

## PRODUCT DATASHEET FN15381\_RONDA-WWW

## **RONDA-WWW**

~90° very wide beam with holder A compatible with 3rd party connectors from TE, Bender+Wirth and IDEAL

#### **TECHNICAL SPECIFICATIONS:**

| Dimensions     | Ø 69.9 mm |
|----------------|-----------|
| Height         | 14.6 mm   |
| Fastening      | socket    |
| ROHS compliant | yes 🛈     |



Colour

clear

white

Finish

#### MATERIAL SPECIFICATIONS:

Component RONDA-WWW RONDA-HLD-A

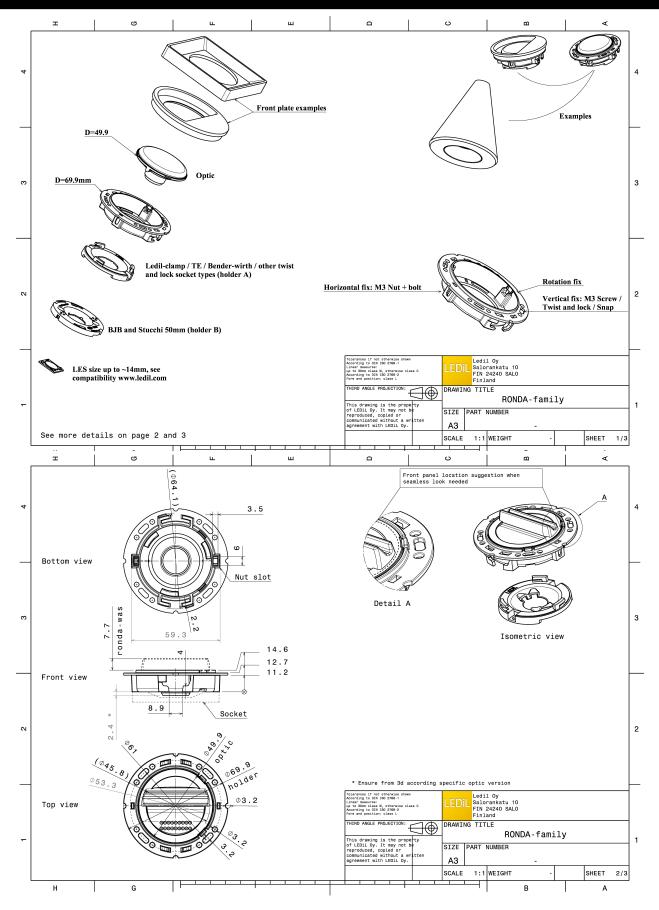
| Туре        | Material |
|-------------|----------|
| Single lens | PMMA     |
| Holder      | PC       |

#### **ORDERING INFORMATION:**

| Component         |             | Qty in box | MOQ | MPQ | Box weight (kg) |
|-------------------|-------------|------------|-----|-----|-----------------|
| FN15381_RONDA-WWW | Single lens | 420        | 120 | 30  | 0.0             |
| » Box size:       |             |            |     |     |                 |

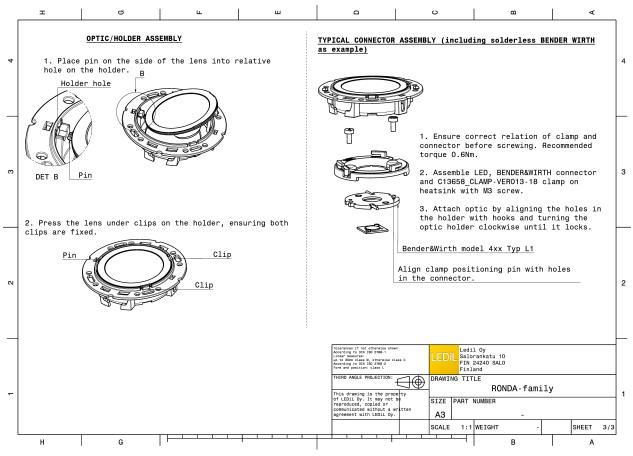
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See also our general installation guide: <u>www.ledil.com/installation\_guide</u>



