

# PRODUCT DATASHEET C14502\_STRADELLA-T2

# STRADELLA-T2

IESNA Type II (medium) beam applicable for European P-class standard pedestrian lighting and M-class roads

### **SPECIFICATION:**

Dimensions Height Fastening ROHS compliant 13.9 x 13.9 mm 5 mm glue, pin yes î



### **MATERIALS:**

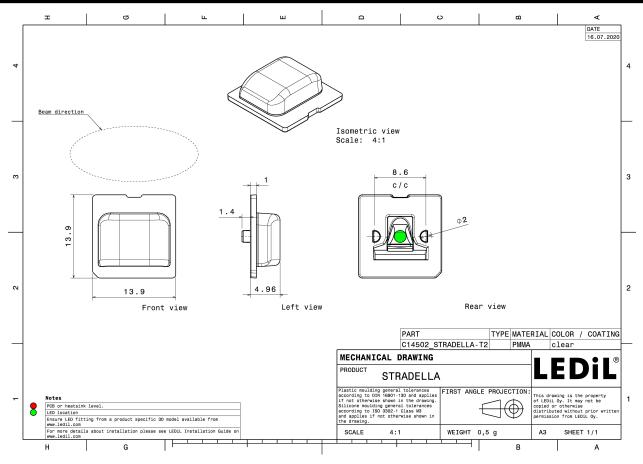
ComponentTypeMaterialColourFinishSTRADELLA-T2Single lensPMMAclear

### **ORDERING INFORMATION:**

| Component                      | Qty in box | MOQ  | MPQ  | Box weight (kg) |
|--------------------------------|------------|------|------|-----------------|
| C14502_STRADELLA-T2            | 16000      | 1000 | 1000 | 9.8             |
| » Box size: 480 x 250 x 390 mm |            |      |      |                 |



