# 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 |

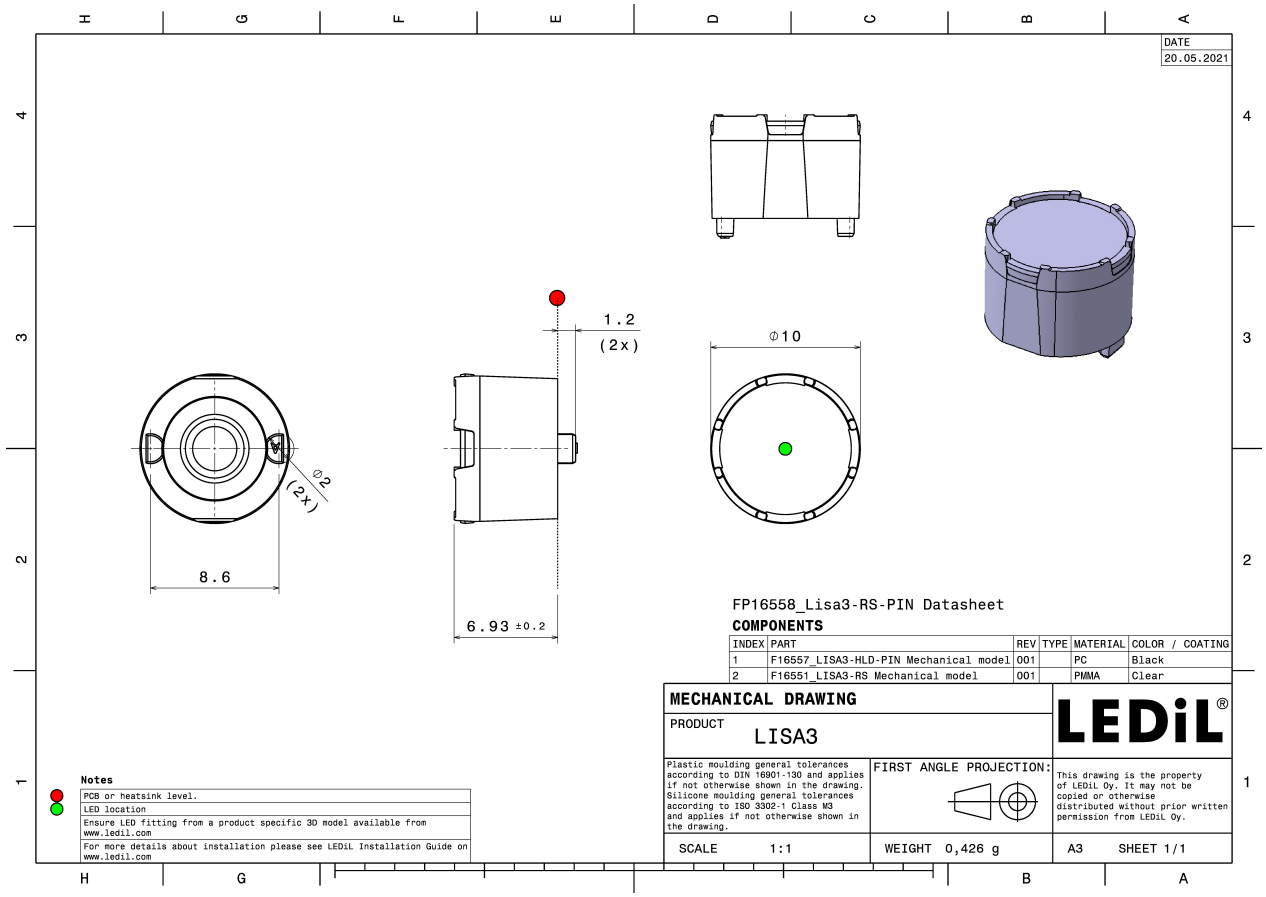
## MATERIAL SPECIFICATIONS:

| 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<br>» Box size: 310 x 230 x 60 mm | Single lens | 2000 | 300 | 100 | 1.3 |


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


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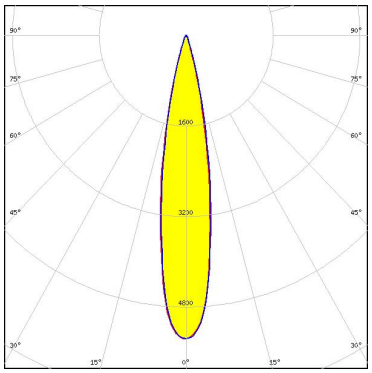
## PHOTOMETRIC DATA (MEASURED):

