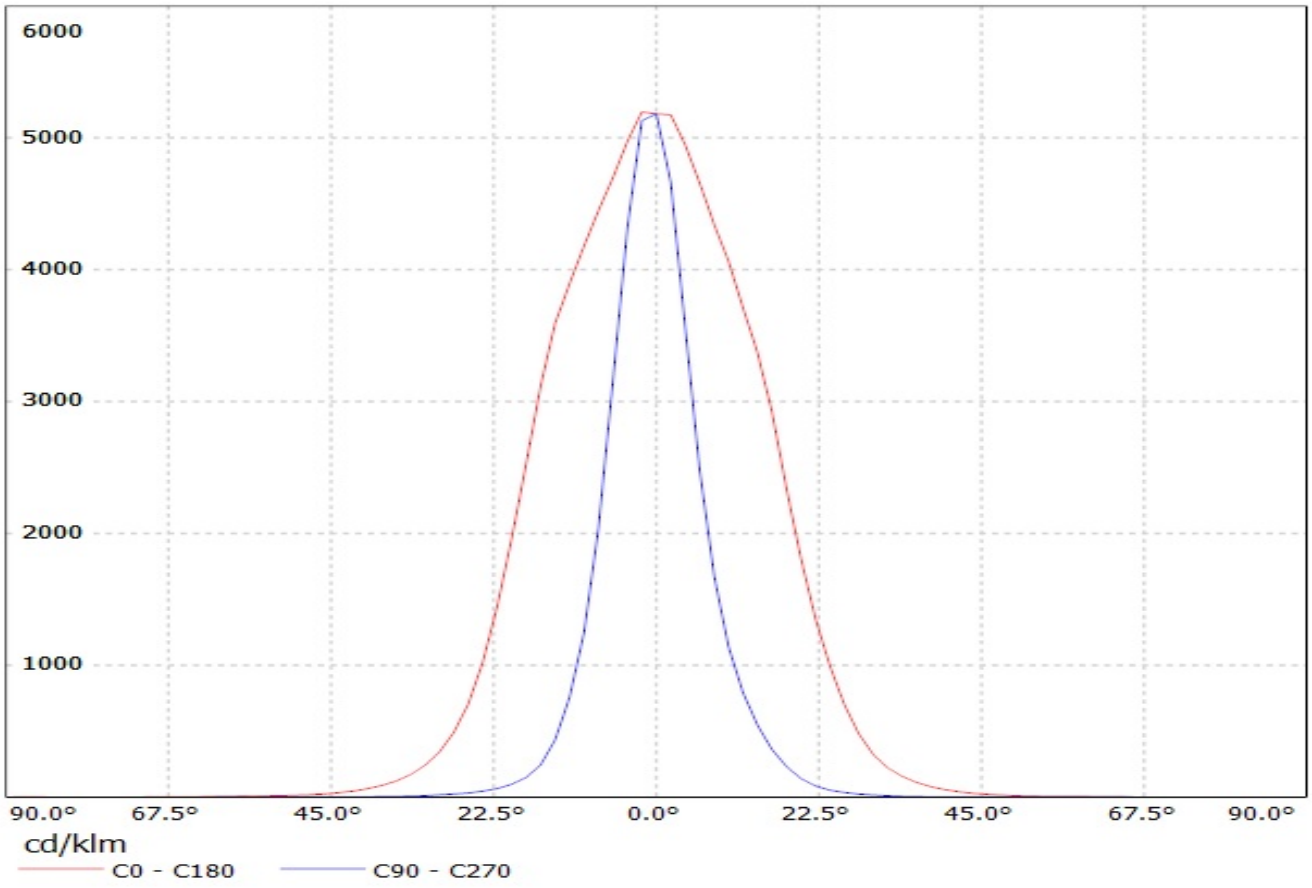
Luminaire: Ledil Oy CA12379_TINA2-O_(XB-H)
Lamps: 1 x Cree XB-H (XBHAWT-0-3C0-T50-0B-0001) 106lm @ 250mA CCT= P=0.73W I=250mA



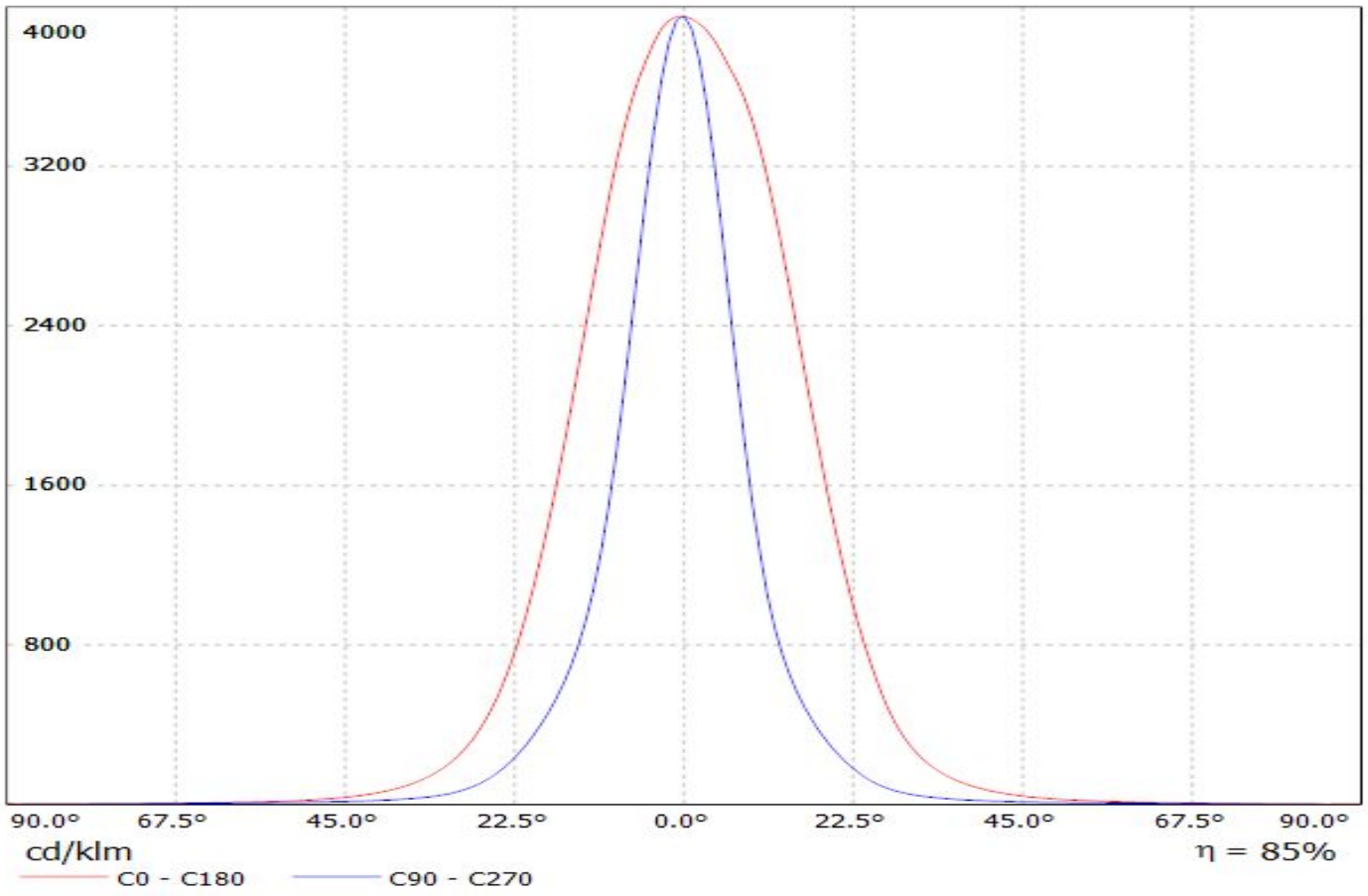
Luminaire: LEDiL Oy
Lamps: 1 x CA12379_TINA2-O-BLK_(XQ-E_HI)



