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Paulmann 283.25

Paulmann 28325 LED Diamond Quadro GU5.3 12V 2700K Instruction Manual

Model: 283.25

1. INTRODUCTION AND PRODUCT OVERVIEW

This manual provides essential information for the safe and efficient use of your Paulmann 28325 LED Diamond Quadro lamp. This product is a 3-watt LED lamp designed for 12-volt systems, featuring a GU5.3 base and emitting a warm white light at 2700 Kelvin. Its unique crystal reflector design provides directed illumination.



Image 1.1: The Paulmann 28325 LED Diamond Quadro GU5.3 lamp.

2. SAFETY INSTRUCTIONS

Please read and understand all safety instructions before installing or operating the lamp. Failure to follow these instructions may result in electric shock, fire, or other hazards.

- **Electrical Safety:** Always disconnect power to the fixture before installing, removing, or servicing the lamp.
- **Voltage Compatibility:** This lamp operates on a **12-volt DC** power supply. Do not connect it to a 230-volt AC mains supply without a suitable transformer.
- **Non-Dimmable:** This LED lamp is **not dimmable**. Do not use it with dimmer switches, as this can damage the lamp and void the warranty.
- **IP20 Rating:** The lamp has an IP20 rating, meaning it is protected against solid objects larger than 12.5mm but has no protection against water. Use only in dry, indoor environments.

- **Temperature:** Ensure adequate ventilation around the lamp to prevent overheating. Do not cover the lamp.
- **Disassembly:** Do not attempt to disassemble, modify, or repair the lamp. There are no user-serviceable parts inside.
- **Disposal:** Dispose of the lamp according to local regulations for electronic waste.

3. SETUP AND INSTALLATION

Follow these steps to properly install your Paulmann 28325 LED Diamond Quadro lamp:

1. **Power Disconnection:** Ensure the power supply to the lighting fixture is completely switched off at the main circuit breaker before beginning installation.
2. **Identify Socket:** Verify that your fixture has a compatible GU5.3 socket. The GU5.3 base features two pins spaced 5.3mm apart.
3. **Insert Lamp:** Carefully align the two pins of the LED lamp with the holes in the GU5.3 socket. Gently push the lamp into the socket until it is securely seated. Do not force the lamp.
4. **Power Supply:** Ensure the fixture is connected to a stable 12-volt DC power supply. If replacing a halogen lamp, ensure the existing transformer is compatible with LED loads.
5. **Restore Power:** Once the lamp is securely installed, restore power to the fixture at the main circuit breaker.

230 V



E27

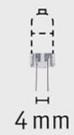


E14

12 V



GU4



G4



GU10



COIN



G9



GU5,3



GY6,35

Image 3.1: Close-up of the GU5.3 LED lamp, showing the base pins.

Augenschonendes Licht

Unsere Komfortkriterien



Minimierte Flimmer- und Stroboskopeffekte



Farbkonsistent



Hohe Farbwiedergabe



Minimaler Blaulicht,
UV- und Infrarotanteil

Image 3.2: Diagram showing different lamp base types, including GU5.3 (12V section).

4. OPERATING INSTRUCTIONS

Operating the Paulmann 28325 LED Diamond Quadro lamp is straightforward:

- **Switch On/Off:** Use the standard wall switch or fixture switch to turn the lamp on or off.
- **Light Output:** The lamp provides a directed, warm white light (2700K) suitable for accent lighting or general illumination in appropriate fixtures.
- **Non-Dimmable:** As stated previously, this lamp is not designed for dimming. Attempting to dim it may cause flickering, damage, or premature failure.

5. MAINTENANCE

The Paulmann 28325 LED Diamond Quadro lamp requires minimal maintenance due to its long lifespan and durable design.

- **Cleaning:** To clean the lamp, ensure the power is off and the lamp is cool. Gently wipe the surface with a soft, dry, lint-free cloth. Do not use liquid cleaners, abrasive materials, or solvents, as these can

damage the lamp's finish or internal components.

- **Lamp Replacement:** The lamp has an average lifespan of 15,000 hours. When it reaches the end of its life, replace it with a new Paulmann 28325 LED Diamond Quadro lamp or a compatible GU5.3 12V LED lamp.
- **No User-Serviceable Parts:** The lamp contains no user-serviceable parts. Do not attempt to open or repair it.

6. TROUBLESHOOTING

If you encounter issues with your Paulmann 28325 LED Diamond Quadro lamp, refer to the following troubleshooting guide:

- **Lamp Does Not Light Up:**
 - Ensure the power supply to the fixture is on.
 - Check that the lamp is correctly and securely seated in the GU5.3 socket.
 - Verify that the power supply is providing 12 volts DC. An incompatible or faulty transformer can prevent the lamp from working.
 - Inspect the lamp for any visible damage. If damaged, replace the lamp.
- **Lamp Flickers:**
 - Confirm that the lamp is not connected to a dimmer switch. This lamp is non-dimmable.
 - Check the 12V DC power supply for stability. Fluctuations in voltage can cause flickering.
 - Ensure the transformer is compatible with LED loads. Some older transformers designed for halogen lamps may not work correctly with LEDs.
- **Light Output is Weak or Incorrect Color:**
 - Verify the lamp specifications match your requirements (e.g., 2700K warm white).
 - Ensure the lamp is receiving the correct 12V DC voltage. Under-voltage can reduce light output.