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:

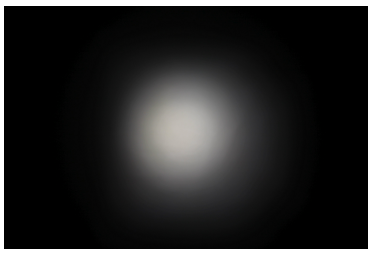


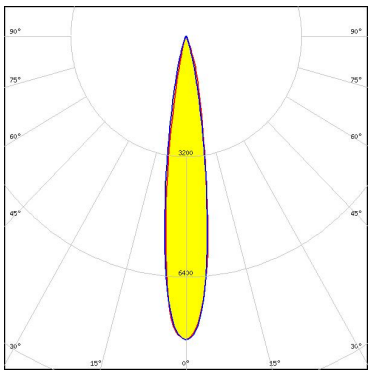


CREE LED

| | |
|---|---|
| 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:



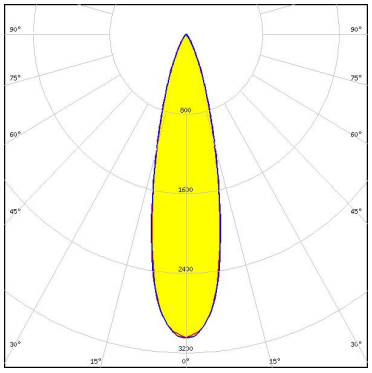


CREE LED

| | |
|---|---|
| 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:

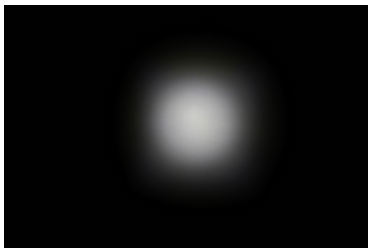


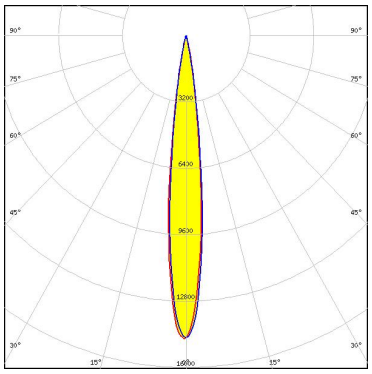


LUMILEDS

| | |
|---|---|
| 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:



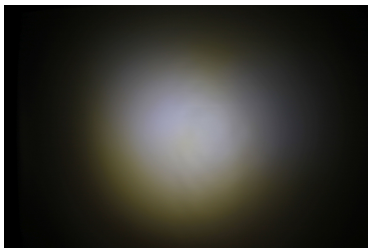


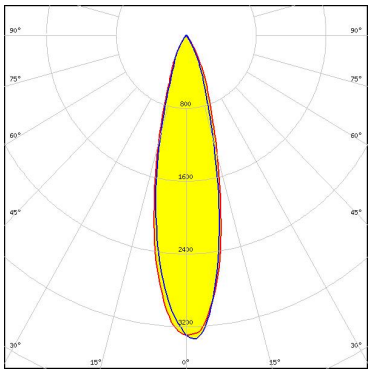

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## PHOTOMETRIC DATA (MEASURED):

NICHIA

| | |
|---|---|
| LED | NF2x757G |
| FWHM / FWTM | 25.0° / 52.0° |
| Efficiency | 88 % |
| Peak intensity | 3.3 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |

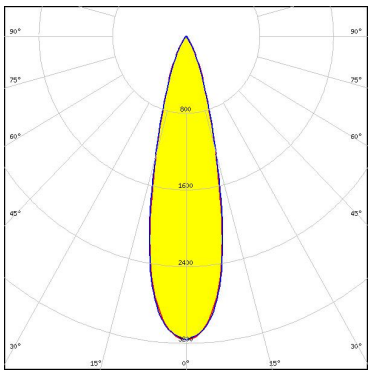




NICHIA

| | |
|---|---|
| LED | NVSW219F |
| FWHM / FWTM | 26.0° / 52.0° |
| Efficiency | 90 % |
| Peak intensity | 3.2 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |

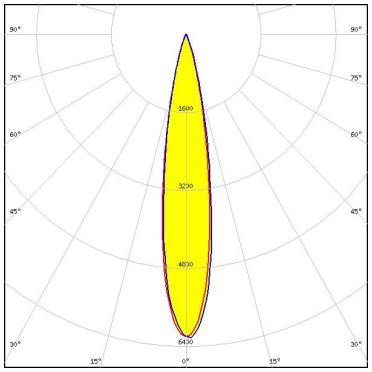




OSRAM
Opto Semiconductors

| | |
|---|---|
| LED | OSCONIQ C 2424 |
| FWHM / FWTM | 18.0° / 35.0° |
| Efficiency | 88 % |
| Peak intensity | 6.3 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |

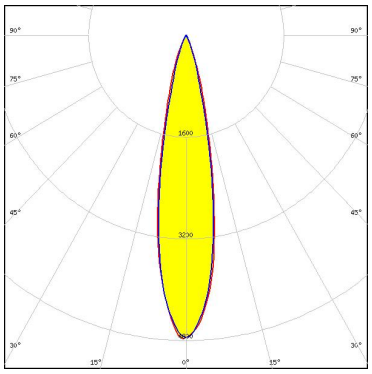




OSRAM
Opto Semiconductors

| | |
|---|---|
| LED | OSLON Square CSSRM2/CSSRM3 |
| FWHM / FWTM | 21.0° / 40.0° |
| Efficiency | 88 % |
| Peak intensity | 4.8 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |





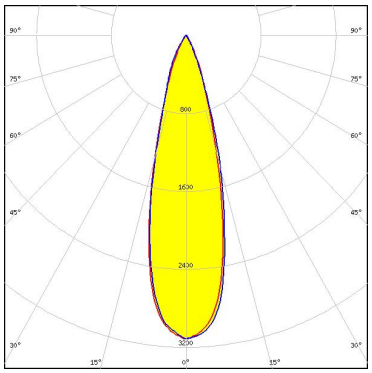

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## PHOTOMETRIC DATA (MEASURED):

SAMSUNG

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

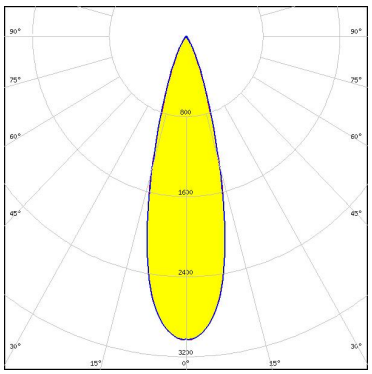





SEOUL SEMICONDUCTOR

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





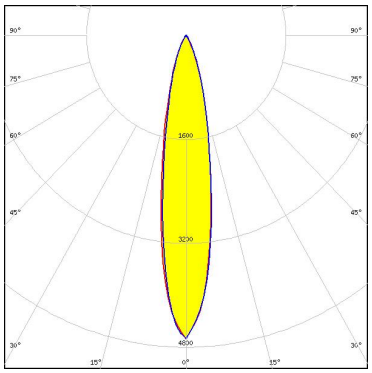


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## PHOTOMETRIC DATA (SIMULATED):

