

# PRODUCT DATASHEET

## HQL HIGHBAY 250 120° 95 W/4000K E40

HQL LED HIGHBAY | LED replacement for HID lamps for high-bay luminaires



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### AREAS OF APPLICATION

- Industrial and storage facilities
- Outdoor applications only in suitable luminaires

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### PRODUCT BENEFITS

- Energy savings of up to 65 % when replacing 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

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### PRODUCT FEATURES

- LED alternative for applications requiring a high luminous flux
- Power factor: 0.9
- Type of protection: IP40
- High surge protection: up to 4 kV (L-N)
- 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
- Operating temperature: -20...50 °C



**TECHNICAL DATA**

Electrical data

<b>Rated wattage</b>	95.00 W
<b>Nominal wattage</b>	95.00 W
<b>Nominal voltage</b>	220...240 V
<b>Operating frequency</b>	50/60 Hz
<b>Power factor <math>\lambda</math></b>	> 0.90

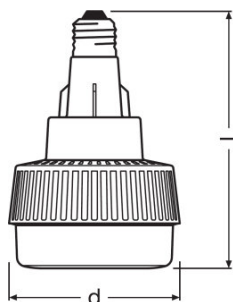
Photometrical data

<b>Nominal luminous flux</b>	13000 lm
<b>Rated luminous flux</b>	13000 lm
<b>Rated color temperature</b>	4000 K
<b>Lumen main.fact.at end of nom.life time</b>	0.70
<b>Light color (designation)</b>	Cool White
<b>Color temperature</b>	4000 K
<b>Luminous flux</b>	13000 lm
<b>Color rendering index Ra</b>	$\geq 80$
<b>Standard deviation of color matching</b>	$\leq 6$ sdc <sub>m</sub>
<b>Color rendering index Ra</b>	$\geq 80$

Light technical data

<b>Warm-up time (60 %)</b>	< 0.50 s
<b>Beam angle</b>	120 °
<b>Starting time</b>	< 0.5 s

Dimensions & weight



<b>Overall length</b>	280.0 mm
<b>Diameter</b>	190.0 mm
<b>Outer bulb</b>	-

<b>Length</b>	280.0 mm
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#### Temperatures & operating conditions

<b>Ambient temperature range</b>	-20...+50 °C
<b>Maximum temperature at tc test point</b>	73 °C

#### Lifespan

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

#### Additional product data

<b>Base (standard designation)</b>	E40
<b>Mercury content</b>	0.0 mg
<b>Mercury-free</b>	Yes
<b>Show WEEE picto</b>	Yes

#### Capabilities

<b>Dimmable</b>	No
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#### Certificates & standards

<b>Energy efficiency class</b>	A++
<b>Energy consumption</b>	95 kWh/1000h

#### Country-specific categorizations

<b>Order reference</b>	HQLEDHB13000 95
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### EQUIPMENT / ACCESSORIES

- Safety sling for lamp included

### 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.

Safety sling has to be installed.

Not suitable for operation with ignitors

Operation on the capacitor can lead to a reduction of the power factor of the system.

To ensure full light efficiency and product lifetime, it is recommended to detach any glass or cover of the luminaire.

### LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075135864	Folding carton box 1	202 mm x 202 mm x 293 mm	992.00 g	11.96 dm <sup>3</sup>
4058075135871	Shipping carton box 4	420 mm x 420 mm x 315 mm	4435.00 g	55.57 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.