

DETAILS

Product Number	C14607_HB-2X2-M
Family	HB
Type	Lens array
Color	clear
Diameter	50x50 mm
Height	8,5 mm
Style	square
Optic Material	PMMA
Holder Material	
Fastening	pin, screw
Status	production ready
ROHS Compliant	Yes
Date Updated	3/01/2017



OPTICAL PROPERTIES

LED	Viewing	Light	Effi-		Connector
	Angle	Beam	ciency	cd/lm	
XM-L	32 deg	Medium	93 %	2.040	-
XP-L	31 deg	Medium	94 %	2.213	-
XM-L2	32 deg	Medium	92 %	2.112	-
XP-G3	sim: 28	Medium	sim: 92 %	sim: 3.000	-
XP-G2	25 deg	Medium	-	3.100	-
XP-L2	31 deg	Medium	93 %	2.100	-
LUXEON MZ	30 deg	Medium	91 %	2.400	-
LUXEON 5050	34 deg	Medium	94 %	1.950	-
NWSx229A	33 deg	Medium	87 %	2.200	-
NVSW3x9A	28 deg	Medium	94 %	2.800	-
Duris S8	sim: 33	Medium	sim: 88 %	sim: 2.000	-
Oslon Square Gen3	23 deg	Medium	91 %	3.750	-
Fortimo FastFlex LED board 2x8 DA G4	25 deg	Medium	92 %	3.000	-
LH351B	28 deg	Medium	85 %	2.720	-
LH351D	35 deg	Medium	91 %	1.900	-
Z8Y22P	25 deg	Medium	92 %	3.100	-
RLE G1 49x223mm 4000lm xxx EXC OT	24 deg	Medium	94 %	3.000	-
RLE G1 49x245mm 4000lm xxx EXC OT	24 deg	Medium	94 %	3.000	-
RLE G1 49x121mm 2000lm xxx EXC OT	24 deg	Medium	94 %	3.000	-
RLE G1 49x133mm 2000lm xxx EXC OT	24 deg	Medium	94 %	3.000	-

D

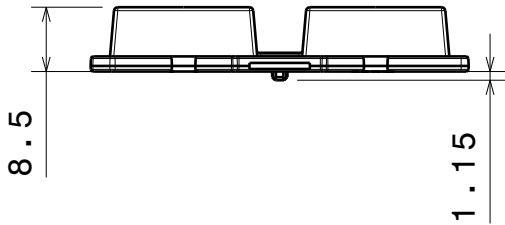
C

B

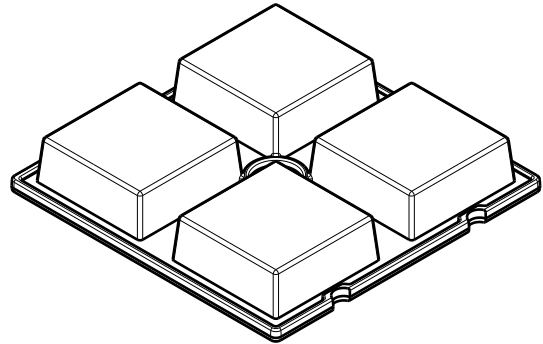
A

4

4



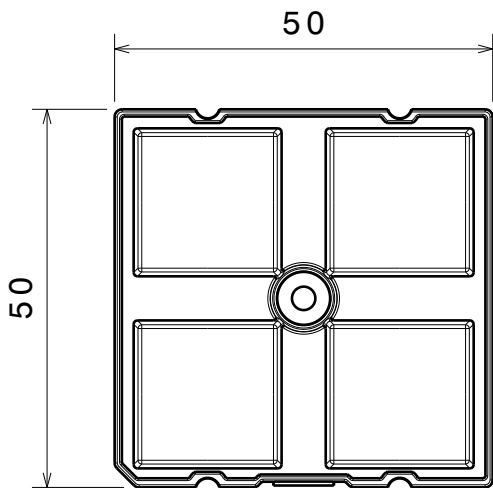
Front view



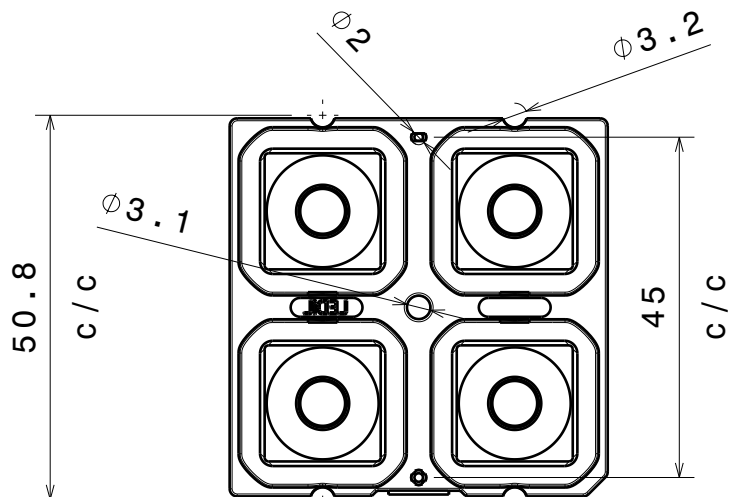
Isometric view

3

3



Top view



Bottom view

2

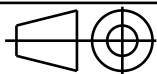
2

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

C14607_HB-2X2-M

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

C14607

SCALE	1:1	WEIGHT	10,53 g	SHEET	1/1
-------	-----	--------	---------	-------	-----

D

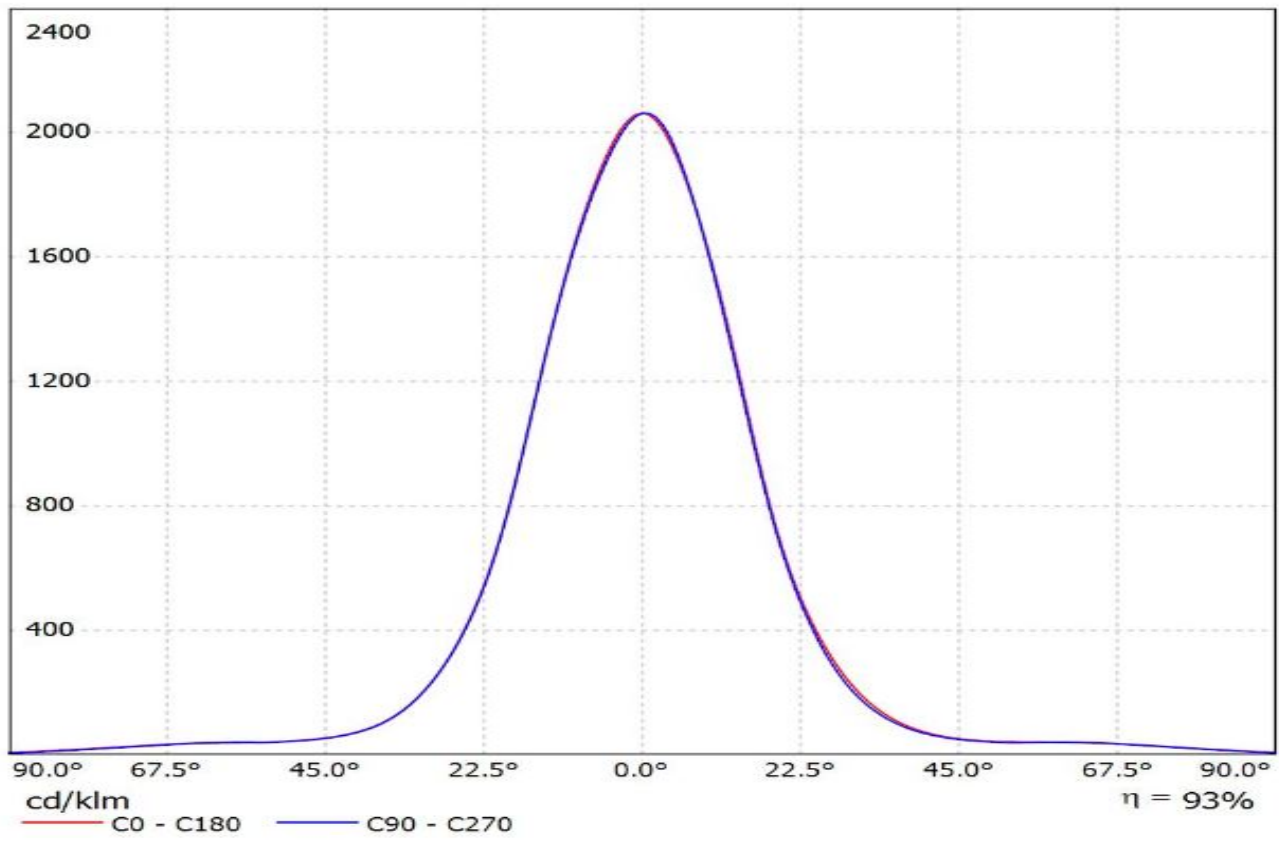
A

1

1

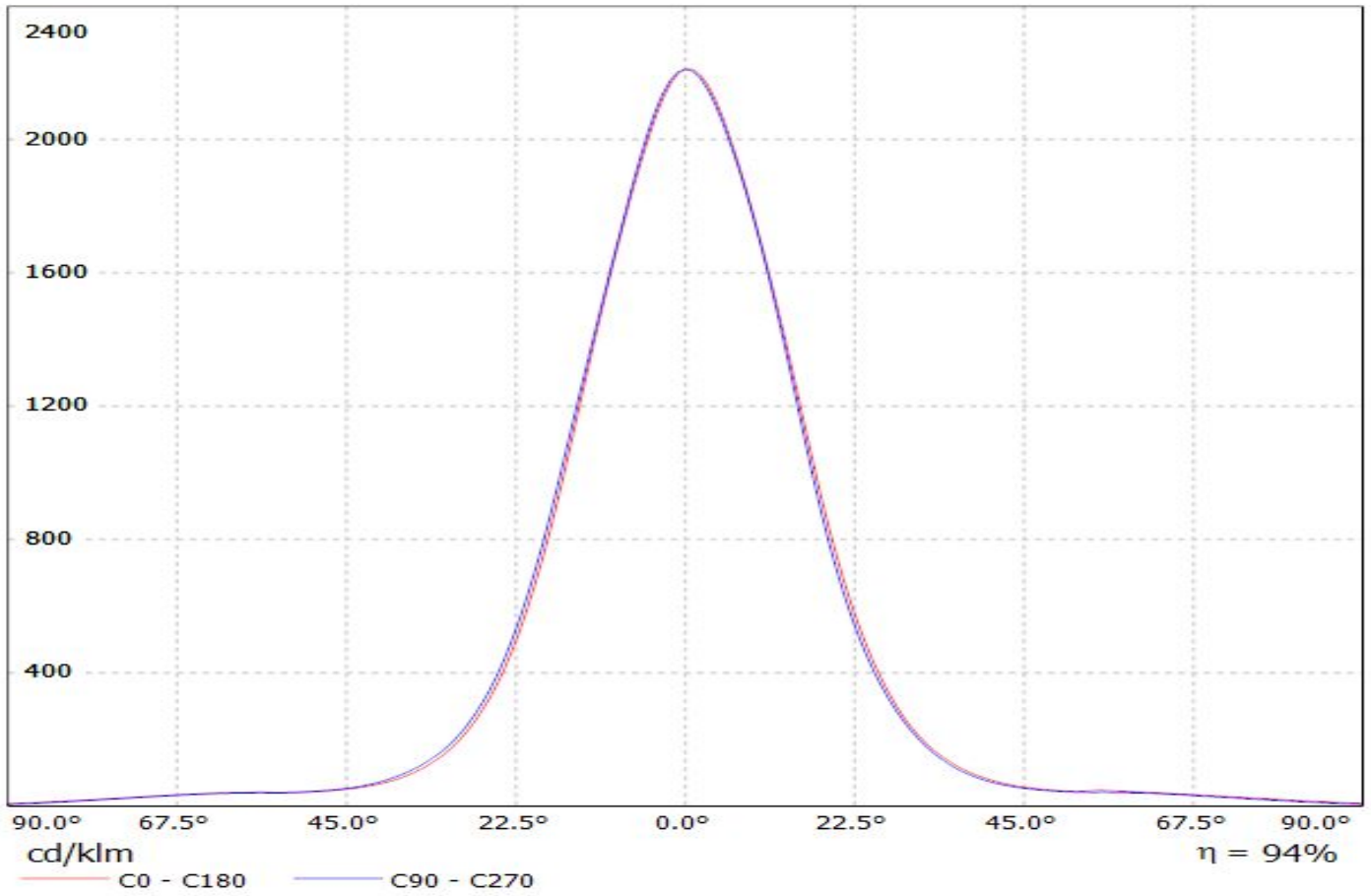
Luminaire: LEDiL Oy C14607_HB-2X2-M_(XM-L)

Lamps: 1 x Cree_XM-L_2x2_(XMLAWT-00-0000-000LT20E7)_334.631lm@250mA_P=2.75215W_I=0.2499A



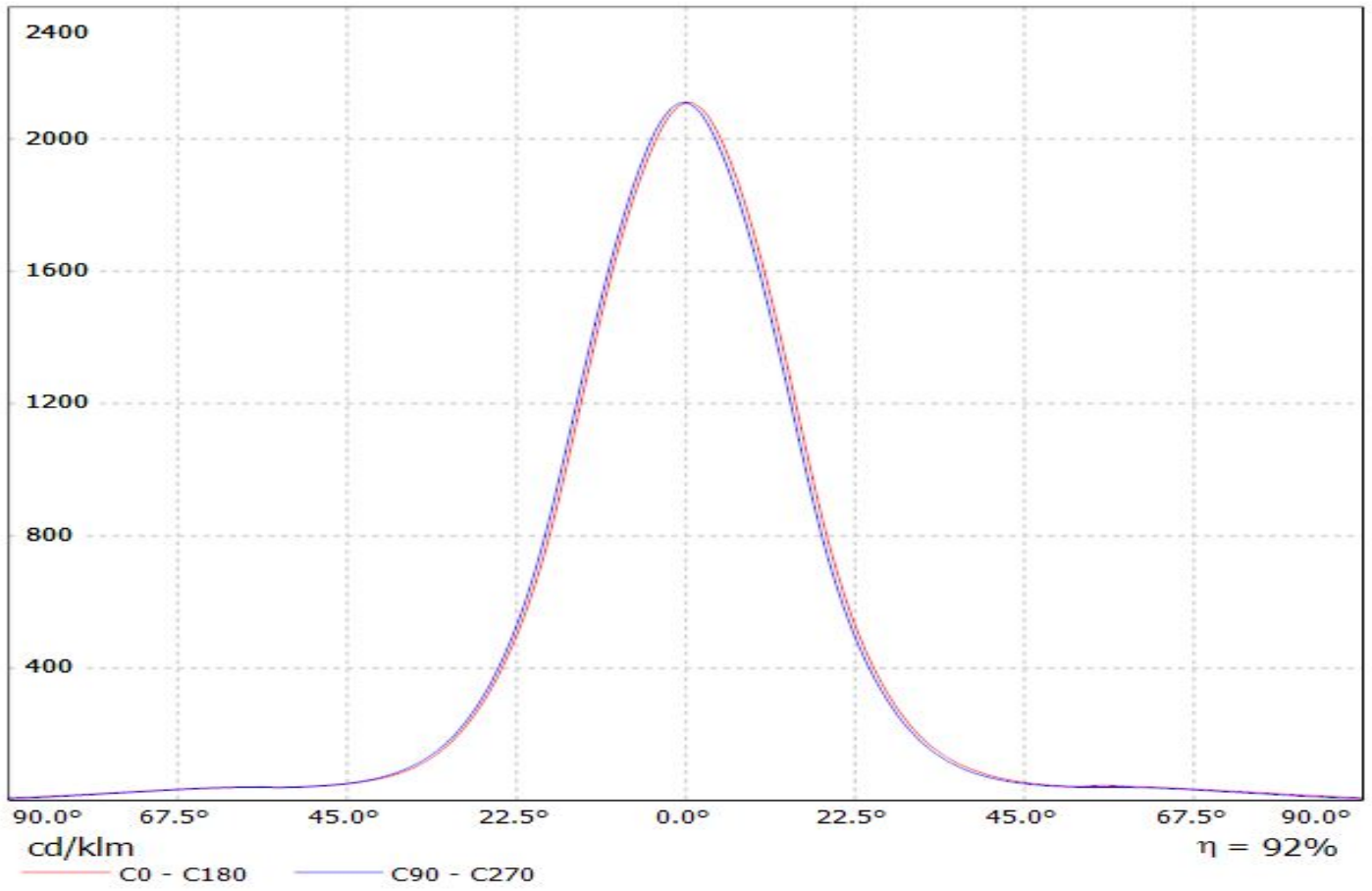
Luminaire: LEDiL Oy C14607_HB-2X2-M_(XP-L)

Lamps: 1 x Cree_XP-L_(XPLAWT-1B0-V40-00-0001)_496.74lm@250mA_P=2.80138W_I=0.2499A

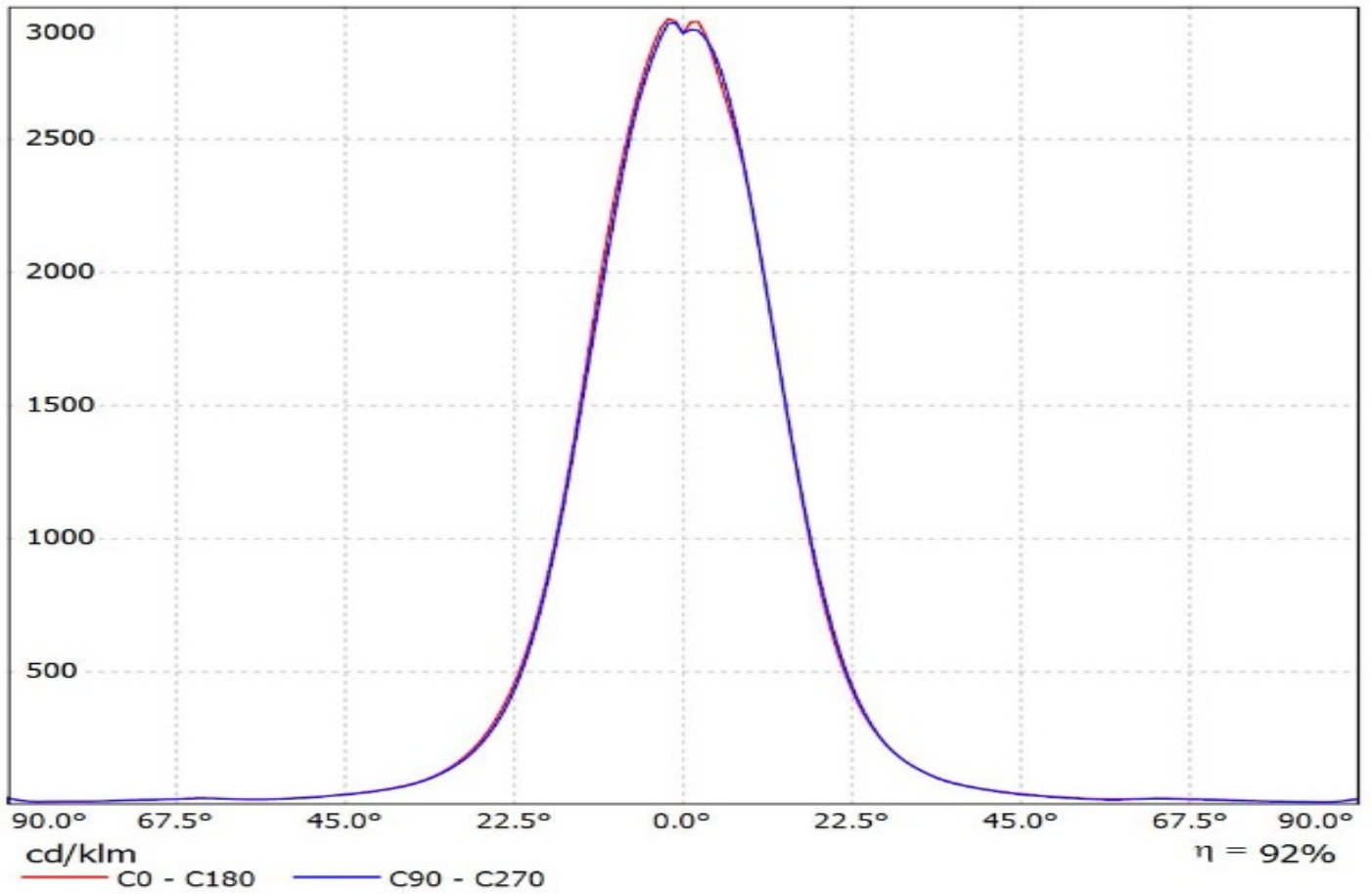


Luminaire: LEDiL Oy C14607_HB-2X2-M_(XM-L2)

