

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 ⓘ

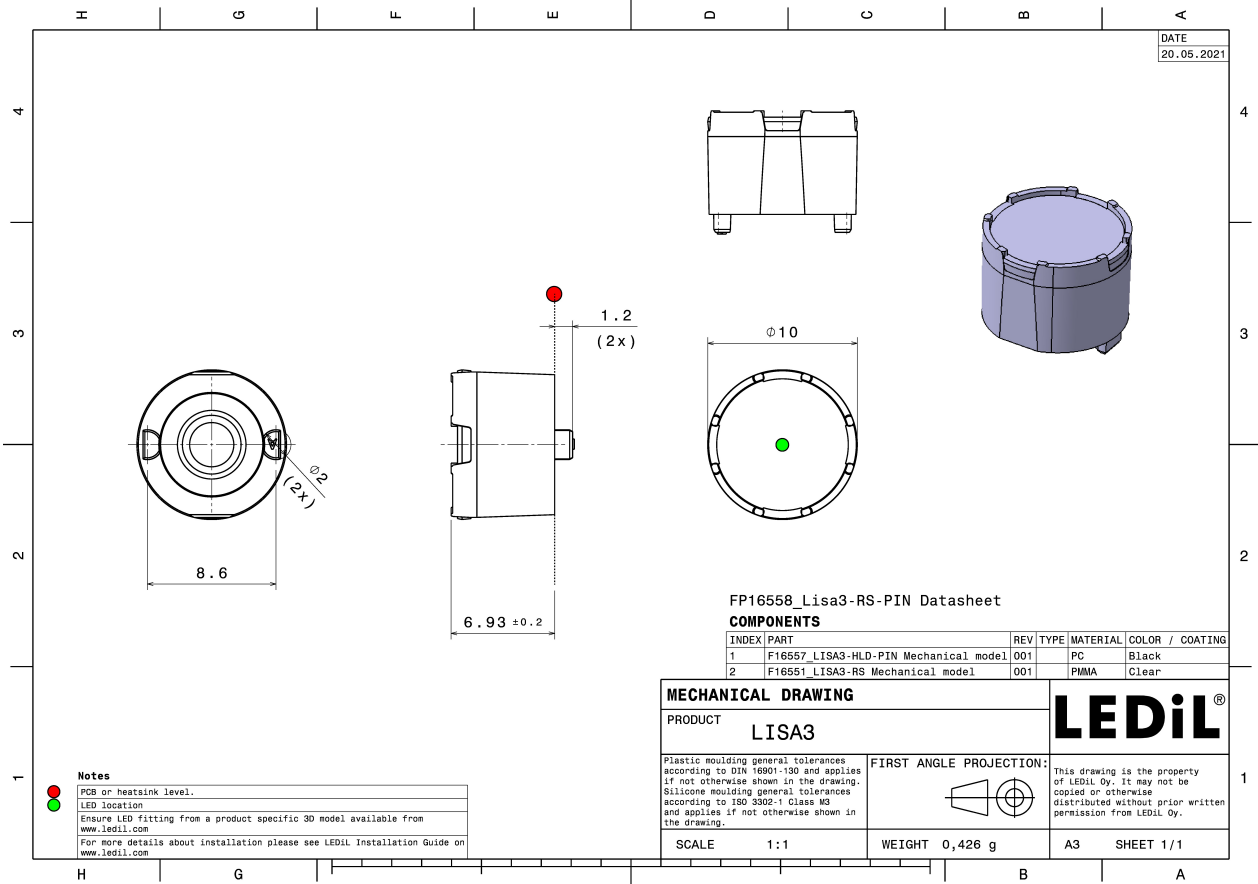
MATERIAL SPECIFICATIONS:

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					



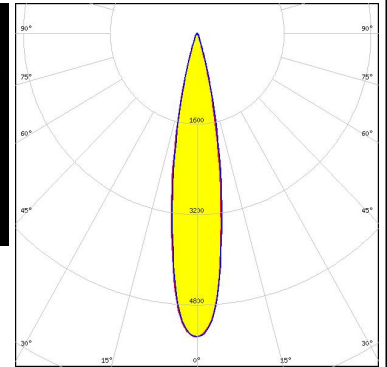
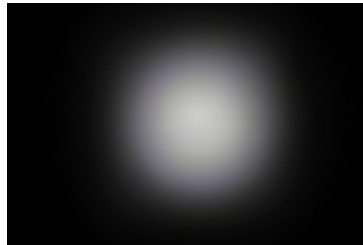


