

PRODUCT DATASHEET

HQL HIGHBAY 400 120 ° 140 W/6500 K 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
- Power factor: 0.9
- Type of protection: IP40
- High surge protection: up to 4 kV (L-N)



TECHNICAL DATA

Electrical data

Nominal wattage	140 W
Construction wattage	140.00 W
Nominal voltage	220...240 V
Claimed equiv. conventional lamp power	400 W
Nominal current	650 mA
Type of current	AC
Operating frequency	50/60 Hz
Mains frequency	50/60 Hz
Power factor λ	> 0.90

Photometrical data

Luminous flux	20000 lm
Luminous efficacy	142 lm/W
Lumen main.fact.at end of nom.life time	0.70
Light color (designation)	Cool Daylight
Color temperature	6500 K
Color rendering index Ra	≥80
Light color	865
Standard deviation of color matching	≤6 sdc _m

Light technical data

Beam angle	120 °
Starting time	< 0.5 s

Dimensions & Weight

Overall length	310.00 mm
Diameter	230.00 mm
Product weight	1260.00 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	IP40
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Country-specific categorizations

Order reference	HQLLPHB20000 14
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Energy labelling regulation data acc EU 2019/2015

Light source cap-type (or other electric interface)	E40
Length	310.00 mm
Height	230.00 mm
Width	230.00 mm


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.

DOWNLOAD DATA

Photometric and lighting design files		Document name
	IES file (IES)	HQL HIGHBAY 120° 140 W/6500K E40

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075279513	Folding box 1	247 mm x 247 mm x 333 mm	1481.00 g	20.32 dm ³
4058075279520	Shipping box 4	515 mm x 515 mm x 355 mm	6601.00 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.