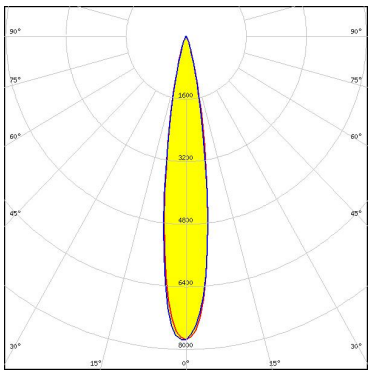
CREE LED

| | |
|---|---|
| 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: | |



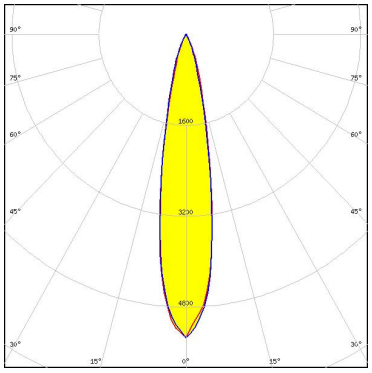
CREE LED

| | |
|---|---|
| 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: | |



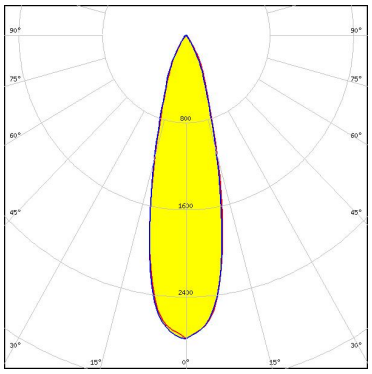
CREE LED

| | |
|---|---|
| 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: | |



CREE LED

| | |
|---|---|
| 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: | |

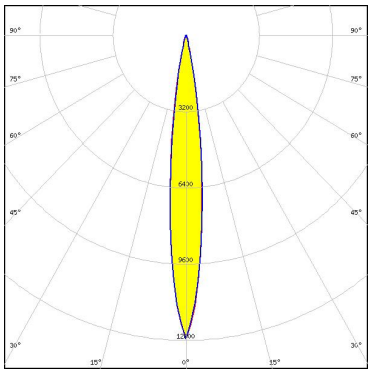



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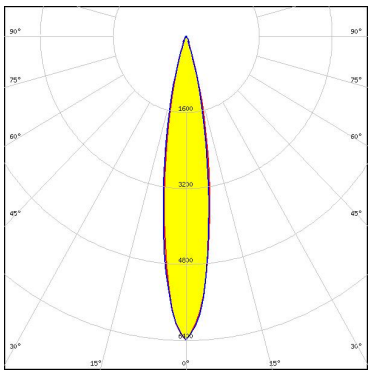
CREE LED

| | |
|---|---|
| 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: | |



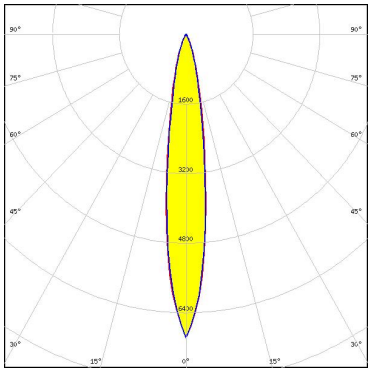
CREE LED

| | |
|---|---|
| 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: | |



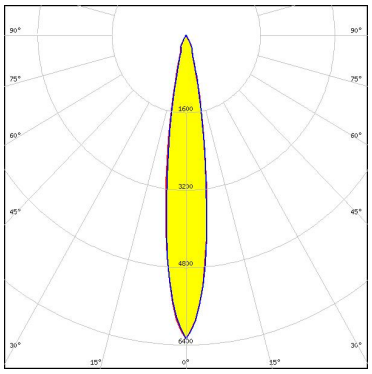
LUMILEDS

| | |
|---|---|
| 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: | |

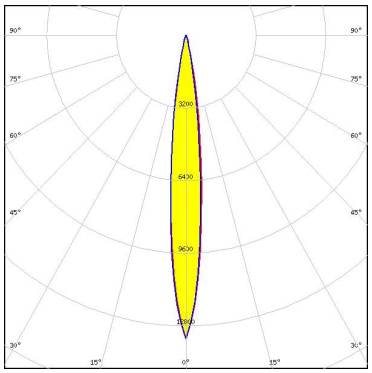



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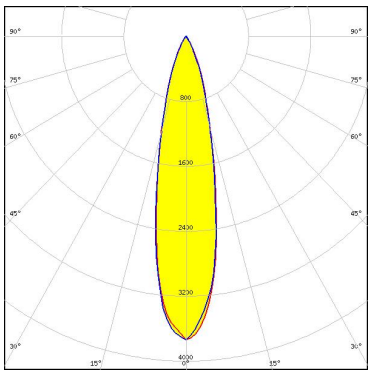
LUMILEDS

| | |
|---|---|
| LED | LUXEON CZ |
| FWHM / FWTM | 12.0° / 25.0° |
| Efficiency | 90 % |
| Peak intensity | 13.4 cd/lm |
| LEDs/each optic | 1 |
| Light colour | Red |
| Required components: | |



