

DETAILS

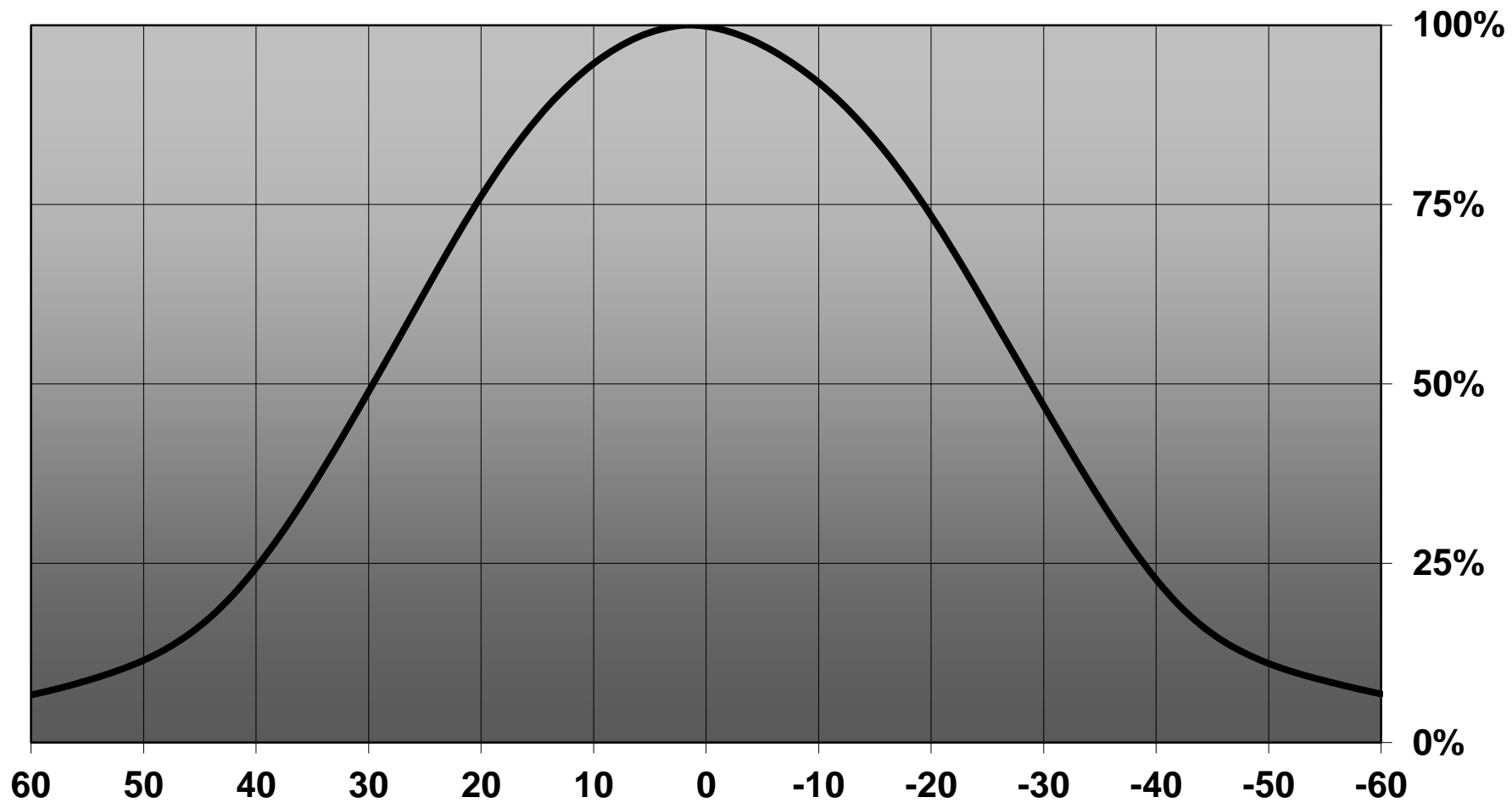
Product Number	CN13990_SAGA-HB-IP-WHT
Family	Saga
Type	Assembly
Color	white
Diameter	50 mm
Height	12 mm
Style	round
Optic Material	HRPC
Holder Material	HRPC
Fastening	screw
Status	ready
ROHS Compliant	Yes
Date Updated	30/04/2015



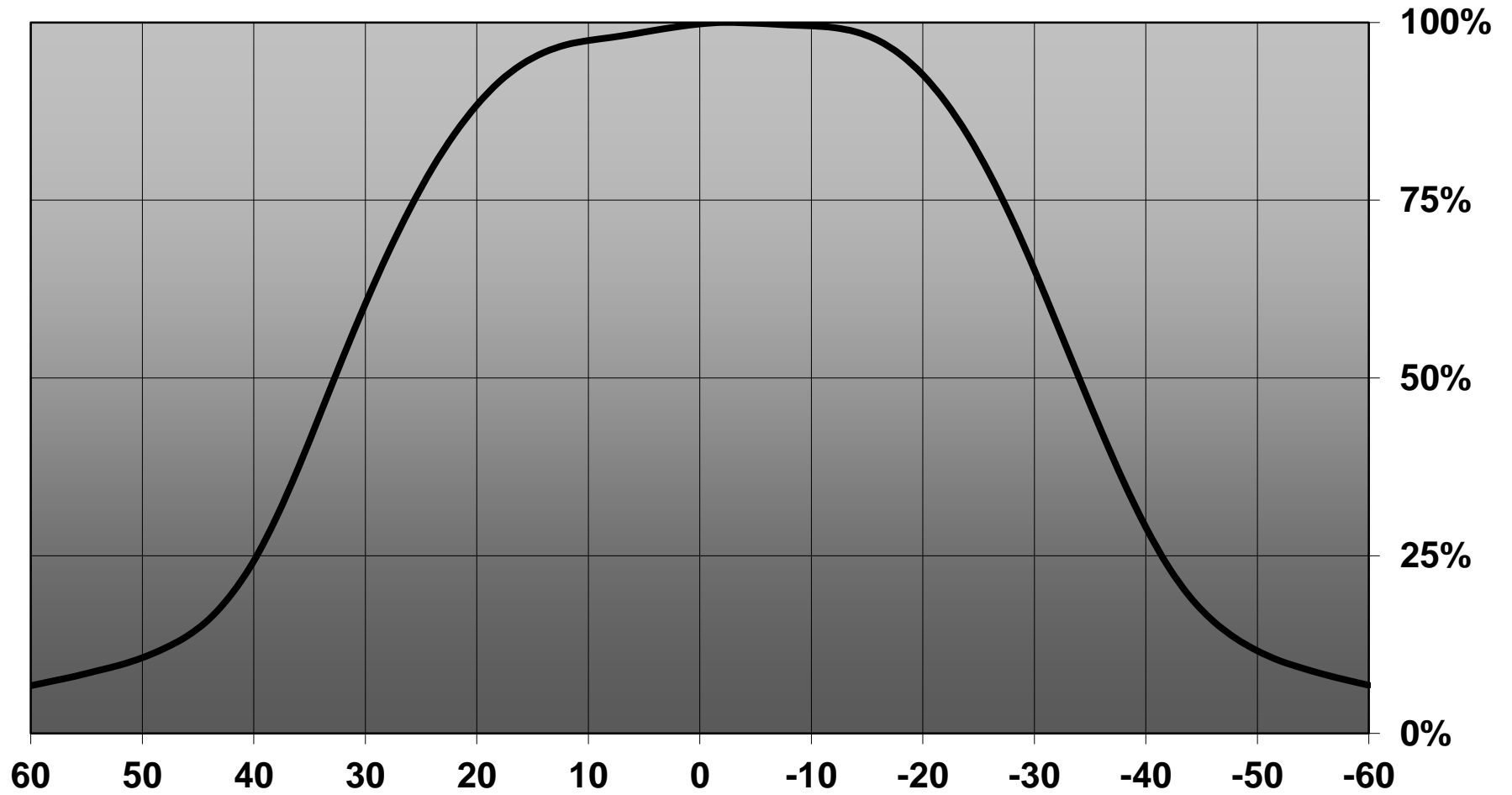
OPTICAL PROPERTIES

LED	Viewing	Light	Effi-		Connector
	Angle	Beam	ciency	cd/lm	
Luxeon CoB 105/107/109	sim: 67	HighBay	sim: 90 %	sim: 0.700	-
CXM-14	sim: 61	HighBay	sim: 84 %	sim: 0.610	Bender Wirth: 433 Typ L5
ZC12/18	sim: 61	HighBay	sim: 84 %	sim: 0.610	Bender Wirth: 433 Typ L5
CXM-9	sim: 47	HighBay	sim: 86 %	sim: 1.000	Bender Wirth: 434 Typ L5
ZC4/6	sim: 47	HighBay	sim: 86 %	sim: 1.000	Bender Wirth: 434 Typ L5
CLU700	46 deg	HighBay	86 %	1.100	Bender Wirth: 434 Typ L5
CLL02x/CLU024	47 deg	HighBay	86 %	1.000	Bender Wirth: 434 Typ L5
CLU720	50 deg	HighBay	85 %	0.850	Bender Wirth: 433 Typ L5
CLU700	56 deg	HighBay	87 %	0.900	-
Soleriq P9	58 deg	HighBay	90 %	0.840	-
CLL02x/CLU024	58 deg	HighBay	91 %	0.860	-
VERO10	58 deg	HighBay	92 %	0.850	-
V10	58 deg	HighBay	89 %	0.830	-
MHD	60 deg	HighBay	90 %	0.780	-
CLL01x	61 deg	HighBay	92 %	0.840	-
Soleriq S13	61 deg	HighBay	91 %	0.800	-
CLU720	61 deg	HighBay	89 %	0.730	-
CLL03x/CLU034	61 deg	HighBay	84 %	0.610	Bender Wirth: 433 Typ L5
Mini Zenigata (GW6BM)	62 deg	HighBay	92 %	0.800	-
CLU710	62 deg	HighBay	90 %	0.700	-
LUXEON CoB 1202/1203	63 deg	HighBay	89 %	0.730	-
CXM-9	63 deg	HighBay	88 %	0.720	-
CXA1816/CXA1820/CXA1850	63 deg	HighBay	90 %	0.730	-
CLL03x/CLU034	64 deg	HighBay	92 %	0.700	-
CXA15xx	64 deg	HighBay	92 %	0.750	-

Relative intensity of CN13990_SAGA-HB-IP-WHT_(V10)

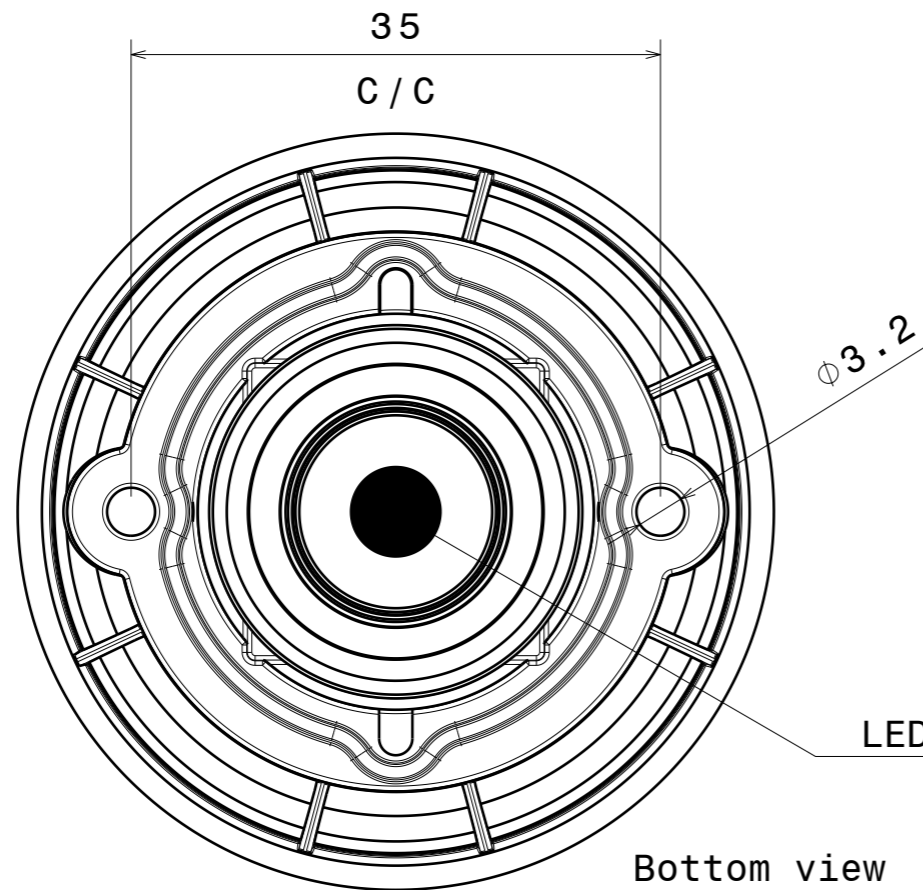


Relative intensity of CN13990_SAGA-HB-IP-WHT_(Luxeon_CoB_mini)

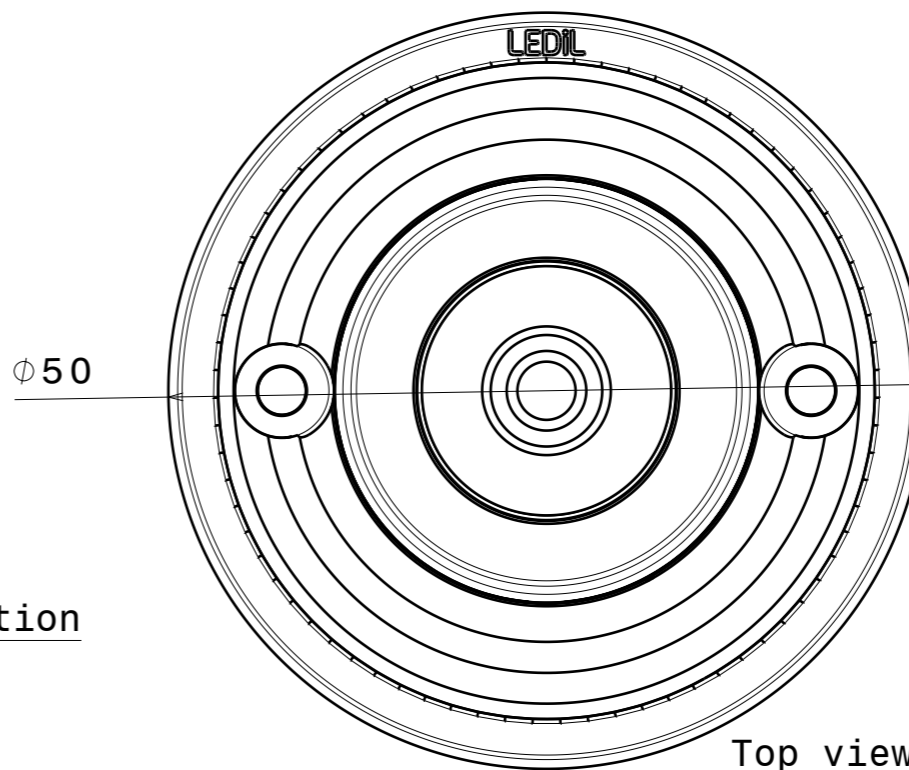


— 1: 0-180

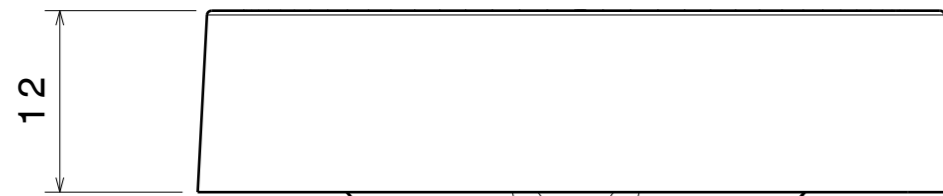
H G F E D C B A



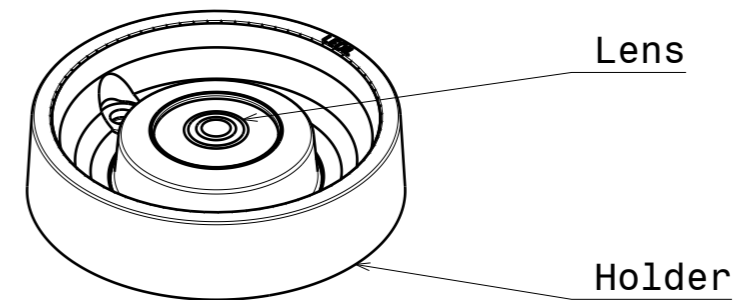
Bottom view
Scale: 2:1



Top view
Scale: 2:1



Front view
Scale: 2:1



Isometric view
Scale: 1:1

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 LediL Oy
Salorankatu 10
FIN 24240 SALO
Finland

THIRD ANGLE PROJECTION:

DRAWING TITLE
CN13990_SAGA-HB-IP-WHT

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of LEDiL Oy. It may not be
reproduced, copied or
communicated without a written
agreement with LEDiL Oy."

SIZE	PART NUMBER
A3	CN13990

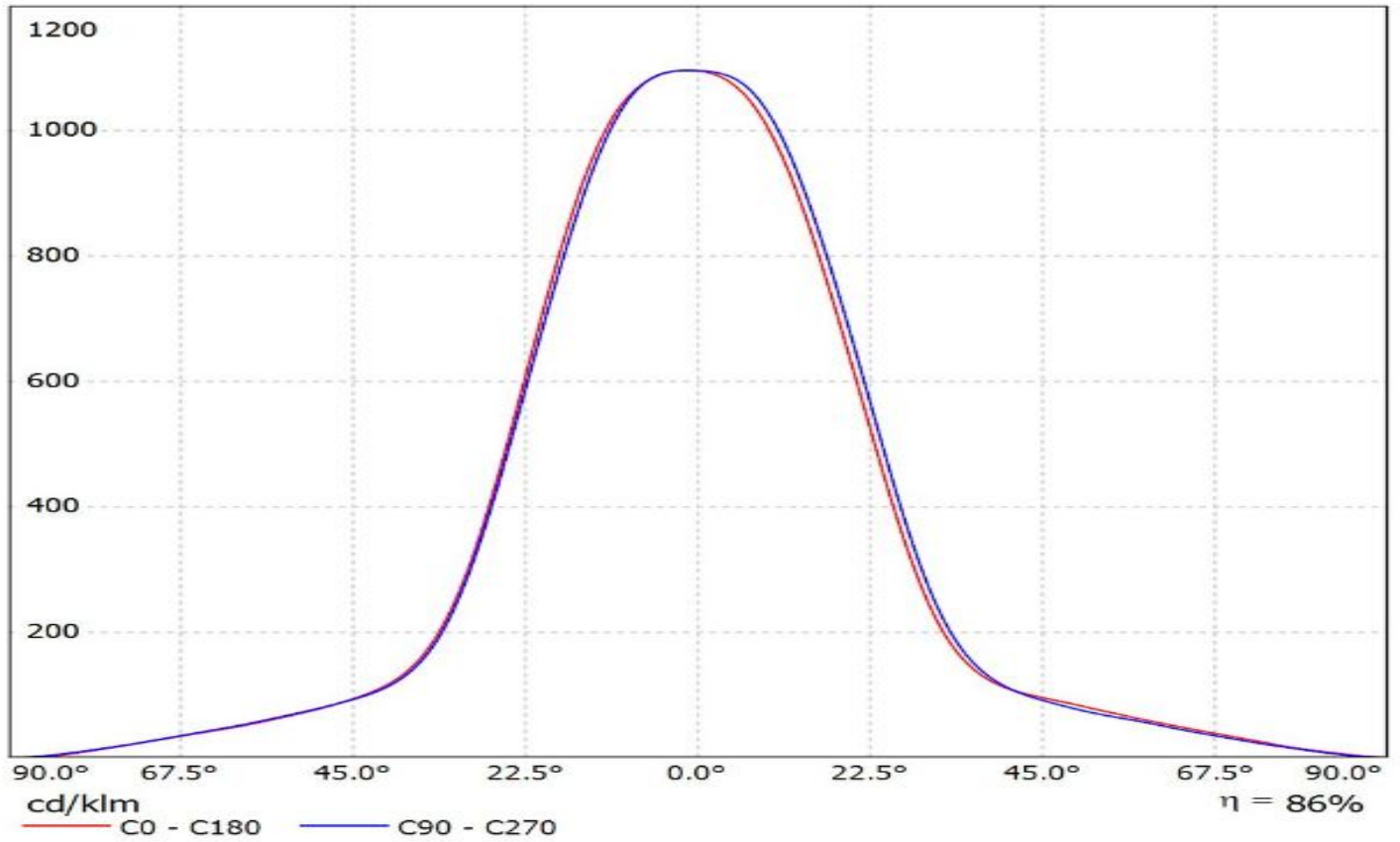
SCALE	2:1	WEIGHT	-	SHEET	1/1
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H G B A

Ledil CN13990_SAGA-HB-IP-WHT_(CLU700) / LDC (Linear)

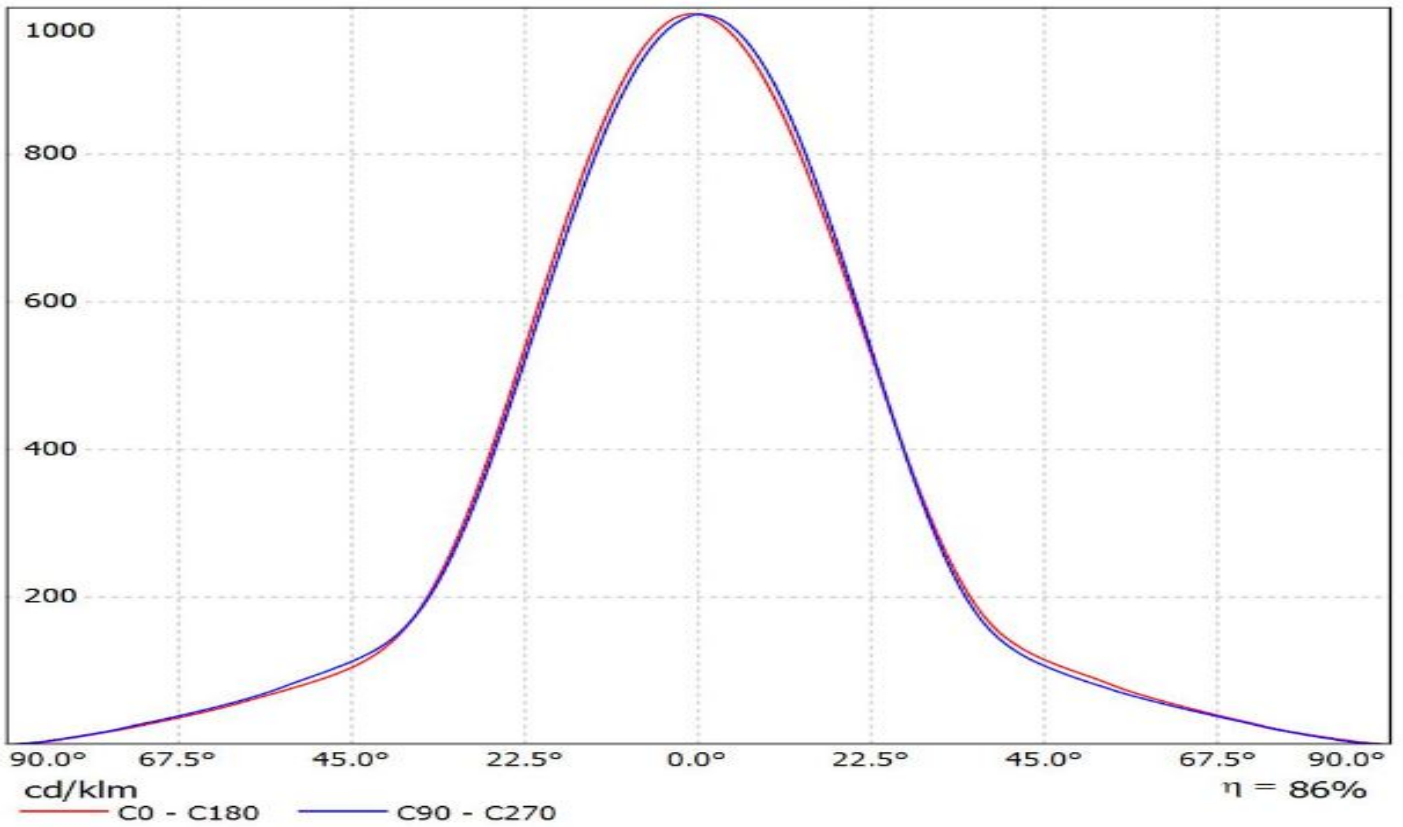
Luminaire: Ledil CN13990_SAGA-HB-IP-WHT_(CLU700)

Lamps: 1 x Citizen_CLU700_(CLU700-1002B8-273M2G1)_392.46lm@100mA_P=2.8255W_I=0.1A



Ledil CN13990_SAGA-HB-IP-WHT_(CLU024) / LDC (Linear)

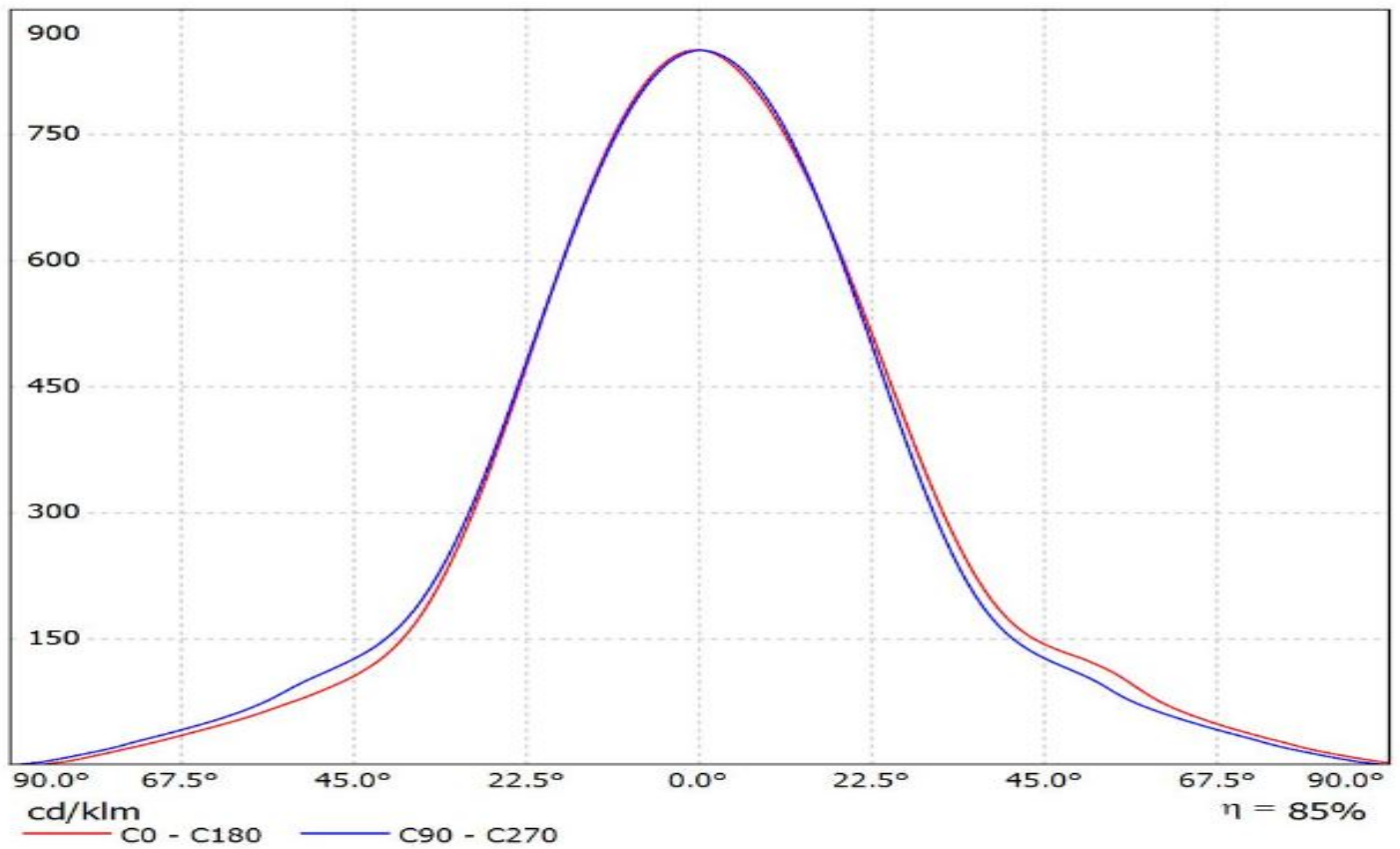
Luminaire: Ledil CN13990_SAGA-HB-IP-WHT_(CLU024)
Lamps: 1 x Citizen_CLU024_(CLU024-1204B8-303M1A2)
_1071.67lm@250mA_CCT=3000K_P=8.56W_I=0.25A



