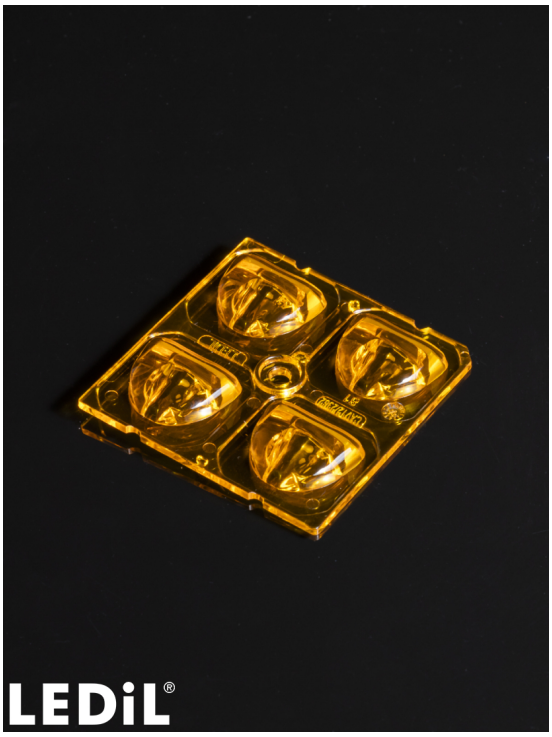
# AMBER-2X2-DWC

**Universal road lighting beam with excellent mixed illuminance and luminance uniformity. Typically IESNA Type III (medium).**




## SPECIFICATION:

| | |
|---|---|
| Dimensions | 50.0 x 50.0 mm |
| Height | 6 mm |
| Fastening | glue, pin, screw |
| ROHS compliant | yes |

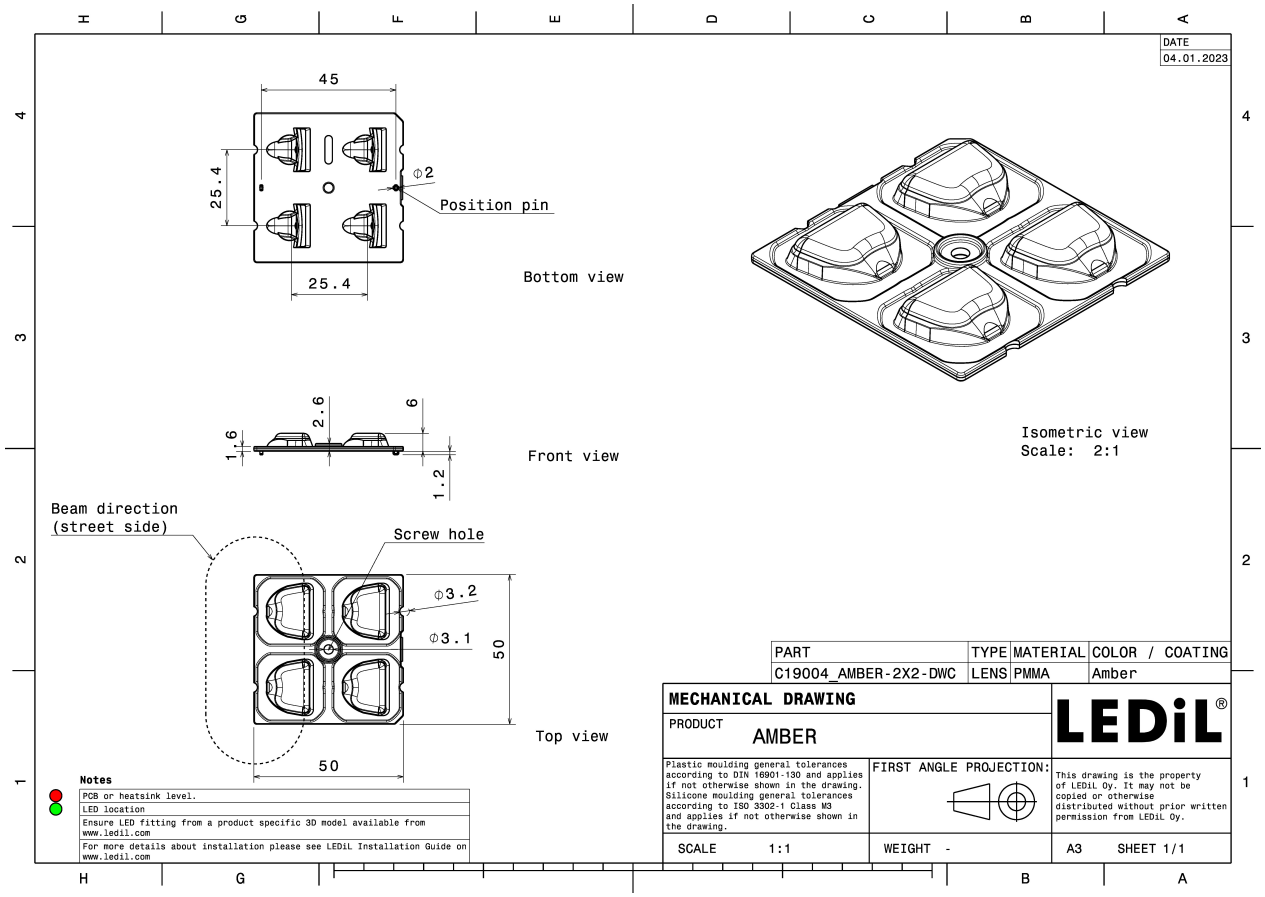
## MATERIALS:

| Component | Type | Material | Colour | Finish | Length |
|---|---|---|---|---|---|
| AMBER-2X2-DWC | Multi-lens | PMMA | amber | | 50.0 |

## ORDERING INFORMATION:

| Component | Qty in box | MOQ | MPQ | Box weight (kg) |
|---|---|---|---|---|
| C19004_AMBER-2X2-DWC<br>» Box size: 480 x 280 x 300 mm | 800 | 160 | 160 | 5.7 |


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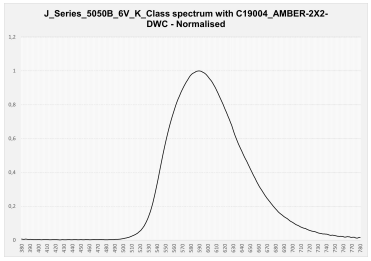

See also our general installation guide: [www.ledil.com/installation_guide](www.ledil.com/installation_guide)

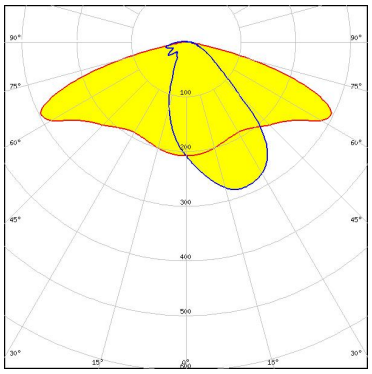

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## OPTICAL RESULTS (MEASURED):

CREE LEDs

| | | |
|---|---|---|
| LED | J Series 5050B 6V K Class | |
| FWHM / FWTM | Asymmetric | |
| Efficiency | 74 % | |
| Peak intensity | 0.4 cd/lm | |
| LEDs/each optic | 1 | |
| Light colour/type | White | |
| Amount of Blue light (380-500 nm) | | 0.4 % |
| CCT (LED/with lens)* | | 3763K/2251K |
| Required components: | | |

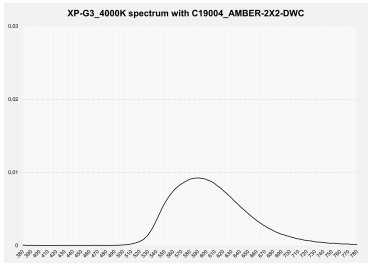


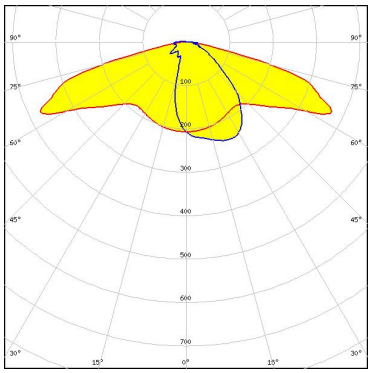



*the measured CCT with lens doesn't follow the Black Body Locus line

CREE LEDs

| | | |
|---|---|---|
| LED | XP-G3 | |
| FWHM / FWTM | Asymmetric | |
| Efficiency | 73 % | |
| Peak intensity | 0.4 cd/lm | |
| LEDs/each optic | 1 | |
| Light colour/type | White | |
| Amount of Blue light (380-500 nm) | | 0.3 % |
| CCT (LED/with lens)* | | 3844K/2282K |
| Required components: | | |

