

STRADELLA-IP-28-T2-PC

IESNA Type II (medium) beam, applicable for European P-class standard pedestrian lighting and M-class roads. Variant made from PC.

TECHNICAL SPECIFICATIONS:

| Dimensions | 100.0 x 100.0 mm |
|----------------------------|------------------|
| Height | 9.2 mm |
| Fastening | screw |
| Ingress protection classes | IP67 |
| ROHS compliant | yes 🛈 |



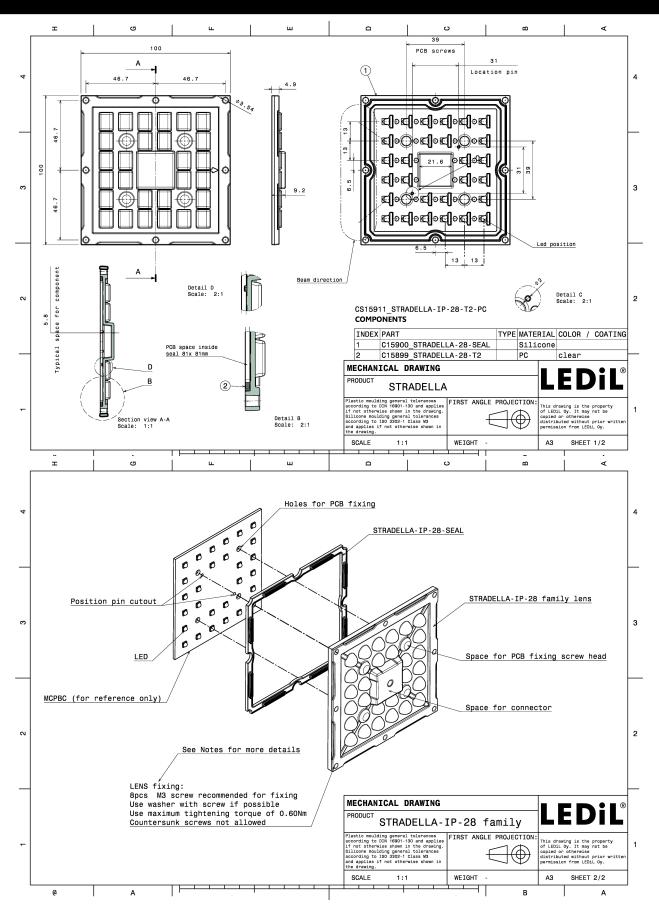
MATERIAL SPECIFICATIONS:

| Component | Туре | Material | Colour | Finish |
|-----------------------|------------|----------|--------|--------|
| STRADELLA-IP-28-T2-PC | Multi-lens | PC | clear | |
| STRADELLA-28-SEAL | Seal | Silicone | white | |

ORDERING INFORMATION:

| Component | | Qty in box | MOQ | MPQ | Box weight (kg) |
|--------------------------------|------------|------------|-----|-----|-----------------|
| CS15911_STRADELLA-IP-28-T2-PC | Multi-lens | 156 | 78 | 78 | 6.1 |
| » Box size: 476 x 273 x 247 mm | | | | | |

PRODUCT DATASHEET CS15911_STRADELLA-IP-28-T2-PC



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



| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component | HiQLED STR28 CR JE2835 4x7 xxx Asymmetric 90 % 1 cd/m 1 White nts: | 2° 1° 1° 1° 1° 1° 1° 1° 1° 1° 1 |
|---|---|--|
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component | HiQLED STR28 CR JК3030 4x7 xxx Asymmetric 90 % 1.1 cd/lm 1 White hts: | 92 73 60 67 90 67 90 67 90 67 90 67 90 67 90 97 97 97 97 97 97 97 97 97 97 |
| ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | QUICK FLUX STR28 XD2x14 xxx G8 Asymmetric 90 % 0.9 cd/m 1 White | |
| Required component LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component | QUICK FLUX STR28 XP2x14 xxx G7 Asymmetric 91 % 0.6 cd/lm 1 White | |
| | | 80 100 15 ¹ 0 ¹ 15 ¹ 30 ¹ |



