

PRODUCT DATASHEET C13805_STRADA-2X2-T4

STRADA-2X2-T4

IESNA Type IV beam for wider roads and large outdoor area

TECHNICAL SPECIFICATIONS:

| Dimensions | 50.0 x 50.0 mm |
|----------------|----------------|
| Height | 7.7 mm |
| Fastening | pin, screw |
| ROHS compliant | yes 🛈 |



MATERIAL SPECIFICATIONS:

Component STRADA-2X2-T4 **Type** Multi-lens

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

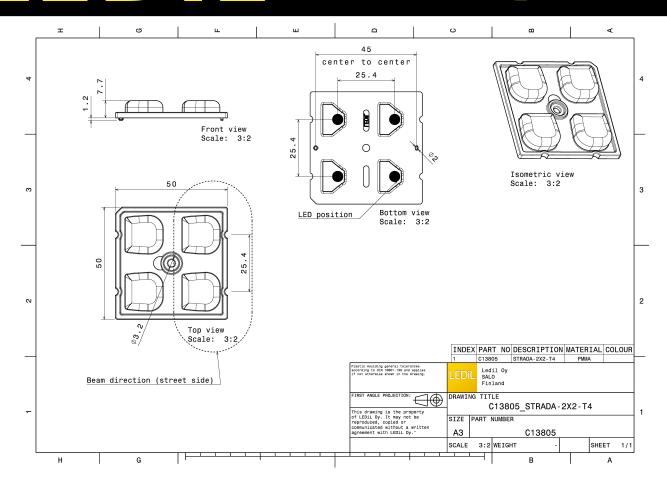
ORDERING INFORMATION:

Component

C13805_STRADA-2X2-T4 » Box size: 480 x 280 x 300 mm

| Qty in box | MOQ | MPQ | Box weight (kg) |
|------------|-----|-----|-----------------|
| 800 | 160 | 160 | 7.7 |

PRODUCT DATASHEET C13805_STRADA-2X2-T4



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



| | | 90° 90° |
|--|---|--|
| LED | XM-L | E Start |
| FWHM / FWTM | Asymmetric | 75° |
| Efficiency | 94 % | |
| Peak intensity | 0.6 cd/lm | 60* 66* |
| LEDs/each optic | 1 | × 30 |
| Light colour | White | 45* 400 45* |
| Required componer | nts: | XIIX |
| | | 50 |
| | | |
| | | 30* 30* |
| | | |
| | | 90* 90* |
| LED | XM-L3 | 73* 100 75* |
| FWHM / FWTM Efficiency | Asymmetric 96 % | |
| Peak intensity | 90 % 0.6 cd/lm | 50* 200 60* |
| LEDs/each optic | 1 | 30 |
| Light colour | White | |
| Required componer | | 400 400 |
| | | |
| | | $X \rightarrow X$ |
| | | × |
| | | 30° 135 0° 15° 30° |
| | | |
| | | 90* 90* |
| | XP-G | 8° |
| | | 81° |
| LED | XP-G | R |
| LED FWHM / FWTM | XP-G Asymmetric | 91° 97 75 50 75 61 60 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic | XP-G Asymmetric 94 % | 20° 200 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | XP-G Asymmetric 94 % 0.5 cd/lm 1 White | 51° 51° 51° 51° 51° 51° 51° 51° 51° 51° |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic | XP-G Asymmetric 94 % 0.5 cd/lm 1 White | 20 Jun 77. |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | XP-G Asymmetric 94 % 0.5 cd/lm 1 White | 20 Jun 77. |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | XP-G Asymmetric 94 % 0.5 cd/lm 1 White | 20 Jun 77. |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | XP-G Asymmetric 94 % 0.5 cd/lm 1 White | 20 Jun 77. |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen | XP-G Asymmetric 94 % 0.5 cd/lm 1 White nts: | 21 UII 0 75 10 10 10 10 10 10 10 10 10 10 10 10 10 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component | XP-G Asymmetric 94 % 0.5 cd/lm 1 White nts: | 21 UII - 75 61 - 75 70 - 61 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component | XP-G Asymmetric 94 % 0.5 cd/lm 1 White Ints: | 21 UII - 75 61 - 75 70 - 61 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component CREEE>LED LED FWHM / FWTM | XP-G Asymmetric 94 % 0.5 cd/lm 1 White nts: XP-G2 Asymmetric | 21 UII - 75 61 - 75 70 - 61 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component CREE LED LED FWHM / FWTM Efficiency | XP-G Asymmetric 94 % 0.5 cd/lm 1 White nts: XP-G2 Asymmetric 94 % | 21 UII - 75 61 - 75 70 - 61 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component LED FWHM / FWTM Efficiency Peak intensity | XP-G Asymmetric 94 % 0.5 cd/lm 1 White nts: XP-G2 Asymmetric | 21 UII - 75 61 - 75 70 - 61 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic | XP-G Asymmetric 94 % 0.5 cd/lm 1 White nts: XP-G2 Asymmetric 94 % 0.6 cd/lm 1 | 20 70 70 F |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component Efficiency Peak intensity LEDs/each optic Light colour | XP-G Asymmetric 94 % 0.5 cd/lm 1 White nts: XP-G2 Asymmetric 94 % 0.6 cd/lm 1 White | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component CREE (LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | XP-G Asymmetric 94 % 0.5 cd/lm 1 White nts: XP-G2 Asymmetric 94 % 0.6 cd/lm 1 White | 25 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component Efficiency Peak intensity LEDs/each optic | XP-G Asymmetric 94 % 0.5 cd/lm 1 White nts: XP-G2 Asymmetric 94 % 0.6 cd/lm 1 White | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | XP-G Asymmetric 94 % 0.5 cd/lm 1 White nts: XP-G2 Asymmetric 94 % 0.6 cd/lm 1 White | |



| | | 90° 90° |
|--|--|--|
| LED | XP-G3 | |
| FWHM / FWTM | Asymmetric | 75* 100 75* |
| Efficiency | 89 % | |
| Peak intensity | 0.6 cd/lm | -00 × |
| LEDs/each optic | 1 | 30 |
| Light colour | White | 451 400 45 ¹ |
| Required compone | nts: | |
| C17580_STRAD | A-2X2-SHD-WHT | |
| | | 600 |
| | | 710 200 |
| | | 125 00 135 |
| | | 90* 90* |
| LED | XP-G3 | |
| FWHM / FWTM | Asymmetric | 73° 200 73° |
| Efficiency | 77 % | 200 ort |
| Peak intensity | 0.6 cd/lm | |
| LEDs/each optic | 1 | 30 |
| Light colour | White | 45* 400 45* |
| Required compone | | |
| C17677_STRAD | A-2X2-SHD-BLK | 500 X |
| | | 60 |
| | | 30* 00 00 30* |
| | | |
| | | |
| | | <u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u> |
| LED | XP-G3 | 30° 30° |
| LED FWHM / FWTM | XP-G3 Asymmetric | 90° |
| LED FWHM / FWTM Efficiency | XP-G3 Asymmetric 94 % | 200 90° 200 90° 616 00° |
| LED FWHM / FWTM Efficiency Peak intensity | XP-G3 Asymmetric 94 % 0.6 cd/lm | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic | XP-G3 Asymmetric 94 % 0.6 cd/lm 1 | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | XP-G3 Asymmetric 94 % 0.6 cd/lm 1 White | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic | XP-G3 Asymmetric 94 % 0.6 cd/lm 1 White | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | XP-G3 Asymmetric 94 % 0.6 cd/lm 1 White | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | XP-G3 Asymmetric 94 % 0.6 cd/lm 1 White | 20 20 20 20 20 20 20 20 20 20 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone | XP-G3 Asymmetric 94 % 0.6 cd/lm 1 White nts: | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | XP-G3 Asymmetric 94 % 0.6 cd/lm 1 White nts: | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone | XP-G3 Asymmetric 94 % 0.6 cd/lm 1 White nts: | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone | XP-G3 Asymmetric 94 % 0.6 cd/lm 1 White nts: | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone | XP-G3 Asymmetric 94 % 0.6 cd/lm 1 White Ints: | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone | XP-G3 Asymmetric 94 % 0.6 cd/lm 1 White nts: XP-L HD Asymmetric | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone | XP-G3 Asymmetric 94 % 0.6 cd/lm 1 White Ints: XP-L HD Asymmetric 94 % 0.5 cd/lm 1 | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone CREE (LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | XP-G3 Asymmetric 94 % 0.6 cd/lm 1 White nts: XP-L HD Asymmetric 94 % 0.5 cd/lm 1 White | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone | XP-G3 Asymmetric 94 % 0.6 cd/lm 1 White nts: XP-L HD Asymmetric 94 % 0.5 cd/lm 1 White | 61 ⁻ 210 - 200 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone | XP-G3 Asymmetric 94 % 0.6 cd/lm 1 White nts: XP-L HD Asymmetric 94 % 0.5 cd/lm 1 White | 61 ⁻ 210 - 200 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone CREE (LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | XP-G3 Asymmetric 94 % 0.6 cd/lm 1 White nts: XP-L HD Asymmetric 94 % 0.5 cd/lm 1 White | 61 ⁻ 200 6.4 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone | XP-G3 Asymmetric 94 % 0.6 cd/lm 1 White nts: XP-L HD Asymmetric 94 % 0.5 cd/lm 1 White | |