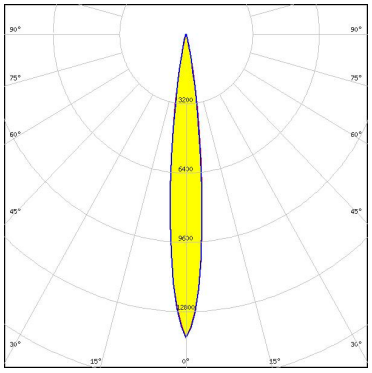
LUMILEDS

| | |
|---|---|
| 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: | |



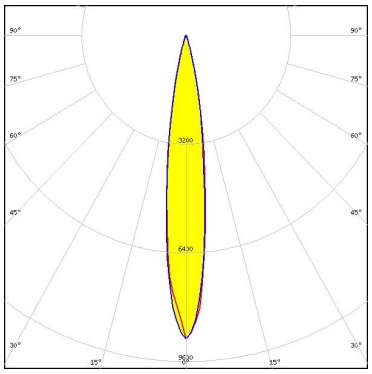
LUMILEDS

| | |
|---|---|
| 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: | |

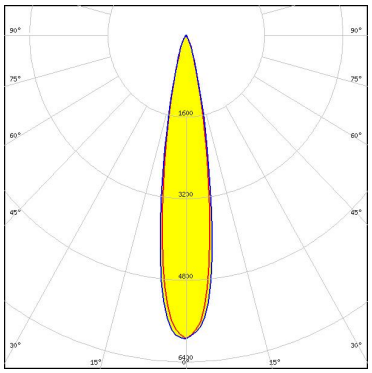



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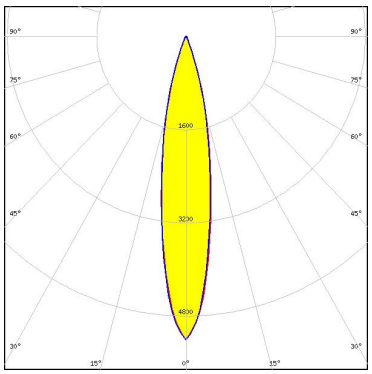
LUMINUS

| | |
|---|---|
| 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: | |



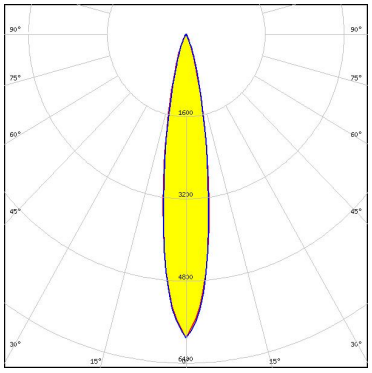
LUMINUS

| | |
|---|---|
| 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: | |



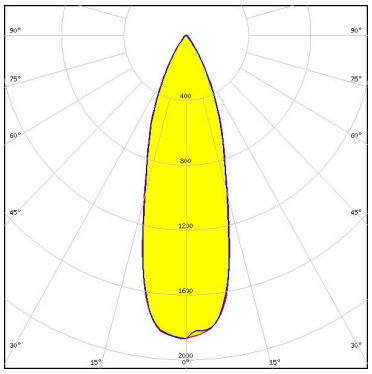
NICHIA

| | |
|---|---|
| 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: | |



NICHIA

| | |
|---|---|
| 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: | |

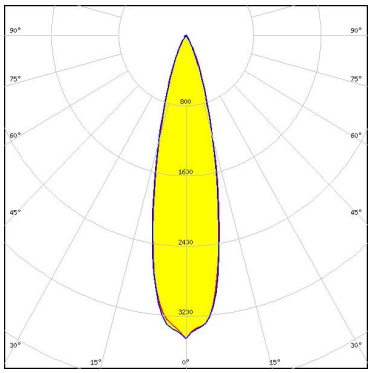



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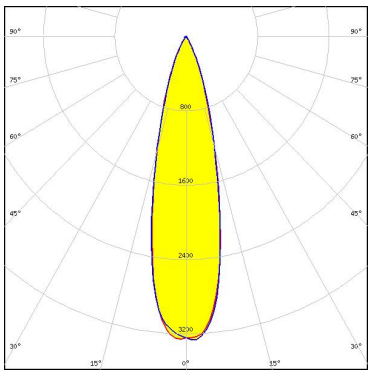
NICHIA

| | |
|---|---|
| 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: | |



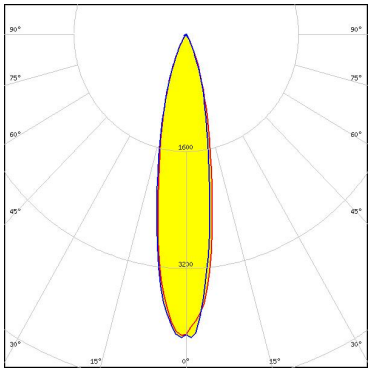
NICHIA

| | |
|---|---|
| LED | NVSxx19B/NVSxx19C |
| FWHM / FWTM | 26.0° / 50.0° |
| Efficiency | 85 % |
| Peak intensity | 3.3 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



