

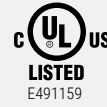
# B5050-24V-60-10MM-14.4W-RGB-IPYY

LED Engines




## FEATURES

- Single row, SMD 5050
- 18.3 LED/ft / 60 LED/m
- Width: 3/8 in / 10mm
- Length: 16.4ft / 5m
- 24V
- 4.4 W/ft / 14.4 W/m



| 24V LED ENGINE - IP22            |         | QUANTITY | 24V LED ENGINE - IP68            |         | QUANTITY |
|----------------------------------|---------|----------|----------------------------------|---------|----------|
| B5050-24V-60-10mm-14.4W-RGB-IP22 | LM28336 |          | B5050-24V-60-10mm-14.4W-RGB-IP68 | LM28338 |          |

### CUSTOM OPTIONS:

| SMD TYPE        | INPUT VOLTAGE | LED DENSITY   | STRIP WIDTH    | RATED POWER        | COLOR   | USAGE  | LEAD IN / OUT  | STRIP LENGTH  |        |
|-----------------|---------------|---------------|----------------|--------------------|---|--|--|---|--------|
| B5050 - 5 x 5mm | 24V - 24 volt | 60 - 60 LED/m | 10mm (3/8 in.) | 14.4W/m (4.4 W/ft) |  RGB | IP22 - indoor dry location<br><br>IP68 - wet/damp location | HW3 - Hardwire 36"<br>HW6 - Hardwire 72"<br>HW9 - Hardwire 108"<br>HWX - Hardwire cust.<br>DC3 - DC plug 36"<br>DC6 - DC plug 72"<br>DC9 - DC plug 108"<br>DCX - DC plug cust.<br>NO - No lead | Custom length up to 420 inches.<br><br>Quick ship regular roll is 196 inches - 12 in HW only. |        |
| <b>B5050</b>    | <b>24V</b>    | <b>60</b>     | <b>10MM</b>    | <b>14.4W</b>       | <b>RGB</b>  |  |  |   |        |
| SMD TYPE        | INPUT VOLTAGE | LED/M         | WIDTH          | W/M                | RGB / RGBW  | USAGE  | IN   | OUT   | LENGTH |

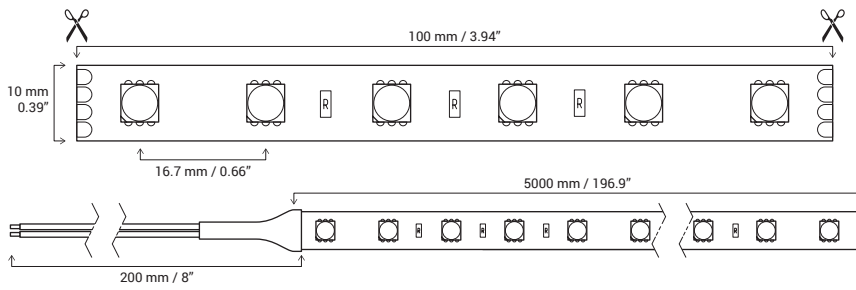
# B5050-24V-60-10mm-14.4W-RGB-IP22/IP68

## Specification Sheet



### PHYSICAL

|                           |                    |                       |                    |
|---------------------------|--------------------|-----------------------|--------------------|
| Product Type              | Flexible LED Strip |                       |                    |
| SMD Type                  | 5050               |                       |                    |
| Strip Width               | 2/5 in             | 10 mm (IP22)          | 12 mm (IP68)       |
| Strip Total Length (Roll) | 16.4 ft            | 5 m                   |                    |
| LED Linear Density        | 18.3 LED/ft        | 60 LED/m              | 300 LED/roll total |
| Can be cut at every       | 3.94 in            | 100 mm                | 6 LED              |
| Storage Temperature       | -40°C to +80°C     | Operating Temperature | -25°C to +40°C     |
| Lifespan                  | 50 000 Hrs         |                       |                    |



Electrical Input

Rated Power (Max.)

CONSTANT  
VOLTAGE**24V DC****72 W/roll**

### ELECTRICAL

|                           |                      |                 |                        |
|---------------------------|----------------------|-----------------|------------------------|
| Input Type                | DC, Constant Voltage |                 |                        |
| Input Voltage             | 24V DC               |                 |                        |
| <b>Rated Power (Max.)</b> | <b>4.4 W/ft</b>      | <b>14.4 W/m</b> | <b>72 W/roll total</b> |

### PRODUCT RANGE

| Part Number                      | Code    | IP   | CCT* | Flux RGB Ratio         | Luminous Flux | Luminous Efficacy | CRI** | duv***  |
|----------------------------------|---------|------|------|------------------------|---------------|-------------------|-------|---------|
| B5050-24V-60-10mm-14.4W-RGB-IP22 | LM28336 | IP22 | RGB  | R=27.1% G=64.3% B=8.6% | 1154.7 lm     | 18.17 lm/W        | 20.3  | -0.0018 |
| B5050-24V-60-10mm-14.4W-RGB-IP68 | LM28338 | IP68 |      |                        |               |                   |       |         |

CCT\* - Correlated Color Temperature  
 CRI\*\* - Colour Rendering Index  
 duv\*\*\* - Black-body Curve Deviation

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# B5050-24V-60-10mm-14.4W-RGB-IP22/IP68

## Test Data for 1 Meter LED Strip Length



### Chroma Parameters

Chromaticity Coordinates:  $x=0.2587, y=0.2275, u=0.1985, v=0.2619, duv=-0.018$   
 Correlated Color Temperature: 50000K  
 Dominant Wave.: 468.3nm  
 Purity: 36.9%  
 Flux RGB Ratio: R=27.1%, G=64.3%, B=8.6%  
 Peak Wave: 633nm  
 Half Width: 18.4nm

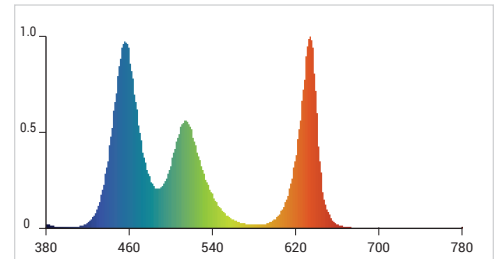
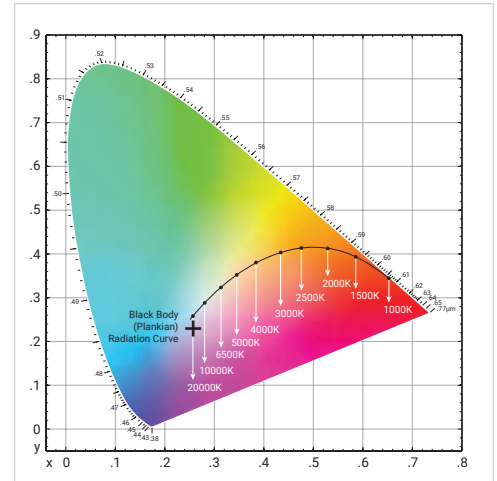
### Rendering Index: Ra=20.3

R1=-6 R2=40 R3=65 R4=5 R5=17 R6=38 R7=50  
 R8=-43 R9=-338 R10=-47 R11=-22 R12=45 R13=0 R14=73

### Photo Parameters

**Luminous Flux:** 1154.7 lm  
**Luminous Efficacy:** 18.17 lm/W

C.I.E. 1931 Chromaticity Diagram



# NOTES

