

LED

NEON FLEX

NDF1212





- Features
- Color options: Single color, WN and RGB.
 - Design: Superior design with exquisite craftsmanship ensure stable and reliable performance.
 - Top bending with good flexibility.
 - Warranty: 5 years indoor, 3 years outdoor.
 - Customization: multiple spec options, can be customized upon requirements.
 - Single color does not support dimming (If using Mean Well ELG/HLG power supply, it supports PWM dimming within 2KHz)



Optical & Electrical Parameters

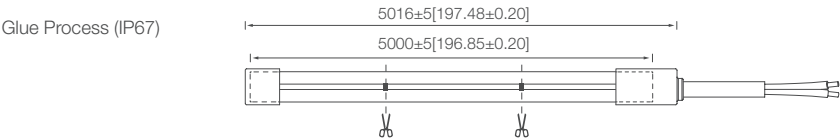
Model No.	Voltage	CRI	Color	Lm/m	Lm/W	W/m
NDF1212-Single color	24V DC	>90	2300K	448	38.3	11.5
			2700K	638	55.7	
			3000K	691	59.8	
			4000K	734	62.8	
			5000K	744	63.7	
			6000K	710	60.8	
		/	Red	260	22.3	
			Green	758	65.0	
			Blue	154	13.2	
			Yellow	184	16.0	
			Orange	304	26.1	
NDF1212-WN	24V DC	>80	3000K	463	64.3	7.2
			6000K	464	64.9	7.2
			W+N	912	63.7	14.4
NDF1212-RGB	24V DC	/	Red	90	19.2	4.8
			Green	234	47.7	4.8
			Blue	48	10.2	4.8
			RGB	356	25.3	14.4

Basic Parameters

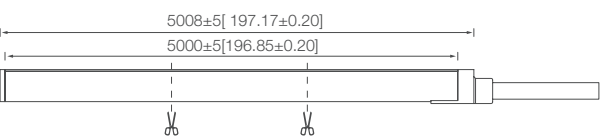
Model No.	LED QTY (pcs/m)	Standard Run	Min. Cuttable Length	Working Temperature	Storage Temperature
NDF1212-Single color	144	15000mm	41.66mm	-20~+60℃	-20~+70℃
NDF1212-WN	240	10000mm	50.0mm		
NDF1212-RGB	120	5000mm	50.0mm		

Profile Drawings

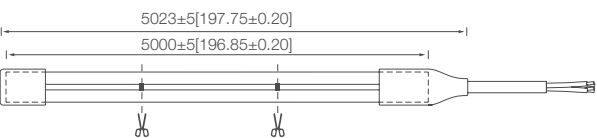
Unit: mm[inch]



Molding pressed (IP67)



Molding pressed (IP68)

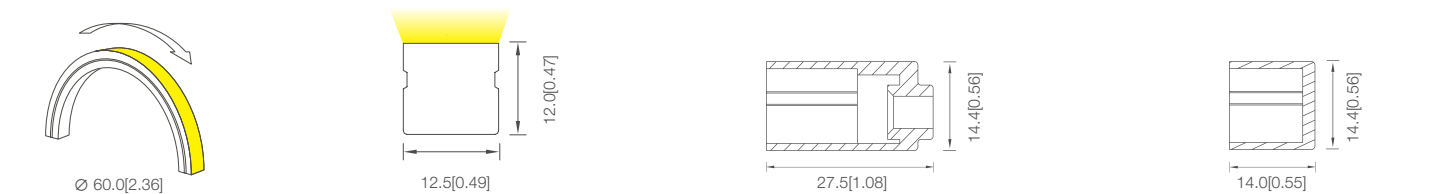


Bending Diameter

Sectional view

Front cap / Glue Process (IP67)

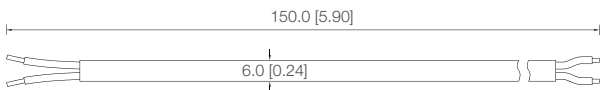
Closing End-cap / Glue Process (IP67)



