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Date: 2025-11-29

Smart Thermal Plastic LED GU10 4.5W

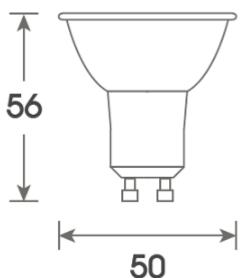
Features

- · Extremely energy saving with low power consumption
- Ideal retrofit of traditional lamps with same appearance / performance / dimensions
- · Vivid and multiple color changing with over 16 million colors
- · Work with both mobile and most common smart home devices via Amazon Alexa, Google Home Assistant and Apple HomeKit
- · Control in a group or individually and customize your own lighting preferences
- · Customize timer schedule to optimize energy efficiency
- · Remote control the lamps from anywhere and anytime
- · Tunable White from 2700K to 6500K
- · Support Matter protocol
- · Smooth dimming range from 1% to 100%
- · Good color rendition, Ra ≥ 80



Diagrams

Dimensions:



Prosperity Lamps & Components Ltd.

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Product Series Datasheet

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Smart Control:







Standards







Applications

Home

Office

Shopping mall

Hotel

皿

Supermarket

Restaurant Gallery



Museum

| Technical Data | |
|-------------------------------------------|---------------------|
| Type of Light Source | |
| Lighting Technology Used | LED |
| Non-directional or Directional [NDLS/DLS] | DLS |
| Mains or Non-mains [MLS/NMLS] | MLS |
| Connected Light Source | Yes |
| Color tunable light source | Yes |
| Envelop [No/Second/Non-Clear] | No |
| High Luminance Light Source | No |
| Anti-glare Shield | No |
| Electrical | |
| Rated Wattage [W] | 4.5W |
| On-mode Power [W] | 4.5W |
| Standby Power [W] | 0.5W |
| Networked Standby Power [W] | 0.5W |
| Rated Voltage [V/Hz] | 220-240Vac, 50/60Hz |
| Power Factor @230V | 0.5 |
| Input Current [mA] @230V | 39 |
| Model | |
| LED-SMT TP GU10 4.5W TW DIM | 4.5W |

