

# PRODUCT DATASHEET HQL LED FILAMENT PERFORMANCE 2700LM 14.5W 827 E27

HQL LED FILAMENT PERFORMANCE | 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

- Same design as traditional HQL lamps with frosted, ellipsoid full glass bulb
- Saves up to 82 % energy when used as replacement for mercury vapor lamps (HQL)
- Full use of reflector of existing luminaire thanks to 360 degree beam angle
- Very light weight product
- 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
- Very high efficiency of 185 lm/W
- Power factor: 0.9
- Type of protection: IP65





- High surge protection: up to 4 kV (L-N)
- Very wide ambient temperature range of -20...+60  $^{\circ}\text{C}$

#### TECHNICAL DATA

#### Electrical data

Nominal wattage	14.5 W
Construction wattage	14.50 W
Nominal voltage	220240 V
Operating mode	CCG, AC Mains
Claimed equiv. conventional lamp power	80 W
Nominal current	64 mA
Type of current	AC
Inrush current	3.12 A
Operating frequency	50/60 Hz
Mains frequency	50/60 Hz
Max. lamp number on MCB B10 A	34
Max. lamp number on MCB B10 A - CCG without compensation	33
Max. lamp number on MCB B10 A - CCG with compensation	8
Max. lamp number on MCB B16 A	55
Max. lamp number on MCB B16 A - CCG without compensation	52
Max. lamp number on MCB B16 A - CCG with compensation	11
Total harmonic distortion	< 20 %
Power factor $\lambda$	> 0.90
Surge capability (L-N)	4 kV

#### Photometrical data

Luminous flux	2700 lm
Nominal useful luminous flux 90°	2700 lm
Luminous efficacy	186 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	186.00 mm
Diameter	75.00 mm
Maximum diameter	75 mm
Product weight	123.00 g

# Temperatures & operating conditions

Ambient temperature range	-20+60 °C <sup>1)</sup>
Maximum temperature at tc test point	84 °C

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

# Lifespan

Lifespan L70/B50 at 25 °C	60000 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
2	

#### Certificates & Standards

Energy efficiency class	B 1)
Energy consumption	15.00 kWh/1000h
Type of protection	IP65
Standards	CE / UKCA / EAC / ENEC
Photobiological safety group acc. to EN62778	RG1

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

## Country-specific categorizations

Temperature range at storage

Order reference	HQL LED FIL P 2
LOGISTICAL DATA	

-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)	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	186.00 mm
Height	75.00 mm
Width	75.00 mm
Width	75.00 mm

0.458
0.41
1
SPHERE_360
0.9
0.9
No
2295937
AC69403

#### 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 60 °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		
PDF	Legal information	Informationstext 18 Abs 4 ElektroG	
PDF	Declarations of conformity	FIL P lamp	
PDF	Declarations of conformity UKCA	FIL P lamp	
	Photometric and lighting design files	Document name	
	IES file (IES)	HQL LED FIL P 2700LM 14.5W 827 E27	
	LDT file (Eulumdat)	HQL LED FIL P 2700LM 14.5W 827 E27	
	UGR file (UGR table)	HQL LED FIL P 2700LM 14.5W 827 E27	
	Light distribution curve type polar	HQL LED FIL P 2700LM 14.5W 827 E27	
	Eight distribution our ve type polar		

Photometric and lighting design files		Document name	
Spectral power distribution		EPREL data spectral diagram PROF LEDr 2700K	
Tender texts	Document name		

HQL LED FILAMENT PERFORMANCE 2700LM 14.5W 827 E27-en

# LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854469947	Folding box 1	87 mm x 87 mm x 214 mm	193.00 g	1.62 dm³
4099854469954	Shipping box 6	277 mm x 191 mm x 240 mm	1377.00 g	12.70 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.

#### References / Links

- For Guarantee see www.ledvance.com/guarantee

Tender documents

#### **DISCLAIMER**

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.