



Module RLE ADV2 OTD

Modules RLE advanced

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
- Integrated NTC for overtemperature protection
- For use with x16 lenses (e.g. LEDIL Stradella 16)
- Push terminals for quick and simple wiring
- Long life-time up to 80,000 hours
- 5-year guarantee



Optical properties

- Colour temperatures 2,700 K, 3,000 K, 4,000 K, 5,000 K and 6,500 K
- Typ. luminous flux 2,000 and 4,000 lm
- Efficacy of the module up to 190 lm/W at 500 mA (nominal operation)
- High colour rendering index CRI > 80
- Small luminous flux tolerances^①

Mechanical properties

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



Standards, page 4

Colour temperatures and tolerances, page 8



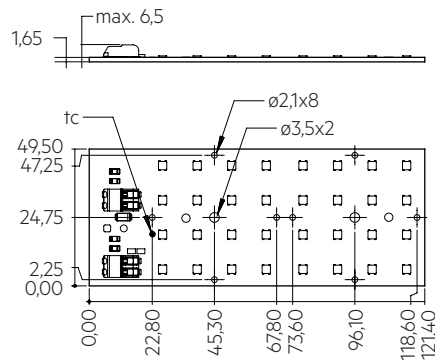


Module RLE ADV2 OTD

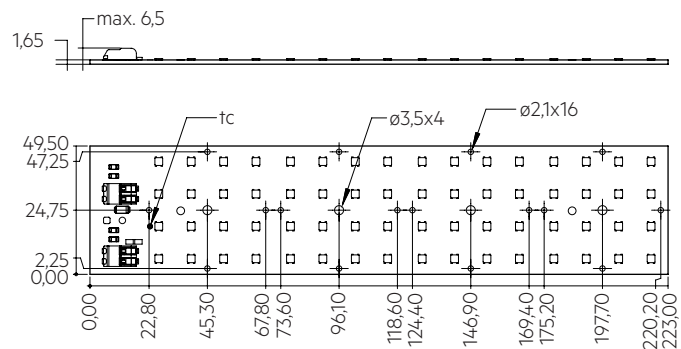
Modules RLE advanced

Technical data

Beam characteristic	120°
Ambient temperature range	-40 ... +80 °C
tp rated	75 °C
tc	95 °C
Irated	500 mA
I _{max}	720 mA
Max. permissible LF current ripple	800 mA
Max. permissible peak current	1,200 mA / max. 10 ms
Max. working voltage for insulation ²⁾	410 V
Max. working voltage for insulation with lens	570 V
Insulation test voltage	1.82 kV
CTI of the printed circuit board	> 600
ESD classification	severity level 2
Risk group (IEC 62471) ³⁾	RG0
Classification acc. to IEC 62031	Built-in
Type of protection	IP00
Life-time	up to 80,000 h



RLE 4x8 2000lm MP ADV2 OTD



RLE 4x16 4000lm MP ADV2 OTD

Ordering data

Type	Article number	Colour temperature	Packaging carton	Weight per pc.
RLE 4x8 2000lm 827 MP ADV2 OTD	28003053	2,700 K	46 pc(s).	0.021 kg
RLE 4x8 2000lm 830 MP ADV2 OTD	89603170	3,000 K	46 pc(s).	0.021 kg
RLE 4x8 2000lm 840 MP ADV2 OTD	89603171	4,000 K	46 pc(s).	0.021 kg
RLE 4x8 2000lm 850 MP ADV2 OTD	89603172	5,000 K	46 pc(s).	0.021 kg
RLE 4x8 2000lm 865 MP ADV2 OTD	89603173	6,500 K	46 pc(s).	0.021 kg
RLE 4x16 4000lm 830 MP ADV2 OTD	89603174	3,000 K	88 pc(s).	0.039 kg
RLE 4x16 4000lm 840 MP ADV2 OTD	89603175	4,000 K	88 pc(s).	0.039 kg
RLE 4x16 4000lm 850 MP ADV2 OTD	89603176	5,000 K	88 pc(s).	0.039 kg
RLE 4x16 4000lm 865 MP ADV2 OTD	89603177	6,500 K	88 pc(s).	0.039 kg

