

# PRODUCT DATASHEET HQL LED P 2700LM 21.5W 827 E27

HQL LED P | LED replacement for HQL lamps in demanding outdoor applications



#### 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	21.5 W
Construction wattage	21.50 W
Nominal voltage	220240 V
Claimed equiv. conventional lamp power	80 W
Nominal current	100 mA
Type of current	AC
Operating frequency	50/60 Hz
Mains frequency	50/60 Hz
Max. lamp no. on circuit break. 10 A (B)	66
Max. lamp no. on circuit break. B10 A - CCG without compensation	55
Max. lamp no. on circuit break. B10 A - CCG with compensation	48
Max. lamp no. on circuit break. 16 A (B)	105
Max. lamp no. on circuit break. B16 A - CCG without compensation	88
Max. lamp no. on circuit break. B16 A - CCG with compensation	76
Total harmonic distortion	20 %
Power factor $\lambda$	> 0.90

## Photometrical data

Luminous intensity	N/A
Luminous flux	2700 lm
Nominal useful luminous flux 90°	2700 lm
Luminous efficacy	125 lm/W
Lumen main.fact.at end of nom.life time	0.70
Light color (designation)	Warm White
Color temperature	2700 K
Color rendering index Ra	80
Light color	827
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
Rated beam angle (half peak value)	360.00 °

# **Dimensions & Weight**

Overall length	145.00 mm
Diameter	76.00 mm
Product weight	340.00 g

# Temperatures & operating conditions

Ambient temperature range	-40+60 °C
Maximum temperature at tc test point	105 °C

### Lifespan

Lifespan	60000 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)	E27
Mercury content	0.0 mg
Mercury-free	Yes

Product remark	Available from June 2023	
Capabilities		
Dimmable	No	
Certificates & Standards		
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Energy efficiency class	E 1)
Energy consumption	22.00 kWh/1000h
Type of protection	IP65
Standards	CE / EAC / UKCA
Photobiological safety group acc. to EN62778	RG0

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

# Country-specific categorizations

Order reference	HQL LED P 2700L
Energy labelling regulation data ass EU 2010/2015	

## Energy labelling regulation data acc EU 2019/2015

_VALUE
mm
nm
nm

Survival factor	0.9
Displacement factor	0.9
LED light source replaces a fluorescent light source	No
EPREL ID	1157787
Model number	AC41489

### 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<sub>c</sub> 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**

	DOWNLOAD DATA
POF	User instruction
POF	Declarations Of Conformity CE
	IES file (IES)
	LDT file (Eulumdat)
	UGR file (UGR table)

## LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854040641	Folding box 1	105 mm x 105 mm x 195 mm	395.00 g	2.15 dm <sup>3</sup>
4099854040658	Shipping box 6	335 mm x 230 mm x 215 mm	2741.00 g	16.57 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.