

**Product number CA13156_EMERALD-A**

Family	EMERALD	FWHM	152+71 degrees
Type	Assembly	Efficiency	93 %
LED	XP-E	cd/lm	2.800
Color	Clear	Gerber File	Available
Diameter	21.6 mm	Emergency escape route lighting.	
Height	7.3 mm	Long rectangular beam.	
Style	Round		
Optic Material	PMMA		
Holder Material	-		
Fastening	["tape", "pin"]		
Status	Production ready		

Product number C13155_EMERALD-A

Family	EMERALD	FWHM	158+73 degrees
Type	Lens	Efficiency	93 %
LED	XP-E	cd/lm	2.300
Color	Clear	Gerber File	Available
Diameter	21.6 mm	Emergency escape route lighting.	
Height	6.9 mm	Long rectangular beam.	
Style	Round		
Optic Material	PMMA		
Holder Material	-		
Fastening	["pin", "glue"]		
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 EMERALD series

last update 13/10/2015

GENERAL INFORMATION

- Product series especially designed & optimized for XP-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:

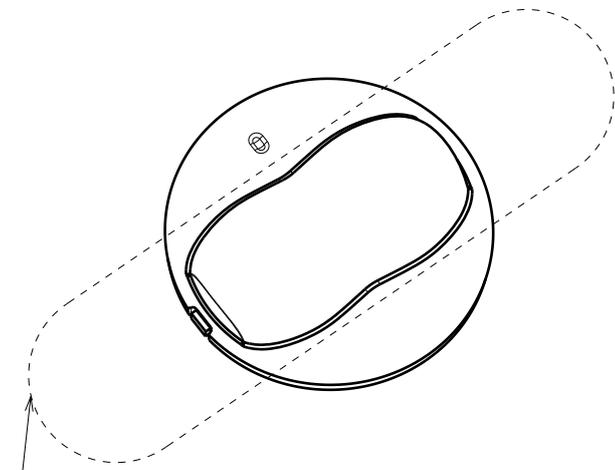
http://ledil.fi/sites/default/files/Documents/Technical/Material/PMMA%20N%20UL94_Yellow%20Card.pdf