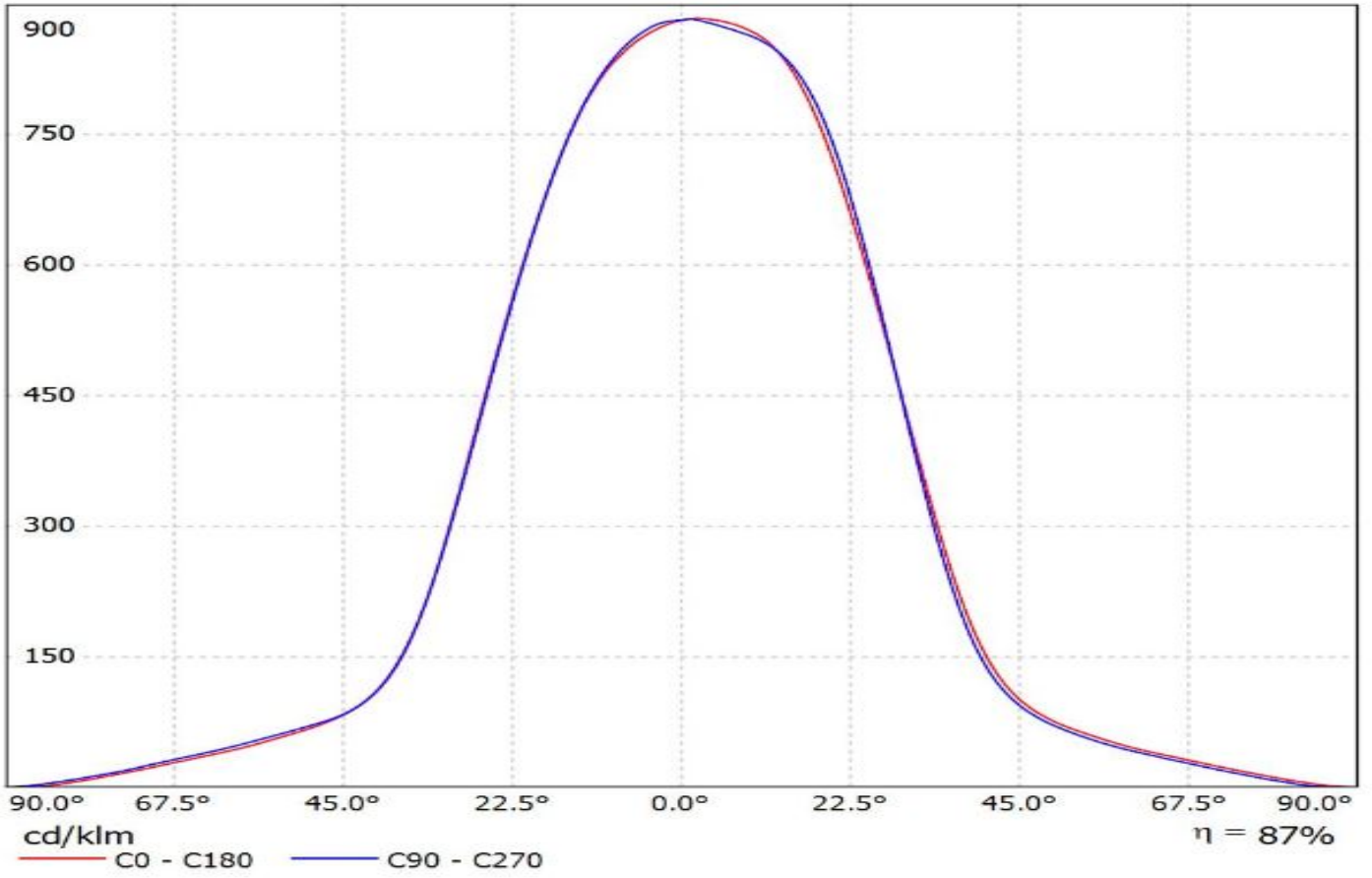
Ledil CN13990_SAGA-HB-IP-WHT_(CLU720) / LDC (Linear)

Luminaire: Ledil CN13990_SAGA-HB-IP-WHT_(CLU720)

Lamps: 1 x Citizen_CLU720_(CLU720-1206B8-273M2G1)_1253.68lm@250mA_P=8.3W_I=0.25A

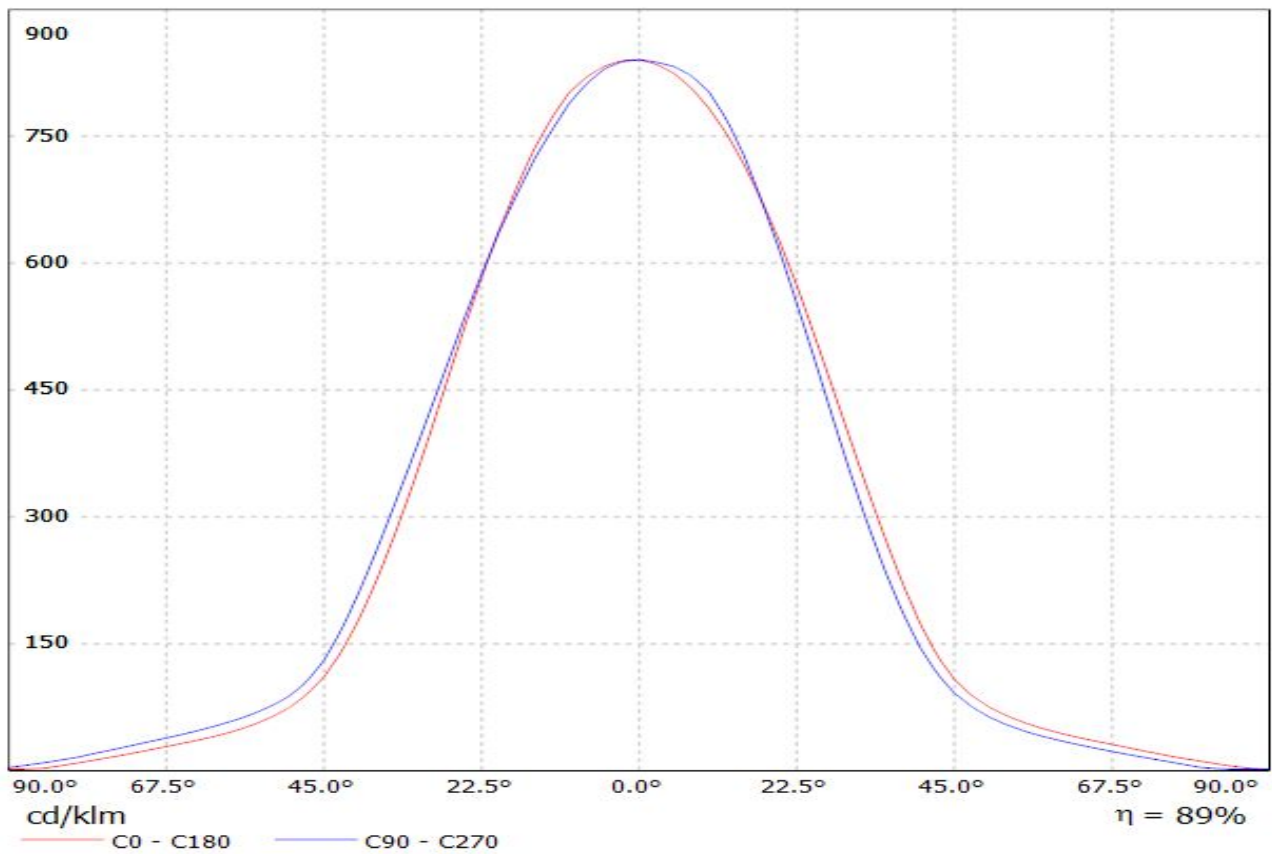


Luminaire: Ledil CN13990_SAGA-HB-IP-WHT_(CLU700)
Lamps: 1 x Citizen_CLU700_394.637lm@100mA_P=2.8W_I=0.10A

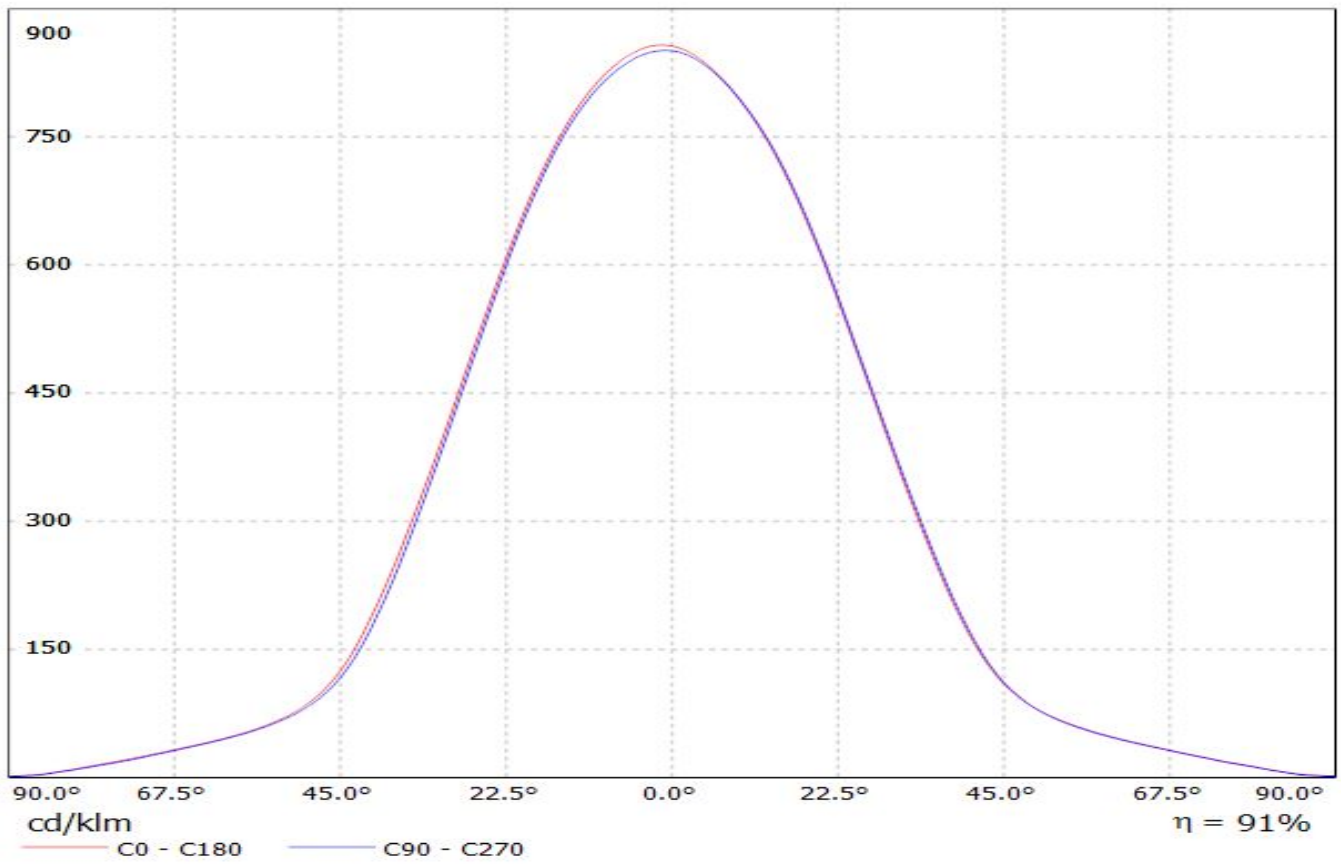


Luminaire: LEDiL Oy CN13990_SAGA-HB-IP-WHT_(Soleriq_P9)

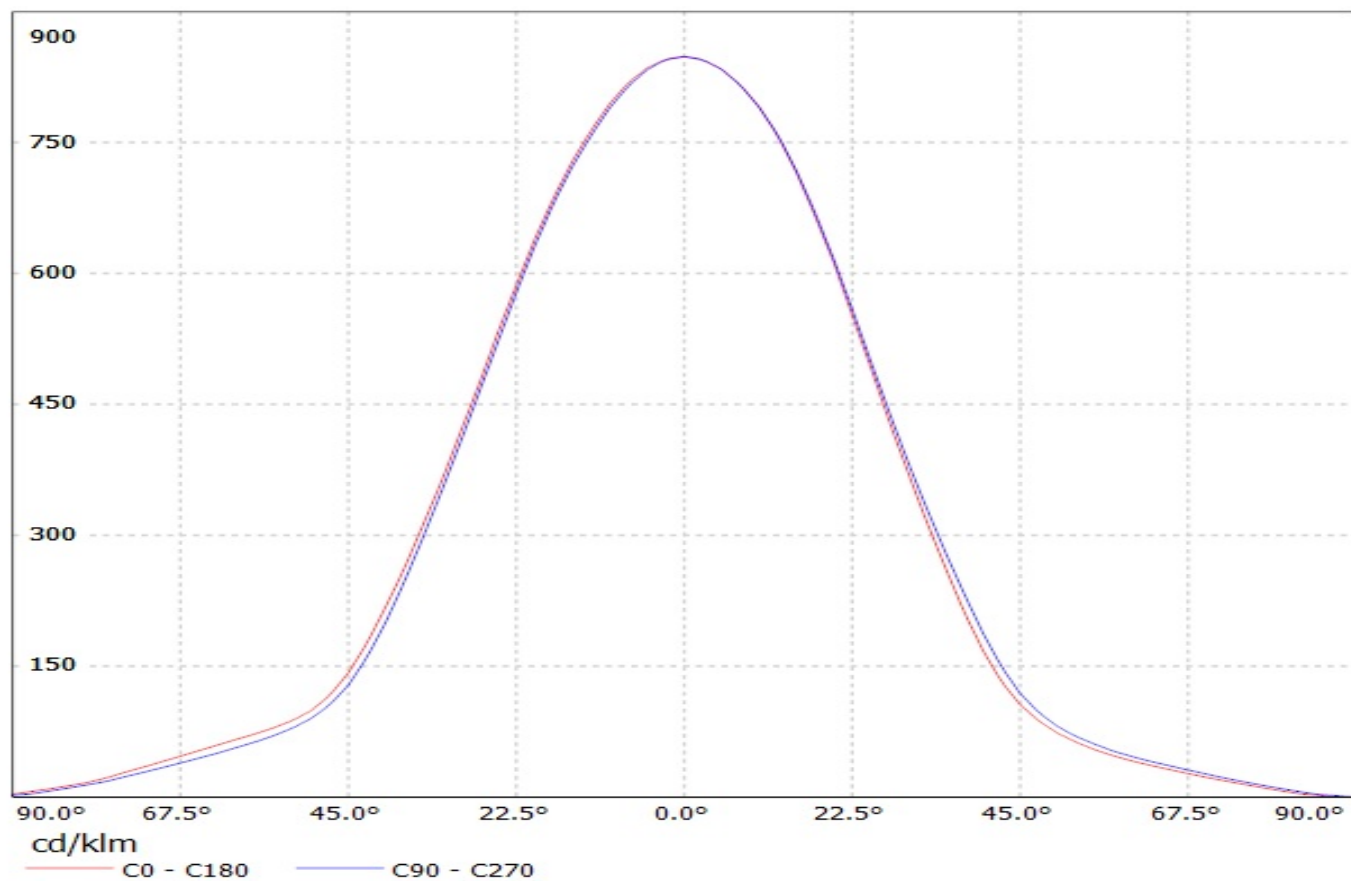
Lamps: 1 x Osram_Soleriq_P9_(GW_MAFJB1.EM)_387.221lm@100mA_CCT=4299K_P=2.73123W_I=100.1mA



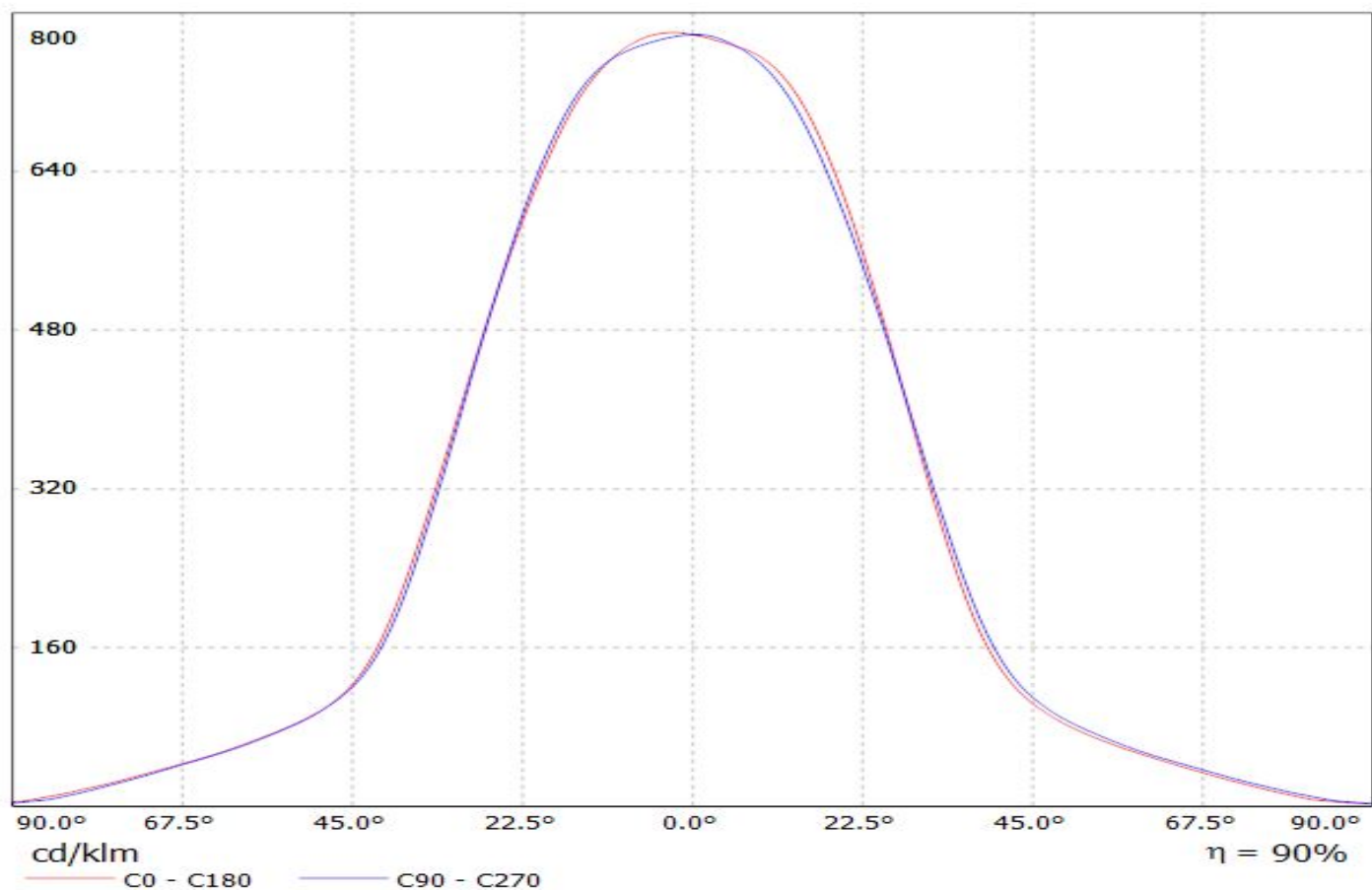
Luminaire: LEDiL Oy CN13990_SAGA-HB-IP-WHT_(CLL020) Eff.90.5%
Lamps: 1 x CITIZEN_CLL020-1203A1_747.329lm@250mA_P=9.28656W_I=249.8mA



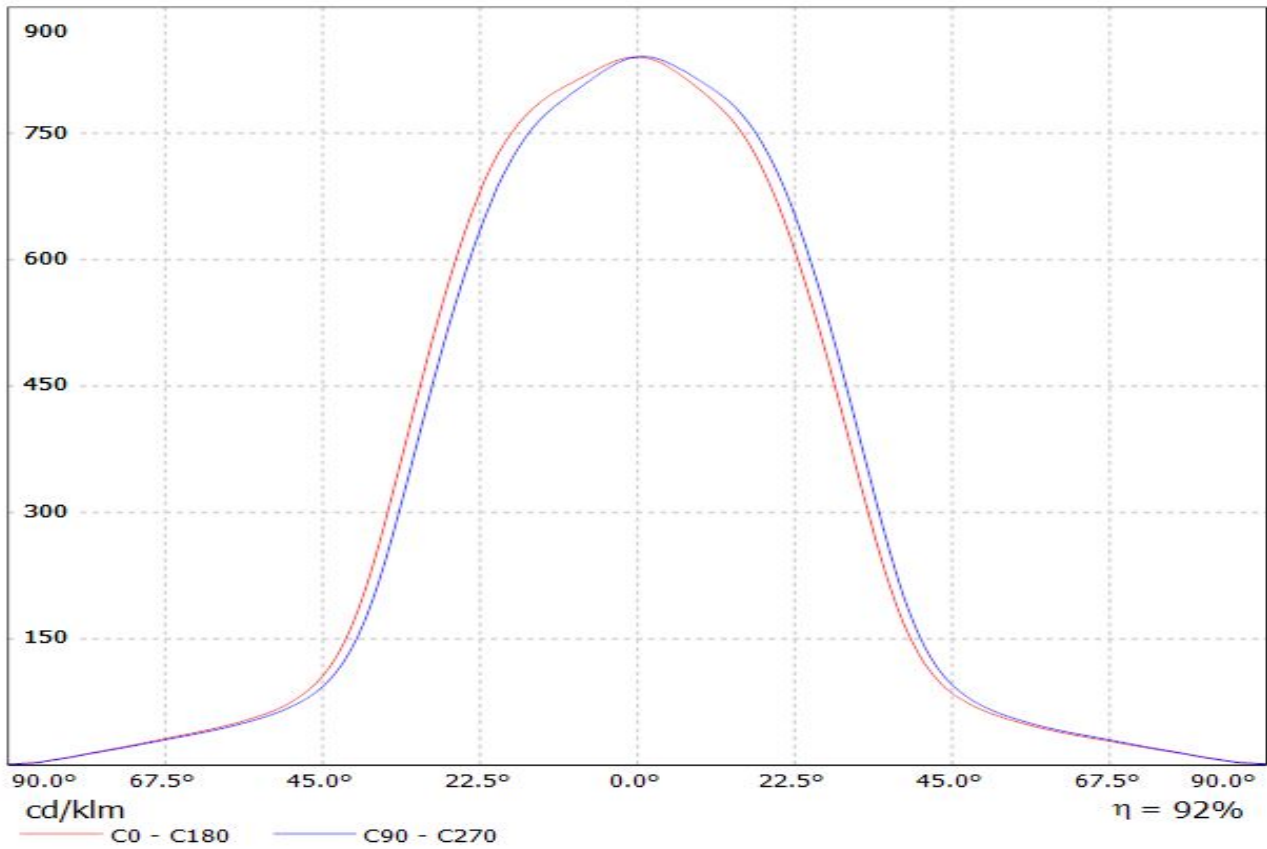
Luminaire: LEDiL Oy CN13990_SAGA-HB-IP-WHT_(VERO10) Eff.92%
Lamps: 1 x VERO10_(BXRC-30E1000B)_625lm@250mA_CCT=3000K_P=6.18827W_I=249.9mA



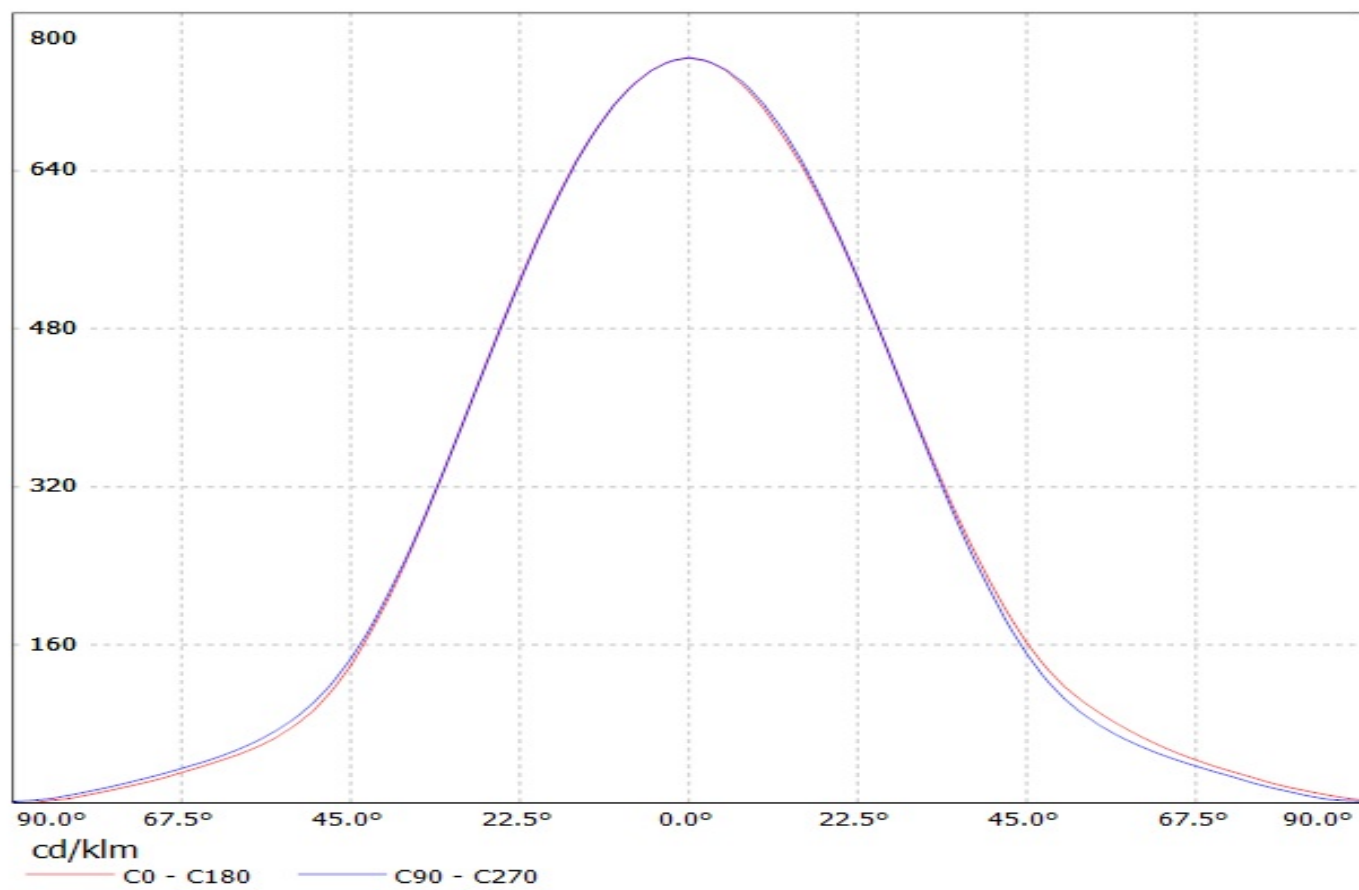
Luminaire: Ledil CN13990_SAGA-HB-IP-WHT_(MHD-G)
Lamps: 1 x Cree MHD-G_530.44lm@100mA_P=3.0W_I=0.100A



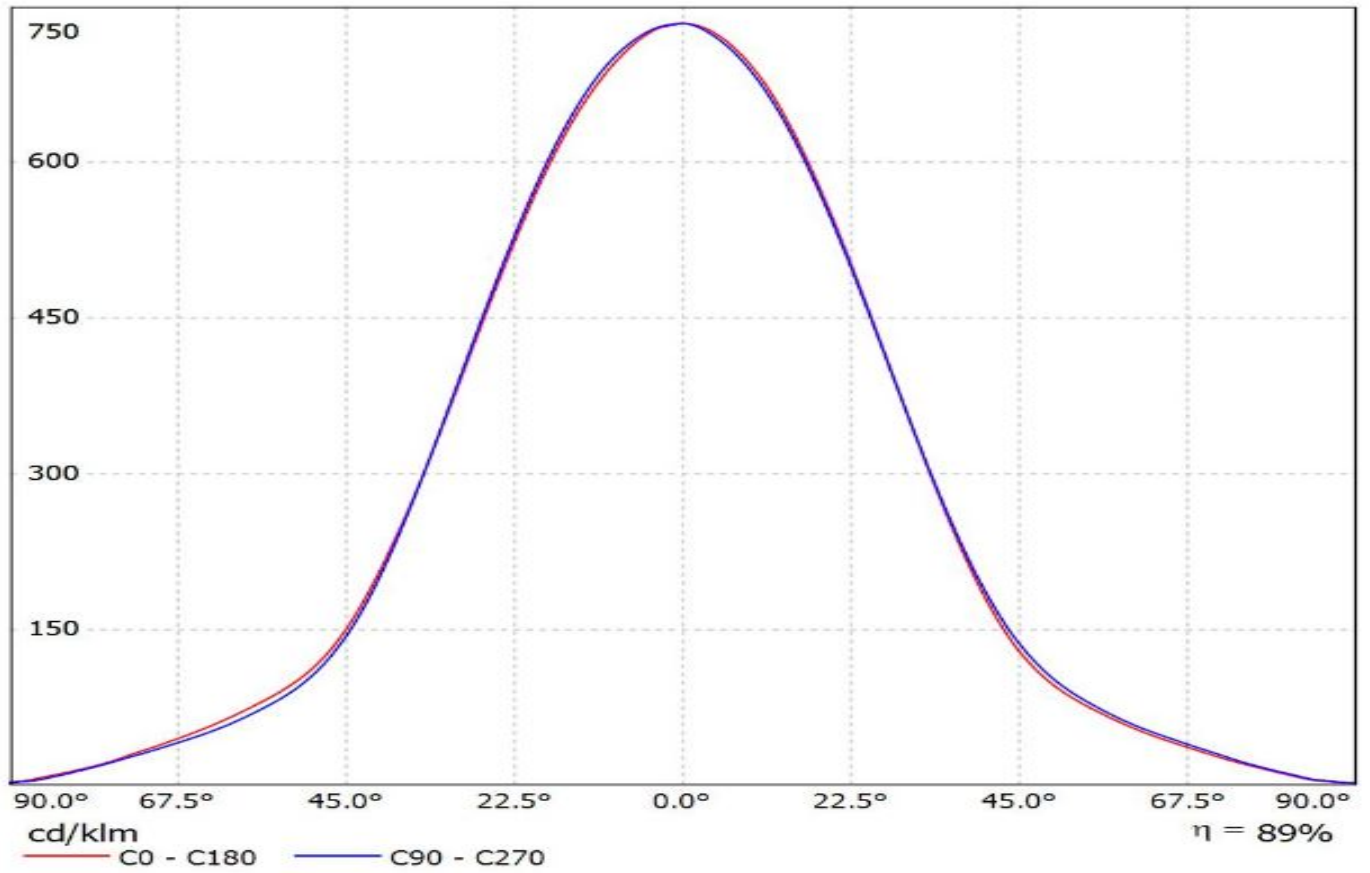
Luminaire: LEDiL Oy CN13990_SAGA-HB-IP-WHT_(CLL010)_2 Eff.91.5%
Lamps: 1 x CITIZEN_CLL010-0305A1-303M1A2_205.695lm@250mA_P=2.27208W_I=249.8mA



