

# PRODUCT DATASHEET

## LED TUBE T8 EM CONNECTED 600 mm

### 7.5W 865

LED TUBE T8 EM CONNECTED | 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

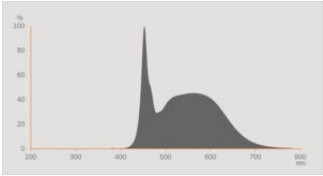
### Electrical data

|                                                          |                           |
|----------------------------------------------------------|---------------------------|
| Nominal wattage                                          | 7.5 W                     |
| Nominal voltage                                          | 220...240 V               |
| Operating mode                                           | CCG, AC Mains             |
| Nominal current                                          | 38 mA                     |
| Type of current                                          | AC                        |
| Inrush current                                           | 3 A                       |
| Suitable for DC input                                    | Yes                       |
| Input voltage DC                                         | 186...260 V <sup>1)</sup> |
| Operating frequency                                      | 50/60 Hz                  |
| Mains frequency                                          | 50/60 Hz                  |
| Max. lamp number on MCB B10 A                            | 200                       |
| Max. lamp number on MCB B10 A - CCG without compensation | 200                       |
| Max. lamp number on MCB B10 A - CCG with compensation    | 18                        |
| Max. lamp number on MCB B16 A                            | 320                       |
| Max. lamp number on MCB B16 A - CCG without compensation | 320                       |
| Max. lamp number on MCB B16 A - CCG with compensation    | 30                        |
| Total harmonic distortion                                | < 20 %                    |
| Power factor $\lambda$                                   | 0.90                      |

1) Permitted voltage range

### Photometrical data

|                                         |                     |
|-----------------------------------------|---------------------|
| Luminous flux                           | 1100 lm             |
| Luminous efficacy                       | 146 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    | ≤5 sdc <sub>m</sub> |
| Rated LLMF at 6,000 h                   | 0.90                |
| Flickering metric (Pst LM)              | 1                   |
| Stroboscope effect metric (SVM)         | 0.4                 |

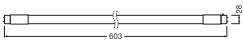


EPREL data spectral diagram PROF  
LEDr 6500K

Light technical data

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

Dimensions & Weight



|                                             |           |
|---------------------------------------------|-----------|
| Overall length                              | 603.00 mm |
| Length with base excl. base pins/connection | 600 mm    |
| Diameter                                    | 28.00 mm  |
| Base diameter                               | 28 mm     |
| Product weight                              | 117.00 g  |

Temperatures & operating conditions

|                                      |                            |
|--------------------------------------|----------------------------|
| Ambient temperature range            | -20...+50 °C <sup>1)</sup> |
| Maximum temperature at tc test point | 65 °C                      |

1) Temperature surrounding the lamp - for enclosed luminaires: temperature inside of the luminaire

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                           | 8.00 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                                               | 603.00 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                                             | 1399435    |
| Model number                                         | AC46519    |

### Accessories Mandatory

| Product image                                                                       | Product name                    | EAN           |
|-------------------------------------------------------------------------------------|---------------------------------|---------------|
|   | CONNECTED SENSOR HB             | 4058075232983 |
|  | CONNECTED SENSOR LB             | 4058075232969 |
|  | CONNECTED SENSOR REMOTE CONTROL | 4058075374034 |

### 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 temperature on the product prior to installation.
- All electrical connections must be made by a qualified person.
- Disconnect mains before installation.
- Not suitable for emergency lighting.

### DOWNLOAD DATA

| Documents and certificates                                                         |                                        | Document name                                 |
|------------------------------------------------------------------------------------|----------------------------------------|-----------------------------------------------|
|    | User instruction / safety instructions | LEDTUBE T8 EM CON P                           |
|    | Legal information                      | Informationstext 18 Abs 4 ElektroG            |
|    | Declarations of conformity             | LED TUBES T8 EM CON                           |
|    | Declarations of conformity UKCA        | LED TUBES T8 EM CON                           |
| Photometric and lighting design files                                              |                                        | Document name                                 |
|    | IES file (IES)                         | LEDTUBE T8 EM CON P 600 7.5W 865 LEDV         |
|    | LDT file (Eulumdat)                    | LEDTUBE T8 EM CON P 600 7.5W 865 LEDV         |
|    | UGR file (UGR table)                   | LEDTUBE T8 EM CON P 600 7.5W 865 LEDV         |
|    | Light distribution curve type polar    | LEDTUBE T8 EM CON P 600 7.5W 865 LEDV         |
|  | Spectral power distribution            | EPREL data spectral diagram PROF LEDr 6500K   |
| Tender texts                                                                       |                                        | Document name                                 |
|  | Tender documents                       | LED TUBE T8 EM CONNECTED P 600 mm 7.5W 865-EN |

## LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume                |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4058075823952 | Sleeve<br>1                  | 695 mm x 29 mm x 29 mm               | 135.00 g     | 0.58 dm <sup>3</sup>  |
| 4058075823969 | Shipping box<br>10           | 742 mm x 210 mm x 115 mm             | 1779.00 g    | 17.92 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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