

Module SLE ADV8

Modules SLE advanced

Product description

- For spotlights and downlights
- TIM variants for easy and fast assembly
- For operating with SELV Driver
- Excellent thermal management by COB technology
- Uniform radiation with Dam&Fill technology
- Built-in LED module
- Cooling required
- Flexible operating modes
- Long lifetime: 60,000 hours
- 5 years guarantee (conditions at www.tridonic.com)

Optical properties

- Colour temperatures 2,700 K, 3,000 K, 3,500 K and 4,000 K
- Useful luminous flux 7,725 lm at Irated and tp = 25 °C
- Efficacy of the LED module 192 lm/W at Irated and tp = 25 °C
- High colour rendering index CRI > 80
- Small colour tolerance MacAdam 3

Mechanical properties

- Module dimension 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/>)



Standards, page 14

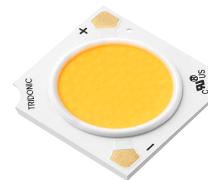
Colour temperatures and tolerances, page 25



LES17 with housing



LES21 with housing



LES13



LES17





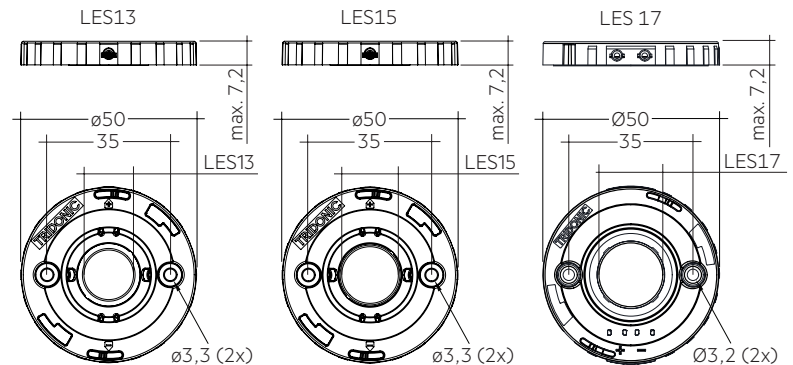
Module SLE ADV8

Modules SLE advanced

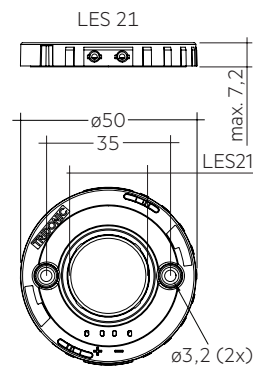
Technical data

Colour consistency [®]	3 SDCM
ESD classification	severity level 4
Classification acc. to IEC 62031	Built-in
Type of protection	IP00
Lumen maintenance L70B50	60,000 h
Guarantee	5 year(s)

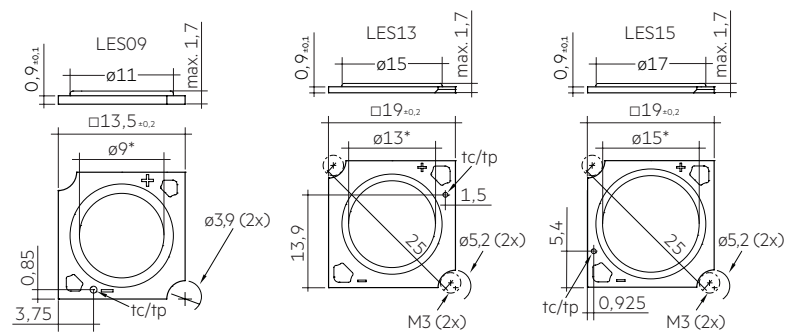
[®] Integral measurement over the complete module.



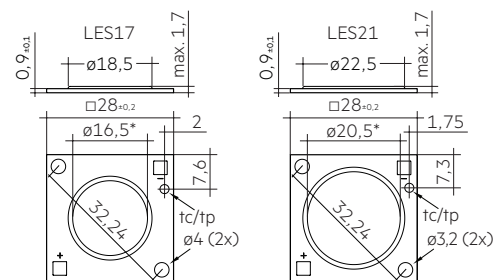
Dimensions in mm, *optical LES



Dimensions in mm, *optical LES



Dimensions in mm, *optical LES



Dimensions in mm, *optical LES

Module SLE ADV8

Modules SLE advanced

Ordering data

Type	Article number	Packaging	Weight per pc.
SLE 09mm 800lm 830 R ADV8	28004543	20 pc(s).	0.001 kg
SLE 09mm 800lm 840 R ADV8	28004544	20 pc(s).	0.001 kg
SLE 09mm 1200lm 830 R ADV8	28004549	20 pc(s).	0.001 kg
SLE 09mm 1200lm 840 R ADV8	28004550	20 pc(s).	0.001 kg
SLE 13mm 3000lm 827 R ADV8	28004562	20 pc(s).	0.001 kg
SLE 13mm 3000lm 830 R ADV8	28004563	20 pc(s).	0.001 kg
SLE 13mm 3000lm 835 R ADV8	28004564	20 pc(s).	0.001 kg
SLE 13mm 3000lm 840 R ADV8	28004565	20 pc(s).	0.001 kg
SLE 13mm 3000lm 830 H ADV8	28004570	5 pc(s).	0.001 kg
SLE 13mm 3000lm 840 H ADV8	28004571	5 pc(s).	0.001 kg
SLE 15mm 4000lm 827 R ADV8	28004527	20 pc(s).	0.001 kg
SLE 15mm 4000lm 830 R ADV8	28004528	20 pc(s).	0.001 kg
SLE 15mm 4000lm 835 R ADV8	28004529	20 pc(s).	0.001 kg
SLE 15mm 4000lm 840 R ADV8	28004530	20 pc(s).	0.001 kg
SLE 15mm 4000lm 830 H ADV8	28004519	5 pc(s).	0.001 kg
SLE 15mm 4000lm 840 H ADV8	28004520	5 pc(s).	0.001 kg
SLE 15mm 4000lm 830 H ADV8 T	28004523	5 pc(s).	0.001 kg
SLE 15mm 4000lm 840 H ADV8 T	28004524	5 pc(s).	0.001 kg
SLE 17mm 5000lm 827 R ADV8	28004587	10 pc(s).	0.002 kg
SLE 17mm 5000lm 830 R ADV8	28004588	10 pc(s).	0.002 kg
SLE 17mm 5000lm 835 R ADV8	28004589	10 pc(s).	0.002 kg
SLE 17mm 5000lm 840 R ADV8	28004590	10 pc(s).	0.002 kg
SLE 17mm 5000lm 827 H ADV8	28004574	5 pc(s).	0.002 kg
SLE 17mm 5000lm 830 H ADV8	28004575	5 pc(s).	0.002 kg
SLE 17mm 5000lm 835 H ADV8	28004576	5 pc(s).	0.002 kg
SLE 17mm 5000lm 840 H ADV8	28004577	5 pc(s).	0.002 kg
SLE 17mm 5000lm 830 H ADV8 T	28004582	5 pc(s).	0.003 kg
SLE 17mm 5000lm 840 H ADV8 T	28004583	5 pc(s).	0.003 kg
SLE 21mm 6000lm 827 R ADV8	28004606	10 pc(s).	0.002 kg
SLE 21mm 6000lm 830 R ADV8	28004607	10 pc(s).	0.002 kg
SLE 21mm 6000lm 835 R ADV8	28004608	10 pc(s).	0.002 kg
SLE 21mm 6000lm 840 R ADV8	28004611	10 pc(s).	0.002 kg
SLE 21mm 6000lm 827 H ADV8	28004595	5 pc(s).	0.002 kg
SLE 21mm 6000lm 830 H ADV8	28004596	5 pc(s).	0.002 kg
SLE 21mm 6000lm 840 H ADV8	28004597	5 pc(s).	0.002 kg
SLE 21mm 6000lm 830 H ADV8 T	28004602	5 pc(s).	0.003 kg
SLE 21mm 6000lm 840 H ADV8 T	28004603	5 pc(s).	0.003 kg

Photometric data

Type ^①	Colour temperature	Photometric Code ^②	Useful luminous flux at tp = 25 °C ^③	Luminous flux at tp rated ^④			Efficacy of the module at tp = 25 °C	Expected efficacy of the module at tp rated	Beam characteristic	Colour rendering index CRI
				Min.	Typ.	Max.				
SLE 09mm 800lm – Operating mode HE at 250 mA										
SLE 09mm 800lm 830 R ADV8	3,000 K	830/359	–	1,186 lm	1,317 lm	1,449 lm	–	156 lm/W	360°	>80
SLE 09mm 800lm 840 R ADV8	4,000 K	840/359	–	1,254 lm	1,394 lm	1,533 lm	–	165 lm/W	360°	>80
SLE 09mm 800lm – Operating mode NM at 350 mA										
SLE 09mm 800lm 830 R ADV8	3,000 K	830/359	1,993 lm	1,663 lm	1,848 lm	2,033 lm	161 lm/W	151 lm/W	360°	>80
SLE 09mm 800lm 840 R ADV8	4,000 K	840/359	2,092 lm	1,732 lm	1,925 lm	2,117 lm	168 lm/W	157 lm/W	360°	>80
SLE 09mm 800lm – Operating mode HO at 450 mA										
SLE 09mm 800lm 830 R ADV8	3,000 K	830/359	–	2,019 lm	2,243 lm	2,468 lm	–	140 lm/W	360°	>80
SLE 09mm 800lm 840 R ADV8	4,000 K	840/359	–	2,146 lm	2,385 lm	2,623 lm	–	148 lm/W	360°	>80
SLE 09mm 1200lm – Operating mode HE at 250 mA										
SLE 09mm 1200lm 830 R ADV8	3,000 K	830/359	–	1,231 lm	1,368 lm	1,505 lm	–	166 lm/W	360°	>80
SLE 09mm 1200lm 840 R ADV8	4,000 K	840/359	–	1,286 lm	1,429 lm	1,572 lm	–	174 lm/W	360°	>80
SLE 09mm 1200lm – Operating mode NM at 350 mA										
SLE 09mm 1200lm 830 R ADV8	3,000 K	830/359	1,999 lm	1,691 lm	1,879 lm	2,067 lm	170 lm/W	160 lm/W	360°	>80
SLE 09mm 1200lm 840 R ADV8	4,000 K	840/359	2,133 lm	1,787 lm	1,986 lm	2,184 lm	180 lm/W	169 lm/W	360°	>80
SLE 09mm 1200lm – Operating mode HO at 500 mA										
SLE 09mm 1200lm 830 R ADV8	3,000 K	830/359	–	2,318 lm	2,576 lm	2,834 lm	–	149 lm/W	360°	>80
SLE 09mm 1200lm 840 R ADV8	4,000 K	840/359	–	2,402 lm	2,669 lm	2,936 lm	–	154 lm/W	360°	>80
SLE 13mm 3000lm – Operating mode HE at 350 mA										
SLE 13mm 3000lm 827 R ADV8	2,700 K	827/359	–	1,692 lm	1,881 lm	2,069 lm	–	165 lm/W	360°	>80
SLE 13mm 3000lm 830 R ADV8	3,000 K	830/359	–	1,768 lm	1,964 lm	2,160 lm	–	172 lm/W	360°	>80
SLE 13mm 3000lm 835 R ADV8	3,500 K	835/359	–	1,841 lm	2,045 lm	2,250 lm	–	179 lm/W	360°	>80
SLE 13mm 3000lm 840 R ADV8	4,000 K	840/359	–	1,867 lm	2,075 lm	2,282 lm	–	182 lm/W	360°	>80
SLE 13mm 3000lm 830 H ADV8	3,000 K	830/359	–	1,768 lm	1,964 lm	2,160 lm	–	172 lm/W	117°	>80
SLE 13mm 3000lm 840 H ADV8	4,000 K	840/359	–	1,867 lm	2,075 lm	2,282 lm	–	182 lm/W	117°	>80
SLE 13mm 3000lm – Operating mode NM at 500 mA										
SLE 13mm 3000lm 827 R ADV8	2,700 K	827/359	2,924 lm	2,443 lm	2,714 lm	2,985 lm	174 lm/W	164 lm/W	360°	>80
SLE 13mm 3000lm 830 R ADV8	3,000 K	830/359	3,039 lm	2,538 lm	2,820 lm	3,102 lm	181 lm/W	171 lm/W	360°	>80
SLE 13mm 3000lm 835 R ADV8	3,500 K	835/359	3,057 lm	2,567 lm	2,852 lm	3,137 lm	183 lm/W	173 lm/W	360°	>80
SLE 13mm 3000lm 840 R ADV8	4,000 K	840/359	3,102 lm	2,623 lm	2,915 lm	3,206 lm	187 lm/W	176 lm/W	360°	>80
SLE 13mm 3000lm 830 H ADV8	3,000 K	830/359	2,531 lm	2,538 lm	2,820 lm	3,102 lm	181 lm/W	171 lm/W	117°	>80
SLE 13mm 3000lm 840 H ADV8	4,000 K	840/359	2,584 lm	2,623 lm	2,915 lm	3,206 lm	187 lm/W	176 lm/W	117°	>80
SLE 13mm 3000lm – Operating mode HO at 900 mA										
SLE 13mm 3000lm 827 R ADV8	2,700 K	827/359	–	4,030 lm	4,477 lm	4,925 lm	–	142 lm/W	360°	>80
SLE 13mm 3000lm 830 R ADV8	3,000 K	830/359	–	4,217 lm	4,685 lm	5,154 lm	–	149 lm/W	360°	>80
SLE 13mm 3000lm 835 R ADV8	3,500 K	835/359	–	4,373 lm	4,859 lm	5,345 lm	–	154 lm/W	360°	>80
SLE 13mm 3000lm 840 R ADV8	4,000 K	840/359	–	4,432 lm	4,925 lm	5,417 lm	–	156 lm/W	360°	>80
SLE 13mm 3000lm 830 H ADV8	3,000 K	830/359	–	4,217 lm	4,685 lm	5,154 lm	–	149 lm/W	117°	>80
SLE 13mm 3000lm 840 H ADV8	4,000 K	840/359	–	4,432 lm	4,925 lm	5,417 lm	–	156 lm/W	117°	>80

^① HE ... high efficiency, NM ... nominal mode, HO ... high output.

^② The detailed explanation, see data sheet section 1.1.

^③ Tolerance of useful light flux - 0 % / + 15 %. Measurement uncertainty ± 10 %.

^④ Measurement uncertainty ± 10 %. Based on calculation.

