



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
- · 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 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

- · 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

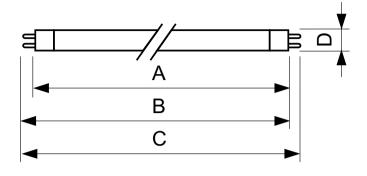
• Suitable for use at locations where need compact, high efficient, energy saving lighting. Including offices, shops, supermarkets, schools, hospitals and industrial lighting.

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/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/827 1SL/40	17.0 mm	849.0 mm	856.1 mm	853.7 mm	863.2 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/827 1SL/40	17.0 mm	1,149.0 mm	1,156.1 mm	1,153.7 mm	1,163.2 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	T5
Approval and Application	
Mercury (Hg) Content (Nom)	2.0 mg

General Information

Full Product Name	Nominal lifetime
TL5 Essential 14W/827 1SL/40	-
TL5 Essential 14W/830 1SL/40	15,000 hour(s)
TL5 Essential 14W/840 1SL/40	15,000 hour(s)
TL5 Essential 14W/865 1SL/40	15,000 hour(s)
TL5 Essential 21W/827 1SL/40	-
TL5 Essential 21W/830 1SL/40	-
	TL5 Essential 14W/827 1SL/40 TL5 Essential 14W/830 1SL/40 TL5 Essential 14W/840 1SL/40 TL5 Essential 14W/865 1SL/40 TL5 Essential 21W/827 1SL/40

Order Code	Full Product Name	Nominal lifetime
927926484058	TL5 Essential 21W/840 1SL/40	-
927926486558	TL5 Essential 21W/865 1SL/40	-
927926782758	TL5 Essential 28W/827 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

TL5 Essential HE Super 80

			Correlated	Luminous				
			Color	Efficacy				
	Full Product	Color	Temperature	(rated)	Luminous		Full Product	Color
Order Code	Name	Designation	(Nom)	(Nom)	Flux	Order Code	Name	Designa
927925982758	TL5	Incandescent	2700 K	88 lm/W	1,350 lm	927926484058	TL5	Cool Wh
	Essential	White					Essential	(CW)
	14W/827						21W/840	
	1SL/40						1SL/40	
927925983058	TL5	Warm White	3000 K	88 lm/W	1,350 lm	927926486558	TL5	Cool Day
	Essential	(WW)					Essential	
	14W/830						21W/865	
	1SL/40						1SL/40	
927925984058	TL5	Cool White	4000 K	88 lm/W	1,350 lm	927926782758	TL5	Incande
	Essential	(CW)					Essential	White
	14W/840						28W/827	
	1SL/40						1SL/40	
927925986558	TL5	Cool Daylight	6500 K	84 lm/W	1,260 lm	927926783058	TL5	Warm W
	Essential						Essential	(WW)
	14W/865						28W/830	
	1SL/40						1SL/40	
927926482758	TL5	Incandescent	2700 K	94 lm/W	2,100 lm	927926784058	TL5	Cool Wh
	Essential	White					Essential	(CW)
	21W/827						28W/840	
	1SL/40						1SL/40	
927926483058	TL5	Warm White	3000 K	94 lm/W	2,100 lm	927926786558	TL5	Cool Day
	Essential	(WW)					Essential	
	21W/830						28W/865	
	1SL/40						1SL/40	

Order Code	Full Product	Color Designation	Color Temperature (Nom)	Efficacy (rated) (Nom)	Luminous 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
927926782758	TL5 Essential 28W/827 1SL/40	Incandescent White	2700 K	94 lm/W	2,900 lm
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
927925982758	TL5 Essential 14W/827 1SL/40	14.3 W
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
927926482758	TL5 Essential 21W/827 1SL/40	20.8 W
927926483058	TL5 Essential 21W/830 1SL/40	20.8 W

Order Code	Full Product Name	Power Consumption
927926484058	TL5 Essential 21W/840 1SL/40	20.8 W
927926486558	TL5 Essential 21W/865 1SL/40	20.8 W
927926782758	TL5 Essential 28W/827 1SL/40	27.8 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
927925982758	TL5 Essential 14W/827 1SL/40	-
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
927926482758	TL5 Essential 21W/827 1SL/40	-
927926483058	TL5 Essential 21W/830 1SL/40	23 kWh

Order Code	Full Product Name	Energy Consumption kWh/1000 h
927926484058	TL5 Essential 21W/840 1SL/40	-
927926486558	TL5 Essential 21W/865 1SL/40	-
927926782758	TL5 Essential 28W/827 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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