

Version: C1.0

Features

- 180LM/W high efficiency;
- Adopt diffuse optical lens;
- Full encapsulated injection molding, IP67;
- Single module cuttable, easy to installation;
- Support PWM, DALI dimming;

Application

- Suitable for 6-20cm depth light box, advertising letters, subway, supermarket, bus station, shopping mall, etc;

Installation

- Fix by adhesive tape or screws

HIGH EFFICIENCY

Model No.	Light Color	CCT (K)	Beam Angle	Typical Luminous Flux value (lm/pcs)	Efficacy (lm/W)	Ra	Voltage (DC)	Power (W/pcs)
AV0133CBET-E	W	3800-4200	175°	63	175	70+	12V	0.36
		4800-5200		63	175			
		6200-6800		61	170			
AV0134CBET-E	W	3800-4200	175°	130	180	70+	12V	0.72
		4800-5200		130	180			
		6200-6800		126	175			
AV0135CBET-E	W	3800-4200	175°	194	180	70+	12V	1.08
		4800-5200		194	180			
		6200-6800		189	175			
-	W	3800-4200	175°	259	180	70+	12V	1.44
		4800-5200		259	180			
		6200-6800		252	175			

Other Parameters

Model No.	LED Qty/pc	Product Size L*W*H(mm)	Standard Run(pcs)	Max Run(pcs)	Working Temperature	Storage Temperature
AV0133CBET-E	1	23*15.7*10.4	120	120	-20~+60°C	-20~+70°C
AV0134CBET-E	2	44.7*15.7*10.4	50	50		
AV0135CBET-E	3	66.7*15.7*10.4	30	30		
-	4	48*37.7*10.4	35	35		

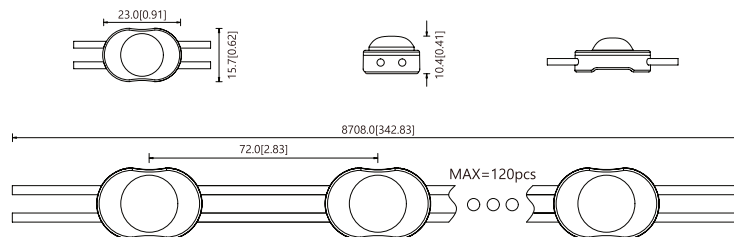
NOTE:

- 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.
- Different color temperature will make luminous lux different.
- Power and luminous flux tolerance within ±10%.
- Max run is based on one end power feed.

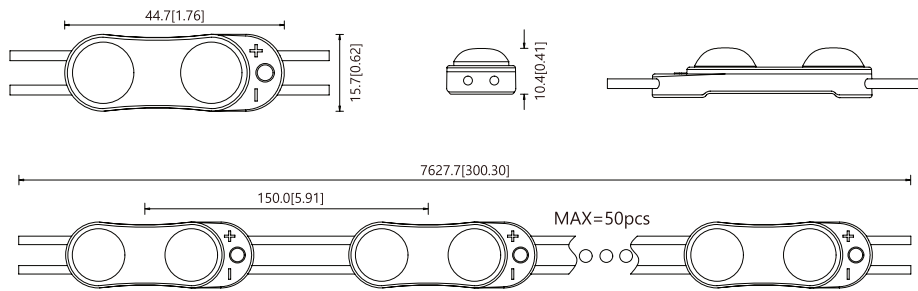
Profile Drawings

Unit:mm[inch]

