PRODUCT DATASHEET
HB series
last update 8/9/2016

DETAILS

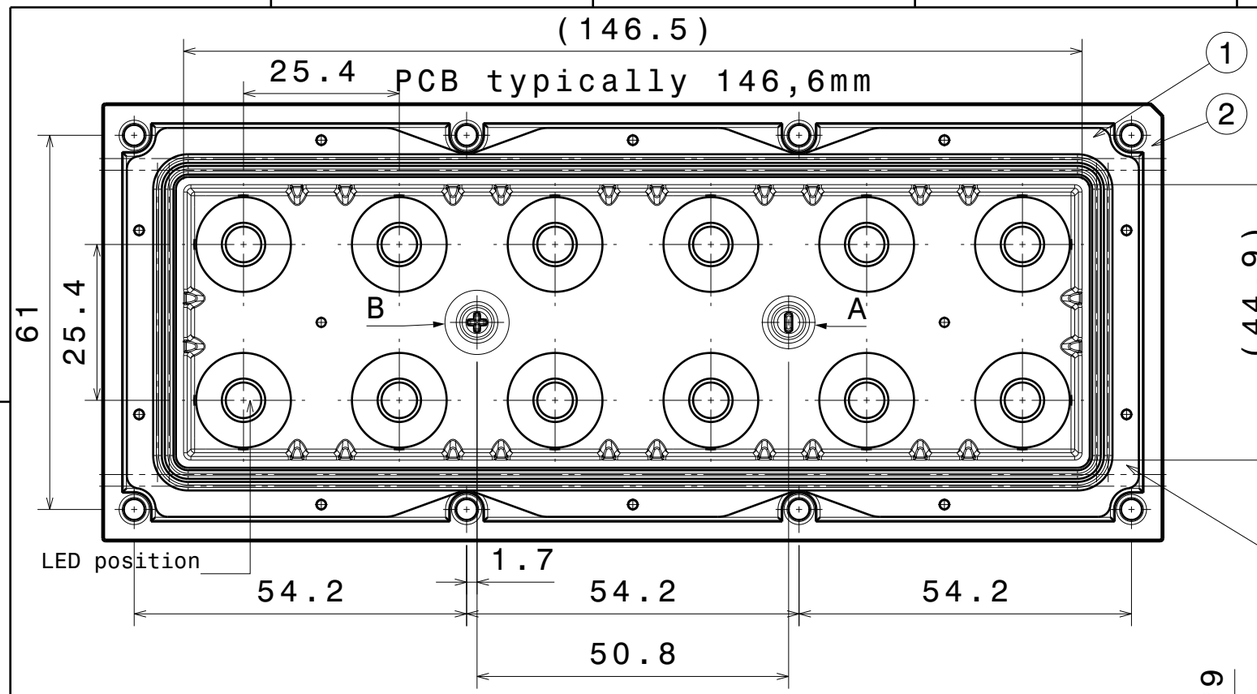
Product Number	CS14891_HB-IP-2X6-M
Family	HB
Type	Assembly
Color	clear
Diameter	173 + 71,4 mm
Height	11,39 mm
Style	rectang
Optic Material	PMMA
Holder Material	
Fastening	screw, pin
Status	production ready
ROHS Comliant	Yes
Date Updated	8/09/2016

OPTICAL PROPERTIES

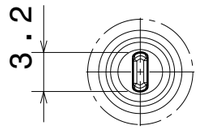
LED	Viewing Angle	Light Beam	Effi-ciency	cd/lm	Connector
XM-L	27 deg	Medium	94 %	3.100	-
XP-G3	32 deg	Medium	94 %	2.400	-
XP-L	39 deg	Medium	94 %	1.700	-
XP-L2	39 deg	Medium	94 %	1.700	-
XT-E	25 deg	Medium	92 %	3.100	-
H35C1 (LEMWA33)	sim: 35	Medium	sim: 94 %	sim: 2.100	-
LUXEON XR-TX (L2T0-xxyy012M)	28 deg	Medium	94 %	2.950	-
LUXEON T	29 deg	Medium	94 %	2.700	-
NVSxE21A	24 deg	Medium	92 %	4.100	-
Oslon Square PC	29 deg	Medium	93 %	2.690	-
Z5M1/Z5M2	30 deg	Medium	93 %	2.630	-
Z8Y22P	30 deg	Medium	93 %	2.500	-

Ledil Oy
Salorankatu 10
24240 SALO, Finland

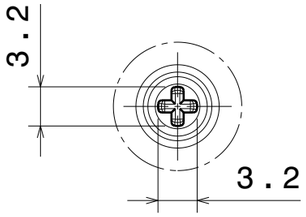
http://www.ledil.com
email: ledil@ledil.com
FAX: +358-2-733 8001



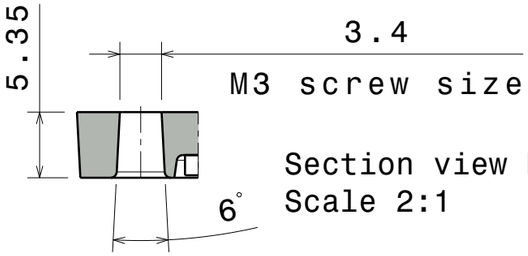
Wiring:
PCB is fully sealed between the lens with silicone seal and the heatsink. Wiring needs to be done through the PCB and heatsink to maintain high IP rating.



Detail A
Scale 2:1

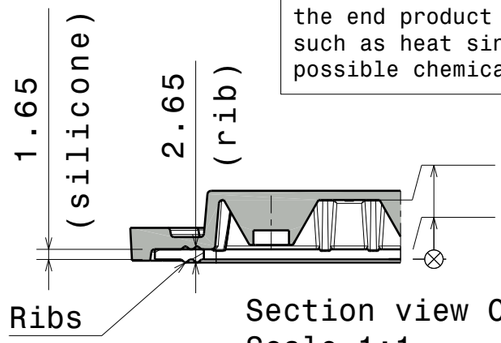


Detail B
Scale 2:1



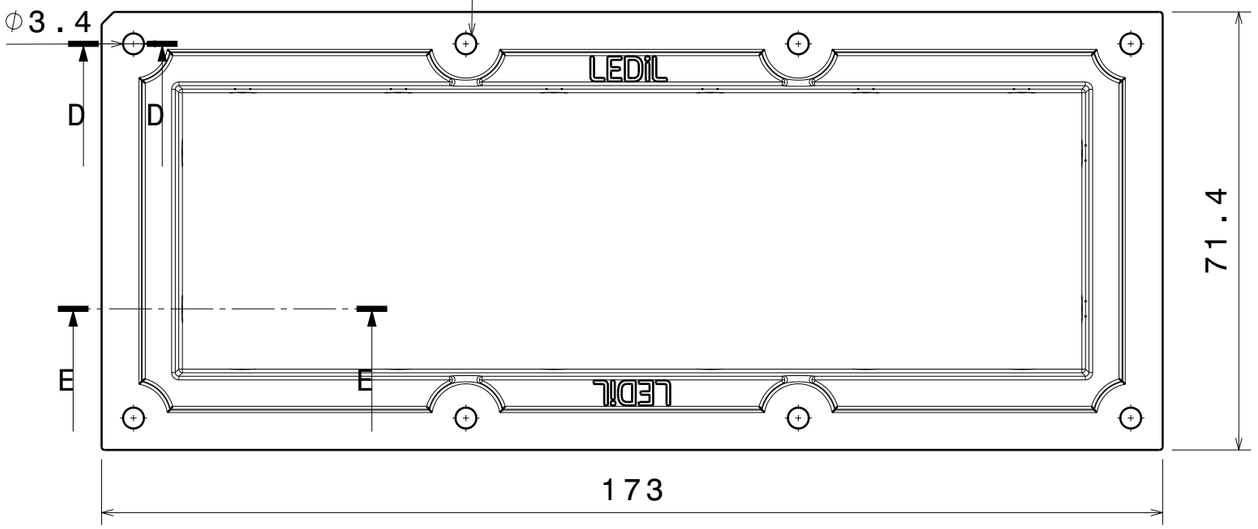
Section view D-D
Scale 2:1

Silicone seal is tested to work in LEDiL test assemblies. Customer is recommended to test the sealing in the end product due many variables, such as heat sink surface and possible chemical traces



Section view C-C
Scale 1:1

Fasten middle screws first. Recommended torque with pan head screw: 0.57Nm
(for 1.6mm thick PCB, no thermal pad)



INDEX	PART NO	DESCRIPTION	MATERIAL	COLOUR
1	C14018	2X6-SEAL25	Silicone	
2	-	HB-IP-2X6	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

THIRD ANGLE PROJECTION:

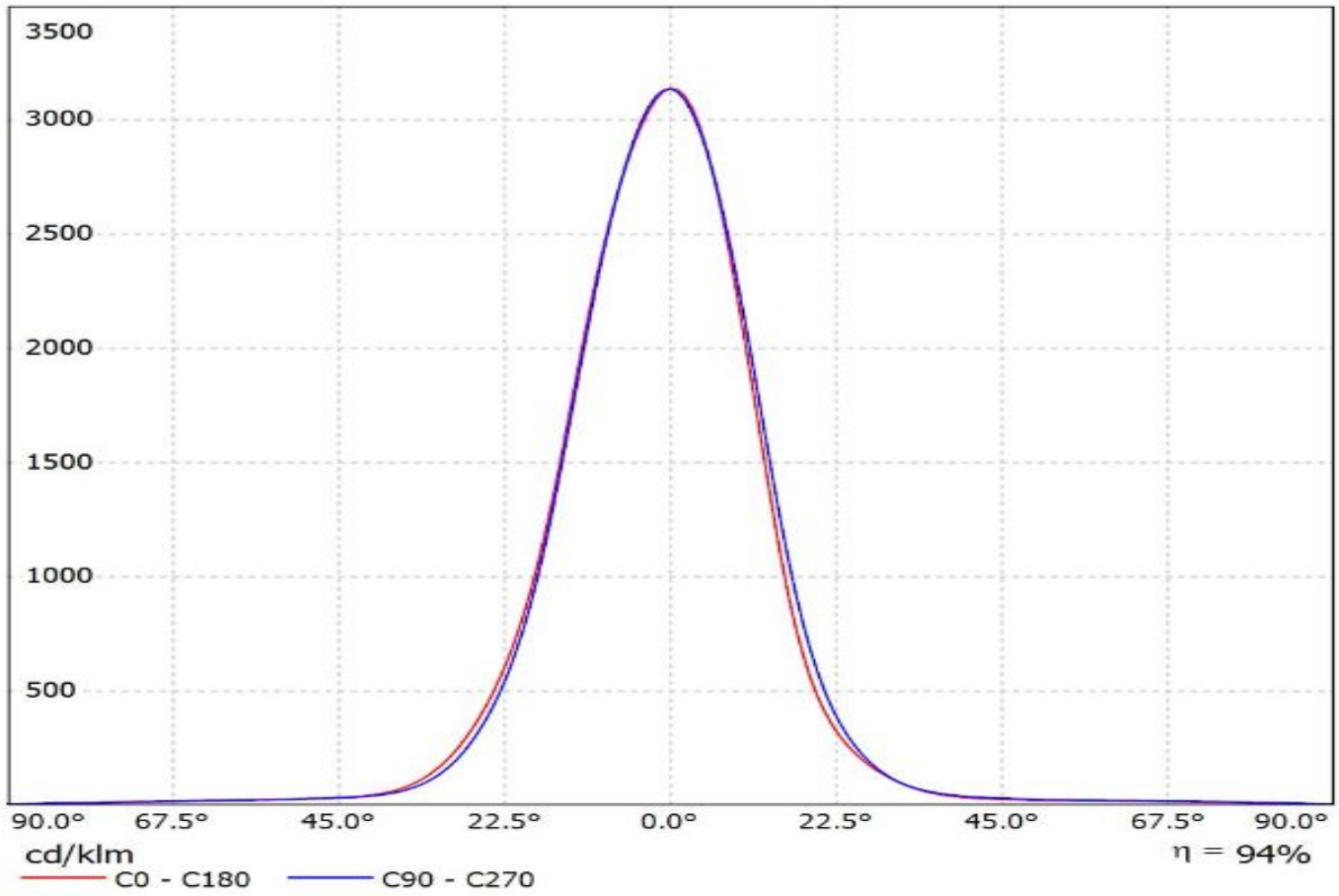
Ledil Oy
Salorankatu 10
FIN 24240 SALO
Finland