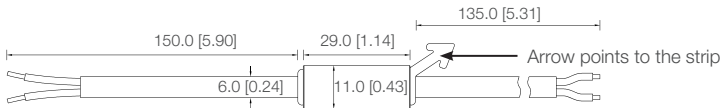
Note:
the strip length supports customization within 5m
IP67 rating: suitable for humid environments, can be soaked for a short period of time, depth not exceeding 1m, and time not exceeding 1h.(Factory assembly only)
IP68 rating: suitable for humid environments, can be soaked for a short period of time, depth not exceeding 1m.(Factory assembly only)

Wire Spec

General Wire



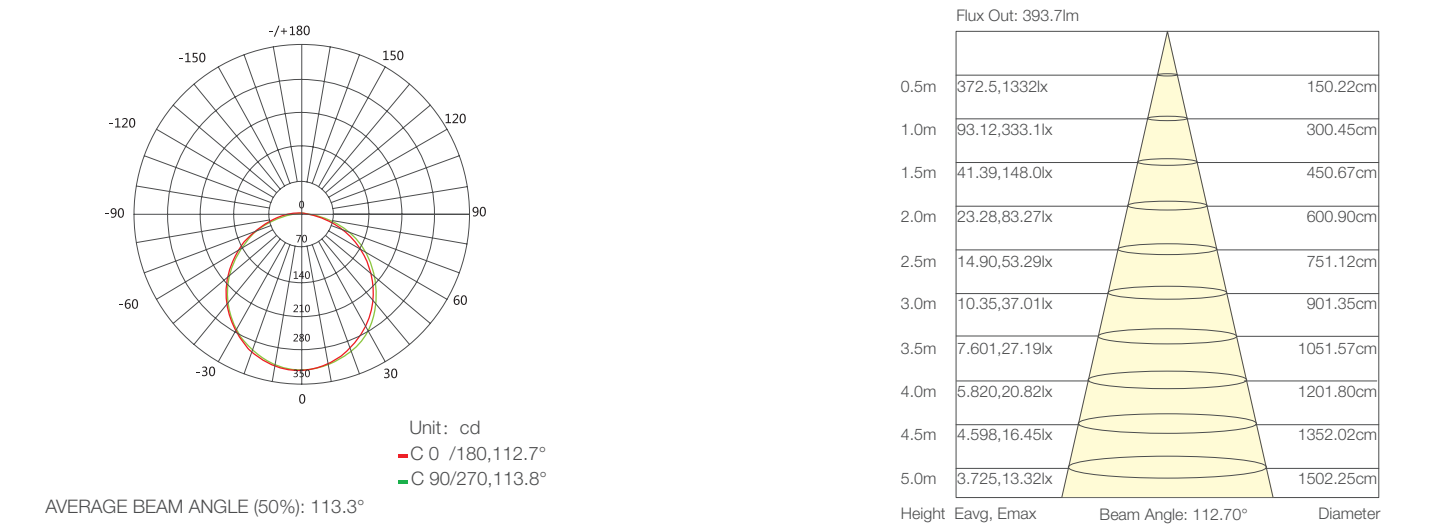
Wire with anti-wicking ferrule



Notes :
- You can choose one of the above two wires.
- 2/3/4/5 cores are available.
- The wire length support customization.
- The anti-wicking ferrule needs to be above water for any underwater applications. Do not disassemble or reprocess the ferrule; otherwise, we will not be responsible for the consequences.

Luminous Intensity Distribution Diagram

Average Illumination



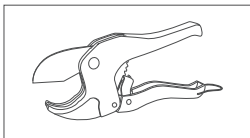
Note: the above two figures are tested with the sample NDF1212-WN at CCT 6000K, for other data, please consult sales rep.

