PRODUCT DATASHEET
Crystal series
last update 23/1/2018

DETAILS

Product Number	FCN13552_CRYSTAL-RS
Family	Crystal
Type	Pack
Color	white
Diameter	49,7 mm
Height	28,7 mm
Style	round
Optic Material	PMMA
Holder Material	
Fastening	pin, screw
Status	production ready
ROHS Compliant	Yes
Date Updated	23/01/2018

OPTICAL PROPERTIES

LED	Viewing Angle	Light Beam	Effi-ciency	cd/lm	Connector
XP-G	4,9 deg	Real spot	89 %	68.290	-
XP-L	7 deg	Real spot	88 %	34.700	-
XHP35 HI	5,7 deg	Real spot	89 %	48.300	-
XQ-E HI	2,9 deg	Real spot	88 %	110.500	-
XP-L HI	sim: 5,6	Real spot	sim: 94 %	sim: 70.220	-
LUXEON A	5,1 deg	Real spot	89 %	58.900	-
LUXEON Z ES	3 deg	Real spot	93 %	103.780	-
NVSxx19B/NVSxx19C	5,3 deg	Real spot	89 %	42.500	-
NWSx229A	8 deg	Real spot	92 %	27.900	-
NV4x144A	12 deg	Real spot	92 %	14.200	-
NVSW3x9A	6 deg	Real spot	89 %	36.500	-
LH351Z	4,4 deg	Real spot	90 %	77.000	-
LH351B	5,3 deg	Real spot	90 %	57.030	-

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24240 SALO, Finland

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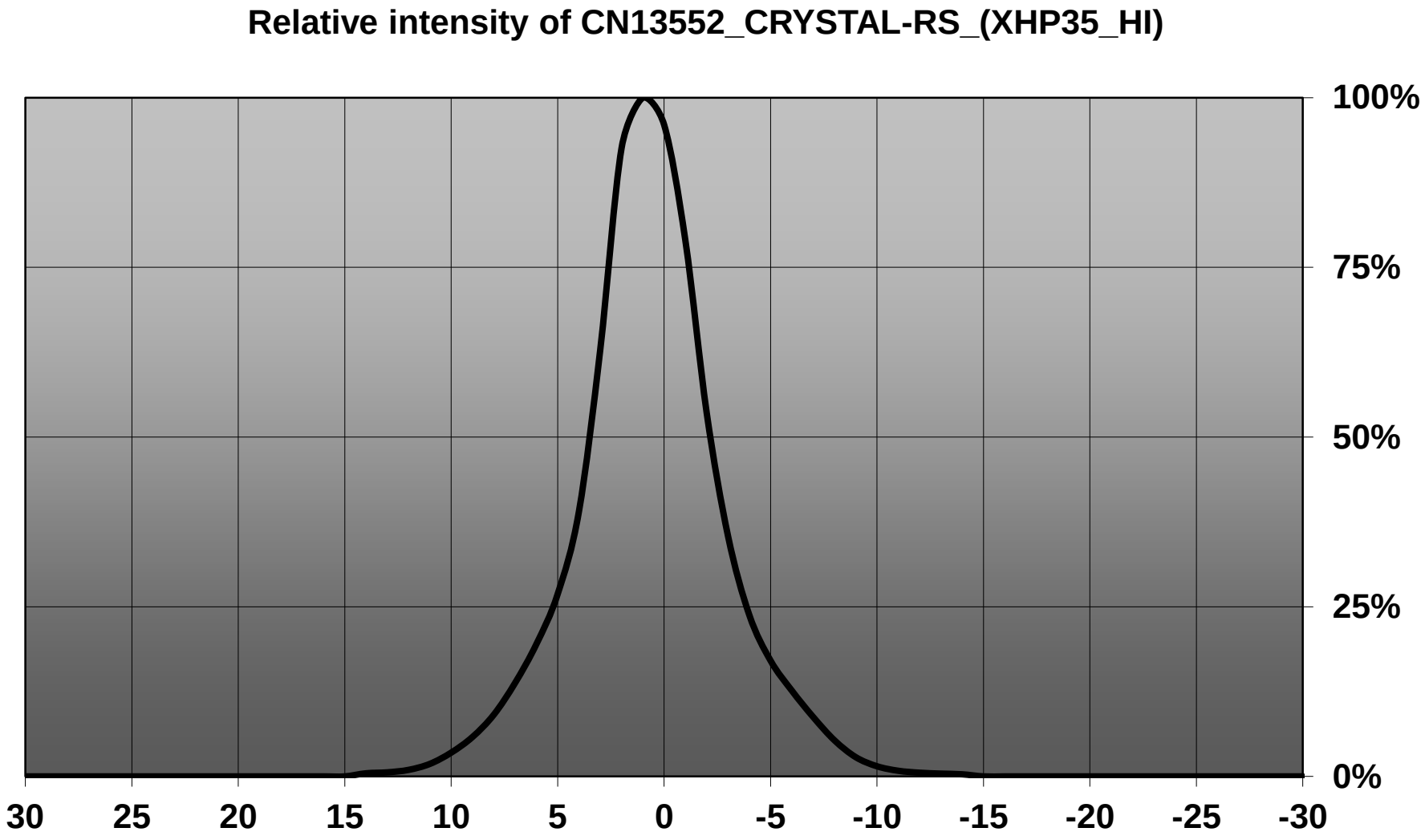
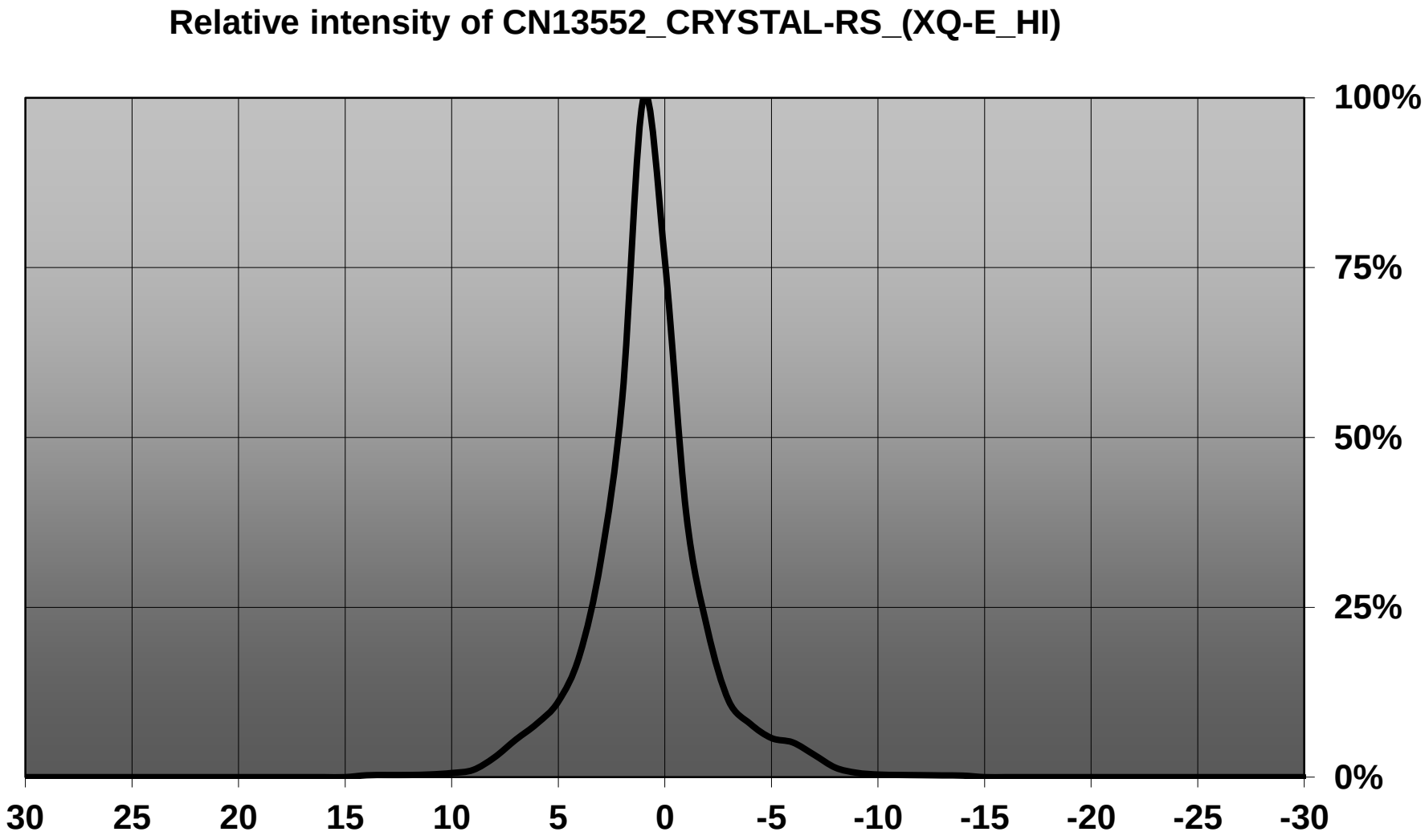
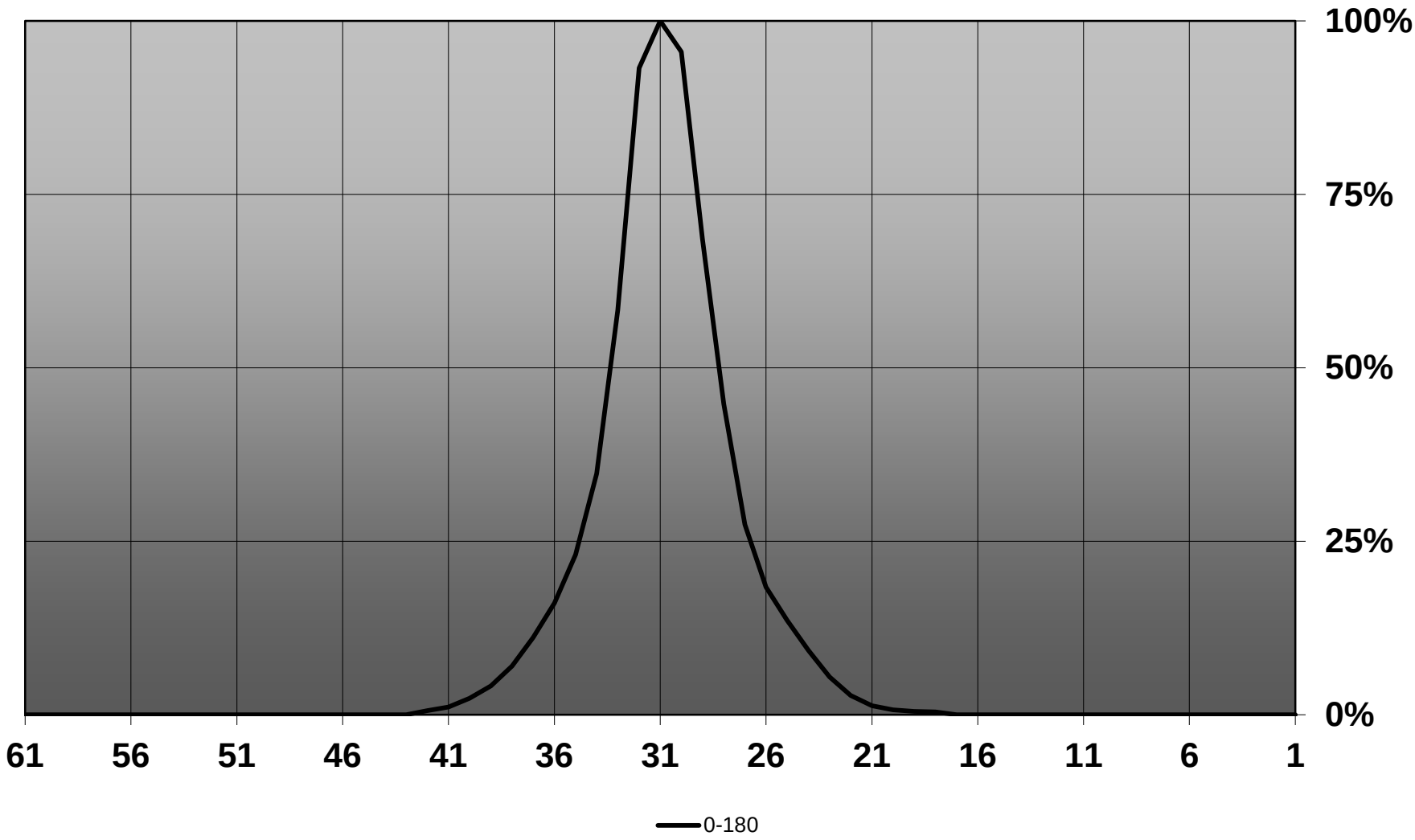
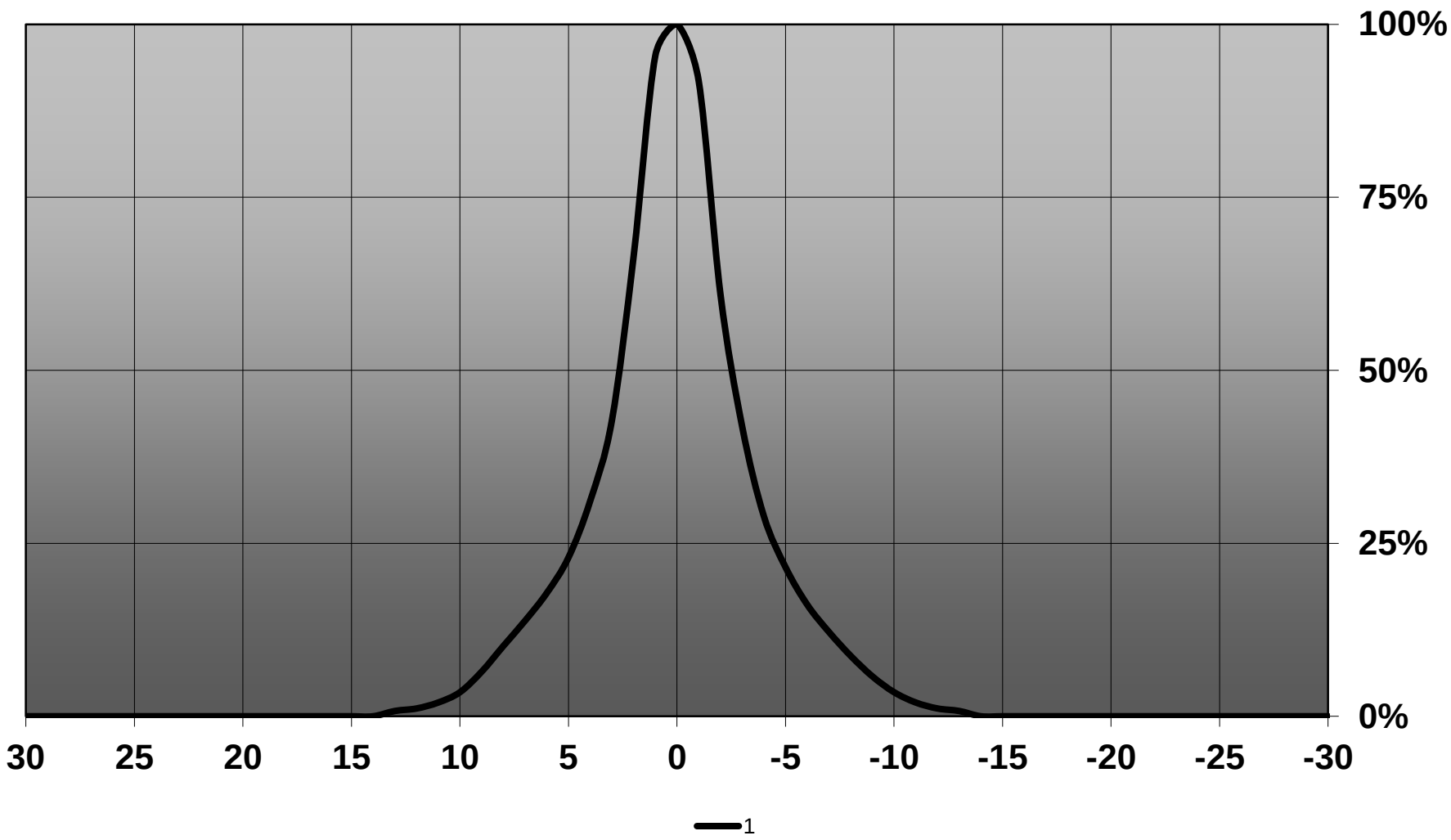
FAX: +358-2-733 8001

