

**Product number F13325_ANGELINA-S**

Family	ANGELINA	FWHM	22 degrees
Type	Reflector	Efficiency	94 %
LED	LUXEON K16	cd/Im	2.320
Color	Metal	Gerber File	Available
Diameter	82 mm		
Height	31 mm		
Style	Round		
Optic Material	PC		
Holder Material	-		
Fastening	-		
Status	Production ready		

Product number F13659_ANGELINA-S-B

Family	ANGELINA	FWHM	24 degrees
Type	Reflector	Efficiency	94 %
LED	LUXEON K16	cd/Im	1.800
Color	Metal	Gerber File	Available
Diameter	82 mm		
Height	31 mm		
Style	Round		
Optic Material	PC		
Holder Material	-		
Fastening	-		
Status	Production ready		

Product number FC13973_ANGELINA-RZ-S

Family	ANGELINA	FWHM	26 degrees
Type	RefPack	Efficiency	89 %
LED	LUXEON K16	cd/Im	1.800
Color	Metal	Gerber File	Available
Diameter	82 mm		
Height	31 mm		
Style	Round		
Optic Material	PC		
Holder Material	-		
Fastening	Socket, screw		
Status	Production ready		

Product number FC13977_ANGELINA-RZ-S-B

Family	ANGELINA	FWHM	29 degrees
Type	RefPack	Efficiency	89 %
LED	LUXEON K16	cd/Im	1.500
Color	Metal	Gerber File	Available
Diameter	82 mm		
Height	31 mm		
Style	Round		
Optic Material	PC		
Holder Material	-		
Fastening	Socket, screw		
Status	Production ready		

For BJB connectors

**Product number F13401_ANGELINA-M**

Family	ANGELINA	FWHM	32 degrees
Type	Reflector	Efficiency	94 %
LED	LUXEON K16	cd/Im	1.500
Color	Metal	Gerber File	Available
Diameter	82 mm		
Height	31 mm		
Style	Round		
Optic Material	PC		
Holder Material	-		
Fastening	-		
Status	Production ready		

**Product number FC13975_ANGELINA-RZ-M**

Family	ANGELINA	FWHM	43 degrees
Type	RefPack	Efficiency	89 %
LED	LUXEON K16	cd/Im	1.100
Color	Metal	Gerber File	Available
Diameter	82 mm		
Height	31 mm		
Style	Round		
Optic Material	PC		
Holder Material	-		
Fastening	Socket, screw		
Status	Production ready		

**Product number F13660_ANGELINA-M-B**

Family	ANGELINA	FWHM	44 degrees
Type	Reflector	Efficiency	94 %
LED	LUXEON K16	cd/Im	1.100
Color	Metal	Gerber File	Available
Diameter	82 mm		
Height	31 mm		
Style	Round		
Optic Material	PC		
Holder Material	-		
Fastening	-		
Status	Production ready		

**Product number F13402_ANGELINA-W**

Family	ANGELINA	FWHM	48 degrees
Type	Reflector	Efficiency	94 %
LED	LUXEON K16	cd/Im	1.000
Color	Metal	Gerber File	Available
Diameter	82 mm		
Height	31 mm		
Style	Round		
Optic Material	PC		
Holder Material	-		
Fastening	-		
Status	Production ready		

**Product number FC13978_ANGELINA-RZ-M-B**

Family	ANGELINA	FWHM	50 degrees
Type	RefPack	Efficiency	89 %
LED	LUXEON K16	cd/Im	1.000
Color	Metal	Gerber File	Available
Diameter	82 mm	For BJB connectors	
Height	31 mm		
Style	Round		
Optic Material	PC		
Holder Material	-		
Fastening	Socket, screw		
Status	Production ready		

**Product number FC13976_ANGELINA-RZ-W**

Family	ANGELINA	FWHM	54 degrees
Type	RefPack	Efficiency	89 %
LED	LUXEON K16	cd/Im	0.900
Color	Metal	Gerber File	Available
Diameter	82 mm		
Height	31 mm		
Style	Round		
Optic Material	PC		
Holder Material	-		
Fastening	Socket, screw		
Status	Production ready		

**Product number F13661_ANGELINA-W-B**

Family	ANGELINA	FWHM	61 degrees
Type	Reflector	Efficiency	(simulated) 100 %
LED	LUXEON K16	cd/Im	0.870
Color	Metal	Gerber File	Available
Diameter	82 mm		
Height	31 mm		
Style	Round		
Optic Material	PC		
Holder Material	-		
Fastening	-		
Status	Production ready		

**Product number FC13979_ANGELINA-RZ-W-B**

Family	ANGELINA	FWHM	65 degrees
Type	RefPack	Efficiency	89 %
LED	LUXEON K16	cd/Im	0.800
Color	Metal	Gerber File	Available
Diameter	82 mm	For BJB connectors	
Height	31 mm		
Style	Round		
Optic Material	PC		
Holder Material	-		
Fastening	Socket, screw		
Status	Production ready		

**Product number F13838_ANGELINA-XW**

Family	ANGELINA	FWHM	90 degrees
Type	Reflector	Efficiency	94 %
LED	LUXEON K16	cd/Im	0.530
Color	White	Gerber File	Available
Diameter	82 mm		
Height	31 mm		
Style	Round		
Optic Material	HRPC		
Holder Material	-		
Fastening	-		
Status	Production ready		

Product number F13839_ANGELINA-XW-B

Family	ANGELINA	FWHM	91 degrees
Type	Reflector	Efficiency	94 %
LED	LUXEON K16	cd/Im	0.540
Color	White	Gerber File	Available
Diameter	82 mm		
Height	31 mm		
Style	Round		
Optic Material	HRPC		
Holder Material	-		
Fastening	-		
Status	Production ready		

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.



PRODUCT DATASHEET ANGELINA series

last update 21/7/2015

GENERAL INFORMATION

- Product series especially designed & optimized for LUXEON K16 series of LEDs.
- Special care taken to make light distribution as uniform as possible.
- Lens material optical grade PC with high UV and temperature resistance (120 degrees of Celcius / 248 degrees of Fahrenheit). Allows use of high current and temperature conditions.

Please find more information about used materials from below:

http://ledil.fi/sites/default/files/Documents/Technical/Material/PC%20Makrolon%202400_2407_2456_2458-UL.pdf

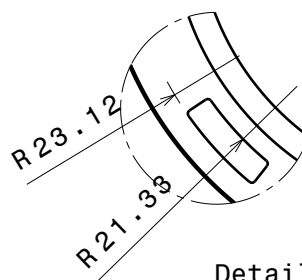
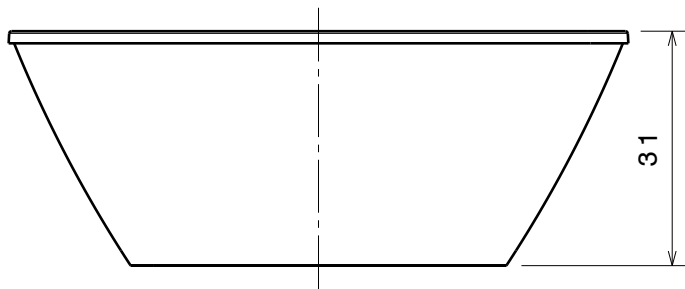
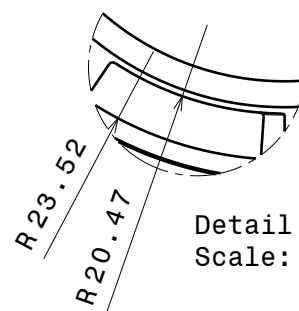
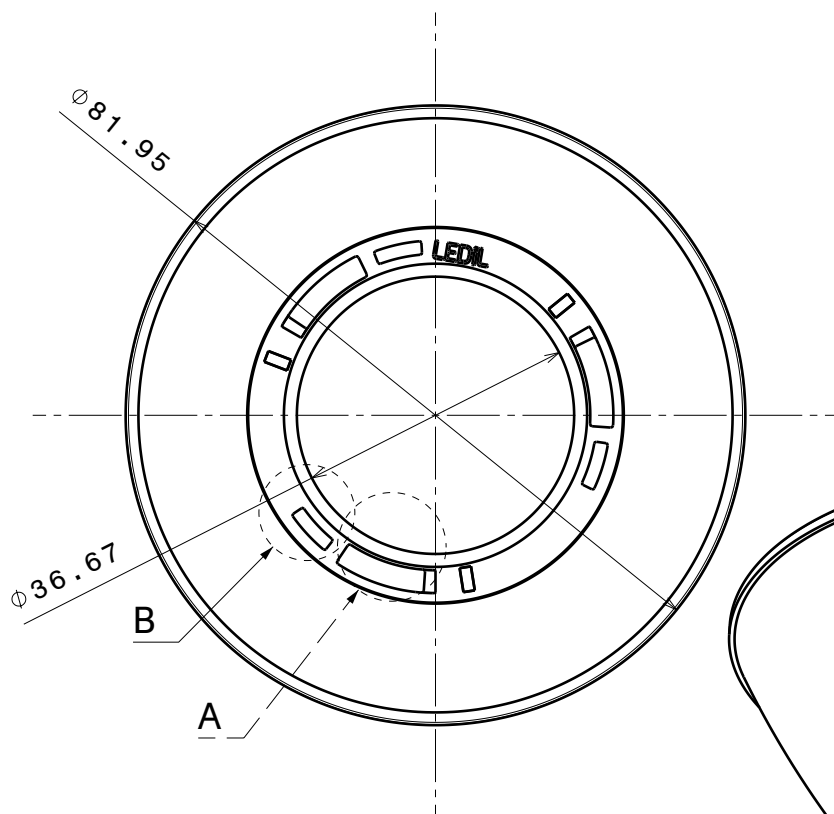
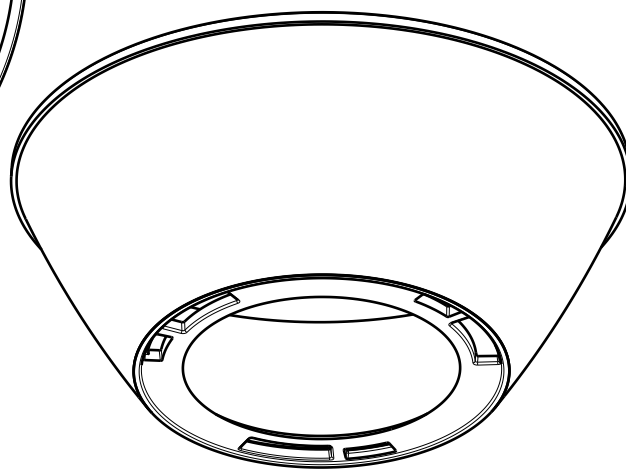
- Reflector is made of aluminium coated PC (120 degrees of Celcius / 248 degrees of Fahrenheit) with protective lacquer (short term 100 degrees of Celcius / 212 degrees of Fahrenheit).

D

C

B

A

Detail B
Scale: 2:1Detail A
Scale: 2:1

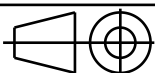
INDEX	PART NO	DESCRIPTION	MATERIAL	COLOUR
1		ANGELINA	PC	metal

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

ANGELINA series Reflector

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agreement with LEDiL Oy."

SIZE PART NUMBER

A4

-

SCALE 1:1 WEIGHT

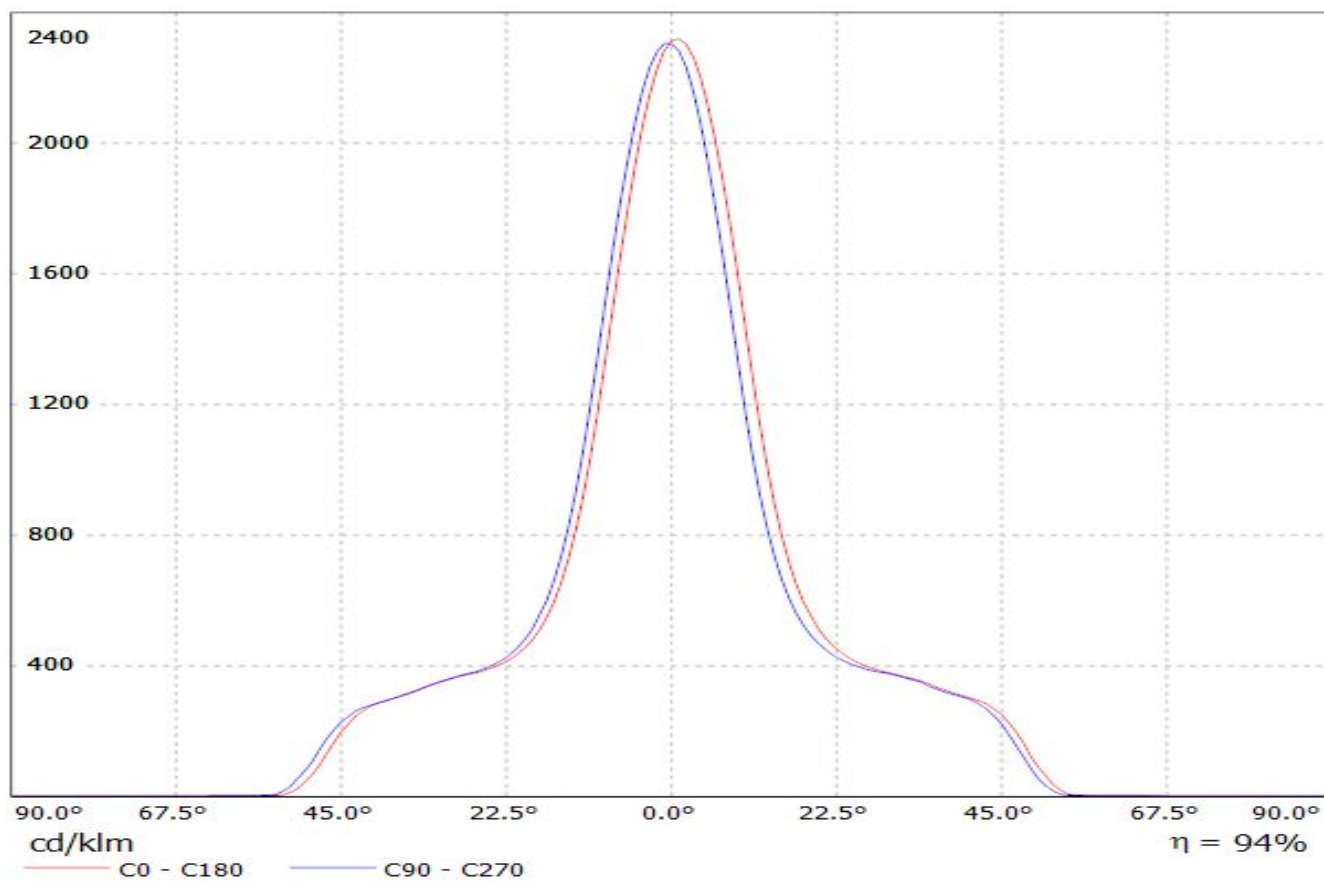
-

SHEET 1/1

D

A

Luminaire: LEDiL Oy C13325_ANGELINA-S_(Luxeon_K16) Eff.94.2%
Lamps: 1 x LUXEON_K16 (1204.33lm@250mA)

