

LISA3-M-PIN

~25° medium beam with location pin installation

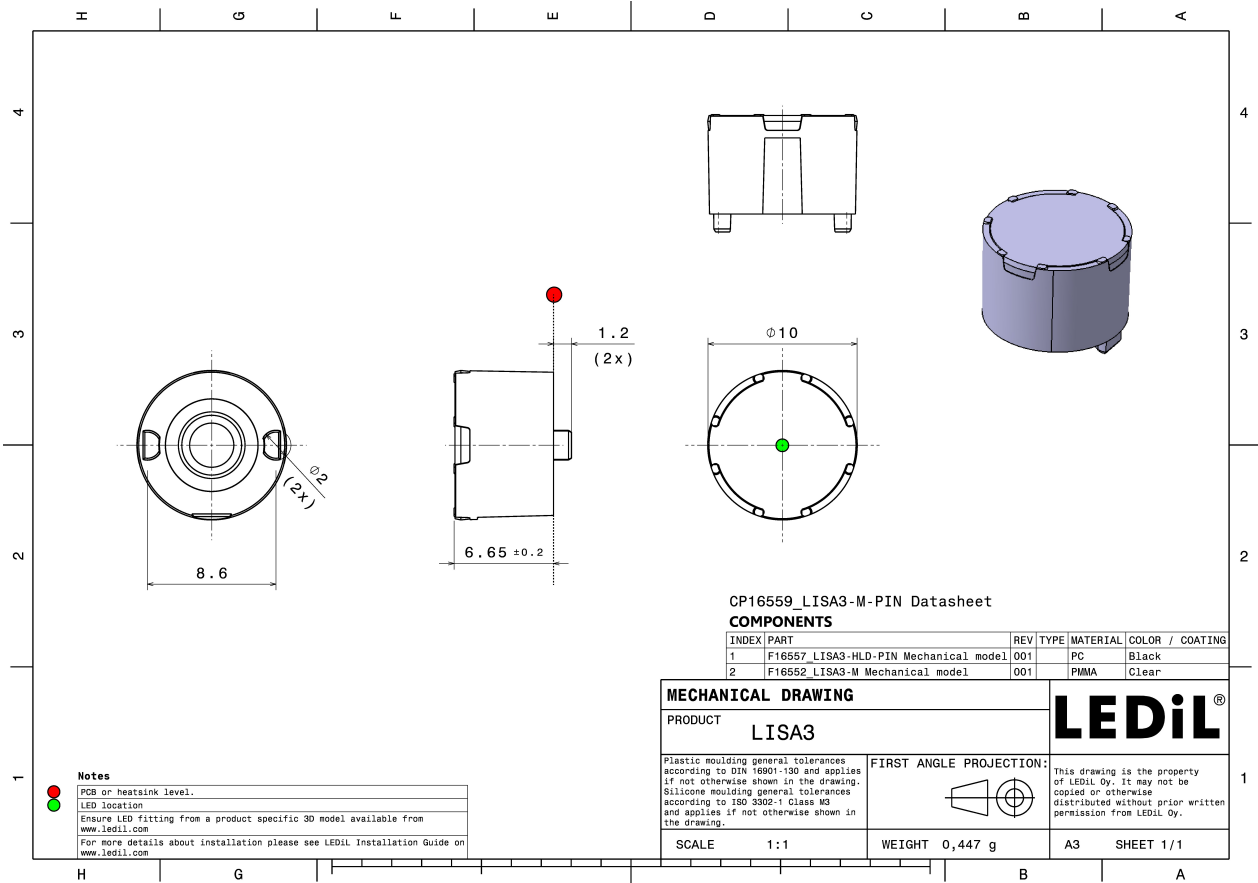
TECHNICAL SPECIFICATIONS:

Dimensions	Ø 10.0 mm
Height	7.9 mm
Fastening	glue
Colour	black
Box size	310 x 230 x 60 mm
Box weight	1.3 kg
Quantity in Box	2000 pcs
ROHS compliant	yes ⓘ



MATERIAL SPECIFICATIONS:

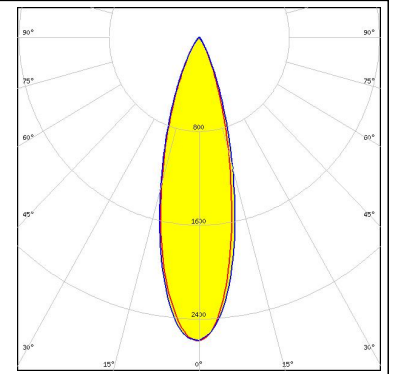
Component	Type	Material	Colour
LISA3-M	Single lens	PMMA	
LISA3-HLD-PIN	Holder	PC	



PHOTOMETRIC DATA (MEASURED):



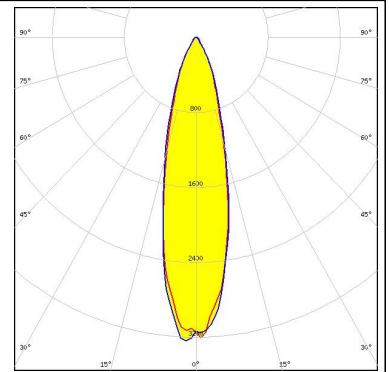
LED NF2x757G
FWHM 28.0°
Efficiency 79 %
Peak intensity 2.600 cd/lm
LEDs/each optic 1
Light colour White
Required components:



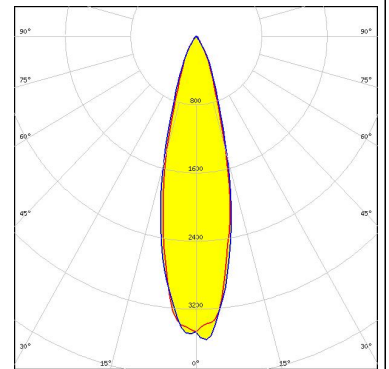
PHOTOMETRIC DATA (SIMULATED):



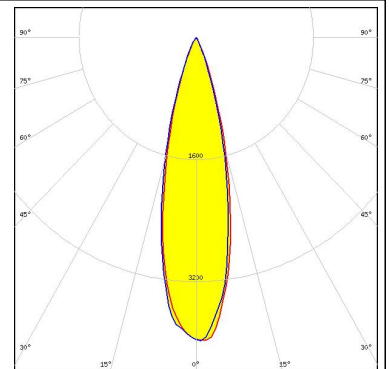
LED XD16
 FWHM 25.0°
 Efficiency 80 %
 Peak intensity 3.530 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



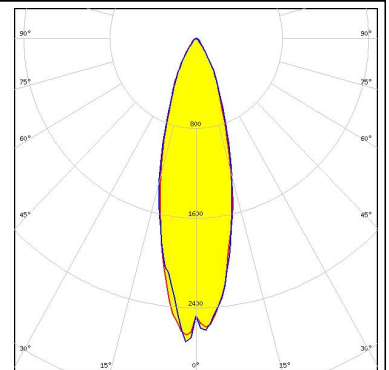
LED XP-E
 FWHM 28.0°
 Efficiency 90 %
 Peak intensity 3.540 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LED XP-E2
 FWHM 25.0°
 Efficiency 89 %
 Peak intensity 4.060 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



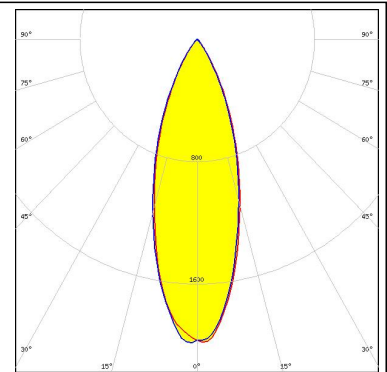
LED XP-G
 FWHM 30.0°
 Efficiency 88 %
 Peak intensity 2.660 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