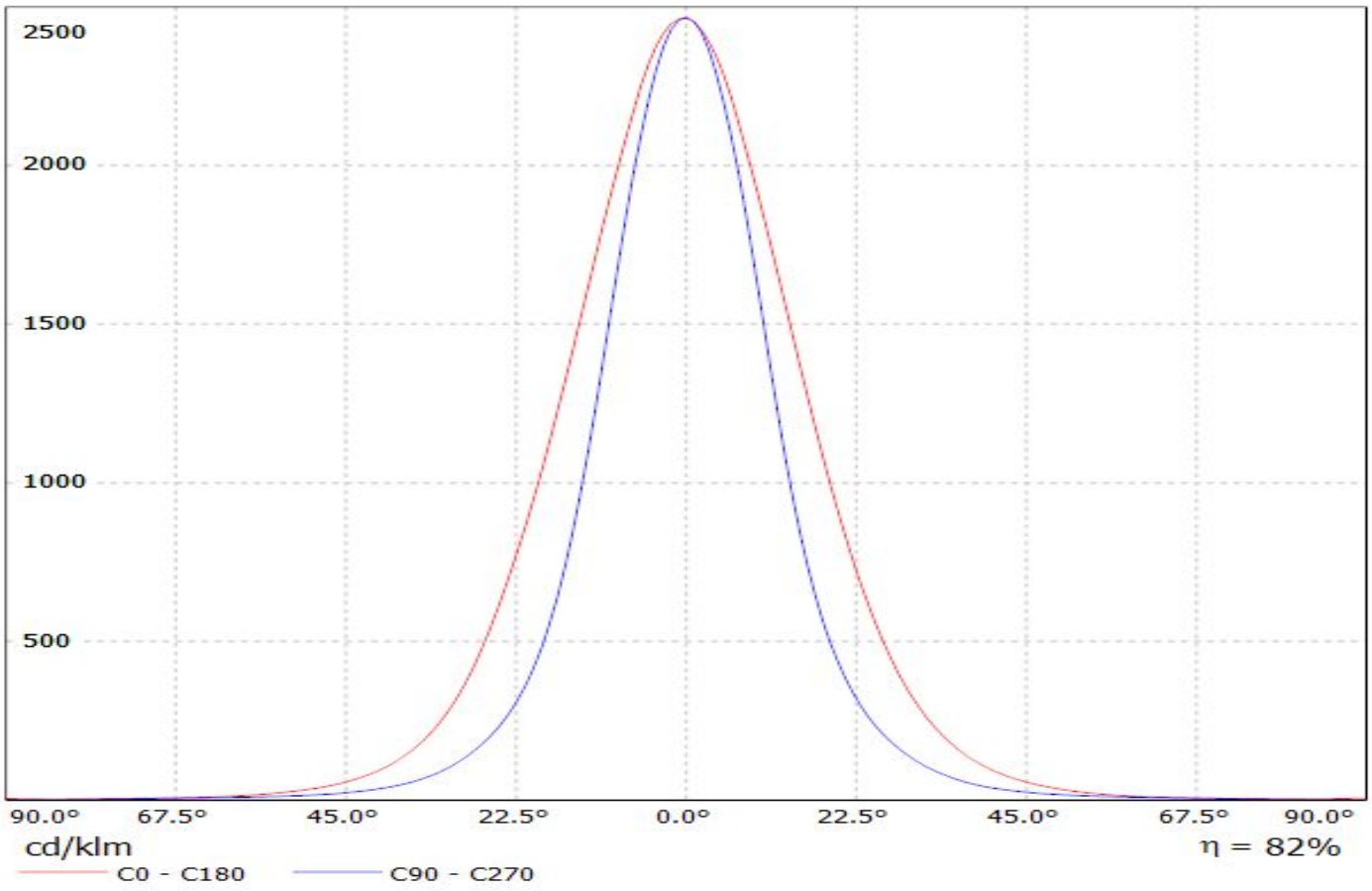
Luminaire: Ledil Oy CA12379_TINA2-O_(Luxeon_Z_ES) Efficiency=85%
Lamps: 1 x Luxeon Z ES (LXZ2-3090) 51 lm @ 250mA CCT=3000K P=0.7W I=250mA