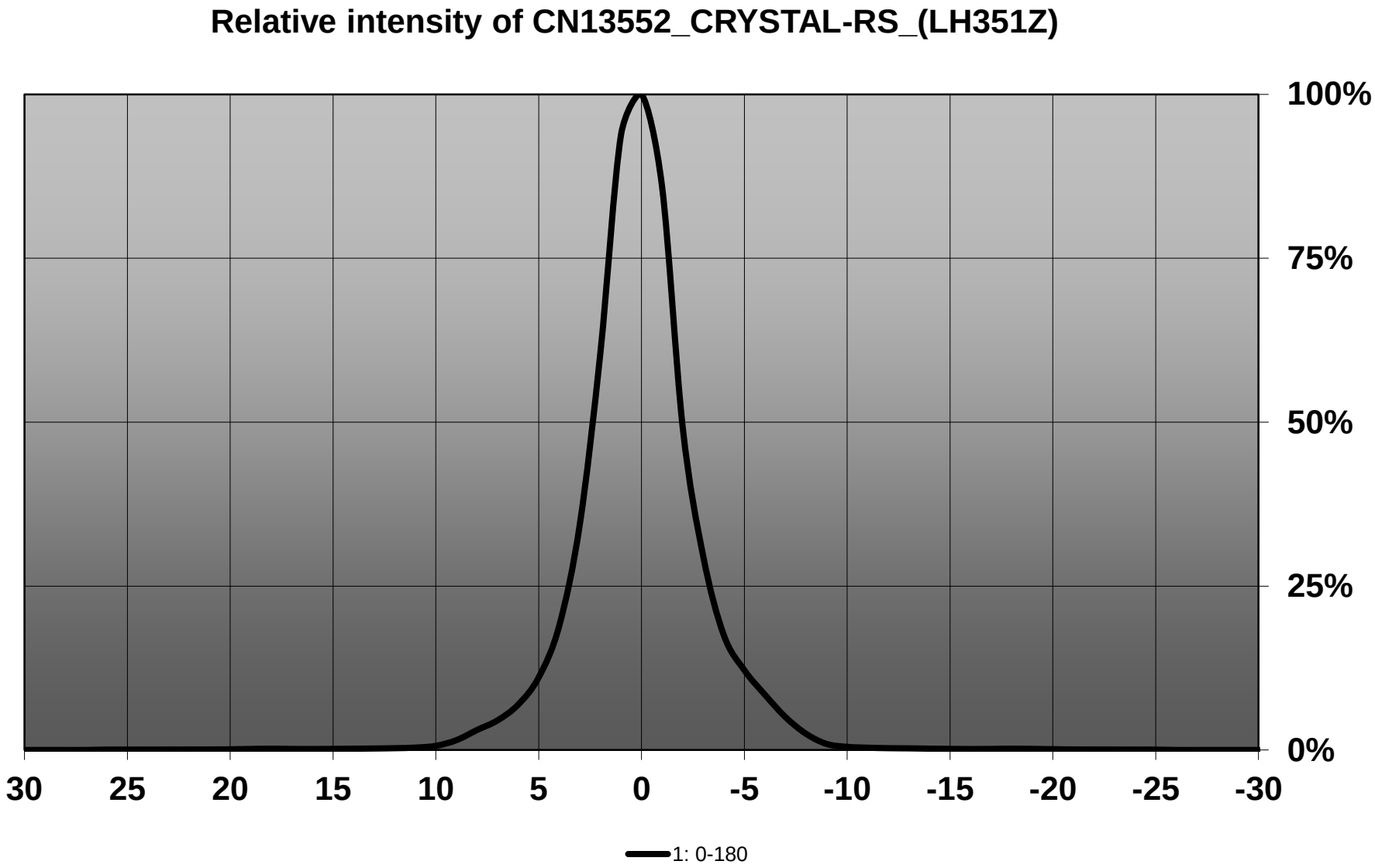

Relative intensity of CN13552_CRYSTAL-RS_(XHP35_HI)
100%
75%
50%
25%
0%
30
25
20
15
10
5
0
-5
-10
-15
-20
-25
-30

