

# PRODUCT DATASHEET

## NAV LED 5400 lm 35 W/2700 K E27

NAV® LED | LED replacement for high-pressure sodium vapor lamps in outdoor applications



### Areas of application

- Streets
- Area lighting
- Pedestrian zones
- Parks

### Product benefits

- Direct retrofit for traditional high-pressure sodium vapor lamps (NAV): operation on CCG, compensation capacitor and ignitor without rewiring
- Saves up to 52 % energy when used as replacement for NAV lamps
- Additional cost savings thanks to compatibility with CCG with power reduction ("night-time switching")
- Low maintenance costs and cost savings thanks to long lifetime
- Similar light distribution as traditional NAV lamps

### Product features

- Very high efficiency of up to 185 lm/W
- System power Factor: > 0.7
- Type of protection: IP40
- High surge protection: up to 4 kV (L-N)
- Long lifetime of up to 50,000h (L70B50)



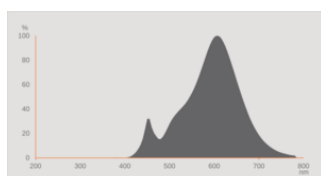
## TECHNICAL DATA

### Electrical data

Nominal wattage	35 W
Construction wattage	35.00 W
Nominal voltage	70...110 V
Claimed equiv. conventional lamp power	70 W
Nominal current	790 mA
Type of current	AC
Operating frequency	50 Hz
Mains frequency	50 Hz
Total harmonic distortion	≤ 25 %
Power factor $\lambda$	0.70

### Photometrical data

Luminous flux	5400 lm
Nominal useful luminous flux 90°	5400 lm
Luminous efficacy	154 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 sdcn
Rated LLMF at 6,000 h	0.80



### Light technical data

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

Starting time	< 0.5 s
Rated beam angle (half peak value)	360.00 °

### Dimensions & Weight

Overall length	190.00 mm
Diameter	70.00 mm
Maximum diameter	70 mm
Product weight	455.00 g

### Temperatures & operating conditions

Ambient temperature range	-20...+50 °C
Maximum temperature at tc test point	95 °C

### Lifespan

Nominal lamp life time	50000 h
Number of switching cycles	100000
Lumen maintenance at end of serv	0.70
Rated lamp survival factor at 6,000	≥ 0.90

### Additional product data

Base (standard designation)	E27
Mercury content	0.0 mg

### Capabilities

Dimmable	No
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### Certificates & Standards

Energy efficiency class	D 1)
Energy consumption	39.00 kWh/1000h
Type of protection	IP40
Standards	CE
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 70 LED 35W/
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## 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	NMLS
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	190.00 mm
Height	70.00 mm
Width	70.00 mm
Chromaticity coordinate x	0.458
Chromaticity coordinate y	0.410
Beam angle	SPHERE_360
Survival factor	0.90
Displacement factor	0.70
LED light source replaces a fluorescent light source	not applicable
EPREL ID	503810
Model number	AC33069

## Safety advice

- Outdoor applications only in suitable luminaires (lamp type of protection IP40).
- The compliance with the required luminous intensity for the application has to be checked before the installation. The total energy efficiency and light distribution depends on the lighting system design.
- Not suitable for operation with 230 V line voltage.
- The operation on a CCG with power tapping may lead to a reduction of the power factor of the system during the time of power reduction. The removal of the compensation capacitor may lead to a reduction of the power factor of the system.
- Only suitable for temperatures of up to 50°C inside of the luminaire. Use in tight luminaires and luminaires with tight reflectors not recommended.

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NAV LED

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**LOGISTICAL DATA**

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075453722	Folding box 1	85 mm x 85 mm x 198 mm	459.00 g	1.43 dm <sup>3</sup>
4058075453739	Shipping box 10	442 mm x 193 mm x 225 mm	8790.00 g	19.19 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.

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**DISCLAIMER**

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.