| bridgelux.   |   | 90* 90*  |
|--|---|--|
| LED  | V10 Gen7  |  |
| FWHM / FWTM  | 66.0° / 108.0°  | 75   |
| Efficiency   | 87 %  |  |
| Peak intensity   | 0.7 cd/lm   |  |
| LEDs/each optic  | 1   |  |
| Light colour   | White   | 400 43°  |
| Required compone   |   |  |
| C13658_CLAMF   |   |  |
| Bender Wirth: 48   |   |  |
|  |   | 340 mg / 100 - 344   |
| bridgelux.   |   | 50° 50°  |
| LED  | V13 Gen7  |  |
| FWHM / FWTM  | 76.0° / 126.0°  | 75*  |
|  |   |  |
| Efficiency   | 82 %  | 60° 200  |
| Peak intensity   | 0.5 cd/lm   |  |
| LEDs/each optic  | 1   |  |
| Light colour   | White   |  |
| Required compone   |   |  |
| TE Connectivity:   | 2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1  |  |
|  |   |  |
|  |   | 30*  |
|  |   | 15° 0° 15°   |
| bridgelux.   |   | 90° 90° 90°  |
| bridgelux.<br>LED  | Vero SE 13  | <br>99 <sup>4</sup> 99 <sup>4</sup>  |
|  | Vero SE 13<br>78.0° / 124.0°  | 34<br>36<br>36<br>36<br>36<br>36<br>35<br>35   |
| LED<br>FWHM / FWTM   |   | 20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>2                    |
| LED<br>FWHM / FWTM<br>Efficiency   | 78.0° / 124.0°  | 137 6° 13°<br>199* 99*<br>195 200 99*  |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity   | 78.0° / 124.0°<br>88 %  |  |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic  | 78.0° / 124.0°<br>88 %<br>0.5 cd/lm   | gy         gy         gy           gy         gy         gy           gy         gy         gy     |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour  | 78.0° / 124.0°<br>88 %<br>0.5 cd/lm<br>1<br>White   |  |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone  | 78.0° / 124.0°<br>88 %<br>0.5 cd/lm<br>1<br>White<br>nts:   | 25° 6° 15°<br>29° 99°<br>29° 99°<br>29°<br>29°<br>29°<br>29°<br>29°<br>29°<br>29°<br>29°<br>29°    |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone  | 78.0° / 124.0°<br>88 %<br>0.5 cd/lm<br>1<br>White   | 25° 6° 15°<br>26° 80°<br>26° 80°<br>26° 80°  |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone  | 78.0° / 124.0°<br>88 %<br>0.5 cd/lm<br>1<br>White<br>nts:   |  |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone  | 78.0° / 124.0°<br>88 %<br>0.5 cd/lm<br>1<br>White<br>nts:   |  |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone  | 78.0° / 124.0°<br>88 %<br>0.5 cd/lm<br>1<br>White<br>nts:<br>-VEROSE-13-18  |  |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone<br>C16402_CLAMF  | 78.0° / 124.0°<br>88 %<br>0.5 cd/lm<br>1<br>White<br>nts:   | 40<br>30<br>30<br>30<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40 |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone<br>C16402_CLAMF  | 78.0° / 124.0°<br>88 %<br>0.5 cd/lm<br>1<br>White<br>nts:<br>-VEROSE-13-18  | 40<br>30<br>30<br>30<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40 |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone<br>C16402_CLAMF  | 78.0° / 124.0°<br>88 %<br>0.5 cd/lm<br>1<br>White<br>nts:<br>-VEROSE-13-18<br>VERO13  | 40<br>30<br>30<br>30<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40 |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone<br>C16402_CLAMF  | 78.0° / 124.0°<br>88 %<br>0.5 cd/lm<br>1<br>White<br>nts:<br>-VEROSE-13-18<br>VERO13<br>78.0° / 125.0°                                    | 40<br>30<br>30<br>30<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40 |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone<br>C16402_CLAMF<br>bridgeLux.<br>LED<br>FWHM / FWTM<br>Efficiency  | 78.0° / 124.0°<br>88 %<br>0.5 cd/lm<br>1<br>White<br>nts:<br>-VEROSE-13-18<br>VERO13<br>78.0° / 125.0°<br>87 %                            | 40<br>30<br>30<br>30<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40 |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone<br>C16402_CLAMF<br>Dridgelux.<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic                                     | 78.0° / 124.0°<br>88 %<br>0.5 cd/lm<br>1<br>White<br>nts:<br>P-VEROSE-13-18<br>VERO13<br>78.0° / 125.0°<br>87 %<br>0.5 cd/lm              | 40<br>30<br>30<br>30<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40 |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone<br>C16402_CLAMF<br>bridgelux.<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour                     | 78.0° / 124.0°<br>88 %<br>0.5 cd/lm<br>1<br>White<br>hts:<br>PVEROSE-13-18<br>VERO13<br>78.0° / 125.0°<br>87 %<br>0.5 cd/lm<br>1<br>White | 40<br>30<br>30<br>30<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40 |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone<br>C16402_CLAMF<br>bridgelux.<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone | 78.0° / 124.0° 88 % 0.5 cd/lm 1 White nts: -VEROSE-13-18 VERO13 78.0° / 125.0° 87 % 0.5 cd/lm 1 White nts:                                | 40<br>30<br>30<br>30<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40 |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone<br>C16402_CLAMF<br>bridgelux.<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour                     | 78.0° / 124.0° 88 % 0.5 cd/lm 1 White nts: -VEROSE-13-18 VERO13 78.0° / 125.0° 87 % 0.5 cd/lm 1 White nts:                                | 40<br>30<br>30<br>30<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40 |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone<br>C16402_CLAMF<br>bridgelux.<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone | 78.0° / 124.0° 88 % 0.5 cd/lm 1 White nts: -VEROSE-13-18 VERO13 78.0° / 125.0° 87 % 0.5 cd/lm 1 White nts:                                | 40<br>30<br>30<br>30<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40<br>40 |



| CITIZE  | 2N   | 90 <sup>4</sup> |
|---|--|-----------------|
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required component                                 | CLL03x/CLU03x<br>73.0° / 130.0°<br>82 %<br>0.5 cd/lm<br>1<br>White                     |                 |
| CITIZE  | N.   | 50° 500         |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone<br>C16791_CLAM<br>TE Connectivity | CLL03x/CLU03x<br>75.0° / 127.0°<br>87 %<br>0.5 cd/lm<br>1<br>White<br>ents:<br>P-Z45-A |                 |
| CITIZE  | N.   | 90° 90°         |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required component                                 | CLL04x/CLU04x<br>83.0° / 147.0°<br>82 %<br>0.4 cd/lm<br>1<br>White                     |                 |
| CITIZE  | 'N   | 50° 500         |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone                                   | CLU730/731<br>71.0° / 125.0°<br>84 %<br>0.5 cd/lm<br>1<br>White                        |                 |



