

PRODUCT DATASHEET C16926_STRADA-2X2-LM1

STRADA-2X2-LM1

Excellent longitudinal luminance uniformity for EN13201 M-class where road width is >= the pole height.

SPECIFICATION:

Dimensions Height Fastening ROHS compliant 50.0 x 50.0 mm 7.1 mm pin, screw yes ()



Component STRADA-2X2-LM1

| Туре |
|------------|
| Multi-lens |



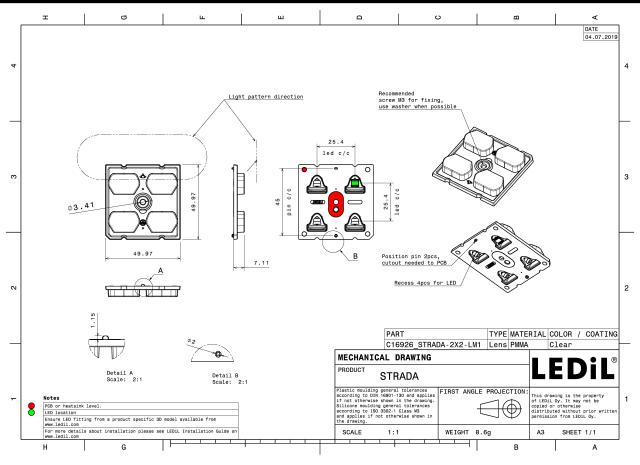
| Material | Colour | Finish |
|----------|--------|--------|
| PMMA | clear | |
| | | |

ORDERING INFORMATION:

| Component | Qty in box | MOQ | MPQ | Box weight (kg) |
|--------------------------------|------------|-----|-----|-----------------|
| C16926_STRADA-2X2-LM1 | 800 | 160 | 160 | 7.7 |
| » Box size: 480 x 280 x 300 mm | | | | |



PRODUCT DATASHEET C16926_STRADA-2X2-LM1



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



OPTICAL RESULTS (MEASURED):

| LED | J Series 5050 Round LES | |
|-----------------------------------|-------------------------|---------------------------------|
| FWHM / FWTM | Asymmetric | 75° (100 75° |
| Efficiency | 96 % | 200 |
| Peak intensity | 0.6 cd/lm | 60* 60* 60* |
| LEDs/each optic | 1 | |
| Light colour | White | 5° 7 8° |
| Required componer | | 50 |
| | | 600 |
| | | 700 |
| | | 000 |
| | | 30° 13° 30° |
| CREE ≑ | | THAT AND |
| LEDS | VD C2 | 90* 90* |
| | XP-G3 | 25* 200 75* |
| FWHM / FWTM | Asymmetric 89 % | |
| Efficiency Peak intensity | 89 % 0.8 cd/lm | 60 ⁴ 60 ⁴ |
| LEDs/each optic | 1 | |
| Light colour | White | 400 |
| Required componer | | et et |
| C17580_STRAD | | |
| | | 600 |
| | | X The X |
| | | 30° 15° 30° |
| | | |
| | | 90* 90* |
| | XP-G3 | 25° 100 75° |
| FWHM / FWTM | Asymmetric 78 % | |
| Efficiency | 78 % 0.8 cd/lm | 50 ⁴ 60 ⁴ |
| Peak intensity LEDs/each optic | 1 | |
| Light colour | White | 5° 400 5° |
| Required componer | | 45' 45' |
| C17677_STRAD | | 500 |
| | | 600 |
| | | |
| | | 30° 15 ⁵ 0° 15° 30° |
| CREE ≑ | | |
| LEDS | | 90* 90* |
| LED | XP-G3 | 75° |
| FWHM / FWTM | Asymmetric | |
| Efficiency | 97 % | 60° 60°. |
| Peak intensity | 0.9 cd/lm | 400 |
| LEDs/each optic | 1 Milita | |
| Light colour | White | 65* 632 |
| Required componer | lið. | |
| | | |
| | | |
| | | 30° 15° 30° |
| | | |



OPTICAL RESULTS (MEASURED):

| | .EDS | 90* |
|--|---|---|
| LED | LUXEON 5050 Round LES | 7 200 |
| FWHM / FWTM | Asymmetric | |
| Efficiency | 96 % | 200 |
| Peak intensity | 0.6 cd/lm | |
| LEDs/each optic | 1 | |
| Light colour | White | 45* |
| Required compone | ents: | 500 |
| | | 000 |
| | | |
| | | 30* |
| | | 13 ² <u>Ø</u> ₂ 15 ⁴ |
| MST Your solu | tions | 90* 5 |
| LED | RecLED 122x50mm 1900lm 730 2x4 Opt G1 | |
| FWHM / FWTM | Asymmetric | |
| Efficiency | 97 % | 50* |
| Peak intensity | 1 cd/lm | |
| LEDs/each optic | 1 | |
| Light colour | White | .e5* 000 0 |
| Required compone | ents: | |
| | | \times \times \times |
| | | 1000 |
| | | 30* |
| OSDAM | | 13* 0* 13* |
| OSRAM Opto Semiconductors | | 90* |
| LED | Duris S8 | |
| FWHM / FWTM | Asymmetric | |
| | | |
| Efficiency | 97 % | 504 |
| Efficiency Peak intensity | 0.5 cd/lm | |
| Efficiency Peak intensity LEDs/each optic | 0.5 cd/lm 1 | 6)* 00 |
| Efficiency Peak intensity LEDs/each optic Light colour | 0.5 cd/lm 1 White | 55× 400 |
| Efficiency Peak intensity LEDs/each optic Light colour Required compone | 0.5 cd/lm 1 White | 60° |
| Efficiency Peak intensity LEDs/each optic Light colour | 0.5 cd/lm 1 White | 65° |
| Efficiency Peak intensity LEDs/each optic Light colour | 0.5 cd/lm 1 White | 65 |
| Efficiency Peak intensity LEDs/each optic Light colour | 0.5 cd/lm 1 White | |
| Efficiency Peak intensity LEDs/each optic Light colour Required compone | 0.5 cd/lm 1 White | |
| Efficiency Peak intensity LEDs/each optic Light colour Required compone | 0.5 cd/lm 1 White ents: | |
| Efficiency Peak intensity LEDs/each optic Light colour Required compone | 0.5 cd/lm 1 White ents: OSLON Square CSSRM2/CSSRM3 | 80° |
| Efficiency Peak intensity LEDs/each optic Light colour Required compone | 0.5 cd/lm 1 White ents: OSLON Square CSSRM2/CSSRM3 Asymmetric | |
| Efficiency Peak intensity LEDs/each optic Light colour Required compone OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency | 0.5 cd/lm 1 White ents: OSLON Square CSSRM2/CSSRM3 Asymmetric 95 % | 80° |
| Efficiency Peak intensity LEDs/each optic Light colour Required compone OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity | 0.5 cd/lm 1 White ents: OSLON Square CSSRM2/CSSRM3 Asymmetric 95 % 1 cd/lm | |
| Efficiency Peak intensity LEDs/each optic Light colour Required compone Optic Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic | 0.5 cd/lm 1 White ents: OSLON Square CSSRM2/CSSRM3 Asymmetric 95 % 1 cd/lm 1 | |
| Efficiency Peak intensity LEDs/each optic Light colour Required compone OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | 0.5 cd/lm 1 White ents: OSLON Square CSSRM2/CSSRM3 Asymmetric 95 % 1 cd/lm 1 White | |
| Efficiency Peak intensity LEDs/each optic Light colour Required compone Optic Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic | 0.5 cd/lm 1 White ents: OSLON Square CSSRM2/CSSRM3 Asymmetric 95 % 1 cd/lm 1 White | |
| Efficiency Peak intensity LEDs/each optic Light colour Required compone OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | 0.5 cd/lm 1 White ents: OSLON Square CSSRM2/CSSRM3 Asymmetric 95 % 1 cd/lm 1 White | |
| Efficiency Peak intensity LEDs/each optic Light colour Required compone OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | 0.5 cd/lm 1 White ents: OSLON Square CSSRM2/CSSRM3 Asymmetric 95 % 1 cd/lm 1 White | |



