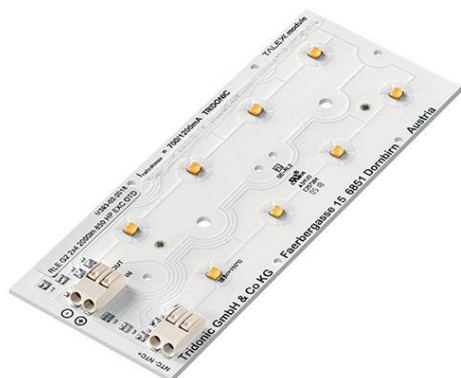


Module RLE 2x4 / 2x6 / 2x8 EXC2 OTD new variant

Modules RLE excite



RLE 2x4 2000lm HP EXC2 OTD



RLE 2x6 3000lm HP EXC2 OTD



RLE 2x8 4000lm HP EXC2 OTD

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 ... +105 °C
- _ Surge tested (+/- to earth) 6 kV with Tridonic LED driver
- _ Integrated NTC for overtemperature protection
- _ Zhaga Book 15 certified
- _ For use with standard 2x2 lenses (e.g. LEDiL STRADA 2x2)
- _ Push-in terminals for simple and quick wiring
- _ HE ... High Efficiency, NM ... Nominal Mode, HO ... High Output
- _ Long lifetime up to 150,000 hours
- _ 8 years guarantee (conditions at

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

Optical properties

- _ Colour temperatures 2,200 K, 2,700 K, 3,000 K, 3,500 K, 4,000 K, 5,000 K, 5,700 K and 6,500 K
- _ Efficacy of the LED module up to 204 lm/W
- _ Two colour rendering index to fit the application: CRI > 70 high efficiency, CRI > 80 for high colour rendering
- _ Small luminous flux tolerances

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

System solution

- _ Integrate compatible partner products into your final system solution:

<https://www.tridonic.com/en/int/products/accessories#partner>

Website

<http://www.tridonic.com/28006713>



Linear



High bay



Decorative



Downlights



Spotlights



Free-standing



Area



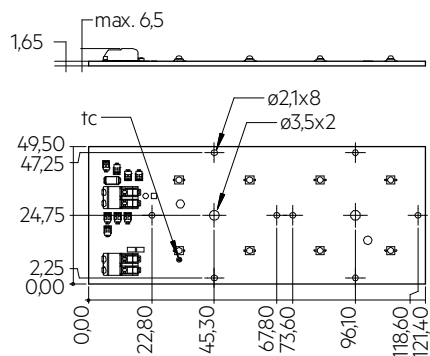
Floor | Wall



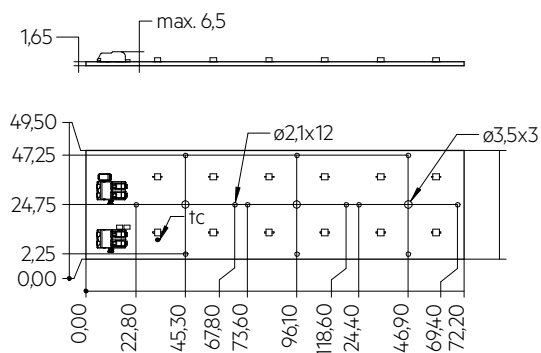
Street

Module RLE 2x4 / 2x6 / 2x8 EXC2 OTD new variant

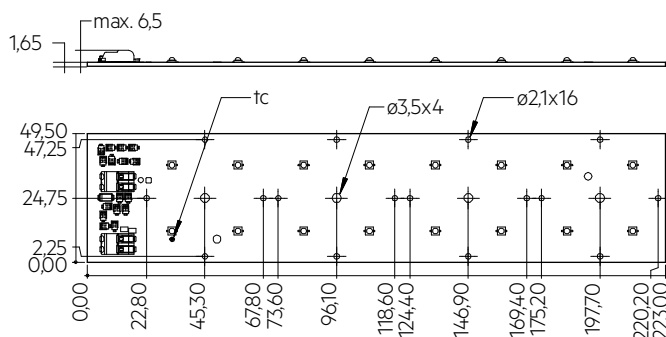
Modules RLE excite



RLE 2x4 2000lm HP EXC2 OTD



RLE 2x6 3000lm HP EXC2 OTD



RLE 2x8 4000lm HP EXC2 OTD

Ordering data

Type	Article number	Colour temperature	Packaging, carton	Weight per pc.
RLE 2x4 2000lm 722 HP EXC2 OTD	28006713	2,200 K	80 pc(s).	0.028 kg
RLE 2x4 2000lm 727 HP EXC2 OTD	28006714	2,700 K	80 pc(s).	0.028 kg
RLE 2x4 2000lm 730 HP EXC2 OTD	28006715	3,000 K	80 pc(s).	0.028 kg
RLE 2x4 2000lm 735 HP EXC2 OTD	28006716	3,500 K	80 pc(s).	0.028 kg
RLE 2x4 2000lm 740 HP EXC2 OTD	28006717	4,000 K	80 pc(s).	0.028 kg
RLE 2x4 2000lm 750 HP EXC2 OTD	28006718	5,000 K	80 pc(s).	0.028 kg
RLE 2x4 2000lm 757 HP EXC2 OTD	28006765	5,700 K	80 pc(s).	0.028 kg
RLE 2x4 2000lm 765 HP EXC2 OTD	28006719	6,500 K	80 pc(s).	0.028 kg
RLE 2x4 2000lm 827 HP EXC2 OTD	28006720	2,700 K	80 pc(s).	0.028 kg
RLE 2x4 2000lm 830 HP EXC2 OTD	28006721	3,000 K	80 pc(s).	0.028 kg
RLE 2x4 2000lm 835 HP EXC2 OTD	28006722	3,500 K	80 pc(s).	0.028 kg
RLE 2x4 2000lm 840 HP EXC2 OTD	28006723	4,000 K	80 pc(s).	0.028 kg
RLE 2x4 2000lm 850 HP EXC2 OTD	28006724	5,000 K	80 pc(s).	0.028 kg
RLE 2x6 3000lm 722 HP EXC2 OTD	28006725	2,200 K	80 pc(s).	0.038 kg
RLE 2x6 3000lm 727 HP EXC2 OTD	28006726	2,700 K	80 pc(s).	0.038 kg
RLE 2x6 3000lm 730 HP EXC2 OTD	28006727	3,000 K	80 pc(s).	0.038 kg
RLE 2x6 3000lm 735 HP EXC2 OTD	28006728	3,500 K	80 pc(s).	0.038 kg
RLE 2x6 3000lm 740 HP EXC2 OTD	28006729	4,000 K	80 pc(s).	0.038 kg
RLE 2x6 3000lm 750 HP EXC2 OTD	28006730	5,000 K	80 pc(s).	0.038 kg
RLE 2x6 3000lm 757 HP EXC2 OTD	28006766	5,700 K	80 pc(s).	0.038 kg
RLE 2x6 3000lm 765 HP EXC2 OTD	28006731	6,500 K	80 pc(s).	0.038 kg
RLE 2x6 3000lm 827 HP EXC2 OTD	28006763	2,700 K	80 pc(s).	0.038 kg
RLE 2x6 3000lm 830 HP EXC2 OTD	28006732	3,000 K	80 pc(s).	0.038 kg
RLE 2x6 3000lm 835 HP EXC2 OTD	28006733	3,500 K	80 pc(s).	0.038 kg
RLE 2x6 3000lm 840 HP EXC2 OTD	28006734	4,000 K	80 pc(s).	0.038 kg
RLE 2x6 3000lm 850 HP EXC2 OTD	28006735	5,000 K	80 pc(s).	0.038 kg
RLE 2x8 4000lm 722 HP EXC2 OTD	28006736	2,200 K	80 pc(s).	0.049 kg
RLE 2x8 4000lm 727 HP EXC2 OTD	28006737	2,700 K	80 pc(s).	0.049 kg
RLE 2x8 4000lm 730 HP EXC2 OTD	28006738	3,000 K	80 pc(s).	0.049 kg
RLE 2x8 4000lm 735 HP EXC2 OTD	28006739	3,500 K	80 pc(s).	0.049 kg
RLE 2x8 4000lm 740 HP EXC2 OTD	28006740	4,000 K	80 pc(s).	0.049 kg
RLE 2x8 4000lm 750 HP EXC2 OTD	28006741	5,000 K	80 pc(s).	0.049 kg
RLE 2x8 4000lm 757 HP EXC2 OTD	28006767	5,700 K	80 pc(s).	0.049 kg
RLE 2x8 4000lm 765 HP EXC2 OTD	28006742	6,500 K	80 pc(s).	0.049 kg
RLE 2x8 4000lm 827 HP EXC2 OTD	28006743	2,700 K	80 pc(s).	0.049 kg
RLE 2x8 4000lm 830 HP EXC2 OTD	28006744	3,000 K	80 pc(s).	0.049 kg
RLE 2x8 4000lm 835 HP EXC2 OTD	28006745	3,500 K	80 pc(s).	0.049 kg
RLE 2x8 4000lm 840 HP EXC2 OTD	28006746	4,000 K	80 pc(s).	0.049 kg
RLE 2x8 4000lm 850 HP EXC2 OTD	28006747	5,000 K	80 pc(s).	0.049 kg

Technical data

Beam characteristic	120°
Ambient temperature ta	-40 ... +80 °C
tp rated	75 °C
tc	105 °C
Irated for Ra >70	550 mA
Irated for Ra >80	650 mA
Imax	1,200 mA
Max. permissible LF current ripple	1,320 mA
Max. permissible peak current	2,000 mA / max. 10 ms
Max. working voltage for insulation ^①	370 V
Max. working voltage for insulation with lens	670 V
Insulation test voltage	2.34 kV
Colour tolerance	5 SDCM
ESD classification	Severity level 4
Risk group (IEC 62471) for Ra >70	RG2 (Ethr ≤ 734 lx, RG1 at d ≥ 270 cm)
Risk group (IEC 62471) for Ra >80	RG2 (Ethr ≤ 1076 lx, RG1 at d ≥ 190 cm)
Classification acc. to IEC 62031	Built-in
Type of protection	IP00
Lumen maintenance L70B50	150,000 h
Guarantee (conditions at www.tridonic.com)	8 Year(s)

