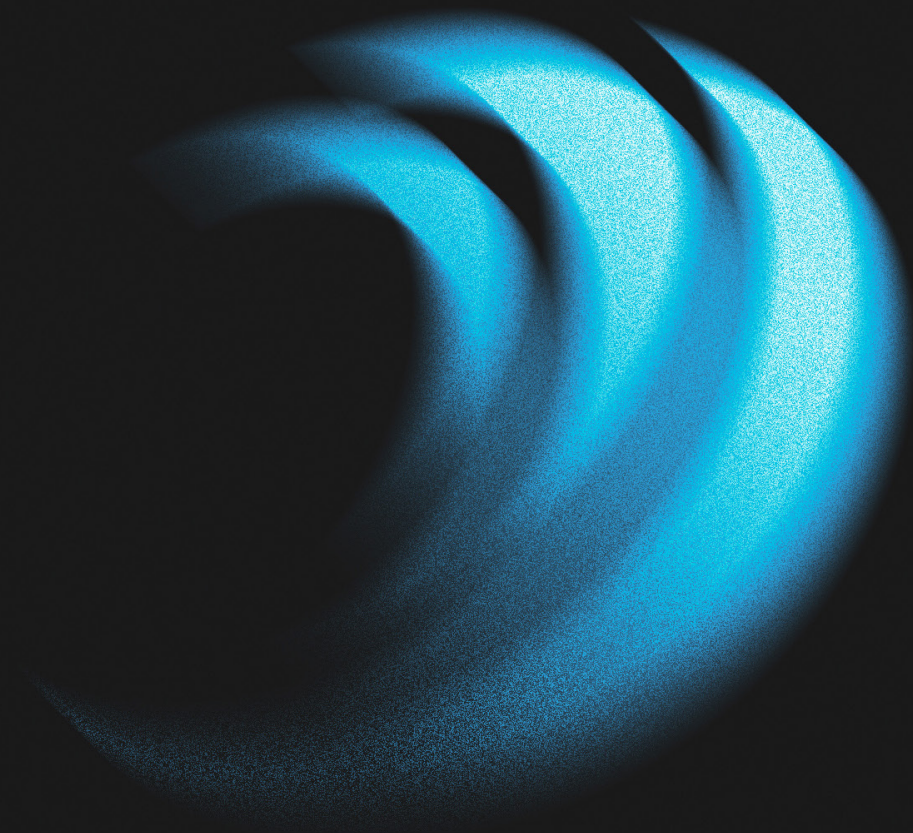




LED

RIGID BAR BP50

DC 12/24V
EDGE-LIT RIGID BAR





BP50 | Edge-Lit Rigid Bar

FEATURES

- Adopt 2835SMD
- 1.6 mm thick aluminum PCB for excellent heat dissipation, ensuring long LED lifespan.
- Cuttable design: 1 or 2 LEDs per cut, adjustable as needed.
- Support PWM, 0-10V, and DALI dimming.
- Multiple specifications, support customization.

APPLICATION

- Suitable for double-sided edge-lit light boxes with a depth of 5-10 cm and a reaching distance of up to 1.2 m.

OPTICAL & ELECTRICAL PARAMETERS



Model No.	Voltage	Ra	Color	CCT (K)	Typical Luminous Flux Value(Lm/pcs)	Efficacy(Lm/W)	Power(W/pcs)
BP50-51020	12/24V DC	>80	W	3000-12000	1049	95	11
BP50-91036	12/24V DC	>80	W	3000-12000	1888	95	20