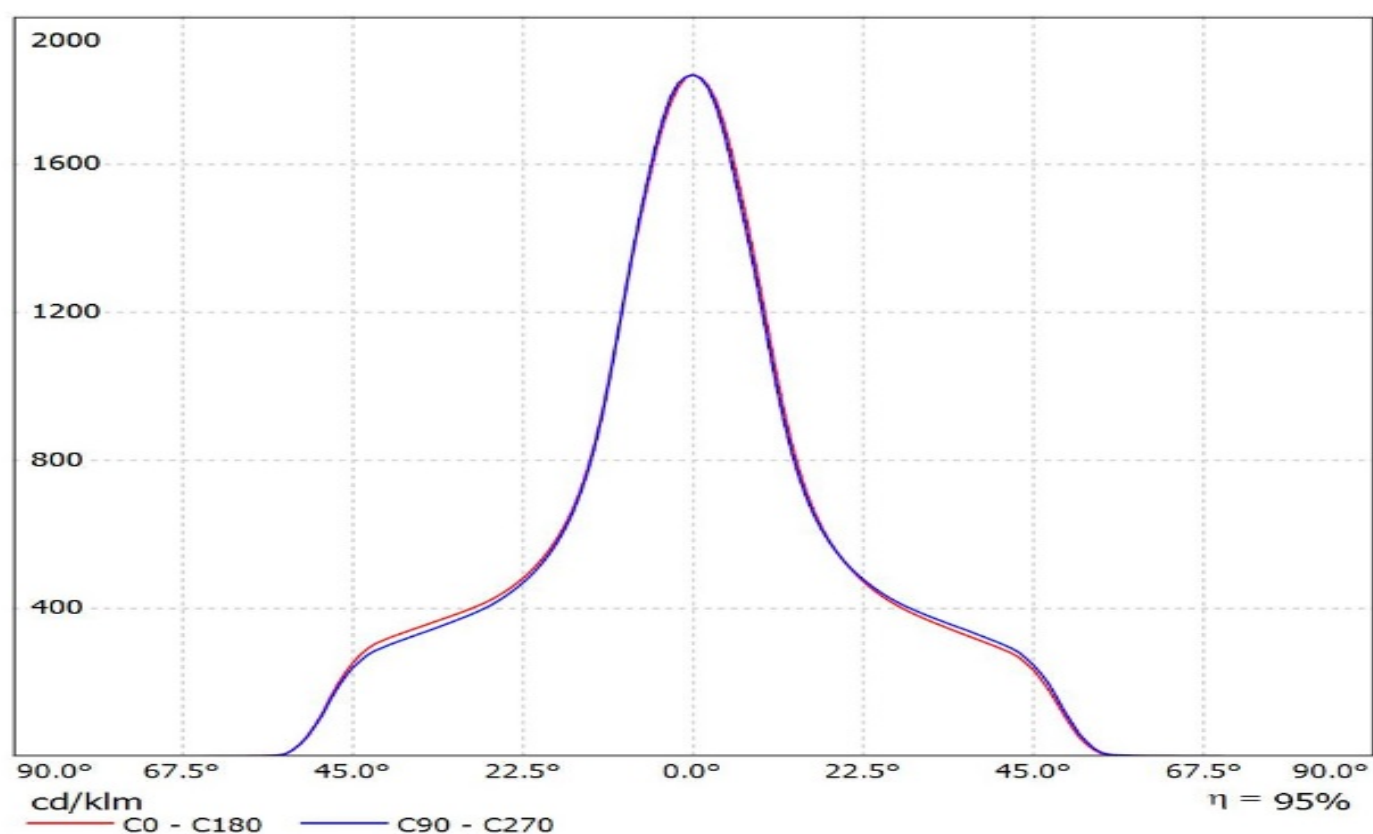


Ledil F13659_ANGELINA-S-B_(Luxeon_K16)_(47_319_2070) / LDC (Linear)

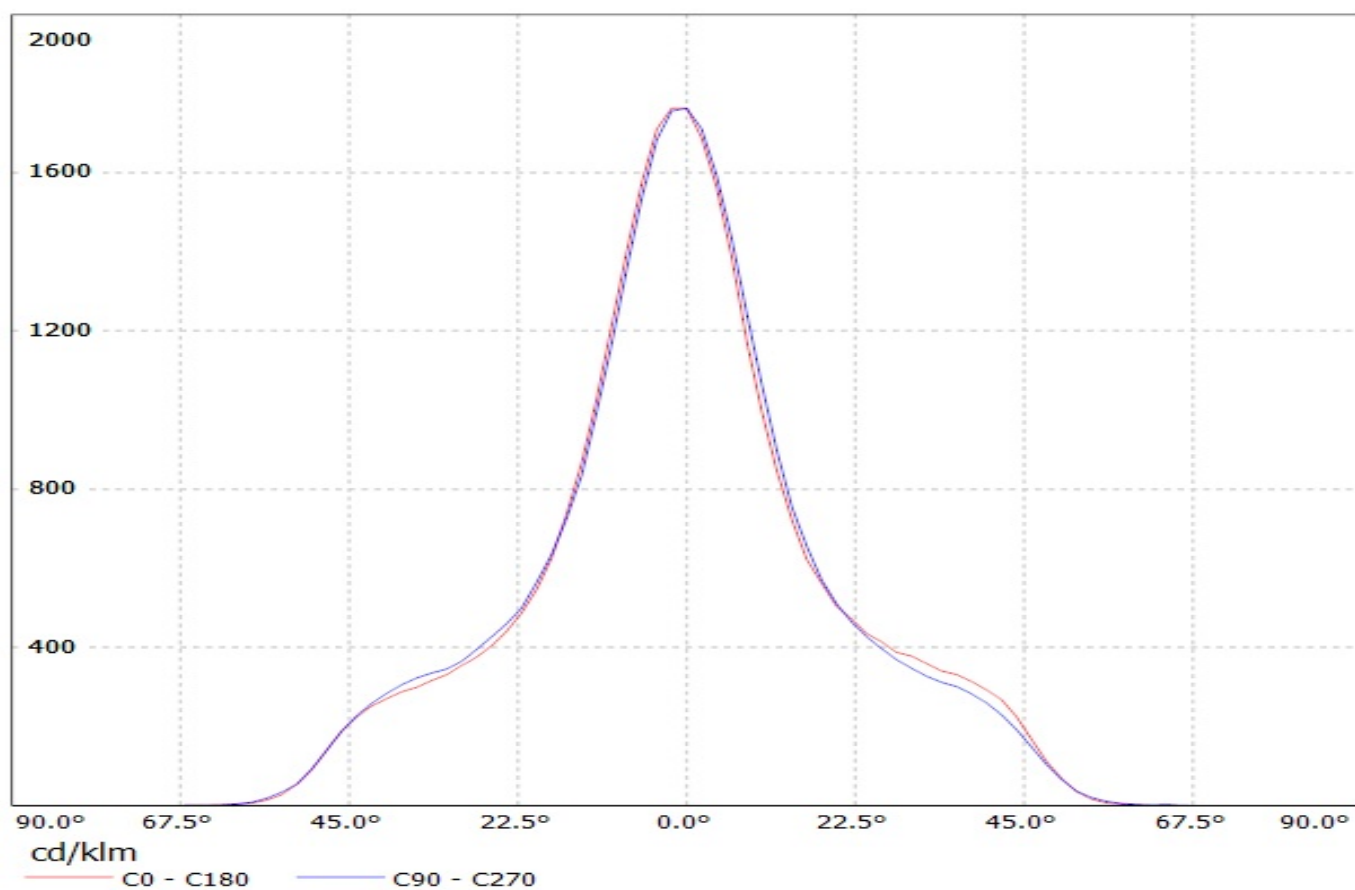
Luminaire: Ledil F13659_ANGELINA-S-B_(Luxeon_K16)_(47_319_2070)

Lamps: 1 x Philips_Lumileds_Luxeon_K16_(BJB.47.319.2070)

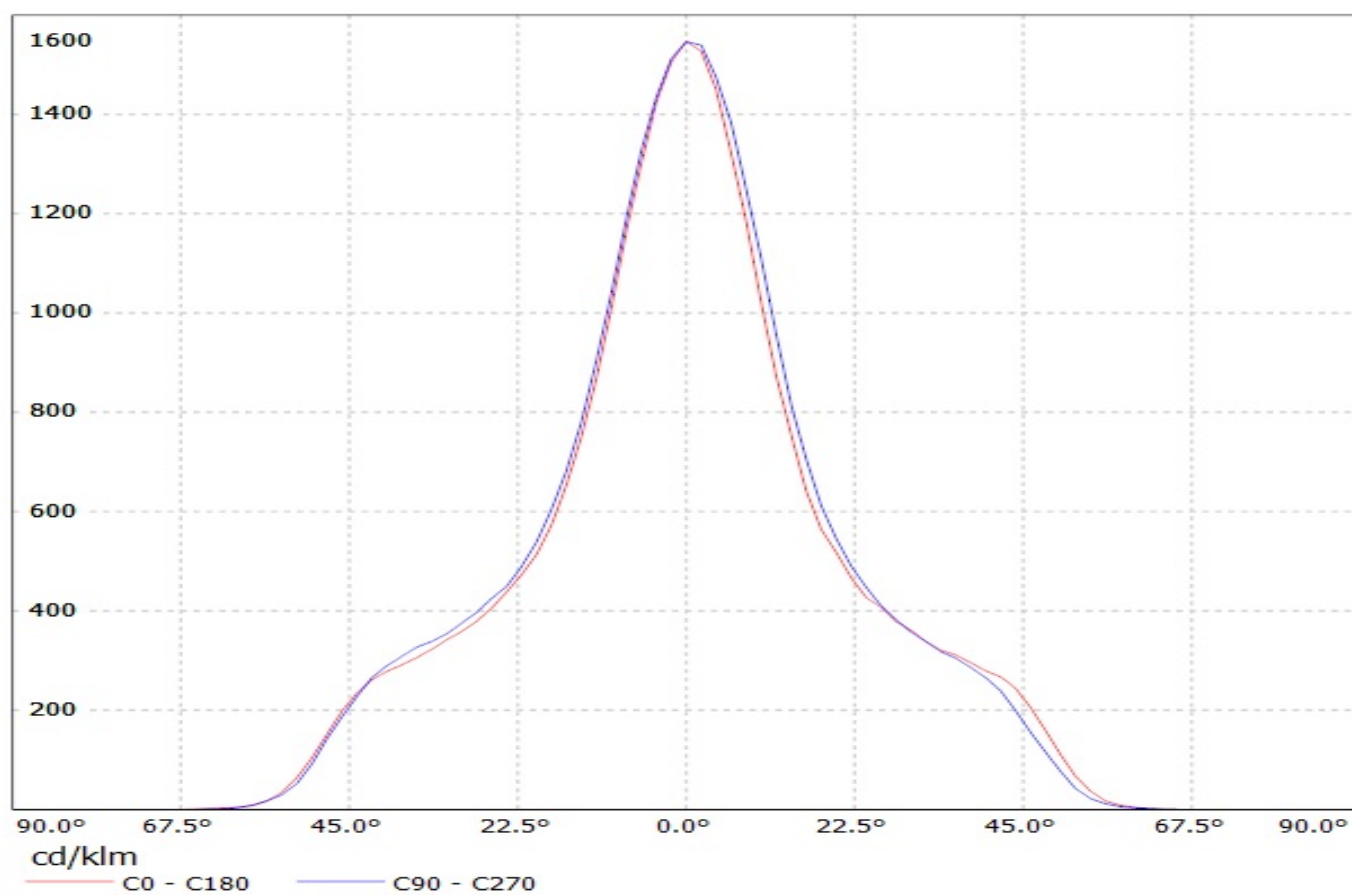
_1276.25lm@250mA_P=10.95525W_I=0.250A



Luminaire: LEDil Oy FC13973_ANGELINA-RZ-S_(Luxeon_K16) Efficiency=89%
Lamps: 1 x Luxeon K16 (LXK8-PW40-0016) 1200lm @ 250mA CCT=4000K P=10.9W I=250mA



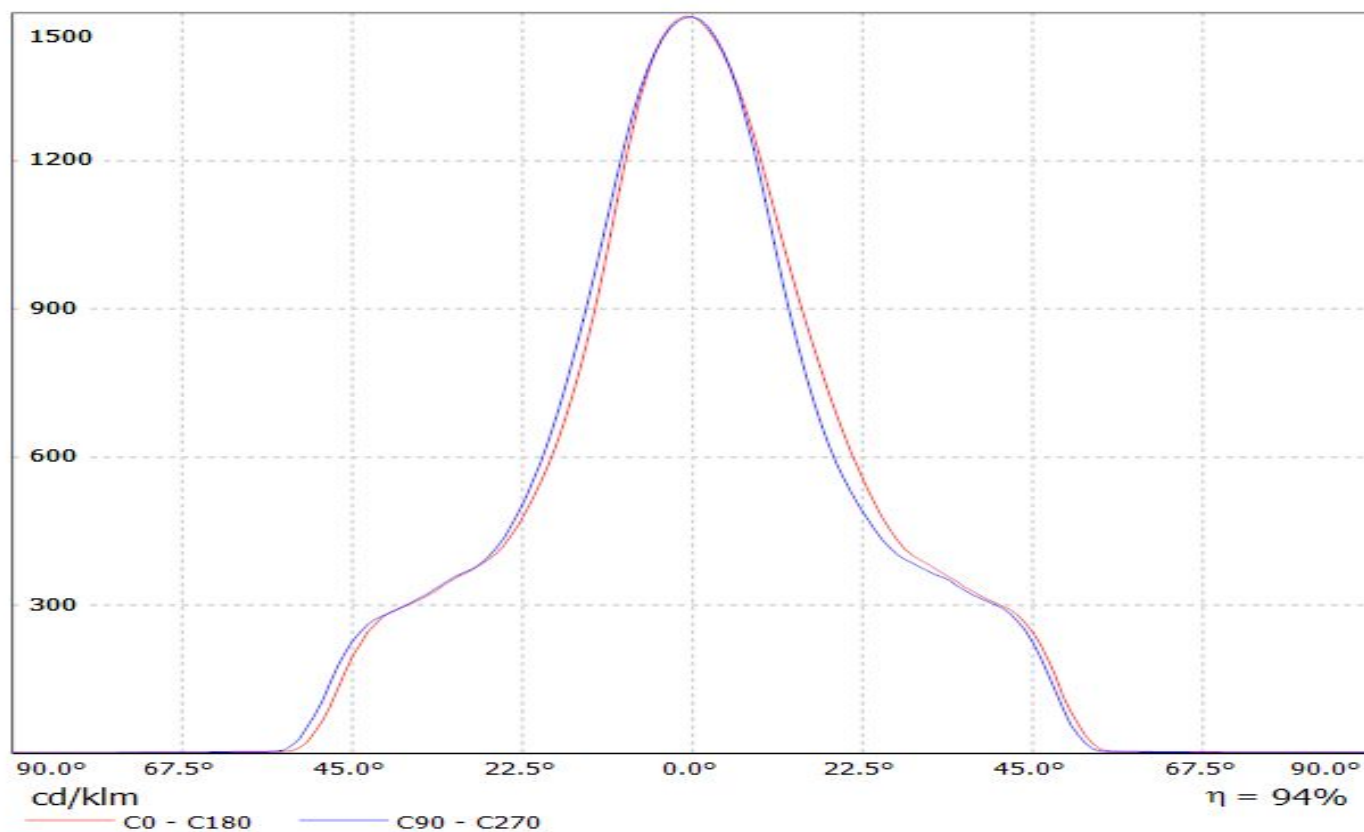
Luminaire: LEDil Oy FC13977_ANGELINA-RZ-S-B_(Luxeon_K16) Efficiency=89%
Lamps: 1 x Luxeon K16 (LXK8-PW40-0016) 1200lm @ 250mA CCT=4000K P=10.9W I=250mA



