PHILIPS

Lighting



CorePro LEDtube EM/ Mains T8



CorePro LEDtube 1200mm UO 21.5W 840 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]
EU RoHS compliant	Yes
Nominal Lifetime (Nom)	30000 h
Switching Cycle	200000X
Flux measurement reference	Sphere

Light technical	
Color Code	840 [CCT of 4000K]
Beam Angle (Nom)	240 °

Luminous Flux (Nom)	2400 lm
Color Designation	Cool White (CW)
Correlated Color Temperature (Nom)	4000 K
Luminous Efficacy (rated) (Nom)	111 lm/W
Color Consistency	<6
Color Rendering Index (Nom)	80
LLMF At End Of Nominal Lifetime (Nom)	70 %

Operating and electrical	
Input Frequency	50 to 60 Hz

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Power (Nom)	21.5 W
Lamp Current (Max)	105 mA
Lamp Current (Min)	105 mA
Starting Time (Nom)	0.5 s
Warm Up Time to 60% Light (Nom)	0.5 s
Power Factor (Nom)	0.9
Voltage (Nom)	220-240 V

Temperature

T-Ambient (Max)	45 °C
T-Ambient (Min)	-20 °C
T-Storage (Max)	65 °C
T-Storage (Min)	-40 °C
T-Case Maximum (Nom)	53 °C

Controls and dimming

Dimmable	No

Mechanical and housing

Bulb Finish	Frosted
Bulb Material	Glass
Product Length	1200 mm
Bulb Shape	Tube, double-ended

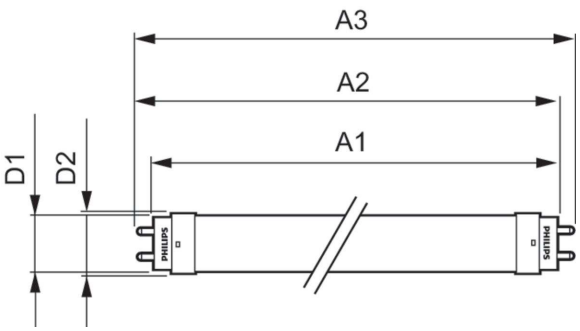
Approval and application

Energy Efficiency Class	E
Energy Saving Product	Yes
Approval Marks	RoHS compliance CE marking KEMA Keur certificate
Energy Consumption kWh/1000 h	22 kWh
EPREL Registration Number	1037551

Product data

Full product code	871951441897400
Order product name	CorePro LEDtube 1200mm UO 21.5W 840 T8
EAN/UPC - Product	8719514418974
Order code	41897400
Local order code	CPLTB12U21.5W84
Numerator - Quantity Per Pack	1
Numerator - Packs per outer box	20
Material Nr. (12NC)	929003154202
Net Weight (Piece)	0.215 kg

Dimensional drawing



CorePro LEDtube 1200mm UO 21.5W 840 T8

Product	D1	D2	A1	A2	A3
CorePro LEDtube 1200mm UO 21.5W 840 T8	25.7 mm	28 mm	1198 mm	1205 mm	1212 mm

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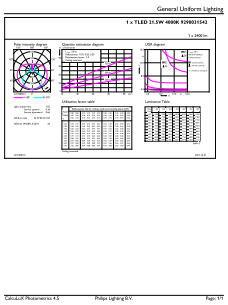
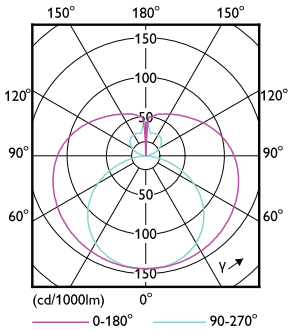
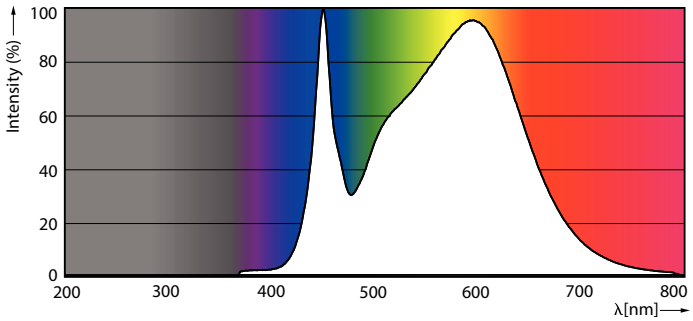
Photometric data