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Product Series Datasheet

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| 4.5W 355lm (345lm) Performance SDCM <6 Chromaticity coordinates [x, y] 0.463, 0.42@2700K / 0.312, 0.335@6500K Efficacy [lm/W] 77 Color Rendering Index [Ra] ≥80 80 colour rendering index value 2 Beam Angle [¹] 45 Rated Life, Ta@25°C [hrs] 15,000 Lamp Survival Factor 0.9 Lumen Maintenance 0.93 Number of Switching Cycles Before Failure 7,500 Starting Time [S] <0.5 Varm Up Time [S] <2 Premature Failure At 1000hrs <5% Displacement Factor [cos0] 0.5 Flicker Metric [Pst LM] 1 Stroboscopic Effect Metric [SVM] 0.4 Mechanical 1 Diameter D [mm] Ф50 Height H [mm] 56 Base GU10 Material Thermal Plastic Standard Compliance EN55015, EN61547, EN61000-3-2, EN61000-3-3 CE-EMC EN55015, EN61547, EN61000-3-2, EN61000-3-3 CE-EMF EN62493 Environment RoHS Mercury Content [mg] 0.0 Energy Class F Other 10°C ~ 50°C Storage Tempe | LED-SMT TP GU10 4.5W RGBTW DIM | 4.5W |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|--------------------------------------------|
| Performance SDCM -6 Chromaticity coordinates [x, y] 0.463, 0.42@2700K / 0.312, 0.335@6500K Efficacy [lm/W] 77 Color Rendering Index [Ra] 880 R9 colour rendering index value 2 Beam Angle [¹] 45 Rated Life, Ta@25*C [hrs] 15,000 Lumen Maintenance 0.93 Number of Switching Cycles Before Failure 77,500 Starting Time [S] -0.5 Warm Up Time [S] -2 Premature Failure At 1000hrs 5% Displacement Factor [cosØ] 0.5 Flicker Metric [Pst LM] 1 Stroboscopic Effect Metric [SVM] 0.4 Mechanical Diameter D [mm] 950 Height H [mm] 56 Base GU10 Material Themsel Selection Standard Compliance CF-LVD ENG2560 CF-EMC EN55015, EN61547, EN61000-3-2, EN61000-3-3 CF-EMF EN62493 Environment Recry Class F Chery Class Class F Chery Class Class F Chery Class Class F Chery Class C | Luminous Flux (Useful Luminous Flux) [lm] | |
| SDCM <6 | 4.5W | 355lm (345lm) |
| Chromaticity coordinates [x, y] 0.463, 0.42@2700K / 0.312, 0.335@6500K Efficacy [Im/W] 77 Color Rendering Index [Ra] 880 B9 colour rendering index value 2 Beam Angle [¹] 45 Rated Life, Ta@25°C [hrs] 15,000 Lamp Survival Factor 0.9 Lumen Maintenance 0.93 Number of Switching Cycles Before Failure >7,500 Starting Time [S] <0.5 | Performance | |
| Efficacy [Im/W] 77 Color Rendering Index [Ra] x80 R9 colour rendering index value 2 Beam Angle [*] 45 Rated Life, Ta@25°C [hrs] 15,000 Lamp Survival Factor 0.9 Lumen Maintenance 0.93 Number of Switching Cycles Before Failure >7,500 Starting Time [S] <0.5 | SDCM | <6 |
| Color Rendering Index [Ra] ≥80 R9 colour rendering index value 2 Beam Angle [¹] 45 Rated Life, Ta@25°C [hrs] 15,000 Lamp Survival Factor 0.9 Lumen Maintenance 0.93 Number of Switching Cycles Before Failure >7,500 Starting Time [S] <0.5 | Chromaticity coordinates [x, y] | 0.463, 0.42@2700K / 0.312, 0.335@6500K |
| R9 colour rendering index value 2 Beam Angle [*] 45 Rated Life, Ta@25°C [hrs] 15,000 Lamp Survival Factor 0.9 Lumen Maintenance 0.93 Number of Switching Cycles Before Failure >7,500 Starting Time [s] <0.5 | Efficacy [lm/W] | 77 |
| Beam Angle [*] 45 Rated Life, Ta@25°C [hrs] 15,000 Lamp Survival Factor 0.9 Lumen Maintenance 0.93 Number of Switching Cycles Before Failure >7,500 Starting Time [s] <0.5 | Color Rendering Index [Ra] | ≥80 |
