



ErP LED STRIP SPECIFICATION

24V 4.5W CRI90 2835 90LED/M IP20/65 D



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

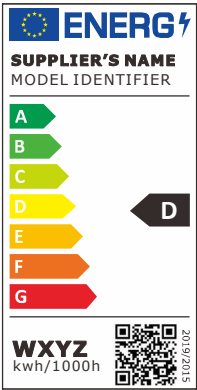
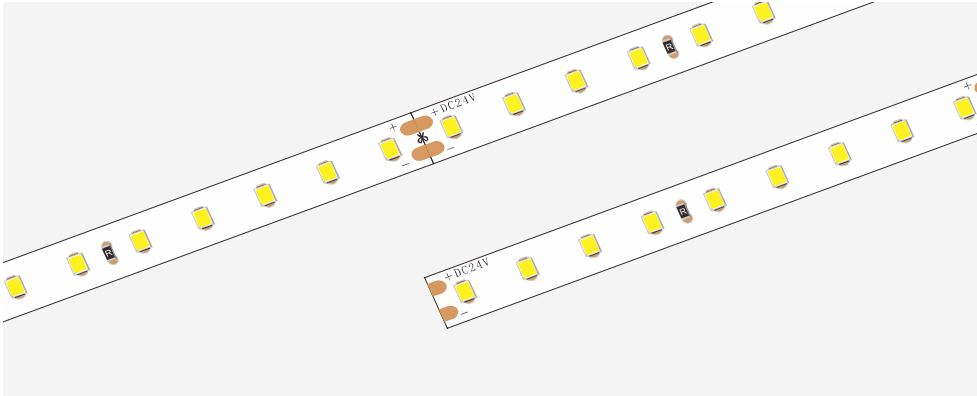
24V 4.5W CRI90 2835 90LED/M IP20/65 D



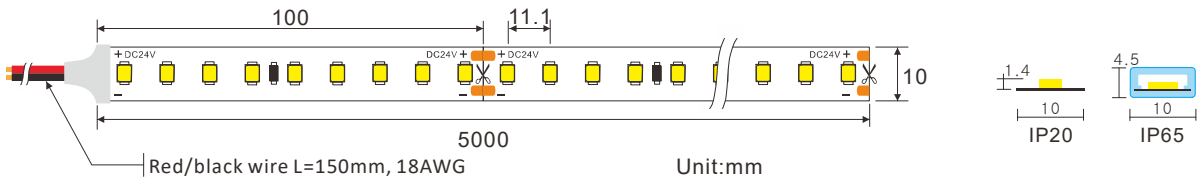
Part Number: LY90-S2835W27-W24-4.5W-Ra90-IP20-ErP

