

**Ordering number C12095_MINNIE-M**

Family	Minnie	FWHM	21 degrees
Type	Reflector	Efficiency	90 %
LED	LUXEON M	cd/Im	3.000
Color	Metal	Gerber File	Available
Diameter	32.4 mm		
Height	14.75 mm		
Style	Round		
Optic Material	PC		
Holder Material	-		
Fastening	Glue		
Status	Ready		

**Ordering number CA12881_MINNIE-M**

Family	Minnie	FWHM	21 degrees
Type	Assembly	Efficiency	90 %
LED	LUXEON M	cd/Im	3.000
Color	Black	Gerber File	Available
Diameter	35 mm		
Height	15.8 mm		
Style	Round		
Optic Material	PC		
Holder Material	PC		
Fastening	Tape		
Status	Ready		

**Ordering number C11862_MINNIE-W**

Family	Minnie	FWHM	29 degrees
Type	Reflector	Efficiency	92 %
LED	LUXEON M	cd/Im	2.065
Color	Metal	Gerber File	Available
Diameter	32.4 mm		
Height	14.75 mm		
Style	Round		
Optic Material	PC		
Holder Material	-		
Fastening	Glue		
Status	Ready		

**Ordering number CA12882_MINNIE-W**

Family	Minnie	FWHM	29 degrees
Type	Assembly	Efficiency	92 %
LED	LUXEON M	cd/Im	2.065
Color	Black	Gerber File	Available
Diameter	35 mm		
Height	15.8 mm		
Style	Round		
Optic Material	PC		
Holder Material	PC		
Fastening	Tape		
Status	Ready		

**Ordering number C12097_MINNIE-WWW**

Family	Minnie	FWHM	63 degrees
Type	Reflector	Efficiency	92 %
LED	LUXEON M	cd/Im	0.869
Color	Metal	Gerber File	Available
Diameter	32.4 mm		
Height	14.75 mm		
Style	Round		
Optic Material	PC		
Holder Material	-		
Fastening	Glue		
Status	Ready		

Ordering number CA12883_MINNIE-WWW

Family	Minnie	FWHM	63 degrees
Type	Assembly	Efficiency	92 %
LED	LUXEON M	cd/Im	0.869
Color	Black	Gerber File	Available
Diameter	35 mm		
Height	15.8 mm		
Style	Round		
Optic Material	PC		
Holder Material	PC		
Fastening	Tape		
Status	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

Minnie series

last update 4/2/2013

PHILIPS
LUMILEDS

GENERAL INFORMATION

- Product series especially designed & optimized for LUXEON M 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 (110 degrees of Celcius / 230 degrees of Fahrenheit).
 - Optic holder molded by high quality PC material (120 dergees of Celcius / 248 degrees of Fahrenheit).
- Fastening to heat sink with a PU foam adhesive tape of automotive grade. Please find fastening details by clicking link: http://www.ledil.com/datasheets/DataSheet_TAPE.pdf

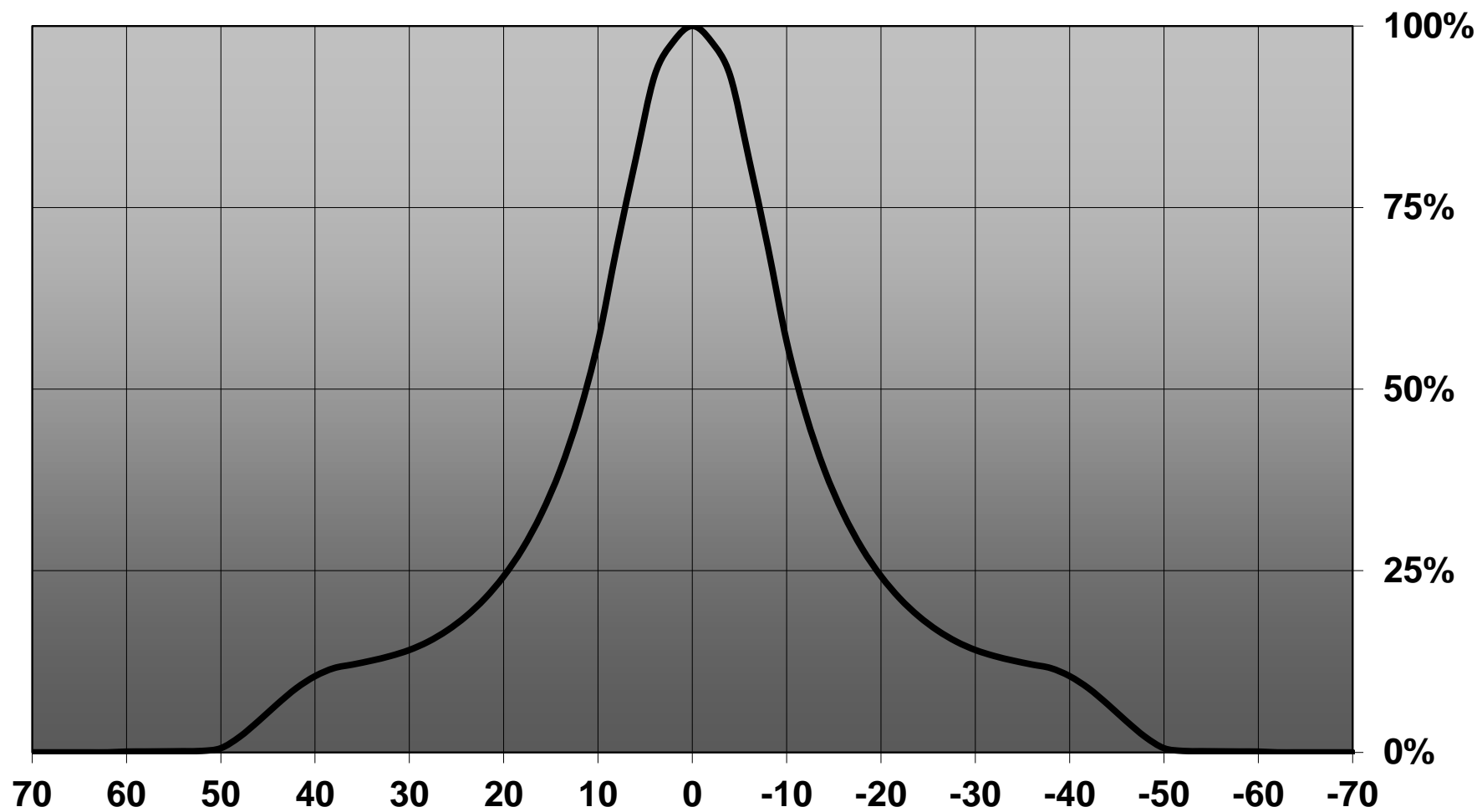
NOTE 1: We advise customer to ensure the suitability and sufficiency of the bond in the end product. For example, mechanical stress, vibration and holes on the surface of the circuit boar weaken the strength of the tape.

NOTE 2: Assembly to the surface must be made straight, so the tape bonds constant and balanced with fastening surface. Slanted assembly might cause unbalanced bond to the surface. All surfaces where tape is applied must be clean, dry and free from grease and dirt.

