



CorePro LEDtube EM/ Mains



CorePro LEDtube 1800mm 21W 840 T8

The CorePro LEDtube is an affordable LED solution 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.

Warnings and Safety

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Product data

General Information		Photobiological safety according to EN 62471	
Cap base	G13 [Medium Bi-Pin Fluorescent]	RG0	
Nominal lifetime	50,000 h		
Switching Cycle	200,000		
Lighting Technology	LED		
Flux measurement reference	Sphere		
Light Technical		Operating and Electrical	
Colour Code	840 [CCT of 4000K]	Line Frequency	50 to 60 Hz
Beam angle (nom.)	160 degree(s)	Input frequency	50 to 60 Hz
Luminous Flux	3,100 lm	Power Consumption	21 W
Colour designation	Cool White (CW)	Lamp current (max.)	106 mA
Correlated Colour Temperature (Nom)	4000 K	Lamp current (min.)	87 mA
Luminous efficacy (rated) (nom.)	147 lm/W	Starting time (nom.)	0.5 s
Colour consistency	<6	Warm-up time to 60% light	0.5 s
Colour rendering index (CRI)	80	Power Factor (Fraction)	0.9
LLMF at end of nominal lifetime (nom.)	70 %	Voltage (nom.)	220–240 V
		Ballast Compatibility	EM/Mains
		LED alternative to fluorescent lamp power	70 W
		Inrush current at mains	8.2
		Max. lamp no. on MCB B type 10A — Mains	65
		Max. lamp no. on MCB B type 10A – EM ballast without Compensation Capacitor.	65

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Max. lamp no. on MCB B type 10A – EM ballast with Compensation Capacitor.	10
Max. lamp no. on MCB B type 16A – Mains	100
Max. lamp no. on MCB B type 16A – EM ballast without Compensation Capacitor.	100
Max. lamp no. on MCB B type 16A – EM ballast with Compensation Capacitor.	16

Temperature

T-Case maximum (nom.)	60 °C
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Controls and Dimming

Dimmable	No
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Mechanical and Housing

Lamp Finish	Frosted
Bulb material	Plastic
Product length	1,800 mm
Bulb shape	T8
Net Weight (Piece)	0.220 kg

Approval and Application

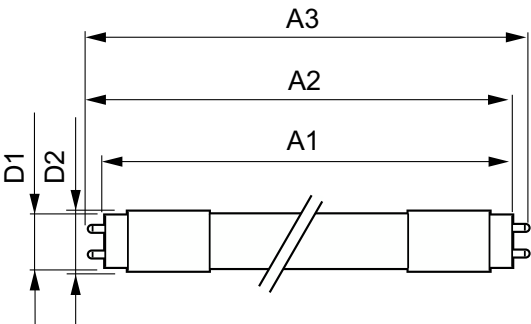
Energy Efficiency Class	D
Energy-saving product	Yes

Approval marks	RoHS compliance KEMA Keur certificate
Energy consumption kWh/1,000 hours	21 kWh
EPREL Registration Number	1323044
EU RoHS compliant	Yes
Flickering value (PstLM)	1
Stroboscopic effect	0.4
Ambient temperature range	-20°C to 45°C

Product Data

Order product name	CorePro LEDtube 1800mm 21W 840 T8
Full product name	CorePro LEDtube 1800mm 21W 840 T8
Full EOC	871951431692800
Order code	31692800
Material no. (12 NC)	929002998802
Numerator – quantity per pack	1
EAN/UPC – Product/Case	8719514316928
Numerator – packs per outer box	10
EAN/UPC - Case	8719514316935

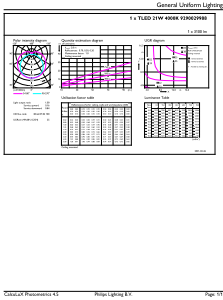
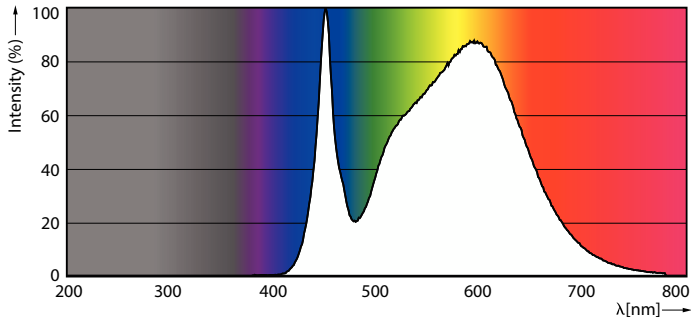
Dimensional drawing



