

Color    

Features

1. 4 in 1 with colors of red, green, blue and warm white
2. Flexible and cuttable every 80.0*53.3mm
3. Long lifespan with great lumen maintenance
4. Create rich color changing effect via controller
5. Dimmable with PWM technology

Application

Back-lit lightbox with depth above 4cm, curved wall, ceiling etc.

Installation

Fix by 3M self adhesive tape and screws



Specification

Model No.	Light Color	Color Temperature/ Wavelength (K/nm)	Beam Angle of Single Color	Luminous Flux (Lm/pcs)	Ra	Efficacy (lm/w)	Voltage (DC V)	Power (W/pcs)
H150-RGBW-FN- F5050-162-24-W2	R	620-630	120°	169	--	26	24	6.48
	G	515-530		480	--	74		6.48
	B	460-470		97	--	15		6.48
	WW	3000		583	80+	90		6.48
	R+G+B	100000+		719	--	37		19.44
	RGB+W	100000+		1218	--	47		25.92

Other Parameters

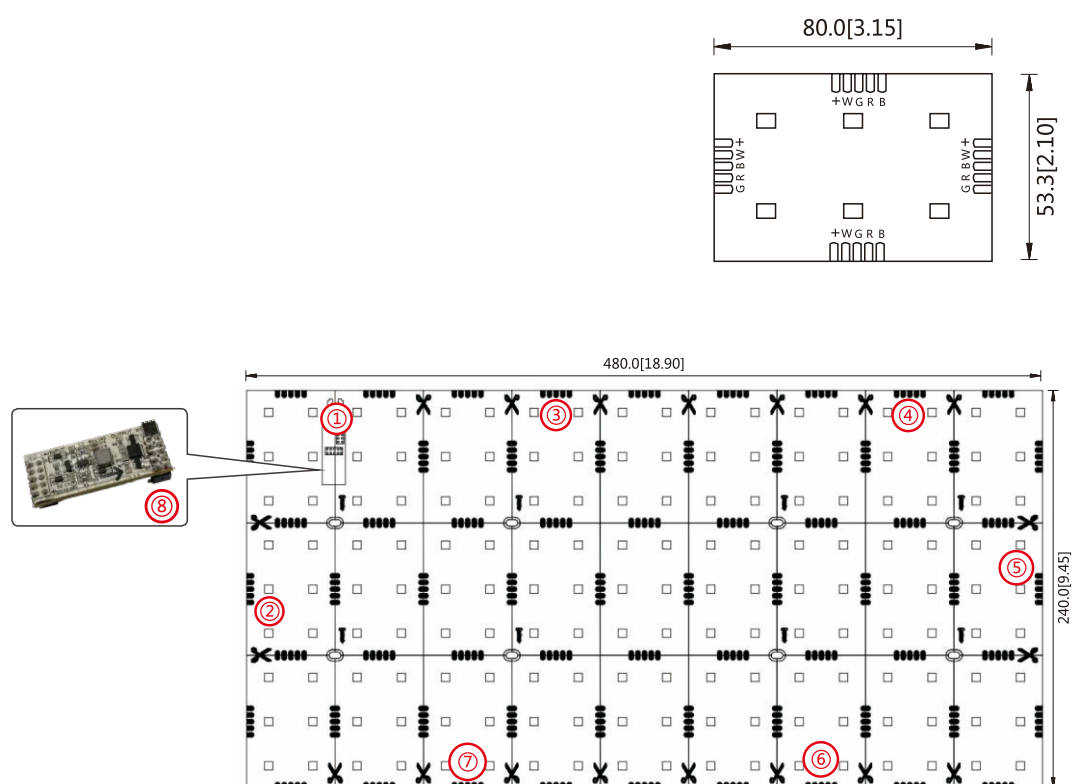
Model No.	LED Quantity (pcs)	Product Size L*W(mm)	Max Run (pcs)	Min Cuttable length(mm)	Working Temperature	Storage Temperature
H150-RGBW-FN- F5050-162-24-W2	162	480*240	4	80.0*53.3	-20~+60°C	-20~+70°C

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. Different color temperature will make luminous flux different.

