



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
- Max lumen output at 35°C ambient temperature, more suitable to actual lighting situation
- Comfortable working and living ambiances with CRI more than 80
- Provides highly reliable and high quality lighting solution at low cost
- 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

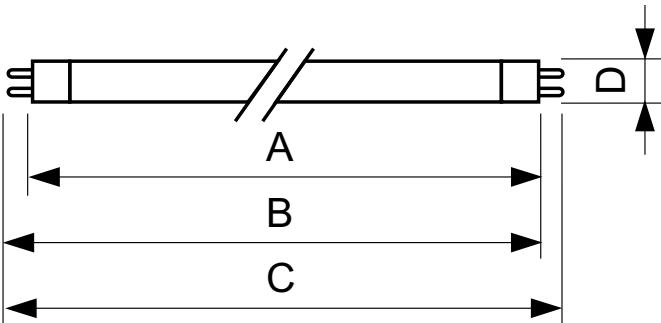
- 20,000 hours lifetime (50% survival point, 3 hour cycle) with preheat ballast which is ENEC compliant. Lifetime performance may differ on non-ENEC compliant ballasts.

TL5 Essential HE Super 80

Versions



Dimensional drawing



Product	D (max)	A (max)	B (max)	B (min)	C (max)
14 W G5 Cool daylight Linear fluorescent tube	17.0 mm	549.0 mm	556.1 mm	553.7 mm	563.2 mm
14 W G5 Cool white Linear fluorescent tube	17.0 mm	549.0 mm	556.1 mm	553.7 mm	563.2 mm
14 W G5 Warm white Linear fluorescent tube	17.0 mm	549.0 mm	556.1 mm	553.7 mm	563.2 mm
28 W G5 Cool daylight Linear fluorescent tube	17.0 mm	1,149.0 mm	1,156.1 mm	1,153.7 mm	1,163.2 mm
28 W G5 Cool white Linear fluorescent tube	17.0 mm	1,149.0 mm	1,156.1 mm	1,153.7 mm	1,163.2 mm
28 W G5 Warm white Linear fluorescent tube	17.0 mm	1,149.0 mm	1,156.1 mm	1,153.7 mm	1,163.2 mm
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/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/840 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 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 1SL/40	17.0 mm	1,149.0 mm	1,156.1 mm	1,153.7 mm	1,163.2 mm
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

Product details



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	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)
927925982758	TL5 Essential 14W/827 1SL/40	-
927925983060	TL5 Essential 14W/830 1SL/40	-
927925984060	TL5 Essential 14W/840 1SL/40	-
927925986560	TL5 Essential 14W/865 1SL/40	-
927926482758	TL5 Essential 21W/827 1SL/40	-
927926483058	TL5 Essential 21W/830 1SL/40	-

Order Code	Full Product Name	Nominal lifetime
927926483060	TL5 Essential 21W/830 1SL/40	-
927926484058	TL5 Essential 21W/840 1SL/40	-
927926484060	TL5 Essential 21W/840 1SL/40	-
927926486558	TL5 Essential 21W/865 1SL/40	-
927926486560	TL5 Essential 21W/865 1SL/40	-
927926782758	TL5 Essential 28W/827 1SL/40	-
927926783060	TL5 Essential 28W/830 1SL/40	-
927926784060	TL5 Essential 28W/840 1SL/40	-
927926786560	TL5 Essential 28W/865 1SL/40	-
927925984058	14 W G5 Cool white Linear fluorescent tube	15,000 hour(s)

Light Technical

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

Order Code	Full Product Name	Color Designation	Correlated Color Temperature (Nom)	Luminous Efficacy (rated) (Nom)	Luminous 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	Cool Daylight	6500 K	84 lm/W	1,260 lm

