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› JOYLIT /

› JOYLIT 30MM Wide COB LED Strip Lights 24V Cool White 6000K 16.4FT/5M 8000LEDs 22000LM Ultra Bright, 5 Rows LED Tape Light CRI 90+ 160W Dimmable Indoor Light Strip for Commercial, Home, Industrial 6000K Cool White

JOYLIT COB-24V-1600-5M-60K

JOYLIT 30MM Wide COB LED Strip Lights

Model: COB-24V-1600-5M-60K

Brand: JOYLIT

INTRODUCTION

The JOYLIT 30MM Wide COB LED Strip Light is an advanced lighting solution designed for various indoor applications. Featuring COB (Chip-on-Board) technology, this strip light provides superior brightness and uniform light distribution without visible individual LED dots. Its 30mm wide, 5-row design ensures broad illumination, making it suitable for commercial, home, and industrial environments.

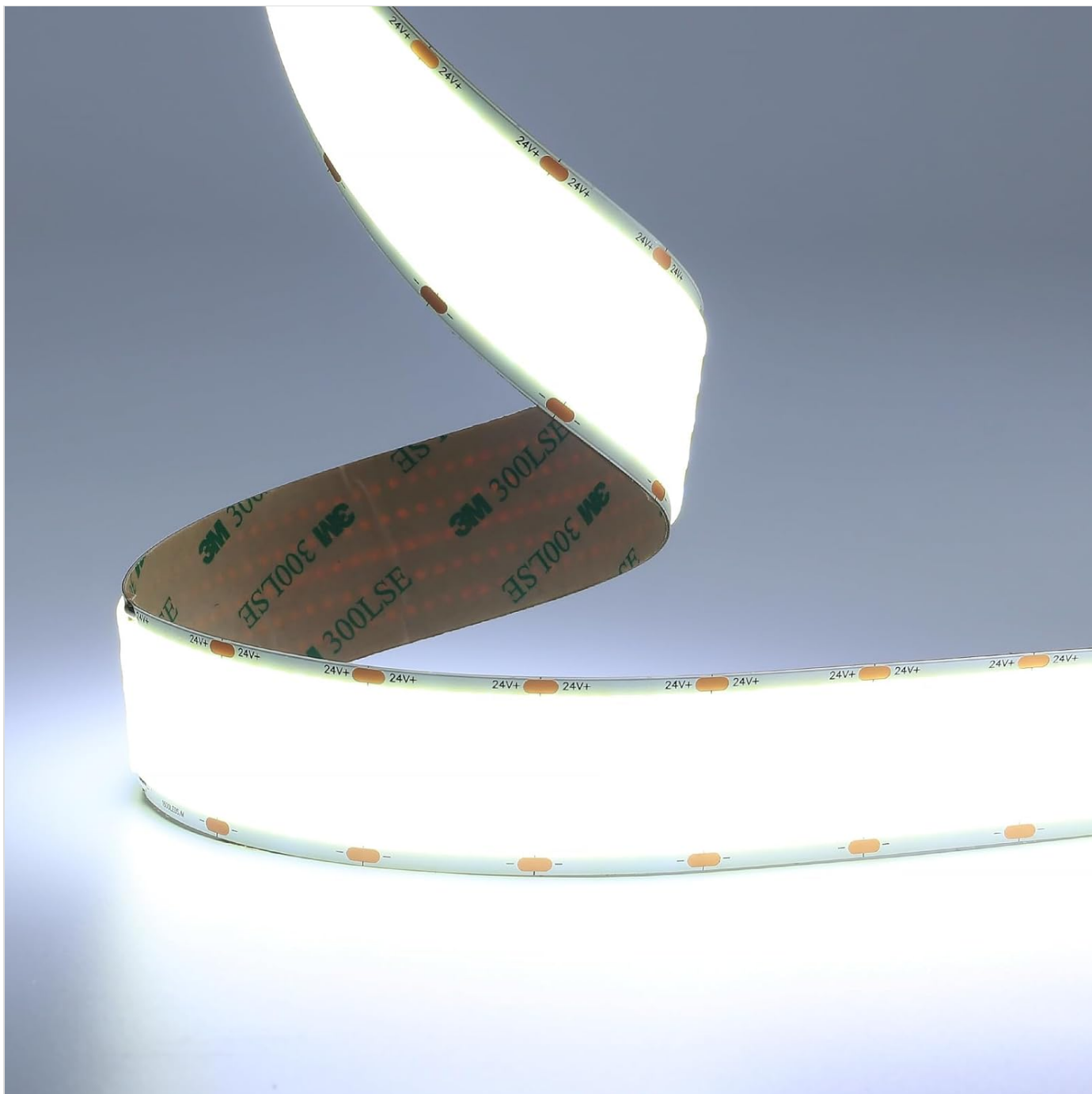


Image: The JOYLIT 30MM Wide COB LED Strip Light, showing its flexible design and adhesive backing.