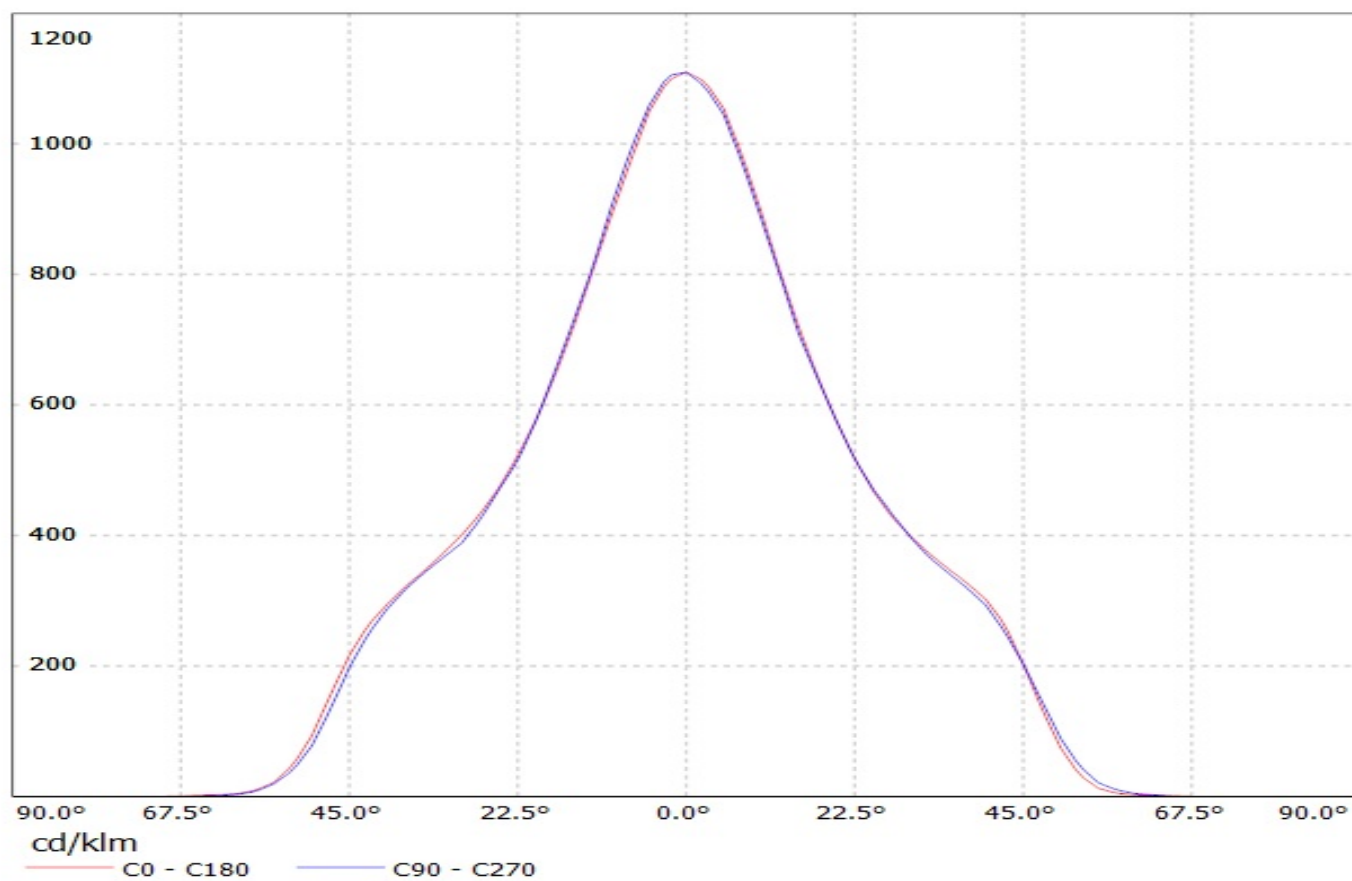
LEDiL Oy C13401_ANGELINA-M_(LUXEON_K16) Eff.93.6% / LDC (Linear)

Luminaire: LEDiL Oy C13401_ANGELINA-M_(LUXEON_K16) Eff.93.6%

Lamps: 1 x LUXEON_K16 (1204.33lm@250mA)



Luminaire: LEDil Oy FC13975_ANGELINA-RZ-M_(Luxeon_K16) Efficiency=89%
Lamps: 1 x Luxeon K16 (LXK8-PW40-0016) 1200lm @ 250mA CCT=4000K P=10.9W I=250mA

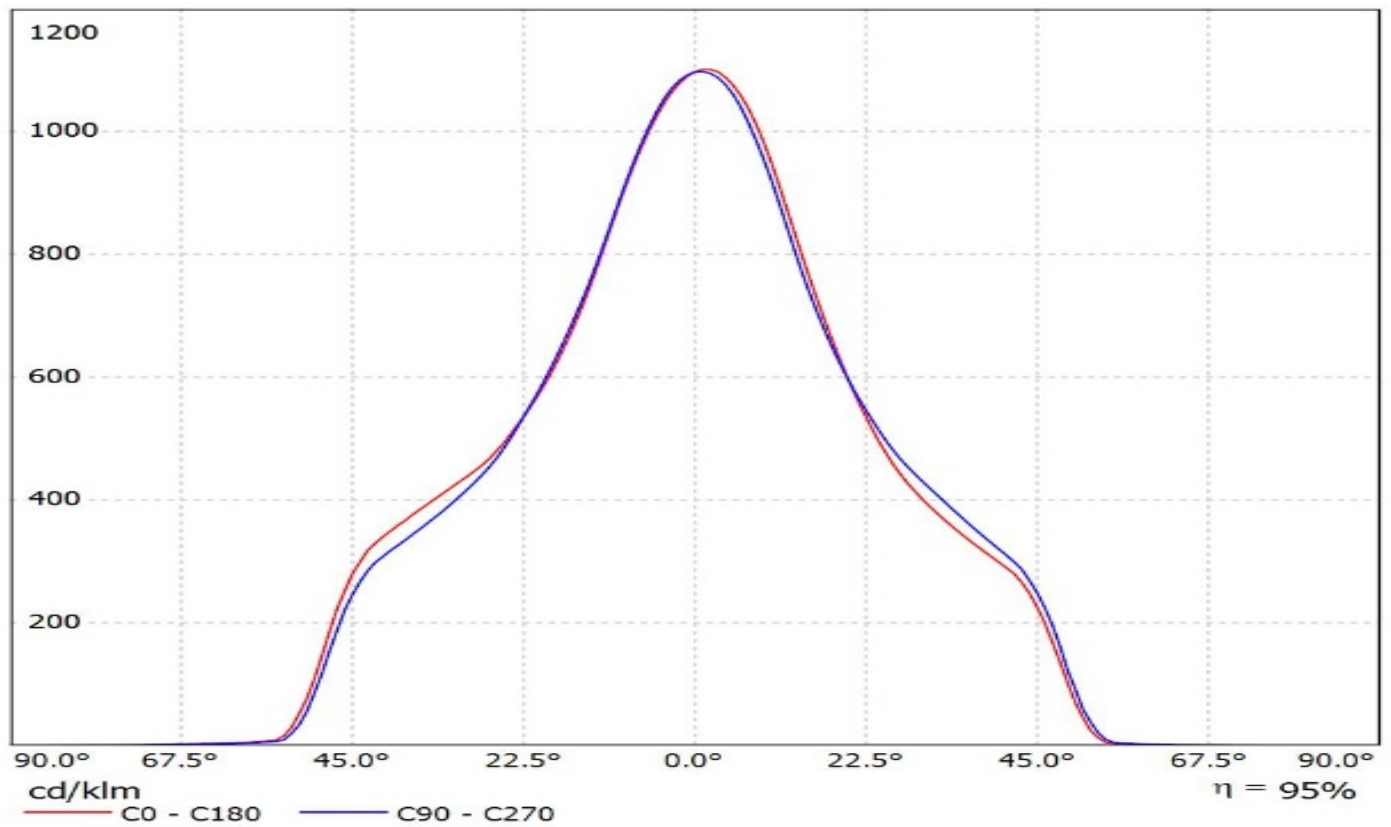


Ledil F13660_ANGELINA-M-B_(Luxeon_K16)_(47_319_2070) / LDC (Linear)

Luminaire: Ledil F13660_ANGELINA-M-B_(Luxeon_K16)_(47_319_2070)

Lamps: 1 x Philips_Lumileds_Luxeon_K16_(BJB.47.319.2070)

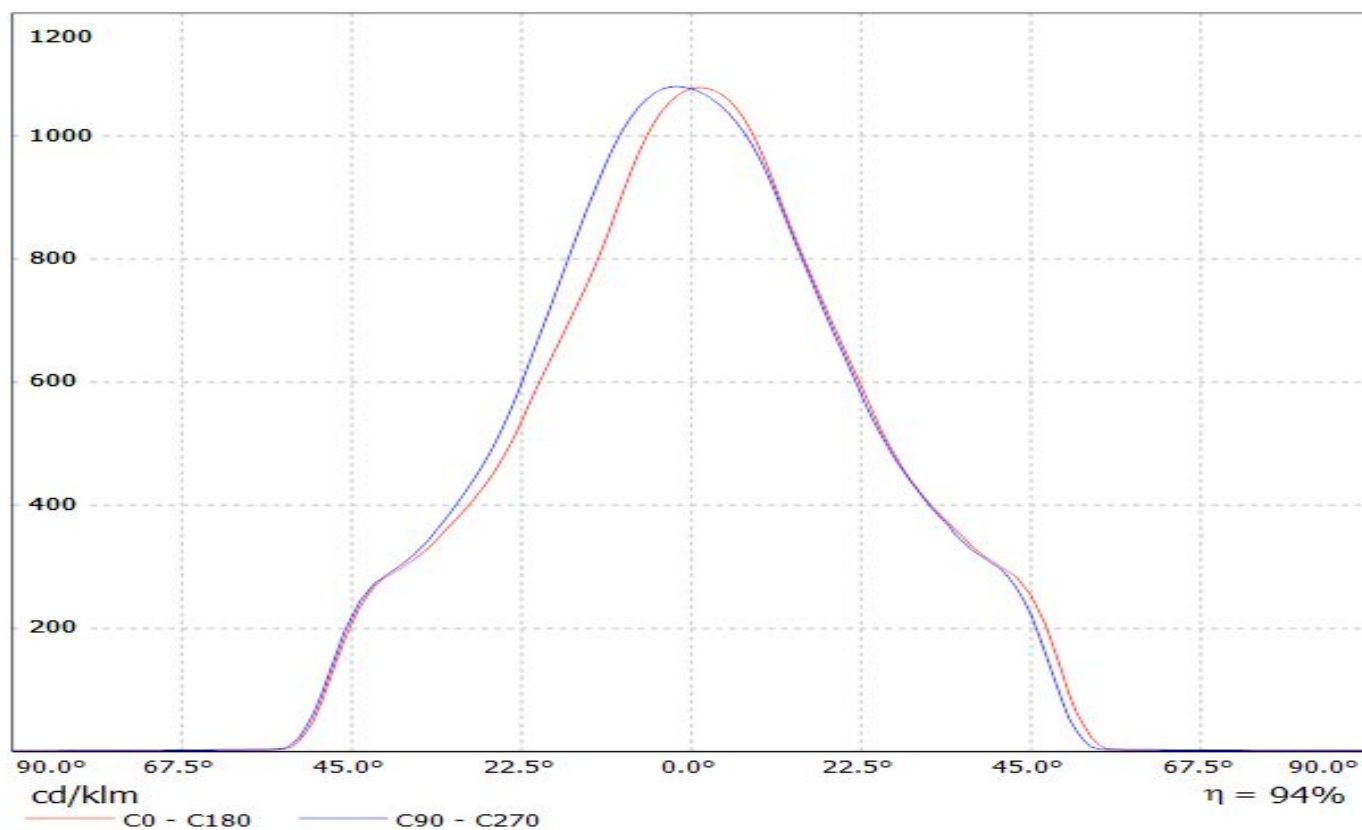
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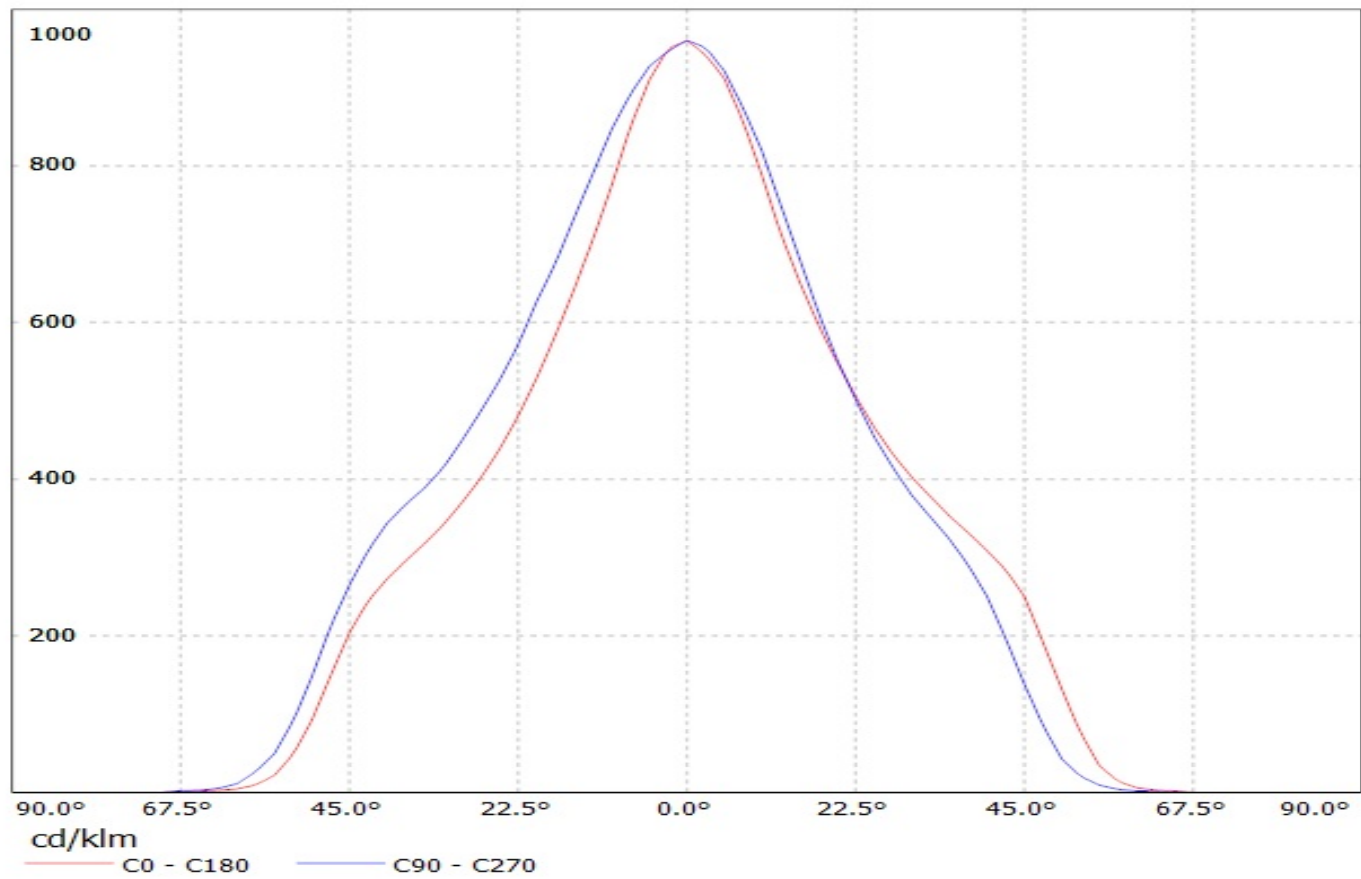
LEDiL Oy C13402_ANGELINA-W_(LUXEON_K16) Eff.93.7% / LDC (Linear)