DRAWING TITLE
MechDrawing_HB-IP-2X6

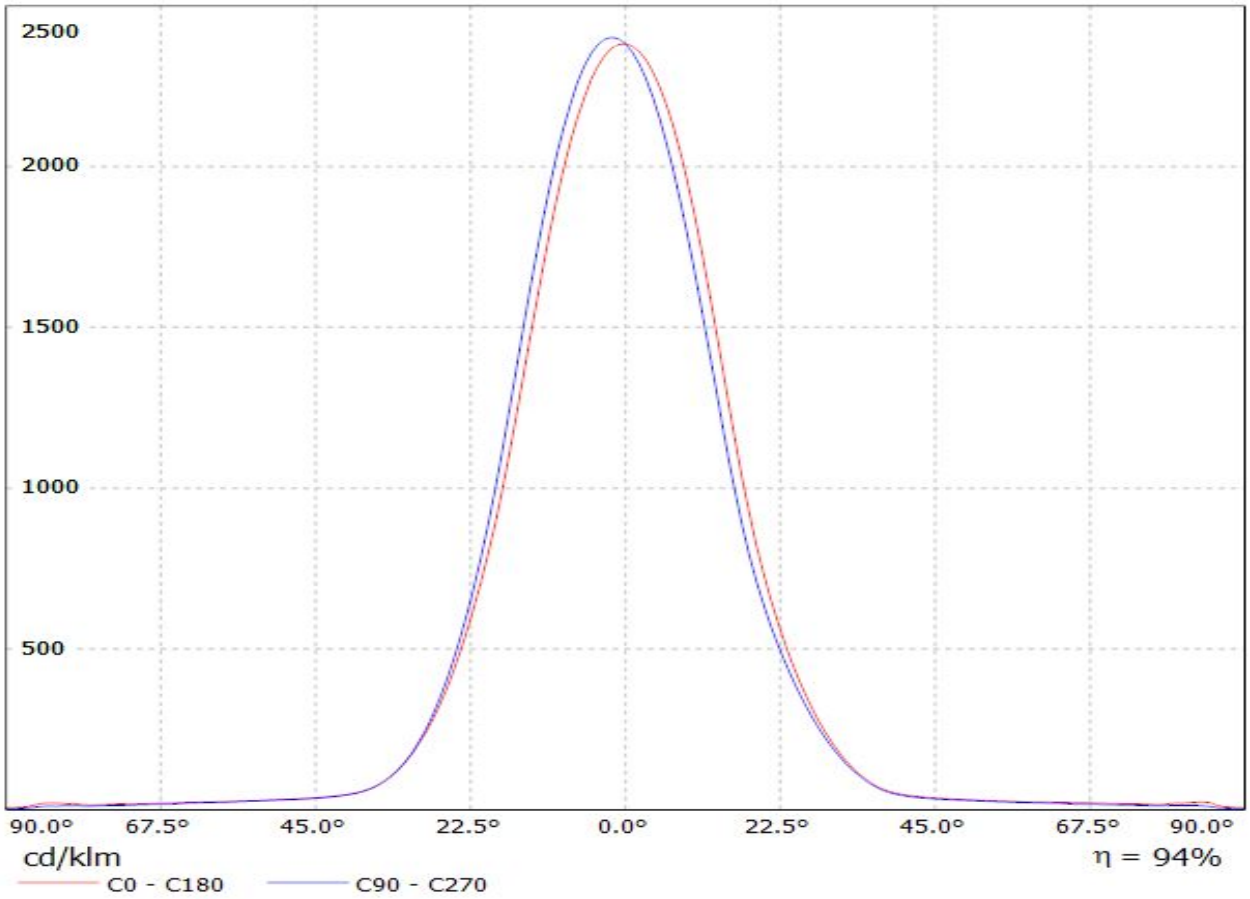
SIZE A3 | PART NUMBER -

SCALE 1:1 | WEIGHT - | SHEET 1/1

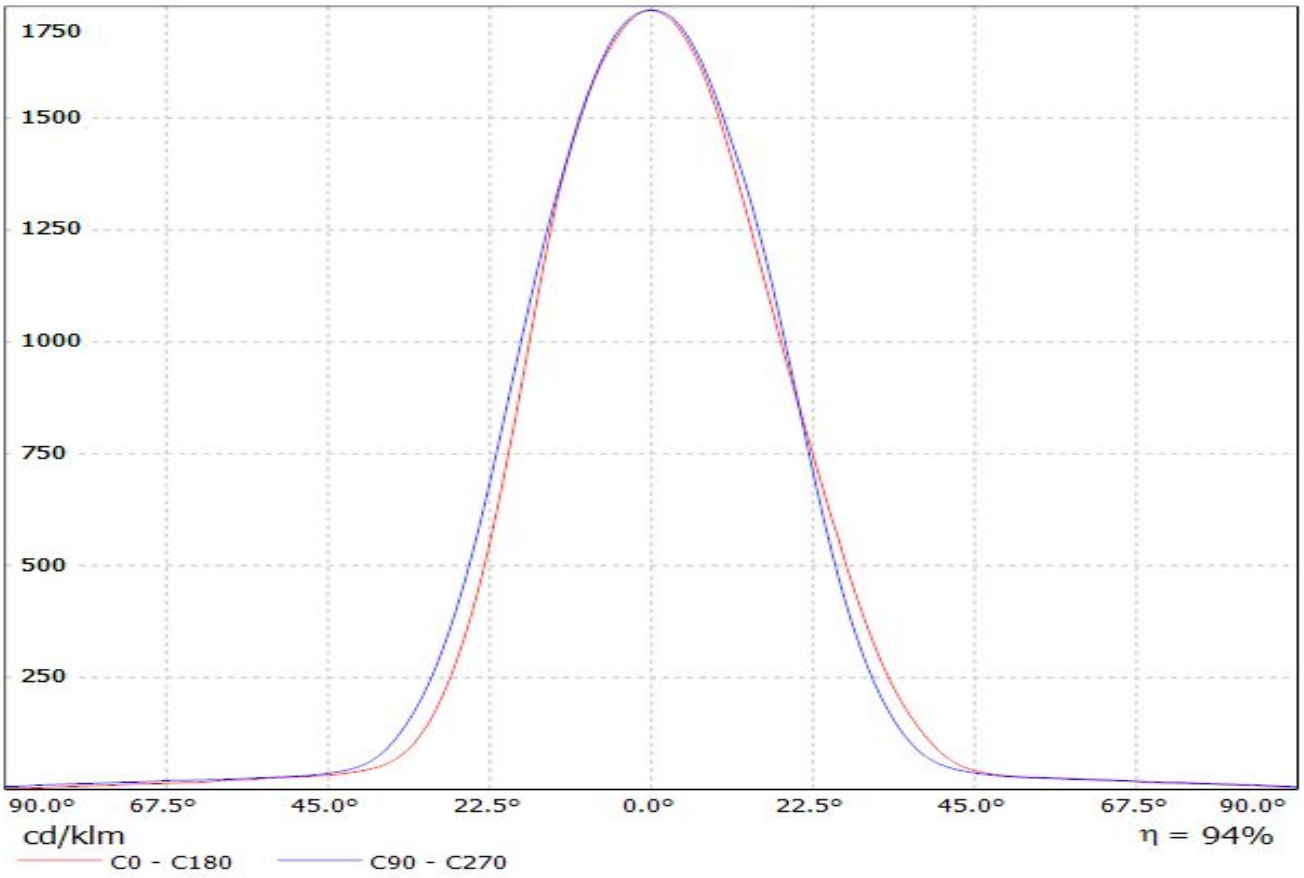
Luminaire: LEDiL Oy CS14891_HB-IP-2X6-M_(XM-L)_Cav1
Lamps: 1 x Cree_XM-L_(XMLAWT-00-0000-000LT2OE7)_985.421lm@250mA_P=8.11375W_I=0.2499A



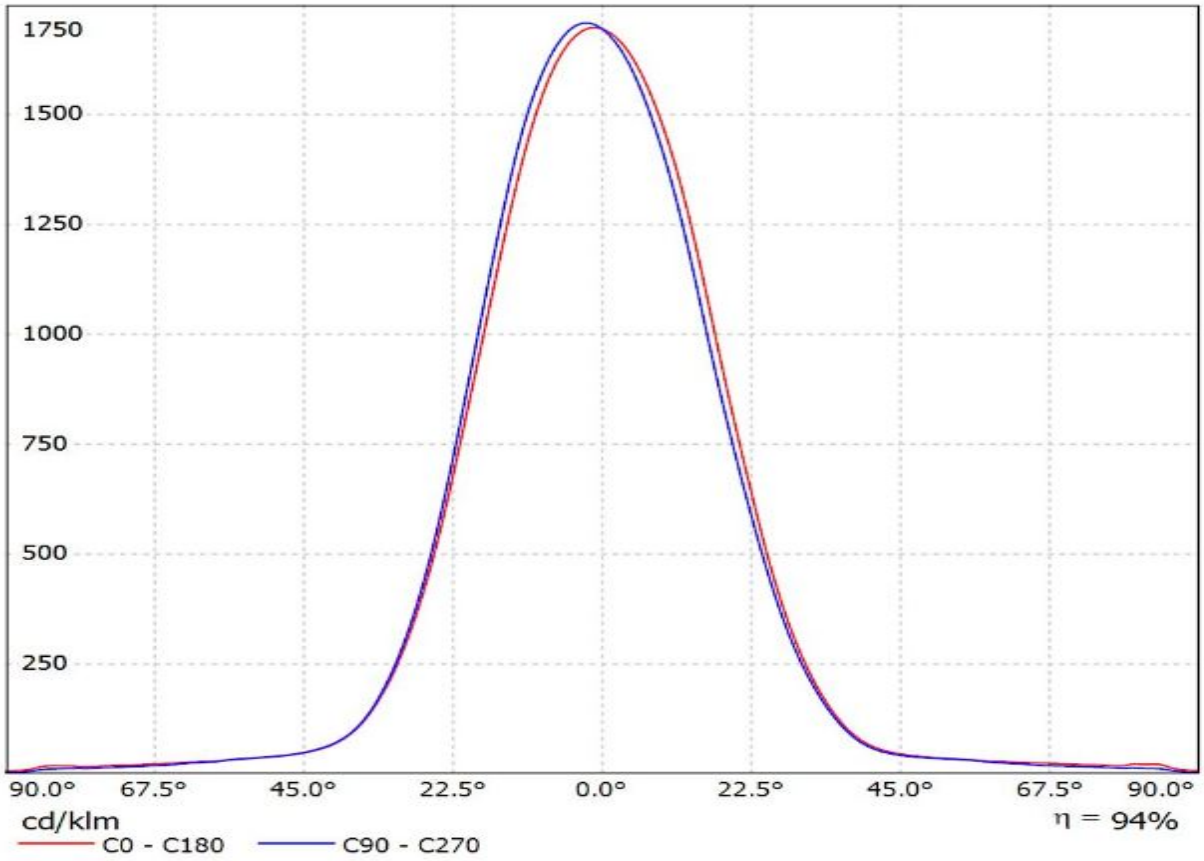
Luminaire: Ledil CS14891_HB-IP-2X6-M_(XP-G3)
Lamps: 1 x Cree_XP-G3_6x2_(XPGDWT-B1-6C1-S3-0-01)_1521.26lm@250mA_P=8.253W_I=0.25A



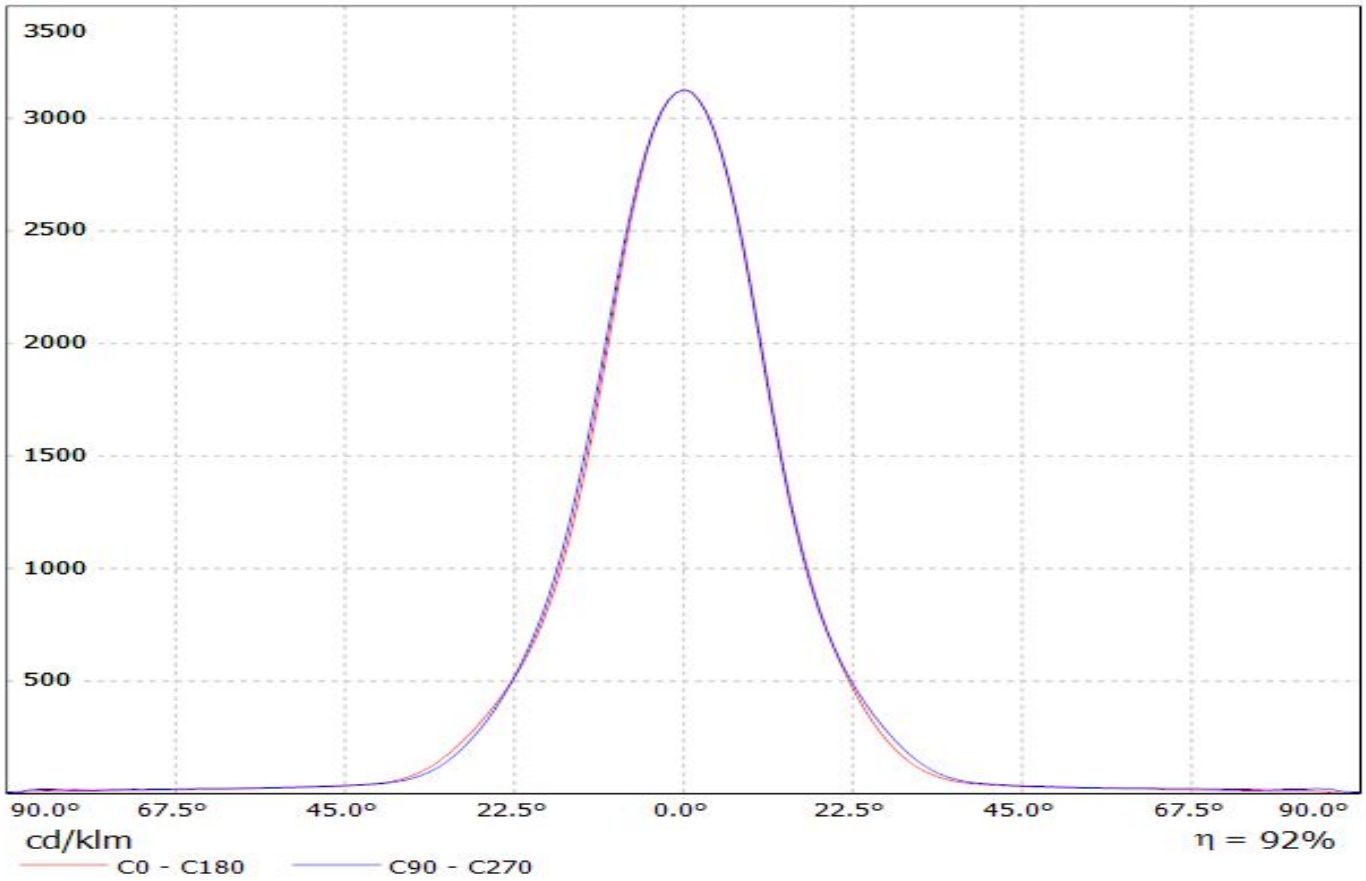
Luminaire: LEDiL Oy CS14891_HB-IP-2X6-M_(XP-L)
Lamps: 1 x Cree_XP-L_(XPLAWT-0-7A3-U50-0H-0001)_1258.85lm@250mA_P=8.27562W_I=0.250A