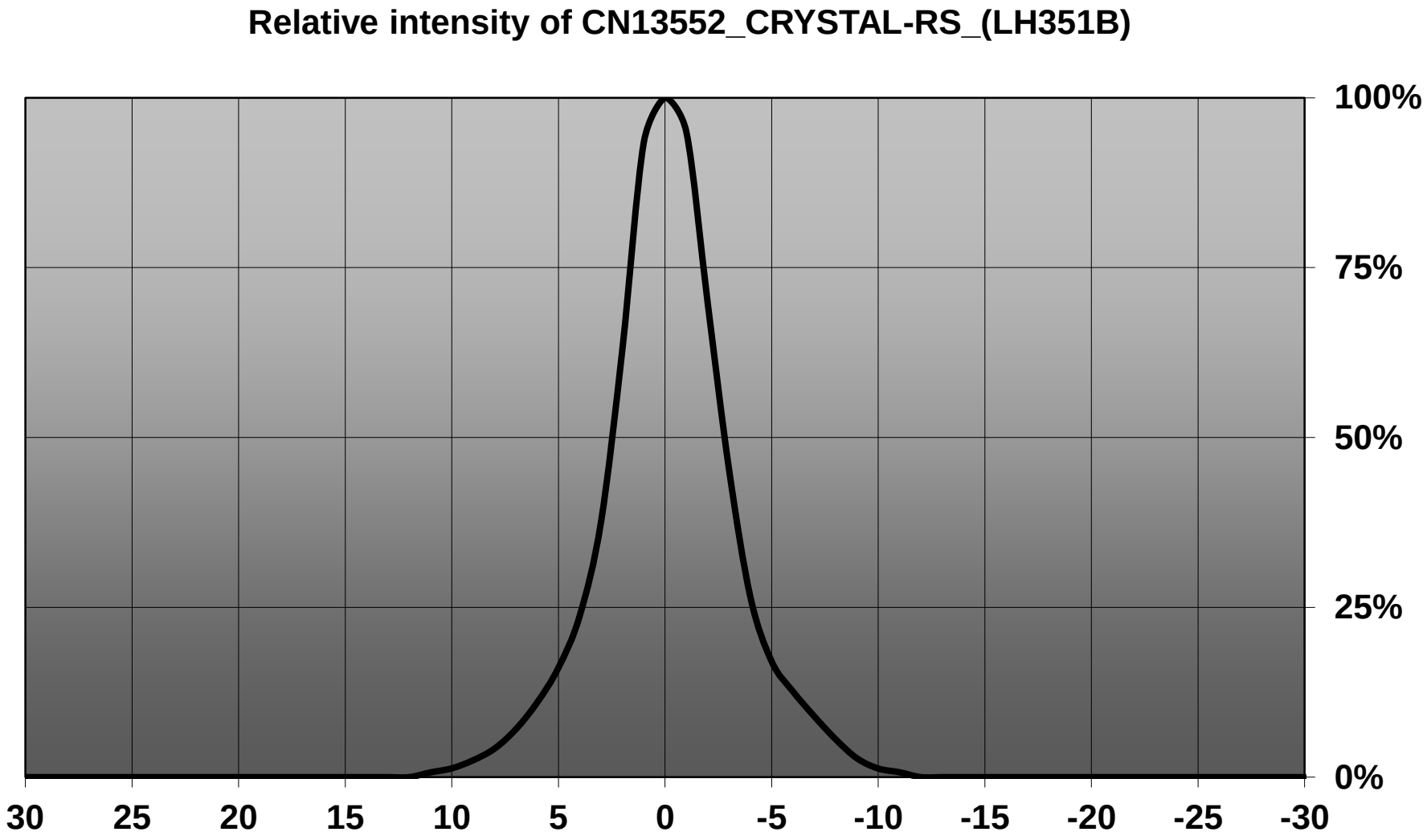

Relative intensity of CN13552_CRYSTAL-RS_(XQ-E_HI)
100%
75%
50%
25%
0%
30
25
20
15
10
5
0
-5
-10
-15
-20
-25
-30

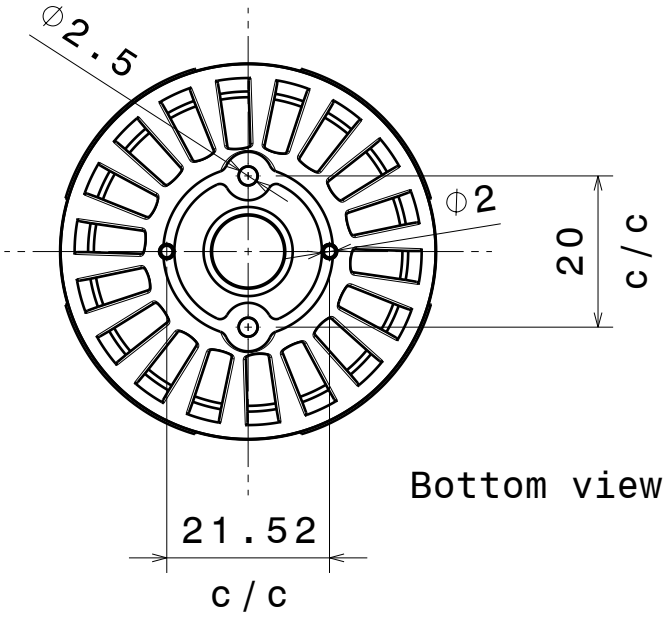
Relative intensity of CN13552_CRYSTAL-RS_(Luxeon_A)



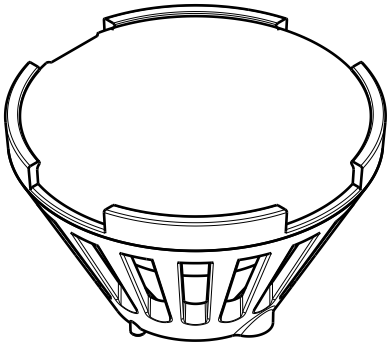

Relative intensity of CN13552_CRYSTAL-RS_(NVSxx19B)
100%
75%
50%
25%
0%
30
25
20
15
10
5
0
-5
-10
-15
-20
-25
-30
1

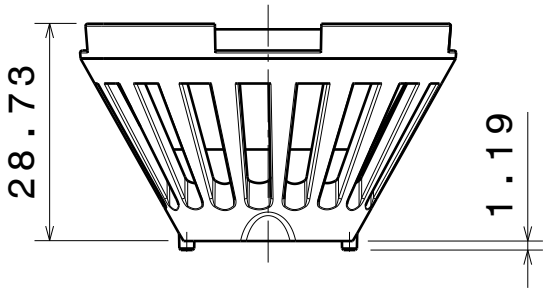

Relative intensity of CN13552_CRYSTAL-RS_(LH351Z)
100%
75%
50%
25%
0%
30
25
20
15
10
5
0
-5
-10
-15
-20
-25
-30
1: 0-180


Relative intensity of CN13552_CRYSTAL-RS_(LH351B)
100%
75%
50%
25%
0%
30
25
20
15
10
5
0
-5
-10
-15
-20
-25
-30

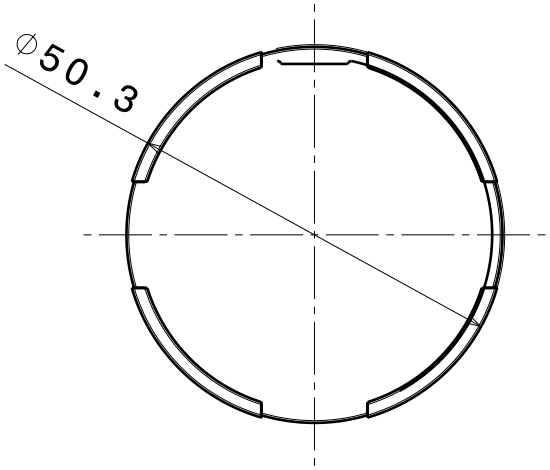


Bottom view





Front view



Top view

Tolerances if not otherwise shown
According to DIN ISO 2768-1
Linear measures: class C
According to DIN ISO 2768-2
Form and position: class L

Ledil Oy
Salorankatu 10
FIN 24240 SALO
Finland

THIRD ANGLE PROJECTION:

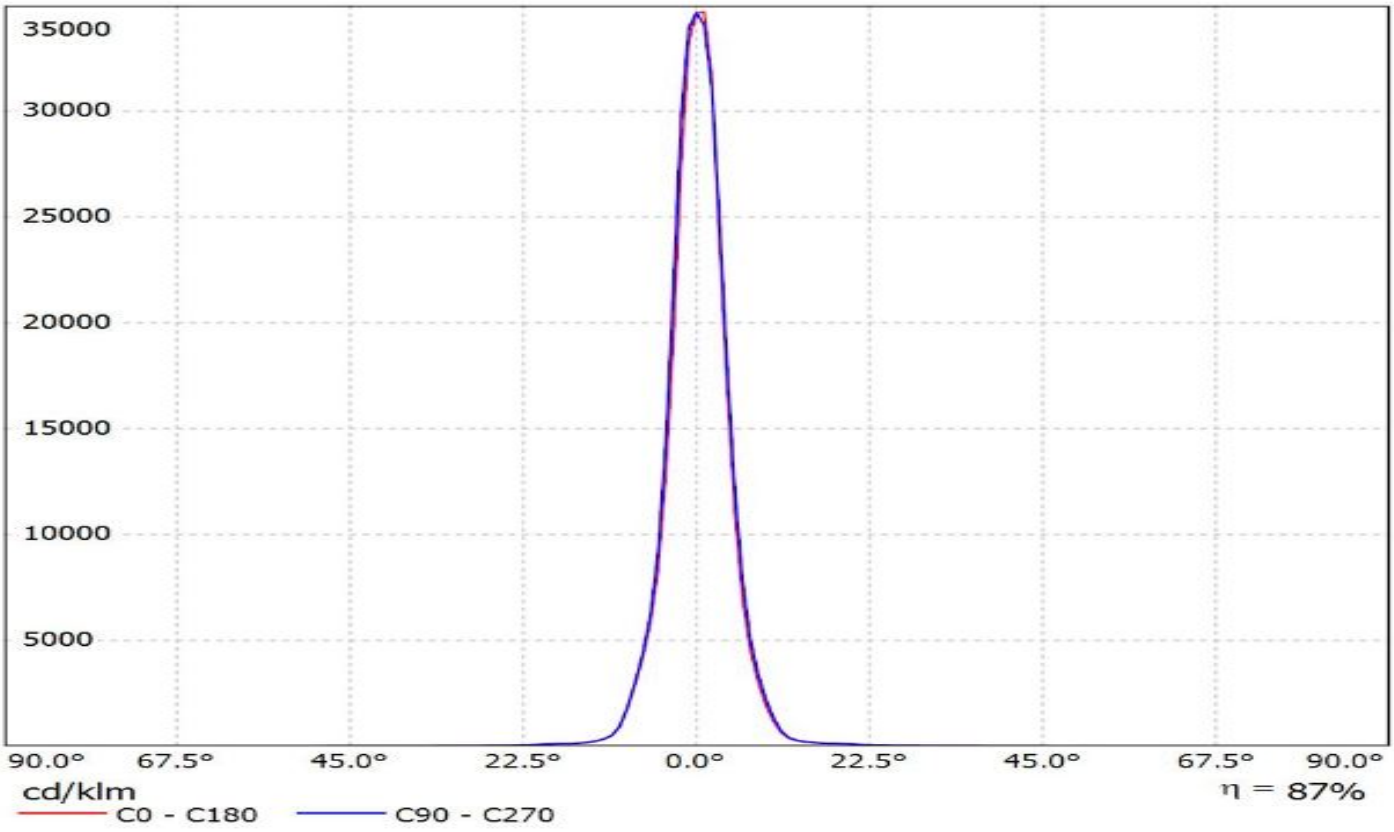
DRAWING TITLE

Crystal Assembly MechDrawing

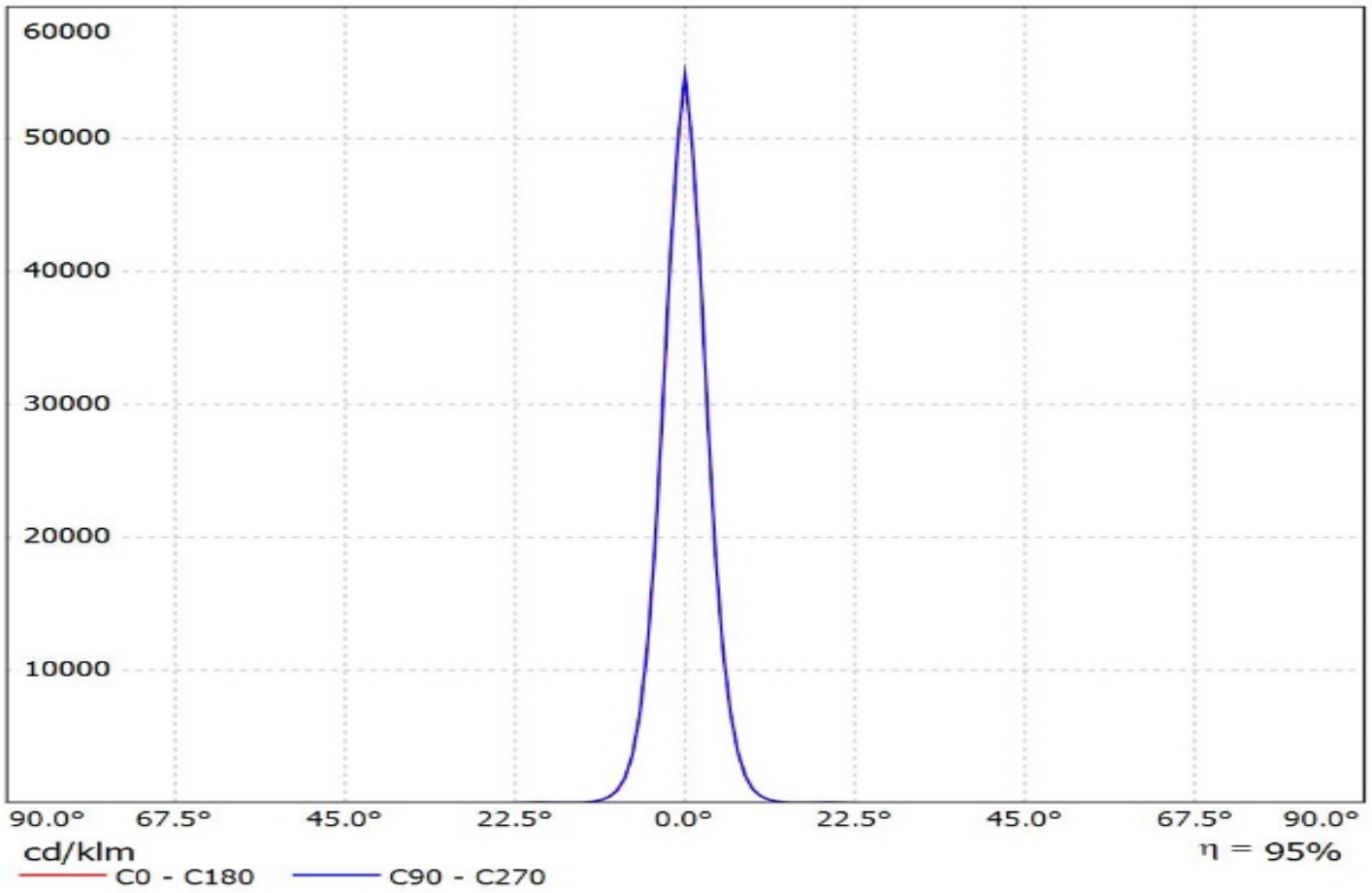
SIZE	PART NUMBER
A4	-

SCALE	WEIGHT		SHEET
1:1	-		1/1

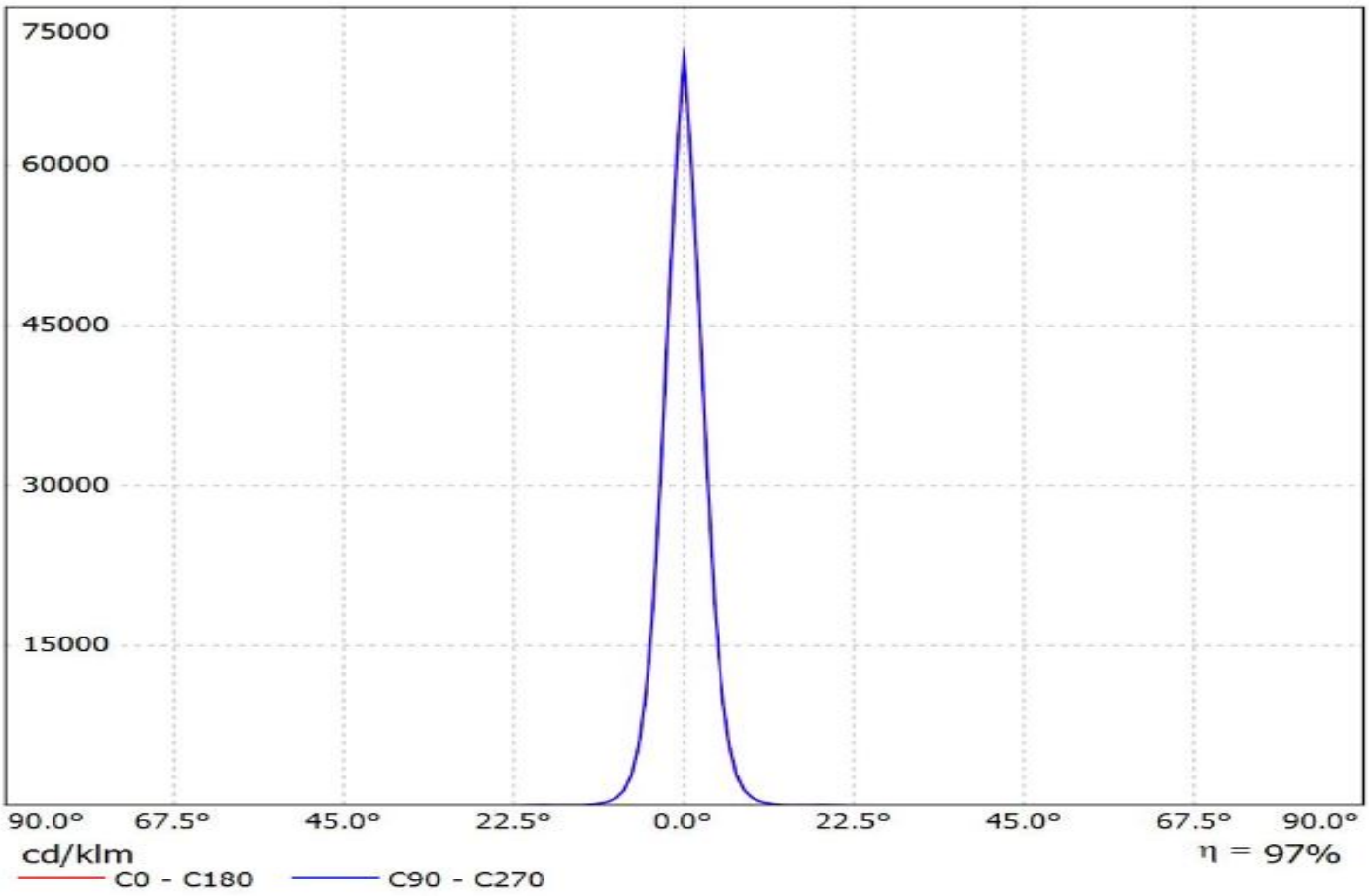
Luminaire: Ledil CN13552_CRYSTAL-RS_(XP-L)
Lamps: 1 x CREE_XP-L_(XPLAWT-0-7A3-U50-0H-0001)
_107.852lm@250mA_CCT=3185K_P=0.7W_I=0.25A



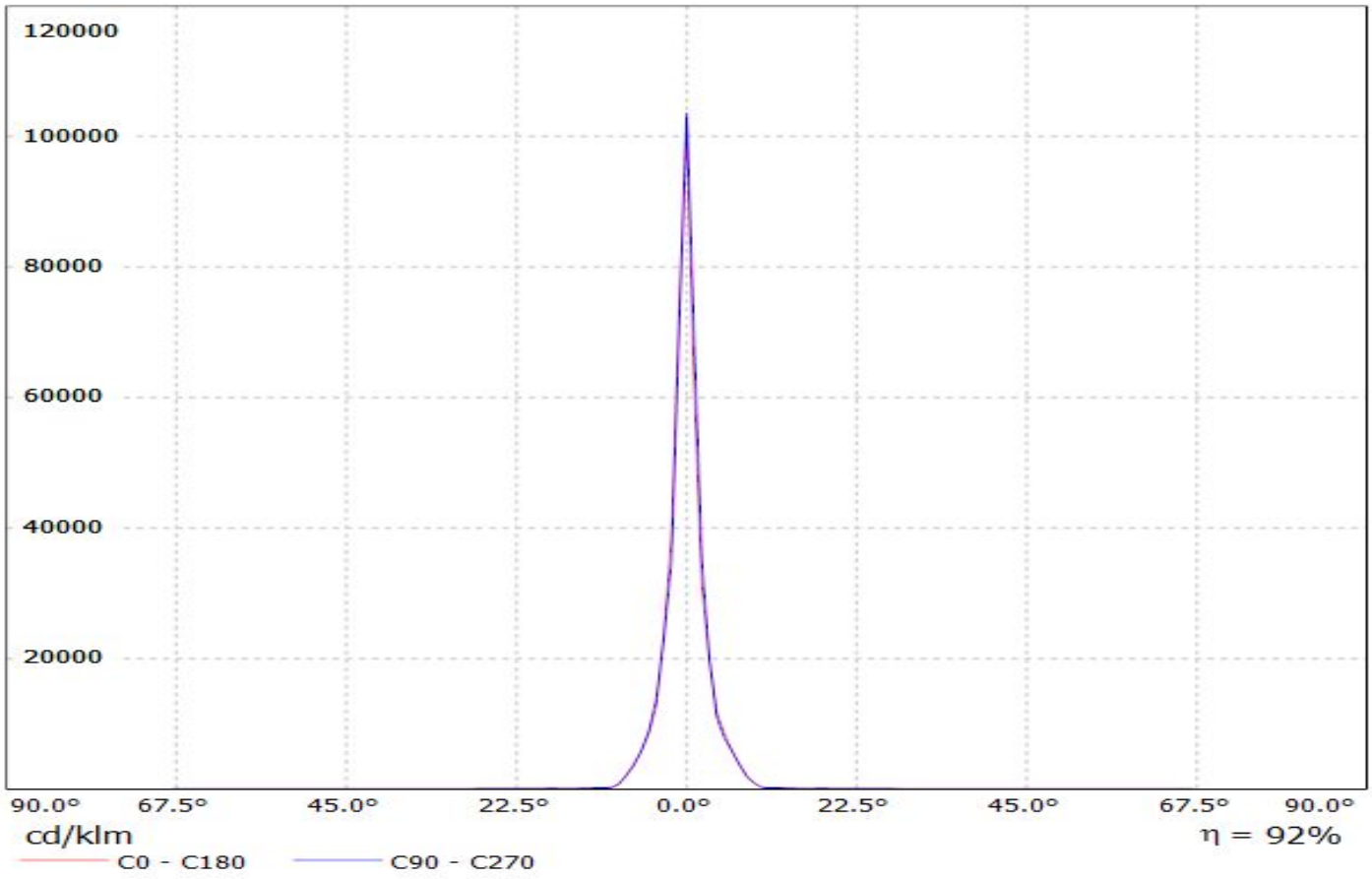
Luminaire: Ledil Oy FCN13552_CRYSTAL-RS_SIMULATED
Lamps: 1 x CREE_XHP35_HI