OPTICAL RESULTS (MEASURED):

| OSRAM Opto Semiconductors | | 90° 90° |
|---------------------------------|---------------------------------|------------------------------------|
| LED | OSLON Square CSSRM2/CSSRM3 | |
| FWHM / FWTM | Asymmetric | 73° |
| Efficiency | 95 % | |
| Peak intensity | 1 cd/lm | 50 ⁴ 40 60 |
| LEDs/each optic | 1 | |
| Light colour | White | 45* 45 |
| Required compone | nts: | 800 |
| | | |
| | | 1000 |
| | | 30* <u>1200</u> (v* 30* |
| PHILIP | | |
| | | 90* 90* |
| LED | Fortimo FastFlex LED 2x8 DA G4+ | 732 732 |
| FWHM / FWTM | Asymmetric | 200 |
| Efficiency | 97 % 0.8 cd/m | 60° 60° |
| Peak intensity | | 400 |
| LEDs/each optic Light colour | 1 White | |
| Required component | | . 45* |
| Required component | 1.5. | |
| | | |
| | | |
| | | 30° 15° 30° |
| PHILIP | S | 90* 90* |
| LED | Fortimo FastFlex LED 2x8 DA G5 | |
| FWHM / FWTM | Asymmetric | 75° |
| Efficiency | 97 % | |
| Peak intensity | 1 cd/lm | .60 ⁴ 60 ⁴ |
| LEDs/each optic | 1 | |
| Light colour | White | 65* 600 65* |
| Required compone | nts: | \times / \times |
| | | 800 |
| | | \times |
| | | 30* 2000 30* |
| 0.0.0.0 | | <u>113</u> 00 137 |
| SAMSU | ING | 90* 90* |
| LED | LH351D | 4 |
| FWHM / FWTM | Asymmetric | 100 %* |
| Efficiency | 95 % | an 200 |
| Peak intensity | 0.7 cd/lm | |
| LEDs/each optic | 1 | $X \times / \square X \times$ |
| Light colour | White | 45° 400 63° |
| Required component | nts: | 500 |
| | | |
| 1 | | 000 |
| | | |
| | | 30° <u>13</u> 5 0° <u>13</u> ° 30° |



| bridgelux. | | 90° 90° |
|--|---|--|
| LED | Bridgelux SMD 5050 | 5 |
| FWHM / FWTM | Asymmetric | 75° |
| Efficiency | 82 % | |
| Peak intensity | 0.4 cd/lm | 50* 200 60* |
| LEDs/each optic | 1 | |
| | u White | 30 |
| Light colour | White | 6° 6° |
| Required components: | | 400 |
| Protective plate | e, glass | |
| | | |
| | | 30* 23 ³ 000 30* |
| | | 90° 99° |
| LED | J Series 5050 Round LES | |
| FWHM / FWTM | Asymmetric | 73* |
| Efficiency | 84 % | |
| Peak intensity | 0.5 cd/lm | 60* 60* |
| LEDs/each optic | 1 | |
| Light colour | White | 45* 400 45* |
| Required components: | | X X |
| | | 200 |
| Protective plate | e, glass | |
| | | |
| | | 30* 15° 700 15° 30* |
| | | |
| | | 90 ⁴ 90 ⁴ |
| CREE ÷ LEDs | J Series 5050B 6V K Class | 80 |
| LEDS | J Series 5050B 6V K Class Asymmetric | 99 ¹ 170 210 |
| LED | J Series 5050B 6V K Class Asymmetric 95 % | 200 000 000 000 000 000 000 000 000 000 |
| LEDs LED FWHM / FWTM Efficiency | Asymmetric | |
| LEDs LED FWHM / FWTM Efficiency Peak intensity | Asymmetric 95 % | |
| LEDs EWHM / FWTM Efficiency Peak intensity LEDs/each optic | Asymmetric 95 % 0.5 cd/lm 1 | |
| LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 95 % 0.5 cd/lm | |
| LEDs EWHM / FWTM Efficiency Peak intensity LEDs/each optic | Asymmetric 95 % 0.5 cd/lm 1 | |
| LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 95 % 0.5 cd/lm 1 | |
| LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 95 % 0.5 cd/lm 1 | |
| LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 95 % 0.5 cd/lm 1 | |
| LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 95 % 0.5 cd/lm 1 | |
| LEDs EWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: | Asymmetric 95 % 0.5 cd/lm 1 | |
| LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE | Asymmetric 95 % 0.5 cd/lm 1 White | |
| LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE | Asymmetric 95 % 0.5 cd/lm 1 White J Series 5050B 6V K Class | 500 500 500 500 500 500 500 500 |
| LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE LED FWHM / FWTM Efficiency | Asymmetric 95 % 0.5 cd/lm 1 White J Series 5050B 6V K Class Asymmetric 82 % | 500 500 500 500 500 500 500 500 |
| LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE LED FWHM / FWTM Efficiency Peak intensity | Asymmetric 95 % 0.5 cd/lm 1 White J Series 5050B 6V K Class Asymmetric | |
| LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic | Asymmetric 95 % 0.5 cd/lm 1 White J Series 5050B 6V K Class Asymmetric 82 % 0.4 cd/lm 1 | |
| LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREECS LED FWHM / FWTM Efficiency Peak intensity | Asymmetric 95 % 0.5 cd/lm 1 White J Series 5050B 6V K Class Asymmetric 82 % 0.4 cd/lm | |
| LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: | Asymmetric 95 % 0.5 cd/lm 1 White J Series 5050B 6V K Class Asymmetric 82 % 0.4 cd/lm 1 White | |
| LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 95 % 0.5 cd/lm 1 White J Series 5050B 6V K Class Asymmetric 82 % 0.4 cd/lm 1 White | |
| LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: | Asymmetric 95 % 0.5 cd/lm 1 White J Series 5050B 6V K Class Asymmetric 82 % 0.4 cd/lm 1 White | |



| LED | XP-G | 8 |
|---|---|--|
| FWHM / FWTM | 158.0 + 76.0° / 166.0 + 130.0° | 73% |
| Efficiency | 81 % | A from A |
| Peak intensity | 0.5 cd/lm | 50* |
| | 1 | |
| LEDs/each optic | White | $\times \times / \times \rangle$ |
| Light colour Required components: | wille | 45* 400 |
| Required components: | | |
| Protective plat | le, glass | |
| | | 600 |
| | | 20° 13 ² 2 ⁶ 15° |
| | | 90* |
| LED | XP-G2 HE | 9 |
| FWHM / FWTM | Asymmetric | 75* |
| Efficiency | 83 % | |
| Peak intensity | 0.4 cd/lm | 60° <u>520</u> |
| LEDs/each optic | 1 | |
| Light colour | White | 45* 300 |
| Required components: | | 400 |
| | | XITX |
| Protective plat | le, glass | |
| | | |
| | | |
| | | 13 050 13. |
| | | 25° 660 13° |
| CREE ÷ | XP-G2 HE | 30 ⁻ |
| | XP-G2 HE Asymmetric | 13° <u>(b)</u> 13° 19° 19° |
| LED | | 10° 400 13° 10° 10° 10° 10° |
| LED FWHM / FWTM | Asymmetric | 13° 460 13° 19° 19° 19° 19° 19° 19° 19° 19° 19° |
| LED FWHM / FWTM Efficiency Peak intensity | Asymmetric 92 % | |
| LED FWHM / FWTM Efficiency | Asymmetric 92 % 0.6 cd/lm | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic | Asymmetric 92 % 0.6 cd/lm 1 | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 92 % 0.6 cd/lm 1 | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 92 % 0.6 cd/lm 1 | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 92 % 0.6 cd/lm 1 | 25° 260 60° 300 60° 600 700 700 800 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: | Asymmetric 92 % 0.6 cd/lm 1 | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 92 % 0.6 cd/lm 1 White | 25° 260 60° 300 60° 600 700 700 800 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: | Asymmetric 92 % 0.6 cd/lm 1 White XP-G3 | 25° 260 60° 300 60° 600 700 700 800 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: | Asymmetric 92 % 0.6 cd/lm 1 White | 25° 260 60° 300 60° 600 700 700 800 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: | Asymmetric 92 % 0.6 cd/lm 1 White XP-G3 | 25° 260 60° 300 60° 600 700 700 800 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE ED FWHM / FWTM Efficiency | Asymmetric 92 % 0.6 cd/lm 1 White XP-G3 Asymmetric | 25° 260 60° 300 60° 600 700 700 800 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: | Asymmetric 92 % 0.6 cd/lm 1 White XP-G3 Asymmetric 76 % | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic | Asymmetric 92 % 0.6 cd/lm 1 White XP-G3 Asymmetric 76 % 0.6 cd/lm | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE EDS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 92 % 0.6 cd/lm 1 White XP-G3 Asymmetric 76 % 0.6 cd/lm 1 White | 25° 260 60° 300 60° 600 700 700 800 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE ED FWHM / FWTM Efficiency Peak intensity | Asymmetric 92 % 0.6 cd/lm 1 White XP-G3 Asymmetric 76 % 0.6 cd/lm 1 White | 25° 260 60° 300 60° 600 700 700 800 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREEE ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17580_STRADA-2 | Asymmetric 92 % 0.6 cd/lm 1 White XP-G3 Asymmetric 76 % 0.6 cd/lm 1 White X2-SHD-WHT | 25° 260 60° 300 60° 600 700 700 800 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: | Asymmetric 92 % 0.6 cd/lm 1 White XP-G3 Asymmetric 76 % 0.6 cd/lm 1 White X2-SHD-WHT | |



