

MasterConnect LEDtube EM/mains T8



MC LEDtube IA 1500mm UO 25W840 T8

Introducing MasterConnect LEDtubes – smart retrofit LED T8 lamps that give you an easy and seamless way to upgrade to connected lighting. Simply set up with an intuitive app and MasterConnect LED tube lighting can be programmed to maximize energy savings, while providing wireless and automated light for your comfort and convenience. What's more, it is fully scalable and upgradable. If you want to enjoy additional benefits such as remote control or a management dashboard, you can simply keep the lamps you currently have installed and add a gateway to experience all the advantages of a cloud-based system. There's no better way to take lighting solutions to the next level.

Product data

General Information	
Cap-Base	G13 [Medium Bi-Pin Fluorescent]
Nominal lifetime	60,000 hour(s)
Switching Cycle	200,000
Lighting Technology	LED
Flux measurement reference	Sphere
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)	148 lm/W
Color Consistency	<6
Color rendering index (CRI)	83

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	25 W
Lamp Current (Max)	117 mA
Lamp Current (Min)	108 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
Ballast Compatibility	EM/Mains
LED alternative to fluorescent lamp power	58 W
Inrush current at mains	9

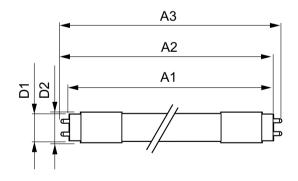
Datasheet, 2025, March 17 data subject to change

MasterConnect LEDtube EM/mains T8

Max. lamp no. on MCB B type 10A - Mains	73
Max. lamp no. on MCB B type 10A – EM ballast	73
without Compensation Capacitor.	
Max. lamp no. on MCB B type 10A – EM ballast	15
with Compensation Capacitor.	
Max. lamp no. on MCB B type 16A - Mains	116
Max. lamp no. on MCB B type 16A – EM ballast	116
without Compensation Capacitor.	
Max. lamp no. on MCB B type 16A – EM ballast	24
with Compensation Capacitor.	
Temperature	
T-Case Maximum (Nom)	65 °C
Controls and Dimming	
Dimmable	Wireless Dim
Mechanical and Housing	
Product Length	1,500 mm
Bulb Shape	T8
Net Weight (Piece)	0.450 kg
Approval and Application	
Energy Efficiency Class	D
Energy Saving Product	Yes

Approval Marks	RoHS compliance KEMA Keur		
	certificate		
Energy Consumption kWh/1000 h	25 kWh		
EPREL Registration Number	406202		
CE mark	Yes		
EU RoHS compliant	Yes		
Flickering value (PstLM) - Flickering value as per	1		
EN 61000-3-3			
Stroboscopic effect visibility measure (SVM)	0.9		
Ambient temperature range	-20 °C to 45 °C		
Product Data			
Order product name	MC LEDtube IA 1500mm UO		
	25W840 T8		
Full product name	MC LEDtube IA 1500mm UO		
	25W840 T8		
Full product code	871869966976800		
Order code	929002210802		
Material Nr. (12NC)	929002210802		
Numerator - Quantity Per Pack	1		
EAN/UPC - Product/Case	8718699669768		
Numerator - Packs per outer box	10		
EAN/UPC - Case	8718699669775		

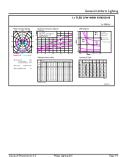
Dimensional drawing



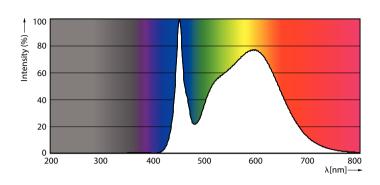
Product	D1	D2	A1	A2	A3
MC LEDtube IA 1500mm UO	25.8 mm	28 mm	1,498.7 mm	1,505.8 mm	1,512.9 mm
25W840 T8					

MasterConnect LEDtube EM/mains T8

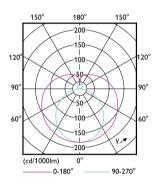
Photometric data



General uniform lighting - MC LEDtube IA 1500mm UO 25W840 T8

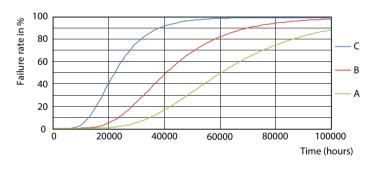


Spectral Power Distribution Colour - MC LEDtube IA 1500mm UO 25W840 T8



Light Distribution Diagram - MC LEDtube IA 1500mm UO 25W840 T8

Lifetime



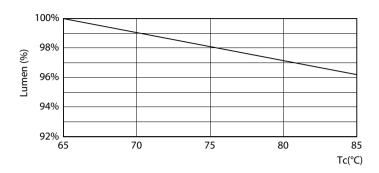
70000 60000 E H 40000 B 10L70 B 50L70 D A B C Tc(°C)

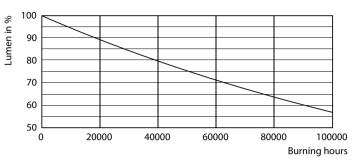
FailureRate

LifetimeVsTc

MasterConnect LEDtube EM/mains T8

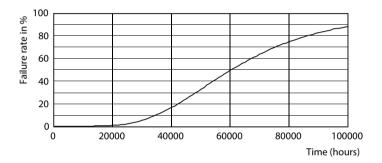
Lifetime





Lumen Maintenance Diagram - MC LEDtube IA 1500mm UO 25W840 T8

Lumen Maintenance Diagram - MC LEDtube IA 1500mm UO 25W840 T8



Life Expectancy Diagram



© 2025 Signify Holding All rights reserved. Signify does not give any representation or warranty as to the accuracy or completeness of the information included herein and shall not be liable for any action in reliance thereon. The information presented in this document is not intended as any commercial offer and does not form part of any quotation or contract, unless otherwise agreed by Signify. Philips and the Philips Shield Emblem are registered trademarks of Koninklijke Philips N.V.