Approval marks



Standards

IEC 62031, IEC 62778, IEC 62471, IEC 61000-4-2, IEC 60068-2-52, UL 8750

Specific technical data

Type	Article number	Photometric code	Useful luminous flux at tp = 25 °C	Expected luminous flux at tp rated	Typ. forward current	Min. forward voltage at tp rated	Max. forward voltage at tp = 25 °C	Power consumption Pon at tp = 25 °C	Efficacy of the module at tp = 25 °C	Expected efficacy of the module at tp rated	Colour rendering index CRI
RLE 2x4 2000lm EXC2 OTD – Operating mode HE											
RLE 2x4 2000lm 722 HP EXC2 OTD	28006713	722/359	–	1,440 lm	400 mA	21.0 V	23.1 V	–	–	165 lm/W	>70
RLE 2x4 2000lm 727 HP EXC2 OTD	28006714	727/359	–	1,584 lm	400 mA	21.0 V	23.1 V	–	–	182 lm/W	>70
RLE 2x4 2000lm 730 HP EXC2 OTD	28006715	730/359	–	1,728 lm	400 mA	21.0 V	23.1 V	–	–	198 lm/W	>70
RLE 2x4 2000lm 735 HP EXC2 OTD	28006716	735/359	–	1,680 lm	400 mA	21.0 V	23.1 V	–	–	193 lm/W	>70
RLE 2x4 2000lm 740 HP EXC2 OTD	28006717	740/359	–	1,824 lm	400 mA	21.0 V	23.1 V	–	–	209 lm/W	>70
RLE 2x4 2000lm 750 HP EXC2 OTD	28006718	750/359	–	1,776 lm	400 mA	21.0 V	23.1 V	–	–	204 lm/W	>70
RLE 2x4 2000lm 757 HP EXC2 OTD	28006765	757/359	–	1,776 lm	400 mA	21.0 V	23.1 V	–	–	204 lm/W	>70
RLE 2x4 2000lm 765 HP EXC2 OTD	28006719	765/359	–	1,776 lm	400 mA	21.0 V	23.1 V	–	–	204 lm/W	>70
RLE 2x4 2000lm 827 HP EXC2 OTD	28006720	827/359	–	1,787 lm	500 mA	21.3 V	23.5 V	–	–	161 lm/W	>80
RLE 2x4 2000lm 830 HP EXC2 OTD	28006721	830/359	–	1,882 lm	500 mA	21.3 V	23.5 V	–	–	170 lm/W	>80
RLE 2x4 2000lm 835 HP EXC2 OTD	28006722	835/359	–	1,911 lm	500 mA	21.3 V	23.5 V	–	–	173 lm/W	>80
RLE 2x4 2000lm 840 HP EXC2 OTD	28006723	840/359	–	1,982 lm	500 mA	21.3 V	23.5 V	–	–	179 lm/W	>80
RLE 2x4 2000lm 850 HP EXC2 OTD	28006724	850/359	–	1,988 lm	500 mA	21.3 V	23.5 V	–	–	180 lm/W	>80
RLE 2x4 2000lm EXC2 OTD – Operating mode NM											
RLE 2x4 2000lm 722 HP EXC2 OTD	28006713	722/359	1,940 lm	1,929 lm	550 mA	21.3 V	23.4 V	12.4 W	156 lm/W	159 lm/W	>70
RLE 2x4 2000lm 727 HP EXC2 OTD	28006714	727/359	2,210 lm	2,122 lm	550 mA	21.3 V	23.4 V	12.4 W	178 lm/W	175 lm/W	>70
RLE 2x4 2000lm 730 HP EXC2 OTD	28006715	730/359	2,310 lm	2,315 lm	550 mA	21.3 V	23.4 V	12.4 W	186 lm/W	191 lm/W	>70
RLE 2x4 2000lm 735 HP EXC2 OTD	28006716	735/359	2,280 lm	2,251 lm	550 mA	21.3 V	23.4 V	12.4 W	184 lm/W	185 lm/W	>70
RLE 2x4 2000lm 740 HP EXC2 OTD	28006717	740/359	2,550 lm	2,444 lm	550 mA	21.3 V	23.4 V	12.4 W	206 lm/W	201 lm/W	>70
RLE 2x4 2000lm 750 HP EXC2 OTD	28006718	750/359	2,510 lm	2,379 lm	550 mA	21.3 V	23.4 V	12.4 W	202 lm/W	196 lm/W	>70
RLE 2x4 2000lm 757 HP EXC2 OTD	28006765	757/359	2,510 lm	2,379 lm	550 mA	21.3 V	23.4 V	12.4 W	202 lm/W	196 lm/W	>70
RLE 2x4 2000lm 765 HP EXC2 OTD	28006719	765/359	2,510 lm	2,379 lm	550 mA	21.3 V	23.4 V	12.4 W	202 lm/W	196 lm/W	>70
RLE 2x4 2000lm 827 HP EXC2 OTD	28006720	827/359	2,310 lm	2,305 lm	650 mA	21.6 V	23.8 V	15.0 W	154 lm/W	158 lm/W	>80
RLE 2x4 2000lm 830 HP EXC2 OTD	28006721	830/359	2,380 lm	2,428 lm	650 mA	21.6 V	23.8 V	15.0 W	159 lm/W	167 lm/W	>80
RLE 2x4 2000lm 835 HP EXC2 OTD	28006722	835/359	2,400 lm	2,466 lm	650 mA	21.6 V	23.8 V	15.0 W	160 lm/W	169 lm/W	>80
RLE 2x4 2000lm 840 HP EXC2 OTD	28006723	840/359	2,650 lm	2,557 lm	650 mA	21.6 V	23.8 V	15.0 W	177 lm/W	176 lm/W	>80
RLE 2x4 2000lm 850 HP EXC2 OTD	28006724	850/359	2,660 lm	2,565 lm	650 mA	21.6 V	23.8 V	15.0 W	177 lm/W	176 lm/W	>80
RLE 2x4 2000lm EXC2 OTD – Operating mode HO											
RLE 2x4 2000lm 722 HP EXC2 OTD	28006713	722/359	–	3,387 lm	1,050 mA	22.1 V	24.2 V	–	–	141 lm/W	>70
RLE 2x4 2000lm 727 HP EXC2 OTD	28006714	727/359	–	3,725 lm	1,050 mA	22.1 V	24.2 V	–	–	155 lm/W	>70
RLE 2x4 2000lm 730 HP EXC2 OTD	28006715	730/359	–	4,064 lm	1,050 mA	22.1 V	24.2 V	–	–	169 lm/W	>70
RLE 2x4 2000lm 735 HP EXC2 OTD	28006716	735/359	–	3,951 lm	1,050 mA	22.1 V	24.2 V	–	–	164 lm/W	>70
RLE 2x4 2000lm 740 HP EXC2 OTD	28006717	740/359	–	4,290 lm	1,050 mA	22.1 V	24.2 V	–	–	178 lm/W	>70
RLE 2x4 2000lm 750 HP EXC2 OTD	28006718	750/359	–	4,177 lm	1,050 mA	22.1 V	24.2 V	–	–	174 lm/W	>70
RLE 2x4 2000lm 757 HP EXC2 OTD	28006765	757/359	–	4,177 lm	1,050 mA	22.1 V	24.2 V	–	–	174 lm/W	>70
RLE 2x4 2000lm 765 HP EXC2 OTD	28006719	765/359	–	4,177 lm	1,050 mA	22.1 V	24.2 V	–	–	174 lm/W	>70
RLE 2x4 2000lm 827 HP EXC2 OTD	28006720	827/359	–	3,456 lm	1,050 mA	22.3 V	24.5 V	–	–	143 lm/W	>80
RLE 2x4 2000lm 830 HP EXC2 OTD	28006721	830/359	–	3,641 lm	1,050 mA	22.3 V	24.5 V	–	–	150 lm/W	>80
RLE 2x4 2000lm 835 HP EXC2 OTD	28006722	835/359	–	3,698 lm	1,050 mA	22.3 V	24.5 V	–	–	153 lm/W	>80
RLE 2x4 2000lm 840 HP EXC2 OTD	28006723	840/359	–	3,835 lm	1,050 mA	22.3 V	24.5 V	–	–	158 lm/W	>80
RLE 2x4 2000lm 850 HP EXC2 OTD	28006724	850/359	–	3,847 lm	1,050 mA	22.3 V	24.5 V	–	–	159 lm/W	>80
RLE 2x6 3000lm EXC2 OTD – Operating mode HE											
RLE 2x6 3000lm 722 HP EXC2 OTD	28006725	722/359	–	2,160 lm	400 mA	31.5 V	34.6 V	–	–	165 lm/W	>70
RLE 2x6 3000lm 727 HP EXC2 OTD	28006726	727/359	–	2,375 lm	400 mA	31.5 V	34.6 V	–	–	182 lm/W	>70
RLE 2x6 3000lm 730 HP EXC2 OTD	28006727	730/359	–	2,591 lm	400 mA	31.5 V	34.6 V	–	–	198 lm/W	>70
RLE 2x6 3000lm 735 HP EXC2 OTD	28006728	735/359	–	2,519 lm	400 mA	31.5 V	34.6 V	–	–	193 lm/W	>70
RLE 2x6 3000lm 740 HP EXC2 OTD	28006729	740/359	–	2,735 lm	400 mA	31.5 V	34.6 V	–	–	209 lm/W	>70
RLE 2x6 3000lm 750 HP EXC2 OTD	28006730	750/359	–	2,663 lm	400 mA	31.5 V	34.6 V	–	–	204 lm/W	>70
RLE 2x6 3000lm 757 HP EXC2 OTD	28006766	757/359	–	2,663 lm	400 mA	31.5 V	34.6 V	–	–	204 lm/W	>70
RLE 2x6 3000lm 765 HP EXC2 OTD	28006731	765/359	–	2,663 lm	400 mA	31.5 V	34.6 V	–	–	204 lm/W	>70
RLE 2x6 3000lm 827 HP EXC2 OTD	28006763	827/359	–	2,680 lm	500 mA	32.0 V	35.3 V	–	–	161 lm/W	>80
RLE 2x6 3000lm 830 HP EXC2 OTD	28006732	830/359	–	2,823 lm	500 mA	32.0 V	35.3 V	–	–	170 lm/W	>80
RLE 2x6 3000lm 835 HP EXC2 OTD	28006733	835/359	–	2,867 lm	500 mA	32.0 V	35.3 V	–	–	173 lm/W	>80
RLE 2x6 3000lm 840 HP EXC2 OTD	28006734	840/359	–	2,973 lm	500 mA	32.0 V	35.3 V	–	–	179 lm/W	>80
RLE 2x6 3000lm 850 HP EXC2 OTD	28006735	850/359	–	2,982 lm	500 mA	32.0 V	35.3 V	–	–	180 lm/W	>80
RLE 2x6 3000lm EXC2 OTD – Operating mode NM											
RLE 2x6 3000lm 722 HP EXC2 OTD	28006725	722/359	2,910 lm	2,894 lm	550 mA	32.0 V	35.1 V	18.6 W	156 lm/W	159 lm/W	>70
RLE 2x6 3000lm 727 HP EXC2 OTD	28006726	727/359	3,320 lm	3,183 lm	550 mA	32.0 V	35.1 V	18.6 W	178 lm/W	175 lm/W	>70
RLE 2x6 3000lm 730 HP EXC2 OTD	28006727	730/359	3,470 lm	3,472 lm	550 mA	32.0 V	35.1 V	18.6 W	187 lm/W	191 lm/W	>70
RLE 2x6 3000lm 735 HP EXC2 OTD	28006728	735/359	3,420 lm	3,376 lm	550 mA	32.0 V	35.1 V	18.6 W	184 lm/W	185 lm/W	>70
RLE 2x6 3000lm 740 HP EXC2 OTD	28006729	740/359	3,830 lm	3,665 lm	550 mA	32.0 V	35.1 V	18.6 W	206 lm/W	201 lm/W	>70
RLE 2x6 3000lm 750 HP EXC2 OTD	28006730	750/359	3,770 lm	3,569 lm	550 mA	32.0 V	35.1 V	18.6 W	203 lm/W	196 lm/W	>70
RLE 2x6 3000lm 757 HP EXC2 OTD	28006766	757/359	3,770 lm	3,569 lm	550 mA	32.0 V	35.1 V	18.6 W	203 lm/W	196 lm/W	>70
RLE 2x6 3000lm 765 HP EXC2 OTD	28006731	765/359	3,770 lm	3,569 lm	550 mA	32.0 V	35.1 V	18.6 W	203 lm/W	196 lm/W	>70
RLE 2x6 3000lm 827 HP EXC2 OTD	28006763	827/359	3,470 lm	3,458 lm	650 mA	32.4 V	35.7 V	22.5 W	154 lm/W	158 lm/W	>80
RLE 2x6 3000lm 830 HP EXC2 OTD	28006732	830/359	3,750 lm	3,642 lm	650 mA	32.4 V	35.7 V	22.5 W	167 lm/W	167 lm/W	>80
RLE 2x6 3000lm 835 HP EXC2 OTD	28006733	835/359	3,600 lm	3,699 lm	650 mA	32.4 V	35.7 V	22.5 W	160 lm/W	169 lm/W	>80