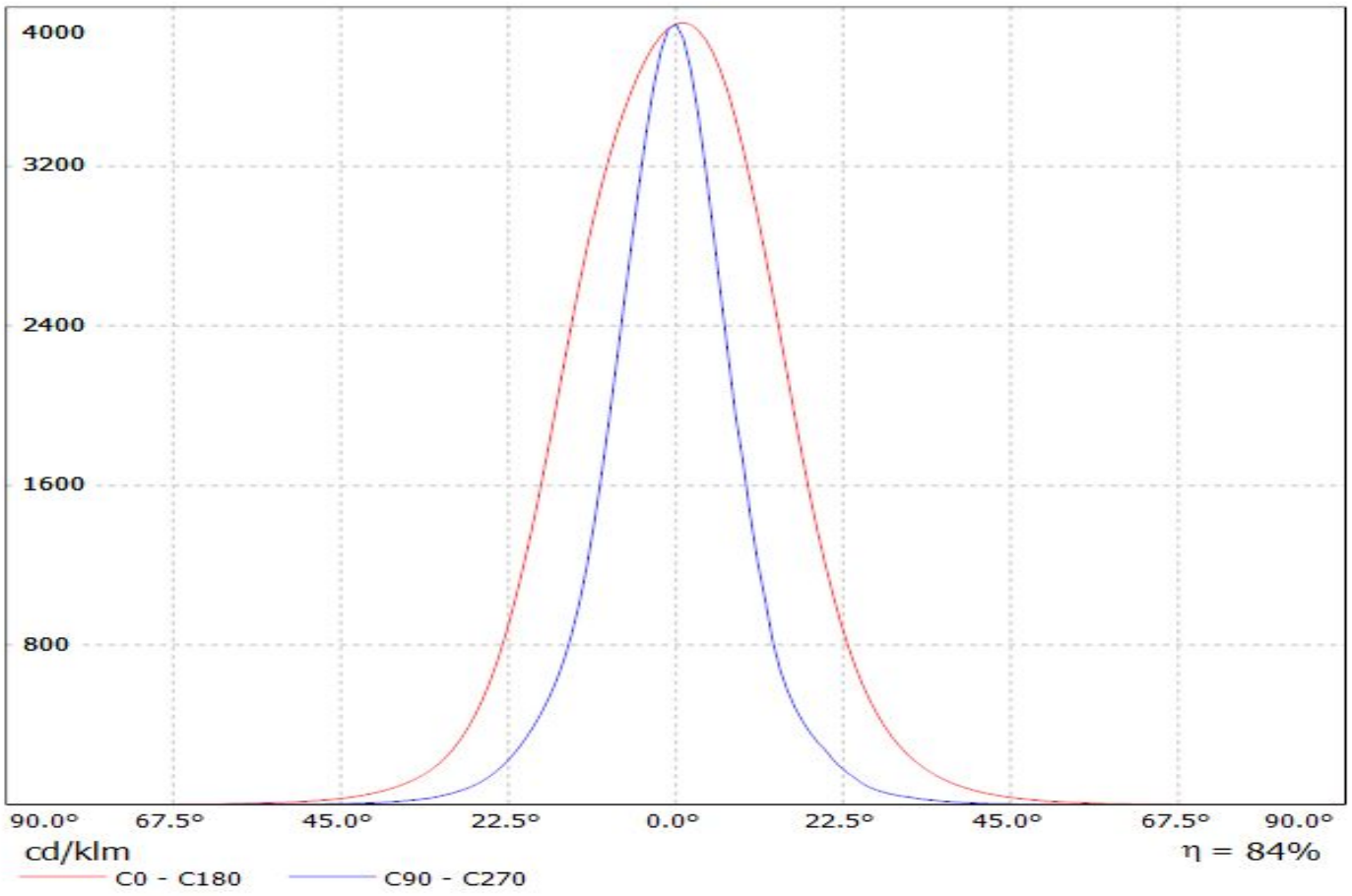
Luminaire: LEDiL Oy CA12379_TINA2-O_(TX)
Lamps: 1 x Luxeon_TX_(L1T2-5770)_109.051lm@250mA_P=0.732157W_I=0.2499A



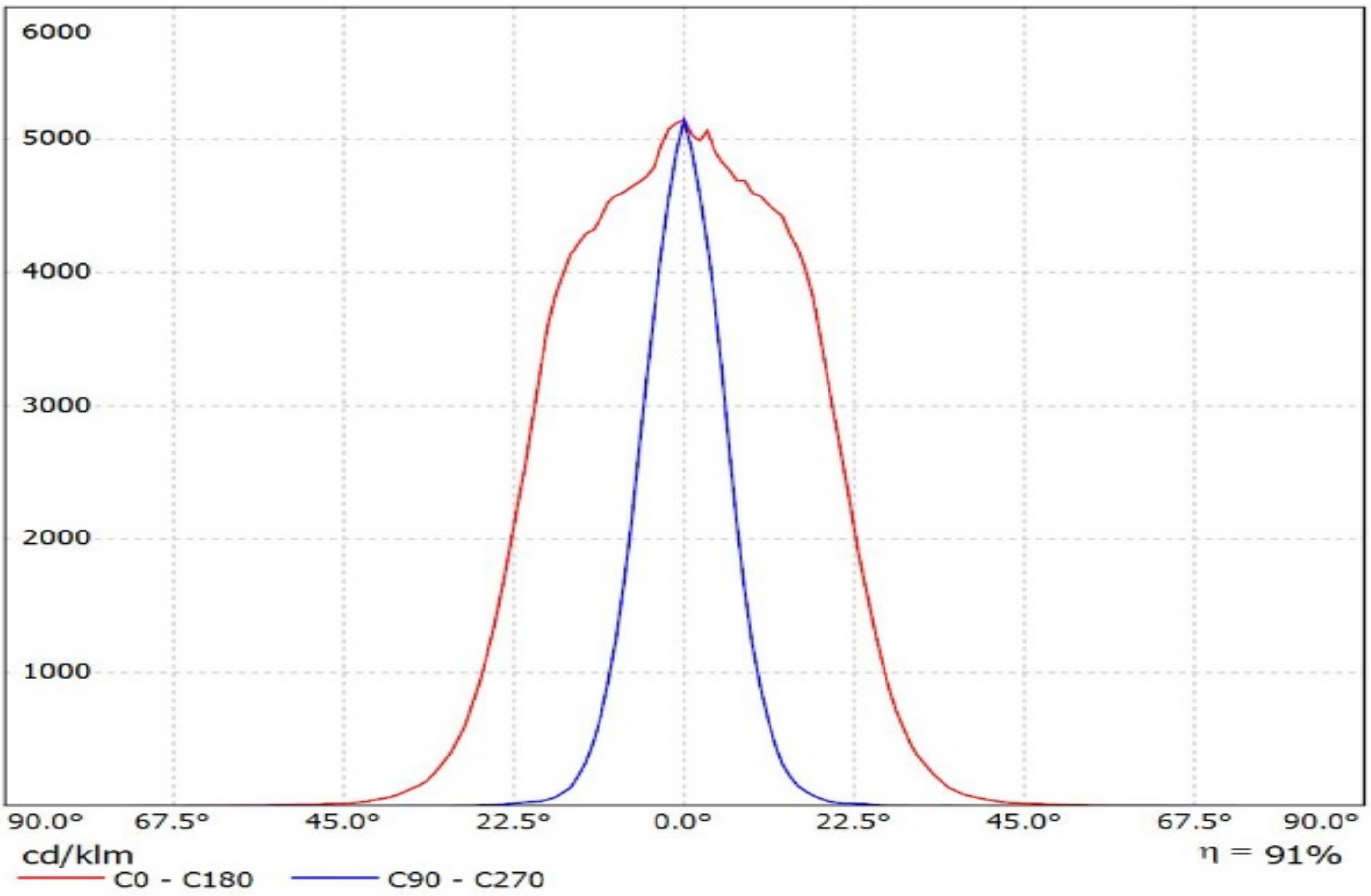
Luminaire: LEDiL Oy CA12379_TINA2-O_(NWSL229AE)
Lamps: 1 x Nichia_NWSL229AE_120.54lm@250mA_P=0.7128W_I=0.250A