SAFETY INFORMATION

Important Safety Precautions:

- **FORBIDDEN TO LIGHT UP WHEN IN THE REEL:** Never operate the LED strip while it is still coiled in the reel, even for short periods. This can cause excessive heat buildup and damage.
- **Voltage Requirement:** Use only with a low-voltage 24V DC power supply. Connecting directly to AC power will damage the strip.
- **Handling:** LED strip lights must be handled with care. Applying excessive pressure or bending sharply may damage the internal components.
- **Indoor Use Only:** This product has an IP20 rating and is designed for indoor use only. Do not install in wet or damp locations.
- **Maximum Run Length:** Each maximum run length requires a separate power supply. Do not extend beyond the recommended length without proper power distribution to avoid voltage drop and overheating.

- **Eye Safety:** Do not stare directly into the light source when it is illuminated.
- **Professional Installation:** This product is intended to be installed and serviced by qualified personnel only.

Package Contents:

- LED Strip Only

Produktartenblatt			
DELEGIERTE VERORDNUNG (EU) 2019/2015 DER KOMMISSION zur Energieverbrauchskennzeichnung von Lichtquellen			
Name oder Handelsmarke des Lieferanten: JOYLIT			
Anschrift des Lieferanten: CET PRODUCT SERVICE SP. Z O.O., Ul. Długa 33 102, 95-100 Zgierz polen, PL			
Modellkennung: COB-D480-30K			
Art der Lichtquelle:			
Verwendete Beleuchtungstechnologie:	LED	Ungebündelt oder gebündelt:	DLS
Art des Sockels der Lichtquelle (oder andere elektrische Schnittstelle)	/		
Netzspannung/Nicht direkt an die Netzspannung angeschlossen:	NMLS	Vernetzte Lichtquelle (CLS):	Ja
Farblich abstimmbare Lichtquelle:	Nein	Hülle:	-
Lichtquelle mit hoher Leuchtdichte:	Nein		
Blendschutzschild:	Nein	Dimmbar:	Nur mit bestimmten Dimmern
Produktparameter			
Parameter	Wert	Parameter	Wert
Allgemeine Produktparameter:			
Energieverbrauch im Ein-Zustand (kWh/1000 h), auf die nächstliegende ganze Zahl gerundet	125	Energieeffizienzklasse	E
Nutzlichtstrom (ϕ_{use}) 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	15 085 in breiter Kegel (120°)	ähnliche Farbtemperatur, gerundet auf die nächstliegenden 100 K, oder Spanne der einstellbaren ähnlichen Farbtemperaturen, gerundet auf die nächstliegenden 100 K	2 700 oder 3 000 oder 4 000 oder 5 000 oder 6 000
Leistungsaufnahme im Ein-Zustand (P_{in}) in W	125,0	Leistungsaufnahme im Bereitschaftszustand (P_{st}) in W, auf die zweite Dezimalstelle gerundet	-
Seite 1 / 3			
Leistungsaufnahme im vernetzten Bereitschaftsbetrieb (P_{net}) für CLS in W, auf die zweite Dezimalstelle gerundet	-	Farbwiedergabeindex, auf die nächstliegende ganze Zahl gerundet, oder Spanne der einstellbaren CRI-Werte	97
äußere Abmessungen, ggf. ohne separates Betriebsgerät, Beleuchtungssteuerungsteile und Nicht-Beleuchtungsteile (Millimeter)	Höhe	5 000	Spektrale Strahlungsverteilung im Bereich 250 nm bis 800 nm bei Vollast
	Breite	12	
	Tiefe	1	
Angabe zu einer gleichwertigen Leistungsaufnahme ^(a)		-	Falls ja, gleichwertige Leistungsaufnahme (W)
			Farbwertanteile (x und y)
			0,444 0,402
Parameter für Lichtquellen mit gebündeltem Licht:			
Spitzenlichtstärke (cd)	3 112	Halbwertswinkel in Grad oder Spanne der einstellbaren Halbwertswinkel	180
Parameter für LED- und OLED-Lichtquellen:			
Wert des R9-Farbwiedergabeindex	16	Lebensdauerfaktor	1,00
Lichtstromerhalt	0,96		
^(a) „-“: nicht zutreffend;			
^(b) „-“: nicht zutreffend;			
Seite 2 / 3			
Spectrum			
1.2			

