

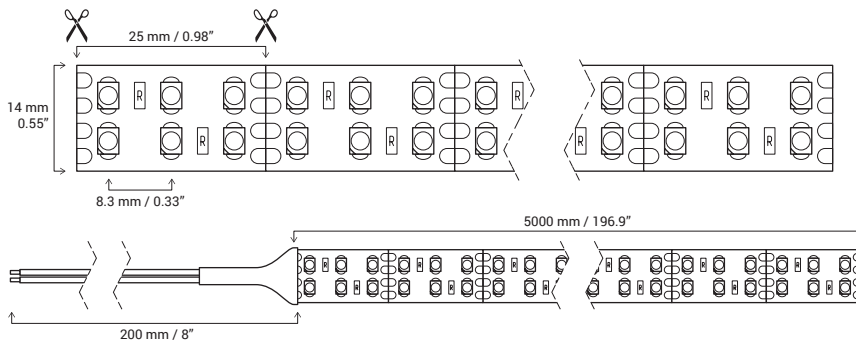
# B3528-24V-240-14mm-19.2W-XXK-IPYY

## Specification Sheet



### PHYSICAL

Product Type	Flexible LED Strip		
SMD Type	3528		
Strip Width	11/20 in	14 mm (IP22)	18 mm (IP68)
Strip Total Length (Roll)	16.4 ft	5 m	
LED Linear Density	73.2 LED/ft	240 LED/m	1200 LED/roll total
Can be cut at every	0.98 in	25 mm	6 LED
Storage Temperature	-40°C to +80°C	Operating Temperature -25°C to +40°C	
Lifespan	50 000 Hrs		



### ELECTRICAL

Input Type	DC, Constant Voltage		
Input Voltage	24V DC		
<b>Rated Power (Max.)</b>	<b>5.9 W/ft</b>	<b>19.2 W/m</b>	<b>96 W/roll total</b>

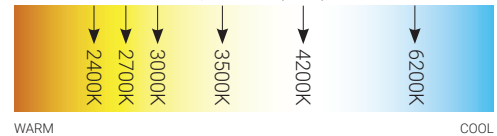


Electrical Input

Rated Power (Max.)

**CONSTANT VOLTAGE 24V DC 96 W/roll**

Correlated Color Temperature (CCT)



### PRODUCT RANGE

Part Number	Code	IP	CCT*	Luminous Flux			Luminous Efficacy	CRI**	R9	duv***
B3528-24V-240-14mm-19.2W-2400K-IP22	LM28194	IP22	2400K	<b>385.8 lm/ft</b>	<b>1265.8 lm/m</b>	<b>6329 lm/roll</b>	65.9 lm/W	91.2	56	0.0006
B3528-24V-240-14mm-19.2W-2400K-IP68	LM28198	IP68	(Candle Light)							
B3528-24V-240-14mm-19.2W-2700K-IP22	LM28195	IP22	2700K	<b>401.1 lm/ft</b>	<b>1316.0 lm/m</b>	<b>6580 lm/roll</b>	74.5 lm/W	92.8	66	0.0008
B3528-24V-240-14mm-19.2W-2700K-IP68	LM28197	IP68	(Soft White)							
B3528-24V-240-14mm-19.2W-3000K-IP22	LM28201	IP22	3000K	<b>407.2 lm/ft</b>	<b>1336.1 lm/m</b>	<b>6681 lm/roll</b>	80.0 lm/W	92.0	62	0.0010
B3528-24V-240-14mm-19.2W-3000K-IP68	LM28203	IP68	(Warm White)							
B3528-24V-240-14mm-19.2W-3500K-IP22	LM28211	IP22	3500K	<b>407.9 lm/ft</b>	<b>1338.3 lm/m</b>	<b>6692 lm/roll</b>	80.0 lm/W	94.9	87	-0.0000
B3528-24V-240-14mm-19.2W-3500K-IP68	LM28213	IP68	(Bright White)							
B3528-24V-240-14mm-19.2W-4200K-IP22	LM28221	IP22	4200K	<b>444.4 lm/ft</b>	<b>1457.8 lm/m</b>	<b>7289 lm/roll</b>	81.4 lm/W	93.0	79	0.0011
B3528-24V-240-14mm-19.2W-4200K-IP68	LM28223	IP68	(Neutral White)							
B3528-24V-240-14mm-19.2W-6200K-IP22	LM28231	IP22	6200K	<b>453.3 lm/ft</b>	<b>1487.2 lm/m</b>	<b>7436 lm/roll</b>	83.4 lm/W	82.7	7	0.0034
B3528-24V-240-14mm-19.2W-6200K-IP68	LM28233	IP68	(Cool White)							

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

Other CCT available upon request. Please contact your authorized representative.

