

## JULIA-A

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

### SPECIFICATION:

Dimensions	Ø 18.8 mm
Height	4.8 mm
Fastening	tape, pin
ROHS compliant	yes ⓘ

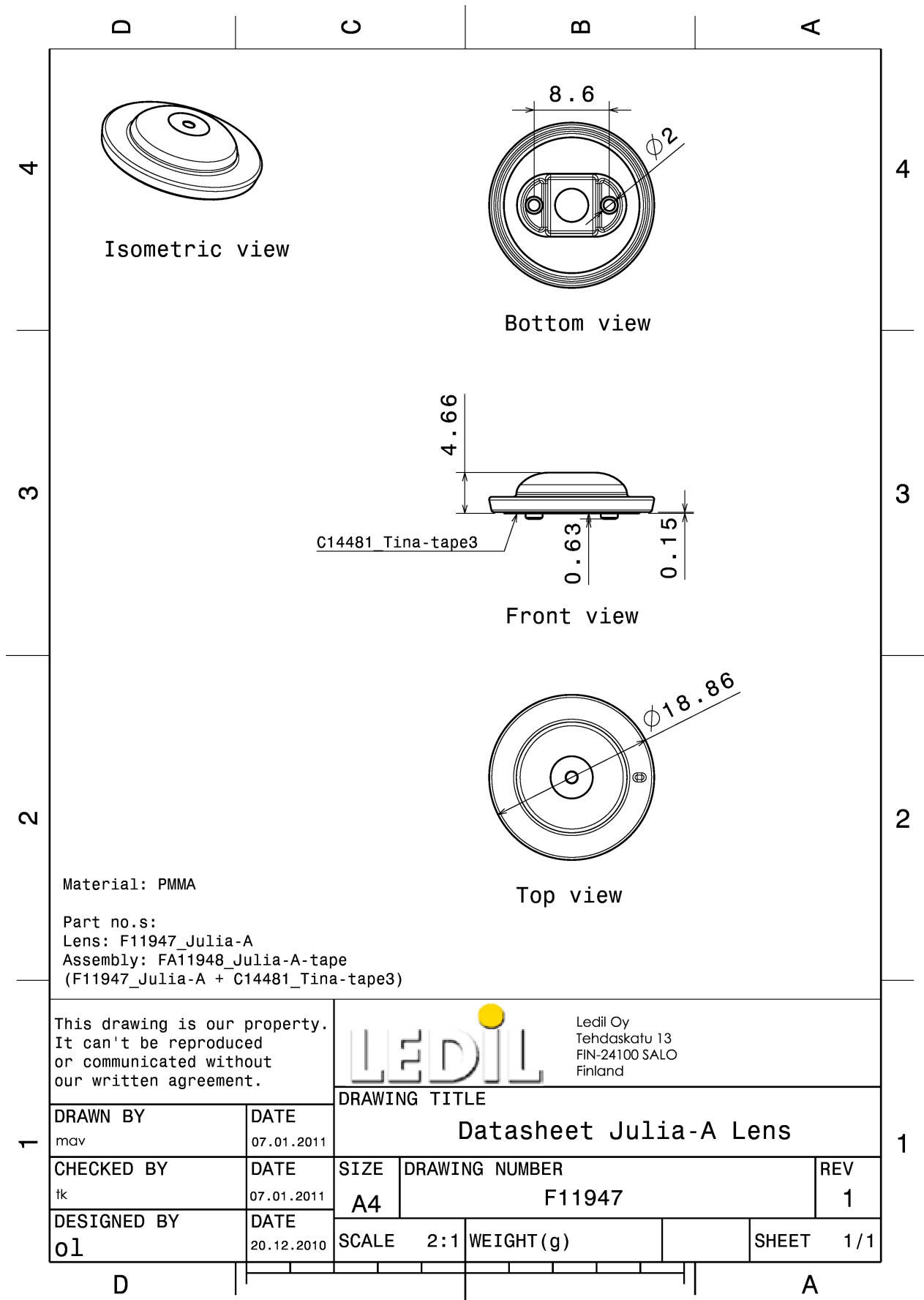


### MATERIALS:

Component	Type	Material	Colour	Finish
JULIA-A	Single lens	PMMA	clear	
TINA-TAPE3	Tape	Acrylic foam	black	

### ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
FA11948_JULIA-A	Single lens	2850	300	150	3.7
» Box size:					



See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

### OPTICAL RESULTS (MEASURED):

#### CREE LED

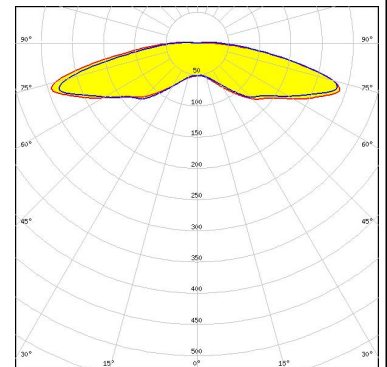
LED XP-E  
FWHM / FWTM 164.0°  
Efficiency 90 %  
Peak intensity 0.2 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:

#### CREE LED

LED XP-G  
FWHM / FWTM 166.0°  
Efficiency 90 %  
Peak intensity 0.2 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:

#### CREE LED

LED XP-G3  
FWHM / FWTM 166.0° / 187.0°  
Efficiency 85 %  
Peak intensity 0.2 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



#### LUMILEDS

LED LUXEON Rebel  
FWHM / FWTM 154.0°  
Efficiency 90 %  
Peak intensity 0.3 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:

### OPTICAL RESULTS (MEASURED):

#### LUMILEDS

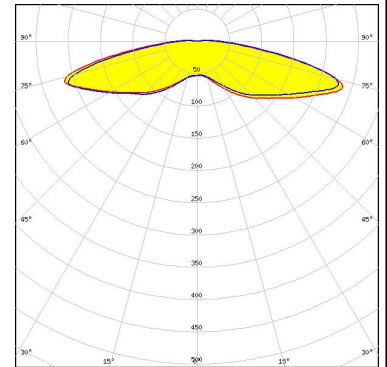
LED LUXEON Rebel ES  
FWHM / FWTM 163.0°  
Efficiency 90 %  
Peak intensity 0.2 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:

#### NICHIA

LED NCSxx19A  
FWHM / FWTM 156.0°  
Efficiency 90 %  
Peak intensity 0.2 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:

#### NICHIA

LED NVSW219F  
FWHM / FWTM 166.0° / 186.0°  
Efficiency 82 %  
Peak intensity 0.2 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



#### NICHIA

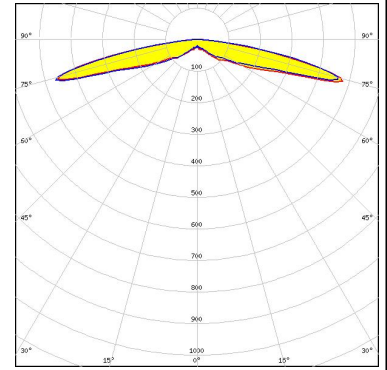
LED NVSxx19A  
FWHM / FWTM 159.0°  
Efficiency 90 %  
Peak intensity 0.2 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:

### OPTICAL RESULTS (MEASURED):

#### OSRAM

Opto Semiconductors

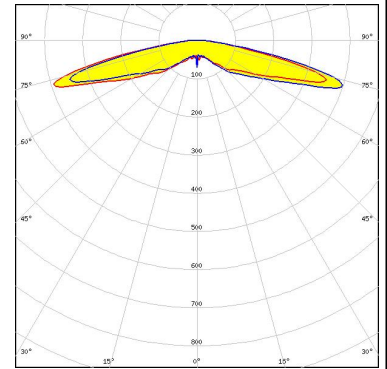
LED OSLON SSL 150  
 FWHM / FWTM 159.0°  
 Efficiency 90 %  
 Peak intensity 0.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### OSRAM

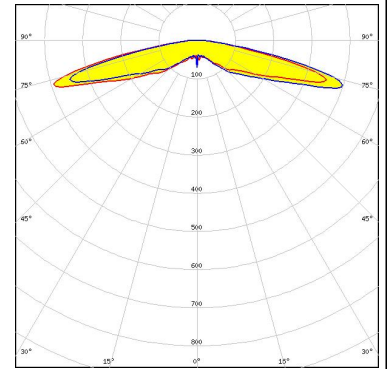
Opto Semiconductors

LED OSLON SSL 80  
 FWHM / FWTM 158.0°  
 Efficiency 90 %  
 Peak intensity 0.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



SEOUL SEMICONDUCTOR

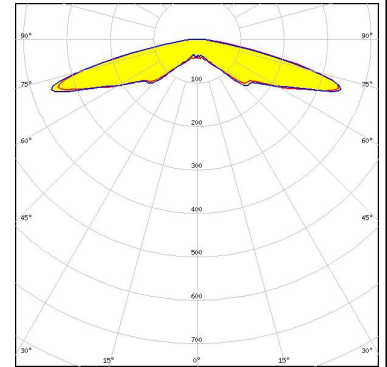
LED Z5  
 FWHM / FWTM 160.0°  
 Efficiency 86 %  
 Peak intensity 0.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



