



Module LLE G2 55mm 2000lm ADV

Modules LLE advanced

Product description

- Ideal for linear and panel lights
- LED system solution with outstanding system efficiency up to 165 lm/W, consisting of linear LED modules and dimmable LED Driver LCA 50W 100-400mA one4all Ip PRE
- Efficiency of the module up to 186 lm/W
- Outstanding colour rendering index CRI > 80
- Small colour tolerance MacAdam 3[®]
- Small luminous flux tolerances
- Colour temperature 3,000, 4,000, 5,000 and 6,500 K
- Perfectly uniform light, even if several LED modules are used together in a line
- Push terminals for quick and simple wiring of LED module to LED module
- Simple installation (e.g. screws)
- Long life-time: 50,000 hours
- 5-year guarantee



Standards, page 7

Colour temperatures and tolerances, page 11

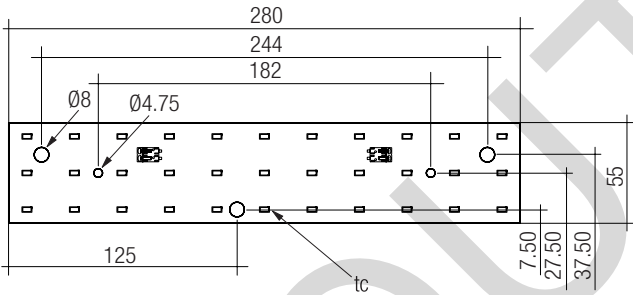




Module LLE G2 55mm 2000lm ADV
Modules LLE advanced

Technical data

Beam characteristic	120°
Ambient temperature range	-40 ... +65 °C
tp rated	65 °C
tc	85 °C
Irated	400 mA
Imax	500 mA
Max. DC forward current	600 mA
Max. permissible LF current ripple	660 mA
Max. permissible peak current	780 mA / max. 10 ms
Max. working voltage for insulation [®]	500 V
Insulation test voltage	2 kV
CTI of the printed circuit board	≥ 600
ESD classification	severity level 4
Risk group (IEC 62471:2008) [®]	RG1
Classification acc. to IEC 62031	Built-in
Type of protection	IP00



Ordering data

Type	Article number	Colour temperature	Packaging carton	Weight per pc.
LLE G2 55x280mm 2000lm 830 ADV	28001749	3,000 K	320 pc(s).	0.047 kg
LLE G2 55x280mm 2000lm 840 ADV	28001750	4,000 K	320 pc(s).	0.047 kg
LLE G2 55x280mm 2000lm 850 ADV	28001751	5,000 K	320 pc(s).	0.047 kg
LLE G2 55x280mm 2000lm 865 ADV	28001752	6,500 K	320 pc(s).	0.047 kg

