

## LISA3-WW-CLIP16

~45° wide beam with clip installation.

### SPECIFICATION:

Dimensions	Ø 9.9 mm
Height	7 mm
Fastening	clips
ROHS compliant	yes ⓘ

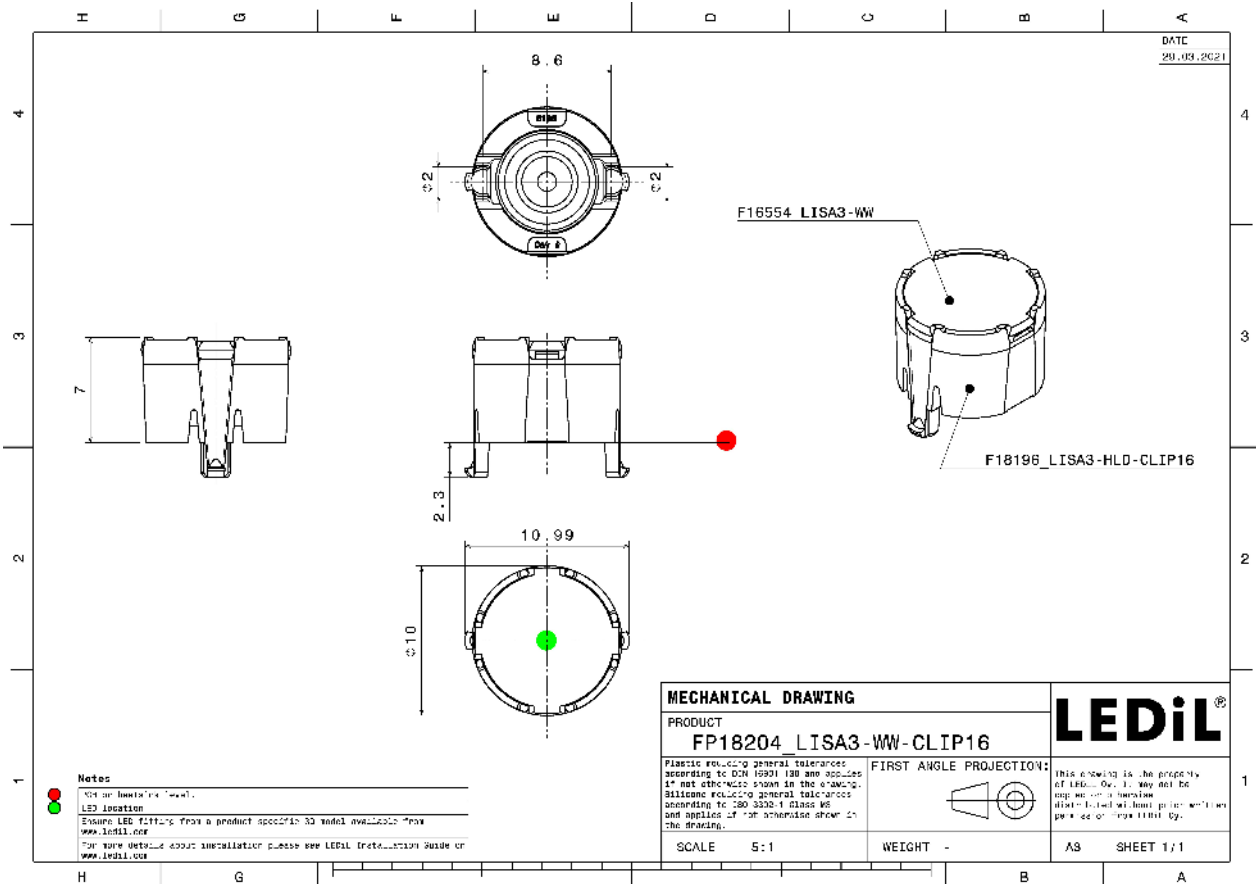
### MATERIALS:

Component	Type	Material	Colour	Finish
LISA3-WW	Single lens	PMMA	clear	
LISA3-HLD-CLIP16	Holder	PC	black	



### ORDERING INFORMATION:

Component	Type	Qty in box	MOQ	MPQ	Box weight (kg)
FP18204_LISA3-WW-CLIP16	Single lens	2000	300	100	1.4
» Box size: 310 x 230 x 60 mm					