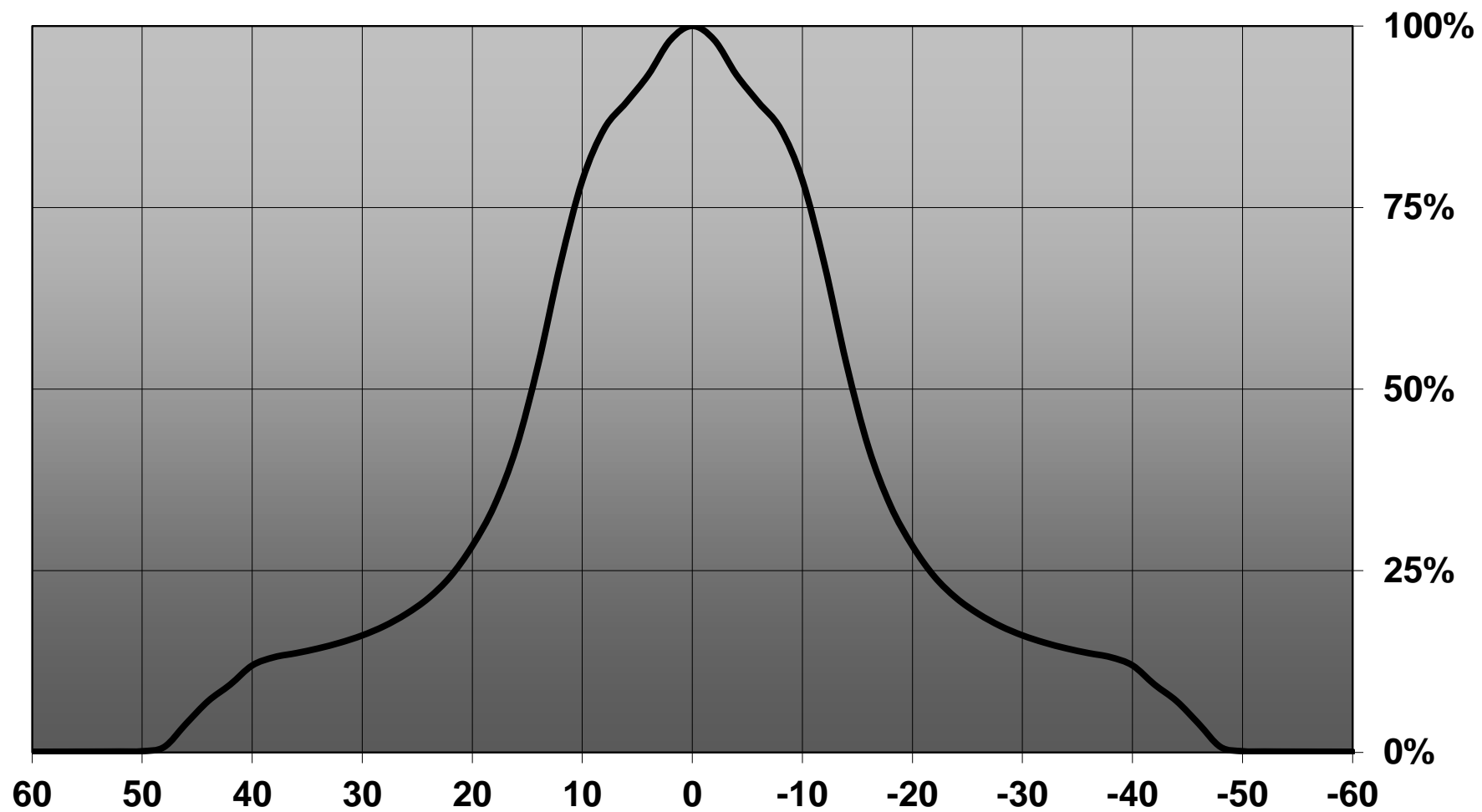
If cleaning of PCB surfaces is needed, please follow strictly the cleaning instructions of your LED manufacturer - this is important as cleaning shall under no circumstances damage LEDs or other electronics components on the PCB.

Further note that optical components shall not be cleaned with any chemicals - only micro fiber cloth may be used to remove fingerprints or other traces from handling.

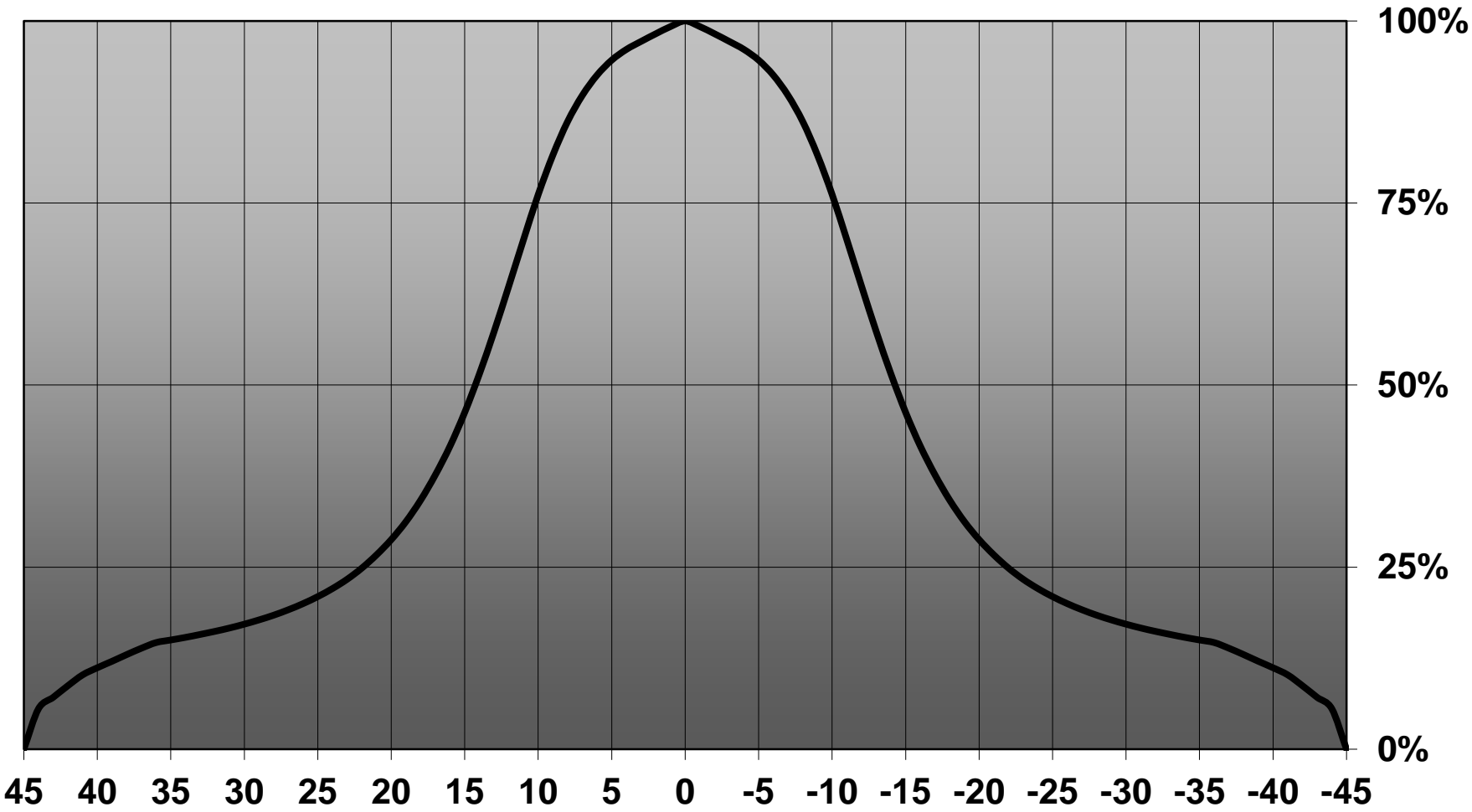
Relative intensity of C12095_MINNIE-M (Luxeon M)