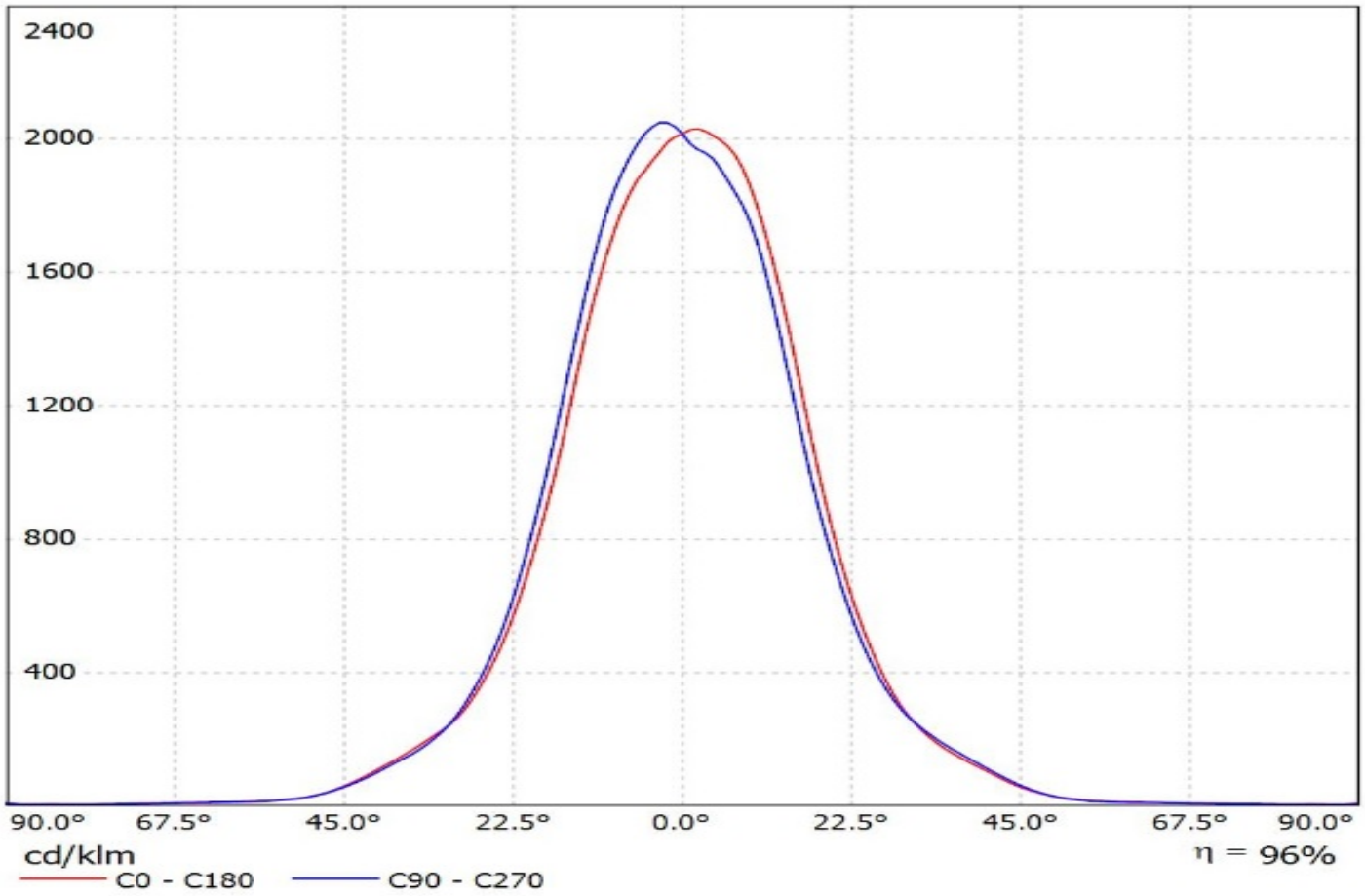
Luminaire: Ledil CS14891_HB-2X6-M_(XP-L2)
Lamps: 1 x Cree_XP-L2_2x6_1659.4lm@250mA_P=8.22525W_I=0.25A



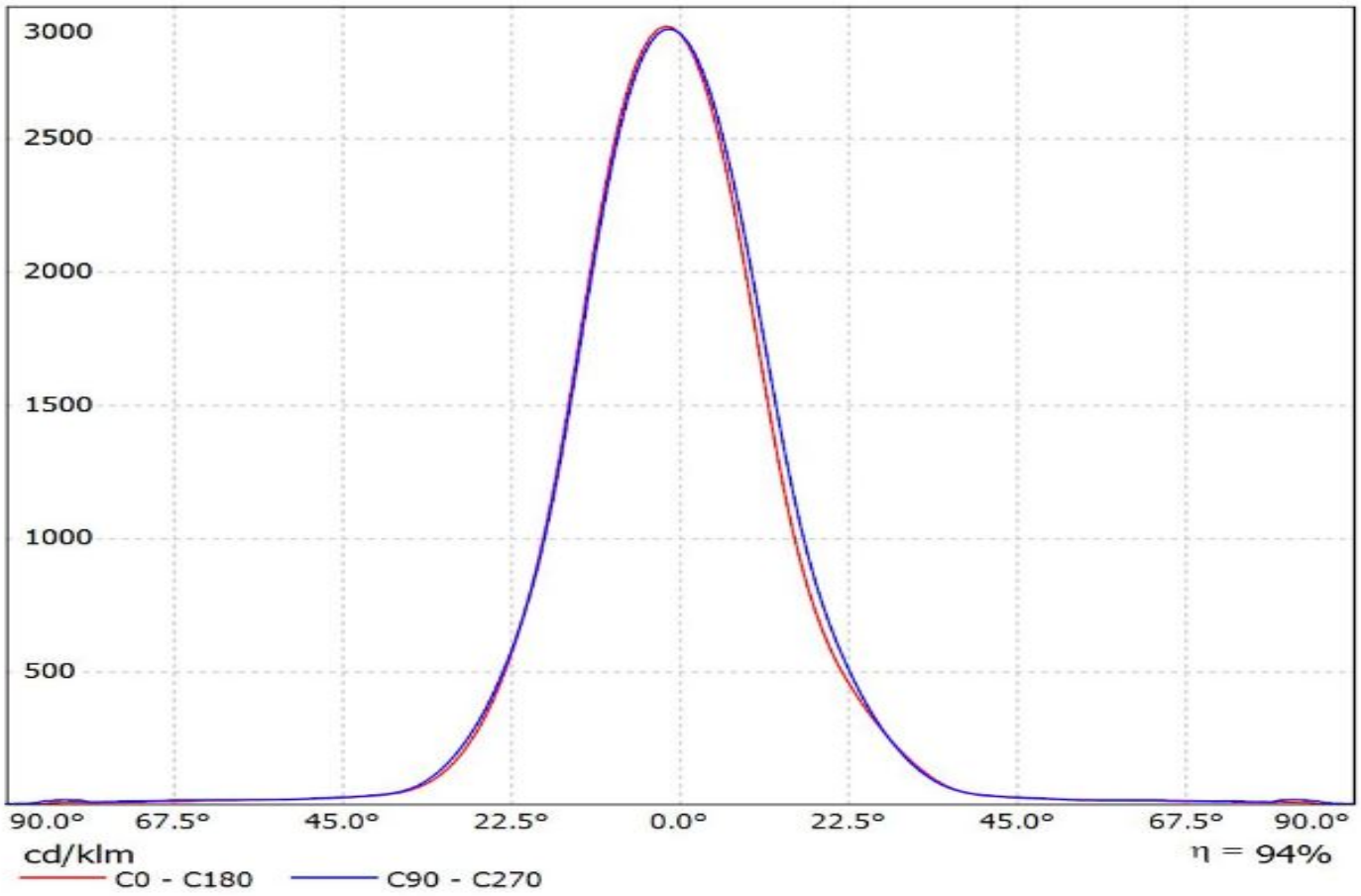
Luminaire: Ledil CS14891_HB-IP-2X6-M_(XT-E)
Lamps: 1 x Cree_XT-E_1280.48lm@250mA_P=8.94575W_I=0.250A



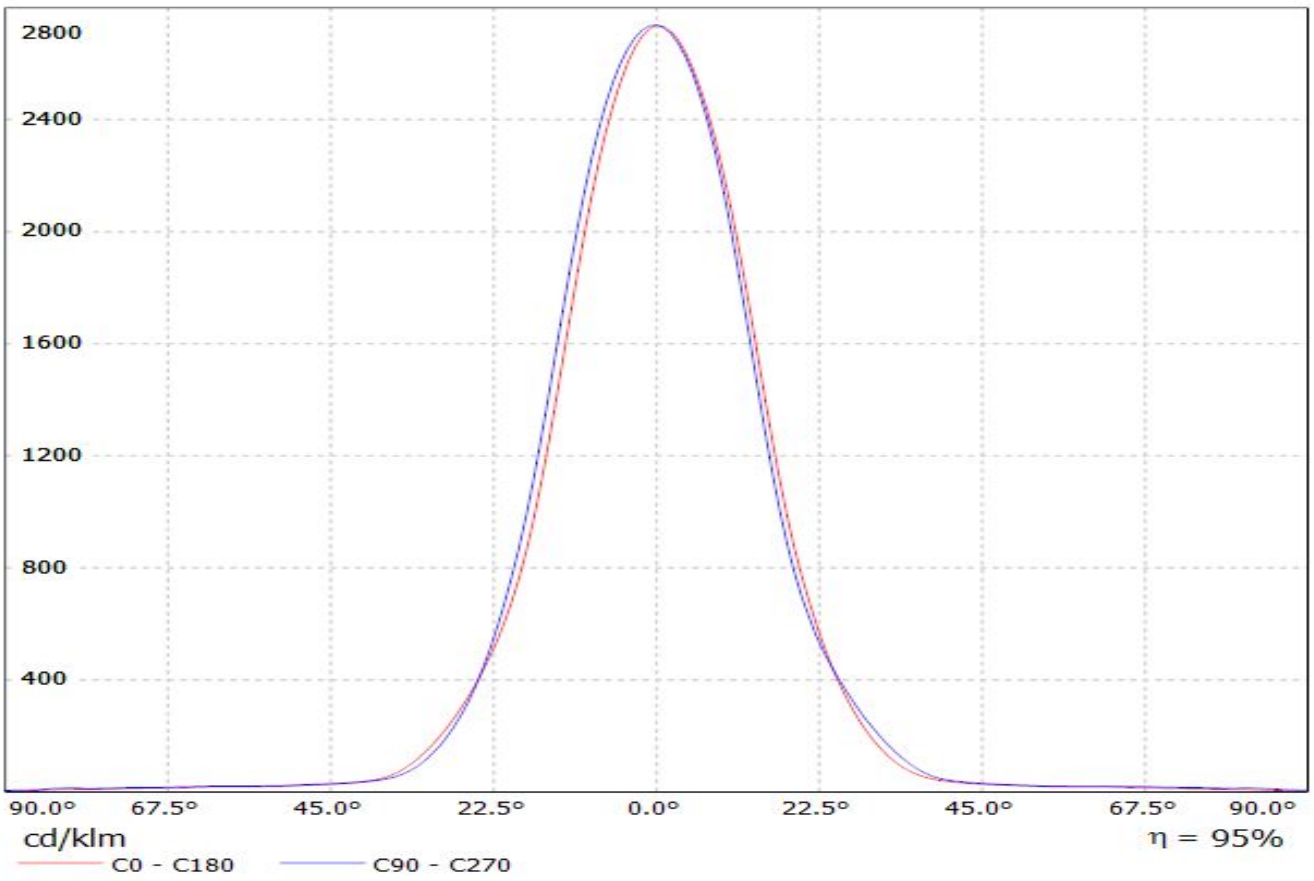
Luminaire: Ledil Oy CS14891_HB-IP-2X6-M_(H35C1)_SIMULATED
Lamps: 1 x LG H35C1



