



Module RLE 2x4 / 2x6 / 2x8 EXC3 OTD

Modules RLE excite

Product description

- High efficiency outdoor modules
- Suitable for harsh and humid outdoor conditions
- Tested acc. to salt spray test (IEC 60068-2-52) and harmful gas test (GR-1217-CORE)
- Huge performance temperature range from -40 ... +95 °C
- Surge tested (+/- to earth) 6 kV with Tridonic LED driver
- Zhaga Book 15 compliant
- For use with standard 2x2 lenses (e.g. LEDiL Strada 2x2)
- Push terminals for quick and simple wiring
- Long lifetime up to 100,000 hours
- 8 years guarantee (conditions at www.tridonic.com)

Optical properties

- Colour temperatures 2,200 K, 2,700 K, 3,000 K, 4,000 K and 6,500 K
- Efficacy of the LED module up to 209 lm/W at Irated and $t_p = 25\text{ °C}$
- Two colour rendering index to fit the application:
CRI > 70 high efficiency, CRI > 80 for high colour rendering
- Small luminous flux tolerances^①

Mechanical properties

- Module dimension 49.5 x 121.4 mm, 49.5 x 172.2 mm and 49.5 x 223 mm
- Installation of the module together with lens in the luminaire by means of an M3 screw

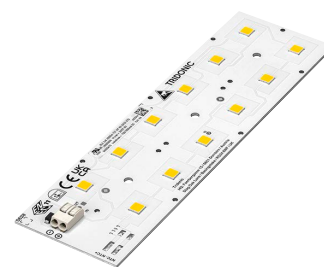


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Colour temperatures and tolerances, page 13



RLE 2x4 3000lm HP EXC3 OTD



RLE 2x6 4500lm HP EXC3 OTD



RLE 2x8 6000lm HP EXC3 OTD





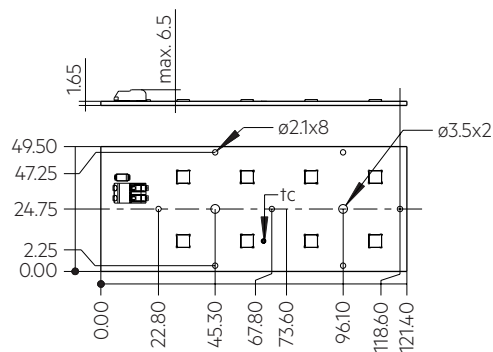
Module RLE 2x4 / 2x6 / 2x8 EXC3 OTD

Modules RLE excite

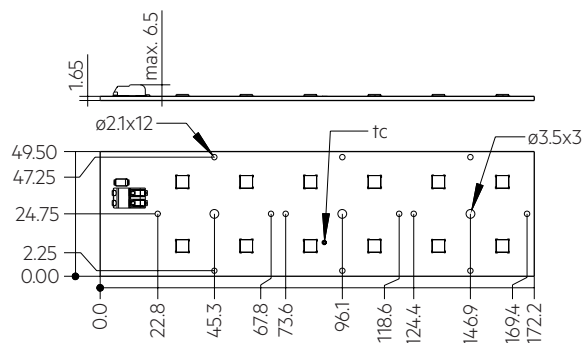
Technical data

Colour consistency [®]	3 SDCM
ESD classification	severity level 4
Classification acc. to IEC 62031	Built-in
Type of protection	IP00
Lumen maintenance L70B50	100,000 h
Guarantee	8 year(s)

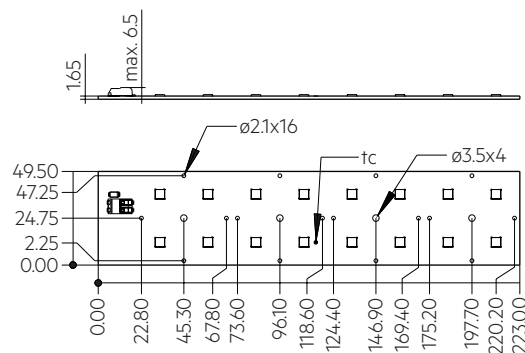
[®] Integral measurement over the complete module.



