

# AR111

## Reflector Lamps

ER205115/dm/db-HRv00-2B+024D045D+G53+827+AC012

MEGAMAN®

100W/11.5W G53 900/950lm 2700K Ra80 DBT Dimmable

### GENERAL DESCRIPTION

Model Number	ER205115/dm/db-HRv00-2B
Product Code	ER205115/dm/db-HRv00-2B+024D045D+G53+827+AC012
Model Identifier	142620/MM09727
Cap Base	G53
Dimmable	Only with specific dimmers
Working Temperature	-30°C to +40°C

### TECHNICAL PARAMETERS

#### LIFE PERFORMANCE

Indicative Lifetime L70B50 (hrs)	40000	at 25°C
Number of Switching Cycles	> 100000	

#### ELECTRICAL DATA

On-mode Power (W)	11.5
Input Voltage	12 VAC
Frequency	50/60 Hz
Displacement Factor (cos φ1)	N/A
Equivalent Power (W)	100
Standby Power (W)	0.0
Networked Standby Power (W)	N/A
Survival Factor	0.90
Lumen Maintenance Factor	0.96

#### PHOTOMETRIC INFORMATION

Useful Luminous Flux (lm)	1000/1050
Useful Luminous Flux in 90° Cone (lm)	900/950
Useful Luminous Flux in 120° Cone (lm)	N/A
Correlated Colour Temperature (K)	2700
Colour Consistency	4
Colour Rendering Index	80
R9 Colour Rendering Index Value	0
Beam Angle (°)	24/45
Peak Luminous Intensity (cd)	5000/2000
Stroboscopic Effect Metric (SVM)	N/A
Flicker Metric ( $P_{st}^{LM}$ )	N/A
Chromaticity Coordinates (x and y)	0.458 0.410

#### ENERGY EFFICIENCY

Weighted Energy Consumption (kWh/1000hrs)	12
Energy Class	F

### CERTIFICATES & STANDARDS

Standards Compliance	IEC/EN 62560, IEC/EN 62493, IEC/EN 62471, ErP 2019/2020, IEC 62612, IEC CISPR15, EN 55015, IEC/EN 61547, IEC/EN 61000-3-2, IEC/EN 61000-3-3
Approvals	CE, RoHS

### DIMENSIONS & WEIGHT

Height (mm)	58
Width (mm)	111
Depth (mm)	111
Weight (g)	230

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### SPECIFIC PRECAUTIONS - GENERAL GUIDELINES



Dimming not allowed



Lamp suitable for dimming only with specific dimmers  
(A list of compatible dimmers shall be provided on the website  
[www.megaman.cc](http://www.megaman.cc))



Lamp not suitable for use if broken  
(its outer case)



Lamp not suitable for use under dust and moisture

Indoor use only

Turn off the lamp and let it cool down before any replacement

Do not run LED and incandescent lights on a trailer

For lamps with a weight significantly higher than that of the lamps for which they are a replacement, attention should be drawn to the fact that the increased weight may reduce the mechanical stability of certain luminaires and lamp holders and may impair contact making and lamp retention.

### TESTING CONDITIONS

Refer to Annex A of IEC 62612 method of measuring lamp characteristics

Light output and life hour are measured at 25°C, 230V

## CALCULATIONS - GENERAL RULES

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  $\eta_{TM}$ , which is calculated by dividing the declared useful luminous flux  $\Phi_{use}$  (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 $\eta_{TM}$ (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](http://www.megaman.cc)

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