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› [BLNAN 18W LED Ceiling Light with Motion Sensor \(22cm, 2-Pack\) User Manual](#)

BLNAN LS-CL-I18W-M-C

BLNAN 18W LED Ceiling Light with Motion Sensor (22cm, 2-Pack) User Manual

Model: LS-CL-I18W-M-C

INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your BLNAN 18W LED Ceiling Light with Motion Sensor. Please read this manual thoroughly before installation and use to ensure proper function and safety.



Image: Two BLNAN 18W LED Ceiling Lights with motion sensors installed.

SAFETY INFORMATION

Always follow basic safety precautions when installing and operating electrical products to reduce the risk of fire, electric shock, and personal injury.

- Ensure the power supply is disconnected at the circuit breaker before installation or maintenance.
- Installation should be performed by a qualified electrician if you are unsure.
- Do not install in locations with high humidity or extreme temperatures.
- Do not attempt to modify the product.
- Keep out of reach of children.

PACKAGE CONTENTS

Verify that all components are present before beginning installation:

- BLNAN 18W LED Ceiling Light (2 units)
- Mounting accessories (screws, wall anchors, wire connector)
- User Manual

PRODUCT FEATURES

The BLNAN 18W LED Ceiling Light offers advanced features for convenient and efficient lighting:

- **Integrated Motion Sensor:** Automatically detects movement within a 3.5m range and 120° sensing angle, activating the light.
- **Adjustable Hold Time:** Selectable light duration of 30s, 120s, or 180s after motion detection.
- **Three Lighting Modes:** ON (always on), AUTO (motion + light sensor), and G (motion sensor only).
- **Adjustable Color Temperature:** Choose between 3000K (Warm White), 4000K (Natural White), and 5000K (Cool White).
- **Energy Efficient:** 18W power consumption with 1800LM output, suitable for 5-10m² areas. Standby power is only 0.25W.
- **Ultra-Thin Design:** Modern 2.5 cm ultra-thin profile with backlight for uniform, soft illumination.
- **High Quality Construction:** Uses high-quality SMD2835 lamp beads and V2 flame-retardant polycarbonate material for durability and safety.
- **Easy Installation:** Lightweight polycarbonate material and metal safety cable simplify mounting without needing a ground wire.

