PHILIPS

Lighting

CorePro LED tube EM/ Mains T8

CorePro LEDtube 1500mm 20W 840 T8 CL

CorePro, LEDtube, T8, EM/Mains, 1500 mm, 20 W, 58W TL-D, 4000 K, 2200 lm, CRI 80, 50000 hour(s)

CorePro, LEDtube, T8, EM/Mains, 1500 mm, 20 W, LED alternative to 58W TL-D, 4000 K, 2200 lm, CRI 80, 50000 hour(s), 110 lm/W, EEL E, G13, Beam angle 240 degree(s), Glass, 1500 mm, RG0, SDCM 6, PF 0.9, IP20, SVM 0.4, PstLM 1

Warnings and Safety

- -

Product data

General Information	
Cap-Base	G13
Nominal lifetime	50,000 hour(s)
Switching Cycle	200,000
Lighting Technology	LEDtube
Flux measurement reference	Sphere

Light Technical	
Color Code	840 [CCT of 4000K]
Beam Angle (Nom)	240 degree(s)
Luminous Flux	2,200 lm
Color Designation	Cool White (CW)
Correlated Color Temperature (Nom)	4000 K
Luminous Efficacy (rated) (Nom)	110 lm/W
Color Consistency	<6
Color rendering index (CRI)	80
LLMF At End Of Nominal Lifetime (Nom)	70 %
Photobiological safety according to EN 62471	RG0

Operating and Electrical	
Line Frequency	50 to 60 Hz
Input Frequency	50 to 60 Hz
Power Consumption	20 W
Lamp Current (Nom)	105 mA
Starting Time (Nom)	0.5 s
Warm-up time to 60% light	0.5 s
Power Factor (Fraction)	0.9
Voltage (Nom)	220-240 V
LED alternative to fluorescent lamp power	58W TL-D
Inrush current at mains	7.4

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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
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

Bulb 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	E
Energy Saving Product	Yes
Approval Marks	RoHS compliance CE marking KEMA Keur certificate

Energy Consumption kWh/1000 h	20 kWh
EPREL Registration Number	1827700
CE mark	Yes
EU RoHS compliant	Yes
Flickering value (PstLM) - Flickering value as per EN 61000-3-3	1
Stroboscopic effect visibility measure (SVM)	0.4
Ambient temperature range	-20 to +45 °C

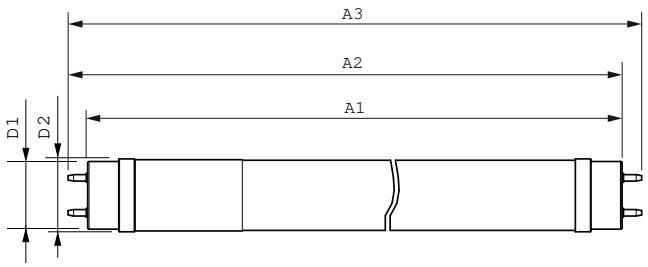
Application Conditions

can it be used in closed luminaires	Yes
Wireless Technology	Not applicable

Product Data

Order product name	CorePro LEDtube 1500mm 20W 840 T8 CL
Full product name	CorePro LEDtube 1500mm 20W 840 T8 CL
Full product code	871951445981600
Order code	45981600
Material Nr. (12NC)	929003547462
Numerator - Quantity Per Pack	1
EAN/UPC - Product/Case	8719514459816
Numerator - Packs per outer box	20
EAN/UPC - Case	8719514459823

Dimensional drawing



D1	D2	A1	A2	A3
25.7mm	28mm	1500mm	1507.1mm	1514.2mm

Product	D1	D2	A1	A2	A3
CorePro LEDtube 1500mm 20W 840 T8 CL	25.7 mm	28 mm	1,500 mm	1,507.1 mm	1,514.2 mm

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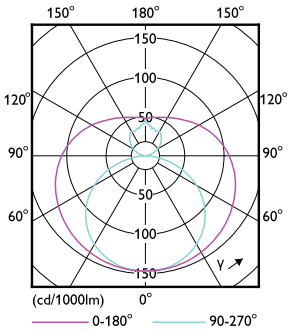
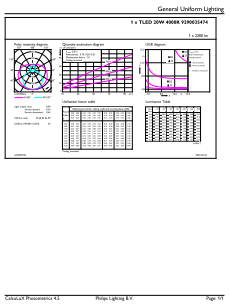
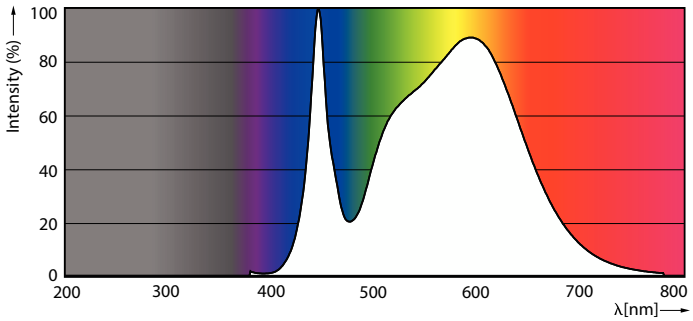
Photometric data



