

# PRODUCT DATASHEET

## HQL LED 5400 lm 41 W/2700 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)



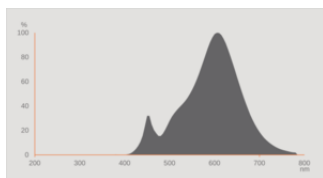
## TECHNICAL DATA

### Electrical data

Nominal wattage	41 W
Construction wattage	41.00 W
Nominal voltage	220...240 V
Claimed equiv. conventional lamp power	125 W
Nominal current	190 mA
Type of current	AC
Operating frequency	50/60 Hz
Mains frequency	50/60 Hz
Max. lamp no. on circuit break. 10 A (B)	33
Max. lamp no. on circuit break. B10 A - CCG without compensation	25
Max. lamp no. on circuit break. B10 A - CCG with compensation	23
Max. lamp no. on circuit break. 16 A (B)	52
Max. lamp no. on circuit break. B16 A - CCG without compensation	42
Max. lamp no. on circuit break. B16 A - CCG with compensation	37
Total harmonic distortion	20 %
Power factor $\lambda$	> 0.90

### Photometrical data

Luminous flux	5400 lm
Nominal useful luminous flux 90°	5400 lm
Luminous efficacy	131 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 sdcn
Rated LLMF at 6,000 h	0.80
Flickering metric (Pst LM)	1.0
Stroboscope effect metric (SVM)	0.40



### 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	195.00 mm
Diameter	80.00 mm
Maximum diameter	80 mm
Product weight	440.00 g

### Temperatures & operating conditions

Ambient temperature range	-20...+50 °C
Maximum temperature at tc test point	105 °C

### Lifespan

Nominal lamp life time	50000 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

## Capabilities

Dimmable	No
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## Certificates &amp; Standards

Energy efficiency class	E
Energy consumption	41.00 kWh/1000h
Type of protection	IP65
Standards	CE
Photobiological safety group acc. to EN62778	RG0

## Country-specific categorizations

Order reference	HQLLED5400 41W/
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## LOGISTICAL DATA

Temperature range at storage	-20...+80 °C
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## 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	195.00 mm
Height	80.00 mm
Width	80.00 mm
Chromaticity coordinate x	0.458
Chromaticity coordinate y	0.410
R9 Colour rendering index	0.40
Beam angle	SPHERE_360
Survival factor	0.90
Displacement factor	0.90

LED light source replaces a fluorescent light source	not applicable
EPREL ID	503819
Model number	AC32913

### 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  $t_c$  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

DOWNLOAD DATA	
	User instruction HQL LED

### LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075612471	Folding box 1	105 mm x 105 mm x 255 mm	506.00 g	2.81 dm <sup>3</sup>
4058075612488	Shipping box 6	335 mm x 230 mm x 275 mm	3458.00 g	21.19 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.