Recommended power supply upon working length

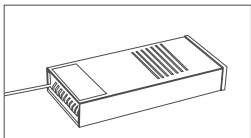
Model No.	NDR1212-Single color		NDF1212-WN		NDF1212-RGB	
Working Length(m)	1	15	1	10	1	5
Measured Current (A)	0.48	7.2	0.6	6	0.6	2.7
Rated Voltage (DC V)	24	24	24	24	24	24
Measured Power(W)	11.52	172.8	14.4	144	14.4	64.8
Recommended Power Supply(W)	24	240	24	200	24	100
Power Supply Mode	Single Feed	Single Feed	Single Feed	Single Feed	Single Feed	Single Feed

Model No.	NDF1212-RGB-R		NDF1212-RGB-G		NDF1212-RGB-B	
Working Length(m)	1	15	1	15	1	15
Measured Current (A)	0.2	2.7	0.2	2.7	0.2	2.7
Rated Voltage (DC V)	24	24	24	24	24	24
Measured Power(W)	4.8	64.8	4.8	64.8	4.8	64.8
Recommended Power Supply(W)	7.2	100	7.2	100	7.2	100
Power Supply Mode	Single Feed	Single Feed	Single Feed	Single Feed	Single Feed	Single Feed

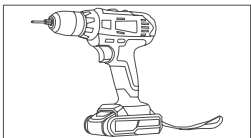
Products and Tools



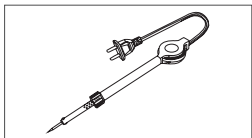
Cutter



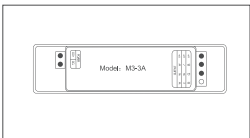
LED power supply



Electric drill



Electric iron



Controller (If needed)

Product accessories



ASY-NDF1212-N00NNH-EC
Item: Front cap
Dimensions L*W*H: 27.5*14.9*14.4mm
Quantity (5/10/15m): 3/6/9pcs
Free/Optional: Free



ASY-NDF1212-N00NNX-EC
Item: Closing End-cap
Dimensions L*W*H: 14*4.9*14.4mm
Quantity (5/10/15m): 3/6/9pcs
Free/Optional: Free



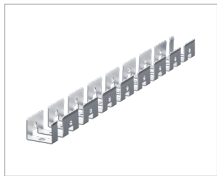
ASY-NDF1212-N00NNL-EC
Item: Front cap (Left outlet)
Dimensions L*W*H: 27.5*20.9*14.4mm
Quantity (5/10/15m): 3/6/9pcs
Free/Optional: Optional



ASY-NDF1212-N00NNR-EC
Item: Front cap (Right outlet)
Dimensions L*W*H: 27*20.4*14.4mm
Quantity (5/10/15m): 3/6/9pcs
Free/Optional: Optional



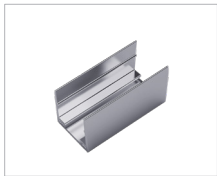
ASY-NDF1212-N00NNB-EC
Item: Front cap (Bottom outlet)
Dimensions L*W*H: 27*20.4*14.9mm
Quantity (5/10/15m): 3/6/9pcs
Free/Optional: Optional



ASY-NDF1212-MNN1000-MT
Item: S-type channel
Dimensions L*W*H: 1000*13.1*9.1mm
Quantity (5/10/15m): 5/10/15pcs
Free/Optional: Optional



ASY-NDF1212-A1NN1000-MT
Item: Aluminum Channel
Dimensions L*W*H: 1000*14.8*15mm
Quantity (5/10/15m): 5/10/15pcs
Free/Optional: Optional



ASY-NDF1212-A3NN0025-MT
Item: 3.5cm Aluminum clip
Dimensions L*W*H: 35*14.8*15mm
Quantity (5/10/15m): 15/30/45pcs
Free/Optional: Optional



ASY-NDF1212-F00NNX-EC
Item: free welding end cap (IP54)
Dimensions L*W*H: 41.21*16.9*15.85mm
Quantity (5/10/15m): --
Free/Optional: Optional



ASY-NDF1212-F00NNL-EC
Item: free welding connector (IP54)
Dimensions L*W*H: 48.5*36.0*15.95mm
Quantity (5/10/15m): --
Free/Optional: Optional