Lamps: 1 x Cree_XM-L2_2X2_(XMLBWT-0-7B4-0L-0001)_354.093lm@250mA_P=2.81687W_η=0.2499A

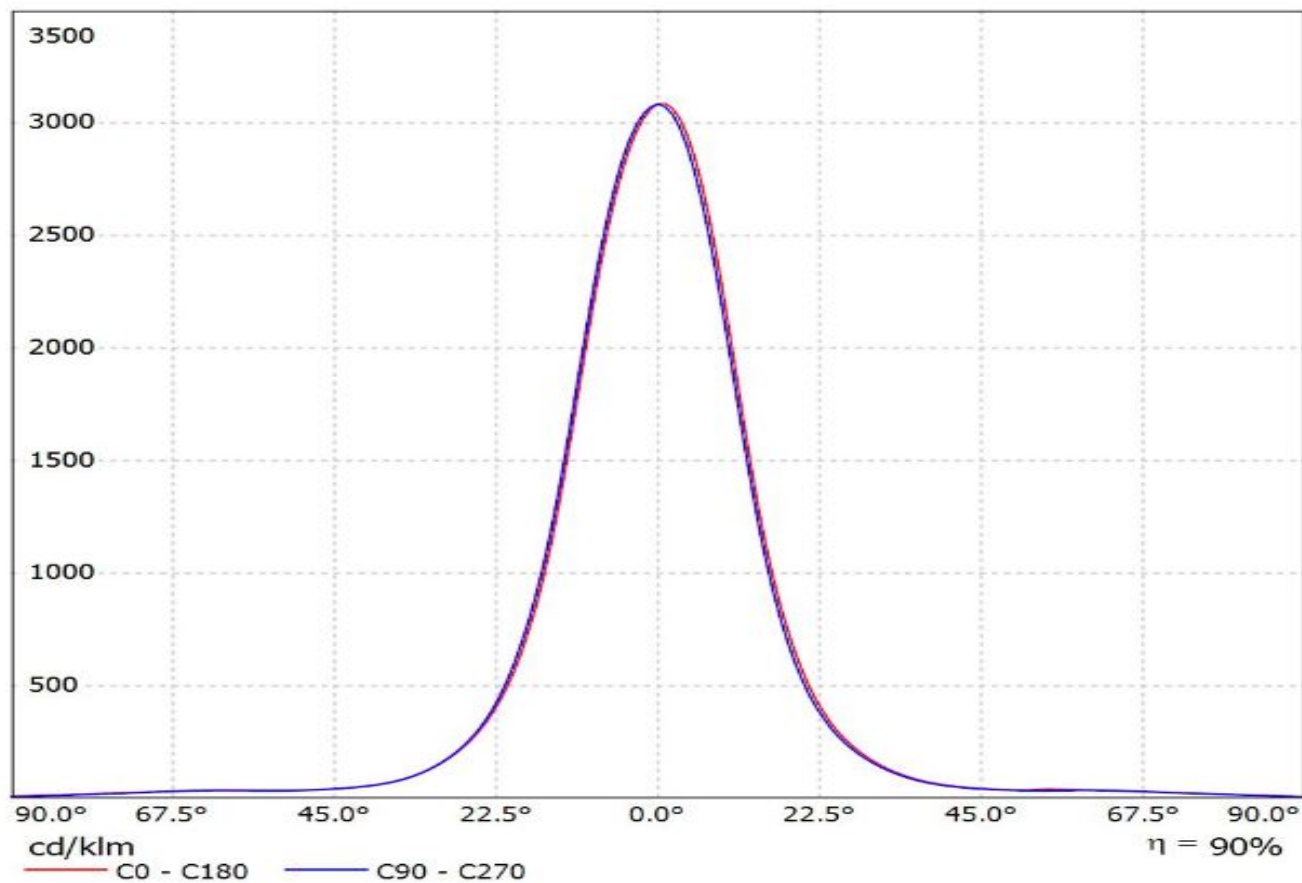


Luminaire: Ledil Oy C14607_HB-2X2-M_(XP-G3)_SIMULATED
Lamps: 1 x Cree XP-G3



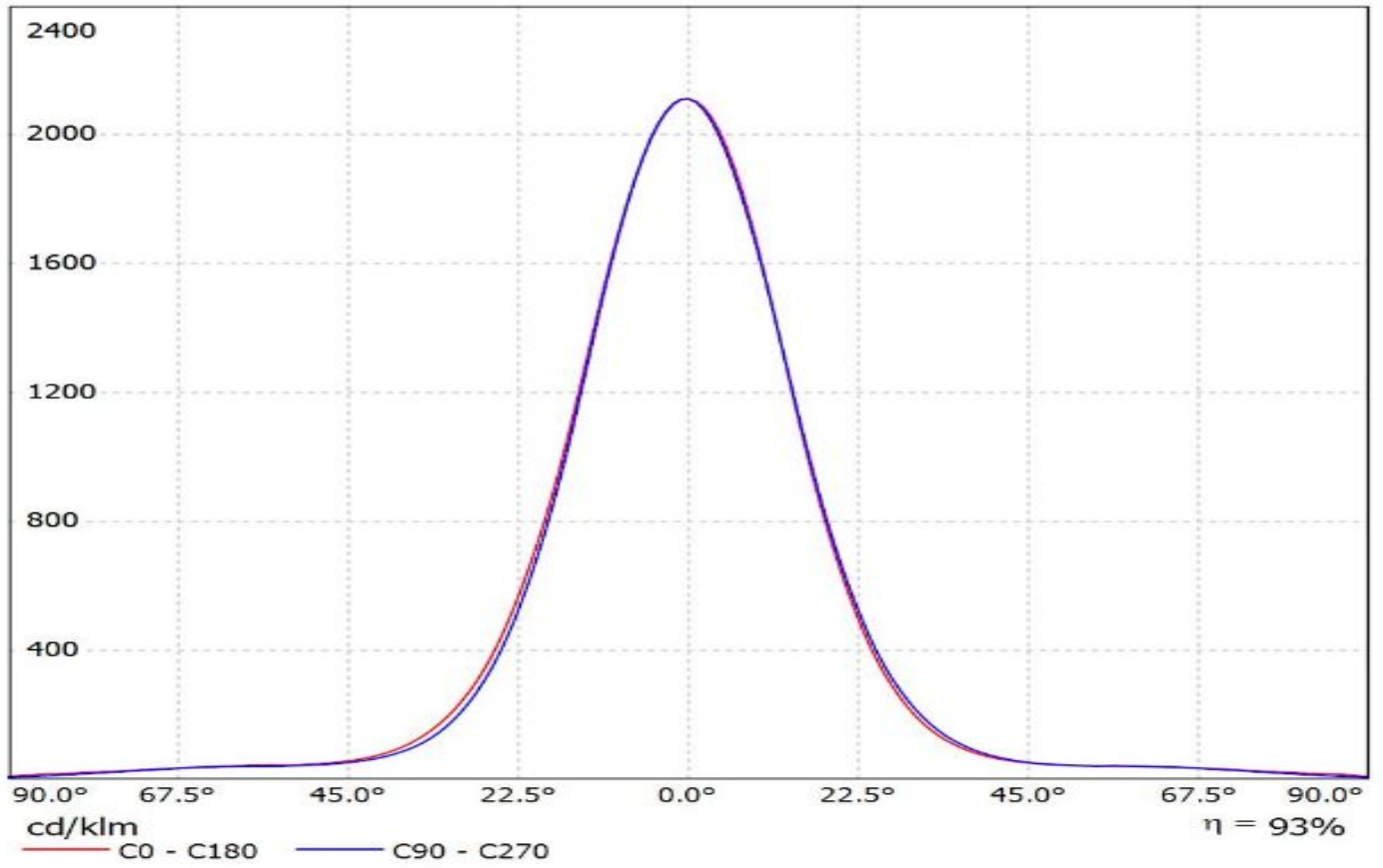
Luminaire: Ledil C14607_HB-2X2-M (XP-G2)

Lamps: 1 x Cree_XP-G2_2x2_(XPGBWT-L1-000-00-G51)_421.786lm@250mA_P=2.9665W_I=0.250A



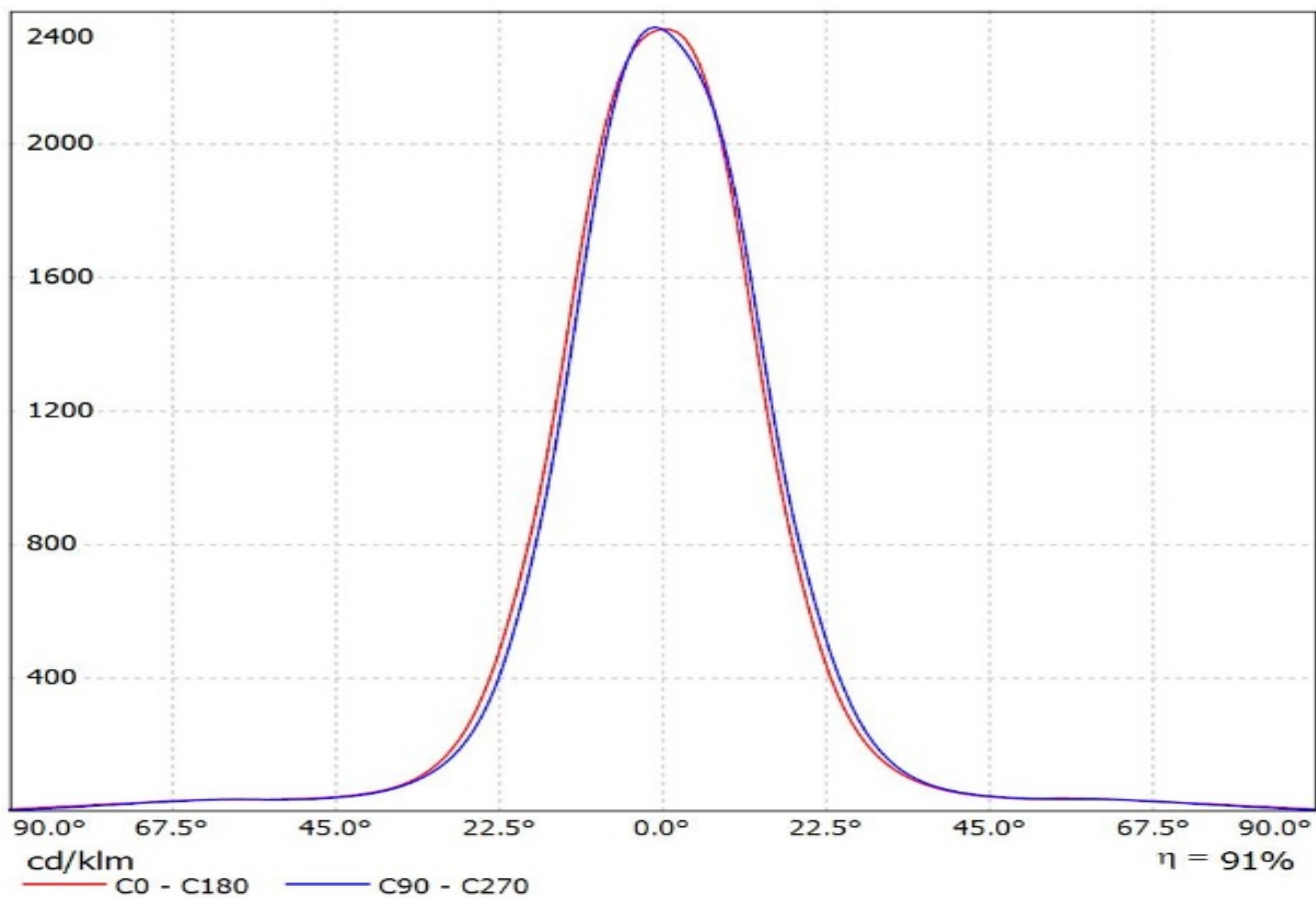
Luminaire: Ledil C14607_HB-2X2-M_(XP-L2)

Lamps: 1 x Cree_XP-L2_2x2_(XPLBWT-00-0000-000BV50E3)550.93lm@250mA_P=2.7815W_I=0.25A



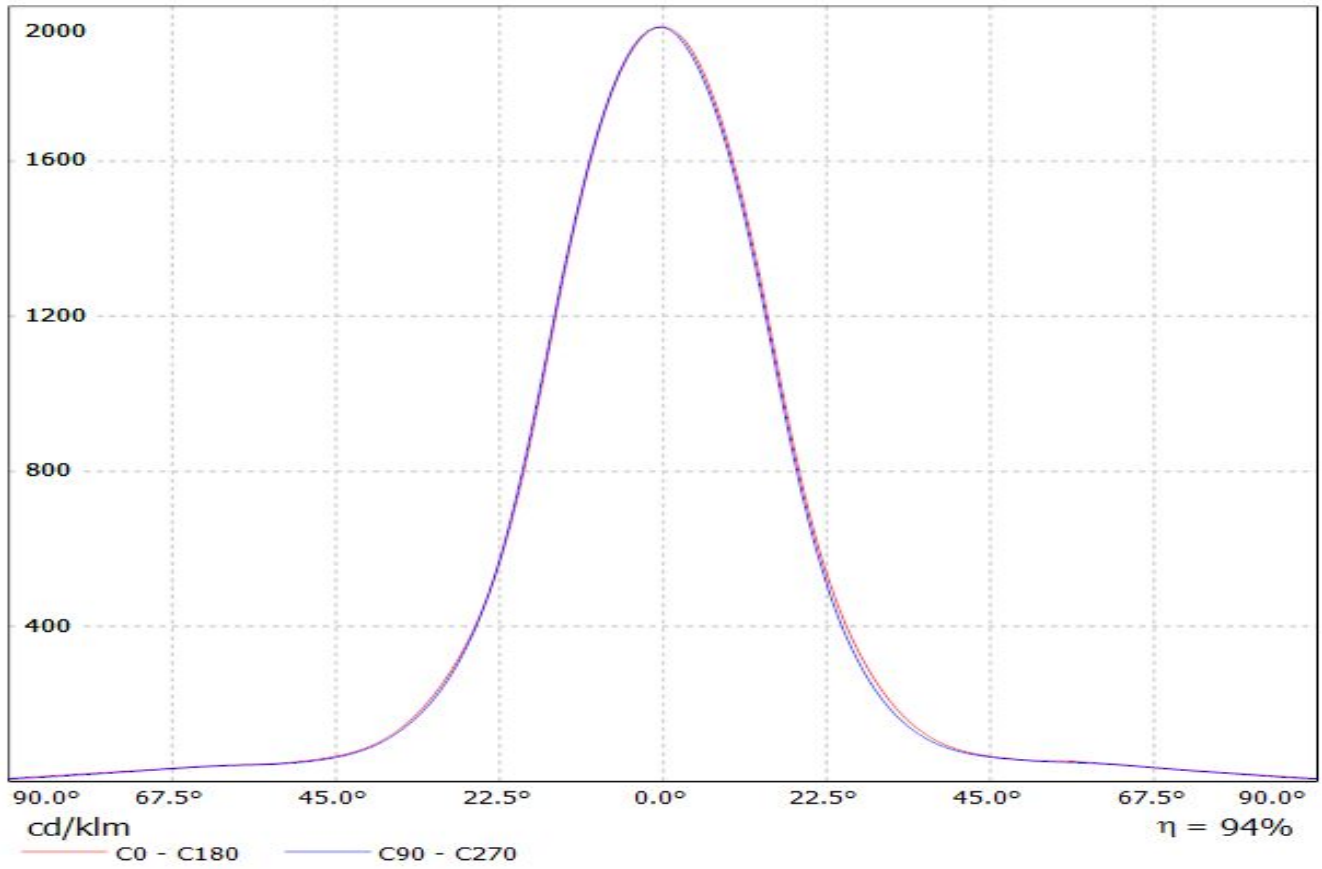
Luminaire: Ledil C14607_HB-2X2-M_(Luxeon_MZ)

Lamps: 1 x Philips_Lumileds_Luxeon_MZ_(LMZ7-QW57)_(2x2)_428.395lm@250mA_P=2.73175W_I=0.2500A



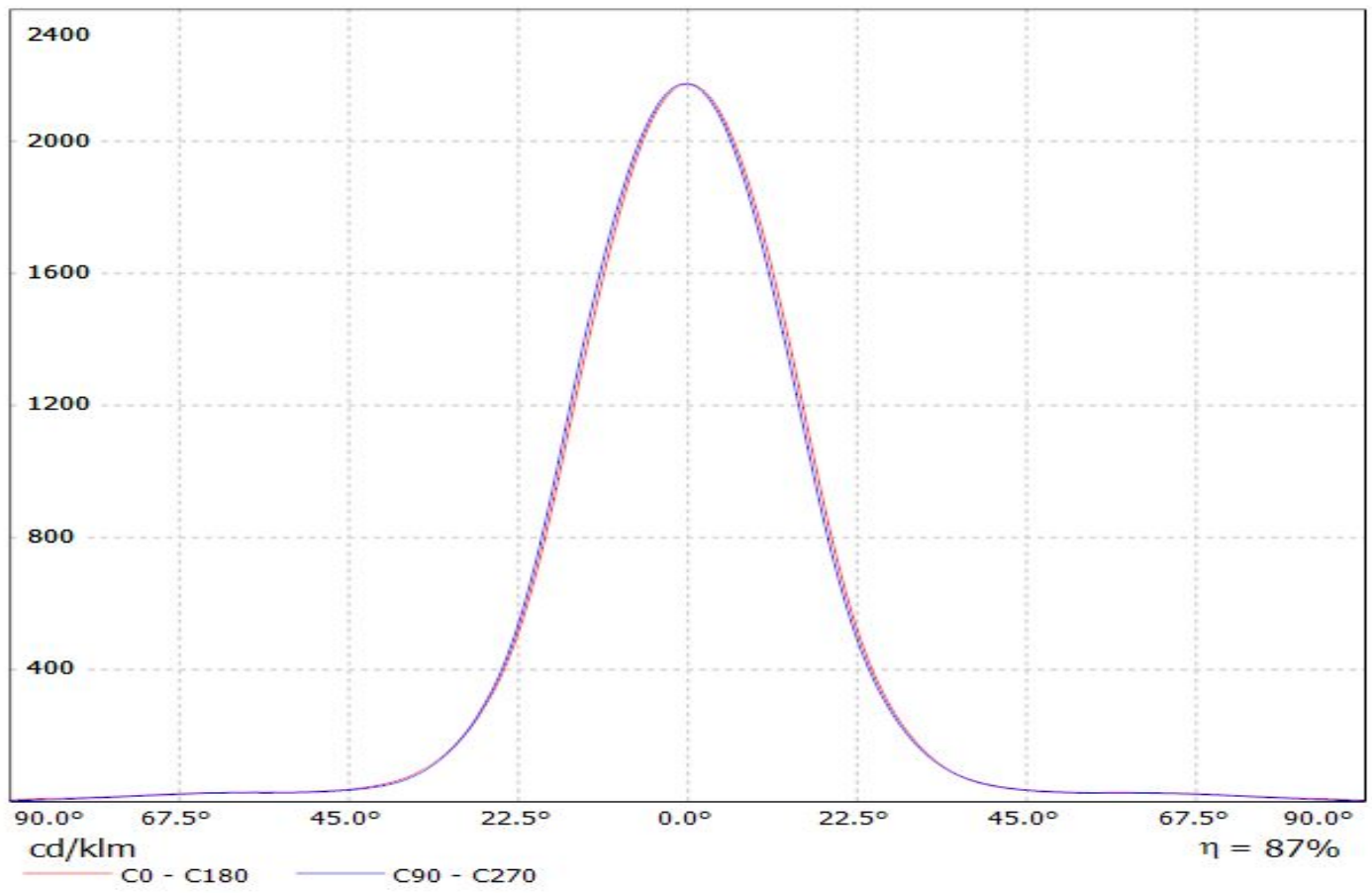
Luminaire: LEDiL Oy C14607_HB-2X2-M (Luxeon_5050)