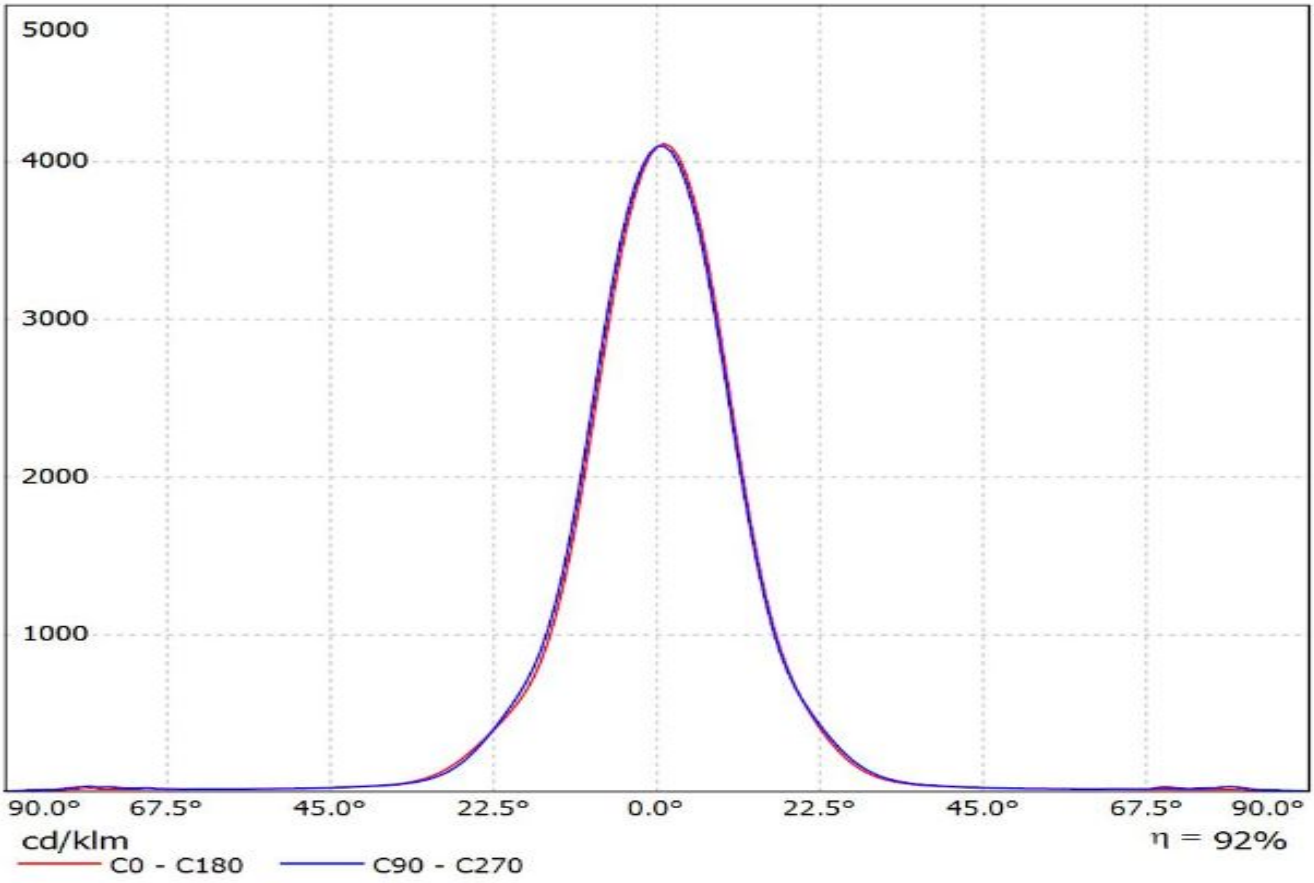
Luminaire: Ledil CS14891_HB-IP-2X6-M_(Luxeon_XR-TX)
Lamps: 1 x Luxeon_XR-TX_2x6_1376.06lm@250mA_P=8.3883W_I=0.25A



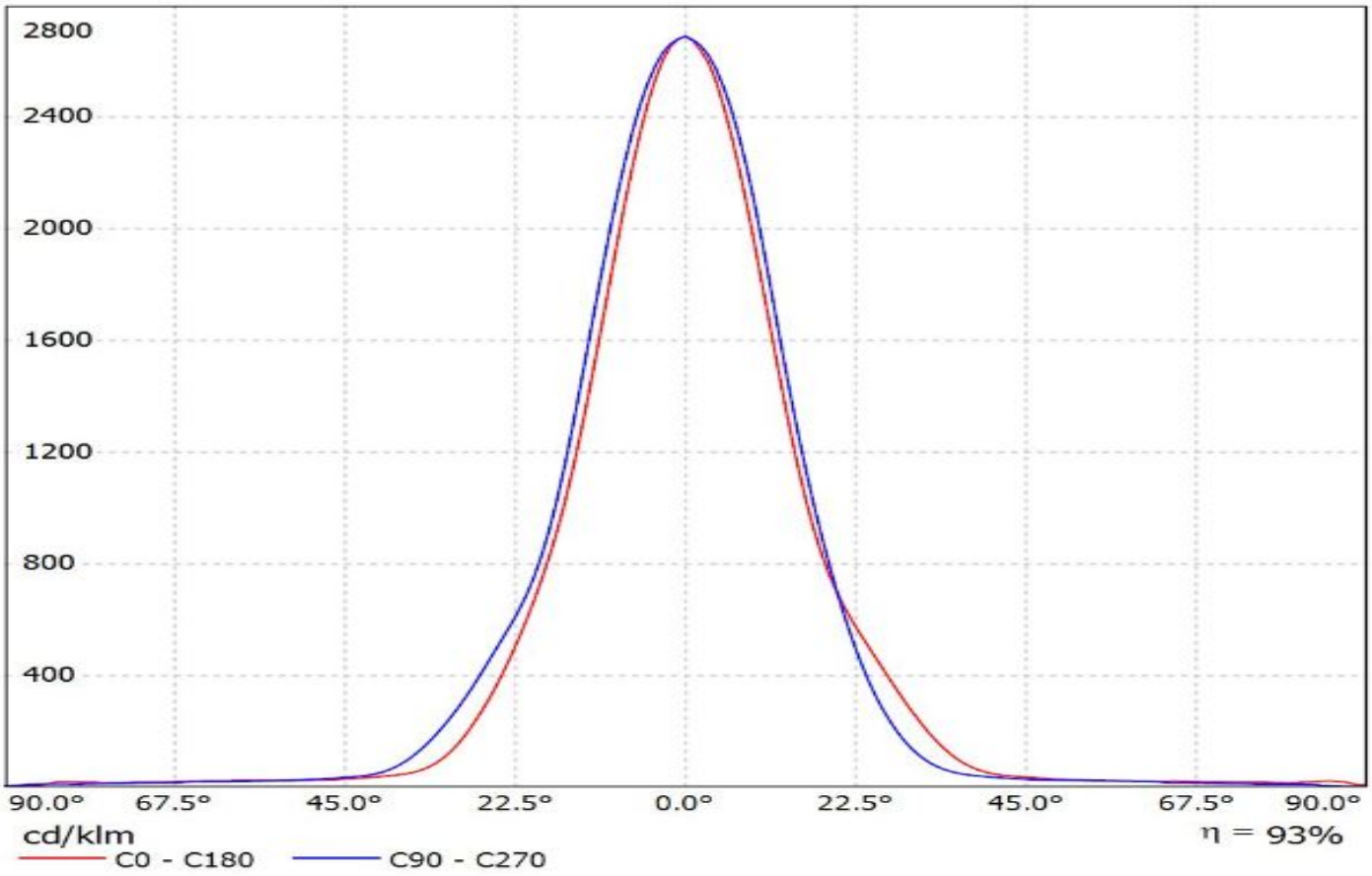
Luminaire: LEDiL Oy CS14891_HB-IP-2X6-M_(Luxeon_T)
Lamps: 1 x Luxeon_T_(LXH8-FW30)_1040.41lm@250mA_P=8.49754W_I=0.250A



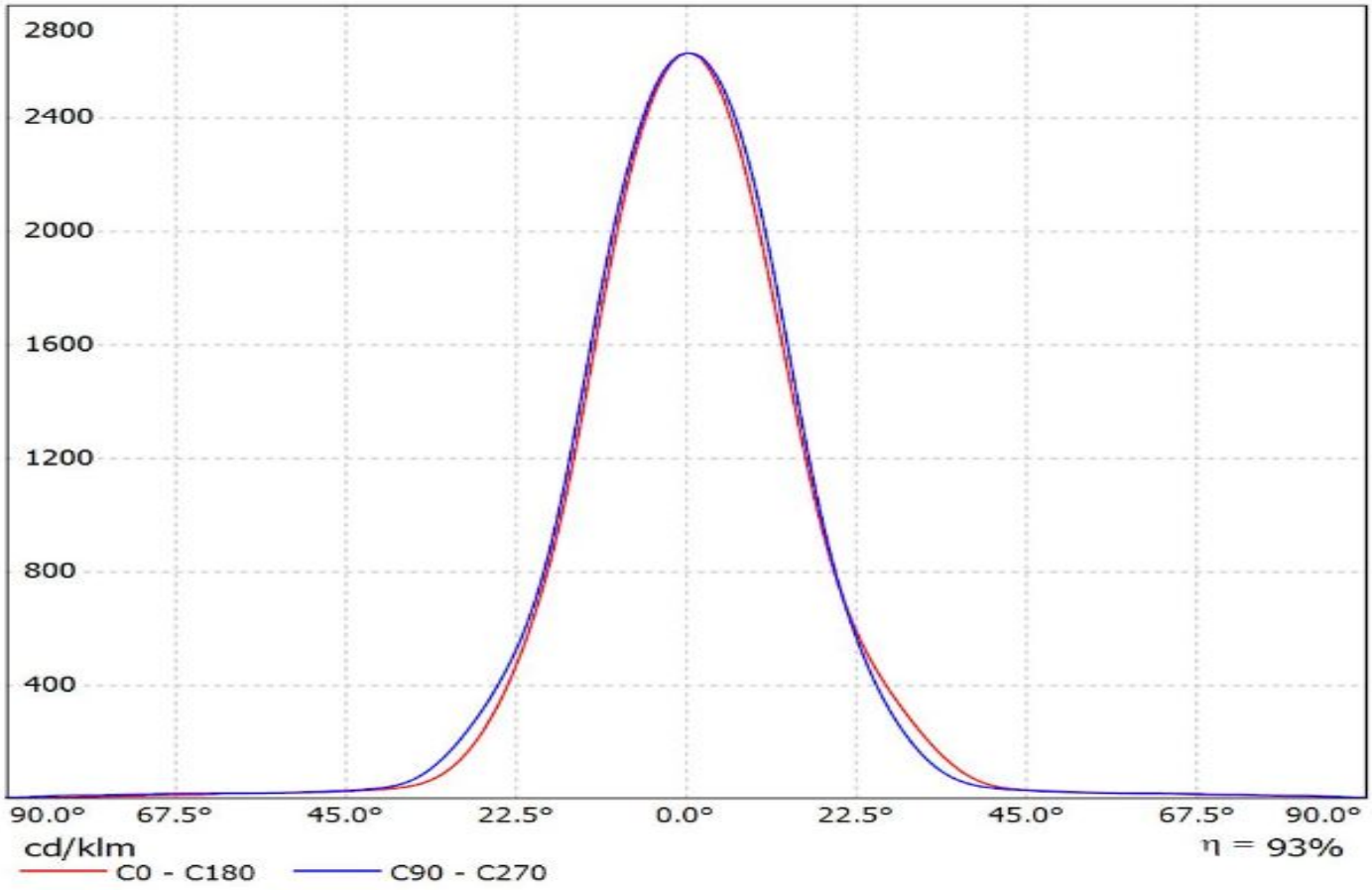
Luminaire: Ledil CS14891_HB-IP-2X6-M_(Nichia_E21)
Lamps: 1 x Nichia_NVSWE21A_601.623lm@600mA_P=3.5001W_I=0.600A