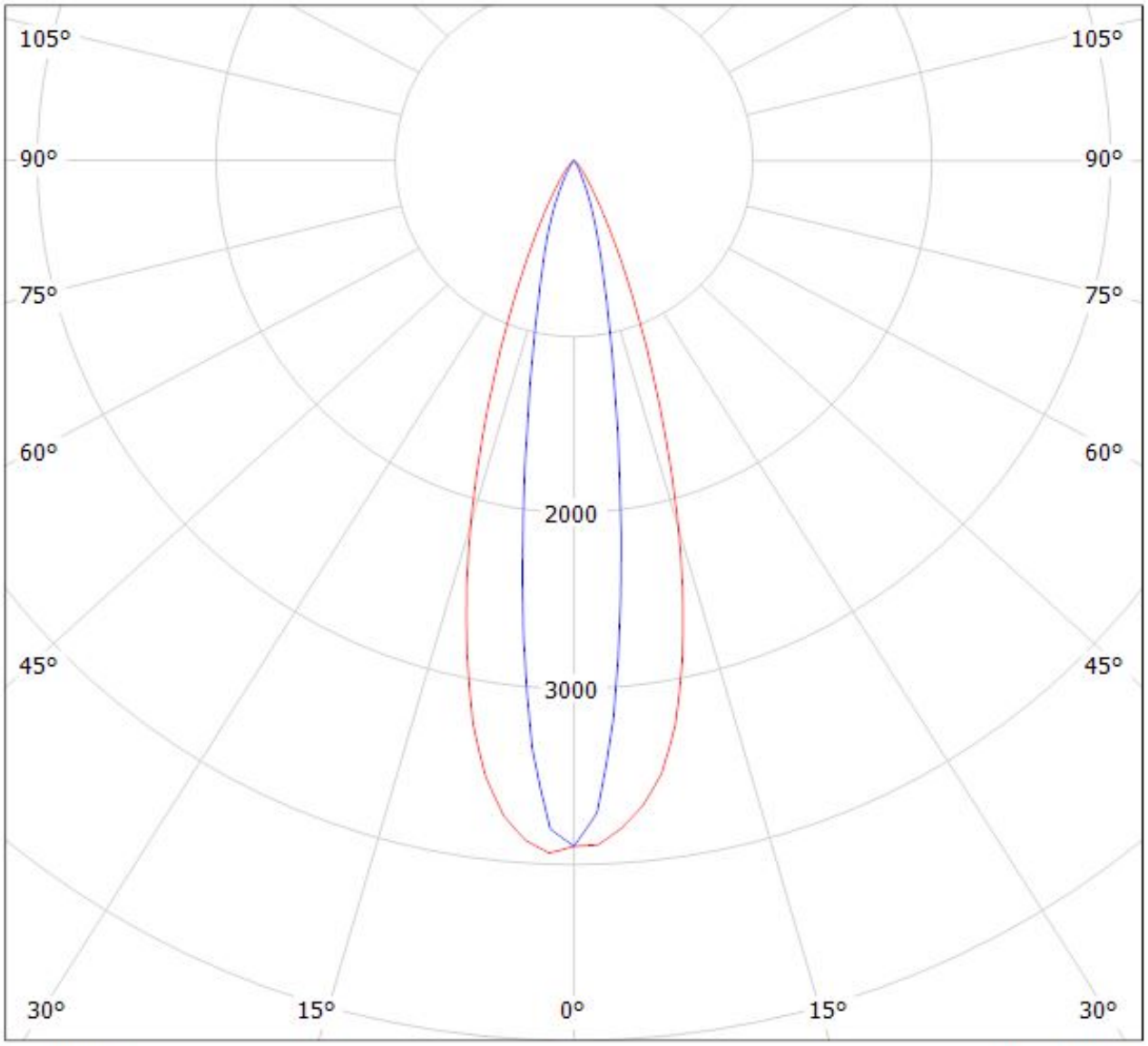
Luminaire: Ledil Oy
Lamps: 1 x CA12379_TINA2-O_(Square_EC)



Luminaire: Ledil Oy CA12379_TINA2-O_(Oslon_Black_Flat)_SIMULATED
Lamps: 1 x Osram Oslon Black Flat (LUW HWQP)



Luminaire: Ledil Oy CA12379_TINA2-O_(XB-H)
Lamps: 1 x Cree XB-H (XBHAWT-0-3C0-T50-0B-0001) 106lm @ 250mA CCT= P=0.73W I=250mA