| CREE -                       |  | 50 <sup>4</sup> 50                        |
|------------------------------|--|---|
| LED                          | CMA1840                                      |   |
| FWHM / FWTM                  | 78.0° / 129.0°                               |   |
| Efficiency                   | 86 %   |   |
| Peak intensity               | 0.5 cd/lm                                    |   |
| LEDs/each optic              | 1  |   |
| Light colour                 | White  | er la |
| Required compone             |  |   |
| C14123_CLAM                  |  |   |
|                              |  |   |
|                              |  |   |
|                              |  | 225 04 125                                |
| CREE -                       |  | 90* 90                                    |
| LED                          | CXA/B 1816 & CXA/B 1820 & CXA 1850           |   |
| FWHM / FWTM                  | 75.0° / 122.0°                               |   |
| Efficiency                   | 85 %   |   |
| Peak intensity               | 0.5 cd/lm                                    |   |
| LEDs/each optic              | 1  |   |
| Light colour                 | White  | er a                                      |
| Required compone             | ents:  |   |
|                              | : 2213401-2 + OPTIC CLIP Z50 TYPE1 2213194-1 |   |
|                              |  |   |
|                              |  | 30  |
|                              |  | 10) <u>ka</u> 10 <sup>2</sup>             |
| CREE -                       |  | 90* 90                                    |
| LED                          | CXA/B 1816 & CXA/B 1820 & CXA 1850           |   |
| FWHM / FWTM                  | 80.0° / 124.0°                               |   |
| Efficiency                   | 90 %   |   |
| Peak intensity               | 0.5 cd/lm                                    |   |
| LEDs/each optic              | 1  |   |
| Light colour                 | White  | er a                                      |
| Required compone             |  |   |
| C14123_CLAM                  | P-CXA15-18                                   |   |
|                              |  |   |
|                              |  | 30 <sup>4</sup>                           |
| ØNICHI/                      |  | 90° 90                                    |
|                              |  |   |
|                              | COB J-Type                                   |   |
| FWHM / FWTM                  | 74.0° / 132.0°<br>82 %                       |   |
| Efficiency<br>Peak intensity | 82 %<br>0.5 cd/lm                            |   |
| -                            | 0.5 ca/im<br>1                               |   |
| LEDs/each optic              | 1<br>White                                   |   |
| Light colour                 |  |   |
| Required compone             |  |   |
| IDEAL: 50-2103               | NC + 50-2100AN                               |   |
|                              |  |   |
|                              |  | 30" 30<br>15" 0° 15"                      |
|                              |  |   |



| <b>MNICHI</b>   |  | 90 <sup>*</sup> 90 |
|---|--|--------------------|
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone   | COB L-Type (LES 11)<br>74.0° / 119.0°<br>85 %<br>0.6 cd/lm<br>1<br>White   |                    |
|   |  | 127) @b. 127'      |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone   | COB L-Type (LES 11)<br>65.0° / 114.0°<br>83 %<br>0.6 cd/lm<br>1<br>White   |                    |
| OSRAM   | 1  | 50° 500            |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone<br>C16685_CLAMF                                     | PrevaLED Core G7 L15 H1<br>73.0° / 128.0°<br>79 %<br>0.5 cd/lm<br>1<br>White<br>nts:   |                    |
| OSRAM<br>Opto Semiconductors<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone<br>TE Connectivity: | Soleriq S13 19x19<br>75.0° / 123.0°<br>84 %<br>0.5 cd/lm<br>1<br>White<br>nts:<br>2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1 |                    |



