

## SANDRA-12-M

~30° medium beam

### SPECIFICATION:

Dimensions	Ø 67.0 mm
Height	11.1 mm
Fastening	glue, pin
ROHS compliant	yes ⓘ

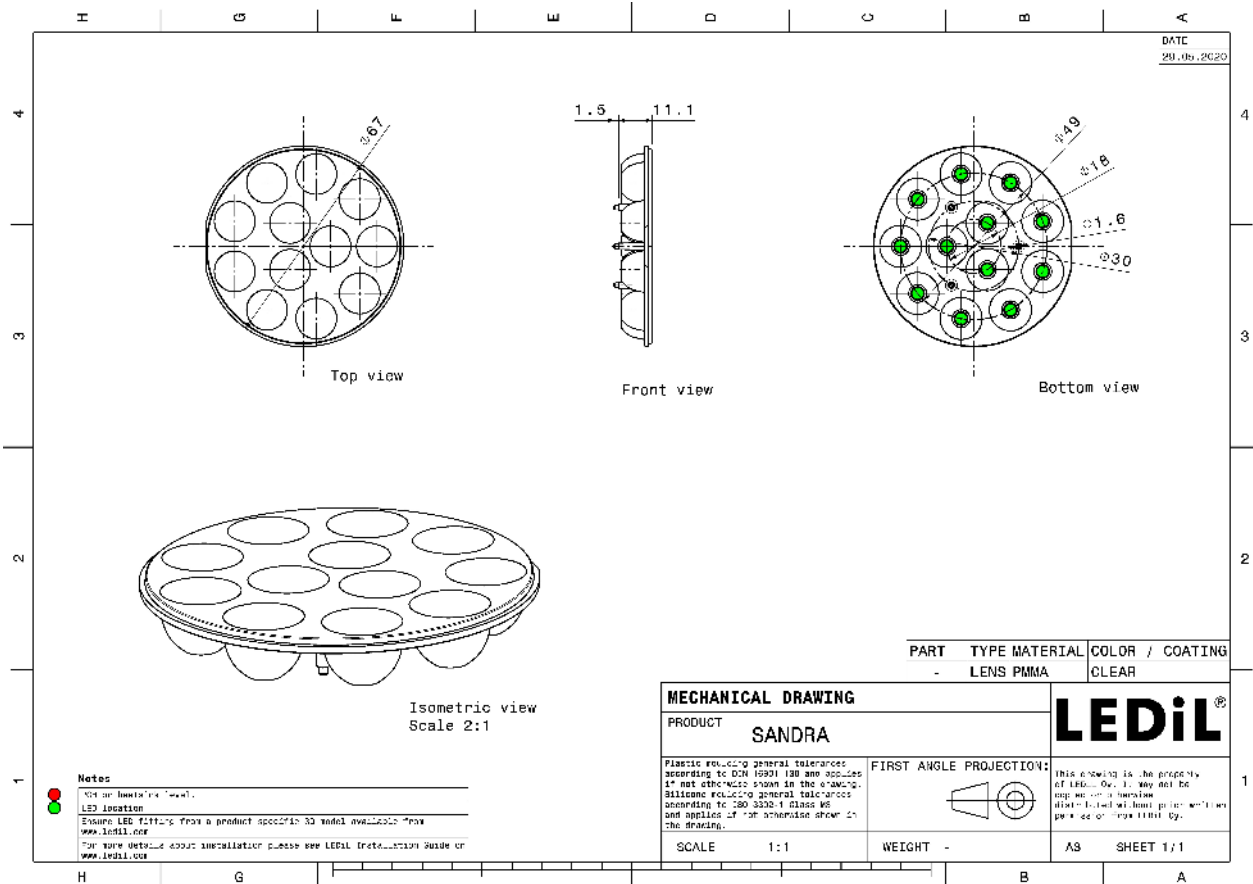
### MATERIALS:

Component	Type	Material	Colour	Finish
SANDRA-12-M	Multi-lens	PMMA	clear	

### ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
C11814_SANDRA-12-M » Box size: 480 x 280 x 300 mm	306		18	7.1



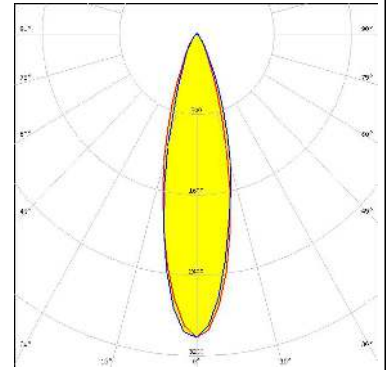


See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

### OPTICAL RESULTS (MEASURED):

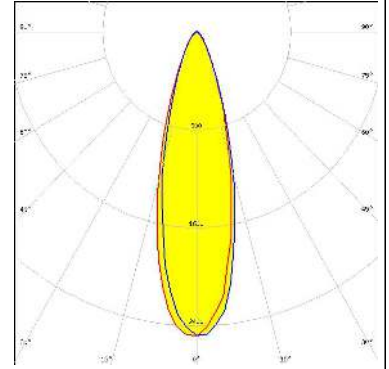
#### CREE LED

LED XP-E  
 FWHM / FWTM 26.0° / 50.0°  
 Efficiency 83 %  
 Peak intensity 3 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:



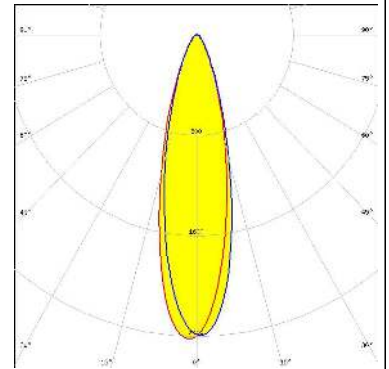
#### CREE LED

LED XP-G  
 FWHM / FWTM 28.0° / 58.0°  
 Efficiency 91 %  
 Peak intensity 2.5 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:



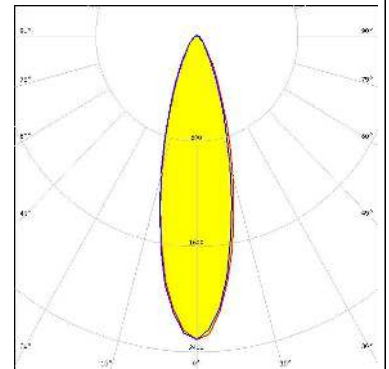
#### NICHIA

LED NCSxx19A  
 FWHM / FWTM 27.0° / 57.0°  
 Efficiency 86 %  
 Peak intensity 2.4 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### NICHIA

LED NVSxx19A  
 FWHM / FWTM 30.0° / 62.0°  
 Efficiency 86 %  
 Peak intensity 2.3 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:



### OPTICAL RESULTS (MEASURED):

 <p>OSRAM Opto Semiconductors</p>		
LED	OSLON SSL 80	
FWHM / FWTM	28.0° / 56.0°	
Efficiency	90 %	
Peak intensity	2.7 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components:		
 <p>SEOL SEMICONDUCTOR</p>		
LED	Z5	
FWHM / FWTM	28.0°	
Efficiency	%	
LEDs/each optic	1	
Light colour	White	
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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