

**Ordering number C13012\_FLARE-MAXI-D**

Family	Flare	FWHM	14+117 degrees
Type	Lens	Efficiency	94 %
LED	XT-E	cd/lm	1.900
Color	Clear	Gerber File	Available
Diameter	33.9 + 33.3 mm		
Height	16.7 mm		
Style	Rectang		
Optic Material	PMMA		
Holder Material	-		
Fastening	Pin, glue		
Status	Ready		

**Ordering number C12763\_FLARE-MINI-A**

Family	Flare	FWHM	19+95 degrees
Type	Lens	Efficiency	94 %
LED	XT-E	cd/lm	1.200
Color	Clear	Gerber File	Available
Diameter	16 mm		
Height	8.6 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	-		
Fastening	Glue		
Status	Ready		

**Ordering number C12837\_FLARE-MINI-A-PIN**

Family	Flare	FWHM	19+95 degrees
Type	Lens	Efficiency	94 %
LED	XT-E	cd/lm	1.200
Color	Clear	Gerber File	Available
Diameter	16 mm		
Height	8.6 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	-		
Fastening	Pin, glue		
Status	Ready		

**Ordering number CA12764\_FLARE-MINI-A**

Family	Flare	FWHM	22+124 degrees
Type	Assembly	Efficiency	94 %
LED	XT-E	cd/lm	0.700
Color	Clear	Gerber File	Available
Diameter	16 mm		
Height	9.1 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	-		
Fastening	Tape		
Status	Ready		


**Ordering number CA12838\_FLARE-MINI-A-PIN**

Family	Flare	FWHM	22+124 degrees
Type	Assembly	Efficiency	94 %
LED	XT-E	cd/lm	0.700
Color	Clear	Gerber File	Available
Diameter	16 mm		
Height	9.1 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	-		
Fastening	Pin, tape		
Status	Ready		


**Ordering number C12868\_FLARE-MAXI**

Family	Flare	FWHM	96+10 degrees
Type	Lens	Efficiency	94 %
LED	XT-E	cd/lm	2.500
Color	Clear	Gerber File	Available
Diameter	33.9 + 33.3 mm		
Height	16.7 mm		
Style	Rectang		
Optic Material	PMMA		
Holder Material	-		
Fastening	Pin, glue		
Status	Ready		


**Ordering number C13015\_FLARE-MINI-AD**

Family	Flare	FWHM	104+19 degrees
Type	Lens	Efficiency	94 %
LED	XT-E	cd/lm	1.100
Color	Clear	Gerber File	Available
Diameter	16 mm		
Height	8.6 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	-		
Fastening	Glue		
Status	Ready		


**Ordering number C13016\_FLARE-MINI-AD-PIN**

Family	Flare	FWHM	104+19 degrees
Type	Lens	Efficiency	94 %
LED	XT-E	cd/lm	1.100
Color	Clear	Gerber File	Available
Diameter	16 mm		
Height	8.6 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	-		
Fastening	Pin, glue		
Status	Ready		


**Ordering number CA13057\_FLARE-MINI-AD**

Family	Flare	FWHM	104+19 degrees
Type	Assembly	Efficiency	94 %
LED	XT-E	cd/lm	1.100
Color	Clear	Gerber File	Available
Diameter	16 mm		
Height	9.1 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	-		
Fastening	Tape		
Status	Ready		

**Ordering number CA13058\_FLARE-MINI-AD-PIN**

Family	Flare	FWHM	104+19 degrees
Type	Assembly	Efficiency	94 %
LED	XT-E	cd/lm	1.100
Color	Clear	Gerber File	Available
Diameter	16 mm		
Height	9.1 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	-		
Fastening	Pin, 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

## Flare series

last update 10/1/2013

### GENERAL INFORMATION

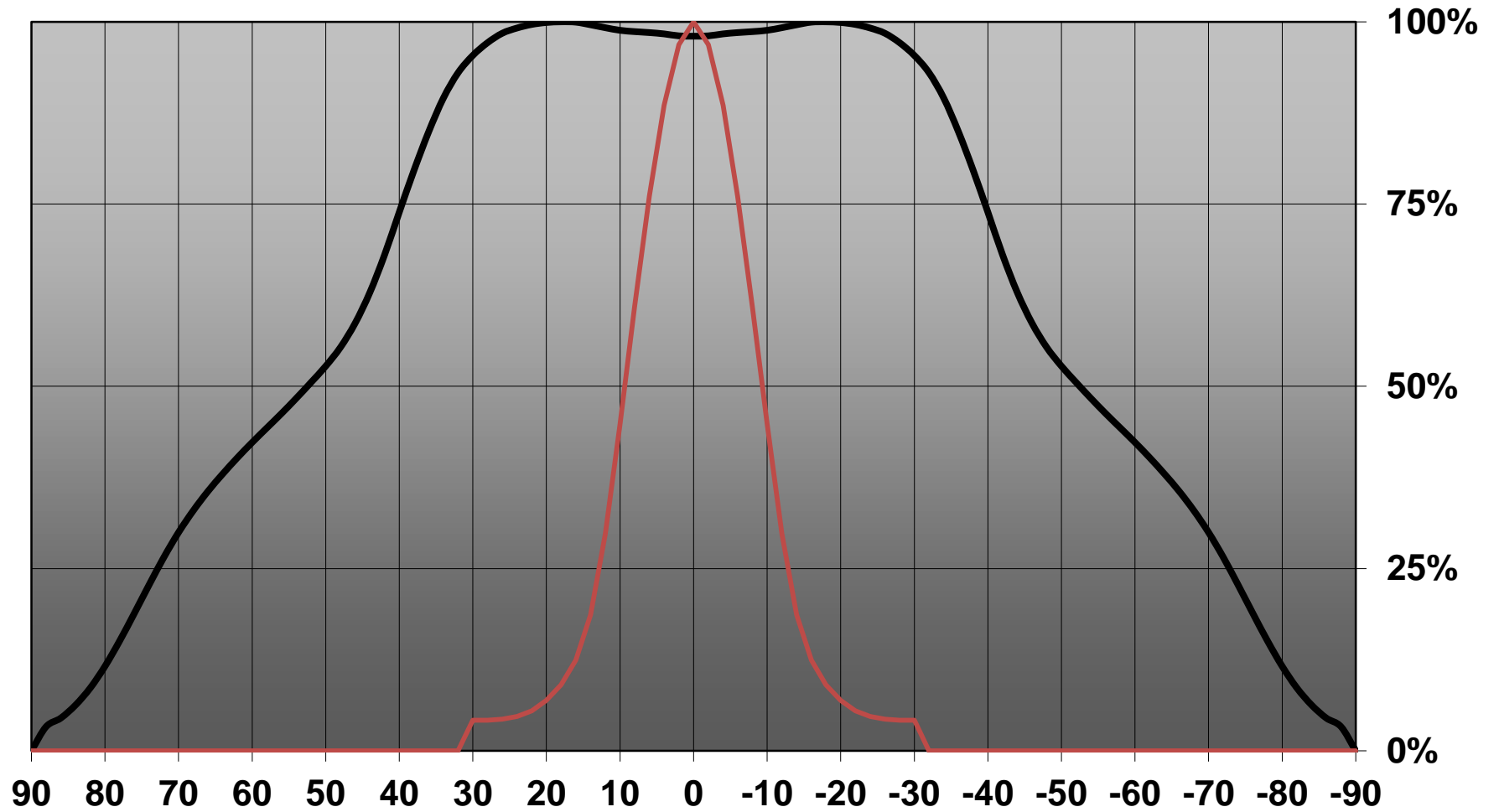
- Product series especially designed & optimized for XT-E series of LEDs.
- Special care taken to make light distribution as uniform as possible.
- Lens material optical grade PMMA with high UV and temperature resistance. Allows use of high current and temperature conditions.

Please find more information about used material from below:

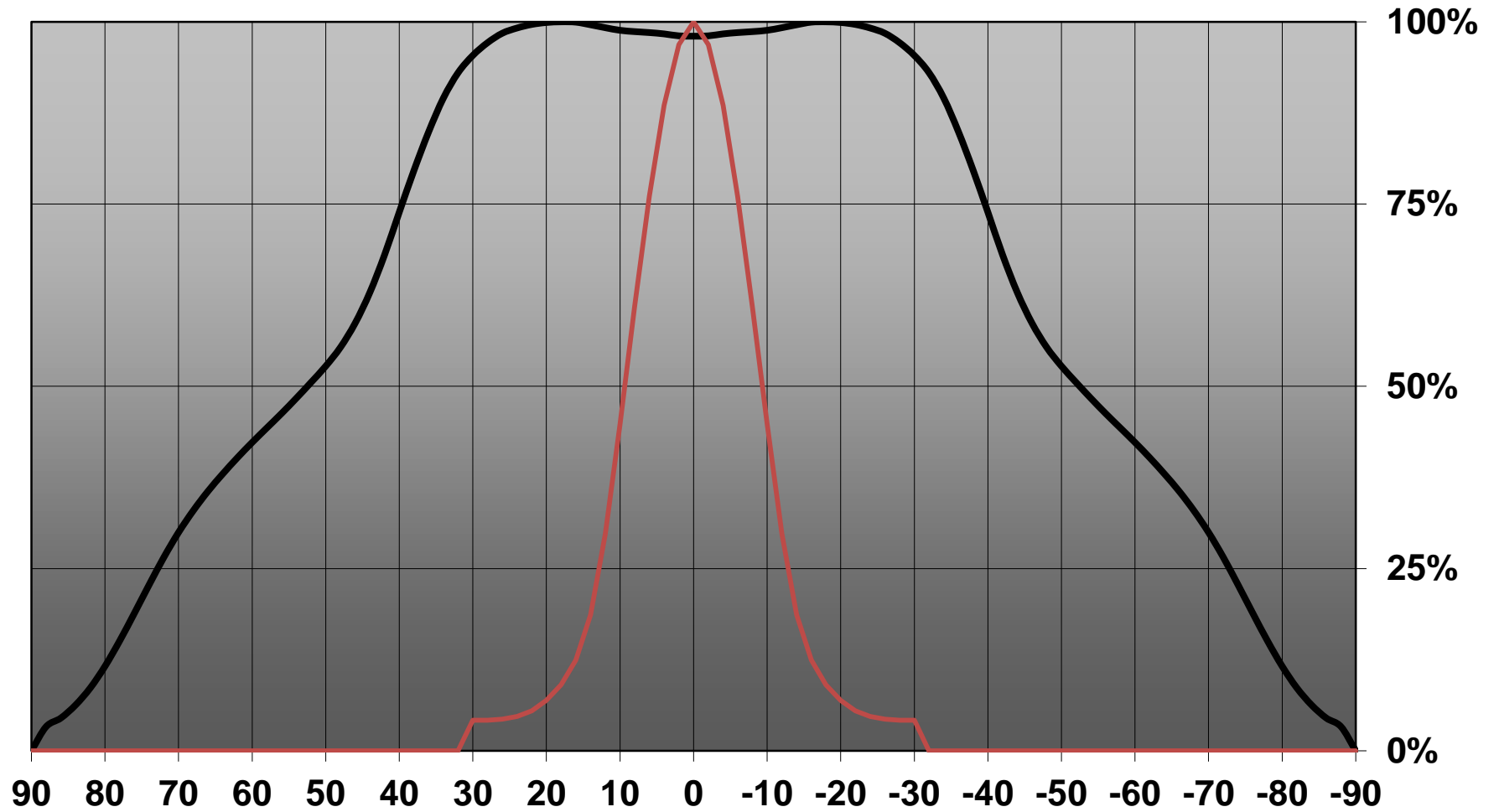
[http://ledil.fi/sites/default/files/Documents/Technical/Material/PMMA%20N%20UL94\\_Yellow%20Card.pdf](http://ledil.fi/sites/default/files/Documents/Technical/Material/PMMA%20N%20UL94_Yellow%20Card.pdf)