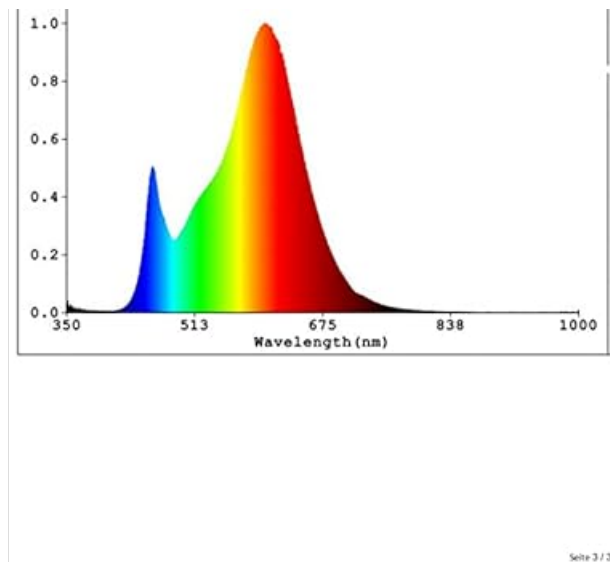


Image: Product packaging displaying safety warnings and manufacturer contact information.

PRODUCT FEATURES

- **Advanced COB Technology:** Features 5 rows of COB LED chips across a 30mm wide strip, providing bright, uniform, and dotless linear lighting.

Surface Uniform Lighting

The light strip is designed with 5 rows of COB LED strip lights, total 1600LEDs/M, from spot to linear, then linear to surface, this new model 30mm wide LED strip emits a bright and dotless cob linear surface lighting.

24V
DC

40W
per meter

4400LM
per meter

90
CRI



Image: Illustration of the COB LED strip's uniform surface lighting, highlighting 24V DC, 40W/meter, 4400LM/meter, and CRI 90+.

- **Ultra Bright Illumination:** Contains 8000 LED chips (1600 LEDs/meter) with a total wattage of approximately 160W (40W/meter) and an impressive 22000 lumens (4400LM/meter), ideal for large spaces requiring high brightness.
- **Enhanced Durability and Lifespan:** Constructed with a double-layer thicker PCB board for superior electronic conductivity and heat dissipation. Features strictly selected LED lamp beads for consistent color temperature and lighting saturation. Utilizes UL-approved 18AWG silicone wire, resistant to 200°C high temperatures, ensuring safety and a lifespan exceeding 65,000 hours.

