

PRODUCT DATASHEET HQL LED FILAMENT V 5400LM 38W 827 E27

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

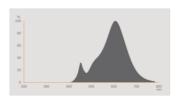
Nominal wattage	38 W	
Construction wattage	38.00 W	
Nominal voltage	220240 V	
Operating mode	CCG, AC Mains	
Claimed equiv. conventional lamp power	125 W	
Nominal current	160 mA	
Type of current	AC	
Inrush current	7.3 A	
Operating frequency	50/60 Hz	
Mains frequency	50/60 Hz	
Max. lamp number on MCB B10 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	5400 lm
Nominal useful luminous flux 90°	5400 lm
Luminous efficacy	142 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

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Stroboscope effect metric (SVM)	0,4
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EPREL data spectral diagram PROF LEDr 2700K

Light technical data

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

Dimensions & Weight



Overall length	217.00 mm
Diameter	90.00 mm
Maximum diameter	90 mm
Product weight	210.00 g

Temperatures & operating conditions

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

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

Lifespan

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)	E27		
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		
Country-specific categorizations Order reference HQL LED FIL V 5			
	HQL LED FIL V 5		
LOGISTICAL DATA			
Temperature range at storage	-20+80 °C		
Energy labelling regulation data acc EU 2019/2015	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	217.00 mm		

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Height	90.00 mm
Width	90.00 mm
Chromaticity coordinate x	0.458
Chromaticity coordinate y	0.41
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	1371167
Model number	AC46354,AC46354,AC46354

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_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.
- 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
POF	User instruction / safety instructions	HQL LED FILAMENT V
POF	Legal information	Informationstext 18 Abs 4 ElektroG
POF	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 5400LM 38W 827 E27 LEDV
LDT file (Eulumdat)	HQL LED FIL V 5400LM 38W 827 E27 LEDV

Photometric and lighting design	n files Document name
UGR file (UGR table)	HQL LED FIL V 5400LM 38W 827 E27 LEDV
Light distribution curve type po	olar HQL LED FIL V 5400LM 38W 827 E27 LEDV
Spectral power distribution	EPREL data spectral diagram PROF LEDr 2700K
Tender texts	Document name
Tender documents	HQL LED FILAMENT V 5400LM 38W 827 E27-en

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854071850	Folding box 1	112 mm x 112 mm x 248 mm	294.00 g	3.11 dm ³
4099854071867	Shipping box	356 mm x 242 mm x 278 mm	2195.00 g	23.95 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.

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