Specific technical data

Type®	Photo-metric code	Typ. luminous flux at tp = 25 °C®	Typ. luminous flux at tp = 75 °C®	Typ. forward current	Min. forward voltage at tp = 75 °C	Max. forward voltage at tp = 25 °C	Typ. power consumption at tp = 75 °C®	Efficacy of the module at tp = 25 °C	Efficacy of the module at tp = 75 °C	Efficacy of the system at tp = 75 °C	Colour rendering index CRI
RLE 4x8 2000lm ADV2 OTD – Operating mode HE											
RLE 4x8 2000lm 827 MP ADV2 OTD	827/359	1,480 lm	1,410 lm	350 mA	20.6 V	22.9 V	7.6 W	192 lm/W	186 lm/W	171 lm/W	> 80
RLE 4x8 2000lm 830 MP ADV2 OTD	830/359	1,520 lm	1,450 lm	350 mA	20.6 V	22.9 V	7.6 W	195 lm/W	191 lm/W	176 lm/W	> 80
RLE 4x8 2000lm 840 MP ADV2 OTD	840/359	1,560 lm	1,490 lm	350 mA	20.6 V	22.9 V	7.6 W	200 lm/W	196 lm/W	180 lm/W	> 80
RLE 4x8 2000lm 850 MP ADV2 OTD	850/359	1,580 lm	1,500 lm	350 mA	20.6 V	22.9 V	7.6 W	203 lm/W	197 lm/W	181 lm/W	> 80
RLE 4x8 2000lm 865 MP ADV2 OTD	865/359	1,540 lm	1,470 lm	350 mA	20.6 V	22.9 V	7.6 W	197 lm/W	193 lm/W	178 lm/W	> 80
RLE 4x8 2000lm ADV2 OTD – Operating mode NM											
RLE 4x8 2000lm 827 MP ADV2 OTD	827/359	2,070 lm	1,970 lm	500 mA	21.0 V	23.3 V	11.1 W	183 lm/W	179 lm/W	165 lm/W	> 80
RLE 4x8 2000lm 830 MP ADV2 OTD	830/359	2,120 lm	2,020 lm	500 mA	21.0 V	23.3 V	11.1 W	187 lm/W	182 lm/W	166 lm/W	> 80
RLE 4x8 2000lm 840 MP ADV2 OTD	840/359	2,180 lm	2,080 lm	500 mA	21.0 V	23.3 V	11.1 W	192 lm/W	187 lm/W	170 lm/W	> 80
RLE 4x8 2000lm 850 MP ADV2 OTD	850/359	2,210 lm	2,110 lm	500 mA	21.0 V	23.3 V	11.1 W	195 lm/W	190 lm/W	173 lm/W	> 80
RLE 4x8 2000lm 865 MP ADV2 OTD	865/359	2,150 lm	2,050 lm	500 mA	21.0 V	23.3 V	11.1 W	189 lm/W	185 lm/W	168 lm/W	> 80
RLE 4x8 2000lm ADV2 OTD – Operating mode HO											
RLE 4x8 2000lm 827 MP ADV2 OTD	827/359	2,850 lm	2,720 lm	700 mA	21.5 V	23.9 V	15.9 W	176 lm/W	172 lm/W	158 lm/W	> 80
RLE 4x8 2000lm 830 MP ADV2 OTD	830/359	2,930 lm	2,790 lm	700 mA	21.5 V	23.9 V	15.9 W	180 lm/W	175 lm/W	161 lm/W	> 80
RLE 4x8 2000lm 840 MP ADV2 OTD	840/359	3,010 lm	2,870 lm	700 mA	21.5 V	23.9 V	15.9 W	185 lm/W	181 lm/W	167 lm/W	> 80
RLE 4x8 2000lm 850 MP ADV2 OTD	850/359	3,040 lm	2,890 lm	700 mA	21.5 V	23.9 V	15.9 W	187 lm/W	182 lm/W	167 lm/W	> 80
RLE 4x8 2000lm 865 MP ADV2 OTD	865/359	2,970 lm	2,830 lm	700 mA	21.5 V	23.9 V	15.9 W	182 lm/W	178 lm/W	164 lm/W	> 80
RLE 4x16 4000lm ADV2 OTD – Operating mode HE											
RLE 4x16 4000lm 830 MP ADV2 OTD	830/359	3,040 lm	2,900 lm	350 mA	41.1 V	45.7 V	15.2 W	195 lm/W	191 lm/W	176 lm/W	> 80
RLE 4x16 4000lm 840 MP ADV2 OTD	840/359	3,130 lm	2,980 lm	350 mA	41.1 V	45.7 V	15.2 W	201 lm/W	196 lm/W	180 lm/W	> 80
RLE 4x16 4000lm 850 MP ADV2 OTD	850/359	3,160 lm	3,010 lm	350 mA	41.1 V	45.7 V	15.2 W	203 lm/W	198 lm/W	181 lm/W	> 80
RLE 4x16 4000lm 865 MP ADV2 OTD	865/359	3,080 lm	2,940 lm	350 mA	41.1 V	45.7 V	15.2 W	197 lm/W	193 lm/W	178 lm/W	> 80
RLE 4x16 4000lm ADV2 OTD – Operating mode NM											
RLE 4x16 4000lm 830 MP ADV2 OTD	830/359	4,240 lm	4,040 lm	500 mA	42.0 V	46.6 V	22.2 W	187 lm/W	182 lm/W	166 lm/W	> 80
RLE 4x16 4000lm 840 MP ADV2 OTD	840/359	4,360 lm	4,160 lm	500 mA	42.0 V	46.6 V	22.2 W	192 lm/W	187 lm/W	170 lm/W	> 80
RLE 4x16 4000lm 850 MP ADV2 OTD	850/359	4,420 lm	4,220 lm	500 mA	42.0 V	46.6 V	22.2 W	195 lm/W	190 lm/W	173 lm/W	> 80
RLE 4x16 4000lm 865 MP ADV2 OTD	865/359	4,300 lm	4,100 lm	500 mA	42.0 V	46.6 V	22.2 W	189 lm/W	185 lm/W	168 lm/W	> 80
RLE 4x16 4000lm ADV2 OTD – Operating mode HO											
RLE 4x16 4000lm 830 MP ADV2 OTD	830/359	5,860 lm	5,580 lm	700 mA	43.0 V	47.7 V	31.8 W	180 lm/W	175 lm/W	161 lm/W	> 80
RLE 4x16 4000lm 840 MP ADV2 OTD	840/359	6,020 lm	5,740 lm	700 mA	43.0 V	47.7 V	31.8 W	185 lm/W	181 lm/W	167 lm/W	> 80
RLE 4x16 4000lm 850 MP ADV2 OTD	850/359	6,080 lm	5,790 lm	700 mA	43.0 V	47.7 V	31.8 W	187 lm/W	182 lm/W	167 lm/W	> 80
RLE 4x16 4000lm 865 MP ADV2 OTD	865/359	5,930 lm	5,650 lm	700 mA	43.0 V	47.7 V	31.8 W	182 lm/W	178 lm/W	164 lm/W	> 80