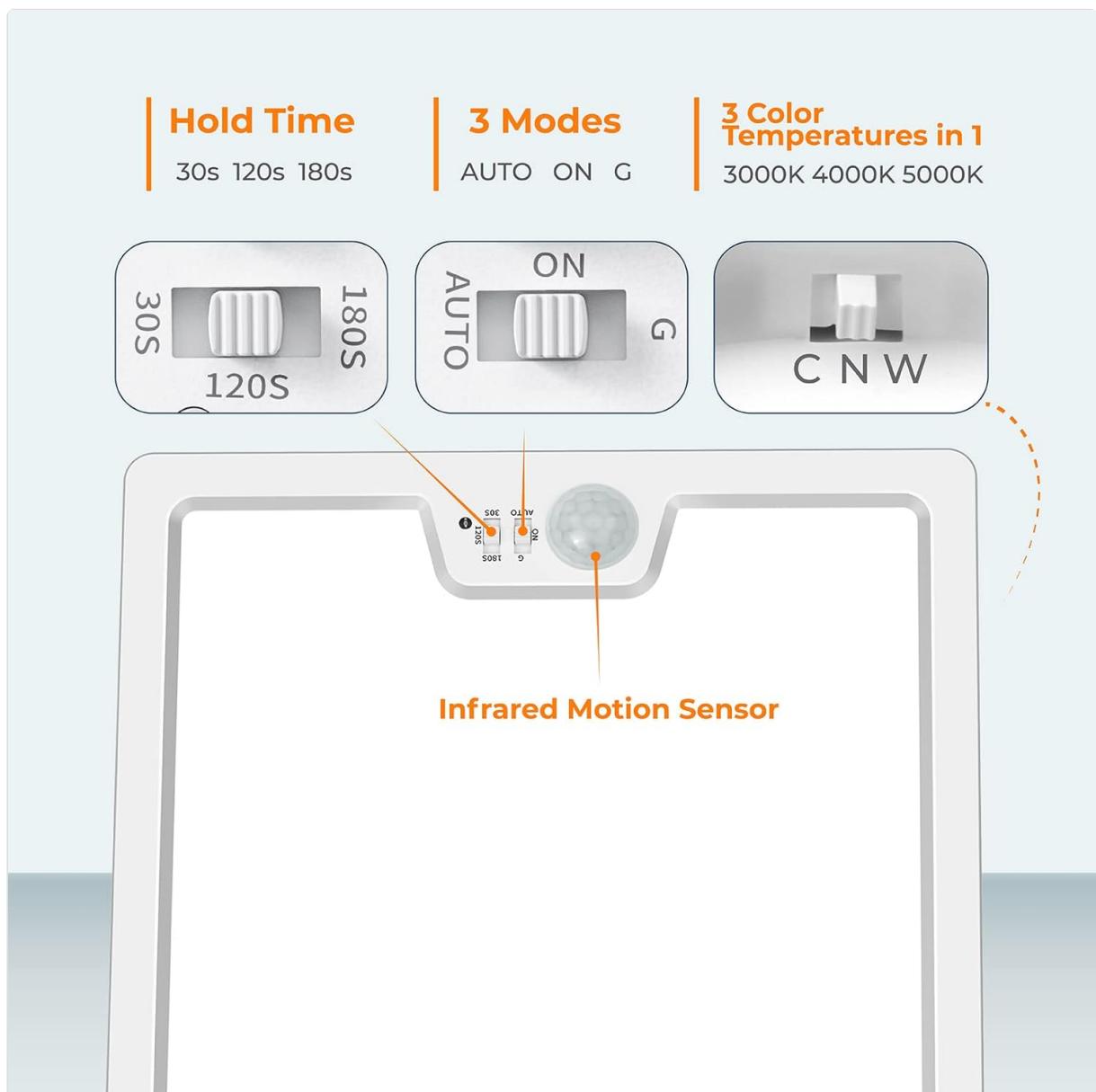


Image: Detailed view of the motion sensor and adjustment switches.

INSTALLATION INSTRUCTIONS

Follow these steps to install your BLNAN LED Ceiling Light:

- 1. Prepare for Installation:** Disconnect the main power supply at the circuit breaker before starting. Ensure the mounting surface is clean and dry.
- 2. Select Color Temperature:** Before mounting, use the slide switch on the back of the light panel to select your desired color temperature (3000K, 4000K, or 5000K). This setting cannot be changed easily after installation.



Image: Adjusting color temperature before installation.

- 3. Mount the Base Plate:** Position the light base on the ceiling or wall. Mark the drilling points. Drill holes and insert wall anchors if necessary. Secure the base plate using the provided screws.

