



ErP LED STRIP SPECIFICATION

24V 9W CRI90 2835 180LED/M IP20/65 D



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

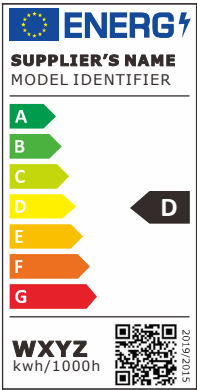
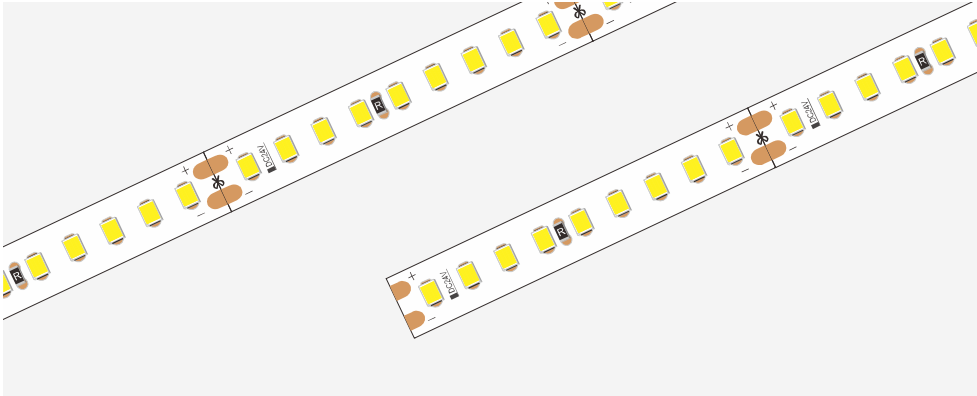
24V 9W CRI90 2835 180LED/M IP20/65 D



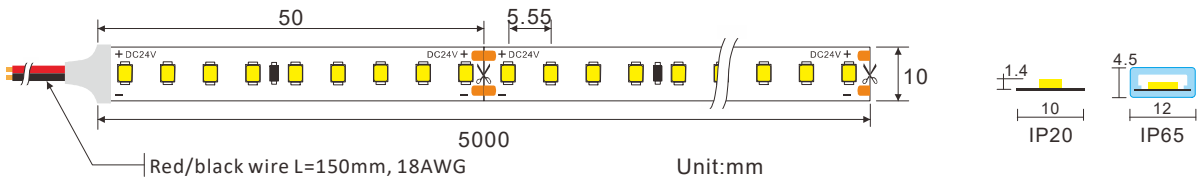
Part Number: LY180-S2835W27-W24-9W-Ra90-IP20-ErP

