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› BTF-LIGHTING FCOB CCT LED Strip Kit User Manual

## BTF-LIGHTING FCOBCCT5M640L24VRF3A-EU

# BTF-LIGHTING FCOB CCT LED Strip Kit User Manual

Model: FCOBCCT5M640L24VRF3A-EU | Brand: BTF-LIGHTING

## 1. INTRODUCTION

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Thank you for choosing the BTF-LIGHTING FCOB CCT LED Strip Kit. This kit provides flexible, high-density LED lighting with adjustable color temperature, ranging from warm white (3000K) to cool white (6000K). Designed for indoor use, this product offers uniform illumination and is suitable for various decorative and functional lighting applications. Please read this manual thoroughly before installation and operation to ensure proper use and longevity of your LED strip kit.



Image 1.1: Examples of FCOB CCT LED strip applications in different indoor settings.

## 2. PRODUCT COMPONENTS

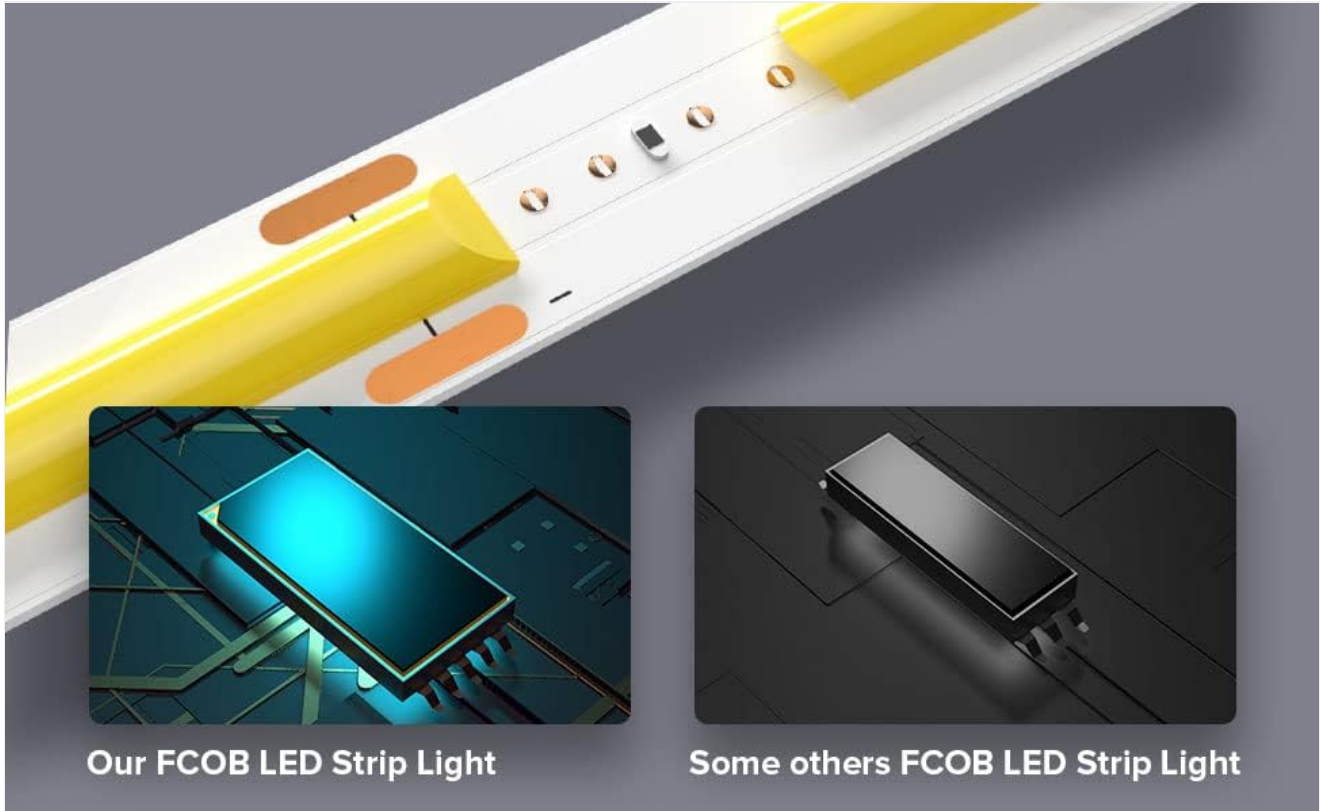
The BTF-LIGHTING FCOB CCT LED Strip Kit includes the following components:

