

## Features

1. Self-designed secondary lens for uniform light.
2. Aluminum PCB for direct and quick heat dissipation
3. Curtain style for easy mounting.
4. Exclusive designed clips for easy installing and beauty appearance.
5. Single LED can be cut, multiple specifications, customization available.

## Application

Suitable for back-lit lightbox with depth of 4-12cm, signage lighting, etc.

## Installation

Fix by screws

**Cod.  
AV0118NBET-E**
**Specification**

Model No.	Light Color	Color Temperature(K)	Beam Angle	Typical Luminous Flux value(lm/pcs)	CRI	Efficacy (lm/W)	Voltage (V DC)	Power (W/pcs)
-	W	3000-9000	180°	780	80+	130	12	6
-				910			24	7
-				1430			12	11
AV0118NBET-E				1560			24	12

**Other Parameters**

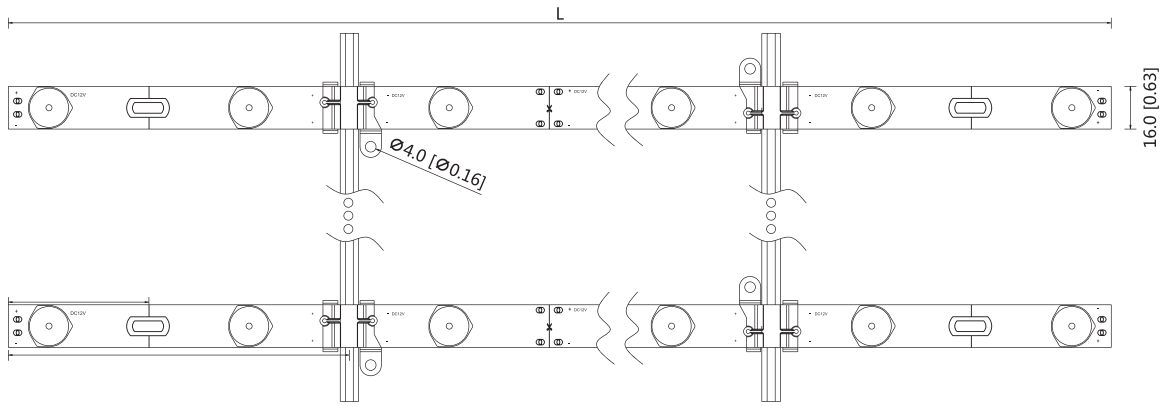
Model No.	Quantity (LED Qty/pc)	Product Size L*W(mm)	Standard Run (pcs)	Max Run (pcs)	Working Temperature	Storage Temperature
-	7	480*16	10	15	-20~+60°C	-20~+70°C
-	8	515*16		15		
-	13	930*16		10		
AV0118NBET-E	14	930*16		10		

**NOTE:**

1. Test environment temperature : 25±2°C.
2. If the lamp beads of different types are selected, the color temperature and luminous flux will be different, The data is subject to change without notice.
3. Different color temperature will make luminous flux different.
4. Luminous flux above tested at 6000-6500K.
5. If the brightness is uneven, should use double feed mode;
6. The Luminous flux&power tolerance within ±10%.
7. Standard run means packing quantity. The max run refers to the product quantity when it is in use.
8. Double feed is required when the light is uneven.

**Profile Drawings**
**Unit:mm[inch]**

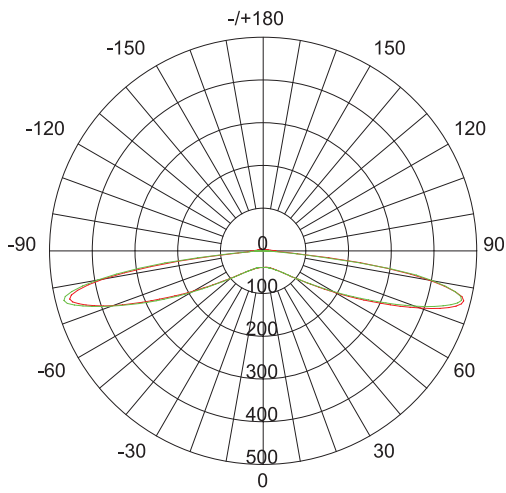
**7.1 [0.28]**



Note: for detail drawing, please consult sale rep.

