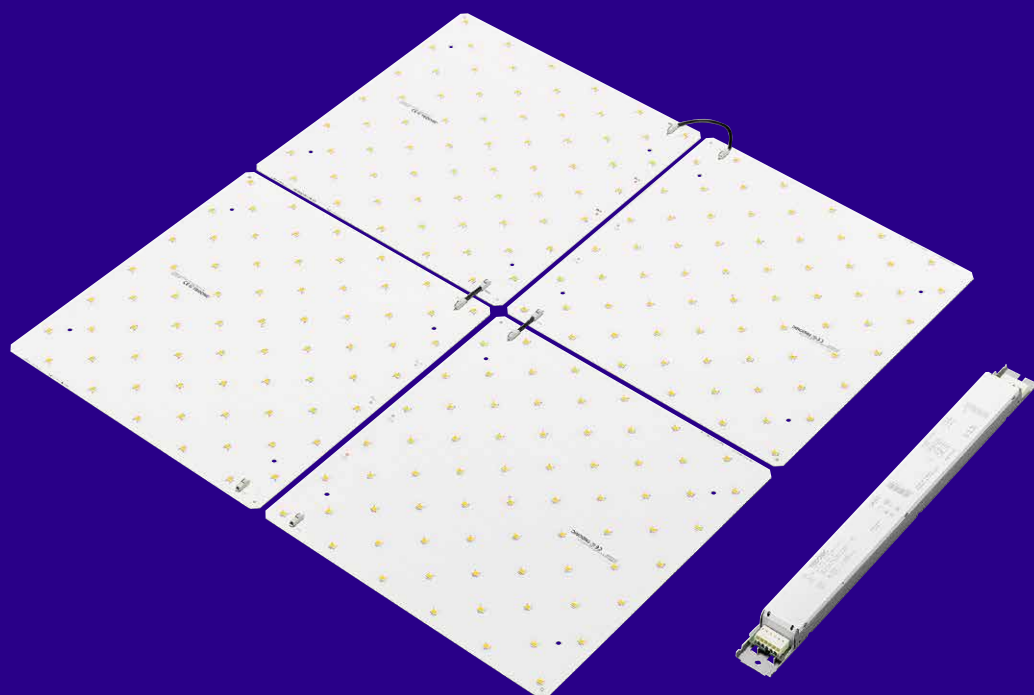


LED-Module

Module QLE

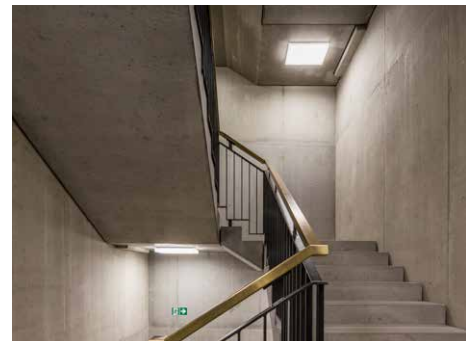
For Linear and Wide Area



TRIDONIC

Applications and Product Portfolio

A square deal – great flexibility and even greater efficiency



Product Portfolio

ESSENCE

Cost-effective

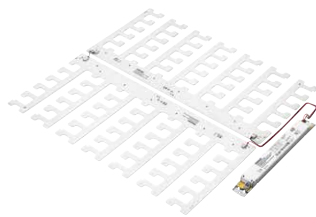
Static White in 3,000 K, 4,000 K, 5,000 K and 6,500 K with a CRI > 80



ADVANCED-SE

Best value for money

Static White in 3,000 K, 4,000 K, 5,000 K and 6,500 K with a CRI > 80



ADVANCED

Simplicity itself

Static White in 3,000 K, 4,000 K and 5,000 K with a CRI > 80



PREMIUM

Convenient

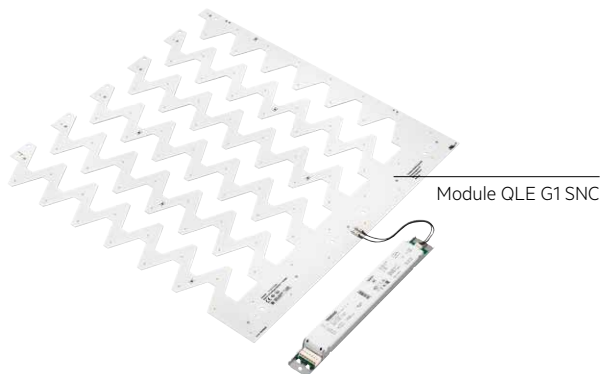
Tunable White 2,700 K – 6,500 K with a CRI > 80 or > 90



The square design is an ideal basis for equipping linear or square fixtures.