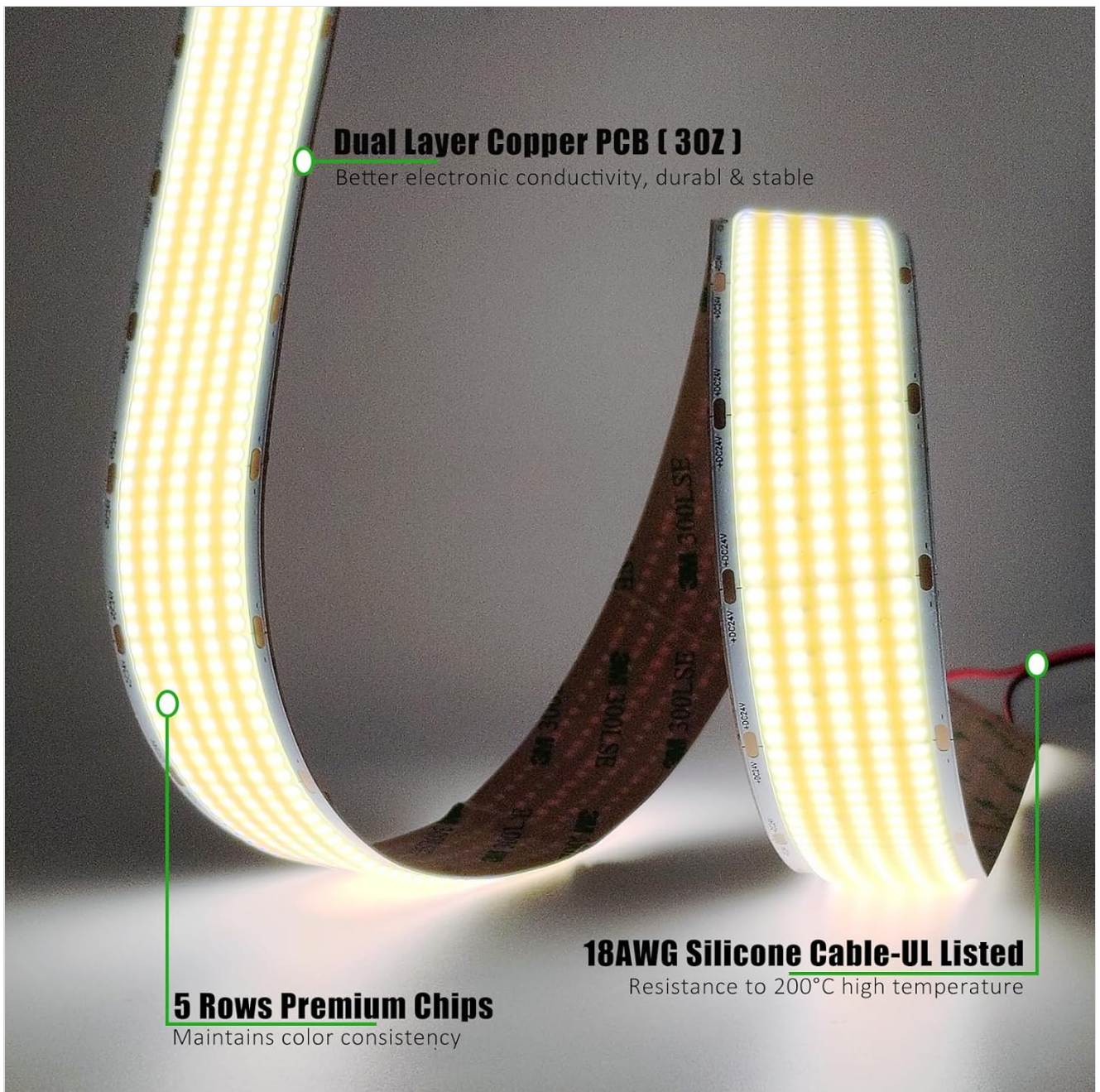


Image: Detailed view of the LED strip highlighting the dual-layer copper PCB, 5 rows of premium chips for color consistency, and 18AWG UL-listed silicone cable for high temperature resistance.

- **24V Low Voltage Input:** The 24V input voltage minimizes voltage drop, ensuring consistent brightness across the entire strip, unlike 12V strips which may show significant light fade, especially for high-brightness models. 24V is also a human safety voltage.
- **High Color Rendering Index (CRI > 90):** A high CRI ensures strong color reproduction, making illuminated objects appear vibrant, attractive, and fully saturated. This is perfect for retail displays, malls, display cabinets, and high-end clubs.

High color rendering, low light decay



Image: Visual comparison demonstrating the superior color rendering (RA > 90) of JOYLIT LED strips compared to standard RA 80 lighting.

- **Fully Dimmable:** When paired with a compatible LED dimmer (sold separately), the brightness can be smoothly adjusted from 0-100%. It is compatible with most dimmer types, including ELV, TRIAC, DMX, 0-10V, RF, and IR.

Fiche d'information sur le produit			
RÈGLEMENT DÉLÉGUÉ (UE) 2019/2015 DE LA COMMISSION en ce qui concerne l'étiquetage énergétique des sources lumineuses			
Nom du fournisseur ou marque commerciale: JOYLIT			
Adresse du fournisseur: CET PRODUCT SERVICE SP. Z O.O., Ul. Długa 33 102, 95-100 Żgierz polen, PL			
Référence du modèle: CDB-D480-30K			
Type de source lumineuse:			
Technologie d'éclairage utilisée:	LED	Non-ditige ou ditige:	DLS
Type de coudet de la source lumineuse (ou d'autre interface électrique)	/		
Secteur ou non secteur:	NMLS	Source lumineuse connectée (SLC):	Oui
Source lumineuse réglable en couleur:	Non	Enveloppe:	-
Source lumineuse à luminance élevée:	Non		
Protection anti-éblouissement:	Non	Utilisation avec un variateur:	Uniquement avec des variateurs spécifiques
Paramètres du produit			
Paramètre	Valeur	Paramètre	Valeur
Paramètres généraux du produit:			
Consommation d'énergie en mode marche (kWh/1000 h), arrondie à l'entier supérieur le plus proche	125	Classe d'efficacité énergétique	E
Flux lumineux utile (lm), avec indication qu'il se réfère au flux dans une sphère (360°), dans un cône large (120°) ou dans un cône étroit (90°)	15 085 sur Cône large (120°)	Température de couleur: proximale, arrondie à la centaine de K la plus proche, ou la plage de températures de couleur proximales qui peuvent être réglées	2 700 ou 3 000 ou 4 000 ou 5 000 ou 6 000
Puissance en mode marche (P _{act}), exprimée en W	125,0	Puissance en mode veille (P _{sc}), exprimée en W et arrondie à la	-

