



ErP LED STRIP SPECIFICATION

24V 14.4W CRI90 2835 160LED/M IP52/67 F

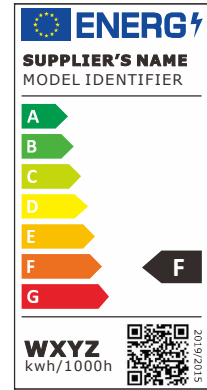
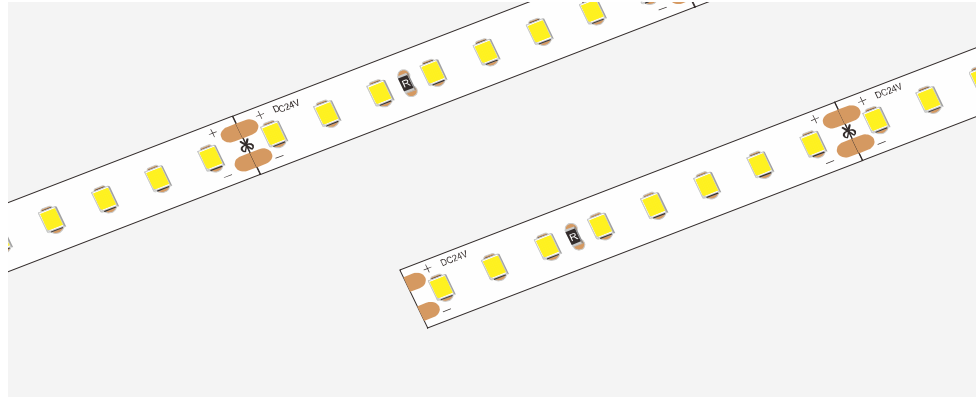


Note: LEDYI may change product specifications and installation guidance without prior notice.

