

# Contractor-grade MainsFit (UL Type-B) T8

## 14.5T8/CNG/48-835/MF17/G 25/1

The Contractor-grade MainsFit (UL Type B) lamps are designed to provide simple retrofit solution to move from traditional fluorescent lamps to energy saving LEDs. This ballast bypass lamp is similar to other UL Type B lamps in the Philips family by providing proven energy savings, long life (50k hours), surge suppression and industry leading safety features. All lamps in the Contractor-grade family are also double-ended to help simplify the installation.

#### **Product data**

| General Information                |                                 |  |  |  |  |
|------------------------------------|---------------------------------|--|--|--|--|
| Cap-Base                           | G13 [Medium Bi-Pin Fluorescent] |  |  |  |  |
| Nominal lifetime                   | 50,000 hour(s)                  |  |  |  |  |
| Switching Cycle                    | 50,000                          |  |  |  |  |
| Lighting Technology                | LED                             |  |  |  |  |
|                                    |                                 |  |  |  |  |
| Light Technical                    |                                 |  |  |  |  |
| Color Code                         | 835 [CCT of 3500K]              |  |  |  |  |
| Beam Angle (Nom)                   | 240 degree(s)                   |  |  |  |  |
| Luminous Flux                      | 1,750 lm                        |  |  |  |  |
| Color Designation                  | White (WH)                      |  |  |  |  |
| Correlated Color Temperature (Nom) | 3500 K                          |  |  |  |  |
| Luminous Efficacy (rated) (Nom)    | 120.00 lm/W                     |  |  |  |  |
| Color Consistency                  | <6                              |  |  |  |  |
| Color rendering index (CRI)        | 80                              |  |  |  |  |

| LLMF At End Of Nominal Lifetime (Nom) 70 % |             |  |  |  |
|--|-------------|--|--|--|
|  |             |  |  |  |
| Operating and Electrical                   |             |  |  |  |
| Line Frequency                             | 50 to 60 Hz |  |  |  |
| Input Frequency                            | 50 to 60 Hz |  |  |  |
| Power Consumption                          | 14.5 W      |  |  |  |
| Lamp Current (Max)                         | 125 mA      |  |  |  |
| Lamp Current (Min)                         | 58 mA       |  |  |  |
| Wattage Equivalent                         | 32 W        |  |  |  |
| Starting Time (Nom)                        | 0.5 s       |  |  |  |
| Warm-up time to 60% light                  | 0.5 s       |  |  |  |
| Power Factor (Fraction)                    | 0.9         |  |  |  |
| Voltage (Nom)                              | 120-277 V   |  |  |  |
| UL Type                                    | UL Type B   |  |  |  |
|  |             |  |  |  |

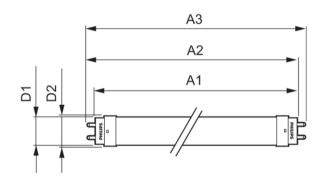
Datasheet, 2025, April 7 data subject to change

## Contractor-grade MainsFit (UL Type-B) T8

| Temperature              |                                    |  |  |  |  |
|--------------------------|------------------------------------|--|--|--|--|
| T-Case Maximum (Nom)     | 70 °C                              |  |  |  |  |
|                          |                                    |  |  |  |  |
| Controls and Dimming     |                                    |  |  |  |  |
| Dimmable                 | Limited                            |  |  |  |  |
|                          |                                    |  |  |  |  |
| Mechanical and Housing   |                                    |  |  |  |  |
| Bulb Finish              | Frosted                            |  |  |  |  |
| Bulb Material            | Glass                              |  |  |  |  |
| Product Length           | 1,200 mm                           |  |  |  |  |
| Bulb Shape               | Т8                                 |  |  |  |  |
| Net Weight (Piece)       | 0.190 kg                           |  |  |  |  |
|                          |                                    |  |  |  |  |
| Approval and Application |                                    |  |  |  |  |
| Energy Saving Product    | Yes                                |  |  |  |  |
| Approval Marks           | RoHS compliance UL certificate DLC |  |  |  |  |
|                          | compliance                         |  |  |  |  |

