

LISA3-M-PIN

~25° medium beam with location pin installation

TECHNICAL SPECIFICATIONS:

Dimensions	Ø 10.0 mm
Height	7.9 mm
Fastening	glue
ROHS compliant	yes ⓘ

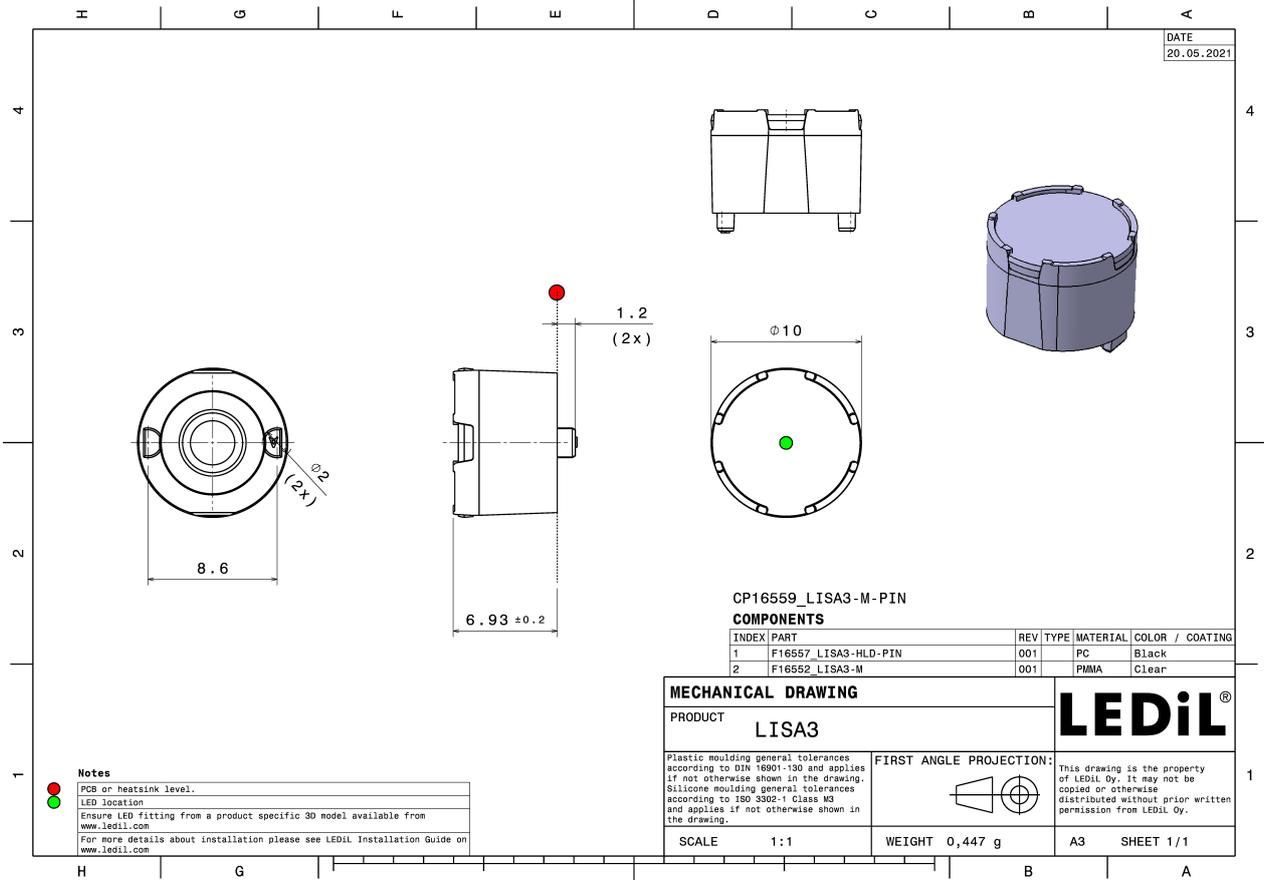
MATERIAL SPECIFICATIONS:

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

ORDERING INFORMATION:

