

SANDRA-12-O

~40° + 20° oval beam

SPECIFICATION:

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

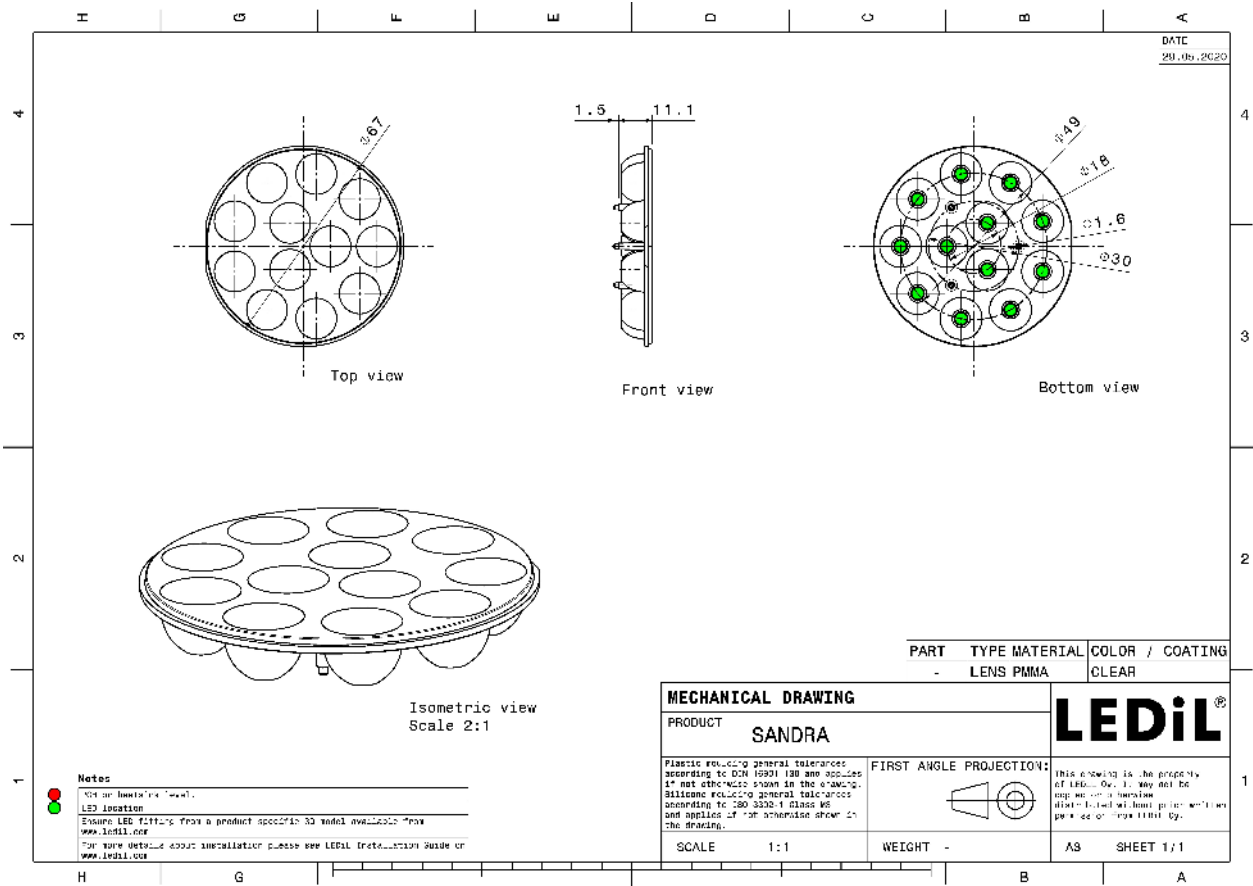
MATERIALS:

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




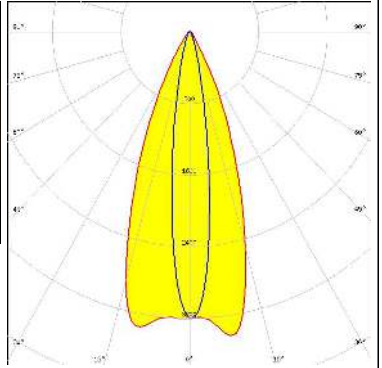
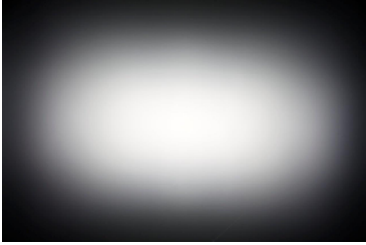
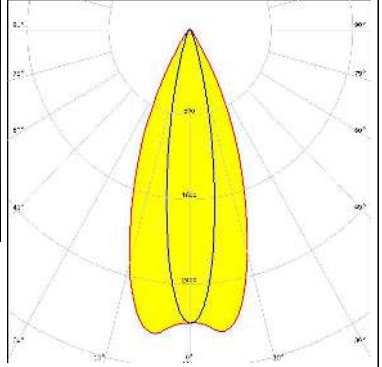
ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
C14250_SANDRA-12-O » Box size: 480 x 280 x 300 mm	306		18	7.4