# PRODUCT DATASHEET C14502\_STRADELLA-T2



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



# **OPTICAL RESULTS (MEASURED):**

| ODEE A  |  |  |
|---|--|--|
|   |  |  |
| LED   | J Series 3030  | *  |
| FWHM / FWTM   | Asymmetric   | 73% 000  |
| Efficiency  | 97 %   |  |
| Peak intensity  | 0.8 cd/lm  | .60°   |
|   |  |  |
| LEDs/each optic   | 1<br>White   | $\times \times /   \times \times$  |
| Light colour  | White  | - 65° - 800 - 65°.   |
| Required componer   | 11S:   |  |
|   |  | XIX  |
|   |  | 1200   |
|   |  | 30° 15° 30°  |
|   |  | 50° 50°  |
| LED   | XP-G2  |  |
| FWHM / FWTM   | Asymmetric   | 73' 200 73'  |
| Efficiency  | 94 %   |  |
| Peak intensity  | 0.8 cd/lm  | 80* 400 64*  |
| LEDs/each optic   | 1  |  |
| Light colour  | White  | 5°   |
| Required componer   |  |  |
| Required componer   | ю.   |  |
|   |  | 1000   |
|   |  | 1200   |
|   |  | 30° 15° 0° 15°   |
|   |  |  |
| CKEL  |  |  |
|   | XP-C3  | 90* 90*  |
| LED   | XP-G3<br>Asymmetric  | 23 D0 27.  |
| LED<br>FWHM / FWTM  | Asymmetric   | 9/*<br>751<br>200<br>752   |
| LED<br>FWHM / FWTM<br>Efficiency  | Asymmetric<br>94 %   | 99.°<br>75°<br>60°<br>60°<br>60°   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity  | Asymmetric<br>94 %<br>0.8 cd/lm  | 997<br>23<br>60<br>60<br>60<br>60  |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic   | Asymmetric<br>94 %<br>0.8 cd/lm<br>1   | 997<br>73<br>60<br>60<br>60<br>60<br>60  |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour   | Asymmetric<br>94 %<br>0.8 cd/lm<br>1<br>White  | 90 <sup>5</sup><br>10 <sup>1</sup><br>10 |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic   | Asymmetric<br>94 %<br>0.8 cd/lm<br>1<br>White  |  |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour   | Asymmetric<br>94 %<br>0.8 cd/lm<br>1<br>White  |  |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour   | Asymmetric<br>94 %<br>0.8 cd/lm<br>1<br>White  | 20<br>20<br>20<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   | Asymmetric<br>94 %<br>0.8 cd/lm<br>1<br>White  | 50°<br>50°<br>50°<br>50°<br>50°<br>50°<br>50°<br>50°   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required component   | Asymmetric<br>94 %<br>0.8 cd/lm<br>1<br>White  | 50   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required component   | Asymmetric<br>94 %<br>0.8 cd/lm<br>1<br>White<br>nts:  | 50   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required component   | Asymmetric<br>94 %<br>0.8 cd/m<br>1<br>White<br>hts:   | 300  |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required component<br>CREE<br>LED<br>FWHM / FWTM   | Asymmetric<br>94 %<br>0.8 cd/m<br>1<br>White<br>nts:<br>XT-E<br>Asymmetric                                   | 50   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required component<br>Required component<br>ELED<br>LED<br>FWHM / FWTM<br>Efficiency   | Asymmetric<br>94 %<br>0.8 cd/lm<br>1<br>White<br>hts:<br>XT-E<br>Asymmetric<br>94 %                          | 50   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required component<br>Required component<br>ELED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity                                    | Asymmetric<br>94 %<br>0.8 cd/m<br>1<br>White<br>hts:<br>XT-E<br>Asymmetric<br>94 %<br>0.8 cd/m               | 50   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required component<br>Required component<br>Efficiency<br>Peak intensity<br>LEDs/each optic  | Asymmetric<br>94 %<br>0.8 cd/m<br>1<br>White<br>hts:<br>XT-E<br>Asymmetric<br>94 %<br>0.8 cd/m<br>1          | 50   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required component<br>Required component<br>ELED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour | Asymmetric<br>94 %<br>0.8 cd/m<br>1<br>White<br>hts:<br>XT-E<br>Asymmetric<br>94 %<br>0.8 cd/m<br>1<br>White | 50   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required component<br>Required component<br>ELED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic                 | Asymmetric<br>94 %<br>0.8 cd/m<br>1<br>White<br>hts:<br>XT-E<br>Asymmetric<br>94 %<br>0.8 cd/m<br>1<br>White | 50   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required component<br>Required component<br>ELED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour | Asymmetric<br>94 %<br>0.8 cd/m<br>1<br>White<br>hts:<br>XT-E<br>Asymmetric<br>94 %<br>0.8 cd/m<br>1<br>White | 300  |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required component<br>Required component<br>ELED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour | Asymmetric<br>94 %<br>0.8 cd/m<br>1<br>White<br>hts:<br>XT-E<br>Asymmetric<br>94 %<br>0.8 cd/m<br>1<br>White | 50   |



# **OPTICAL RESULTS (MEASURED):**

| SAMS             | UNG        | 30° 97  |
|------------------|------------|---|
| LED              | LH181B     |   |
| FWHM / FWTM      | Asymmetric | 70  |
| Efficiency       | 94 %       |   |
| Peak intensity   | 1 cd/lm    | 54 <sup>6</sup> 00 6 <sup>64</sup>                  |
| LEDs/each optic  | 1          |   |
| Light colour     | White      | er 500 er   |
| Required compone | ents:      | 1200  |
|                  |            |   |
|                  |            | 545   |
|                  |            | 250   |
|                  |            | 20° 10 <sup>0</sup> 10 <sup>0</sup> 20 <sup>4</sup> |



