

## SIB764v1840

## TECHNICAL DOCUMENT- LIGHT SOURCE

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

Model identifier	SIB764v1840
Equivalent Models	N/A

## Technical Document

Useful luminous flux	2600
On-mode Power (P <sub>on</sub> )	20.64 W
Beam angle in degrees for directional light sources (DLS)	75
Peak luminous intensity in cd for directional light sources (DLS)	2200
Correlated Colour Temperature	3000/4000 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	0.979
Indicative lifetime L70B50 for LED and OLED light sources	50000
Displacement Factor (cos φ1)	N/A
Colour Consistency	SDCM ≤ 4
Luminance for HLLS	N/A
Flicker metric (PstLM)	N/A
Stroboscopic effect metric (SVM)	N/A
Excitation purity for CTLS	N/A
Weighted Energy Consumption	21 kWh/1000hrs
Energy Efficiency Class	E
Outer dimensions in mm	
Height	100
Width	225
Depth	225
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>

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Removable Light Source			
Model No.	Light Source Model identifier	Input Voltage (V)	Input Current (mA)
FIB76200v1	SIB762v1840	DC76	205
FIB76300v1	SIB763v1840	DC77	480
FIB76400v1	SIB764v1840	DC77	710
FIB76500v1	SIB765v1840	DC78	770
FIB76200v0	SIB762v0840	DC75	125
FIB76300v0	SIB763v0840	DC75	250
FIB76400v0	SIB764v0840	DC76	370
FIB76500v0	SIB765v0840	DC76	480

Step 1: Open the side cover



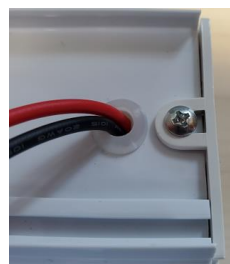
Step 2: Open the module, and remove the terminal






Step 3: Untie the safety rope



Step 4: Remove the side cover



<p>Step 5: Pull out the light source module</p>  <p>The image shows a white rectangular main unit with a light source module attached to its side. The module is connected by red and black wires. A blue arrow points downwards to the next image.</p>  <p>The image shows the light source module, which is a long, thin, white strip with multiple small yellow LEDs mounted on it.</p>	<p>Step 4: led module</p>  <p>The image shows two LED modules. The top module has a red circle around a small component. The bottom module has a red circle around a small component with a '+' sign. Blue arrows point from these circles to the LED- and LED+ labels below.</p> <p>LED-</p> <p>LED+</p>
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