

# SURI-RS

~6° real spot beam with holder

#### **TECHNICAL SPECIFICATIONS:**

| Dimensions     | Ø 37.8 mm  |
|----------------|------------|
| Height         | 23.9 mm    |
| Fastening      | pin, screw |
| ROHS compliant | yes 🛈      |



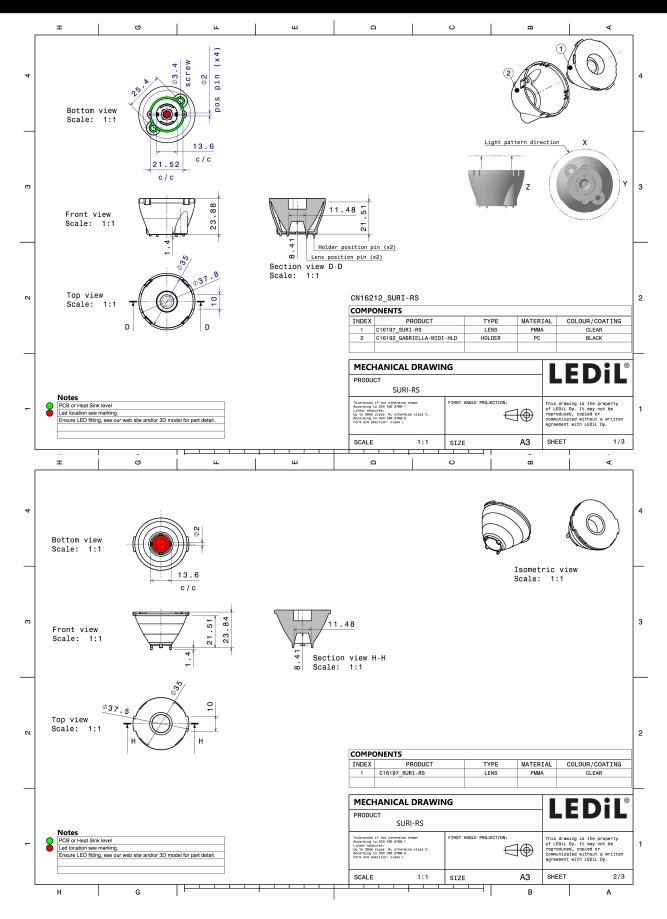
#### **MATERIAL SPECIFICATIONS:**

**Component** SURI-RS GABRIELLA-MIDI-HLD **Type** Single lens Holder

| Material | Colour | Finish |
|----------|--------|--------|
| PMMA     | clear  |        |
| PC       | black  |        |

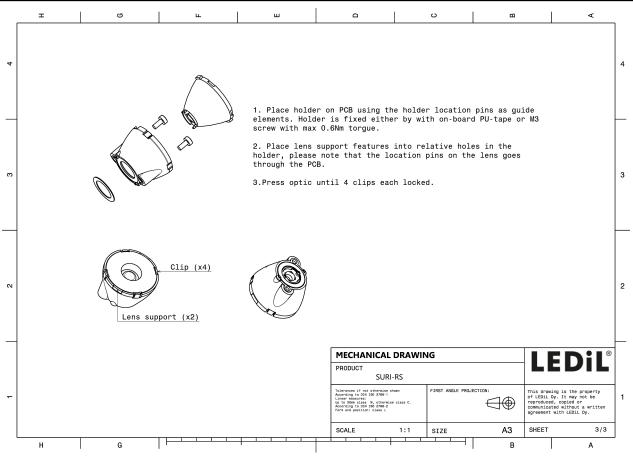
#### **ORDERING INFORMATION:**

| Component       |             | Qty in box | MOQ | MPQ | Box weight (kg) |
|-----------------|-------------|------------|-----|-----|-----------------|
| CN16212_SURI-RS | Single lens | 500        | 100 | 50  | 0.0             |
| » Box size:     |             |            |     |     |                 |