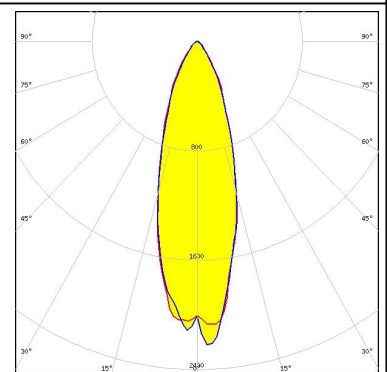
PHOTOMETRIC DATA (SIMULATED):



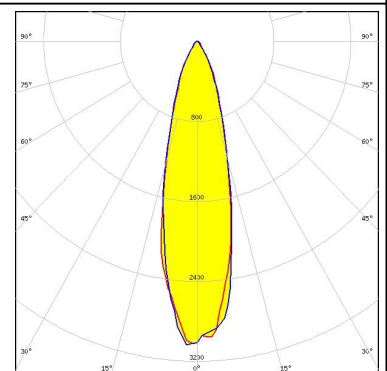
LED XP-G2 HE
 FWHM 34.0°
 Efficiency 86 %
 Peak intensity 2.001 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



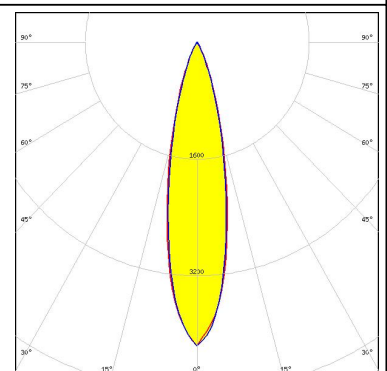
LED XP-G3
 FWHM 28.0°
 Efficiency 85 %
 Peak intensity 2.450 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LED XT-E
 FWHM 24.0°
 Efficiency 82 %
 Peak intensity 3.580 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LED LUXEON 2835 Line
 FWHM 23.0°
 Efficiency 89 %
 Peak intensity 4.163 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



PHOTOMETRIC DATA (SIMULATED):

<p>LUMILEDS</p> <p>LED LUXEON 3030 2D (Round LES)</p> <p>FWHM 25.0°</p> <p>Efficiency 85 %</p> <p>Peak intensity 4.050 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	
<p>LUMILEDS</p> <p>LED LUXEON TX</p> <p>FWHM 28.0°</p> <p>Efficiency 87 %</p> <p>Peak intensity 3.130 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	
<p>LUMILEDS</p> <p>LED LUXEON V2</p> <p>FWHM 30.0°</p> <p>Efficiency 90 %</p> <p>Peak intensity 2.700 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	
<p>LUMILEDS</p> <p>LED LUXEON Z</p> <p>FWHM 20.0°</p> <p>Efficiency 88 %</p> <p>Peak intensity 6.070 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	

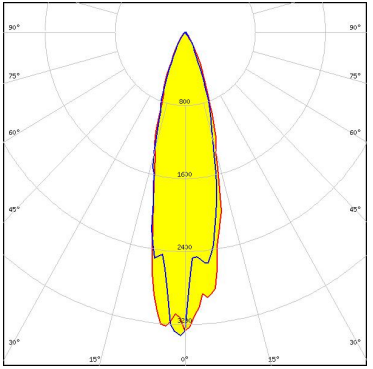
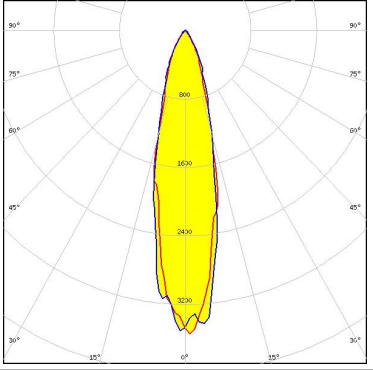
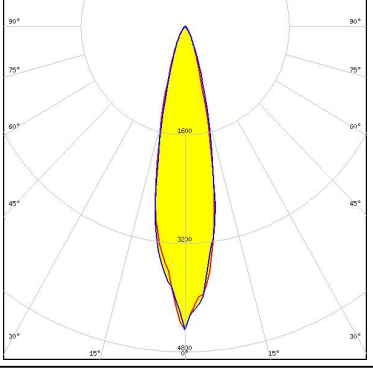
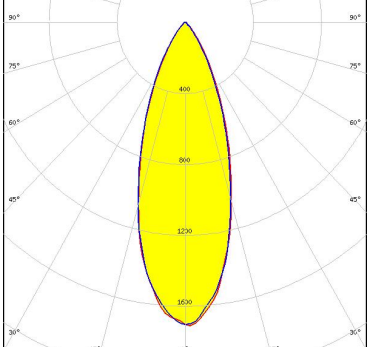
PHOTOMETRIC DATA (SIMULATED):

