

## DETAILS

<b>Product Number</b>	CN14091_LENA-W-DL
<b>Family</b>	Lena
<b>Type</b>	RefPack
<b>Color</b>	metal
<b>Diameter</b>	111 mm
<b>Height</b>	86 mm
<b>Style</b>	round
<b>Optic Material</b>	PC
<b>Holder Material</b>	
<b>Fastening</b>	
<b>Status</b>	production ready
<b>ROHS Compliant</b>	Yes
<b>Date Updated</b>	2/11/2016



## OPTICAL PROPERTIES

LED	Viewing	Light	Effi-		Connector
	Angle	Beam	ciency	cd/lm	
VERO13	48 deg	Wide	80 %	1.180	-
VERO18	52 deg	Wide	80 %	1.210	-
V10 Gen7	sim: 44	Wide	sim: 81 %	sim: 1.690	Bender Wirth: 434 Typ L1
V13 Gen7	sim: 47	Wide	sim: 82 %	sim: 1.470	Bender Wirth: 477 Typ L1
CLL03x/CLU03x	47 deg	Wide	81 %	1.300	Bender Wirth: 433 Typ L1
CLU700/701	39 deg	Wide	81 %	1.900	Bender Wirth: 434 Typ L1
CLL02x/CLU02x (LES10)	45 deg	Wide	81 %	1.500	Bender Wirth: 434 Typ L1
CXA/B 15xx	44 deg	Wide	81 %	1.700	Bender Wirth: 441 Typ L1
CXM-14	sim: 47	Wide	sim: 81 %	sim: 1.300	Bender Wirth: 433 Typ L1
CXM-9	sim: 45	Wide	sim: 81 %	sim: 1.500	Bender Wirth: 434 Typ L1
COB L-Type (LES 9)	45 deg	Wide	79 %	1.400	Bender Wirth: 438 Typ L1
COB J-Type	49 deg	Wide	79 %	1.200	Bender Wirth: 463 Typ L2
COB L-Type (LES 11)	46 deg	Wide	79 %	1.400	Bender Wirth: 438 Typ L1
Solerialq P9	45 deg	Wide	81 %	1.400	Bender Wirth: 461 Typ L1
Solerialq P13	48 deg	Wide	79 %	1.300	Bender Wirth: 437 Typ L1
Solerialq S13	47 deg	Wide	78 %	1.400	Bender Wirth: 437 Typ L1
ZC12/18	sim: 47	Wide	sim: 81 %	sim: 1.300	Bender Wirth: 433 Typ L1
ZC4/6	sim: 45	Wide	sim: 81 %	sim: 1.500	Bender Wirth: 434 Typ L1

H G F E D C B A

4

3

2

1

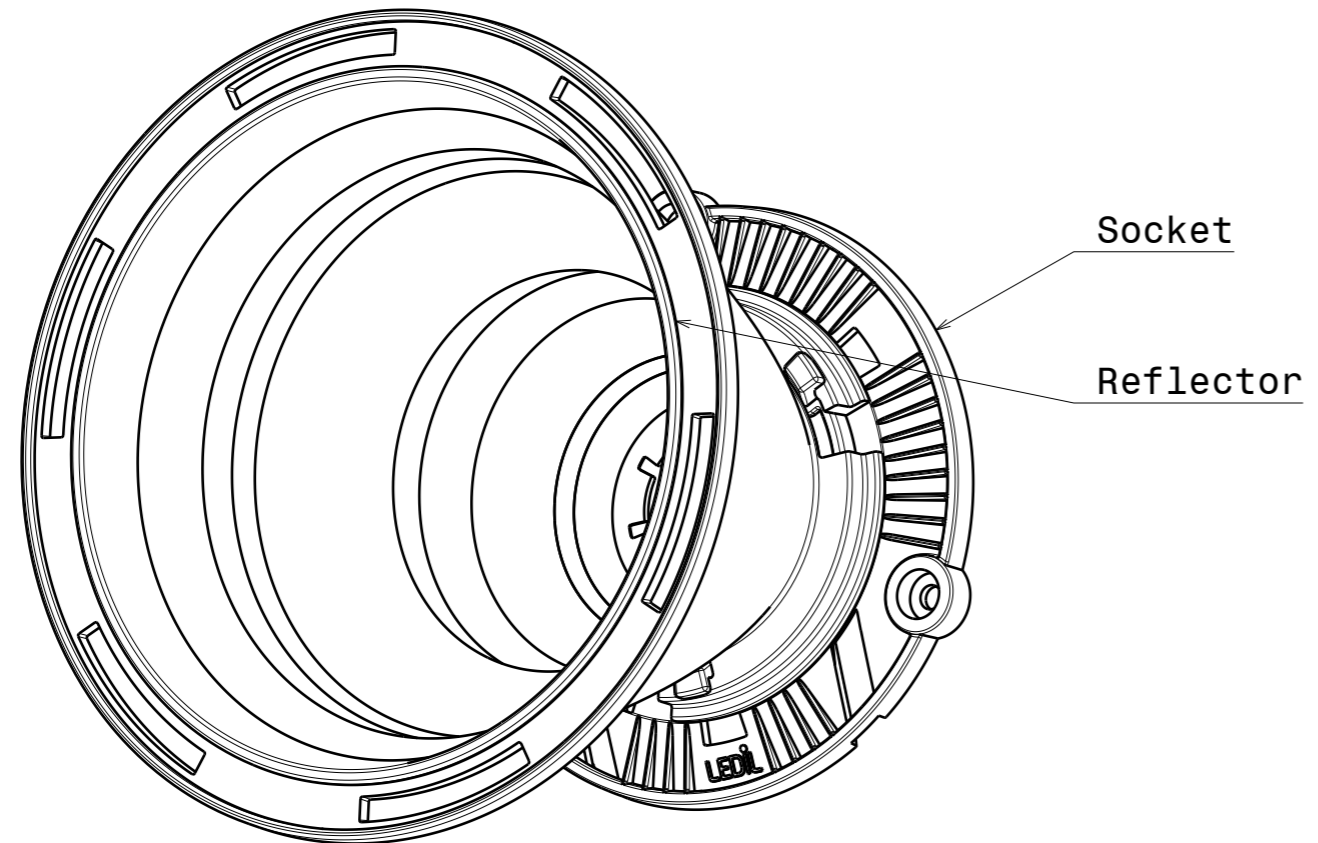
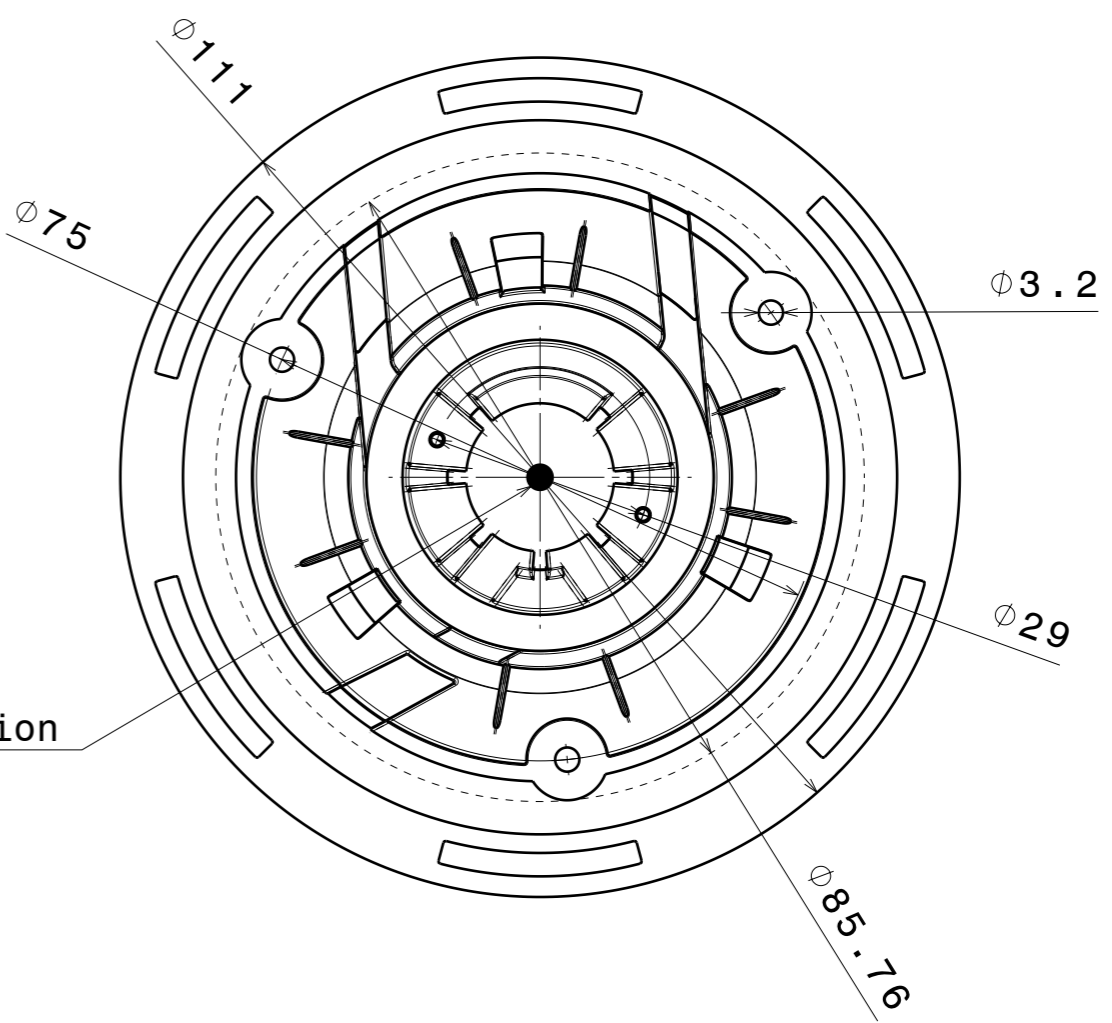
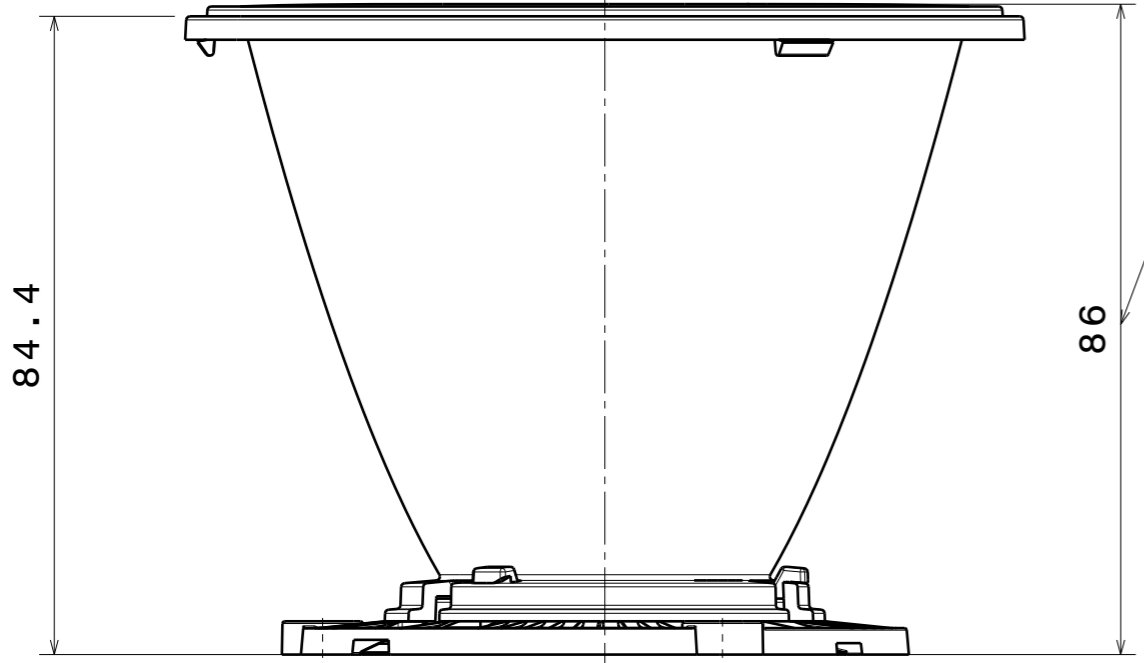
4

3

2

1

With optional diffusion lens



INDEX	PART NO	MATERIAL	COLOUR
1	Socket	PC	White
2	Reflector	PC	Metal

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** Ledil Oy  
 Salorankatu 10  
 FIN 24240 SALO  
 Finland

THIRD ANGLE PROJECTION:

DRAWING TITLE  
**DATA SHEET LENA-SOCKET VERO13-18**

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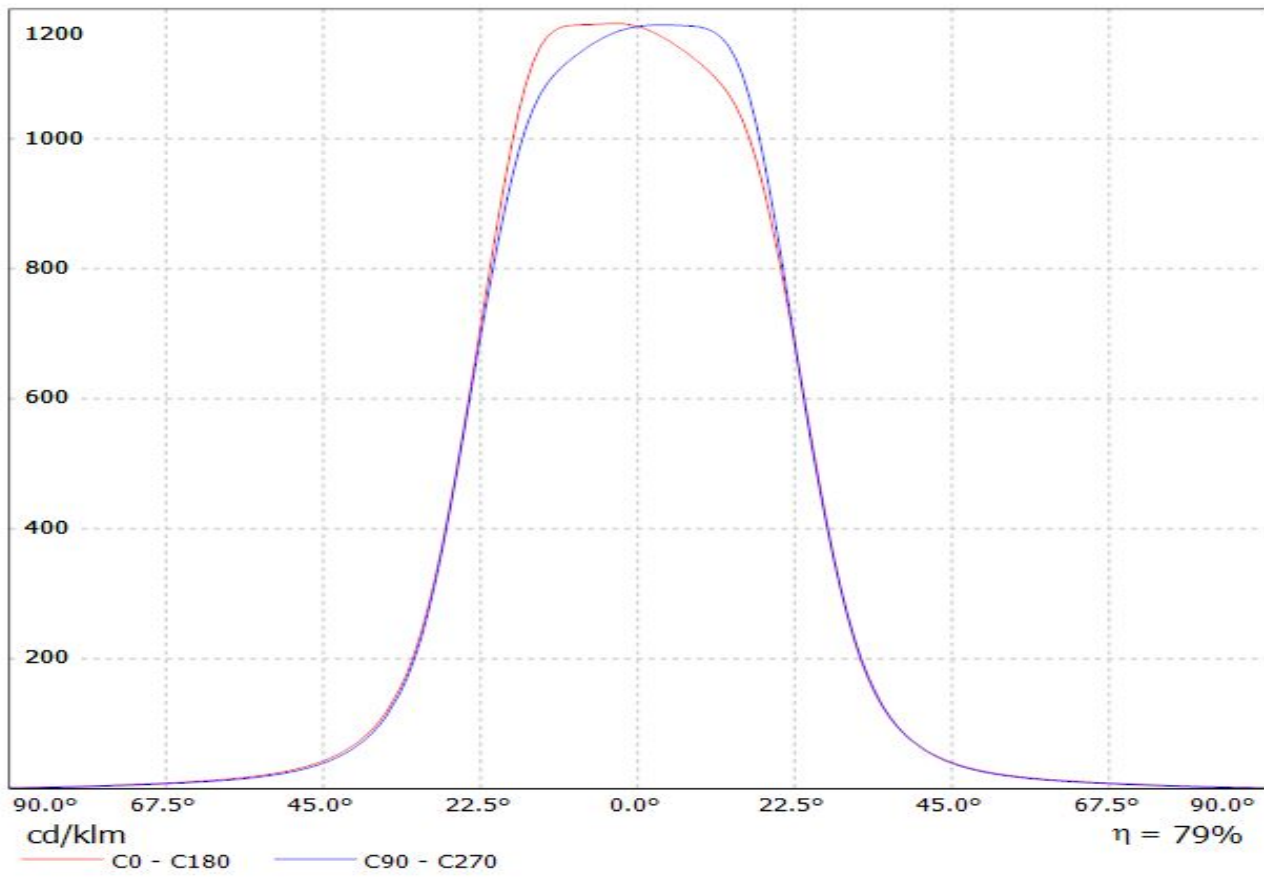
SIZE PART NUMBER  
**A3** -