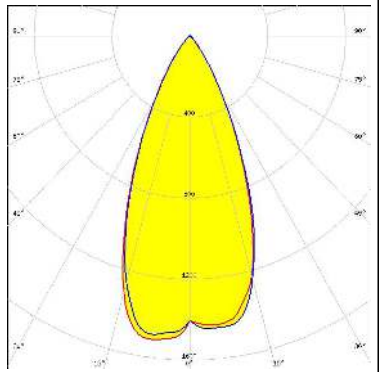
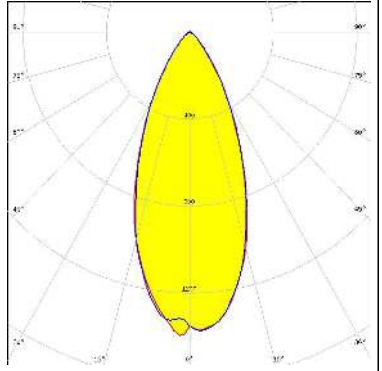
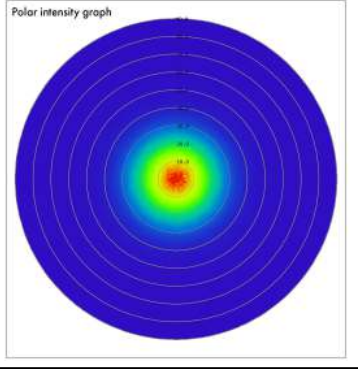
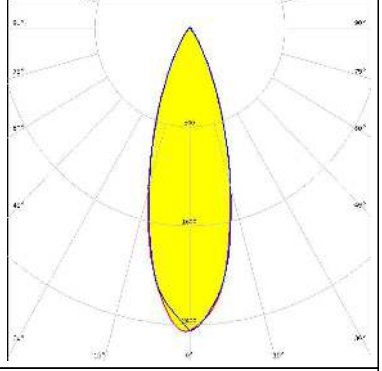
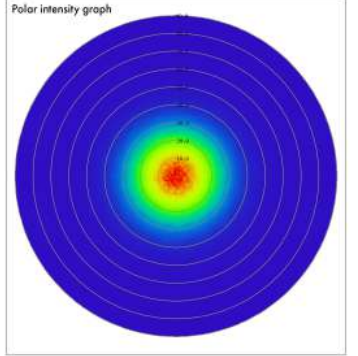
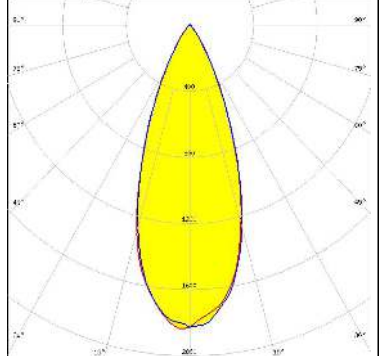


See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

#### OPTICAL RESULTS (MEASURED):

<p><b>CREE</b> LED</p> <p>LED: XP-G3            FWHM / FWTM: 46.0° / 82.0°            Efficiency: 83 %            Peak intensity: 1.2 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:</p>		
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED: OSLON Square CSSRM2/CSSRM3            FWHM / FWTM: 43.0° / 77.0°            Efficiency: 86 %            Peak intensity: 1.4 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:</p>		

#### OPTICAL RESULTS (SIMULATED):

<p><b>LUMILEDS</b></p> <p>LED: LUXEON Rubix</p> <p>FWHM / FWTM: 46.0° / 72.0°</p> <p>Efficiency: 91 %</p> <p>Peak intensity: 1.5 cd/lm</p> <p>LEDs/each optic: 1</p> <p>Light colour: White</p> <p>Required components:</p>		
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED: OSCONIQ P 3737 (3W version)</p> <p>FWHM / FWTM: 43.0° / 79.0°</p> <p>Efficiency: 88 %</p> <p>Peak intensity: 1.4 cd/lm</p> <p>LEDs/each optic: 1</p> <p>Light colour: White</p> <p>Required components:</p>		
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED: SFH 4715S</p> <p>FWHM / FWTM: 32.0° / 59.0°</p> <p>Efficiency: 89 %</p> <p>LEDs/each optic: 1</p> <p>Light colour: IR</p> <p>Required components:</p>	<p>Polar intensity graph</p> 	
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED: SFH 4716S</p> <p>FWHM / FWTM: 38.0° / 65.0°</p> <p>Efficiency: 87 %</p> <p>LEDs/each optic: 1</p> <p>Light colour: IR</p> <p>Required components:</p>	<p>Polar intensity graph</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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