

DETAILS

Product Number	CS14597_HB-IP-2X6-O
Family	HB
Type	Assembly
Color	clear
Diameter	173x71,4 mm
Height	12,2 mm
Style	rectang
Optic Material	PMMA
Holder Material	
Fastening	
Status	production ready
ROHS Compliant	Yes
Date Updated	8/09/2016



OPTICAL PROPERTIES

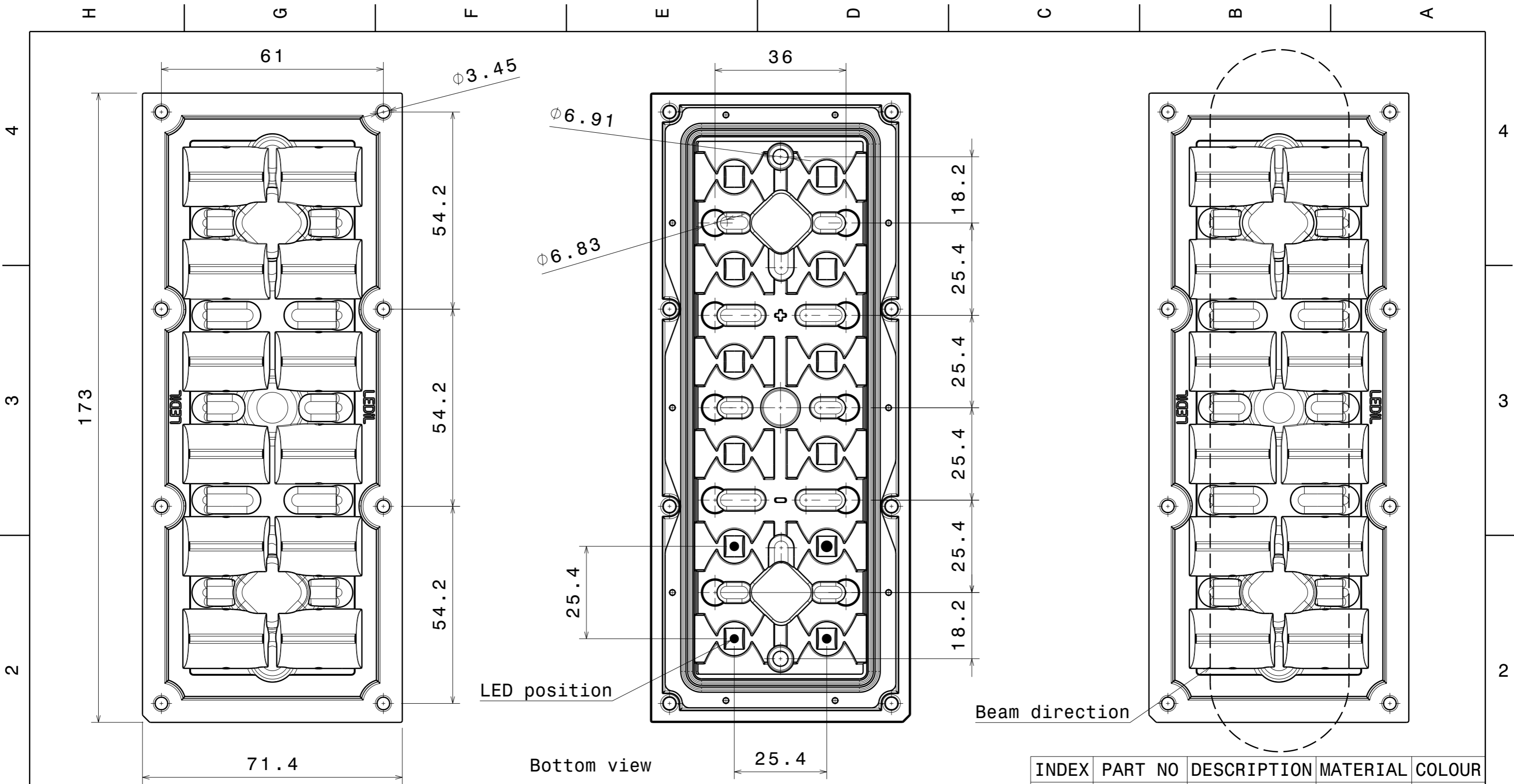
LED	Viewing	Light	Effi-	cd/lm	Connector
	Angle	Beam	ciency		
XM-L	36+110 deg	Asymmetric	91 %	0.610	-
XP-G2	32+116 deg	Asymmetric	92 %	0.660	-
XP-G	31+117 deg	Asymmetric	91 %	0.650	-
XT-E	31+119 deg	Asymmetric	92 %	0.630	-
XM-L2	36+108 deg	Asymmetric	91 %	0.630	-
XP-L	36+115 deg	Asymmetric	91 %	0.600	-
XP-G3	33+119 deg	Asymmetric	92 %	0.630	-
XP-L2	118+38 deg	Asymmetric	92 %	0.560	-
H35C1 (LEMWA33)	sim: 24 + 99	Asymmetric	sim: 94 %	sim: 1.200	-
LUXEON T	32+115 deg	Asymmetric	91 %	0.630	-
LUXEON R	30+109 deg	Asymmetric	91 %	0.680	-
LUXEON Rebel	28+107 deg	Asymmetric	91 %	0.730	-
LUXEON Rebel ES	30+110 deg	Asymmetric	91 %	0.690	-
LUXEON Z ES	25+108 deg	Asymmetric	90 %	0.790	-
LUXEON TX	30+111 deg	Asymmetric	90 %	0.690	-
LUXEON XR-TX (L2T0-xyy012M)	30+115 deg	Asymmetric	91 %	0.670	-
NVSxx19B/NVSxx19C	31+116 deg	Asymmetric	90 %	0.630	-
NVSxE21A	26+116 deg	Asymmetric	91 %	0.700	-
Oslon Square PC	30+111 deg	Asymmetric	92 %	0.690	-
Oslon Square EC	30+108 deg	Asymmetric	91 %	0.720	-
Duris S8	sim: 24+96	Asymmetric	sim: 93 %	sim: 1.010	-
Oslon Square Gen3	sim: 23+92	Asymmetric	sim: 93 %	sim: 1.360	-
Oslon SSL 80	26+92 deg	Asymmetric	93 %	0.890	-
LH351Z	29+104 deg	Asymmetric	91 %	0.770	-
Z5M1/Z5M2	29+105 deg	Asymmetric	90 %	0.730	-



PRODUCT DATASHEET
HB series
last update 8/9/2016

OPTICAL PROPERTIES

LED	Viewing Angle	Light Beam	Effi- ciency	cd/lm	Connector
Z8Y22P	122+32 deg	Asymmetric	92 %	0.630	-
TL1L4	29+107 deg	Asymmetric	87 %	0.690	-



LED position

Beam direction

Top view

Bottom view

Front view

INDEX	PART NO	DESCRIPTION	MATERIAL	COLOUR
1	C14018	2X6-SEAL25	Silicone	white
2	C14562	HB-IP-2X6-0	PMMA	clear

Tolerances if not otherwise shown
 According to DIN ISO 2768-1
 Linear measures: class M
 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
CS14597_HB-IP-2X6-0

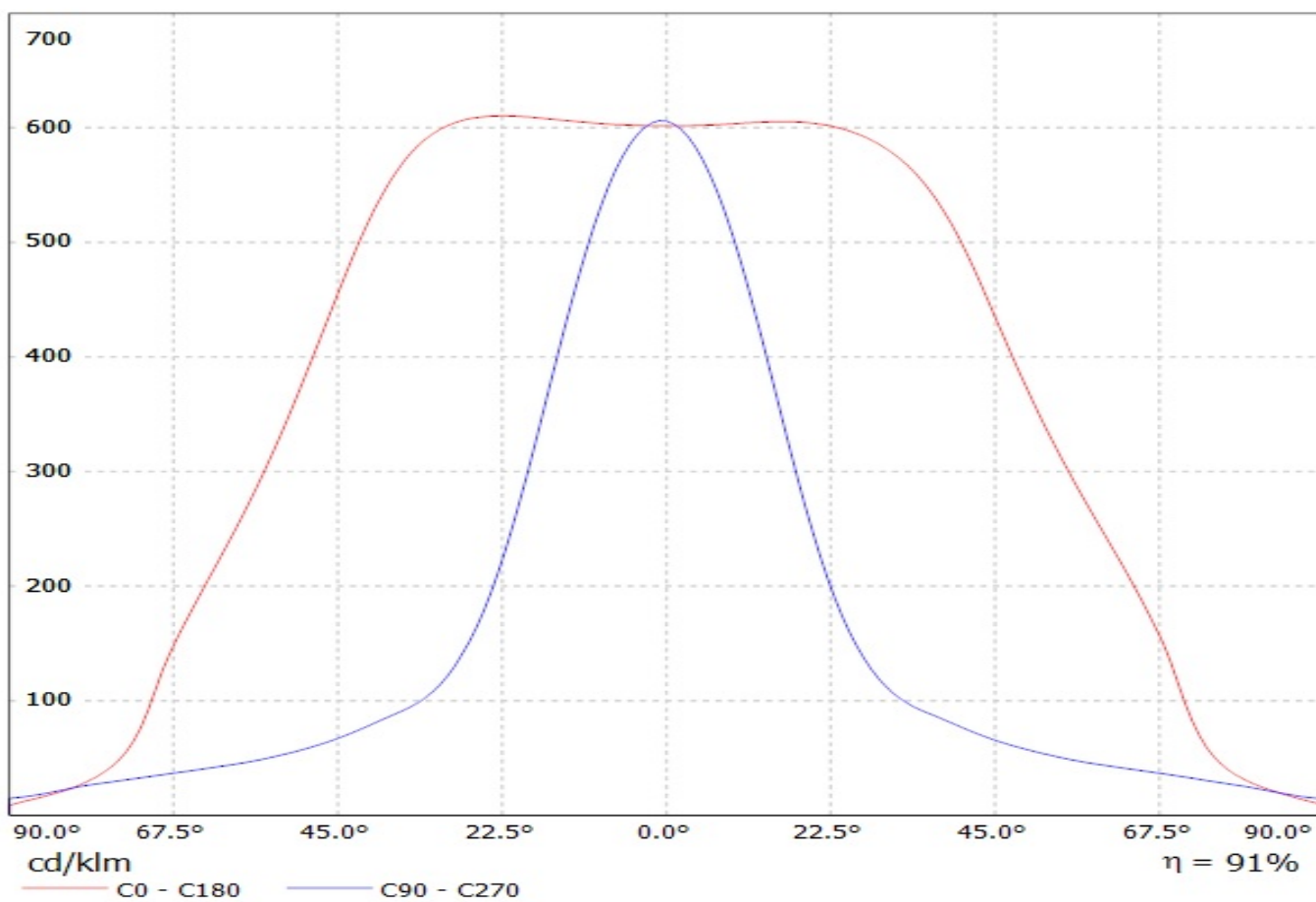
This drawing is the property of LEDiL Oy. It may not be reproduced, copied or communicated without a written agreement with LEDiL Oy.

SIZE PART NUMBER
A3 CS14597

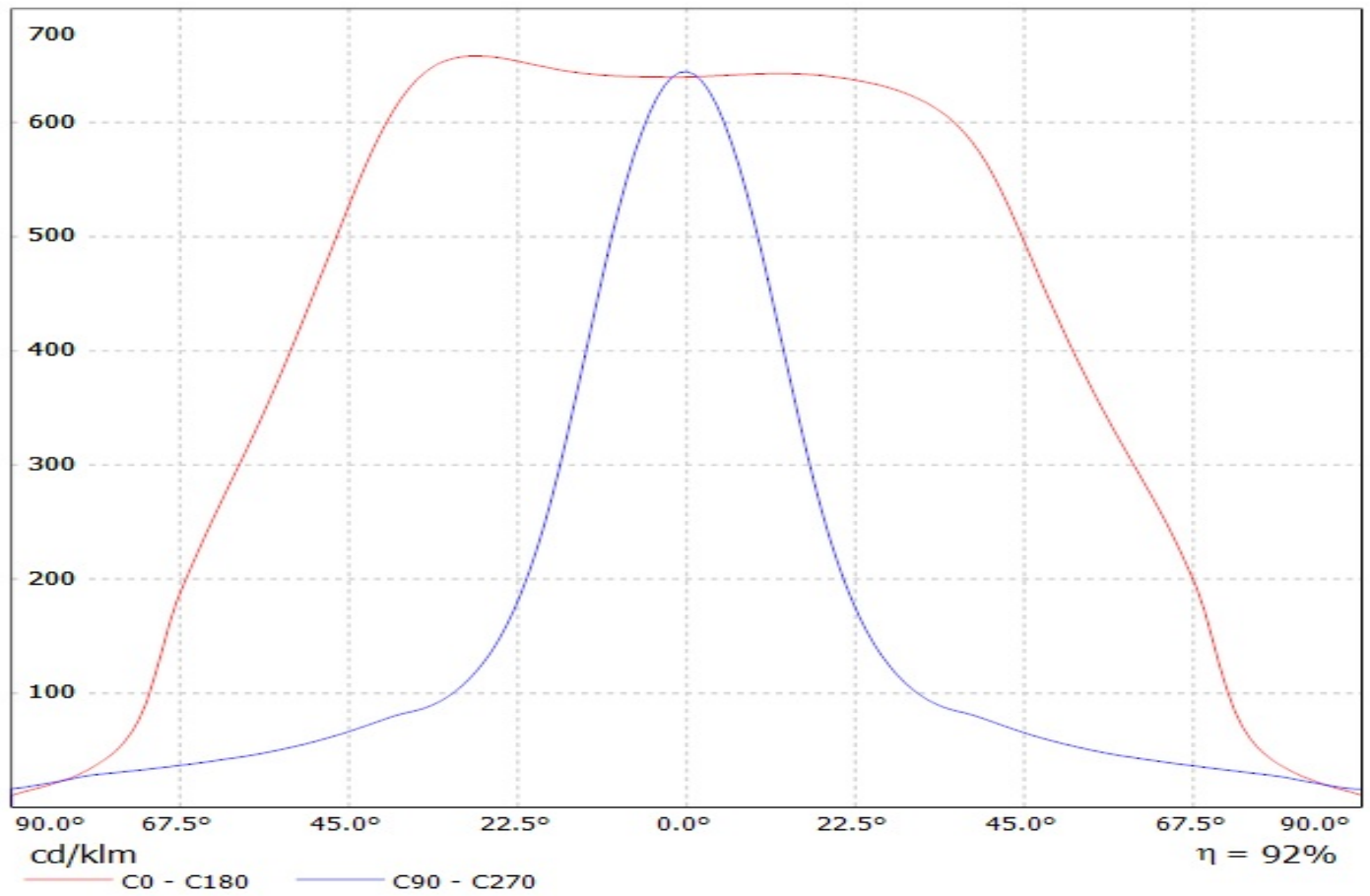
SCALE 1:1 WEIGHT 63,05 g SHEET 1/1

Luminaire: LEDiL Oy CS14597_HB-IP-2X6-O_(XM-L)

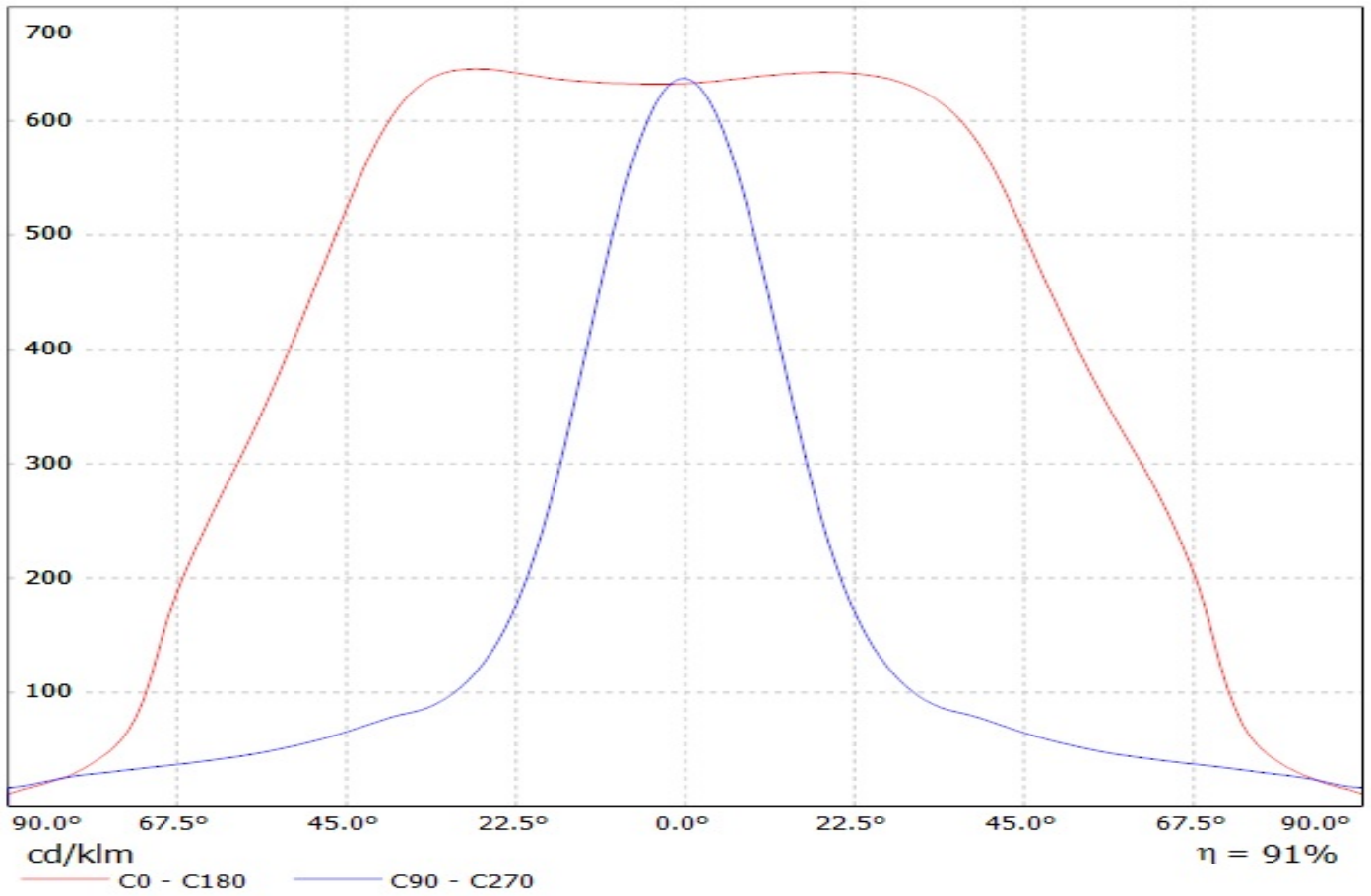
Lamps: 1 x Cree_XM_L_2x6_(XMLAWT-00-0000-000LT2OE7)_995.915lm@250mA_P=8.16796W_I=0.2498A



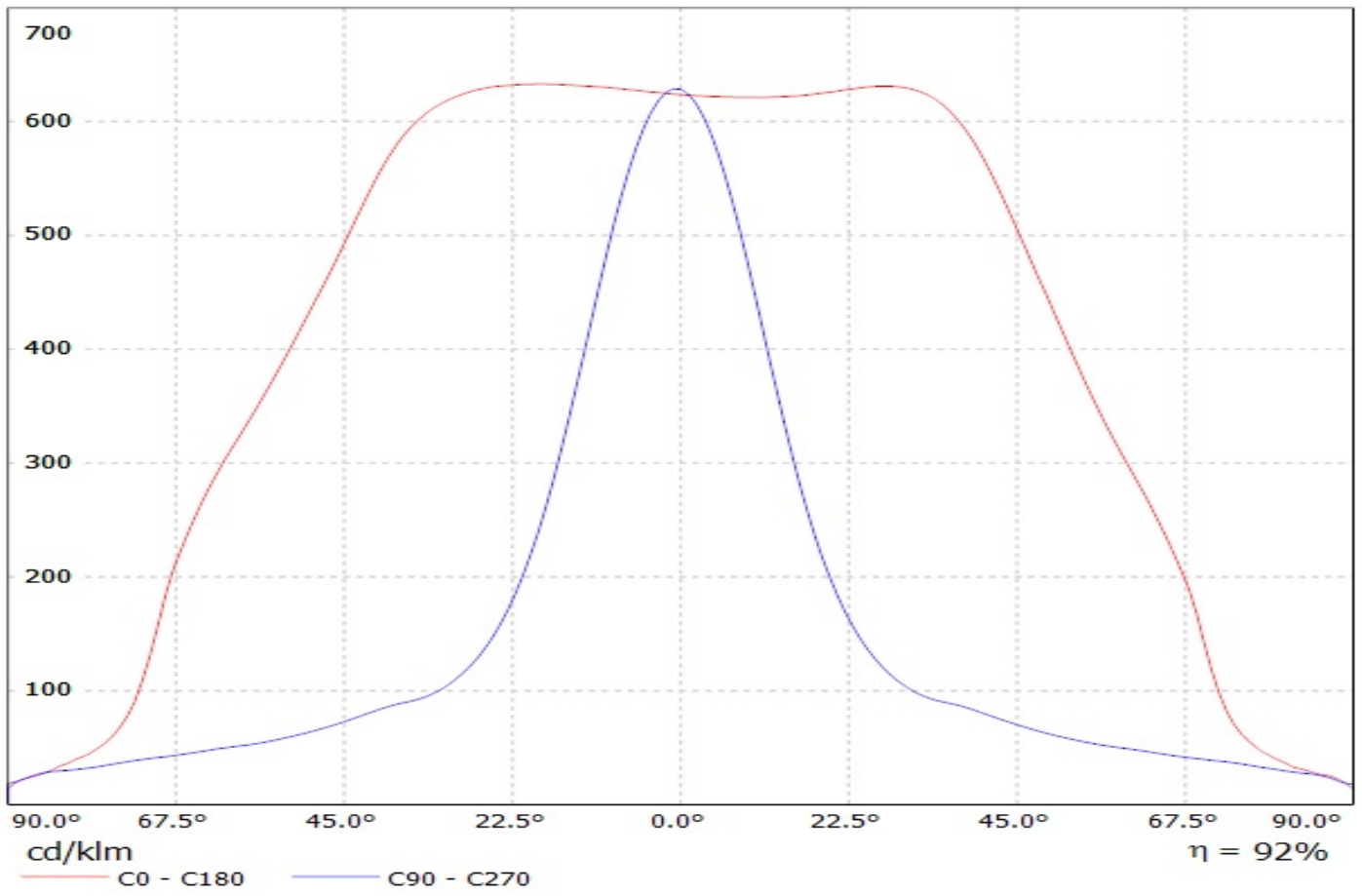
Luminaire: LEDiL Oy CS14597_HB-IP-2X6-O_(XP-G2)
Lamps: 1 x Cree_XP-G2_2x6_1237.61lm@250mA_P=8.57988W_I=0.2498A



Luminaire: LEDiL Oy CS14597_HB-IP-2X6-O_(XP-G)
Lamps: 1 x Cree_XP-G_2x6_779.527lm@250mA_P=8.54416W_I=0.2498A

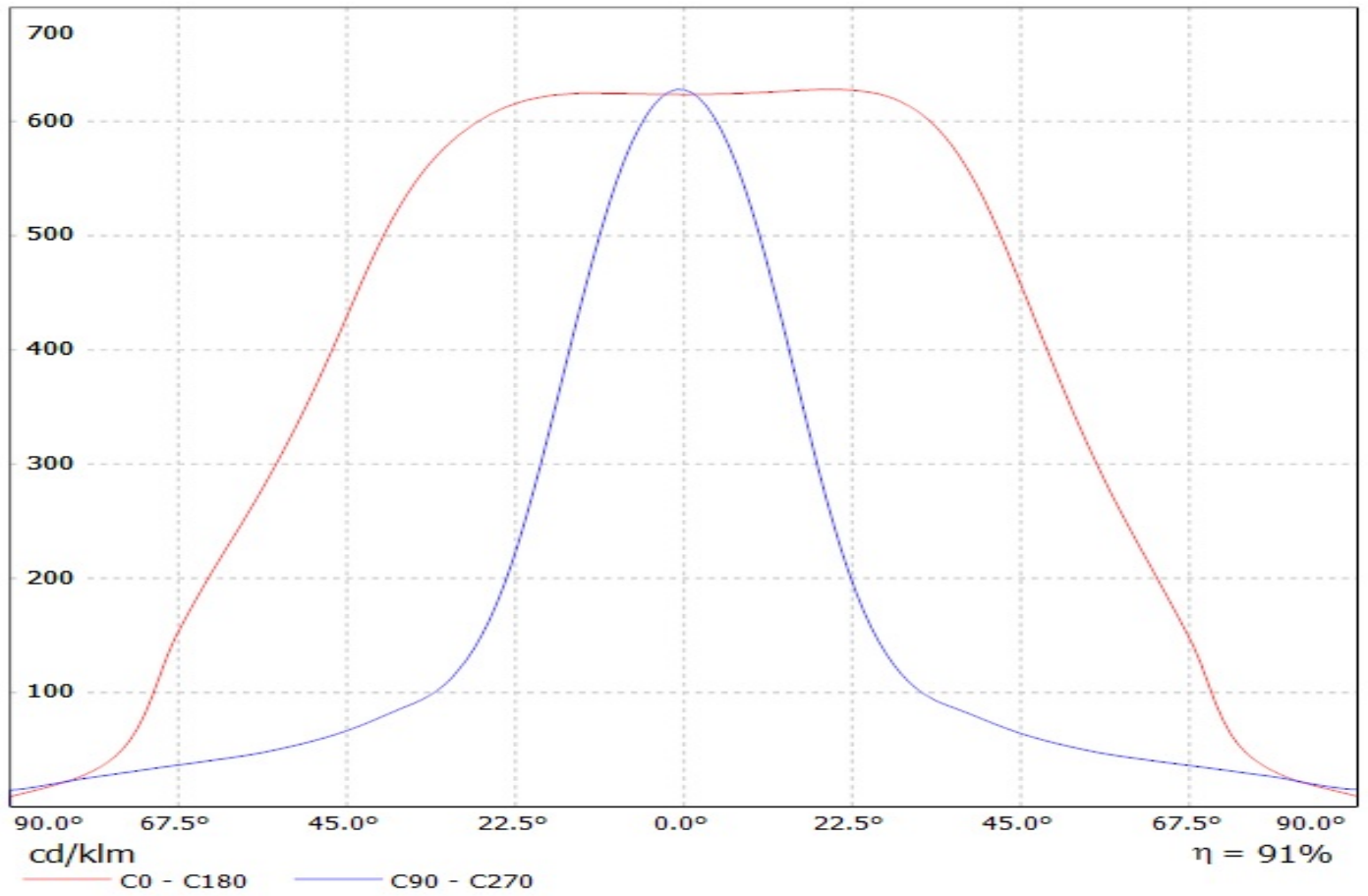


Luminaire: LEDiL Oy CS14597_HB-IP-2X6-O_(XT-E)
Lamps: 1 x Cree_XT-E_2x6_1235.9lm@250mA_P=8.88264W_I=0.2498A

