# GX53

## Special Applications

LR209049/dm-OPv00-ND+GX53+827+V0240

41W/4.9W GX53 480lm 2700K Ra80 Non-Dim

### GENERAL DESCRIPTION

| | |
|---|---|
| Model Number | LR209049/dm-OPv00-ND |
| Product Code | LR209049/dm-OPv00-ND+GX53+827+V0240 |
| Model Identifier | 709249/MM09249 |
| Cap Base | GX53 |
| Dimmable | Only with specific dimmers |
| Working Temperature | -30℃ to +40℃ |

### TECHNICAL PARAMETERS

#### LIFE PERFORMANCE

| | |
|---|---|
| Indicative Lifetime L70B50 (hrs) | 25000 at 25°C |
| Number of Switching Cycles | > 100000 |

#### ELECTRICAL DATA

| | |
|---|---|
| On-mode Power (W) | 4.9 |
| Input Voltage | 220-240 VAC |
| Frequency | 50/60 Hz |
| Displacement Factor (cos φ1) | 0.70 |
| Equivalent Power (W) | 41 |
| 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) | 480 |
| Useful Luminous Flux in 90° Cone (lm) | N/A |
| Useful Luminous Flux in 120° Cone (lm) | N/A |
| Correlated Colour Temperature (K) | 2700 |
| Colour Consistency | 6 |
| Colour Rendering Index | 80 |
| R9 Colour Rendering Index Value | 0 |
| Beam Angle (°) | N/A |
| Peak Luminous Intensity (cd) | N/A |
| Stroboscopic Effect Metric (SVM) | 0.4 |
| Flicker Metric ($P_{st}^{LM}$) | 1.0 |
| Chromaticity Coordinates (x and y) | 0.458<br>0.410 |

#### ENERGY EFFICIENCY

| | |
|---|---|
| Weighted Energy Consumption (kWh/1000hrs) | 5 |
| Energy Class | F |

### CERTIFICATES & STANDARDS

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

### DIMENSIONS & WEIGHT

| | |
|---|---|
| Height (mm) | 24 |
| Width (mm) | 75 |
| Depth (mm) | 75 |
| Weight (g) | 32 |

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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)

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:

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

*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

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