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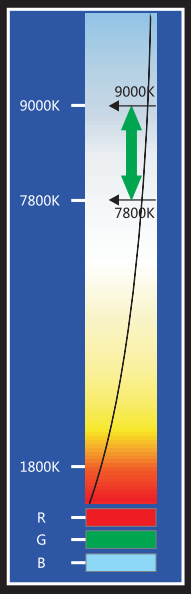

Features

1. Adopt edge-lit optical lens
2. Elegant appearance with aluminum base board injection
3. Single module cuttable

Application

Applied for 8-10cm depth and 0.2-1.2m width light box,subway,supermarket,bus station and shopping mall etc.

Installation

Fix by adhesive tape or screws

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Specification

Model No.	Color Temperature(K)	Beam Angle	Typical Luminous Flux value(lm/pcs)	CRI	Efficacy (lm/W)	Voltage (V DC)	Power (W/pcs)
MZ18-W	7800-9000	20*30°	135	80+	90	12	1.5

Other Parameters

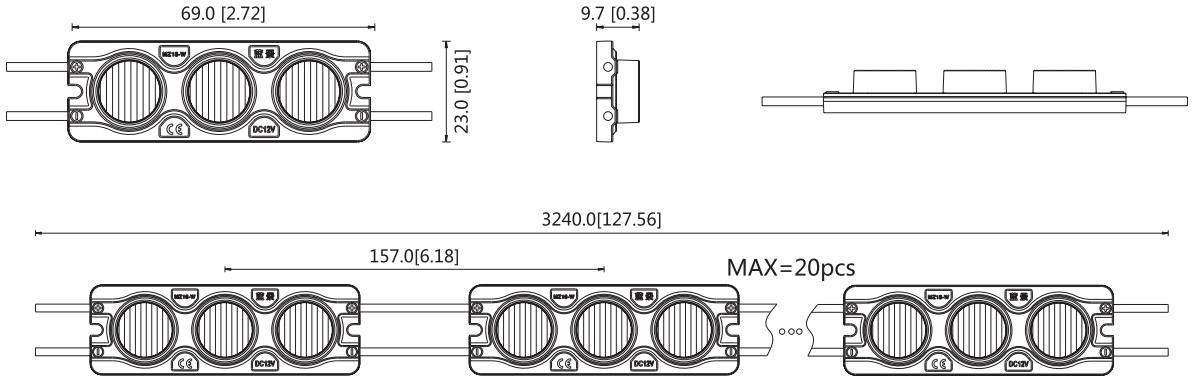
Model No.	Quantity (LED Qty/pc)	Product Size L*W*H(mm)	Standard Packing Quantity(pcs)	Max Run(single feed) (pcs)	Working Temperature	Storage Temperature
MZ18-W	3	69*23*9.7	20	20	-20~+60℃	-20~+70℃

NOTE:

1. Test environment temperature : 25±2°C.
2. Figures above are typical figures. Actual figures could be different with typical figures, and the data is subject to change without notice.
3. Different color temperature will make luminous flux different.
4. Power tolerance within ±10%.
5.The "Quantity"above means the LED quantity of single module

Profile Drawings

Unit:mm[inch]



Note: For detail drawing,please consult sale rep.

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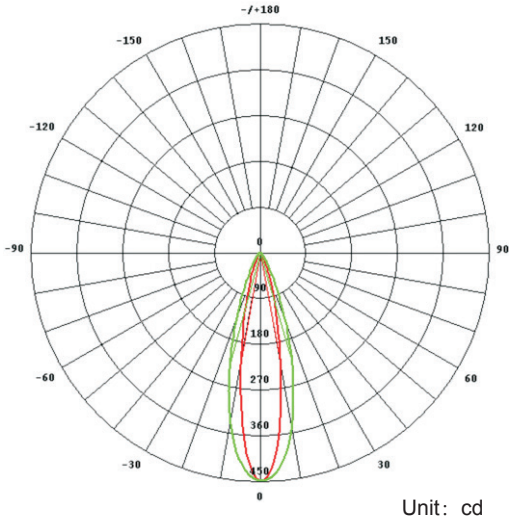
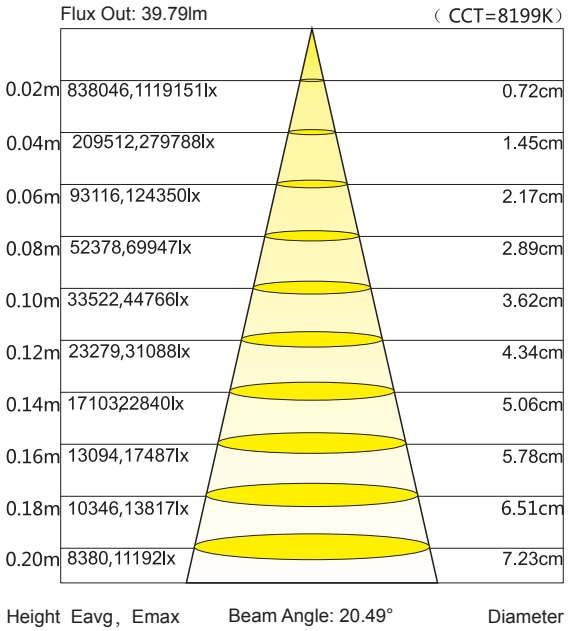
Luminous Intensity Distribution Diagram



