

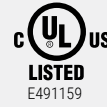
# B5050-24V-60-12MM-14.4W-RGBXXXK-IPYY

LED Engines



## FEATURES

- Single row, SMD 5050
- 18.3 LED/ft / 60 LED/m
- Width: 1/2 in / 12mm
- 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-60-12mm-14.4W-RGB3000K-IP22	LM28339	B5050-24V-60-12mm-14.4W-RGB3000K-IP68	LM28339-05

### 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	12mm (1/2 in.)	14.4W/m (4.4 W/ft)	RGB+3000K	IP22 - indoor dry location  IP68 - wet/damp location	HW3 - Hardwire 36" HW6 - Hardwire 72" HW9 - Hardwire 108" HWX - Hardwire cust. DC3 - DC plug 36" DC6 - DC plug 72" DC9 - DC plug 108" DCX - DC plug cust. NO - No lead	Custom length up to 420 inches.  Quick ship regular roll is 196 inches - 12 in HW only.	
<b>B5050</b>	<b>24V</b>	<b>60</b>	<b>12MM</b>	<b>14.4W</b>	<b>RGB+3000K</b>				
SMD TYPE	INPUT VOLTAGE	LED/M	WIDTH	W/M	RGB / RGBW	USAGE	IN	OUT	LENGTH

# B5050-24V-60-12MM-14.4W-RGB3000K-4IN1

## Specification Sheet

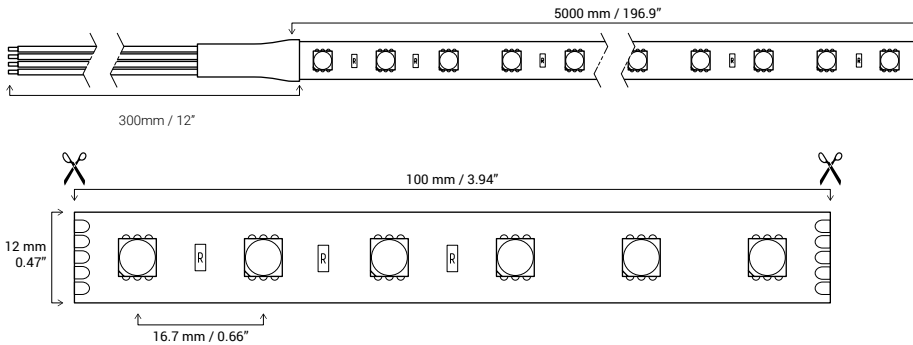


### PHYSICAL

Product Type	Flexible LED Strip		
SMD Type	5050		
Strip Width	1/2 in	12 mm (IP20)	14 mm (IP67)
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	-20°C to +40°C
Lifespan	50 000 Hrs		

### 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>



Electrical Input

Rated Power (Max.)

CONSTANT VOLTAGE	<b>24V DC</b>	<b>72 W/roll</b>
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### PRODUCT RANGE

Part Number	Code	IP	CCT*	Flux RGB Ratio	Luminous Flux (White)	Luminous Efficacy	CRI**	duv***
B5050-24V-60-12MM-14.4W-RGB3000K-IP22	LM28339	IP22	RGB+ 3000K	R=96.8% G=99.0% B=81.2%	<b>300.5 lm</b>	73.6lm/W	82.3	0.0009
B5050-24V-60-12MM-14.4W-RGB3000K-IP68	LM28339-05	IP68						

Information for 1m of tape

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

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# B5050-24V-60-12MM-14.4W-RGB3000K-4IN1

## Test Data for 1 Meter LED Strip Length (White)



### Chroma Parameters

Chromaticity Coordinates:  $x=0.4432, y=0.4084, u=0.2527, v=0.3493, duv=0.0009$   
 Correlated Color Temperature: 2932K  
 Dominant Wave.: 582.8nm  
 Purity: 55.6%  
 Flux RGB Ratio: R=23.3%, G=75.2%, B=1.6%  
 Peak Wave: 603.7nm  
 Half Width: 120.5nm