Luminaire: LEDiL Oy CN13990_SAGA-HB-IP-WHT_(Soleriq_S13) Eff.91.2%
Lamps: 1 x Osram_Soleriq_S13_832.881lm@250mA_CCT=3125K_P=7.32389W_I=249.8mA



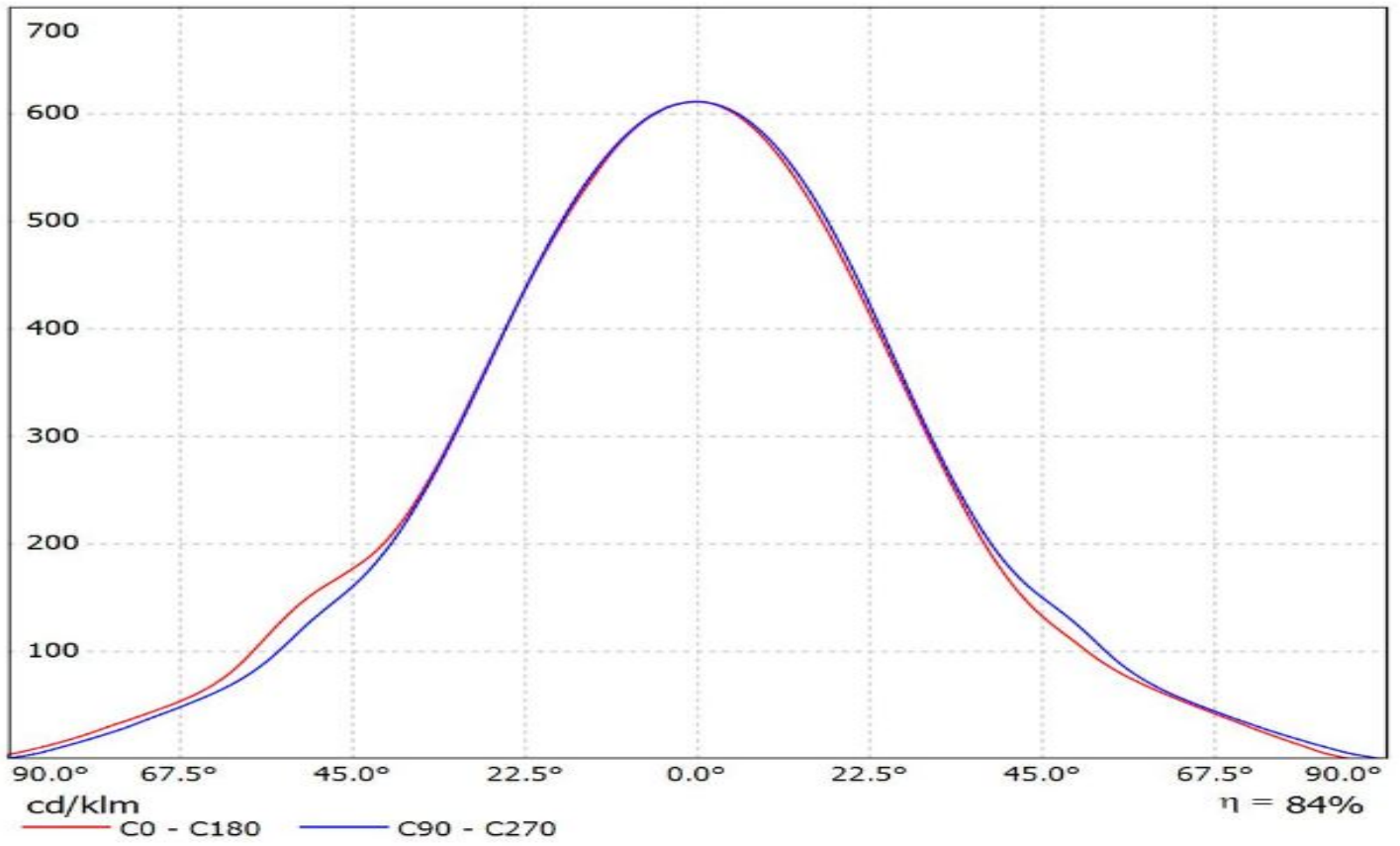
Luminaire: Ledil CN13990_SAGA-HB-IP-WHT_(CLU720)
Lamps: 1 x CITIZEN_CLU720_(CLU720-1206B8-273M2)
_1298.17lm@250mA_CCT=2700K_P=8.3W_I=0.25A



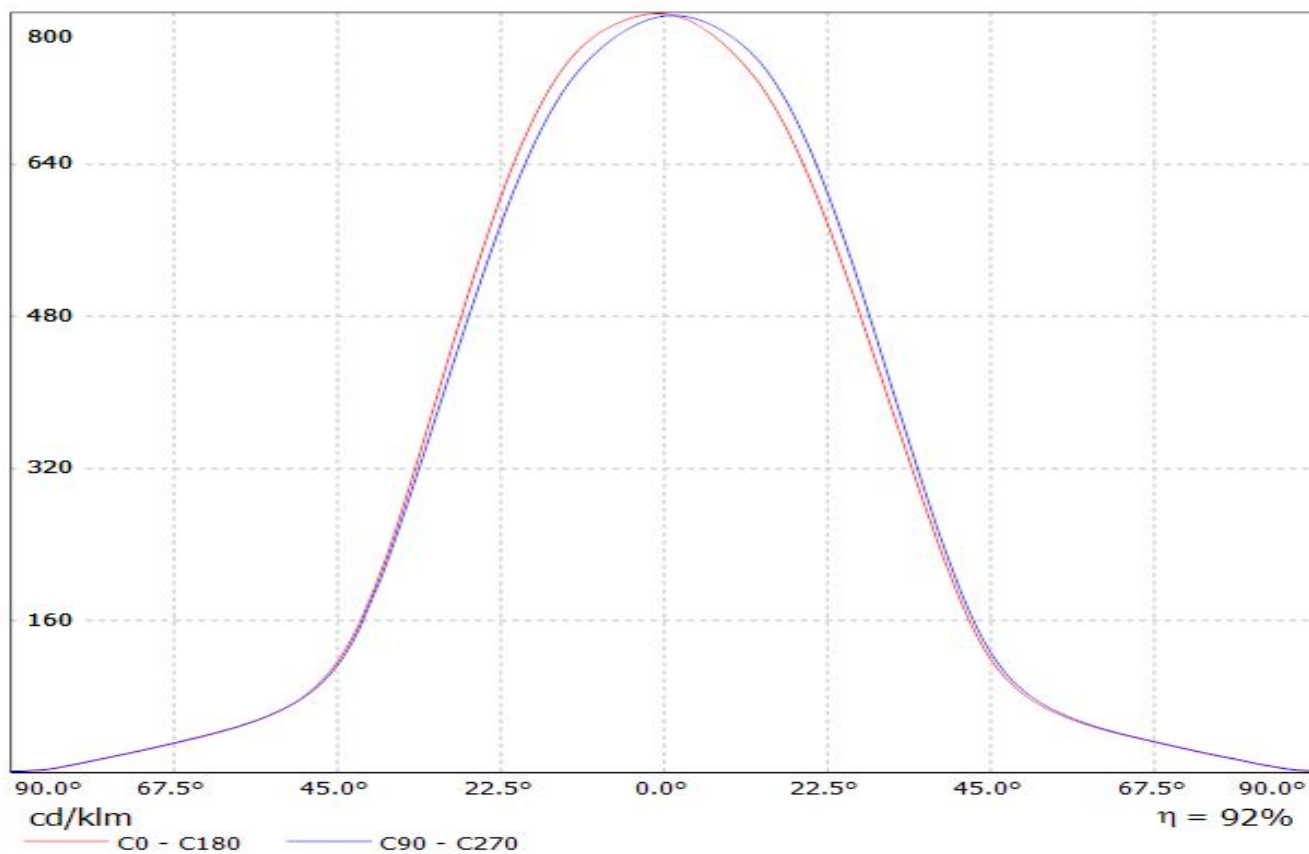
Ledil CN13990_SAGA-HB-IP-WHT_(CLU034) / LDC (Linear)

Luminaire: Ledil CN13990_SAGA-HB-IP-WHT_(CLU034)

Lamps: 1 x Citizen_CLU034_(CLU034-1205B8-303M1A2)_1190.41lm@250mA_P=8.5W_I=0.25A



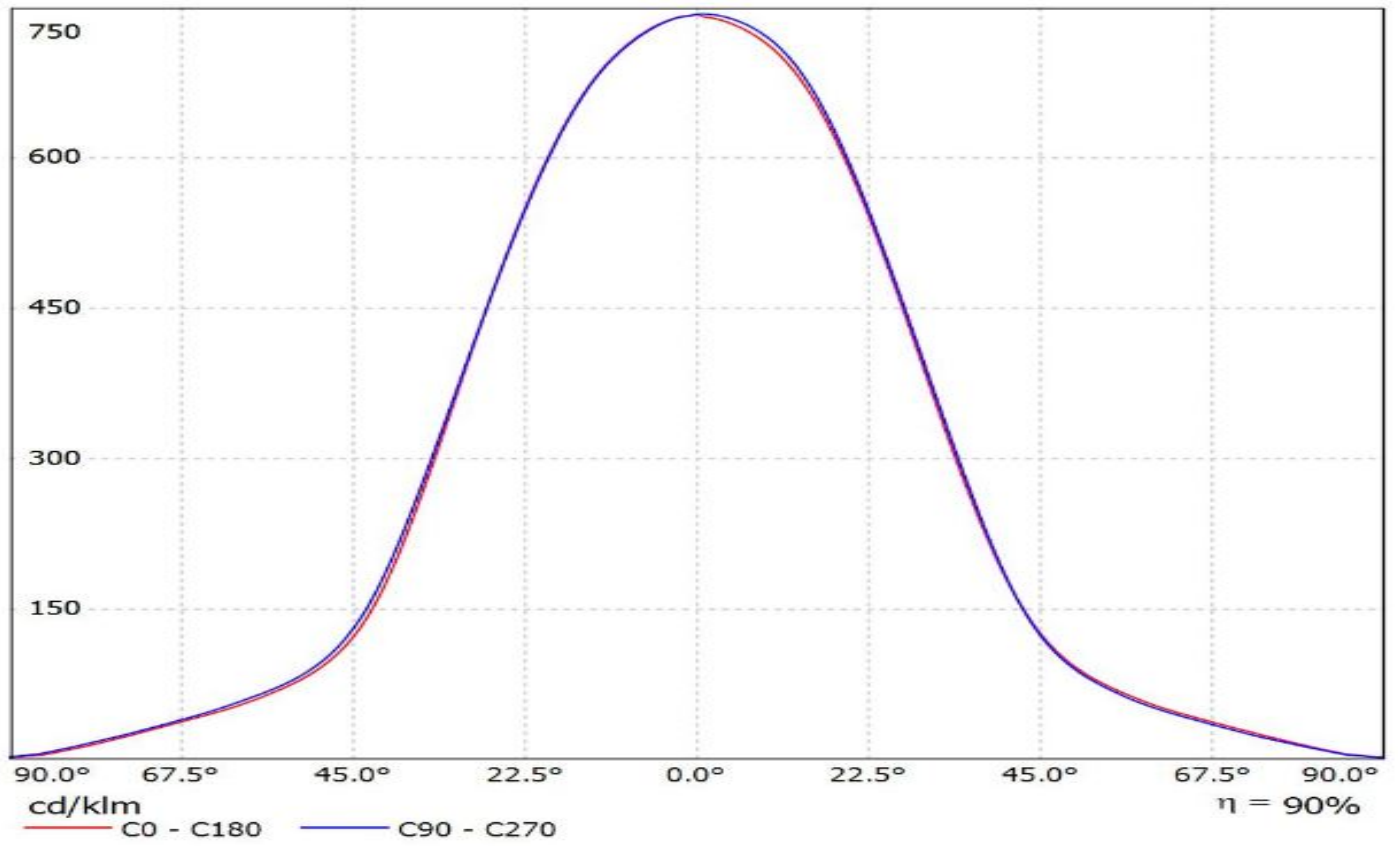
Luminaire: LEDiL Oy CN13990_SAGA-HB-IP-WHT_(MINIZENIGATA) Eff.91.8%
Lamps: 1 x MINIZENIGATA_(6W6BR30HGD)_792.234lm@250mA_P=8.65382W_I=249.8mA



Ledil CN13990_SAGA-HB-IP-WHT_(CLU710) / LDC (Linear)

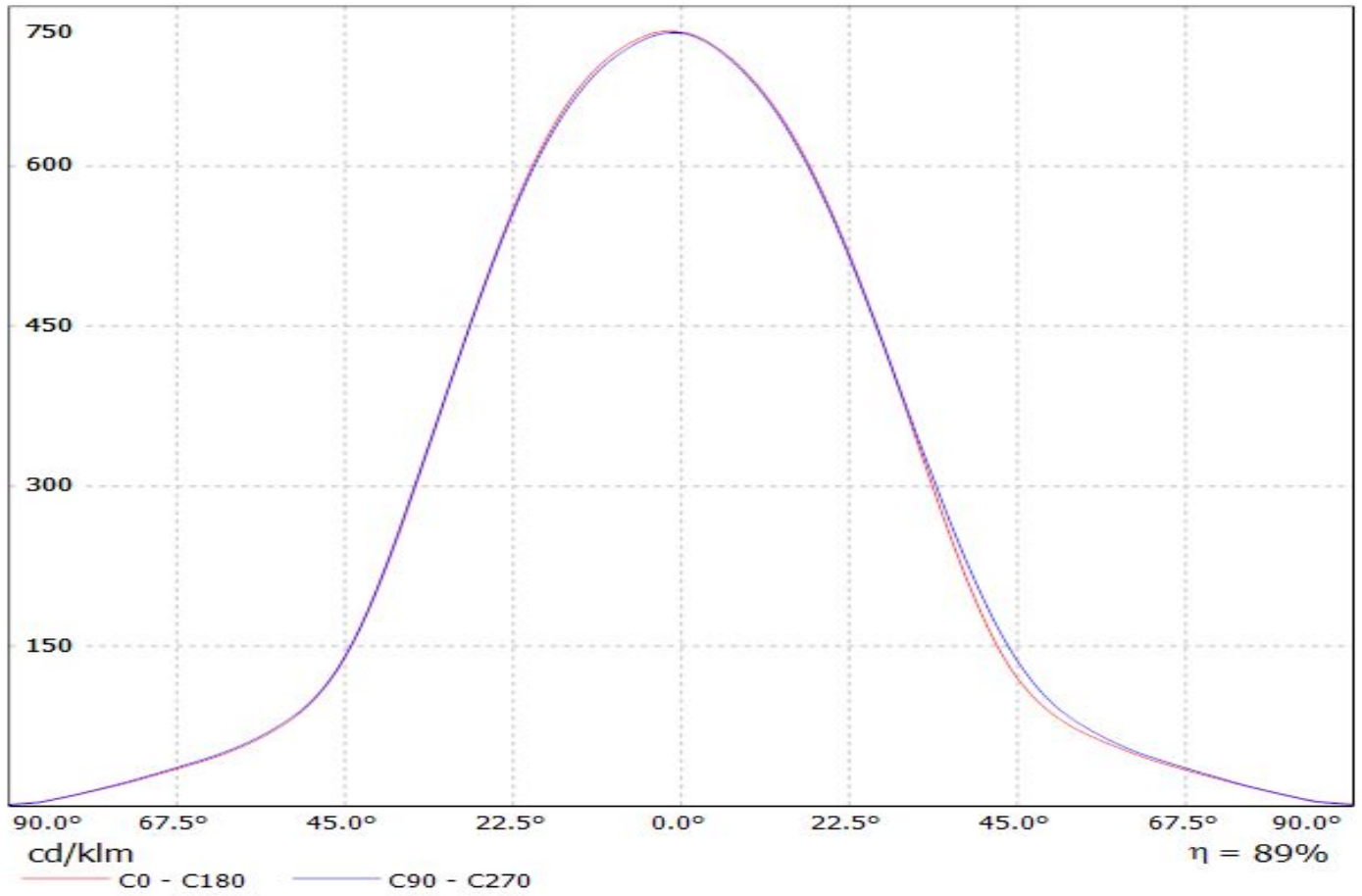
Luminaire: Ledil CN13990_SAGA-HB-IP-WHT_(CLU710)

Lamps: 1 x CITIZEN_CLU710_(CLU710-1204B8-273M2G1)_1210.56lm@250mA_P=8.5W_I=0.25A



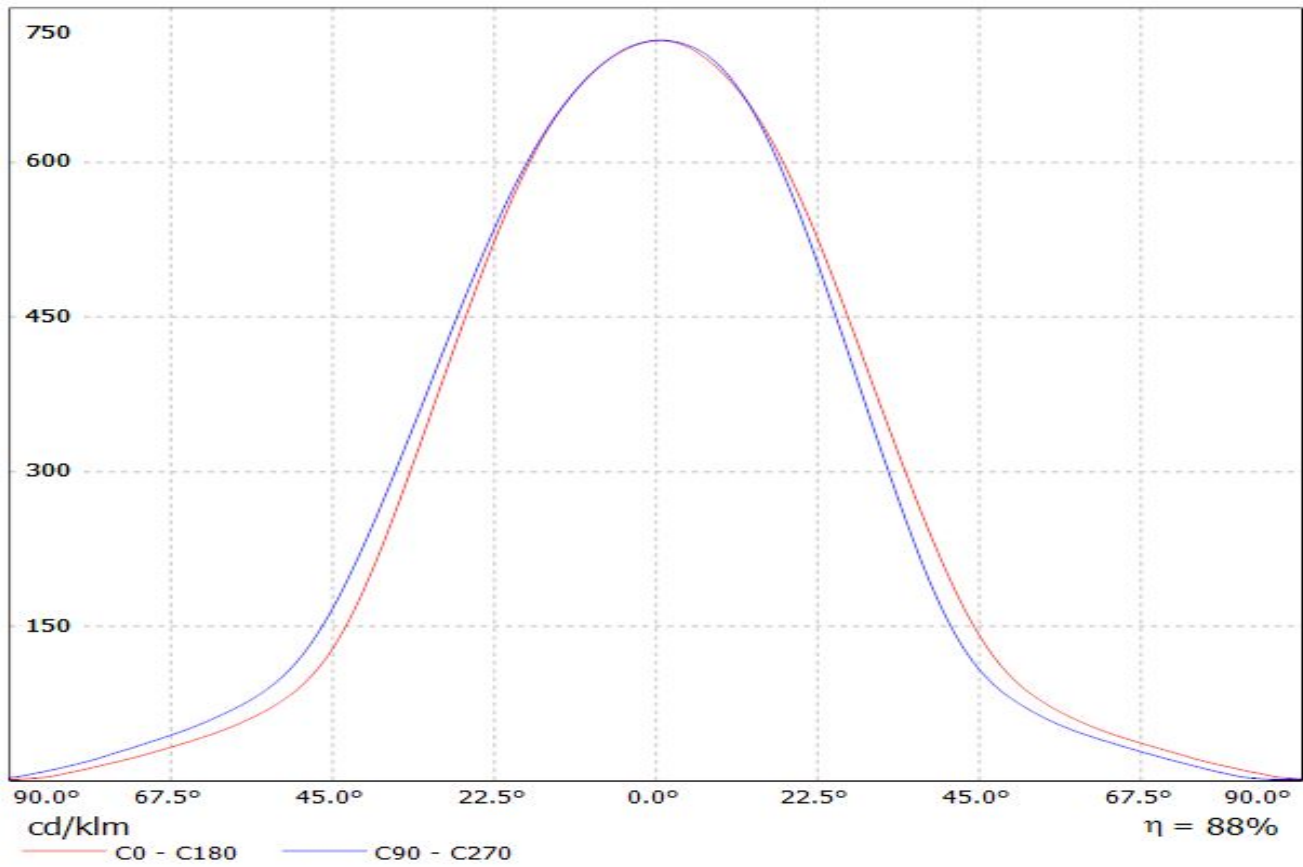
Luminaire: LEDiL Oy CN13990_SAGA-HB-IP-WHT_(LUXEON_COB-1203)

Lamps: 1 x LUXEON_COB-1203_(LHC1-3080-1203)_988.777lm@250mA_CCT=3000K_P=8.6W_I=0.25A

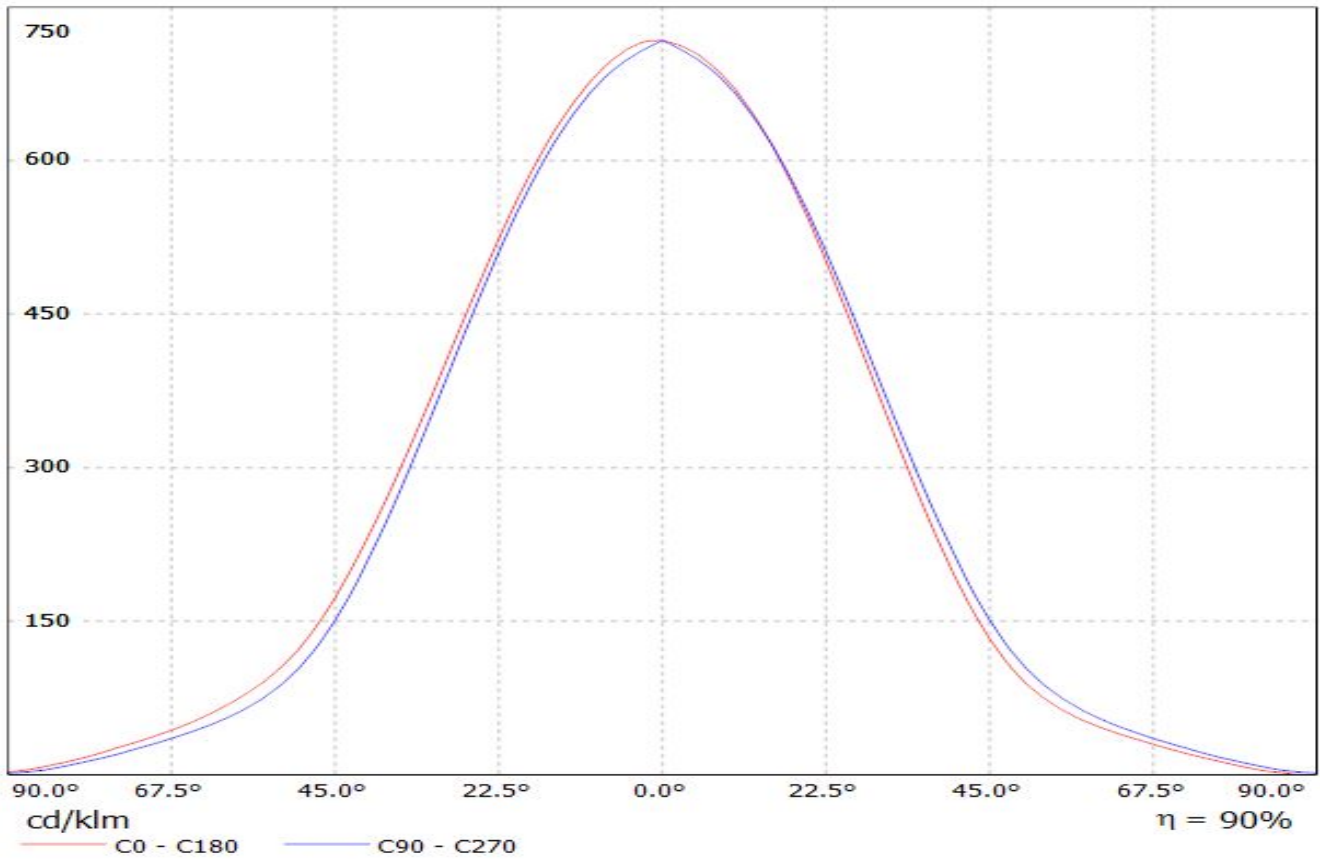


Luminaire: LEDiL Oy CN13990_SAGA-HB-IP-WHT

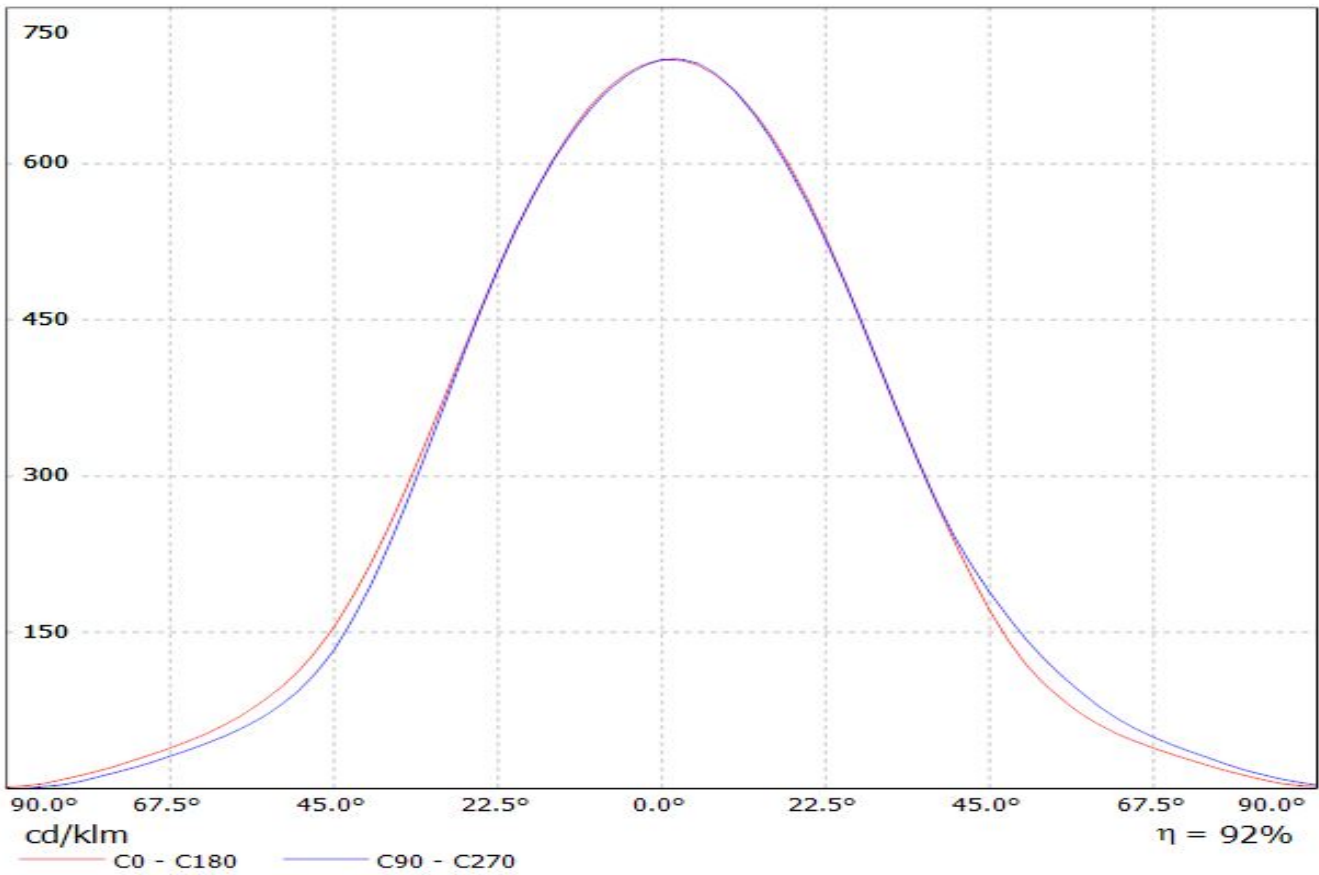
Lamps: 1 x Luminus_XNOVA_CXM-9_(AA00)_945.175lm@240mA_P=8.21232W_I=240mA