Luminaire: LEDiL Oy C13402_ANGELINA-W_(LUXEON_K16) Eff.93.7%

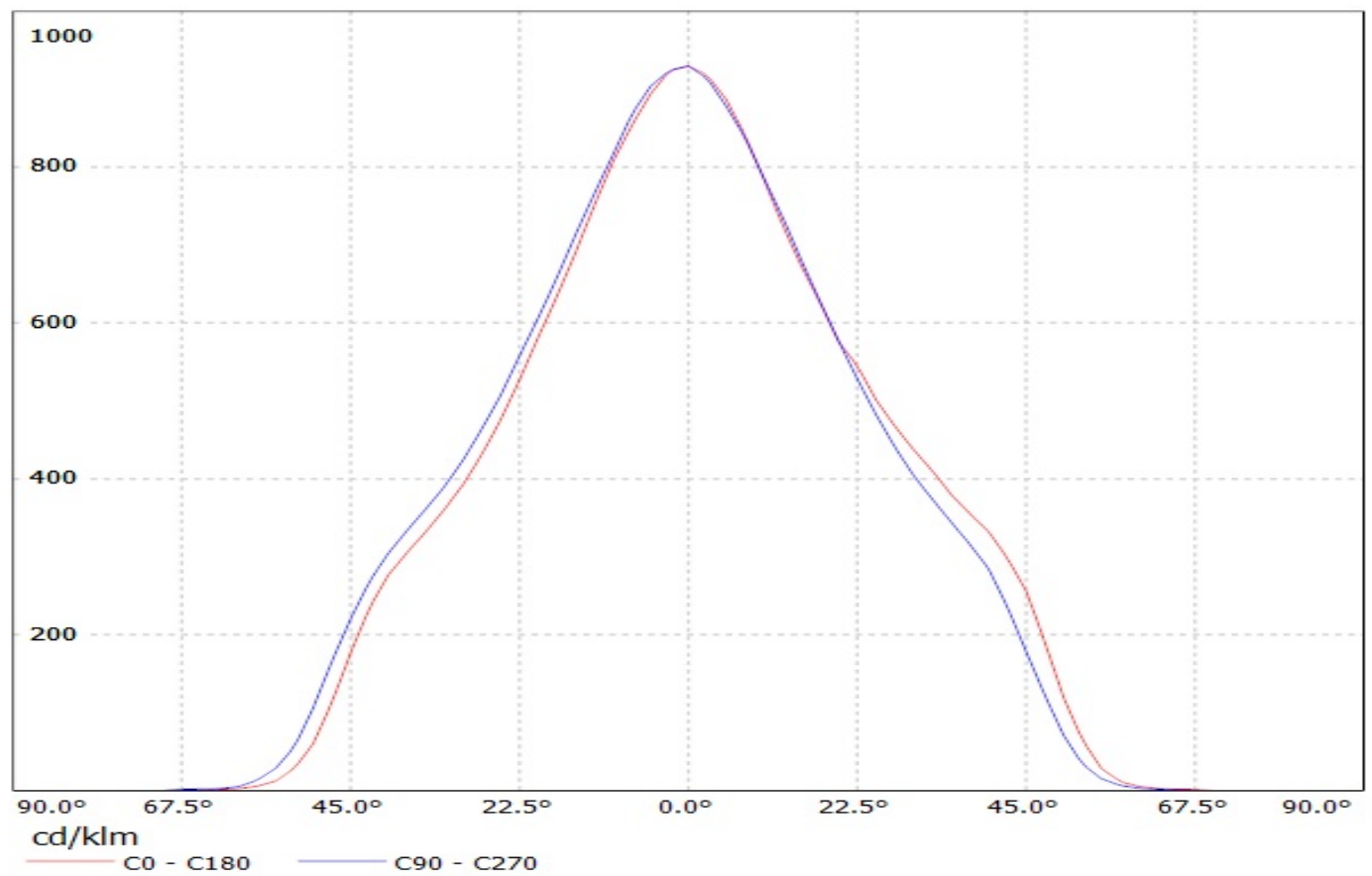
Lamps: 1 x LUXEON_K16 (1204.33lm@250mA)



Luminaire: LEDil Oy FC13978_ANGELINA-RZ-M-B_(Luxeon_K16) Efficiency=89%
Lamps: 1 x Luxeon K16 (LXK8-PW40-0016) 1200lm @ 250mA CCT=4000 P=10.9W I=250mA



Luminaire: LEDil Oy FC13976_ANGELINA-RZ-W_(Luxeon_K16) Efficiency=89%
Lamps: 1 x Luxeon K16 (LXK8-PW40-0016) 1200lm @ 250mA CCT=4000K P=10.9W I=250mA

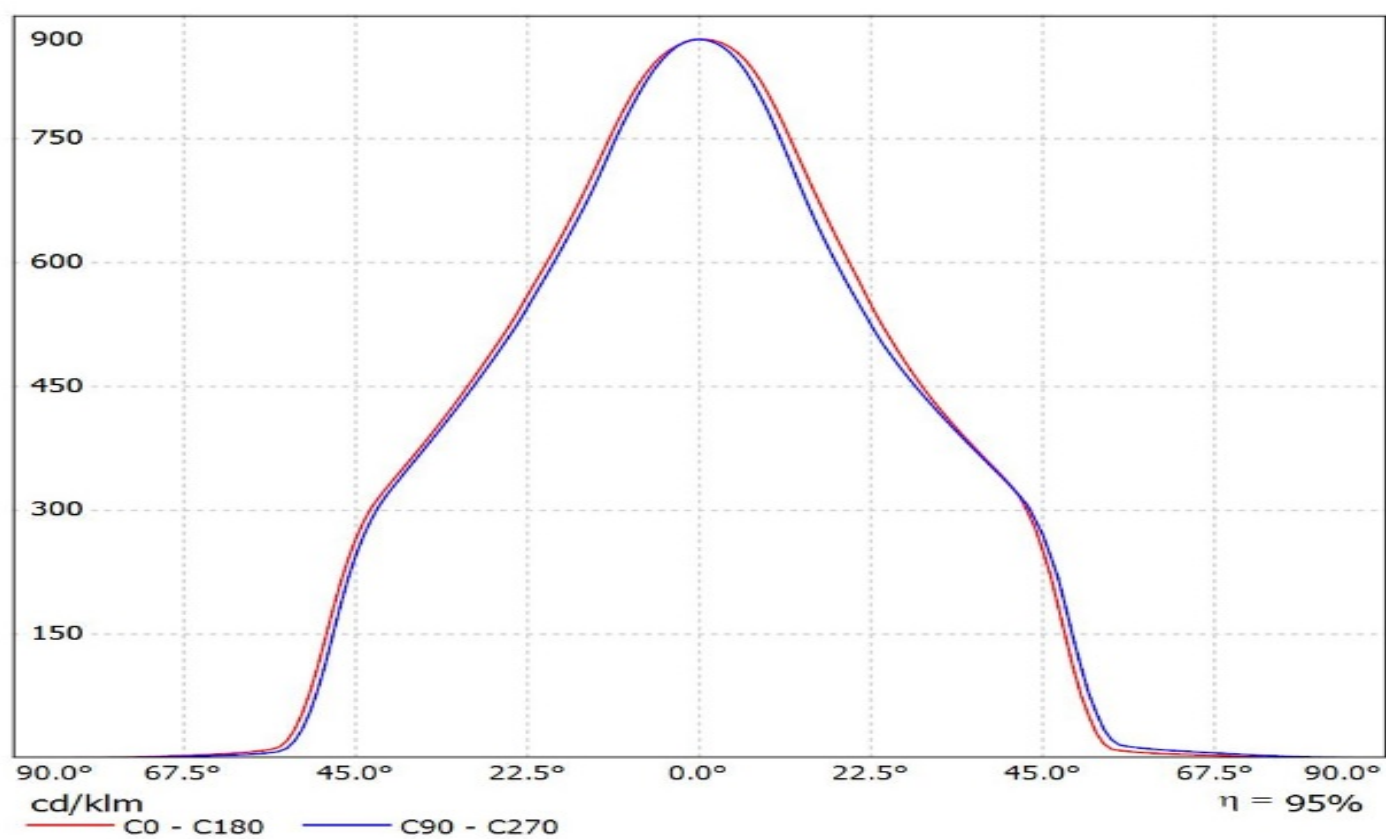


Ledil F13661_ANGELINA-W-B_(Luxeon_K16)_(47_319_2070) / LDC (Linear)

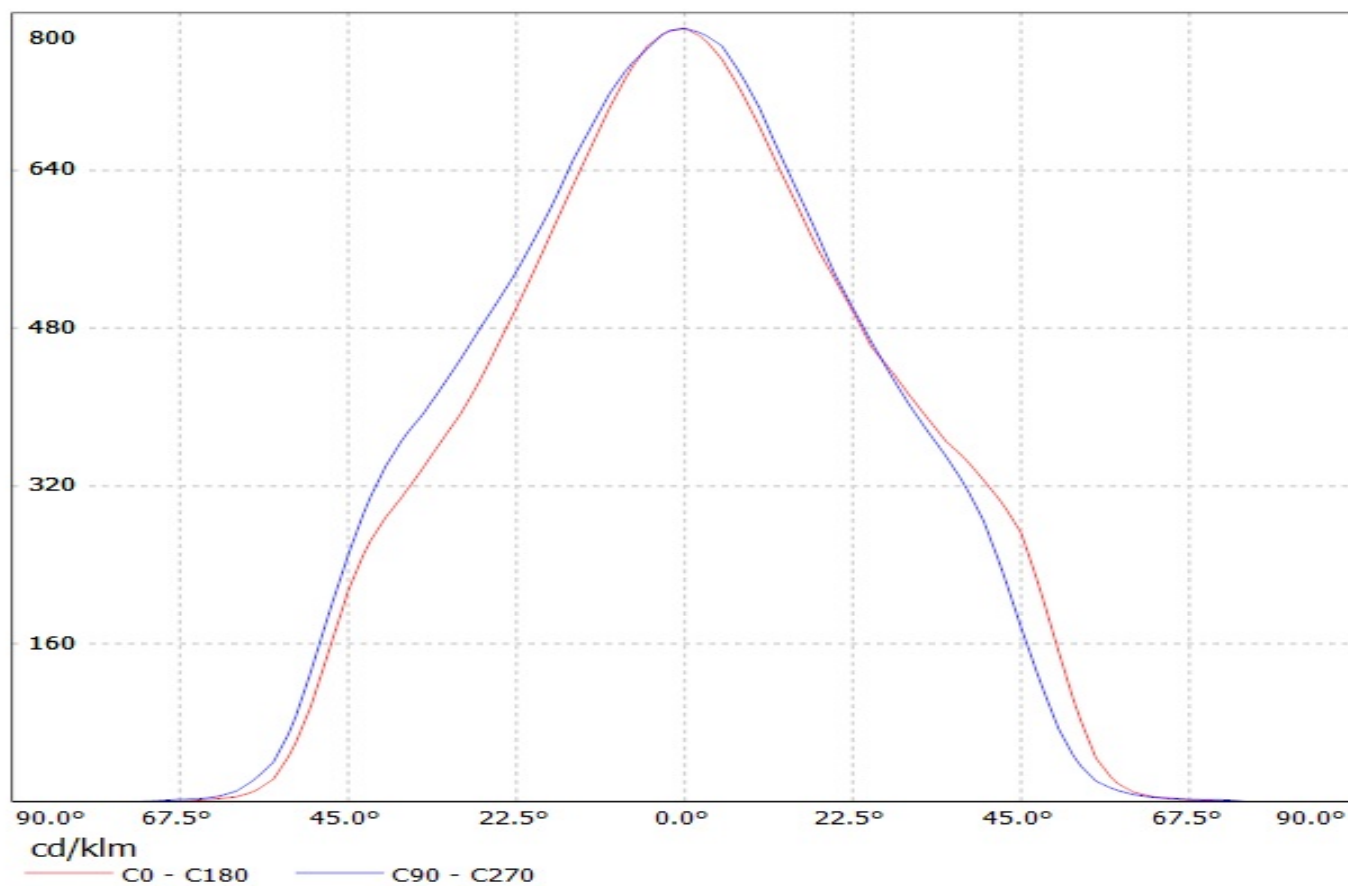
Luminaire: Ledil F13661_ANGELINA-W-B_(Luxeon_K16)_(47_319_2070)

Lamps: 1 x Philips_Lumileds_Luxeon_K16_(BJB.47.319.2070)