Profile Drawings

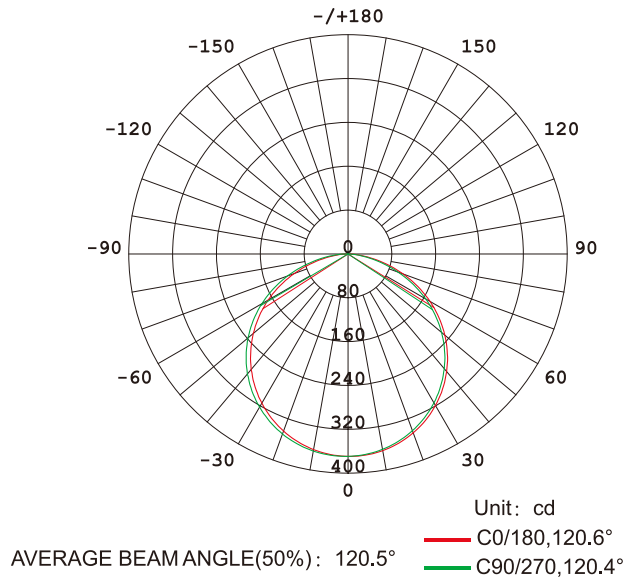
Unit:mm [inch]



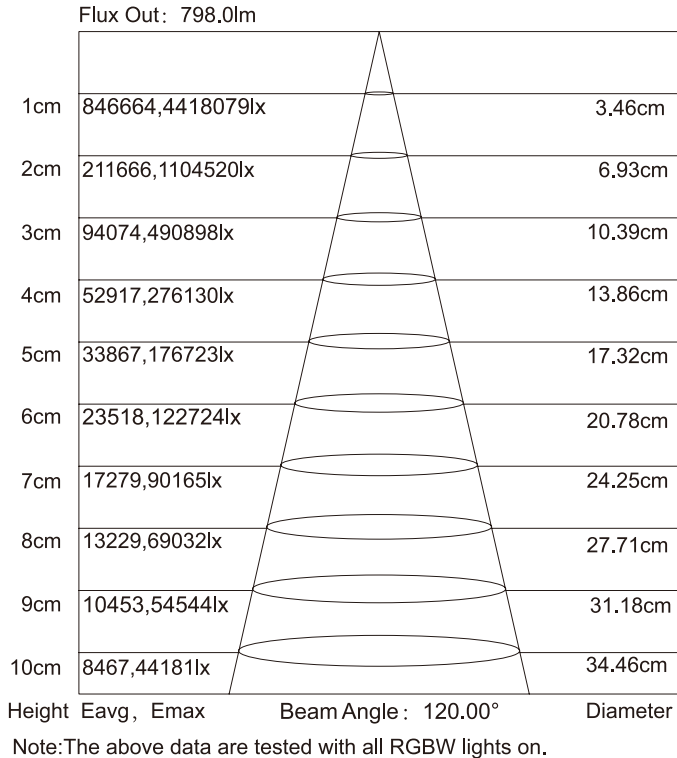
Port location	Port name	Port type	Effect	Note
①	Power input	2pin	mains input for Internal control	INPUT
②④⑥	Signal input	5pin	signal input for external controller	INPUT
⑤⑥⑦	Signal output	5pin	output connection between light panel	OUTPUT
⑧	Built-in controller	—	Internal control	Not suitable for external control



Luminous Intensity Distribution Diagram

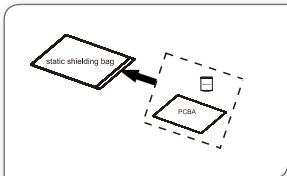


Average Illumination

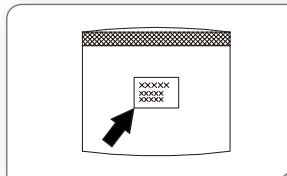




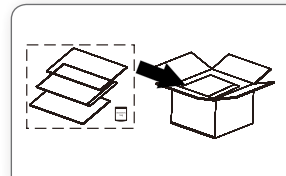
packing



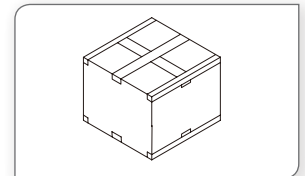
Put the product and desiccant together into static shielding bag;