<http://ledil.fi/sites/default/files/Documents/Technical/Material/PMMA%20N%20PLEXIGLAS-Datasheet.pdf>

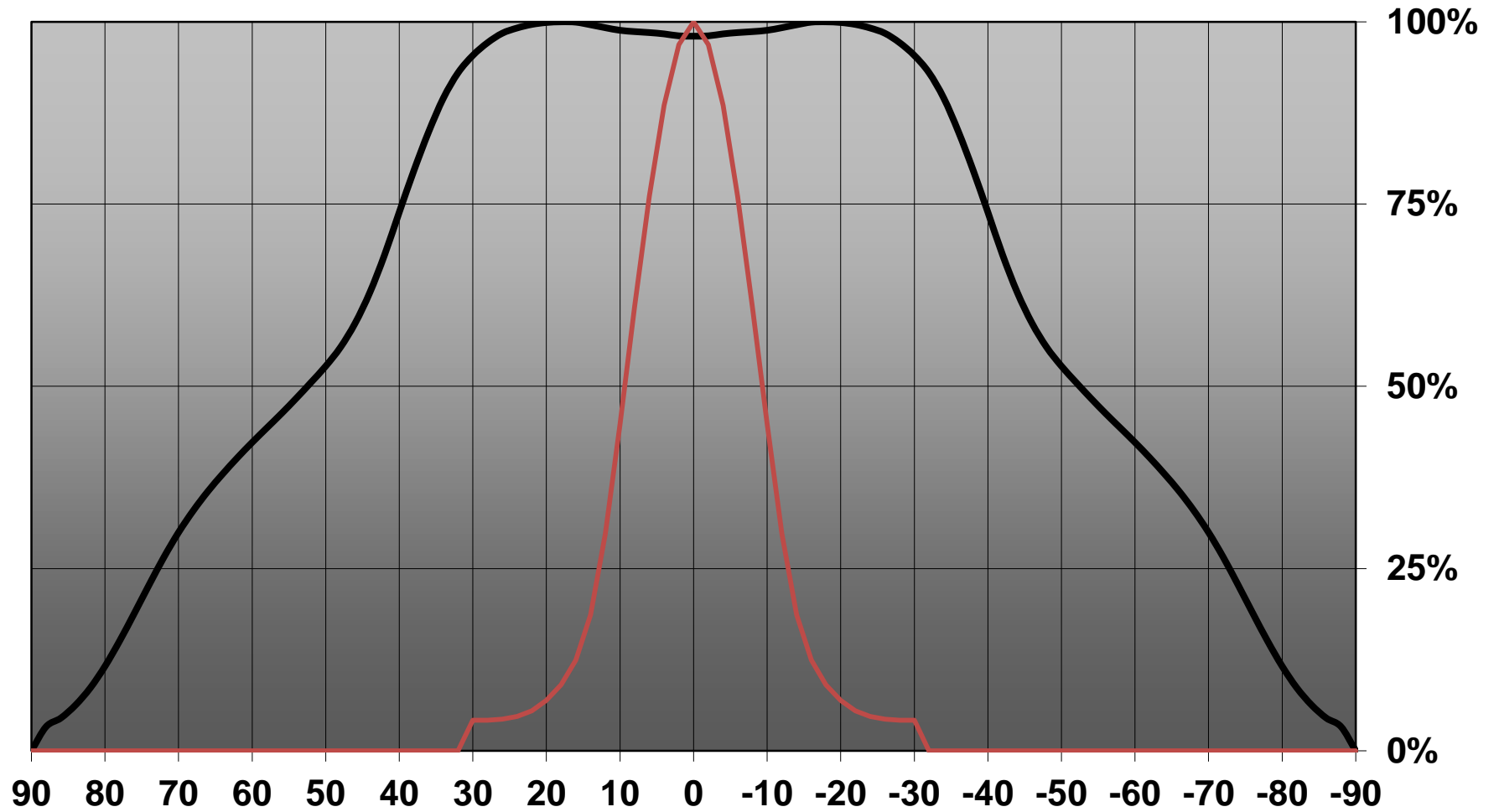
Relative intensity of CA13057&CA13058\_FLARE-MINI-AD-XTE



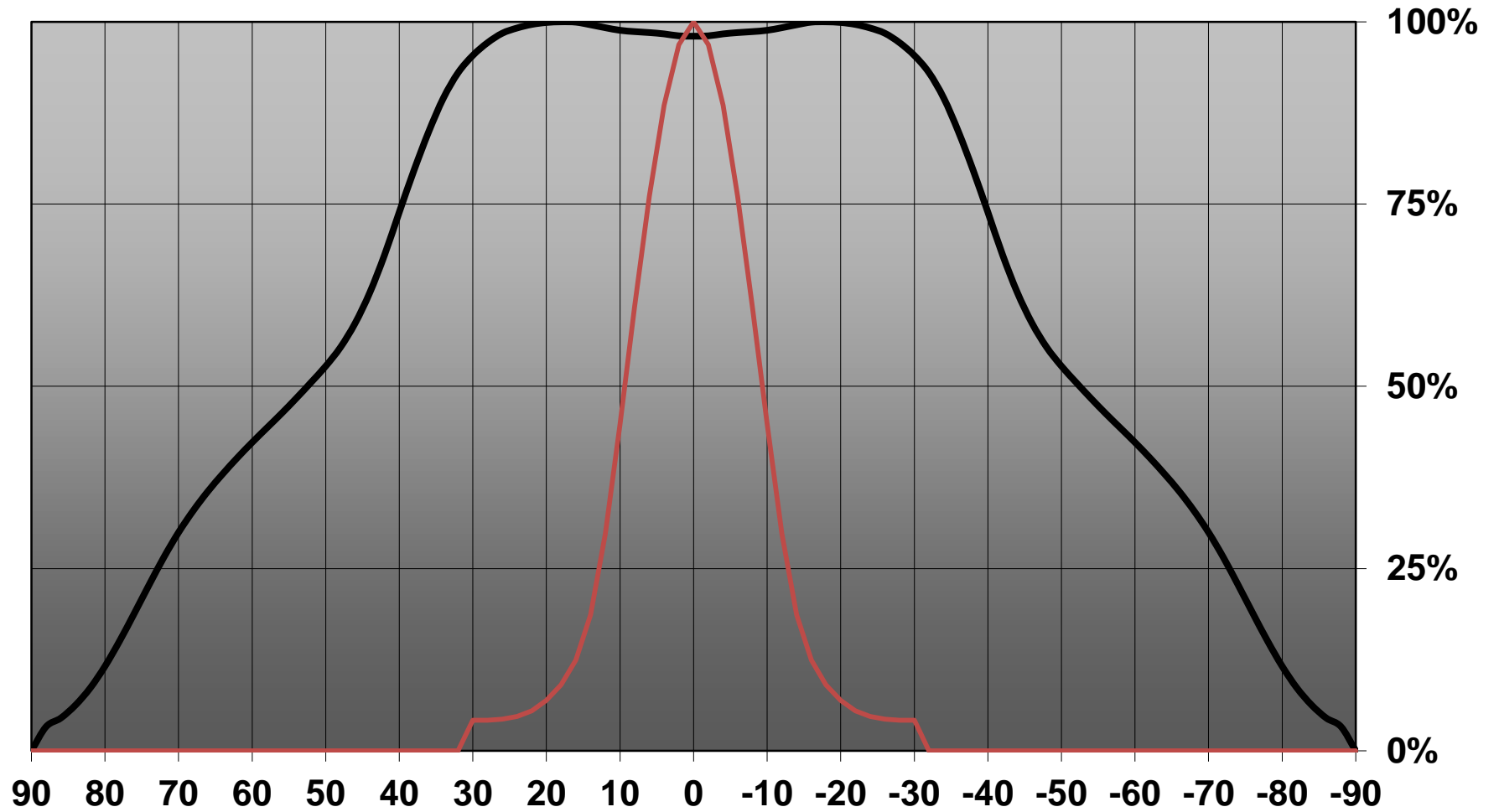
Relative intensity of CA13057&CA13058\_FLARE-MINI-AD-XTE



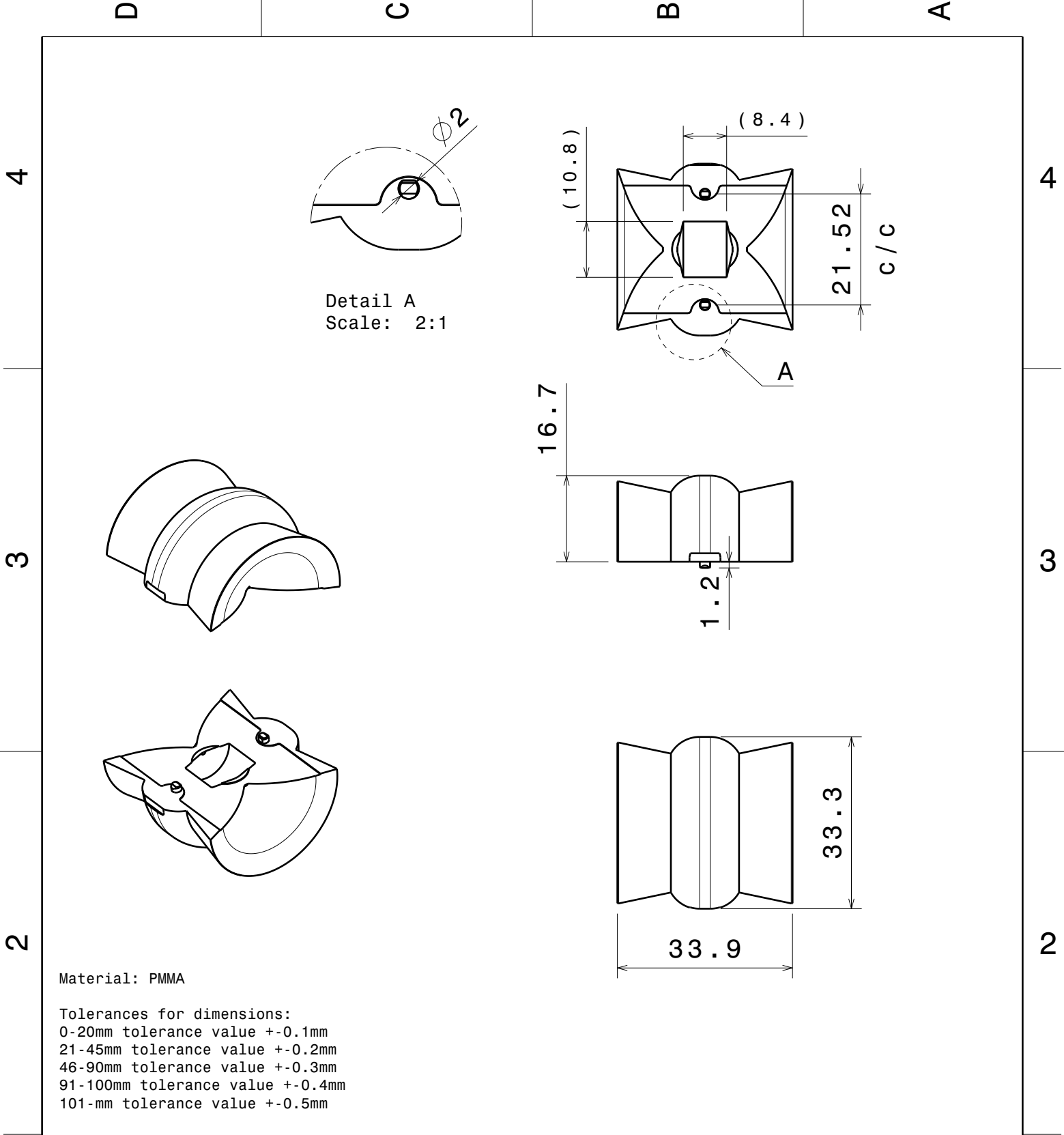
Relative intensity of CA13057&CA13058\_FLARE-MINI-AD-XTE



