

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

Versions



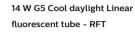


fluorescent tube - RFT

28 W G5 Cool white Linear

14 W G5 Warm white Linear

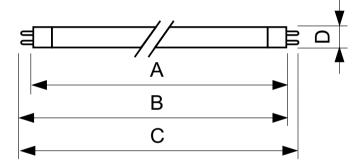






14 W G5 Cool white Linear fluorescent tube - RFT

Dimensional drawing







28 W G5 Warm white Linear fluorescent tube - RFT

28 W G5 Cool daylight Linear fluorescent tube - RFT



Product	D (max)	A (max)	B (max)	B (min)	C (max)
14 W G5 Cool daylight Linear	17.0 mm	549.0 mm	556.1 mm	553.7 mm	563.2 mm
fluorescent tube					
14 W G5 Cool white Linear	17.0 mm	549.0 mm	556.1 mm	553.7 mm	563.2 mm
fluorescent tube					
14 W G5 Warm white Linear	17.0 mm	549.0 mm	556.1 mm	553.7 mm	563.2 mm
fluorescent tube					
28 W G5 Cool daylight Linear	17.0 mm	1,149.0 mm	1,156.1 mm	1,153.7 mm	1,163.2 mm
fluorescent tube					
28 W G5 Cool white Linear	17.0 mm	1,149.0 mm	1,156.1 mm	1,153.7 mm	1,163.2 mm
fluorescent tube					
28 W G5 Warm white Linear	17.0 mm	1,149.0 mm	1,156.1 mm	1,153.7 mm	1,163.2 mm
fluorescent tube					
TL5 Essential 14W/827 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

Product details



14 W G5 Cool white Linear fluorescent tube - D1_

TL5 Essential HE Super 80

General Information	
	65
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	Order Code	Full Product Name	Nominal lifetime
927926784058	28 W G5 Cool white Linear fluorescent tube	15,000 hour(s)	927926482758	TL5 Essential 21W/827 1SL/40	-
927926783058	28 W G5 Warm white Linear fluorescent tube	15,000 hour(s)	927926483058	TL5 Essential 21W/830 1SL/40	-
927925983058	14 W G5 Warm white Linear fluorescent tube	15,000 hour(s)	927926484058	TL5 Essential 21W/840 1SL/40	-
927926786558	28 W G5 Cool daylight Linear fluorescent tube	15,000 hour(s)	927926486558	TL5 Essential 21W/865 1SL/40	-
927925986558	14 W G5 Cool daylight Linear fluorescent tube	15,000 hour(s)	927926782758	TL5 Essential 28W/827 1SL/40	-
927925982758	TL5 Essential 14W/827 1SL/40	-	927925984058	14 W G5 Cool white Linear fluorescent tube	15,000 hour(s)

Light Technical

Order Code	Full Product Name	Color Designation	Color Temperature (Nom)	Efficacy (rated) (Nom)	Luminous Flux	Order Code	Full Product Name	Color Designation	Color Temperature (Nom)	Efficacy (rated) (Nom)	Luminou Flux
927926784058	28 W G5 Cool white Linear fluorescent tube	Cool White (CW)	4000 K	94 lm/W	2,900 lm	927925986558	14 W G5 Cool daylight Linear fluorescent	Cool Daylight	6500 K	84 lm/W	1,260 lm
927926783058	Warm white Linear fluorescent	Warm White (WW)	3000 K	94 lm/W	2,900 lm	927925982758	tube TL5 Essential 14W/827 1SL/40	Incandescent White	2700 K	88 lm/W	1,350 lm
927925983058	tube 14 W G5 Warm white Linear fluorescent tube	Warm White (WW)	3000 K	88 lm/W	1,350 lm	927926482758 927926483058	TL5 Essential 21W/827 1SL/40 TL5 Essential 21W/830	Incandescent White Warm White (WW)	2700 K 3000 K	94 lm/W 94 lm/W	2,100 lm 2,100 lm
927926786558	28 W G5 Cool daylight Linear fluorescent tube	Cool Daylight	6500 K	94 lm/W	2,700 lm	927926484058	1SL/40	Cool White (CW)	4000 K	94 lm/W	2,100 lm

TL5 Essential HE Super 80

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

			Correlated Color	Luminous Efficacy	
	Full Product	Color	Temperature	(rated)	Luminous
Order Code	Name	Designation	(Nom)	(Nom)	Flux
927925984058	14 W G5 Cool	Cool White	4000 K	88 lm/W	1,350 lm
	white Linear	(CW)			
	fluorescent				
	tube				

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

Order Code	Full Product Name	Power Consumption
927926482758	TL5 Essential 21W/827 1SL/40	20.8 W
927926483058	TL5 Essential 21W/830 1SL/40	20.8 W
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
927925984058	14 W G5 Cool white Linear fluorescent tube	14 W

Approval and Application

		Energy Consumption
Order Code	Full Product Name	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	-

		Energy Consumption
Order Code	Full Product Name	kWh/1000 h
927926482758	TL5 Essential 21W/827 1SL/40	-
927926483058	TL5 Essential 21W/830 1SL/40	23 kWh
927926484058	TL5 Essential 21W/840 1SL/40	-
927926486558	TL5 Essential 21W/865 1SL/40	-
927926782758	TL5 Essential 28W/827 1SL/40	-
927925984058	14 W G5 Cool white Linear fluorescent tube	15 kWh



© 2023 Signify Holding All rights reserved. Signify does not give any representation or warranty as to the accuracy or completeness of the information included herein and shall not be liable for any action in reliance thereon. The information presented in this document is not intended as any commercial offer and does not form part of any quotation or contract, unless otherwise agreed by Signify. All trademarks are owned by Signify Holding or their respective owners.

www.lighting.philips.com 2023, August 2 - data subject to change