| LED | – XP-L HI | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ |
|--|--|--|
| FWHM / FWTM | Asymmetric | 790 100 770 |
| Efficiency | 94 % | |
| Peak intensity | 0.6 cd/lm | 604 |
| LEDs/each optic | 1 | 30 |
| Light colour | White | 45* 400 42* |
| Required componer | | X X X |
| | | 200 |
| | | 60 |
| | | |
| | | 30° 700 30° 30° 30° |
| | | 90* 90* |
| LED | XP-L2 | G |
| FWHM / FWTM | Asymmetric | 73* |
| Efficiency | 94 % | |
| Peak intensity | 0.5 cd/lm | 50° |
| LEDs/each optic | 1 | 30 |
| Light colour | White | a |
| Required componer | nts: | 40 |
| | | 500 |
| | | |
| | | 30° 500 30° |
| | _ | 15° 0° 15° |
| | | |
| | 1 | 90* 90* |
| LED | XT-E | 4 |
| LED FWHM / FWTM | XT-E Asymmetric | 10 10 12 12 12 12 12 12 12 12 12 12 12 12 12 |
| LED FWHM / FWTM Efficiency | XT-E Asymmetric 94 % | 4 |
| LED FWHM / FWTM Efficiency Peak intensity | XT-E Asymmetric 94 % 0.5 cd/m | 4 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic | XT-E Asymmetric 94 % 0.5 cd/m 1 | 4 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | XT-E Asymmetric 94 % 0.5 cd/m 1 White | 4 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic | XT-E Asymmetric 94 % 0.5 cd/m 1 White | 2 ¹ 6 ¹ 20 50 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | XT-E Asymmetric 94 % 0.5 cd/m 1 White | 2 ¹ 6 ¹ 20 50 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | XT-E Asymmetric 94 % 0.5 cd/m 1 White | 2 ¹ 6 ¹ 30 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | XT-E Asymmetric 94 % 0.5 cd/m 1 White | 2 ¹ 6 ¹ 30 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer | XT-E Asymmetric 94 % 0.5 cd/lm 1 White hts: | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer | XT-E Asymmetric 94 % 0.5 cd/lm 1 White hts: | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer | XT-E Asymmetric 94 % 0.5 cd/lm 1 White hts: | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer | XT-E Asymmetric 94 % 0.5 cd/lm 1 White hts: EDS LUXEON 5050 Round LES Asymmetric | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer | XT-E Asymmetric 94 % 0.5 cd/lm 1 White hts: EDS LUXEON 5050 Round LES Asymmetric 94 % | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer Required componer Composition Required componer FWHM / FWTM Efficiency Peak intensity | XT-E Asymmetric 94 % 0.5 cd/m 1 White hts: EDS LUXEON 5050 Round LES Asymmetric 94 % 0.5 cd/m | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer Required componer Efficiency Peak intensity LEDs/each optic | XT-E Asymmetric 94 % 0.5 cd/m 1 White hts: EDS LUXEON 5050 Round LES Asymmetric 94 % 0.5 cd/m 1 | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer Component Required componer Component Efficiency Peak intensity LEDs/each optic Light colour | XT-E Asymmetric 94 % 0.5 cd/m 1 White hts: EDS LUXEON 5050 Round LES Asymmetric 94 % 0.5 cd/m 1 White | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer Required componer Efficiency Peak intensity LEDs/each optic | XT-E Asymmetric 94 % 0.5 cd/m 1 White hts: EDS LUXEON 5050 Round LES Asymmetric 94 % 0.5 cd/m 1 White | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer Composition Required componer Composition Efficiency Peak intensity LEDs/each optic Light colour | XT-E Asymmetric 94 % 0.5 cd/m 1 White hts: EDS LUXEON 5050 Round LES Asymmetric 94 % 0.5 cd/m 1 White | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer Component Required componer Component Efficiency Peak intensity LEDs/each optic Light colour | XT-E Asymmetric 94 % 0.5 cd/m 1 White hts: EDS LUXEON 5050 Round LES Asymmetric 94 % 0.5 cd/m 1 White | |



| 🕐 LUMIL | .EDS | |
|--|--|--|
| LED | LUXEON MZ | 4 |
| FWHM / FWTM | Asymmetric | 200 |
| Efficiency | 94 % | |
| Peak intensity | 0.6 cd/lm | 50* 6 |
| LEDs/each optic | 1 | 30 |
| Light colour | White | 40 |
| Required compone | | 500 |
| | | |
| | | 60 |
| | | 700 |
| | | 30* <u>15</u> * 0° 15* 3 |
| | EDS | 50° 9 |
| LED | LUXEON Q | 24 |
| FWHM / FWTM | Asymmetric | 784 (109 / 7 |
| Efficiency | 94 % | |
| Peak intensity | 0.6 cd/lm | |
| LEDs/each optic | 1 | 300 |
| Light colour | White | |
| Required compone | ents: | 400 |
| | | |
| | | |
| | | 800 |
| | | 30. 183 08 188 |
| - | | |
| | EDS | 90° |
| | LUXEON T | 90° 2 1 9 |
| LED | | 2 2 2 2 30 2 30 2 30 30 30 30 30 30 30 30 30 30 30 30 30 |
| LED FWHM / FWTM | LUXEON T | |
| LED FWHM / FWTM Efficiency | LUXEON T Asymmetric | |
| LED FWHM / FWTM Efficiency | LUXEON T Asymmetric 94 % | |
| LED FWHM / FWTM Efficiency Peak intensity | LUXEON T Asymmetric 94 % 0.6 cd/lm | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic | LUXEON T Asymmetric 94 % 0.6 cd/lm 1 White | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | LUXEON T Asymmetric 94 % 0.6 cd/lm 1 White | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | LUXEON T Asymmetric 94 % 0.6 cd/lm 1 White | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | LUXEON T Asymmetric 94 % 0.6 cd/lm 1 White | 20 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone | LUXEON T Asymmetric 94 % 0.6 cd/lm 1 White ents: | 20 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | LUXEON T Asymmetric 94 % 0.6 cd/lm 1 White ents: | 20 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone | LUXEON T Asymmetric 94 % 0.6 cd/lm 1 White ents: | 20 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone | LUXEON T Asymmetric 94 % 0.6 cd/lm 1 White ents: EDS LUXEON TX Asymmetric | 20 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone | LUXEON T Asymmetric 94 % 0.6 cd/lm 1 White ents: EDS LUXEON TX Asymmetric 94 % | 20 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Weak intensity | LUXEON T Asymmetric 94 % 0.6 cd/lm 1 White ents: EDS LUXEON TX Asymmetric | 20 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Multiple Equired compone Efficiency Peak intensity LEDs/each optic | LUXEON T Asymmetric 94 % 0.6 cd/lm 1 White ents: | 20 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Composition Required compone Composition LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | LUXEON T Asymmetric 94 % 0.6 cd/lm 1 White ents: | 20 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Composition Required compone Composition LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | LUXEON T Asymmetric 94 % 0.6 cd/lm 1 White ents: | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone | LUXEON T Asymmetric 94 % 0.6 cd/lm 1 White ents: | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Composition Required compone Composition LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | LUXEON T Asymmetric 94 % 0.6 cd/lm 1 White ents: | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Composition Required compone Composition LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | LUXEON T Asymmetric 94 % 0.6 cd/lm 1 White ents: | |



| LUMILEDS LED LUXEON V FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 0.6 cd/lm LEDs/each optic 1 Light colour White Required components: | 90 |
|---|------------|
| LED LUXEON V FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 0.6 cd/lm LEDs/each optic 1 Light colour White | |
| FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 0.6 cd/lm LEDs/each optic 1 Light colour White | |
| Efficiency 94 % Peak intensity 0.6 cd/lm LEDs/each optic 1 Light colour White | 60* 57* |
| LEDs/each optic 1 Light colour White | |
| LEDs/each optic 1 Light colour White | 65* |
| Light colour White | 65* |
| 400 | |
| | |
| | |
| | |
| 60 | |
| 33, 64 | 15* 30* |
| MST Your solutions | |
| LED RecLED 122x50mm 1900lm 730 2x4 Opt G1 | |
| FWHM / FWTM Asymmetric | 75. |
| Efficiency 97 % | |
| Peak intensity 0.6 cd/lm | 60* |
| LEDs/each optic 1 | |
| Light colour White | 61 |
| Required components: | |
| 00 | |
| | |
| 70 | T |
| | 184 00 |
| ΝΙCΗΙΛ | 90* |
| LED NVSW219F | |
| FWHM / FWTM Asymmetric | |
| Efficiency 94 % | |
| Peak intensity 0.6 cd/lm | 60* |
| LEDs/each optic 1 | |
| Light colour White | 45* |
| Required components: | |
| 200 | |
| 60 | |
| 30* 23* 70 | 30* |
| | 10. |
| ₩ NICHIA | 90* |
| LED NVSW319B | |
| | |
| FWHM / FWTM Asymmetric | |
| Efficiency 94 % | 50* |
| Efficiency 94 % Peak intensity 0.6 cd/lm | 60' |
| Efficiency 94 % Peak intensity 0.6 cd/lm LEDs/each optic 1 | |
| Efficiency 94 % Peak intensity 0.6 cd/lm LEDs/each optic 1 Light colour White | |
| Efficiency 94 % Peak intensity 0.6 cd/lm LEDs/each optic 1 Light colour White | 6 |
| Efficiency 94 % Peak intensity 0.6 cd/lm LEDs/each optic 1 Light colour White | 60 |
| Efficiency 94 % Peak intensity 0.6 cd/lm LEDs/each optic 1 | 6 |



