

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 <https://www.tridonic.com/manufacture-guarantee-conditions>)

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) ^①

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

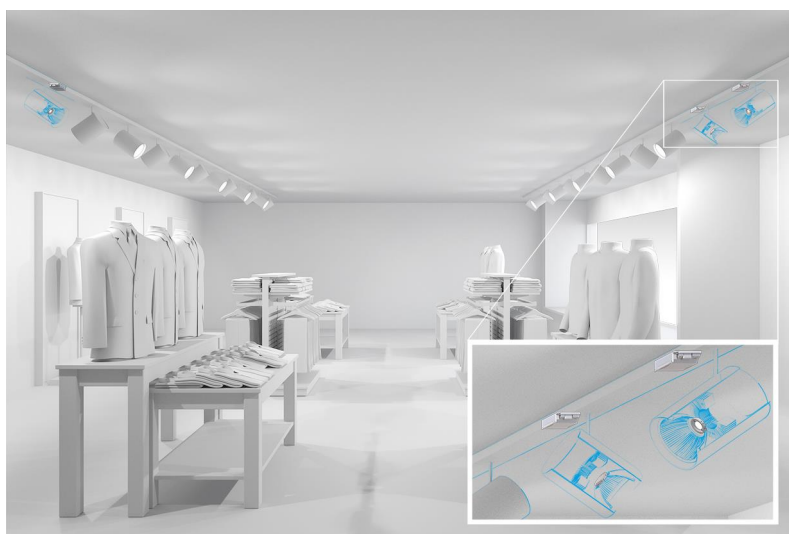
System solution

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

^① Integral measurement over the complete module.

Website

<http://www.tridonic.com/28004601>



Spotlights



Downlights



Linear



Area



Floor | Wall



Free-standing



Street



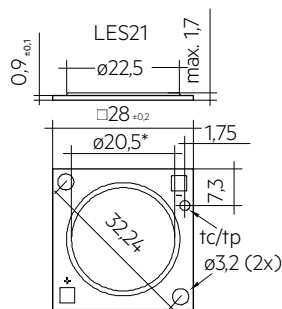
Decorative



High bay

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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 21mm 6000lm 940 H ADV8	28004601	4,000 K	>90	5 pc(s).	0.002 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 _{rated} for LES04	180 mA
I _{rated} for LES06	300 mA
I _{rated} for LES09 800 lm	350 mA
I _{rated} for LES09 1,200 lm	350 mA
I _{rated} for LES09 2,600 lm	600 mA
I _{rated} for LES13	500 mA
I _{rated} for LES15	800 mA
I _{rated} for LES17	900 mA
I _{rated} for LES21	1,200 mA
I _{max} for LES04	220 mA
I _{max} for LES06	440 mA
I _{max} for LES09 800 lm	500 mA
I _{max} for LES09 1,200 lm	540 mA
I _{max} for LES09 2,600 lm	880 mA
I _{max} for LES13	1,000 mA
I _{max} for LES15	1,120 mA
I _{max} for LES17	1,300 mA
I _{max} 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 _{thr} = 1808 lx, RG1 at d ≥ 1bd mm)
Risk group (IEC 62471) for LES06 (at I _{max})	RG2 (E _{thr} = 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 _{max})	RG2 (E _{thr} = 1808 lx, RG1 at d ≥ 770 mm)
Risk group (IEC 62471) for LES09 1,200lm 4000K (at I ≤ 350mA)	RG2 (E _{thr} = 1808 lx, RG1 at d ≥ 620 mm)
Risk group (IEC 62471) for LES09 2600lm 2700K (at I _{max})	RG2 (E _{thr} = 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 _{max})	RG2 (E _{thr} = 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 _{max})	RG2 (E _{thr} = 1808 lx, RG1 at d ≥ 870 mm)
Risk group (IEC 62471) for LES09 2600lm 3500K (at I ≤ 600 mA)	RG2 (E _{thr} = 1808 lx, RG1 at d ≥ 710 mm)
Risk group (IEC 62471) for LES09 2600lm 4000K (at I _{max})	RG2 (E _{thr} = 1808 lx, RG1 at d ≥ 870 mm)
Risk group (IEC 62471) for LES09 2600lm 4000K (at I ≤ 600 mA)	RG2 (E _{thr} = 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 [®]	Article number	Photometric code [®]	Useful luminous flux Φ_v at $t_p = 25^\circ\text{C}$	Expected luminous flux Φ_v at t_p rated [®]	Typ. forward current	Min. forward voltage at t_p rated	Max. forward voltage at $t_p = 25^\circ\text{C}$	Power consumption P_{on} at $t_p = 25^\circ\text{C}$ ^⑦	Efficacy of the module at $t_p = 25^\circ\text{C}$	Expected efficacy of the module at t_p rated	Colour rendering index CRI
SLE 21mm 6000lm – Operating mode HE at 700 mA											
SLE 21mm 6000lm 940 H ADV8	28004601	940/359	–	3,655 lm	700 mA	29.4 V	35.3 V	–	–	163 lm/W	>90
SLE 21mm 6000lm – Operating mode NM at 1,200 mA											
SLE 21mm 6000lm 940 H ADV8	28004601	940/359	5,438 lm	6,072 lm	1,200 mA	30.3 V	36.2 V	40.3 W	162 lm/W	154 lm/W	>90
SLE 21mm 6000lm – Operating mode HO at 1,800 mA											
SLE 21mm 6000lm 940 H ADV8	28004601	940/359	–	8,856 lm	1,800 mA	31.1 V	37.3 V	–	–	145 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 $\pm 10\%$.⑥ Measurement uncertainty $\pm 10\%$. Based on calculation.⑦ Tolerance of power consumption $P_{on} \pm 10\%$. Measurement uncertainty $\pm 5\%$.