

## SANDRA-12-W

~30° wide beam

### TECHNICAL SPECIFICATIONS:

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

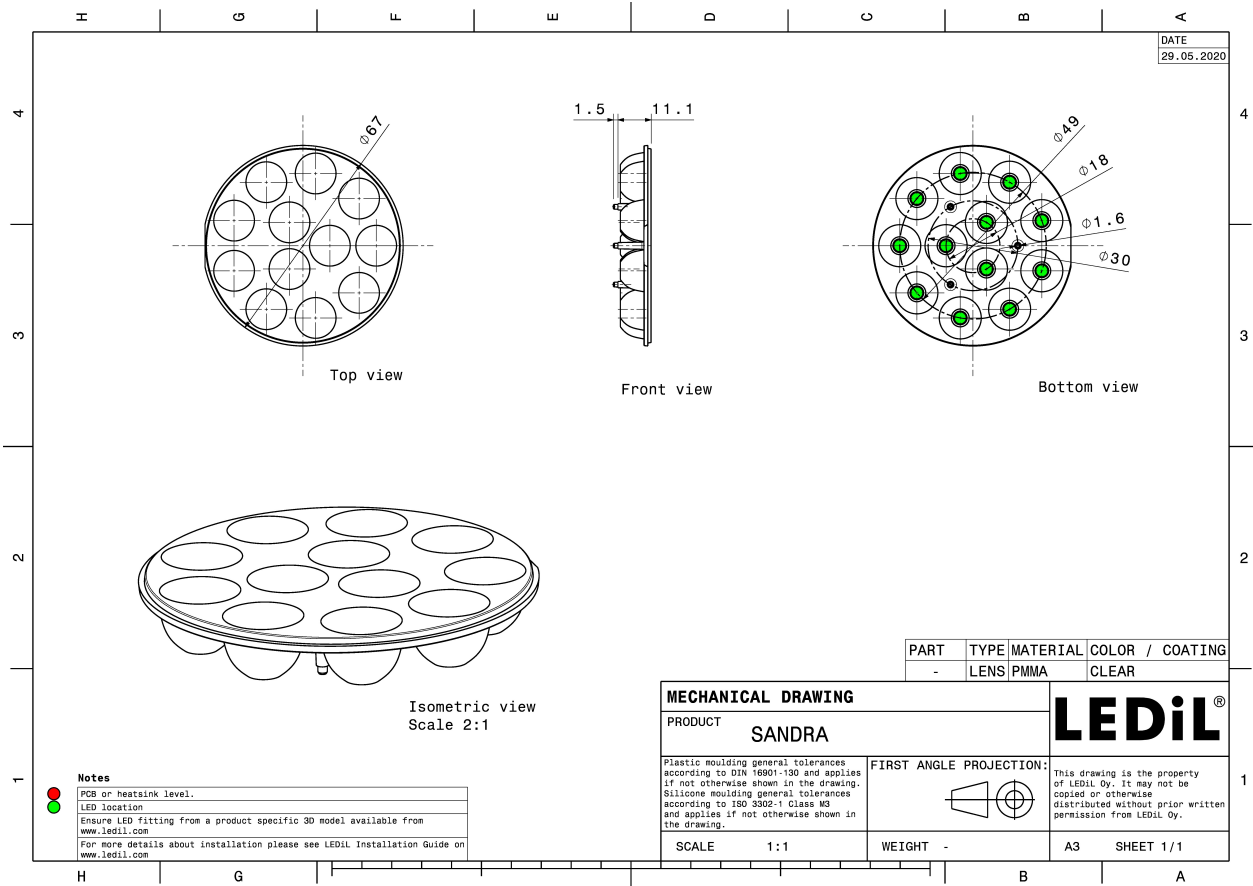


### MATERIAL SPECIFICATIONS:

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


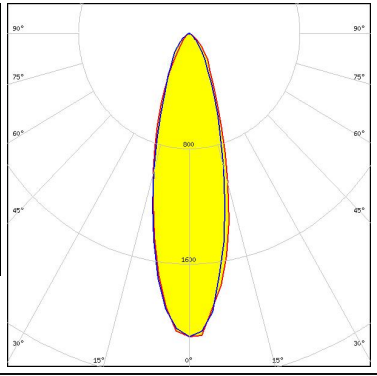
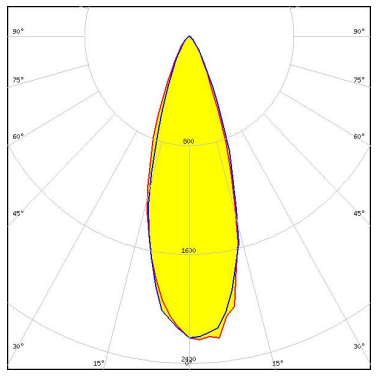
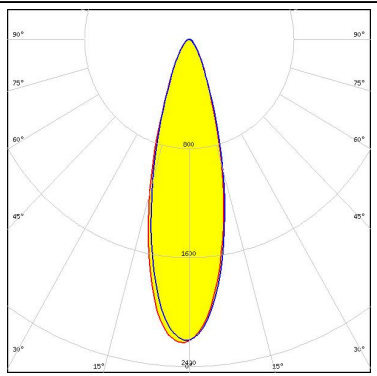
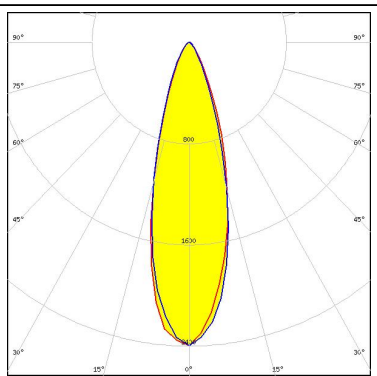
### ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
C11700_SANDRA-12-W » Box size: 480 x 280 x 300 mm	306	306	18	7.9



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

#### PHOTOMETRIC DATA (MEASURED):

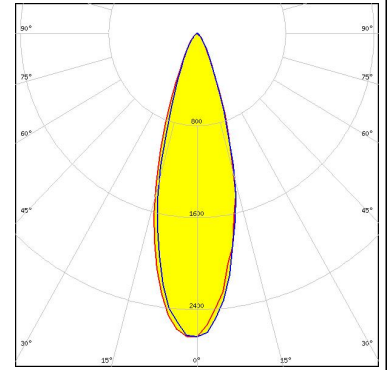
<p><b>CREE</b> → <b>LED</b></p> <p>LED: XP-E            FWHM / FWTM: 30.0° / 76.0°            Efficiency: 84 %            Peak intensity: 2.1 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:</p>		
<p><b>CREE</b> → <b>LED</b></p> <p>LED: XP-G            FWHM / FWTM: 34.0° / 60.0°            Efficiency: 91 %            Peak intensity: 2.2 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:</p>		
<p><b>NICHIA</b></p> <p>LED: NCSxx19A            FWHM / FWTM: 29.0° / 59.0°            Efficiency: 87 %            Peak intensity: 2.2 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:</p>		
<p><b>NICHIA</b></p> <p>LED: NVSxx19A            FWHM / FWTM: 30.0° / 62.0°            Efficiency: 87 %            Peak intensity: 2.4 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:</p>		

### PHOTOMETRIC DATA (MEASURED):

#### OSRAM

Opto Semiconductors

LED OSLO<sup>®</sup> SSL 80  
FWHM / FWTM 30.0° / 54.0°  
Efficiency 90 %  
Peak intensity 2.6 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



#### SEOLUX

SEOUL SEMICONDUCTOR

LED Z5  
FWHM / FWTM 36.0°  
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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