

PRODUCT DATASHEET HQL LED 4000 lm 29 W/4000 K E27

HQL LED PRO | LED replacement for HID lamps for outdoor application



Areas of application

- Streets
- Area lighting
- Pedestrian zones
- Parks
- Outdoor applications only in suitable luminaires

Product benefits

- Saves up to 78 % energy when used as replacement for mercury vapor lamps (HQL)
- 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: IP65
- High surge protection: up to 6 kV (L-N)





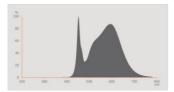
TECHNICAL DATA

Electrical data

Nominal wattage	29 W	
Construction wattage	29.00 W	
Nominal voltage	220240 V	
Operating mode	Conventional control gear (CCG) without ignitor, AC Mains	
Claimed equiv. conventional lamp power	80 W	
Nominal current	135 mA	
Type of current	AC	
Operating frequency	50/60 Hz	
Mains frequency	50/60 Hz	
Max. lamp no. on circuit break. 10 A (B)	48	
Max. lamp no. on circuit break. B10 A - CCG without compensation	40	
Max. lamp no. on circuit break. B10 A - CCG with compensation	35	
Max. lamp no. on circuit break. 16 A (B)	76	
Max. lamp no. on circuit break. B16 A - CCG without compensation	64	
Max. lamp no. on circuit break. B16 A - CCG with compensation	56	
Total harmonic distortion	20 %	
Power factor λ	> 0.90	

Photometrical data

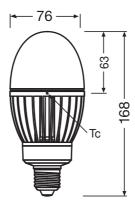
Luminous flux	4000 lm
Nominal useful luminous flux 90°	4000 lm
Luminous efficacy	137 lm/W
Lumen main.fact.at end of nom.life time	0.70
Light color (designation)	Cool White
Color temperature	4000 K
Color rendering index Ra	80
Light color	840
Standard deviation of color matching	≤6 sdcm
Rated LLMF at 6,000 h	0.80
Flickering metric (Pst LM)	1
Stroboscope effect metric (SVM)	0,4



Light technical data

Beam angle	360 °
Warm-up time (60 %)	< 0.50 s
Starting time	< 0.5 s

Dimensions & Weight



Overall length	172.00 mm
Diameter	76.00 mm
Product weight	380.00 g

Temperatures & operating conditions

Ambient temperature range	-20+60 °C
Maximum temperature at tc test point	105 ℃

Lifespan

Lifespan L70/B50 at 25 °C	60000 h
Number of switching cycles	100000
Lumen maintenance at end of service lifetime	0.70

October 11, 2023, 19:01:24 **HQL LED 4000 lm 29 W/4000 K E27**

Rated lamp survival factor at 6,000 h	≥ 0.90		
Additional product data			
Base (standard designation)	E27		
Mercury content	0.0 mg		
Capabilities			
Dimmable	No		
Certificates & Standards			
Energy efficiency class	D ¹⁾		
Energy consumption	29.00 kWh/1000h		
Type of protection	IP65		
Standards	CE / EAC / UKCA / ENEC		
Photobiological safety group acc. to EN62778 RG0			
Order reference	HQLLED4000 29W/		
Country-specific categorizations	HOLLED 4000 30W/		
LOGISTICAL DATA			
Temperature range at storage	-30+80 °C		
Energy labelling regulation data acc EU 2019/2015			
Lighting technology used	LED		
Non-directional or directional	NDLS		
Mains or non-mains	MLS		
Light source cap-type (or other electric interface)	E27		
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		
Claim of equivalent power	No		
Length	172.00 mm		

76.00 mm

Height

Width	76.00 mm
Chromaticity coordinate x	0,382
Chromaticity coordinate y	0,380
R9 Colour rendering index	>0
Beam angle correspondence	SPHERE_360
Survival factor	0,90
Displacement factor	>0,9
LED light source replaces a fluorescent light source	No
EPREL ID	1157790
Model number	AC41492

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. If possible, please install the safety rope included in the package containing the lamp for the types 90 W lamps.
- Not suitable for operation with ignitors
- Operation on the capacitor can lead to a reduction of the power factor of the system.
- When installed horizontally, the t $_{\rm C}$ point of the lamp is located on the top side of the lamp.
- Use in tight luminaires and luminaires with tight reflectors not recommended.

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)
<u></u>	UGR file (UGR table)
	LDC typ polar

Photometric and lighting design files



Spectral power distribution

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075765955	Folding box 1	105 mm x 105 mm x 225 mm	440.00 g	2.48 dm ³
4058075765962	Shipping box 6	335 mm x 230 mm x 245 mm	3036.00 g	18.88 dm³

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.