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› Rolux DF-9251B-2 Recessed LED Lamp Instruction Manual

Rolux DF-9251B-2

Rolux DF-9251B-2 Recessed LED Lamp Instruction Manual

1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your Rolux DF-9251B-2 Recessed LED Lamp. Please read these instructions carefully before installation and retain them for future reference. This product is designed for indoor use in dry environments (IP20) and requires a DC LED safety converter for operation.

2. SAFETY INSTRUCTIONS

- **Electrical Safety:** Installation must be performed by a qualified electrician in accordance with local electrical codes. Ensure the power supply is disconnected before installation or maintenance.
- **Power Supply:** This lamp operates on 10-20V DC and requires a suitable DC LED safety converter (not included). Do not connect directly to mains voltage (230V AC).
- **Environment:** This product has an IP20 rating, meaning it is protected against solid objects larger than 12.5mm but has no protection against water. Do not install in wet or damp locations.
- **Heat:** Ensure adequate ventilation around the lamp to prevent overheating.
- **Lamp Replacement:** Only replace the G4 LED lamp with a compatible 10-20V DC G4 LED lamp.
- **Damage:** Do not use the lamp if any part is damaged. Contact customer support for assistance.

3. PACKAGE CONTENTS

Verify that all components are present and undamaged:

- 1x Rolux DF-9251B-2 Recessed LED Lamp (with integrated G4 LED bulb)
- 1x 1.8m Power Cable with Mini-Plug (black)

Note: A DC LED safety converter is required for operation and is not included in the package.

4. INSTALLATION INSTRUCTIONS

Follow these steps for proper installation of your recessed LED lamp:

4.1 Prepare the Installation Area

1. **Disconnect Power:** Ensure the main power supply to the installation area is switched off at the circuit breaker.
2. **Drill Hole:** Using a suitable hole saw, drill a circular opening with a diameter of **58 mm** in the desired mounting surface. Ensure there is sufficient clearance behind the surface for the lamp body (minimum installation depth 19 mm).

4.2 Wiring the Lamp

The lamp comes with a 1.8m power cable terminated with a mini-plug. This plug connects to a compatible DC LED safety converter (not supplied). The converter must provide 10-20V DC output.



Figure 1: Rear view of the lamp with mounting clips and power cable.

3. **Connect to Converter:** Connect the mini-plug of the lamp's power cable to the output of your DC LED safety converter. Ensure polarity is correct if the converter requires it.
4. **Converter Installation:** Install the DC LED safety converter according to its own instructions, ensuring it is in a dry, well-ventilated area.

4.3 Mounting the Lamp



Figure 2: Front view of the recessed LED lamp.

5. **Insert Lamp:** Gently push the lamp body into the drilled 58 mm hole. The spring-loaded mounting clips on the sides of the lamp will secure it in place.
6. **Final Check:** Ensure the lamp is flush with the mounting surface and securely held.
7. **Restore Power:** Once installation is complete and all connections are secure, restore power at the circuit breaker. The lamp should illuminate.

5. OPERATING INSTRUCTIONS

The Rolux DF-9251B-2 Recessed LED Lamp is designed for simple operation.

- **Power On/Off:** The lamp is controlled by the switch connected to the DC LED safety converter's input (mains side). Switching this power source on or off will turn the lamp on or off.
- **Non-Dimmable:** This specific model is **not dimmable**. Do not connect it to a dimmer switch unless the DC LED safety converter explicitly supports dimming and is compatible with this lamp.

6. MAINTENANCE

The Rolux DF-9251B-2 LED lamp requires minimal maintenance.

- **Cleaning:** Disconnect power before cleaning. Wipe the lamp's surface with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **G4 LED Lamp Replacement:** The G4 LED lamp inside the fixture is replaceable. To replace, carefully remove the glass cover, then gently pull out the G4 LED bulb. Insert a new, compatible 10-20V DC G4 LED bulb and reattach the glass cover. Ensure power is disconnected during this process.



Figure 3: Close-up view of the replaceable G4 LED lamp.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
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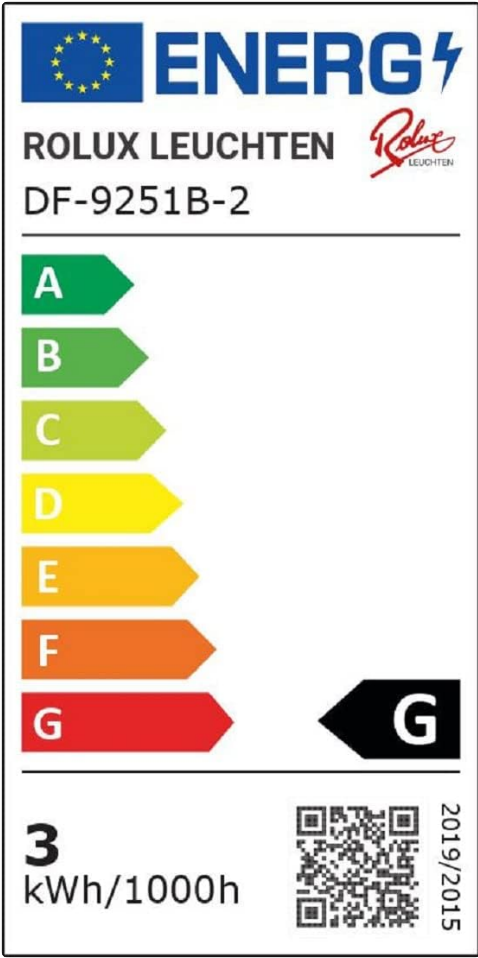
Problem	Possible Cause	Solution
Lamp does not light up.	No power supply. Faulty DC LED safety converter. Incorrect wiring. Faulty G4 LED lamp.	Check power switch and circuit breaker. Verify converter is working correctly. Recheck all wiring connections. Replace G4 LED lamp.
Lamp flickers.	Unstable power supply. Incompatible DC LED safety converter. Loose connection.	Ensure stable 10-20V DC input. Use a compatible, high-quality DC LED safety converter. Check all wiring connections.
Lamp is too dim.	Insufficient voltage from converter. Faulty G4 LED lamp.	Ensure converter provides adequate voltage (10-20V). Replace G4 LED lamp.

