

PRODUCT DATASHEET C15135_STRADA-2X2-T1

STRADA-2X2-T1

Symmetric IESNA Type I (medium) beam for narrow roads and paths with long pole distance and tilted armature

SPECIFICATION:

Dimensions Height Fastening ROHS compliant 50.0 x 50.0 mm 7.8 mm pin, screw yes (i)



MATERIALS:

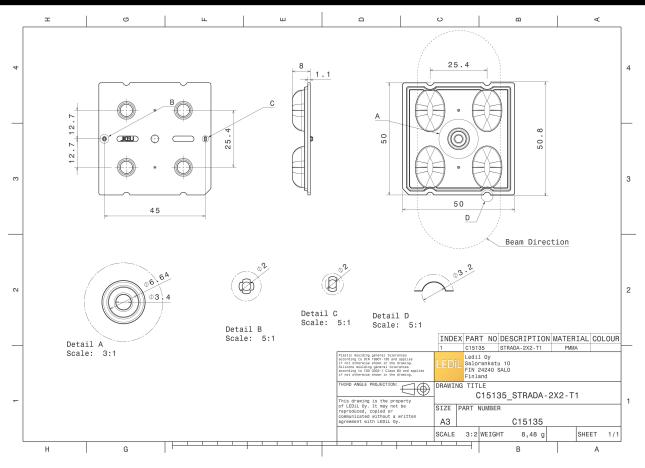
| Component | Туре | Material | Colour | Finish |
|---------------|------------|----------|--------|--------|
| STRADA-2X2-T1 | Multi-lens | PMMA | clear | |

ORDERING INFORMATION:

| Component | Qty in box | MOQ | MPQ | Box weight (kg) |
|--------------------------------|------------|-----|-----|-----------------|
| C15135_STRADA-2X2-T1 | 800 | 160 | 160 | 6.9 |
| » Box size: 480 x 280 x 300 mm | | | | |



PRODUCT DATASHEET C15135_STRADA-2X2-T1



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



| bridgelux. | | I TAY AT I |
|--------------------|---------------------------|--|
| | | 90° 90° |
| LED | Bridgelux SMD 5050 | 200 200 |
| FWHM / FWTM | Asymmetric | |
| Efficiency | 94 % | |
| Peak intensity | 0.9 cd/lm | 50* <u>600</u> 50* |
| LEDs/each optic | 1 | 80 |
| Light colour | White | 45° 1000 45° |
| Required compone | | |
| Required compone | 115. | 120 |
| | | 1430 |
| | | 1600 |
| | | |
| | | 30° 15 ⁵ 1850 15° 30° |
| | | |
| | | 90* 90* |
| LED | J Series 5050C 6V E Class | 776 770 |
| FWHM / FWTM | Asymmetric | 400 |
| Efficiency | 96 % | |
| Peak intensity | 1 cd/lm | |
| LEDs/each optic | 1 | |
| Light colour | White | 45* 1200 45* |
| Required compone | | |
| i toquiroù compono | | |
| | | 1600 |
| | | |
| | | 30* 2000 30* 30* |
| | | |
| | | 90* 90* |
| LED | XD16 | |
| FWHM / FWTM | Asymmetric | 75* 400 75* |
| Efficiency | 94 % | |
| | | 504 504 |
| Peak intensity | 1.1 cd/lm | |
| LEDs/each optic | 4 | |
| Light colour | White | 45* 1200 45* |
| Required compone | nts: | |
| | | 1630 |
| | | |
| | | 2000 |
| | | 10° 10° 10° 30° |
| CREE ≑ | | |
| LEDS | | 90* |
| LED | XD16 | 400 |
| FWHM / FWTM | Asymmetric | |
| Efficiency | 94 % | 50 ⁴ 000 |
| Peak intensity | 1.5 cd/im | 1200 |
| LEDs/each optic | 1 | $ X \times \times $ |
| Light colour | White | 45* 45* |
| Required compone | | 2000 |
| | | |
| | | 2400 |
| | | X |
| | | |
| | | 30* 30* 30* |



| | | 90* 90* |
|--|---|---|
| LED | XM-L3 | 75° 400 75° |
| FWHM / FWTM | Asymmetric | |
| Efficiency | 96 % | 800 |
| Peak intensity | 1.2 cd/lm | |
| LEDs/each optic | 1 | 1200 |
| Light colour | White | 45" |
| Required componer | its: | 1500 |
| | | |
| | | 2000 |
| | | 2430 |
| | | 30 ⁴ 15 ⁵ 0 ⁶ 15 ⁵ 30 ⁴ |
| | | THY KHI |
| | VD C2 | 90* 90* |
| LED | XP-G2 | 75* 400 75* |
| FWHM / FWTM | Asymmetric | |
| Efficiency | 94 % | 60% |
| Peak intensity | 1.5 cd/lm | X |
| LEDs/each optic | 1 | $X \times I \times X$ |
| Light colour | White | 45° 45' |
| Required componer | its: | 2000 |
| | | |
| | | 2430 |
| | | 2009 |
| | | 30° 15° 30° |
| CREE ≑ | | THA FFT |
| - FDe | | |
| LEDS | | 90* 90* |
| LED | XP-G3 | 50* 50* 25- 400 70* |
| LED FWHM / FWTM | Asymmetric | |
| LED FWHM / FWTM Efficiency | Asymmetric 94 % | |
| LED FWHM / FWTM Efficiency Peak intensity | Asymmetric 94 % 1.3 cd/lm | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic | Asymmetric 94 % 1.3 cd/Im 1 | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 94 % 1.3 cd/lm 1 White | 32 - 40 - 72 67 - 60 - 60 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic | Asymmetric 94 % 1.3 cd/lm 1 White | 23° 66 73° 67 56 67 1233 67 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 94 % 1.3 cd/lm 1 White | 23° 66 73° 67 56 67 1233 67 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 94 % 1.3 cd/lm 1 White | 23° 66 73° 67 56 67 1233 67 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 94 % 1.3 cd/lm 1 White | 173 ⁻ 469 775 60 ⁻ 60 ⁻ 60 ⁻ 60 ⁻ |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer | Asymmetric 94 % 1.3 cd/lm 1 White | 23° 66 73° 67 56 67 1233 67 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer | Asymmetric 94 % 1.3 cd/lm 1 White | 173 ⁻ 469 775 60 ⁻ 60 ⁻ 60 ⁻ 60 ⁻ |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer | Asymmetric 94 % 1.3 cd/lm 1 White tts: | 173 ¹ 469 772 60 ² 609 60 11732 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer | Asymmetric 94 % 1.3 cd/lm 1 White hts: | 27- 600 77- 607 600 607 11:20 607 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer | Asymmetric 94 % 1.3 cd/lm 1 White hts: XP-L HD Asymmetric | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer CREE LED FWHM / FWTM Efficiency | Asymmetric 94 % 1.3 cd/lm 1 White Its: XP-L HD Asymmetric 94 % | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer Required componer LED FWHM / FWTM Efficiency Peak intensity | Asymmetric 94 % 1.3 cd/lm 1 White tts: XP-L HD Asymmetric 94 % 1.2 cd/lm | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer Required componer EED FWHM / FWTM Efficiency Peak intensity LEDs/each optic | Asymmetric 94 % 1.3 cd/lm 1 White tts: XP-L HD Asymmetric 94 % 1.2 cd/lm 1 | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer Required componer EED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 94 % 1.3 cd/lm 1 White tts: XP-L HD Asymmetric 94 % 1.2 cd/lm 1 White | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer Required componer EED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 94 % 1.3 cd/lm 1 White tts: XP-L HD Asymmetric 94 % 1.2 cd/lm 1 White | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer Required componer EED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 94 % 1.3 cd/lm 1 White tts: XP-L HD Asymmetric 94 % 1.2 cd/lm 1 White | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer Required componer EED FWHM / FWTM Efficiency Peak intensity LEDs/each optic | Asymmetric 94 % 1.3 cd/lm 1 White tts: XP-L HD Asymmetric 94 % 1.2 cd/lm 1 White | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer Required componer EED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 94 % 1.3 cd/lm 1 White tts: XP-L HD Asymmetric 94 % 1.2 cd/lm 1 White | |



| LED | XP-L HI | 10°- |
|--|---|---|
| FWHM / FWTM | Asymmetric | 73* 400 7** |
| Efficiency | 94 % | |
| Peak intensity | 1.4 cd/lm | . 60° 60°. |
| | | X 1200 X |
| LEDs/each optic Light colour | 1 White | |
| Required compone | | 6' |
| Required component | 15. | 200 |
| | | 2490 |
| | | |
| | | 30° 2800 30° 30° |
| | | |
| LED | XP-L2 | 90" 90" |
| FWHM / FWTM | AP-L2 Asymmetric | 200 |
| Efficiency | 94 % | 40 |
| Peak intensity | 1 cd/lm | .60° 60° |
| LEDs/each optic | 1 | |
| Light colour | White | 1000 |
| Required component | | 1200 CT |
| Required component | no. | 3830 |
| | | 1630 |
| | | 1850 |
| | | 30 ⁺ 15 ³ 2000 30 ⁺ 30 ⁺ |
| UMIL | EDS | 90° |
| LED | LUXEON 5050 Round LES | 200 |
| FWHM / FWTM | Asymmetric | 75* 400 75* |
| Efficiency | 94 % | |
| Peak intensity | 1 cd/lm | 60 ⁴ 60 ⁴ |
| LEDs/each optic | 1 | |
| Light colour | White | 6° / T / 6° |
| Required compone | its: | 1200 |
| | | 1830 |
| | | 1500 |
| | | 1800 |
| | | 30° 15° 30° |
| 🥙 LUMIL | EDS | 90° 90° |
| LED | LUXEON V | |
| 1 | | |
| | | 73* 400 74* |
| FWHM / FWTM | Asymmetric | 400 |
| FWHM / FWTM Efficiency | Asymmetric 94 % | 60 ⁴ 60 ⁴ |
| FWHM / FWTM Efficiency Peak intensity | Asymmetric | 50 50 60 60 |
| FWHM / FWTM Efficiency Peak intensity LEDs/each optic | Asymmetric 94 % 1.1 cd/lm 1 | |
| FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 94 % 1.1 cd/lm 1 White | 23 - 40 - 74 01 - 60 - 67 - 123 - 77 - |
| FWHM / FWTM Efficiency Peak intensity LEDs/each optic | Asymmetric 94 % 1.1 cd/lm 1 White | 20 40 70 00 60 60 60 60 60 60 60 60 60 |
| FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 94 % 1.1 cd/lm 1 White | 20 40 70 60 60 60 10 10 10 10 10 10 10 10 10 10 10 10 10 |
| FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 94 % 1.1 cd/lm 1 White | 20 40 70 01 00 00 05 00 00 100 100 100 100 100 100 10 |



