# GABRIELLA-MIDI-S

**~10° spot beam with holder and installation tape**


## TECHNICAL SPECIFICATIONS:

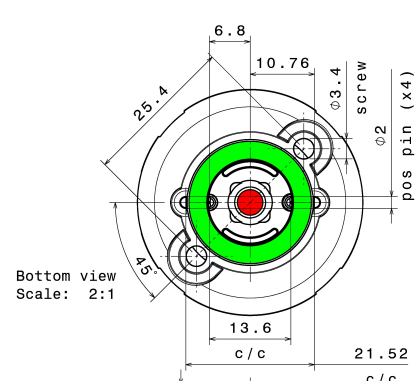
| | |
|---|---|
| Dimensions | Ø 37.8 mm |
| Height | 24.1 mm |
| Fastening | tape, pin |
| ROHS compliant | yes |

## MATERIAL SPECIFICATIONS:

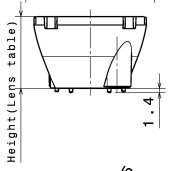
| Component | Type | Material | Colour | Finish |
|---|---|---|---|---|
| GABRIELLA-MIDI-S | Single lens | PMMA | clear | |
| GABRIELLA-MIDI-HLD | Holder | PC | black | |
| GABRIELLA-MIDI-TAPE | Tape | PU tape | black | |

## ORDERING INFORMATION:

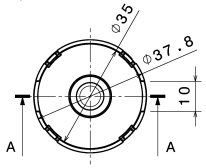
| Component | | Qty in box | MOQ | MPQ | Box weight (kg) |
|---|---|---|---|---|---|
| CA16202_GABRIELLA-MIDI-S<br>» Box size: 476 x 273 x 292 mm | Single lens | 500 | 100 | 50 | 11.7 |



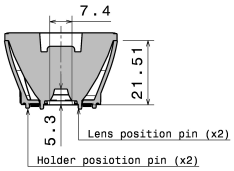

Bottom view
Scale: 2:1



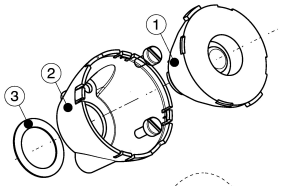

Front view
Scale: 1:1

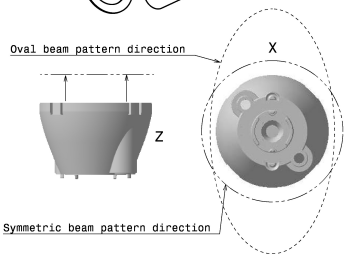



Top view
Scale: 1:1




Section view A-A
Scale: 1:1




**Lens table**

| ASSEMBLY CODE | Lens | Height |
|---|---|---|
| CA16202_GABRIELLA-MIDI-S | C16193_GABRIELLA-MIDI-S | 24.08mm |
| CA16203_GABRIELLA-MIDI-M | C16194_GABRIELLA-MIDI-M | 24.08mm |
| CA16204_GABRIELLA-MIDI-W | C16195_GABRIELLA-MIDI-W | 24.17mm |
| CA16205_GABRIELLA-MIDI-O | C16196_GABRIELLA-MIDI-O | 24.29mm |

**ASSEMBLY COMPONENTS**

| INDEX | PRODUCT | TYPE | MATERIAL | COLOUR/COATING |
|---|---|---|---|---|
| 1 | GABRIELLA-MIDI-Lens (See assembly table) | LENS | PMMA | CLEAR |
| 2 | C16192_GABRIELLA-MIDI-HLD | HOLDER | PC | BLACK |
| 3 | C16306_GABRIELLA-MIDI-TAPE | TAPE | PU | BLACK |

**Notes**

| |
|---|
| PCB or Heat Sink level |
| Led location see marking. |
| Ensure LED fitting, see our web site and/or 3D model for part detail. |
| See more information on page 2,3,4 |
| Optional parts can be shown in drawing. |

**MECHANICAL DRAWING**

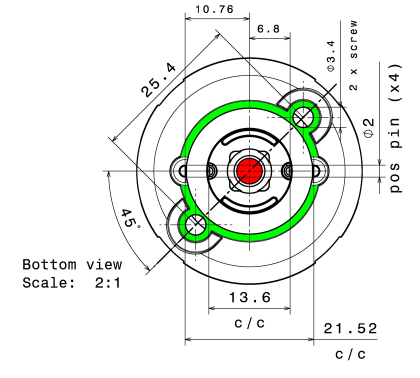
PRODUCT
GABRIELLA-MIDI

Tolerances if not otherwise shown
According to DIN ISO 2768-1
Linear measures:
Up to 30mm class W, otherwise class C.
According to DIN ISO 2768-2
Form and position: class L

