

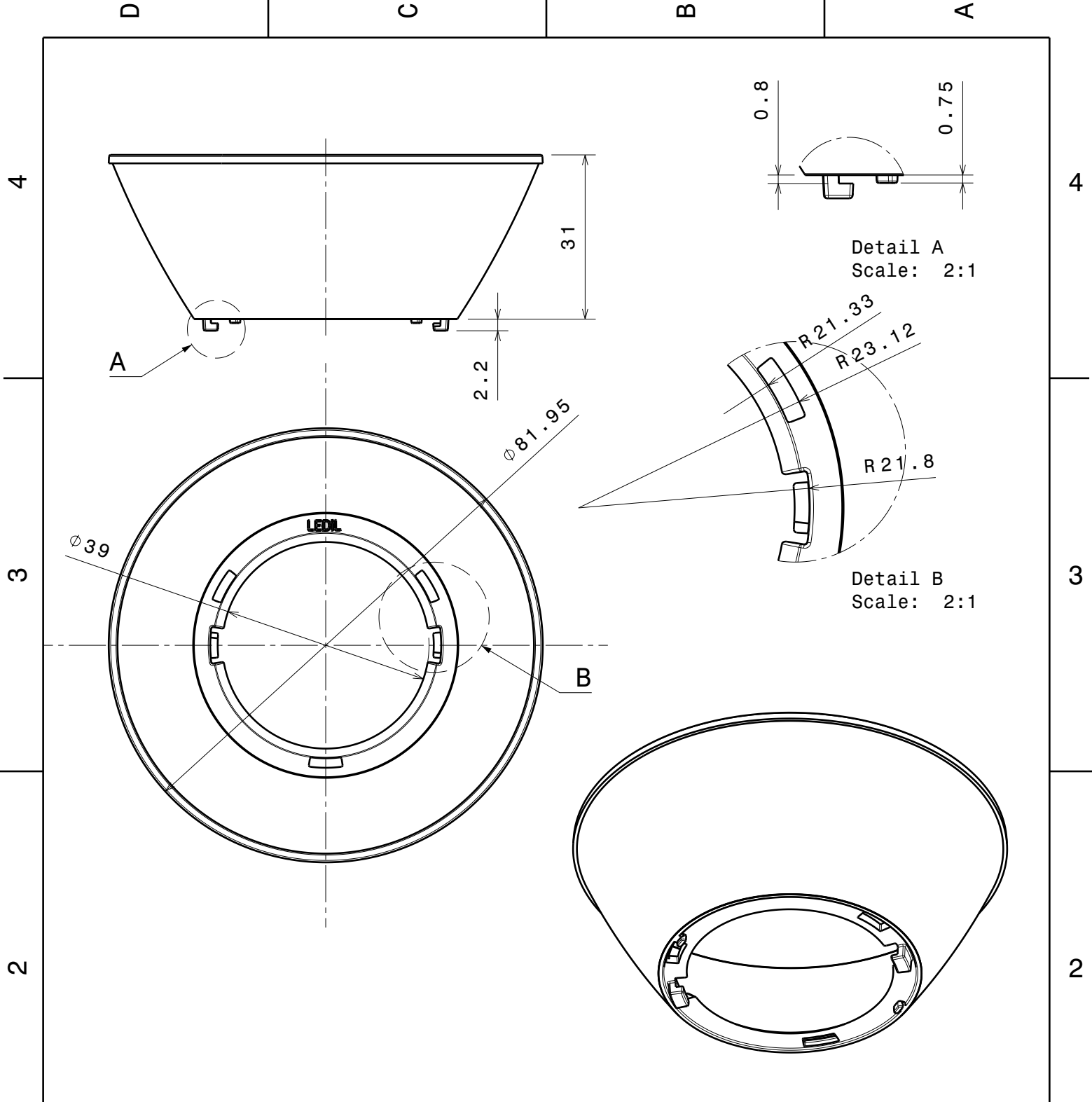
DETAILS

Product Number	F13660_ANGELINA-M-B
Family	ANGELINA
Type	Reflector
Color	metal
Diameter	82 mm
Height	31 mm
Style	round
Optic Material	PC
Holder Material	
Fastening	
Status	ready
ROHS Compliant	Yes
Date Updated	13/06/2014



OPTICAL PROPERTIES

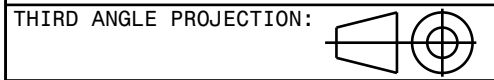
LED	Viewing Angle	Light Beam	Efficiency	cd/lm	connector
LUXEON K12	(simulated) 29		-	(simulated) 0.000	Solderless Connector 47.319.2070 BJB
LUXEON K16	(simulated) 31		-	(simulated) 0.000	Solderless Connector 47.319.2070 BJB
CLL04x/CLU044	(simulated) 37		(simulated) 95 %	(simulated) 1.600	Solderless Connector 47.319.2030 BJB
COB 10W/13W/17W/24W	(simulated) 36		-	(simulated) 0.000	Solderless Connector 47.319.2080 BJB
CLL03x/CLU034	37 degrees		92 %	1.400	Solderless Connector 47.319.2020 BJB
Soleriq S13	37 degrees		94 %	1.270	8502/G2 A.A.G. STUCCHI
BXRA ES Rectangle	38 degrees		92 %	1.320	Solderless Connector 47.319.2040 BJB
CXM-14	40 degrees		94 %	1.300	Solderless Connector 47.319.2020 BJB
Soleriq S19	41 degrees		93 %	1.200	8503/G2 A.A.G. STUCCHI
Soleriq S19	41 degrees		94 %	1.170	Solderless Connector 47.319.2170 BJB
Soleriq E30	42 degrees		90 %	1.190	Solderless Connector 47.319.2090 BJB
CXM-22	48 degrees		92 %	1.000	Solderless Connector 47.319.2030 BJB



INDEX	PART NO	DESCRIPTION	MATERIAL	COLOUR
1		ANGELINA-B	PC	metal

Tolerances if not otherwise shown
 According to DIN ISO 2768-1
 Linear measures:
 Up to 30mm class F, otherwise class M.
 According to DIN ISO 2768-2
 Form and position: class K

LEDiL Ledil Oy
 Salorankatu 10
 FIN 24240 SALO
 Finland



DRAWING TITLE
ANGELINA-B series Reflector

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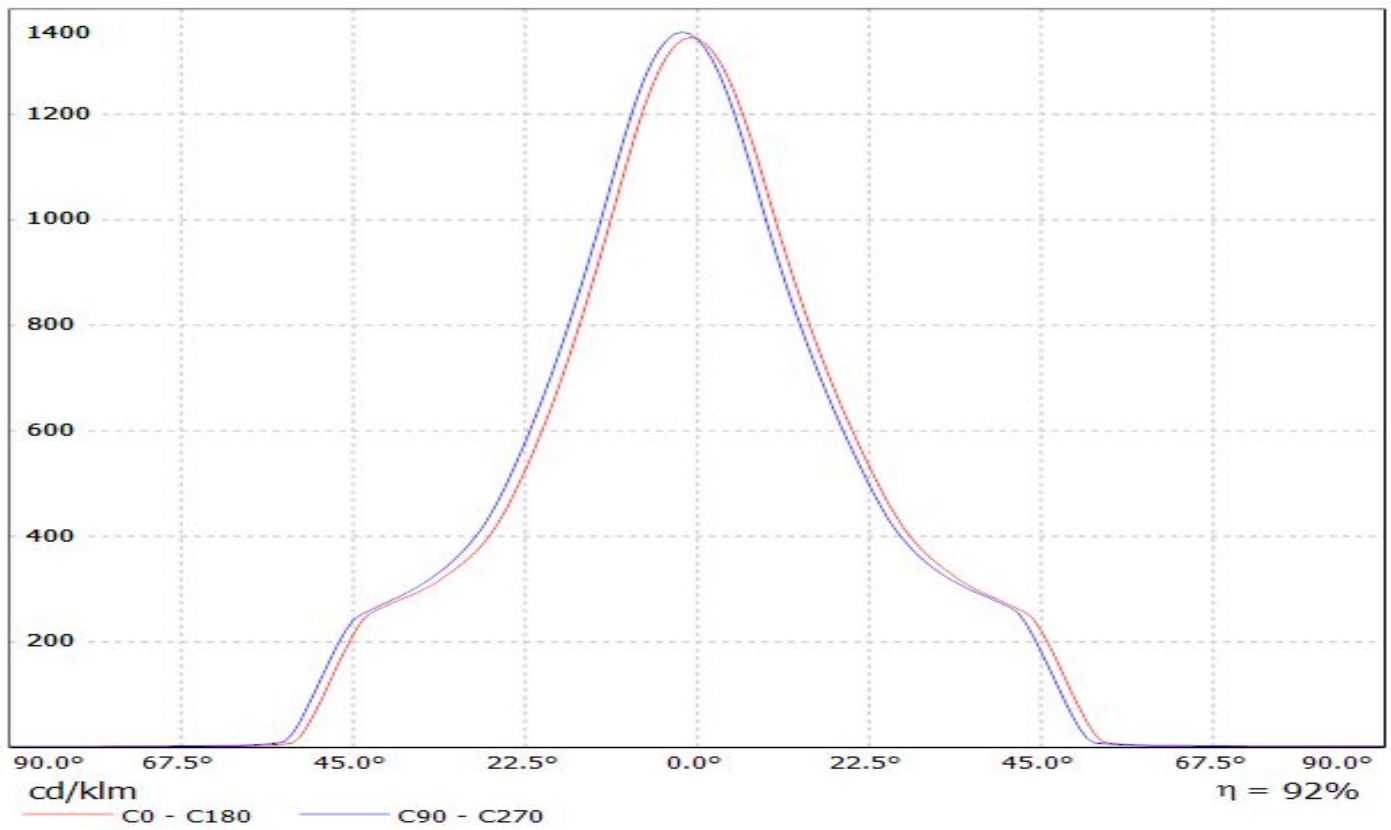
SIZE	PART NUMBER
A4	-

