

PRODUCT DATASHEET NAV 50 LED FILAMENT P 4000LM 21W 740 E27

NAV LED FILAMENT P | 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

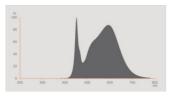
TECHNICAL DATA

Electrical data

Nominal wattage	21 W
Construction wattage	21.00 W
Nominal voltage	220240 V
Operating mode	CCG, AC Mains
Claimed equiv. conventional lamp power	50 W
Nominal current	91 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	27
Max. lamp number on MCB B10 A - CCG without compensation	29
Max. lamp number on MCB B10 A - CCG with compensation	8
Max. lamp number on MCB B16 A	34
Max. lamp number on MCB B16 A - CCG without compensation	46
Max. lamp number on MCB B16 A - CCG with compensation	13
Total harmonic distortion	< 20 %
Power factor λ	> 0.90
Surge capability (L-N)	4 kV

Photometrical data

Luminous flux	4000 lm
Nominal useful luminous flux 90°	4000 lm
Luminous efficacy	190 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	70
Light color	740
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 4000K

Light technical data

Beam angle	360 °
Warm-up time (60 %)	< 0.50 s
Starting 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 ¹⁾
Maximum temperature at tc test point	92 °C

¹⁾ 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 August 2025

Capabilities

Dimmable	No

Certificates & Standards

Energy efficiency class	B 1)
Energy consumption	21.00 kWh/1000h
Type of protection	IP65
Standards	CE / UKCA / EAC / ENEC
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

LOGISTICAL DATA	
Temperature range at storage	-20+80 °C

NAV 50 LED FIL

Energy labelling regulation data acc EU 2019/2015

LED
NDLS
MLS
E27
No
SINGLE_VALUE
No
227.00 mm
46.00 mm
46.00 mm

Chromaticity coordinate x	0.382
Chromaticity coordinate y	0,38
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	2295936
Model number	AC69394

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 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	
POF	Legal information	Informationstext 18 Abs 4 ElektroG	
	Photometric and lighting design files	Document name	
	Spectral power distribution	EPREL data spectral diagram PROF LEDr 4000K	

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854469756	Folding box 1	57 mm x 57 mm x 253 mm	185.00 g	0.82 dm ³
4099854469763	Shipping box	187 mm x 131 mm x 275 mm	1300.00 g	6.74 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.

References / Links

- For Guarantee see www.ledvance.com/guarantee

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