- FCOB LED Light Strip (5 meters, 640 LEDs/meter, 3000K-6000K Tunable CCT)
- RF Dimmable Controller
- 24V 3A 72W Power Adapter

## 3. FEATURES

- **Adjustable Color Temperature:** Seamlessly switch between warm white (3000K) and cool white (6000K) to suit various moods and tasks. The RF controller provides precise control over the color temperature.
- **High Brightness & Quality:** The FCOB (Flip Chip On Board) design directly integrates LED chips, offering 640 chips per meter for superior brightness and uniform light output. It delivers 5000 lumens (100LM/W) for warm white and 6000 lumens (100LM/W) for cool white.

- **High CRI (Color Rendering Index):** With a CRI of 90+, colors appear vibrant and true to life under this lighting.
- **Uniform Illumination:** FCOB technology eliminates visible individual LED dots, providing a continuous, glare-free, and soft light output.
- **Cuttable Design:** The LED strip can be cut at designated marks to fit specific lengths, allowing for customized installations.
- **Easy Installation:** Equipped with high-quality, heat-resistant double-sided adhesive for secure and straightforward mounting.
- **Indoor Use Only:** The strip has an IP30 rating, making it suitable exclusively for dry indoor environments.



*Image 3.1: FCOB vs. SMD LED strip comparison, highlighting the uniform light of FCOB.*

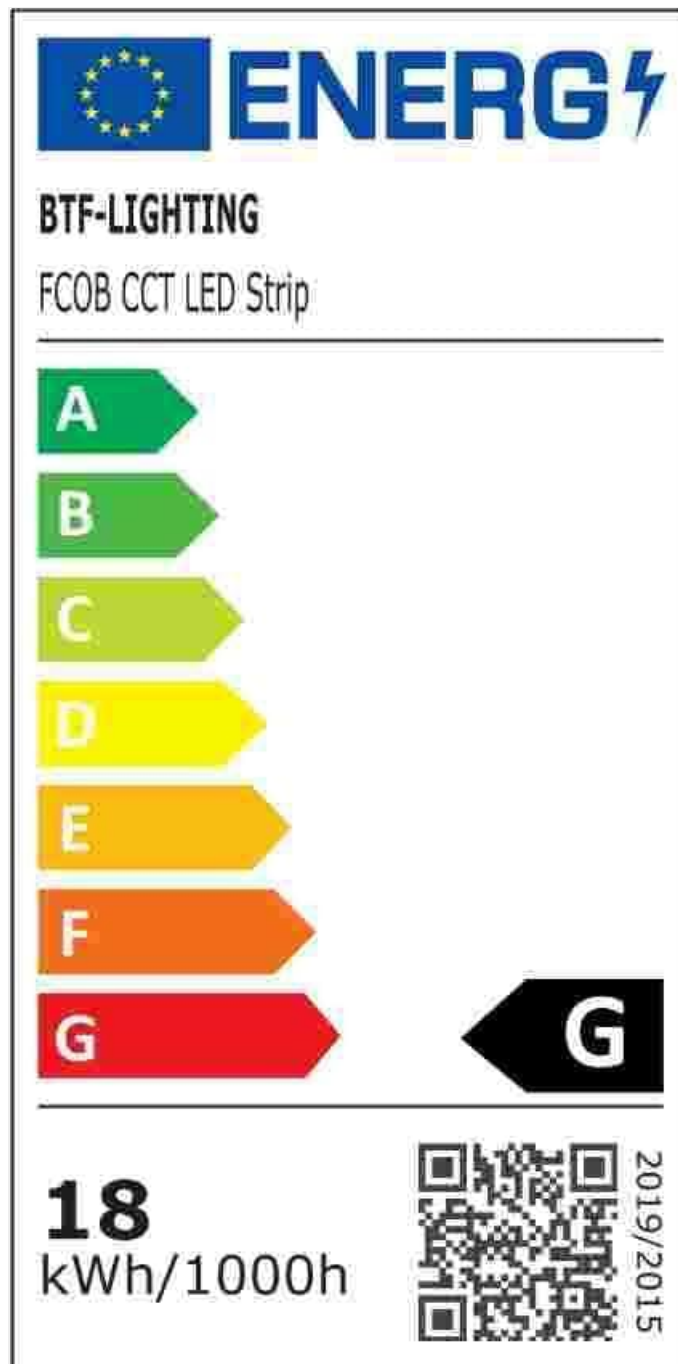


Image 3.2: Detailed view of the FCOB LED strip's chip-on-board technology.