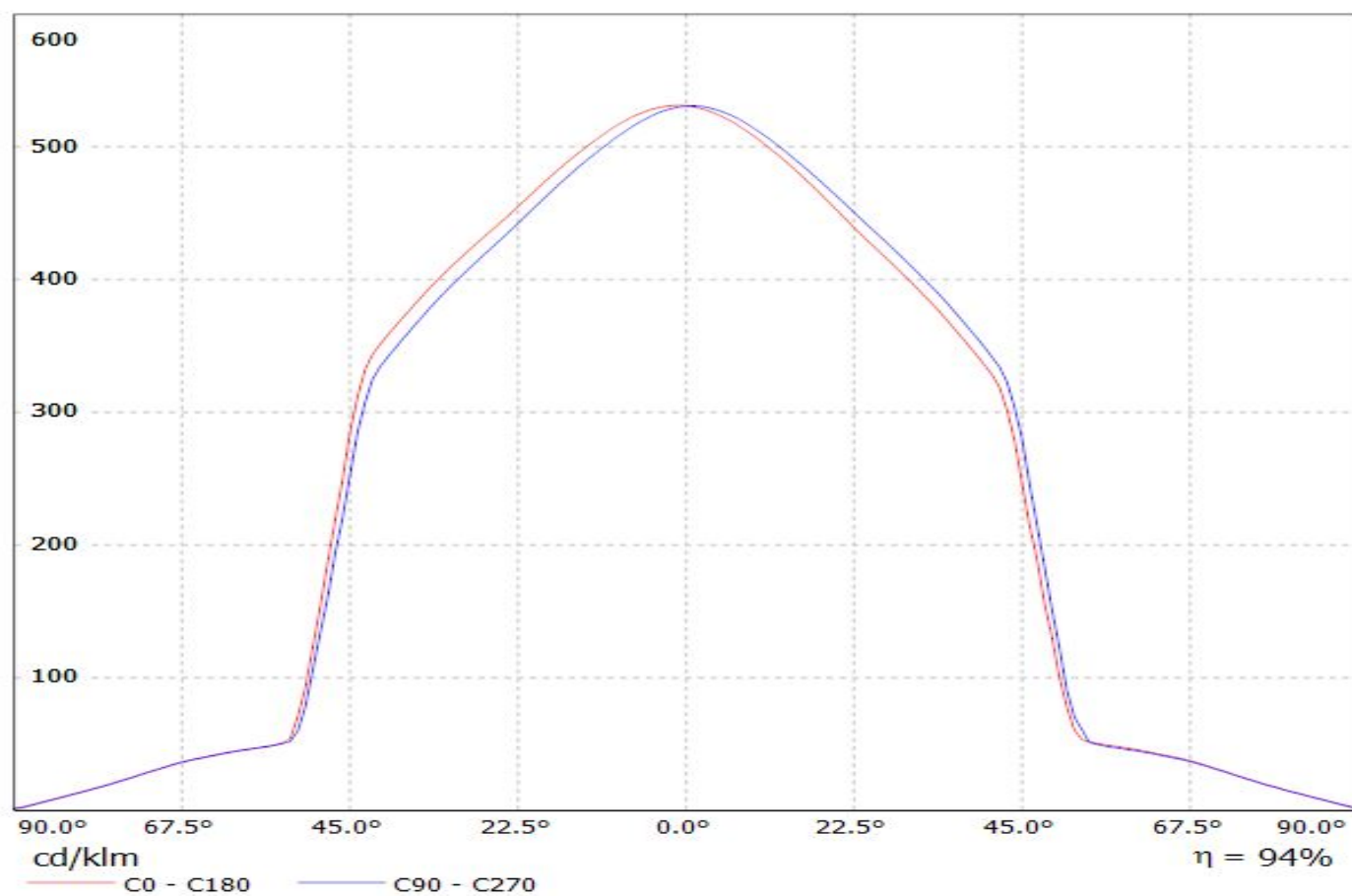
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Luminaire: LEDil Oy FC13979_ANGELINA-RZ-W-B_(Luxeon_K16) Efficiency=89%
Lamps: 1 x Luxeon K16 (LXK8-PW40-0016) 1200lm @ 250mA CCT=4000K P=10.9W I=250mA



Luminaire: LEDiL Oy F13838_ANGELINA-XW_(K16) Eff.94.0%
Lamps: 1 x Luxeon_K16_1246lm@250mA_P=10.8991W_U=249.9mA

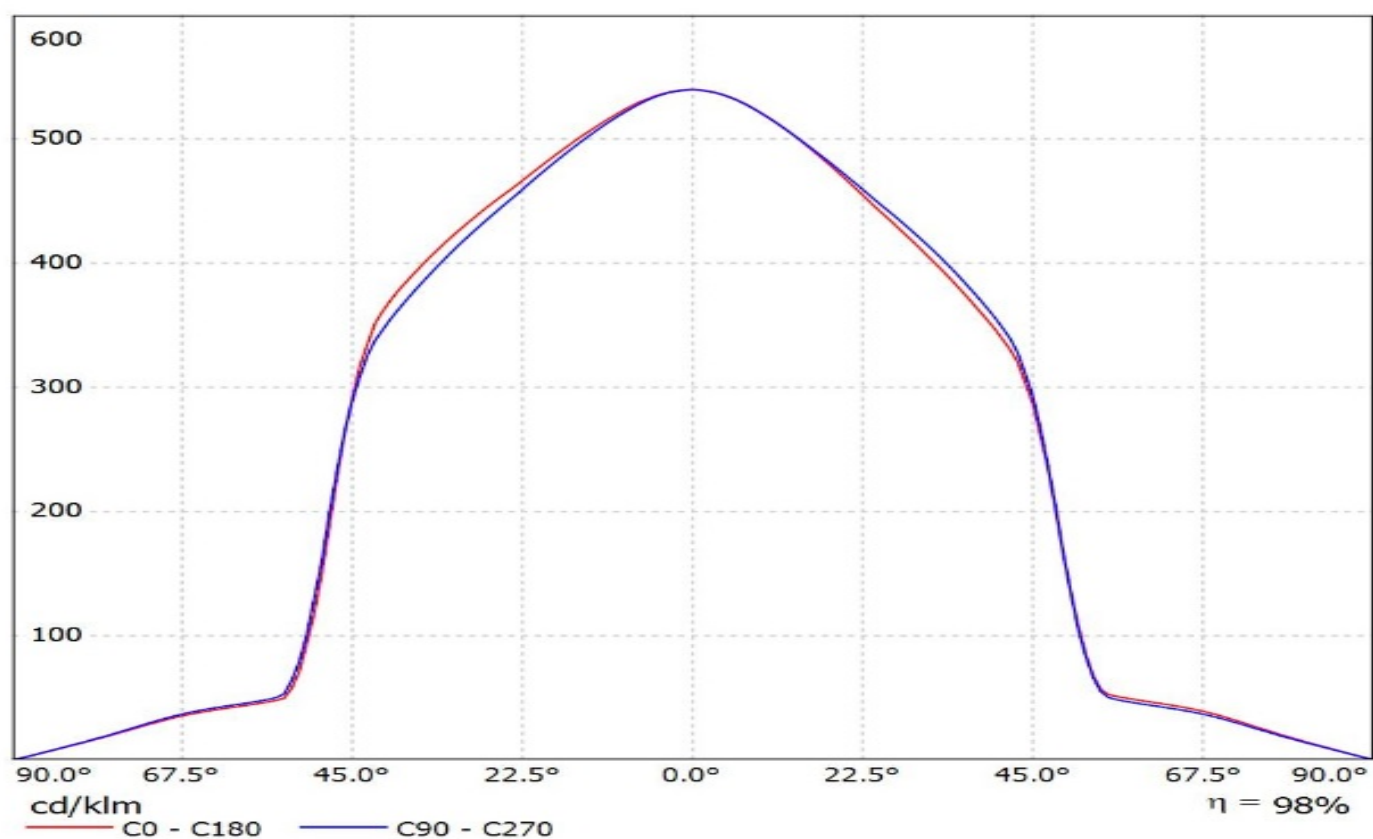


Ledil F13839_ANGELINA-XW-B_(Luxeon_K16)_(47_319_2070) / LDC (Linear)

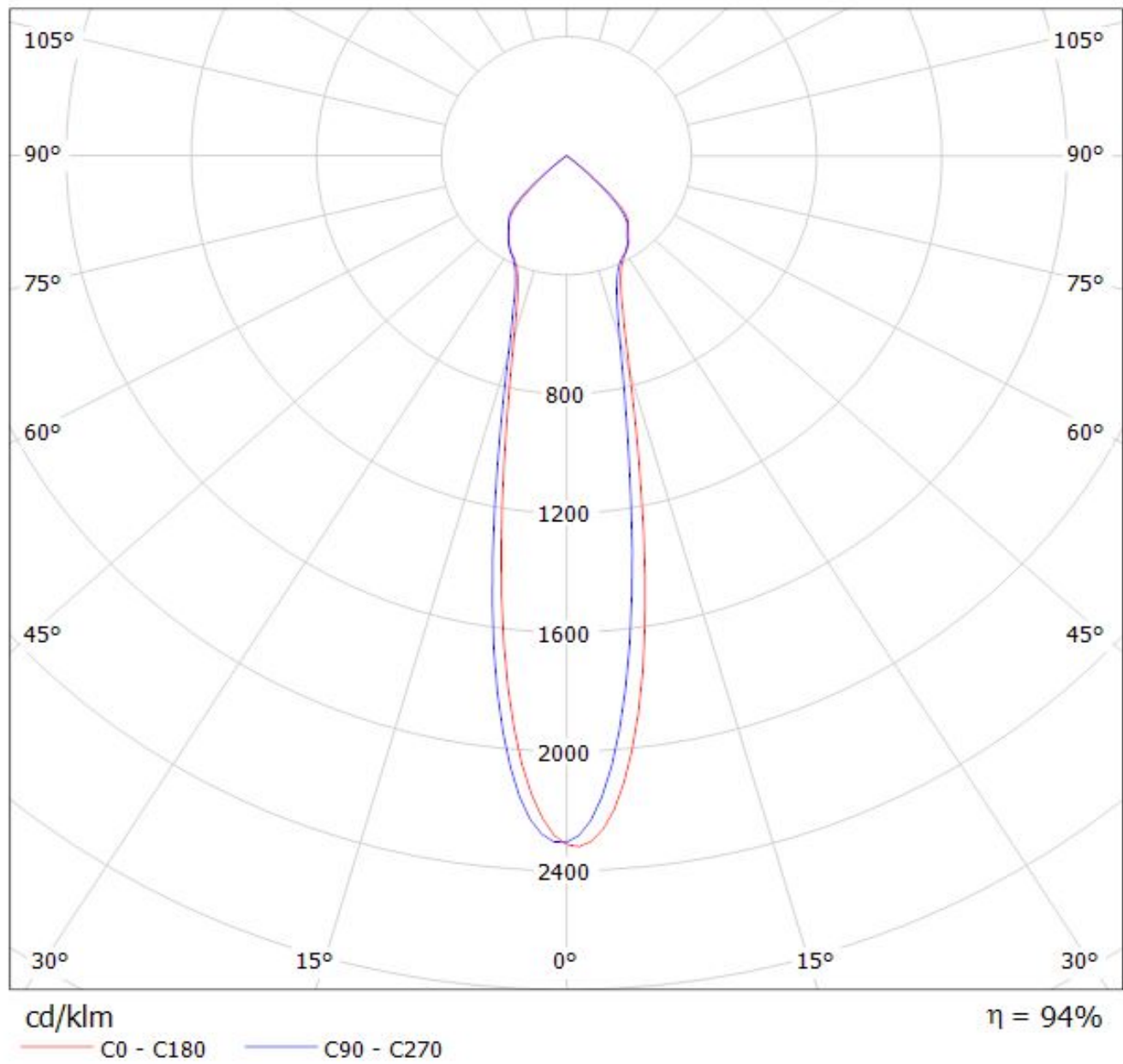
Luminaire: Ledil F13839_ANGELINA-XW-B_(Luxeon_K16)_(47_319_2070)

Lamps: 1 x Philips_Lumileds_Luxeon_K16_(BJB.47.319.2070)

_1276.25lm@250mA_P=10.95525W_I=0.250A



Luminaire: LEDiL Oy C13325_ANGELINA-S_(Luxeon_K16) Eff.94.2%
Lamps: 1 x LUXEON_K16 (1204.33lm@250mA)

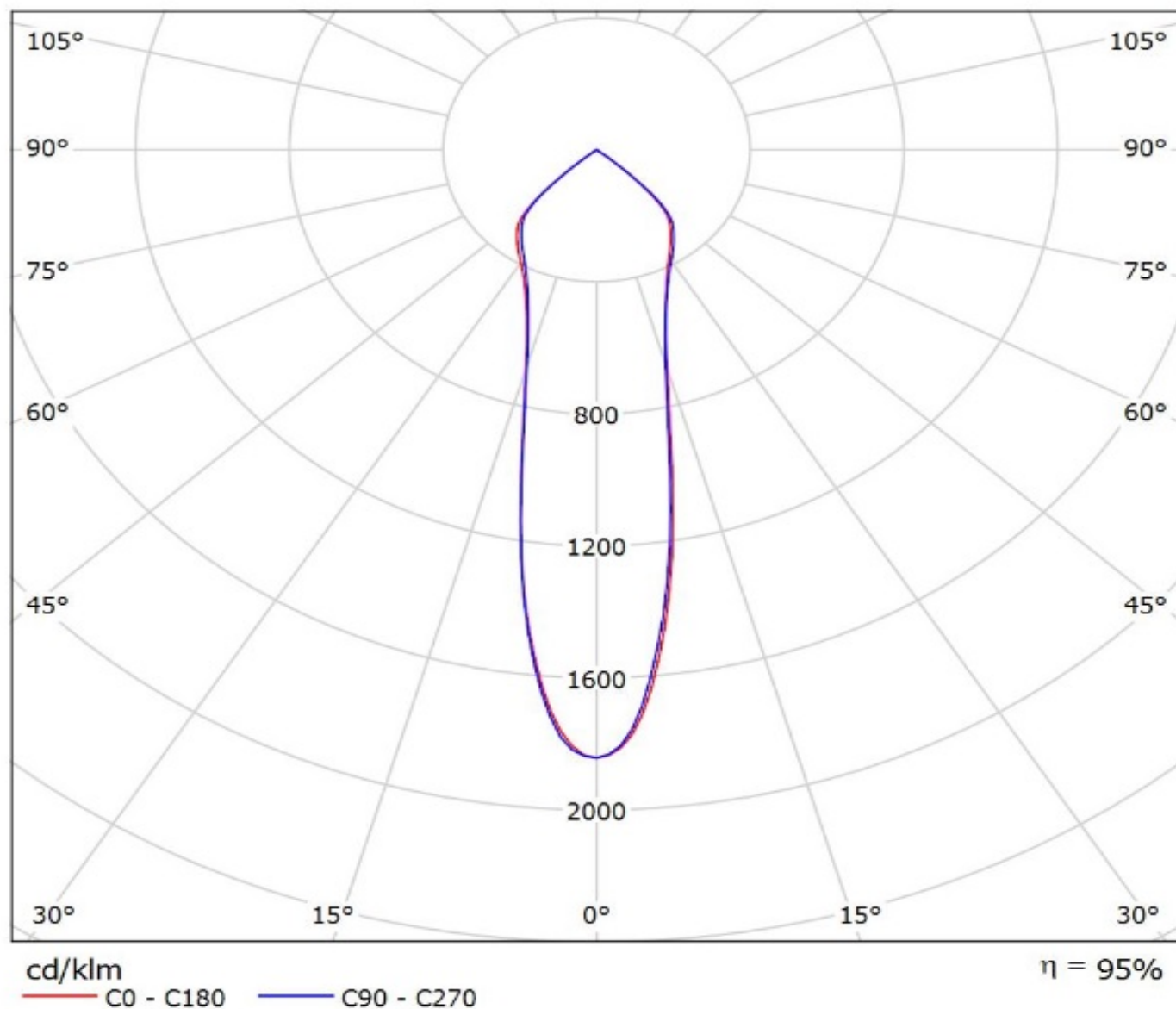


Ledil F13659_ANGELINA-S-B_(Luxeon_K16)_(47_319_2070) / LDC (Polar)