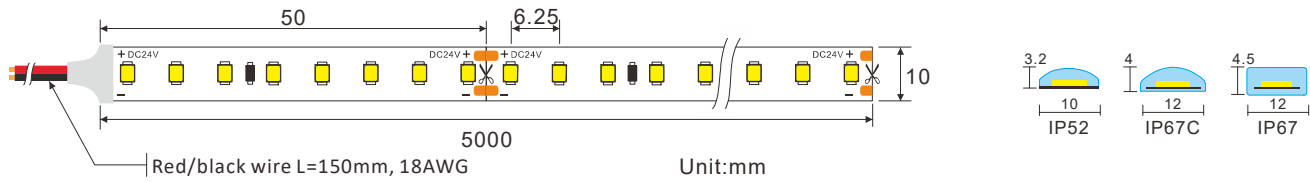
24V 14.4W CRI90 2835 160LED/M IP52/67 F



Part Number: LY160-S2835W27-W24-14.4W-Ra90-IP52-ErP
 W27/W30/W40/W65 IP67C/IP67



Dimensions & Waterproof



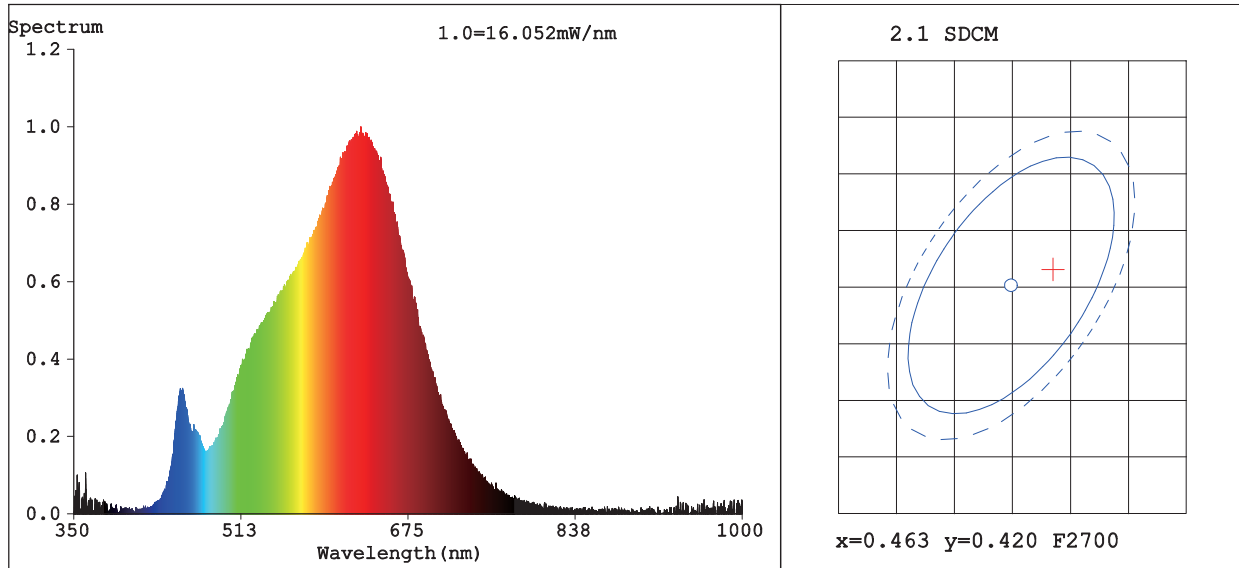
Product Specification

Max.Length	5000mm	Voltage(V)	DC24V
Chip Type	2835SMD	Power(W/m)	14.4W
Chip Density	160LEDs/m	Power(W/0.5m)	7.2W
Step Length	50mm/8LEDs	Beam Angle	120°
MacAdam Ellipse	<6	Operation Temperature	-20°C~50°C
Survival Factor LED	0.9	Lumen Maintenance Factor	0.96

Product Photometrics

CCT	CRI	LM/0.5M	LM/M	LM/W	Energy Efficiency Class	IP Grade
2700K	90	698.40	1396.80	97	F	52/67C/67
3000K	90	705.60	1411.20	98	F	52/67C/67
4000K	90	784.80	1602.30	109	F	52/67C/67
6500K	90	813.60	1627.20	113	F	52/67C/67

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.4666$ $y=0.4214$ $u'=0.2620$ $v'=0.5324$
 CCT=2691K(Duv=0.0034) Dominant WL:Ld =583.2nm WL:Lc = --nm Purity=66.6%
 Ratio:R=26.4% G=71.4% B=2.2% Peak WL:Lp=629.1nm FWHM=149.2nm
 Render Index:Ra=93.2 TM30:Rf=92 Rg=97

R1 =93	R2 =95	R3 =96	R4 =94	R5 =92	R6 =95	R7 =95	
R8 =85	R9 =66	R10=88	R11=95	R12=78	R13=94	R14=97	R15=89

Photo Parameters:

Flux = 712.2 lm Eff. : 97.62 lm/W Fe = 2.573 W

Electrical parameters:

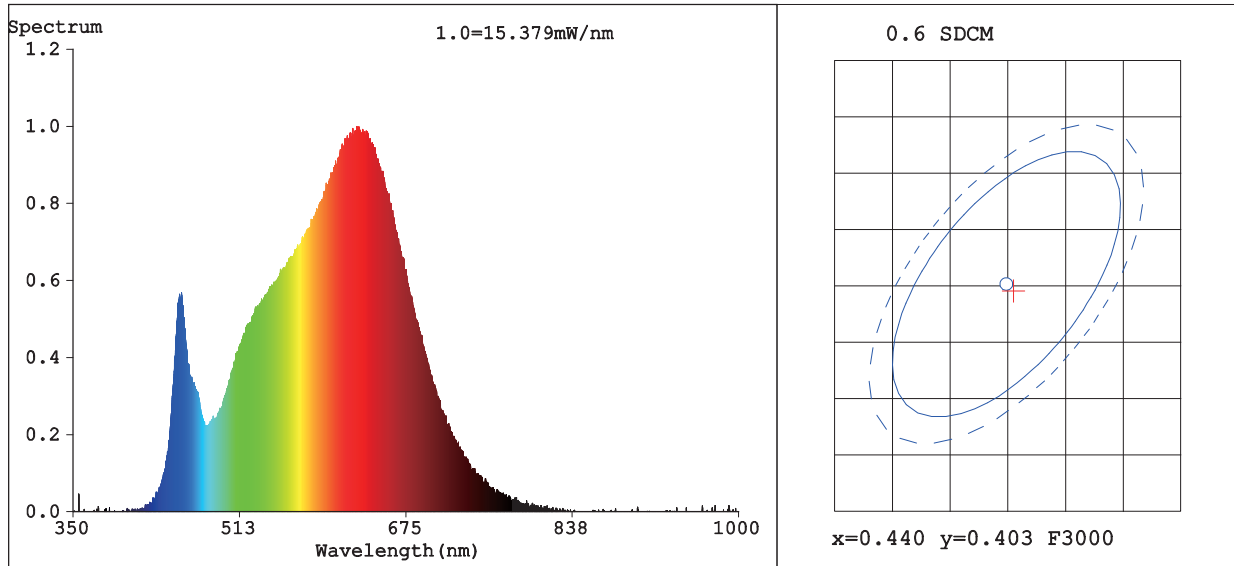
V = 23.998 V I = 0.3040 A P = 7.295 W PF = 1.000
 LEVEL:OUT WHITE:ANSI_2700K