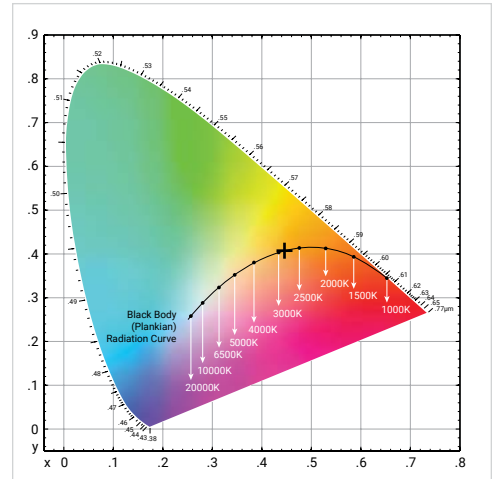
### Rendering Index: Ra=82.3

R1 = 80   R2 = 91   R3 = 96   R4 = 81   R5 = 82   R6 = 91   R7 = 81   R8 = 56  
 R9 = 4   R10=80   R11=81   R12=74   R13=82   R14=99   R15=72

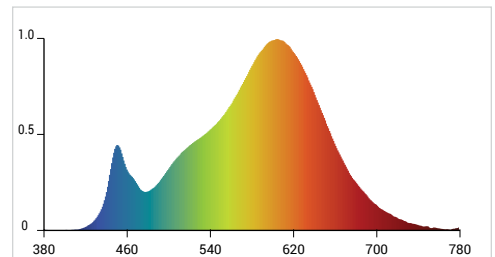
### Photo Parameters

Luminous Flux: 300.45 lm  
 Luminous Efficacy: 73.6 lm/W  
 Radiant Flux: 994.6 mW  
 Iv: 0.0 mcd

C.I.E. 1931 Chromaticity Diagram



Spectral Ratio: R=43.1%, G=45.9%, B=11.1%



# B5050-24V-60-12MM-14.4W-RGB3000K-4IN1

## Test Data for 1 Meter LED Strip Length (Red)



### Chroma Parameters

Chromaticity Coordinates:  $x=0.6959, y=0.3035, u=0.5302, v=0.3468, duv=-0.0008$   
 Correlated Color Temperature: 1362K  
 Dominant Wave.: 622.6nm  
 Purity: 99.8%  
 Flux RGB Ratio: R=96.8%, G=3.2%, B=0.0%  
 Peak Wave: 632.5nm  
 Half Width: 18.7nm

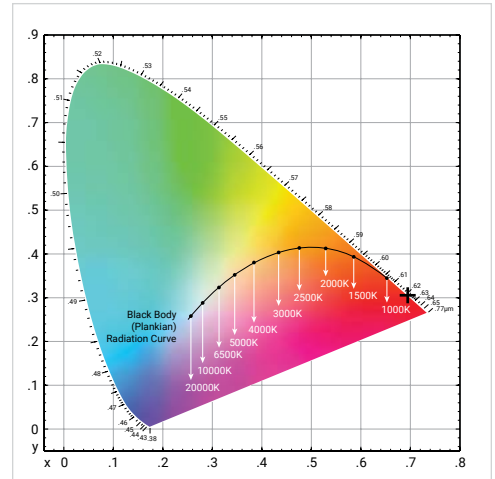
### Rendering Index: Ra=-12.7

R1 = -31 R2 = 64 R3 = 7 R4 = -77 R5 = -44 R6 = 38 R7 = 14 R8 = -77  
 R9 = -300 R10=54 R11=-92 R12=14 R13=-3 R14=37 R15=-57

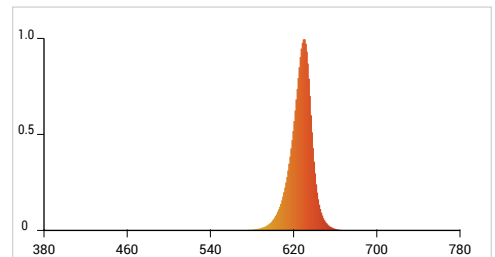
### Photo Parameters

Luminous Flux: 75.68 lm  
 Luminous Efficacy: 22.2 lm/W  
 Radiant Flux: 479.4 mW  
 Iv: 0.0 mcd

C.I.E. 1931 Chromaticity Diagram



Spectral Ratio: R=98.7%, G=1.3%, B=0.0%



# B5050-24V-60-12MM-14.4W-RGB3000K-I4IN1

## Test Data for 1 Meter LED Strip Length (Green)



### Chroma Parameters

Chromaticity Coordinates:  $x=0.1241, y=0.7133, u=0.0439, v=0.3784, duv=0.1691$   
 Correlated Color Temperature: 8721K  
 Dominant Wave.: 518.1nm  
 Purity: 76.5%  
 Flux RGB Ratio: R=0.2%, G=99.0%, B=0.9%  
 Peak Wave: 514.5nm  
 Half Width: 30.3nm