The extremely efficient generation of QLE modules achieve a luminous efficacy of up to 181lm/W. Engine QLE combines well with its linear Engine LLE sister products. It is therefore very easy to implement new design concepts. Up to six LED modules can be operated with just one LED Driver.

ESSENCE



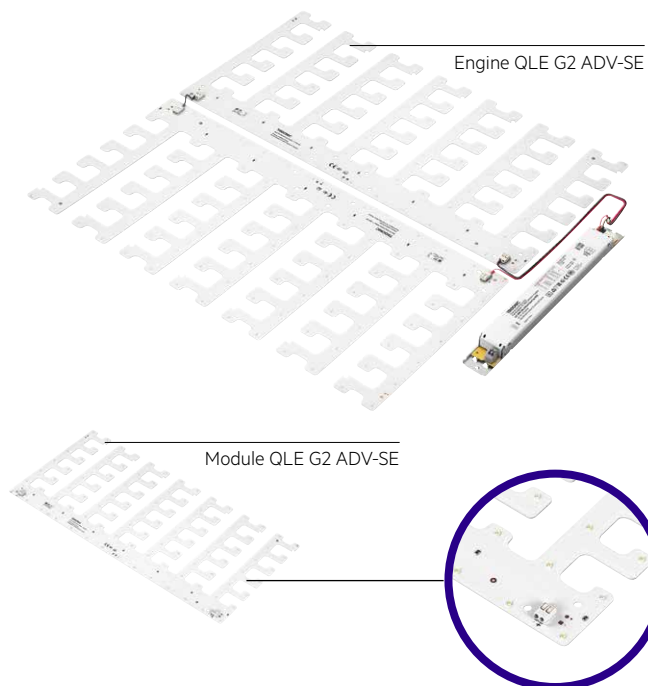
At a glance: Module QLE G1 ESSENCE

- Module efficacy of up to 140 lm/W (tp = 45°C)
- Small colour tolerance MacAdam 4
- Time saving: less mounting/wiring effort as modules are rectangular
 - only one module mounted in a 600 x 600 mm luminaire
- Self cooling (no additional heat sink required)
- Push terminals for quick and simple wiring of LED module
- Good homogeneity and illumination with 5,000 lm
- Ideal for linear and panel lights
- Long lifetime: 50,000 hours
- 5-year guarantee

Module	Colour-temperature (K)	Mac Adam	Luminous flux ¹⁾ (lm)	CRI	Typ. power consumption ²⁾ (W)	Module efficacy ²⁾ tp = 45°C (lm/W)	Size (mm)	Order No.
Non SELV								
QLE G1 471x462mm 5000lm 830 HV SNC	3,000	SDCM 4	4,860	> 80	37.4	up to 130	471 x 462	89602704 ²⁾
QLE G1 471x462mm 5000lm 840 HV SNC	4,000	SDCM 4	4,860	> 80	37.4	up to 130	471 x 462	89602705
QLE G1 471x462mm 5000lm 850 HV SNC	5,000	SDCM 4	4,940	> 80	37.4	up to 133	471 x 462	89602706 ²⁾
QLE G1 471x462mm 5000lm 865 HV SNC	6,500	SDCM 4	4,940	> 80	37.4	up to 133	471 x 462	89602707 ²⁾
SELV								
QLE G1 471x462mm 5000lm 830 LV SNC	3,000	SDCM 4	4,860	> 80	37.4	up to 130	471 x 462	89602708 ²⁾
QLE G1 471x462mm 5000lm 840 LV SNC	4,000	SDCM 4	4,860	> 80	37.4	up to 130	471 x 462	89602709 ²⁾
QLE G1 471x462mm 5000lm 850 LV SNC	5,000	SDCM 4	4,940	> 80	37.4	up to 133	471 x 462	89602710 ²⁾
QLE G1 471x462mm 5000lm 865 LV SNC	6,500	SDCM 4	4,940	> 80	37.4	up to 133	471 x 462	89602711 ²⁾