| FWHM / FWTM Asym Efficiency 94 % Peak intensity 0.6 cc LEDs/each optic 1 Light colour White Required components: White OSRAM Opto Semiconductors LED Duris FWHM / FWTM Asym Efficiency 97 % Peak intensity 0.5 cc LEDs/each optic 1 Light colour White Required components: ************************************ | S8 metric //m | |
|---|-----------------------------|---|
| LED NVSV FWHM / FWTM Asym Efficiency 94 % Peak intensity 0.6 cc LEDs/each optic 1 Light colour White Required components: OSRAM Opto Semiconductors LED Duris FWHM / FWTM Asym Efficiency 97 % Peak intensity 0.5 cc LEDs/each optic 1 Light colour White Required components: OSRAM Opto Semiconductors LED SP 0.5 cc LEDS/each optic 1 Light colour White Required components: | metric V/m S8 metric V/m | |
| FWHM / FWTM Asym Efficiency 94 % Peak intensity 0.6 cc LEDs/each optic 1 Light colour White Required components: Image: Components in the symptotic semiconductors LED Duris FWHM / FWTM Asym Efficiency 97 % Peak intensity 0.5 cc LEDs/each optic 1 Light colour White Required components: Image: Components in the symptotic semiconductors LED OSCAM Opto Semiconductors LED LED OSLC FWHM / FWTM Asym Efficiency 94 % Peak intensity 0.6 cc LED OSLC FWHM / FWTM Asym Efficiency 94 % Peak intensity 0.6 cc LED/each optic 1 Light colour White | metric V/m S8 metric V/m | |
| Efficiency 94 % Peak intensity 0.6 cc LEDs/each optic 1 Light colour White Required components: | VIm S8 metric VIm | |
| Peak intensity 0.6 cc LEDs/each optic 1 Light colour White Required components I OSRAM Opto Semiconductors Duris FWHM / FWTM Asym Efficiency 97 % Peak intensity 0.5 cc LEDs/each optic 1 Light colour White Required components I Light colour White Required components I LED OSLC FWHM / FWTM Asym Efficiency 94 % Peak intensity 0.6 cc LED SLC FWHM / FWTM Asym Efficiency 94 % Peak intensity 0.6 cc LEDs/each optic 1 Light colour White | S8 metric //m | |
| LEDs/each optic 1 Light colour White Required components: COSRAM Opto Semiconductors LED DUris FWHM / FWTM Asym Efficiency 97 % Peak intensity 0.5 cc LEDs/each optic 1 Light colour White Required components: COSRAM Opto Semiconductors LED OSLO FWHM / FWTM Asym Efficiency 94 % Peak intensity 0.6 cc LEDs/each optic 1 Light colour White | S8 metric //m | |
| Light colour White Required components: OSRAM Opto Semiconductors LED DUris FWHM / FWTM Asym Efficiency 97 % Peak intensity 0.5 cc LEDs/each optic 1 Light colour White Required components: OSRAM Opto Semiconductors LED OSLO FWHM / FWTM Asym Efficiency 94 % Peak intensity 0.6 cc LEDs/each optic 1 Light colour White | S8 metric VIm | |
| Required components: OSRAM Opto Semiconductors LED Duris FWHM / FWTM Asym Efficiency 97 % Peak intensity 0.5 cc LEDs/each optic 1 Light colour White Required components: OSRAM Opto Semiconductors LED OSLO FWHM / FWTM Asym Efficiency 94 % Peak intensity 0.6 cc LEDs/each optic 1 Light colour White | S8 metric VIm | |
| OSRAM Opto Semiconductors LED Duris FWHM / FWTM Asym Efficiency 97 % Peak intensity 0.5 cc LEDs/each optic 1 Light colour White Required components: Vertice Opto Semiconductors LED LED OSLO FWHM / FWTM Asym Efficiency 94 % Peak intensity 0.6 cc LEDs/each optic 1 Light colour 1 Light colour 1 | metric VIm | |
| opto Semiconductors Duriss LED Duriss FWHM / FWTM Asym Efficiency 97 % Peak intensity 0.5 cc LEDs/each optic 1 Light colour White Required components: Visite Opto Semiconductors Visite LED OSLC FWHM / FWTM Asym Efficiency 94 % Peak intensity 0.6 cc LEDs/each optic 1 Light colour White | metric VIm | |
| opte semiconductors LED Duriss FWHM / FWTM Asym Efficiency 97 % Peak intensity 0.5 cc LEDs/each optic 1 Light colour White Required components Visite Semiconductors Semiconductors LED OSLC FWHM / FWTM Asym Efficiency 94 % Peak intensity 0.6 cc LEDs/each optic 1 Light colour 1 | metric VIm | |
| opto Semiconductors Duriss LED Duriss FWHM / FWTM Asym Efficiency 97 % Peak intensity 0.5 cc LEDs/each optic 1 Light colour White Required components: Visite Opto Semiconductors Visite LED OSLC FWHM / FWTM Asym Efficiency 94 % Peak intensity 0.6 cc LEDs/each optic 1 Light colour White | metric VIm | |
| opte semiconductors LED Duriss FWHM / FWTM Asym Efficiency 97 % Peak intensity 0.5 cc LEDs/each optic 1 Light colour White Required components Visite COSECAM Second FWHM / FWTM Asym Efficiency 94 % Peak intensity 0.6 cc LEDs/each optic 1 Light colour 1 | metric VIm | |
| FWHM / FWTM Asym Efficiency 97 % Peak intensity 0.5 cd LEDs/each optic 1 Light colour White Required components: White Opto Semiconductors Value LED OSLC FWHM / FWTM Asym Efficiency 94 % Peak intensity 0.6 cd LEDs/each optic 1 Light colour White | metric VIm | 20 20 20 20 20 20 20 20 20 20 |
| Efficiency 97 % Peak intensity 0.5 cd LEDs/each optic 1 Light colour White Required components: 1 Verse Verse COSRAM Status Opto Semiconductors Status LED OSLC FWHM / FWTM Asym Efficiency 94 % Peak intensity 0.6 cd LEDs/each optic 1 Light colour White | V/m | |
| Efficiency 97 % Peak intensity 0.5 cd LEDs/each optic 1 Light colour White Required components: 1 Verse Verse COSRAM OSLO FWHM / FWTM Asym Efficiency 94 % Peak intensity 0.6 cd LEDs/each optic 1 Light colour White | V/m | |
| LEDs/each optic 1 Light colour White Required components: COSRAM Opto Semiconductors LED OSLO FWHM / FWTM Asym Efficiency 94 % Peak intensity 0.6 co LEDs/each optic 1 Light colour White | | |
| Light colour White Required components: Opto Semiconductors LED OSLC FWHM / FWTM Asym Efficiency 94 % Peak intensity 0.6 cc LEDs/each optic 1 Light colour White | | 30 67 69 60 60 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 |
| Required components: OSRAM Opto Semiconductors LED OSLC FWHM / FWTM Asym Efficiency 94 % Peak intensity 0.6 cc LEDs/each optic 1 Light colour White | | |
| OSRAM Opto Semiconductors LED OSLO FWHM / FWTM Asym Efficiency 94 % Peak intensity 0.6 cc LEDs/each optic 1 Light colour White | | 200 - 13° - X |
| Opto Semiconductors LED OSLC FWHM / FWTM Asymm Efficiency 94 % Peak intensity 0.6 cc LEDs/each optic 1 Light colour White | | 50 60 33* 12 ³ 0 ⁴ 13 ⁵ 32 |
| Opto Semiconductors LED OSLC FWHM / FWTM Asymm Efficiency 94 % Peak intensity 0.6 cc LEDs/each optic 1 Light colour White | | 50° 50° X |
| Opto Semiconductors LED OSLC FWHM / FWTM Asymm Efficiency 94 % Peak intensity 0.6 cc LEDs/each optic 1 Light colour White | | 54° 25 ⁰ 0 ⁰ 13 ⁰ X |
| Opto Semiconductors LED OSLC FWHM / FWTM Asymm Efficiency 94 % Peak intensity 0.6 cc LEDs/each optic 1 Light colour White | | |
| LED OSLC FWHM / FWTM Asym Efficiency 94 % Peak intensity 0.6 cc LEDs/each optic 1 Light colour White | | |
| FWHM / FWTMAsymEfficiency94 %Peak intensity0.6 ccLEDs/each optic1Light colourWhite | NI Course DC | 90* 92 |
| Efficiency94 %Peak intensity0.6 ccLEDs/each optic1Light colourWhite | N Square PC | 73* |
| Peak intensity0.6 coLEDs/each optic1Light colourWhite | menc | |
| LEDs/each optic 1 Light colour White | //m | 50% |
| Light colour White | **** | |
| | | 400 |
| | | 500 |
| | | |
| | | |
| | | 700 |
| | | 152 0° 15° |
| PHILIPS | | 90* |
| | no FastFlex LED 2x8 DA G4 | 700 |
| | metric | 78- |
| Efficiency % | | lor lo |
| Peak intensity 0.6 co | /Im | |
| LEDs/each optic 1 | | XXX |
| Light colour White | | 45* |
| Required components: | | 500 X |
| | | |
| | | 000 |
| | | 00 |
| | | |



| PHILIP | S | 90* 90* |
|--|---|---|
| LED | Fortimo FastFlex LED 2x8 DA G4+ | |
| FWHM / FWTM | Asymmetric | 75* 100 75* |
| Efficiency | 94 % | |
| Peak intensity | 0.5 cd/lm | 60* |
| LEDs/each optic | 1 | |
| Light colour | White | 45* 400 43* |
| Required componer | | |
| | | 540 |
| | | 540 |
| | | |
| | | 30° 13 ⁵ 060 13° 30° |
| PHILIP | S | 90° - 90° |
| LED | Fortimo FastFlex LED 2x8 DA G5 | |
| FWHM / FWTM | Asymmetric | 1300 75* |
| Efficiency | 97 % | |
| Peak intensity | 0.6 cd/lm | 60 ⁴ 300 60 ⁴ |
| LEDs/each optic | 1 | |
| Light colour | White | 45* 400 45* |
| Required componer | its: | 500 |
| | | 50 |
| | | |
| | | 30" 760 30" |
| | | 19. 0. 15. |
| | | |
| PHILIP | S | 99° |
| | | 59° 50° |
| LED | Fortimo FastFlex LED 2x8 DAX G4 | 59° 59° 73° 200 78° |
| LED FWHM / FWTM | Fortimo FastFlex LED 2x8 DAX G4 Asymmetric | 50° 50° 50° |
| LED FWHM / FWTM Efficiency | Fortimo FastFlex LED 2x8 DAX G4 Asymmetric 94 % | 99° 73° 60° 200 80° 80° |
| LED FWHM / FWTM Efficiency LEDs/each optic | Fortimo FastFlex LED 2x8 DAX G4 Asymmetric 94 % 1 | 99° 73° 100 70° 6° |
| LED FWHM / FWTM Efficiency LEDs/each optic Light colour | Fortimo FastFlex LED 2x8 DAX G4 Asymmetric 94 % 1 White | 90° 73° 60° 80° 80° 80° 80° 80° 80° 80° 80° 80° 8 |
| LED FWHM / FWTM Efficiency LEDs/each optic | Fortimo FastFlex LED 2x8 DAX G4 Asymmetric 94 % 1 White | |
| LED FWHM / FWTM Efficiency LEDs/each optic Light colour | Fortimo FastFlex LED 2x8 DAX G4 Asymmetric 94 % 1 White | 50 50 50 50 50 50 50 |
| LED FWHM / FWTM Efficiency LEDs/each optic Light colour | Fortimo FastFlex LED 2x8 DAX G4 Asymmetric 94 % 1 White | 50 50 50 50 50 50 50 50 50 50 50 50 50 5 |
| LED FWHM / FWTM Efficiency LEDs/each optic Light colour | Fortimo FastFlex LED 2x8 DAX G4 Asymmetric 94 % 1 White | 50 50 50 50 50 50 50 50 50 50 |
| LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required componer | Fortimo FastFlex LED 2x8 DAX G4 Asymmetric 94 % 1 White its: | |
| LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required componer | Fortimo FastFlex LED 2x8 DAX G4 Asymmetric 94 % 1 White its: | |
| LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required componer | Fortimo FastFlex LED 2x8 DAX G4 Asymmetric 94 % 1 White Its: | 60 |
| LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required componer | Fortimo FastFlex LED 2x8 DAX G4 Asymmetric 94 % 1 White Its: NGC HiLOM RC12 Z (LH181B) Asymmetric | |
| LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required componer SANSU LED FWHM / FWTM Efficiency | Fortimo FastFlex LED 2x8 DAX G4 Asymmetric 94 % 1 White hts: | 60 |
| LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required componer SANSU LED FWHM / FWTM Efficiency Peak intensity | Fortimo FastFlex LED 2x8 DAX G4 Asymmetric 94 % 1 White its: | 60 |
| LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required componer SANSSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic | Fortimo FastFlex LED 2x8 DAX G4 Asymmetric 94 % 1 White its: | |
| LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required componer SANNSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Fortimo FastFlex LED 2x8 DAX G4 Asymmetric 94 % 1 White its: | 60 |
| LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required componer SANSSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic | Fortimo FastFlex LED 2x8 DAX G4 Asymmetric 94 % 1 White its: | 60 |
| LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required componer SANNSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Fortimo FastFlex LED 2x8 DAX G4 Asymmetric 94 % 1 White its: | 60 |
| LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required componer SANNSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Fortimo FastFlex LED 2x8 DAX G4 Asymmetric 94 % 1 White its: | 60 |



