

## Module SLE ADV8 CRI90

Modules SLE advanced



### Product description

- \_ For spotlights and downlights
- \_ TIM variants for easy and fast assembly
- \_ For operating with SELV Driver suitable
- \_ Excellent thermal management by COB technology
- \_ Uniform radiation with Dam&Fill technology
- \_ Integrated LED module
- \_ Cooling required
- \_ Flexible operating mode
- \_ 4,000 K CRI90 module COI approved acc. to AS/NZS1680.2.5:1997
- \_ Long lifetime: 60,000 hours
- \_ 5 years guarantee (conditions at [www.tridonic.com](http://www.tridonic.com))

### Optical properties

- \_ Colour temperatures 2,700, 3,000, 3,500 and 4,000 K
- \_ Useful luminous flux 4,816 lm at Irated and tp = 25 °C
- \_ Efficacy of the LED module 159 lm/W at Irated and tp = 25 °C
- \_ High colour rendering index CRI > 90
- \_ Small colour tolerance (MacAdam 3) <sup>①</sup>

### Mechanical properties

- \_ Module dimension LES04, LES06, LES09, LES13, LES15, LES17 and LES21
- \_ Housing with Snap-On feature for easy reflector mounting
- \_ 50 mm housing with 35 mm mounting hole distance acc. to Zhaga
- \_ Fixing holes for M3 screws

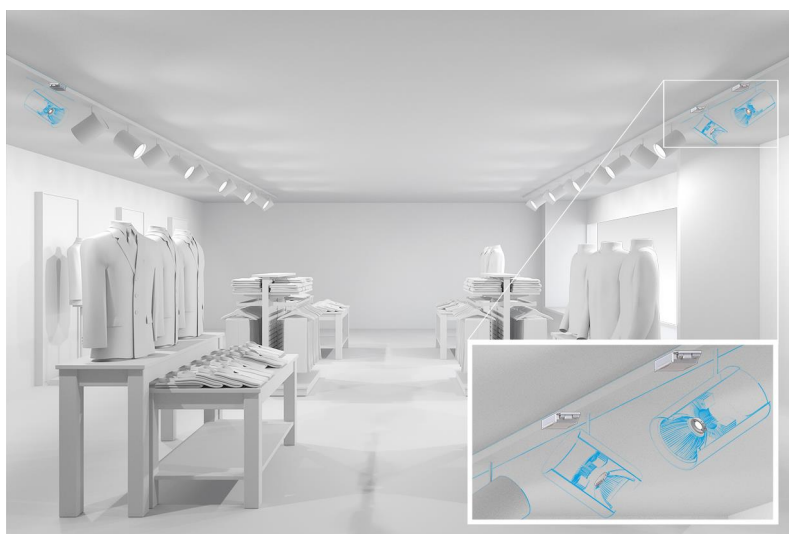
### System solution

- \_ Combine Tridonic's LED modules and dimmable drivers to achieve an outstanding system efficacy (configuration possible via <https://setbuilder.tridonic.com/>)

<sup>①</sup> Integral measurement over the complete module.

### Website

<http://www.tridonic.com/28004522>



Spotlights



Downlights



Linear



Area



Floor | Wall



Free-standing



Street



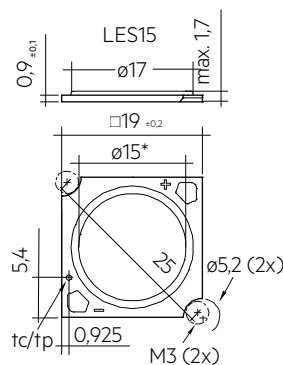
Decorative



High bay

Module SLE ADV8 CRI90  
Modules SLE advanced

The complete data sheet for this product is available in the Downloads section.



Ordering data

| Type                       | Article number | Colour temperature | Colour rendering index CRI | Packaging, carton | Weight per pc. |
|----------------------------|----------------|--------------------|----------------------------|-------------------|----------------|
| SLE 15mm 4000lm 940 H ADV8 | 28004522       | 4,000 K            | >90                        | 5 pc(s).          | 0.001 kg       |