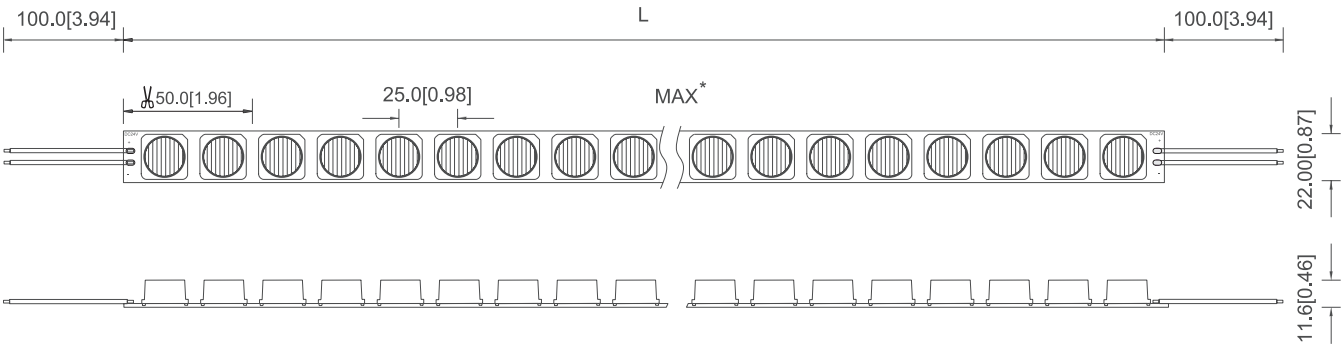
OTHER PARAMETERS

Model No.	LED Qty/pc	Product Size L*W*H (mm)	Max Run (pcs)	Working Temperature	Storage Temperature
BP50-51020	20	510*22*11.6	6	-20~+60°C	-20~+70°C
BP50-91036	36	910*22*11.6	3	-20~+60°C	-20~+70°C

- NOTE:
- Test environment temperature : 25±2°C.
 - Figures above are typical figures. Actual figures could be different with typical figures, and the data is subject to change without notice.
 - The above luminous flux data is based on corresponding light colors.
 - Different color temperature will make luminous flux different.
 - The luminous flux and power error is ±10%.
 - Max run is based on double feed.
 - Do not use in environments above 60 °C.

PROFILE DRAWINGS

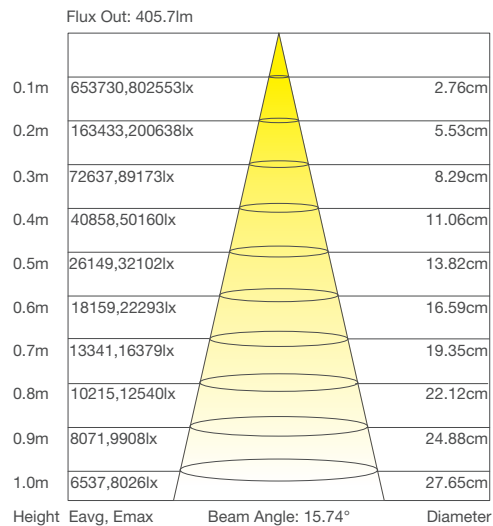
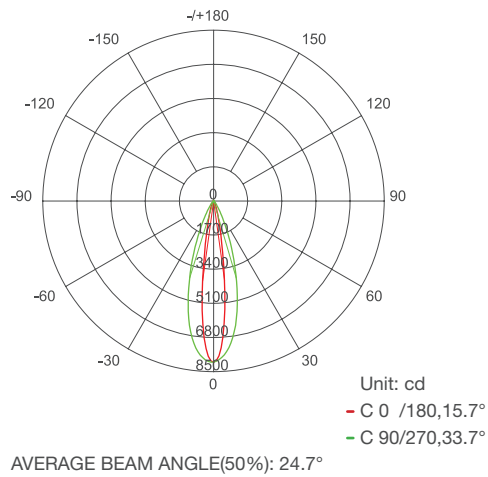
Unit: mm[inch]



Wire sequence

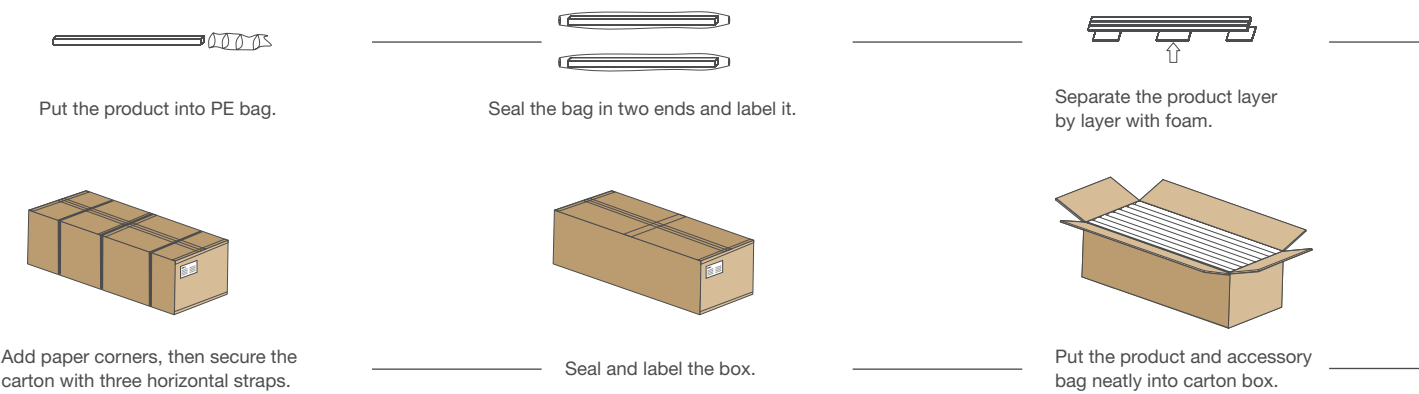
- Gray wire: Positive input (+)
- White wire: Negative input (-)

Note:
Tolerances: length ±1 mm, width ±0.2 mm, thickness ±0.2 mm.
For detailed dimension drawings, please contact our sales team.
MAX indicates the max run quantity.