| -  |  |   |
|--|--|---|
|  |  | art   |
| LED  | XP-G2 HE   |   |
| FWHM / FWTM  | Asymmetric   | 75°   |
| Efficiency   | 93 %   | 200   |
| Peak intensity   | 0.5 cd/lm  | 60 <sup>4</sup> 60 <sup>4</sup>   |
| LEDs/each optic  | 1  | 400   |
| Light colour   | White  |   |
|  | Wille  | -6°*  |
| Required components:   |  |   |
|  |  |   |
|  |  | 800   |
|  |  | 30° 15° 0° 15° 30°  |
|  |  |   |
|  |  | 90* 90*   |
| LED  | XP-G3  | 73%   |
| FWHM / FWTM  | Asymmetric   |   |
| Efficiency   | 83 %   | 60* 60*   |
| Peak intensity   | 0.6 cd/lm  |   |
| LEDs/each optic  | 1  |   |
| Light colour   | White  | 45* 45*   |
| Required components:   |  |   |
| Protective plate   |  |   |
|  | , yidəə  | 200   |
|  |  |   |
|  |  | 30* <u>15</u> <sup>5</sup> 0 <sup>6</sup> 15 <sup>5</sup> 30 <sup>5</sup>   |
| <b>Ø</b> ΝΙCΗΙΛ  |  | 20 <sup>1</sup> 0 <sup>1</sup> 2 <sup>2</sup> 2 <sup>1</sup> 2 <sup>2</sup>   |
|  | NVSxx19B/NVSxx19C  | 90° 90° 90° 90° 90°   |
|  | NVSxx19B/NVSxx19C<br>Asymmetric  | 20 <sup>1</sup> <u>55<sup>1</sup> 0 25<sup>1</sup> 30<sup>1</sup></u>   |
| LED  |  | 230<br>200<br>200<br>200<br>200<br>200<br>200<br>200  |
| LED<br>FWHM / FWTM<br>Efficiency   | Asymmetric   | 20° 0° 10° 0°<br>20° 0° 10° 0°<br>20° 0°  |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity   | Asymmetric<br>94 %   |   |
| LED<br>FWHM / FWTM<br>Efficiency   | Asymmetric<br>94 %<br>0.6 cd/lm  |   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic  | Asymmetric<br>94 %<br>0.6 cd/lm<br>1   | 25 <sup>4</sup> 0 <sup>4</sup> 13 <sup>4</sup> 7<br>90 <sup>4</sup> 90 <sup>4</sup> |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour  | Asymmetric<br>94 %<br>0.6 cd/lm<br>1   | 25 <sup>4</sup> 0 <sup>4</sup> 13 <sup>4</sup> 7<br>90 <sup>4</sup> 90 <sup>4</sup> |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour  | Asymmetric<br>94 %<br>0.6 cd/lm<br>1   | 1 22 <sup>1</sup> 0 <sup>4</sup> 12 <sup>4</sup> 7<br>10 <sup>4</sup> 12 <sup>4</sup> 12 <sup>4</sup> 7<br>10 <sup>4</sup> 12  |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour  | Asymmetric<br>94 %<br>0.6 cd/lm<br>1   |   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:  | Asymmetric<br>94 %<br>0.6 cd/lm<br>1   | 25 <sup>4</sup> 0 <sup>4</sup> 13 <sup>4</sup> 7<br>90 <sup>4</sup> 90 <sup>4</sup> |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:  | Asymmetric<br>94 %<br>0.6 cd/lm<br>1   |   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:  | Asymmetric<br>94 %<br>0.6 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:  | Asymmetric<br>94 %<br>0.6 cd/lm<br>1<br>White<br>Duris S5 (2 chip)   |   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:<br>COSRAM<br>Opto Semiconductors<br>LED<br>FWHM / FWTM | Asymmetric<br>94 %<br>0.6 cd/lm<br>1<br>White<br>Duris S5 (2 chip)<br>Asymmetric                           |   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:  | Asymmetric<br>94 %<br>0.6 cd/lm<br>1<br>White<br>Duris S5 (2 chip)<br>Asymmetric<br>97 %                   |   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:  | Asymmetric<br>94 %<br>0.6 cd/lm<br>1<br>White<br>Duris S5 (2 chip)<br>Asymmetric                           |   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:  | Asymmetric<br>94 %<br>0.6 cd/lm<br>1<br>White<br>Duris S5 (2 chip)<br>Asymmetric<br>97 %<br>0.8 cd/lm<br>1 |   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:  | Asymmetric<br>94 %<br>0.6 cd/lm<br>1<br>White<br>Duris S5 (2 chip)<br>Asymmetric<br>97 %<br>0.8 cd/lm      |   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:  | Asymmetric<br>94 %<br>0.6 cd/lm<br>1<br>White<br>Duris S5 (2 chip)<br>Asymmetric<br>97 %<br>0.8 cd/lm<br>1 |   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:  | Asymmetric<br>94 %<br>0.6 cd/lm<br>1<br>White<br>Duris S5 (2 chip)<br>Asymmetric<br>97 %<br>0.8 cd/lm<br>1 |   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:  | Asymmetric<br>94 %<br>0.6 cd/lm<br>1<br>White<br>Duris S5 (2 chip)<br>Asymmetric<br>97 %<br>0.8 cd/lm<br>1 |   |



