ErP LED STRIP SPECIFICATION

24V 9.6W CRI90 2835 160LED/M IP52/67 F

5000906

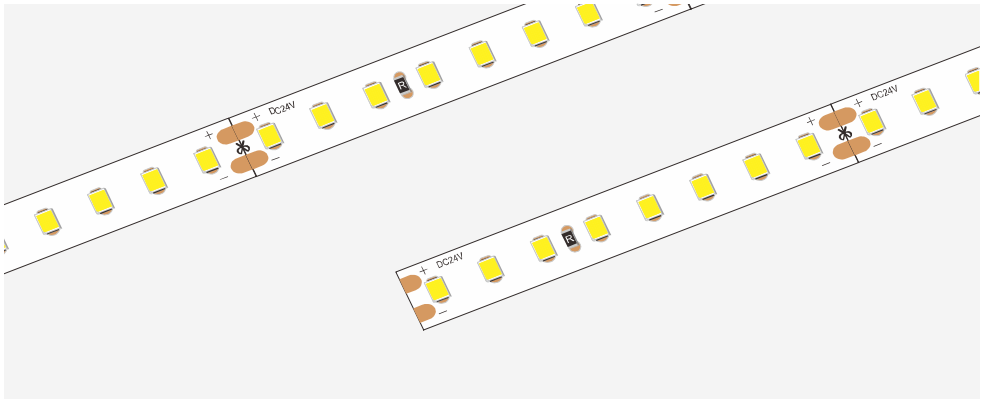
Note: LEDYI may change product specifications and installation guidance without prior notice.

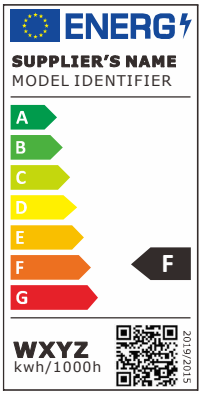
24V 9.6W CRI90 2835 160LED/M IP52/67 F

Part Number: LY160-S2835W27-W24-9.6W-Ra90-IP52-ErP

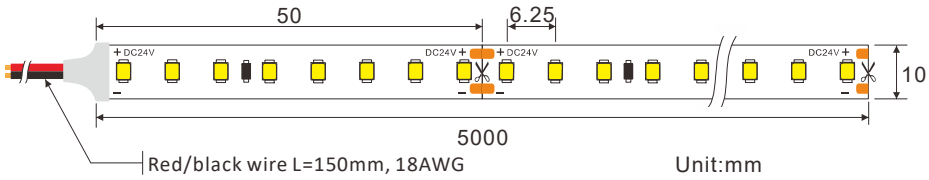
W27/W30/W40/W65

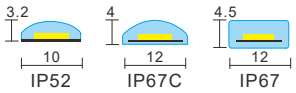
IP67C/IP67





Dimensions & Waterproof





Product Specification

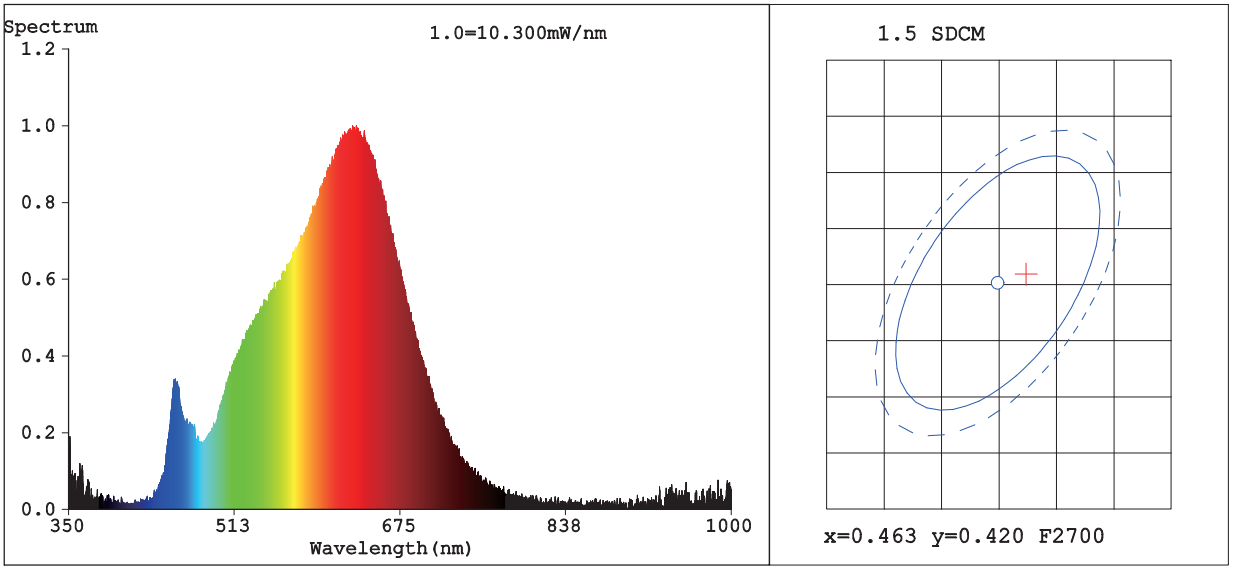
Max.Length	5000mm
Chip Type	2835SMD
Chip Density	160LEDs/m
Step Length	50mm/8LEDs
MacAdam Ellipse	<6
Survival Factor LED	0.9