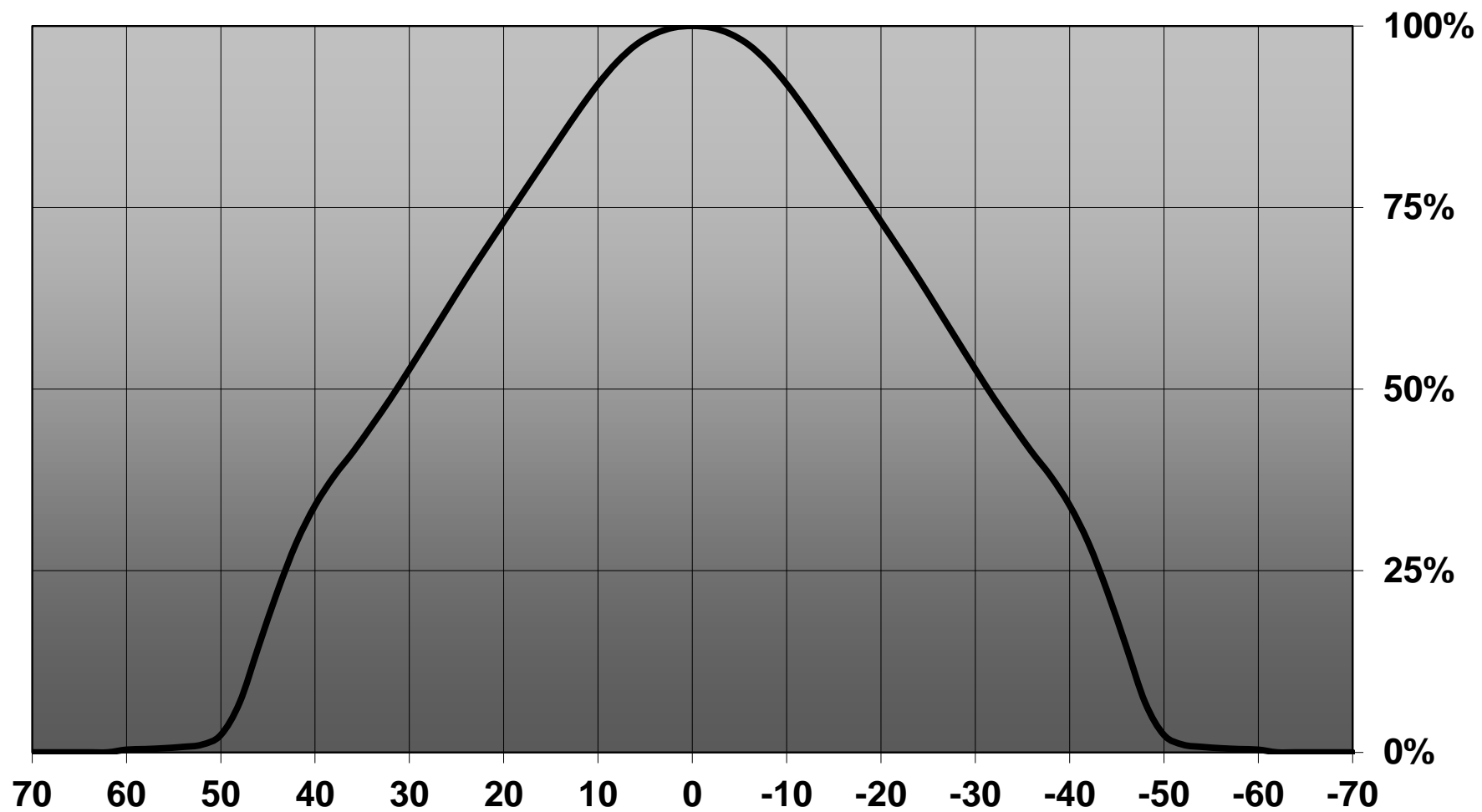
Relative intensity of C11862_MINNIE-W (Luxeon M)



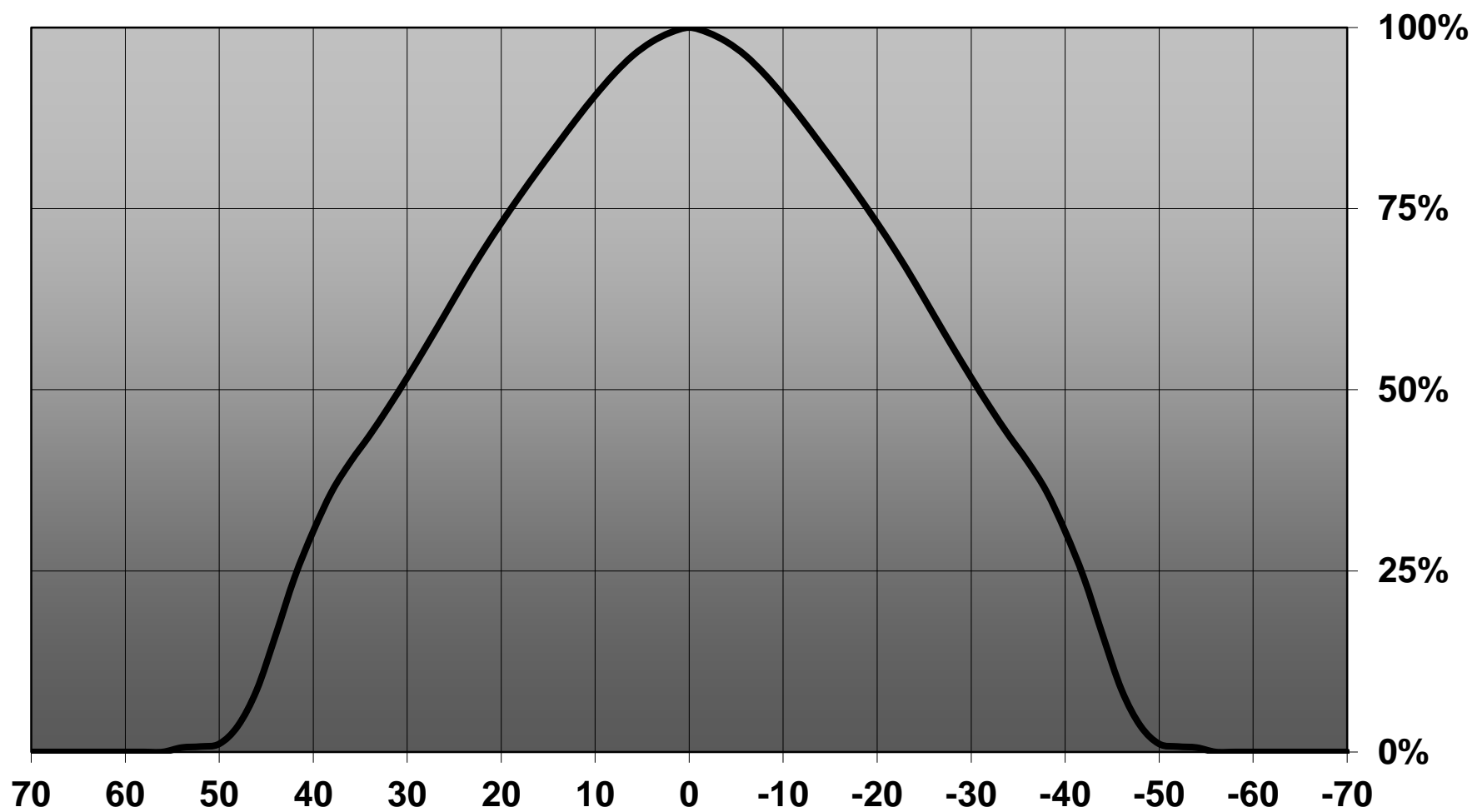
Relative intensity of CA12882_MINNIE-W-LuxM



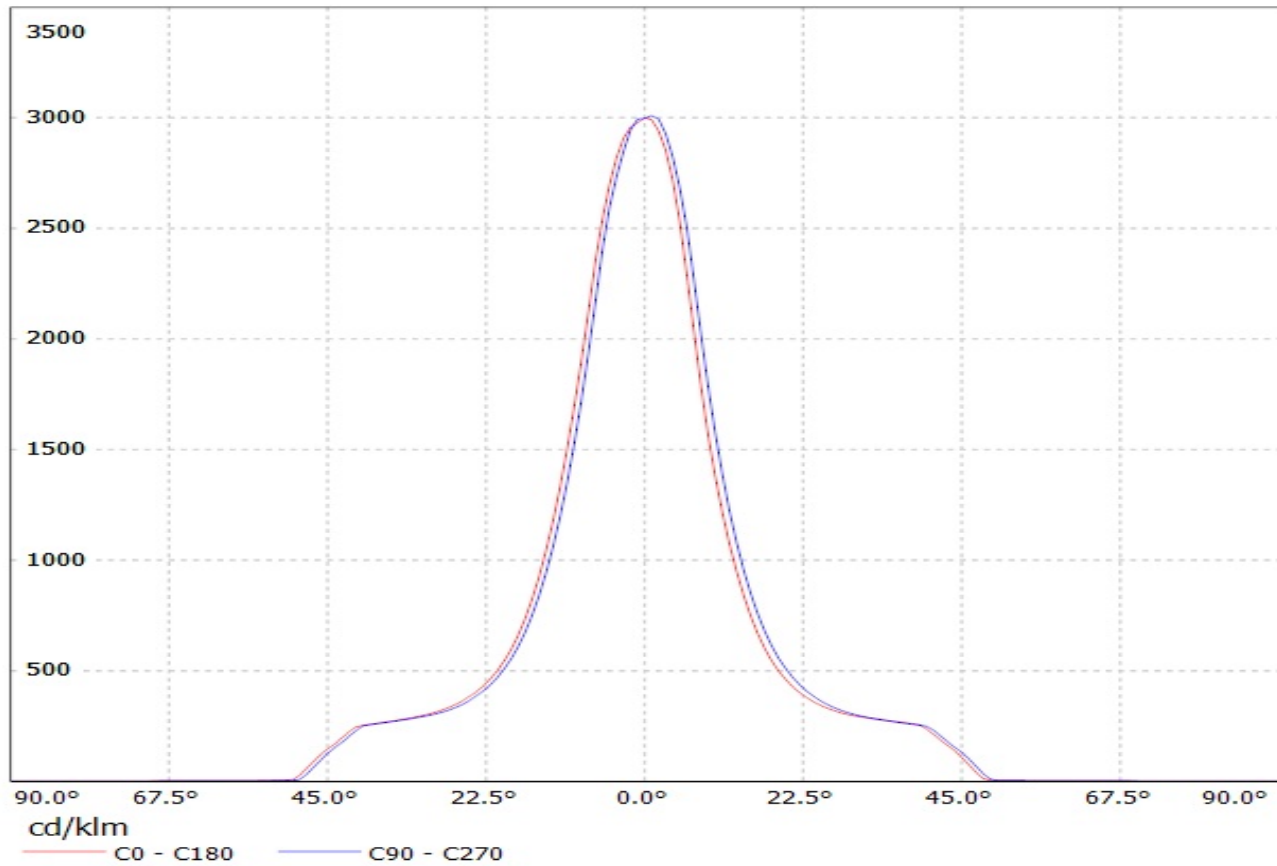
Relative intensity of C12097_MINNIE-WWW (Luxeon M)