Photometric data

Type ^①	Colour temperature	Photometric Code ^②	Useful luminous flux at tp = 25 °C ^③	Luminous flux at tp rated ^④			Efficacy of the module at tp = 25 °C	Expected efficacy of the module at tp rated	Beam characteristic	Colour rendering index CRI
				Min.	Typ.	Max.				
SLE 15mm 4000lm – Operating mode HE at 400 mA										
SLE 15mm 4000lm 827 R ADV8	2,700 K	827/359	–	1,960 lm	2,178 lm	2,395 lm	–	169 lm/W	360°	>80
SLE 15mm 4000lm 830 R ADV8	3,000 K	830/359	–	2,032 lm	2,258 lm	2,484 lm	–	176 lm/W	360°	>80
SLE 15mm 4000lm 835 R ADV8	3,500 K	835/359	–	2,103 lm	2,337 lm	2,571 lm	–	182 lm/W	360°	>80
SLE 15mm 4000lm 840 R ADV8	4,000 K	840/359	–	2,139 lm	2,377 lm	2,614 lm	–	185 lm/W	360°	>80
SLE 15mm 4000lm 830 H ADV8	3,000 K	830/359	–	2,032 lm	2,258 lm	2,484 lm	–	176 lm/W	117°	>80
SLE 15mm 4000lm 840 H ADV8	4,000 K	840/359	–	2,139 lm	2,377 lm	2,614 lm	–	185 lm/W	117°	>80
SLE 15mm 4000lm 830 H ADV8 T	3,000 K	830/359	–	2,032 lm	2,258 lm	2,484 lm	–	176 lm/W	117°	>80
SLE 15mm 4000lm 840 H ADV8 T	4,000 K	840/359	–	2,139 lm	2,377 lm	2,614 lm	–	185 lm/W	117°	>80
SLE 15mm 4000lm – Operating mode NM at 800 mA										
SLE 15mm 4000lm 827 R ADV8	2,700 K	827/359	4,427 lm	3,752 lm	4,169 lm	4,585 lm	166 lm/W	156 lm/W	360°	>80
SLE 15mm 4000lm 830 R ADV8	3,000 K	830/359	4,659 lm	3,908 lm	4,342 lm	4,777 lm	173 lm/W	162 lm/W	360°	>80
SLE 15mm 4000lm 835 R ADV8	3,500 K	835/359	4,736 lm	3,945 lm	4,383 lm	4,821 lm	175 lm/W	164 lm/W	360°	>80
SLE 15mm 4000lm 840 R ADV8	4,000 K	840/359	4,829 lm	4,021 lm	4,468 lm	4,915 lm	178 lm/W	167 lm/W	360°	>80
SLE 15mm 4000lm 830 H ADV8	3,000 K	830/359	3,881 lm	3,908 lm	4,342 lm	4,777 lm	173 lm/W	162 lm/W	117°	>80
SLE 15mm 4000lm 840 H ADV8	4,000 K	840/359	4,023 lm	4,021 lm	4,468 lm	4,915 lm	178 lm/W	167 lm/W	117°	>80
SLE 15mm 4000lm 830 H ADV8 T	3,000 K	830/359	3,881 lm	3,908 lm	4,342 lm	4,777 lm	173 lm/W	162 lm/W	117°	>80
SLE 15mm 4000lm 840 H ADV8 T	4,000 K	840/359	4,023 lm	4,021 lm	4,468 lm	4,915 lm	178 lm/W	167 lm/W	117°	>80
SLE 15mm 4000lm – Operating mode HO at 1.050 mA										
SLE 15mm 4000lm 827 R ADV8	2,700 K	827/359	–	4,798 lm	5,331 lm	5,864 lm	–	149 lm/W	360°	>80
SLE 15mm 4000lm 830 R ADV8	3,000 K	830/359	–	5,013 lm	5,570 lm	6,127 lm	–	156 lm/W	360°	>80
SLE 15mm 4000lm 835 R ADV8	3,500 K	835/359	–	5,196 lm	5,773 lm	6,351 lm	–	161 lm/W	360°	>80
SLE 15mm 4000lm 840 R ADV8	4,000 K	840/359	–	5,257 lm	5,841 lm	6,425 lm	–	163 lm/W	360°	>80
SLE 15mm 4000lm 830 H ADV8	3,000 K	830/359	–	5,013 lm	5,570 lm	6,127 lm	–	156 lm/W	117°	>80
SLE 15mm 4000lm 840 H ADV8	4,000 K	840/359	–	5,257 lm	5,841 lm	6,425 lm	–	163 lm/W	117°	>80
SLE 15mm 4000lm 830 H ADV8 T	3,000 K	830/359	–	5,013 lm	5,570 lm	6,127 lm	–	156 lm/W	117°	>80
SLE 15mm 4000lm 840 H ADV8 T	4,000 K	840/359	–	5,257 lm	5,841 lm	6,425 lm	–	163 lm/W	117°	>80

① HE ... high efficiency, NM ... nominal mode, HO ... high output.

② The detailed explanation, see data sheet section 1.1.

③ Tolerance of useful light flux - 0 % / + 15 %. Measurement uncertainty ± 10 %.

④ Measurement uncertainty ± 10 %. Based on calculation.

Photometric data

Type ^①	Colour temperature	Photometric Code ^②	Useful luminous flux at tp = 25 °C ^③	Luminous flux at tp rated ^④			Efficacy of the module at tp = 25 °C	Expected efficacy of the module at tp rated	Beam characteristic	Colour rendering index CRI
				Min.	Typ.	Max.				
SLE 17mm 5000lm – Operating mode HE at 450 mA										
SLE 17mm 5000lm 827 R ADV8	2,700 K	827/359	–	2,212 lm	2,458 lm	2,704 lm	–	172 lm/W	360°	>80
SLE 17mm 5000lm 830 R ADV8	3,000 K	830/359	–	2,300 lm	2,556 lm	2,812 lm	–	179 lm/W	360°	>80
SLE 17mm 5000lm 835 R ADV8	3,500 K	835/359	–	2,389 lm	2,654 lm	2,920 lm	–	186 lm/W	360°	>80
SLE 17mm 5000lm 840 R ADV8	4,000 K	840/359	–	2,430 lm	2,700 lm	2,970 lm	–	189 lm/W	360°	>80
SLE 17mm 5000lm 827 H ADV8	2,700 K	827/359	–	2,212 lm	2,458 lm	2,704 lm	–	172 lm/W	117°	>80
SLE 17mm 5000lm 830 H ADV8	3,000 K	830/359	–	2,300 lm	2,556 lm	2,812 lm	–	179 lm/W	117°	>80
SLE 17mm 5000lm 835 H ADV8	3,500 K	835/359	–	2,389 lm	2,654 lm	2,920 lm	–	186 lm/W	117°	>80
SLE 17mm 5000lm 840 H ADV8	4,000 K	840/359	–	2,430 lm	2,700 lm	2,970 lm	–	189 lm/W	117°	>80
SLE 17mm 5000lm 830 H ADV8 T	3,000 K	830/359	–	2,300 lm	2,556 lm	2,812 lm	–	179 lm/W	117°	>80
SLE 17mm 5000lm 840 H ADV8 T	4,000 K	840/359	–	2,430 lm	2,700 lm	2,970 lm	–	189 lm/W	117°	>80
SLE 17mm 5000lm – Operating mode NM at 900 mA										
SLE 17mm 5000lm 827 R ADV8	2,700 K	827/359	5,245 lm	4,390 lm	4,878 lm	5,366 lm	173 lm/W	164 lm/W	360°	>80
SLE 17mm 5000lm 830 R ADV8	3,000 K	830/359	5,463 lm	4,573 lm	5,081 lm	5,589 lm	180 lm/W	171 lm/W	360°	>80
SLE 17mm 5000lm 835 R ADV8	3,500 K	835/359	5,471 lm	4,670 lm	5,189 lm	5,708 lm	184 lm/W	175 lm/W	360°	>80
SLE 17mm 5000lm 840 R ADV8	4,000 K	840/359	5,697 lm	4,768 lm	5,298 lm	5,828 lm	188 lm/W	178 lm/W	360°	>80
SLE 17mm 5000lm 827 H ADV8	2,700 K	827/359	4,369 lm	4,390 lm	4,878 lm	5,366 lm	173 lm/W	164 lm/W	117°	>80
SLE 17mm 5000lm 830 H ADV8	3,000 K	830/359	4,551 lm	4,573 lm	5,081 lm	5,589 lm	180 lm/W	171 lm/W	117°	>80
SLE 17mm 5000lm 835 H ADV8	3,500 K	835/359	4,557 lm	4,670 lm	5,189 lm	5,708 lm	184 lm/W	175 lm/W	117°	>80
SLE 17mm 5000lm 840 H ADV8	4,000 K	840/359	4,746 lm	4,768 lm	5,298 lm	5,828 lm	188 lm/W	178 lm/W	117°	>80
SLE 17mm 5000lm 830 H ADV8 T	3,000 K	830/359	4,551 lm	4,573 lm	5,081 lm	5,589 lm	180 lm/W	171 lm/W	117°	>80
SLE 17mm 5000lm 840 H ADV8 T	4,000 K	840/359	4,746 lm	4,768 lm	5,298 lm	5,828 lm	188 lm/W	178 lm/W	117°	>80
SLE 17mm 5000lm – Operating mode HO at 1.200 mA										
SLE 17mm 5000lm 827 R ADV8	2,700 K	827/359	–	5,463 lm	6,070 lm	6,677 lm	–	151 lm/W	360°	>80
SLE 17mm 5000lm 830 R ADV8	3,000 K	830/359	–	5,687 lm	6,318 lm	6,950 lm	–	157 lm/W	360°	>80
SLE 17mm 5000lm 835 R ADV8	3,500 K	835/359	–	5,928 lm	6,586 lm	7,245 lm	–	163 lm/W	360°	>80
SLE 17mm 5000lm 840 R ADV8	4,000 K	840/359	–	6,005 lm	6,672 lm	7,339 lm	–	166 lm/W	360°	>80
SLE 17mm 5000lm 827 H ADV8	2,700 K	827/359	–	5,463 lm	6,070 lm	6,677 lm	–	151 lm/W	117°	>80
SLE 17mm 5000lm 830 H ADV8	3,000 K	830/359	–	5,687 lm	6,318 lm	6,950 lm	–	157 lm/W	117°	>80
SLE 17mm 5000lm 835 H ADV8	3,500 K	835/359	–	5,928 lm	6,586 lm	7,245 lm	–	163 lm/W	117°	>80
SLE 17mm 5000lm 840 H ADV8	4,000 K	840/359	–	6,005 lm	6,672 lm	7,339 lm	–	166 lm/W	117°	>80
SLE 17mm 5000lm 830 H ADV8 T	3,000 K	830/359	–	5,687 lm	6,318 lm	6,950 lm	–	157 lm/W	117°	>80
SLE 17mm 5000lm 840 H ADV8 T	4,000 K	840/359	–	6,005 lm	6,672 lm	7,339 lm	–	166 lm/W	117°	>80

^① HE ... high efficiency, NM ... nominal mode, HO ... high output,

^② The detailed explanation, see data sheet section 1.1,

^③ Tolerance of useful light flux - 0 % / + 15 %, Measurement uncertainty ± 10 %,

^④ Measurement uncertainty ± 10 %, Based on calculation,

Photometric data

Type ^①	Colour temperature	Photometric Code ^②	Useful luminous flux at tp = 25 °C ^③	Luminous flux at tp rated ^④			Efficacy of the module at tp = 25 °C	Expected efficacy of the module at tp rated	Beam characteristic	Colour rendering index CRI
				Min.	Typ.	Max.				
SLE 21mm 6000lm – Operating mode HE at 700 mA										
SLE 21mm 6000lm 827 R ADV8	2,700 K	827/359	–	3,539 lm	3,932 lm	4,325 lm	–	176 lm/W	360°	>80
SLE 21mm 6000lm 830 R ADV8	3,000 K	830/359	–	3,629 lm	4,032 lm	4,435 lm	–	180 lm/W	360°	>80
SLE 21mm 6000lm 835 R ADV8	3,500 K	835/359	–	3,786 lm	4,207 lm	4,628 lm	–	188 lm/W	360°	>80
SLE 21mm 6000lm 840 R ADV8	4,000 K	840/359	–	3,802 lm	4,224 lm	4,647 lm	–	189 lm/W	360°	>80
SLE 21mm 6000lm 827 H ADV8	2,700 K	827/359	–	3,539 lm	3,932 lm	4,325 lm	–	176 lm/W	117°	>80
SLE 21mm 6000lm 830 H ADV8	3,000 K	830/359	–	3,629 lm	4,032 lm	4,435 lm	–	180 lm/W	117°	>80
SLE 21mm 6000lm 840 H ADV8	4,000 K	840/359	–	3,802 lm	4,224 lm	4,647 lm	–	189 lm/W	117°	>80
SLE 21mm 6000lm 830 H ADV8 T	3,000 K	830/359	–	3,629 lm	4,032 lm	4,435 lm	–	180 lm/W	117°	>80
SLE 21mm 6000lm 840 H ADV8 T	4,000 K	840/359	–	3,802 lm	4,224 lm	4,647 lm	–	189 lm/W	117°	>80
SLE 21mm 6000lm – Operating mode NM at 1.200 mA										
SLE 21mm 6000lm 827 R ADV8	2,700 K	827/359	7,112 lm	5,952 lm	6,614 lm	7,275 lm	177 lm/W	168 lm/W	360°	>80
SLE 21mm 6000lm 830 R ADV8	3,000 K	830/359	7,392 lm	6,201 lm	6,890 lm	7,579 lm	184 lm/W	175 lm/W	360°	>80
SLE 21mm 6000lm 835 R ADV8	3,500 K	835/359	7,566 lm	6,333 lm	7,036 lm	7,740 lm	188 lm/W	178 lm/W	360°	>80
SLE 21mm 6000lm 840 R ADV8	4,000 K	840/359	7,725 lm	6,466 lm	7,184 lm	7,902 lm	192 lm/W	182 lm/W	360°	>80
SLE 21mm 6000lm 827 H ADV8	2,700 K	827/359	5,924 lm	5,952 lm	6,614 lm	7,275 lm	177 lm/W	168 lm/W	117°	>80
SLE 21mm 6000lm 830 H ADV8	3,000 K	830/359	6,158 lm	6,201 lm	6,890 lm	7,579 lm	184 lm/W	175 lm/W	117°	>80
SLE 21mm 6000lm 840 H ADV8	4,000 K	840/359	6,435 lm	6,466 lm	7,184 lm	7,902 lm	192 lm/W	182 lm/W	117°	>80
SLE 21mm 6000lm 830 H ADV8 T	3,000 K	830/359	6,158 lm	6,201 lm	6,890 lm	7,579 lm	184 lm/W	175 lm/W	117°	>80
SLE 21mm 6000lm 840 H ADV8 T	4,000 K	840/359	6,435 lm	6,466 lm	7,184 lm	7,902 lm	192 lm/W	182 lm/W	117°	>80
SLE 21mm 6000lm – Operating mode HO at 1.800 mA										
SLE 21mm 6000lm 827 R ADV8	2,700 K	827/359	–	8,413 lm	9,348 lm	10,283 lm	–	153 lm/W	360°	>80
SLE 21mm 6000lm 830 R ADV8	3,000 K	830/359	–	8,698 lm	9,665 lm	10,631 lm	–	159 lm/W	360°	>80
SLE 21mm 6000lm 835 R ADV8	3,500 K	835/359	–	9,057 lm	10,064 lm	11,070 lm	–	165 lm/W	360°	>80
SLE 21mm 6000lm 840 R ADV8	4,000 K	840/359	–	9,143 lm	10,159 lm	11,175 lm	–	167 lm/W	360°	>80
SLE 21mm 6000lm 827 H ADV8	2,700 K	827/359	–	8,413 lm	9,348 lm	10,283 lm	–	153 lm/W	117°	>80
SLE 21mm 6000lm 830 H ADV8	3,000 K	830/359	–	8,698 lm	9,665 lm	10,631 lm	–	159 lm/W	117°	>80
SLE 21mm 6000lm 840 H ADV8	4,000 K	840/359	–	9,143 lm	10,159 lm	11,175 lm	–	167 lm/W	117°	>80
SLE 21mm 6000lm 830 H ADV8 T	3,000 K	830/359	–	8,698 lm	9,665 lm	10,631 lm	–	159 lm/W	117°	>80
SLE 21mm 6000lm 840 H ADV8 T	4,000 K	840/359	–	9,143 lm	10,159 lm	11,175 lm	–	167 lm/W	117°	>80

^① HE ... high efficiency, NM ... nominal mode, HO ... high output.

^② The detailed explanation, see data sheet section 1.1.

^③ Tolerance of useful light flux - 0 % / + 15 %. Measurement uncertainty ± 10 %.

^④ Measurement uncertainty ± 10 %. Based on calculation.

