



MASTER LED tube T8 UltraEfficient with Recycled Plastic



MAS LEDtube 1200mm UE 11.9W 840 T8 EELA

MASTER, LEDtube, T8, EM/Mains, 1200 mm, 11.9 W, 36W TL-D, 4000 K, 2500 lm, CRI 80, 100000 hour(s)

MASTER, LEDtube, T8, EM/Mains, 1200 mm, 11.9 W, LED alternative to 36W TL-D, 4000 K, 2500 lm, CRI 80, 100000 hour(s), 210 lm/W, EEL A, G13 Rotatable end-cap, Beam angle 160 degree(s), Plastic, 40 %, 1200 mm, RG0, SDCM 6, PF 0.9, IP20, SVM 0.1, PstLM 0.1

Product data

General Information	
Cap-Base	G13 Rotatable end-cap
Nominal lifetime	100,000 hour(s)
Switching Cycle	200,000
Lighting Technology	LEDtube
Flux measurement reference	Sphere
Warranty period	10 years
Light Technical	
Color Code	840 [CCT of 4000K]
Beam Angle (Nom)	160 degree(s)
Luminous Flux	2,500 lm
Color Designation	Cool White (CW)
Correlated Color Temperature (Nom)	4000 K

Luminous Efficacy (rated) (Nom)	210 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	11.9 W
Lamp Current (Max)	63 mA
Lamp Current (Min)	48 mA
Starting Time (Nom)	0.5 s
Warm-up time to 60% light	0.5 s

MASTER LED tube T8 UltraEfficient with Recycled Plastic

Power Factor (Fraction)	0.9
Voltage (Nom)	220-240 V
LED alternative to fluorescent lamp power	36W TL-D
Inrush current at mains	5
Max. lamp no. on MCB B type 10A – Mains	120
Max. lamp no. on MCB B type 10A – EM ballast without Compensation Capacitor.	120
Max. lamp no. on MCB B type 10A – EM ballast with Compensation Capacitor.	15
Max. lamp no. on MCB B type 16A – Mains	190
Max. lamp no. on MCB B type 16A – EM ballast without Compensation Capacitor.	190
Max. lamp no. on MCB B type 16A – EM ballast with Compensation Capacitor.	25
Ballast Compatibility	EM/Mains

Temperature

T-Case Maximum (Nom)	40 °C
----------------------	-------

Controls and Dimming

Dimmable	No
----------	----

Mechanical and Housing

Bulb Finish	Frosted
Bulb Material	Plastic
Product Length	1,200 mm
Bulb Shape	T8
Net Weight (Piece)	0.230 kg

Approval and Application

Energy Efficiency Class	A
Energy Saving Product	Yes
Approval Marks	RoHS compliance CE marking KEMA Keur certificate ENEC certificate

Energy Consumption kWh/1000 h	12 kWh
EPREL Registration Number	2102398
CE mark	Yes
EU RoHS compliant	Yes
LED Innovations	UltraEfficient
Flickering value (PstLM) – Flickering value as per EN 61000-3-3	0.1
Stroboscopic effect visibility measure (SVM)	0.1
Ambient temperature range	-20 to +45 °C
Post-consumer recycled plastic material ratio	40 %

Application Conditions

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

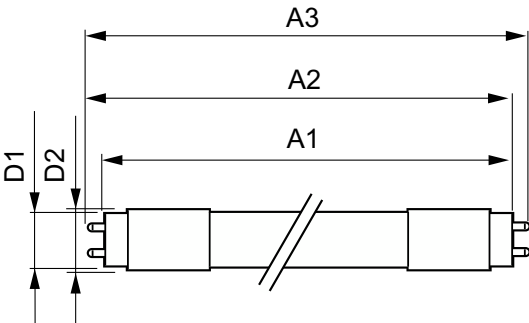
Sustainability Data

Sustainability rating	Signify Circle
Product non-virgin material ratio	26.5 %

Product Data

Order product name	MAS LEDtube 1200mm UE 11.9W 840 T8 EELA
Full product name	MAS LEDtube 1200mm UE 11.9W 840 T8 EELA
Full product code	871951443166900
Order code	929003482202
Material Nr. (12NC)	929003482202
Numerator - Quantity Per Pack	1
EAN/UPC - Product/Case	8719514431669
Numerator - Packs per outer box	10
EAN/UPC - Case	8719514431676

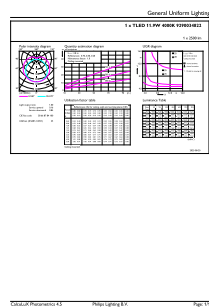
Dimensional drawing



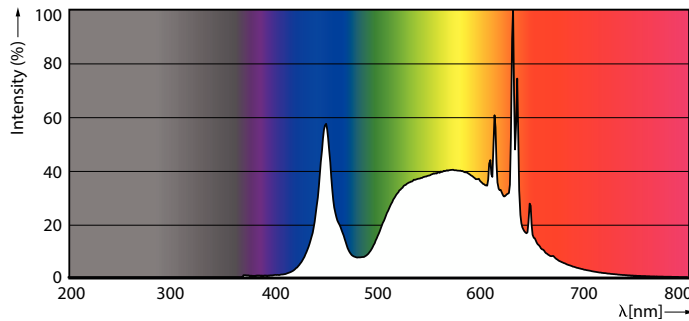
Product	D1	D2	A1	A2	A3
MAS LEDtube 1200mm UE 11.9W	25.8 mm	28 mm	1,198.2 mm	1,205.3 mm	1,212.4 mm
840 T8 EELA					

