PHILIPS

Lighting



CorePro LEDtube EM/ Mains T8



CorePro LEDtube 600mm 8W 830 T8

Philips CorePro LEDtubes are the quick and easy way to replace T8 fluorescent or other LED tubes with a fast pack back time. Not only does the Core range of LEDtubes require a low initial investment, but LED energy efficiency also delivers instant savings that you can bank on over a long and reliable lifetime. Plus, with the same lamp size and light distribution as fluorescent alternatives, you'll never know the difference. There are two ways to install these LED tubes: Rewire your existing fluorescent-based luminaires so the CorePro LEDtubes work directly on the Mains. Or simply change the fluorescent starter to an LED starter that can be used with your Electromagnetic ballasts.

Warnings and Safety

- NOTE: The overall energy efficiency and light distribution of any installation that uses these lamps will be determined by the design of the installation.
- Installation must be done according to the installation diagrams provided with the lamp or available online. Installation must be done by a certified professional.

Product data

General Information	
Cap-Base	G13 [Medium Bi-Pin Fluorescent]
Nominal lifetime	50,000 hour(s)
Switching Cycle	200,000
Lighting Technology	LED
Flux measurement reference	Sphere
EU RoHS compliant	Yes

Light Technical	
Color Code	830 [CCT of 3000K]
Beam Angle (Nom)	240 degree(s)
Luminous Flux	750 lm
Color Designation	White (WH)
Correlated Color Temperature (Nom)	3000 K
Luminous Efficacy (rated) (Nom)	93 lm/W
Color Consistency	<6
Color rendering index (CRI)	80
LLMF At End Of Nominal Lifetime (Nom)	70 %
Flickering value (PstLM)	1
Stroboscopic effect value (SVM)	0.9

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Photobiological safety according to EN 62471	RG0

Operating and Electrical

Line Frequency	50 to 60 Hz
Input Frequency	50 to 60 Hz
Power Consumption	8 W
Lamp Current (Nom)	46 mA
Starting Time (Nom)	0.5 s
Warm-up time to 60% light	0.5 s
Power Factor (Fraction)	0.9
Voltage (Nom)	220-240 V
LED alternative to fluorescent lamp power	18 W

Temperature

Ambient temperature range	-20 °C to 45 °C
T-Case Maximum (Nom)	50 °C

Controls and Dimming

Dimmable	No

Mechanical and Housing

Bulb Finish	Frosted
Bulb Material	Glass
Product Length	600 mm
Bulb Shape	T8

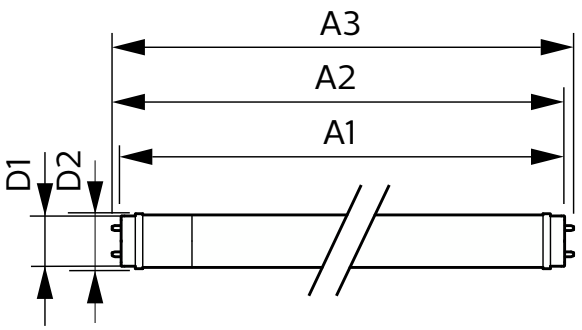
Approval and Application

Energy Efficiency Class	F
Energy Saving Product	Yes
Approval Marks	RoHS compliance CE marking KEMA Keur certificate
Energy Consumption kWh/1000 h	8 kWh
EPREL Registration Number	1384735

Product Data

Order product name	CorePro LEDtube 600mm 8W 830 T8
Full product name	CorePro LEDtube 600mm 8W 830 T8
Full product code	871951448638600
Order code	929003577132
Material Nr. (12NC)	929003577132
Numerator - Quantity Per Pack	1
EAN/UPC - Product/Case	8719514486386
Numerator - Packs per outer box	20
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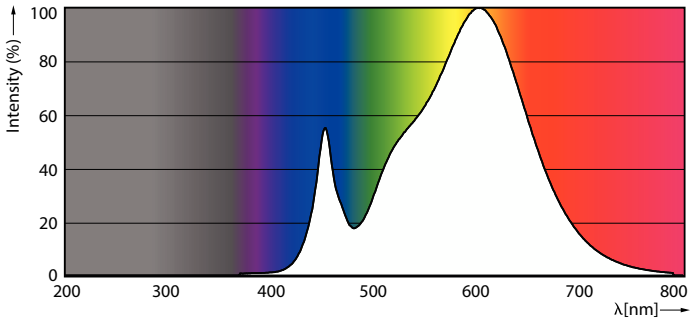
Dimensional drawing



