



# T8

## 12T8/MAS/48-840/MF18/G 10/1

Our TLEDs are available in InstantFit (Type A / Type C) or MainsFit (Ballast bypass / Type B) versions. The InstantFit lamps work on a broad variety of ballasts and LED drivers. Only InstantFit has over 15,000 lamp & ballast combinations delivering even light output, energy savings and a long lifetime. Our MainsFit products feature a double-ended design, simplifying installation while a proprietary safety circuit minimizes a shock risk. Lamp sizes range from 2-foot to 8-foot and U-bend with a variety of lumen outputs.

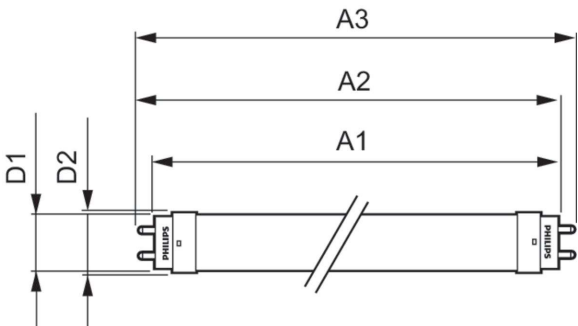
### Product data

|                                       |                                 |                               |                             |
|---------------------------------------|---------------------------------|-------------------------------|-----------------------------|
| <b>General Information</b>            |                                 | <b>Input Frequency</b>        |                             |
| Cap-Base                              | G13 [Medium Bi-Pin Fluorescent] | Power Consumption             | 12 W                        |
| Nominal lifetime                      | 50,000 hour(s)                  | Lamp Current (Max)            | 120 mA                      |
| Switching Cycle                       | 50,000                          | Lamp Current (Min)            | 40 mA                       |
| Lighting Technology                   | LED                             | Starting Time (Nom)           | 0.5 s                       |
| EU RoHS compliant                     | Yes                             | Warm-up time to 60% light     | 0.5 s                       |
| <b>Light Technical</b>                |                                 | Power Factor (Fraction)       | 0.9                         |
| Color Code                            | 840 [CCT of 4000K]              | Voltage (Nom)                 | 120-277 V                   |
| Beam Angle (Nom)                      | 240 degree(s)                   | UL Type                       | Type B - bypass the ballast |
| Luminous Flux                         | 1,800 lm                        | <b>Temperature</b>            |                             |
| Color Designation                     | Cool White (CW)                 | Ambient temperature range     | -20 °C to 45 °C             |
| Correlated Color Temperature (Nom)    | 4000 K                          | T-Case Maximum (Nom)          | 70 °C                       |
| Luminous Efficacy (rated) (Nom)       | 150.00 lm/W                     | <b>Controls and Dimming</b>   |                             |
| Color Consistency                     | <6                              | Dimmable                      | No                          |
| Color rendering index (CRI)           | 80                              | <b>Mechanical and Housing</b> |                             |
| LLMF At End Of Nominal Lifetime (Nom) | 70 %                            | Bulb Finish                   | Frosted                     |
| <b>Operating and Electrical</b>       |                                 | Bulb Material                 | Glass                       |
| Line Frequency                        | 50 to 60 Hz                     |                               |                             |

|                               |                                               |
|-------------------------------|-----------------------------------------------|
| Product Length                | 1,200 mm                                      |
| Bulb Shape                    | Tube, double-ended                            |
| Approval and Application      |                                               |
| Energy Saving Product         | Yes                                           |
| Approval Marks                | RoHS compliance UL certificate DLC compliance |
| Energy Consumption kWh/1000 h | - kWh                                         |
| Product Data                  |                                               |
| Order product name            | 12T8/MAS/48-840/MF18/G 10/1                   |

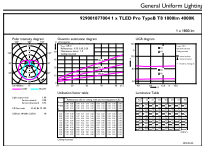
|                                 |                             |
|---------------------------------|-----------------------------|
| Full product name               | 12T8/MAS/48-840/MF18/G 10/1 |
| Order code                      | 929001877034                |
| Material Nr. (12NC)             | 929001877034                |
| Numerator - Quantity Per Pack   | 1                           |
| EAN/UPC - Product/Case          | 046677532697                |
| Numerator - Packs per outer box | 10                          |
| EAN/UPC - Case                  | 50046677532692              |

