

Version: A1.8

Features

1. Simple connection and easy installation
2. PCB adopts FPC with high flexibility
3. IP22(non-waterproof) & IP64(spray glue coated) available

Application

Suitable for back-lit light box with depth above 4cm, shopping mall decoration, luminous letter, hotels, etc.

Installation

Prefix by 3M self adhesive tape and screws



Optical & Electrical Parameters

Size: 480*240mm

Model No.	Light Color	Color Temperature/ Wavelength(K/nm)	Beam Angle	Luminous Flu (lm/pcs)	Ra	Efficacy (lm/W)	Voltage (DC V)	Power (W/pcs)
H150-WN(eco)-TN2835-324-24	N	6500	120°	1555	80+	120	24V	13
	W	2700		1425		110		13
	W+N	4500		2980		115		26
H150-WN(eco)-TN2835T-324-24	N	6200	120°	1399	90+	108	24V	13
	W	2200		1166		90		13
	W+N	4100		2220		98		26
H150-WN(eco)-TN2835T-324-24	N	6200	120°	1296	95+	100	24V	13
	W	2200		946		73		13
	W+N	4100		2203		85		26

Size: 610*305mm

Model No.	Light Color	Color Temperature/ Wavelength(K/nm)	Beam Angle	Luminous Flu (lm/pcs)	Ra	Efficacy (lm/W)	Voltage (DC V)	Power (W/pcs)
H150-WN(eco)-TN2835-576-24	N	6500	120°	2764	80+	120	24V	23
	W	2700		2534		110		23
	W+N	4500		5298		115		46
H150-WN(eco)-TN2835T-576-24	N	6200	120°	2488	90+	108	24V	23
	W	2200		2073		90		23
	W+N	4100		4515		98		46
H150-WN(eco)-TN2835T-576-24	N	6200	120°	2304	95+	100	24V	23
	W	2200		1682		73		23
	W+N	4100		3916		85		46

Other Parameters

Model No.	Power (W/pcs)	LED Quantity/pc	Product Size L*W*H(mm)	Max Run (pcs)	Min Cuttable Unit(mm)	Working Temperature	Storage Temperature
H150-WN(eco)-TN2835-324-24	26	324	480*240*8	4	80.0*53.33	-20~+60°C	-20~+70°C
H150-WN(eco)-TN2835T-324-24	26	324	480*240*8	4	80.0*53.33		
H150-WN(eco)-TN2835-576-24	46	576	610*305*8	3	76.2*50.80		
H150-WN(eco)-TN2835T-576-24	46	576	610*305*8	3	76.2*50.80		

- 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. Luminous flux is tested when lighting on the single color.
 4. Different color temperature will make luminous flux different.
 5. Luminous flux and power tolerance within ±10%
 6. Cutting marks see profile drawing below
 7. Max run with one end power feed

SMART FLEXIBLE LED LIGHT PANEL H150-WN(eco)-TN2835-XXX-XX

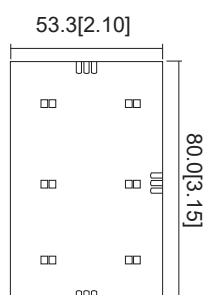


Profile Drawing

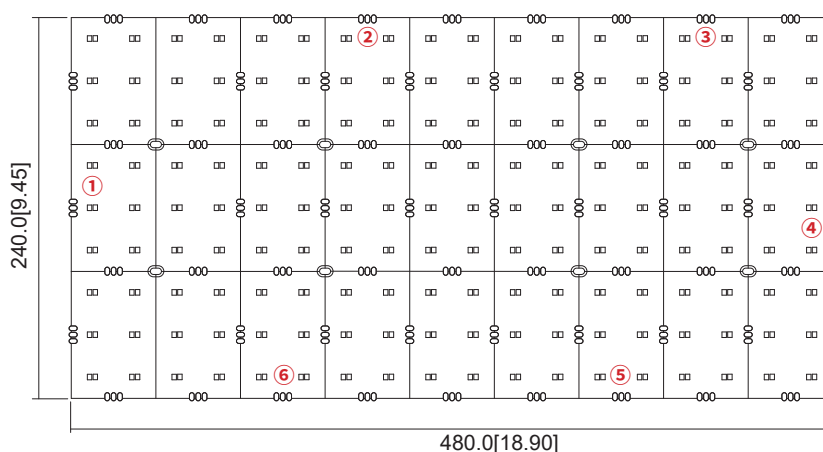
Unit: mm[inch]