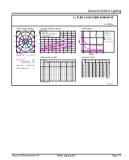
| EU RoHS compliant                  | Yes                           |  |  |  |  |
|------------------------------------|-------------------------------|--|--|--|--|
| Ambient temperature range          | -20 °C to 45 °C               |  |  |  |  |
|                                    |                               |  |  |  |  |
| Application Conditions             |                               |  |  |  |  |
| an it be used in closed luminaires | Yes                           |  |  |  |  |
|                                    |                               |  |  |  |  |
| Product Data                       |                               |  |  |  |  |
| Order product name                 | 14.5T8/CNG/48-835/MF17/G 25/1 |  |  |  |  |
| Full product name                  | 14.5T8/CNG/48-835/MF17/G 25/1 |  |  |  |  |
| Order code                         | 929003474504                  |  |  |  |  |
| Material Nr. (12NC)                | 929003474504                  |  |  |  |  |
| Numerator - Quantity Per Pack      | 1                             |  |  |  |  |
| EAN/UPC - Product/Case             | 046677577766                  |  |  |  |  |
| Numerator - Packs per outer box    | 25                            |  |  |  |  |
| AN/UPC - Case                      | 50046677577761                |  |  |  |  |

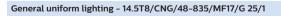
## Dimensional drawing

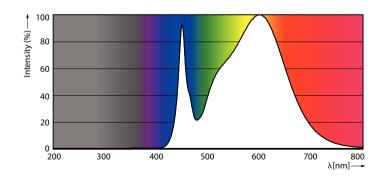


| Product                  | D1      | D2    | A1         | A2         | А3         |
|--------------------------|---------|-------|------------|------------|------------|
| 14.5T8/CNG/48-835/MF17/G | 25.7 mm | 28 mm | 1,198.2 mm | 1,205.3 mm | 1,212.4 mm |
| 25/1                     |         |       |            |            |            |

## Photometric data



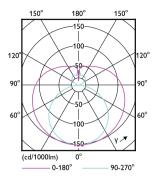




Spectral Power Distribution Colour - 14.5T8/CNG/48-835/MF17/G 25/1

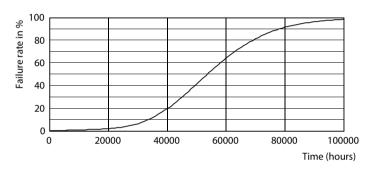
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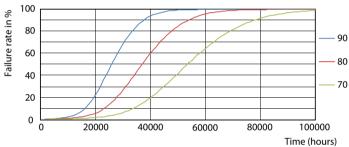
#### Photometric data



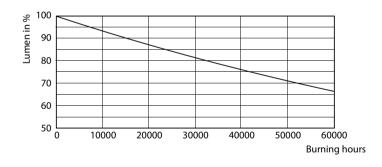
Light Distribution Diagram - 14.5T8/CNG/48-835/MF17/G 25/1

#### Lifetime

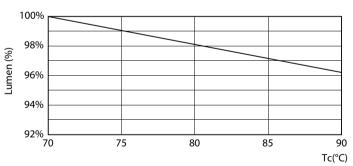




## Life Expectancy Diagram



LEDtube 50K 7090 FailureRate-LED

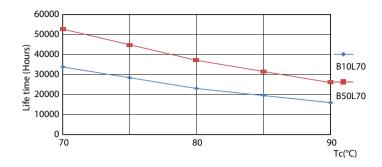


Lumen Maintenance Diagram - 14.5T8/CNG/48-835/MF17/G 25/1

Lumen Maintenance Diagram - 14.5T8/CNG/48-835/MF17/G 25/1

## Contractor-grade MainsFit (UL Type-B) T8

#### Lifetime



LifetimeVsTc