Lamps: 1 x Luxeon_5050_2x2_1270.76lm@80mA_CCT=5700K_P=7.35815W_I=0.080A_70CRI



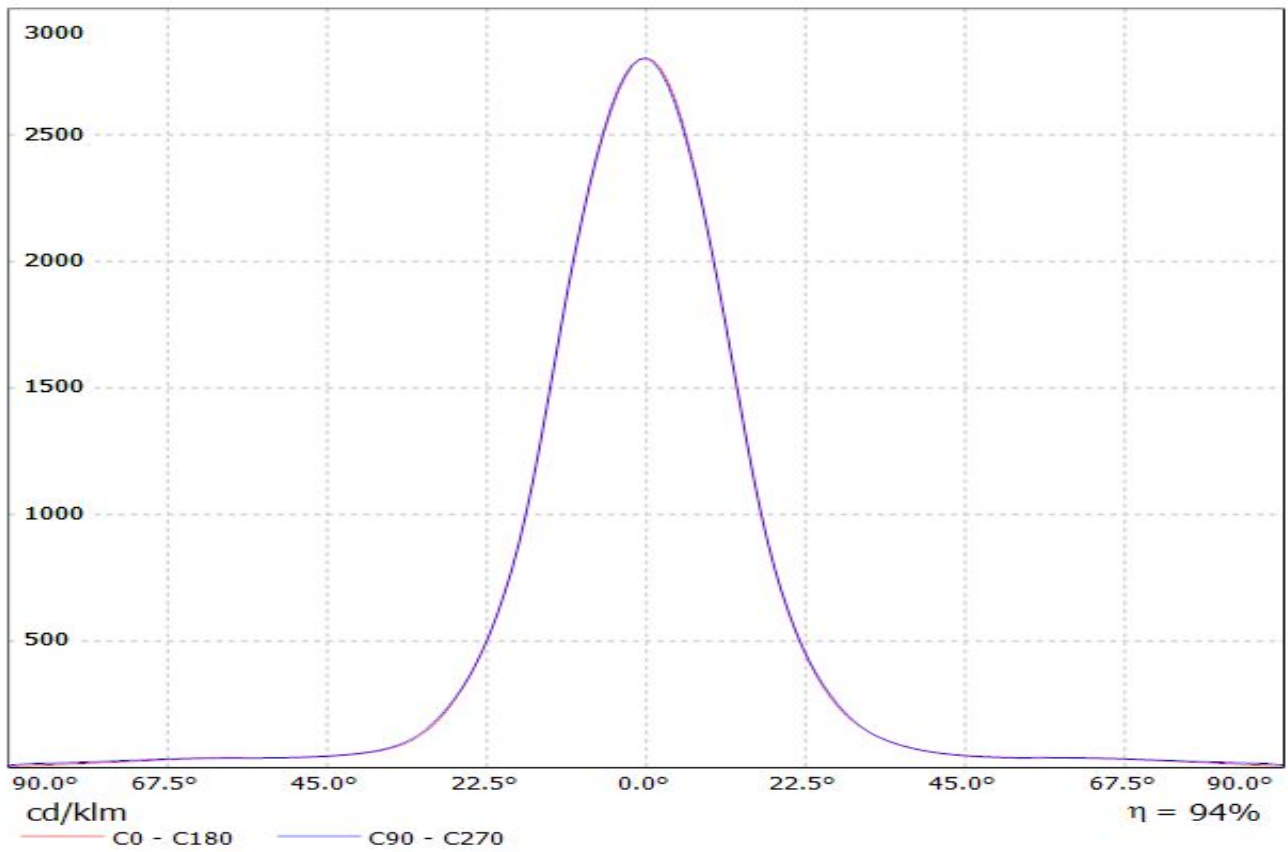
Luminaire: LEDiL Oy C14607_HB-2X2-M_(NWSL229AE)

Lamps: 1 x Nichia_2X2_NWSL229AE_476.548lm@250mA_P=2.7515W_I=0.250A



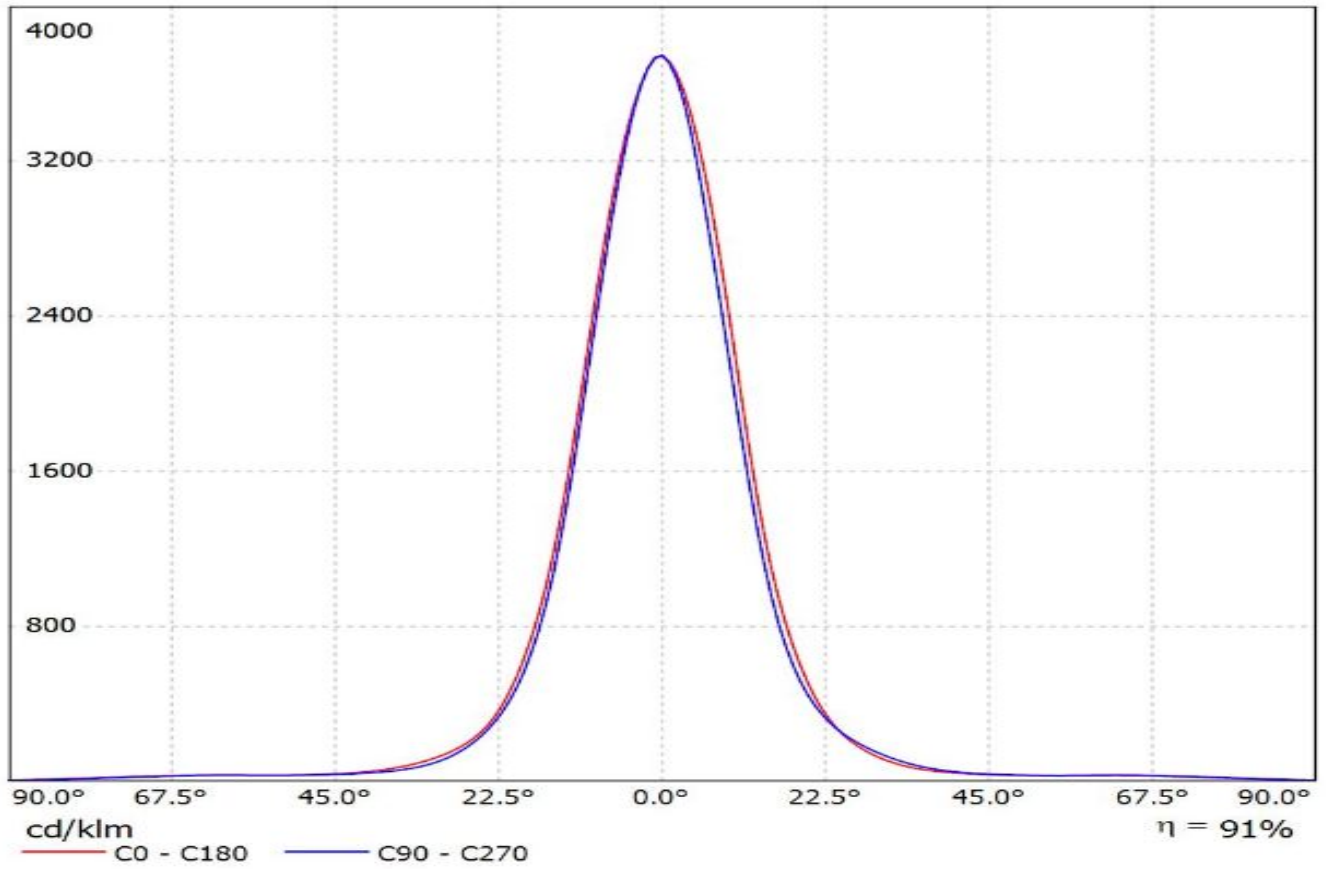
Luminaire: LEDiL Oy C14607_HB-2X2-M_(NVSW319AE)

Lamps: 1 x Nichia_NVSW319AE_(sm405D440f2L2R70)_500.359lm@250mA_P=2.79351W_I=0.25A



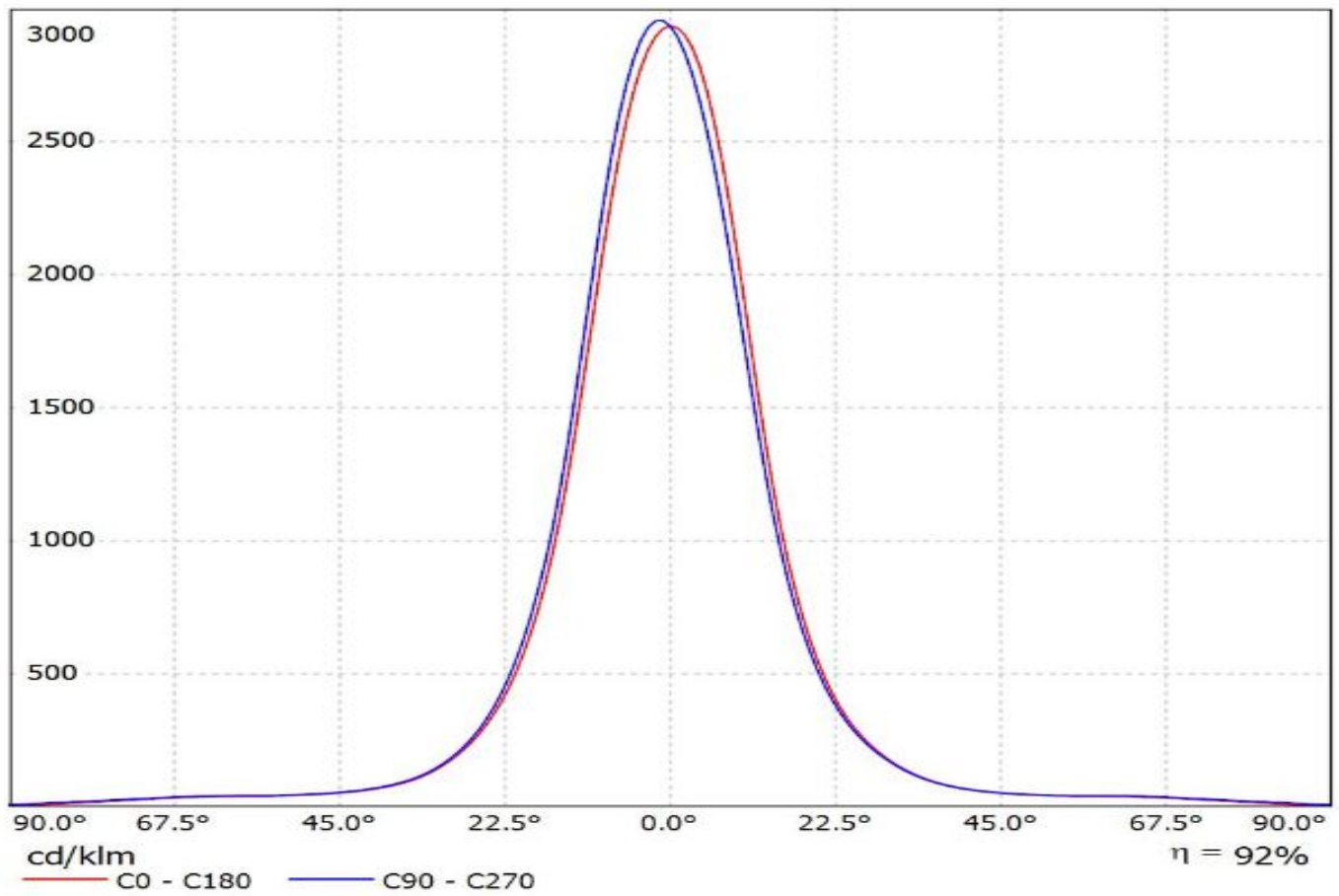
Luminaire: Ledil C14607_HB-2X2-M (Square_Gen3)

Lamps: 1 x Osram_Square_Gen3_(GW_CSSRM2.PM)_461.082lm@250mA_P=2.79075W_I=0.250A



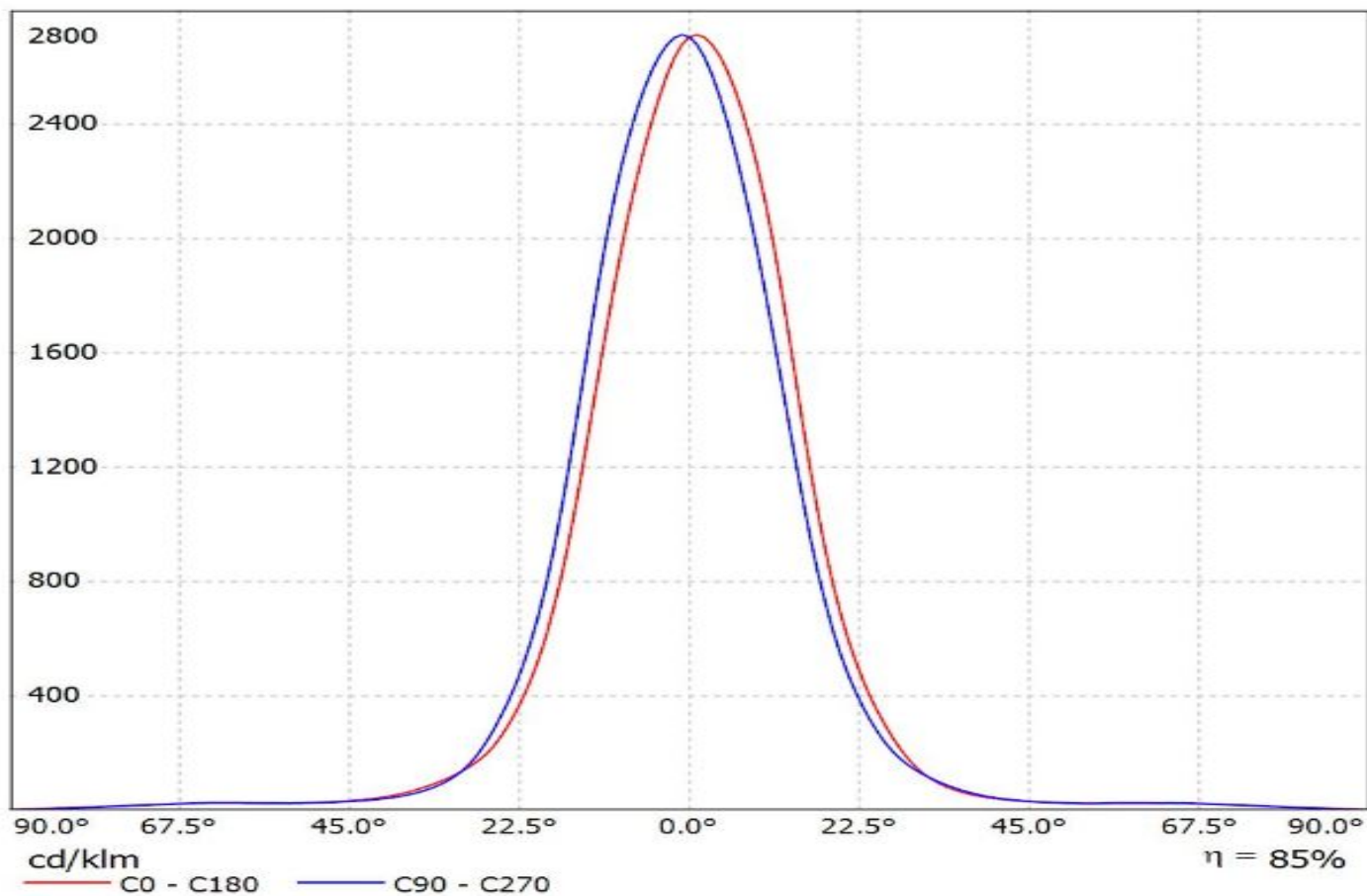
Luminaire: Ledil C14607_HB-2X2-M_(Fortimo_FastFlex_LED_board_2x8/740_DA_G3)

Lamps: 1 x Fortimo_FastFlex_LED_board_2x8/740_DA_G3_1823.98lm@250mA_P=11.65W_I=0.25A

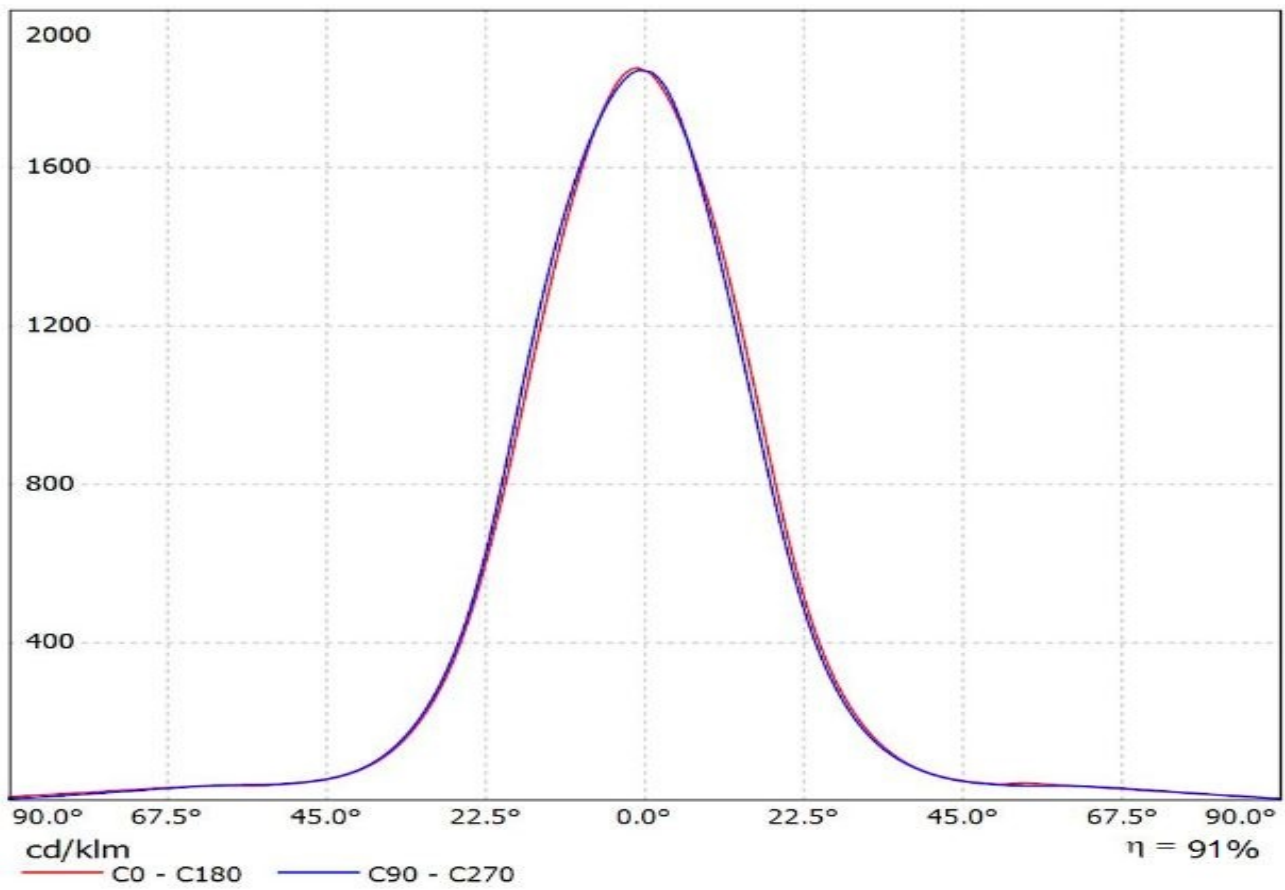


Luminaire: Ledil C14607_HB-2X2-M_(LH351B)