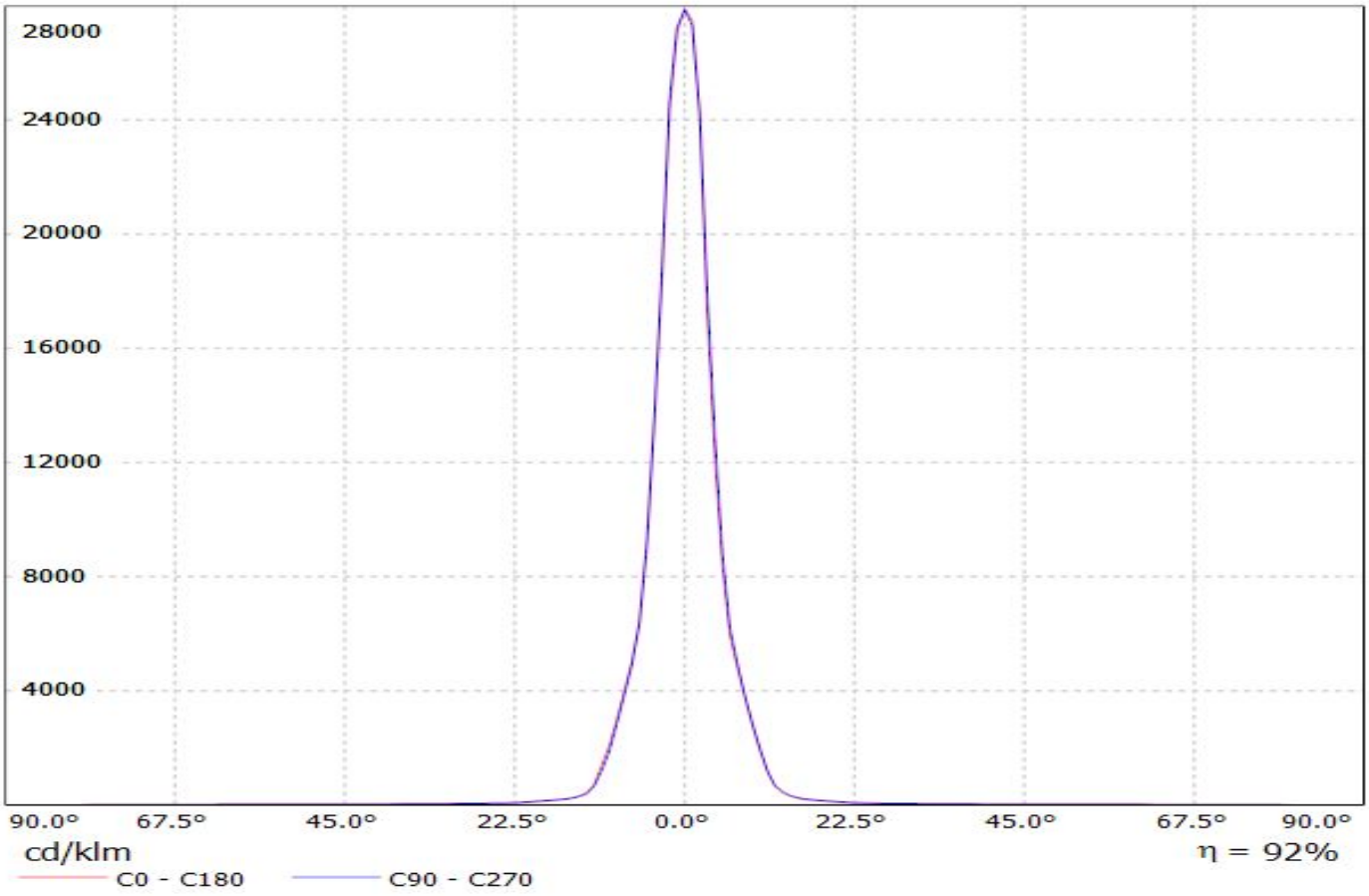
Luminaire: Ledil Oy FCN13552_CRYSTAL-RS_(XP-L HI)_SIMULATED
Lamps: 1 x Cree XP-L HI



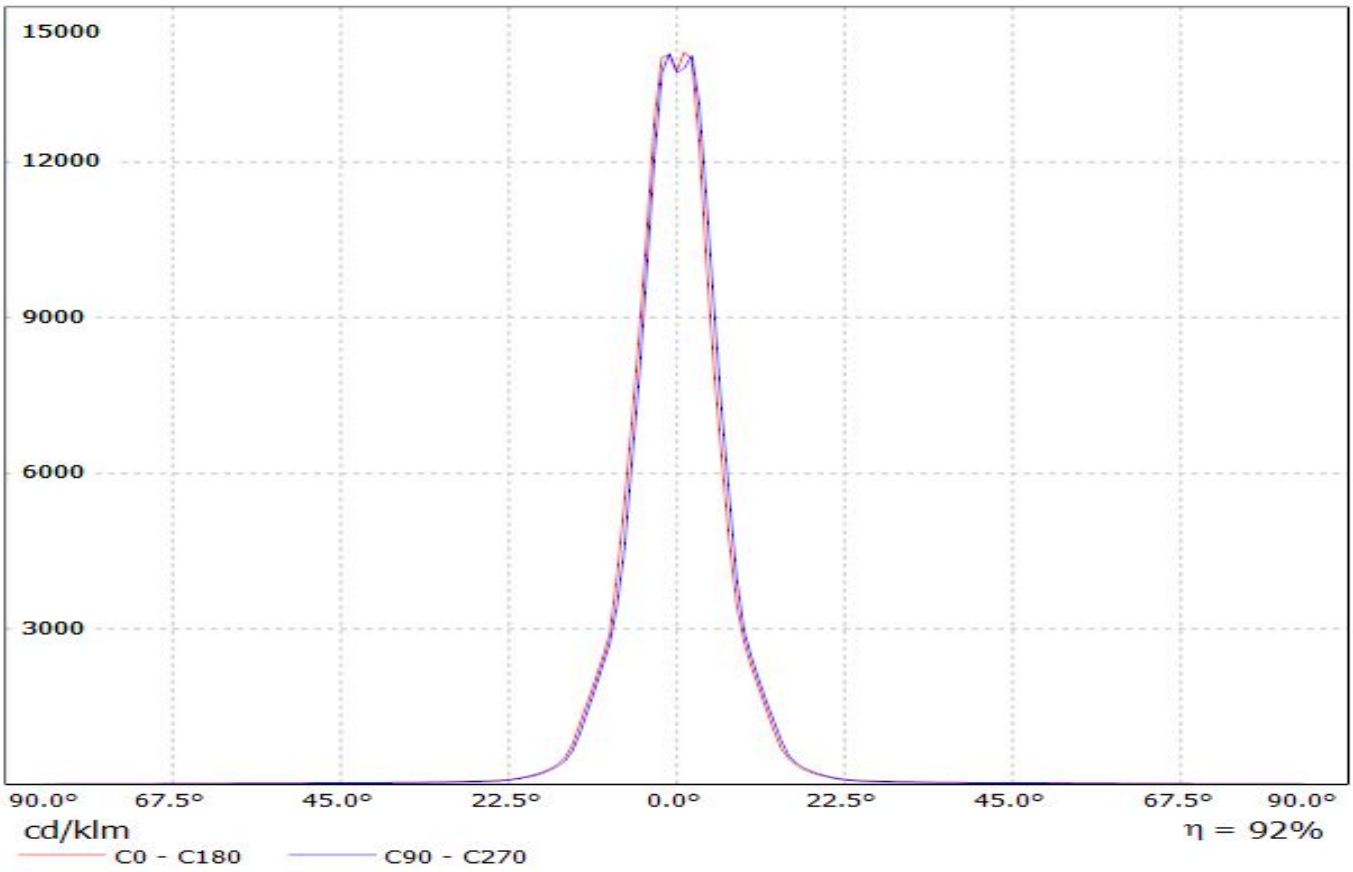
Luminaire: LEDiL Oy CN13552_CRYSTAL-RS_(Z_ES)
Lamps: 1 x Philips_Lumileds_Luxeon_Z_ES_(LXZ2-5070)
_84.6528lm@250mA_P=0.730483W_I=249.9mA