Note: the above two figures are tested with the sample BP50-91036-15×35°, for other data, please consult sale rep.

PACKAGING INFORMATION

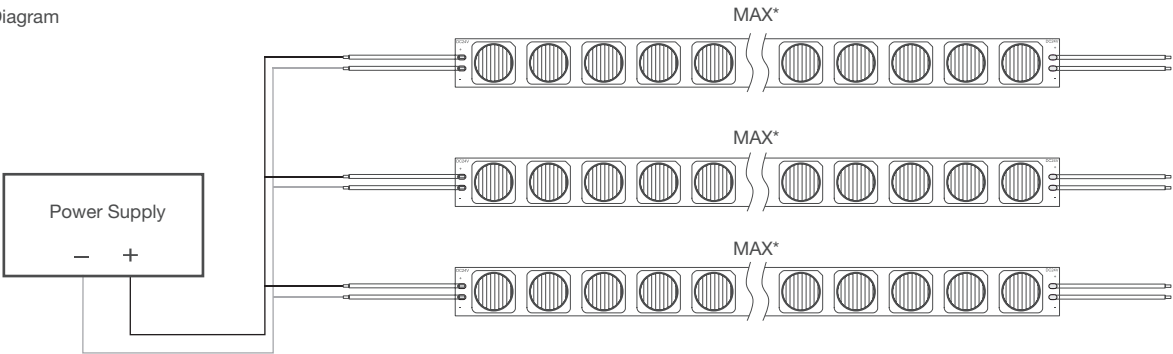


Model No.	Product Size L*W*H (mm)	Carton Size (mm)	pcs/Carton	Net Weight (kg)	Gross Weight (kg)
BP50-51020	510*22*11.6	685*295*275	120	9.54(1±10%)	11.25(1±10%)
BP50-91036	910*22*11.6	1175*295*180	80	13.58(1±10%)	15.12(1±10%)

Note:
Shipping materials: PE bags and carton box.
The above quantity and weight are only for the illustrated packaging method. There will be differences in the quantity and weight with other packaging methods.

INSTALLATION

Connection Diagram

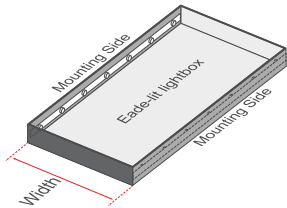


Note: Max means max run quantity.

BP50-910-15×35

Light Box type	Lighting Mode	Surface Material	Width(m)	Depth H (cm)	Power Density (W/m²)	Installation Density (pcs/2m)	Illumination (Lux)	Evenness
Double-Sided Light box	Double-Sided	White pearl fabric	1.0	5	40.0	1*2	2500-3000	0.83
			0.8	8	50.0		2240-2600	0.86
			1.0	8	40.0		1916-2100	0.91
			1.2	8	33.3		1630-1750	0.93
			1.0	10	40.0		1650-1850	0.89
			1.2	10	33.3		1409-1685	0.84

Note:
The density is within a light box of 1 square meter. PCS/m indicates the product quantity installed on single side, and PCS/2m indicates the quantity of double-sided installation.

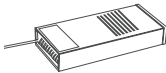


Note:
The density refers to product quantities installed on the mounting side, and "1*2" refers to 2 mounting sides and each side with 1pc.

The spacing means centre spacing of the product, see the left.

The above products use porcelain whiteboard.