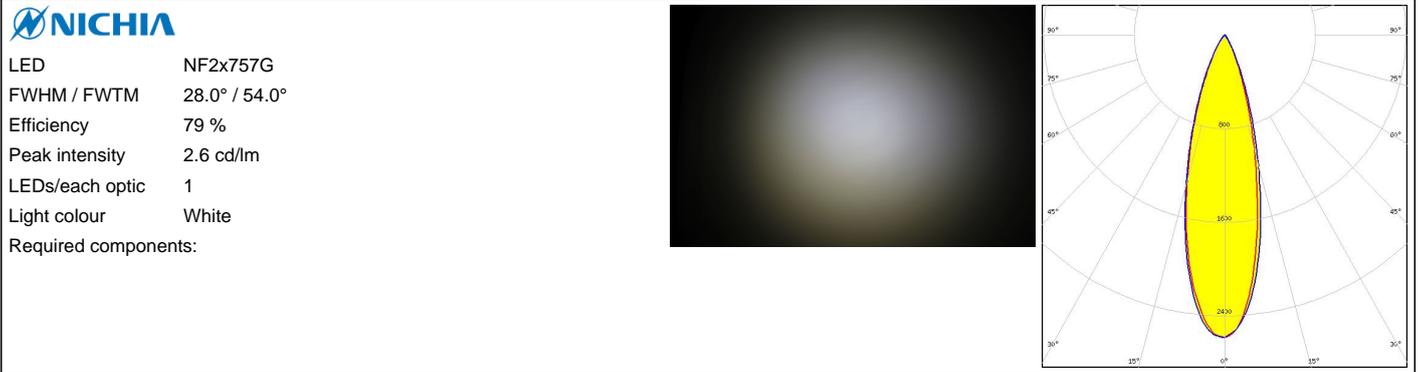
Component		Qty in box	MOQ	MPQ	Box weight (kg)
FP16559_LISA3-M-PIN	Single lens	2000	300	100	1.3
» Box size: 310 x 230 x 60 mm					





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

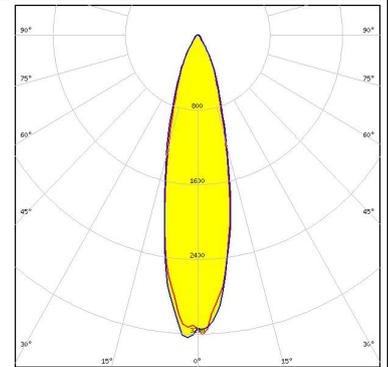
PHOTOMETRIC DATA (MEASURED):



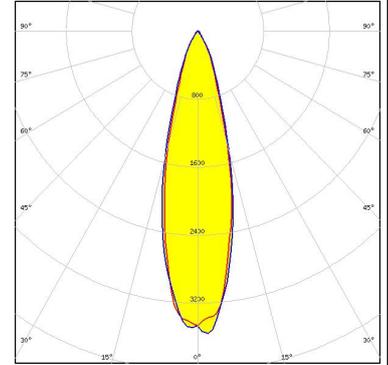
PHOTOMETRIC DATA (SIMULATED):



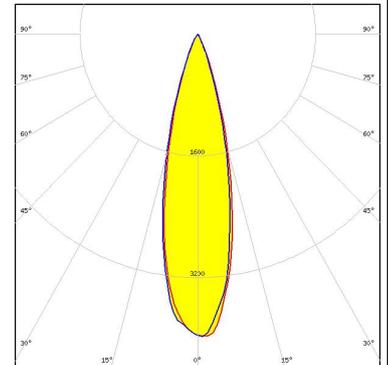
LED XD16
 FWHM / FWTM 25.0° / 46.0°
 Efficiency 80 %
 Peak intensity 3.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



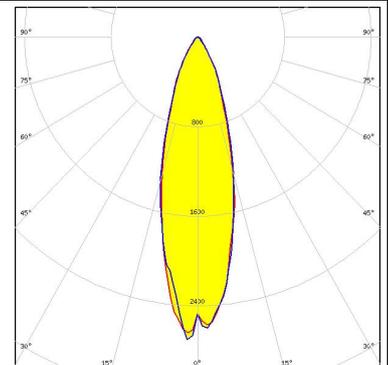
LED XP-E
 FWHM / FWTM 28.0° / 45.0°
 Efficiency 90 %
 Peak intensity 3.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LED XP-E2
 FWHM / FWTM 25.0° / 44.0°
 Efficiency 89 %
 Peak intensity 4.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



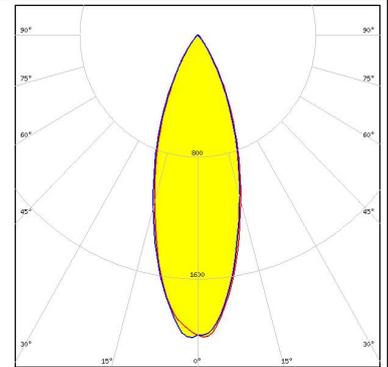
LED XP-G
 FWHM / FWTM 30.0° / 50.0°
 Efficiency 88 %
 Peak intensity 2.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