RLE 2x4 3000lm HP EXC3 OTD



RLE 2x6 4500lm HP EXC3 OTD



RLE 2x8 6000lm HP EXC3 OTD

Module RLE 2x4 / 2x6 / 2x8 EXC3 OTD

Modules RLE excite

Ordering data

Type	Article number	Colour temperature	Packaging carton	Weight per pc.
RLE 2x4 3000lm 722 HP HE EXC3 OTD	28005059	2,200 K	80 pc(s).	0.027 kg
RLE 2x4 3000lm 727 HP HE EXC3 OTD	28005060	2,700 K	80 pc(s).	0.027 kg
RLE 2x4 3000lm 730 HP HE EXC3 OTD	28005061	3,000 K	80 pc(s).	0.027 kg
RLE 2x4 3000lm 740 HP HE EXC3 OTD	28005062	4,000 K	80 pc(s).	0.027 kg
RLE 2x4 3000lm 765 HP HE EXC3 OTD	28005063	6,500 K	80 pc(s).	0.027 kg
RLE 2x4 3000lm 822 HP HE EXC3 OTD	28005064	2,200 K	80 pc(s).	0.027 kg
RLE 2x4 3000lm 827 HP HE EXC3 OTD	28005065	2,700 K	80 pc(s).	0.027 kg
RLE 2x4 3000lm 830 HP HE EXC3 OTD	28005066	3,000 K	80 pc(s).	0.027 kg
RLE 2x4 3000lm 840 HP HE EXC3 OTD	28005080	4,000 K	80 pc(s).	0.027 kg
RLE 2x6 4500lm 722 HP HE EXC3 OTD	28005098	2,200 K	80 pc(s).	0.039 kg
RLE 2x6 4500lm 727 HP HE EXC3 OTD	28005099	2,700 K	80 pc(s).	0.039 kg
RLE 2x6 4500lm 730 HP HE EXC3 OTD	28005100	3,000 K	80 pc(s).	0.039 kg
RLE 2x6 4500lm 740 HP HE EXC3 OTD	28005101	4,000 K	80 pc(s).	0.039 kg
RLE 2x8 6000lm 722 HP HE EXC3 OTD	28005067	2,200 K	80 pc(s).	0.050 kg
RLE 2x8 6000lm 727 HP HE EXC3 OTD	28005068	2,700 K	80 pc(s).	0.050 kg
RLE 2x8 6000lm 730 HP HE EXC3 OTD	28005069	3,000 K	80 pc(s).	0.050 kg
RLE 2x8 6000lm 740 HP HE EXC3 OTD	28005070	4,000 K	80 pc(s).	0.050 kg
RLE 2x8 6000lm 765 HP HE EXC3 OTD	28005071	6,500 K	80 pc(s).	0.050 kg
RLE 2x8 6000lm 822 HP HE EXC3 OTD	28005072	2,200 K	80 pc(s).	0.050 kg
RLE 2x8 6000lm 827 HP HE EXC3 OTD	28005073	2,700 K	80 pc(s).	0.050 kg
RLE 2x8 6000lm 830 HP HE EXC3 OTD	28005074	3,000 K	80 pc(s).	0.050 kg
RLE 2x8 6000lm 840 HP HE EXC3 OTD	28005075	4,000 K	80 pc(s).	0.050 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.				
Operating mode HE										
RLE 2x4 3000lm 722 HP HE EXC3 OTD	2,200 K	722/579	–	1,400 lm	1,560 lm	1,720 lm	–	179 lm/W	120°	>70
RLE 2x4 3000lm 727 HP HE EXC3 OTD	2,700 K	727/579	–	1,530 lm	1,710 lm	1,890 lm	–	196 lm/W	120°	>70
RLE 2x4 3000lm 730 HP HE EXC3 OTD	3,000 K	730/579	–	1,560 lm	1,740 lm	1,910 lm	–	199 lm/W	120°	>70
RLE 2x4 3000lm 740 HP HE EXC3 OTD	4,000 K	740/579	–	1,650 lm	1,840 lm	2,020 lm	–	210 lm/W	120°	>70
RLE 2x4 3000lm 765 HP HE EXC3 OTD	6,500 K	765/579	–	1,580 lm	1,760 lm	1,940 lm	–	202 lm/W	120°	>70
RLE 2x4 3000lm 822 HP HE EXC3 OTD	2,200 K	822/579	–	1,150 lm	1,280 lm	1,420 lm	–	147 lm/W	120°	>80
RLE 2x4 3000lm 827 HP HE EXC3 OTD	2,700 K	827/579	–	1,330 lm	1,480 lm	1,640 lm	–	170 lm/W	120°	>80
RLE 2x4 3000lm 830 HP HE EXC3 OTD	3,000 K	830/579	–	1,400 lm	1,560 lm	1,720 lm	–	179 lm/W	120°	>80
RLE 2x4 3000lm 840 HP HE EXC3 OTD	4,000 K	840/579	–	1,490 lm	1,660 lm	1,830 lm	–	190 lm/W	120°	>80
RLE 2x6 4500lm 722 HP HE EXC3 OTD	2,200 K	722/579	–	2,100 lm	2,340 lm	2,580 lm	–	179 lm/W	120°	>70
RLE 2x6 4500lm 727 HP HE EXC3 OTD	2,700 K	727/579	–	2,300 lm	2,570 lm	2,830 lm	–	196 lm/W	120°	>70
RLE 2x6 4500lm 730 HP HE EXC3 OTD	3,000 K	730/579	–	2,340 lm	2,600 lm	2,870 lm	–	199 lm/W	120°	>70
RLE 2x6 4500lm 740 HP HE EXC3 OTD	4,000 K	740/579	–	2,470 lm	2,750 lm	3,030 lm	–	210 lm/W	120°	>70
RLE 2x8 6000lm 722 HP HE EXC3 OTD	2,200 K	722/579	–	2,800 lm	3,120 lm	3,440 lm	–	179 lm/W	120°	>70
RLE 2x8 6000lm 727 HP HE EXC3 OTD	2,700 K	727/579	–	3,070 lm	3,420 lm	3,770 lm	–	196 lm/W	120°	>70
RLE 2x8 6000lm 730 HP HE EXC3 OTD	3,000 K	730/579	–	3,120 lm	3,470 lm	3,820 lm	–	199 lm/W	120°	>70
RLE 2x8 6000lm 740 HP HE EXC3 OTD	4,000 K	740/579	–	3,300 lm	3,670 lm	4,040 lm	–	210 lm/W	120°	>70
RLE 2x8 6000lm 765 HP HE EXC3 OTD	6,500 K	765/579	–	3,160 lm	3,520 lm	3,880 lm	–	202 lm/W	120°	>70
RLE 2x8 6000lm 822 HP HE EXC3 OTD	2,200 K	822/579	–	2,300 lm	2,570 lm	2,830 lm	–	147 lm/W	120°	>80
RLE 2x8 6000lm 827 HP HE EXC3 OTD	2,700 K	827/579	–	2,670 lm	2,970 lm	3,270 lm	–	170 lm/W	120°	>80
RLE 2x8 6000lm 830 HP HE EXC3 OTD	3,000 K	830/579	–	2,800 lm	3,120 lm	3,440 lm	–	179 lm/W	120°	>80
RLE 2x8 6000lm 840 HP HE EXC3 OTD	4,000 K	840/579	–	2,980 lm	3,320 lm	3,660 lm	–	190 lm/W	120°	>80
Operating mode NM										
RLE 2x4 3000lm 722 HP HE EXC3 OTD	2,200 K	722/579	2,790 lm	2,360 lm	2,630 lm	2,900 lm	177 lm/W	166 lm/W	120°	>70
RLE 2x4 3000lm 727 HP HE EXC3 OTD	2,700 K	727/579	3,000 lm	2,590 lm	2,890 lm	3,180 lm	194 lm/W	182 lm/W	120°	>70
RLE 2x4 3000lm 730 HP HE EXC3 OTD	3,000 K	730/579	3,100 lm	2,630 lm	2,930 lm	3,230 lm	197 lm/W	185 lm/W	120°	>70
RLE 2x4 3000lm 740 HP HE EXC3 OTD	4,000 K	740/579	3,220 lm	2,780 lm	3,100 lm	3,410 lm	209 lm/W	195 lm/W	120°	>70
RLE 2x4 3000lm 765 HP HE EXC3 OTD	6,500 K	765/579	3,100 lm	2,670 lm	2,970 lm	3,270 lm	200 lm/W	187 lm/W	120°	>70
RLE 2x4 3000lm 822 HP HE EXC3 OTD	2,200 K	822/579	2,350 lm	1,940 lm	2,160 lm	2,390 lm	146 lm/W	137 lm/W	120°	>80
RLE 2x4 3000lm 827 HP HE EXC3 OTD	2,700 K	827/579	2,710 lm	2,250 lm	2,500 lm	2,760 lm	169 lm/W	158 lm/W	120°	>80
RLE 2x4 3000lm 830 HP HE EXC3 OTD	3,000 K	830/579	2,850 lm	2,360 lm	2,630 lm	2,900 lm	177 lm/W	166 lm/W	120°	>80
RLE 2x4 3000lm 840 HP HE EXC3 OTD	4,000 K	840/579	3,030 lm	2,520 lm	2,800 lm	3,090 lm	189 lm/W	177 lm/W	120°	>80
RLE 2x6 4500lm 722 HP HE EXC3 OTD	2,200 K	722/579	4,270 lm	3,550 lm	3,950 lm	4,350 lm	177 lm/W	166 lm/W	120°	>70
RLE 2x6 4500lm 727 HP HE EXC3 OTD	2,700 K	727/579	4,680 lm	3,890 lm	4,330 lm	4,770 lm	194 lm/W	182 lm/W	120°	>70
RLE 2x6 4500lm 730 HP HE EXC3 OTD	3,000 K	730/579	4,750 lm	3,950 lm	4,390 lm	4,840 lm	197 lm/W	185 lm/W	120°	>70
RLE 2x6 4500lm 740 HP HE EXC3 OTD	4,000 K	740/579	5,030 lm	4,180 lm	4,650 lm	5,120 lm	209 lm/W	195 lm/W	120°	>70
RLE 2x8 6000lm 722 HP HE EXC3 OTD	2,200 K	722/579	5,690 lm	4,730 lm	5,260 lm	5,790 lm	177 lm/W	166 lm/W	120°	>70
RLE 2x8 6000lm 727 HP HE EXC3 OTD	2,700 K	727/579	6,250 lm	5,190 lm	5,770 lm	6,350 lm	195 lm/W	182 lm/W	120°	>70
RLE 2x8 6000lm 730 HP HE EXC3 OTD	3,000 K	730/579	6,340 lm	5,270 lm	5,860 lm	6,450 lm	198 lm/W	185 lm/W	120°	>70
RLE 2x8 6000lm 740 HP HE EXC3 OTD	4,000 K	740/579	6,700 lm	5,570 lm	6,200 lm	6,820 lm	209 lm/W	195 lm/W	120°	>70
RLE 2x8 6000lm 765 HP HE EXC3 OTD	6,500 K	765/579	6,430 lm	5,340 lm	5,940 lm	6,540 lm	200 lm/W	187 lm/W	120°	>70
RLE 2x8 6000lm 822 HP HE EXC3 OTD	2,200 K	822/579	4,680 lm	3,890 lm	4,330 lm	4,770 lm	146 lm/W	137 lm/W	120°	>80
RLE 2x8 6000lm 827 HP HE EXC3 OTD	2,700 K	827/579	5,420 lm	4,500 lm	5,010 lm	5,510 lm	169 lm/W	158 lm/W	120°	>80
RLE 2x8 6000lm 830 HP HE EXC3 OTD	3,000 K	830/579	5,690 lm	4,730 lm	5,260 lm	5,790 lm	177 lm/W	166 lm/W	120°	>80