## 4. SETUP AND INSTALLATION

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Follow these steps for proper installation of your LED strip kit:

1. **Prepare the Surface:** Ensure the installation surface is dry, clean, and smooth. Dust, oil, or moisture can compromise the adhesive's effectiveness.
2. **Measure and Cut (Optional):** If a shorter length is required, measure the desired length and cut the LED strip only at the designated cutting marks (usually indicated by a copper pad and scissor icon). Cutting elsewhere will damage the circuit.
3. **Attach the LED Strip:** Peel off the backing from the double-sided adhesive tape on the back of the LED strip. Carefully press the strip onto the prepared surface, ensuring firm and even contact along its entire length.
4. **Connect the Controller:** Connect the FCOB LED strip to the RF Dimmable Controller. Ensure the polarity is correct (usually indicated by arrows or markings on the connectors).
5. **Connect the Power Adapter:** Plug the 24V 3A 72W Power Adapter into the RF Dimmable Controller. Then, plug the

power adapter into a standard electrical outlet.

6. **Test the Lights:** Once all connections are secure, use the RF remote control to test the LED strip's functionality.

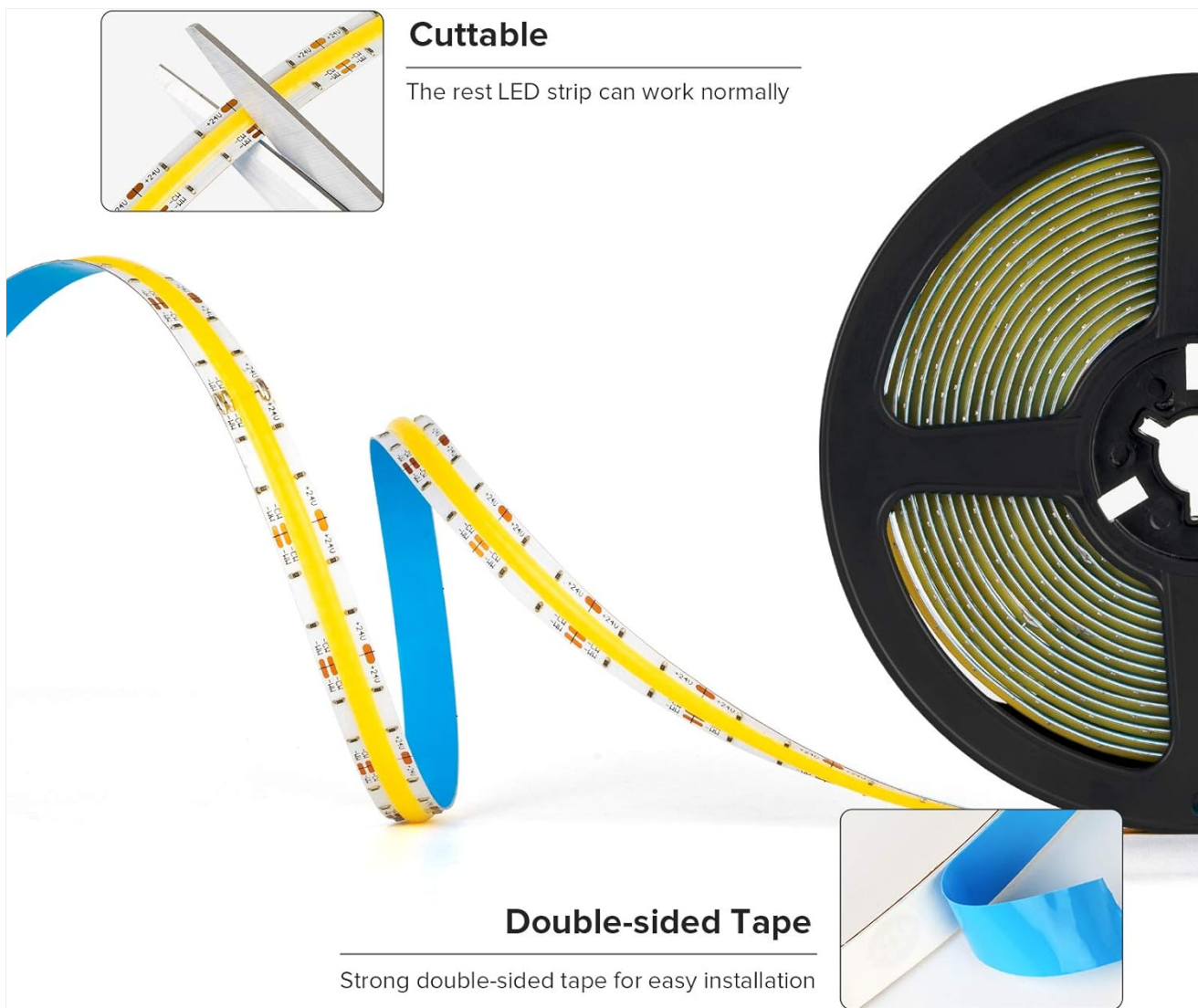


Image 4.1: Instructions for cutting the LED strip and using the double-sided adhesive.

## 5. OPERATING INSTRUCTIONS

The LED strip is controlled using the included RF Dimmable Controller. The remote control has a range of approximately 15-20 meters (49-66 feet) in open spaces.

### Remote Control Functions:

- **Power Button:** Turns the LED strip ON or OFF.
- **Brightness Adjustment:** Increase or decrease the light intensity.
- **Color Temperature Adjustment:** Adjust the color temperature from warm white (3000K) to cool white (6000K).
- **Preset Scenes:** Select from various pre-programmed lighting scenes.
- **Dynamic Modes:** Activate different dynamic lighting effects.
- **Delay Off:** Some controllers may feature a 60-second delay to turn off the lights.



## RF Wireless Remote Control

Remote control distance of 49-66ft (15-20m) in open spaces.



RF Wireless Remote Control



Brightness Adjustment



10 Dynamic Modes



6 Adjustable Temperature



3 Scenes



60 seconds delay to turn off the lights

Image 5.1: RF Wireless Remote Control and its functions.

