

PRODUCT DATASHEET

NAV 150 LED FILAMENT VALUE 9000LM 45W 727 E40

NAV LED FILAMENT VALUE | LED replacement for NAV 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 NAV lamps with clear, tubular 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 sodium vapor lamps (NAV)
- Instant 100 % light, no warm-up time
- Similar light distribution as traditional NAV lamps

Product features

- Suitable for operation with conventional control gear (CCG) or 230 V AC mains
- Extremely high efficiency of 210 lm/W
- Power factor: 0.9
- Type of protection: IP65
- Surge protection: up to 2 kV (L-N)
- ENEC-certified safety



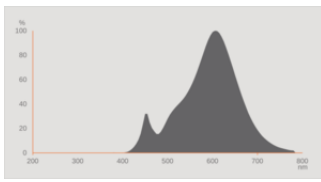
TECHNICAL DATA

Electrical data

Nominal wattage	45 W
Construction wattage	45.00 W
Nominal voltage	220...240 V
Operating mode	CCG, AC Mains
Claimed equiv. conventional lamp power	150 W
Nominal current	195 mA
Type of current	AC
Inrush current	44.6 A
Operating frequency	50/60 Hz
Mains frequency	50/60 Hz
Max. lamp number on MCB B10 A	7
Max. lamp number on MCB B10 A - CCG without compensation	28
Max. lamp number on MCB B10 A - CCG with compensation	20
Max. lamp number on MCB B16 A	9
Max. lamp number on MCB B16 A - CCG without compensation	45
Max. lamp number on MCB B16 A - CCG with compensation	32
Total harmonic distortion	6 %
Power factor λ	> 0.90
Surge capability (L-N)	2 kV

Photometrical data

Luminous flux	9000 lm
Nominal useful luminous flux 90°	9000 lm
Luminous efficacy	200 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
Stroboscope effect metric (SVM)	1.6



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	232.00 mm
Diameter	52.00 mm
Maximum diameter	52 mm
Product weight	195.00 g

Temperatures & operating conditions

Ambient temperature range	-30...+50 °C ¹⁾
Maximum temperature at tc test point	88 °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)	E40
Mercury content	0.0 mg
Mercury-free	Yes
Product remark	Available from April 2026

Capabilities

Dimmable	No
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Certificates & Standards

Energy efficiency class	B ¹⁾
Energy consumption	45.00 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 150 LED FIL
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LOGISTICAL DATA

Temperature range at storage	-30...+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)	E40
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	232.00 mm
Height	52.00 mm




Width	52.00 mm
Chromaticity coordinate x	0,463
Chromaticity coordinate y	0,42
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	2528843
Model number	AC69413,AC69413


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 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
	User instruction / safety instructions	NAV LED FILAMENT V
	Legal information	Informationstext 18 Abs 4 ElektroG
	Legal information	Safety Insert G11201307
	Declarations of conformity	NAV 150 Lamp
	Declarations of conformity UKCA	NAV 150 Lamp
Photometric and lighting design files		Document name
	IES file (IES)	NAV 150 LED FIL V 9000LM 45W727 E40
	LDT file (Eulumdat)	NAV 150 LED FIL V 9000LM 45W727 E40

Photometric and lighting design files		Document name
	UGR file (UGR table)	NAV 150 LED FIL V 9000LM 45W727 E40
	Light distribution curve type polar	NAV 150 LED FIL V 9000LM 45W727 E40
	Spectral power distribution	EPREL data spectral diagram PROF LEDr 2700K

Tender texts		Document name
	Tender documents	NAV LED FILAMENT VALUE 9000LM 45W 727 E40-en

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854472947	Folding box 1	67 mm x 67 mm x 292 mm	315.00 g	1.31 dm ³
4099854472954	Shipping box 6	217 mm x 151 mm x 320 mm	2110.00 g	10.49 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.