



ErP LED STRIP SPECIFICATION

24V 4.5W CRI80 2835 90LED/M IP20/65 C/D



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

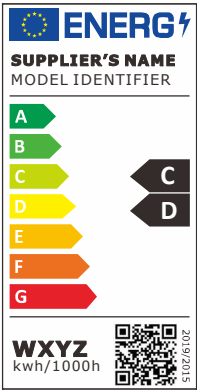
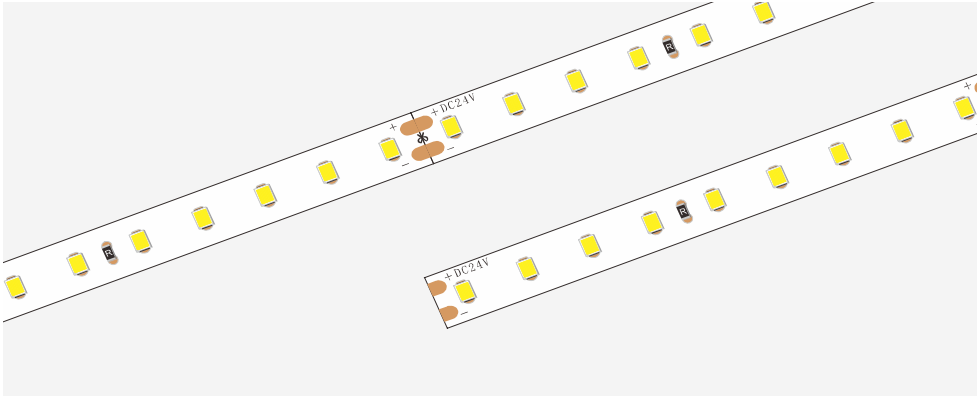
24V 4.5W CRI80 2835 90LED/M IP20/65 C/D



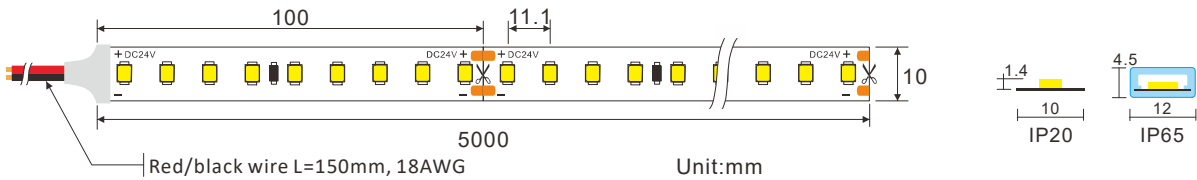
Part Number: LY90-S2835W27-W24-4.5W-Ra80-IP20-ErP

