

WARMDIM FEATURES

- Dim to warm, variable colour when dimmed.
- A different mood for different times of the day
- No CCT control needed.
- Cuttable every 1.97 inches (12 LEDs).
- 3M double sided tape for easy installation.
- Compatible with PWM controller (PWM is a powerful technique for controlling analog circuits with a microprocessor's digital outputs).



24V LED ENGINE - IP22 - ROLL 16.4 FT	QUANTITY	24V LED ENGINE - IP67 - ROLL 16.4 FT	QUANTITY
B2216-24V-240-10mm-14.5W-WARMDIM-2200-2900K-IP22 LM28500-03		B2216-24V-240-10mm-14.5W-WARMDIM-2200-2900-IP68 LM28500-04	
B2216-24V-240-10mm-14.5W-WARMDIM-2700-3500K-IP22 LM28500-05		B2216-24V-240-10mm-14.5W-WARMDIM-2700-3500K-IP68 LM28500-06	

CUSTOM OPTIONS:

SMD TYPE	INPUT VOLTAGE	LED DENSITY	STRIP WIDTH	RATED POWER	CCT	USAGE	LEAD IN / OUT	STRIP LENGTH
B2216 - 2.2 x 1.6mm	24V - 24 volt	240 - 240 LED/m	10mm (3/8 in.)	14.5W/m (4.4 W/ft)	 2200-2900K 2700-3500K	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.

B2216
SMD TYPE

24V
INPUT VOLTAGE

240
LED/M

10mm
WIDTH

14.5W
W/M

CCT

USAGE

IN OUT

LENGTH

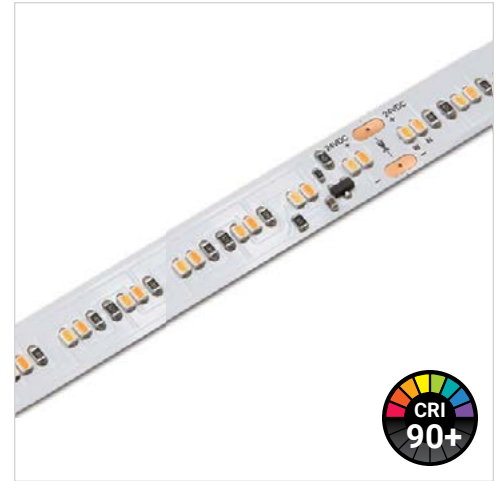
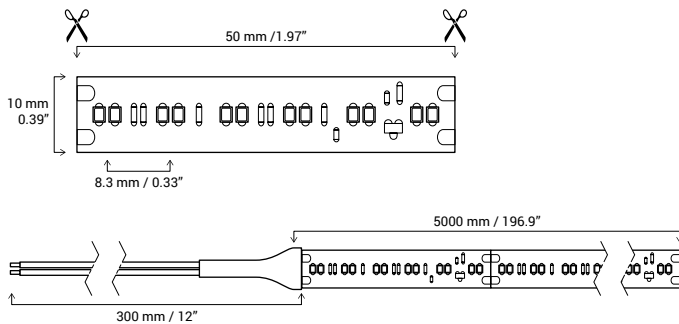
B2216-24V-240-10mm-14.5W-WARMDIM-XXX-XXXK-IPYY

Specification Sheet



PHYSICAL

Product Type	Flexible LED Strip		
SMD Type	2216		
Strip Width	3/8 in	10 mm (IP22)	
Strip Total Length (Roll)	16.4 ft	5 m	
LED Linear Density	73.15 LED/ft	240 LED/m	1200 LED/roll total
Can be cut at every	1.97 in	50 mm	12LED
Storage Temperature	-40°C to +80°C	Operating Temperature	-25°C to +60°C
Lifespan	50 000 Hrs		



Electrical Input

Rated Power (Max.)

CONSTANT
VOLTAGE**24V DC****72.5 W/roll**

ELECTRICAL

Input Type	DC, Constant Voltage		
Input Voltage	24V DC		
Rated Power (Max.)	4.4 W/ft	14.5 W/m	72.5 W/roll total

PRODUCT RANGE

Part Number	Code	IP	CCT*	Luminous Flux (max.)			Luminous Efficacy	CRI**
B2216-24V-240-10mm-14.5W-WARMDIM-2200-2900K-IP22	LM28500-03	IP22	2200-2900K (Dimmable)	191 lm/ft	627 lm/m	3137 lm/roll	8.8 - 43.24 lm/W	88-97
B2216-24V-240-10mm-14.5W-WARMDIM-2700-3500K-IP22	LM28500-05	IP22	2700-3500K (Dimmable)	202 lm/ft	662 lm/m	3309 lm/roll	49.2 - 64.4 lm/W	92-96