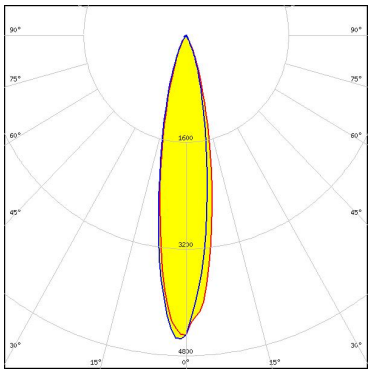
OSRAM
Opto Semiconductors

| | |
|---|---|
| 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: | |



OSRAM
Opto Semiconductors

| | |
|---|---|
| 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: | |

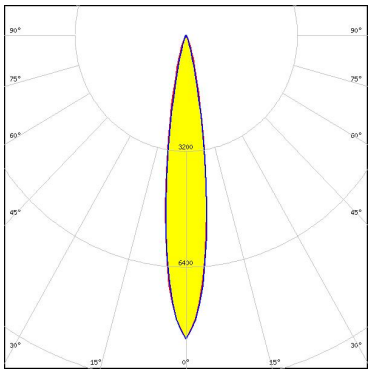



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## PHOTOMETRIC DATA (SIMULATED):

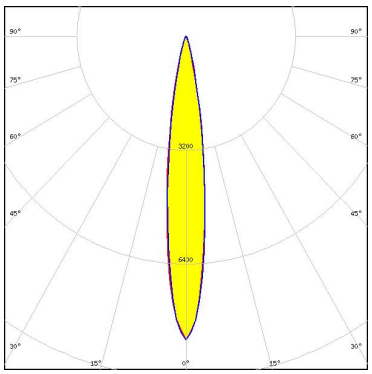
OSRAM
Opto Semiconductors

| | |
|---|---|
| LED | KW CULPM1.TG |
| FWHM / FWTM | 16.0° / 32.0° |
| Efficiency | 90 % |
| Peak intensity | 8.4 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



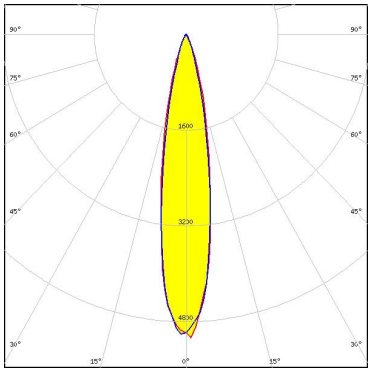
OSRAM
Opto Semiconductors

| | |
|---|---|
| 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: | |



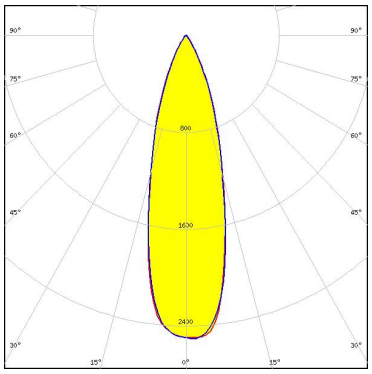
OSRAM
Opto Semiconductors

| | |
|---|---|
| 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
Opto Semiconductors

| | |
|---|---|
| LED | OSCONIQ P 3737 (3W version) |
| FWHM / FWTM | 29.0° / 58.0° |
| Efficiency | 88 % |
| Peak intensity | 2.5 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |

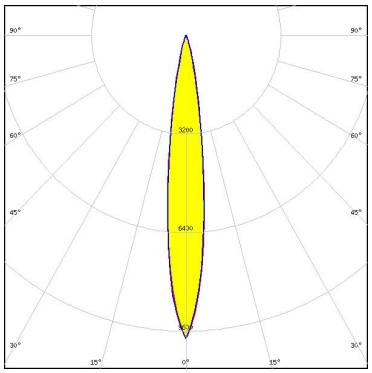



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## PHOTOMETRIC DATA (SIMULATED):

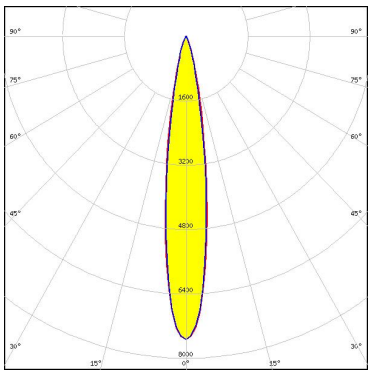
OSRAM
Opto Semiconductors

| | |
|---|---|
| LED | OSLON Signal |
| FWHM / FWTM | 14.0° / 29.0° |
| Efficiency | 88 % |
| Peak intensity | 9.9 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