R





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



|  | 5   | 30* |
|--|---|-----|
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone        | XHP70.2<br>20.0° / 32.0°<br>88 %<br>6.6 cd/lm<br>1<br>White |     |
| CREE (LEC)<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone | XQ-E HI<br>4.0° / 8.0°<br>91 %<br>129.5 cd/lm<br>1<br>White |     |
| CREE (LEC)<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone | XT-E<br>7.0° / 12.0°<br>86 %<br>47.5 cd/lm<br>1<br>White    |     |
| ED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone         | LUXEON C<br>5.0° / 9.0°<br>86 %<br>91.5 cd/lm<br>1<br>White |     |



|   | EDC  |   |   |
|---|--|---|---|
|   |  | <u>80*</u>  | 90  |
| LED   | LUXEON CZ  | 37  |   |
| FWHM / FWTM   | 4.0° / 9.0°  |   |   |
| Efficiency  | 93 %   |   | 60'   |
| Peak intensity  | 124 cd/lm  | and the second se |   |
| LEDs/each optic   | 1  |   |   |
| Light colour  | White  | ¢7  | <   |
| Required compone  | ents:  |   |   |
|   |  |   |   |
|   |  | 2440  |   |
|   |  | 200 230 00 230  | 36.   |
|   | .EDS   | 30*   | 90°   |
| LED   | LUXEON Z   |   |   |
| FWHM / FWTM   | 4.0° / 7.0°  | 37  | 75'   |
| Efficiency  | 92 %   |   |   |
| Peak intensity  | 158 cd/lm  |   | $\langle \rangle^{\sim}$  |
| LEDs/each optic   | 1  |   |   |
| Light colour  | White  | 5.  | 45*   |
| Required compone  | ents:  | 31280   |   |
|   |  |   |   |
|   |  |   |   |
|   |  | 20 <sup>4</sup>   | 36*   |
| <u> </u>  |  | 250 40 250  |   |
|   |  |   |   |
| <b>𝔅</b> NICHI∕   |  | *** A   | 90*   |
| LED   | NVSW219F   | 200   | 90°   |
| LED<br>FWHM / FWTM  | NVSW219F<br>7.0° / 13.0°   | 200   | 30*   |
| LED<br>FWHM / FWTM<br>Efficiency  | NVSW219F<br>7.0° / 13.0°<br>92 %   | 10/2<br>25-   | 90 <sup>+</sup>   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity  | NVSW219F<br>7.0° / 13.0°<br>92 %<br>46 cd/lm   | 20 <sup>3</sup>   | 90°   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic   | NVSW219F<br>7.0° / 13.0°<br>92 %<br>46 cd/lm<br>1  |   | 50  |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour   | NVSW219F<br>7.0° / 13.0°<br>92 %<br>46 cd/lm<br>1<br>White   | 201<br>27<br>201<br>201<br>201<br>201   | 50  |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic   | NVSW219F<br>7.0° / 13.0°<br>92 %<br>46 cd/lm<br>1<br>White   | 200<br>77<br>00*<br>00*<br>00*  | 99<br>75<br>65  |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour   | NVSW219F<br>7.0° / 13.0°<br>92 %<br>46 cd/lm<br>1<br>White   |   | 90<br>75<br>60<br>65  |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour   | NVSW219F<br>7.0° / 13.0°<br>92 %<br>46 cd/lm<br>1<br>White   |   | 99<br>72<br>60<br>61  |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour   | NVSW219F<br>7.0° / 13.0°<br>92 %<br>46 cd/lm<br>1<br>White   |   | 90<br>  |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone   | NVSW219F<br>7.0° / 13.0°<br>92 %<br>46 cd/lm<br>1<br>White   |   | 99<br>97<br>97<br>97<br>97<br>97<br>97<br>97<br>97<br>97<br>97<br>97<br>97<br>9 |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone   | NVSW219F<br>7.0° / 13.0°<br>92 %<br>46 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   | NVSW219F<br>7.0° / 13.0°<br>92 %<br>46 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   | NVSW219F<br>7.0° / 13.0°<br>92 %<br>46 cd/lm<br>1<br>White<br>ents:<br>Duris S8<br>14.0° / 24.0°                                     |   | 97<br>97<br>97<br>97<br>97<br>97<br>97<br>97<br>97                              |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone<br>OSRAM<br>Opto Semiconductors<br>LED<br>FWHM / FWTM<br>Efficiency   | NVSW219F<br>7.0° / 13.0°<br>92 %<br>46 cd/lm<br>1<br>White<br>ents:<br>Duris S8<br>14.0° / 24.0°<br>90 %                             |   |   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone<br>OSERAM<br>Opto Semiconductors<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity                          | NVSW219F<br>7.0° / 13.0°<br>92 %<br>46 cd/lm<br>1<br>White<br>ents:<br>Duris S8<br>14.0° / 24.0°                                     |   |   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone<br>Opto Semiconductors<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic                 | NVSW219F<br>7.0° / 13.0°<br>92 %<br>46 cd/lm<br>1<br>White<br>ents:<br>Duris S8<br>14.0° / 24.0°<br>90 %<br>13.5 cd/lm<br>1          |   | 5   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone<br>Opto Semiconductors<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour | NVSW219F<br>7.0° / 13.0°<br>92 %<br>46 cd/lm<br>1<br>White<br>ents:<br>Duris S8<br>14.0° / 24.0°<br>90 %<br>13.5 cd/lm<br>1<br>White |   | 5   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone<br>Opto Semiconductors<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic                 | NVSW219F<br>7.0° / 13.0°<br>92 %<br>46 cd/lm<br>1<br>White<br>ents:<br>Duris S8<br>14.0° / 24.0°<br>90 %<br>13.5 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>Opto Semiconductors<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour | NVSW219F<br>7.0° / 13.0°<br>92 %<br>46 cd/lm<br>1<br>White<br>ents:<br>Duris S8<br>14.0° / 24.0°<br>90 %<br>13.5 cd/lm<br>1<br>White |   | 5   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone<br>Opto Semiconductors<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour | NVSW219F<br>7.0° / 13.0°<br>92 %<br>46 cd/lm<br>1<br>White<br>ents:<br>Duris S8<br>14.0° / 24.0°<br>90 %<br>13.5 cd/lm<br>1<br>White |   | - 25  |