H150-WN(eco)-TN2835-324-24

Min cuttable unit

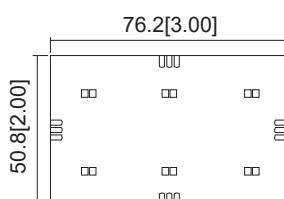


Profile Drawings

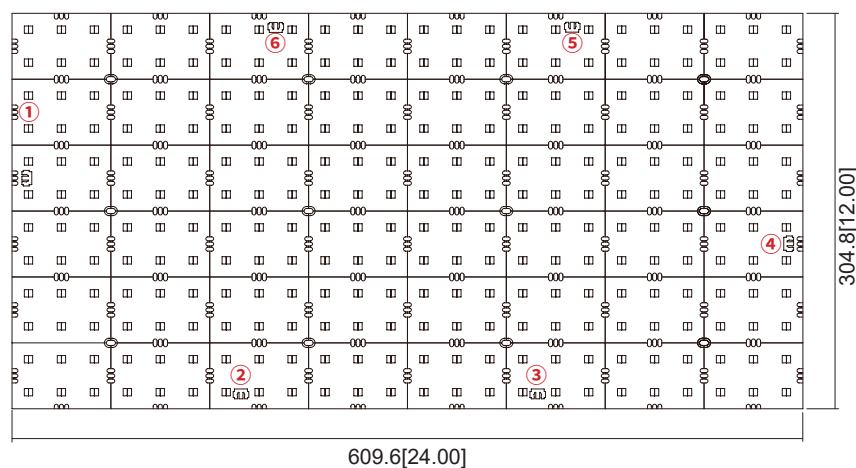


H150-WN(eco)-TN2835-576-24

Min cuttable unit



Profile Drawings



Note:

Dimension tolerance: length $\pm 6\text{mm}$ [0.24inch]; width $\pm 0.2\text{mm}$ [0.008inch]; thickness $\pm 0.2\text{mm}$ [0.008inch].

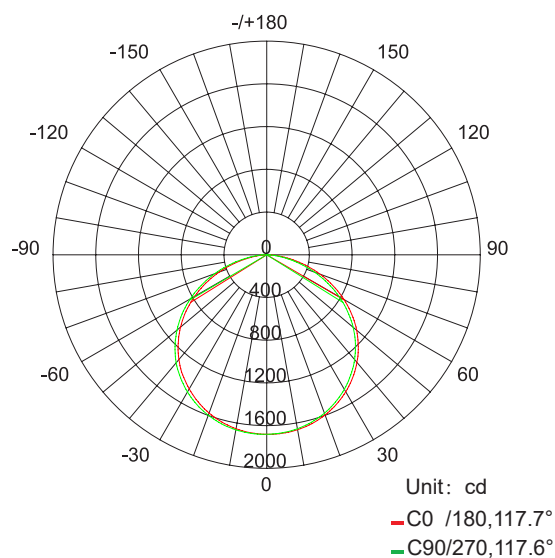
More info, please consult sales rep.

Port Description

Port location	Port name	Port type	Effect	Note
①②③	Signal input	3pin	signal input for external controller	INPUT
④⑤⑥	Signal output	3pin	output connection between light panel	OUTPUT

