# STRADELLA-16-T1-A-PC

**Asymmetric IESNA Type I (short) beam designed for tilted poles. Suitable for Indian EESL specification. Variant made from PC.**


## SPECIFICATION:

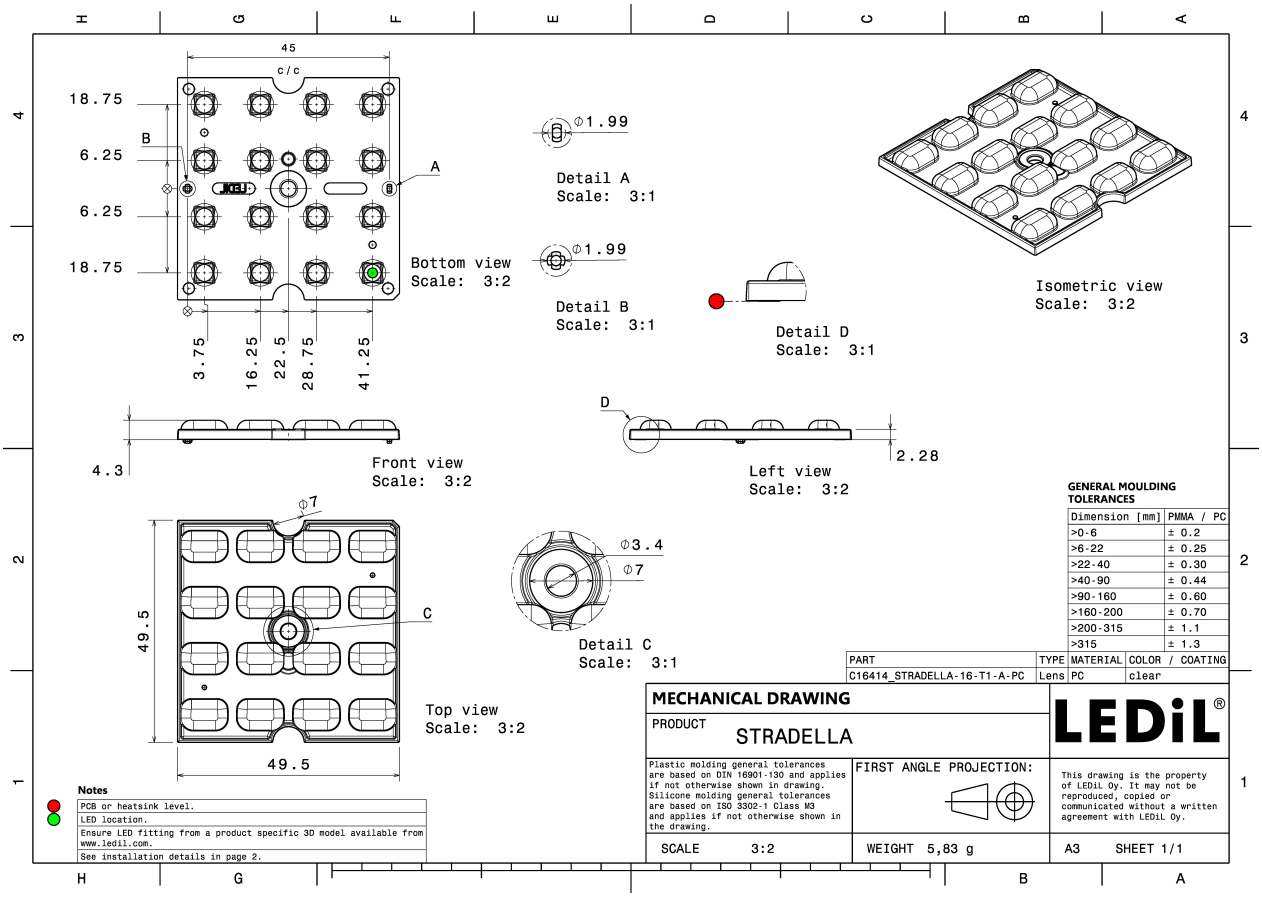
| | |
|---|---|
| Dimensions | 49.5 x 49.5 mm |
| Height | 4.3 mm |
| Fastening | pin, screw |
| ROHS compliant | yes |

## MATERIALS:

| Component | Type | Material | Colour | Finish | Length |
|---|---|---|---|---|---|
| STRADELLA-16-T1-A-PC | Multi-lens | PC | clear | | 49.5 |