Voltage(V)	DC24V
Power(W/m)	9.6W
Power(W/0.5m)	4.8W
Beam Angle	120°
Operation Temperature	-20°C~50°C
Lumen Maintenance Factor	0.96

Product Photometrics

CCT	CRI	LM/0.5M	LM/M	LM/W	Energy Efficiency Class	IP Grade
2700K	90	480.00	960.00	100	F	52/67C/67
3000K	90	484.80	969.60	101	F	52/67C/67
4000K	90	537.60	1075.20	112	F	52/67C/67
6500K	90	561.60	1123.20	117	F	52/67C/67

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate:x=0.4655 y=0.4208/u'=0.2616 v'=0.5320

CCT=2701K(Duv=0.0032) Dominant WL:Ld =583.2nm WL:Lc = --nm Purity=66.0%

Ratio:R=26.3% G=71.5% B=2.2% Peak WL:Lp=628.7nm FWHM=153.1nm

Render Index:Ra=93.5 TM30:Rf=92 Rg=97

R1 =94	R2 =96	R3 =96	R4 =94	R5 =93	R6 =95	R7 =95	
R8 =86	R9 =66	R10=89	R11=95	R12=79	R13=94	R14=97	R15=90

Photo Parameters:

Flux = 460.7 lm Eff. : 100.20 lm/W Fe = 1.691 W

Electrical parameters:

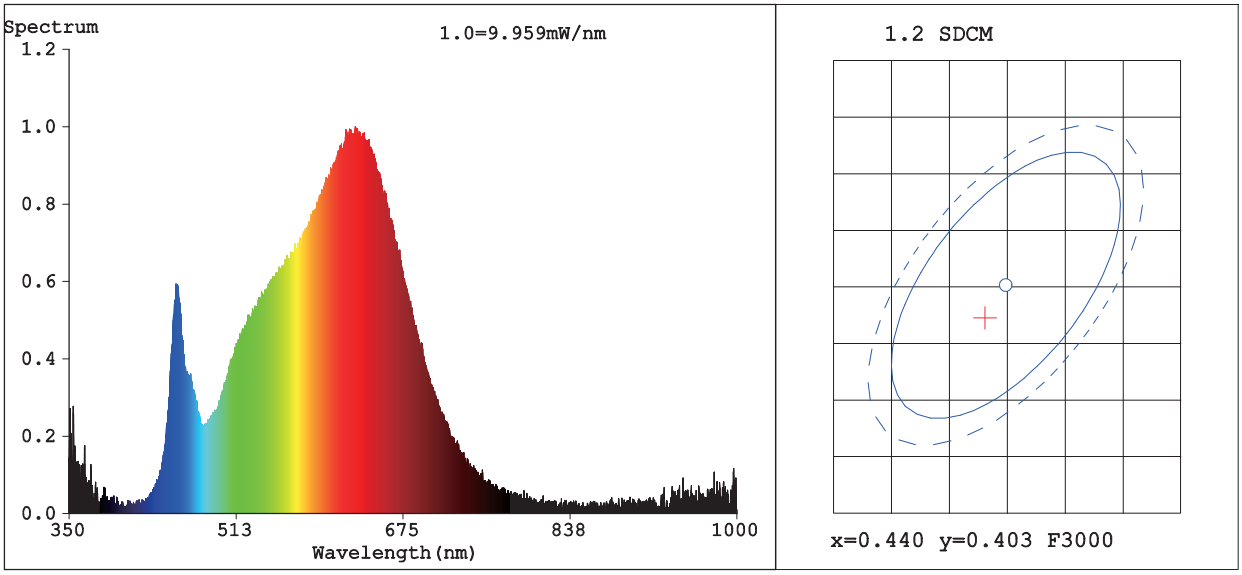
V = 23.999 V I = 0.1916 A P = 4.598 W PF = 1.000

