



# CorePro MainsFit (UL Type-B) T8

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

The CorePro MainsFit (UL Type B) lamps are designed to be the perfect retrofit solution to move from traditional fluorescent lamps to energy saving LEDs. This ballast bypass lamp has everything needed built into the lamp with proven energy savings, long life (up to 50k hours), surge suppression and industry leading safety features. All lamps in the CorePro MainsFit family are double-ended to help simplify the installation. In addition, all lamps meet the Philips standards for light quality so that end users will be in a comfortable environment regardless of the CorePro MainsFit lamp type.

## Product data

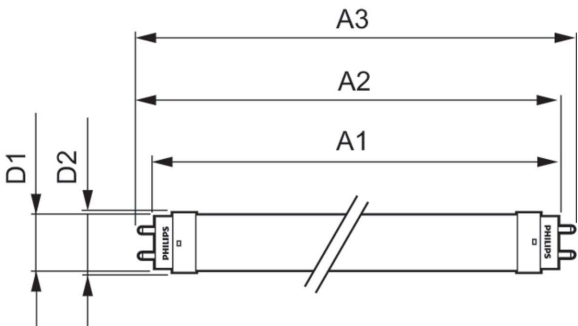
| General Information                   |                                 | Operating and Electrical  |             |
|---------------------------------------|---------------------------------|---------------------------|-------------|
| Cap-Base                              | G13 [Medium Bi-Pin Fluorescent] | Line Frequency            | 50 to 60 Hz |
| Nominal lifetime                      | 50,000 hour(s)                  | Input Frequency           | 50 to 60 Hz |
| Switching Cycle                       | 50,000                          | Power Consumption         | 12 W        |
| Lighting Technology                   | LED                             | Lamp Current (Max)        | 102 mA      |
| Light Technical                       |                                 | Lamp Current (Min)        | 48 mA       |
| Color Code                            | 850 [CCT of 5000K]              | Wattage Equivalent        | 32 W        |
| Beam Angle (Nom)                      | 240 degree(s)                   | Starting Time (Nom)       | 0.5 s       |
| Luminous Flux                         | 1,800 lm                        | Warm-up time to 60% light | 0.5 s       |
| Color Designation                     | Daylight                        | Power Factor (Fraction)   | 0.9         |
| Correlated Color Temperature (Nom)    | 5000 K                          | Voltage (Nom)             | 120-277 V   |
| Luminous Efficacy (rated) (Nom)       | 150.00 lm/W                     | UL Type                   | UL Type B   |
| Color Consistency                     | <5                              | Temperature               |             |
| Color rendering index (CRI)           | 80                              | T-Case Maximum (Nom)      | 70 °C       |
| LLMF At End Of Nominal Lifetime (Nom) | 70 %                            |                           |             |

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|                               |                                               |
|-------------------------------|-----------------------------------------------|
| Controls and Dimming          |                                               |
| Dimmable                      | Limited                                       |
| Mechanical and Housing        |                                               |
| Bulb Finish                   | Frosted                                       |
| Bulb Material                 | Glass                                         |
| Product Length                | 1,200 mm                                      |
| Bulb Shape                    | T8                                            |
| Net Weight (Piece)            | 0.215 kg                                      |
| Approval and Application      |                                               |
| Energy Saving Product         | Yes                                           |
| Approval Marks                | RoHS compliance UL certificate DLC compliance |
| Energy Consumption kWh/1000 h | - kWh                                         |
| EU RoHS compliant             | Yes                                           |

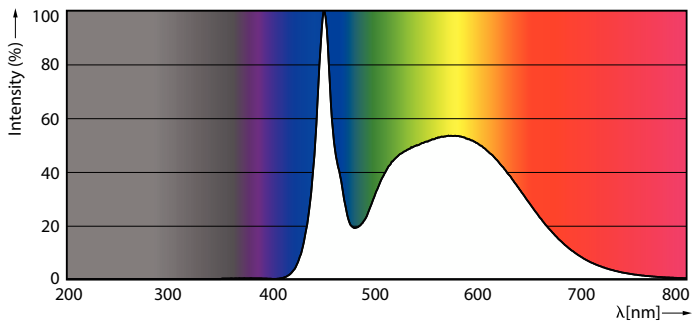
|                                     |                             |
|-------------------------------------|-----------------------------|
| Ambient temperature range           | -20 °C to 45 °C             |
| Application Conditions              |                             |
| can it be used in closed luminaires | Yes                         |
| Product Data                        |                             |
| Order product name                  | 12T8/COR/48-850/MF18/G 10/1 |
| Full product name                   | 12T8/COR/48-850/MF18/G 10/1 |
| Order code                          | 563510                      |
| Material Nr. (12NC)                 | 929002484304                |
| Numerator - Quantity Per Pack       | 1                           |
| EAN/UPC - Product/Case              | 046677563516                |
| Numerator - Packs per outer box     | 10                          |
| EAN/UPC - Case                      | 50046677563511              |