| SAMS<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compon                 | LH181B<br>7.0° / 13.0°<br>91 %<br>48.2 cd/lm<br>1<br>White        |  |
|--|---|--|
| SAMS<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compon                 | LH508A<br>13.0° / 21.0°<br>91 %<br>16.9 cd/lm<br>1<br>White       |  |
| stoul semiconductor<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required compone | Z5M3<br>8.0° / 14.0°<br>90 %<br>39.3 cd/lm<br>1<br>White<br>ents: |  |



| bridgelux.<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components: | Bridgelux SMD 5050<br>12.0° / 22.0°<br>93 %<br>17.9 cd/lm<br>1<br>White | 22, 1200 12, 25,<br>6, 1200 6, 12, 25,<br>6, 1200 6, 12, 25,<br>6, 1200 6, 12, 12, 12, 12, 12, 12, 12, 12, 12, 12  |
|---|---|--|
| CREE LED<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:   | XD16<br>6.0° / 11.0°<br>87 %<br>66 cd/lm<br>1<br>White                  | 20-<br>22-<br>23-<br>24-<br>25-<br>25-<br>25-<br>25-<br>25-<br>25-<br>25-<br>25-<br>25-<br>25  |
| CREE©LED<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:   | XHP35 HI<br>8.0° / 14.0°<br>91 %<br>41.9 cd/lm<br>1<br>White            | 50 <sup>1</sup><br>75 |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:               | XHP35.2<br>12.0° / 22.0°<br>89 %<br>16.1 cd/lm<br>1<br>White            |  |



| CREE LED<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components: | XHP50.2<br>14.0° / 24.0°<br>89 %<br>13 cd/lm<br>1<br>White      | 344<br>344<br>344<br>344<br>344<br>344<br>345<br>345                             |
|---|---|--|
| CREE LED<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components: | XHP50.3 HD<br>14.0° / 22.0°<br>89 %<br>14.7 cd/lm<br>1<br>White | 5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5               |
| CREE LED<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components: | XHP50.3 HI<br>10.0° / 18.0°<br>91 %<br>23.9 cd/lm<br>1<br>White | 91<br>92<br>95<br>95<br>97<br>97<br>97<br>97<br>97<br>97<br>97<br>97<br>97<br>97 |
| CREE LED<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components: | XHP70.3<br>18.0° / 30.0°<br>88 %<br>7.9 cd/lm<br>1<br>White     | 50° 50° 50° 50° 50° 50° 50° 50° 50° 50°  |