SCALE	1:1	WEIGHT	-	SHEET	1/1
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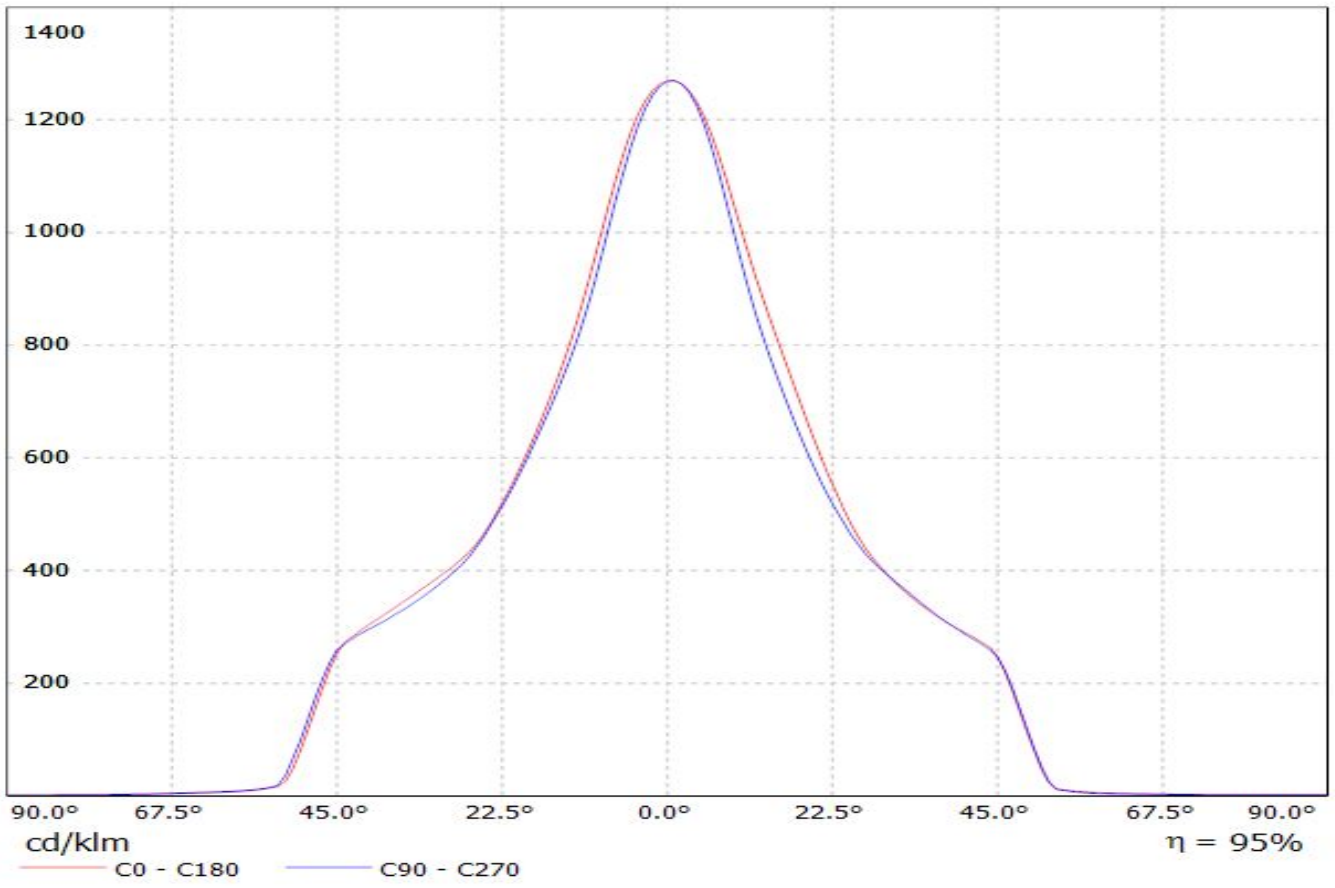
LEDiL Oy C13660_ANGELINA-M-B_(CLL030) Eff.91.7% / LDC (Linear)

Luminaire: LEDiL Oy C13660_ANGELINA-M-B_(CLL030) Eff.91.7%

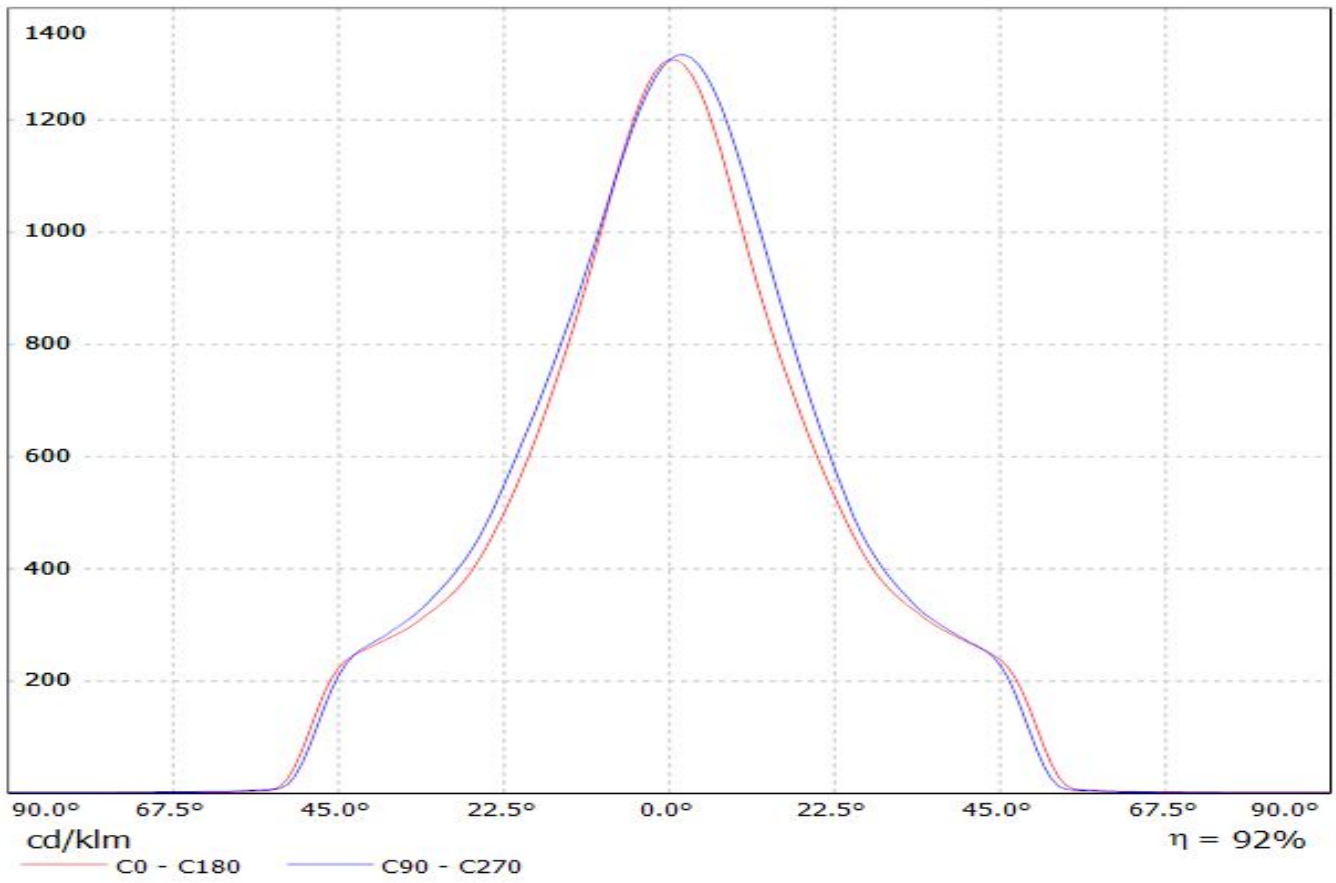
Lamps: 1 x CITIZEN_CLL030_(CLL030-1205A5-303H1A7) 797.292lm@250mA CCT=3000K P=8.65307W I=249.8mA