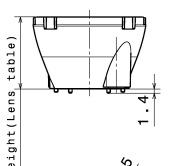
FIRST ANGLE PROJECTION:



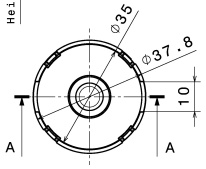
SCALE 1:1 | SIZE A3 | SHEET 1/4



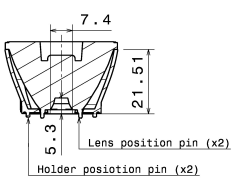

Bottom view
Scale: 2:1



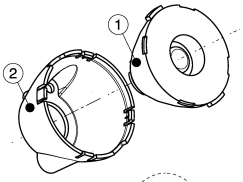

Front view
Scale: 1:1

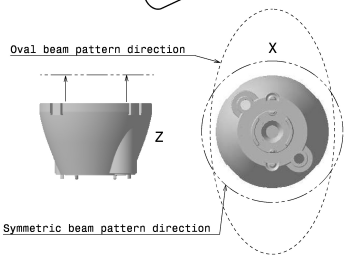



Top view
Scale: 1:1




Section view A-A
Scale: 1:1




**Lens table**

| ASSEMBLY CODE | Lens | Height |
|---|---|---|
| CN16208_GABRIELLA-MIDI-S | C16193_GABRIELLA-MIDI-S | 24.08mm |
| CN16209_GABRIELLA-MIDI-M | C16194_GABRIELLA-MIDI-M | 24.08mm |
| CN16210_GABRIELLA-MIDI-W | C16195_GABRIELLA-MIDI-W | 24.17mm |
| CN16211_GABRIELLA-MIDI-O | C16196_GABRIELLA-MIDI-O | 24.29mm |

**ASSEMBLY COMPONENTS**

| INDEX | PRODUCT | TYPE | MATERIAL | COLOUR/COATING |
|---|---|---|---|---|
| 1 | GABRIELLA-MIDI-Lens (See lens table) | LENS | PMMA | CLEAR |
| 2 | C16192_GABRIELLA-MIDI-HLD | HOLDER | PC | BLACK |

**Notes**

| |
|---|
| PCB or Heat Sink level |
| Led location see marking. |
| Ensure LED fitting, see our web site and/or 3D model for part detail. |
| |
| |

**MECHANICAL DRAWING**

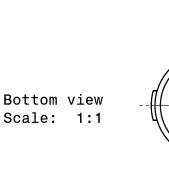
PRODUCT
GABRIELLA-MIDI

Tolerances if not otherwise shown
According to DIN ISO 2768-1
Linear measures:
Up to 30mm class W, otherwise class C.
According to DIN ISO 2768-2
Form and position: class L

FIRST ANGLE PROJECTION:

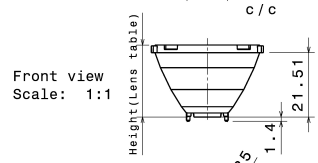


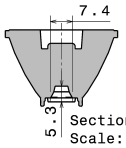
SCALE 1:1 | SIZE A3 | SHEET 3/4



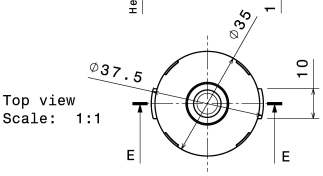


Isometric view
Scale: 1:1



Section view E-E
Scale: 1:1




| Lens table | |
|---|---|
| Lens | Height |
| C16193_GABRIELLA-MIDI-S | 24.08mm |
| C16194_GABRIELLA-MIDI-M | 24.08mm |
| C16195_GABRIELLA-MIDI-W | 24.17mm |
| C16196_GABRIELLA-MIDI-O | 24.29mm |

**COMPONENTS**

| INDEX | PRODUCT | TYPE | MATERIAL | COLOUR/COATING |
|---|---|---|---|---|
| 1 | GABRIELLA-MIDI-Lens (See assembly table) | LENS | PMMA | CLEAR |