| OSRAM<br>Opto Semiconductors  |  |  | 90° 90°   |
|---|--|--|---|
| LED   | Solerig S13 19x19  |  |   |
| FWHM / FWTM   | 72.0° / 125.0°   |  | 75°   |
| Efficiency  | 83 %   |  |   |
| Peak intensity  | 0.5 cd/lm  |  | 60 <sup>4</sup>   |
| LEDs/each optic   | 1  | and the second |   |
| Light colour  | White  |  | ger   |
| Required compone  |  |  |   |
|   | CT + 50-2100AN   |  | 400   |
|   |  |  |   |
|   |  |  | 300 300   |
|   |  |  | 15 00 250   |
| PHILIP  | 25   |  | 90* 90*   |
| LED   | Fortimo SLM L13 + SLM holder   |  | 25°   |
| FWHM / FWTM   | 73.0° / 124.0°   |  | $  \lambda                                  $   |
| Efficiency  | 82 %   |  | 60°   |
| Peak intensity  | 0.5 cd/lm  |  |   |
| LEDs/each optic   | 1  |  |   |
| Light colour  | White  |  | 63.4  |
| Required compone  |  |  |   |
| TE Connectivity   | : OPTIC CLIP Z50 TYPE1 2213194-1   |  |   |
|   |  |  |   |
|   |  |  | 30* 15* 0* 15* 36   |
|   |  |  |   |
| DHILI   | 25   | ALC: NOT THE OWNER.  | 90° 90'   |
| PHILIF  |  |  | 90° 90'   |
| LED   | Fortimo SLM L13 CoB  |  | 59 <sup>1</sup><br>72<br>72   |
| LED<br>FWHM / FWTM  | Fortimo SLM L13 CoB<br>78.0° / 125.0°  |  | 27<br>27<br>29  |
| LED<br>FWHM / FWTM<br>Efficiency  | Fortimo SLM L13 CoB<br>78.0° / 125.0°<br>82 %  |  | 99 <sup>4</sup> 99<br>72 <sup>4</sup> 72<br>6 <sup>4</sup> 69   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity  | Fortimo SLM L13 CoB<br>78.0° / 125.0°<br>82 %<br>0.5 cd/lm   |  | 99 <sup>4</sup> 99<br>72 <sup>5</sup> 72<br>90 <sup>4</sup> 99  |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic   | Fortimo SLM L13 CoB<br>78.0° / 125.0°<br>82 %<br>0.5 cd/Im<br>1  |  | 99 <sup>4</sup> 99<br>72 <sup>5</sup> 72<br>60 <sup>4</sup> 20<br>7 <sup>4</sup> 60   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour   | Fortimo SLM L13 CoB<br>78.0° / 125.0°<br>82 %<br>0.5 cd/lm<br>1<br>White   |  | 99 <sup>4</sup> 99<br>72 <sup>5</sup> 75<br>90 <sup>4</sup> 200<br>9 <sup>4</sup> 8   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required component   | Fortimo SLM L13 CoB<br>78.0° / 125.0°<br>82 %<br>0.5 cd/lm<br>1<br>White<br>ents:  |  | 99° 99° 99° 99° 99° 99° 99° 99° 99° 99°   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required component   | Fortimo SLM L13 CoB<br>78.0° / 125.0°<br>82 %<br>0.5 cd/lm<br>1<br>White   |  | 99 <sup>4</sup> 99<br>72 <sup>4</sup> 72<br>69 <sup>4</sup> 73<br>73<br>74<br>75<br>75<br>75<br>75<br>75<br>75<br>75<br>75<br>75<br>75<br>75<br>75<br>75  |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required component   | Fortimo SLM L13 CoB<br>78.0° / 125.0°<br>82 %<br>0.5 cd/lm<br>1<br>White<br>ents:  |  | 99 <sup>4</sup> 99<br>72 <sup>5</sup> 72<br>90 <sup>4</sup> 99<br>90 <sup></sup>  |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone<br>TE Connectivity  | Fortimo SLM L13 CoB<br>78.0° / 125.0°<br>82 %<br>0.5 cd/lm<br>1<br>White<br>ents:<br>: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1  |  |   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone<br>TE Connectivity  | Fortimo SLM L13 CoB<br>78.0° / 125.0°<br>82 %<br>0.5 cd/lm<br>1<br>White<br>ents:  |  | 90 <sup>4</sup><br>75 <sup>-</sup><br>75 <sup>-</sup><br>90 <sup>4</sup><br>90 <sup>4</sup> 9 |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone<br>TE Connectivity  | Fortimo SLM L13 CoB<br>78.0° / 125.0°<br>82 %<br>0.5 cd/lm<br>1<br>White<br>ents:<br>: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1  |  | 99 <sup>4</sup><br>75<br>75<br>75<br>75<br>75<br>75<br>75<br>75<br>75<br>75   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone<br>TE Connectivity  | Fortimo SLM L13 CoB<br>78.0° / 125.0°<br>82 %<br>0.5 cd/lm<br>1<br>White<br>ents:<br>: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1  |  |   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone<br>TE Connectivity  | Fortimo SLM L13 CoB<br>78.0° / 125.0°<br>82 %<br>0.5 cd/lm<br>1<br>White<br>ents:<br>2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1<br>S<br>Fortimo SLM L15 + SLM holder   |  |   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone<br>TE Connectivity  | Fortimo SLM L13 CoB<br>78.0° / 125.0°<br>82 %<br>0.5 cd/lm<br>1<br>White<br>ents:<br>: 2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1<br>S<br>Fortimo SLM L15 + SLM holder<br>78.0° / 133.0°   |  |   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone<br>TE Connectivity  | Fortimo SLM L13 CoB<br>78.0° / 125.0°<br>82 %<br>0.5 cd/lm<br>1<br>White<br>ents:<br>2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1<br>S<br>Fortimo SLM L15 + SLM holder<br>78.0° / 133.0°<br>80 %                                     |  |   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone<br>TE Connectivity<br>PECONNECTIVE<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour                        | Fortimo SLM L13 CoB<br>78.0° / 125.0°<br>82 %<br>0.5 cd/lm<br>1<br>White<br>ents:<br>2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1<br>S<br>Fortimo SLM L15 + SLM holder<br>78.0° / 133.0°<br>80 %<br>0.5 cd/lm<br>1<br>White          |  |   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone<br>TE Connectivity<br>PEHILLIE<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone        | Fortimo SLM L13 CoB<br>78.0° / 125.0°<br>82 %<br>0.5 cd/lm<br>1<br>White<br>ents:<br>2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1<br>S<br>Fortimo SLM L15 + SLM holder<br>78.0° / 133.0°<br>80 %<br>0.5 cd/lm<br>1<br>White<br>ents: |  |   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone<br>TE Connectivity<br>PEHILLIE<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone | Fortimo SLM L13 CoB<br>78.0° / 125.0°<br>82 %<br>0.5 cd/lm<br>1<br>White<br>ents:<br>2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1<br>S<br>Fortimo SLM L15 + SLM holder<br>78.0° / 133.0°<br>80 %<br>0.5 cd/lm<br>1<br>White          |  |   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone<br>TE Connectivity<br>PEHILLIE<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone | Fortimo SLM L13 CoB<br>78.0° / 125.0°<br>82 %<br>0.5 cd/lm<br>1<br>White<br>ents:<br>2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1<br>S<br>Fortimo SLM L15 + SLM holder<br>78.0° / 133.0°<br>80 %<br>0.5 cd/lm<br>1<br>White<br>ents: |  |   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone<br>TE Connectivity<br>PERENELIE<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone       | Fortimo SLM L13 CoB<br>78.0° / 125.0°<br>82 %<br>0.5 cd/lm<br>1<br>White<br>ents:<br>2213130-2 + OPTIC CLIP Z50 TYPE1 2213194-1<br>S<br>Fortimo SLM L15 + SLM holder<br>78.0° / 133.0°<br>80 %<br>0.5 cd/lm<br>1<br>White<br>ents: |  |   |