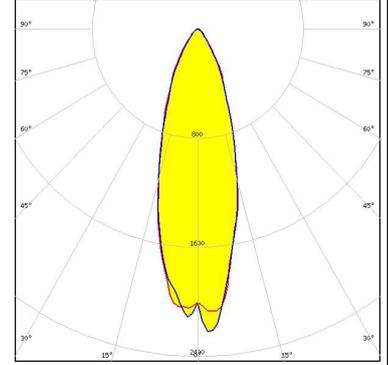
PHOTOMETRIC DATA (SIMULATED):



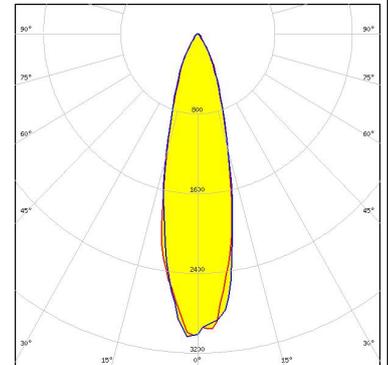
LED XP-G2 HE
 FWHM / FWTM 34.0° / 66.0°
 Efficiency 86 %
 Peak intensity 2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



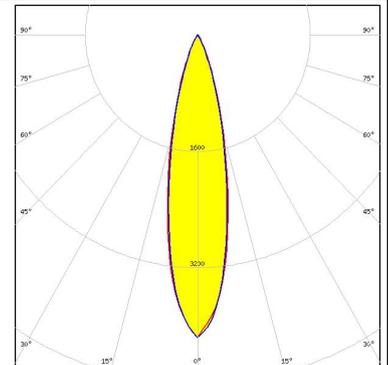
LED XP-G3
 FWHM / FWTM 28.0° / 68.0°
 Efficiency 85 %
 Peak intensity 2.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



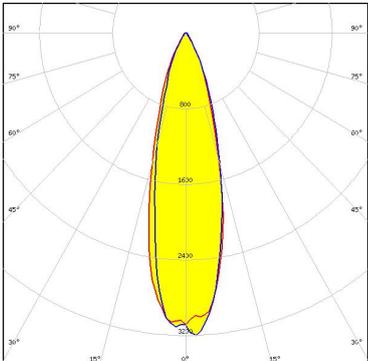
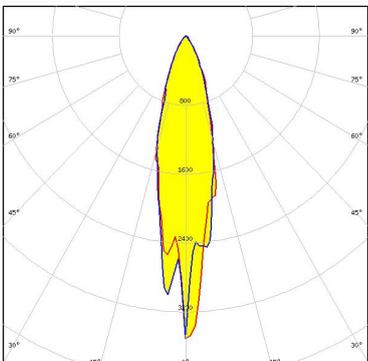
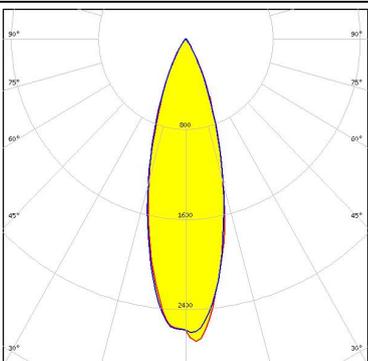
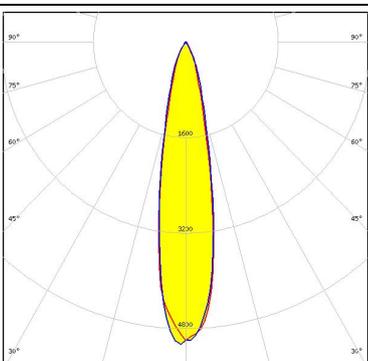
LED XT-E
 FWHM / FWTM 24.0° / 46.0°
 Efficiency 82 %
 Peak intensity 3.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LED LUXEON 2835 Line
 FWHM / FWTM 23.0° / 46.0°
 Efficiency 89 %
 Peak intensity 4.2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