¹⁾Tolerance range for optical and electrical data: ±10 %. ²⁾Purchase to order

ADVANCED-SE



At a glance: Module QLE G1 ADVANCED-SE

- Module efficacy of up to 167 lm/W (HE at 300 mA, $t_p = 45^\circ\text{C}$)
- Small colour tolerance MacAdam 3
- Simple installation with ACL Clip
- Push terminals for quick and simple wiring of LED module to LED module
- Self cooling (no additional heat sink required)
- Excellent homogeneity and illumination
- Ideal for linear and panel lights
- Long lifetime: 50,000 hours
- 5-year guarantee

NEW	Module	Colour-temperature (K)	Mac Adam	Luminous flux ¹⁾ (lm)	CRI	Typ. power consumption ¹⁾ (W)	Module efficacy ¹⁾ $t_p = 45^\circ\text{C}$ (lm/W)	Size (mm)	Order No.
	QLE G2 520x246mm 2500lm 830 ADV-SE	3,000	SDCM 3	2,200	> 80	14.4	up to 152	520 x 246	89602961
	QLE G2 520x246mm 2500lm 840 ADV-SE	4,000	SDCM 3	2,370	> 80	14.4	up to 164	520 x 246	89602962
	QLE G2 520x246mm 2500lm 850 ADV-SE	5,000	SDCM 3	2,370	> 80	14.4	up to 164	520 x 246	89602963
	QLE G2 520x246mm 2500lm 865 ADV-SE	6,500	SDCM 3	2,340	> 80	14.4	up to 162	520 x 246	89602964

¹⁾Tolerance range for optical and electrical data: $\pm 10\%$, 350 mA operation

ADVANCED-SE



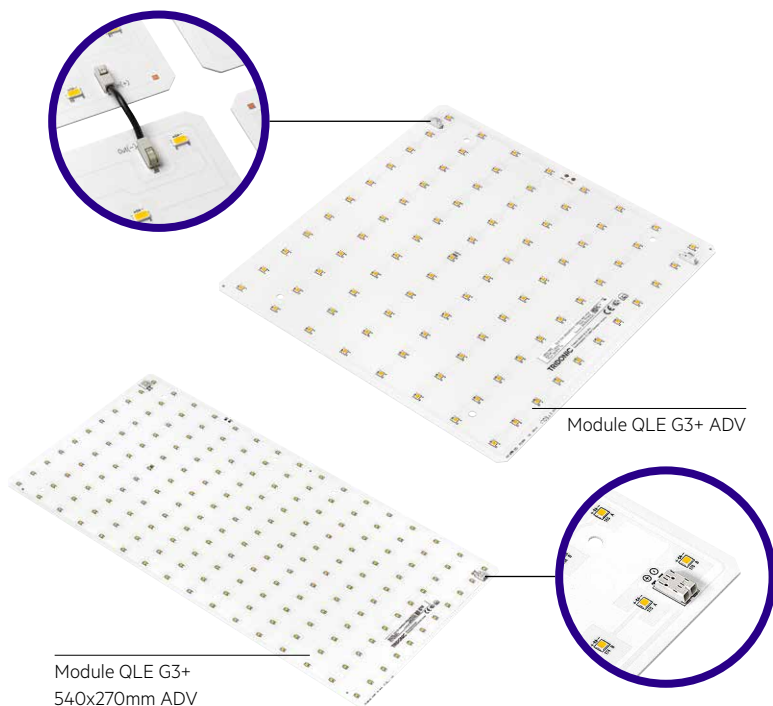
At a glance: Module QLE G2 ADVANCED-SE

- Module efficacy of up to 155 lm/W (HE at 825 mA, $t_p = 45^\circ\text{C}$)
- Small colour tolerance MacAdam 3
- Self cooling (no additional heat sink required)
- 121 LED packages for excellent homogeneity and illumination
- Ideal for panel and louvre luminaires, cost-effective replacement for 4 x 14 W (18 W) T5/T8 lamps
- Long lifetime: 50,000 hours
- 5-year guarantee

