T8 - Magnetic/AC Mains

LED Tubes

LT205180/mb-12v02+G13+840+V0240

18W G13 1800lm 4000K Ra80 1200mm

GENERAL DESCRIPTION

Model Number	LT205180/mb-12v02
Product Code	LT205180/mb-12v02+G13+840+V0240
Model Identifier	711834/MM11834-1
Cap Base	G13
Dimmable	No
Working Temperature	-30℃ to +45℃

TECHNICAL PARAMETERS

LIFE PERFORMANCE

Indicative Lifetime L70B50 (hrs)	15000 at 25°C
Number of Switching Cycles	> 100000

ELECTRICAL DATA

On-mode Power (W)	18
Input Voltage	220-240 VAC
Frequency	50/60 Hz
Displacement Factor (cos φ1)	0.70
Equivalent Power (W)	N/A
Standby Power (W)	0.0
Networked Standby Power (W)	N/A
Survival Factor	0.90
Lumen Maintenance Factor	0.93

PHOTOMETRIC INFORMATION

Useful Luminous Flux (lm)	1800
Useful Luminous Flux in 90° Cone (lm)	N/A
Useful Luminous Flux in 120° Cone (lm)	N/A
Correlated Colour Temperature (K)	4000
Colour Consistency	6
Colour Rendering Index	80
R9 Colour Rendering Index Value	0
Beam Angle (˚)	N/A
Peak Luminous Intensity (cd)	N/A
Stroboscopic Effect Metric (SVM)	0.4
Flicker Metric (P_{st}^{LM})	1.0
Chromaticity Coordinates (x and y)	0.376 0.380

ENERGY EFFICIENCY

Weighted Energy Consumption (kWh/1000hrs)	18
Energy Class	F

CERTIFICATES & STANDARDS

Standards Compliance	IEC/EN 62776, IEC/EN 62493, IEC/EN 62471, ErP 2019/2020, IEC 62612, IEC CISPR15, EN 55015, IEC/EN 61547, IEC/EN 61000-3-2, IEC/EN 61000-3-3
Approvals	CE, RoHS

DIMENSIONS & WEIGHT

Height (mm)	1212
Width (mm)	28
Depth (mm)	28
Weight (g)	210

T8 - Magnetic/AC Mains

LED Tubes

LT205180/mb-12v02+G13+840+V0240

18W G13 1800lm 4000K Ra80 1200mm

SPECIFIC PRECAUTIONS - GENERAL GUIDELINES

Dimming not allowed

Lamp not suitable for use if broken
(its outer case)

Indoor use only

Do not run LED and incandescent lights on a trailer

Lamp suitable for dimming only with specific dimmers
(A list of compatible dimmers shall be provided on the website www.megaman.cc)

Lamp not suitable for use under dust and moisture

Turn off the lamp and let it cool down before any replacement

For lamps with a weight significantly higher than that of the lamps for which they are a replacement, attention should be drawn to the fact that the increased weight may reduce the mechanical stability of certain luminaires and lamp holders and may impair contact making and lamp retention.

TESTING CONDITIONS

Refer to Annex A of IEC 62612 method of measuring lamp characteristics

Light output and life hour are measured at 25°C, 230V

T8 - Magnetic/AC Mains

LED Tubes

LT205180/mb-12v02+G13+840+V0240

18W G13 1800lm 4000K Ra80 1200mm

CALCULATIONS - GENERAL RULES

Refer to Annex II of Energy Labelling (EU) 2019/2015

Energy efficiency classes and calculation method

The energy efficiency class of light sources shall be determined as set out in Table 1, on the basis of the total mains efficacy η_{TM}, which is calculated by dividing the declared useful luminous flux Φ_{use} (expressed in *lm*) by the declared on-mode power consumption P_{on} (expressed in *W*) and multiplying by the applicable factor FTM of Table 2, as follows:

$$\eta TM = (\Phi use/Pon) \times FTM\ (lm/W)$$

Table 1

Energy efficiency classes of light sources

Energy efficiency class	Total mains efficacy ηTM (lm/W)
A	210 ≤ ηTM
B	185 ≤ ηTM < 210
C	160 ≤ ηTM < 185
D	135 ≤ ηTM < 160
E	110 ≤ ηTM < 135
F	85 ≤ ηTM < 110
G	ηTM < 85

Table 2

Factors FTM by light source type

Light source type	Factor FTM
Non-directional (NDLS) operating on mains (MLS)	1,000
Non-directional (NDLS) not operating on mains (NMLS)	0,926
Directional (DLS) operating on mains (MLS)	1,176
Directional (DLS) not operating on mains (NMLS)	1,089

ADDITIONAL PART

A list of compatible dimmers shall be provided on the website www.megaman.cc

MEGAMAN GmbH
Halskestraße 22-26, AircomParc A1
40880 Ratingen
Germany

16/5/2023