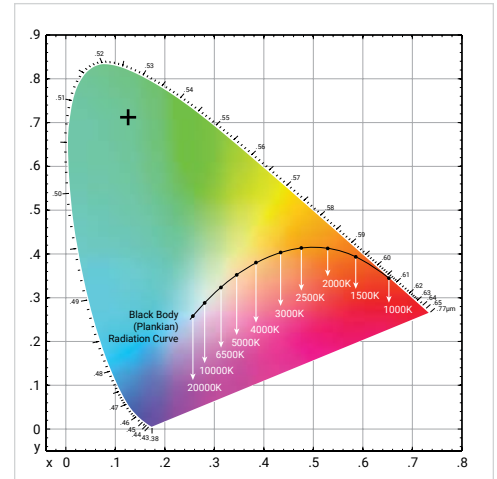
### Rendering Index: Ra=-26.5

R1 = -34 R2 = -10 R3 = -31 R4 = -71 R5 = -13 R6 = -19 R7 = -4 R8 = -26  
 R9 = -354 R10 = -111 R11 = -97 R12 = -34 R13 = -42 R14 = 34 R15 = -30

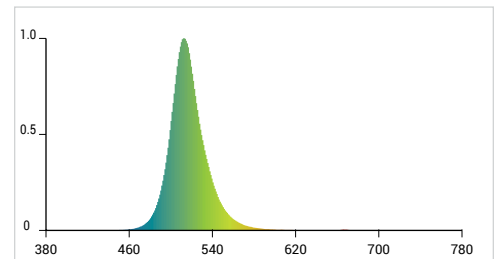
### Photo Parameters

Luminous Flux: 176.07 lm  
 Luminous Efficacy: 48.9 lm/W  
 Radiant Flux: 417.4 mW  
 Iv: 0.0 mcd

C.I.E. 1931 Chromaticity Diagram



Spectral Ratio: R=0.3%, G=96.0%, B=3.7%



# B5050-24V-60-12MM-14.4W-RGB3000K-4IN1

## Test Data for 1 Meter LED Strip Length (Blue)



### Chroma Parameters

Chromaticity Coordinates:  $x=0.1422, y=0.0419, u=0.1767, v=0.0781, duv=-0.0427$   
 Correlated Color Temperature: 100000K  
 Dominant Wave.: 463.4nm  
 Purity: 98.1%  
 Flux RGB Ratio: R=0.1%, G=18.7%, B=81.2%  
 Peak Wave: 458.7nm  
 Half Width: 23.8nm

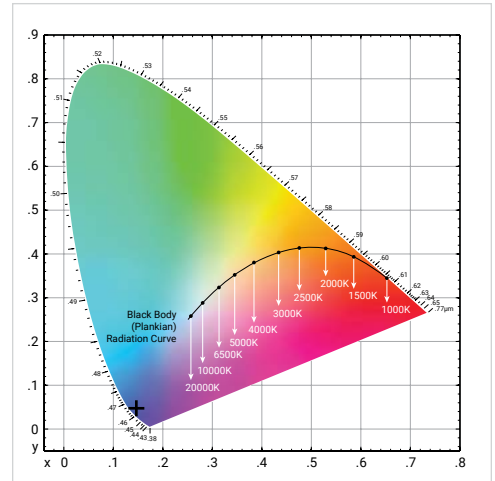
### Rendering Index: Ra=-60.0

R1 = -11 R2 = -44 R3 = -141 R4 = -94 R5 = -18 R6 = -74 R7 = -54 R8 = -35  
 R9 = -290 R10 = -237 R11 = -128 R12 = -129 R13 = -27 R14 = -31 R15 = 10

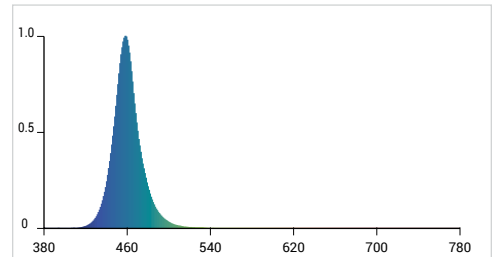
### Photo Parameters

Luminous Flux: 33.66 lm  
 Luminous Efficacy: 9.8 lm/W  
 Radiant Flux: 616.3 mW  
 Iv: 0.0 mcd

C.I.E. 1931 Chromaticity Diagram



Spectral Ratio: R=0.1%, G=3.9%, B=96.0%



# NOTES