| CREE ÷ | | 90° |
|----------------------|------------|--|
| LEDs | XP-G3 | 90° 5 |
| FWHM / FWTM | Asymmetric | 756 100 |
| | 80 % | |
| Efficiency | 0.5 cd/lm | eu. |
| Peak intensity | | |
| LEDs/each optic | 1 | 30 |
| Light colour | White | 400 |
| Required components: | | \times |
| Protective plate | , glass | 200 |
| | | 500 |
| | | 30 ⁵ 15 ⁵ 0 ⁶ 15 ⁶ |
| | | 90* |
| LED | XP-G4 | |
| FWHM / FWTM | Asymmetric | 720 |
| Efficiency | 94 % | |
| Peak intensity | 0.7 cd/lm | |
| LEDs/each optic | 1 | 40 |
| Light colour | White | 45° et |
| Required components: | | 600 |
| | | |
| | | |
| | | |
| | | 30° 15° 31 |
| | | 50° 91 |
| LED | XP-G4 | |
| FWHM / FWTM | Asymmetric | |
| Efficiency | 83 % | |
| Peak intensity | 0.6 cd/lm | |
| LEDs/each optic | 1 | 300 |
| Light colour | White | 45° |
| Required components: | | X/TX |
| | | |
| Protective plate | , glass | |
| | | 30* |
| CREE ≑ | | 142 0 ⁰ 132 |
| LEDS | VT F | 90° 5 |
| | XT-E | 730 |
| FWHM / FWTM | Asymmetric | |
| Efficiency | 92 % | 50 ⁴ |
| Peak intensity | 0.7 cd/lm | X/T X |
| LEDs/each optic | 1 | 500 |
| Light colour | White | 65* · |
| Required components: | | 200 |
| | | $\times / \top \setminus X$ |
| | | 1000 |
| | | 30* |
| | | 15, 0, 12, |



| LED | XT-E | |
|---|--|---|
| FWHM / FWTM | Asymmetric | 730 100 770 |
| Efficiency | 76 % | 200 |
| Peak intensity | 0.7 cd/lm | 60 ⁴ 60 ⁴ . |
| LEDs/each optic | 1 | |
| Light colour | White | 40 6* |
| Required components: | White | |
| C17677_STRADA-2X | (2-SHD-BLK | 500 |
| | | 60 |
| | | |
| | | 30* 760 15 ⁵ 0 ⁶ 15 ⁴ |
| | | |
| | | 90 ⁺ 90 ⁺ |
| LED | XT-E | 73° |
| FWHM / FWTM | Asymmetric | |
| Efficiency | 68 % | 50° 60* |
| Peak intensity | 0.5 cd/lm | |
| LEDs/each optic | 1 White | X John X |
| Light colour Required components: | Wille | 6' 6' |
| C17677_STRADA-2X | | |
| | | |
| Protective plate | e, glass | 200 |
| | | 30° 15° 30° |
| | | |
| CREE ≑ | | |
| | | 90° |
| LED | XT-E HE | 90° 90° 78° 700 72° |
| LED FWHM / FWTM | 156.0 + 73.0° / 164.0 + 128.0° | 100 |
| LED FWHM / FWTM Efficiency | 156.0 + 73.0° / 164.0 + 128.0° 84 % | 92 ⁻ 74- 64 ⁻ 60 ⁻ 60 ⁻ |
| LED FWHM / FWTM Efficiency Peak intensity | 156.0 + 73.0° / 164.0 + 128.0° 84 % 0.5 cd/lm | 97 - 97 75 - 100 - 72 65 - 69 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic | 156.0 + 73.0° / 164.0 + 128.0° 84 % 0.5 cd/lm 1 | 6 ¹⁷ 6 ¹⁷ |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | 156.0 + 73.0° / 164.0 + 128.0° 84 % 0.5 cd/lm | 97 90 90 90 90 90 90 90 90 90 90 90 90 90 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic | 156.0 + 73.0° / 164.0 + 128.0° 84 % 0.5 cd/lm 1 | 6 ¹⁷ 6 ¹⁷ |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | 156.0 + 73.0° / 164.0 + 128.0° 84 % 0.5 cd/lm 1 White | 60° (67 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: | 156.0 + 73.0° / 164.0 + 128.0° 84 % 0.5 cd/lm 1 White | 6 ¹⁷ 6 ¹⁷ |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate | 156.0 + 73.0° / 164.0 + 128.0° 84 % 0.5 cd/lm 1 White | 60° (67 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate | 156.0 + 73.0° / 164.0 + 128.0° 84 % 0.5 cd/lm 1 White | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate | 156.0 + 73.0° / 164.0 + 128.0° 84 % 0.5 cd/lm 1 White a, glass | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate | 156.0 + 73.0° / 164.0 + 128.0° 84 % 0.5 cd/lm 1 White 9, glass | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate | 156.0 + 73.0° / 164.0 + 128.0° 84 % 0.5 cd/lm 1 White 2, glass XT-E HE 158.0 + 73.0° / 166.0 + 130.0° | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate | 156.0 + 73.0° / 164.0 + 128.0° 84 % 0.5 cd/lm 1 White 2, glass XT-E HE 158.0 + 73.0° / 166.0 + 130.0° 95 % | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate CREE LED FWHM / FWTM Efficiency Peak intensity | 156.0 + 73.0° / 164.0 + 128.0° 84 % 0.5 cd/lm 1 White 2, glass XT-E HE 158.0 + 73.0° / 166.0 + 130.0° | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic | 156.0 + 73.0° / 164.0 + 128.0° 84 % 0.5 cd/lm 1 White e, glass XT-E HE 158.0 + 73.0° / 166.0 + 130.0° 95 % 0.7 cd/lm 1 | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate Protective plate ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | 156.0 + 73.0° / 164.0 + 128.0° 84 % 0.5 cd/lm 1 White e, glass XT-E HE 158.0 + 73.0° / 166.0 + 130.0° 95 % 0.7 cd/lm | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic | 156.0 + 73.0° / 164.0 + 128.0° 84 % 0.5 cd/lm 1 White e, glass XT-E HE 158.0 + 73.0° / 166.0 + 130.0° 95 % 0.7 cd/lm 1 | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate Protective plate ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | 156.0 + 73.0° / 164.0 + 128.0° 84 % 0.5 cd/lm 1 White e, glass XT-E HE 158.0 + 73.0° / 166.0 + 130.0° 95 % 0.7 cd/lm 1 | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate Protective plate ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | 156.0 + 73.0° / 164.0 + 128.0° 84 % 0.5 cd/lm 1 White e, glass XT-E HE 158.0 + 73.0° / 166.0 + 130.0° 95 % 0.7 cd/lm 1 | |



