



# An affordable TL5 lamp with high light output

## TL5 Essential HO Super 80

Low-pressure mercury discharge T5 lamp with tubular 16 mm envelope and high lumen output.

### Benefits

- Allows system miniaturization and maximum freedom in luminaire design
- Optimized for installations requiring high luminous flux
- Good color rendering

### Features

- Designed for high lumen output and system miniaturization
- Highly efficient 3-band fluorescent coating in combination with precoating
- Specifically designed for operation with electronic gear
- Maximum lumen output reached at approx. 35 °C in free burning position if an HF electronic ballast without additional electrode heating is used
- Can be ignited from -10 °C to +50 °C

### Application

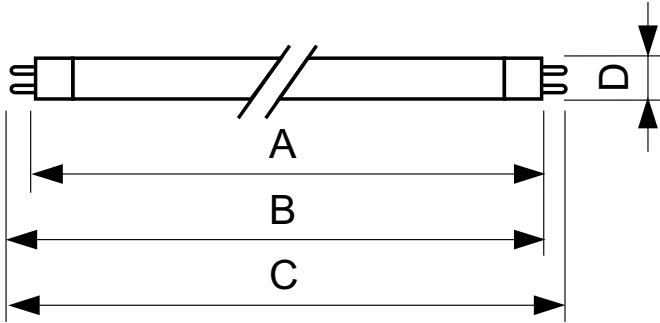
- Industry, public buildings, airports, indoor sports facilities, warehouses

### Warnings and Safety

- 20,000 hours lifetime (50% survival point, 3-hour cycle) with ENEC-compliant preheat ballast Lifetime performance may differ on non-ENEC-compliant ballasts

# TL5 Essential HO Super 80

## Dimensional drawing



| Product                            | D (max) | A (max)   | B (max)   | B (min)   | C (max)   |
|------------------------------------|---------|-----------|-----------|-----------|-----------|
| TL5 Essential HO<br>54W/865 1SL/40 | 17.0 mm | 1149.0 mm | 1156.1 mm | 1153.7 mm | 1163.2 mm |
| TL5 Essential HO<br>54W/850 1SL/40 | 17.0 mm | 1149.0 mm | 1156.1 mm | 1153.7 mm | 1163.2 mm |

### Controls and Dimming

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

### Operating and Electrical

|                    |         |
|--------------------|---------|
| Lamp Current (Nom) | 0.460 A |
| Power (Nom)        | 54 W    |

### General Information

|                                    |         |
|------------------------------------|---------|
| Cap-Base                           | G5      |
| Life To 50% Failures Preheat (Nom) | 20000 h |
| LSF Preheat 16000 h Rated          | 70 %    |
| LSF Preheat 20000 h Rated          | 50 %    |
| LSF Preheat 2000 h Rated           | 98 %    |
| LSF Preheat 4000 h Rated           | 97 %    |
| LSF Preheat 6000 h Rated           | 95 %    |
| LSF Preheat 8000 h Rated           | 93 %    |

### Light Technical

|                              |      |
|------------------------------|------|
| Colour Rendering Index (Max) | 85   |
| Colour Rendering Index (Min) | 80   |
| Colour Rendering Index (Nom) | 82   |
| LLMF 16000 h Rated           | 90 % |
| LLMF 2000 h Rated            | 95 % |
| LLMF 4000 h Rated            | 92 % |
| LLMF 8000 h Rated            | 90 % |

### Mechanical and Housing

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

## Approval and Application

| Order Code   | Full Product Name               | Energy Consumption kWh/<br>1000 h | Mercury (Hg) Content<br>(Nom) |
|--------------|---------------------------------|-----------------------------------|-------------------------------|
| 927929385040 | TL5 Essential HO 54W/850 1SL/40 | -                                 | 2.2 mg                        |
| 927929386540 | TL5 Essential HO 54W/865 1SL/40 | 54 kWh                            | 2.0 mg                        |

## Light Technical (1/2)

| Order Code   | Full Product Name               | Colour Code | Colour Designation | Correlated               |                    |
|--------------|---------------------------------|-------------|--------------------|--------------------------|--------------------|
|              |                                 |             |                    | Colour Temperature (Nom) | LLMF 12000 h Rated |
| 927929385040 | TL5 Essential HO 54W/850 1SL/40 | 850         | 850                | 5000 K                   | -                  |

| Order Code   | Full Product Name               | Colour Code | Colour Designation | Correlated               |                    |
|--------------|---------------------------------|-------------|--------------------|--------------------------|--------------------|
|              |                                 |             |                    | Colour Temperature (Nom) | LLMF 12000 h Rated |
| 927929386540 | TL5 Essential HO 54W/865 1SL/40 | 865         | Cool Daylight      | 6500 K                   | 90 %               |

# TL5 Essential HO Super 80

## Light Technical (2/2)

| Order Code   | Full Product Name                           | Luminous Efficacy (@) |           |           |          |          |
|--------------|---|-----------------------|-----------|-----------|----------|----------|
|              |   | LLMF                  | Max       | Luminous  | Luminous | Luminous |
|              |   | 6000                  | Lumen,    | Efficacy  | Luminous | Flux     |
|              |   | h                     | Rated)    | (rated)   | Flux     | (Rated)  |
|              |   | Rated                 | (Nom)     | (Nom)     | (Nom)    | (Nom)    |
| 927929385040 | TL5<br>Essential<br>HO<br>54W/850<br>1SL/40 | -                     | 90 lm/W   | 84 lm/W   | 4850 lm  | 4560 lm  |
| 927929386540 | TL5<br>Essential                            | 91 %                  | 87.4 lm/W | 81.9 lm/W | 4700 lm  | 4420 lm  |

| Order Code | Full Product Name       | Luminous Efficacy (@) |        |          |          |          |
|------------|-------------------------|-----------------------|--------|----------|----------|----------|
|            |                         | LLMF                  | Max    | Luminous | Luminous | Luminous |
|            |                         | 6000                  | Lumen, | Efficacy | Luminous | Flux     |
|            |                         | h                     | Rated) | (rated)  | Flux     | (Rated)  |
|            |                         | Rated                 | (Nom)  | (Nom)    | (Nom)    | (Nom)    |
|            | HO<br>54W/865<br>1SL/40 |                       |        |          |          |          |

## Temperature

| Order Code   | Full Product Name               | Design Temperature (Nom) |
|--------------|---------------------------------|--------------------------|
| 927929385040 | TL5 Essential HO 54W/850 1SL/40 | -                        |

| Order Code   | Full Product Name               | Design Temperature (Nom) |
|--------------|---------------------------------|--------------------------|
| 927929386540 | TL5 Essential HO 54W/865 1SL/40 | 30 °C                    |