RLE 2x8 6000lm 840 HP HE EXC3 OTD	4,000 K	840/579	6,060 lm	5,040 lm	5,600 lm	6,170 lm	189 lm/W	177 lm/W	120°	>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.				
Operating mode HO										
RLE 2x4 3000lm 722 HP HE EXC3 OTD	2,200 K	722/579	–	4,760 lm	5,290 lm	5,820 lm	–	144 lm/W	120°	>70
RLE 2x4 3000lm 727 HP HE EXC3 OTD	2,700 K	727/579	–	5,220 lm	5,800 lm	6,390 lm	–	158 lm/W	120°	>70
RLE 2x4 3000lm 730 HP HE EXC3 OTD	3,000 K	730/579	–	5,290 lm	5,890 lm	6,480 lm	–	160 lm/W	120°	>70
RLE 2x4 3000lm 740 HP HE EXC3 OTD	4,000 K	740/579	–	5,600 lm	6,230 lm	6,860 lm	–	169 lm/W	120°	>70
RLE 2x4 3000lm 765 HP HE EXC3 OTD	6,500 K	765/579	–	5,370 lm	5,970 lm	6,580 lm	–	162 lm/W	120°	>70
RLE 2x4 3000lm 822 HP HE EXC3 OTD	2,200 K	822/579	–	3,910 lm	4,350 lm	4,790 lm	–	118 lm/W	120°	>80
RLE 2x4 3000lm 827 HP HE EXC3 OTD	2,700 K	827/579	–	4,530 lm	5,030 lm	5,540 lm	–	137 lm/W	120°	>80
RLE 2x4 3000lm 830 HP HE EXC3 OTD	3,000 K	830/579	–	4,760 lm	5,290 lm	5,820 lm	–	144 lm/W	120°	>80
RLE 2x4 3000lm 840 HP HE EXC3 OTD	4,000 K	840/579	–	5,060 lm	5,630 lm	6,200 lm	–	153 lm/W	120°	>80
RLE 2x6 4500lm 722 HP HE EXC3 OTD	2,200 K	722/579	–	7,140 lm	7,940 lm	8,730 lm	–	144 lm/W	120°	>70
RLE 2x6 4500lm 727 HP HE EXC3 OTD	2,700 K	727/579	–	7,830 lm	8,700 lm	9,580 lm	–	158 lm/W	120°	>70
RLE 2x6 4500lm 730 HP HE EXC3 OTD	3,000 K	730/579	–	7,940 lm	8,830 lm	9,720 lm	–	160 lm/W	120°	>70
RLE 2x6 4500lm 740 HP HE EXC3 OTD	4,000 K	740/579	–	8,400 lm	9,340 lm	10,280 lm	–	169 lm/W	120°	>70
RLE 2x8 6000lm 722 HP HE EXC3 OTD	2,200 K	722/579	–	9,520 lm	10,580 lm	11,640 lm	–	144 lm/W	120°	>70
RLE 2x8 6000lm 727 HP HE EXC3 OTD	2,700 K	727/579	–	10,440 lm	11,600 lm	12,770 lm	–	158 lm/W	120°	>70
RLE 2x8 6000lm 730 HP HE EXC3 OTD	3,000 K	730/579	–	10,590 lm	11,780 lm	12,960 lm	–	160 lm/W	120°	>70
RLE 2x8 6000lm 740 HP HE EXC3 OTD	4,000 K	740/579	–	11,210 lm	12,460 lm	13,710 lm	–	169 lm/W	120°	>70
RLE 2x8 6000lm 765 HP HE EXC3 OTD	6,500 K	765/579	–	10,750 lm	11,950 lm	13,150 lm	–	162 lm/W	120°	>70
RLE 2x8 6000lm 822 HP HE EXC3 OTD	2,200 K	822/579	–	7,830 lm	8,700 lm	9,580 lm	–	118 lm/W	120°	>80
RLE 2x8 6000lm 827 HP HE EXC3 OTD	2,700 K	827/579	–	9,060 lm	10,070 lm	11,080 lm	–	137 lm/W	120°	>80
RLE 2x8 6000lm 830 HP HE EXC3 OTD	3,000 K	830/579	–	9,520 lm	10,580 lm	11,640 lm	–	144 lm/W	120°	>80
RLE 2x8 6000lm 840 HP HE EXC3 OTD	4,000 K	840/579	–	10,130 lm	11,260 lm	12,390 lm	–	153 lm/W	120°	>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
Operating mode HE								
RLE 2x4 3000lm 722 HP HE EXC3 OTD	400 mA	20.9 V	21.8 V	23.2 V	–	–	–	–
RLE 2x4 3000lm 727 HP HE EXC3 OTD	400 mA	20.9 V	21.8 V	23.2 V	–	–	–	–
RLE 2x4 3000lm 730 HP HE EXC3 OTD	400 mA	20.9 V	21.8 V	23.2 V	–	–	–	–
RLE 2x4 3000lm 740 HP HE EXC3 OTD	400 mA	20.9 V	21.8 V	23.2 V	–	–	–	–
RLE 2x4 3000lm 765 HP HE EXC3 OTD	400 mA	20.9 V	21.8 V	23.2 V	–	–	–	–
RLE 2x4 3000lm 822 HP HE EXC3 OTD	400 mA	20.9 V	21.8 V	23.2 V	–	–	–	–
RLE 2x4 3000lm 827 HP HE EXC3 OTD	400 mA	20.9 V	21.8 V	23.2 V	–	–	–	–
RLE 2x4 3000lm 830 HP HE EXC3 OTD	400 mA	20.9 V	21.8 V	23.2 V	–	–	–	–
RLE 2x4 3000lm 840 HP HE EXC3 OTD	400 mA	20.9 V	21.8 V	23.2 V	–	–	–	–
RLE 2x6 4500lm 722 HP HE EXC3 OTD	400 mA	31.3 V	32.7 V	34.8 V	–	–	–	–
RLE 2x6 4500lm 727 HP HE EXC3 OTD	400 mA	31.3 V	32.7 V	34.8 V	–	–	–	–
RLE 2x6 4500lm 730 HP HE EXC3 OTD	400 mA	31.3 V	32.7 V	34.8 V	–	–	–	–
RLE 2x6 4500lm 740 HP HE EXC3 OTD	400 mA	31.3 V	32.7 V	34.8 V	–	–	–	–
RLE 2x8 6000lm 722 HP HE EXC3 OTD	400 mA	41.8 V	43.6 V	46.4 V	–	–	–	–
RLE 2x8 6000lm 727 HP HE EXC3 OTD	400 mA	41.8 V	43.6 V	46.4 V	–	–	–	–
RLE 2x8 6000lm 730 HP HE EXC3 OTD	400 mA	39.1 V	41.0 V	43.7 V	–	–	–	–
RLE 2x8 6000lm 740 HP HE EXC3 OTD	400 mA	41.8 V	43.6 V	46.4 V	–	–	–	–
RLE 2x8 6000lm 765 HP HE EXC3 OTD	400 mA	41.8 V	43.6 V	46.4 V	–	–	–	–
RLE 2x8 6000lm 822 HP HE EXC3 OTD	400 mA	41.8 V	43.6 V	46.4 V	–	–	–	–
RLE 2x8 6000lm 827 HP HE EXC3 OTD	400 mA	41.8 V	43.6 V	46.4 V	–	–	–	–
RLE 2x8 6000lm 830 HP HE EXC3 OTD	400 mA	41.8 V	43.6 V	46.4 V	–	–	–	–
RLE 2x8 6000lm 840 HP HE EXC3 OTD	400 mA	41.8 V	43.6 V	46.4 V	–	–	–	–
Operating mode NM								
RLE 2x4 3000lm 722 HP HE EXC3 OTD	700 mA	21.7 V	22.6 V	24.1 V	16.1 W	C	17 kWh / 1,000 h	non-directional
RLE 2x4 3000lm 727 HP HE EXC3 OTD	700 mA	21.7 V	22.6 V	24.1 V	16.1 W	C	17 kWh / 1,000 h	non-directional
RLE 2x4 3000lm 730 HP HE EXC3 OTD	700 mA	21.7 V	22.6 V	24.1 V	16.1 W	C	17 kWh / 1,000 h	non-directional
RLE 2x4 3000lm 740 HP HE EXC3 OTD	700 mA	21.7 V	22.6 V	24.1 V	16.1 W	B	17 kWh / 1,000 h	non-directional
RLE 2x4 3000lm 765 HP HE EXC3 OTD	700 mA	21.7 V	22.6 V	24.1 V	16.1 W	C	17 kWh / 1,000 h	non-directional
RLE 2x4 3000lm 822 HP HE EXC3 OTD	700 mA	21.7 V	22.6 V	24.1 V	16.1 W	D	17 kWh / 1,000 h	non-directional
RLE 2x4 3000lm 827 HP HE EXC3 OTD	700 mA	21.7 V	22.6 V	24.1 V	16.1 W	D	17 kWh / 1,000 h	non-directional
RLE 2x4 3000lm 830 HP HE EXC3 OTD	700 mA	21.7 V	22.6 V	24.1 V	16.1 W	C	17 kWh / 1,000 h	non-directional
RLE 2x4 3000lm 840 HP HE EXC3 OTD	700 mA	21.7 V	22.6 V	24.1 V	16.1 W	C	17 kWh / 1,000 h	non-directional
RLE 2x6 4500lm 722 HP HE EXC3 OTD	700 mA	32.6 V	34.0 V	36.1 V	24.1 W	C	25 kWh / 1,000 h	non-directional
RLE 2x6 4500lm 727 HP HE EXC3 OTD	700 mA	32.6 V	34.0 V	36.1 V	24.1 W	C	25 kWh / 1,000 h	non-directional
RLE 2x6 4500lm 730 HP HE EXC3 OTD	700 mA	32.6 V	34.0 V	36.1 V	24.1 W	C	25 kWh / 1,000 h	non-directional
RLE 2x6 4500lm 740 HP HE EXC3 OTD	700 mA	32.6 V	34.0 V	36.1 V	24.1 W	B	25 kWh / 1,000 h	non-directional
RLE 2x8 6000lm 722 HP HE EXC3 OTD	700 mA	43.4 V	45.3 V	48.1 V	32.1 W	C	33 kWh / 1,000 h	non-directional
RLE 2x8 6000lm 727 HP HE EXC3 OTD	700 mA	43.4 V	45.3 V	48.1 V	32.1 W	C	33 kWh / 1,000 h	non-directional
RLE 2x8 6000lm 730 HP HE EXC3 OTD	700 mA	43.4 V	45.3 V	48.1 V	32.1 W	C	33 kWh / 1,000 h	non-directional
RLE 2x8 6000lm 740 HP HE EXC3 OTD	700 mA	43.4 V	45.3 V	48.1 V	32.1 W	B	33 kWh / 1,000 h	non-directional
RLE 2x8 6000lm 765 HP HE EXC3 OTD	700 mA	43.4 V	45.3 V	48.1 V	32.1 W	B	33 kWh / 1,000 h	non-directional
RLE 2x8 6000lm 822 HP HE EXC3 OTD	700 mA	43.4 V	45.3 V	48.1 V	32.1 W	D	33 kWh / 1,000 h	non-directional
RLE 2x8 6000lm 827 HP HE EXC3 OTD	700 mA	43.4 V	45.3 V	48.1 V	32.1 W	D	33 kWh / 1,000 h	non-directional
RLE 2x8 6000lm 830 HP HE EXC3 OTD	700 mA	43.4 V	45.3 V	48.1 V	32.1 W	C	33 kWh / 1,000 h	non-directional
RLE 2x8 6000lm 840 HP HE EXC3 OTD	700 mA	43.4 V	45.3 V	48.1 V	32.1 W	C	33 kWh / 1,000 h	non-directional