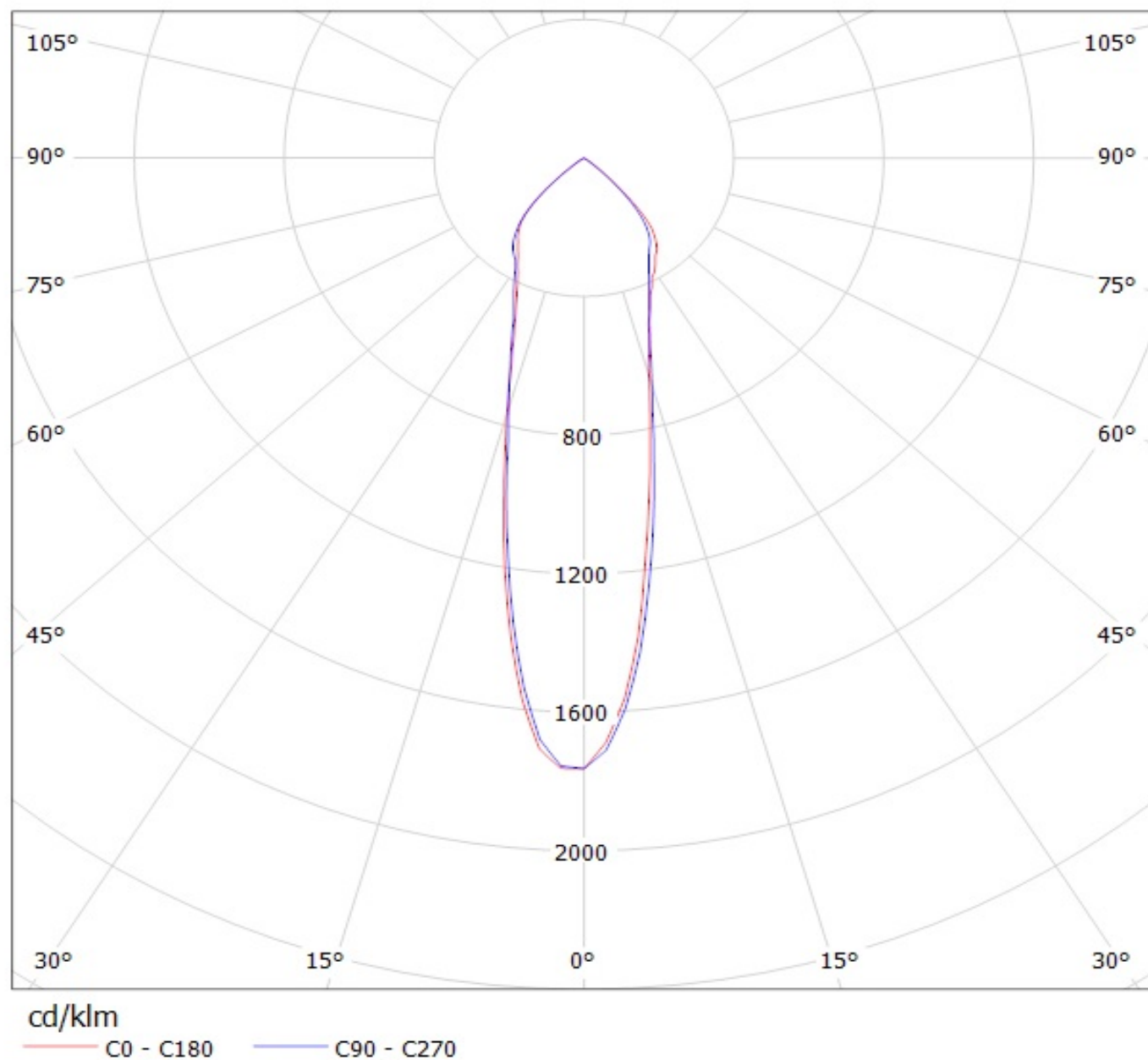
Luminaire: Ledil F13659_ANGELINA-S-B_(Luxeon_K16)_(47_319_2070)

Lamps: 1 x Philips_Lumileds_Luxeon_K16_(BJB.47.319.2070)

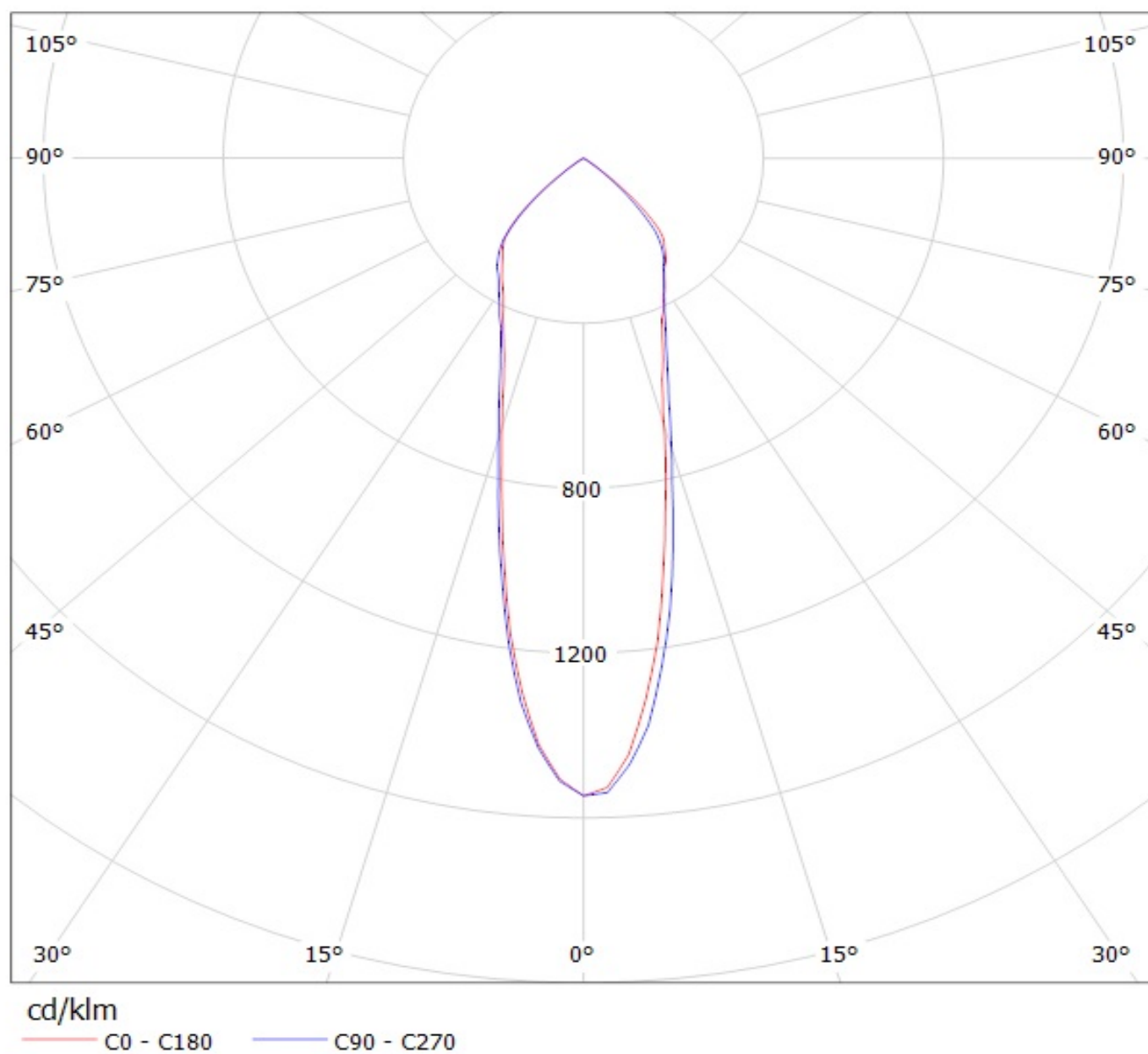
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Luminaire: LEDil Oy FC13973_ANGELINA-RZ-S_(Luxeon_K16) Efficiency=89%
Lamps: 1 x Luxeon K16 (LXK8-PW40-0016) 1200lm @ 250mA CCT=4000K P=10.9W I=250mA



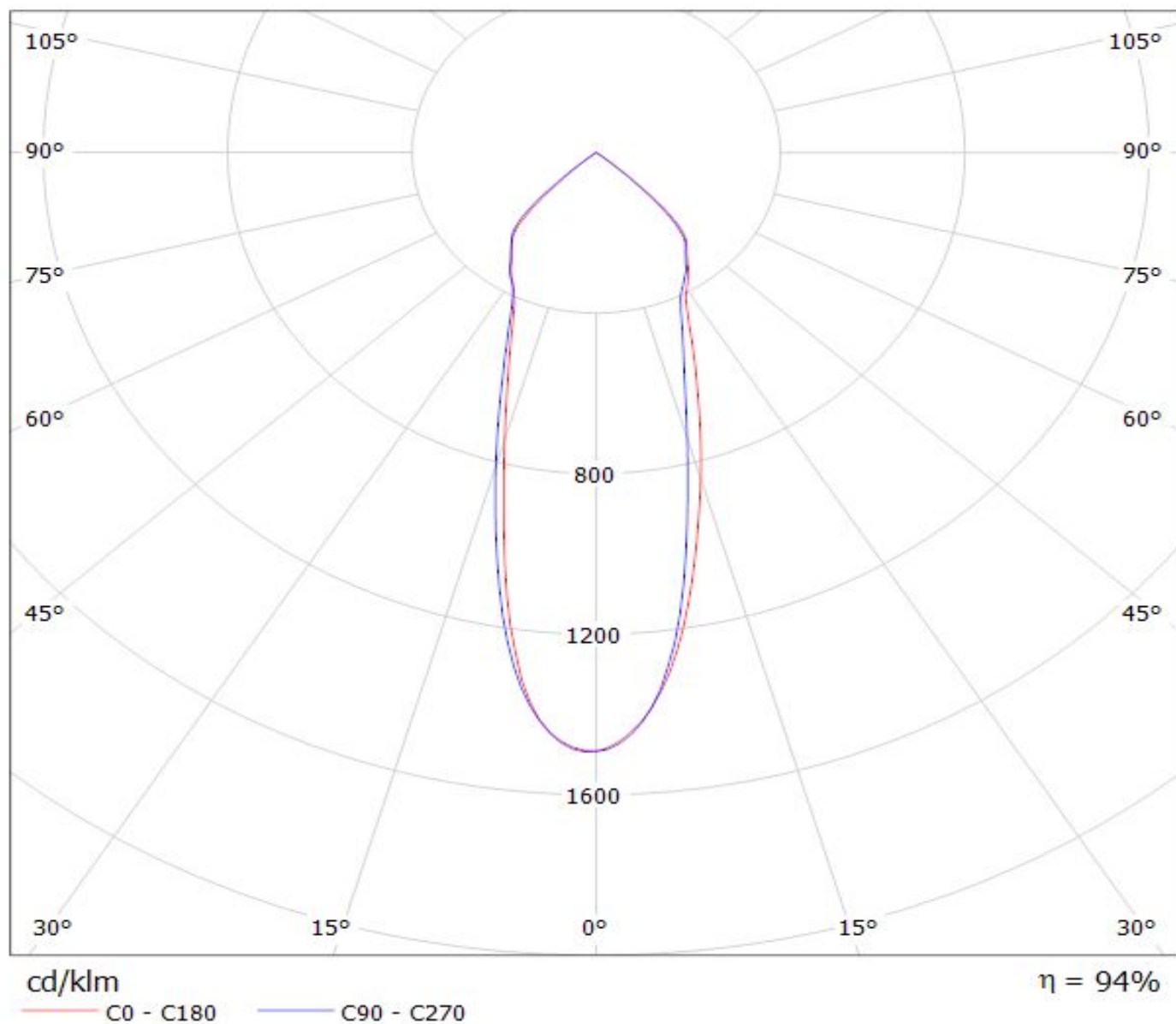
Luminaire: LEDil Oy FC13977_ANGELINA-RZ-S-B_(Luxeon_K16) Efficiency=89%
Lamps: 1 x Luxeon K16 (LXK8-PW40-0016) 1200lm @ 250mA CCT=4000K P=10.9W I=250mA



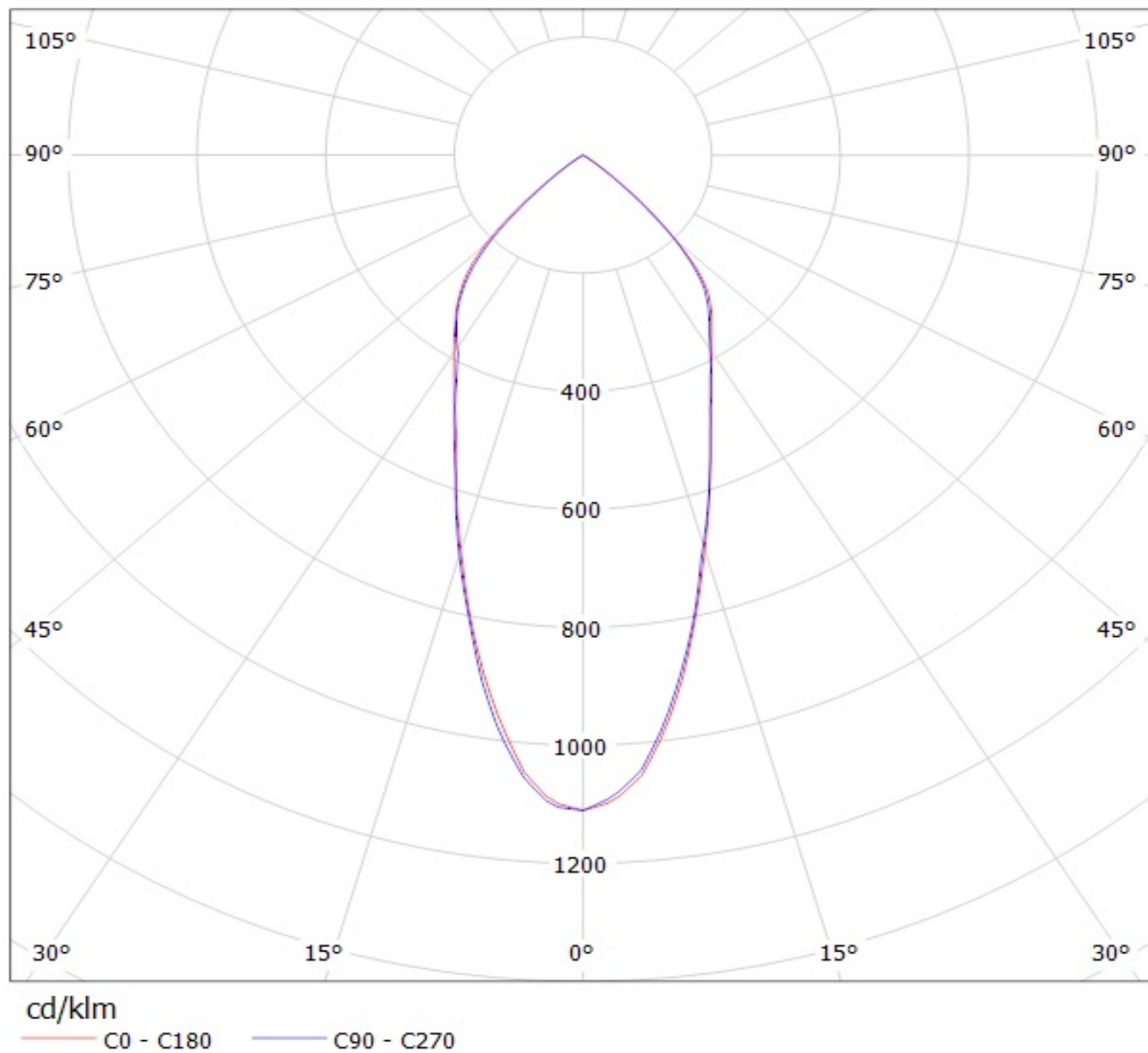
LEDiL Oy C13401_ANGELINA-M_(LUXEON_K16) Eff.93.6% / LDC (Polar)