Luminous Intensity Distribution Diagram

Average Illumination



Unit : cd

- C0 /180,187.8°

- C90/270,175.6°

AVERAGE BEAM ANGLE(50%): 181.7°

Flux Out: 1155lm

CCT=8000-9000K

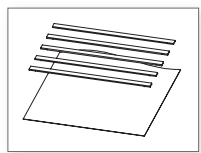
2cm	1121,98227lx	102.43cm
4cm	280. 2,24557lx	204.86cm
6cm	124. 6,10914lx	307. 29cm
8cm	70. 06,6139lx	409. 72cm
10cm	44. 84,3929lx	512. 16cm
12cm	31. 14,2729lx	614. 59cm
14cm	22. 88,2005lx	717. 02cm
16cm	17. 52,1535lx	819.45cm
18cm	13. 84,1213lx	921. 88cm
20cm	11. 21, 982. 3lx	1024. 31cm

Height Eavg , Emax

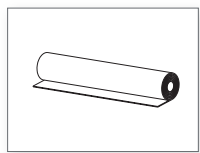
Beam Angle: 175.53°

Diameter

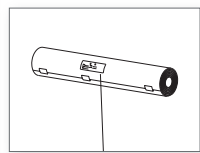
Note: the above two figures are tested with the sample at 8000-9000k, please contact sales for other data.

**packing**


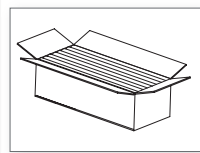
Place the products on the pearl foam



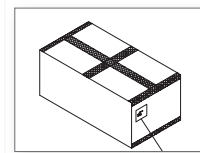
Wrap the pearl foam



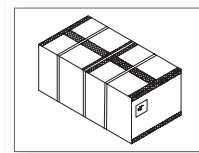
Seal both ends and stick a label



Put the product neatly into carton box.



Seal and label the box.



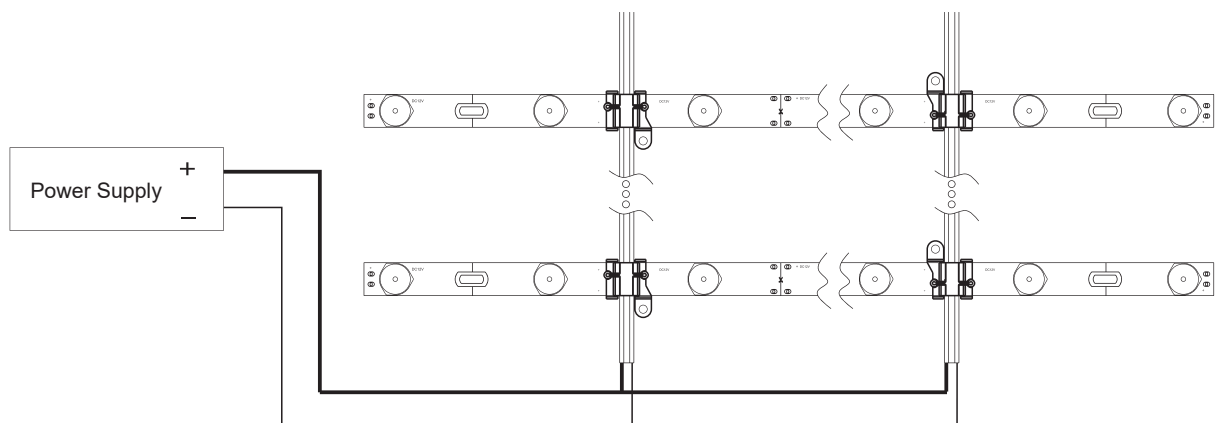
Use packing belt to pack. Add edge protectors if necessary.