Luminaire: LEDiL Oy F13660_ANGELINA-M-B_(Soleriq_S13) Eff.94.0%
Lamps: 1 x Osram_Soleriq_S13_825.418lm@250mA_CCT=3125K_P=7.33663W_I=249.8mA

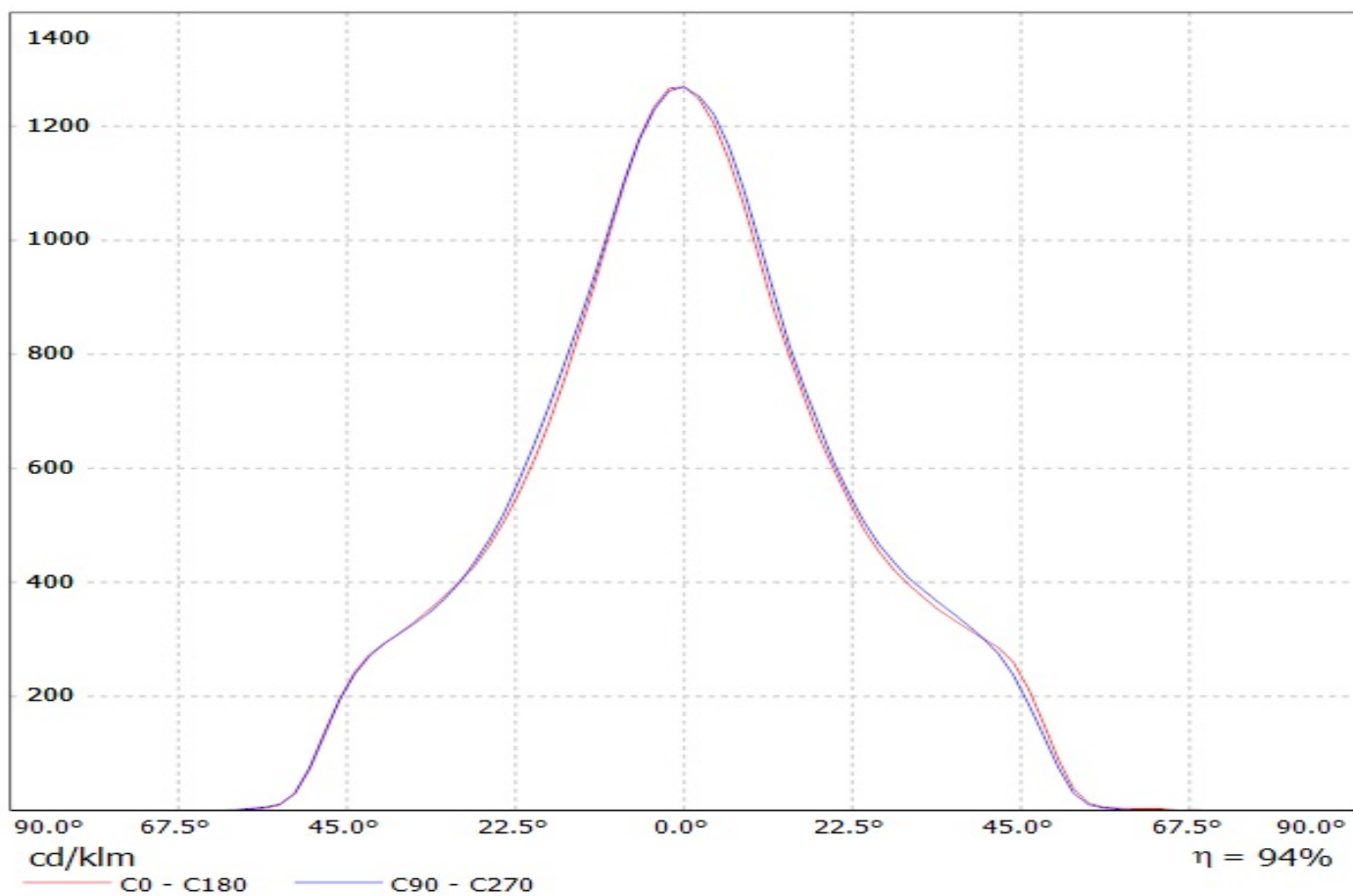


Luminaire: LEDiL Oy C13660_ANGELINA-M-B (BXRA_ES) Eff. 92%
Lamps: 1 x Bridgelux BXRA_ES_(QQ40_BXRA-W1202_1019A-2010) 268lm@250mA_P=3.36W_I=250mA

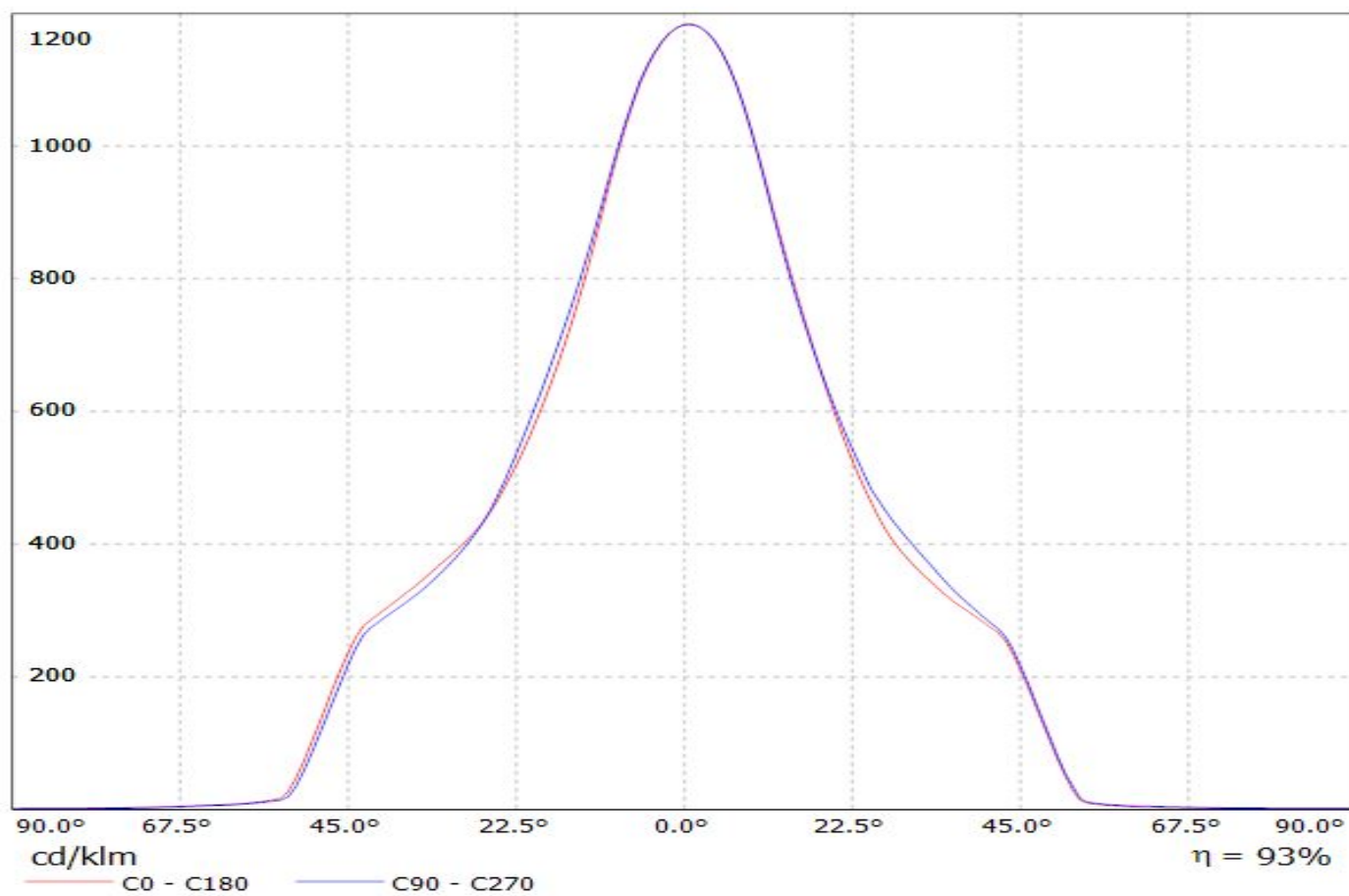


Luminaire: LEDil Oy F13660_ANGELINA-M-B_(CXM-14)

