

LISA3-RS-PIN

~15° spot beam with location pin installation

TECHNICAL SPECIFICATIONS:

Dimensions	Ø 10.0 mm
Height	6.9 mm
Fastening	glue
ROHS compliant	yes ⓘ

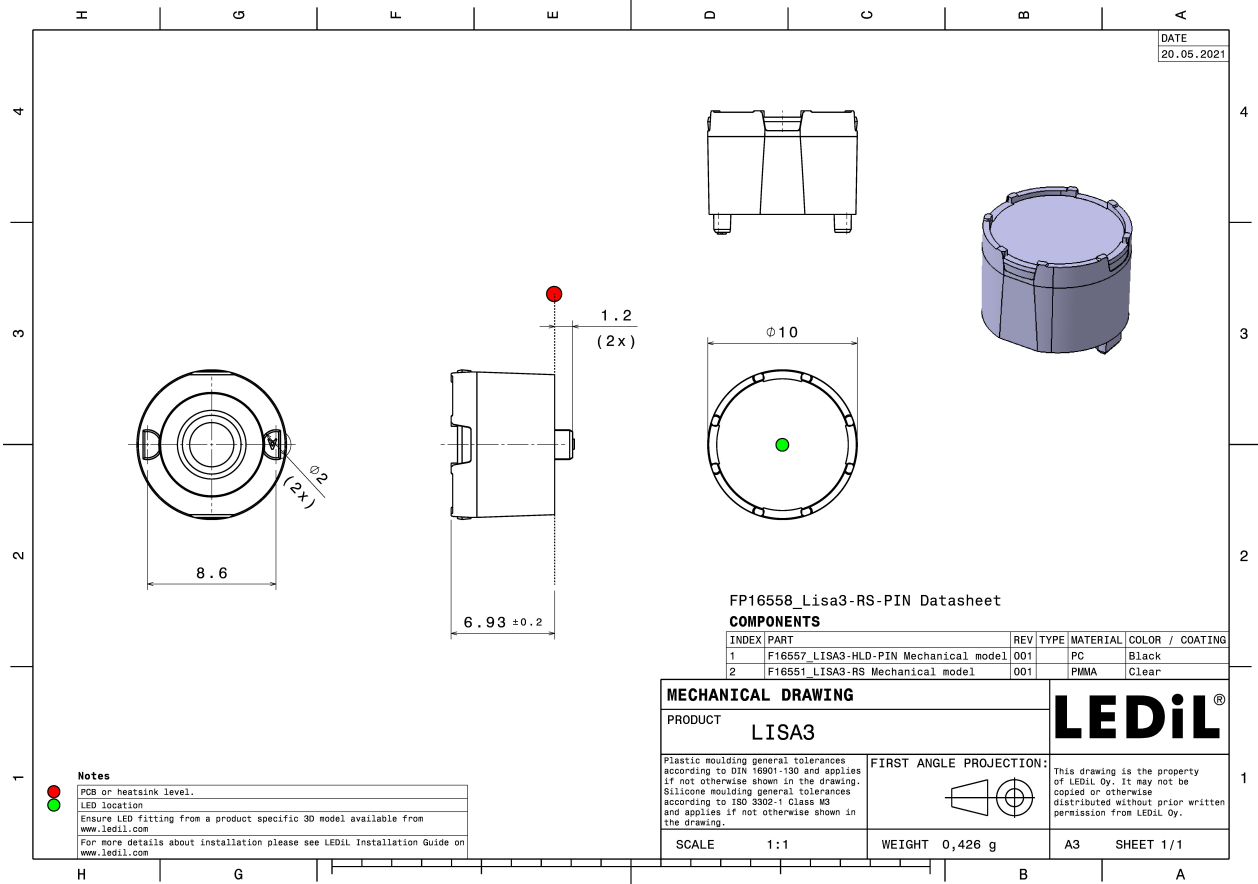
MATERIAL SPECIFICATIONS:

Component	Type	Material	Colour	Finish
LISA3-RS	Single lens	PMMA	clear	
LISA3-HLD-PIN	Holder	PC	black	

ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
FP16558_LISA3-RS-PIN	Single lens	2000	300	100	1.3
» Box size: 310 x 230 x 60 mm					



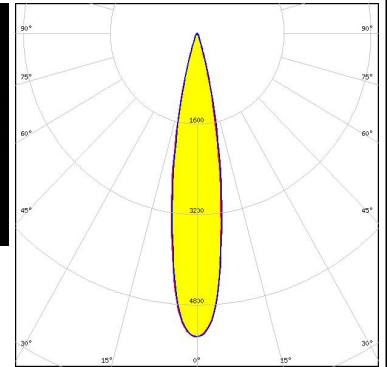
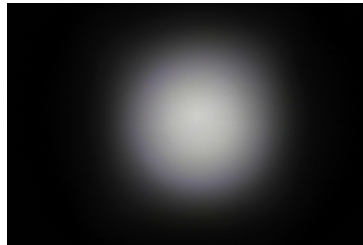


See also our general installation guide: www.ledil.com/installation_guide

PHOTOMETRIC DATA (MEASURED):

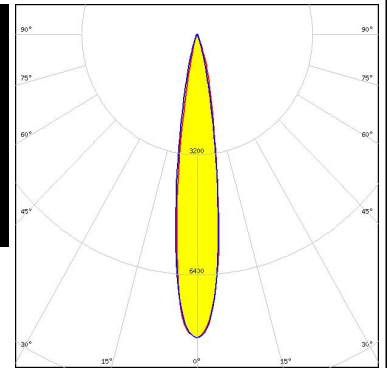
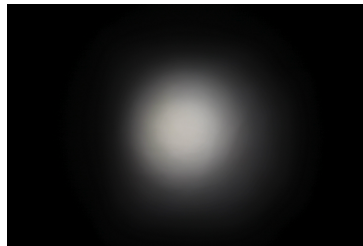
CREE LED

LED XD16
 FWHM / FWTM 19.0° / 34.0°
 Efficiency 78 %
 Peak intensity 5.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



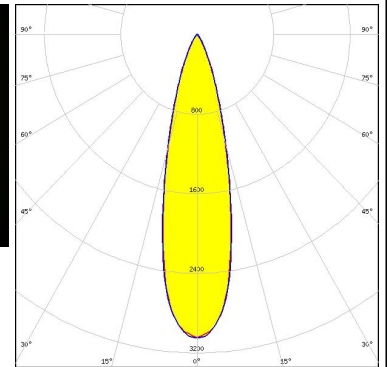
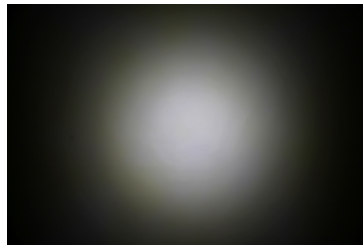
CREE LED

LED XP-E2
 FWHM / FWTM 16.0° / 31.0°
 Efficiency 90 %
 Peak intensity 8.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



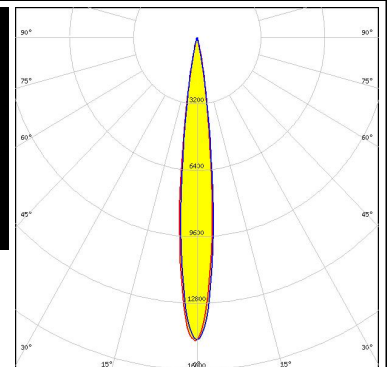
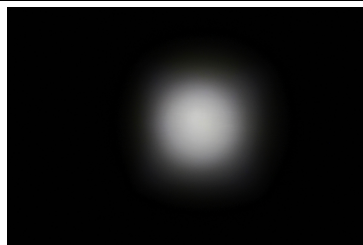
CREE LED

LED XP-G3
 FWHM / FWTM 26.0° / 51.0°
 Efficiency 84 %
 Peak intensity 3.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:


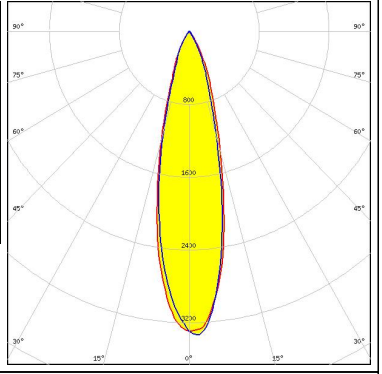

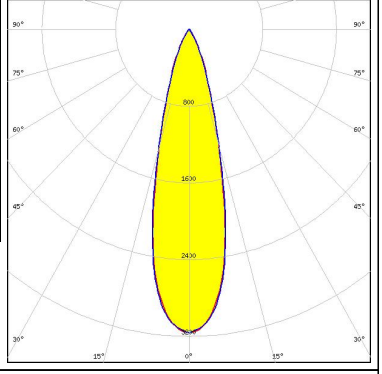

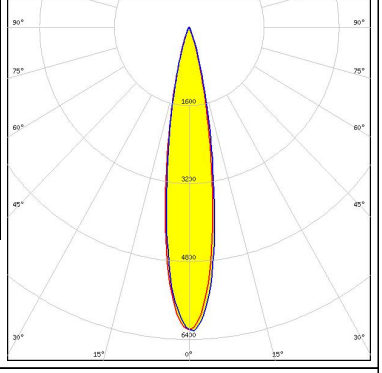
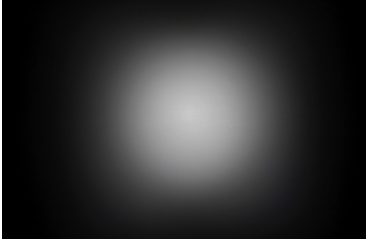
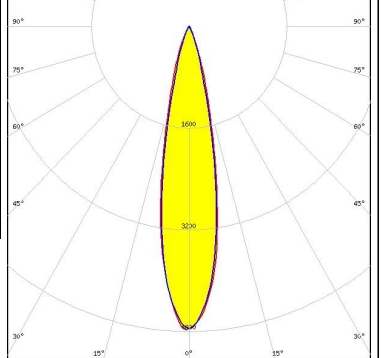


LUMILEDS

LED LUXEON CZ
 FWHM / FWTM 12.0° / 23.0°
 Efficiency 89 %
 Peak intensity 14.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



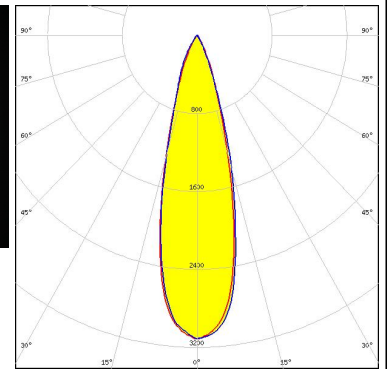
PHOTOMETRIC DATA (MEASURED):

<p>NICHIA</p> <p>LED NF2x757G FWHM / FWTM 25.0° / 52.0° Efficiency 88 % Peak intensity 3.3 cd/m LEDs/each optic 1 Light colour White Required components:</p>		
<p>NICHIA</p> <p>LED NVSW219F FWHM / FWTM 26.0° / 52.0° Efficiency 90 % Peak intensity 3.2 cd/m LEDs/each optic 1 Light colour White Required components:</p>		
<p>OSRAM <small>Opto Semiconductors</small></p> <p>LED OSCONIQ C 2424 FWHM / FWTM 18.0° / 35.0° Efficiency 88 % Peak intensity 6.3 cd/m LEDs/each optic 1 Light colour White Required components:</p>		
<p>OSRAM <small>Opto Semiconductors</small></p> <p>LED OSLON Square CSSRM2/CSSRM3 FWHM / FWTM 21.0° / 40.0° Efficiency 88 % Peak intensity 4.8 cd/m LEDs/each optic 1 Light colour White Required components:</p>		