| | QUICK FLUX STR28 XT2x14 xxx G5 | |
|--|--|---|
| FWHM / FWTM | Asymmetric | 75° 800 78° |
| Efficiency | 91 % | |
| Peak intensity | 0.6 cd/lm | 604 604 |
| LEDs/each optic | 1 | |
| Light colour | White | 5° 50 5° |
| Required componer | | |
| | | 000 |
| | | 1000 |
| | | \times \land \land \times |
| | | 30° 13 ⁵ 1890 15° 30°. |
| | | THY KHI |
| | | 90* 90* |
| LED | J Series 2835 | 73° |
| FWHM / FWTM | Asymmetric | |
| Efficiency | 90 % | . 50 ⁴ 400 50 ⁴ |
| Peak intensity | 1 cd/lm | |
| LEDs/each optic | 1 | 600 |
| Light colour | White | d' |
| Required componer | its: | 00 |
| | | 1000 |
| | | |
| | | 30° 1200 30° 30° |
| | | |
| | | |
| | | 80° |
| LED | J Series 3030 | 30° 32° 32° 90 90 |
| LED FWHM / FWTM | J Series 3030 Asymmetric | 92° 73° 000 73°. |
| LED FWHM / FWTM Efficiency | J Series 3030 Asymmetric 93 % | 97* 73* 60* 60* |
| LED FWHM / FWTM Efficiency Peak intensity | J Series 3030 Asymmetric 93 % 0.8 cd/m | 50° 73° 60° 60° |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic | J Series 3030 Asymmetric 93 % 0.8 cd/m 1 | 90° 92° 92° 92° 90° 90° 90° 90° 90° |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | J Series 3030 Asymmetric 93 % 0.8 cd/m 1 White | 5° 60 67 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic | J Series 3030 Asymmetric 93 % 0.8 cd/m 1 White | 90° 10° 10° 10° 10° 10° 10° 10° 1 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | J Series 3030 Asymmetric 93 % 0.8 cd/m 1 White | 9° 73° 60 6° 60 6° 6° 60 6° 6° 6° 6° 6° |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | J Series 3030 Asymmetric 93 % 0.8 cd/m 1 White | 80 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | J Series 3030 Asymmetric 93 % 0.8 cd/m 1 White | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer | J Series 3030 Asymmetric 93 % 0.8 cd/lm 1 White hts: | 80 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer | J Series 3030 Asymmetric 93 % 0.8 cd/lm 1 White hts: | 80 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer | J Series 3030 Asymmetric 93 % 0.8 cd/lm 1 White hts: | 80 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer | J Series 3030 Asymmetric 93 % 0.8 cd/lm 1 White hts: J Series 3030 Asymmetric | 80 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer | J Series 3030 Asymmetric 93 % 0.8 cd/lm 1 White hts: J Series 3030 Asymmetric 90 % | 80 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer | J Series 3030 Asymmetric 93 % 0.8 cd/m 1 White hts: J Series 3030 Asymmetric 90 % 1.1 cd/m | 80 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer | J Series 3030 Asymmetric 93 % 0.8 cd/m 1 White hts: J Series 3030 Asymmetric 90 % 1.1 cd/m 1 | 80 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer Required componer LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | J Series 3030 Asymmetric 93 % 0.8 cd/m 1 White hts: J Series 3030 Asymmetric 90 % 1.1 cd/m 1 White | 80 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer | J Series 3030 Asymmetric 93 % 0.8 cd/m 1 White hts: J Series 3030 Asymmetric 90 % 1.1 cd/m 1 White | 80 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer Required componer LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | J Series 3030 Asymmetric 93 % 0.8 cd/m 1 White hts: J Series 3030 Asymmetric 90 % 1.1 cd/m 1 White | 80 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer Required componer LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | J Series 3030 Asymmetric 93 % 0.8 cd/m 1 White hts: J Series 3030 Asymmetric 90 % 1.1 cd/m 1 White | 80 |