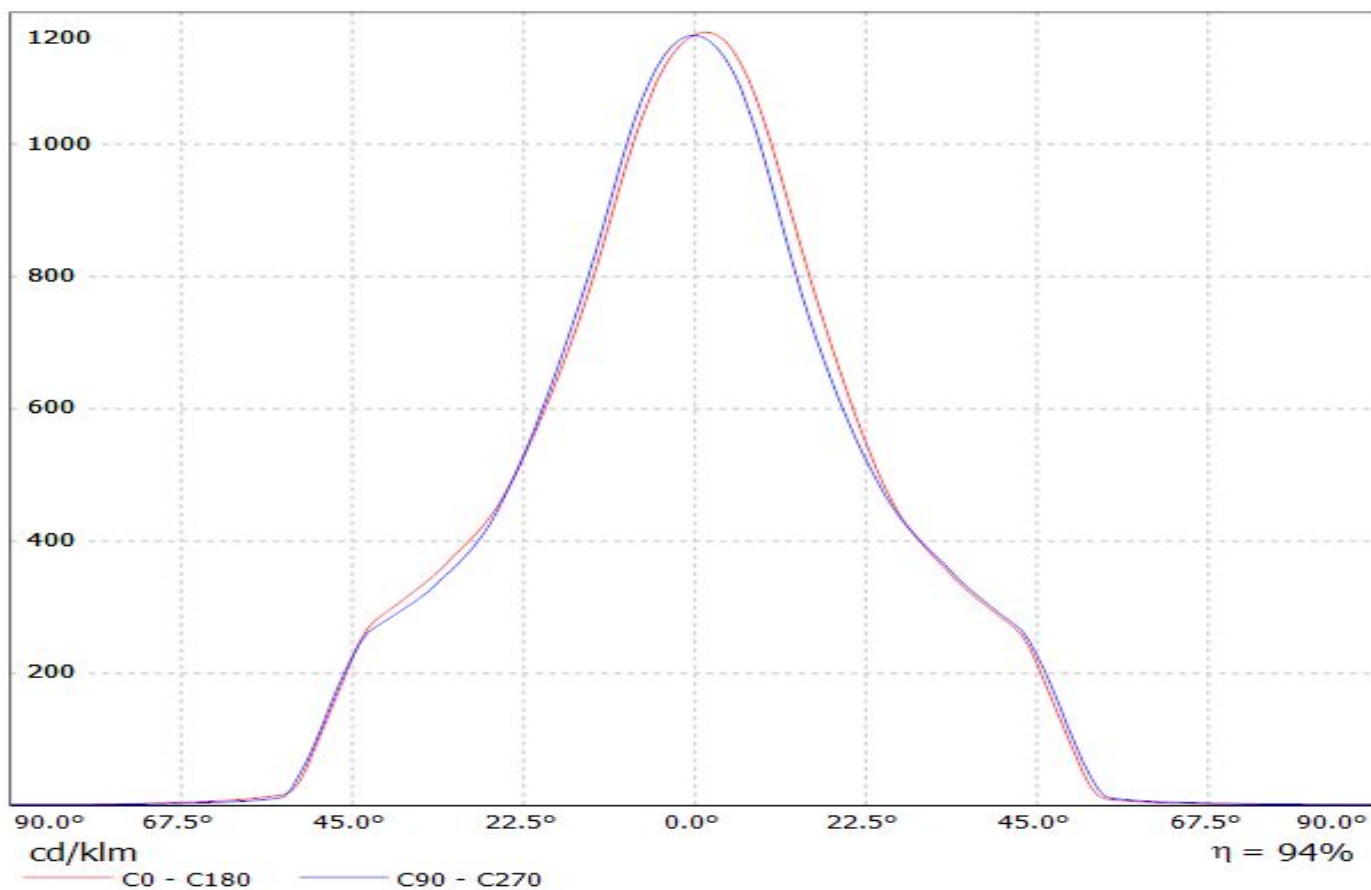
Lamps: 1 x Luminus CXM-14 (1078.95lm @ 250mA) CCT=3100K P=8.5W I=250mA



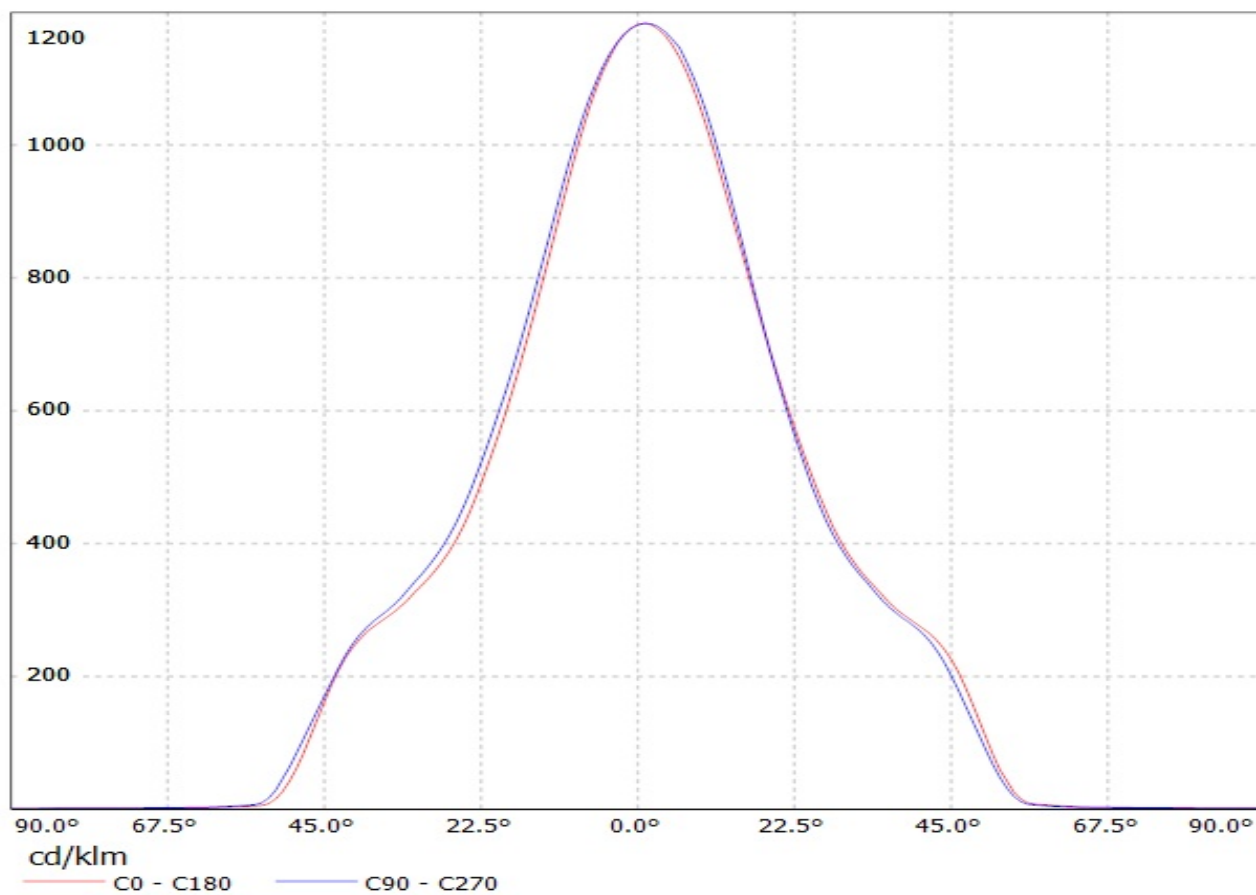
Luminaire: LEDiL Oy F13660_ANGELINA-M-B_(S19) Eff.93.3%
Lamps: 1 x Osram_SOLERIQ_S19_1434.85lm@250mA_P=10.5595W_I=249.8mA