PHOTOMETRIC DATA (MEASURED):

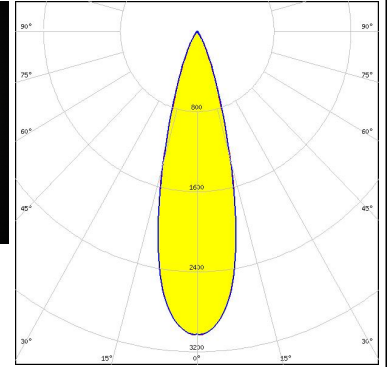
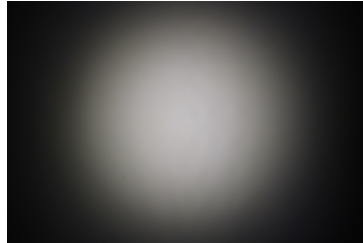
SAMSUNG

LED LH351C
 FWHM / FWTM 28.0° / 51.0°
 Efficiency 90 %
 Peak intensity 3.1 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:



SEOUL SEMICONDUCTOR

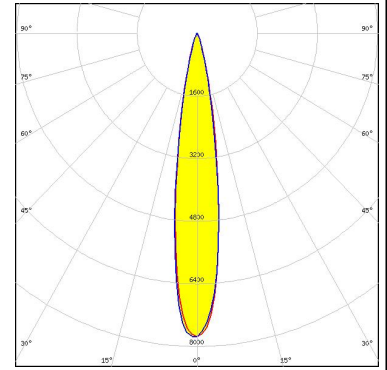
LED Z5M4
 FWHM / FWTM 29.0° / 51.0°
 Efficiency 89 %
 Peak intensity 3.1 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:



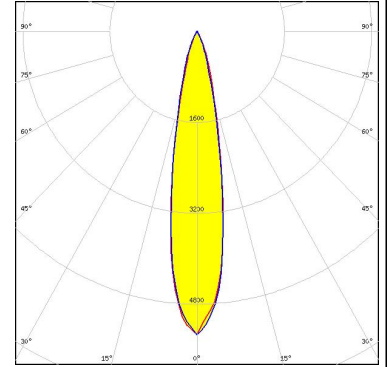
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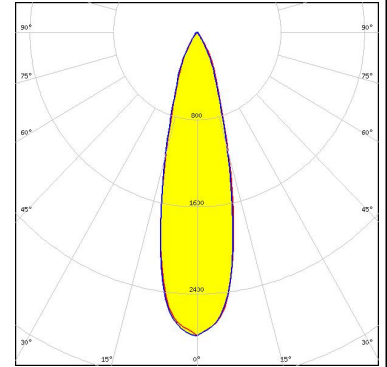
LED XP-E
 FWHM / FWTM 16.0° / 32.0°
 Efficiency 91 %
 Peak intensity 7.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



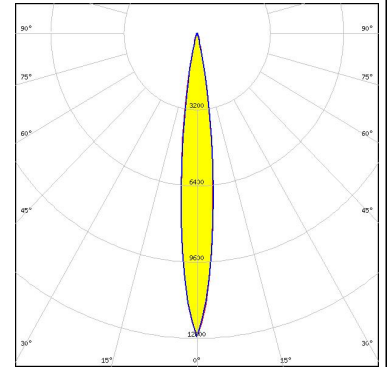
LED XP-G2
 FWHM / FWTM 20.0° / 40.0°
 Efficiency 89 %
 Peak intensity 5.3 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LED XP-G2 HE
 FWHM / FWTM 27.0° / 57.0°
 Efficiency 86 %
 Peak intensity 2.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LED XP-P
 FWHM / FWTM 12.0° / 26.0°
 Efficiency 97 %
 Peak intensity 12.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



PHOTOMETRIC DATA (SIMULATED):