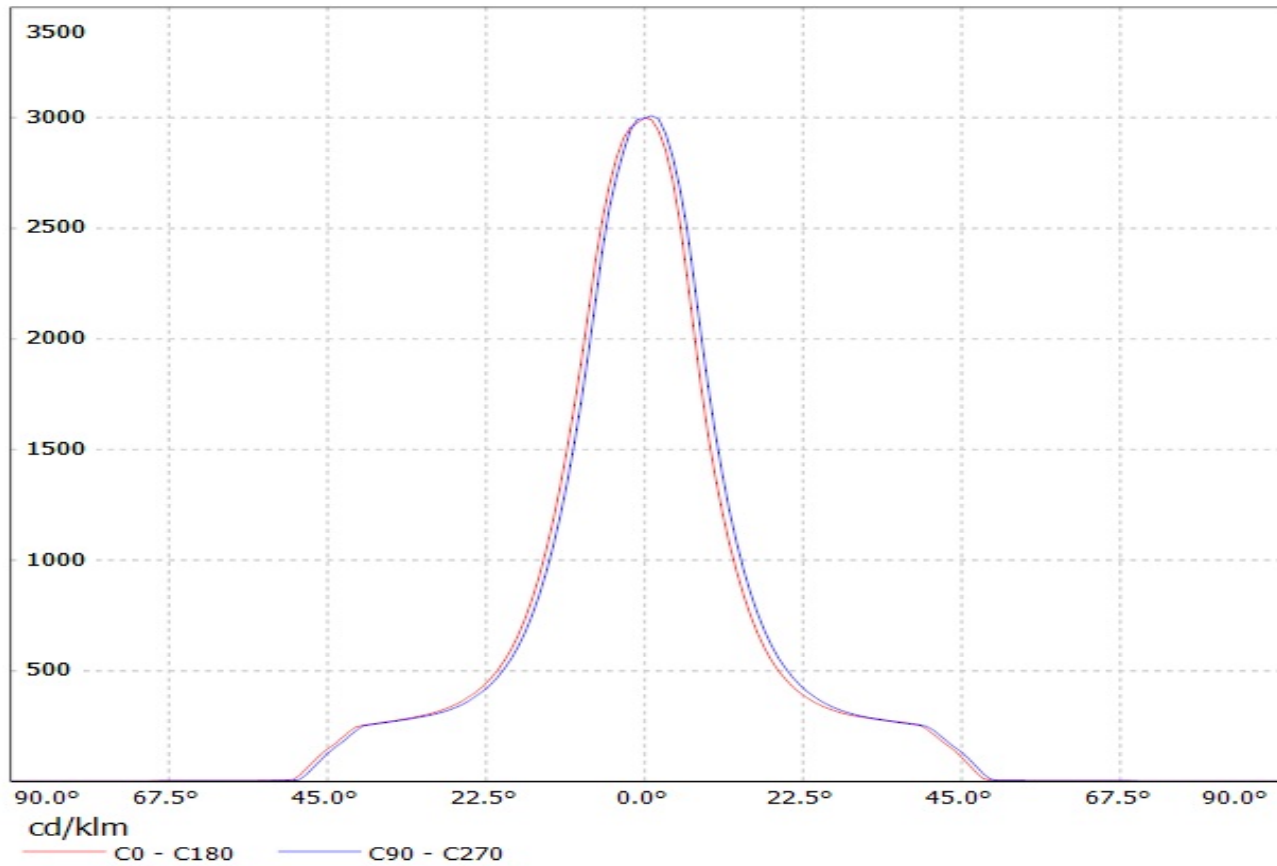
Relative intensity of CA12883_MINNIE-WWW-LuxM



Luminaire: LEDIL OY C12095_MINNIE-M / CA12881_MINNIE-M (Luxeon M) Efficiency=90%
Lamps: 1 x Luxeon M (362lm @ 250mA)

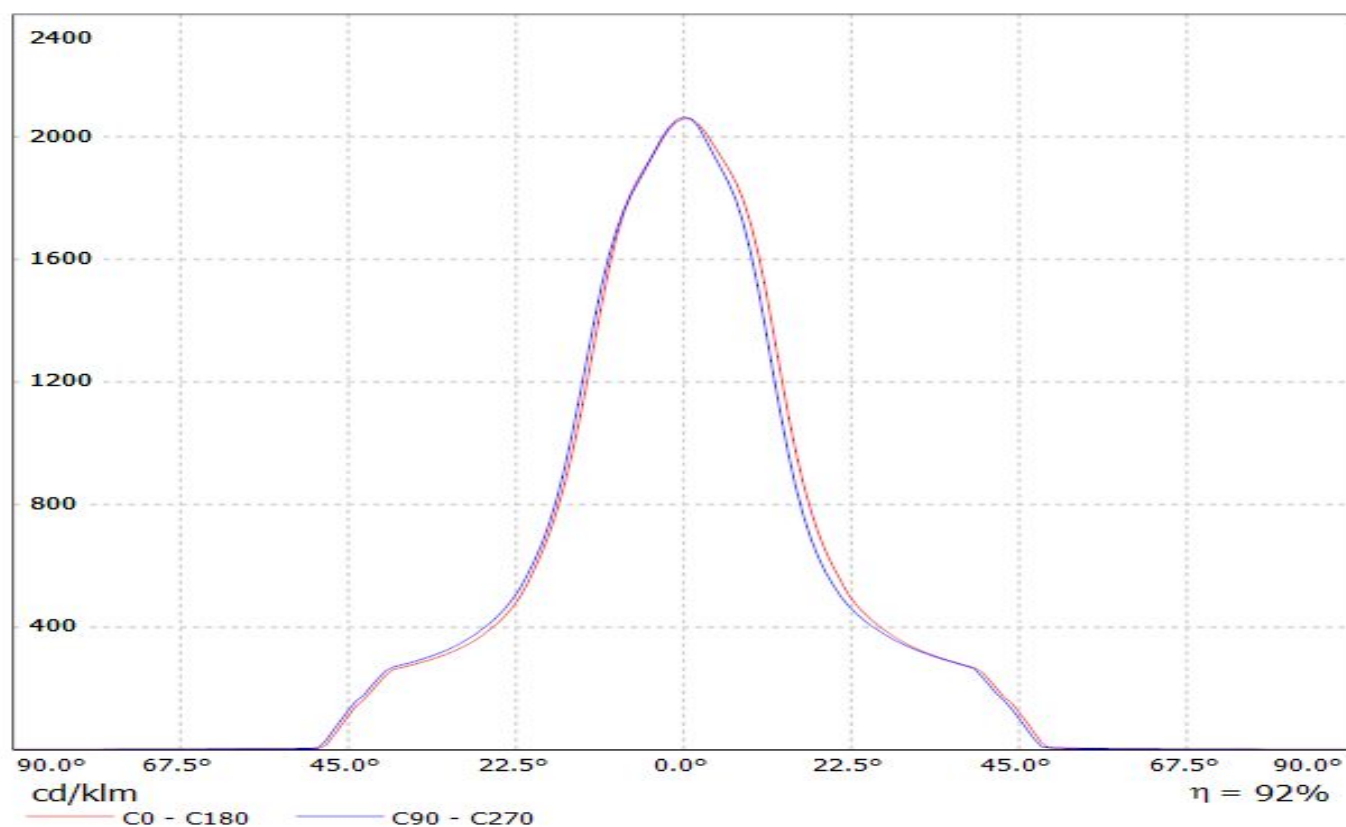


Luminaire: LEDIL OY C12095_MINNIE-M / CA12881_MINNIE-M (Luxeon M) Efficiency=90%
Lamps: 1 x Luxeon M (362lm @ 250mA)