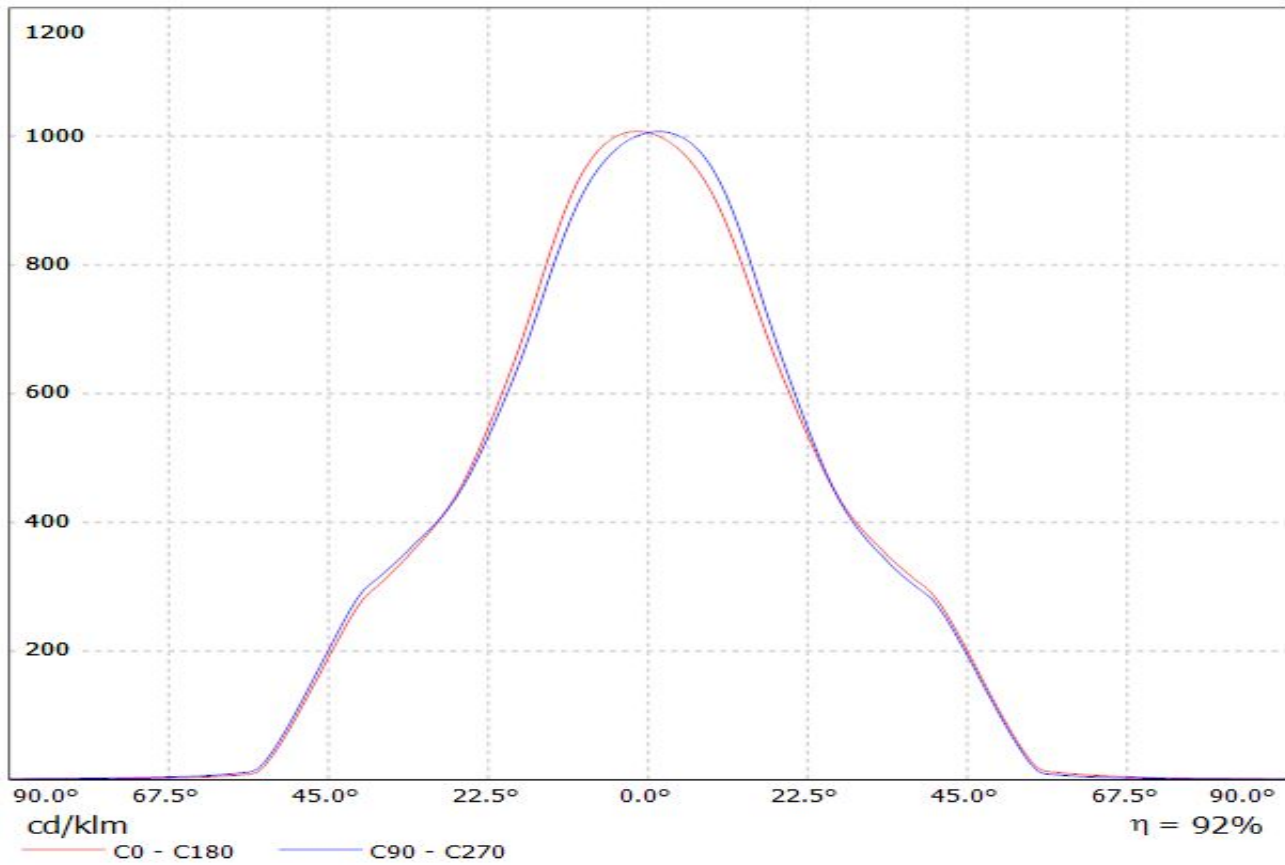
Luminaire: LEDiL Oy F13660_ANGELINA-M-B_(Soleriq S19) Eff.93.8%
Lamps: 1 x OSRAM_SOLERIQ_S19_(GW_KAHJB1.EM)
_1445.44lm@250mA_CCT=3000K_P=10.558W_I=249.8mA



Luminaire: LEDiL Oy C13660_ANGELINA-M-B_(Soleriq-E30) Eff. 90 %
Lamps: 1 x Osram Soleriq E30 (QW KAJRB2.EM-TPTR-50H4) 1358.6lm@250mA_P=10.2338W_I=0.2498mA



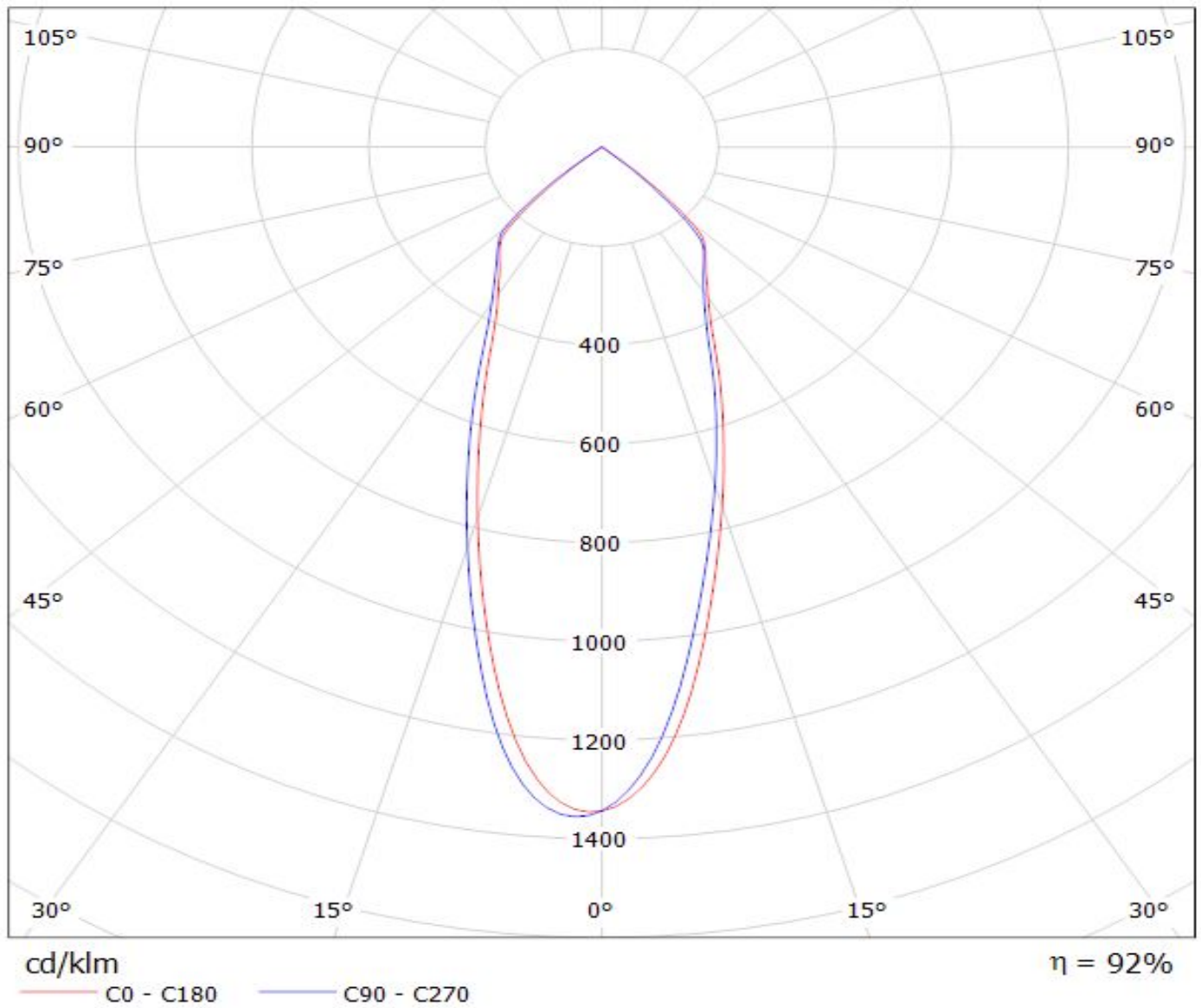
Luminaire: LEDiL Oy F13660_ANGELINA-M-B_(CXM-22) Eff.91.8%
Lamps: 1 x LUMINUS_CXM-22_1221.8lm@250mA_P=8.00809W_CCT=3000K_I=249.8mA



LEDiL Oy C13660_ANGELINA-M-B_(CLL030) Eff.91.7% / LDC (Polar)

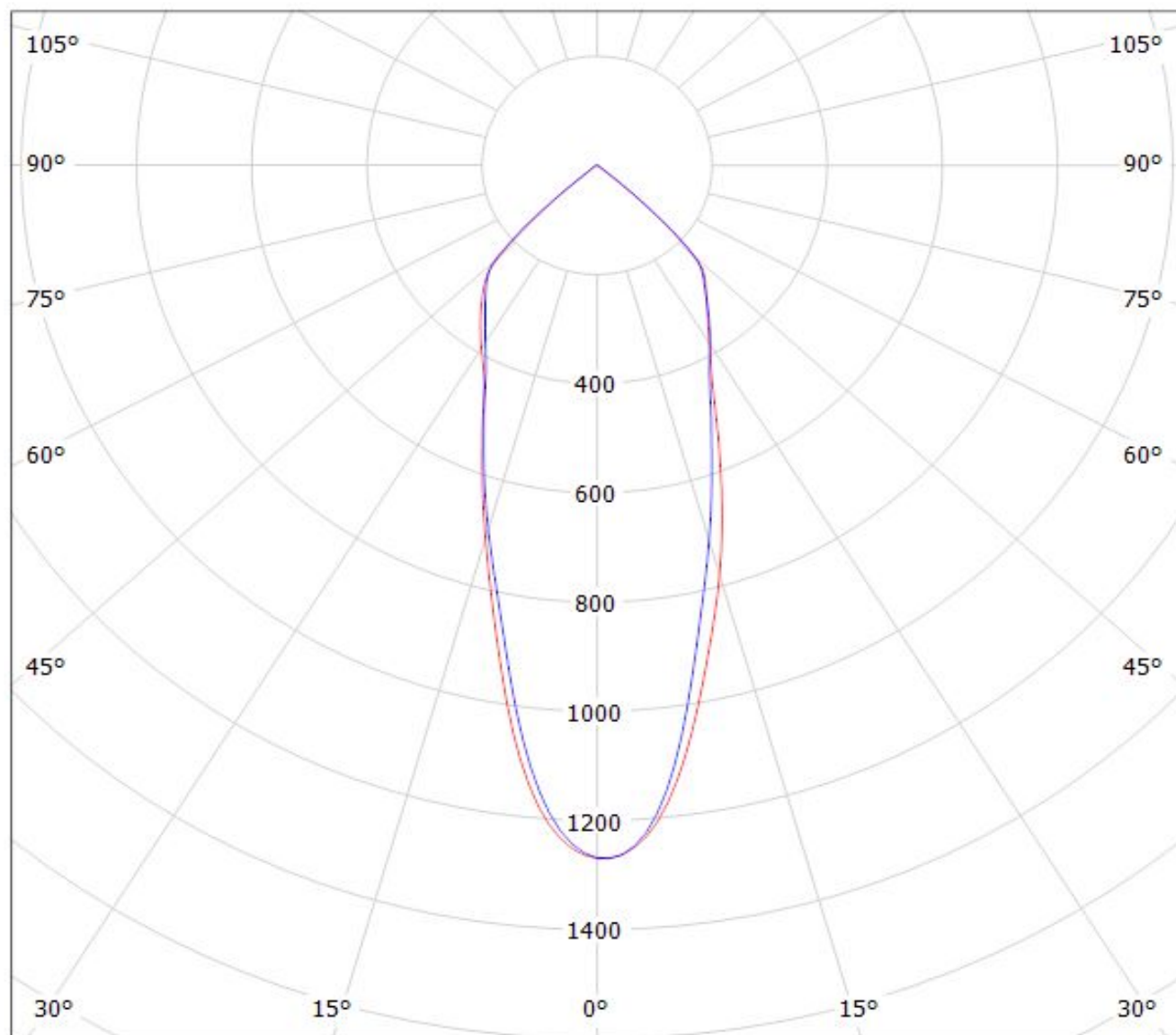
Luminaire: LEDiL Oy C13660_ANGELINA-M-B_(CLL030) Eff.91.7%

