

# PRODUCT DATASHEET HQI HIGHBAY 250 120 ° 95 W/4000 K E40

HQI 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

- Direct replacement for traditional HQI and NAV lamps thanks to CCG and ignitor compatibility
- Energy savings of up to 68 % when replacing traditional HQI lamps
- Effective thermal management for wide operating temperature range
- Low maintenance costs thanks to long lifetime
- Instant 100 % light, no warm-up time

#### **Product features**

- 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	110 V
Operating mode	Conventional control gear (CCG), Conventional control gear (CCG) and ignitor
Claimed equiv. conventional lamp power	250 W
Nominal current	2.3 A
Type of current	AC
Inrush current	≤75 A
Operating frequency	50 Hz
Mains frequency	50 Hz
Max. lamp number on MCB B10 A	15
Max. lamp number on MCB B10 A - CCG without compensation	15
Max. lamp number on MCB B10 A - CCG with compensation	4
Max. lamp number on MCB B16 A	24
Max. lamp number on MCB B16 A - CCG without compensation	24
Max. lamp number on MCB B16 A - CCG with compensation	6
Total harmonic distortion	< 80 %
Power factor $\lambda$	0.70

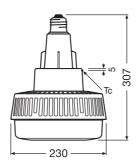
## Photometrical data

Nominal useful luminous flux 90°       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 sdcm	Luminous flux	13000 lm
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 sdcm	Nominal useful luminous flux 90°	13000 lm
Light color (designation)       Cool White         Color temperature       4000 K         Color rendering index Ra       ≥80         Light color       840         Standard deviation of color matching       ≤6 sdcm	Luminous efficacy	136 lm/W
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Light color     840       Standard deviation of color matching     ≤6 sdcm	Color temperature	4000 K
Standard deviation of color matching ≤6 sdcm	Color rendering index Ra	≥80
	Light color	840
	Standard deviation of color matching	≤6 sdcm
Rated LLMF at 6,000 h 0.80	Rated LLMF at 6,000 h	0.80

# Light technical data

Warm-up time (60 %)	< 0.50 s
Starting time	< 0.5 s

# Dimensions & Weight



Overall length	307.00 mm
Diameter	230 mm
Maximum diameter	230 mm
Product weight	1100.00 g

# Temperatures & operating conditions

Ambient temperature range	-20+50 °C
Maximum temperature at tc test point	65 °C

## Lifespan

Number of switching cycles	100000
Lumen maintenance at end of service lifetime	0.70
Rated lamp survival factor at 6,000 h	≥ 0.90

# Additional product data

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

# Capabilities

Dimmable	No
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## Certificates & Standards

Energy efficiency class	E 1)

Energy consumption	95.00 kWh/1000h
Type of protection	IP40
Standards	CE
Photobiological safety group acc. to EN62778	RG1

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

## Country-specific categorizations

Order reference	HQILEDH 13000 95	
Energy labelling regulation data acc EU 2019/2015		
Light source cap-type (or other electric interface)	E40	
Length	307.00 mm	
Height	230 mm	
Width	230 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.
- To ensure full light efficiency and product lifetime, it is recommended to detach any glass or cover of the luminaire.
- Only suitable for temperatures of up to 50 °C inside of the luminaire.
- Not suitable for operation with 230 V line voltage or electronic control gear.

#### **DOWNLOAD DATA**

	Documents and certificates	Document name	
PDF	User instruction / safety instructions	HQI LED Highbay	
	Photometric and lighting design files	Document name	
	IES file (IES)	AC18722_HQILEDH13000 95W840 110V E40	
	LDT file (Eulumdat)	AC18722_HQILEDH13000 95W840 110V E40	

Photometric and lighting design files	Document name
Light distribution curve type polar	AC18722 HQILEDH13000 95W840 110V E40
Light distribution curve type polar	AC18722_HQILEDH13000 95W840 110V E40

#### LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075284722	Folding box 1	247 mm x 247 mm x 333 mm	1321.00 g	20.32 dm <sup>3</sup>
4058075284739	Shipping box	515 mm x 515 mm x 355 mm	5961.00 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.