Lamps: 1 x Samsung_LH351B_2x2_444.178lm@250mA_P=2.8535W_I=0.25A

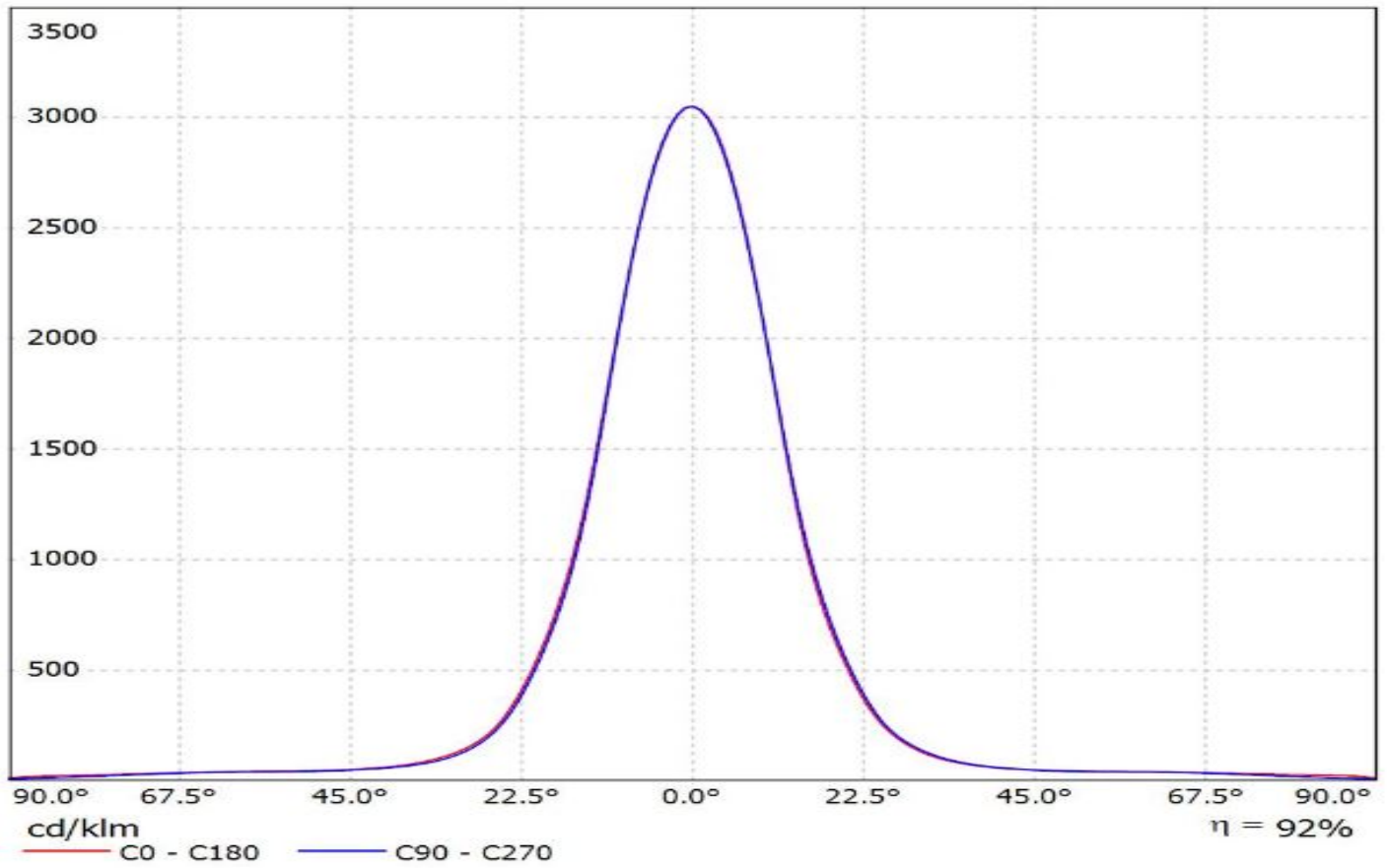


Luminaire: Ledil C14607_HB-2X2-M_(LH351D)
Lamps: 1 x Samsung_LH351D_536.957lm@250mA_P=2.7695W_I=0.250A

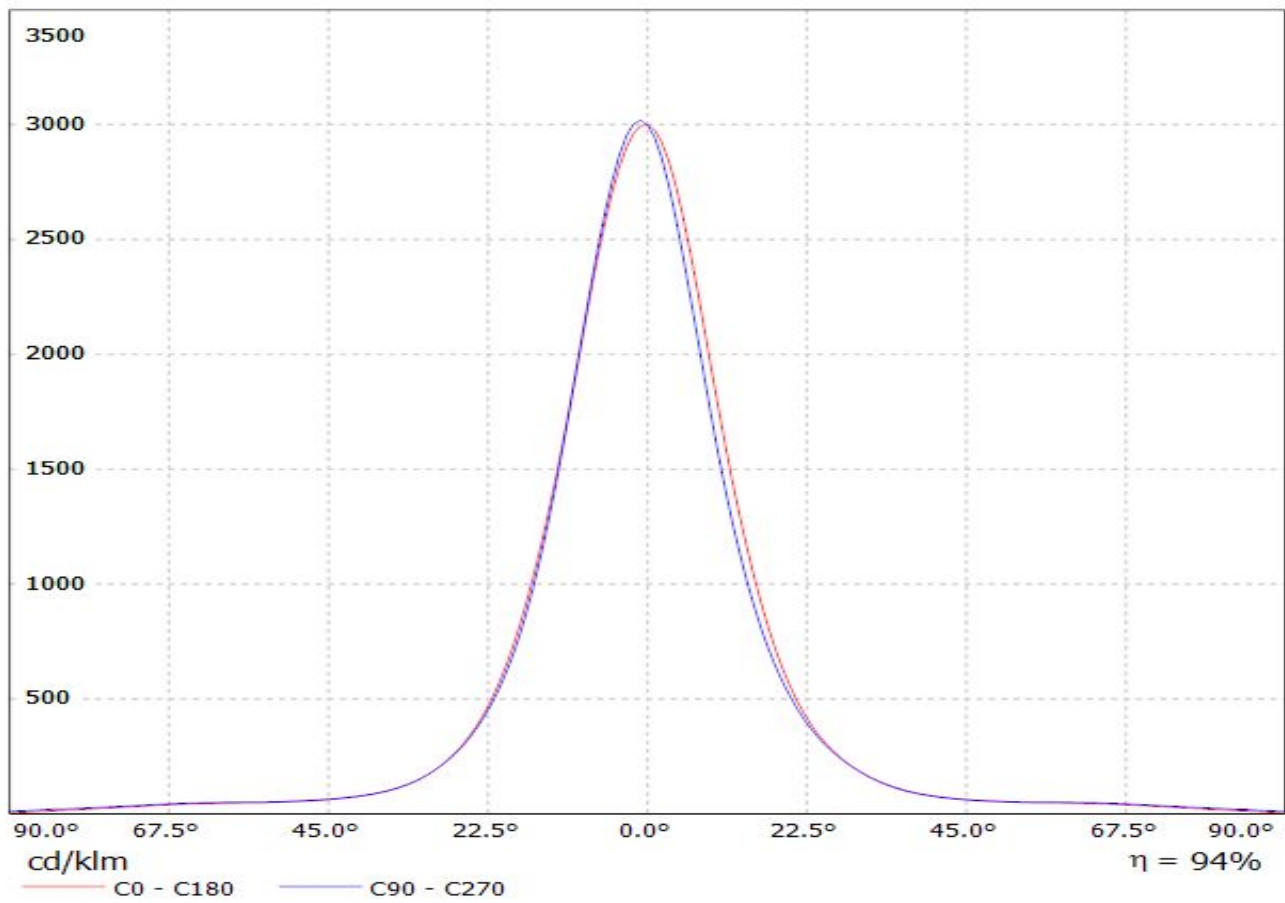


Luminaire: Ledil C14607_HB-2X2-M_(Z8Y22plus)

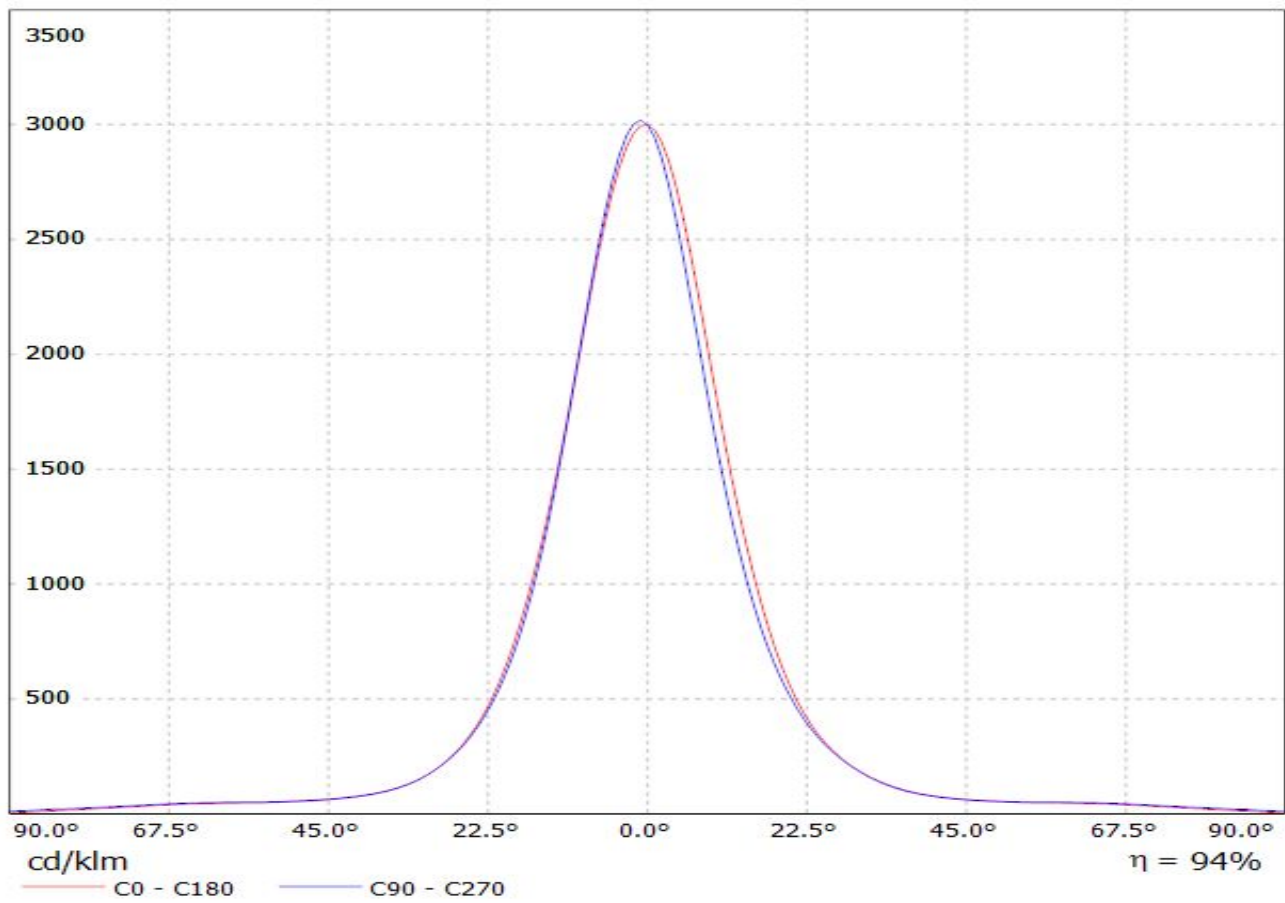
Lamps: 1 x Seoul_Z8Y22plus_(W6E2G)_513.996lm@250mA_P=2.754W_I=0.250A



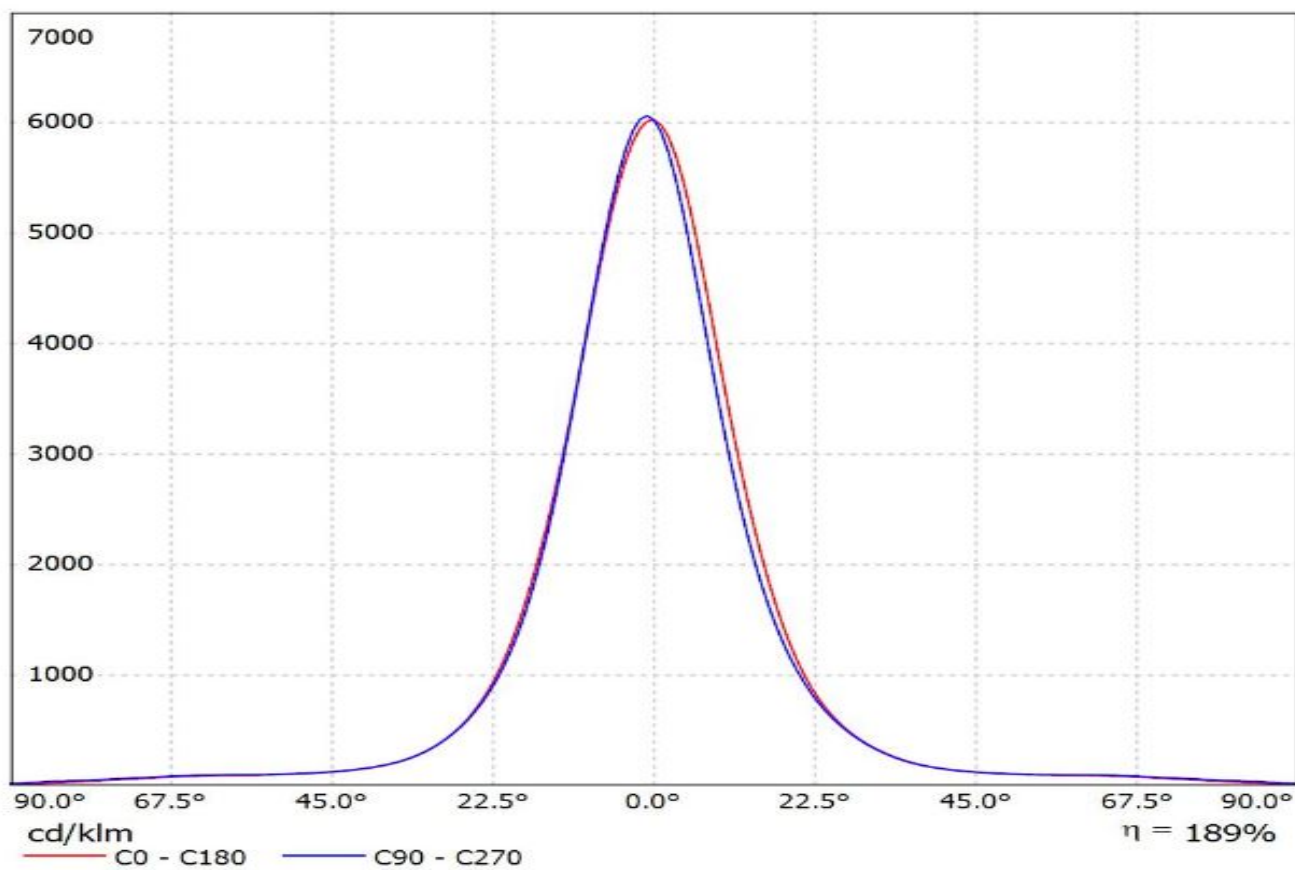
Luminaire: LEDiL Oy C14607_HB-2X2-M_(Tridonic_Module_RLE_G1)
Lamps: 1 x Tridonic_Module_RLE_G1_4594.42lm@700mA_P=32.1515W_I=0.700A



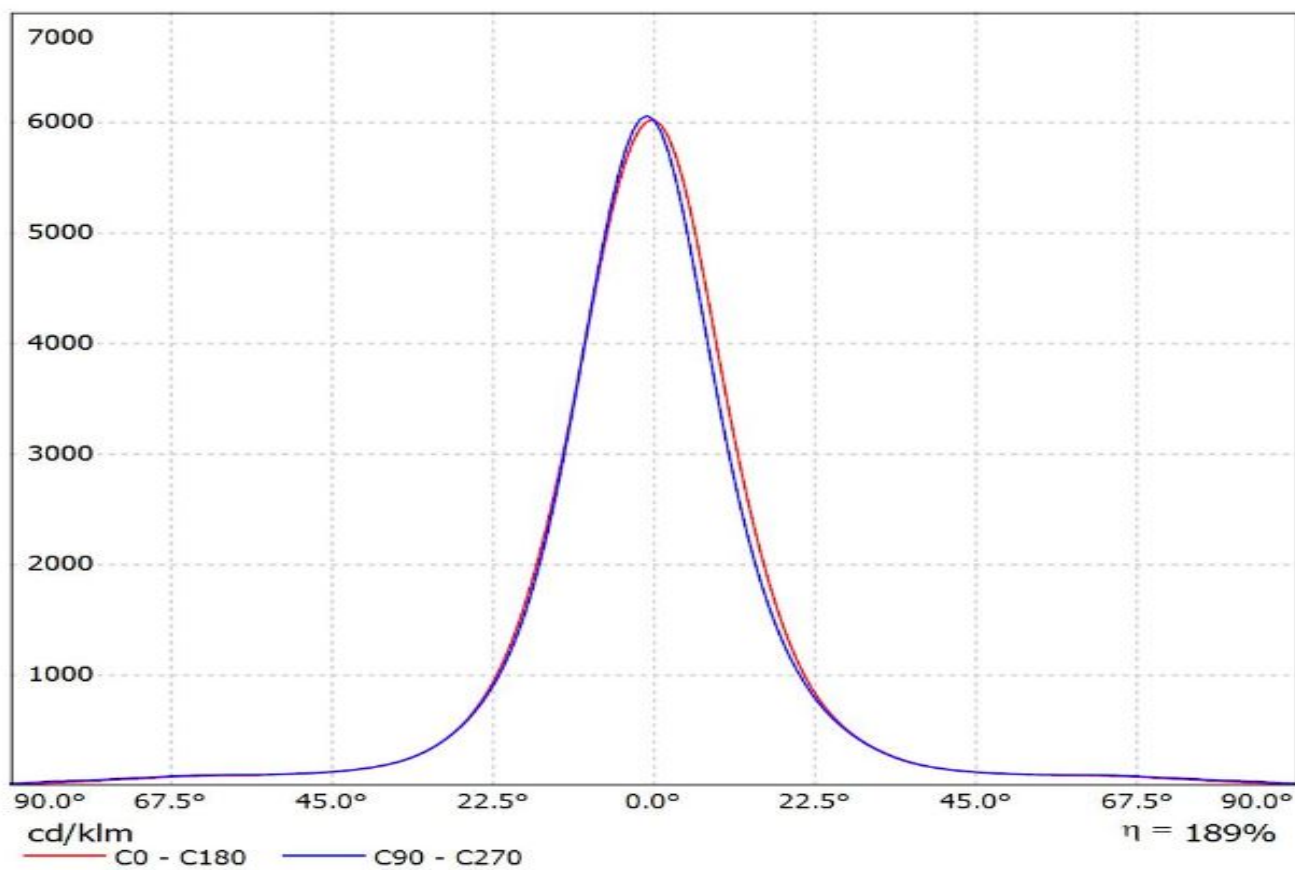
Luminaire: LEDiL Oy C14607_HB-2X2-M_(Tridonic_Module_RLE_G1)
Lamps: 1 x Tridonic_Module_RLE_G1_4594.42lm@700mA_P=32.1515W_I=0.700A