See also our general installation guide: www.ledil.com/installation_guide

PHOTOMETRIC DATA (MEASURED):

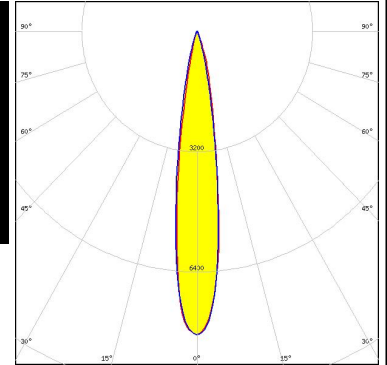
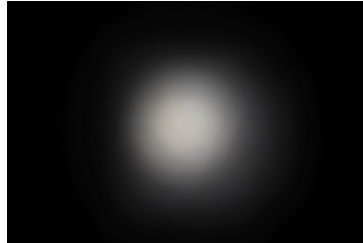
CREE LED

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:



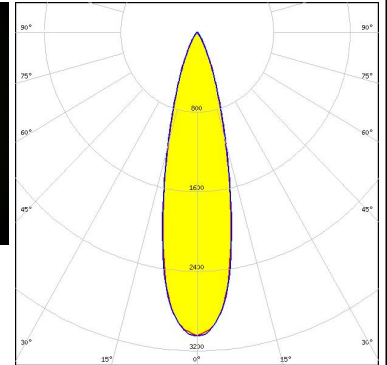
CREE LED

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:



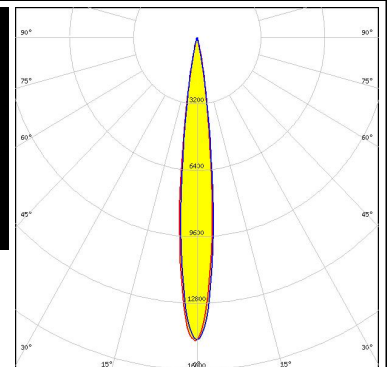
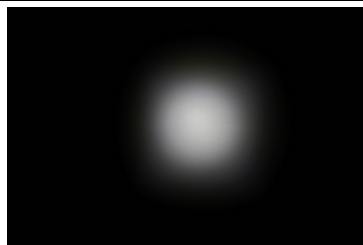
CREE LED

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:

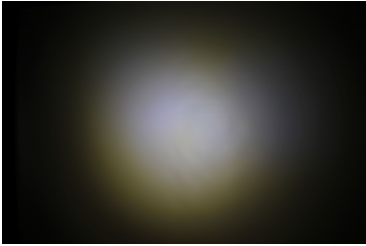
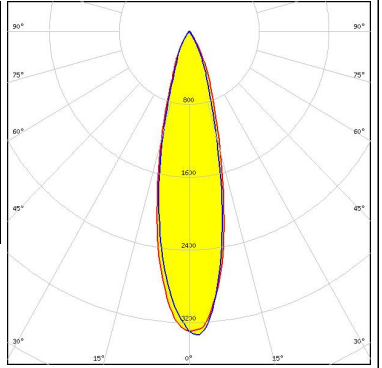

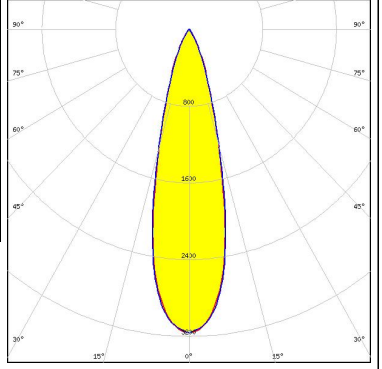

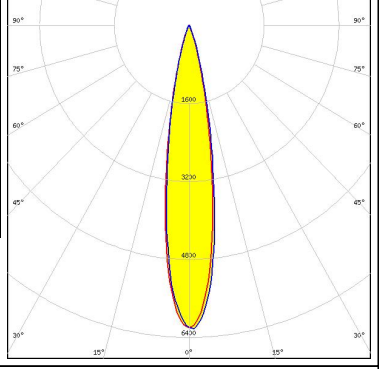

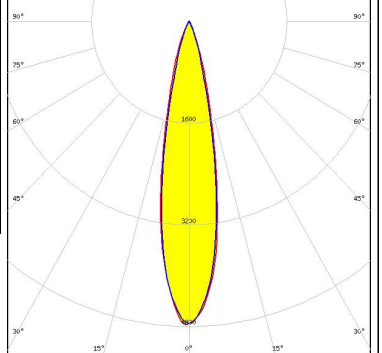


LUMILEDS

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:



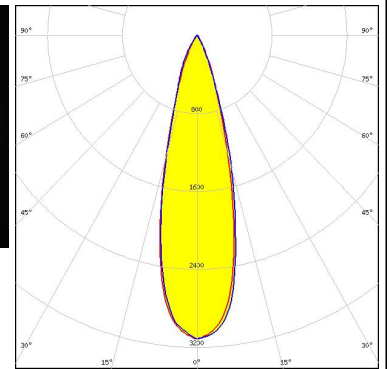
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<p>NICHIA</p> <p>LED NF2x757G FWHM / FWTM 25.0° / 52.0° Efficiency 88 % Peak intensity 3.3 cd/m LEDs/each optic 1 Light colour White Required components:</p>		
<p>NICHIA</p> <p>LED NVSW219F FWHM / FWTM 26.0° / 52.0° Efficiency 90 % Peak intensity 3.2 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):

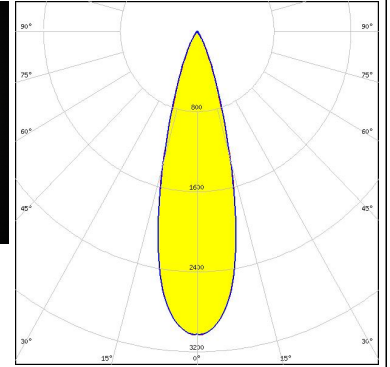
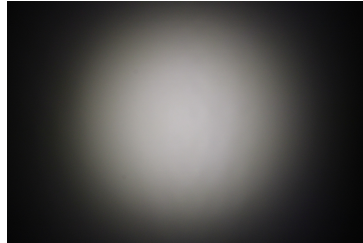
SAMSUNG

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:



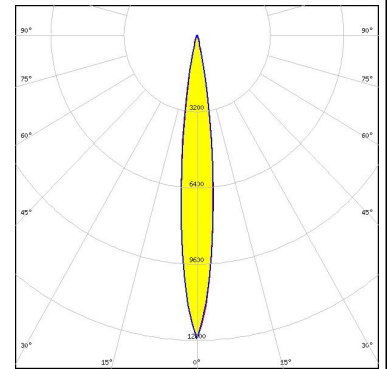
PHOTOMETRIC DATA (SIMULATED):

<p>CREE LED</p> <p>LED J Series 2835 FWHM / FWTM 19.0° / 44.0° Efficiency 88 % Peak intensity 4.7 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	
<p>CREE LED</p> <p>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:</p>	
<p>CREE LED</p> <p>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:</p>	
<p>CREE LED</p> <p>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:</p>	

PHOTOMETRIC DATA (SIMULATED):

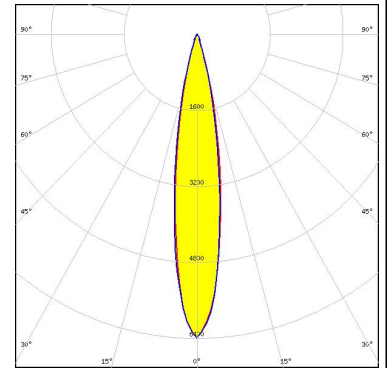
CREE LED

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:



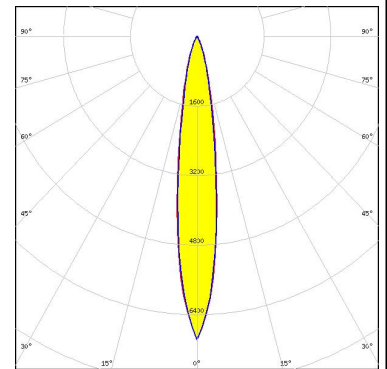
CREE LED

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:



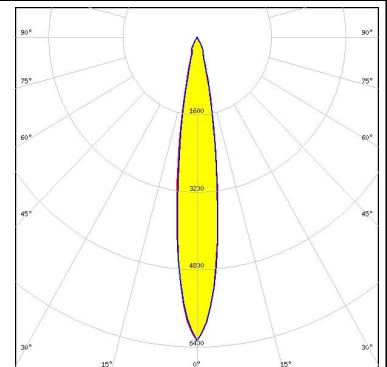
LUMILEDS

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:



LUMILEDS

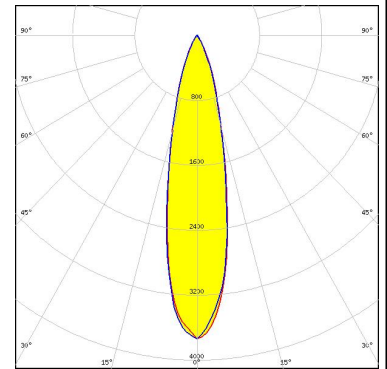
LED LUXEON C
 FWHM / FWTM 16.0° / 32.0°
 Efficiency 78 %
 Peak intensity 6.3 cd/lm
 LEDs/each optic 1
 Light colour Red
 Required components:



PHOTOMETRIC DATA (SIMULATED):

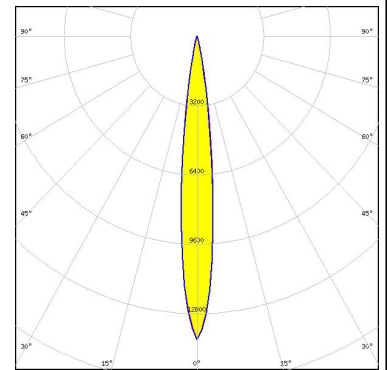
LUMILEDS

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:



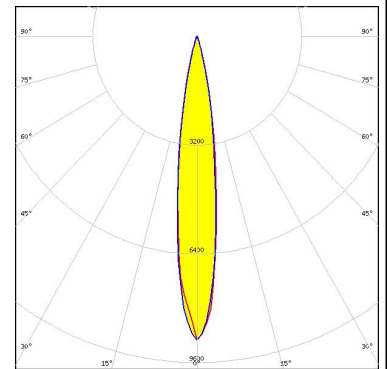
LUMILEDS

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:



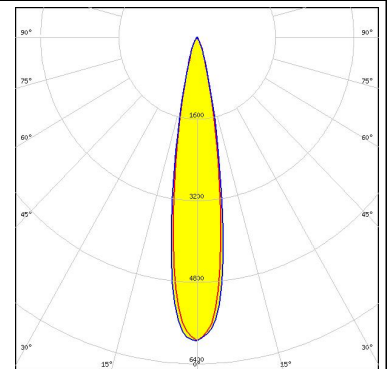
LUMILEDS

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:



LUMINUS

LED SST-10-B130
 FWHM / FWTM 19.0° / 36.0°
 Efficiency 89 %
 Peak intensity 6 cd/lm
 LEDs/each optic 1
 Light colour Deep Red
 Required components:



PHOTOMETRIC DATA (SIMULATED):

<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>	
<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 NV4WB35AM FWHM / FWTM 32.0° / 65.0° Efficiency 84 % Peak intensity 1.9 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	

PHOTOMETRIC DATA (SIMULATED):

<p>NICHIA</p> <p>LED NVSxx19B/NVSxx19C</p> <p>FWHM / FWTM 26.0° / 50.0°</p> <p>Efficiency 85 %</p> <p>Peak intensity 3.3 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	
<p>NICHIA</p> <p>LED NVSxx19B/NVSxx19C</p> <p>FWHM / FWTM 25.0° / 50.0°</p> <p>Efficiency 85 %</p> <p>Peak intensity 3.5 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	
<p>OSRAM Opto Semiconductors</p> <p>LED Duris S5 (2 chip)</p> <p>FWHM / FWTM 20.0° / 44.0°</p> <p>Efficiency 87 %</p> <p>Peak intensity 7.1 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	
<p>OSRAM Opto Semiconductors</p> <p>LED Duris S5 (Single chip)</p> <p>FWHM / FWTM 20.0° / 43.0°</p> <p>Efficiency 86 %</p> <p>Peak intensity 4.5 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	

PHOTOMETRIC DATA (SIMULATED):