**Technical data**

|                                                                       |                                                     |
|-----------------------------------------------------------------------|-----------------------------------------------------|
| Beam characteristic with housing                                      | 117°                                                |
| Beam characteristic without housing                                   | 360°                                                |
| Ambient temperature $t_a$                                             | -30 ... +80 °C                                      |
| $t_p$ rated                                                           | 65 °C                                               |
| $t_c$                                                                 | 105 °C                                              |
| I <sub>rated</sub> for LES04                                          | 180 mA                                              |
| I <sub>rated</sub> for LES06                                          | 300 mA                                              |
| I <sub>rated</sub> for LES09 800 lm                                   | 350 mA                                              |
| I <sub>rated</sub> for LES09 1,200 lm                                 | 350 mA                                              |
| I <sub>rated</sub> for LES09 2,600 lm                                 | 600 mA                                              |
| I <sub>rated</sub> for LES13                                          | 500 mA                                              |
| I <sub>rated</sub> for LES15                                          | 800 mA                                              |
| I <sub>rated</sub> for LES17                                          | 900 mA                                              |
| I <sub>rated</sub> for LES21                                          | 1,200 mA                                            |
| I <sub>max</sub> for LES04                                            | 220 mA                                              |
| I <sub>max</sub> for LES06                                            | 440 mA                                              |
| I <sub>max</sub> for LES09 800 lm                                     | 500 mA                                              |
| I <sub>max</sub> for LES09 1,200 lm                                   | 540 mA                                              |
| I <sub>max</sub> for LES09 2,600 lm                                   | 880 mA                                              |
| I <sub>max</sub> for LES13                                            | 1,000 mA                                            |
| I <sub>max</sub> for LES15                                            | 1,120 mA                                            |
| I <sub>max</sub> for LES17                                            | 1,300 mA                                            |
| I <sub>max</sub> for LES21                                            | 1,960 mA                                            |
| Max. perm. LF current ripple for LES04                                | 242 mA                                              |
| Max. perm. LF current ripple for LES06                                | 484 mA                                              |
| Max. perm. LF current ripple for LES09 800 lm                         | 550 mA                                              |
| Max. perm. LF current ripple for LES09 1,200 lm                       | 594 mA                                              |
| Max. perm. LF current ripple for LES09 2,600 lm                       | 968 mA                                              |
| Max. permissible LF current ripple for LES13                          | 1,100 mA                                            |
| Max. permissible LF current ripple for LES15                          | 1,232 mA                                            |
| Max. permissible LF current ripple for LES17                          | 1,430 mA                                            |
| Max. permissible LF current ripple for LES21                          | 2,156 mA                                            |
| Max. perm. peak current for LES04                                     | 260 mA / max. 8 ms                                  |
| Max. perm. peak current for LES06                                     | 520 mA / max. 8 ms                                  |
| Max. perm. peak current for LES09 800 lm                              | 600 mA / max. 8 ms                                  |
| Max. zul. Stoßstrom für LES09 1200 lm                                 | 640 mA / max. 8 ms                                  |
| Max. perm. peak current for LES09 2,600 lm                            | 1,050 mA / max. 8 ms                                |
| Max. permissible peak current for LES13                               | 1,200 mA / max. 8 ms                                |
| Max. permissible peak current for LES15                               | 1,340 mA / max. 8 ms                                |
| Max. permissible peak current for LES17                               | 1,560 mA / max. 8 ms                                |
| Max. permissible peak current for LES21                               | 2,350 mA / max. 8 ms                                |
| Max. working voltage for insulation SELV ®                            | 60 V                                                |
| Insulation test voltage                                               | 0.5 kV                                              |
| ESD classification                                                    | Severity level 4                                    |
| Risk group (IEC 62471) for LES04                                      | RG2 (E <sub>thr</sub> = 1808 lx, RG1 at d ≥ 1bd mm) |
| Risk group (IEC 62471) for LES06 (at I <sub>max</sub> )               | RG2 (E <sub>thr</sub> = 1808 lx, RG1 at d ≥ 610 mm) |
| Risk group (IEC 62471) for LES06 (at I ≤ 300 mA )                     | RG1                                                 |
| Risk group (IEC 62471) for LES09 800 lm                               | RG1                                                 |
| Risk group (IEC 62471) for LES09 1,200lm 3000K                        | RG1                                                 |
| Risk group (IEC 62471) for LES09 1,200lm 4000K (at I <sub>max</sub> ) | RG2 (E <sub>thr</sub> = 1808 lx, RG1 at d ≥ 770 mm) |
| Risk group (IEC 62471) for LES09 1,200lm 4000K (at I ≤ 350mA)         | RG2 (E <sub>thr</sub> = 1808 lx, RG1 at d ≥ 620 mm) |
| Risk group (IEC 62471) for LES09 2600lm 2700K (at I <sub>max</sub> )  | RG2 (E <sub>thr</sub> = 1808 lx, RG1 at d ≥ 830 mm) |
| Risk group (IEC 62471) for LES09 2600lm 2700K (at I ≤ 600 mA)         | RG1                                                 |
| Risk group (IEC 62471) for LES09 2600lm 3000K (at I <sub>max</sub> )  | RG2 (E <sub>thr</sub> = 1808 lx, RG1 at d ≥ 850 mm) |
| Risk group (IEC 62471) for LES09 2600lm 3000K (at I ≤ 600 mA)         | RG1                                                 |
| Risk group (IEC 62471) for LES09 2600lm 3500K (at I <sub>max</sub> )  | RG2 (E <sub>thr</sub> = 1808 lx, RG1 at d ≥ 870 mm) |
| Risk group (IEC 62471) for LES09 2600lm 3500K (at I ≤ 600 mA)         | RG2 (E <sub>thr</sub> = 1808 lx, RG1 at d ≥ 710 mm) |
| Risk group (IEC 62471) for LES09 2600lm 4000K (at I <sub>max</sub> )  | RG2 (E <sub>thr</sub> = 1808 lx, RG1 at d ≥ 870 mm) |
| Risk group (IEC 62471) for LES09 2600lm 4000K (at I ≤ 600 mA)         | RG2 (E <sub>thr</sub> = 1808 lx, RG1 at d ≥ 720 mm) |
| Risk group (EN 62471:2008) for LES13                                  | RG1                                                 |
| Risk group (IEC 62471) for LES15                                      | RG1                                                 |
| Risk group (IEC 62471) for LES17                                      | RG1                                                 |
| Risk group (IEC 62471) for LES21                                      | RG1                                                 |
| Classification acc. to IEC 62031                                      | Built-in                                            |
| Type of protection                                                    | IP00                                                |
| Lumen maintenance L70B50                                              | 60,000 h                                            |
| Guarantee (conditions at www.tridonic.com)                            | 5 Year(s)                                           |