Type	Article number	Photometric code	Useful luminous flux at $t_p = 25^\circ\text{C}$	Expected luminous flux at t_p rated	Typ. forward current	Min. forward voltage at t_p rated	Max. forward voltage at $t_p = 25^\circ\text{C}$	Power consumption P_{on} at $t_p = 25^\circ\text{C}$	Efficacy of the module at $t_p = 25^\circ\text{C}$	Expected efficacy of the module at t_p rated	Colour rendering index CRI
RLE 2x6 3000lm 840 HP EXC2 OTD	28006734	840/359	3,980 lm	3,836 lm	650 mA	32.4 V	35.7 V	22.5 W	177 lm/W	176 lm/W	>80
RLE 2x6 3000lm 850 HP EXC2 OTD	28006735	850/359	4,000 lm	3,848 lm	650 mA	32.4 V	35.7 V	22.5 W	178 lm/W	176 lm/W	>80
RLE 2x6 3000lm EXC2 OTD – Operating mode HO											
RLE 2x6 3000lm 722 HP EXC2 OTD	28006725	722/359	–	5,080 lm	1,050 mA	33.2 V	36.3 V	–	–	141 lm/W	>70
RLE 2x6 3000lm 727 HP EXC2 OTD	28006726	727/359	–	5,588 lm	1,050 mA	33.2 V	36.3 V	–	–	155 lm/W	>70
RLE 2x6 3000lm 730 HP EXC2 OTD	28006727	730/359	–	6,096 lm	1,050 mA	33.2 V	36.3 V	–	–	169 lm/W	>70
RLE 2x6 3000lm 735 HP EXC2 OTD	28006728	735/359	–	5,927 lm	1,050 mA	33.2 V	36.3 V	–	–	164 lm/W	>70
RLE 2x6 3000lm 740 HP EXC2 OTD	28006729	740/359	–	6,435 lm	1,050 mA	33.2 V	36.3 V	–	–	178 lm/W	>70
RLE 2x6 3000lm 750 HP EXC2 OTD	28006730	750/359	–	6,265 lm	1,050 mA	33.2 V	36.3 V	–	–	174 lm/W	>70
RLE 2x6 3000lm 757 HP EXC2 OTD	28006766	750/359	–	6,265 lm	1,050 mA	33.2 V	36.3 V	–	–	174 lm/W	>70
RLE 2x6 3000lm 765 HP EXC2 OTD	28006731	765/359	–	6,265 lm	1,050 mA	33.2 V	36.3 V	–	–	174 lm/W	>70
RLE 2x6 3000lm 827 HP EXC2 OTD	28006763	827/359	–	5,185 lm	1,050 mA	33.5 V	36.8 V	–	–	143 lm/W	>80
RLE 2x6 3000lm 830 HP EXC2 OTD	28006732	830/359	–	5,461 lm	1,050 mA	33.5 V	36.8 V	–	–	150 lm/W	>80
RLE 2x6 3000lm 835 HP EXC2 OTD	28006733	835/359	–	5,547 lm	1,050 mA	33.5 V	36.8 V	–	–	153 lm/W	>80
RLE 2x6 3000lm 840 HP EXC2 OTD	28006734	840/359	–	5,753 lm	1,050 mA	33.5 V	36.8 V	–	–	158 lm/W	>80
RLE 2x6 3000lm 850 HP EXC2 OTD	28006735	850/359	–	5,770 lm	1,050 mA	33.5 V	36.8 V	–	–	159 lm/W	>80
RLE 2x8 4000lm EXC2 OTD – Operating mode HE											
RLE 2x8 4000lm 722 HP EXC2 OTD	28006736	722/359	–	2,879 lm	400 mA	42.1 V	46.2 V	–	–	165 lm/W	>70
RLE 2x8 4000lm 727 HP EXC2 OTD	28006737	727/359	–	3,167 lm	400 mA	42.1 V	46.2 V	–	–	182 lm/W	>70
RLE 2x8 4000lm 730 HP EXC2 OTD	28006738	730/359	–	3,455 lm	400 mA	42.1 V	46.2 V	–	–	198 lm/W	>70
RLE 2x8 4000lm 735 HP EXC2 OTD	28006739	735/359	–	3,359 lm	400 mA	42.1 V	46.2 V	–	–	193 lm/W	>70
RLE 2x8 4000lm 740 HP EXC2 OTD	28006740	740/359	–	3,647 lm	400 mA	42.1 V	46.2 V	–	–	209 lm/W	>70
RLE 2x8 4000lm 750 HP EXC2 OTD	28006741	750/359	–	3,551 lm	400 mA	42.1 V	46.2 V	–	–	204 lm/W	>70
RLE 2x8 4000lm 757 HP EXC2 OTD	28006767	757/359	–	3,551 lm	400 mA	42.1 V	46.2 V	–	–	204 lm/W	>70
RLE 2x8 4000lm 765 HP EXC2 OTD	28006742	765/359	–	3,551 lm	400 mA	42.1 V	46.2 V	–	–	204 lm/W	>70
RLE 2x8 4000lm 827 HP EXC2 OTD	28006743	827/359	–	3,573 lm	500 mA	42.7 V	47.1 V	–	–	162 lm/W	>80
RLE 2x8 4000lm 830 HP EXC2 OTD	28006744	830/359	–	3,763 lm	500 mA	42.7 V	47.1 V	–	–	170 lm/W	>80
RLE 2x8 4000lm 835 HP EXC2 OTD	28006745	835/359	–	3,823 lm	500 mA	42.7 V	47.1 V	–	–	173 lm/W	>80
RLE 2x8 4000lm 840 HP EXC2 OTD	28006746	840/359	–	3,964 lm	500 mA	42.7 V	47.1 V	–	–	179 lm/W	>80
RLE 2x8 4000lm 850 HP EXC2 OTD	28006747	850/359	–	3,977 lm	500 mA	42.7 V	47.1 V	–	–	180 lm/W	>80
RLE 2x8 4000lm EXC2 OTD – Operating mode NM											
RLE 2x8 4000lm 722 HP EXC2 OTD	28006736	722/359	3,880 lm	3,858 lm	550 mA	42.6 V	46.8 V	24.8 W	156 lm/W	159 lm/W	>70
RLE 2x8 4000lm 727 HP EXC2 OTD	28006737	727/359	4,420 lm	4,244 lm	550 mA	42.6 V	46.8 V	24.8 W	178 lm/W	175 lm/W	>70
RLE 2x8 4000lm 730 HP EXC2 OTD	28006738	730/359	4,620 lm	4,630 lm	550 mA	42.6 V	46.8 V	24.8 W	186 lm/W	191 lm/W	>70
RLE 2x8 4000lm 735 HP EXC2 OTD	28006739	735/359	4,560 lm	4,501 lm	550 mA	42.6 V	46.8 V	24.8 W	184 lm/W	185 lm/W	>70
RLE 2x8 4000lm 740 HP EXC2 OTD	28006740	740/359	5,100 lm	4,887 lm	550 mA	42.6 V	46.8 V	24.8 W	206 lm/W	201 lm/W	>70
RLE 2x8 4000lm 750 HP EXC2 OTD	28006741	750/359	5,020 lm	4,758 lm	550 mA	42.6 V	46.8 V	24.8 W	202 lm/W	196 lm/W	>70
RLE 2x8 4000lm 757 HP EXC2 OTD	28006767	757/359	5,020 lm	4,758 lm	550 mA	42.6 V	46.8 V	24.8 W	202 lm/W	196 lm/W	>70
RLE 2x8 4000lm 765 HP EXC2 OTD	28006742	765/359	5,020 lm	4,758 lm	550 mA	42.6 V	46.8 V	24.8 W	202 lm/W	196 lm/W	>70
RLE 2x8 4000lm 827 HP EXC2 OTD	28006743	827/359	4,620 lm	4,610 lm	650 mA	43.3 V	47.7 V	29.9 W	155 lm/W	158 lm/W	>80
RLE 2x8 4000lm 830 HP EXC2 OTD	28006744	830/359	4,760 lm	4,856 lm	650 mA	43.3 V	47.7 V	29.9 W	159 lm/W	167 lm/W	>80
RLE 2x8 4000lm 835 HP EXC2 OTD	28006745	835/359	4,800 lm	4,932 lm	650 mA	43.3 V	47.7 V	29.9 W	161 lm/W	169 lm/W	>80
RLE 2x8 4000lm 840 HP EXC2 OTD	28006746	840/359	5,300 lm	5,115 lm	650 mA	43.3 V	47.7 V	29.9 W	177 lm/W	176 lm/W	>80
RLE 2x8 4000lm 850 HP EXC2 OTD	28006747	850/359	5,310 lm	5,131 lm	650 mA	43.3 V	47.7 V	29.9 W	178 lm/W	176 lm/W	>80
RLE 2x8 4000lm EXC2 OTD – Operating mode HO											
RLE 2x8 4000lm 722 HP EXC2 OTD	28006736	722/359	–	6,773 lm	1,050 mA	44.2 V	48.4 V	–	–	141 lm/W	>70
RLE 2x8 4000lm 727 HP EXC2 OTD	28006737	727/359	–	7,451 lm	1,050 mA	44.2 V	48.4 V	–	–	155 lm/W	>70
RLE 2x8 4000lm 730 HP EXC2 OTD	28006738	730/359	–	8,128 lm	1,050 mA	44.2 V	48.4 V	–	–	169 lm/W	>70
RLE 2x8 4000lm 735 HP EXC2 OTD	28006739	735/359	–	7,902 lm	1,050 mA	44.2 V	48.4 V	–	–	164 lm/W	>70
RLE 2x8 4000lm 740 HP EXC2 OTD	28006740	740/359	–	8,580 lm	1,050 mA	44.2 V	48.4 V	–	–	178 lm/W	>70
RLE 2x8 4000lm 750 HP EXC2 OTD	28006741	750/359	–	8,354 lm	1,050 mA	44.2 V	48.4 V	–	–	174 lm/W	>70
RLE 2x8 4000lm 757 HP EXC2 OTD	28006767	757/359	–	8,354 lm	1,050 mA	44.2 V	48.4 V	–	–	174 lm/W	>70
RLE 2x8 4000lm 765 HP EXC2 OTD	28006742	765/359	–	8,354 lm	1,050 mA	44.2 V	48.4 V	–	–	174 lm/W	>70
RLE 2x8 4000lm 827 HP EXC2 OTD	28006743	827/359	–	6,913 lm	1,050 mA	44.6 V	49.1 V	–	–	143 lm/W	>80
RLE 2x8 4000lm 830 HP EXC2 OTD	28006744	830/359	–	7,281 lm	1,050 mA	44.6 V	49.1 V	–	–	150 lm/W	>80
RLE 2x8 4000lm 835 HP EXC2 OTD	28006745	835/359	–	7,396 lm	1,050 mA	44.6 V	49.1 V	–	–	153 lm/W	>80
RLE 2x8 4000lm 840 HP EXC2 OTD	28006746	840/359	–	7,670 lm	1,050 mA	44.6 V	49.1 V	–	–	158 lm/W	>80
RLE 2x8 4000lm 850 HP EXC2 OTD	28006747	850/359	–	7,694 lm	1,050 mA	44.6 V	49.1 V	–	–	159 lm/W	>80

