

PRODUCT DATASHEET HID LED HIGHBAY UNIVERSAL PERFORMANCE 14000 LM 105W 840 E40

HID LED HIGHBAY UNIVERSAL PERFORMANCE | 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)





TECHNICAL DATA

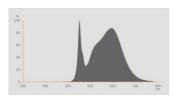
Electrical data

Nominal wattage	105 W
Construction wattage	105.00 W
Nominal voltage	220240 V
Operating mode	CCG, AC Mains, ignitor
Claimed equiv. conventional lamp power	250 W
Nominal current	500 mA
Type of current	AC
Inrush current	4.56 A
Operating frequency	50/60 Hz
Mains frequency	50/60 Hz
Max. lamp number on MCB B10 A	12
Max. lamp number on MCB B10 A - CCG without compensation	10
Max. lamp number on MCB B10 A - CCG with compensation	9
Max. lamp number on MCB B16 A	19
Max. lamp number on MCB B16 A - CCG without compensation	14
Max. lamp number on MCB B16 A - CCG with compensation	9
Total harmonic distortion	20 %
Power factor λ	> 0.90
Surge capability (L-N)	4 kV

Photometrical data

Luminous intensity	6636 cd
Luminous flux	14000 lm
Nominal useful luminous flux 90°	14000 lm
Luminous efficacy	133 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	6636 cd
Rated LLMF at 6,000 h	0.80

Flickering metric (Pst LM)	1
Stroboscope effect metric (SVM)	0,4



EPREL data spectral diagram PROF LEDr 4000K

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	1400.00 g

Temperatures & operating conditions

Ambient temperature range	-40+50 °C ¹⁾
Maximum temperature at tc test point	90 °C

¹⁾ Temperature surrounding the lamp - for enclosed luminaires: temperature inside of the luminaire

Lifespan

Lifespan L70/B50 at 25 °C	50000 h
Number of switching cycles	100000
Lumen maintenance at end of service lifetime	0.70

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HID LED HIGHBAY UNIVERSAL
PERFORMANCE 14000 LM 105W 840

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	Capabilities				
Dimmable	No				
Certificates & Standards					
Energy efficiency class	E 1)				
Energy consumption	105.00 kWh/1000h				
Type of protection	IP40				
Standards	CE / EAC / UKCA				
Photobiological safety group acc. to EN62778	RG1				
Country-specific categorizations Order reference	HID LED HB UN P				
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
Displacement factor	0.9
LED light source replaces a fluorescent light source	No
EPREL ID	1160649
Model number	AC41484,AC41484

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 $^{\circ}\text{C}$ inside of the luminaire.
- Not suitable for operation with electronic control gear.
- All electrical connections must be made by a qualified person.

DOWNLOAD DATA

	Documents and certificates	Document name	
POF	User instruction / safety instructions	HID LED HIGHBAY UNIVERSAL	
POF	Legal information	Informationstext 18 Abs 4 ElektroG	
POF	Declarations of conformity	CE Declaration HID LED HB UN Ledvance	
POF	Declarations of conformity UKCA	HID LED HIGHBAY UN	

Photometric and lighting desig	n files	Document name	
IES file (IES)		HID LED HB 105W-840 230VUN E40	
LDT file (Eulumdat)		HID LED HB 105W 840 230VUN E40	
UGR file (UGR table)		HID LED HB 105W-840 230VUN E40	
Light distribution curve type cone		HID LED HB 105W-840 230VUN E40	
Light distribution curve type po	olar	HID LED HB 105W-840 230VUN E40	
Spectral power distribution		EPREL data spectral diagram PROF LEDr 4000K	
Tender texts	Document name		
Tender documents	HID LED Highbay	Universal P 14000 LM 105W 840 E40-en	

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075780385	Folding box	255 mm x 255 mm x 320 mm	1720.00 g	20.81 dm ³
4058075780392	Shipping box 4	530 mm x 530 mm x 348 mm	8554.00 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.