

# MasterClass InstantFit (UL Type-A) T8

13T8/MAS/48-840/IF21/P/DIM 10/1

MasterClass, LED, T8, 13 W, 4000 K, 2100 lm, 70000 hour(s)

The MasterClass InstantFit T8 lamps provide hassle-free installation with simple lamp-for-lamp replacements. They deliver what we promise, with at least 40% energy savings, flicker-free performance, and the life you would expect. Other lamps claim compatibility but only MasterClass InstantFit (UL Type A) has been proven to work with over 200 ballasts and drivers, delivering even light output, with proven energy savings and a long average lifetime. End users will be delighted being under these comfortable and high quality lamps with no visible flicker and optimized optics. Energy managers will enjoy these lamps too as they can count the savings delivered by our lamps. To enjoy more energy savings, the MasterClass InstantFit lamps can be paired with the Advance TLED drivers to create a Type C system. With available 70,000 hour life, 7-year limited warranty and a shatter-prevention polycarbonate lens, Philips MasterClass InstantFit TLED lamps deliver benefits for all.

## Product data

| General Information |                                 |
|---------------------|---------------------------------|
| Cap-Base            | G13 [Medium Bi-Pin Fluorescent] |
| Nominal lifetime    | 70,000 hour(s)                  |
| Switching Cycle     | 50,000                          |
| Lighting Technology | LED                             |

| Light Technical                    |                    |
|------------------------------------|--------------------|
| Color Code                         | 840 [CCT of 4000K] |
| Beam Angle (Nom)                   | 180 degree(s)      |
| Luminous Flux                      | 2,100 lm           |
| Color Designation                  | Cool White (CW)    |
| Correlated Color Temperature (Nom) | 4000 K             |
| Luminous Efficacy (rated) (Nom)    | 161 lm/W           |

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|                                       |      |
|---------------------------------------|------|
| Color Consistency                     | <6   |
| Color rendering index (CRI)           | 80   |
| LLMF At End Of Nominal Lifetime (Nom) | 70 % |

Operating and Electrical

|                           |                |
|---------------------------|----------------|
| Line Frequency            | 20K to 120K Hz |
| Input Frequency           | 20K to 120K Hz |
| Power Consumption         | 13 W           |
| Lamp Current (Max)        | 300 mA         |
| Lamp Current (Min)        | 50 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)             | 120-277.347 V  |
| UL Type                   | UL Type A      |

Temperature

|                      |       |
|----------------------|-------|
| T-Case Maximum (Nom) | 40 °C |
|----------------------|-------|

Controls and Dimming

|          |                            |
|----------|----------------------------|
| Dimmable | Only with specific dimmers |
|----------|----------------------------|

Mechanical and Housing

|               |         |
|---------------|---------|
| Bulb Finish   | Frosted |
| Bulb Material | Plastic |

|                    |          |
|--------------------|----------|
| Product Length     | 1,200 mm |
| Bulb Shape         | T8       |
| Net Weight (Piece) | 0.165 kg |

Approval and Application

|                           |                                               |
|---------------------------|-----------------------------------------------|
| Energy Saving Product     | Yes                                           |
| Approval Marks            | RoHS compliance UL certificate DLC compliance |
| Energy Certifications     | DLC Standard                                  |
| EU RoHS compliant         | Yes                                           |
| Ambient temperature range | -20 °C to 45 °C                               |

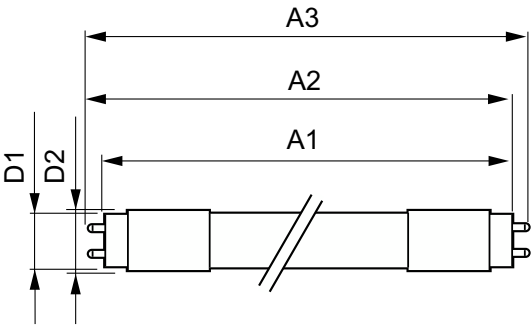
Application Conditions

|                                     |     |
|-------------------------------------|-----|
| can it be used in closed luminaires | Yes |
|-------------------------------------|-----|

Product Data

|                                 |                                 |
|---------------------------------|---------------------------------|
| Order product name              | 13T8/MAS/48-840/IF21/P/DIM 10/1 |
| Full product name               | 13T8/MAS/48-840/IF21/P/DIM 10/1 |
| Order code                      | 473942                          |
| Material Nr. (12NC)             | 929001397834                    |
| Numerator - Quantity Per Pack   | 1                               |
| EAN/UPC - Product/Case          | 046677473945                    |
| Numerator - Packs per outer box | 10                              |
| EAN/UPC - Case                  | 50046677473940                  |