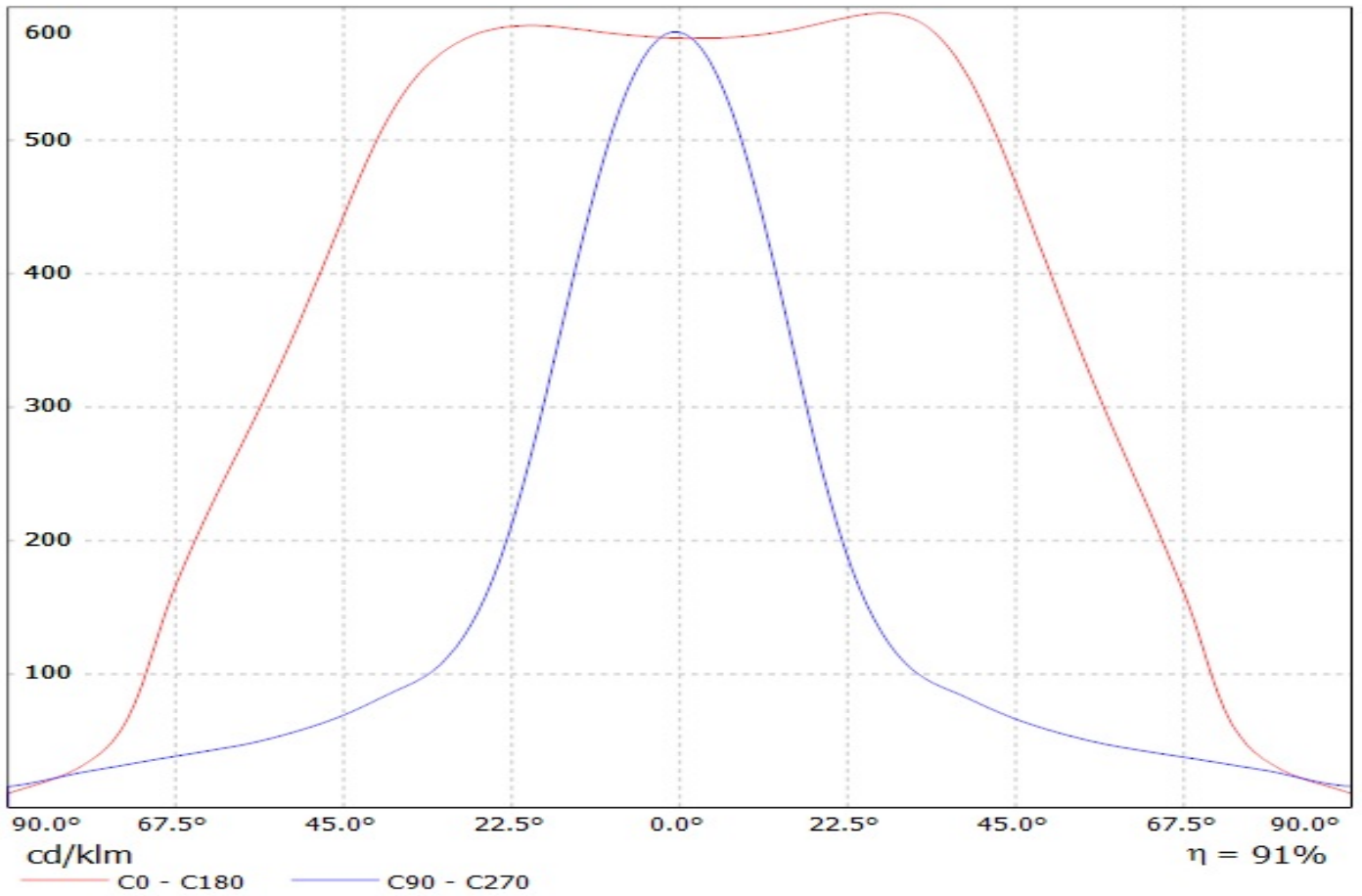


Luminaire: LEDiL Oy CS14597_HB-IP-2X6-O_(XM-L2)

Lamps: 1 x Cree_XM-L2_(XMLBWT-00-0000-000LT30E7)_1173.92lm@250mA_P=8.28212W_I=0.2498A

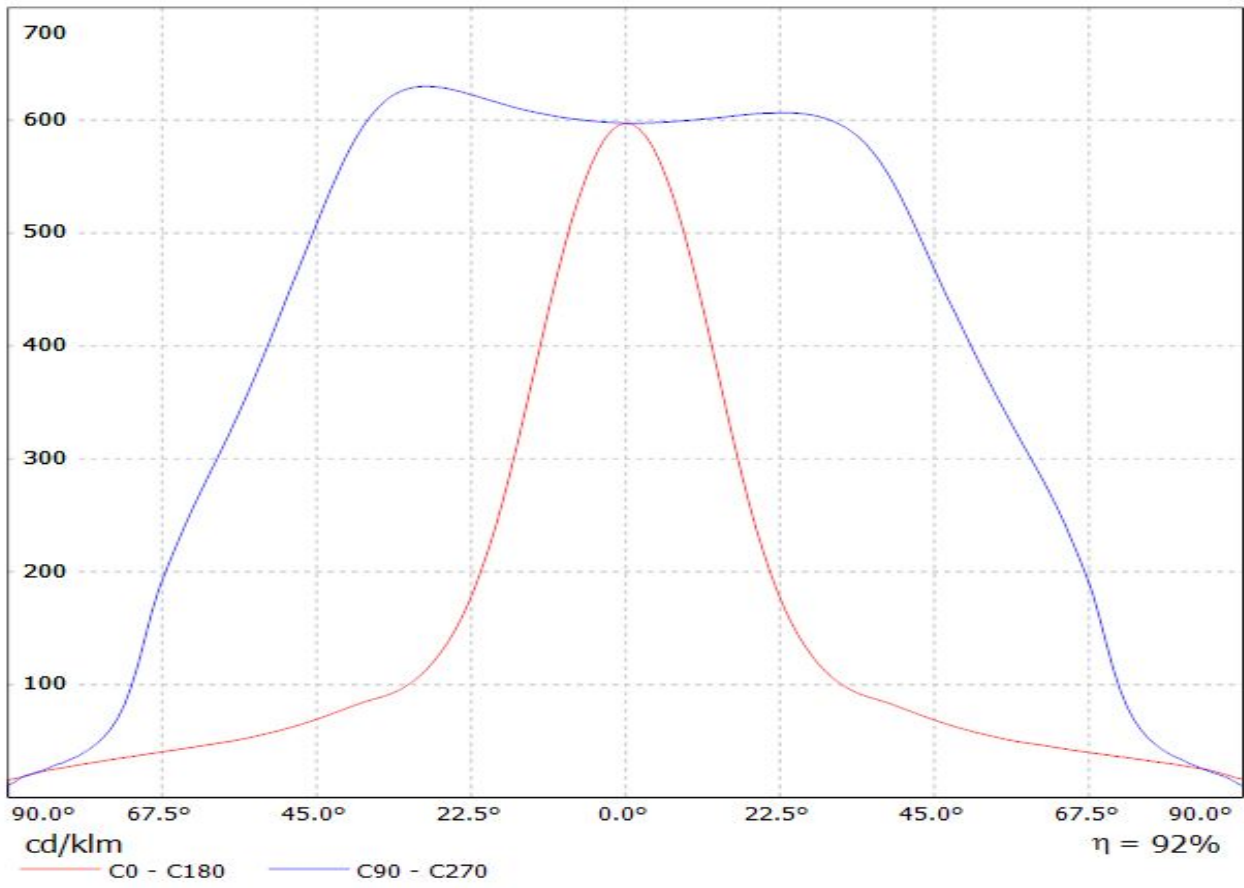


Luminaire: LEDiL Oy CS14597_HB-IP-2X6-O_(XP-L)
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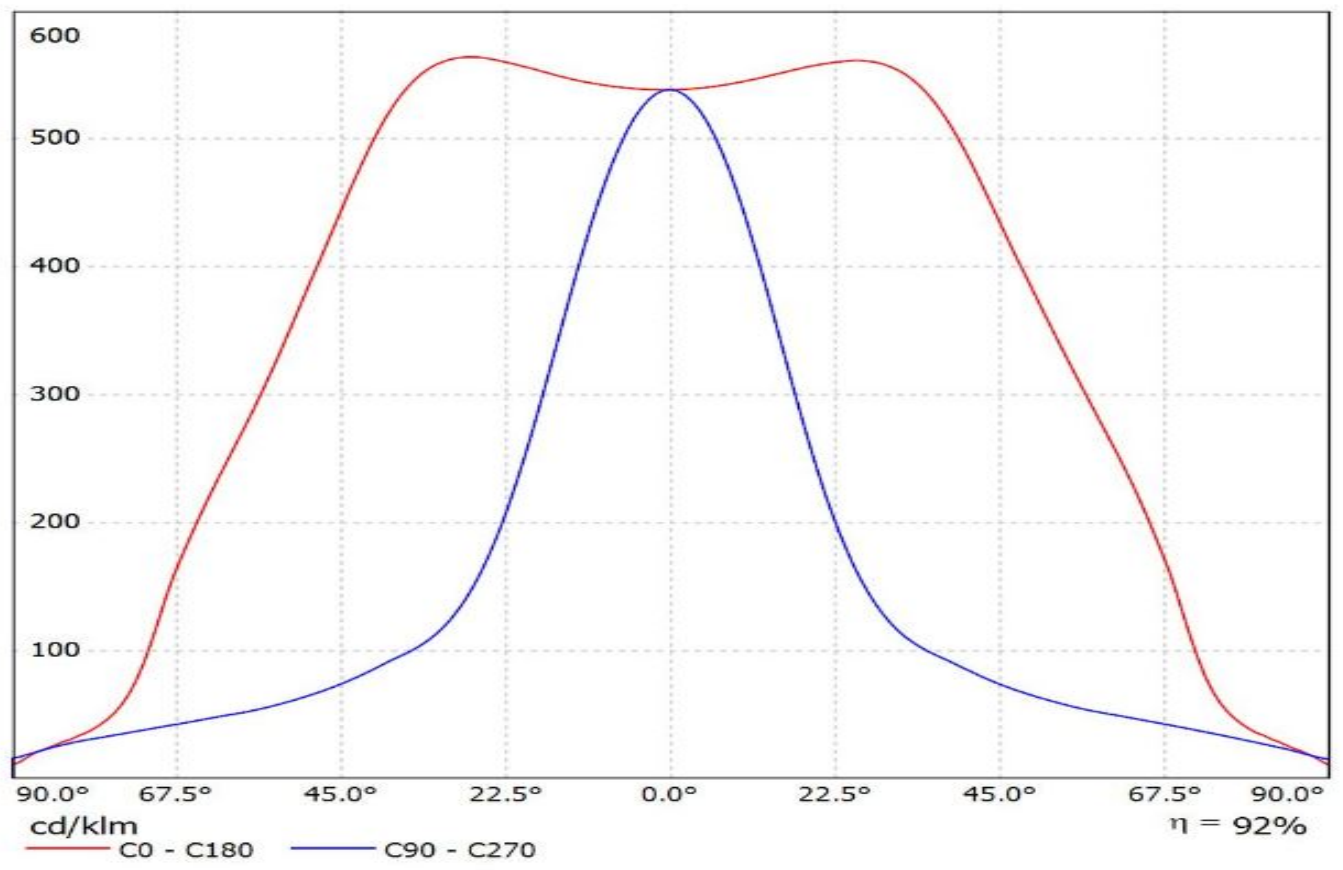


Luminaire: Ledil CS14597_HB-IP-2x6-0_(XP-G3)

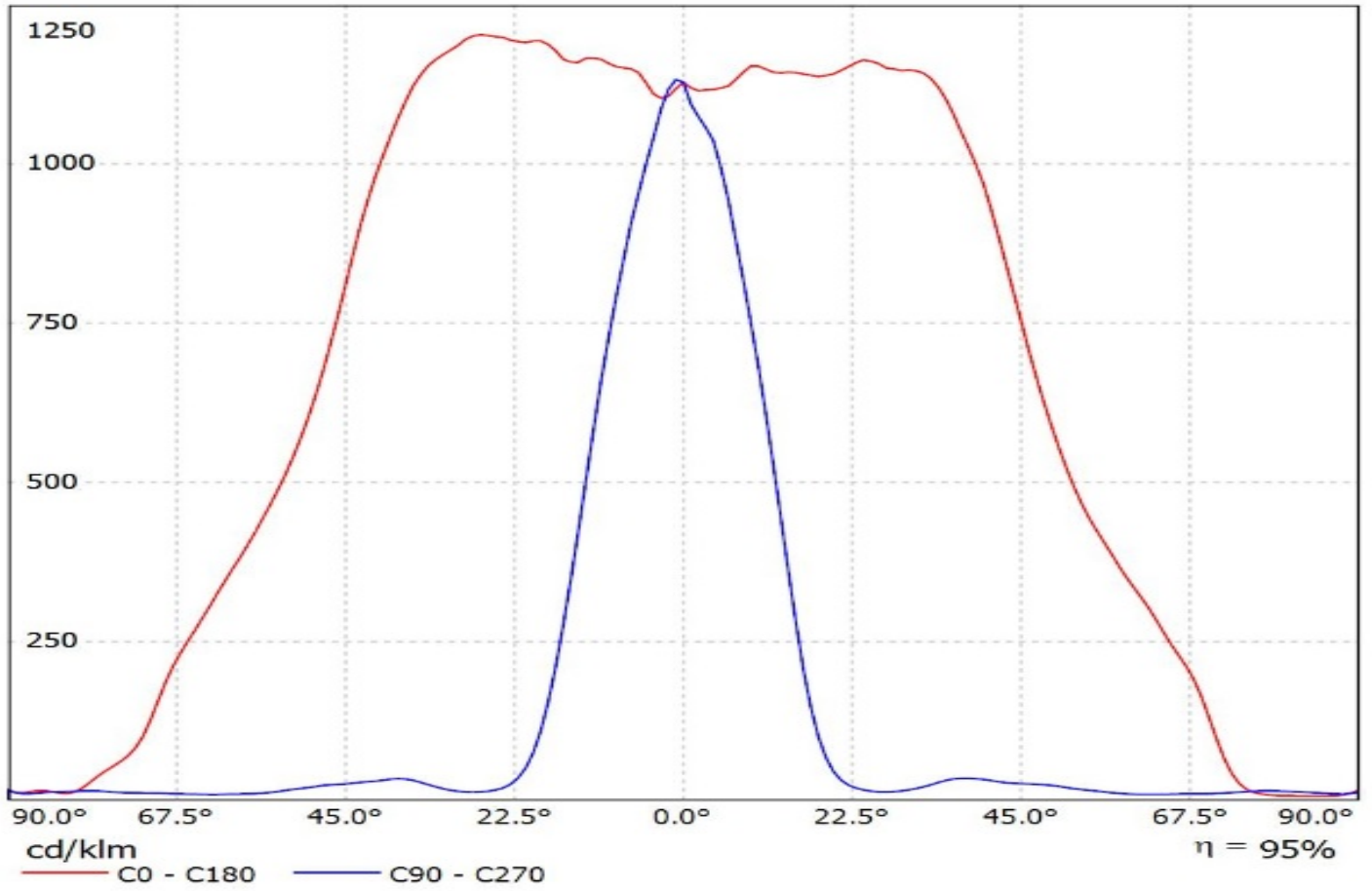
Lamps: 1 x Cree_XP-G3_6x2_(XPGDWT-B1-6C1-S3-0-01)_1521.26lm@250mA_P=8.253W_I=0.25A



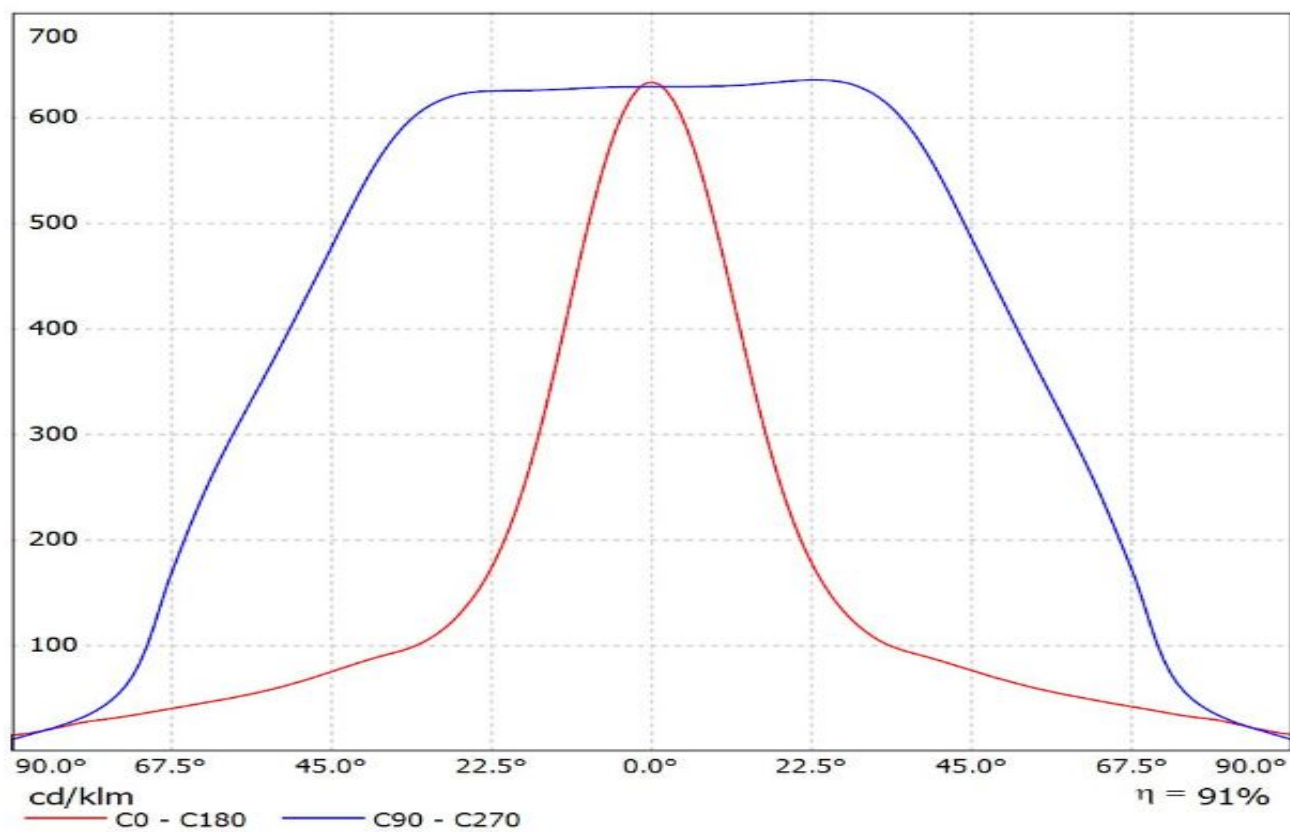
Luminaire: Ledil CS14597_HB-IP-2X6-O_(XP-L2)
Lamps: 1 x Cree_XP-L2x12_(XPGBWT-H1-3B0-R5-0-01)
1666.32lm@250mA_CCT=5000_P=8.239W_I=0.25A



Luminaire: Ledil Oy CS14597_HB-IP-2X6-O_(H35C1)_SIMULATED
Lamps: 1 x LG H35C1

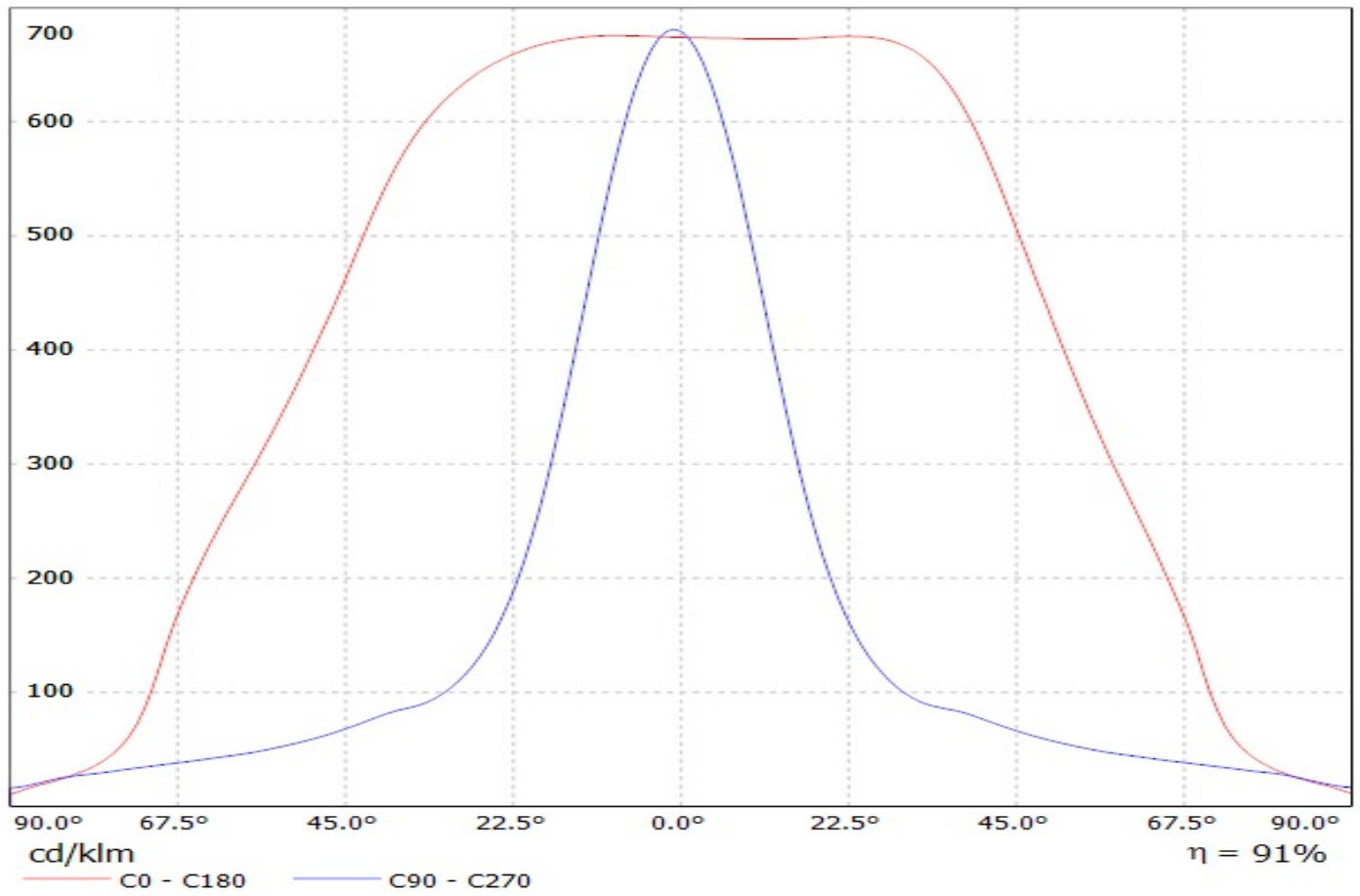


Luminaire: LEDiL Oy CS14597_HB-IP-2X6-O_(Luxeon_T)_2
Lamps: 1 x Luxeon_T_2x6_(LXH8-FW30)_1041.23lm@250mA_P=8.3779W_I=249.8mA