**Notes**

| |
|---|
| PCB or Heat Sink level |
| Led location see marking. |
| Ensure LED fitting, see our web site and/or 3D model for part detail. |
| |
| |

**MECHANICAL DRAWING**

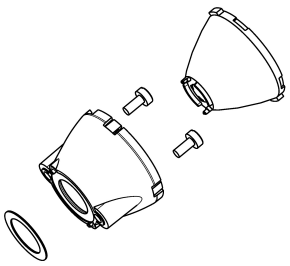
PRODUCT
GABRIELLA-MIDI

Tolerances if not otherwise shown
According to DIN ISO 2768-1
Linear measures:
Up to 30mm class W, otherwise class C.
According to DIN ISO 2768-2
Form and position: class L

FIRST ANGLE PROJECTION:



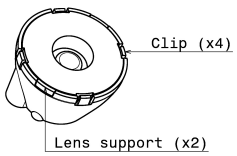
SCALE 1:1 | SIZE A3 | SHEET 2/4



1. Place holder on PCB using the holder location pins as guide elements. Holder is fixed either by with on-board PU-tape or M3 screw with max 0.6Nm torgue.

2. Place lens support features into relative holes in the holder, please note that the location pins on the lens goes through the PCB.

3.Press optic until 4 clips each locked.




**MECHANICAL DRAWING**

PRODUCT
GABRIELLA-MIDI

Tolerances if not otherwise shown
According to DIN ISO 2768-1
Linear measures:
Up to 30mm class W, otherwise class C.
According to DIN ISO 2768-2
Form and position: class L

FIRST ANGLE PROJECTION:

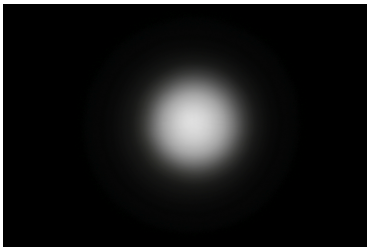


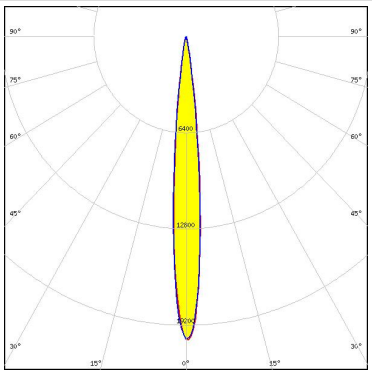
SCALE 1:1 | SIZE A3 | SHEET 4/4

## PHOTOMETRIC DATA (MEASURED):

CREE

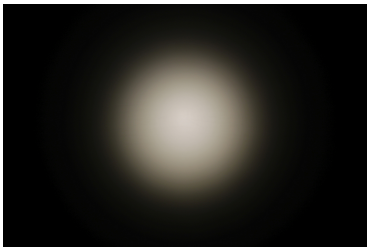
| | |
|---|---|
| LED | XHP35 HI |
| FWHM | 10.0° |
| Efficiency | 90 % |
| Peak intensity | 20.4 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |

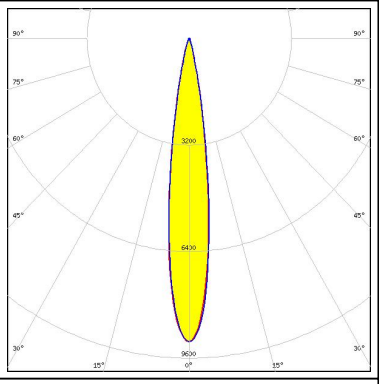




CREE

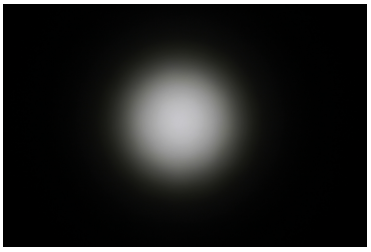
| | |
|---|---|
| LED | XHP50.2 |
| FWHM | 15.0° |
| Efficiency | 87 % |
| Peak intensity | 9.1 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |

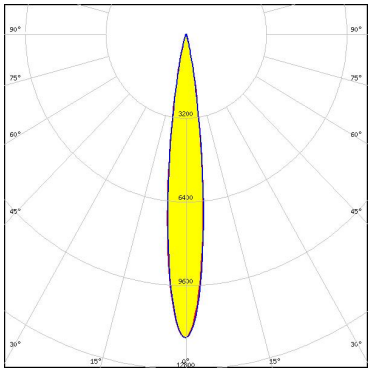




LUMILEDS

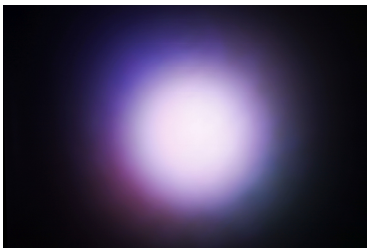
| | |
|---|---|
| LED | LUXEON 5050 Round LES |
| FWHM | 14.0° |
| Efficiency | 91 % |
| Peak intensity | 12.6 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |

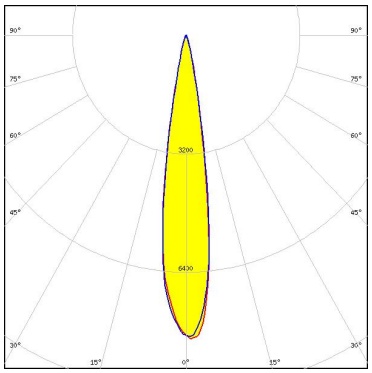




LUMILEDS

| | |
|---|---|
| LED | LUXEON C |
| FWHM | 17.0° |
| Efficiency | 85 % |
| Peak intensity | 8.2 cd/lm |
| LEDs/each optic | 1 |
| Light colour | RGBW |
| Required components: | |

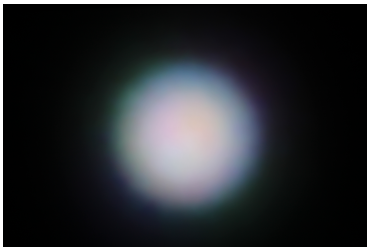


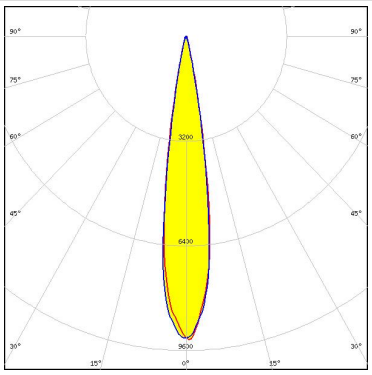


## PHOTOMETRIC DATA (MEASURED):

**LUMILEDS**

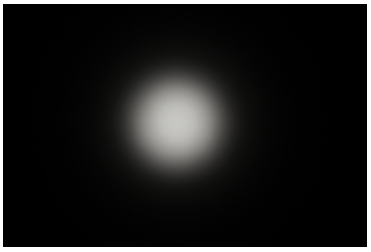
| | |
|---|---|
| LED | LUXEON CZ |
| FWHM | 16.0° |
| Efficiency | 89 % |
| Peak intensity | 9.3 cd/lm |
| LEDs/each optic | 4 |
| Light colour | RGBW |
| Required components: | |

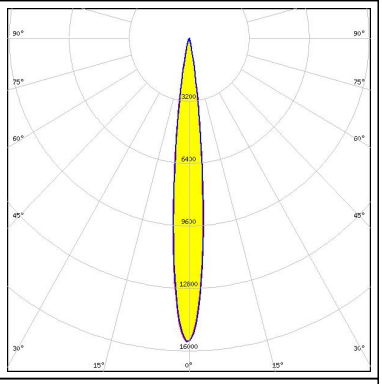




**LUMILEDS**

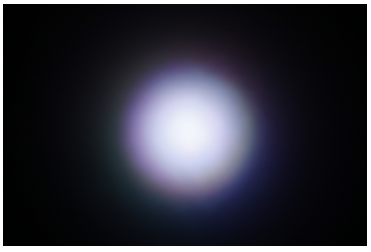
| | |
|---|---|
| LED | LUXEON V |
| FWHM | 11.0° |
| Efficiency | 89 % |
| Peak intensity | 15.5 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |

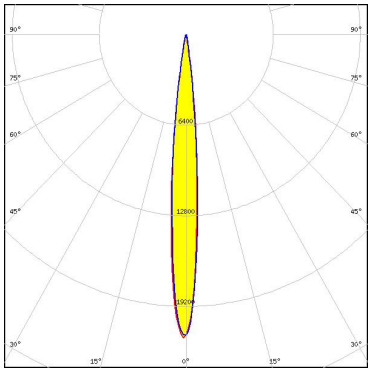




**LUMINUS**

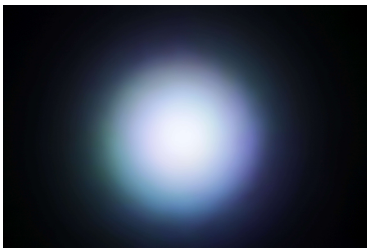
| | |
|---|---|
| LED | SBM-40-RGBW |
| FWHM | 10.0° |
| Efficiency | 89 % |
| Peak intensity | 21.5 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |

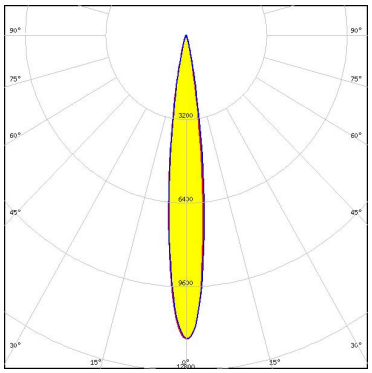




**NICHIA**

| | |
|---|---|
| LED | NCSxE17A |
| FWHM | 13.0° |
| Efficiency | 92 % |
| Peak intensity | 11.6 cd/lm |
| LEDs/each optic | 4 |
| Light colour | RGBW |
| Required components: | |

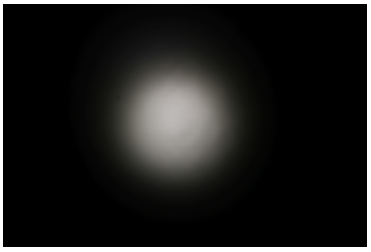


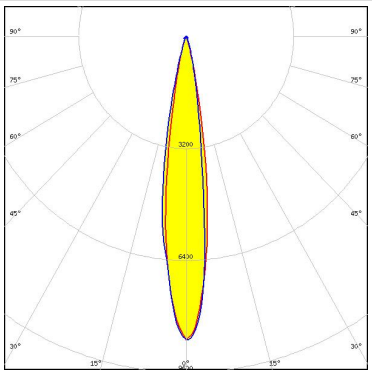


## PHOTOMETRIC DATA (MEASURED):

NICHIA

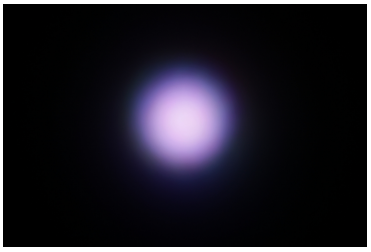
| | |
|---|---|
| LED | NVSW219F |
| FWHM | 16.0° |
| Efficiency | 89 % |
| Peak intensity | 8.7 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |

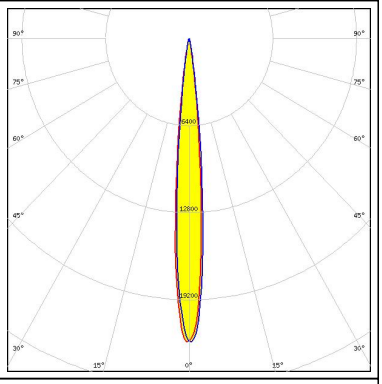




OSRAM
Opto Semiconductors

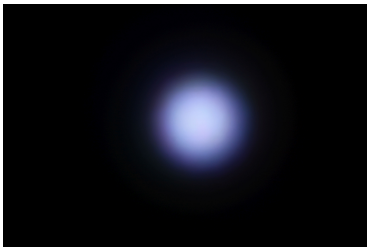
| | |
|---|---|
| LED | OSTAR Stage (S2WP) |
| FWHM | 10.0° |
| Efficiency | 91 % |
| Peak intensity | 22 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |

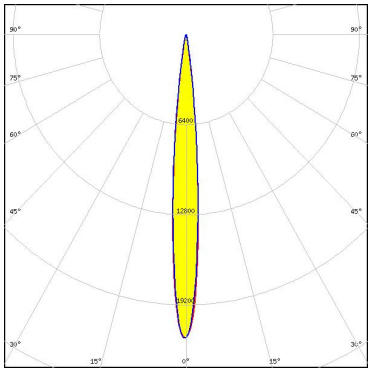




SEOUL SEMICONDUCTOR

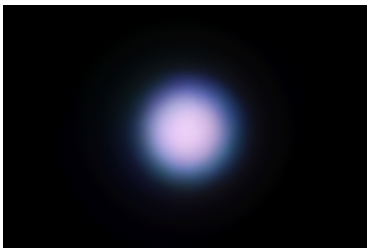
| | |
|---|---|
| LED | SPF05F0A |
| FWHM | 10.0° |
| Efficiency | 89 % |
| Peak intensity | 21.6 cd/lm |
| LEDs/each optic | 1 |
| Light colour | RGBW |
| Required components: | |

