

HOS2835-24V-240-10mm-23W-XXK-IPYY

Specification Sheet

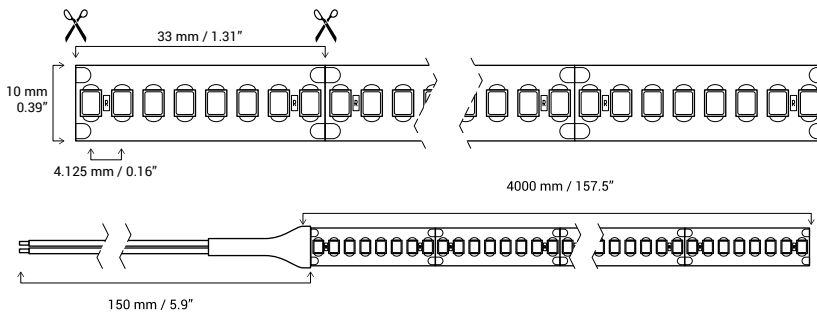


CONFORMS TO UL STD. 2108 & 8750

CERTIFIED TO CSA STD. C22.2 NO. 250.0-08 & C22.2 NO. 9.0

PHYSICAL

Product Type	Flexible LED Strip		
SMD Type	2835		
Strip Width	2/5 in	10 mm (IP22)	12 mm (IP68)
Strip Total Length (Roll)	13.12 ft	4 m	
LED Linear Density	72 LED/ft	240 LED/m	1200 LED/roll total
Can be cut at every	1.31 in	33 mm	8 LED
Storage / Operating Temp.	-40°C to +80°C	-25°C to +40°C	
Lifespan	50 000 Hrs		



ELECTRICAL

Input Type	DC, Constant Voltage		
Input Voltage	24V DC		
Rated Power (Max.)	7 W/ft	23 W/m	92 W/roll total



Electrical Input

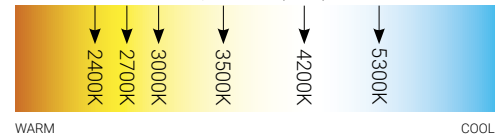
Rated Power (Max.)

CONSTANT VOLTAGE

24V DC

92 W/roll

Correlated Color Temperature (CCT)



PRODUCT RANGE

Part Number	Code	IP	CCT*		Luminous Flux		Luminous Efficacy	CRI**	R9	duv***
HOS2835-24V-240-10mm-23W-2400K-IP22	LM21423-01	IP22	2400K (Soft White)	568.6 lm/ft	1865.4 lm/m	7462 lm/roll	88.4 lm/W	97	89	0.0028
HOS2835-24V-240-10mm-23W-2700K-IP22	LM21423-02	IP22	2700K (Soft White)	634.8 lm/ft	2082.6 lm/m	8330 lm/roll	96.4 lm/W	98	94	0.0006
HOS2835-24V-240-10mm-23W-3000K-IP22	LM21423-03	IP22	3000K (Warm White)	629.0 lm/ft	2063.8 lm/m	8255 lm/roll	103.7 lm/W	98	97	-0.0002
HOS2835-24V-240-10mm-23W-3500K-IP22	LM21423-04	IP22	3500K (Bright White)	-	-	-	-	-	-	-
HOS2835-24V-240-10mm-23W-4200K-IP22	LM21423-05	IP22	4200K (Neutral White)	667.5 lm/ft	2189.9 lm/m	8760 lm/roll	100.4 lm/W	96	81	-0.0034
HOS2835-24V-240-10mm-23W-5300K-IP22	LM21423-06	IP22	5300K (Daylight)	761.4 lm/ft	2498.1 lm/m	9992 lm/roll	113.1 lm/W	97	88	0.0013

CCT* - Correlated Color Temperature

CRI** - Colour Rendering Index

duv*** - Black-body Curve Deviation

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HOS2835-24V-240-10mm-23W-2400K-IP22/IP68

Test Data for 1 Meter LED Strip Length



CONFORMS TO UL STD. 2108 & 8750
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Chroma Parameters