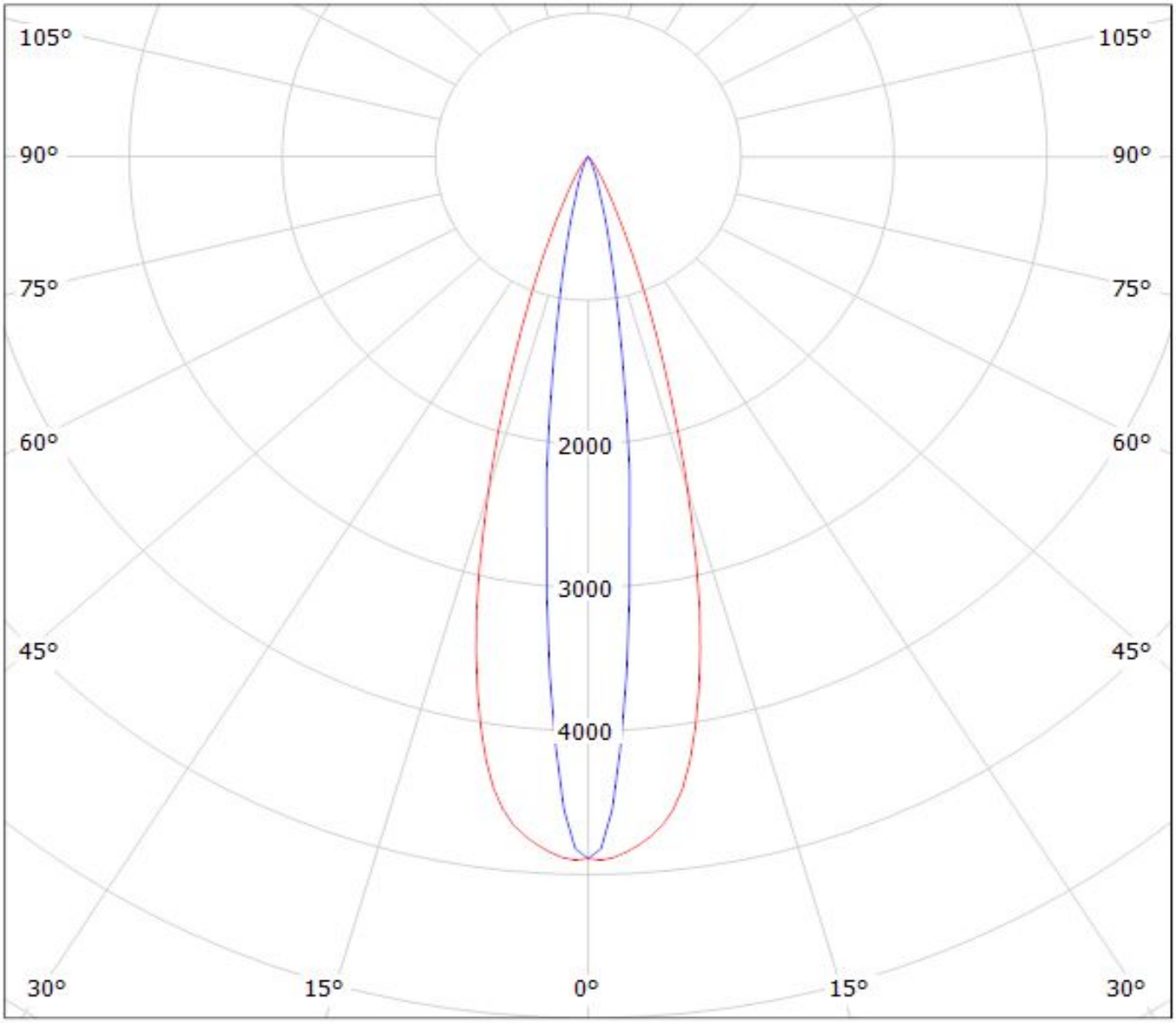


cd/klm

η = 85%

C0 - C180 C90 - C270

Luminaire: LEDiL Oy
Lamps: 1 x CA12379_TINA2-O-BLK_(XQ-E_HI)