| UMILE | DS | 90° |
|---------------------|------------------------|---|
| LED | LUXEON 5050 HE | 9 |
| FWHM / FWTM | Asymmetric | 73% |
| Efficiency | 82 % | |
| Peak intensity | 0.4 cd/lm | |
| LEDs/each optic | 1 | |
| Light colour | White | 65' |
| Required components | : | *** |
| Protective pl | ate, glass | 50 |
| | | 20 ⁺ 20 ⁺ 00 ⁺ 20 ⁺ 2 |
| | DS | 8* |
| LED | LUXEON 5050 Round LES | 9 |
| FWHM / FWTM | Asymmetric | 729 500 77 |
| Efficiency | 82 % | |
| Peak intensity | 0.4 cd/lm | 60 ¹⁵ 80 |
| LEDs/each optic | 1 | |
| Light colour | White | |
| Required components | : | 40 |
| Protective pl | ate, glass | |
| | | 20* 20 ³ 0* 10* 2 |
| | DS | 82° |
| LED | LUXEON 5050 Square LES | 9 |
| FWHM / FWTM | Asymmetric | 75 5 500 - 77 |
| Efficiency | 82 % | |
| Peak intensity | 0.4 cd/lm | |
| LEDs/each optic | 1 | |
| Light colour | White | 451 |
| Required components | : | 400 |
| Protective pl | ate, glass | |
| | | 200 |
| | DS | |
| | | 90° |
| LED FWHM / FWTM | LUXEON 5050 Square LES | 735 |
| Efficiency | Asymmetric 68 % | |
| Peak intensity | 0.4 cd/lm | 60 6 |
| LEDs/each optic | 0.4 cd/im 1 | |
| Light colour | White | |
| Required components | | 45. 360 |
| C17677_STRADA- | | |
| | | |



| UMILE | DS | 50" 50" |
|--|--|--|
| LED | LUXEON 5050 Square LES | 100 |
| FWHM / FWTM | Asymmetric | 75 |
| Efficiency | 95 % | |
| Peak intensity | 0.5 cd/lm | 60° 60 |
| LEDs/each optic | 1 | |
| Light colour | White | 400 |
| Required components: | | 50 |
| | | |
| | | |
| | | 30* 30 |
| | | |
| | | 90* 90 |
| LED | LUXEON 5050 Square LES | 736 100 75 |
| FWHM / FWTM | Asymmetric | |
| Efficiency | 87 % | 60° (00) |
| Peak intensity | 0.5 cd/lm | |
| LEDs/each optic | 1 | 30 |
| Light colour | White | 45* 460 55* |
| Required components: C17580_STRADA-22 | | |
| C17560_51RADA-2/ | X2-SHD-WHT | 50 |
| | | 600 |
| | | 30 ⁺ 15 ⁵ 0 ⁶ 15 ⁺ 30 ⁺ |
| | DS | 90 ⁶ |
| | | |
| LED | LUXEON HL2X | |
| | LUXEON HL2X 156.0 + 75.0° / 165.0 + 114.0° | 731 |
| FWHM / FWTM | | 25 |
| FWHM / FWTM Efficiency | 156.0 + 75.0° / 165.0 + 114.0° | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic | 156.0 + 75.0° / 165.0 + 114.0° 82 % | |
| FWHM / FWTM Efficiency Peak intensity LEDs/each optic | 156.0 + 75.0° / 165.0 + 114.0° 82 % 0.4 cd/lm | |
| FWHM / FWTM Efficiency Peak intensity | 156.0 + 75.0° / 165.0 + 114.0° 82 % 0.4 cd/lm 1 | |
| FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: | 156.0 + 75.0° / 165.0 + 114.0° 82 % 0.4 cd/lm 1 White | |
| FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | 156.0 + 75.0° / 165.0 + 114.0° 82 % 0.4 cd/lm 1 White | |
| FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: | 156.0 + 75.0° / 165.0 + 114.0° 82 % 0.4 cd/lm 1 White | |
| FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plat | 156.0 + 75.0° / 165.0 + 114.0° 82 % 0.4 cd/lm 1 White e, glass | |
| FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate | 156.0 + 75.0° / 165.0 + 114.0° 82 % 0.4 cd/lm 1 White e, glass | |
| FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate | 156.0 + 75.0° / 165.0 + 114.0° 82 % 0.4 cd/lm 1 White e. glass LUXEON HL2X-D | |
| FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate CONTINUED LED FWHM / FWTM | 156.0 + 75.0° / 165.0 + 114.0° 82 % 0.4 cd/lm 1 White e. glass LUXEON HL2X-D Asymmetric | 60 50 50 60 50 50 50 50 50 50 50 50 50 50 50 50 50 |
| FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plat Protective plat CONTINUET LED FWHM / FWTM Efficiency | 156.0 + 75.0° / 165.0 + 114.0° 82 % 0.4 cd/lm 1 White e, glass LUXEON HL2X-D Asymmetric 96 % | 60 50 50 60 50 50 50 50 50 50 50 50 50 50 50 50 50 |
| FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plat Who Protective plat | 156.0 + 75.0° / 165.0 + 114.0° 82 % 0.4 cd/lm 1 White e, glass LUXEON HL2X-D Asymmetric 96 % 0.6 cd/lm | 20 20 20 20 20 20 20 20 20 20 20 20 20 2 |
| FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plat Who Protective plat COMPLET LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic | 156.0 + 75.0° / 165.0 + 114.0° 82 % 0.4 cd/lm 1 White e, glass CS LUXEON HL2X-D Asymmetric 96 % 0.6 cd/lm 1 | 20 20 20 20 20 20 20 20 20 20 20 20 20 2 |
| FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plat Work Colour CONTINUES CONTINUES CONTINUES CONTINUES | 156.0 + 75.0° / 165.0 + 114.0° 82 % 0.4 cd/lm 1 White e, glass LUXEON HL2X-D Asymmetric 96 % 0.6 cd/lm | 20 20 20 20 20 20 20 20 20 20 20 20 20 2 |
| FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plat White plat Composition of the plat Protective plat Composition of the plat Protective plat Protective plat | 156.0 + 75.0° / 165.0 + 114.0° 82 % 0.4 cd/lm 1 White e, glass CS LUXEON HL2X-D Asymmetric 96 % 0.6 cd/lm 1 | |
| FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plat OUNILED EVHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | 156.0 + 75.0° / 165.0 + 114.0° 82 % 0.4 cd/lm 1 White e, glass CS LUXEON HL2X-D Asymmetric 96 % 0.6 cd/lm 1 | |
| FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plat OUNILED EVHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | 156.0 + 75.0° / 165.0 + 114.0° 82 % 0.4 cd/lm 1 White e, glass CS LUXEON HL2X-D Asymmetric 96 % 0.6 cd/lm 1 | 20 20 20 20 20 20 20 20 20 20 20 20 20 2 |



| UMILE |)S | 90 ⁺ 90 |
|---|---|--|
| LED | LUXEON HL2X-D | 4 |
| FWHM / FWTM | Asymmetric | 751 100 |
| Efficiency | 82 % | |
| Peak intensity | 0.4 cd/lm | 60° 6 |
| LEDs/each optic | 1 | |
| Light colour | White | 45* 300 |
| Required components: | | 400 |
| Protective plat | e, glass | |
| | | 30 ⁴ 43 ⁵ 0 ⁶ 10 ⁵ 3 |
| |)5 | 8° |
| LED | LUXEON HL2X-P | 5 |
| FWHM / FWTM | Asymmetric | 734 100 75 |
| Efficiency | 81 % | |
| Peak intensity | 0.4 cd/lm | 60° |
| LEDs/each optic | 1 | |
| Light colour | White | 45* 300 45 |
| Required components: | | 40 |
| Protective plat | e, glass | X/T/X |
| | | 30* 30 |
| |)S | 80 ⁺ |
| LED | LUXEON HL2X-P | 4 |
| FWHM / FWTM | Asymmetric | 756 100 77 |
| Efficiency | 96 % | |
| Peak intensity | 0.6 cd/lm | 80 ⁺ |
| LEDs/each optic | 1 | |
| Light colour | White | 45 40 40 |
| Required components: | | |
| | | |
| | | |
| | | 30* 30 30 |
| | DS | |
| | | |
| | I LIXEON TX | |
| LED | LUXEON TX 156.0 + 74.0° / 164.0 + 130.0° | 750 77 |
| LED FWHM / FWTM | 156.0 + 74.0° / 164.0 + 130.0° | 75 500 |
| LED FWHM / FWTM Efficiency | 156.0 + 74.0° / 164.0 + 130.0° 82 % | |
| LED FWHM / FWTM Efficiency Peak intensity | 156.0 + 74.0° / 164.0 + 130.0° 82 % 0.5 cd/lm | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic | 156.0 + 74.0° / 164.0 + 130.0° 82 % 0.5 cd/lm 1 | |
| LED FWHM / FWTM Efficiency Peak intensity | 156.0 + 74.0° / 164.0 + 130.0° 82 % 0.5 cd/lm | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: | 156.0 + 74.0° / 164.0 + 130.0° 82 % 0.5 cd/lm 1 White | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | 156.0 + 74.0° / 164.0 + 130.0° 82 % 0.5 cd/lm 1 White | |