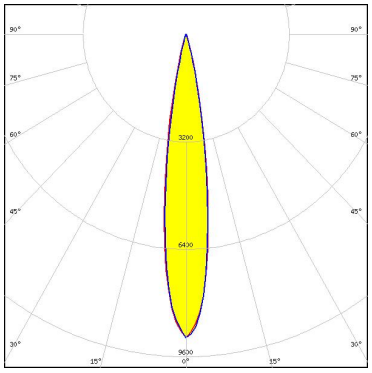
OSRAM
Opto Semiconductors

| | |
|---|---|
| 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: | |



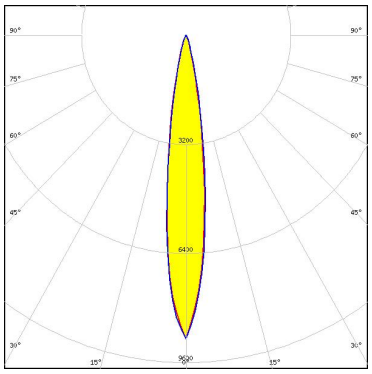
OSRAM
Opto Semiconductors

| | |
|---|---|
| LED | OSLON SSL 120 |
| FWHM / FWTM | 16.0° / 29.0° |
| Efficiency | 90 % |
| Peak intensity | 9 cd/lm |
| LEDs/each optic | 1 |
| Light colour | Hyper Red |
| Required components: | |



OSRAM
Opto Semiconductors

| | |
|---|---|
| LED | OSLON SSL 150 |
| FWHM / FWTM | 14.5° / 29.0° |
| Efficiency | 88 % |
| Peak intensity | 8.7 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |

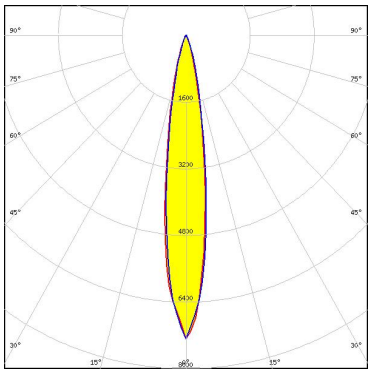



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## PHOTOMETRIC DATA (SIMULATED):

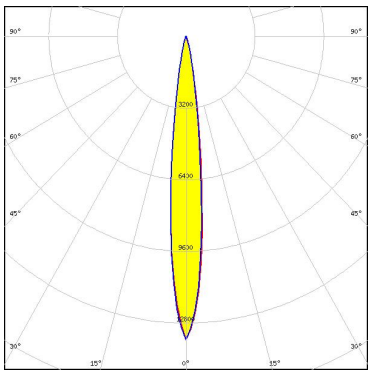
OSRAM Opto Semiconductors

| | |
|---|---|
| LED | OSLON SSL 80 |
| FWHM / FWTM | 15.0° / 31.0° |
| Efficiency | 87 % |
| Peak intensity | 7.6 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



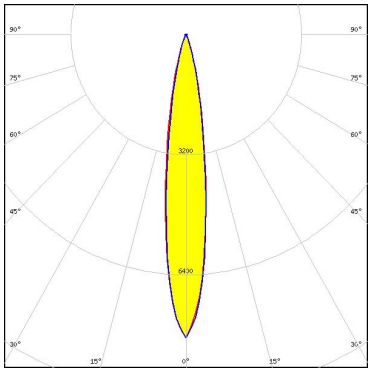
OSRAM Opto Semiconductors

| | |
|---|---|
| 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: | |



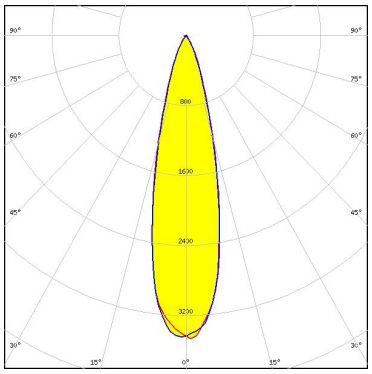
OSRAM Opto Semiconductors

| | |
|---|---|
| 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: | |



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: | |

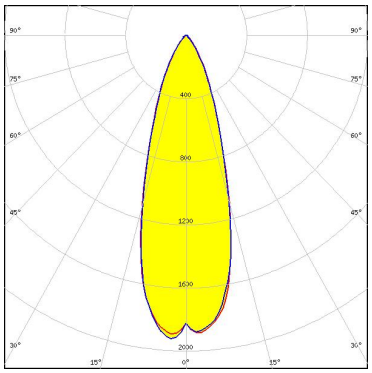



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## PHOTOMETRIC DATA (SIMULATED):