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

INDEX	PART NO	DESCRIPTION	MATERIAL
1	CA13156	EMERALD-A	PMMA + PU FOAM adhesive tape

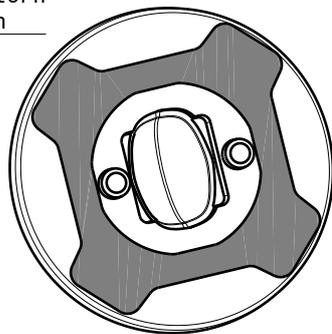
4

Isometric view
Scale: 2:1

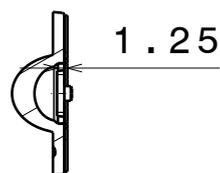


3

Beam pattern direction

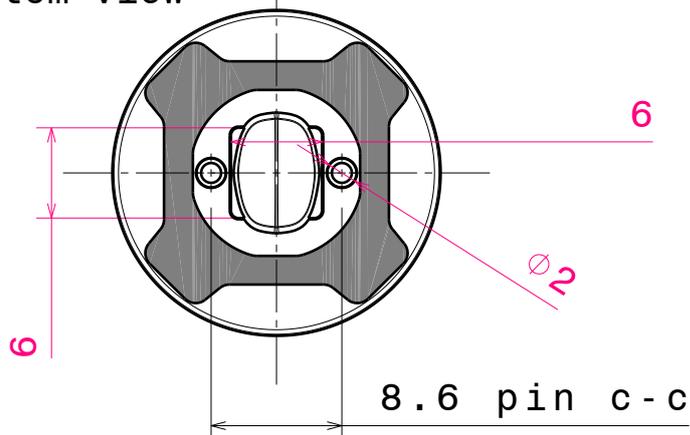


2

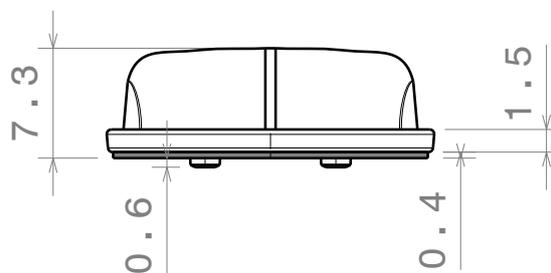


Section view A-A
Scale: 1:1

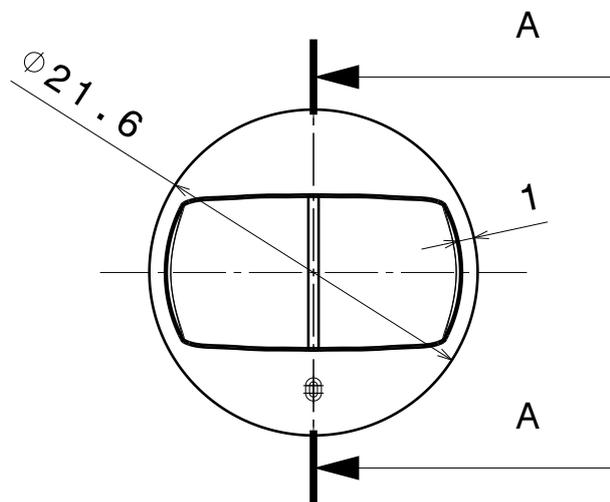
Bottom view



Front view



Top view



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Ledil Oy
Salorankatu 10
FIN 24240 SALO
Finland