^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
Operating mode HO								
RLE 2x4 3000lm 722 HP HE EXC3 OTD	1,500 mA	23.6 V	24.5 V	26.0 V	–	–	–	–
RLE 2x4 3000lm 727 HP HE EXC3 OTD	1,500 mA	23.6 V	24.5 V	26.0 V	–	–	–	–
RLE 2x4 3000lm 730 HP HE EXC3 OTD	1,500 mA	23.6 V	24.5 V	26.0 V	–	–	–	–
RLE 2x4 3000lm 740 HP HE EXC3 OTD	1,500 mA	23.6 V	24.5 V	26.0 V	–	–	–	–
RLE 2x4 3000lm 765 HP HE EXC3 OTD	1,500 mA	23.6 V	24.5 V	26.0 V	–	–	–	–
RLE 2x4 3000lm 822 HP HE EXC3 OTD	1,500 mA	23.6 V	24.5 V	26.0 V	–	–	–	–
RLE 2x4 3000lm 827 HP HE EXC3 OTD	1,500 mA	23.6 V	24.5 V	26.0 V	–	–	–	–
RLE 2x4 3000lm 830 HP HE EXC3 OTD	1,500 mA	23.6 V	24.5 V	26.0 V	–	–	–	–
RLE 2x4 3000lm 840 HP HE EXC3 OTD	1,500 mA	23.6 V	24.5 V	26.0 V	–	–	–	–
RLE 2x6 4500lm 722 HP HE EXC3 OTD	1,500 mA	35.3 V	36.8 V	39.0 V	–	–	–	–
RLE 2x6 4500lm 727 HP HE EXC3 OTD	1,500 mA	35.3 V	36.8 V	39.0 V	–	–	–	–
RLE 2x6 4500lm 730 HP HE EXC3 OTD	1,500 mA	35.3 V	36.8 V	39.0 V	–	–	–	–
RLE 2x6 4500lm 740 HP HE EXC3 OTD	1,500 mA	35.3 V	36.8 V	39.0 V	–	–	–	–
RLE 2x8 6000lm 722 HP HE EXC3 OTD	1,500 mA	47.1 V	49.1 V	52.0 V	–	–	–	–
RLE 2x8 6000lm 727 HP HE EXC3 OTD	1,500 mA	47.1 V	49.1 V	52.0 V	–	–	–	–
RLE 2x8 6000lm 730 HP HE EXC3 OTD	1,500 mA	47.1 V	49.1 V	52.0 V	–	–	–	–
RLE 2x8 6000lm 740 HP HE EXC3 OTD	1,500 mA	47.1 V	49.1 V	52.0 V	–	–	–	–
RLE 2x8 6000lm 765 HP HE EXC3 OTD	1,500 mA	47.1 V	49.1 V	52.0 V	–	–	–	–
RLE 2x8 6000lm 822 HP HE EXC3 OTD	1,500 mA	47.1 V	49.1 V	52.0 V	–	–	–	–
RLE 2x8 6000lm 827 HP HE EXC3 OTD	1,500 mA	47.1 V	49.1 V	52.0 V	–	–	–	–
RLE 2x8 6000lm 830 HP HE EXC3 OTD	1,500 mA	47.1 V	49.1 V	52.0 V	–	–	–	–
RLE 2x8 6000lm 840 HP HE EXC3 OTD	1,500 mA	47.1 V	49.1 V	52.0 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 with lens ^①	Electrical strength	t _a	t _p rated	t _c
RLE 2x4 3000lm 722 HP HE EXC3 OTD	700 mA	1,800 mA	2,000 mA	2,500 mA / 10ms	670 V	2.34 kV	-40 ... +80 °C	75 °C	95 °C
RLE 2x4 3000lm 727 HP HE EXC3 OTD	700 mA	1,800 mA	2,000 mA	2,500 mA / 10ms	670 V	2.34 kV	-40 ... +80 °C	75 °C	95 °C
RLE 2x4 3000lm 730 HP HE EXC3 OTD	700 mA	1,800 mA	2,000 mA	2,500 mA / 10ms	670 V	2.34 kV	-40 ... +80 °C	75 °C	95 °C
RLE 2x4 3000lm 740 HP HE EXC3 OTD	700 mA	1,800 mA	2,000 mA	2,500 mA / 10ms	670 V	2.34 kV	-40 ... +80 °C	75 °C	95 °C
RLE 2x4 3000lm 765 HP HE EXC3 OTD	700 mA	1,800 mA	2,000 mA	2,500 mA / 10ms	670 V	2.34 kV	-40 ... +80 °C	75 °C	95 °C
RLE 2x4 3000lm 822 HP HE EXC3 OTD	700 mA	1,800 mA	2,000 mA	2,500 mA / 10ms	670 V	2.34 kV	-40 ... +80 °C	75 °C	95 °C
RLE 2x4 3000lm 827 HP HE EXC3 OTD	700 mA	1,800 mA	2,000 mA	2,500 mA / 10ms	670 V	2.34 kV	-40 ... +80 °C	75 °C	95 °C
RLE 2x4 3000lm 830 HP HE EXC3 OTD	700 mA	1,800 mA	2,000 mA	2,500 mA / 10ms	670 V	2.34 kV	-40 ... +80 °C	75 °C	95 °C
RLE 2x4 3000lm 840 HP HE EXC3 OTD	700 mA	1,800 mA	2,000 mA	2,500 mA / 10ms	670 V	2.34 kV	-40 ... +80 °C	75 °C	95 °C
RLE 2x6 4500lm 722 HP HE EXC3 OTD	700 mA	1,800 mA	2,000 mA	2,500 mA / 10ms	670 V	2.34 kV	-40 ... +80 °C	75 °C	95 °C
RLE 2x6 4500lm 727 HP HE EXC3 OTD	700 mA	1,800 mA	2,000 mA	2,500 mA / 10ms	670 V	2.34 kV	-40 ... +80 °C	75 °C	95 °C
RLE 2x6 4500lm 730 HP HE EXC3 OTD	700 mA	1,800 mA	2,000 mA	2,500 mA / 10ms	670 V	2.34 kV	-40 ... +80 °C	75 °C	95 °C
RLE 2x6 4500lm 740 HP HE EXC3 OTD	700 mA	1,800 mA	2,000 mA	2,500 mA / 10ms	670 V	2.34 kV	-40 ... +80 °C	75 °C	95 °C
RLE 2x8 6000lm 722 HP HE EXC3 OTD	700 mA	1,800 mA	2,000 mA	2,500 mA / 10ms	670 V	2.34 kV	-40 ... +80 °C	75 °C	95 °C
RLE 2x8 6000lm 727 HP HE EXC3 OTD	700 mA	1,800 mA	2,000 mA	2,500 mA / 10ms	670 V	2.34 kV	-40 ... +80 °C	75 °C	95 °C
RLE 2x8 6000lm 730 HP HE EXC3 OTD	700 mA	1,800 mA	2,000 mA	2,500 mA / 10ms	670 V	2.34 kV	-40 ... +80 °C	75 °C	95 °C
RLE 2x8 6000lm 740 HP HE EXC3 OTD	700 mA	1,800 mA	2,000 mA	2,500 mA / 10ms	670 V	2.34 kV	-40 ... +80 °C	75 °C	95 °C
RLE 2x8 6000lm 765 HP HE EXC3 OTD	700 mA	1,800 mA	2,000 mA	2,500 mA / 10ms	670 V	2.34 kV	-40 ... +80 °C	75 °C	95 °C
RLE 2x8 6000lm 822 HP HE EXC3 OTD	700 mA	1,800 mA	2,000 mA	2,500 mA / 10ms	670 V	2.34 kV	-40 ... +80 °C	75 °C	95 °C
RLE 2x8 6000lm 827 HP HE EXC3 OTD	700 mA	1,800 mA	2,000 mA	2,500 mA / 10ms	670 V	2.34 kV	-40 ... +80 °C	75 °C	95 °C
RLE 2x8 6000lm 830 HP HE EXC3 OTD	700 mA	1,800 mA	2,000 mA	2,500 mA / 10ms	670 V	2.34 kV	-40 ... +80 °C	75 °C	95 °C
RLE 2x8 6000lm 840 HP HE EXC3 OTD	700 mA	1,800 mA	2,000 mA	2,500 mA / 10ms	670 V	2.34 kV	-40 ... +80 °C	75 °C	95 °C