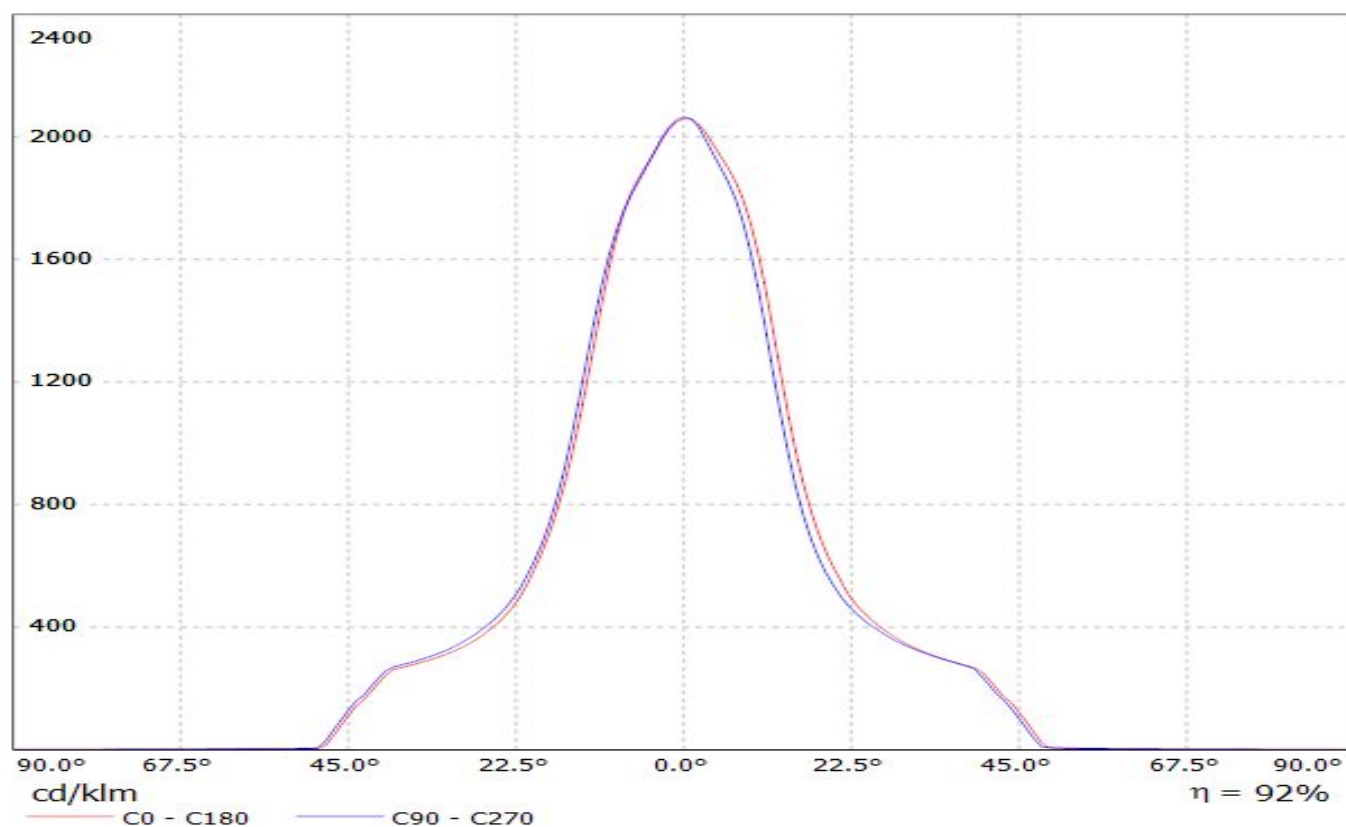
LEDIL OY C11862_MINNIE-W_(LUXEON-M) 91.9% / LDC (Linear)

Luminaire: LEDIL OY C11862_MINNIE-W_(LUXEON-M) 91.9%
Lamps: 1 x LUXEON-M



LEDIL OY C11862_MINNIE-W_(LUXEON-M) 91.9% / LDC (Linear)

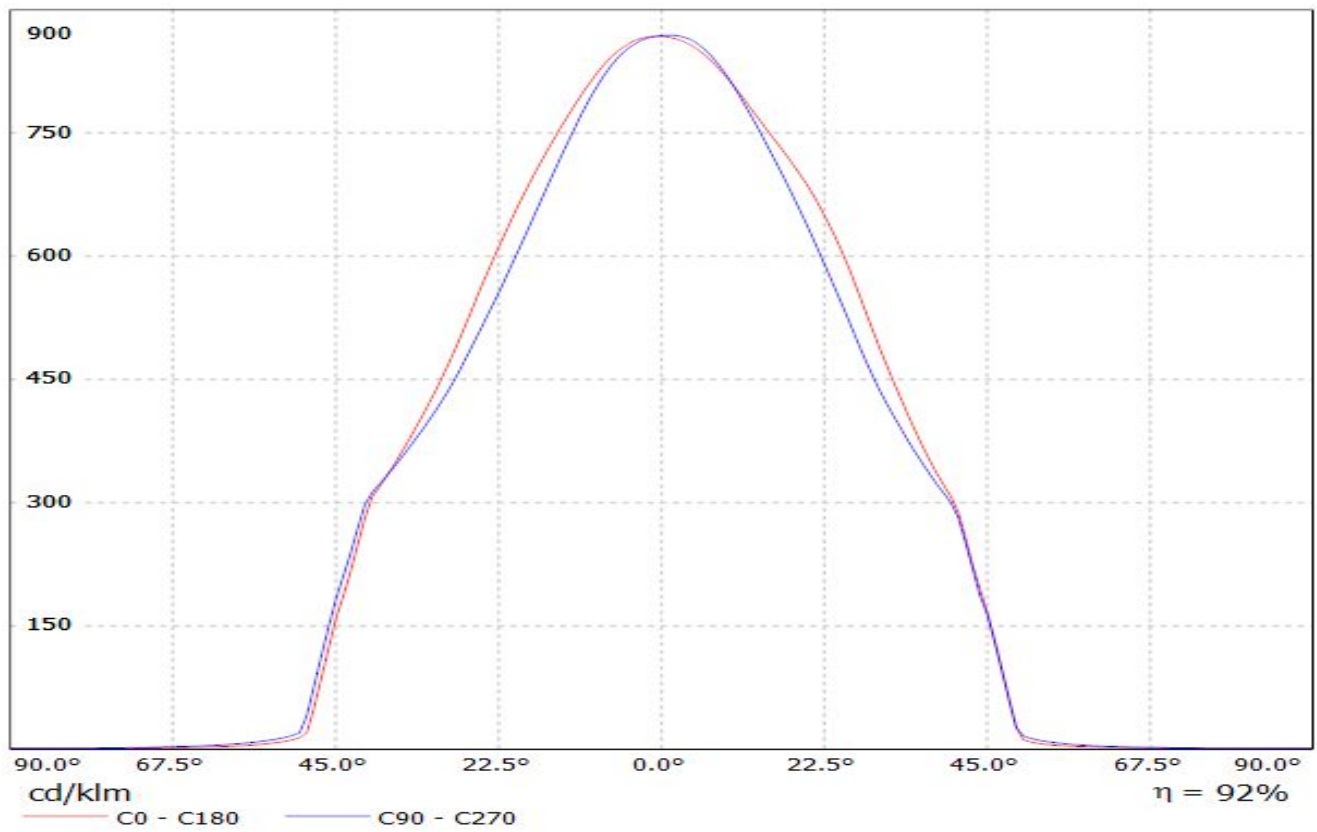
Luminaire: LEDIL OY C11862_MINNIE-W_(LUXEON-M) 91.9%
Lamps: 1 x LUXEON-M