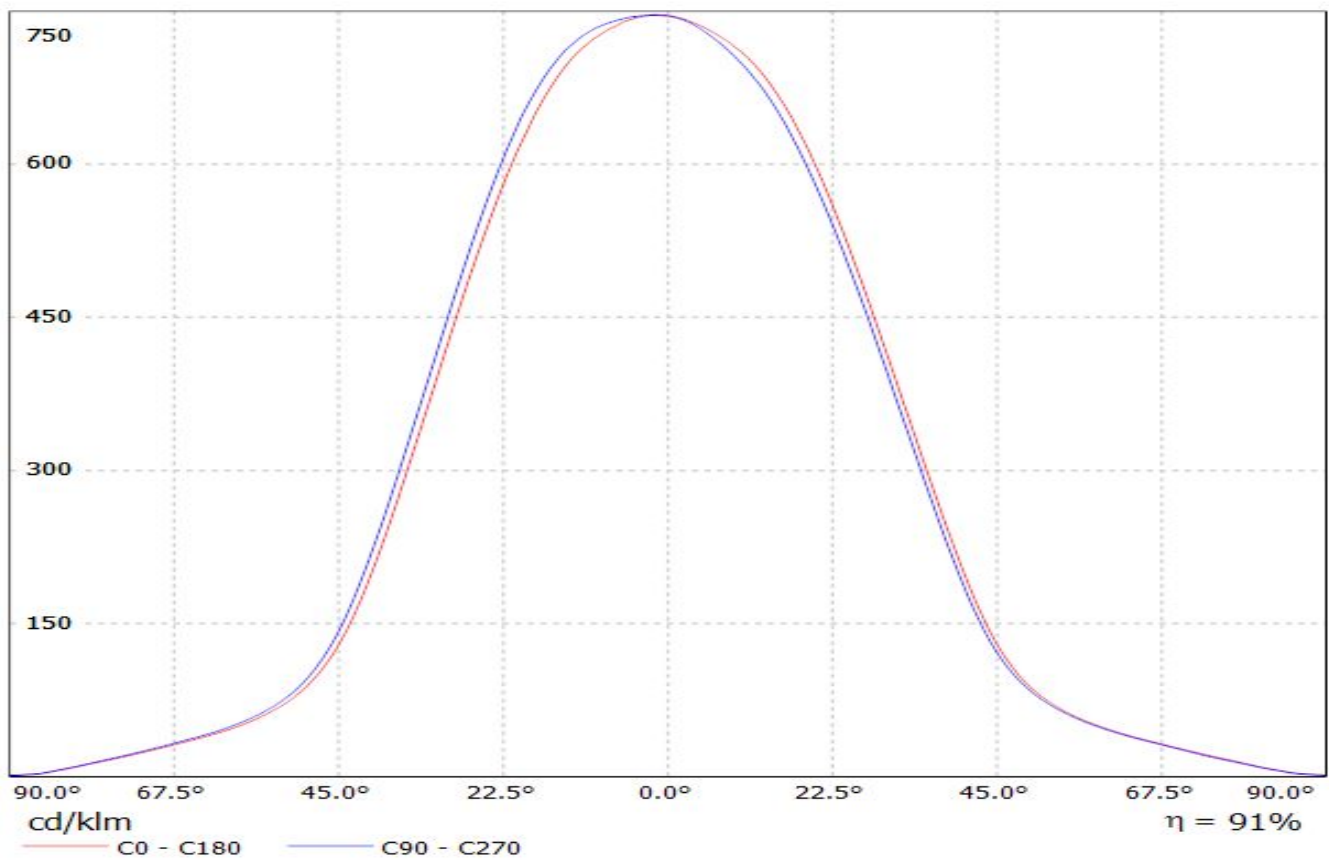
Luminaire: LEDiL Oy CN13990_SAGA-HB-IP-WHT_(CXA1816) Eff. 90%
Lamps: 1 x Cree_CXA1816_1049.36lm@250mA_P=8.6161W_I=249.8mA



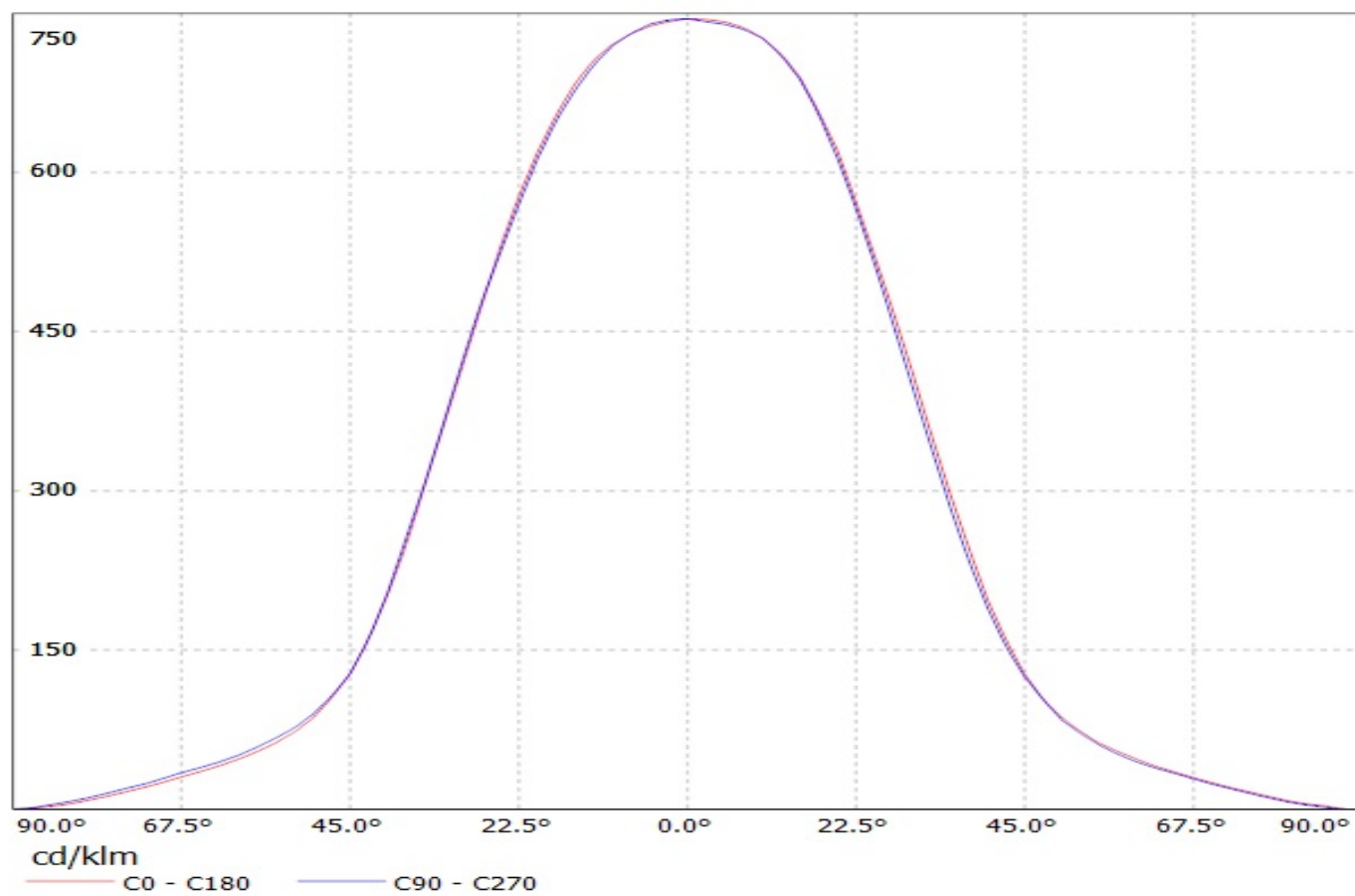
Luminaire: LEDiL Oy CN13990_SAGA-HB-IP-WHT_(CLL030-1206A1) Eff.92.0%
Lamps: 1 x CLL030-1206A1_(303M1A2)_802.683lm@250mA_P=8.76248W_I=249.8mA



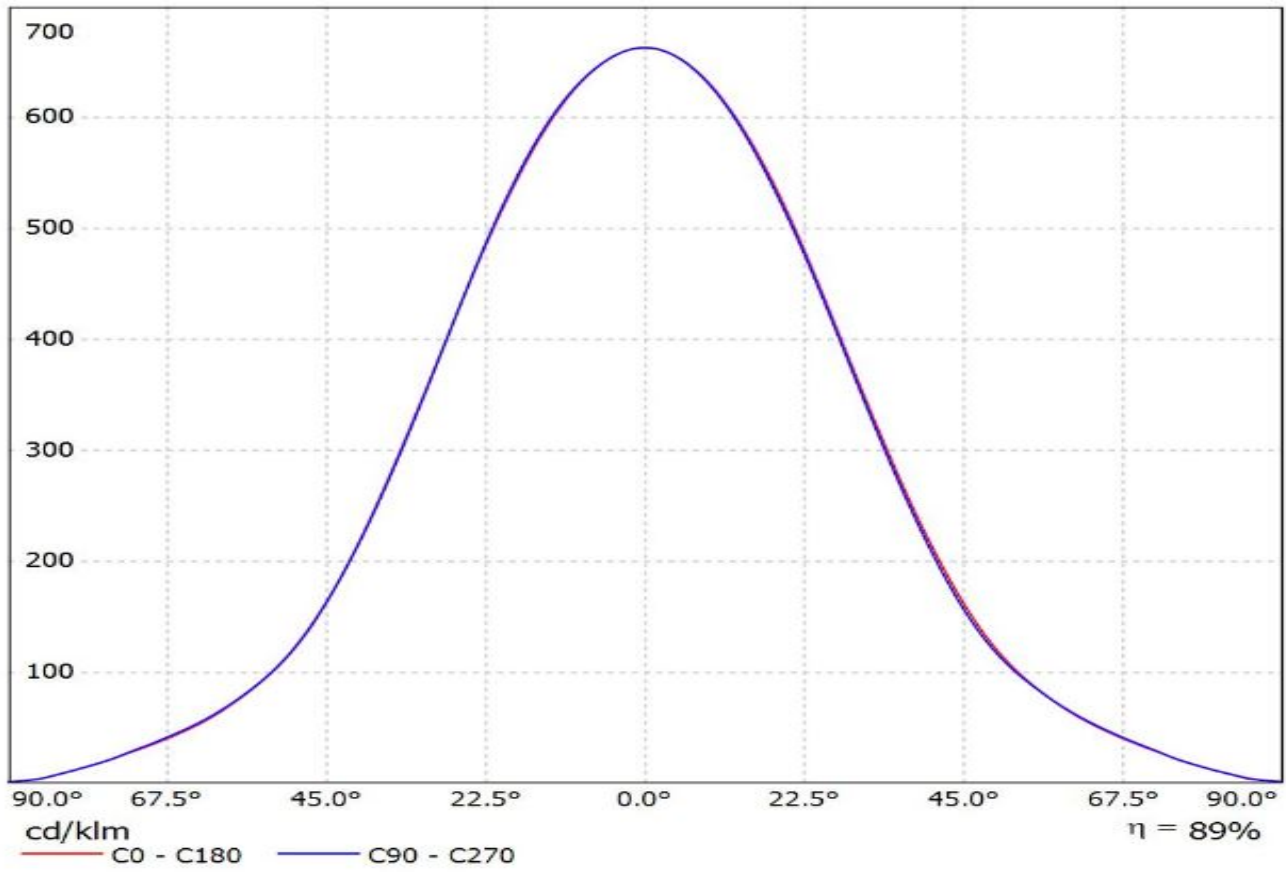
Luminaire: LEDiL Oy CN13990_SAGA-HB-IP-WHT_(CXA1507) Eff.91.5%
Lamps: 1 x Cree_CXA1507_(CXA1507-30F-F2-N0A-0000) 219.37lm@50mA P=1.68662W I=50.2mA



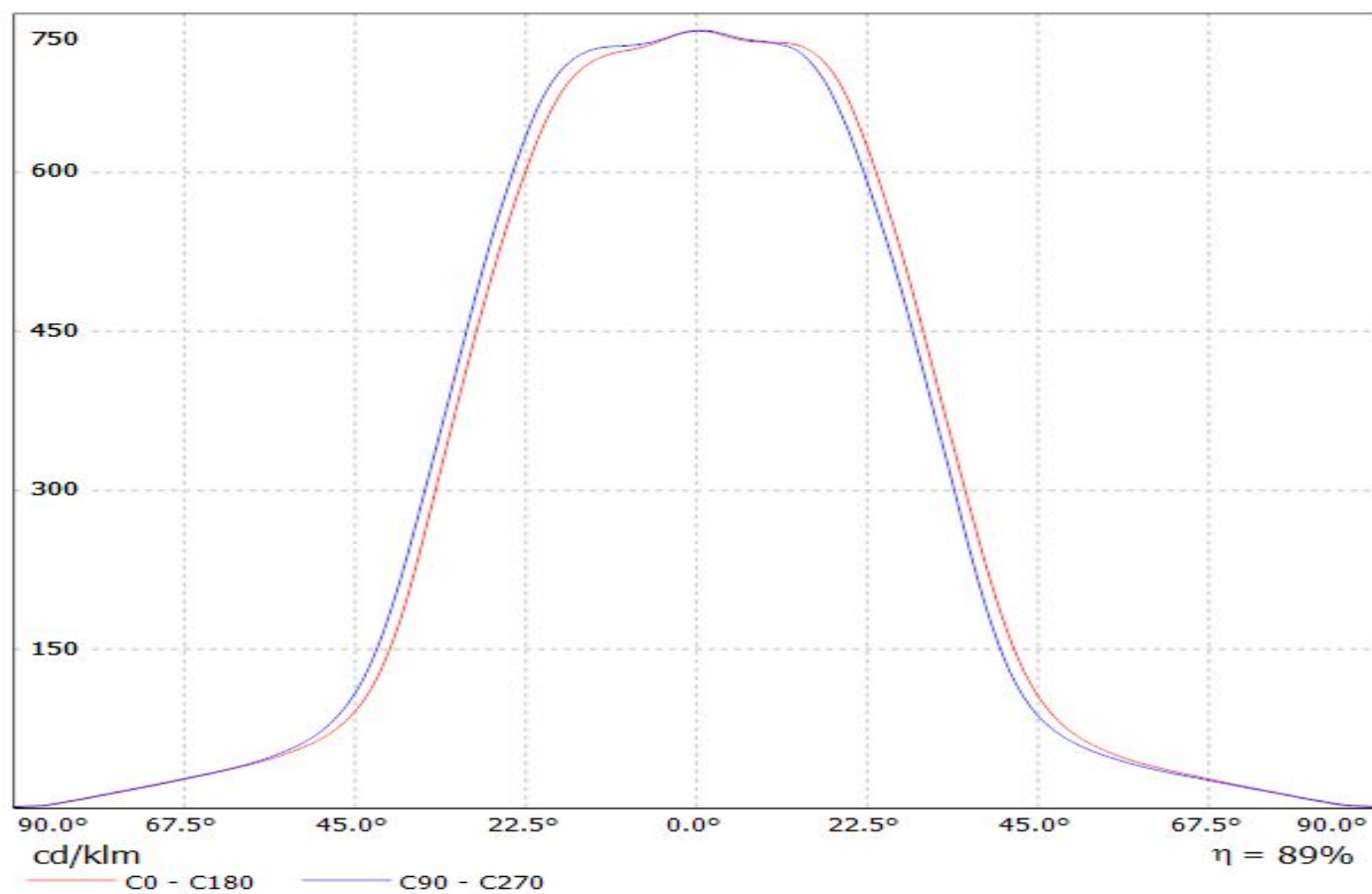
Luminaire: LEDil Oy CN13990_SAGA-HB-IP-WHT_(CXM-7) Efficiency=89%
Lamps: 1 x Luminus XNOVA CXM-7 (527lm @ 160mA) CCT=2900K P=5.6W I=160mA



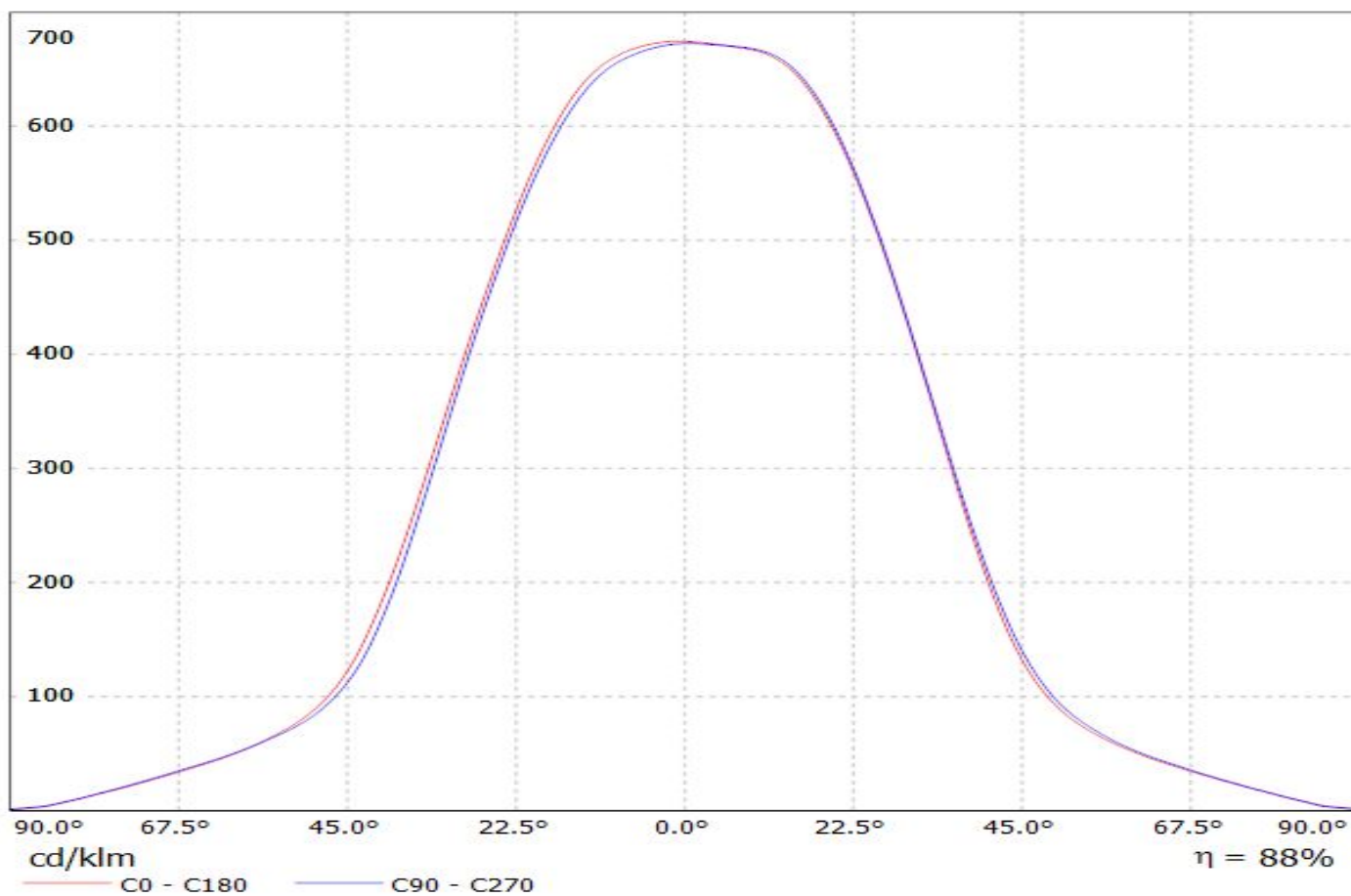
Luminaire: LEDiL Oy CN13990_SAGA-HB-IP-WHT_(SOLERIQ_P13)
Lamps: 1 x SOLERIQ_P13_(GW_MAGMB1.EM)_929.576lm@250mA_CCT=3500K_P=8.72876W_I=249.8mA



Luminaire: LEDiL Oy CN13990_SAGA-HB-IP-WHT_(Soleriq_P6) Eff.88.5%
Lamps: 1 x Osram_Soleriq_P6_(GW_MAEGB1.EM)
_281.545lm@100mA_CCT=3793K_P=2.44805W_I=100.1mA

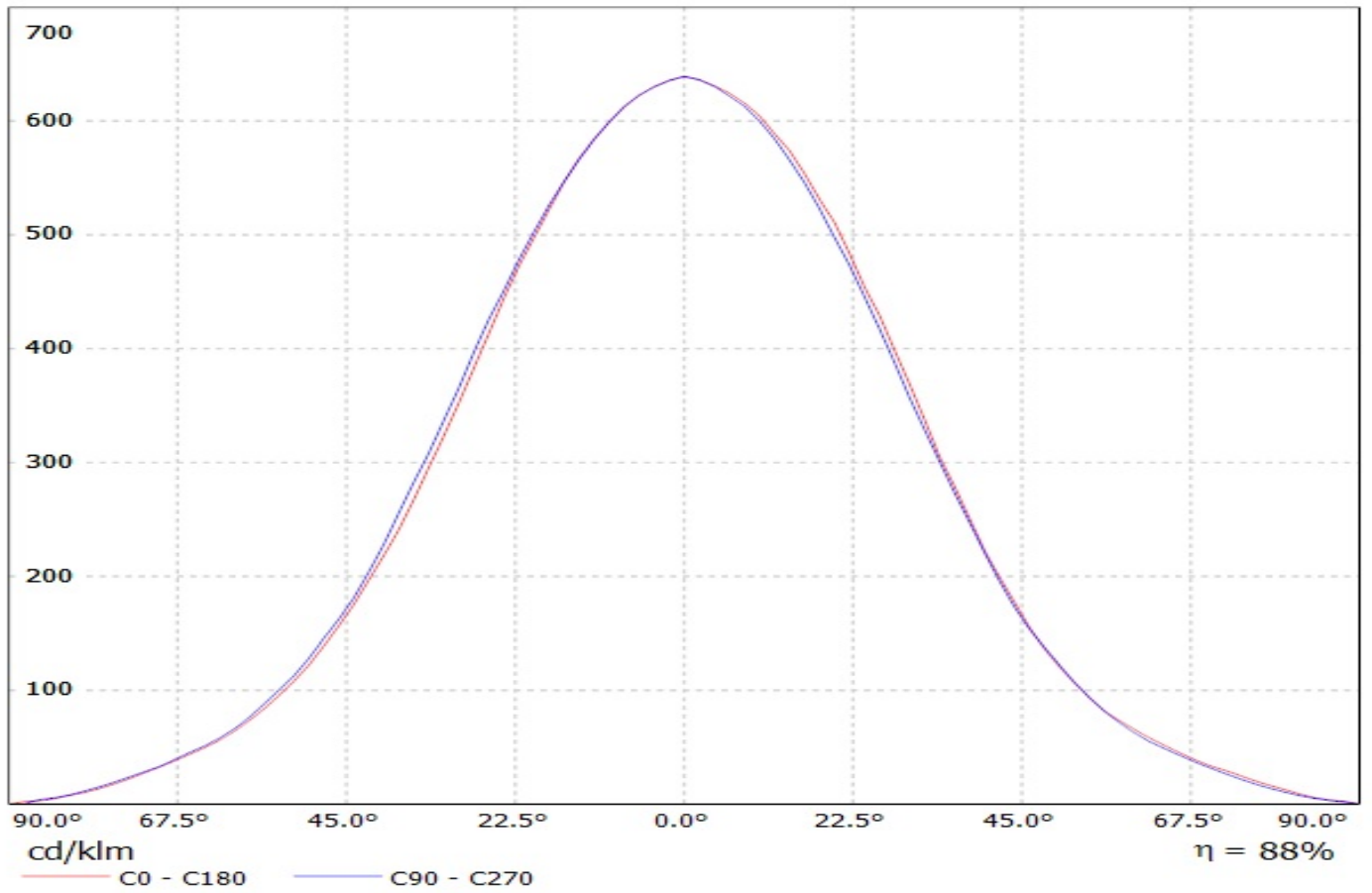


Luminaire: LEDiL Oy CN13990_SAGA-HB-IP-WHT_(V8) Eff.88.1%
Lamps: 1 x BRIDGELUX_V8_847.064lm@250mA_P=8.83692W_I=249.8mA

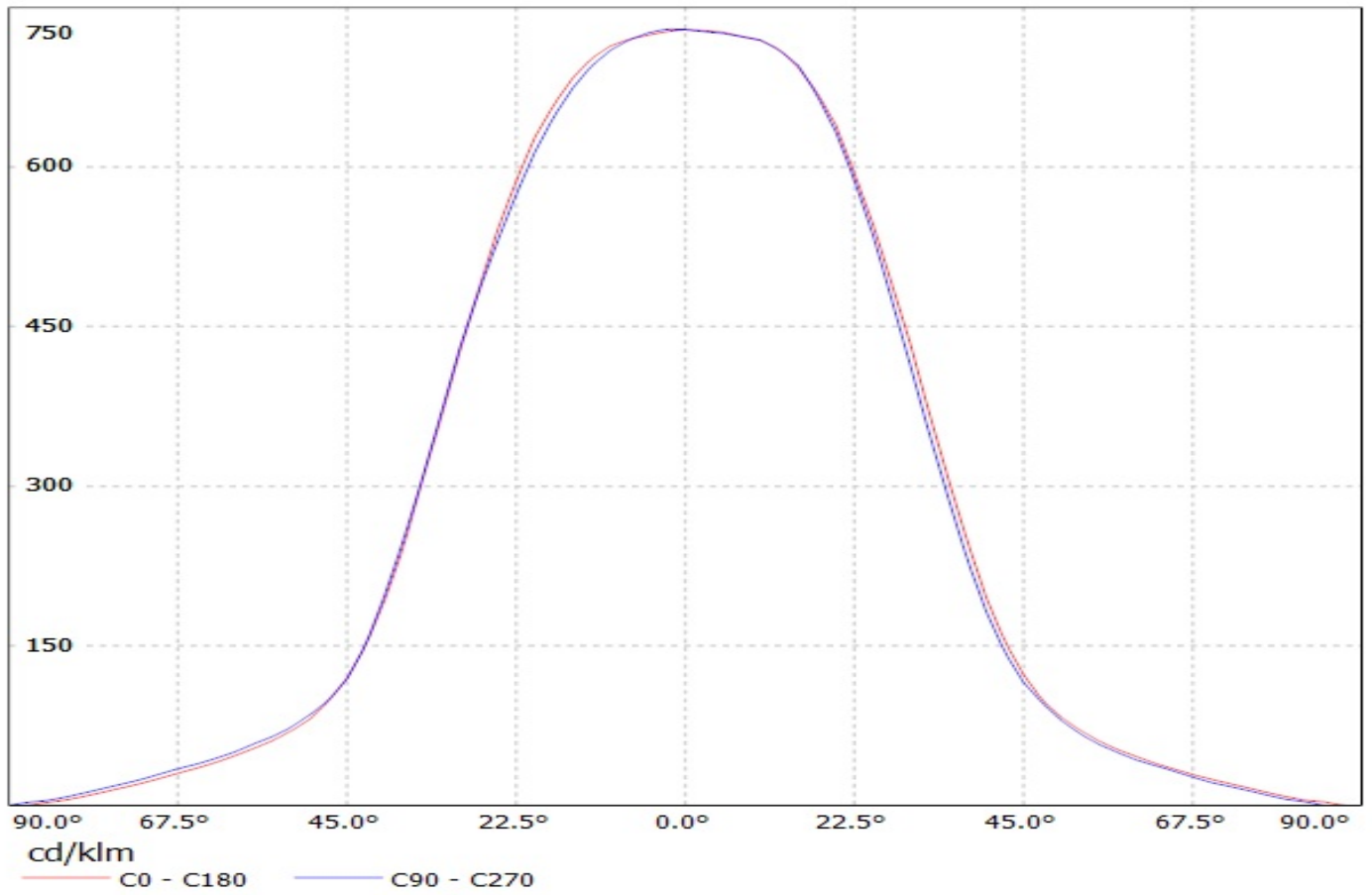


Luminaire: LEDil Oy CN13990_SAGA-HB-IP-WHT_(CXM-14)