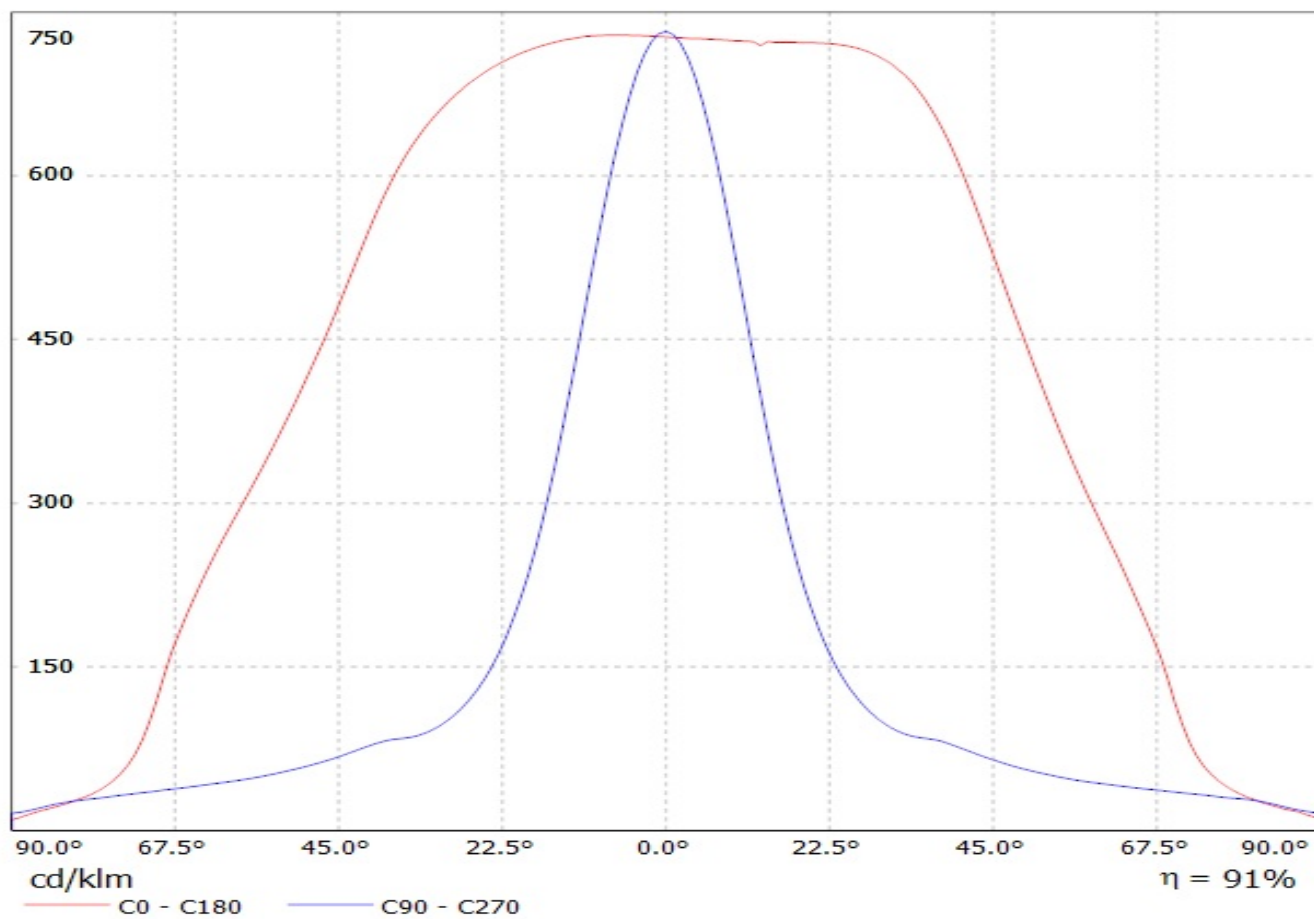
Luminaire: LEDiL Oy CS14597_HB-IP-2X6-O_(Luxeon_R)

Lamps: 1 x Philips_Lumileds_Luxeon_R_2x6_848.853lm@250mA_P=9.03352W_I=0.2498A



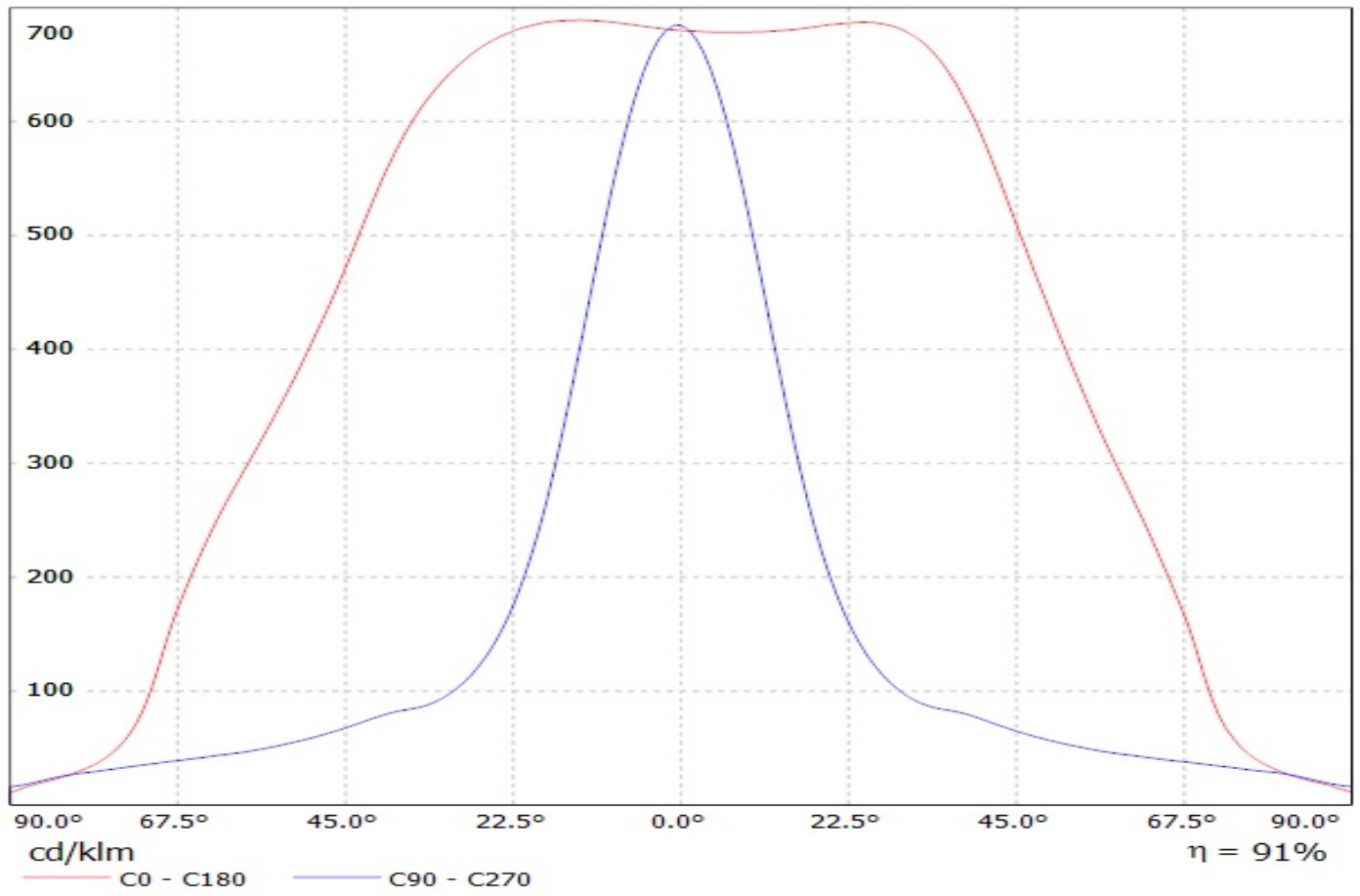
Luminaire: LEDiL Oy CS14597_HB-IP-2X6-O_(Luxeon_Rebel)

Lamps: 1 x Philips_Lumileds_Luxeon_Rebel_2x6_(LXM8-PW30)_745.574lm@250mA_P=8.36755W_I=0.2498A



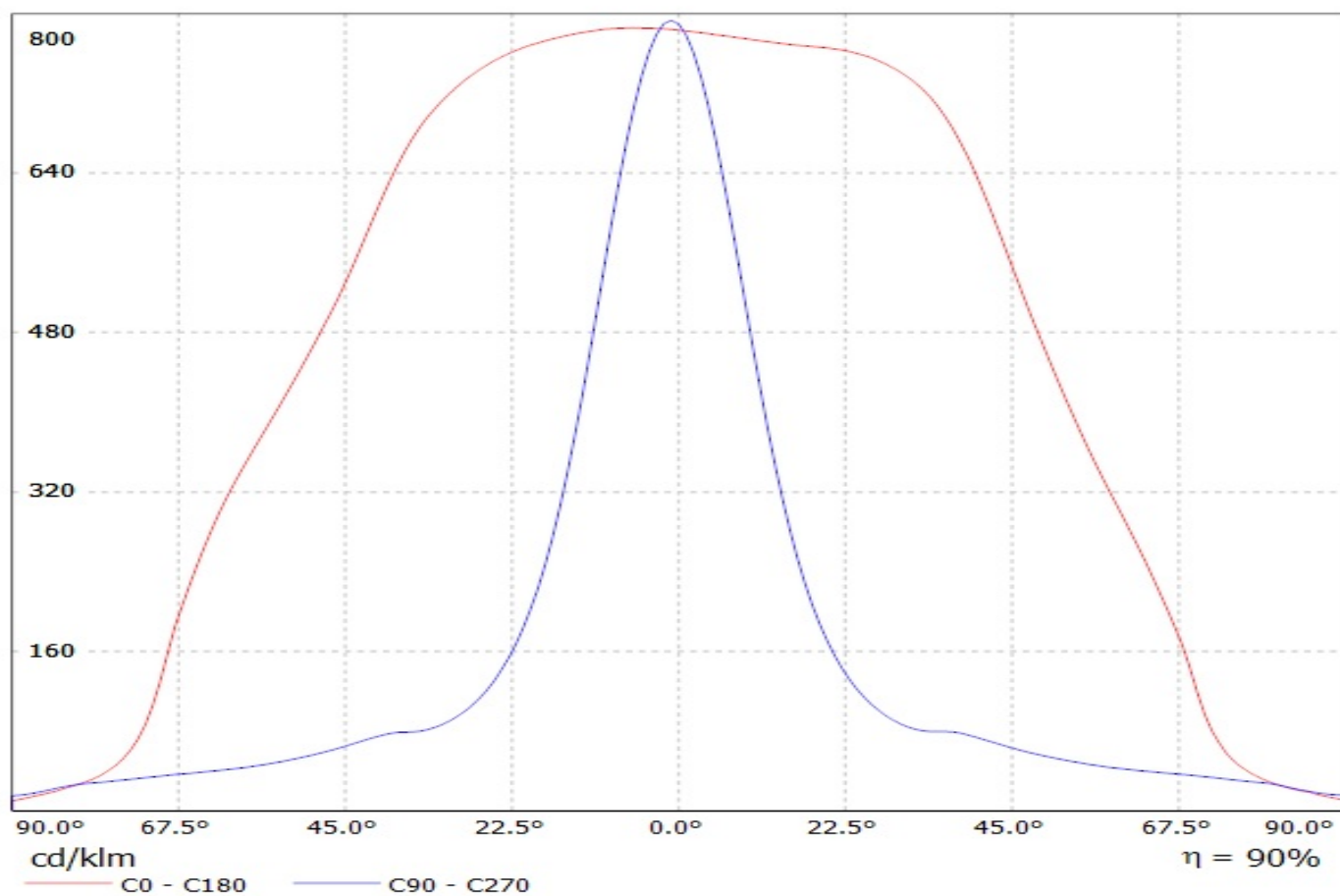
Luminaire: LEDiL Oy CS14597_HB-IP-2X6-O_(Luxeon_Rebel_ES)

Lamps: 1 x Philips_Lumileds_Luxeon_Rebel_ES_2x6_1132.87lm@250mA_P=8.30967W_I=0.2499A



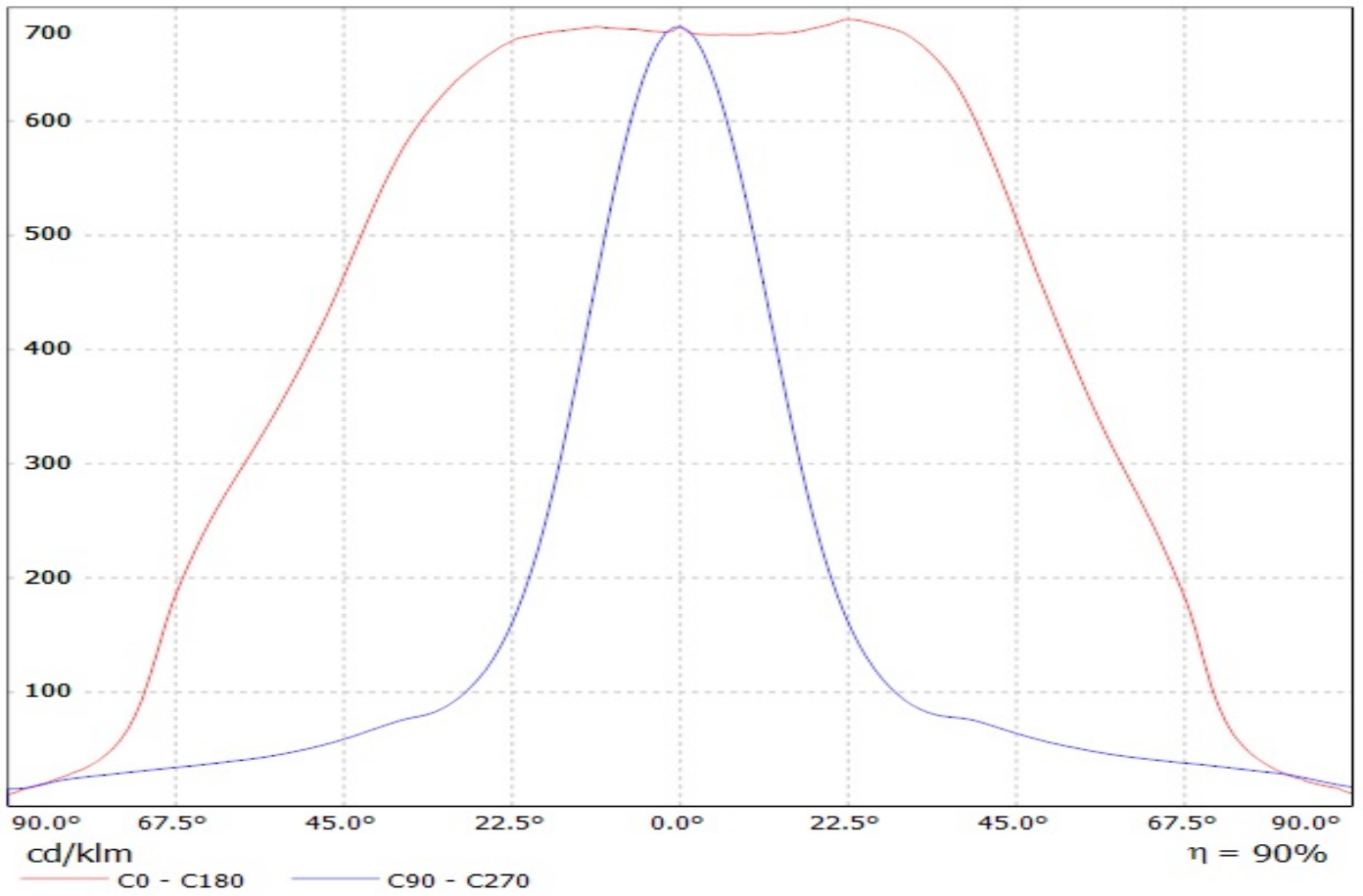
Luminaire: LEDiL Oy CS14597_HB-IP-2X6-O_(Luxeon_Z_ES)

Lamps: 1 x Philips_Lumileds_Luxeon_Z_ES_2x6_977.042lm@250mA_P=8.33092W_I=0.2499A



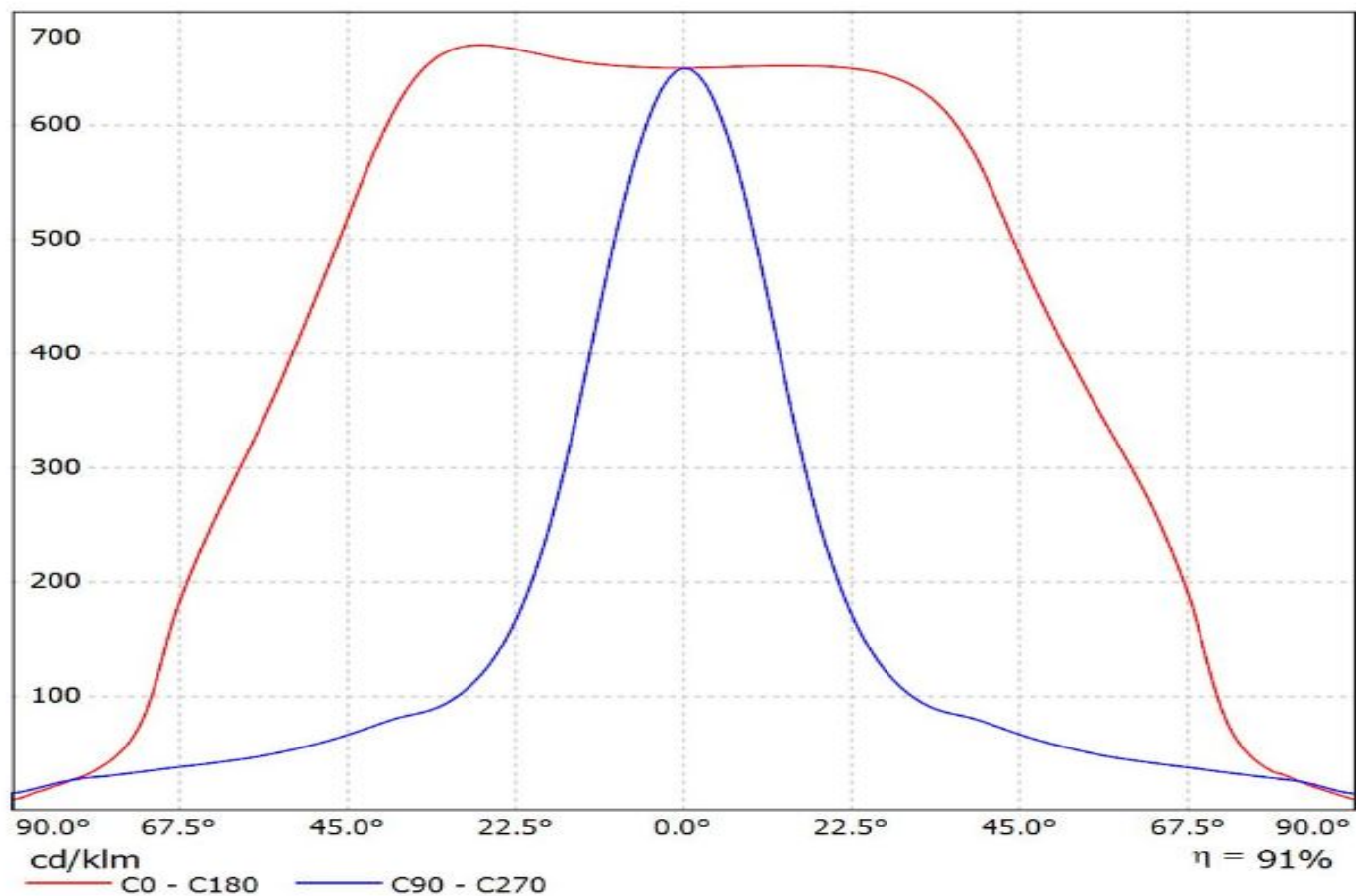
Luminaire: LEDiL Oy CS14597_HB-IP-2X6-O_(Luxeon_TX)

Lamps: 1 x Philips_Lumileds_Luxeon_TX_2x6_1294.69lm@250mA_P=8.32967W_I=0.2499A



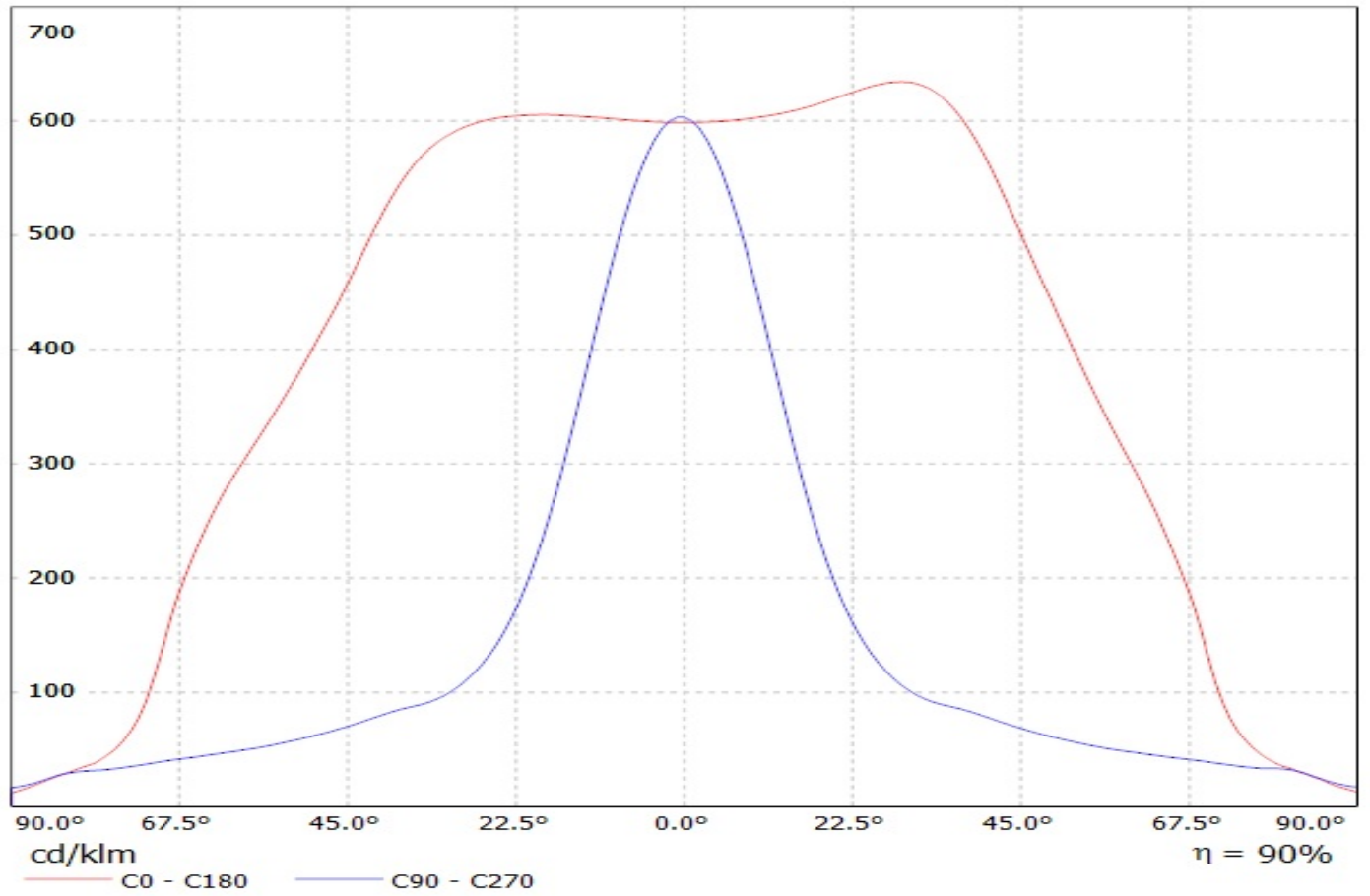
Luminaire: Ledil CS14597_HB-IP-2X6-O_(XR-TX)

Lamps: 1 x Luxeon_XR-TX_1376.41lm@250mA_P=8.3920W_I=0.250A

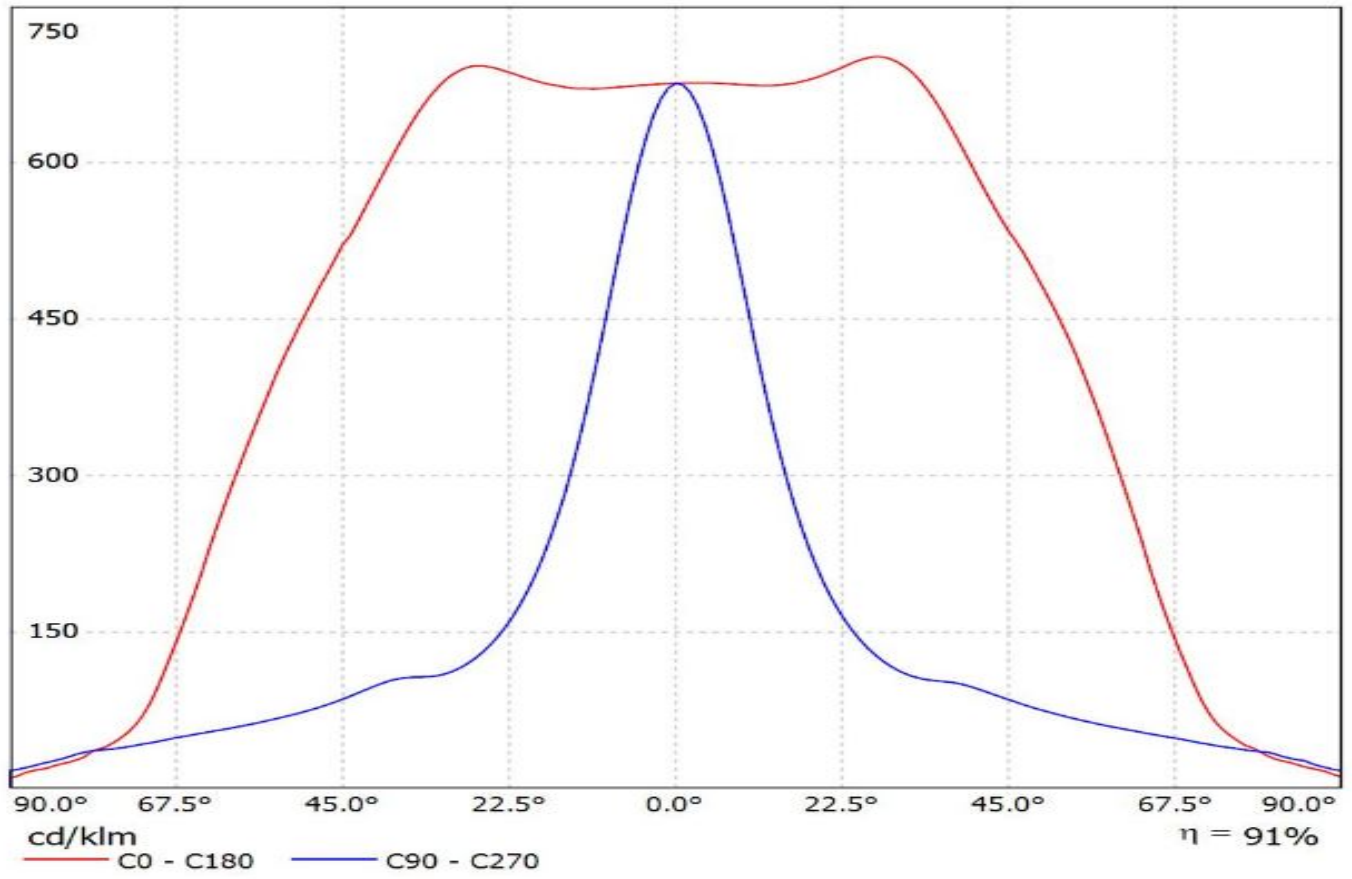


Luminaire: LEDiL Oy CS14597_HB-IP-2X6-O_(NVSxx19B)