LEDIL OY C12097_MINNIE-WWW_(LUXEON-M) 91.6% / LDC (Linear)

Luminaire: LEDIL OY C12097_MINNIE-WWW_(LUXEON-M) 91.6%

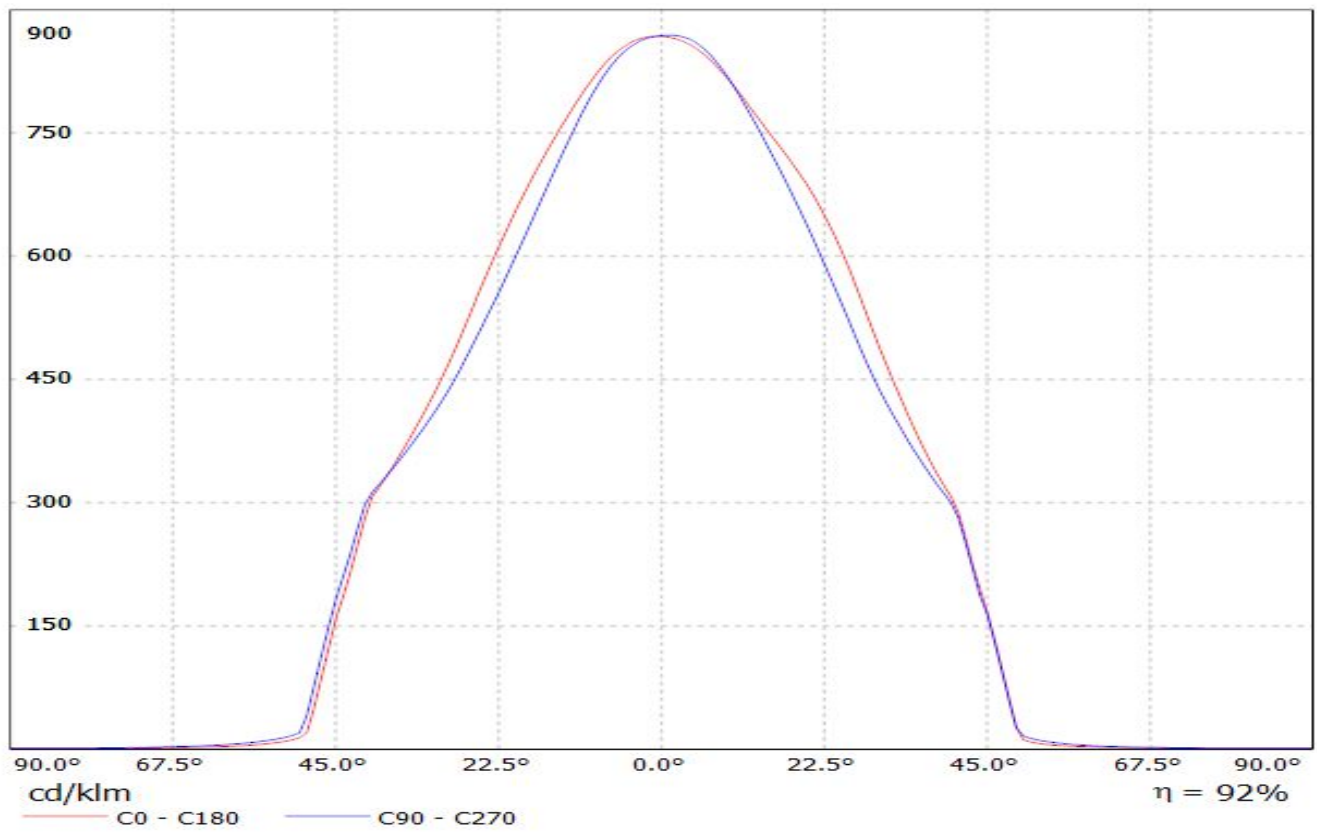
Lamps: 1 x LUXEON-M



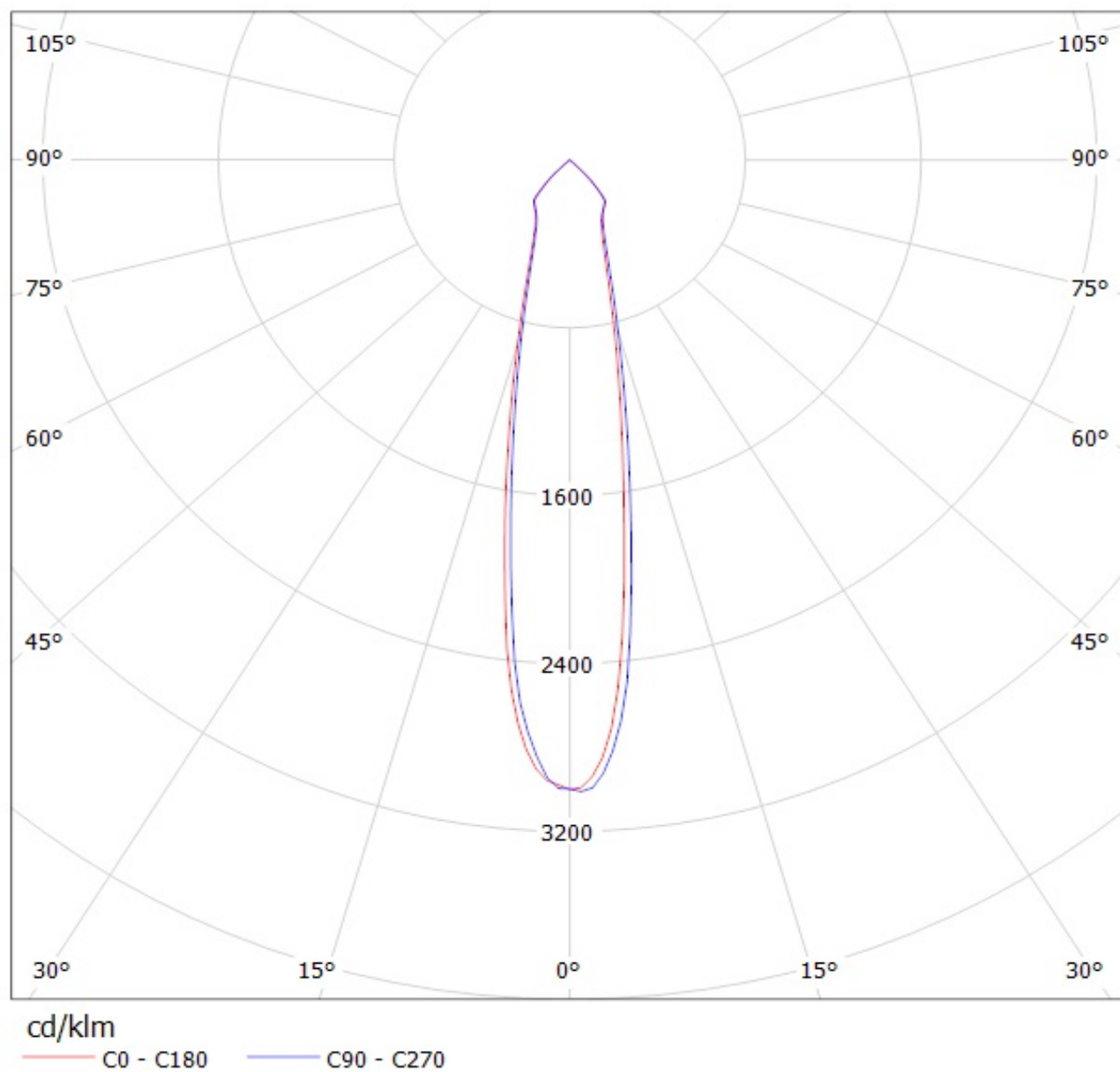
LEDIL OY C12097_MINNIE-WWW_(LUXEON-M) 91.6% / LDC (Linear)