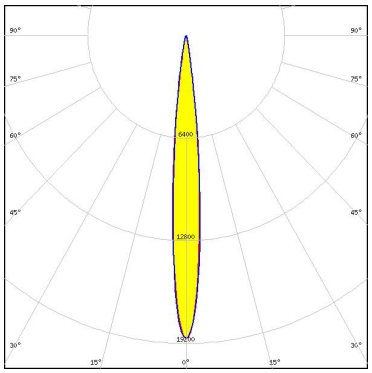




SEOUL SEMICONDUCTOR

| | |
|---|---|
| LED | SPF05F0B |
| FWHM | 11.0° |
| Efficiency | 90 % |
| Peak intensity | 18.9 cd/lm |
| LEDs/each optic | 1 |
| Light colour | RGBW |
| Required components: | |



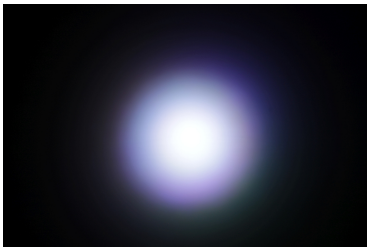


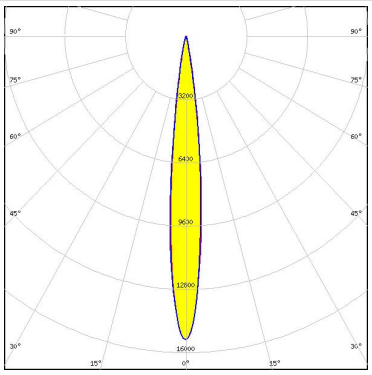
## PHOTOMETRIC DATA (MEASURED):

SEOUL SEMICONDUCTOR

| | |
|---|---|
| LED | SPF05F0C |
| FWHM | 12.0° |
| Efficiency | 89 % |
| Peak intensity | 15.4 cd/lm |
| LEDs/each optic | 1 |
| Light colour | RGBW |

Required components:

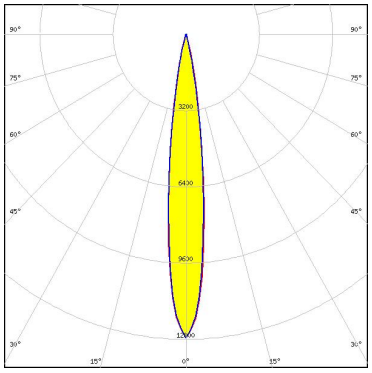




## PHOTOMETRIC DATA (SIMULATED):

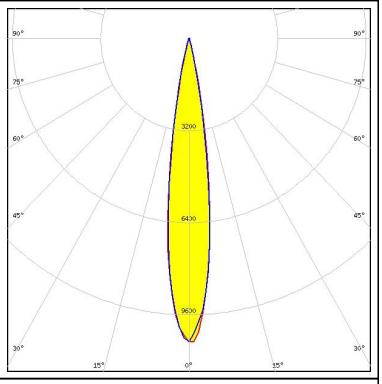
CREE

| | |
|---|---|
| LED | CLQ6A-TKW |
| FWHM | 13.7° |
| Efficiency | 94 % |
| Peak intensity | 12.7 cd/lm |
| LEDs/each optic | 1 |
| Light colour | RGBW |
| Required components: | |



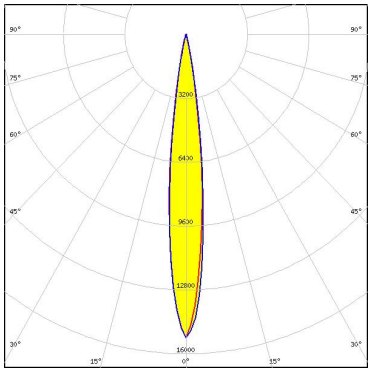
CREE

| | |
|---|---|
| LED | XHP50 |
| FWHM | 16.0° |
| Efficiency | 91 % |
| Peak intensity | 10.7 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



