

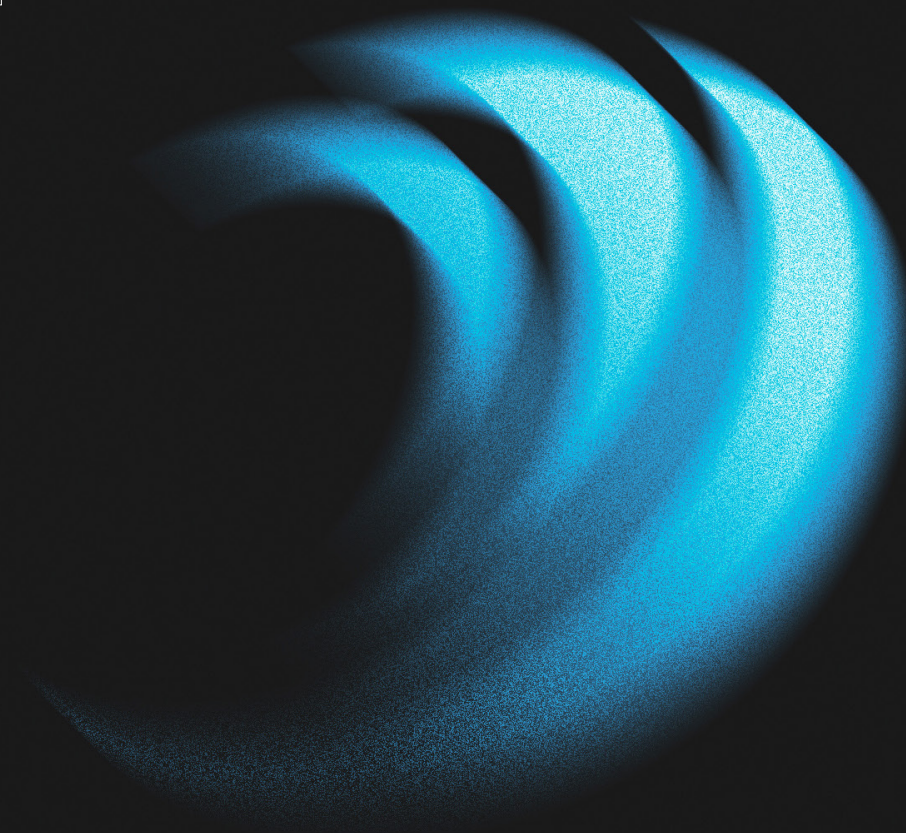


LED

RIGID BAR

DC 24V
BACK-LIT

BP2-W
HIGH EFFICIENCY





BP2-W (High Efficiency) | BACK-LIT

FEATURES

- Suitable for edge-lit lightbox with with a spacing of up to 2 m.
- Light box surface uniformity reaches over 0.6.
- Features a custom secondary optical lens.
- Cuttable and easy installing.
- Multiple length optional,customizable.
- Support PWM, 0-10V, DALI and DMX dimming



APPLICATION

- Suitable for above 8cm deep edge-lit lightbox.

OPTICAL & ELECTRICAL PARAMETERS

Model No.	Voltage	Ra	Color	CCT (K)	Typical Luminous Flux Value(Lm/pcs)	Efficacy(Lm/W)	Power(W/pcs)
BP2-W-0510 (High Efficiency)	24V DC	>80	W	3000-10000	1305	145	9.0
BP2-W-0918 (High Efficiency)					2349	145	16.2

