



Color

Features

1. High efficacy 3030 LED
2. Injection molding with IP65 water-proof
3. Aluminum PCB with excellent heat dissipation
4. Special lens with 10*28 deg beam angle
5. Cuttable between LEDs

Application

Edge-lit for 8-12cm single sided or double sided light box

Installation

Prefix by self adhesive tape and install with screws

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Specification

Model No.	Z18-C
Color Temperature(K)	6500
Beam Angle	10°*28°
Luminous Flux (lm/pcs)	184
Ra	≥70
Efficacy(Lm/W)	92
Voltage(DC/V)	12
Power(W/pcs)	2
Product Size(mm)	45*28*14
Quantity(pcs)	1
Standard Series Connection (pcs)	20
Single Ended Max Connection Quantity(pcs)	20
Working Temperature	-25~+60°C
Storage Temperature	-25~+70°C

NOTE:

Test environment temperature : 25±2°C.

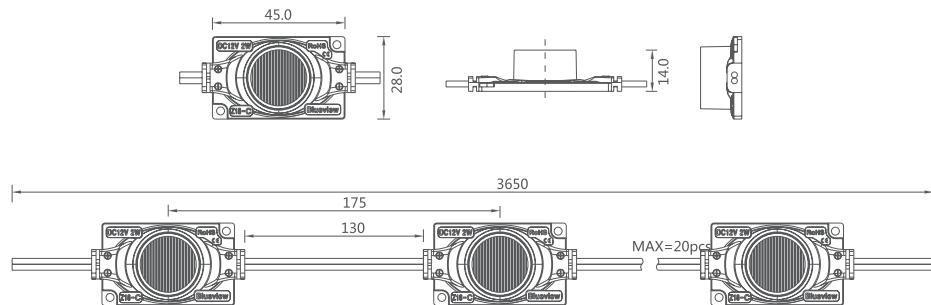
The above data is typical values. The actual data of each single product may differ from the typical values. The data is subject to change without notice.

Luminous flux is tested when lighting on with the single color.

Different color temperature will make luminous flux different.

