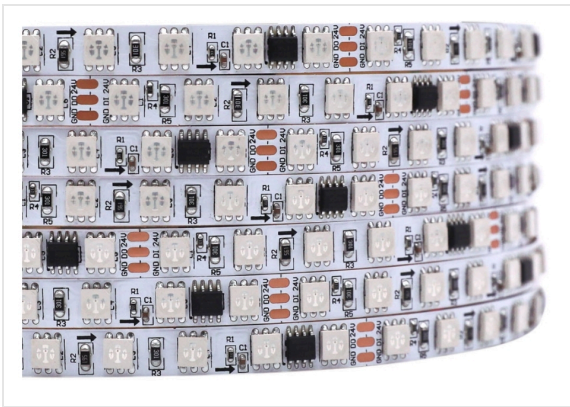




Addressable RGB LED Strip Light,  
SMD5050 84 LEDs/m, 24V, 8mm, IP20

- WS2811 addressable driver ICs enable individual pixel control
- SMD5050 chip density of 84 LEDs per meter for high output
- Operates at 24V DC, drawing 50W per reel
- Rated IP20 for dry indoor installation environments
- Minimum cut length of 2mm for flexible segment sizing
- 1-year warranty on materials and workmanship

OVERVIEW

The M-50N-84-DGT-24V-8MM is an addressable RGB LED strip light built on SMD5050 chips with WS2811 driver ICs, enabling individual pixel control for dynamic color effects. At 84 LEDs per meter and an 8mm strip width, it suits installations requiring high LED density and a low-profile form factor, including cove lighting, display accents, and architectural detail work.

The strip operates at 24V DC and draws 50W, with a rated CRI of 80 and 120° beam angle for even light distribution. Rated IP20, it is intended for dry indoor environments. It carries an ambient operating range of -40°C to 40°C and a rated LED lifetime of 50,000 hours, with a minimum cut length of 2mm for flexible segment sizing.

The strip is backed by a 1-year warranty.

SPECIFICATIONS

OPTICAL

|                   |           |
|-------------------|-----------|
| Efficacy          | 960 lm/W  |
| Color Temperature | 6,500 K   |
| CRI               | 80        |
| Beam Angle        | 120°      |
| LED Chip Type     | SMD5050   |
| LED Density       | 84 LEDs/m |
| LED Lifetime      | 50,000 h  |
| Light Color       | White     |

MECHANICAL

|                    |                 |
|--------------------|-----------------|
| Strip Width        | 8 mm<br>0.31 in |
| Minimum Cut Length | 2 mm<br>0.08 in |
| Finish             | White           |

ORDERING

|          |     |
|----------|-----|
| Warranty | 1 y |
|----------|-----|

ELECTRICAL

|                   |      |
|-------------------|------|
| Operating Voltage | 24 V |
| Wattage           | 50 W |

ENVIRONMENTAL

|                               |                         |
|-------------------------------|-------------------------|
| IP Rating                     | IP20                    |
| Ambient Operating Temperature | -40-40 °C<br>-40-104 °F |

APPLICATIONS

- Cove lighting
- Architectural accent lighting
- Retail display lighting
- Signage backlighting
- Decorative interior lighting

PROVENANCE — REVIEW COPY ONLY

| slug              | value     | source | confidence |
|-------------------|-----------|--------|------------|
| efficacy_lm_per_w | 960 lm/W  | db     | high       |
| cct_k             | 6,500 K   | db     | high       |
| cri               | 80        | db     | high       |
| beam_angle_deg    | 120°      | db     | high       |
| led_chip_type     | SMD5050   | db     | high       |
| led_density       | 84 LEDs/m | db     | high       |
| led_lifetime_h    | 50,000 h  | db     | high       |
| color             | White     | db     | high       |
| operating_voltage | 24 V      | db     | high       |
| wattage           | 50 W      | db     | high       |
| strip_width       | 8 mm      | pdf    | high       |
| min_cut_length    | 2 mm      | db     | high       |
| finish            | White     | db     | high       |
| ip_rating         | IP20      | db     | high       |
| ambient_temp_c    | -40–40 °C | db     | high       |
| warranty_years    | 1 y       | db     | high       |

Specifications subject to change without notice.