PRODUCT DATASHEET
HQL LED 1800 lm 15 W/2700 K E27

HQL LED PRO | LED replacement for HID lamps for outdoor application



Areas of application

- Streets
- Area lighting
- Pedestrian zones
- Parks
- Outdoor applications only in suitable luminaires

Product benefits

- Saves up to 78 % energy when used as replacement for mercury vapor lamps (HQL)
- Low maintenance costs thanks to long lifetime
- Instant 100 % light, no warm-up time

Product features

- Replacement for HQL: Suitable for operation with conventional control gear (CCG) for HQL or 230 V mains
- Replacement for other HID: Suitable for operation with line voltage without control gear
- Power factor: 0.9
- Type of protection: IP65
- High surge protection: up to 6 kV (L-N)





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TECHNICAL DATA

Electrical data

Nominal wattage	15 W
Construction wattage	15.00 W
Nominal voltage	220...240 V
Claimed equiv. conventional lamp power	50 W
Nominal current	75 mA
Type of current	AC
Inrush current	10 A
Operating frequency	50/60 Hz
Mains frequency	50/60 Hz
Max. lamp no. on circuit break. 10 A (B)	94
Max. lamp no. on circuit break. B10 A - CCG without compensation	80
Max. lamp no. on circuit break. B10 A - CCG with compensation	80
Max. lamp no. on circuit break. 16 A (B)	150
Max. lamp no. on circuit break. B16 A - CCG without compensation	125
Max. lamp no. on circuit break. B16 A - CCG with compensation	125
Total harmonic distortion	< 25 %
Power factor λ	> 0.90

Photometrical data

Luminous flux	1800 lm
Nominal useful luminous flux 90°	1800 lm
Luminous efficacy	120 lm/W
Lumen main.fact.at end of nom.life time	0.70
Light color (designation)	Warm White
Color temperature	2700 K
Color rendering index Ra	≥80
Light color	827
Standard deviation of color matching	≤6 sdcm
Rated LLMF at 6,000 h	0.80

Light technical data

Beam angle	360 °
Warm-up time (60 %)	‹ 0.50 s

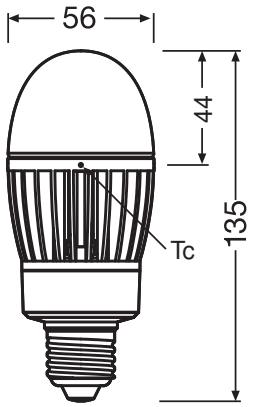




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Starting time	< 0.5 s
Rated beam angle (half peak value)	360.00 °

Dimensions & Weight



Overall length	135.00 mm
Diameter	56,0 mm
Maximum diameter	56 mm
Product weight	203.00 g

Temperatures & operating conditions

Ambient temperature range	-20…+60 °C
Maximum temperature at tc test point	105 °C

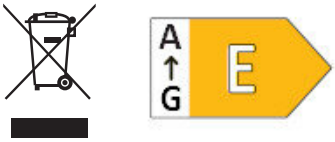
Lifespan

Lifespan	50000 h
Number of switching cycles	100000
Lumen maintenance at end of serv	0.70
Rated lamp survival factor at 6,000	0.90

Additional product data

Base (standard designation)	E27
Mercury content	0.0 mg
Mercury-free	Yes
Design / version	Frosted

Capabilities



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Dimmable	No

Certificates & Standards

Energy efficiency class	E [1)]
Energy consumption	15.00 kWh/1000h
Type of protection	IP65
Standards	CE / EAC
Photobiological safety group acc. to EN62778	RG1

1) Energy efficiency class (EEC) on a scale of A++ (highest efficiency) to E (lowest efficiency)

Country-specific categorizations

Order reference	HQLLED1800 15W/

Energy labelling regulation data acc EU 2019/2015

Light source cap-type (or other electric interface)	E27
Length	135.00 mm
Height	56,0 mm
Width	56,0 mm

Safety advice

- The bulb may be larger and heavier than the replaced bulb. Before installation it must be checked, if the luminaire and especially the holder is capable of carrying the weight of the lamp. If possible, please install the safety rope included in the package containing the lamp for the types 90 W lamps.
- Not suitable for operation with ignitors
- Operation on the capacitor can lead to a reduction of the power factor of the system.
- When installed horizontally, the t_c point of the lamp is located on the top side of the lamp.
- Use in tight luminaires and luminaires with tight reflectors not recommended.

DOWNLOAD DATA

	DOWNLOAD DATA
PDF	User instruction
PDF	Declarations of conformity
	IES file (IES)





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	DOWNLOAD DATA
	LDT file (Eulumdat)

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075453845	Folding box 1	87 mm x 87 mm x 168 mm	260.00 g	1.27 dm^3
4058075453852	Shipping box 6	275 mm x 190 mm x 185 mm	1994.00 g	9.67 dm^3

The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

DISCLAIMER

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.

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