PRODUCT DATASHEET
NAV 100 LED FILAMENT AMBER VALUE 3200LM 30W 718 E40

NAV LED FILAMENT AMBER VALUE | LED replacement for NAV lamps in design-oriented outdoor applications with reduced percentage of blue light

VALUE CLASS

Areas of application

- Street and outdoor lighting
- Areas close to nature
- Residential areas
- Parks
- Historic buildings and districts
- Outdoor applications only in suitable luminaires

Product benefits

- Support wildlife protection thanks to very low percentage of blue light
- Support reduction of circadian disruption and improve the residents' life quality
- Better color rendering and enhanced visibility compared to traditional sodium vapor lamps (NAV)
- 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 70 % 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

- Less than 1,5 % of blue light (< 500 nm)
- Very warm light color of 1800 K similar to traditional sodium vapor lamps (NAV)

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- Suitable for operation with conventional control gear (CCG) or 230 V AC mains
- Power factor: 0.9
- Type of protection: IP65
- Surge protection: up to 2 kV (L-N)

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TECHNICAL DATA

Electrical data

Nominal wattage	30 W
Construction wattage	30.00 W
Nominal voltage	220…240 V
Operating mode	CCG, AC Mains
Claimed equiv. conventional lamp power	100 W
Nominal current	125 mA
Type of current	AC
Inrush current	9.7 A
Operating frequency	50/60 Hz
Mains frequency	50/60 Hz
Max. lamp number on MCB B10 A	8
Max. lamp number on MCB B10 A - CCG without compensation	9
Max. lamp number on MCB B10 A - CCG with compensation	3
Max. lamp number on MCB B16 A	12
Max. lamp number on MCB B16 A - CCG without compensation	15
Max. lamp number on MCB B16 A - CCG with compensation	6
Total harmonic distortion	30 %
Power factor λ	> 0.90
Surge capability (L-N)	2 kV

Photometrical data

Luminous flux	3200 lm
Nominal useful luminous flux 90°	3200 lm
Luminous efficacy	106 lm/W
Lumen main.fact.at end of nom.life time	0.70
Light color (designation)	Amber
Color temperature	1800 K
Color rendering index Ra	70
Light color	718
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

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Light technical data

Beam angle	360 °
Warm-up time (60 %)	‹ 0.50 s
Starting time	< 0.5 s

Dimensions & Weight

Overall length	225.00 mm
Diameter	46.00 mm
Maximum diameter	46 mm
Product weight	170.00 g

Temperatures & operating conditions

Ambient temperature range	-20…+50 °C [1)]
Maximum temperature at tc test point	115 °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
Added function	Insect_Wildlife_Protection

Capabilities

Dimmable	No

Certificates & Standards

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Energy consumption	30.00 kWh/1000h
Type of protection	IP65
Standards	CE / UKCA / EAC
Photobiological safety group acc. to EN62778	RG1

Country-specific categorizations

Order reference	NAV100 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)	E40
Connected light source (CLS)	No
Color-tuneable light source	No
Envelope	No
High luminance light source	No
Anti-glare shield	No
Claim of equivalent power	No
Length	225.00 mm
Height	46.00 mm
Width	46.00 mm
Chromaticity coordinate x	0.549
Chromaticity coordinate y	0.408
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

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.

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– 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.
– Not designed as a replacement for conventional lighting in private household.
– Do not touch the lamp if broken.

DOWNLOAD DATA

	Documents and certificates	Document name
PDF	User instruction / safety instructions	NAV LED FILAMENT V
PDF	On-Pack-Info	ELR - exempt lamps
PDF	Legal information	Informationstext 18 Abs 4 ElektroG
PDF	Declarations of conformity	
PDF	Declarations of conformity UKCA	NAV LED FIL Amber

	Photometric and lighting design files	Document name
IES	IES file (IES)	NAV 100 LED FIL V 3200LM 30W 718 E40
LDT	LDT file (Eulumdat)	NAV 100 LED FIL V 3200LM 30W 718 E40
	UGR file (UGR table)	NAV 100 LED FIL V 3200LM 30W 718 E40
	Light distribution curve type polar	NAV 100 LED FIL V 3200LM 30W 718 E40

	Tender texts	Document name
TXT	Tender documents	NAV LED FILAMENT AMBER V 3200LM 30W 718 E40-en

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075843622	Folding box 1	52 mm x 52 mm x 311 mm	241.00 g	0.84 dm^3
4058075843639	Shipping box 6	235 mm x 180 mm x 340 mm	1893.00 g	14.38 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.

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When placing an order, for the quantity please enter single or multiples of a shipping unit.

DISCLAIMER

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