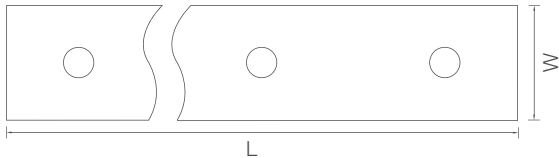


WR-7516
Item: Silicone Glue
Dimensions: 45g/pc
Quantity (5/10/15m): 1pc
Free/Optional: Optional



PA3
Item: Screws
Dimensions L*W*H: PA3*10mm
Quantity (5/10/15m): 30/60/90pcs
Free/Optional: Optional

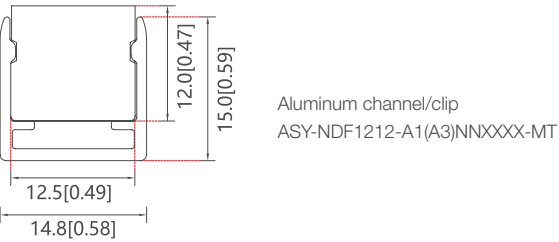
Accessories diagram



Name	L(mm)	W(mm)	Type
3.5cm Aluminum clip	350	14.8	Optional
Aluminum channel	1000	14.8	Optional
Aluminum channel X	X	--	Customized

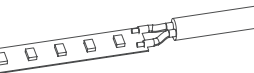
Note:
The quantity of accessories subject to actual needs;
Processing the molded cap needs corresponding molds and molding equipment;
If customer processes the molded cap themselves, we will not be responsible for the consequences;

Profile Drawings (neon + aluminum channel)

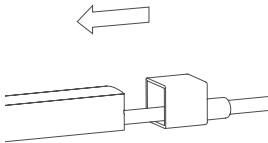


Installation

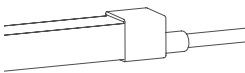
Front cap installation



Weld the wire to the PCB board.



Filling the cap with glue, then install to the strip light.



Wipe off the excess glue and wait to dry

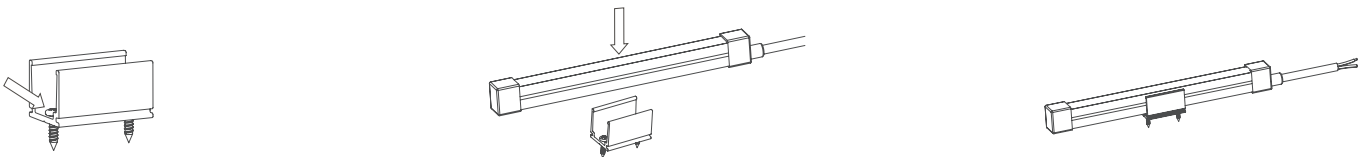
Closing-end cap installation



Filling the cap with glue, then install to the strip light.

Wipe off the excess glue and wait to dry

Aluminum channel installation

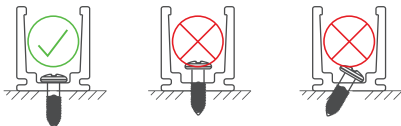


Fix the aluminum channel with screws

Press the strip into the channel

Finished

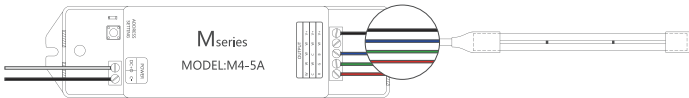
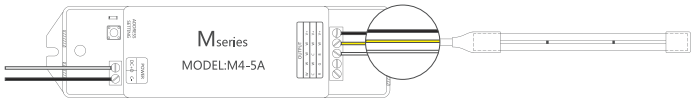
- Notes:
- At the welding place, please pay attention to the positive and negative poles of the wire and the strip;
 - Each connection must use 10g silica gel for waterproof and insulating treatment;
 - The screws must be vertical to the mounting surface and be fastened, as shown in the figure on the right;
 - Please choose suitable operation steps according to the actual needs;
 - During mounting, please pay attention to the min bending diameter, and best to use original factory accessories;
 - More information, please feel free to consult us;