Electrical data

Type ^①	Forward current	Min. forward voltage at tp rated	Typ. forward voltage at tp rated	Max. forward voltage at tp = 25 °C	Power consumption Pon at tp = 25 °C ^②	Energy classification	Energy consumption	Type of light source
SLE 09mm 800lm – Operating mode HE at 250 mA								
SLE 09mm 800lm 830 R ADV8	250 mA	311 V	33.8 V	37.1 V	–	–	–	–
SLE 09mm 800lm 840 R ADV8	250 mA	311 V	33.8 V	37.1 V	–	–	–	–
SLE 09mm 800lm – Operating mode NM at 350 mA								
SLE 09mm 800lm 830 R ADV8	350 mA	32.2 V	35.0 V	38.5 V	12.5 W	D	13 kWh / 1,000 h	non-directional
SLE 09mm 800lm 840 R ADV8	350 mA	32.2 V	35.0 V	38.5 V	12.5 W	C	13 kWh / 1,000 h	non-directional
SLE 09mm 800lm – Operating mode HO at 450 mA								
SLE 09mm 800lm 830 R ADV8	450 mA	33.0 V	35.9 V	39.2 V	–	–	–	–
SLE 09mm 800lm 840 R ADV8	450 mA	33.0 V	35.9 V	39.2 V	–	–	–	–
SLE 09mm 1200lm – Operating mode HE at 250 mA								
SLE 09mm 1200lm 830 R ADV8	250 mA	30.3 V	32.9 V	36.0 V	–	–	–	–
SLE 09mm 1200lm 840 R ADV8	250 mA	30.3 V	32.9 V	36.0 V	–	–	–	–
SLE 09mm 1200lm – Operating mode NM at 350 mA								
SLE 09mm 1200lm 830 R ADV8	350 mA	30.9 V	33.6 V	36.8 V	11.9 W	D	12 kWh / 1,000 h	non-directional
SLE 09mm 1200lm 840 R ADV8	350 mA	30.9 V	33.6 V	36.8 V	11.9 W	C	12 kWh / 1,000 h	non-directional
SLE 09mm 1200lm – Operating mode HO at 500 mA								
SLE 09mm 1200lm 830 R ADV8	500 mA	31.9 V	34.6 V	37.9 V	–	–	–	–
SLE 09mm 1200lm 840 R ADV8	500 mA	31.9 V	34.6 V	37.9 V	–	–	–	–
SLE 13mm 3000lm – Operating mode HE at 350 mA								
SLE 13mm 3000lm 827 R ADV8	350 mA	30.0 V	32.7 V	35.8 V	–	–	–	–
SLE 13mm 3000lm 830 R ADV8	350 mA	30.0 V	32.7 V	35.8 V	–	–	–	–
SLE 13mm 3000lm 835 R ADV8	350 mA	30.0 V	32.7 V	35.8 V	–	–	–	–
SLE 13mm 3000lm 840 R ADV8	350 mA	30.0 V	32.7 V	35.8 V	–	–	–	–
SLE 13mm 3000lm 830 H ADV8	350 mA	30.0 V	32.7 V	35.8 V	–	–	–	–
SLE 13mm 3000lm 840 H ADV8	350 mA	30.0 V	32.7 V	35.8 V	–	–	–	–
SLE 13mm 3000lm – Operating mode NM at 500 mA								
SLE 13mm 3000lm 827 R ADV8	500 mA	30.4 V	33.0 V	36.2 V	16.8 W	D	17 kWh / 1,000 h	non-directional
SLE 13mm 3000lm 830 R ADV8	500 mA	30.4 V	33.0 V	36.2 V	16.8 W	C	17 kWh / 1,000 h	non-directional
SLE 13mm 3000lm 835 R ADV8	500 mA	30.4 V	33.0 V	36.2 V	16.8 W	C	17 kWh / 1,000 h	non-directional
SLE 13mm 3000lm 840 R ADV8	500 mA	30.4 V	33.0 V	36.2 V	16.8 W	C	17 kWh / 1,000 h	non-directional
SLE 13mm 3000lm 830 H ADV8	500 mA	30.4 V	33.0 V	36.2 V	16.8 W	C	17 kWh / 1,000 h	directional
SLE 13mm 3000lm 840 H ADV8	500 mA	30.4 V	33.0 V	36.2 V	16.8 W	C	17 kWh / 1,000 h	directional
SLE 13mm 3000lm – Operating mode HO at 900 mA								
SLE 13mm 3000lm 827 R ADV8	900 mA	32.2 V	35.0 V	38.3 V	–	–	–	–
SLE 13mm 3000lm 830 R ADV8	900 mA	32.2 V	35.0 V	38.3 V	–	–	–	–
SLE 13mm 3000lm 835 R ADV8	900 mA	32.2 V	35.0 V	38.3 V	–	–	–	–
SLE 13mm 3000lm 840 R ADV8	900 mA	32.2 V	35.0 V	38.3 V	–	–	–	–
SLE 13mm 3000lm 830 H ADV8	900 mA	32.2 V	35.0 V	38.3 V	–	–	–	–
SLE 13mm 3000lm 840 H ADV8	900 mA	32.2 V	35.0 V	38.3 V	–	–	–	–

^① HE ... high efficiency, NM ... nominal mode, HO ... high output.

^② Tolerance of power consumption Pon ± 10 %. Measurement uncertainty ± 5 %.

Electrical data

Type ^①	Forward current	Min. forward voltage at tp rated	Typ. forward voltage at tp rated	Max. forward voltage at tp = 25 °C	Power consumption Pon at tp = 25 °C ^②	Energy classification	Energy consumption	Type of light source
SLE 15mm 4000lm – Operating mode HE at 400 mA								
SLE 15mm 4000lm 827 R ADV8	400 mA	29.6 V	32.2 V	35.2 V	–	–	–	–
SLE 15mm 4000lm 830 R ADV8	400 mA	29.6 V	32.2 V	35.2 V	–	–	–	–
SLE 15mm 4000lm 835 R ADV8	400 mA	29.6 V	32.2 V	35.2 V	–	–	–	–
SLE 15mm 4000lm 840 R ADV8	400 mA	29.6 V	32.2 V	35.2 V	–	–	–	–
SLE 15mm 4000lm 830 H ADV8	400 mA	29.6 V	32.2 V	35.2 V	–	–	–	–
SLE 15mm 4000lm 840 H ADV8	400 mA	29.6 V	32.2 V	35.2 V	–	–	–	–
SLE 15mm 4000lm 830 H ADV8 T	400 mA	29.6 V	32.2 V	35.2 V	–	–	–	–
SLE 15mm 4000lm 840 H ADV8 T	400 mA	29.6 V	32.2 V	35.2 V	–	–	–	–
SLE 15mm 4000lm – Operating mode NM at 800 mA								
SLE 15mm 4000lm 827 R ADV8	800 mA	30.8 V	33.4 V	36.6 V	271 W	D	27 kWh / 1,000 h	non-directional
SLE 15mm 4000lm 830 R ADV8	800 mA	30.8 V	33.4 V	36.6 V	271 W	D	27 kWh / 1,000 h	non-directional
SLE 15mm 4000lm 835 R ADV8	800 mA	30.8 V	33.4 V	36.6 V	271 W	C	28 kWh / 1,000 h	non-directional
SLE 15mm 4000lm 840 R ADV8	800 mA	30.8 V	33.4 V	36.6 V	271 W	C	28 kWh / 1,000 h	non-directional
SLE 15mm 4000lm 830 H ADV8	800 mA	30.8 V	33.4 V	36.6 V	271 W	D	27 kWh / 1,000 h	directional
SLE 15mm 4000lm 840 H ADV8	800 mA	30.8 V	33.4 V	36.6 V	271 W	C	28 kWh / 1,000 h	directional
SLE 15mm 4000lm 830 H ADV8 T	800 mA	30.8 V	33.4 V	36.6 V	271 W	D	27 kWh / 1,000 h	directional
SLE 15mm 4000lm 840 H ADV8 T	800 mA	30.8 V	33.4 V	36.6 V	271 W	C	28 kWh / 1,000 h	directional
SLE 15mm 4000lm – Operating mode HO at 1.050 mA								
SLE 15mm 4000lm 827 R ADV8	1,050 mA	31.3 V	34.1 V	37.3 V	–	–	–	–
SLE 15mm 4000lm 830 R ADV8	1,050 mA	31.3 V	34.1 V	37.3 V	–	–	–	–
SLE 15mm 4000lm 835 R ADV8	1,050 mA	31.3 V	34.1 V	37.3 V	–	–	–	–
SLE 15mm 4000lm 840 R ADV8	1,050 mA	31.3 V	34.1 V	37.3 V	–	–	–	–
SLE 15mm 4000lm 830 H ADV8	1,050 mA	31.3 V	34.1 V	37.3 V	–	–	–	–
SLE 15mm 4000lm 840 H ADV8	1,050 mA	31.3 V	34.1 V	37.3 V	–	–	–	–
SLE 15mm 4000lm 830 H ADV8 T	1,050 mA	31.3 V	34.1 V	37.3 V	–	–	–	–
SLE 15mm 4000lm 840 H ADV8 T	1,050 mA	31.3 V	34.1 V	37.3 V	–	–	–	–

^① HE ... high efficiency, NM ... nominal mode, HO ... high output.

^② Tolerance of power consumption Pon ± 10 %. Measurement uncertainty ± 5 %.

Electrical data

Type ^①	Forward current	Min. forward voltage at tp rated	Typ. forward voltage at tp rated	Max. forward voltage at tp = 25 °C	Power consumption Pon at tp = 25 °C ^②	Energy classification	Energy consumption	Type of light source
SLE 17mm 5000lm – Operating mode HE at 450 mA								
SLE 17mm 5000lm 827 R ADV8	450 mA	29.2 V	31.8 V	35.0 V	–	–	–	–
SLE 17mm 5000lm 830 R ADV8	450 mA	29.2 V	31.8 V	35.0 V	–	–	–	–
SLE 17mm 5000lm 835 R ADV8	450 mA	29.2 V	31.8 V	35.0 V	–	–	–	–
SLE 17mm 5000lm 840 R ADV8	450 mA	29.2 V	31.8 V	35.0 V	–	–	–	–
SLE 17mm 5000lm 827 H ADV8	450 mA	29.2 V	31.8 V	35.0 V	–	–	–	–
SLE 17mm 5000lm 830 H ADV8	450 mA	29.2 V	31.8 V	35.0 V	–	–	–	–
SLE 17mm 5000lm 835 H ADV8	450 mA	29.2 V	31.8 V	35.0 V	–	–	–	–
SLE 17mm 5000lm 840 H ADV8	450 mA	29.2 V	31.8 V	35.0 V	–	–	–	–
SLE 17mm 5000lm 830 H ADV8 T	450 mA	29.2 V	31.8 V	35.0 V	–	–	–	–
SLE 17mm 5000lm 840 H ADV8 T	450 mA	29.2 V	31.8 V	35.0 V	–	–	–	–
SLE 17mm 5000lm – Operating mode NM at 900 mA								
SLE 17mm 5000lm 827 R ADV8	900 mA	30.4 V	33.0 V	36.4 V	30.3 W	C	31 kWh / 1,000 h	non-directional
SLE 17mm 5000lm 830 R ADV8	900 mA	30.4 V	33.0 V	36.4 V	30.3 W	C	31 kWh / 1,000 h	non-directional
SLE 17mm 5000lm 835 R ADV8	900 mA	30.4 V	33.0 V	36.4 V	30.3 W	C	31 kWh / 1,000 h	non-directional
SLE 17mm 5000lm 840 R ADV8	900 mA	30.4 V	33.0 V	36.4 V	30.3 W	C	31 kWh / 1,000 h	non-directional
SLE 17mm 5000lm 827 H ADV8	900 mA	30.4 V	33.0 V	36.4 V	30.3 W	D	31 kWh / 1,000 h	directional
SLE 17mm 5000lm 830 H ADV8	900 mA	30.4 V	33.0 V	36.4 V	30.3 W	C	31 kWh / 1,000 h	directional
SLE 17mm 5000lm 835 H ADV8	900 mA	30.4 V	33.0 V	36.4 V	30.3 W	C	31 kWh / 1,000 h	directional
SLE 17mm 5000lm 840 H ADV8	900 mA	30.4 V	33.0 V	36.4 V	30.3 W	C	31 kWh / 1,000 h	directional
SLE 17mm 5000lm 830 H ADV8 T	900 mA	30.4 V	33.0 V	36.4 V	30.3 W	C	31 kWh / 1,000 h	directional
SLE 17mm 5000lm 840 H ADV8 T	900 mA	30.4 V	33.0 V	36.4 V	30.3 W	C	31 kWh / 1,000 h	directional
SLE 17mm 5000lm – Operating mode HO at 1.200 mA								
SLE 17mm 5000lm 827 R ADV8	1,200 mA	30.9 V	33.6 V	37.0 V	–	–	–	–
SLE 17mm 5000lm 830 R ADV8	1,200 mA	30.9 V	33.6 V	37.0 V	–	–	–	–
SLE 17mm 5000lm 835 R ADV8	1,200 mA	30.9 V	33.6 V	37.0 V	–	–	–	–
SLE 17mm 5000lm 840 R ADV8	1,200 mA	30.9 V	33.6 V	37.0 V	–	–	–	–
SLE 17mm 5000lm 827 H ADV8	1,200 mA	30.9 V	33.6 V	37.0 V	–	–	–	–
SLE 17mm 5000lm 830 H ADV8	1,200 mA	30.9 V	33.6 V	37.0 V	–	–	–	–
SLE 17mm 5000lm 835 H ADV8	1,200 mA	30.9 V	33.6 V	37.0 V	–	–	–	–
SLE 17mm 5000lm 840 H ADV8	1,200 mA	30.9 V	33.6 V	37.0 V	–	–	–	–
SLE 17mm 5000lm 830 H ADV8 T	1,200 mA	30.9 V	33.6 V	37.0 V	–	–	–	–
SLE 17mm 5000lm 840 H ADV8 T	1,200 mA	30.9 V	33.6 V	37.0 V	–	–	–	–

^① HE ... high efficiency, NM ... nominal mode, HO ... high output.

^② Tolerance of power consumption Pon ± 10 %. Measurement uncertainty ± 5 %.

