# ANNA-40-7-S

**~15° spot beam with 7 optics**


## SPECIFICATION:

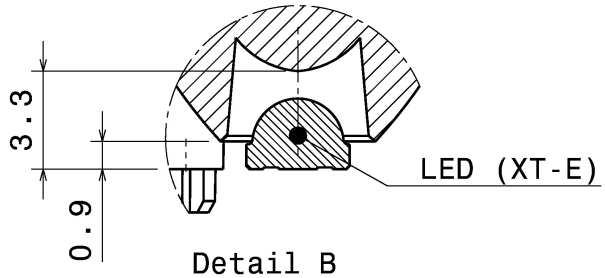
| | |
|---|---|
| Dimensions | Ø 40.0 mm |
| Height | 10.7 mm |
| Fastening | pin |
| ROHS compliant | yes |

## MATERIALS:

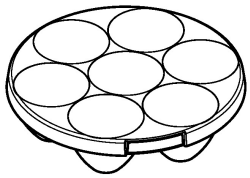
| Component | Type | Material | Colour | Finish |
|---|---|---|---|---|
| ANNA-40-7-S | Multi-lens | PMMA | clear | |

## ORDERING INFORMATION:

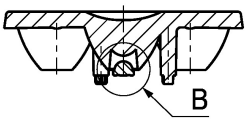
| Component | Qty in box | MOQ | MPQ | Box weight (kg) |
|---|---|---|---|---|
| C13483_ANNA-40-7-S<br>» Box size: 480 x 280 x 300 mm | 760 | 120 | 40 | 8.2 |



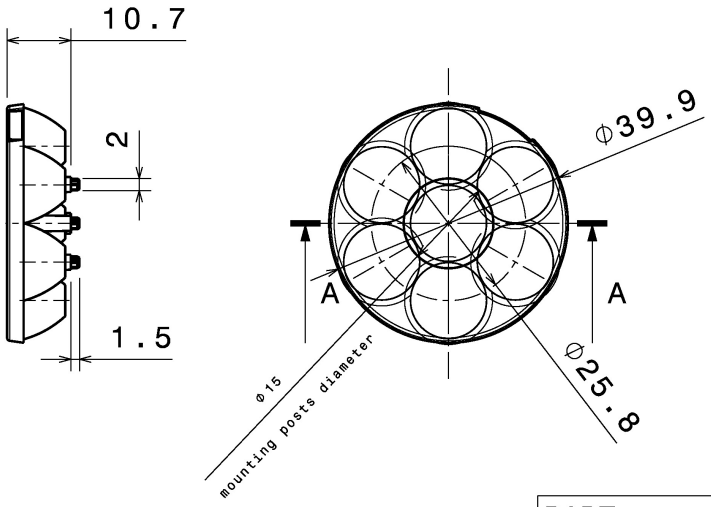

Detail B
Scale: 5:1



Isometric view
Scale: 1:1




Section view A-A
Scale: 1:1




| PART | TYPE | MATERIAL |
|---|---|---|
| ANNA-40-7-series_ | lens | PMMA |

**PRODUCTION DRAWING**

FAMILY ANNA

LEDiL

Plastic moulding general tolerances according to DIN 16901-130 and applies if not otherwise shown in the drawing. Silicone moulding general tolerances according to ISO 3302-1:2014(E)-M2 and applies if not otherwise shown in the drawing.

FIRST ANGLE PROJECTION:



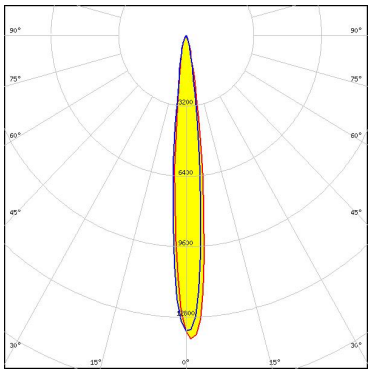
SCALE 1:1 | WEIGHT - | A4 SHEET 1/1

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

## OPTICAL RESULTS (MEASURED):

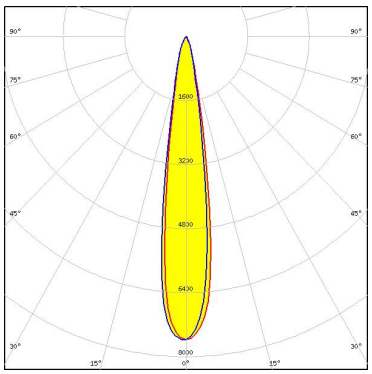
CREE LED

| | |
|---|---|
| LED | XP-E2 |
| FWHM / FWTM | 12.0° / 24.5° |
| Efficiency | 87 % |
| Peak intensity | 13.8 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



