

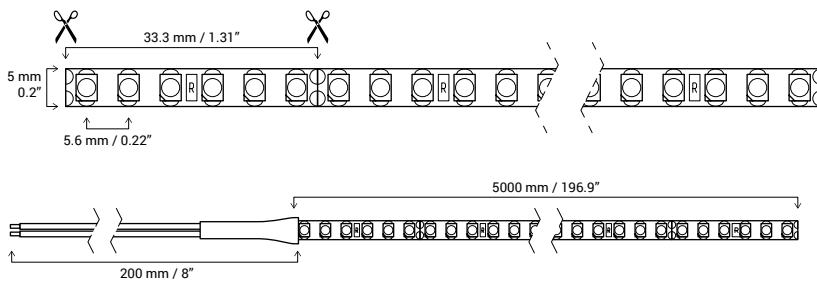
# B3528-24V-180-5mm-14.5W-XXK-IPYY

## Specification Sheet



### PHYSICAL

Product Type	Flexible LED Strip		
SMD Type	3528		
Strip Width	3/16 in	5 mm	
Strip Total Length (Roll)	16.4 ft	5 m	
LED Linear Density	54.9 LED/ft	180 LED/m	900 LED/roll total
Can be cut at every	1.31 in	33.3 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>4.4 W/ft</b>	<b>14.5 W/m</b>	<b>73 W/roll total</b>

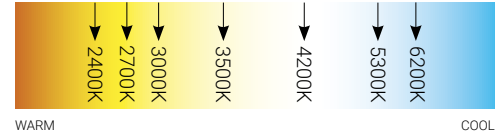


Electrical Input

Rated Power (Max.)

CONSTANT VOLTAGE	<b>24V DC</b>	<b>73 W/roll</b>
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Correlated Color Temperature (CCT)



### PRODUCT RANGE

Part Number	Code	IP	CCT*	Luminous Flux			Luminous Efficacy	CRI**	R9	duv***
B3528-24V-180-5mm-14.5W-2700K-IP22	LM00002-56	IP22	2700K	<b>294.2 lm/ft</b>	<b>965.2 lm/m</b>	<b>4826 lm/roll</b>	80.4 lm/W	92.5	66	0.0005
B3528-24V-180-5mm-14.5W-2700K-IP68	LM00002-57	IP68	(Soft White)							
B3528-24V-180-5mm-14.5W-3000K-IP22	LM21472-25	IP22	3000K	<b>266.4 lm/ft</b>	<b>874.2 lm/m</b>	<b>4371 lm/roll</b>	80.2 lm/W	92.3	69	0.0002
B3528-24V-180-5mm-14.5W-3000K-IP68	LM00002-58	IP68	(Warm White)							
B3528-24V-180-5mm-14.5W-3500K-IP22	LM21473-25	IP22	3500K	<b>274.8 lm/ft</b>	<b>901.6 lm/m</b>	<b>4508 lm/roll</b>	80.5 lm/W	95	88	0.0002
B3528-24V-180-5mm-14.5W-3500K-IP68			(Bright White)							
B3528-24V-180-5mm-14.5W-4200K-IP22	LM21474-25	IP22	4200K	<b>282.8 lm/ft</b>	<b>927.8 lm/m</b>	<b>4639 lm/roll</b>	80.5 lm/W	94	83	0.0001
B3528-24V-180-5mm-14.5W-4200K-IP68			(Neutral White)							
B3528-24V-180-5mm-14.5W-5000K-IP22	LM21476-24	IP22	5300K	<b>325.7 lm/ft</b>	<b>1068.6 lm/m</b>	<b>5343 lm/roll</b>	80.5 lm/W	93.8	72	0.0014
B3528-24V-180-5mm-14.5W-5000K-IP68			(Daylight)							
B3528-24V-180-5mm-14.5W-6000K-IP22	LM21476-25	IP22	6000K	<b>338.2 lm/ft</b>	<b>1109.6 lm/m</b>	<b>5548 lm/roll</b>	77.0 lm/W	93.8	72	0.0014
B3528-24V-180-5mm-14.5W-6000K-IP68			(Cool White)							

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

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

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# B3528-24V-180-5mm-14.5W-2700K-IP22/IP68

## Test Data for 1 Meter LED Strip Length



### Chroma Parameters

Chromaticity Coordinates:  $x=0.4514, y=0.4099, u=0.2573, v=0.3505, duv=0.0005$   
 Correlated Color Temperature: 2818K  
 Dominant Wave.: 583.5nm  
 Purity: 58.8%  
 Flux RGB Ratio: R=25.3%, G=73.2%, B=1.5%  
 Peak Wave: 628.5nm  
 Half Width: 162.2nm