Luminaire: LEDIL OY C12097_MINNIE-WWW_(LUXEON-M) 91.6%

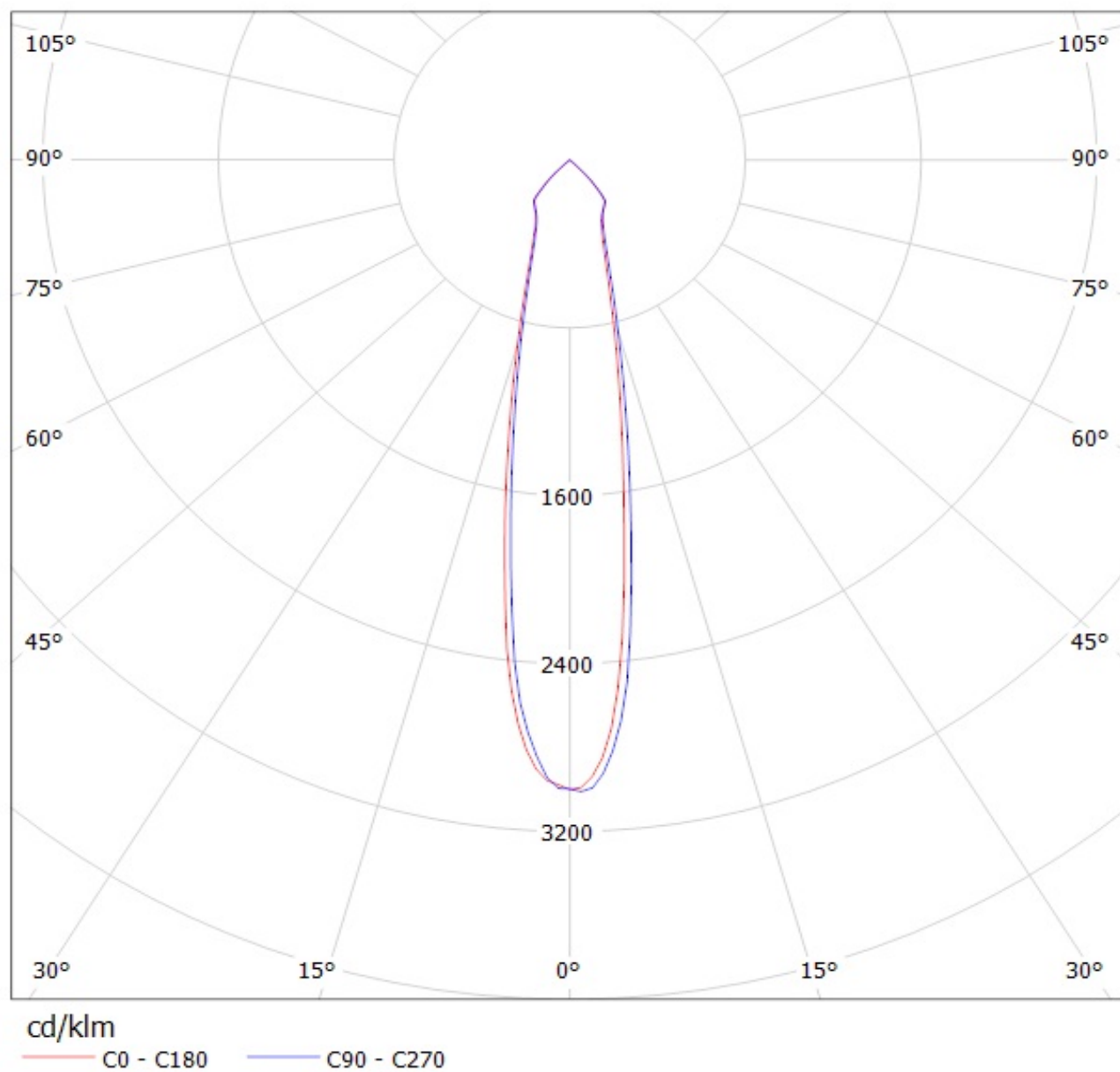
Lamps: 1 x LUXEON-M



Luminaire: LEDIL OY C12095_MINNIE-M / CA12881_MINNIE-M (Luxeon M) Efficiency=90%
Lamps: 1 x Luxeon M (362lm @ 250mA)



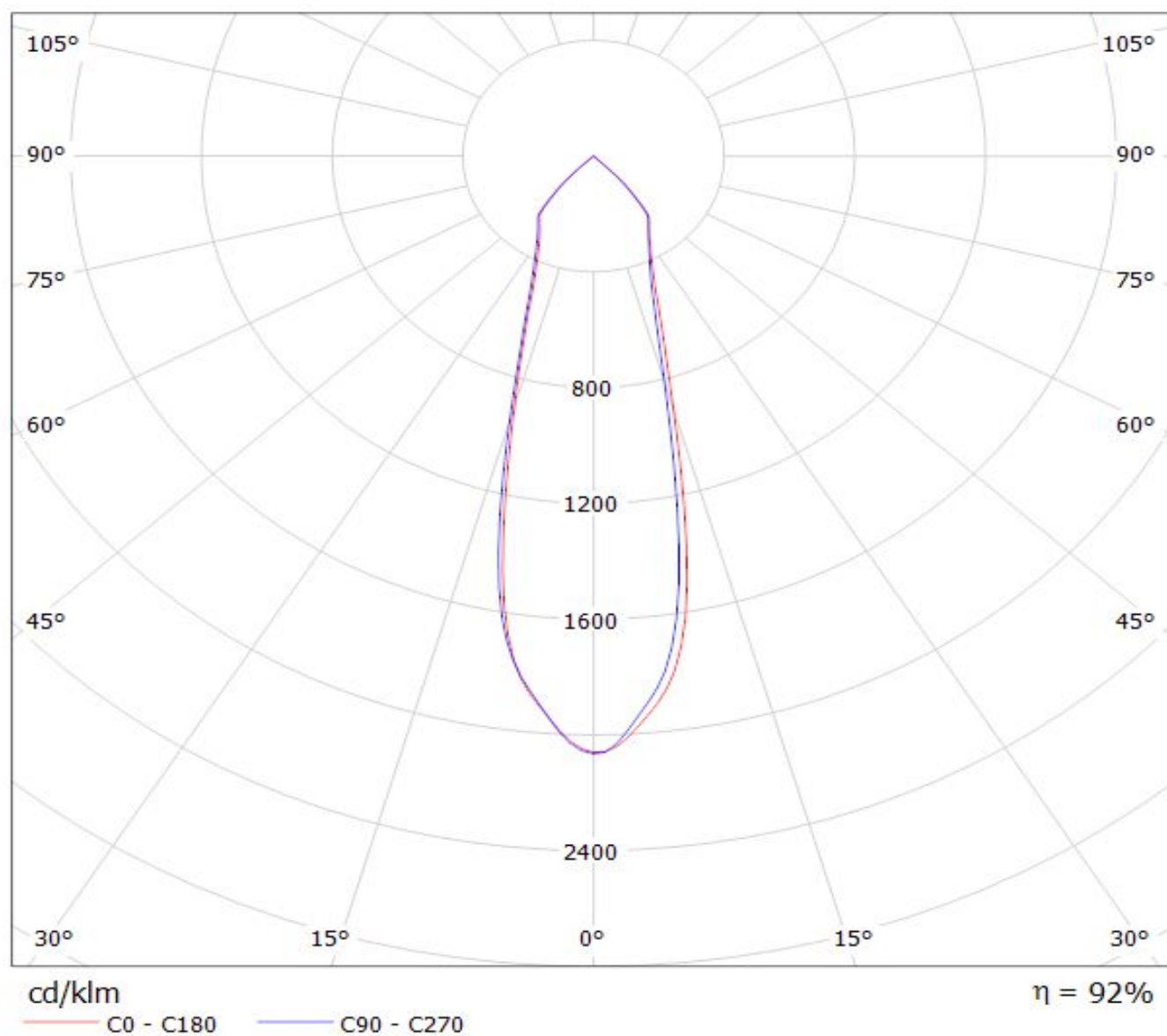
Luminaire: LEDIL OY C12095_MINNIE-M / CA12881_MINNIE-M (Luxeon M) Efficiency=90%
Lamps: 1 x Luxeon M (362lm @ 250mA)



LEDIL OY C11862_MINNIE-W_(LUXEON-M) 91.9% / LDC (Polar)

