PRODUCT DATASHEET
Eva series
last update 31/7/2012



Ordering number CP12196_EVA-S

Family	Eva	FWHM	13 degrees
Type	Assembly	Efficiency	94 %
LED	XM-L	cd/lm	-
Color	Black	Gerber File	Available
Diameter	37.7 mm		
Height	17 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	PC		
Fastening	Screw, glue		
Status	Ready		



Ordering number CA12859_EVA-O

Family	Eva	FWHM	15.5+39 degrees
Type	Assembly	Efficiency	86 %
LED	XM-L	cd/lm	3.300
Color	Black	Gerber File	Available
Diameter	37.7 mm		
Height	17.2 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	PC		
Fastening	Tape		
Status	Ready		



Ordering number CP12860_EVA-O

Family	Eva	FWHM	15.5+39 degrees
Type	Assembly	Efficiency	86 %
LED	XM-L	cd/lm	3.300
Color	Black	Gerber File	Available
Diameter	37.7 mm		
Height	17 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	PC		
Fastening	Screw		
Status	Ready		



Ordering number CP12197_EVA-D

Family	Eva	FWHM	20 degrees
Type	Assembly	Efficiency	91 %
LED	XM-L	cd/lm	-
Color	Black	Gerber File	Available
Diameter	37.7 mm		
Height	17 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	PC		
Fastening	Screw, glue		
Status	Ready		

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Eva series
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Ordering number CP12198_EVA-M

Family	Eva	FWHM	24 degrees
Type	Assembly	Efficiency	88 %
LED	XM-L	cd/lm	-
Color	Black	Gerber File	Available
Diameter	37.7 mm		
Height	17 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	PC		
Fastening	Screw, glue		
Status	Ready		



Ordering number CP12199_EVA-W

Family	Eva	FWHM	40 degrees
Type	Assembly	Efficiency	79 %
LED	XM-L	cd/lm	-
Color	Black	Gerber File	Available
Diameter	37.7 mm		
Height	17 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	PC		
Fastening	Screw, glue		
Status	Ready		



Ordering number CP12200_EVA-WW

Family	Eva	FWHM	64 degrees
Type	Assembly	Efficiency	77 %
LED	XM-L	cd/lm	-
Color	Black	Gerber File	Available
Diameter	37.7 mm		
Height	17 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	PC		
Fastening	Screw, glue		
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.

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Eva series
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GENERAL INFORMATION

- Product series especially designed & optimized for XM-L 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 (105 degrees of Celcius / 220 degrees of Fahrenheit). 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%208N%20UL94_Yellow%20Card.pdf
http://ledil.fi/sites/default/files/Documents/Technical/Material/PMMA%208N%20PLEXIGLAS-Datasheet.pdf
- 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

- Fastening to PCB with appropriate adhesive. By clicking link below you can find Ledil recommended glue options.
http://www.ledil.com/datasheets/DataSheet_GLUES.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.
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 glue.

