# LISA3CSP-WWW-PIN

**~60° wide beam**




## TECHNICAL SPECIFICATIONS:

| | |
|---|---|
| Dimensions | Ø 10.0 mm |
| Height | 7.2 mm |
| Fastening | pin |
| ROHS compliant | yes |

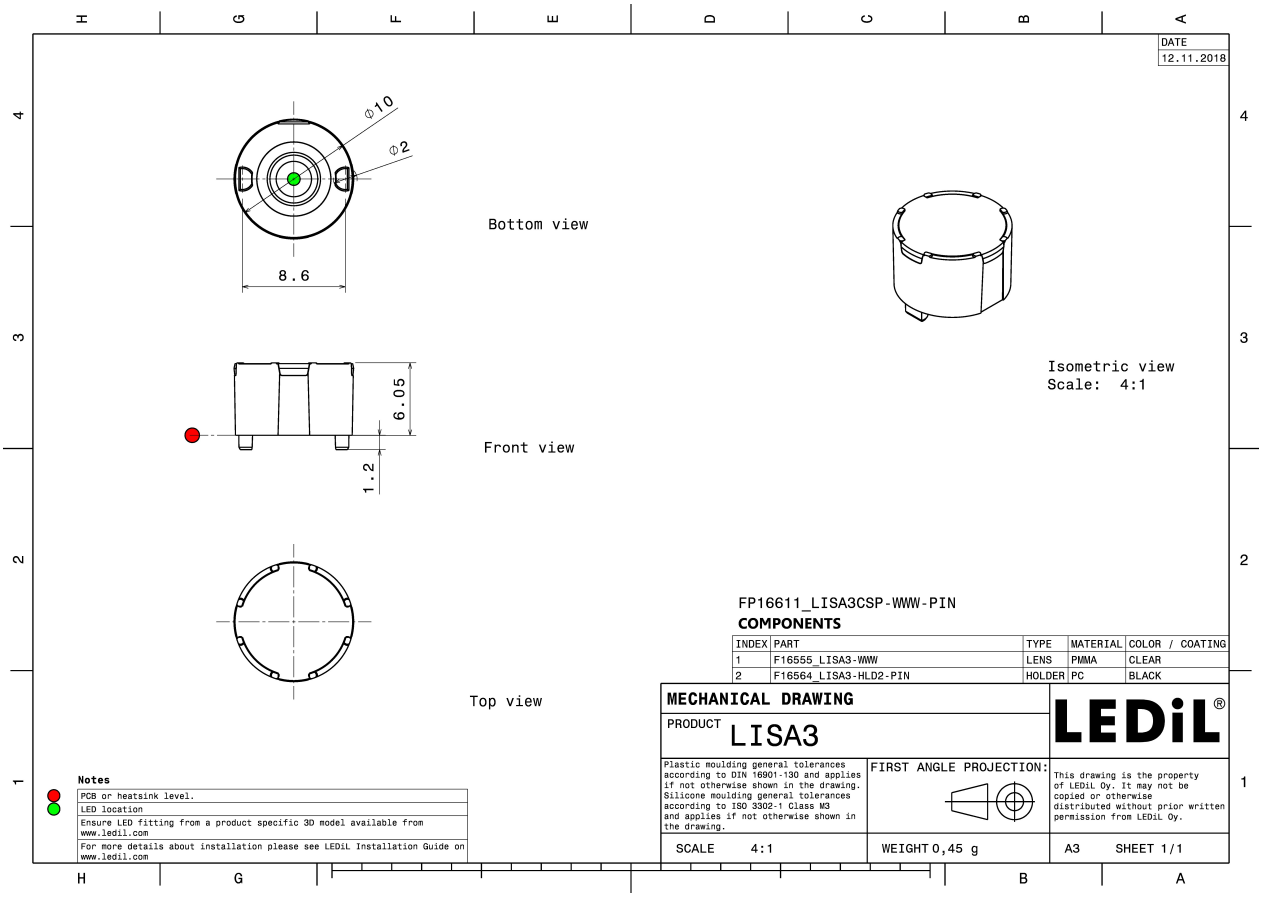
## MATERIAL SPECIFICATIONS:

| Component | Type | Material | Colour | Finish |
|---|---|---|---|---|
| LISA3-WWW | Single lens | PMMA | clear | |
| LISA3-HLD2-PIN | Holder | PC | black | |