W27/W30/W40/W65

IP20/IP65



Dimensions & Waterproof



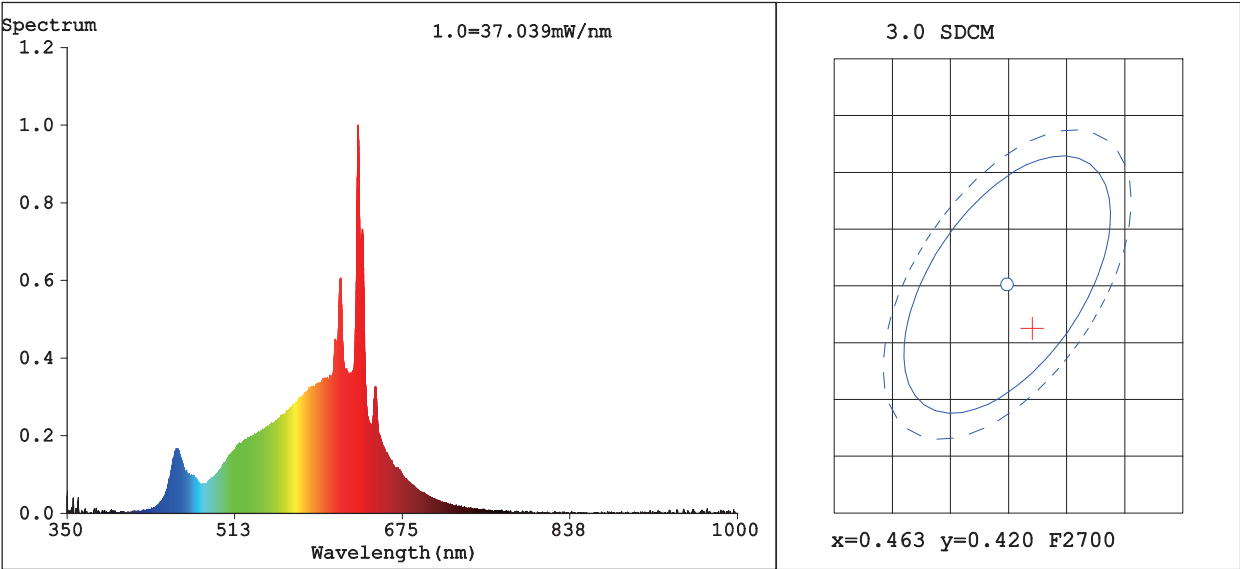
Product Specification

Max.Length	5000mm	Voltage(V)	DC24V
Chip Type	2835SMD	Power(W/m)	9W
Chip Density	180LEDs/m	Power(W/0.5m)	4.5W
Step Length	50mm/9LEDs	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	724.50	1449.00	161	D	20/65
3000K	90	724.50	1449.00	161	D	20/65
4000K	90	760.50	1521.00	169	D	20/65
6500K	90	729.00	1458.00	162	D	20/65

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.4651$ $y=0.4161$ / $u'=0.2634$ $v'=0.5302$
CCT=2670K(Duv=0.0016) Dominant WL:Ld =583.9nm WL:Lc = --nm Purity=64.5%
Ratio:R=27.0% G=70.6% B=2.3% Peak WL:Lp=632.3nm FWHM=8.5nm
Render Index:Ra=93.6 AvgR=90.6 TM30:Rf=90 Rg=97 Lav=597.6nm

R1 =95	R2 =97	R3 =99	R4 =94	R5 =94	R6 =97	R7 =91	
R8 =81	R9 =58	R10=92	R11=96	R12=82	R13=95	R14=98	R15=89

Photo Parameters:

Flux = 705.8 lm Eff. : 161.07 lm/W Fe = 2.153 W

Electrical parameters:

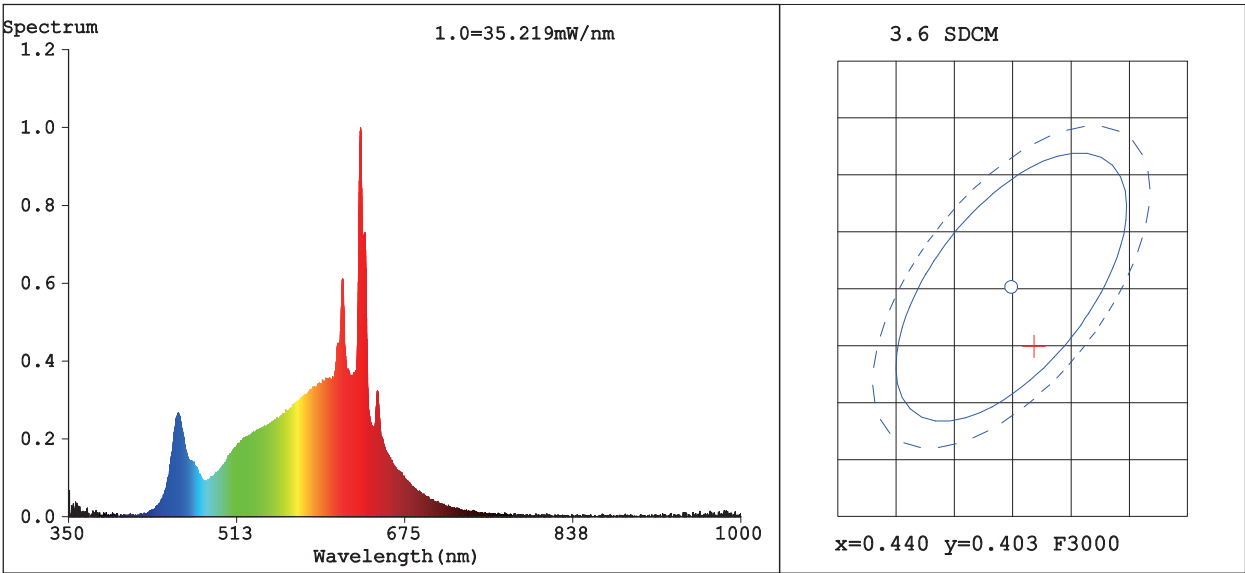
V = 23.999 V I = 0.1826 A P = 4.382 W PF = 1.000
LEVEL:OUT WHITE:ANSI_2700K