| SAMSU | ING | |
|---|---|--|
| LED | HiLOM RH12 Z (LH351C) | N. Carlos and the second se |
| FWHM / FWTM | Asymmetric | 754 200 75* |
| Efficiency | 97 % | |
| Peak intensity | 0.6 cd/lm | 60* |
| LEDs/each optic | 1 | |
| Light colour | White | 400 |
| Required componer | | |
| | | |
| | | |
| | | 700 |
| L | | 30° 13° 30° |
| SAMSU | JNG | 504 |
| LED | HiLOM RH16 (LH351C) | 4 |
| FWHM / FWTM | Asymmetric | 250 200 782 |
| Efficiency | 94 % | |
| Peak intensity | 0.6 cd/lm | 60 ⁴ 300 60 ⁴ |
| LEDs/each optic | 1 | |
| Light colour | White | 400 etc. |
| Required componer | nts: | 200 |
| | | 60 |
| | | |
| | | |
| <u></u> | | 12 ⁴ 80 13 ⁴ |
| SAMSU | JNG | 50° 50° |
| LED | | |
| | | |
| FWHM / FWTM | HiLOM RM12 Z (LH502C) Asymmetric | |
| | | 21 10 X |
| FWHM / FWTM | Asymmetric | |
| FWHM / FWTM Efficiency | Asymmetric 97 % | 29° 00° 75° |
| FWHM / FWTM Efficiency Peak intensity | Asymmetric 97 % 0.5 cd/lm | |
| FWHM / FWTM Efficiency Peak intensity LEDs/each optic | Asymmetric 97 % 0.5 cd/lm 1 White | |
| FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 97 % 0.5 cd/lm 1 White | |
| FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 97 % 0.5 cd/lm 1 White | |
| FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 97 % 0.5 cd/lm 1 White | |
| FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer | Asymmetric 97 % 0.5 cd/lm 1 White nts: | 20° - 12° - 32° 20° - 66° 00° - |
| FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer | Asymmetric 97 % 0.5 cd/lm 1 White nts: | |
| FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer | Asymmetric 97 % 0.5 cd/lm 1 White Ints: JNG HiLOM RM16 Z (LH502C) | |
| FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer SAMSU LED FWHM / FWTM | Asymmetric 97 % 0.5 cd/lm 1 White Ints: JNG HiLOM RM16 Z (LH502C) Asymmetric | |
| FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer SANSU LED FWHM / FWTM Efficiency | Asymmetric 97 % 0.5 cd/lm 1 White nts: | |
| FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer SANSU LED FWHM / FWTM Efficiency Peak intensity | Asymmetric 97 % 0.5 cd/lm 1 White nts: | |
| FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer SANSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic | Asymmetric 97 % 0.5 cd/lm 1 White I White MIS HILOM RM16 Z (LH502C) Asymmetric 98 % 0.5 cd/lm 1 | |
| FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer SANNSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 97 % 0.5 cd/lm 1 White nts: | |
| FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer SANSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic | Asymmetric 97 % 0.5 cd/lm 1 White nts: | |
| FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer SANNSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 97 % 0.5 cd/lm 1 White nts: | |
| FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer SANNSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 97 % 0.5 cd/lm 1 White nts: | |



| S ΛΜSI | INC | |
|---|---|---|
| | | 90* 90* |
| LED | HiLOM RM8 Z (LH502C) | |
| FWHM / FWTM | Asymmetric | |
| Efficiency | 97 % | en la |
| Peak intensity | 0.5 cd/lm | |
| LEDs/each optic | 1 | |
| Light colour | White | 45° 400 45' |
| Required compone | ents: | |
| | | |
| | | |
| | | 30° 15° 0° 15° 30° |
| S ΛΜSI | UNG | |
| LED | LH351B | Y Y |
| FWHM / FWTM | Asymmetric | 750 500 755 |
| Efficiency | % | |
| Peak intensity | 0.6 cd/lm | .60 ⁴ 60 ⁴ |
| LEDs/each optic | 1 | |
| Light colour | White | 45* 400 6* |
| Required compone | | |
| | | |
| | | |
| | | |
| | | 30° 700 30° 30° |
| Elektronik GmbH | | THY YHT |
| | | 90* 90* |
| LED | LED-Pa-L15c2W11c2-xxx-C050-01 | 99 ⁴ 94 ⁴ |
| | | 294 |
| LED FWHM / FWTM | LED-Pa-L15c2W11c2-xxx-C050-01 Asymmetric 98 % | 94° 99° 750 100 752 |
| LED FWHM / FWTM Efficiency | Asymmetric | 27 |
| LED FWHM / FWTM Efficiency Peak intensity | Asymmetric 98 % | 94 94 77 120 64 64 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic | Asymmetric 98 % 0.6 cd/lm | |
| LED | Asymmetric 98 % 0.6 cd/lm 1 White | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 98 % 0.6 cd/lm 1 White | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 98 % 0.6 cd/lm 1 White | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 98 % 0.6 cd/lm 1 White | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone | Asymmetric 98 % 0.6 cd/lm 1 White | 30 60 70 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 98 % 0.6 cd/lm 1 White | 30 60 70 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone | Asymmetric 98 % 0.6 cd/lm 1 White | 50 60 70 20 ⁺ 15 ⁺ 30 ⁺ |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone | Asymmetric 98 % 0.6 cd/lm 1 White ents: | 50 60 70 23 ³ 25 ³ 30 ³ |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone | Asymmetric 98 % 0.6 cd/lm 1 White ents: | 50 50 70 20 ³ 20 ³ 20 50 70 50 70 50 70 50 70 50 70 50 70 50 70 50 70 50 70 50 70 50 70 50 70 70 70 70 70 70 70 70 70 7 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone | Asymmetric 98 % 0.6 cd/lm 1 White ents: Z5M3 Asymmetric | 50 00 00 00 00 00 00 00 00 00 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone seous semiconourcor LED FWHM / FWTM Efficiency Peak intensity | Asymmetric 98 % 0.6 cd/lm 1 White ents: Z5M3 Asymmetric 94 % | 90 20 ⁴ 20 20 20 20 20 20 20 20 20 20 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone seous semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic | Asymmetric 98 % 0.6 cd/lm 1 White ents: Z5M3 Asymmetric 94 % 0.6 cd/lm | 50 20 20 20 20 20 20 20 20 20 2 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone seous stmiconductor LED FWHM / FWTM Efficiency | Asymmetric 98 % 0.6 cd/lm 1 White ants: Z5M3 Asymmetric 94 % 0.6 cd/lm 1 White | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone seous semiconoucror LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 98 % 0.6 cd/lm 1 White ants: Z5M3 Asymmetric 94 % 0.6 cd/lm 1 White | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone seous semiconoucror LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 98 % 0.6 cd/lm 1 White ants: Z5M3 Asymmetric 94 % 0.6 cd/lm 1 White | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone seous semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 98 % 0.6 cd/lm 1 White ants: Z5M3 Asymmetric 94 % 0.6 cd/lm 1 White | |