| UMILEI | DS | 20* |
|---|--|--|
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: | LUXEON V2 156.0 + 72.0° / 164.0 + 127.0° 95 % 0.7 cd/lm 1 White | |
| | DS | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: | LUXEON V2 154.0 + 72.0° / 162.0 + 125.0° 84 % 0.5 cd/lm 1 White | 5° 60 6 |
| Protective plat | e, glass | ave 10° 10° 10° |
| | DS | ** |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: | LUXEON XR-HL2X (L2H2-xxxxxMLU010) Asymmetric 96 % 0.6 cd/lm 1 White | |
| UMILEI | DS | 50" |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: | LUXEON XR-HL2X (L2H2-xxxxxMLU010) Asymmetric 82 % 0.4 cd/lm 1 White | |
| Protective plat | e, glass | 500 32 ⁴ 32 8 ² / ₆ 32 |



| ΜΝΙCΗΙΛ | | |
|---|---|--|
| LED | NFSx757G | 7 |
| FWHM / FWTM | Asymmetric | 756 100 750 |
| Efficiency | 81 % | |
| Peak intensity | 0.6 cd/lm | 604 604 |
| LEDs/each optic | 1 | |
| Light colour | White | 40° 41° |
| Required components: | wille | 10 ⁻ |
| required components. | | |
| Protective plate | , glass | 00 |
| | | 700 |
| | | 30* 15 ³ 0* 15* 30* |
| ΜΝΙCΗΙΛ | | 90* 90* |
| LED | NVSW219F | 9 |
| FWHM / FWTM | 159.0 + 74.0° / 166.0 + 122.0° | 73* |
| Efficiency | 95 % | |
| Peak intensity | 0.7 cd/lm | 60* 60* |
| LEDs/each optic | 1 | 400 |
| Light colour | White | 45° |
| Required components: | | 600 |
| | | |
| | | 200 |
| | | at |
| | | 15 ⁵ 0 ⁶ 15 ⁴ |
| Μ ΝΙCΗΙΛ | | 90° 90° |
| LED | NVSW219F | 9 |
| FWHM / FWTM | 156.0 + 74.0° / 164.0 + 121.0° | 75° |
| Efficiency | 84 % | 50 ⁴ 50 ⁴ |
| Peak intensity | 0.5 cd/lm | |
| LEDs/each optic | 1 | 30 |
| Light colour | White | 45* 45* |
| Required components: | | |
| Protective plate | alass | 500 |
| | , 9000 | $\times / \top \setminus \times$ |
| | | |
| | | 30* 000 30* 30* |
| MICHIΛ | | 200° 100 100 100 100 100 100 100 100 100 |
| | NVSW519A | 20 ¹⁰ 20 ¹⁰ 20 ¹⁰ 20 ¹⁰ 20 ¹⁰ |
| LED | NVSW519A Asymmetric | 30 ⁴ 20 ⁴ 20 30 ⁴ 20 30 ⁴ 20 30 ⁴ 30 30 ⁴ 30 30 ⁴ 30 30 ⁴ 30 |
| LED FWHM / FWTM | Asymmetric | |
| LED FWHM / FWTM Efficiency | Asymmetric 83 % | |
| LED FWHM / FWTM Efficiency Peak intensity | Asymmetric | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic | Asymmetric 83 % 0.4 cd/lm 1 | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 83 % 0.4 cd/lm | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: | Asymmetric 83 % 0.4 cd/lm 1 White | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 83 % 0.4 cd/lm 1 White | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: | Asymmetric 83 % 0.4 cd/lm 1 White | |



| ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: | NVSW519A Asymmetric 93 % 0.6 cd/lm 1 White | |
|---|--|---|
| MICHIΛ | | 13 ⁵ 0° 15° |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: | NVSxE21A Asymmetric 92 % 0.5 cd/lm 4 White | |
| NICHIA LED FWHM / FWTM | NVSxE21A Asymmetric | 10 ⁴ 10 12 ⁴ 100 |
| Efficiency Peak intensity LEDs/each optic | Asymmetric 81 % 0.4 cd/lm 4 | |
| Light colour Required components: Protective plate | White | 67 60 6 |
| · | | 30° 13° 0° 13° 30 |
| Μ ΝΙCΗΙΛ | | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: | NVSxx19B/NVSxx19C Asymmetric 80 % 0.5 cd/lm 1 White | |
| Protective plate | , glass | 20 ¹⁰ 20 ¹⁰ 20 ¹⁰ 20 ¹⁰ 2 |



| (| | |
|---|--|---|
| OSRAM Opto Semiconductors | | 90* 90* |
| LED | Duris S8 | |
| FWHM / FWTM | Asymmetric | 75° 100 78° |
| Efficiency | 79 % | |
| Peak intensity | 0.5 cd/lm | 60* 60* |
| LEDs/each optic | 1 | |
| Light colour | White | 5° |
| Required components: | Wine | 45" 400 |
| C17677_STRADA-2 | | X/T/X |
| | | 500 |
| | | |
| | | 30* <u>500</u> 30* 30* |
| OSRAM Opto Semiconductors | | THY FFT |
| | | 90* 90* |
| | Duris S8 | 750 750 |
| FWHM / FWTM | Asymmetric | |
| Efficiency | 84 % | 50° 60°. |
| Peak intensity | 0.4 cd/lm | |
| LEDs/each optic | 1 | |
| Light colour | White | 45° |
| Required components: | | 400 |
| Protective pla | e dass | |
| i loteetive pla | | × 7 50 |
| | | 30* 35° 0% 15° 30* |
| OSRAM Opto Semiconductors | | got got |
| LED | OSCONIQ C 2424 | |
| FWHM / FWTM | 152.0 + 69.0° / 160.0 + 119.0° | 75° |
| Efficiency | 85 % | |
| Peak intensity | 0.6 cd/lm | 50* 300 60* |
| LEDs/each optic | 1 | |
| Light colour | White | |
| Required components: | | 500 |
| | | 600 |
| | | |
| Protective pla | e, glass | 700 |
| Protective pla | e, glass | 70 |
| Protective pla | e, glass | 30° 10° 10° 20° |
| OSRAM | e, glass | 700 30 ⁴ 20 ⁵ 20 ⁵ 30 ⁴ |
| OSRAM Opto Semiconductors | | 700 30 ⁴ 25 ² 0 ⁴ 25 ⁴ 30 ⁵ |
| OSRAM Opto Semiconductors LED | OSCONIQ C 2424 | 20° 20° 20° 20° 20° |
| Opto Semiconductors LED FWHM / FWTM | OSCONIQ C 2424 154.0 + 68.0° / 160.0 + 119.0° | 80° 90° |
| OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency | OSCONIQ C 2424 154.0 + 68.0° / 160.0 + 119.0° 96 % | 82* |
| OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity | OSCONIQ C 2424 154.0 + 68.0° / 160.0 + 119.0° 96 % 0.9 cd/lm | 82* |
| OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic | OSCONIQ C 2424 154.0 + 68.0° / 160.0 + 119.0° 96 % 0.9 cd/lm 1 | 90° 73° 60° 800 800 800 |
| OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | OSCONIQ C 2424 154.0 + 68.0° / 160.0 + 119.0° 96 % 0.9 cd/lm | 90° 90° |
| OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic | OSCONIQ C 2424 154.0 + 68.0° / 160.0 + 119.0° 96 % 0.9 cd/lm 1 | 92 [*] 73 [*] 60 [*] 800 800 |
| OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | OSCONIQ C 2424 154.0 + 68.0° / 160.0 + 119.0° 96 % 0.9 cd/lm 1 | 92 [*] 73 [*] 60 [*] 800 800 |
| OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | OSCONIQ C 2424 154.0 + 68.0° / 160.0 + 119.0° 96 % 0.9 cd/lm 1 | 90° 73° 60° 800 800 800 |



