

# MasterConnect T8

14T8/48-835/IF20/MC IA 10/1

MasterConnect, LEDtube, T8, 1200 mm, 14 W, 3500 K, 2000 lm, 70000 hour(s)

Introducing MasterConnect LED lamps - smart retrofit LED lamps that give you an easy and seamless way to upgrade to connected lighting. Simply set up with an intuitive app, MasterConnect LED lamps can be programmed to maximize energy savings, while providing wireless and automated light for your comfort and convenience. What's more, it is fully scalable and upgradable. If you want to enjoy further benefits such as remote control or management dashboard, you can simply keep the currently installed lamps and add a gateway to experience all the advantages of a cloud-based system. There's no better way to take lighting solutions to the next level.

## Product data

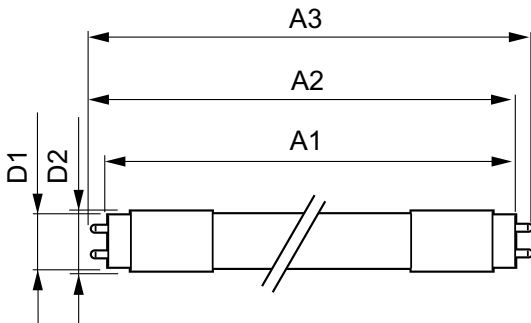
| General Information                |                    | Color rendering index (CRI)           |                | 82   |
|------------------------------------|--------------------|---------------------------------------|----------------|------|
| Cap-Base                           | G13                | LLMF At End Of Nominal Lifetime (Nom) |                | 70 % |
| Nominal lifetime                   | 70,000 hour(s)     | Operating and Electrical              |                |      |
| Switching Cycle                    | 50,000             | Line Frequency                        | 28K to 100K Hz |      |
| Lighting Technology                | LEDtube            | Input Frequency                       | 28K to 100K Hz |      |
| Light Technical                    |                    | Power Consumption                     | 14 W           |      |
| Color Code                         | 835 [CCT of 3500K] | Lamp Current (Max)                    | 380 mA         |      |
| Beam Angle (Nom)                   | 160 degree(s)      | Lamp Current (Min)                    | 120 mA         |      |
| Luminous Flux                      | 2,000 lm           | Wattage Equivalent                    | 32 W           |      |
| Color Designation                  | White (WH)         | Starting Time (Nom)                   | 0.5 s          |      |
| Correlated Color Temperature (Nom) | 3500 K             | Warm-up time to 60% light             | 0.5 s          |      |
| Luminous Efficacy (rated) (Nom)    | 142.00 lm/W        | Power Factor (Fraction)               | 0.9            |      |
| Color Consistency                  | <6                 | Voltage (Nom)                         | 100-380 V      |      |

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|                                 |   |
|---------------------------------|---|
| UL Type                         | UL Type A                                     |
| <b>Temperature</b>              |   |
| T-Case Maximum (Nom)            | 40 °C   |
| <b>Controls and Dimming</b>     |   |
| Dimmable                        | Wireless Dim                                  |
| Connectivity                    | Interact Ready                                |
| <b>Mechanical and Housing</b>   |   |
| Bulb Finish                     | Frosted                                       |
| Bulb Material                   | Plastic                                       |
| Product Length                  | 1,200 mm                                      |
| Bulb Shape                      | T8  |
| Net Weight (Piece)              | 0.220 kg                                      |
| <b>Approval and Application</b> |   |
| Energy Saving Product           | Yes   |
| Approval Marks                  | RoHS compliance UL certificate DLC compliance |

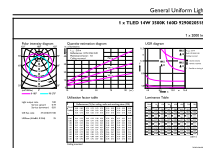
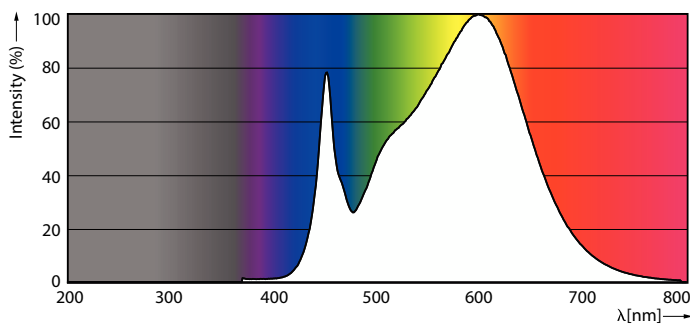
|                                     |                             |
|-------------------------------------|-----------------------------|
| EU RoHS compliant                   | Yes                         |
| Ambient temperature range           | -20 °C to 45 °C             |
| <b>Application Conditions</b>       |                             |
| can it be used in closed luminaires | Yes                         |
| <b>Product Data</b>                 |                             |
| Order product name                  | 14T8/48-835/IF20/MC IA 10/1 |
| Full product name                   | 14T8/48-835/IF20/MC IA 10/1 |
| Order code                          | 929002051804                |
| Material Nr. (12NC)                 | 929002051804                |
| Numerator - Quantity Per Pack       | 1                           |
| EAN/UPC - Product/Case              | 046677547295                |
| Numerator - Packs per outer box     | 10                          |
| EAN/UPC - Case                      | 50046677547290              |