**Packaging information**

Model No.	Product Size L*W(mm)	Carton Size(mm)	Intotal(pcs)	Net Weight(kg)	Gross Weight(kg)
-	480*16	550*400*340	300	12.25(1±10%)	13.55(1±10%)
-	515*16	550*400*340	300	11.85(1±10%)	13.28(1±10%)
-	930*16	1175*295*180	150	10.85(1±10%)	12.28(1±10%)
AV0118NBET-E	930*16	1175*295*180	150	10.85(1±10%)	12.28(1±10%)

**Note:**

This product is wrapped and loaded with white pearl foam and packed in long carton;  
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**


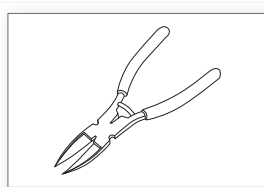
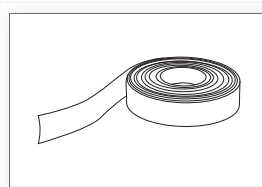
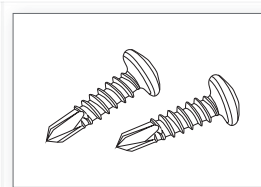
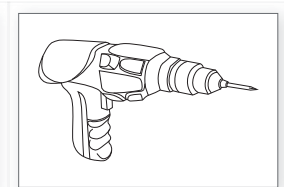
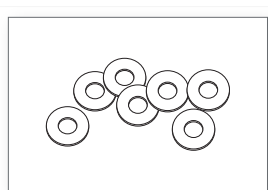
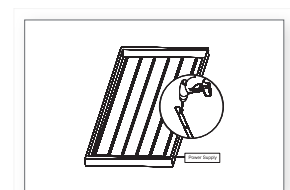
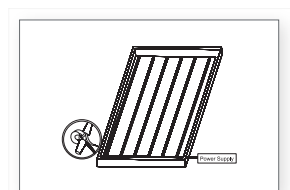
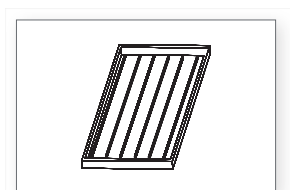
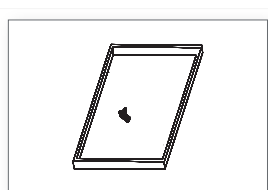
**Installation Reference**

Model No.	Bottom Color of Lightbox	Surface Material	Depth(H) cm	Illumination (lux)	Density (pcs/m <sup>2</sup> )	Spacing (Y)cm	Power Density (W/m <sup>2</sup> )	Visual Effects
H3-13LED 930MM	White	White Soft Film	4	9350-12510	12	8	132	OK
			5	6140-7630	7	14	77	
			6	3760-5020	4	25	44	
			8	3520-4510	4	25	44	
			10	2720-3450	3	33	33	
			12	2020-2360	2	50	22	


**Note:**

1. Spacing, see left;
2. Please contact the sales for other data if you need.
3. For the light box with a depth of less than 6cm, please add reflective film or spray reflective materials if needed

**Products and Tools**

**H3**

**Diagonal pliers**

**Insulation Tape**

**Screw**

**Electric drill**

**Mounting gasket**
**Installation Methods and Steps**


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

**Note:**

1. Screw to avoid welding plate, avoiding short circuit
2. When fastening the screw, make sure to add plastic gaskets to insulate the screw from the LED panel.

**Attentions before installation**

- 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.
- Please take and use the product gently to avoid damage.
- After installation, the fabric light box must be covered with cloth within 48 hours. Please avoid leaving the light box idle for a long time.

**Common Faults and Troubleshoot**

Quick Guide		
Problems	Reasons	Solutions
All LEDs can not light on.	No electric supply.	Fix the short circuit problem.
	Automatic power protection from the open or short circuit in output of the power supply.	
	Wrong connection of power supply.	
LEDs can not light on partly.	Some switching mode power supplies are not powered.	Correctly connection.
	Power supply line error.	
	Mistaken wire connection of some of products	
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 $\pm 5\%$ 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

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## 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 (0.75mm<sup>2</sup> 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.

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## 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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