Controller wiring diagram

NDF1212-WN

NDF1212-RGB



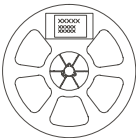
- Notes:
1. The case uses M4-5A CCT controller;
 2. NDF1212-WN supports remote M2 control; NDF1212-RGB supports remote M4 control;
 3. The remote control distance is 30 meters;
 4. M4-5A WN max driven power 120W(12V)/240W(24V); M4-5A RGB max driven power 180W(12V)/360W(24V);
 5. M4-5A controller working voltage: DC12-24V

Packaging Information

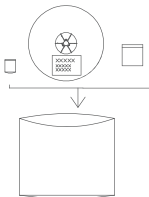
Packaging method - 5m standard run



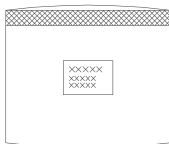
Roll the product to a reel



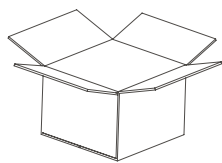
Label the reel;



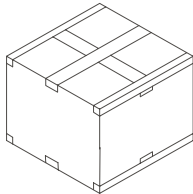
Put reel, accessory bag and desiccant together into a foil bag;



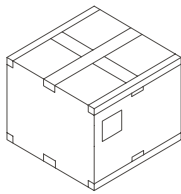
Label the foil bag;



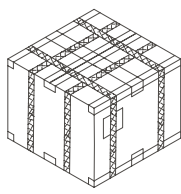
Put the foil bags into a carton box;



Seal the carton box;

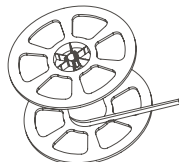


Label the carton box;

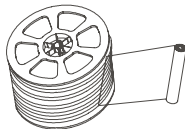


Use packing belt to pack. Add edge protectors if necessary

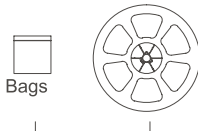
Packaging method - 10/15m standard run



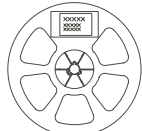
Roll the product to a reel



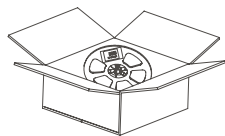
Wrap it with PE film



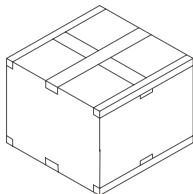
Put the reel and accessories bag on the work table



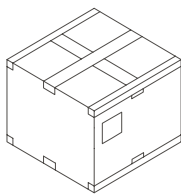
Label the reel;



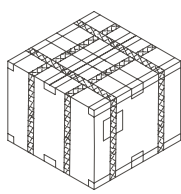
Put the prepared products into a carton box;



Seal the carton box;



Label the carton box;



Use packing belt to pack. Add edge protectors if necessary

Packaging information

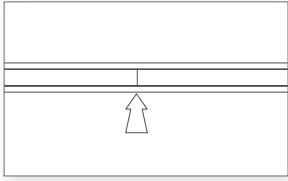
Model No.	Product Size L*W (mm)	Carton Size (mm)	Meter/Reel	Reel/Carton	Gross Weight (kg)
NDF1212-Single color	15000*12.5*12	390*390*325	15	3	11.15 (1± 10%)
NDF1212-WN	10000*12.5*12	390*390*325	10	3	8.45 (1± 10%)
NDF1212-RGB	5000*12.5*12	390*390*325	5	15	17.95 (1± 10%)

- One piece(5/10/15m) per reel, and the reel is packed in a bag, and finally put in a carton.
- For other customized length packaging, please ask our sales rep.
- The above-mentioned packaging quantity and weight are only for the illustrated packaging method. For other packaging methods, the packaging quantity and weight will be different. The actual weight is subject to the actual product.