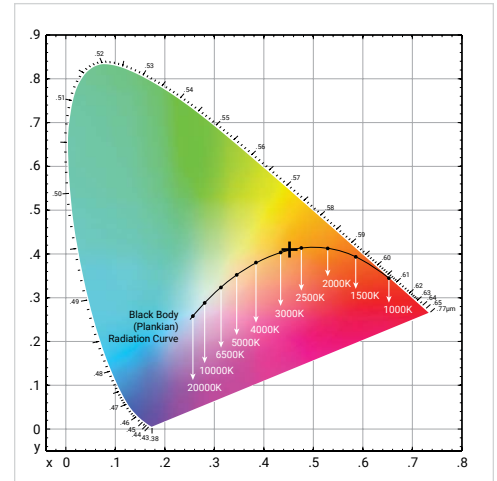
### Rendering Index: Ra=92.5

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

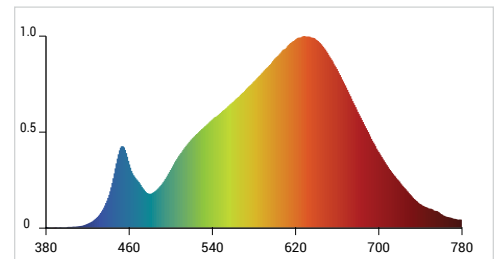
### Photo Parameters

**Luminous Flux: 946.7 lm**  
 Luminous Efficacy: 77.0 lm/W  
 Radiant Flux: 3366.5 mW  
 Iv: 0.0 mcd

C.I.E. 1931 Chromaticity Diagram



Spectral Ratio: R=25.3%, G=73.2%, B=1.5%



# B3528-24V-180-5mm-14.5W-3000K-IP22/IP68

## Test Data for 1 Meter LED Strip Length



### Chroma Parameters

Chromaticity Coordinates:  $x=0.4249, y=0.4000, u=0.2445, v=0.3453, duv=0.0002$   
 Correlated Color Temperature: 3069K  
 Dominant Wave.: 582.0nm  
 Purity: 47.6%  
 Flux RGB Ratio: R=23.1%, G=75.0%, B=1.9%  
 Peak Wave: 626.6nm  
 Half Width: 176.8nm

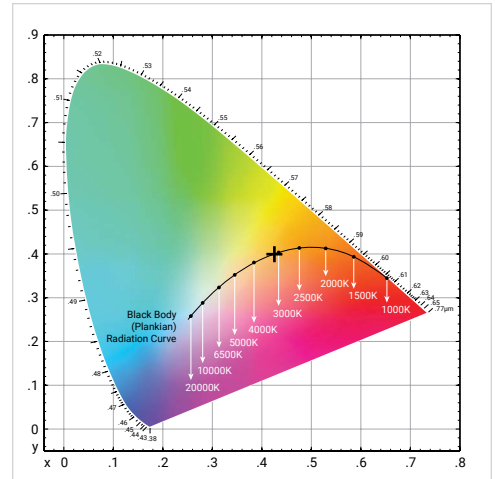
### Rendering Index: Ra=92.3

R1 = 93   R2 = 95   R3 = 95   R4 = 95   R5 = 93   R6 = 92   R7 = 93   R8 = 86  
 R9 = 69   R10=87   R11=95   R12=75   R13=93   R14=96   R15=90

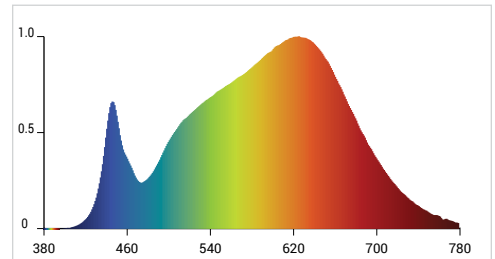
### Photo Parameters

**Luminous Flux:** 974.2 lm  
 Luminous Efficacy: 80.2 lm/W  
 Radiant Flux: 3028.5 mW  
 Iv: 0.0 mcd

C.I.E. 1931 Chromaticity Diagram



Spectral Ratio: R=49.8%, G=38.9%, B=11.4%



# B3528-24V-180-5mm-14.5W-3500K-IP22/IP68

## Test Data for 1 Meter LED Strip Length



### Chroma Parameters

Chromaticity Coordinates:  $x=0.4039, y=0.3895, u=0.2353, v=0.3404, duv=-0.0002$   
 Correlated Color Temperature: 3606K  
 Dominant Wave.: 580.9nm  
 Purity: 38.1%  
 Flux RGB Ratio: R=21.7%, G=76.1%, B=2.1%  
 Peak Wave: 637.7nm  
 Half Width: 190.9nm