| OSRAM Opto Semiconductors | 80° |
|---|---|
| | |
| LED OSLON Square CSSRM2/CSSRM3 | 4 |
| FWHM / FWTM Asymmetric | |
| Efficiency 85 % | |
| Peak intensity 0.6 cd/lm | 50° 300 7 |
| LEDs/each optic 1 | |
| Light colour White | |
| Required components: | 45° 500 C |
| Required components. | 540 |
| Protective plate, glass | 740 |
| | 800 |
| | (30* 115 ⁴ 15 ⁴ 15 ⁴ |
| OSRAM Opto Semiconductors | 80* |
| LED OSLON Square CSSRM2/CSSRM3 | |
| FWHM / FWTM Asymmetric | 75° |
| Efficiency 71 % | |
| Peak intensity 0.5 cd/lm | |
| LEDs/each optic 1 | |
| Light colour White | 45* |
| Required components: | 30 |
| C17580_STRADA-2X2-SHD-WHT | |
| | 400 |
| Protective plate, glass | 30° 35° 40° 15° |
| PHILIPS | |
| | 90° |
| LED Fortimo FastFlex LED 2x8 DA G4+ | 750 |
| FWHM / FWTM Asymmetric | |
| Efficiency 67 % | 50* |
| Peak intensity 0.4 cd/lm | |
| LEDs/each optic 1 Light colour White | |
| 5 | e., |
| Required components: C17677_STRADA-2X2-SHD-BLK | 300 |
| | |
| Protective plate, glass | 400 |
| | 20* 13 ⁵ 0 ⁶ 15* 3 |
| PHILIPS | 90 ⁴ |
| LED Fortimo FastFlex LED 2x8 DA G4+ | |
| FWHM / FWTM Asymmetric | 730 |
| Efficiency 76 % | |
| Peak intensity 0.6 cd/lm | sur the survey of |
| LEDs/each optic 1 | |
| Light colour White | 45* 300 |
| Required components: | |
| C17677_STRADA-2X2-SHD-BLK | 400 |
| | |
| | |
| | |



| PHILIPS | | |
|---|--|---|
| LED | Fortimo FastFlex LED 2x8 DA G5 | 5 |
| FWHM / FWTM | Asymmetric | 100 /5 |
| Efficiency | 84 % | 200 |
| Peak intensity | 0.5 cd/lm | 505 50 |
| LEDs/each optic | 1 | 30 |
| Light colour | White | 400 45 |
| Required components: | | 500 |
| | | |
| Protective plat | e, glass | 000 |
| | | 30° 700 30° |
| | | |
| PHILIPS | | 80° 90° |
| LED | Fortimo FastFlex LED 2x8 DA HE | 9 |
| FWHM / FWTM | Asymmetric | 75 (100 75' |
| Efficiency | 96 % | 200 |
| Peak intensity | 0.5 cd/lm | 60 ¹⁴ 60 ¹ |
| LEDs/each optic | 1 | |
| Light colour | White | 45* 400 45 |
| Required components: | | |
| | | |
| | | 640 |
| | | 700 |
| | | 115 ⁵ 0 ⁶ 15 ⁶ |
| PHILIPS | | 90° 90° |
| LED | | |
| | Fortimo FastFlex LED 2x8 DA HE | 9 |
| FWHM / FWTM | Asymmetric | 73% |
| | | 2 ¹⁰ |
| FWHM / FWTM | Asymmetric | |
| FWHM / FWTM Efficiency | Asymmetric 83 % | |
| FWHM / FWTM Efficiency Peak intensity | Asymmetric 83 % 0.4 cd/lm | 23° - 230 - 77 50° - 90 60° - 200 - 60° |
| FWHM / FWTM Efficiency Peak intensity LEDs/each optic | Asymmetric 83 % 0.4 cd/lm 1 | |
| FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: | Asymmetric 83 % 0.4 cd/lm 1 White | |
| FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 83 % 0.4 cd/lm 1 White | |
| FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: | Asymmetric 83 % 0.4 cd/lm 1 White | 20 |
| FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plat | Asymmetric 83 % 0.4 cd/lm 1 White | |
| FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: | Asymmetric 83 % 0.4 cd/lm 1 White | 20 |
| FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plat | Asymmetric 83 % 0.4 cd/lm 1 White e, glass NG LH181B | |
| FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plat SAMSUN LED FWHM / FWTM | Asymmetric 83 % 0.4 cd/lm 1 White e, glass IG LH181B Asymmetric | |
| FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plat SAMSUN LED FWHM / FWTM Efficiency | Asymmetric 83 % 0.4 cd/lm 1 White e, glass ILH181B Asymmetric 93 % | |
| FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plat SAMSUN LED FWHM / FWTM Efficiency Peak intensity | Asymmetric 83 % 0.4 cd/lm 1 White e, glass IG LH181B Asymmetric | |
| FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plat SAMSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic | Asymmetric 83 % 0.4 cd/lm 1 White e, glass LH181B Asymmetric 93 % 0.5 cd/lm 4 | |
| FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plat SANNSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 83 % 0.4 cd/lm 1 White e, glass VG LH181B Asymmetric 93 % 0.5 cd/lm | |
| FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plat SAMSUM LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic | Asymmetric 83 % 0.4 cd/lm 1 White e, glass LH181B Asymmetric 93 % 0.5 cd/lm 4 | |
| FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plat SANNSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 83 % 0.4 cd/lm 1 White e, glass LH181B Asymmetric 93 % 0.5 cd/lm 4 | |
| FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plat SANNSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 83 % 0.4 cd/lm 1 White e, glass LH181B Asymmetric 93 % 0.5 cd/lm 4 | |
| FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plat SAMSSUS ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 83 % 0.4 cd/lm 1 White e, glass LH181B Asymmetric 93 % 0.5 cd/lm 4 | av (00 (00)) |



