

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

Model identifier	SDL758v0840
Equivalent Models	N/A

Technical Document

Useful luminous flux	3100
On-mode Power (P _{on})	19.7 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)	0.38, 0.38
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	0.96
Indicative lifetime L70B50 for LED and OLED light sources	50000
Displacement Factor (cos φ1)	0.9
Colour Consistency	SDCM ≤ 4
Luminance for HLLS	N/A
Flicker metric (P _{stLM})	1
Stroboscopic effect metric (SVM)	0.4
Excitation purity for CTLS	N/A
Weighted Energy Consumption	20 kWh/1000hrs
Energy Efficiency Class	D
Outer dimensions in mm	
Height	2.2
Width	69
Depth	69
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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Applicable Model Identifier	Light Source Model Number	Containing Product	Light source Input Current (mA)	Light source Rated Voltage (V)
SDL757v0830	FDL75700v0		185	DC 84
SDL757v0840	FDL75700v0		185	DC 84
SDL758v0830	FDL75800v0		235	DC 84
SDL758v0840	FDL75800v0		235	DC 84

Light source: Removable

<p>Step1: press the buckle position, Separate ring module from fixture.</p> 	<p>Step2: remove the back cover</p> 	<p>Step3: separate the drive</p> 
<p>Step4: remove the lens</p> 	<p>Step5: Loosen the three screws with a cross screwdriver, and push the PCB to separate the light source</p> 	<p>Step6: light source</p> 