Luminaire: LEDiL Oy C14607_HB-2X2-M (Tridonic Module_RLE_G1
Lamps: 1 x Tridonic Module_RLE_G1_2288lm@700mA_P=16W_I=0.700A

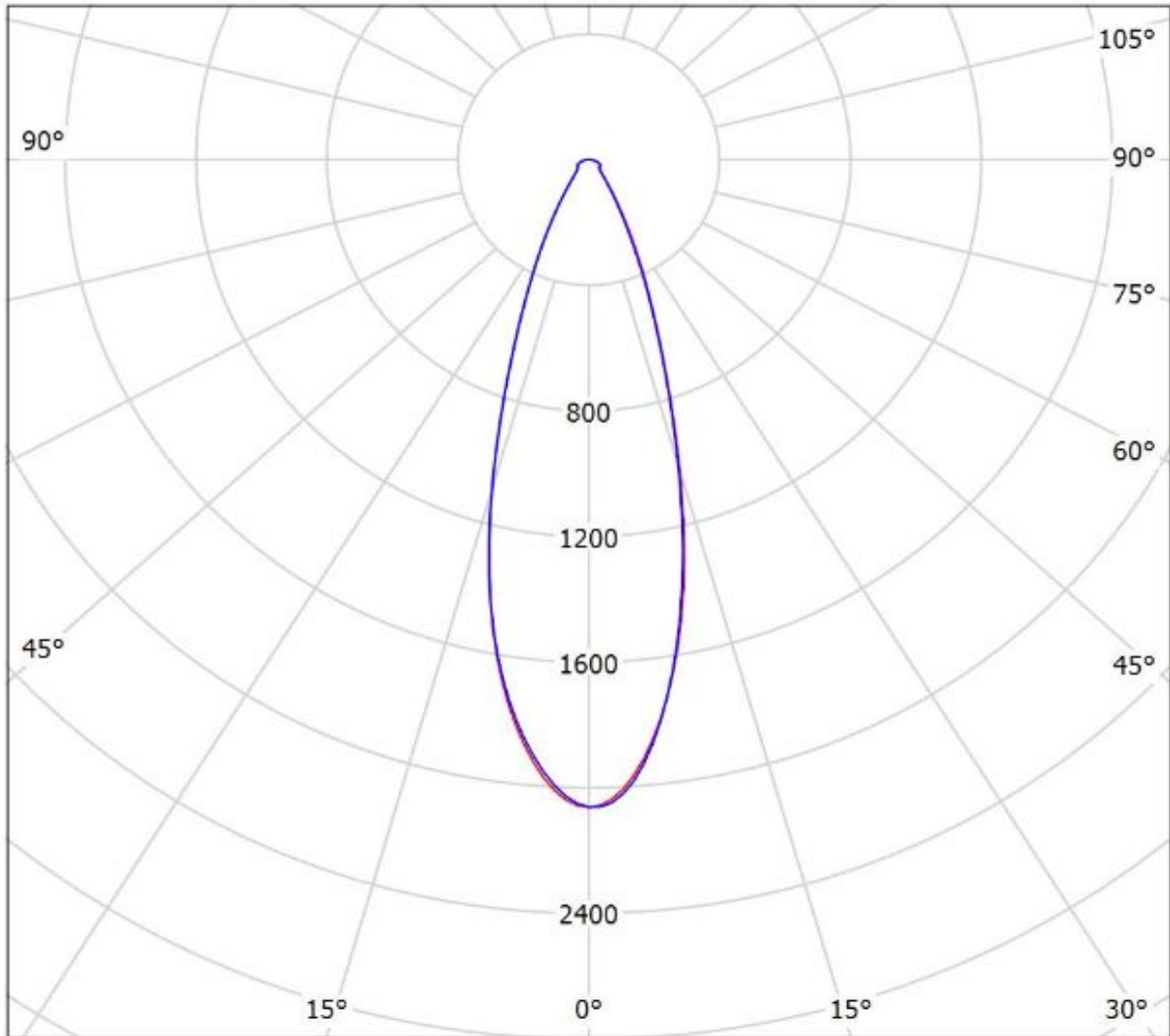


Luminaire: LEDiL Oy C14607_HB-2X2-M (Tridonic Module_RLE_G1
Lamps: 1 x Tridonic Module_RLE_G1_2288lm@700mA_P=16W_I=0.700A



Luminaire: LEDiL Oy C14607_HB-2X2-M_(XM-L)

Lamps: 1 x Cree_XM-L_2x2_(XMLAWT-00-0000-000LT20E7)_334.631lm@250mA_P=2.75215W_η=0.2499A



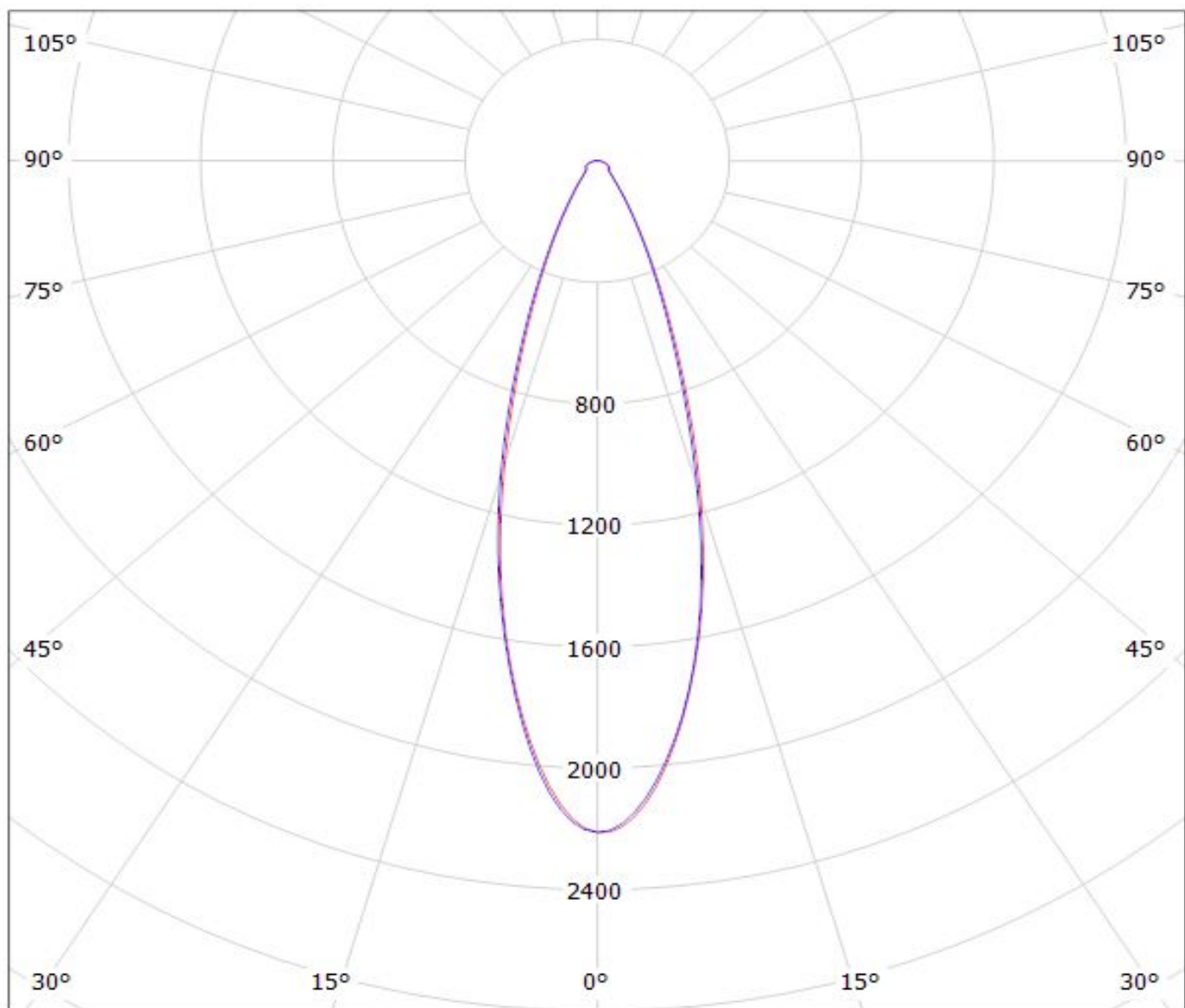
cd/klm

— C0 - C180 — C90 - C270

η = 93%

Luminaire: LEDiL Oy C14607_HB-2X2-M_(XP-L)

Lamps: 1 x Cree_XP-L_(XPLAWT-1B0-V40-00-0001)_496.74lm@250mA_P=2.80138W_I=0.2499A



cd/klm

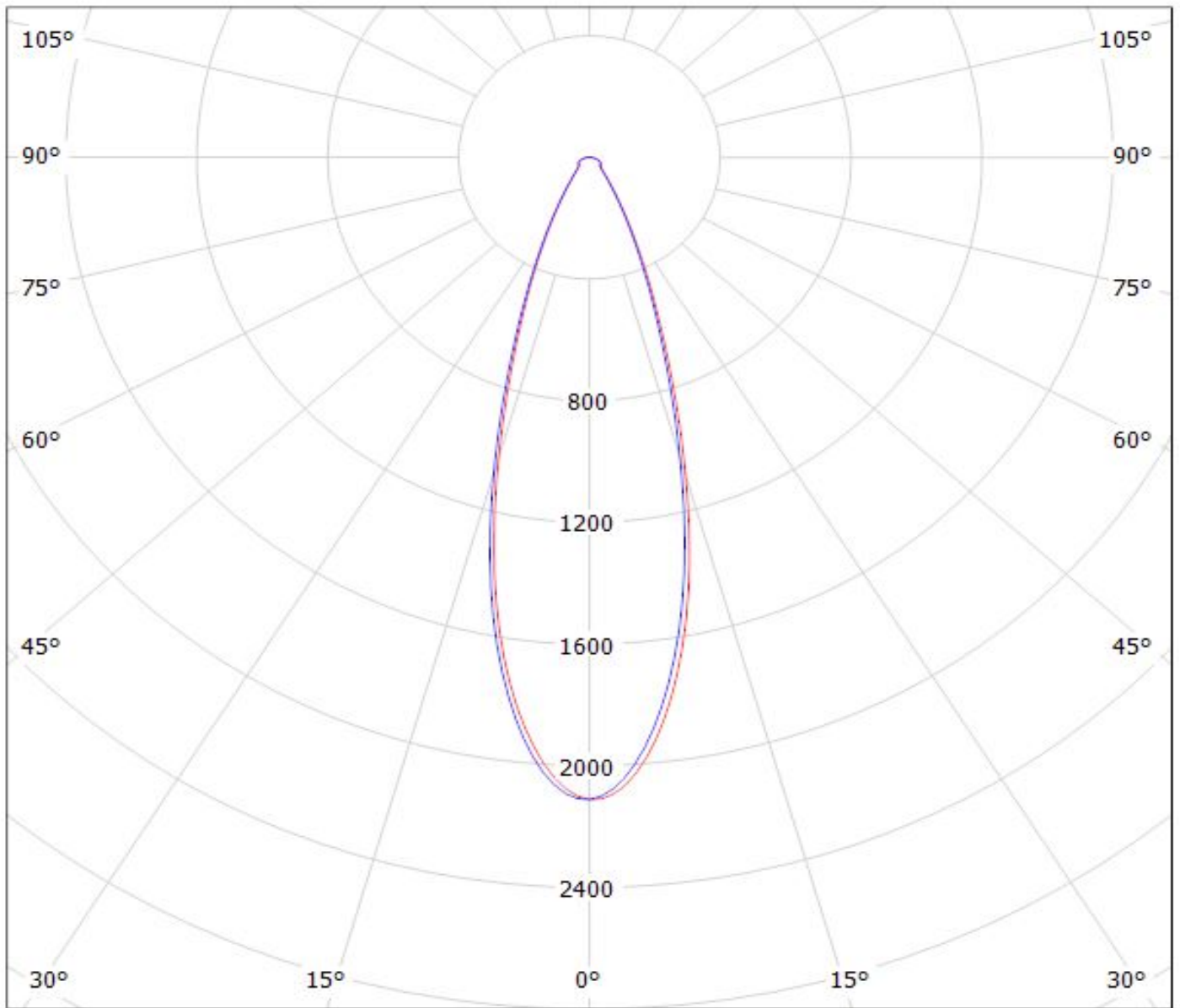
— C0 - C180

— C90 - C270

$\eta = 94\%$

Luminaire: LEDiL Oy C14607_HB-2X2-M_(XM-L2)

Lamps: 1 x Cree_XM-L2_2X2_(XMLBWT-0-7B4-0L-0001)_354.093lm@250mA_P=2.81687W_I=0.2499A



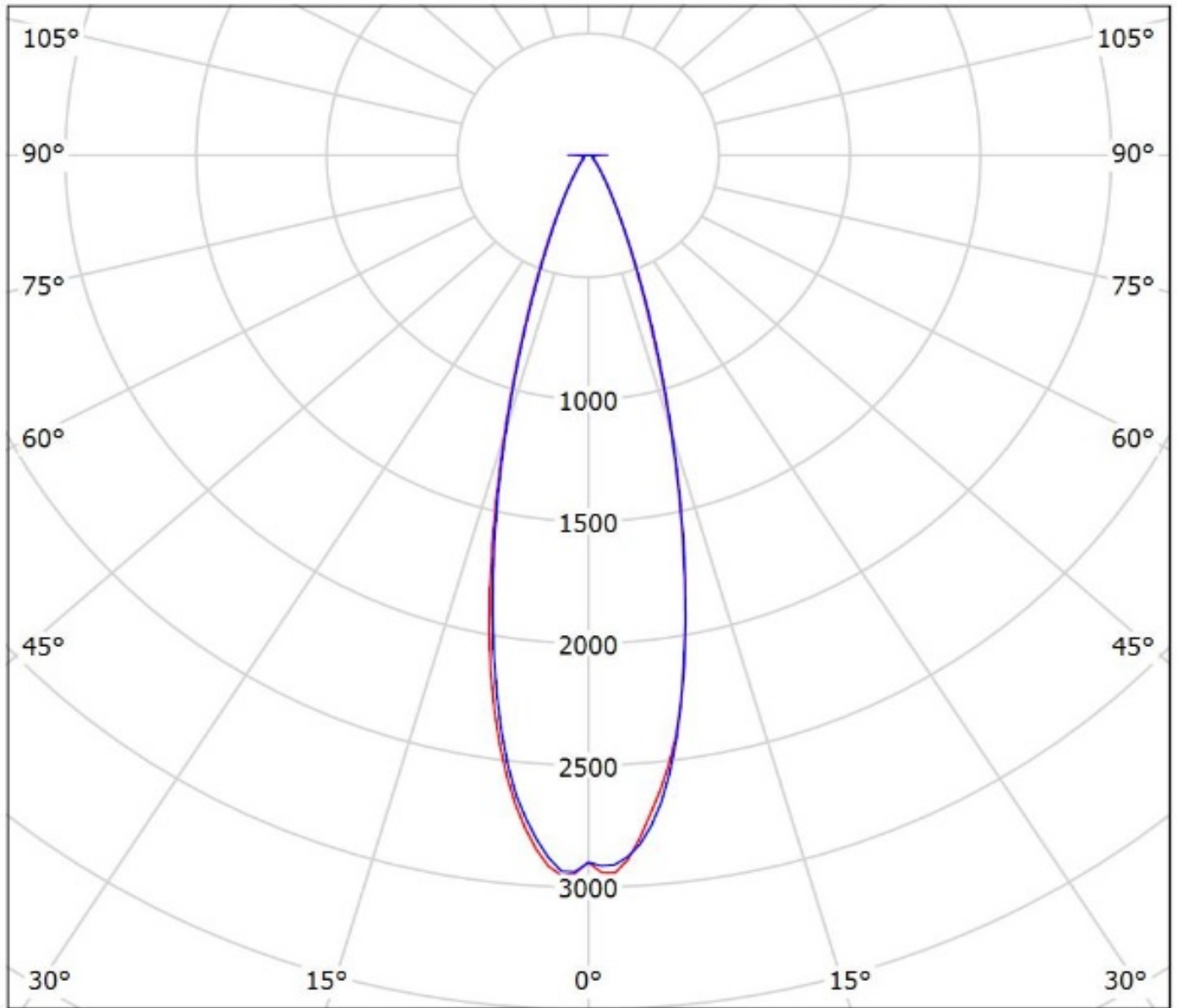
cd/klm

$\eta = 92\%$

— C0 - C180

— C90 - C270

Luminaire: Ledil Oy C14607_HB-2X2-M_(XP-G3)_SIMULATED
Lamps: 1 x Cree XP-G3



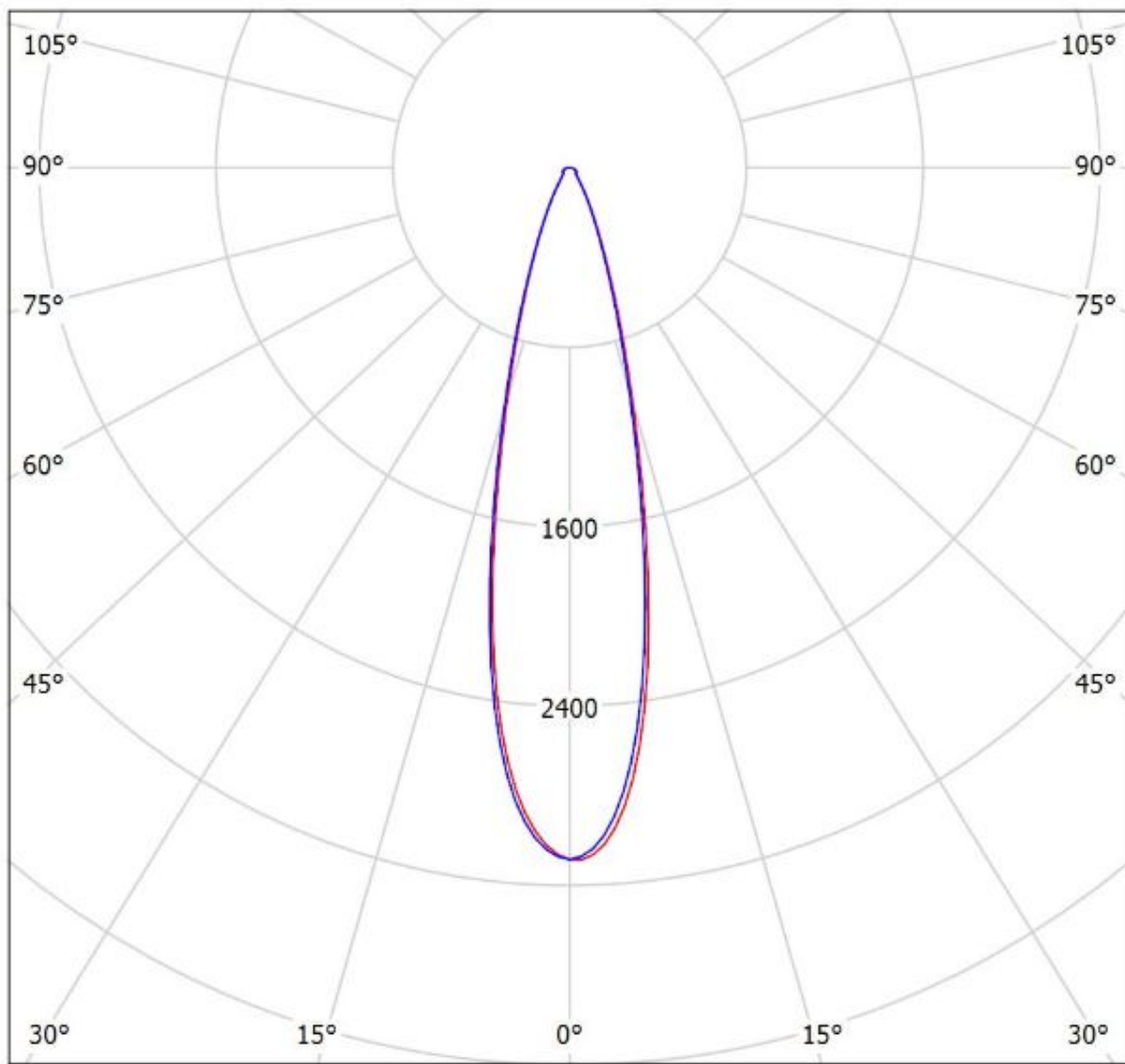
cd/klm

— C0 - C180 — C90 - C270

$\eta = 92\%$

Luminaire: Ledil C14607_HB-2X2-M (XP-G2)