LEVEL:OUT WHITE:ANSI_2700K

Status: Integral T = 100 ms Ip = 664 (1%)

Model：160D 2835	Number:2700K
Tester:	Date:2022-04-13 13:36:35
Temperature:Deg	Humidity:%
Manufacturer:	Remarks:0.5M

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate:x=0.4382 y=0.4001/u'=0.2531 v'=0.5200

CCT=2947K(Duv=-0.0018) Dominant WL:Ld =583.7nm WL:Lc = --nm Purity=51.6%

Ratio:R=25.1% G=72.0% B=2.9% Peak WL:Lp=628.7nm FWHM=162.2nm

Render Index:Ra=95.5 TM30:Rf=93 Rg=101

R1 =97	R2 =98	R3 =98	R4 =96	R5 =96	R6 =97	R7 =94	
R8 =89	R9 =76	R10=94	R11=96	R12=81	R13=98	R14=98	R15=94

Photo Parameters:

Flux = 468.0 lm Eff. : 101.58 lm/W Fe = 1.769 W

Electrical parameters:

V = 23.999 V I = 0.1920 A P = 4.608 W PF = 1.000

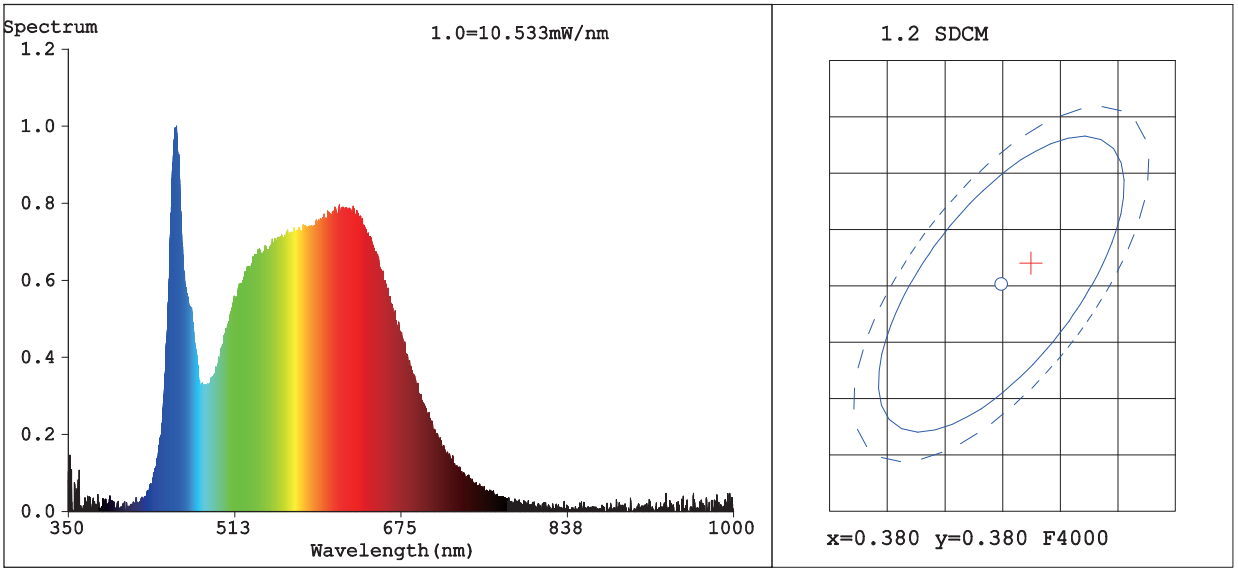
LEVEL:OUT WHITE:ANSI_3000K

Status: Integral T = 100 ms Ip = 648 (1%)

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

Number:3000K
Date:2022-04-13 13:35:33
Humidity:%
Remarks:0.5M

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate:x=0.3826 y=0.3819/u'=0.2245 v'=0.5041