Electrical data

Type ^①	Forward current	Min. forward voltage at tp rated	Typ. forward voltage at tp rated	Max. forward voltage at tp = 25 °C	Power consumption Pon at tp = 25 °C ^②	Energy classification	Energy consumption	Type of light source
SLE 21mm 6000lm – Operating mode HE at 700 mA								
SLE 21mm 6000lm 827 R ADV8	700 mA	29.4 V	32.0 V	35.3 V	–	–	–	–
SLE 21mm 6000lm 830 R ADV8	700 mA	29.4 V	32.0 V	35.3 V	–	–	–	–
SLE 21mm 6000lm 835 R ADV8	700 mA	29.4 V	32.0 V	35.3 V	–	–	–	–
SLE 21mm 6000lm 840 R ADV8	700 mA	29.4 V	32.0 V	35.3 V	–	–	–	–
SLE 21mm 6000lm 827 H ADV8	700 mA	29.4 V	32.0 V	35.3 V	–	–	–	–
SLE 21mm 6000lm 830 H ADV8	700 mA	29.4 V	32.0 V	35.3 V	–	–	–	–
SLE 21mm 6000lm 840 H ADV8	700 mA	29.4 V	32.0 V	35.3 V	–	–	–	–
SLE 21mm 6000lm 830 H ADV8 T	700 mA	29.4 V	32.0 V	35.3 V	–	–	–	–
SLE 21mm 6000lm 840 H ADV8 T	700 mA	29.4 V	32.0 V	35.3 V	–	–	–	–
SLE 21mm 6000lm – Operating mode NM at 1.200 mA								
SLE 21mm 6000lm 827 R ADV8	1,200 mA	30.3 V	32.9 V	36.2 V	40.3 W	C	41 kWh / 1,000 h	non-directional
SLE 21mm 6000lm 830 R ADV8	1,200 mA	30.3 V	32.9 V	36.2 V	40.3 W	C	41 kWh / 1,000 h	non-directional
SLE 21mm 6000lm 835 R ADV8	1,200 mA	30.3 V	32.9 V	36.2 V	40.3 W	C	41 kWh / 1,000 h	non-directional
SLE 21mm 6000lm 840 R ADV8	1,200 mA	30.3 V	32.9 V	36.2 V	40.3 W	C	41 kWh / 1,000 h	non-directional
SLE 21mm 6000lm 827 H ADV8	1,200 mA	30.3 V	32.9 V	36.2 V	40.3 W	C	41 kWh / 1,000 h	directional
SLE 21mm 6000lm 830 H ADV8	1,200 mA	30.3 V	32.9 V	36.2 V	40.3 W	C	41 kWh / 1,000 h	directional
SLE 21mm 6000lm 840 H ADV8	1,200 mA	30.3 V	32.9 V	36.2 V	40.3 W	C	41 kWh / 1,000 h	directional
SLE 21mm 6000lm 830 H ADV8 T	1,200 mA	30.3 V	32.9 V	36.2 V	40.3 W	C	41 kWh / 1,000 h	directional
SLE 21mm 6000lm 840 H ADV8 T	1,200 mA	30.3 V	32.9 V	36.2 V	40.3 W	C	41 kWh / 1,000 h	directional
SLE 21mm 6000lm – Operating mode HO at 1.800 mA								
SLE 21mm 6000lm 827 R ADV8	1,800 mA	31.1 V	33.8 V	37.3 V	–	–	–	–
SLE 21mm 6000lm 830 R ADV8	1,800 mA	31.1 V	33.8 V	37.3 V	–	–	–	–
SLE 21mm 6000lm 835 R ADV8	1,800 mA	31.1 V	33.8 V	37.3 V	–	–	–	–
SLE 21mm 6000lm 840 R ADV8	1,800 mA	31.1 V	33.8 V	37.3 V	–	–	–	–
SLE 21mm 6000lm 827 H ADV8	1,800 mA	31.1 V	33.8 V	37.3 V	–	–	–	–
SLE 21mm 6000lm 830 H ADV8	1,800 mA	31.1 V	33.8 V	37.3 V	–	–	–	–
SLE 21mm 6000lm 840 H ADV8	1,800 mA	31.1 V	33.8 V	37.3 V	–	–	–	–
SLE 21mm 6000lm 830 H ADV8 T	1,800 mA	31.1 V	33.8 V	37.3 V	–	–	–	–
SLE 21mm 6000lm 840 H ADV8 T	1,800 mA	31.1 V	33.8 V	37.3 V	–	–	–	–

^① HE ... high efficiency, NM ... nominal mode, HO ... high output.

^② Tolerance of power consumption Pon ± 10 %. Measurement uncertainty ± 5 %.

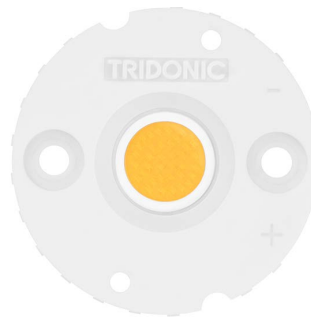
Specific technical data

Type	I _{rated}	I _{max}	Max. permissible LF current ripple	Max. permissible peak current / max. pulse width	Max. working voltage for insulation SELV [®]	Electrical strength	t _a	t _p rated	t _c
SLE 09mm 800lm 830 R ADV8	350 mA	500 mA	550 mA	600 mA / 8ms	60 V	0.5 kV	-30 ... +80 °C	65 °C	105 °C
SLE 09mm 800lm 840 R ADV8	350 mA	500 mA	550 mA	600 mA / 8ms	60 V	0.5 kV	-30 ... +80 °C	65 °C	105 °C
SLE 09mm 1200lm 830 R ADV8	350 mA	540 mA	594 mA	640 mA / 8ms	60 V	0.5 kV	-30 ... +80 °C	65 °C	105 °C
SLE 09mm 1200lm 840 R ADV8	350 mA	540 mA	594 mA	640 mA / 8ms	60 V	0.5 kV	-30 ... +80 °C	65 °C	105 °C
SLE 13mm 3000lm 827 R ADV8	500 mA	1,000 mA	1,100 mA	1,200 mA / 8ms	60 V	0.5 kV	-30 ... +80 °C	65 °C	105 °C
SLE 13mm 3000lm 830 R ADV8	500 mA	1,000 mA	1,100 mA	1,200 mA / 8ms	60 V	0.5 kV	-30 ... +80 °C	65 °C	105 °C
SLE 13mm 3000lm 835 R ADV8	500 mA	1,000 mA	1,100 mA	1,200 mA / 8ms	60 V	0.5 kV	-30 ... +80 °C	65 °C	105 °C
SLE 13mm 3000lm 840 R ADV8	500 mA	1,000 mA	1,100 mA	1,200 mA / 8ms	60 V	0.5 kV	-30 ... +80 °C	65 °C	105 °C
SLE 13mm 3000lm 830 H ADV8	500 mA	1,000 mA	1,100 mA	1,200 mA / 8ms	60 V	0.5 kV	-30 ... +80 °C	65 °C	105 °C
SLE 15mm 4000lm 827 R ADV8	800 mA	1,120 mA	1,232 mA	1,340 mA / 8ms	60 V	0.5 kV	-30 ... +80 °C	65 °C	105 °C
SLE 15mm 4000lm 830 R ADV8	800 mA	1,120 mA	1,232 mA	1,340 mA / 8ms	60 V	0.5 kV	-30 ... +80 °C	65 °C	105 °C
SLE 15mm 4000lm 835 R ADV8	800 mA	1,120 mA	1,232 mA	1,340 mA / 8ms	60 V	0.5 kV	-30 ... +80 °C	65 °C	105 °C
SLE 15mm 4000lm 840 R ADV8	800 mA	1,120 mA	1,232 mA	1,340 mA / 8ms	60 V	0.5 kV	-30 ... +80 °C	65 °C	105 °C
SLE 15mm 4000lm 830 H ADV8	800 mA	1,120 mA	1,232 mA	1,340 mA / 8ms	60 V	0.5 kV	-30 ... +80 °C	65 °C	105 °C
SLE 15mm 4000lm 840 H ADV8	800 mA	1,120 mA	1,232 mA	1,340 mA / 8ms	60 V	0.5 kV	-30 ... +80 °C	65 °C	105 °C
SLE 15mm 4000lm 830 H ADV8 T	800 mA	1,120 mA	1,232 mA	1,340 mA / 8ms	60 V	0.5 kV	-30 ... +80 °C	65 °C	105 °C
SLE 15mm 4000lm 840 H ADV8 T	800 mA	1,120 mA	1,232 mA	1,340 mA / 8ms	60 V	0.5 kV	-30 ... +80 °C	65 °C	105 °C
SLE 17mm 5000lm 827 R ADV8	900 mA	1,300 mA	1,430 mA	1,560 mA / 8ms	60 V	0.5 kV	-30 ... +80 °C	65 °C	105 °C
SLE 17mm 5000lm 830 R ADV8	900 mA	1,300 mA	1,430 mA	1,560 mA / 8ms	60 V	0.5 kV	-30 ... +80 °C	65 °C	105 °C
SLE 17mm 5000lm 835 R ADV8	900 mA	1,300 mA	1,430 mA	1,560 mA / 8ms	60 V	0.5 kV	-30 ... +80 °C	65 °C	105 °C
SLE 17mm 5000lm 840 R ADV8	900 mA	1,300 mA	1,430 mA	1,560 mA / 8ms	60 V	0.5 kV	-30 ... +80 °C	65 °C	105 °C
SLE 17mm 5000lm 827 H ADV8	900 mA	1,300 mA	1,430 mA	1,560 mA / 8ms	60 V	0.5 kV	-30 ... +80 °C	65 °C	105 °C
SLE 17mm 5000lm 830 H ADV8	900 mA	1,300 mA	1,430 mA	1,560 mA / 8ms	60 V	0.5 kV	-30 ... +80 °C	65 °C	105 °C
SLE 17mm 5000lm 835 H ADV8	900 mA	1,300 mA	1,430 mA	1,560 mA / 8ms	60 V	0.5 kV	-30 ... +80 °C	65 °C	105 °C
SLE 17mm 5000lm 840 H ADV8	900 mA	1,300 mA	1,430 mA	1,560 mA / 8ms	60 V	0.5 kV	-30 ... +80 °C	65 °C	105 °C
SLE 17mm 5000lm 830 H ADV8 T	900 mA	1,300 mA	1,430 mA	1,560 mA / 8ms	60 V	0.5 kV	-30 ... +80 °C	65 °C	105 °C
SLE 17mm 5000lm 840 H ADV8 T	900 mA	1,300 mA	1,430 mA	1,560 mA / 8ms	60 V	0.5 kV	-30 ... +80 °C	65 °C	105 °C
SLE 21mm 6000lm 827 R ADV8	1,200 mA	1,960 mA	2,156 mA	2,350 mA / 8ms	60 V	0.5 kV	-30 ... +80 °C	65 °C	105 °C
SLE 21mm 6000lm 830 R ADV8	1,200 mA	1,960 mA	2,156 mA	2,350 mA / 8ms	60 V	0.5 kV	-30 ... +80 °C	65 °C	105 °C
SLE 21mm 6000lm 835 R ADV8	1,200 mA	1,960 mA	2,156 mA	2,350 mA / 8ms	60 V	0.5 kV	-30 ... +80 °C	65 °C	105 °C
SLE 21mm 6000lm 840 R ADV8	1,200 mA	1,960 mA	2,156 mA	2,350 mA / 8ms	60 V	0.5 kV	-30 ... +80 °C	65 °C	105 °C
SLE 21mm 6000lm 827 H ADV8	1,200 mA	1,960 mA	2,156 mA	2,350 mA / 8ms	60 V	0.5 kV	-30 ... +80 °C	65 °C	105 °C
SLE 21mm 6000lm 830 H ADV8	1,200 mA	1,960 mA	2,156 mA	2,350 mA / 8ms	60 V	0.5 kV	-30 ... +80 °C	65 °C	105 °C
SLE 21mm 6000lm 840 H ADV8	1,200 mA	1,960 mA	2,156 mA	2,350 mA / 8ms	60 V	0.5 kV	-30 ... +80 °C	65 °C	105 °C
SLE 21mm 6000lm 830 H ADV8 T	1,200 mA	1,960 mA	2,156 mA	2,350 mA / 8ms	60 V	0.5 kV	-30 ... +80 °C	65 °C	105 °C
SLE 21mm 6000lm 840 H ADV8 T	1,200 mA	1,960 mA	2,156 mA	2,350 mA / 8ms	60 V	0.5 kV	-30 ... +80 °C	65 °C	105 °C

[®] If mounted with M4 screws with 7 mm head diameter.

Product description

- Housing for SLE
- Diameter: 35 mm
- Material: Lexan Resin 943
- M3 screws with flat head, max. head diameter of 6 mm and max. torque for fixing is 0.5 Nm



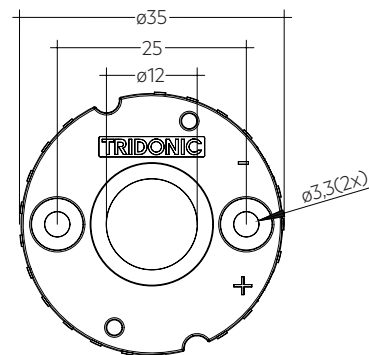
LES9



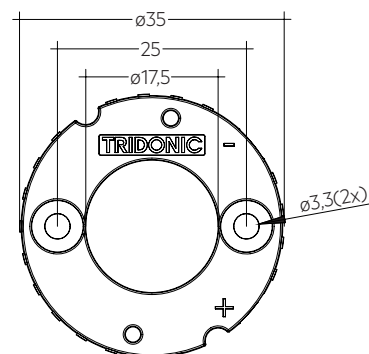
LES13



LES15



SLE G7 HOUSING LES09



SLE G7 HOUSING LES13/15

Ordering data

Type	Article number	Packaging bag	Weight per pc.
SLE G7 HOUSING LES 09	28003024	500 pc(s).	0.002 kg
SLE G7 HOUSING LES 13/15	28003026	500 pc(s).	0.002 kg

1. Standards

EN 62031
EN 62471
IEC 62717
IEC 61000-4-2
UL 8750 (for CLASS2 circuits and dry locations)

1.1 Glow wire test for housing variants

according to IEC 60695-2-11 with increased temperature of 850 °C passed.

1.2 Photometric code

Key for photometric code, e. g. 830 / 359

1 st digit	2 nd + 3 rd digit	4 th digit	5 th digit	6 th digit
Code CRI	Colour temperature in Kelvin x 100	MacAdam initial	MacAdam after 25% of the lifetime (max.6000h)	Luminous flux after 25% of the lifetime (max.6000h)
7 70 – 79				Code Luminous flux
8 80 – 89				7 ≥ 70 %
9 ≥90				8 ≥ 80 % 9 ≥ 90 %

1.3 Risk group

Type	Risk group (IEC 62471)
LES09 800lm 3000K	RG1
LES09 800lm 4000K (at I _{max})	RG2 (E _{thr} = 1,808 lx, RG1 at d ≥ 730 mm)
LES09 800lm 4000K (at I ≤ 350 mA)	RG2 (E _{thr} = 1,808 lx, RG1 at d ≥ 620 mm)
LES09 1200lm 3000K	RG1
LES09 1200lm 4000K (at I _{max})	RG2 (E _{thr} = 1,808 lx, RG1 at d ≥ 770 mm)
LES09 1200lm 4000K (at I ≤ 350 mA)	RG2 (E _{thr} = 1,808 lx, RG1 at d ≥ 620 mm)
LES13	RG1
LES15	RG1
LES17	RG1
LES21	RG1

1.4 Energy classification

Type	Colour temperature	Forward current	Energy classification	Energy consumption
SLE 09mm – Without housing				
SLE 09mm 800lm 830 R ADV8	3,000 K	350 mA	D	13 kWh / 1,000 h
SLE 09mm 800lm 840 R ADV8	4,000 K	350 mA	C	13 kWh / 1,000 h
SLE 09mm 1200lm 830 R ADV8	3,000 K	350 mA	D	12 kWh / 1,000 h
SLE 09mm 1200lm 840 R ADV8	4,000 K	350 mA	C	12 kWh / 1,000 h
SLE 13mm – Without housing				
SLE 13mm 3000lm 827 R ADV8	2,700 K	500 mA	D	17 kWh / 1,000 h
SLE 13mm 3000lm 830 R ADV8	3,000 K	500 mA	C	17 kWh / 1,000 h
SLE 13mm 3000lm 835 R ADV8	3,500 K	500 mA	C	17 kWh / 1,000 h
SLE 13mm 3000lm 840 R ADV8	4,000 K	500 mA	C	17 kWh / 1,000 h