| SAMSUN | IG | 014 |
|---|---|---|
| LED | LH351B | |
| FWHM / FWTM | 157.0 + 72.0° / 165.0 + 110.0° | 75° |
| Efficiency | 96 % | |
| Peak intensity | 0.7 cd/lm | 60 ⁴ 60 ⁴ |
| LEDs/each optic | 1 | |
| Light colour | White | -45° - 45° |
| Required components: | | |
| | | |
| | | |
| | | 800 |
| | | ^{30°} 13 ⁵ 0 ⁶ 15 ⁶ ^{30°} |
| SAMSUN | IG | 90* 90* |
| LED | LH351B | 9 |
| FWHM / FWTM | 154.0 + 72.0° / 163.0 + 109.0° | 75° |
| Efficiency | 85 % | |
| Peak intensity | 0.5 cd/lm | 60* |
| LEDs/each optic | 1 | 30 |
| Light colour | White | 45 |
| Required components: | | |
| Drotostivo plati | | |
| Protective plate | e, glass | |
| | | 30* 15 ² 0 ⁶ 15 ⁴ 33 ⁴ |
| | | |
| | | TAY EFT |
| SAMSUN | | 50* 50* |
| LED | LH351C | 50° 50° 50° 50° 50° 50° 50° 50° 50° 50° |
| LED FWHM / FWTM | LH351C 154.0 + 73.0° / 163.0 + 109.0° | 224 254 264 264 |
| LED FWHM / FWTM Efficiency | LH351C 154.0 + 73.0° / 163.0 + 109.0° 85 % | 90° 73° 40° |
| LED FWHM / FWTM Efficiency Peak intensity | LH351C 154.0 + 73.0° / 163.0 + 109.0° 85 % 0.5 cd/lm | 90 [*] 73 [*] 61 [*] 61 [*] |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic | LH351C 154.0 + 73.0° / 163.0 + 109.0° 85 % 0.5 cd/lm 1 | 997 737 614 700 700 700 604 604 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | LH351C 154.0 + 73.0° / 163.0 + 109.0° 85 % 0.5 cd/lm | 99 ⁻ 75 ⁻ 60 ⁺ 60 ⁺ 6 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic | LH351C 154.0 + 73.0° / 163.0 + 109.0° 85 % 0.5 cd/lm 1 | 97 73 100 50 50 60 60 60 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | LH351C 154.0 + 73.0° / 163.0 + 109.0° 85 % 0.5 cd/lm 1 White | 50° 73° 60° 60° 60° 60° 60° 60° 60° 60° 60° 60 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: | LH351C 154.0 + 73.0° / 163.0 + 109.0° 85 % 0.5 cd/lm 1 White | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate | LH351C 154.0 + 73.0° / 163.0 + 109.0° 85 % 0.5 cd/lm 1 White | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate | LH351C 154.0 + 73.0° / 163.0 + 109.0° 85 % 0.5 cd/lm 1 White | 99 ² 75 ³ 64 ³ 65 ³ 60 70 ³ 70 ³ 60 70 ³ 70 ³ 60 70 ³ 70 ³ |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: | LH351C 154.0 + 73.0° / 163.0 + 109.0° 85 % 0.5 cd/lm 1 White | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate | LH351C 154.0 + 73.0° / 163.0 + 109.0° 85 % 0.5 cd/lm 1 White e, glass | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate SAMSUN LED | LH351C 154.0 + 73.0° / 163.0 + 109.0° 85 % 0.5 cd/lm 1 White e, glass | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate SAMSUN LED FWHM / FWTM | LH351C 154.0 + 73.0° / 163.0 + 109.0° 85 % 0.5 cd/lm 1 White e, glass LH351C 157.0 + 73.0° / 164.0 + 109.0° | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate SAMSUN LED FWHM / FWTM Efficiency | LH351C 154.0 + 73.0° / 163.0 + 109.0° 85 % 0.5 cd/lm 1 White e, glass LH351C 157.0 + 73.0° / 164.0 + 109.0° 96 % | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate SAMSSUN LED FWHM / FWTM Efficiency Peak intensity | LH351C 154.0 + 73.0° / 163.0 + 109.0° 85 % 0.5 cd/lm 1 White e, glass LH351C 157.0 + 73.0° / 164.0 + 109.0° 96 % 0.7 cd/lm | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate SANSSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic | LH351C 154.0 + 73.0° / 163.0 + 109.0° 85 % 0.5 cd/lm 1 White e, glass LH351C 157.0 + 73.0° / 164.0 + 109.0° 96 % 0.7 cd/lm 1 | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate SANNSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | LH351C 154.0 + 73.0° / 163.0 + 109.0° 85 % 0.5 cd/lm 1 White e, glass LH351C 157.0 + 73.0° / 164.0 + 109.0° 96 % 0.7 cd/lm 1 | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate SANNSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | LH351C 154.0 + 73.0° / 163.0 + 109.0° 85 % 0.5 cd/lm 1 White e, glass LH351C 157.0 + 73.0° / 164.0 + 109.0° 96 % 0.7 cd/lm 1 | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate SANNSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | LH351C 154.0 + 73.0° / 163.0 + 109.0° 85 % 0.5 cd/lm 1 White e, glass LH351C 157.0 + 73.0° / 164.0 + 109.0° 96 % 0.7 cd/lm 1 | |



| SAMSU | | |
|---|---|--|
| | | 90* 90* |
| LED | LH351D | 230 |
| FWHM / FWTM | 155.0 + 73.0° / 165.0 + 119.0° | |
| Efficiency | 84 % 0.4 cd/lm | .60* |
| Peak intensity LEDs/each optic | 1.4 colim | |
| Light colour | White | 457 300 457 |
| Required components: | Wille | |
| riedanea componenioi | | 400 |
| Protective plat | e, glass | |
| | | 30° 15° 0° 15° 30° |
| SAMSU | NG | |
| LED | LH502D | |
| FWHM / FWTM | Asymmetric | 75° |
| Efficiency | 93 % | The second secon |
| Peak intensity | 0.5 cd/lm | 50° 500 |
| LEDs/each optic | 1 | |
| Light colour | White | 40° 400 |
| Required components: | | |
| | | |
| | | |
| | | 30* 30* |
| | | |
| SVWZII | N.C. | TNY EFT |
| SAMSU | | |
| LED | LH502D | 99 ⁴ 75 ⁴ 100 75 |
| LED FWHM / FWTM | LH502D Asymmetric | 90 ⁴ 73 ⁵ 200 |
| LED FWHM / FWTM Efficiency | LH502D Asymmetric 81 % | |
| LED FWHM / FWTM Efficiency Peak intensity | LH502D Asymmetric 81 % 0.4 cd/lm | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic | LH502D Asymmetric 81 % 0.4 cd/lm 1 | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | LH502D Asymmetric 81 % 0.4 cd/lm | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: | LH502D Asymmetric 81 % 0.4 cd/lm 1 White | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | LH502D Asymmetric 81 % 0.4 cd/lm 1 White | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: | LH502D Asymmetric 81 % 0.4 cd/lm 1 White | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plat | LH502D Asymmetric 81 % 0.4 cd/lm 1 White | 409 509 509 509 509 509 509 509 509 509 5 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plat | LH502D Asymmetric 81 % 0.4 cd/lm 1 White | 40 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plat | LH502D Asymmetric 81 % 0.4 cd/lm 1 White e. glass | 409 509 509 509 509 509 509 509 509 509 5 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plat | LH502D Asymmetric 81 % 0.4 cd/lm 1 White e. glass MJT 5050 Asymmetric | 840 840 90 90 10 10 10 10 10 10 10 10 10 1 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plat seoul semiconductor LED FWHM / FWTM Efficiency | LH502D Asymmetric 81 % 0.4 cd/lm 1 White e. glass MJT 5050 Asymmetric 93 % | 840 840 90 90 10 10 10 10 10 10 10 10 10 1 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plat FVHM / FWTM Efficiency Peak intensity | LH502D Asymmetric 81 % 0.4 cd/lm 1 White e. glass MJT 5050 Asymmetric | 840 840 90 90 10 10 10 10 10 10 10 10 10 1 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plat Protective plat SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic | LH502D Asymmetric 81 % 0.4 cd/lm 1 White re. glass MJT 5050 Asymmetric 93 % 0.5 cd/lm | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plat FVHM / FWTM Efficiency Peak intensity | LH502D Asymmetric 81 % 0.4 cd/lm 1 White e. glass MJT 5050 Asymmetric 93 % 0.5 cd/lm 1 | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plat Stoul SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | LH502D Asymmetric 81 % 0.4 cd/lm 1 White e. glass MJT 5050 Asymmetric 93 % 0.5 cd/lm 1 | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plat SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | LH502D Asymmetric 81 % 0.4 cd/lm 1 White e. glass MJT 5050 Asymmetric 93 % 0.5 cd/lm 1 | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plat Protective plat | LH502D Asymmetric 81 % 0.4 cd/lm 1 White e. glass MJT 5050 Asymmetric 93 % 0.5 cd/lm 1 | 22 ³ 09 23 ⁴ |