| OSRAM   |  | THY YEFT   |
|---|--|--|
| Opto Semiconductors   | Duris S5 (Single chip)   | 90* 90*  |
| FWHM / FWTM   | Asymmetric   | 73° 200 77°.   |
| Efficiency  | 96 %   | 40   |
| Peak intensity  | 0.9 cd/lm  | 60* 600 60*  |
| LEDs/each optic   | 1  | $X \times / T \times X$                              |
| Light colour  | White  |  |
| Required components:  | wille  | 45* 45*  |
| required components.  |  | 1290   |
|   |  | 1400   |
|   |  | 1000   |
|   |  | 30* 15 <sup>5</sup> 0 <sup>6</sup> 15* 30*           |
| OSRAM<br>Opto Semiconductors  |  | 50° 90°  |
| LED   | OSCONIQ C 2424   |  |
| FWHM / FWTM   | Asymmetric   | 750 200 700  |
| Efficiency  | 97 %   | 440  |
| Peak intensity  | 0.9 cd/lm  | 60* 60*  |
| LEDs/each optic   | 1  | 600  |
| Light colour  | White  | 45" 800 45"  |
| Required components:  |  |  |
|   |  |  |
|   |  | 1200   |
|   |  | 1400   |
|   |  | 30° 15° 30°  |
| OSRAM<br>Opto Semiconductors  |  |  |
|   |  | 90* 90*  |
|   | OSCONIQ C 3030   | 90* 90*  |
| LED   | OSCONIQ C 3030<br>Asymmetric   | 50* 50*<br>73* 72*                                   |
| LED<br>FWHM / FWTM  | OSCONIQ C 3030<br>Asymmetric<br>86 %   | 90* 90*<br>72* 00 72*                                |
| LED<br>FWHM / FWTM<br>Efficiency  | Asymmetric   | 92* 92*<br>12* 200<br>10* 60*                        |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity  | Asymmetric<br>86 %   | 50°<br>50°<br>60°<br>60°<br>60°<br>60°               |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic   | Asymmetric<br>86 %<br>0.5 cd/lm  |  |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity  | Asymmetric<br>86 %<br>0.5 cd/lm<br>1   | 73°<br>200<br>80°<br>460                             |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:   | Asymmetric<br>86 %<br>0.5 cd/lm<br>1<br>White  | 73°<br>200<br>80°<br>460                             |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour   | Asymmetric<br>86 %<br>0.5 cd/lm<br>1<br>White  | 73°<br>200<br>80°<br>460                             |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:   | Asymmetric<br>86 %<br>0.5 cd/lm<br>1<br>White  | 73°<br>200<br>80°<br>460                             |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:<br>Protective plate   | Asymmetric<br>86 %<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 components:<br>Protective plate   | Asymmetric<br>86 %<br>0.5 cd/lm<br>1<br>White<br>, glass   |  |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:<br>Protective plate   | Asymmetric<br>86 %<br>0.5 cd/lm<br>1<br>White<br>, glass<br>OSCONIQ C 3030   |  |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:<br>Protective plate   | Asymmetric<br>86 %<br>0.5 cd/lm<br>1<br>White<br>0.5 cd/lm<br>Conservation of the second se | 20-<br>20-<br>20-<br>20-<br>20-<br>20-<br>20-<br>20- |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:<br>Protective plate<br>OSRAM<br>Opto Semiconductors<br>LED<br>FWHM / FWTM<br>Efficiency                                       | Asymmetric<br>86 %<br>0.5 cd/lm<br>1<br>White<br>e, glass<br>OSCONIQ C 3030<br>Asymmetric<br>97 %  | 20-<br>20-<br>20-<br>20-<br>20-<br>20-<br>20-<br>20- |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:<br>Protective plate<br>Opto Semiconductors<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity                              | Asymmetric<br>86 %<br>0.5 cd/lm<br>1<br>White<br>e, glass<br>OSCONIQ C 3030<br>Asymmetric<br>97 %<br>0.7 cd/lm   |  |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:<br>Protective plate<br>Opto Semiconductors<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic           | Asymmetric<br>86 %<br>0.5 cd/lm<br>1<br>White<br>e, glass<br>OSCONIQ C 3030<br>Asymmetric<br>97 %<br>0.7 cd/lm<br>1  |  |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:<br>Protective plate   | Asymmetric<br>86 %<br>0.5 cd/lm<br>1<br>White<br>e, glass<br>OSCONIQ C 3030<br>Asymmetric<br>97 %<br>0.7 cd/lm   |  |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:<br>Protective plate<br>OSRAM<br>Optis Semiconductors<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic | Asymmetric<br>86 %<br>0.5 cd/lm<br>1<br>White<br>e, glass<br>OSCONIQ C 3030<br>Asymmetric<br>97 %<br>0.7 cd/lm<br>1  |  |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:<br>Protective plate   | Asymmetric<br>86 %<br>0.5 cd/lm<br>1<br>White<br>e, glass<br>OSCONIQ C 3030<br>Asymmetric<br>97 %<br>0.7 cd/lm<br>1  |  |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:<br>Protective plate   | Asymmetric<br>86 %<br>0.5 cd/lm<br>1<br>White<br>e, glass<br>OSCONIQ C 3030<br>Asymmetric<br>97 %<br>0.7 cd/lm<br>1  |  |