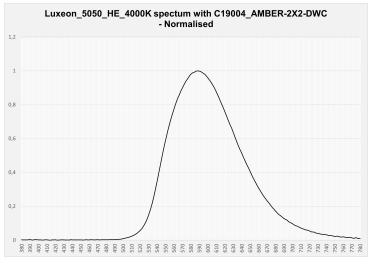


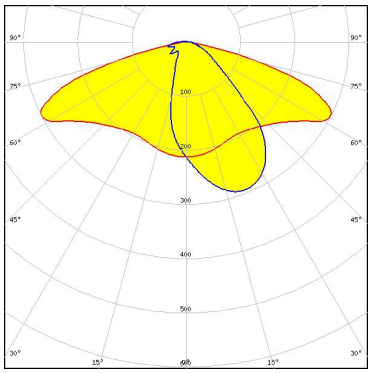



Light distribution files

LUMILEDS

| | | |
|---|---|---|
| LED | LUXEON 5050 HE | |
| FWHM / FWTM | Asymmetric | |
| Efficiency | 73 % | |
| Peak intensity | 0.4 cd/lm | |
| LEDs/each optic | 1 | |
| Light colour/type | White | |
| Amount of Blue light (380-500 nm) | | 0.4 % |
| CCT (LED/with lens)* | | 3854K/2291K |
| Required components: | | |



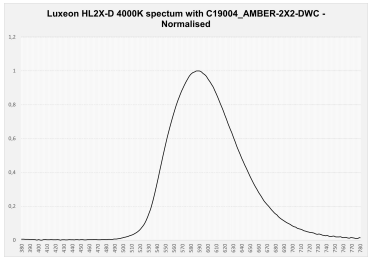
Light distribution files

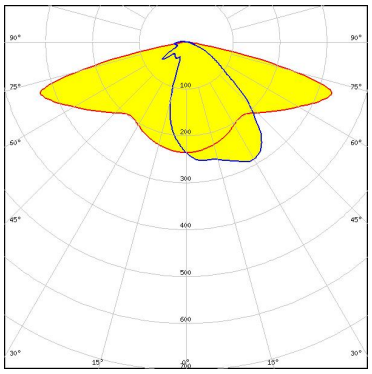

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## OPTICAL RESULTS (MEASURED):

LUMILEDS

| | | |
|---|---|---|
| LED | LUXEON HL2X-D | |
| FWHM / FWTM | Asymmetric | |
| Efficiency | 73 % | |
| Peak intensity | 0.4 cd/lm | |
| LEDs/each optic | 1 | |
| Light colour/type | White | |
| Amount of Blue light (380-500 nm) | | 0.4 % |
| CCT (LED/with lens)* | | 3900K/2296K |
| Required components: | | |

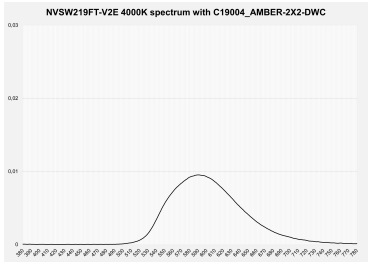


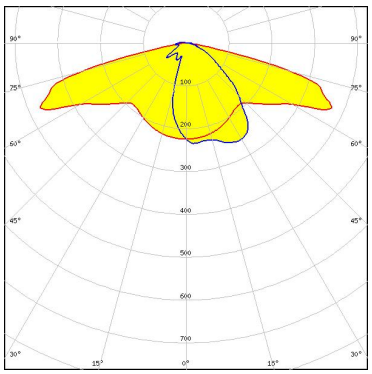



Light distribution files

NICHIA

| | | |
|---|---|---|
| LED | NVSW219F | |
| FWHM / FWTM | Asymmetric | |
| Efficiency | 73 % | |
| Peak intensity | 0.4 cd/lm | |
| LEDs/each optic | 1 | |
| Light colour/type | White | |
| Amount of Blue light (380-500 nm) | | 0.4 % |
| CCT (LED/with lens)* | | 3832K/2275K |
| Required components: | | |