<p>CREE LED</p> <p>LED: XQ-E HI FWHM / FWTM: 18.0° / 34.0° Efficiency: 82 % Peak intensity: 6.4 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>	
<p>LUMILEDS</p> <p>LED: LUXEON 2835 Line FWHM / FWTM: 16.0° / 36.0° Efficiency: 89 % Peak intensity: 7 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>	
<p>LUMILEDS</p> <p>LED: LUXEON C FWHM / FWTM: 16.0° / 32.0° Efficiency: 78 % Peak intensity: 6.3 cd/lm LEDs/each optic: 1 Light colour: Red Required components:</p>	
<p>LUMILEDS</p> <p>LED: LUXEON V2 FWHM / FWTM: 22.0° / 51.0° Efficiency: 90 % Peak intensity: 3.8 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>	

PHOTOMETRIC DATA (SIMULATED):

<p>LUMILEDS</p> <p>LED: LUXEON Z FWHM / FWTM: 12.0° / 23.0° Efficiency: 87 % Peak intensity: 13.2 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>	
<p>LUMILEDS</p> <p>LED: LUXEON Z ES FWHM / FWTM: 15.0° / 30.0° Efficiency: 88 % Peak intensity: 9 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>	
<p>LUMINUS</p> <p>LED: SST-20 FWHM / FWTM: 20.0° / 40.0° Efficiency: 86 % Peak intensity: 5.2 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>	
<p>NICHIA</p> <p>LED: NCSU276C FWHM / FWTM: 16.0° / 34.0° Efficiency: 90 % LEDs/each optic: 1 Light colour: UV-A Required components:</p>	

PHOTOMETRIC DATA (SIMULATED):

<p>NICHIA</p> <p>LED: NCSxx19B FWHM / FWTM: 18.0° / 37.0° Efficiency: 84 % Peak intensity: 5.9 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>	
<p>NICHIA</p> <p>LED: NVSxx19B/NVSxx19C FWHM / FWTM: 25.0° / 50.0° Efficiency: 85 % Peak intensity: 3.5 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>	
<p>OSRAM <small>Opto Semiconductors</small></p> <p>LED: Duris S5 (2 chip) FWHM / FWTM: 20.0° / 44.0° Efficiency: 87 % Peak intensity: 7.1 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>	
<p>OSRAM <small>Opto Semiconductors</small></p> <p>LED: Duris S5 (Single chip) FWHM / FWTM: 20.0° / 43.0° Efficiency: 86 % Peak intensity: 4.5 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>	

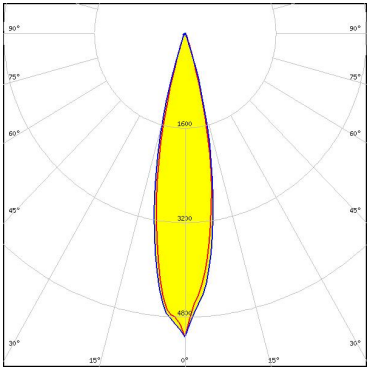
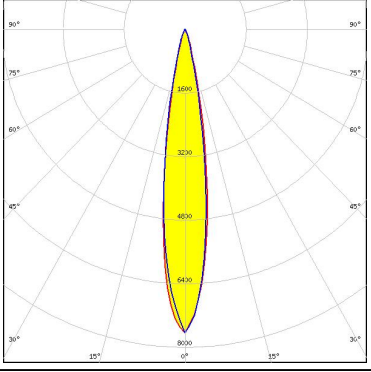
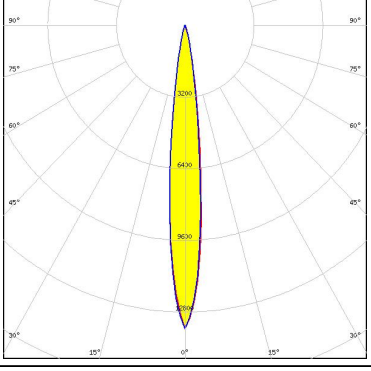
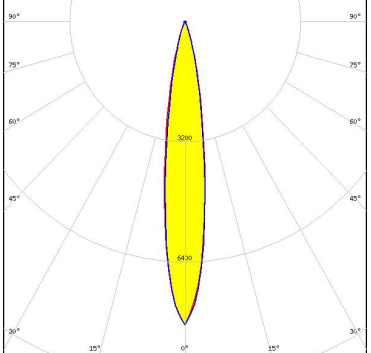
PHOTOMETRIC DATA (SIMULATED):