## ORDERING INFORMATION:

| Component | Qty in box | MOQ | MPQ | Box weight (kg) |
|---|---|---|---|---|
| C16414_STRADELLA-16-T1-A-PC<br>» Box size: 480 x 280 x 300 mm | 800 | | 160 | 5.5 |




**GENERAL MOULDING TOLERANCES**

| Dimension [mm] | PMMA / PC |
|---|---|
| >0-6 | ± 0.2 |
| >6-22 | ± 0.25 |
| >22-40 | ± 0.30 |
| >40-90 | ± 0.44 |
| >90-160 | ± 0.60 |
| >160-200 | ± 0.70 |
| >200-315 | ± 1.1 |
| >315 | ± 1.3 |

| PART | TYPE | MATERIAL | COLOR / COATING |
|---|---|---|---|
| C16414_STRADELLA-16-T1-A-PC | Lens | PC | clear |

**Notes**

| |
|---|
| PCB or heatsink level. |
| LED location. |
| Ensure LED fitting from a product specific 3D model available from www.ledil.com. |
| See installation details in page 2. |

**MECHANICAL DRAWING**

PRODUCT
STRADELLA

Plastic molding general tolerances are based on DIN 16901-130 and applies if not otherwise shown in drawing. Silicone molding general tolerances are based on ISO 3302-1 Class M3 and applies if not otherwise shown in the drawing.

FIRST ANGLE PROJECTION:



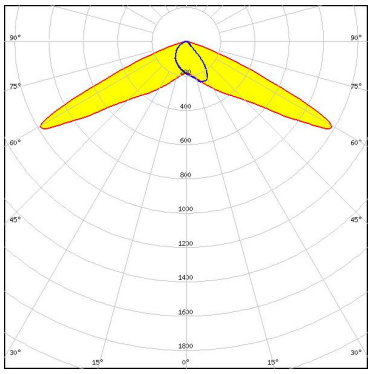
SCALE 3:2 | WEIGHT 5,83 g | A3 | SHEET 1/1

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

## OPTICAL RESULTS (MEASURED):

ELECTRIO

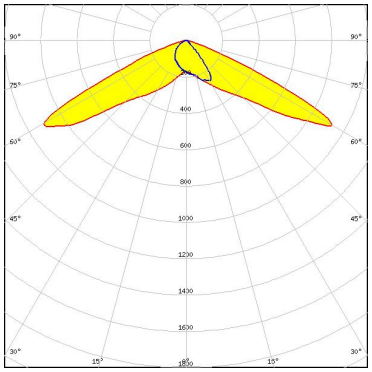
| | |
|---|---|
| LED | EHP-223.5x50-1604-xx-70-LS30-06-NTC |
| FWHM / FWTM | Asymmetric |
| Efficiency | 94 % |
| Peak intensity | 1 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files

NICHIA

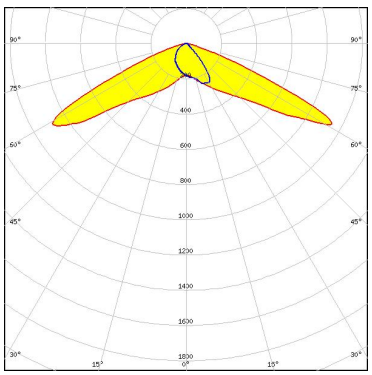
| | |
|---|---|
| LED | NFSx757D |
| FWHM / FWTM | Asymmetric |
| Efficiency | 94 % |
| Peak intensity | 1.2 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files

NICHIA

| | |
|---|---|
| LED | NFSx757G |
| FWHM / FWTM | Asymmetric |
| Efficiency | 94 % |
| Peak intensity | 1.1 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |

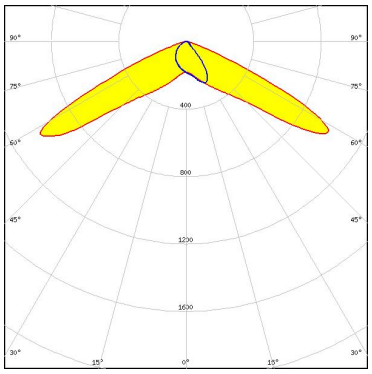


Light distribution files

## OPTICAL RESULTS (MEASURED):

OSRAM
Opto Semiconductors

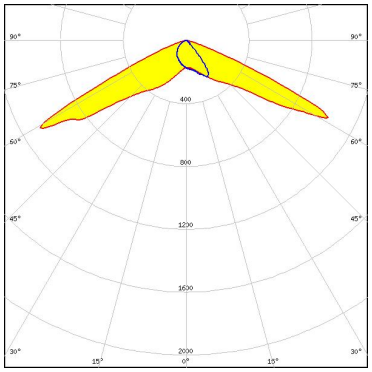
| | |
|---|---|
| LED | Duris S5 (2 chip) |
| FWHM / FWTM | Asymmetric |
| Efficiency | 94 % |
| Peak intensity | 1.1 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | Purple |
| Required components: | |



Light distribution files

OSRAM
Opto Semiconductors

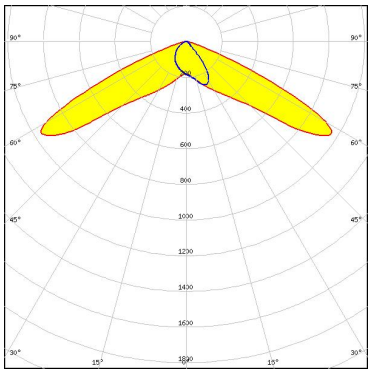
| | |
|---|---|
| LED | Duris S5 (Single chip) |
| FWHM / FWTM | Asymmetric |
| Efficiency | 93 % |
| Peak intensity | 1.5 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files

OSRAM
Opto Semiconductors

| | |
|---|---|
| LED | OSCONIQ S 3030 (QSLR31) |
| FWHM / FWTM | Asymmetric |
| Efficiency | 94 % |
| Peak intensity | 1 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |

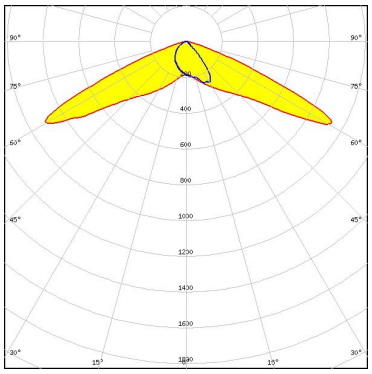


Light distribution files

## OPTICAL RESULTS (MEASURED):

### PHILIPS

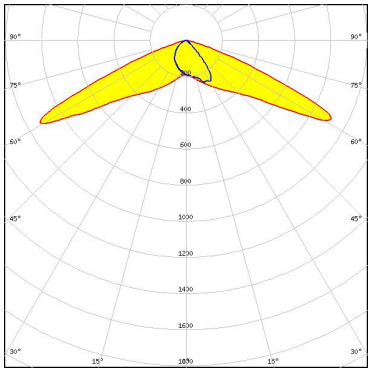
| | |
|---|---|
| LED | Fortimo FastFlex LED 4x16 DHE G4 |
| FWHM / FWTM | Asymmetric |
| Efficiency | 94 % |
| Peak intensity | 1.1 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files

### SAMSUNG

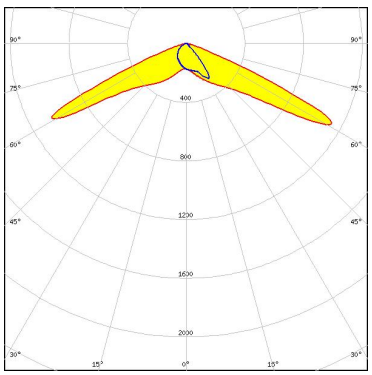
| | |
|---|---|
| LED | HiLOM RM64 (LM301B) |
| FWHM / FWTM | Asymmetric |
| Efficiency | 94 % |
| Peak intensity | 1.1 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files

### SAMSUNG

| | |
|---|---|
| LED | LM231 A/B |
| FWHM / FWTM | Asymmetric |
| Efficiency | 94 % |
| Peak intensity | 1.5 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |

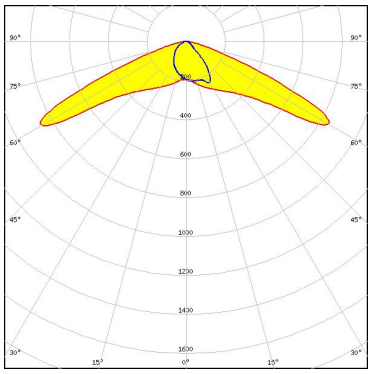


Light distribution files

## OPTICAL RESULTS (MEASURED):

SCIOLUX

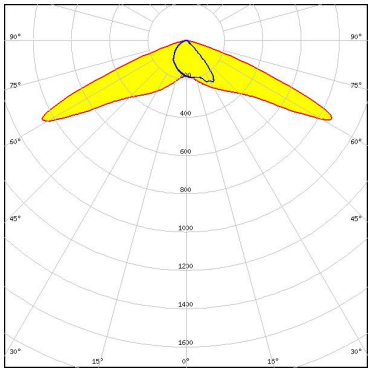
| | |
|---|---|
| LED | XLE-S44XTEHE (XT-E HE) |
| FWHM / FWTM | Asymmetric |
| Efficiency | 94 % |
| Peak intensity | 0.9 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files

TRIDONIC

| | |
|---|---|
| LED | RLE 4x16 4000lm MP ADV2 OTD |
| FWHM / FWTM | Asymmetric |
| Efficiency | 94 % |
| Peak intensity | 1.2 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files

TRIDONIC

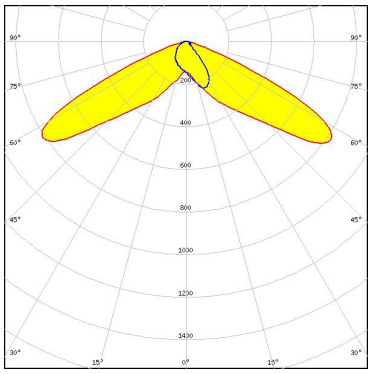
| | |
|---|---|
| LED | RLE 4x8 2000lm MP ADV2 OTD |
| FWHM / FWTM | Asymmetric |
| Efficiency | 94 % |
| Peak intensity | 1.2 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |

Light distribution files

## OPTICAL RESULTS (SIMULATED):

bridgelux

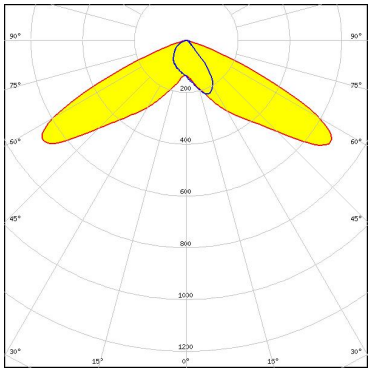
| | |
|---|---|
| LED | CSP 2727 (BXCP) |
| FWHM / FWTM | Asymmetric |
| Efficiency | 90 % |
| Peak intensity | 0.8 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files

bridgelux

| | |
|---|---|
| LED | CSP 2727 (BXCP) |
| FWHM / FWTM | Asymmetric |
| Efficiency | 81 % |
| Peak intensity | 0.7 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |

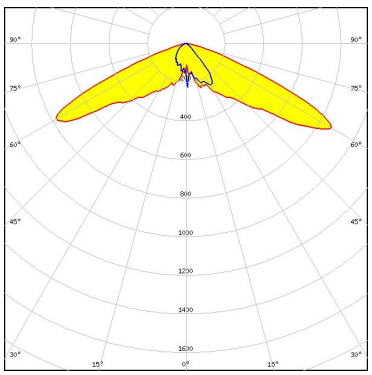


Protective plate, glass

Light distribution files

CREE LEDs

| | |
|---|---|
| LED | J Series 3030 |
| FWHM / FWTM | Asymmetric |
| Efficiency | 91 % |
| Peak intensity | 1 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |

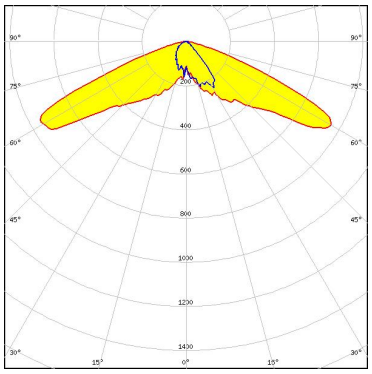


Light distribution files

## OPTICAL RESULTS (SIMULATED):

LUMILEDS

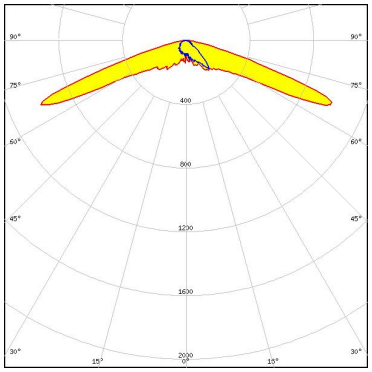
| | |
|---|---|
| LED | LUXEON 3030 2D (Round LES) |
| FWHM / FWTM | Asymmetric |
| Efficiency | 0 % |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files