Puissance en mode veille (P_{veille}), pour SLC, exprimée en W et arrondie à la deuxième décimale		-	deuxième décimale	indice de rendu des couleurs, arrondi à l'entier le plus	97
Page 114					
				proche, ou la plage de valeurs d'IRC qui peuvent être réglées	
Dimensions extérieures en mm, sans appareillage de commande séparé, éléments de régulation de l'éclairage ni éléments sans fonction d'éclairage (le cas échéant)	Hauteur	5 000	Distribution de la puissance spectrale dans la plage de 250 nm à 800 nm, à pleine charge		
	Largeur	12	Voir l'image de la page précédente		
	Profondeur	1			
Déclaration de puissance équivalente ⁴⁾		-	Si oui, puissance équivalente (W)	-	
			Coordonnées chromatiques (x et y)	0,444 0,402	
Paramètres pour les sources lumineuses dirigées:					
Intensité lumineuse de crête (cd)	3 112	Angle de faisceau en degrés, ou la gamme d'angles de faisceau qui peuvent être réglés		180	
Paramètres pour les sources lumineuses LED et OLED:					
R9 valeur de l'indice de rendu des couleurs	16	Facteur de survie		1,00	
Facteur de conservation du flux lumineux	0,96				
⁴⁾ : sans objet. ⁵⁾ : sans objet.					
Page 114					

Spectrum

WaveLength (nm)

Modèle mis sur le marché de l'Union du 13/04/2023		
Numéro d'enregistrement EPREL: 1552272	https://eprel.ec.europa.eu/qy/1552272	
Fournisseur: CET PRODUCT SERVICE SP Z O.O. (Mandat)	Site web: https://www.cetproduct.com/blank-10	
Service après-vente:		
Nom: CET PRODUCT SERVICE SP Z O.O.	Site web:	
Courriel: info@cetproduct.com	Téléphone: +4973416432251	
Adresse: Ul. Długa 33 102 95-100 Żgierz polen Pologne		
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Image: The LED strip demonstrating dimmable functionality, showing light output at 10% and 100% brightness.

- **Easy Installation:** Features original brand adhesive backing for secure mounting on any dry, clean, and smooth surface. The strip can be cut every 1 inch (2.5CM) for DIY customization.

