LED solutions

Industry

Lighting solutions for industrial applications

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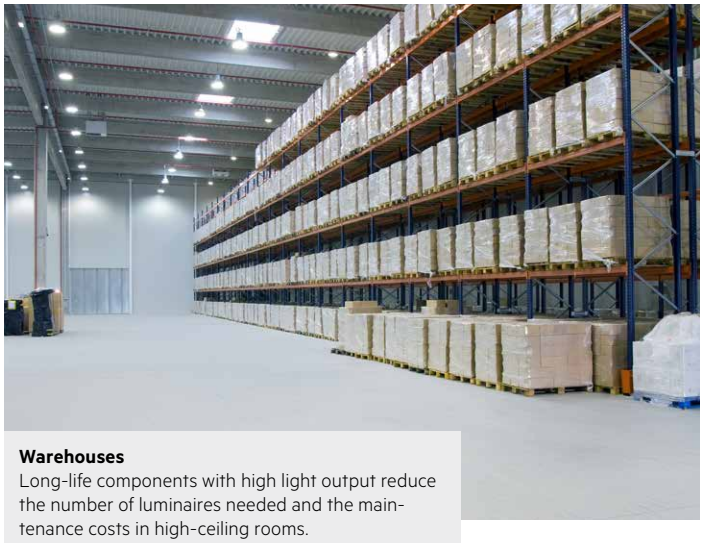
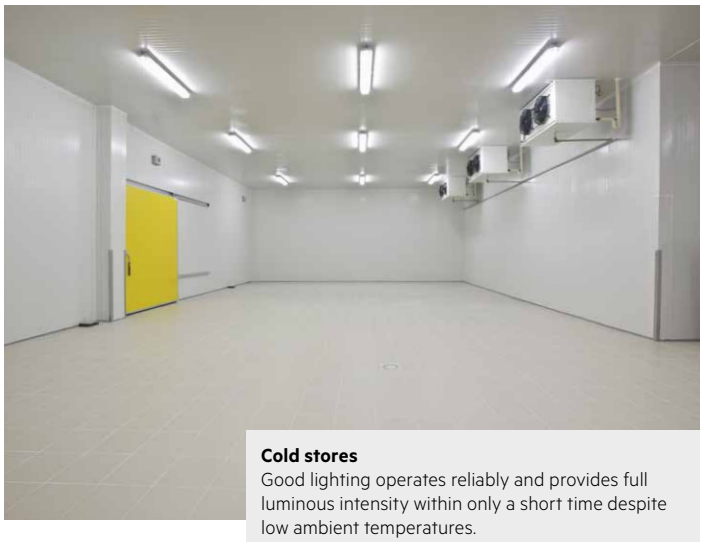
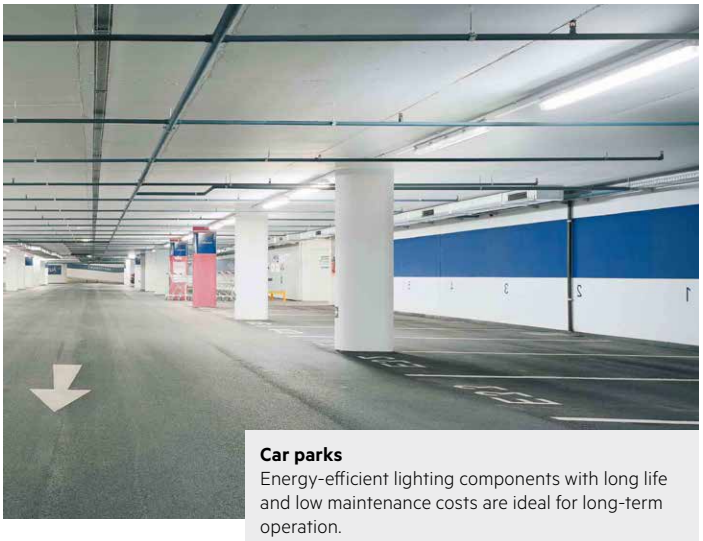


Warehouses
Long-life components with high light output reduce the number of luminaires needed and the maintenance costs in high-ceiling rooms.

Production facilities
High quality of light and high luminous flux increase productivity and also help improve safety and reduce errors.



Cold stores
Good lighting operates reliably and provides full luminous intensity within only a short time despite low ambient temperatures.



Car parks
Energy-efficient lighting components with long life and low maintenance costs are ideal for long-term operation.