| 🤭 LUMILI | EDS | |
|--|---|--|
| LED | LUXEON V2 | |
| FWHM / FWTM | Asymmetric | 75° 400 70' |
| Efficiency | 94 % | 800 |
| - | 1.4 cd/im | .50 ⁴ |
| LEDs/each optic | 1 | 120 |
| Light colour | White | 45* 1600 45* |
| Required componen | | |
| | | 2000 |
| | | 2400 |
| | | |
| | | 20° 2200 30° 30° 30° |
| MST Your solution | 75 | |
| LED | RecLED 122x50mm 1900lm 730 2x4 Opt G1 | |
| FWHM / FWTM | Asymmetric | 75* 400 75 |
| Efficiency | 97 % | 800 |
| Peak intensity | 1.4 cd/im | 60* 60* |
| LEDs/each optic | 1 | 1220 |
| Light colour | White | 45* 1600 45* |
| Required componen | | |
| | | 2000 |
| | | 2430 |
| | | |
| | | 13° 2200 15° 30° |
| Μ ΝΙCΗΙΛ | | 90* 90* |
| LED | NVSW219D | 0 |
| FWHM / FWTM | Asymmetric | 75* 400 75* |
| F (1): | 94 % | |
| Efficiency | 54 70 | 800 |
| | 1.3 cd/lm | .50* 800 60* |
| | | 60° (67 1739 |
| Peak intensity | 1.3 cd/lm | 60° 60° 1739 6° 100 6° |
| Peak intensity LEDs/each optic | 1.3 cd/lm 1 White | \vee \times / T \setminus \times \vee |
| Peak intensity LEDs/each optic Light colour | 1.3 cd/lm 1 White | \vee \times / T \setminus \times \vee |
| Peak intensity LEDs/each optic Light colour | 1.3 cd/lm 1 White | \vee \times / T \setminus \times \vee |
| Peak intensity LEDs/each optic Light colour | 1.3 cd/lm 1 White | \vee \times / T \setminus \times \vee |
| Peak intensity LEDs/each optic Light colour Required componen | 1.3 cd/lm 1 White | e ⁶ 109 e ⁵ |
| Peak intensity LEDs/each optic Light colour Required componen | 1.3 cd/lm 1 White ts: | e ⁶ 109 e ⁵ |
| Peak intensity LEDs/each optic Light colour Required componen | 1.3 cd/lm 1 White Is: NVSW319B | e ⁶ 109 e ⁵ |
| Peak intensity LEDs/each optic Light colour Required componen | 1.3 cd/lm 1 White ts: NVSW319B Asymmetric | 40° 109 40° 200 200 30° 12 ⁴ 0° 12° 30° |
| Peak intensity LEDs/each optic Light colour Required componen | 1.3 cd/lm 1 White ts: NVSW319B Asymmetric 94 % | 40° 109 40° 200 200 30° 12 ⁴ 0° 12° 30° |
| Peak intensity LEDs/each optic Light colour Required componen | 1.3 cd/lm 1 White ts: NVSW319B Asymmetric 94 % 1.3 cd/lm | 40 1299 407 2099 2099 209 2099 209 2099 209 209 209 200 209 200 200 |
| Peak intensity LEDs/each optic Light colour Required componen WICHIA LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic | 1.3 cd/lm 1 White ts: NVSW319B Asymmetric 94 % 1.3 cd/lm 1 | 20. 20.0 20.0 20.0 20.0 20.0 20.0 20.0 0.0 |
| Peak intensity LEDs/each optic Light colour Required componen WICHIA LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | 1.3 cd/lm 1 White ts: NVSW319B Asymmetric 94 % 1.3 cd/lm 1 White | 40 1299 407 2099 2099 209 2099 209 2099 209 209 209 200 209 200 200 |
| Peak intensity LEDs/each optic Light colour Required componen WICHIA LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | 1.3 cd/lm 1 White ts: NVSW319B Asymmetric 94 % 1.3 cd/lm 1 White | 40 129 40 40 1 209 209 209 209 209 209 209 209 209 209 |
| Peak intensity LEDs/each optic Light colour Required componen | 1.3 cd/lm 1 White ts: NVSW319B Asymmetric 94 % 1.3 cd/lm 1 White | 40 129 40 40 1 209 209 209 209 209 209 209 209 209 209 |
| Peak intensity LEDs/each optic Light colour Required componen WICHIA LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | 1.3 cd/lm 1 White ts: NVSW319B Asymmetric 94 % 1.3 cd/lm 1 White | 40 129 40 40 1 209 209 209 209 209 209 209 209 209 209 |



| ØNICHI | | 50° |
|--------------------|-----------------------|---|
| LED | NVSW3x9A | |
| FWHM / FWTM | Asymmetric | 73* 600 75* |
| Efficiency | 94 % | |
| Peak intensity | 1.3 cd/lm | 60* <u>80</u> 60* |
| LEDs/each optic | 1 | 1230 |
| Light colour | White | |
| Required component | | 1500 |
| | | |
| | | |
| | | 2400 |
| | | 30° 15° 0° 15° 30° |
| ØNICHIA | | 84 |
| LED | NVSxE21A | 400 |
| FWHM / FWTM | Asymmetric | 121 772 |
| Efficiency | 94 % | |
| Peak intensity | 2.1 cd/lm | 60 ⁴ 1220 60 ⁴ |
| LEDs/each optic | 1 | 1000 |
| Light colour | White | 45" 2000 45" |
| Required component | | 200 |
| | | 2000 |
| | | 300 |
| | | *** |
| | | 30° 30° 30° |
| ØNICHIA | | 50° - 50° |
| LED | NVSxx19B/NVSxx19C | |
| FWHM / FWTM | Asymmetric | 751 400 751. |
| Efficiency | 94 % | 90 |
| Peak intensity | 1.4 cd/lm | 60 ⁴ itte |
| LEDs/each optic | 1 | |
| Light colour | White | 45* <u>1000</u> 45* |
| Required compone | nts: | 2000 |
| | | |
| | | 200 |
| | | 200 200 |
| 00044 | | |
| OSRAM | | 99° 99° |
| LED | PrevaLED Brick HP 2x8 | |
| FWHM / FWTM | Asymmetric | 251 400 /51 |
| Efficiency | 94 % | |
| Peak intensity | 1.4 cd/lm | 60° 60°. |
| LEDs/each optic | 1 | |
| | | 1600 |
| Light colour | White | 43° 43° |
| | | o |
| Light colour | | 6 ¹ 8 ¹⁰ 6 ¹ |
| Light colour | | et 200 200 300 |
| Light colour | | |



| [| | |
|--|--|--|
| OSRAM Opto Semiconductors | | |
| LED | Duris S8 | ~ ~ ~ ~ |
| FWHM / FWTM | Asymmetric | 751 200 79. |
| Efficiency | 96 % | 440 |
| Peak intensity | 0.9 cd/lm | 60° 600 50° |
| LEDs/each optic | 1 | |
| Light colour | White | 57 1000 57 |
| Required compone | | 1200 |
| | | |
| | | 3450 |
| | | 1000 |
| | | 30° 1050 10° 30° |
| OSRAM Opto Semiconductors | | 80° 90° |
| LED | OSLON Square CSSRM2/CSSRM3 | |
| FWHM / FWTM | Asymmetric | 23 400 75. |
| Efficiency | 94 % | |
| Peak intensity | 1.4 cd/lm | 60 ⁴ 60 ⁴ |
| LEDs/each optic | 1 | |
| Light colour | White | 65° 1600 65° |
| Required compone | nts: | |
| | | |
| | | 2450 |
| | | 200 |
| | | 15 ⁵ 0 ⁶ 15 ⁵ |
| OSRAM | | THY YHT |
| OSRAM Opto Semiconductors | | 50° |
| Opto Semiconductors | OSLON Square PC | 25 - 40 - 5° |
| opto Semiconductors LED FWHM / FWTM | Asymmetric | 32. |
| opto Semiconductors LED FWHM / FWTM Efficiency | Asymmetric 94 % | |
| opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity | Asymmetric 94 % 1.6 cd/lm | 324 |
| ^{opto Semiconductors} LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic | Asymmetric 94 % 1.6 cd/lm 1 | |
| opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 94 % 1.6 cd/lm 1 White | |
| ^{opto Semiconductors} LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic | Asymmetric 94 % 1.6 cd/lm 1 White | |
| opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 94 % 1.6 cd/lm 1 White | 23 00 10 10 10 10 10 10 10 10 10 |
| opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 94 % 1.6 cd/lm 1 White | 23 00 10 10 10 10 10 10 10 10 10 |
| opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 94 % 1.6 cd/lm 1 White | 23 00 10 10 10 10 10 10 10 10 10 |
| opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone | Asymmetric 94 % 1.6 cd/lm 1 White | 292 001 1120 11 |
| opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone | Asymmetric 94 % 1.6 cd/lm 1 White nts: | 292 001 1120 11 |
| opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone | Asymmetric 94 % 1.6 cd/lm 1 White nts: S Fortimo FastFlex LED 2x8 DA G4 | 73° 00 127 127 127 127 127 127 127 127 |
| opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone PHILLEP LED FWHM / FWTM | Asymmetric 94 % 1.6 cd/lm 1 White nts: S Fortimo FastFlex LED 2x8 DA G4 Asymmetric | 292 001 1120 11 |
| opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone PHILLED FWHM / FWTM Efficiency | Asymmetric 94 % 1.6 cd/lm 1 White nts: S Fortimo FastFlex LED 2x8 DA G4 Asymmetric 94 % | |
| opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone PHILLED FWHM / FWTM Efficiency Peak intensity | Asymmetric 94 % 1.6 cd/lm 1 White nts: S Fortimo FastFlex LED 2x8 DA G4 Asymmetric | |
| opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone PHILLE FWHM / FWTM Efficiency Peak intensity LEDs/each optic | Asymmetric 94 % 1.6 cd/lm 1 White I S Fortimo FastFlex LED 2x8 DA G4 Asymmetric 94 % 1.4 cd/lm 1 | |
| opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone PHILLE FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 94 % 1.6 cd/lm 1 White I S Fortimo FastFlex LED 2x8 DA G4 Asymmetric 94 % 1.4 cd/lm 1 White | |
| opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone PHILLE FWHM / FWTM Efficiency Peak intensity LEDs/each optic | Asymmetric 94 % 1.6 cd/lm 1 White I S Fortimo FastFlex LED 2x8 DA G4 Asymmetric 94 % 1.4 cd/lm 1 White | |
| opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone PHILLE FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 94 % 1.6 cd/lm 1 White I S Fortimo FastFlex LED 2x8 DA G4 Asymmetric 94 % 1.4 cd/lm 1 White | |
| opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 94 % 1.6 cd/lm 1 White I S Fortimo FastFlex LED 2x8 DA G4 Asymmetric 94 % 1.4 cd/lm 1 White | |