Specific technical data

Type ^①	Photo-metric code	Typ. luminous flux at tp = 25 °C ^②	Typ. luminous flux at tp = 65 °C ^③	Typ. forward current	Min. forward voltage at tp = 65 °C	Max. forward voltage at tp = 25 °C	Typ. power consumption at tp = 65 °C ^④	Efficacy of the module at tp = 25 °C	Efficacy of the module at tp = 65 °C	Efficacy of the system at tp = 65 °C	Colour rendering index CRI
LLE G2 55x280mm 2000lm ADV – Operating mode HE at 225 mA											
LLE G2 55x280mm 2000lm 830 ADV	830/359	1,220 lm	1,160 lm	225 mA	28.4 V	32.9 V	6.8 W	174 lm/W	169 lm/W	155 lm/W	> 80
LLE G2 55x280mm 2000lm 840 ADV	840/359	1,280 lm	1,210 lm	225 mA	28.4 V	32.9 V	6.8 W	183 lm/W	176 lm/W	162 lm/W	> 80
LLE G2 55x280mm 2000lm 850 ADV	850/359	1,300 lm	1,230 lm	225 mA	28.4 V	32.9 V	6.8 W	186 lm/W	179 lm/W	165 lm/W	> 80
LLE G2 55x280mm 2000lm 865 ADV	865/359	1,280 lm	1,210 lm	225 mA	28.4 V	32.9 V	6.8 W	184 lm/W	176 lm/W	162 lm/W	> 80
LLE G2 55x280mm 2000lm ADV – Operating mode HE at 275 mA											
LLE G2 55x280mm 2000lm 830 ADV	830/359	1,480 lm	1,400 lm	275 mA	28.8 V	33.3 V	8.5 W	171 lm/W	165 lm/W	152 lm/W	> 80
LLE G2 55x280mm 2000lm 840 ADV	840/359	1,540 lm	1,470 lm	275 mA	28.8 V	33.3 V	8.5 W	179 lm/W	172 lm/W	158 lm/W	> 80
LLE G2 55x280mm 2000lm 850 ADV	850/359	1,580 lm	1,490 lm	275 mA	28.8 V	33.3 V	8.5 W	183 lm/W	175 lm/W	161 lm/W	> 80
LLE G2 55x280mm 2000lm 865 ADV	865/359	1,550 lm	1,470 lm	275 mA	28.8 V	33.3 V	8.5 W	180 lm/W	173 lm/W	159 lm/W	> 80
LLE G2 55x280mm 2000lm ADV – Operating mode NM at 300 mA											
LLE G2 55x280mm 2000lm 830 ADV	830/359	1,600 lm	1,530 lm	300 mA	29.0 V	33.5 V	9.3 W	170 lm/W	164 lm/W	151 lm/W	> 80
LLE G2 55x280mm 2000lm 840 ADV	840/359	1,680 lm	1,590 lm	300 mA	29.0 V	33.5 V	9.3 W	178 lm/W	171 lm/W	157 lm/W	> 80
LLE G2 55x280mm 2000lm 850 ADV	850/359	1,710 lm	1,620 lm	300 mA	29.0 V	33.5 V	9.3 W	181 lm/W	174 lm/W	160 lm/W	> 80
LLE G2 55x280mm 2000lm 865 ADV	865/359	1,670 lm	1,590 lm	300 mA	29.0 V	33.5 V	9.3 W	179 lm/W	171 lm/W	157 lm/W	> 80
LLE G2 55x280mm 2000lm ADV – Operating mode NM at 325 mA											
LLE G2 55x280mm 2000lm 830 ADV	830/359	1,720 lm	1,640 lm	325 mA	29.2 V	33.7 V	10.1 W	167 lm/W	162 lm/W	149 lm/W	> 80
LLE G2 55x280mm 2000lm 840 ADV	840/359	1,810 lm	1,720 lm	325 mA	29.2 V	33.7 V	10.1 W	176 lm/W	170 lm/W	156 lm/W	> 80
LLE G2 55x280mm 2000lm 850 ADV	850/359	1,840 lm	1,740 lm	325 mA	29.2 V	33.7 V	10.1 W	178 lm/W	172 lm/W	158 lm/W	> 80
LLE G2 55x280mm 2000lm 865 ADV	865/359	1,820 lm	1,720 lm	325 mA	29.2 V	33.7 V	10.1 W	177 lm/W	170 lm/W	156 lm/W	> 80
LLE G2 55x280mm 2000lm ADV – Operating mode NM at 350 mA											
LLE G2 55x280mm 2000lm 830 ADV	830/359	1,850 lm	1,760 lm	350 mA	29.4 V	33.9 V	11.0 W	166 lm/W	160 lm/W	147 lm/W	> 80
LLE G2 55x280mm 2000lm 840 ADV	840/359	1,940 lm	1,840 lm	350 mA	29.4 V	33.9 V	11.0 W	174 lm/W	167 lm/W	154 lm/W	> 80
LLE G2 55x280mm 2000lm 850 ADV	850/359	1,970 lm	1,870 lm	350 mA	29.4 V	33.9 V	11.0 W	177 lm/W	170 lm/W	156 lm/W	> 80
LLE G2 55x280mm 2000lm 865 ADV	865/359	1,950 lm	1,840 lm	350 mA	29.4 V	33.9 V	11.0 W	175 lm/W	167 lm/W	154 lm/W	> 80
LLE G2 55x280mm 2000lm ADV – Operating mode HO at 400 mA											
LLE G2 55x280mm 2000lm 830 ADV	830/359	2,060 lm	1,960 lm	400 mA	29.7 V	34.2 V	12.7 W	160 lm/W	154 lm/W	142 lm/W	> 80
LLE G2 55x280mm 2000lm 840 ADV	840/359	2,170 lm	2,060 lm	400 mA	29.7 V	34.2 V	12.7 W	168 lm/W	162 lm/W	149 lm/W	> 80
LLE G2 55x280mm 2000lm 850 ADV	850/359	2,200 lm	2,080 lm	400 mA	29.7 V	34.2 V	12.7 W	171 lm/W	164 lm/W	151 lm/W	> 80
LLE G2 55x280mm 2000lm 865 ADV	865/359	2,190 lm	2,060 lm	400 mA	29.7 V	34.2 V	12.7 W	170 lm/W	162 lm/W	149 lm/W	> 80
LLE G2 55x280mm 2000lm ADV – Operating mode HO at 450 mA											
LLE G2 55x280mm 2000lm 830 ADV	830/359	2,300 lm	2,190 lm	450 mA	30.0 V	34.6 V	14.4 W	157 lm/W	152 lm/W	140 lm/W	> 80
LLE G2 55x280mm 2000lm 840 ADV	840/359	2,400 lm	2,280 lm	450 mA	30.0 V	34.6 V	14.4 W	165 lm/W	160 lm/W	147 lm/W	> 80
LLE G2 55x280mm 2000lm 850 ADV	850/359	2,450 lm	2,320 lm	450 mA	30.0 V	34.6 V	14.4 W	168 lm/W	161 lm/W	148 lm/W	> 80
LLE G2 55x280mm 2000lm 865 ADV	865/359	2,420 lm	2,280 lm	450 mA	30.0 V	34.6 V	14.4 W	165 lm/W	158 lm/W	145 lm/W	> 80
LLE G2 55x280mm 2000lm ADV – Operating mode HO at 500 mA											
LLE G2 55x280mm 2000lm 830 ADV	830/359	2,500 lm	2,380 lm	500 mA	30.4 V	34.9 V	16.2 W	152 lm/W	147 lm/W	135 lm/W	> 80
LLE G2 55x280mm 2000lm 840 ADV	840/359	2,620 lm	2,490 lm	500 mA	30.4 V	34.9 V	16.2 W	160 lm/W	154 lm/W	142 lm/W	> 80
LLE G2 55x280mm 2000lm 850 ADV	850/359	2,670 lm	2,530 lm	500 mA	30.4 V	34.9 V	16.2 W	163 lm/W	156 lm/W	144 lm/W	> 80
LLE G2 55x280mm 2000lm 865 ADV	865/359	2,630 lm	2,490 lm	500 mA	30.4 V	34.9 V	16.2 W	161 lm/W	154 lm/W	142 lm/W	> 80