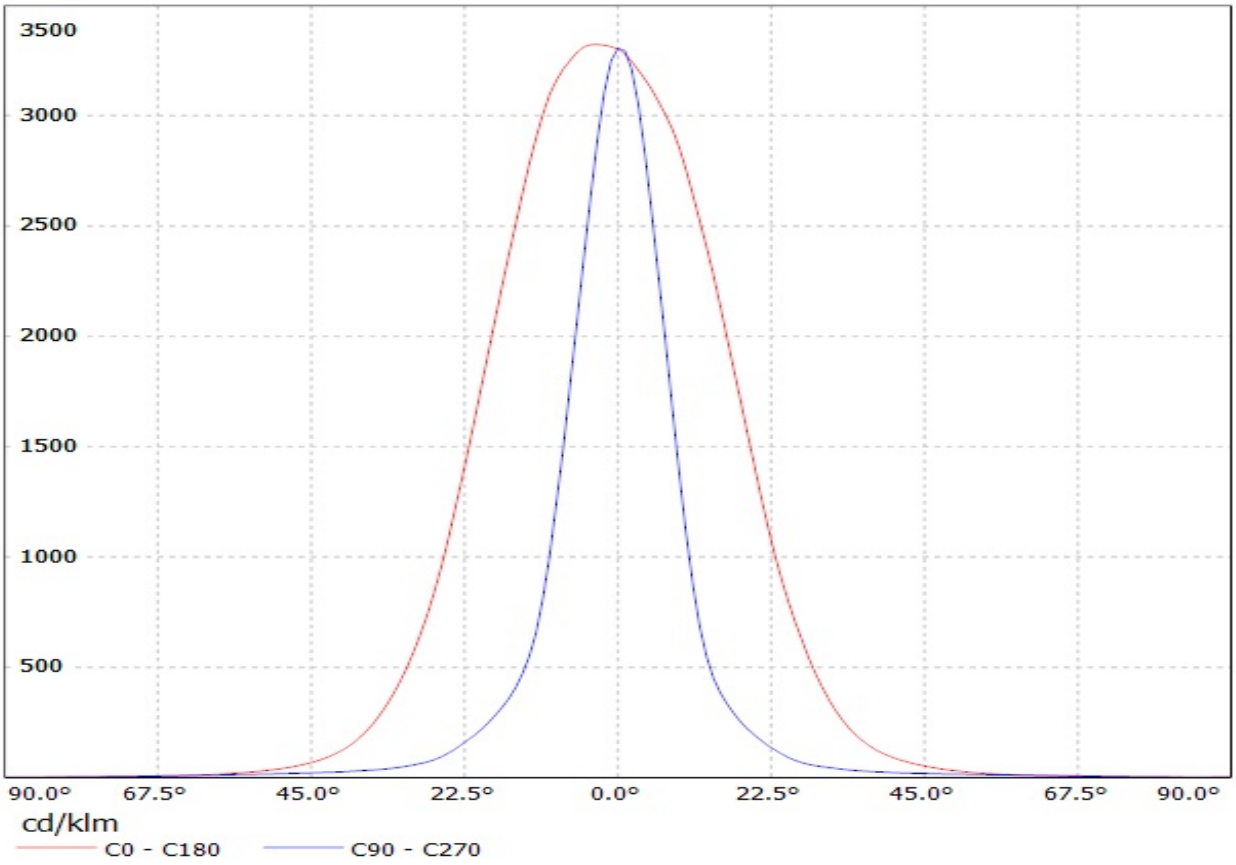
NOTE 2: All surfaces where glue is applied must be clean, dry and free from grease and dirt. If cleaning of PCB surfaces is needed, please follow strictly the cleaning instructions of your LED manufacturer -this is important as cleaning shall under no circumstances damage LEDs or other electronics components 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.