| Rated Life, Ta@25°C [hrs] 15,000 Lamp Survival Factor 0.9 Lumen Maintenance 0.93 Number of Switching Cycles Before Failure >7,500 Starting Time [S] <0.5 | R9 colour rendering index value | 2 |
| Lamp Survival Factor 0.9 Lumen Maintenance 0.93 Number of Switching Cycles Before Failure >7,500 Starting Time [S] <0.5 | Beam Angle [°] | 45 |
| Lumen Maintenance 0.93 Number of Switching Cycles Before Failure >7,500 Starting Time [S] <0.5 | Rated Life, Ta@25°C [hrs] | 15,000 |
| Number of Switching Cycles Before Failure >7,500 Starting Time [S] <0.5 | Lamp Survival Factor | 0.9 |
| Starting Time [S] <0.5 | Lumen Maintenance | 0.93 |
| Warm Up Time [S] <2 | Number of Switching Cycles Before Failure | >7,500 |
| Premature Failure At 1000hrs <5% | Starting Time [S] | <0.5 |
| Displacement Factor [cosØ] 0.5 Flicker Metric [Pst LM] 1 Stroboscopic Effect Metric [SVM] 0.4 Mechanical Diameter D [mm] Φ50 Height H [mm] 56 Base GU10 Material Thermal Plastic Standard Compliance CE-LVD CE-EMC EN55015, EN61547, EN61000-3-2, EN61000-3-3 CE-EMF EN62493 Environment RoHS Mercury Content [mg] 0.0 Energy Class F Other Dimmable [Y/N] Dimmable [Y/N] Y Operation Temperature -20°C ~ 50°C Storage Temperature -10°C ~ 30°C Claim of Equivalent Power, 4.5W [W] 50W | Warm Up Time [S] | <2 |
| Flicker Metric [Pst LM] 1 Stroboscopic Effect Metric [SVM] 0.4 Mechanical | Premature Failure At 1000hrs | <5% |
| Stroboscopic Effect Metric [SVM] 0.4 Mechanical →50 Diameter D [mm] ⊅50 Height H [mm] 56 Base GU10 Material Thermal Plastic Standard Compliance EN62560 CE-LVD EN55015, EN61547, EN61000-3-2, EN61000-3-3 CE-EMC EN55015, EN61547, EN61000-3-2, EN61000-3-3 CE-EMF EN62493 Environment RoHS Mercury Content [mg] 0.0 Energy Class F Other Ummable [Y/N] Dimmable [Y/N] Y Operation Temperature -20°C ~ 50°C Storage Temperature -10°C ~ 30°C Claim of Equivalent Power, 4.5W [W] 50W | Displacement Factor [cosØ] | 0.5 |
| Mechanical Diameter D [mm] Φ50 Height H [mm] 56 Base GU10 Material Thermal Plastic Standard Compliance EN62560 CE-LVD EN62560 CE-EMC EN55015, EN61547, EN61000-3-2, EN61000-3-3 CE-EMF EN62493 Environment RoHS Mercury Content [mg] 0.0 Energy Class F Other V Dimmable [Y/N] Y Operation Temperature -20°C ~ 50°C Storage Temperature -10°C ~ 30°C Claim of Equivalent Power, 4.5W [W] 50W | Flicker Metric [Pst LM] | 1 |
| Diameter D [mm] Φ50 Height H [mm] 56 Base GU10 Material Thermal Plastic Standard Compliance EN62560 CE-LVD EN62560 CE-EMC EN55015, EN61547, EN61000-3-2, EN61000-3-3 CE-EMF EN62493 Environment RoHS Mercury Content [mg] 0.0 Energy Class F Other V Operation Temperature -20°C ~ 50°C Storage Temperature -10°C ~ 30°C Claim of Equivalent Power, 4.5W [W] 50W | Stroboscopic Effect Metric [SVM] | 0.4 |
| Height H [mm] 56 Base GU10 Material Thermal Plastic Standard Compliance EN62560 CE-LVD EN55015, EN61547, EN61000-3-2, EN61000-3-3 CE-EMC EN55015, EN61547, EN61000-3-2, EN61000-3-3 CE-EMF EN62493 Environment RoHS Mercury Content [mg] 0.0 Energy Class F Other Y Operation Temperature -20°C ~ 50°C Storage Temperature -10°C ~ 30°C Claim of Equivalent Power, 4.5W [W] 50W | Mechanical | |