SCALE 1:1 WEIGHT - SHEET 1/1

H G B A

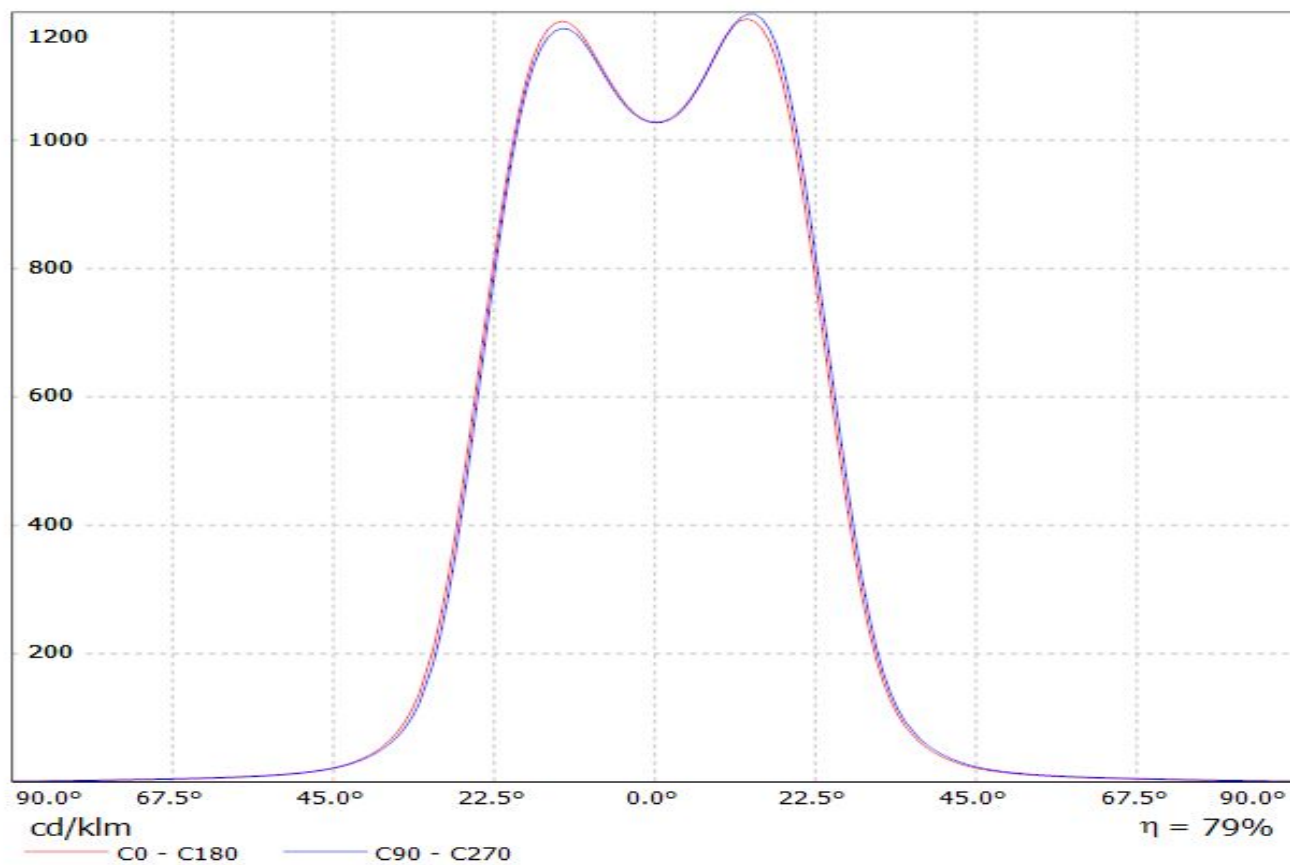
Luminaire: LEDiL Oy CN14091\_LENA-W-DL\_(VERO13)

Lamps: 1 x VERO13\_(BXRC-40E2000C)\_1047.61lm@250mA P=7.58043 I=0.2498A

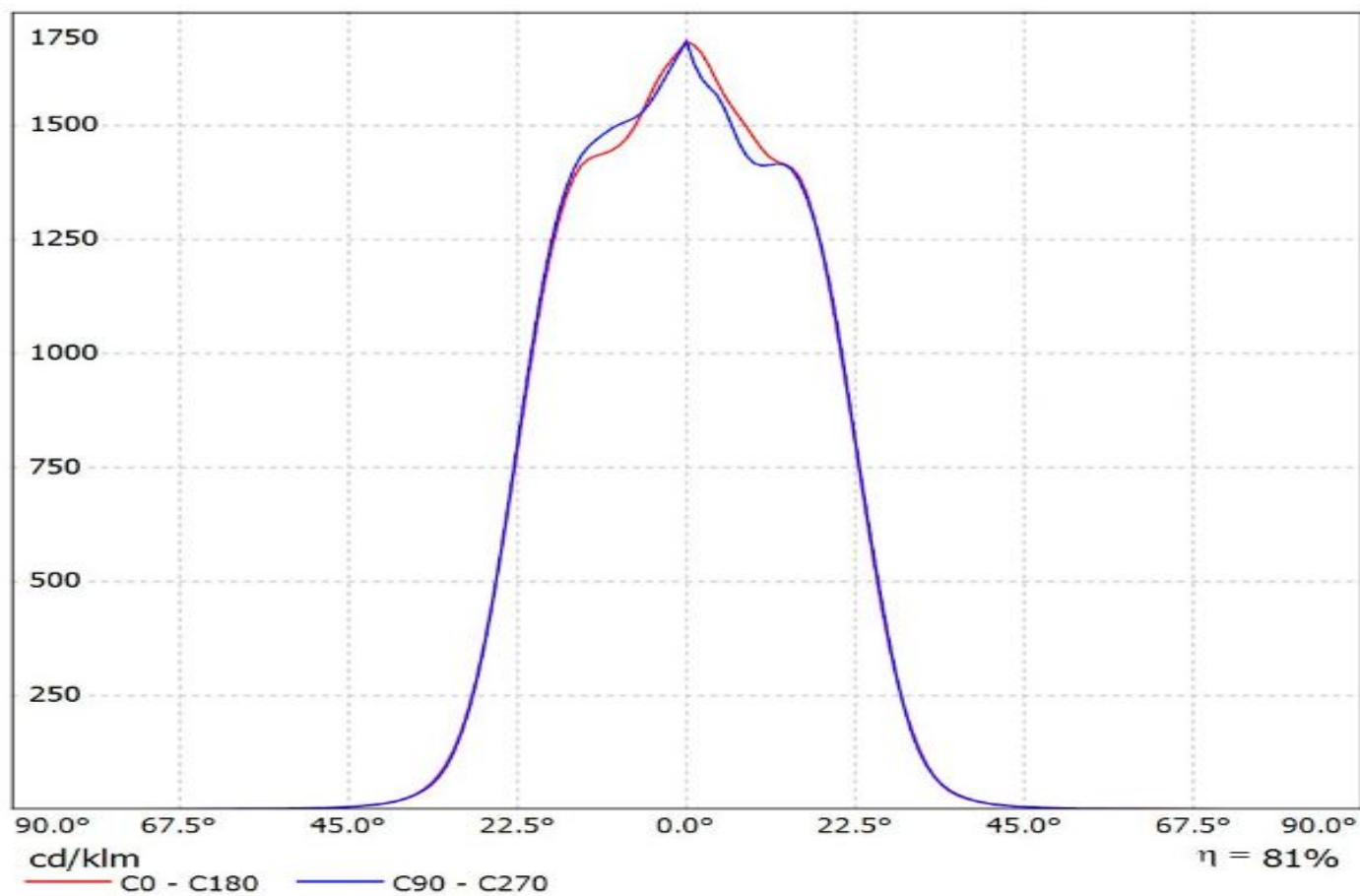


Luminaire: LEDiL Oy CN14091\_LENA-W-DL\_(VERO18)

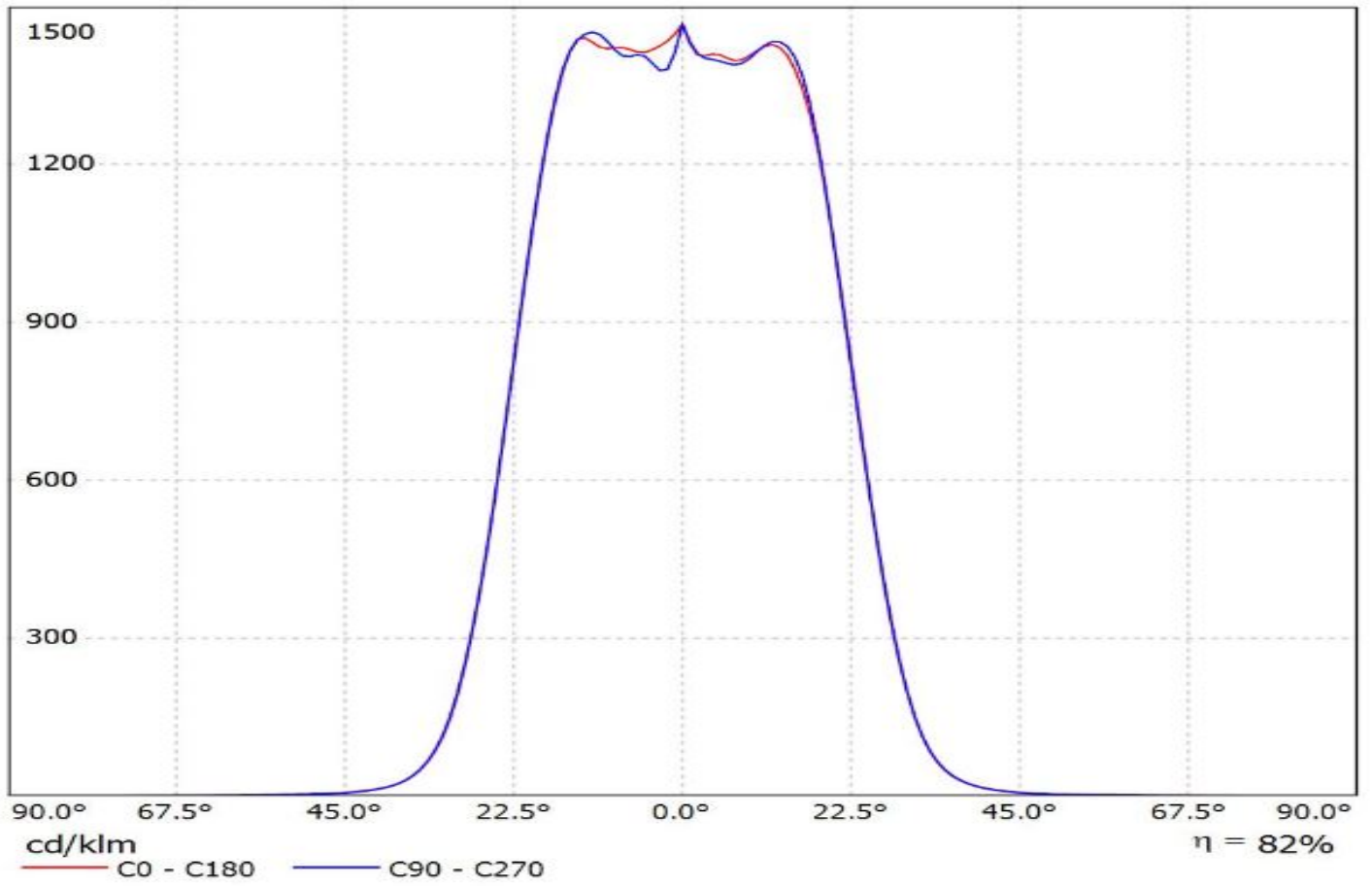
Lamps: 1 x VERO18\_(BXRC30E4000F)\_886.654lm@250mA P=6.76059W I=249.8mA



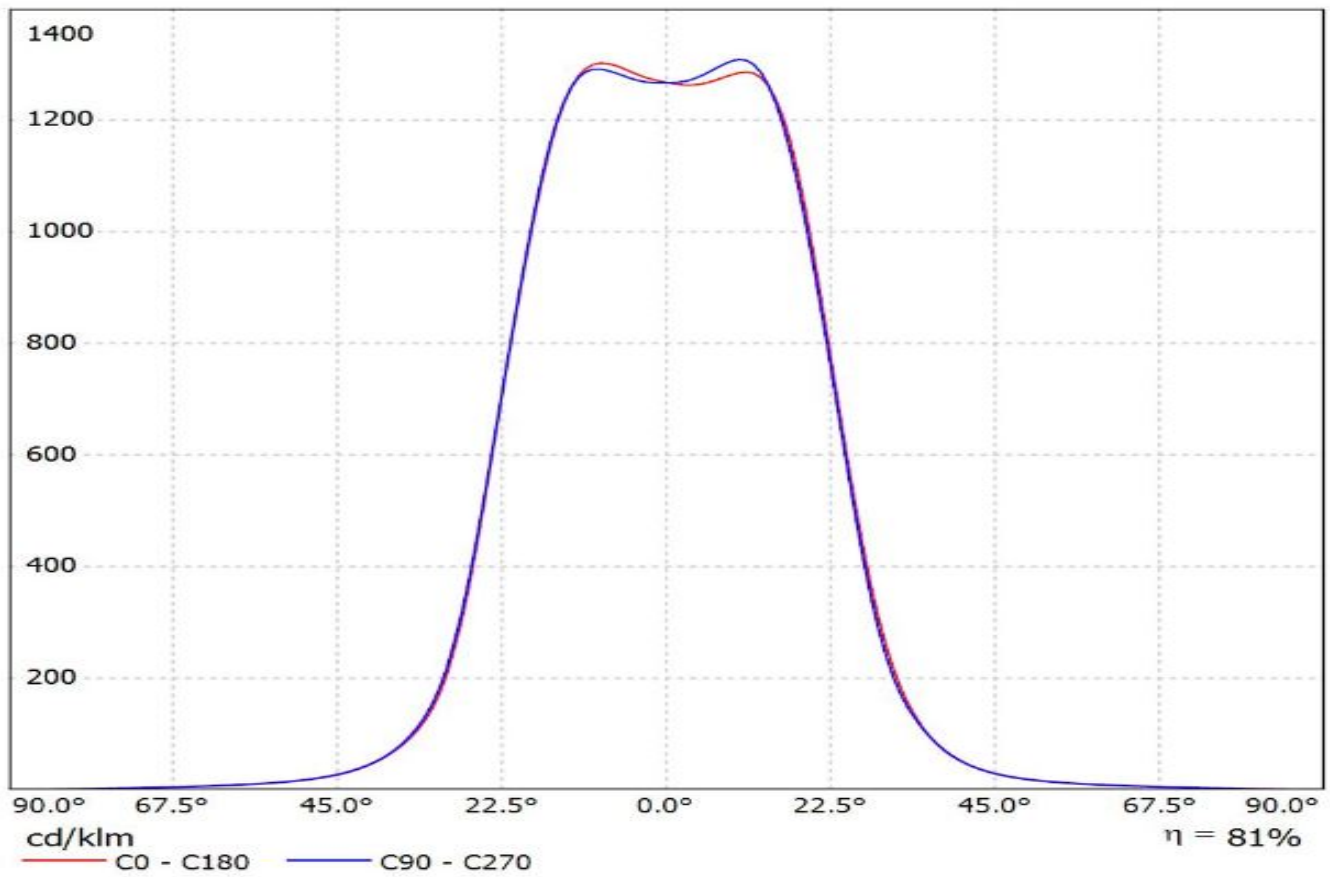
Luminaire: Ledil Oy CN14091\_LENA-W-DL+\_B&W\_434\_TypL1\_BRIDGELUX\_V10\_Gen7\_SIMULATED  
Lamps: 1 x BRIDGELUX V10 Gen7