Relative intensity of CA13057&CA13058\_FLARE-MINI-AD-XTE







Material: PMMA

Tolerances for dimensions:  
 0-20mm tolerance value  $\pm 0.1\text{mm}$   
 21-45mm tolerance value  $\pm 0.2\text{mm}$   
 46-90mm tolerance value  $\pm 0.3\text{mm}$   
 91-100mm tolerance value  $\pm 0.4\text{mm}$   
 101-mm tolerance value  $\pm 0.5\text{mm}$

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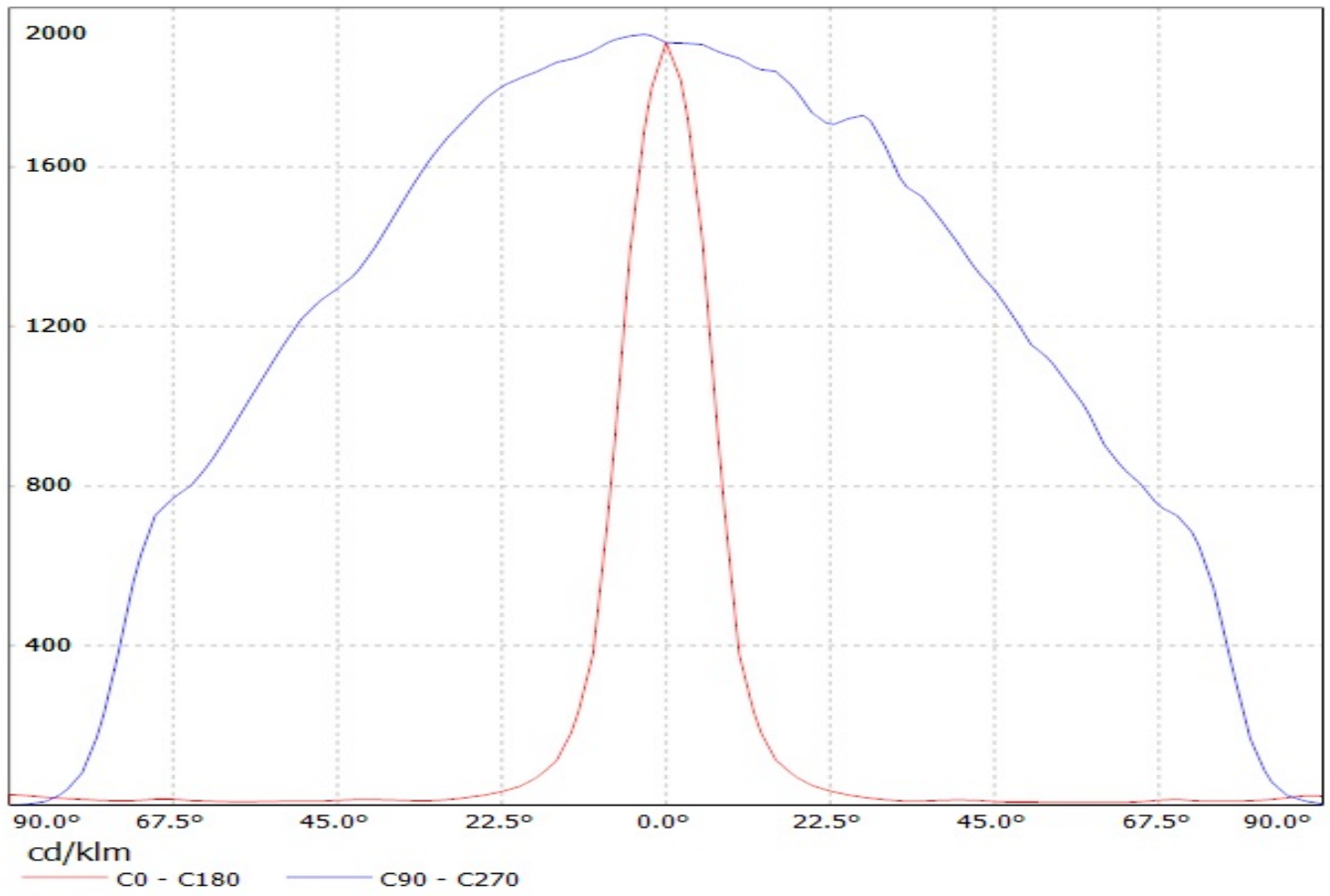
**LEDIL**  
 A WORLD OF INNOVATION  
 Ledil Oy  
 Salorankatu 10  
 FIN 24240 SALO  
 Finland

**DRAWING TITLE**  
 Datasheet FLARE-MAXI Lens

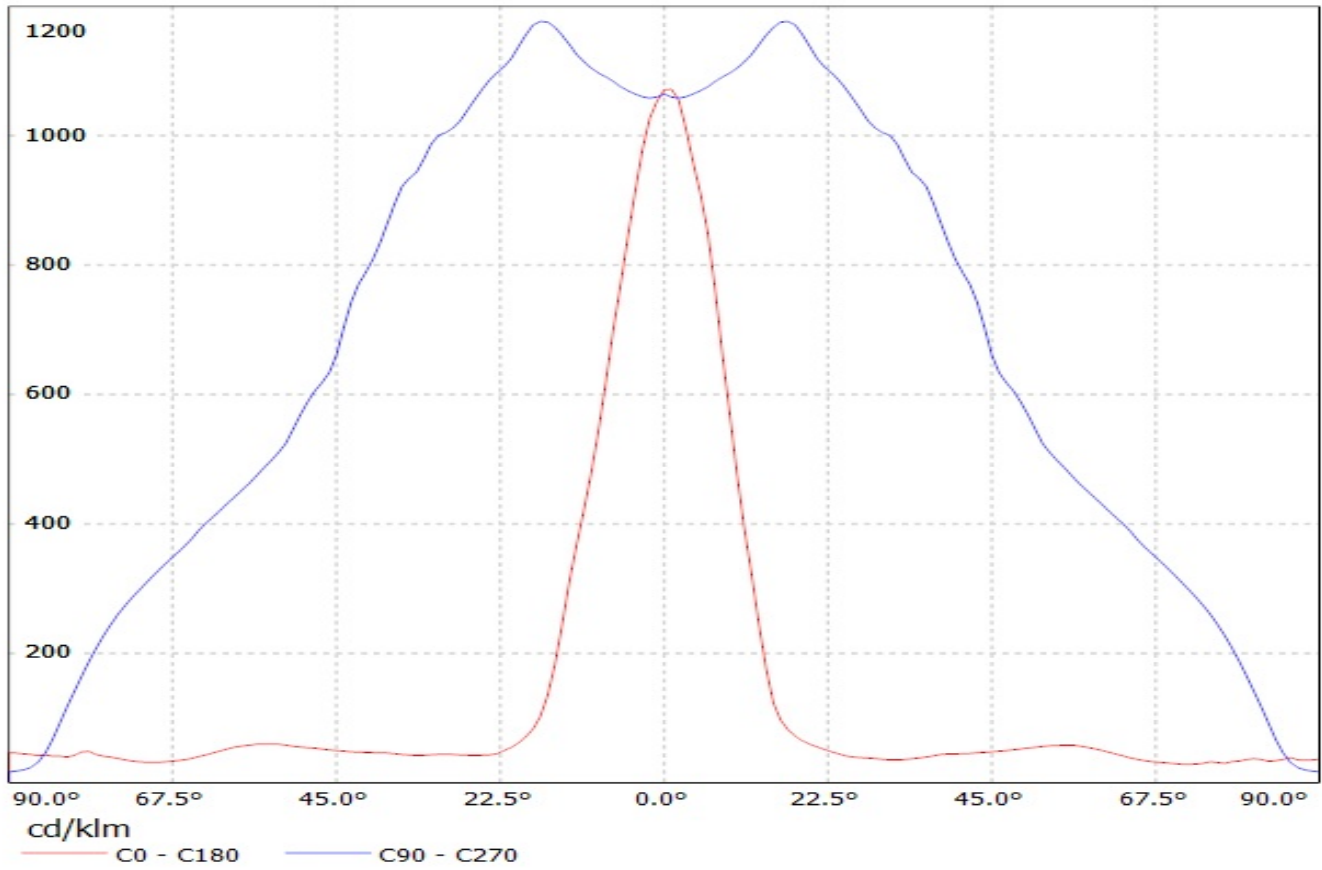
<b>DRAWN BY</b> pv	<b>DATE</b> 18.4.2012
<b>CHECKED BY</b> sn	<b>DATE</b> 17.4.2012
<b>DESIGNED BY</b> hh	<b>DATE</b> 6.4.2012

<b>SIZE</b> A4	<b>DRAWING NUMBER</b>	<b>REV</b> 1
<b>SCALE</b> 1:1	<b>WEIGHT (g)</b>	<b>SHEET</b> 1/1

