



# 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
- 40% less tube dimension than T8 fluorescent lamps. Reducing luminaire, stock and transportation cost
- Slim 16 mm tube allows more compact and flexible luminaire design
- Slim 16 mm tube allows more compact and flexible luminaire design
- Max lumen output at 35°C ambient temperature, more suitable to actual lighting situation
- Max lumen output at 35°C ambient temperature, more suitable to actual lighting situation
- Comfortable working and living ambiances with CRI more than 80
- Comfortable working and living ambiances with CRI more than 80
- 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
- Operate at temperature from 5°C to 50°C

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

## Warnings and Safety

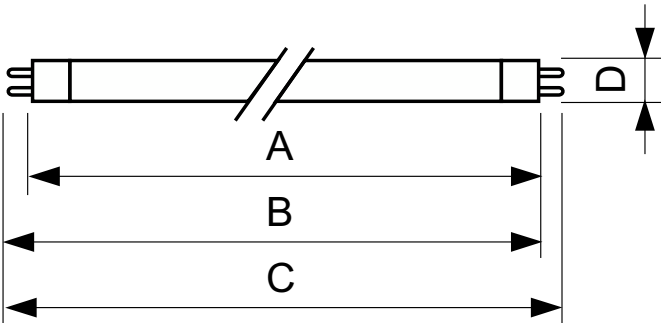
- 20,000 hours lifetime (50% survival point, 3 hour cycle) with preheat ballast which is ENEC compliant. Lifetime performance may differ on non-ENEC compliant ballasts.
- 20,000 hours lifetime (50% survival point, 3 hour cycle) with preheat ballast which is ENEC compliant. Lifetime performance may differ 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            |                 | Correlated Color Temperature (Nom) | Luminous Efficacy (rated) (Nom) | Luminous Flux |
|--------------|------------------------------|-----------------|------------------------------------|---------------------------------|---------------|
|              | Name                         | Designation     |                                    |                                 |               |
| 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            |                 | Correlated Color Temperature (Nom) | Luminous Efficacy (rated) (Nom) | Luminous Flux |
|--------------|------------------------------|-----------------|------------------------------------|---------------------------------|---------------|
|              | Name                         | Designation     |                                    |                                 |               |
| 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                        |

