

## PRODUCT DATASHEET

### HQL LED 12000 lm 70 W/4000 K E40

HQL LED HE | Super high luminous efficacy LED replacement for HID lamps



#### Areas of application

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

#### Product benefits

- Saves up to 72 % 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 100-240V 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 4 kV (L-N)



## TECHNICAL DATA

### Electrical data

Nominal wattage	70 W
Construction wattage	70.00 W
Nominal voltage	100...240 V
Operating mode	AC Mains, Conventional control gear (CCG)
Claimed equiv. conventional lamp power	250 W
Nominal current	750 mA
Type of current	AC
Operating frequency	50/60 Hz
Mains frequency	50/60 Hz
Total harmonic distortion	< 20 %
Power factor $\lambda$	0.90

### Photometrical data

Luminous flux	12000 lm
Nominal useful luminous flux 90°	12000 lm
Luminous efficacy	171 lm/W
Light color (designation)	Cool White
Color temperature	4000 K
Color rendering index Ra	≥80
Light color	840

### Light technical data

Beam angle	280 °
Warm-up time (60 %)	< 0.50 s
Starting time	< 0.5 s

### Dimensions & Weight

Overall length	270.00 mm
Diameter	110.00 mm
Maximum diameter	110 mm
Product weight	1400.00 g

### Temperatures & operating conditions

Ambient temperature range	-20...+50 °C
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## Lifespan

Number of switching cycles	100000
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## Additional product data

Base (standard designation)	E40
Mercury content	0.0 mg

## Capabilities

Dimmable	No
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## Certificates & Standards

Type of protection	IP65
Standards	CB
Photobiological safety group acc. to EN62778	RG1

## Country-specific categorizations

Order reference	HQLLED 70W/840
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## Energy labelling regulation data acc EU 2019/2015

Light source cap-type (or other electric interface)	E40
Length	270.00 mm
Height	110.00 mm
Width	110.00 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 37W E40 and 70W E40.
- 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
4058075724723	Folding box 1	117 mm x 117 mm x 301 mm	1518.00 g	4.12 dm <sup>3</sup>
4058075724730	Shipping box 6	360 mm x 245 mm x 326 mm	9526.00 g	28.75 dm <sup>3</sup>

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.

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## DISCLAIMER

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