Lamps: 1 x Nichia_NVsxx19B_(NVSL219BT)_2x6_1264.03lm@250mA_P=8.31559W_I=0.2498A

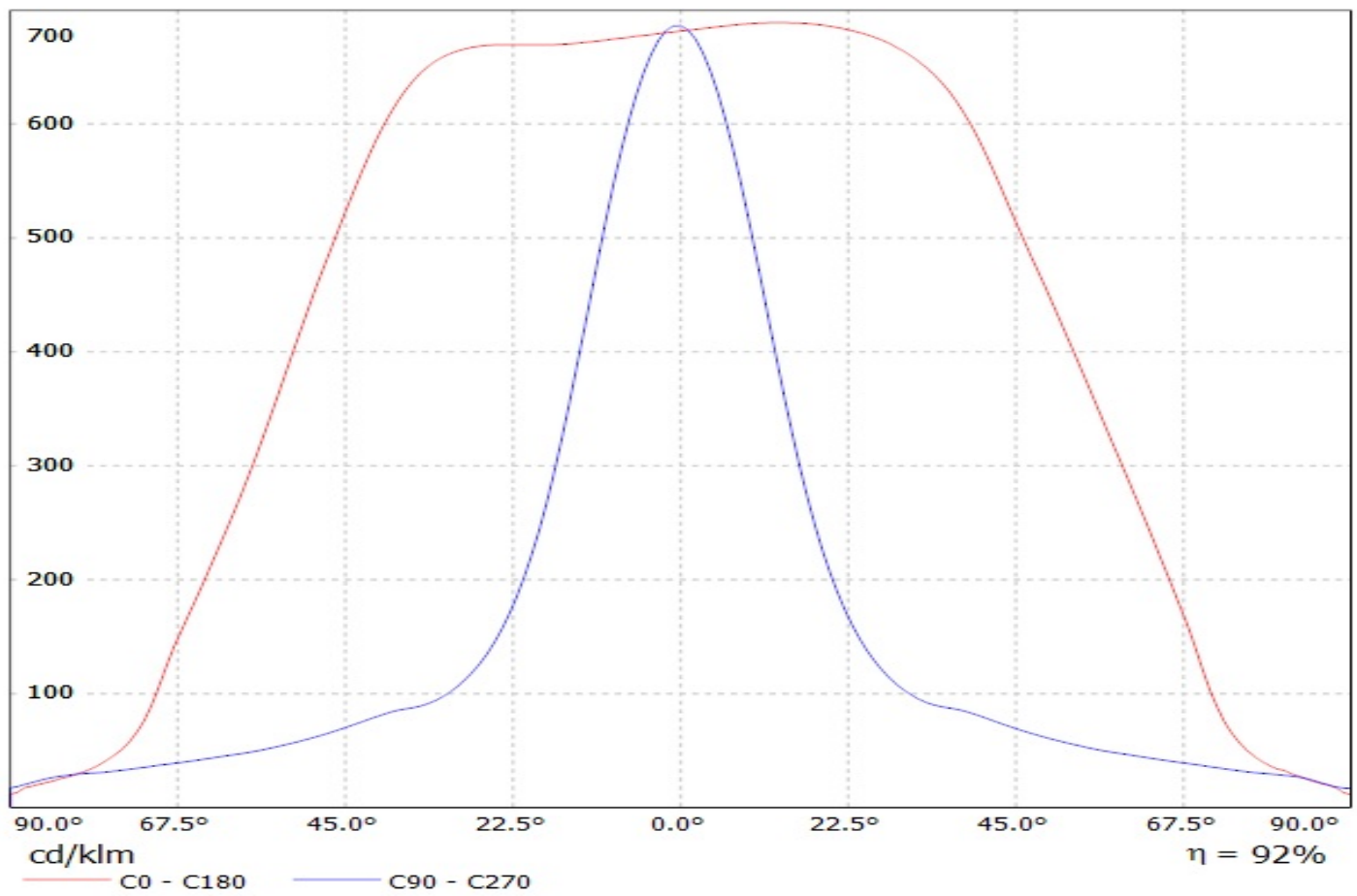


Luminaire: Ledil CS14597_HB-IP-2X6-O (Nichia_E21)
Lamps: 1 x Nichia_NVSW21A_602.725lm@600mA_P=3.5006W_I=0.600A



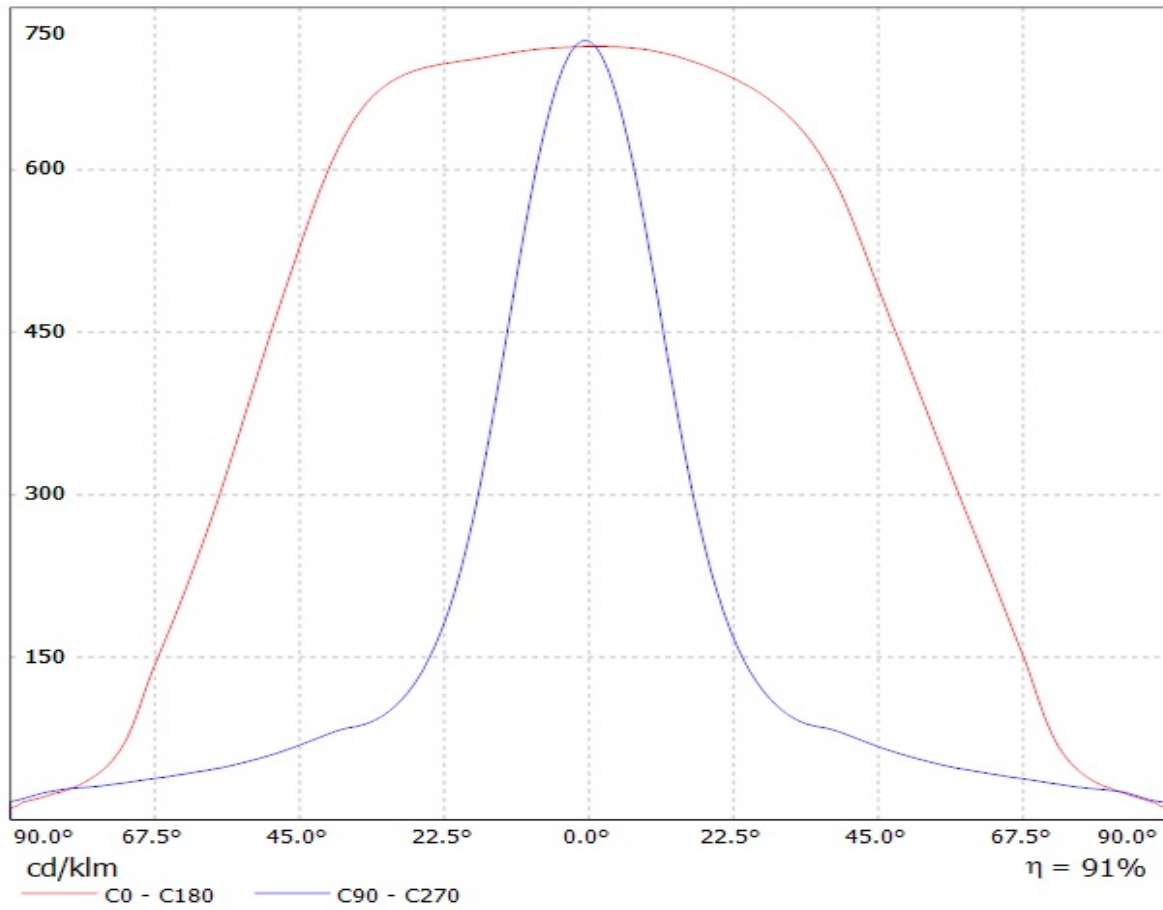
Luminaire: LEDiL Oy CS14597_HB-IP-2X6-O_(Oslon_Square_PC)

Lamps: 1 x Osram_Oslon_Square_PC_2x6_1225.05lm@250mA_P=8.80595W_I=0.2498A

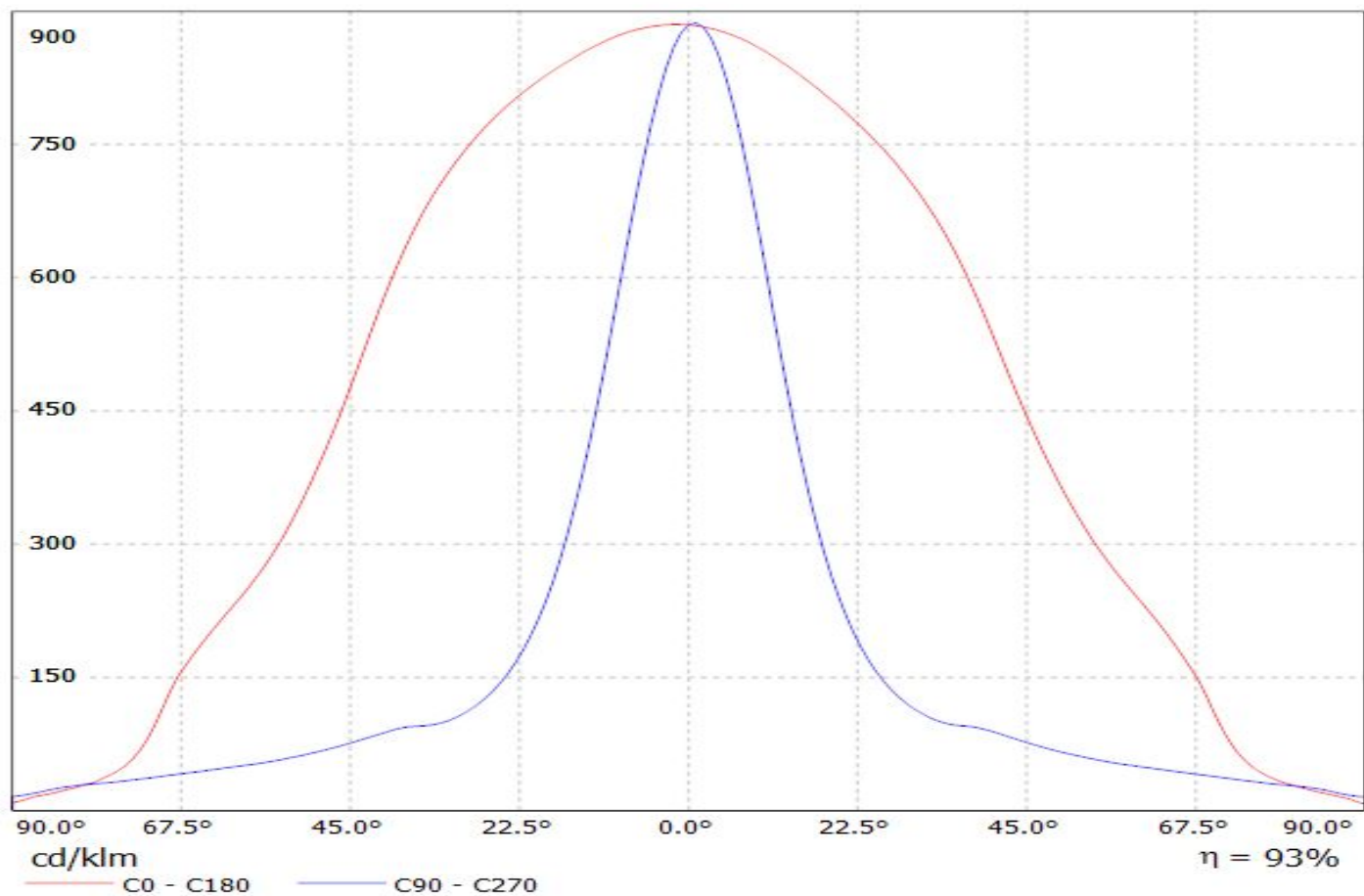


Luminaire: LEDiL Oy CS14597_HB-IP-2X6-O_(Oslon_Square_EC)

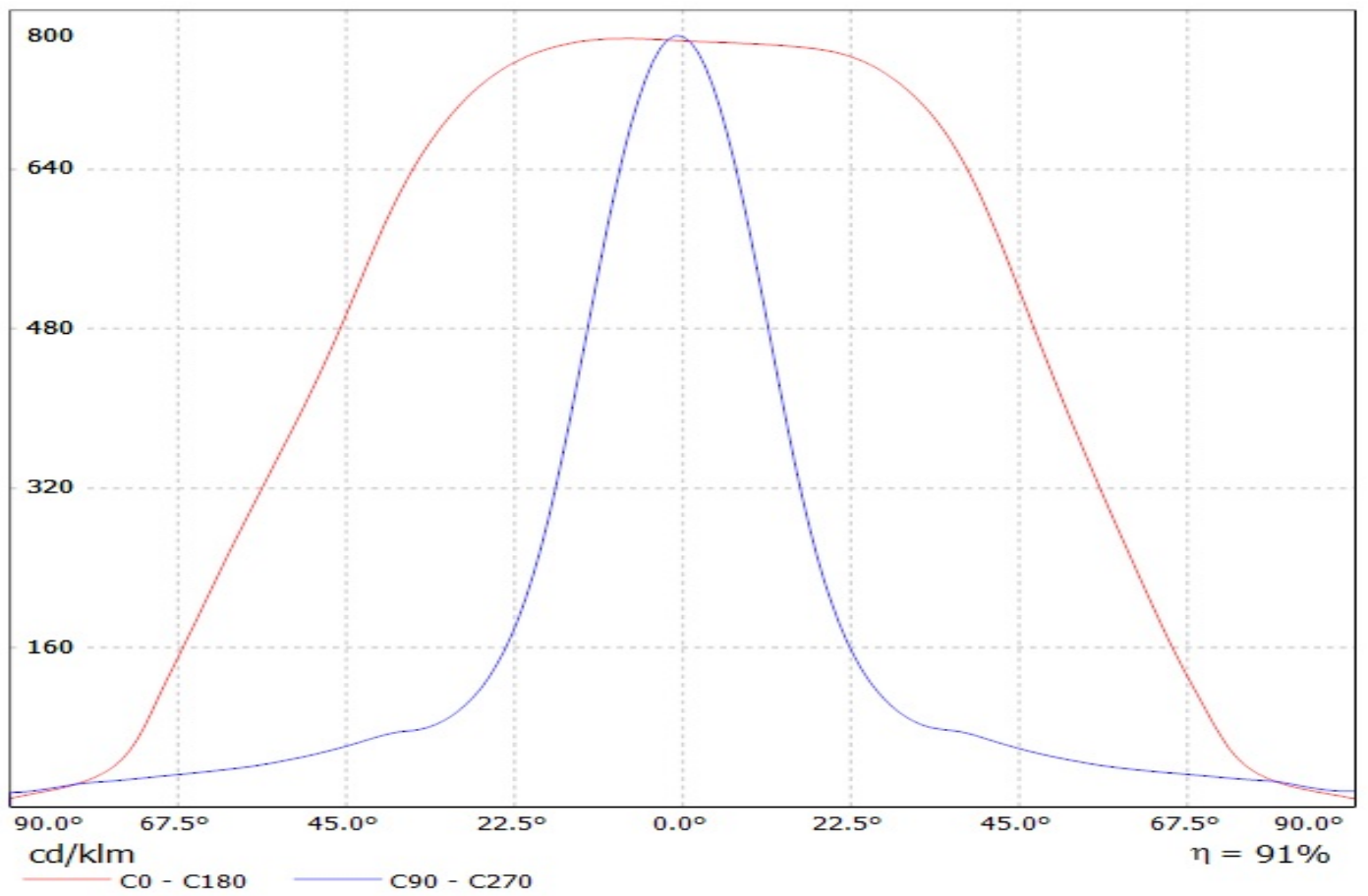
Lamps: 1 x Osram_Oslon_Square_EC_2x6_(LCW CQAR.EC-MQMS-5R8T-35)_948.673lm@250mA_P=8.85466W_I=0.2498A



Luminaire: LEDiL Oy CS14597_HB-IP-2X6-O_(SSL80)
Lamps: 1 x SSL80_1292.29lm@250mA_P=8.5574W_I=0.250A

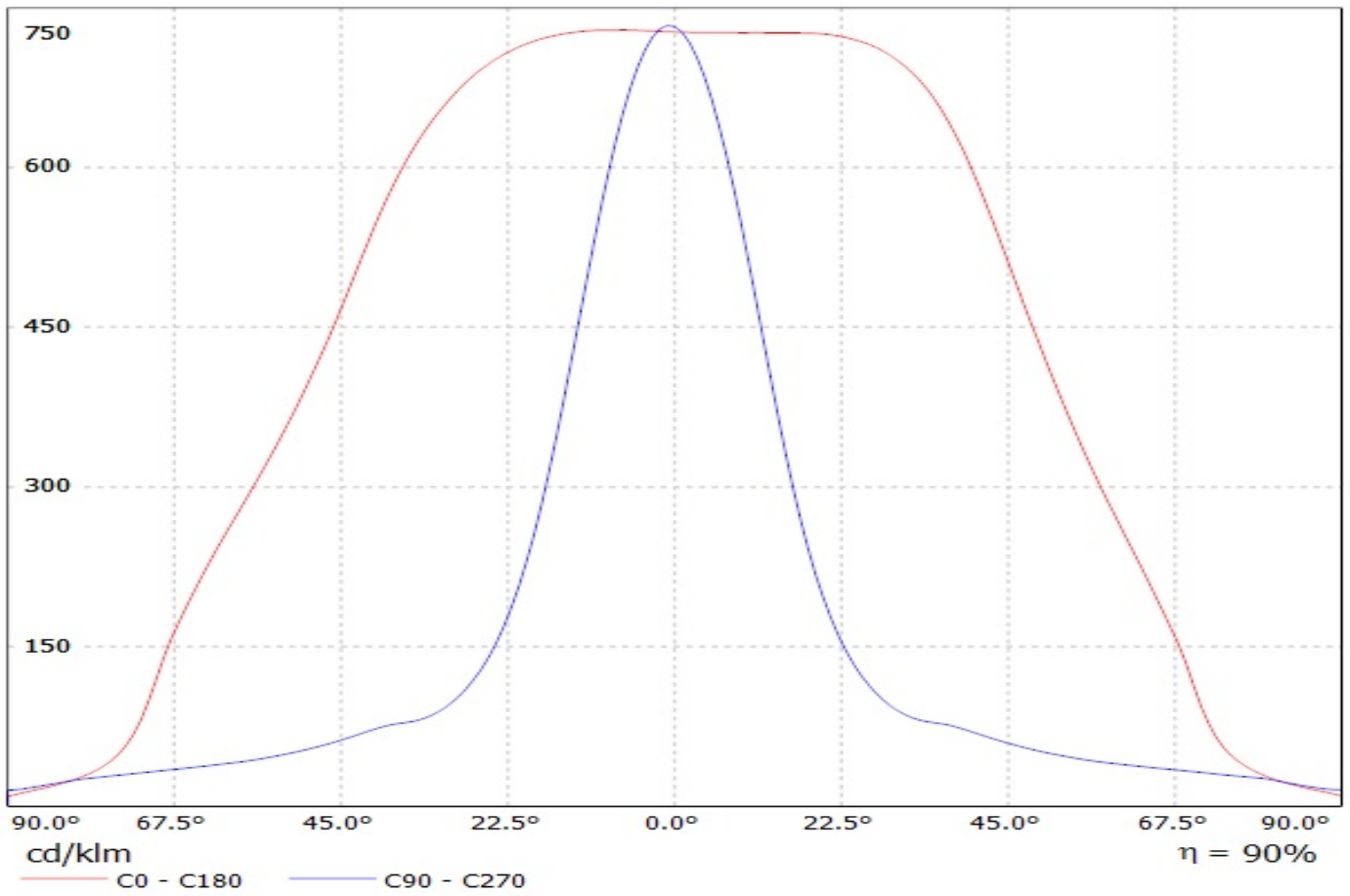


Luminaire: LEDiL Oy CS14597_HB-IP-2X6-O_(LH351Z)
Lamps: 1 x Samsung_LH351Z_(2X6)_951.129lm@250mA_P=8.7495W_I=0.2499A



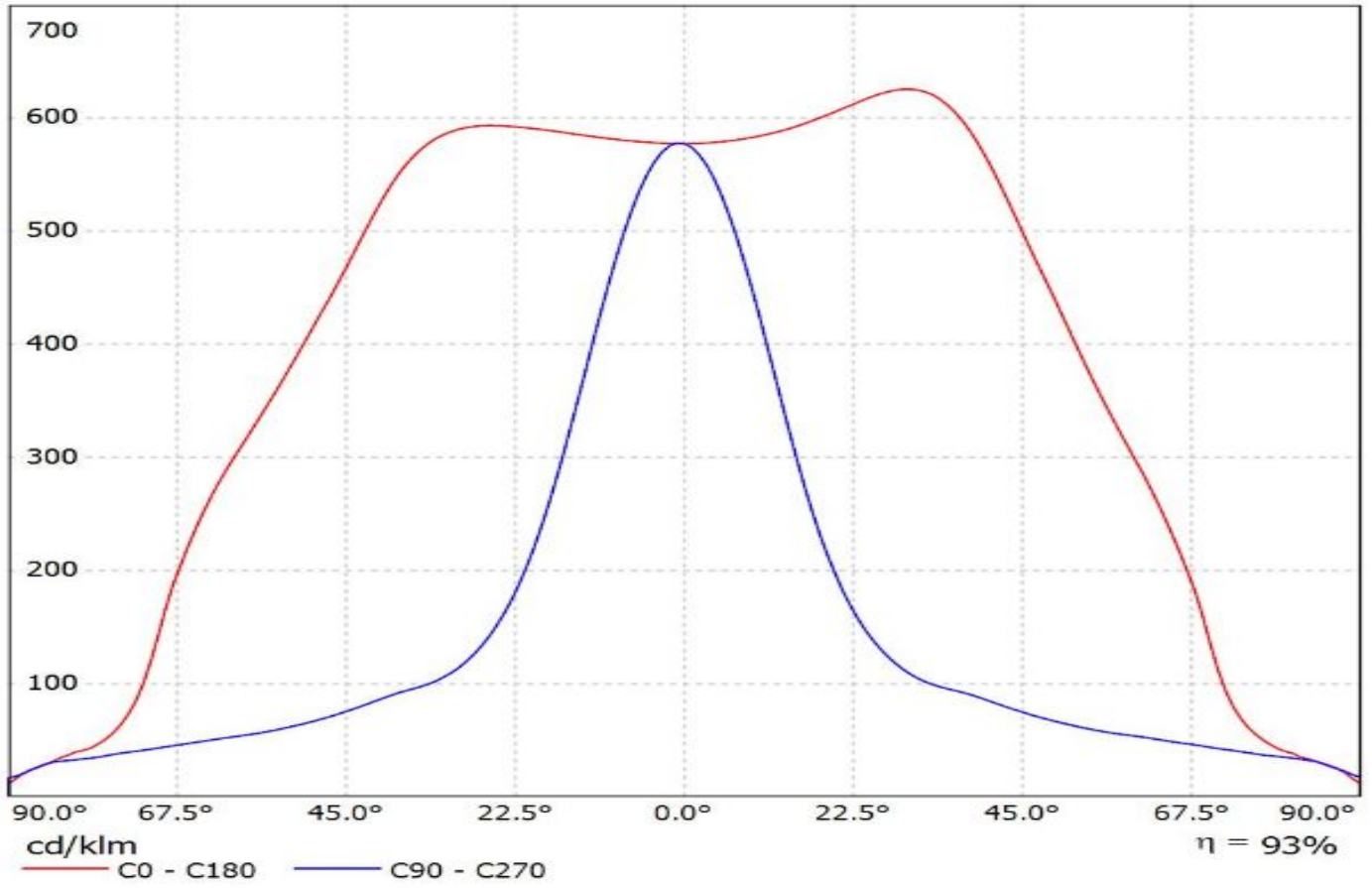
Luminaire: LEDiL Oy CS14597_HB-IP-2X6-O_(Z5M1)

Lamps: 1 x Seoul_Z5M1_(2x6)_(SZ5-M1-WW-C8)_1165.11lm@250mA_P=8.58881W_I=0.2499A



Luminaire: Ledil CS14597_HB-IP-2X6-O_(Z8Y22_PLUS)