® Integral measurement over the complete module.

® If mounted with M3 screws.

® Measured at I = 800 mA.

® Tolerance range for optical and electrical data: ±10 %.

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

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 / 459

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 life-time (max.6000h)
7	70 – 79			Luminous flux after 25% of the life-time (max.6000h)
8	80 – 89			Code
9	≥90			Luminous flux
				7 ≥ 70 %
				8 ≥ 80 %
				9 ≥ 90 %

1.2 Energy classification

Type	Operating mode	Energy classification
RLE 4x8 2000lm 8xx MP ADV2 OTD	NM	A++
RLE 4x16 4000lm 8xx MP ADV2 OTD	NM	A++

2. Thermal details

2.1 tc point, ambient temperature and life-time

The temperature at tp reference point is crucial for the light output and life-time 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 life-time.

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
---------------------	----------------

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 4x8 2000lm ADV2 OTD

ta	tp	Forward current	R _{th, hs-a}	Cooling area
25 °C	75 °C	350 mA	13.75 K/W	48 cm²
25 °C	75 °C	500 mA	9.14 K/W	73 cm²
25 °C	75 °C	700 mA	6.06 K/W	110 cm²
35 °C	75 °C	350 mA	11.00 K/W	61 cm²
35 °C	75 °C	500 mA	7.31 K/W	91 cm²
35 °C	75 °C	700 mA	4.85 K/W	137 cm²
40 °C	75 °C	350 mA	9.62 K/W	69 cm²
40 °C	75 °C	500 mA	6.40 K/W	104 cm²
40 °C	75 °C	700 mA	4.24 K/W	157 cm²
45 °C	75 °C	350 mA	8.25 K/W	81 cm²
45 °C	75 °C	500 mA	5.48 K/W	122 cm²
45 °C	75 °C	700 mA	3.63 K/W	183 cm²
50 °C	75 °C	350 mA	6.87 K/W	97 cm²
50 °C	75 °C	500 mA	4.57 K/W	146 cm²
50 °C	75 °C	700 mA	3.03 K/W	220 cm²
55 °C	75 °C	350 mA	5.50 K/W	121 cm²
55 °C	75 °C	500 mA	3.65 K/W	182 cm²
55 °C	75 °C	700 mA	2.42 K/W	275 cm²
60 °C	75 °C	350 mA	4.12 K/W	162 cm²
60 °C	75 °C	500 mA	2.74 K/W	243 cm²
60 °C	75 °C	700 mA	1.81 K/W	368 cm²

