



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

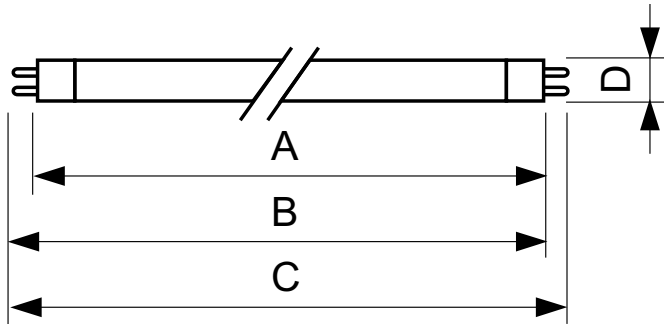
- Suitable for use at locations where need compact, high efficient, energy saving lighting. Including offices, shops, supermarkets, schools, hospitals and industrial lighting.

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

Dimensional drawing



Product	D (max)	A (max)	B (max)	B (min)	C (max)
TL5 Essential 28W/840 1SL/40	17,0 mm	1149,0 mm	1156,1 mm	1153,7 mm	1163,2 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/840 1SL/40	17,0 mm	849,0 mm	856,1 mm	853,7 mm	863,2 mm
TL5 Essential 28W/830 1SL/40	17,0 mm	1149,0 mm	1156,1 mm	1153,7 mm	1163,2 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/830 1SL/40	17,0 mm	549,0 mm	556,1 mm	553,7 mm	563,2 mm
TL5 Essential 28W/865 1SL/40	17,0 mm	1149,0 mm	1156,1 mm	1153,7 mm	1163,2 mm
TL5 Essential 21W/865 1SL/40	17,0 mm	849,0 mm	856,1 mm	853,7 mm	863,2 mm

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Penyetujuan dan Aplikasi

Kandungan Merkuri (Hg) (Nom)	2,0 mg
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Kontrol dan Peredupan

Dapat diredupkan	salah
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Pengoperasian dan Kelistrikan

Arus Lampu (Nom)	0,170 A
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Informasi Umum

Tutup-Dasar	G5
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Masa Pakai Hingga 50 % Kegagalan Pemanasan (Nom)	20000 h
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Nilai Pemanasan LSF 16000 jam	70 %
Nilai Pemanasan LSF 20000 jam	50 %
Nilai Pemanasan LSF 2000 jam	98 %
Nilai Pemanasan LSF 4000 jam	97 %
Nilai Pemanasan LSF 6000 jam	95 %
Nilai Pemanasan LSF 8000 jam	93 %

Teknis Lampu

Indeks Renderasi Warna (Maks)	85
Indeks Renderasi Warna (Min)	80
Indeks Renderasi Warna (Nom)	82
Nilai LLMF 12000 jam	88 %
Nilai LLMF 16000 jam	87 %
Nilai LLMF 2000 jam	94 %
Nilai LLMF 20000 jam	86 %
Nilai LLMF 4000 jam	92 %
Nilai LLMF 6000 jam	91 %
Nilai LLMF 8000 jam	90 %

Mekanis dan Housing

Bentuk Bohlam	T5
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Suhu

Desain Suhu (Nom)	30 °C
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Penyetujuan dan Aplikasi

Order Code	Full Product Name	Penggunaan Energi kWh/1000 h	Label Efisiensi Energi (EEL)
927925983058	TL5 Essential 14W/830 1SL/40	-	A
927925984058	TL5 Essential 14W/840 1SL/40	15 kWh	A
927925986558	TL5 Essential 14W/865 1SL/40	15 kWh	A
927926483058	TL5 Essential 21W/830 1SL/40	23 kWh	A
927926484058	TL5 Essential 21W/840 1SL/40	-	A
927926486558	TL5 Essential 21W/865 1SL/40	-	A
927926783058	TL5 Essential 28W/830 1SL/40	31 kWh	A
927926784058	TL5 Essential 28W/840 1SL/40	31 kWh	A+
927926786558	TL5 Essential 28W/865 1SL/40	31 kWh	A

Pengoperasian dan Kelistrikan

Order Code	Full Product Name	Daya (Terukur) (Nom)
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
927926483058	TL5 Essential 21W/830 1SL/40	20,8 W
927926484058	TL5 Essential 21W/840 1SL/40	20,8 W

Order Code	Full Product Name	Daya (Terukur) (Nom)
927926486558	TL5 Essential 21W/865 1SL/40	20,8 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

Teknis Lampu (1/2)

TL5 Essential HE Super 80

Order Code	Full Product Name	Kode Warna	Penandaan Warna	Suhu Warna (Nom)	Daya
					Penerangan (di Lumen Maks, Terukur) (Nom)
927925983058	TL5 Essential 14W/830 1SL/40	830	putih hangat (WW)	3000 K	96 lm/W
927925984058	TL5 Essential 14W/840 1SL/40	840	putih dingin (CW)	4000 K	96 lm/W
927925986558	TL5 Essential 14W/865 1SL/40	865	Cool Daylight	6500 K	90 lm/W
927926483058	TL5 Essential 21W/830 1SL/40	830	putih hangat (WW)	3000 K	101 lm/W
927926484058	TL5 Essential 21W/840 1SL/40	840	putih dingin (CW)	4000 K	101 lm/W

Order Code	Full Product Name	Kode Warna	Penandaan Warna	Suhu Warna (Nom)	Daya
					Penerangan (di Lumen Maks, Terukur) (Nom)
927926486558	TL5 Essential 21W/865 1SL/40	865	Cool Daylight	6500 K	92 lm/W
927926783058	TL5 Essential 28W/830 1SL/40	830	putih hangat (WW)	3000 K	104 lm/W
927926784058	TL5 Essential 28W/840 1SL/40	840	putih dingin (CW)	4000 K	104 lm/W
927926786558	TL5 Essential 28W/865 1SL/40	865	Cool Daylight	6500 K	97 lm/W

Teknis Lampu (2/2)

Order Code	Full Product Name	Daya Penerangan (nilai) (Nom)	Fluks	Fluks Cahaya
			Cahaya (Nom)	(Terukur) (Nom)
927925983058	TL5 Essential 14W/830 1SL/40	88 lm/W	1350 lm	1260 lm
927925984058	TL5 Essential 14W/840 1SL/40	88 lm/W	1350 lm	1260 lm
927925986558	TL5 Essential 14W/865 1SL/40	84 lm/W	1260 lm	1200 lm
927926483058	TL5 Essential 21W/830 1SL/40	94 lm/W	2100 lm	1950 lm
927926484058	TL5 Essential 21W/840 1SL/40	94 lm/W	2100 lm	1950 lm

Order Code	Full Product Name	Daya Penerangan (nilai) (Nom)	Fluks	Fluks Cahaya
			Cahaya (Nom)	(Terukur) (Nom)
927926486558	TL5 Essential 21W/865 1SL/40	84 lm/W	1900 lm	1750 lm
927926783058	TL5 Essential 28W/830 1SL/40	94 lm/W	2900 lm	2600 lm
927926784058	TL5 Essential 28W/840 1SL/40	94 lm/W	2900 lm	2600 lm
927926786558	TL5 Essential 28W/865 1SL/40	94 lm/W	2700 lm	2600 lm

