



CorePro LED tube Universal T8



CorePro LEDtube UN 1200mm HO 18W840 T8

The new Philips CorePro LEDtube Universal T8 brings simplicity to your lighting project. You don't need to pay attention to the driver technology anymore. Thanks to a unique design, Philips CorePro LEDtube Universal T8 directly fits in luminaires operating either on Electro Magnetic ballasts or HF Electronic ballasts or mains power connection. So simple to operate and no need to carry double stock of products! Perfectly safe, reliable & easy to install Philips CorePro LEDtube Universal T8 is the ideal alternative to standard fluorescent tubes to save energy and lower investment.

Product data

General Information		Photobiological safety according to EN 62471		RG0
Cap base	G13			
Nominal lifetime	50,000 h			
Switching Cycle	50,000			
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.)	240 degree(s)	Input frequency	50 to 60 Hz	
Luminous Flux	2,000 lm	Power Consumption	18 W	
Colour designation	Cool White (CW)	Lamp current (nom.)	100 mA	
Correlated Colour Temperature (Nom)	4000 K	Starting time (nom.)	0.5 s	
Luminous efficacy (rated) (nom.)	111 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 %	Ballast Compatibility	Universal	
		LED alternative to fluorescent lamp power	36 W	
		Inrush current at mains	9.4	
		Max. lamp no. on MCB B type 10A — Mains	82	
		Max. lamp no. on MCB B type 10A – EM ballast	104	
		without Compensation Capacitor.		

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Max. lamp no. on MCB B type 10A – EM ballast with Compensation Capacitor.	19
Max. lamp no. on MCB B type 16A – Mains	131
Max. lamp no. on MCB B type 16A – EM ballast without Compensation Capacitor.	166
Max. lamp no. on MCB B type 16A – EM ballast with Compensation Capacitor.	30

Temperature

T-Case maximum (nom.)	55 °C
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Controls and Dimming

Dimmable	No
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Mechanical and Housing

Lamp Finish	Frosted
Bulb material	Glass
Product length	1,200 mm
Bulb shape	T8
Net Weight (Piece)	0.215 kg

Approval and Application

Energy Efficiency Class	E
Energy-saving product	Yes
Approval marks	RoHS compliance CE marking KEMA Keur certificate

Energy consumption kWh/1,000 hours	18 kWh
EPREL Registration Number	1932578
CE mark	Yes
EU RoHS compliant	Yes
Flickering value (PstLM)	1
Stroboscopic effect	0.4
Ambient temperature range	-20 to +45 °C

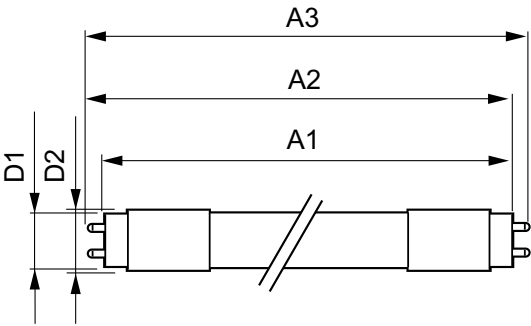
Application Conditions

Can it be used in closed luminaires	Yes
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Product Data

Order product name	CorePro LEDtube UN 1200mm HO 18W840 T8
Full product name	CorePro LEDtube UN 1200mm HO 18W840 T8
Full EOC	871869680168000
Order code	80168000
Material no. (12 NC)	929001869302
Numerator – quantity per pack	1
EAN/UPC – Product/Case	8718696801680
Numerator – packs per outer box	10
EAN/UPC – Case	8718696801697

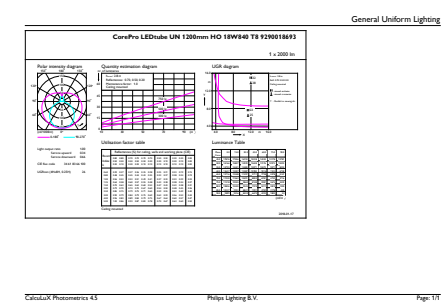
Dimensional drawing



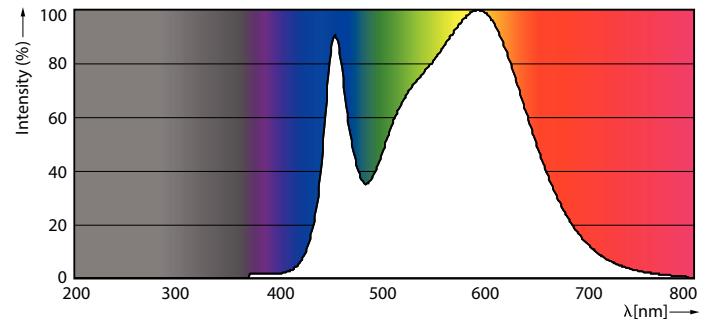
Product	D1	D2	A1	A2	A3
CorePro LEDtube UN 1200mm HO 18W840 T8	27.9 mm	28 mm	1,199.4 mm	1,205.3 mm	1,213.6 mm