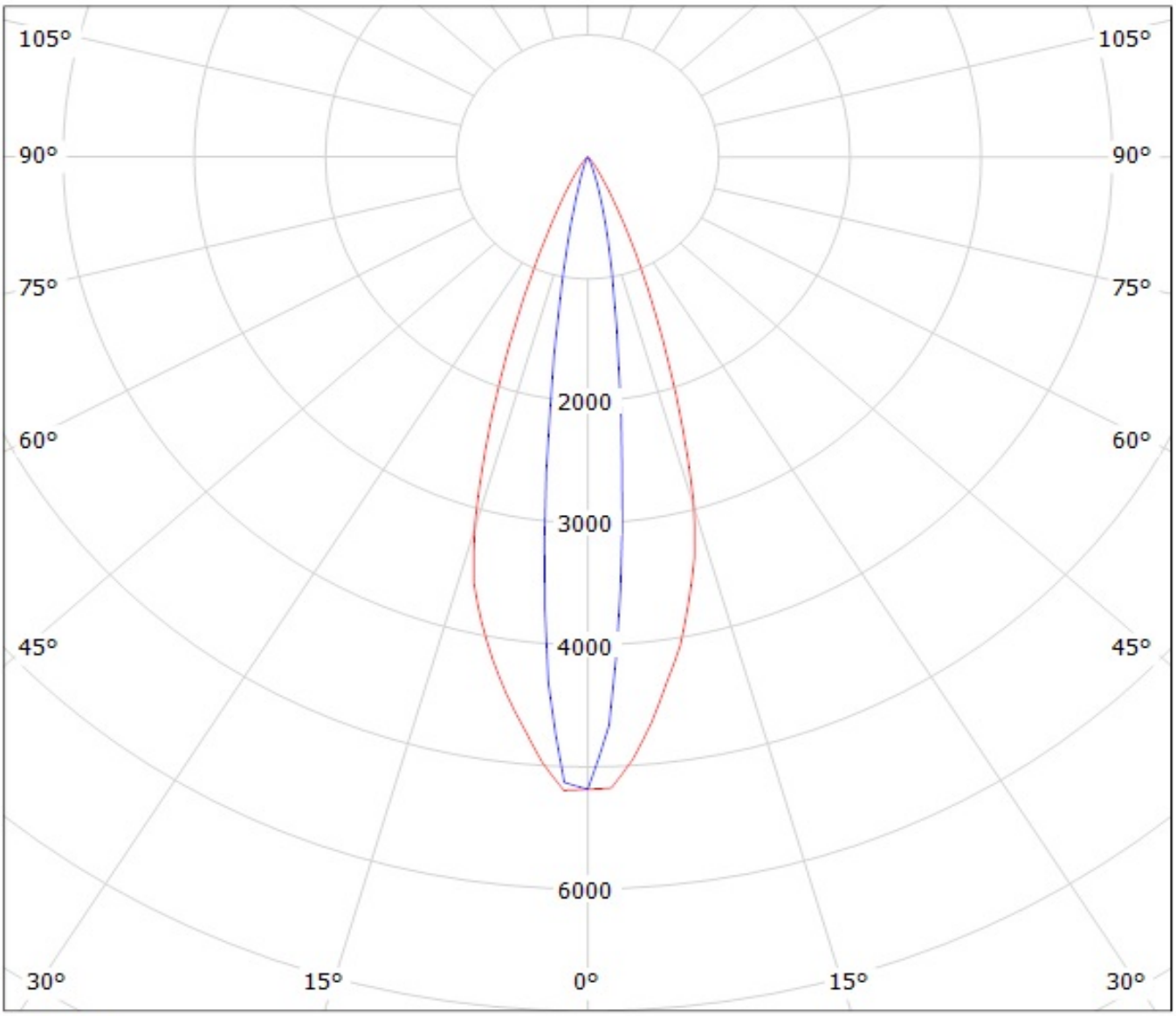


cd/klm

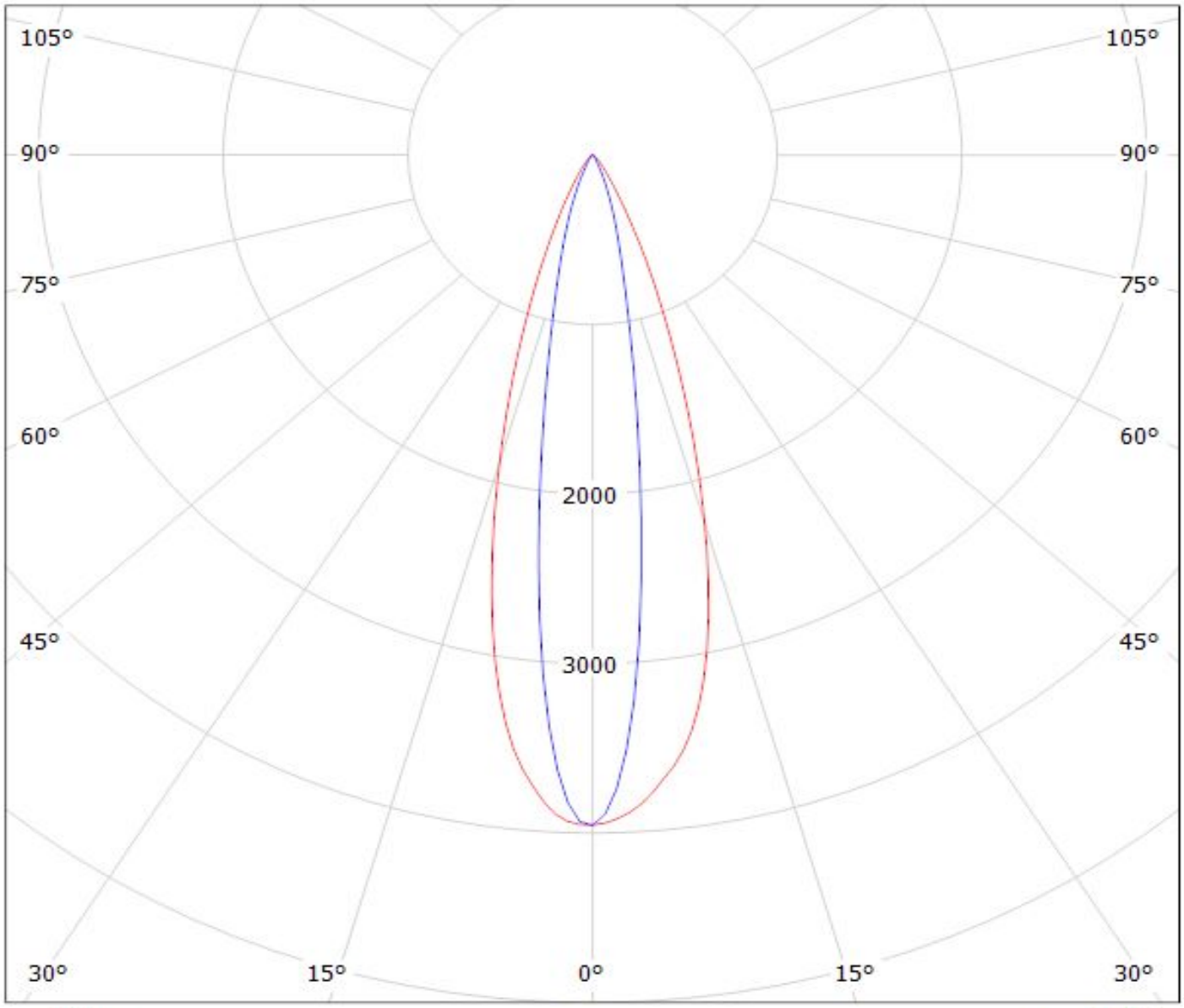
η = 80%

C0 - C180 C90 - C270

Luminaire: Ledil Oy CA12379_TINA2-O_(Luxeon_Z_ES) Efficiency=85%
Lamps: 1 x Luxeon Z ES (LXZ2-3090) 51 lm @ 250mA CCT=3000K P=0.7W I=250mA



Luminaire: LEDiL Oy CA12379_TINA2-O_(TX)
Lamps: 1 x Luxeon_TX_(L1T2-5770)_109.051lm@250mA_P=0.732157W_I=0.2499A

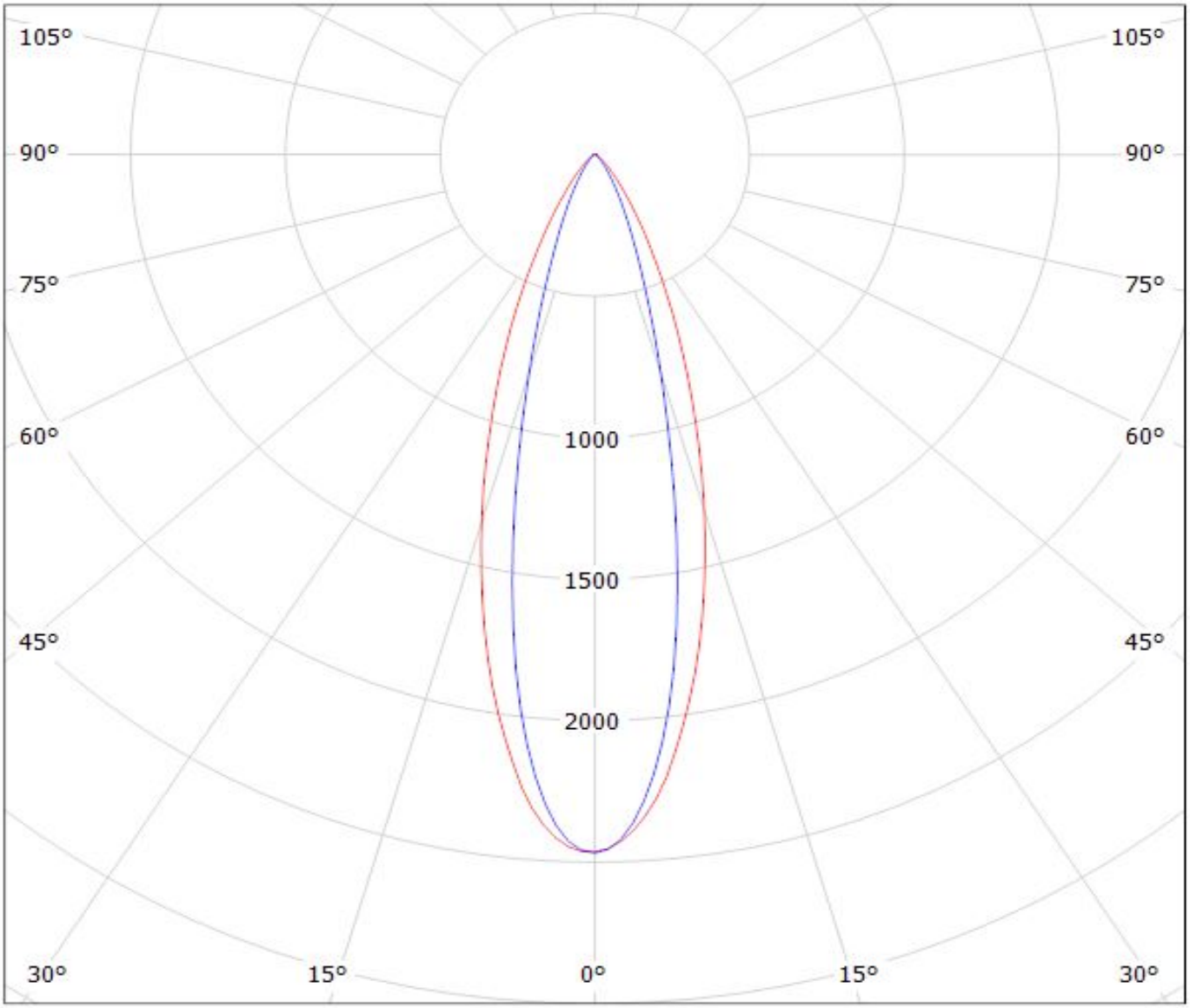


cd/klm

η = 85%

C0 - C180 C90 - C270

Luminaire: LEDiL Oy CA12379_TINA2-O_(NWSL229AE)
Lamps: 1 x Nichia_NWSL229AE_120.54lm@250mA_P=0.7128W_I=0.250A