^① Lens shape like LEDIL Strada 2x2.

1. Standards

EC 62031
IEC 62778
IEC 62471
IEC 61000-4-2
IEC 60068-2-52
UL 8750 (for dry and damp locations)
GR-1217-CORE

1.1 Photometric code

Key for photometric code, e. g. 830 / 579

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)
7	70 – 79			Code
8	80 – 89			Luminous flux
9	≥90			7 ≥ 70 %
				8 ≥ 80 %
				9 ≥ 90 %

1.2 Risk group

Type	Risk group (IEC 62471)
RLE HP HE EXC3 OTD at I ≤ 663 mA	RG1
RLE HP HE EXC3 OTD at Imax	RG2 (Eth _r = 1050 lx, RG1 at d ≥ 57 cm)

1.3 Energy classification

Type	Colour temperature	Forward current	Energy classification	Energy consumption
RLE 2x4 3000lm				
RLE 2x4 3000lm 722 HP HE EXC3 OTD	2,200 K	700 mA	C	17 kWh / 1,000 h
RLE 2x4 3000lm 727 HP HE EXC3 OTD	2,700 K	700 mA	C	17 kWh / 1,000 h
RLE 2x4 3000lm 730 HP HE EXC3 OTD	3,000 K	700 mA	C	17 kWh / 1,000 h
RLE 2x4 3000lm 740 HP HE EXC3 OTD	4,000 K	700 mA	B	17 kWh / 1,000 h
RLE 2x4 3000lm 765 HP HE EXC3 OTD	6,500 K	700 mA	C	17 kWh / 1,000 h
RLE 2x4 3000lm 822 HP HE EXC3 OTD	2,200 K	700 mA	D	17 kWh / 1,000 h
RLE 2x4 3000lm 827 HP HE EXC3 OTD	2,700 K	700 mA	D	17 kWh / 1,000 h
RLE 2x4 3000lm 830 HP HE EXC3 OTD	3,000 K	700 mA	C	17 kWh / 1,000 h
RLE 2x4 3000lm 840 HP HE EXC3 OTD	4,000 K	700 mA	C	17 kWh / 1,000 h
RLE 2x6 4500lm				
RLE 2x6 4500lm 722 HP HE EXC3 OTD	2,200 K	700 mA	C	25 kWh / 1,000 h
RLE 2x6 4500lm 727 HP HE EXC3 OTD	2,700 K	700 mA	C	25 kWh / 1,000 h
RLE 2x6 4500lm 730 HP HE EXC3 OTD	3,000 K	700 mA	C	25 kWh / 1,000 h
RLE 2x6 4500lm 740 HP HE EXC3 OTD	4,000 K	700 mA	B	25 kWh / 1,000 h
RLE 2x8 6000lm				
RLE 2x8 6000lm 722 HP HE EXC3 OTD	2,200 K	700 mA	C	33 kWh / 1,000 h
RLE 2x8 6000lm 727 HP HE EXC3 OTD	2,700 K	700 mA	C	33 kWh / 1,000 h
RLE 2x8 6000lm 730 HP HE EXC3 OTD	3,000 K	700 mA	C	33 kWh / 1,000 h
RLE 2x8 6000lm 740 HP HE EXC3 OTD	4,000 K	700 mA	B	33 kWh / 1,000 h
RLE 2x8 6000lm 765 HP HE EXC3 OTD	6,500 K	700 mA	B	33 kWh / 1,000 h
RLE 2x8 6000lm 822 HP HE EXC3 OTD	2,200 K	700 mA	D	33 kWh / 1,000 h
RLE 2x8 6000lm 827 HP HE EXC3 OTD	2,700 K	700 mA	D	33 kWh / 1,000 h
RLE 2x8 6000lm 830 HP HE EXC3 OTD	3,000 K	700 mA	C	33 kWh / 1,000 h
RLE 2x8 6000lm 840 HP HE EXC3 OTD	4,000 K	700 mA	C	33 kWh / 1,000 h

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://eprel.ec.europa.eu/>

2. Thermal details

2.1 tc point, ambient temperature and lifetime

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

For RLE a tp temperature of 75 °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 tc 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.

2.2 Storage and humidity

Storage temperature	-40 ... +80 °C
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Operation only in non condensing environment.

Humidity during processing of the module should be between 0 to 70 %.

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 RLE will be greatly reduced or the RLE may be destroyed.

2.4 Heat sink values

RLE 2x4 3000lm EXC3 OTD

ta	tp	Forward current	R _{th, hs-a}	Cooling area
25 °C	75 °C	400 mA	11.88 K/W	self cooling
25 °C	75 °C	700 mA	5.99 K/W	111 cm ²
25 °C	75 °C	1,500 mA	2.22 K/W	301 cm ²
35 °C	75 °C	400 mA	9.50 K/W	70 cm ²
35 °C	75 °C	700 mA	4.79 K/W	139 cm ²
35 °C	75 °C	1,500 mA	1.77 K/W	377 cm ²
40 °C	75 °C	400 mA	8.31 K/W	80 cm ²
40 °C	75 °C	700 mA	4.19 K/W	159 cm ²
40 °C	75 °C	1,500 mA	1.55 K/W	431 cm ²
45 °C	75 °C	400 mA	7.12 K/W	94 cm ²
45 °C	75 °C	700 mA	3.59 K/W	186 cm ²
45 °C	75 °C	1,500 mA	1.32 K/W	503 cm ²
50 °C	75 °C	400 mA	5.94 K/W	112 cm ²
50 °C	75 °C	700 mA	2.99 K/W	223 cm ²
50 °C	75 °C	1,500 mA	1.10 K/W	605 cm ²
55 °C	75 °C	400 mA	4.75 K/W	140 cm ²
55 °C	75 °C	700 mA	2.39 K/W	279 cm ²
55 °C	75 °C	1,500 mA	0.88 K/W	758 cm ²
60 °C	75 °C	400 mA	3.56 K/W	187 cm ²
60 °C	75 °C	700 mA	1.79 K/W	372 cm ²
60 °C	75 °C	1,500 mA	0.66 K/W	1,015 cm ²

RLE 2x6 4500lm EXC3 OTD

ta	tp	Forward current	R _{th, hs-a}	Cooling area
25 °C	75 °C	400 mA	7.79 K/W	86 cm²
25 °C	75 °C	700 mA	4.00 K/W	167 cm²
25 °C	75 °C	1,500 mA	1.48 K/W	451 cm²
35 °C	75 °C	400 mA	6.23 K/W	107 cm²
35 °C	75 °C	700 mA	3.20 K/W	208 cm²
35 °C	75 °C	1,500 mA	1.18 K/W	564 cm²
40 °C	75 °C	400 mA	5.45 K/W	122 cm²
40 °C	75 °C	700 mA	2.80 K/W	238 cm²
40 °C	75 °C	1,500 mA	1.03 K/W	645 cm²
45 °C	75 °C	400 mA	4.67 K/W	143 cm²
45 °C	75 °C	700 mA	2.40 K/W	278 cm²
45 °C	75 °C	1,500 mA	0.88 K/W	754 cm²
50 °C	75 °C	400 mA	3.89 K/W	171 cm²
50 °C	75 °C	700 mA	2.00 K/W	334 cm²
50 °C	75 °C	1,500 mA	0.74 K/W	906 cm²
55 °C	75 °C	400 mA	3.11 K/W	214 cm²
55 °C	75 °C	700 mA	1.60 K/W	418 cm²
55 °C	75 °C	1,500 mA	0.59 K/W	1,136 cm²
60 °C	75 °C	400 mA	2.33 K/W	286 cm²
60 °C	75 °C	700 mA	1.19 K/W	558 cm²
60 °C	75 °C	1,500 mA	0.44 K/W	1,521 cm²

RLE 2x8 6000lm EXC3 OTD

ta	tp	Forward current	R _{th, hs-a}	Cooling area
25 °C	75 °C	400 mA	5.87 K/W	114 cm²
25 °C	75 °C	700 mA	3.11 K/W	214 cm²
25 °C	75 °C	1,500 mA	1.11 K/W	602 cm²
35 °C	75 °C	400 mA	4.69 K/W	142 cm²
35 °C	75 °C	700 mA	2.49 K/W	268 cm²
35 °C	75 °C	1,500 mA	0.88 K/W	754 cm²
40 °C	75 °C	400 mA	4.10 K/W	162 cm²
40 °C	75 °C	700 mA	2.17 K/W	307 cm²
40 °C	75 °C	1,500 mA	0.77 K/W	862 cm²
45 °C	75 °C	400 mA	3.52 K/W	190 cm²
45 °C	75 °C	700 mA	1.86 K/W	358 cm²
45 °C	75 °C	1,500 mA	0.66 K/W	1,007 cm²
50 °C	75 °C	400 mA	2.93 K/W	228 cm²
50 °C	75 °C	700 mA	1.55 K/W	430 cm²
50 °C	75 °C	1,500 mA	0.55 K/W	1,211 cm²
55 °C	75 °C	400 mA	2.34 K/W	285 cm²
55 °C	75 °C	700 mA	1.24 K/W	538 cm²
55 °C	75 °C	1,500 mA	0.44 K/W	1,518 cm²
60 °C	75 °C	400 mA	1.76 K/W	380 cm²
60 °C	75 °C	700 mA	0.93 K/W	718 cm²
60 °C	75 °C	1,500 mA	0.33 K/W	2,033 cm²

Notes

The actual cooling surface can differ because of the material, the structural shape, outside influences and the installation situation. Depending on the heat sink a heat conducting paste or heat conducting film might be necessary to keep the specified tp temperature.

3. Installation / wiring

3.1 Electrical supply/choice of LED driver

RLE modules 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 driver from Tridonic in combination with RLE modules 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



RLE modules 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.