| SAMSL  | JNG  | 90,9  |
|--|--|---|
| LED  | LC040C   | 75*   |
| FWHM / FWTM  | 74.0° / 120.0°   |   |
| Efficiency   | 85 %   | eo: 200 es  |
| Peak intensity   | 0.6 cd/lm  |   |
| LEDs/each optic  | 1  | $\times$ $I$ $I$ $\wedge$ $\times$  |
| Light colour   | White  | er de la companya de  |
| Required componer  |  |   |
| TE Connectivity:   | 2213382-2 + OPTIC CLIP Z50 TYPE1 2213194-1   |   |
|  |  | $\times$ $\land$ $\land$ $\times$   |
|  |  | 366 100 860 100 36  |
| SEOUL  |  |   |
| SEOUL SEMICONDUCTOR  |  | 50 90 <sup>1</sup>  |
| LED  | AC Zhaga COB   | 75*   |
| FWHM / FWTM  | 78.0° / 130.0°   | $\rightarrow$   |
| Efficiency   | 83 %   | 60 00   |
| Peak intensity   | 0.5 cd/lm  |   |
| LEDs/each optic  | 1  |   |
| Light colour   | White  |   |
| Required componen  |  |   |
| Optosource: SEH  | ISMJD-A  | 400   |
|  |  |   |
|  |  | 30* 30* 30*   |
|  |  | 90°. 90   |
| LED  | MJT COB LES 14.5   |   |
| FWHM / FWTM  | 79.0° / 130.0°   | 75* 75  |
| Efficiency   | 80 %   |   |
| Peak intensity   | 0.5 cd/lm  | 60° / / / / / / / / / / / / / / / / / / /   |
|  |  |   |
|  |  |   |
| LEDs/each optic  | 1  | g- 6  |
| LEDs/each optic<br>Light colour  | 1<br>White   | e (   |
| LEDs/each optic<br>Light colour<br>Required component  | 1<br>White<br>nts:   | ø - 30 - 0  |
| LEDs/each optic<br>Light colour<br>Required component  | 1<br>White   | ¢* \$6  |
| LEDs/each optic<br>Light colour<br>Required component  | 1<br>White<br>nts:   | e   |
| LEDs/each optic<br>Light colour<br>Required componer<br>TE Connectivity:   | 1<br>White<br>nts:<br>2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1   | 90° 10° 10° 10° 10° 10° 10° 10° 10° 10° 1   |
| LEDs/each optic<br>Light colour<br>Required component  | 1<br>White<br>nts:<br>2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1<br>ING  | 97 <sup>-</sup> 30 <sup>0</sup> 50 <sup>0</sup> |
| LEDs/each optic<br>Light colour<br>Required componen<br>TE Connectivity:   | 1<br>White<br>nts:<br>2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1<br>ING  |   |
| LEDs/each optic<br>Light colour<br>Required componen<br>TE Connectivity:   | 1<br>White<br>nts:<br>2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1<br>ING  | er<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10  |
| LEDs/each optic<br>Light colour<br>Required componen<br>TE Connectivity:   | 1<br>White<br>nts:<br>2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1<br>ING<br>IONS<br>WU-M-484  |   |
| LEDs/each optic<br>Light colour<br>Required componen<br>TE Connectivity:<br>LED<br>FWHM / FWTM<br>Efficiency   | 1<br>White<br>nts:<br>2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1<br>ING<br>IONS<br>WU-M-484<br>79.0° / 130.0°  | et<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20  |
| LEDs/each optic<br>Light colour<br>Required componen<br>TE Connectivity:<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic                                      | 1<br>White<br>nts:<br>2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1<br>ING<br>IONS<br>WU-M-484<br>79.0° / 130.0°<br>82 %                                    | er<br>26<br>46<br>46<br>57<br>57<br>57<br>57<br>57<br>57<br>57<br>57<br>57<br>57  |
| LEDs/each optic<br>Light colour<br>Required componen<br>TE Connectivity:<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic                                      | 1<br>White<br>nts:<br>2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1<br>ING<br>IONS<br>WU-M-484<br>79.0° / 130.0°<br>82 %<br>0.5 cd/lm                       | er  |
| LEDs/each optic<br>Light colour<br>Required componen<br>TE Connectivity:<br>LIGHT<br>LED<br>FWHM / FWTM  | 1<br>White<br>nts:<br>2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1<br>ING<br>IONS<br>WU-M-484<br>79.0° / 130.0°<br>82 %<br>0.5 cd/lm<br>1<br>White         |   |
| LEDs/each optic<br>Light colour<br>Required componen<br>TE Connectivity:<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required componen | 1<br>White<br>nts:<br>2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1<br>ING<br>IONS<br>WU-M-484<br>79.0° / 130.0°<br>82 %<br>0.5 cd/lm<br>1<br>White         |   |
| LEDs/each optic<br>Light colour<br>Required componen<br>TE Connectivity:<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required componen | 1<br>White<br>nts:<br>2213254-2 + OPTIC CLIP Z50 TYPE1 2213194-1<br>ING<br>IONS<br>WU-M-484<br>79.0° / 130.0°<br>82 %<br>0.5 cd/lm<br>1<br>White<br>nts: |   |



