



# Essential LEDtube - Affordable LED solution

## Essential LEDtube

Essential LEDtube is an affordable LED tube that is suitable for replacing T8 fluorescent lamps. The product provides a natural lighting effect for use in general lighting applications, as well as instant energy savings – an environmentally friendly solution.

### Benefits

- Reduced electricity costs thanks to significant energy savings
- Longer lifetime minimizes re-lamping for reduced maintenance costs
- A better choice for the environment – no mercury

### Features

- Affordable LED replacement for T8 fluorescent lamps
- Energy consumption less than half that of normal fluorescent lamps
- 25,000 hours lifetime, double that of normal fluorescent lamps
- No mercury; glass-free tube – no breakage concerns

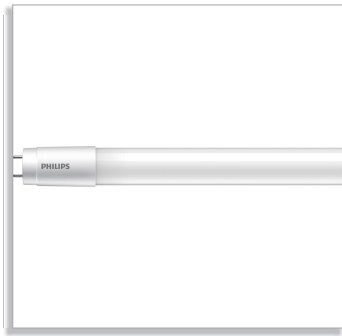
### Application

- Retail, offices
- Industry, warehouses, public places, schools, hospitals, car parks

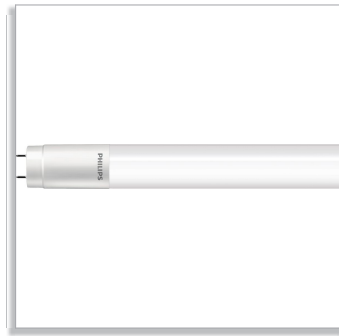


# PHILIPS

Related products

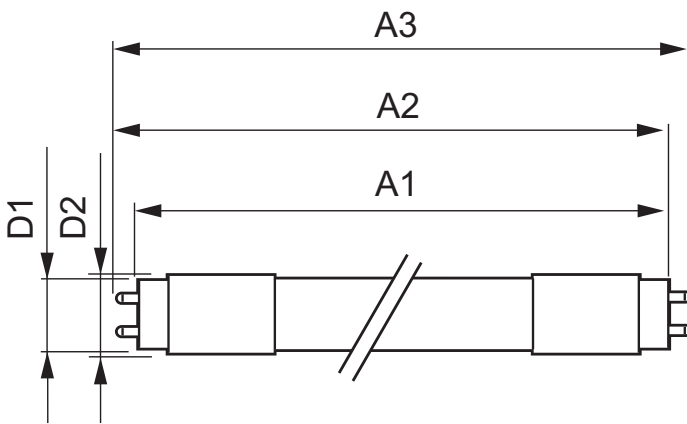


TLED 600 mm 9 W, 1200 mm 18 W T8 AP I



LEDtube 600 mm 9 W C, 1200 mm 18 W C

Dimensional drawing



ESSENTIAL LEDtube 1200mm 20W840 T8 AP I

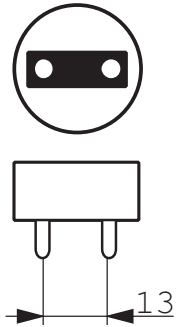
Product	A1 (Norm)	A2 (Norm)	A3 (Norm)	D1 (Norm)	D2 (Norm)
TLED 1200mm 18W840 C	1198.0	1205.0	1212.0	25.68	28
TLED 1200mm 18W865 C	1198.0	1205.0	1212.0	25.68	28
TLED 600mm 9W840 C	588.5	595.5	602.5	25.68	28
TLED 600mm 9W865 C	588.5	595.5	602.5	25.68	28
TLED 600mm 9W840 T8 AP I	588.5	595.5	602.5	25.68	28
TLED 600mm 9W865 T8 AP I	588.5	595.5	602.5	25.68	28
TLED 1200mm 18W840 T8 AP I	1198.0	1205.0	1212.0	25.68	28
TLED 1200mm 18W865 T8 AP I	1198.0	1205.0	1212.0	25.68	28

General Characteristics

Order code	Full product name	Cap-Base	Rated Life-time (hours)
929001128008	ESSENTIAL LEDtube 600mm 9W840 T8 AP I	G13	30000 hr
929001128108	ESSENTIAL LEDtube 600mm 9W865 T8 AP I	G13	30000 hr
929001128208	ESSENTIAL LEDtube 1200mm 18W840 T8 AP I	G13	30000 hr
929001128308	ESSENTIAL LEDtube 1200mm 18W865 T8 AP I	G13	30000 hr
929000296608	ESSENTIAL LEDtube 1200mm 20W840 T8 AP I	G13	30000 hr
929000296708	ESSENTIAL LEDtube 1200mm 20W865 T8 AP I	G13	30000 hr