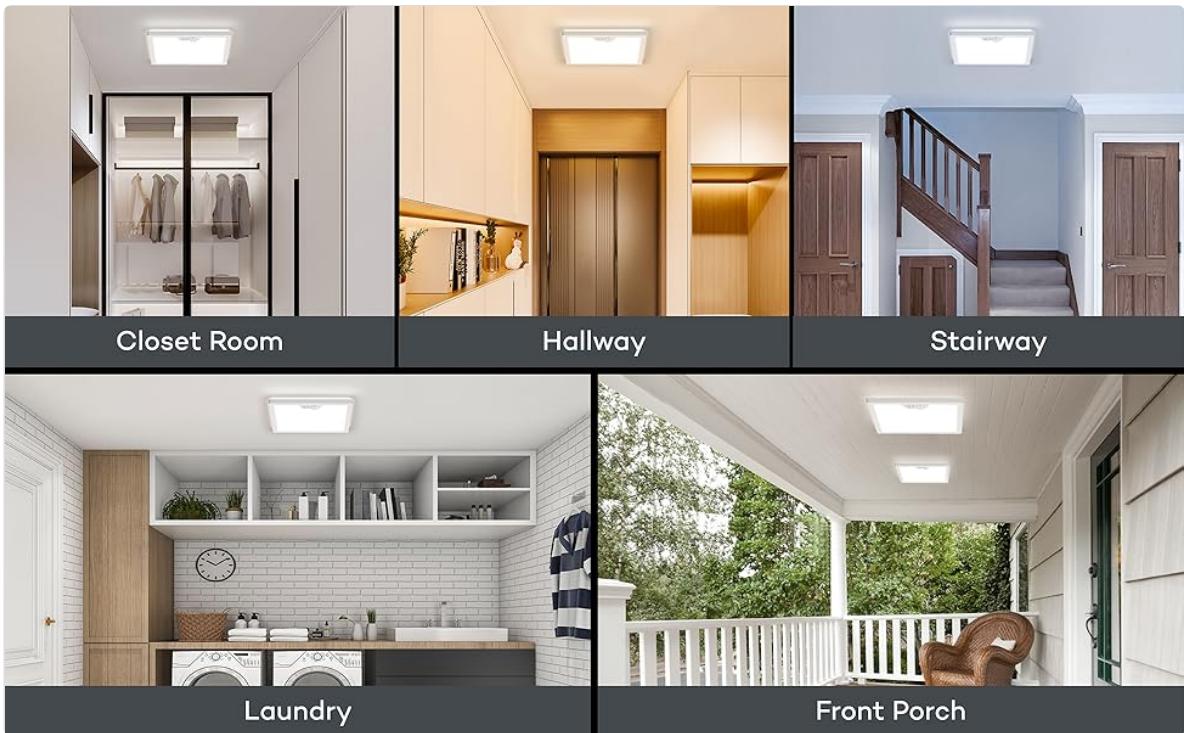
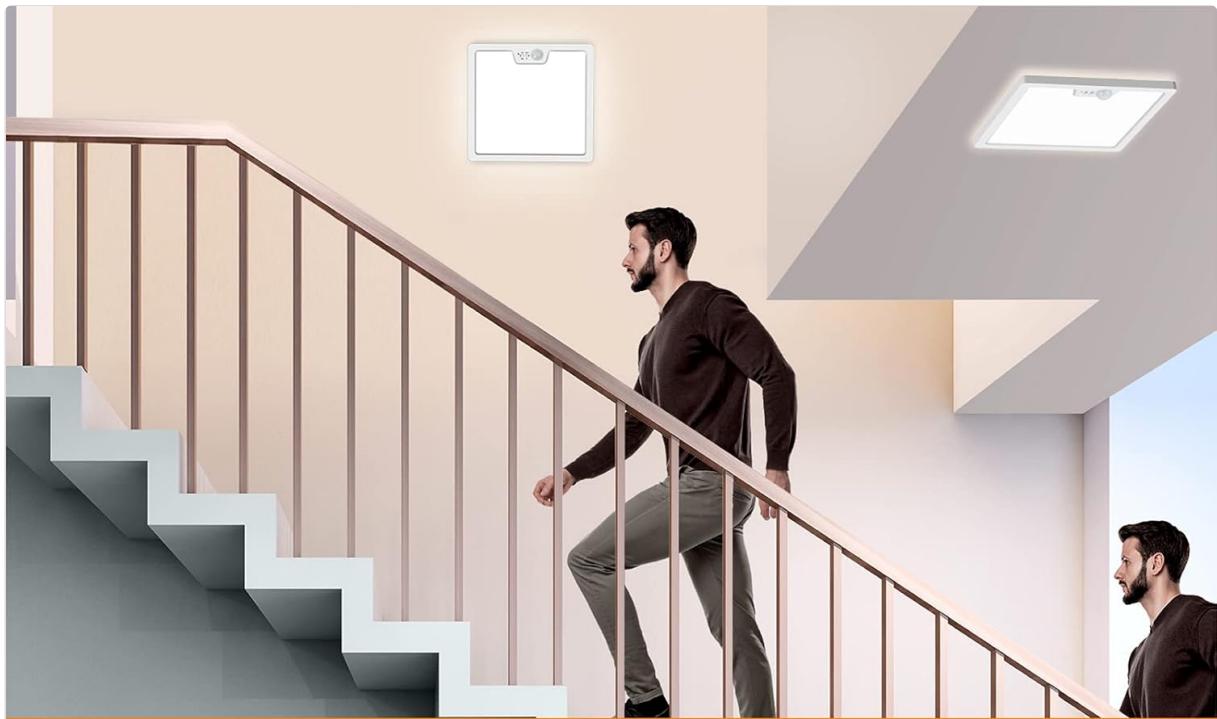


Image: Step-by-step installation guide.

- 4. Connect Wiring:** Hang the light fixture using the metal safety cable to prevent it from falling during wiring. Connect the live and neutral wires from your ceiling to the corresponding terminals on the light fixture using the provided wire connector. This light does not require a ground wire due to its insulated polycarbonate material.
- 5. Attach the Light Fixture:** Align the light fixture with the mounted base plate. Push and rotate the light to securely attach it to the base.
- 6. Restore Power:** Once the light is securely installed, restore power at the circuit breaker.

Recommended Installation Height and Detection Range:

- **Ceiling Mount:** Recommended height 2.4 - 3.5 meters, with a maximum detection range of 6 meters.
- **Wall Mount:** Recommended height 1.8 - 2.4 meters.



