



# Fit-for-use TL5 lamp

## TL5 Essential HE Super 80

Philips TL5 Essential Super80 is a new fluorescent lamp which provides home users and professional end-users an aesthetic miniaturized lighting solution with high reliability at low price.

### Benefits

- 40% less tube dimension than T8 fluorescent lamps. Reducing luminaire, stock and transportation cost
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- Slim 16 mm tube allows more compact and flexible luminaire design
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- Max lumen output at 35°C ambient temperature, more suitable to actual lighting situation
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- Comfortable working and living ambiances with CRI more than 80
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- Provides highly reliable and high quality lighting solution at low cost
- Provides highly reliable and high quality lighting solution at low cost
- Creates atmospheres from warm white to cool daylight
- Creates atmospheres from warm white to cool daylight

### Features

- Small diameter of 16mm only
- Small diameter of 16mm only
- "Cold Chamber" technology
- "Cold Chamber" technology
- Applied with electronic ballast for TL5 only
- Applied with electronic ballast for TL5 only
- Operate at temperature from 5°C to 50°C
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# TL5 Essential HE Super 80

## Application

- Suitable for use at locations where need compact, high efficient, energy saving lighting. Including offices, shops, supermarkets, schools, hospitals and industrial lighting.
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## Warnings and Safety

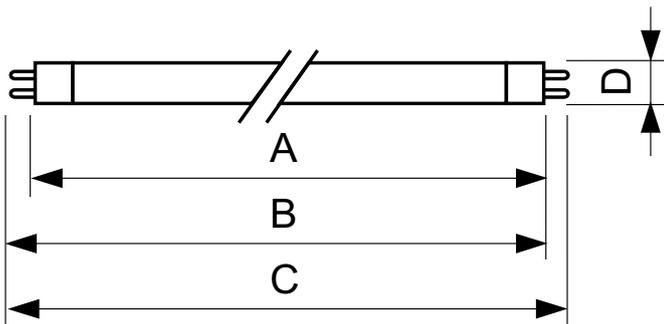
- 20,000 hours lifetime (50% survival point, 3 hour cycle) with preheat ballast which is ENEC compliant. Lifetime performance may differ on non-ENEC compliant ballasts.
- 20,000 hours lifetime (50% survival point, 3 hour cycle) with preheat ballast which is ENEC compliant. Lifetime performance may differ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

## Versions



LPPR TL5ESS8

## Dimensional drawing



| Product                      | D (max) | A (max)    | B (max)    | B (min)    | C (max)    |
|------------------------------|---------|------------|------------|------------|------------|
| TL5 Essential 14W/830 1SL/40 | 17.0 mm | 549.0 mm   | 556.1 mm   | 553.7 mm   | 563.2 mm   |
| TL5 Essential 14W/840 1SL/40 | 17.0 mm | 549.0 mm   | 556.1 mm   | 553.7 mm   | 563.2 mm   |
| TL5 Essential 14W/865 1SL/40 | 17.0 mm | 549.0 mm   | 556.1 mm   | 553.7 mm   | 563.2 mm   |
| TL5 Essential 21W/830 1SL/40 | 17.0 mm | 849.0 mm   | 856.1 mm   | 853.7 mm   | 863.2 mm   |
| TL5 Essential 21W/840 1SL/40 | 17.0 mm | 849.0 mm   | 856.1 mm   | 853.7 mm   | 863.2 mm   |
| TL5 Essential 21W/865 1SL/40 | 17.0 mm | 849.0 mm   | 856.1 mm   | 853.7 mm   | 863.2 mm   |
| TL5 Essential 28W/830 1SL/40 | 17.0 mm | 1,149.0 mm | 1,156.1 mm | 1,153.7 mm | 1,163.2 mm |
| TL5 Essential 28W/840 1SL/40 | 17.0 mm | 1,149.0 mm | 1,156.1 mm | 1,153.7 mm | 1,163.2 mm |
| TL5 Essential 28W/865 1SL/40 | 17.0 mm | 1,149.0 mm | 1,156.1 mm | 1,153.7 mm | 1,163.2 mm |

# TL5 Essential HE Super 80

| General Information         |         |
|-----------------------------|---------|
| Cap-Base                    | G5      |
| Light Technical             |         |
| Color rendering index (CRI) | 82      |
| Operating and Electrical    |         |
| Lamp Current (Nom)          | 0.170 A |
| Controls and Dimming        |         |
| Dimmable                    | No      |
| Mechanical and Housing      |         |
| Bulb Shape                  | T5      |
| Approval and Application    |         |
| Mercury (Hg) Content (Nom)  | 2.0 mg  |