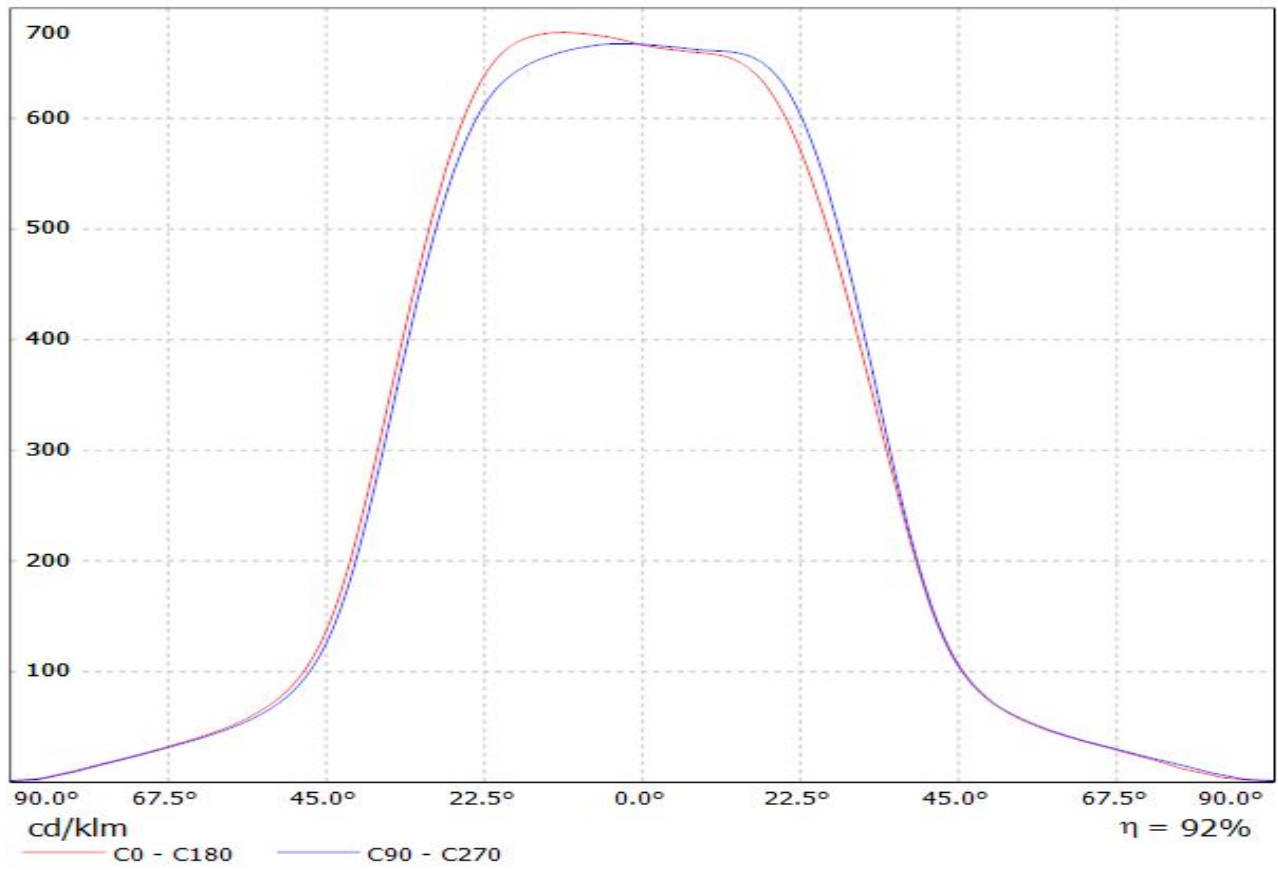
Lamps: 1 x Luminus CXM-14 (1058.75lm @ 250mA) CCT=3100K P=8.3W I=250mA



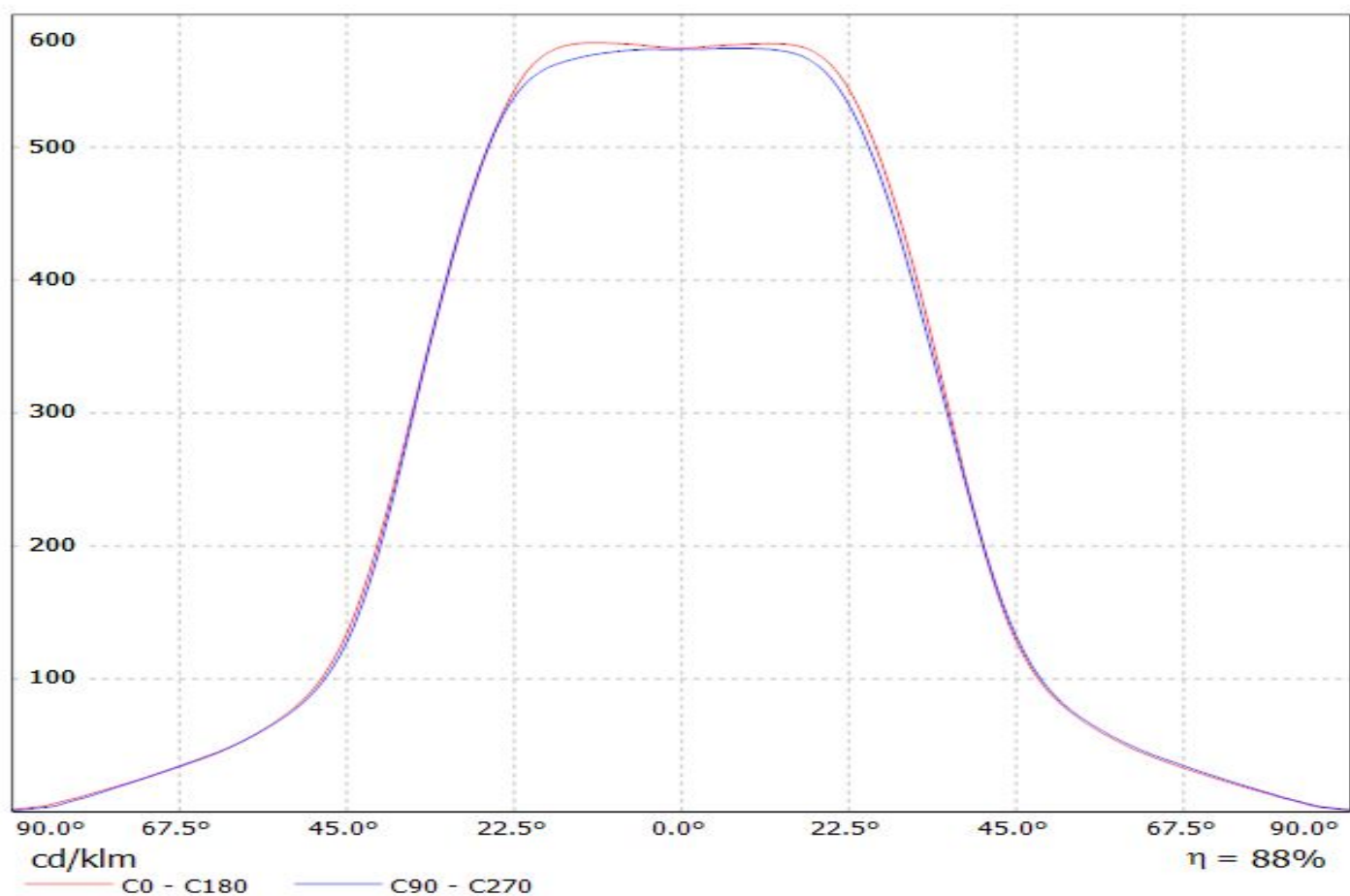
Luminaire: LEDil Oy CN13990_SAGA-HB-IP-WHT_(CXM-6) Efficiency=89%
Lamps: 1 x Luminus XNOVA CXM-6 (438lm @ 120mA) CCT=3200K P=4.2W I=120mA



Luminaire: LEDiL Oy CN13990_SAGA-HB-IP-WHT_(CXA1304_9V) Eff.91.9%
Lamps: 1 x CREE_CXA1304_9V_265.569lm@250mA_P=2.21931W_I=249.9mA



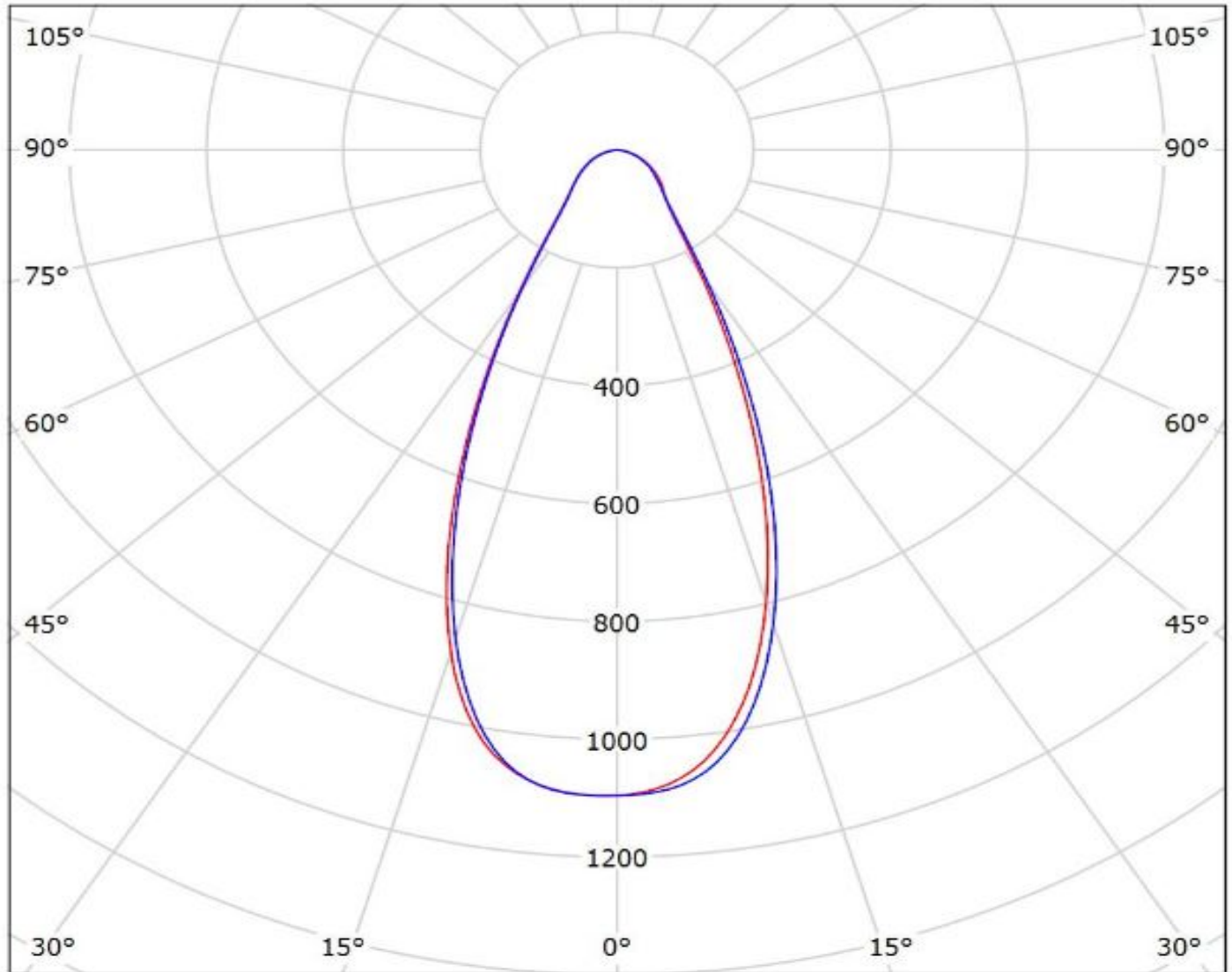
Luminaire: LEDiL Oy CN13990_SAGA-HB-IP-WHT_(V6) Eff.88.1%
Lamps: 1 x BRIDGELUX_V6_488.215lm@250mA_P=5.22041W_I=249.9mA



Ledil CN13990_SAGA-HB-IP-WHT_(CLU700) / LDC (Polar)

Luminaire: Ledil CN13990_SAGA-HB-IP-WHT_(CLU700)

Lamps: 1 x Citizen_CLU700_(CLU700-1002B8-273M2G1)_392.46lm@100mA_P=2.8255W_I=0.1A



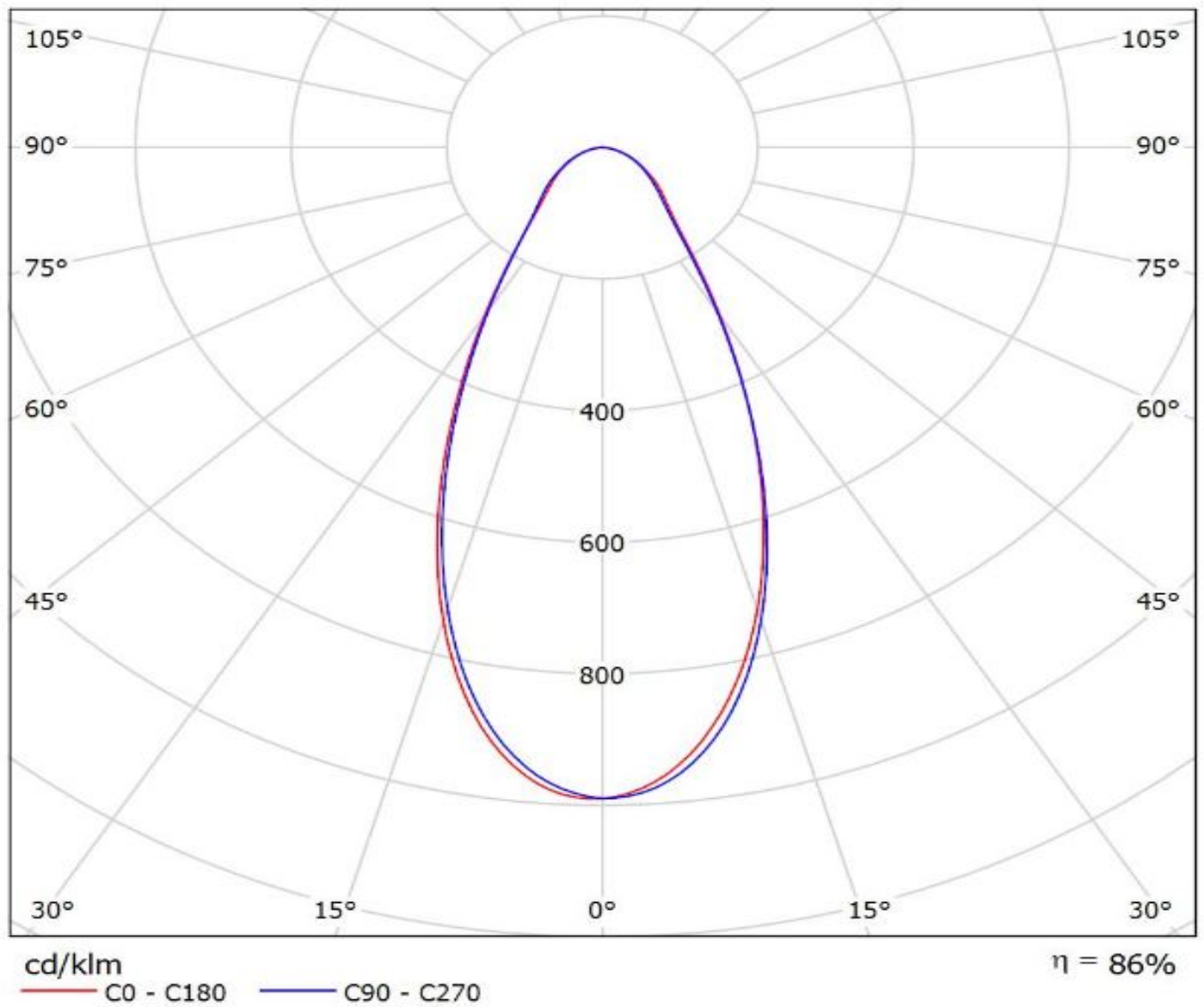
cd/klm

— C0 - C180 — C90 - C270

$\eta = 86\%$

Ledil CN13990_SAGA-HB-IP-WHT_(CLU024) / LDC (Polar)

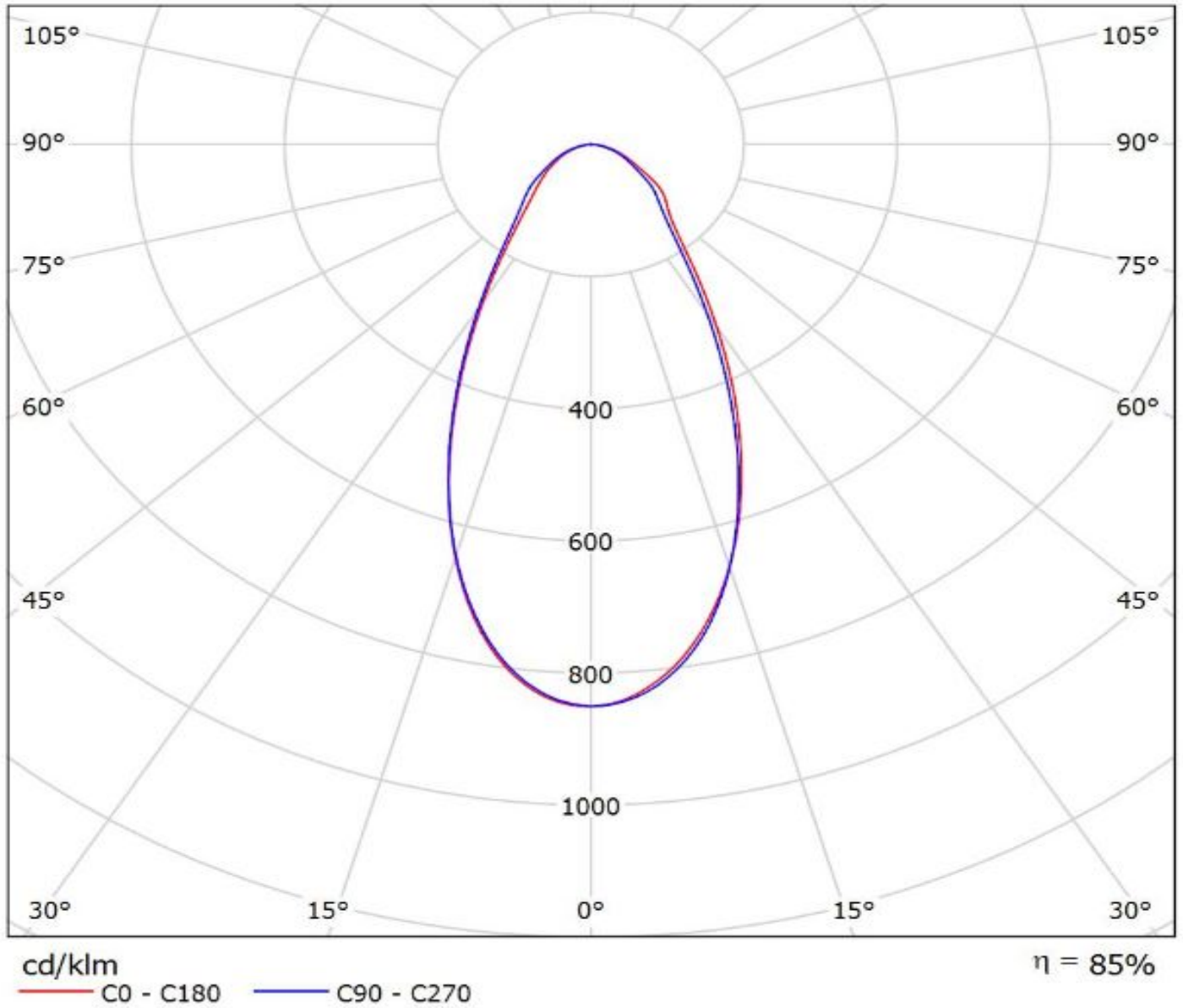
Luminaire: Ledil CN13990_SAGA-HB-IP-WHT_(CLU024)
Lamps: 1 x Citizen_CLU024_(CLU024-1204B8-303M1A2)
_1071.67lm@250mA_CCT=3000K_P=8.56W_I=0.25A



Ledil CN13990_SAGA-HB-IP-WHT_(CLU720) / LDC (Polar)

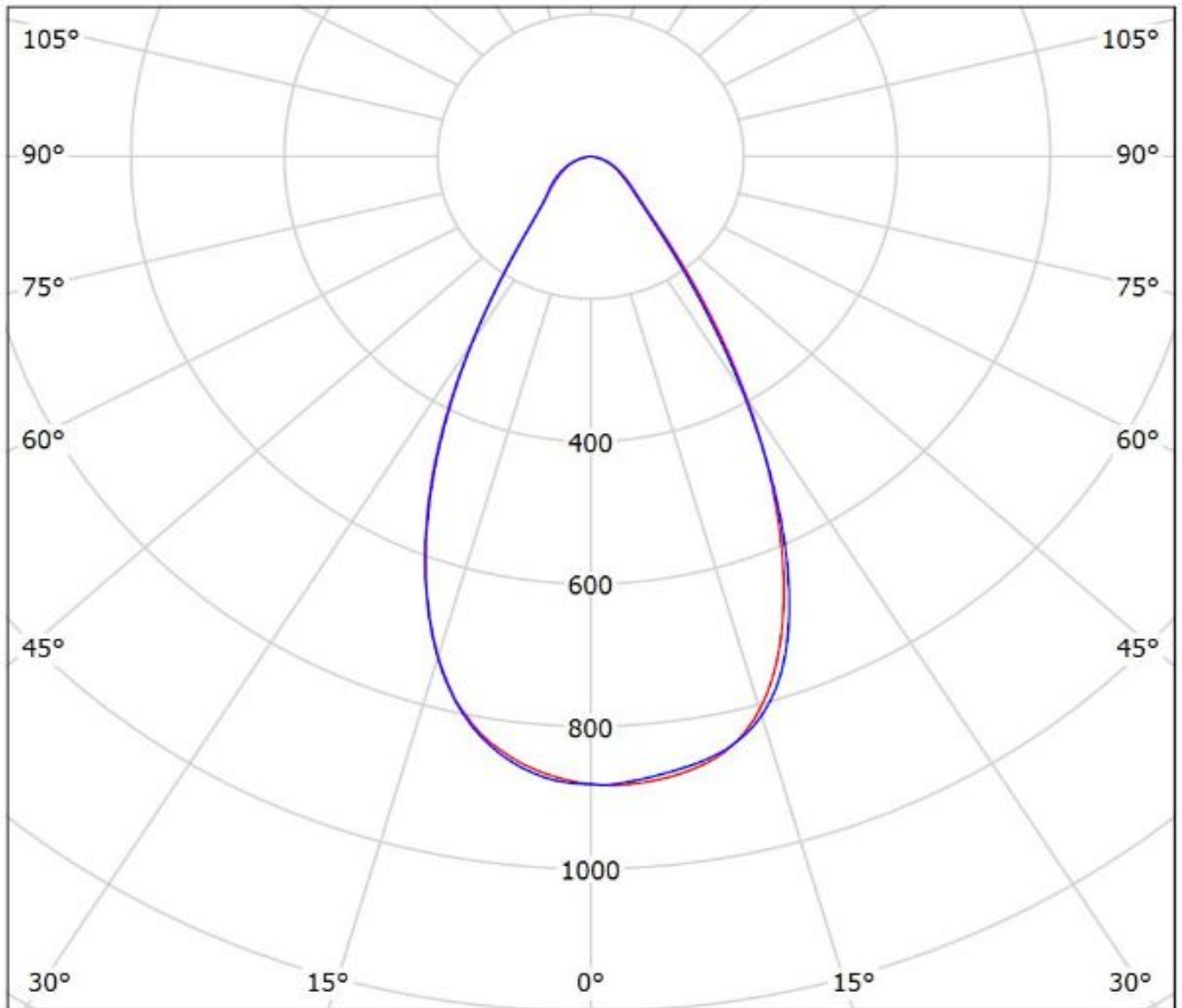
Luminaire: Ledil CN13990_SAGA-HB-IP-WHT_(CLU720)

Lamps: 1 x Citizen_CLU720_(CLU720-1206B8-273M2G1)_1253.68lm@250mA_P=8.3W_I=0.25A



Luminaire: Ledil CN13990_SAGA-HB-IP-WHT_(CLU700)

Lamps: 1 x Citizen_CLU700_394.637lm@100mA_P=2.8W_I=0.10A



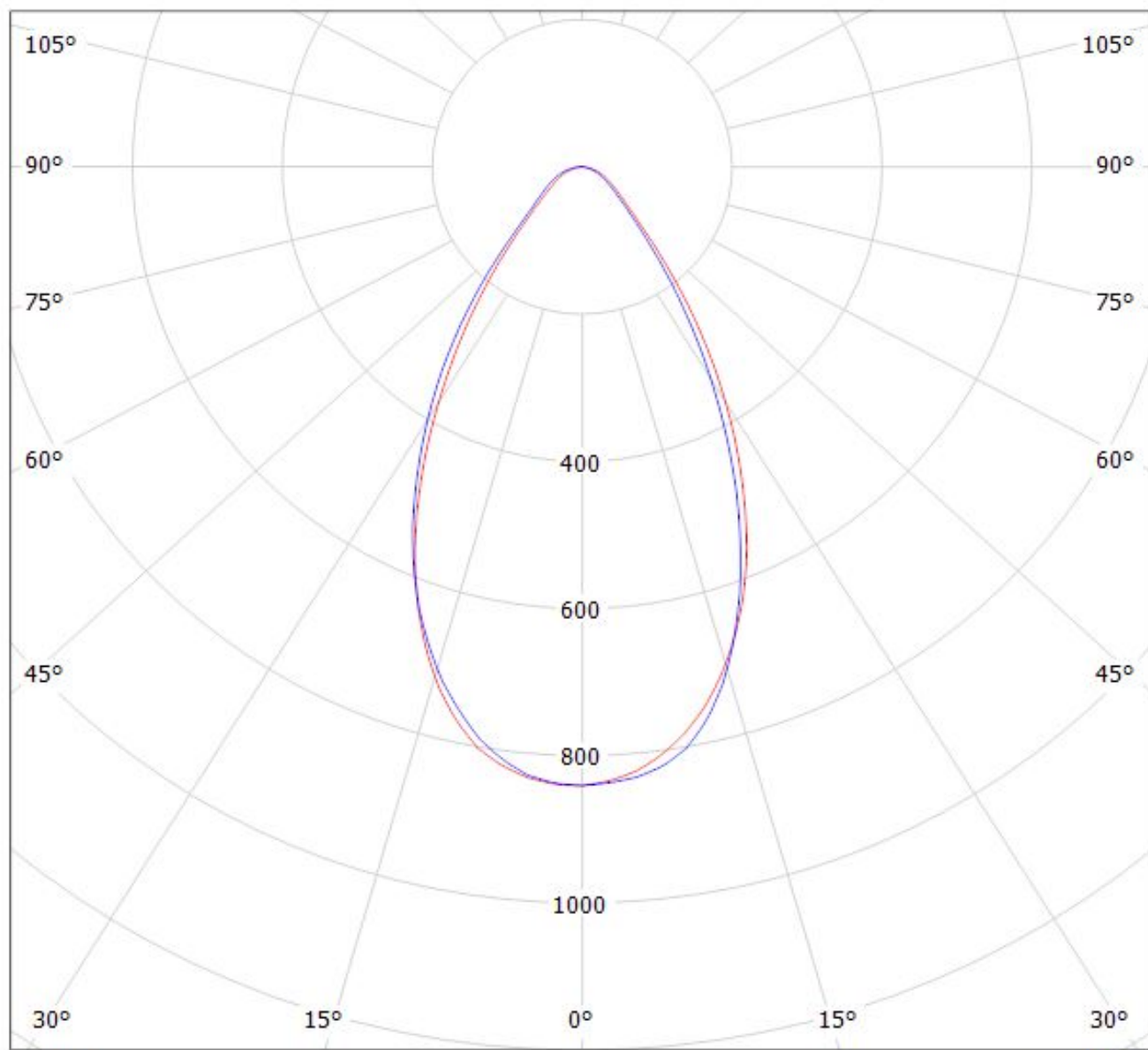
cd/klm

— C0 - C180 — C90 - C270

$\eta = 87\%$

Luminaire: LEDiL Oy CN13990_SAGA-HB-IP-WHT_(Soleriq_P9)

Lamps: 1 x Osram_Soleriq_P9_(GW_MAFJB1.EM)_387.221lm@100mA_CCT=4299K_P=2.73123W_I=100.1mA