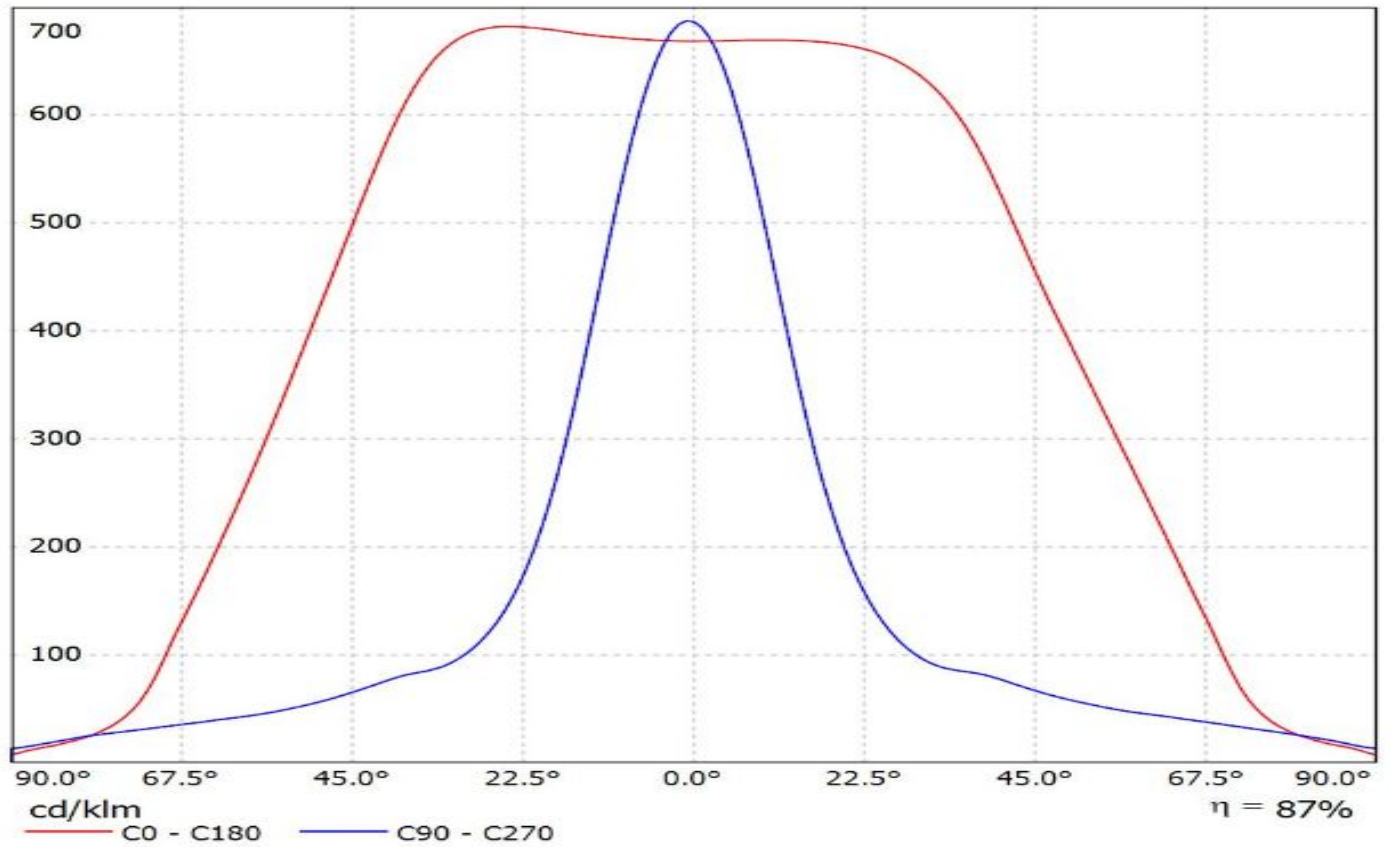
Lamps: 1 x Seoul_Z8Y22_PLUS_2X6_(SZ8-Y22-W0-C7P)1489.65lm@250mA_P=8.30675W_I=0.250A



Ledil CS14597_HB-IP-2X6-O_(TL1L4) / LDC (Linear)

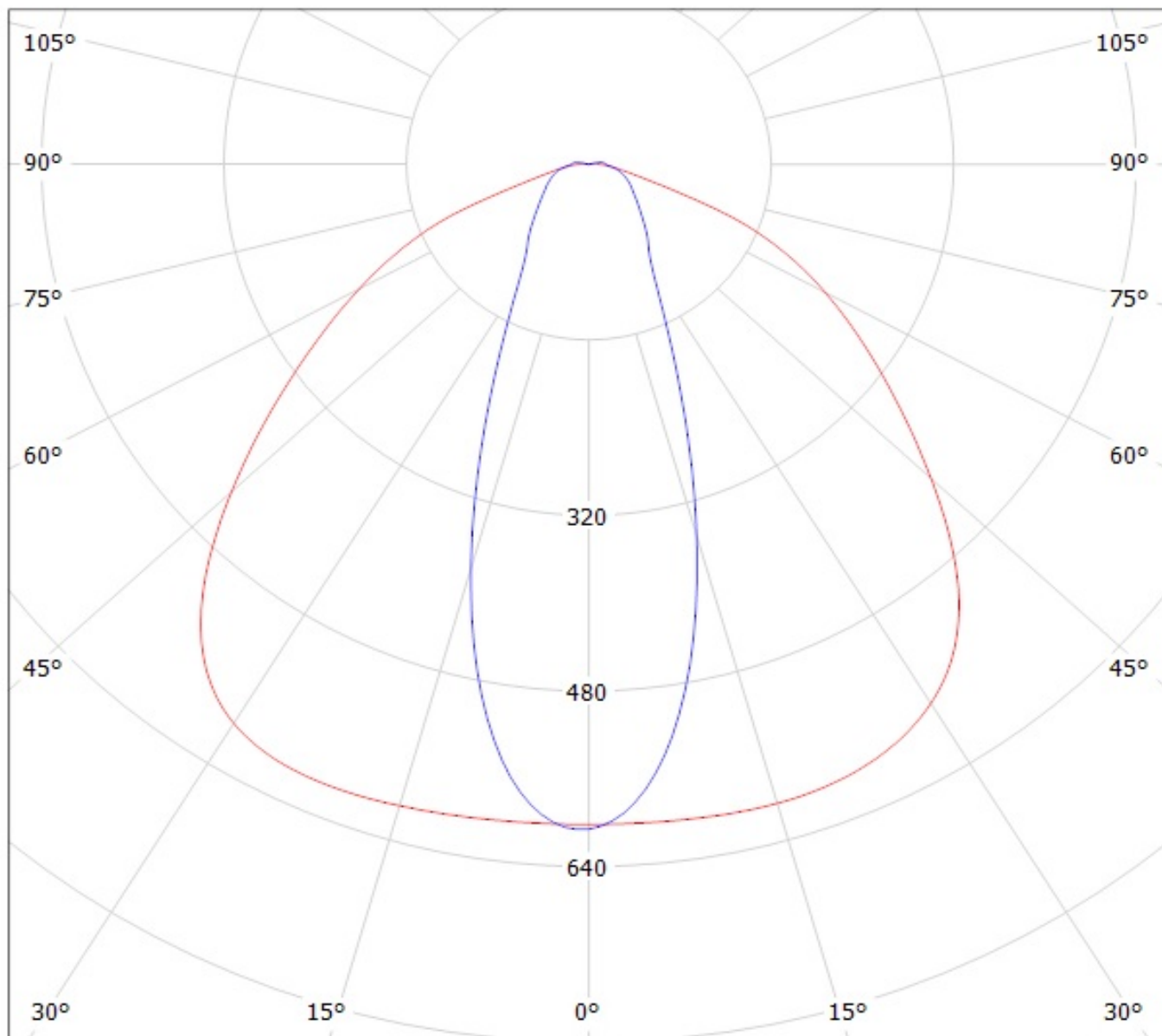
Luminaire: Ledil CS14597_HB-IP-2X6-O_(TL1L4)

Lamps: 1 x Toshiba_TL1L4_2x6_(TL1L4-DW0)_1346.96lm@250mA_CCT=6500K_P=8.5W_I=0.25A



Luminaire: LEDiL Oy CS14597_HB-IP-2X6-O_(XM-L)

Lamps: 1 x Cree_XM_L_2x6_(XMLAWT-00-0000-000LT2OE7)_995.915lm@250mA_P=8.16796W_I=0.2498A



cd/klm

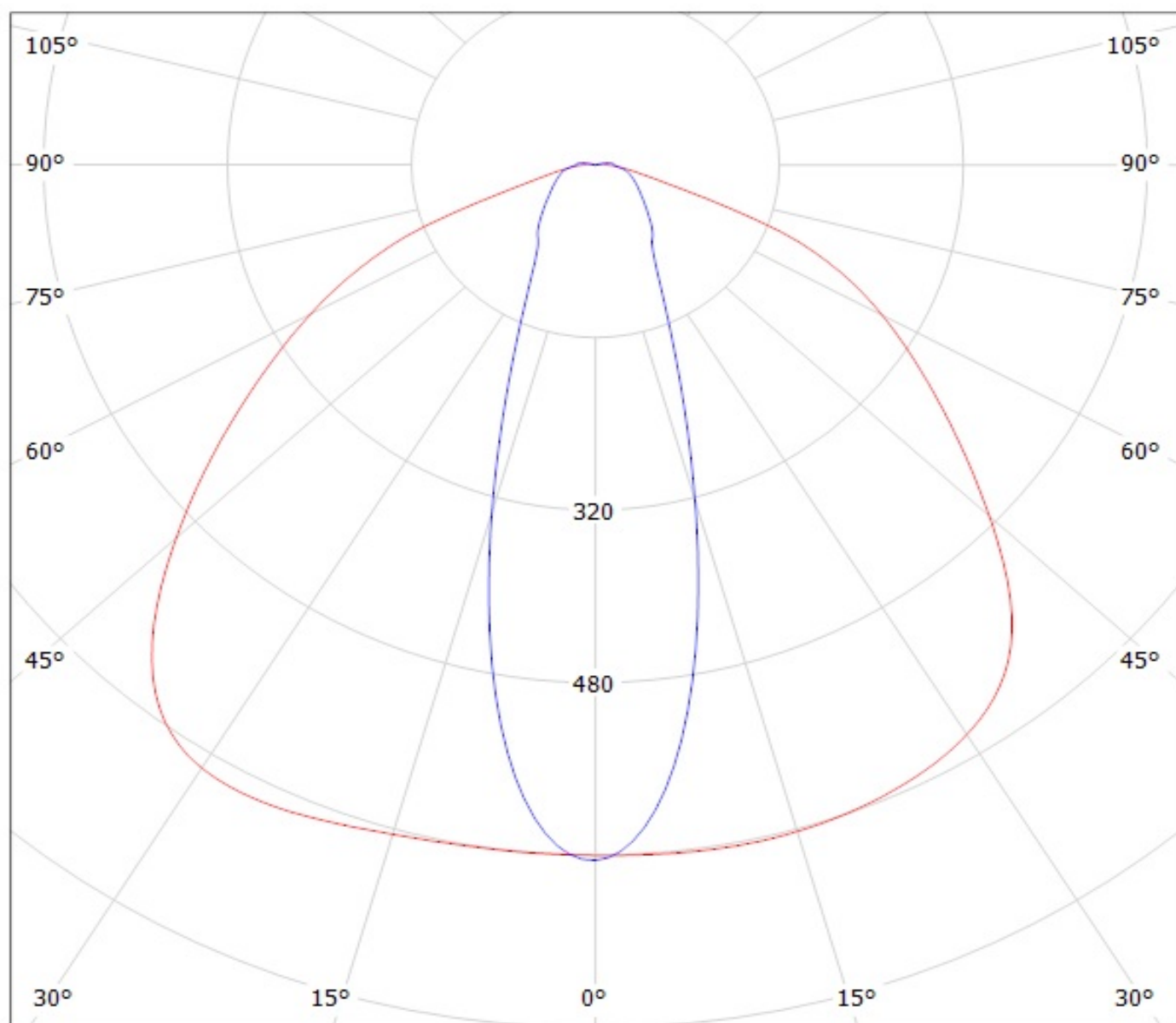
— C0 - C180

— C90 - C270

$\eta = 91\%$

Luminaire: LEDiL Oy CS14597_HB-IP-2X6-O_(XP-G2)

Lamps: 1 x Cree_XP-G2_2x6_1237.61lm@250mA_P=8.57988W_I=0.2498A



cd/klm

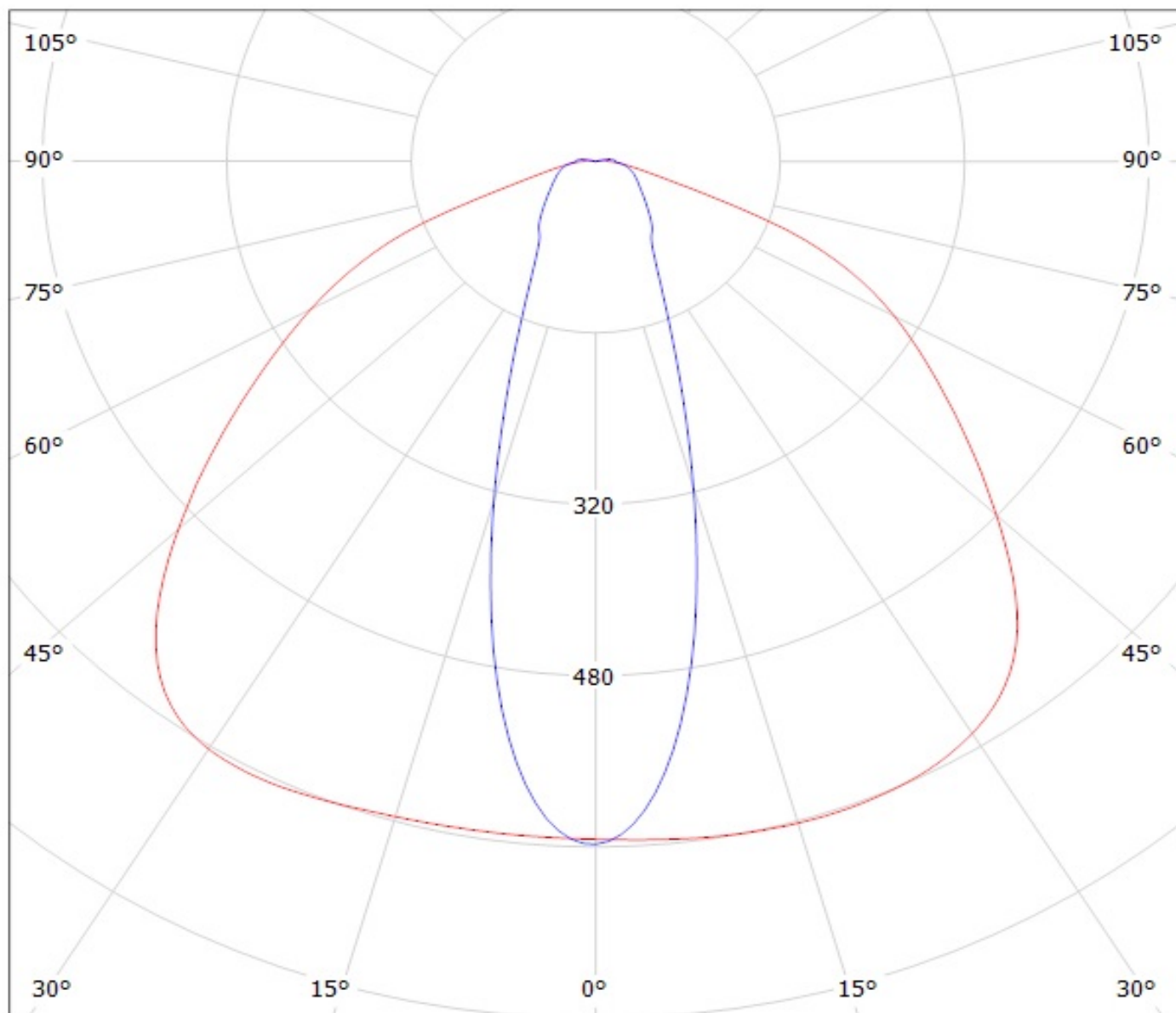
— C0 - C180

— C90 - C270

$\eta = 92\%$

Luminaire: LEDiL Oy CS14597_HB-IP-2X6-O_(XP-G)

Lamps: 1 x Cree_XP-G_2x6_779.527lm@250mA_P=8.54416W_I=0.2498A

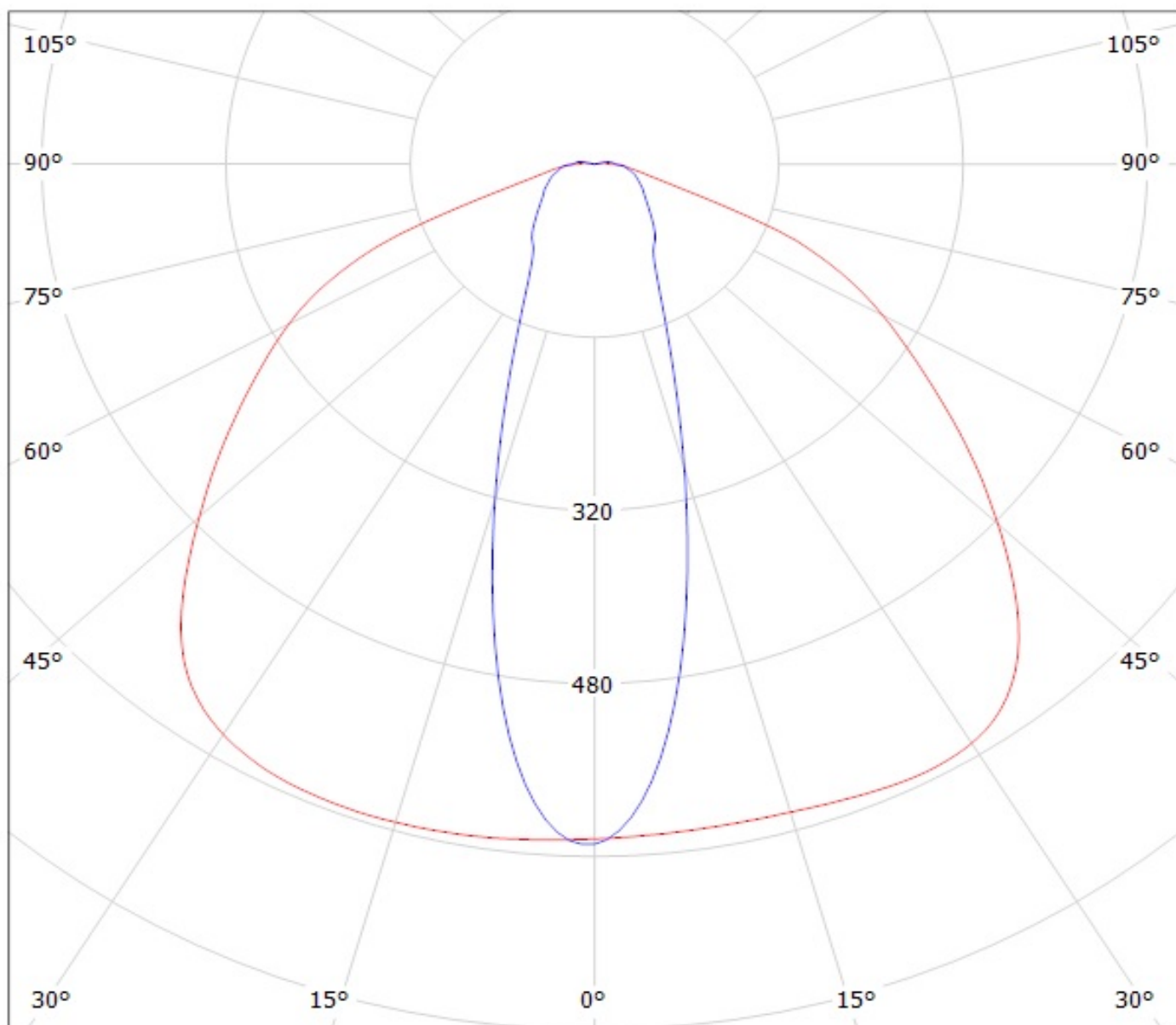


cd/klm

— C0 - C180 — C90 - C270

$\eta = 91\%$

Luminaire: LEDiL Oy CS14597_HB-IP-2X6-O_(XT-E)
Lamps: 1 x Cree_XT-E_2x6_1235.9lm@250mA_P=8.88264W_I=0.2498A



cd/klm

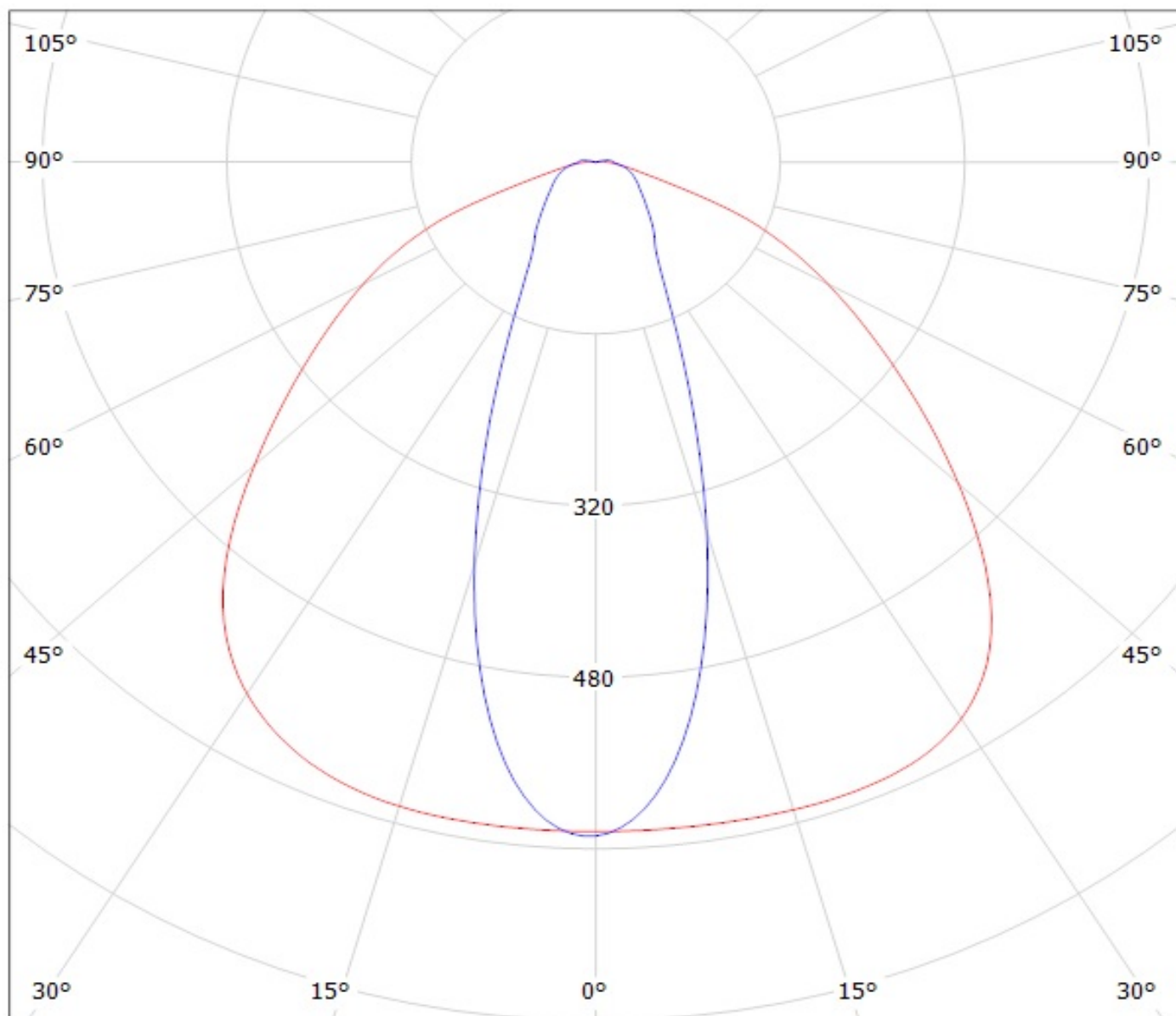
— C0 - C180

— C90 - C270

$\eta = 92\%$

Luminaire: LEDiL Oy CS14597_HB-IP-2X6-O_(XM-L2)

Lamps: 1 x Cree_XM-L2_(XMLBWT-00-0000-000LT30E7)_1173.92lm@250mA_P=8.28212W_I=0.2498A



cd/klm

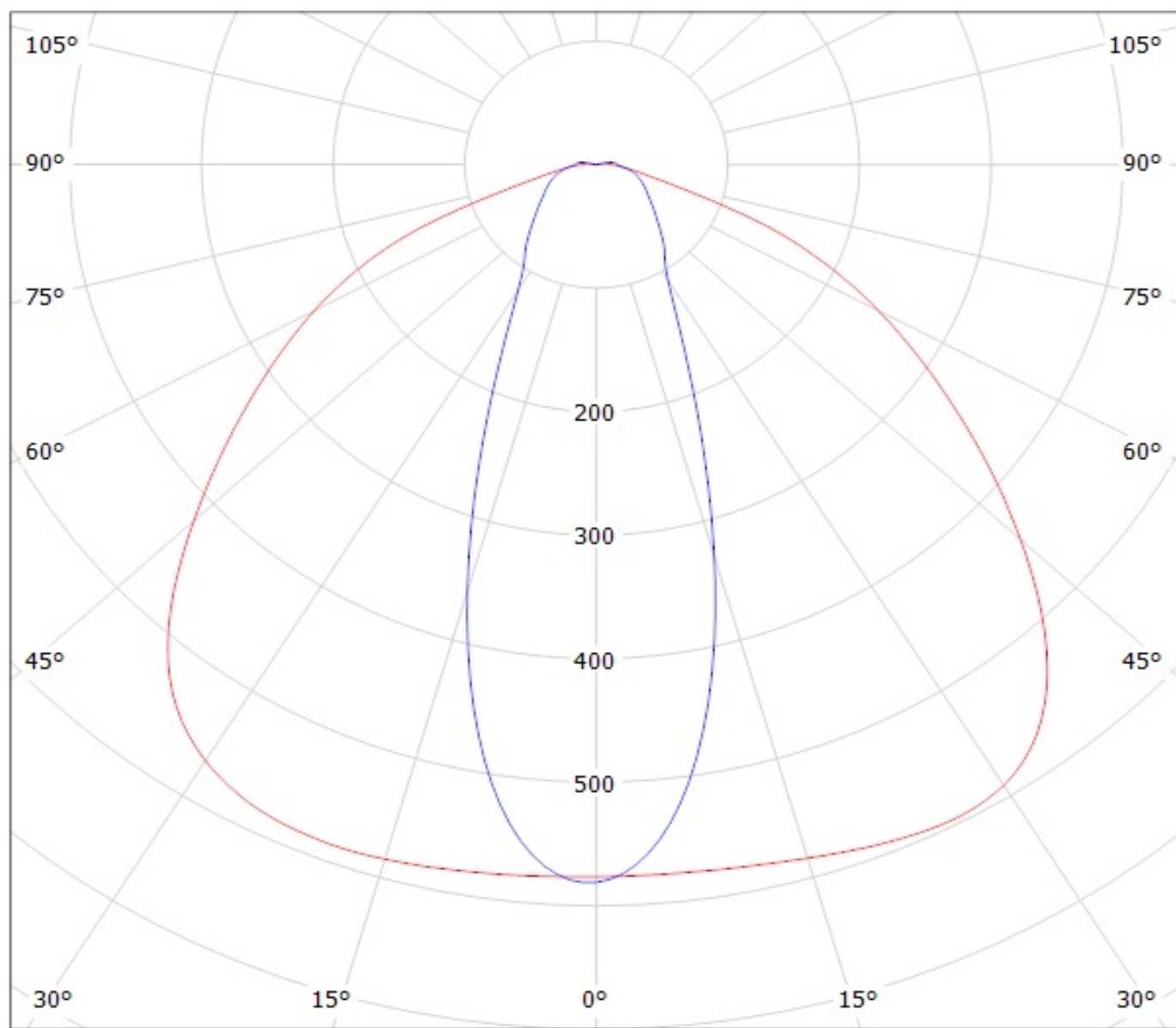
$\eta = 91\%$

— C0 - C180

— C90 - C270

Luminaire: LEDiL Oy CS14597_HB-IP-2X6-O_(XP-L)