MASTER LED tube T8 UltraEfficient with Recycled Plastic

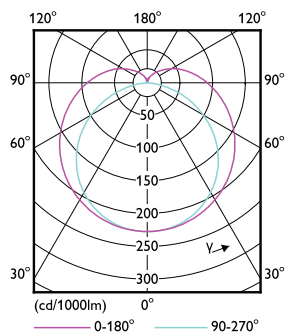
Photometric data



General uniform lighting - MAS LEDtube 1200mm UE 11.9W 840 T8 EELA

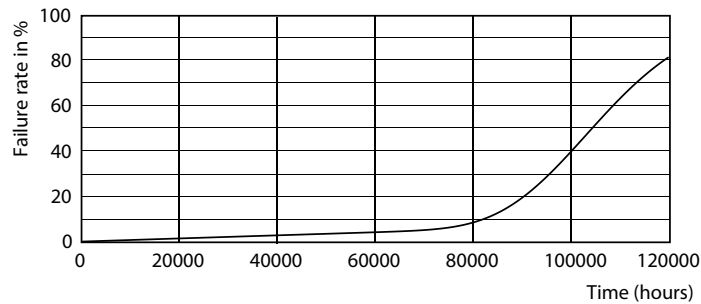


Spectral Power Distribution Colour - MAS LEDtube 1200mm UE 11.9W 840 T8 EELA

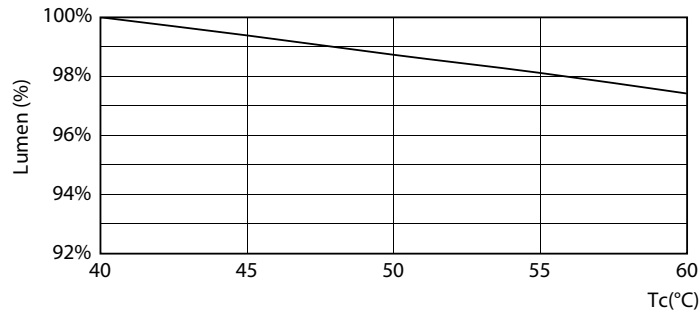


Light Distribution Diagram - MAS LEDtube 1200mm UE 11.9W 840 T8 EELA

Lifetime



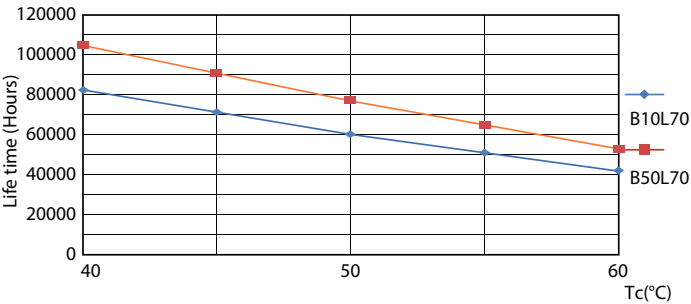
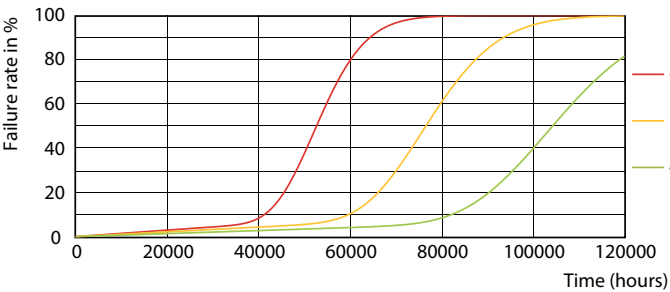
Life Expectancy Diagram



Lumen Maintenance Diagram - MAS LEDtube 1200mm UE 11.9W 840 T8 EELA

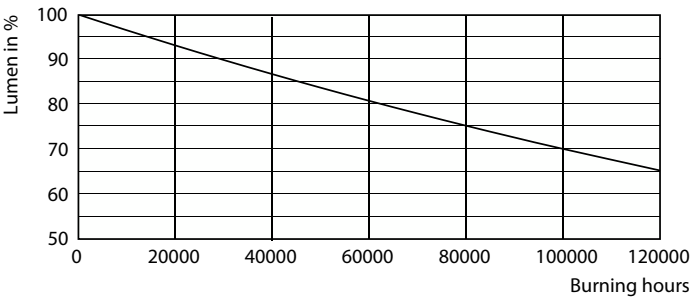
MASTER LED tube T8 UltraEfficient with Recycled Plastic

Lifetime



LEDtube_100K_4060_FailureRate-LED

LifetimeVsTc



Lumen Maintenance Diagram - MAS LEDtube 1200mm UE 11.9W 840 T8 EELA