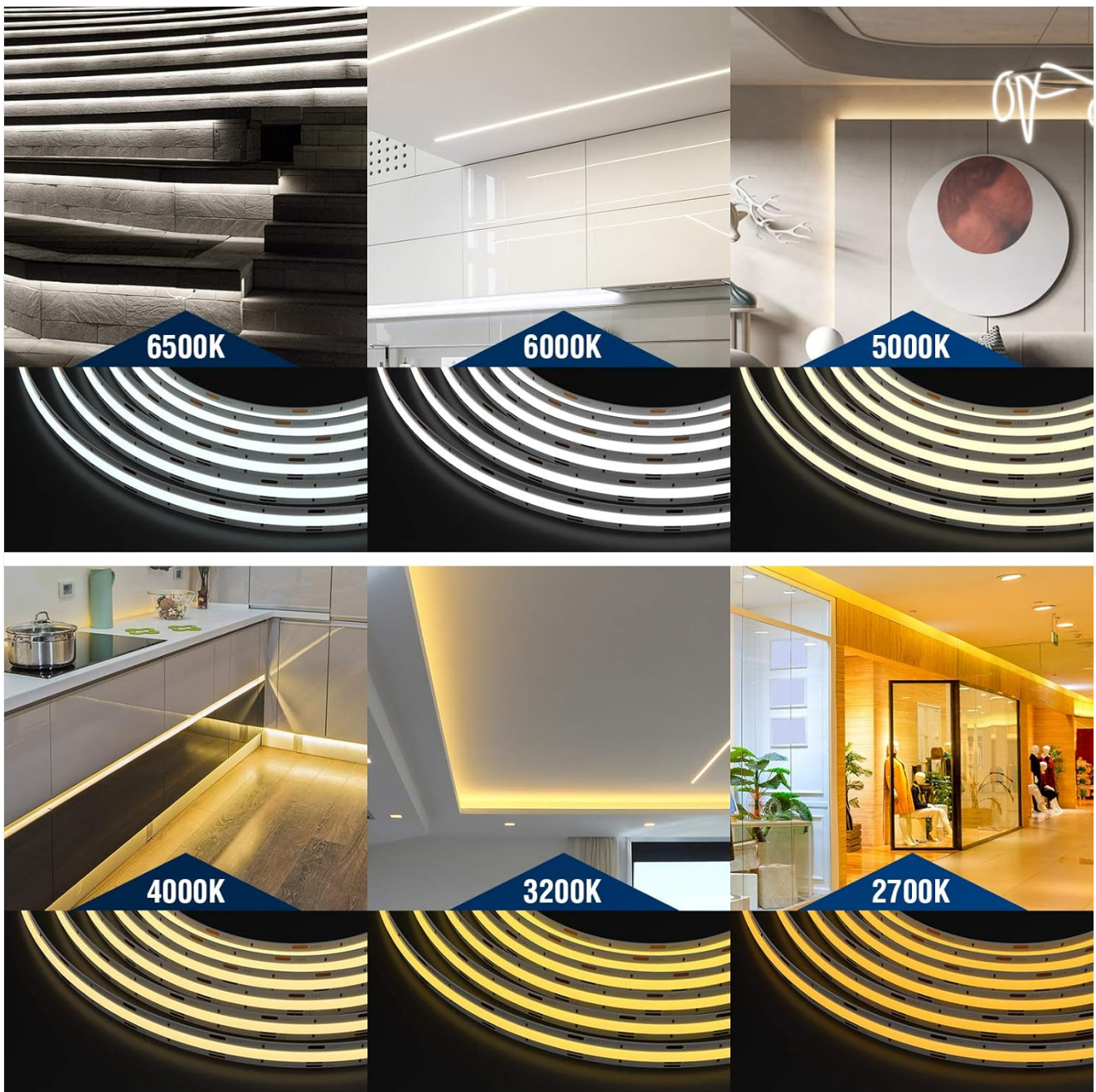


Image 5.2: Visual representation of different color temperatures (2700K to 6500K) achievable with the LED strip.

## 6. MAINTENANCE

To ensure the longevity and optimal performance of your LED strip kit, follow these maintenance guidelines:

- **Cleaning:** Gently wipe the LED strip with a soft, dry cloth to remove dust. Do not use liquid cleaners or abrasive materials, as they can damage the strip or its adhesive.
- **Inspection:** Periodically check the connections between the LED strip, controller, and power adapter to ensure they are secure.
- **Environment:** As the product is IP30 rated, ensure it is not exposed to water, high humidity, or extreme temperatures. Use only in dry indoor environments.
- **Power Supply:** Always use the provided 24V 3A 72W power adapter. Using an incompatible power supply can damage the LED strip and void the warranty.

## 7. TROUBLESHOOTING

If you encounter issues with your LED strip kit, refer to the following troubleshooting steps:

Problem	Possible Cause	Solution
LED strip does not light up.	<ol style="list-style-type: none"> <li>1. Power adapter not plugged in.</li> <li>2. Loose connection.</li> <li>3. Remote control battery depleted.</li> <li>4. LED strip or controller faulty.</li> </ol>	<ol style="list-style-type: none"> <li>1. Ensure power adapter is securely plugged into outlet and controller.