

Braytron LD-426-2x

Braytron 12W Warm White LED Recessed Spotlight User Manual (Model LD-426-2x)

Comprehensive instructions for installation, operation, and maintenance.

1. INTRODUCTION

This manual provides detailed instructions for the safe and efficient installation, operation, and maintenance of your Braytron 12W Warm White LED Recessed Spotlights. These ultra-slim LED panels are designed for various indoor applications, offering high luminous power and energy efficiency.

The product features a compact, flat design with a low installation depth, making it suitable for ceilings in living rooms, kitchens, offices, and commercial spaces.

2. SAFETY INFORMATION

- Always disconnect power before installation, maintenance, or cleaning.
- Installation should be performed by a qualified electrician in accordance with local electrical codes.
- Do not modify the product in any way. Unauthorized modifications may void the warranty and pose safety risks.
- Ensure the product is suitable for the intended environment. This product has an IP20 rating, meaning it is protected against solid objects larger than 12.5mm but has no protection against water. It is intended for indoor use only.
- Keep packaging materials out of reach of children.
- Do not look directly into the LED light source when it is illuminated.

3. PACKAGE CONTENTS

The package includes the following components:

- 2 x Braytron 12W Warm White LED Slim Panels
- 2 x Integrated Transformers (pre-mounted)
- 2 x Mounting Clips (pre-mounted)



Figure 1: Braytron 12W Warm White LED Recessed Spotlight (front view).



Figure 2: Rear view of the LED spotlight showing the pre-mounted transformer and spring clips for installation.

4. SETUP AND INSTALLATION

- 1. Preparation:** Ensure the power supply to the installation area is turned off at the main circuit breaker.
- 2. Cut-out:** Create a circular opening in the ceiling with a diameter of approximately 155 mm (6.1 inches). Refer to Figure 3 for detailed dimensions.
- 3. Wiring:** Connect the pre-mounted transformer to the AC 220-240V / 50/60 Hz power supply. Ensure all connections are secure and insulated.
- 4. Mounting:** Gently push the spring-loaded mounting clips on the sides of the spotlight upwards. Insert the spotlight into the prepared ceiling opening. The clips will spring back into place, securing the spotlight firmly against the ceiling.

5. **Final Check:** Once installed, restore power and test the light.

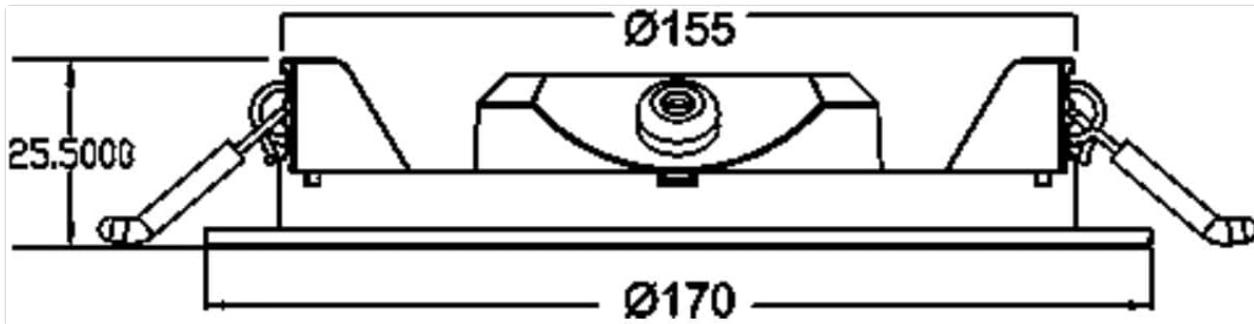


Figure 3: Dimensional drawing. Outer diameter: 172mm, Inner diameter (cut-out): 155mm, Height: 20mm.

5. OPERATING INSTRUCTIONS

The Braytron LED Recessed Spotlight operates by connecting to a standard wall switch. Once properly installed and connected to the power supply, simply use the wall switch to turn the light on or off. The LED panel provides instant full brightness without any warm-up delay.