Luminaire: Ledil Oy CN14091\_LENA-W-DL+\_B+W\_433\_TypL1\_BRIDGELUX\_V13\_Gen7\_SIMULATED  
Lamps: 1 x BRIDGELUX V13 Gen7

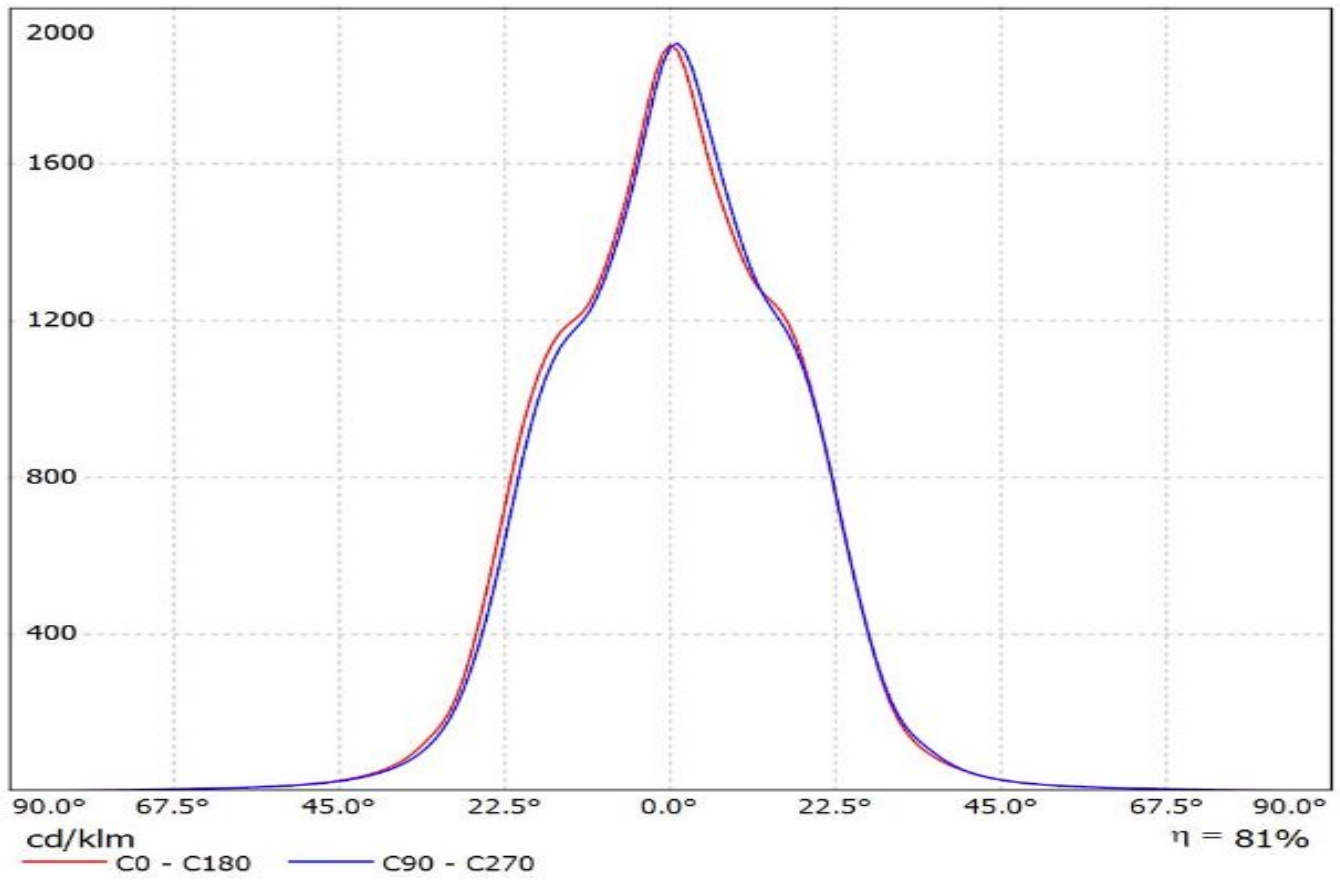


Luminaire: Ledil CN14091\_LENA-W-DL\_(CLU034)\_ (433\_Typ\_L1) Citizen\_CLU034\_(CLU034-1205B8-303M1A2)\_ 1159.01lm@250mA\_P=8.5W\_I=0.25A  
Lamps: 1 x Citizen\_CLU034\_(CLU034-1205B8-303M1A2)\_ 1159.01lm@250mA\_P=8.5W\_I=0.25A



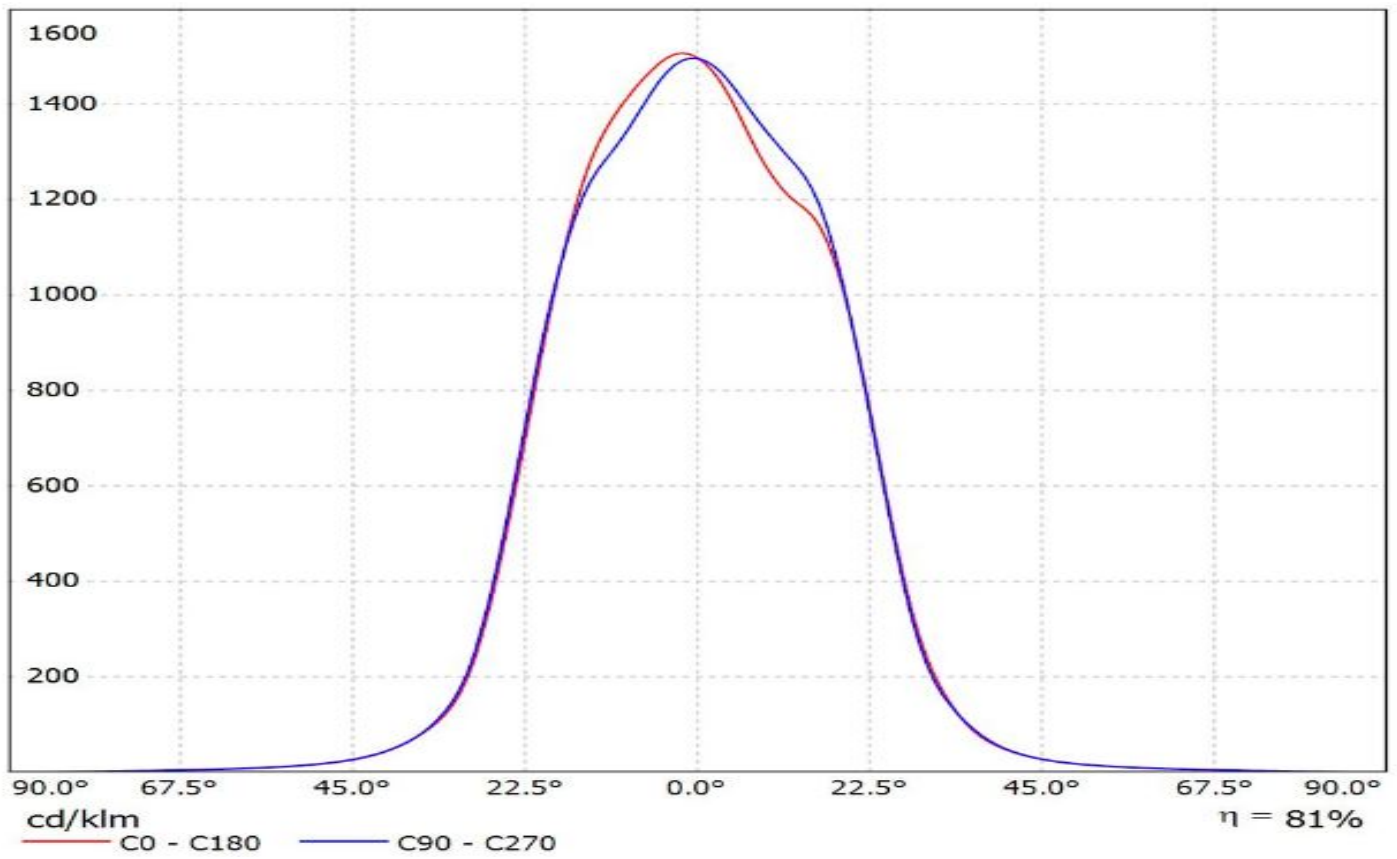
Luminaire: Ledil CN14091\_LENA-W-DL\_(CLU700)

Lamps: 1 x Citizen\_CLU700\_(CLU700-1002B8-273M2G1)\_(434\_Typ\_L1)\_(C13868\_LENA-STD-BASE-VERO13-18)\_385.255lm@100mA\_P=2.82W\_I=0.10A

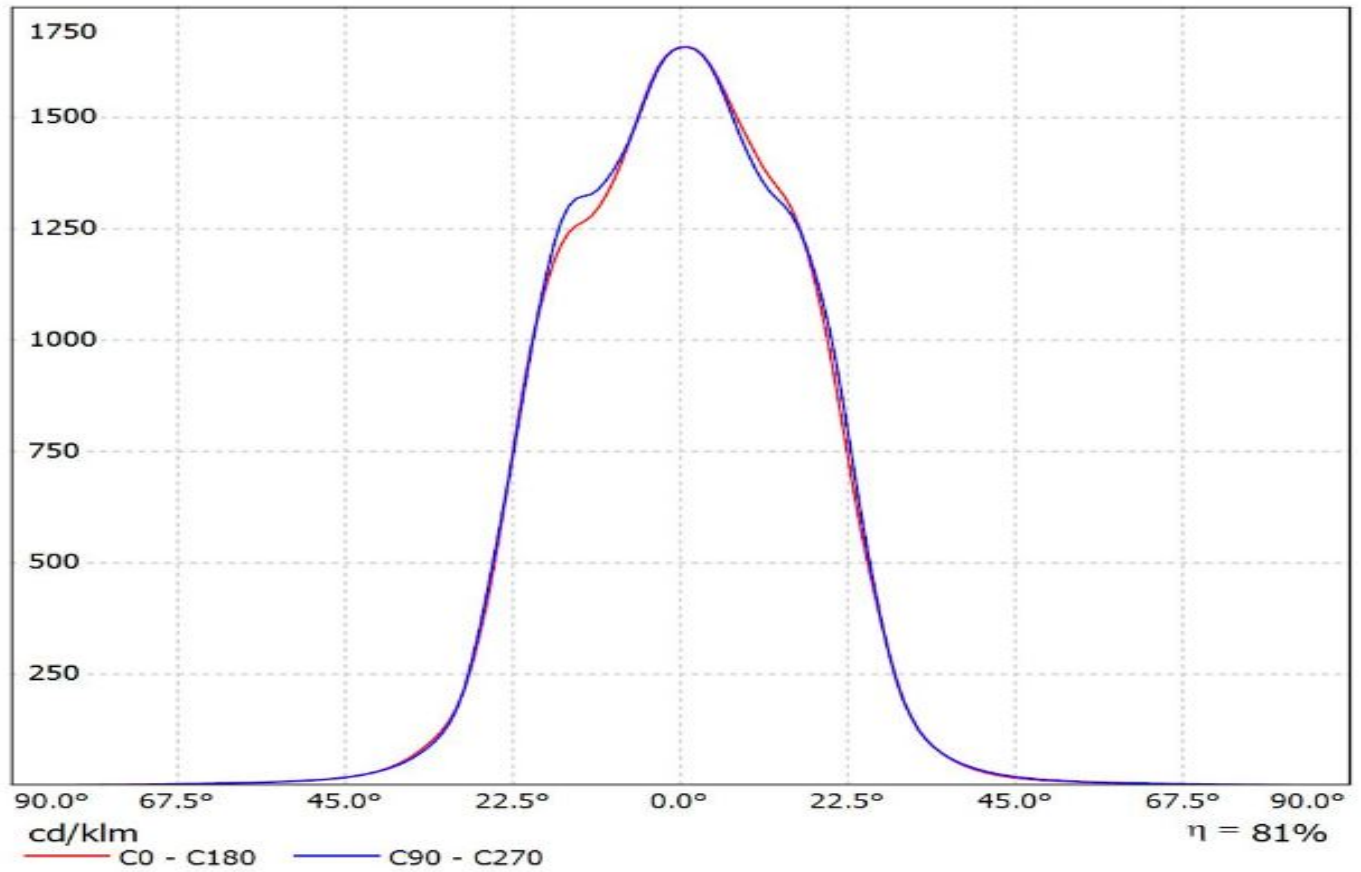




Luminaire: Ledil CN14091\_LENA-W-DL\_(CLU024)\_(434\_Typ\_L1) Citizen\_CLU024\_(CLU024-1204B8-303M1AZ)\_(434\_Typ\_L1)\_(C13868\_LENA-STD-BASE-VERO13-18)  
\_1048.43lm@250mA\_P=8.6W\_I=0.25A  
Lamps: 1 x Citizen\_CLU024\_(CLU024-1204B8-303M1AZ)\_(434\_Typ\_L1)\_(C13868\_LENA-STD-BASE-VERO13-18)\_1048.43lm@250mA\_P=8.6W\_I=0.25A

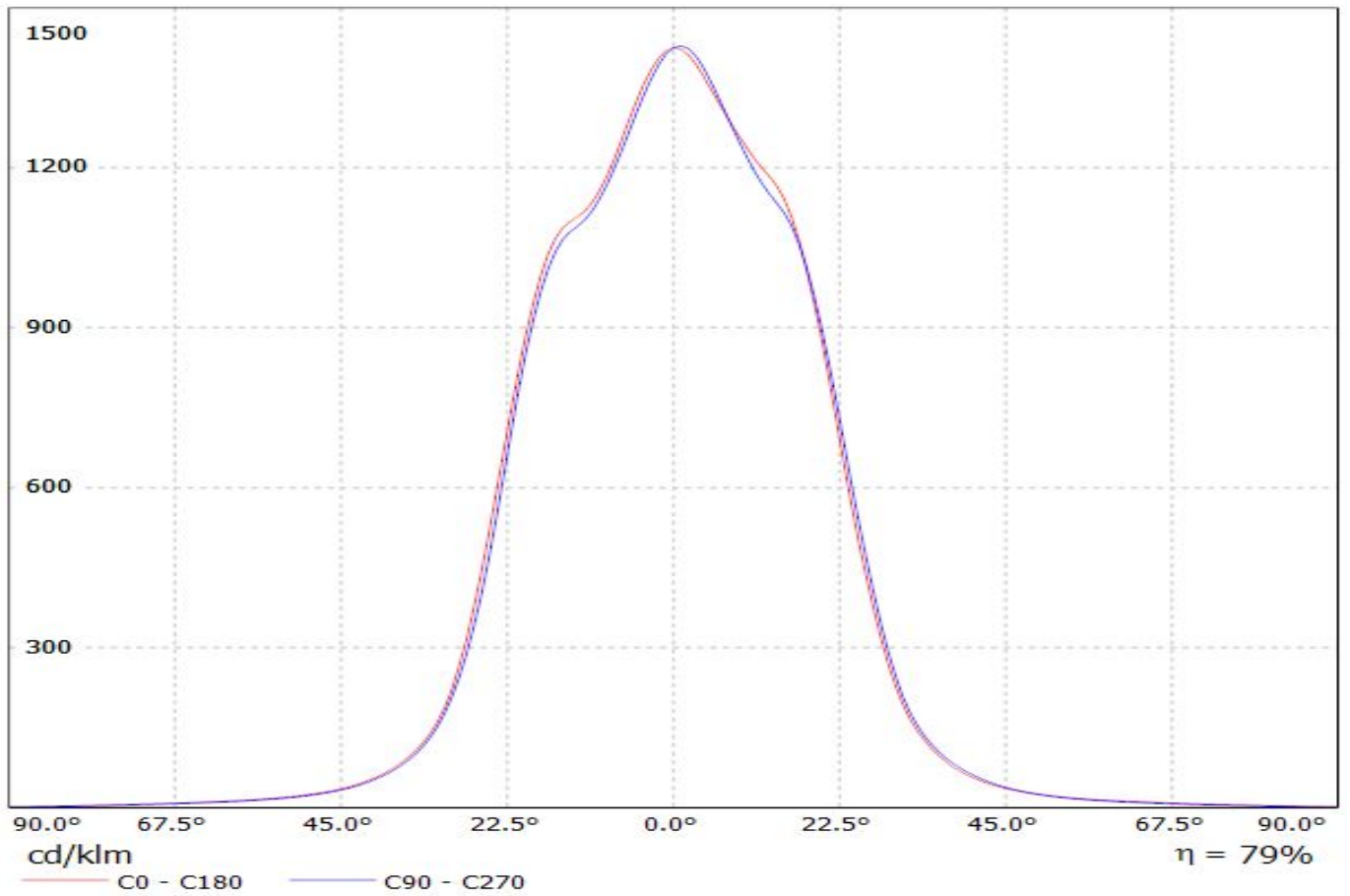


Luminaire: Ledil CN14091\_LENA-W-DL\_(CXA1520) Cree\_CXA1520\_(CXA1520-30F-N4-00H-00001)\_  
(C13868\_LENA-STD-BASE-VERO13-18)\_ (441\_Typ\_L1)\_1020.39lm@250mA\_P=8.8025W\_I=0.25A  
Lamps: 1 x Cree\_CXA1520\_(CXA1520-30F-N4-00H-00001)\_ (C13868\_LENA-STD-BASE-VERO13-18)\_  
(441\_Typ\_L1)\_1020.39lm@250mA\_P=8.8025W\_I=0.25A