Dimensional drawing



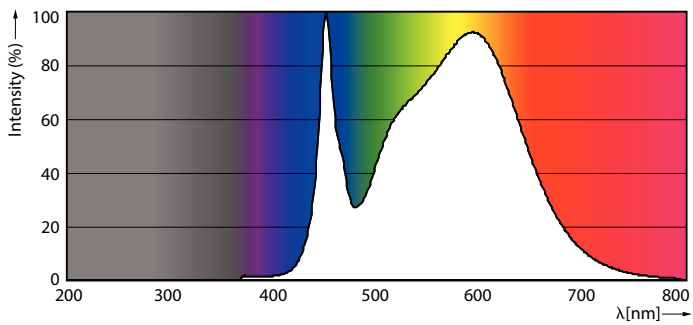
| Product                     | D1      | D2    | A1       | A2       | A3       |
|-----------------------------|---------|-------|----------|----------|----------|
| 12T8/MAS/48-840/MF18/G 10/1 | 25.7 mm | 28 mm | 1,198 mm | 1,205 mm | 1,212 mm |

Photometric data



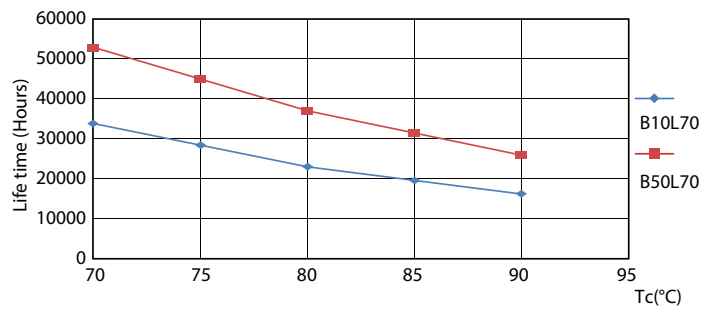
Light Distribution Diagram - 12T8/MAS/48-840/MF18/G 10/1

Photometric data

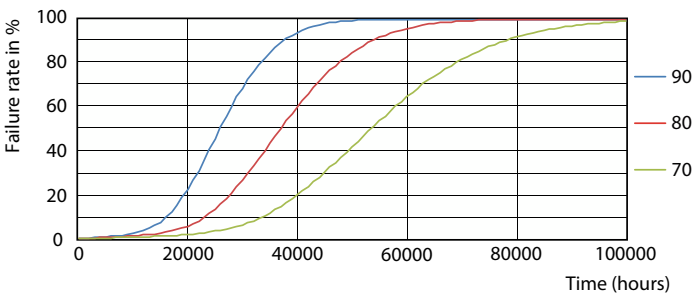


Spectral Power Distribution Colour - 12T8/MAS/48-840/MF18/G 10/1

Lifetime

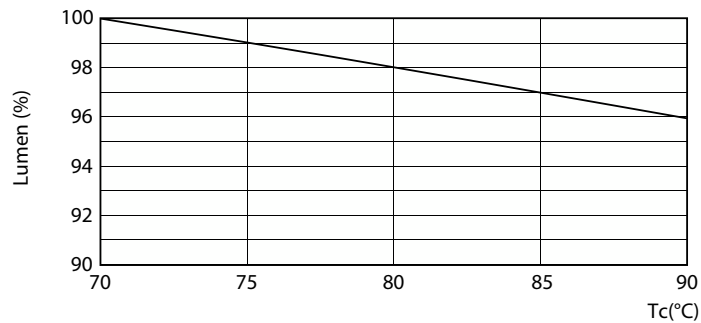


Life Expectancy Diagram - 12T8/MAS/48-840/MF18/G 10/1



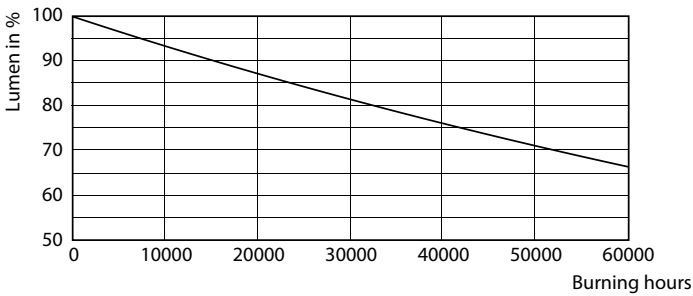
Life Expectancy Diagram - 12T8/MAS/48-840/MF18/G 10/1

Life Expectancy Diagram - 12T8/MAS/48-840/MF18/G 10/1



Lumen Maintenance Diagram - 12T8/MAS/48-840/MF18/G 10/1

Lifetime



Lumen Maintenance Diagram - 12T8/MAS/48-840/MF18/G 10/1