General uniform lighting

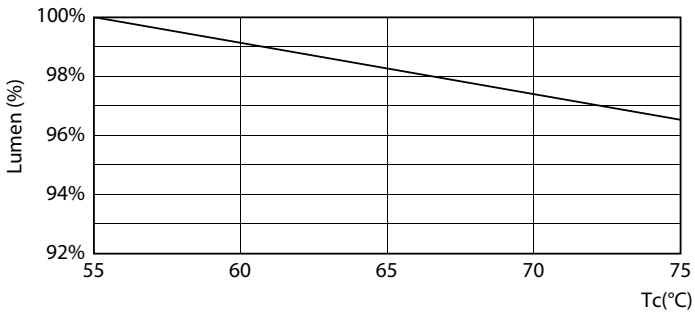


Light Distribution Diagram

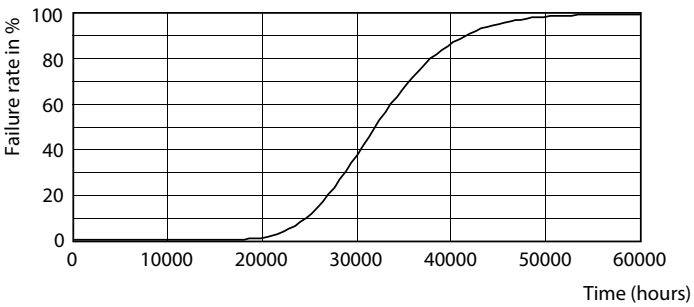


Spectral Power Distribution Colour

Lifetime



LEDtube COR EU 21,5W 30K LumenVsTc-LMP



Life Expectancy Diagram

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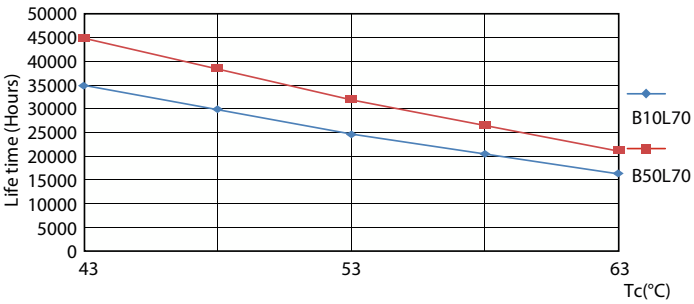
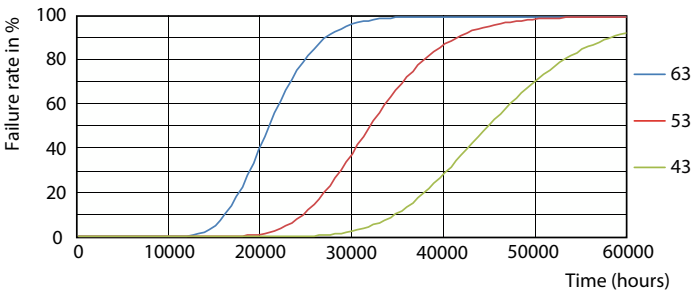
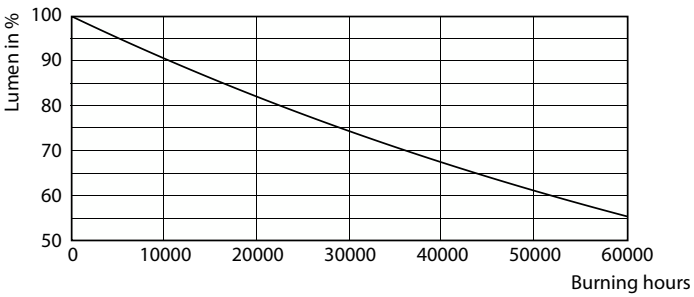
Lifetime



LEDtube 30K 4363 LifetimeVsTc-LED



LEDtube 30K 4363 FailureRate-LED



Lumen Maintenance Diagram

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