



BNZ LED STRIP

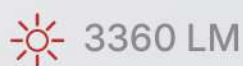
4MM - 120 LED

Model Number: 2835-120-4

2835 SMD NARROW LED STRIP

SIGNAGE | CHANNEL LETTERS

Providing Brighter Solutions



Product Overview

BNZ 2835 Narrow LED Strips are high-brightness, energy-efficient lighting solutions designed for signage, decorative lighting, and commercial applications.

Built with 2835 SMD LEDs, 2 oz double-layer copper PCB, and a 4MM narrow FPCB, these strips offer excellent light output, thermal management, and long service life.

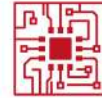
Key Features



High brightness output **2835 SMD LEDs** with copper bracket



Stable illumination with **minimal voltage drop**



Ultra narrow **4mm FPCB width** for compact installations



IP20 suitable for indoor & covered applications



2 Years Warranty



Low light decay for consistent performance



2 oz thick double-layer copper PCB for superior heat dissipation



Energy-efficient design with long operating life



Ideal for **commercial lighting & signage boards**

Available Colors



10000K



4000K



3000K

*Other CCT and colors available on request.

Technical Specifications

Electrical Specifications	
Model Name	BNZ 2835 Narrow 4mm LED Strip
Model No.	2835-120-4
Input Voltage	12V DC
Power Type	Constant Voltage
Power Consumption	9.6W / Meter
LED Type	SMD 2835
LEDs per Meter	120 PCS
Operating Mode	Continuous
IP Rating	IP20
Optical Specifications	
Luminous Efficiency	3120 - 3360 LM / Meter
Beam Angle	120° (Typical)
Color Temperature (CCT)	10000K, 4000K, 3000K
Light Output	High Brightness, Uniform
Light Distribution	Continuous Linear Illumination
Mechanical Specifications	
Strip Width	4 MM
Strip Length	1000 MM / 1 Meter
PCB Type	Flexible PCB
Copper Thickness	2 oz
Cutting Unit	As per marked cut points
Mounting Type	Adhesive Backing



Installation Guidelines



Install on clean and dry surface for maximum adhesion.



Use aluminum profile for better heat dissipation in continuous use.



Avoid bending strips sharply near solder points.



Ensure proper polarity (+ / -) during wiring connection.



Do not exceed recommended load per power supply.

Applications

Signage Boards

Channel Letters

Decorative Lighting

Architectural Accents

Commercial and Retail Lighting

Power Supply Recommendation (20% Safety Margin)

Formula:

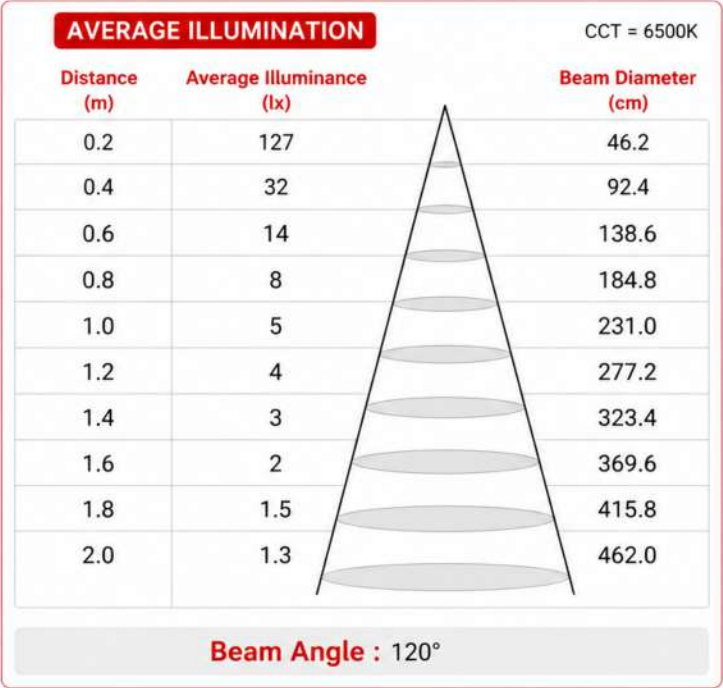
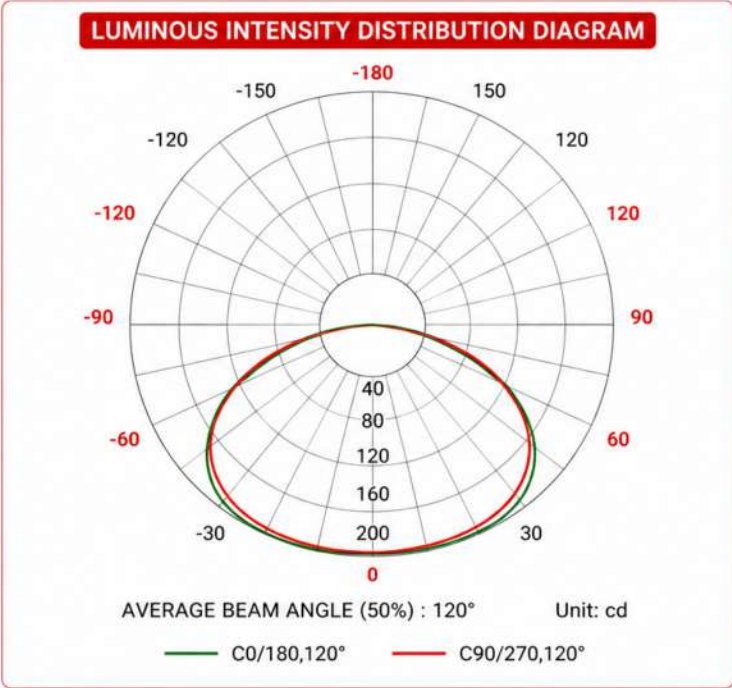
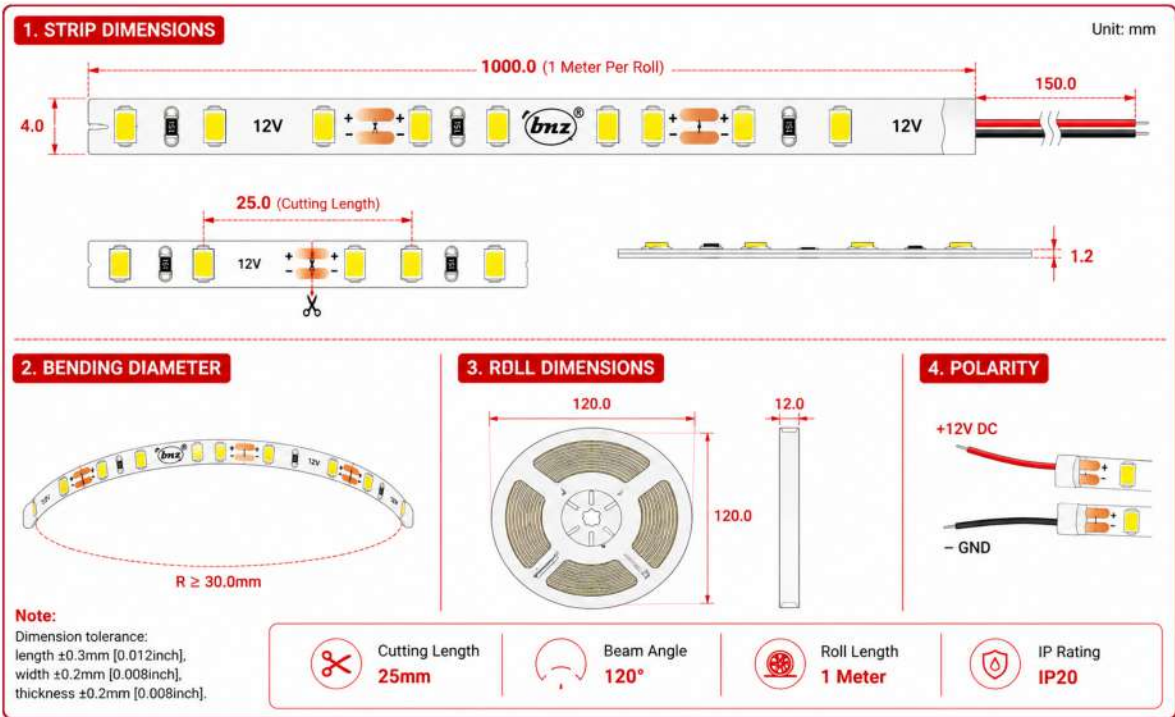
Total Length (m) x 9.6W x 1.2 = Required PSU Wattage

Example: If 5 meters strip is used,

$5 \times 9.6W \times 1.2 = \mathbf{57.6W}$

Use minimum **60W 12V DC** power supply.

Luminous Intensity Distribution Analysis



Note: The above data is tested with BNZ LED Strip 4mm at 12V DC.
Actual performance may vary depending on installation conditions.

Packaging Details

Packaging Type	Quantity
Packing Form	Roll
Standard Length	1 Meter
Protection Type	Anti-static and moisture-safe packaging

Attention 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 LEDs do not turn on.
- Make sure the power cord firmly screwed into the terminal and a should not be pulled out by hands.
- The terminal should have insulation waterproof and anti-corrosive treatment.
- After installation, the fabric light box must be covered with cloth within 48 hours.
- Please avoid leaving the light box idle for a long time.

Important Installation Notes

- Use only 12V DC constant voltage power supply.
- Provide proper ventilation for long runs.
- Do not overload power supplies.
- IP20 rated, suitable for indoor & covered applications.

Warnings

- 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 24 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 maximum run.
- The length of the power cable between the power supply and the led strip should not exceed 2m. Otherwise, large circuit loss will lead to inconsistent brightness.
- Installation, maintenance and repair should be operated by a qualified technician.

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.

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	
	Wrong connection of power supply	
LEDs can not light on partly	Some switching mode power supplies are not powered	Correctly connection
	Power supply line error	
	Mistaken wire connection of some of products	
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 25% 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



For more information

No. 27, Adinath Trade Complex, Adinath Nagar,
200 feet ring road, Jawaharlal Nagar Road,
Madhavaram, Tamil Nadu, Chennai - 600060



+91 9176310595



info@bnzindia.com



bnzindia.com



Chennai | Delhi | Mumbai | Cochin | Bangalore

