PRODUCT DATASHEET
HID LED HIGHBAY UNIVERSAL P 25000 LM 160W 840 E40

HID LED Highbay Universal P | LED replacement for HID lamps for high-bay luminaires



Areas of application

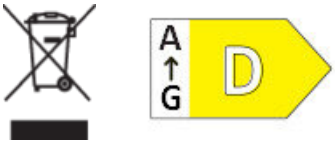
- LED alternative for applications requiring a high luminous flux
- Industrial and storage facilities
- Outdoor applications only in suitable luminaires

Product benefits

- Direct replacement for traditional HID lamps thanks to CCG and ignitor compatibility
- Operation on AC mains for highest energy efficiency possible
- 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)



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TECHNICAL DATA

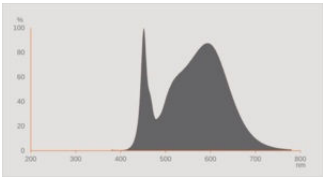
Electrical data

Nominal wattage	160 W
Construction wattage	160.00 W
Nominal voltage	220…240 V
Operating mode	CCG, AC Mains, ignitor
Claimed equiv. conventional lamp power	400 W
Nominal current	750 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	7
Max. lamp no. on circuit break. B10 A - CCG with compensation	6
Max. lamp no. on circuit break. 16 A (B)	12
Max. lamp no. on circuit break. B16 A - CCG without compensation	11
Max. lamp no. on circuit break. B16 A - CCG with compensation	10
Total harmonic distortion	20 %
Power factor λ	> 0.90

Photometrical data

Luminous intensity	11771 cd
Luminous flux	25000 lm
Nominal useful luminous flux 90°	25000 lm
Luminous efficacy	156 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
Rated peak intensity	11771 cd
Flickering metric (Pst LM)	1
Stroboscope effect metric (SVM)	0,4

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Light technical data

Beam angle	100 °
Warm-up time (60 %)	‹ 0.50 s
Starting time	< 0.5 s

Dimensions & Weight



Overall length	263.00 mm
Diameter	250.00 mm
Product weight	1330.00 g

Temperatures & operating conditions

Ambient temperature range	-40…+50 °C
Maximum temperature at tc test point	80 °C

Lifespan

Lifespan L70/B50 at 25 °C	50000 h
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

Capabilities

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Dimmable	No

Certificates & Standards

Energy efficiency class	D [1)]
Energy consumption	160.00 kWh/1000h
Type of protection	IP40
Standards	CE / EAC / UKCA
Photobiological safety group acc. to EN62778	RG1

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

Country-specific categorizations

Order reference	HID LED HB UN P

LOGISTICAL DATA

Temperature range at storage	-40...+80 °C

Energy labelling regulation data acc EU 2019/2015

Lighting technology used	LED
Non-directional or directional	DLS
Mains or non-mains	MLS
Light source cap-type (or other electric interface)	E40
Connected light source (CLS)	No
Color-tuneable light source	No
Envelope	No
High luminance light source	No
Anti-glare shield	No
Correlated colour temperature type	SINGLE_VALUE
Standby power	0.00 W
Claim of equivalent power	No
Length	263.00 mm
Height	250.00 mm
Width	250.00 mm
Chromaticity coordinate x	0.382
Chromaticity coordinate y	0.38
R9 Colour rendering index	1
Beam angle correspondence	WIDE_CONE_120
Survival factor	0,90

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Displacement factor	0.9
LED light source replaces a fluorescent light source	No
EPREL ID	1160651
Model number	AC41486

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 electronic control gear.

DOWNLOAD DATA

	Documents and certificates
PDF	User instruction
PDF	Declarations Of Conformity CE
PDF	Declarations Of Conformity UKCA

	Photometric and lighting design files
	IES file (IES)
	LDT file (Eulumdat)
	UGR file (UGR table)
	LDC typ cone
	LDC typ polar
	Spectral power distribution

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LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075780422	Folding box 1	255 mm x 255 mm x 320 mm	1650.00 g	20.81 dm^3
4058075780439	Shipping box 4	530 mm x 530 mm x 348 mm	8274.00 g	97.75 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.

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