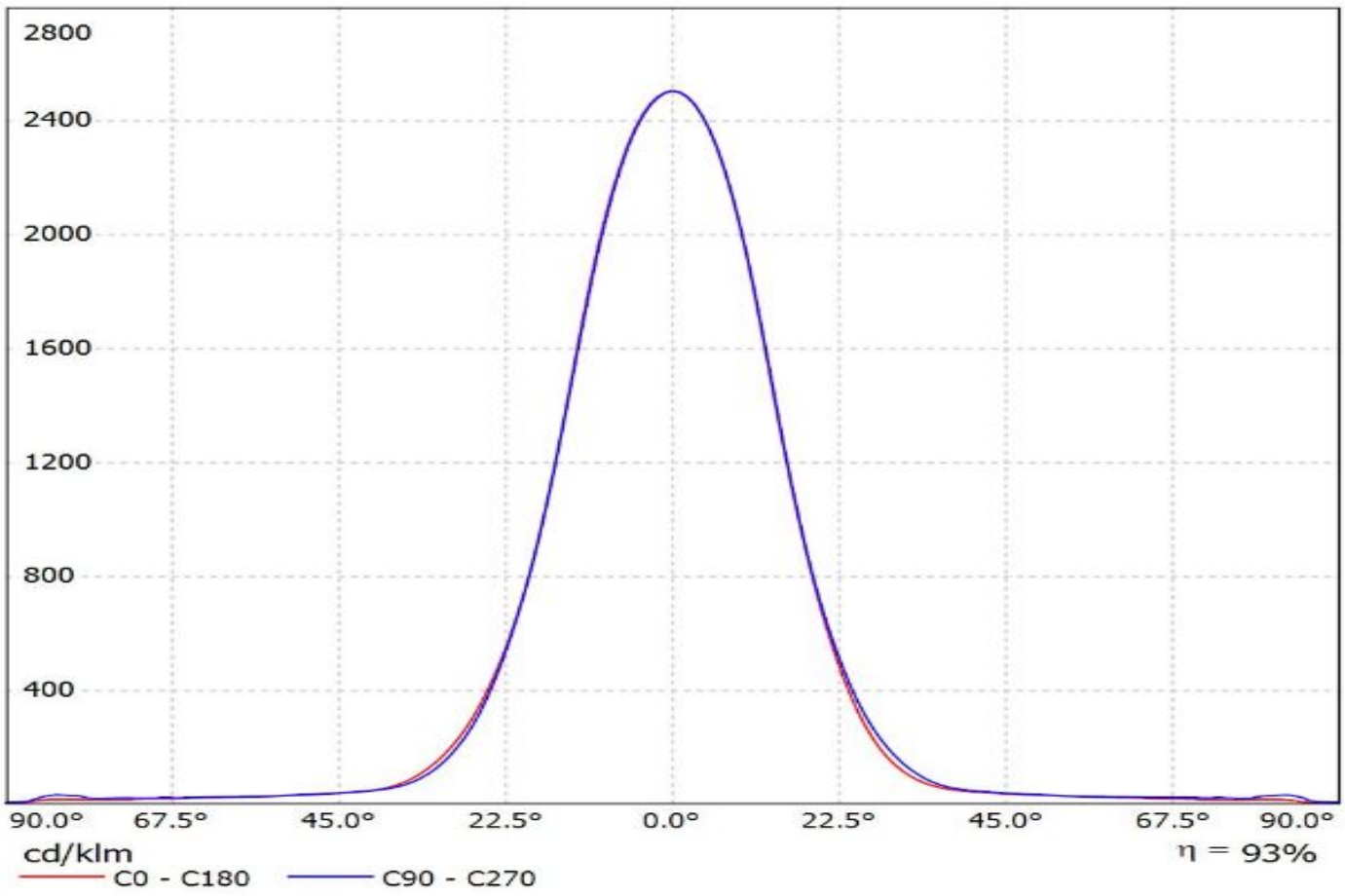
Luminaire: Ledil CS14891_HB-IP-2X6-M_(SQ-PC_2X6)_C1
Lamps: 1 x Oslon_SQ-PC_2X6_1253.97lm@250mA_P=8.87825W_I=0.25A



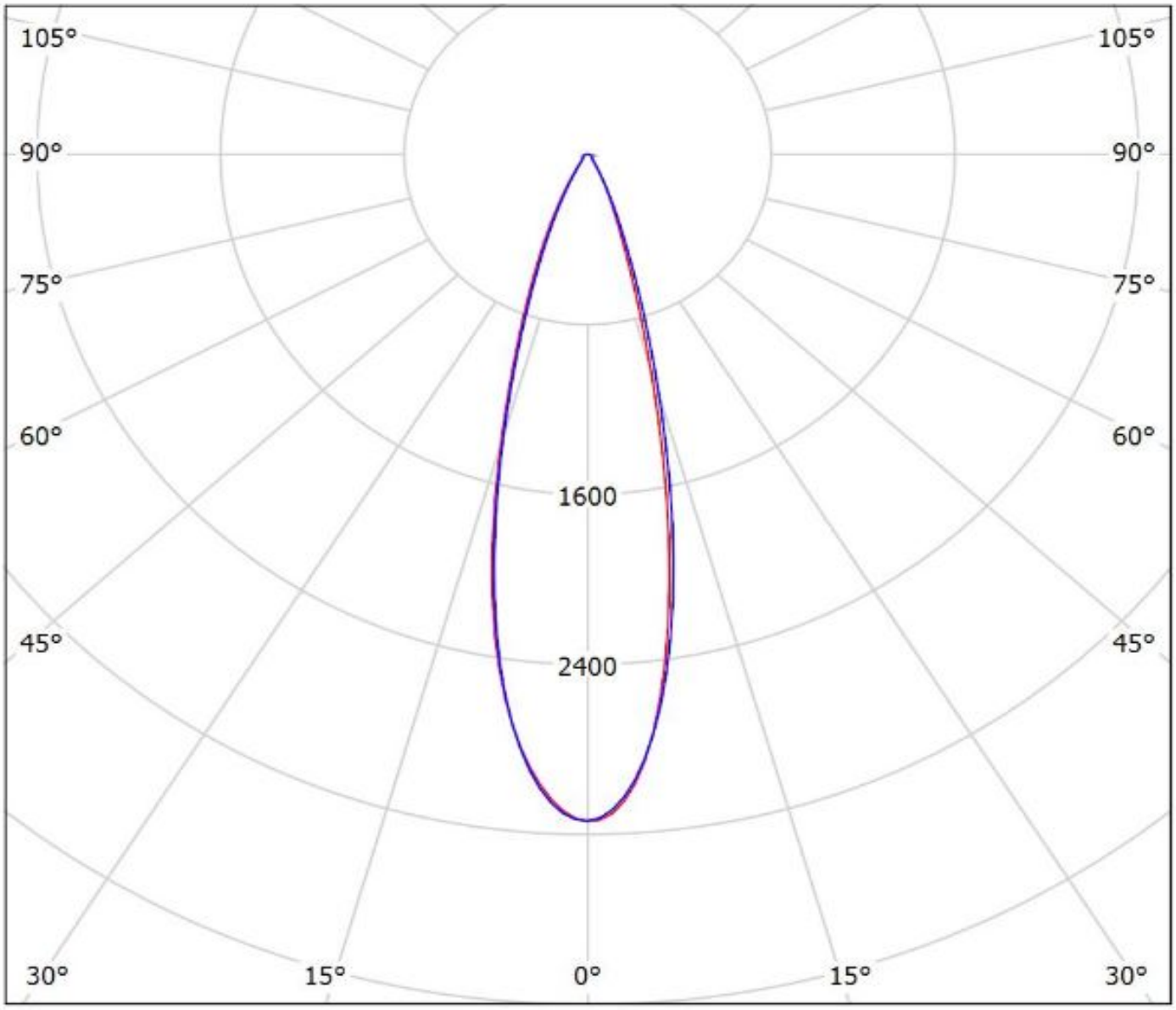
Luminaire: Ledil CS14891_HB-IP-2X6-M_(Z5M1)
Lamps: 1 x Seoul Z5M1 (SZ5-M1-WW-C8)_1201.44lm@250mA_P=8.63825W_I=0.25A



Luminaire: Ledil CS14891_HB-IP-2X6-M_(Z8Y22_PLUS)
Lamps: 1 x Seoul_Z8Y22_PLUS_2X6_(SZ8-Y22-W0-C7P)1489.65lm@250mA_P=8.30675W_I=0.250A



Luminaire: LEDiL Oy CS14891_HB-IP-2X6-M_(XM-L)_Cav1
Lamps: 1 x Cree_XM-L_(XMLAWT-00-0000-000LT2OE7)_985.421lm@250mA_P=8.11375W_I=0.2499A

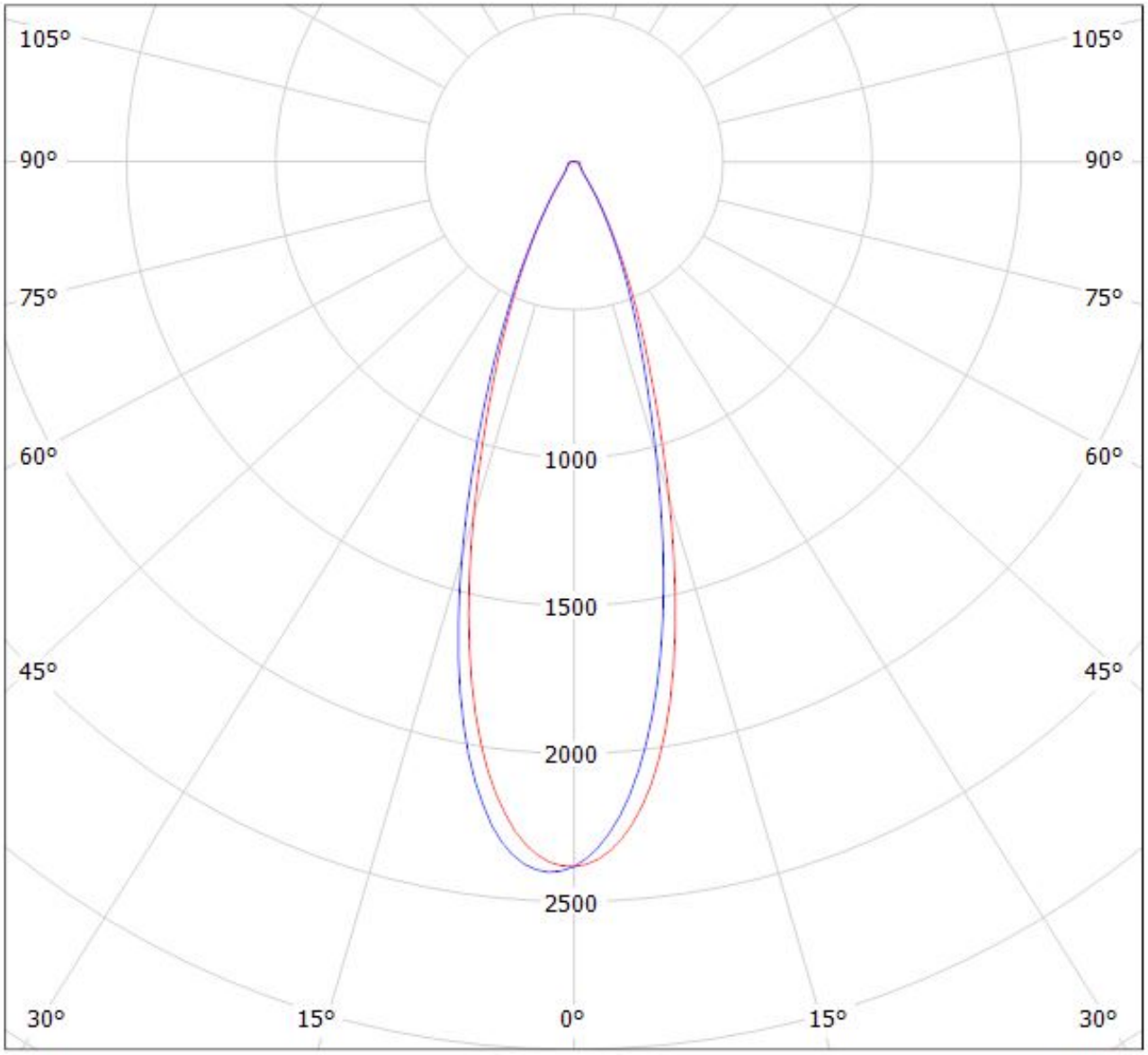


cd/klm

η = 94%

C0 - C180 C90 - C270

Luminaire: Ledil CS14891_HB-IP-2X6-M_(XP-G3)
Lamps: 1 x Cree_XP-G3_6x2_(XPGDWT-B1-6C1-S3-0-01)_1521.26lm@250mA_P=8.253W_I=0.25A