| | D | | 90* |
|---|---|--|---------------------|
| LED | XD16 | | 3 |
| FWHM / FWTM | Asymmetric | | 75* |
| Efficiency | 90 % | | |
| Peak intensity | 0.9 cd/lm | | 60° |
| LEDs/each optic | 1 | | |
| Light colour | White | | 451 |
| Required compone | ents: | | 600 |
| | | | |
| | | | 80 |
| | | | 30° 15° 0° 10° |
| | D | | INY YH |
| LED | XP-G3 | | 90* |
| EED FWHM / FWTM | Asymmetric | | 750 |
| Efficiency | 91 % | | 200 |
| Peak intensity | 0.6 cd/lm | | 60 ⁴ 300 |
| LEDs/each optic | 1 | | |
| Light colour | White | | 400 |
| Required compone | ents: | | 500 |
| | | | 500 |
| | | | 760 |
| | | | 30* |
| | | | 13, 80 15, |
| | | | |
| | D | | 90* |
| LED | XT-E | | |
| LED FWHM / FWTM | XT-E Asymmetric | | .99° .75° Du |
| LED FWHM / FWTM Efficiency | XT-E Asymmetric 91 % | | |
| LED FWHM / FWTM Efficiency Peak intensity | XT-E Asymmetric 91 % 0.6 cd/lm | | 75- |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic | XT-E Asymmetric 91 % 0.6 cd/lm 1 | | 25° 00 60° 00 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | XT-E Asymmetric 91 % 0.6 cd/lm 1 White | | 75- |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic | XT-E Asymmetric 91 % 0.6 cd/lm 1 White | | 25° 00 60° 00 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | XT-E Asymmetric 91 % 0.6 cd/lm 1 White | | 25° 00 60° 00 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | XT-E Asymmetric 91 % 0.6 cd/lm 1 White | | 25° 00 60° 00 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | XT-E Asymmetric 91 % 0.6 cd/lm 1 White | | 25° 00 60° 00 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone | XT-E Asymmetric 91 % 0.6 cd/lm 1 White ents: | | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone | XT-E Asymmetric 91 % 0.6 cd/lm 1 White ents: | | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone | XT-E Asymmetric 91 % 0.6 cd/lm 1 White ents: EDS LUXEON 3030 2D (Round LES) | | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone | XT-E Asymmetric 91 % 0.6 cd/lm 1 White ents: .EDS LUXEON 3030 2D (Round LES) Asymmetric | | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone | XT-E Asymmetric 91 % 0.6 cd/lm 1 White ents: EDS LUXEON 3030 2D (Round LES) Asymmetric 91 % | | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone MUMIL LED FWHM / FWTM Efficiency Peak intensity | XT-E Asymmetric 91 % 0.6 cd/lm 1 White ents: .EDS LUXEON 3030 2D (Round LES) Asymmetric | | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone | XT-E Asymmetric 91 % 0.6 cd/lm 1 White ents: LUXEON 3030 2D (Round LES) Asymmetric 91 % 0.9 cd/lm | | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Mediate Compone Efficiency Peak intensity LEDs/each optic | XT-E Asymmetric 91 % 0.6 cd/lm 1 White ents: LUXEON 3030 2D (Round LES) Asymmetric 91 % 0.9 cd/lm 1 White | | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Compose Equired compone Efficiency Peak intensity LEDs/each optic Light colour | XT-E Asymmetric 91 % 0.6 cd/lm 1 White ents: LUXEON 3030 2D (Round LES) Asymmetric 91 % 0.9 cd/lm 1 White | | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Compose Equired compone Efficiency Peak intensity LEDs/each optic Light colour | XT-E Asymmetric 91 % 0.6 cd/lm 1 White ents: LUXEON 3030 2D (Round LES) Asymmetric 91 % 0.9 cd/lm 1 White | | |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Component Required component Efficiency Peak intensity LEDs/each optic Light colour | XT-E Asymmetric 91 % 0.6 cd/lm 1 White ents: LUXEON 3030 2D (Round LES) Asymmetric 91 % 0.9 cd/lm 1 White | | |



