PHILIPS

Lighting



MASTER LED tube EM/Mains T8 with Recycled Plastic



MAS LEDtube 1500mm UO 20W 840 T8 EELB

MASTER, LEDtube, T8, EM/Mains, 1500 mm, 20 W, 58W TL-D, 4000 K, 3700 lm, CRI 80, 75000 hour(s)

MASTER, LEDtube, T8, EM/Mains, 1500 mm, 20 W, LED alternative to 58W TL-D, 4000 K, 3700 lm, CRI 80, 75000 hour(s), 185 lm/W, EEL B, G13 Rotatable end-cap, Beam angle 160 degree(s), Plastic, 40 %, 1500 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	75,000 hour(s)
Switching Cycle	200,000
Lighting Technology	LEDtube
Flux measurement reference	Sphere
Warranty period	5 years

Light Technical	
Color Code	840 [CCT of 4000K]
Beam Angle (Nom)	160 degree(s)
Luminous Flux	3,700 lm
Color Designation	Cool White (CW)
Correlated Color Temperature (Nom)	4000 K
Luminous Efficacy (rated) (Nom)	185 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	
Input Frequency	50 to 60 Hz
Power Consumption	20 W
Lamp Current (Max)	103 mA
Lamp Current (Min)	85 mA
Starting Time (Nom)	0.5 s
Warm-up time to 60% light	0.5 s
Power Factor (Fraction)	0.9

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Voltage (Nom)	220-240 V
LED alternative to fluorescent lamp power	58W TL-D
Inrush current at mains	9
Max. lamp no. on MCB B type 10A - Mains	75
Max. lamp no. on MCB B type 10A – EM ballast without Compensation Capacitor.	75
Max. lamp no. on MCB B type 10A – EM ballast with Compensation Capacitor.	10
Max. lamp no. on MCB B type 16A - Mains	120
Max. lamp no. on MCB B type 16A – EM ballast without Compensation Capacitor.	120
Max. lamp no. on MCB B type 16A – EM ballast with Compensation Capacitor.	16
Ballast Compatibility	EM/Mains

Temperature

T-Case Maximum (Nom)	50 °C

Controls and Dimming

Dimmable	No

Mechanical and Housing

Bulb Finish	Frosted
Bulb Material	Plastic
Product Length	1,500 mm
Bulb Shape	T8
Net Weight (Piece)	0.265 kg

Approval and Application

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

Energy Consumption kWh/1000 h	20 kWh
EPREL Registration Number	2571900
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

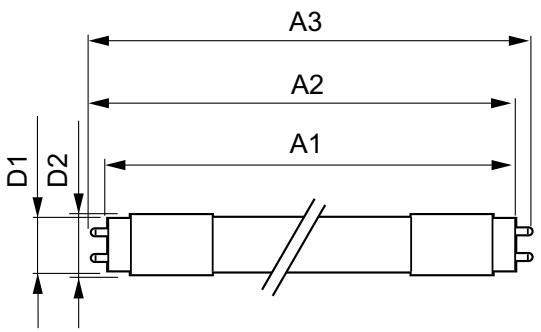
Sustainability Data

Sustainability rating	Signify Circle
Product non-virgin material ratio	25.8 %

Product Data

Order product name	MAS LEDtube 1500mm UO 20W 840 T8 EELB
Full product name	MAS LEDtube 1500mm UO 20W 840 T8 EELB
Full product code	872016938801700
Order code	929004242202
Material Nr. (12NC)	929004242202
Numerator - Quantity Per Pack	1
EAN/UPC - Product/Case	8720169388017
Numerator - Packs per outer box	10
EAN/UPC - Case	8720169388024

Dimensional drawing



Product	D1	D2	A1	A2	A3
MAS LEDtube 1500mm UO 20W 840 T8 EELB	25.8 mm	28 mm	1,498.8 mm	1,505.9 mm	1,513 mm

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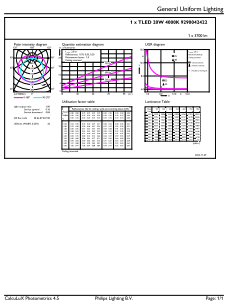
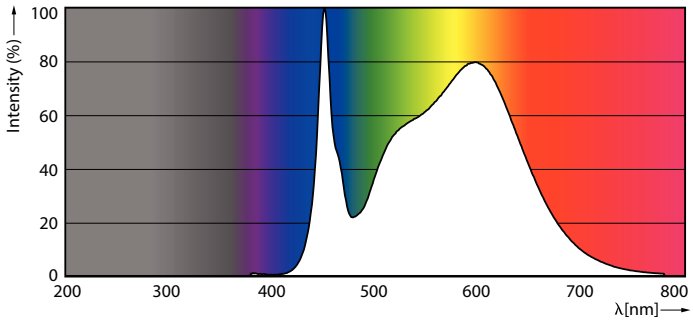
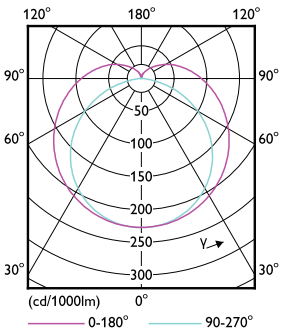
Photometric data