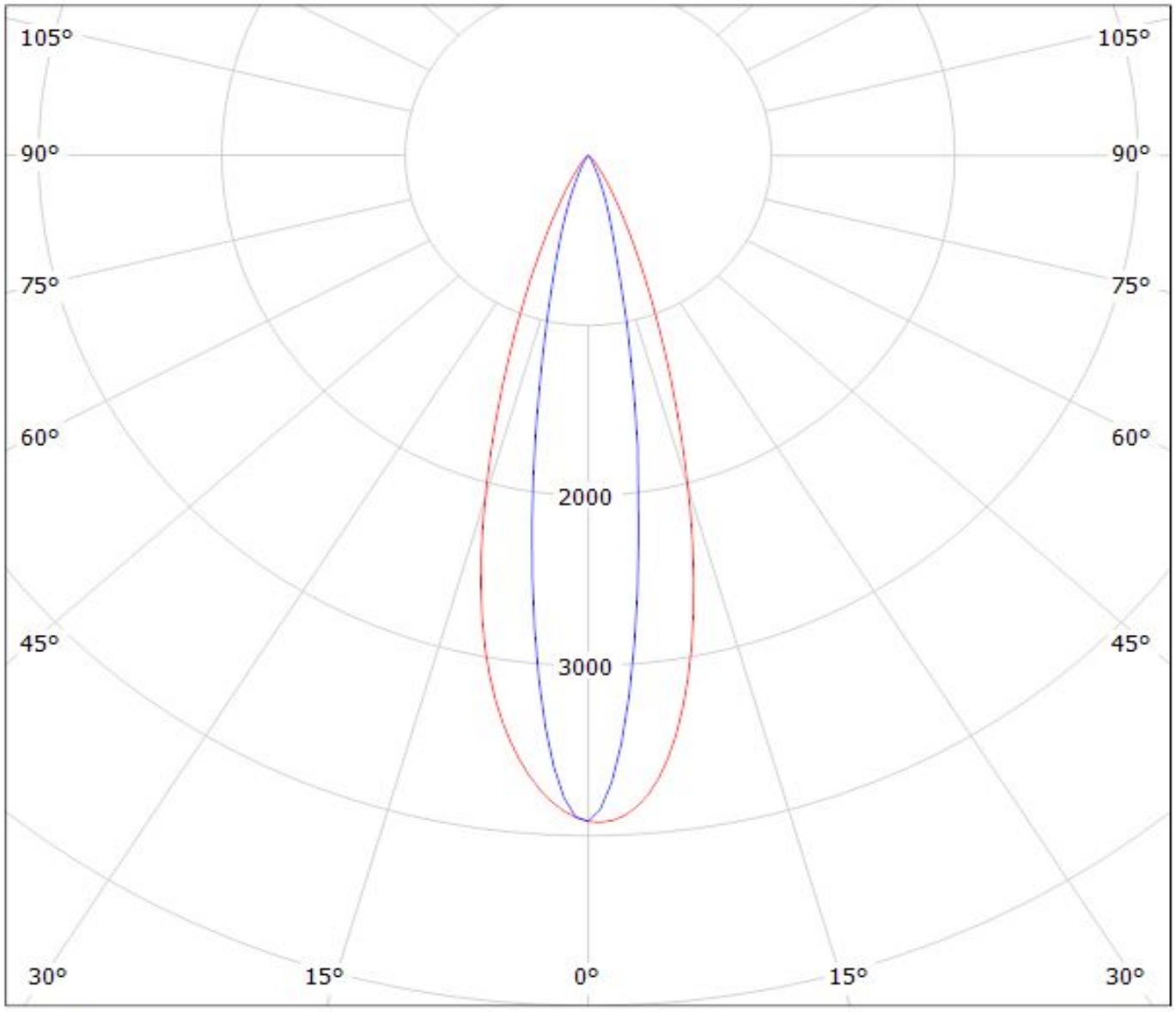


cd/klm

η = 82%

C0 - C180 C90 - C270

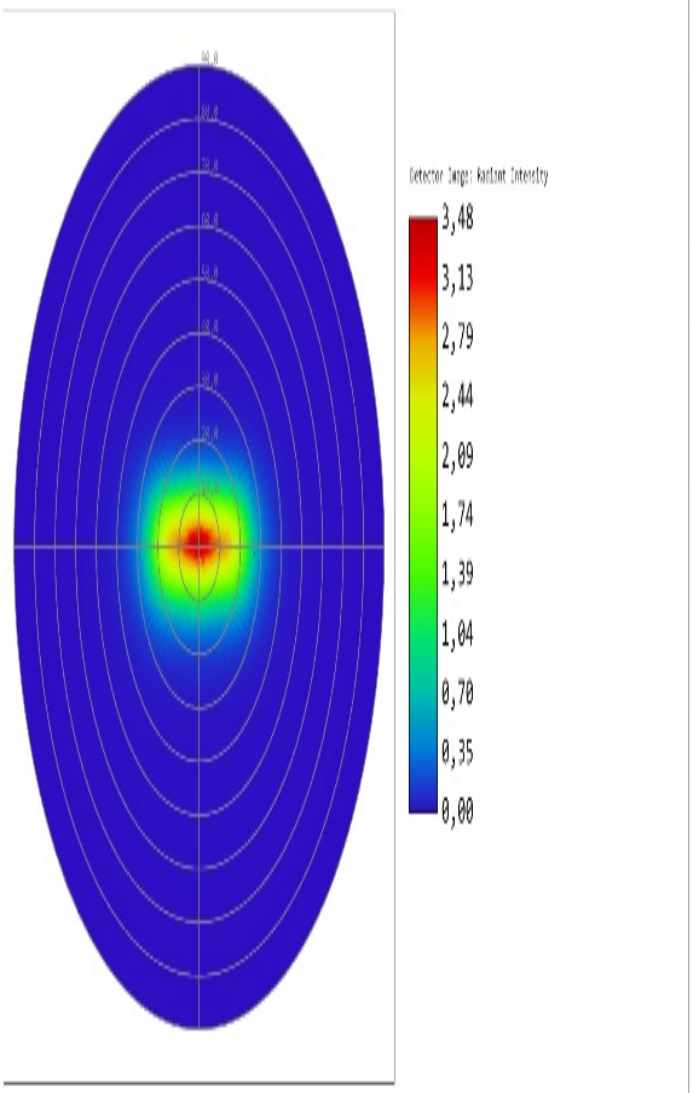
Luminaire: Ledil Oy
Lamps: 1 x CA12379_TINA2-O_(Square_EC)