| ØNICHI | | 90* 90* |
|--|--|--|
| LED | NF2x757G | |
| FWHM / FWTM | Asymmetric | 775 000 775 |
| Efficiency | 91 % | |
| Peak intensity | 0.7 cd/lm | 60* <u>400</u> 50* |
| LEDs/each optic | 1 | |
| Light colour | White | 45' 45' |
| Required compone | | 200 |
| | | |
| | | 1000 |
| | | 1220 |
| | | 30° 15° 30° |
| OSRAM Opto Semiconductors | | 90° 90° |
| LED | Duris S5 (2 chip) | |
| FWHM / FWTM | Asymmetric | 75° 200 75° |
| Efficiency | 92 % | |
| Peak intensity | 0.8 cd/lm | 80° / 80* |
| LEDs/each optic | 1 | 00 |
| Light colour | White | 5° 20 5° |
| Required compone | nts: | |
| | | 2000 |
| | | 1230 |
| | | 300 |
| | | 15° 1480 15° |
| | | |
| OSRAM Opto Semiconductors | | 90* 90* |
| OSRAM Opto Semiconductors | OSCONIQ S 3030 | 50° 50° |
| Opto Semiconductors | OSCONIQ S 3030 Asymmetric | 97* 97* 75* 200 72* |
| Opto Semiconductors LED | | 90° 73° 00 00 00 |
| opto Semiconductors LED FWHM / FWTM | Asymmetric | 90° 73° 80° 400 60× |
| opto Semiconductors LED FWHM / FWTM Efficiency | Asymmetric 92 % | 90° 73° 60° 90° 90° 90° 90° 90° 90° 90° 90° 90° 9 |
| opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity | Asymmetric 92 % 0.7 cd/lm | 90° 73° 60° 60° 60° 60° 60° |
| ^{opto Semiconductors} LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic | Asymmetric 92 % 0.7 cd/lm 1 White | 90° 73° 60° 60° 60° 60° 60° 60° 60° 60 |
| opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 92 % 0.7 cd/lm 1 White | 92* 73* 60 60 60 60 60 60 60 60 60 60 |
| opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 92 % 0.7 cd/lm 1 White | 92* 73* 40* 40* 40* 40* 5* 90* 5* 90* 5* 100* 10 |
| opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 92 % 0.7 cd/lm 1 White | |
| opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component | Asymmetric 92 % 0.7 cd/lm 1 White | 90 100 129 |
| opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer | Asymmetric 92 % 0.7 cd/lm 1 White nts: | 800 |
| opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component OSRAM Opto Semiconductors LED | Asymmetric 92 % 0.7 cd/lm 1 White nts: OSLON Square CSSRM2/CSSRM3 | 90 100 129 |
| opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component OSRAM Opto Semiconductors LED FWHM / FWTM | Asymmetric 92 % 0.7 cd/lm 1 White nts: OSLON Square CSSRM2/CSSRM3 Asymmetric | 90 100 129 |
| opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Opto Semiconductors LED FWHM / FWTM Efficiency | Asymmetric 92 % 0.7 cd/lm 1 White nts: OSLON Square CSSRM2/CSSRM3 Asymmetric 92 % | 80 300 129 |
| opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity | Asymmetric 92 % 0.7 cd/lm 1 White nts: OSLON Square CSSRM2/CSSRM3 Asymmetric 92 % 0.8 cd/lm | 909 1209 30 ⁴ 50 ⁴ 12 ³ 10 ⁴ 10 |
| opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic | Asymmetric 92 % 0.7 cd/lm 1 White nts: OSLON Square CSSRM2/CSSRM3 Asymmetric 92 % 0.8 cd/lm 1 | 909 1200 30 ⁴ 70 ⁴ |
| opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 92 % 0.7 cd/lm 1 White nts: OSLON Square CSSRM2/CSSRM3 Asymmetric 92 % 0.8 cd/lm 1 White | 909 1209 30 ⁴ 50 ⁴ 12 ³ 10 ⁴ 10 |
| opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic | Asymmetric 92 % 0.7 cd/lm 1 White nts: OSLON Square CSSRM2/CSSRM3 Asymmetric 92 % 0.8 cd/lm 1 White | 909 1200 30 ⁴ 70 ⁴ |
| opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 92 % 0.7 cd/lm 1 White nts: OSLON Square CSSRM2/CSSRM3 Asymmetric 92 % 0.8 cd/lm 1 White | 909 1209 30 ⁴ 50 ⁴ 12 ³ 10 ⁴ 10 |
| opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 92 % 0.7 cd/lm 1 White nts: OSLON Square CSSRM2/CSSRM3 Asymmetric 92 % 0.8 cd/lm 1 White | 90 100 100 100 100 100 100 100 1 |