DATASHEET TITLE Mechanical Drawing

DRAWN BY
ol
DATE
18.12.2012

CHECKED BY
as
DATE
18.12.2012

DESIGNED BY
ol
DATE
3.10.2012

CA13156 EMERALD-A

SIZE PART NUMBER REV
A4 CA13156 001

SCALE 2:1 WEIGHT SHEET 1/1

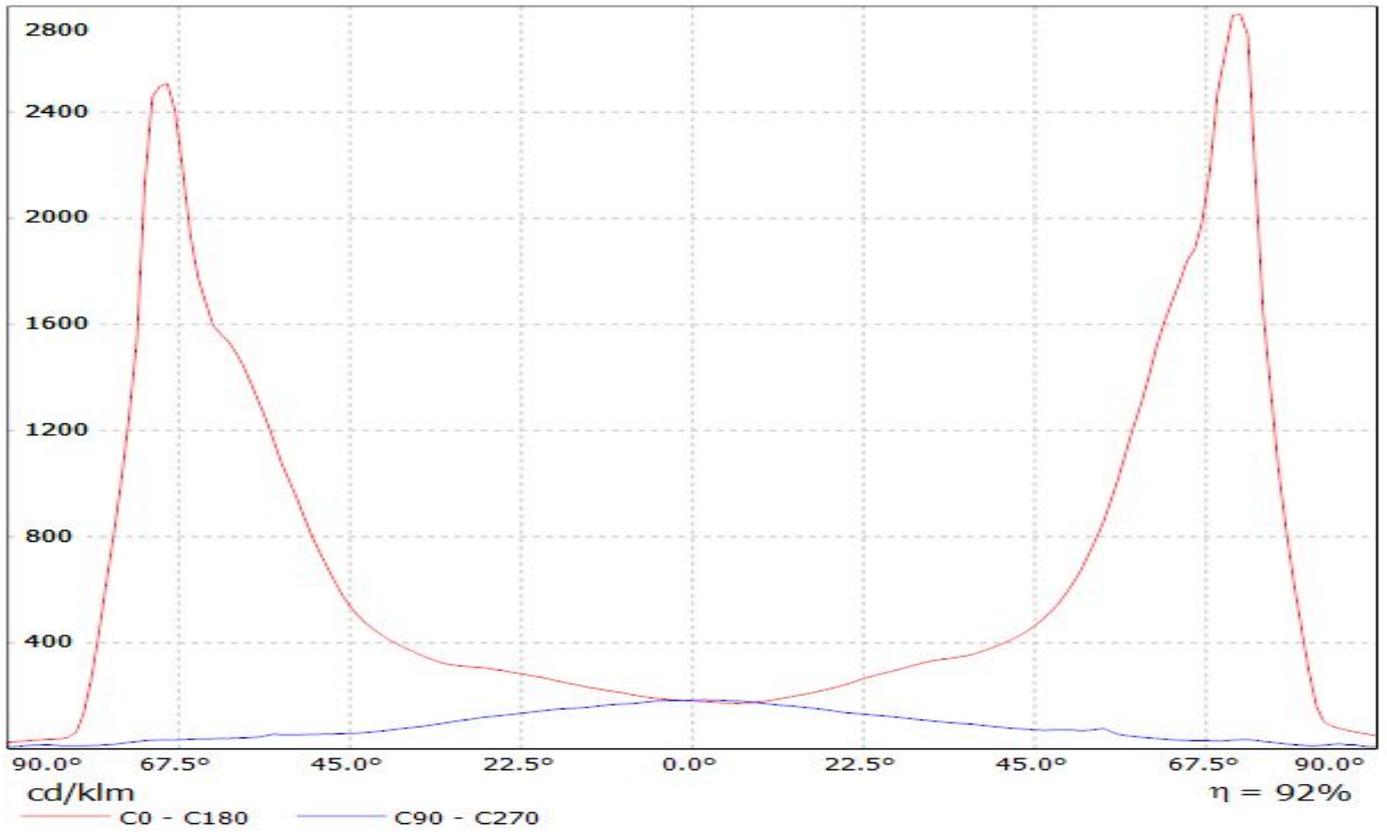
1

D

A

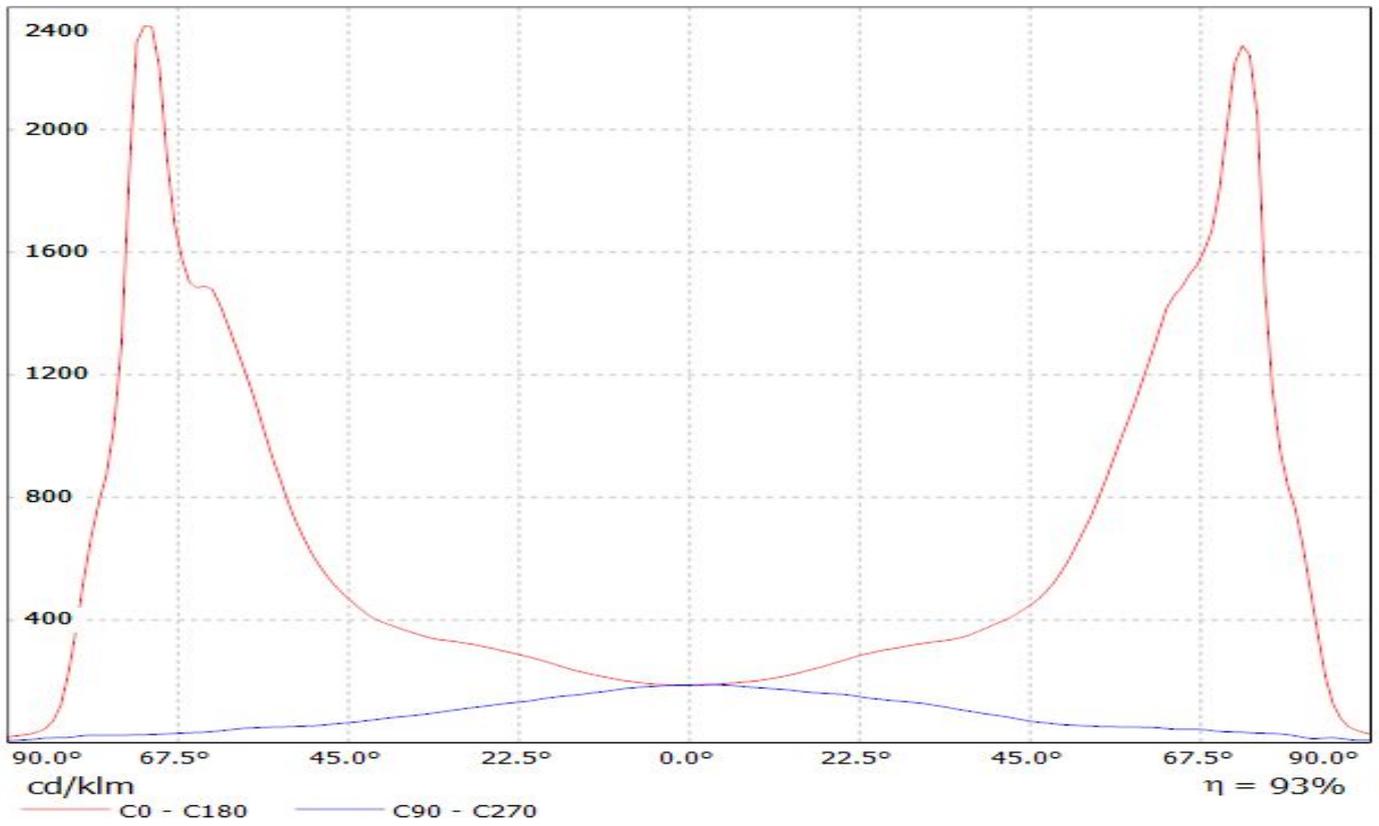
LEDiL Oy CA13156_EMERALD-A_(XP-E) Eff.91.5% / LDC (Linear)