Type	Colour temperature	Forward current	Energy classification	Energy consumption
SLE 15mm – Without housing				
SLE 15mm 4000lm 827 R ADV8	2,700 K	800 mA	D	27 kWh / 1,000 h
SLE 15mm 4000lm 830 R ADV8	3,000 K	800 mA	D	27 kWh / 1,000 h
SLE 15mm 4000lm 835 R ADV8	3,500 K	800 mA	C	28 kWh / 1,000 h
SLE 15mm 4000lm 840 R ADV8	4,000 K	800 mA	C	28 kWh / 1,000 h
SLE 17mm – Without housing				
SLE 17mm 5000lm 827 R ADV8	2,700 K	900 mA	C	31 kWh / 1,000 h
SLE 17mm 5000lm 830 R ADV8	3,000 K	900 mA	C	31 kWh / 1,000 h
SLE 17mm 5000lm 835 R ADV8	3,500 K	900 mA	C	31 kWh / 1,000 h
SLE 17mm 5000lm 840 R ADV8	4,000 K	900 mA	C	31 kWh / 1,000 h
SLE 21mm – Without housing				
SLE 21mm 6000lm 827 R ADV8	2,700 K	1,200 mA	C	41 kWh / 1,000 h
SLE 21mm 6000lm 830 R ADV8	3,000 K	1,200 mA	C	41 kWh / 1,000 h
SLE 21mm 6000lm 835 R ADV8	3,500 K	1,200 mA	C	41 kWh / 1,000 h
SLE 21mm 6000lm 840 R ADV8	4,000 K	1,200 mA	C	41 kWh / 1,000 h
SLE 13mm – With housing				
SLE 13mm 3000lm 830 H ADV8	3,000 K	500 mA	C	17 kWh / 1,000 h
SLE 13mm 3000lm 840 H ADV8	4,000 K	500 mA	C	17 kWh / 1,000 h
SLE 15mm – With housing				
SLE 15mm 4000lm 830 H ADV8	3,000 K	800 mA	D	27 kWh / 1,000 h
SLE 15mm 4000lm 840 H ADV8	4,000 K	800 mA	C	28 kWh / 1,000 h
SLE 15mm 4000lm 830 H ADV8 T	3,000 K	800 mA	D	27 kWh / 1,000 h
SLE 15mm 4000lm 840 H ADV8 T	4,000 K	800 mA	C	28 kWh / 1,000 h
SLE 17mm – With housing				
SLE 17mm 5000lm 827 H ADV8	2,700 K	900 mA	D	31 kWh / 1,000 h
SLE 17mm 5000lm 830 H ADV8	3,000 K	900 mA	C	31 kWh / 1,000 h
SLE 17mm 5000lm 835 H ADV8	3,500 K	900 mA	C	31 kWh / 1,000 h
SLE 17mm 5000lm 840 H ADV8	4,000 K	900 mA	C	31 kWh / 1,000 h
SLE 17mm 5000lm 830 H ADV8 T	3,000 K	900 mA	C	31 kWh / 1,000 h
SLE 17mm 5000lm 840 H ADV8 T	4,000 K	900 mA	C	31 kWh / 1,000 h
SLE 21mm – With housing				
SLE 21mm 6000lm 827 H ADV8	2,700 K	1,200 mA	C	41 kWh / 1,000 h
SLE 21mm 6000lm 830 H ADV8	3,000 K	1,200 mA	C	41 kWh / 1,000 h
SLE 21mm 6000lm 840 H ADV8	4,000 K	1,200 mA	C	41 kWh / 1,000 h
SLE 21mm 6000lm 830 H ADV8 T	3,000 K	1,200 mA	C	41 kWh / 1,000 h
SLE 21mm 6000lm 840 H ADV8 T	4,000 K	1,200 mA	C	41 kWh / 1,000 h

2. Thermal details

2.1 tp point, ambient temperature and lifetime

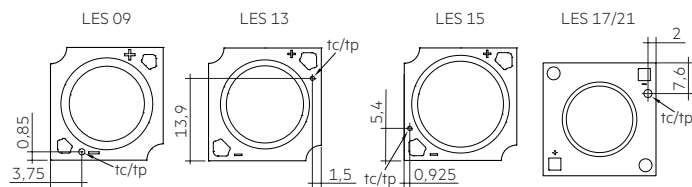
The temperature at tp reference point is crucial for the light output and lifetime of a LED product.

For SLE a tp temperature of 65 °C has to be complied in order to achieve an optimum between heat sink requirements, light output and lifetime.

Compliance with the maximum permissible reference temperature at the tp point must be checked under operating conditions in a thermally stable state. The maximum value must be determined under worst-case conditions for the relevant application.

The tc and tp temperature of LED modules from Tridonic are measured at the same reference point.

To check the tc / tp temperature, the temperature sensor has to be mounted on the PCB at the marked position as stated in the drawing.



2.2 Storage and humidity

storage temperature	-30 ... +80 °C
---------------------	----------------

Operation only in non condensing environment.

Humidity during processing of the module should be between 0 to 85 %.

2.3 Thermal design and heat sink

The rated life of LED products depends to a large extent on the temperature. If the permissible temperature limits are exceeded, the life of the SLE will be greatly reduced or the SLE may be destroyed.

2.4 Heat sink values

SLE 09mm 800lm xxx ADV8

ta	tp	Operating current	R _{th, hs-a}
25 °C	65 °C	250 mA	4.8 K/W
35 °C	65 °C	250 mA	3.6 K/W
45 °C	65 °C	250 mA	2.4 K/W
25 °C	65 °C	350 mA	3.1 K/W
35 °C	65 °C	350 mA	2.3 K/W
45 °C	65 °C	350 mA	1.5 K/W
25 °C	65 °C	450 mA	2.3 K/W
35 °C	65 °C	450 mA	1.7 K/W
45 °C	65 °C	450 mA	1.1 K/W

SLE 09mm 1200lm xxx ADV8

ta	tp	Operating current	R _{th, hs-a}
25 °C	65 °C	250 mA	4.6 K/W
35 °C	65 °C	250 mA	3.4 K/W
45 °C	65 °C	250 mA	2.2 K/W
25 °C	65 °C	350 mA	3.1 K/W
35 °C	65 °C	350 mA	2.3 K/W
45 °C	65 °C	350 mA	1.5 K/W
25 °C	65 °C	500 mA	2.1 K/W
35 °C	65 °C	500 mA	1.6 K/W
45 °C	65 °C	500 mA	1.0 K/W

SLE 13mm 3000lm xxx ADV8

ta	tp	Operating current	R _{th, hs-a}
25 °C	65 °C	350 mA	3.4 K/W
35 °C	65 °C	350 mA	2.6 K/W
45 °C	65 °C	350 mA	1.7 K/W
25 °C	65 °C	500 mA	2.3 K/W
35 °C	65 °C	500 mA	1.7 K/W
45 °C	65 °C	500 mA	1.2 K/W
25 °C	65 °C	900 mA	1.2 K/W
35 °C	65 °C	900 mA	0.9 K/W
45 °C	65 °C	900 mA	0.6 K/W

SLE 15mm 4000lm xxx ADV8

ta	tp	Operating current	R _{th, hs-a}
25 °C	65 °C	400 mA	2.4 K/W
35 °C	65 °C	400 mA	1.8 K/W
45 °C	65 °C	400 mA	1.2 K/W
25 °C	65 °C	800 mA	1.3 K/W
35 °C	65 °C	800 mA	1.0 K/W
45 °C	65 °C	800 mA	0.6 K/W
25 °C	65 °C	1,050 mA	0.9 K/W
35 °C	65 °C	1,050 mA	0.7 K/W
45 °C	65 °C	1,050 mA	0.5 K/W

SLE 17mm 5000lm xxx ADV8

ta	tp	Operating current	R _{th, hs-a}
25 °C	65 °C	450 mA	2.3 K/W
35 °C	65 °C	450 mA	1.7 K/W
45 °C	65 °C	450 mA	1.1 K/W
25 °C	65 °C	900 mA	1.0 K/W
35 °C	65 °C	900 mA	0.7 K/W
45 °C	65 °C	900 mA	0.4 K/W
25 °C	65 °C	1,200 mA	0.7 K/W
35 °C	65 °C	1,200 mA	0.5 K/W
45 °C	65 °C	1,200 mA	0.3 K/W

SLE 21mm 6000lm xxx ADV8

ta	tp	Operating current	R _{th, hs-a}
25 °C	65 °C	700 mA	1.6 K/W
35 °C	65 °C	700 mA	1.2 K/W
45 °C	65 °C	700 mA	0.8 K/W
25 °C	65 °C	1,200 mA	0.7 K/W
35 °C	65 °C	1,200 mA	0.5 K/W
45 °C	65 °C	1,200 mA	0.3 K/W
25 °C	65 °C	1,800 mA	0.5 K/W
35 °C	65 °C	1,800 mA	0.3 K/W
45 °C	65 °C	1,800 mA	0.2 K/W

Notes

The actual cooling can differ because of the material, the structural shape, outside influences and the installation situation. A thermal connection between SLE and heat sink with heat-conducting paste or heat conducting adhesive film is absolutely necessary.

Additionally the SLE has to be fixed on the heat sink with M3 screws to optimise the thermal connection.

Use of thermal interface material with thermal conductivity of $\lambda > 1 \text{ W/mK}$ and layer thickness of interface material with max. 50 μm or a similar interface material where the quotient of layer thickness and thermal conductivity $b < 50 \mu\text{mmK/W}$.

The SLE H ADV8 T modules will be delivered with thermal interface foil of type GRAFTECH HT-1205A.

The bottom side of the thermal pad is glued to the module, the upper side is not adhesive. This makes it easier to position the module when it is connected to the heat sink.



The thermal pad is an integral part of the LED module and must not be confused with a protective foil. The thermal pad must not be pulled off!

For further information about the thermal interface foil please refer to the data sheet of the product GRAFTECH HT-1205A.

3. Installation / wiring

3.1 Electrical supply/choice of LED driver

SLE from Tridonic are not protected against overvoltages, overcurrents, overloads or short-circuit currents. Safe and reliable operation can only be guaranteed in conjunction with a LED driver which complies with the relevant standards. The use of LED drivers from Tridonic in combination with SLE guarantees the necessary protection for safe and reliable operation.

If a LED driver other than Tridonic is used, it must provide the following protection:

- Short-circuit protection
- Overload protection
- Overtemperature protection



SLE must be supplied by a constant current LED driver. Operation with a constant voltage LED driver will lead to an irreversible damage of the module. Wrong polarity can damage the SLE.



SLE must not be operated with nonSELV LED driver.



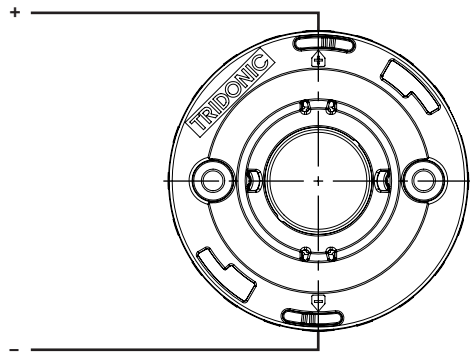
SLE are basic insulated up to 60 V SELV against ground and can be mounted directly on earthed metal parts of the luminaire. If the max. output voltage of the LED driver (also against earth) is above 60 V SELV, an additional insulation between LED module and heat sink is required (for example by insulated thermal pads) or by a suitable luminaire construction.

At voltages > 60 V an additional protection against direct touch (test finger) to the light emitting side of the module has to be guaranteed.

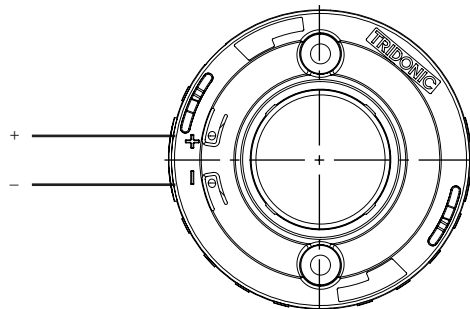
This is typically achieved by means of a non removable light distributor over the module.

3.2 Wiring

Wiring with housing (LES13 and LES15)

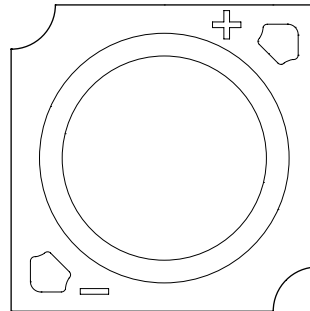


Wiring with housing (LES17 and LES21)

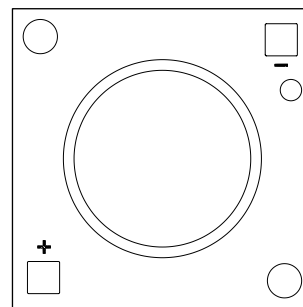


Wiring without housing

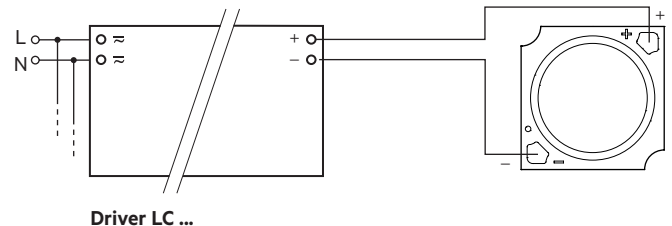
LES09 + LES13 + LES15



LES17 + LES21



Wiring example



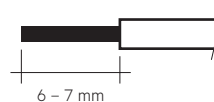
3.3 Wiring type and cross section for housing variants

For wiring use solid wire from 0.5 to 0.75 mm² or stranded wire with soldered ends of 0.5 mm².

For the push-wire connection you have to strip the insulation (6 – 7 mm).

Loosen wire through twisting and pulling.

wire preparation:



3.4 Mounting instruction



SLE from Tridonic which have to be installed on a heat sink have to be connected with heat-conducting paste or heat conducting adhesive film and fixed with M3 screws.

The fixing/cooling surface must be cleaned by removing all dirt, dust and grease before installing the LED modules.

None of the components of the SLE (substrate, LED, electronic components etc.) may be exposed to tensile or compressive stresses.



Max. torque for fixing: 0.3 Nm (LES9, LES13, LES15)
0.5 Nm (LES17, LES21)

The LED modules are mounted with 2 screws per module. In order not to damage the modules only rounded head screws and an additional plastic flat washer (notice working temperature) or rounded head screw with collar (ISO 7380-2) with head diameter ≤ 6.9 mm must be used for LED modules without housing (for LES13, LES15).

Chemical substance may harm the LED module. Chemical reactions could lead to colour shift, reduced luminous flux or a total failure of the module caused by corrosion of electrical connections.



Materials which are used in LED applications (e.g. sealings, adhesives) must not produce dissolver gas. They must not be condensation curing based, acetate curing based or contain sulfur, chlorine or phthalate.

Avoid corrosive atmosphere during usage and storage.

3.5 EOS/ESD safety guidelines



The device / module contains components that are sensitive to electrostatic discharge and may only be installed in the factory and on site if appropriate EOS/ESD protection measures have been taken. No special measures need be taken for devices/modules with enclosed casings (contact with the pc board not possible), just normal installation practice.

For further information for EOS/ESD safety guidelines and the ESD classification please refer to the brochure entitled <http://www.tridonic.com/esd-protection>.

4. Lifetime

4.1 Lifetime, lumen maintenance and failure rate

The light output of an LED module decreases over the lifetime, this is characterized with the L value. L70 means that the LED module will give 70 % of its initial luminous flux. This value is always related to the number of operation hours and therefore defines the lifetime of an LED module.

As the L value is a statistical value and the lumen maintenance may vary over the delivered LED modules. The B value defines the amount of modules which are below the specific L value, e.g. L70B10 means 10 % of the LED modules are below 70 % of the initial luminous flux, respectively 90 % will be above 70 % of the initial value.

In addition the percentage of failed modules (fatal failure) is characterized by the C value.

The F value is the combination of the B and C value. That means for F degradation and complete failures are considered, e.g. L70F10 means 10 % of the LED modules may fail or be below 70 % of the initial luminous flux.