| OSRAM  |  | TXY YFI   |
|--|--|---|
| Opto Semiconductors  |  | 90* 90*   |
| LED  | OSCONIQ P 3737 (2W version)  |   |
| FWHM / FWTM  | Asymmetric   | 75 200 78   |
| Efficiency   | 94 %   |   |
| Peak intensity   | 0.7 cd/lm  |   |
| LEDs/each optic  | 1  | 600   |
| Light colour   | White  | 45*   |
| Required components:   |  | 20  |
|  |  | $\times$  |
|  |  | 1000  |
|  |  |   |
|  |  | 15 <sup>2</sup> 13 <sup>30</sup> 15 <sup>4</sup>                                |
| SAMSUN   | IG   | 90* 90*   |
| LED  | LH351B   |   |
| FWHM / FWTM  | Asymmetric   | 75%   |
| Efficiency   | 93 %   |   |
| Peak intensity   | 0.5 cd/lm  | 60* 60*   |
| LEDs/each optic  | 1  | 460   |
| Light colour   | White  | 45*   |
| Required components:   |  |   |
|  |  | $\times$ / $\times$ /   |
|  |  | 200   |
|  |  |   |
|  |  | 15 <sup>5</sup> 0 <sup>6</sup> 15 <sup>6</sup>                                  |
| SAMSUN   | IG   | 90* 90*   |
| LED  | LM301B   |   |
| FWHM / FWTM  |  |   |
|  | Asymmetric   | 75°   |
| Efficiency   | Asymmetric<br>96 %   | 725 100 775   |
| Efficiency   |  | 25 60 60  |
| Efficiency<br>Peak intensity   | 96 %   |   |
| Efficiency<br>Peak intensity<br>LEDs/each optic  | 96 %<br>0.7 cd/lm  | 60 <sup>4</sup> 00 60 <sup>4</sup>  |
| Efficiency<br>Peak intensity   | 96 %<br>0.7 cd/lm<br>1   | 60 <sup>4</sup> 00 60 <sup>4</sup>  |
| Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour  | 96 %<br>0.7 cd/lm<br>1   | 60 <sup>4</sup> 00 60 <sup>4</sup>  |
| Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour  | 96 %<br>0.7 cd/lm<br>1   | 60 <sup>4</sup> 00 60 <sup>4</sup>  |
| Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour  | 96 %<br>0.7 cd/lm<br>1   | 50 <sup>4</sup> 00 (5 <sup>4</sup>  |
| Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:  | 96 %<br>0.7 cd/lm<br>1   | 50 <sup>4</sup>   |
| Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:  | 96 %<br>0.7 cd/lm<br>1   | 50 <sup>4</sup> 00 (5 <sup>4</sup>  |
| Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:  | 96 %<br>0.7 cd/lm<br>1   | 50 <sup>4</sup> 00 60<br>50 <sup>4</sup> 00<br>50 <sup>4</sup> 00<br>300<br>300 |
| Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:  | 96 %<br>0.7 cd/m<br>1<br>White<br>SEOUL DC 3030  | 50 <sup>4</sup> 00 (5 <sup>4</sup>  |
| Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:<br>seoul semiconductor<br>LED  | 96 %<br>0.7 cd/lm<br>1<br>White  |   |
| Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:<br>stour SEMICONDUCTOR<br>LED<br>FWHM / FWTM<br>Efficiency   | 96 %<br>0.7 cd/m<br>1<br>White<br>SEOUL DC 3030<br>Asymmetric                          |   |
| Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:<br>seour semiconductor<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity   | 96 %<br>0.7 cd/m<br>1<br>White<br>SEOUL DC 3030<br>Asymmetric<br>96 %                  |   |
| Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:<br>stout stanconductor<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic                        | 96 %<br>0.7 cd/m<br>1<br>White<br>SEOUL DC 3030<br>Asymmetric<br>96 %<br>0.7 cd/m      |   |
| Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:<br>storus semiconductor<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour       | 96 %<br>0.7 cd/m<br>1<br>White<br>SEOUL DC 3030<br>Asymmetric<br>96 %<br>0.7 cd/m<br>1 |   |
| Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:<br>seous semiconporters<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic                       | 96 %<br>0.7 cd/m<br>1<br>White<br>SEOUL DC 3030<br>Asymmetric<br>96 %<br>0.7 cd/m<br>1 |   |
| Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:<br>scourses<br>scourses<br>Exercises<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour | 96 %<br>0.7 cd/m<br>1<br>White<br>SEOUL DC 3030<br>Asymmetric<br>96 %<br>0.7 cd/m<br>1 |   |
| Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:<br>seous semiconoucror<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour        | 96 %<br>0.7 cd/m<br>1<br>White<br>SEOUL DC 3030<br>Asymmetric<br>96 %<br>0.7 cd/m<br>1 |   |