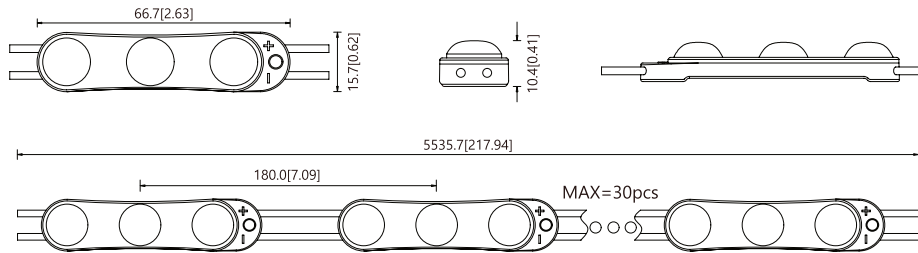
AV0133CBET-E



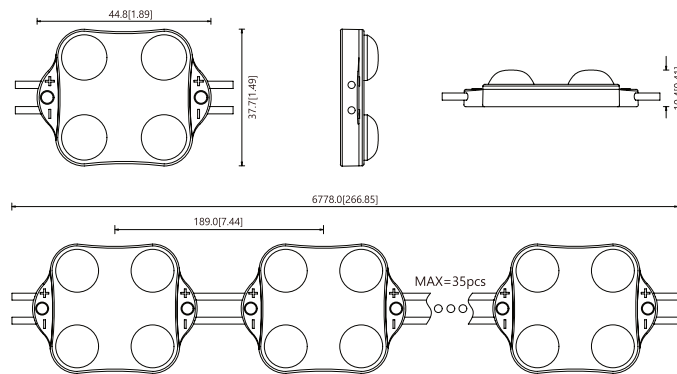
AV0134CBET-E



AV0135CBET-E



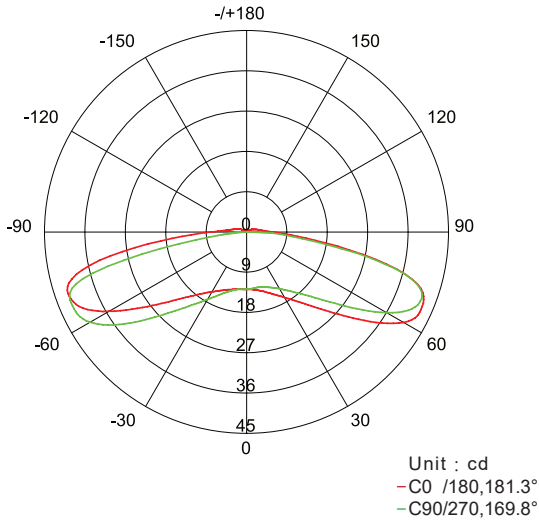
MODULE 4 LEDS



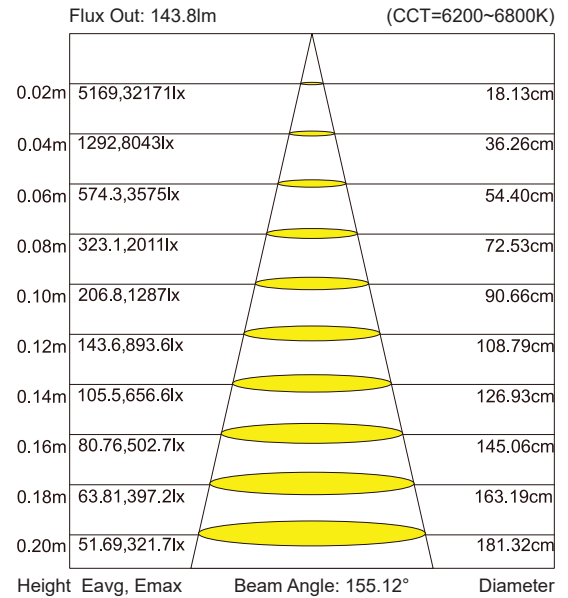
Note:
 Dimension tolerance: length \pm 0.2mm[0.008inch],
 width \pm 0.2mm[0.008inch], thickness \pm 0.2mm[0.008inch];

Luminous Intensity Distribution Diagram

Average Illumination



AVERAGE BEAM ANGLE(50%): 175.5°

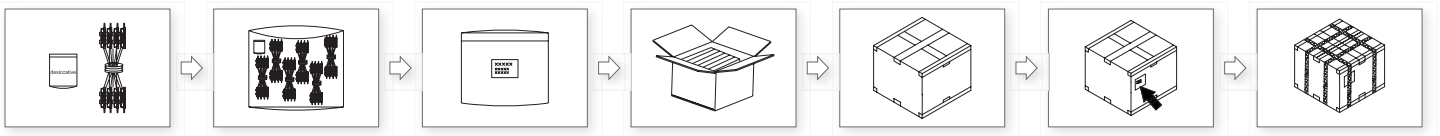


Note: the data is based on AV0133CBET-E at 6200-6800K. For more info, please consult sale rep.

Reliability Test

Type	Name	Standard	Condition	Result
Environmental test	PTC test	standard	Test temperature: -40°C — 60°C,2h one cycle(constant temperature: 15 minutes,heating and cooling: 45 minutes)	Pass
	High temperature resistance test		TH=60/80°C,continue power on	
	High temperature and humidity test		TH=85°C/RH=85%,continue power on	
	Room temperature aging test		Ta=25°C,continue power on	
	UV test		TH=50°C,UVB:315~400nm	
Other test	Flame retardant test	standard	Placed the sample vertically in the needle flame tester, the flame lasted for 10s and then observe the self-extinguishing time of the sample.	Pass

packing



1. Prepare the desiccant and bind the product.
2. Put the product and desiccant into static shielding bag.
3. Seal and label the static shielding bag.
4. Put the static shielding bag side by side into carton box.