| Base GU10 Material Thermal Plastic Standard Compliance CE-LVD EN62560 CE-EMC EN55015, EN61547, EN61000-3-2, EN61000-3-3 CE-EMF EN62493 Environment RoHS Mercury Content [mg] 0.0 Energy Class F Other Dimmable [Y/N] Y Operation Temperature -20°C ~ 50°C Storage Temperature -10°C ~ 30°C Claim of Equivalent Power, 4.5W [W] 50W | Diameter D [mm] | Ф50 |
| Material Thermal Plastic Standard Compliance CE-LVD EN62560 CE-EMC EN55015, EN61547, EN61000-3-2, EN61000-3-3 CE-EMF EN62493 Environment RoHS Mercury Content [mg] 0.0 Energy Class F Other Dimmable [Y/N] Y Operation Temperature -20°C ~50°C Storage Temperature -10°C ~ 30°C Claim of Equivalent Power, 4.5W [W] 50W | Height H [mm] | 56 |
| Standard Compliance CE-LVD EN62560 CE-EMC EN55015, EN61547, EN61000-3-2, EN61000-3-3 CE-EMF EN62493 Environment RoHS Mercury Content [mg] 0.0 Energy Class F Other F Dimmable [Y/N] Y Operation Temperature -20°C ~ 50°C Storage Temperature -10°C ~ 30°C Claim of Equivalent Power, 4.5W [W] 50W | Base | GU10 |
| CE-LVD EN62560 CE-EMC EN55015, EN61547, EN61000-3-2, EN61000-3-3 CE-EMF EN62493 Environment RoHS Mercury Content [mg] 0.0 Energy Class F Other Y Dimmable [Y/N] Y Operation Temperature -20°C ~ 50°C Storage Temperature -10°C ~ 30°C Claim of Equivalent Power, 4.5W [W] 50W | Material | Thermal Plastic |
| CE-EMC EN55015, EN61547, EN61000-3-2, EN61000-3-3 CE-EMF EN62493 Environment RoHS Mercury Content [mg] 0.0 Energy Class F Other Y Operation Temperature -20°C ~ 50°C Storage Temperature -10°C ~ 30°C Claim of Equivalent Power, 4.5W [W] 50W | Standard Compliance | |
| CE-EMFEN62493EnvironmentRoHSMercury Content [mg]0.0Energy ClassFOtherVDimmable [Y/N]YOperation Temperature-20°C ~ 50°CStorage Temperature-10°C ~ 30°CClaim of Equivalent Power, 4.5W [W]50W | CE-LVD | EN62560 |
| Environment RoHS Mercury Content [mg] 0.0 Energy Class F Other Dimmable [Y/N] Y Operation Temperature -20°C ~ 50°C Storage Temperature -10°C ~ 30°C Claim of Equivalent Power, 4.5W [W] 50W | CE-EMC | EN55015, EN61547, EN61000-3-2, EN61000-3-3 |
| Mercury Content [mg] 0.0 Energy Class F Other V Dimmable [Y/N] Y Operation Temperature -20°C ~ 50°C Storage Temperature -10°C ~ 30°C Claim of Equivalent Power, 4.5W [W] 50W | CE-EMF | EN62493 |
| Energy Class F Other Dimmable [Y/N] Y Operation Temperature -20°C ~ 50°C Storage Temperature -10°C ~ 30°C Claim of Equivalent Power, 4.5W [W] 50W | Environment | RoHS |
| Other Dimmable [Y/N] Y Operation Temperature -20°C ~ 50°C Storage Temperature -10°C ~ 30°C Claim of Equivalent Power, 4.5W [W] 50W | Mercury Content [mg] | 0.0 |
| Dimmable [Y/N]YOperation Temperature $-20^{\circ}\text{C} \sim 50^{\circ}\text{C}$ Storage Temperature $-10^{\circ}\text{C} \sim 30^{\circ}\text{C}$ Claim of Equivalent Power, 4.5W [W]50W | Energy Class | F |
| Operation Temperature -20°C ~ 50°C Storage Temperature -10°C ~ 30°C Claim of Equivalent Power, 4.5W [W] 50W | Other | |
| Storage Temperature -10°C ~ 30°C Claim of Equivalent Power, 4.5W [W] 50W | Dimmable [Y/N] | Υ |
| Claim of Equivalent Power, 4.5W [W] 50W | Operation Temperature | -20°C ~ 50°C |
| · | Storage Temperature | -10°C ~ 30°C |
| Energy Consumption in on-mode [kWh/1000h] 5kWh | Claim of Equivalent Power, 4.5W [W] | 50W |
| | Energy Consumption in on-mode [kWh/1000h] | 5kWh |