Luminaire: LEDiL Oy C13401_ANGELINA-M_(LUXEON_K16) Eff.93.6%

Lamps: 1 x LUXEON_K16 (1204.33lm@250mA)



Luminaire: LEDil Oy FC13975_ANGELINA-RZ-M_(Luxeon_K16) Efficiency=89%
Lamps: 1 x Luxeon K16 (LXK8-PW40-0016) 1200lm @ 250mA CCT=4000K P=10.9W I=250mA

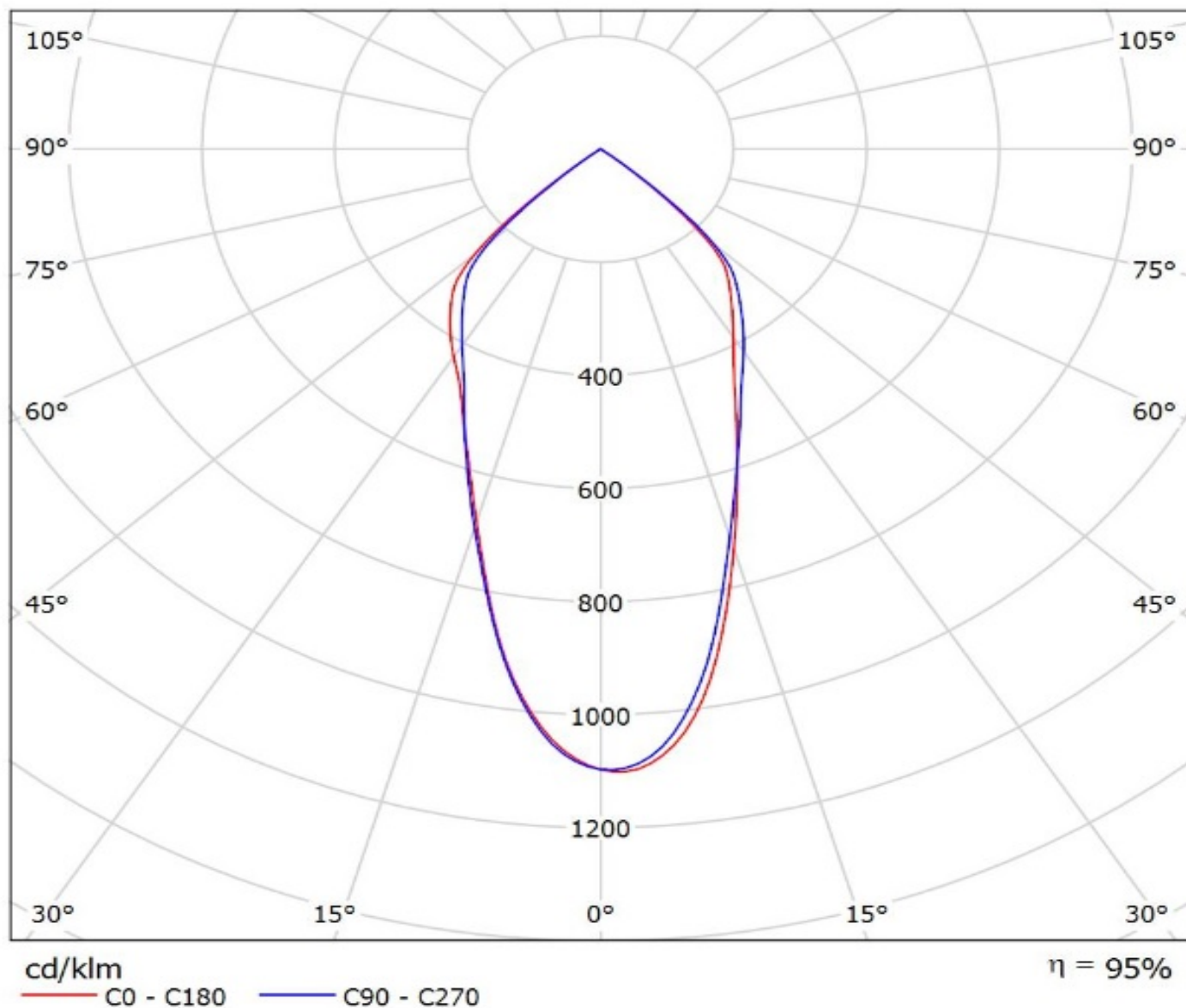


Ledil F13660_ANGELINA-M-B_(Luxeon_K16)_(47_319_2070) / LDC (Polar)

Luminaire: Ledil F13660_ANGELINA-M-B_(Luxeon_K16)_(47_319_2070)

Lamps: 1 x Philips_Lumileds_Luxeon_K16_(BJB.47.319.2070)

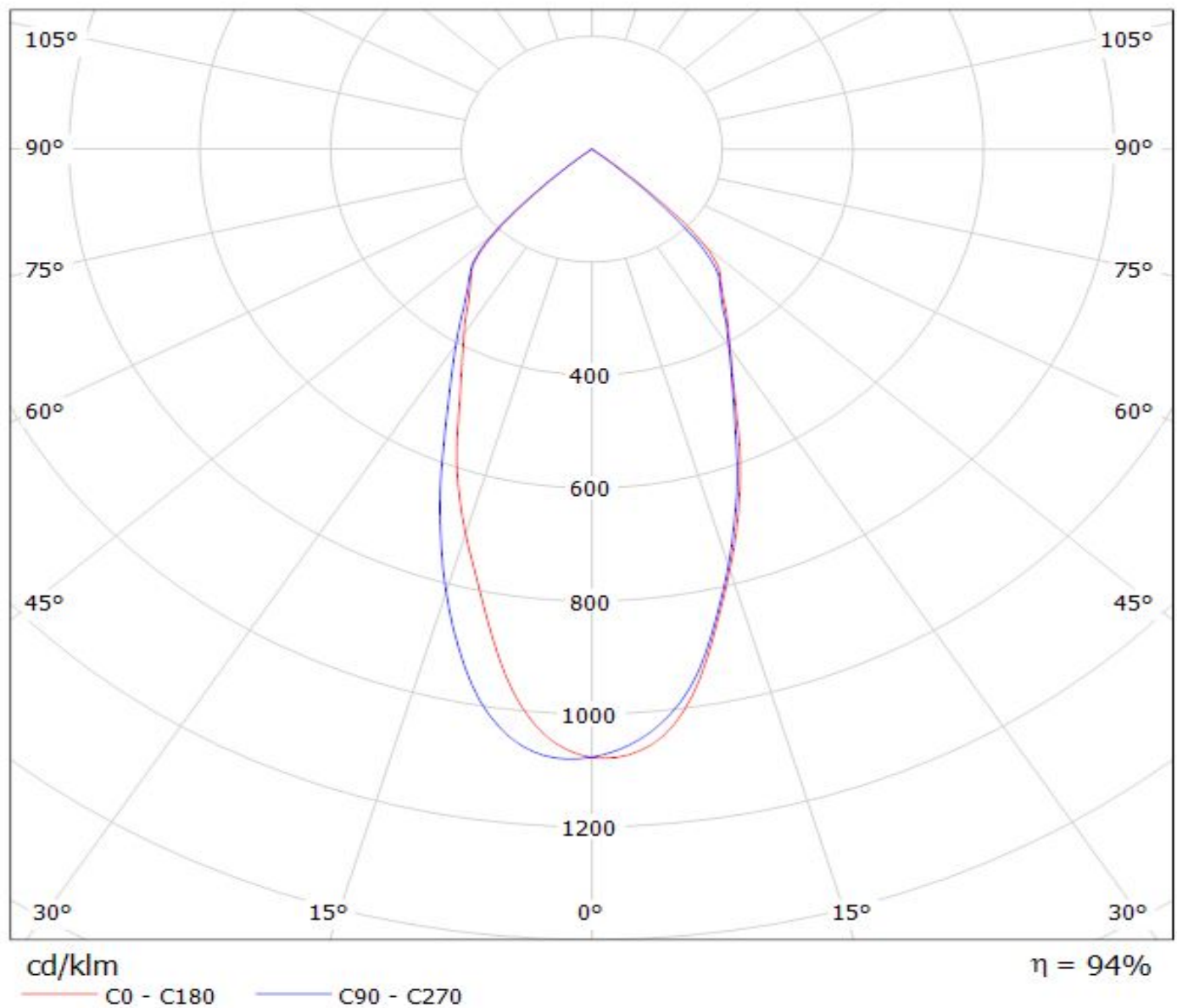
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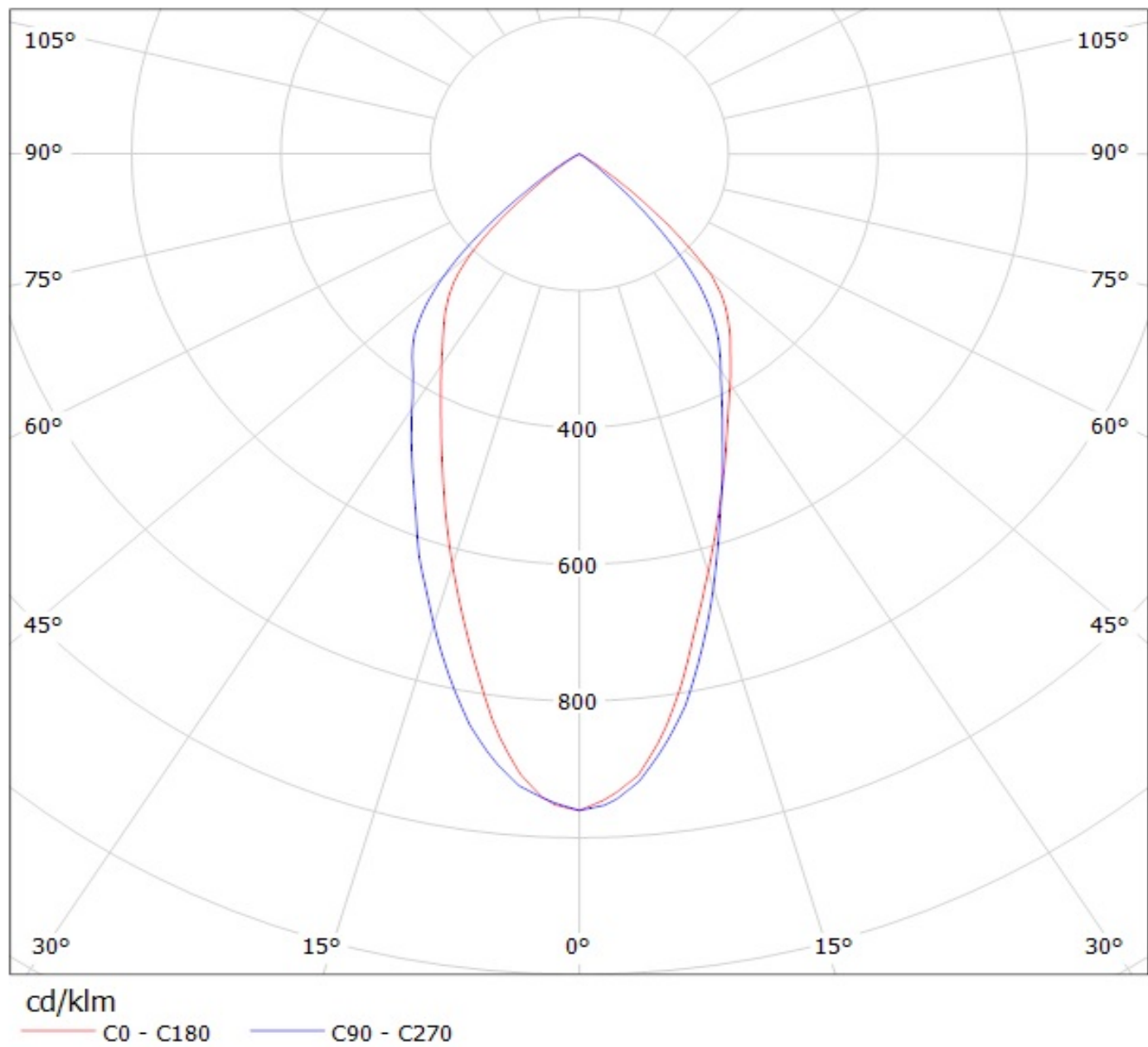
LEDiL Oy C13402_ANGELINA-W_(LUXEON_K16) Eff.93.7% / LDC (Polar)

Luminaire: LEDiL Oy C13402_ANGELINA-W_(LUXEON_K16) Eff.93.7%

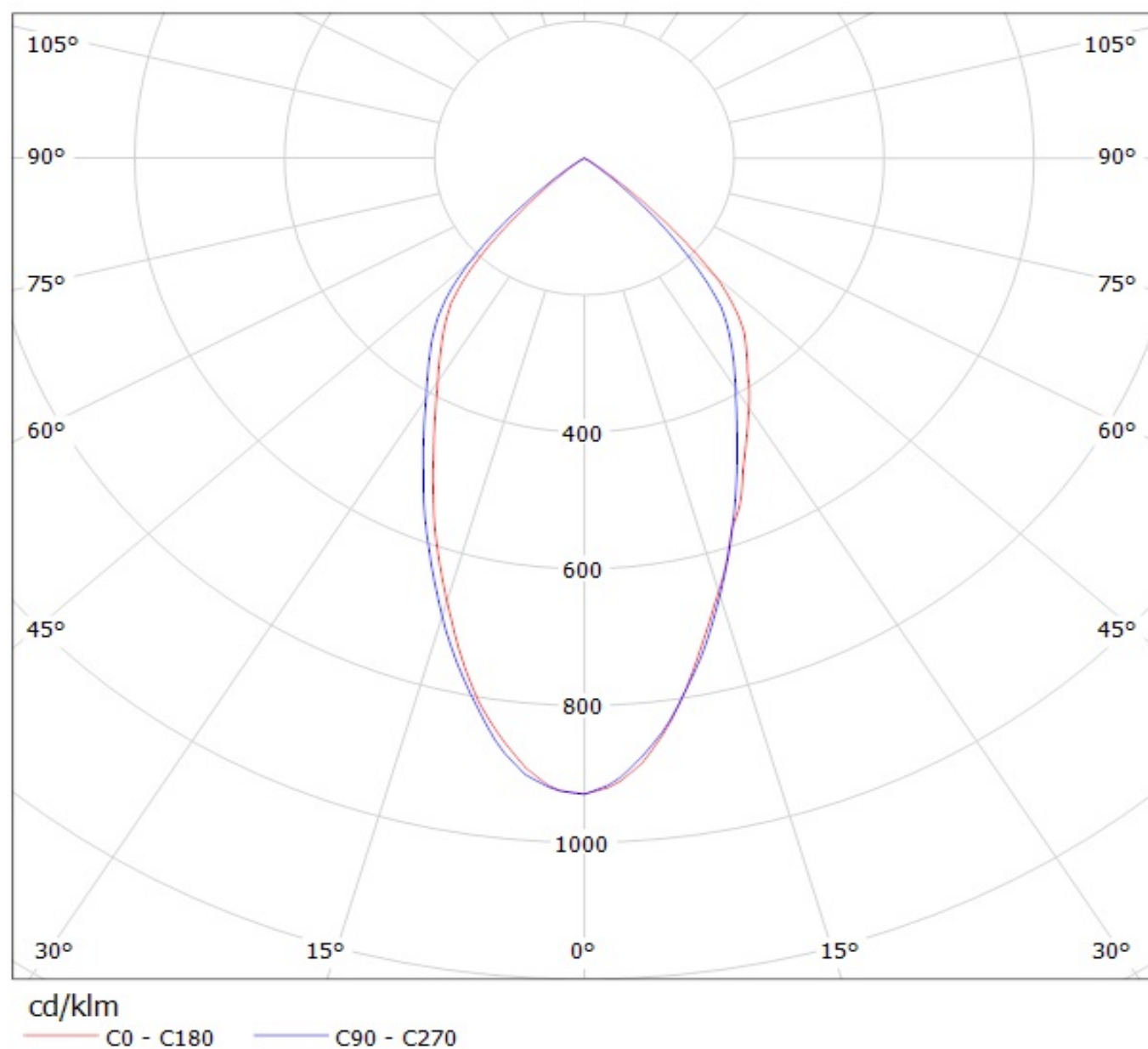
Lamps: 1 x LUXEON_K16 (1204.33lm@250mA)