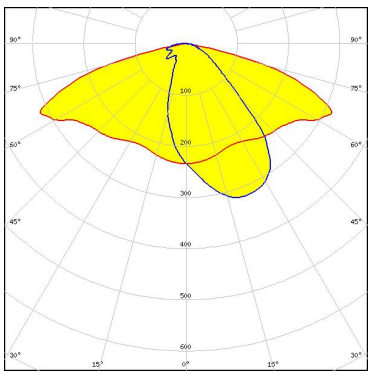


Light distribution files

OSRAM
Opto Semiconductors

| | |
|---|---|
| LED | Duris S8 |
| FWHM / FWTM | Asymmetric |
| Efficiency | 80 % |
| Peak intensity | 0.4 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



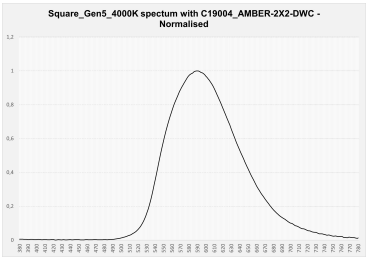
Light distribution files

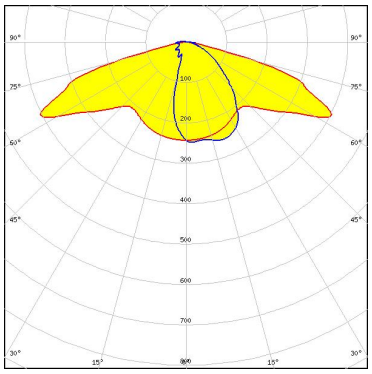

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## OPTICAL RESULTS (MEASURED):

OSRAM
Opto Semiconductors

| | | |
|---|---|---|
| LED | OSLON Square CSSRM2/CSSRM3 | |
| FWHM / FWTM | Asymmetric | |
| Efficiency | 73 % | |
| Peak intensity | 0.5 cd/lm | |
| LEDs/each optic | 1 | |
| Light colour/type | White | |
| Amount of Blue light (380-500 nm) | | 0.4 % |
| CCT (LED/with lens)* | | 3898K/2274K |
| Required components: | | |

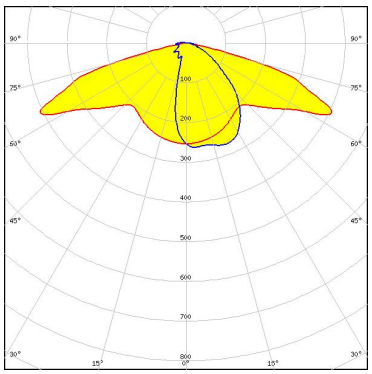


Light distribution files

PHILIPS

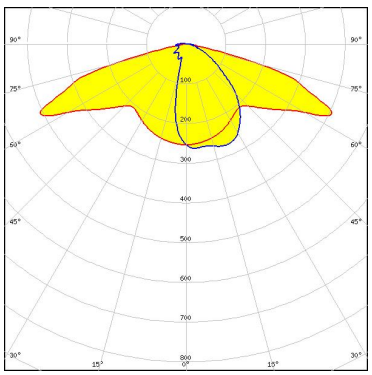
| | |
|---|---|
| LED | Fortimo FastFlex LED 2x8 DA G4+ |
| FWHM / FWTM | Asymmetric |
| Efficiency | 68 % |
| Peak intensity | 0.4 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files

PHILIPS

| | |
|---|---|
| LED | Fortimo FastFlex LED 2x8 DA G5 |
| FWHM / FWTM | Asymmetric |
| Efficiency | 72 % |
| Peak intensity | 0.4 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