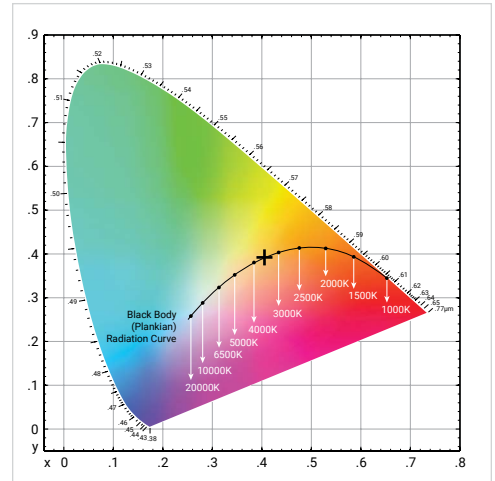
### Rendering Index: Ra=95.0

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

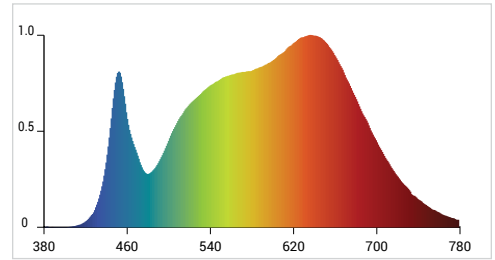
### Photo Parameters

**Luminous Flux: 982.4 lm**  
 Luminous Efficacy: 80.4 lm/W  
 Radiant Flux: 3252.8 mW  
 Iv: 0.0 mcd

C.I.E. 1931 Chromaticity Diagram



Spectral Ratio: R=48.8%, G=38.1%, B=13.1%



# B3528-24V-180-5mm-14.5W-4200K-IP22/IP68

## Test Data for 1 Meter LED Strip Length



### Chroma Parameters

Chromaticity Coordinates:  $x=0.3776, y=0.3751, u=0.2239, v=0.3336, duv=0.0001$   
 Correlated Color Temperature: 4208K  
 Dominant Wave.: 578.8nm  
 Purity: 25.9%  
 Flux RGB Ratio: R=19.6%, G=77.8%, B=2.6%  
 Peak Wave: 452.1nm  
 Half Width: 24.7nm

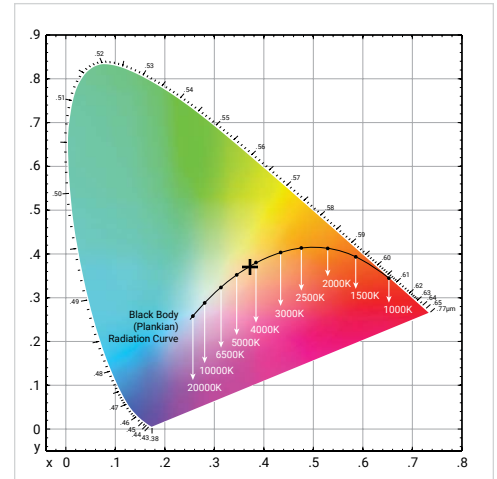
### Rendering Index: Ra=94.0

R1 = 95   R2 = 95   R3 = 93   R4 = 94   R5 = 93   R6 = 90   R7 = 98   R8 = 94  
 R9 = 83   R10=87   R11=93   R12=69   R13=95   R14=96   R15=95