Lamps: 1 x Cree_XP-L_2x6_1243.45lm@250mA_P=8.25764W_I=0.2498A



cd/klm

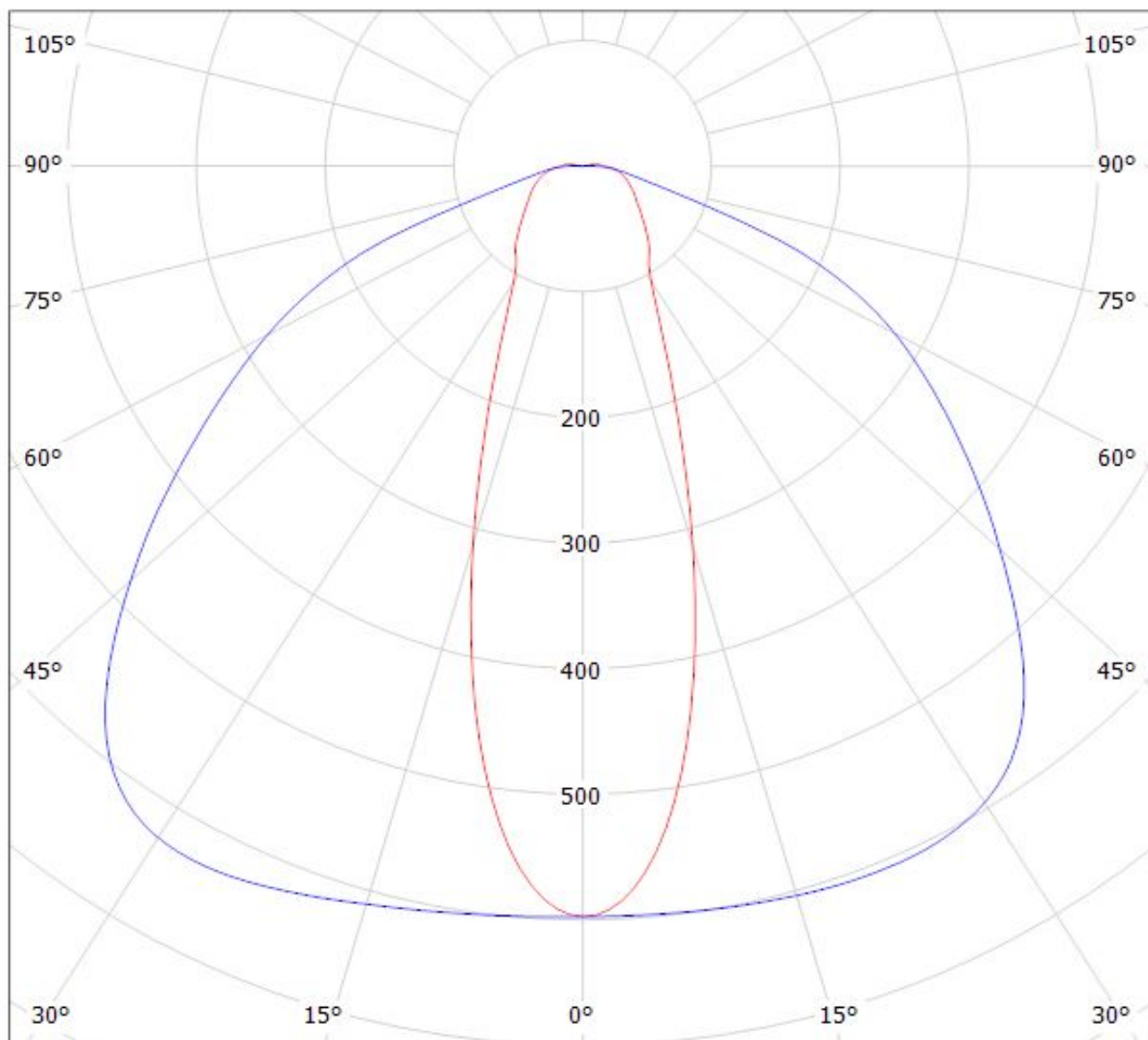
— C0 - C180

— C90 - C270

$\eta = 91\%$

Luminaire: Ledil CS14597_HB-IP-2x6-0_(XP-G3)

Lamps: 1 x Cree_XP-G3_6x2_(XPGDWT-B1-6C1-S3-0-01)_1521.26lm@250mA_P=8.253W_I=0.25A

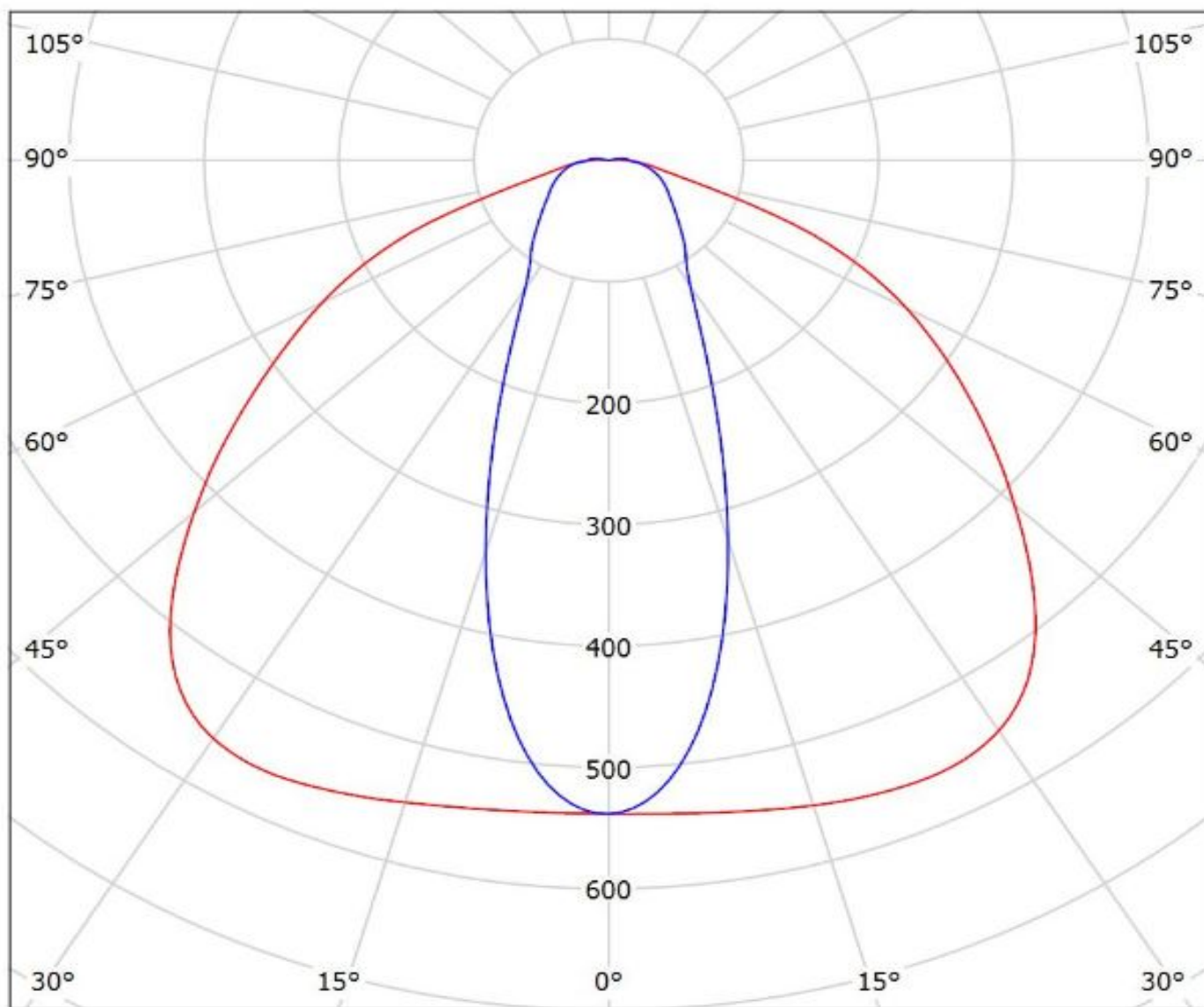


cd/klm

$\eta = 92\%$

— C0 - C180 — C90 - C270

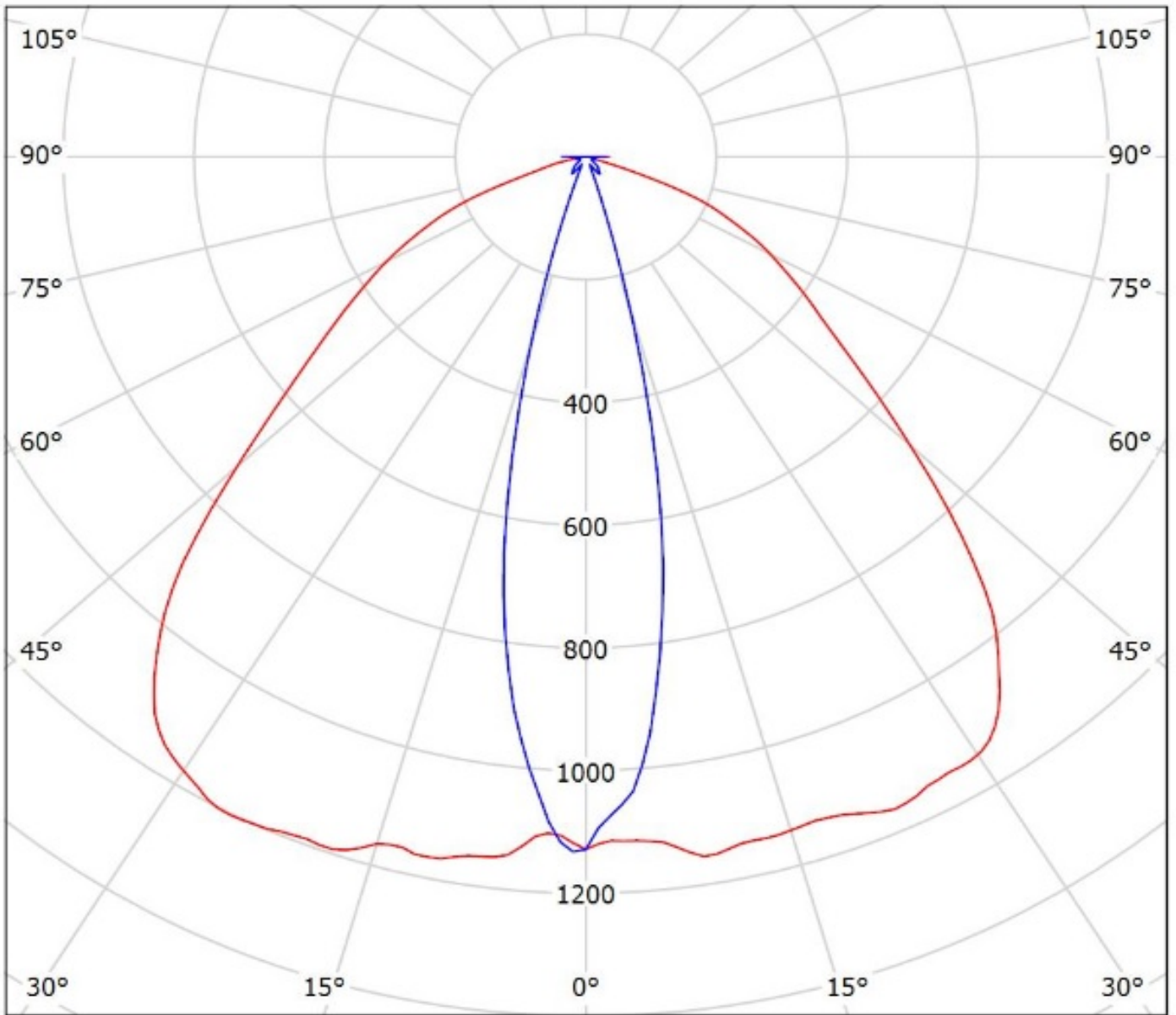
Luminaire: Ledil CS14597_HB-IP-2X6-O_(XP-L2)
Lamps: 1 x Cree_XP-L2x12_(XPGBWT-H1-3B0-R5-0-01)
1666.32lm@250mA_CCT=5000_P=8.239W_I=0.25A



cd/klm
— C0 - C180 — C90 - C270

$\eta = 92\%$

Luminaire: Ledil Oy CS14597_HB-IP-2X6-O_(H35C1)_SIMULATED
Lamps: 1 x LG H35C1



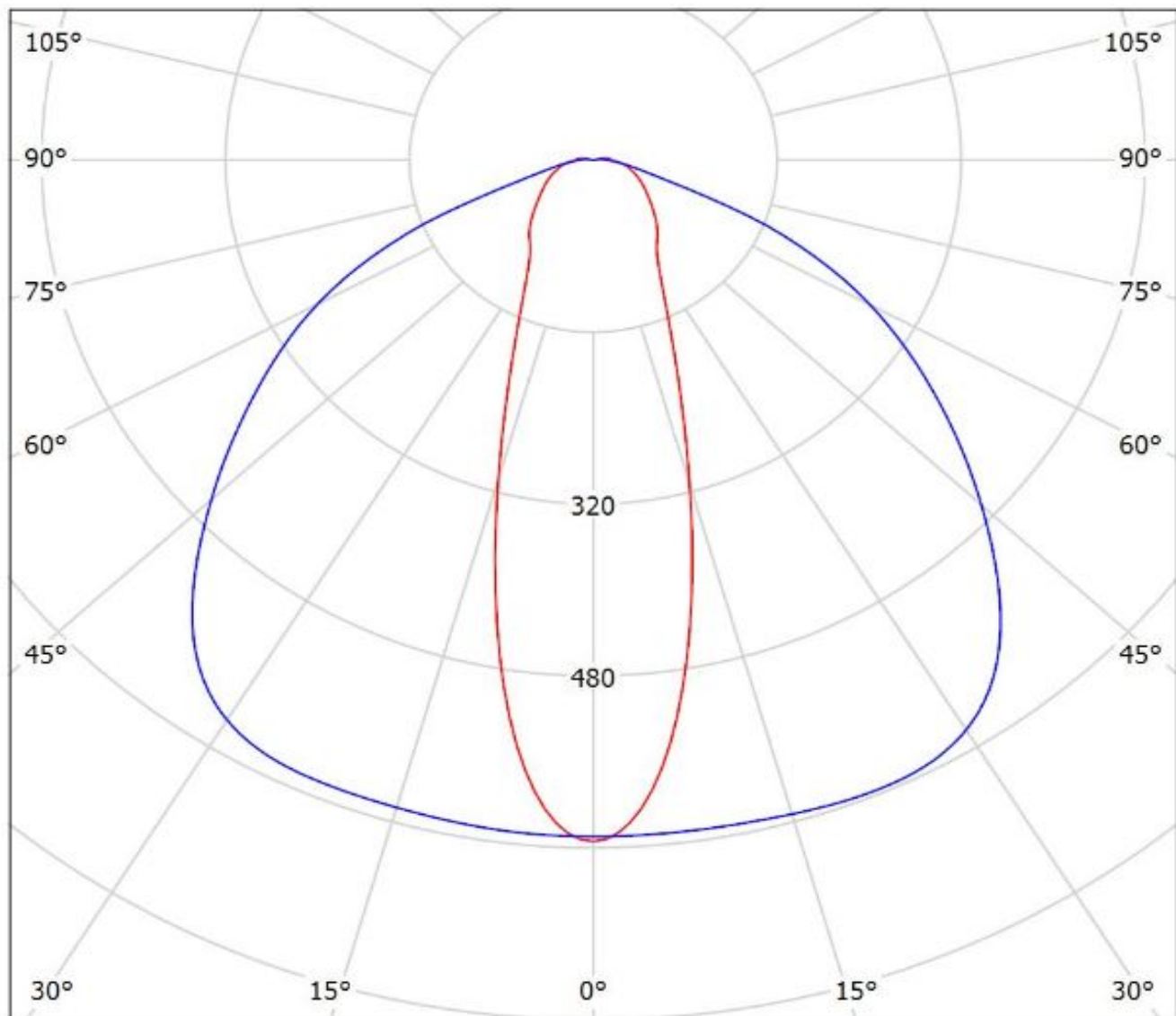
cd/klm

— C0 - C180 — C90 - C270

$\eta = 95\%$

Luminaire: LEDiL Oy CS14597_HB-IP-2X6-O_(Luxeon_T)_2

Lamps: 1 x Luxeon_T_2x6_(LXH8-FW30)_1041.23lm@250mA_P=8.37779W_I=249.8mA



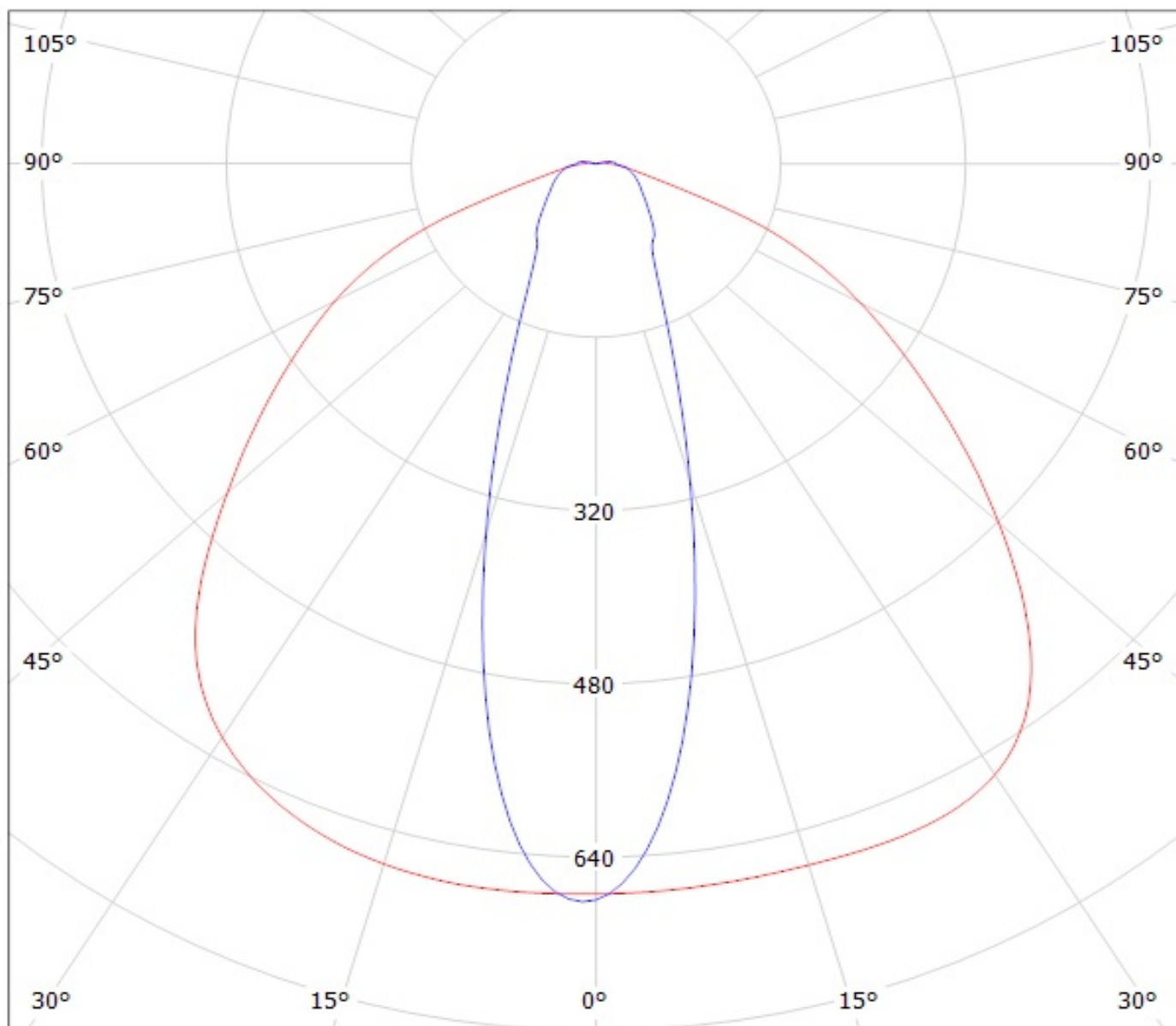
cd/klm

— C0 - C180 — C90 - C270

$\eta = 91\%$

Luminaire: LEDiL Oy CS14597_HB-IP-2X6-O_(Luxeon_R)

Lamps: 1 x Philips_Lumileds_Luxeon_R_2x6_848.853lm@250mA_P=9.03352W_I=0.2498A



cd/klm

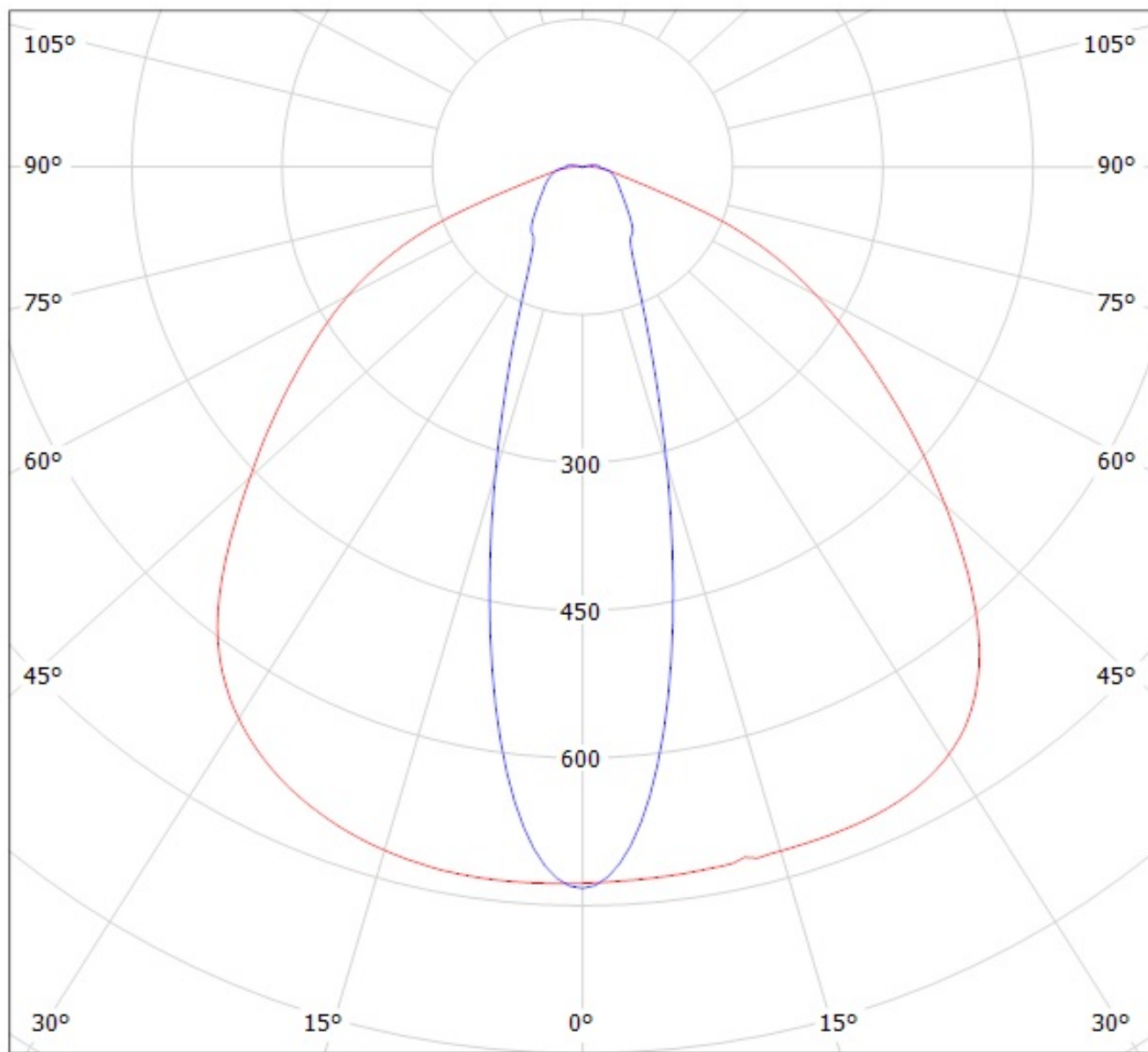
— C0 - C180

— C90 - C270

$\eta = 91\%$

Luminaire: LEDiL Oy CS14597_HB-IP-2X6-O_(Luxeon_Rebel)

Lamps: 1 x Philips_Lumileds_Luxeon_Rebel_2x6_(LXM8-PW30)_745.574lm@250mA_P=8.36755W_I=0.2498A