Status: Integral T = 100 ms Ip = 2321 (4%)

Model: 180D 2835
Tester:
Temperature:Deg
Manufacturer :

Number:180D-2700K
Date:2022-04-02 14:11:19
Humidity:%
Remarks:0.5M

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.4419$ $y=0.3978$ / $u'=0.2566$ $v'=0.5196$
CCT=2866K(Duv=-0.0031) Dominant WL:Ld =584.5nm WL:Lc = --nm Purity=52.0%
Ratio:R=26.0% G=71.1% B=2.9% Peak WL:Lp=632.3nm FWHM=8.5nm
Render Index:Ra=94.5 AvgR=92.6 TM30:Rf=91 Rg=101 Lav=592.3nm

R1 =97	R2 =99	R3 =98	R4 =95	R5 =97	R6 =95	R7 =91	
R8 =84	R9 =67	R10=97	R11=97	R12=81	R13=98	R14=99	R15=93

Photo Parameters:

Flux = 702.7 lm Eff. : 161.51 lm/W Fe = 2.207 W

Electrical parameters:

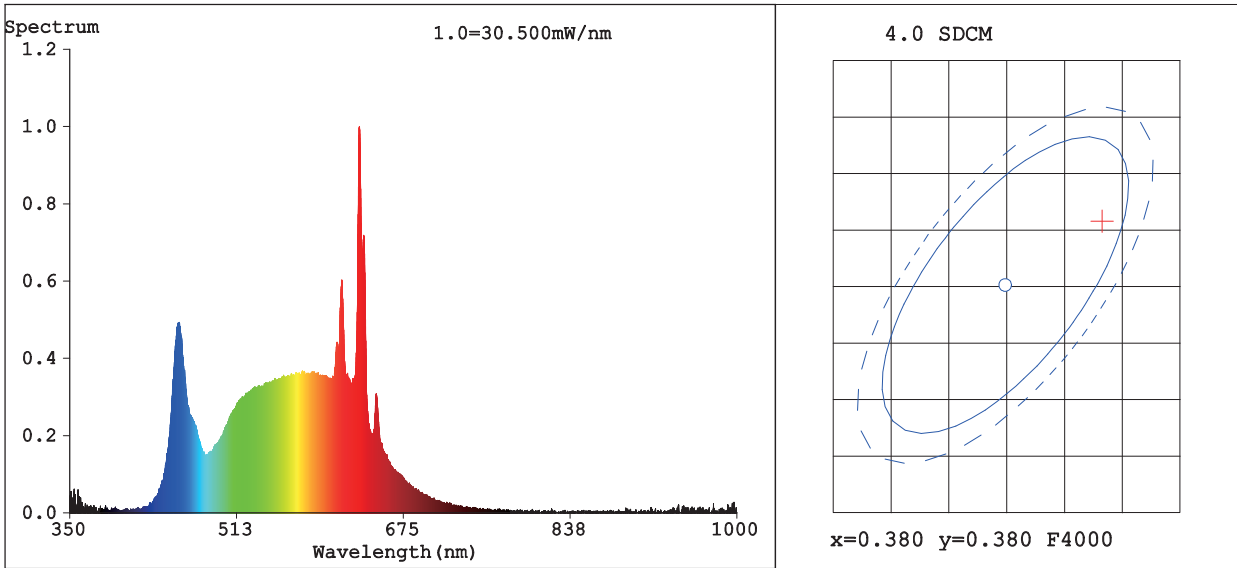
V = 23.999 V I = 0.1813 A P = 4.351 W PF = 1.000
LEVEL:OUT WHITE:ANSI_2700K

Status: Integral T = 100 ms Ip = 2207 (3%)Model:180D 2835

Model : 180D 2835
Tester:
Temperature:Deg
Manufacturer :

Number:180D-3000K
Date:2022-04-02 14:11:48
Humidity:%
Remarks:0.5M

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate:x=0.3884 y=0.3857/u'=0.2267 v'=0.5066
CCT=3859K(Duv=0.0019) Dominant WL:Ld =578.7nm WL:Lc = --nm Purity=32.3%
Ratio:R=20.6% G=75.4% B=4.0% Peak WL:Lp=632.3nm FWHM=8.3nm
Render Index:Ra=94.3 AvgR=91.1 TM30:Rf=90 Rg=98 Lav=570.8nm