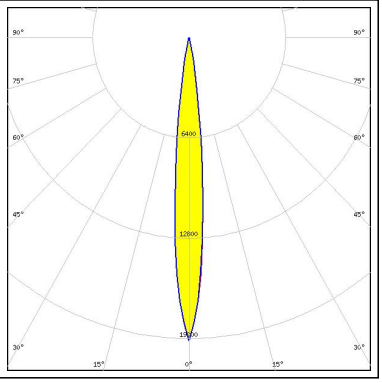
CREE

| | |
|---|---|
| LED | XM-L RGB |
| FWHM | 13.0° |
| Efficiency | 93 % |
| Peak intensity | 15.2 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



CREE

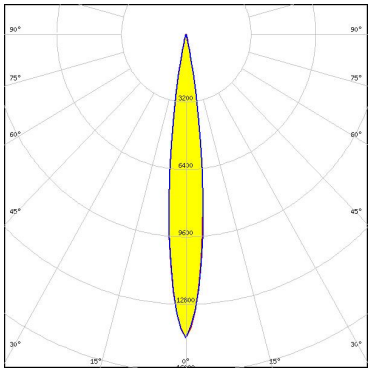
| | |
|---|---|
| LED | XP-G2 HE |
| FWHM | 11.0° |
| Efficiency | 92 % |
| Peak intensity | 19.4 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



## PHOTOMETRIC DATA (SIMULATED):

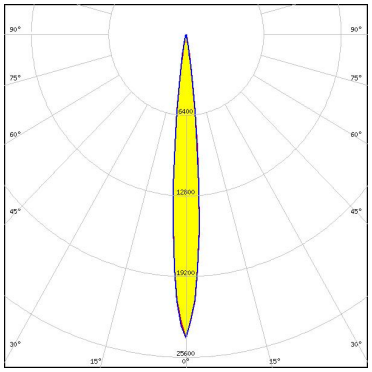
CREE

| | |
|---|---|
| LED | XQ-E HI |
| FWHM | 14.0° |
| Efficiency | 90 % |
| Peak intensity | 14.4 cd/lm |
| LEDs/each optic | 4 |
| Light colour | RGBW |
| Required components: | |



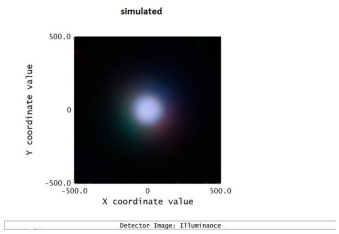
CREE

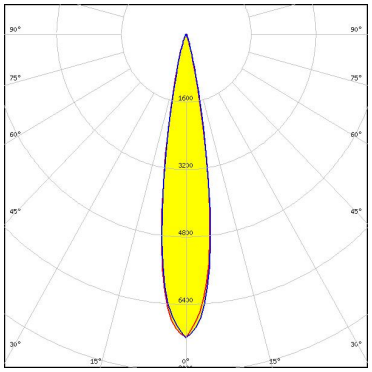
| | |
|---|---|
| LED | XT-E |
| FWHM | 10.0° |
| Efficiency | 91 % |
| Peak intensity | 24.1 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



LUMILEDS

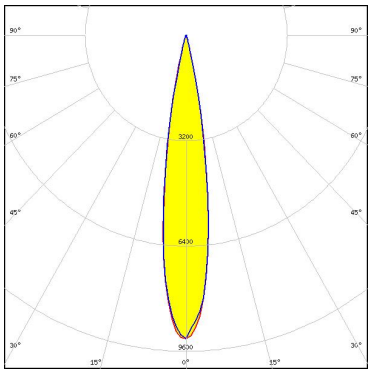
| | |
|---|---|
| LED | LUXEON C |
| FWHM | 18.0 + ° |
| Efficiency | 86 % |
| Peak intensity | 7.2 cd/lm |
| LEDs/each optic | 4 |
| Light colour | RGBW |
| Required components: | |



LUMILEDS

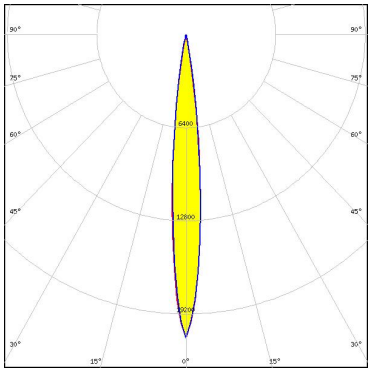
| | |
|---|---|
| LED | LUXEON M/MX |
| FWHM | 17.0° |
| Efficiency | 91 % |
| Peak intensity | 9.3 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