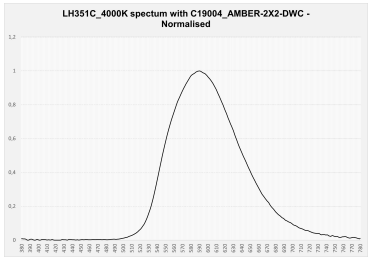
Light distribution files

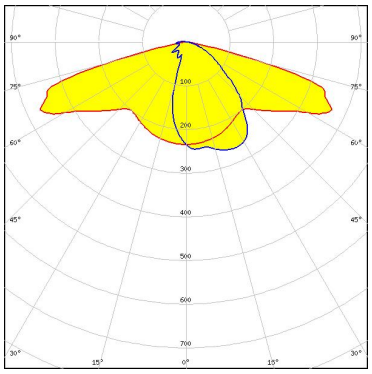

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## OPTICAL RESULTS (MEASURED):

SAMSUNG

| | | |
|---|---|---|
| LED | LH351C | |
| FWHM / FWTM | Asymmetric | |
| Efficiency | 73 % | |
| Peak intensity | 0.5 cd/lm | |
| LEDs/each optic | 1 | |
| Light colour/type | White | |
| Amount of Blue light (380-500 nm) | | 0.4 % |
| CCT (LED/with lens)* | | 3773K/2277K |
| Required components: | | |

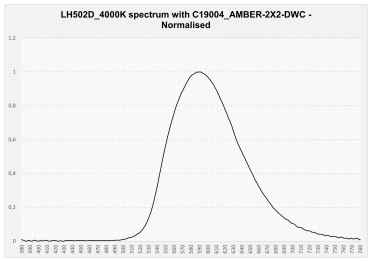


Light distribution files

SAMSUNG

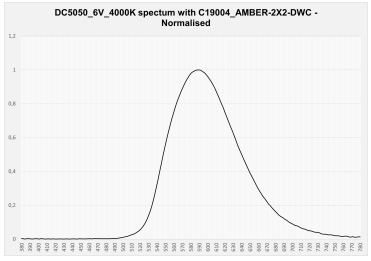
| | | |
|---|---|---|
| LED | LH502D | |
| FWHM / FWTM | Asymmetric | |
| Efficiency | 73 % | |
| Peak intensity | 0.4 cd/lm | |
| LEDs/each optic | 1 | |
| Light colour/type | White | |
| Amount of Blue light (380-500 nm) | | 0.4 % |
| CCT (LED/with lens)* | | 3785K/2233K |
| Required components: | | |

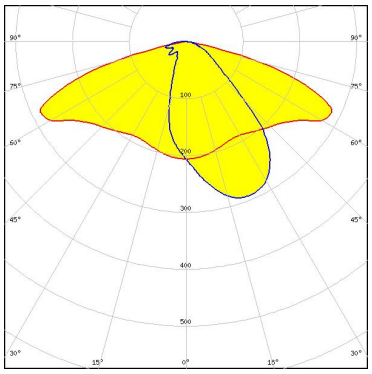



Light distribution files

SEOUL SEMICONDUCTOR

| | | |
|---|---|---|
| LED | SEOUL DC 5050 6V | |
| FWHM / FWTM | Asymmetric | |
| Efficiency | 73 % | |
| Peak intensity | 0.4 cd/lm | |
| LEDs/each optic | 1 | |
| Light colour/type | White | |
| Amount of Blue light (380-500 nm) | | 0.5 % |
| CCT (LED/with lens)* | | 3988K/2270K |
| Required components: | | |



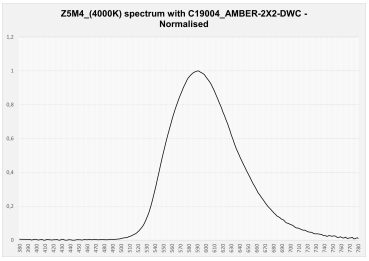
Light distribution files


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## OPTICAL RESULTS (MEASURED):

SEOUL SEMICONDUCTOR

| | | |
|---|---|---|
| LED | Z5M4 | |
| FWHM / FWTM | Asymmetric | |
| Efficiency | 74 % | |
| Peak intensity | 0.4 cd/lm | |
| LEDs/each optic | 1 | |
| Light colour/type | White | |
| Amount of Blue light (380-500 nm) | | 0.4 % |
| CCT (LED/with lens)* | | 3561K/2205K |
| Required components: | | |




Light distribution files


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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

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