① If mounted with M3 screws.

② Tolerance of useful light flux - 0 % / + 15 %. Measurement uncertainty $\pm 10\%$.③ Tolerance of expected light flux - 0 % / + 15 %. Measurement uncertainty $\pm 10\%$. Based on calculation.④ Tolerance of power consumption P_{on} $\pm 10\%$. Measurement uncertainty $\pm 5\%$.

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 / 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 %

1.2 Energy classification

Type	Colour temperature	Forward current	Energy classification	Energy consumption
RLE 2x4 2000lm				
RLE 2x4 2000lm 827 HP EXC2 OTD	2,700 K	650 mA	D	15 kWh / 1,000 h
RLE 2x4 2000lm 830 HP EXC2 OTD	3,000 K	650 mA	D	15 kWh / 1,000 h
RLE 2x4 2000lm 835 HP EXC2 OTD	3,500 K	650 mA	D	15 kWh / 1,000 h
RLE 2x4 2000lm 840 HP EXC2 OTD	4,000 K	650 mA	C	15 kWh / 1,000 h
RLE 2x4 2000lm 850 HP EXC2 OTD	5,000 K	650 mA	C	15 kWh / 1,000 h
RLE 2x4 2000lm 722 HP EXC2 OTD	2,200 K	550 mA	D	13 kWh / 1,000 h
RLE 2x4 2000lm 727 HP EXC2 OTD	2,700 K	550 mA	C	13 kWh / 1,000 h
RLE 2x4 2000lm 730 HP EXC2 OTD	3,300 K	550 mA	C	13 kWh / 1,000 h
RLE 2x4 2000lm 735 HP EXC2 OTD	3,500 K	550 mA	C	13 kWh / 1,000 h
RLE 2x4 2000lm 740 HP EXC2 OTD	4,000 K	550 mA	B	13 kWh / 1,000 h
RLE 2x4 2000lm 750 HP EXC2 OTD	5,000 K	550 mA	B	13 kWh / 1,000 h
RLE 2x4 2000lm 757 HP EXC2 OTD	5,700 K	550 mA	B	13 kWh / 1,000 h
RLE 2x4 2000lm 765 HP EXC2 OTD	6,500 K	550 mA	B	13 kWh / 1,000 h
RLE 2x6 3000lm				
RLE 2x6 3000lm 722 HP EXC2 OTD	2,200 K	550 mA	D	19 kWh / 1,000 h
RLE 2x6 3000lm 727 HP EXC2 OTD	2,700 K	550 mA	C	19 kWh / 1,000 h
RLE 2x6 3000lm 730 HP EXC2 OTD	3,000 K	550 mA	C	19 kWh / 1,000 h
RLE 2x6 3000lm 735 HP EXC2 OTD	3,500 K	550 mA	C	19 kWh / 1,000 h
RLE 2x6 3000lm 740 HP EXC2 OTD	4,000 K	550 mA	B	19 kWh / 1,000 h
RLE 2x6 3000lm 750 HP EXC2 OTD	5,000 K	550 mA	B	19 kWh / 1,000 h
RLE 2x6 3000lm 757 HP EXC2 OTD	5,700 K	550 mA	B	19 kWh / 1,000 h
RLE 2x6 3000lm 765 HP EXC2 OTD	6,500 K	550 mA	B	19 kWh / 1,000 h
RLE 2x6 3000lm 827 HP EXC2 OTD	2,700 K	650 mA	D	23 kWh / 1,000 h
RLE 2x6 3000lm 830 HP EXC2 OTD	3,000 K	650 mA	D	23 kWh / 1,000 h
RLE 2x6 3000lm 835 HP EXC2 OTD	3,500 K	650 mA	D	23 kWh / 1,000 h
RLE 2x6 3000lm 840 HP EXC2 OTD	4,000 K	650 mA	C	23 kWh / 1,000 h
RLE 2x6 3000lm 850 HP EXC2 OTD	5,000 K	650 mA	C	23 kWh / 1,000 h
RLE 2x8 4000lm				
RLE 2x8 4000lm 827 HP EXC2 OTD	2,700 K	650 mA	D	30 kWh / 1,000 h
RLE 2x8 4000lm 830 HP EXC2 OTD	3,000 K	650 mA	D	30 kWh / 1,000 h
RLE 2x8 4000lm 835 HP EXC2 OTD	3,500 K	650 mA	D	30 kWh / 1,000 h
RLE 2x8 4000lm 840 HP EXC2 OTD	4,000 K	650 mA	C	30 kWh / 1,000 h
RLE 2x8 4000lm 850 HP EXC2 OTD	5,000 K	650 mA	C	30 kWh / 1,000 h
RLE 2x8 4000lm 722 HP EXC2 OTD	2,200 K	550 mA	D	25 kWh / 1,000 h
RLE 2x8 4000lm 727 HP EXC2 OTD	2,700 K	550 mA	C	25 kWh / 1,000 h
RLE 2x8 4000lm 730 HP EXC2 OTD	3,000 K	550 mA	C	25 kWh / 1,000 h
RLE 2x8 4000lm 735 HP EXC2 OTD	3,500 K	550 mA	C	25 kWh / 1,000 h
RLE 2x8 4000lm 740 HP EXC2 OTD	4,000 K	550 mA	B	25 kWh / 1,000 h
RLE 2x8 4000lm 750 HP EXC2 OTD	5,000 K	550 mA	B	25 kWh / 1,000 h
RLE 2x8 4000lm 757 HP EXC2 OTD	5,700 K	550 mA	B	25 kWh / 1,000 h
RLE 2x8 4000lm 765 HP EXC2 OTD	6,500 K	550 mA	B	25 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 2000lm EXC2 OTD

ta	tp	Forward current	R _{th, hs-a}	Cooling area
25 °C	75 °C	500 mA	8.50 K/W	78 cm²
25 °C	75 °C	650 mA	6.34 K/W	105 cm²
25 °C	75 °C	1,050 mA	3.73 K/W	179 cm²
35 °C	75 °C	500 mA	6.80 K/W	98 cm²
35 °C	75 °C	650 mA	5.07 K/W	132 cm²
35 °C	75 °C	1,050 mA	2.98 K/W	224 cm²
40 °C	75 °C	500 mA	5.95 K/W	112 cm²
40 °C	75 °C	650 mA	4.43 K/W	150 cm²
40 °C	75 °C	1,050 mA	2.61 K/W	256 cm²
45 °C	75 °C	500 mA	5.10 K/W	131 cm²
45 °C	75 °C	650 mA	3.80 K/W	176 cm²
45 °C	75 °C	1,050 mA	2.24 K/W	298 cm²
50 °C	75 °C	500 mA	4.25 K/W	157 cm²
50 °C	75 °C	650 mA	3.16 K/W	211 cm²
50 °C	75 °C	1,050 mA	1.86 K/W	358 cm²
55 °C	75 °C	500 mA	3.39 K/W	196 cm²
55 °C	75 °C	650 mA	2.53 K/W	264 cm²
55 °C	75 °C	1,050 mA	1.49 K/W	448 cm²
60 °C	75 °C	500 mA	2.54 K/W	262 cm²
60 °C	75 °C	650 mA	1.89 K/W	352 cm²
60 °C	75 °C	1,050 mA	1.11 K/W	598 cm²