Unit：cd
C0 /180,20.5°
C90/270,31.8°

AVERAGE BEAM ANGLE(50%): 26.2°

Average Illumination



Note:the above two figures are tested with the sample MZ18-W at CCT 8199K,for other data,please consult sale rep.

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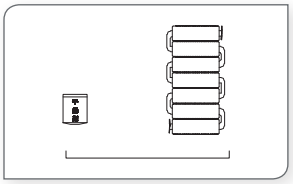
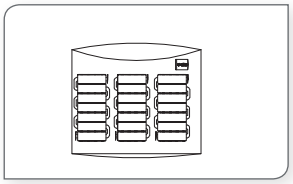
Reliability Test

Type	Name	Standard	Condition	Result
IP test	IP6X	IEC60529	1 meter deep water/1h	IP68
Environmental test	High and Low Temperature Cycle Test.	Blueview standard	High temperature 60°C 4H,25°C 1h, low temperature -40°C 4H continuous cycle and power on	Pass
	High Temperature & Humidity		TH=60°C,humidity 90%,continue power on	
	PTC test		Test temperature: -40°C— 60°C,2h one cycle(constant temperature: 15 minutes,heating and cooling: 45 minutes)	
	Temperature Shock		TH=80°C/4h,TH=-40°C/4h,continue power on	
	Aging Test		TH=25°C,continuous power on	
	High Temperature Test		TH=60/80°C,continuous power on	
	Salt Spray Corrosion Test		TH=35°C,5% concentration salt	
	Anti-UV test		TH=60°C,UVB:280~315nm	
	Ingress Protection		showered for 12 hours every 24 hours. switched once every 1 hour under rated operating voltage	
Flame Retardant test	Flame Retardant test	GB/T5169.16-2008	Burn the sample with a lighter within 30s.Release the ignition button, and the flame on the sample extinguished immediately.	

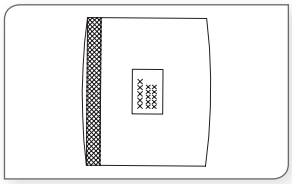
packing



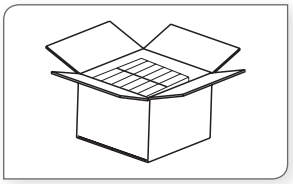
Prepare the desiccant and bind the product.



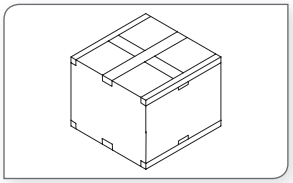
Put the product and desiccant into static shielding bag.



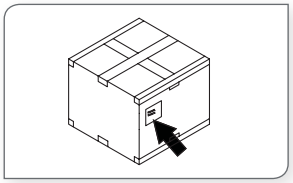
Seal and label the static shielding bag.



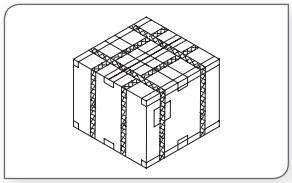
Put the static shielding bag side by side into carton box.



Seal the box.



Label the box;



Use packing belt to pack after adding the edge protectors.

