Philips LED 456979

Philips LED Dimmable BR20 Soft White Light Bulb

Model: 456979 | Brand: Philips LED

1. Introduction

The Philips BR20 LED light bulbs with Warm Glow Effect are designed to provide high-quality, soft white light while offering significant energy savings. These bulbs are an ideal replacement for traditional 45-Watt incandescent bulbs, consuming 80% less energy. Featuring a standard medium base (E26), they seamlessly integrate into existing fixtures, providing a classic bulb appearance with modern LED technology.

The unique Warm Glow dimming feature allows the light to transition from 2700 Kelvin to a warmer 2200 Kelvin as it dims, mimicking the familiar effect of traditional incandescent bulbs. This ensures a comfortable and inviting ambiance at any brightness level. Philips LEDs are Energy Star Certified, mercury-free, and built for long-lasting performance, reducing the need for frequent replacements.



Image 1.1: Philips BR20 LED Dimmable Light Bulb

2. Product Features

- **Warm Glow Effect:** Dims from 2700 Kelvin (soft white) to 2200 Kelvin (warm glow), creating a cozy atmosphere.
- **Energy Efficient:** Provides 450 lumens of light while consuming only 6-Watts, equivalent to a 45-Watt incandescent bulb.
- **Flicker-Free Dimming:** Engineered for smooth, silent dimming compatible with a wide range of dimmer switches.
- **Long Lifespan:** Designed to last up to 25,000 hours, or over 20 years based on typical usage (3 hours/day).
- **Standard Base:** Features an E26 medium base for easy installation in common fixtures.
- **Mercury-Free:** Environmentally friendly design, free from hazardous mercury.
- **Energy Star Certified:** Meets strict energy efficiency guidelines set by the EPA.
- **Indoor Use:** Specifically designed for indoor applications, fitting 4-inch recessed can light fixtures.
- **Note:** These bulbs are not compatible with Philips HUE products.

3. Setup

1. **Power Off:** Before installation, ensure the power to the light fixture is turned off at the circuit breaker or wall switch to prevent electrical shock.
2. **Remove Old Bulb:** Carefully unscrew the existing light bulb from the fixture. Allow it to cool if it has been recently in use.
3. **Install New Bulb:** Gently screw the Philips BR20 LED bulb into the E26 medium base socket until it is finger-tight. Do not overtighten.
4. **Power On:** Restore power to the light fixture at the circuit breaker or wall switch.
5. **Test:** Turn on the light switch to confirm the bulb is functioning correctly.

For optimal performance, ensure the fixture is rated for the bulb's wattage and that any dimmer switches are compatible with LED technology.

4. Operating Instructions

The Philips BR20 LED bulb is designed for simple operation, functioning like a traditional light bulb. Its primary advanced feature is the Warm Glow dimming effect.

Dimming with Warm Glow Effect

When connected to a compatible dimmer switch, these bulbs will change their color temperature as they are

dimmed. At full brightness, the light is a soft white (2700 Kelvin). As you dim the light, the color temperature gradually shifts to a warmer, more inviting glow (down to 2200 Kelvin), similar to how incandescent bulbs behave. Ensure your dimmer switch is designed for LED compatibility to experience the full range of dimming and the Warm Glow effect without flickering or buzzing.

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Video 4.1: Demonstration of Philips LED Warm Glow Effect and Dimming
This video illustrates how Philips LED bulbs with Warm Glow effect change color temperature when dimmed, compared to standard LED bulbs.

5. Maintenance

Philips LED BR20 bulbs require minimal maintenance due to their long lifespan and durable design.

Cleaning

To clean the bulb, ensure the power to the fixture is turned off and the bulb has cooled completely. Use a soft, dry cloth to gently wipe the surface of the bulb. Do not use liquid cleaners, abrasive cleaners, or solvents, as these can damage the bulb's finish or internal components.

Replacement

These LED bulbs are designed for a long operational life. If a bulb needs replacement, follow the installation steps outlined in Section 3. Setup. Always replace with a bulb of similar specifications to maintain consistent lighting quality.

6. Troubleshooting

If you encounter issues with your Philips BR20 LED bulb, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Bulb does not light up.	No power to fixture, loose connection, faulty bulb.	Check circuit breaker and wall switch. Ensure bulb is screwed in tightly. Test bulb in another working fixture.
Bulb flickers or buzzes.	Incompatible dimmer switch, loose connection, circuit overload.	Ensure dimmer is LED-compatible. Tighten bulb. Consult an electrician if flickering persists or if multiple bulbs are on the same circuit.
Dimming range is limited or inconsistent.	Incompatible dimmer switch, dimmer not calibrated for LED.	Verify your dimmer switch is specifically designed for LED bulbs. Some dimmers have adjustment screws for calibration.
Light color does not change when dimmed.	Bulb is not a Warm Glow model, or dimmer is not fully compatible.	Confirm you have the Philips BR20 with Warm Glow Effect. Ensure the dimmer allows for full dimming range.

If these solutions do not resolve the issue, please contact Philips customer support for further assistance.

7. Specifications

Attribute	Value
Brand	Philips LED
Model Number	456979
Light Type	LED
Wattage	6 Watts (5.5 Watts listed in some specifications)
Incandescent Equivalent	45 Watts
Brightness	450 Lumens
Color Temperature	2700 Kelvin (dims to 2200 Kelvin)
Bulb Shape Size	BR20 (R20)
Bulb Base	E26 (Medium)
Voltage	120 Volts
Lifespan	25,000 hours (approx. 20 years)
Finish	Frosted
Indoor/Outdoor Usage	Indoor use only
Certifications	Energy Star
Product Dimensions	2.5"W x 3.9"H

8. Warranty and Support

Warranty Information

This Philips LED Dimmable BR20 Soft White Light Bulb comes with a**3-year warranty**. Please refer to the product packaging for complete details regarding warranty terms and conditions.

Customer Support

For technical assistance, product inquiries, or warranty claims, please visit the official Philips Lighting website or contact their customer support line. Keep your proof of purchase for warranty purposes.
You can find more information and support resources by visiting thePHILIPS Store on Amazon or the official Philips website.

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