RIGID BAR

BPS300-S

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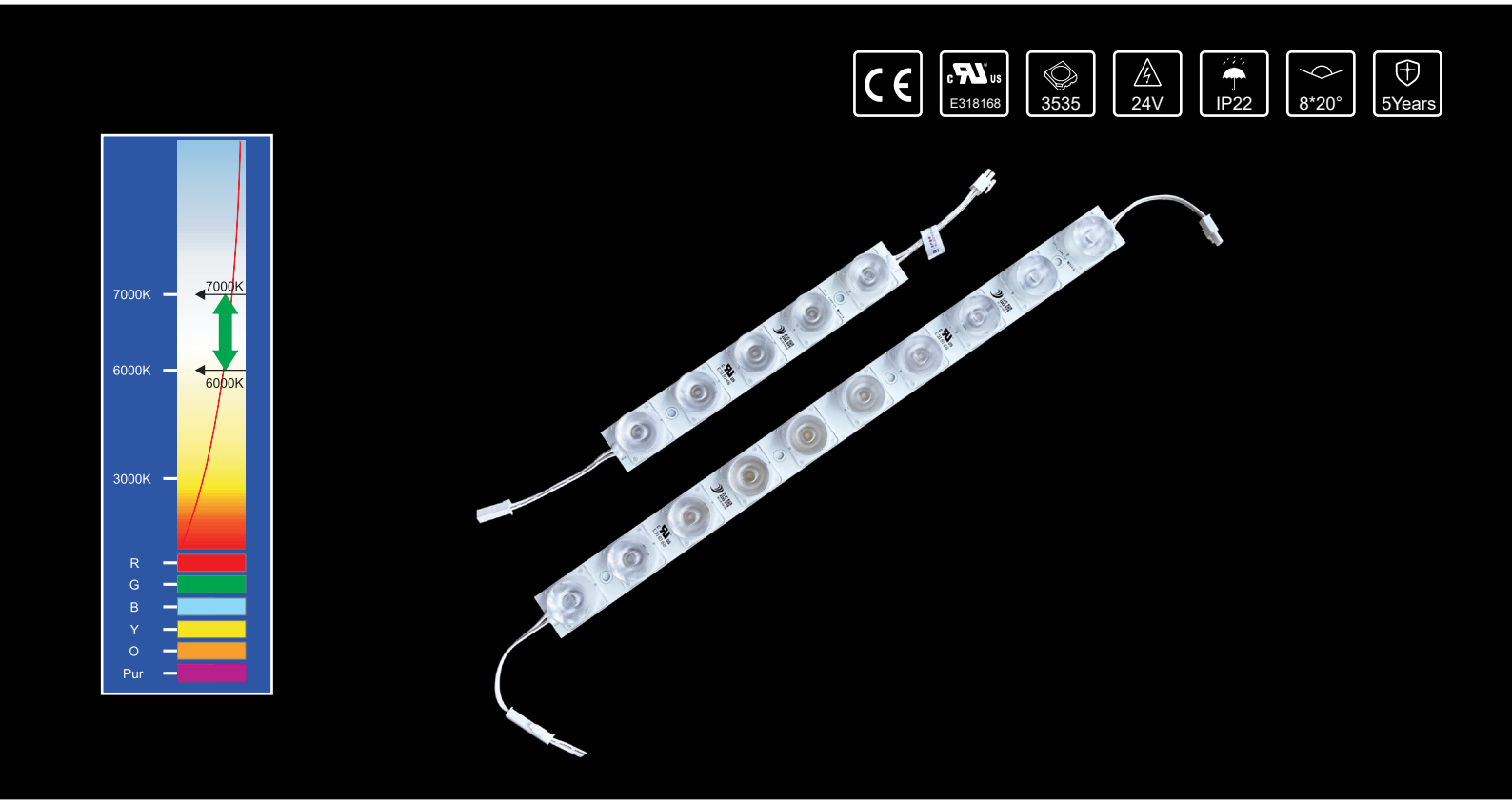