W27/W30/W40/W65

IP20/IP65



Dimensions & Waterproof



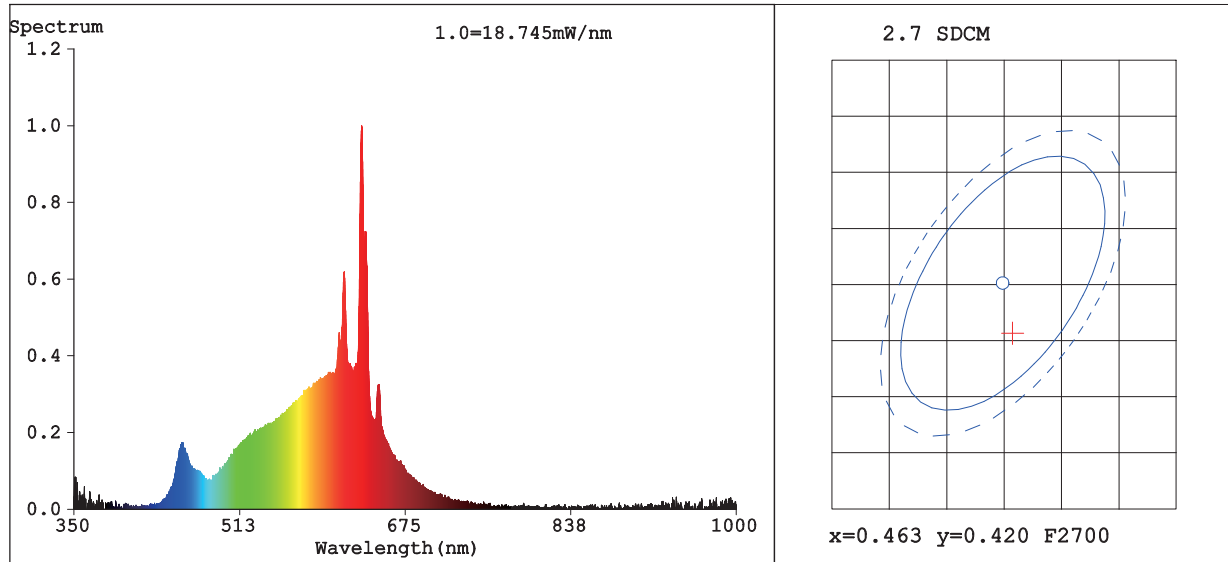
Product Specification

Max.length	5000mm	Voltage(V)	DC24V
Chip Type	2835SMD	Power(W/m)	4.5W
Chip Density	90LEDs/m	Power(W/0.5m)	2.25W
Step Length	100mm/9LEDs	Beam Angle	120°
Mac Adam 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	362.25	724.50	161	D	20/65
3000K	90	362.25	724.50	161	D	20/65
4000K	90	380.25	760.50	169	D	20/65
6500K	90	364.50	729.00	162	D	20/65

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.4638$ $y=0.4155/u'=0.2629$ $v'=0.5298$

CCT=2683K(Duv=0.0015) Dominant WL:Ld =583.8nm WL:Lc = --nm Purity=64.0%

Ratio:R=26.9% G=70.7% B=2.4% Peak WL:Lp=632.3nm FWHM=8.5nm

Render Index:Ra=93.6 AvgR=90.7 TM30:Rf=91 Rg=97 Lav=597.8nm

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

Photo Parameters:

Flux = 361.5 lm Eff. : 161.28 lm/W Fe = 1.128 W

Electrical parameters:

V = 23.999 V I = 0.09340 A P = 2.242 W PF = 1.000

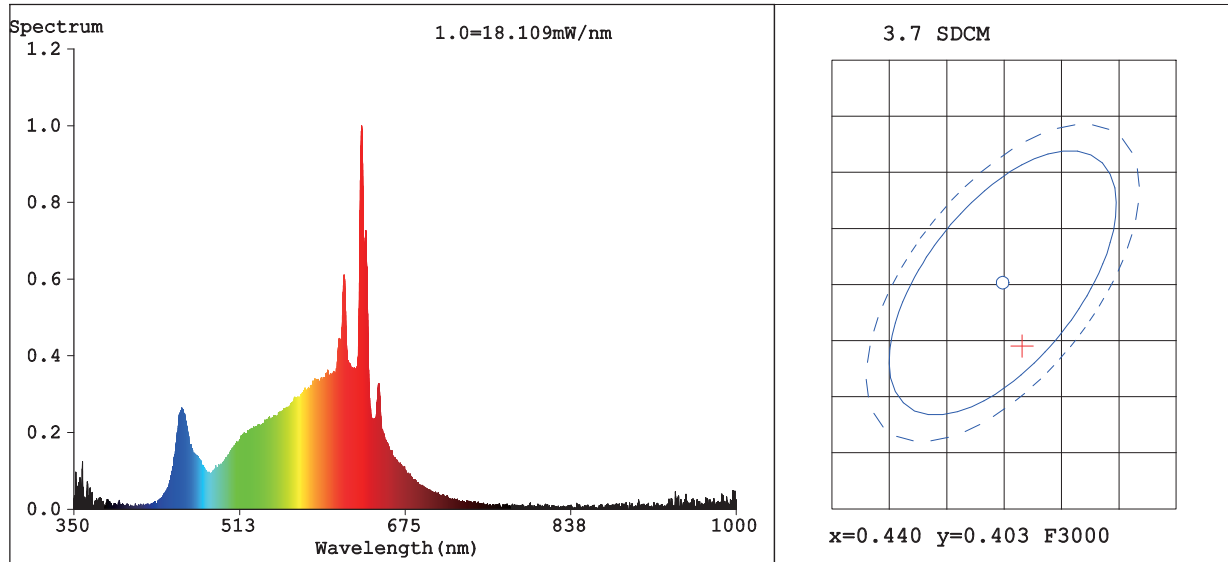
LEVEL:OUT WHITE:ANSI_2700K

Status: Integral T = 100 ms Ip = 1175 (2%)

