

# Lighting

**PHILIPS** 

# 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
- $\cdot$  Max lumen output at 35°C ambient temperature, more suitable to actual lighting situation
- $\cdot$  Comfortable working and living ambiences with CRI more than 80
- Provides highly reliable and high quality lighting solution at low cost
- $\cdot$  Creates atmospheres from warm white to cool daylight

#### Features

- $\cdot$  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



fluorescent tube - RFT



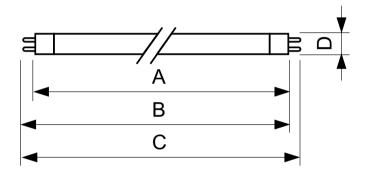
14 W G5 Warm white Linear fluorescent tube - RFT

28 W G5 Cool white Linear

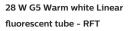


14 W G5 Cool daylight Linear fluorescent tube - RFT

#### **Dimensional drawing**



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14 W G5 Cool white Linear fluorescent tube - RFT

Product	D (max)	A (max)	B (max)	B (min)	C (max)
14 W G5 Cool daylight Linear	17.0 mm	549.0 mm	556.1 mm	553.7 mm	563.2 mm
fluorescent tube					
14 W G5 Cool white Linear	17.0 mm	549.0 mm	556.1 mm	553.7 mm	563.2 mm
fluorescent tube					
14 W G5 Warm white Linear	17.0 mm	549.0 mm	556.1 mm	553.7 mm	563.2 mm
fluorescent tube					
28 W G5 Cool daylight Linear	17.0 mm	1,149.0 mm	1,156.1 mm	1,153.7 mm	1,163.2 mm
fluorescent tube					
28 W G5 Cool white Linear	17.0 mm	1,149.0 mm	1,156.1 mm	1,153.7 mm	1,163.2 mm
fluorescent tube					
28 W G5 Warm white Linear	17.0 mm	1,149.0 mm	1,156.1 mm	1,153.7 mm	1,163.2 mm
fluorescent tube					
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	Т5
Approval and Application	
Mercury (Hg) Content (Nom)	2.0 mg

#### **General Information**

Order Code	Full Product Name	Nominal lifetime	Order Code	Full Product Name	Nominal lifetime
927926784058	28 W G5 Cool white Linear fluorescent tube	15,000 hour(s)	927926483058	TL5 Essential 21W/830 1SL/40	-
927926783058	28 W G5 Warm white Linear fluorescent tube	15,000 hour(s)	927926484058	TL5 Essential 21W/840 1SL/40	-
927925983058	14 W G5 Warm white Linear fluorescent tube	15,000 hour(s)	927926486558	TL5 Essential 21W/865 1SL/40	-
927926786558	28 W G5 Cool daylight Linear fluorescent tube	15,000 hour(s)	927925984058	14 W G5 Cool white Linear fluorescent tube	15,000 hour(s)
927925986558	14 W G5 Cool daylight Linear fluorescent tube	15,000 hour(s)			

#### Light Technical

Light Techni	cai										
			Correlated	Luminous					Correlated	Luminous	
			Color	Efficacy					Color	Efficacy	
	Full Product	Color	Temperature	(rated)	Luminous		Full Product	Color	Temperature	(rated)	Luminous
Order Code	Name	Designation	(Nom)	(Nom)	Flux	Order Code	Name	Designation	(Nom)	(Nom)	Flux
927926784058	28 W G5 Cool	Cool White	4000 K	94 lm/W	2,900 lm		fluorescent				
	white Linear	(CW)					tube				
	fluorescent					927926483058	TL5 Essential	Warm White	3000 K	94 lm/W	2,100 lm
	tube						21W/830	(WW)			
927926783058	28 W G5 Warm	Warm White	3000 K	94 lm/W	2,900 lm		1SL/40				
	white Linear	(WW)				927926484058	TL5 Essential	Cool White	4000 K	94 lm/W	2,100 lm
	fluorescent						21W/840	(CW)			
	tube						1SL/40				
927925983058	14 W G5 Warm	Warm White	3000 K	88 lm/W	1,350 lm	927926486558	TL5 Essential	Cool Daylight	6500 K	84 lm/W	1,900 lm
	white Linear	(WW)					21W/865				
	fluorescent						1SL/40				
	tube					927925984058	14 W G5 Cool	Cool White	4000 K	88 lm/W	1,350 lm
927926786558	28 W G5 Cool	Cool Daylight	6500 K	94 lm/W	2,700 lm		white Linear	(CW)			
	daylight Linear						fluorescent				
	fluorescent						tube				
	tube										
927925986558	14 W G5 Cool	Cool Daylight	6500 K	84 lm/W	1,260 lm						
	daylight Linear										

#### **Operating and Electrical**

#### **TL5 Essential HE Super 80**

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
927925986558	14 W G5 Cool daylight Linear fluorescent tube	14 W

Full Product Name	Power Consumption
TL5 Essential 21W/830 1SL/40	20.8 W
TL5 Essential 21W/840 1SL/40	20.8 W
TL5 Essential 21W/865 1SL/40	20.8 W
14 W G5 Cool white Linear fluorescent tube	14 W
	TL5 Essential 21W/830 ISL/40 TL5 Essential 21W/840 ISL/40 TL5 Essential 21W/865 ISL/40

#### Approval and Application

		Energy Consumption
Order Code	Full Product Name	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
927925986558	14 W G5 Cool daylight Linear fluorescent tube	15 kWh

		Energy Consumption
Order Code	Full Product Name	kWh/1000 h
927926483058	TL5 Essential 21W/830 1SL/40	23 kWh
927926484058	TL5 Essential 21W/840 1SL/40	-
927926486558	TL5 Essential 21W/865 1SL/40	-
927925984058	14 W G5 Cool white Linear fluorescent tube	15 kWh



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