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# B3528-24V-240-14mm-19.2W-2400K-IP22/IP68

## Test Data for 1 Meter LED Strip Length



### Chroma Parameters

Chromaticity Coordinates:  $x=0.4877, y=0.4164, u=0.2778, v=0.3558, duv=-0.0006$   
 Correlated Color Temperature: 2395K  
 Dominant Wave.: 585.8nm  
 Purity: 71.4%  
 Flux RGB Ratio: R=29.0%, G=69.9%, B=1.1%  
 Peak Wave: 625.5nm  
 Half Width: 133.7nm

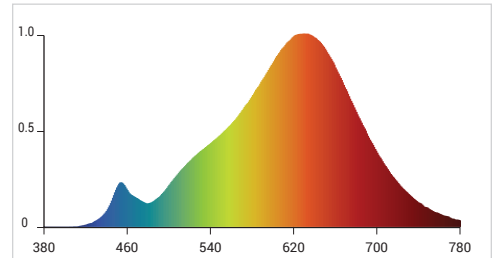
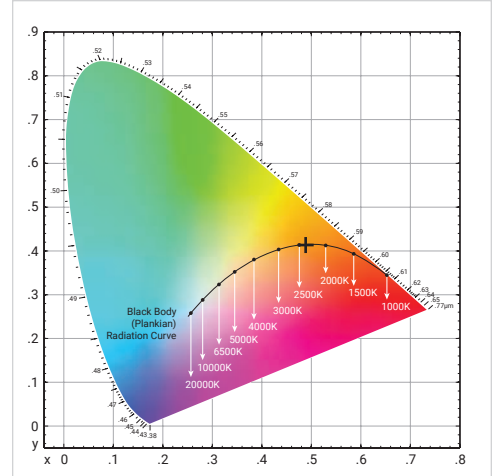
### Rendering Index: Ra=91.2

R1 = 91 R2 = 95 R3 = 98 R4 = 93 R5 = 92 R6 = 96 R7 = 90 R8 = 78  
 R9 = 56 R10=89 R11=94 R12=85 R13=92 R14=98 R15=86

### Photo Parameters

**Luminous Flux: 1265.8 lm**  
 Luminous Efficacy: 65.9 lm/W  
 Radiant Flux: 5198.2 mW  
 Iv: 0.0 mcd

C.I.E. 1931 Chromaticity Diagram



# B3528-24V-240-14mm-19.2W-2700K-IP22/IP68

## Test Data for 1 Meter LED Strip Length



### Chroma Parameters

Chromaticity Coordinates:  $x=0.4503, y=0.4103, u=0.2565, v=0.3505, duv=0.0008$   
 Correlated Color Temperature: 2836K  
 Dominant Wave.: 583.3nm  
 Purity: 58.3%  
 Flux RGB Ratio: R=25.2%, G=73.3%, B=1.5%  
 Peak Wave: 626.6nm  
 Half Width: 162.0nm

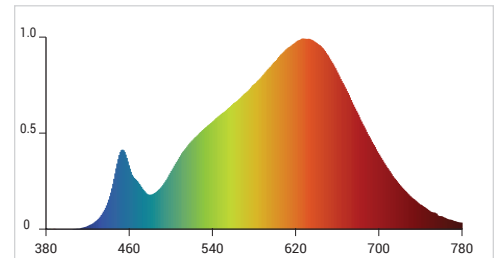
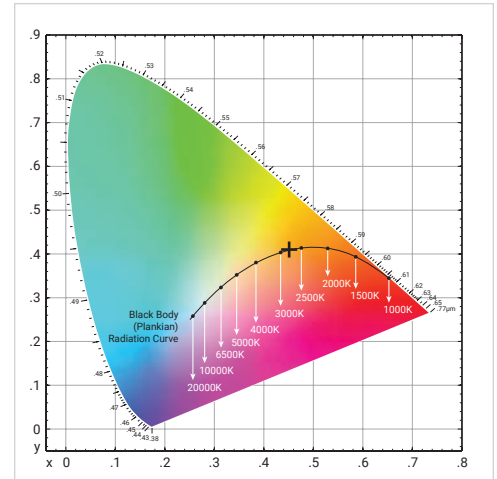
### Rendering Index: Ra=92.8