Order code	Full product name	Cap-Base	Rated Life-time (hours)
929000296808	ESSENTIAL LEDtube 600mm 10W840 T8 AP I	G13	30000 hr
929000296908	ESSENTIAL LEDtube 600mm 10W865 T8 AP I	G13	30000 hr

## Installation diagrams

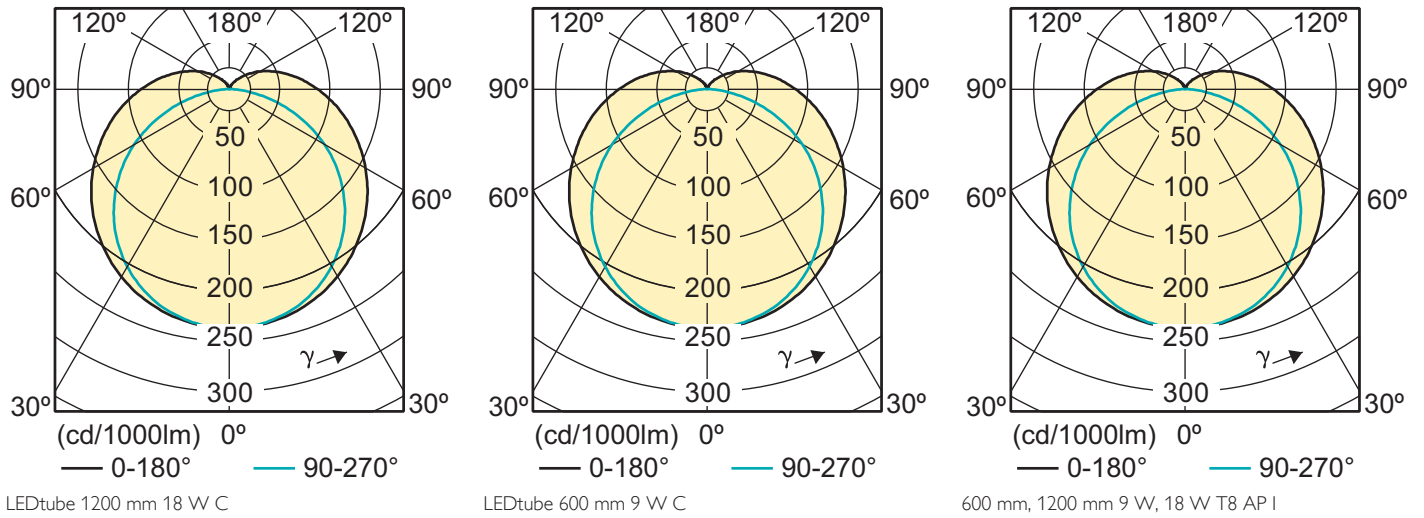


G13

## Light Technical Characteristics

Order code	Full product name	Color Code	Beam Angle	Luminous Flux	Luminous Intensity	Color rendering index	Rated Luminous Flux	LLMF - end nominal life-time	Rated Beam Angle
929001128008	ESSENTIAL LEDtube 600mm 9W840 T8 AP I	840	150 D	800 Lm	cd	80	800 Lm	70 %	150 D
929001128108	ESSENTIAL LEDtube 600mm 9W865 T8 AP I	865	150 D	800 Lm	cd	80	800 Lm	70 %	150 D
929001128208	ESSENTIAL LEDtube 1200mm 18W840 T8 AP I	840	150 D	1600 Lm	cd	80	1600 Lm	70 %	150 D
929001128308	ESSENTIAL LEDtube 1200mm 18W865 T8 AP I	865	150 D	1600 Lm	cd	80	1600 Lm	70 %	150 D
929000296608	ESSENTIAL LEDtube 1200mm 20W840 T8 AP I	840	150 D	1600 Lm	cd	80	1600 Lm	70 %	150 D
929000296708	ESSENTIAL LEDtube 1200mm 20W865 T8 AP I	865	150 D	1600 Lm	cd	80	1600 Lm	70 %	150 D
929000296808	ESSENTIAL LEDtube 600mm 10W840 T8 AP I	840	150 D	800 Lm	cd	80	800 Lm	70 %	150 D
929000296908	ESSENTIAL LEDtube 600mm 10W865 T8 AP I	865	150 D	-	cd	80	800 Lm	70 %	150 D