Chromaticity Coordinates: $x=0.4953, y=0.4238, u=0.2793, v=0.3584, duv=0.0028$
 Correlated Color Temperature: 2363K
 Dominant Wave.: 585.3nm
 Purity: 75.9%
 Flux RGB Ratio: R=30.1%, G=69.0%, B=0.9%
 Peak Wave: 640.7nm
 Half Width: 129.4nm

Rendering Index: Ra=97.1

R1=100 R2 = 98 R3 = 94 R4 = 99 R5 = 98 R6 = 98 R7 = 99 R8 = 97
 R9 = 89 R10=94 R11=97 R12=89 R13=99 R14=95 R15=97

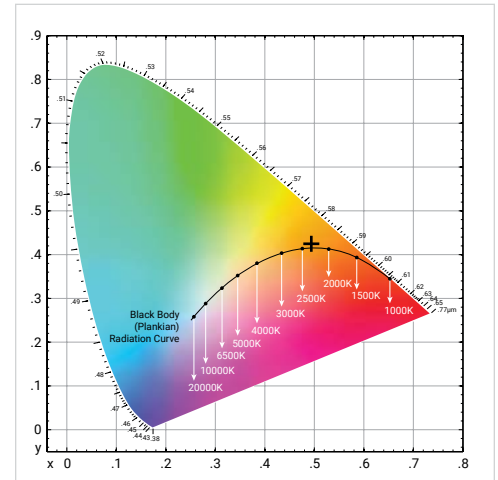
Photo Parameters

Luminous Flux: 1865.39 lm
 Luminous Efficacy: 88.4 lm/W
 Radiant Flux: 8920.2 mW
 Iv: 0.0 mcd

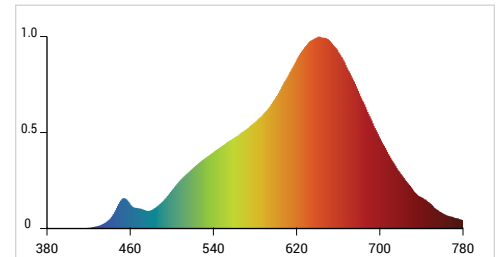
Electrical Parameters

Voltage: U=24.000V
 Current: I=0.88A
 Power: P=21.1W
 Power Factor: PF=1.000

C.I.E. 1931 Chromaticity Diagram



Spectral Ratio: R=30.1%, G=69.0%, B=0.9%



HOS2835-24V-240-10mm-23W-2700K-IP22/IP68

Test Data for 1 Meter LED Strip Length



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Chroma Parameters

Chromaticity Coordinates: $x=0.4520, y=0.4102, u=0.2576, v=0.3507, duv=0.0006$
 Correlated Color Temperature: 2810K
 Dominant Wave.: 583.5nm
 Purity: 58.8%
 Flux RGB Ratio: R=26.1%, G=72.3%, B=1.5%
 Peak Wave: 638.7nm
 Half Width: 161.9nm

Rendering Index: Ra=97.6

R1=100 R2 = 98 R3 = 95 R4 = 99 R5 = 99 R6 = 97 R7 = 99 R8 = 98
 R9 = 94 R10=94 R11=97 R12=85 R13=99 R14=96 R15=99

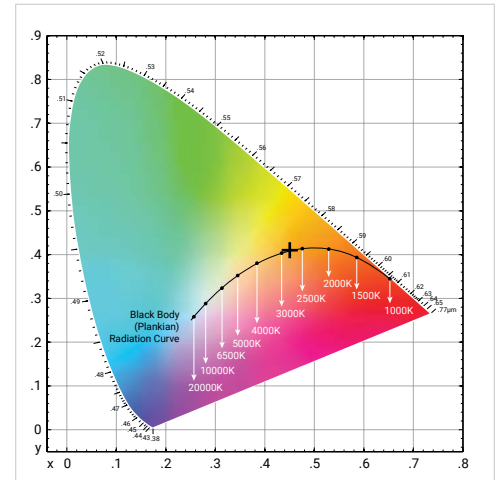
Photo Parameters

Luminous Flux: 2082.62 lm
 Luminous Efficacy: 96.4 lm/W
 Radiant Flux: 9831.0 mW
 Iv: 0.0 mcd