| SEOUL | | |
|--|---|--|
| | 7711 | 90* 90* |
| LED | Z5M4 | 75% |
| FWHM / FWTM | Asymmetric | |
| Efficiency | 97 % | 63* 60* |
| Peak intensity | 0.6 cd/lm | X 30 |
| LEDs/each optic | 1 | 400 |
| Light colour | White | 45° |
| Required compone | nts: | 500 |
| | | 00 |
| | | 700 |
| | | 30° |
| SEDUL | | 135 660 15* |
| | | 30* 90* |
| LED | Z8Y22 | in the second se |
| FWHM / FWTM | Asymmetric | 75* 100 75* |
| Efficiency | 94 % | |
| Peak intensity | 0.7 cd/lm | 60* |
| LEDs/each optic | 1 | × / 3% |
| Light colour | White | 45* |
| Required compone | | 400 |
| | | 500 |
| | | |
| | | |
| | | |
| | | 30 15 ⁵ 16 ⁶ 16 ⁶ |
| SEOUL | | |
| SEOUL SEMICONDUCTOR | 70/000 | 99° |
| SEOUL SEMICONDUCTOR | Z8Y22P | |
| seoul semiconductor LED FWHM / FWTM | Asymmetric | |
| seoul semiconductor LED FWHM / FWTM Efficiency | Asymmetric 94 % | THY EFT |
| seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity | Asymmetric 94 % 0.6 cd/lm | THY EFT |
| seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic | Asymmetric 94 % 0.6 cd/lm 1 | 99° 99° 73° 100 75° 60° 60° |
| seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 94 % 0.6 cd/lm 1 White | |
| seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic | Asymmetric 94 % 0.6 cd/lm 1 White | 94° 75° 64° 70° 100 70° 100 70° 64° 64° 64° 70° 64° 70° 64° 70° 64° 70° 64° 70° 70° 70° 70° 70° 70° 70° 70 |
| seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 94 % 0.6 cd/lm 1 White | 94° 75° 64° 70° 100 70° 100 70° 64° 64° 64° 70° 64° 70° 64° 70° 64° 70° 64° 70° 70° 70° 70° 70° 70° 70° 70 |
| seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 94 % 0.6 cd/lm 1 White | 94° 75° 64° 70° 100 70° 100 70° 64° 64° 64° 70° 64° 70° 64° 70° 64° 70° 64° 70° 70° 70° 70° 70° 70° 70° 70 |
| seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 94 % 0.6 cd/lm 1 White | 99° 99° 73° 100 75° 60° 60° |
| stout stemiconbuctor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone | Asymmetric 94 % 0.6 cd/lm 1 White | 94° 75° 64° 70° 100 70° 100 70° 64° 64° 64° 70° 64° 70° 64° 70° 64° 70° 64° 70° 70° 70° 70° 70° 70° 70° 70 |
| SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone | Asymmetric 94 % 0.6 cd/lm 1 White nts: | 94° 75° 64° 70° 100 70° 100 70° 64° 64° 64° 70° 64° 70° 64° 70° 64° 70° 64° 70° 70° 70° 70° 70° 70° 70° 70 |
| seous semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone | Asymmetric 94 % 0.6 cd/lm 1 White nts: TL1L4 | 99° 99° 73° 100 75° 60° 60° |
| seous semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone | Asymmetric 94 % 0.6 cd/lm 1 White nts: TL1L4 Asymmetric | 94° 75° 64° 70° 100 70° 100 70° 64° 64° 64° 70° 64° 70° 64° 70° 64° 70° 64° 70° 70° 70° 70° 70° 70° 70° 70 |
| seous semiconductore LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone TOSHIBA Leading Innovation >>> LED FWHM / FWTM Efficiency | Asymmetric 94 % 0.6 cd/m 1 White nts: TL1L4 Asymmetric 91 % | 99° 99° 73° 100 75° 60° 60° |
| seous semiconductore LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone TOSHIBA Leading Innovation 39 LED FWHM / FWTM Efficiency Peak intensity | Asymmetric 94 % 0.6 cd/lm 1 White nts: TL1L4 Asymmetric | 99° 99° 73° 100 75° 60° 60° |
| seous semiconductore LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone TOSHIBA Leading Innovation >>> LED FWHM / FWTM Efficiency | Asymmetric 94 % 0.6 cd/m 1 White nts: TL1L4 Asymmetric 91 % | 94° 94° 73° 100 75° 60° 60° |
| seous semiconductore LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone TOSHIBA Leading Innovation 39 LED FWHM / FWTM Efficiency Peak intensity | Asymmetric 94 % 0.6 cd/lm 1 White nts: TL1L4 Asymmetric 91 % 0.6 cd/lm | 99° 99° 73° 100 75° 60° 60° |
| seous semiconductore LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone TOSHIBA Leading Innovation 39 LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic | Asymmetric 94 % 0.6 cd/lm 1 White nts: TL1L4 Asymmetric 91 % 0.6 cd/lm 1 White | |
| seous semiconbuctor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone TOSHIBA Leading Innovation >>> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 94 % 0.6 cd/lm 1 White nts: TL1L4 Asymmetric 91 % 0.6 cd/lm 1 White | |
| seous semiconbuctor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone TOSHIBA Leading Innovation >>> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 94 % 0.6 cd/lm 1 White nts: TL1L4 Asymmetric 91 % 0.6 cd/lm 1 White | |
| seous semiconbuctor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone TOSHIBA Leading Innovation >>> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 94 % 0.6 cd/lm 1 White nts: TL1L4 Asymmetric 91 % 0.6 cd/lm 1 White | |



| TRIDON | | THA KHIN |
|---|--|---|
| | | 90 ^k 90 ^k |
| | RLE 2x4 2000lm HP EXC2 OTD | 75* 100 75* |
| FWHM / FWTM | Asymmetric | |
| Efficiency | 94 % | 60° |
| Peak intensity | 0.6 cd/lm | |
| LEDs/each optic | 1 | |
| Light colour | White | 45° |
| Required compone | nts: | |
| | | 000 |
| | | |
| | | 30° 700 30° |
| | 110 | |
| TRIDON | | 90 ⁶ 90 ⁶ |
| LED | RLE 2x8 4000lm HP EXC2 OTD | |
| FWHM / FWTM | Asymmetric | 75* 100 75* |
| Efficiency | 94 % | |
| Peak intensity | 0.6 cd/lm | 60° 60° |
| LEDs/each optic | 1 | |
| Light colour | White | 400 GT |
| Required compone | nts: | |
| | | |
| | | 800 |
| | | 710 |
| | | 30° 15° 30° |
| | | |
| TRIDON | | |
| TRIDON | | <u>80*</u> |
| LED | RLE G1 49x121mm 2000lm xxx EXC OTD | 20 20 20 20 20 20 20 20 20 20 20 20 20 2 |
| LED FWHM / FWTM | RLE G1 49x121mm 2000lm xxx EXC OTD Asymmetric | 30 |
| LED FWHM / FWTM Efficiency | RLE G1 49x121mm 2000lm xxx EXC OTD Asymmetric 94 % | pr 70 00 00 00 00 00 00 00 00 |
| LED FWHM / FWTM Efficiency Peak intensity | RLE G1 49x121mm 2000lm xxx EXC OTD Asymmetric 94 % 0.6 cd/lm | 50* 70* .6* .6* |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic | RLE G1 49x121mm 2000lm xxx EXC OTD Asymmetric 94 % 0.6 cd/lm 1 | 50° 50° 50° |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | RLE G1 49x121mm 2000lm xxx EXC OTD Asymmetric 94 % 0.6 cd/lm 1 White | 50° 50° 50° 50° 50° 50° 50° 50° 50° 50° |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic | RLE G1 49x121mm 2000lm xxx EXC OTD Asymmetric 94 % 0.6 cd/lm 1 White | 50° 5° 500 5° 5° |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | RLE G1 49x121mm 2000lm xxx EXC OTD Asymmetric 94 % 0.6 cd/lm 1 White | 50 50 50 50 50 50 50 50 50 50 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | RLE G1 49x121mm 2000lm xxx EXC OTD Asymmetric 94 % 0.6 cd/lm 1 White | 50 50 50 50 50 50 50 50 50 50 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | RLE G1 49x121mm 2000lm xxx EXC OTD Asymmetric 94 % 0.6 cd/lm 1 White | 27 00 00 00 00 00 00 00 00 00 0 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone | RLE G1 49x121mm 2000lm xxx EXC OTD Asymmetric 94 % 0.6 cd/lm 1 White nts: | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | RLE G1 49x121mm 2000lm xxx EXC OTD Asymmetric 94 % 0.6 cd/lm 1 White nts: | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone | RLE G1 49x121mm 2000lm xxx EXC OTD Asymmetric 94 % 0.6 cd/lm 1 White nts: | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone | RLE G1 49x121mm 2000lm xxx EXC OTD Asymmetric 94 % 0.6 cd/lm 1 White Ints: | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone | RLE G1 49x121mm 2000lm xxx EXC OTD Asymmetric 94 % 0.6 cd/lm 1 White nts: | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone TRIDON LED FWHM / FWTM Efficiency Peak intensity | RLE G1 49x121mm 2000lm xxx EXC OTD Asymmetric 94 % 0.6 cd/lm 1 White Ints: | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone | RLE G1 49x121mm 2000lm xxx EXC OTD Asymmetric 94 % 0.6 cd/lm 1 White nts: | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone TRIDON LED FWHM / FWTM Efficiency Peak intensity | RLE G1 49x121mm 2000lm xxx EXC OTD Asymmetric 94 % 0.6 cd/lm 1 White nts: | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic | RLE G1 49x121mm 2000lm xxx EXC OTD Asymmetric 94 % 0.6 cd/lm 1 White nts: | 27 29 40 50 50 50 50 50 50 50 50 50 5 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | RLE G1 49x121mm 2000lm xxx EXC OTD Asymmetric 94 % 0.6 cd/lm 1 White nts: | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | RLE G1 49x121mm 2000lm xxx EXC OTD Asymmetric 94 % 0.6 cd/lm 1 White nts: | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | RLE G1 49x121mm 2000lm xxx EXC OTD Asymmetric 94 % 0.6 cd/lm 1 White nts: | |



| TRIDON | lic | 30' |
|------------------|------------------------------------|--|
| LED | RLE G1 49x223mm 4000lm xxx EXC OTD | |
| FWHM / FWTM | Asymmetric | 731 |
| Efficiency | 94 % | |
| Peak intensity | 0.6 cd/lm | 61* 660 60* |
| LEDs/each optic | 1 | |
| Light colour | White | 45* 1000 45* |
| Required compone | nts: | 1270 1270 1400 201 127 0 ⁴ 13 ⁴ 24 ⁴ |
| TRIDON | lic | 30" |
| LED | RLE G1 49x245mm 4000lm xxx EXC OTD | S. |
| FWHM / FWTM | Asymmetric | 731 |
| Efficiency | 94 % | |
| Peak intensity | 0.6 cd/lm | 60° 300 60° |
| LEDs/each optic | 1 | 40 |
| Light colour | White | 45' 500 43' |
| Required compone | nts: | 566 770 81 ⁴ 25 27 38 ⁴ |



| LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required components: | XHP35 HD Asymmetric 90 % 1 White | |
|---|--|-----------------------------------|
| | | |
| LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required components: | XHP35 HI Asymmetric 93 % 1 White | |
| | | 90 90° |
| LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required components: | XM-L2 Asymmetric 94 % 1 White | 61° 60° 60° |
| | | 00 20* 15 ³ 25* 30* |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic | XP-G2 HE Asymmetric 94 % 0.5 cd/lm 1 | jgs 6√ 20 20 00 |
| Light colour Required components: | White | |