R1 = 93   R2 = 95   R3 = 96   R4 = 93   R5 = 92   R6 = 94   R7 = 94   R8 = 85  
 R9 = 66   R10=88   R11=93   R12=79   R13=94   R14=97   R15=90

### Photo Parameters

**Luminous Flux: 1316 lm**  
 Luminous Efficacy: 74.5 lm/W  
 Radiant Flux: 3903.9 mW  
 Iv: 0.0 mcd

C.I.E. 1931 Chromaticity Diagram



# B3528-24V-240-14mm-19.2W-3000K-IP22/IP68

## Test Data for 1 Meter LED Strip Length



### Chroma Parameters

Chromaticity Coordinates:  $x=0.4265, y=0.4028, u=0.2444, v=0.3462, duv=0.0010$   
 Correlated Color Temperature: 3067K  
 Dominant Wave.: 581.7nm  
 Purity: 48.9%  
 Flux RGB Ratio: R=23.0%, G=75.3%, B=1.8%  
 Peak Wave: 624.6nm  
 Half Width: 174.7nm

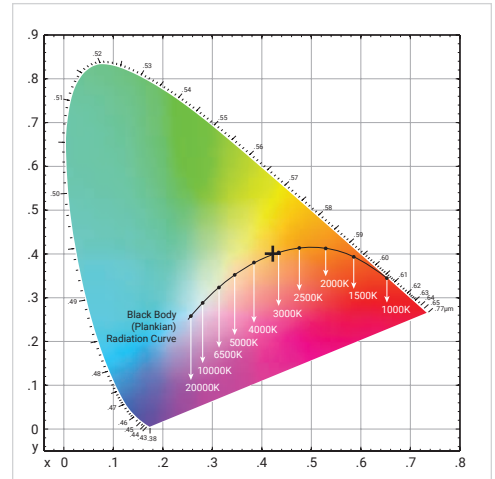
### Rendering Index: Ra=92

R1 = 92 R2 = 94 R3 = 95 R4 = 93 R5 = 92 R6 = 92 R7 = 94 R8 = 84  
 R9 = 62 R10=86 R11=93 R12=75 R13=92 R14=97 R15=89

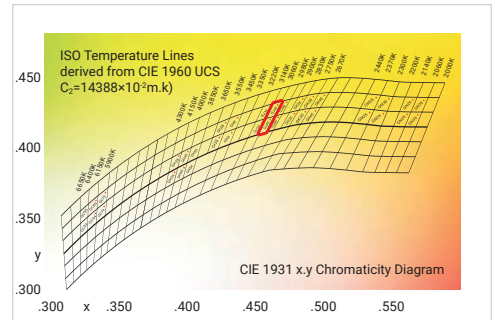
### Photo Parameters

**Luminous Flux:** 1336.1 lm  
 Luminous Efficacy: 80 lm/W  
 Radiant Flux: 4170.4 mW  
 Iv: 0.0 mcd

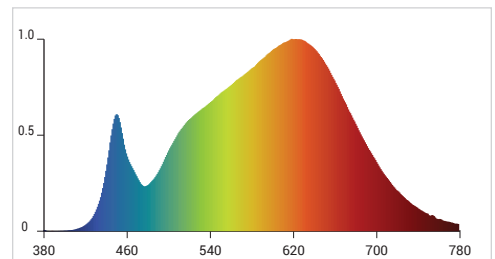
C.I.E. 1931 Chromaticity Diagram



Binning: GJ45-46 (3060-3140K)