W27/W30/W40/W65

IP20/IP65



Dimensions & Waterproof



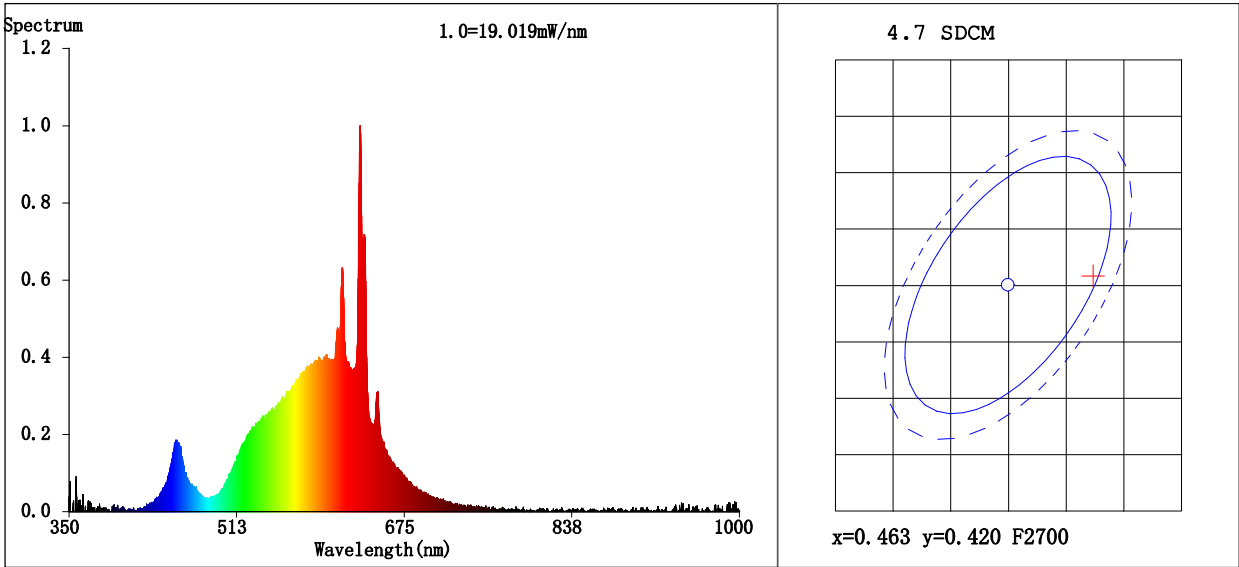
Product Specification

Max.Length	5000mm	Voltage(V)	DC24V
Chip Type	2835SMD	Power(W/m)	4.5W
Chip Density	90LEDs/m	Power(W/0.5m)	2.25W
Step Length	100mm/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	80	378.00	756.00	168	D	20/65
3000K	80	373.75	787.50	175	C	20/65
4000K	80	411.75	823.50	183	C	20/65
6500K	80	384.75	769.50	171	D	20/65

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate:x=0.4704 y=0.4208/u'=0.2647 v'=0.5327
CCT=2636K(Duv=0.0029) Dominant WL:Ld =583.7nm WL:Lc = --nm Purity=67.5%
Ratio:R=25.7% G=73.0% B=1.3% Peak WL:Lp=632.3nm FWHM=8.4nm
Render Index:Ra=82.3 AvgR=75.7

R1 =82	R2 =87	R3 =91	R4 =82	R5 =79	R6 =83	R7 =88	
R8 =67	R9 =23	R10=68	R11=78	R12=55	R13=82	R14=94	R15=76

Photo Parameters:

Flux = 396.4 lm Eff. : 168.39 lm/W Fe = 1.144 W

Electrical parameters:

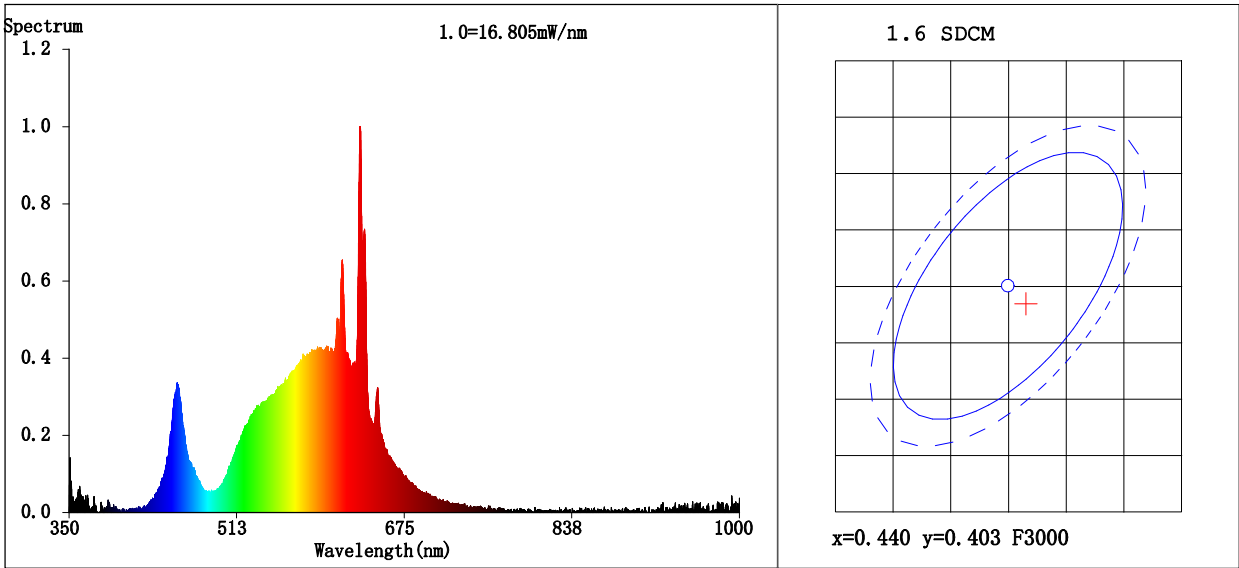
V = 23.999 V I = 0.09810 A P = 2.354 W PF = 1.000
LEVEL:OUT WHITE:ANSI_2700K