RLE 4x16 4000lm ADV2 OTD

ta	tp	Forward current	R _{th, hs-a}	Cooling area
25 °C	75 °C	350 mA	6.87 K/W	97 cm²
25 °C	75 °C	500 mA	4.54 K/W	147 cm²
25 °C	75 °C	700 mA	3.03 K/W	220 cm²
35 °C	75 °C	350 mA	5.50 K/W	121 cm²
35 °C	75 °C	500 mA	3.63 K/W	184 cm²
35 °C	75 °C	700 mA	2.42 K/W	275 cm²
40 °C	75 °C	350 mA	4.81 K/W	139 cm²
40 °C	75 °C	500 mA	3.18 K/W	210 cm²
40 °C	75 °C	700 mA	2.12 K/W	314 cm²
45 °C	75 °C	350 mA	4.12 K/W	162 cm²
45 °C	75 °C	500 mA	2.72 K/W	245 cm²
45 °C	75 °C	700 mA	1.82 K/W	367 cm²
50 °C	75 °C	350 mA	3.44 K/W	194 cm²
50 °C	75 °C	500 mA	2.27 K/W	294 cm²
50 °C	75 °C	700 mA	1.51 K/W	440 cm²
55 °C	75 °C	350 mA	2.75 K/W	243 cm²
55 °C	75 °C	500 mA	1.81 K/W	368 cm²
55 °C	75 °C	700 mA	1.21 K/W	551 cm²
60 °C	75 °C	350 mA	2.06 K/W	324 cm²
60 °C	75 °C	500 mA	1.36 K/W	491 cm²
60 °C	75 °C	700 mA	0.91 K/W	735 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.

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



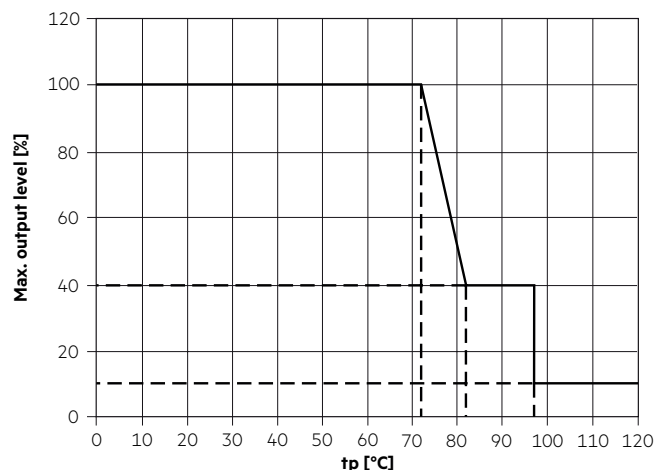
RLE modules are basic insulated up to 410 V if mounted with M3 screws or 570 V if mounted with M3 screws and lens (e.g. LEDIL Stradella 16) against ground and can be mounted directly on earthed metal parts of the luminaire. If the max. output voltage of the LED Driver (also against earth) is above 410 V / 570 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).

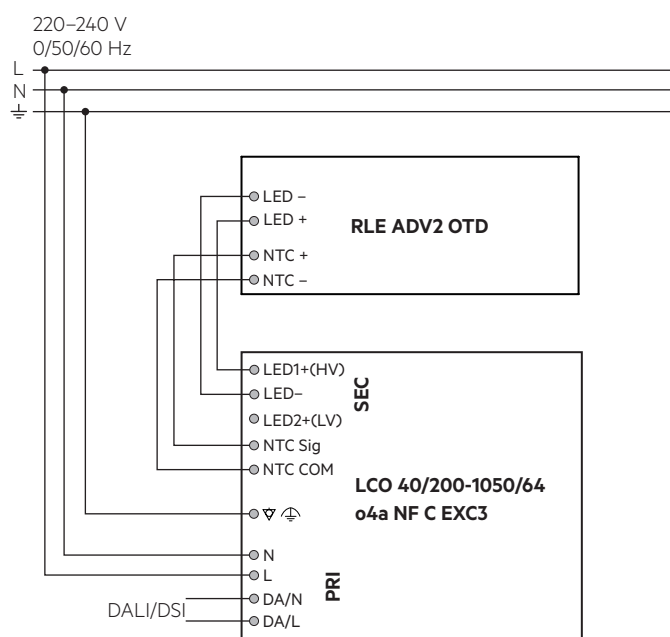
NTC type: 100kΩ / 4100K



3.3 Wiring

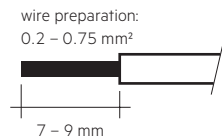


3.4 Wiring examples



3.5 Wiring type and cross section

The wiring can be solid or stranded wires with a cross section of 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. Life-time

4.1 Life-time, lumen maintenance and failure rate

The light output of an LED Module decreases over the life-time, 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 life-time 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.