If these steps do not resolve the issue, please contact Paulmann customer support.

7. SPECIFICATIONS

Detailed technical specifications for the Paulmann 28325 LED Diamond Quadro lamp:

Feature	Specification
Brand	Paulmann
Model Number	283.25
Lamp Type	LED
Base Type	GU5.3
Voltage	12 Volt
Wattage	3 Watt
Luminous Flux	250 Lumen

Feature	Specification
Color Temperature	2700 Kelvin (Warm White)
Color Rendering Index (CRI)	80
Beam Angle	36 degrees
Lifespan	15,000 hours
Dimensions (L x W x H)	3.7 x 3.7 x 5 cm
Diameter	37 Millimeter
Length	50 Millimeter
IP Rating	IP20
Dimmable	No
Energy Efficiency Class	G
Energy Consumption	3 kWh/1000h
Material	Glass



Image 7.1: EU Energy Label for Paulmann 28325.

Produktdatenblatt



Name oder Handelsmarke des Lieferanten:		Paulmann Licht GmbH	
Anschrift des Lieferanten:		Quezinger Feld 2, DE-31832 Springe-Völksen	
Modellkennung:		28325	
Lichtquellentyp:		Andere als aufgezählt	
Verwendete Beleuchtungstechnologie:	Andere als aufgezählt	Ungebündeltes oder gebündeltes Licht:	NDLS
Sockeltyp (oder sonstige elektrische Schnittstelle):	GU5,3		
Netzspannung/Nicht direkt an die Netzspannung angeschlossen:	NMLS	Vernetzte Lichtquelle (CLS):	nein
Farblich abstimmbare Lichtquelle:	nein	Hülle:	keine Hülle
Lichtquelle mit hoher Leuchtdichte:	nein		
Blendschutzschild:	nein	Dimmbar:	nein
Produktparameter			
Parameter	Wert	Parameter	Wert
Allgemeine Produktparameter:			
Energieverbrauch im Ein-Zustand (kWh/1 000 h), auf die nächstliegende ganze Zahl aufgerundet	3	Energieeffizienzklasse:	G
Nutzlichtstrom (Φ_{se}) mit der Angabe, ob sich der Wert auf den Lichtstrom in einer Kugel (360°), einen breiten Kegel (120°) oder einen schmalen Kegel (90°) bezieht.	250 bei 360°	Ähnliche Farbtemperatur (gerundet auf die nächstliegenden 100K) oder Spanne der einstellbaren ähnlichen Farbtemperaturen (gerundet auf die nächstliegenden 100K)	2.700
Leistungsaufnahme im EIN-Zustand (Pon) in W	3	Leistungsaufnahme im Bereitschaftszustand (Psb) in W, auf zwei Dezimalstellen gerundet	
Leistungsaufnahme im vernetzten Bereitschaftsbetrieb (Pnet) in W auf zwei Dezimalstellen gerundet		Farbwiedergabeindex, auf die nächstliegende ganze Zahl gerundet, oder Spanne der einstellbaren CRI-Werte	
Äußere Abmessungen in mm, ggf. ohne separates Betriebsgerät, Beleuchtungssteuerungsteile und Nicht-Beleuchtungsteile	Höhe	50	Spektrale Strahlungsverteilung im Bereich 250 nm bis 800 nm bei Volllast
	Breite	37	
	Tiefe	37	
Angabe, ob äquivalente Leistungsaufnahme	nein	Falls ja, Wert der äquivalenten Leistungsaufnahme (W)	
	Farbwertanteile (x und y)		
Parameter für Lichtquellen mit gebündeltem Licht:			
Spitzenlichtstärke (cd)		Halbwertswinkel in Grad oder Spanne der einstellbaren Halbwertswinkel	
Parameter für LED- und OLED-Lichtquellen:			
Wert des R9-Farbwiedergabeindex:		Lebensdauerfaktor	
Lichtstromerhalt	82		
Parameter für LED- und OLED-Netzspannungslichtquellen:			
Verschiebungsfaktor ($\cos\phi_1$)	0,7	Farbkonsistenz in MacAdam-Ellipsen	≤ 6 Step Mac Adam Ellipse
Angabe, ob die LED-Lichtquelle eine Leuchtstofflichtquelle ohne eingebautes Vorschaltgerät mit einer bestimmten Leistungsaufnahme ersetzt.	nein	Falls ja, Wert der ersetzten Leistung (W)	
Flimmer-Messgröße (PstLM)		Messgröße für Stroboskopeffekte (SVM)	

Image 7.2: Product data sheet with detailed specifications.

For more detailed product information, you can refer to the EPREL database:

<https://eprel.ec.europa.eu/qr/860106>

8. WARRANTY AND SUPPORT

Paulmann products are manufactured to high-quality standards. For warranty information and customer support, please refer to the official Paulmann website or contact your retailer.

Keep your purchase receipt as proof of purchase for any warranty claims.