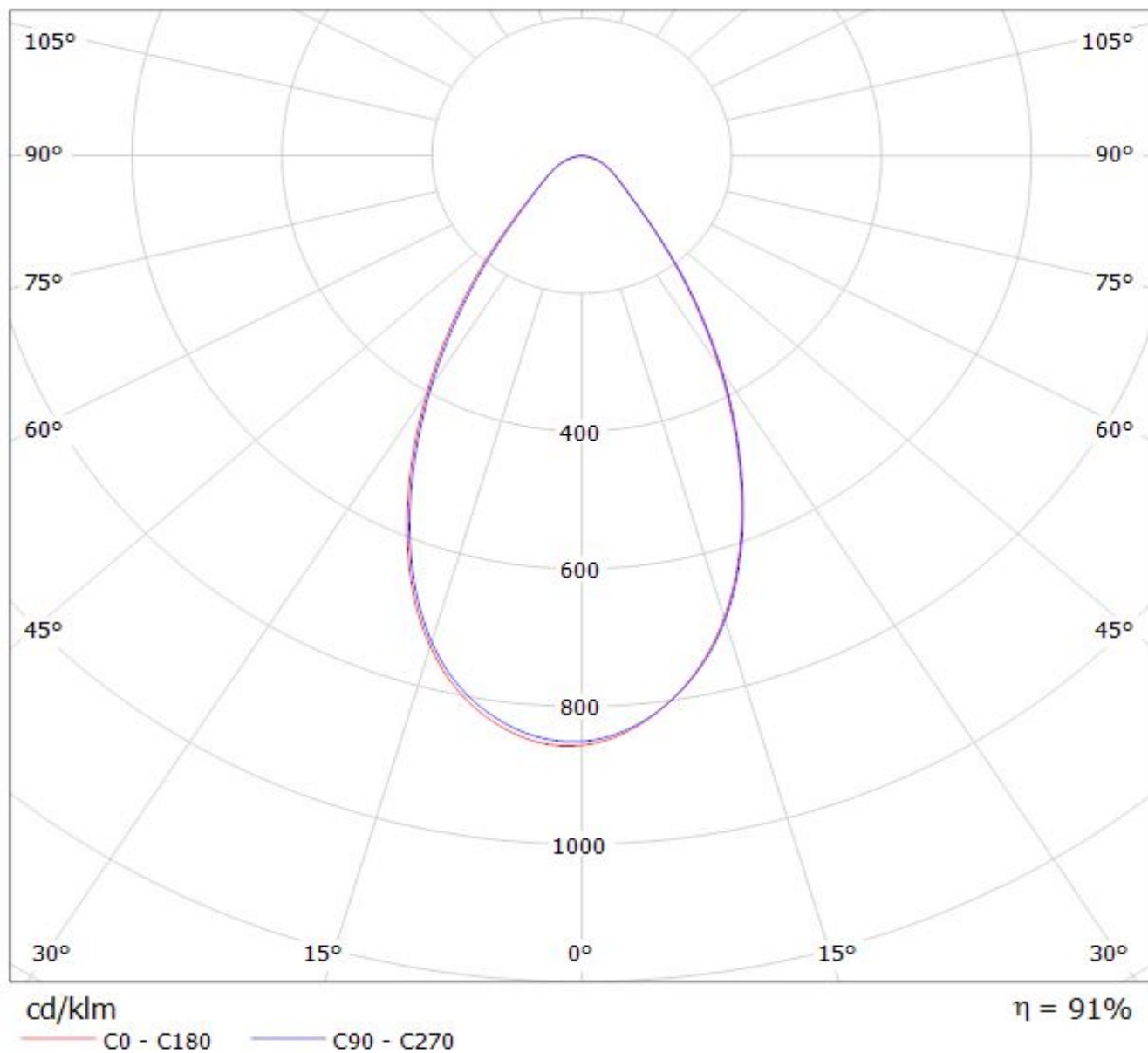
cd/klm

— C0 - C180

— C90 - C270

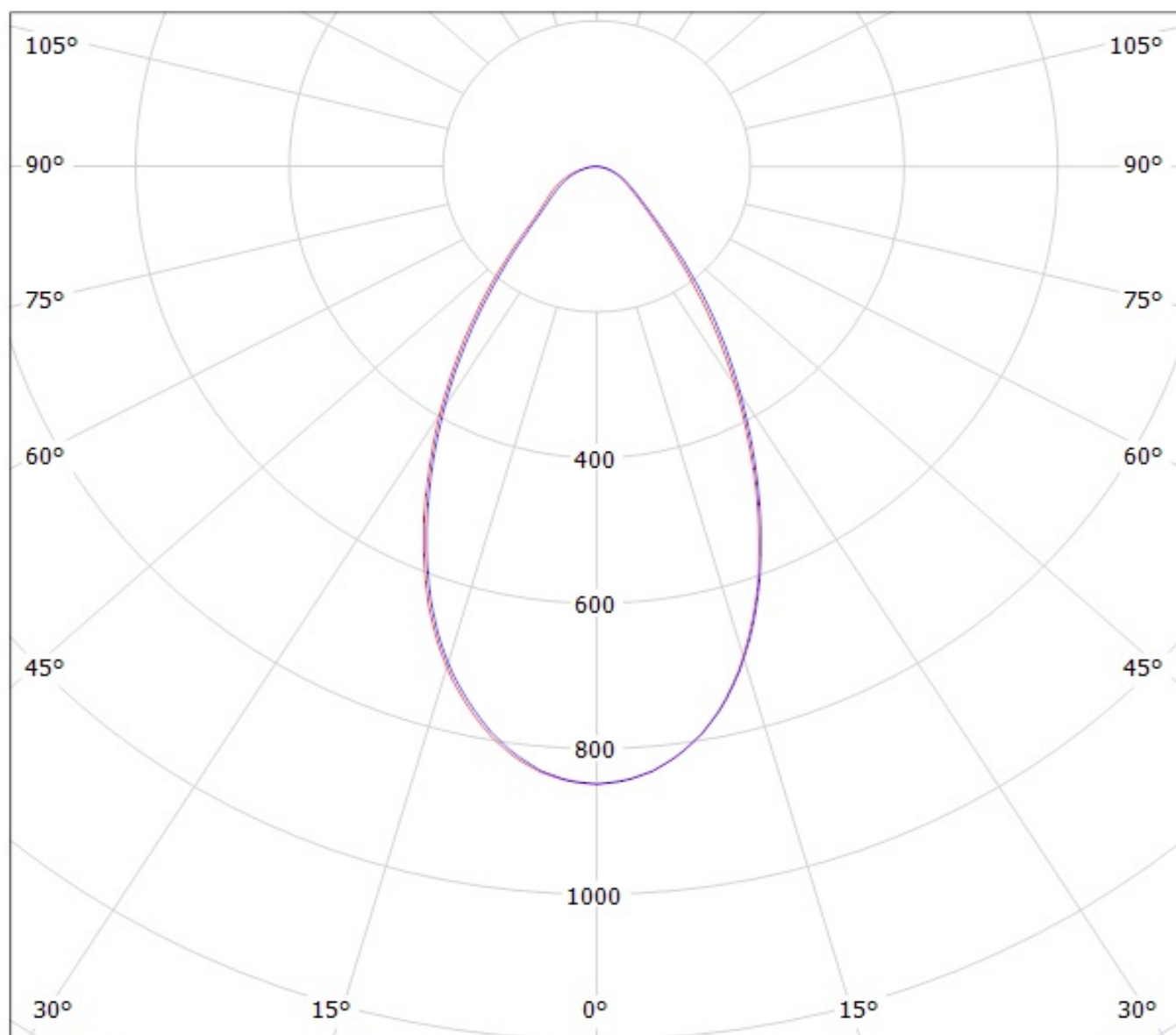
$\eta = 89\%$

Luminaire: LEDiL Oy CN13990_SAGA-HB-IP-WHT_(CLL020) Eff.90.5%
Lamps: 1 x CITIZEN_CLL020-1203A1_747.329lm@250mA_P=9.28656W_I=249.8mA



Luminaire: LEDiL Oy CN13990_SAGA-HB-IP-WHT_(VERO10) Eff.92%

Lamps: 1 x VERO10_(BXRC-30E1000B)_625lm@250mA_CCT=3000K_P=6.18827W_I=249.9mA



cd/klm

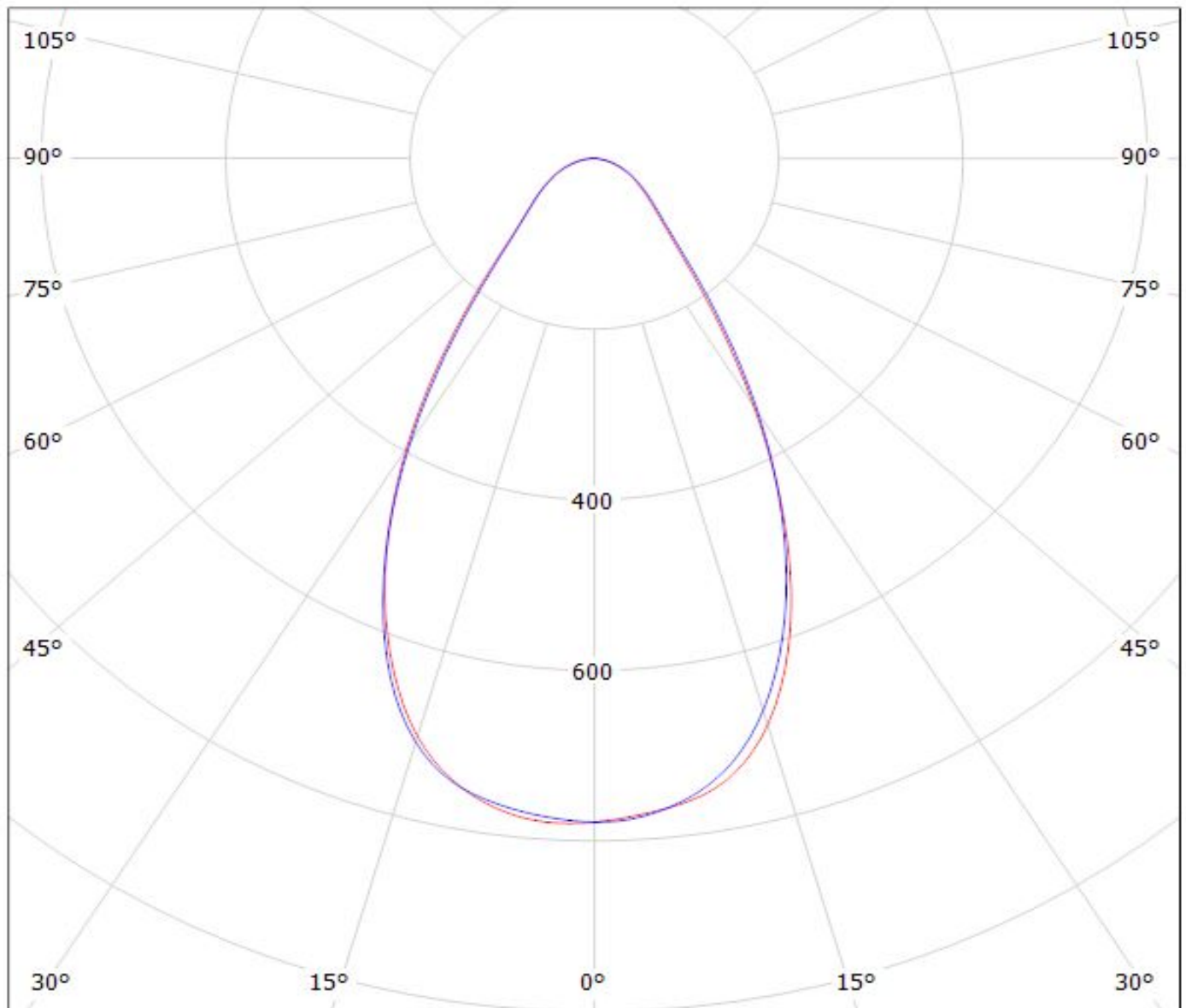
— C0 - C180

— C90 - C270

$\eta = 92\%$

Luminaire: Ledil CN13990_SAGA-HB-IP-WHT_(MHD-G)

Lamps: 1 x Cree MHD-G_530.44lm@100mA_P=3.0W_I=0.100A



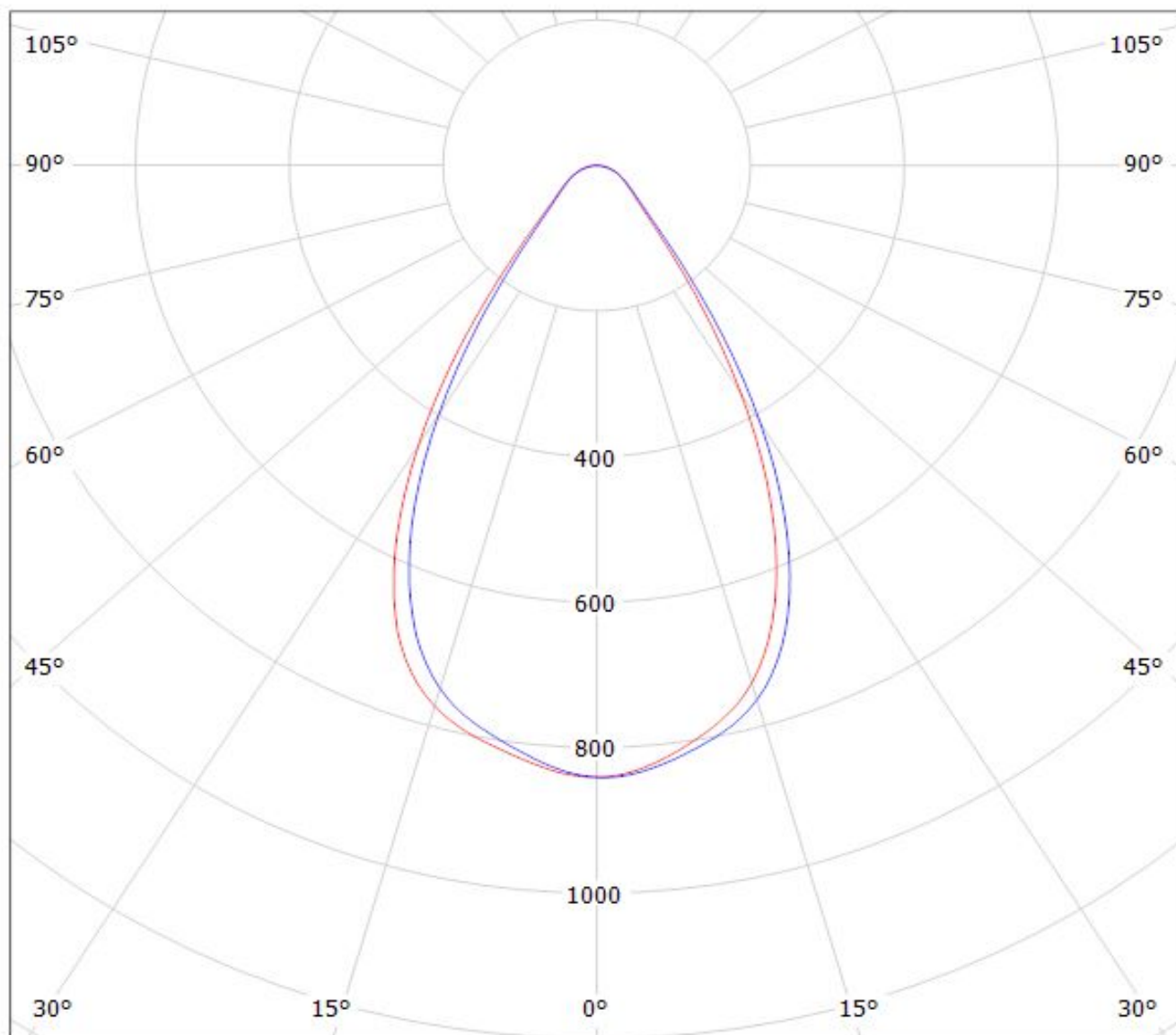
cd/klm

— C0 - C180 — C90 - C270

$\eta = 90\%$

Luminaire: LEDiL Oy CN13990_SAGA-HB-IP-WHT_(CLL010)_2 Eff.91.5%

Lamps: 1 x CITIZEN_CLL010-0305A1-303M1A2_205.695lm@250mA_P=2.27208W_I=249.8mA



cd/klm

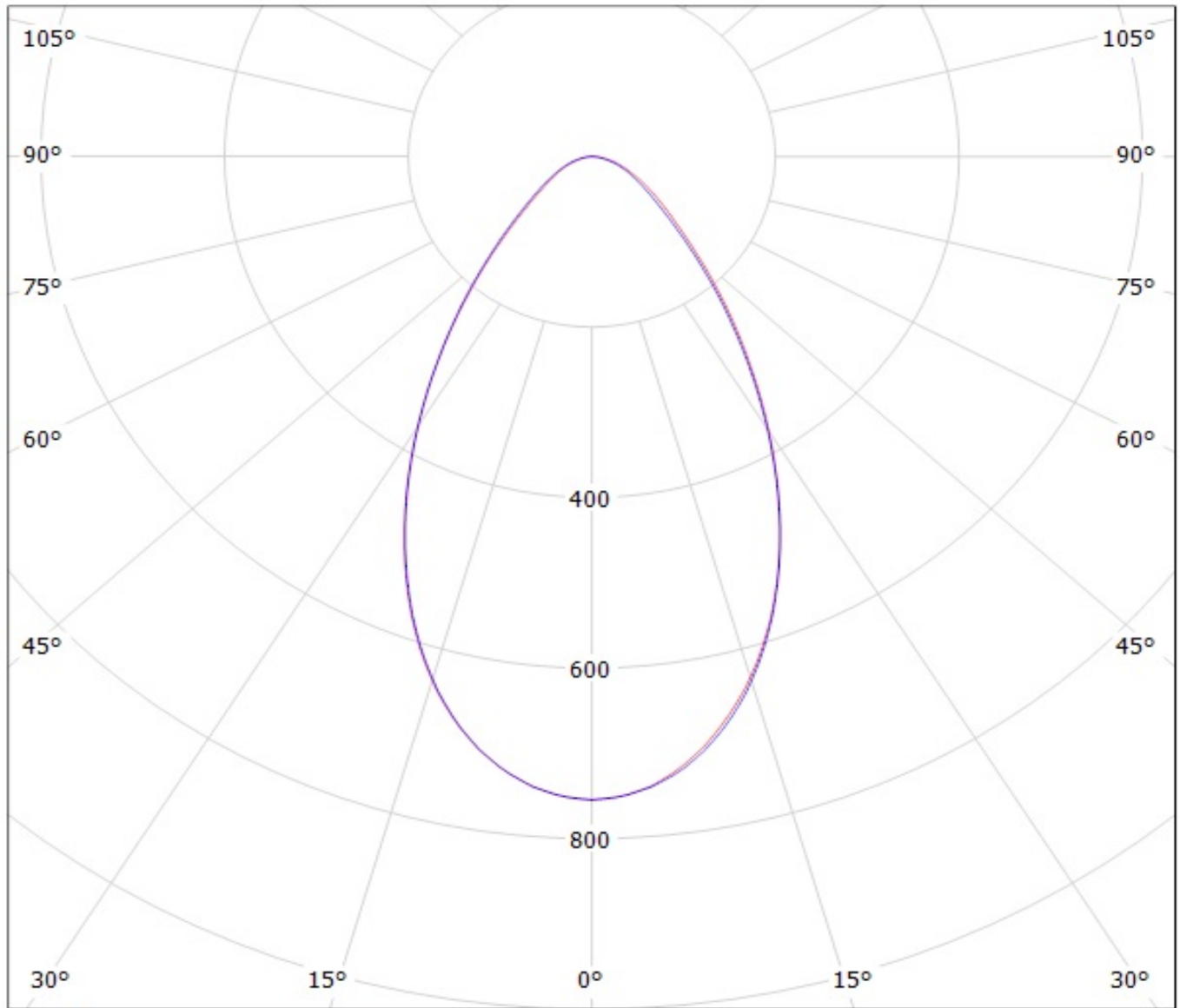
$\eta = 92\%$

— C0 - C180

— C90 - C270

Luminaire: LEDiL Oy CN13990_SAGA-HB-IP-WHT_(Soleriq_S13) Eff.91.2%

Lamps: 1 x Osram_Soleriq_S13_832.881lm@250mA_CCT=3125K_P=7.32389W_I=249.8mA

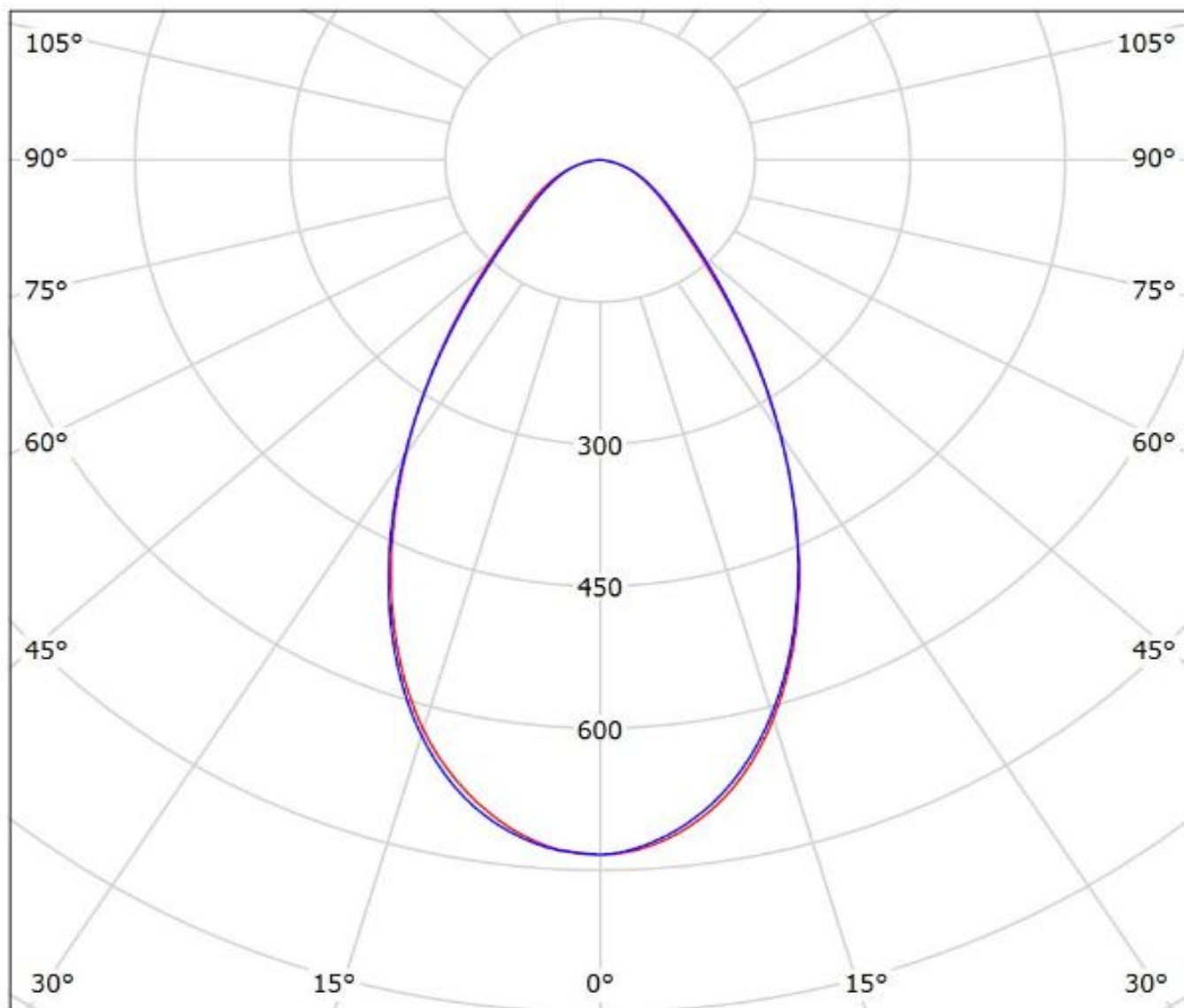


cd/klm

— C0 - C180

— C90 - C270

Luminaire: Ledil CN13990_SAGA-HB-IP-WHT_(CLU720)
Lamps: 1 x CITIZEN_CLU720_(CLU720-1206B8-273M2)
_1298.17lm@250mA_CCT=2700K_P=8.3W_I=0.25A



cd/klm

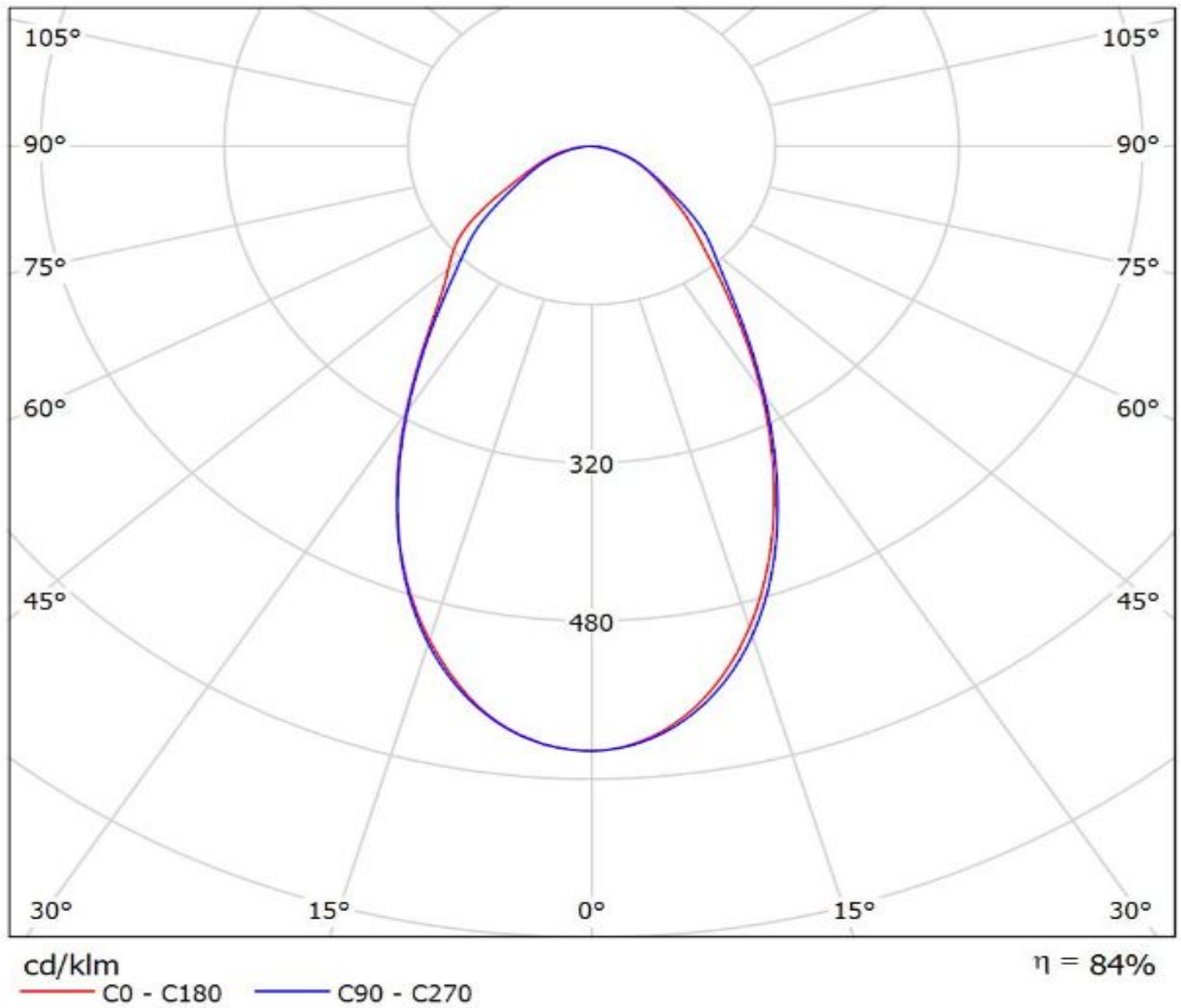
— C0 - C180 — C90 - C270

$\eta = 89\%$

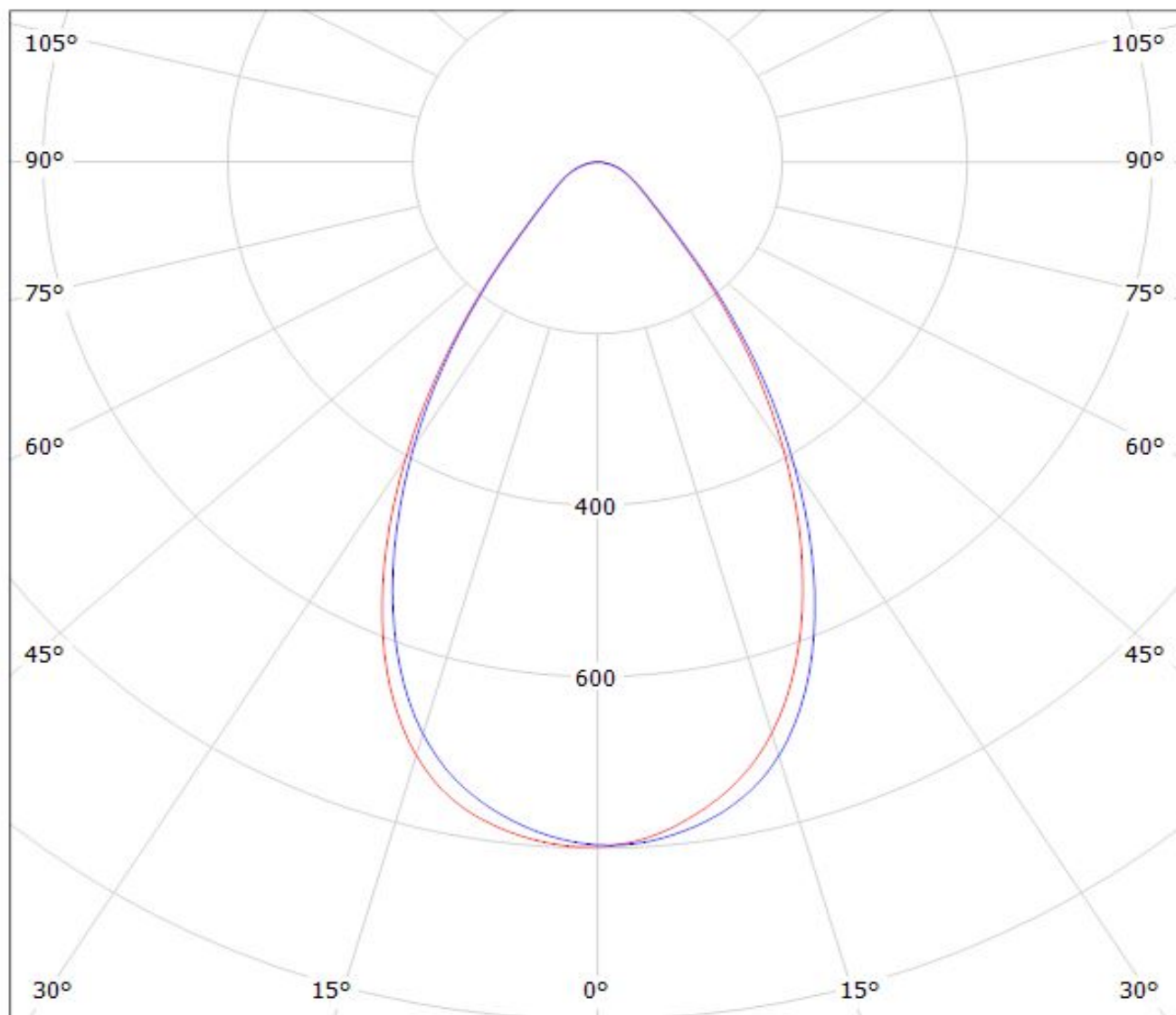
Ledil CN13990_SAGA-HB-IP-WHT_(CLU034) / LDC (Polar)