Dimensional drawing

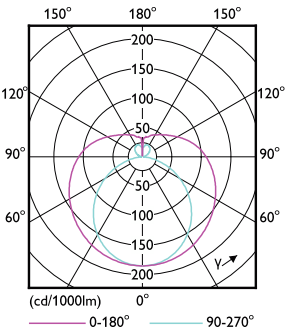


| Product                     | D1      | D2    | A1         | A2         | A3         |
|-----------------------------|---------|-------|------------|------------|------------|
| 12T8/COR/48-850/MF18/G 10/1 | 25.7 mm | 28 mm | 1,198.2 mm | 1,205.3 mm | 1,212.4 mm |

Photometric data



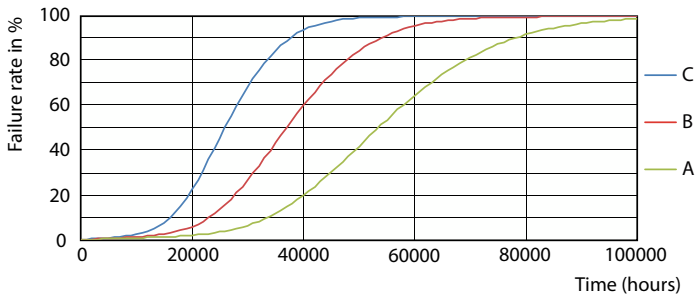
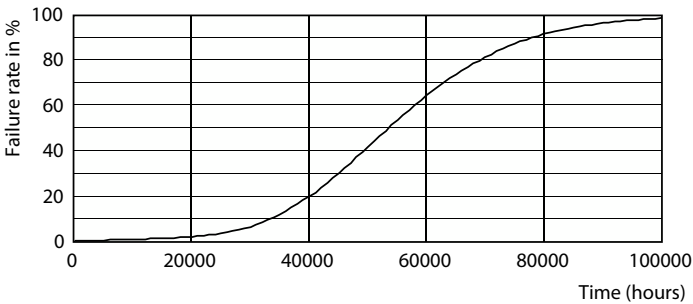
Spectral Power Distribution Colour - 12T8/COR/48-850/MF18/G 10/1



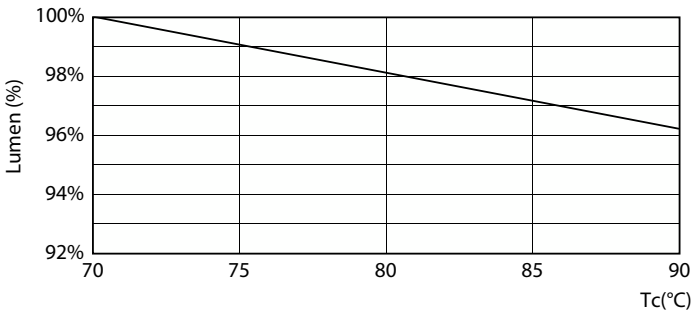
Light Distribution Diagram - 12T8/COR/48-850/MF18/G 10/1

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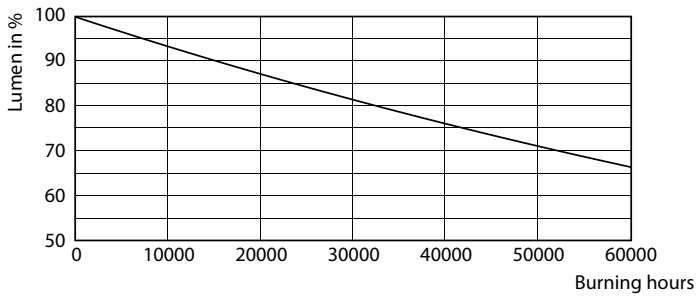
Lifetime



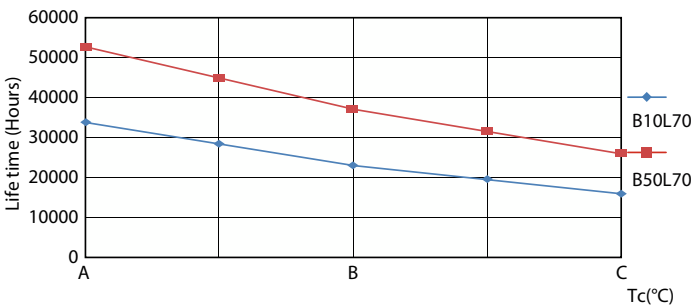
Life Expectancy Diagram



FailureRate



Lumen Maintenance Diagram - 12T8/COR/48-850/MF18/G 10/1



Lumen Maintenance Diagram - 12T8/COR/48-850/MF18/G 10/1



LifetimeVsTc



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