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Order Code	Full Product Name	Color Designation	Correlated Color Temperature	Luminous Efficacy (rated)	Luminous Flux
			(Nom)	(Nom)	
927925982758	TL5 Essential 14W/827 1SL/40	Incandescent White	2700 K	88 lm/W	1,350 lm
927925983060	TL5 Essential 14W/830 1SL/40	Warm White (WW)	3000 K	88 lm/W	1,350 lm
927925984060	TL5 Essential 14W/840 1SL/40	Cool White (CW)	4000 K	88 lm/W	1,350 lm
927925986560	TL5 Essential 14W/865 1SL/40	Cool Daylight	6500 K	84 lm/W	1,260 lm
927926482758	TL5 Essential 21W/827 1SL/40	Incandescent White	2700 K	94 lm/W	2,100 lm
927926483058	TL5 Essential 21W/830 1SL/40	Warm White (WW)	3000 K	94 lm/W	2,100 lm
927926483060	TL5 Essential 21W/830 1SL/40	Warm White (WW)	3000 K	94 lm/W	2,100 lm
927926484058	TL5 Essential 21W/840 1SL/40	Cool White (CW)	4000 K	94 lm/W	2,100 lm
927926484060	TL5 Essential 21W/840 1SL/40	Cool White (CW)	4000 K	94 lm/W	2,100 lm

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
927925982758	TL5 Essential 14W/827 1SL/40	14.3 W
927925983060	TL5 Essential 14W/830 1SL/40	14.3 W
927925984060	TL5 Essential 14W/840 1SL/40	14.3 W
927925986560	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

Approval and Application

Order Code	Full Product Name	Energy Consumption kWh/1000 h
927926784058	28 W G5 Cool white Linear fluorescent tube	31 kWh

Order Code	Full Product Name	Color Designation	Correlated Color Temperature	Luminous Efficacy (rated)	Luminous Flux
			(Nom)	(Nom)	
927926486558	TL5 Essential 21W/865 1SL/40	Cool Daylight	6500 K	84 lm/W	1,900 lm
927926486560	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
927926783060	TL5 Essential 28W/830 1SL/40	Warm White (WW)	3000 K	94 lm/W	2,900 lm
927926784060	TL5 Essential 28W/840 1SL/40	Cool White (CW)	4000 K	94 lm/W	2,900 lm
927926786560	TL5 Essential 28W/865 1SL/40	Cool Daylight	6500 K	94 lm/W	2,700 lm
927925984058	14 W G5 Cool white Linear fluorescent tube	Cool White (CW)	4000 K	88 lm/W	1,350 lm

Order Code	Full Product Name	Power Consumption
927926483060	TL5 Essential 21W/830 1SL/40	20.8 W
927926484058	TL5 Essential 21W/840 1SL/40	20.8 W
927926484060	TL5 Essential 21W/840 1SL/40	20.8 W
927926486558	TL5 Essential 21W/865 1SL/40	20.8 W
927926486560	TL5 Essential 21W/865 1SL/40	20.8 W
927926782758	TL5 Essential 28W/827 1SL/40	27.8 W
927926783060	TL5 Essential 28W/830 1SL/40	27.8 W
927926784060	TL5 Essential 28W/840 1SL/40	27.8 W
927926786560	TL5 Essential 28W/865 1SL/40	27.8 W
927925984058	14 W G5 Cool white Linear fluorescent tube	14 W

Order Code	Full Product Name	Energy Consumption kWh/1000 h
927926783058	28 W G5 Warm white Linear fluorescent tube	31 kWh

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Order Code	Full Product Name	Energy Consumption kWh/1000 h
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
927925982758	TL5 Essential 14W/827 1SL/40	-
927925983060	TL5 Essential 14W/830 1SL/40	-
927925984060	TL5 Essential 14W/840 1SL/40	15 kWh
927925986560	TL5 Essential 14W/865 1SL/40	15 kWh
927926482758	TL5 Essential 21W/827 1SL/40	-
927926483058	TL5 Essential 21W/830 1SL/40	23 kWh
927926483060	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	-
927926484060	TL5 Essential 21W/840 1SL/40	-
927926486558	TL5 Essential 21W/865 1SL/40	-
927926486560	TL5 Essential 21W/865 1SL/40	-
927926782758	TL5 Essential 28W/827 1SL/40	-
927926783060	TL5 Essential 28W/830 1SL/40	31 kWh
927926784060	TL5 Essential 28W/840 1SL/40	31 kWh
927926786560	TL5 Essential 28W/865 1SL/40	31 kWh
927925984058	14 W G5 Cool white Linear fluorescent tube	15 kWh