^① Integral measurement over the complete module.

^② If mounted with M4 screws with 7 mm head diameter.

^③ Measured at operating mode HO.

^④ HE ... high efficiency, NM ... nominal mode, HO ... high output.

^⑤ Tolerance range for optical and electrical data: ±10 %.

Product description

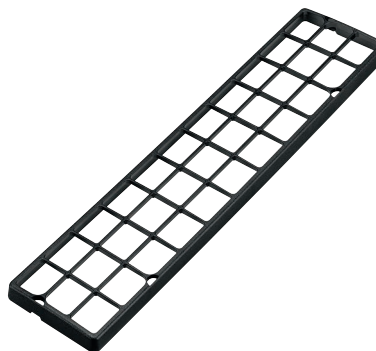
- ACL LENS for LLE 55x280mm
- Available with different beam characteristics
- For SELV applications only
- Easy mounting with M4 screws
- ACL SHADE to reduce UGR
- ACL LENS made of PMMA, ACL SHADE made of ABS
- Max. permissible temperature 80 °C
- Photometric data available on website



ACL LENS 55x280mm 60°

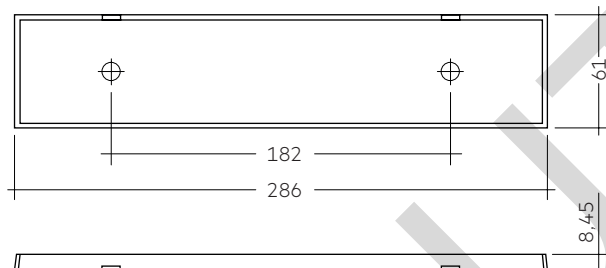


ACL LENS 55x280mm DA25°

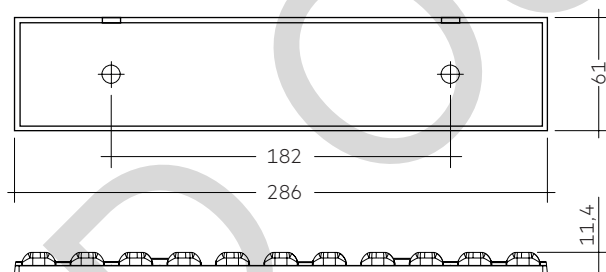


ACL SHADE 55x280mm UGR

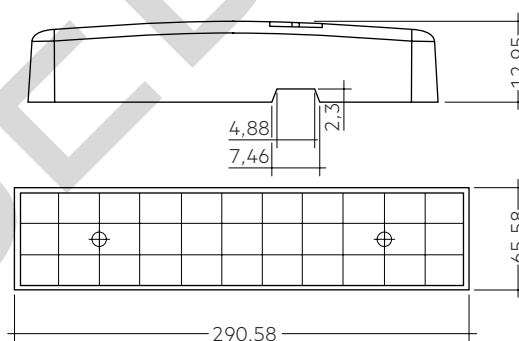
ACL LENS 55x280mm



ACL LENS (28002206, 28002207, 28002208)