2 Installation Methods

Wall Mount



Ceiling Mount

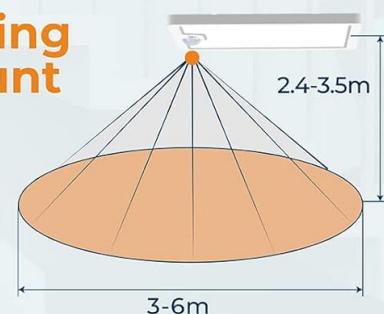
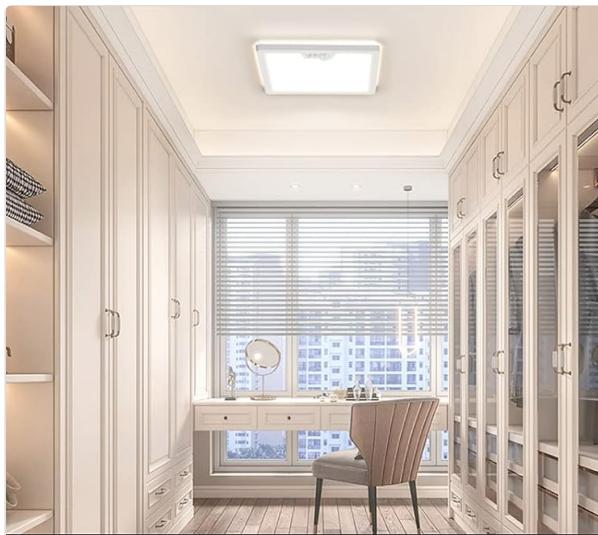


Image: Motion sensor detection range and sensing angle.



Closet



Stairs



Hallway



Porch

Image: Recommended installation heights for wall and ceiling mounting.

OPERATING INSTRUCTIONS

Your BLNAN LED Ceiling Light features adjustable settings for motion detection and light duration.

1. Adjusting Detection Modes and Hold Time

Use the slide switch located on the surface of the light, next to the motion sensor, to select the desired mode and hold time:

3 Modes for Choice



Image: Overview of the three detection modes.

- **ON Mode:** The light will remain continuously on, functioning as a standard ceiling light. Motion detection is disabled.
- **AUTO Mode:** (Motion Sensor + Light Sensor) The light will only activate at night or in low-light conditions when motion is detected. During the day, it remains off.
- **G Mode:** (Motion Sensor Only) The light will activate whenever motion is detected, regardless of ambient light conditions (day or night).

For AUTO and G modes, use the adjacent slide switch to set the light duration (hold time) after motion detection:

- **30s:** Light stays on for 30 seconds.
- **120s:** Light stays on for 120 seconds.
- **180s:** Light stays on for 180 seconds.

2. Adjusting Color Temperature

The color temperature is set using a slide switch on the back of the light panel. This should be adjusted before final installation.

- **3000K:** Warm White light, suitable for cozy environments.
- **4000K:** Natural White light, ideal for general illumination.

- **5000K:** Cool White light, suitable for task-oriented areas.