</li> <li>2. Check all connections between strip, controller, and adapter.</li> <li>3. Replace remote control battery.</li> <li>4. Contact customer support if components are faulty.</li> </ol>
Lights flicker or dim unexpectedly.	<ol style="list-style-type: none"> <li>1. Unstable power supply.</li> <li>2. Loose connection.</li> <li>3. Overheating.</li> </ol>	<ol style="list-style-type: none"> <li>1. Ensure power adapter is providing stable 24V output. Avoid overloading.</li> <li>2. Check all connections.</li> <li>3. Ensure proper ventilation around the strip and controller.</li> </ol>
Remote control not working.	<ol style="list-style-type: none"> <li>1. Battery depleted.</li> <li>2. Obstruction between remote and controller.</li> <li>3. Remote not paired (if applicable).</li> </ol>	<ol style="list-style-type: none"> <li>1. Replace battery.</li> <li>2. Ensure clear line of sight or reduce distance.</li> <li>3. Refer to controller instructions for pairing procedure (if any).</li> </ol>
Incorrect color temperature or brightness.	<ol style="list-style-type: none"> <li>1. Incorrect remote setting.</li> <li>2. Controller malfunction.</li> </ol>	<ol style="list-style-type: none"> <li>1. Adjust settings using the remote control.</li> <li>2. Try resetting the controller by unplugging and replugging the power. If issue persists, contact support.</li> </ol>