Spectral Ratio: R=49.3%, G=39.6%, B=11.1%



# B3528-24V-240-14mm-19.2W-3500K-IP22/IP68

## Test Data for 1 Meter LED Strip Length



### Chroma Parameters

Chromaticity Coordinates:  $x=0.4030, y=0.3895, u=0.2347, v=0.3403, duv=-0.0000$   
 Correlated Color Temperature: 3598K  
 Dominant Wave.: 580.7nm  
 Purity: 37.9%  
 Flux RGB Ratio: R=21.6%, G=76.3%, B=2.1%  
 Peak Wave: 634.8nm  
 Half Width: 190.4nm

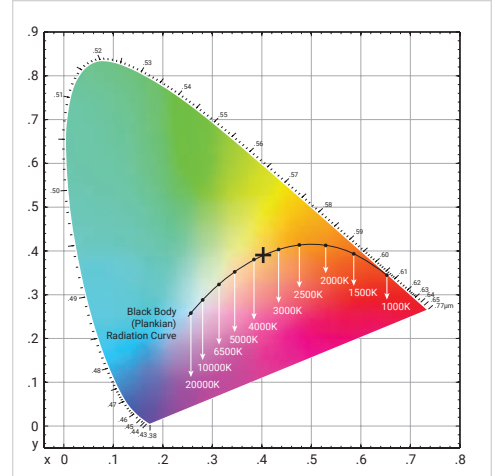
### Rendering Index: Ra=94.9

R1 = 96 R2 = 96 R3 = 93 R4 = 95 R5 = 94 R6 = 92 R7 = 97 R8 = 96  
 R9 = 87 R10=88 R11=95 R12=74 R13=96 R14=95 R15=97

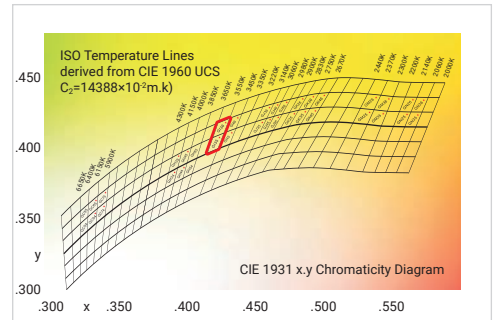
### Photo Parameters

**Luminous Flux: 1338.3 lm**  
 Luminous Efficacy: 80 lm/W  
 Radiant Flux: 4280.7 mW  
 Iv: 0.0 mcd

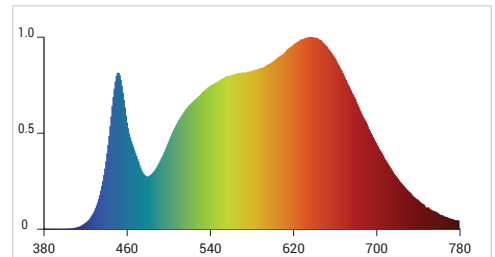
C.I.E. 1931 Chromaticity Diagram



Binning: G135-36 (3550-3650K)



Spectral Ratio: R=48.6%, G=38.3%, B=13.1%



# B3528-24V-240-14mm-19.2W-4200K-IP22/IP68

## Test Data for 1 Meter LED Strip Length



### Chroma Parameters

Chromaticity Coordinates:  $x=0.3796, y=0.3786, u=0.2239, v=0.3348, duv=0.0011$   
 Correlated Color Temperature: 4231K  
 Dominant Wave.: 578.3nm  
 Purity: 27.6%  
 Flux RGB Ratio: R=19.5%, G=78.0%, B=2.6%  
 Peak Wave: 450.5nm  
 Half Width: 25.4nm