| PHILIF | S | 90° |
|--|--|---|
| LED | Fortimo FastFlex LED 2x8 DA G4+ | 0 |
| FWHM / FWTM | Asymmetric | 230 400 7 |
| Efficiency | 97 % | |
| Peak intensity | 1.2 cd/lm | AO ⁴ |
| LEDs/each optic | 1 | 1200 |
| Light colour | White | 40° |
| Required compone | nts: | 1630 |
| | | |
| | | |
| | | 30* 2450 0* 10 ⁵ 0* 10* |
| PHILIF | | |
| | | 90* |
| LED | Fortimo FastFlex LED 2x8 DA G5 | 400 |
| FWHM / FWTM | Asymmetric | |
| Efficiency | 97 % | . 60 ⁶ |
| Peak intensity | 1.4 cd/lm | 1200 |
| LEDs/each optic | 1 | $X \times (T \setminus X)$ |
| Light colour | White | 45* 1690 |
| Required compone | nts: | 2000 |
| | | |
| | | 2420 |
| | | 30° 2500 15° |
| SAMSI | ING | |
| | | 90° |
| LED | HiLOM RC12 Z (LH181B) | 75* 400 |
| FWHM / FWTM | Asymmetric | |
| Efficiency | 96 % | 50% |
| Peak intensity | 1.8 cd/lm | 1600 |
| LEDs/each optic | 1 White | 2000 |
| Light colour | | |
| Light colour | | 45 |
| Required compone | | -61 - 200 |
| | | 45 |
| | | -67 |
| | | -07 |
| Required compone | nts: | 5° 300 200 |
| Required compone | nts: JNG | |
| Required compone | nts: JNG HiLOM RH12 Z (LH351C) | |
| Required compone | nts: JNG HiLOM RH12 Z (LH351C) Asymmetric | 5 200 200 200 200 200 200 200 20 |
| Required compone SAMSI LED FWHM / FWTM Efficiency | nts: JNG HiLOM RH12 Z (LH351C) Asymmetric 97 % | 5° 300 200 |
| Required compone SAMSI LED FWHM / FWTM Efficiency Peak intensity | nts: JNG HiLOM RH12 Z (LH351C) Asymmetric 97 % 1.4 cd/lm | 5 209 209 209 209 209 209 209 209 |
| Required compone SAMSI LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic | nts: JNG HiLOM RH12 Z (LH351C) Asymmetric 97 % 1.4 cd/lm 1 | 5 ¹ 200 200 200 200 200 200 200 200 200 20 |
| Required compone SAMS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | nts: JNG HiLOM RH12 Z (LH351C) Asymmetric 97 % 1.4 cd/lm 1 White | 5 309 309 309 309 309 309 309 309 |
| Required compone SAMS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic | nts: JNG HiLOM RH12 Z (LH351C) Asymmetric 97 % 1.4 cd/lm 1 White | |
| Required compone SAMS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | nts: JNG HiLOM RH12 Z (LH351C) Asymmetric 97 % 1.4 cd/lm 1 White | |
| Required compone SAMS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | nts: JNG HiLOM RH12 Z (LH351C) Asymmetric 97 % 1.4 cd/lm 1 White | |



| SAMSI | ING | |
|--------------------|------------------------------------|--|
| LED | HiLOM RH16 (LH351C) | 907 9 |
| FWHM / FWTM | Asymmetric | 201 400 |
| Efficiency | 94 % | |
| Peak intensity | 1.4 cd/lm | .60* |
| LEDs/each optic | 1 | 120 |
| Light colour | White | 100 |
| Required compone | | .er 1090 |
| rtequirea compone | 41G. | |
| | | 24,00 |
| | | |
| | | 20° 2000 15° |
| SVWSI | ING | |
| LED | HiLOM RM12 Z (LH502C) | 39° |
| FWHM / FWTM | Asymmetric | 75 200 |
| Efficiency | 97 % | 400 |
| Peak intensity | 0.9 cd/lm | 50° 660 |
| LEDs/each optic | 1 | |
| Light colour | White | 200 |
| Required compone | | 1270 |
| rtoquilou oompone | | 100 |
| | | 100 |
| | | |
| | | 30* 15 ⁵ 0 ⁶ 15 ⁴ 3 |
| SVWSI | ING | |
| LED | HiLOM RM16 Z (LH502C) | |
| FWHM / FWTM | Asymmetric | 20 200 |
| Efficiency | 99 % | 40 |
| Peak intensity | 0.9 cd/lm | 60° 600 |
| LEDs/each optic | 1 | 80 |
| Light colour | White | 57 1000 |
| Required compone | | 100 |
| | | 3430 |
| | | 1679 |
| | | 1830 |
| | | 100° 45° 0° 13° 3 |
| SAMSI | ING | |
| | | 99* |
| LED FWHM / FWTM | HiLOM RM8 Z (LH502C) Asymmetric | 759 200 |
| Efficiency | 98 % | 400 |
| Peak intensity | 96 % 0.9 cd/lm | 61° 500 |
| LEDs/each optic | 0.9 ca/im 1 | 800 |
| Light colour | ı White | |
| | | .6* |
| | A113. | |
| | | 1400 |
| Required compone | | |
| | | 109 |



| <u> </u> | ING | |
|--|---|--|
| LED | LH351B | 90* 90* |
| FWHM / FWTM | Asymmetric | 75* 400 75 |
| Efficiency | 94 % | |
| Peak intensity | 1.3 cd/lm | 504 504 |
| LEDs/each optic | 1 | 1220 |
| Light colour | White | 45* 1000 45* |
| Required compone | its: | XIX |
| | | 2020 |
| | | 2110 |
| | | 30° 25° 260 25° 30° |
| | | |
| LED | LED-Pa-L15c2W11c2-xxx-C050-01 | |
| FWHM / FWTM | Asymmetric | 75° 400 75° |
| Efficiency | 98 % | |
| Peak intensity | 1.5 cd/lm | 60 ⁴ 60 ⁴ |
| LEDs/each optic | 1 | 1600 |
| Light colour | White | 15. Jacob |
| Required compone | its: | 2000 |
| | | 2430 |
| | | 200 |
| | | 30° 15° 0° 30° 30° |
| SEOUL | | THY FFT |
| SEOUL SEMICONDUCTOR | Z5M3 | 90* 90* |
| FWHM / FWTM | Asymmetric | 75* 400 75* |
| Efficiency | 94 % | |
| Peak intensity | 1.3 cd/lm | 103 000 100 100 100 |
| LEDs/each optic | 1 | 1220 |
| Light colour | White | 45* |
| Required compone | its: | 1600 |
| | | 2000 |
| | | |
| | | 2400 |
| | | 30* 15 ⁴ 0 ⁶ 15* 30* |
| SEQU | | 20 ¹ 20 ¹ 0 ¹ 10 ¹ 30 ¹ |
| SEOUL SEMICONDUCTOR | 78¥22 | 20 ¹⁰ 20 ¹⁰ 0 ¹⁰ 20 ¹⁰ 20 ¹⁰ |
| SEOUL SEMICONDUCTOR | Z8Y22 Asymmetric | 20 ⁴ 20 ⁴ 20 ⁴ 20 ⁴ 20 ⁴ 20 ⁴ |
| seoul semiconductor LED FWHM / FWTM | Asymmetric | 20 ¹⁰ 0 ¹⁰ 10 ¹⁰ 20 20 ¹⁰ 0 ¹⁰ 10 ¹⁰ 20 20 ¹⁰ 0 ¹⁰ 20 20 ¹⁰ 20 ¹⁰ 20 20 ¹⁰ 20 |
| seoul semiconductor LED FWHM / FWTM Efficiency | Asymmetric 94 % | 20 ¹⁰ 20 ¹⁰ 0 ¹⁰ 10 ¹⁰ 20 20 ¹⁰ 0 ¹⁰ 10 ¹⁰ 20 20 ¹⁰ 0 ¹⁰ 0 ¹⁰ 20 20 ¹⁰ 0 ¹⁰ |
| seoul semiconductor LED FWHM / FWTM | Asymmetric | 205 |
| scoul semiconductor LED FWHM / FWTM Efficiency Peak intensity | Asymmetric 94 % 1.6 cd/lm | 50° (60) |
| seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic | Asymmetric 94 % 1.6 cd/lm 1 White | 50* |
| seou. semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 94 % 1.6 cd/lm 1 White | 6° (6) 100 (6) 6° (7) |
| stoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 94 % 1.6 cd/lm 1 White | 6° 120 60 100 60 |