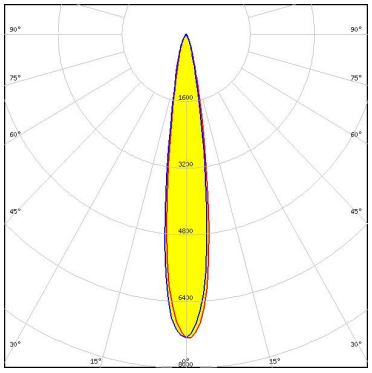
CREE LED

| | |
|---|---|
| LED | XP-G2 |
| FWHM / FWTM | 17.0° / 33.0° |
| Efficiency | 91 % |
| Peak intensity | 7.6 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



CREE LED

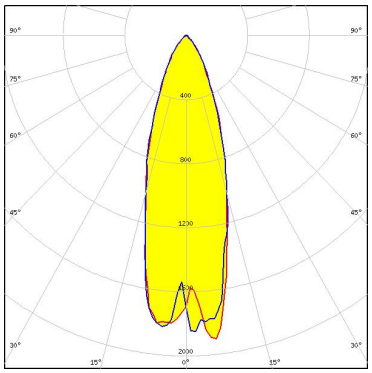
| | |
|---|---|
| LED | XT-E |
| FWHM / FWTM | 16.0° / 33.0° |
| Efficiency | 89 % |
| Peak intensity | 7.3 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



## OPTICAL RESULTS (SIMULATED):

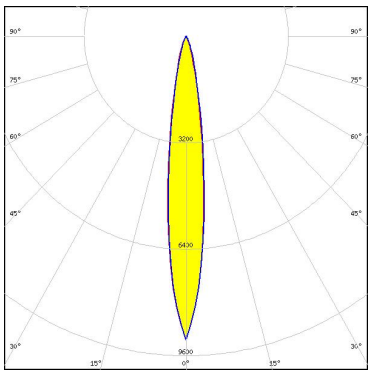
bridgelux

| | |
|---|---|
| LED | SM4 |
| FWHM / FWTM | 33.0° / 66.0° |
| Efficiency | 87 % |
| Peak intensity | 2.1 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



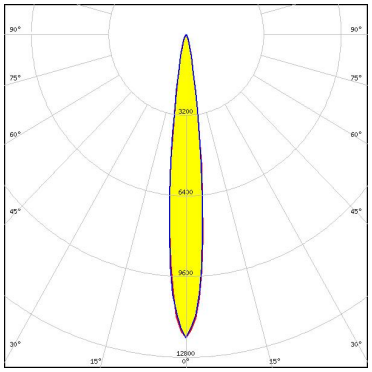
CREE LED

| | |
|---|---|
| LED | J Series 2835 |
| FWHM / FWTM | 14.0° / 32.0° |
| Efficiency | 96 % |
| Peak intensity | 9.1 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



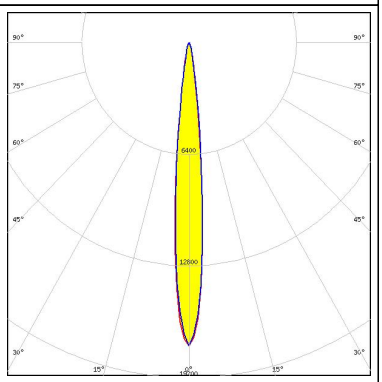
CREE LED

| | |
|---|---|
| LED | XB-D |
| FWHM / FWTM | 13.0° / 25.0° |
| Efficiency | 90 % |
| Peak intensity | 12 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



CREE LED

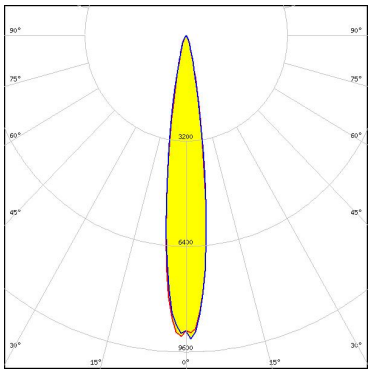
| | |
|---|---|
| LED | XP-E |
| FWHM / FWTM | 11.0° / 21.0° |
| Efficiency | 93 % |
| Peak intensity | 17.4 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