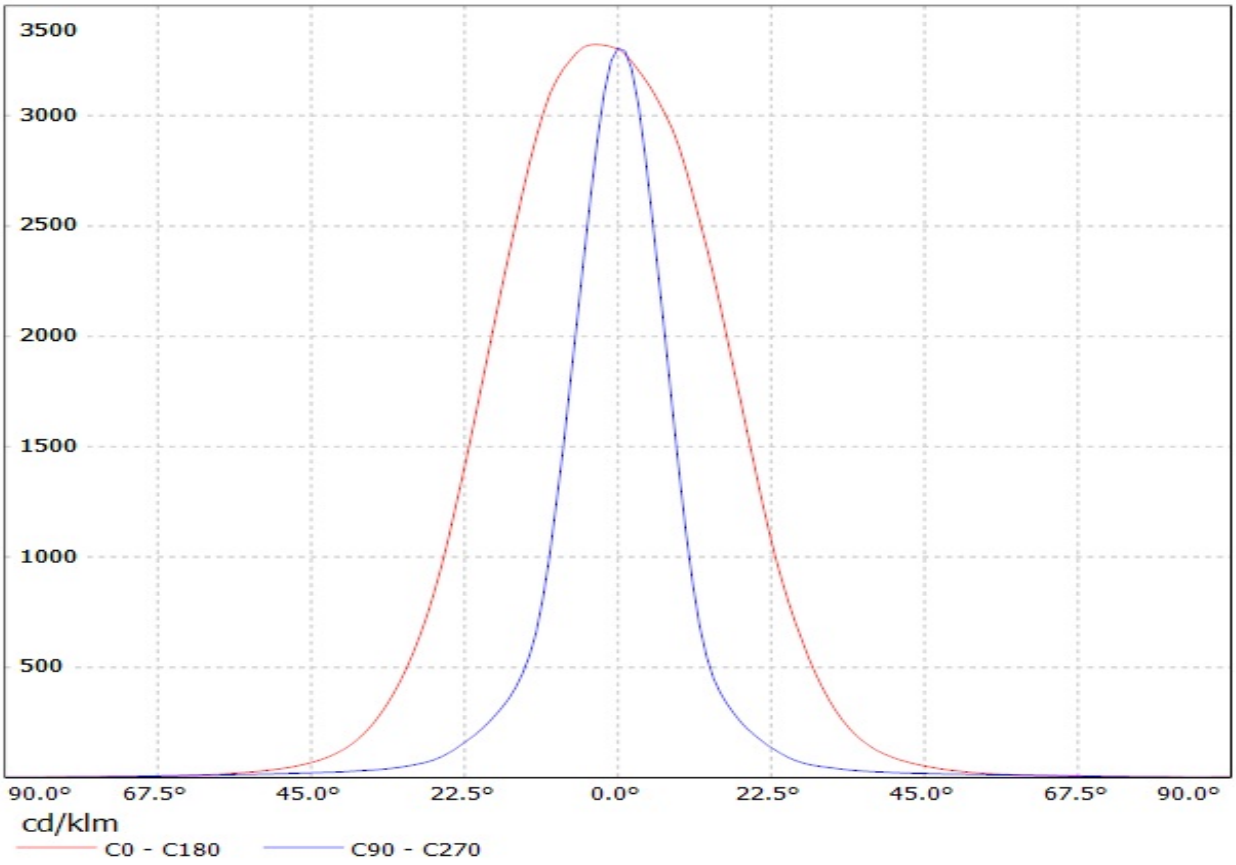
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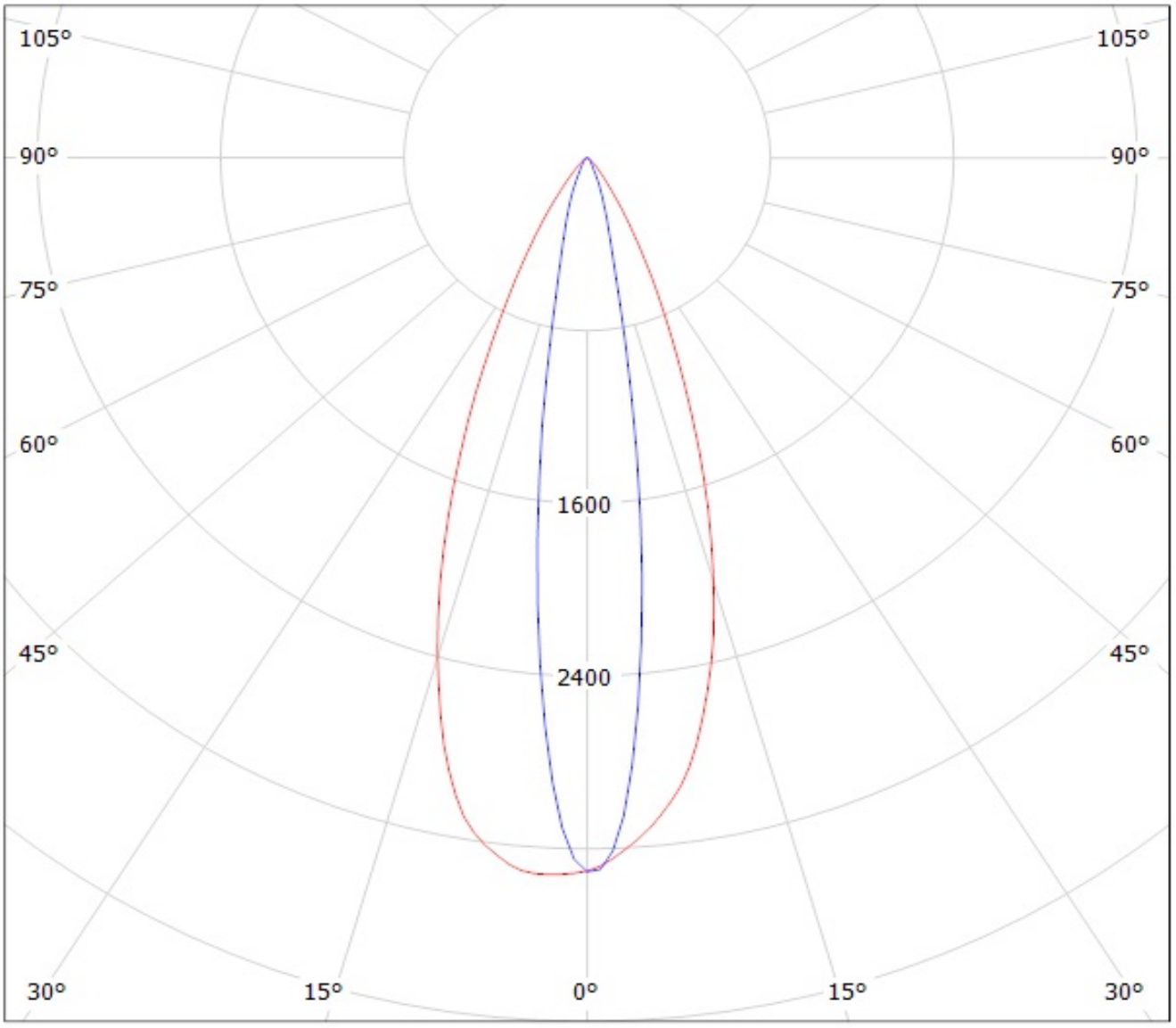
Luminaire: LEDIL OY CA12859_EVA-O / CP12860_EVA-O (XM-L) Efficiency=86%
Lamps: 1 x Cree XM-L (111lm @ 250mA)