| -   |  |   |
|---|--|---|
|   |  | 90°   |
| LED   | XP-E2  |   |
| FWHM / FWTM   | 5.0° / 10.0°   |   |
| Efficiency  | 91 %   |   |
| Peak intensity  | 85 cd/lm   |   |
| LEDs/each optic   | 1  |   |
| Light colour  | White  | 45. 2700 42.  |
| Required components:  |  |   |
|   |  |   |
|   |  |   |
|   |  | 300 300   |
|   |  | 115 <sup>3</sup> 0 <sup>6</sup> 15 <sup>5</sup>   |
|   |  |   |
| LED<br>FWHM / FWTM  | XP-G2<br>6.0° / 12.0°  | 75 7 75   |
| Efficiency  | 91 %   |   |
| Peak intensity  | 58 cd/lm   | 60*   |
| LEDs/each optic   | 1  | X / T   |
| Light colour  | White  | 5°  |
| Required components:  | wine   |   |
| Required components.  |  |   |
|   |  |   |
|   |  | $\times$  |
|   |  | 30°   |
|   |  |   |
|   |  | 90* <b>8</b>  |
|   | XP-G2 HE   | 59 <sup>4</sup> 50 <sup>4</sup>   |
|   | XP-G2 HE<br>8.0° / 16.0°   | 23.<br>23.<br>29.   |
| LED   |  | 0,4 0,0 0,4 0,4 0,4 0,4 0,4 0,4 0,4 0,4   |
| LED<br>FWHM / FWTM  | 8.0° / 16.0°   | 99°   |
| LED<br>FWHM / FWTM<br>Efficiency  | 8.0° / 16.0°<br>91 %   | 80°   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity  | 8.0° / 16.0°<br>91 %<br>38 cd/lm   | a.<br>a.<br>3.<br>3.<br>3.<br>3.<br>5.<br>5.<br>5.<br>5.<br>5.<br>5.<br>5.<br>5.<br>5.<br>5   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic   | 8.0° / 16.0°<br>91 %<br>38 cd/lm<br>1  | 20.<br>21.<br>22.<br>23.<br>23.<br>23.<br>23.<br>23.<br>24.<br>25.<br>25.<br>25.<br>25.<br>25.<br>25.<br>25.<br>25  |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour   | 8.0° / 16.0°<br>91 %<br>38 cd/lm<br>1  | 6.<br>6.<br>6.<br>7.<br>7.<br>7.<br>7.<br>7.<br>7.<br>7.<br>7.<br>7.<br>7.<br>7.<br>7.<br>7.  |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour   | 8.0° / 16.0°<br>91 %<br>38 cd/lm<br>1  | gr  |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour   | 8.0° / 16.0°<br>91 %<br>38 cd/lm<br>1  | 20, 20, 22, 24, 25, 25, 25, 25, 25, 25, 25, 25, 25, 25  |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:   | 8.0° / 16.0°<br>91 %<br>38 cd/lm<br>1  | Box     Box       Box     Box   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:   | 8.0° / 16.0°<br>91 %<br>38 cd/lm<br>1<br>White   | 51-<br>51-<br>51-<br>51-<br>51-<br>51-<br>51-<br>51-  |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:   | 8.0° / 16.0°<br>91 %<br>38 cd/lm<br>1<br>White   | 32.<br>36.<br>36.<br>36.<br>36.<br>36.<br>36.<br>36.<br>36  |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:   | 8.0° / 16.0°<br>91 %<br>38 cd/lm<br>1<br>White<br>XP-G3<br>7.7° / 14.0°                            |   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:   | 8.0° / 16.0°<br>91 %<br>38 cd/lm<br>1<br>White   |   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:   | 8.0° / 16.0°<br>91 %<br>38 cd/lm<br>1<br>White<br>XP-G3<br>7.7° / 14.0°<br>90 %                    |   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:   | 8.0° / 16.0°<br>91 %<br>38 cd/lm<br>1<br>White<br>XP-G3<br>7.7° / 14.0°<br>90 %<br>40.8 cd/lm      |   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:   | 8.0° / 16.0°<br>91 %<br>38 cd/lm<br>1<br>White<br>XP-G3<br>7.7° / 14.0°<br>90 %<br>40.8 cd/lm<br>1 |   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:<br>CREE LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour | 8.0° / 16.0°<br>91 %<br>38 cd/lm<br>1<br>White<br>XP-G3<br>7.7° / 14.0°<br>90 %<br>40.8 cd/lm<br>1 |   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:<br>CREE LED<br>EWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour | 8.0° / 16.0°<br>91 %<br>38 cd/lm<br>1<br>White<br>XP-G3<br>7.7° / 14.0°<br>90 %<br>40.8 cd/lm<br>1 |   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:<br>CREE LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour | 8.0° / 16.0°<br>91 %<br>38 cd/lm<br>1<br>White<br>XP-G3<br>7.7° / 14.0°<br>90 %<br>40.8 cd/lm<br>1 | 30, 30, 30,   61, 50, 50,   10, 10, 10,   10, 10, |