Lamps: 1 x Cree_XP-G2_2x2 (XPGBWT-L1-000-00-G51)_421.786lm@250mA_P=2.9665W_I=0.250A



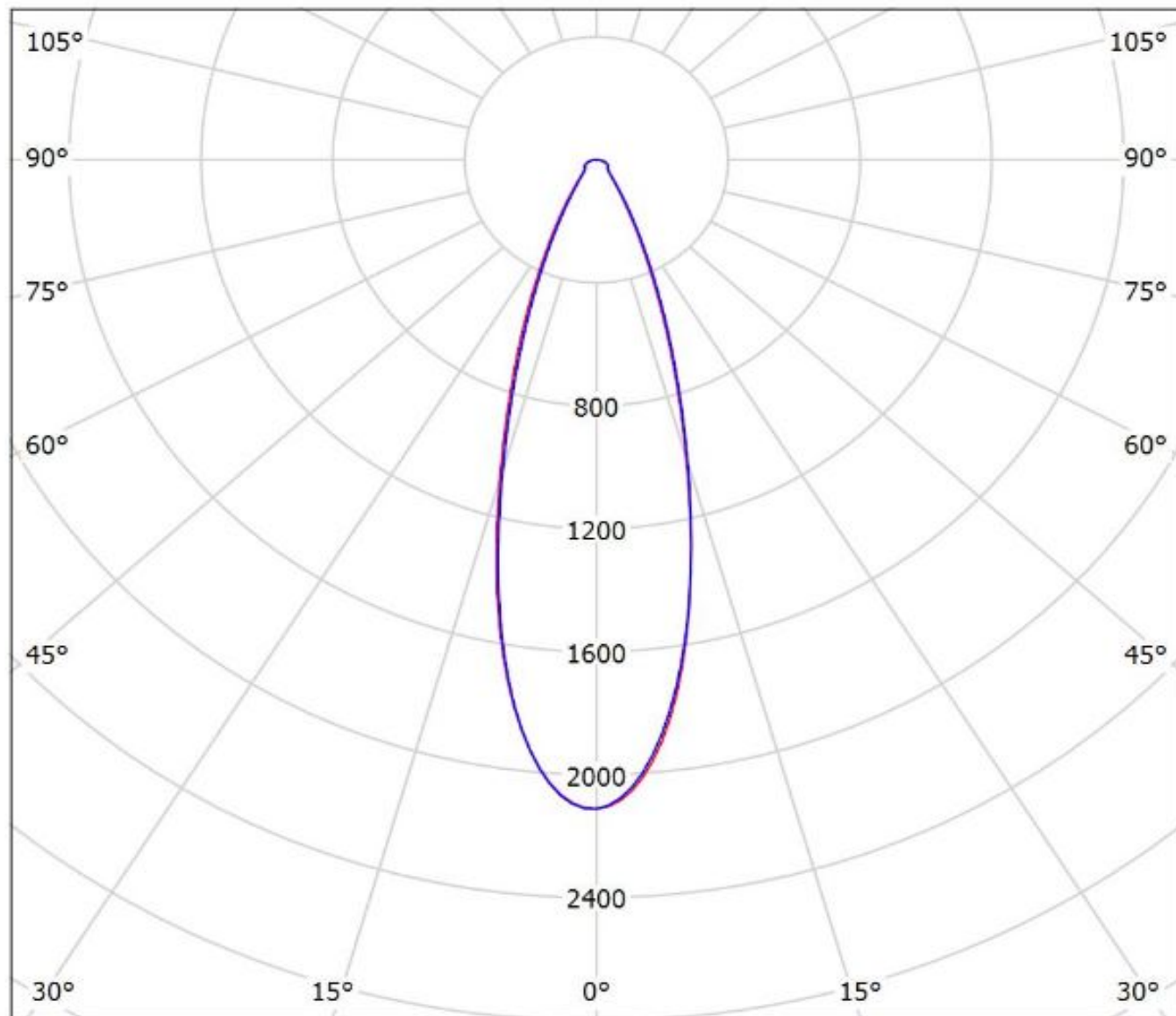
cd/klm

— C0 - C180 — C90 - C270

$\eta = 90\%$

Luminaire: Ledil C14607_HB-2X2-M_(XP-L2)

Lamps: 1 x Cree_XP-L2_2x2_(XPLBWT-00-0000-000BV50E3)550.93lm@250mA_P=2.7815W_I=0.25A



cd/klm

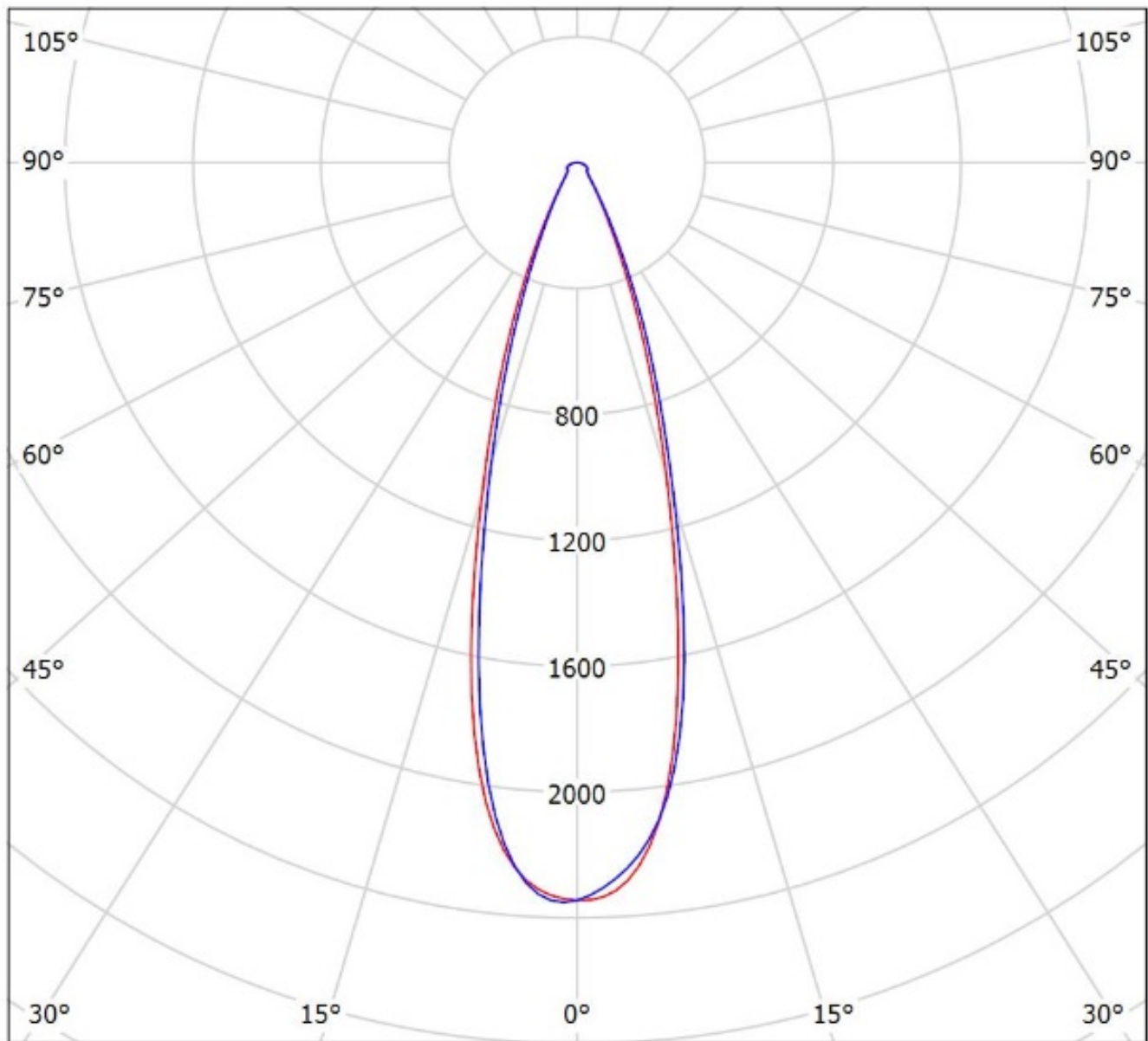
— C0 - C180

— C90 - C270

$\eta = 93\%$

Luminaire: Ledil C14607_HB-2X2-M_(Luxeon_MZ)

Lamps: 1 x Philips_Lumileds_Luxeon_MZ_(LMZ7-QW57)_(2x2)_428.395lm@250mA_P=2.73175W_I=0.2500A



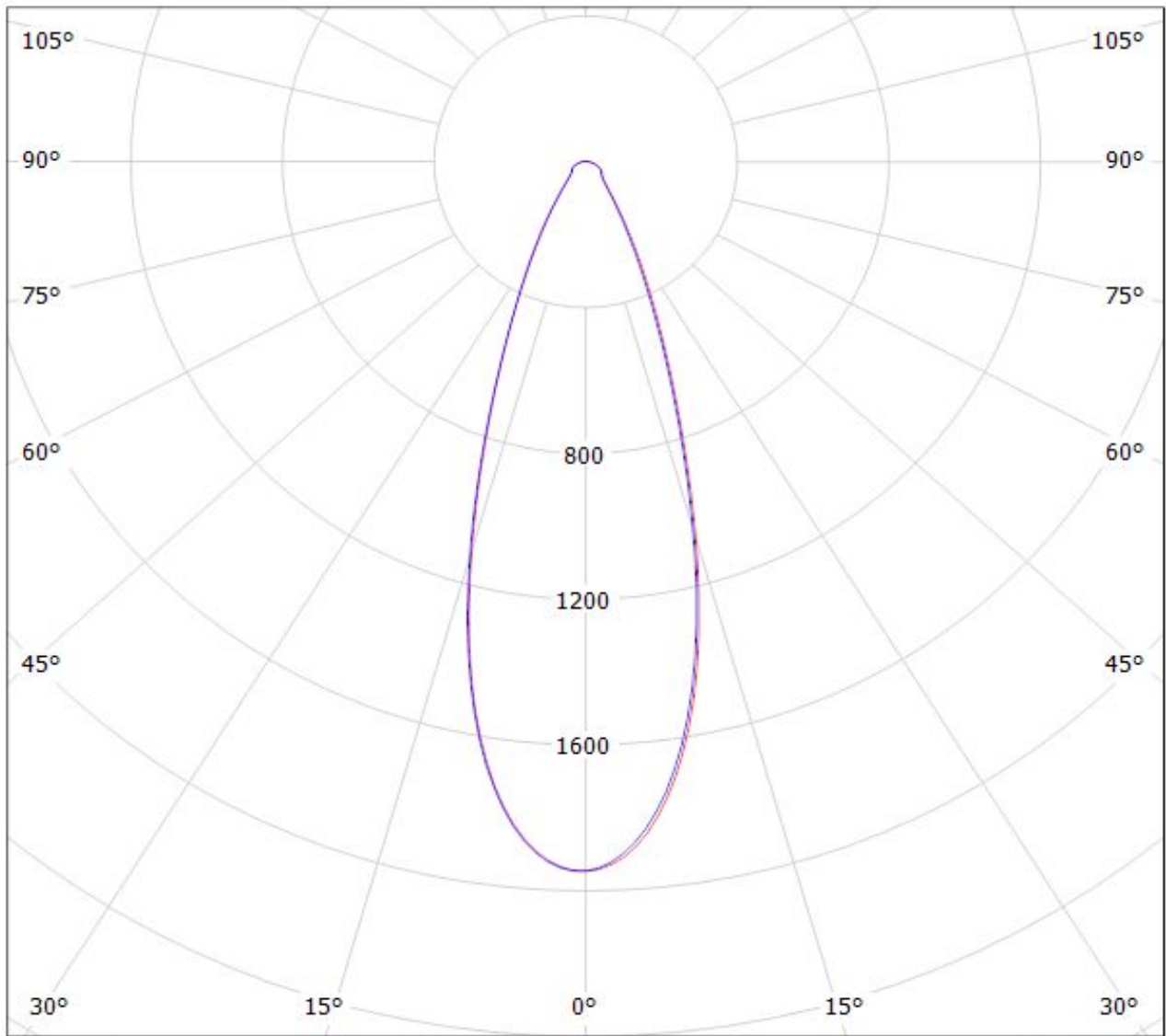
cd/klm

— C0 - C180 — C90 - C270

$\eta = 91\%$

Luminaire: LEDiL Oy C14607_HB-2X2-M_(Luxeon_5050)

Lamps: 1 x Luxeon_5050_2x2_1270.76lm@80mA_CCT=5700K_P=7.35815W_I=0.080A_70CRI



cd/klm

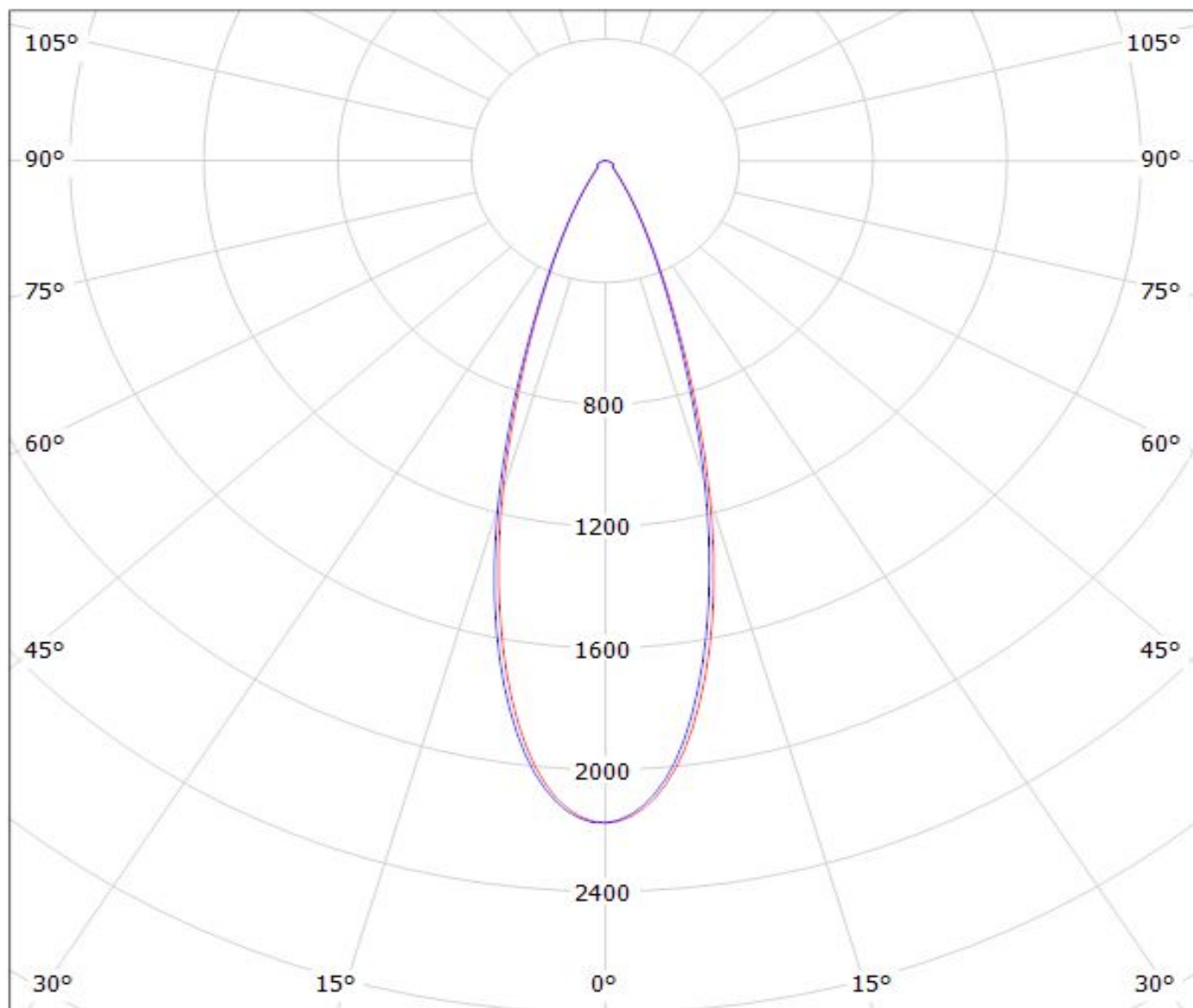
— C0 - C180

— C90 - C270

$\eta = 94\%$

Luminaire: LEDiL Oy C14607_HB-2X2-M_(NWSL229AE)