4.2 Lumen maintenance

Lifetime declarations are informative and represent no warranty claim. Preliminary calculated lifetime data until LM80 test reports are available

SLE 09mm 800lm ADV8

Operating current	tp temperature	L90 / F10	L90 / F50	L80 / F10	L80 / F50	L70 / F10	L70 / F50
250 mA	65 °C	57k h	>60k h	>60k h	>60k h	>60k h	>60k h
	85 °C	57k h	>60k h	>60k h	>60k h	>60k h	>60k h
	105 °C	9k h	14k h	20k h	31k h	20k h	33k h
350 mA	65 °C	>60k h	>60k h	>60k h	>60k h	>60k h	>60k h
	85 °C	36k h	>38k h	>60k h	>60k h	>60k h	>60k h
450 mA	65 °C	>60k h	>60k h	>60k h	>60k h	>60k h	>60k h
	85 °C	36k h	38k h	>60k h	>60k h	>60k h	>60k h

SLE 09mm 1200lm ADV8

Operating current	tp temperature	L90 / F10	L90 / F50	L80 / F10	L80 / F50	L70 / F10	L70 / F50
250 mA	65 °C	>60k h	>60k h	>60k h	>60k h	>60k h	>60k h
	85 °C	57k h	>60k h	>60k h	>60k h	>60k h	>60k h
	105 °C	18k h	22k h	10k h	51k h	>60k h	>60k h
350 mA	65 °C	>60k h	>60k h	>60k h	>60k h	>60k h	>60k h
	85 °C	57k h	>60k h	>60k h	>60k h	>60k h	>60k h
	105 °C	18k h	>22k h	41k h	51k h	>60k h	>60k h
500 mA	65 °C	57k h	>60k h	>60k h	>60k h	>60k h	>60k h
	85 °C	57k h	>60k h	>60k h	>60k h	>60k h	>60k h
	105 °C	9k h	14k h	20k h	31k h	33k h	50k h

SLE 13mm 3000lm ADV8

Operating current	tp temperature	L90 / F10	L90 / F50	L80 / F10	L80 / F50	L70 / F10	L70 / F50
350 mA	65 °C	>60k h	>60k h	>60k h	>60k h	>60k h	>60k h
	85 °C	57k h	>60k h	>60k h	>60k h	>60k h	>60k h
	105 °C	18k h	22k h	41k h	51k h	>60k h	>60k h
500 mA	65 °C	>60k h	>60k h	>60k h	>60k h	>60k h	>60k h
	85 °C	57k h	>60k h	>60k h	>60k h	>60k h	>60k h
	105 °C	18k h	22k h	41k h	51k h	33k h	50k h
900 mA	65 °C	>60k h	>60k h	>60k h	>60k h	>60k h	>60k h
	85 °C	36k h	38k h	>60k h	>60k h	>60k h	>60k h

SLE 15mm 4000lm ADV8

Operating current	tp temperature	L90 / F10	L90 / F50	L80 / F10	L80 / F50	L70 / F10	L70 / F50
400 mA	65 °C	>60k h	>60k h	>60k h	>60k h	>60k h	>60k h
	85 °C	57k h	>60k h	>60k h	>60k h	>60k h	>60k h
	105 °C	18k h	22k h	41k h	51k h	>60 kh	>60k h
800 mA	65 °C	>60k h	>60k h	>60k h	>60k h	>60k h	>60k h
	85 °C	57k h	>60k h	>60k h	>60k h	>60k h	>60k h
	105 °C	18k h	22k h	41k h	51k h	>60 kh	50k h
1,050 mA	65 °C	57k h	>60k h	>60k h	>60k h	>60k h	>60k h
	85 °C	57k h	>60k h	>60k h	>60k h	>60k h	>60k h
	105 °C	9k h	14k h	20k h	31k h	33k h	50k h

SLE 17mm 5000lm ADV8

Operating current	tp temperature	L90 / F10	L90 / F50	L80 / F10	L80 / F50	L70 / F10	L70 / F50
450 mA	65 °C	>60k h	>60k h	>60k h	>60k h	>60k h	>60k h
	85 °C	57k h	>60k h	>60k h	>60k h	>60k h	>60k h
	105 °C	18k h	22k h	41k h	51k h	>60k h	>60k h
900 mA	65 °C	>60k h	>60k h	>60k h	>60k h	>60k h	>60k h
	85 °C	57k h	>60k h	>60k h	>60k h	>60k h	>60k h
	105 °C	18k h	22k h	41k h	51k h	>60k h	50k h
1,200 mA	65 °C	57k h	>60k h	>60k h	>60k h	>60k h	>60k h
	85 °C	57k h	>60k h	>60k h	>60k h	>60k h	>60k h
	105 °C	9k h	14k h	20k h	31k h	33k h	50k h

SLE 21mm 6000lm ADV8

Operating current	tp temperature	L90 / F10	L90 / F50	L80 / F10	L80 / F50	L70 / F10	L70 / F50
450 mA	65 °C	>60k h	>60k h	>60k h	>60k h	>60k h	>60k h
	85 °C	57k h	>60k h	>60k h	>60k h	>60k h	>60k h
	105 °C	18k h	22k h	41k h	51k h	>60k h	>60k h
900 mA	65 °C	>60k h	>60k h	>60k h	>60k h	>60k h	>60k h
	85 °C	57k h	>60k h	>60k h	>60k h	>60k h	>60k h
	105 °C	18k h	22k h	41k h	51k h	>60k h	50k h
1,200 mA	65 °C	57k h	>60k h	>60k h	>60k h	>60k h	>60k h
	85 °C	57k h	>60k h	>60k h	>60k h	>60k h	>60k h
	105 °C	9k h	14k h	20k h	31k h	33k h	50k h

5. Electrical values

5.1 Declaration of electrical parameters

I_{rated} ... Nominal operating current the module is designed for.

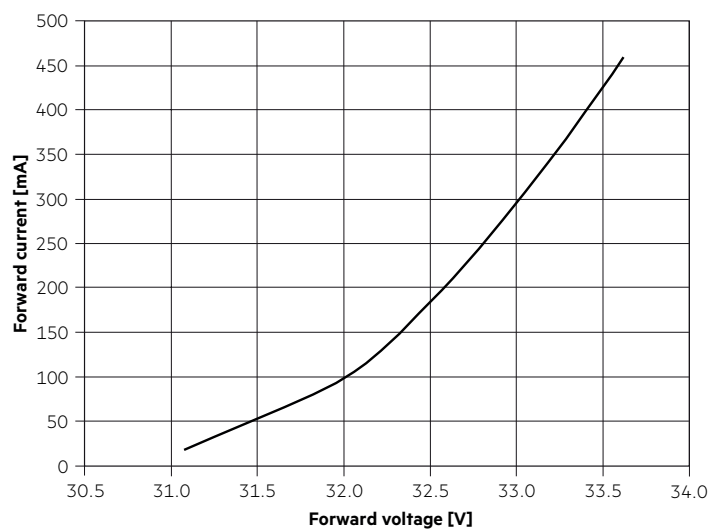
I_{max} ... Max. permissible continuous operating current incl. The tolerances of the LED driver.

Max. permissible LF current ripple ... Max. output current of the LED driver incl. Tolerances and LF current ripple must not exceed this value.

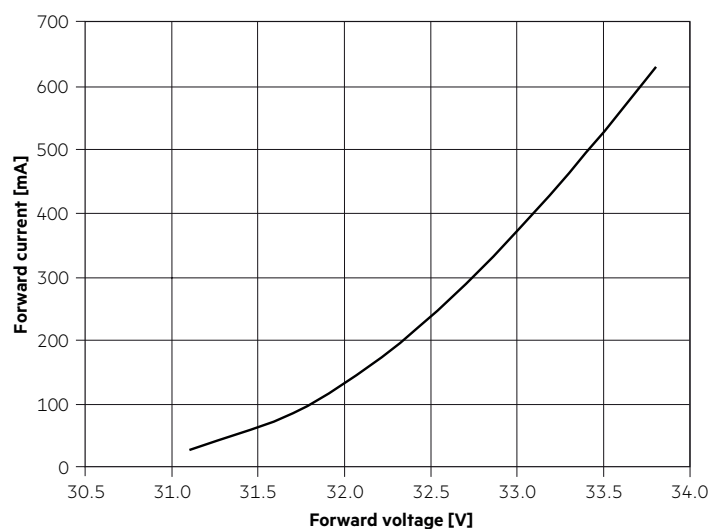
Max. permissible peak current ... The max. output peak current of the LED driver must not exceed this value.

