

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

Model identifier	SOB786v1840
Equivalent Models	N/A

#### Technical Document

Useful luminous flux	500
On-mode Power (P <sub>on</sub> )	4.1 W
Beam angle in degrees for directional light sources (DLS)	100
Peak luminous intensity in cd for directional light sources (DLS)	210
Correlated Colour Temperature	4000 K
Chromaticity coordinates (x,y)	0.38, 0.38
Colour Rendering Index (CRI)	Ra 80
Standby Power (P <sub>sb</sub> )	N/A
Networked Standby Power (P <sub>net</sub> )	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	0.958
Indicative lifetime L70B50 for LED and OLED light sources	25000
Displacement Factor (cos φ1)	0.9
Colour Consistency	SDCM ≤ 6
Luminance for HLLS	N/A
Flicker metric (PstLM)	1
Stroboscopic effect metric (SVM)	0.4
Excitation purity for CTLS	N/A
Weighted Energy Consumption	5 kWh/1000hrs
Energy Efficiency Class	E
Outer dimensions in mm	
Height	51
Width	83
Depth	83
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  $\eta_{TM}$ , which is calculated by dividing the declared useful luminous flux  $\Phi_{use}$  (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 $\eta_{TM}$ (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](http://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)
FOB78400v0	SOB784v0840	DC72	250
FOB78400v0-ms	SOB784v0840	DC72	250
FOB78400v0-em	SOB784v0840	DC 72	250
FOB78400v0-em/ms	SOB784v0840	DC 72	250
FOB78500v0	SOB785v0840	DC 108	250
FOB78500v0-ms	SOB785v0840	DC 108	250
FOB78500v0-em	SOB785v0840	DC 108	250
FOB78500v0-em/ms	SOB785v0840	DC 108	250
FOB78600v0	SOB786v0840	DC 180	175
FOB78600v0-ms	SOB786v0840	DC 180	175
FOB78600v0-em	SOB786v0840	DC 180	175
FOB78600v0-em/ms	SOB786v0840	DC 180	175
FOB79200v0	SOB792v0840	DC 108	250
FOB79200v0-em	SOB792v0840	DC 108	250
FOB79300v0	SOB793v0840	DC 108	350
FOB79300v0-ms	SOB793v0840	DC 108	350
FOB79300v0-em	SOB793v0840	DC 108	350
FOB79300v0-em/ms	SOB793v0840	DC 108	350
FOB79400v0	SOB794v0840	DC 108	480
FOB79400v0-ms	SOB794v0840	DC 108	480
FOB79400v0-em	SOB794v0840	DC 108	480
FOB79400v0-em/ms	SOB794v0840	DC 108	480
FOB78600v1	SOB786v0840	DC 180	175
FOB78600v1-ms	SOB786v0840	DC 180	175
FOB78600v1-em	SOB786v0840	DC 180	175
FOB78600v1-em/ms	SOB786v0840	DC 180	175

Step 1: Loosen the metal clips,Open the difusser



Step 2: Take out the LED module



Step 3: Untie the safety rope



Step 4: Unplug the power cord from Driver



## Step 5: Test the light source module



LED+

LED-