| Γ | | |
|----------------------|----------------------------|--|
| | | 90° 90° |
| LED | XP-G3 | |
| FWHM / FWTM | Asymmetric | 75* 100 75* |
| Efficiency | 76 % | |
| Peak intensity | 0.4 cd/lm | 50 ⁴ 200 604 |
| LEDs/each optic | 1 | |
| Light colour | White | e ⁻ |
| Required components: | | 40 |
| C17580_STRADA-2X | 2-SHD-WHT | |
| | | X/T/X |
| Protective plate | e, glass | 30* <u>13</u> ³ 0 ⁸ 15 ⁹ 30* |
| | | 90° |
| LED | XP-G3 | G |
| FWHM / FWTM | Asymmetric | 100 75° |
| Efficiency | 79% | |
| Peak intensity | 0.4 cd/lm | 60* 200 60* |
| LEDs/each optic | 1 | |
| Light colour | White | 45* 45* |
| Required components: | | 40 |
| Drotostivo plate | | X X |
| Protective plate | , glass | 200 |
| | | 30° 13° 668 13° 30° |
| | | 20* |
| LED | XP-L2 | |
| FWHM / FWTM | Asymmetric | 754 500 754 |
| Efficiency | 79 % | |
| Peak intensity | 0.4 cd/lm | 66* 200 60* |
| LEDs/each optic | 1 | |
| Light colour | White | 45* 300 45* |
| Required components: | | |
| | | 400 |
| Protective plate | e, glass | 500 |
| | | 30* 35 ⁴ 0 ⁶ 35 ⁴ 30 ⁴ |
| |)S | |
| LED | LUXEON 3030 2D (Round LES) | |
| FWHM / FWTM | Asymmetric | 730 |
| Efficiency | 94 % | |
| Peak intensity | 0.6 cd/lm | 60 ⁴ 60 ⁴ |
| LEDs/each optic | 1 | |
| Light colour | White | 400 45 |
| Required components: | | \mathbb{N}/\mathbb{N} |
| | | |
| | | 600 |
| | | $K / \rangle \lambda$ |
| | | 130* |



| |)S | |
|---|---|--|
| LED | LUXEON 3030 2D (Round LES) | 90° 90 |
| FWHM / FWTM | Asymmetric | 75% |
| Efficiency | 81 % | |
| Peak intensity | 0.4 cd/lm | 60* 200 60 |
| LEDs/each optic | 1 | |
| Light colour | White | 4 ⁵¹ |
| Required components: | | 460 |
| Protective plate | e, glass | 20 |
| | | 30" 15 ³ 0 ⁹ 15 ⁴ 30" |
| |)5 | 80. |
| LED | LUXEON 3030 2D (Square LES) | |
| FWHM / FWTM | Asymmetric | 100 100 |
| Efficiency | 94 % | 200 |
| Peak intensity | 0.6 cd/lm | 50* 500 |
| LEDs/each optic | 1 | |
| Light colour | White | 45* 400 45 |
| Required components: | | 50 |
| | | |
| | | 60 |
| | | 710 |
| | | 15° 0° 15° |
| UMILEC |)S | 90* 90* |
| LED | LUXEON 5050 Round LES | G |
| | | |
| FWHM / FWTM | Asymmetric | 73* 500 772 |
| FWHM / FWTM | Asymmetric 84 % | 75* |
| FWHM / FWTM Efficiency | | 25 100 55 61* 20 60 |
| FWHM / FWTM Efficiency Peak intensity | 84 % | 25 50 50 72 55 50 60 |
| FWHM / FWTM Efficiency Peak intensity | 84 % 0.4 cd/lm | 77 300 77 60 60 60 60 |
| FWHM / FWTM Efficiency Peak intensity LEDs/each optic | 84 % 0.4 cd/lm 1 | 27 50 50 F |
| FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: | 84 % 0.4 cd/lm 1 White | |
| FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | 84 % 0.4 cd/lm 1 White | |
| FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: | 84 % 0.4 cd/lm 1 White | 200 200 200 200 200 200 200 200 |
| FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate | 84 % 0.4 cd/lm 1 White | |
| FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate | 84 % 0.4 cd/lm 1 White e, glass | |
| FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate | 84 % 0.4 cd/lm 1 White e, glass LUXEON 5050 Square LES | |
| FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate Contractive Contractive Protective plate Contractive | 84 % 0.4 cd/lm 1 White e, glass LUXEON 5050 Square LES Asymmetric | |
| FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate Protective plate ED FWHM / FWTM Efficiency | 84 % 0.4 cd/lm 1 White e, glass DS LUXEON 5050 Square LES Asymmetric 78 % | |
| FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate Vertice plate Protective plate FWHM / FWTM Efficiency Peak intensity | 84 % 0.4 cd/lm 1 White a, glass DS LUXEON 5050 Square LES Asymmetric 78 % 0.4 cd/lm | |
| FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate White Composed State Protective plate FWHM / FWTM Efficiency Peak intensity LEDs/each optic | 84 % 0.4 cd/lm 1 White e, glass S LUXEON 5050 Square LES Asymmetric 78 % 0.4 cd/lm 1 | |
| FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate Composition of the second Protective plate Composition of the second EED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | 84 % 0.4 cd/lm 1 White a, glass DS LUXEON 5050 Square LES Asymmetric 78 % 0.4 cd/lm | |
| FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate Components: LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: | 84 % 0.4 cd/lm 1 White s, glass LUXEON 5050 Square LES Asymmetric 78 % 0.4 cd/lm 1 White | |
| FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate Contemponents Protective plate Efficiency Peak intensity LEDs/each optic | 84 % 0.4 cd/lm 1 White s, glass LUXEON 5050 Square LES Asymmetric 78 % 0.4 cd/lm 1 White | |
| FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate Components: LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: | 84 % 0.4 cd/lm 1 White a, glass S LUXEON 5050 Square LES Asymmetric 78 % 0.4 cd/lm 1 White (2-SHD-WHT | |



| | DS | 90* 90* |
|--|--|---|
| LED | LUXEON 5050 Square LES | |
| FWHM / FWTM | Asymmetric | 75° |
| Efficiency | 81 % | |
| Peak intensity | 0.5 cd/lm | 60* |
| LEDs/each optic | 1 | 30 |
| Light colour | White | 45* 400 45* |
| Required components: | | X/T/X |
| C17677_STRADA-2 | | 20 |
| - | | |
| | | |
| | | 30* 15 ⁵ 30* 30* |
| | DS | 90° 90° |
| LED | LUXEON 5050 Square LES | |
| FWHM / FWTM | Asymmetric | 75* 500 75* |
| Efficiency | 71 % | |
| Peak intensity | 0.4 cd/lm | 60* 200 60* |
| LEDs/each optic | 1 | |
| Light colour | White | 45* 53* |
| Required components: | | 400 |
| C17677_STRADA-2 | | X |
| | | 200 |
| | | |
| Protective pla | te, glass | |
| Protective pla | te, giass | -30° |
| | | 90. 25. 00 00 00 00 00 00 00 00 |
| | | 90° 00° 90° |
| | DS | 120 90 90 90 90 90 90 90 90 90 90 90 90 90 |
| | DS LUXEON 5050 Square LES | 20° |
| LUMILE | DS LUXEON 5050 Square LES Asymmetric | |
| ED FWHM / FWTM Efficiency | DS LUXEON 5050 Square LES Asymmetric 96 % | 20° 50° 50° 50° 50° 50° 50° 50° 50° 50° 5 |
| ED FWHM / FWTM Efficiency Peak intensity | DS LUXEON 5050 Square LES Asymmetric 96 % 0.5 cd/lm | 22 ⁻ 22 ³ 0 ⁶⁰ 23 ⁵ 20 ⁶ |
| ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic | DS LUXEON 5050 Square LES Asymmetric 96 % 0.5 cd/lm 1 White | 20° 00 13° 00 20° 00 |
| Contraction of the second seco | DS LUXEON 5050 Square LES Asymmetric 96 % 0.5 cd/lm 1 White | |
| Contraction of the second seco | DS LUXEON 5050 Square LES Asymmetric 96 % 0.5 cd/lm 1 White | |
| Contraction of the second seco | DS LUXEON 5050 Square LES Asymmetric 96 % 0.5 cd/lm 1 White | |
| ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: | DS LUXEON 5050 Square LES Asymmetric 96 % 0.5 cd/lm 1 White | |
| Contraction of the second seco | DS LUXEON 5050 Square LES Asymmetric 96 % 0.5 cd/lm 1 White | |
| ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: | DS LUXEON 5050 Square LES Asymmetric 96 % 0.5 cd/lm 1 White | 99° 99' 99' |
| Contraction of the second sec | DS LUXEON 5050 Square LES Asymmetric 96 % 0.5 cd/lm 1 White DS LUXEON 5050 Square LES Asymmetric | |
| LUMILE ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: COMPLEE ED FWHM / FWTM Efficiency | DS LUXEON 5050 Square LES Asymmetric 96 % 0.5 cd/lm 1 White DS LUXEON 5050 Square LES Asymmetric 84 % | 97 96 97 98 97 99 |
| LUMILE ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: ED FWHM / FWTM Efficiency Peak intensity | DS LUXEON 5050 Square LES Asymmetric 96 % 0.5 cd/lm 1 White DS LUXEON 5050 Square LES Asymmetric | 20 ³ 90 15 ⁴ |
| ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CONTREMENTINE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic | DS LUXEON 5050 Square LES Asymmetric 96 % 0.5 cd/lm 1 White DS LUXEON 5050 Square LES Asymmetric 84 % 0.4 cd/lm 1 | 20 ³ 90 15 ⁴ |
| ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CONTREMENTION ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | DS LUXEON 5050 Square LES Asymmetric 96 % 0.5 cd/lm 1 White DS LUXEON 5050 Square LES Asymmetric 84 % 0.4 cd/lm 1 White | 90° 90° 90° 90° 90° 90° 90° 90° 90° 90° |
| LUMILE ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: ED FWHM / FWTM Efficiency Peak intensity | DS LUXEON 5050 Square LES Asymmetric 96 % 0.5 cd/lm 1 White DS LUXEON 5050 Square LES Asymmetric 84 % 0.4 cd/lm 1 White | 200 - |
| LUMILE ED EWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: ED EWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: | DS LUXEON 5050 Square LES Asymmetric 96 % 0.5 cd/lm 1 White DS LUXEON 5050 Square LES Asymmetric 84 % 0.4 cd/lm 1 White | 20 ³ <u>80</u> <u>15</u> ⁴ |
| LUMILE ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: COMPLET ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | DS LUXEON 5050 Square LES Asymmetric 96 % 0.5 cd/lm 1 White DS LUXEON 5050 Square LES Asymmetric 84 % 0.4 cd/lm 1 White | 200 - |