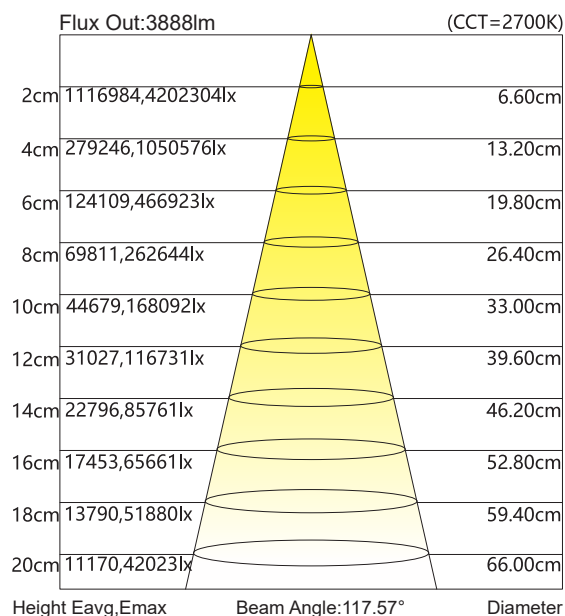


Luminous Intensity Distribution Diagram



AVERAGE BEAM ANGLE(50%): 117.7°

Average Illumination



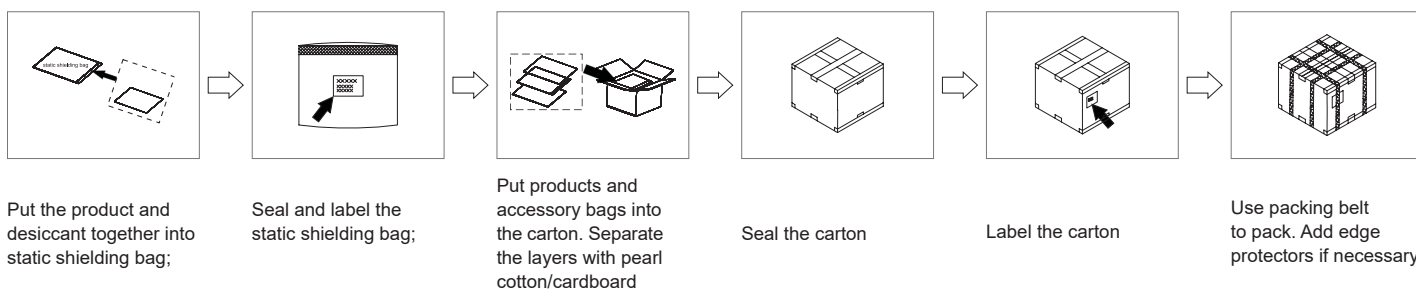
Note: above data is based on H150-WN(eco)-TN2835-576-24 at 2700K. For more info, please consult sales rep.

Operating Length VS. Electrical Parameters

H150-WN(eco)-TN2835-576-24	Operating Length(m)			
Parameters	1	2	3	4
Operating Voltage (DC V)	24.0	24.0	24.0	24.0
Total Current(A)	1.92	3.7	5.15	6.2
Total Power(W)	46.08	88.8	123.6	148.8
Head voltage(V)	23.85	23.79	23.74	23.7
Tail voltage(V)	23.68	23.14	22.2	21.45
Head Current(mA)	40.6	40.4	40.1	39.8
Tail Current(mA)	39.8	37.9	33.7	29.6
Head-to-tail Voltage Drop Rate(%)	0.72	2.73	6.5	9.5
Head-to-tail Current Drop Rate(%)	2.0	6.2	16.0	25.6
Run a cable back to the driver needed	NO	NO	NO	YES



packing



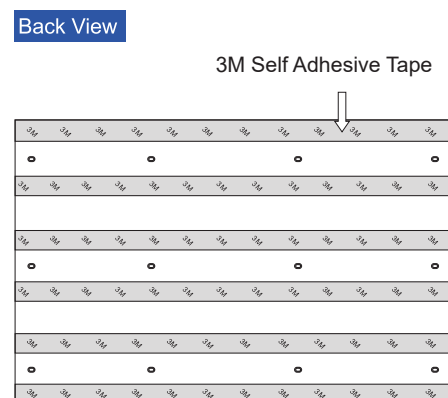
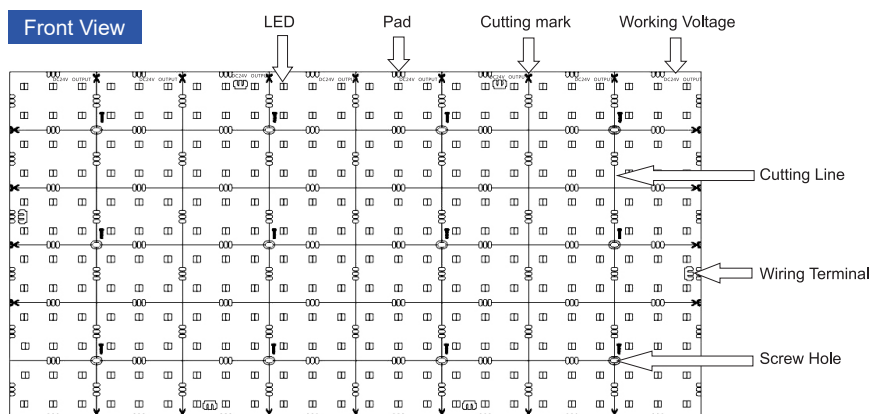
Packaging Information

Model No.	Product Size L*W*H(mm)	Carton Size(mm)	PCS/Bag	Bag/Carton	Net Weight(kg)	Gross Weight(kg)
H150-WN(eco)-TN2835-324-24	480*240*8	555*295*275	2	50	8.64(1±10%)	10.35(1±10%)
H150-WN(eco)-TN2835-576-24	610*305*8	610*355*380	2	40	12.90(1±10%)	14.80(1±10%)

NOTE:
Every 2pcs back to back packed in an anti-static bubble bag
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.

