

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

Model identifier	SOB616v1830
Equivalent Models	N/A

Technical Document

Useful luminous flux	6940
On-mode Power (P _{on})	46.8 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	3000 K
Chromaticity coordinates (x,y)	0.431, 0.403
Colour Rendering Index (CRI)	Ra 80
Standby Power (P _{sb})	N/A
Networked Standby Power (P _{net})	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 φ ₁)	0.9
Colour Consistency	SDCM ≤ 6
Luminance for HLLS	N/A
Flicker metric (P _{stLM})	0.8
Stroboscopic effect metric (SVM)	0.4
Excitation purity for CTLS	N/A
Weighted Energy Consumption	47 kWh/1000hrs
Energy Efficiency Class	D
Outer dimensions in mm	
Height	7.5
Width	15
Depth	1404
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

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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Model no.: FOB61400v0-pl, FOB61500v1-pl, FOB61600v1-pl

Light source model identifier: SOB614v0830, SOB614v0840, SOB615v1830, SOB615v1840, SOB616v1830, SOB616v1840

Light source: Removable

SOB614v0830, SOB614v0840	I in: 175mA	U in 100VDC
SOB615v1830, SOB615v1840	I in: 200mA	U in 156VDC
SOB616v1830, SOB616v1840	I in: 260mA	U in 180VDC