ACL LENS (28002209, 28002210)



ACL SHADE (28002211)

Ordering data

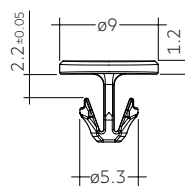
Type	Article number	Beam characteristic	Efficiency	Packaging carton	Weight per pc.
ACL LENS 55x280mm 60°	28002206	60°	91 %	72 pc(s).	0.088 kg
ACL LENS 55x280mm 90°	28002207	90°	90 %	72 pc(s).	0.092 kg
ACL LENS 55x280mm 90x45°	28002208	90x45°	90 %	72 pc(s).	0.091 kg
ACL LENS 55x280mm DA25°	28002209	double asymmetric 25°	94 %	60 pc(s).	0.072 kg
ACL LENS 55x280mm A20°	28002210	asymmetric 20°	93 %	60 pc(s).	0.058 kg
ACL SHADE 55x280mm UGR	28002211	UGR improving	–	60 pc(s).	0.027 kg

Product description

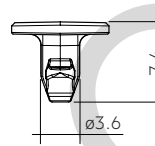
- Clip for fixation of LED modules with 4.3 mm holes
- Fast snap on mounting (sheet thickness 0.5 – 1.0 mm for PUSH-FIX and 1 – 2 mm for PUSH-FIX Long)
- For drilling hole 4 mm
- Clip made of Polycarbonat



ACL CLIP 4.3mm PUSH-FIX



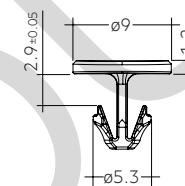
ACL CLIP 4.3mm PUSH-FIX



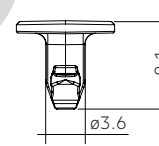
ACL CLIP 4.3mm PUSH-FIX Long



ACL CLIP 4.3mm PUSH-FIX Long



ACL CLIP 4.3mm PUSH-FIX Long



ACL CLIP 4.3mm PUSH-FIX Long

Ordering data

Type	Article number	Colour	Packaging bag ^①	Weight per pc.
ACL CLIP 4.3mm PUSH-FIX	28001036	White	500 pc(s).	0.001 kg
ACL CLIP 4.3mm PUSH-FIX Long	28002314	Transparent	500 pc(s).	0.001 kg

^① Minimum sales quantity 500 pcs.

1. Standards

IEC 62031
IEC 62471
IEC 61000-4-2

1.1 Photometric code

Key for photometric code, e. g. 830 / 349

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

1.2 Energy classification

Type	Energy classification
LLE G2 55mm ADV	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 LLE a tp temperature of 65 °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 ... +100 °C
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Operation only in non condensing environment.
Humidity during processing of the module should be between 0 to 60 %.

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 LLE module will be greatly reduced or the LLE may be destroyed.

2.4 Heat sink values

LLE G2 55x280mm 2000lm ADV

ta	tp	Forward current	Rth, hs-a	Cooling area
25 °C	65 °C	225 mA		self cooling
25 °C	65 °C	300 mA		self cooling
25 °C	65 °C	400 mA		self cooling
25 °C	65 °C	500 mA		self cooling
35 °C	65 °C	225 mA		self cooling
35 °C	65 °C	300 mA		self cooling
35 °C	65 °C	400 mA		self cooling
35 °C	65 °C	500 mA	3.5 K/W	190 cm²
45 °C	65 °C	225 mA		self cooling
45 °C	65 °C	300 mA		self cooling
45 °C	65 °C	400 mA	3.1 K/W	214 cm²
45 °C	65 °C	500 mA	2.3 K/W	285 cm²
55 °C	65 °C	225 mA	3.1 K/W	214 cm²
55 °C	65 °C	300 mA	2.2 K/W	301 cm²
55 °C	65 °C	400 mA	1.6 K/W	429 cm²
55 °C	65 °C	500 mA	1.2 K/W	571 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

LLE 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 LLE 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



LLE 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.

Wrong polarity can damage the LLE.

With parallel wiring tolerance-related differences in output are possible (thermal stress of the module) and can cause differences in brightness. It is recommended to use modules out of one batch / carton for parallel wiring only.