## General Information

| Order Code   | Full Product Name            | Nominal lifetime |
|--------------|------------------------------|------------------|
| 927925983058 | TL5 Essential 14W/830 1SL/40 | 15,000 hour(s)   |
| 927925984058 | TL5 Essential 14W/840 1SL/40 | 15,000 hour(s)   |
| 927925986558 | TL5 Essential 14W/865 1SL/40 | 15,000 hour(s)   |
| 927926483058 | TL5 Essential 21W/830 1SL/40 | -                |
| 927926484058 | TL5 Essential 21W/840 1SL/40 | -                |

| Order Code   | Full Product Name            | Nominal lifetime |
|--------------|------------------------------|------------------|
| 927926486558 | TL5 Essential 21W/865 1SL/40 | -                |
| 927926783058 | TL5 Essential 28W/830 1SL/40 | 15,000 hour(s)   |
| 927926784058 | TL5 Essential 28W/840 1SL/40 | 15,000 hour(s)   |
| 927926786558 | TL5 Essential 28W/865 1SL/40 | 15,000 hour(s)   |

## Light Technical

| Order Code   | Full Product Name            | Color Designation | Correlated Color  | Luminous Efficacy | Luminous Flux |
|--------------|------------------------------|-------------------|-------------------|-------------------|---------------|
|              |                              |                   | Temperature (Nom) | (rated) (Nom)     | (Nom)         |
| 927925983058 | TL5 Essential 14W/830 1SL/40 | Warm White (WW)   | 3000 K            | 88 lm/W           | 1,350 lm      |
| 927925984058 | TL5 Essential 14W/840 1SL/40 | Cool White (CW)   | 4000 K            | 88 lm/W           | 1,350 lm      |
| 927925986558 | TL5 Essential 14W/865 1SL/40 | Cool Daylight     | 6500 K            | 84 lm/W           | 1,260 lm      |
| 927926483058 | TL5 Essential 21W/830 1SL/40 | Warm White (WW)   | 3000 K            | 94 lm/W           | 2,100 lm      |
| 927926484058 | TL5 Essential 21W/840 1SL/40 | Cool White (CW)   | 4000 K            | 94 lm/W           | 2,100 lm      |

| Order Code   | Full Product Name            | Color Designation | Correlated Color  | Luminous Efficacy | Luminous Flux |
|--------------|------------------------------|-------------------|-------------------|-------------------|---------------|
|              |                              |                   | Temperature (Nom) | (rated) (Nom)     | (Nom)         |
| 927926486558 | TL5 Essential 21W/865 1SL/40 | Cool Daylight     | 6500 K            | 84 lm/W           | 1,900 lm      |
| 927926783058 | TL5 Essential 28W/830 1SL/40 | Warm White (WW)   | 3000 K            | 94 lm/W           | 2,900 lm      |
| 927926784058 | TL5 Essential 28W/840 1SL/40 | Cool White (CW)   | 4000 K            | 94 lm/W           | 2,900 lm      |
| 927926786558 | TL5 Essential 28W/865 1SL/40 | Cool Daylight     | 6500 K            | 94 lm/W           | 2,700 lm      |

## Operating and Electrical

## TL5 Essential HE Super 80

| Order Code   | Full Product Name            | Power Consumption |
|--------------|------------------------------|-------------------|
| 927925983058 | TL5 Essential 14W/830 1SL/40 | 14.3 W            |
| 927925984058 | TL5 Essential 14W/840 1SL/40 | 14.3 W            |
| 927925986558 | TL5 Essential 14W/865 1SL/40 | 14 W              |
| 927926483058 | TL5 Essential 21W/830 1SL/40 | 20.8 W            |
| 927926484058 | TL5 Essential 21W/840 1SL/40 | 20.8 W            |

| Order Code   | Full Product Name            | Power Consumption |
|--------------|------------------------------|-------------------|
| 927926486558 | TL5 Essential 21W/865 1SL/40 | 20.8 W            |
| 927926783058 | TL5 Essential 28W/830 1SL/40 | 27.8 W            |
| 927926784058 | TL5 Essential 28W/840 1SL/40 | 27.8 W            |
| 927926786558 | TL5 Essential 28W/865 1SL/40 | 27.8 W            |

### Approval and Application

| Order Code   | Full Product Name            | Energy Consumption kWh/1000 h |
|--------------|------------------------------|-------------------------------|
| 927925983058 | TL5 Essential 14W/830 1SL/40 | -                             |
| 927925984058 | TL5 Essential 14W/840 1SL/40 | 15 kWh                        |
| 927925986558 | TL5 Essential 14W/865 1SL/40 | 15 kWh                        |
| 927926483058 | TL5 Essential 21W/830 1SL/40 | 23 kWh                        |
| 927926484058 | TL5 Essential 21W/840 1SL/40 | -                             |

| Order Code   | Full Product Name            | Energy Consumption kWh/1000 h |
|--------------|------------------------------|-------------------------------|
| 927926486558 | TL5 Essential 21W/865 1SL/40 | -                             |
| 927926783058 | TL5 Essential 28W/830 1SL/40 | 31 kWh                        |
| 927926784058 | TL5 Essential 28W/840 1SL/40 | 31 kWh                        |
| 927926786558 | TL5 Essential 28W/865 1SL/40 | 31 kWh                        |