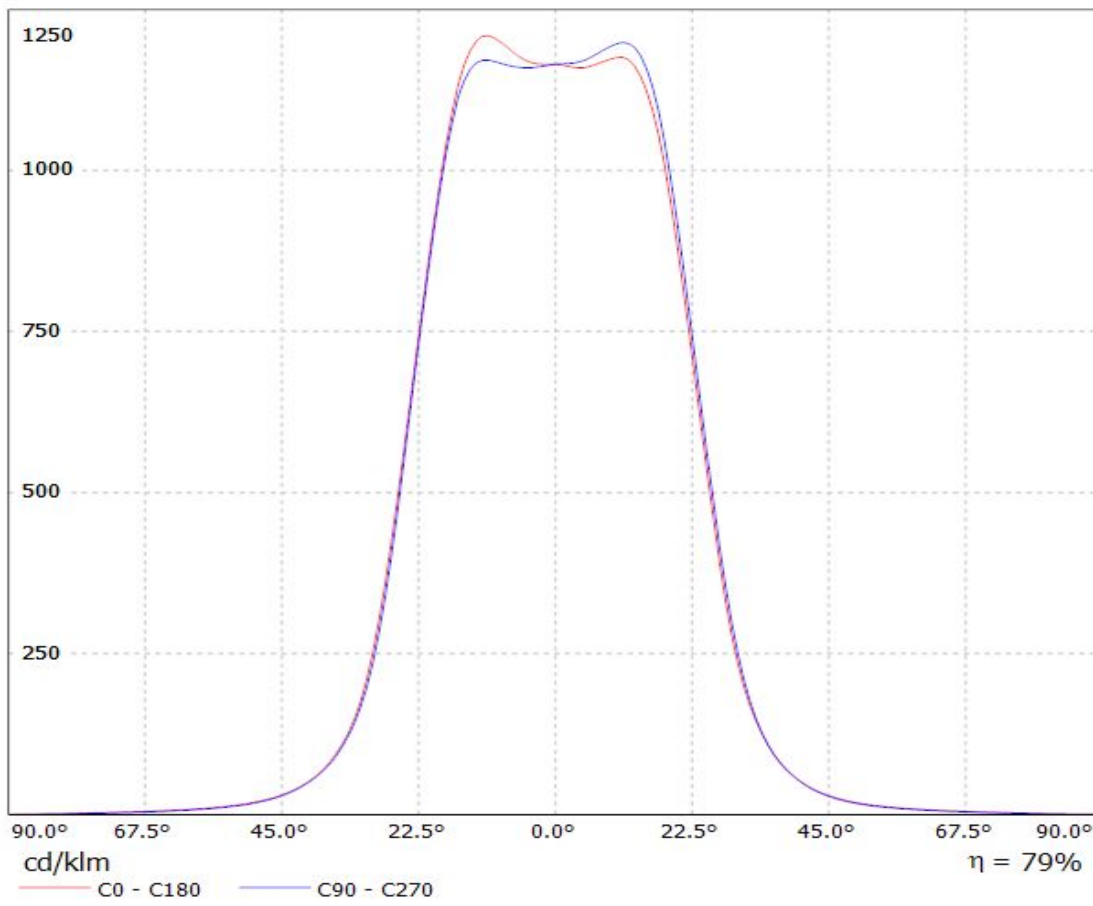
Luminaire: LEDiL Oy CN14091\_LENA-W-DL\_(NFCxL036B)

Lamps: 1 x NICHIA\_NFCxL036B\_(sm403J1300R8000)\_540.584lm@100mA\_CCT=4000K\_P=3.3W\_I=0.1A



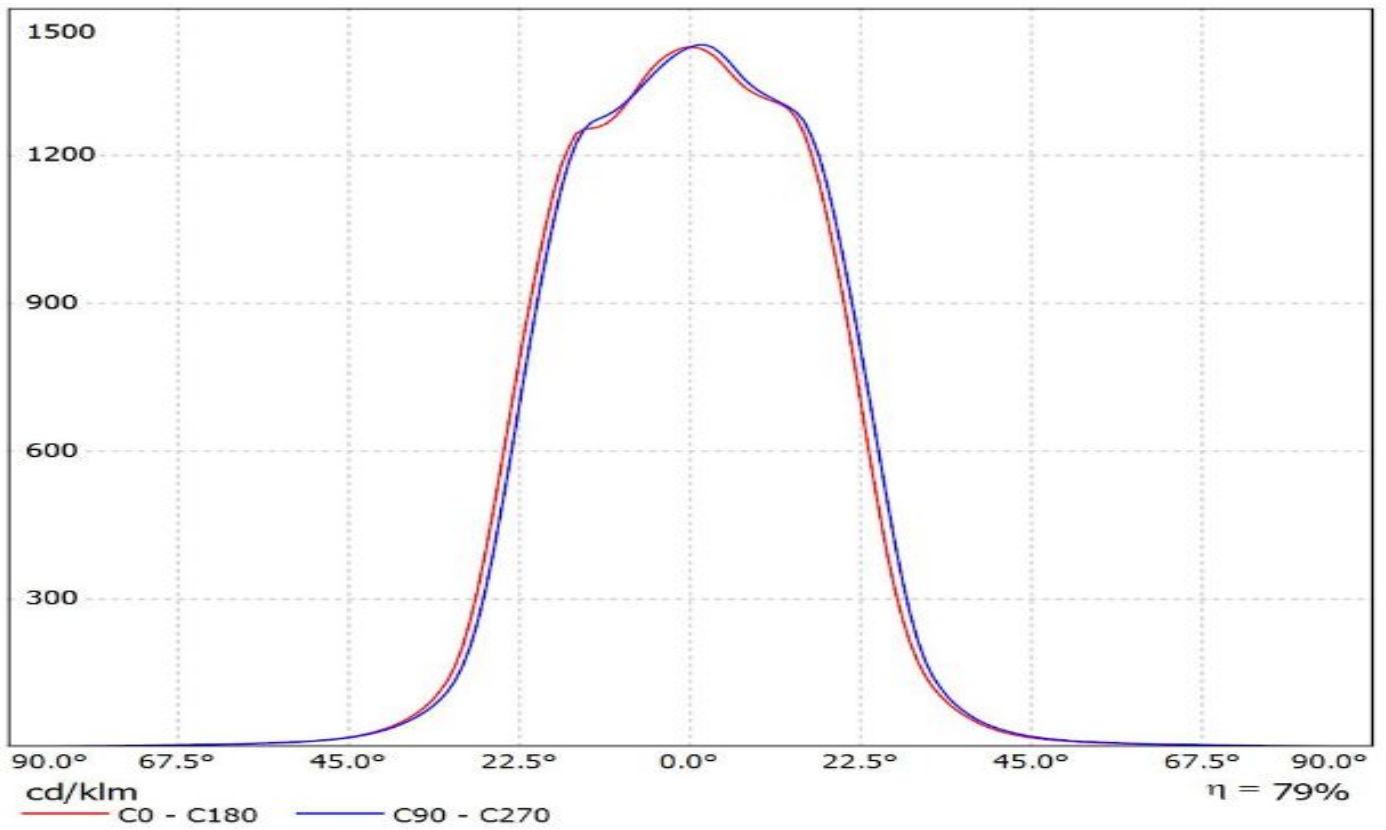
Luminaire: LEDiL Oy CN14091\_LENA-W-DL\_(NFDxJ130B)\_(463\_Typ\_L2)

Lamps: 1 x Nichia\_NFDxJ130B\_(C13868\_LENA-STD-BASE-VERO13-18)\_(463 Typ L2)\_1441.32lm@250mA\_P=8.88913W\_I=0.2498A



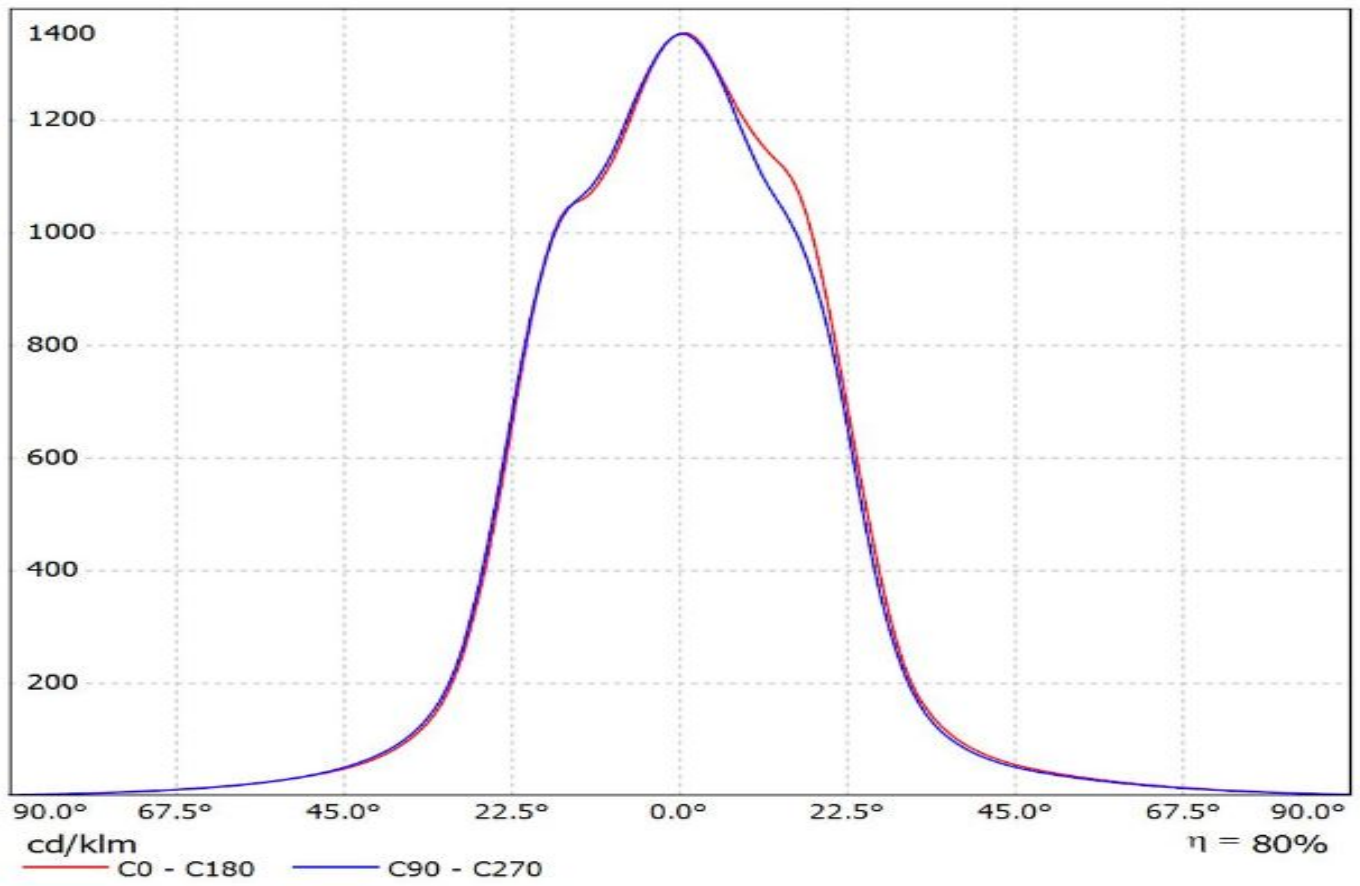
# LEDiL Oy CN14091\_LENA-W-DL\_(NFCxL060B) / LDC (Linear)

Luminaire: LEDiL Oy CN14091\_LENA-W-DL\_(NFCxL060B)  
Lamps: 1 x Nichia\_NFCxL060B\_(SM403G2450R8000)\_(438\_Typ\_L1)  
\_1276.73lm@250mA\_P=8.45587W\_I=0.2499A



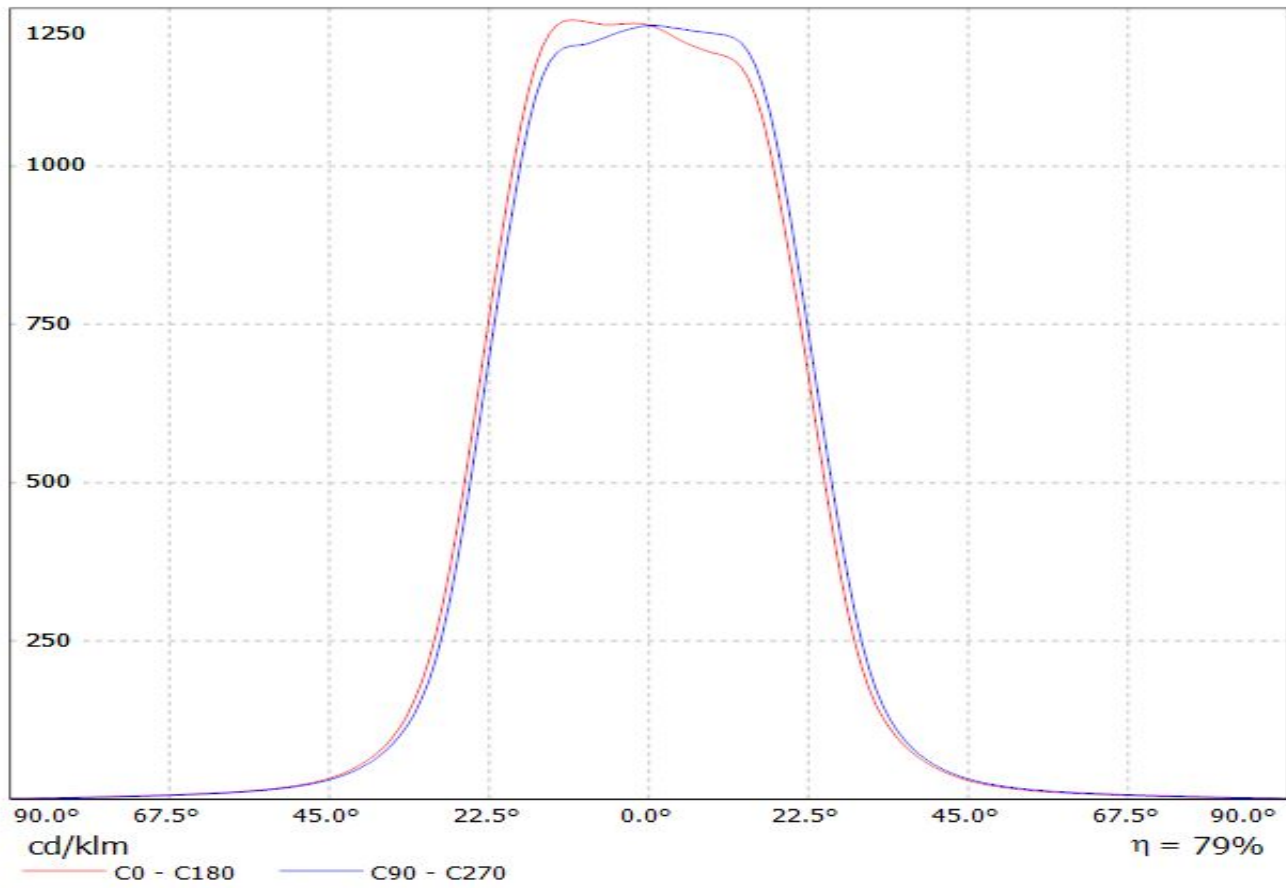
Luminaire: Ledil CN14091\_LENA-W-DL\_(Soleriq\_P9)