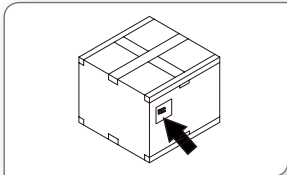
Seal and label the static shielding bag;



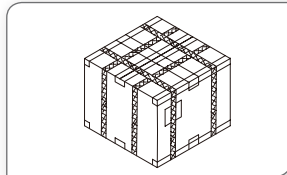
Separate with pearl cotton pads/cardboard layer by layer and put on the accessory bag;



Seal the carton box;



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)	PCS/Bag	Bag/Carton	Net Weight(kg)	Gross Weight(kg)
H150-RGBW-FN-F5050-162-24-W2	480*240	555*295*275	2	25	8.64(1±10%)	10.35(1±10%)

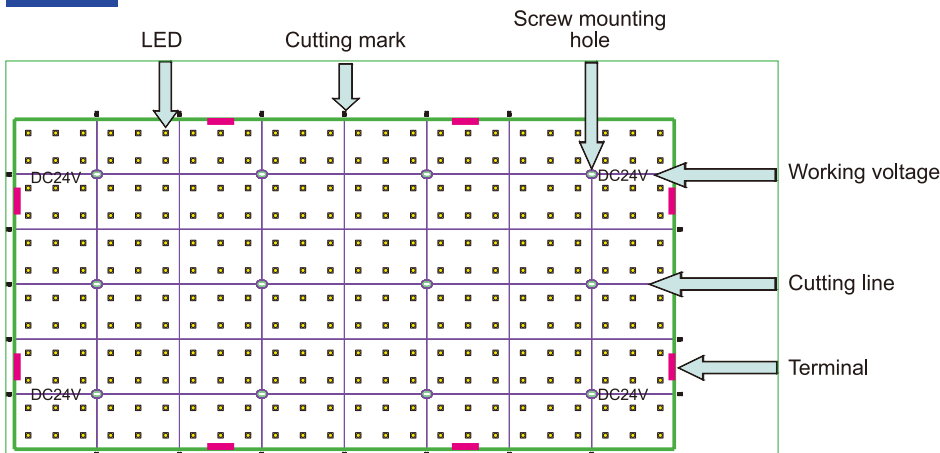
Note:

1. Every 2pcs back to back packed in a static shielding bag.
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.The Product

Front View

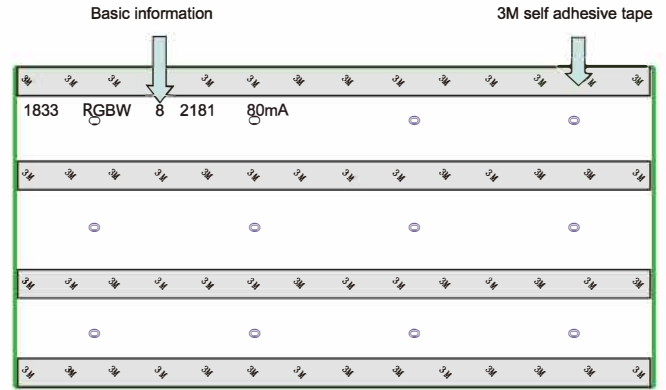




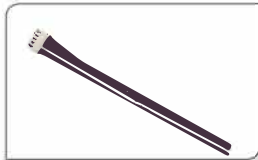
	Application	Quantity	Position	Note
Screw mounting hole	Fix the product	12	-	Runway type
Cutting line	Cutting position	-	With scissors mark	-
Terminal	To connect power supply	-	-	5Pin terminal
3M self adhesive tape	Pre-fix	6	-	-
Basic information	-	-	-	See the below information

Basic information	1833	RGBW	8	2181	80mA
					Working current of single LED
					Production batch number
					Ra
					Color temperature/Light color
					Production date (Year/Week)