Luminaire: Ledil CN13990_SAGA-HB-IP-WHT_(CLU034)

Lamps: 1 x Citizen_CLU034_(CLU034-1205B8-303M1A2)_1190.41lm@250mA_P=8.5W_l=0.25A



Luminaire: LEDiL Oy CN13990_SAGA-HB-IP-WHT_(MINIZENIGATA) Eff.91.8%
Lamps: 1 x MINIZENIGATA_(6W6BR30HGD)_792.234lm@250mA_P=8.65382W_I=249.8mA



cd/klm

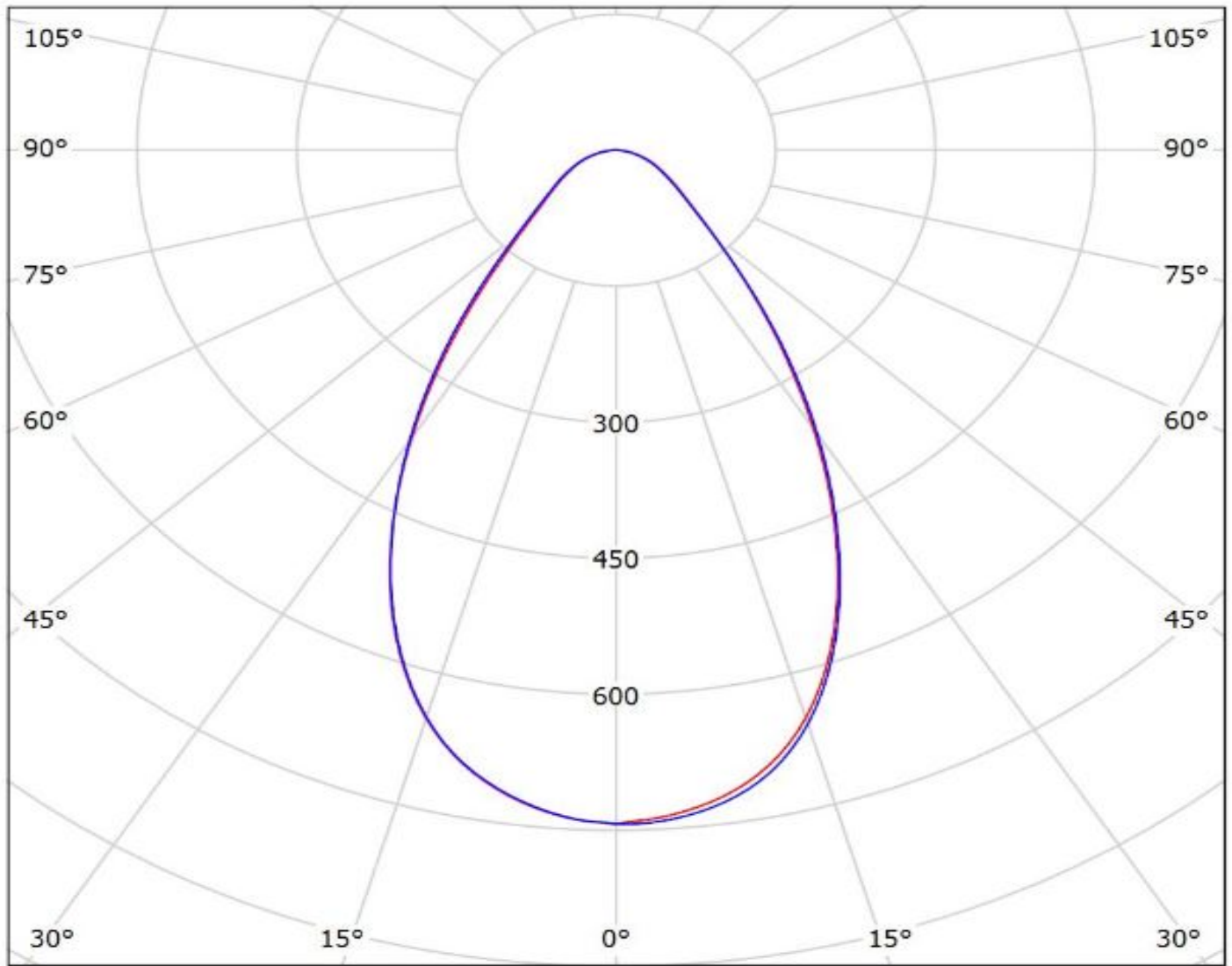
$\eta = 92\%$

— C0 - C180 — C90 - C270

Ledil CN13990_SAGA-HB-IP-WHT_(CLU710) / LDC (Polar)

Luminaire: Ledil CN13990_SAGA-HB-IP-WHT_(CLU710)

Lamps: 1 x CITIZEN_CLU710_(CLU710-1204B8-273M2G1)_1210.56lm@250mA_P=8.5W_I=0.25A



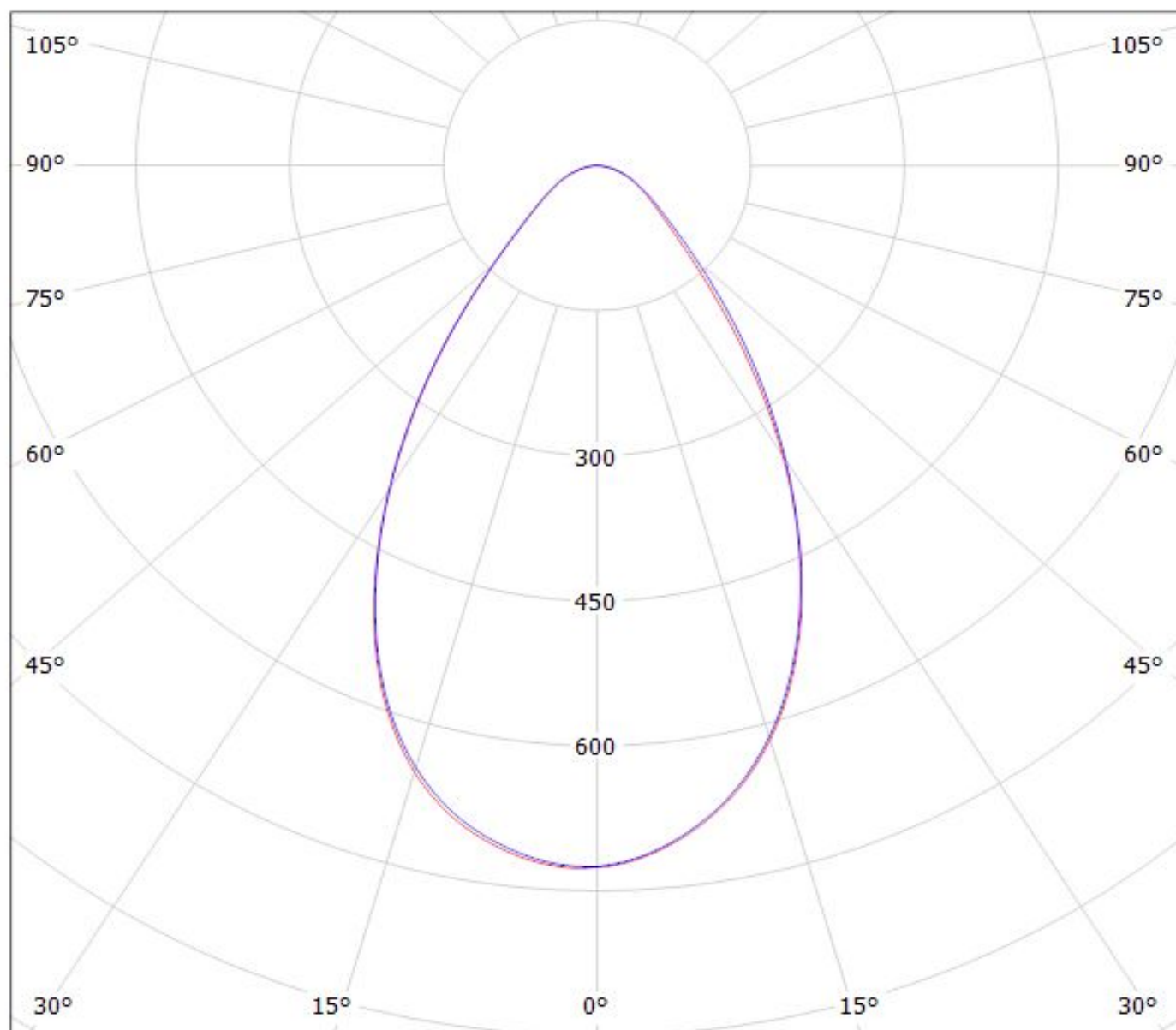
cd/klm

— C0 - C180 — C90 - C270

$\eta = 90\%$

Luminaire: LEDiL Oy CN13990_SAGA-HB-IP-WHT_(LUXEON_COB-1203)

Lamps: 1 x LUXEON_COB-1203_(LHC1-3080-1203)_988.777lm@250mA_CCT=3000K_P=8.6W_I=0.25A



cd/klm

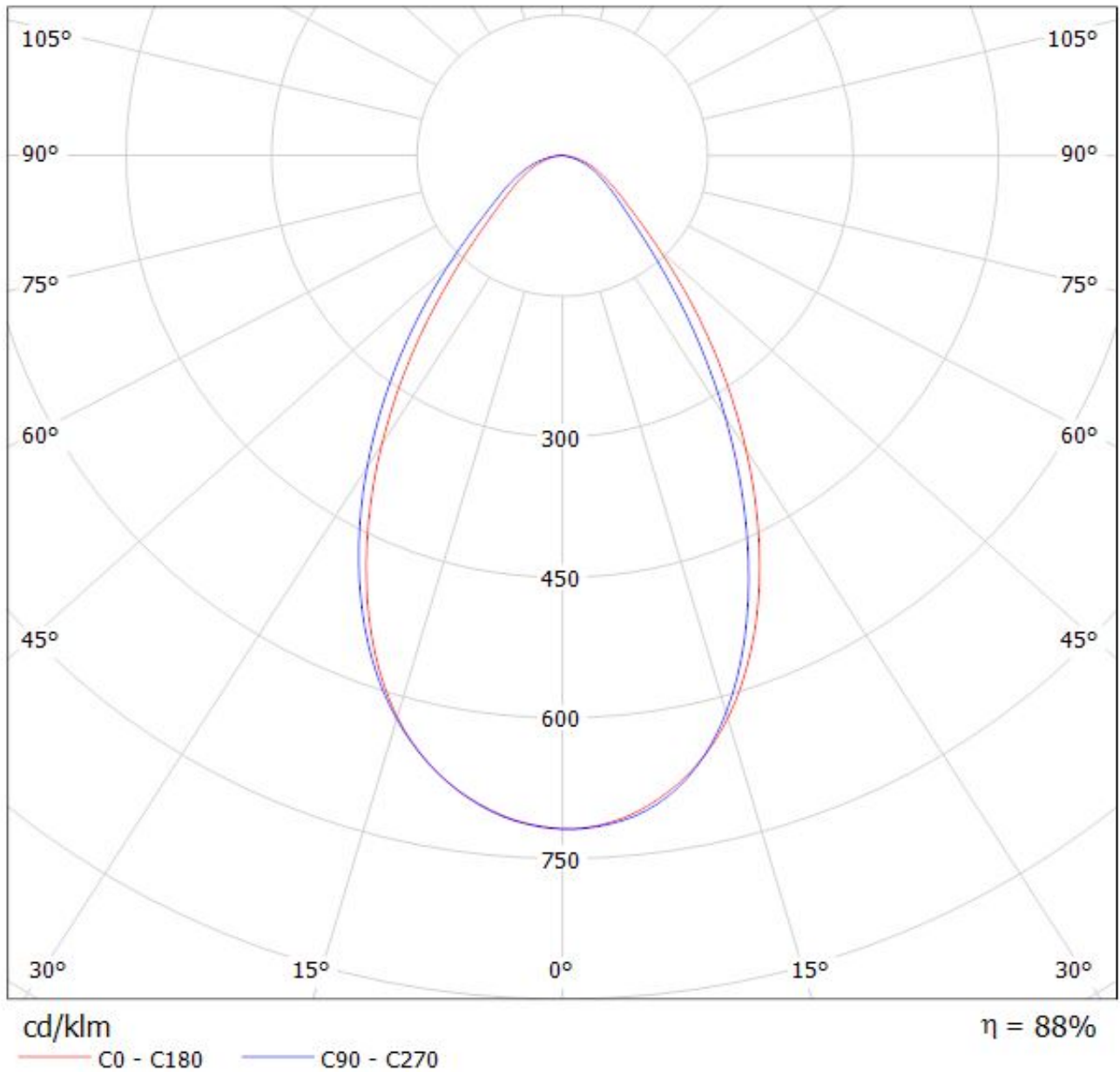
— C0 - C180

— C90 - C270

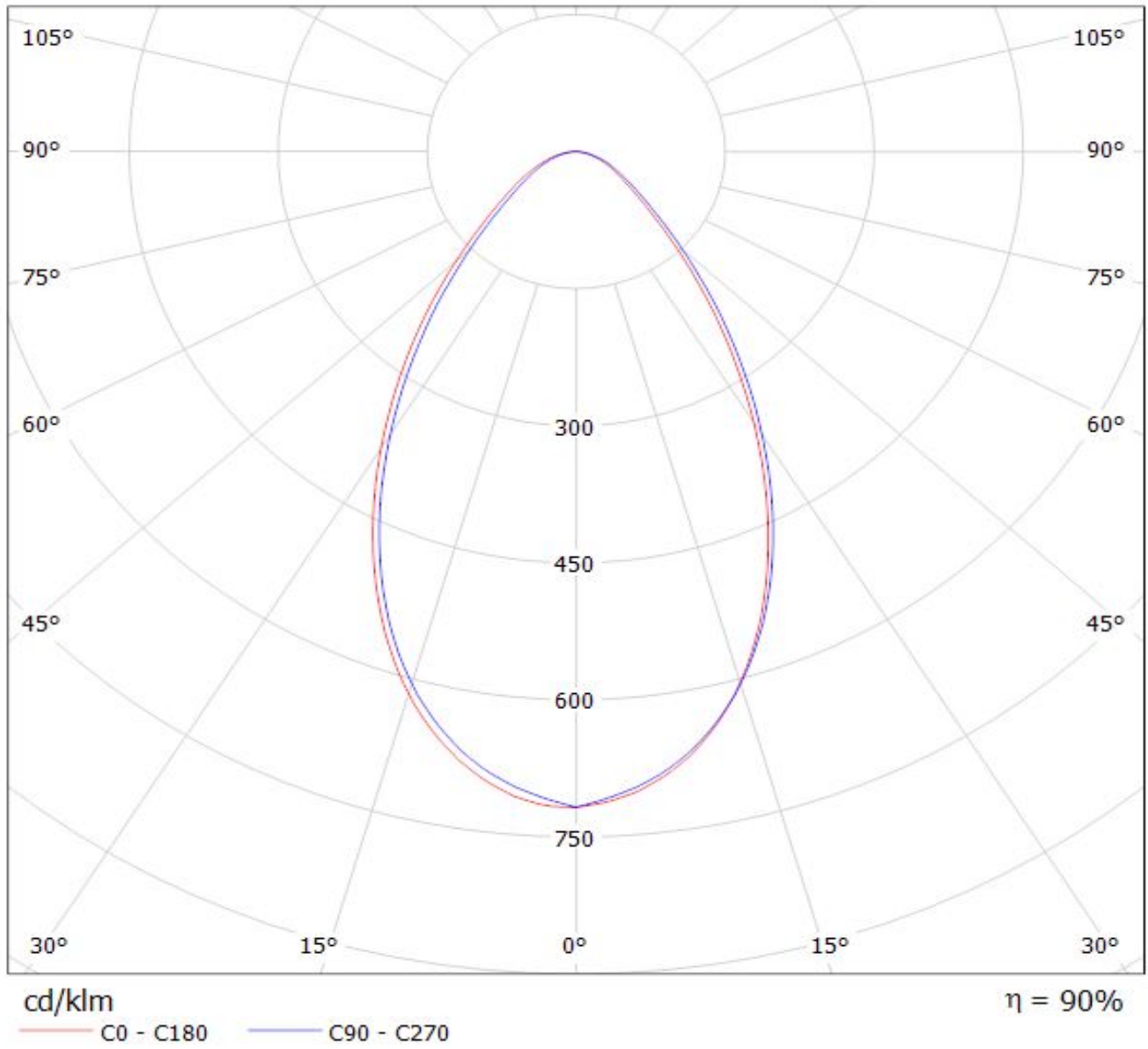
$\eta = 89\%$

Luminaire: LEDiL Oy CN13990_SAGA-HB-IP-WHT

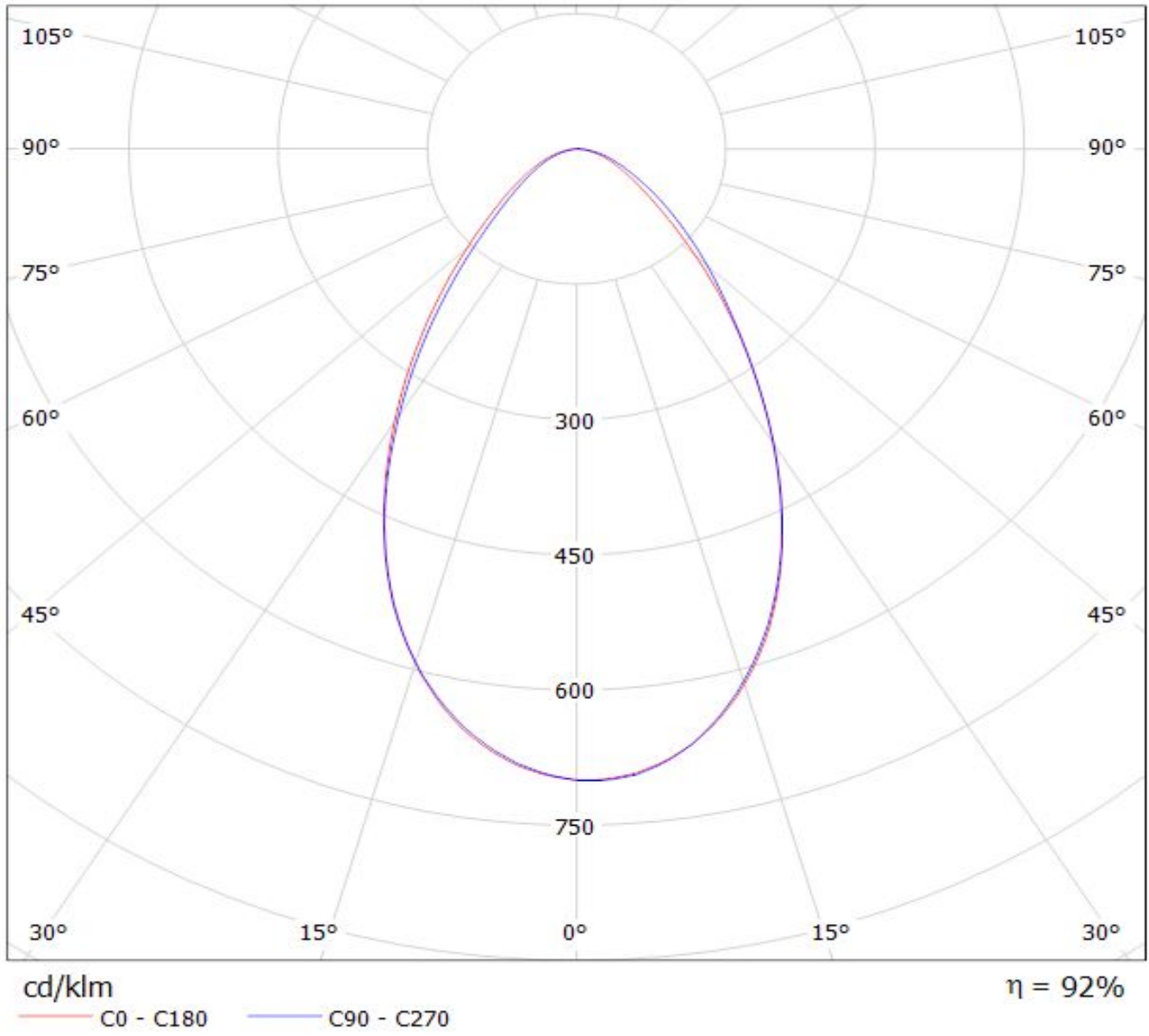
Lamps: 1 x Luminus_XNOVA_CXM-9_(AA00)_945.175lm@240mA_P=8.21232W_I=240mA



Luminaire: LEDiL Oy CN13990_SAGA-HB-IP-WHT_(CXA1816) Eff. 90%
Lamps: 1 x Cree_CXA1816_1049.36lm@250mA_P=8.6161W_I=249.8mA

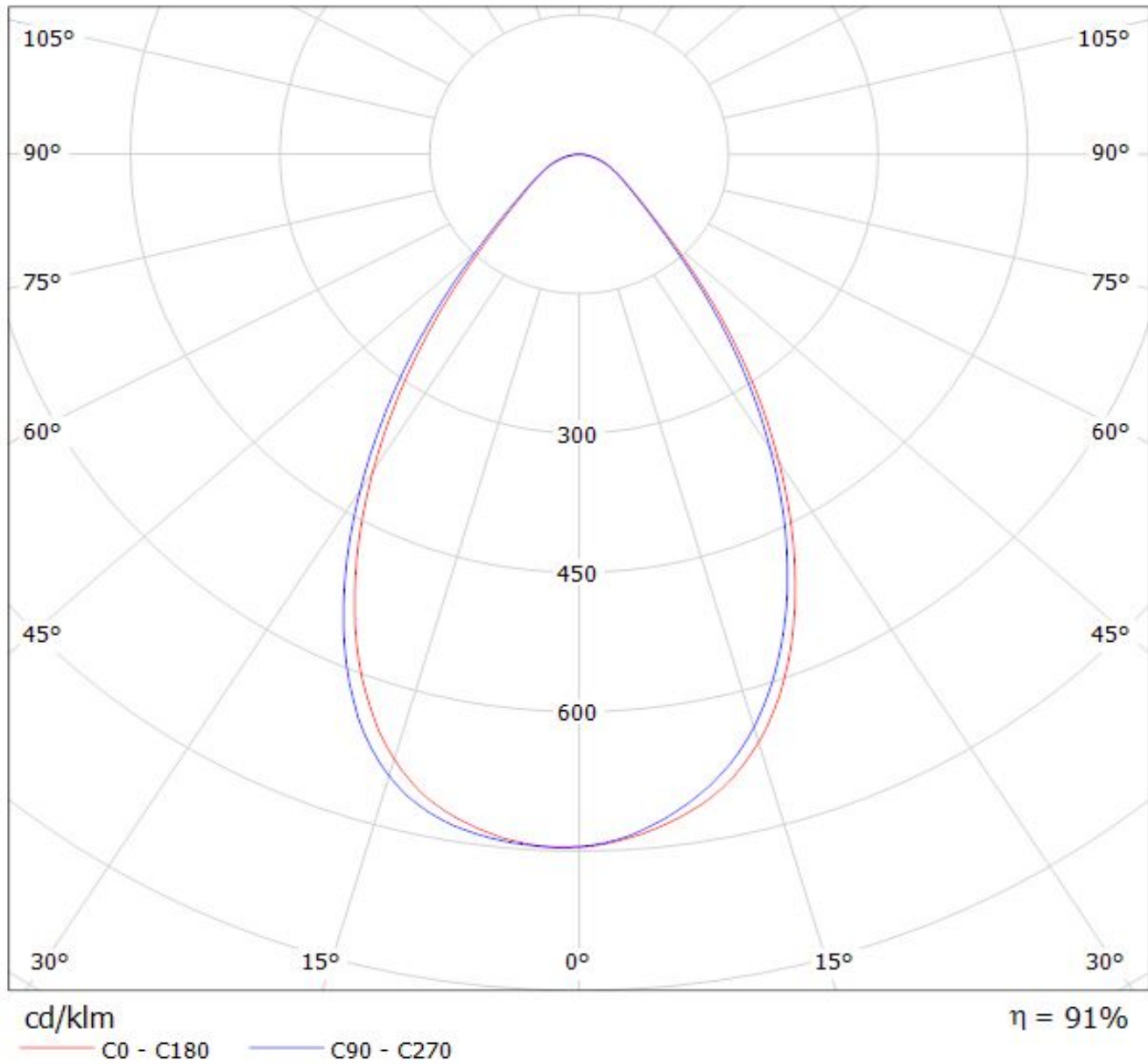


Luminaire: LEDiL Oy CN13990_SAGA-HB-IP-WHT_(CLL030-1206A1) Eff.92.0%
Lamps: 1 x CLL030-1206A1_(303M1A2)_802.683lm@250mA_P=8.76248W_I=249.8mA

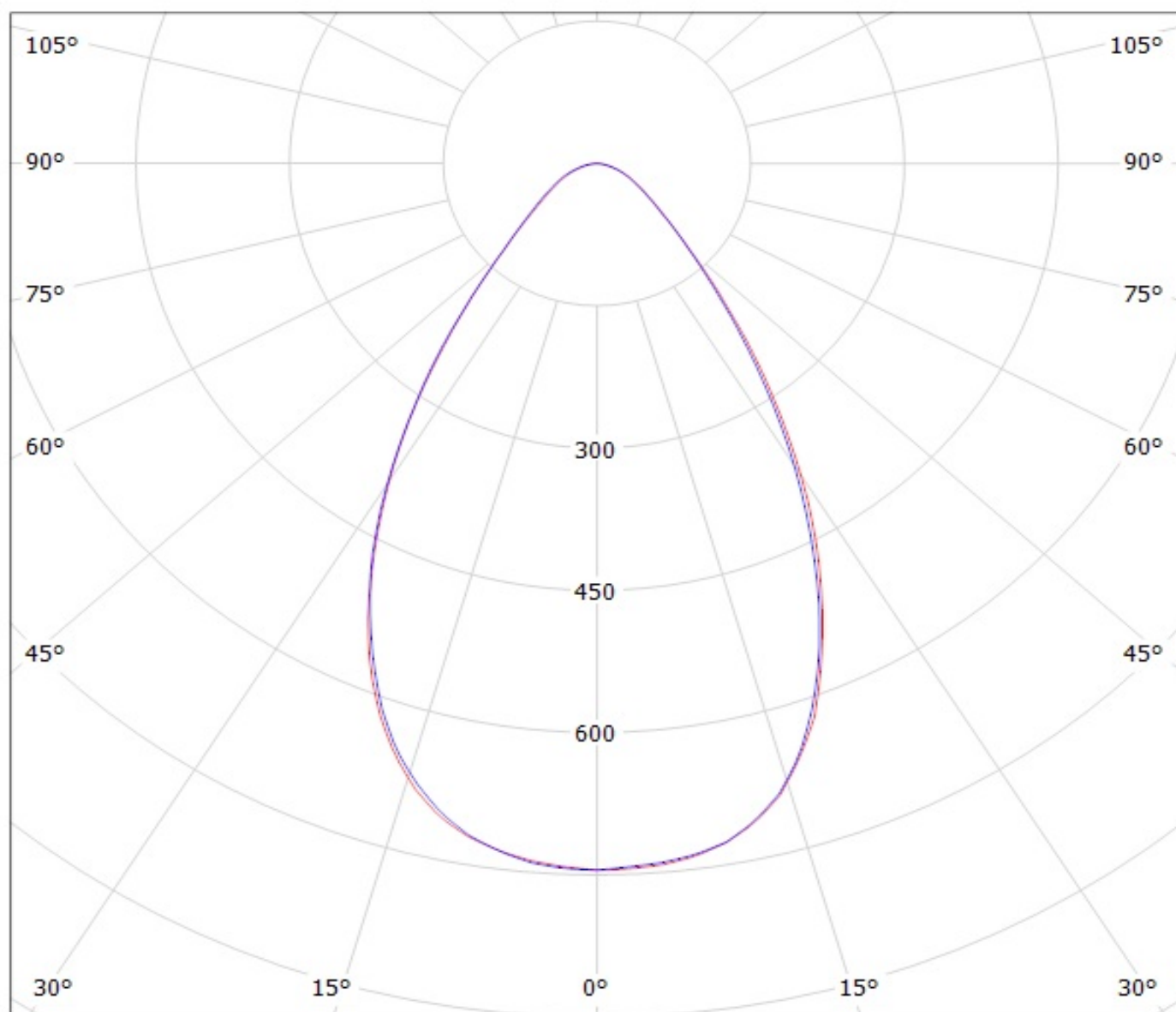


Luminaire: LEDiL Oy CN13990_SAGA-HB-IP-WHT_(CXA1507) Eff.91.5%

Lamps: 1 x Cree_CXA1507_(CXA1507-30F-F2-N0A-0000) 219.37lm@50mA P=1.68662W I=50.2mA