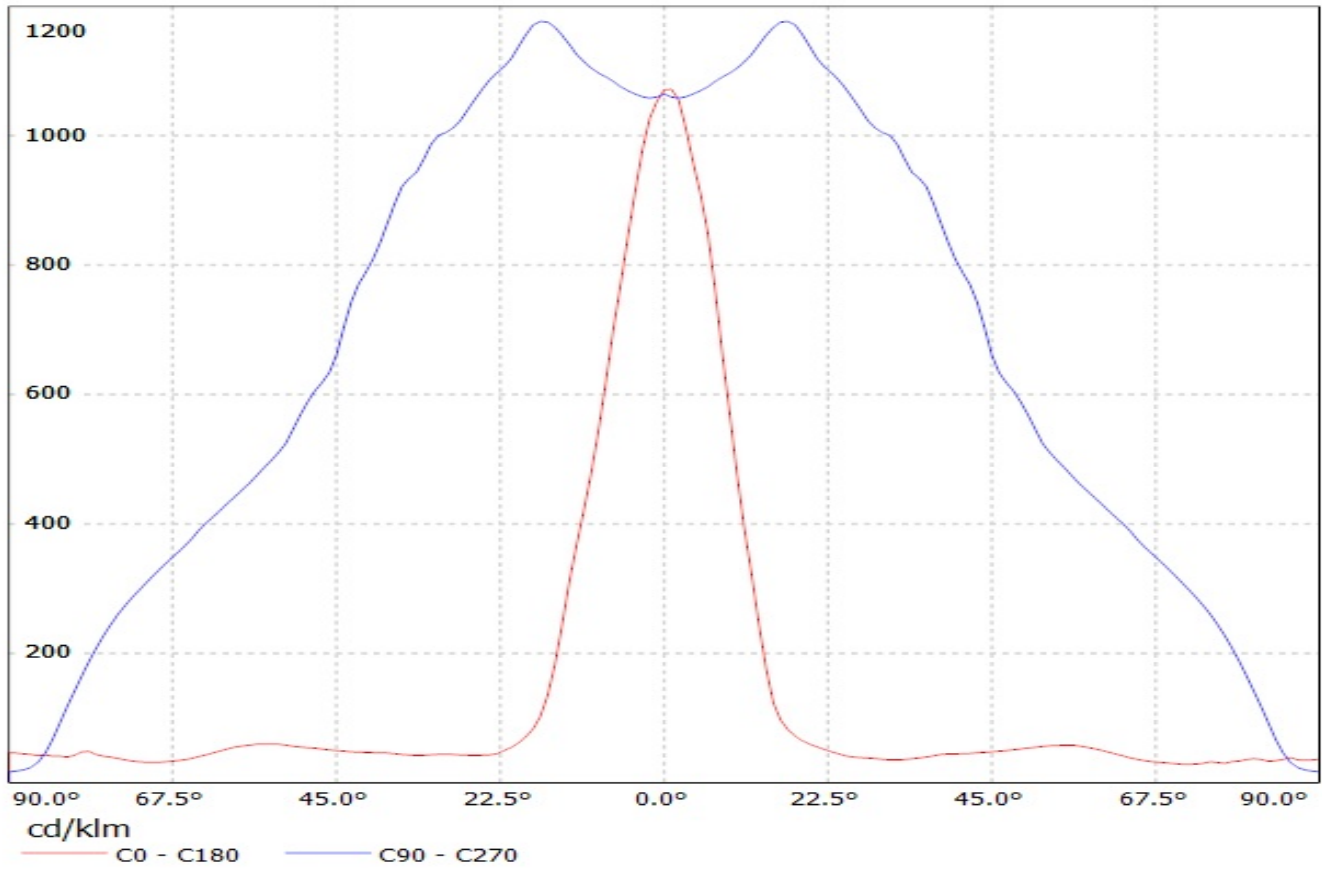
Luminaire: Ledil Oy C13012\_FLARE-MAXI-D (Cree XT-E 98lm @ 250mA) Efficiency=94%  
Lamps: 1 x Cree XT-E 98lm @ 250mA



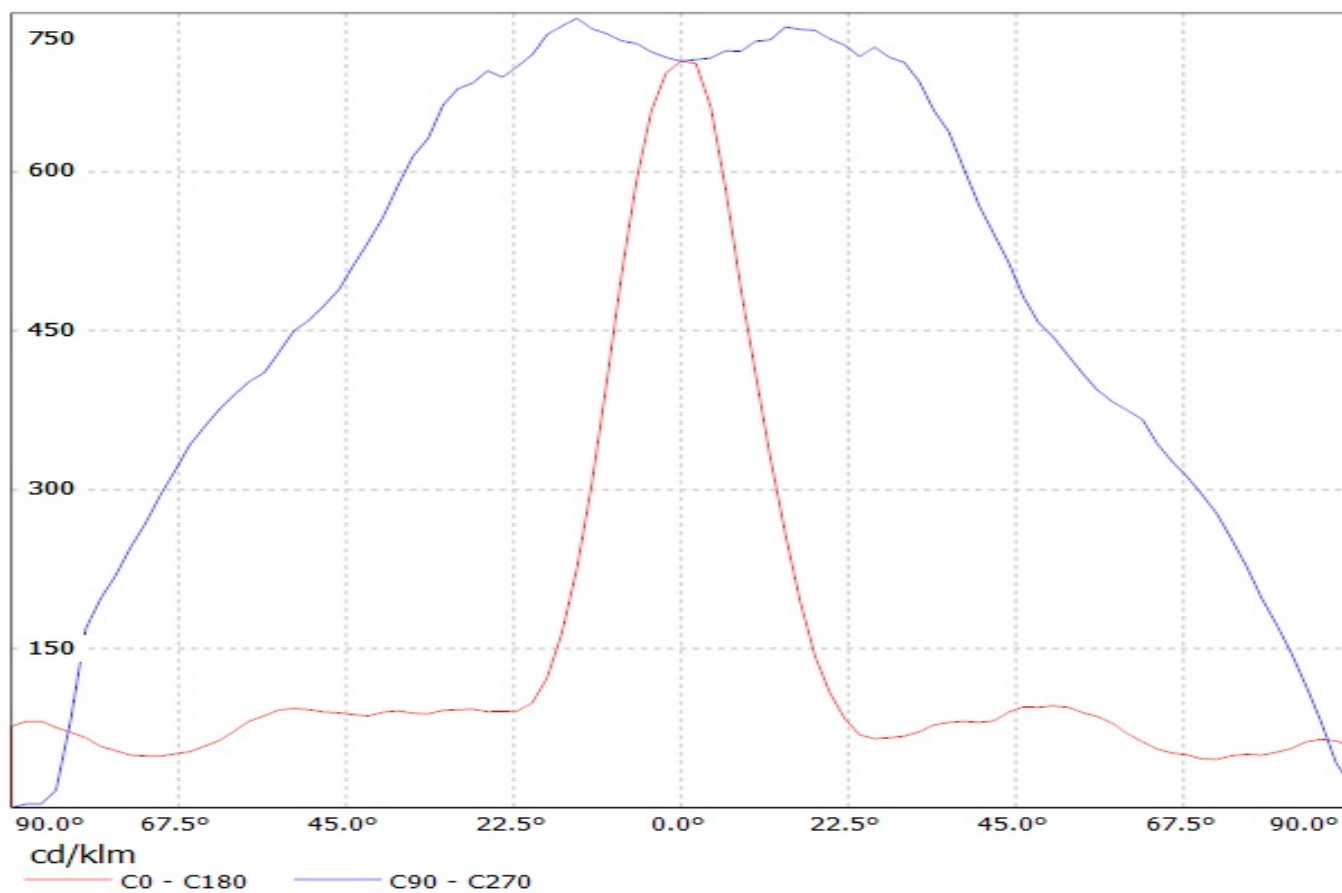
Luminaire: LEDIL OY C12763 & C12837\_FLARE-MINI-A (XT-E AWT) Efficiency=94%  
Lamps: 1 x Cree XT-E AWT (108lm@250mA)



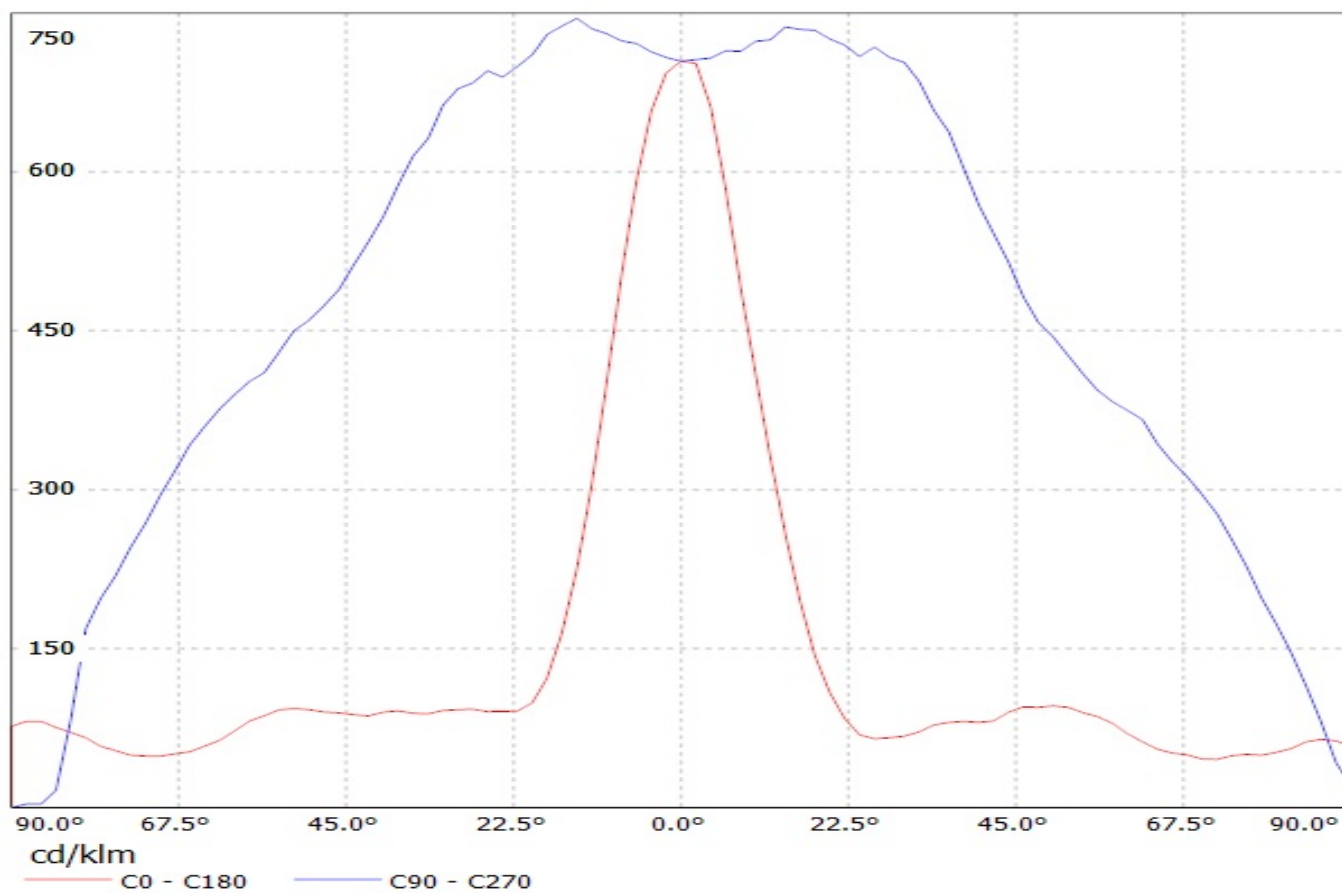
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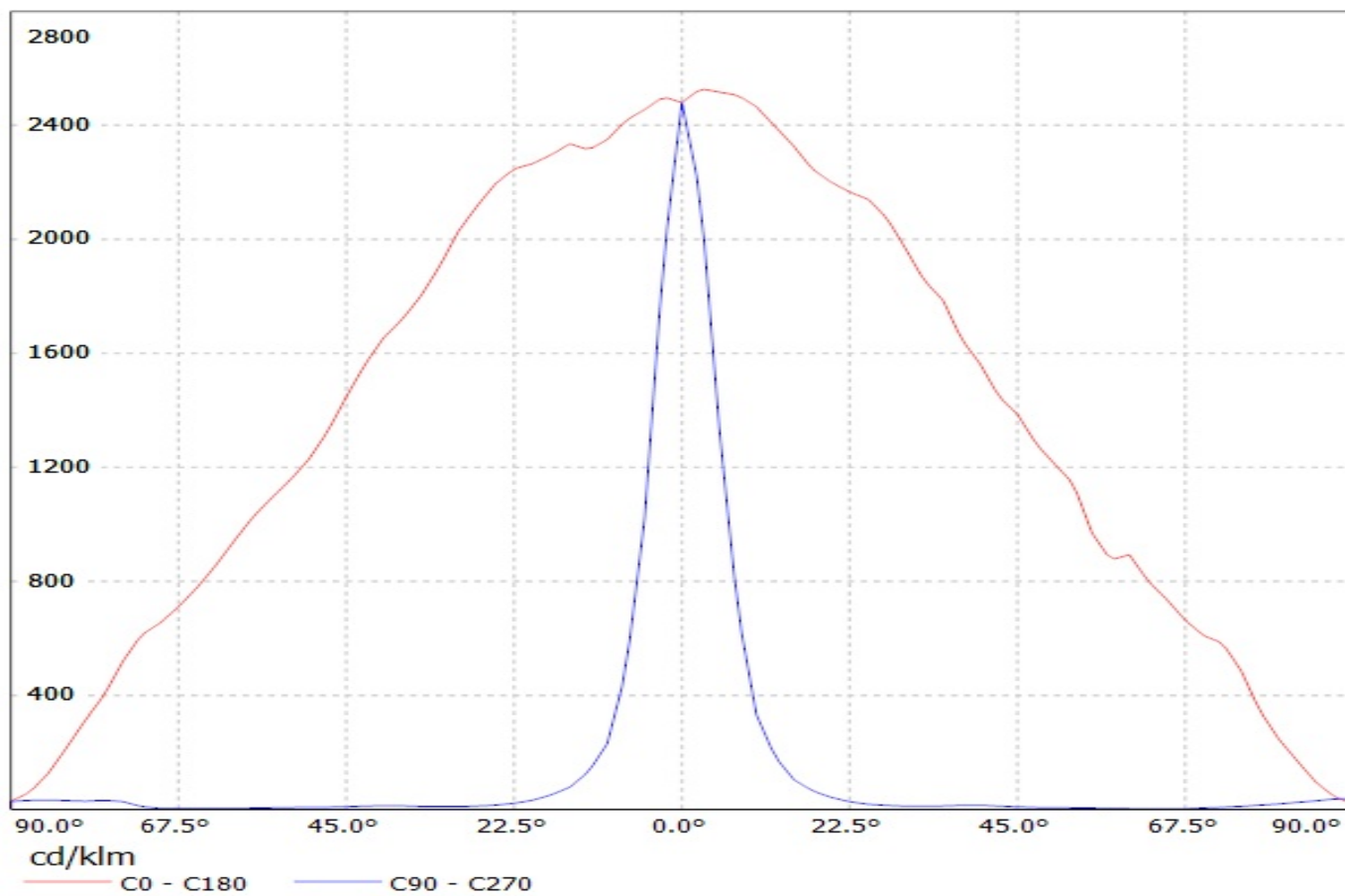
Luminaire: Ledil Oy CA12764/CA12838\_FLARE-MINI-A (Cree XT-E 86lm @ 250mA) Efficiency=94%  
Lamps: 1 x Cree XT-E 86lm @ 250mA