RLE 2x6 3000lm EXC2 OTD

ta	tp	Forward current	R _{th, hs-a}	Cooling area
25 °C	75 °C	500 mA	5.32 K/W	125 cm²
25 °C	75 °C	650 mA	4.09 K/W	163 cm²
25 °C	75 °C	1,050 mA	2.34 K/W	285 cm²
35 °C	75 °C	500 mA	4.25 K/W	157 cm²
35 °C	75 °C	650 mA	3.27 K/W	204 cm²
35 °C	75 °C	1,050 mA	1.87 K/W	356 cm²
40 °C	75 °C	500 mA	3.72 K/W	179 cm²
40 °C	75 °C	650 mA	2.86 K/W	233 cm²
40 °C	75 °C	1,050 mA	1.64 K/W	408 cm²
45 °C	75 °C	500 mA	3.19 K/W	209 cm²
45 °C	75 °C	650 mA	2.45 K/W	272 cm²
45 °C	75 °C	1,050 mA	1.40 K/W	476 cm²
50 °C	75 °C	500 mA	2.65 K/W	251 cm²
50 °C	75 °C	650 mA	2.04 K/W	327 cm²
50 °C	75 °C	1,050 mA	1.17 K/W	572 cm²
55 °C	75 °C	500 mA	2.12 K/W	314 cm²
55 °C	75 °C	650 mA	1.63 K/W	409 cm²
55 °C	75 °C	1,050 mA	0.93 K/W	716 cm²
60 °C	75 °C	500 mA	1.59 K/W	419 cm²
60 °C	75 °C	650 mA	1.22 K/W	546 cm²
60 °C	75 °C	1,050 mA	0.70 K/W	957 cm²

RLE 2x8 4000lm EXC2 OTD

ta	tp	Forward current	R _{th, hs-a}	Cooling area
25 °C	75 °C	500 mA	5.28 K/W	126 cm²
25 °C	75 °C	650 mA	3.17 K/W	210 cm²
25 °C	75 °C	1,050 mA	2.27 K/W	293 cm²
35 °C	75 °C	500 mA	4.22 K/W	158 cm²
35 °C	75 °C	650 mA	2.54 K/W	263 cm²
35 °C	75 °C	1,050 mA	1.82 K/W	367 cm²
40 °C	75 °C	500 mA	3.69 K/W	181 cm²
40 °C	75 °C	650 mA	2.22 K/W	300 cm²
40 °C	75 °C	1,050 mA	1.59 K/W	419 cm²
45 °C	75 °C	500 mA	3.16 K/W	211 cm²
45 °C	75 °C	650 mA	1.90 K/W	351 cm²
45 °C	75 °C	1,050 mA	1.36 K/W	489 cm²
50 °C	75 °C	500 mA	2.64 K/W	253 cm²
50 °C	75 °C	650 mA	1.58 K/W	421 cm²
50 °C	75 °C	1,050 mA	1.14 K/W	587 cm²
55 °C	75 °C	500 mA	2.11 K/W	316 cm²
55 °C	75 °C	650 mA	1.27 K/W	526 cm²
55 °C	75 °C	1,050 mA	0.91 K/W	735 cm²
60 °C	75 °C	500 mA	1.58 K/W	422 cm²
60 °C	75 °C	650 mA	0.95 K/W	703 cm²
60 °C	75 °C	1,050 mA	0.68 K/W	981 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.

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.

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

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



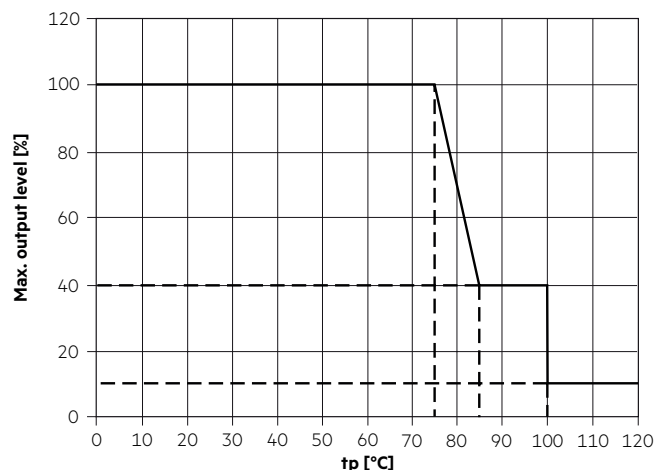
RLE modules are basic insulated up to 370 V if mounted with M3 screws or 670 V if mounted with M3 screws and lens (e.g. LEDiL Strada 2x2) against ground and can be mounted directly on earthed metal parts of the luminaire. If the max. output voltage of the LED driver (also against earth) is above 370 V / 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.

The NTC is designed to work with the LCO EXC3 drivers supporting NTC functionality (for more details see LED driver data sheet).

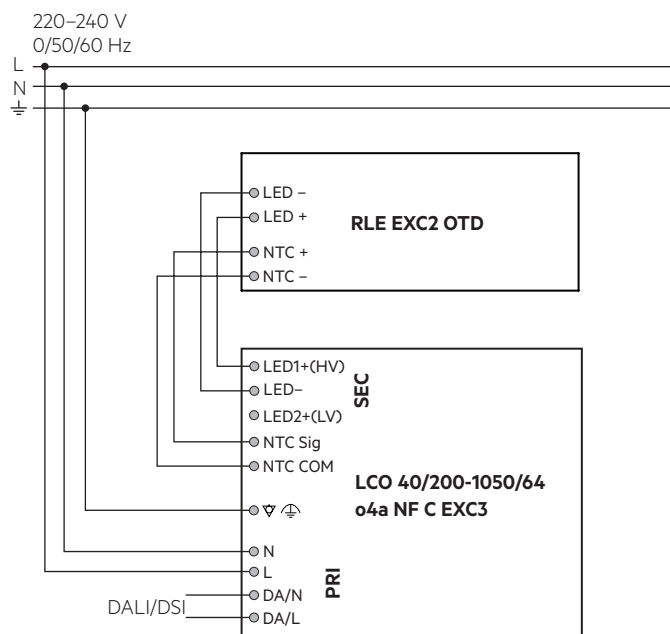
NTC type: 100kΩ / 4100K



3.3 Wiring

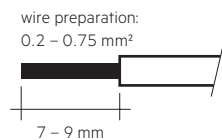


3.4 Wiring examples



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.

Operation below 200 mA may reduce lumen maintenance.

4.2 Lumen maintenance

Typ. forward current	tp temperature	L90 / B10	L90 / B50	L80 / B10	L80 / B50	L70 / B10	L70 / B50
500 mA	55 °C	>150,000 h	>150,000 h	>150,000 h	>150,000 h	>150,000 h	>150,000 h
	85 °C	>150,000 h	>150,000 h	>150,000 h	>150,000 h	>150,000 h	>150,000 h
	105 °C	>150,000 h	>150,000 h	>150,000 h	>150,000 h	>150,000 h	>150,000 h
700 mA	55 °C	>150,000 h	>150,000 h	>150,000 h	>150,000 h	>150,000 h	>150,000 h
	85 °C	>150,000 h	>150,000 h	>150,000 h	>150,000 h	>150,000 h	>150,000 h
	105 °C	>150,000 h	>150,000 h	>150,000 h	>150,000 h	>150,000 h	>150,000 h
1,050 mA	55 °C	>150,000 h	>150,000 h	>150,000 h	>150,000 h	>150,000 h	>150,000 h
	85 °C	136,000 h	>150,000 h	>150,000 h	>150,000 h	>150,000 h	>150,000 h
	105 °C	51,000 h	130,000 h	117,000 h	>150,000 h	>150,000 h	>150,000 h

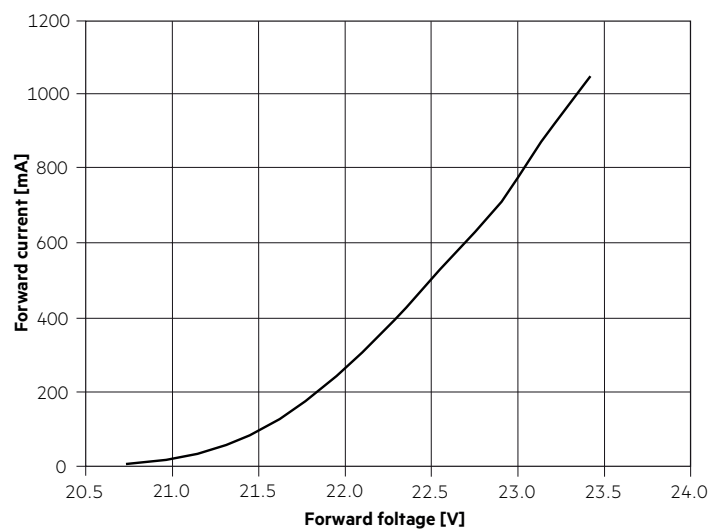
L00C03 >150k h. At tp rated and Irated.

For 2200 K product variants the lumen maintenance values are based on LM-80 test data up to and including 700 mA. No LM-80 test data for this specific CCT is available for higher forward currents.

