# PRODUCT DATASHEET
# LED TUBE T9 C 40 EM V 24W 865 G10Q

## LED TUBE T9 EM V | Circular LED tube for electromagnetic control gear (CCG) and AC mains



VALUE CLASS

### Areas of application

- General illumination within ambient temperatures from -20...+45 °C
- Corridors, stairways, parking garages
- Domestic applications
- Decorative applications

### Product benefits

- Quick, simple and safe replacement without rewiring
- Energy savings of up to 50% (compared to T9 fluorescent lamp)
- Also suitable for operation at low temperatures
- Operation directly on 230 V AC mains possible

### Product features

- LED alternative to classic T9 fluorescent lamps in CCG luminaires
- Uniform illumination
- Lifetime: up to 30,000 h
- Mercury-free and RoHS compliant







© 2024, LEDVANCE GmbH. All rights reserved.

## TECHNICAL DATA

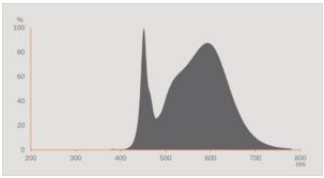
### Electrical data

| | |
|---|---|
| Nominal wattage | 24 W |
| Construction wattage | 24.00 W |
| Nominal voltage | 220...240 V |
| Operating mode | CCG, AC Mains |
| Nominal current | 107 mA |
| Type of current | AC |
| Inrush current | 16 A |
| Operating frequency | 50/60 Hz |
| Mains frequency | 50/60 Hz |
| Max. lamp no. on circuit break. 10 A (B) | 16 |
| Max. lamp no. on circuit break. B10 A - CCG without compensation | 37 |
| Max. lamp no. on circuit break. B10 A - CCG with compensation | 11 |
| Max. lamp no. on circuit break. 16 A (B) | 19 |
| Max. lamp no. on circuit break. B16 A - CCG without compensation | 66 |
| Max. lamp no. on circuit break. B16 A - CCG with compensation | 14 |
| Total harmonic distortion | < 20 % |
| Power factor λ | > 0.90 |

### Photometrical data

| | |
|---|---|
| Luminous flux | 2900 lm |
| Luminous efficacy | 120 lm/W |
| Lumen main.fact.at end of nom.life time | 0.96 |
| Light color (designation) | Cool Daylight |
| Color temperature | 6500 K |
| Color rendering index Ra | 80 |
| Light color | 865 |
| 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 |


© 2024, LEDVANCE GmbH. All rights reserved.



## Light technical data

| | |
|---|---|
| Beam angle | 110 ° |
| Warm-up time (60 %) | 0.00 s |
| Starting time | < 0.5 s |

## Dimensions & Weight



| | |
|---|---|
| Overall length | 400.00 mm |
| Diameter | 400.00 mm |
| Tube diameter | 30 mm |
| Maximum diameter | 400 mm |
| Product weight | 290.00 g |

## Temperatures & operating conditions

| | |
|---|---|
| Ambient temperature range | -20…+45 °C |
| Maximum temperature at tc test point | 75 °C |

## Lifespan

| | |
|---|---|
| Lifespan L70/B50 at 25 °C | 30000 h |
| Number of switching cycles | 200000 |
| Lumen maintenance at end of service lifetime | 0.96 |
| Rated lamp survival factor at 6,000 h | ≥ 0.90 |

## Additional product data

| | |
|---|---|
| Base (standard designation) | G10q |


© 2024, LEDVANCE GmbH. All rights reserved.

| | |
|---|---|
| Mercury content | 0.0 mg |
| Mercury-free | Yes |

## Capabilities

| | |
|---|---|
| Dimmable | No |

## Certificates & Standards

| | |
|---|---|
| Energy efficiency class | E [1)] |
| Energy consumption | 24.00 kWh/1000h |
| Type of protection | IP20 |
| Standards | CE / EAC / UKCA |
| Photobiological safety group acc. to EN62778 | RG0 |

1) Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency)

## Country-specific categorizations

| | |
|---|---|
| Order reference | LEDTUBE T9C EM |

## 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) | G10q |
| 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 | Yes |
| Length | 400.00 mm |
| Height | 400.00 mm |
| Width | 400.00 mm |
| Chromaticity coordinate x | 0.3123 |
| Chromaticity coordinate y | 0.3282 |


© 2024, LEDVANCE GmbH. All rights reserved.

| | |
|---|---|
| R9 Colour rendering index | 0.00 |
| Beam angle correspondence | SPHERE_360 |
| Survival factor | 0.9 |
| Displacement factor | 0.9 |
| LED light source replaces a fluorescent light source | No |
| EPREL ID | 1340171 |
| Model number | AC45077 |

## Safety advice

- Not suitable for operation with electronic control gear.
- Operation in outdoor applications in suitable damp-proof luminaires possible according to data sheet and installation instruction.

## DOWNLOAD DATA

| | Documents and certificates |
|---|---|
| PDF | User instruction |
| PDF | Declarations Of Conformity CE |
| PDF | Declarations Of Conformity UKCA |

| | Photometric and lighting design files |
|---|---|
| IES | IES file (IES) |
| LDT | LDT file (Eulumdat) |
| | UGR file (UGR table) |
| | LDC typ cone |
| | LDC typ polar |
| | Spectral power distribution |

## LOGISTICAL DATA


© 2024, LEDVANCE GmbH. All rights reserved.

| Product code | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume |
|---|---|---|---|---|
| 4099854042584 | Folding box<br>1 | 38 mm x 408 mm x 413 mm | 425.00 g | 6.40 $dm^3$ |
| 4099854042591 | Shipping box<br>10 | 425 mm x 390 mm x 435 mm | 5242.00 g | 72.10 $dm^3$ |

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 current information see www.ledvance.com/ledtube

## Legal advice

- When used to replace a T9 fluorescent lamp the total energy efficiency and light distribution depends on the design of the lighting system.

## DISCLAIMER

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


© 2024, LEDVANCE GmbH. All rights reserved.