Luminaire: LEDil Oy CN13990_SAGA-HB-IP-WHT_(CXM-7) Efficiency=89%
Lamps: 1 x Luminus XNOVA CXM-7 (527lm @ 160mA) CCT=2900K P=5.6W I=160mA

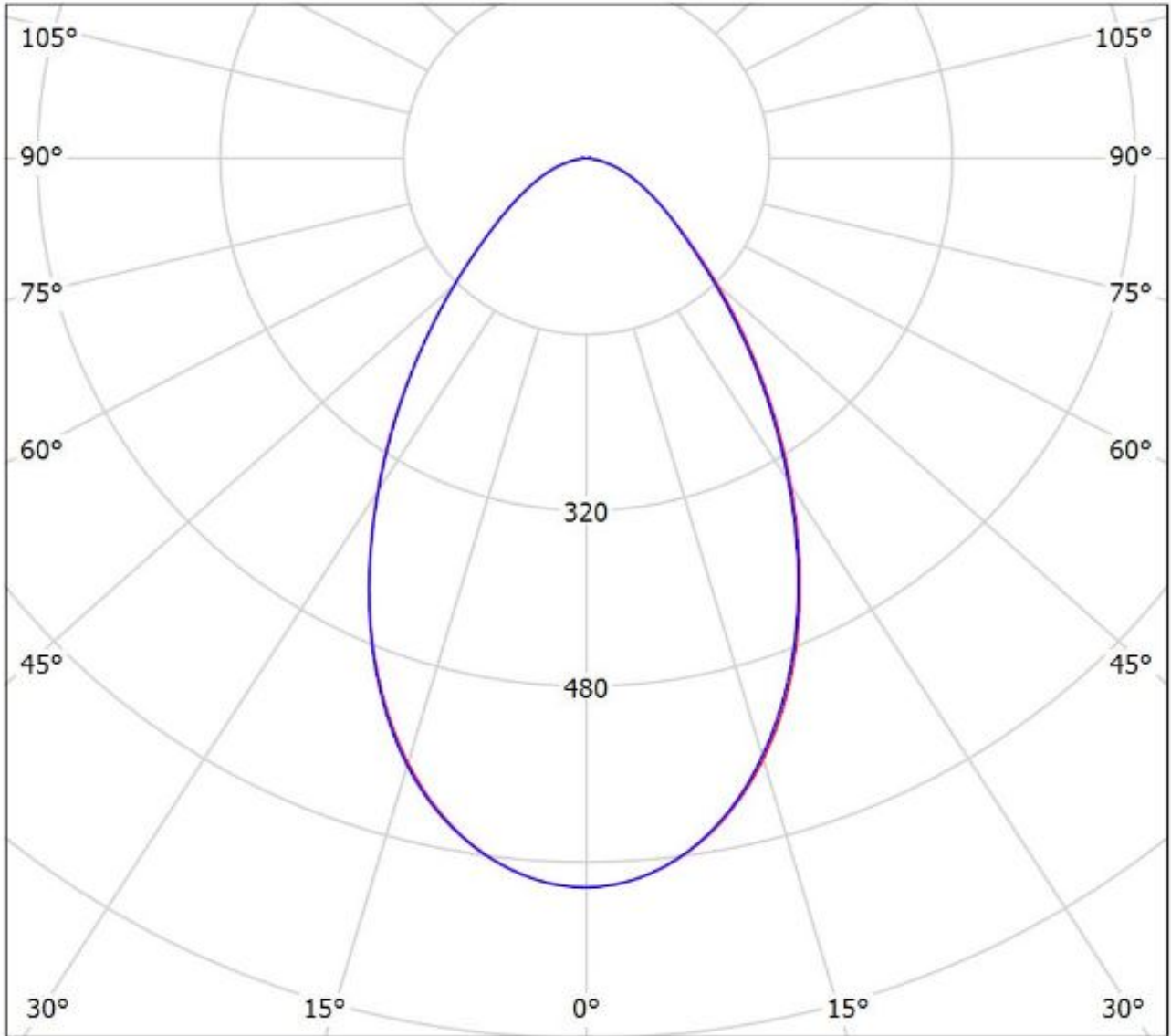


cd/klm

— C0 - C180

— C90 - C270

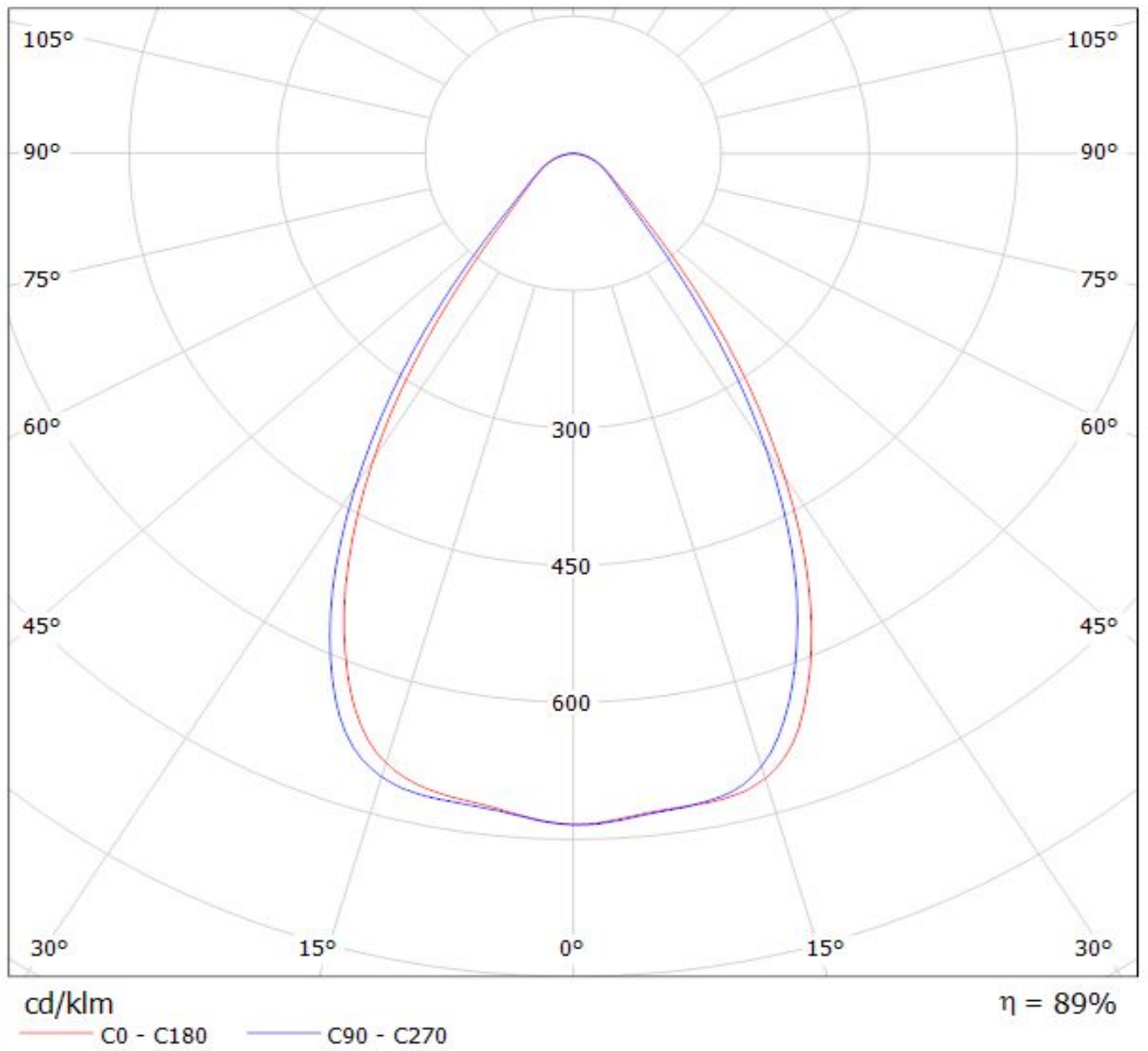
Luminaire: LEDiL Oy CN13990_SAGA-HB-IP-WHT_(SOLERIQ_P13)
Lamps: 1 x SOLERIQ_P13_(GW_MAGMB1.EM)_929.576lm@250mA_CCT=3500K_P=8.72876W_I=249.8mA



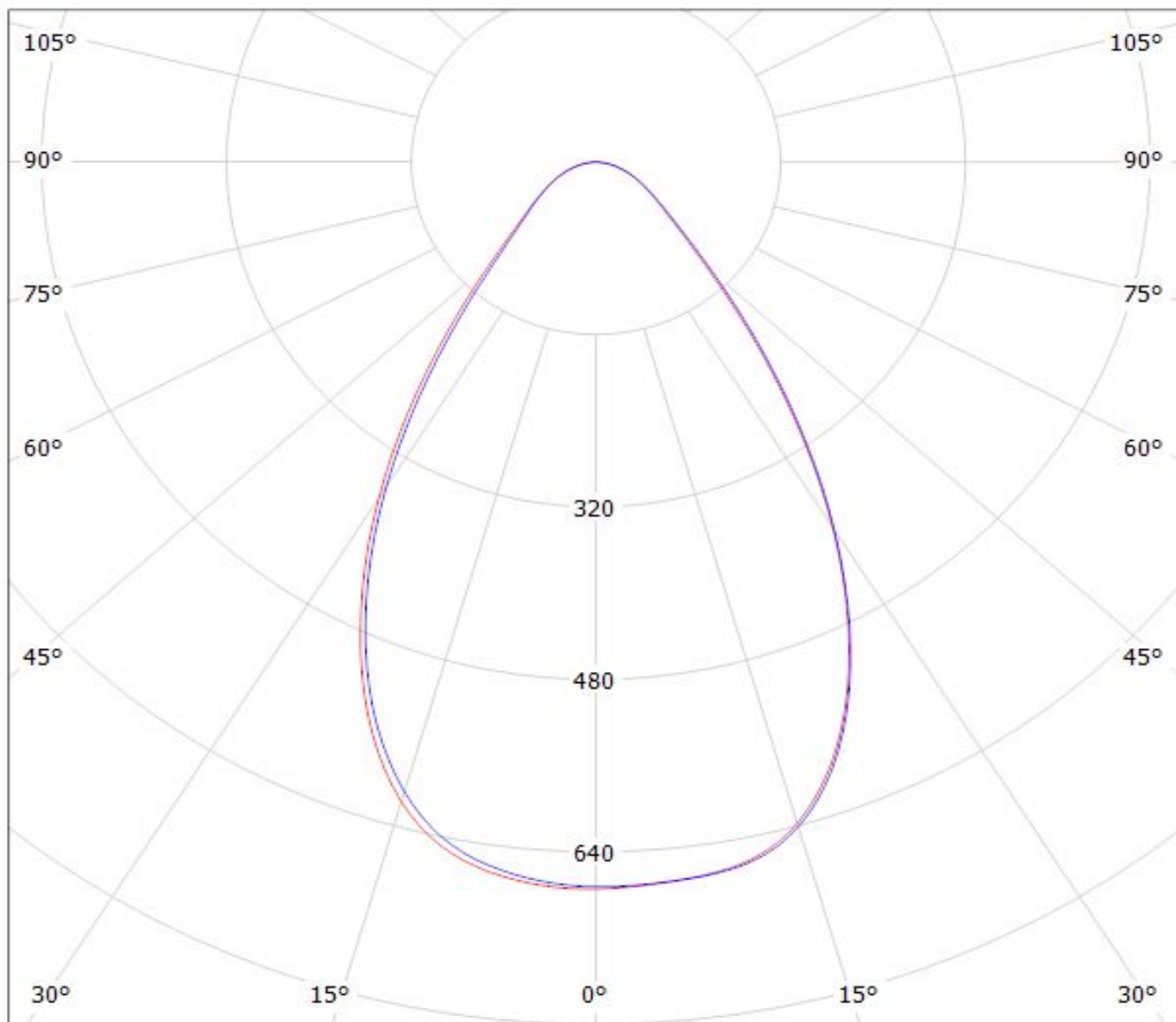
cd/klm
— C0 - C180 — C90 - C270

$\eta = 89\%$

Luminaire: LEDiL Oy CN13990_SAGA-HB-IP-WHT_(Soleriq_P6) Eff.88.5%
Lamps: 1 x Osram_Soleriq_P6_(GW_MAEGB1.EM)
_281.545lm@100mA_CCT=3793K_P=2.44805W_I=100.1mA



Luminaire: LEDiL Oy CN13990_SAGA-HB-IP-WHT_(V8) Eff.88.1%
Lamps: 1 x BRIDGELUX_V8_847.064lm@250mA_P=8.83692W_I=249.8mA



cd/klm

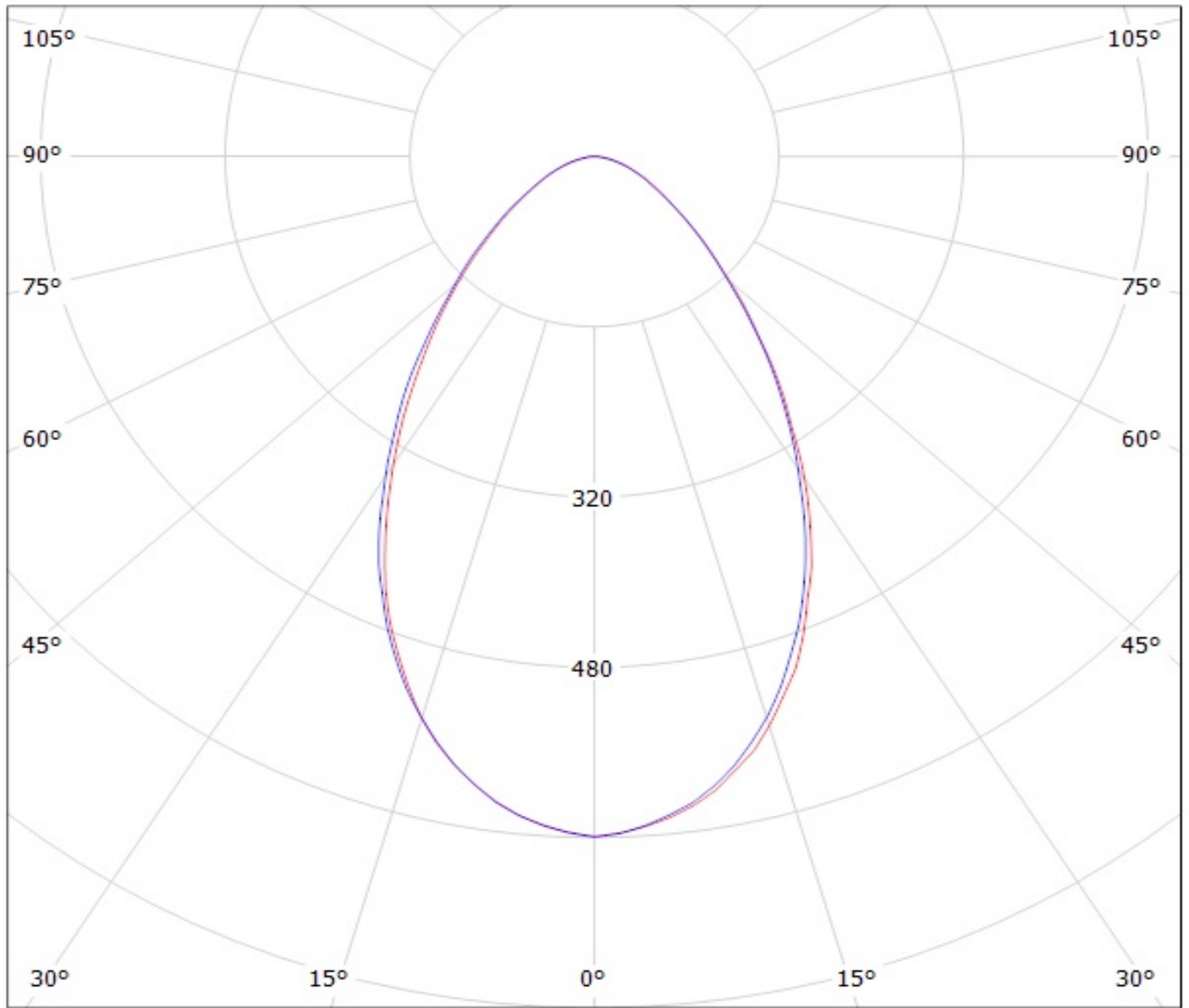
— C0 - C180

— C90 - C270

$\eta = 88\%$

Luminaire: LEDil Oy CN13990_SAGA-HB-IP-WHT_(CXM-14)

Lamps: 1 x Luminus CXM-14 (1058.75lm @ 250mA) CCT=3100K P=8.3W I=250mA



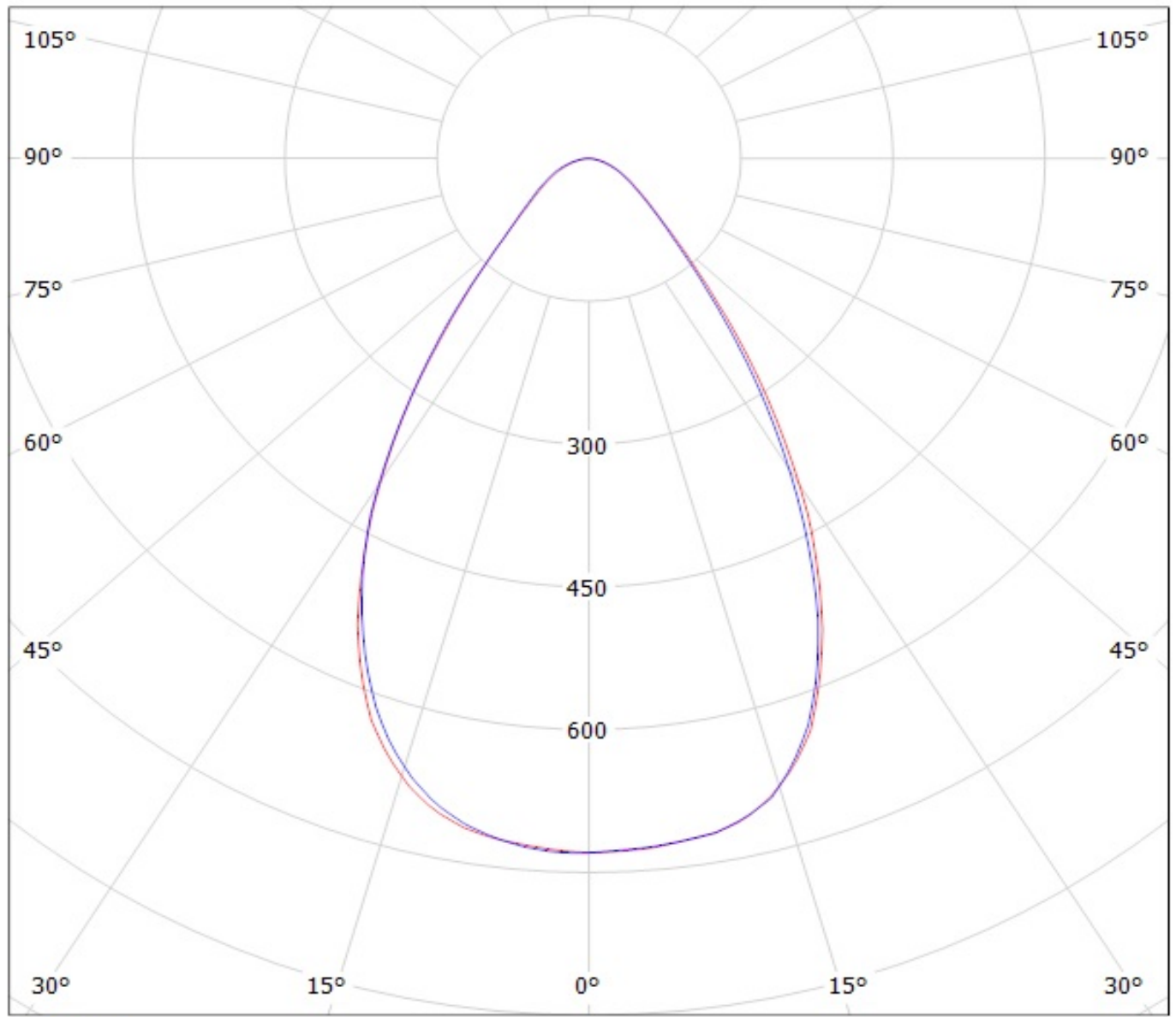
cd/klm

— C0 - C180

— C90 - C270

$\eta = 88\%$

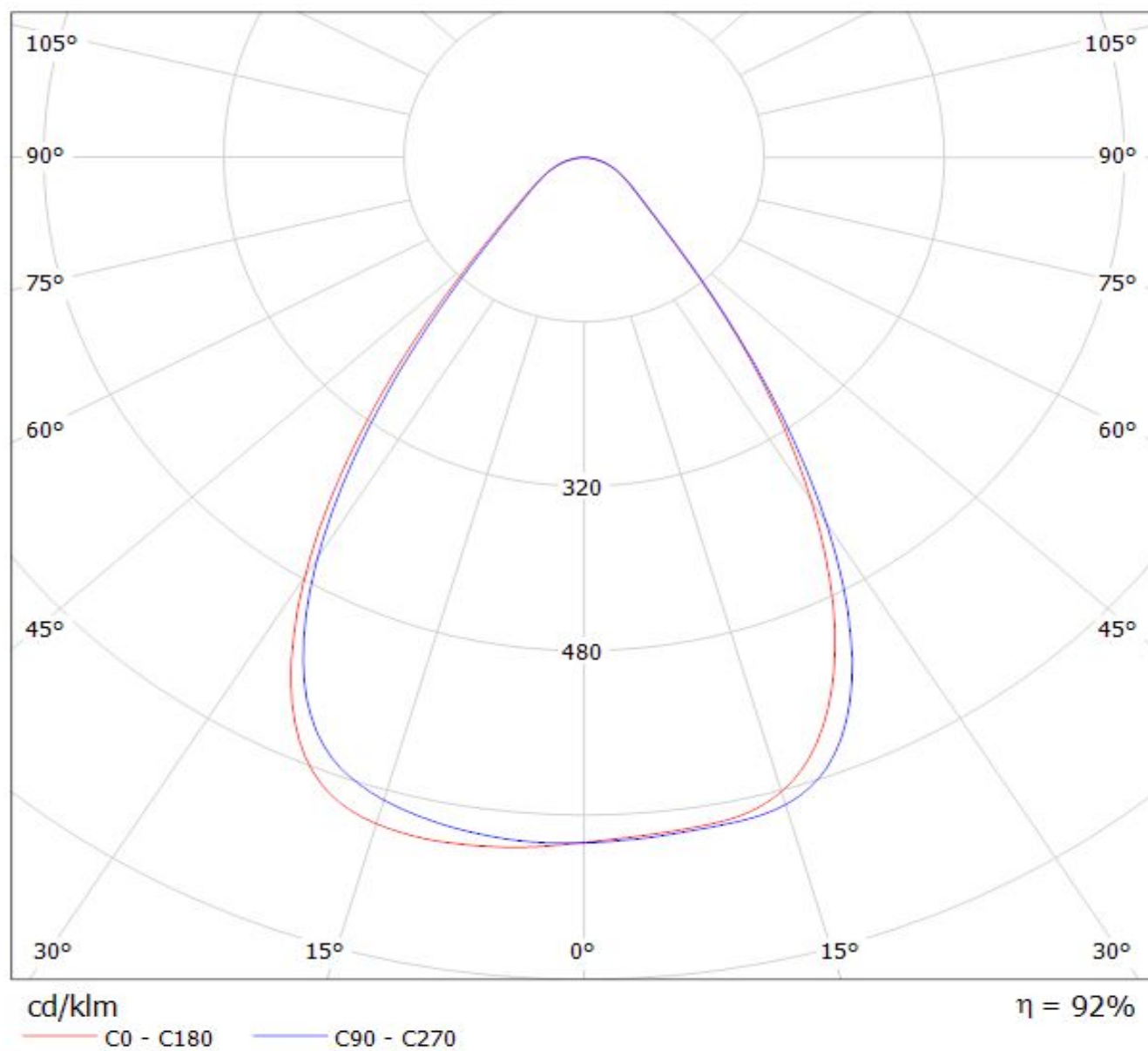
Luminaire: LEDil Oy CN13990_SAGA-HB-IP-WHT_(CXM-6) Efficiency=89%
Lamps: 1 x Luminus XNOVA CXM-6 (438lm @ 120mA) CCT=3200K P=4.2W I=120mA



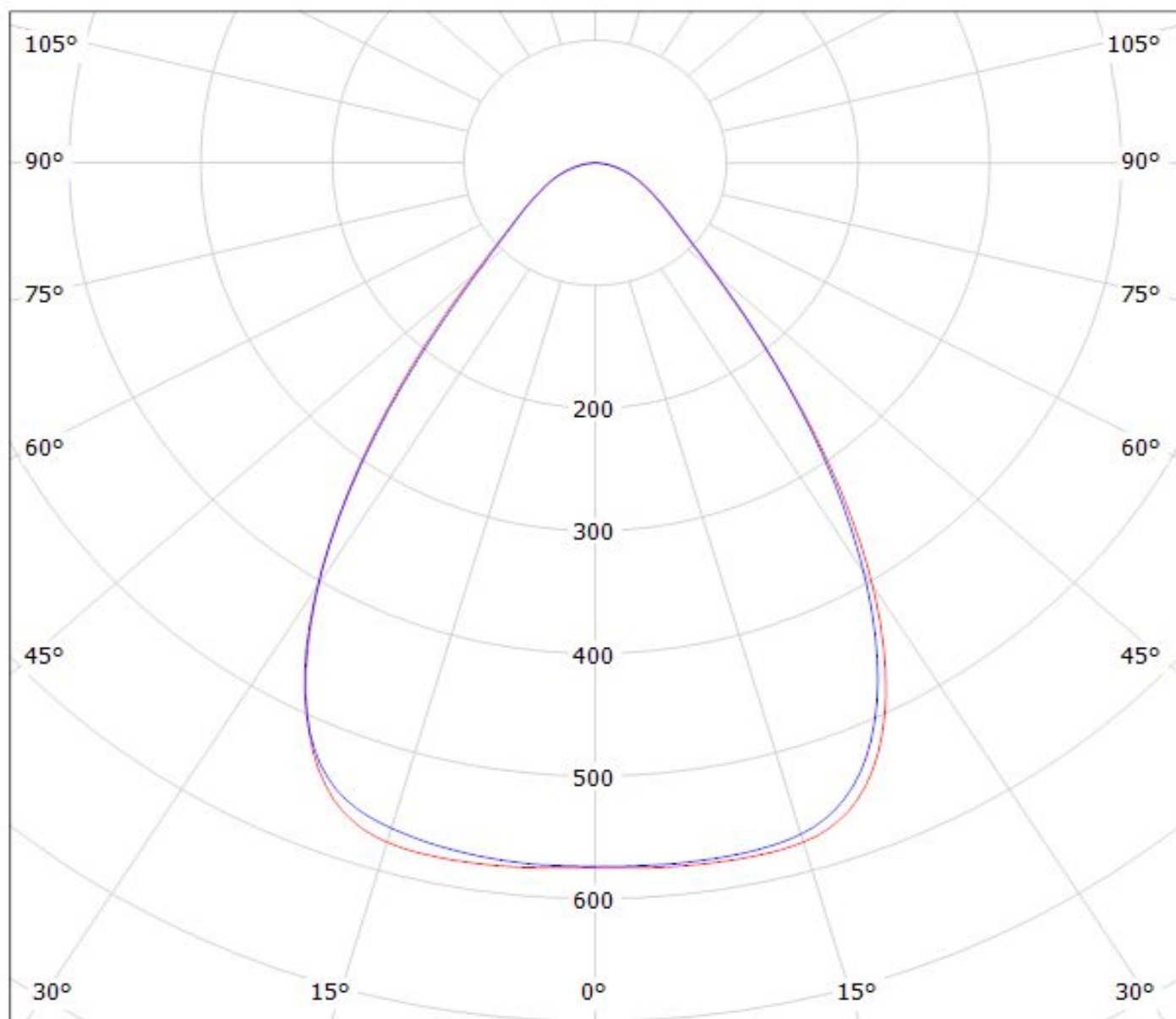
cd/klm

— C0 - C180 — C90 - C270

Luminaire: LEDiL Oy CN13990_SAGA-HB-IP-WHT_(CXA1304_9V) Eff.91.9%
Lamps: 1 x CREE_CXA1304_9V_265.569lm@250mA_P=2.21931W_I=249.9mA



Luminaire: LEDiL Oy CN13990_SAGA-HB-IP-WHT_(V6) Eff.88.1%
Lamps: 1 x BRIDGELUX_V6_488.215lm@250mA_P=5.22041W_I=249.9mA



cd/klm

— C0 - C180

— C90 - C270

$\eta = 88\%$

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.

GENERAL INFORMATION

- Product series especially designed & optimized for series of LEDs.
- Special care taken to make light distribution as uniform as possible.
- Reflector is made of aluminium coated PC (120 degrees of Celcius / 248 degrees of Fahrenheit) with protective lacquer (short term 100 degrees of Celcius / 212 degrees of Fahrenheit).

Note! Due to use of high power COB's with this product, special attention to proper thermal design is highly recommended. LEDiL has no liability for direct, indirect or consecutive damages arising from the LEDiL products being used outside of the recommended temperature range.