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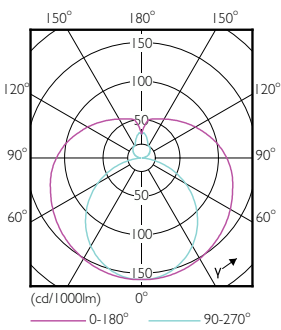
Photometric data



General uniform lighting - CorePro LEDtube UN 1200mm HO 18W840 T8

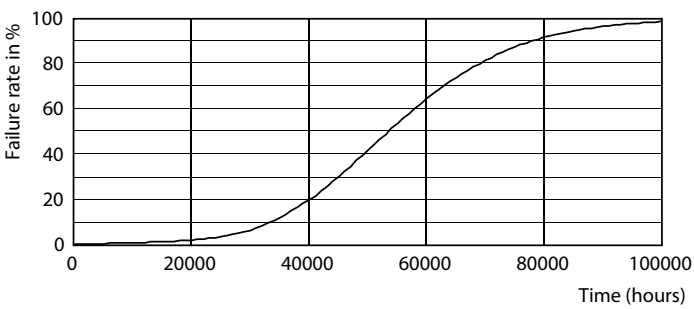


Spectral Power Distribution Colour - CorePro LEDtube UN 1200mm HO 18W840 T8

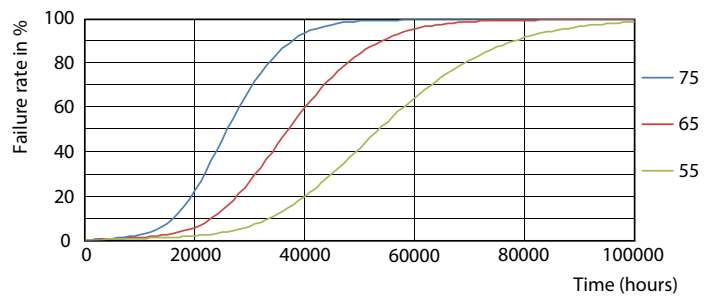


Light Distribution Diagram - CorePro LEDtube UN 1200mm HO 18W840 T8

Lifetime



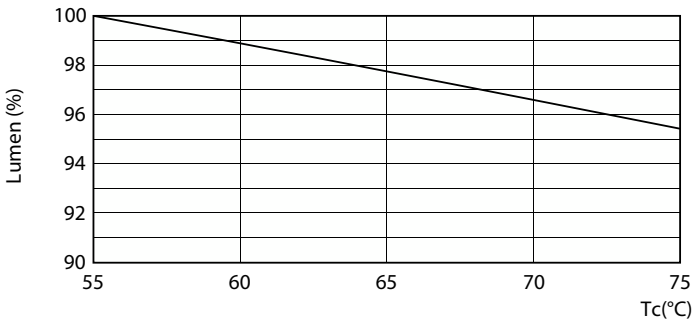
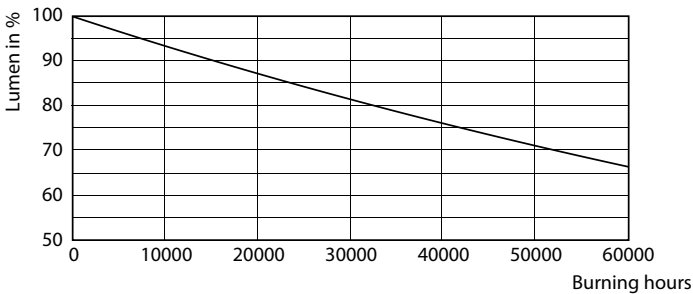
Life Expectancy Diagram



FailureRate

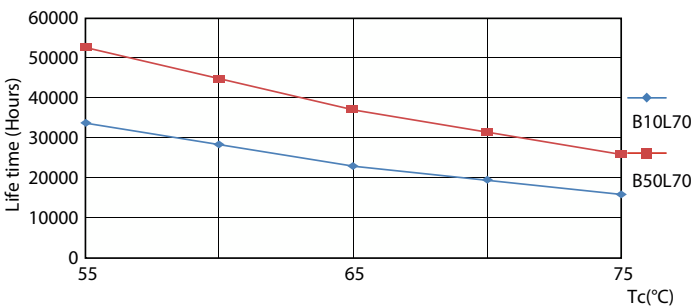
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Lifetime



Lumen Maintenance Diagram - CorePro LEDtube UN 1200mm HO 18W840 T8

Lumen Maintenance Diagram - CorePro LEDtube UN 1200mm HO 18W840 T8



LifetimeVsTc