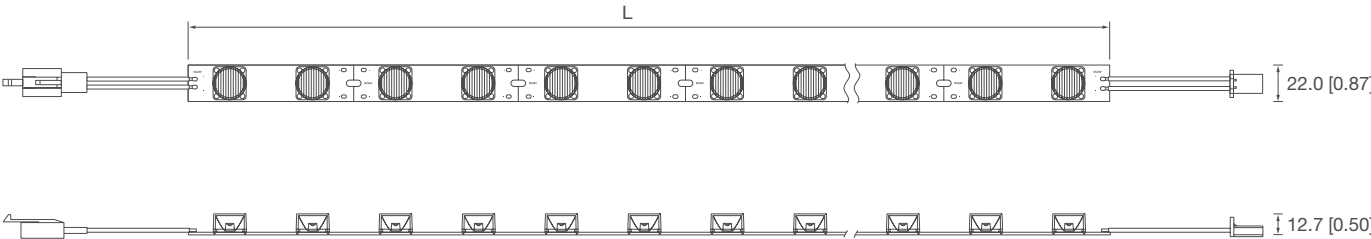
OTHER PARAMETERS

Model No.	LED Qty/pc	Product Size L*W*H (mm)	Standard Run (pcs)	Working Temperature	Storage Temperature
BP2-W-0510 (High Efficiency)	10	500*22*12.7	4	-20~+60°C	-20~+70°C
BP2-W-0918 (High Efficiency)	18	900*22*12.7	2		

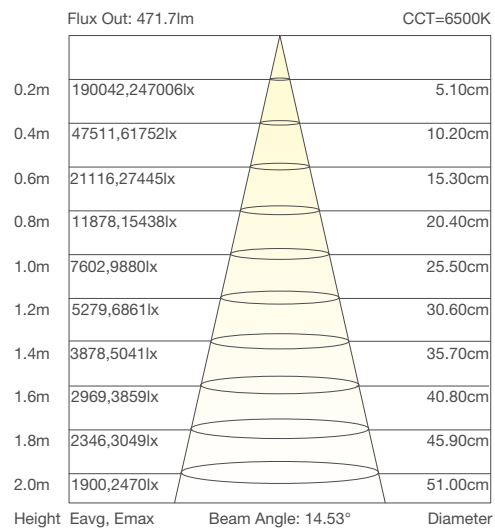
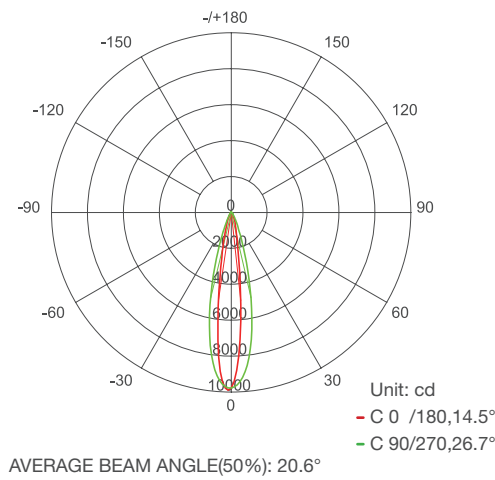
- NOTE:
- Test environment temperature : 25±2°C.
 - Figures above are typical figures. Actual figures could be different with typical figures, and the data is subject to change without notice.
 - The above luminous flux data is based on corresponding light colors.
 - Different color temperature will make luminous flux different.
 - The luminous flux and power error is ±10%.

PROFILE DRAWINGS

Unit: mm[inch]



- Note:
- AMPR terminals are used at both ends
 - Dimension tolerance: length ±1mm; width ±0.2mm; height ±0.2mm.
 - For detailed drawing, please consult sales rep.



Note: the above two figures are tested with the sample BP2-W-9018 at 6500K. For other data,please consult sale rep.

PACKAGING INFORMATION

Place the product into a prepared PE bag.

Seal both ends of the PE bag and attach the corresponding label.

Use foam padding to separate each product layer.

Add edge protectors, then secure with three packing straps.