Lamps: 1 x Nichia_2X2_NWSL229AE_476.548lm@250mA_P=2.7515W_I=0.250A



cd/klm

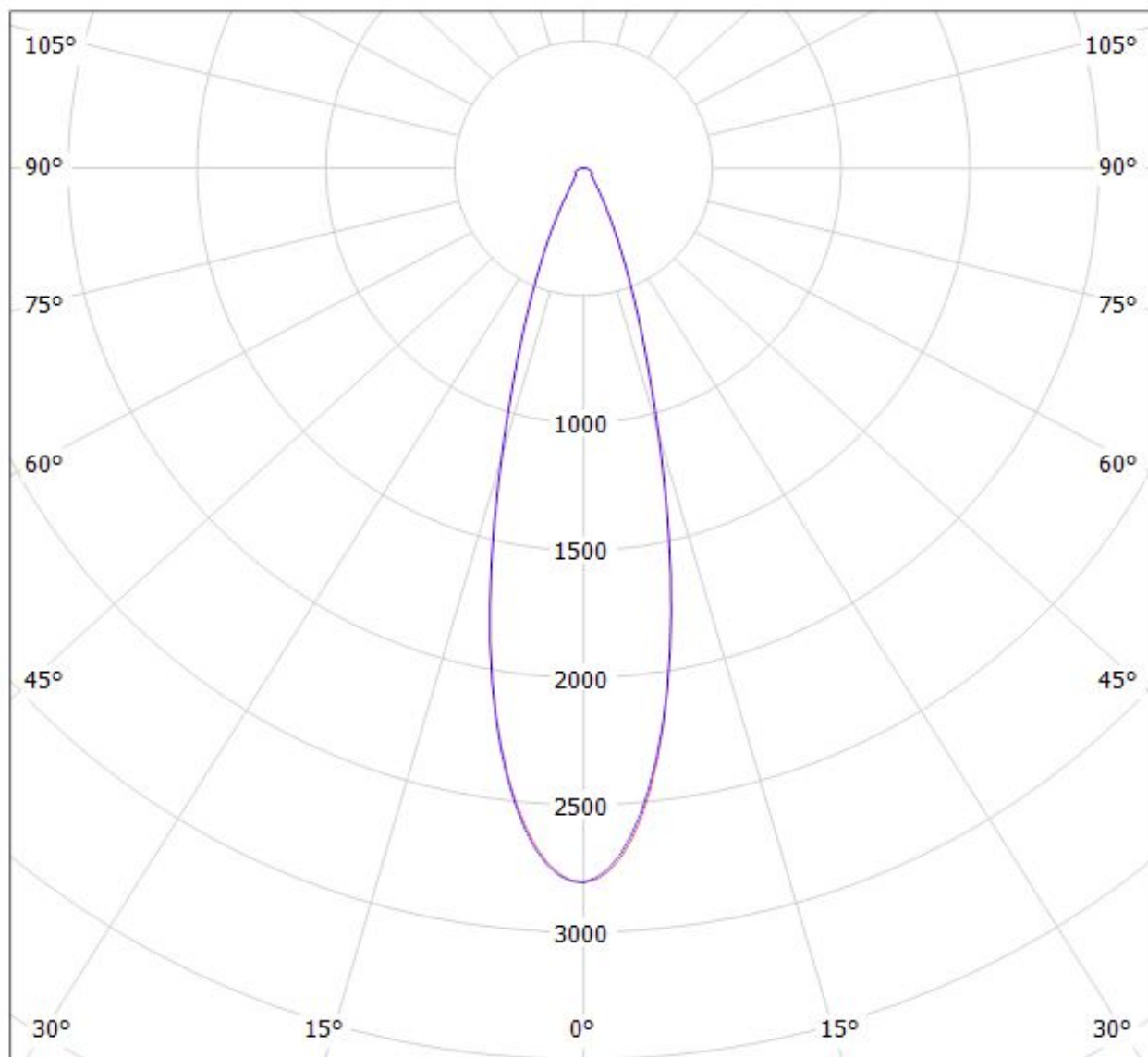
— C0 - C180

— C90 - C270

$\eta = 87\%$

Luminaire: LEDiL Oy C14607_HB-2X2-M_(NVSW319AE)

Lamps: 1 x Nichia_NVSW319AE_(sm405D440f2L2R70)_500.359lm@250mA_P=2.79351W_I=0.25A



cd/klm

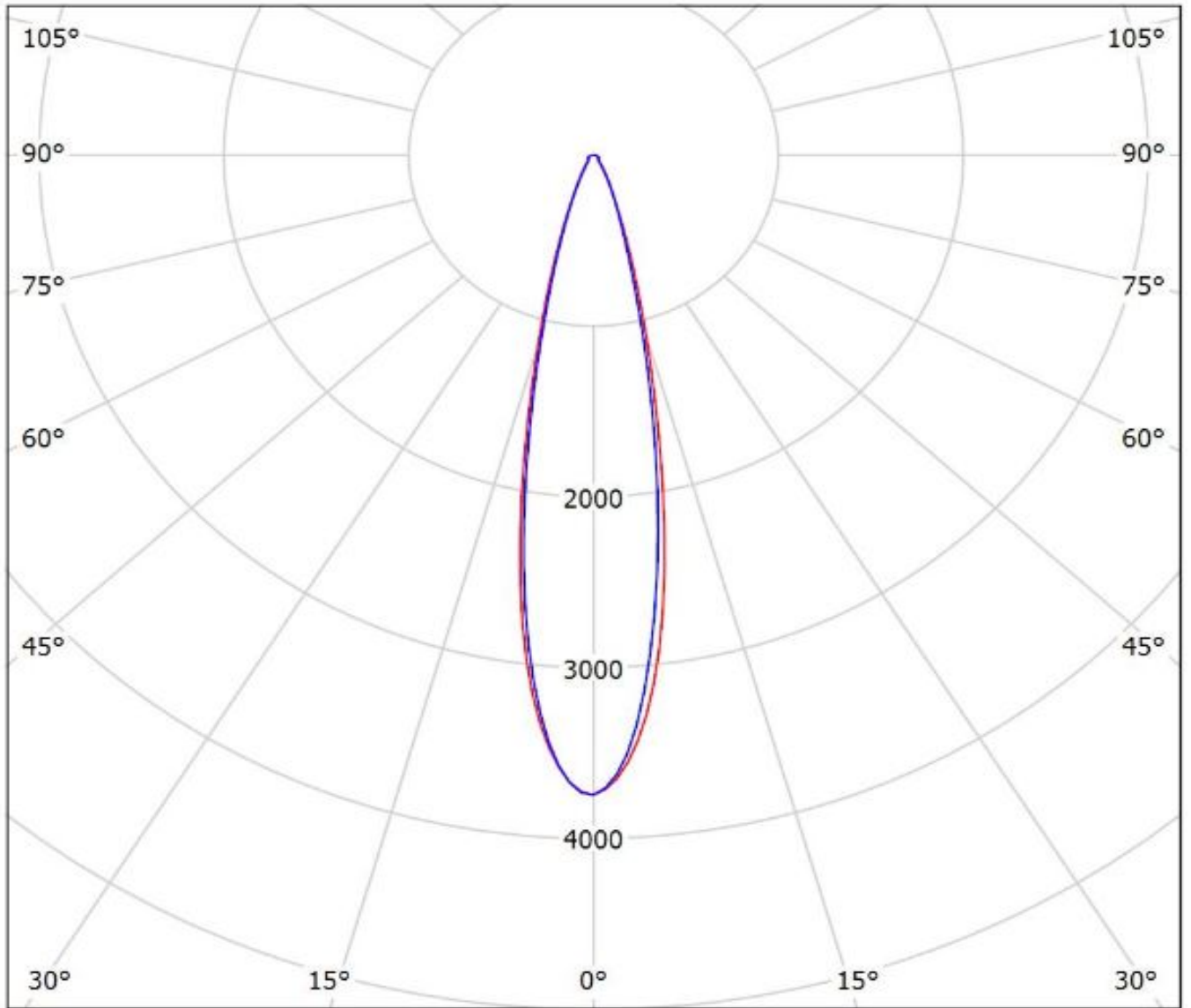
$\eta = 94\%$

— C0 - C180

— C90 - C270

Luminaire: Ledil C14607_HB-2X2-M_(Square_Gen3)

Lamps: 1 x Osram_Square_Gen3_(GW_CSSRM2.PM)_461.082lm@250mA_P=2.79075W_I=0.250A



cd/klm

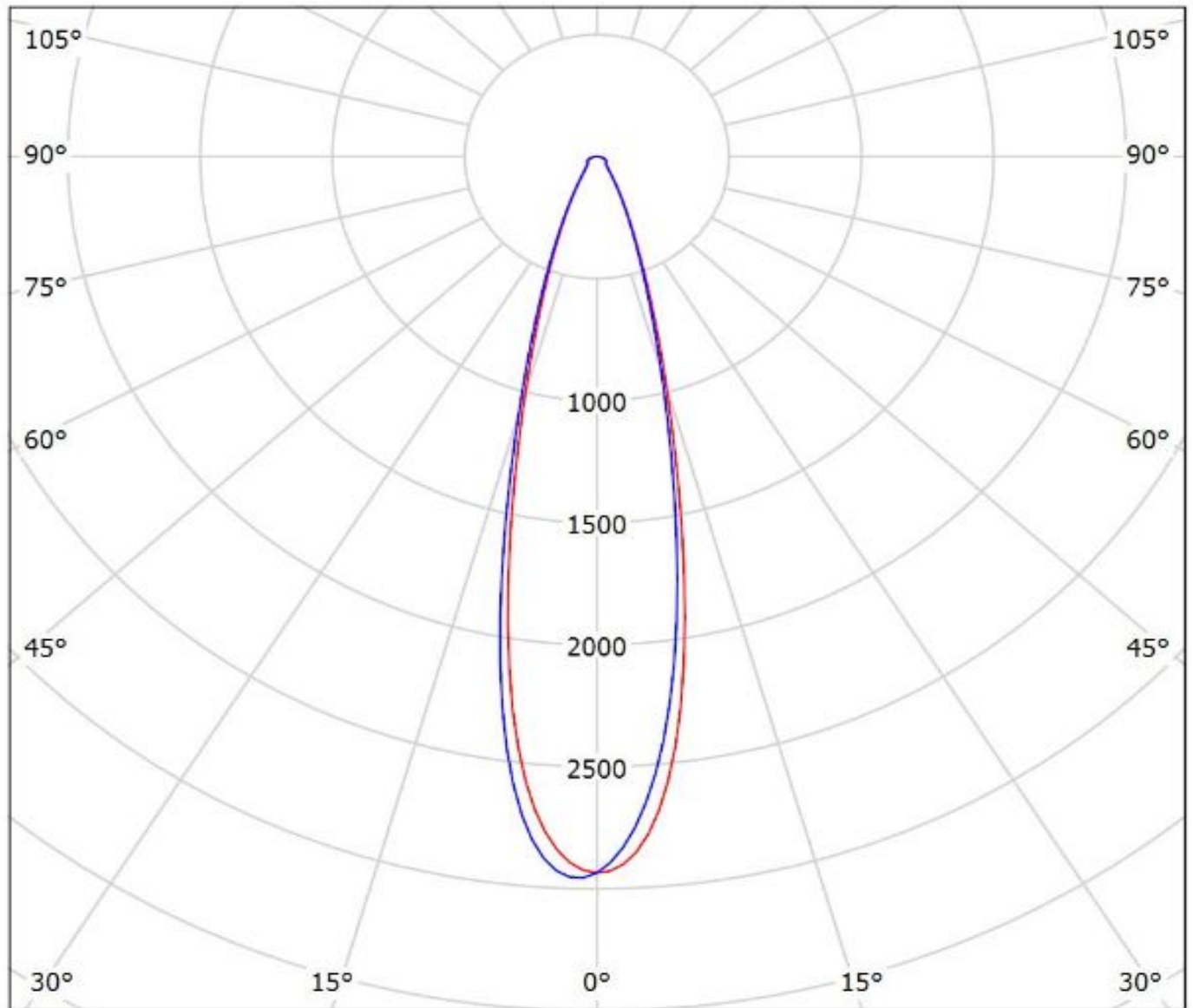
— C0 - C180

— C90 - C270

$\eta = 91\%$

Luminaire: Ledil C14607_HB-2X2-M_(Fortimo_FastFlex_LED_board_2x8/740_DA_G3)

Lamps: 1 x Fortimo_FastFlex_LED_board_2x8/740_DA_G3_1823.98lm@250mA_P=11.65W_I=0.25A



cd/klm

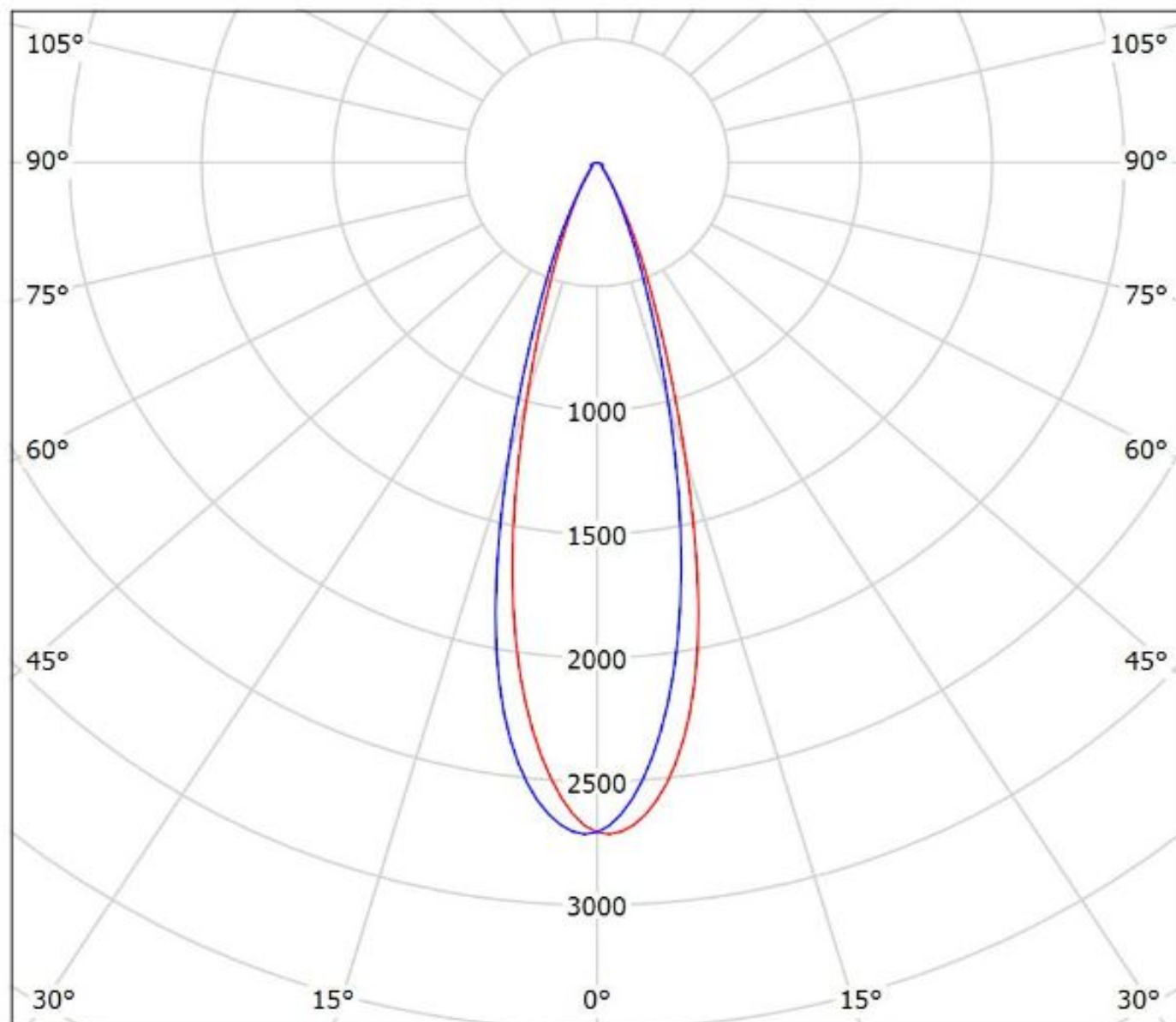
— C0 - C180

— C90 - C270

$\eta = 92\%$

Luminaire: Ledil C14607_HB-2X2-M_(LH351B)

Lamps: 1 x Samsung_LH351B_2x2_444.178lm@250mA_P=2.8535W_I=0.25A



cd/klm

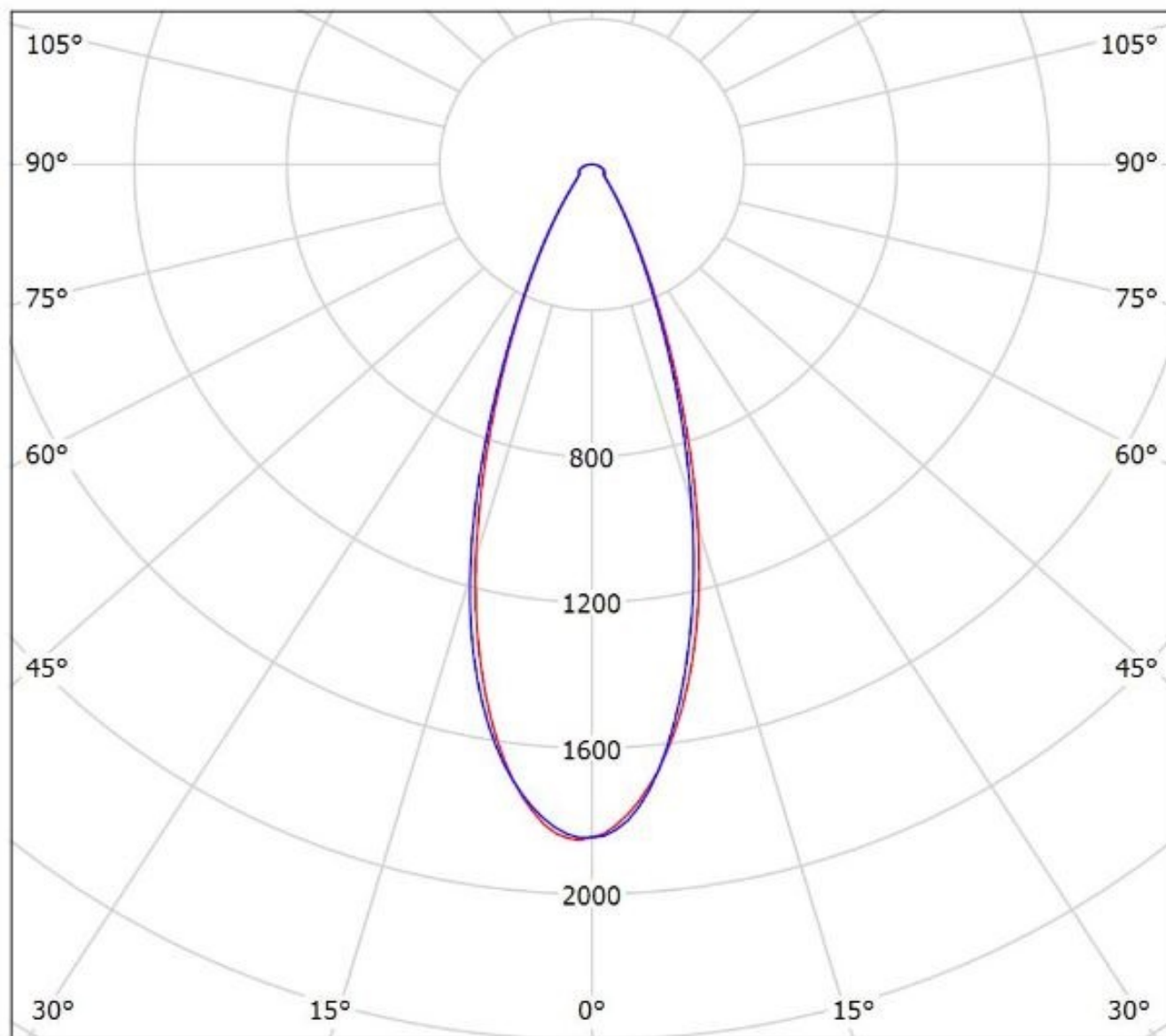
— C0 - C180

— C90 - C270

$\eta = 85\%$

Luminaire: Ledil C14607_HB-2X2-M_(LH351D)