Profile Drawing

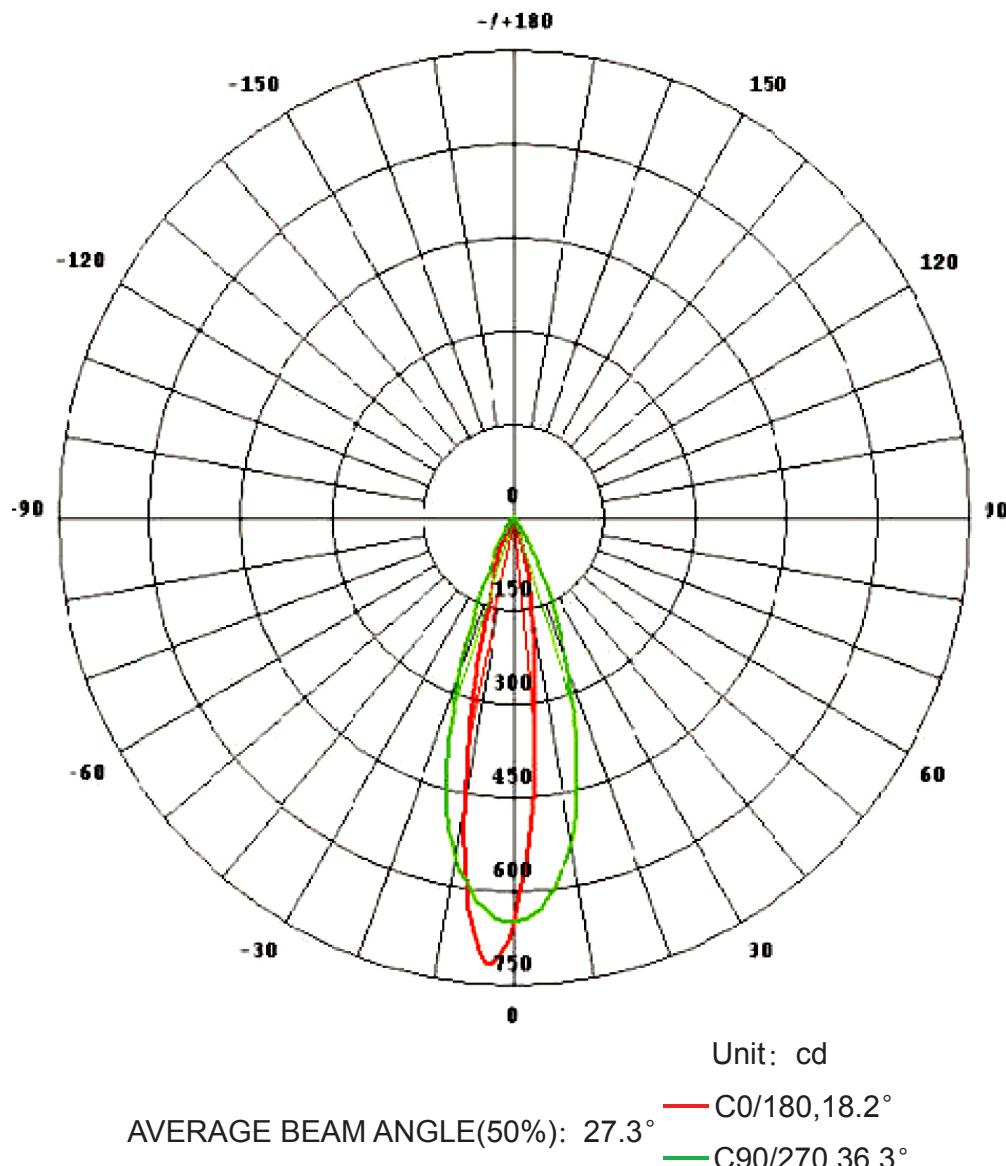
Unit mm



NOTE:Please ask the sales for detail drawing.