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Packaging information

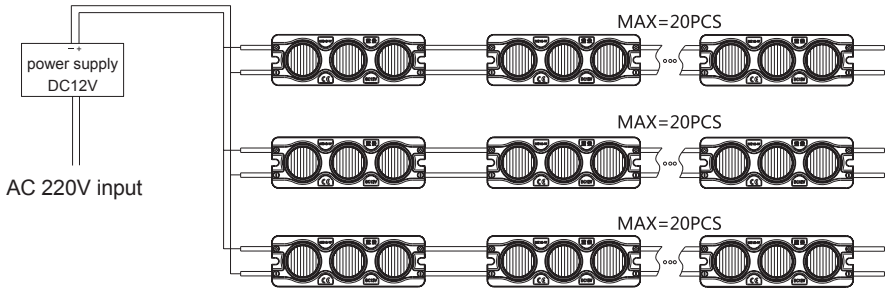
Model No.	Product Size L*W(mm)	Carton Size(mm)	PCS/Bag	Bag/Carton Box	Net Weight(kg)	Gross Weight(kg)
MZ18-W	69*23*9.7	390*390*325	60	20	18.75(1±10%)	20.25(1±10%)

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

1.Connection Diagram



Note: Working temperature please refer specification table.

2.Installation Reference

Model No	Surface Material	Width(m)	Depth(H) cm	Illumination (lux)	Evenness	Density (pcs/m²)	Spacing (X*Y)cm	Power Density (W/m²)	Visual Effects
MZ18-W	White non weaving canvas	0.2	8	3420-3510	0.97	12*2	8	180	OK
		0.4	8	2320-2500	0.93			90	
		0.6	8	1685-1832	0.92			60	
		0.8	8	1288-1622	0.80			45	
		1.0	8	900-1400	0.64			36	
		0.2	10	2670-2790	0.96			180	
		0.4	10	2080-2220	0.94			90	
		0.6	10	1553-1684	0.92			60	
		0.8	10	1165-1431	0.81			45	
		1.0	10	886-1252	0.71			36	
		1.2	10	612-960	0.64			30	

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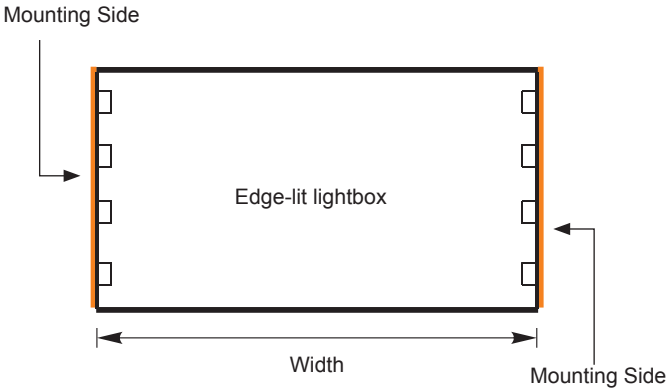
Note:The density is within a light box of 1 square meter. PCS/m indicates the product quantity installed on single side, and PCS/2m indicates the quantity of double-sided installation.



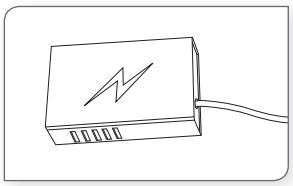
Note:

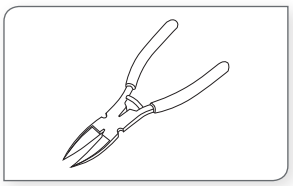
The density refers to product quantities installed on the mounting side, and "1*2" refers to 2 mounting sides and each side with 1pcs.

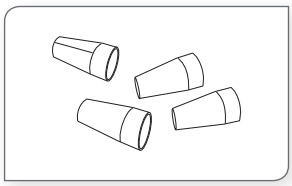
The spacing means centre spacing of the product, see the left.

The above products use porcelain whiteboard.

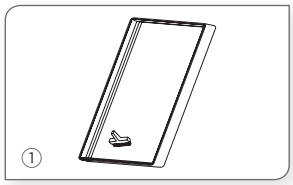
3. Accessories & Tools

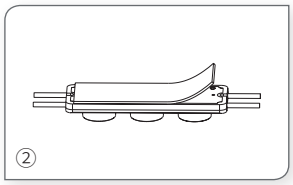

LED power supply

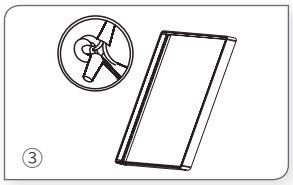

Diagonal Pliers

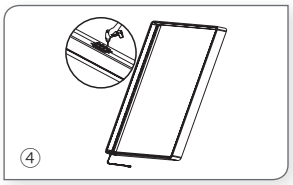

Connection Terminals

4. Installation steps









1. Clean the mounting surface.
2. Peel away the release paper on the back of led modules and stick them onto mounting surface.
3. Evenly arrange the led modules with appropriate space.
4. After installation, fix modules by screws,then power on.

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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.

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.	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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