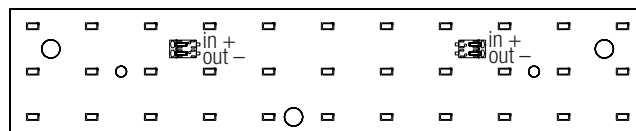
If a wire breaks or a complete module fails then the current passing through the other module increases. This may reduce its life considerably.

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



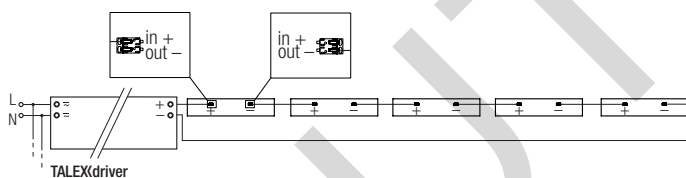
LLE modules are basic isolated up to 500 V (if mounted with M4 screws with 7 mm head diameter) against ground and can be mounted directly on earthed metal parts of the luminaire. If the max. output voltage of the LED Driver (also against earth) is above 500 V, an additional isolation between LED module and heat sink is required (for example by isolated thermal pads) or by a suitable luminaire construction. At voltages > 60 V an additional protection against direct touch (test finger) to the light emitting side of the module has to be guaranteed. This is typically achieved by means of a non removable light distributor over the module.

3.2 Wiring

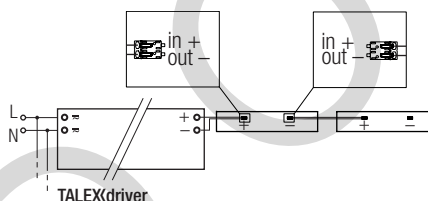


Wiring examples

Serial wiring:



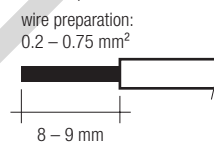
Parallel wiring:



3.3 Wiring type and cross section

The wiring can be in stranded wires or solid with a cross section of 0.2 to 0.75 mm².

For the push-wire connection you have to strip the insulation (8–9 mm).



To remove the wires use a suitable tool (e.g. Microcon release pin) or through twist and pull.

3.4 Mounting instruction



None of the components of the LLE (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 2 M4 screws per module or ACL CLIP 4.3mm.



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

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

Avoid corrosive atmosphere during usage and storage.

3.5 EOS/ESD safety guidelines



The device / module contains components that are sensitive to electrostatic discharge and may only be installed in the factory and on site if appropriate EOS/ESD protection measures have been taken. No special measures need be taken for devices/modules with enclosed casings (contact with the pc board not possible), just normal installation practice. 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 for LLE G4 24mm ADV

LLE G2 55x280mm 2000lm ADV

Forward current	tp						
	tempera- ture	L90 / F10	L90 / F50	L80 / F10	L80 / F50	L70 / F10	L70 / F50
225 mA	55 °C	33,000 h	37,000 h	>60,000 h	>60,000 h	>60,000 h	>60,000 h
	65 °C	26,000 h	29,000 h	52,000 h	59,000 h	>60,000 h	>60,000 h
	75 °C	21,000 h	24,000 h	43,000 h	49,000 h	>60,000 h	>60,000 h
275 mA	55 °C	31,000 h	35,000 h	>60,000 h	>60,000 h	>60,000 h	>60,000 h
	65 °C	26,000 h	29,000 h	51,000 h	58,000 h	>60,000 h	>60,000 h
	75 °C	21,000 h	24,000 h	43,000 h	48,000 h	>60,000 h	>60,000 h
300 mA	55 °C	31,000 h	35,000 h	>60,000 h	>60,000 h	>60,000 h	>60,000 h
	65 °C	25,000 h	29,000 h	51,000 h	57,000 h	>60,000 h	>60,000 h
	75 °C	22,000 h	24,000 h	43,000 h	49,000 h	>60,000 h	>60,000 h
325 mA	55 °C	30,000 h	34,000 h	58,000 h	>60,000 h	>60,000 h	>60,000 h
	65 °C	25,000 h	28,000 h	49,000 h	56,000 h	>60,000 h	>60,000 h
	75 °C	21,000 h	24,000 h	42,000 h	48,000 h	>60,000 h	>60,000 h
350 mA	55 °C	29,000 h	33,000 h	57,000 h	>60,000 h	>60,000 h	>60,000 h
	65 °C	25,000 h	28,000 h	49,000 h	55,000 h	>60,000 h	>60,000 h
	75 °C	21,000 h	24,000 h	42,000 h	48,000 h	>60,000 h	>60,000 h
400 mA	55 °C	29,000 h	33,000 h	56,000 h	>60,000 h	>60,000 h	>60,000 h
	65 °C	24,000 h	28,000 h	48,000 h	55,000 h	>60,000 h	>60,000 h
	75 °C	21,000 h	24,000 h	42,000 h	47,000 h	>60,000 h	>60,000 h
450 mA	55 °C	28,000 h	31,000 h	53,000 h	>60,000 h	>60,000 h	>60,000 h
	65 °C	24,000 h	27,000 h	47,000 h	53,000 h	>60,000 h	>60,000 h
	75 °C	21,000 h	24,000 h	41,000 h	47,000 h	>60,000 h	>60,000 h
500 mA	55 °C	27,000 h	30,000 h	51,000 h	58,000 h	>60,000 h	>60,000 h
	65 °C	23,000 h	27,000 h	46,000 h	52,000 h	>60,000 h	>60,000 h
	75 °C	21,000 h	24,000 h	41,000 h	47,000 h	>60,000 h	>60,000 h

