

# PRODUCT DATASHEET NAV 50 LED FILAMENT PERFORMANCE 3600LM 19.4W 727 E27

NAV LED FILAMENT PERFORMANCE | LED replacement for NAV 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 NAV lamps with clear, tubular full glass bulb
- Saves up to 62 % energy when used as replacement for sodium vapour lamps (NAV)
- Full use of reflector of existing luminaire thanks to 360 degree beam angle
- Better color rendering and enhanced visibility compared to traditional sodium vapor lamps (NAV)
- Very light weight product
- Low maintenance costs thanks to long lifetime
- Instant 100 % light, no warm-up time

#### Product features

- Suitable for operation with conventional control gear (CCG) for NAV or 230 V mains
- 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 °C

## TECHNICAL DATA

#### Electrical data

Nominal wattage	19.4 W
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Construction wattage	19.40 W
Nominal voltage	220240 V
Operating mode	CCG, AC Mains
Claimed equiv. conventional lamp power	50 W
Nominal current	88 mA
Type of current	AC
Inrush current	7.32 A
Operating frequency	50/60 Hz
Mains frequency	50/60 Hz
Max. lamp number on MCB B10 A	15
Max. lamp number on MCB B10 A - CCG without compensation	31
Max. lamp number on MCB B10 A - CCG with compensation	4
Max. lamp number on MCB B16 A	25
Max. lamp number on MCB B16 A - CCG without compensation	50
Max. lamp number on MCB B16 A - CCG with compensation	6
Total harmonic distortion	< 20 %
Power factor $\lambda$	> 0.90
Surge capability (L-N)	4 kV

## Photometrical data

Luminous flux	3600 lm
Nominal useful luminous flux 90°	3600 lm
Luminous efficacy	185 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	70
Light color	727
Standard deviation of color matching	≤6 sdcm
Rated LLMF at 6,000 h	0.80
Flickering metric (Pst LM)	1



EPREL data spectral diagram PROF LEDr 2700K

# Light technical data

Be	am angle	360 °
Wa	arm-up time (60 %)	< 0.50 s
Sta	arting time	< 0.5 s

#### Dimensions & Weight



Overall length	227.00 mm
Diameter	46.00 mm
Maximum diameter	46 mm
Product weight	140.00 g

# Temperatures & operating conditions

Ambient temperature range	-20+60 °C <sup>1)</sup>
Maximum temperature at tc test point	100 °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
Product remark	Available from September 2025

# Capabilities

## Certificates & Standards

Energy efficiency class	B 1)
Energy consumption	20.00 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

Order reference	NAV 50 LED FIL
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	227.00 mm
Height	46.00 mm
Width	46.00 mm

0.458
0.41
1
SPHERE_360
0.9
0.9
No
2295943
AC69393

#### 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  $\rm t_{C}$  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 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)	NAV 50 LED FIL P 3600LM 19.4W 727 E27
	IES file (IES)  LDT file (Eulumdat)	NAV 50 LED FIL P 3600LM 19.4W 727 E27  NAV 50 LED FIL P 3600LM 19.4W 727 E27
	LDT file (Eulumdat)	NAV 50 LED FIL P 3600LM 19.4W 727 E27

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

NAV LED FILAMENT PERFORMANCE 3600LM 19.4W 727 E27-en

#### LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854469732	Folding box 1	57 mm x 57 mm x 253 mm	185.00 g	0.82 dm <sup>3</sup>
4099854469749	Shipping box 6	187 mm x 131 mm x 275 mm	1300.00 g	6.74 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.