| | Y FFI. |
|--|---|
| seoul semiconductor LED Z8Y22P | 90* |
| FWHM / FWTM Asymmetric | 400 75" |
| Efficiency 94 % | X/IIXX |
| Peak intensity 1.3 cd/lm | 800 600 |
| LEDs/each optic 1 | 1200 |
| | |
| Light colour White Required components: | 1600 45* |
| | |
| | 2000 |
| | 2430 |
| 30* | 0° 15° 30° |
| TRIDONIC | |
| TRIDONIC | |
| LED RLE 2x4 2000lm HP EXC2 OTD | |
| FWHM / FWTM Asymmetric | |
| Efficiency 94 % | |
| Peak intensity 1.5 cd/lm | |
| LEDs/each optic 1 | |
| Light colour White | |
| Required components: | |
| | |
| | |
| | |
| | |
| TRIDONIC | |
| | |
| LED RLE 2x8 4000lm HP EXC2 OTD | 0 |
| LED RLE 2x8 4000lm HP EXC2 OTD FWHM / FWTM Asymmetric | 40 40 50 |
| LED RLE 2x8 4000Im HP EXC2 OTD FWHM / FWTM Asymmetric Efficiency 94 % | X/IIXX |
| LED RLE 2x8 4000Im HP EXC2 OTD FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 1.5 cd/lm | X/IIXX |
| LED RLE 2x8 4000Im HP EXC2 OTD FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 1.5 cd/lm LEDs/each optic 1 | |
| LED RLE 2x8 4000Im HP EXC2 OTD FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 1.5 cd/lm LEDs/each optic 1 Light colour White | - 50 - 127 - 127 |
| LED RLE 2x8 4000Im HP EXC2 OTD FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 1.5 cd/lm LEDs/each optic 1 | - 50 - 127 - 127 |
| LED RLE 2x8 4000Im HP EXC2 OTD FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 1.5 cd/lm LEDs/each optic 1 Light colour White | - 50 - 127 - 127 |
| LED RLE 2x8 4000Im HP EXC2 OTD FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 1.5 cd/lm LEDs/each optic 1 Light colour White | - 50 - 127 - 127 |
| LED RLE 2x8 4000Im HP EXC2 OTD FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 1.5 cd/lm LEDs/each optic 1 Light colour White | - 50 - 127 - 127 |
| LED RLE 2x8 4000Im HP EXC2 OTD FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 1.5 cd/Im LEDs/each optic 1 Light colour White Required components: | 90 159 159 299 299 299 |
| LED RLE 2x8 4000lm HP EXC2 OTD FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 1.5 cd/lm LEDs/each optic 1 Light colour White Required components Image: Component State S | 90 159 159 299 299 299 |
| LED RLE 2x8 4000lm HP EXC2 OTD FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 1.5 cd/lm LEDs/each optic 1 Light colour White Required components ************************************ | 00 1179 159 299 299 299 |
| LED RLE 2x8 4000lm HP EXC2 OTD FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 1.5 cd/lm LEDs/each optic 1 Light colour White Required components Image: Component State S | 90 159 159 209 209 209 209 209 209 209 209 209 20 |
| LED RLE 2x8 4000lm HP EXC2 OTD FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 1.5 cd/lm LEDs/each optic 1 Light colour White Required components View FRIDONIC LED RLE G1 49x121mm 2000lm xxx EXC OTD FWHM / FWTM Asymmetric Efficiency 94 % | 90 159 159 209 209 209 209 209 209 209 209 209 20 |
| LED RLE 2x8 4000lm HP EXC2 OTD FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 1.5 cd/lm LEDs/each optic 1 Light colour White Required components Vinite Required components Image: Component of the symmetric symm | |
| LED RLE 2x8 4000lm HP EXC2 OTD FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 1.5 cd/lm LEDs/each optic 1 Light colour White Required component ************************************ | |
| LED RLE 2x8 4000lm HP EXC2 OTD FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 1.5 cd/lm LEDs/each optic 1 Light colour White Required components Image: Component State S | |
| LED RLE 2x8 4000lm HP EXC2 OTD FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 1.5 cd/lm LEDs/each optic 1 Light colour White Required component ************************************ | |
| LED RLE 2x8 4000lm HP EXC2 OTD FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 1.5 cd/lm LEDs/each optic 1 Light colour White Required components ************************************ | |
| LED RLE 2x8 4000lm HP EXC2 OTD FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 1.5 cd/lm LEDs/each optic 1 Light colour White Required components Vinite Required components RLE G1 49x121mm 2000lm xxx EXC OTD FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 1.4 cd/lm LEDs/each optic 1 Light colour White | |



| TRIDON | 1IC | 87 |
|------------------|------------------------------------|---|
| LED | RLE G1 49x133mm 2000lm xxx EXC OTD | |
| FWHM / FWTM | Asymmetric | 70 |
| Efficiency | 94 % | 60 ⁴ |
| Peak intensity | 1.4 cd/lm | 2007 |
| LEDs/each optic | 1 | 239 |
| Light colour | White | 45° 2200 |
| Required compone | nts: | 80° 50° 50° 50° 50° 50° 50° 50° 50° 50° 5 |
| TRIDOM | lic | 87 |
| LED | RLE G1 49x223mm 4000lm xxx EXC OTD | |
| FWHM / FWTM | Asymmetric | 751 200 |
| Efficiency | 94 % | 1500 |
| Peak intensity | 1.4 cd/lm | 605 |
| LEDs/each optic | 1 | 200 |
| Light colour | White | |
| Required compone | nts: | 80° 50° 6° 25° |
| TRIDON | | 99' |
| LED | RLE G1 49x245mm 4000lm xxx EXC OTD | |
| FWHM / FWTM | Asymmetric | 351 |
| Efficiency | 94 % | 100 |
| Peak intensity | 1.4 cd/lm | 200 |
| LEDs/each optic | 1 | |
| Light colour | White | 6* 200 |
| Required compone | nts: | 679 679 679 |



| [| | |
|---|---|---|
| CREE ≑ | | |
| LEDS | J Series 5050C 6V E Class | 90" 90" |
| FWHM / FWTM | Asymmetric | 73* 200 75* |
| Efficiency | 80 % | |
| | 0.7 cd/lm | 50 ⁴ 400 50* |
| Peak intensity | | |
| LEDs/each optic | 1 | $\times \times / \wedge \times \times$ |
| Light colour | White | -65* 000 65* |
| Required components: | | 1000 |
| Protective plate | e, glass | |
| | | 1230 |
| | | 30* <u>15</u> ⁵ <u>19</u> 20 <u>15</u> * 30* |
| | | |
| LED | MHB-A/B | |
| FWHM / FWTM | Asymmetric | 200 75° |
| Efficiency | 94 % | 400 |
| Peak intensity | 0.7 cd/lm | 60 ⁴ |
| LEDs/each optic | 1 | |
| Light colour | White | |
| Required components: | White | 40° |
| | | 1000 |
| | | 1200 |
| | | 100 |
| | | 30* 30* |
| | | 1400 30* 30* 30* |
| | | 20° 10° 10° 10° 10° 10° 10° 10° 10° 10° 1 |
| CREE ÷ | XP-G2 | 90° 90° |
| LED | XP-G2 Asymmetric | 12 ¹ |
| LED FWHM / FWTM | Asymmetric | 30 ² 91 ² |
| LED FWHM / FWTM Efficiency | Asymmetric 77 % | 30° |
| LED FWHM / FWTM Efficiency Peak intensity | Asymmetric 77 % 0.8 cd/lm | 90° 90° 73° 60 60° 00° |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic | Asymmetric 77 % 0.8 cd/lm 1 | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 77 % 0.8 cd/lm | 200 pr 75° 200 75° 60° 60° 60°. |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic | Asymmetric 77 % 0.8 cd/lm 1 | 94* 94 73* 200 73* 86* 860 80 80* 800 80 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 77 % 0.8 cd/lm 1 White | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: | Asymmetric 77 % 0.8 cd/lm 1 White | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate | Asymmetric 77 % 0.8 cd/lm 1 White | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: | Asymmetric 77 % 0.8 cd/lm 1 White | 90* 73* 60 60* 60* 60* 60* 60* 60* 60* |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate | Asymmetric 77 % 0.8 cd/lm 1 White | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate | Asymmetric 77 % 0.8 cd/lm 1 White | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate | Asymmetric 77 % 0.8 cd/lm 1 White P, glass XP-G2 HE | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate | Asymmetric 77 % 0.8 cd/lm 1 White P, glass XP-G2 HE Asymmetric | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate | Asymmetric 77 % 0.8 cd/m 1 White P, glass XP-G2 HE Asymmetric 95 % | |
| 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 | Asymmetric 77 % 0.8 cd/lm 1 White P, glass XP-G2 HE Asymmetric 95 % 1 cd/lm | |
| 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 | Asymmetric 77 % 0.8 cd/lm 1 White P, glass XP-G2 HE Asymmetric 95 % 1 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 | Asymmetric 77 % 0.8 cd/lm 1 White P, glass XP-G2 HE Asymmetric 95 % 1 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 | Asymmetric 77 % 0.8 cd/lm 1 White P, glass XP-G2 HE Asymmetric 95 % 1 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 | Asymmetric 77 % 0.8 cd/lm 1 White P, glass XP-G2 HE Asymmetric 95 % 1 cd/lm 1 | |



| CREE ÷ | | |
|--|--|---|
| LEDs | XP-G3 | ×. |
| FWHM / FWTM | Asymmetric | 75 200 |
| Efficiency | 74 % | |
| Peak intensity | 0.7 cd/lm | |
| | | |
| LEDs/each optic | 1 | × × |
| Light colour Required components: | White | -6° |
| Required components: | | 100 |
| Protective plate | , glass | 1200 |
| | | 1640 |
| | | 130° 13 ⁵ 0° 15° 3 |
| | | 92* |
| LED | XP-G3 | 2 |
| FWHM / FWTM | Asymmetric | 751 200 |
| Efficiency | 77 % | |
| Peak intensity | 0.7 cd/lm | |
| LEDs/each optic | 1 | 80 |
| Light colour | White | 45* 200 |
| Required components: | | |
| | | 1000 |
| Protective plate | , glass | 1230 |
| | | |
| | | 30 [°] 15 [°] 15 [°] 15 [°] 15 [°] |
| | | 50° |
| LED | XP-G4 | |
| FWHM / FWTM | Asymmetric | 750 400 77 |
| Efficiency | 94 % | |
| | | AN ⁴ |
| Peak intensity | 1.2 cd/lm | |
| | 1.2 cd/lm 1 | |
| LEDs/each optic | | |
| Peak intensity LEDs/each optic Light colour Required components: | 1 | |
| LEDs/each optic Light colour | 1 | |
| LEDs/each optic Light colour | 1 | |
| LEDs/each optic Light colour | 1 | |
| LEDs/each optic Light colour Required components: | 1 | |
| LEDs/each optic Light colour Required components: | 1 | |
| LEDs/each optic Light colour Required components: | 1 White | |
| LEDs/each optic Light colour Required components: | 1 White XP-G4 | |
| LEDs/each optic Light colour Required components: | 1 White XP-G4 Asymmetric | |
| LEDs/each optic Light colour Required components: | 1 White XP-G4 Asymmetric 81 % | |
| LEDs/each optic Light colour Required components: CREE ED FWHM / FWTM Efficiency Peak intensity | 1 White XP-G4 Asymmetric | |
| LEDs/each optic Light colour Required components: CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic | 1 White XP-G4 Asymmetric 81 % 0.9 cd/lm 1 | |
| LEDs/each optic Light colour Required components: CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | 1 White XP-G4 Asymmetric 81 % 0.9 cd/lm | |
| LEDs/each optic Light colour Required components: CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic | 1 White XP-G4 Asymmetric 81 % 0.9 cd/lm 1 | |
| LEDs/each optic Light colour Required components: CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | 1 White XP-G4 Asymmetric 81 % 0.9 cd/lm 1 White | |
| LEDs/each optic Light colour Required components: CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: | 1 White XP-G4 Asymmetric 81 % 0.9 cd/lm 1 White | |