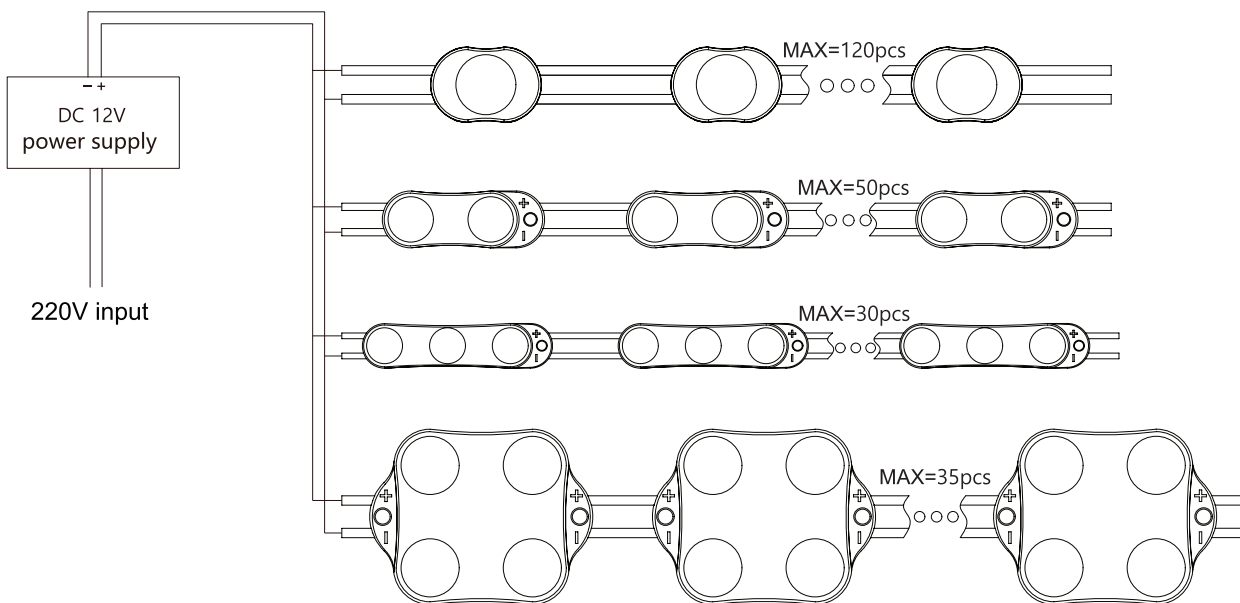
5. Seal the box.
6. Label the box;
7. Use packing belt to pack after adding the edge protectors.

Packaging information

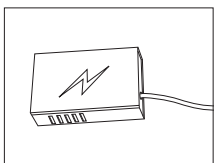
Model No.	Product Size L*W*H(mm)	Carton Size(mm)	PCS/Bag	Bag/Carton Box	Net Weight(kg)	Gross Weight(kg)
AV0133CBET-E	23*15.7*10.4	390*390*325	240	16	15.36(1±10%)	16.94(1±10%)
AV0134CBET-E	44.7*15.7*10.4		150	16	18.00(1±10%)	19.10(1±10%)
AV0135CBET-E	66.7*15.7*10.4		120	15	19.26(1±10%)	20.16(1±10%)
-	48*37.7*10.4		70	14	16.20(1±10%)	17.10(1±10%)

Note:
Packing materials: static shielding bag 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.

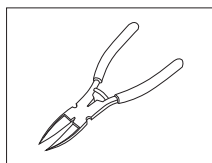
Installation



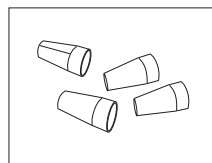
Accessories & Tools



LED power supply

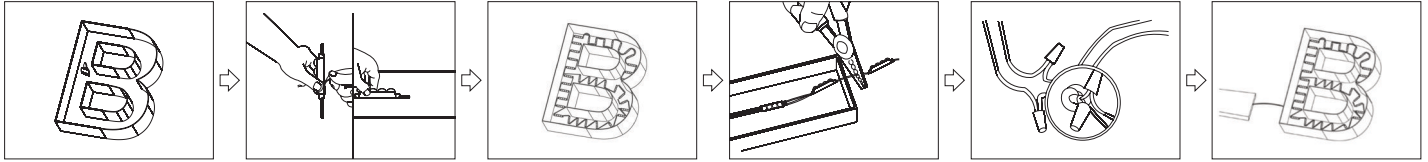


Diagonal pliers



Connection terminal

Installation steps



1. Clean the mounting surface.
2. Stick the modules onto mounting surface.
Note: If disassembly is required, avoid excessive force to prevent damage to the components.
3. Evenly arrange the led modules with appropriate spacing.
4. After cutting, please ensure proper waterproofing and insulation treatment.
Note: Cut in the middle of the wire.
5. If the product needs to be connected, it is better to fix with connection terminals.
Note: Treat the thread with insulation,waterproof, and anti-corrosion arrangement as it cannot pull out by hands.
6. Make sure the correct connection of positive and negative poles between led module and power supply.
Note: Treat the thread with insulation,waterproof, and anti-corrosion arrangement as it cannot pull out by hands.

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.
- **After installing this product in the lightbox, cover with fabric within 48 hours. Avoid leaving it unused or idle for extended periods.**

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 or 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



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 24 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.

Version	Content	Date
C1.0	First release	2024-4-8