| bridgelux.   |   | 84   | 90*  |
|--|---|--|--|
| LED  | V10 Gen6  |  |  |
| FWHM / FWTM  | 89.0° / 120.0 + 119.0°  | 75   | 200  |
| Efficiency   | 86 %  |  |  |
| Peak intensity   | 0.5 cd/lm   |  |  |
| LEDs/each optic  | 1   |  |  |
| Light colour   | White   | er all   | 45*  |
| Required components  |   |  |  |
| C14123_CLAMP-0   |   |  | X  |
| 0  |   |  |  |
|  |   |  | $\prec \chi$   |
|  |   | a.   | 15°  |
| bridgelux.   |   | 59*  | 90*  |
| LED  | V13 Gen7  |  |  |
| FWHM / FWTM  | 80.0° / 121.0°  | 77   |  |
| Efficiency   | 82 %  |  | $X \sim$   |
| Peak intensity   | 0.5 cd/lm   |  | - N BC.  |
| LEDs/each optic  | 1   |  |  |
| Light colour   | White   | gr -   | 45*  |
| Required components  | 6:  |  | X  |
| C13658_CLAMP-\   |   |  |  |
| Bender Wirth: 477  |   |  |  |
|  |   |  | 310  |
|  |   | 139 07   | 15*  |
|  |   |  |  |
| bridgelux.   |   | 59*  | 90*  |
| bridgelux.<br>LED  | V13 Gen7  | 90*  | 90*  |
| LED  | V13 Gen7<br>72.0° / 120.0°  | 94<br>75   | 90*  |
| LED<br>FWHM / FWTM   |   | 35   |  |
| LED<br>FWHM / FWTM<br>Efficiency   | 72.0° / 120.0°  | 55°<br>75<br>61 20   | 8°,<br>22,<br>85,  |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity   | 72.0° / 120.0°<br>86 %  | 594<br>75<br>60<br>60<br>70  |  |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic  | 72.0° / 120.0°<br>86 %<br>0.6 cd/lm   | 95*<br>75<br>60* 20<br>75  | 87<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour  | 72.0° / 120.0°<br>86 %<br>0.6 cd/lm<br>1<br>White   | 55°<br>75<br>60°<br>500<br>500   | 8°<br>8°   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic  | 72.0° / 120.0°<br>86 %<br>0.6 cd/lm<br>1<br>White<br>S:   | 50°<br>75<br>75<br>70<br>70<br>70<br>70<br>70<br>70<br>70<br>70<br>70  | 8°   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components   | 72.0° / 120.0°<br>86 %<br>0.6 cd/lm<br>1<br>White<br>S:   | 59°<br>79°<br>79°<br>70°<br>70°<br>70°<br>70°<br>70°<br>70°            | 80°<br>80°<br>80°  |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components   | 72.0° / 120.0°<br>86 %<br>0.6 cd/lm<br>1<br>White<br>S:   | 55°<br>75<br>661<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50 | 80°  |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components<br>IDEAL: 50-2103CT   | 72.0° / 120.0°<br>86 %<br>0.6 cd/lm<br>1<br>White<br>5:<br>* + 50-2100AN  |  | 13-<br>25-<br>25-<br>25-   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components<br>IDEAL: 50-2103CT   | 72.0° / 120.0°<br>86 %<br>0.6 cd/lm<br>1<br>White<br>5:<br>* + 50-2100AN  | 54<br>54<br>54<br>54<br>54<br>54<br>54<br>54<br>54<br>54               | 12°<br>25°<br>25°  |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components   | 72.0° / 120.0°<br>86 %<br>0.6 cd/lm<br>1<br>White<br>5:<br>* + 50-2100AN  |  | 90 <sup>2</sup>  |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components<br>IDEAL: 50-2103CT   | 72.0° / 120.0°<br>86 %<br>0.6 cd/lm<br>1<br>White<br>5:<br>- + 50-2100AN  |  | 82°  |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components<br>IDEAL: 50-2103C1   | 72.0° / 120.0°<br>86 %<br>0.6 cd/lm<br>1<br>White<br>5:<br>* + 50-2100AN<br>CLL02x/CLU02x (LES10)                                   |  | 12"<br>12"<br>2"<br>2"<br>2"<br>2"<br>2"   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components<br>IDEAL: 50-2103CT   | 72.0° / 120.0°<br>86 %<br>0.6 cd/lm<br>1<br>White<br>5:<br>* + 50-2100AN<br>CLL02x/CLU02x (LES10)<br>90.0° / 120.0 + 121.0°         |  | 10°  |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components<br>IDEAL: 50-2103CT<br><b>CITTIZED</b><br>LED<br>FWHM / FWTM<br>Efficiency  | 72.0° / 120.0°<br>86 %<br>0.6 cd/lm<br>1<br>White<br>5:<br>T + 50-2100AN<br>CLL02x/CLU02x (LES10)<br>90.0° / 120.0 + 121.0°<br>86 % |  | 84<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components<br>IDEAL: 50-2103CT<br>DEAL: 50-2103CT  | 72.0° / 120.0°<br>86 %<br>0.6 cd/lm<br>1<br>White<br>S:<br>* + 50-2100AN  |  | 80°  |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components<br>IDEAL: 50-2103CT<br>DEAL: 50-2103CT<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic   | 72.0° / 120.0°<br>86 %<br>0.6 cd/lm<br>1<br>White<br>S:<br>T + 50-2100AN  | 99*<br>73* 20<br>80*<br>20   | 80°  |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components<br>IDEAL: 50-2103C1<br>DEAL: 50-2103C1<br>ED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour  | 72.0° / 120.0°<br>86 %<br>0.6 cd/lm<br>1<br>White<br>S:<br>+ 50-2100AN  | 99*<br>73* 20<br>80*<br>20   | 00<br>00<br>00<br>00<br>00<br>00<br>00<br>00<br>00<br>00<br>00<br>00<br>00   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components<br>IDEAL: 50-2103C1<br><b>CITTIZED</b><br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components                  | 72.0° / 120.0°<br>86 %<br>0.6 cd/lm<br>1<br>White<br>S:<br>+ 50-2100AN  | 99*<br>73* 20<br>80*<br>20   | 81 <sup>2</sup><br>81 |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components<br>IDEAL: 50-2103CT<br><b>CITTIZED</b><br>ED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components<br>C13658_CLAMP-V | 72.0° / 120.0°<br>86 %<br>0.6 cd/lm<br>1<br>White<br>S:<br>+ 50-2100AN  | 99*<br>73* 20<br>80*<br>20   | 91<br>   |



