PHILI

Lighting

PHILIPS

CorePro LEDtube EM/ Mains T8



CorePro LEDtube 1200mm HO 18W 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

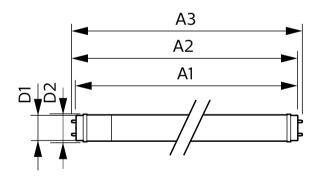
General Information		Light Technical	
Cap-Base	G13 [Medium Bi-Pin Fluorescent]	Color Code	840 [CCT of 4000K]
Nominal lifetime	50,000 hour(s)	Beam Angle (Nom)	240 degree(s)
Switching Cycle	200,000	Luminous Flux	2,000 lm
Lighting Technology	LED	Color Designation	Cool White (CW)
Flux measurement reference	Sphere	Correlated Color Temperature (Nom)	4000 K
CE mark	Yes	Luminous Efficacy (rated) (Nom)	111 lm/W
EU RoHS compliant	Yes	Color Consistency	<6
		Color rendering index (CRI)	80
		LLMF At End Of Nominal Lifetime (Nom)	70 %

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Flickering value (PstLM) - Flickering value as	1	Bulb Material
per EN 61000-3-3		Product Length
Stroboscopic effect visibility measure (SVM)	0.9	Bulb Shape
Photobiological safety according to EN 62471	RGO	
		Approval and Ap
Operating and Electrical		Energy Efficiency C
Line Frequency	50 to 60 Hz	Energy Saving Pro
Input Frequency	50 to 60 Hz	Approval Marks
Power Consumption	18 W	
Lamp Current (Nom)	90 mA	Energy Consumption
Starting Time (Nom)	0.5 s	EPREL Registration
Warm-up time to 60% light	0.5 s	
Power Factor (Fraction)	0.9	Product Data
Voltage (Nom)	220-240 V	Order product nam
LED alternative to fluorescent lamp power	36 W	
Ballast Compatibility	EM/Mains	Full product name
Temperature		Full product code
Ambient temperature range	-20 °C to 45 °C	Order code
T-Case Maximum (Nom)	60 °C	Material Nr. (12NC)
		Numerator - Quant
Controls and Dimming		EAN/UPC - Produc
Dimmable	No	Numerator - Packs
		EAN/UPC - Case
Mechanical and Housing		
Bulb Finish	Frosted	

Bulb Material	Glass
Product Length	1,200 mm
Bulb Shape	Т8
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	18 kWh
EPREL Registration Number	1384712
Product Data	
Order product name	CorePro LEDtube 1200mm HO 18W 840
	Т8
Full product name	CorePro LEDtube 1200mm HO 18W 840
	Т8
Full product code	871869680613500
Order code	929001874902
Material Nr. (12NC)	929001874902
Numerator - Quantity Per Pack	1
EAN/UPC - Product/Case	8718696806135
Numerator - Packs per outer box	10
EAN/UPC - Case	8718696806142

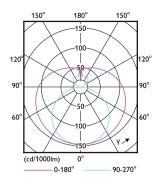
Dimensional drawing



Product	D1	D2	A1	A2	A3
CorePro LEDtube 1200mm HO 18W	25.7 mm	28 mm	1,198 mm	1,205 mm	1,212 mm
840 T8					

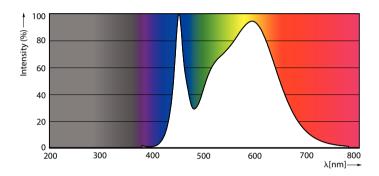
CorePro LEDtube EM/Mains T8

Photometric data



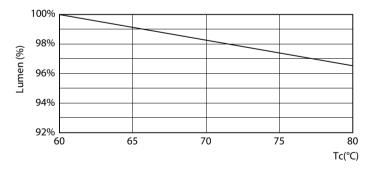
		* TLED 16W 4006K 9290618749
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	Values for utility of the second seco	
Martin Martin Martin		

Light Distribution Diagram - CorePro LEDtube 1200mm HO 18W 840 T8



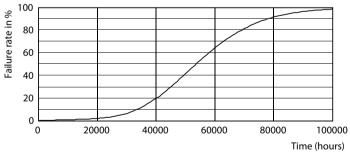
Spectral Power Distribution Colour - CorePro LEDtube 1200mm HO 18W 840 T8

Lifetime



Lumen Maintenance Diagram - CorePro LEDtube 1200mm HO 18W 840 T8

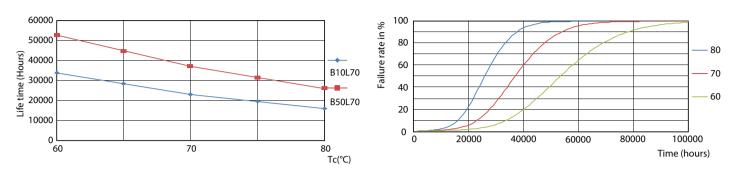
General uniform lighting - CorePro LEDtube 1200mm HO 18W 840 T8



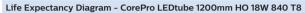
Life Expectancy Diagram - CorePro LEDtube 1200mm HO 18W 840 T8

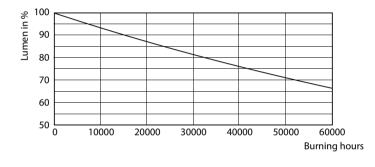
CorePro LEDtube EM/Mains T8

Lifetime



Life Expectancy Diagram - CorePro LEDtube 1200mm HO 18W 840 T8





Lumen Maintenance Diagram - CorePro LEDtube 1200mm HO 18W 840 T8



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www.lighting.philips.com 2024, March 15 - data subject to change