**Approval marks**

## Standards

EN 62031, EN 62471, IEC 62717, IEC 61000-4-2, UL 8750

## Specific technical data

| Type <sup>®</sup>                                      | Article number  | Photometric code <sup>®</sup> | Useful luminous flux at tp = 25 °C <sup>®</sup> | Expected luminous flux at tp rated <sup>®</sup> | Typ. forward current | Min. forward voltage at tp rated | Max. forward voltage at tp = 25 °C | Power consumption Pon at tp = 25 °C <sup>®</sup> | Efficacy of the module at tp = 25 °C | Expected efficacy of the module at tp rated | Colour rendering index CRI |
|--------------------------------------------------------|-----------------|-------------------------------|-------------------------------------------------|-------------------------------------------------|----------------------|----------------------------------|------------------------------------|--------------------------------------------------|--------------------------------------|---------------------------------------------|----------------------------|
| <b>SLE 15mm 4000lm – Operating mode HE at 400 mA</b>   |                 |                               |                                                 |                                                 |                      |                                  |                                    |                                                  |                                      |                                             |                            |
| <b>SLE 15mm 4000lm 940 H ADV8</b>                      | <b>28004522</b> | 940/359                       | –                                               | 2,030 lm                                        | 400 mA               | 29.6 V                           | 35.2 V                             | –                                                | –                                    | 158 lm/W                                    | >90                        |
| <b>SLE 15mm 4000lm – Operating mode NM at 800 mA</b>   |                 |                               |                                                 |                                                 |                      |                                  |                                    |                                                  |                                      |                                             |                            |
| <b>SLE 15mm 4000lm 940 H ADV8</b>                      | <b>28004522</b> | 940/359                       | 3,458 lm                                        | 3,842 lm                                        | 800 mA               | 30.8 V                           | 36.6 V                             | 27.1 W                                           | 153 lm/W                             | 144 lm/W                                    | >90                        |
| <b>SLE 15mm 4000lm – Operating mode HO at 1,050 mA</b> |                 |                               |                                                 |                                                 |                      |                                  |                                    |                                                  |                                      |                                             |                            |
| <b>SLE 15mm 4000lm 940 H ADV8</b>                      | <b>28004522</b> | 940/359                       | –                                               | 5,018 lm                                        | 1,050 mA             | 31.3 V                           | 37.3 V                             | –                                                | –                                    | 140 lm/W                                    | >90                        |

② If mounted with M4 screws with 7 mm head diameter.

③ HE ... High Efficiency, NM ... Nominal Mode, HO ... High Output.

④ The detailed explanation, see data sheet section 1.1.

⑤ Tolerance of useful light flux - 0 % / + 15 %. Measurement uncertainty ± 10 %.

⑥ Measurement uncertainty ± 10 %. Based on calculation.

⑦ Tolerance of power consumption Pon ± 10 %. Measurement uncertainty ± 5 %.