|   | XP-L HI   | 90°  |
|---|---|--|
| FWHM / FWTM   | 6.0° / 12.0°  | 25   |
| Efficiency  | 91 %  |  |
| Peak intensity  | 53 cd/lm  |  |
| LEDs/each optic   | 1   |  |
| Light colour  | White   | gr   |
| Required components:  |   |  |
|   |   |  |
|   |   |  |
|   |   | 30° 31°  |
|   |   | 90° 90° 90°  |
| LED   | XP-P  |  |
| FWHM / FWTM   | 4.0° / 10.0°  | 25   |
| Efficiency  | 94 %  |  |
| Peak intensity  | 100 cd/lm   | 60 <sup>2</sup> 60 <sup>2</sup>  |
| LEDs/each optic   | 1   |  |
| Light colour  | White   | gr 67.   |
| Required components:  |   |  |
|   |   | the second secon |
|   |   | $\times$ / / $\times$  |
|   |   | 30* 102200 30*   |
|   |   | 15° 0° 15°   |
|   |   |  |
|   |   | 50* 50*  |
|   | XQ-E HD   |  |
|   | XQ-E HD<br>5.2° / 9.5°  | 35   |
| LED   |   |  |
| LED<br>FWHM / FWTM  | 5.2° / 9.5°   |  |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic   | 5.2° / 9.5°<br>92 %<br>96.2 cd/lm<br>1  |  |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour                         | 5.2° / 9.5°<br>92 %<br>96.2 cd/lm   |  |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic   | 5.2° / 9.5°<br>92 %<br>96.2 cd/lm<br>1  |  |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour                         | 5.2° / 9.5°<br>92 %<br>96.2 cd/lm<br>1  |  |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour                         | 5.2° / 9.5°<br>92 %<br>96.2 cd/lm<br>1  |  |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour                         | 5.2° / 9.5°<br>92 %<br>96.2 cd/lm<br>1  |  |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components: | 5.2° / 9.5°<br>92 %<br>96.2 cd/lm<br>1<br>White   | 37<br>57<br>57<br>57<br>57<br>57<br>57<br>57<br>57<br>57<br>57<br>57<br>57<br>57   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components: | 5.2° / 9.5°<br>92 %<br>96.2 cd/lm<br>1<br>White   | 30,      |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components: | 5.2° / 9.5°<br>92 %<br>96.2 cd/lm<br>1<br>White   | 200<br>200<br>200<br>200<br>200<br>200<br>200<br>200   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components: | 5.2° / 9.5°<br>92 %<br>96.2 cd/lm<br>1<br>White   | 30,      |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components: | 5.2° / 9.5°<br>92 %<br>96.2 cd/lm<br>1<br>White   | 30,      |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components: | 5.2° / 9.5°<br>92 %<br>96.2 cd/lm<br>1<br>White   | by<br>by<br>by<br>by<br>by<br>by<br>by<br>by<br>by<br>by   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components: | 5.2° / 9.5°<br>92 %<br>96.2 cd/lm<br>1<br>White<br>UXEON 3030 2D (Round LES)<br>6.0° / 14.0°<br>90 %<br>51.4 cd/lm      | 30,      |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components: | 5.2° / 9.5°<br>92 %<br>96.2 cd/lm<br>1<br>White<br>UXEON 3030 2D (Round LES)<br>6.0° / 14.0°<br>90 %<br>51.4 cd/lm<br>1 |  |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components: | 5.2° / 9.5°<br>92 %<br>96.2 cd/lm<br>1<br>White<br>UXEON 3030 2D (Round LES)<br>6.0° / 14.0°<br>90 %<br>51.4 cd/lm<br>1 |  |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components: | 5.2° / 9.5°<br>92 %<br>96.2 cd/lm<br>1<br>White<br>UXEON 3030 2D (Round LES)<br>6.0° / 14.0°<br>90 %<br>51.4 cd/lm<br>1 |  |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components: | 5.2° / 9.5°<br>92 %<br>96.2 cd/lm<br>1<br>White<br>UXEON 3030 2D (Round LES)<br>6.0° / 14.0°<br>90 %<br>51.4 cd/lm<br>1 |  |