Status: Integral T = 100 ms Ip = 1022 (2%)

Model: 160D 2835
 Tester:
 Temperature:Deg
 Manufacturer:

Number:2700K
 Date:2022-04-13 13:41:39
 Humidity:%
 Remarks:0.5M

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: x=0.4406 y=0.4024/u'=0.2537 v'=0.5213

CCT=2926K(Duv=-0.0011) Dominant WL:Ld =583.5nm WL:Lc = --nm Purity=53.0%

Ratio:R=25.2% G=72.0% B=2.8% Peak WL:Lp=627.4nm FWHM=160.4nm

Render Index:Ra=95.3 TM30:Rf=93 Rg=101

R1 =97	R2 =98	R3 =98	R4 =95	R5 =95	R6 =96	R7 =94	
R8 =89	R9 =75	R10=94	R11=96	R12=79	R13=97	R14=98	R15=94

Photo Parameters:

Flux = 723.5 lm Eff. : 98.68 lm/W Fe = 2.602 W

Electrical parameters:

V = 23.999 V I = 0.3055 A P = 7.332 W PF = 1.000

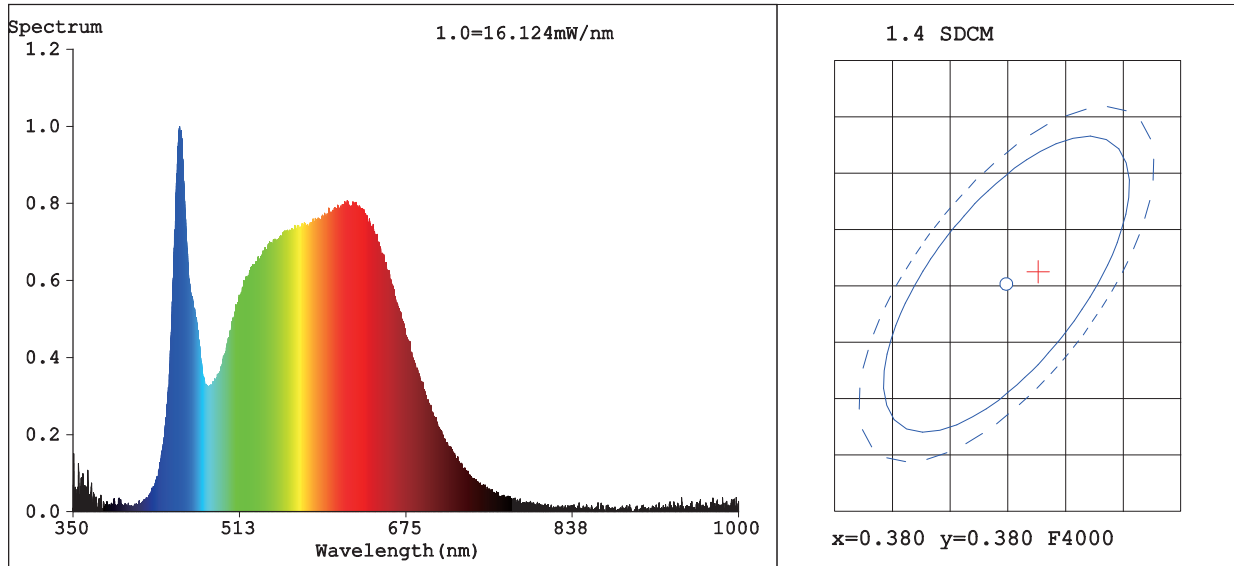
LEVEL:OUT WHITE:ANSI_3000K

Status: Integral T = 100 ms Ip = 996 (2%)

Model:160D 2835
 Tester:
 Temperature:Deg
 Manufacturer:

Number:3000K
 Date:2022-04-13 13:40:29
 Humidity:%
 Remarks:0.5M

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3827$ $y=0.3811$ $u'=0.2249$ $v'=0.5038$
 CCT=3971K(Duv=0.0014) Dominant WL:Ld =578.5nm WL:Lc = --nm Purity=29.2%
 Ratio:R=19.7% G=76.2% B=4.1% Peak WL:Lp=454.1nm FWHM=23.9nm
 Render Index:Ra=92.5 TM30:Rf=91 Rg=98

