

CorePro LEDtube EM/ Mains



CorePro LEDtube 1500mm 20W 830 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	RG0	
Nominal lifetime	50,000 h		
Switching Cycle	200,000		
Lighting Technology	LED		
Flux measurement reference	Sphere		
Light Technical		Operating and Electrical	
Colour Code	830 [CCT of 3000K]	Line Frequency	50 to 60 Hz
Beam angle (nom.)	240 degree(s)	Input frequency	50 to 60 Hz
Luminous Flux	2,050 lm	Power Consumption	20 W
Colour designation	White (WH)	Lamp current (nom.)	105 mA
Correlated Colour Temperature (Nom)	3000 K	Starting time (nom.)	0.5 s
Luminous efficacy (rated) (nom.)	102 lm/W	Warm-up time to 60% light	0.5 s
Colour consistency	<6	Power Factor (Fraction)	0.9
Colour rendering index (CRI)	80	Voltage (nom.)	220–240 V
LLMF at end of nominal lifetime (nom.)	70 %	LED alternative to fluorescent lamp power	58 W
		Inrush current at mains	7.4
		Max. lamp no. on MCB B type 10A – Mains	51
		Max. lamp no. on MCB B type 10A – EM ballast without Compensation Capacitor.	76
		Max. lamp no. on MCB B type 10A – EM ballast with Compensation Capacitor.	17

CorePro LEDtube EM/Mains

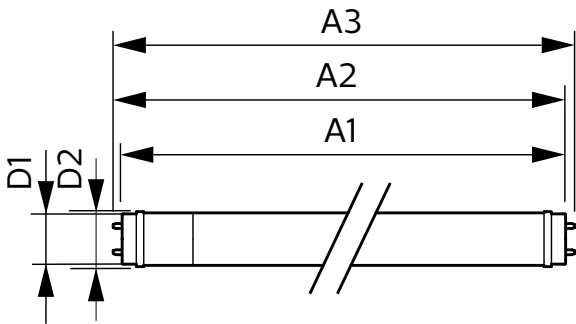
Max. lamp no. on MCB B type 16A — Mains	82
Max. lamp no. on MCB B type 16A – EM ballast without Compensation Capacitor.	122
Max. lamp no. on MCB B type 16A – EM ballast with Compensation Capacitor.	27
Ballast Compatibility	EM/Mains
Temperature	
T-Case maximum (nom.)	60 °C
Controls and Dimming	
Dimmable	No
Mechanical and Housing	
Lamp Finish	Frosted
Bulb material	Glass
Product length	1,500 mm
Bulb shape	T8
Net Weight (Piece)	0.220 kg
Approval and Application	
Energy Efficiency Class	F
Energy-saving product	Yes
Approval marks	RoHS compliance CE marking KEMA Keur certificate

Energy consumption kWh/1,000 hours	20 kWh
EPREL Registration Number	1827710
CE mark	Yes
EU RoHS compliant	Yes
Flickering value (PstLM)	1
Stroboscopic effect	0.4
Ambient temperature range	-20 to +45 °C

Application Conditions	
Can it be used in closed luminaires	Yes

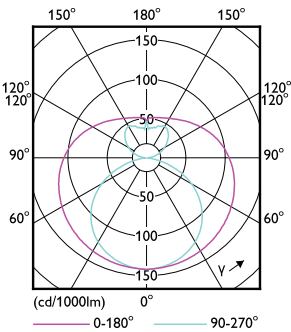
Product Data	
Order product name	CorePro LEDtube 1500mm 20W 830 T8
Full product name	CorePro LEDtube 1500mm 20W 830 T8
Full EOC	871951448642300
Order code	48642300
Material no. (12 NC)	929003577332
Numerator – quantity per pack	1
EAN/UPC – Product/Case	8719514486423
Numerator – packs per outer box	20
EAN/UPC – Case	8719514486430

Dimensional drawing

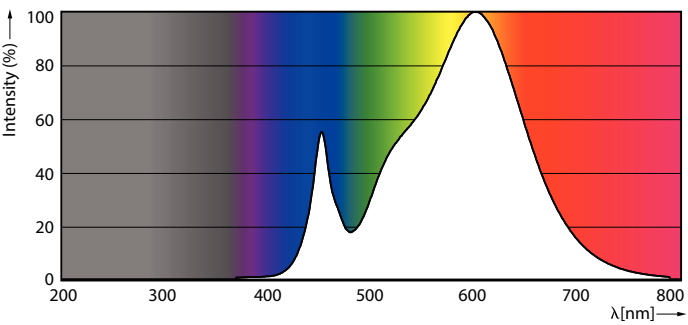


Product	D1	D2	A1	A2	A3
CorePro LEDtube 1500mm 20W 830 T8	25.7 mm	28 mm	1,500 mm	1,507.1 mm	1,514.2 mm

