



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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## JULIA-A

~90° 160° wide beam. Assembly with installation tape.

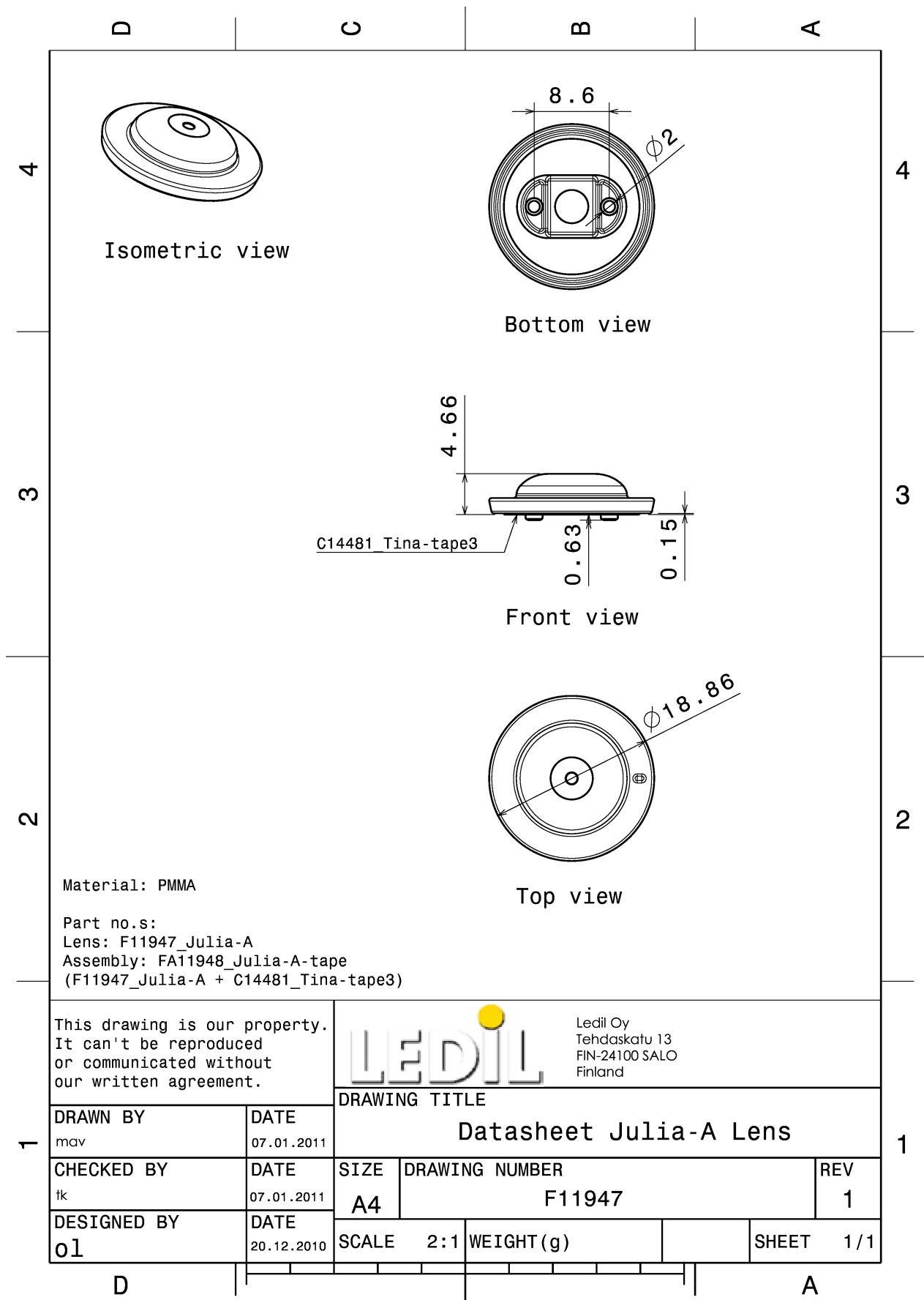
### TECHNICAL SPECIFICATIONS:

Dimensions	Ø 18.8 mm
Height	4.8 mm
Fastening	tape, pin
Colour	clear
Box size	
Box weight	3.7 kg
Quantity in Box	2850 pcs
ROHS compliant	yes ⓘ



### MATERIAL SPECIFICATIONS:

Component	Type	Material	Colour
JULIA-A	Lens	PMMA	clear
TINA-TAPE3	Tape	PU tape	black



## PHOTOMETRIC DATA (MEASURED):

### CREE

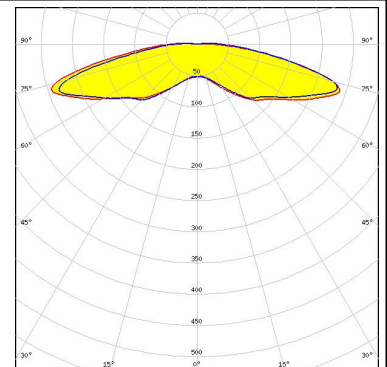
LED XP-E  
FWHM 164.0°  
Efficiency 90 %  
Peak intensity 0.240 cd/lm  
Required components:

### CREE

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

### CREE

LED XP-G3  
FWHM 166.0°  
Efficiency 85 %  
Peak intensity 0.240 cd/lm  
Required components:



### LUMILEDS

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

### PHOTOMETRIC DATA (MEASURED):

#### LUMILEDS

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

#### NICHIA

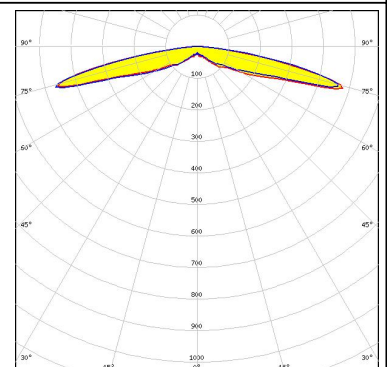
LED NCSxx19A  
FWHM 156.0°  
Efficiency 90 %  
Peak intensity 0.240 cd/lm  
Required components:

#### NICHIA

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

#### OSRAM Opto Semiconductors

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



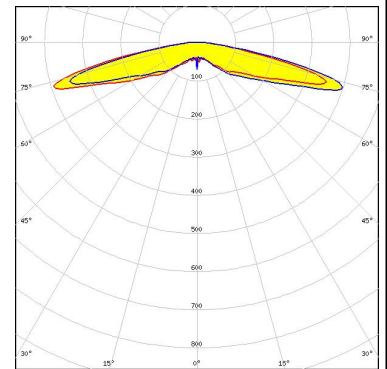
## PHOTOMETRIC DATA (MEASURED):

**OSRAM**  
Opto Semiconductors

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

**SEOL**  
SEOUL SEMICONDUCTOR

LED Z5  
FWHM 160.0°  
Efficiency 86 %  
Peak intensity 0.240 cd/lm  
Required components:



## PHOTOMETRIC DATA (SIMULATED):

**CREE** 

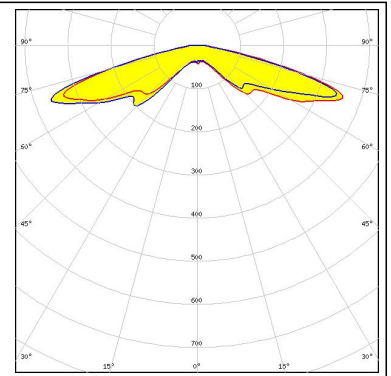
LED J Series 3030

FWHM 153.0°

Efficiency 93 %

Peak intensity 0.370 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:

As part of our continuous research and improvement processes, and to ensure the best possible quality and availability of our products, LEDiL reserves the right to change material grades without notice.

### PRODUCT DATA USER AGREEMENT AND DISCLAIMER:

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