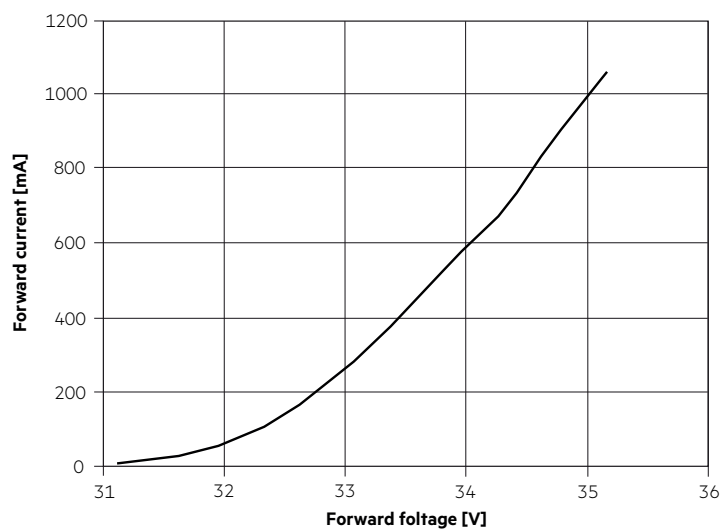
5. Electrical values

5.1 Typ. forward voltage vs. forward current

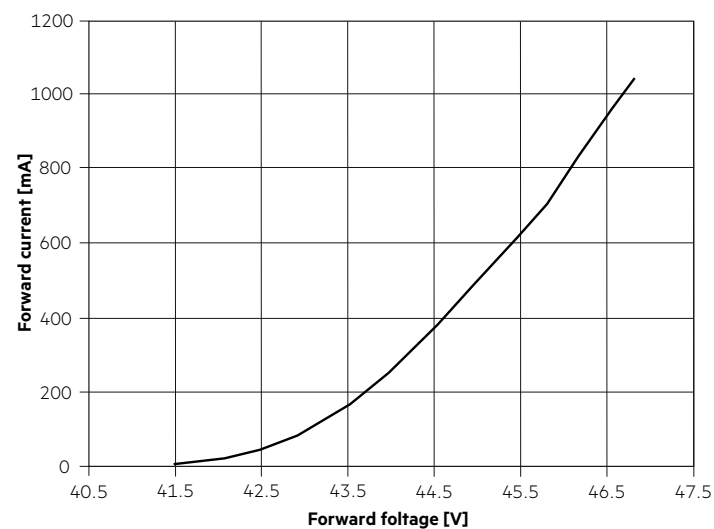
RLE 2x4 2000lm xxx HP EXC2 OTD



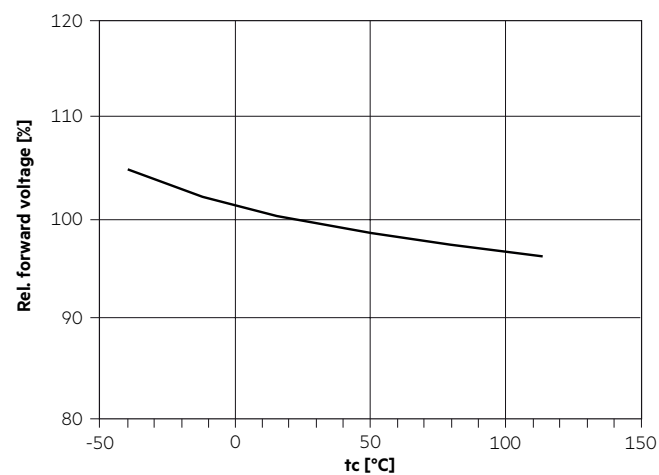
RLE 2x6 3000lm xxx HP EXC2 OTD



RLE 2x8 4000lm xxx HP EXC2 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

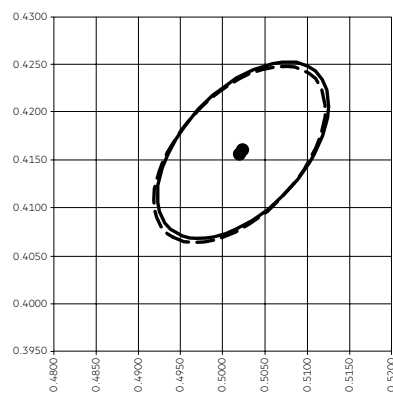
The specified colour coordinates are integral measured by current impulse of 700 mA and a duration of 100 ms.

The ambient temperature of the measurement is $t_p = 75^\circ\text{C}$ steady state.

The measurement tolerance of the colour coordinates are ± 0.01 .

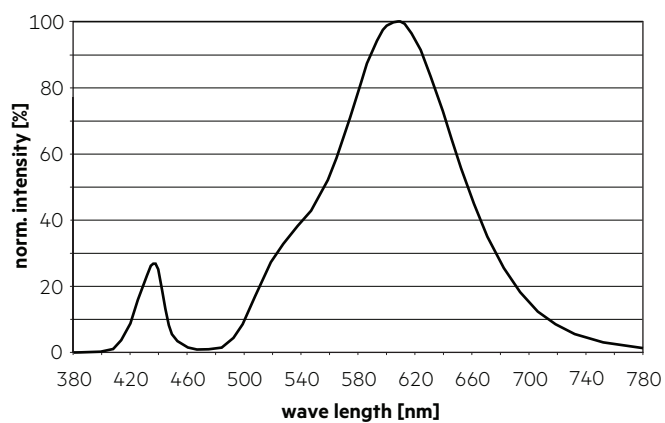
2,200 K, CRI 70

	x0	y0
Centre	0.5020	0.4156



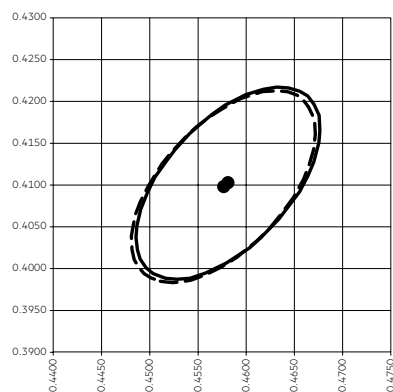
— MacAdam Ellipse: 5SDCM ($t_p = 75^\circ\text{C}$)

- - MacAdam Ellipse: 5SDCM ($t_a = 25^\circ\text{C}$)



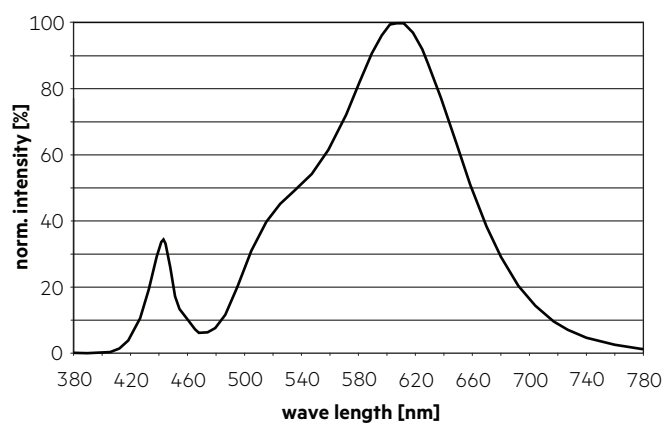
2,700 K, CRI 80

	x0	y0
Centre	0.4577	0.4098



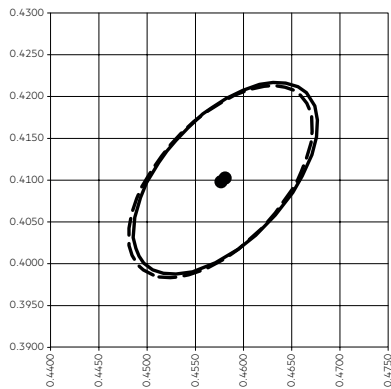
— MacAdam Ellipse: 5SDCM ($t_p = 75^\circ\text{C}$)

- - MacAdam Ellipse: 5SDCM ($t_a = 25^\circ\text{C}$)



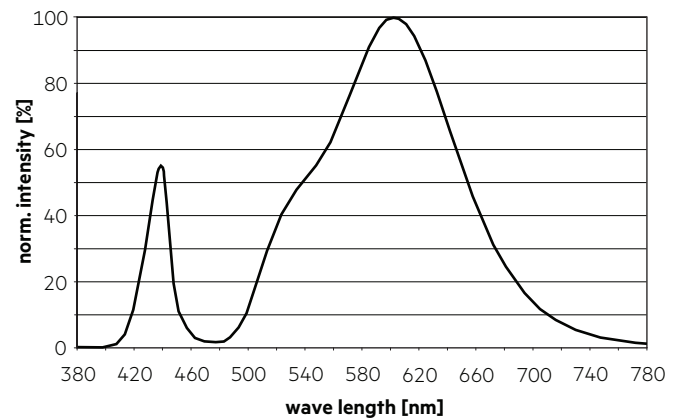
2,700 K, CRI 70

	x0	y0
Centre	0.4577	0.4098

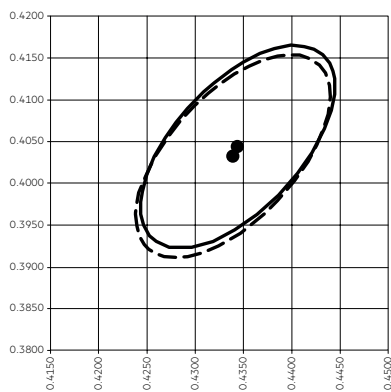


— MacAdam Ellipse: 5SDCM (tp = 75 °C)

- - MacAdam Ellipse: 5SDCM (ta = 25 °C)

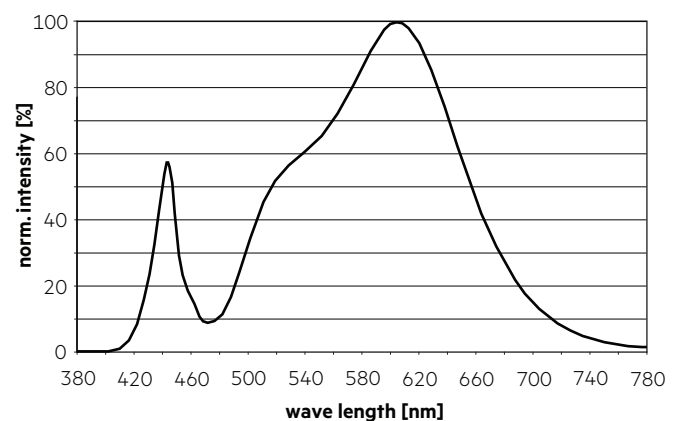
**3,000 K, CRI 80**

	x0	y0
Centre	0.4339	0.4032

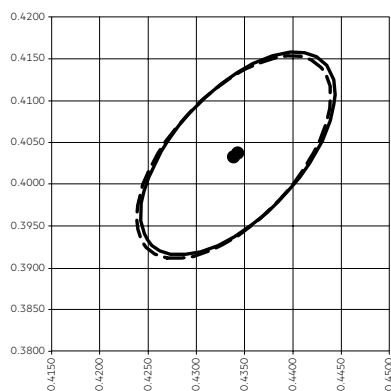


— MacAdam Ellipse: 5SDCM (tp = 75 °C)