## 8. SPECIFICATIONS

Feature	Specification
Model Number	FCOBCCT5M640L24VRF3A-EU
ASIN	B08R8DNZXR
Brand	BTF-LIGHTING
Light Source Type	FCOB LED
LED Density	640 LEDs/meter (Total 3200 LEDs for 5M)
Length	5 Meters
Voltage	24 Volts
Wattage	72 Watts (Max)
Color Temperature	Tunable 3000K (Warm White) to 6000K (Cool White)
CRI	>90
Luminous Flux	5000 lumens (Warm White), 6000 lumens (Cool White)

Feature	Specification
IP Rating	IP30 (Non-waterproof, Indoor Use Only)
Control Type	RF Remote Control
Included Components	FCOB Light Strip, RF Controller, 24V 3A 72W Power Supply
Product Dimensions (L x W x H)	15 x 1.5 x 1.5 cm (packaging/rolled strip); Item Weight: 30 Grams
Manufacturer	BTF-LIGHTING Technology CO.,Limited

For detailed energy efficiency information, please refer to the EPREL database:

[EPREL Product Information Sheet](#)

Produktdatenblatt			
DELEGIERTE VERORDNUNG (EU) 2019/2015 DER KOMMISSION zur Energieverbrauchskennzeichnung von Lichtquellen			
Name oder Handelsmarke des Lieferanten: BTF-LIGHTING			
Anschrift des Lieferanten: MINAL, LIEKLENDORFRODG			
Modellbezeichnung: FCOB CCT LED Strip			
<b>Art der Lichtquelle:</b>			
Verwendete Beleuchtungstechnologie:	LED	Ungebündelt oder gebündelt:	DLS
Art des Sockels der Lichtquelle (oder andere elektrische Schnittstelle)	N/A		
Netzspannung/Nicht direkt an die Netzspannung angeschlossen:	NM/LS	Vernetzte Lichtquelle (CLS):	Nein
Farblich abstimmbare Lichtquelle:	Nein	Hülle:	-
Lichtquelle mit höher Leuchtdichte:	Nein		
Blendenschutz:	Nein	Dimmbar:	Nein
Produktparameter			
Parameter	Wert	Parameter	Wert
<b>Allgemeine Produktparameter:</b>			
Energieverbrauch im Ein-Zustand (E <sub>in</sub> /1000 h), auf die nächstliegende ganze Zahl gerundet	18	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	398 in Kugel (360°)	ähnliche Farbstemperatur, gerundet auf die nächstliegenden 100 K oder Spanne der einstellbaren ähnlichen Farstemperaturen, gerundet auf die nächstliegenden 100 K	6.000
Leistungsaufnahme im Ein-Zustand (P <sub>in</sub> ) in W	18,0	Leistungsaufnahme im Bereitschaftszustand (P <sub>by</sub> ) in W, auf die zweite Dezimalstelle gerundet	0,00
Leistungsaufnahme im vernetzten Bereitschaftszustand (P <sub>by</sub> )	-	Farbwiedergabeindex, auf die nächstliegende ganze Zahl gerundet	80
für CLS in W, auf die zweite Dezimalstelle gerundet			
Außere Abmessungen, ohne separate Befestigung, Bohrungstiefe und Nicht-Bohrungstiefe (Millimeter)	Höhe: 1.000 Breite: 32 Tiefe: 10	Spektrale Strahlungsverteilung im Bereich 250 nm bis 800 nm bei Vollast	Siehe Bild auf letzter Seite
Angabe zu einer gleichwertigen Leistungsaufnahme <sup>1)</sup>	-	Falls ja, gleichwertige Leistungsaufnahme (W)	-
Parameter für Lichtquellen mit gebündeltem Licht:			
Spitzenlichtstärke (cd)	508	Halbwertswinkel in Grad oder Spanne der einstellbaren Halbwertswinkel	120
Parameter für LED- und OLED-Lichtquellen:			
Wert des R <sub>a</sub> Farbwiedergabeindex	62	Lebensdauerfaktor	0,87
Lichtstromerhalt	0,86		
<sup>1)</sup> - siehe untenfindend; <sup>2)</sup> - nicht zutreffend;			

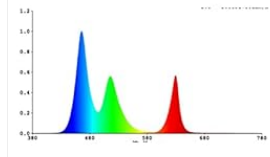


Image 8.1: EU Energy Label for the FCOB CCT LED Strip.

## 9. WARRANTY AND SUPPORT

BTF-LIGHTING products are designed for reliability and performance. For warranty information or technical support, please contact your retailer or visit the official BTF-LIGHTING website. Keep your purchase receipt as proof of purchase for any warranty claims.