Luminaire: LEDil Oy FC13978_ANGELINA-RZ-M-B_(Luxeon_K16) Efficiency=89%
Lamps: 1 x Luxeon K16 (LXK8-PW40-0016) 1200lm @ 250mA CCT=4000 P=10.9W I=250mA



Luminaire: LEDil Oy FC13976_ANGELINA-RZ-W_(Luxeon_K16) Efficiency=89%
Lamps: 1 x Luxeon K16 (LXK8-PW40-0016) 1200lm @ 250mA CCT=4000K P=10.9W I=250mA

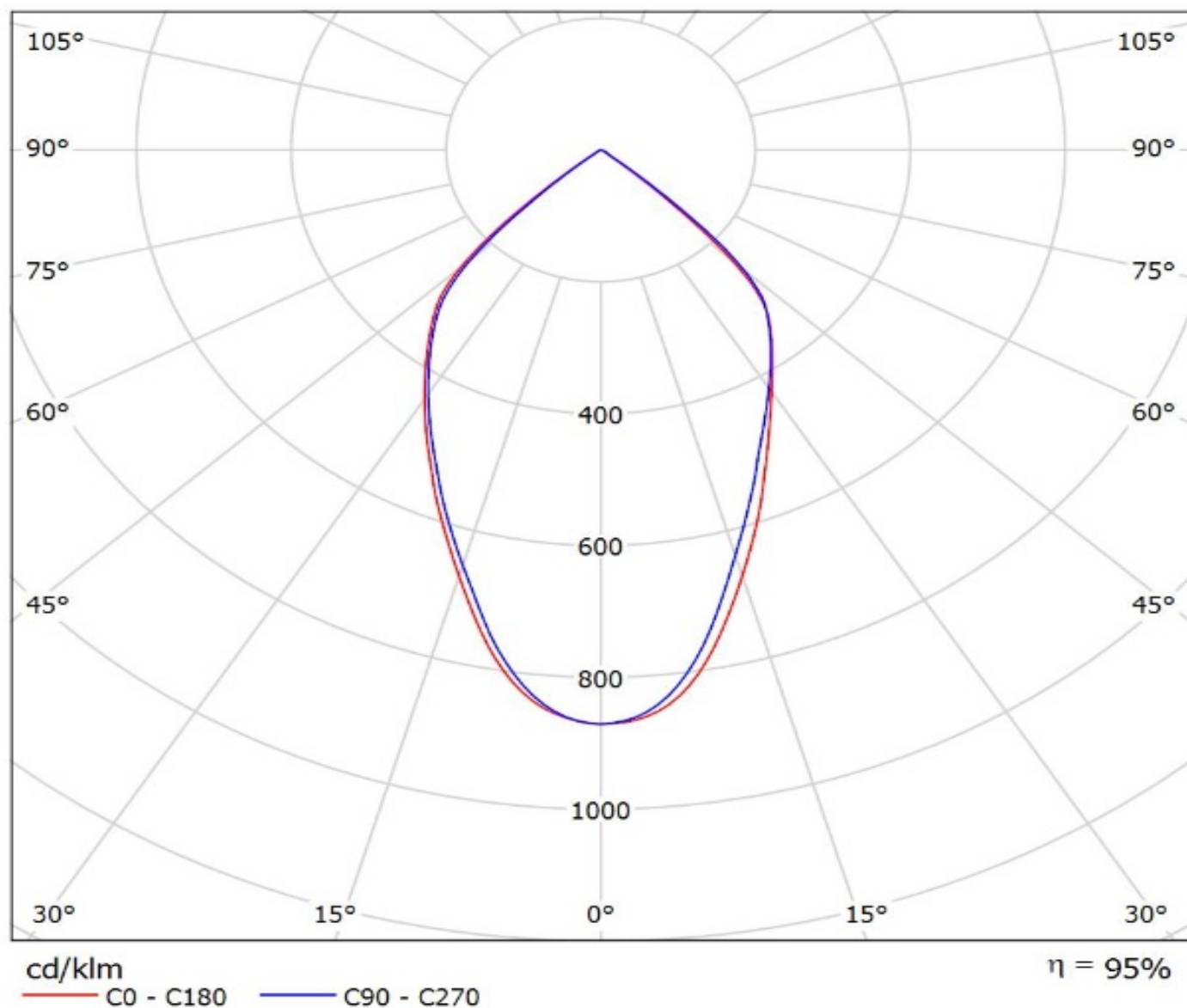


Ledil F13661_ANGELINA-W-B_(Luxeon_K16)_(47_319_2070) / LDC (Polar)

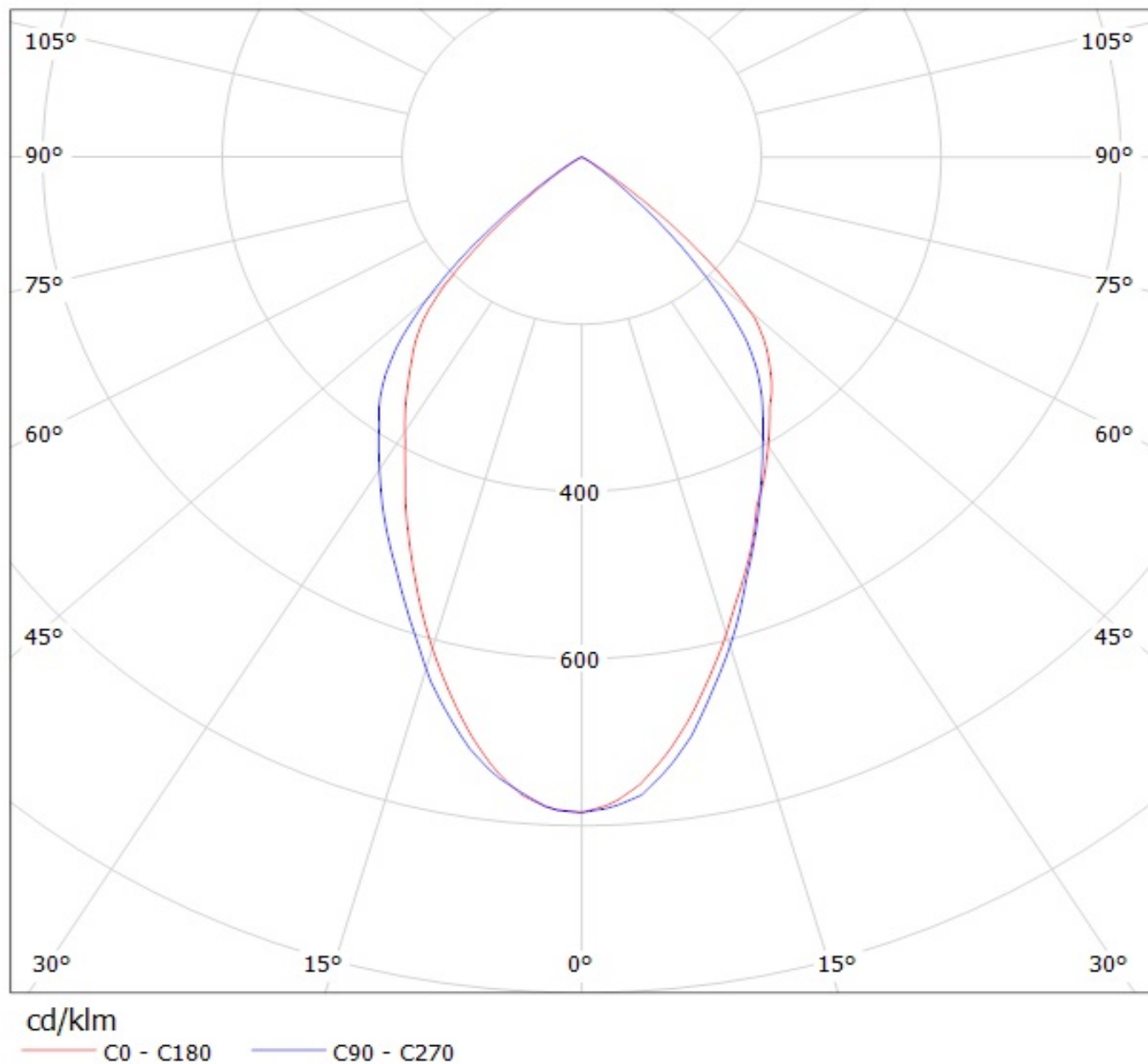
Luminaire: Ledil F13661_ANGELINA-W-B_(Luxeon_K16)_(47_319_2070)

Lamps: 1 x Philips_Lumileds_Luxeon_K16_(BJB.47.319.2070)

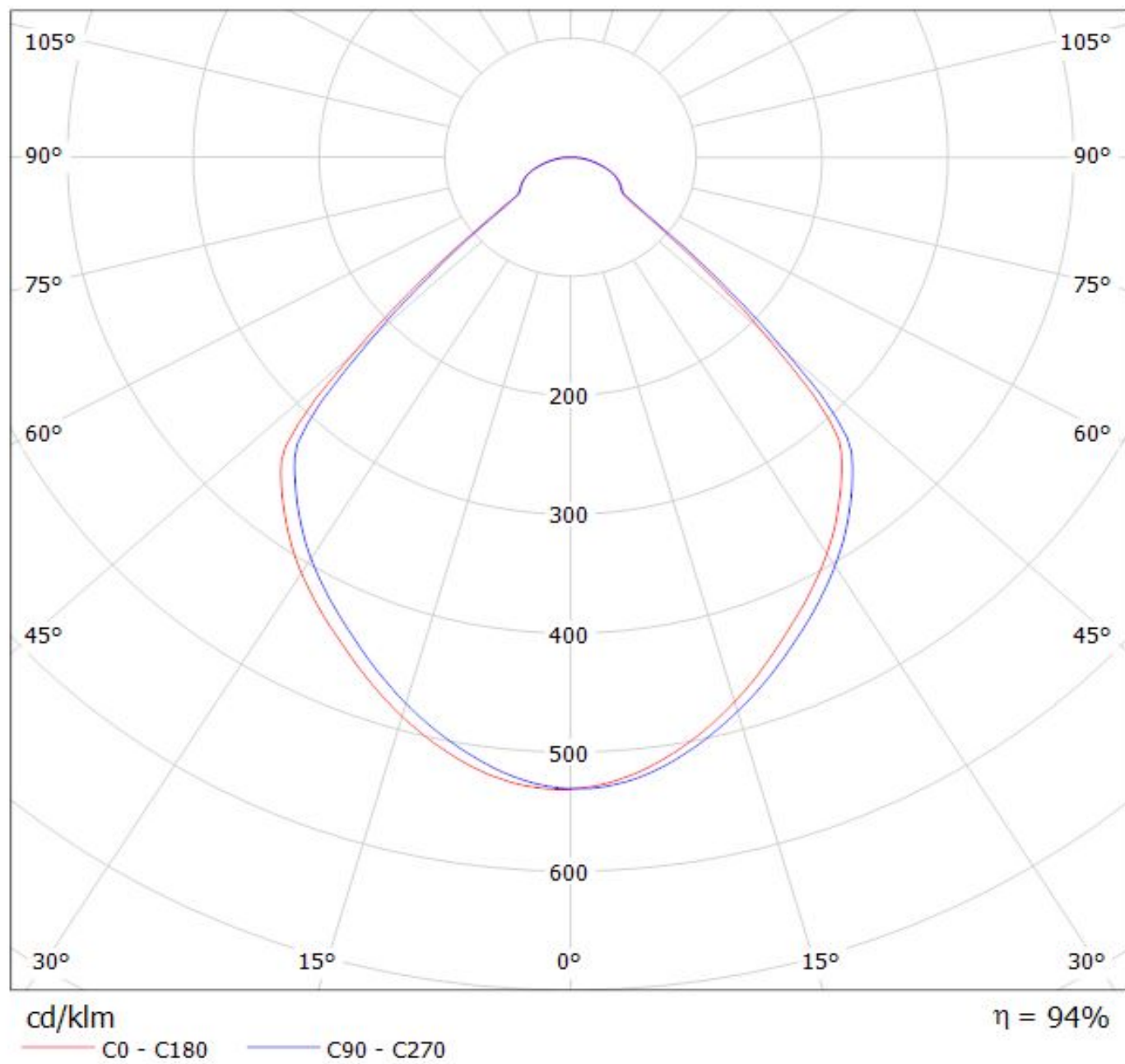
_1276.25lm@250mA_P=10.95525W_I=0.250A



Luminaire: LEDil Oy FC13979_ANGELINA-RZ-W-B_(Luxeon_K16) Efficiency=89%
Lamps: 1 x Luxeon K16 (LXK8-PW40-0016) 1200lm @ 250mA CCT=4000K P=10.9W I=250mA



Luminaire: LEDiL Oy F13838_ANGELINA-XW_(K16) Eff.94.0%
Lamps: 1 x Luxeon_K16_1246lm@250mA_P=10.8991W_U=249.9mA



Ledil F13839_ANGELINA-XW-B_(Luxeon_K16)_(47_319_2070) / LDC (Polar)

Luminaire: Ledil F13839_ANGELINA-XW-B_(Luxeon_K16)_(47_319_2070)

Lamps: 1 x Philips_Lumileds_Luxeon_K16_(BJB.47.319.2070)

_1276.25lm@250mA_P=10.95525W_I=0.250A