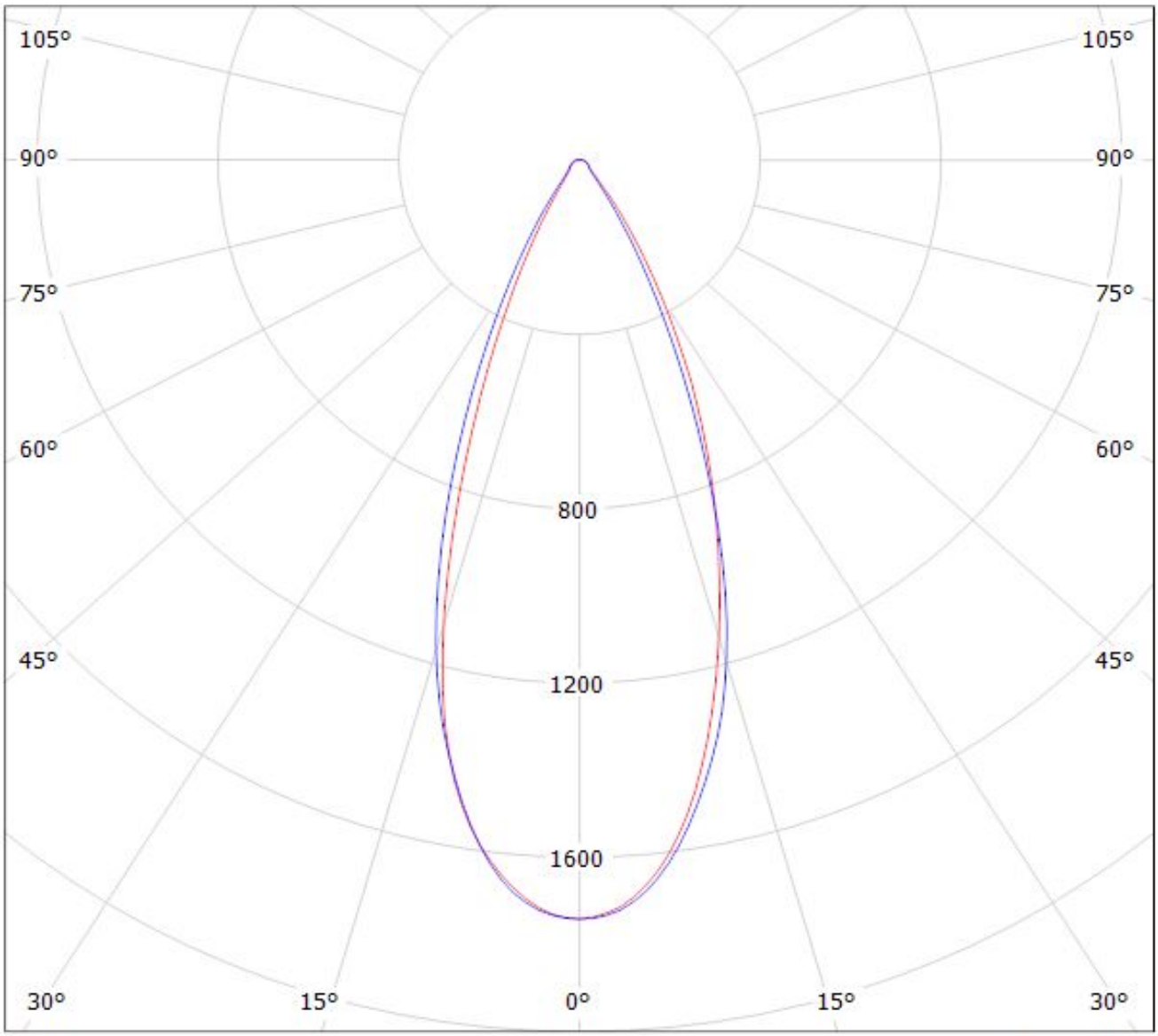


cd/klm

η = 94%

C0 - C180 C90 - C270

Luminaire: LEDiL Oy CS14891_HB-IP-2X6-M_(XP-L)
Lamps: 1 x Cree_XP-L_(XPLAWT-0-7A3-U50-0H-0001)_1258.85lm@250mA_P=8.27562W_I=0.250A



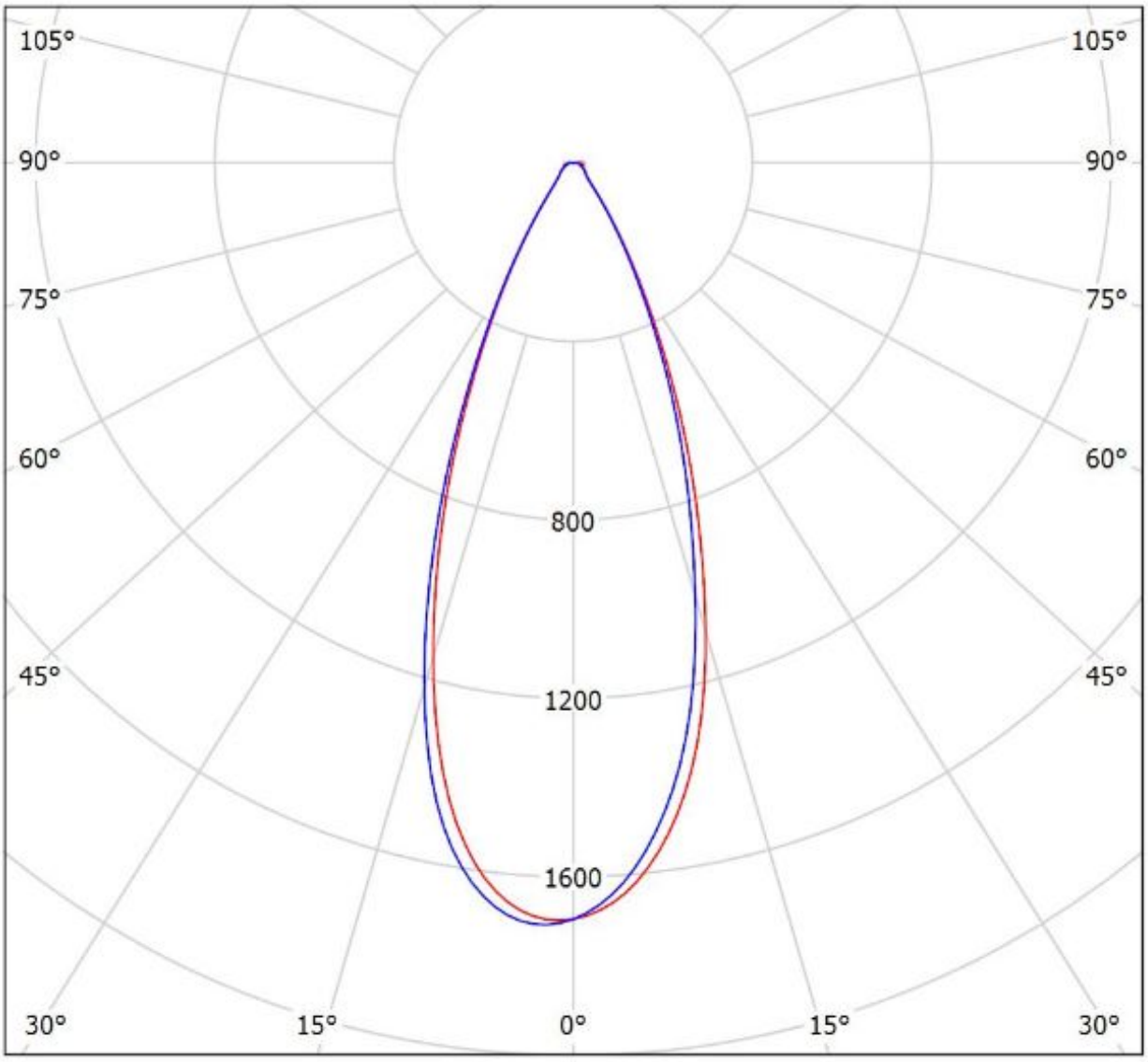
cd/klm

η = 94%

C0 - C180

C90 - C270

Luminaire: Ledil CS14891_HB-2X6-M_(XP-L2)
Lamps: 1 x Cree_XP-L2_2x6_1659.4lm@250mA_P=8.22525W_I=0.25A

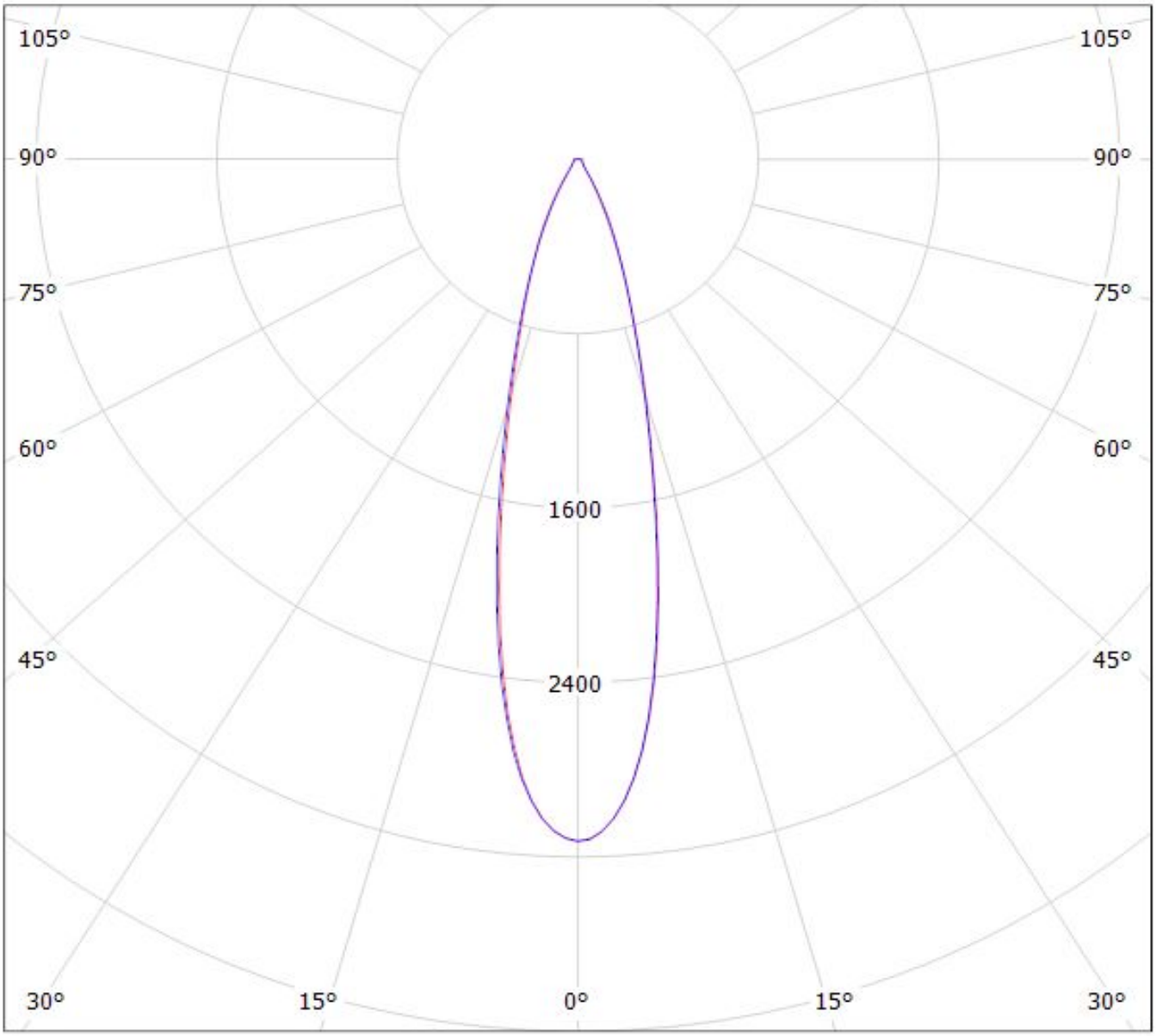


cd/klm

η = 94%

C0 - C180 C90 - C270

Luminaire: Ledil CS14891_HB-IP-2X6-M_(XT-E)
Lamps: 1 x Cree_XT-E_1280.48lm@250mA_P=8.94575W_I=0.250A