## ORDERING INFORMATION:

| Component | | Qty in box | MOQ | MPQ | Box weight (kg) |
|---|---|---|---|---|---|
| FP16611_LISA3CSP-WWW-PIN<br>» Box size: 310 x 230 x 60 mm | Single lens | 2000 | 300 | 100 | 1.4 |


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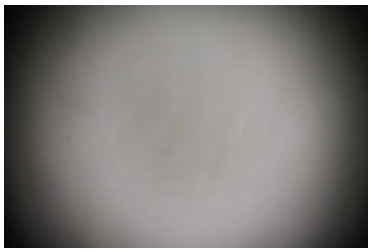

See also our general installation guide: [www.ledil.com/installation_guide](www.ledil.com/installation_guide)

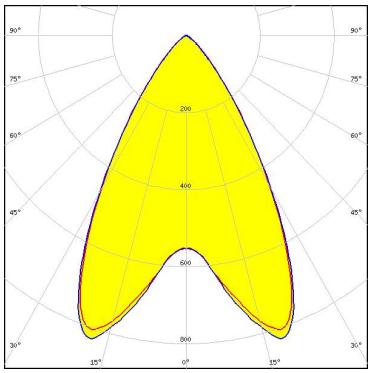

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## PHOTOMETRIC DATA (MEASURED):

NICHIA

| | |
|---|---|
| LED | NCSxE17A |
| FWHM / FWTM | 61.0° / 89.0° |
| Efficiency | 86 % |
| Peak intensity | 0.9 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |

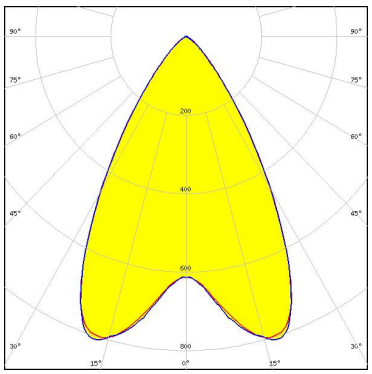




NICHIA

| | |
|---|---|
| LED | NVSxE21A |
| FWHM / FWTM | 60.0° / 90.0° |
| Efficiency | 86 % |
| Peak intensity | 0.9 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |

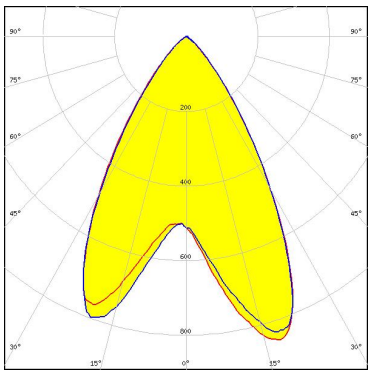




SAMSUNG

| | |
|---|---|
| LED | LH151B |
| FWHM / FWTM | 63.0° / 91.0° |
| Efficiency | 86 % |
| Peak intensity | 0.9 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |

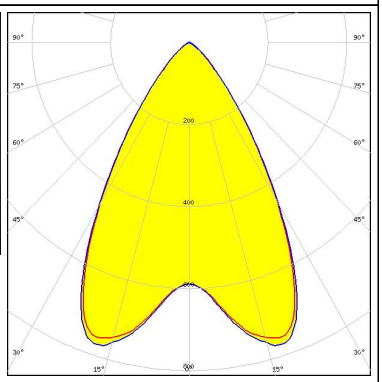




SAMSUNG

| | |
|---|---|
| LED | LH181B |
| FWHM / FWTM | 62.0° / 92.0° |
| Efficiency | 86 % |
| Peak intensity | 0.9 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



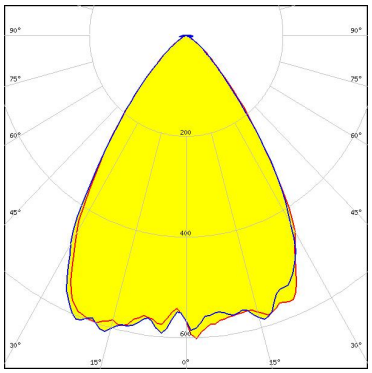



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## PHOTOMETRIC DATA (SIMULATED):

