

# PRODUCT DATASHEET

## HQL HIGHBAY 400 120° 140 W/4000K E40

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



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### AREAS OF APPLICATION

- LED alternative for applications requiring a high luminous flux
- 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

- 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: IP40
- High surge protection: up to 4 kV (L-N)



## TECHNICAL DATA

### Electrical data

Rated wattage	140.00 W
Nominal wattage	140.00 W
Nominal voltage	220...240 V
Max. lamp no. on circuit break. 10 A (B)	6
Max. lamp no. on circuit break. B10 A - CCG without compensation	6
Max. lamp no. on circuit break. B10 A - CCG with compensation	3
Max. lamp no. on circuit break. B16 A - CCG without compensation	10
Max. lamp no. on circuit break. B16 A - CCG with compensation	5
Max. lamp no. on circuit break. 16 A (B)	10
Operating frequency	50/60 Hz
Power factor $\lambda$	> 0.90

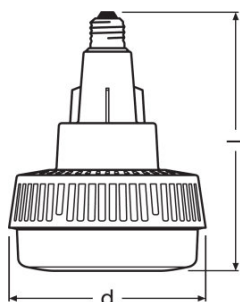
### Photometrical data

Nominal luminous flux	20000 lm
Rated luminous flux	20000 lm
Lumen main.fact.at end of nom.life time	0.70
Light color (designation)	Cool White
Color temperature	4000 K
Luminous flux	20000 lm
Color rendering index Ra	$\geq 80$
Standard deviation of color matching	$\leq 6$ sdc <sub>m</sub>
Rated color temperature	4000 K
Color rendering index Ra	$\geq 80$

### Light technical data

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

### Dimensions & weight



<b>Overall length</b>	310.0 mm
<b>Diameter</b>	230.0 mm
<b>Outer bulb</b>	-
<b>Length</b>	310.0 mm

### Temperatures & operating conditions

<b>Ambient temperature range</b>	-20...+50 °C
<b>Maximum temperature at tc test point</b>	69.2 °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>Photobiological safety group EN62778</b>	RG1
<b>Energy efficiency class</b>	A++
<b>Energy consumption</b>	140 kWh/1000h

## Country-specific categorizations

Order reference	HQLEDHB20000 14
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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.

Only suitable for temperatures of up to 50°C inside of the luminaire.

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
4058075135888	Folding carton box 1	247 mm x 247 mm x 333 mm	1481.00 g	20.32 dm <sup>3</sup>
4058075135895	Shipping carton box 4	515 mm x 515 mm x 355 mm	8060.00 g	94.15 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.

## DISCLAIMER

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