## OPTICAL RESULTS (SIMULATED):

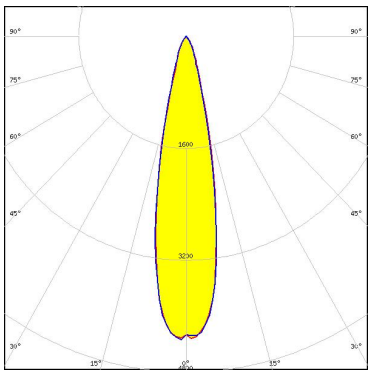
CREE LED

| | |
|---|---|
| LED | XP-G |
| FWHM / FWTM | 15.0° / 30.0° |
| Efficiency | 93 % |
| Peak intensity | 9.3 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



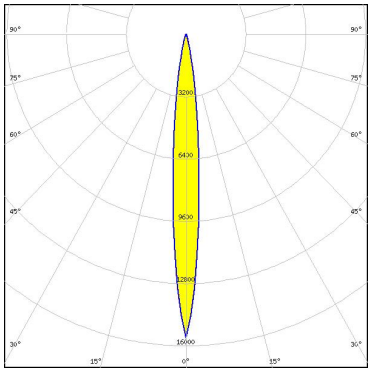
CREE LED

| | |
|---|---|
| LED | XP-L HD |
| FWHM / FWTM | 22.0° / 42.0° |
| Efficiency | 92 % |
| Peak intensity | 4.4 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



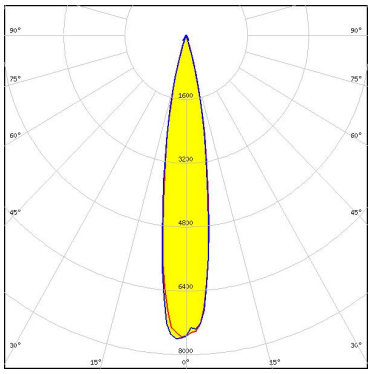
LUMILEDS

| | |
|---|---|
| LED | LUXEON HL1Z |
| FWHM / FWTM | 10.0° / 24.0° |
| Efficiency | 97 % |
| Peak intensity | 15.6 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



LUMILEDS

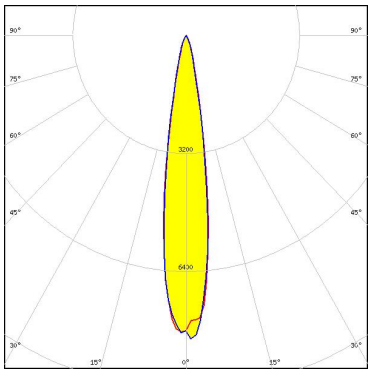
| | |
|---|---|
| LED | LUXEON PWT |
| FWHM / FWTM | 17.0° / 32.0° |
| Efficiency | 88 % |
| Peak intensity | 7.6 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



## OPTICAL RESULTS (SIMULATED):

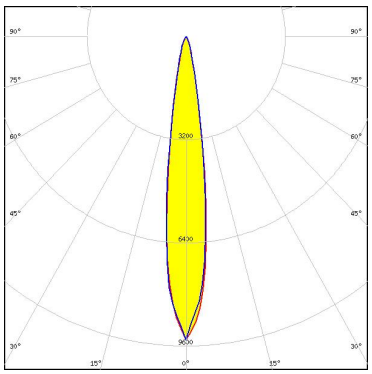
LUMILEDS

| | |
|---|---|
| LED | LUXEON T |
| FWHM / FWTM | 17.0° / 31.0° |
| Efficiency | 92 % |
| Peak intensity | 8.5 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



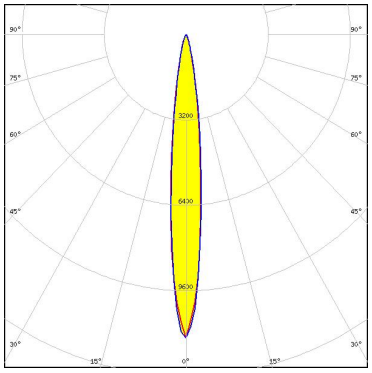
LUMILEDS

| | |
|---|---|
| LED | LUXEON TX |
| FWHM / FWTM | 15.0° / 29.0° |
| Efficiency | 93 % |
| Peak intensity | 9.4 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



