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

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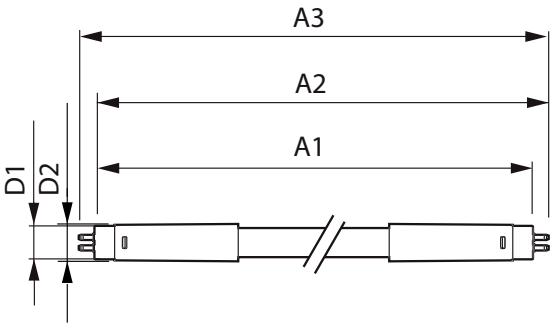
Essential LEDtube

Application

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

Versions

ESSENTIAL LEDtube 8-16W G5 830-865 APR

Dimensional drawing

Product	D1	D2	A1	A2	A3
CorePro LEDtube 1200mm 16W830 G5 I APR	15.8 mm	19 mm	1,149 mm	1,156.1 mm	1,163.2 mm
CorePro LEDtube 1200mm 16W840 G5 I APR	15.8 mm	19 mm	1,149 mm	1,156.1 mm	1,163.2 mm
CorePro LEDtube 1200mm 16W865 G5 I APR	15.8 mm	19 mm	1,149 mm	1,156.1 mm	1,163.2 mm
CorePro LEDtube 600mm 8W830 G5 I APR	15.8 mm	19 mm	549 mm	556.1 mm	563.2 mm
CorePro LEDtube 600mm 8W840 G5 I APR	15.8 mm	19 mm	549 mm	556.1 mm	563.2 mm
CorePro LEDtube 600mm 8W865 G5 I APR	15.8 mm	19 mm	549 mm	556.1 mm	563.2 mm

Essential LEDtube

General Information

Cap–Base	G5
Switching Cycle	50,000
Nominal lifetime	30,000 hour(s)

Light Technical

Beam Angle (Nom)	200 degree(s)
Color rendering index (CRI)	80
LLMF At End Of Nominal Lifetime (Nom)	70 %

Operating and Electrical

Input Frequency	50 to 60 Hz
Line Frequency	50 to 60 Hz
Starting Time (Nom)	0.5 s

Temperature

T–Case Maximum (Nom)	70 ℃

Controls and Dimming

Dimmable	No

Mechanical and Housing

Bulb Shape	T5

Approval and Application

Ambient temperature range	–20 ℃ to 45 ℃

Light Technical

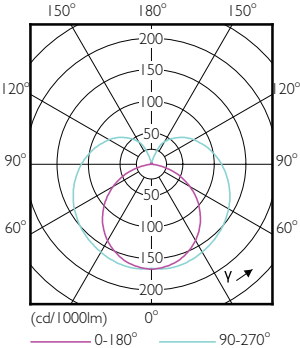| Order Code	Full Product Name	Correlated Color Temperature (Nom)	Color Code	Luminous Flux
929001380608	CorePro LEDtube 600mm 8W830 G5 I APR	3000 K	830	1,000 lm
929001380708	CorePro LEDtube 600mm 8W840 G5 I APR	4000 K	840	1,050 lm
929001380808	CorePro LEDtube 600mm 8W865 G5 I APR	6500 K	865	1,050 lm
929001380908	CorePro LEDtube 1200mm 16W830 G5 I APR	3000 K	830	2,000 lm
929001381008	CorePro LEDtube 1200mm 16W840 G5 I APR	4000 K	840	2,100 lm
929001381108	CorePro LEDtube 1200mm 16W865 G5 I APR	6500 K	865	2,100 lm

Operating and Electrical

Order Code	Full Product Name	Power Consumption
929001380608	CorePro LEDtube 600mm 8W830 G5 I APR	8 W
929001380708	CorePro LEDtube 600mm 8W840 G5 I APR	8 W
929001380808	CorePro LEDtube 600mm 8W865 G5 I APR	8 W

Order Code	Full Product Name	Power Consumption
929001380908	CorePro LEDtube 1200mm 16W830 G5 I APR	16 W
929001381008	CorePro LEDtube 1200mm 16W840 G5 I APR	16 W
929001381108	CorePro LEDtube 1200mm 16W865 G5 I APR	16 W

Approval and Application

Order Code	Full Product Name	Energy Consumption kWh/1000 h
929001380608	CorePro LEDtube 600mm 8W830 G5 I APR	8 kWh
929001380708	CorePro LEDtube 600mm 8W840 G5 I APR	8 kWh
929001380808	CorePro LEDtube 600mm 8W865 G5 I APR	8 kWh
929001380908	CorePro LEDtube 1200mm 16W830 G5 I APR	16 kWh
929001381008	CorePro LEDtube 1200mm 16W840 G5 I APR	16 kWh
929001381108	CorePro LEDtube 1200mm 16W865 G5 I APR	16 kWh

(cd/1000lm)
— 0-180° — 90-270°

Essential LEDtube

150° 180° 150°
200
150
100
120° 50 120°
90° 90°
50
60° 100 60°
150
200
V
(cd/1000lm)   0°
——— 0-180°   ——— 90-270°

150° 180° 150°
100
75
120° 50 120°
25
90° 90°
25
60° 50 60°
75
100
V
(cd/1000lm)   0°
——— 0-180°   ——— 90-270°

150° 180° 150°
100
75
120° 50 120°
25
90° 90°
25
60° 50 60°
75
100
V
(cd/1000lm)   0°
——— 0-180°   ——— 90-270°

www.lighting.philips.com

2023, August 2 – data subject to change