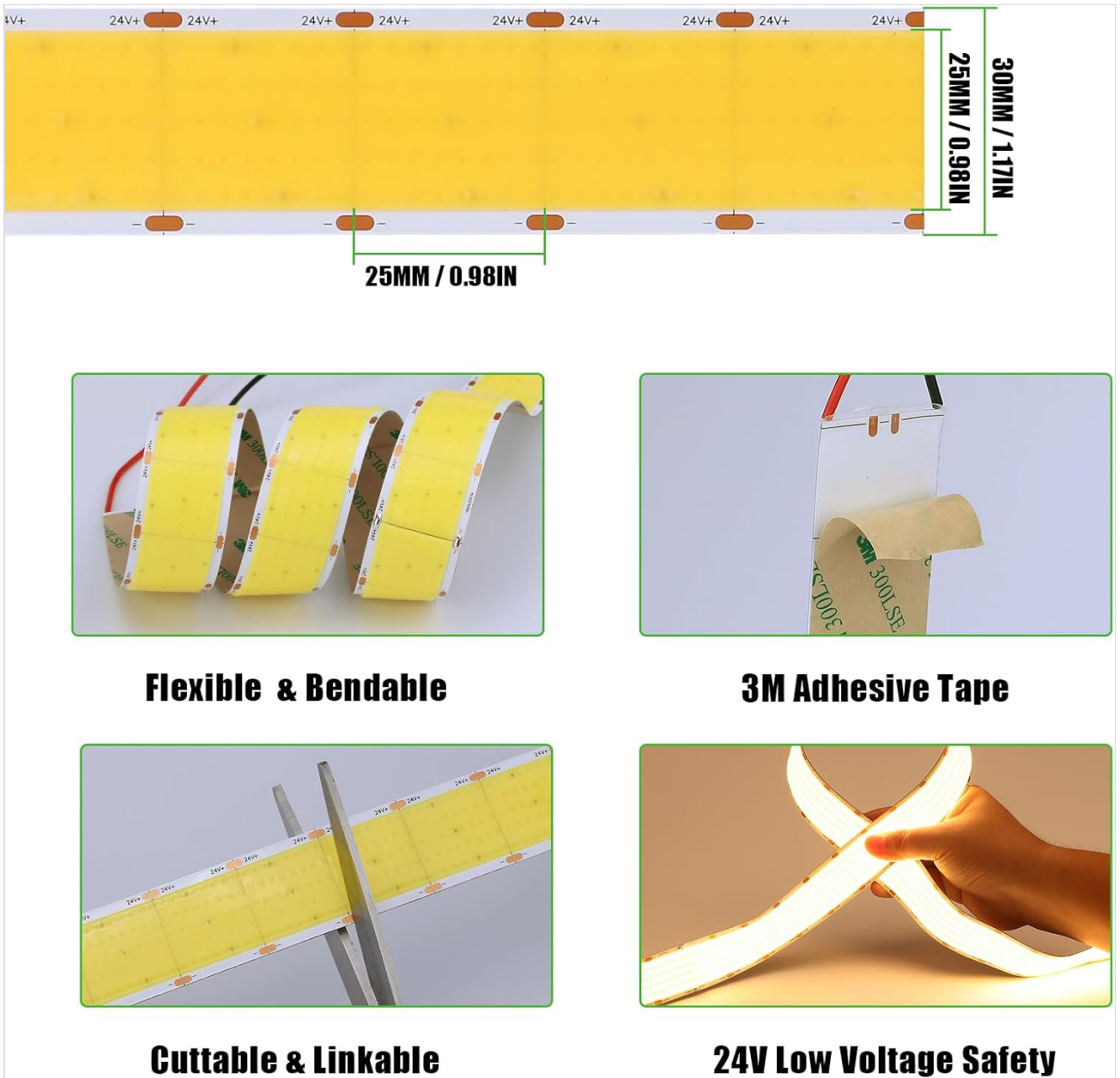


Image: Collage illustrating the LED strip's flexibility, 3M adhesive tape, cuttable segments, and 24V low voltage safety.

SETUP AND INSTALLATION

Follow these steps for proper setup and installation of your JOYLIT LED Strip Light. Ensure all safety precautions are observed before beginning.

Required Components (Not Included):

- 24V DC Power Supply (minimum 200W for this 5M strip)
- Power Cords (for connecting power supply to mains)
- Flathead Screwdriver (for terminal connections)
- Compatible LED Dimmer (optional, for dimmable functionality)

Scheda informativa del prodotto			
REGOLAMENTO DELEGATO (UE) 2019/2015 DELLA COMMISSIONE per quanto riguarda l'etichettatura energetica delle sorgenti luminose			
Nome e marchio del fornitore: JOYLIT			
Indirizzo del fornitore: CET PRODUCT SERVICE SP. Z O.O., Ul. Długa 33 102, 95-100 Żgierz polen, PL			
Identificativo del modello: COB-D480-30K			
Tipo di sorgente luminosa:			
Tecnologia d'illuminazione:	LED	Non direzionale o direzionale:	DLS
Tipo di attacco della sorgente luminosa			
(o altra interfaccia elettrica)			
A tensione di rete o non a tensione di rete:	NMLS	Sorgente luminosa connessa (CLS):	SI