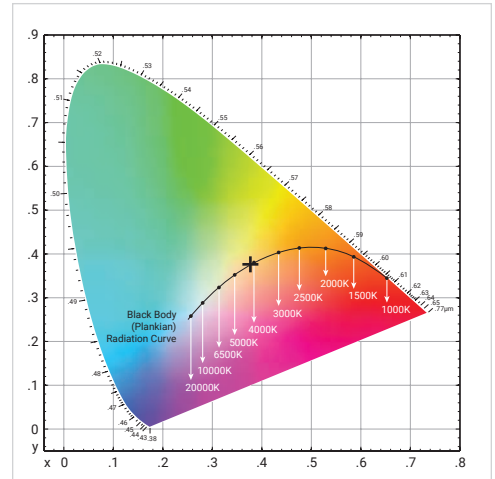
### Rendering Index: Ra=93

R1 = 94 R2 = 94 R3 = 93 R4 = 93 R5 = 92 R6 = 89 R7 = 97 R8 = 93  
 R9 = 79 R10=84 R11=92 R12=68 R13=94 R14=95 R15=93

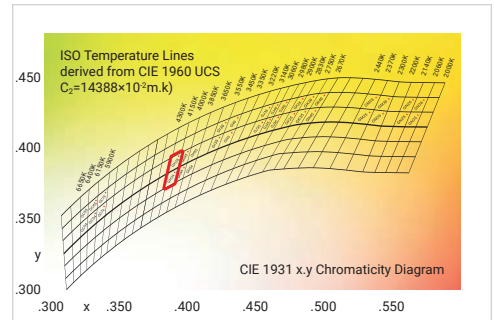
### Photo Parameters

**Luminous Flux:** 1457.8 lm  
 Luminous Efficacy: 81.4 lm/W  
 Radiant Flux: 4781.8 mW  
 Iv: 0.0 mcd

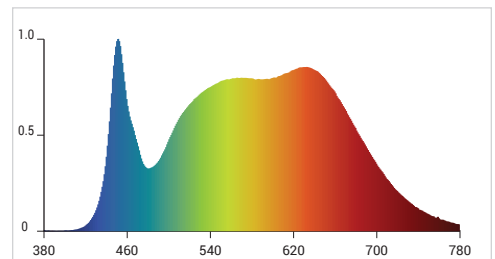
C.I.E. 1931 Chromaticity Diagram



Binning: GH34-35 (4150-4300K)



Spectral Ratio: R=43.0%, G=40.6%, B=16.4%



# B3528-24V-240-14mm-19.2W-6200K-IP22/IP68

## Test Data for 1 Meter LED Strip Length



### Chroma Parameters

Chromaticity Coordinates:  $x=0.3179, y=0.3346, u=0.1994, v=0.3147, duv=0.0034$   
 Correlated Color Temperature: 6199K  
 Dominant Wave.: 492.8nm  
 Purity: 5.1%  
 Flux RGB Ratio: R=13.7%, G=82.7%, B=3.6%  
 Peak Wave: 448.6nm  
 Half Width: 22.0nm

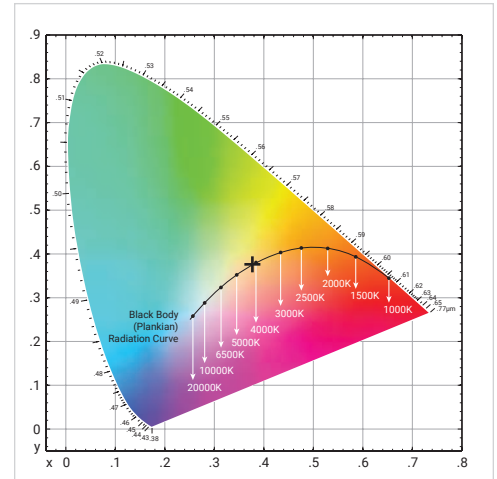
### Rendering Index: Ra=82.7

R1 = 81   R2 = 86   R3 = 90   R4 = 84   R5 = 82   R6 = 81   R7 = 87   R8 = 70  
 R9 = 7   R10=68   R11=83   R12=60   R13=82   R14=95   R15=76

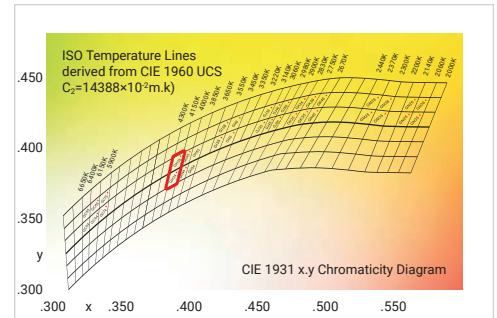
### Photo Parameters

**Luminous Flux:** 1487.2 lm  
 Luminous Efficacy: 83.4 lm/W  
 Radiant Flux: 4455.2 mW  
 Iv: 0.0 mcd

C.I.E. 1931 Chromaticity Diagram



Binning: GH34-35 (4150-4300K)



Spectral Ratio: R=22.5%, G=48.2%, B=29.4%

