

## PRODUCT DATASHEET

### PIN 20 320 ° 2 W/2700 K G4

LED PIN 12 V DIM | Dimmable low-voltage 12 V LED lamps with retrofit pin base



#### Areas of application

- Decorative applications
- Atmospheric accent lighting throughout the home
- Outdoor use in suitable outdoor luminaires only

#### Product benefits

- Variable use at Direct Current and Alternating Current
- Good all-around light emission
- Ideal for decorative and free-burning applications
- Very long lifetime of up to 25,000 h
- Four year guarantee

#### Product features

- Dimmable (with many common dimmers, see also [www.ledvance.com/dim](http://www.ledvance.com/dim))
- Compatible with many common conventional and electronic control gears (see also compatibility list)
- LED alternative to low voltage halogen lamps
- Base: G4, GY6.35



## TECHNICAL DATA

### Electrical data

Nominal wattage	2 W
Construction wattage	2.00 W
Nominal voltage	12 V
Claimed equiv. conventional lamp power	20 W
Nominal current	190 mA
Type of current	AC/DC
Inrush current	2.5 A
Operating frequency	50/60 Hz
Mains frequency	50/60 Hz
Max. lamp no. on circuit break. 10 A (B)	47
Max. lamp no. on circuit break. 16 A (B)	76
Total harmonic distortion	< 150 %
Power factor $\lambda$	> 0.50

### Photometrical data

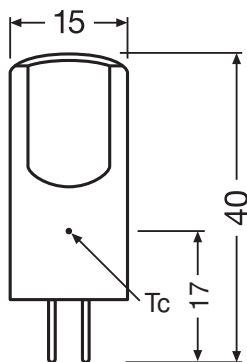
Luminous intensity	not applicable
Luminous flux	200 lm
Nominal useful luminous flux 90°	200 lm
Luminous efficacy	100 lm/W
Lumen main.fact.at end of nom.life time	0.70
Light color (designation)	Warm White
Color temperature	2700 K
Color rendering index Ra	≥80
Light color	827
Standard deviation of color matching	≤6 sdcn
Rated LLMF at 6,000 h	0.80
Flickering metric (Pst LM)	1.0
Stroboscope effect metric (SVM)	0.4



### Light technical data

Beam angle	320 °
Warm-up time (60 %)	< 0.50 s
Starting time	< 0.5 s
Rated beam angle (half peak value)	320.00 °

### Dimensions & Weight



Overall length	40.00 mm
Diameter	15,0 mm
Maximum diameter	15 mm
Product weight	5.5 g

### Temperatures & operating conditions

Ambient temperature range	-20...+40 °C
Maximum temperature at tc test point	90 °C

## Lifespan

Lifespan	25000 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)	G4
Mercury content	0.0 mg
Mercury-free	Yes
Design / version	Clear
Product remark	All technical parameters apply to the entire lamp / Due to the complex production process for light-emitting diodes, the typical values shown for the technical LED parameters are purely statistical values that do not necessarily match the actual technical parameters of each individual product, which can vary from the typical value

## Capabilities

Dimmable	Yes
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## Certificates & Standards

Energy efficiency class	F 1)
Energy consumption	2.00 kWh/1000h
Type of protection	IP20
Standards	CE / EAC
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	LEDPIN20D CL 2W
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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)	G4
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
Standby power	0.00
Networked standby power for CLS	0 W
Claim of equivalent power	Yes
Length	40.00 mm
Height	15,0 mm
Width	15,0 mm
Chromaticity coordinate x	0.458
Chromaticity coordinate y	0.410
R9 Colour rendering index	0.00
Beam angle correspondence	SPHERE_360
Survival factor	0.90
Displacement factor	0.5
LED light source replaces a fluorescent light source	No
EPREL ID	1402999,522864
Model number	AC32099,AC17652

### Safety advice

- To ensure full light efficiency and product lifetime, it is recommended to detach any glass or cover of the luminaire.

### DOWNLOAD DATA

DOWNLOAD DATA	
	Declarations Of Conformity CE

### LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
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Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075431904	Folding box 1	20 mm x 49 mm x 95 mm	12.50 g	0.09 dm <sup>3</sup>
4058075622630	Shipping box 6	109 mm x 79 mm x 104 mm	99.00 g	0.90 dm <sup>3</sup>
4058075431911	Shipping box 10	119 mm x 109 mm x 104 mm	160.00 g	1.35 dm <sup>3</sup>
4058075431928	Shipping box 80	256 mm x 236 mm x 237 mm	1668.00 g	14.32 dm <sup>3</sup>
4058075622647	Shipping box 48	236 mm x 176 mm x 237 mm	1168.00 g	9.84 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.

### References / Links

- For dimming conformity see [www.ledvance.com/dim](http://www.ledvance.com/dim)
- For Guarantee see [www.ledvance.com/guarantee](http://www.ledvance.com/guarantee)

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