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

NAV LED FILAMENT PERFORMANCE | LED replacement for NAV lamps in demanding outdoor applications



PERFOR-
MANCE
CLASS

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
- Luminous efficacy: up to 210 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
- ENEC-certified safety





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TECHNICAL DATA

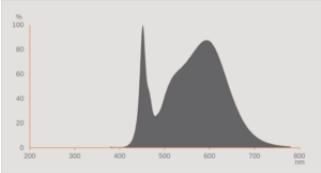
Electrical data

Nominal wattage	21 W
Construction wattage	21.00 W
Nominal voltage	220…240 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	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
Maximum 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
Stroboscope effect metric (SVM)	0.6

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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	100 °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

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Additional product data

Base (standard designation)	E27
Mercury content	0.0 mg
Mercury-free	Yes

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	NAV 50 LED FIL

LOGISTICAL DATA

Temperature range at storage	-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	227.00 mm
Height	46.00 mm
Width	46.00 mm

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Chromaticity coordinate x	0.382
Chromaticity coordinate y	0,38
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	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
PDF	User instruction / safety instructions	
PDF	Legal information	Informationstext 18 Abs 4 ElektroG
PDF	Legal information	Safety Insert G11201307
PDF	Declarations of conformity	FIL P lamp
PDF	Declarations of conformity UKCA	FIL P lamp

	Photometric and lighting design files	Document name
IES	IES file (IES)	NAV 50 LED FIL P 4000LM 21W 740 E27
LDT	LDT file (Eulumdat)	NAV 50 LED FIL P 4000LM 21W 740 E27
	UGR file (UGR table)	NAV 50 LED FIL P 4000LM 21W 740 E27
	Light distribution curve type polar	NAV 50 LED FIL P 4000LM 21W 740 E27

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	Photometric and lighting design files	Document name
	Spectral power distribution	EPREL data spectral diagram PROF LEDr 4000K

	Tender texts	Document name
	Tender documents	NAV LED FILAMENT PERFORMANCE 4000LM 21W 740 E27-en

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 6	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

DISCLAIMER

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