| CITIZEN            | N                      | 8*   |
|--------------------|------------------------|--|
| LED                | CLU700/701/702         |  |
| FWHM / FWTM        | 90.0° / 97.0 + 113.0°  | 73° 5 5 5 5 5 5  |
| Efficiency         | 87 %                   |  |
| Peak intensity     | 0.5 cd/lm              |  |
| LEDs/each optic    | 1                      |  |
| Light colour       | White                  | a and we want  |
| Required component |                        | 400  |
| C13658_CLAMP-      |                        |  |
| Bender Wirth: 434  |                        |  |
|                    |                        | 50° 00 13°   |
| CITIZEN            | J                      | 20*  |
| LED                | CLU710/711             |  |
| FWHM / FWTM        | 88.0° / 118.0°         | 75   |
| Efficiency         | 87 %                   |  |
| Peak intensity     | 0.5 cd/lm              | 60*  |
| LEDs/each optic    | 1                      |  |
| Light colour       | ı<br>White             | er la                      |
| Required component |                        |  |
| C13658_CLAMP-      |                        |  |
| Bender Wirth: 470  |                        | 40   |
| Bender Wirth. 470  | Typ ET                 |  |
|                    |                        | 30 <sup>6</sup> 15 <sup>5</sup> q <sup>5</sup> 15 <sup>5</sup> |
| CREE ≑             |                        | 87   |
| LED                | CXA/B 13xx             |  |
| FWHM / FWTM        | 90.0° / 103.0 + 118.0° | 75° 100  |
| Efficiency         | 87 %                   |  |
| Peak intensity     | 0.5 cd/lm              | <sup>50°</sup> 210   |
| LEDs/each optic    | 1                      | Alma   |
| Light colour       | White                  | 2. And May   |
| Required component | s:                     |  |
| C13658_CLAMP-      | /ER013-18              | $\times$ / $\top$ / $\times$                                   |
| Bender Wirth: 448  | Typ L1                 | 70   |
|                    |                        | 20 22 07 20  |
| CREE ≑             |                        |  |
| LED                | CXA/B 15xx             |  |
| FWHM / FWTM        | 90.0° / 116.0 + 124.0° |  |
| Efficiency         | 87 %                   |  |
| Peak intensity     | 0.4 cd/lm              |  |
| LEDs/each optic    | 1                      |  |
| Light colour       | White                  |  |
| Required component |                        |  |
| C14123_CLAMP-(     |                        |  |
|                    |                        |  |
|                    |                        |  |