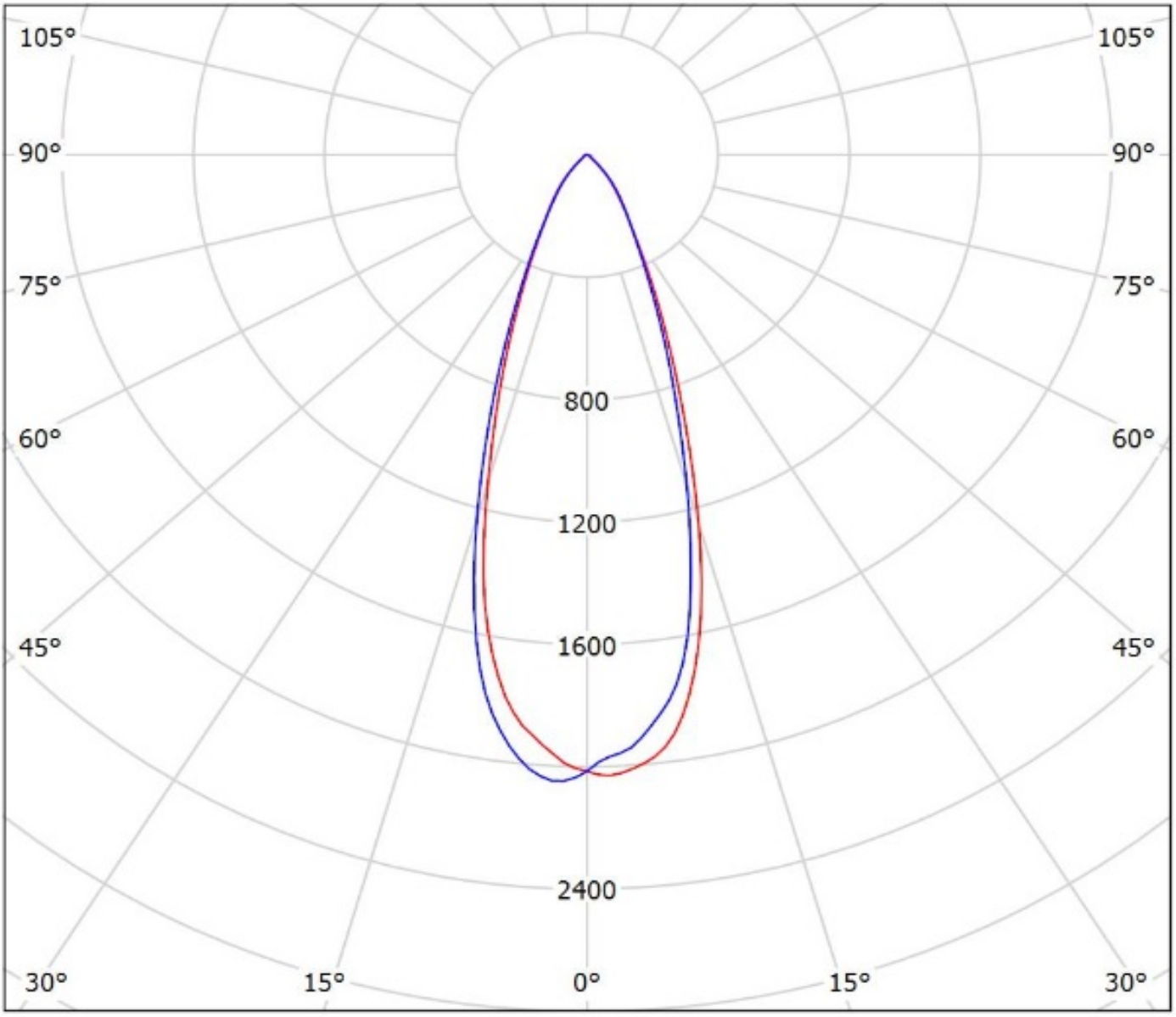


cd/klm

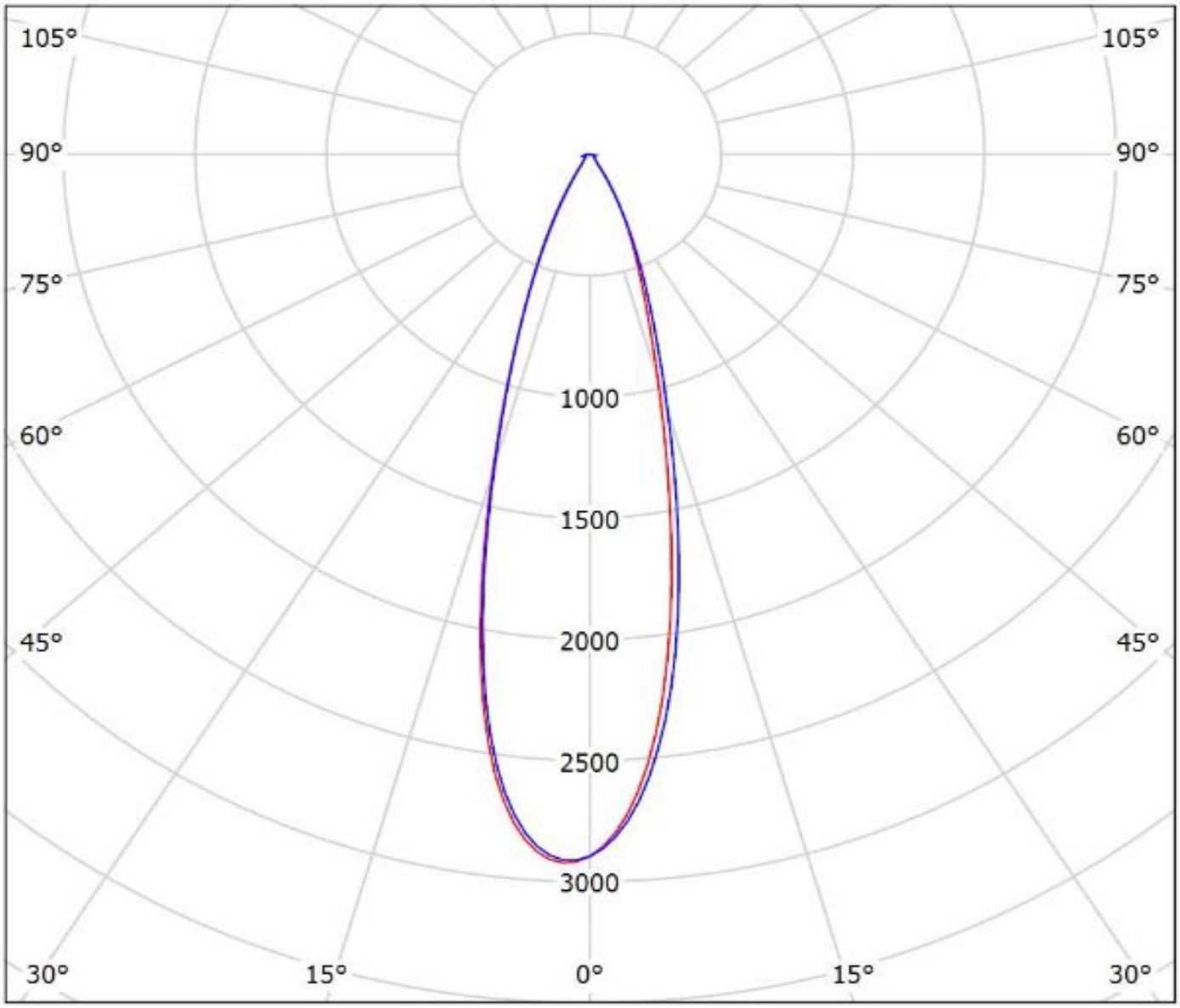
η = 92%

C0 - C180 C90 - C270

Luminaire: Ledil Oy CS14891_HB-IP-2X6-M_(H35C1)_SIMULATED
Lamps: 1 x LG H35C1



Luminaire: Ledil CS14891_HB-IP-2X6-M_(Luxeon_XR-TX)
Lamps: 1 x Luxeon_XR-TX_2x6_1376.06lm@250mA_P=8.3883W_I=0.25A