Sorgente luminosa a colori visibili:	No	Involucro:	-
Sorgente luminosa ad alta luminanza:	No		
Schermo antiriflessi:	No	Regolabile:	Solo con specifici regolatori d'intensità
Parametri del prodotto			
Parametro	Valore	Parametro	Valore
Parametri generali del prodotto:			
Consumo di energia in modo acceso (W _{in} /1000 h), arrotondato per eccesso all'intero più vicino	125	Classe di efficienza energetica	E
Flusso luminoso utile (Φ _{use}), indicando se si riferisce al flusso in una sfera (50%), in un cono ampio (120°) o in un cono stretto (90°)	15 065 in Cono ampio (120°)	Temperatura di colore correlata, arrotondata al 100 K più vicino, oppure intervallo di temperatura di colore correlate che è possibile impostare, arrotondato al 100 K più vicini	2 700 oppure 3 000 oppure 4 000 oppure 5 000 oppure 6 000
Potenza in modo acceso (P _{on}), espressa in W	125,0	Potenza in modo stand-by (P _{sb}), espressa in W e arrotondata al secondo decimale	-
Potenza in modo stand-by in rete (P _{on}) per le sorgenti luminose connesse, espressa in W e arrotondata al secondo decimale	-	Indice di resa cromatica arrotondato all'intero più vicino, oppure intervallo di	93

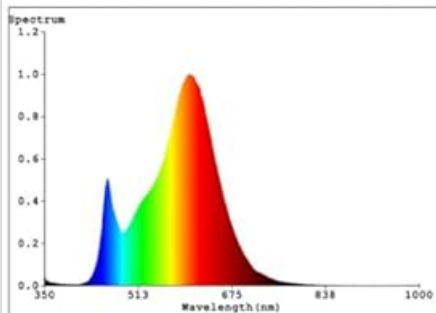
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Dimensioni esterne senza unità di alimentazione separata, parti per il controllo dell'illuminazione e parti senza funzioni di controllo dell'illuminazione, se presenti (mm)	Altezza	5 000	valori IBC che è possibile impostare	Distribuzione spettrale di potenza a pieno carico nell'intervallo da 250 nm a 800 nm	Vedi immagine nell'ultima pagina
	Larghezza	12			
	Profondità	1			
Dichiarazione di potenza equivalente ⁹⁾	-	Se sì, potenza equivalente (W)	-	Coordinate cromatiche (x, y)	0,444 0,402
Parametri per sorgenti luminose direzionali:					
Intensità luminosa di picco (cd)	3 112	Angolo del fascio in gradi, oppure intervallo di angoli del fascio che è possibile impostare	180		
Parametri per sorgenti luminose LED e OLED:					
Valore dell'indice di resa cromatica R ₉	16	Fattore di sopravvivenza	1,00		
Fattore di mantenimento del flusso luminoso	0,96				

(4): non applicabile;

(5): non applicabile;

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Modello immesso sul mercato dell'Unione da 13/04/2023



Numero di registrazione EPREL: 1552272

<https://eprel.ec.europa.eu/q/1552272>

Fornitore: CET PRODUCT SERVICE SP. Z O.O. (Rappresentante autorizzato)

Sito web: <https://www.cetproduct.com/blank-10>

Servizio di assistenza alla clientela:

Nome: CET PRODUCT SERVICE SP. Z O.O.

Sito web:

E-mail: info@cetproduct.com

Telefono: +4971416432251

Indirizzo:

Ul. Długa 33 102

95-100 Zgierz polen

Polonia

Image: An example of a compatible 24V power supply unit (sold separately).



Image: An example of a remote control and LED dimmer unit (sold separately).

Connection Steps:

1. Step 1: Preparation

Gather all necessary components: the 24V LED strip, a 24V power supply, power cords, and a flathead screwdriver. Ensure the power supply is rated for at least 200W for the 5-meter strip.

Your browser does not support the video tag.

Video: This video demonstrates the connection process for the JOYLIT LED strip, including preparation, power input, and power output connections. (Relevant segment: 0:05 - 0:10)

2. Step 2: Connecting the Power Input

Connect the power cords to the input terminals of the 24V power supply. Carefully identify and connect the positive and negative terminals correctly to avoid damage.

Your browser does not support the video tag.

Video: This video demonstrates the connection process for the JOYLIT LED strip, including preparation, power input, and power output connections. (Relevant segment: 0:11 - 0:20)

3. Step 3: Light Strip Connection Power Output

Connect the wires from the LED strip to the output terminals of the power supply. Again, ensure the positive (red wire) and negative (black wire) terminals are connected accurately.

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Video: This video demonstrates the connection process for the JOYLIT LED strip, including preparation, power input, and power output connections. (Relevant segment: 0:21 - 0:33)

4. Step 4: Turn on the Power and Light up the Strip

Once all connections are secure, plug the power supply into a suitable power outlet. The LED strip should illuminate. Remember, the power supply is for indoor use only and is not waterproof.

Your browser does not support the video tag.