OSRAM <small>Opto Semiconductors</small>	LED OSCONIQ P 3030 FWHM / FWTM 14.0° / 30.0° Efficiency 86 % Peak intensity 8.5 cd/lm LEDs/each optic 1 Light colour White Required components:	
OSRAM <small>Opto Semiconductors</small>	LED OSCONIQ P 3737 (2W version) FWHM / FWTM 20.0° / 40.0° Efficiency 88 % Peak intensity 5.1 cd/lm LEDs/each optic 1 Light colour White Required components:	
OSRAM <small>Opto Semiconductors</small>	LED OSLON Black FWHM / FWTM 17.0° / 32.0° Efficiency 87 % Peak intensity 7.6 cd/lm LEDs/each optic 1 Light colour White Required components:	
OSRAM <small>Opto Semiconductors</small>	LED OSLON Square Flat FWHM / FWTM 16.0° / 33.0° Efficiency 89 % Peak intensity 7.5 cd/lm LEDs/each optic 1 Light colour White Required components:	

PHOTOMETRIC DATA (SIMULATED):

OSRAM <small>Opto Semiconductors</small>	<p>LED OSLON SSL 120</p> <p>FWHM / FWTM 16.0° / 29.0°</p> <p>Efficiency 90 %</p> <p>Peak intensity 9 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour Hyper Red</p> <p>Required components:</p>	
OSRAM <small>Opto Semiconductors</small>	<p>LED OSLON SSL 150</p> <p>FWHM / FWTM 14.5° / 29.0°</p> <p>Efficiency 88 %</p> <p>Peak intensity 8.7 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	
OSRAM <small>Opto Semiconductors</small>	<p>LED OSLON SSL 80</p> <p>FWHM / FWTM 15.0° / 31.0°</p> <p>Efficiency 87 %</p> <p>Peak intensity 7.6 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	
OSRAM <small>Opto Semiconductors</small>	<p>LED SFH 4714A</p> <p>FWHM / FWTM 12.0° / 24.0°</p> <p>Efficiency 86 %</p> <p>Peak intensity 13.7 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour IR</p> <p>Required components:</p>	

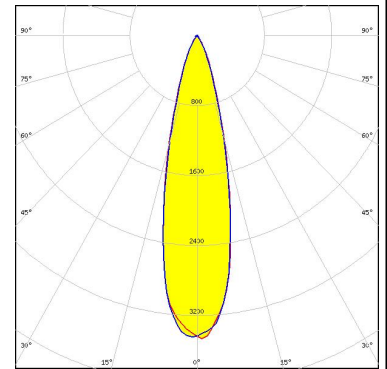
PHOTOMETRIC DATA (SIMULATED):

<p>OSRAM Opto Semiconductors</p> <p>LED SFH 4715AS FWHM / FWTM 22.0° / 37.0° Efficiency 86 % LEDs/each optic 1 Light colour IR Required components:</p>	
<p>OSRAM Opto Semiconductors</p> <p>LED SFH 4716AS FWHM / FWTM 17.0° / 31.0° Efficiency 87 % LEDs/each optic 1 Light colour IR Required components:</p>	
<p>OSRAM Opto Semiconductors</p> <p>LED Synios P2720 1 mm FWHM / FWTM 12.0° / 24.0° Efficiency 88 % Peak intensity 13.6 cd/lm LEDs/each optic 1 Light colour Red Required components:</p>	
<p>OSRAM Opto Semiconductors</p> <p>LED SYNIOS S2222 (KW DDLM31) FWHM / FWTM 16.0° / 34.0 + 32.0° Efficiency 97 % Peak intensity 8.1 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	

