

PRODUCT DATASHEET HQL LED FILAMENT V 2700LM 20W 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)



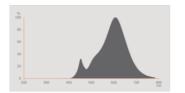
TECHNICAL DATA

Electrical data

Nominal wattage	20 W
Construction wattage	20.00 W
Nominal voltage	220240 V
Operating mode	CCG, AC Mains
Claimed equiv. conventional lamp power	80 W
Nominal current	89 mA
Type of current	AC
Inrush current	4.6 A
Operating frequency	50/60 Hz
Mains frequency	50/60 Hz
Max. lamp number on MCB B10 A	20
Max. lamp number on MCB B10 A - CCG without compensation	20
Max. lamp number on MCB B10 A - CCG with compensation	8
Max. lamp number on MCB B16 A	25
Max. lamp number on MCB B16 A - CCG without compensation	25
Max. lamp number on MCB B16 A - CCG with compensation	14
Total harmonic distortion	15 %
Power factor λ	> 0.90
Surge capability (L-N)	2 kV

Photometrical data

Luminous flux	2700 lm
Nominal useful luminous flux 90°	2700 lm
Luminous efficacy	135 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



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	151.00 mm
Diameter	75.00 mm
Maximum diameter	75 mm
Product weight	83.00 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
Diminable	

Certificates & Standards

Energy efficiency class	D ¹⁾
Energy consumption	20.00 kWh/1000h
Type of protection	IP65
Standards	CE / EAC / UKCA
Photobiological safety group acc. to EN62778	RG1

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

Country-specific categorizations

Order reference	HQL LED FIL V 2
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LOGISTICAL DATA

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	151.00 mm
Height	75.00 mm
Width	75.00 mm

Chromaticity coordinate x	0,463
Chromaticity coordinate y	0,42
R9 Colour rendering index	0.00
Beam angle correspondence	SPHERE_360
Survival factor	0.9
Displacement factor	0.9
LED light source replaces a fluorescent light source	No
EPREL ID	1371163
Model number	AC46350,AC46350,AC46350

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 $t_{\rm C}$ point of the lamp is located on the top side of the lamp.
- Use in tight luminaires and luminaires with tight reflectors not recommended.
- 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	
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 2700LM 20W 827 E27 LEDV	
	LDT file (Eulumdat)	HQL LED FIL V 2700LM 20W 827 E27 LEDV	
1	UGR file (UGR table)	HQL LED FIL V 2700LM 20W 827 E27 LEDV	
	Light distribution curve type polar	HQL LED FIL V 2700LM 20W 827 E27 LEDV	

	Photometric and lighting design files	s Document name	
1	Spectral power distribution	EPREL data spectral diagram PROF LEDr 2700K	
	Tender texts	Document name	
	Tender documents	HQL LED FILAMENT V 2700LM 20W 827 E27-en	

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854071775	Folding box 1	97 mm x 97 mm x 182 mm	140.00 g	1.71 dm ³
4099854071782	Shipping box 6	311 mm x 212 mm x 212 mm	1139.00 g	13.98 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.