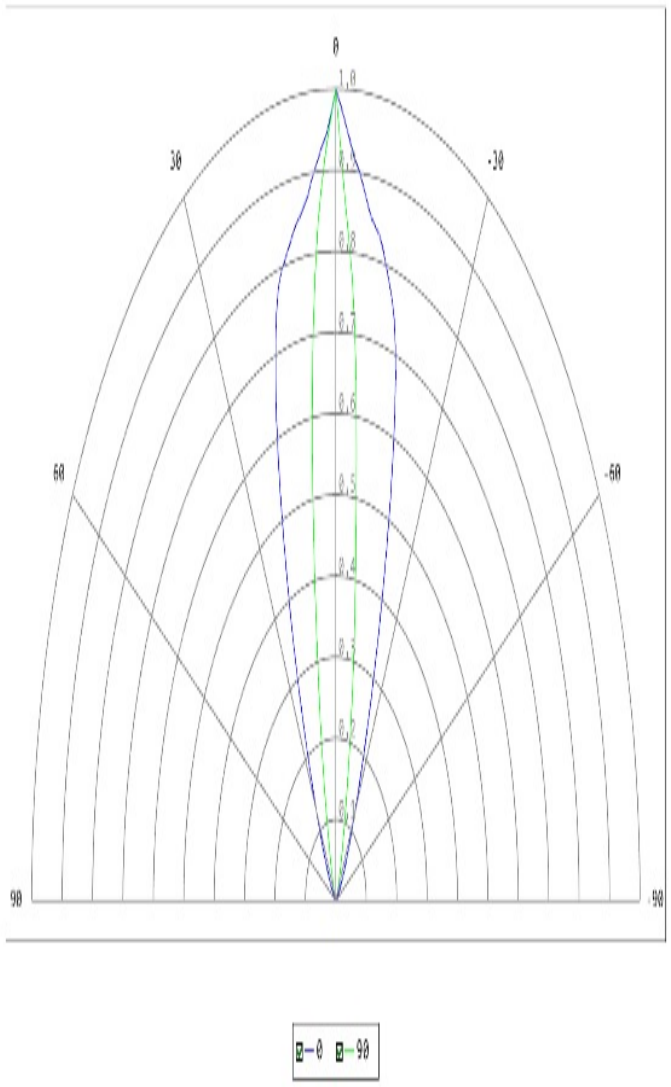
cd/klm

η = 84%

C0 - C180 C90 - C270

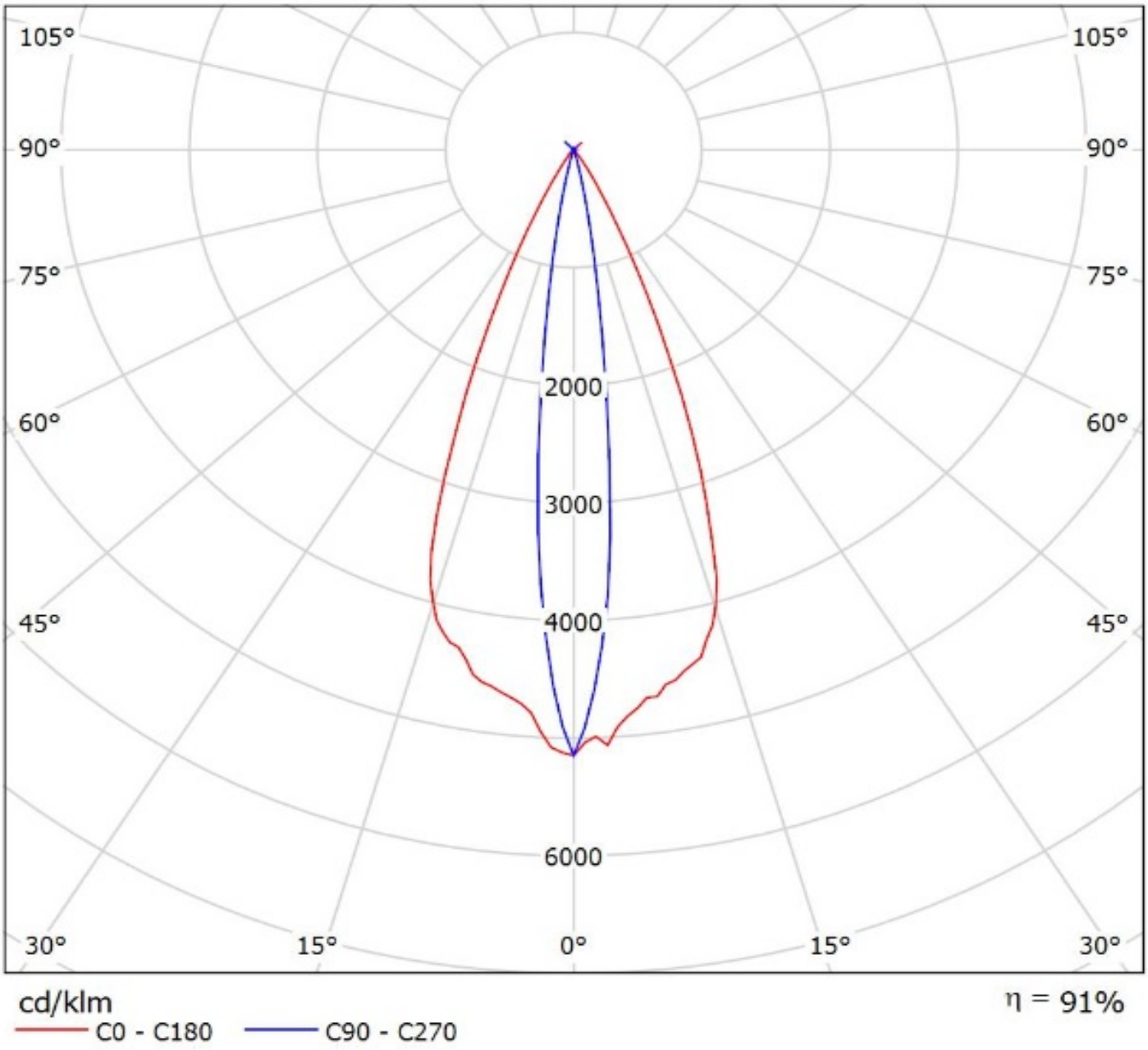


Detector Image: Radiant Intensity	
14.4.2016 Detector 5, NSCG Surface 1: Max polar angle: 90,00 deg, Total Hits = 848609 Peak Intensity : 3,481E+000 Watts/Steradian Total Power : 8,486E-001 Watts	Zemax Zemax OpticStudio 15.5 SP2 CA12379_TIIA2-0_(SFH_47705)_SIMULATED.zmx Configuration 1 of 1



Detector Image: Radiant Intensity	
14.4.2016 Detector 5, NSCG Surface 1: Scan Angles: 0, 90 Peak Intensity : 3,481E+000 Watts/Steradian	Zemax Zemax OpticStudio 15.5 SP2 CA12379_TIIA2-0_(SFH_47705)_SIMULATED.zmx Configuration 1 of 1

Luminaire: Ledil Oy CA12379_TINA2-O_(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.