

PRODUCT DATASHEET

HQL LED 3000 lm 23 W/4000K E27

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



AREAS OF APPLICATION

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

PRODUCT BENEFITS

- Replacement for HQL: Suitable for operation with conventional control gear for HQL
- Replacement for other HID: Suitable for operation with line voltage without control gear
- Saves up to 78 % energy when used as replacement for mercury vapor lamps (HQL)
- Effective thermal management for wide operating temperature range
- Low maintenance costs thanks to long lifetime
- Instant 100 % light, no warm-up time

PRODUCT FEATURES

- LED alternative for applications requiring a high luminous flux
- Power factor: 0.9
- Type of protection: IP65
- High surge protection: up to 4 kV (L-N)



TECHNICAL DATA
Electrical data

Rated wattage	23.00 W
Nominal wattage	23.00 W
Nominal voltage	220...240 V
Max. lamp no. on circuit break. 10 A (B)	56
Max. lamp no. on circuit break. B10 A - CCG without compensation	56
Max. lamp no. on circuit break. B16 A - CCG without compensation	90
Max. lamp no. on circuit break. 16 A (B)	90
Operating frequency	50/60 Hz
Inrush current	3.1 A
Power factor λ	0.90

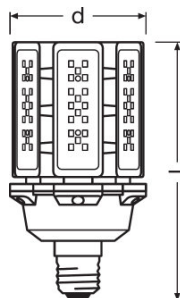
Photometrical data

Nominal luminous flux	3000 lm
Rated luminous flux	3000 lm
Lumen main.fact.at end of nom.life time	0.70
Light color (designation)	Cool White
Color temperature	4000 K
Luminous flux	3000 lm
Color rendering index Ra	≥ 80
Standard deviation of color matching	≤ 6 sdc _m
Rated color temperature	4000 K
Color rendering index Ra	≥ 80

Light technical data

Warm-up time (60 %)	< 0.50 s
Beam angle	360 °
Starting time	< 0.5 s

Dimensions & weight



Overall length	145.0 mm
Diameter	75.0 mm
Outer bulb	-
Length	145.0 mm

Temperatures & operating conditions

Ambient temperature range	-20...+60 °C
Maximum temperature at tc test point	93 °C

Lifespan

Nominal lamp life time	50000 h
Rated lamp life time	50000 h
Number of switching cycles	100000
Lumen maintenance at end of service life	0.70

Additional product data

Base (standard designation)	E27
Mercury content	0.0 mg
Mercury-free	Yes
Design / version	Clear
Show WEEE picto	Yes

Capabilities

Dimmable	No
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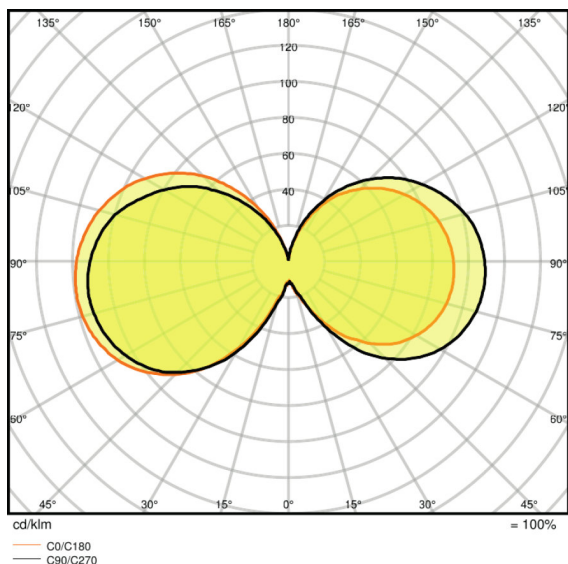
Certificates & standards

Energy efficiency class	A++
Energy consumption	23 kWh/1000h

Country-specific categorizations

Order reference	HQLLED3000 23W/
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Light Distribution



— LDC typ polar

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 46 W and 95 W.

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.

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075124783	Folding carton box 1	82 mm x 82 mm x 176 mm	469.00 g	1.18 dm ³
4058075124790	Shipping carton box 6	266 mm x 183 mm x 209 mm	3057.00 g	10.17 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.