This product is not dimmable according to the product data sheet (Figure 4).

6. MAINTENANCE

- Cleaning:** Ensure the power is off before cleaning. Use a soft, dry, or slightly damp cloth to wipe the surface of the LED panel. Do not use abrasive cleaners or solvents.
- Inspection:** Periodically check for any visible damage to the light fixture or wiring. If damage is found, disconnect power and consult a qualified technician.
- Lamp Replacement:** The LED light source is integrated and not user-replaceable. The product has a long average lifespan of 30,000 hours.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Light does not turn on.	No power supply. Loose wiring connection. Faulty switch.	Check the circuit breaker. Ensure all wiring connections are secure (with power off). Test the switch or consult an electrician.
Light flickers.	Unstable power supply. Loose connection.	Ensure stable power supply. Check wiring connections (with power off).
Light is dim.	Incorrect voltage. Dust accumulation.	Verify the power supply voltage is 220-240V AC. Clean the surface of the LED panel.

If the problem persists after attempting these solutions, please contact a qualified electrician or the product supplier for assistance.

8. SPECIFICATIONS

Feature	Specification
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Feature	Specification
Brand	Braytron
Model Number	LD-426-2x
Power Consumption	12 W
Luminous Flux	910 lm
Color Temperature	3000 K (Warm White)
Beam Angle	110°
Input Voltage	AC 220-240 V / 50/60 Hz
Energy Efficiency Class	F (formerly A+)
Shape	Round
Material	Aluminum frame, Glass diffuser
Outer Diameter	172 mm
Cut-out Diameter	155 mm
Height	20 mm
IP Rating	IP20
Average Lifespan	30,000 Hours
Certifications	CE, RoHS
Dimmable	No

Produktdatenblatt			
DELEGIERTE VERORDNUNG (EU) 2019/2015 DER KOMMISSION zur Energieverbrauchskennzeichnung von Lichtquellen			
Name oder Handelsmarke des Lieferanten: BRAYTRON			
Anschrift des Lieferanten: customer service, BD. IULIU MANIU, NO.616, EТАJ 3, SECTOR 6, Bucharest / Romania			
Modellkennung: BP01-61200			
Art der Lichtquelle:			
Verwendete Beleuchtungstechnologie:	LED	Ungebündelt oder gebündelt:	NDSL
Art des Stoeks der Lichtquelle (oder andere elektronische Schnittstellen):	2835		
Netzspannung/Nicht direkt an die Netzspannung angeschlossen:	MLS	Vernetzte Lichtquelle (CLS):	Nein
Farblich abstimmbare Lichtquelle:	Nein	Hülle:	-
Lichtquelle mit hoher Leuchtdichte:	Nein		
Blendschutzhülle:	Nein	Dimmbar:	Nein
Produktparameter			
Parameter	Wert	Parameter	Wert
Allgemeine Produktparameter:			
Energieverbrauch im Ein-Zustand (kWh/1000 h): die nächstliegende ganze Zahl gerundet:	12	Energieeffizienzklasse	F
Nutzlichtstrom (φuse) mit Angabe, ob sich der Wert auf den Lichtstrom in einer Kugel (360°) oder auf einen breiten Kegel (120°) oder in einem schmalen Kegel (90°) bezieht:	1 120 in Kugel (360°)	ähnliche Farbtemperatur, gerundet auf die nächstliegenden 100 K, oder Spanne der einstellbaren ähnlichen Farbtemperaturen, gerundet auf die nächstliegenden 100 K:	3 000
Leistungsaufnahme im Ein-Zustand (P _{on}) in W	12,0	Leistungsaufnahme im Bereithaltzustand (P _{st}) in W, auf die zweite Dezimalstelle gerundet:	0,00
Leistungsaufnahme im vernetzten Bereithaltzustand (P _{st})	-	Farbwiedergabedex., auf die	81