The max. permissible output current of the LED driver for parallel wiring is 1.8 A.

If RLE modules are wired in parallel and a wire breaks or a complete module fails then the current passing through the other module increases. This may reduce its life considerably. In addition there can be slight differences in light output caused by tolerances.

RLE modules can be operated either from SELV LED drivers or from LED drivers with LV output voltage.



RLE modules are basic insulated up to 670 V if mounted with M3 screws and lens (e.g. LEDiL Strada 2x2) 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 670 V, 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.

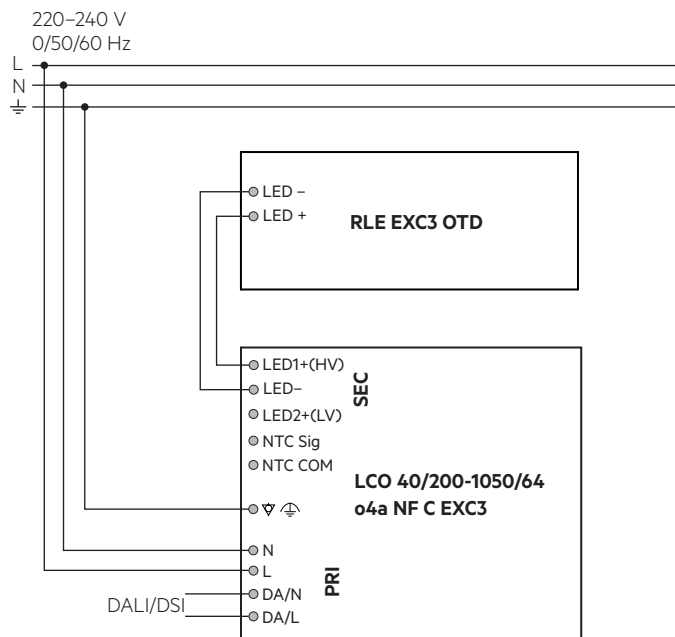
3.2 Integrated protection

The basic protection level consists of protection against reverse polarity and an NTC for overtemperature protection of the module.

3.3 Wiring

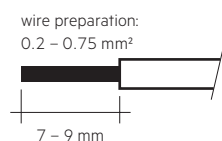


3.4 Wiring examples



3.5 Wiring type and cross section

For wiring use stranded wire with ferrules or solid wire from 0.2 to 0.75 mm².
For the push-wire connection you have to strip the insulation (7–9 mm).



Inserting stranded wires / removing wires by lightly pressing on the push button.

3.6 Mounting instruction



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

Max. torque for fixing: 0.5 Nm.

The LED modules are mounted onto a heat sink with M3 screws per module.



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.

3.7 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. Please note the requirements set out in the document EOS / ESD guidelines (Guideline_EOS_ESD.pdf) at: <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.

4.2 Lumen maintenance

Typ. forward current	tp temperature	L90 / B10	L90 / B50	L80 / B10	L80 / B50	L70 / B10	L70 / B50
400 mA	45 °C	>100k h	>100k h	>100k h	>100k h	>100k h	>100k h
	55 °C	>100k h	>100k h	>100k h	>100k h	>100k h	>100k h
	65 °C	>100k h	>100k h	>100k h	>100k h	>100k h	>100k h
	75 °C	>100k h	>100k h	>100k h	>100k h	>100k h	>100k h
700 mA	45 °C	>100k h	>100k h	>100k h	>100k h	>100k h	>100k h
	55 °C	>100k h	>100k h	>100k h	>100k h	>100k h	>100k h
	65 °C	>100k h	>100k h	>100k h	>100k h	>100k h	>100k h
	75 °C	>100k h	>100k h	>100k h	>100k h	>100k h	>100k h
1,500 mA	45 °C	>100k h	>100k h	>100k h	>100k h	>100k h	>100k h
	55 °C	>100k h	>100k h	>100k h	>100k h	>100k h	>100k h
	65 °C	>100k h	>100k h	>100k h	>100k h	>100k h	>100k h
	75 °C	>100k h	>100k h	>100k h	>100k h	>100k h	>100k h

LOC10 >100k h. At tp rated and Irated, based on 10 switching cycles per day.

4.3 Switching capability

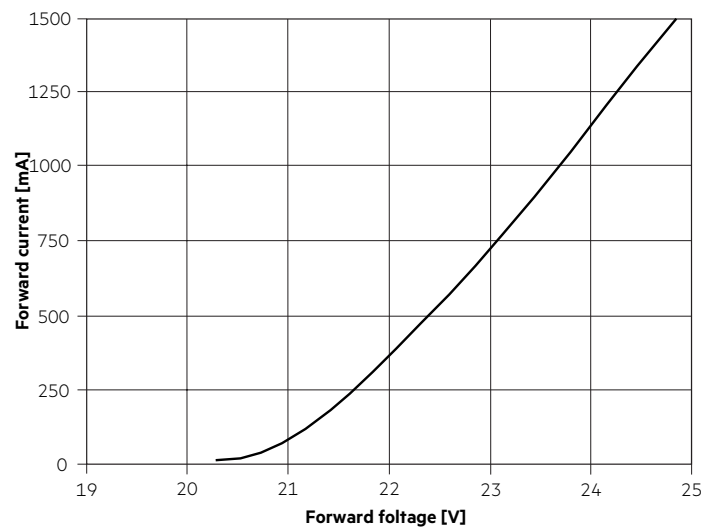
100,000 cycles

Tridonic test according to IEC 62717 Cl 10.3.3
30 s on / 30 s off at a forward current of 700 mA