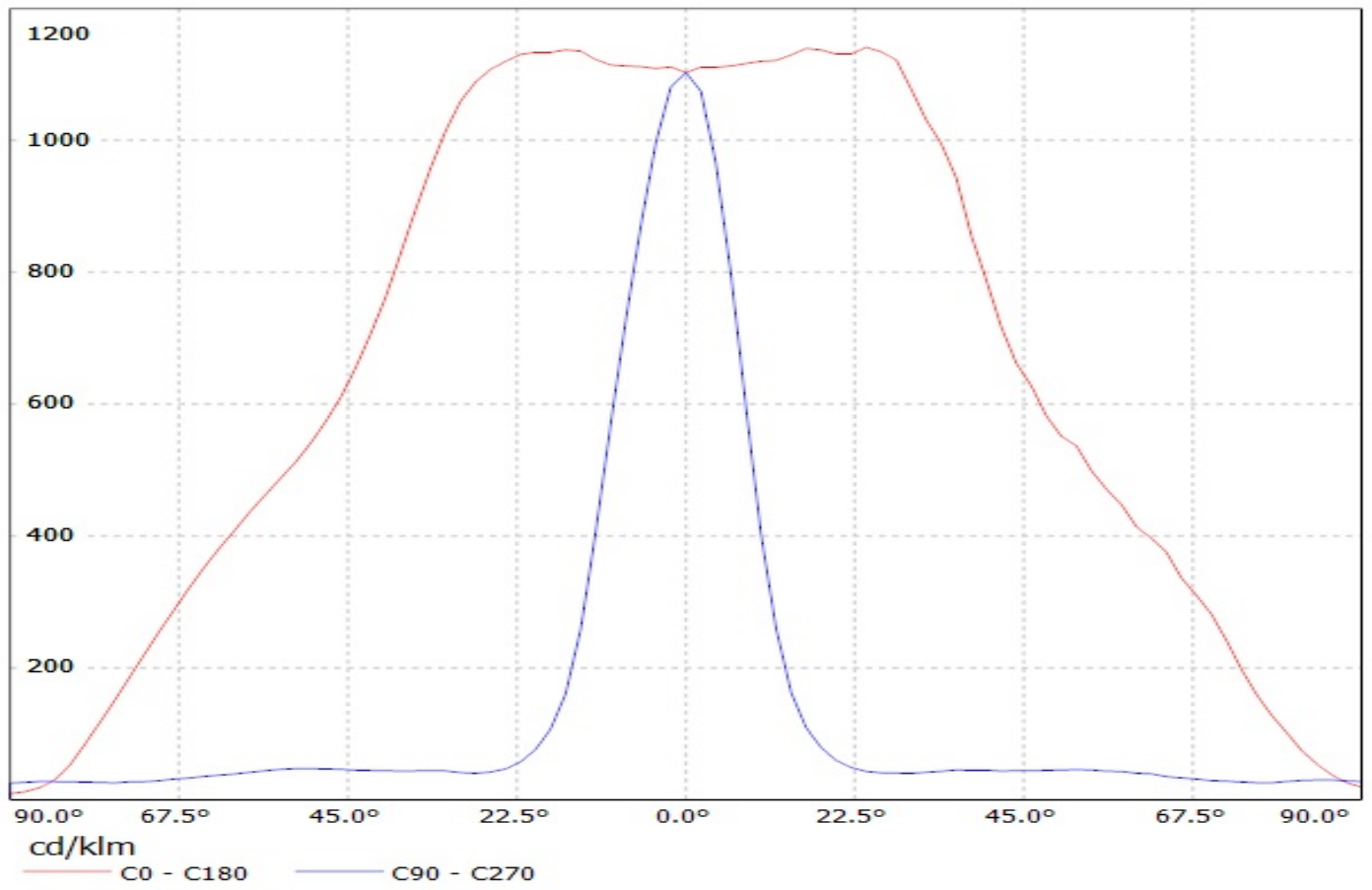
Luminaire: Ledil Oy CA12764/CA12838\_FLARE-MINI-A (Cree XT-E 86lm @ 250mA) Efficiency=94%  
Lamps: 1 x Cree XT-E 86lm @ 250mA



Luminaire: Ledil Oy C12868\_FLARE-MAXI (Cree XT-E 94lm @ 250mA) Efficiency=94%  
Lamps: 1 x Cree XT-E 94lm @ 250mA

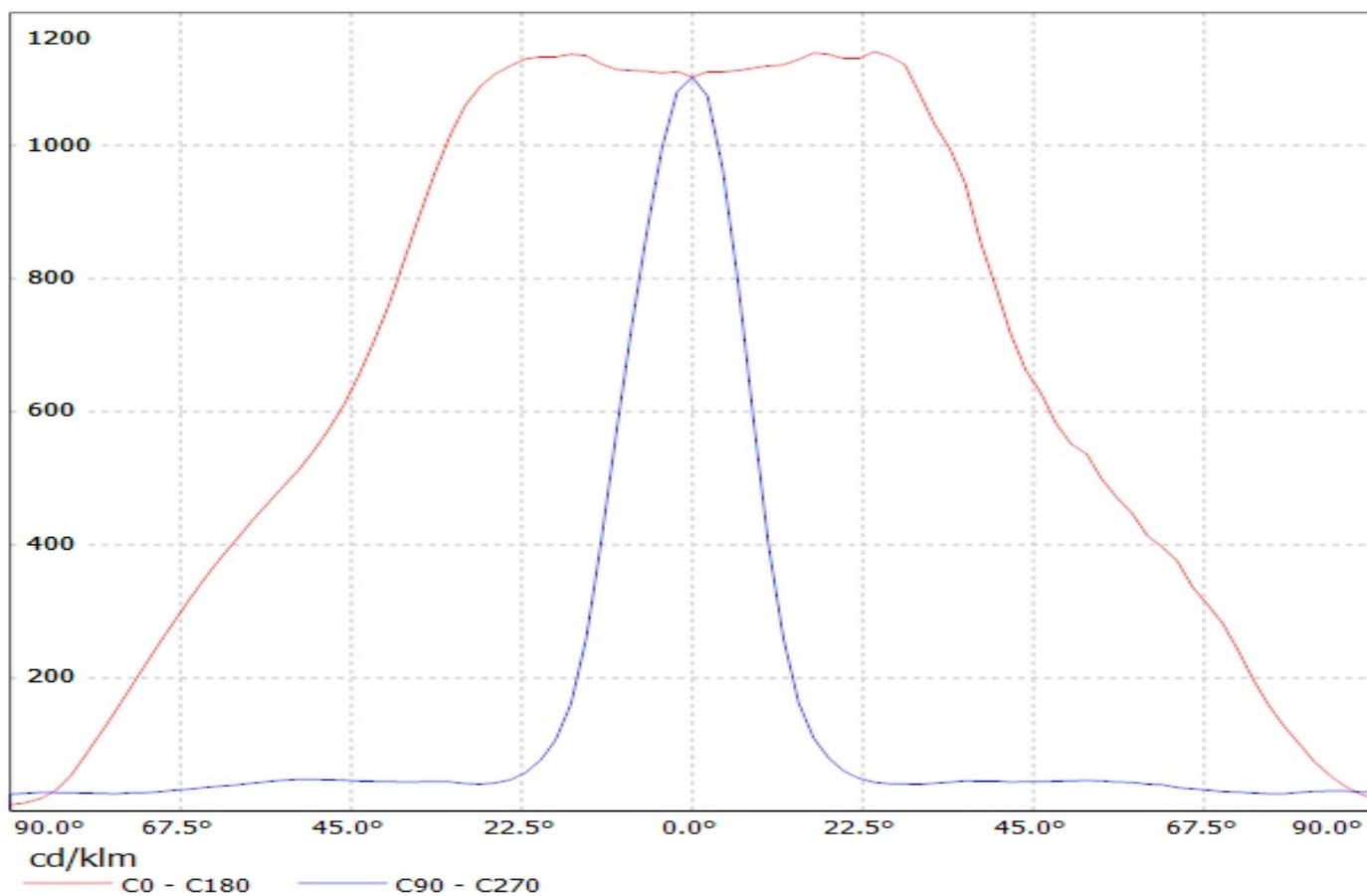


Luminaire: Ledil Oy CA13058\_FLARE-MINI-AD-PIN (Cree XT-E 98lm @ 250mA) Efficiency=94%  
Lamps: 1 x Cree XT-E 98lm @ 250mA