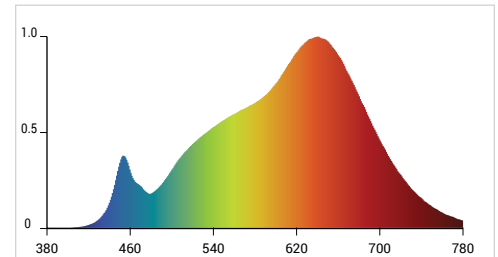
Electrical Parameters

Voltage: U=24.000V
 Current: I=0.90A
 Power: P=21.6W
 Power Factor: PF=1.000

C.I.E. 1931 Chromaticity Diagram



Spectral Ratio: R=26.1%, G=72.3%, B=1.5%



HOS2835-24V-240-10mm-23W-3000K-IP22/IP68

Test Data for 1 Meter LED Strip Length



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Chroma Parameters

Chromaticity Coordinates: $x=0.4227, y=0.3983, u=0.2438, v=0.3446, duv=-0.0002$
 Correlated Color Temperature: 3208K
 Dominant Wave.: 582.0nm
 Purity: 46.4%
 Flux RGB Ratio: R=23.7%, G=74.4%, B=1.9%
 Peak Wave: 640.7nm
 Half Width: 184.7nm

Rendering Index: Ra=98.2

R1=100 R2 = 98 R3 = 95 R4 = 98 R5 = 99 R6 = 96 R7 = 97 R8 = 98
 R9 = 97 R10=95 R11=96 R12=86 R13=99 R14=96 R15=99

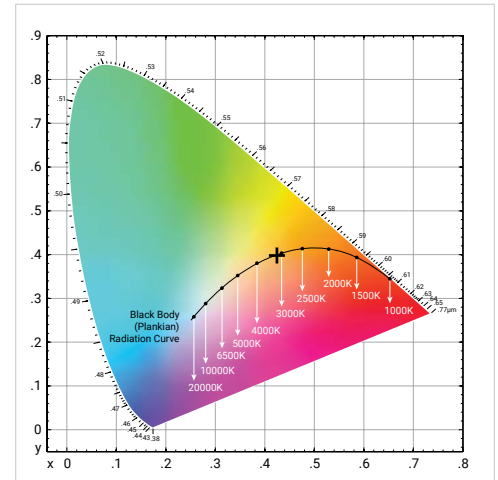
Photo Parameters

Luminous Flux: 2063.82 lm
 Luminous Efficacy: 103.7 lm/W
 Radiant Flux: 9483.2 mW
 Iv: 0.0 mcd

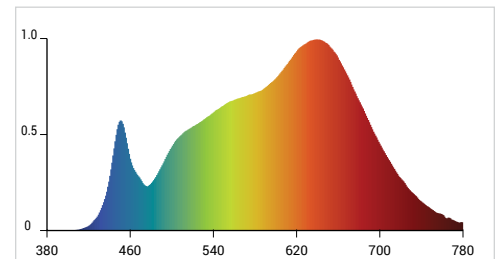
Electrical Parameters

Voltage: U=24.000V
 Current: I=0.83A
 Power: P=19.9W
 Power Factor: PF=1.000

C.I.E. 1931 Chromaticity Diagram



Spectral Ratio: R=23.7%, G=74.4%, B=1.9%



HOS2835-24V-240-10mm-23W-3500K-IP22/IP68

Test Data for 1 Meter LED Strip Length



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Coming Soon

HOS2835-24V-240-10mm-23W-4200K-IP22/IP68

Test Data for 1 Meter LED Strip Length



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Chroma Parameters

Chromaticity Coordinates: $x=0.3663, y=0.3606, u=0.2222, v=0.3281, duv=-0.0034$
 Correlated Color Temperature: 4303K
 Dominant Wave.: 580.4nm
 Purity: 18.1%
 Flux RGB Ratio: R=20.2%, G=76.3%, B=3.5%
 Peak Wave: 453.7nm
 Half Width: 28.2nm