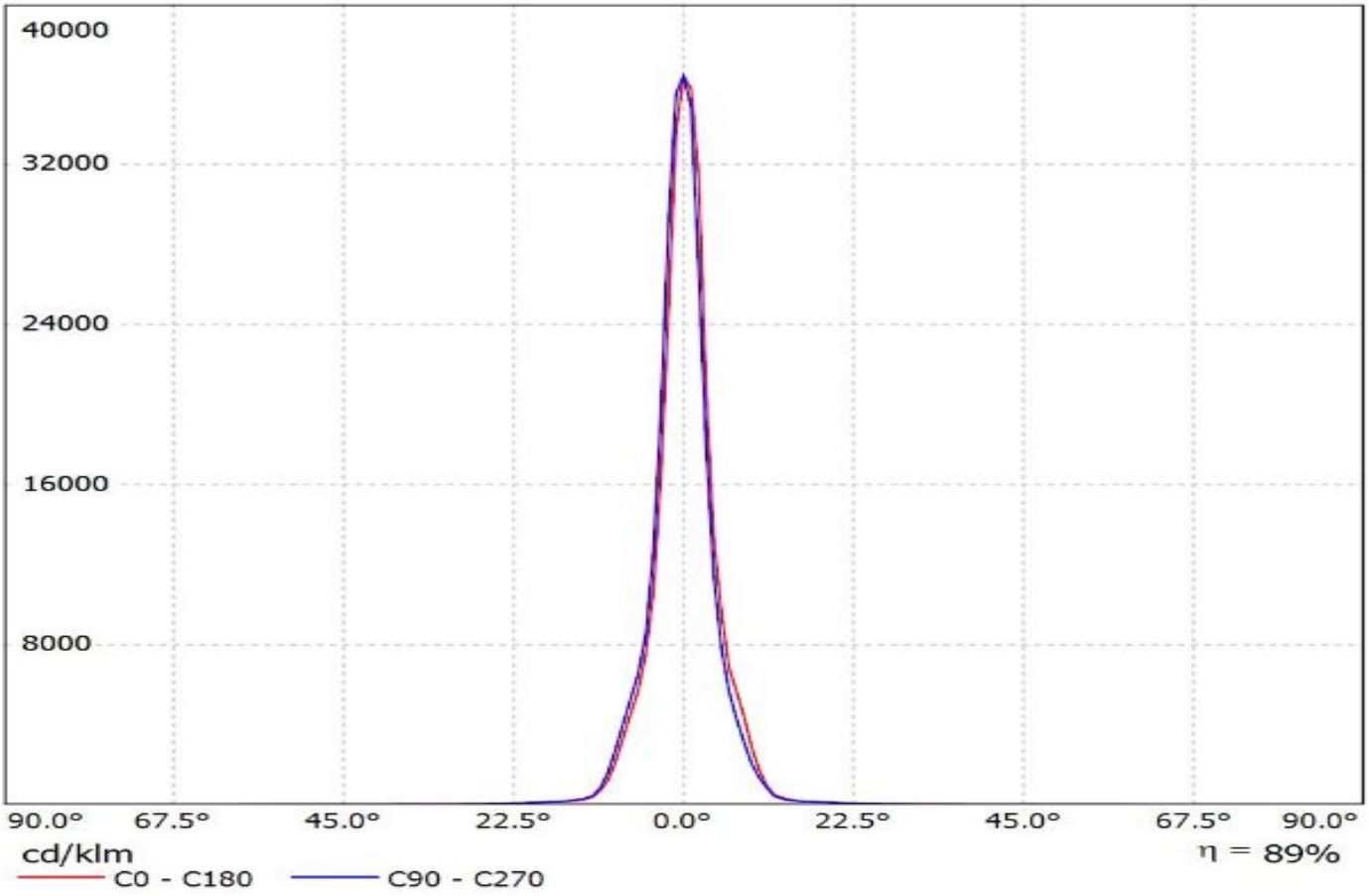
Luminaire: LEDiL Oy FCN13552_CRYSTAL-RS_(NWSL229AE)
Lamps: 1 x Nichia_NWSL229AE_120.514lm@250mA_P=0.7132W_I=0.250A



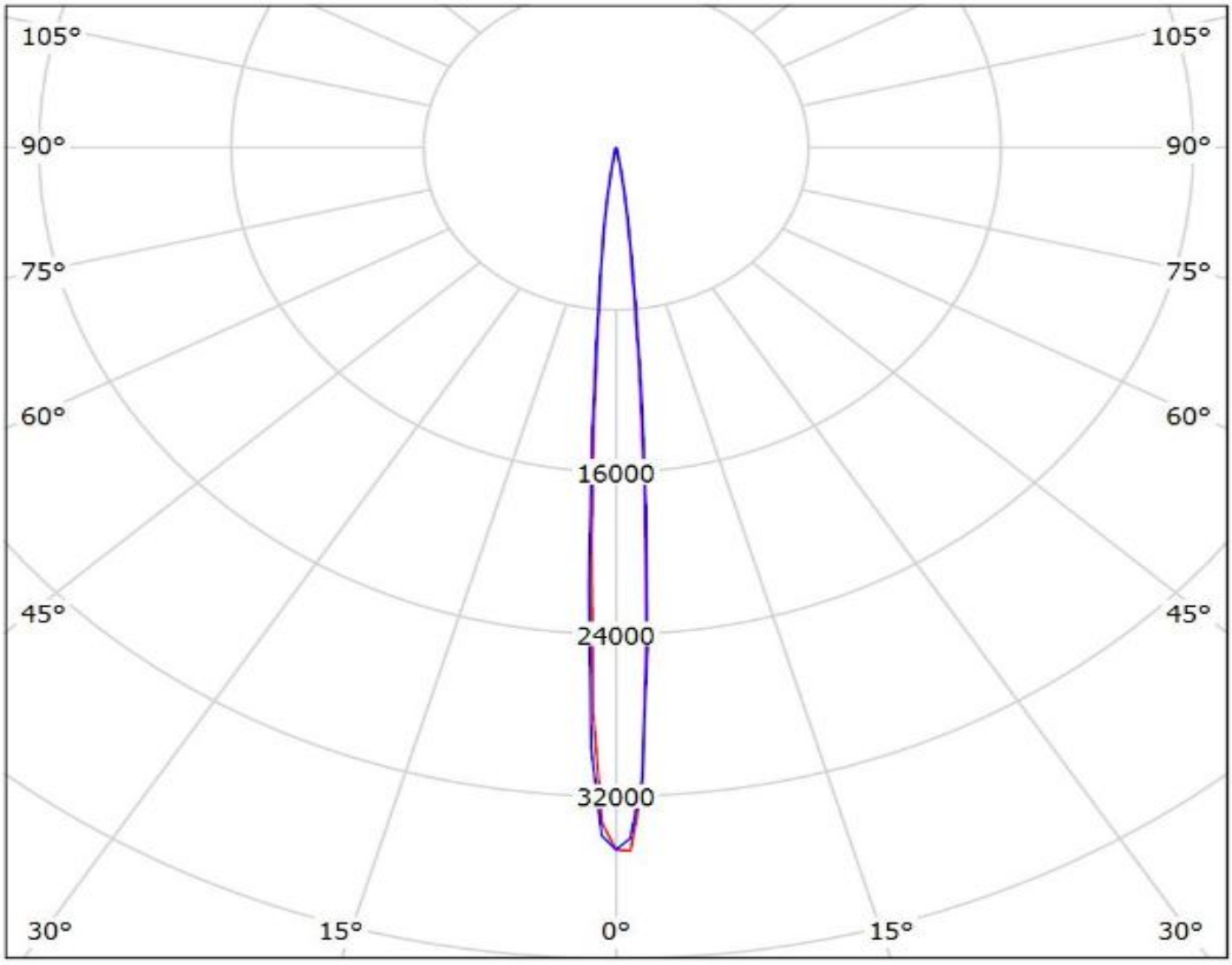
Luminaire: LEDiL Oy FCN13552_CRYSTAL-RS_(Nichia_NV4x144A)
Lamps: 1 x Nichia_NV4x144A_478.709lm@250mA_P=2.8097W_I=0.250A



Luminaire: Ledil FCN13552_CRYSTAL-RS_(NVSW319AE)
Lamps: 1 x Nichia_NVSW319AE_126.239lm@250mA_P=0.729675W_I=0.25A



Luminaire: Ledil CN13552_CRYSTAL-RS_(XP-L)
Lamps: 1 x CREE_XP-L_(XPLAWT-0-7A3-U50-0H-0001)
_107.852lm@250mA_CCT=3185K_P=0.7W_I=0.25A