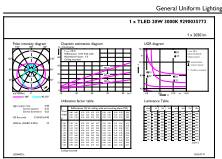
Photometric data



Light Distribution Diagram - CorePro LEDtube 1500mm 20W 830 T8



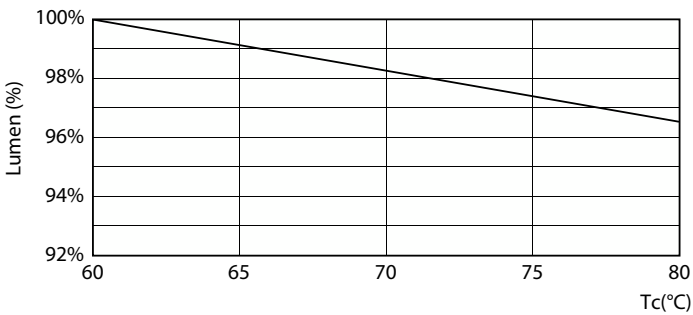
Spectral Power Distribution Colour - CorePro LEDtube 1500mm 20W 830 T8



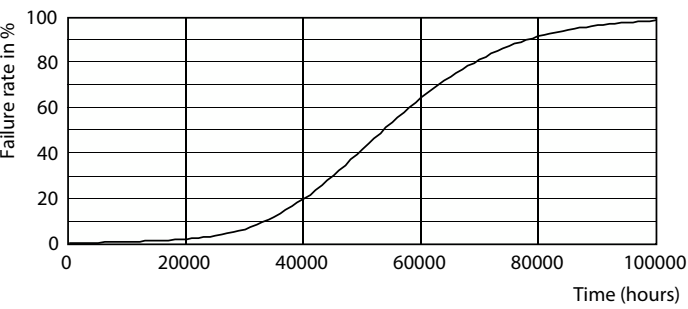
Technical Information 13 Page Lighting 3/17 Page 1/1

General uniform lighting - CorePro LEDtube 1500mm 20W 830 T8

Lifetime



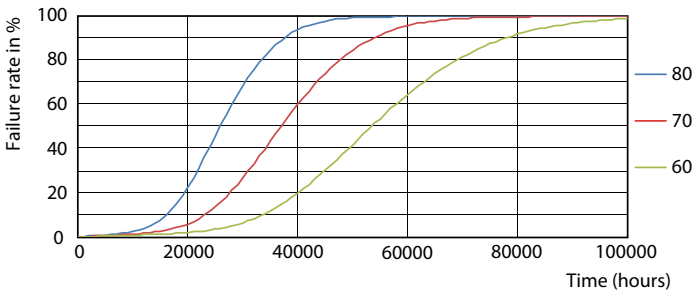
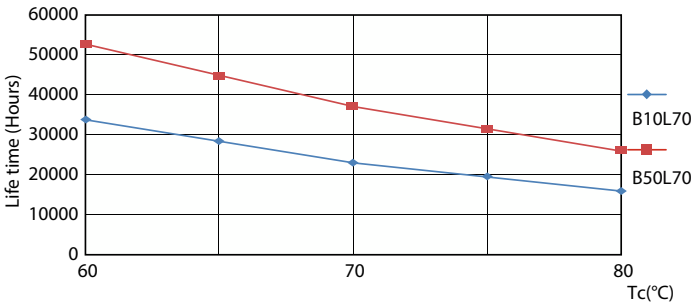
Lumen Maintenance Diagram - CorePro LEDtube 1500mm 20W 830 T8



Life Expectancy Diagram

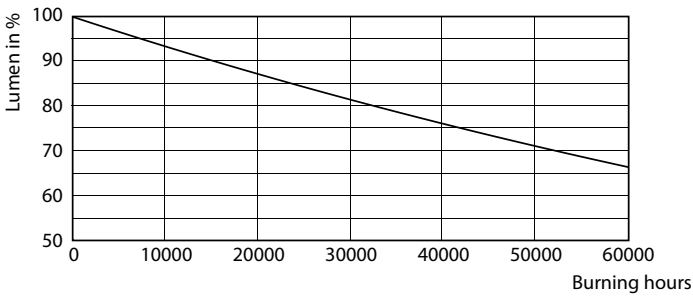
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Lifetime



LifetimeVsTc

FailureRate



Lumen Maintenance Diagram - CorePro LEDtube 1500mm 20W 830 T8