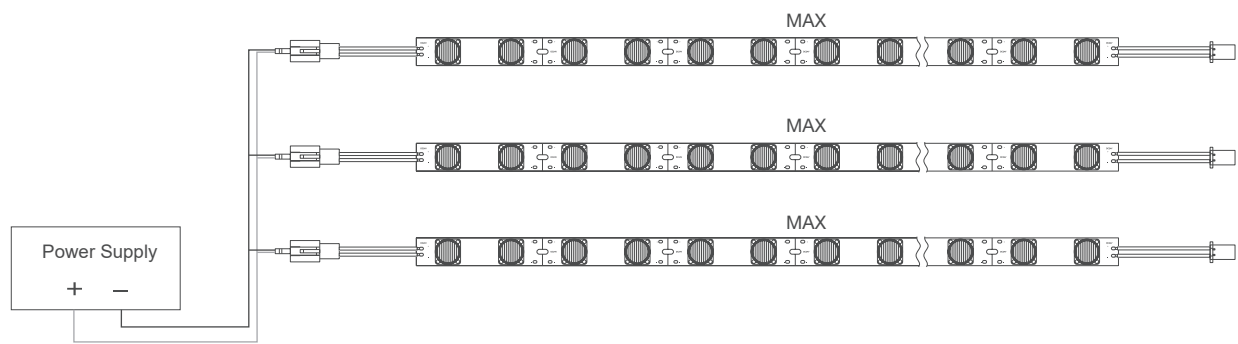
Seal and label the box.

Put the product neatly into carton box.

Model No.	Product Size L*W*H (mm)	Carton Size (mm)	Pcs/Carton	Net Weight (kg)	Gross Weight (kg)
BP2-W-0510 (High Efficiency)	500*22*12.7	550*400*340	180	7.20(1±10%)	8.50(1±10%)
BP2-W-0918 (High Efficiency)	900*22*12.7	1000*185*185	35	5.50(1±10%)	6.80(1±10%)

- Note:
- 1. Packing material:PE bag and carton box
 - 2. 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

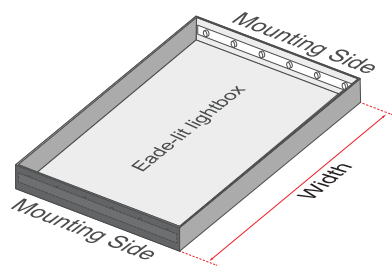


Note:the "MAX" here means the max run quantity.

BP2-W-0510 (High Efficiency)

Light Box type	Lighting Mode	Surface Material	Width(m)	Depth H (cm)	Watt Density (W/m²)	Density (pcs/2m)	Illumination (Lux)	Evenness
Double Side Light box	Double Side	White pearl cloth	1.0	8	35.3	1*2	2550-3020	0.84
			1.2	8	35.3	1*2	2040-2790	0.73
			1.5	8	35.3	1*2	1440-2440	0.59
			1.0	10	35.3	1*2	2350-2750	0.85
			1.2	10	35.3	1*2	1950-2450	0.80
			1.5	10	35.3	1*2	1450-2150	0.67
			2.0	12	35.3	1*2	1100-1930	0.57
			2.0	15	35.3	1*2	1450-2150	0.67

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.

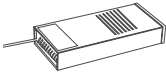


Notes:
The density refers to product quantities installed on the mounting side, and "1*2" refers to 2 mounting sides and each side with 1pcs.

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

The above products use porcelain whiteboard.