| LED | XT-E | * |
|--|---|--|
| FWHM / FWTM | Asymmetric | 73% 400 755 |
| Efficiency | 90 % | $X \times /// \times X$ |
| Peak intensity | 1.2 cd/lm | .60 ⁴ 900 60 ⁴ |
| | 1 | $\nabla \times / \nabla \times \vee$ |
| LEDs/each optic Light colour | u White | 1220 |
| Required components: | White | 45* 45* |
| Required components. | | \times |
| | | 2000 |
| | | |
| | | 24bo 130° 115° 0° 15° 30° |
| | | |
| | | 90* 90* |
| LED | LUXEON 3030 HE Plus | 700 770 |
| FWHM / FWTM | Asymmetric | 400 |
| Efficiency | 79 % | 604 600 601 |
| Peak intensity | 0.9 cd/lm | |
| LEDs/each optic | 1 | $X \times T X X$ |
| Light colour | White | 45* 1000 45* |
| Required components: | | 120 |
| Protective plate | | 1400 |
| | z, yidos | 1630 |
| | | 30* 15 ³ 1880 15* 30* |
| | | |
| | 05 | |
| | | |
| LED | LUXEON 3030 HE Plus | |
| LED FWHM / FWTM | LUXEON 3030 HE Plus Asymmetric | |
| LED FWHM / FWTM Efficiency | LUXEON 3030 HE Plus Asymmetric 93 % | 20 20 20 20 20 20 20 20 20 20 20 20 20 2 |
| LED FWHM / FWTM Efficiency Peak intensity | LUXEON 3030 HE Plus Asymmetric 93 % 1.2 cd/lm | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic | LUXEON 3030 HE Plus Asymmetric 93 % 1.2 cd/lm 1 | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | LUXEON 3030 HE Plus Asymmetric 93 % 1.2 cd/lm | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic | LUXEON 3030 HE Plus Asymmetric 93 % 1.2 cd/lm 1 | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | LUXEON 3030 HE Plus Asymmetric 93 % 1.2 cd/lm 1 | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | LUXEON 3030 HE Plus Asymmetric 93 % 1.2 cd/lm 1 | 50° 50° 50° 50° 50° 50° 50° 50° 50° 50° |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | LUXEON 3030 HE Plus Asymmetric 93 % 1.2 cd/lm 1 | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: | LUXEON 3030 HE Plus Asymmetric 93 % 1.2 cd/lm 1 White | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: | LUXEON 3030 HE Plus Asymmetric 93 % 1.2 cd/lm 1 White | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: | LUXEON 3030 HE Plus Asymmetric 93 % 1.2 cd/lm 1 White | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: | LUXEON 3030 HE Plus Asymmetric 93 % 1.2 cd/lm 1 White | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: | LUXEON 3030 HE Plus Asymmetric 93 % 1.2 cd/lm 1 White S LUXEON 3535L Asymmetric 93 % | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: WIM / COMPARENT Efficiency Peak intensity | LUXEON 3030 HE Plus Asymmetric 93 % 1.2 cd/lm 1 White | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: WIM / COMPARENT LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic | LUXEON 3030 HE Plus Asymmetric 93 % 1.2 cd/lm 1 White S LUXEON 3535L Asymmetric 93 % 1.2 cd/lm 1 | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CONTINUES LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | LUXEON 3030 HE Plus Asymmetric 93 % 1.2 cd/lm 1 White S LUXEON 3535L Asymmetric 93 % 1.2 cd/lm | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: WIM / COMPARENT LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic | LUXEON 3030 HE Plus Asymmetric 93 % 1.2 cd/lm 1 White S LUXEON 3535L Asymmetric 93 % 1.2 cd/lm 1 | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CONTINUES LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | LUXEON 3030 HE Plus Asymmetric 93 % 1.2 cd/lm 1 White S LUXEON 3535L Asymmetric 93 % 1.2 cd/lm 1 | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CONTINUES LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | LUXEON 3030 HE Plus Asymmetric 93 % 1.2 cd/lm 1 White S LUXEON 3535L Asymmetric 93 % 1.2 cd/lm 1 | |



| A | | |
|---|---|---|
| 🥙 LUMILEI | DS | 90* 90 |
| LED | LUXEON 3535L | 200 |
| FWHM / FWTM | Asymmetric | 726 72 |
| Efficiency | 79 % | |
| Peak intensity | 0.9 cd/lm | 50 ⁴ 600 60 |
| LEDs/each optic | 1 | 80 |
| Light colour | White | 45* 1000 45 |
| Required components: | | 1200 |
| Protective plat | e, glass | 1430 |
| | | 1000 10 ⁴ 12 ⁵ 15 ⁶ 30 ⁵ |
| | DS | 90° 90° |
| LED | LUXEON 5050 HE | |
| FWHM / FWTM | Asymmetric | 73° 200 78° |
| Efficiency | 77 % | |
| Peak intensity | 0.6 cd/lm | |
| LEDs/each optic | 1 | |
| Light colour | White | 45* 600 |
| Required components: | | |
| Protective plat | | |
| Fiolective plat | e, glass | 1000 |
| | | 30° 1200 10° 30° |
| UMILEI | DS Contraction of the second se | 90* 90* |
| LED | LUXEON 5050 HE | 200 |
| FWHM / FWTM | Asymmetric | 73° |
| Efficiency | 93 % | 50 ⁴ |
| Peak intensity | 0.9 cd/lm | 507 600 507 |
| LEDs/each optic | 1 | 30 |
| Light colour | White | 45* 1000 45* |
| Required components: | | 1200 |
| | | |
| | | |
| | | 1000 30* 13 ⁵ 18 ⁶ 0 15* 30* |
| | DS | |
| LED | LUXEON 5050 Round LES | |
| FWHM / FWTM | Asymmetric | 73° 200 75 |
| Efficiency | 82 % | |
| | 0.7 cd/lm | 664 60 |
| | 0.7 Cd/lff | |
| Peak intensity | 0.7 co/m 1 | 60 |
| Peak intensity LEDs/each optic | 1 | |
| Peak intensity LEDs/each optic Light colour | | 00 01 100 00 |
| Peak intensity LEDs/each optic Light colour Required components: | 1 White | 50 00 C |
| Peak intensity LEDs/each optic Light colour | 1 White | |



| | DS | 90* 99* |
|--|--|---|
| LED | LUXEON 5050 Square LES | |
| FWHM / FWTM | Asymmetric | 73° 200 73° |
| Efficiency | 78 % | |
| Peak intensity | 0.7 cd/lm | .50 [%] 400 50*. |
| LEDs/each optic | 1 | 000 |
| Light colour | White | |
| Required components: | | 000000 |
| | | 1000 |
| Protective plate | e, glass | \times |
| | | 1230 |
| | | 30* <u>15</u> * 0° <u>15</u> * 30* |
| UMILEC | DS | 90* 90* |
| LED | LUXEON 5050 Square LES | |
| FWHM / FWTM | Asymmetric | 73° 70° |
| Efficiency | 60 % | |
| Peak intensity | 0.5 cd/lm | -60 ⁴ - 60 ⁴ . |
| LEDs/each optic | 1 | $X/(T \setminus X)$ |
| Light colour | White | 45" 600 45" |
| Required components: | | |
| C17580_STRADA-2> | (2-SHD-WHT | |
| | | |
| Protective plate | e, glass | 30* 1000 30* 30* |
| | | |
| |)S | 90* |
| | | 92. |
| | LUXEON 5050 Square LES Asymmetric | 9 ⁴ 7 ⁵ 20 |
| LED | LUXEON 5050 Square LES | 50° 50° 75° 200 75°. |
| LED FWHM / FWTM Efficiency | LUXEON 5050 Square LES Asymmetric | 20 20 60 60 67 |
| LED FWHM / FWTM | LUXEON 5050 Square LES Asymmetric 57 % | 20 25 60 60 60 60 |
| LED FWHM / FWTM Efficiency Peak intensity | LUXEON 5050 Square LES Asymmetric 57 % 0.6 cd/lm | 90° 92° 73° 200 72° 60° 60° 65° 60° 60° |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic | LUXEON 5050 Square LES Asymmetric 57 % 0.6 cd/lm 1 | 20 20 50 60 60 60 60 60 60 60 60 60 6 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | LUXEON 5050 Square LES Asymmetric 57 % 0.6 cd/lm 1 White | 5° |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: | LUXEON 5050 Square LES Asymmetric 57 % 0.6 cd/lm 1 White | 97 99 99 90 90 90 90 90 90 90 90 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: | LUXEON 5050 Square LES Asymmetric 57 % 0.6 cd/lm 1 White | 00 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17677_STRADA-2> | LUXEON 5050 Square LES Asymmetric 57 % 0.6 cd/lm 1 White (2-SHD-BLK | 00 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17677_STRADA-2> | LUXEON 5050 Square LES Asymmetric 57 % 0.6 cd/lm 1 White (2-SHD-BLK | 60 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17677_STRADA-2> | LUXEON 5050 Square LES Asymmetric 57 % 0.6 cd/lm 1 White (2-SHD-BLK S LUXEON 5050 Square LES | 60 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17677_STRADA-2> | LUXEON 5050 Square LES Asymmetric 57 % 0.6 cd/lm 1 White (2-SHD-BLK S LUXEON 5050 Square LES Asymmetric | 00 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17677_STRADA-2> | LUXEON 5050 Square LES Asymmetric 57 % 0.6 cd/lm 1 White 22-SHD-BLK S LUXEON 5050 Square LES Asymmetric 49 % | 90 90 90 90 90 90 90 90 90 90 90 90 90 9 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17677_STRADA-2> | LUXEON 5050 Square LES Asymmetric 57 % 0.6 cd/lm 1 White K2-SHD-BLK S LUXEON 5050 Square LES Asymmetric 49 % 0.5 cd/lm | 200 200 200 200 200 200 200 200 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17677_STRADA-2> C17677_STRADA | LUXEON 5050 Square LES Asymmetric 57 % 0.6 cd/lm 1 White K2-SHD-BLK S LUXEON 5050 Square LES Asymmetric 49 % 0.5 cd/lm 1 | 200 200 200 200 200 200 200 200 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17677_STRADA-2> | LUXEON 5050 Square LES Asymmetric 57 % 0.6 cd/lm 1 White K2-SHD-BLK S LUXEON 5050 Square LES Asymmetric 49 % 0.5 cd/lm | 9° 10° 10° 10° 10° 10° 10° 10° 10 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17677_STRADA-2> C17677_STRA | LUXEON 5050 Square LES Asymmetric 57 % 0.6 cd/lm 1 White K2-SHD-BLK S LUXEON 5050 Square LES Asymmetric 49 % 0.5 cd/lm 1 White | 9° 10° 10° 10° 10° 10° 10° 10° 10 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17677_STRADA-2> C17677_STRADA | LUXEON 5050 Square LES Asymmetric 57 % 0.6 cd/lm 1 White K2-SHD-BLK S LUXEON 5050 Square LES Asymmetric 49 % 0.5 cd/lm 1 White | 90 90 90 90 90 90 90 90 90 90 90 90 90 9 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17677_STRADA-2> C17677_STRA | LUXEON 5050 Square LES Asymmetric 57 % 0.6 cd/lm 1 White 42-SHD-BLK LUXEON 5050 Square LES Asymmetric 49 % 0.5 cd/lm 1 White K2-SHD-BLK | 200 200 200 200 200 200 200 200 |



