



RGB LED Strip Light, SMD5050, 96 LEDs/m, 16W/m, IP20, 24VDC

- SMD5050 chip technology with 96 LEDs per meter density
- Draws 16W per meter at 24VDC operating voltage
- IP20 rated for dry indoor environments
- 120° beam angle with CRI 80 for color rendering
- 50,000 hour rated LED lifetime
- Minimum cut length of 2mm for flexible sizing

OVERVIEW

The M-50N-96-RGB-24V-UL is an indoor RGB LED strip light built on SMD5050 chip technology with a density of 96 LEDs per meter. Designed for commercial and architectural interior applications, it operates on 24VDC and is suited for color-changing accent, cove, and decorative lighting installations.

The strip draws 16W per meter and carries an IP20 rating, making it appropriate for dry indoor environments with an ambient operating range of -40 to 40°C. The 5050 chip format supports full RGB color mixing across the 5-meter reel length, with a 10mm board width that fits standard mounting channels and extrusions. A 120° beam angle and CRI of 80 support even color distribution, and the strip can be cut at intervals as small as 2mm.

The product carries a 1-year warranty.

SPECIFICATIONS

OPTICAL

Efficacy	960 lm/W
CRI	80
Beam Angle	120°
LED Chip Type	SMD5050
LED Density	96 LEDs/m
LED Lifetime	50,000 h
Light Color	RGB

MECHANICAL

Length	5 m 16.4 ft
Strip Width	10 mm 0.39 in
Minimum Cut Length	2 mm 0.08 in
Finish	White

ELECTRICAL

Operating Voltage	24 V
Wattage	16 W

ENVIRONMENTAL

IP Rating	IP20
Ambient Operating Temperature	-40-40 °C -40-104 °F

ORDERING

Warranty

1 y

APPLICATIONS

- Cove lighting
- Architectural accent lighting
- Decorative color-changing installations
- Signage backlighting
- Interior feature walls

PROVENANCE — REVIEW COPY ONLY

slug	value	source	confidence
efficacy_lm_per_w	960 lm/W	db	high
cri	80	db	high
beam_angle_deg	120°	db	high
led_chip_type	SMD5050	db	high
led_density	96 LEDs/m	db	high
led_lifetime_h	50,000 h	db	high
color	RGB	db	high
operating_voltage	24 V	db	high
wattage	16 W	pdf	high
length	5 m	pdf	high
strip_width	10 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.