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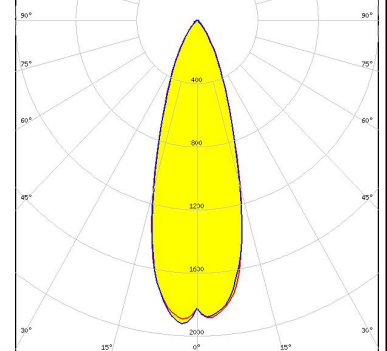
SAMSUNG

LED LH351B
 FWHM / FWTM 26.0° / 49.0°
 Efficiency 88 %
 Peak intensity 3.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



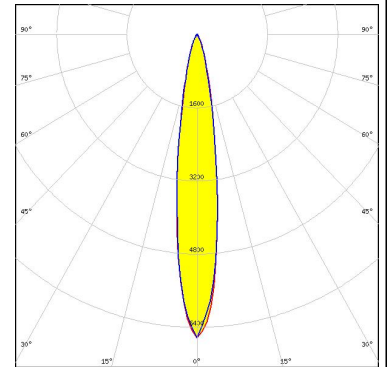
SAMSUNG

LED LH351D
 FWHM / FWTM 34.0° / 66.0°
 Efficiency 85 %
 Peak intensity 1.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



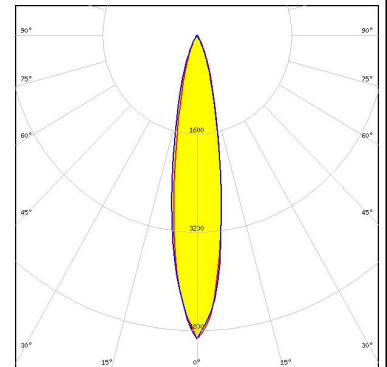
SAMSUNG

LED LM301A
 FWHM / FWTM 14.5° / 33.0°
 Efficiency 87 %
 Peak intensity 7.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:


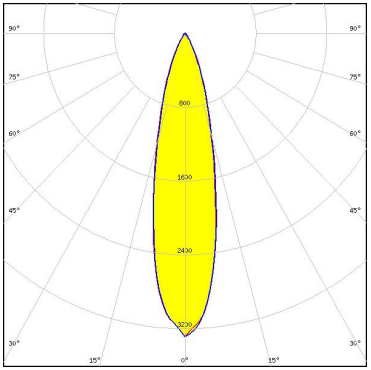

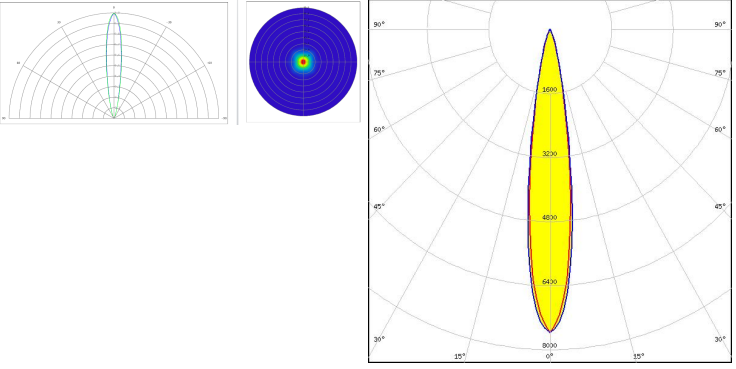

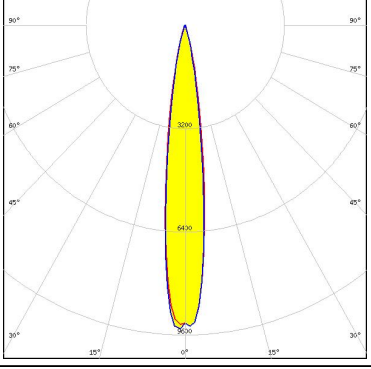

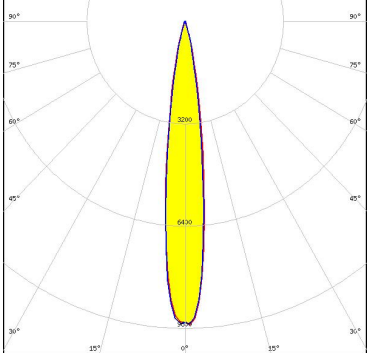


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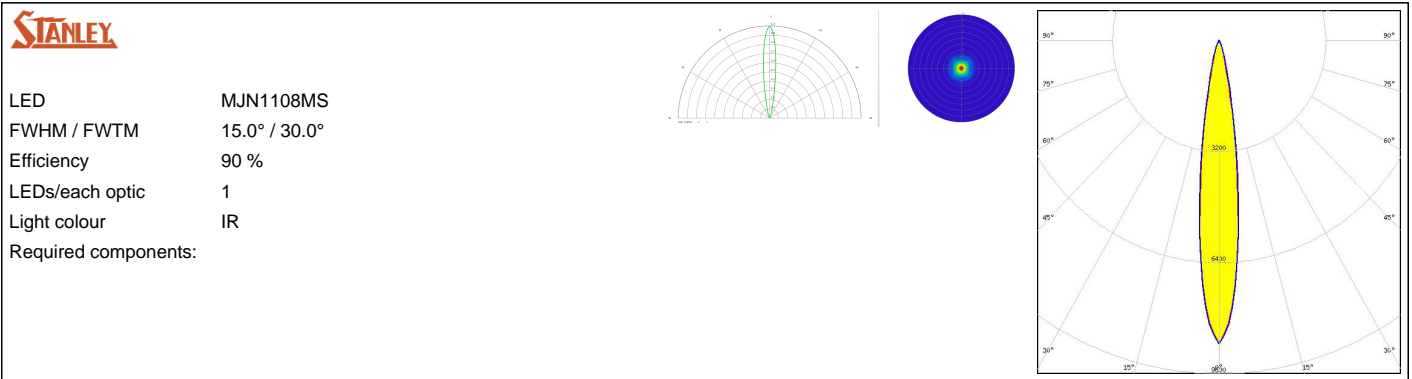
LED LM302A
 FWHM / FWTM 16.0° / 40.0°
 Efficiency 87 %
 Peak intensity 5.3 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



PHOTOMETRIC DATA (SIMULATED):

 <p>SEOL SEMICONDUCTOR</p>	<p>LED Z5M3 FWHM / FWTM 24.0° / 51.0° Efficiency 86 % Peak intensity 3.3 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	
	<p>LED FWR1108MS FWHM / FWTM 16.0° / 32.0° Efficiency 89 % Peak intensity 7.6 cd/lm LEDs/each optic 1 Light colour IR Required components:</p>	
	<p>LED MFN1108MS FWHM / FWTM 16.0° / 30.0° Efficiency 90 % Peak intensity 9.4 cd/lm LEDs/each optic 1 Light colour IR Required components:</p>	
	<p>LED MGN1108MS FWHM / FWTM 14.0° / 29.0° Efficiency 90 % Peak intensity 9.5 cd/lm LEDs/each optic 1 Light colour IR Required components:</p>	

PHOTOMETRIC DATA (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:

As part of our continuous research and improvement processes, and to ensure the best possible quality and availability of our products, LEDiL reserves the right to change material grades without notice.

PRODUCT DATA USER AGREEMENT AND DISCLAIMER:

The measured data in the provided downloadable LEDiL Product Datasheets and Mechanical 2D-Drawings is rounded and provided as reference for planning. LEDiL Oy's optical specifications have been verified by conducting performance testing of the products in accordance with the company's quality system. The reported data are averaged results of multiple measurements with typical variation. LEDiL Oy reserves the right to without prior notification make changes and improvements to its products.

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[CA16435_LXP2-SS-WAS](#) [CN16210_GABRIELLA-MIDI-W](#) [CP17137_CARMEN-M2-C](#) [CA16015_STRADA-SQ-SCL](#) [CP17594_TINA-SC-](#)
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