5. Electrical values

5.1 Declaration of electrical parameters

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

I_{max} ... Max. permissible continuous operating current.

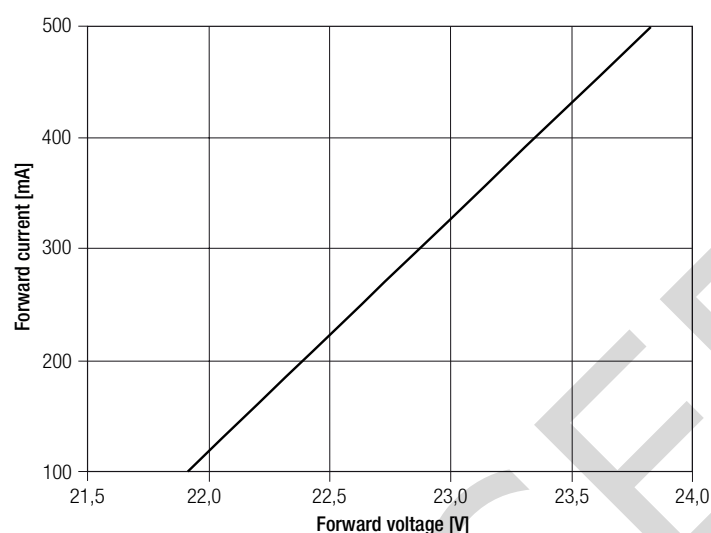
Max. DC forward current ... Max. permissible continuous operating current incl. The tolerances of the LED Driver. LED module may be destroyed if this value is exceeded.

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

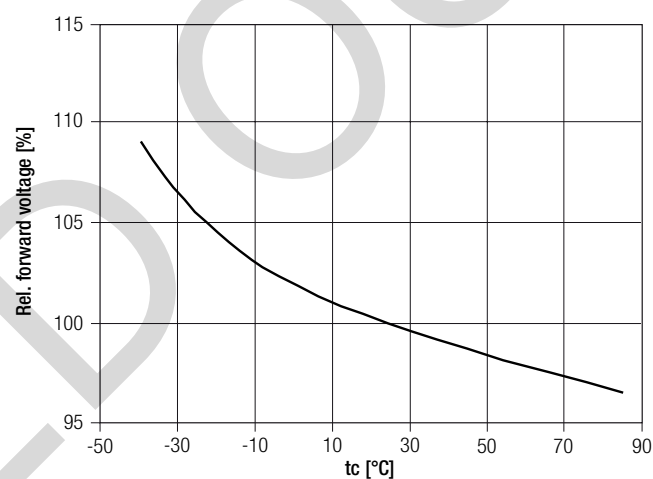
Max. permissible peak current ... The max. output peak current of the LED Driver must not exceed this value.

5.2 Typ. forward voltage vs. forward current

LLE G2 55x280mm 2000lm ADV



5.3 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

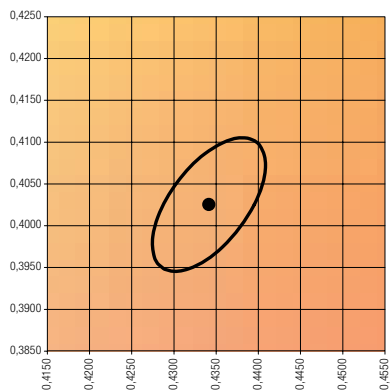
The specified colour coordinates are integral measured by current impulse of 325 mA and a duration of 100 ms.

The ambient temperature of the measurement is $t_a = 25^\circ\text{C}$.