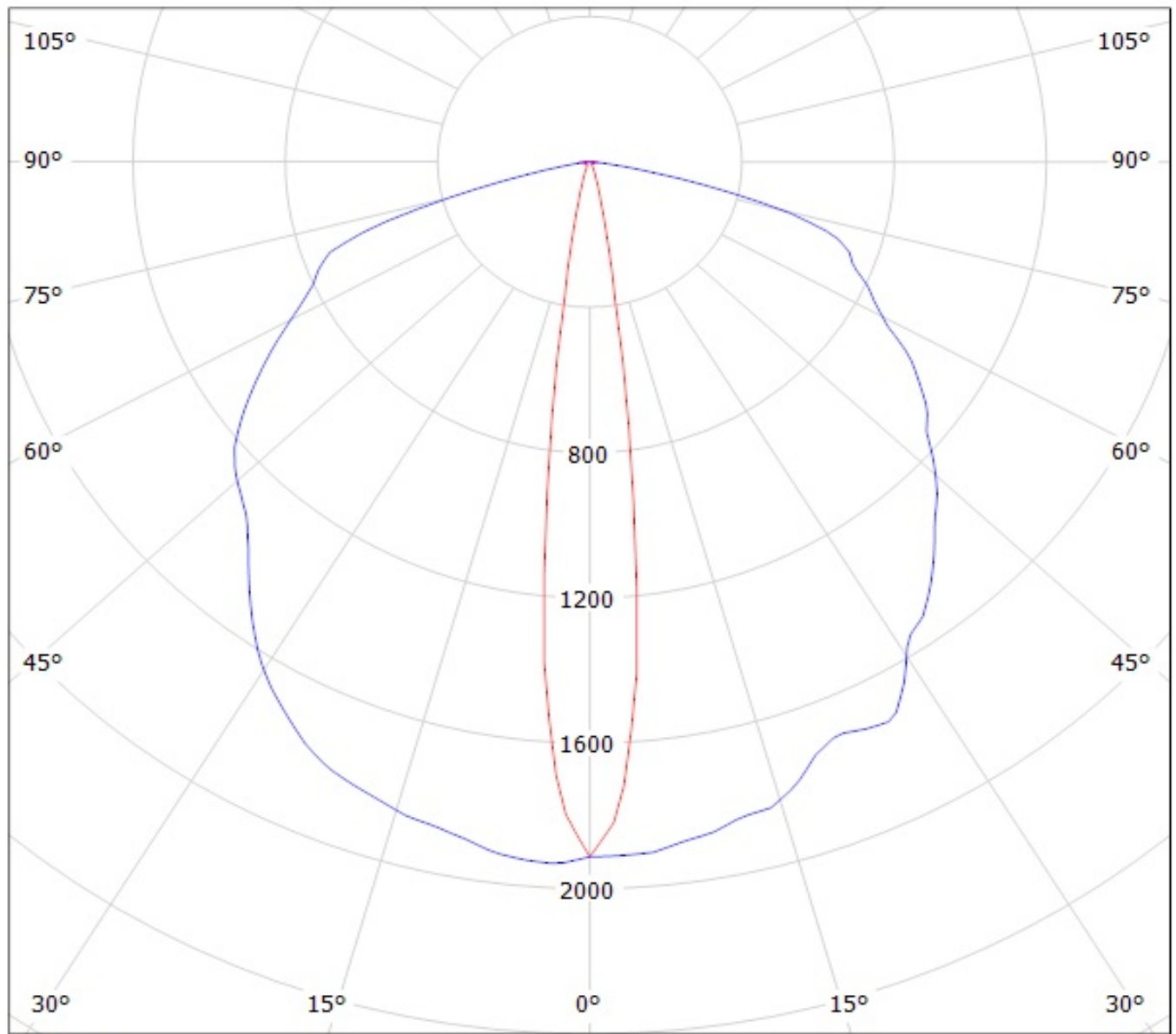




Luminaire: Ledil Oy CA13058\_FLARE-MINI-AD-PIN (Cree XT-E 98lm @ 250mA) Efficiency=94%  
Lamps: 1 x Cree XT-E 98lm @ 250mA



Luminaire: Ledil Oy C13012\_FLARE-MAXI-D (Cree XT-E 98lm @ 250mA) Efficiency=94%  
Lamps: 1 x Cree XT-E 98lm @ 250mA

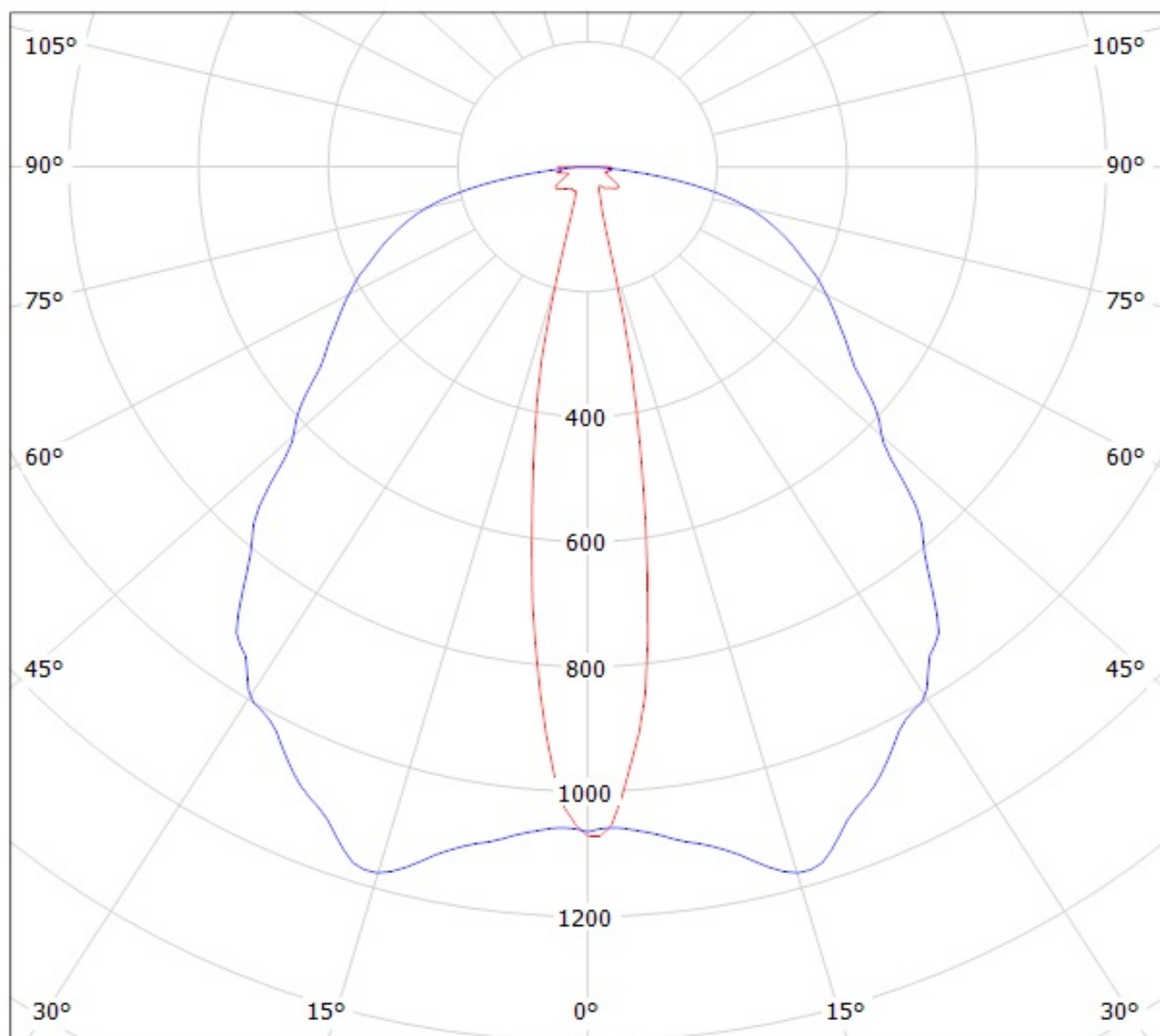


cd/klm

— C0 - C180

— C90 - C270

Luminaire: LEDIL OY C12763 & C12837\_FLARE-MINI-A (XT-E AWT) Efficiency=94%  
Lamps: 1 x Cree XT-E AWT (108lm@250mA)