Reliable light for every need

Industrial environments place special requirements on lighting systems. Long operating times and critical atmospheres place heavy demands on any lighting system, and maintenance is often associated with major effort and high costs.

For industrial applications, Tridonic combines the benefits of the indoor segment with those of outdoor products. This results in LED solutions with high efficiency, low standby losses and increased dielectric strength for extended temperature ranges. The Tridonic range of products are perfect replacements for fluorescent and HID light sources as they meet all the requirements for industrial lighting.

Your benefits

Energy and cost savings thanks to

- extended temperature ranges
- integrated dimming function
- very low standby power consumption

Ideal colour rendering, high module efficiency, adapted illuminance levels and light colours

- thanks to perfectly matched converter and module systems

The integrated constant light function ensures constant luminous intensity throughout the life of the system

Extreme reliability and reduced maintenance thanks to

- long life-time
- increased dielectric strength (Surge/Burst)
- constant luminous flux throughout the life of the system

Versatile applications thanks to

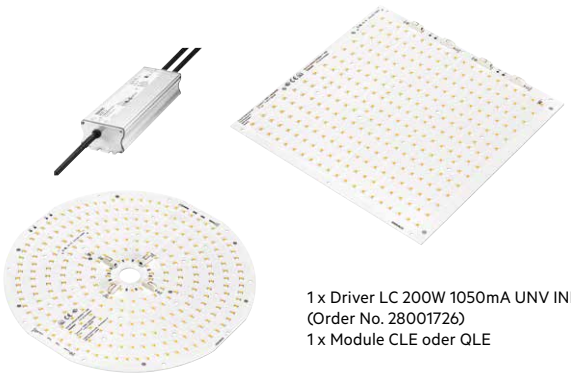
- connections to sensors and light management systems
- integration of the components in existing emergency lighting systems

Tridonic system solutions for industry

Typical system solution for warehouses

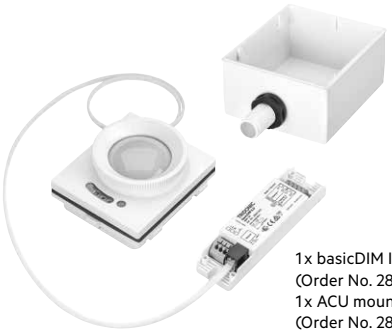
1x Driver LCAI 65 W 150 mA – 400 mA ECO INDUSTRY sl
(Order No. 28000348)
4 x Module LLE high robust

Typical system solution for production facilities



1 x Driver LC 200W 1050mA UNV IND
(Order No. 28001726)
1 x Module CLE oder QLE

High-bay sensor, combinable with system solutions, for industrial applications



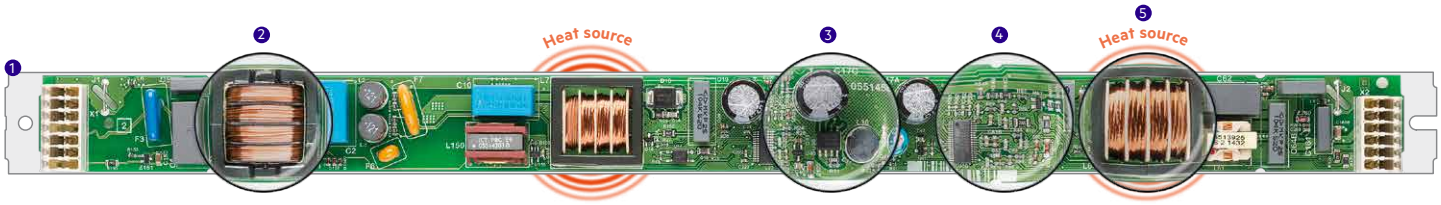
1x basicDIM ILD 16DPI 69f
(Order No. 28001277)
1x ACU mounting box
(Order No. 28001568)

At a glance: basic ILD 16DPI 69f

- For ceiling heights of 8–16 m (8–12 and 12–16 m adjustable)
- With motion detection, daylight control and IR control
- IP65 protection

Driver for industrial applications

Robust design, long life and low error rate



❶ Due to the size of the casing, the temperature of the components is reduced by up to 50 %

❷ Extremely robust input filter to protect against mains transients of up to 4 kV (surge/burst)

❸ Two smoothing capacitors connected in parallel for longer life

❹ Double-sided printed circuit board and therefore better attachment of the components as protection against constant mechanical loads and vibrations