OSRAM <small>Opto Semiconductors</small>	<p>LED KW CULPM1.TG</p> <p>FWHM / FWTM 16.0° / 32.0°</p> <p>Efficiency 90 %</p> <p>Peak intensity 8.4 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 OSCONIQ P 3030</p> <p>FWHM / FWTM 14.0° / 30.0°</p> <p>Efficiency 86 %</p> <p>Peak intensity 8.5 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 OSCONIQ P 3737 (2W version)</p> <p>FWHM / FWTM 20.0° / 40.0°</p> <p>Efficiency 88 %</p> <p>Peak intensity 5.1 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 OSCONIQ P 3737 (3W version)</p> <p>FWHM / FWTM 29.0° / 58.0°</p> <p>Efficiency 88 %</p> <p>Peak intensity 2.5 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	

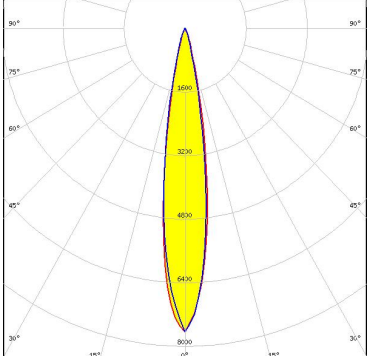
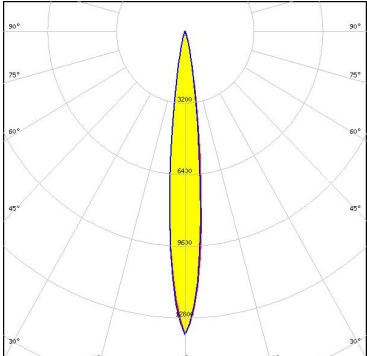
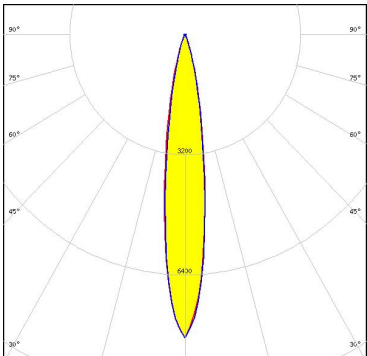
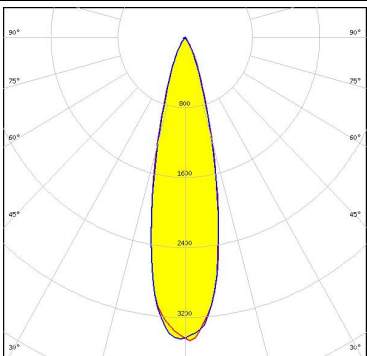
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OSRAM <small>Opto Semiconductors</small>	<p>LED OSLON Black</p> <p>FWHM / FWTM 17.0° / 32.0°</p> <p>Efficiency 87 %</p> <p>Peak intensity 7.6 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	
OSRAM <small>Opto Semiconductors</small>	<p>LED OSLON Signal</p> <p>FWHM / FWTM 14.0° / 29.0°</p> <p>Efficiency 88 %</p> <p>Peak intensity 9.9 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 Square Flat</p> <p>FWHM / FWTM 16.0° / 33.0°</p> <p>Efficiency 89 %</p> <p>Peak intensity 7.5 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 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>	

PHOTOMETRIC DATA (SIMULATED):

<p>OSRAM Opto Semiconductors</p> <p>LED OSLOL 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>	
<p>OSRAM Opto Semiconductors</p> <p>LED OSLOL 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>	
<p>OSRAM Opto Semiconductors</p> <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>	
<p>OSRAM Opto Semiconductors</p> <p>LED SFH 4715AS</p> <p>FWHM / FWTM 22.0° / 37.0°</p> <p>Efficiency 86 %</p> <p>LEDs/each optic 1</p> <p>Light colour IR</p> <p>Required components:</p>	

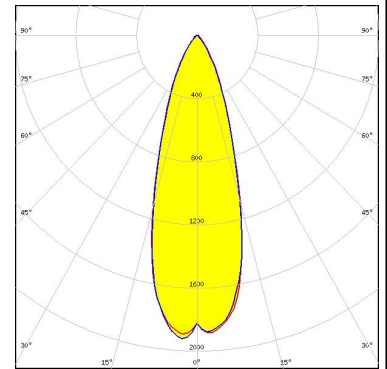
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<p>OSRAM Opto Semiconductors</p> <p>LED SFH 4716AS FWHM / FWTM 17.0° / 31.0° Efficiency 87 % LEDs/each optic 1 Light colour IR Required components:</p>	
<p>OSRAM Opto Semiconductors</p> <p>LED Synios P2720 1 mm FWHM / FWTM 12.0° / 24.0° Efficiency 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 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>	
<p>SAMSUNG</p> <p>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:</p>	

