



# 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
- 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
- Comfortable working and living ambiances with CRI more than 80
- Provides highly reliable and high quality lighting solution at low cost
- Creates atmospheres from warm white to cool daylight

### Features

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

### Application

- 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.

# TL5 Essential HE Super 80

## Versions



28 W G5 Cool white Linear  
fluorescent tube - RFT



28 W G5 Warm white Linear  
fluorescent tube - RFT



14 W G5 Warm white Linear  
fluorescent tube - RFT



28 W G5 Cool daylight Linear  
fluorescent tube - RFT

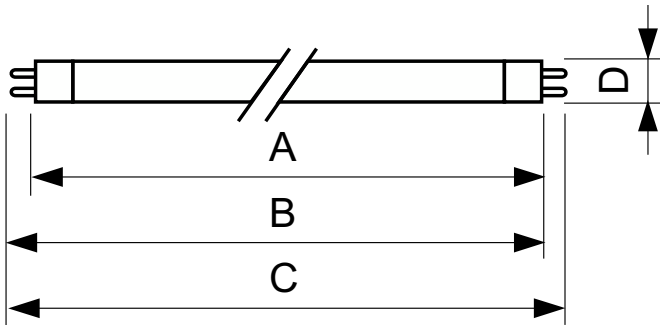


14 W G5 Cool daylight Linear  
fluorescent tube - RFT



LPPR TL5ESS8

## Dimensional drawing



Product	D (max)	A (max)	B (max)	B (min)	C (max)
14 W G5 Cool daylight Linear fluorescent tube	17.0 mm	549.0 mm	556.1 mm	553.7 mm	563.2 mm
14 W G5 Warm white Linear fluorescent tube	17.0 mm	549.0 mm	556.1 mm	553.7 mm	563.2 mm
28 W G5 Cool daylight Linear fluorescent tube	17.0 mm	1,149.0 mm	1,156.1 mm	1,153.7 mm	1,163.2 mm
28 W G5 Cool white Linear fluorescent tube	17.0 mm	1,149.0 mm	1,156.1 mm	1,153.7 mm	1,163.2 mm
28 W G5 Warm white Linear fluorescent tube	17.0 mm	1,149.0 mm	1,156.1 mm	1,153.7 mm	1,163.2 mm
TL5 Essential 14W/827 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/865 1SL/40	17.0 mm	849.0 mm	856.1 mm	853.7 mm	863.2 mm

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

## TL5 Essential HE Super 80

Order Code	Full Product Name	Nominal lifetime
927926784058	28 W G5 Cool white Linear fluorescent tube	15,000 hour(s)
927926783058	28 W G5 Warm white Linear fluorescent tube	15,000 hour(s)
927925983058	14 W G5 Warm white Linear fluorescent tube	15,000 hour(s)
927926786558	28 W G5 Cool daylight Linear fluorescent tube	15,000 hour(s)

Order Code	Full Product Name	Nominal lifetime
927925986558	14 W G5 Cool daylight Linear fluorescent tube	15,000 hour(s)
927925982758	TL5 Essential 14W/827 1SL/40	-
927926483058	TL5 Essential 21W/830 1SL/40	-
927926486558	TL5 Essential 21W/865 1SL/40	-

### Light Technical

Order Code	Full Product Name	Color Designation	Correlated Color	Luminous Efficacy	Luminous
			Temperature (Nom)	(rated) (Nom)	Flux
927926784058	28 W G5 Cool white Linear fluorescent tube	Cool White (CW)	4000 K	94 lm/W	2,900 lm
927926783058	28 W G5 Warm white Linear fluorescent tube	Warm White (WW)	3000 K	94 lm/W	2,900 lm
927925983058	14 W G5 Warm white Linear fluorescent tube	Warm White (WW)	3000 K	88 lm/W	1,350 lm
927926786558	28 W G5 Cool daylight Linear	Cool Daylight	6500 K	94 lm/W	2,700 lm

Order Code	Full Product Name	Color Designation	Correlated Color	Luminous Efficacy	Luminous
			Temperature (Nom)	(rated) (Nom)	Flux
	fluorescent tube				
927925986558	14 W G5 Cool daylight Linear fluorescent tube	Cool Daylight	6500 K	84 lm/W	1,260 lm
927925982758	TL5 Essential 14W/827 1SL/40	Incandescent White	2700 K	88 lm/W	1,350 lm
927926483058	TL5 Essential 21W/830 1SL/40	Warm White (WW)	3000 K	94 lm/W	2,100 lm
927926486558	TL5 Essential 21W/865 1SL/40	Cool Daylight	6500 K	84 lm/W	1,900 lm

### Operating and Electrical

Order Code	Full Product Name	Power Consumption
927926784058	28 W G5 Cool white Linear fluorescent tube	28 W
927926783058	28 W G5 Warm white Linear fluorescent tube	28 W
927925983058	14 W G5 Warm white Linear fluorescent tube	14 W
927926786558	28 W G5 Cool daylight Linear fluorescent tube	28 W

Order Code	Full Product Name	Power Consumption
927925986558	14 W G5 Cool daylight Linear fluorescent tube	14 W
927925982758	TL5 Essential 14W/827 1SL/40	14.3 W
927926483058	TL5 Essential 21W/830 1SL/40	20.8 W
927926486558	TL5 Essential 21W/865 1SL/40	20.8 W

### Approval and Application

Order Code	Full Product Name	Energy Consumption kWh/1000 h
927926784058	28 W G5 Cool white Linear fluorescent tube	31 kWh
927926783058	28 W G5 Warm white Linear fluorescent tube	31 kWh
927925983058	14 W G5 Warm white Linear fluorescent tube	-
927926786558	28 W G5 Cool daylight Linear fluorescent tube	31 kWh

Order Code	Full Product Name	Energy Consumption kWh/1000 h
927925986558	14 W G5 Cool daylight Linear fluorescent tube	15 kWh
927925982758	TL5 Essential 14W/827 1SL/40	-
927926483058	TL5 Essential 21W/830 1SL/40	23 kWh
927926486558	TL5 Essential 21W/865 1SL/40	-

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