LUMILEDS

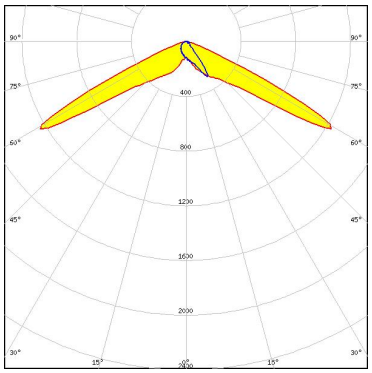
| | |
|---|---|
| LED | LUXEON C |
| FWHM / FWTM | Asymmetric |
| Efficiency | 89 % |
| Peak intensity | 1.2 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | RGBW |
| Required components: | |



Light distribution files

NICHIA

| | |
|---|---|
| LED | NFSWE11A |
| FWHM / FWTM | Asymmetric |
| Efficiency | 88 % |
| Peak intensity | 1.4 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |

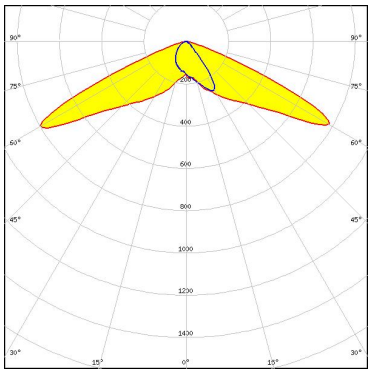


Light distribution files

## OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

| | |
|---|---|
| LED | Duris S5 (Single chip) |
| FWHM / FWTM | Asymmetric |
| Efficiency | 83 % |
| Peak intensity | 0.8 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |

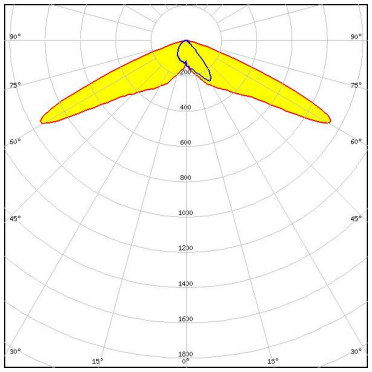


Protective plate, glass

Light distribution files

OSRAM
Opto Semiconductors

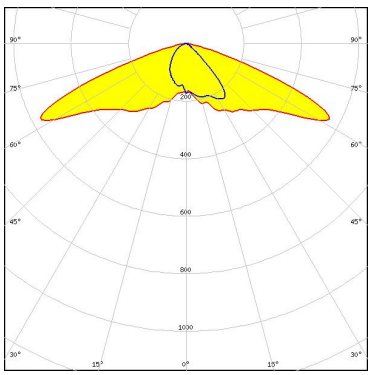
| | |
|---|---|
| LED | OSCONIQ C 2424 |
| FWHM / FWTM | Asymmetric |
| Efficiency | 92 % |
| Peak intensity | 1 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files

OSRAM
Opto Semiconductors

| | |
|---|---|
| LED | OSLON Square CSSRM2/CSSRM3 |
| FWHM / FWTM | Asymmetric |
| Efficiency | 82 % |
| Peak intensity | 0.6 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