Lamps: 1 x Samsung_LH351D_536.957lm@250mA_P=2.7695W_I=0.250A



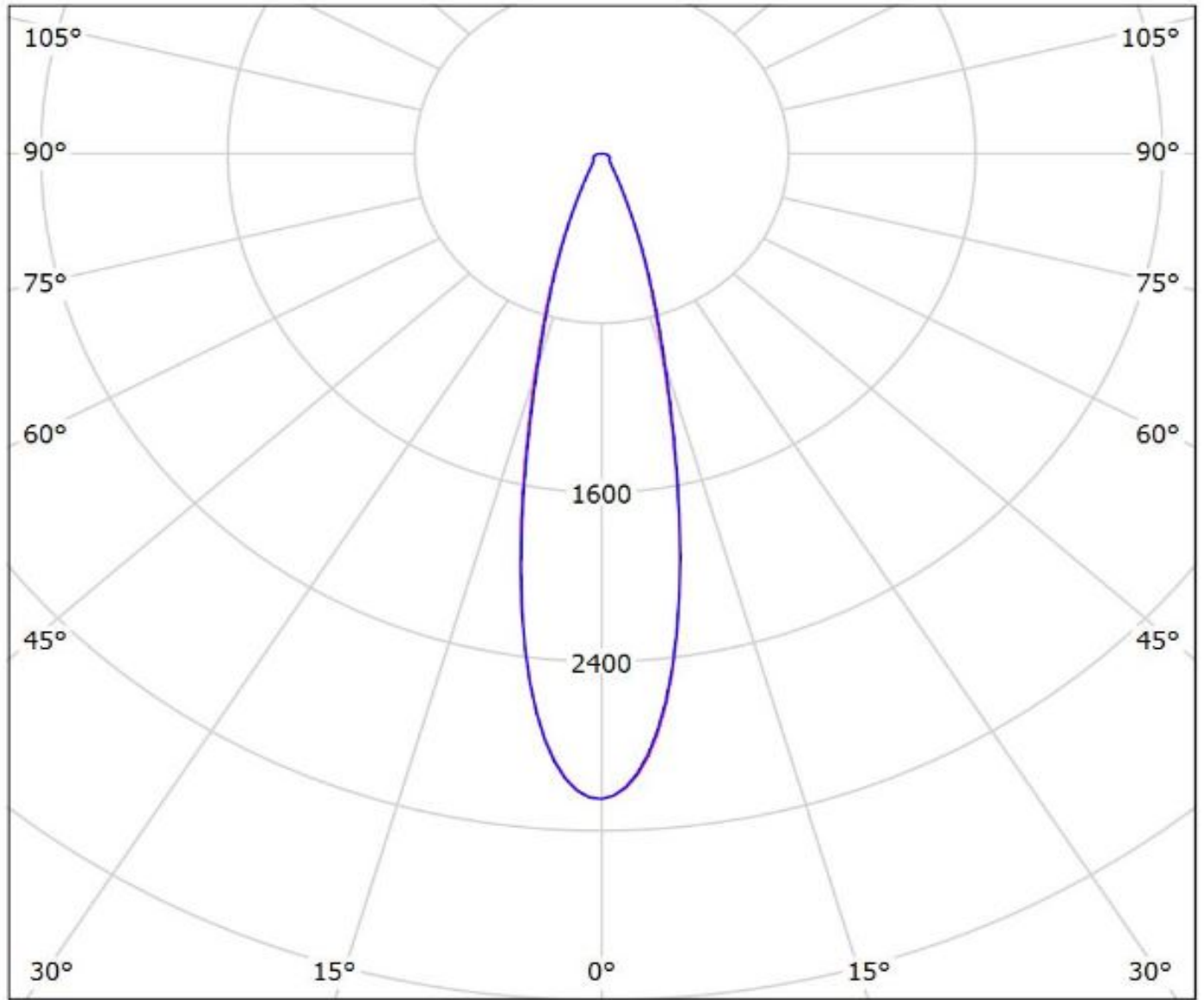
cd/klm

— C0 - C180 — C90 - C270

$\eta = 91\%$

Luminaire: Ledil C14607_HB-2X2-M_(Z8Y22plus)

Lamps: 1 x Seoul_Z8Y22plus_(W6E2G)_513.996lm@250mA_P=2.754W_I=0.250A



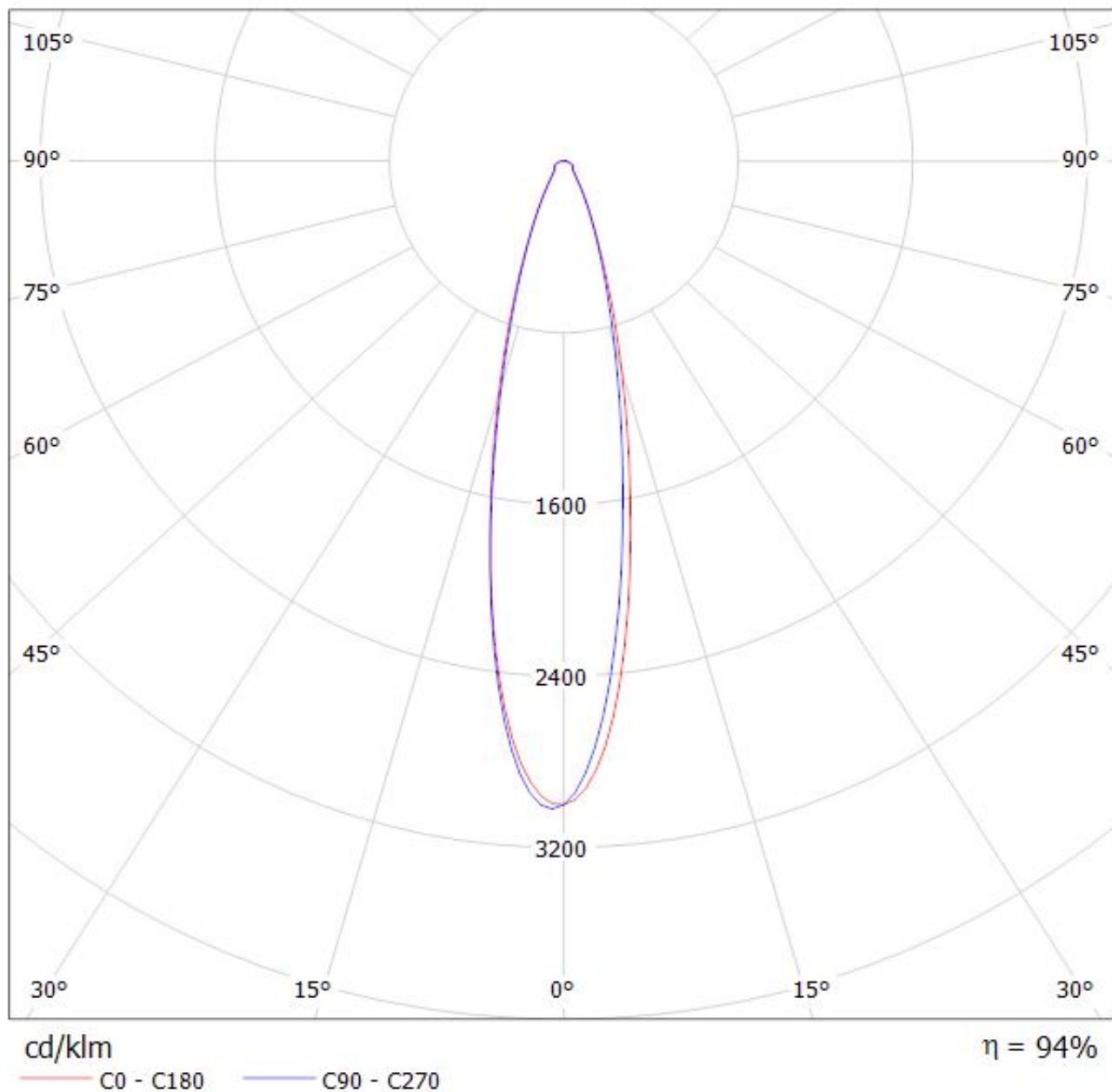
cd/klm

— C0 - C180

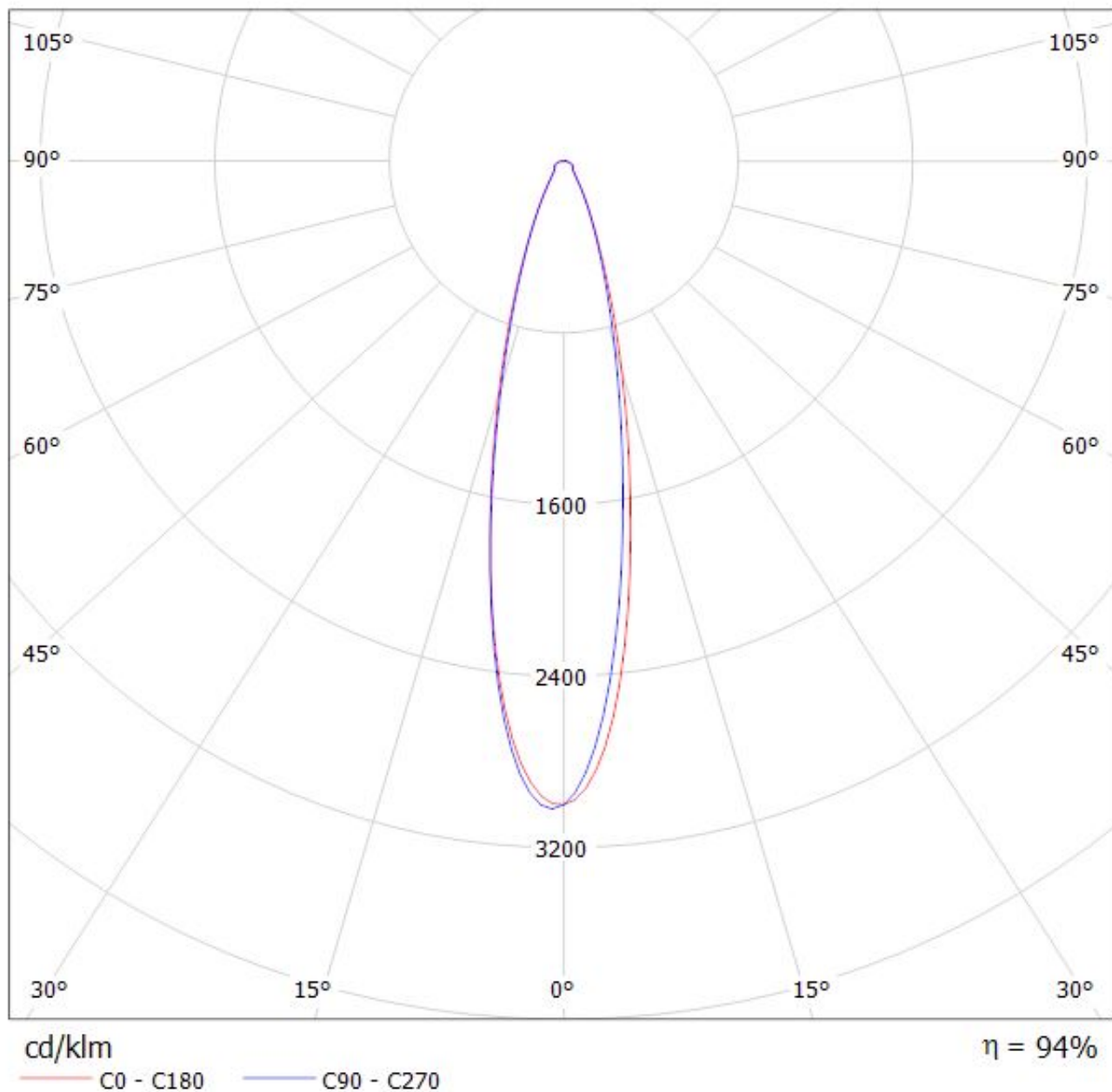
— C90 - C270

$\eta = 92\%$

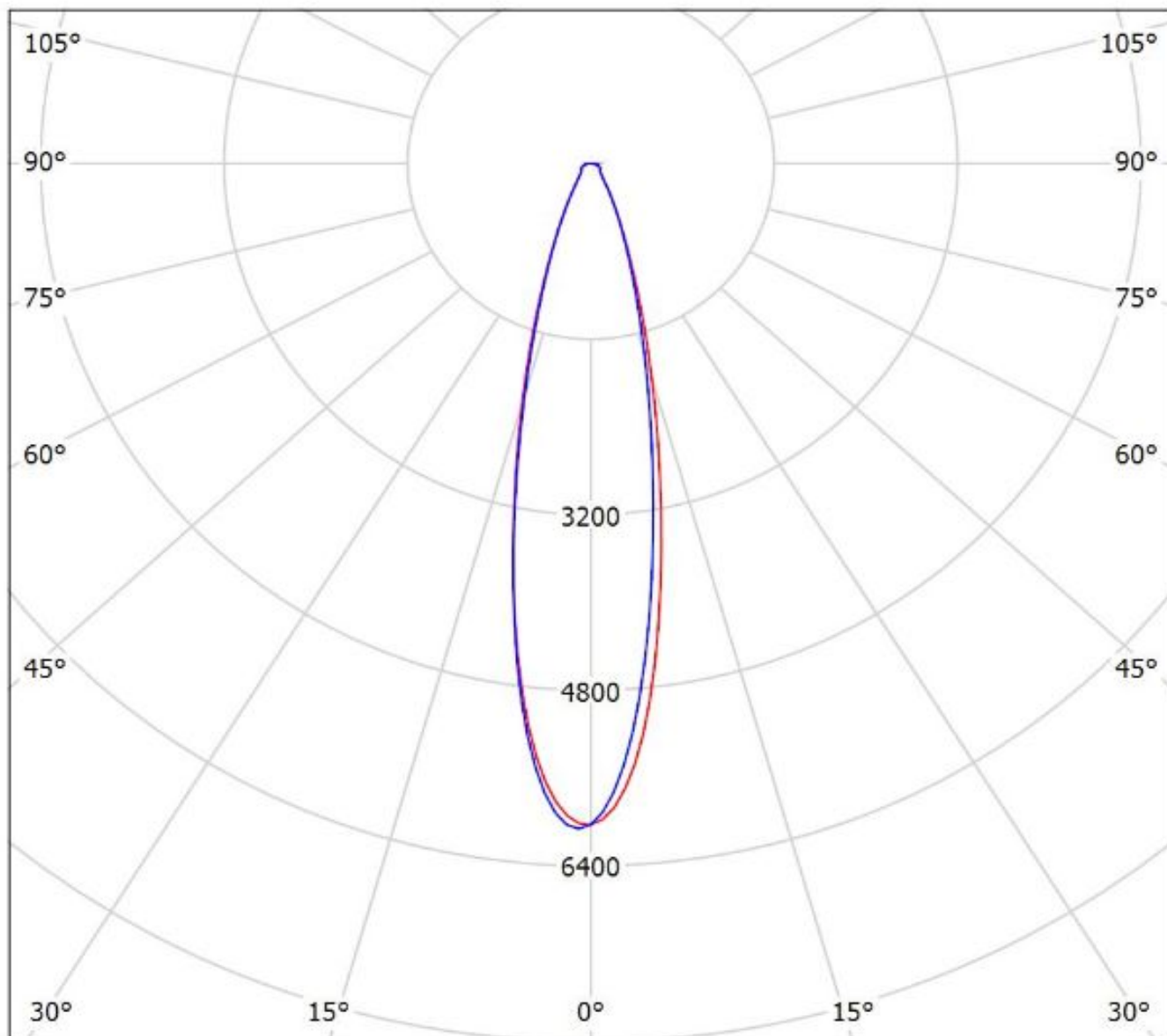
Luminaire: LEDiL Oy C14607_HB-2X2-M_(Tridonic_Module_RLE_G1)
Lamps: 1 x Tridonic_Module_RLE_G1_4594.42lm@700mA_P=32.1515W_I=0.700A



Luminaire: LEDiL Oy C14607_HB-2X2-M_(Tridonic_Module_RLE_G1)
Lamps: 1 x Tridonic_Module_RLE_G1_4594.42lm@700mA_P=32.1515W_I=0.700A



Luminaire: LEDiL Oy C14607_HB-2X2-M_(Tridonic_Module_RLE_G1
Lamps: 1 x Tridonic_Module_RLE_G1_2288lm@700mA_P=16W_I=0.700A

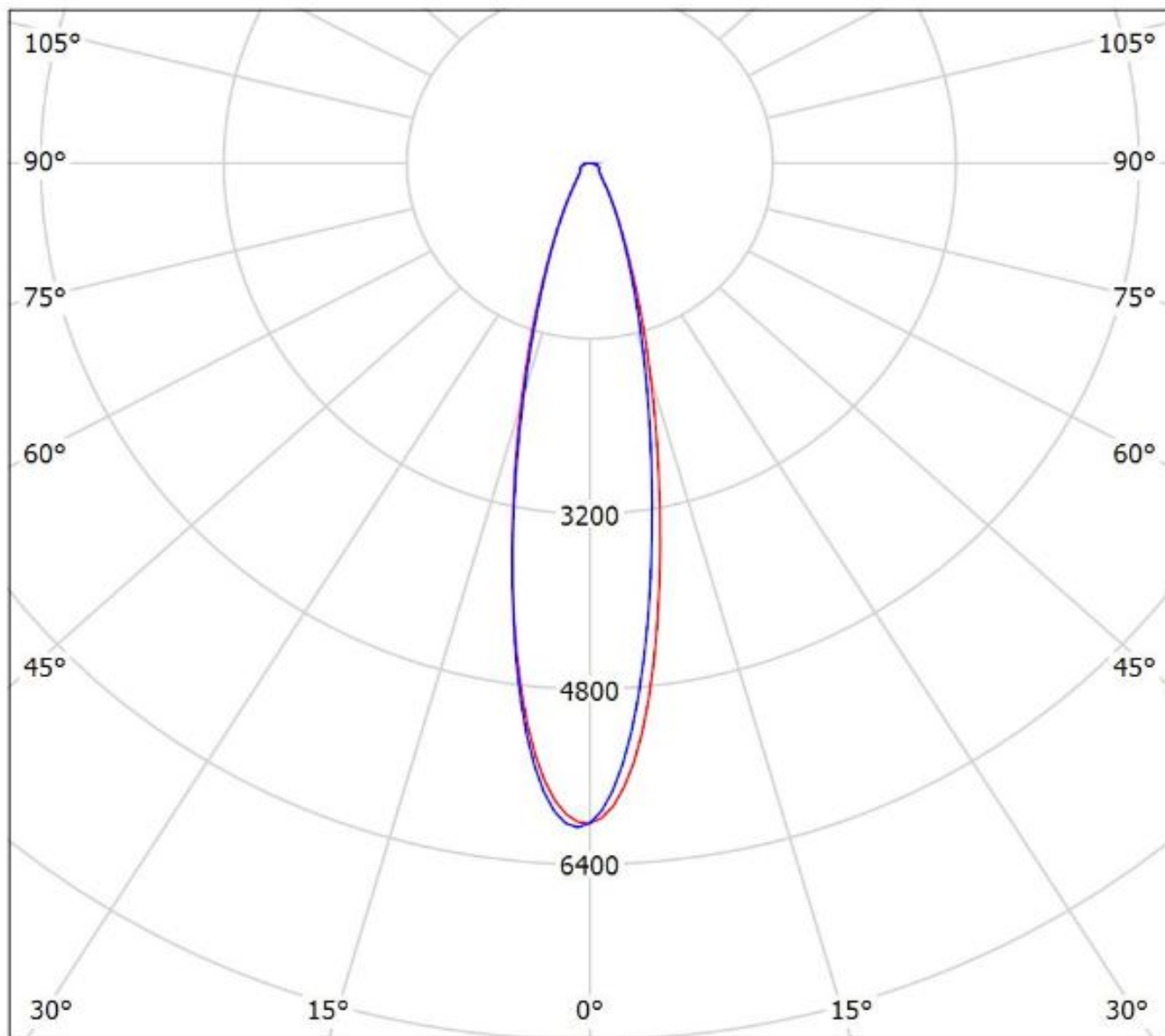


cd/klm

— C0 - C180 — C90 - C270

$\eta = 189\%$

Luminaire: LEDiL Oy C14607_HB-2X2-M_(Tridonic_Module_RLE_G1
Lamps: 1 x Tridonic_Module_RLE_G1_2288lm@700mA_P=16W_I=0.700A



cd/klm
— C0 - C180 — C90 - C270

$\eta = 189\%$

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.