# CREE ≑

| LED                    | CXA/B 15xx             |  |  |  |
|------------------------|------------------------|--|--|--|
| FWHM / FWTM            | 90.0° / 116.0 + 124.0° |  |  |  |
| Efficiency             | 87 %                   |  |  |  |
| Peak intensity         | 0.4 cd/lm              |  |  |  |
| LEDs/each optic        | 1                      |  |  |  |
| Light colour           | White                  |  |  |  |
| Required components:   |                        |  |  |  |
| C13658_CLAMP-VERO13-18 |                        |  |  |  |
| Bender Wirth: 441 Typ  | ) L1                   |  |  |  |
|                        |                        |  |  |  |

## CREE ≑

| LED                      | CXA/B 1816 & CXA/B 1820 & CXA 1850 |  |
|--------------------------|------------------------------------|--|
| FWHM / FWTM              | 90.0° / 124.0°                     |  |
| Efficiency               | 87 %                               |  |
| Peak intensity           | 0.4 cd/lm                          |  |
| LEDs/each optic          | 1                                  |  |
| Light colour             | White                              |  |
| Required components:     |                                    |  |
| C13658_CLAMP-VERO13-18   |                                    |  |
| Bender Wirth: 437 Typ L1 |                                    |  |

# CREE ≑

| LED                   | CXA/B 1830 |  |
|-----------------------|------------|--|
| FWHM / FWTM           | 84.0°      |  |
| Efficiency            | 85 %       |  |
| LEDs/each optic       | 1          |  |
| Light colour          | White      |  |
| Required components:  |            |  |
| C14123_CLAMP-CXA15-18 |            |  |

#### UMILEDS

 LED
 LUXEON CoB 1202/1203

 FWHM / FWTM
 82.0° / 112.0°

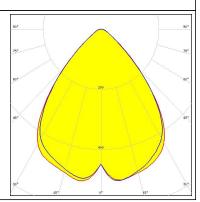
 Efficiency
 86 %

 Peak intensity
 0.5 cd/lm

 LEDs/each optic
 1

 Light colour
 White

 Required components:
 TE Connectivity: 2213382-2 + OPTIC CLIP Z50 TYPE1 2213194-1





|                        | DS                                       |   |
|------------------------|--|---|
| LED                    | LUXEON CoB 1202s                         | 92*   |
| FWHM / FWTM            | 90.0° / 110.0 + 118.0°                   | 778 100 77  |
| Efficiency             | 87 %                                     |   |
| Peak intensity         | 0.4 cd/lm                                | .60 <sup>4</sup> 60 <sup>4</sup>  |
| LEDs/each optic        | 1  |   |
| Light colour           | White                                    |   |
| Required components:   | THE STATE                                |   |
| C13658_CLAMP-VERO13-18 |  | 440   |
| Bender Wirth: 452 T    |  | $\times$  |
|                        | ν <b>μ</b> - ·                           | 900<br>90 <sup>4</sup> 25 <sup>5</sup> 0 <sup>4</sup> 25 <sup>5</sup> 30 <sup>4</sup> |
| <b>Μ</b> ΝΙCΗΙΛ        |  | 90* 30*   |
| LED                    | COB L-Type (LES 9)                       |   |
| FWHM / FWTM            | 83.0° / 112.0°                           | 73.   |
| Efficiency             | 86 %                                     |   |
| Peak intensity         | 0.5 cd/lm                                | 200 200 P   |
| LEDs/each optic        | 1  |   |
| Light colour           | White                                    | ¢.  |
| Required components:   |  |   |
| TE Connectivity: 22    | 13382-2 + OPTIC CLIP Z50 TYPE1 2213194-1 |   |
|                        |  | 20° 00 10° 10°  |
| <b>Μ</b> ΝΙCΗΙΛ        |  |   |
| LED                    | NSCxL036A                                |   |
| FWHM / FWTM            | 85.0° / 109.0 + 100.0°                   |   |
| Efficiency             | 87 %                                     |   |
| Peak intensity         | 0.5 cd/lm                                |   |
| LEDs/each optic        | 1  |   |
| Light colour           | White                                    |   |
| Required components:   |  |   |
| TE Connectivity: 22    | 13382-2 + OPTIC CLIP Z50 TYPE1 2213194-1 |   |
| OSRAM                  |  |   |
| Opto Semiconductors    | Duris S10                                |   |
| EED<br>FWHM / FWTM     | 99.0° / 128.0 + 118.0°                   |   |
| Efficiency             | 86 %                                     |   |
| Peak intensity         | 0.4 cd/lm                                |   |
| LEDs/each optic        | 1  |   |
| Light colour           | White                                    |   |
| Required components:   |  |   |
| C13658_CLAMP-VE        |  |   |
|                        |  |   |
|                        |  |   |
|                        |  |   |



## SHARP

 LED
 Mini Ze

 FWHM / FWTM
 88.0° / °

 Efficiency
 86 %

 Peak intensity
 0.5 cd/l

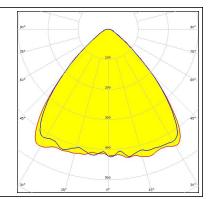
 LEDs/each optic
 1

 Light colour
 White

 Required components:
 C13658\_CLAMP-VER-V13-18

 Bender Wirth: 452 Typ L1
 1

Mini Zenigata (GW6BM) 88.0° / 116.0 + 114.0° 86 % 0.5 cd/lm 1 White RO13-18





#### **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.

Due to use of high power COB's with this product, special attention to proper thermal design is highly recommended. LEDiL has no liability for direct, indirect or consecutive damages arising from the LEDiL products being used outside of the recommended temperature range.

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