



# 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

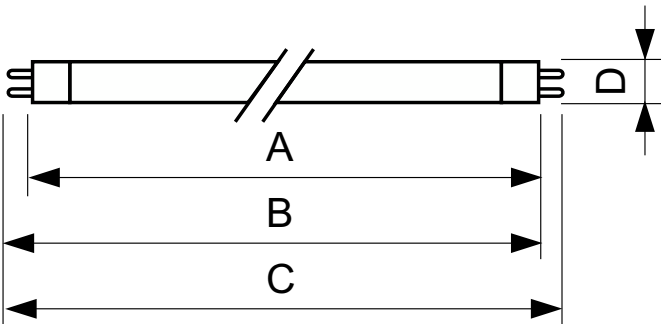


LPPR TL5ESS8



14 W G5 Cool white Linear  
fluorescent tube - RFT

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 Cool white 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 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

Product details



14 W G5 Cool white Linear  
fluorescent tube - D1\_

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
57045155	TL5 Essential 28W/840 1SL/40	15,000 hour(s)
57043755	TL5 Essential 28W/830 1SL/40	15,000 hour(s)
57031455	TL5 Essential 14W/830 1SL/40	15,000 hour(s)
57047555	TL5 Essential 28W/865 1SL/40	15,000 hour(s)
57035255	TL5 Essential 14W/865 1SL/40	15,000 hour(s)

Order Code	Full Product Name	Nominal lifetime
57037655	TL5 Essential 21W/830 1SL/40	-
57039055	TL5 Essential 21W/840 1SL/40	-
57041355	TL5 Essential 21W/865 1SL/40	-
57033855	TL5 Essential 14W/840 1SL/40	15,000 hour(s)

Light Technical

Order Code	Full Product Name	Color Designation	Correlated Color Temperature (Nom)	Luminous Efficacy (rated) (Nom)	Luminous Flux
57045155	TL5 Essential 28W/840 1SL/40	Cool White (CW)	4000 K	94 lm/W	2,900 lm
57043755	TL5 Essential 28W/830 1SL/40	Warm White (WW)	3000 K	94 lm/W	2,900 lm
57031455	TL5 Essential 14W/830 1SL/40	Warm White (WW)	3000 K	88 lm/W	1,350 lm
57047555	TL5 Essential 28W/865 1SL/40	Cool Daylight	6500 K	94 lm/W	2,700 lm
57035255	TL5 Essential 14W/865 1SL/40	Cool Daylight	6500 K	84 lm/W	1,260 lm

Order Code	Full Product Name	Color Designation	Correlated Color Temperature (Nom)	Luminous Efficacy (rated) (Nom)	Luminous Flux
57037655	TL5 Essential 21W/830 1SL/40	Warm White (WW)	3000 K	94 lm/W	2,100 lm
57039055	TL5 Essential 21W/840 1SL/40	Cool White (CW)	4000 K	94 lm/W	2,100 lm
57041355	TL5 Essential 21W/865 1SL/40	Cool Daylight	6500 K	84 lm/W	1,900 lm
57033855	TL5 Essential 14W/840 1SL/40	Cool White (CW)	4000 K	88 lm/W	1,350 lm

Operating and Electrical

# TL5 Essential HE Super 80

Order Code	Full Product Name	Power Consumption
57045155	TL5 Essential 28W/840 1SL/40	28 W
57043755	TL5 Essential 28W/830 1SL/40	28 W
57031455	TL5 Essential 14W/830 1SL/40	14 W
57047555	TL5 Essential 28W/865 1SL/40	28 W
57035255	TL5 Essential 14W/865 1SL/40	14 W

Order Code	Full Product Name	Power Consumption
57037655	TL5 Essential 21W/830 1SL/40	20.8 W
57039055	TL5 Essential 21W/840 1SL/40	20.8 W
57041355	TL5 Essential 21W/865 1SL/40	20.8 W
57033855	TL5 Essential 14W/840 1SL/40	14 W

## Approval and Application

Order Code	Full Product Name	Energy Consumption kWh/1000 h
57045155	TL5 Essential 28W/840 1SL/40	31 kWh
57043755	TL5 Essential 28W/830 1SL/40	31 kWh
57031455	TL5 Essential 14W/830 1SL/40	-
57047555	TL5 Essential 28W/865 1SL/40	31 kWh
57035255	TL5 Essential 14W/865 1SL/40	15 kWh

Order Code	Full Product Name	Energy Consumption kWh/1000 h
57037655	TL5 Essential 21W/830 1SL/40	23 kWh
57039055	TL5 Essential 21W/840 1SL/40	-
57041355	TL5 Essential 21W/865 1SL/40	-
57033855	TL5 Essential 14W/840 1SL/40	15 kWh