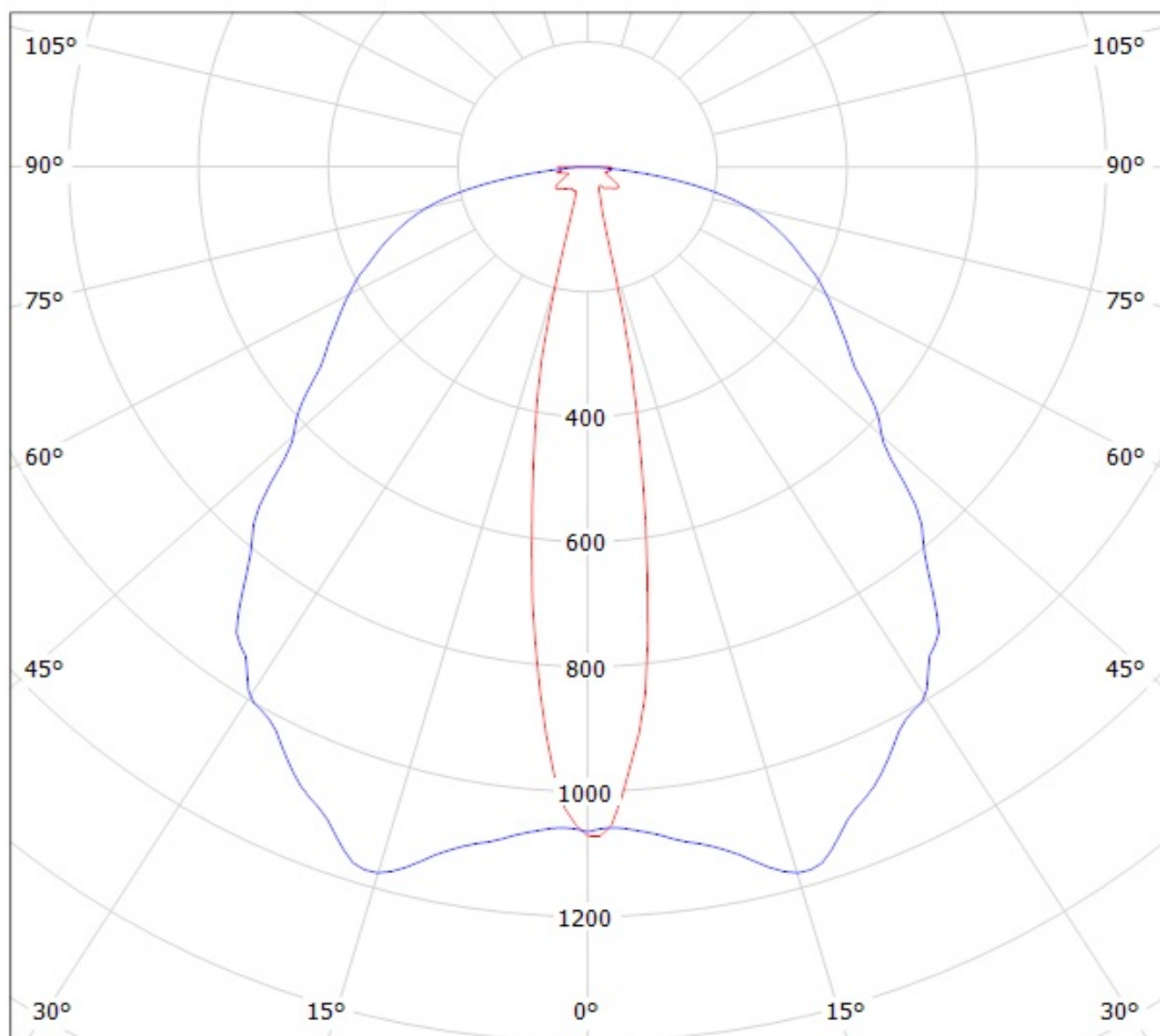


cd/klm

— C0 - C180

— C90 - C270

Luminaire: LEDIL OY C12763 & C12837\_FLARE-MINI-A (XT-E AWT) Efficiency=94%  
Lamps: 1 x Cree XT-E AWT (108lm@250mA)

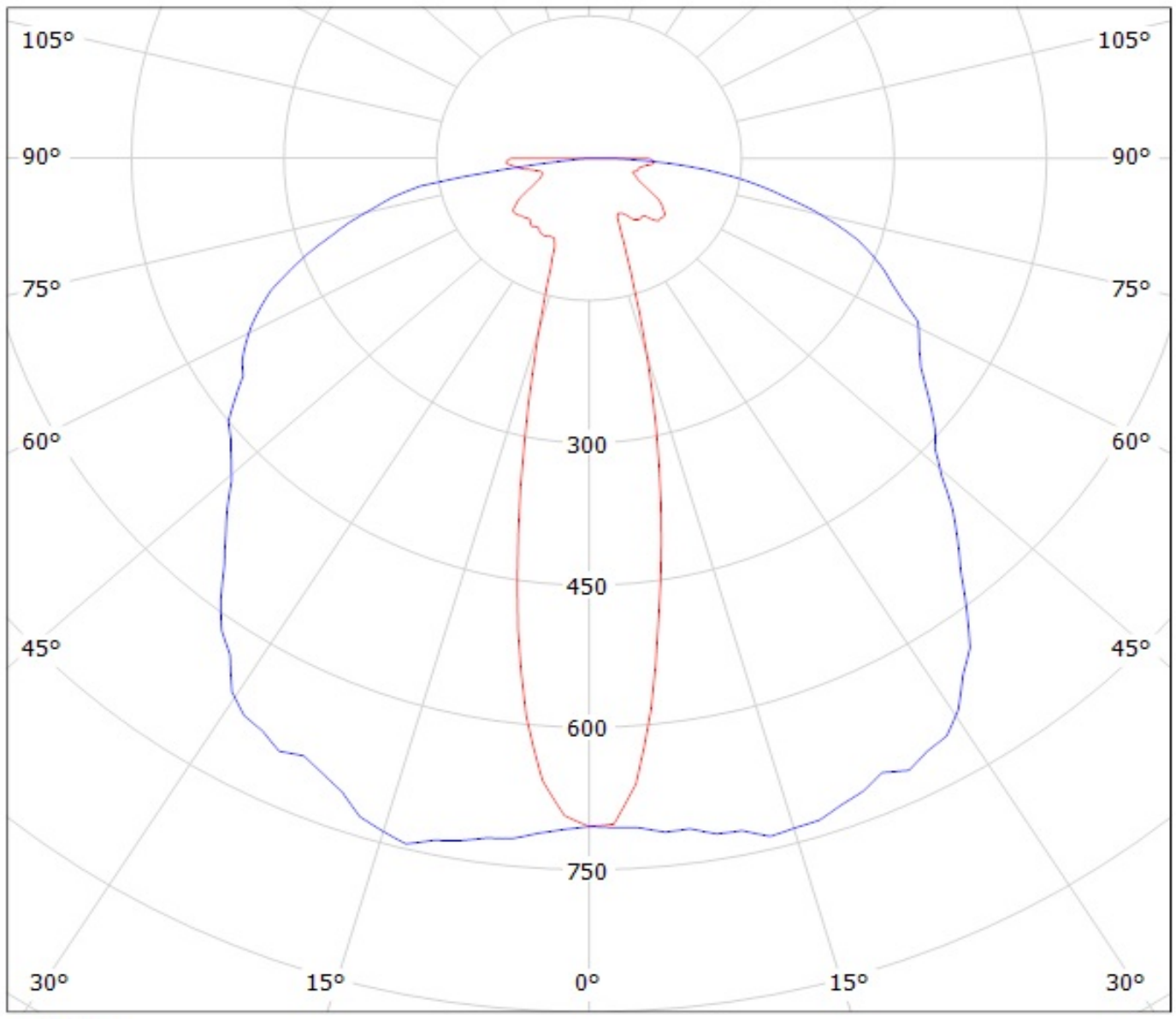


cd/klm

— C0 - C180

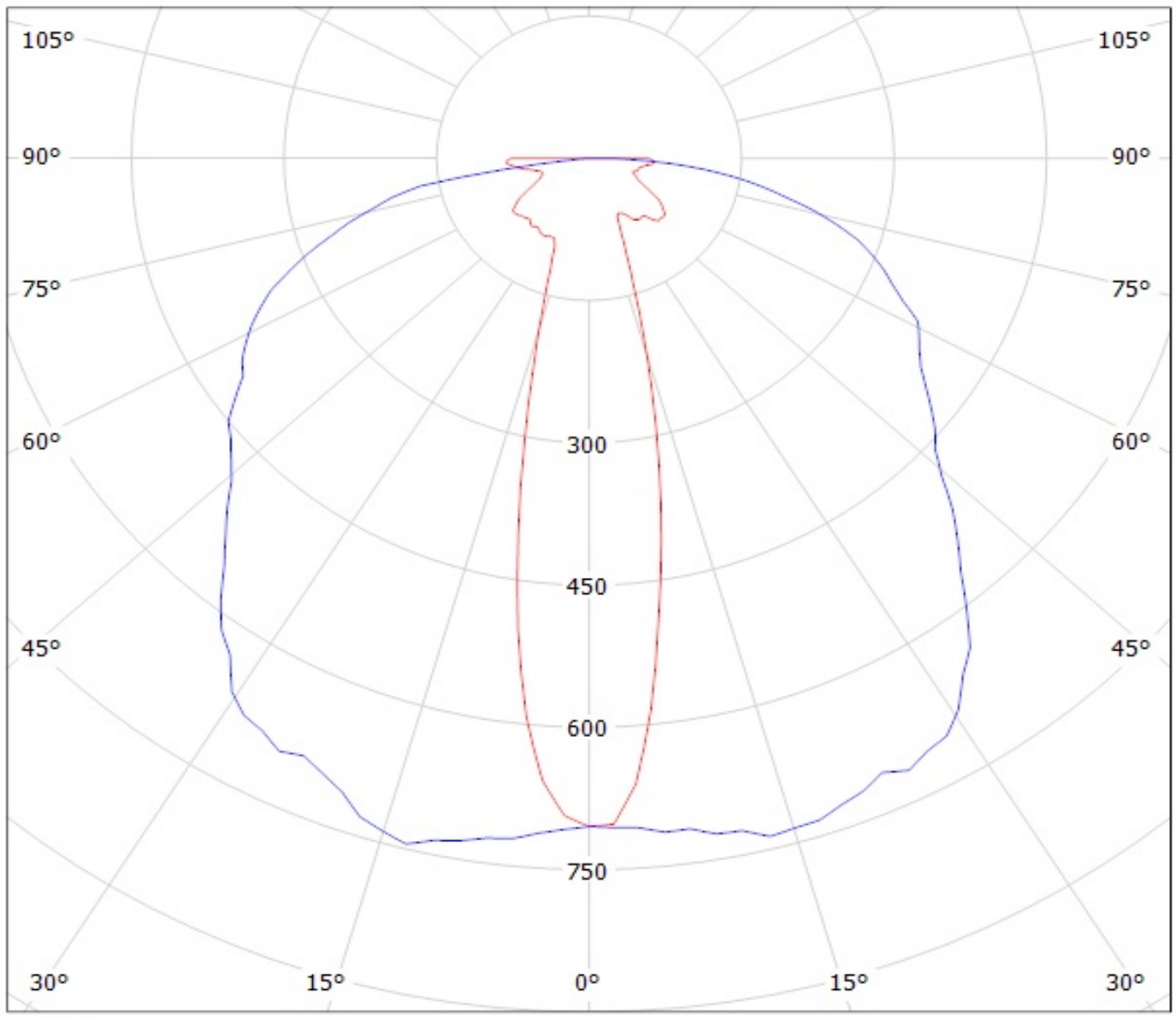
— C90 - C270

Luminaire: Ledil Oy CA12764/CA12838\_FLARE-MINI-A (Cree XT-E 86lm @ 250mA) Efficiency=94%  
Lamps: 1 x Cree XT-E 86lm @ 250mA