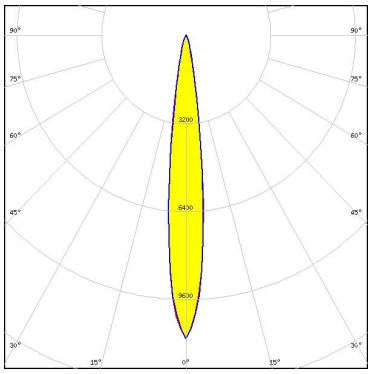
NICHIA

| | |
|---|---|
| LED | NCSxx19A |
| FWHM / FWTM | 17.0° / 30.0° |
| Efficiency | 87 % |
| Peak intensity | 7.7 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



NICHIA

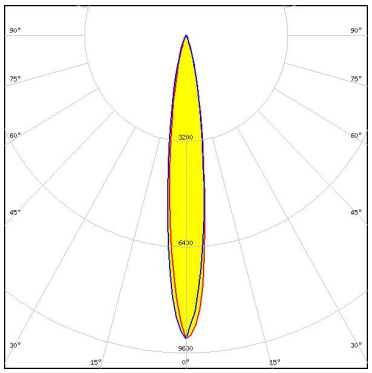
| | |
|---|---|
| LED | NCSxx19B |
| FWHM / FWTM | 14.0° / 27.0° |
| Efficiency | 95 % |
| Peak intensity | 11 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



## OPTICAL RESULTS (SIMULATED):

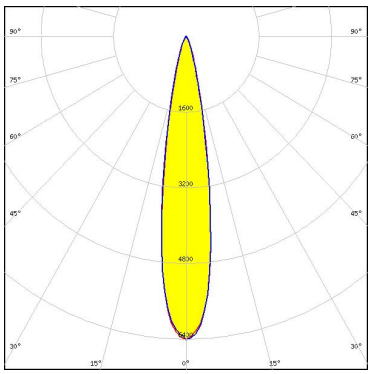
NICHIA

| | |
|---|---|
| LED | NF2x757A |
| FWHM / FWTM | 14.0° / 32.0° |
| Efficiency | 92 % |
| Peak intensity | 9.2 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



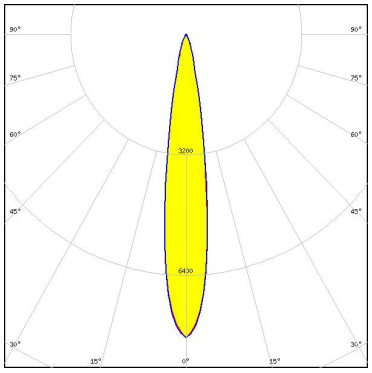
NICHIA

| | |
|---|---|
| LED | NVSxx19B/NVSxx19C |
| FWHM / FWTM | 18.0° / 35.0° |
| Efficiency | 92 % |
| Peak intensity | 6.3 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



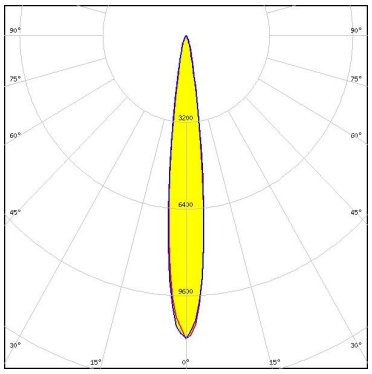
OSRAM
Opto Semiconductors

| | |
|---|---|
| LED | OSLON Square CSSRM2/CSSRM3 |
| FWHM / FWTM | 16.0° / 32.0° |
| Efficiency | 95 % |
| Peak intensity | 8.1 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



OSRAM
Opto Semiconductors

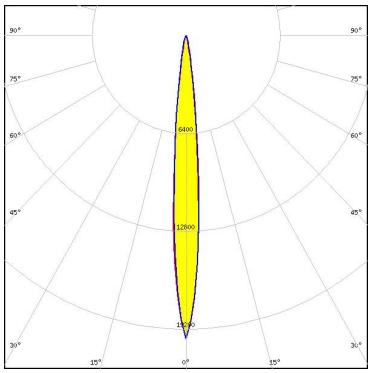
| | |
|---|---|
| LED | OSLON Square EC |
| FWHM / FWTM | 13.0° / 27.0° |
| Efficiency | 92 % |
| Peak intensity | 11.2 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