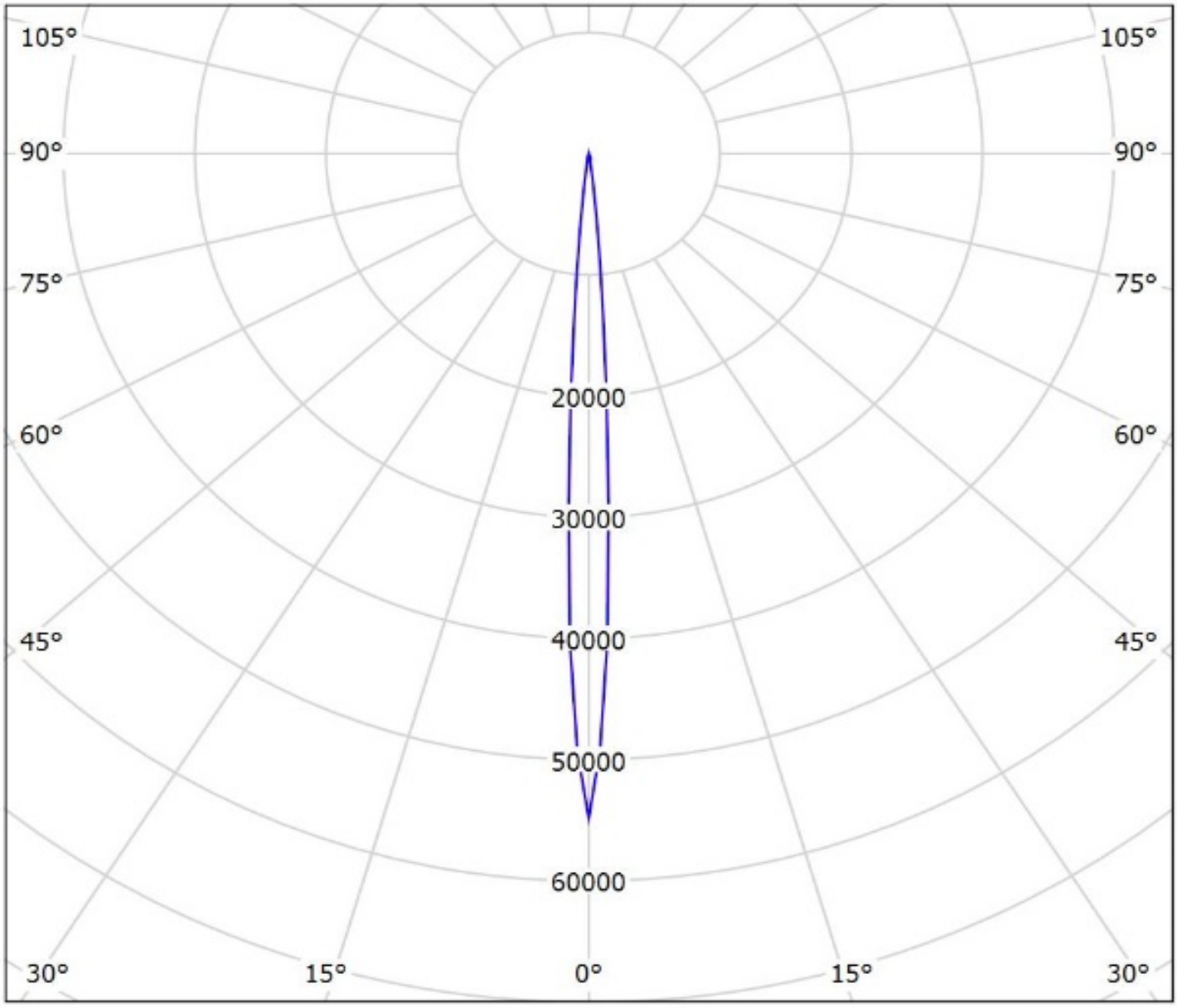


cd/klm

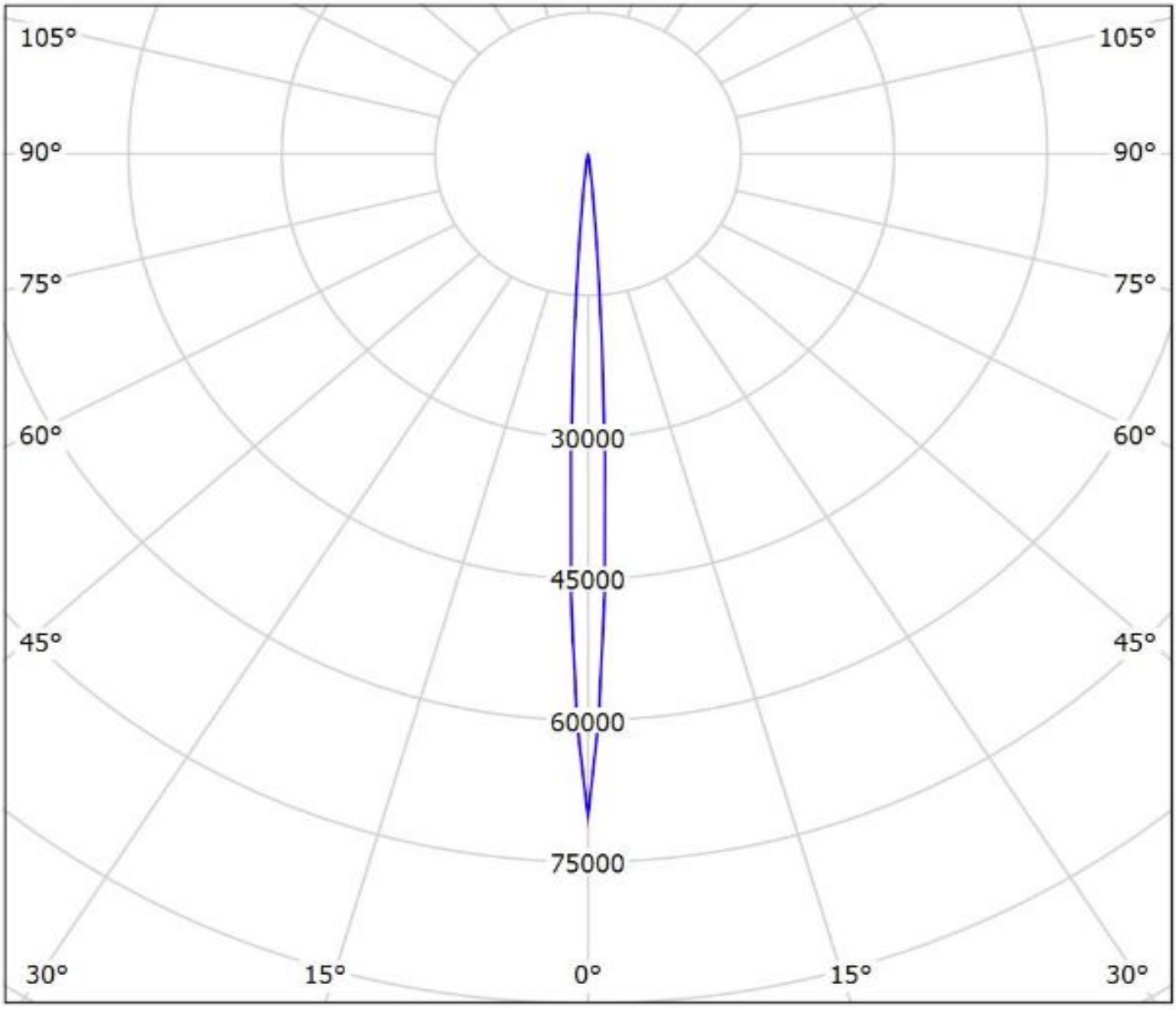
η = 87%

C0 - C180 C90 - C270

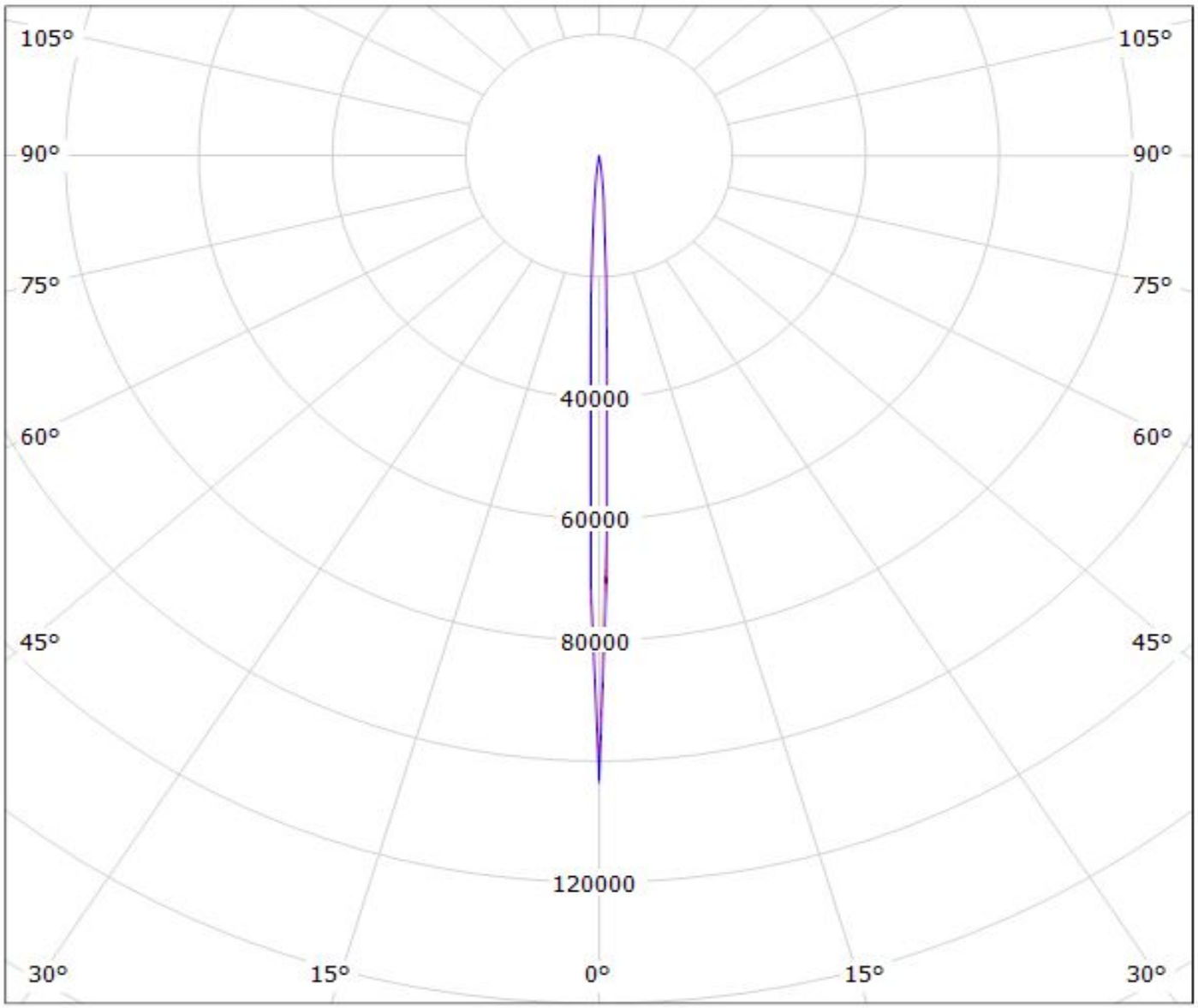
Luminaire: Ledil Oy FCN13552_CRYSTAL-RS_SIMULATED
Lamps: 1 x CREE_XHP35_HI



Luminaire: Ledil Oy FCN13552_CRYSTAL-RS_(XP-L HI)_SIMULATED
Lamps: 1 x Cree XP-L HI



Luminaire: LEDiL Oy CN13552_CRYSTAL-RS_(Z_ES)
Lamps: 1 x Philips_Lumileds_Luxeon_Z_ES_(LXZ2-5070)
_84.6528lm@250mA_P=0.730483W_I=249.9mA

