

## JULIA-A

~90° 160° wide beam

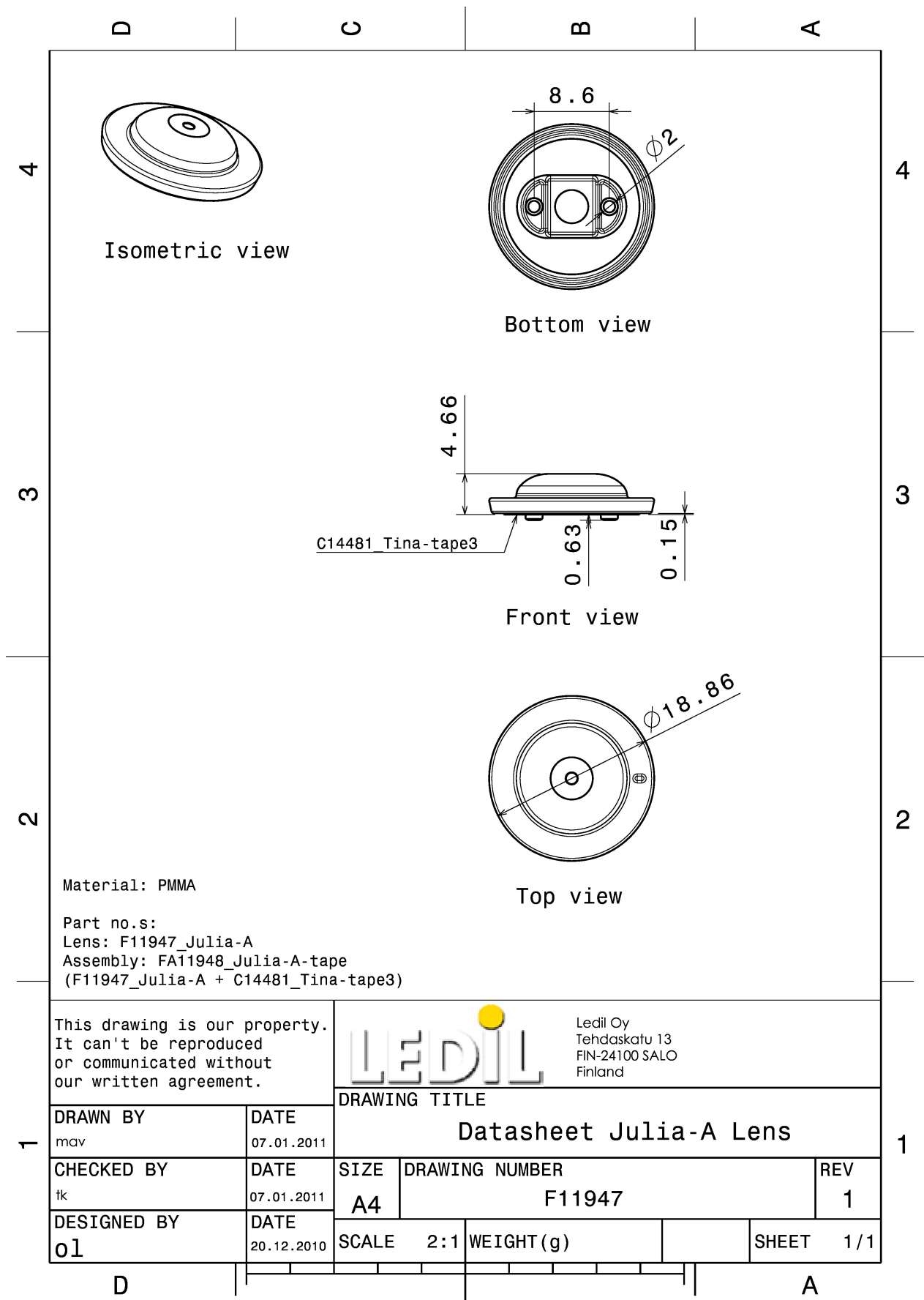
### TECHNICAL SPECIFICATIONS:

Dimensions	Ø 18.86 mm
Height	4.7 mm
Fastening	pin, glue
Colour	clear
Box size	470 x 235 x 270 mm
Box weight	7.9 kg
Quantity in Box	4500 pcs
ROHS compliant	yes ⓘ



### MATERIAL SPECIFICATIONS:

Component	Type	Material	Colour
JULIA-A	Lens	PMMA	clear



### PHOTOMETRIC DATA (MEASURED):

#### CREE

LED XP-E  
FWHM 164.0°  
Efficiency 90 %  
Peak intensity 0.240 cd/lm  
Required components:

#### CREE

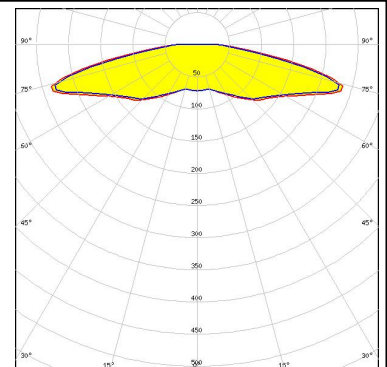
LED XP-G  
FWHM 166.0°  
Efficiency 90 %  
Peak intensity 0.210 cd/lm  
Required components:

#### LUMILEDS

LED LUXEON Rebel  
FWHM 154.0°  
Efficiency 90 %  
Peak intensity 0.260 cd/lm  
Required components:

#### LUMILEDS

LED LUXEON Rebel ES  
FWHM 163.0°  
Efficiency 90 %  
Peak intensity 0.240 cd/lm  
Required components:



## PHOTOMETRIC DATA (MEASURED):



LED NCSxx19A  
FWHM 156.0°  
Efficiency 90 %  
Peak intensity 0.240 cd/lm  
Required components:



LED NVSxx19A  
FWHM 159.0°  
Efficiency 90 %  
Peak intensity 0.240 cd/lm  
Required components:



Opto Semiconductors


LED Oslon SSL 150  
FWHM 159.0°  
Efficiency 90 %  
Peak intensity 0.300 cd/lm  
Required components:



Opto Semiconductors

LED Oslon SSL 80  
FWHM 158.0°  
Efficiency 90 %  
Peak intensity 0.200 cd/lm  
Required components:

## PHOTOMETRIC DATA (MEASURED):

	
SEOUL SEMICONDUCTOR	
LED	Z5
FWHM	160.0°
Efficiency	86 %
Peak intensity	0.270 cd/lm
Required components:	

### GENERAL INFORMATION:

NOTE: The typical beam angle will be changed by different color, chip size and chip position tolerance. The typical total beam angle is the full angle measured where the luminous intensity is half of the peak value.

### MATERIALS:

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#### LEDiL Oy

Joensuunkatu 13  
FI-24240 SALO  
Finland

#### LEDiL Inc.

228 West Page Street  
Suite D  
Sycamore IL 60178  
USA

#### Local sales and technical support

[www.ledil.com/  
where\\_to\\_buy](http://www.ledil.com/where_to_buy)

#### Shipping locations

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