If the problem persists after trying these solutions, please contact customer support.

8. TECHNICAL SPECIFICATIONS

Feature	Specification
Model Number	DF-9251B-2 (9251-2)
Brand	Rolux
Type	Recessed LED Lamp
Power Consumption	2.5 W
Nominal Voltage	10-20 V DC
Light Color	Warm White
Color Temperature	3000 K
Luminous Flux	252 lm
Color Rendering Index (CRI)	>80 Ra
Beam Angle	110°
LED Type	12x 2835 SMD LEDs
Lamp Base	G4 (replaceable)
Lifespan	50,000 hours
Switching Cycles	10,000x
Material	Metal (stainless steel look), Glass
Finish	Matte Chrome

Feature	Specification
Drill Hole Diameter	58 mm
Outer Diameter	65 mm
Installation Depth	19 mm
Installation Height (above surface)	1.5 mm
Protection Class	IP20
Safety Class	III
Cable Length	1.8 m (with mini-plug)
Energy Efficiency Class	G



Produktdatenblatt			
DELEGIERTE VERORDNUNG (EU) 2019/2015 DER KOMMISSION zur Energieverbrauchskennzeichnung von Lichtquellen			
Name oder Handelsmarke des Lieferanten: Rolux			
Anschrift des Lieferanten: Verkauf, Margarete Steiff Straße 18, 28844 Weyhe, DE			
Modellkennung: DF-9251B-2			
Art der Lichtquelle:			
Verwendete Beleuchtungstechnologie:	LED	Ungebündelt oder gebündelt:	DLS
Art des Sockels der Lichtquelle (oder andere elektrische Schnittstelle)	G4		
Netzspannung/Nicht direkt an die Netzspannung angeschlossen:	NMLS	Vernetzte Lichtquelle (CLS):	Nein
Farblich abstimmbare Lichtquelle:	Nein	Hülle:	-
Lichtquelle mit hoher Leuchtdichte:	Nein		
Blendschutzschild:	Nein	Dimmbar:	Nein
Produktparameter			
Parameter	Wert	Parameter	Wert
Allgemeine Produktparameter:			
Energieverbrauch im Ein-Zustand (kWh/1000 h), auf die nächstliegende ganze Zahl gerundet	3	Energieeffizienzklasse	G
Nutzlichtstrom (lm) mit Angabe, ob sich der Wert auf den Lichtstrom in einer Kugel (360°), in einem breiten Kegel (120°) oder in einem schmalen Kegel (90°) bezieht	220 in breiter Kegel (120°)	ähnliche Farbtemperatur, gerundet auf die nächstliegenden 100 K, oder Spanne der einstellbaren Farbtemperaturen, gerundet auf die nächstliegenden 100 K	3 000
Leistungsaufnahme im Ein-Zustand (P _{on}) in W	3,0	Leistungsaufnahme im Bereitschaftszustand (P _s) in W, auf die zweite Dezimalstelle gerundet	0,00
Leistungsaufnahme im vernetzten Bereitschaftsbetrieb (P _{on}) für CLS in W, auf die zweite Dezimalstelle gerundet	-	Farbwiedergabeindex auf die nächstliegende ganze Zahl gerundet, oder Spanne der einstellbaren CRI-Werte	80
äußere Abmessungen, ggf. ohne separates Betriebsgerät, Beleuchtungs- und Nicht-Beleuchtungsstelle (Millimeter)	Höhe: 19 Breite: 65 Tiefe: 19	Spektrale Strahlungsverteilung im Bereich 250 nm bis 800 nm bei Volllast	Siehe Bild auf letzter Seite
Angabe zu einer gleichwertigen Leistungsaufnahme ^(a)	-	Falls gleichwertige Leistungsaufnahme (W)	ja, -
		Farbwertanteile (x und y)	0,440 0,403
Parameter für Lichtquellen mit gebündeltem Licht:			
Spitzenlichtstärke (cd)	100	Halbwertswinkel in Grad oder Spanne der einstellbaren Halbwertswinkel	120
Parameter für LED- und OLED-Lichtquellen:			
Wert des Farbwiedergabeindex	R9- 8	Lebensdauerfaktor	1,00
Lichtstromerhalt	0,96		

Figure 4: Energy label and product data sheet for the Rolux DF-9251B-2. For more details, refer to the [EPREL database](#).

9. WARRANTY AND SUPPORT

Rolux products are manufactured to high-quality standards. For information regarding warranty terms and conditions, please refer to the purchase documentation or contact your retailer. For technical support or inquiries, please contact Rolux customer service through their official website or your point of purchase.

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Question

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Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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