- - MacAdam Ellipse: 5SDCM (ta = 25 °C)

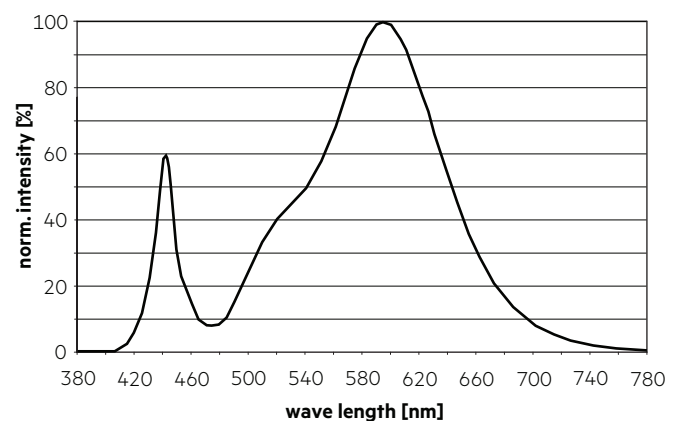
**3,000 K, CRI 70**

	x0	y0
Centre	0.4339	0.4032



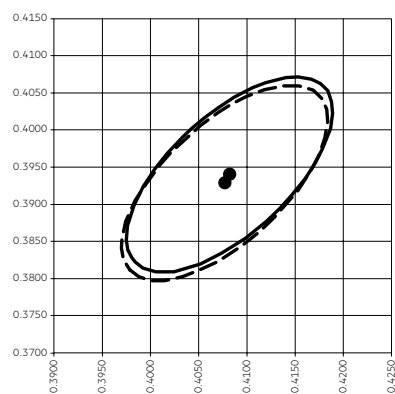
— MacAdam Ellipse: 5SDCM (tp = 75 °C)

- - MacAdam Ellipse: 5SDCM (ta = 25 °C)



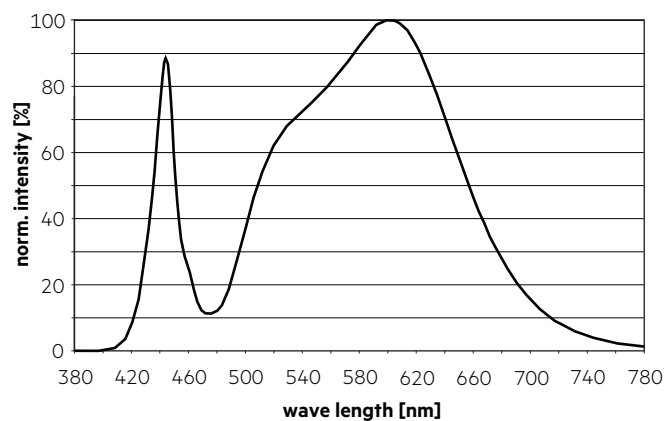
3,500 K, CRI 80

	x0	y0
Centre	0.4077	0.3929

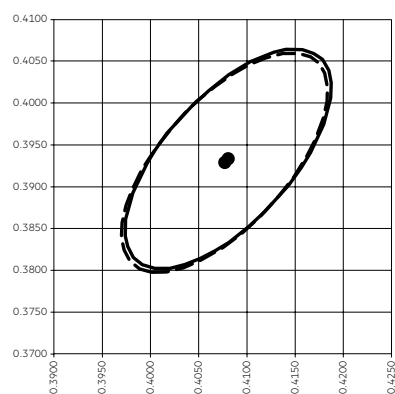


— MacAdam Ellipse: 5SDCM (tp = 75 °C)

- - MacAdam Ellipse: 5SDCM (ta = 25 °C)

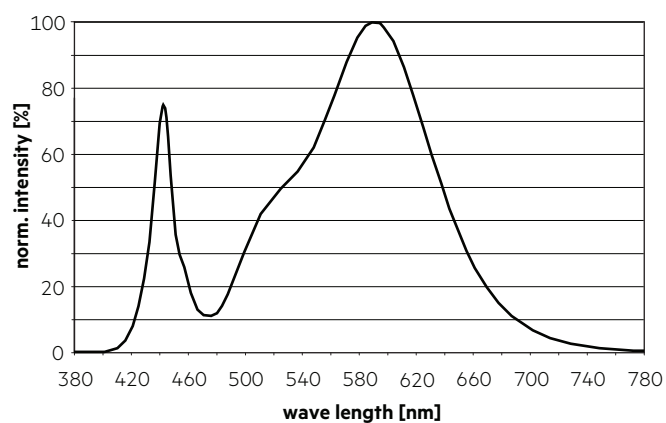
**3,500 K, CRI 70**

	x0	y0
Centre	0.4077	0.3929

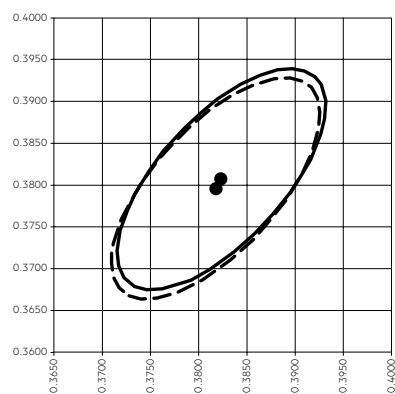


— MacAdam Ellipse: 5SDCM (tp = 75 °C)

- - MacAdam Ellipse: 5SDCM (ta = 25 °C)

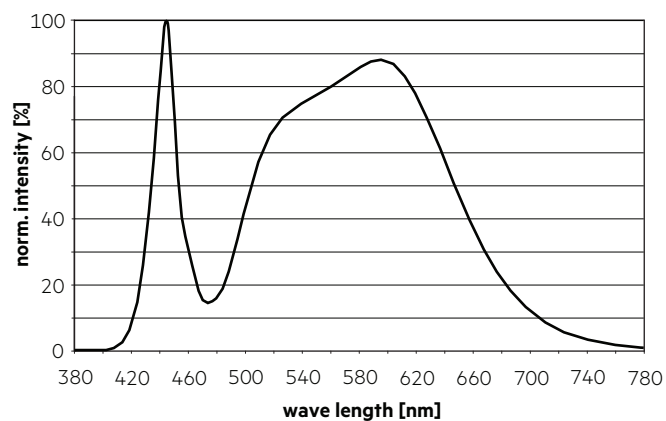
**4,000 K, CRI 80**

	x0	y0
Centre	0.3818	0.3796



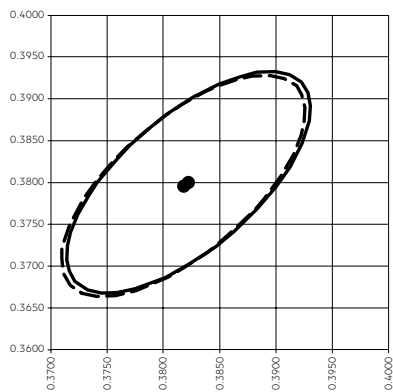
— MacAdam Ellipse: 5SDCM (tp = 75 °C)

- - MacAdam Ellipse: 5SDCM (ta = 25 °C)



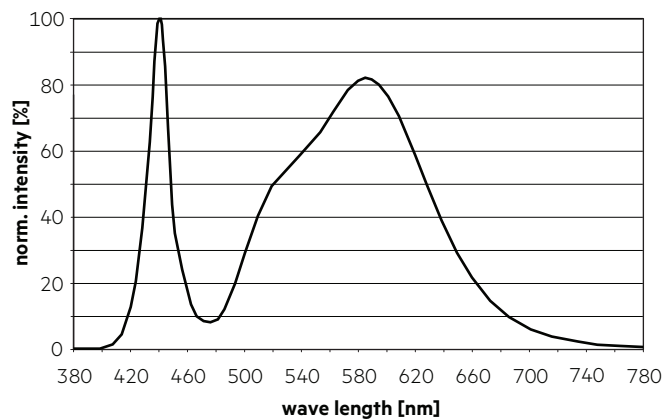
4,000 K, CRI 70

	x0	y0
Centre	0.3818	0.3796

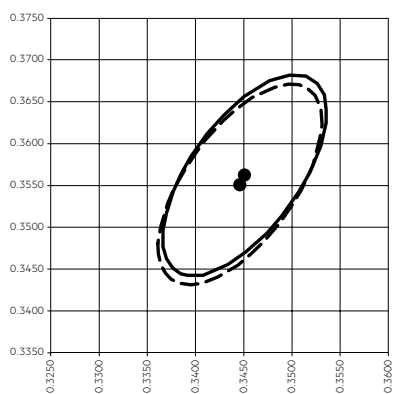


— MacAdam Ellipse: 5SDCM (tp = 75 °C)

- - MacAdam Ellipse: 5SDCM (ta = 25 °C)

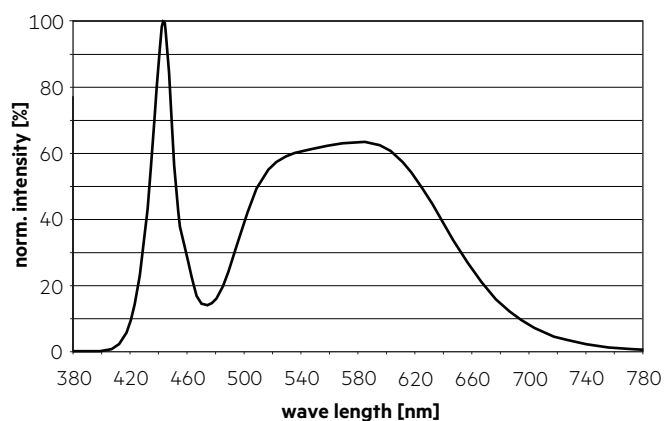
**5,000 K, CRI 80**

	x0	y0
Centre	0.3446	0.3551

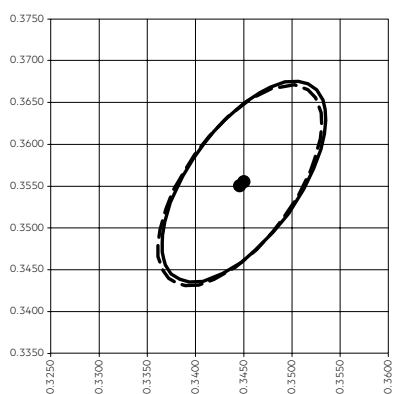


— MacAdam Ellipse: 5SDCM (tp = 75 °C)