| |)5 | THY KHI |
|---|--|---|
| LED | LUXEON HL2X | 90° 90 |
| FWHM / FWTM | Asymmetric | 779 |
| Efficiency | 79% | 400 bit |
| Peak intensity | 0.8 cd/lm | 600 |
| LEDs/each optic | 1 | 800 |
| Light colour Required components: | White | 45* 93 |
| | | 1200 |
| Protective plat | e, glass | |
| | | 30+ 15 ⁵ 1650 15 ⁵ 30 |
| |)S | 95* 90 |
| LED | LUXEON HL2X | 2 |
| FWHM / FWTM | Asymmetric | 750 400 75 |
| Efficiency | 93 % | $X \times // $ |
| Peak intensity | 1.1 cd/lm | 60 ¹⁴ 800 601 |
| LEDs/each optic | 1 | $X \times I \times X$ |
| Light colour | White | 45* 1220 45 |
| Required components: | | |
| | | 1630 |
| | | |
| | | 30* |
| | DS | |
| LED | LUXEON XR-HL2X (L2H2-xxxxxxMLU010) | |
| FWHM / FWTM | Asymmetric | 75° 400 75' |
| Efficiency | 96 % | |
| Peak intensity | 1 cd/lm | 60* 800 69 |
| LEDs/each optic | 1 | |
| Light colour | White | 451 1220 45 |
| Required components: | | |
| | | 1600 |
| | | |
| | | |
| | | 20 ⁴ 2000 30 |
| |)S | |
| | | |
| LUMILEI LED FWHM / FWTM | LUXEON XR-HL2X (L2H2-xxxxxxMLU010) | |
| LED FWHM / FWTM | | 30 30 30 30 |
| LED | LUXEON XR-HL2X (L2H2-xxxxxxMLU010) Asymmetric | 80* 0* 23* |
| LED FWHM / FWTM Efficiency | LUXEON XR-HL2X (L2H2-xxxxxxMLU010) Asymmetric 78 % | 12 ^h 0 ^h 12 ^h 80 ^h 10 ^h 10 ^h |
| LED FWHM / FWTM Efficiency Peak intensity | LUXEON XR-HL2X (L2H2-xxxxxMLU010) Asymmetric 78 % 0.6 cd/lm | 12 ^h 0 ^h 12 ^h 80 ^h 10 ^h 10 ^h |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic | LUXEON XR-HL2X (L2H2-xxxxxMLU010) Asymmetric 78 % 0.6 cd/lm 1 | 12 ^h 0 ^h 17 ^h 9 ^h 9 ^h 9 ^h 30 ^h 10 ^h 9 ^h 6 ^h 10 ^h 10 ^h |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: | LUXEON XR-HL2X (L2H2-xxxxxMLU010) Asymmetric 78 % 0.6 cd/lm 1 White | 20 ⁴ 00 07 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | LUXEON XR-HL2X (L2H2-xxxxxMLU010) Asymmetric 78 % 0.6 cd/lm 1 White | 12 ^h 0 ^h 17 ^h 9 ^h 9 ^h 9 ^h 30 ^h 10 ^h 9 ^h 6 ^h 10 ^h 10 ^h |



| MST Your solutions | | |
|---|---|--|
| LED | RecLED 122x50mm 1900lm 730 2x4 Opt G1 | 90° 90° |
| FWHM / FWTM | | 730 200 750 |
| Efficiency | Asymmetric 80 % | 400 |
| Peak intensity | 0.8 cd/lm | 50 ⁴ 50 ⁴ |
| | | |
| LEDs/each optic | 1 | |
| Light colour | White | ·67* 1000 45* |
| Required components: | | 1200 |
| Protective pla | te, glass | 1400 |
| | | 1600 |
| | | 30* <u>15*</u> 0* <u>15*</u> 30* |
| Μ ΝΙCΗΙΛ | | 50 ¹ |
| LED | NF2x757G | |
| FWHM / FWTM | Asymmetric | 750 200 780 |
| Efficiency | 78 % | 400 |
| Peak intensity | 0.9 cd/lm | 50% 600 50* |
| LEDs/each optic | 1 | 80 |
| Light colour | White | 45* 1000 65* |
| Required components: | | |
| riequired compension | | 1220 |
| Protective pla | te, glass | 1400 |
| | | 1600 |
| | | 30° 15° 30° |
| | | |
| Μ ΝΙCΗΙΛ | | 89° 80° |
| | NF3W585AR | 99 ⁴ |
| | NF3W585AR Asymmetric | 25 400 52 |
| LED | | 99* 779 409 609 |
| LED FWHM / FWTM | Asymmetric | 99* 99 75 00 60* 099 60* |
| LED FWHM / FWTM Efficiency | Asymmetric 94 % | 99° 92° 73° 406 60° 60° |
| LED FWHM / FWTM Efficiency Peak intensity | Asymmetric 94 % 1.1 cd/lm | 25 10 10 10 10 10 10 10 10 10 10 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic | Asymmetric 94 % 1.1 cd/lm 1 White | 00 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 94 % 1.1 cd/lm 1 White | 00 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 94 % 1.1 cd/lm 1 White | 00 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 94 % 1.1 cd/lm 1 White | 00 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: | Asymmetric 94 % 1.1 cd/lm 1 White | 000 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 94 % 1.1 cd/lm 1 White | 000 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: | Asymmetric 94 % 1.1 cd/lm 1 White | 000 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: | Asymmetric 94 % 1.1 cd/lm 1 White | 00 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: | Asymmetric 94 % 1.1 cd/lm 1 White NV4WB35AM | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: | Asymmetric 94 % 1.1 cd/lm 1 White NV4WB35AM Asymmetric | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: | Asymmetric 94 % 1.1 cd/lm 1 White NV4WB35AM Asymmetric 95 % | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: | Asymmetric 94 % 1.1 cd/lm 1 White NV4WB35AM Asymmetric 95 % 1 cd/lm | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: | Asymmetric 94 % 1.1 cd/lm 1 White NV4WB35AM Asymmetric 95 % 1 cd/lm 1 White | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: | Asymmetric 94 % 1.1 cd/lm 1 White NV4WB35AM Asymmetric 95 % 1 cd/lm 1 White | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: | Asymmetric 94 % 1.1 cd/lm 1 White NV4WB35AM Asymmetric 95 % 1 cd/lm 1 White | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: | Asymmetric 94 % 1.1 cd/lm 1 White NV4WB35AM Asymmetric 95 % 1 cd/lm 1 White | |



| ΜΝΙCΗΙΛ | | 90* 90* |
|------------------------------|-----------------------------|--|
| LED | NVSW519A | |
| FWHM / FWTM | Asymmetric | 75° 200 75° |
| Efficiency | 79% | |
| Peak intensity | 0.6 cd/lm | 50 ⁴ 400 50 ⁴ |
| LEDs/each optic | 1 | |
| Light colour | White | |
| Required components: | wille | -85° - 65° |
| required components. | | |
| Protective plate | , glass | 1000 |
| | | 200 1220 |
| <i>A</i> | | |
| ΜΝΙCΗΙΛ | | 99* 99* |
| LED | NVSW519A | 200 |
| FWHM / FWTM | Asymmetric | 100 |
| Efficiency | 93 % | |
| Peak intensity | 0.9 cd/lm | . 50 ⁻ |
| LEDs/each optic | 1 | 1000 |
| Light colour | White | 45* 1220 53* |
| Required components: | | |
| | | 1430 |
| | | 1630 |
| | | 1600 |
| 0000414 | | 133 2000 10* |
| OSRAM Opto Semiconductors | | ₽¢* ₽¢* |
| LED | Duris S8 | R |
| FWHM / FWTM | Asymmetric | 73* 200 75* |
| Efficiency | 80 % | X X Have X X |
| Peak intensity | 0.7 cd/lm | 50° 60° |
| LEDs/each optic | 1 | $\times \times / \wedge \times \times$ |
| Light colour | White | 45* 000 45* |
| Required components: | | 1000 |
| | | 1220 |
| Protective plate | , glass | |
| | | 1400 30* 15 ¹ 0* 15 ⁴ 30* |
| OSRAM | | |
| Opto Semiconductors | | 90* 90* |
| LED | OSCONIQ P 3737 (2W version) | 735 |
| FWHM / FWTM | Asymmetric | |
| Efficiency | 96 % | . 60 ⁴ |
| Peak intensity | 1.1 cd/lm | \times / \uparrow |
| LEDs/each optic | 1 | |
| Light colour | White | 45* 1220 45* |
| Required components: | | |
| | | 1600 |
| | | |
| | | 2000 |
| | | 30* |



