



# 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**

- $\cdot$  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
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- $\cdot$  Max lumen output at 35°C ambient temperature, more suitable to actual lighting situation
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- · Comfortable working and living ambiences with CRI more than 80
- · Comfortable working and living ambiences 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**

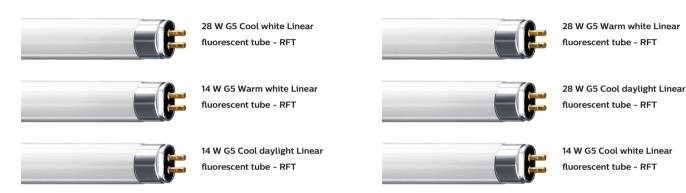
#### **Application**

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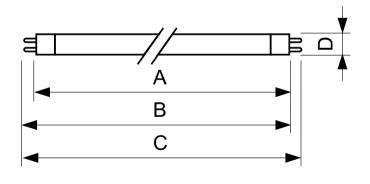
### **Warnings and Safety**

- 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



#### Dimensional drawing



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

# **TL5 Essential HE Super 80**

# **Product details**



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

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
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)
927925986558	14 W G5 Cool daylight Linear fluorescent tube	15,000 hour(s)

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

# **Light Technical**

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

Order Code         Name         Designation         (Nom)         (Nom)         Flux           927926786558         28 W G5 Cool daylight Linear fluorescent tube         Cool Daylight 6500 K         94 lm/W         2,700 lm           927925986558         14 W G5 Cool daylight Linear fluorescent tube         6500 K         84 lm/W         1,260 lm           927925986558         14 W G5 Cool daylight Linear fluorescent tube         927926483058         7L5 Essential Warm White 3000 K         94 lm/W         2,100 lm           927926483058         7L5 Essential Tube         Warm White 3000 K         94 lm/W         2,100 lm				Correlated Color	Luminous Efficacy	
927926786558 28 W G5 Cool Cool Daylight 6500 K 94 lm/W 2,700 lm daylight Linear fluorescent tube  927925986558 14 W G5 Cool Cool Daylight 6500 K 84 lm/W 1,260 lm daylight Linear fluorescent tube  927926483058 TL5 Essential Warm White 3000 K 94 lm/W 2,100 lm		Full Product	Color	Temperature	(rated)	Luminous
daylight Linear   fluorescent   tube	Order Code	Name	Designation	(Nom)	(Nom)	Flux
Section   Filter   Filter	927926786558	28 W G5 Cool	Cool Daylight	6500 K	94 lm/W	2,700 lm
tube  927925986558 14 W G5 Cool Cool Daylight 6500 K 84 lm/W 1,260 lm daylight Linear fluorescent tube  927926483058 TL5 Essential Warm White 3000 K 94 lm/W 2,100 lm		daylight Linear				
927925986558 14 W G5 Cool Cool Daylight 6500 K 84 lm/W 1,260 lm daylight Linear fluorescent tube  927926483058 TL5 Essential Warm White 3000 K 94 lm/W 2,100 lm		fluorescent				
daylight Linear fluorescent tube  927926483058 TL5 Essential Warm White 3000 K 94 lm/W 2,100 lm		tube				
fluorescent   tube	927925986558	14 W G5 Cool	Cool Daylight	6500 K	84 lm/W	1,260 lm
tube  927926483058 TL5 Essential Warm White 3000 K 94 lm/W 2,100 lm		daylight Linear				
927926483058 TL5 Essential Warm White 3000 K 94 lm/W 2,100 lm		fluorescent				
		tube				
21W/830 (WW)	927926483058	TL5 Essential	Warm White	3000 K	94 lm/W	2,100 lm
		21W/830	(WW)			
1SL/40		1SL/40				

# **TL5 Essential HE Super 80**

	Full Product	Color	Correlated Color Temperature	Luminous Efficacy (rated)	Luminous
Order Code	Name	Designation	(Nom)	(Nom)	Flux
927926484058	TL5 Essential 21W/840 1SL/40	Cool White (CW)	4000 K	94 lm/W	2,100 lm
927926486558	TL5 Essential 21W/865 1SL/40	Cool Daylight	6500 K	84 lm/W	1,900 lm

			Correlated	Luminous	
			Color	Efficacy	
	Full Product	Color	Temperature	(rated)	Luminous
Order Code	Name	Designation	(Nom)	(Nom)	Flux
927925984058	14 W G5 Cool	Cool White	4000 K	88 lm/W	1,350 lm
	white Linear	(CW)			
	fluorescent				
	tube				

# 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
927925986558	14 W G5 Cool daylight Linear fluorescent tube	14 W

Order Code	Full Product Name	Power Consumption
927926483058	TL5 Essential 21W/830 1SL/40	20.8 W
927926484058	TL5 Essential 21W/840 1SL/40	20.8 W
927926486558	TL5 Essential 21W/865 1SL/40	20.8 W
927925984058	14 W G5 Cool white Linear fluorescent tube	14 W

#### **Approval and Application**

		<b>Energy Consumption</b>
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

		<b>Energy Consumption</b>
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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