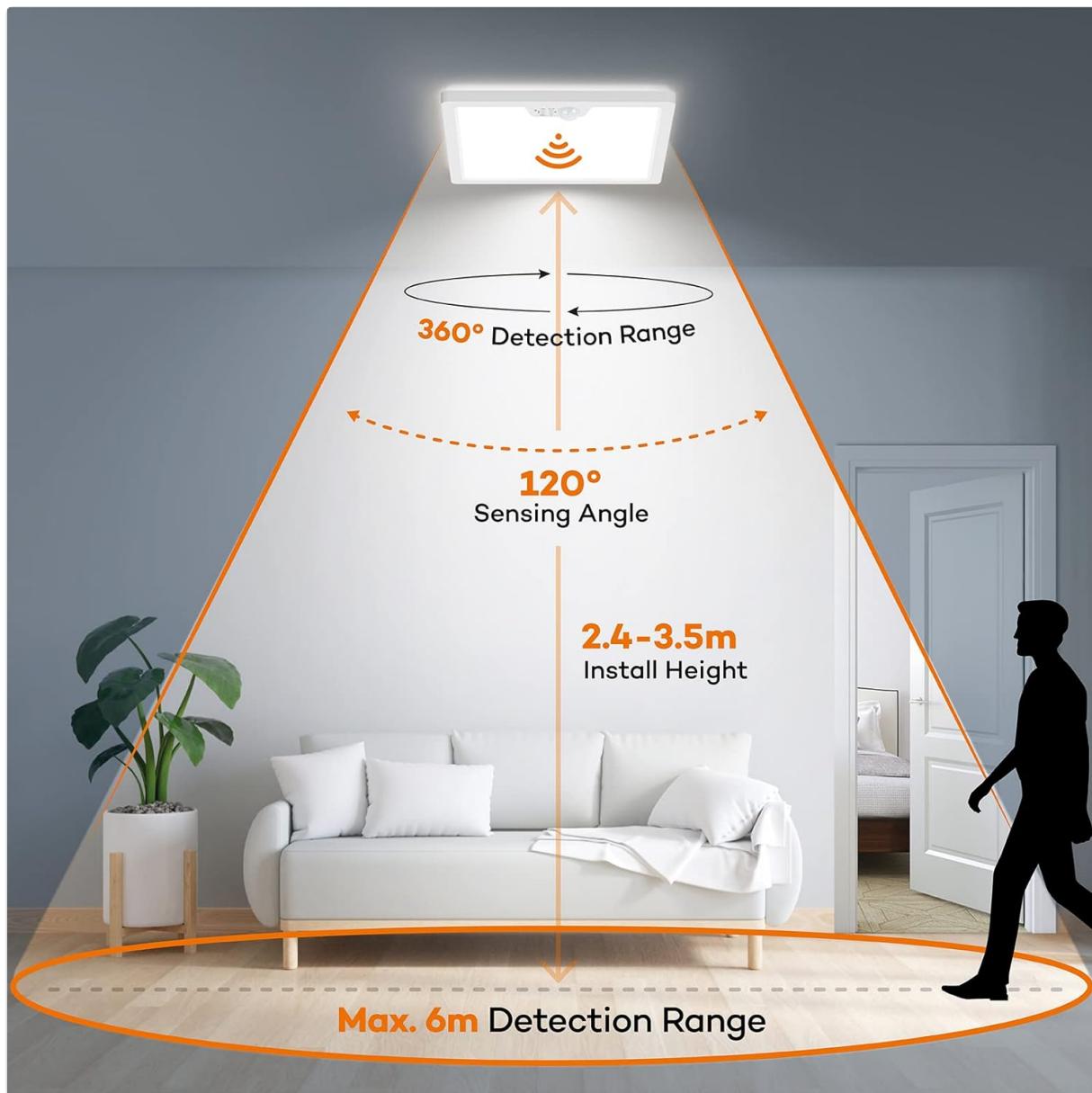


Image: Visual representation of different color temperatures.

MAINTENANCE

To ensure optimal performance and longevity of your BLNAN LED Ceiling Light:

- **Cleaning:** Disconnect power before cleaning. Wipe the surface with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Inspection:** Periodically check for any loose connections or damage. If any issues are found, disconnect power and consult a qualified technician.
- The LED light source is designed for long-term use (30,000 hours) and does not require bulb replacement.

TROUBLESHOOTING

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

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
Light does not turn on.	No power supply; Incorrect wiring; Sensor not detecting motion.	Check circuit breaker and wall switch. Verify wiring connections. Ensure sensor is not obstructed and is set to an appropriate mode (AUTO or G).
Light stays on continuously.	Mode set to "ON"; Constant motion in detection area.	Switch mode to "AUTO" or "G". Ensure there is no continuous movement within the sensor's range.
Light turns on randomly.	Sensor sensitivity too high; Environmental factors (e.g., drafts, small animals, insects).	Ensure the sensor area is clear of obstructions or sources of false triggers. Consider adjusting the sensor's position if possible, or ensure it's not in a high-traffic area if random activation is problematic.
Light does not turn off.	Hold time set too long; Continuous motion.	Check the hold time setting (30s, 120s, 180s). Ensure no continuous motion is detected.
Light only works at night.	Mode set to "AUTO".	If you want it to work during the day, switch the mode to "G".