Product	D1	D2	A1	A2	A3
CorePro LEDtube 1800mm 21W 840 T8	25.8 mm	28 mm	1,762.6 mm	1,769.7 mm	1,776.8 mm

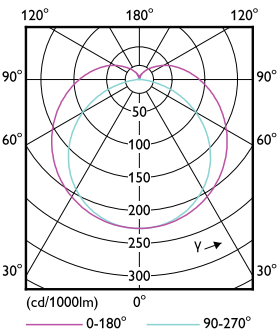
CorePro LEDtube EM/Mains

Photometric data



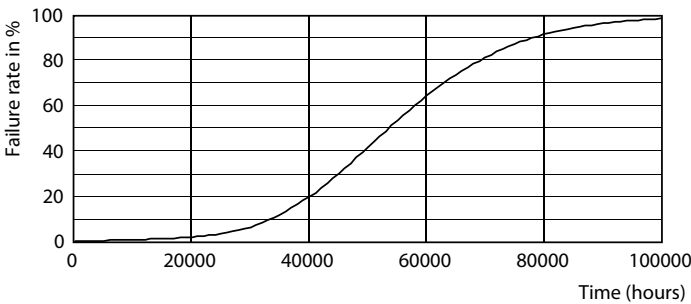
Spectral Power Distribution Colour - CorePro LEDtube 1800mm 21W 840 T8

General uniform lighting - CorePro LEDtube 1800mm 21W 840 T8

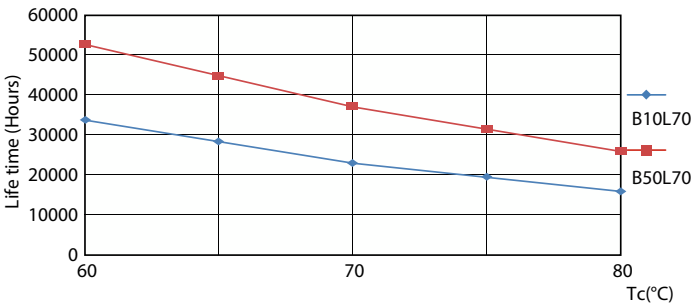


Light Distribution Diagram - CorePro LEDtube 1800mm 21W 840 T8

Lifetime



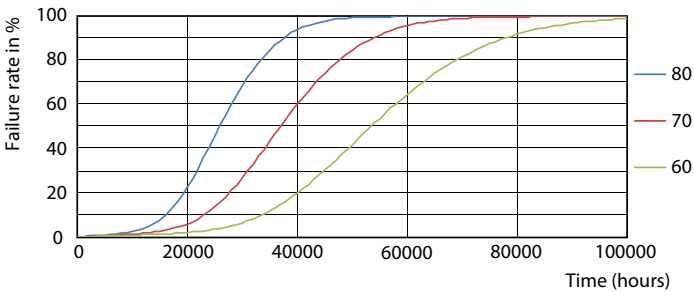
Life Expectancy Diagram



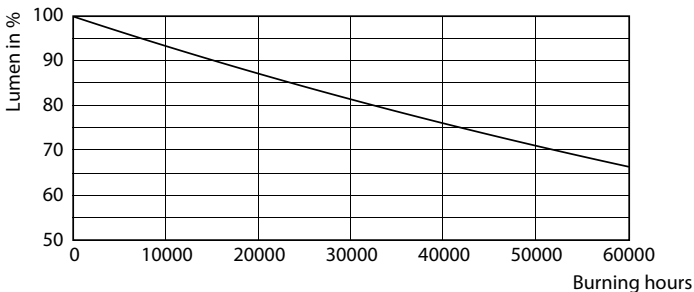
LifetimeVsTc

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Lifetime



FailureRate



Lumen Maintenance Diagram - CorePro LEDtube 1800mm 21W 840 T8