CCT* - Correlated Color Temperature
CRI** - Colour Rendering Index

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B2216-24V-240-10mm-14.5W-WARMDIM-2200-2900K-IPXX

Test Data for 1 Meter LED Strip Length (Fully Lit)



Chroma Parameters

Chromaticity Coordinates: $x=0.4403, y=0.3904, u=0.2589, v=0.3442, duv=-0.0059$
 Correlated Color Temperature: 2830K
 Dominant Wave.: 585.9nm
 Purity: 49.3%
 Flux RGB Ratio: R=26.4%, G=71.8%, B=1.8%
 Peak Wave: 631.6nm
 Half Width: 154.9nm

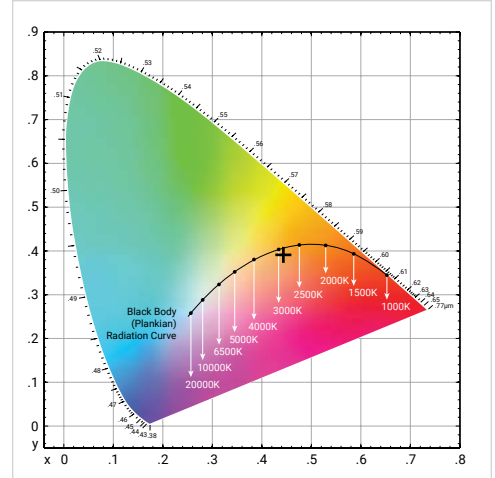
Rendering Index: Ra=96.6

R1 = 99 R2 = 97 R3 = 98 R4 = 95 R5 = 98 R6 = 97 R7 = 96 R8 = 94
 R9 = 86 R10=97 R11=95 R12=86 R13=98 R14=99 R15=99

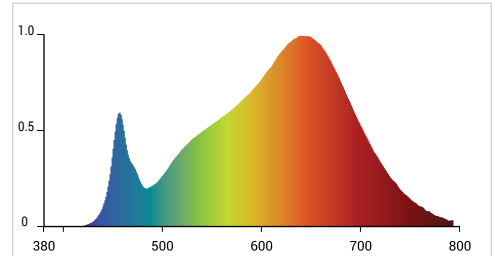
Photo Parameters

Luminous Flux: 627.33 lm
 Luminous Efficacy: 43.24 lm/W
 Radiant Flux: 2093.1mW
 Iv: 0.0 mcd

C.I.E. 1931 Chromaticity Diagram



Spectral Ratio: R=55.4%, G=34.4%, B=10.2%



B2216-24V-240-10mm-14.5W-WARMDIM-2200-2900K-IPXX

Test Data for 1 Meter LED Strip Length (Max. Dimmed)



Chroma Parameters

Chromaticity Coordinates: $x=0.5002, y=0.4233, u=0.2826, v=0.3588, duv=0.0025$
 Correlated Color Temperature: 2308K
 Dominant Wave.: 585.7nm
 Purity: 77.2%
 Flux RGB Ratio: R=29.7%, G=69.5%, B=0.8%
 Peak Wave: 628.5nm
 Half Width: 119.2nm

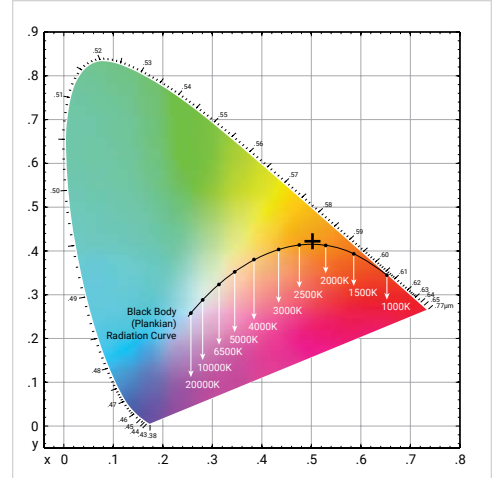
Rendering Index: Ra=88.4

R1 = 90 R2 = 94 R3 = 98 R4 = 89 R5 = 87 R6 = 92 R7 = 92 R8 = 77
 R9 = 50 R10=85 R11=90 R12=78 R13=91 R14=98 R15=85

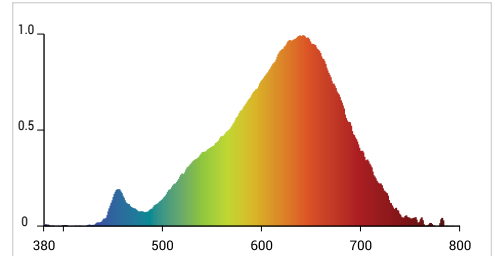
Photo Parameters

Luminous Flux: 23.66 lm
 Luminous Efficacy: 8.8 lm/W
 Radiant Flux: 84.2mW
 Iv: 0.0 mcd

