

SOB751v0ds840

TECHNICAL DOCUMENT- LIGHT SOURCE

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

Model identifier	SOB751v0ds840
Equivalent Models	N/A

Technical Document

Useful luminous flux	4590
On-mode Power (Pon)	30 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)	0.382, 0.382
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	0.98
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)	1
Stroboscopic effect metric (SVM)	0.4
Excitation purity for CTLS	N/A
Weighted Energy Consumption	30 kWh/1000hrs
Energy Efficiency Class	D
Outer dimensions in mm	
Height	7.5
Width	15
Depth	927.6
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

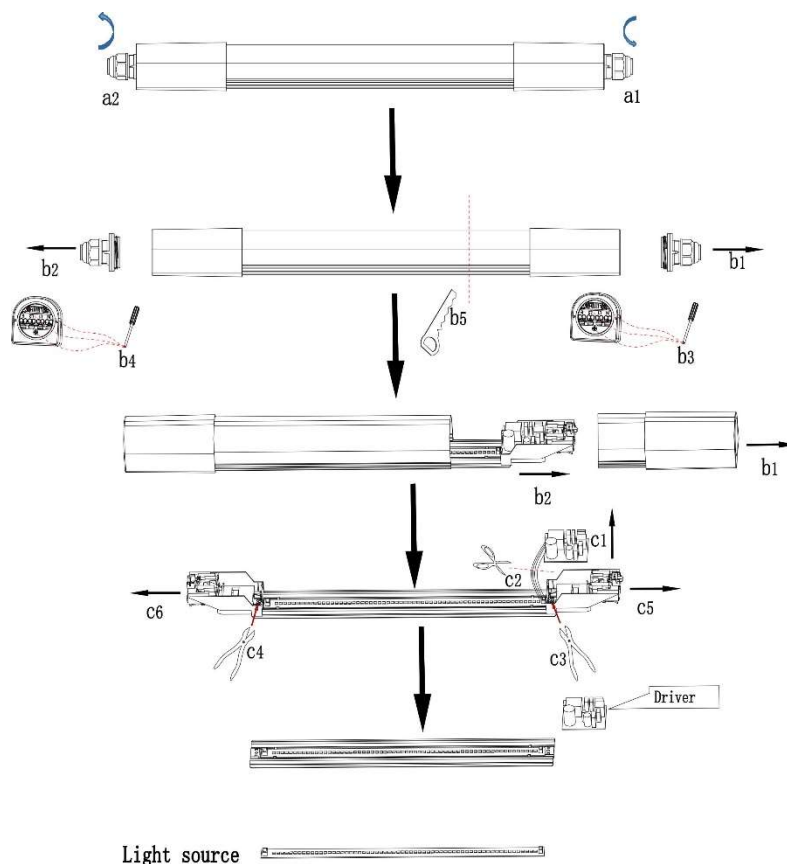
<https://www.megaman.cc/resources/green-room/weee>

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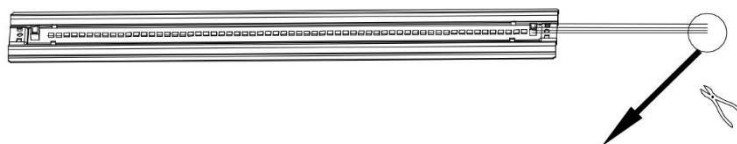


Applicable Light Source Model Identifier	Applicable Containing Product Model Number	Light source Rated Voltage (V)	Light source Input Current (mA)
SOB750v0840	FOB75000v0 4000K	DC 400	38
SOB750v0865	FOB75000v0 6500K	DC 400	38
SOB751v0ds840	FOB75100v0-ds 4000K	DC 400	75
SOB751v0ds865	FOB75100v0-ds 6500K	DC 400	75
SOB752v0ds840	FOB75200v0-ds 4000K	DC 400	115
SOB752v0ds865	FOB75200v0-ds 6500K	DC 400	115

Light source: Removable



Light source



test

LED+ DC input
LED- Constant current

Remarks: The contents is for reference only. Since we are continuously improving all our products, the information listed in this document are subject to change without prior notice. All rated data of technical parameters can only reflect statistical data of entire products and do not necessarily correspond to the actual performance of each single product which could differ from rated data.

Version:A_V1.0

Date:2021/9/11

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