

# 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

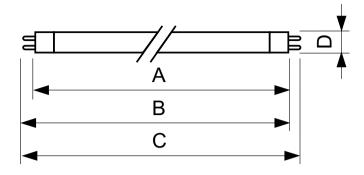
• Suitable for use at locations where need compact, high efficient, energy saving lighting. Including offices, shops, supermarkets, schools, hospitals and industrial lighting.

## 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**

# 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	17.0 mm	1,149.0 mm	1,156.1 mm	1,153.7 mm	1,163.2 mm
1SL/40					
TL5 Essential 28W/840	17.0 mm	1,149.0 mm	1,156.1 mm	1,153.7 mm	1,163.2 mm
1SL/40					
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

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
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

			Correlated	Luminous	
			Color	Efficacy	
	Full Product	Color	Temperature	(rated)	Luminous
Order Code	Name	Designation	(Nom)	(Nom)	Flux
927925983058	TL5 Essential	Warm White	3000 K	88 lm/W	1,350 lm
	14W/830	(WW)			
	1SL/40				

		Correlated	Luminous	
		Color	Efficacy	
Full Product	Color	Temperature	(rated)	Luminous
Name	Designation	(Nom)	(Nom)	Flux
TL5 Essential	Cool White	4000 K	88 lm/W	1,350 lm
14W/840	(CW)			
1SL/40				
	Name TL5 Essential 14W/840	NameDesignationTL5 EssentialCool White14W/840(CW)	Full Product  Color    Full Product  Color    Name  Designation    TL5 Essentia  Cool White    14W/840  CW3	Full Product  Color  Efficacy    Full Product  Color  Temperature  (rated)    Name  Designation  (Nom)  (Nom)    TL5 Essentia  Cool White  4000 K  88 lm/W    14W/840  CW)

# **TL5 Essential HE Super 80**

			Correlated	Luminous		
			Color	Efficacy		
	Full Product	Color	Temperature	(rated)	Luminous	
Order Code	Name	Designation	(Nom)	(Nom)	Flux	Order Cod
927925986558	TL5 Essential	Cool Daylight	6500 K	84 lm/W	1,260 lm	927926783
	14W/865					
	1SL/40					
927926483058	TL5 Essential	Warm White	3000 K	94 lm/W	2,100 lm	927926784
	21W/830	(WW)				
	1SL/40					
927926484058	TL5 Essential	Cool White	4000 K	94 lm/W	2,100 lm	927926786
	21W/840	(CW)				
	1SL/40					
927926486558	TL5 Essential	Cool Daylight	6500 K	84 lm/W	1,900 lm	
	21W/865					
	1SL/40					

			Correlated Color	Luminous Efficacy	
	Full Product	Color	Temperature	(rated)	Luminous
Order Code	Name	Designation	(Nom)	(Nom)	Flux
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**

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



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