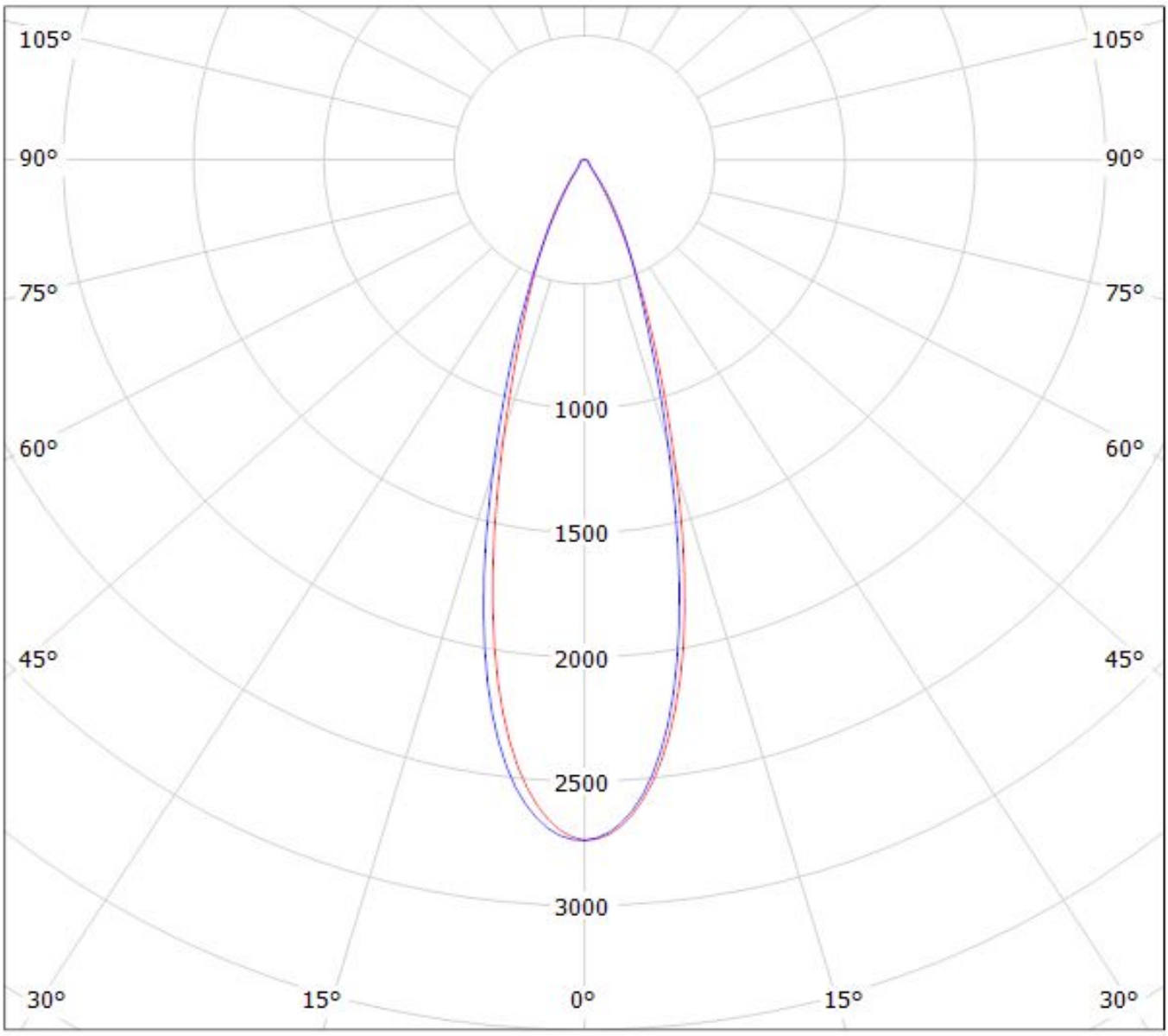


cd/klm

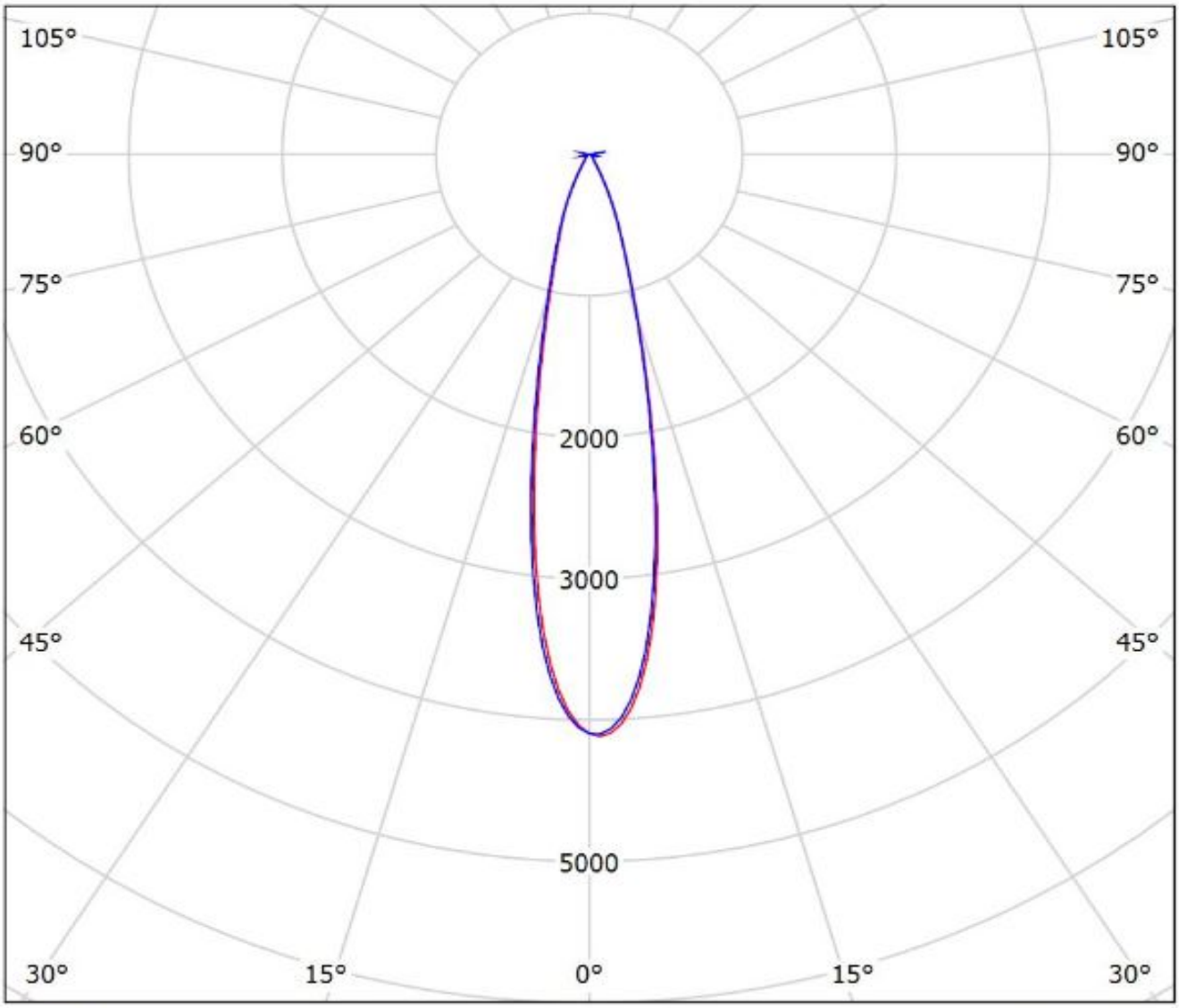
η = 94%

C0 - C180 C90 - C270

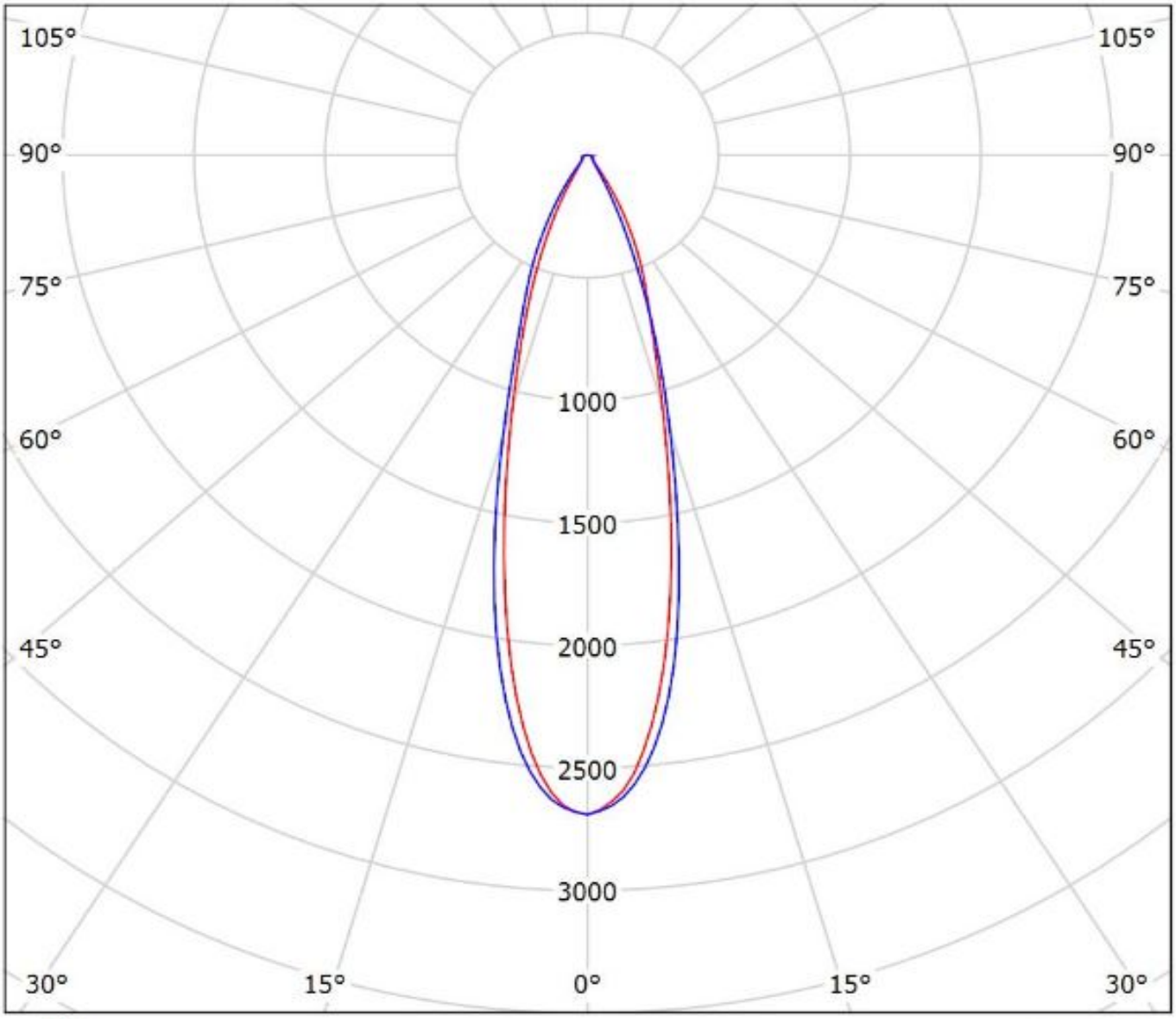
Luminaire: LEDiL Oy CS14891_HB-IP-2X6-M_(Luxeon_T)
Lamps: 1 x Luxeon_T_(LXH8-FW30)_1040.41lm@250mA_P=8.49754W_I=0.250A



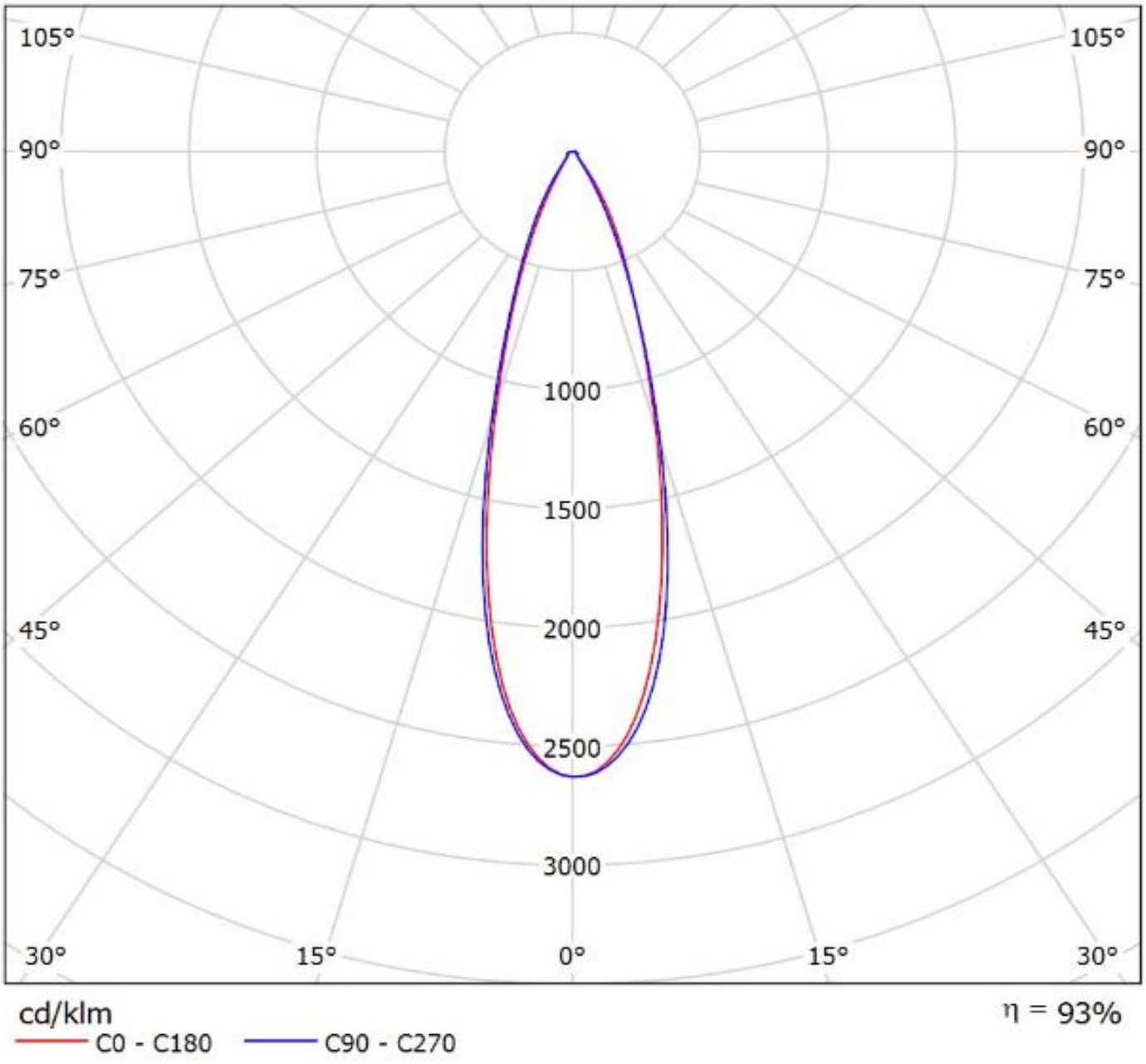
Luminaire: Ledil CS14891_HB-IP-2X6-M_(Nichia_E21)
Lamps: 1 x Nichia_NVSWE21A_601.623lm@600mA_P=3.5001W_I=0.600A



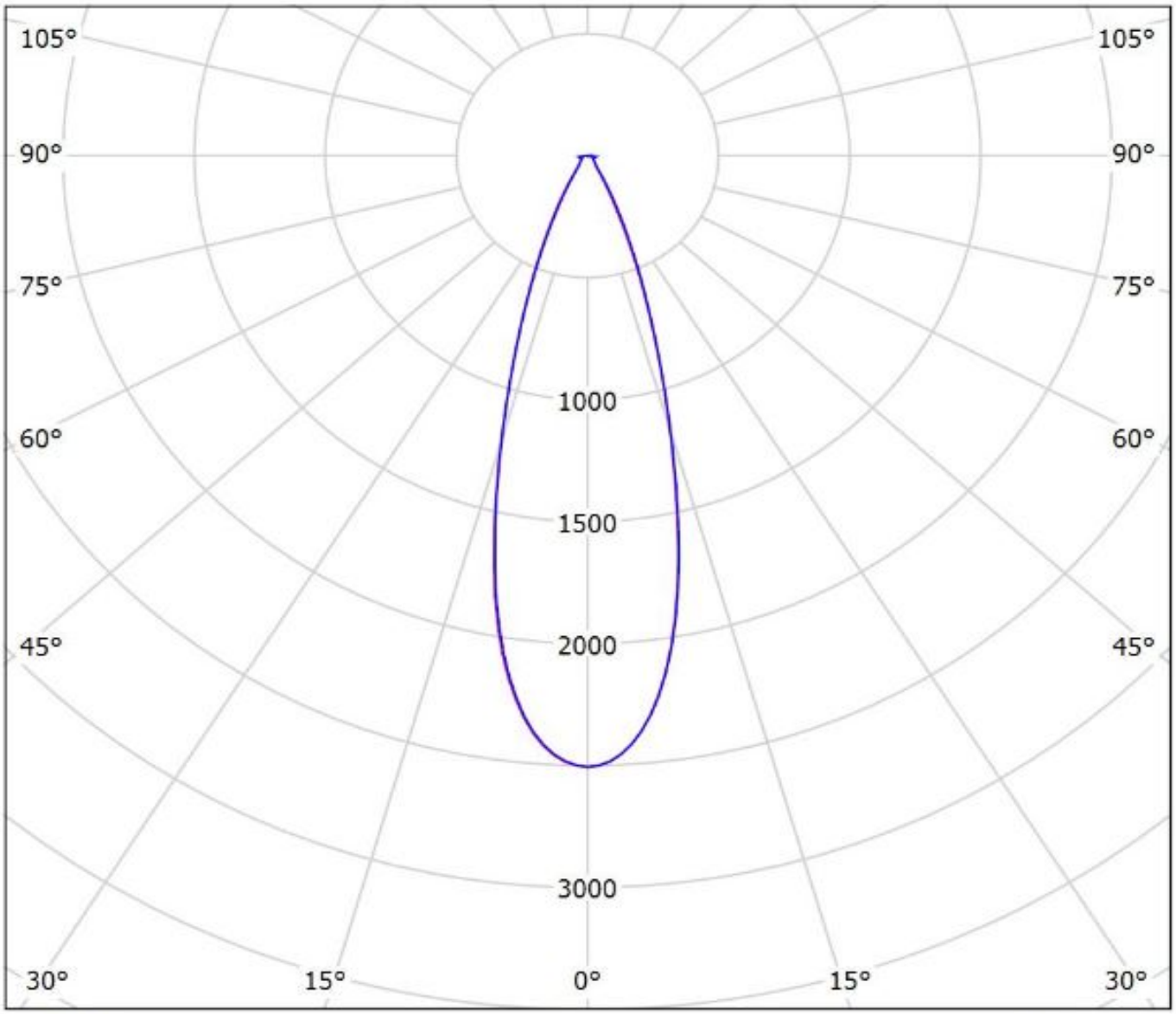
Luminaire: Ledil CS14891_HB-IP-2X6-M_(SQ-PC_2X6)_C1
Lamps: 1 x Oslon_SQ-PC_2X6_1253.97lm@250mA_P=8.87825W_I=0.25A



Luminaire: Ledil CS14891_HB-IP-2X6-M_(Z5M1)
Lamps: 1 x Seoul Z5M1 (SZ5-M1-WW-C8)_1201.44lm@250mA_P=8.63825W_I=0.25A



Luminaire: Ledil CS14891_HB-IP-2X6-M_(Z8Y22_PLUS)
Lamps: 1 x Seoul_Z8Y22_PLUS_2X6_(SZ8-Y22-W0-C7P)1489.65lm@250mA_P=8.30675W_I=0.250A



cd/klm
η = 93%
C0 - C180
C90 - C270

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.