Video: This video demonstrates the connection process for the JOYLIT LED strip, including preparation, power input, and power output connections. (Relevant segment: 0:39 - 0:43)

Mounting and Customization:

- **Surface Preparation:** Ensure the mounting surface is dry, clean, and smooth for optimal adhesion.
- **Adhesive Backing:** Peel off the protective film from the 3M adhesive backing on the strip and firmly press the strip onto the desired surface.
- **Cutting:** The LED strip can be cut at designated marks, approximately every 1 inch (2.5 CM), to fit specific lengths. Use sharp scissors to ensure a clean cut.



Image: A pair of scissors poised to cut the LED strip at a designated cutting mark.

- **Heat Dissipation:** For prolonged use, especially in high-brightness applications or enclosed spaces, it is highly recommended to install the LED strip in an aluminum channel. This helps dissipate heat and prolong the lifespan of the strip.

OPERATING INSTRUCTIONS

Once installed and powered, the JOYLIT LED Strip Light operates directly. For dimming functionality, a compatible dimmer is required.

- **Basic Operation:** The strip will illuminate once connected to a suitable 24V DC power supply and the power supply is turned on.
- **Dimming:** If a compatible LED dimmer is installed between the power supply and the LED strip, use the dimmer's controls (e.g., remote control, rotary knob) to adjust the brightness from 0% to 100%.

MAINTENANCE

To ensure the longevity and optimal performance of your JOYLIT LED Strip Light, follow these simple maintenance guidelines:

- **Cleaning:** Gently wipe the surface of the LED strip with a soft, dry cloth to remove dust or debris. Do not use abrasive cleaners or excessive moisture.
- **Physical Inspection:** Periodically inspect the strip for any signs of damage, such as cuts, kinks, or loose connections. Address any issues promptly.
- **Heat Management:** If an aluminum channel is used, ensure it remains free of dust and obstructions to allow for proper heat dissipation.
- **Environmental Conditions:** Ensure the strip remains in a dry, indoor environment, as it is not water-resistant.

TROUBLESHOOTING

If you encounter issues with your JOYLIT LED Strip Light, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
LED strip does not light up.	No power to the power supply. Incorrect wiring (positive/negative reversed). Power supply insufficient or faulty. Strip damaged.	Check power outlet and power supply connection. Verify correct polarity of connections at both power supply and strip. Ensure power supply meets 24V and minimum 200W requirements. Test with another power supply if available. Inspect strip for visible damage.
Uneven brightness along the strip.	Voltage drop over long distances. Insufficient power supply.	Ensure 24V input is used. For very long runs, consider shorter segments or power injection at multiple points. Verify power supply wattage is sufficient for the total length of the strip.
Strip feels hot.	Normal operation (some heat is expected). Insufficient heat dissipation. Operating while coiled.	This is normal. Install in an aluminum channel to improve heat dissipation. Never operate the strip while it is still in the reel.
Dimming function not working.	Dimmer not compatible or faulty. Incorrect dimmer wiring.	Ensure the dimmer is compatible with 24V LED strips and the specific type (e.g., ELV, TRIAC). Check dimmer connections for correct polarity and secure wiring.

SPECIFICATIONS

Attribute	Value
Brand	JOYLIT
Model Number	COB-24V-1600-5M-60K
Color Temperature	6000K Cool White
Indoor/Outdoor Usage	Indoor
Light Source Type	LED (COB)
Power Source	DC 24V (requires at least 24V 200W power supply, sold separately)
Wattage	160 Watts (40W/meter)
Luminous Flux	22000 Lumens (4400LM/meter)
Number of LEDs/Chips	8000 (1600 LEDs/meter)
CRI (Color Rendering Index)	>90 (specifically 92.0)
Strip Width	30MM (1.17 inches)
Length	16.4FT / 5M
Cutable Length	Every 1 inch / 2.5CM
Material	Plastic, Rubber
Lifespan	> 65,000 hours
Water Resistance Level	Not Water Resistant (IP20)
Included Components	LED Strip Only

For detailed product data, refer to the official product information sheet. An example of a product data sheet can be found here: [EPREL Product Information](#)

WARRANTY AND SUPPORT

For specific warranty details and support inquiries, please contact the seller or manufacturer directly. Keep your purchase receipt as proof of purchase.

Manufacturer/Seller Contact Information:

- **Company:** Joyland Electronics.,Ltd
- **EC Representative Address:** 2 Rue Cyprien Bureau 3, 92400 Courbevoie, France
- **Telephone:** 0033606798969
- **Email:** sdh.tech@outlook.com