Light Distribution Diagram - CorePro LEDtube 1500mm 20W 840 T8 CL

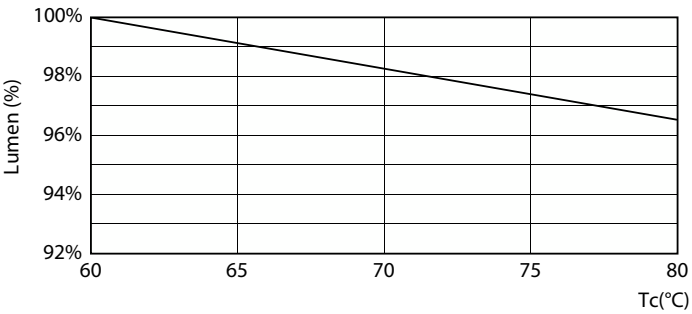


General uniform lighting - CorePro LEDtube 1500mm 20W 840 T8 CL

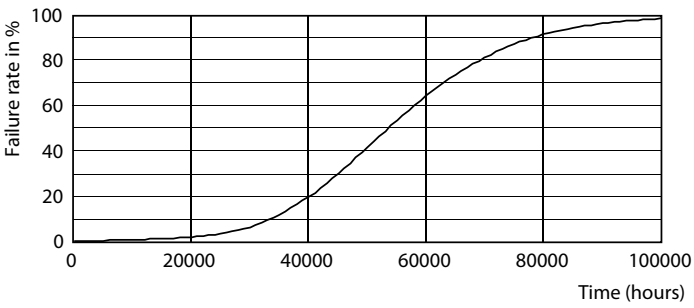


Spectral Power Distribution Colour - CorePro LEDtube 1500mm 20W 840 T8 CL

Lifetime



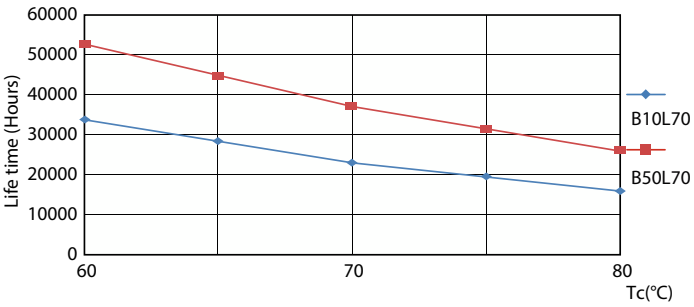
Lumen Maintenance Diagram - CorePro LEDtube 1500mm 20W 840 T8 CL



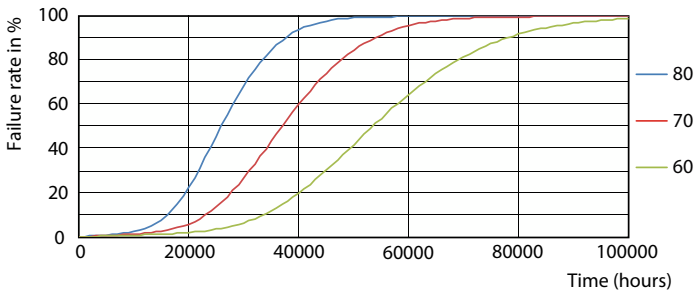
Life Expectancy Diagram

CorePro LED tube EM/Mains T8

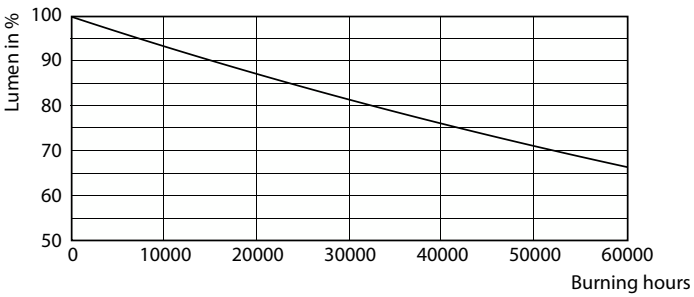
Lifetime



LifetimeVsTc



FailureRate



Lumen Maintenance Diagram - CorePro LEDtube 1500mm 20W 840 T8 CL

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