

SDL748v0840

TECHNICAL DOCUMENT- LIGHT SOURCE

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

Model identifier	SDL748v0840
Equivalent Models	N/A

Technical Document

Useful luminous flux	800
On-mode Power (Pon)	9 W
Beam angle in degrees for directional light sources (DLS)	36
Peak luminous intensity in cd for directional light sources (DLS)	2400
Correlated Colour Temperature	4000 K
Chromaticity coordinates (x,y)	0.3836, 0.3897
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	0.96
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)	N/A
Stroboscopic effect metric (SVM)	N/A
Excitation purity for CTLS	N/A
Weighted Energy Consumption	9 kWh/1000hrs
Energy Efficiency Class	F
Outer dimensions in mm	
Height	30
Width	80
Depth	80
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<sub>TM</sub>, which is calculated by dividing the declared useful luminous flux Φ<sub>use</sub> (expressed in lm) by the declared on-mode power consumption P<sub>on</sub> (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 <sub>TM</sub> (lm/W)
A	210 ≤ η <sub>TM</sub>
B	185 ≤ η <sub>TM</sub> < 210
C	160 ≤ η <sub>TM</sub> < 185
D	135 ≤ η <sub>TM</sub> < 160
E	110 ≤ η <sub>TM</sub> < 135
F	85 ≤ η <sub>TM</sub> < 110
G	η <sub>TM</sub> < 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](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)
FDM72300v0	SDM723v0830/SDM723v0840	AC220~240	32
FDL74600v0	SDL746v0830/SDL746v0840	AC220~240	43
FDL74700v0	SDL747v0830/SDL747v0840	AC220~240	62
FDL74800v0	SDL748v0830/SDL748v0840	AC220~240	87
FDL74900v0	SDL749v0830/SDL749v0840	AC220~240	104

Step 1: Remove the diffuser



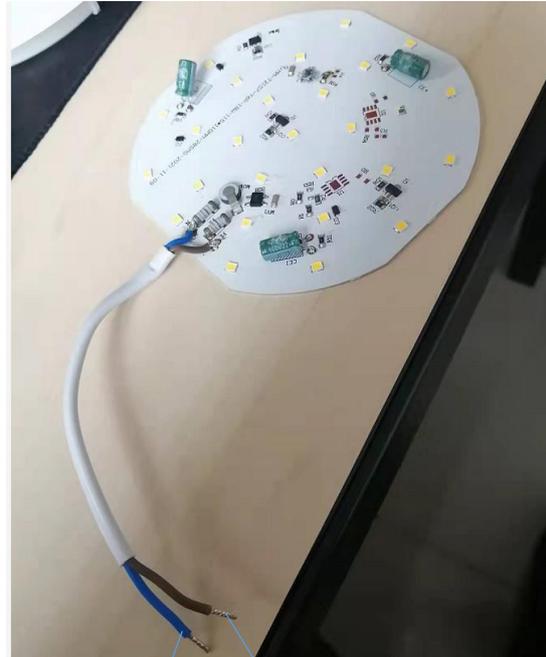
Step 2: Remove the Press button.



Step 3: LOOSEN THE LED MODULE



Step 4: led module



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