

PRODUCT DATASHEET

HQL LED HIGHBAY 400 117° 140 W/4000K E40

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



AREAS OF APPLICATION

- LED alternative for applications requiring a high luminous flux
- Industrial and storage facilities
- Outdoor applications only in suitable luminaires

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

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
- Operating temperature: -20...50 °C
- 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)	5
Max. lamp no. on circuit break. 16 A (B)	8
Operating frequency	50/60 Hz
Inrush current	23 A
Power factor λ	> 0.90

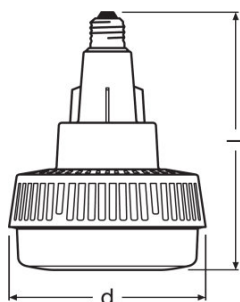
Photometrical data

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	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	117 °
Starting time	< 0.5 s

Dimensions & weight



Overall length	310.0 mm
Diameter	230.0 mm
Outer bulb	-
Length	310.0 mm

Temperatures & operating conditions

Ambient temperature range	-20...+50 °C
Maximum temperature at tc test point	100 °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)	E40
Mercury content	0.0 mg
Mercury-free	Yes
Show WEEE picto	Yes

Capabilities

Dimmable	No
-----------------	----

Certificates & standards

Photobiological safety group EN62778	RG1
Energy efficiency class	A++
Energy consumption	140 kWh/1000h

Country-specific categorizations

Order reference	HQLEDHB20000 14
------------------------	-----------------

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
4058075452244	Folding carton box 1	247 mm x 247 mm x 333 mm	1291.00 g	20.32 dm ³
4058075452251	Shipping carton box 4	515 mm x 515 mm x 355 mm	5841.00 g	94.15 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.