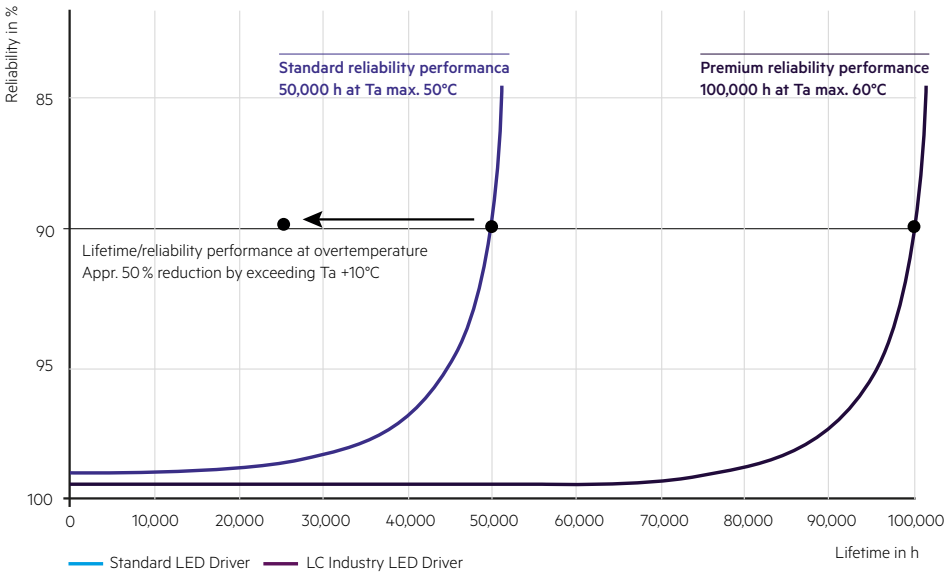
❺ Maximum distance between heat sources and lifetime-critical components

Qualities	Standard performance	Tridonic Industry
Temperature range	–25°C...+50°C	–40°C...+70°C
Dielectric strength (surge/burst)	2 kV	4 kV
Guarantee	5 Years	8 Years
Lifetime ta=50°C	70,000 h	200,000 h
Lifetime ta=60°C	30,000 h	100,000 h
Lifetime ta=70°C	0 h	50,000 h
Max. Failure rate (50,000h, ta=50°C)	10 %	2.5 %

LED Driver from Tridonic for industrial applications have been designed to reduce stress on the components and lead to long life (thermal load/peak voltage).

Designed for extremely harsh environments

- Ambient temperatures of –40 to +70 °C
- Protection against transients up to 4 kV
- 4 times longer life and 4 times lower error rate than standard devices



Driver PREMIUM INDUSTRY

Treiber PRE INDUSTRY sl

At a glance: Driver PREMIUM INDUSTRY

- Constant current built-in control gear for LED,
- For linear/area lighting in industry applications
- Interfaces: one4all (DALI DT 6, DSI, switchDIM, corridorFUNCTION) ready2mains (configuration and dimming via mains)
- Extended temperature range of – 25 to + 50 °C (moderate environments) and –40 to +70°C (tough environments)
- Suitable for mains voltage peaks (burst/surge) up to 4 kV
- Dimming range 1 – 100 %
- 5- or 8-year guarantee
- Life-time of 100,000 hours

Driver PREMIUM | Linear

NEW	Designation	Output current (mA)	Output power (W)	Output voltage range* (V)	Input voltage (V)	Size (mm)	Guarantee (Year)	environment temperature range (°C)	Order No.
	PREMIUM Industry for tough environments								
	LCI 100/200-850/300 o4a sl PRE	200 – 850	100	80–300	220~240	360 x 30 x 28	8	– 40 to + 70	28002052
	LCI 150/325-1050/300 o4a sl PRE	325 – 1,050	150	80–300	220~240	360 x 30 x 28	8	– 40 to + 70	28002053
	PREMIUM Industry for moderate environments								
	LCI 150/325-1050/300 o4a sl PRE mod	325–1,050	150	80–300	220~240	360 x 30 x 28	5	– 25 to + 50	28002054

* Depending on the selected output current. Further details can be found in datasheet.