C.I.E. 1931 Chromaticity Diagram



Spectral Ratio: R=59.9%, G=35.7%, B=4.5%



B2216-24V-240-10mm-14.5W-WARMDIM-2700-3500K-IPXX

Test Data for 1 Meter LED Strip Length (Fully Lit)



Chroma Parameters

Chromaticity Coordinates: $x=0.4045, y=0.3818, u=0.2389, v=0.3382, duv=-0.0038$
 Correlated Color Temperature: 3442K
 Dominant Wave.: 582.9nm
 Purity: 36.0%
 Flux RGB Ratio: R=22.5%, G=75.2%, B=2.3%
 Peak Wave: 626.6nm
 Half Width: 183.3nm

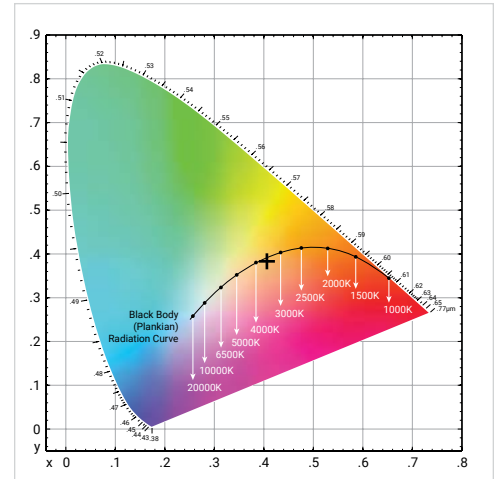
Rendering Index: Ra=95.8

R1 = 97 R2 = 98 R3 = 96 R4 = 95 R5 = 96 R6 = 96 R7 = 97 R8 = 93
 R9 = 84 R10=94 R11=94 R12=77 R13=98 R14=97 R15=98

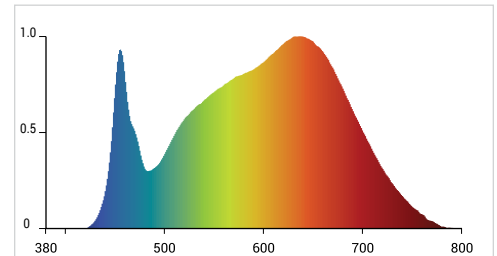
Photo Parameters

Luminous Flux: 661.71 lm
 Luminous Efficacy: 49.2 lm/W
 Radiant Flux: 7169.8mW
 Iv: 0.0 mcd

C.I.E. 1931 Chromaticity Diagram



Spectral Ratio: R=47.5%, G=38.6%, B=13.9%



B2216-24V-240-10mm-14.5W-WARMDIM-2700-3500K-IPXX

Test Data for 1 Meter LED Strip Length (Max. Dimmed)



Chroma Parameters

Chromaticity Coordinates: $x=0.4610, y=0.4130, u=0.2622, v=0.3523, duv=0.0008$
 Correlated Color Temperature: 2702K
 Dominant Wave.: 583.9nm
 Purity: 62.4%
 Flux RGB Ratio: R=26.2%, G=72.5%, B=1.3%
 Peak Wave: 628.5nm
 Half Width: 148.6nm

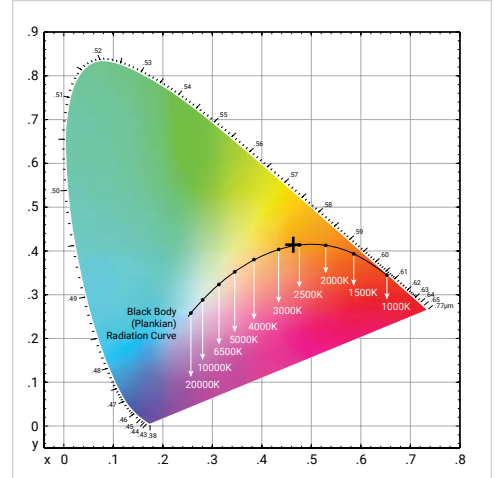
Rendering Index: Ra=91.9

R1 = 92 R2 = 95 R3 = 95 R4 = 93 R5 = 92 R6 = 95 R7 = 93 R8 = 83
 R9 = 63 R10=86 R11=92 R12=77 R13=92 R14=96 R15=89

Photo Parameters

Luminous Flux: 203.16 lm
 Luminous Efficacy: 64.4 lm/W
 Radiant Flux: 2020.1mW
 Iv: 0.0 mcd

C.I.E. 1931 Chromaticity Diagram



Spectral Ratio: R=55.0%, G=37.4%, B=7.6%