Lamps: 1 x CITIZEN_CLL030_(CLL030-1205A5-303H1A7) 797.292lm@250mA CCT=3000K P=8.65307W
I=249.8mA



Luminaire: LEDiL Oy F13660_ANGELINA-M-B_(Soleriq_S13) Eff.94.0%

Lamps: 1 x Osram_Soleriq_S13_825.418lm@250mA_CCT=3125K_P=7.33663W_I=249.8mA



cd/klm

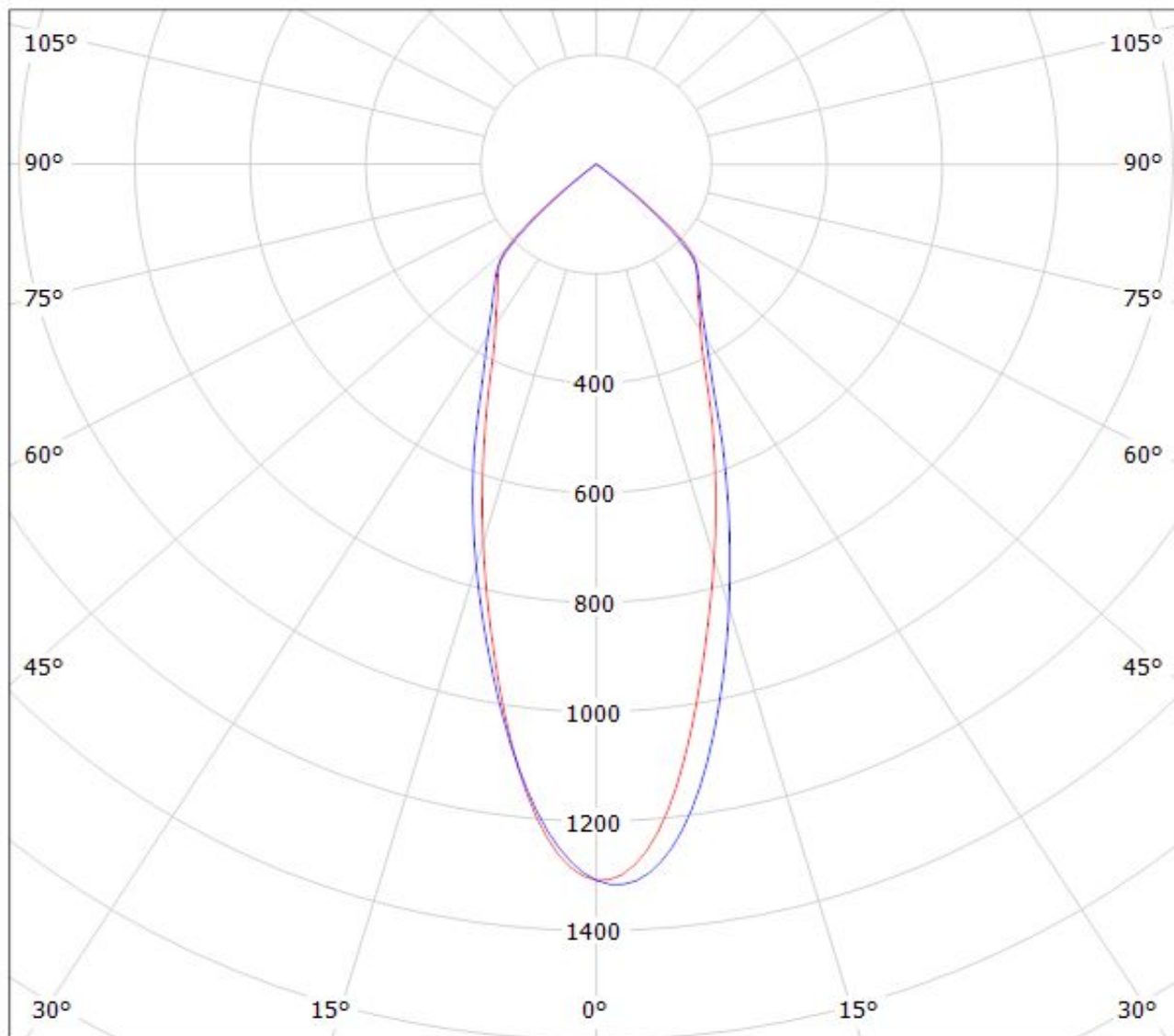
— C0 - C180

— C90 - C270

$\eta = 95\%$

Luminaire: LEDiL Oy C13660_ANGELINA-M-B_(BXRA_ES) Eff. 92%

Lamps: 1 x Bridgelux BXRA_ES_(QQ40_BXRA-W1202_1019A-2010) 268lm@250mA_P=3.36W_I=250mA



cd/klm

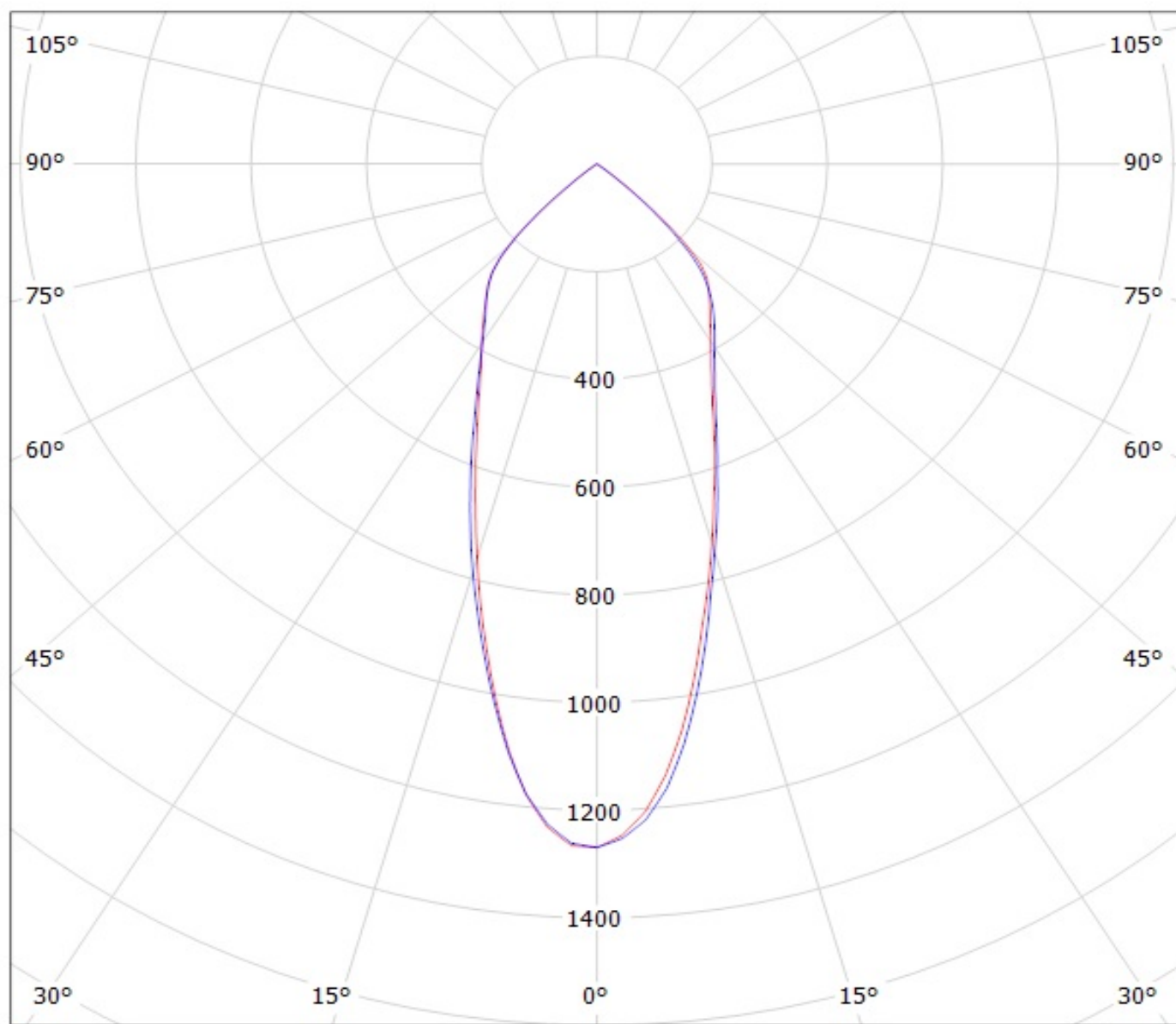
$\eta = 92\%$

— C0 - C180

— C90 - C270

Luminaire: LEDil Oy F13660_ANGELINA-M-B_(CXM-14)