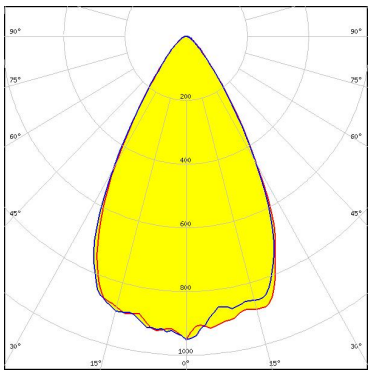
CREE LED

| | |
|---|---|
| LED | XD16 |
| FWHM / FWTM | 66.0 + ° |
| Efficiency | 80 % |
| Peak intensity | 1 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



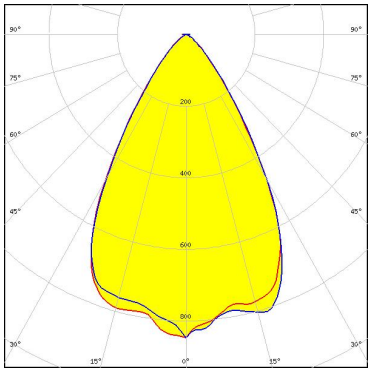
LUMILEDS

| | |
|---|---|
| LED | LUXEON CSP HL1 |
| FWHM / FWTM | 60.0 + 59.0° / 88.0° |
| Efficiency | 95 % |
| Peak intensity | 1 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



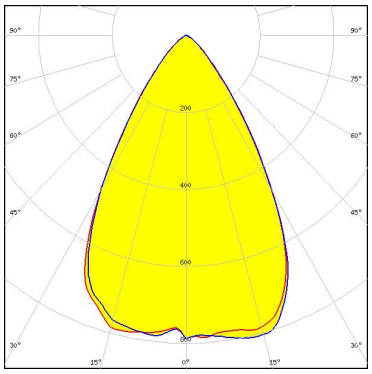
LUMILEDS

| | |
|---|---|
| LED | LUXEON HL1Z |
| FWHM / FWTM | 62.0° / 91.0° |
| Efficiency | 88 % |
| Peak intensity | 0.8 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



LUMILEDS

| | |
|---|---|
| LED | LUXEON HL2Z |
| FWHM / FWTM | 64.0 + 63.0° / 93.0 + 92.0° |
| Efficiency | 88 % |
| Peak intensity | 0.8 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |

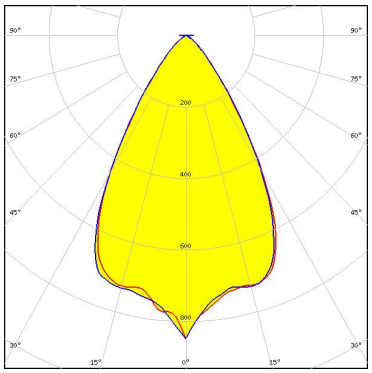



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## PHOTOMETRIC DATA (SIMULATED):

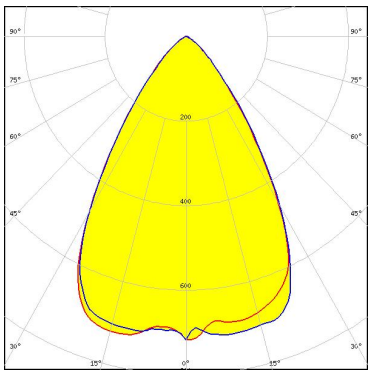
NICHIA

| | |
|---|---|
| LED | NFSWE11A |
| FWHM / FWTM | 61.0° / 90.0° |
| Efficiency | 82 % |
| Peak intensity | 0.8 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



OSRAM
Opto Semiconductors

| | |
|---|---|
| LED | OSCONIQ C 2424 |
| FWHM / FWTM | 66.0° / 98.0° |
| Efficiency | 86 % |
| Peak intensity | 0.7 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



SEOUL SEMICONDUCTOR

| | |
|---|---|
| LED | Z8Y15 |
| FWHM / FWTM | 63.0 + ° |
| Efficiency | 84 % |
| Peak intensity | 0.8 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |

SEOUL SEMICONDUCTOR

| | |
|---|---|
| LED | Z8Y19 |
| FWHM / FWTM | 63.0 + ° |
| Efficiency | 84 % |
| Peak intensity | 0.8 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |


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## PHOTOMETRIC DATA (SIMULATED):

SEOUL SEMICONDUCTOR

| | |
|---|---|
| LED | Z8Y22 |
| FWHM / FWTM | 62.0 + ° |
| Efficiency | 84 % |
| Peak intensity | 0.8 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| 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.

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