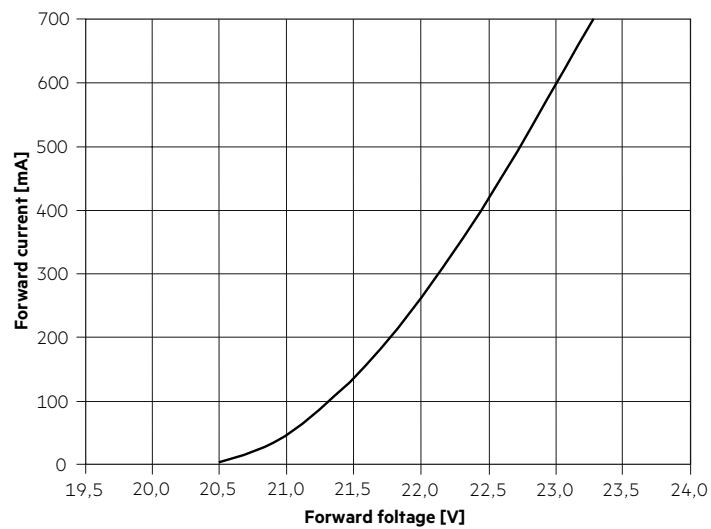
4.2 Lumen maintenance

Typ. forward current	tp temperature	L90 / B10	L90 / B50	L80 / B10	L80 / B50	L70 / B10	L70 / B50
350 mA	45 °C	37,000 h	42,000 h	79,000 h	>80,000 h	>80,000 h	>80,000 h
	50 °C	36,000 h	41,000 h	77,000 h	>80,000 h	>80,000 h	>80,000 h
	55 °C	36,000 h	40,000 h	76,000 h	>80,000 h	>80,000 h	>80,000 h
	60 °C	35,000 h	40,000 h	74,000 h	>80,000 h	>80,000 h	>80,000 h
	65 °C	34,000 h	39,000 h	72,000 h	>80,000 h	>80,000 h	>80,000 h
	70 °C	33,000 h	38,000 h	71,000 h	>80,000 h	>80,000 h	>80,000 h
	75 °C	32,000 h	37,000 h	69,000 h	>80,000 h	>80,000 h	>80,000 h
	80 °C	31,000 h	36,000 h	68,000 h	79,000 h	>80,000 h	>80,000 h
	85 °C	27,000 h	30,000 h	57,000 h	66,000 h	>80,000 h	>80,000 h
	90 °C	22,000 h	25,000 h	47,000 h	54,000 h	76,000 h	>80,000 h
	95 °C	18,000 h	20,000 h	39,000 h	43,000 h	62,000 h	70,000 h
500 mA	45 °C	37,000 h	42,000 h	79,000 h	>80,000 h	>80,000 h	>80,000 h
	50 °C	36,000 h	41,000 h	77,000 h	>80,000 h	>80,000 h	>80,000 h
	55 °C	35,000 h	40,000 h	76,000 h	>80,000 h	>80,000 h	>80,000 h
	60 °C	35,000 h	39,000 h	74,000 h	>80,000 h	>80,000 h	>80,000 h
	65 °C	34,000 h	39,000 h	72,000 h	>80,000 h	>80,000 h	>80,000 h
	70 °C	33,000 h	38,000 h	71,000 h	>80,000 h	>80,000 h	>80,000 h
	75 °C	32,000 h	37,000 h	69,000 h	>80,000 h	>80,000 h	>80,000 h
	80 °C	31,000 h	36,000 h	68,000 h	79,000 h	>80,000 h	>80,000 h
	85 °C	26,000 h	30,000 h	57,000 h	65,000 h	>80,000 h	>80,000 h
	90 °C	22,000 h	25,000 h	47,000 h	53,000 h	75,000 h	>80,000 h
	95 °C	18,000 h	20,000 h	39,000 h	43,000 h	62,000 h	69,000 h
700 mA	45 °C	37,000 h	42,000 h	79,000 h	>80,000 h	>80,000 h	>80,000 h
	50 °C	36,000 h	41,000 h	77,000 h	>80,000 h	>80,000 h	>80,000 h
	55 °C	35,000 h	40,000 h	75,000 h	>80,000 h	>80,000 h	>80,000 h
	60 °C	34,000 h	39,000 h	74,000 h	>80,000 h	>80,000 h	>80,000 h
	65 °C	33,000 h	38,000 h	72,000 h	>80,000 h	>80,000 h	>80,000 h
	70 °C	33,000 h	37,000 h	70,000 h	>80,000 h	>80,000 h	>80,000 h
	75 °C	32,000 h	37,000 h	69,000 h	>80,000 h	>80,000 h	>80,000 h
	80 °C	31,000 h	36,000 h	67,000 h	79,000 h	>80,000 h	>80,000 h
	85 °C	25,000 h	29,000 h	54,000 h	62,000 h	>80,000 h	>80,000 h
	90 °C	21,000 h	23,000 h	45,000 h	50,000 h	72,000 h	>80,000 h
	95 °C	17,000 h	19,000 h	37,000 h	41,000 h	59,000 h	65,000 h