|  | S  | 200,0                     |         | 90 <sup>4</sup>  |
|--|--|---------------------------|---------|--|
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:  | LUXEON CZ<br>8.0° / 14.0°<br>92 %<br>42 cd/lm<br>1<br>Green              | 0 -<br>-200,0 I<br>-200,0 | 0 200,0 | 20-<br>22-<br>22-<br>22-<br>23-<br>23-<br>23-<br>23-<br>23-<br>23-<br>23 |
|  | S  |                           |         | 90* 92   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:  | LUXEON Rubix (white)<br>8.0° / 14.0°<br>92 %<br>41.3 cd/lm<br>1<br>Green |                           |         |  |
|  | E .  |                           |         | 15° 0° 15°   |
| CONCEPTION OF CO | LUXEON Rubix (white)<br>4.0° / 8.0°<br>90 %<br>121.9 cd/lm<br>1<br>Blue  |                           |         |  |
| <b>WICHIA</b><br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:   | NCSxE17A<br>6.0° / 10.0°<br>87 %<br>69.3 cd/lm<br>1<br>White             |                           |         | 27   |



| <b>MNICHIA</b>   |   | 90 <sup>4</sup>   |
|--|---|---|
| LED  | NVSxE21A  | 25*   |
| FWHM / FWTM  | 6.0° / 14.0°  |   |
| Efficiency   | 88 %  | 60 <sup>6</sup> 60 <sup>6</sup>   |
| Peak intensity   | 48.2 cd/lm  |   |
| LEDs/each optic  | 1   |   |
| Light colour   | White   |   |
| Required components:   |   |   |
|  |   |   |
|  |   |   |
|  |   | 36° 51200 36° 36°   |
| OSRAM<br>Opto Semiconductors   |   | 50° 50°   |
| LED  | OSLON Square CSSRM2/CSSRM3  |   |
| FWHM / FWTM  | 6.4° / 13.0°  | ino tra   |
| Efficiency   | 92 %  |   |
| Peak intensity   | 60.7 cd/lm  |   |
| LEDs/each optic  | 1   |   |
| Light colour   | White   | a   |
| Required components:   |   |   |
|  |   |   |
|  |   | $\times$ / $\vee$ $\times$  |
|  |   | 30° 6000 30°  |
|  |   | 15° 0° 15°  |
| OSRAM  |   |   |
| OSRAM<br>Opto Semiconductors   |   | 90 <sup>4</sup>   |
| Opto Semiconductors  | OSTAR Projection Compact (Kx.CSLNM1.xx)   | 50° 50° 50°   |
| Depto Semiconductors<br>LED<br>FWHM / FWTM   | 4.0° / 10.0°  |   |
| Opto Semiconductors<br>LED<br>FWHM / FWTM<br>Efficiency  | 4.0° / 10.0°<br>91 %  |   |
| opto Semiconductors<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity  | 4.0° / 10.0°<br>91 %<br>103.8 cd/lm   |   |
| opto Semiconductors<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic   | 4.0° / 10.0°<br>91 %<br>103.8 cd/lm<br>1  | 35°<br>66°<br>5009<br>60°   |
| opto Semiconductors<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour   | 4.0° / 10.0°<br>91 %<br>103.8 cd/lm   |   |
| opto Semiconductors<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic   | 4.0° / 10.0°<br>91 %<br>103.8 cd/lm<br>1  | 300   |
| opto Semiconductors<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour   | 4.0° / 10.0°<br>91 %<br>103.8 cd/lm<br>1  | 300   |
| opto Semiconductors<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour   | 4.0° / 10.0°<br>91 %<br>103.8 cd/lm<br>1  | 75°<br>56°<br>56°   |
| opto Semiconductors<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:   | 4.0° / 10.0°<br>91 %<br>103.8 cd/lm<br>1  | 300   |
| opto Semiconductors<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:   | 4.0° / 10.0°<br>91 %<br>103.8 cd/lm<br>1  | 300   |
| opto Semiconductors<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:   | 4.0° / 10.0°<br>91 %<br>103.8 cd/lm<br>1<br>White   | 25°   |
| opto Semiconductors<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:<br>OSRAM<br>Opto Semiconductors<br>LED  | 4.0° / 10.0°<br>91 %<br>103.8 cd/lm<br>1<br>White<br>OSTAR Projection Compact (Kx.CSLNM1.xx)  | 25°   |