Lamps: 1 x Osram\_Soleriq\_P9\_(GW\_MAFJB1.EM)\_975.439lm@250mA\_CCT=4299K\_P=6.9W\_I=0.25A



Luminaire: LEDiL Oy CN14091\_LENA-W-DL\_(Soleriq\_P13)

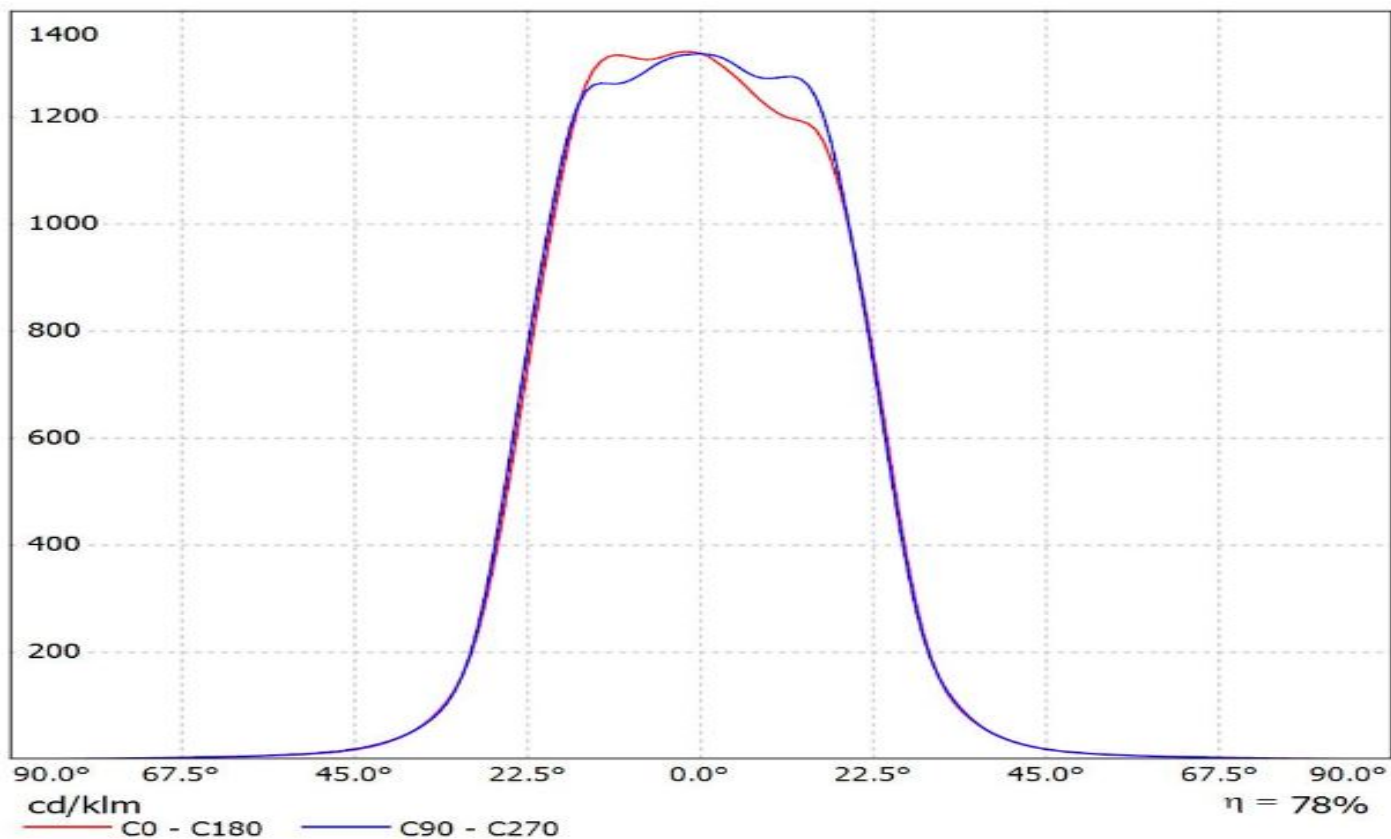
Lamps: 1 x Osram Soleriq P13 (GW MAGMB1.EM)\_919.464lm@250mA\_CCT=3500K\_P=8.80195W\_I=0.25A



# Ledil CN14091\_LENA-W-DL\_(Soleriq\_S13) / LDC (Linear)

Luminaire: Ledil CN14091\_LENA-W-DL\_(Soleriq\_S13)

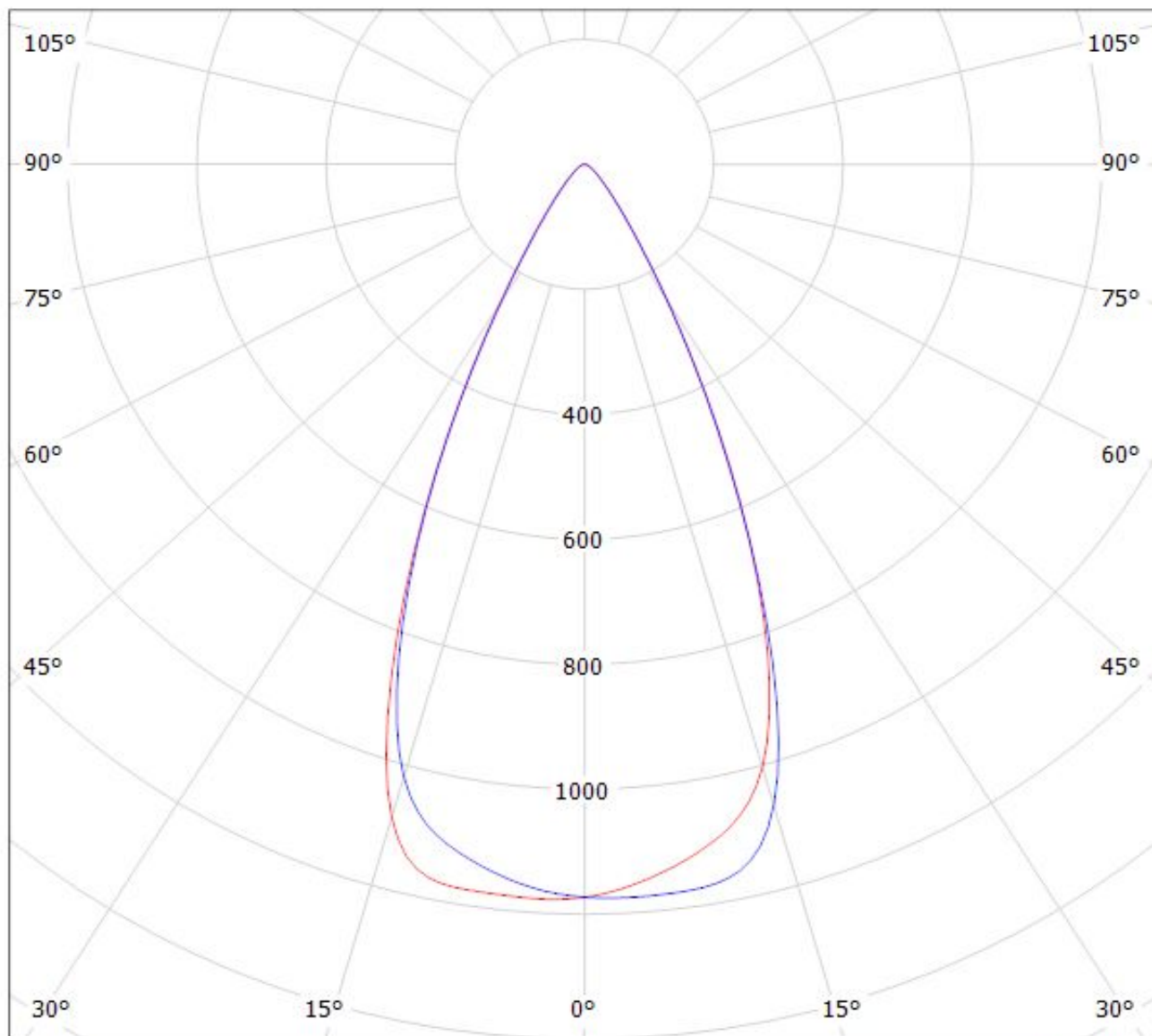
Lamps: 1 x Osram\_Soleriq\_S13\_(GW\_KAGHB1.EM)\_921.228lm@250mA\_P=7.44679W\_I=250mA





Luminaire: LEDiL Oy CN14091\_LENA-W-DL\_(VERO13)

Lamps: 1 x VERO13\_(BXRC-40E2000C)\_1047.61lm@250mA P=7.58043 I=0.2498A



cd/klm

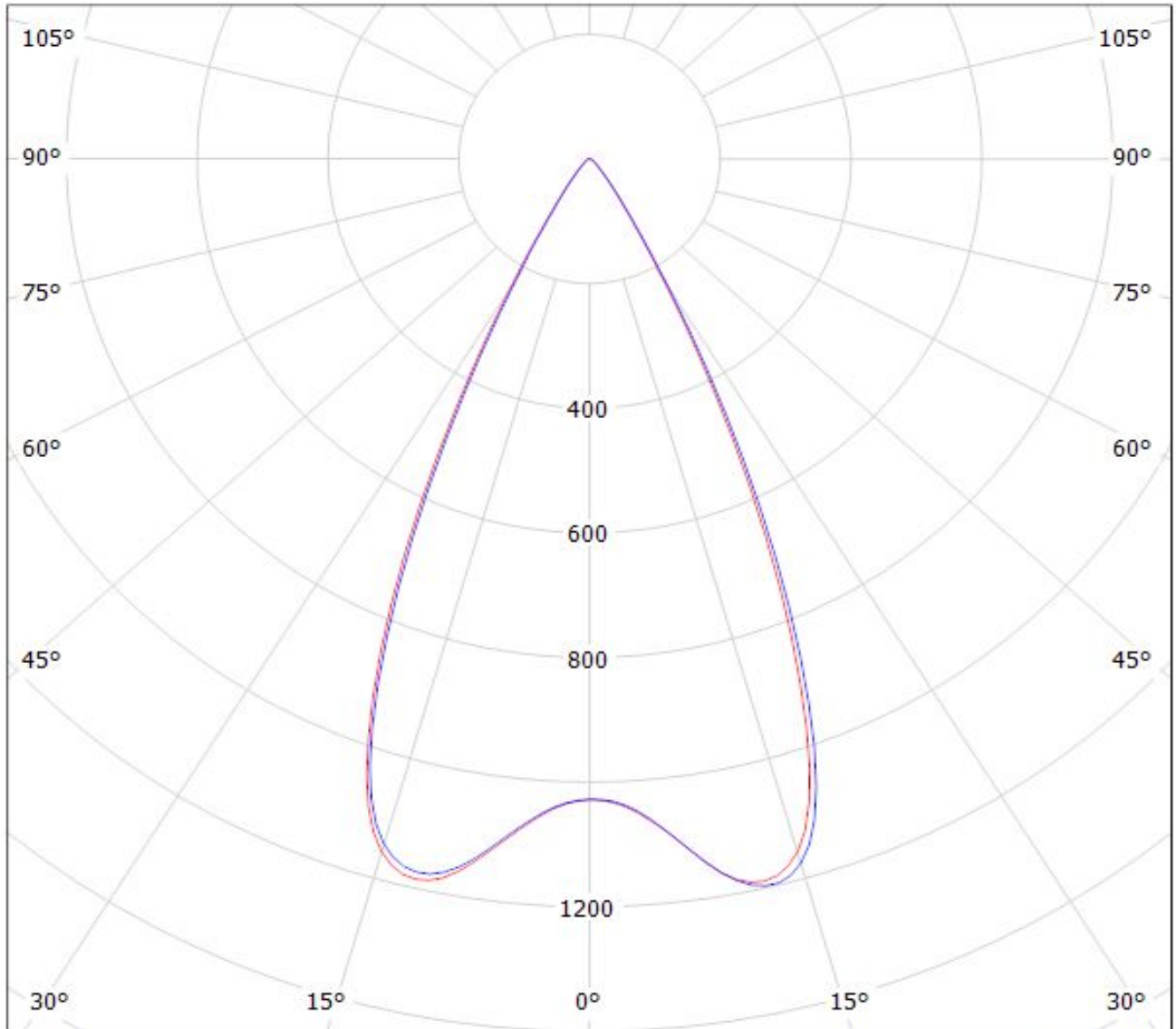
— C0 - C180

— C90 - C270

$\eta = 79\%$

Luminaire: LEDiL Oy CN14091\_LENA-W-DL\_(VERO18)

Lamps: 1 x VERO18\_(BXRC30E4000F)\_886.654lm@250mA P=6.76059W I=249.8mA



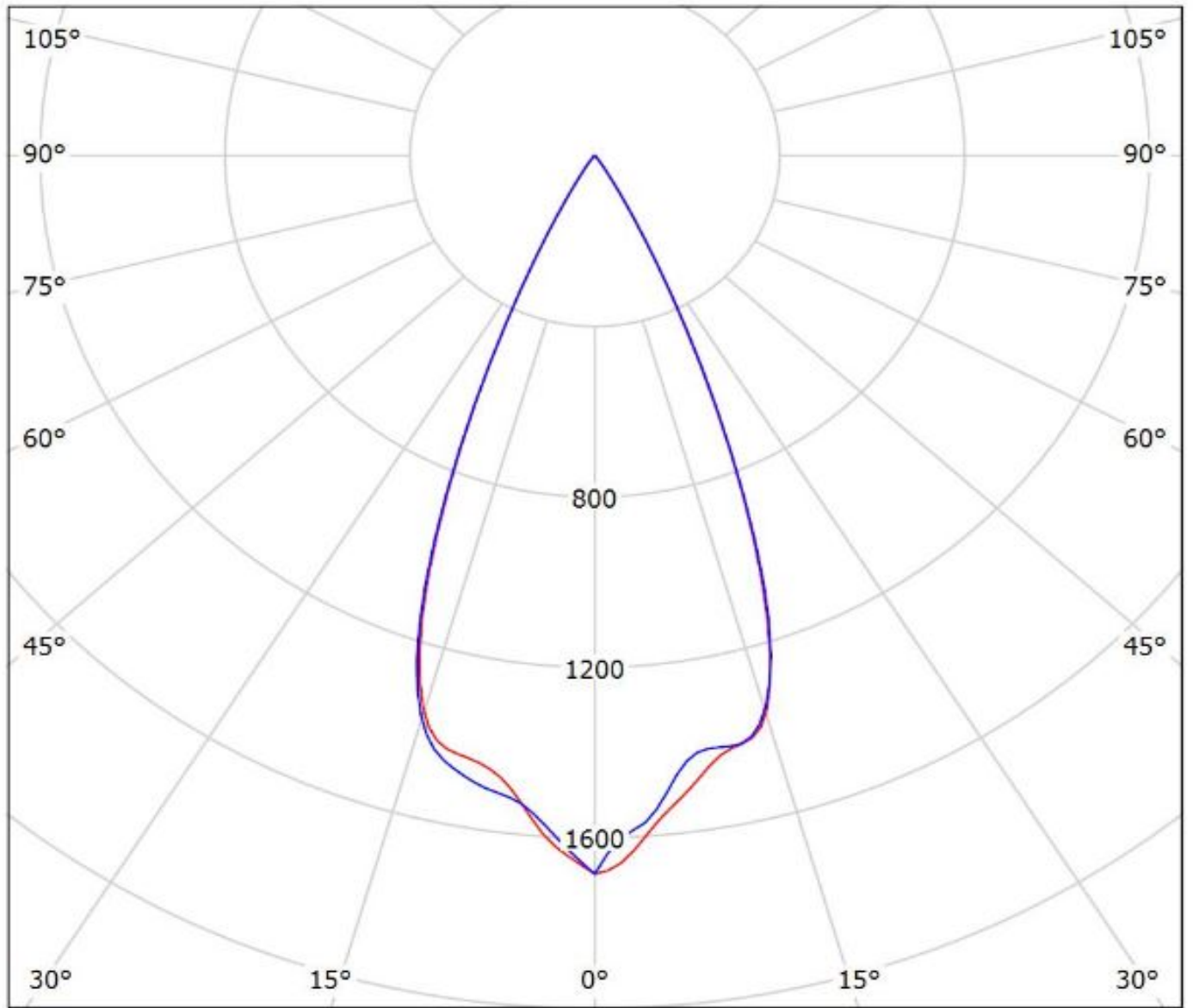
cd/klm

— C0 - C180

— C90 - C270

$\eta = 79\%$

Luminaire: Ledil Oy CN14091\_LENA-W-DL+\_B&W\_434\_TypL1\_BRIDGELUX\_V10\_Gen7\_SIMULATED  
Lamps: 1 x BRIDGELUX V10 Gen7