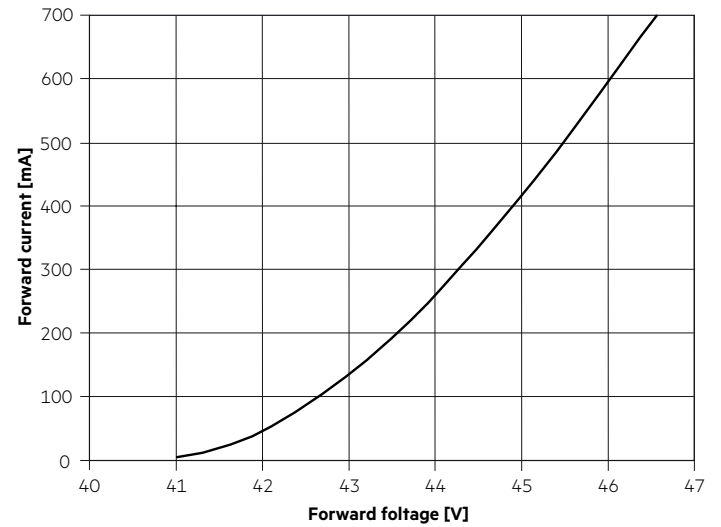
5. Electrical values

5.1 Typ. forward voltage vs. forward current

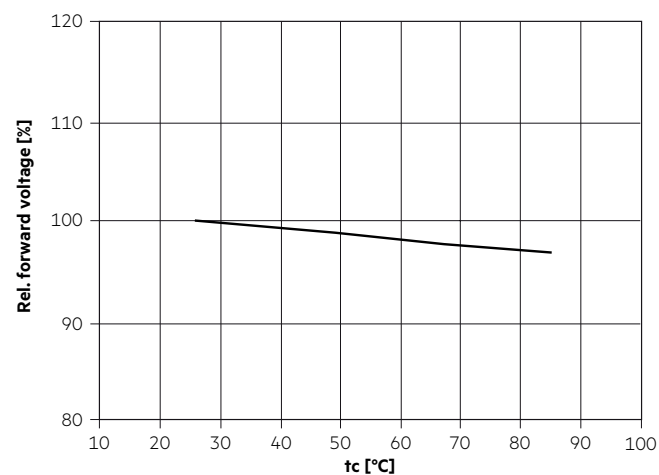
RLE 4x8 2000lm xxx MP ADV2 OTD



RLE 4x16 4000lm xxx MP ADV2 OTD



5.2 Forward voltage vs. tc temperature



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

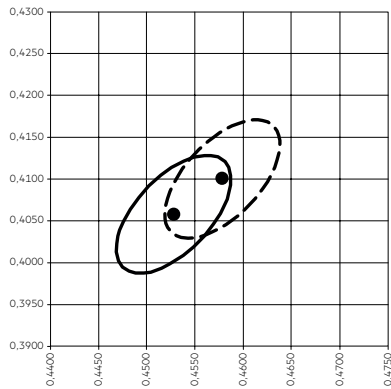
6. Photometric characteristics

6.1 Coordinates and tolerances according to CIE 1931

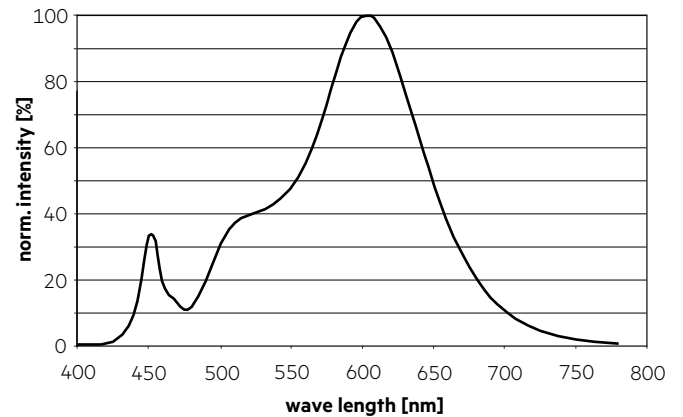
The specified colour coordinates are integral measured by current impulse of 500 mA and a duration of 100 ms.
The ambient temperature of the measurement is $t_a = 75^\circ\text{C}$ steady state.
The measurement tolerance of the colour coordinates are ± 0.01 .