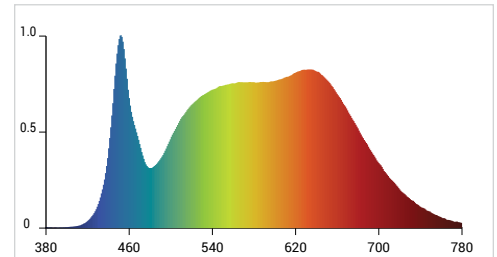
### Photo Parameters

**Luminous Flux:** 1013.5 lm  
 Luminous Efficacy: 80.5 lm/W  
 Radiant Flux: 3290.3 mW  
 Iv: 0.0 mcd

C.I.E. 1931 Chromaticity Diagram



Spectral Ratio: R=42.9%, G=40.3%, B=16.8%



# B3528-24V-180-5mm-14.5W-5300K-IP22/IP68

## Test Data for 1 Meter LED Strip Length



### Chroma Parameters

Chromaticity Coordinates:  $x=0.3402, y=0.3505, u=0.2085, v=0.3223, duv=0.0014$   
 Correlated Color Temperature: 5190K  
 Dominant Wave.: 567.7nm  
 Purity: 7.2%  
 Flux RGB Ratio: R=16.9%, G=79.1%, B=4.0%  
 Peak Wave: 453.7nm  
 Half Width: 30.9nm

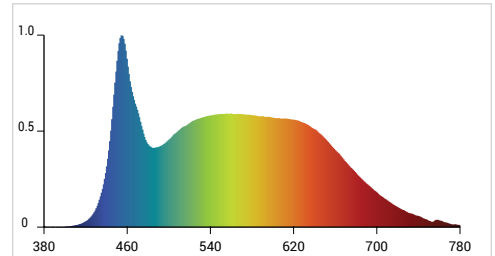
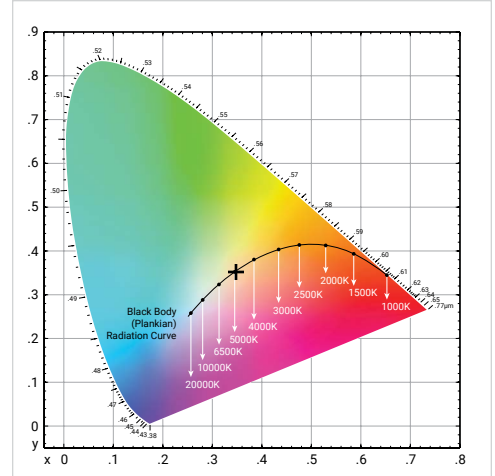
### Rendering Index: Ra=93.8

R1 = 95 R2 = 98 R3 = 98 R4 = 92 R5 = 93 R6 = 94 R7 = 94 R8 = 88  
 R9 = 72 R10=94 R11=92 R12=72 R13=96 R14=99 R15=93

### Photo Parameters

**Luminous Flux:** 1068.6 lm  
 Luminous Efficacy: 80.5 lm/W  
 Radiant Flux: 4992.7 mW  
 Iv: 0.0 mcd

C.I.E. 1931 Chromaticity Diagram



# B3528-24V-180-5mm-14.5W-6200K-IP22/IP68

## Test Data for 1 Meter LED Strip Length



### Chroma Parameters

Chromaticity Coordinates:  $x=0.3131, y=0.3261, u=0.1992, v=0.3112, duv=0.0015$   
 Correlated Color Temperature: 6506K  
 Dominant Wave.: 487.0nm  
 Purity: 7.4%  
 Flux RGB Ratio: R=15.1%, G=79.9%, B=5.0%  
 Peak Wave: 454.8nm  
 Half Width: 27.4nm

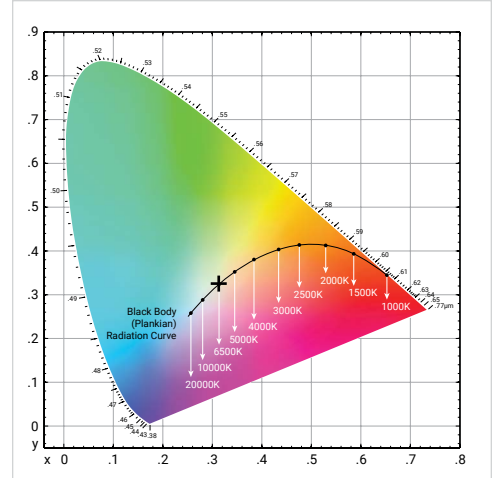
### Rendering Index: Ra=93.3

R1 = 94 R2 = 99 R3 = 97 R4 = 90 R5 = 92 R6 = 92 R7 = 93 R8 = 89  
 R9 = 77 R10=94 R11=91 R12=66 R13=97 R14=99 R15=92

### Photo Parameters

**Luminous Flux:** 1165.1 lm/m  
 Luminous Efficacy: 81.1 lm/W  
 Radiant Flux: 3919.5 mW  
 Iv: 0.0 mcd

C.I.E. 1931 Chromaticity Diagram



Spectral Ratio: R=29%, G=42.2%, B=28.9%