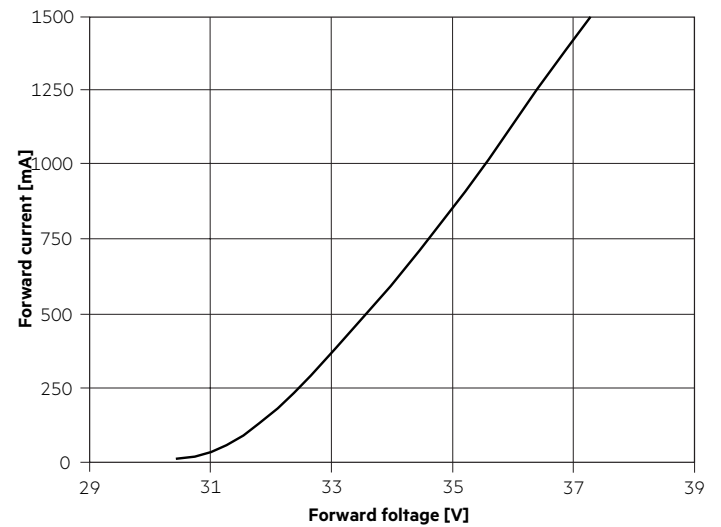
5. Electrical values

5.1 Typ. forward voltage vs. forward current

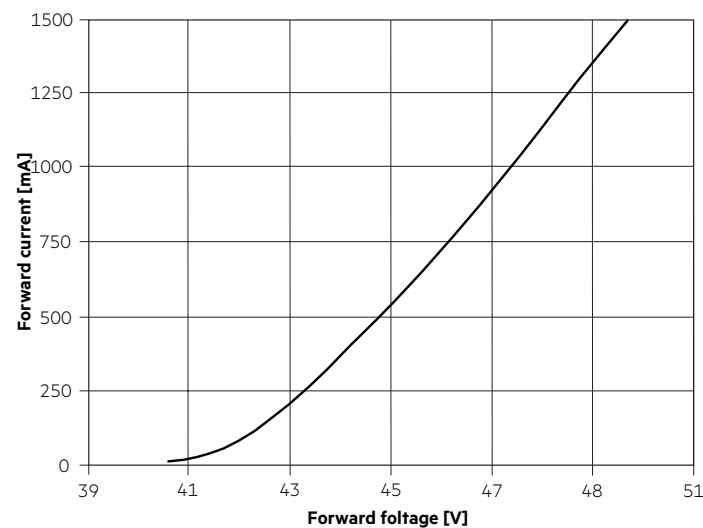
RLE 2x4 3000lm xxx HP EXC3 OTD



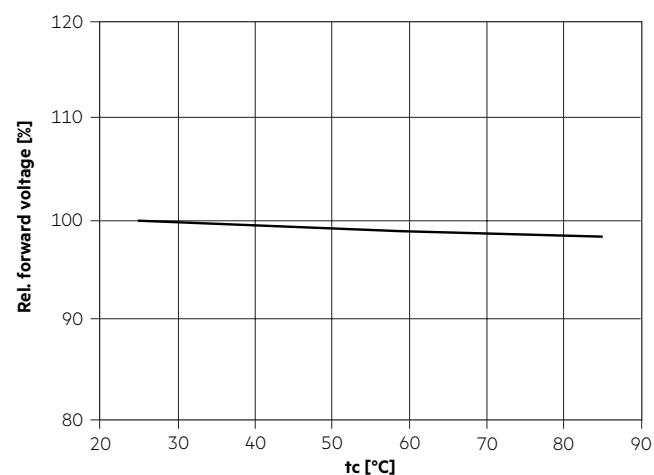
RLE 2x6 4500lm xxx HP EXC3 OTD



RLE 2x8 6000lm xxx HP EXC3 OTD



5.2 Forward voltage vs. tc temperature



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

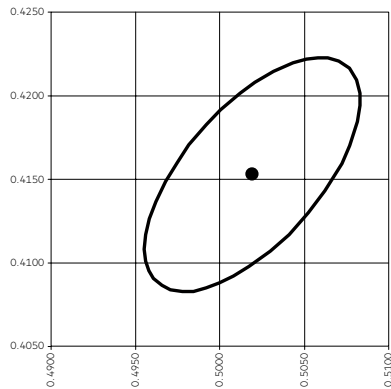
6. Photometric characteristics

6.1 Coordinates and tolerances according to CIE 1931

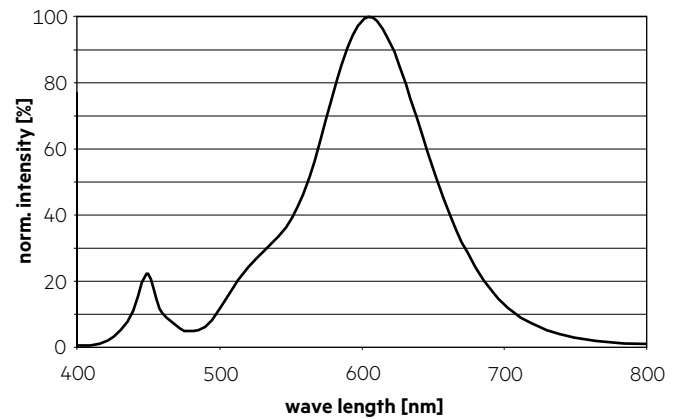
The specified colour coordinates are integral measured by current impulse of 1,280 mA and a duration of < 2 s.
The ambient temperature of the measurement is 25 °C.
The measurement tolerance of the colour coordinates are ± 0.01 .