- - MacAdam Ellipse: 5SDCM (ta = 25 °C)

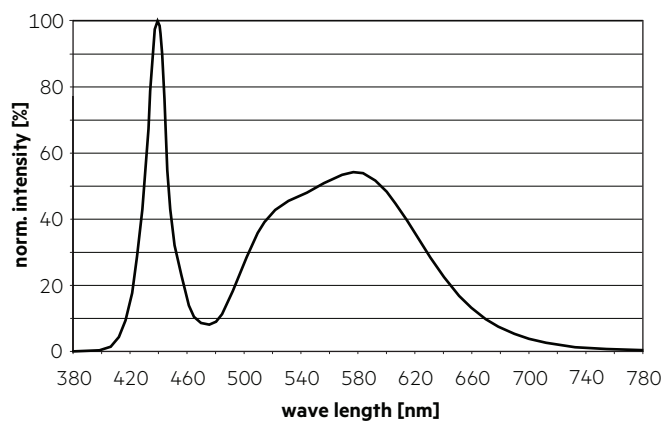
**5,000 K, CRI 70**

	x0	y0
Centre	0.3446	0.3551



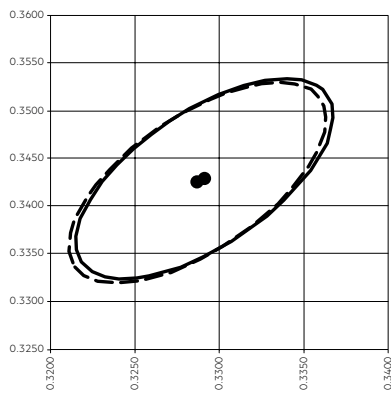
— MacAdam Ellipse: 5SDCM (tp = 75 °C)

- - MacAdam Ellipse: 5SDCM (ta = 25 °C)



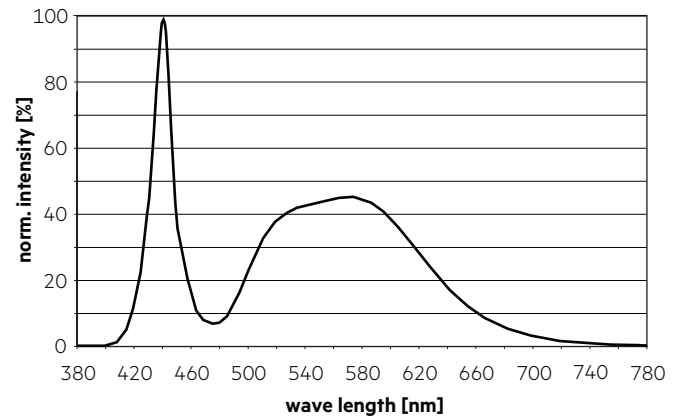
5,700 K, CRI 70

	x0	y0
Centre	0.3287	0.3425

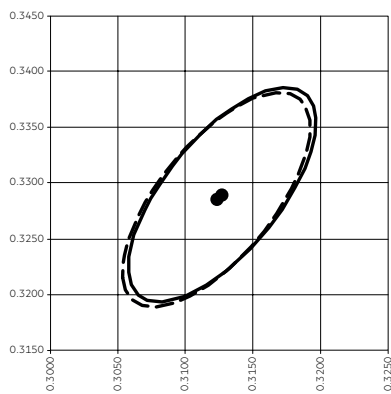


— MacAdam Ellipse: 5SDCM (tp = 75 °C)

- - MacAdam Ellipse: 5SDCM (ta = 25 °C)

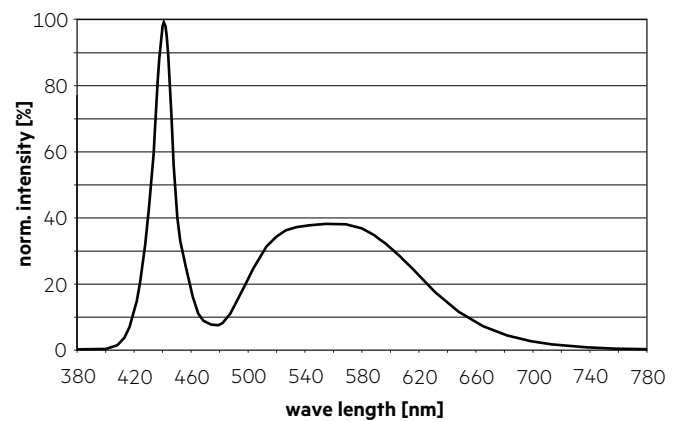
**6,500 K, CRI 70**

	x0	y0
Centre	0.3123	0.3285



— MacAdam Ellipse: 5SDCM (tp = 75 °C)

- - MacAdam Ellipse: 5SDCM (ta = 25 °C)

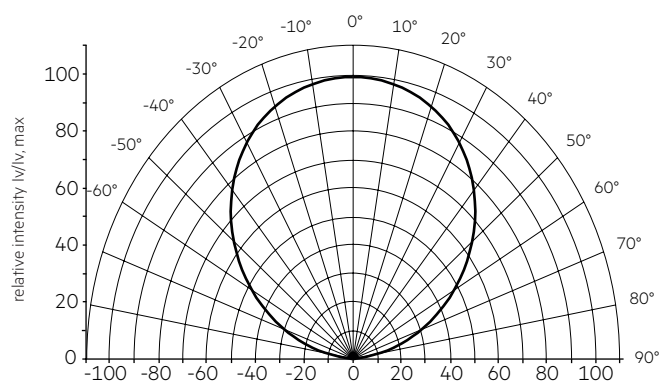
**6.2 Spectral G-Index**

CCT	CRI	G-Index
2,200 K	70	2.3
2,700 K	70	1.8
3,000 K	70	1.5
3,500 K	70	1.2
4,000 K	70	1.0
5,000 K	70	0.6
5,700 K	70	0.5
6,500 K	70	0.3
2,700 K	80	1.8
3,000 K	80	1.5
3,500 K	80	1.2
4,000 K	80	1.0
5,000 K	80	0.8

Based on typical spectral distribution measured at 25°C and Irated.

6.3 Light distribution

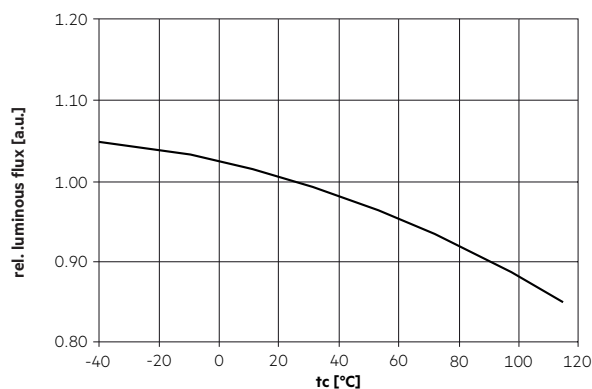
RLE G1 OTD modules are designed to be compatible with 50 x 50 mm lense arrays with 25.4 mm pitch distance. This allows multiple light distributions.



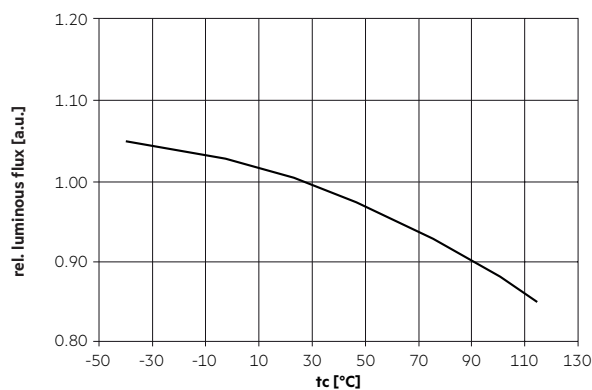
The colour temperature is measured integral over the complete module. The single LED light points can have deviations in the colour coordinates within MacAdam 4.

6.4 Relative luminous flux vs. t_c temperature

CRI 80

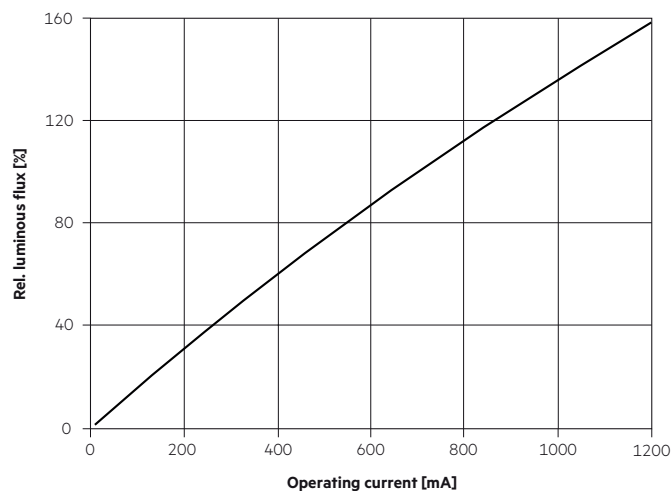


CRI 70

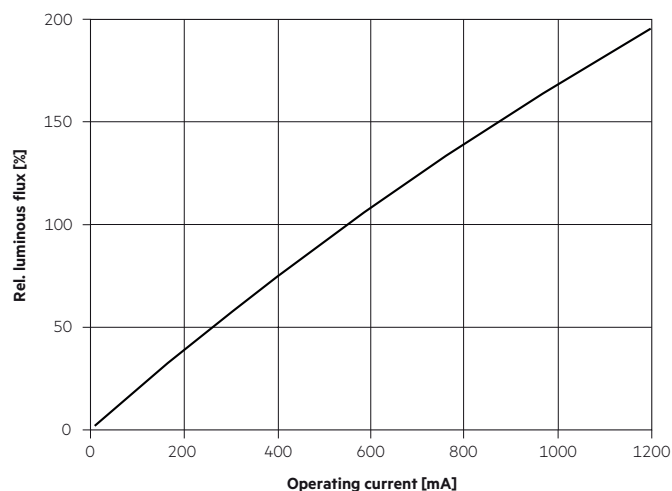


6.5 Relative luminous flux vs. operating current

CRI 80



CRI 70



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

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.