See also our general installation guide: www.ledil.com/installation_guide

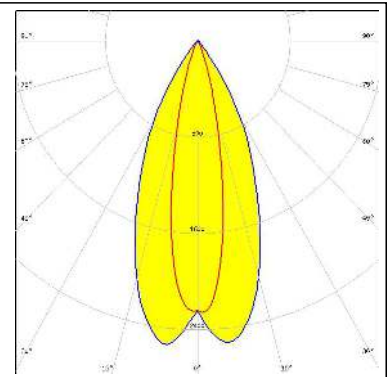
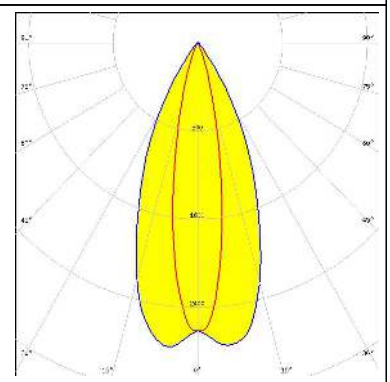
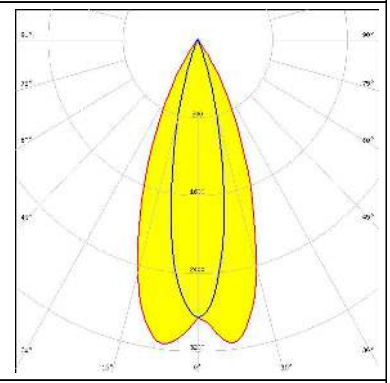
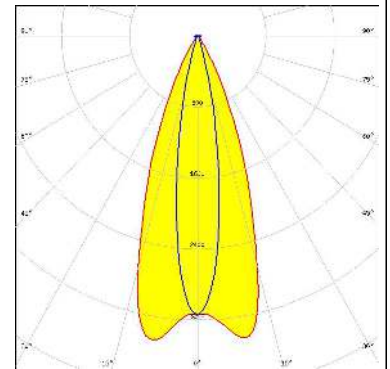
OPTICAL RESULTS (MEASURED):

<p>CREE ⇄ LED</p> <p>LED: XP-E2 FWHM / FWTM: 40.0 + 15.0° Efficiency: 91 % Peak intensity: 3.4 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>		
<p>CREE ⇄ LED</p> <p>LED: XP-G2 FWHM / FWTM: 42.0 + 19.0° Efficiency: 90 % Peak intensity: 2.8 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>		

OPTICAL RESULTS (SIMULATED):

<p>CREE ⇄ LED</p> <p>LED: XD16 FWHM / FWTM: 18.0 + 11.0° / 33.0 + 20.0° Efficiency: 94 % Peak intensity: 12 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>	
<p>CREE ⇄ LED</p> <p>LED: XP-G3 FWHM / FWTM: 44.0 + 21.0° / 71.0 + 40.0° Efficiency: 94 % Peak intensity: 2.7 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>	
<p>CREE ⇄ LED</p> <p>LED: XP-L2 FWHM / FWTM: 22.0 + 42.0° / 47.0 + 72.0° Efficiency: 94 % Peak intensity: 2.4 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>	
<p>CREE ⇄ LED</p> <p>LED: XT-E FWHM / FWTM: 39.0 + 17.0° / 65.0 + 32.0° Efficiency: 92 % Peak intensity: 3.7 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>	

OPTICAL RESULTS (SIMULATED):

<p>LUMILEDS</p> <p>LED LUXEON HL2X</p> <p>FWHM / FWTM 22.0 + 46.0° / 40.0 + 74.0°</p> <p>Efficiency 95 %</p> <p>Peak intensity 2.5 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	
<p>SAMSUNG</p> <p>LED LH351C</p> <p>FWHM / FWTM 20.0 + 46.0° / 39.0 + 71.0°</p> <p>Efficiency 96 %</p> <p>Peak intensity 2.8 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	
<p>SEOUL SEMICONDUCTOR</p> <p>LED Z5M4</p> <p>FWHM / FWTM 22.0 + 42.0° / 40.0 + 66.0°</p> <p>Efficiency 95 %</p> <p>Peak intensity 3.1 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	
<p>SEOUL SEMICONDUCTOR</p> <p>LED Z8Y19</p> <p>FWHM / FWTM 18.0 + 40.0° / 34.0 + 60.0°</p> <p>Efficiency 93 %</p> <p>Peak intensity 3.5 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	

OPTICAL RESULTS (SIMULATED):



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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