

SIB707v2840

TECHNICAL DOCUMENT- LIGHT SOURCE

Supplier's name or trade mark:	MEGAMAN GmbH
Supplier's address	Halskestraße 22-26, AircomParc A140880 RatingenGermany

Model identifier	SIB707v2840
Equivalent Models	N/A

Technical Document

Useful luminous flux	6430
On-mode Power (Pon)	44 W
Beam angle in degrees for directional light sources (DLS)	N/A
Peak luminous intensity in cd for directional light sources (DLS)	N/A
Correlated Colour Temperature	4000 K
Chromaticity coordinates (x,y)	0.386, 0.383
Colour Rendering Index (CRI)	Ra 80
Standby Power (Psb)	N/A
Networked Standby Power (Pnet)	N/A
R9 colour rendering index value for LED and OLED light sources	0
Survival factor for LED and OLED light sources	0.90
Lumen maintenance factor for LED and OLED light sources	0.96
Indicative lifetime L70B50 for LED and OLED light sources	50000
Displacement Factor (cos φ1)	0.9
Colour Consistency	SDCM ≤ 6
Luminance for HLLS	N/A
Flicker metric (PstLM)	0.8
Stroboscopic effect metric (SVM)	0.4
Excitation purity for CTLS	N/A
Weighted Energy Consumption	44 kWh/1000hrs
Energy Efficiency Class	D
Outer dimensions in mm	
Height	6.5
Width	24.5
Depth	1377
Standards Compliance	CE, RoHS

CALCULATIONS - GENERAL RULE

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:

$$\eta_{TM} = (\Phi_{use}/P_{on}) \times FTM \text{ (lm/W)}$$

Table 1

Energy efficiency classes of light sources

Energy efficiency class	Total mains efficacy η_{TM} (lm/W)
A	$210 \leq \eta_{TM}$
B	$185 \leq \eta_{TM} < 210$
C	$160 \leq \eta_{TM} < 185$
D	$135 \leq \eta_{TM} < 160$
E	$110 \leq \eta_{TM} < 135$
F	$85 \leq \eta_{TM} < 110$
G	$\eta_{TM} < 85$

Table 2

Factors FTM by light source type

Light source type	Factor FTM
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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 | WEEE - Green Room | LED, Energy-efficient & Eco-friendly Lighting, Restriction of Hazardous Substances

<https://www.megaman.cc/resources/green-room/weee>

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



Removable Light Source			
Model No.	Light Source Model identifier	Input Voltage (V)	Input Current (mA)
FIB70500v2	SIB705v2830	DC 400	46
FIB70500v2	SIB705v2840	DC 400	46
FIB70500v2	SIB705v2865	DC 400	46
FIB73300v0	SIB733v0830	DC 400	67
FIB73300v0	SIB733v0840	DC 400	67
FIB73300v0	SIB733v0865	DC 400	67
FIB70600v2	SIB706v2830	DC 400	87
FIB70600v2	SIB706v2840	DC 400	87
FIB70600v2	SIB706v2865	DC 400	87
FIB70700v2	SIB707v2830	DC 400	110
FIB70700v2	SIB707v2840	DC 400	110
FIB70700v2	SIB707v2865	DC 400	110
FIB73400v0	SIB734v0830	DC 400	129
FIB73400v0	SIB734v0840	DC 400	129
FIB73400v0	SIB734v0865	DC 400	129