Packaging

1.The Product





	Application	Quantity	Position	Note
Screw hole	Fix the product	12	/	Runway hole
Cutting line	Cutting position	/	With Scissors Mark	/
Wiring Terminal	Connect Controller	1	/	2Pin Terminal
		6	/	3Pin Terminal
Welding pad	Bonding Wire	/	/	/
3M self adhesive tape	Pre-fix	6	/	/
Basic information	/	/	/	See the figure

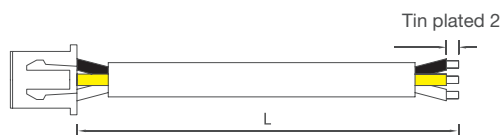
Basic information

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Production date(Year/Week)	Color temperature/Light color	Ra	Production batch number	Single LED working current

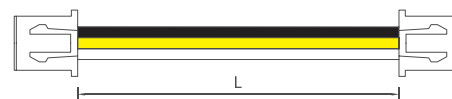
Products And Tools

LED power supply	Self-tapping screw	Insulation Tape	Single-ended XH-3Y connector cable	Dual-ended XH-3Y connector cable	Electric drill	Electric iron

Single-ended XH-3Y connector cable



Dual-ended XH-3Y connector cable



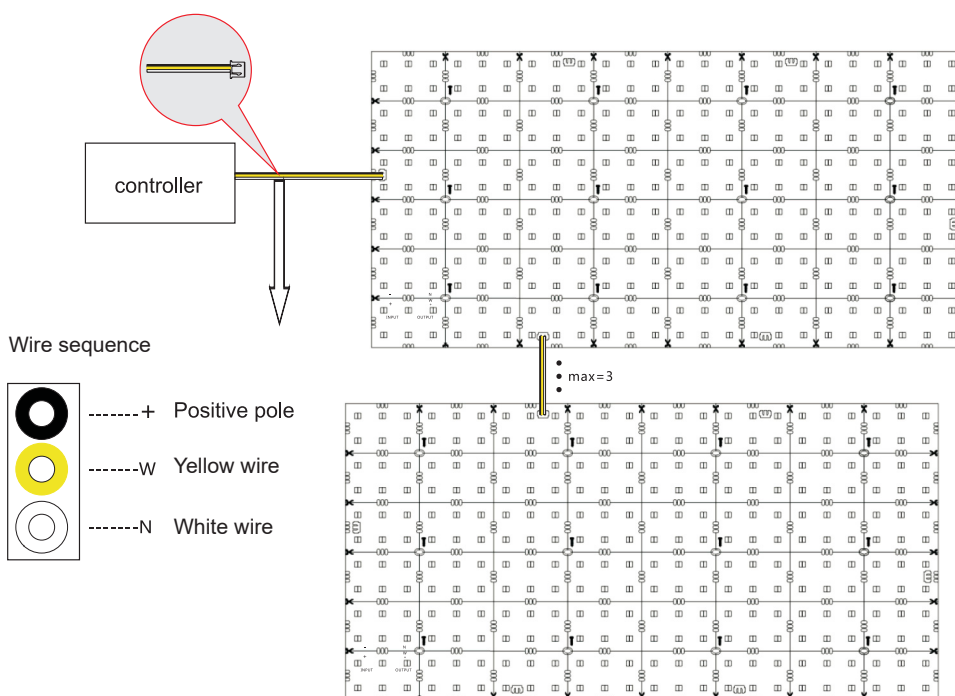
Note:

Please pay attention to the line sequence; standard wire 20AWG; under single feed mode, two wires are used to connect the panels.
Wire length L can be customized.

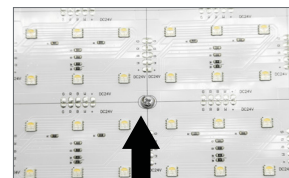
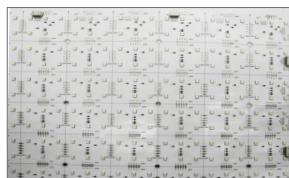


Product Connection Diagram

Controller Wiring



Installation Steps



- Illuminating side
- Lightbox frame
- Flexible panel
- Lightbox bottom

Note:

"+" connect to white and red wire.

The above diagram is only for installation, not the physical drawing.



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 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

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