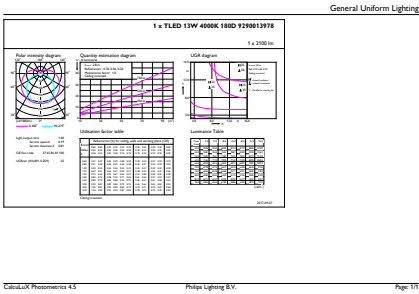
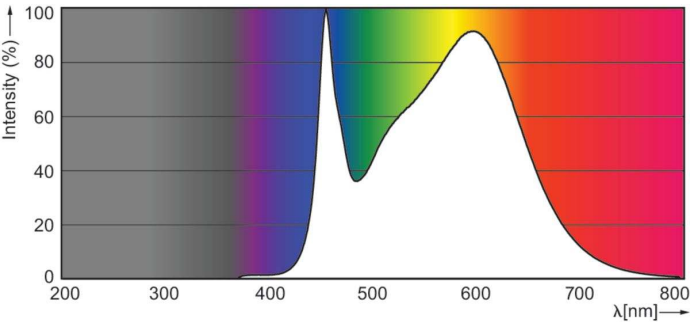
Dimensional drawing



| Product                         | D1      | D2      | A1         | A2         | A3         |
|---------------------------------|---------|---------|------------|------------|------------|
| 13T8/MAS/48-840/IF21/P/DIM 10/1 | 25.7 mm | 26.3 mm | 1,198.1 mm | 1,205.2 mm | 1,212.3 mm |

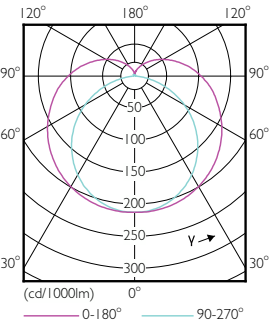
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Photometric data



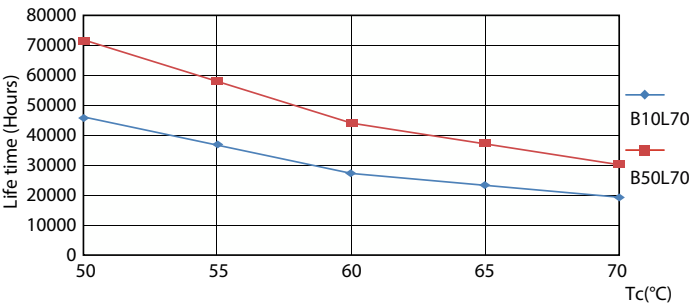
Spectral Power Distribution Colour - 13T8/MAS/48-840/IF21/P/DIM 10/1

General uniform lighting - 13T8/MAS/48-840/IF21/P/DIM 10/1

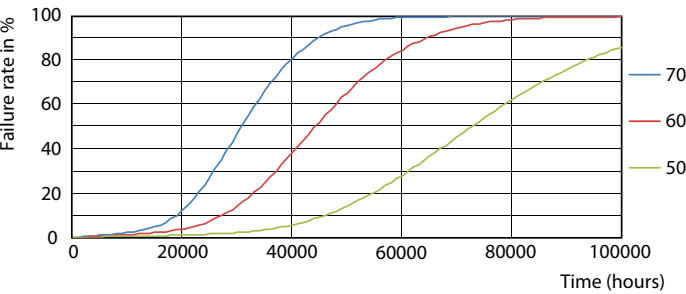


Light Distribution Diagram - 13T8/MAS/48-840/IF21/P/DIM 10/1

Lifetime



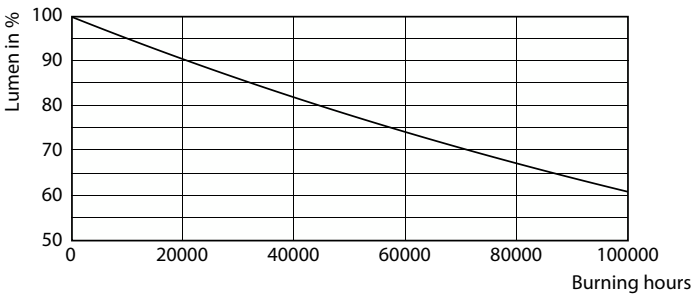
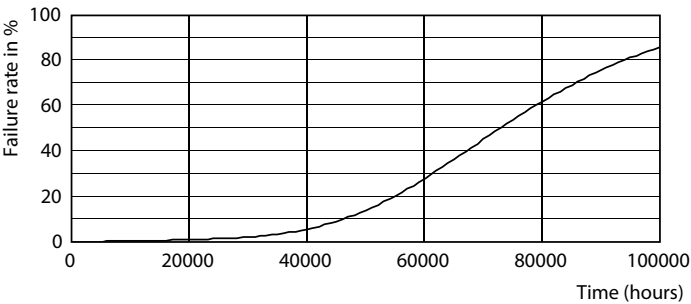
LEDtube 13W G13 2100lm



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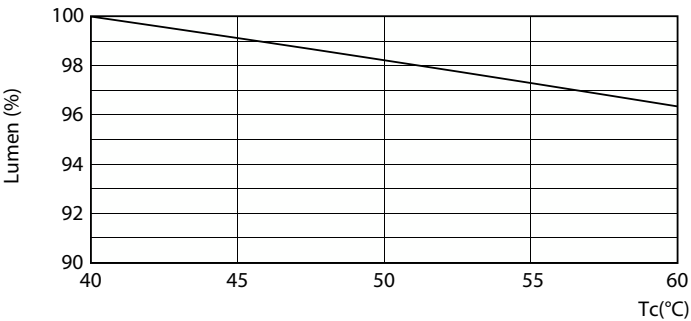
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Lifetime



LEDtube 13W G13 2100lm

Lumen Maintenance Diagram - 13T8/MAS/48-840/IF21/P/DIM 10/1



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