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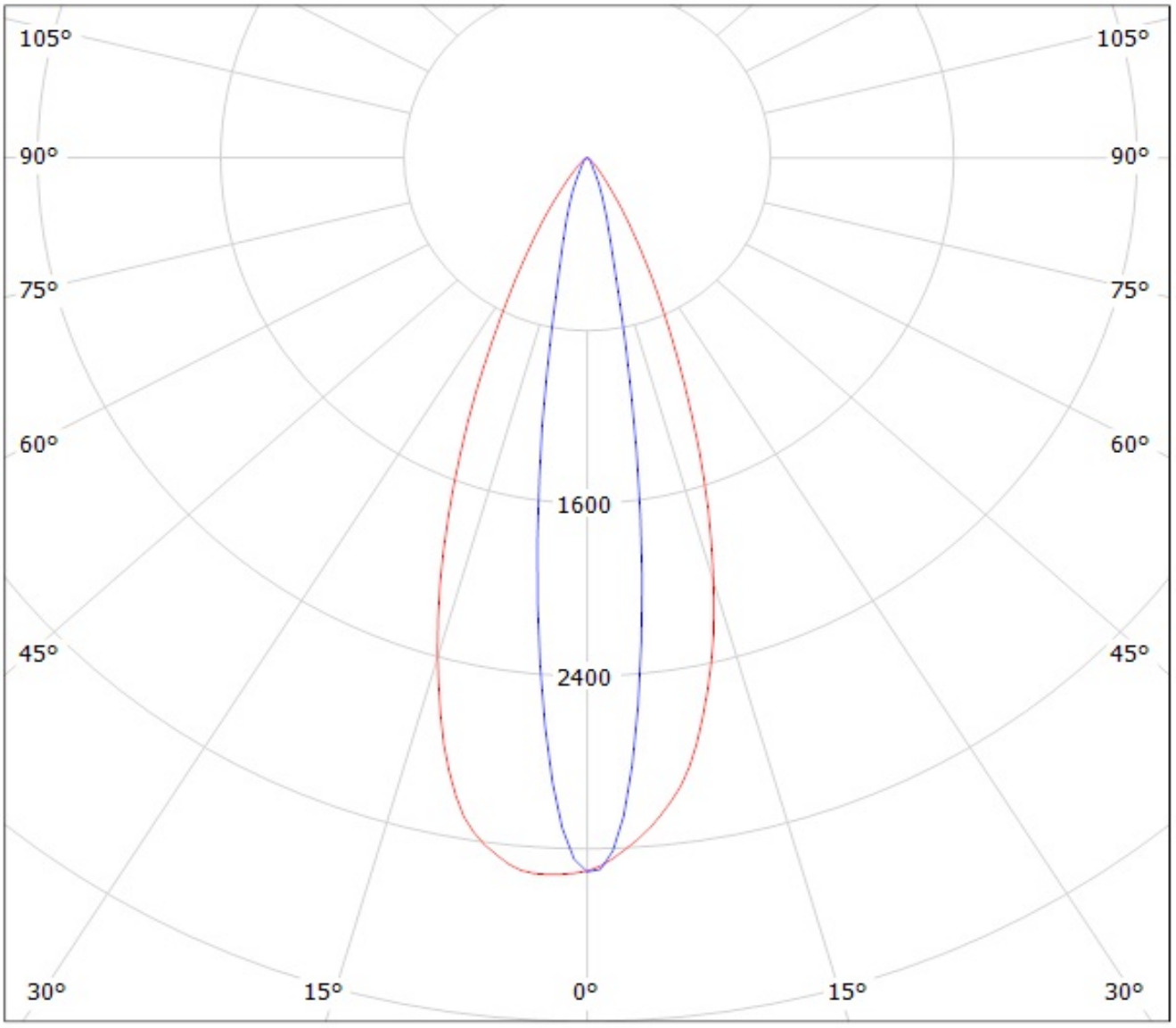
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cd/klm

C0 - C180 C90 - C270

Luminaire: LEDIL OY CA12859_EVA-O / CP12860_EVA-O (XM-L) Efficiency=86%
Lamps: 1 x Cree XM-L (111lm @ 250mA)



cd/klm

C0 - C180 C90 - C270