| OSRAM | | |
|--|---|--|
| Opto Semiconductors | | 90° 90° |
| | OSCONIQ P 3737 (3W version) | 200 73' |
| FWHM / FWTM | Asymmetric | 400 |
| Efficiency | 94 % | 504 600 504 |
| Peak intensity | 1 cd/lm | 00 |
| LEDs/each optic | 1 | 1000 |
| Light colour | White | 45* 45* |
| Required components: | | 1430 |
| | | 1699 |
| | | 1000 |
| | | 30* |
| OSRAM | | 14 ³ 3990 15* |
| Opto Semiconductors | | 90* 90* |
| LED | OSLON Square CSSRM2/CSSRM3 | 200 |
| FWHM / FWTM | Asymmetric | 400 |
| Efficiency | 79 % | sof 504 |
| Peak intensity | 0.8 cd/lm | 00 |
| LEDs/each optic | 1 | 200 |
| Light colour | White | 45* 45* |
| Required components: | | |
| Protective plate | | 1230 |
| FIDIECTIVE Plate | a, glass | 1430 |
| | | 30* 15 ⁵ 1580 10* 30* |
| | | |
| OSRAM Opto Semiconductors | | 90° |
| OSRAM Opto Semiconductors LED | OSLON Square CSSRM2/CSSRM3 | 90° |
| Opto Semiconductors | OSLON Square CSSRM2/CSSRM3 Asymmetric | 10° 70° 200 200 200 |
| Opto Semiconductors LED | OSLON Square CSSRM2/CSSRM3 Asymmetric 57 % | 90° 90° 90° |
| ^{Opto Semiconductors} LED FWHM / FWTM | Asymmetric | 90° 90° 75° 200 75° 60° 60° |
| opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity | Asymmetric 57 % | 90° 73° 64° 600 600 600 600 |
| ^{opto Semiconductors} LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic | Asymmetric 57 % 0.6 cd/lm | |
| opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 57 % 0.6 cd/lm 1 | 60° 69° |
| ^{opto Semiconductors} LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic | Asymmetric 57 % 0.6 cd/lm 1 White | 60° 60° |
| opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17580_STRADA-2) | Asymmetric 57 % 0.6 cd/lm 1 White (2-SHD-WHT | 60° 60° |
| opto semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: | Asymmetric 57 % 0.6 cd/lm 1 White (2-SHD-WHT | 60° 60° |
| opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17580_STRADA-22 Protective plate | Asymmetric 57 % 0.6 cd/lm 1 White K2-SHD-WHT e, glass | 60° 69° |
| opte Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17580_STRADA-29 Protective plate PHILIPS | Asymmetric 57 % 0.6 cd/lm 1 White (2-SHD-WHT a, glass | 60° 60° |
| opto semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17580_STRADA-2) Protective plate C17580_LED | Asymmetric 57 % 0.6 cd/lm 1 White K2-SHD-WHT a, glass Fortimo FastFlex LED 2x8 DA G4+ | 60° 69° |
| opte Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17580_STRADA-2) Protective plate Protective plate LED FWHM / FWTM | Asymmetric 57 % 0.6 cd/lm 1 White K2-SHD-WHT e, glass Fortimo FastFlex LED 2x8 DA G4+ Asymmetric | 60 00 60 00 60 00 100 |
| opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17580_STRADA-2) Protective plate C17580_STRADA-2) Protective plate LED FWHM / FWTM Efficiency | Asymmetric 57 % 0.6 cd/lm 1 White K2-SHD-WHT e, glass Fortimo FastFlex LED 2x8 DA G4+ Asymmetric 58 % | 60 00 60 00 60 00 100 100 100 100 100 100 100 |
| opte Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17580_STRADA-2) Protective plate Protective plate ED FWHM / FWTM Efficiency Peak intensity | Asymmetric 57 % 0.6 cd/lm 1 White K2-SHD-WHT e, glass Fortimo FastFlex LED 2x8 DA G4+ Asymmetric | |
| opto semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17580_STRADA-2) Protective plate Protective plate ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic | Asymmetric 57 % 0.6 cd/lm 1 White (2-SHD-WHT e, glass Fortimo FastFlex LED 2x8 DA G4+ Asymmetric 58 % 0.7 cd/lm 1 | |
| opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17580_STRADA-2) Protective plate Protective plate ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 57 % 0.6 cd/lm 1 White (2-SHD-WHT e, glass Fortimo FastFlex LED 2x8 DA G4+ Asymmetric 58 % 0.7 cd/lm | |
| opto semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17580_STRADA-2) Protective plate Protective plate ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: | Asymmetric 57 % 0.6 cd/lm 1 White (2-SHD-WHT e, glass Fortimo FastFlex LED 2x8 DA G4+ Asymmetric 58 % 0.7 cd/lm 1 White | |
| opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17580_STRADA-2) Protective plate Protective plate ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 57 % 0.6 cd/lm 1 White (2-SHD-WHT e, glass Fortimo FastFlex LED 2x8 DA G4+ Asymmetric 58 % 0.7 cd/lm 1 White | |
| opto semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17580_STRADA-2) Protective plate Protective plate ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: | Asymmetric 57 % 0.6 cd/lm 1 White (2-SHD-WHT e, glass Fortimo FastFlex LED 2x8 DA G4+ Asymmetric 58 % 0.7 cd/lm 1 White | |
| opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17580_STRADA-2) Protective plate PHILLIPS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: | Asymmetric 57 % 0.6 cd/lm 1 White (2-SHD-WHT e, glass Fortimo FastFlex LED 2x8 DA G4+ Asymmetric 58 % 0.7 cd/lm 1 White | |



| PHILIPS | | |
|---|--|---|
| LED | Fortimo FastFlex LED 2x8 DA G4+ | |
| FWHM / FWTM | Asymmetric | 750 775 |
| Efficiency | 50 % | 20 |
| Peak intensity | 0.5 cd/lm | .60° |
| LEDs/each optic | 1 | 400 |
| Light colour | White | 45" 500 45". |
| Required components: | | |
| C17677_STRADA-2> | (2-SHD-BLK | |
| | | 700 |
| Protective plate | e, glass | 30 ¹⁴ 12 ³ 360 12 ⁴ 30 ⁴ |
| PHILIPS | | 90* 90* |
| LED | Fortimo FastFlex LED 2x8 DA HE | |
| FWHM / FWTM | Asymmetric | 73° |
| Efficiency | 96 % | XX/+ |
| Peak intensity | 0.8 cd/lm | - 50 ⁴ 600 60 ⁴ |
| LEDs/each optic | 1 | |
| Light colour | White | 45* 1000 45* |
| Required components: | | |
| | | 1200 |
| | | 1400 |
| | | 1500 |
| | | 130° 133 ⁵ 0° 15° 30° |
| | | |
| PHILIPS | | 90* 90* |
| | | 50° |
| LED | Fortimo FastFlex LED 2x8 DA HE | 94" 92" 78° 200 72 |
| LED FWHM / FWTM | | 32° |
| LED FWHM / FWTM Efficiency | Fortimo FastFlex LED 2x8 DA HE Asymmetric 79 % | 90° 90° 73° 90° 72° 60° 60° 60° |
| LED FWHM / FWTM Efficiency Peak intensity | Fortimo FastFlex LED 2x8 DA HE Asymmetric | 90° 90° 73° 90° 60° 40 60° |
| LED FWHM / FWTM Efficiency | Fortimo FastFlex LED 2x8 DA HE Asymmetric 79 % 0.6 cd/lm | 90° 90° 70° 800 70° 60° 60° 60° 60° |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Fortimo FastFlex LED 2x8 DA HE Asymmetric 79 % 0.6 cd/lm 1 | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: | Fortimo FastFlex LED 2x8 DA HE Asymmetric 79 % 0.6 cd/lm 1 White | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Fortimo FastFlex LED 2x8 DA HE Asymmetric 79 % 0.6 cd/lm 1 White | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: | Fortimo FastFlex LED 2x8 DA HE Asymmetric 79 % 0.6 cd/lm 1 White | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate | Fortimo FastFlex LED 2x8 DA HE Asymmetric 79 % 0.6 cd/lm 1 White | 6° 69 67 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate | Fortimo FastFlex LED 2x8 DA HE Asymmetric 79 % 0.6 cd/lm 1 White a, glass | 6°* 0°0 0°* 0°* |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate | Fortimo FastFlex LED 2x8 DA HE Asymmetric 79 % 0.6 cd/lm 1 White s, glass | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate PHILIPS LED FWHM / FWTM | Fortimo FastFlex LED 2x8 DA HE Asymmetric 79 % 0.6 cd/lm 1 White e, glass Fortimo FastFlex LED 2x8 DAX G4 Asymmetric | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate Protective plate ED FWHM / FWTM Efficiency | Fortimo FastFlex LED 2x8 DA HE Asymmetric 79 % 0.6 cd/lm 1 White s, glass | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate Protective plate ED FWHM / FWTM Efficiency Peak intensity | Fortimo FastFlex LED 2x8 DA HE Asymmetric 79 % 0.6 cd/lm 1 White a, glass Fortimo FastFlex LED 2x8 DAX G4 Asymmetric 94 % | |
| 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 | Fortimo FastFlex LED 2x8 DA HE Asymmetric 79 % 0.6 cd/lm 1 White e, glass Fortimo FastFlex LED 2x8 DAX G4 Asymmetric 94 % 0.9 cd/lm | |
| 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 | Fortimo FastFlex LED 2x8 DA HE Asymmetric 79 % 0.6 cd/lm 1 White e, glass Fortimo FastFlex LED 2x8 DAX G4 Asymmetric 94 % 0.9 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 | Fortimo FastFlex LED 2x8 DA HE Asymmetric 79 % 0.6 cd/lm 1 White e, glass Fortimo FastFlex LED 2x8 DAX G4 Asymmetric 94 % 0.9 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 | Fortimo FastFlex LED 2x8 DA HE Asymmetric 79 % 0.6 cd/lm 1 White e, glass Fortimo FastFlex LED 2x8 DAX G4 Asymmetric 94 % 0.9 cd/lm 1 | 6, 100 6, 60 70 70 70 70 70 70 70 70 70 70 70 70 70 |
| 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 | Fortimo FastFlex LED 2x8 DA HE Asymmetric 79 % 0.6 cd/lm 1 White e, glass Fortimo FastFlex LED 2x8 DAX G4 Asymmetric 94 % 0.9 cd/lm 1 | |