Features

1. Imported high-power SMD 3535Led;
2. Adopt special secondary light distribution lens;
3. Uniform light distribution, no dark spots or stripes;

Application

Suitable for double-sided light box with 10-15cm depth and 3m reaching distance

Installation

Fix by adhesive tape or screw

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Specification

Model No.	Light Color	Color Temperature(K)	Beam Angle	Typical Luminous Flux value(lm/pcs)	Ra	Efficacy (lm/W)	Voltage (V DC)	Power (W/pcs)
BPS300-S5	W	6000-7000	8*20°	1188	80+	110	24	10.8
BPS300-S10				2376				21.6

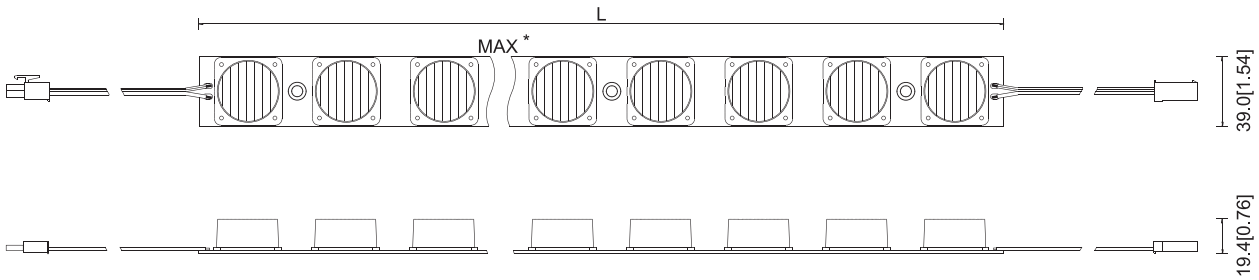
Other Parameters

Model No.	LED Quantity/pcs	Product Size L*W*H(mm)	Max Run(pcs)	Working Temperature	Storage Temperature
BPS300-S5	5	275*39*19.4	5	-20~+60℃	-20~+70℃
BPS300-S10	10	550*39*19.4	3		

NOTE:
1. Test environment temperature : 25±2°C.
2. The above data is typical values. The actual data of each single product may differ from the typical values. The data is subject to change without notice.
3. Luminous flux is tested when lighting on with the single color.
4. Different color temperature will make luminous flux different.
5. The Luminous flux and Power tolerance within ±10%.
6. Max run is in single feed

Profile Drawings

Unit:mm[inch]



AMPR terminals are used at both ends
"MAX" means max run
For detailed drawing, please consult sales rep.

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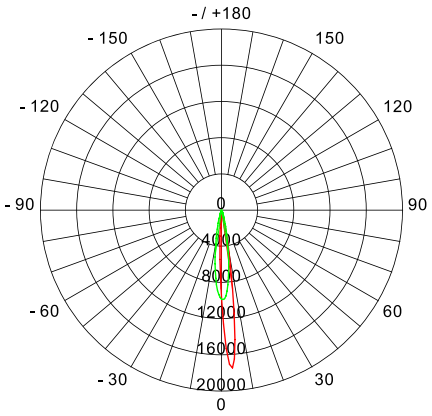
Luminous Intensity Distribution Diagram



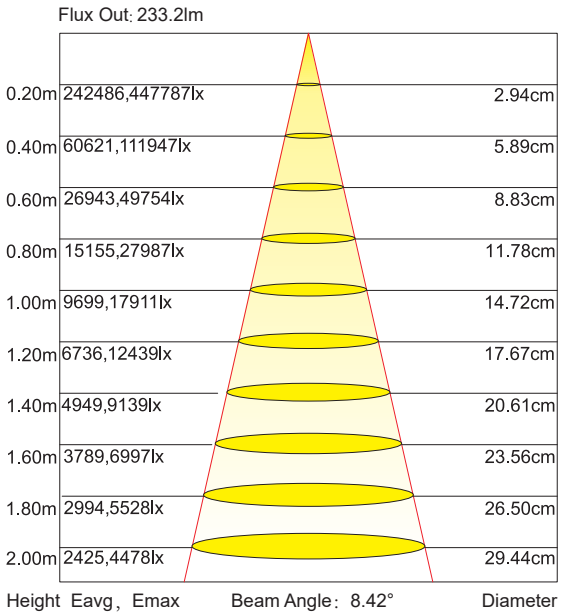
Unit：cd

C0 /180,8.4°

C90/270,17.2°

AVERAGE BEAM ANGLE(50%)：12.8°

Average Illumination



NOTE:The above two figures are tested with the sample BPS300-S5 , for other data, please consult sales rep.