5.2 Typ. forward voltage vs. forward current

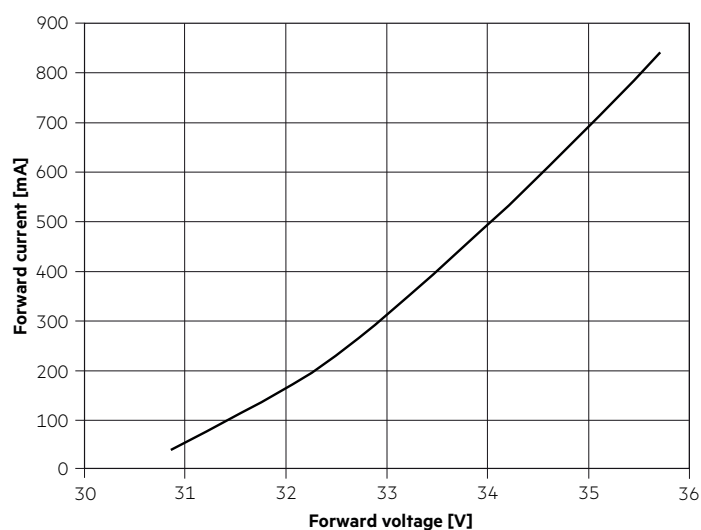
SLE 09mm 800lm ADV8



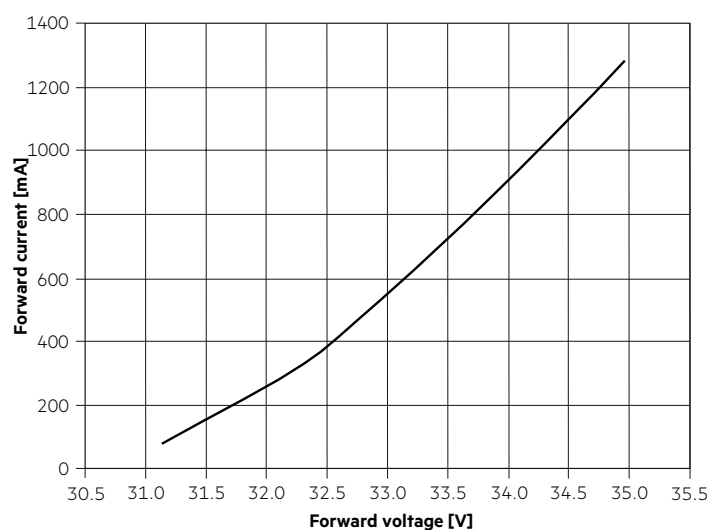
SLE 09mm 1200lm ADV8



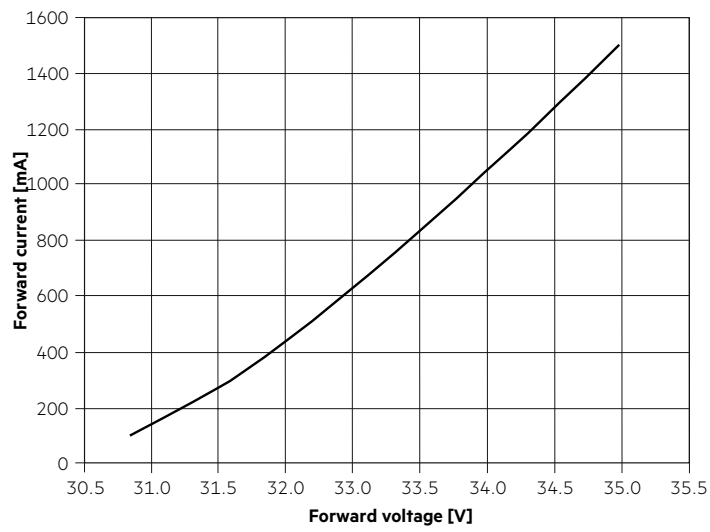
SLE 13mm 3000lm ADV8



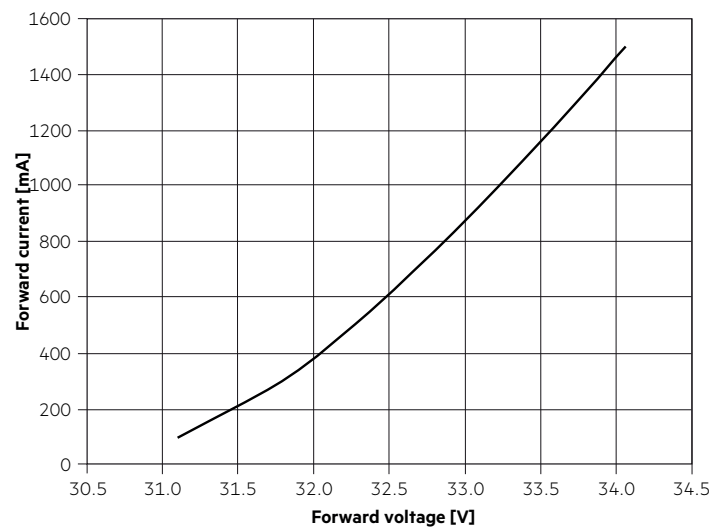
SLE 15mm 4000lm ADV8



SLE 17mm 5000lm ADV8

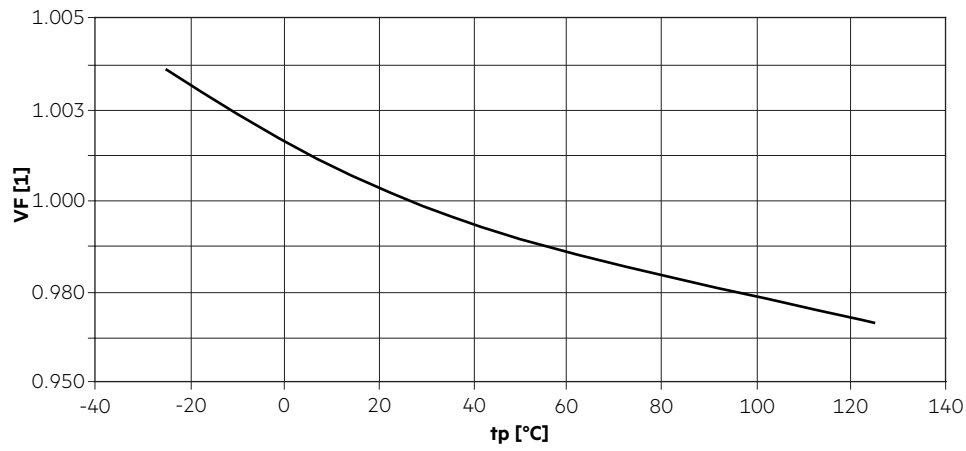


SLE 21mm 6000lm ADV8

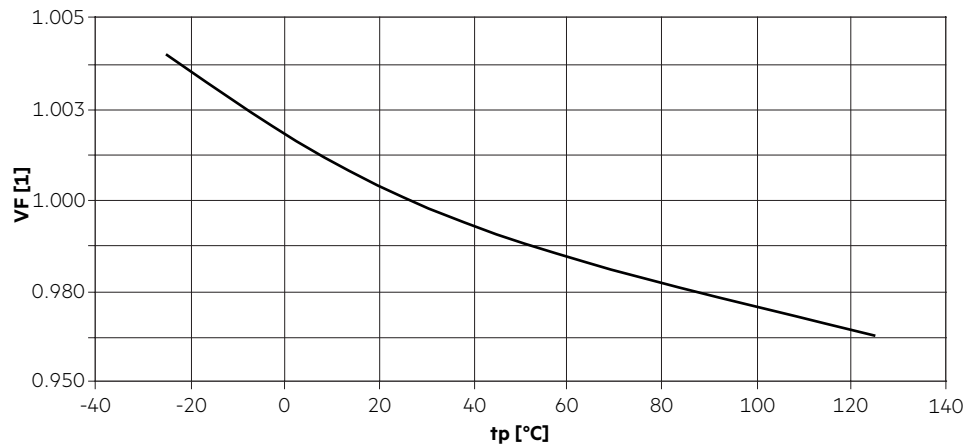


5.3 Forward voltage vs. tp temperature

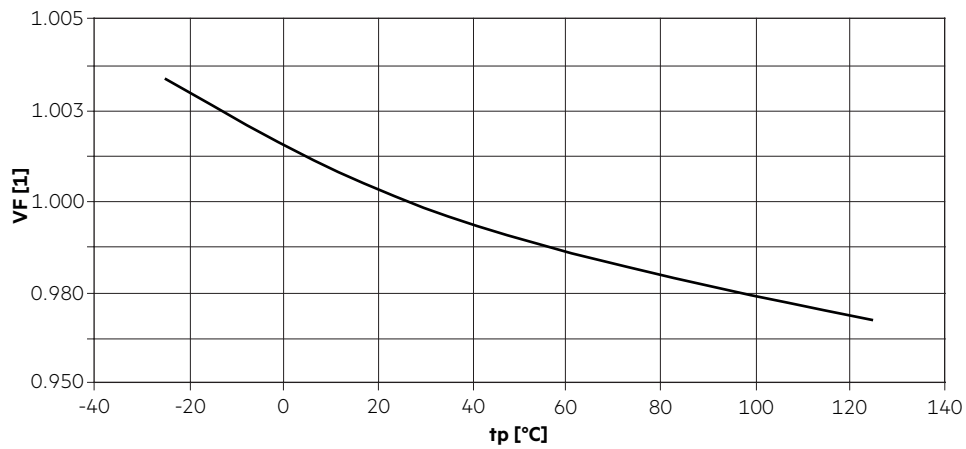
SLE 09mm 800lm ADV8



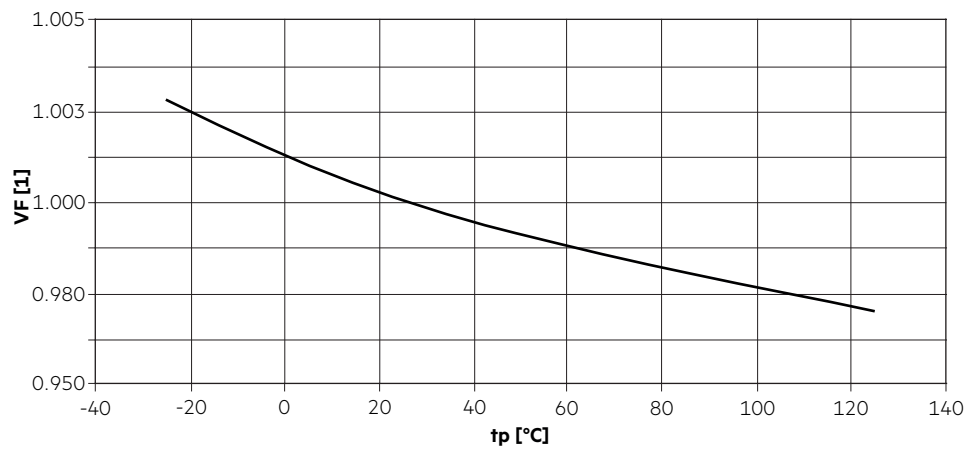
SLE 09mm 1200lm ADV8



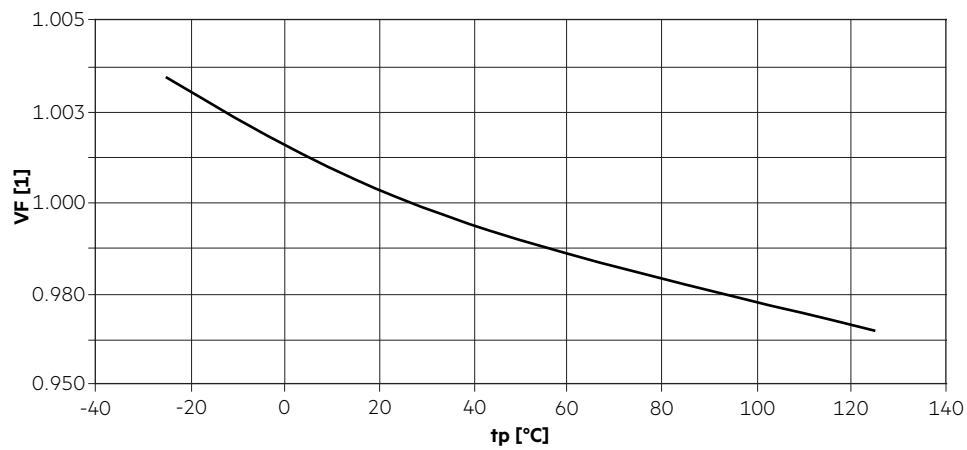
SLE 13mm 3000lm ADV8



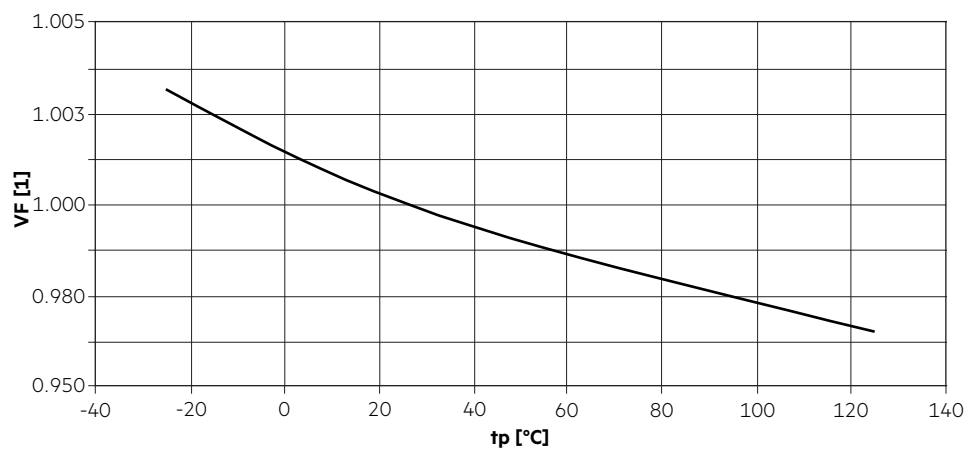
SLE 15mm 4000lm ADV8



SLE 17mm 5000lm ADV8



SLE 21mm 6000lm ADV8



The diagrams based on statistic values.
The real values can be different.

6. Photometric characteristics

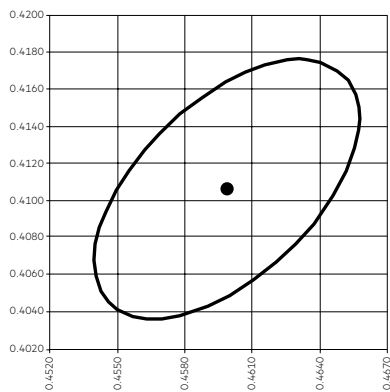
6.1 Coordinates and tolerances according to CIE 1931 and colour rendering

The specified colour coordinates are measured integral after a settling time of 100 ms. The current impuls depends on the module type. The ambient temperature of the measurement is $t_a = 25^\circ\text{C}$. The measurement tolerance of the colour coordinates are ± 0.005 .

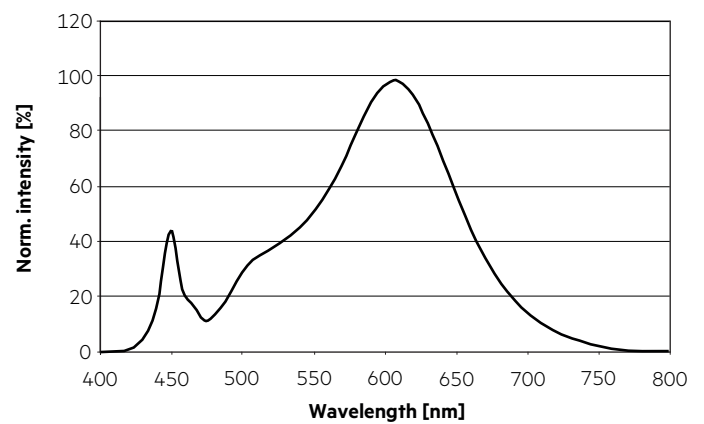
Module type	Current impulse
SLE 09mm 800 / 1200lm xxx ADV8	350 mA
SLE 13mm 3000lm xxx ADV8	500 mA
SLE 15mm 4000lm xxx ADV8	800 mA
SLE 17mm 5000lm xxx ADV8	900 mA
SLE 21mm 6000lm xxx ADV8	1,200 mA

2,700 K – CRI80

	x0	y0
Centre	0.4599	0.4106

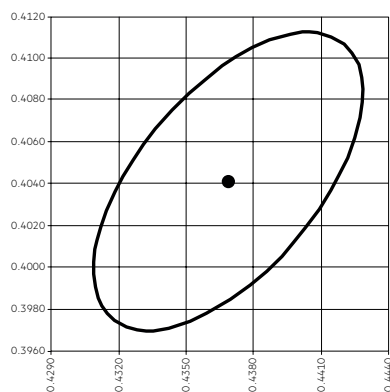


MacAdam ellipse: 3SDCM

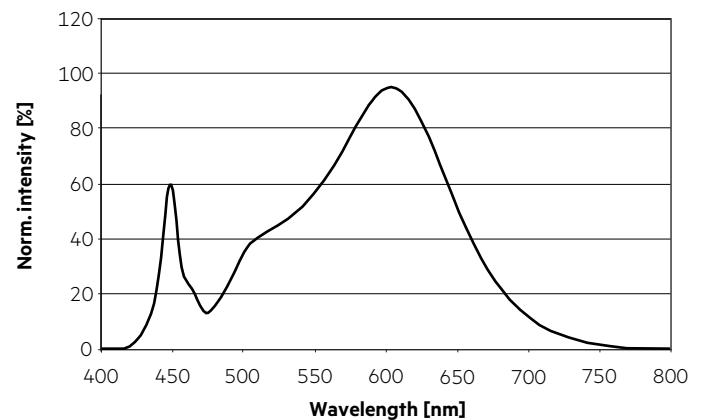


3,000 K – CRI80

	x0	y0
Centre	0.4369	0.4041

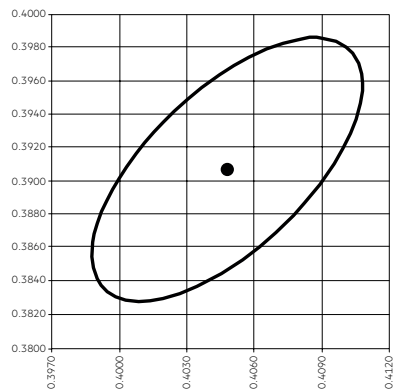


MacAdam ellipse: 3SDCM

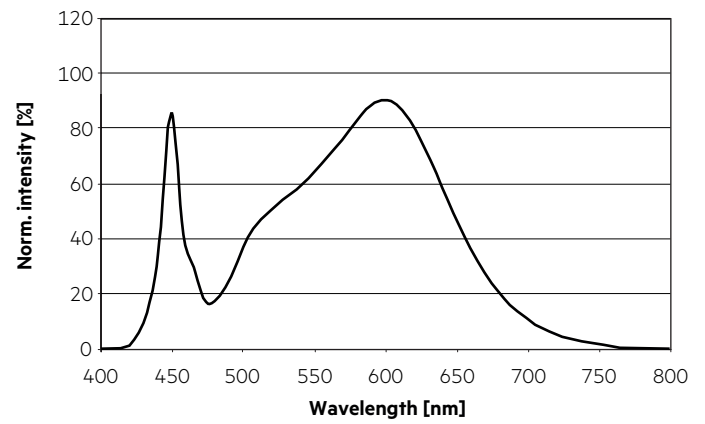


3,500 K – CRI80

	x0	y0
Centre	0.4053	0.3907

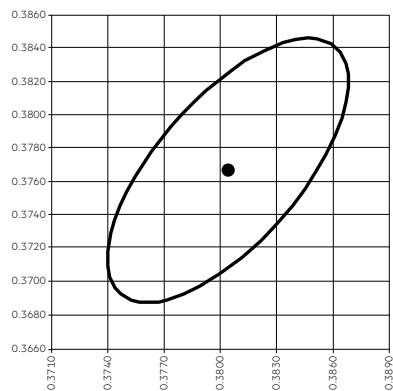


MacAdam ellipse: 3SDCM

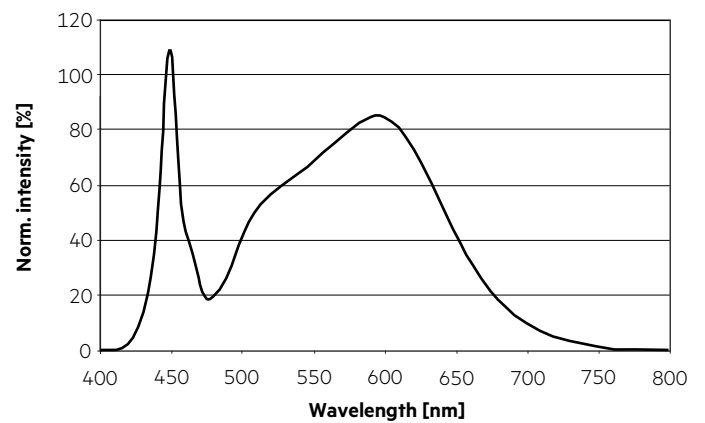


4,000 K – CRI80

	x0	y0
Centre	0.3804	0.3767

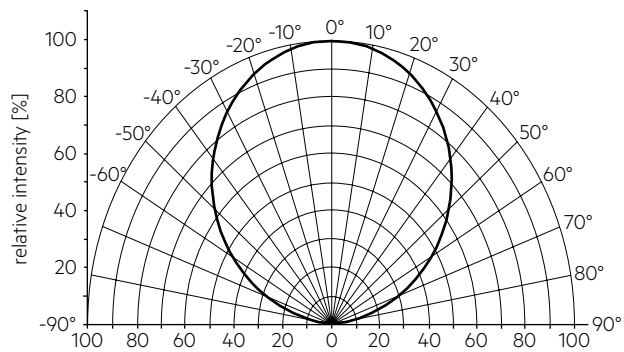


MacAdam ellipse: 3SDCM



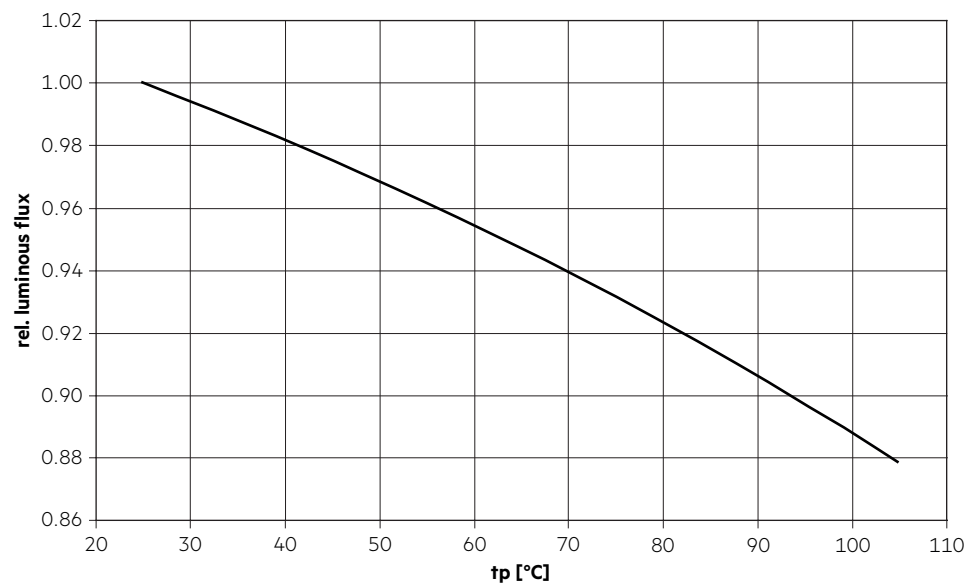
6.2 Light distribution

The optical design of the SLE product line ensures optimum homogeneity for the light distribution.