2,200 K, CRI 70

	x0	y0
Centre	0.5019	0.4153

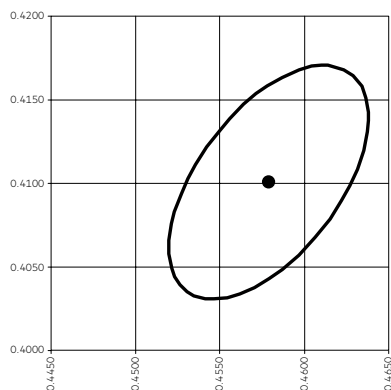


— MacAdam Ellipse: 3SDCM

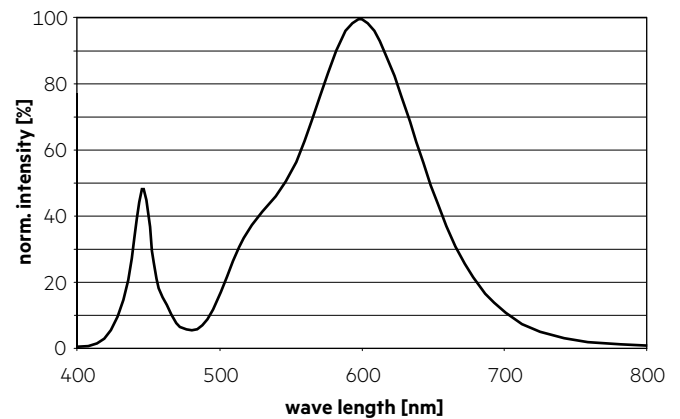


2,700 K, CRI 70

	x0	y0
Centre	0.4578	0.4101

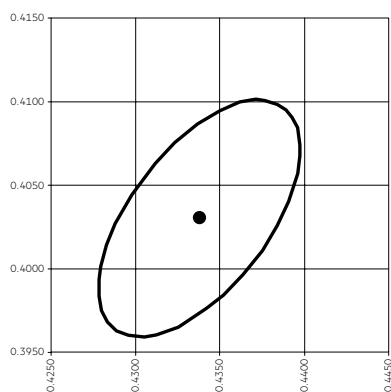


— MacAdam Ellipse: 3SDCM

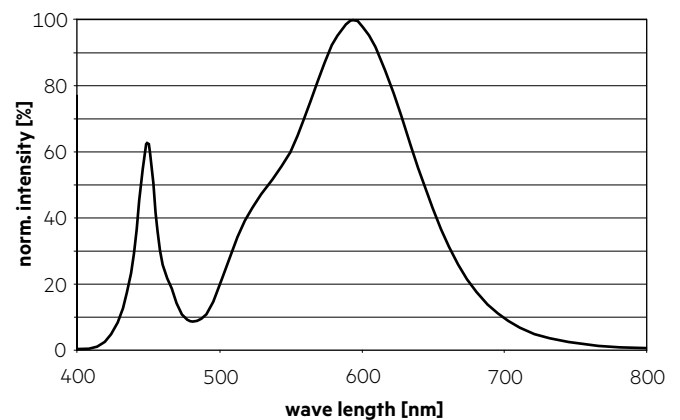


3,000 K, CRI 70

	x0	y0
Centre	0.4338	0.4030

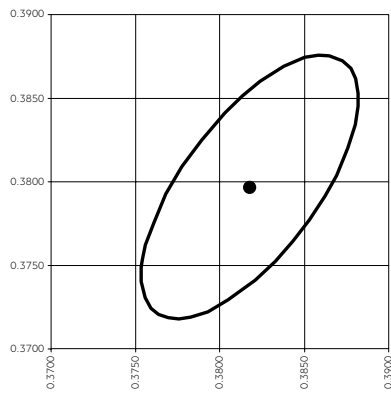


— MacAdam Ellipse: 3SDCM

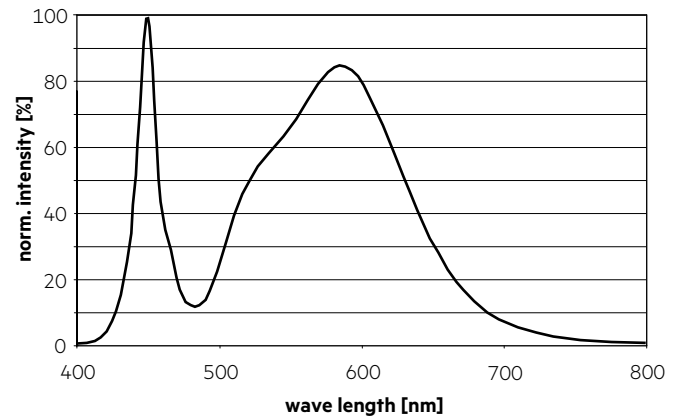


4,000 K, CRI 70

	x0	y0
Centre	0.3818	0.3797

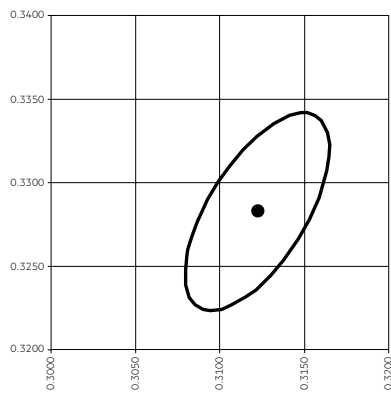


— MacAdam Ellipse: 3SDCM

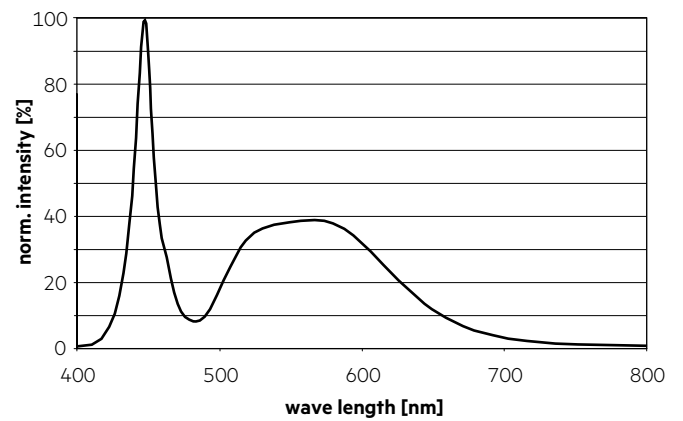


6,500 K, CRI 70

	x0	y0
Centre	0.3123	0.3282

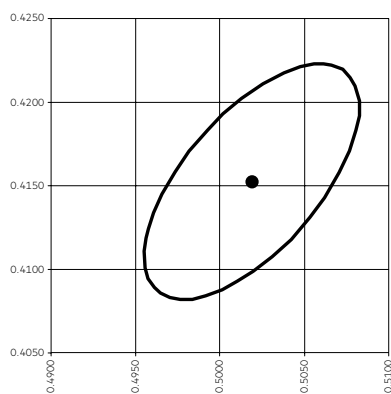


— MacAdam Ellipse: 3SDCM

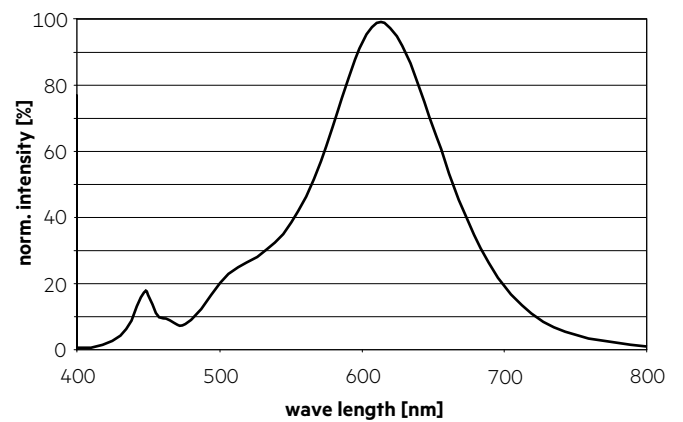


2,200 K, CRI 80

	x0	y0
Centre	0.5019	0.4153

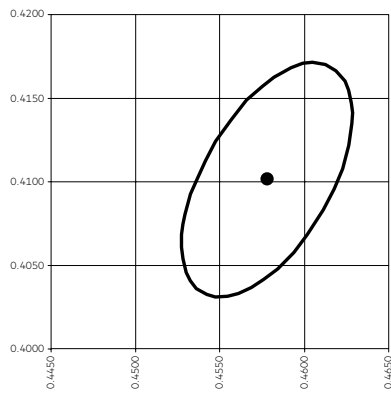


— MacAdam Ellipse: 3SDCM

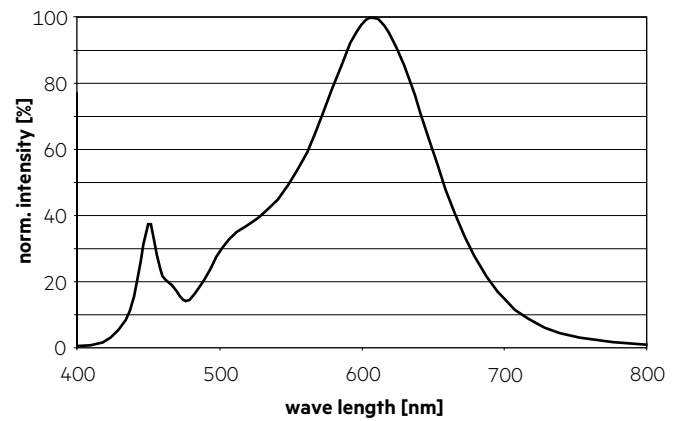


2,700 K, CRI 80

	x0	y0
Centre	0.4578	0.4101

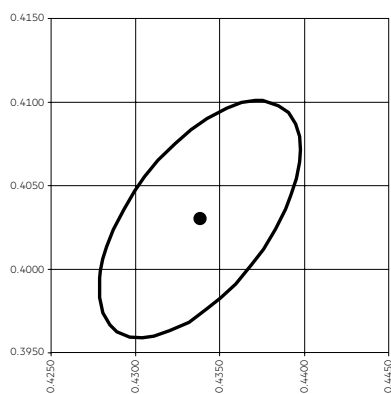


— MacAdam Ellipse: 3SDCM

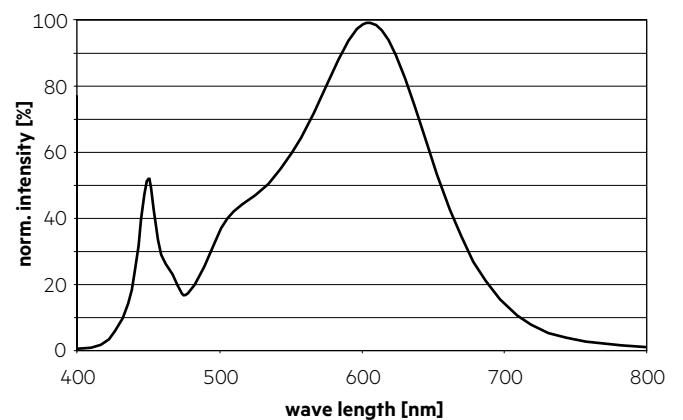


3,000 K, CRI 80

	x0	y0
Centre	0.4338	0.4030

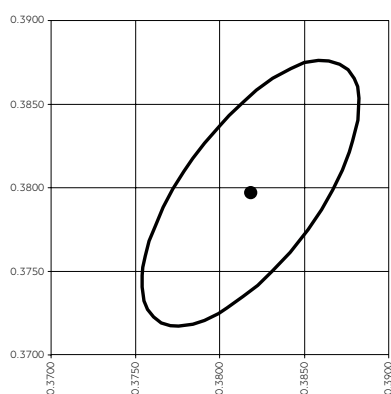


— MacAdam Ellipse: 3SDCM

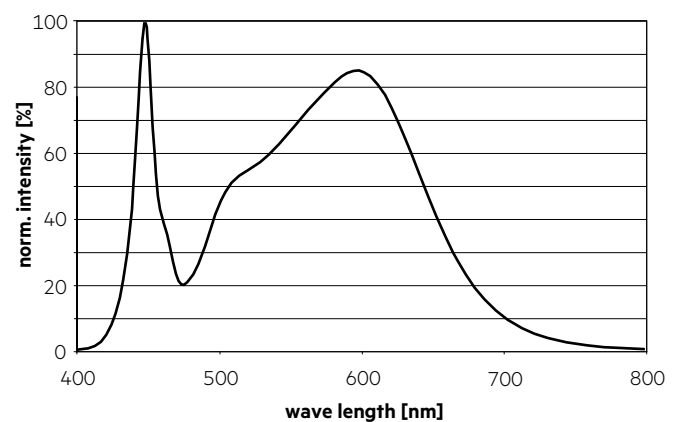


4,000 K, CRI 80

	x0	y0
Centre	0.3818	0.3797

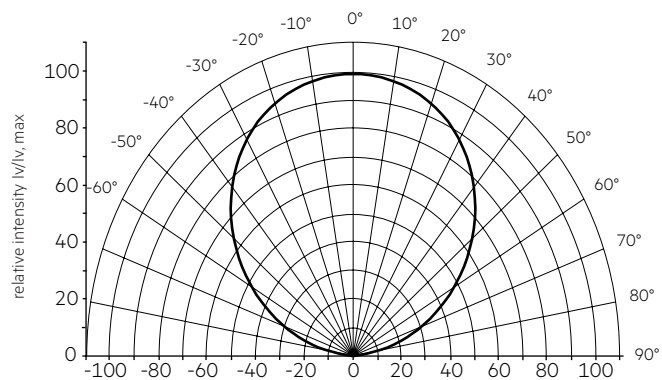


— MacAdam Ellipse: 3SDCM



6.2 Light distribution

RLE modules are designed to be compatible with 50 x 50 mm lens arrays with 25.4 mm pitch distance. This allows multiple light distributions.



The colour temperature is measured integral over the complete module. The single LED light points can have deviations in the colour coordinates within MacAdam 4.

7. Miscellaneous

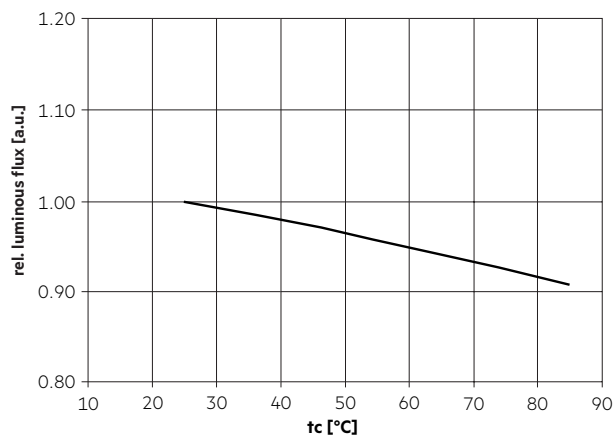
7.1 Additional information

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

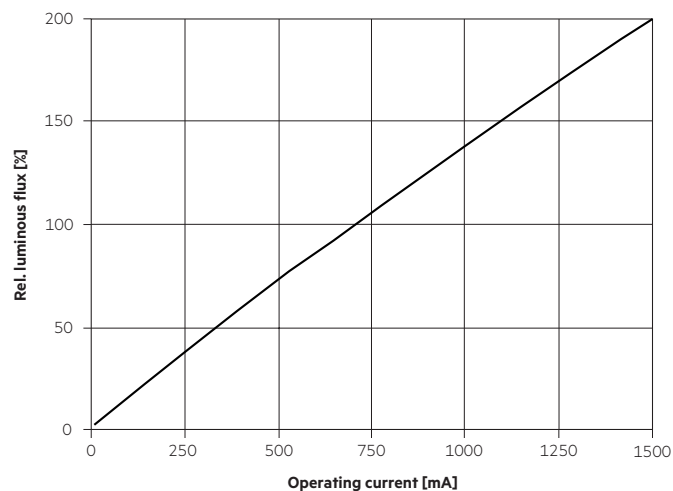
Guarantee conditions at www.tridonic.com → Services

Lifetime declarations are informative and represent no warranty claim.

6.3 Relative luminous flux vs. tc temperature



6.4 Relative luminous flux vs. operating current



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