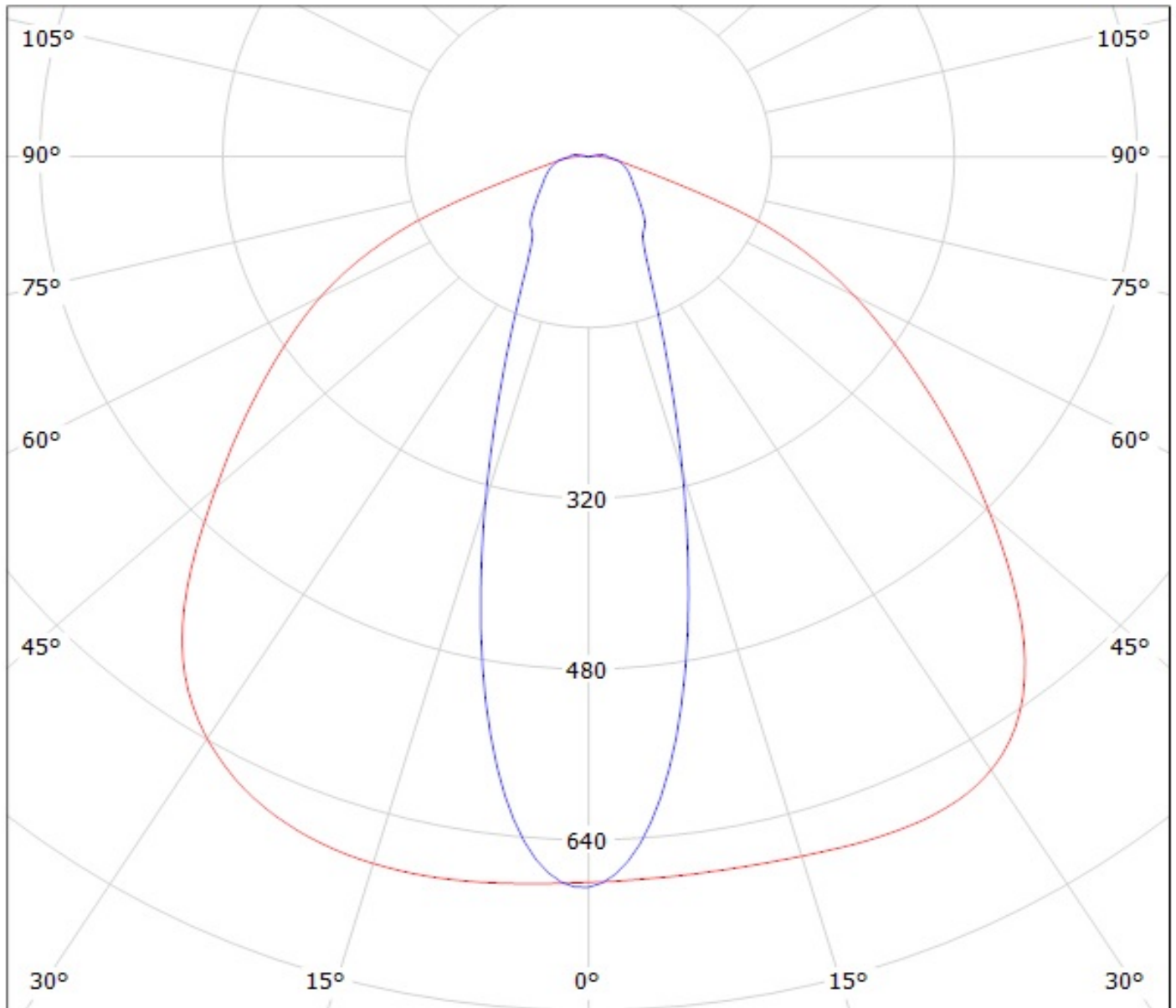
cd/klm

$\eta = 91\%$

— C0 - C180 — C90 - C270

Luminaire: LEDiL Oy CS14597_HB-IP-2X6-O_(Luxeon_Rebel_ES)

Lamps: 1 x Philips_Lumileds_Luxeon_Rebel_ES_2x6_1132.87lm@250mA_P=8.30967W_I=0.2499A



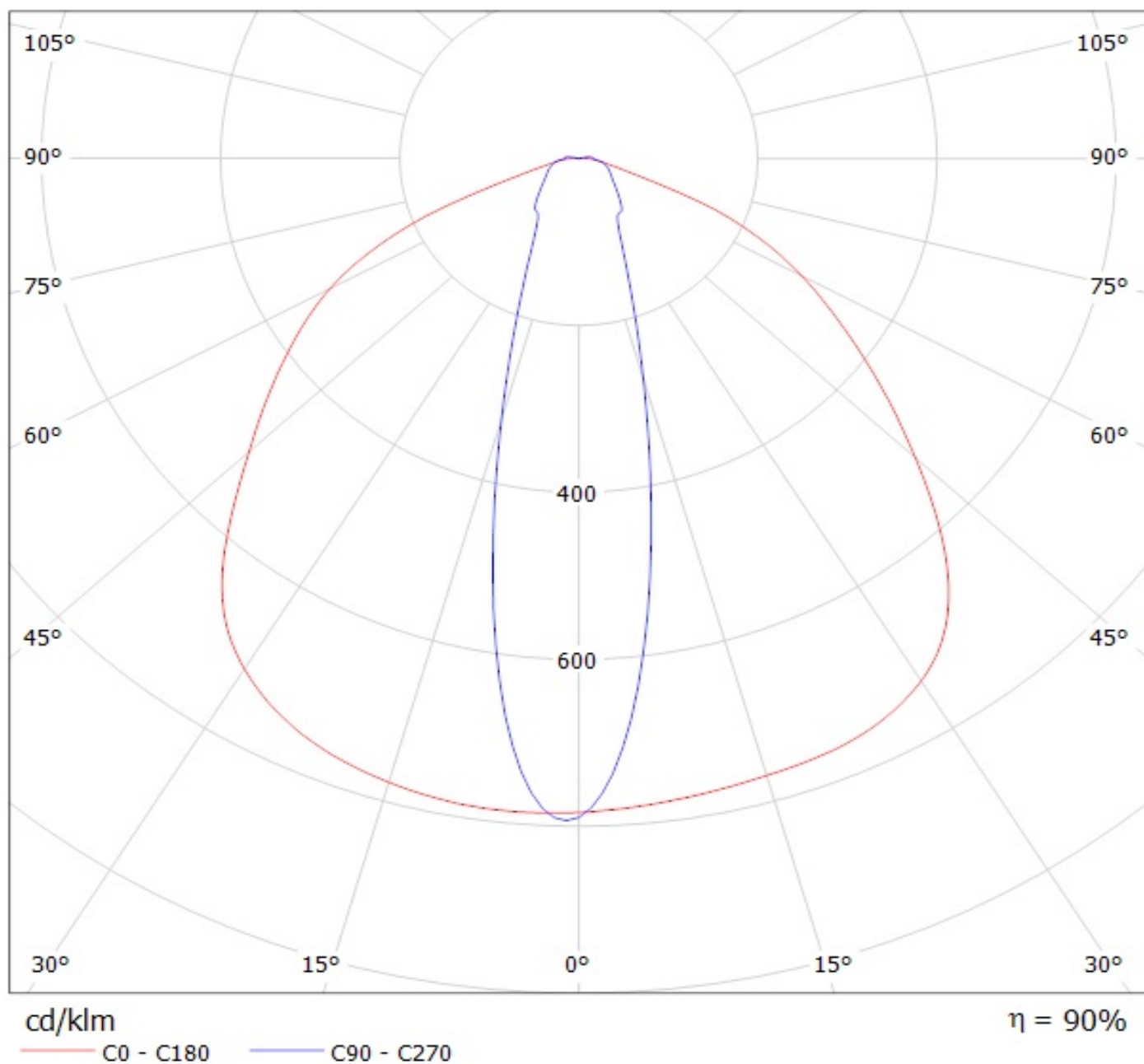
cd/klm

— C0 - C180 — C90 - C270

$\eta = 91\%$

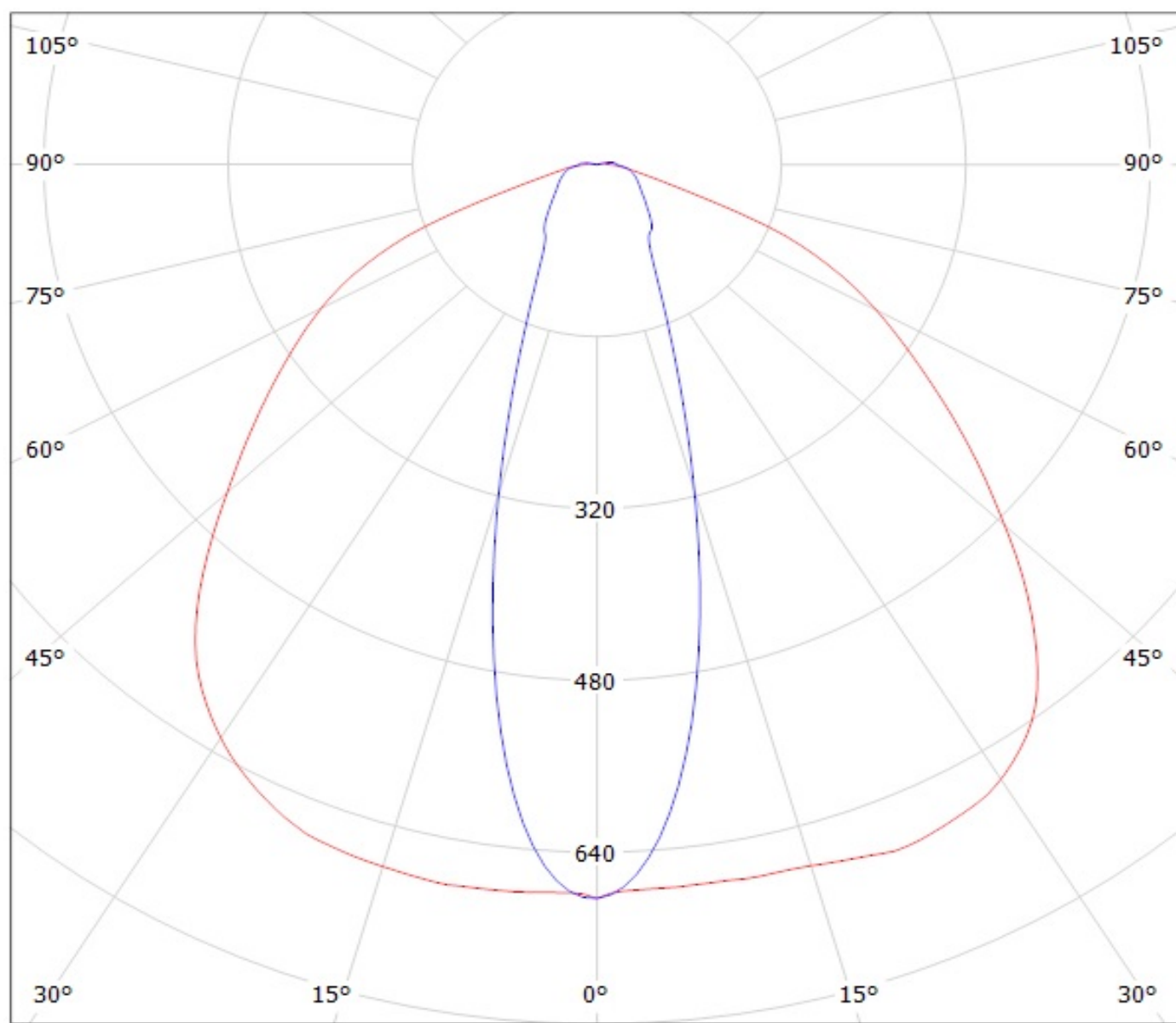
Luminaire: LEDiL Oy CS14597_HB-IP-2X6-O_(Luxeon_Z_ES)

Lamps: 1 x Philips_Lumileds_Luxeon_Z_ES_2x6_977.042lm@250mA_P=8.33092W_I=0.2499A



Luminaire: LEDiL Oy CS14597_HB-IP-2X6-O_(Luxeon_TX)

Lamps: 1 x Philips_Lumileds_Luxeon_TX_2x6_1294.69lm@250mA_P=8.32967W_I=0.2499A



cd/klm

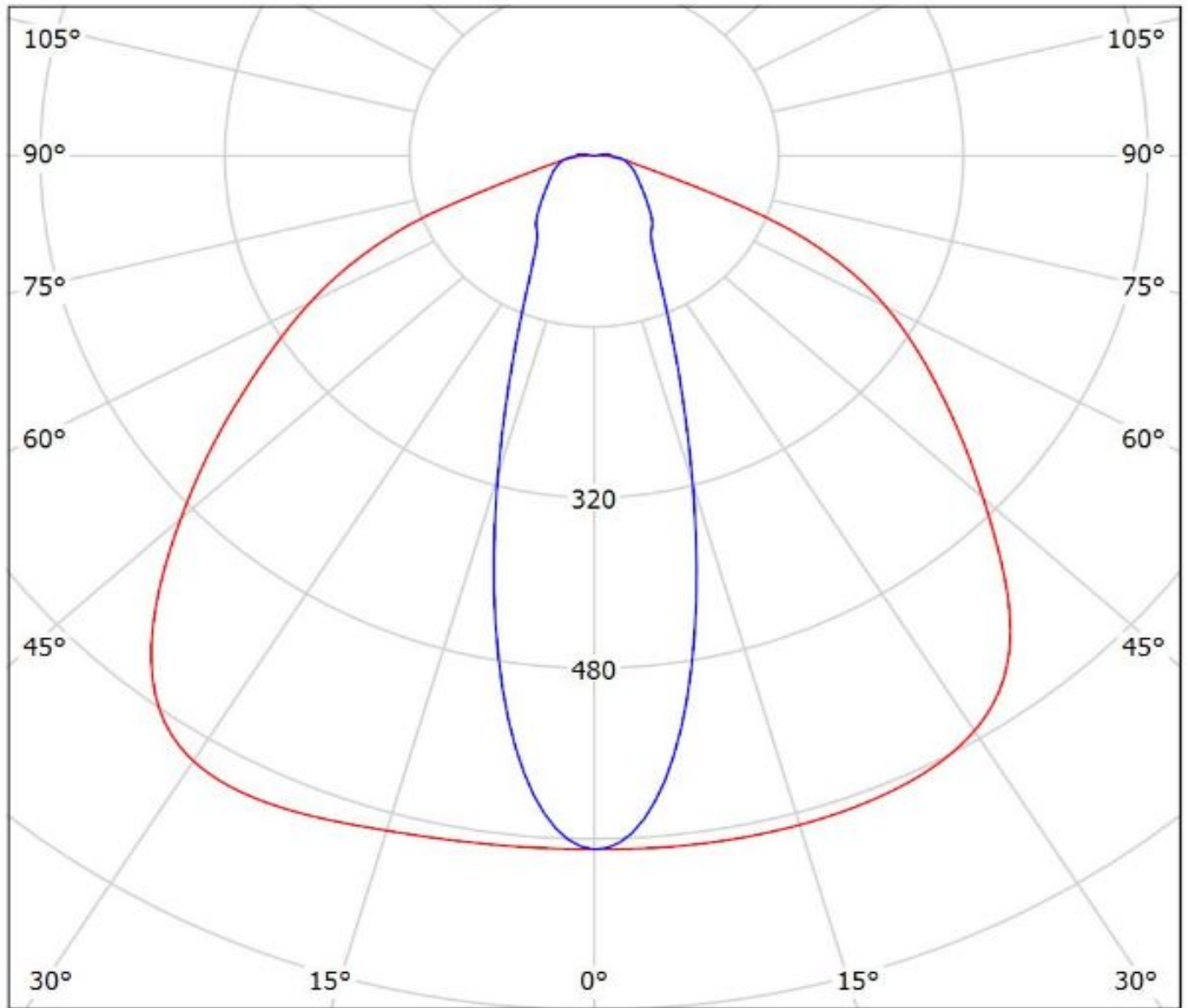
— C0 - C180

— C90 - C270

$\eta = 90\%$

Luminaire: Ledil CS14597_HB-IP-2X6-O_(XR-TX)

Lamps: 1 x Luxeon_XR-TX_1376.41lm@250mA_P=8.3920W_I=0.250A



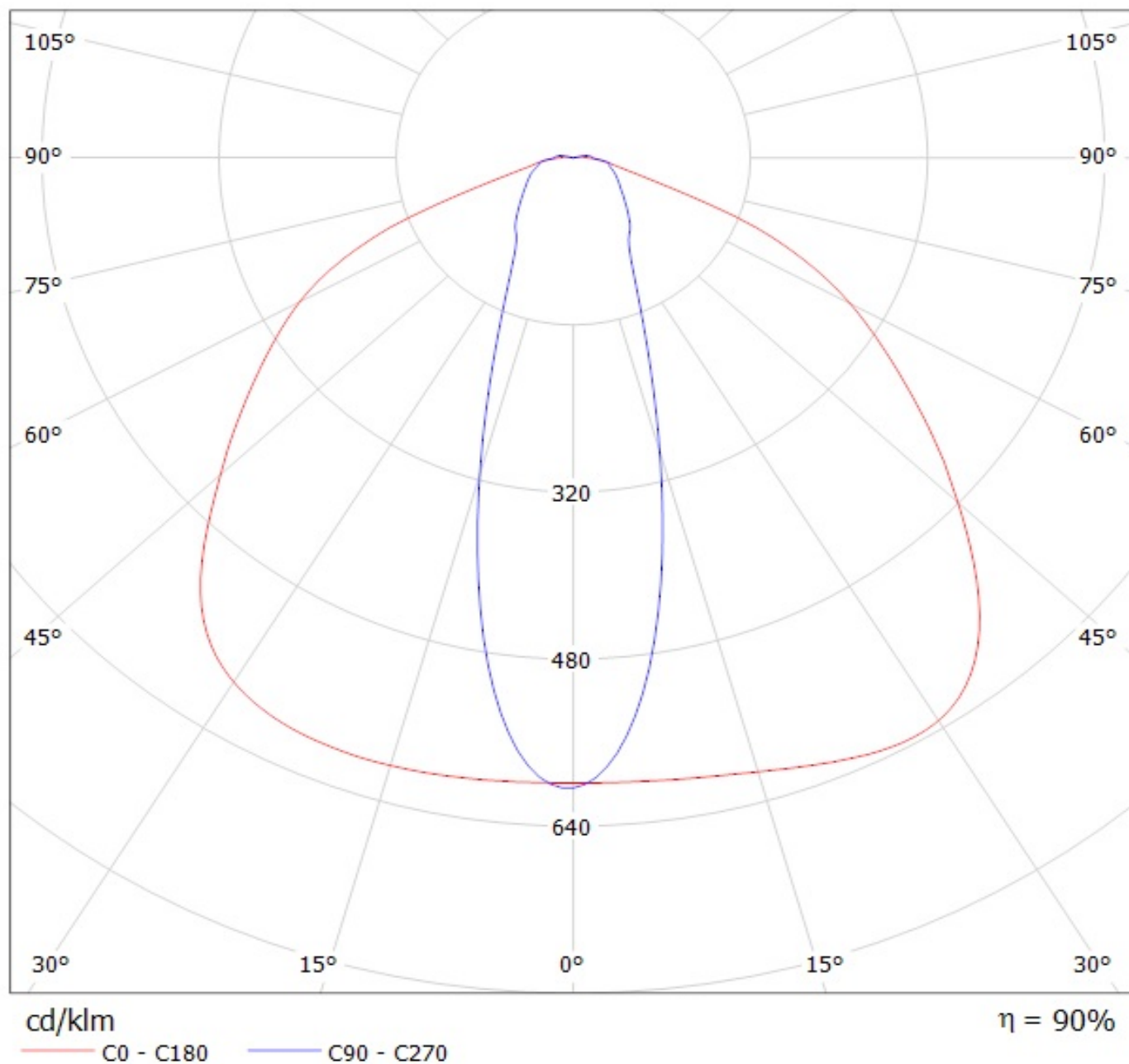
cd/klm

— C0 - C180 — C90 - C270

$\eta = 91\%$

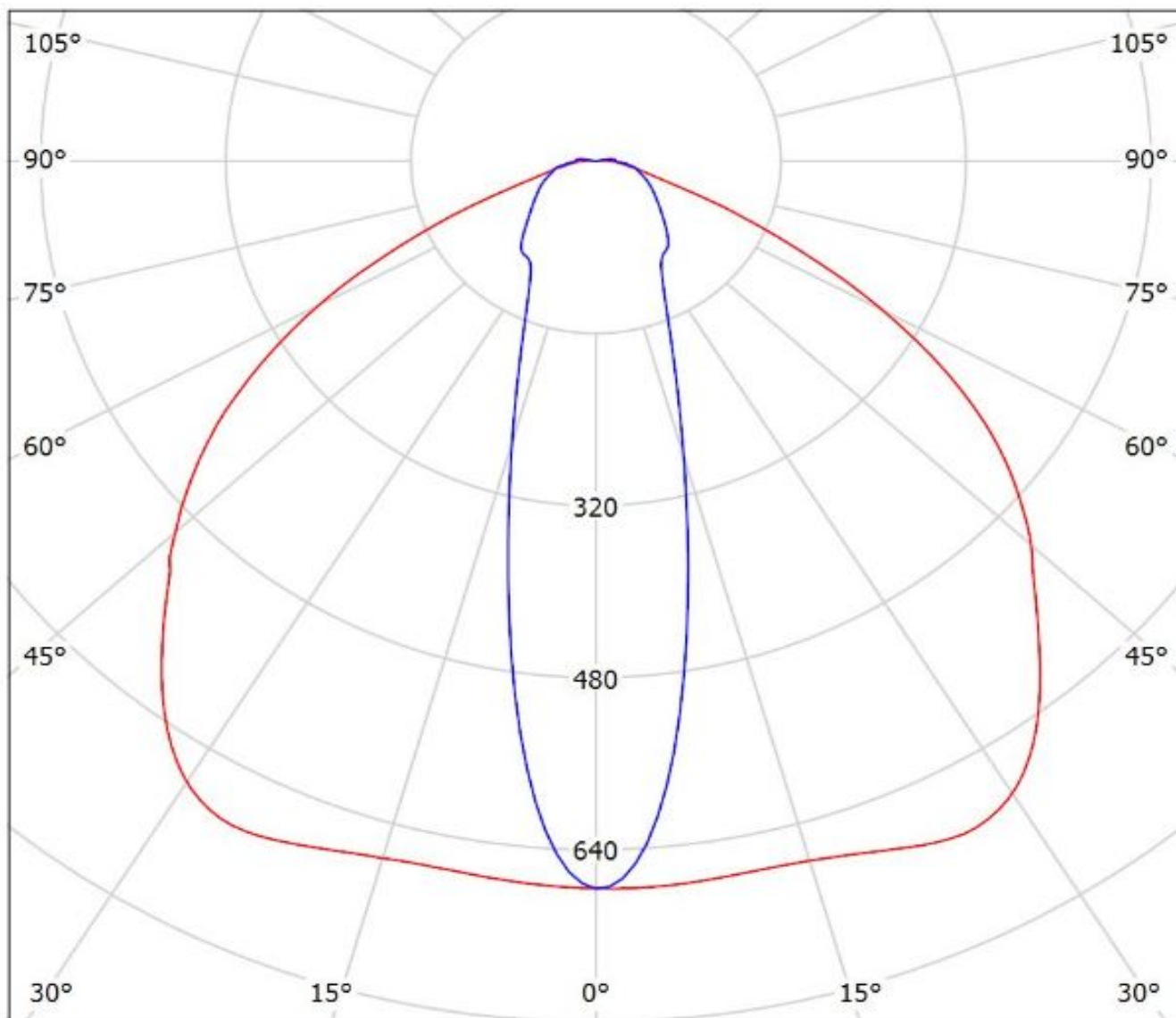
Luminaire: LEDiL Oy CS14597_HB-IP-2X6-O_(NVSxx19B)

Lamps: 1 x Nichia_NVsxx19B_(NVSL219BT)_2x6_1264.03lm@250mA_P=8.31559W_I=0.2498A



Luminaire: Ledil CS14597_HB-IP-2X6-O_(Nichia_E21)

Lamps: 1 x Nichia_NVSW21A_602.725lm@600mA_P=3.5006W_I=0.600A



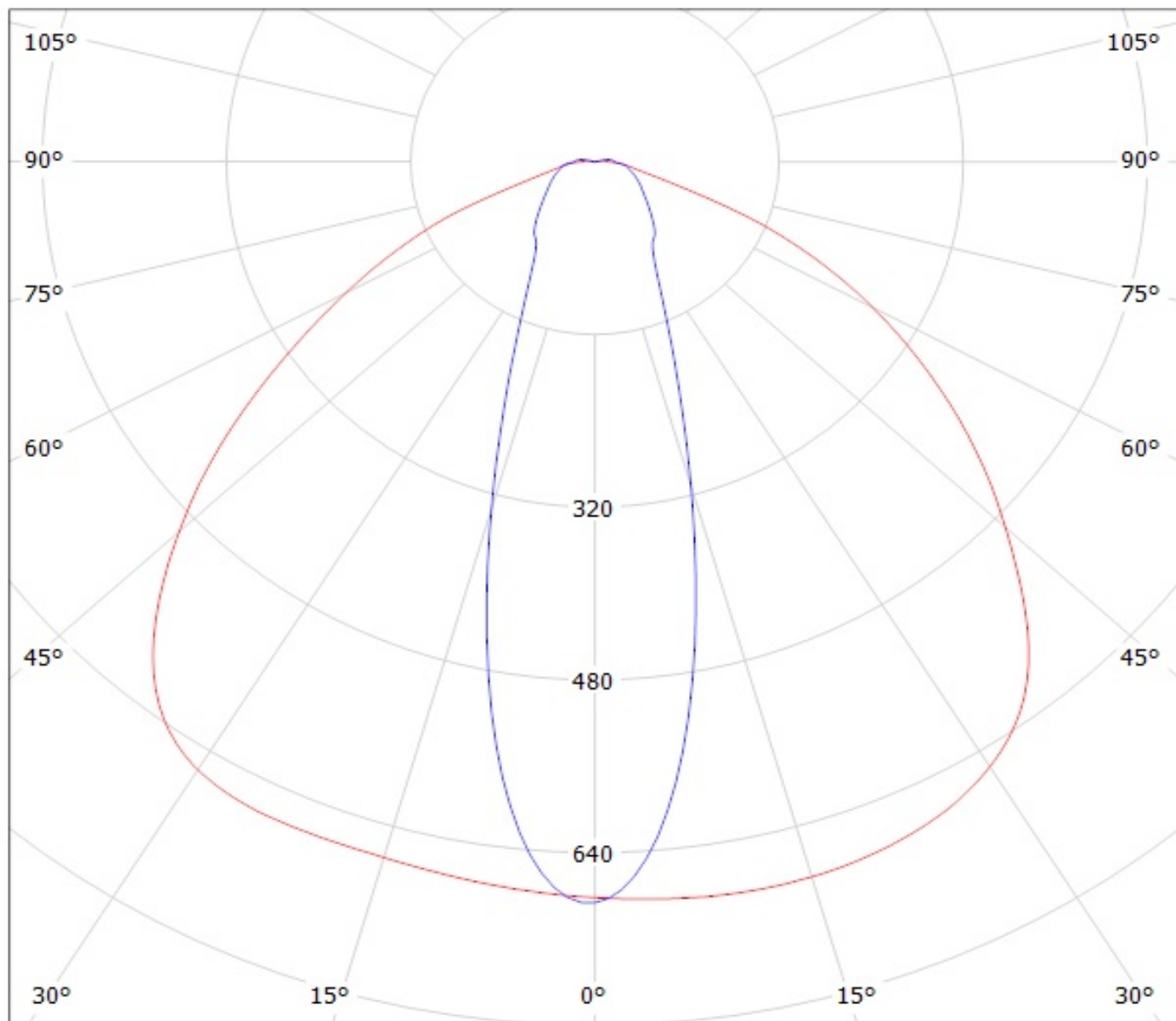
cd/klm

— C0 - C180 — C90 - C270

$\eta = 91\%$

Luminaire: LEDiL Oy CS14597_HB-IP-2X6-O_(Oslon_Square_PC)