Rendering Index: Ra=95.8

R1 = 95 R2 = 97 R3 = 97 R4 = 98 R5 = 96 R6 = 96 R7 = 97 R8 = 92
 R9 = 81 R10=97 R11=98 R12=73 R13=96 R14=97 R15=92

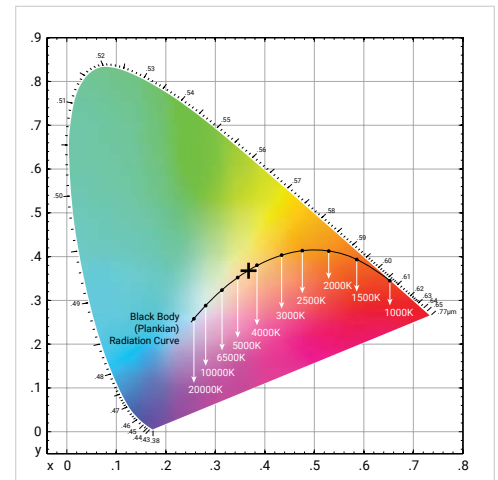
Photo Parameters

Luminous Flux: 2189.88 lm
 Luminous Efficacy: 100.4 lm/W
 Radiant Flux: 9884.7 mW
 Iv: 0.0 mcd

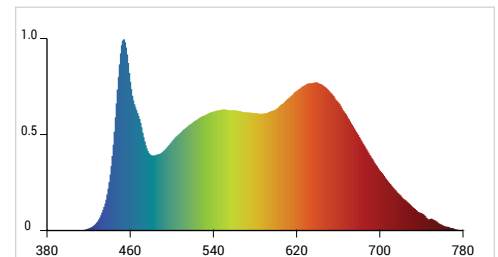
Electrical Parameters

Voltage: U=24.000V
 Current: I=0.91A
 Power: P=21.8W
 Power Factor: PF=1.000

C.I.E. 1931 Chromaticity Diagram



Spectral Ratio: R=20.2%, G=76.3%, B=3.5%



HOS2835-24V-240-10mm-23W-5300K-IP22/IP68

Test Data for 1 Meter LED Strip Length



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Chroma Parameters

Chromaticity Coordinates: $x=0.3407, y=0.3506, u=0.2089, v=0.3223, duv=0.0013$
 Correlated Color Temperature: 5168K
 Dominant Wave.: 568.4nm
 Purity: 7.4%
 Flux RGB Ratio: R=17.3%, G=78.9%, B=3.8%
 Peak Wave: 452.7nm
 Half Width: 26.8nm

Rendering Index: Ra=96.6

R1 = 98 R2 = 99 R3 = 98 R4 = 96 R5 = 96 R6 = 95 R7 = 97 R8 = 95
 R9 = 88 R10=96 R11=96 R12=77 R13=99 R14=99 R15=97

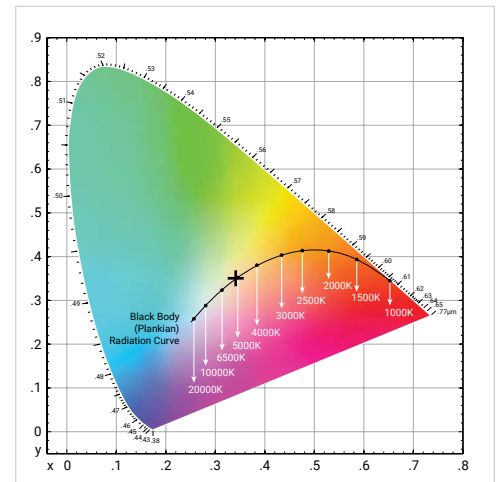
Photo Parameters

Luminous Flux: 2498.1 lm
 Luminous Efficacy: 113.1 lm/W
 Radiant Flux: 10826.2 mW
 Iv: 0.0 mcd

Electrical Parameters

Voltage: U=24.000V
 Current: I=0.92A
 Power: P=22.1W
 Power Factor: PF=1.000

C.I.E. 1931 Chromaticity Diagram



Spectral Ratio: R=17.3%, G=78.9%, B=3.8%