General uniform lighting - MAS LEDtube 1500mm UO 20W 840 T8 EELB

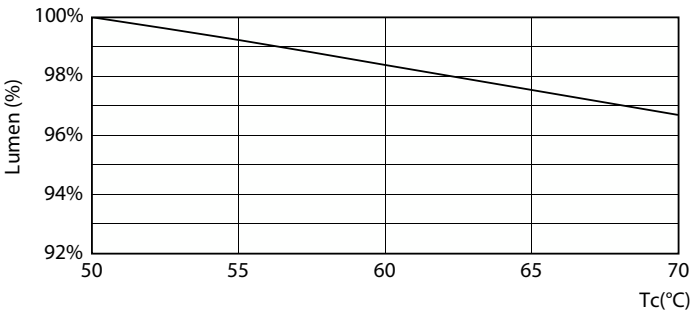


Spectral Power Distribution Colour - MAS LEDtube 1500mm UO 20W 840 T8 EELB

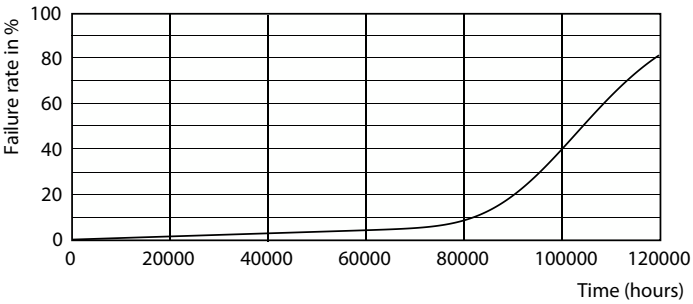


Light Distribution Diagram - MAS LEDtube 1500mm UO 20W 840 T8 EELB

Lifetime



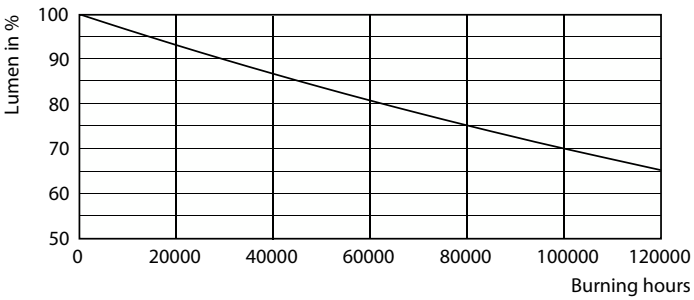
Lumen Maintenance Diagram - MAS LEDtube 1500mm UO 20W 840 T8 EELB

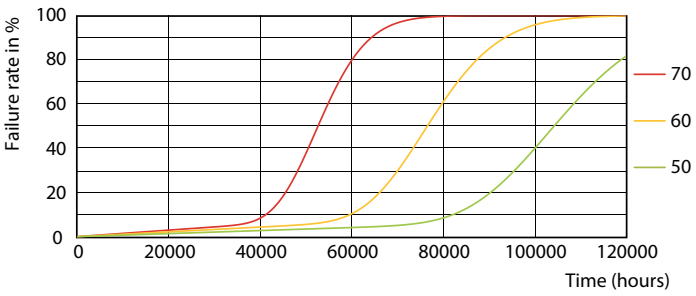


Life Expectancy Diagram

MASTER LED tube EM/Mains T8 with Recycled Plastic

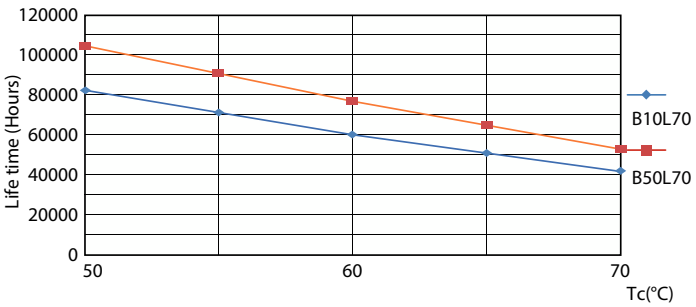
Lifetime





Lumen Maintenance Diagram - MAS LEDtube 1500mm UO 20W 840 T8 EELB

Life Expectancy Diagram



Life Expectancy Diagram

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