PHILIPS

TL5 Essential HE Super 80

TL5ESHE8



Fit-for-use TL5 lamp

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 ambiences with CRI more than 80
- Provides highly reliable and high quality lighting solution at low cost
- Creates atmospheres from warm white to cool daylight

Applications

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

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
- 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



28 W G5 Cool white Linear fluorescent tube - RFT



14 W G5 Warm white Linear fluorescent tube - RFT



28 W G5 Warm white Linear fluorescent tube - RFT



28 W G5 Cool daylight Linear fluorescent tube - RFT



14 W G5 Cool daylight Linear fluorescent tube - RFT

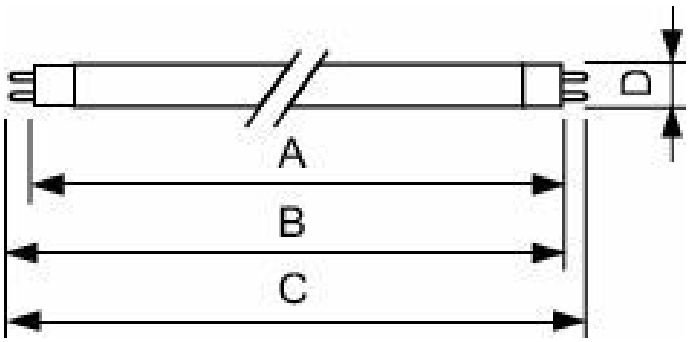


14 W G5 Cool white Linear fluorescent tube - RFT



LPPR TL5ESS8

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/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/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



14 W G5 Cool white Linear fluorescent tube - D1_

General Information

Cap-Base	G5
Nominal lifetime	15,000 hour(s)

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

Light Technical

Order Code	Full Product Name	Luminous Flux	Color Designation	Correlated Color Temperature (Nom)	Luminous Efficacy (rated) (Nom)
927926784058	28 W G5 Cool white Linear fluorescent tube	2,900 lm	Cool White (CW)	4000 K	94 lm/W
927926783058	28 W G5 Warm white Linear fluorescent tube	2,900 lm	Warm White (WW)	3000 K	94 lm/W
927925983058	14 W G5 Warm white Linear fluorescent tube	1,350 lm	Warm White (WW)	3000 K	88 lm/W
927926786558	28 W G5 Cool daylight Linear fluorescent tube	2,700 lm	Cool Daylight	6500 K	94 lm/W
927925986558	14 W G5 Cool daylight Linear fluorescent tube	1,260 lm	Cool Daylight	6500 K	84 lm/W

Order Code	Full Product Name	Luminous Flux	Color Designation	Correlated Color Temperature (Nom)	Luminous Efficacy (rated) (Nom)
927925982758	TL5 Essential 14W/827 1SL/40	1,350 lm	Incandescent White	2700 K	88 lm/W
927925984060	TL5 Essential 14W/840 1SL/40	1,350 lm	Cool White (CW)	4000 K	88 lm/W
927925986560	TL5 Essential 14W/865 1SL/40	1,260 lm	Cool Daylight	6500 K	84 lm/W
927926482758	TL5 Essential 21W/827 1SL/40	2,100 lm	Incandescent White	2700 K	94 lm/W
927926483058	TL5 Essential 21W/830 1SL/40	2,100 lm	Warm White (WW)	3000 K	94 lm/W
927926483060	TL5 Essential 21W/830 1SL/40	2,100 lm	Warm White (WW)	3000 K	94 lm/W
927926484058	TL5 Essential 21W/840 1SL/40	2,100 lm	Cool White (CW)	4000 K	94 lm/W
927926484060	TL5 Essential 21W/840 1SL/40	2,100 lm	Cool White (CW)	4000 K	94 lm/W
927926486558	TL5 Essential 21W/865 1SL/40	1,900 lm	Cool Daylight	6500 K	84 lm/W
927926486560	TL5 Essential 21W/865 1SL/40	1,900 lm	Cool Daylight	6500 K	84 lm/W
927926782758	TL5 Essential 28W/827 1SL/40	2,900 lm	Incandescent White	2700 K	94 lm/W
927926783060	TL5 Essential 28W/830 1SL/40	2,900 lm	Warm White (WW)	3000 K	94 lm/W
927926784060	TL5 Essential 28W/840 1SL/40	2,900 lm	Cool White (CW)	4000 K	94 lm/W
927926786560	TL5 Essential 28W/865 1SL/40	2,700 lm	Cool Daylight	6500 K	94 lm/W
927925984058	14 W G5 Cool white Linear fluorescent tube	1,350 lm	Cool White (CW)	4000 K	88 lm/W

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
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
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

Approval and Application

Order Code	Full Product Name	Energy Consumption 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
927925982758	TL5 Essential 14W/827 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
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

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