| ·  |                                      |  |
|--|--------------------------------------|--|
| SEOUL SEMICONDUCTOR  |                                      | 90* 90*                                  |
| LED  | Z5M1/Z5M2                            |  |
| FWHM / FWTM  | Asymmetric                           | 73° 000 73°                              |
| Efficiency   | 94 %                                 |  |
| Peak intensity   | 0.7 cd/lm                            | 100°                                     |
| LEDs/each optic  | 1                                    | 600                                      |
| Light colour   | White                                | 40°                                      |
| Required components:   |                                      | 200                                      |
|  |                                      | 1000                                     |
|  |                                      | $\times$                                 |
|  |                                      | 30* 1230 30*                             |
| 1  |                                      |  |
|  |                                      | 152 00 150                               |
| SEQUE  |                                      | 90° 97                                   |
| SEOUL SEMICONDUCTOR  | Z5M4                                 |  |
| SEOUL SEMICONDUCTOR  |                                      | 20 20 20 20 20 20 20 20 20 20 20 20 20 2 |
| seoul semiconductor<br>LED   | Z5M4<br>Asymmetric<br>96 %           |  |
| seoul semiconductor<br>LED<br>FWHM / FWTM  | Asymmetric                           | P:                                       |
| seoul semiconductor<br>LED<br>FWHM / FWTM<br>Efficiency  | Asymmetric<br>96 %                   |  |
| seoul semiconductor<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity                                    | Asymmetric<br>96 %<br>0.6 cd/lm      |  |
| seoul semiconductor<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic                 | Asymmetric<br>96 %<br>0.6 cd/lm<br>1 |  |
| seoul semiconductor<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour | Asymmetric<br>96 %<br>0.6 cd/lm<br>1 |  |
| seoul semiconductor<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour | Asymmetric<br>96 %<br>0.6 cd/lm<br>1 | 50° 50° 50° 50° 50° 50° 50° 50° 50° 50°  |
| seoul semiconductor<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour | Asymmetric<br>96 %<br>0.6 cd/lm<br>1 |  |



#### **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:

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