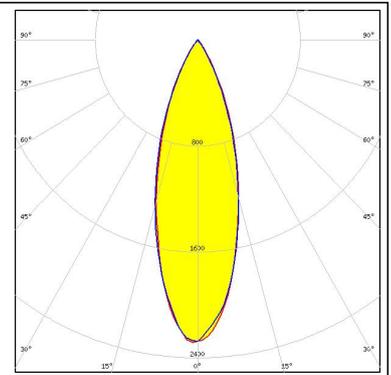
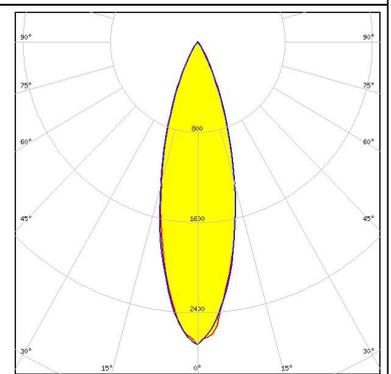
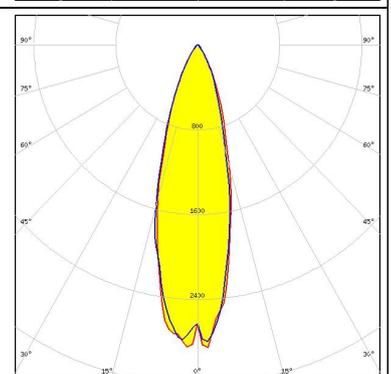
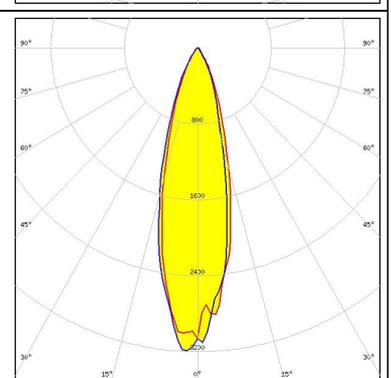
PHOTOMETRIC DATA (SIMULATED):

<p>LUMILEDS</p> <p>LED LUXEON 3030 2D (Round LES)</p> <p>FWHM / FWTM 25.0° / 45.0°</p> <p>Efficiency 85 %</p> <p>Peak intensity 4.1 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 / FWTM 28.0° / 50.0°</p> <p>Efficiency 87 %</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>LUMILEDS</p> <p>LED LUXEON V2</p> <p>FWHM / FWTM 30.0° / 56.0°</p> <p>Efficiency 90 %</p> <p>Peak intensity 2.7 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 / FWTM 20.0° / 38.0°</p> <p>Efficiency 88 %</p> <p>Peak intensity 6.1 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 / FWTM: 22.0° / 41.0° Efficiency: 89 % Peak intensity: 5 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>	
<p>LUMINUS</p> <p>LED: SST-20 FWHM / FWTM: 26.0° / 46.0° Efficiency: 87 % Peak intensity: 3.8 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>	
<p>NICHIA</p> <p>LED: NCSU276C FWHM / FWTM: 30.0° / 52.0° Efficiency: 89 % LEDs/each optic: 1 Light colour: UV-A Required components:</p>	
<p>NICHIA</p> <p>LED: NCSxx19B FWHM / FWTM: 26.0° / 49.0° Efficiency: 83 % Peak intensity: 3.3 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>	

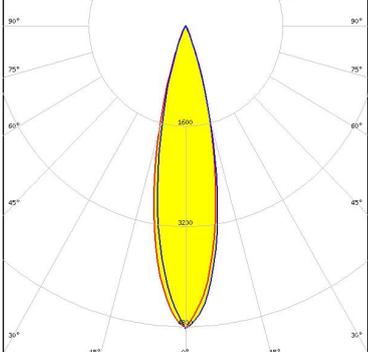
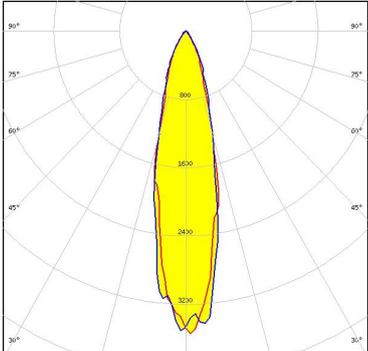
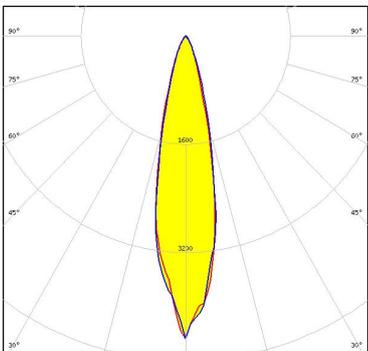
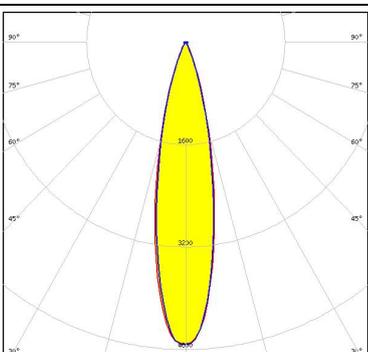
PHOTOMETRIC DATA (SIMULATED):