CCT=3981K(Duv=0.0018) Dominant WL:Ld =578.2nm WL:Lc = --nm Purity=29.4%

Ratio:R=19.6% G=76.2% B=4.1% Peak WL:Lp=455.8nm FWHM=24.5nm

Render Index:Ra=92.5 TM30:Rf=90 Rg=98

R1 =93	R2 =96	R3 =96	R4 =91	R5 =91	R6 =92	R7 =95	
R8 =87	R9 =69	R10=88	R11=90	R12=65	R13=94	R14=97	R15=91

Photo Parameters:

Flux = 514.7 lm Eff. : 112.41 lm/W Fe = 1.776 W

Electrical parameters:

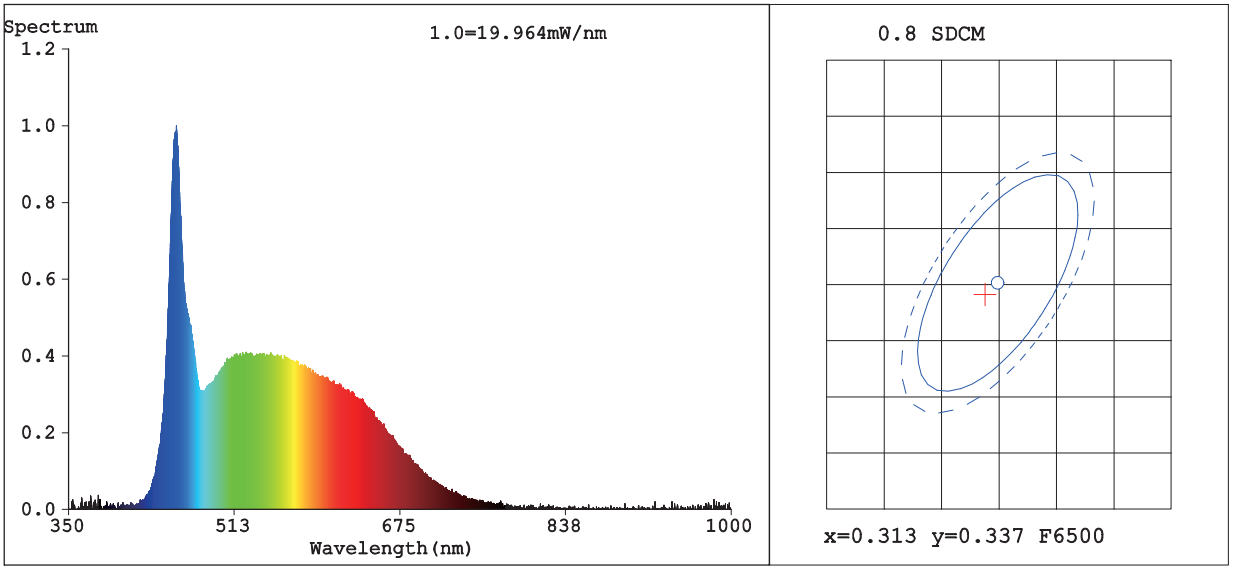
V = 23.998 V I = 0.1908 A P = 4.579 W PF = 1.000

LEVEL:OUT WHITE:ANSI_4000K

Status: Integral T = 100 ms Ip = 572 (1%)

Model：160D 2835	Number:4000K
Tester:	Date:2022-04-13 13:37:30
Temperature:Deg	Humidity:%
Manufacturer:	Remarks:0.5M

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate:x=0.3118 y=0.3360/u'=0.1947 v'=0.4719

CCT=6498K(Duv=0.0072) Dominant WL:Ld =493.3nm WL:Lc = --nm Purity=7.1%

Ratio:R=14.4% G=78.6% B=7.0% Peak WL:Lp=455.8nm FWHM=20.7nm

Render Index:Ra=91.1 TM30:Rf=89 Rg=95

R1 =91	R2 =97	R3 =97	R4 =86	R5 =89	R6 =94	R7 =90	
R8 =84	R9 =60	R10=93	R11=88	R12=64	R13=94	R14=98	R15=88

Photo Parameters:

Flux = 540.8 lm Eff. : 117.12 lm/W Fe = 1.899 W

Electrical parameters:

V = 23.999 V I = 0.1924 A P = 4.617 W PF = 1.000

LEVEL:OUT WHITE:ANSI_6500K

Status: Integral T = 100 ms Ip = 998 (2%)

Model：160D 2835	Number:6500K
Tester:	Date:2022-04-13 13:38:20
Temperature:Deg	Humidity:%
Manufacturer:	Remarks:0.5M