Lamps: 1 x Luminus CXM-14 (1078.95lm @ 250mA) CCT=3100K P=8.5W I=250mA



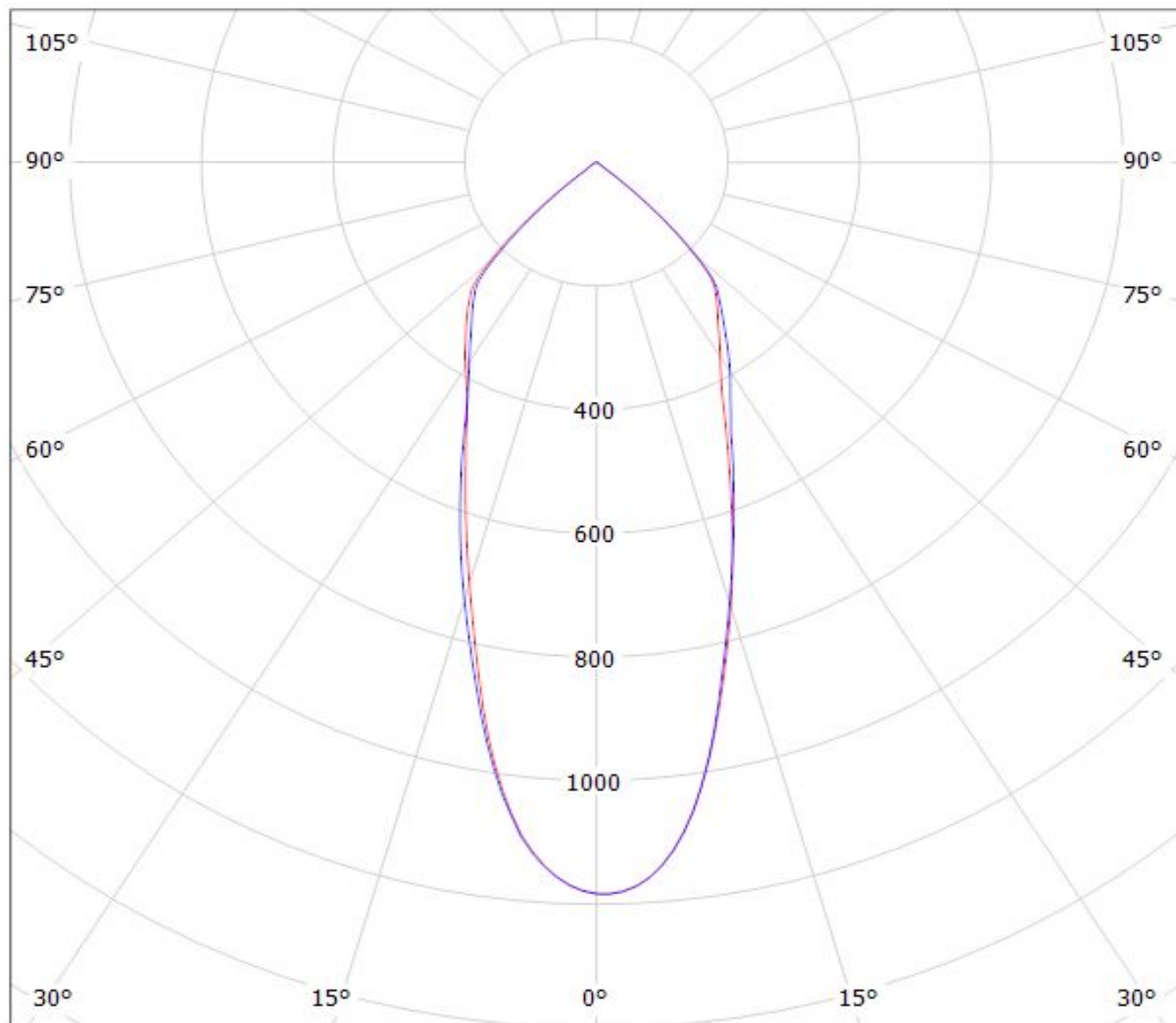
cd/klm

— C0 - C180

— C90 - C270

$\eta = 94\%$

Luminaire: LEDiL Oy F13660_ANGELINA-M-B_(S19) Eff.93.3%
Lamps: 1 x Osram_SOLERIQ_S19_1434.85lm@250mA_P=10.5595W_I=249.8mA

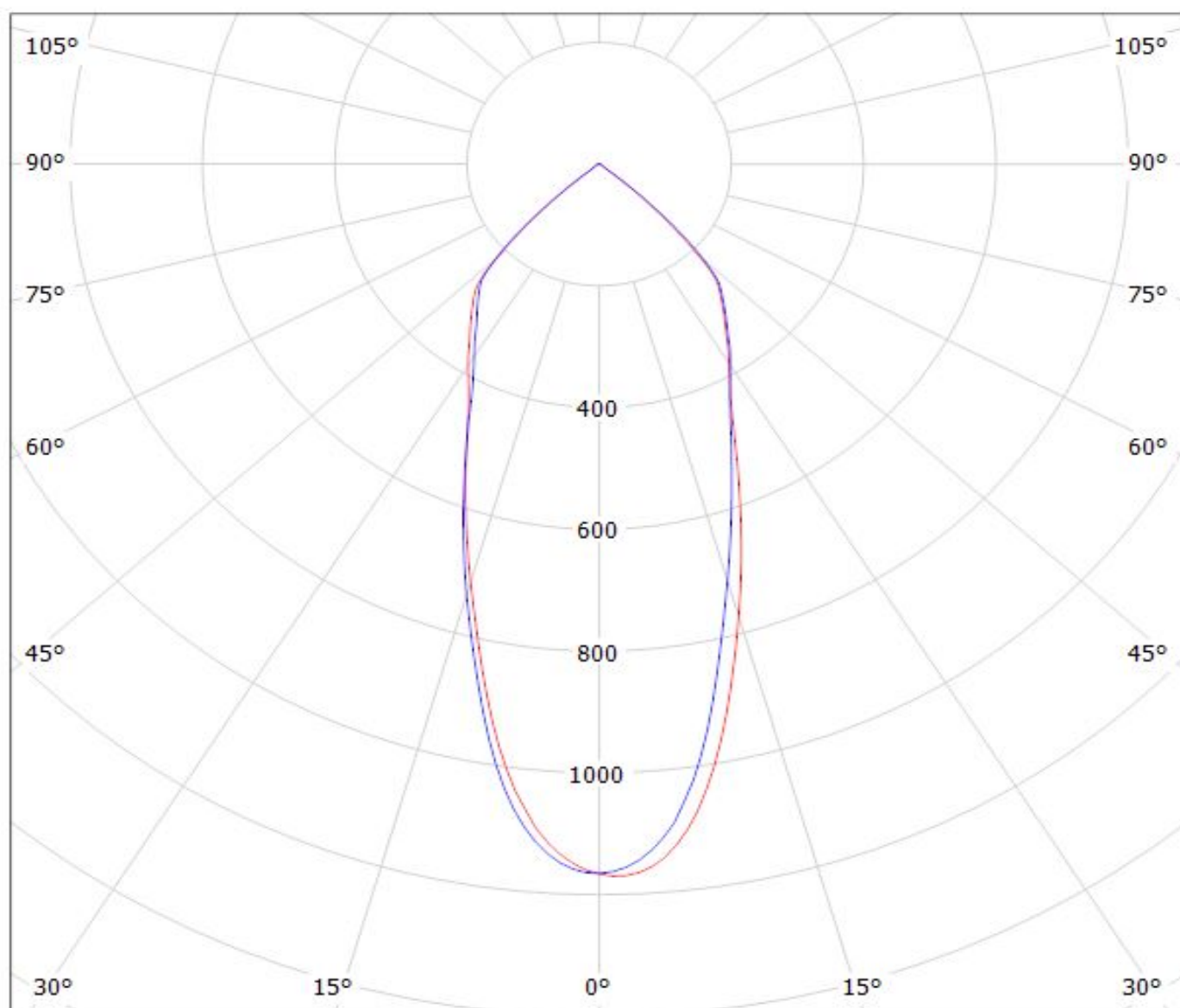


cd/klm

— C0 - C180 — C90 - C270

$\eta = 93\%$

Luminaire: LEDiL Oy F13660_ANGELINA-M-B_(Soleriq S19) Eff.93.8%
Lamps: 1 x OSRAM_SOLERIQ_S19_(GW_KAHJB1.EM)
_1445.44lm@250mA_CCT=3000K_P=10.558W_I=249.8mA

