

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

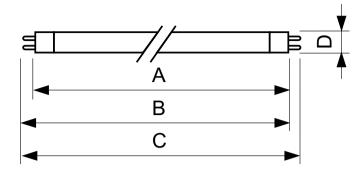
• Suitable for use at locations where need compact, high efficient, energy saving lighting. Including offices, shops, supermarkets, schools, hospitals and industrial lighting.

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/827 1SL/40	17.0 mm	549.0 mm	556.1 mm	553.7 mm	563.2 mm
TL5 Essential 14W/830 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/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 1SL/40	17.0 mm	1,149.0 mm	1,156.1 mm	1,153.7 mm	1,163.2 mm
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	T5
Approval and Application	
Mercury (Hg) Content (Nom)	2.0 mg

General Information

Order Code	Full Product Name	Nominal lifetime
927925982758	TL5 Essential 14W/827 1SL/40	-
927925983058	TL5 Essential 14W/830 1SL/40	15,000 hour(s)
927925986558	TL5 Essential 14W/865 1SL/40	15,000 hour(s)
927926483058	TL5 Essential 21W/830 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					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
927925982758	TL5	Incandescent	2700 K	88 lm/W	1,350 lm	927925983058	TL5	Warm White	3000 K	88 lm/W	1,350 lm
	Essential	White					Essential	(WW)			
	14W/827						14W/830				
	1SL/40						1SL/40				

TL5 Essential HE Super 80

	Full Product	Color	Correlated Color Temperature	Luminous Efficacy (rated)	Luminous		Full Product	Color	Correlated Color Temperature	Luminous Efficacy (rated)	Luminous
Order Code	Name	Designation	(Nom)	(Nom)	Flux	Order Code	Name	Designation	(Nom)	(Nom)	Flux
927925986558	TL5	Cool Daylight	6500 K	84 lm/W	1,260 lm	927926783058	TL5	Warm White	3000 K	94 lm/W	2,900 lm
	Essential						Essential	(WW)			
	14W/865						28W/830				
	1SL/40						1SL/40				
927926483058	TL5	Warm White	3000 K	94 lm/W	2,100 lm	927926784058	TL5	Cool White	4000 K	94 lm/W	2,900 lm
	Essential	(WW)					Essential	(CW)			
	21W/830						28W/840				
	1SL/40						1SL/40				
927926486558	TL5	Cool Daylight	6500 K	84 lm/W	1,900 lm	927926786558	TL5	Cool Daylight	6500 K	94 lm/W	2,700 lm
	Essential						Essential				
	21W/865						28W/865				
	1SL/40						1SL/40				

Operating and Electrical

Order Code	Full Product Name	Power Consumption	Order Code	Full Product Name	Power Consumption
927925982758	TL5 Essential 14W/827 1SL/40	14.3 W	927926486558	TL5 Essential 21W/865 1SL/40	20.8 W
927925983058	TL5 Essential 14W/830 1SL/40	14.3 W	927926783058	TL5 Essential 28W/830 1SL/40	27.8 W
927925986558	TL5 Essential 14W/865 1SL/40	14 W	927926784058	TL5 Essential 28W/840 1SL/40	27.8 W
927926483058	TL5 Essential 21W/830 1SL/40	20.8 W	927926786558	TL5 Essential 28W/865 1SL/40	27.8 W

Approval and Application

Order Code	Full Product Name	Energy Consumption kWh/1000 h
927925982758	TL5 Essential 14W/827 1SL/40	-
927925983058	TL5 Essential 14W/830 1SL/40	-
927925986558	TL5 Essential 14W/865 1SL/40	15 kWh
927926483058	TL5 Essential 21W/830 1SL/40	23 kWh

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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