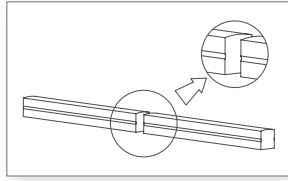
Reliability test

Project	Reference standards	Category	Test conditions	Outcome
Environmental test	Blueview standard	Temperature cycling test	Th = 60°C/4h, Ta =20°C/1H, TL=- 40°C/4h,continuous cycle lighting	Pass
		High temperature resistance test	Simulated TH=60 °C, continuous power on	
		Room temperature bending test	Bending diameter 60mm, continuous power on under room temperature	
		PTC test	Test temperature -40°C to 60°C, cycle once every 2h (temperature holding time 15min, heating and cooling time 45min)	
Mechanical strength testing	Blueview standard	Tensile test	Fix both ends of the sample on the upper and lower clamps of the tensile machine and record the tensile value of the product when the light is off.	Pass
		Twisting test	Light on the sample, forward and reverse rotation 360° one time each, a total of 10 times.	
		Lifting strength test	Fix the sample on the aluminum clip or channel, place the strip side down for 1 hour, and observe whether the light strip falls off.	

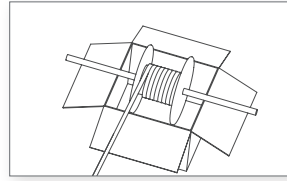
Warning Mark



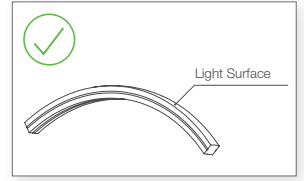
Cuttable identifier



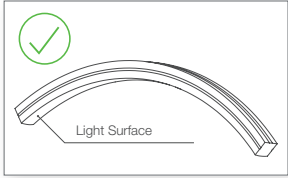
Neat and smooth cut



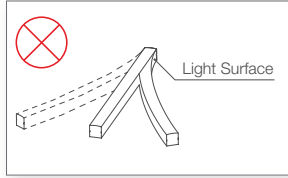
Insert a stick on the reel and place it on the packing box, and rotate the reel to get the product.



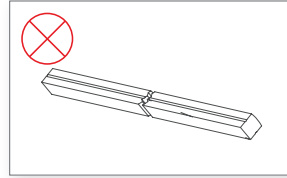
use in convex direction



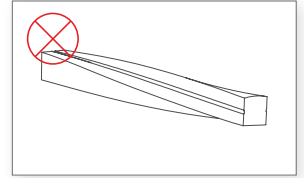
Use in concave direction



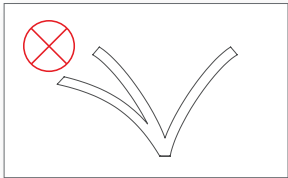
Side bending



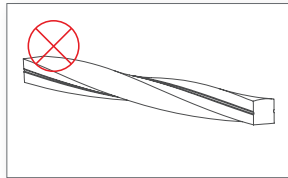
Do not make irregular cuts.



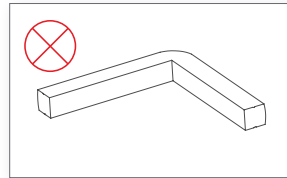
Do not use in distortions



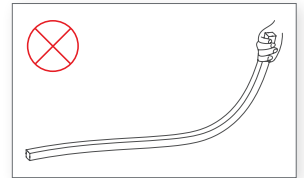
Do not bend many times, for it can endanger electronic lines.



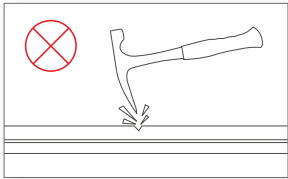
Do not use on wringing (twist)



Do not bend at right angles



Do not throw or pull when taking products



Avoid touching sharp objects

Note:

1. There are cutting marks on the PCB;
2. Please pay attention to above warnings during transportation and using;

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.

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 waterproof and anti-corrosive treatment.

Statements and Recycling

Statements

- Repair should be operated by a qualified technician or supplier, 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
A3.1	Update: Basic Parameters of Single Color	2024-3-14

BLUEVIEW ELEC-OPTIC TECH CO.,LTD

☐ Tel: +86-28-8148 0011

☐ Web.: www.blueviewled.com

☐ Fax: +86-28-8148 1258

☐ Email: sales@blueviewled.com

☐ Add.: No. 1000, Section 2, Konggang 2nd Road, Shuangliu, Chengdu 610207, Sichuan, CHINA