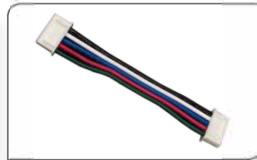
Back View



2. Accessories & Tools



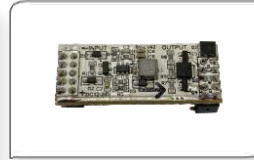
XH-5Y Power cable



XH-5Y Joint Line



Self-tapping screw

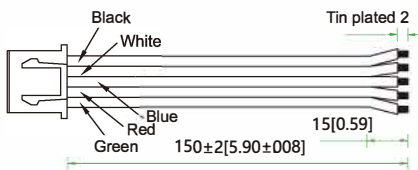


Built-in Controller (Optional)

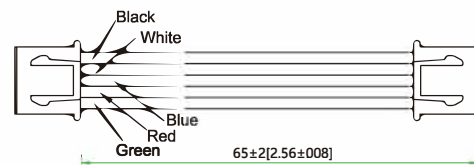


XH-2Y Power cable for Controller (Optional)

XH-5Y joint line
Order number: 0105Y3A0D00002

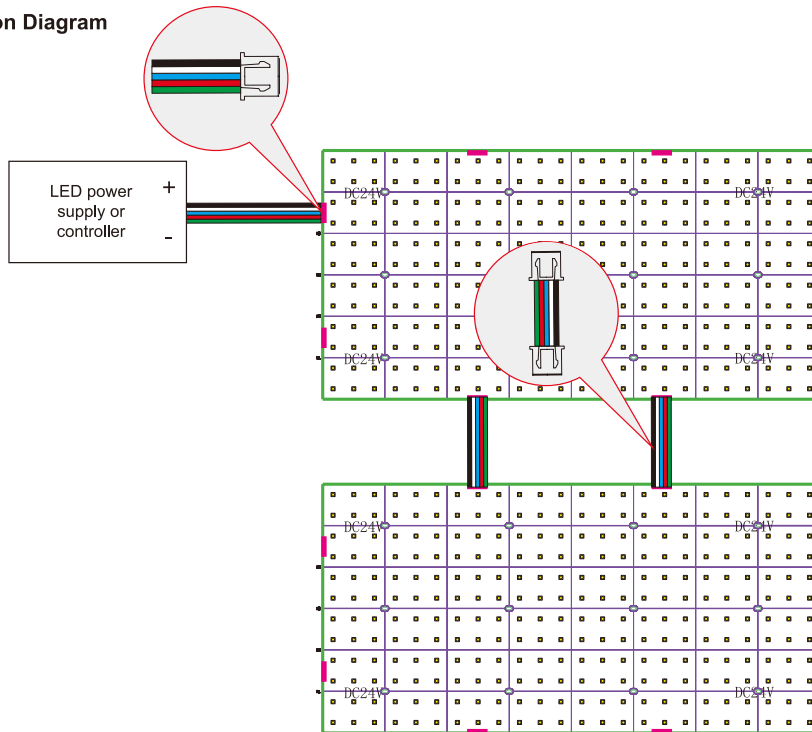


XH-5Y joint line
Order number: 0105Y3A0DY3002

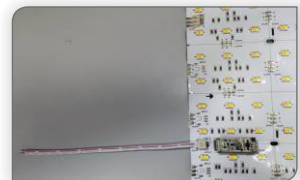
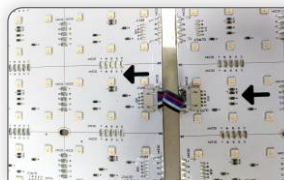
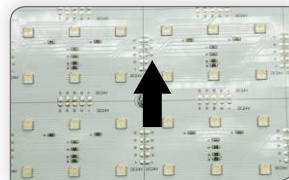
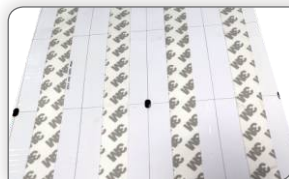
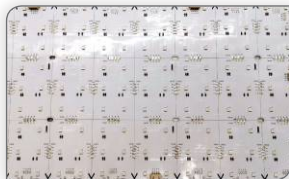




3. Product Connection Diagram



Installation Steps



Optional



- - - - Sign surface
- - - - Light box border
- - - - Flexible panel
- - - - Light box bottom

Note:

"+" for black wire.

The above diagram is only for installation, not the real product.



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.	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 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 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.



Attachment: Instruction of single-sided lightbox