| 0.0.0.0.0.0 | 10 | |
|---|--|--|
| SAMSUN | NG | 30* |
| LED | HiLOM RH12 Z (LH351C) | 200 |
| FWHM / FWTM | Asymmetric | 134 |
| Efficiency | 80 % | 400 |
| Peak intensity | 0.8 cd/lm | 60* 660 * |
| LEDs/each optic | 1 | |
| Light colour | White | 45* 1000 4 |
| Required components: | | 1230 |
| Protective plat | e, glass | 100 |
| 0.0.0.0.0.0 | 10 | 30° <u>15'</u> 0° <u>15'</u> 3 |
| SAMSUN | N G | 90* 90 |
| LED | LH351B | 200 |
| FWHM / FWTM | Asymmetric | $\mathbb{N} \longrightarrow \mathbb{N} \longrightarrow \mathbb{N}$ |
| Efficiency | 78 % | 50 ⁴ |
| Peak intensity | 0.7 cd/lm | |
| LEDs/each optic | 1 | $\times \times / \square \times \times$ |
| Light colour | White | 45* 8% 45 |
| Required components: | | 1000 |
| Protective plat | e diass | 1220 |
| | | 1220 |
| | | 30° 1400 30° 15° 30 |
| SAMSUN | IG | 90* P |
| LED | LH351C | 2 |
| | | |
| FWHM / FWTM | Asymmetric | 75° 77 |
| | Asymmetric 96 % | |
| Efficiency | | 54 |
| Efficiency Peak intensity | 96 % | 50 ⁴ 00 60 |
| Efficiency Peak intensity LEDs/each optic | 96 % 1 cd/lm | 20 |
| FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: | 96 % 1 cd/lm 1 | |
| Efficiency Peak intensity LEDs/each optic Light colour | 96 % 1 cd/lm 1 | 8 ¹ 122 0 |
| Efficiency Peak intensity LEDs/each optic Light colour | 96 % 1 cd/lm 1 | |
| Efficiency Peak intensity LEDs/each optic Light colour | 96 % 1 cd/lm 1 | |
| Efficiency Peak intensity LEDs/each optic Light colour Required components: | 96 % 1 cd/lm 1 White | |
| Efficiency Peak intensity LEDs/each optic Light colour Required components: | 96 % 1 cd/lm 1 White | |
| Efficiency Peak intensity LEDs/each optic Light colour | 96 % 1 cd/lm 1 White | |
| Efficiency Peak intensity LEDs/each optic Light colour Required components: | 96 % 1 cd/lm 1 White | |
| Efficiency Peak intensity LEDs/each optic Light colour Required components: SAMSUN LED FWHM / FWTM | 96 % 1 cd/lm 1 White | 90 90 100 100 100 100 100 100 10 |
| Efficiency Peak intensity LEDs/each optic Light colour Required components: SAMSUN LED FWHM / FWTM Efficiency | 96 % 1 cd/lm 1 White V Mite LH351D Asymmetric | |
| Efficiency Peak intensity LEDs/each optic Light colour Required components: SAMSUN LED FWHM / FWTM Efficiency Peak intensity | 96 % 1 cd/lm 1 White UH351D Asymmetric 93 % | 50 50 120 50 50 50 50 50 50 50 50 50 5 |
| Efficiency Peak intensity LEDs/each optic Light colour Required components: SAMS SUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic | 96 % 1 cd/lm 1 White UH351D Asymmetric 93 % 0.9 cd/lm | 5° 122 122 150 150 150 150 150 150 150 150 |
| Efficiency Peak intensity LEDs/each optic Light colour Required components: | 96 % 1 cd/m 1 White UH351D Asymmetric 93 % 0.9 cd/lm 1 | 90 90 100 100 100 100 100 100 10 |
| Efficiency Peak intensity LEDs/each optic Light colour Required components: SAMSSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | 96 % 1 cd/m 1 White UH351D Asymmetric 93 % 0.9 cd/lm 1 | er 122 152 152 152 152 152 152 152 |
| Efficiency Peak intensity LEDs/each optic Light colour Required components: SAMSSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | 96 % 1 cd/m 1 White UH351D Asymmetric 93 % 0.9 cd/lm 1 | 5° 122 6 102 12 102 12 10 10 10 10 10 10 10 10 10 10 |
| Efficiency Peak intensity LEDs/each optic Light colour Required components: SAMS SUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | 96 % 1 cd/m 1 White UH351D Asymmetric 93 % 0.9 cd/lm 1 | 90 90 100 100 100 100 100 100 10 |



| SAMSU | IG | 20* | YFF |
|--|---|--|---|
| LED | LH351D | | Q |
| FWHM / FWTM | Asymmetric | 73* | 200 |
| Efficiency | 78 % | | |
| Peak intensity | 0.6 cd/lm | *64. | |
| LEDs/each optic | 1 | | 600 |
| Light colour | White | 45 | A 800 |
| Required components: | | | |
| Protective pla | e, glass | $\sum I$ | 1000 |
| | | 39° <u>59'</u> | 0° 15° |
| SAMSUI | IG | 90* | YAM |
| LED | LH502D | | 200 |
| FWHM / FWTM | Asymmetric | 72* | 400 |
| Efficiency | 93 % | 50* | |
| Peak intensity | 0.9 cd/lm | | |
| LEDs/each optic | 1 | \times | 800 |
| Light colour | White | 45* | 1000 |
| Required components: | | $\langle \cdot \rangle$ | 1230 |
| | | \checkmark | 1430 |
| | | X | 1600 |
| | | 30* 233 | 100 150 |
| SAMSUI | IG | | YFT |
| LED | LH502D | <i>N</i> | |
| FWHM / FWTM | Asymmetric | 750 | 200 |
| Efficiency | 77 % | | |
| Peak intensity | 0.6 cd/lm | . 50* | 400 |
| LEDs/each optic | 4 | | $\int \int X$ |
| Linkt and a v | 1 | | |
| Light colour | 1 White | | 600 |
| Light colour Required components: | | 67 | 800 |
| Required components: | White | | 800 |
| | White | | 000 |
| Required components: | White | 45° | 500 3000 1200 00 1270 00 130 |
| Required components: Protective pla | White | 45° 30° <u>15</u> ° | 50 50 1000 1000 1000 1000 1000 1000 100 |
| Required components: Protective plat | White | 6° 30° 50° | |
| Required components: Protective plat | White , glass MJT 5050 | 5° | 00 00 100 100 100 100 100 100 |
| Required components: Protective plat second semiconductor LED FWHM / FWTM | White , glass MJT 5050 Asymmetric | 55' 35' 35' 35' 35' 35' | |
| Required components: Protective plat Protective plat SEGUL SEMICONDUCTOR LED FWHM / FWTM Efficiency | White a, glass MJT 5050 Asymmetric 93 % | 9° 9° 9° | 2 |
| Required components: Protective pla | White , glass MJT 5050 Asymmetric | 97 99 99 90 | 20 |
| Required components: Protective plat scoul semiconductor LED FWHM / FWTM Efficiency Peak intensity | White a, glass MJT 5050 Asymmetric 93 % 0.8 cd/lm | 97 94 94 94 | 200 200 40 60 60 |
| Required components: Protective plat store store sto | White a, glass MJT 5050 Asymmetric 93 % 0.8 cd/lm 1 | 5°. 30° 30° 50° | 200 |
| Required components: Protective plat stout semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | White a, glass MJT 5050 Asymmetric 93 % 0.8 cd/lm 1 | | 200 200 40 60 60 |
| Required components: Protective plat stout semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | White a, glass MJT 5050 Asymmetric 93 % 0.8 cd/lm 1 | | 20 20 20 60 60 60 100 |



| SEOUL | | THY FAI |
|------------------------------|--------------------|---|
| SEOUL SEMICONDUCTOR | SEOUL DC 3030C | 90° s |
| FWHM / FWTM | | 750 400 |
| | Asymmetric | |
| Efficiency | 93 % | 504 800 |
| Peak intensity | 1.2 cd/lm | |
| LEDs/each optic | 1 | 1200 |
| Light colour | White | 45* |
| Required components: | | 1600 |
| | | |
| | | 200 |
| | | 30* <u>200</u> 0* 10* 3 |
| SEOUL | | 35 ³ 35 ⁵ 15 ⁵ |
| SEOUL SEMICONDUCTOR | | 90* |
| LED | SEOUL DC 3030C | 200 |
| FWHM / FWTM | Asymmetric | 750 |
| Efficiency | 79 % | |
| Peak intensity | 0.9 cd/lm | 50° 600 6 |
| LEDs/each optic | 1 | 80 |
| Light colour | White | 45+ 1000 |
| Required components: | | 1200 |
| | | 1490 |
| Protective plate | , glass | |
| | | 1000 30° 13 ⁵ 1880 15° |
| SEQUE SEQUE SEMICONDUCTOR | | 12 ⁵ 1800 15 ⁴ |
| LED | SEOUL DC 5050 6V | |
| FWHM / FWTM | Asymmetric | |
| Efficiency | 93 % | |
| Peak intensity | 0.8 cd/lm | |
| LEDs/each optic | 1 | |
| Light colour | White | |
| Required components: | | |
| | | |
| | | |
| | | |
| SEOUL | | THY KHI |
| seoul semiconductor | Z5M3 | 90* |
| LED FWHM / FWTM | | 778 200 |
| | Asymmetric 77 % | 40 |
| Efficiency | | 50" |
| Peak intensity | 0.8 cd/lm | 60 |
| LEDs/each optic | 1 White | 80 |
| Light colour | White | 45* 1000 |
| Required components: | | |
| Protective plate | diass | 1200 |
| i loteotive plate | , 9000 | 1400 |
| | | 30* 15 ⁵ 1890 15* |
| | | 15' 160 15* |



| SEOUL | | |
|--------------------|------------|---|
| LED | Z5M4 | |
| FWHM / FWTM | Asymmetric | 73" 000 787. |
| Efficiency | 96 % | |
| Peak intensity | 1.1 cd/lm | 60 ⁴ 60 |
| LEDs/each optic | 1 | |
| Light colour | White | 47 <u>120</u> 47 |
| Required component | ts: | |
| | | 300 |
| | | |
| | | 30" 30" |
| | | 22 ³ 23 ³ 23 ³ 2 |



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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LEDiL Oy

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