für CLS in W, auf die zweite Dezimalstelle gerundet		nächstliegende ganze Zahl gerundet, oder Spanne der einstellbaren CRI-Werte	Spektrale Strahlungsverteilung im Bereich 250 nm bis 800 nm bei Vollast	Siehe Bild auf letzter Seite
äußere Abmessungen, abg. ohne separates Betriebsgerät, Beleuchtungssteuerungsteile und Nicht-Bleuchtungsteile (Millimeter)	Höhe Breite Tiefe			
Angabe zu einer gleichwertigen Leistungsaufnahme ^(a)	-	Falls ja, gleichwertige Leistungsaufnahme (W)	-	-
		Farbwertanteile (x und y)	0,428 0,388	
Parameter für LED- und OLED-Lichtquellen:				
Wert des R9-Farbwiedergabefaktors	8	Lebensdauerfaktor	0,90	
Lichtstromerhalt	0,94			
Parameter für LED- und OLED-Netzspannungslichtquellen:				
Verschiebungsfaktor (cos φ1)	0,70	Farbkonsistenz in MacAdam-Ellipsen	6	
Angabe, dass eine LED-Lichtquelle eine Leuchstofflichtquelle ohne eingebautes Vorschaltgerät mit einer bestimmten Leistungsaufnahme ersetzt:	^(b)	Falls ja, Angabe zur ersetzen Leistungsaufnahme (W)	-	
Flimmer-Messgröße (Pst LM)	0,5	Messgröße für Stroboskop-Effekte (SvM)	0,3	

(a) „-“ nicht zutreffend;
(b) „-“ nicht zutreffend;

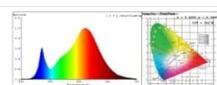


Figure 4: Product Data Sheet (German). For detailed energy information, refer to the [EPREL database](#).

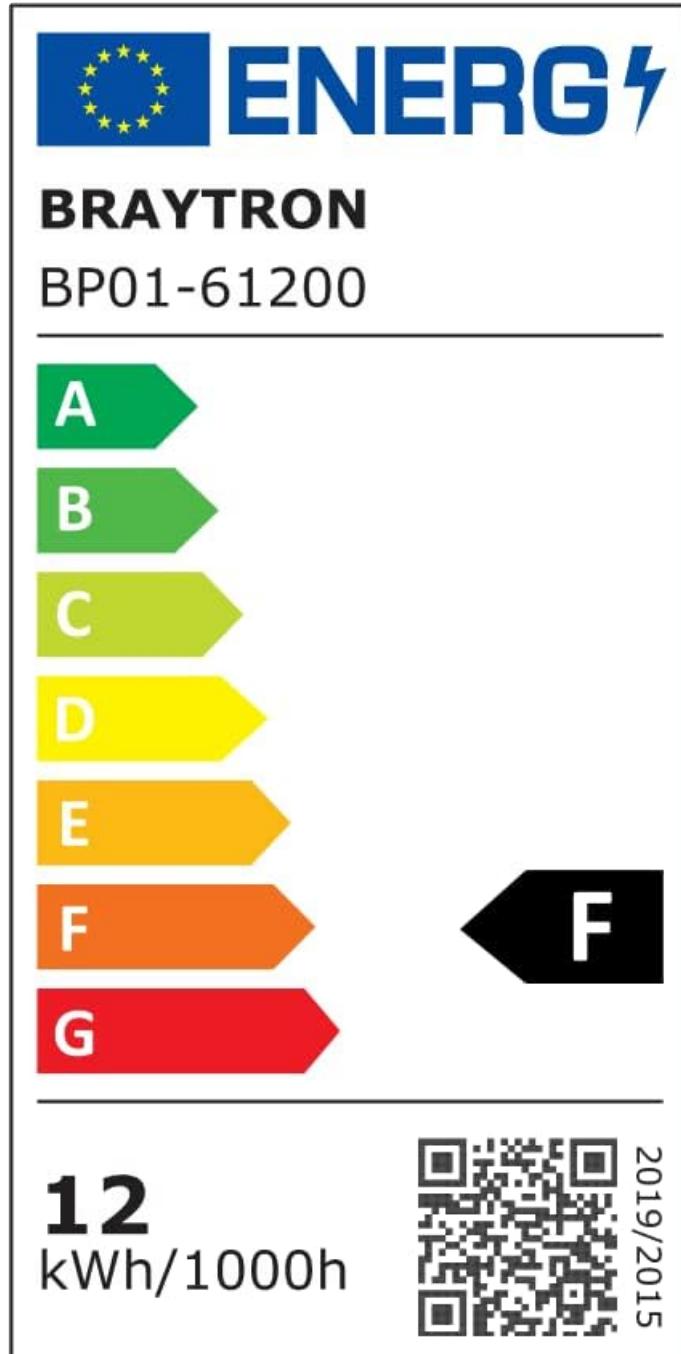
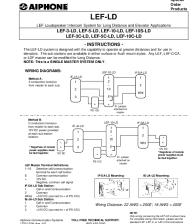