Status: Integral T = 100 ms Ip = 1193 (2%)

Model:
Tester:
Temperature:Deg
Manufacturer:

Number:90D-2700K
Date:2022-03-22 14:04:04
Humidity:%
Remarks:0.5M

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate:x=0.4415 y=0.4014/u'=0.2547 v'=0.5210
CCT=2902K(Duv=-0.0017) Dominant WL:Ld =583.8nm Purity=53.0%
Ratio:R=24.0% G=74.1% B=1.9% Peak WL:Lp=632.6nm FWHM=8.3nm
Render Index:Ra=83.5 AvgR=77.5
R1 =83 R2 =89 R3 =92 R4 =82 R5 =81 R6 =85 R7 =87
R8 =69 R9 =27 R10=72 R11=78 R12=59 R13=84 R14=94 R15=79

Photo Parameters:

Flux = 390.8 lm Eff. : 175.86 lm/W Fe = 1.160 W

Electrical parameters:

V = 23.999 V I = 0.09260 A P = 2.222 W PF = 1.000

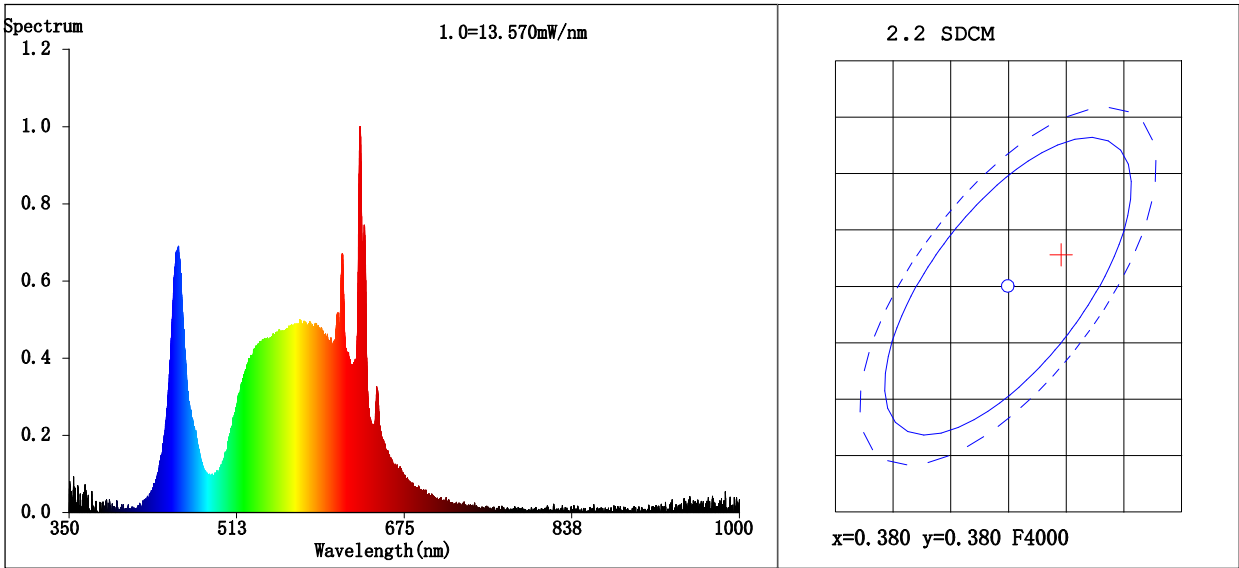
LEVEL:OUT WHITE:ANSI_3000K

Status: Integral T = 100 ms Ip = 1053 (2%)

Model:90D 2835
Tester:
Temperature:Deg
Manufacturer:

Number:90D-3000K
Date:2022-03-04 11:27:36
Humidity:%
Remarks:IP20/0.5M

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3846$ $y=0.3828$ $u'=0.2254$ $v'=0.5048$
CCT=3934K(Duv=0.0016) Dominant WL:Ld =578.5nm Purity=30.3%
Ratio:R=18.7% G=78.4% B=2.9% Peak WL:Lp=632.3nm FWHM=8.3nm
Render Index:Ra=82.8 AvgR=75.8
R1 =83 R2 =87 R3 =87 R4 =82 R5 =80 R6 =79 R7 =91
R8 =75 R9 =31 R10=64 R11=78 R12=46 R13=83 R14=92 R15=80