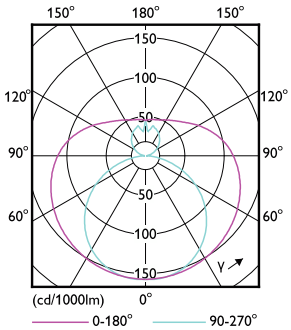
Product	D1	D2	A1	A2	A3
CorePro LEDtube 600mm 8W 830 T8	25.7 mm	28 mm	588.5 mm	595.5 mm	602.5 mm

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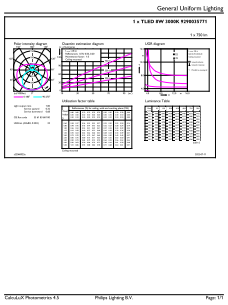
Photometric data



Spectral Power Distribution Colour

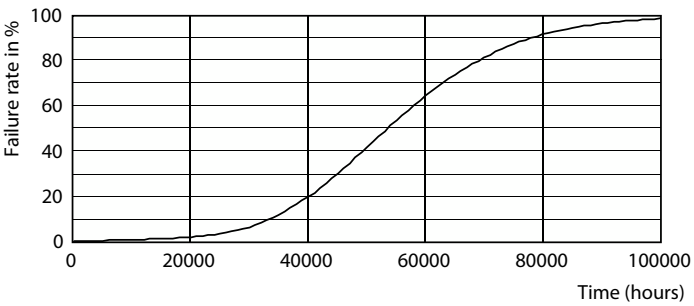


Light Distribution Diagram - CorePro LEDtube 600mm 8W 830 T8

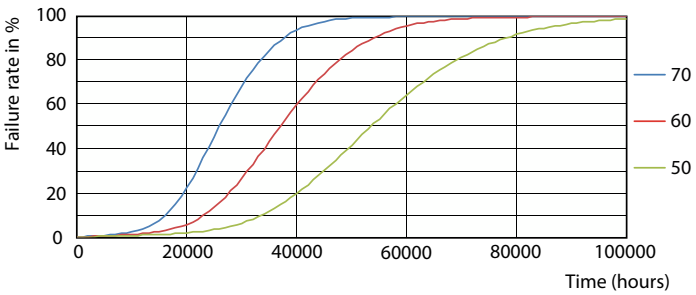


General uniform lighting - CorePro LEDtube 600mm 8W 830 T8

Lifetime



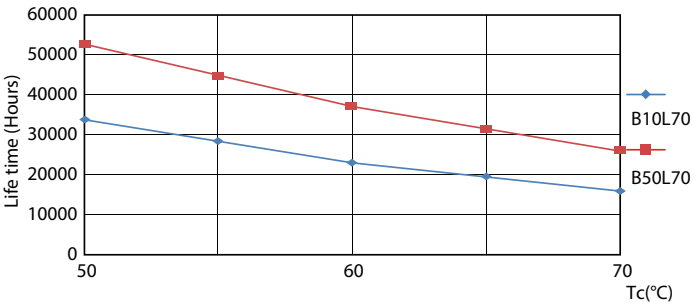
Life Expectancy Diagram - CorePro LEDtube 600mm 8W 830 T8

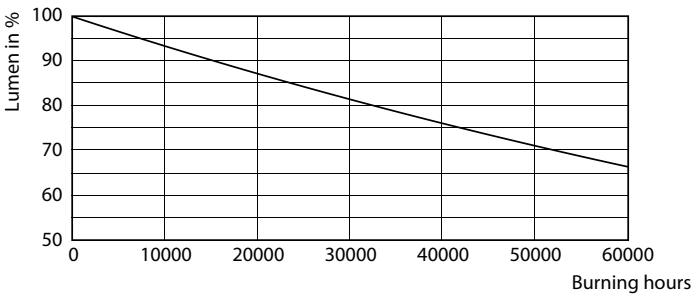


Life Expectancy Diagram - CorePro LEDtube 600mm 8W 830 T8

CorePro LEDtube EM/Mains T8

Lifetime





Life Expectancy Diagram - CorePro LEDtube 600mm 8W 830 T8

Lumen Maintenance Diagram - CorePro LEDtube 600mm 8W 830 T8

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