R1 =93	R2 =95	R3 =96	R4 =91	R5 =91	R6 =92	R7 =95	
R8 =87	R9 =69	R10=87	R11=91	R12=66	R13=94	R14=97	R15=91

Photo Parameters:

Flux = 802.4 lm Eff. : 109.87 lm/W Fe = 2.781 W

Electrical parameters:

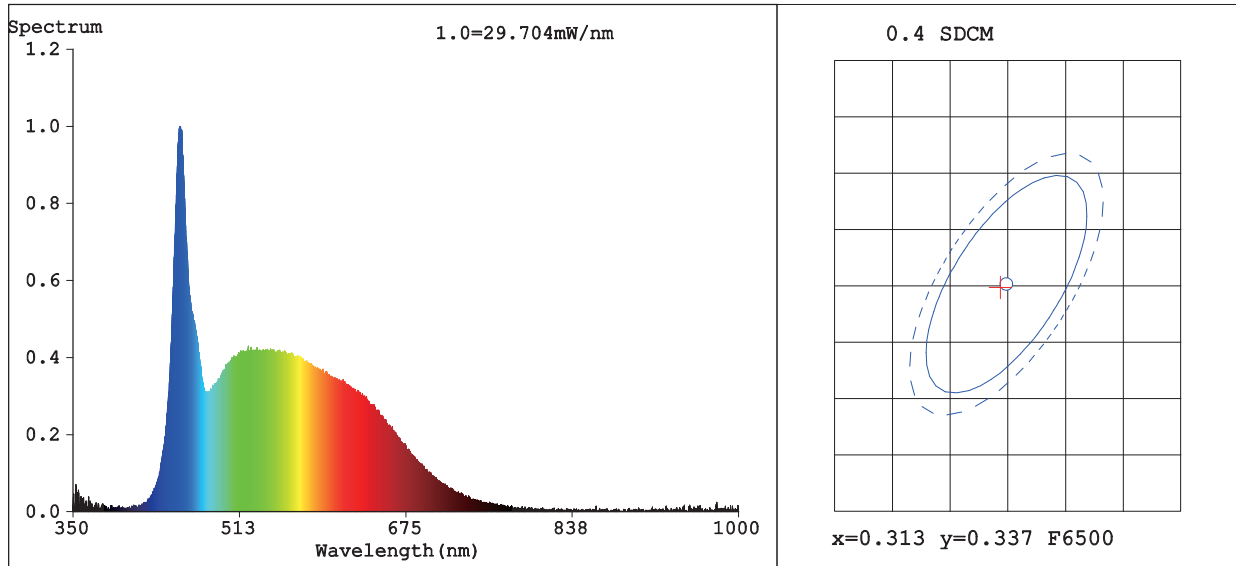
V = 23.999 V I = 0.3043 A P = 7.303 W PF = 1.000
 LEVEL:OUT WHITE:ANSI_4000K

Status: Integral T = 100 ms Ip = 888 (1%)

Model: 160S 2835
 Tester:
 Temperature:Deg
 Manufacturer:

Number:4000K
 Date:2022-04-13 13:42:31
 Humidity:%
 Remarks:0.5M

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3125$ $y=0.3367$ $u'=0.1948$ $v'=0.4724$
 CCT=6462K(Duv=0.0072) Dominant WL:Ld =493.8nm WL:Lc = --nm Purity=6.8%
 Ratio:R=14.4% G=78.8% B=6.9% Peak WL:Lp=454.5nm FWHM=21.0nm
 Render Index:Ra=90.9 TM30:Rf=89 Rg=95

R1 =91	R2 =96	R3 =97	R4 =87	R5 =89	R6 =93	R7 =91	
R8 =83	R9 =58	R10=91	R11=88	R12=64	R13=93	R14=99	R15=87

Photo Parameters:

Flux = 834.7 lm Eff. : 113.77 lm/W Fe = 2.934 W

Electrical parameters:

V = 23.999 V I = 0.3057 A P = 7.336 W PF = 1.000
 LEVEL:OUT WHITE:ANSI_6500K

Status: Integral T = 100 ms Ip = 1471 (2%)

Model: 160D 2835
 Tester:
 Temperature:Deg
 Manufacturer:

Number:6500K
 Date:2022-04-13 13:43:31
 Humidity:%
 Remarks:0.5M