## Dimensional drawing



| Product                     | D1      | D2      | A1       | A2       | A3       |
|-----------------------------|---------|---------|----------|----------|----------|
| 14T8/48-835/IF20/MC IA 10/1 | 25.7 mm | 26.3 mm | 1,198 mm | 1,205 mm | 1,212 mm |

## Photometric data



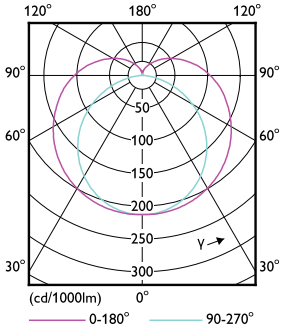
General Uniform Lighting - 14T8/48-835/IF20/MC IA 10/1

Spectral Power Distribution Colour - 14T8/48-835/IF20/MC IA 10/1

General uniform lighting - 14T8/48-835/IF20/MC IA 10/1

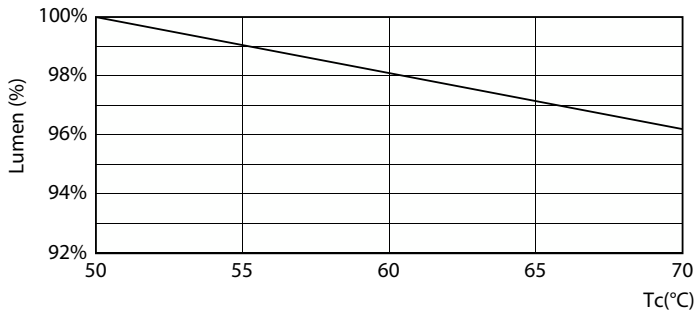
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## Photometric data

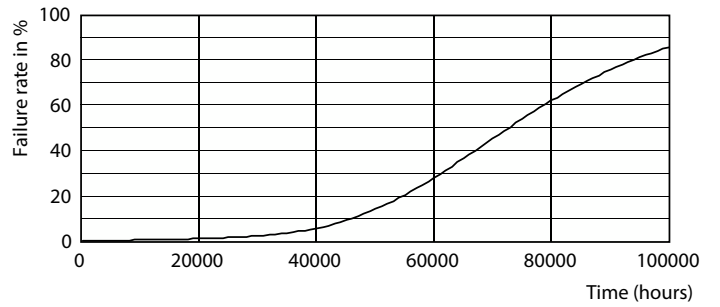


Light Distribution Diagram - 14T8/48-835/IF20/MC IA 10/1

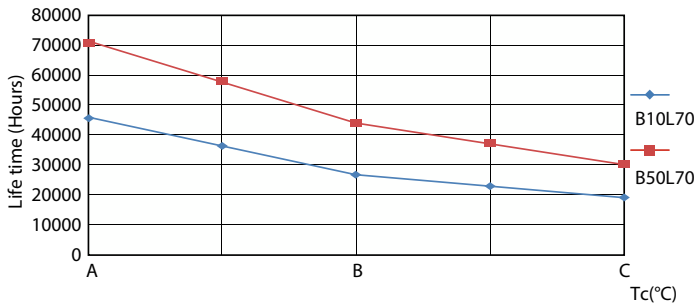
## Lifetime



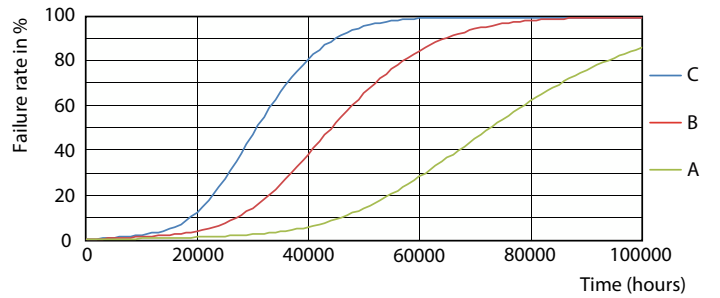
Lumen Maintenance Diagram - 14T8/48-835/IF20/MC IA 10/1



Life Expectancy Diagram



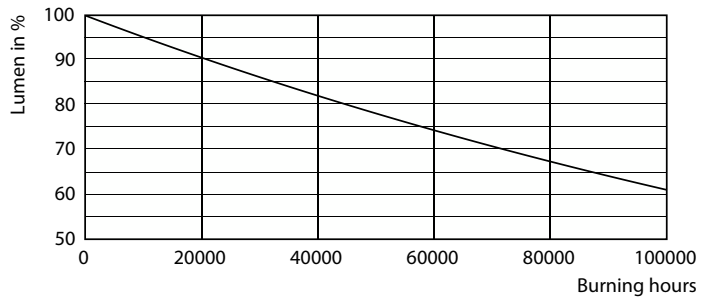
LEDtube\_70K\_LifetimeVsTc-LED



LEDtube\_70K\_FailureRate-LED

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## Lifetime



Lumen Maintenance Diagram - 14T8/48-835/IF20/MC IA 10/1