PHOTOMETRIC DATA (SIMULATED):

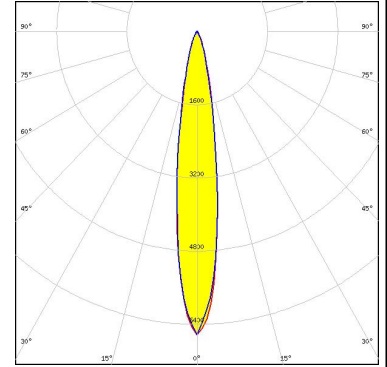
SAMSUNG

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:



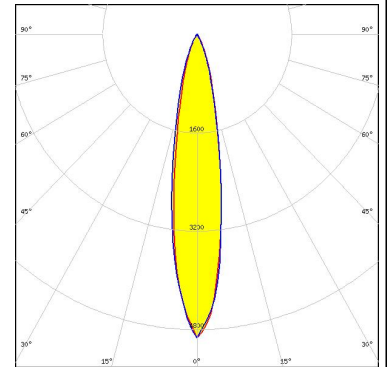
SAMSUNG

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:



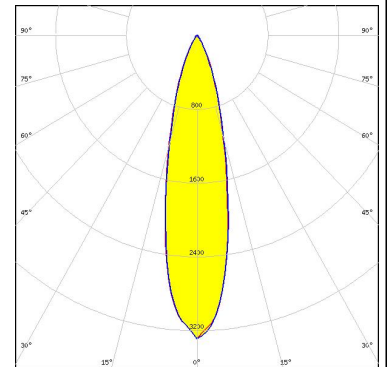
SAMSUNG

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:


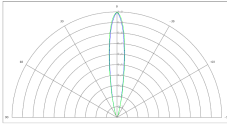
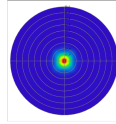
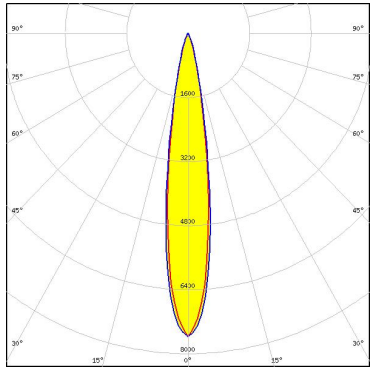

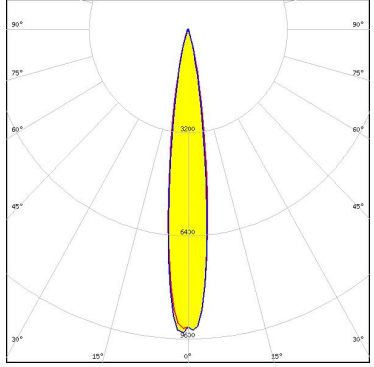

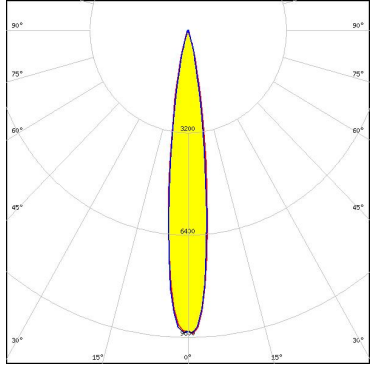

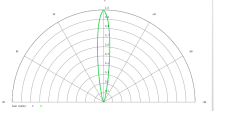
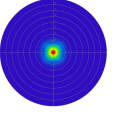
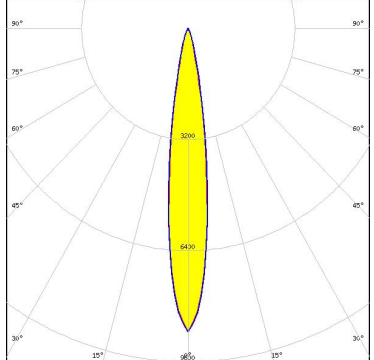


SEOUL SEMICONDUCTOR

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:



PHOTOMETRIC DATA (SIMULATED):

	<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>			
	<p>LED MJN1108MS FWHM / FWTM 15.0° / 30.0° Efficiency 90 % LEDs/each optic 1 Light colour IR Required components:</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:

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.

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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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