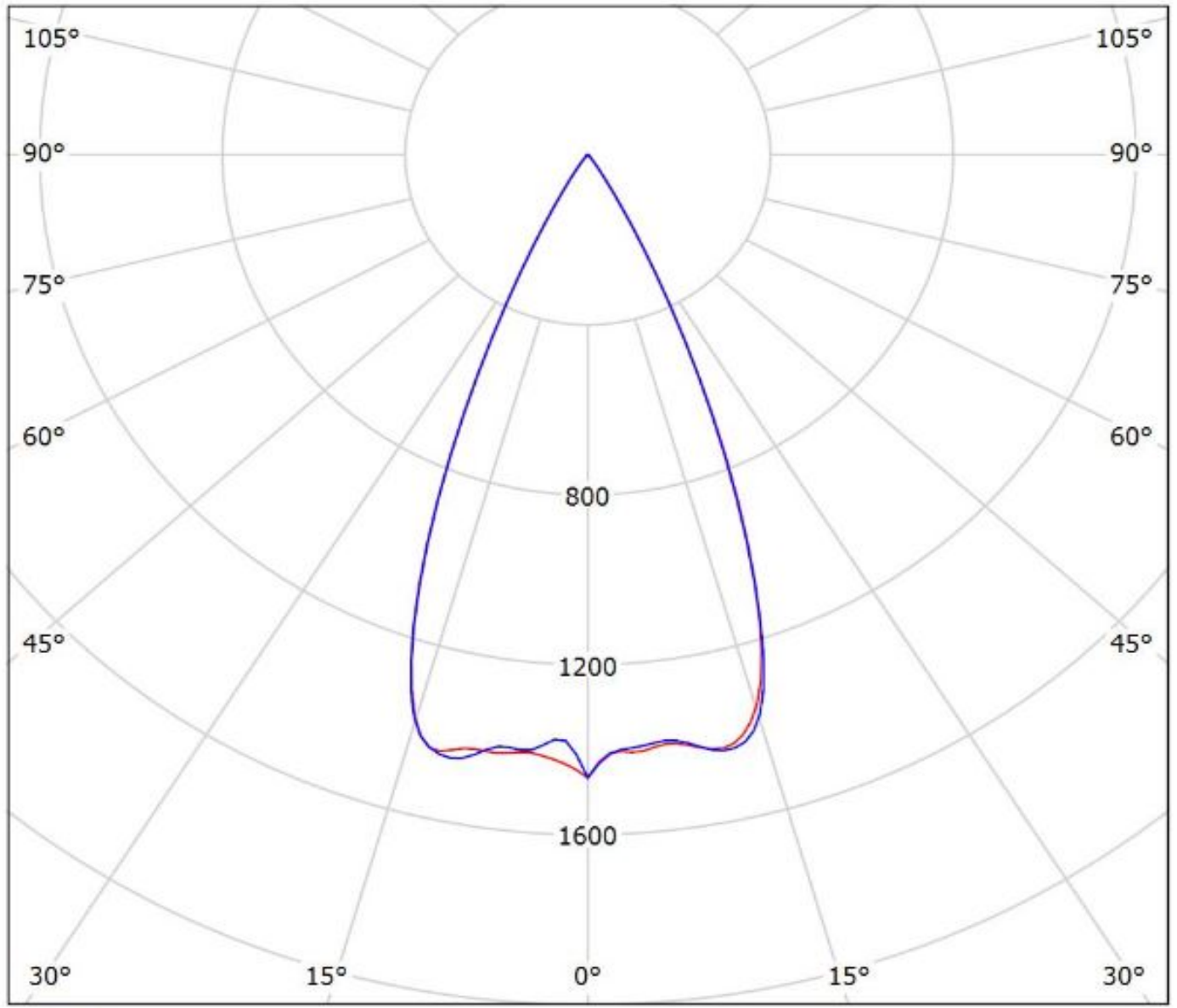
cd/klm

— C0 - C180

— C90 - C270

$\eta = 81\%$

Luminaire: Ledil Oy CN14091\_LENA-W-DL+\_B+W\_433\_TypL1\_BRIDGELUX\_V13\_Gen7\_SIMULATED  
Lamps: 1 x BRIDGELUX V13 Gen7

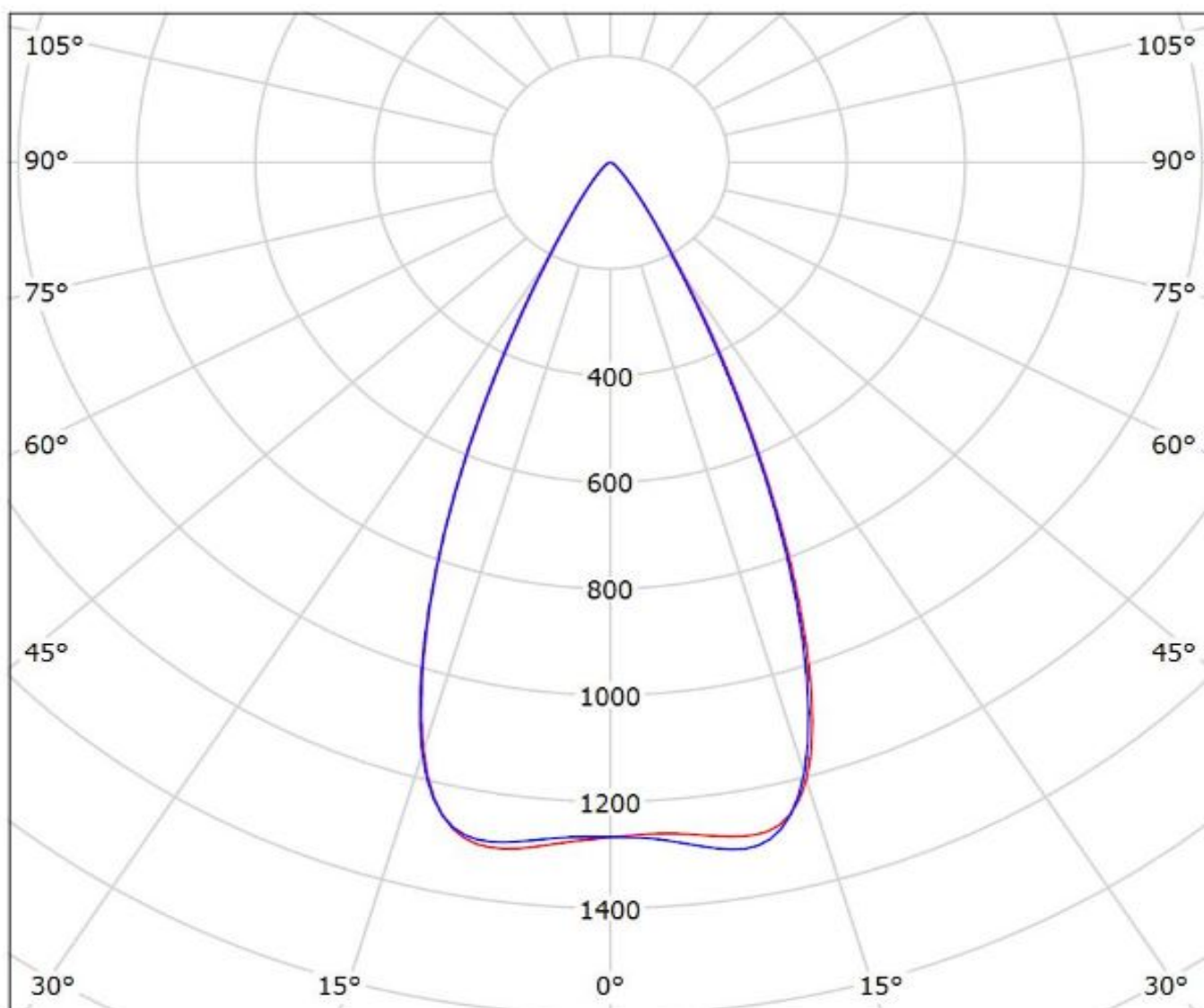


cd/klm  
— C0 - C180 — C90 - C270

$\eta = 82\%$

Luminaire: Ledil CN14091\_LENA-W-DL\_(CLU034)\_(433\_Typ\_L1) Citizen\_CLU034\_(CLU034-1205B8-303M1A2)\_1159.01lm@250mA\_P=8.5W\_I=0.25A

Lamps: 1 x Citizen\_CLU034\_(CLU034-1205B8-303M1A2)\_1159.01lm@250mA\_P=8.5W\_I=0.25A



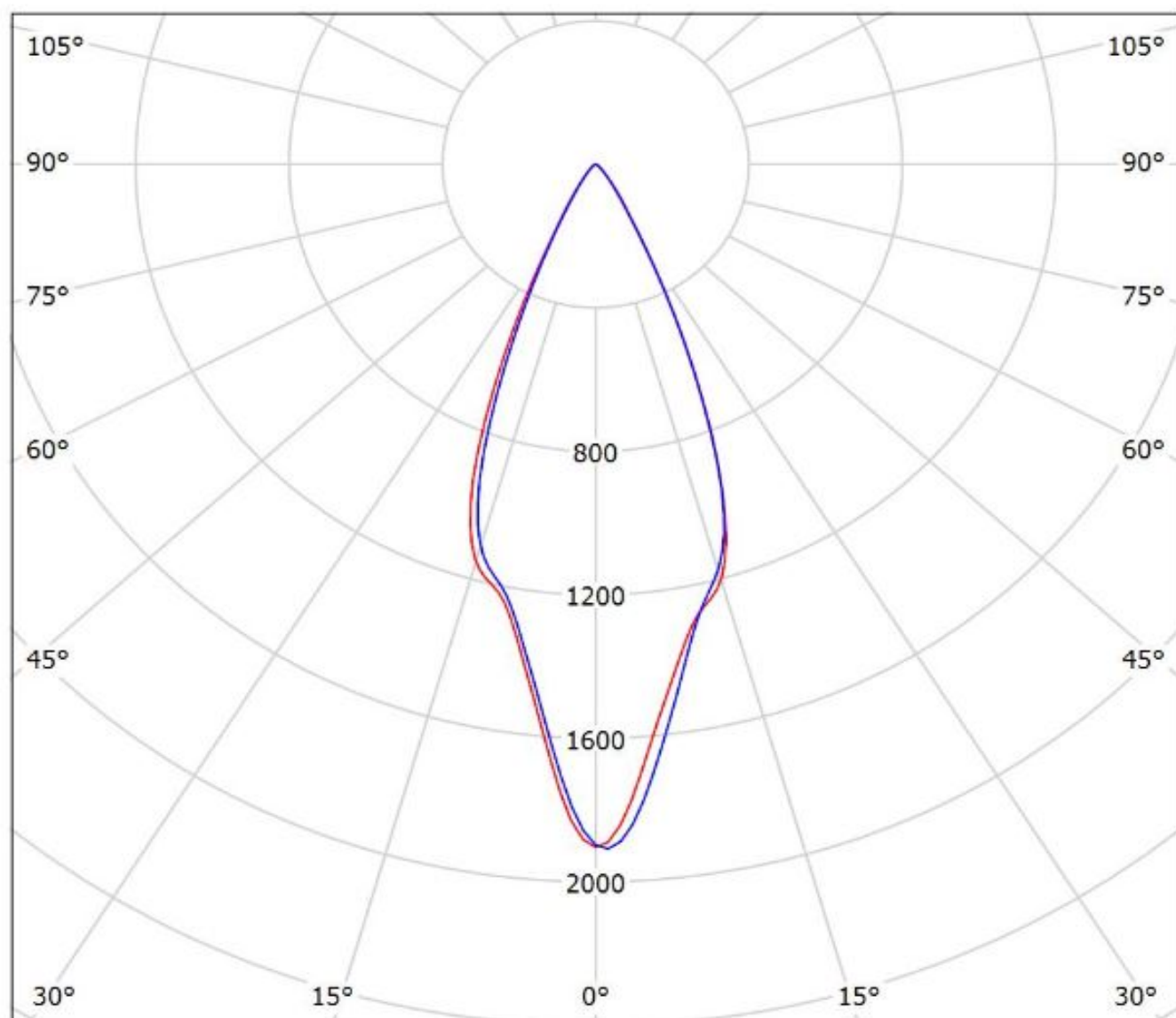
cd/klm

— C0 - C180 — C90 - C270

$\eta = 81\%$

Luminaire: Ledil CN14091\_LENA-W-DL\_(CLU700)

Lamps: 1 x Citizen\_CLU700\_(CLU700-1002B8-273M2G1)\_(434\_Typ\_L1)\_(C13868\_LENA-STD-BASE-VERO13-18)\_385.255lm@100mA\_P=2.82W\_I=0.10A