SPECIFICATIONS

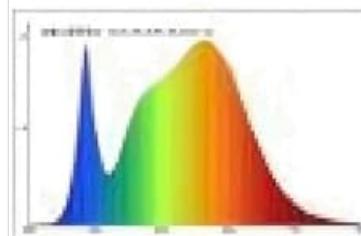
Detailed technical specifications for the BLNAN 18W LED Ceiling Light:

Feature	Specification
Brand	BLNAN
Model Number	LS-CL-I18W-M-C
Dimensions (L x W x H)	22 x 22 x 2.5 cm
Weight	1.05 Kilograms
Material	Polycarbonate (PC)
Power	18 Watts
Luminous Flux	1800 Lumens
Voltage	AC180-240V (230 Volts)
Color Temperature	3000K / 4000K / 5000K (Adjustable)
Color Rendering Index (CRI)	>80
Motion Sensor Detection Angle	120°
Motion Sensor Detection Range	Up to 3.5 meters
Hold Time Settings	30s / 120s / 180s
LED Lifespan	30,000 hours
Energy Efficiency Rating	F (as per EU standards) (EPREL Link)

Feature	Specification
Installation Type	Ceiling Mount
Indoor/Outdoor Use	Indoor

Produktdatenblatt			
DIELEGTE VERORDNUNG (EU) 2019/2013 DER KOMMISSION zur Energieeinsparungsmittelung von Leuchtelementen			
Name oder Handelsmarke des Lieferanten: Shenzhen Longtome Metals Co., Ltd			
Anschrift des Lieferanten: eVmanns Consulting GmbH, Bettinastr. 30, 60325 Frankfurt am Main, DE			
Modellkennung: LS-CL-1880-M-C			
Art der Lichtquelle:			
Versandete Beleuchtungstechnologie:	LED	Ungelenkt oder gebündelt:	CLS
Art des Sozials der Lichtquelle (oder präzise elektrische Schaltstufen):	N/A		
Netzspannung/Nicht direkt an die Netzspannung angeschlossen:	MLS	Vernetzte Lichtquelle (CLS)	Ja
Farblich abstimmbare Lichtquelle:	Nein	Hölle:	-
Lichtquelle mit hoher Leuchtdichte:	Nein		
Blindenschutzschicht:	Nein	Dimmbar:	Ja
Produktparameter			
Parameter	Wert	Parameter	Wert
Allgemeine Produktparameter:			
Energieverbrauch im Ein-Zustand (kWh/1000 h), auf die nächstliegende ganze Zahl gerundet:	18	Energieeffizienzklasse:	E
Nutzlichtstrom (lumen) mit Angabe, ob sich der Wert auf dem Lichtstrom in einer Kugel (180°) oder auf breitem Kegel (120°) oder einem schmalen Kegel (90°) bezieht:	1.680 in Kugel (180°)	Abhängige Farbtemperatur, gerundet auf die nächstliegenden 100 K oder Spanne der einstellbaren: OH-Werte:	3000...4500
Leistungsaufnahme im Ein-Zustand (P _{on}) in W:	37,5	Leistungsaufnahme im Betriebszustand (P _{on}) in W, auf die zweite Dezimalstelle gerundet:	0,42
Leistungsaufnahme im vernetzten Betriebszustand (P _{on}):	8,00	Farbwiedergebnisindex, auf die	84
Seite 114			

Nur CLS in W, auf die zweite Dezimalstelle gerundet	nächstliegende ganze Zahl gerundet, oder Spanne der einstellbaren: OH-Werte
Äußere Abmessungen, BxHxT, ggf. ohne mechanische Beleuchtungssteuerungen, in und nach Beleuchtungseinheit (Millimeter):	220x220x8
Spektrale Strahlungsverteilung im Bereich 250 nm bis 800 nm bei Vollblau	
Spektrale Strahlungsverteilung im Bereich 250 nm bis 800 nm bei Vollblau	
Parameter für Lichtquellen mit gebündeltem Licht:	
Spurleuchtdichte (cd)	625
Halbwertswinkel in Grad oder Tonne der einstellbaren Halbwertswinkel	112
Parameter für LED- und OLED-Lichtquellen:	
Wert des 95%-Lebensdauerfaktors	9
Lebensdauerfaktor	0,94
Parameter für LED- und OLED-Netzspannungsquellen:	
Verschiebungsfaktor (cos φ1)	0,82
Farbkonzentanz in MacAdam Ellipsen	3
Angabe, dass eine LED-Lichtquelle eine Leuchtdichtequelle ohne eingebauten Vorschaltgerät mit einer bestimmten Leistungsaufnahme erzielt, Fiktiver Messwert (Pm, W)	Ja
Fiktiver Messwert (Pm, W)	0,8
Maßgröße für Strahlerheffekte (SVM)	0,3
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Image: Energy Efficiency Label.

WARRANTY AND SUPPORT

For any questions, concerns, or technical support regarding your BLNAN LED Ceiling Light, please contact the seller or manufacturer directly through your purchase platform. Keep your purchase receipt for warranty claims.