R1 =96	R2 =97	R3 =96	R4 =94	R5 =93	R6 =95	R7 =94	
R8 =89	R9 =74	R10=90	R11=94	R12=68	R13=96	R14=97	R15=93

Photo Parameters:

Flux = 743.1 lm Eff. : 169.95 lm/W Fe = 2.300 W

Electrical parameters:

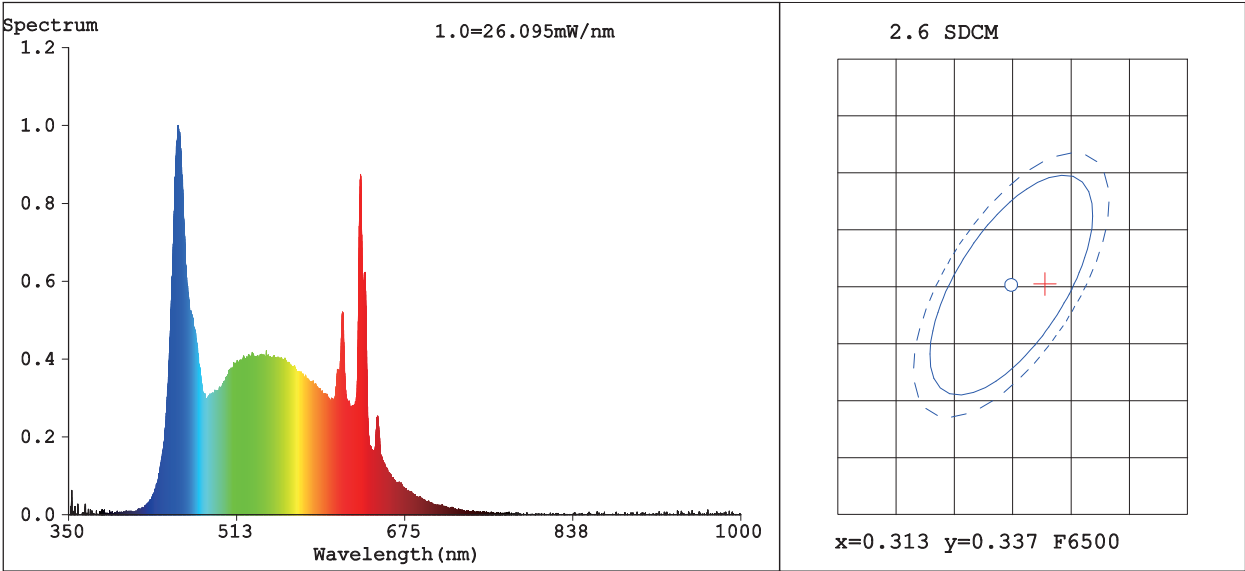
V = 23.999 V I = 0.1822 A P = 4.373 W PF = 1.000
LEVEL:OUT WHITE:ANSI_4000K

Status: Integral T = 100 ms Ip = 1910 (3%)

Model:180D 2835
Tester:
Temperature:Deg
Manufacturer:

Number:180D-4000K
Date:2022-04-02 14:12:25
Humidity:%
Remarks:0.5M

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate:x=0.3159 y=0.3371/u'=0.1970 v'=0.4731
CCT=6287K(Duv=0.0057) Dominant WL:Ld =494.5nm WL:Lc = --nm Purity=5.7%
Ratio:R=15.6% G=77.4% B=7.0% Peak WL:Lp=455.8nm FWHM=21.7nm
Render Index:Ra=94.1 AvgR=92.3 TM30:Rf=89 Rg=97 Lav=538.6nm

R1 =96	R2 =99	R3 =98	R4 =89	R5 =92	R6 =95	R7 =91	
R8 =91	R9 =88	R10=97	R11=92	R12=64	R13=98	R14=99	R15=92

Photo Parameters:

Flux = 705.0 lm Eff. : 162.12 lm/W Fe = 2.333 W

Electrical parameters:

V = 23.999 V I = 0.1812 A P = 4.349 W PF = 1.000
LEVEL:OUT WHITE:ANSI_6500K

Status: Integral T = 100 ms Ip = 1432 (2%)Model:180D 2835

Model : 180D 2835
Tester:
Temperature:Deg
Manufacturer :

Number:180D-6500K
Date:2022-04-02 14:12:55
Humidity:%
Remarks:0.5M