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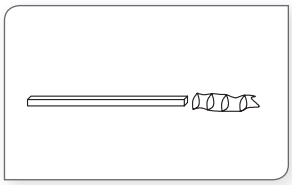
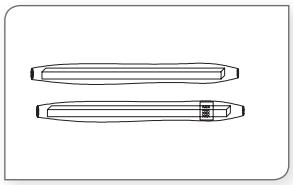
Reliability Test

Test Sort	Test item	Reference Standard	Test condition	Test result
Environmental test	PTC test	Blueview standard	TH=-40~60°C, continuous cycle, every 2 hours per times (normal temperature for 15 min, temperature rise and fall for 45 min)	PASS
	High Temperature Resistance Test		TH=60/80°C, continuous lightened up	
Other tests	Tensile testing		Test the peel strength of the wire	
	Drop test		Drop the samples from 1m, 1.5m, 2m heights respectively to observe the sample status	

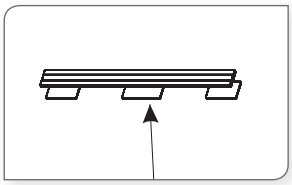
packing



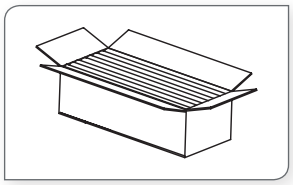
Put the product into PE bag.



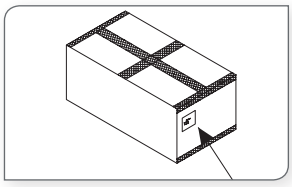
Seal the bag in two ends,and label it.



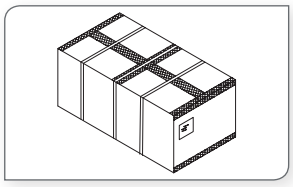
Separate the product layer by layer with foam



Put the product into carton box.



Seal and label the box.



Use packing belt to pack. Add edge protectors if necessary.

Packaging information

Model No.	Product Size L*W*H(mm)	Carton Size(mm)	Pcs/carton	Net Weight(kg)	Gross Weight(kg)
BPS300-S5	275*39*19.4	550*400*340	80	9.15(1±10%)	10.55(1±10%)
BPS300-S10	550*39*19.4	685*295*275	60	13.15(1±10%)	15.50(1±10%)

Note:

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.

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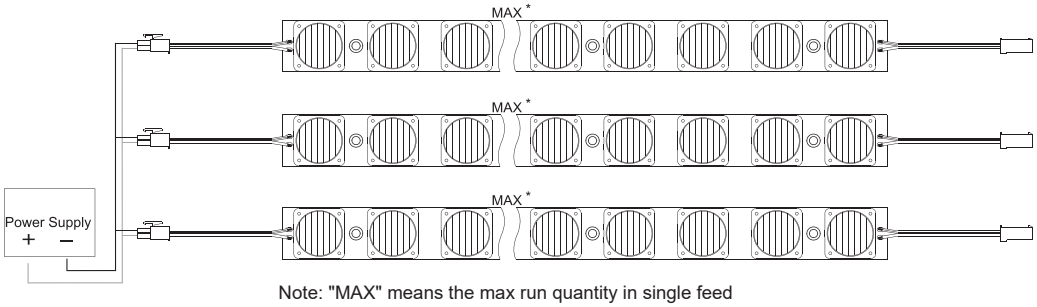
Installation