Driver EXCITE INDUSTRY 1–10 V

Treiber EXC INDUSTRY sl 1–10 V

At a glance: Driver EXCITE INDUSTRY 1–10 V

- Dimmable constant-current LED Driver for luminaire installation
- For linear high-bay luminaires
- 8-year guarantee
- Life-time of 100,000 hours
- Extended temperature range of –40 to +70°C
- Increased dielectric strength (Surge/Burst) of 4 kV/4 kV
- Adjustable current from 350 – 900 mA
- Type of protection IP20

Driver EXCITE | Linear 1–10 V

Designation	Output current (mA)	Output power (W)	Output voltage range* (V)	Input voltage (V)	Size (mm)	Order No.
LCA 150W 350-900mA 1–10V IND sl EXC	350 – 900	150	420	220-240	425 x 30 x 28	28000835

* Depending on the selected output current. Further details can be found in datasheet.

Driver EXCITE INDUSTRY

Treiber EXC INDUSTRY sl

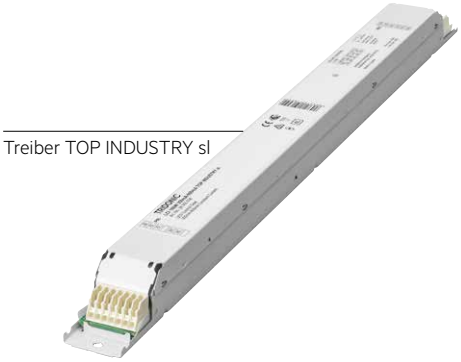
At a glance: Driver EXCITE INDUSTRY

- Constant-current LED Driver for luminaire installation
- For linear high-bay luminaires
- ready2mains technology: configuration and dimming via the mains cable
- 5- or 8-year guarantee
- Life-time of 100.000 or 200.000 h
- Extended temperature range of – 25 bis + 60 °C (moderate environments) and –40 to +70°C (tough environments)
- Increased dielectric strength (Surge/Burst) of 4 kV/4 kV
- Adjustable current from 200 – 1.050 mA
- Type of protection IP20

Driver EXCITE | Linear

Designation	Output current (mA)	Output power (W)	Output voltage range* (V)	Input voltage (V)	Size (mm)	Guarantee (Year)	environment temperature range (°C)	Order No.
EXCITE Industry for tough environments								
LC 150W 200-1050mA IND sl EXC	200 – 1,050	150	300	220~240	360 x 30 x 28	8	– 40 to + 70	28000691
EXCITE Industry for moderate environments								
LC 150W 200-1050mA sl EXC	200 – 1,050	150	300	220~240	360 x 30 x 28	5	– 25 to + 60	28001698

* Depending on the selected output current. Further details can be found in datasheet.



Treiber TOP INDUSTRY sl

At a glance: ADVANCED Industry

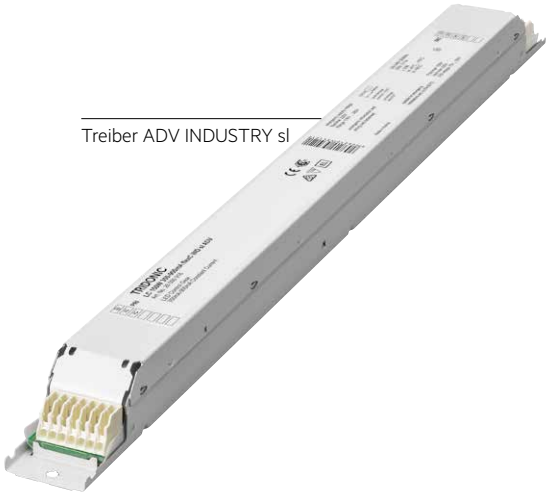
- Fixed output constant current built-in LED Driver
- For linear high-bay luminaires
- 8-year guarantee
- Life-time of 100,000 hours
- Extended temperature range of –40 to +70°C
- Increased dielectric strength (Surge/Burst) of 4 kV/4 kV
- Adjustable current from 150 – 900 mA
- Type of protection IP20

Driver TOP | Slim Linear

Designation	Output current (mA)	Output power (W)	Output voltage range* (V)	Input voltage (V)	Size (mm)	Order No.
LCI 65 W 150 mA – 400 mA TOP INDUSTRY sl	150 – 400	65	220	220~240	425 x 30 x 28	28000537
LCI 100 W 350 mA – 900 mA TOP INDUSTRY sl	350 – 900	100	220	220~240	425 x 30 x 28	28000538

* Depending on the selected output current. Further details can be found in datasheet.