<p>NICHIA</p> <p>LED NVSW219F FWHM / FWTM 33.0° / 62.0° Efficiency 88 % Peak intensity 2.3 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	
<p>NICHIA</p> <p>LED NVSxx19B/NVSxx19C FWHM / FWTM 29.0° / 56.0° Efficiency 86 % Peak intensity 2.7 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 25.0° / 45.0° Efficiency 89 % Peak intensity 3.2 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 25.0° / 45.0° Efficiency 86 % Peak intensity 3.7 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	

PHOTOMETRIC DATA (SIMULATED):

OSRAM <small>Opto Semiconductors</small>	<p>LED OSCONIQ P 3030</p> <p>FWHM / FWTM 22.0° / 42.0°</p> <p>Efficiency 85 %</p> <p>Peak intensity 4.7 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 Black</p> <p>FWHM / FWTM 18.0° / 34.0°</p> <p>Efficiency 88 %</p> <p>Peak intensity 6.8 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 CSSRM2/CSSRM3</p> <p>FWHM / FWTM 26.0° / 46.0°</p> <p>Efficiency 88 %</p> <p>Peak intensity 3.4 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 OSLON Square EC</p> <p>FWHM / FWTM 26.0° / 49.0°</p> <p>Efficiency 88 %</p> <p>Peak intensity 3.4 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	

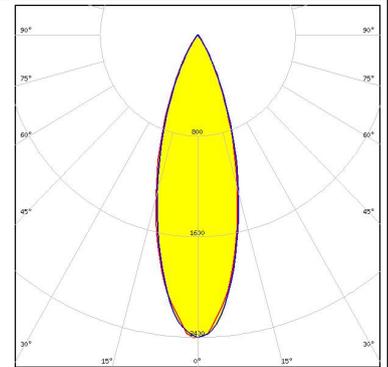
PHOTOMETRIC DATA (SIMULATED):

<p>OSRAM Opto Semiconductors</p> <p>LED OSLOM SSL 120</p> <p>FWHM / FWTM 23.0° / 41.0°</p> <p>Efficiency 91 %</p> <p>Peak intensity 4.8 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour Hyper Red</p> <p>Required components:</p>	
<p>OSRAM Opto Semiconductors</p> <p>LED OSLOM SSL 150</p> <p>FWHM / FWTM 25.0° / 45.0°</p> <p>Efficiency 89 %</p> <p>Peak intensity 4 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 OSLOM SSL 80</p> <p>FWHM / FWTM 21.0° / 40.0°</p> <p>Efficiency 87 %</p> <p>Peak intensity 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 SYNIOS S2222 (KW DDLM31)</p> <p>FWHM / FWTM 23.0 + 22.0° / 44.0 + 43.0°</p> <p>Efficiency 97 %</p> <p>Peak intensity 4.7 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	

PHOTOMETRIC DATA (SIMULATED):

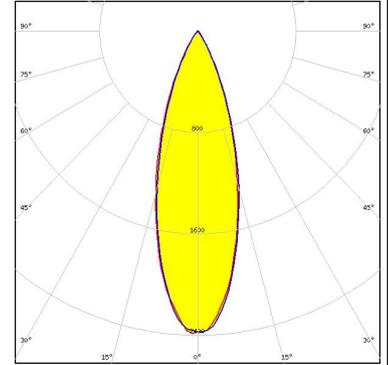
SAMSUNG

LED LH351C
 FWHM / FWTM 32.0° / 59.0°
 Efficiency 88 %
 Peak intensity 2.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



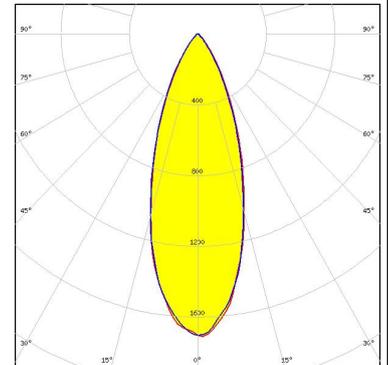
SAMSUNG

LED LH351C
 FWHM / FWTM 32.0° / 59.0°
 Efficiency 88 %
 Peak intensity 2.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