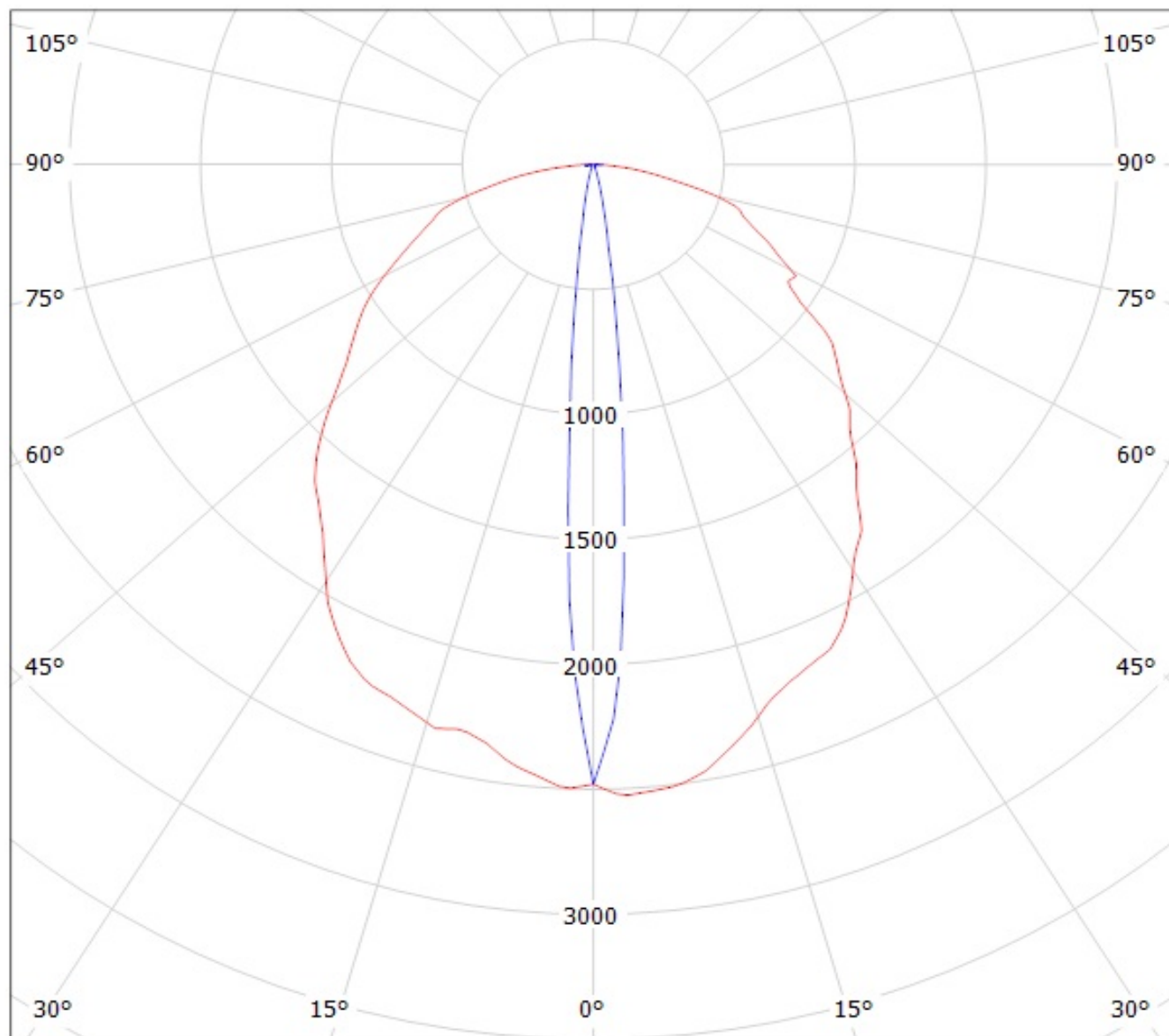
cd/klm  
— C0 - C180    — C90 - C270

Luminaire: Ledil Oy CA12764/CA12838\_FLARE-MINI-A (Cree XT-E 86lm @ 250mA) Efficiency=94%  
Lamps: 1 x Cree XT-E 86lm @ 250mA



cd/klm  
— C0 - C180    — C90 - C270

Luminaire: Ledil Oy C12868\_FLARE-MAXI (Cree XT-E 94lm @ 250mA) Efficiency=94%  
Lamps: 1 x Cree XT-E 94lm @ 250mA

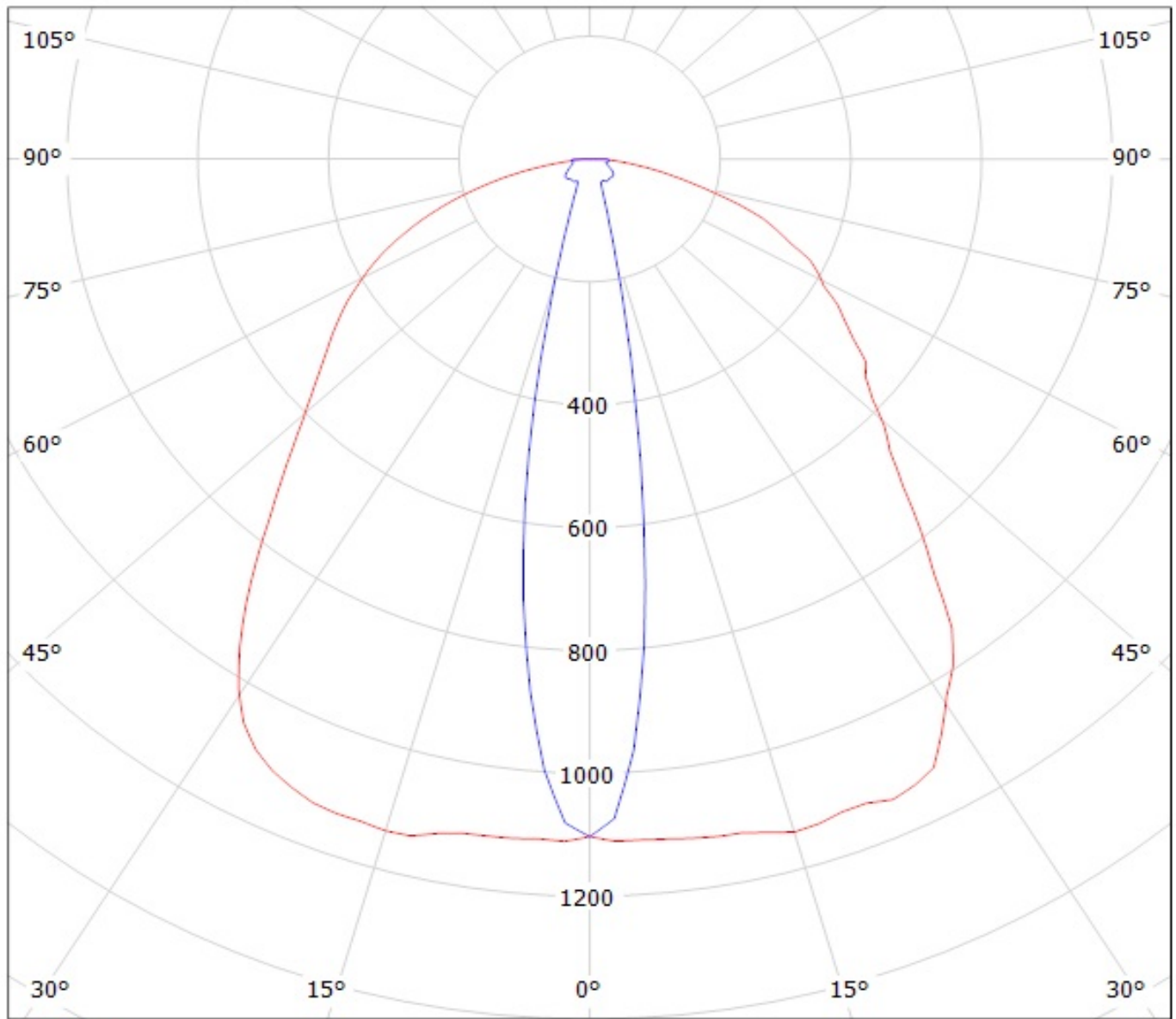


cd/klm

— C0 - C180

— C90 - C270

Luminaire: Ledil Oy CA13058\_FLARE-MINI-AD-PIN (Cree XT-E 98lm @ 250mA) Efficiency=94%  
Lamps: 1 x Cree XT-E 98lm @ 250mA

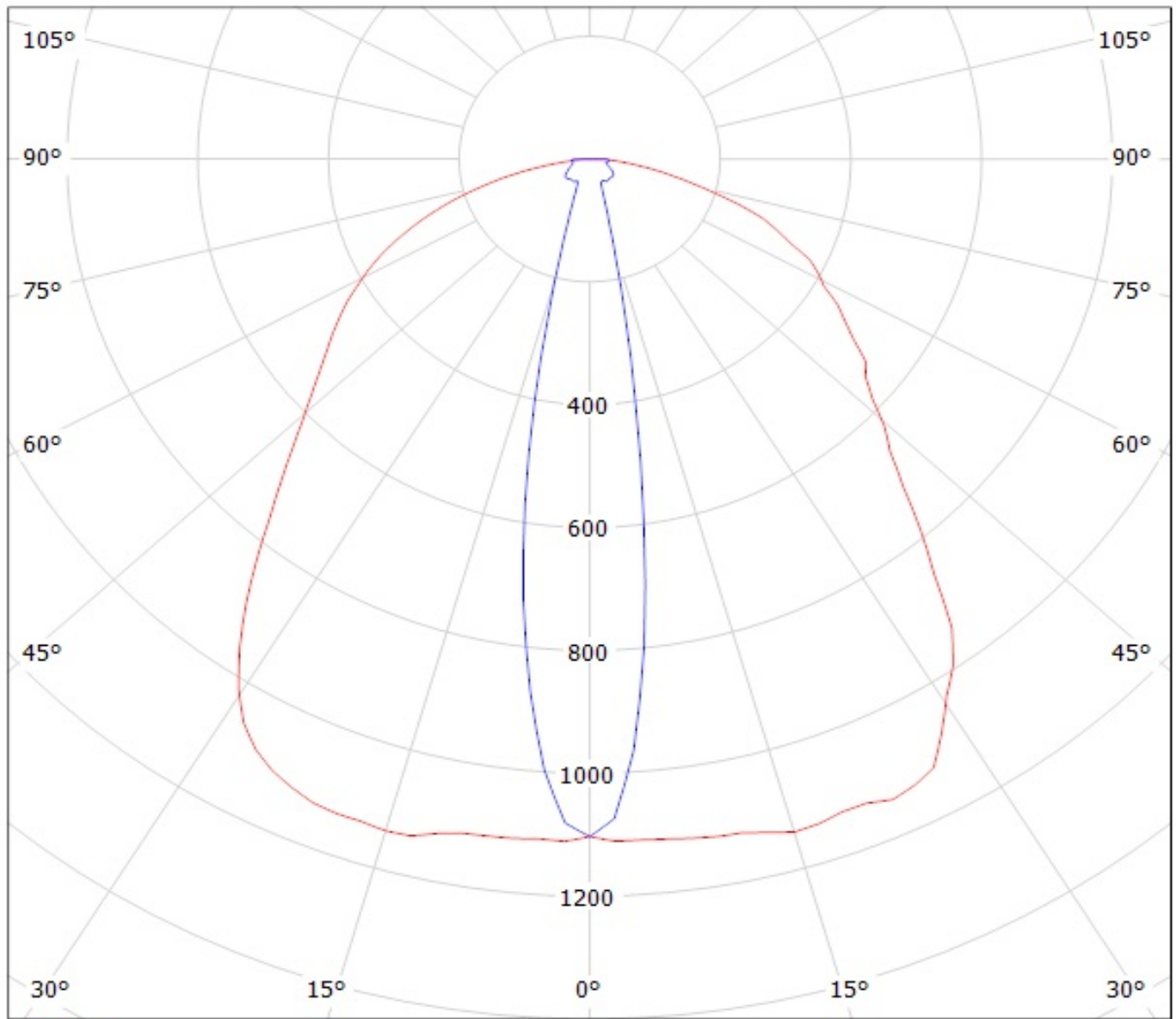


cd/klm

— C0 - C180    — C90 - C270



Luminaire: Ledil Oy CA13058\_FLARE-MINI-AD-PIN (Cree XT-E 98lm @ 250mA) Efficiency=94%  
Lamps: 1 x Cree XT-E 98lm @ 250mA



cd/klm

— C0 - C180    — C90 - C270