Driver ADVANCED INDUSTRY



Treiber ADV INDUSTRY sl

At a glance: ADVANCED Industry

- Separate fixed-output LED Driver
- For linear high-bay luminaires
- 8-year guarantee
- Life-time of 100,000 hours
- Extended temperature range of –40 to +70°C
- Increased dielectric strength (Surge/Burst) of 4 kV/4 kV
- Adjustable current from 350 – 900 mA
- Type of protection IP20

Driver ADVANCED | Slim Linear

Designation	Output current (mA)	Output power (W)	Output voltage range* (V)	Input voltage (V)	Size (mm)	Order No.
LC 150W 350-900mA flexC IND sl ADV	350 – 900	150	300	220-240	425 x 30 x 28	28000916

* Depending on the selected output current. Further details can be found in datasheet.

Driver ADVANCED Universal Voltage INDUSTRY

At a glance: Driver ADVANCED Universal Voltage INDUSTRY

- Independent constant current LED Driver
- For linear/area high-bay luminaires
- Dimmable via 0–10 V
- 5 Jahre guarantee
- Life-time of 100,000 hours
- Extended temperature range of – 40 bis + 60 °C
- Increased dielectric strength (Surge/Burst) of 6 kV/2 kV
- Type of protection IP67

Driver ADVANCED Universal Voltage | Linear

Designation	Output current (mA)	Output power (W)	Output voltage range* (V)	Input voltage (V)	Size (mm)	G(Year)	environment temperature range (°C)	Order No.
LC 200W 1050mA UNV ADV IND	1,050	200	230	110~277	240 x 68 x 37	93.5	– 40 to + 60	28001786

Engine LLE EXCITE high robust

Example of system solution LLE

At a glance: Engine LLE high robust EXC

- High module efficiency up to 145 lm/W (tp=65 °C)
- Narrow colour tolerance: MacAdam 3 for 3,000 K, 4,000 K, 5,000 K and 6,500 K
- 8-year guarantee
- Extended temperature range
- Nominal life of up to 100,000 hours

At a glance: Engine LLE high robust ADV

- High module efficiency up to 179 lm/W (tp=65 °C)
- Ideal for linear and panel lights
- Narrow colour tolerance: MacAdam 3 for 4,000 K and 6,500 K
- 8-year guarantee
- Push terminals for simple wiring
- Nominal life of up to 72,000 hours

Engine LLE high robust EXCITE and ADVANCED

Module LLE high robust EXCITE

Module	Order No.	Colourtem-perature (K)	CRI	Typ. luminous flux[1] Operation mode (lm)		Typ. power consumption[1] Operation mode (W)		Module efficacy (lm/W) (Tp=65 °C)		Size (mm)
				High Efficiency	High Output	High Efficiency	High Output	High Efficiency	High Output	
LLE 24x280mm 2000lm 830 EXC	89602077	3,000	80	2,230	2,900	15.9	23.9	140	121	24x280
LLE 24x280mm 2000lm 840 EXC	89602078	4,000	80	2,240	2,940	15.9	23.9	141	123	24x280
LLE 24x280mm 2000lm 850 EXC	89602079	5,000	80	2,240	2,940	15.9	23.9	141	123	24x280
LLE 24x280mm 2000lm 865 EXC	89602080	6,500	80	2,240	2,940	15.9	23.9	141	123	24x280
LLE 24x560mm 4000lm 830 EXC	89603034	3,000	80	4,460	5,800	31.8	47.8	140	140	24x560
LLE 24x560mm 4000lm 840 EXC	89603035	4,000	80	4,480	5,880	31.8	47.8	141	141	24x560
LLE 24x560mm 4000lm 850 EXC	89603036	5,000	80	4,480	5,880	31.8	47.8	141	141	24x560
LLE 24x560mm 4000lm 865 EXC	89603037	6,500	80	4,480	5,880	31.8	47.8	141	141	24x560

1) Tolerance range for optical and electrical data ±10 %.

