



# Small size fluorescent lamp with improved light quality

## MASTER TL Mini Super 80

This TL Miniature lamp (tube diameter 16 mm) is a lamp with small dimensions, which enables system miniaturization and offers the possibility of operation on low-voltage DC supply. It is ideal for applications where better color rendering and efficacy (than standard colors) are required and where space is limited, e.g. halls, staircase lighting in apartment buildings, built into furniture, mirror and cupboard lighting, signage and emergency lighting.

### Benefits

- Good color rendering
- High efficacy, both initially and during lamp lifetime, with high lumen maintenance compared with standard lamps
- Small lamp dimensions enables system miniaturization

### Features

- Small diameter tubes
- Highly efficient 3-band fluorescent coating
- Possibility for operation on low-voltage DC supply

### Application

- Ideal for applications where space is limited and requiring better color rendering and efficacy than standard colors, i.e.: hall and staircase lighting in apartment buildings, built into furniture, mirror and cupboard lighting, emergency lighting

### Warnings and Safety

- A lamp breaking is extremely unlikely to have any impact on your health. If a lamp breaks, ventilate the room for 30 minutes and remove the parts, preferably with gloves. Put them in a sealed plastic bag and take it to your local waste facilities for recycling. Do not use a vacuum cleaner.

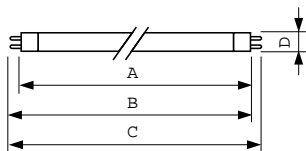
# MASTER TL Mini Super 80

## Versions



G5, T5

## Dimensional drawing



| Product   | D (max) | A (max)  | B (max)  | B (min)  | C (max)  |
|---|---------|----------|----------|----------|----------|
| MASTER TL Mini Super 80<br>6W/840 FAM/10X25BOX  | 16 mm   | 212.1 mm | 219.2 mm | 216.8 mm | 226.3 mm |
| MASTER TL Mini Super 80<br>8W/827 FAM/10X25BOX  | 16 mm   | 288.3 mm | 295.4 mm | 293.0 mm | 302.5 mm |
| MASTER TL Mini Super 80<br>8W/830 FAM/10X25BOX  | 16 mm   | 288.3 mm | 295.4 mm | 293.0 mm | 302.5 mm |
| MASTER TL Mini Super 80<br>8W/840 FAM/10X25BOX  | 16 mm   | 288.3 mm | 295.4 mm | 293.0 mm | 302.5 mm |
| MASTER TL Mini Super 80<br>13W/827 FAM/10X25BOX | 16 mm   | 516.9 mm | 524.0 mm | 521.6 mm | 531.1 mm |
| MASTER TL Mini Super 80<br>13W/830 FAM/10X25BOX | 16 mm   | 516.9 mm | 524.0 mm | 521.6 mm | 531.1 mm |
| MASTER TL Mini Super 80<br>13W/840 FAM/10X25BOX | 16 mm   | 516.9 mm | 524.0 mm | 521.6 mm | 531.1 mm |

### Approval and Application

|                               |        |
|-------------------------------|--------|
| Energy Efficiency Label (EEL) | A      |
| Mercury (Hg) Content (Nom)    | 3.0 mg |

### Controls and Dimming

|          |     |
|----------|-----|
| Dimmable | Yes |
|----------|-----|

### General Information

|          |    |
|----------|----|
| Cap-Base | G5 |
|----------|----|

### Light Technical

|                                 |      |
|---------------------------------|------|
| Lumen Maintenance 10000 h (Nom) | 71 % |
| Lumen Maintenance 5000 h (Nom)  | 77 % |

### Mechanical and Housing

|            |    |
|------------|----|
| Bulb Shape | T5 |
|------------|----|

## Approval and Application

# MASTER TL Mini Super 80

| Order Code   | Full Product Name                           | Energy Consumption kWh/1000 h |
|--------------|---|-------------------------------|
| 928000584050 | MASTER TL Mini Super 80 6W/840 FAM/10X25BOX | 7 kWh                         |
| 928001008250 | MASTER TL Mini Super 80 8W/827 FAM/10X25BOX | 8 kWh                         |
| 928001008350 | MASTER TL Mini Super 80 8W/830 FAM/10X25BOX | 8 kWh                         |
| 928001008450 | MASTER TL Mini Super 80 8W/840 FAM/10X25BOX | 8 kWh                         |

| Order Code   | Full Product Name                            | Energy Consumption kWh/1000 h |
|--------------|--|-------------------------------|
| 928001508250 | MASTER TL Mini Super 80 13W/827 FAM/10X25BOX | 14 kWh                        |
| 928001508350 | MASTER TL Mini Super 80 13W/830 FAM/10X25BOX | 14 kWh                        |
| 928001508450 | MASTER TL Mini Super 80 13W/840 FAM/10X25BOX | 14 kWh                        |