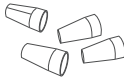
ACCESSORIES & TOOLS



LED power supply

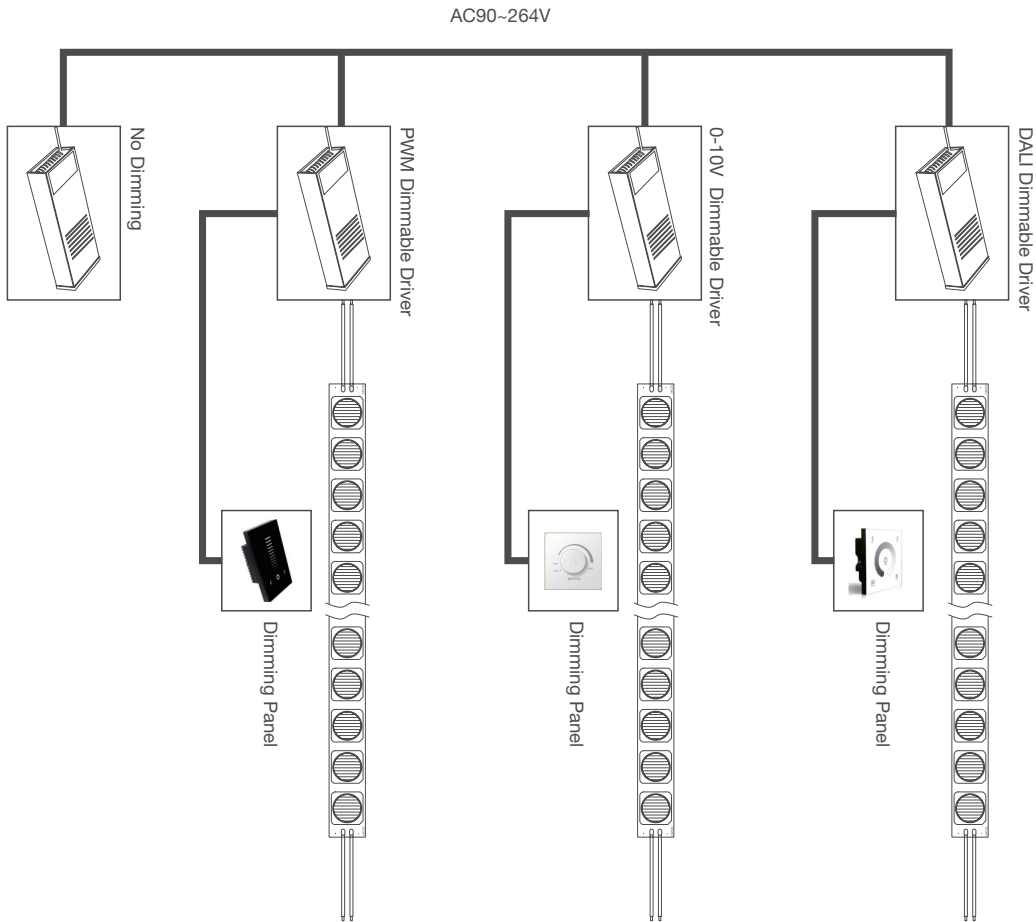


Diagonal pliers



Connection Terminal

SUPPORTED DIMMING METHODS AND WIRING DIAGRAM



ATTENTIONS BEFORE INSTALLATION

- Before installation, please check whether the parameters of the product are consistent with the requirements (Seeing the Product Specification or Label).
- The voltage, current, and power of the power supply and load used must be consistent with this product.
- Follow the instructions of wiring diagram (first connect the load and then the power supply) to avoid short circuit.
- Product wires must be correctly connected to the positive and negative terminals of the power output, otherwise the light will not turn on.
- The power cord should be tightly screwed into the terminal, with a recommended tightness that cannot be pulled out by hand.
- The connection terminals must be effectively waterproof and corrosion-resistant.
- **After installing this product in the lightbox, cover with fabric within 48 hours. Avoid leaving it unused or idle for extended periods.**
- **The products must be installed on the profile with thermal conductivity. If not, auxiliary heat dissipation profiles must be used**

WARNING

- Do not disassemble or retrofit the light. Do not touch the surface of the light with a sharp object.
- Do not do live-line working during installation,especially for high voltage product.
- Do not use any organic chemical solvents.
- Use neutral glass adhesive to fix this product and it needs to be dried 4 hours in the open environment after operation.
- Treat the ends and the circuit connection points that are not connected to the main line with insulation,waterproof, and anti-corrosion in the installation.
- Use 18AWG (0.75mm² cross-sectional area) or thicker core wire to avoid adverse consequences caused by overheating, if the power cable need to lengthen.
- Make sure the input voltage meets the requirements and lines are connected correctly before lighting on.
- This product is for signage, and do not use as general lighting.
- Series connection within the max run.
- The length of the power cable between the power supply and the led strip should not exceed 2 meters.Otherwise, large circuit loss will lead to inconsistent brightness.
- Installation, maintenance and repair should be operated by a qualified technician.

Version	Content	Date
A1.0	First release	2025-12-17

BLUEVIEW ELEC-OPTIC TECH CO.,LTD

- ☐ Tel: +86-28-8148 0011

☐ Web.: www.blueviewled.com

☐ Fax: +86-28-8148 1258

☐ Email: sales@blueviewled.com
- ☐ Add.: No. 1000, Section 2, Konggang 2nd Road, Shuangliu, Chengdu 610207, Sichuan, CHINA