BEGO

MEGAMAN®

SOB747v0840 TECHNICAL DOCUMENT- LIGHT SOURCE

Supplier's name or trade mark:	MEGAMAN GmbH
Supplier's address	Halskestraße 22-26, AircomParc A140880 RatingenGermany
Model identifier	SOB747v0840
Equivalent Models	N/A

Technical Document	
Useful luminous flux	2300
On-mode Power (Pon)	15.2 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	0.97
Indicative lifetime L70B50 for LED and OLED light sources	35000
Displacement Factor (cos φ1)	0
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	16 kWh/1000hrs
Energy Efficiency Class	D
Outer dimensions in mm	
Height	6.5
Width	18
Depth	363
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:

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

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 | 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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 Version 1.2021

Removable Light Source

Model No.	Light source Model identifier	Input Voltage (VDC)	Input Current (mA)
FOB75300v0	SOB747v0840	DC 400	38
FOB75400v0	SOB748v0840	DC 400	75
FOB75500v0	SOB749v0840	DC 400	115
FOB74700v0	SOB747v0840	DC 400	38
FOB74800v0	SOB748v0840	DC 400	75
FOB74900v0	SOB749v0840	DC 400	115