Module LLE high robust ADVANCED

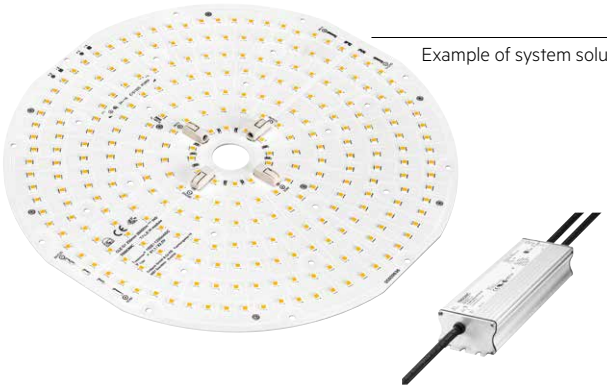
Module	Order No.	Colourtem-perature (K)	CRI	Typ. luminous flux[1] Operation mode (lm)		Typ. power consumption[1] Operation mode (W)		Module efficacy (lm/W) (Tp=65 °C)		Size (mm)
				High Efficiency	High Output	High Efficiency	High Output	High Efficiency	High Output	
LLE G2 24x280mm 2000 lm 840 ADV IND	89603038	4,000	80	1,720	2,750	10.2	18.3	169	153	24x280
LLE G2 24x280mm 2000 lm 865 ADV IND	89603039	6,500	80	1,770	2,830	10.2	18.3	174	157	24x280

1) Tolerance range for optical and electrical data ±10 %.

Matching Driver

Driver	Order No.
Driver with dimming funktion	
LCAI 65W 150-400mA ECO INDUSTRY lp	28000348
LCAI 100W 350-900mA ECO INDUSTRY lp	28000349
LCAI 150W 350-1050mA ECO INDUSTRY sl	28000527
LCA 150W 350-900mA 1–10V IND sl EXC	28000349
Driver without dimming funktion	
LCI 65W 150-400mA TOP INDUSTRY lp	28000537
LCI 100W 350-900mA TOP INDUSTRY lp	28000538
LC 150W 350-900mA flexC IND sl ADV	28000916

Engine CLE and QLE ADVANCED high robust

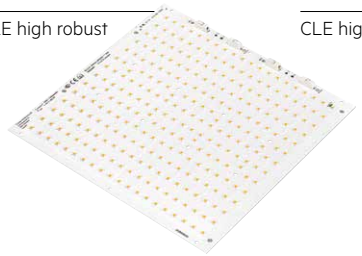


Example of system solution CLE

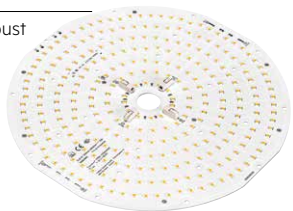
At a glance: vengine QLE and CLE high robust

- High module efficiency up to 153 lm/W (tp=65 °C)
- Narrow colour tolerance: MacAdam 3
- 5-year guarantee
- Nominal life of up to 60,000 hours

QLE high robust



CLE high robust



Engine CLE and QLE ADVANCED high robust

Engine CLE high robust ADVANCED

Module	Order No.	Colourtem-perature (K)	CRI	Typ. luminous flux[1] Operation mode (lm)		Typ. power consumption[1] Operation mode (W)		Module efficacy (lm/W) (Tp=65 °C)		Size (mm)
				High Efficiency	Nominal Mode	High Efficiency	Nominal Mode	High Efficiency	Nominal Mode	
CLE G1 250mm 26000lm 840 ADV IND	89602747	4,000	80	18,020	26,270	55.1	85.9	163	153	245x245
CLE G1 250mm 26000lm 850 ADV IND	89602748	5,000	80	18,280	26,650	55.1	85.9	166	155	245x245
CLE G1 250mm 26000lm 865 ADV IND	89602749	6,500	80	18,150	26,450	55.1	85.9	164	154	245x245

[1] Tolerance range for optical and electrical data ±10 %.

Engine QLE high robust ADVANCED

Module	Order No.	Colourtem-perature (K)	CRI	Typ. luminous flux[1] Operation mode (lm)		Typ. power consumption[1] Operation mode (W)		Module efficacy (lm/W) (Tp=65 °C)		Size (mm)
				High Efficiency	Nominal Mode	High Efficiency	Nominal Mode	High Efficiency	Nominal Mode	
QLE G1 220mm 26000lm 840 ADV IND	89602744	4,000	80	18,020	26,270	55.1	85.9	163	153	220x220
CLE G1 250mm 26000lm 850 ADV IND	89602745	5,000	80	18,280	26,650	55.1	85.9	166	155	220x220
CLE G1 250mm 26000lm 865 ADV IND	89602746	6,500	80	18,150	26,450	55.1	85.9	164	154	220x220

[1] Tolerance range for optical and electrical data ±10 %.

Support and advice
From a single source

Engine RLE
Outdoor

Engine LLE
Industry

Engine CLE
Industry

Engine QLE
Industry

We will help you to create lighting solutions that are unbeatable in terms of economyand 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.