Module	Colour-temperature (K)	Mac Adam	Luminous flux ¹⁾ (lm)	CRI	Typ. power consumption ¹⁾ (W)	Module efficacy ¹⁾ $t_p = 45^\circ\text{C}$ (lm/W)	Size (mm)	Order No.
QLE G2 380x380mm 5000lm 840 ADV-SE	3,000	SDCM 3	4,600	> 80	34.1	up to 135	380 x 380	89602156
QLE G2 380x380mm 5000lm 840 ADV-SE	4,000	SDCM 3	5,020	> 80	34.1	up to 147	380 x 380	89602157

¹⁾Tolerance range for optical and electrical data: $\pm 10\%$, 1,050 mA operation

ADVANCED



At a glance: Module QLE G3+ ADVANCED

- LED system solution with outstanding system efficacy up to 162lm/W
- High module efficacy of up to 180lm/W (HE 200 mA (squared module), HE 400 mA (rectangular), $t_p = 45^\circ\text{C}$)
- Small colour tolerance MacAdam 3
- Long lifetime: 50,000 hours
- 5-year guarantee

Module	Colour-temperature (K)	Mac Adam	Typical luminous flux ¹⁾ (lm)	CRI	Typ. power consumption ²⁾ (W)	Module efficacy ³⁾ $t_p = 45^\circ\text{C}$ (lm/W)	Size (mm)	Order No.
QLE G3+ 250x250mm 1250lm 830 ADV	3,000	SDCM 3	1,240	> 80	7.5	up to 166	250 x 250	28001991
QLE G3+ 250x250mm 1250lm 840 ADV	4,000	SDCM 3	1,320	> 80	7.5	up to 177	250 x 250	28001992
QLE G3+ 250x250mm 1250lm 850 ADV	5,000	SDCM 3	1,320	> 80	7.5	up to 176	250 x 250	28001993
QLE G3+ 270x270mm 1250lm 830 ADV	3,000	SDCM 3	1,240	> 80	7.5	up to 166	270 x 270	28001994
QLE G3+ 270x270mm 1250lm 840 ADV	4,000	SDCM 3	1,320	> 80	7.5	up to 177	270 x 270	28001995
QLE G3+ 270x270mm 1250lm 850 ADV	5,000	SDCM 3	1,320	> 80	7.5	up to 176	270 x 270	28001996
QLE G3+ 540x270mm 2500lm 830 ADV	3,000	SDCM 3	2,480	> 80	15	up to 166	540 x 270	28001997
QLE G3+ 540x270mm 2500lm 840 ADV	4,000	SDCM 3	2,640	> 80	15	up to 177	540 x 270	28001998

¹⁾Tolerance range for optical and electrical data: ±10 %, NM 250 mA (250 mm, 270 mm) and 500 mA (540 mm)

ADVANCED

Module QLE Shallow ADVANCED

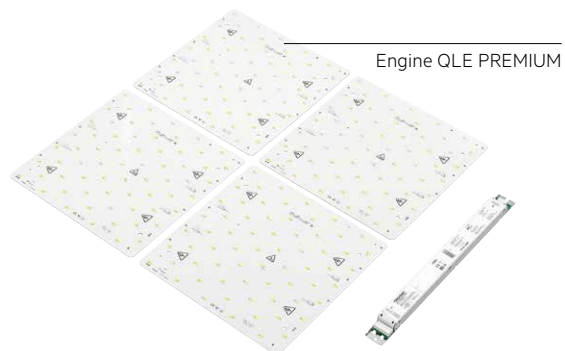


At a glance: Module QLE ADVANCED

- For square and rectangular ultra flat wall-mounted, ceiling-mounted and suspended luminaires
- Backlighting depth of 30 mm can be realized
- LED system solution with outstanding system efficacy up to 169 lm/W
- High module efficacy of up to 184 lm/W (HE 250 mA, tp = 45°C, System solution with ADV, EXC and PRE drivers (C and Ip)
- Small colour tolerance MacAdam 3
- Long lifetime: 50,000 hours
- 5-year guarantee

Module	Colour-temperature (K)	Mac Adam	Typical luminous flux ¹⁾ (lm)	CRI	Typ. power consumption ¹⁾ (W)	Module efficacy ¹⁾ tp = 45°C (lm/W)	Size (mm)	Order No.
QLE Shallow G1 255x255mm 1950lm 830 ADV	3,000	SDCM 3	1,870	> 80	11	up to 170	255 x 255	89602493
QLE Shallow G1 255x255mm 1950lm 840 ADV	4,000	SDCM 3	1,940	> 80	11	up to 176	255 x 255	89602494