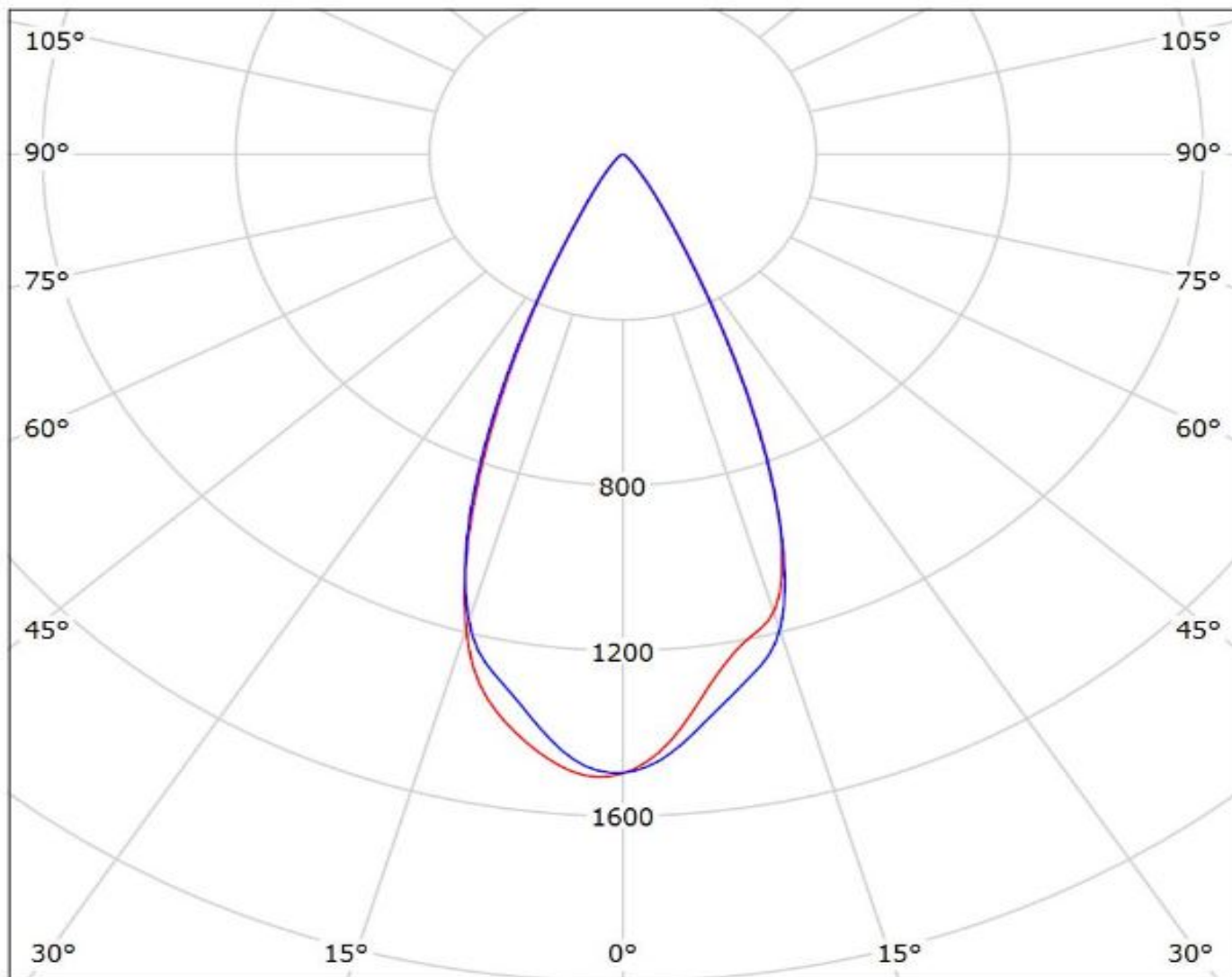


cd/klm

— C0 - C180    — C90 - C270

$\eta = 81\%$

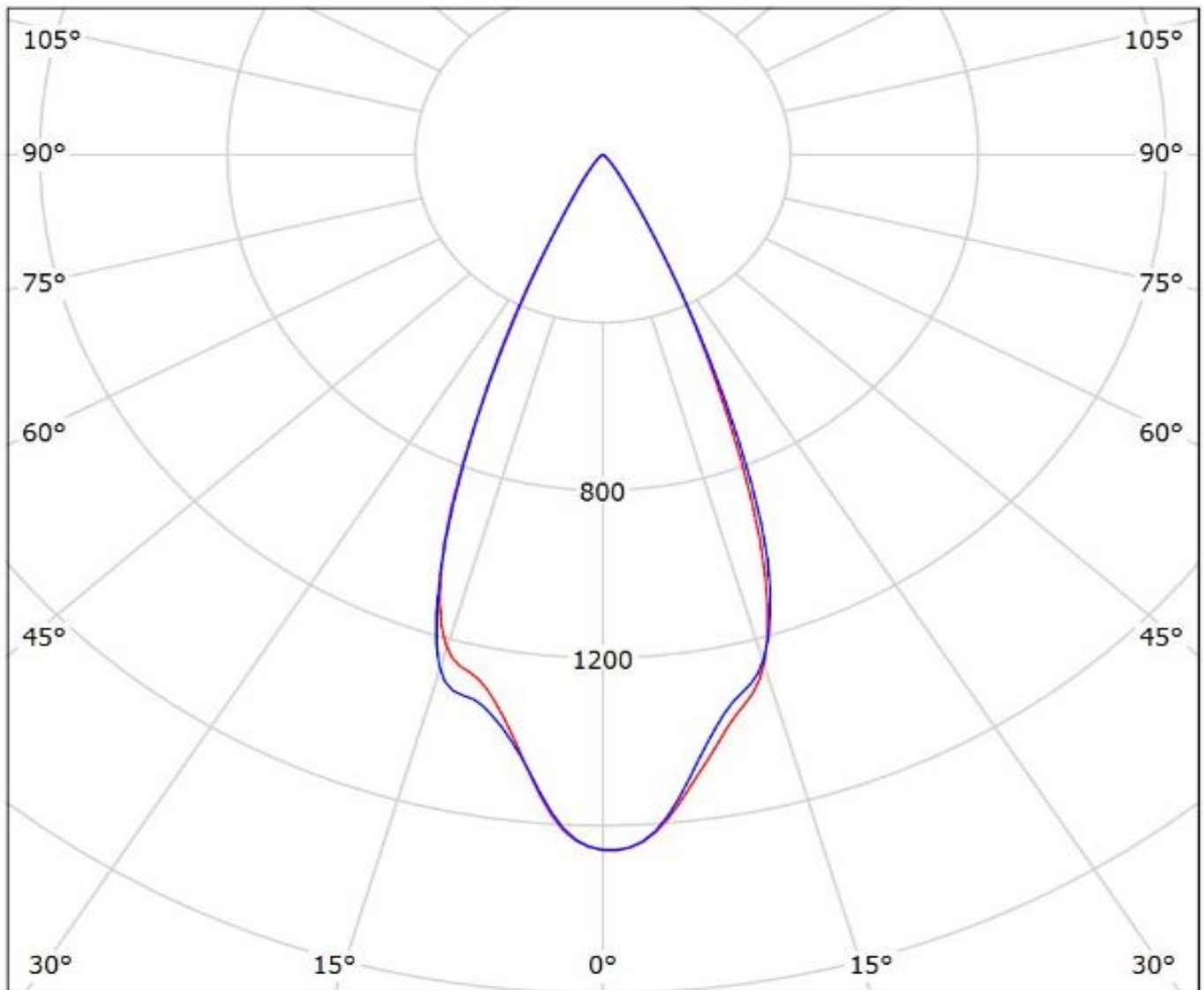
Luminaire: Ledil CN14091\_LENA-W-DL\_(CLU024)\_ (434\_Typ\_L1) Citizen\_CLU024\_(CLU024-1204B8-303M1AZ)\_ (434\_Typ\_L1)\_ (C13868\_LENA-STD-BASE-VERO13-18)\_1048.43lm@250mA\_P=8.6W\_I=0.25A  
Lamps: 1 x Citizen\_CLU024\_(CLU024-1204B8-303M1AZ)\_ (434\_Typ\_L1)\_ (C13868\_LENA-STD-BASE-VERO13-18)\_1048.43lm@250mA\_P=8.6W\_I=0.25A



cd/klm  
— C0 - C180 — C90 - C270

$\eta = 81\%$

Luminaire: Ledil CN14091\_LENA-W-DL\_(CXA1520) Cree\_CXA1520\_(CXA1520-30F-N4-00H-00001)\_(C13868\_LENA-STD-BASE-VERO13-18)\_(441\_Typ\_L1)\_1020.39lm@250mA\_P=8.8025W\_I=0.25A  
Lamps: 1 x Cree\_CXA1520\_(CXA1520-30F-N4-00H-00001)\_(C13868\_LENA-STD-BASE-VERO13-18)\_(441\_Typ\_L1)\_1020.39lm@250mA\_P=8.8025W\_I=0.25A



cd/klm

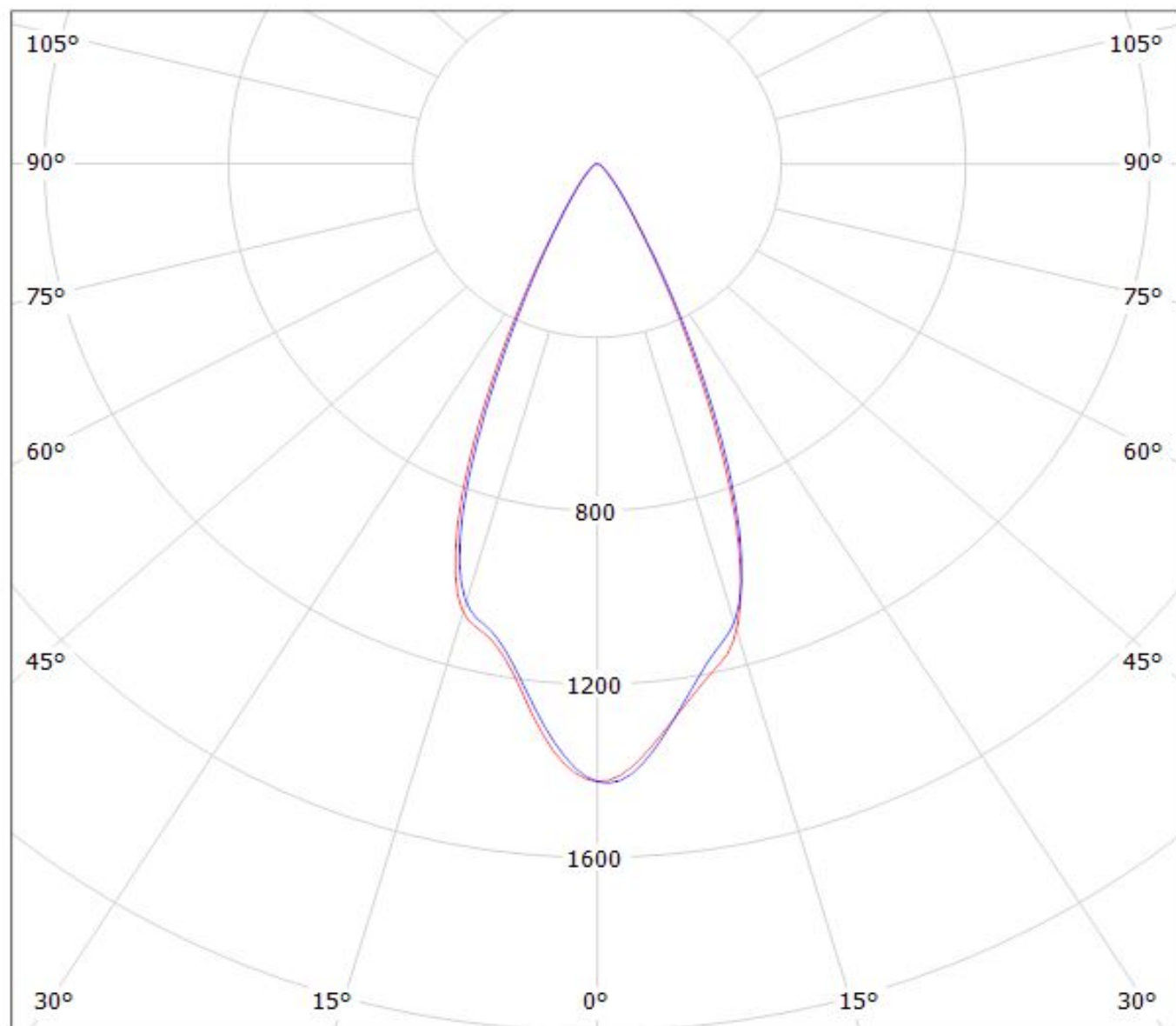
— C0 - C180 — C90 - C270

$\eta = 81\%$



Luminaire: LEDiL Oy CN14091\_LENA-W-DL\_(NFCxL036B)

Lamps: 1 x NICHIA\_NFCxL036B\_(sm403J1300R8000)\_540.584lm@100mA\_CCT=4000K\_P=3.3W\_I=0.1A



cd/klm

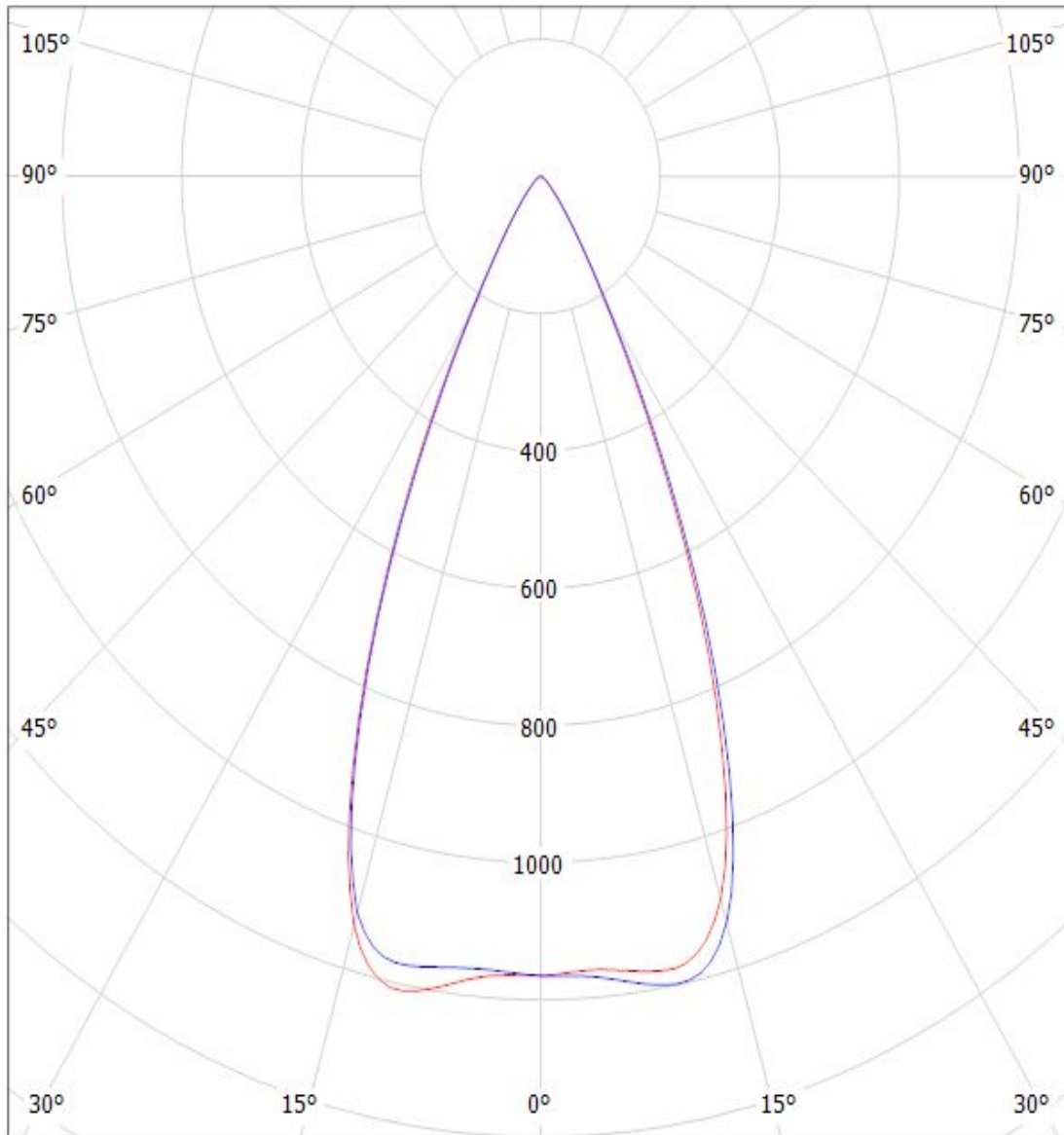
— C0 - C180

— C90 - C270

$\eta = 79\%$

Luminaire: LEDiL Oy CN14091\_LENA-W-DL\_(NFDxJ130B)\_(463\_Typ\_L2)