## OPTICAL RESULTS (SIMULATED):

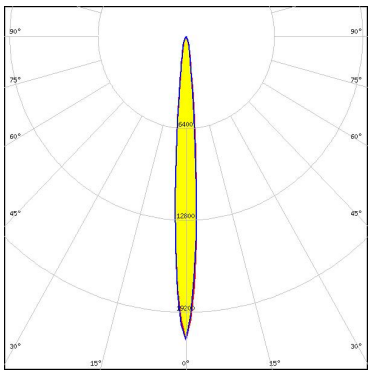
OSRAM
Opto Semiconductors

| | |
|---|---|
| LED | OSLON SSL 150 |
| FWHM / FWTM | 10.0° / 21.0° |
| Efficiency | 92 % |
| Peak intensity | 19.8 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



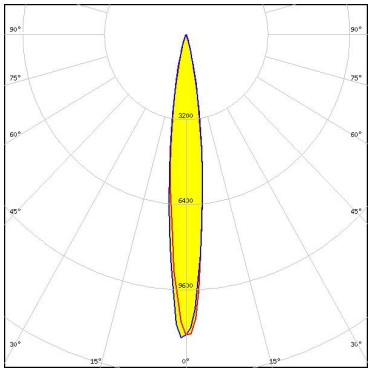
OSRAM
Opto Semiconductors

| | |
|---|---|
| LED | OSLON SSL 80 |
| FWHM / FWTM | 8.0° / 19.0° |
| Efficiency | % |
| Peak intensity | 21.1 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



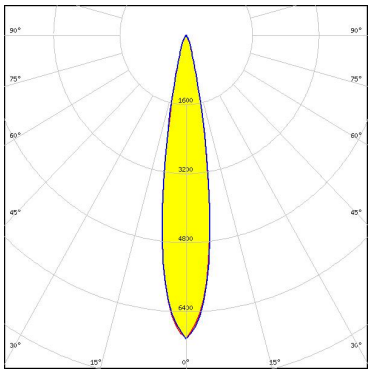
OSRAM
Opto Semiconductors

| | |
|---|---|
| LED | SFH 4715S |
| FWHM / FWTM | 13.0° / 28.0° |
| Efficiency | 90 % |
| Peak intensity | 11.7 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



SAMSUNG

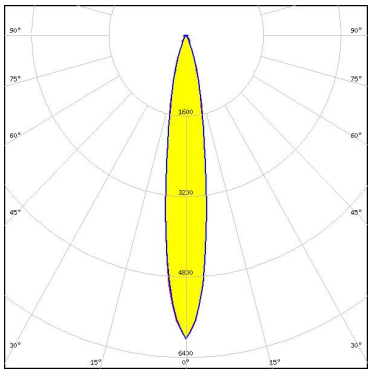
| | |
|---|---|
| LED | LH351B |
| FWHM / FWTM | 18.0° / 32.0° |
| Efficiency | 95 % |
| Peak intensity | 7 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



## OPTICAL RESULTS (SIMULATED):

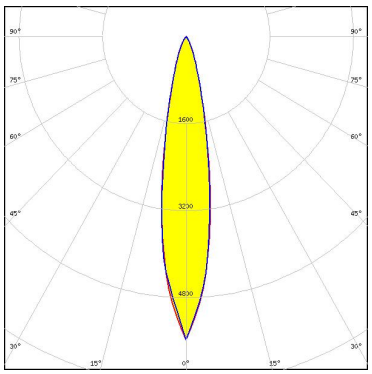
SEOUL SEMICONDUCTOR

| | |
|---|---|
| LED | Z8Y22 |
| FWHM / FWTM | 16.0° / 38.0° |
| Efficiency | 95 % |
| Peak intensity | 6 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



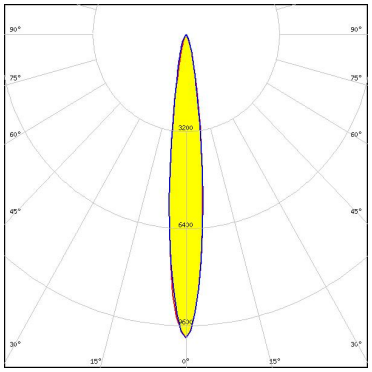
SEOUL SEMICONDUCTOR

| | |
|---|---|
| LED | Z8Y22P |
| FWHM / FWTM | 18.0° |
| Efficiency | 90 % |
| Peak intensity | 5.5 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



SHARP

| | |
|---|---|
| LED | Double Dome (GM2BB) |
| FWHM / FWTM | 13.0° / 29.0° |
| Efficiency | 89 % |
| Peak intensity | 10 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.

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