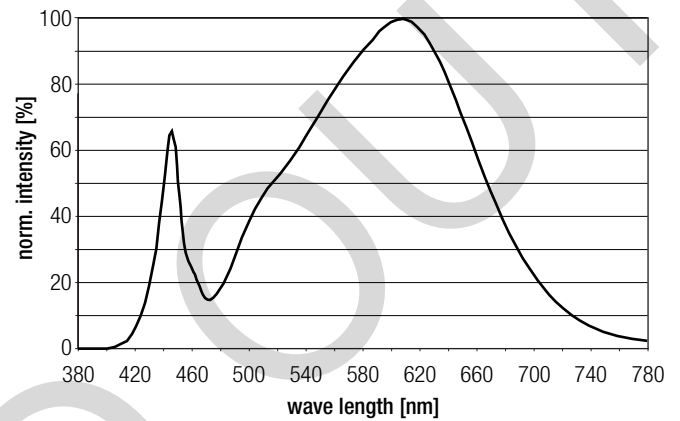
The measurement tolerance of the colour coordinates are ± 0.01 .

3,000 K

	x0	y0
Centre	0.4340	0.4026

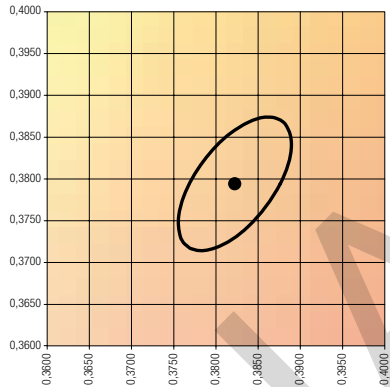


— MacAdam Ellipse: 3SDCM

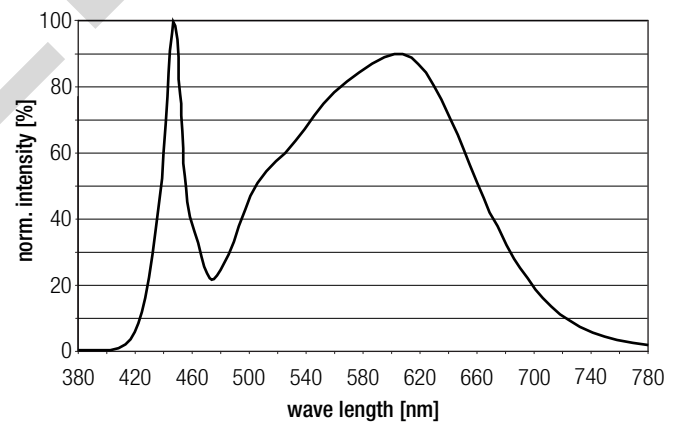


4,000 K

	x0	y0
Mittelpunkt	0.3822	0.3794

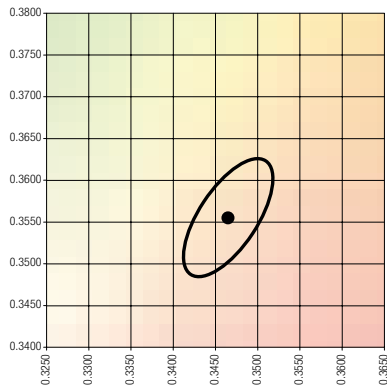


— MacAdam Ellipse: 3SDCM

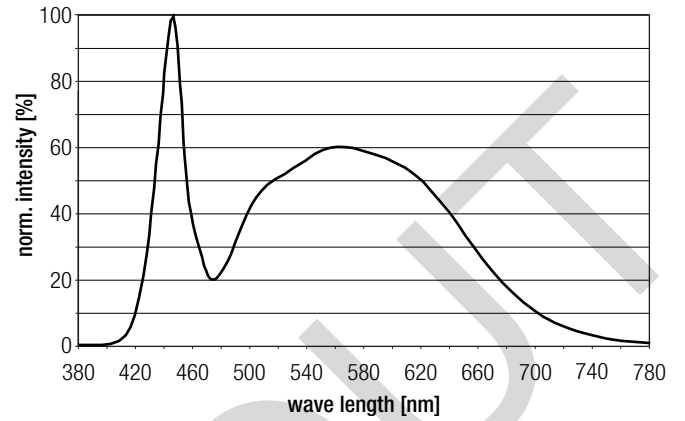


5,000 K

	x0	y0
Mittelpunkt	0.3447	0.3547

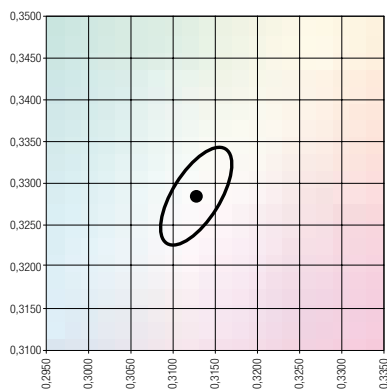


— MacAdam Ellipse: 3SDCM

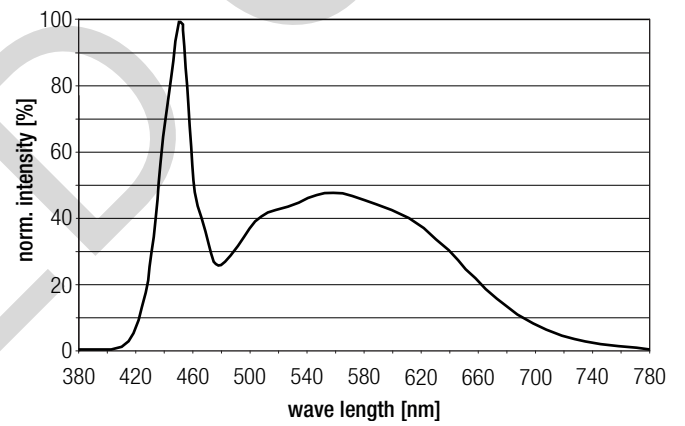


6,500 K

	x0	y0
Mittelpunkt	0.3126	0.3280

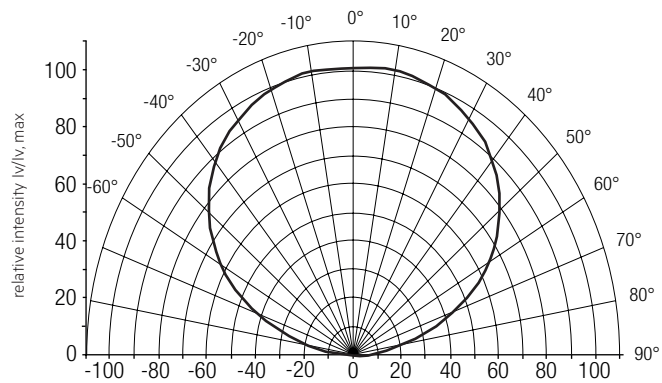


— MacAdam Ellipse: 3SDCM



6.2 Light distribution

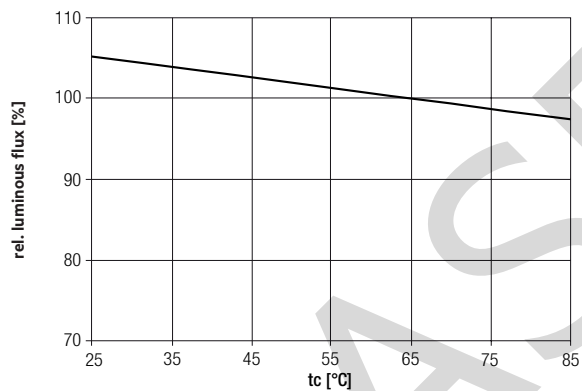