## PHOTOMETRIC DATA (SIMULATED):

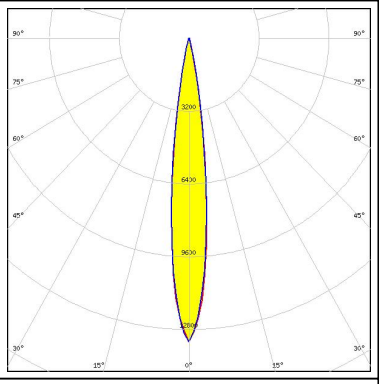
LUMILEDS

| | |
|---|---|
| LED | LUXEON Z |
| FWHM | 11.0° |
| Efficiency | 91 % |
| Peak intensity | 21 cd/lm |
| LEDs/each optic | 4 |
| Light colour | RGBW |
| Required components: | |



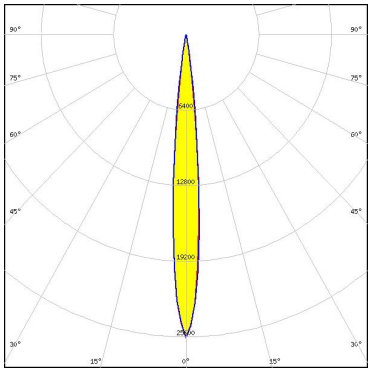
OSRAM
Opto Semiconductors

| | |
|---|---|
| LED | Duris S8 |
| FWHM | 14.0° |
| Efficiency | 92 % |
| Peak intensity | 13.5 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



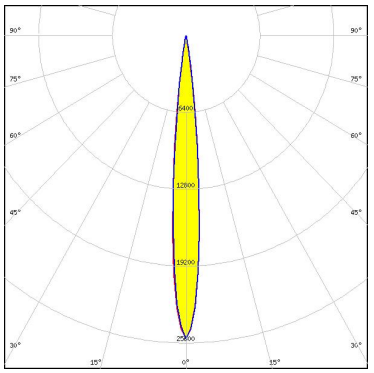
OSRAM
Opto Semiconductors

| | |
|---|---|
| LED | OSCONIQ P 3737 (2W version) |
| FWHM | 10.0° |
| Efficiency | 94 % |
| Peak intensity | 25.7 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



OSRAM
Opto Semiconductors

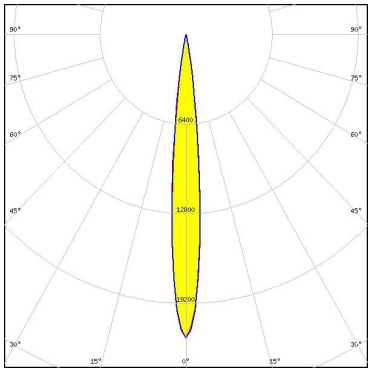
| | |
|---|---|
| LED | OSLON Square CSSRM2/CSSRM3 |
| FWHM | 10.0° |
| Efficiency | 93 % |
| Peak intensity | 25.3 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



## PHOTOMETRIC DATA (SIMULATED):

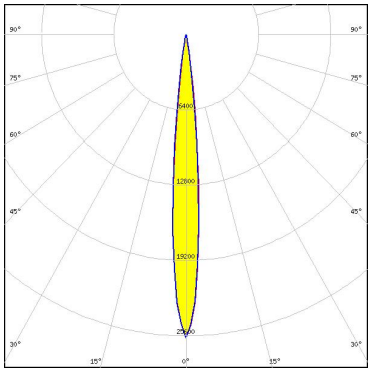
SAMSUNG

| | |
|---|---|
| LED | LH351B |
| FWHM | 11.0° |
| Efficiency | 93 % |
| Peak intensity | 21.7 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



SEOUL SEMICONDUCTOR

| | |
|---|---|
| LED | Z5M1/Z5M2 |
| FWHM | 10.0° |
| Efficiency | 93 % |
| Peak intensity | 25.8 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| 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

**Local sales and technical support**
www.ledil.com/
where_to_buy

**Shipping locations**
Salo, Finland
Hong Kong, China

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