

# T8

## 12T8/COR/48-850/MF18/G 10/1

Philips MainsFit (UL Type B) CorePro T8 LED tubes deliver high-quality, flicker free performance at an affordable price. The UL Type B LED tubes are designed with easy installation and long-term maintenance simplicity in mind. Upgrade your lighting to Philips and realize 50,000 hour LED lifetime backed by a 5-year, full replacement limited warranty. The DLC 5.1 listed products are compatible with Philips new PTB15D emergency driver meeting UL 924 requirements.

### Product data

| General information                   |                                  |
|---------------------------------------|----------------------------------|
| Base                                  | G13 [ Medium Bi-Pin Fluorescent] |
| EU RoHS compliant                     | Yes                              |
| Nominal Lifetime (Nom)                | 50000 h                          |
| Switching Cycle                       | 50000                            |
| Technical Type                        | 12-32W                           |
| Tier                                  | CorePro                          |
| Light technical                       |                                  |
| Color Code                            | 850 [ CCT of 5000K]              |
| Beam Angle (Nom)                      | 240 °                            |
| Initial lumen (Nom)                   | 1800 lm                          |
| Color Designation                     | Daylight                         |
| Correlated Color Temperature (Nom)    | 5000 K                           |
| Luminous Efficacy (rated) (Nom)       | 150.00 lm/W                      |
| Color Consistency                     | <5                               |
| Color Rendering Index (Nom)           | 80                               |
| LLMF At End Of Nominal Lifetime (Nom) | 70 %                             |
| Operating and electrical              |                                  |
| Input Frequency                       | 50 to 60 Hz                      |

| Power (Rated) (Nom)             | 12 W                        |
|---------------------------------|-----------------------------|
| Lamp Current (Max)              | 102 mA                      |
| Lamp Current (Min)              | 48 mA                       |
| Wattage Equivalent              | 32 W                        |
| Starting Time (Nom)             | 0.5 s                       |
| Warm Up Time to 60% Light (Nom) | 0.5 s                       |
| UL Type                         | Type B - bypass the ballast |
| Power Factor (Nom)              | 0.9                         |
| Voltage (Nom)                   | 120-277 V                   |
| Temperature                     |                             |
| T-Ambient (Max)                 | 113 °F                      |
| T-Ambient (Min)                 | -4 °F                       |
| T-Storage (Max)                 | 149 °F                      |
| T-Storage (Min)                 | -40 °F                      |
| T-Case Maximum (Nom)            | 158 °F                      |
| Controls and dimming            |                             |
| Dimmable                        | Limited                     |

# T8

## Mechanical and housing

|                |                    |
|----------------|--------------------|
| Bulb Finish    | Frosted            |
| Bulb Material  | Glass              |
| Product Length | 48 in              |
| Bulb Shape     | Tube, double-ended |

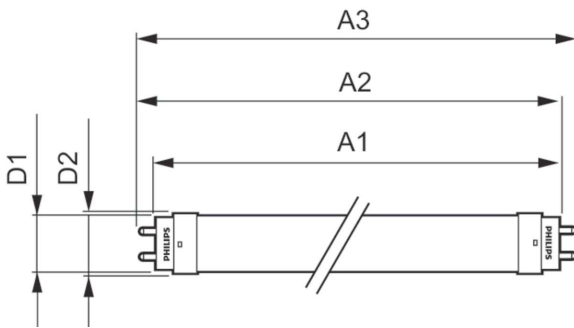
## Approval and application

|                               |   |
|-------------------------------|---|
| Energy Saving Product         | Yes   |
| Approval Marks                | RoHS compliance UL certificate DLC compliance |
| Energy Consumption kWh/1000 h | - kWh   |

## Product data

|                                 |                             |
|---------------------------------|-----------------------------|
| Order product name              | 12T8/COR/48-850/MF18/G 10/1 |
| EAN/UPC - Product               | 046677563516                |
| Order code                      | 563510                      |
| Numerator - Quantity Per Pack   | 1                           |
| Numerator - Packs per outer box | 10                          |
| Material Nr. (12NC)             | 929002484304                |
| Net Weight (Piece)              | 0.474 lb                    |
| Model Number                    | 9290024843                  |

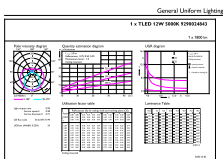
## Dimensional drawing



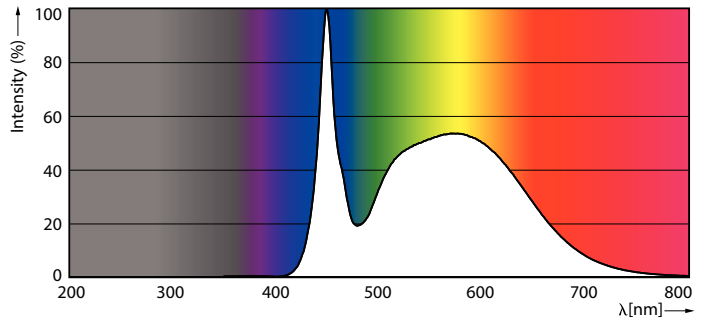
12T8/COR/48-850/MF18/G 10/1

| Product                     | D1        | D2       | A1         | A2        | A3        |
|-----------------------------|-----------|----------|------------|-----------|-----------|
| 12T8/COR/48-850/MF18/G 10/1 | 1-1/16 in | 1-1/8 in | 47-3/16 in | 47-1/2 in | 47-3/4 in |

## Photometric data

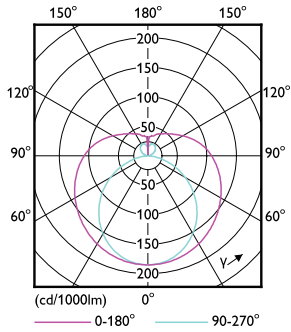


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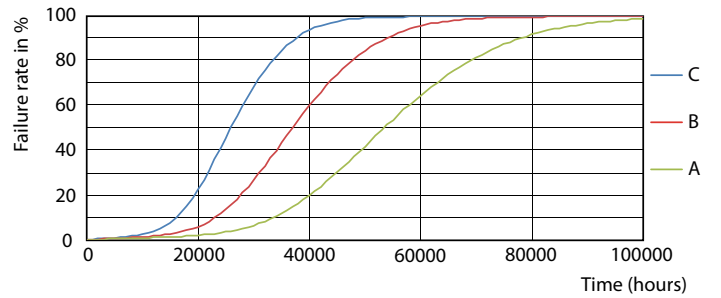
LEDtube COR 9,9W G13 1600lm 850

Photometric data

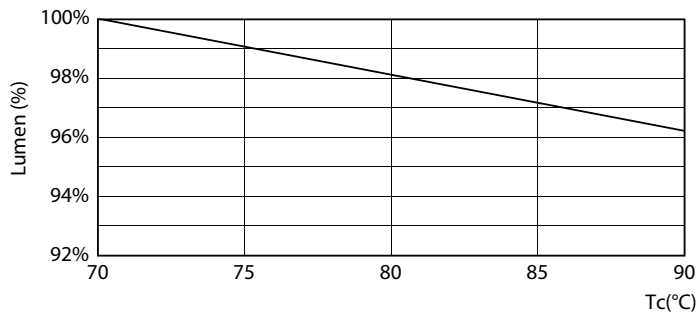


LEDtube COR 9,9W G13 1550lm

Lifetime



Life Expectancy Diagram



LEDtube COR 9,9W 50K LumenVsTc

LEDtube 50K FailureRate-LED



Lumen Maintenance Diagram

Lifetime



LEDtube 50K LifetimeVsTc-LED