The optical design of the LLE product line ensures optimum homogeneity for the light distribution.



The colour temperature is measured integral over the complete module. The single LED light points can have deviations in the colour coordinates within MacAdam 3.

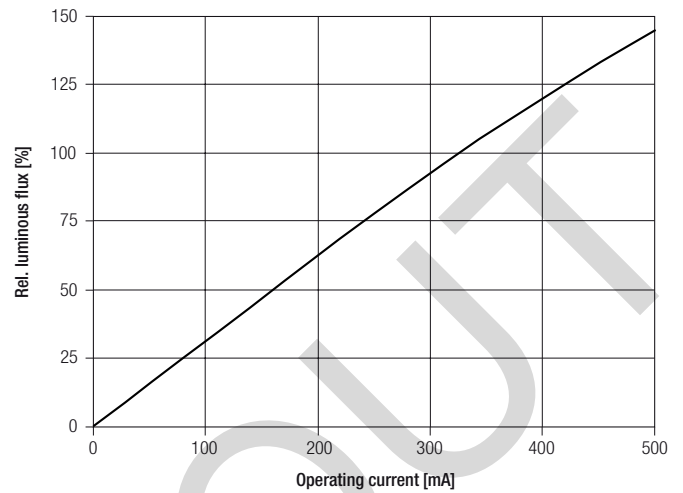
To ensure an ideal mixture of colours and a homogeneous light distribution a suitable optic (e. g. PMMA diffuser) and a sufficient spacing between module and optic (typ. 4 cm) should be used.

6.3 Relative luminous flux vs. tc temperature



6.4 Relative luminous flux vs. operating current

LLE G2 55x280mm 2000lm ADV



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

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