Light technical



Electrical Characteristics

Order code	Full product name	Wattage	Voltage	Line Frequency	Dimmable	Rated Wattage	Starting Time
929001128008	ESSENTIAL LEDtube 600mm 9W840 T8 AP I	9 W	220-240 V	50/60 Hz	No	9.0 W	0.5 (max) s
929001128108	ESSENTIAL LEDtube 600mm 9W865 T8 AP I	9 W	220-240 V	50/60 Hz	No	9.0 W	0.5 (max) s
929001128208	ESSENTIAL LEDtube 1200mm 18W840 T8 AP I	18 W	220-240 V	50/60 Hz	No	18.0 W	0.5 (max) s
929001128308	ESSENTIAL LEDtube 1200mm 18W865 T8 AP I	18 W	220-240 V	50/60 Hz	No	18.0 W	0.5 (max) s
929000296608	ESSENTIAL LEDtube 1200mm 20W840 T8 AP I	18 W	220-240 V	50/60 Hz	No	18.0 W	0.5 (max) s
929000296708	ESSENTIAL LEDtube 1200mm 20W865 T8 AP I	18 W	220-240 V	50/60 Hz	No	18.0 W	0.5 (max) s
929000296808	ESSENTIAL LEDtube 600mm 10W840 T8 AP I	9 W	220-240 V	50/60 Hz	No	9.0 W	0.5 (max) s
929000296908	ESSENTIAL LEDtube 600mm 10W865 T8 AP I	9 W	220-240 V	50/60 Hz	No	9.0 W	0.5 (max) s

Temperature Characteristics

Order code	Full product name	T-case maximum	Operating temperature	T-Storage
929001128008	ESSENTIAL LEDtube 600mm 9W840 T8 AP I	53 (max) C	-20 (min), 45 (max) C	-40 (min), 65 (max) C
929001128108	ESSENTIAL LEDtube 600mm 9W865 T8 AP I	53 (max) C	-20 (min), 45 (max) C	-40 (min), 65 (max) C
929001128208	ESSENTIAL LEDtube 1200mm 18W840 T8 AP I	53 (max) C	-20 (min), 45 (max) C	-40 (min), 65 (max) C
929001128308	ESSENTIAL LEDtube 1200mm 18W865 T8 AP I	53 (max) C	-20 (min), 45 (max) C	-40 (min), 65 (max) C
929000296608	ESSENTIAL LEDtube 1200mm 20W840 T8 AP I	53 (max) C	-20 (min), 45 (max) C	-40 (min), 65 (max) C
929000296708	ESSENTIAL LEDtube 1200mm 20W865 T8 AP I	53 (max) C	-20 (min), 45 (max) C	-40 (min), 65 (max) C
929000296808	ESSENTIAL LEDtube 600mm 10W840 T8 AP I	55 (max) C	-20 (min), 45 (max) C	-40 (min), 65 (max) C

Order code	Full product name	T-case maximum	Operating temperature	T-Storage
929000296908	ESSENTIAL LEDtube 600mm 10W865 T8 AP I	53 (max) C	-20 (min), 35 (max) C	-40 (min), 65 (max) C

Environmental characteristics

Order code	Full product name	Energy Efficiency Label (EEL)	Energy consumption kWh/1000h
929001128008	ESSENTIAL LEDtube 600mm 9W840 T8 AP I	A+	9 kWh
929001128108	ESSENTIAL LEDtube 600mm 9W865 T8 AP I	A+	9 kWh
929001128208	ESSENTIAL LEDtube 1200mm 18W840 T8 AP I	A+	18 kWh
929001128308	ESSENTIAL LEDtube 1200mm 18W865 T8 AP I	A+	18 kWh

## Measuring Conditions

Order code	Full product name	Energy Efficiency Label (EEL)	Energy consumption kWh/1000h
929000296608	ESSENTIAL LEDtube 1200mm 20W840 T8 AP I	A+	18 kWh
929000296708	ESSENTIAL LEDtube 1200mm 20W865 T8 AP I	A+	18 kWh
929000296808	ESSENTIAL LEDtube 600mm 10W840 T8 AP I	A+	9 kWh
929000296908	ESSENTIAL LEDtube 600mm 10W865 T8 AP I	A+	9 kWh

Order code	Full product name	Switching cycle
929001128008	ESSENTIAL LEDtube 600mm 9W840 T8 AP I	50000X
929001128108	ESSENTIAL LEDtube 600mm 9W865 T8 AP I	50000X
929001128208	ESSENTIAL LEDtube 1200mm 18W840 T8 AP I	50000X
929001128308	ESSENTIAL LEDtube 1200mm 18W865 T8 AP I	50000X
929000296608	ESSENTIAL LEDtube 1200mm 20W840 T8 AP I	50000X
929000296708	ESSENTIAL LEDtube 1200mm 20W865 T8 AP I	50000X
929000296808	ESSENTIAL LEDtube 600mm 10W840 T8 AP I	50000X
929000296908	ESSENTIAL LEDtube 600mm 10W865 T8 AP I	50000X



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2015, July 29  
data subject to change