| SAMS | UNG | 8* | 90* |
|---|--|--------------------|---------------------|
| LED | HiLOM SC28 (LH181B) | | |
| FWHM / FWTM | Asymmetric | 754 | 76! |
| Efficiency | 89 % | | |
| Peak intensity | 0.9 cd/lm | 50 ⁴ | 60* |
| LEDs/each optic | 1 | | |
| Light colour | White | 67 000 | 45* |
| Required compone | ents: | \times | |
| | | **** | |
| | | 2209 | |
| | | | 30* |
| 0.0.0.0 | | | -1 |
| SAMS | | 101 | 90* |
| | | | |
| LED | HiLOM SM28 (LM301B) | | |
| | | 73 | 75' |
| LED | HiLOM SM28 (LM301B) | 79 | -70" |
| LED FWHM / FWTM | HiLOM SM28 (LM301B) Asymmetric | 75 00 | -78° |
| LED FWHM / FWTM Efficiency | HiLOM SM28 (LM301B) Asymmetric 90 % | | FL* |
| LED FWHM / FWTM Efficiency Peak intensity | HiLOM SM28 (LM301B) Asymmetric 90 % 0.9 cd/lm | | - 78° 66* 85* |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic | HiLOM SM28 (LM301B) Asymmetric 90 % 0.9 cd/lm 1 White | 75° 600 65° 600 | 50* |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | HiLOM SM28 (LM301B) Asymmetric 90 % 0.9 cd/lm 1 White | 755 | 5.4 6.4 |
| LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | HiLOM SM28 (LM301B) Asymmetric 90 % 0.9 cd/lm 1 White | 60° 60° 60° | 6.4 |



PHOTOMETRIC DATA (SIMULATED):

| Μ ΝΙCΗΙΛ | | |
|---|---|--|
| LED | NVSW319B | 2 |
| FWHM / FWTM | Asymmetric | 75° |
| Efficiency | 84 % | |
| Peak intensity | 0.4 cd/lm | 50 ⁴ 50 ⁴ |
| LEDs/each optic | 1 | 300 |
| Light colour | White | 40 47 |
| Required components: | White | |
| rioquilou componente. | | |
| | | 00 |
| | | 700 |
| | | 30* 15 ⁵ 0 ⁶ 15 [*] 30* |
| ΜΝΙCΗΙΛ | | |
| | NV/C | 90* 90* |
| | NVSxx19B/NVSxx19C | 75° 75° |
| FWHM / FWTM | Asymmetric | |
| Efficiency | 87 % | 60° 60° |
| Peak intensity | 0.5 cd/lm | 400 |
| LEDs/each optic | 1 White | |
| Light colour | white | 45* 000 45* |
| Required components: | | \times |
| | | 200 |
| | | \times |
| | | 30* 1000 30* 30* |
| 000414 | | |
| OSRAM | | |
| Opto Semiconductors | | 90° |
| Opto Semiconductors | OSCONIQ C 2424 | 30 ⁴ |
| opto Semiconductors LED FWHM / FWTM | Asymmetric | 30 ⁻ 70 ⁻ |
| opto Semiconductors LED FWHM / FWTM Efficiency | Asymmetric 88 % | |
| opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity | Asymmetric 88 % 0.7 cd/lm | 202 |
| opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic | Asymmetric 88 % 0.7 cd/lm 1 | 20° 0° |
| opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 88 % 0.7 cd/lm | |
| opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic | Asymmetric 88 % 0.7 cd/lm 1 | |
| opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 88 % 0.7 cd/lm 1 | |
| opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 88 % 0.7 cd/lm 1 | 20* 00 20* 00 20* 00 200 00 20* 00 00 00 00 00 00 00 00 00 00 |
| opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 88 % 0.7 cd/lm 1 | 20- 10- 10- 10- 10- 10- 10- 10- 1 |
| opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour | Asymmetric 88 % 0.7 cd/lm 1 | 200 |
| opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: POSRAM Opto Semiconductors | Asymmetric 88 % 0.7 cd/lm 1 White | 200 |
| opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED | Asymmetric 88 % 0.7 cd/lm 1 White OSCONIQ P 3030 | 200 |
| opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM | Asymmetric 88 % 0.7 cd/lm 1 White OSCONIQ P 3030 Asymmetric | 200 |
| opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSSRAM Opto Semiconductors LED FWHM / FWTM Efficiency | Asymmetric 88 % 0.7 cd/lm 1 White OSCONIQ P 3030 Asymmetric 94 % | 200 |
| opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity | Asymmetric 88 % 0.7 cd/lm 1 White OSCONIQ P 3030 Asymmetric 94 % 0.7 cd/lm | 200 |
| opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: | Asymmetric 88 % 0.7 cd/lm 1 White OSCONIQ P 3030 Asymmetric 94 % 0.7 cd/lm 1 | 20 ⁻ 10 |
| opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: | Asymmetric 88 % 0.7 cd/lm 1 White OSCONIQ P 3030 Asymmetric 94 % 0.7 cd/lm | 200 |
| opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: | Asymmetric 88 % 0.7 cd/lm 1 White OSCONIQ P 3030 Asymmetric 94 % 0.7 cd/lm 1 | 200 100 100 100 100 100 100 100 |
| opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: | Asymmetric 88 % 0.7 cd/lm 1 White OSCONIQ P 3030 Asymmetric 94 % 0.7 cd/lm 1 | 20 ⁻ 10 |
| opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: | Asymmetric 88 % 0.7 cd/lm 1 White OSCONIQ P 3030 Asymmetric 94 % 0.7 cd/lm 1 | 200 100 100 100 100 100 100 100 |