¹⁾Tolerance range for optical and electrical data: ±10 %, 400 mA operation



At a glance: Engine QLE PREMIUM

- Quadratic Tunable White system with adjustable colour temperature between 3,000 K and 6,000 K, Generation 2 between 2,700K and 6,500K at constant luminous flux
- Available in CRI > 80 and CRI > 90
- Precalibrated set for optimum quality of light and colour consistency (SDCM 3), consisting of an LED driver and 2–6 quadratic LED modules
- LED modules are also available individually
- Dimming range of 100–10% with no change in colour temperature, Generation 2 with 100–3%
- Low-profile LED drivers with digital interface (DALI DT8, DSI, switchDIM, colourSWITCH)
- Long lifetime of 50,000 hours with 5-year system guarantee

Tunable White systems of Tridonic gives you the option of setting the colour temperature of white light to any value between 3,000 K and 6,000 K, Generation 2 from 2.700 K to 6.500 K. This function is essential for contemporary biologically effective lighting solutions which aim to simulate natural light indoors.

The light in daylight quality promotes a feeling of well-being and productivity for people who have to spend many hours a day in artificial light. This explains the high importance attached to lighting concepts involving Tunable White and optimum light quality in offices, education establishments and health care facilities.

The Engine Tunable White Wide Area Kit is precalibrated at the factory and offered in sets comprising a converter and 2 to 6 LED modules. Constant luminous flux over the entire adjustable colour temperature range is particularly important for professional room planning. Engine Tunable White opens up a really interesting area of application, not least thanks to its reproducible and consistent colour rendering.

In addition, the Tunable White modules are also available individually and can therefore be used with LED drivers from our driver portfolio in any combination. Use Drivers from the PREMIUM series to control your Tunable White solution via DT8.

PREMIUM

Engine, Module QLE Premium CRI > 80

Typ	Colour-temperature (K)	Typ. luminous flux ⁹⁾ (lm)	CRI	Mac Adam	Typ. power consumption ⁹⁾ (W)	System efficacy (lm/W)	Size per module (mm)	Order No.
TW QLE G1 270mm 4x1250lm 830-860 PRE KIT (1 LED Driver + 4 LED Module à 1,250lm)	3,000–6,000 Tunable White	5,120	> 80	SDCM 3	38.7	up to 132	270 x 270	89600647
TW QLE G1 270mm 5x1250lm 830-860 PRE KIT (1 LED Driver + 5 LED Module à 1,250 lm)	3,000–6,000 Tunable White	6,400	> 80	SDCM 3	48.5	up to 132	270 x 270	89602481
TW QLE G1 270mm 6x1250lm 830-860 PRE KIT (1 LED Driver + 6 LED Module à 1,250 lm)	3,000–6,000 Tunable White	7,680	> 80	SDCM 3	57.8	up to 133	270 x 270	89602482

⁹⁾Tolerance range for optical data: ±5 %, Tolerance range for electrical data: ±15 %, tp = 45 °C

Typ	Colour-temperature (K)	Typ. luminous flux ⁹⁾ (lm)	CRI	Mac Adam	Size per module (mm)	Order No.
TW QLE G1 270mm 1250lm 827-865 PRE (LED Modul)	2,700	1,290	> 80	SDCM 3	270 x 270	89600648
	6,500	1,430	> 80	SDCM 3	270 x 270	

⁹⁾Tolerance range for optical data: ±5 %, Tolerance range for electrical data: ±15 %, tp = 45 °C

Engine, Module QLE Premium CRI > 90

Typ	Colour-temperature (K)	Typ. luminous flux ⁹⁾ (lm)	CRI	Mac Adam	Typ. power consumption ⁹⁾ (W)	System efficacy (lm/W)	Size per module (mm)	Order No.
QLE 270mm 4x1250lm 930-960 PRE KIT (1 LED Driver + 4 LED Module à 1,250lm)	3,000–6,000 Tunable White	5,160	> 90	SDCM 3	39	up to 133	270 x 270	89602741
QLE 270mm 5x1250lm 930-960 PRE KIT (1 LED Driver + 5 LED Module à 1,250lm)	3,000–6,000 Tunable White	6,450	> 90	SDCM 3	49	up to 133	270 x 270	89602742
QLE 270mm 6x1250lm 930-960 PRE KIT (1 LED Driver + 6 LED Module à 1,250lm)	3,000–6,000 Tunable White	7,740	> 90	SDCM 3	58	up to 134	270 x 270	89602743