2,700 K

	x0	y0
Centre	0.4578	0.4101

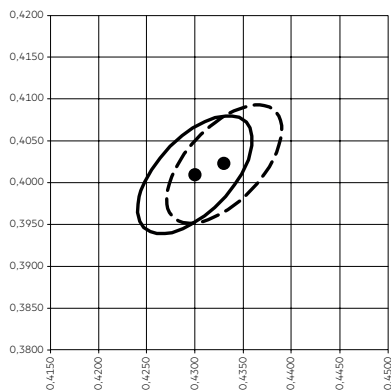


- MacAdam Ellipse: 3SDCM ($t_a = 75^\circ\text{C}$)
- - MacAdam Ellipse: 3SDCM ($t_a = 25^\circ\text{C}$)

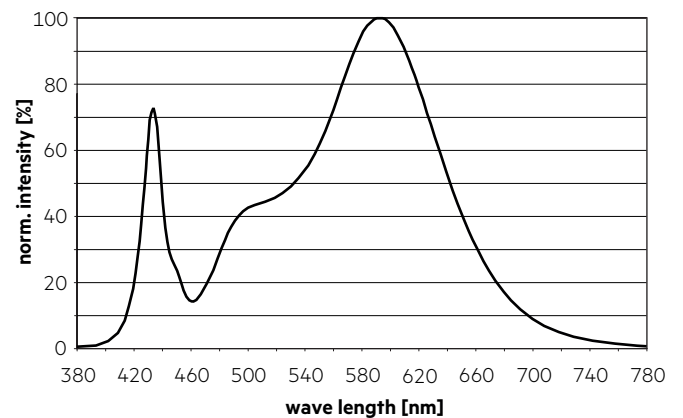


3,000 K

	x0	y0
Centre	0.4300	0.4009

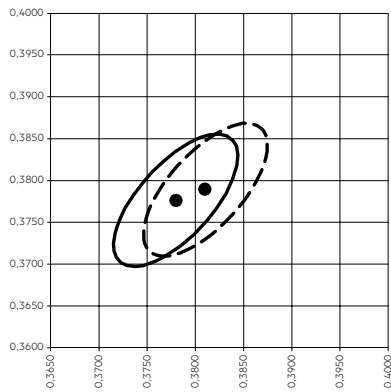


- MacAdam Ellipse: 3SDCM ($t_a = 75^\circ\text{C}$)
- - MacAdam Ellipse: 3SDCM ($t_a = 25^\circ\text{C}$)



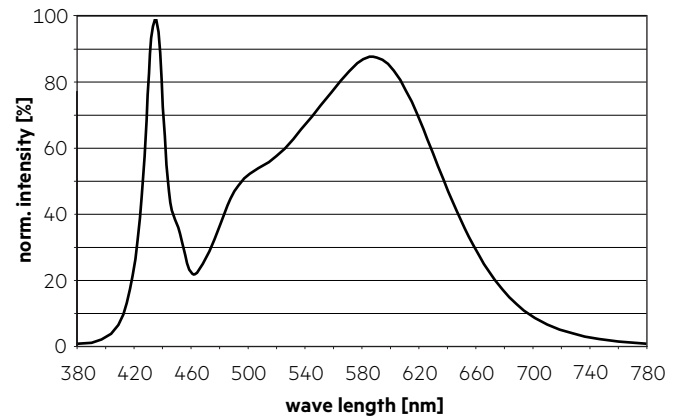
4,000 K, CRI 80

	x0	y0
Centre	0.3780	0.3776



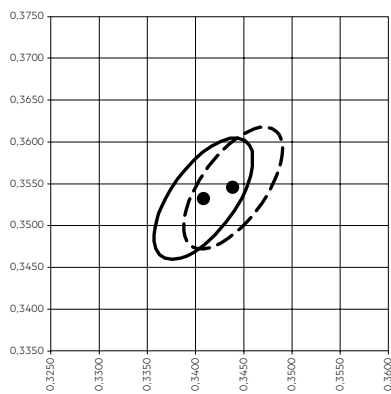
— MacAdam Ellipse: 3SDCM (ta = 75 °C)

- - MacAdam Ellipse: 3SDCM (ta = 25 °C)