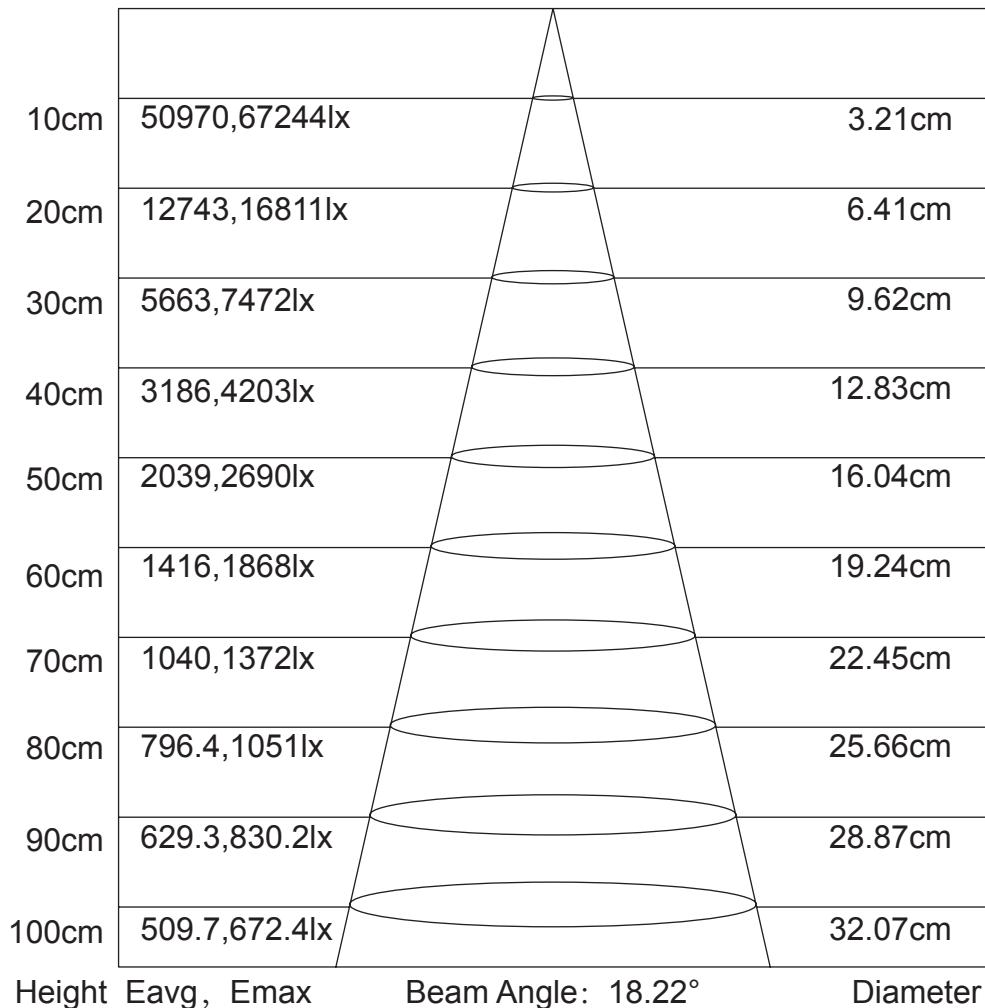
Luminous Intensity Distribution Diagram





Average Illumination

Luminous Flux output: 49.79ml

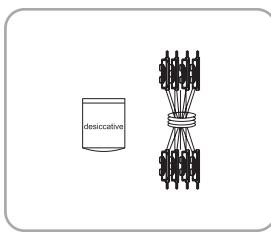


Note:

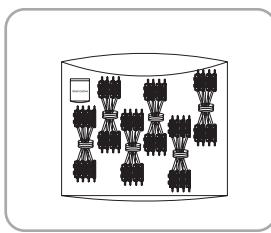
The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.



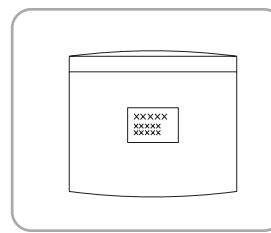
Packaging



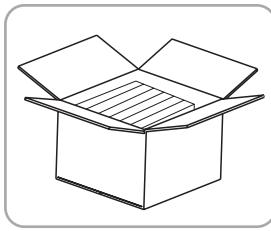
① Prepare desiccant and bind the product



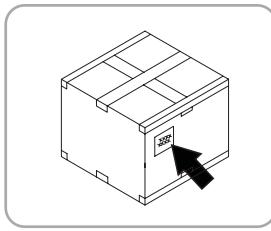
② Put the product and the desiccant together into static shielding bag



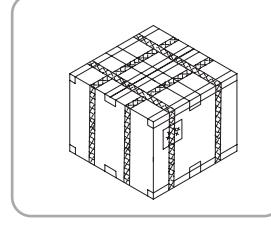
③ Seal and label the bag



④ Put the product neatly in carton box



⑤ Seal and label the box



⑥ Use packing belt to pack. Add edge protectors if necessary.

Packaging information

Model No.	Product Size (mm)	Carton Size (mm)	Total Quantity	Net Weight (kg)	Gross Weight (kg)
Z18-C	45*28*14	570*375*285	1200	15.97(1±10%)	17.5(1±10%)

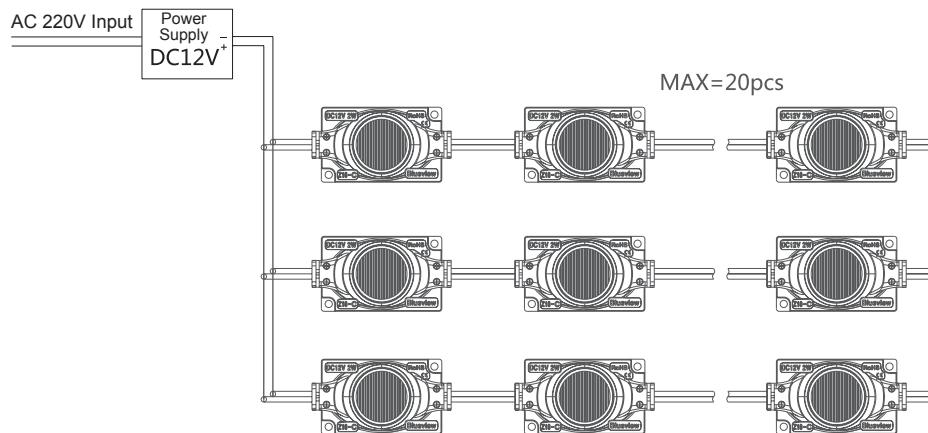
Note:

1. Packaging material: Static shielding 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

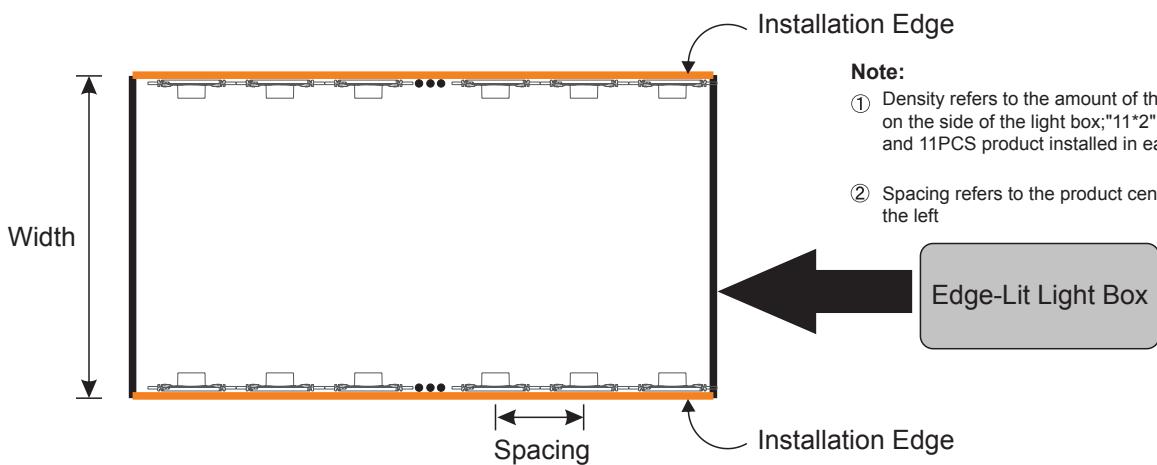
1. Connection Diagram



2. Installation Reference

Model No	Light Box	Lighting Method	Surface Material	Width (m)	Depth (cm)	Spacing (cm)	Density (pcs/2m)	Illumination (lux)	Uniformity
Z18-C	Double-sided	Edge to edge	White Soft Film	1.2	8	6	16*2	1270-1830	0.69
					10	8	12*2	980-1540	0.62
				1.5	8	6	12*2	680-1690	0.40
					10	8	16*2	650-1310	0.49

Note: Installation density is based on one square meter of light box. PCS/m refers to installation quantity of single-sided and PCS/2m refers to installation quantity of double-sided.



Note:

① Density refers to the amount of the product installed on the side of the light box; "11*2" means two sides and 11PCS product installed in each side.

② Spacing refers to the product center spacing, seeing the left

Edge-Lit Light Box

Note:

① Spacing, see upper left;

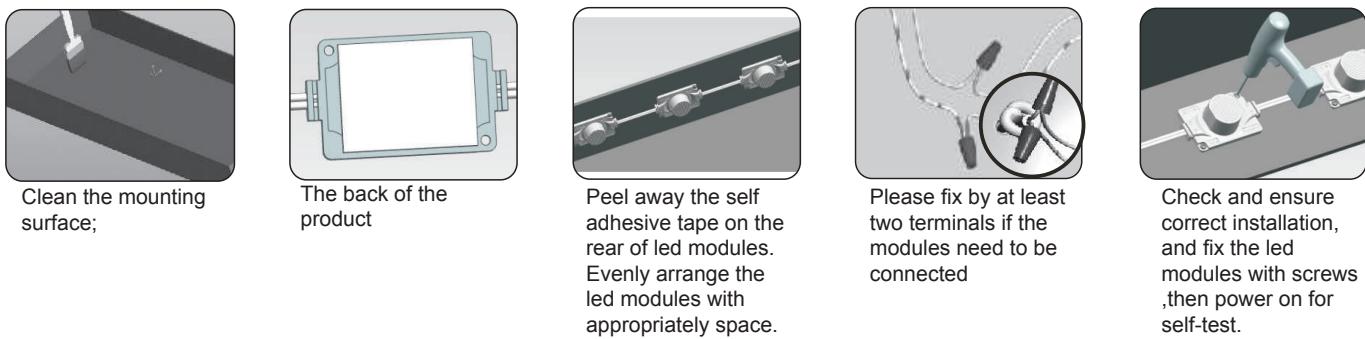
② The above shows part of installation data of Z18-C. If need more installation reference data, please contact the sales.



3. Accessories & Tools



4. Installation steps



⚠ The terminal should have insulation, waterproof and anti-corrosive treatment, and it should not be pulled out by hands.

⚠ Any redundant wires between products should be fixed in the installation position with glue, and make sure do not shadow the lighting.

Attentions

- 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 led bar 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 or insufficient.	Power overloaded.	Replace with more powerful power
	Power supply circuit excessive consumption.	Make sure led module working voltage within ±5% of standard voltage, or keep balance by circuit power consumption.
	Excessive quantities in series connection of LED modules.	Reduce the quantities of LED modules 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 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 as backlight of 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.