<p>LUMILEDS</p> <p>LED LUXEON Z ES FWHM 22.0° Efficiency 89 % Peak intensity 5.045 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	
<p>NICHIA</p> <p>LED NF2x757G FWHM 25.0° Efficiency 88 % Peak intensity 3.560 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	
<p>NICHIA</p> <p>LED NVSW219F FWHM 33.0° Efficiency 88 % Peak intensity 2.297 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	
<p>NICHIA</p> <p>LED NVSxx19B/NVSxx19C FWHM 29.0° Efficiency 86 % Peak intensity 2.680 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	

PHOTOMETRIC DATA (SIMULATED):

<p>OSRAM Opto Semiconductors</p> <p>LED Duris S5 (2 chip) FWHM 25.0° Efficiency 89 % Peak intensity 3.220 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	
<p>OSRAM Opto Semiconductors</p> <p>LED Duris S5 (Single chip) FWHM 25.0° Efficiency 86 % Peak intensity 3.710 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	
<p>OSRAM Opto Semiconductors</p> <p>LED OSCONIQ P 3030 FWHM 22.0° Efficiency 85 % Peak intensity 4.653 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	
<p>OSRAM Opto Semiconductors</p> <p>LED OSLOM Square CSSRM2/CSSRM3 FWHM 26.0° Efficiency 88 % Peak intensity 3.400 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	

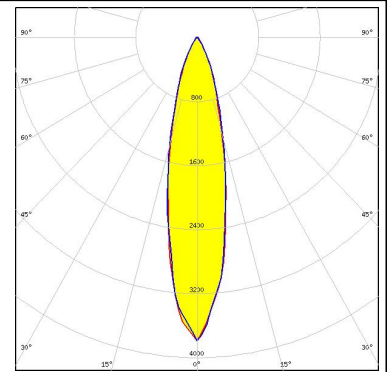
PHOTOMETRIC DATA (SIMULATED):

<p>OSRAM Opto Semiconductors</p> <p>LED OSLON Square EC FWHM 26.0° Efficiency 88 % Peak intensity 3.350 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	
<p>OSRAM Opto Semiconductors</p> <p>LED OSLON SSL 150 FWHM 25.0° Efficiency 89 % Peak intensity 4.000 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	
<p>OSRAM Opto Semiconductors</p> <p>LED OSLON SSL 80 FWHM 21.0° Efficiency 87 % Peak intensity 4.980 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	
<p>SAMSUNG</p> <p>LED LH351D FWHM 36.0° Efficiency 85 % Peak intensity 1.720 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	

PHOTOMETRIC DATA (SIMULATED):

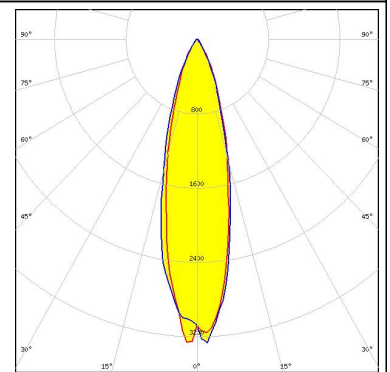
SAMSUNG

LED LM301A
FWHM 22.0°
Efficiency 87 %
Peak intensity 3.560 cd/lm
LEDs/each optic 1
Light colour White
Required components:



SAMSUNG

LED LM302A
FWHM 25.0°
Efficiency 87 %
Peak intensity 3.920 cd/lm
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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