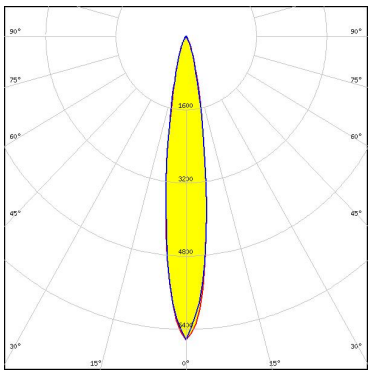
SAMSUNG

| | |
|---|---|
| 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: | |



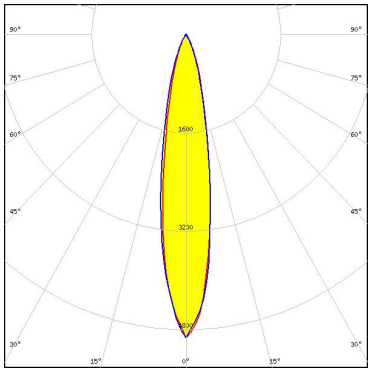
SAMSUNG

| | |
|---|---|
| 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: | |



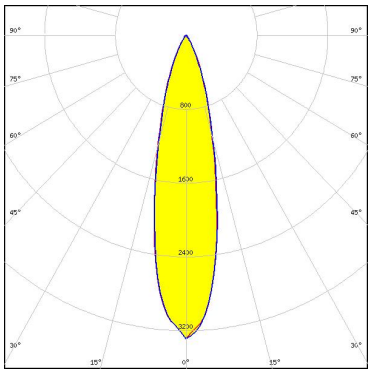
SAMSUNG

| | |
|---|---|
| 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: | |

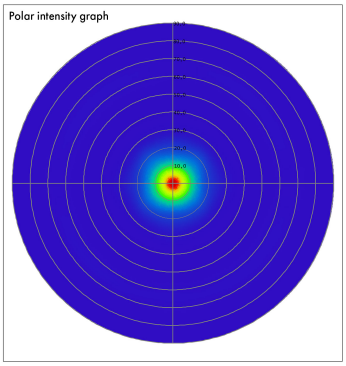


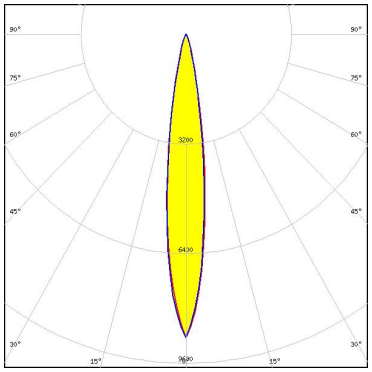

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## PHOTOMETRIC DATA (SIMULATED):

STANLEY

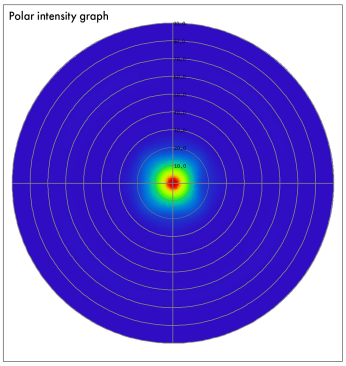
| | |
|---|---|
| LED | MGN1108MS |
| FWHM / FWTM | 15.0° / 30.0° |
| Efficiency | 89 % |
| LEDs/each optic | 1 |
| Light colour | IR |
| Required components: | |

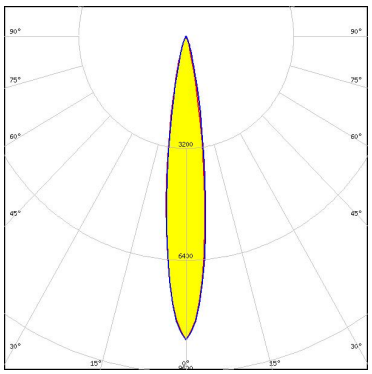


STANLEY

| | |
|---|---|
| LED | MJN1108MS |
| FWHM / FWTM | 15.0° / 31.0° |
| Efficiency | 90 % |
| LEDs/each optic | 1 |
| Light colour | IR |
| Required components: | |




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## 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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**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/
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