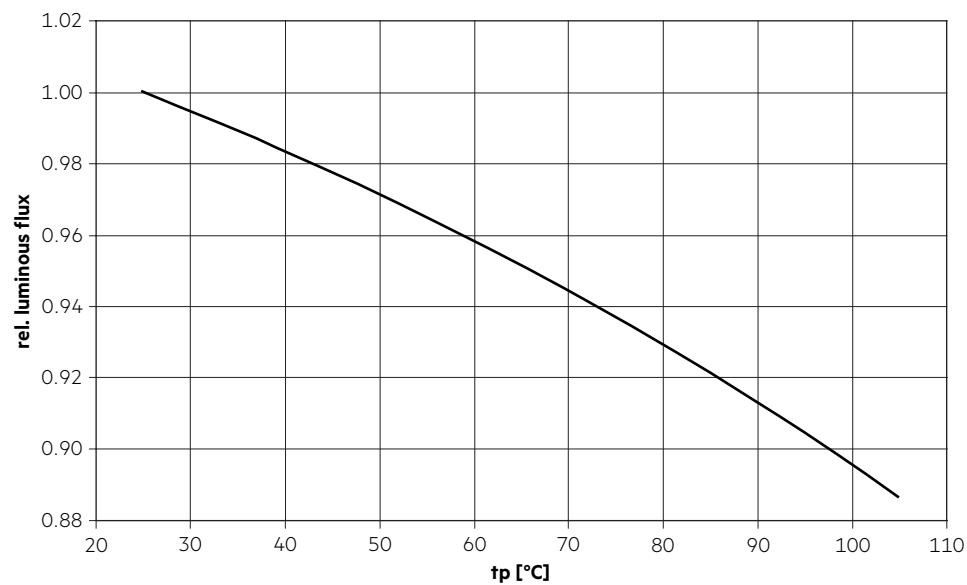


6.3 Relative luminous flux vs. tp temperature

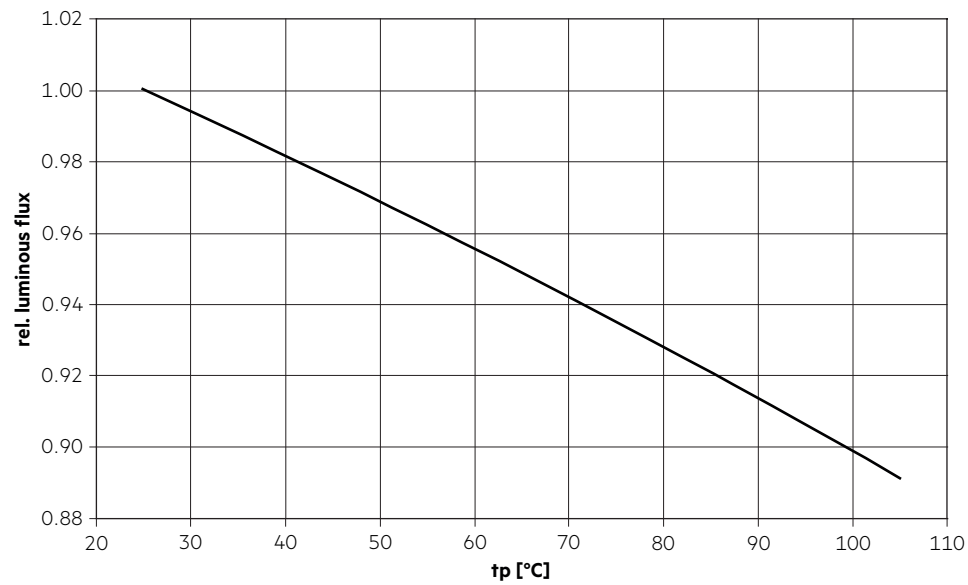
SLE 09mm 800lm ADV8



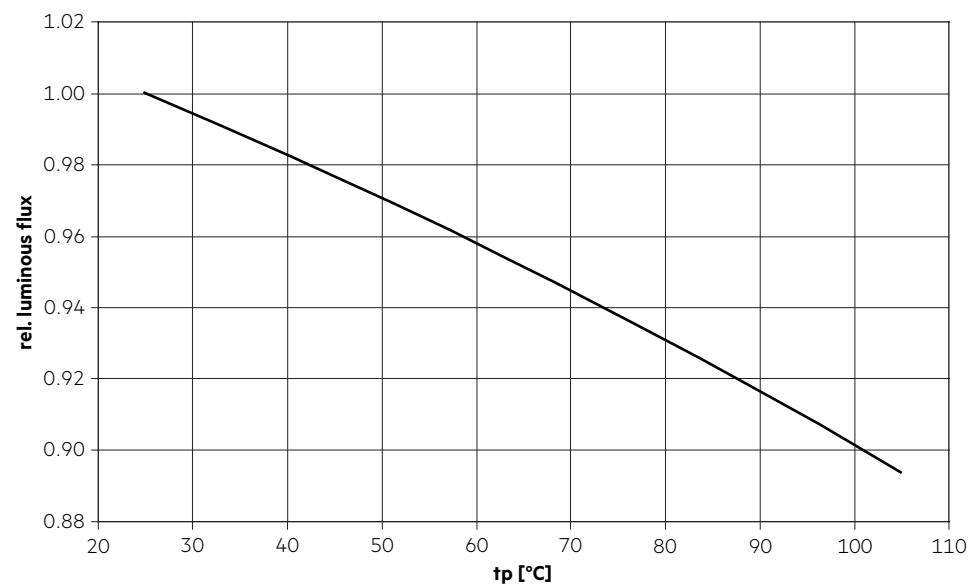
SLE 09mm 1200lm ADV8



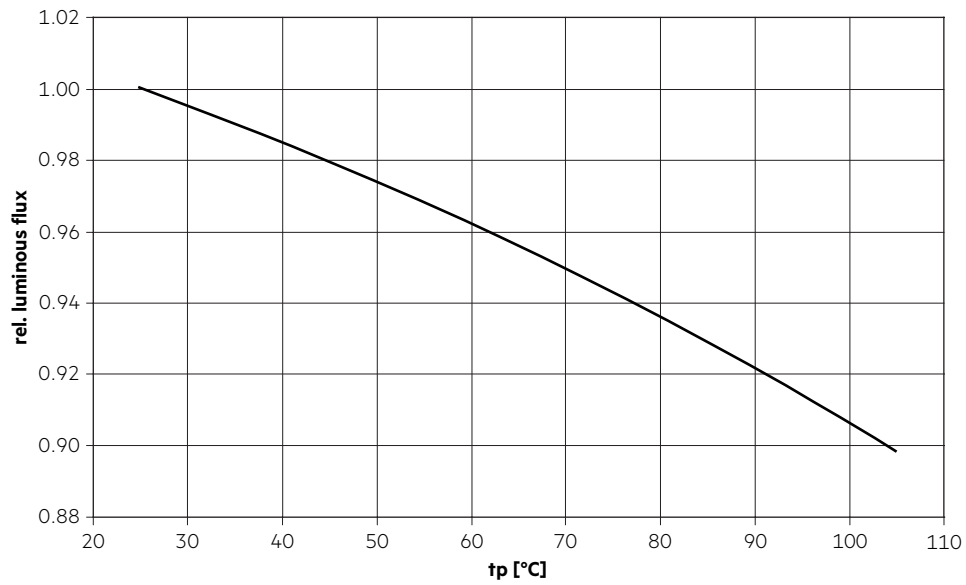
SLE 13mm 3000lm ADV8



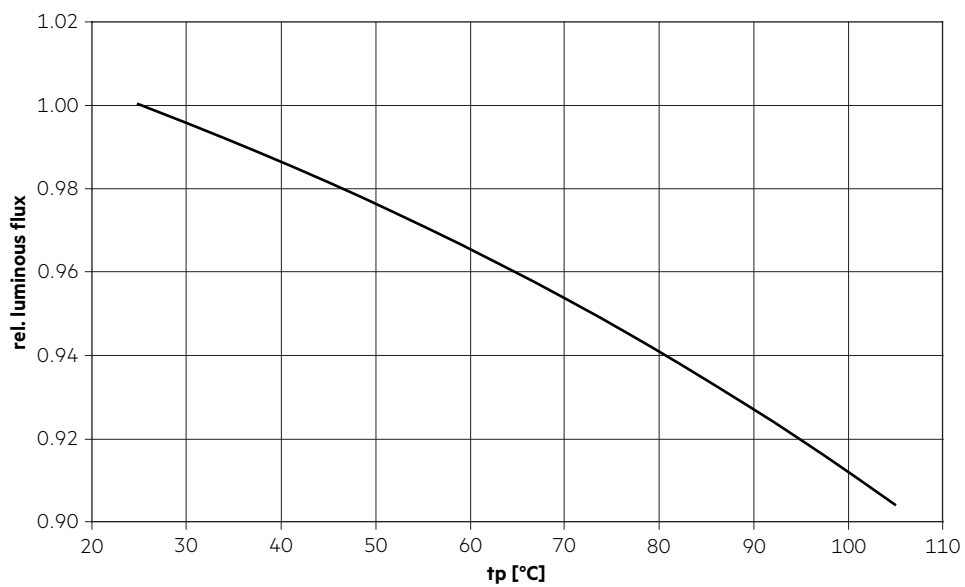
SLE 15mm 4000lm ADV8



SLE 17mm 5000lm ADV8

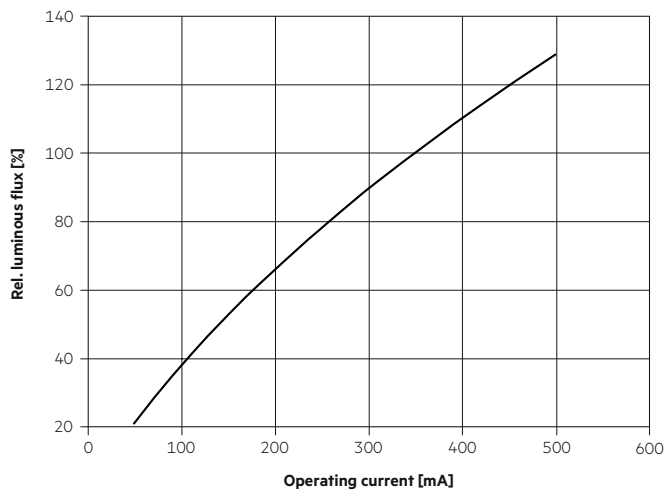


SLE 21mm 6000lm ADV8

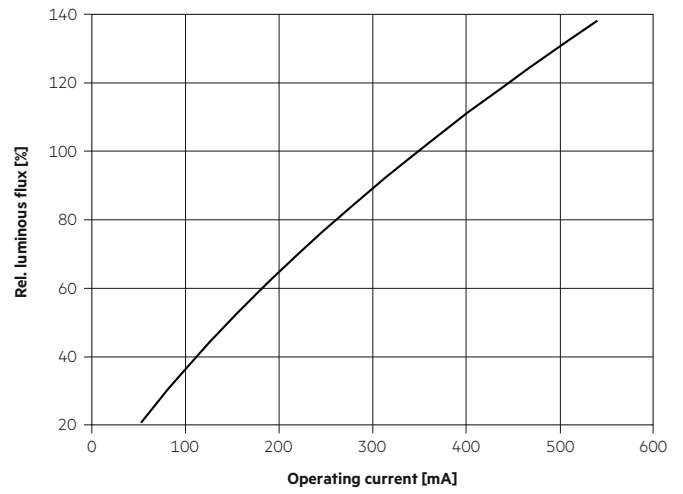


6.4 Relative luminous flux vs. operating current

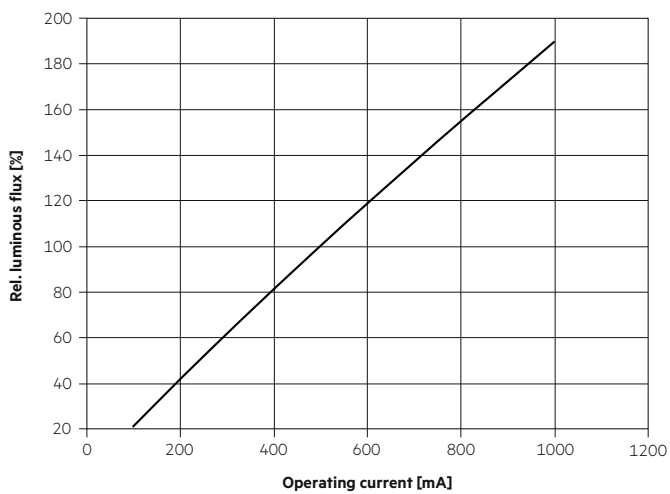
SLE 09mm 800lm ADV8



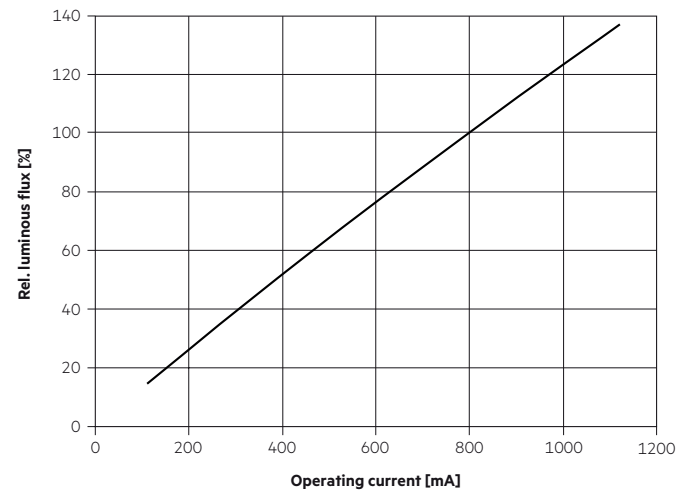
SLE 09mm 1200lm ADV8



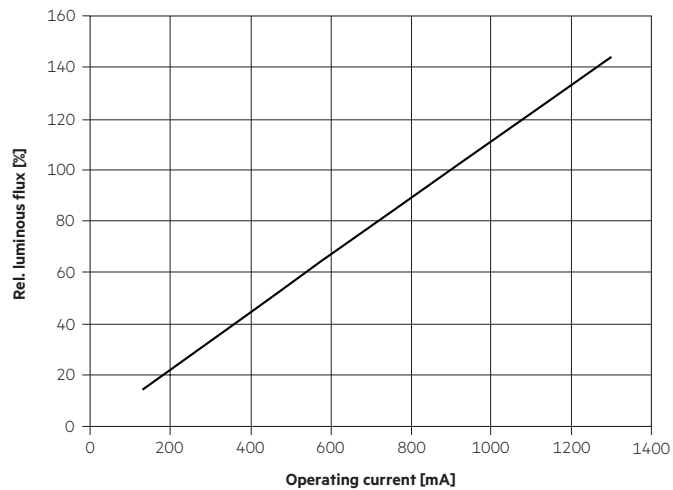
SLE 13mm 3000lm ADV8



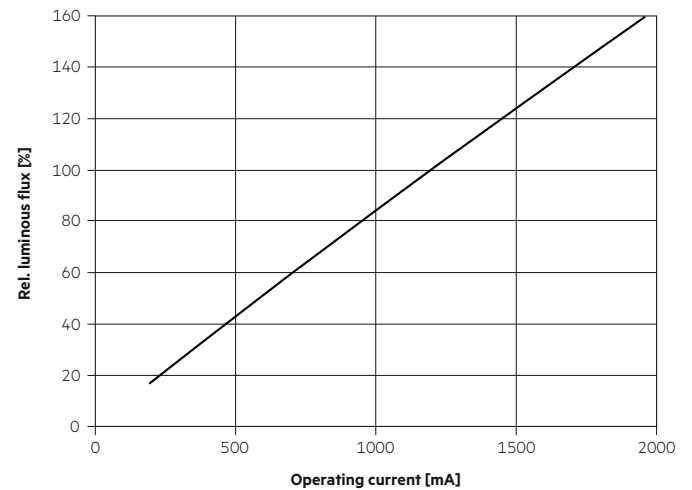
SLE 15mm 4000lm ADV8



SLE 17mm 5000lm ADV8



SLE 21mm 6000lm ADV8



7. Miscellaneous

7.1 Additional information

Additional technical information at www.tridonic.com → Technical Data

Energy label and further information at www.tridonic.com in the certificates tab of the corresponding product page and at the EPREL data base <https://eprelec.europa.eu/>

Guarantee conditions at www.tridonic.com → Services

Lifetime declarations are informative and represent no warranty claim.