Lamps: 1 x Osram_Oslon_Square_PC_2x6_1225.05lm@250mA_P=8.80595W_I=0.2498A



cd/klm

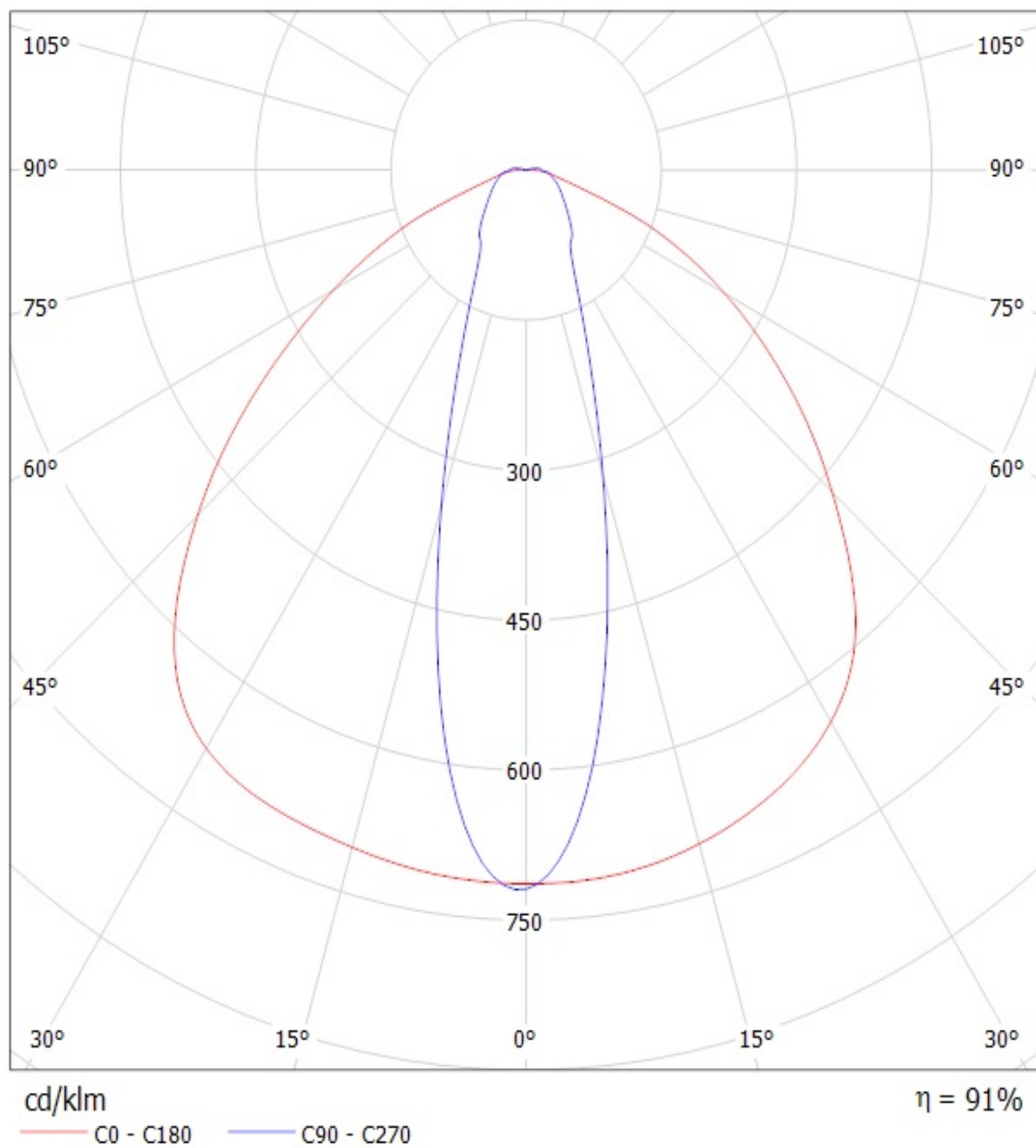
$\eta = 92\%$

— C0 - C180

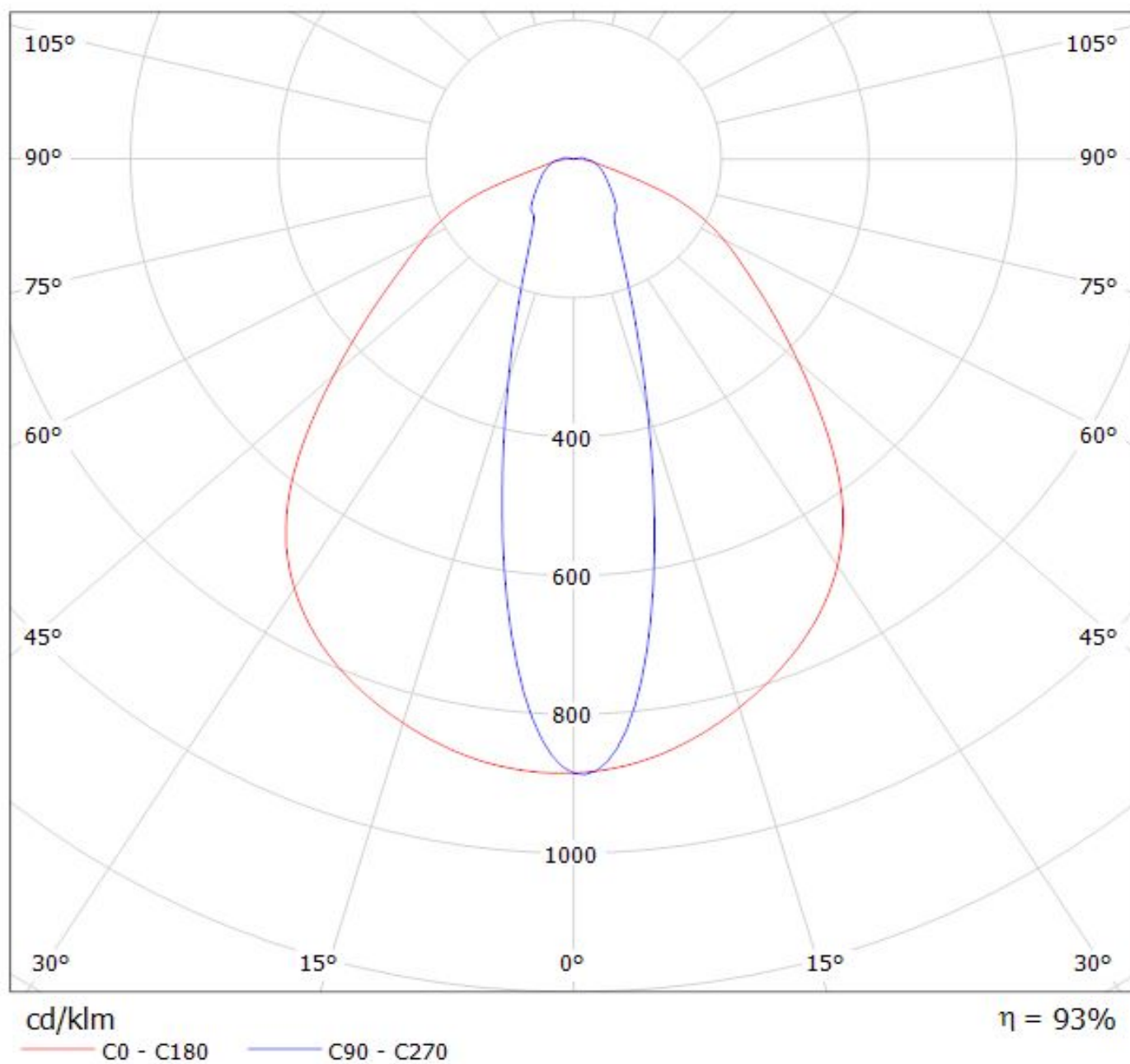
— C90 - C270

Luminaire: LEDiL Oy CS14597_HB-IP-2X6-O_(Oslon_Square_EC)

Lamps: 1 x Osram_Oslon_Square_EC_2x6_(LCW CQAR.EC-MQMS-5R8T-35)_948.673lm@250mA_P=8.85466W_I=0.2498A

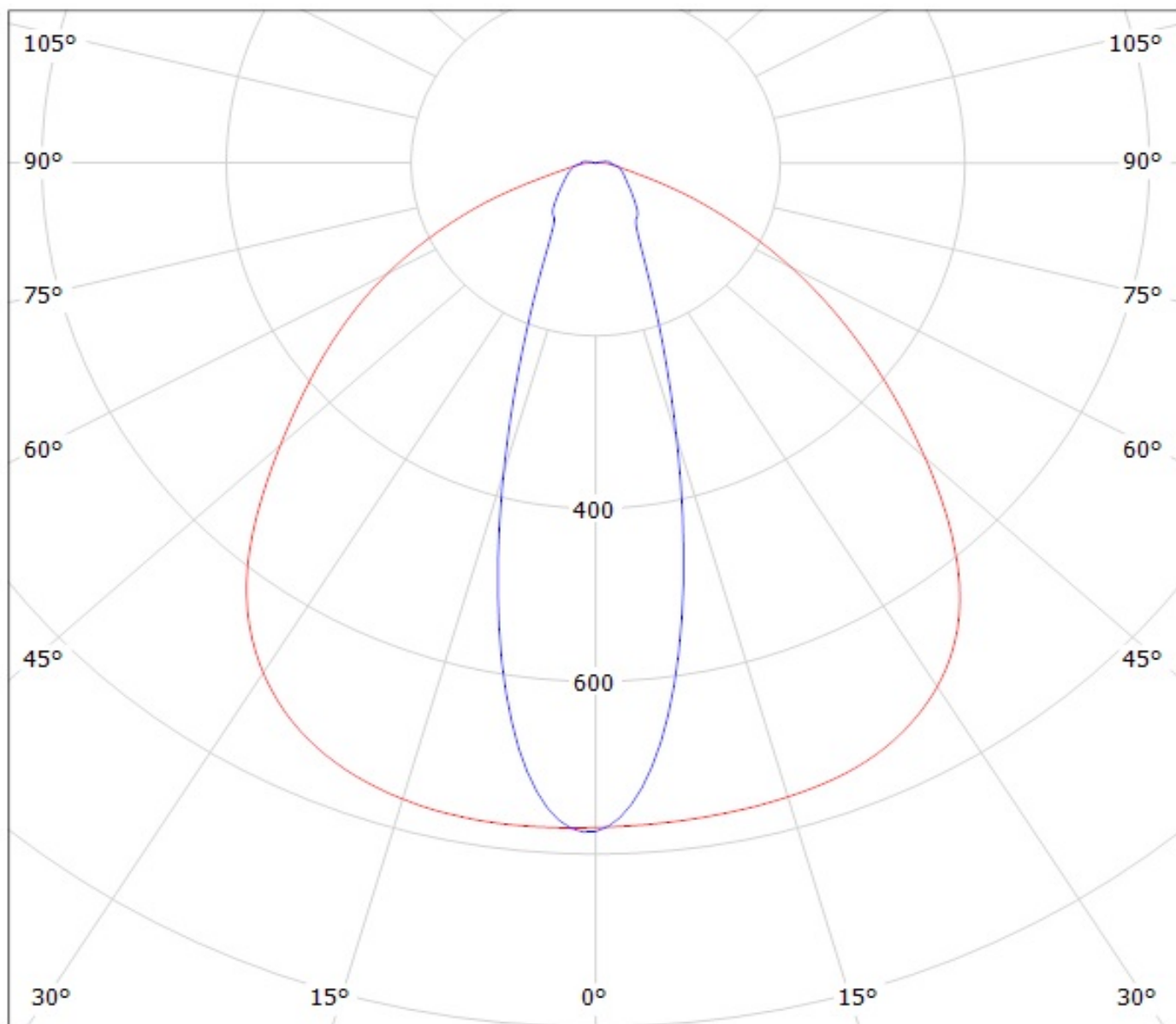


Luminaire: LEDiL Oy CS14597_HB-IP-2X6-O_(SSL80)
Lamps: 1 x SSL80_1292.29lm@250mA_P=8.5574W_I=0.250A



Luminaire: LEDiL Oy CS14597_HB-IP-2X6-O_(LH351Z)

Lamps: 1 x Samsung_LH351Z_(2X6)_951.129lm@250mA_P=8.7495W_I=0.2499A



cd/klm

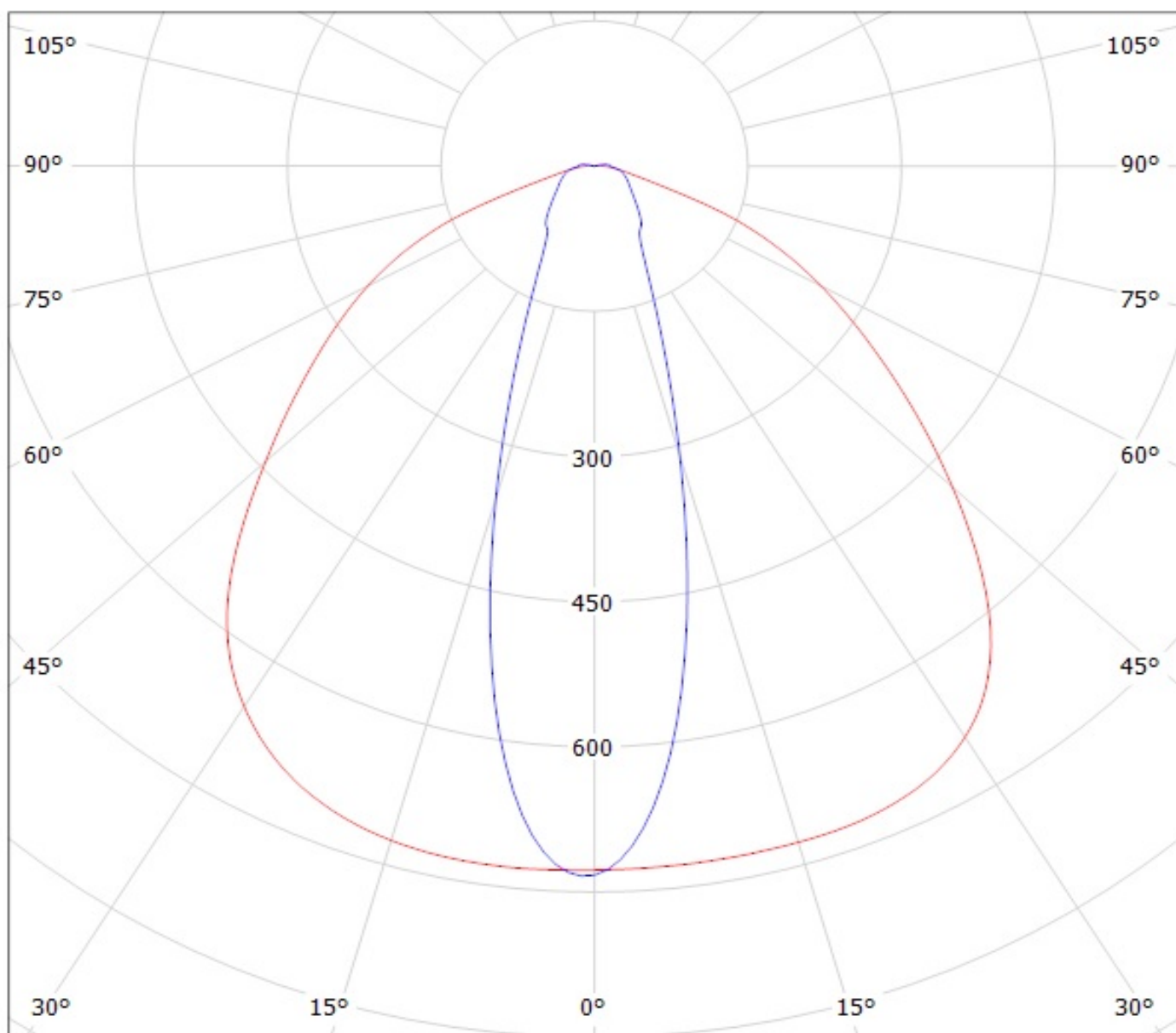
— C0 - C180

— C90 - C270

$\eta = 91\%$

Luminaire: LEDiL Oy CS14597_HB-IP-2X6-O_(Z5M1)

Lamps: 1 x Seoul_Z5M1_(2x6)_(SZ5-M1-WW-C8)_1165.11lm@250mA_P=8.58881W_I=0.2499A



cd/klm

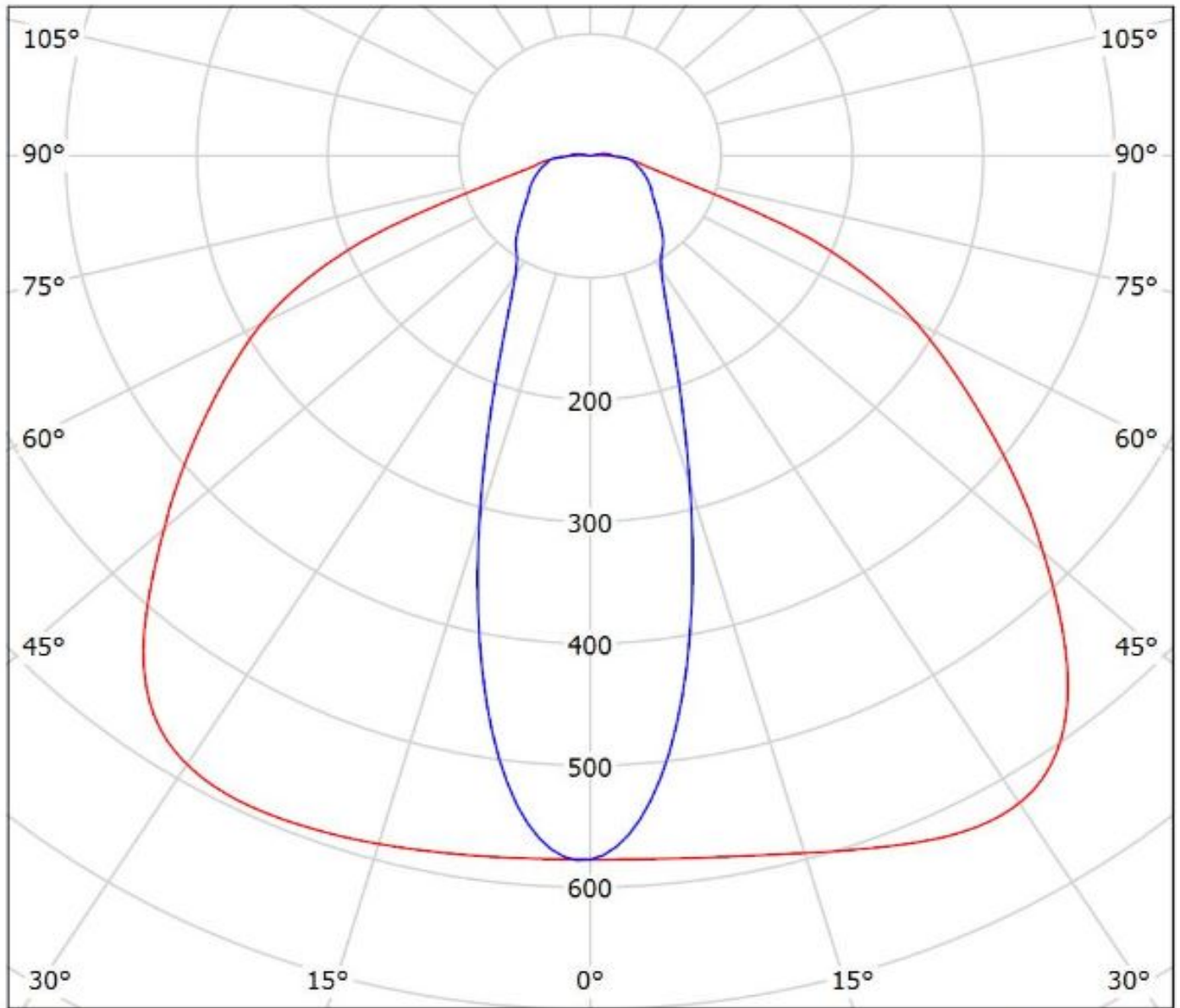
— C0 - C180

— C90 - C270

$\eta = 90\%$

Luminaire: Ledil CS14597_HB-IP-2X6-O_(Z8Y22_PLUS)

Lamps: 1 x Seoul_Z8Y22_PLUS_2X6_(SZ8-Y22-W0-C7P)1489.65lm@250mA_P=8.30675W_I=0.250A



cd/klm

— C0 - C180

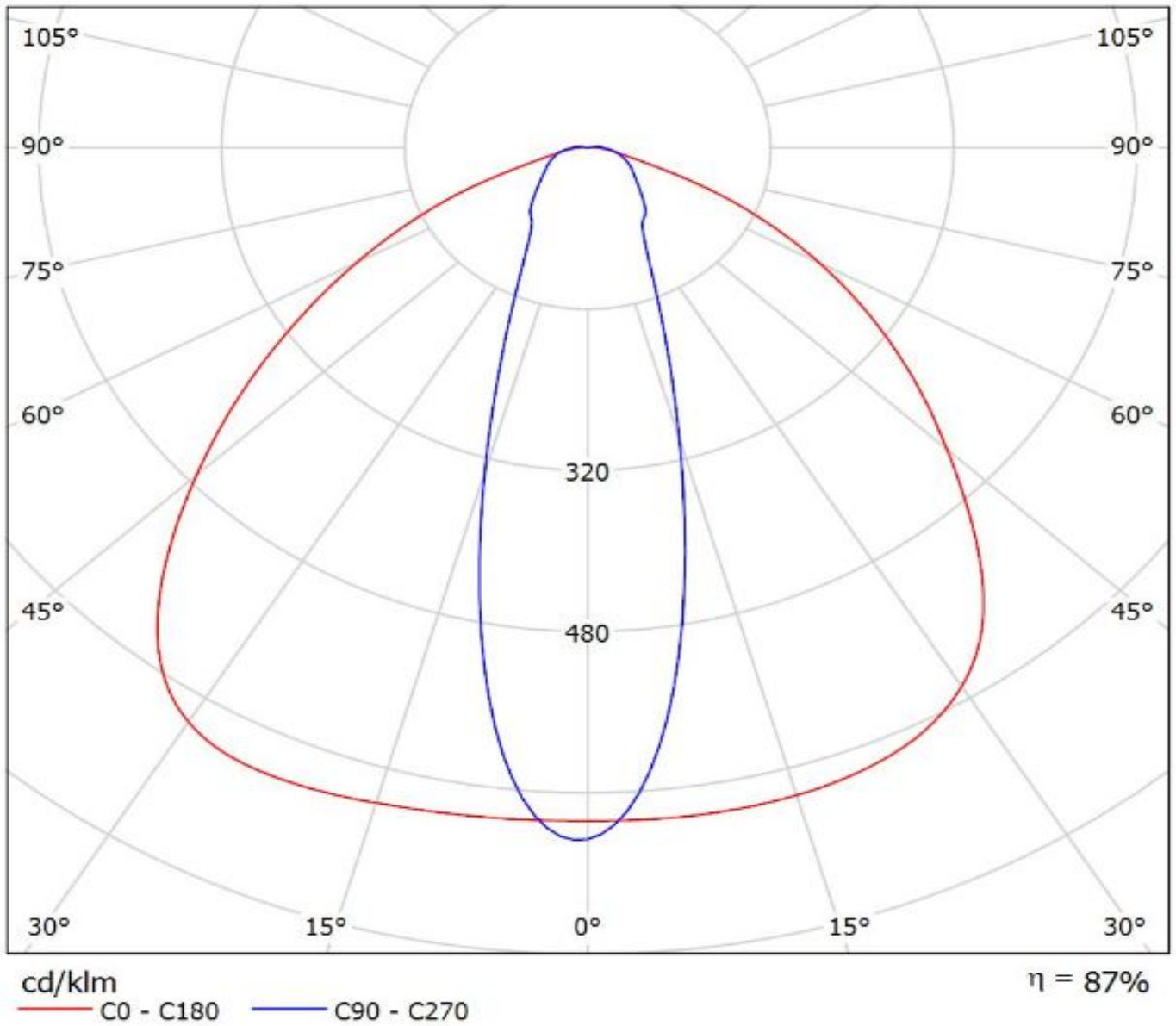
— C90 - C270

$\eta = 93\%$

Ledil CS14597_HB-IP-2X6-O_(TL1L4) / LDC (Polar)

Luminaire: Ledil CS14597_HB-IP-2X6-O_(TL1L4)

Lamps: 1 x Toshiba_TL1L4_2x6_(TL1L4-DW0)_1346.96lm@250mA_CCT=6500K_P=8.5W_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.