| UMILEI | DS | 90° |
|---|---|---|
| LED | LUXEON 5050 Square LES | |
| FWHM / FWTM | Asymmetric | 73.6 |
| Efficiency | 84 % | 200 |
| Peak intensity | 0.5 cd/lm | 60* |
| LEDs/each optic | 1 | 20 |
| Light colour | White | 45* 400 |
| Required components: | | X |
| C17580_STRADA-2 | K2-SHD-WHT | 50 |
| | | 600 |
| | | 30* |
| | 05 | 13 ⁵ 13 ⁵ 13 ⁶ 13 ⁶ |
| | | 90* |
| | LUXEON V2 | 130 |
| FWHM / FWTM | Asymmetric | |
| Efficiency | 94 % | 504 |
| Peak intensity | 0.5 cd/lm | XX |
| LEDs/each optic | 1 | $X \times (X)$ |
| Light colour | White | 43* 400 |
| Required components: | | 500 |
| | | |
| | | 600 |
| | | 20* <u>700</u> 15 ⁵ 0 ⁶ 15* |
| Μ ΝΙCΗΙΛ | | 90* |
| LED | NV4WB35AM | 4 |
| FWHM / FWTM | Asymmetric | 75° |
| Efficiency | 96 % | |
| Peak intensity | 0.5 cd/lm | 504 |
| LEDs/each optic | 1 | 300 |
| Light colour | White | 457 |
| Required components: | | 400 |
| | | |
| | | |
| | | 600 |
| | | |
| ~~~~~ | | |
| | | 20 ⁴ 10 ⁵ 10 ⁵ |
| LED | NVSW219F | 90° 0° 237 |
| LED FWHM / FWTM | Asymmetric | 90° 30° 30° 30° 30° 30° 30° 30° 30° 30° 3 |
| LED FWHM / FWTM Efficiency | Asymmetric 81 % | |
| LED FWHM / FWTM Efficiency Peak intensity | Asymmetric | 50° 50° 50° |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic | Asymmetric 81 % 0.4 cd/lm 1 | 20 ⁴ 20 ⁵ 25 ² |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 81 % 0.4 cd/lm | 22 ⁴ 22 ³ 0 ⁴ 33 ⁵ |
| ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: | Asymmetric 81 % 0.4 cd/lm 1 | 22 ⁴ 22 ³ 0 ⁴ 23 ² |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: | Asymmetric 81 % 0.4 cd/lm 1 White | 20 ⁴ 0 ² 23 ² |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 81 % 0.4 cd/lm 1 White | 29 ⁴ 0 ² 13 ³ |



| Μ ΝΙCΗΙΛ | |
|---|---|
| | |
| LED NVSW519A | |
| FWHM / FWTM Asymmetric | 770 200 772 |
| Efficiency 82 % | |
| Peak intensity 0.4 cd/lm | 60* <u>210</u> 60* |
| LEDs/each optic 1 | |
| Light colour White | 40° |
| Required components: | |
| | |
| Protective plate, glass | |
| | 30* 3 <u>9</u> <u>8</u> ° <u>3</u> 0* |
| ΜΝΙCΗΙΛ | 87 |
| LED NVSW519A | |
| FWHM / FWTM Asymmetric | 75* |
| Efficiency 93 % | |
| Peak intensity 0.5 cd/lm | 60 ⁴ |
| LEDs/each optic 1 | 30 |
| Light colour White | a [,] a [,] |
| Required components: | 40 |
| | |
| | 20 |
| | 30° 00° 01° 01° |
| <i>Խ</i> NICHIA | |
| LED NVSxx19B/NVSxx19C | 90° 90° |
| FWHM / FWTM Asymmetric | 739 200 79 |
| Efficiency 94 % | |
| Peak intensity 0.6 cd/lm | 60 ⁴ 60 ⁴ |
| LEDs/each optic 1 | |
| Light colour White | 8° 40 8° |
| Required components: | |
| | 50 |
| | |
| | × / ••• |
| | 70 |
| OCDAM | 20. <u>50⁴</u> 50 ⁴ 50 ⁴ |
| OSRAM | 20 ⁴ 20 ⁴ 20 ⁴ 20 ⁴ 20 ⁴ |
| LED PrevaLED Brick HP 2x8 | 90° |
| LED PrevaLED Brick HP 2x8 FWHM / FWTM Asymmetric | 90° |
| LED PrevaLED Brick HP 2x8 FWHM / FWTM Asymmetric Efficiency 92 % | 90° |
| LEDPrevaLED Brick HP 2x8FWHM / FWTMAsymmetricEfficiency92 %Peak intensity0.5 cd/lm | 50° |
| LEDPrevaLED Brick HP 2x8FWHM / FWTMAsymmetricEfficiency92 %Peak intensity0.5 cd/lmLEDs/each optic1 | 92* 50* 60* 80* |
| LEDPrevaLED Brick HP 2x8FWHM / FWTMAsymmetricEfficiency92 %Peak intensity0.5 cd/lmLEDs/each optic1Light colourWhite | |
| LEDPrevaLED Brick HP 2x8FWHM / FWTMAsymmetricEfficiency92 %Peak intensity0.5 cd/lmLEDs/each optic1 | 92* 50* 60* 80* |
| LEDPrevaLED Brick HP 2x8FWHM / FWTMAsymmetricEfficiency92 %Peak intensity0.5 cd/lmLEDs/each optic1Light colourWhite | 92* 92* 351 |
| LEDPrevaLED Brick HP 2x8FWHM / FWTMAsymmetricEfficiency92 %Peak intensity0.5 cd/lmLEDs/each optic1Light colourWhite | 92* 92* 351 |



| OSRAM Opto Semiconductors LED | Duris S5 (2 chip) | |
|--|--|---|
| FWHM / FWTM | Asymmetric | 730 760 |
| Efficiency | 94 % | 210 |
| Peak intensity | 0.5 cd/lm | 60* |
| LEDs/each optic | 1 | 30 |
| Light colour | White | 45 ⁺ 400 65 ⁺ . |
| Required components: | | |
| | | XIIX |
| | | 800 |
| | | 700 |
| 000044 | | |
| OSRAM Opto Semiconductors | | 50°. |
| LED | Duris S8 | 4 |
| FWHM / FWTM | Asymmetric | 75* 100 75* |
| Efficiency | 86 % | |
| Peak intensity | 0.4 cd/lm | bo* |
| LEDs/each optic | 1 | X 30 |
| Light colour | White | 45° 5° |
| Required components: | | 400 |
| Drotostivo plati | | |
| Protective plate | a, glass | \times \wedge \times |
| | | 30* <u>640</u> 13 ³ 0 ⁶ 15* 30* |
| | | |
| OSRAM Opto Semiconductors | | 90 ⁴ |
| OSRAM Opto Semiconductors LED | OSCONIQ P 3737 (2W version) | 92 |
| Opto Semiconductors | OSCONIQ P 3737 (2W version) Asymmetric | 33° 200 75° |
| Opto Semiconductors | | 99 ⁴ 72 ⁶ 200 |
| Opto Semiconductors LED FWHM / FWTM | Asymmetric | 90 ⁴ 73 ⁵ 60 ⁴ 70 70 70 70 70 70 60 70 60 |
| opto Semiconductors LED FWHM / FWTM Efficiency | Asymmetric 93 % | 20 75 50 50 50 50 50 50 50 67 |
| opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 93 % 0.6 cd/lm | 200 200 200 200 60' 60' 60' 60' |
| opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic | Asymmetric 93 % 0.6 cd/lm 1 | 50° 50° 50° 50° 50° 50° 50° 50° 50° 50° |
| opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 93 % 0.6 cd/lm 1 | 200 200 200 200 001 001 001 001 |
| opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 93 % 0.6 cd/lm 1 | |
| opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 93 % 0.6 cd/lm 1 | 20 20 20 20 20 20 20 20 20 20 |
| opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: | Asymmetric 93 % 0.6 cd/lm 1 | 90 90 70 |
| opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: | Asymmetric 93 % 0.6 cd/lm 1 White | 90 90 70 |
| opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED | Asymmetric 93 % 0.6 cd/lm 1 White OSCONIQ P 3737 (3W version) | 90 90 70 |
| opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM | Asymmetric 93 % 0.6 cd/lm 1 White OSCONIQ P 3737 (3W version) Asymmetric | 90 90 90 90 90 90 90 90 90 90 90 90 90 9 |
| opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency | Asymmetric 93 % 0.6 cd/lm 1 White OSCONIQ P 3737 (3W version) Asymmetric 94 % | 90 90 70 |
| opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDS/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity | Asymmetric 93 % 0.6 cd/lm 1 White OSCONIQ P 3737 (3W version) Asymmetric 94 % 0.5 cd/lm | 90 90 90 90 90 90 90 90 90 90 90 90 90 9 |
| opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic | Asymmetric 93 % 0.6 cd/lm 1 White OSCONIQ P 3737 (3W version) Asymmetric 94 % 0.5 cd/lm 1 | 90 90 90 90 90 90 90 90 90 90 90 90 90 9 |
| opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 93 % 0.6 cd/lm 1 White OSCONIQ P 3737 (3W version) Asymmetric 94 % 0.5 cd/lm | 90 90 90 90 90 90 90 90 90 90 90 90 90 9 |
| opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic | Asymmetric 93 % 0.6 cd/lm 1 White OSCONIQ P 3737 (3W version) Asymmetric 94 % 0.5 cd/lm 1 | 90 90 90 90 90 90 90 90 90 90 90 90 90 9 |
| opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 93 % 0.6 cd/lm 1 White OSCONIQ P 3737 (3W version) Asymmetric 94 % 0.5 cd/lm 1 | 90 90 90 90 90 90 90 90 90 90 90 90 90 9 |
| opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 93 % 0.6 cd/lm 1 White OSCONIQ P 3737 (3W version) Asymmetric 94 % 0.5 cd/lm 1 | 90 90 90 90 90 90 90 90 90 90 90 90 90 9 |