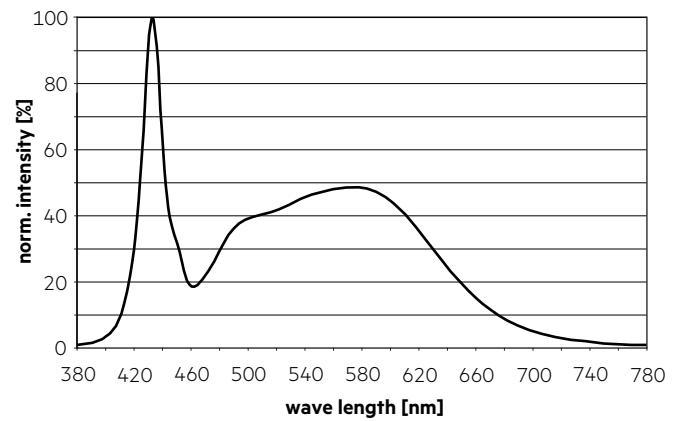
5,000 K

	x0	y0
Centre	0.3409	0.3532



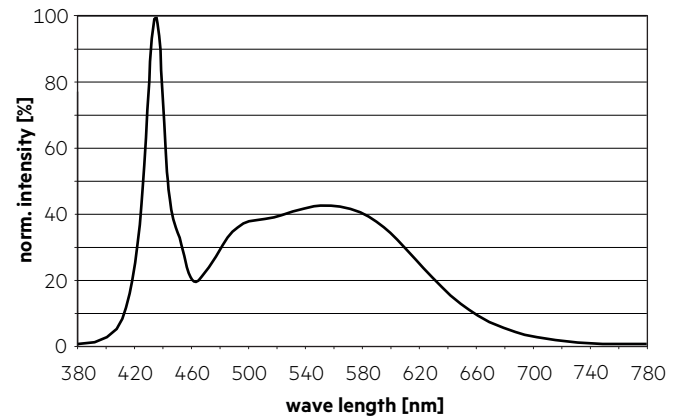
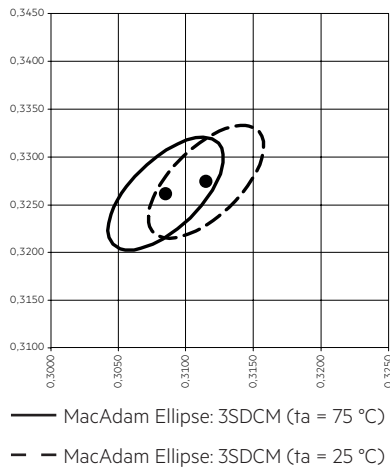
— MacAdam Ellipse: 3SDCM (ta = 75 °C)

- - MacAdam Ellipse: 3SDCM (ta = 25 °C)



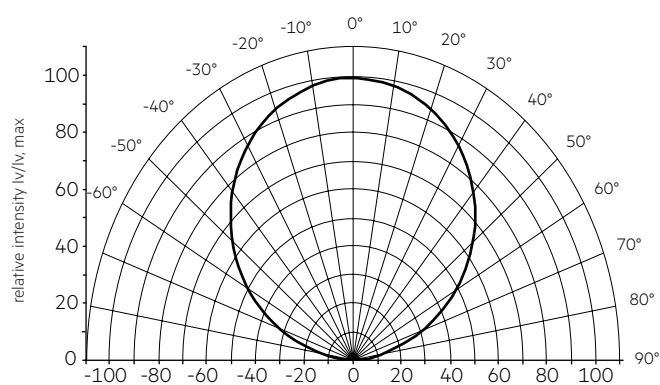
6,500 K

	x0	y0
Centre	0.3085	0.3261



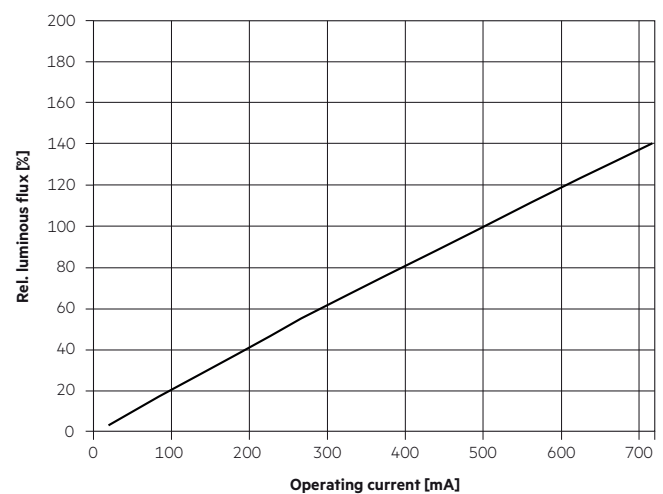
6.2 Light distribution

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



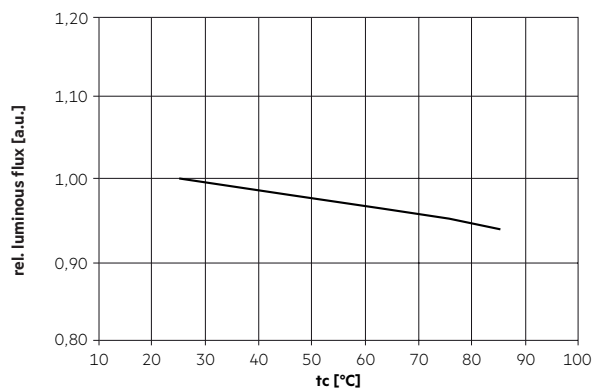
The colour temperature is measured integral over the complete module. The single LED light points can have deviations in the colour coordinates within MacAdam 4.

6.4 Relative luminous flux vs. operating current



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

6.3 Relative luminous flux vs. tc temperature



7. Miscellaneous

7.1 Additional information

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

Guarantee conditions at www.tridonic.com → Services

Life-time declarations are informative and represent no warranty claim.