1.Connection Diagram



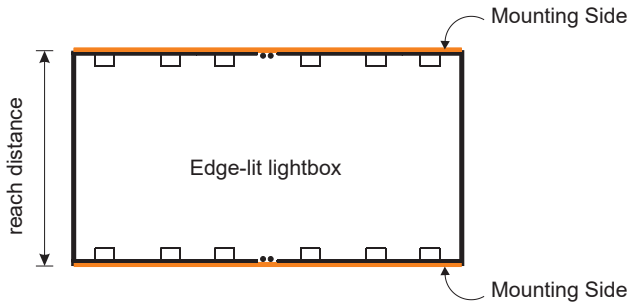
Note: "MAX" means the max run quantity in single feed

2.Installation Reference

Model No.	Light Box type	Lighting Mode	Surface Material	Width(m)	Depth H(cm)	Watt Density (W/m)	Density (pcs/2m)	Illumination (Lux)	Evenness
BPS300-S10	Double Side Light box	Double Side	White Pearl cloth	2	15	86.4	2*2	2610-2970	0.88
				2	10			1800-2350	0.77
				2.5	10			1235-2050	0.60
				3	10			950-1840	0.52
				3	12			845-1460	0.58

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.



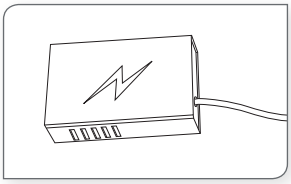
Note:

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

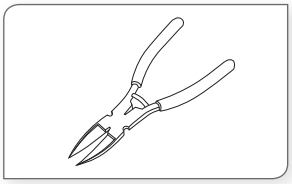
The spacing means centre spacing of the product, see the left.

The above products use porcelain whiteboard.

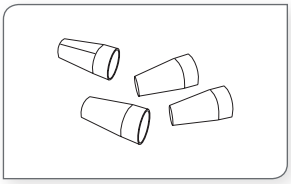
3.Products and Tools



LED power supply



Diagonal pliers



Connection Terminals

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Attentions before installation

After installing, the light box must be covered with cloth within 48 hours; Do not use the product without covering or long-term idle after installed.
The products must be installed on the profile with thermal conductivity. If not, auxiliary heat dissipation profiles must be added.
Before installation, check that the product parameters are consistent with the requirements (Seeing product specifications or product labels)
Load voltage, current, power and power supply should be matched with the product.
Follow the instructions of wiring diagram (first connect the load and then the power supply) to avoid short circuit.
Make sure the correct connection of positive and negative poles between products and power supply. Otherwise, the light will not be on.
Make sure the power cord firmly screwed into the terminal and it should not be pulled out by hands.
The terminal should have insulation,waterproof and anti-corrosive treatment.

Common Faults and Troubleshoot

Quick Guide		
Problems	Reasons	Solutions
All LEDs can not light on.	No electric supply.	Power on
	Automatic power protection from the open or short circuit in output of the power supply.	Fix the short circuit problem.
	Wrong connection of power supply.	
LEDs can not light on partly.	Some switching mode power supplies are not powered.	Check the power supply system to fix it.
	Power supply line error.	
	Mistaken wire connection of some of products	Correctly connection
Brightness of LED is inconsistent tor insufficient.	Power overloaded.	Replace with more powerful power
	Power supply circuit excessive consumption.	Make sure the working voltage of the product within ±5% of standard voltage, or keep balance by circuit power consumption.
	Excessive quantities in series connection of the product	Reduce the quantities of the product in series connection to meet requirement.
LED flicker.	Connection point fault.	Remove bad connection point.
	Switching power supply failure.	Replace a new power supply.
	Wrong Installation or use of products	Please follow the instructions

⚠ 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.

Statements and Recycling

Statements:

Repair should be operated by a qualified technician, if the external circuit or main line of this product is damaged.
The parameters given in this manual are typical values and for reference only.
All illustrations and drawings in this manual are for reference.
This product is subject to change without notice.

Recycling:

LED lighting products belongs to electronic products, please do recycling treatment according to the relevant WEEE directives.

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