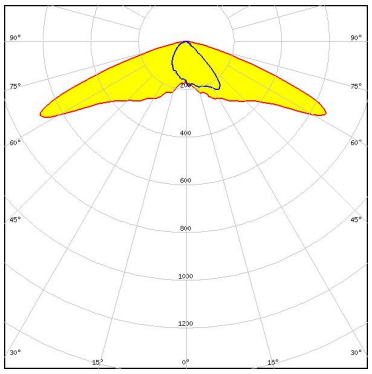
Protective plate, glass

Light distribution files

## OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

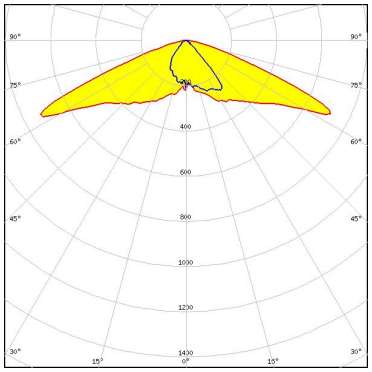
| | |
|---|---|
| LED | OSLON Square CSSRM2/CSSRM3 |
| FWHM / FWTM | Asymmetric |
| Efficiency | 91 % |
| Peak intensity | 0.8 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files

OSRAM
Opto Semiconductors

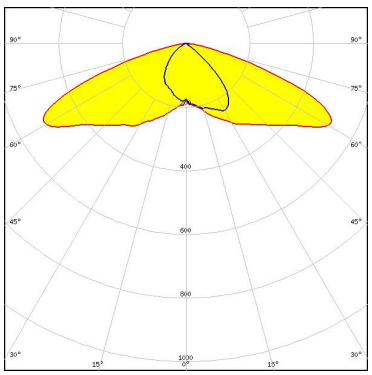
| | |
|---|---|
| LED | OSLON Square PC |
| FWHM / FWTM | Asymmetric |
| Efficiency | 91 % |
| Peak intensity | 0.8 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files

SAMSUNG

| | |
|---|---|
| LED | LH351B |
| FWHM / FWTM | Asymmetric |
| Efficiency | 88 % |
| Peak intensity | 0.5 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files

## OPTICAL RESULTS (SIMULATED):

SAMSUNG

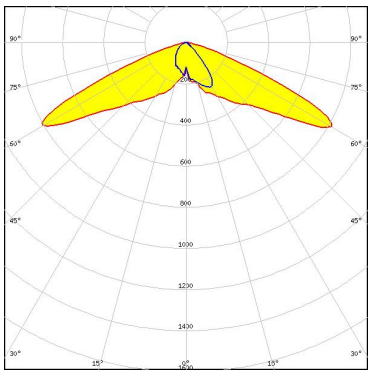
| | |
|---|---|
| LED | LM301B |
| FWHM / FWTM | Asymmetric |
| Efficiency | 81 % |
| Peak intensity | 0.7 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |

Protective plate, glass

Light distribution files

SAMSUNG

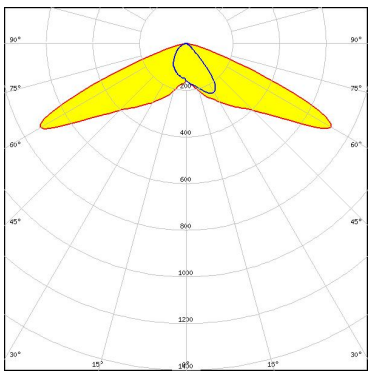
| | |
|---|---|
| LED | LM301B |
| FWHM / FWTM | Asymmetric |
| Efficiency | 91 % |
| Peak intensity | 0.9 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files

SAMSUNG

| | |
|---|---|
| LED | LM301B |
| FWHM / FWTM | Asymmetric |
| Efficiency | 85 % |
| Peak intensity | 0.8 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



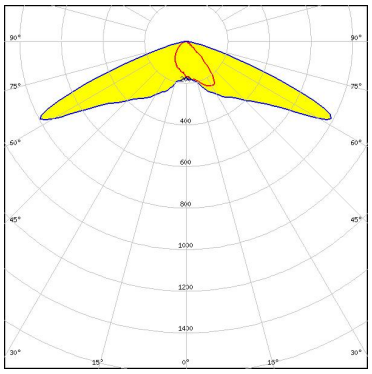
Protective plate, glass

Light distribution files

## OPTICAL RESULTS (SIMULATED):

SEOUL SEMICONDUCTOR

| | |
|---|---|
| LED | SEOUL DC 3030C |
| FWHM / FWTM | Asymmetric |
| Efficiency | 92 % |
| Peak intensity | 0.8 cd/lm |
| LEDs/each optic | 1 |
| Light colour/type | White |
| Required components: | |



Light distribution files

## 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

**Shipping locations**
Poznan, Poland
Hong Kong, China

**Distribution Partners**
www.ledil.com/
where_to_buy