Luminaire: LEDiL Oy CA13156_EMERALD-A_(XP-E) Eff.91.5%
Lamps: 1 x CREE XP-E (51.4197lm@250mA)



LEDiL Oy C13155_EMERALD-A_(XP-E) Eff.93.3% / LDC (Linear)

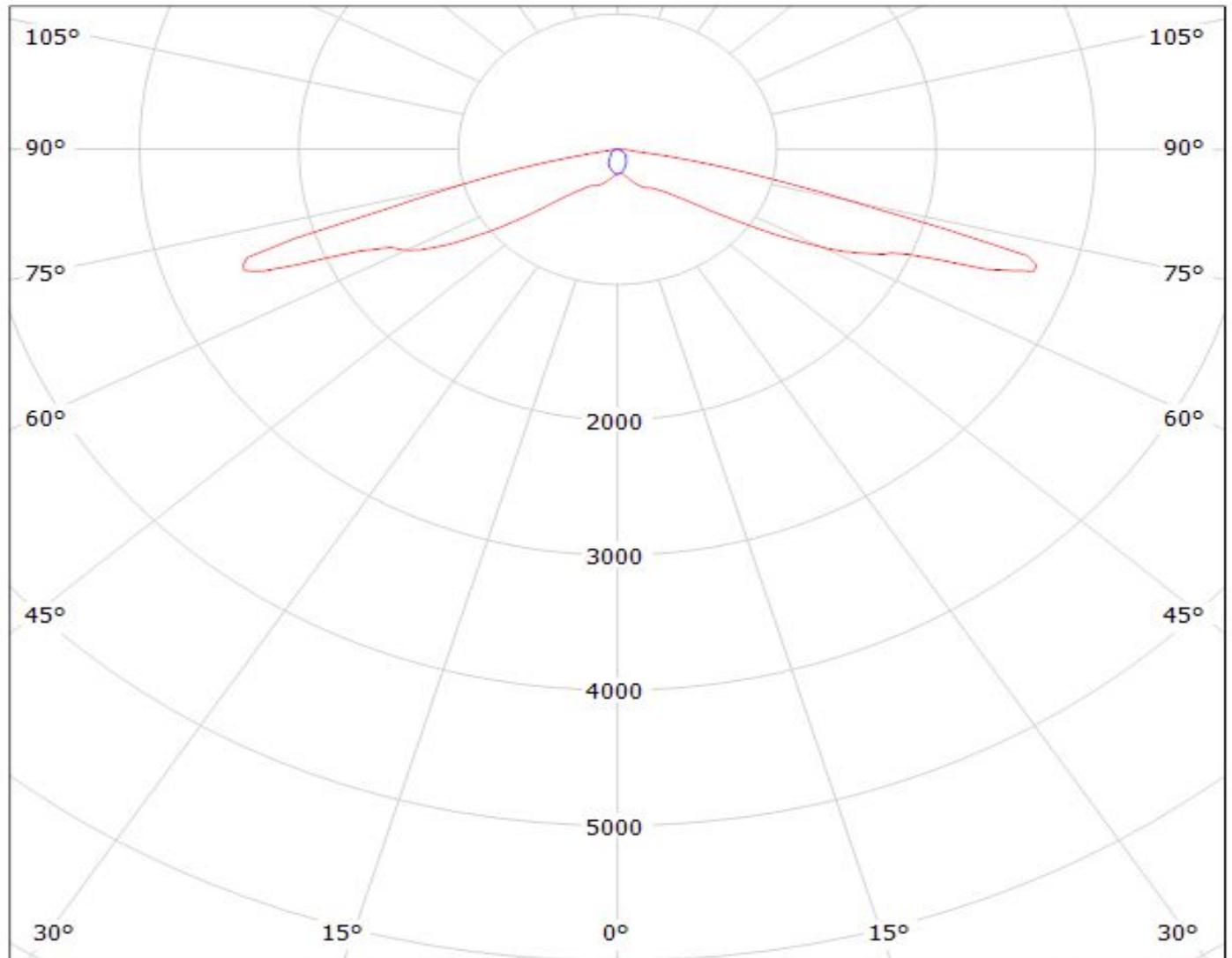
Luminaire: LEDiL Oy C13155_EMERALD-A_(XP-E) Eff.93.3%
Lamps: 1 x CREE XP-E (51.4197lm@250mA)



LEDiL Oy CA13156_EMERALD-A_(XP-E) Eff.91.5% / LDC (Polar)