### OPTICAL RESULTS (SIMULATED):

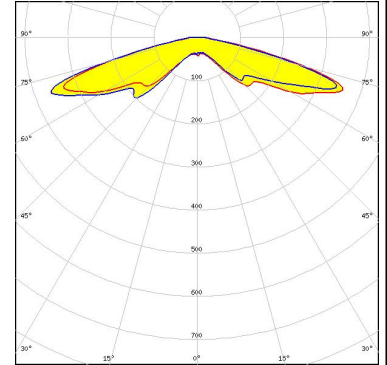
#### CREE LED

LED J Series 2835  
 FWHM / FWTM 155.0° / 169.0°  
 Efficiency 93 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



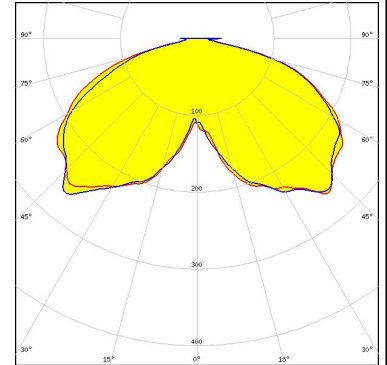
#### CREE LED

LED J Series 3030  
 FWHM / FWTM 153.0° / 166.0°  
 Efficiency 93 %  
 Peak intensity 0.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



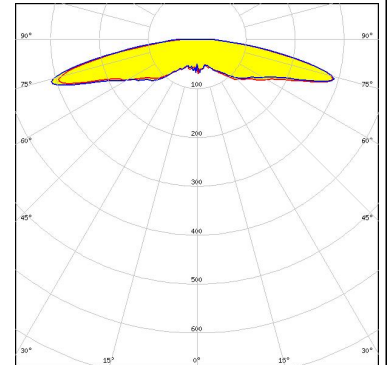
#### CREE LED

LED XE-G  
 FWHM / FWTM 141.0° / 169.0°  
 Efficiency 97 %  
 Peak intensity 0.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

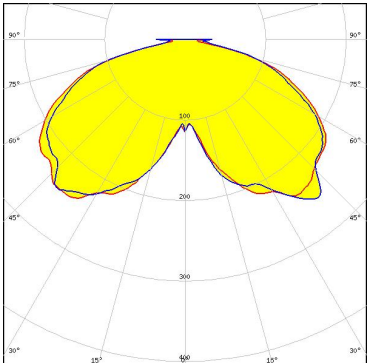
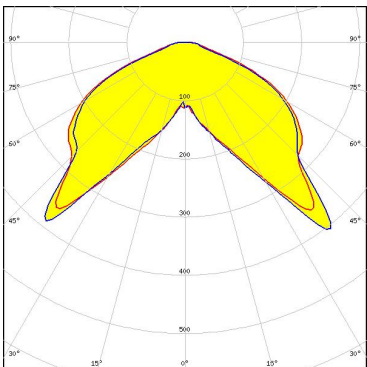
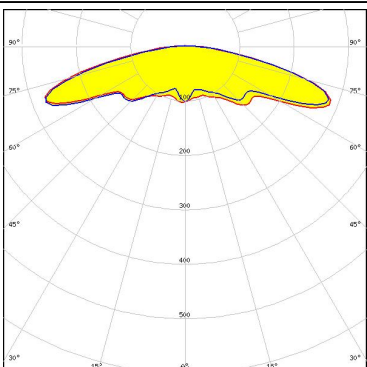
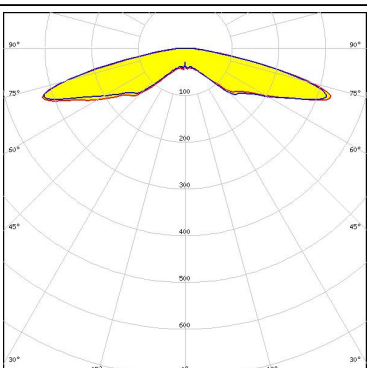


#### CREE LED

LED XP-G2 HE  
 FWHM / FWTM 162.0° / 180.0°  
 Efficiency 89 %  
 Peak intensity 0.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



### OPTICAL RESULTS (SIMULATED):

<p><b>LUMILEDS</b></p> <p>LED: LUXEON IR Compact            FWHM / FWTM: 141.0° / 167.0°            Efficiency: 97 %            LEDs/each optic: 1            Light colour: IR            Required components:</p>	
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED: Duris E 2835            FWHM / FWTM: 122.0° / 150.0°            Efficiency: 98 %            Peak intensity: 0.4 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:</p>	
<p><b>SAMSUNG</b></p> <p>LED: LH351C            FWHM / FWTM: 158.0° / 176.0°            Efficiency: 95 %            Peak intensity: 0.3 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:</p>	
<p><b>SAMSUNG</b></p> <p>LED: LM301B            FWHM / FWTM: 156.0° / 172.0°            Efficiency: 90 %            Peak intensity: 0.3 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:</p>	

### 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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