| opto Semiconductors<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:<br>OSRAM<br>Opto Semiconductors<br>LED<br>FWHM / FWTM   | 4.0° / 10.0°<br>91 %<br>103.8 cd/lm<br>1<br>White<br>OSTAR Projection Compact (Kx.CSLNM1.xx)<br>4.0° / 8.0°                             | 30,     30,     30,       30,     30,     30, |
| opto Semiconductors<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:<br>OSRAM<br>Opto Semiconductors<br>LED<br>FWHM / FWTM<br>Efficiency   | 4.0° / 10.0°<br>91 %<br>103.8 cd/lm<br>1<br>White<br>OSTAR Projection Compact (Kx.CSLNM1.xx)<br>4.0° / 8.0°<br>90 %                     | 30,     30,     30,       30,     30,     30, |
| opto Semiconductors<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:<br>OSRAM<br>Opto Semiconductors<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity                           | 4.0° / 10.0°<br>91 %<br>103.8 cd/lm<br>1<br>White<br>OSTAR Projection Compact (Kx.CSLNM1.xx)<br>4.0° / 8.0°                             | 30,     30,     30,       30,     30,     30, |
| opto Semiconductors<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:<br>OSRAM<br>Opto Semiconductors<br>LED<br>FWHM / FWTM<br>Efficiency   | 4.0° / 10.0°<br>91 %<br>103.8 cd/lm<br>1<br>White<br>OSTAR Projection Compact (Kx.CSLNM1.xx)<br>4.0° / 8.0°<br>90 %<br>133.4 cd/lm      | 30,     30,     30,       30,     30,     30, |
| opto Semiconductors<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:<br>Opto Semiconductors<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic                 | 4.0° / 10.0°<br>91 %<br>103.8 cd/lm<br>1<br>White<br>OSTAR Projection Compact (Kx.CSLNM1.xx)<br>4.0° / 8.0°<br>90 %<br>133.4 cd/lm<br>1 | 525<br>57<br>57<br>57<br>57<br>57<br>57<br>57<br>57<br>57<br>5  |
| opto semiconductors<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:<br>Opto semiconductors<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour | 4.0° / 10.0°<br>91 %<br>103.8 cd/lm<br>1<br>White<br>OSTAR Projection Compact (Kx.CSLNM1.xx)<br>4.0° / 8.0°<br>90 %<br>133.4 cd/lm<br>1 | 525<br>57<br>57<br>57<br>57<br>57<br>57<br>57<br>57<br>57<br>5  |
| opto semiconductors<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:<br>Opto semiconductors<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour | 4.0° / 10.0°<br>91 %<br>103.8 cd/lm<br>1<br>White<br>OSTAR Projection Compact (Kx.CSLNM1.xx)<br>4.0° / 8.0°<br>90 %<br>133.4 cd/lm<br>1 | 525<br>57<br>57<br>57<br>57<br>57<br>57<br>57<br>57<br>57<br>5  |
| opto Semiconductors<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:   | 4.0° / 10.0°<br>91 %<br>103.8 cd/lm<br>1<br>White<br>OSTAR Projection Compact (Kx.CSLNM1.xx)<br>4.0° / 8.0°<br>90 %<br>133.4 cd/lm<br>1 | 525<br>57<br>57<br>57<br>57<br>57<br>57<br>57<br>57<br>57<br>5  |



| SAMSU              | NG           | 50° A         |
|--------------------|--------------|---------------|
| LED                | LM101B       | 75            |
| FWHM / FWTM        | 6.0° / 12.0° |               |
| Efficiency         | 90 %         |               |
| Peak intensity     | 69.6 cd/lm   |               |
| LEDs/each optic    | 1            |               |
| Light colour       | White        | gi ei         |
| Required component | ts:          |               |
|                    |              |               |
|                    |              |               |
|                    |              |               |
|                    |              | 10° 19%00 10° |



#### **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.

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