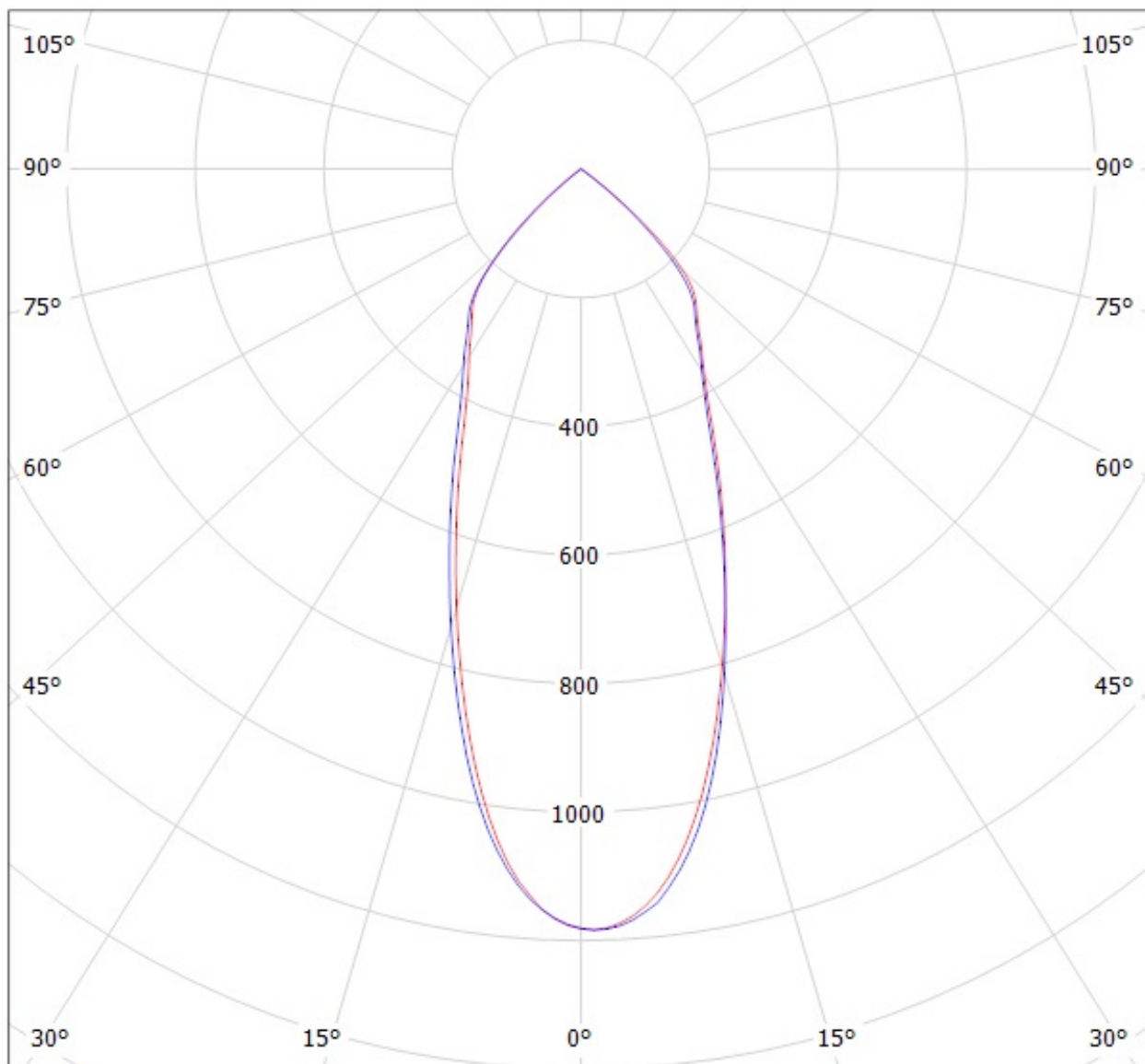


cd/klm

— C0 - C180 — C90 - C270

$\eta = 94\%$

Luminaire: LEDiL Oy C13660_ANGELINA-M-B_(Soleriq-E30) Eff: 90 %
Lamps: 1 x Osram Soleriq E30 (QW KAJRB2.EM-TPTR-50H4) 1358.6lm@250mA_P=10.2338W_I=0.2498mA

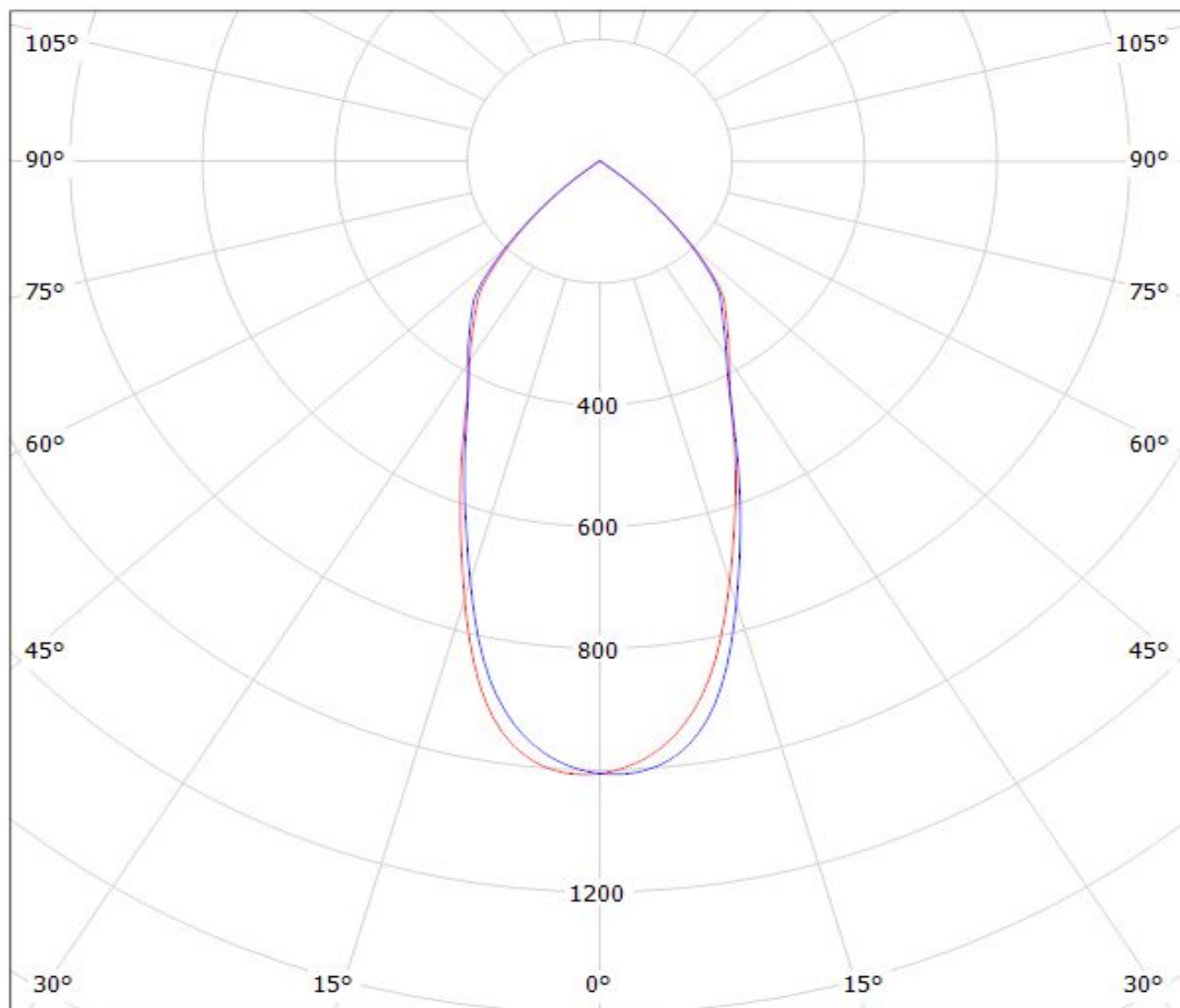


cd/klm

— C0 - C180

— C90 - C270

Luminaire: LEDiL Oy F13660_ANGELINA-M-B_(CXM-22) Eff.91.8%
Lamps: 1 x LUMINUS_CXM-22_1221.8lm@250mA_P=8.00809W_CCT=3000K_I=249.8mA



cd/klm

— C0 - C180

— C90 - C270

$\eta = 92\%$

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.