## Operating and Electrical

| Order Code   | Full Product Name                           | Lamp          |               | Power         |
|--------------|---|---------------|---------------|---------------|
|              |   | Current (Nom) | Voltage (Nom) | (Rated) (Nom) |
| 928000584050 | MASTER TL Mini Super 80 6W/840 FAM/10X25BOX | 0.160 A       | 42 V          | 6.0 W         |
| 928001008250 | MASTER TL Mini Super 80 8W/827 FAM/10X25BOX | 0.145 A       | 56 V          | 7.1 W         |
| 928001008350 | MASTER TL Mini Super 80 8W/830 FAM/10X25BOX | 0.145 A       | 56 V          | 7.1 W         |
| 928001008450 | MASTER TL Mini Super 80 8W/840 FAM/10X25BOX | 0.145 A       | 56 V          | 7.1 W         |

| Order Code   | Full Product Name                            | Lamp          |               | Power         |
|--------------|--|---------------|---------------|---------------|
|              |  | Current (Nom) | Voltage (Nom) | (Rated) (Nom) |
| 928001508250 | MASTER TL Mini Super 80 13W/827 FAM/10X25BOX | 0.170 A       | 90 V          | 13.0 W        |
| 928001508350 | MASTER TL Mini Super 80 13W/830 FAM/10X25BOX | 0.170 A       | 90 V          | 13.0 W        |
| 928001508450 | MASTER TL Mini Super 80 13W/840 FAM/10X25BOX | 0.170 A       | 90 V          | 13.0 W        |

## General Information

| Order Code   | Full Product Name                           | Life To 50%            |   |                            |
|--------------|---|------------------------|---|----------------------------|
|              |   | Failures Preheat (Nom) | Life To 10% Failures (Nom)                  | Life To 50% Failures (Nom) |
|              |   | 928000584050           | MASTER TL Mini Super 80 6W/840 FAM/10X25BOX | 10000 h                    |
| 928001008250 | MASTER TL Mini Super 80 8W/827 FAM/10X25BOX | 10000 h                | 5000 h                                      | 10000 h                    |
| 928001008350 | MASTER TL Mini Super 80 8W/830 FAM/10X25BOX | 10000 h                | 5000 h                                      | 10000 h                    |
| 928001008450 | MASTER TL Mini Super 80 8W/840 FAM/10X25BOX | 10000 h                | 5000 h                                      | 10000 h                    |

| Order Code   | Full Product Name                            | Life To 50%            |  |                            |
|--------------|--|------------------------|--|----------------------------|
|              |  | Failures Preheat (Nom) | Life To 10% Failures (Nom)                   | Life To 50% Failures (Nom) |
|              |  | 928001508250           | MASTER TL Mini Super 80 13W/827 FAM/10X25BOX | 8000 h                     |
| 928001508350 | MASTER TL Mini Super 80 13W/830 FAM/10X25BOX | 8000 h                 | 4000 h                                       | 8000 h                     |
| 928001508450 | MASTER TL Mini Super 80 13W/840 FAM/10X25BOX | 8000 h                 | 4000 h                                       | 8000 h                     |

## Light Technical

| Order Code   | Full Product Name                           | Color Code | Color Designation  | Correlated Color  | Color                 | Lumen                    |                                 |                     |
|--------------|---|------------|--------------------|-------------------|-----------------------|--------------------------|---------------------------------|---------------------|
|              |   |            |                    | Temperature (Nom) | Rendering Index (Nom) | Maintenance 2000 h (Nom) | Luminous Efficacy (rated) (Nom) | Luminous Flux (Nom) |
| 928000584050 | MASTER TL Mini Super 80 6W/840 FAM/10X25BOX | 840        | Cool White (CW)    | 4000 K            | >80                   | 85 %                     | 53 lm/W                         | 320 lm              |
| 928001008250 | MASTER TL Mini Super 80 8W/827 FAM/10X25BOX | 827        | Incandescent White | 2700 K            | 82                    | 85 %                     | 59 lm/W                         | 470 lm              |
| 928001008350 | MASTER TL Mini Super 80 8W/830 FAM/10X25BOX | 830        | Warm White (WW)    | 3000 K            | 85                    | 85 %                     | 59 lm/W                         | 470 lm              |

## MASTER TL Mini Super 80

| Order Code   | Full Product Name                            | Color |                    | Correlated Color  | Color                 | Lumen                    |                                 |                     |
|--------------|--|-------|--------------------|-------------------|-----------------------|--------------------------|---------------------------------|---------------------|
|              |  | Code  | Color Designation  | Temperature (Nom) | Rendering Index (Nom) | Maintenance 2000 h (Nom) | Luminous Efficacy (rated) (Nom) | Luminous Flux (Nom) |
| 928001008450 | MASTER TL Mini Super 80 8W/840 FAM/10X25BOX  | 840   | Cool White (CW)    | 4000 K            | 85                    | 85 %                     | 59 lm/W                         | 470 lm              |
| 928001508250 | MASTER TL Mini Super 80 13W/827 FAM/10X25BOX | 827   | Incandescent White | 2700 K            | 82                    | 90 %                     | 77 lm/W                         | 1000 lm             |
| 928001508350 | MASTER TL Mini Super 80 13W/830 FAM/10X25BOX | 830   | Warm White (WW)    | 3000 K            | 85                    | 90 %                     | 77 lm/W                         | 1000 lm             |
| 928001508450 | MASTER TL Mini Super 80 13W/840 FAM/10X25BOX | 840   | Cool White (CW)    | 4000 K            | 85                    | 90 %                     | 77 lm/W                         | 1000 lm             |