| SEOUL | | THAT AND |
|--|---|---|
| | | 90* 91 |
| LED FWHM / FWTM | SEOUL DC 5050 6V | 75 |
| Efficiency | Asymmetric 93 % | |
| Peak intensity | 95 % 0.5 cd/lm | 50* 66 |
| | 1 | 30 |
| LEDs/each optic Light colour | White | 5° 40 |
| Required components: | white | 45' |
| required components. | | X 700 X |
| | | 600 |
| | | 700 |
| | | 30* 13 ⁵ 0 ⁶ 15* 3 |
| SEOUL | | THAT HI |
| | | 90* 9 |
| | SEOUL DC 5050 6V | 750 200 78 |
| FWHM / FWTM | Asymmetric 81 % | |
| Efficiency Book intensity | 0.4 cd/lm | -50* |
| Peak intensity LEDs/each optic | 1 | |
| Light colour | White | 30 |
| Required components: | white | 45* |
| required components. | | 400 |
| Protective plate | e, glass | |
| | | \times / \times / \times |
| | | 30* 31 |
| | | 10 000 10 |
| SEOU | | |
| SEOUL SEMICONDUCTOR | 75M2 | 13 00 17 91 9 |
| seoul semiconductor | Z5M3 Asymptetic | 20 00 20 99* 9 75 200 |
| seoul semiconductor LED FWHM / FWTM | Asymmetric | |
| seoul semiconductor LED FWHM / FWTM Efficiency | Asymmetric 81 % | |
| seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity | Asymmetric 81 % 0.5 cd/lm | |
| seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic | Asymmetric 81 % 0.5 cd/lm 1 | |
| seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 81 % 0.5 cd/lm | |
| seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: | Asymmetric 81 % 0.5 cd/lm 1 White | |
| seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 81 % 0.5 cd/lm 1 White | |
| seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: | Asymmetric 81 % 0.5 cd/lm 1 White | |
| SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate | Asymmetric 81 % 0.5 cd/lm 1 White | |
| SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate | Asymmetric 81 % 0.5 cd/lm 1 White | 5 ³⁴ 5 ³⁴ 5 ³⁶ 5 ³⁶ 5 ³⁶ 6 ³⁷ 6 ³⁹ 6 ³⁹ 6 ³⁹ 6 ³⁹ 6 ³⁹ 7 ³⁰ 7 ³⁰ 7 |
| SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate | Asymmetric 81 % 0.5 cd/lm 1 White 9, glass | 5 ³⁴ 5 ³⁴ 5 ³⁶ 5 ³⁶ 5 ³⁶ 6 ³⁷ 6 ³⁹ 6 ³⁹ 6 ³⁹ 6 ³⁹ 6 ³⁹ 7 ³⁰ 7 ³⁰ 7 |
| SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate SEOUL SEMICONDUCTOR LED | Asymmetric 81 % 0.5 cd/lm 1 White 25M4 | 5 ³⁴ 5 ³⁴ 5 ³⁶ 5 ³⁶ 5 ³⁶ 6 ³⁷ 6 ³⁹ 6 ³⁹ 6 ³⁹ 6 ³⁹ 6 ³⁹ 7 ³⁰ 7 ³⁰ 7 |
| seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate seoul semiconductor LED FWHM / FWTM | Asymmetric 81 % 0.5 cd/lm 1 White 25M4 152.0 + 66.0° / 162.0 + 109.0° | 5 ³⁴ 5 ³⁴ 5 ³⁶ 5 ³⁶ 5 ³⁶ 6 ³⁷ 6 ³⁹ 6 ³⁹ 6 ³⁹ 6 ³⁹ 6 ³⁹ 7 ³⁰ 7 ³⁰ 7 |
| seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate seoul semiconductor LED FWHM / FWTM Efficiency | Asymmetric 81 % 0.5 cd/lm 1 White 25M4 152.0 + 66.0° / 162.0 + 109.0° 96 % | 5 ³⁴ 5 ³⁴ 5 ³⁶ 5 ³⁶ 5 ³⁶ 6 ³⁷ 6 ³⁹ 6 ³⁹ 6 ³⁹ 6 ³⁹ 6 ³⁹ 7 ³⁰ 7 ³⁰ 7 |
| seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity | Asymmetric 81 % 0.5 cd/lm 1 White 25M4 152.0 + 66.0° / 162.0 + 109.0° | 5 ³⁴ 5 ³⁴ 5 ³⁶ 5 ³⁶ 5 ³⁶ 6 ³⁷ 6 ³⁹ 6 ³⁹ 6 ³⁹ 6 ³⁹ 6 ³⁹ 7 ³⁰ 7 ³⁰ 7 |
| seoul semiconoucror LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate seoul semiconoucror LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic | Asymmetric 81 % 0.5 cd/lm 1 White p, glass Z5M4 152.0 + 66.0° / 162.0 + 109.0° 96 % 0.8 cd/lm 1 | 5 ³⁴ 5 ³⁴ 5 ³⁶ 5 ³⁶ 5 ³⁶ 6 ³⁷ 6 ³⁹ 6 ³⁹ 6 ³⁹ 6 ³⁹ 6 ³⁹ 7 ³⁰ 7 ³⁰ 7 |
| seoul SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 81 % 0.5 cd/lm 1 White p, glass Z5M4 152.0 + 66.0° / 162.0 + 109.0° 96 % 0.8 cd/lm | 5 ³⁴ 5 ³⁴ 5 ³⁶ 5 ³⁶ 5 ³⁶ 6 ³⁷ 6 ³⁹ 6 ³⁹ 6 ³⁹ 6 ³⁹ 6 ³⁹ 7 ³⁰ 7 ³⁰ 7 |
| seoul semiconoucror LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate seoul semiconoucror LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic | Asymmetric 81 % 0.5 cd/lm 1 White p, glass Z5M4 152.0 + 66.0° / 162.0 + 109.0° 96 % 0.8 cd/lm 1 | 5 ³⁴ 5 ³⁴ 5 ³⁶ 5 ³⁶ 5 ³⁶ 6 ³⁷ 6 ³⁹ 6 ³⁹ 6 ³⁹ 6 ³⁹ 6 ³⁹ 7 ³⁰ 7 ³⁰ 7 |
| seoul SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 81 % 0.5 cd/lm 1 White p, glass Z5M4 152.0 + 66.0° / 162.0 + 109.0° 96 % 0.8 cd/lm 1 | 5 ³⁴ 5 ³⁴ 5 ³⁶ 5 ³⁶ 5 ³⁶ 6 ³⁷ 6 ³⁹ 6 ³⁹ 6 ³⁹ 6 ³⁹ 6 ³⁹ 7 ³⁰ 7 ³⁰ 7 |
| seoul SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 81 % 0.5 cd/lm 1 White p, glass Z5M4 152.0 + 66.0° / 162.0 + 109.0° 96 % 0.8 cd/lm 1 | 5 ³⁴ 5 ³⁴ 5 ³⁶ 5 ³⁶ 5 ³⁶ 6 ³⁷ 6 ³⁹ 6 ³⁹ 6 ³⁹ 6 ³⁹ 6 ³⁹ 7 ³⁰ 7 ³⁰ 7 |



| SEOUL SEMICONDUCTOR | | 80. |
|--|---|-----------------|
| LED | Z5M4 | |
| FWHM / FWTM | 150.0 + 66.0° / 160.0 + 106.0° | 780 |
| Efficiency | 86 % | |
| Peak intensity | 0.6 cd/lm | |
| LEDs/each optic | 1 | |
| Light colour | White | 45* 400 45* |
| Required components | | 500 |
| | | 600 |
| Protective pla | ate, glass | |
| | | 30* 30* |
| | | 15° 80° 15° |
| | | |
| | | Pr |
| SEOUL SEMICONDUCTOR | Z8Y22 | 94° |
| | | 8° |
| seoul semiconductor LED FWHM / FWTM | Z8Y22 Asymmetric 93 % | 39° |
| seoul semiconductor | Asymmetric | 20 ⁴ |
| seoul semiconductor LED FWHM / FWTM Efficiency | Asymmetric 93 % | |
| seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity | Asymmetric 93 % 0.8 cd/lm | |
| seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic | Asymmetric 93 % 0.8 cd/lm 1 White | 40 |
| seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 93 % 0.8 cd/lm 1 White | 40 |
| scoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 93 % 0.8 cd/lm 1 White | 40 |
| stoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 93 % 0.8 cd/lm 1 White | er 60 er |



PRODUCT DATASHEET C16926_STRADA-2X2-LM1

GENERAL INFORMATION:

NOTE: The typical beam angle will be changed by different color, chip size and chip position tolerance. The typical total beam angle is the full angle measured where the luminous intensity is half of the peak value.

MATERIALS:

As part of our continuous research and improvement processes, and to ensure the best possible quality and availability of our products, LEDiL reserves the right to change material grades without notice.

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LEDiL Oy

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