

# PRODUCT DATASHEET HQL LED FILAMENT V 6000LM 38W 840 E40

HQL LED FILAMENT V | LED replacement for HQL lamps in design-oriented outdoor applications



#### Areas of application

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

### Product benefits

- Same design as traditional HQL lamps with frosted, ellipsoid full glass bulb
- Full use of reflector of existing luminaire thanks to 360 degree beam angle
- Saves up to 78 % energy when used as replacement for mercury vapor lamps (HQL)
- 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
- Surge protection: up to 2 kV (L-N)





# TECHNICAL DATA

# Electrical data

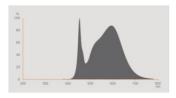
Nominal wattage	38 W
Construction wattage	38.00 W
Nominal voltage	220240 V
Operating mode	CCG, AC Mains
Claimed equiv. conventional lamp power	125 W
Nominal current	160 mA
Type of current	AC
Inrush current	7.3 A
Operating frequency	50/60 Hz
Mains frequency	50/60 Hz
Max. lamp number on MCB B10 A	13
Max. lamp number on MCB B10 A - CCG without compensation	19
Max. lamp number on MCB B10 A - CCG with compensation	5
Max. lamp number on MCB B16 A	17
Max. lamp number on MCB B16 A - CCG without compensation	26
Max. lamp number on MCB B16 A - CCG with compensation	7
Total harmonic distortion	10 %
Power factor λ	> 0.90
Surge capability (L-N)	2 kV

# Photometrical data

Luminous intensity	Not relevant
Luminous flux	6000 lm
Nominal useful luminous flux 90°	6000 lm
Luminous efficacy	157 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

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Stroboscope effect metric (SVM)	0,4
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EPREL data spectral diagram PROF LEDr 4000K

# Light technical data

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

# Dimensions & Weight



Overall length	202.00 mm
Diameter	90.00 mm
Maximum diameter	90 mm
Product weight	210.00 g

# Temperatures & operating conditions

Ambient temperature range	-20+50 °C <sup>1)</sup>
Maximum temperature at tc test point	80 °C

<sup>1)</sup> Temperature surrounding the lamp - for enclosed luminaires: temperature inside of the luminaire

# Lifespan

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Lifespan L70/B50 at 25 °C	25000 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	
Mercury-free	Yes	
Capabilities		
Dimmable	No	
Certificates & Standards		
Energy efficiency class	D 1)	
Energy consumption	38.00 kWh/1000h	
Type of protection	IP65	
Standards	CE / EAC / UKCA	
Photobiological safety group acc. to EN62778	RG1	
Order reference	HQL LED FIL V 6	
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LOGISTICAL DATA		
Temperature range at storage	-20+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)	E40	
Connected light source (CLS)	No	
Color-tuneable light source	No	
Envelope	No	
High luminance light source		
	No	
Anti-glare shield	No No	
Anti-glare shield  Correlated colour temperature type		
	No	

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Height	90.00 mm
Width	90.00 mm
Chromaticity coordinate x	0.382
Chromaticity coordinate y	0,38
R9 Colour rendering index	1
Beam angle correspondence	SPHERE_360
Survival factor	0.9
Displacement factor	0.9
LED light source replaces a fluorescent light source	No
EPREL ID	1371170
Model number	AC46357,AC46357,AC46357

# Safety advice

- 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.
- Only suitable for temperatures of up to 50 °C inside of the luminaire. Use in tight luminaires and luminaires with tight reflectors not recommended.
- All electrical connections must be made by a qualified person.

## **DOWNLOAD DATA**

	Documents and certificates	Document name
PDF	User instruction / safety instructions	HQL LED FILAMENT V
PDF	Legal information	Informationstext 18 Abs 4 ElektroG
PDF	Declarations of conformity	HID LED FILAMENT
PDF	Declarations of conformity UKCA	HID LED FILAMENT

Photometric and lighting design files	Document name
IES file (IES)	HQL LED FIL V 6000LM 38W 840 E40 LEDV
LDT file (Eulumdat)	HQL LED FIL V 6000LM 38W 840 E40 LEDV

Photometric and lighting design file	es Document name
UGR file (UGR table)	HQL LED FIL V 6000LM 38W 840 E40 LEDV
Light distribution curve type polar	HQL LED FIL V 6000LM 38W 840 E40 LEDV
Spectral power distribution	EPREL data spectral diagram PROF LEDr 4000K
Tender texts	Document name
Tender documents	HQL LED FILAMENT V 6000LM 38W 840 E40-en

## LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854071911	Folding box 1	112 mm x 112 mm x 233 mm	291.00 g	2.92 dm <sup>3</sup>
4099854071928	Shipping box 6	356 mm x 242 mm x 263 mm	2163.00 g	22.66 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.