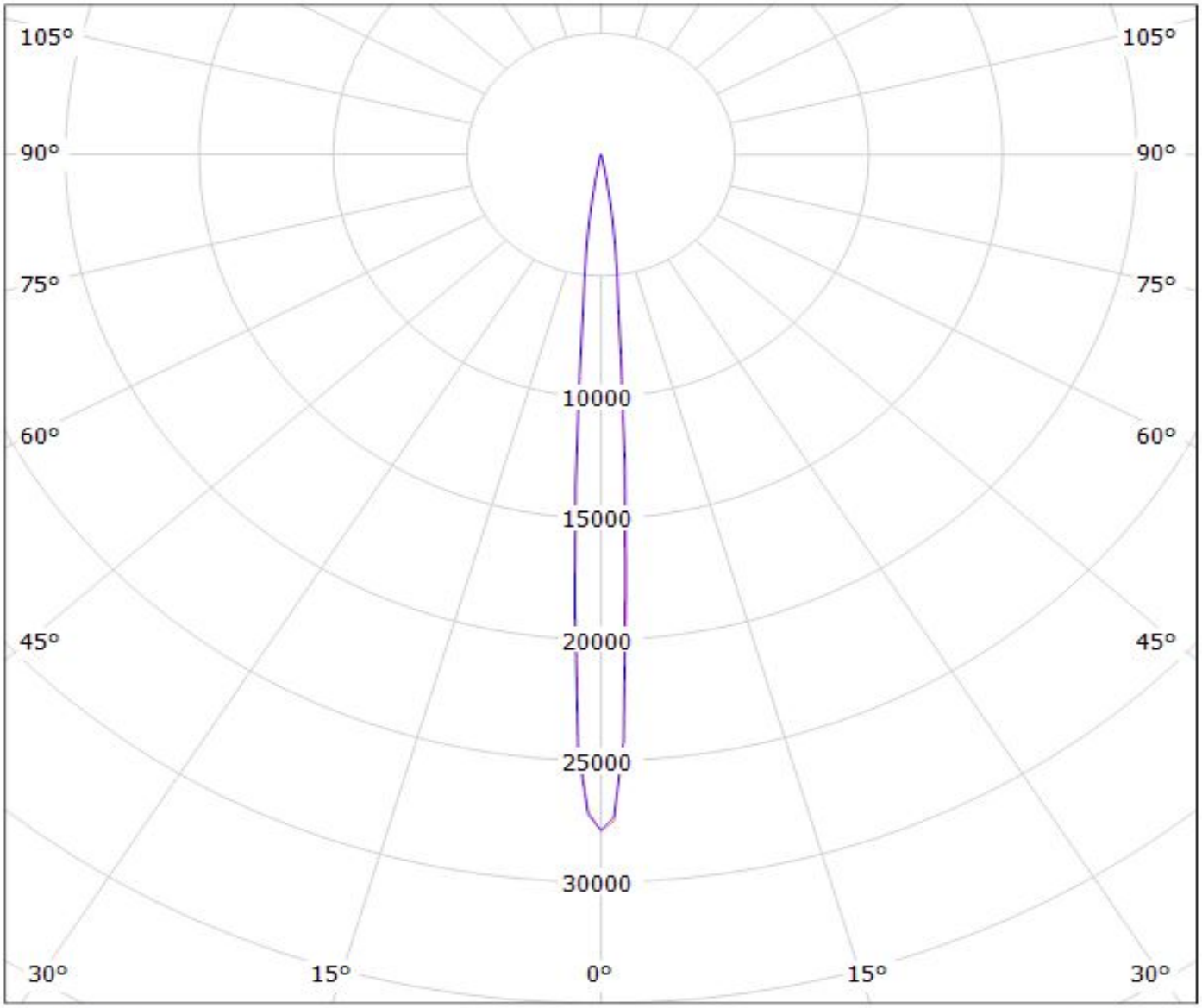


cd/klm

η = 92%

C0 - C180 C90 - C270

Luminaire: LEDiL Oy FCN13552_CRYSTAL-RS_(NWSL229AE)
Lamps: 1 x Nichia_NWSL229AE_120.514lm@250mA_P=0.7132W_I=0.250A

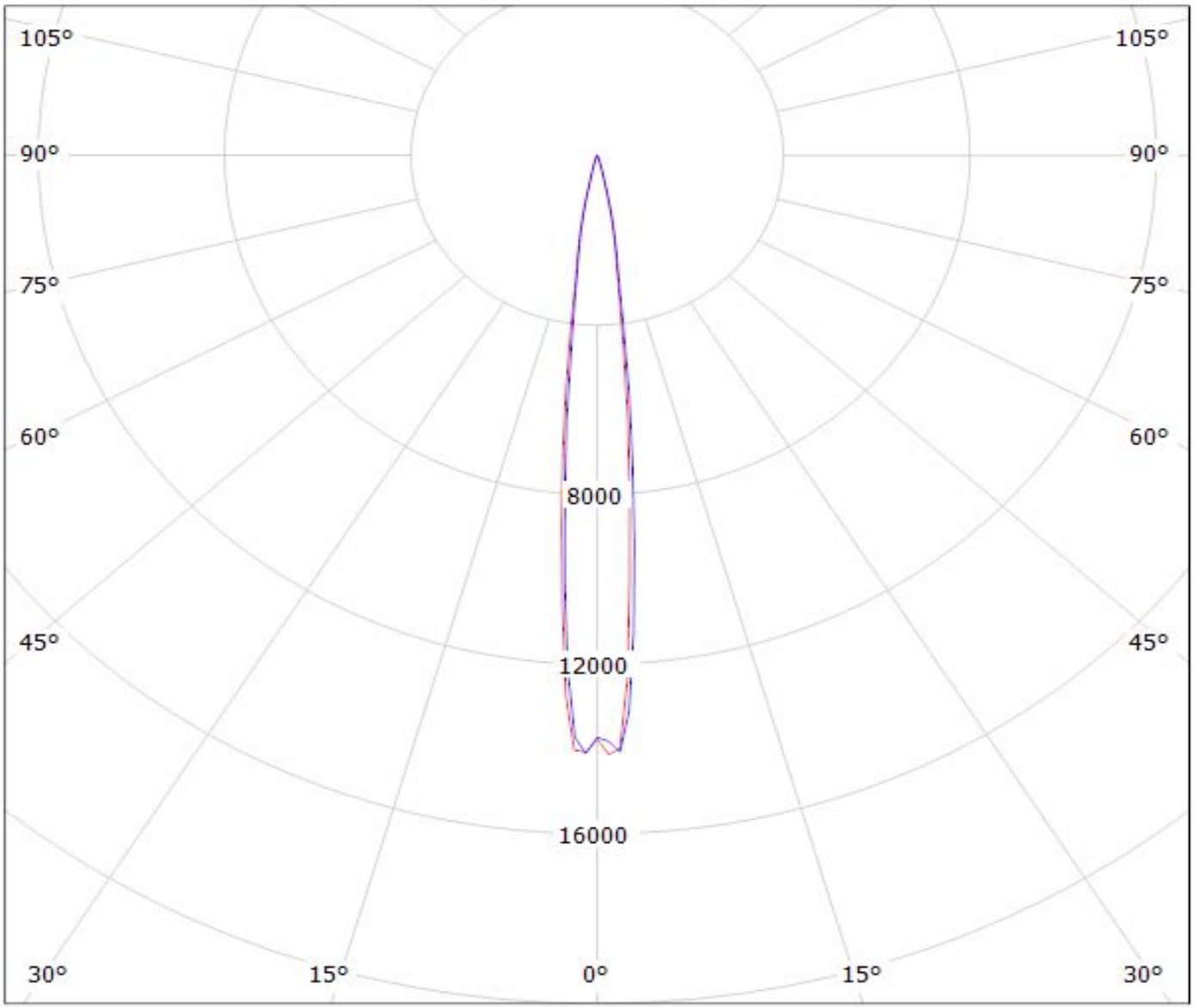


cd/klm

η = 92%

C0 - C180 C90 - C270

Luminaire: LEDiL Oy FCN13552_CRYSTAL-RS_(Nichia_NV4x144A)
Lamps: 1 x Nichia_NV4x144A_478.709lm@250mA_P=2.8097W_I=0.250A

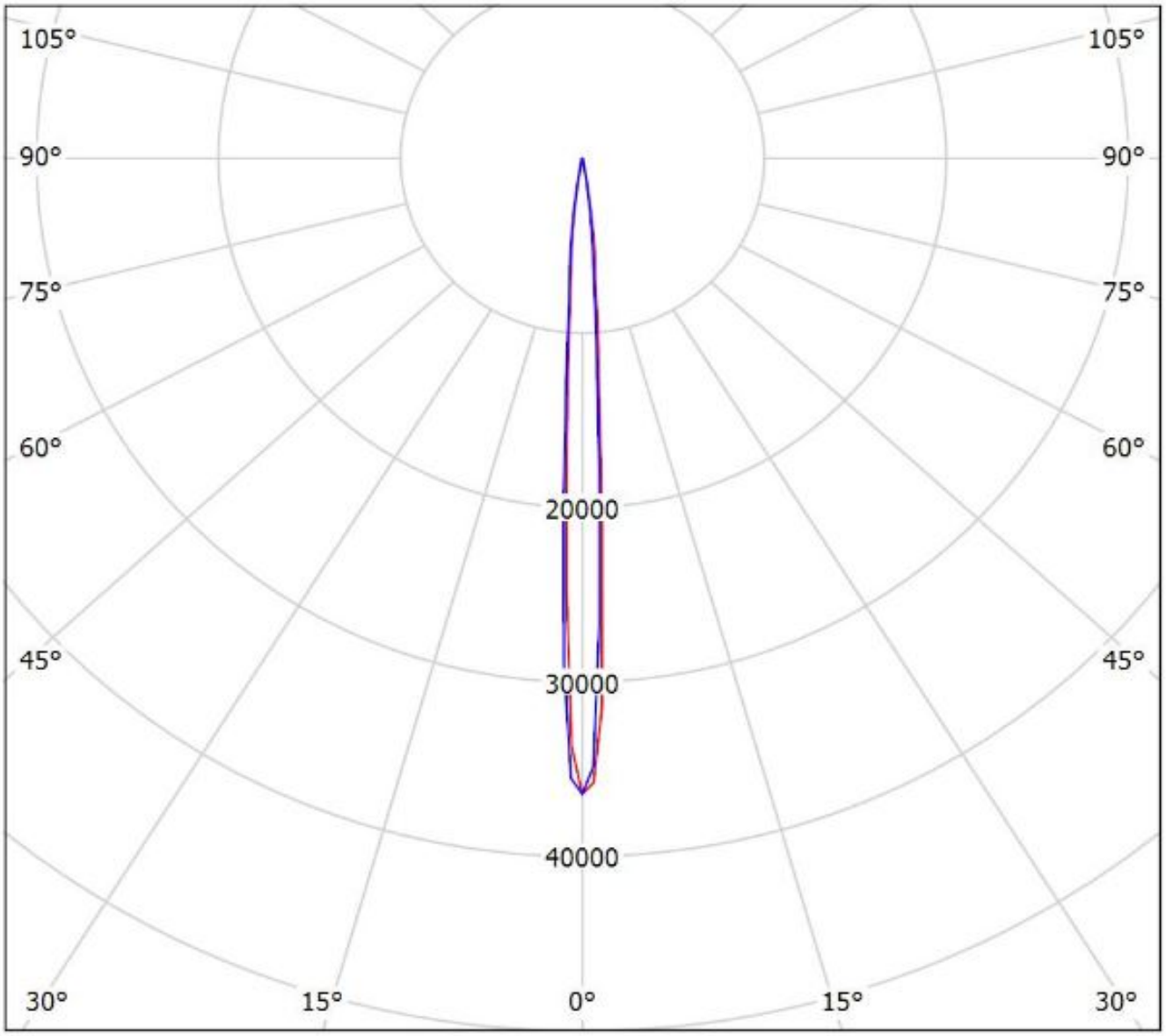


cd/klm

η = 92%

C0 - C180 C90 - C270

Luminaire: Ledil FCN13552_CRYSTAL-RS_(NVSW319AE)
Lamps: 1 x Nichia_NVSW319AE_126.239lm@250mA_P=0.729675W_I=0.25A



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.