Figure 5: EU Energy Label indicating energy efficiency class F (new rating system).

9. WARRANTY AND SUPPORT

Information regarding specific warranty terms and conditions for this product is not provided in this manual. Please refer to your purchase documentation or contact your retailer for details on warranty coverage and customer support.

For technical assistance or inquiries, please contact Braytron customer service or your local distributor.

 <p>Braytron 200001 Lighting Unit Product Catalogue www.braytron.com</p>	<p>Braytron Product Catalogue: Comprehensive LED Lighting Solutions</p> <p>Explore the extensive Braytron product catalogue featuring innovative LED lighting solutions for residential, commercial, and industrial applications. Discover high-quality fixtures, energy-efficient designs, and advanced lighting technology.</p>
 <p>LeuchtenDirekt 997615 GABRIEL Ceiling Light - Installation and Specifications</p>	<p>Installation guide and specifications for the LeuchtenDirekt 997615 GABRIEL ceiling light. Features 2x E14 25W bulbs, 230V/50Hz operation, and detailed mounting instructions.</p>
 <p>Little Doctor LD-60, LD-61, LD-70, LD-70NR, LD-71, LD-71A, LD-80 Blood Pressure Monitor Manual</p>	<p>Comprehensive user manual for Little Doctor mechanical blood pressure monitors (sphygmomanometers) including models LD-60, LD-61, LD-70, LD-70NR, LD-71, LD-71A, and LD-80. Covers general information, indications for use, recommendations for accurate measurement, device components, preparation, measurement procedure, care, storage, maintenance, disposal, warranty, and technical specifications.</p>
 <p>CIAT AQUACIATPOWER LD/ILD 602R-4000R Instruction Manual</p>	<p>This instruction manual provides detailed information on the installation, operation, and maintenance of CIAT AQUACIATPOWER LD and ILD chillers and reversible heat pumps, models 602R through 4000R. It covers safety instructions, handling and positioning, dimensions, clearances, electrical connections, application data, water connections, system water flow rate control, system start-up, main components, options, standard maintenance, and final shut-down procedures.</p>
 <p>Aiphone LEF-LD Loudspeaker Intercom System: Instructions and Wiring</p>	<p>Detailed instructions and wiring diagrams for the Aiphone LEF-LD Long Distance Loudspeaker Intercom System, covering models LEF-3-LD, LEF-5-LD, LEF-10-LD, LEF-10S-LD, LEF-3C-LD, LEF-5C-LD, and LEF-10C-LD.</p>
 <p>VEVOR Electric Griddle User Manual - Models LD-818, LD-820, LD-818A, LD-818B, LD-822</p>	<p>User manual for VEVOR electric griddles, providing essential information on basic parameters, transportation, installation, operation, cleaning, maintenance, electrical schematics, and warranty details for models LD-818, LD-820, LD-818A, LD-818B, and LD-822.</p>