PHOTOMETRIC DATA (SIMULATED):

| 0.0.0.0.0.0 | | |
|----------------------|--------------------|---|
| SAMSUN | IG | 90* |
| LED | LH231B | |
| FWHM / FWTM | Asymmetric | 73% |
| Efficiency | 88 % | |
| Peak intensity | 0.6 cd/lm | 50 ⁶ /6 |
| LEDs/each optic | 1 | |
| Light colour | White | |
| Required components: | | |
| | | |
| | | |
| | | 30* 300 30* 3 |
| SAMSUN | IG | |
| | | 90* 9 |
| LED FWHM / FWTM | LH351B | 75 |
| Efficiency | Asymmetric 92 % | 200 |
| Peak intensity | 0.5 cd/lm | 6.55 6 |
| LEDs/each optic | 1 | 40 |
| Light colour | White | 45' |
| Required components: | Winte | |
| noquirou componentei | | 00 |
| | | |
| | | 800 |
| | | 30° 15° 0° 15° 3 |
| SAMSUN | IG | 90* |
| LED | LH351C | |
| FWHM / FWTM | Asymmetric | 750 100 7 |
| Efficiency | 90 % | 200 |
| Peak intensity | 0.4 cd/lm | .63 ⁶ |
| LEDs/each optic | 1 | |
| Light colour | White | 45. |
| Required components: | | |
| | | 60 |
| | | 700 |
| | | 30* 900 3 |
| SEQUE | | 119 ³ 0 ⁴ 10 ⁴ |
| SEOUL SEMICONDUCTOR | | |
| LED | SEOUL DC 3030 | |
| FWHM / FWTM | Asymmetric | |
| Efficiency | 90 % | |
| Peak intensity | 0.6 cd/lm | |
| LEDs/each optic | 1 | |
| Light colour | White | |
| Required components: | | |
| | | |
| | | |
| | | |



PHOTOMETRIC DATA (SIMULATED):

| r | | |
|--|--|------------------|
| seoul sewconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: | Z5M1/Z5M2 Asymmetric 89 % 0.6 cd/lm 1 White | |
| | | 130° 0° 130° 30° |
| SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: | Z8Y19 Asymmetric 85 % 0.7 cd/m 1 White | |
| seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: | Z8Y22 Asymmetric 85 % 0.6 cd/m 1 White | |



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.

PRODUCT DATA USER AGREEMENT AND DISCLAIMER:

The measured data in the provided downloadable LEDiL Product Datasheets and Mechanical 2D-Drawings is rounded and provided as reference for planning. LEDiL Oy's optical specifications have been verified by conducting performance testing of the products in accordance with the company's quality system. The reported data are averaged results of multiple measurements with typical variation. LEDiL Oy reserves the right to without prior notification make changes and improvements to its products.

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