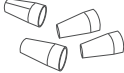
ACCESSORIES & TOOLS



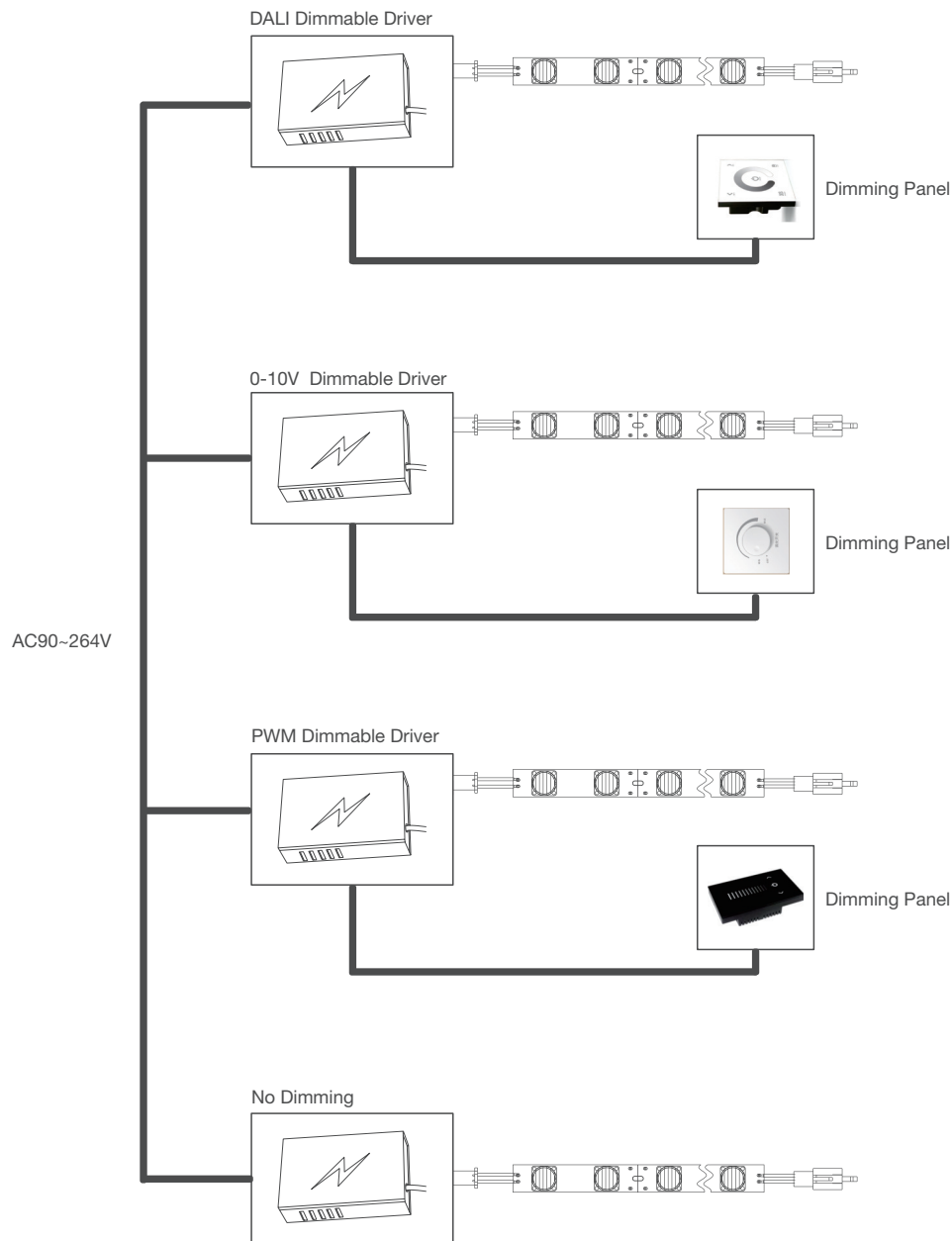
LED power supply



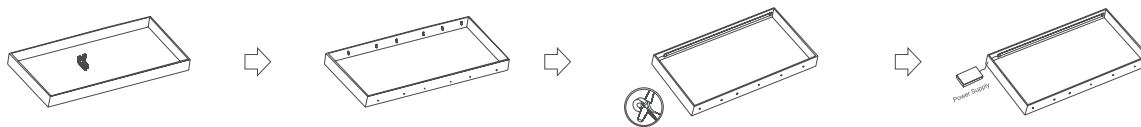
Diagonal pliers



Connection Terminal



INSTALLATION STEPS



1. Clean the mounting surface.
2. Arrange the mounting space.
3. Peel away the self adhesive tape on the rear of product and evenly mounting the product with appropriate space.
4. For bare wire connection, please use terminals.
Treat the thread with insulation, waterproof, and anti-corrosion arrangement as it cannot pull out by hands.
5. Check and ensure correct installation, and fix the product with screws, then power on for self-test.

Note:

Screw to avoid welding plate, avoiding short circuit

When fastening the screw, make sure to add plastic gaskets to insulate the screw from the LED panel.

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	2025-9-3

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