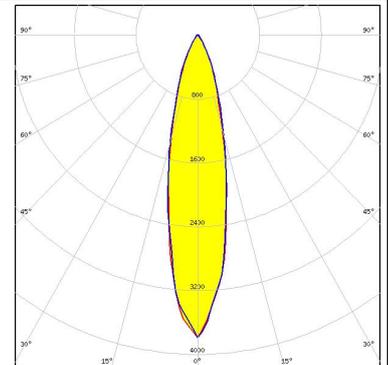
SAMSUNG

LED LH351D
 FWHM / FWTM 36.0° / 70.0°
 Efficiency 85 %
 Peak intensity 1.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



SAMSUNG

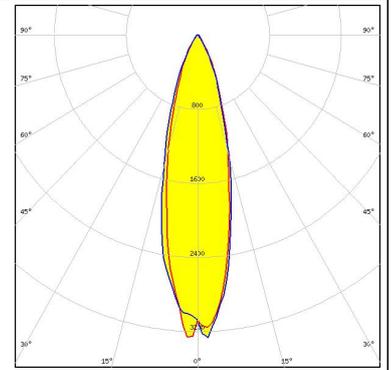
LED LM301A
 FWHM / FWTM 22.0° / 41.0°
 Efficiency 87 %
 Peak intensity 3.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



PHOTOMETRIC DATA (SIMULATED):

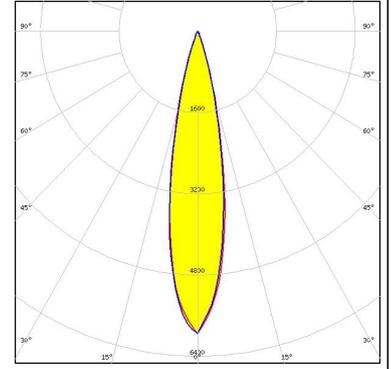
SAMSUNG

LED LM302A
FWHM / FWTM 25.0° / 47.0°
Efficiency 87 %
Peak intensity 3.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:



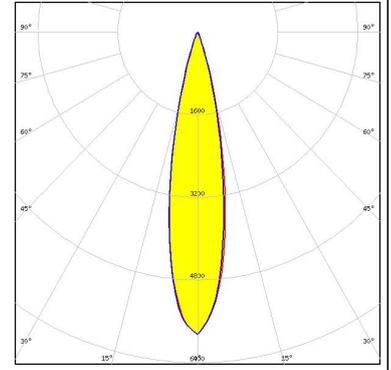
STANLEY

LED MFN1108MS
FWHM / FWTM 21.0° / 37.0°
Efficiency 91 %
Peak intensity 6 cd/lm
LEDs/each optic 1
Light colour IR
Required components:



STANLEY

LED MGN1108MS
FWHM / FWTM 22.0° / 37.0°
Efficiency 91 %
Peak intensity 5.9 cd/lm
LEDs/each optic 1
Light colour IR
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:

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.

LEDiL Oy assumes neither warranty, nor guarantee nor any other liability of any kind for the contents and correctness of the provided data. The provided data has been generated with highest diligence but the provided data may in reality not represent the complete possible variation range of all intrinsic parameters. Therefore, in certain cases a deviation from the provided data could occur.

LEDiL Oy reserves the right to undertake technical changes of its products without further notification which could lead to changes in the provided data. LEDiL Oy assumes no liability of any kind for the possible deviation from any provided data or any other damage resulting from the usage of the provided data.

The user agrees to this disclaimer and user agreement with the download or usage of the provided files.

LEDiL Oy

Joensuunkatu 13
FI-24240 SALO
Finland

LEDiL Inc.

228 West Page Street
Suite D
Sycamore IL 60178
USA

Ledil Optics Technology (Shenzhen) Co., Ltd.

405 , Block B
Casic Motor Building
Shenzhen 518057
P.R.CHINA

Local sales and technical support

[www.ledil.com/
where_to_buy](http://www.ledil.com/where_to_buy)

Shipping locations

Salo, Finland
Hong Kong, China

Distribution Partners

[www.ledil.com/
where_to_buy](http://www.ledil.com/where_to_buy)