

# PRODUCT DATASHEET

## LED T5 FC 40/55 EXTERNAL 21.5W 830 2GX13

LED T5 FC EXTERNAL | LED T5 FC EXTERNAL for LED DRIVER DALI



### Areas of application

- Shops, hotels and restaurants
- Public buildings

### Product benefits

- Compatible with LED driver DR DALI-P -30/220-240/700 and DR DALI-P -42/220-240/1A0 (4058075845367, 4058075845381)
- Simple upgrade to dimmable LED system
- Hassle free application, no ballast compatibility check necessary
- 5 years guarantee

### Product features

- Designed to power with LED DRIVER DALI PERFORMANCE
- Single-ended round LED lamp
- Suitable illumination within ambient temperatures from -20...+45 °C
- Lifetime (L70/B50) up to 50,000 h (at 25 °C)
- LED replacement for traditional T5 fluorescent circular lamps



TECHNICAL DATA

Electrical data

|                           |                     |
|---------------------------|---------------------|
| Nominal wattage           | 21.5 W              |
| Nominal voltage           | 33 V                |
| Operating mode            | EXT                 |
| Nominal current           | 650 mA              |
| Type of current           | DC                  |
| Inrush current            | 3.3 A <sup>1)</sup> |
| Operating frequency       | 0 Hz                |
| Mains frequency           | 0 Hz                |
| Total harmonic distortion | < 20 %              |
| Power factor $\lambda$    | 0.90                |

1) @Th50 220us

Photometrical data

|                                         |                     |
|-----------------------------------------|---------------------|
| Luminous flux                           | 2900 lm             |
| Luminous efficacy                       | 134 lm/W            |
| Lumen main.fact.at end of nom.life time | 0.70                |
| Light color (designation)               | Warm White          |
| Color temperature                       | 3000 K              |
| Color rendering index Ra                | 80                  |
| Light color                             | 830                 |
| 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 3000K

Light technical data

|                     |          |
|---------------------|----------|
| Beam angle          | 120 °    |
| Warm-up time (60 %) | ˂ 2.00 s |
| Starting time       | < 1.0 s  |

Dimensions & Weight



|                                             |           |
|---------------------------------------------|-----------|
| Overall length                              | 300.00 mm |
| Length with base excl. base pins/connection | 300,00 mm |
| Diameter                                    | 16.50 mm  |
| Product weight                              | 121.00 g  |

Temperatures & operating conditions

|                                      |                 |
|--------------------------------------|-----------------|
| Ambient temperature range            | -20...+45 °C 1) |
| Maximum temperature at tc test point | 67 °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) | 2GX13  |
| Mercury content             | 0.0 mg |
| Mercury-free                | Yes    |

Capabilities

|          |     |
|----------|-----|
| Dimmable | Yes |
|----------|-----|

Certificates & Standards

|                                              |                 |
|----------------------------------------------|-----------------|
| Energy efficiency class                      | E <sup>1)</sup> |
| Energy consumption                           | 22.00 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 | LEDT5 FC40/55 E |
|-----------------|-----------------|

### 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                                   | NMLS         |
| Light source cap-type (or other electric interface)  | 2GX13        |
| 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 W          |
| Claim of equivalent power                            | No           |
| Length                                               | 300.00 mm    |
| Height                                               | 16.50 mm     |
| Width                                                | 16.50 mm     |
| Chromaticity coordinate x                            | 0,433        |
| Chromaticity coordinate y                            | 0,403        |
| R9 Colour rendering index                            | 1            |
| Beam angle correspondence                            | SPHERE_360   |
| Survival factor                                      | 0,90         |
| Displacement factor                                  | 0,90         |
| LED light source replaces a fluorescent light source | No           |

|              |         |
|--------------|---------|
| EPREL ID     | 1956104 |
| Model number | AC63042 |

### Accessories Mandatory

| Product image                                                                     | Product name              | EAN           |
|-----------------------------------------------------------------------------------|---------------------------|---------------|
|  | DR DALI-P -30/220-240/700 | 4058075845367 |
|  | DR DALI-P -42/220-240/1A0 | 4058075845381 |

### Safety advice

- Suitable for indoor applications.
- 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.
- Not suitable for operation with 230 V line voltage or electronic control gear.
- Disconnect mains before installation.

### DOWNLOAD DATA

| Documents and certificates                                                         |                                        | Document name                             |
|------------------------------------------------------------------------------------|----------------------------------------|-------------------------------------------|
|  | User instruction / safety instructions | LEDT5 FC22 FC40/55 EXT P                  |
|  | Extended installation guide            | LEDVANCE Luminaire conversion checklist   |
|  | Legal information                      | Informationstext 18 Abs 4 ElektroG        |
|  | Declarations of conformity             | LED T5 FC EXT                             |
|  | Declarations of conformity UKCA        | LED T5 FC EXT                             |
| Photometric and lighting design files                                              |                                        | Document name                             |
|  | IES file (IES)                         | LED T5 EXT FC40 55 P 21.5W 830 2GX13 LEDV |

| Photometric and lighting design files                                            |                                     | Document name                               |
|----------------------------------------------------------------------------------|-------------------------------------|---------------------------------------------|
|  | LDT file (Eulumdat)                 | LED T5 EXT FC40 55 P 21.5W 830 2GX13 LEDV   |
|  | UGR file (UGR table)                | LED T5 EXT FC40 55 P 21.5W 830 2GX13 LEDV   |
|  | Light distribution curve type cone  | LED T5 EXT FC40 55 P 21.5W 830 2GX13 LEDV   |
|  | Light distribution curve type polar | LED T5 EXT FC40 55 P 21.5W 830 2GX13 LEDV   |
|  | Spectral power distribution         | EPREL data spectral diagram PROF LEDr 3000K |
| Tender texts                                                                     |                                     | Document name                               |
|  | Tender documents                    | LED T5 FC EXTERNAL P 21.5W 830 2GX13-EN     |

## LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume                |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4099854300868 | Folding box<br>1             | 26 mm x 307 mm x 308 mm              | 229.00 g     | 2.46 dm <sup>3</sup>  |
| 4099854300875 | Shipping box<br>10           | 325 mm x 274 mm x 333 mm             | 2904.00 g    | 29.65 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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