Photo Parameters:

Flux = 412.5 lm Eff. : 183.63 lm/W Fe = 1.226 W

Electrical parameters:

V = 23.999 V I = 0.09360 A P = 2.246 W PF = 1.000

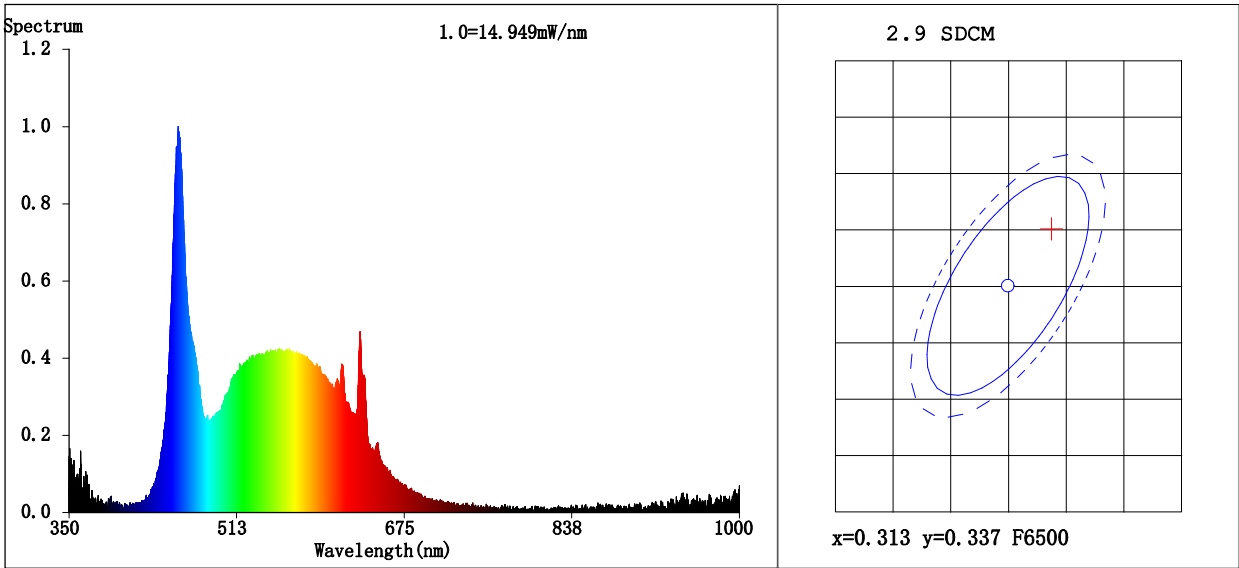
LEVEL:OUT WHITE:ANSI_4000K

Status: Integral T = 100 ms Ip = 850 (1%)

Model:90D 2835
Tester:
Temperature:Deg
Manufacturer:

Number:90D-4000K
Date:2022-03-04 11:28:33
Humidity:%
Remarks:IP20/0.5M

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3168$ $y=0.3421$ $u'=0.1958$ $v'=0.4757$
CCT=6219K(Duv=0.0078) Dominant WL:Ld =498.6nm WL:Lc = --nm Purity=5.1%
Ratio:R=13.7% G=80.3% B=6.1% Peak WL:Lp=455.8nm FWHM=18.4nm
Render Index:Ra=84.5 AvgR=77.9

R1 =83	R2 =92	R3 =95	R4 =79	R5 =82	R6 =87	R7 =88	
R8 =71	R9 =19	R10=79	R11=79	R12=55	R13=86	R14=97	R15=78

Photo Parameters:

Flux = 405.0 lm Eff. : 171.87 lm/W Fe = 1.348 W

Electrical parameters:

V = 23.999 V I = 0.09820 A P = 2.357 W PF = 1.000
LEVEL:OUT WHITE:ANSI_6500K

Status: Integral T = 100 ms Ip = 748 (1%)

Model:
Tester:
Temperature:Deg
Manufacturer:

Number:90D-6500K
Date:2022-03-22 14:04:50
Humidity:%
Remarks:0.5M