⁹⁾Tolerance range for optical data: ±5 %, Tolerance range for electrical data: ±15 %, tp = 45 °C

Typ	Colour-temperature (K)	Typ. luminous flux ⁹⁾ (lm)	CRI	Mac Adam	Size per module (mm)	Order No.
QLE 270mm 1250lm 927-965 PRE (LED Modul)	2,700	1,240	> 90	SDCM 3	270 x 270	89602740
	6,500	1,350	> 90	SDCM 3	270 x 270	

⁹⁾Tolerance range for optical data: ±5 %, Tolerance range for electrical data: ±15 %, tp = 45 °C

Matching Driver (in each KIT included)

Driver LCAI 75W 250mA TW Ip



Size: 360 x 30 x 21 mm
4–6 QLE Module à 1.250 lm

PREMIUM

Engine, Module QLE Premium CRI > 90

NEW	Typ	Colour-temperature (K)	Typ. luminous flux ¹⁾ (lm)	CRI	Mac Adam	Typ. power consumption ²⁾ (W)	System efficacy (lm/W)	Size per module (mm)	Order No.
	QLE G2 270x270mm 2x1250lm 927-965 LV PRE* (1 LED-Driver 50 W + 2 LED-Module à 1,250lm)	2,700–6,500 Tunable White	2,500	> 90	SDCM 3	19.8	up to 126	270 x 270	89602940
	QLE G2 270x270mm 3x1250lm 927-965 LV PRE* (1 LED-Driver 50 W + 3 LED-Module à 1,250lm)	2,700–6,500 Tunable White	3,750	> 90	SDCM 3	28.4	up to 132	270 x 270	89602941
	QLE G2 270x270mm 4x1250lm 927-965 LV PRE* (1 LED-Driver 50 W + 4 LED-Module à 1,250lm)	2,700–6,500 Tunable White	5,000	> 90	SDCM 3	36.9	up to 135	270 x 270	89602942
	QLE G2 270x270mm 5x1250lm 927-965 LV PRE* (1 LED-Driver 100 W + 5 LED-Module à 1,250lm)	2,700–6,500 Tunable White	6,250	> 90	SDCM 3	46.5	up to 134	270 x 270	89602943
	QLE G2 270x270mm 6x1250lm 927-965 LV PRE* (1 LED-Driver 100 W + 6 LED-Module à 1,250lm)	2,700–6,500 Tunable White	7,500	> 90	SDCM 3	55.1	up to 136	270 x 270	89602944

* Coming in December, Preliminary data ¹⁾Tolerance range for optical data: ±5 %, Tolerance range for electrical data: ±15 %, tp = 45 °C

NEW	Typ	Colour-temperature (K)	Typ. luminous flux ¹⁾ (lm)	CRI	Mac Adam	Typ. power consumption ²⁾ (W)	Module efficacy ³⁾ (lm/W)	Size per module (mm)	Order No.
	TW QLE G2 270x270mm 1250lm 927-965 PRE* (LED Modul)	2,700	1,250	> 90	SDCM 3	8.1	154	270 x 270	89602924
		6,500	1,360	> 90	SDCM 3	8.1	167	270 x 270	

* Coming in December, Preliminary data ¹⁾Tolerance range for optical data: ±5 %, Tolerance range for electrical data: ±15 %, tp = 45 °C

Matching Driver (in each KIT included)

Driver LCA 50W 350–1050mA DT8 Ip PRE	Driver LCA 100W 350–1050mA 2xDT8 Ip PRE
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Size: 360 x 30 x 21 mm
2–4 QLE Module à 1.250 lm



Size: 360 x 40 x 21 mm
5–6 LLE Module à 1.200 lm

Support and advice

From a single source



Engine DLE



Engine CLE



Engine CLE Integrated



Engine LLE-FLEX



Engine SLE



Engine EM ready2apply



Engine LLE



Engine QLE

We will help you to create lighting solutions that are unbeatable in terms of economy and functionality, according to the slogan:
We devote all our energy to your light.

As an international company, Tridonic is represented worldwide by 30 branch offices and partners in 73 countries.



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Light you want to follow.

