



# PRODUCT DATASHEET

## LED TUBE T8 EM CONNECTED P 1500 mm 24W 865

LED TUBE T8 EM CONNECTED P | LED tube for electromagnetic control gear (CCG) works with Connected Sensors, shatterproof



### Areas of application

- General illumination within ambient temperatures from -20...+50 °C
- Parking lots, warehouses, production areas
- Industry
- Offices

### Product benefits

- No bending thanks to glass technology
- Shatter protection thanks to special PET coating
- Short payback period thanks to low energy consumption and maintenance costs

### Product features

- Network protocol: ZigBee 3.0 (2.4 GHz mesh network)
- LED TUBE T8 EM Connected can be only operated with LEDVANCE Connected Sensor



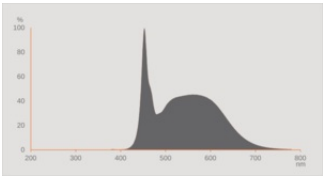
## TECHNICAL DATA

### 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                                                   | 3 A           |
| Operating frequency                                              | 50/60 Hz      |
| Mains frequency                                                  | 50/60 Hz      |
| Max. lamp no. on circuit break. 10 A (B)                         | 65            |
| Max. lamp no. on circuit break. B10 A - CCG without compensation | 65            |
| Max. lamp no. on circuit break. B10 A - CCG with compensation    | 14            |
| Max. lamp no. on circuit break. 16 A (B)                         | 105           |
| Max. lamp no. on circuit break. B16 A - CCG without compensation | 105           |
| Max. lamp no. on circuit break. B16 A - CCG with compensation    | 24            |
| Total harmonic distortion                                        | < 20 %        |
| Power factor $\lambda$                                           | 0.90          |

### Photometrical data

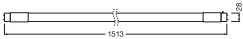
|                                         |               |
|-----------------------------------------|---------------|
| Luminous flux                           | 3600 lm       |
| Luminous efficacy                       | 150 lm/W      |
| Lumen main.fact.at end of nom.life time | 0.70          |
| Light color (designation)               | Cool Daylight |
| Color temperature                       | 6500 K        |
| Color rendering index Ra                | 80            |
| Light color                             | 865           |
| Standard deviation of color matching    | $\leq 5$ sdcn |
| Rated LLMF at 6,000 h                   | 0.90          |
| Flickering metric (Pst LM)              | 1             |
| Stroboscope effect metric (SVM)         | 0.4           |



Light technical data

|                     |          |
|---------------------|----------|
| Beam angle          | 190 °    |
| Warm-up time (60 %) | < 2.00 s |
| Starting time       | < 0.5 s  |

Dimensions & Weight



|                                             |            |
|---------------------------------------------|------------|
| Overall length                              | 1513.00 mm |
| Length with base excl. base pins/connection | 1500 mm    |
| Diameter                                    | 28.00 mm   |
| Tube diameter                               | 26,5 mm    |
| Base diameter                               | 28 mm      |
| Maximum diameter                            | 28 mm      |
| Product weight                              | 252.00 g   |

Temperatures & operating conditions

|                                      |              |
|--------------------------------------|--------------|
| Ambient temperature range            | -20...+50 °C |
| Maximum temperature at tc test point | 85 °C        |

Lifespan

|                                              |         |
|----------------------------------------------|---------|
| Lifespan L70/B50 at 25 °C                    | 50000 h |
| Number of switching cycles                   | 200000  |
| 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) | G13     |
| Mercury content             | 0.0 mg  |
| Mercury-free                | Yes     |
| Design / version            | Frosted |

### Capabilities

|          |                   |
|----------|-------------------|
| Dimmable | Yes <sup>1)</sup> |
|----------|-------------------|

<sup>1)</sup> Only dimmable with LEDVANCE Connected Sensor

### Certificates & Standards

|                                              |                 |
|----------------------------------------------|-----------------|
| Energy efficiency class                      | D <sup>1)</sup> |
| Energy consumption                           | 24.00 kWh/1000h |
| Type of protection                           | IP20            |
| Standards                                    | CE / UKCA       |
| Photobiological safety group acc. to EN62778 | RG0             |

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

### Country-specific categorizations

|                 |                 |
|-----------------|-----------------|
| Order reference | LEDTUBE T8 EM C |
|-----------------|-----------------|

### 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) | G13          |
| Connected light source (CLS)                        | Yes          |
| Color-tuneable light source                         | No           |
| Envelope                                            | No           |
| High luminance light source                         | No           |
| Anti-glare shield                                   | No           |
| Correlated colour temperature type                  | SINGLE_VALUE |
| Standby power                                       | <0.5 W       |
| Claim of equivalent power                           | No           |

|                                                      |            |
|------------------------------------------------------|------------|
| Length                                               | 1513.00 mm |
| Height                                               | 28.00 mm   |
| Width                                                | 28.00 mm   |
| Chromaticity coordinate x                            | 0.312      |
| Chromaticity coordinate y                            | 0.328      |
| 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                                             | 1399433    |
| Model number                                         | AC46523    |

### 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.
- The operating temperature range of LED tube is restricted. In case of doubt regarding suitability of the application please measure Tc max temperature on the product prior to installation.

### DOWNLOAD DATA

| Documents and certificates                                                          |                                 |
|-------------------------------------------------------------------------------------|---------------------------------|
|   | User instruction                |
|   | Declarations Of Conformity CE   |
|   | Declarations Of Conformity UKCA |
| Photometric and lighting design files                                               |                                 |
|  | IES file (IES)                  |
|  | LDT file (Eulumdat)             |
|  | UGR file (UGR table)            |
|   | LDC typ cone                    |
|   | LDC typ polar                   |

## Photometric and lighting design files



Spectral power distribution

## LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume                |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4058075824034 | Sleeve<br>1                  | 1,605 mm x 29 mm x 29 mm             | 286.00 g     | 1.35 dm <sup>3</sup>  |
| 4058075824041 | Shipping box<br>10           | 1,652 mm x 210 mm x 115 mm           | 3702.00 g    | 39.90 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 current information see [www.ledvance.com/ledtube](http://www.ledvance.com/ledtube)

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