Lamps: 1 x Nichia\_NFDxJ130B\_(C13868\_LENA-STD-BASE-VERO13-18)\_(463 Typ L2)\_1441.32lm@250mA\_P=8.88913W\_I=0.2498A



cd/klm

$\eta = 79\%$

— C0 - C180

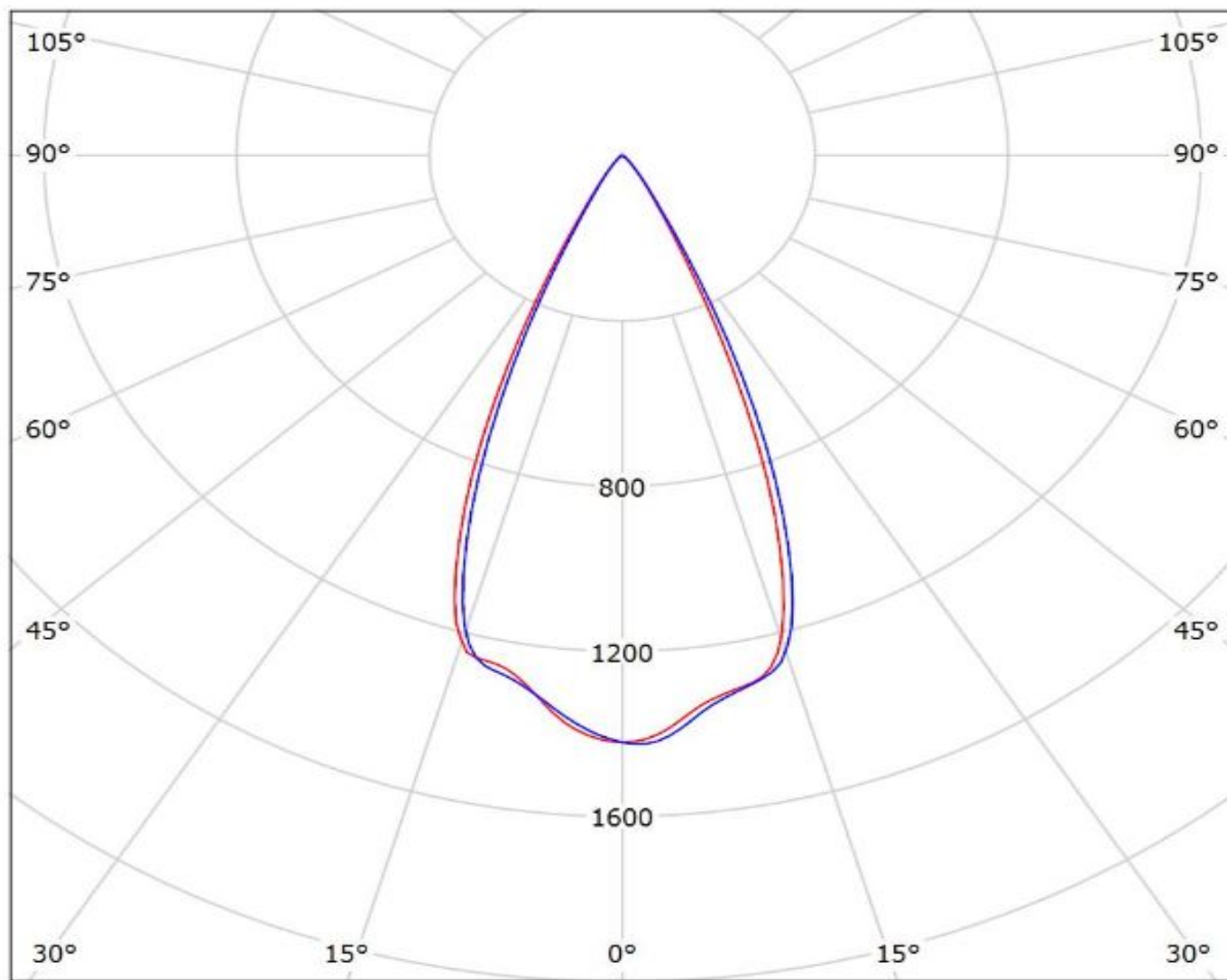
— C90 - C270

# LEDiL Oy CN14091\_LENA-W-DL\_(NFCxL060B) / LDC (Polar)

Luminaire: LEDiL Oy CN14091\_LENA-W-DL\_(NFCxL060B)

Lamps: 1 x Nichia\_NFCxL060B\_(SM403G2450R8000)\_(438\_Typ\_L1)

\_1276.73lm@250mA\_P=8.45587W\_I=0.2499A



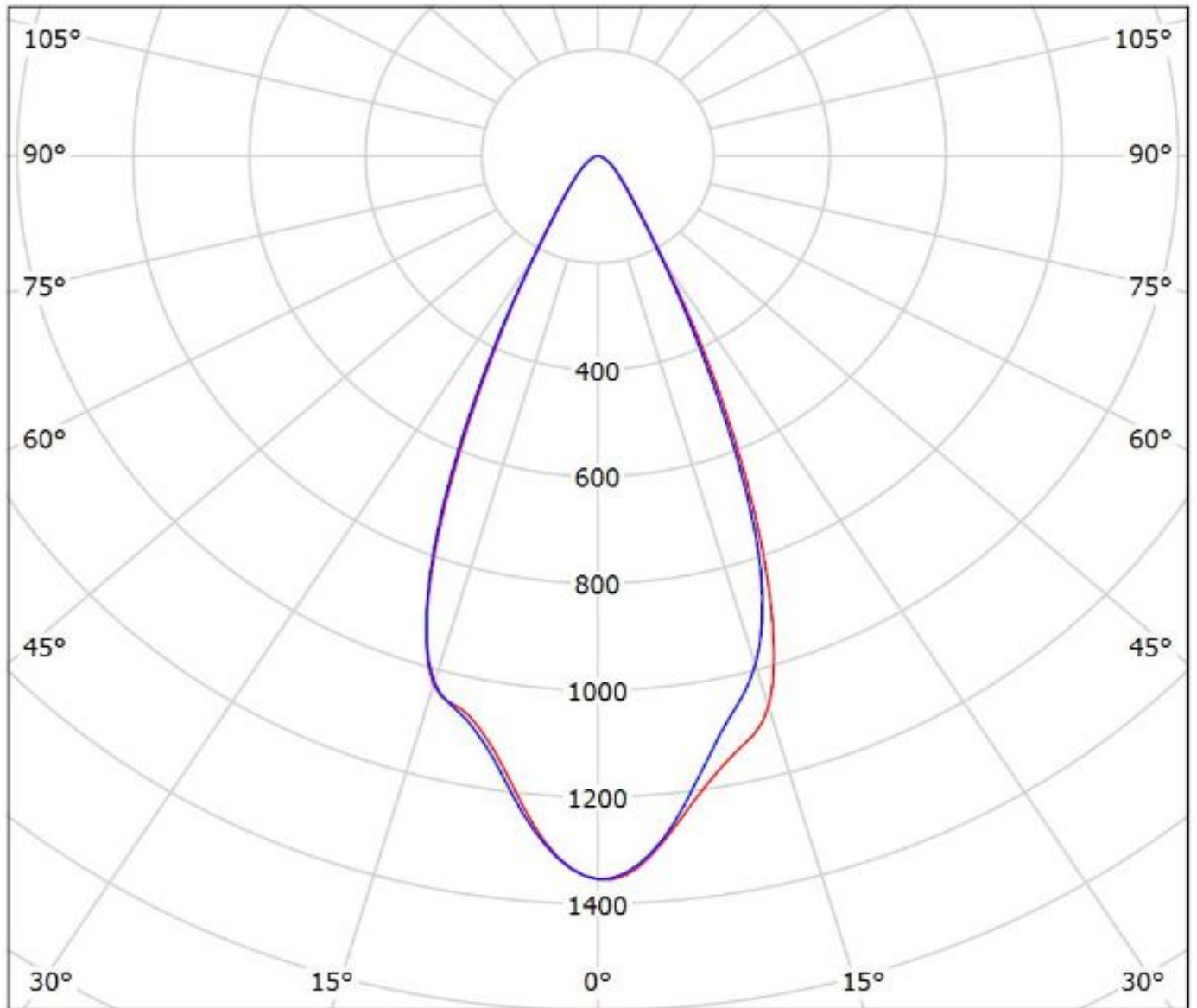
cd/klm

— C0 - C180 — C90 - C270

$\eta = 79\%$

Luminaire: Ledil CN14091\_LENA-W-DL\_(Soleriq\_P9)

Lamps: 1 x Osram\_Soleriq\_P9\_(GW\_MAFJB1.EM)\_975.439lm@250mA\_CCT=4299K\_P=6.9W\_I=0.25A



cd/klm

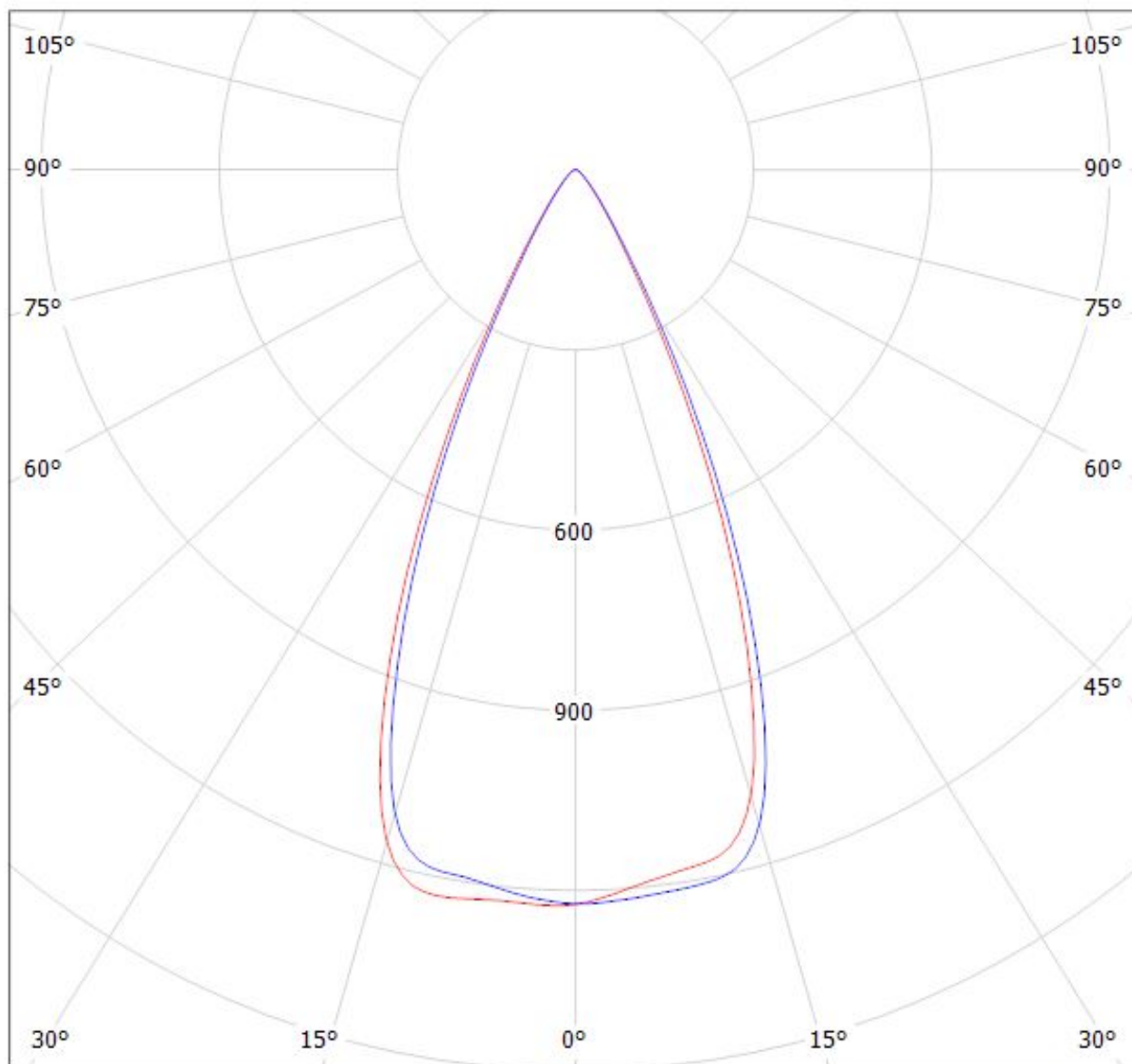
— C0 - C180

— C90 - C270

$\eta = 80\%$

Luminaire: LEDiL Oy CN14091\_LENA-W-DL\_(Soleriq\_P13)

Lamps: 1 x Osram Soleriq P13 (GW MAGMB1.EM)\_919.464lm@250mA\_CCT=3500K\_P=8.80195W\_I=0.25A



cd/klm

— C0 - C180

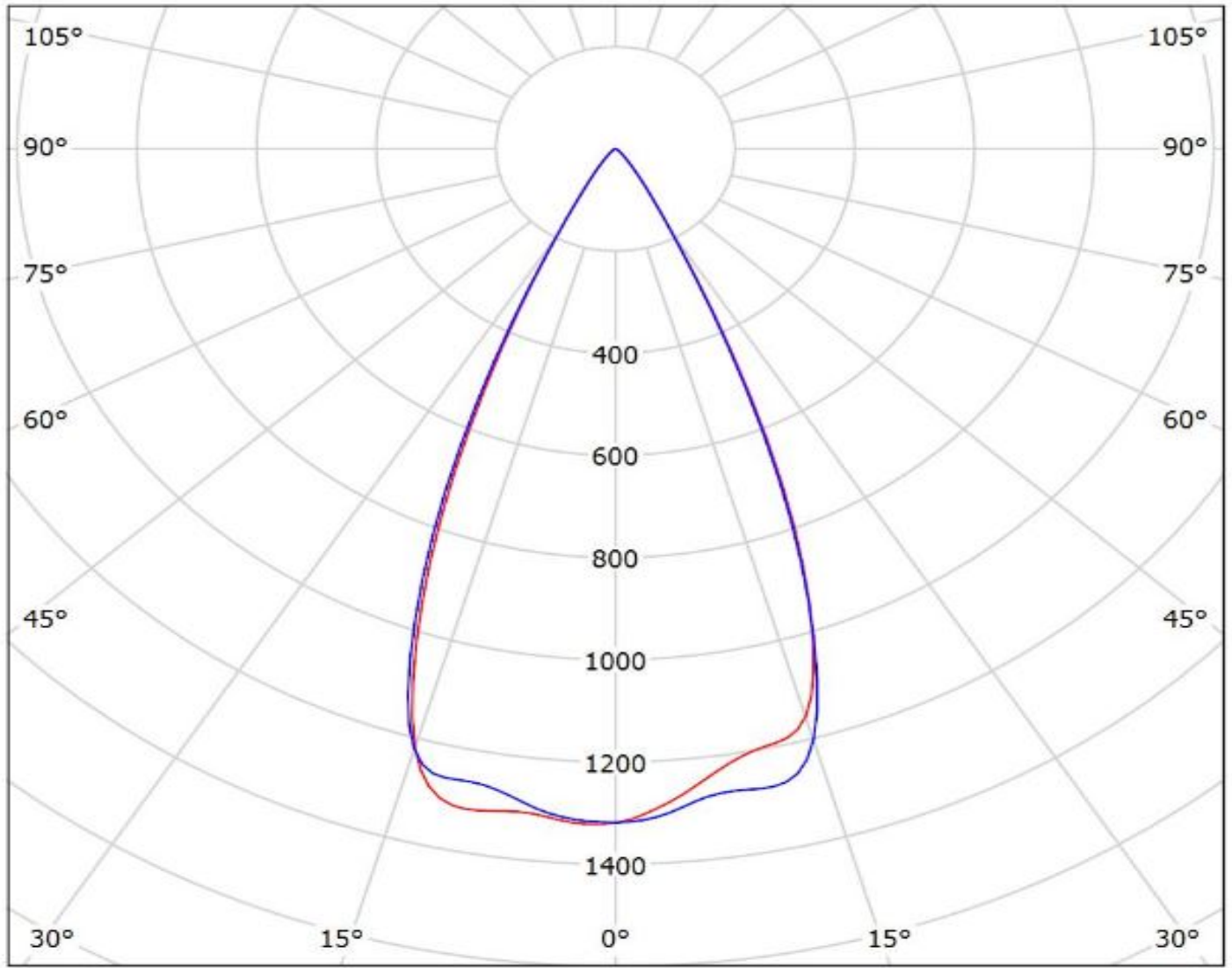
— C90 - C270

$\eta = 79\%$

# Ledil CN14091\_LENA-W-DL\_(Soleriq\_S13) / LDC (Polar)

Luminaire: Ledil CN14091\_LENA-W-DL\_(Soleriq\_S13)

Lamps: 1 x Osram\_Soleriq\_S13\_(GW\_KAGHB1.EM)\_921.228lm@250mA\_P=7.44679W\_I=250mA



cd/klm

— C0 - C180

— C90 - C270

$\eta = 78\%$

**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.

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.