

PRODUCT DATASHEET

HQL HIGHBAY 250 120 ° 95 W/4000 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	95 W
Construction wattage	95.00 W
Nominal voltage	220...240 V
Claimed equiv. conventional lamp power	250 W
Nominal current	650 mA
Type of current	AC
Operating frequency	50/60 Hz
Mains frequency	50/60 Hz
Max. lamp no. on circuit break. 10 A (B)	8
Max. lamp no. on circuit break. B10 A - CCG without compensation	8
Max. lamp no. on circuit break. B10 A - CCG with compensation	3
Max. lamp no. on circuit break. 16 A (B)	13
Max. lamp no. on circuit break. B16 A - CCG without compensation	13
Max. lamp no. on circuit break. B16 A - CCG with compensation	5
Power factor λ	> 0.90

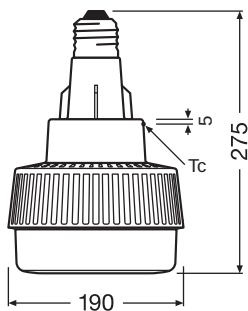
Photometrical data

Luminous flux	13000 lm
Luminous efficacy	136 lm/W
Lumen main.fact.at end of nom.life time	0.70
Light color (designation)	Cool White
Color temperature	4000 K
Color rendering index Ra	≥ 80
Light color	840
Standard deviation of color matching	≤ 6 sdc _m
Rated LLMF at 6,000 h	0.80

Light technical data

Beam angle	120 °
Warm-up time (60 %)	< 0.50 s
Starting time	< 0.5 s
Rated beam angle (half peak value)	120.00 °

Dimensions & Weight



Overall length	280.00 mm
Diameter	190 mm
Maximum diameter	190 mm
Product weight	860.00 g

Temperatures & operating conditions

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

Lifespan

Nominal lamp life time	50000 h
Number of switching cycles	100000
Lumen maintenance at end of serv	0.70
Rated lamp survival factor at 6,000	≥ 0.90

Additional product data

Base (standard designation)	E40
Mercury content	0.0 mg
Mercury-free	Yes

Capabilities

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

Certificates & Standards

Energy efficiency class	A++ 1)
Energy consumption	95.00 kWh/1000h
Type of protection	IP40

Standards	CE
Photobiological safety group acc. to EN62778	RG1

1) Energy efficiency class (EEC) on a scale of A++ (highest efficiency) to E (lowest efficiency)

Country-specific categorizations

Order reference	HQLEDHB13000 95
-----------------	-----------------

LOGISTICAL DATA

Temperature range at storage	-20...+80 °C
------------------------------	--------------

Energy labelling regulation data acc EU 2019/2015

Light source cap-type (or other electric interface)	E40
Length	280.00 mm
Height	190 mm
Width	190 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

DOWNLOAD DATA	
	User instruction HQL LED Highbay
	PRODUCT DATASHEET HQL HIGHBAY 250 120 95 W 4000K E40 DATASHEET
	IES file (IES) AC12526_HQLEDHB13000 95W 230V E40
	LDT file (Eulumdat) AC12526_HQLEDHB13000 95W 230V E40

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075135864	Folding box 1	202 mm x 202 mm x 293 mm	992.00 g	11.96 dm ³
4058075135871	Shipping box 4	420 mm x 420 mm x 315 mm	5133.00 g	55.57 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.