| OSRAM Opto Semiconductors | | 90° 90° |
|--|--|---|
| LED | OSLON Square CSSRM2/CSSRM3 | ** |
| FWHM / FWTM | Asymmetric | 75° |
| Efficiency | 82 % | |
| Peak intensity | 0.5 cd/lm | 60 ⁴ 60 ⁴ |
| LEDs/each optic | 1 | |
| Light colour | White | |
| Required components: | White | 400 |
| | | 200 |
| Protective plate | e, glass | |
| | | 600 |
| | | 30° 33 ⁵ 0 ⁶ 35° |
| OSRAM Opto Semiconductors | | 90° |
| LED | OSLON Square CSSRM2/CSSRM3 | |
| FWHM / FWTM | Asymmetric | |
| Efficiency | 92 % | |
| Peak intensity | 0.5 cd/lm | |
| LEDs/each optic | 1 | |
| Light colour | White | 45° 400 65° |
| Required components: | | |
| | | |
| | | 60 |
| | | 30° 700 30° |
| | | |
| OSRAM | | 119 00 119 |
| OSRAM Opto Semiconductors | | 94 ¹ 15 ¹ 15 ¹ 15 ¹ 15 ¹ |
| Opto Semiconductors LED | OSLON Square CSSRM2/CSSRM3 | |
| Opto Semiconductors LED FWHM / FWTM | Asymmetric | 200 90° |
| ^{Opto Semiconductors} LED FWHM / FWTM Efficiency | Asymmetric 94 % | |
| opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity | Asymmetric 94 % 0.5 cd/lm | 20 |
| opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic | Asymmetric 94 % 0.5 cd/lm 1 | |
| opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 94 % 0.5 cd/lm | |
| opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic | Asymmetric 94 % 0.5 cd/lm 1 | |
| opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 94 % 0.5 cd/lm 1 | |
| opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 94 % 0.5 cd/lm 1 | |
| opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 94 % 0.5 cd/lm 1 | |
| opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: | Asymmetric 94 % 0.5 cd/lm 1 | |
| opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: | Asymmetric 94 % 0.5 cd/lm 1 White | |
| opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: | Asymmetric 94 % 0.5 cd/lm 1 White OSLON Square CSSRM2/CSSRM3 | |
| opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM | Asymmetric 94 % 0.5 cd/lm 1 White OSLON Square CSSRM2/CSSRM3 Asymmetric | |
| opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency | Asymmetric 94 % 0.5 cd/lm 1 White OSLON Square CSSRM2/CSSRM3 Asymmetric 85 % | |
| opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity | Asymmetric 94 % 0.5 cd/lm 1 White OSLON Square CSSRM2/CSSRM3 Asymmetric | |
| opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic | Asymmetric 94 % 0.5 cd/lm 1 White OSLON Square CSSRM2/CSSRM3 Asymmetric 85 % 0.5 cd/lm 1 | |
| opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 94 % 0.5 cd/lm 1 White OSLON Square CSSRM2/CSSRM3 Asymmetric 85 % 0.5 cd/lm | |
| opte Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: | Asymmetric 94 % 0.5 cd/lm 1 White OSLON Square CSSRM2/CSSRM3 Asymmetric 85 % 0.5 cd/lm 1 White | |
| opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 94 % 0.5 cd/lm 1 White OSLON Square CSSRM2/CSSRM3 Asymmetric 85 % 0.5 cd/lm 1 White | |
| opte Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: | Asymmetric 94 % 0.5 cd/lm 1 White OSLON Square CSSRM2/CSSRM3 Asymmetric 85 % 0.5 cd/lm 1 White | |



| PHILIP | S | | | FTL |
|--|---|---|---|---------------|
| LED | Fortimo FastFlex LED 2x8 DA G4 | + | * | |
| FWHM / FWTM | Asymmetric | • | 75* 100 | |
| Efficiency | 68 % | | | |
| Peak intensity | 0.4 cd/lm | | 504 200 | |
| LEDs/each optic | 1 | | | |
| Light colour | White | | 30 | |
| Required components | | | | N. |
| C17677_STRADA- | | | | |
| Protective pl | ate, glass | | 50° 10 [°] 65 | 15* 30' |
| PHILIP | S | | 50° | 90 |
| LED | Fortimo FastFlex LED 2x8 DA G4 | + | | |
| FWHM / FWTM | Asymmetric | | 726 200 | |
| Efficiency | 76 % | | | |
| Peak intensity | 0.5 cd/lm | | | 6 |
| LEDs/each optic | 1 | | × / - 30 | -TTX |
| Light colour | White | | 457 | |
| Required components | : | | 400 | |
| C17677_STRADA- | 2X2-SHD-BLK | | | |
| | | | | |
| | | | 600 | |
| | | | 30 15 ⁵ 0 ⁶ | 15* 30* |
| PHILIP | S | | 30* | 907 |
| LED | Fortimo FastFlex LED 2x8 DA G4 | + | | |
| FWHM / FWTM | Asymmetric | | 75* | |
| Efficiency | 65 % | | XXX | $\sim \gamma$ |
| Peak intensity | 0.4 cd/lm | | .50° 200 | |
| LEDs/each optic | 1 | | | |
| Light colour | White | | 45* 300 | |
| Required components | | | | |
| C17677_STRADA- | | | 400 | |
| | | | | |
| | | | | |
| | | | | |
| | 2 | | 30° 43° 0° | 13: 30 |
| PHILIP | | | 30° 52° 0° | 132 34 |
| LED | Fortimo FastFlex LED 2x8 DA G4 | + | 50° | 20 20 |
| LED FWHM / FWTM | Fortimo FastFlex LED 2x8 DA G4 Asymmetric | + | 50° | 32 30 |
| LED FWHM / FWTM Efficiency | Fortimo FastFlex LED 2x8 DA G4 Asymmetric 72 % | + | 90 ⁻ 25 ⁻ | |
| LED FWHM / FWTM Efficiency Peak intensity | Fortimo FastFlex LED 2x8 DA G4 Asymmetric 72 % 0.4 cd/lm | + | 99 ⁻ 22 ⁻ 0 ⁰ | 22 2 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic | Fortimo FastFlex LED 2x8 DA G4 Asymmetric 72 % 0.4 cd/lm 1 | + | 90°0 90°0 32°0 50° _0 | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Fortimo FastFlex LED 2x8 DA G4 Asymmetric 72 % 0.4 cd/lm 1 White | + | 29 ⁻ 25 ⁻ 25 ⁻ 25 ⁻ 5 ⁻ 5 ⁻ 5 ⁻ 5 ⁻ 5 ⁻ 5 ⁻ 5 ⁻ | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components | Fortimo FastFlex LED 2x8 DA G4 Asymmetric 72 % 0.4 cd/lm 1 White | + | | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Fortimo FastFlex LED 2x8 DA G4 Asymmetric 72 % 0.4 cd/lm 1 White | + | | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components | Fortimo FastFlex LED 2x8 DA G4 Asymmetric 72 % 0.4 cd/lm 1 White | + | | |

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| SAMSUN | IG | 90* 90* |
|---|--------------------------------------|---|
| LED | LH351C | E C |
| FWHM / FWTM | Asymmetric | 75° 100 75° |
| Efficiency | 83 % | |
| Peak intensity | 0.4 cd/lm | 607 200 667 |
| LEDs/each optic | 1 | 30 |
| Light colour | White | 45* |
| Required components: | | 40 |
| Protective plate | . glass | 200 |
| | | 30° (00 30° (10) (00) (10) (10) (10) (10) (10) (10) |
| SAMSUN | IG | |
| LED | LH351C | |
| FWHM / FWTM | Asymmetric | 75* 100 5* |
| Efficiency | 96 % | |
| Peak intensity | 0.5 cd/lm | 60* 60* |
| LEDs/each optic | 1 | |
| Light colour | White | 400 431 |
| Required components: | | |
| | | |
| | | 60 |
| | | 700 |
| | | 113 ³ 0 ⁶ 1 ⁵ |
| SAMSUN | IG | 90* 99* |
| LED | LH351D | |
| FWHM / FWTM | Asymmetric | 75* 100 75* |
| Efficiency | 95 % | 200 |
| Peak intensity | 0.5 cd/lm | 50* |
| LEDs/each optic | 1 | 30 |
| Light colour | White | 457 460 45* |
| Required components: | | X/T/X |
| | | 500 |
| | | |
| | | 30 ⁴ m ² 0 ⁵ 1 ⁴⁴ 30 ⁴ |
| SEOUL | | |
| SEOUL SEMICONDUCTOR | | 90* 90* |
| | | |
| LED | MJT 5050 | |
| LED FWHM / FWTM | Asymmetric | 200 |
| LED FWHM / FWTM Efficiency | Asymmetric 94 % | |
| LED FWHM / FWTM Efficiency Peak intensity | Asymmetric 94 % 0.5 cd/lm | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic | Asymmetric 94 % 0.5 cd/lm 1 | 20 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 94 % 0.5 cd/lm | 20 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic | Asymmetric 94 % 0.5 cd/lm 1 | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 94 % 0.5 cd/lm 1 | 20 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 94 % 0.5 cd/lm 1 | 20 |



| SEOUL | | 90* |
|---|------------------|---|
| LED | SEOUL DC 5050 6V | 4 |
| FWHM / FWTM | Asymmetric | 73% |
| Efficiency | 94 % | - And |
| Peak intensity | 0.5 cd/lm | 50° |
| LEDs/each optic | 1 | 30 |
| Light colour | White | 45* |
| Required components: | | |
| | | 500 |
| | | 600 |
| | | 30* |
| SEOUL | | 182 9 |
| SEOUL SEMICONDUCTOR | | 90* |
| LED | Z5M4 | 5 |
| FWHM / FWTM | Asymmetric | 750 100 |
| Efficiency | 82 % | |
| Peak intensity | 0.5 cd/lm | 60* |
| LEDs/each optic | 1 | |
| Light colour | White | 45* 400 |
| | | |
| Required components: | | |
| | | |
| Required components: Protective plat | e, glass | |
| | e, glass | 500 500 500 |



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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