Luminaire: LEDiL Oy CA13156_EMERALD-A_(XP-E) Eff.91.5%

Lamps: 1 x CREE XP-E (51.4197lm@250mA)



cd/klm

— C0 - C180

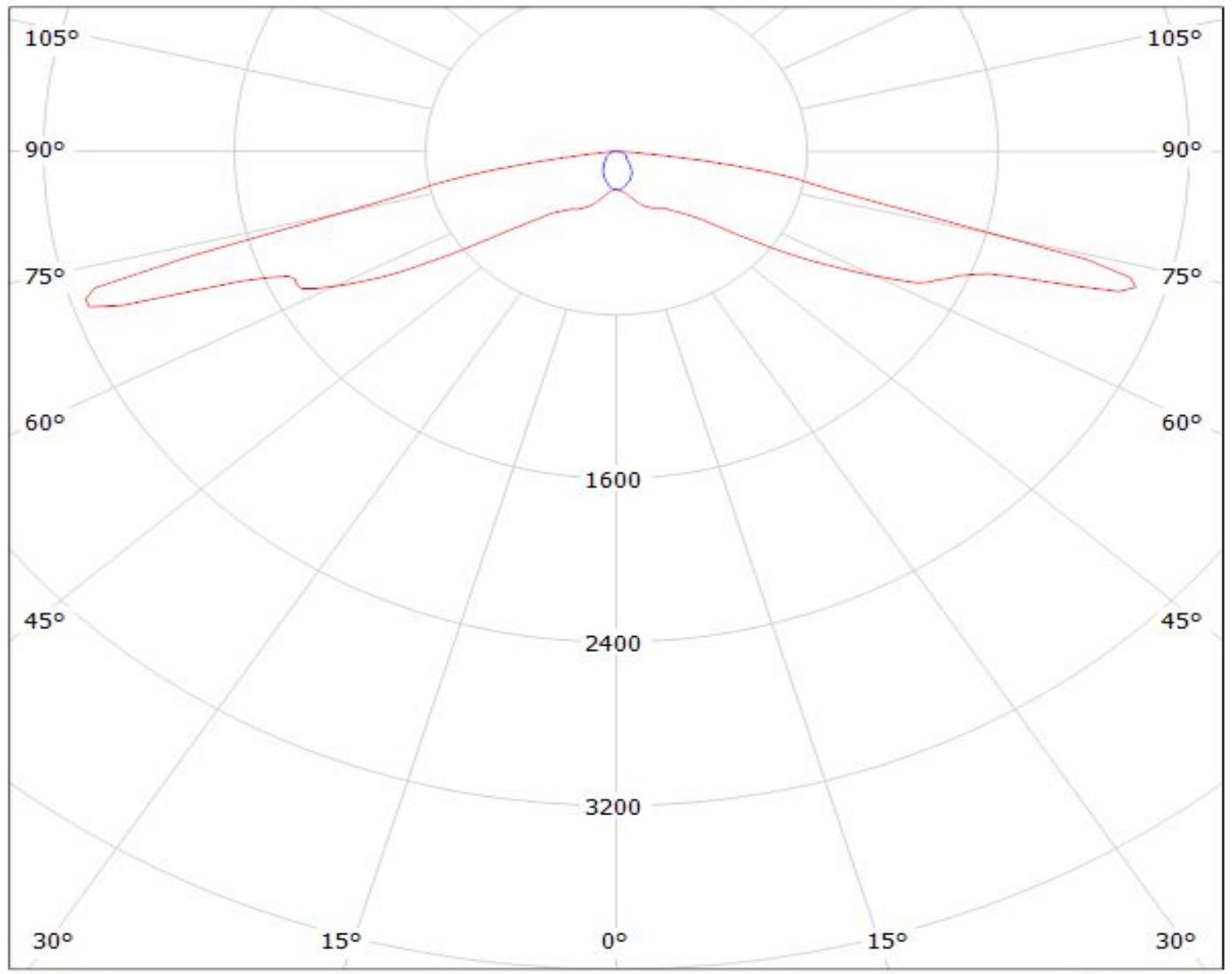
— C90 - C270

$\eta = 92\%$

LEDiL Oy C13155_EMERALD-A_(XP-E) Eff.93.3% / LDC (Polar)

Luminaire: LEDiL Oy C13155_EMERALD-A_(XP-E) Eff.93.3%

Lamps: 1 x CREE XP-E (51.4197lm@250mA)



cd/klm

— C0 - C180

— C90 - C270

$\eta = 93\%$