Luminaire: LEDIL OY C11862_MINNIE-W_(LUXEON-M) 91.9%

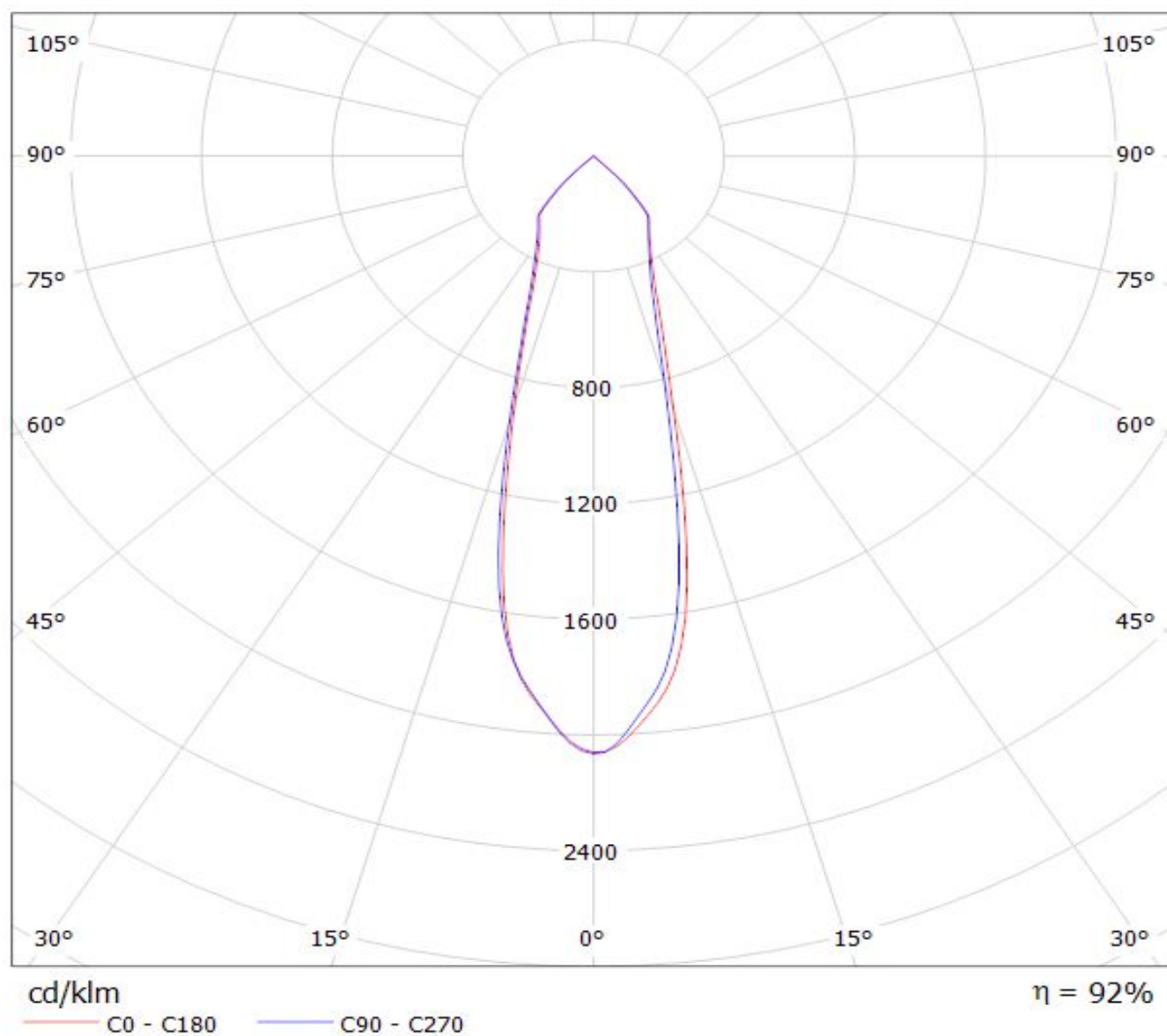
Lamps: 1 x LUXEON-M



LEDIL OY C11862_MINNIE-W_(LUXEON-M) 91.9% / LDC (Polar)

Luminaire: LEDIL OY C11862_MINNIE-W_(LUXEON-M) 91.9%

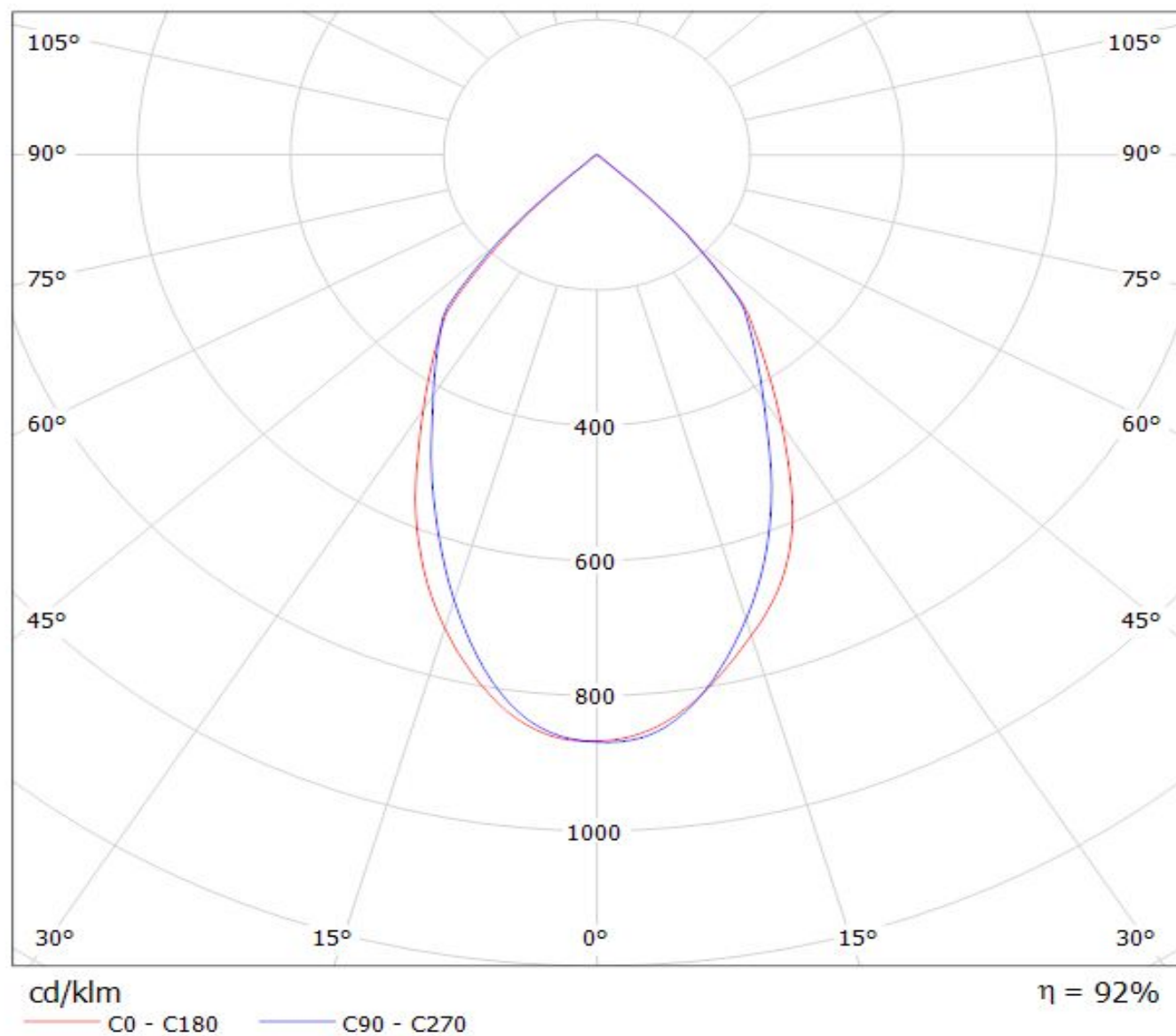
Lamps: 1 x LUXEON-M



LEDIL OY C12097_MINNIE-WWW_(LUXEON-M) 91.6% / LDC (Polar)

Luminaire: LEDIL OY C12097_MINNIE-WWW_(LUXEON-M) 91.6%

Lamps: 1 x LUXEON-M



LEDIL OY C12097_MINNIE-WWW_(LUXEON-M) 91.6% / LDC (Polar)

Luminaire: LEDIL OY C12097_MINNIE-WWW_(LUXEON-M) 91.6%

Lamps: 1 x LUXEON-M