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

Number: 90D-2700K
Date: 2022-04-02 14:08:31
Humidity: %
Remarks: 0.5M

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.4417$ $y=0.3974$ $u'=0.2566$ $v'=0.5194$

CCT=2866K(Duv=-0.0033) Dominant WL:Ld =584.6nm WL:Lc = --nm Purity=51.8%

Ratio:R=26.0% G=71.0% B=3.0% Peak WL:Lp=632.3nm FWHM=8.5nm

Render Index:Ra=94.5 AvgR=92.7 TM30:Rf=91 Rg=101 Lav=593.0nm

R1 =97	R2 =99	R3 =98	R4 =95	R5 =97	R6 =94	R7 =91	
R8 =84	R9 =67	R10=98	R11=97	R12=82	R13=99	R14=99	R15=93

Photo Parameters:

Flux = 359.7 lm Eff. : 161.18 lm/W Fe = 1.162 W

Electrical parameters:

V = 23.999 V I = 0.09300 A P = 2.232 W PF = 1.000

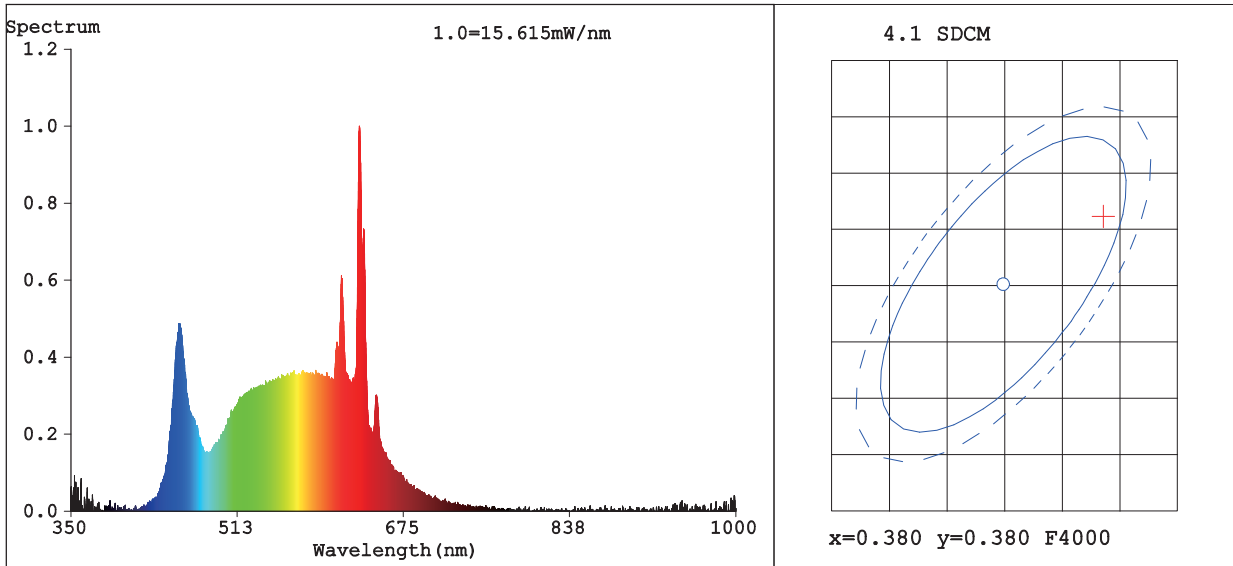
LEVEL:OUT WHITE:ANSI_2700K

Status: Integral T = 100 ms Ip = 1135 (2%)

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

Number: 90D-3000K
Date: 2022-04-02 14:09:03
Humidity: %
Remarks: 0.5M

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3887$ $y=0.3861$ $u'=0.2268$ $v'=0.5068$
CCT=3853K(Duv=0.0020) Dominant WL:Ld =578.7nm WL:Lc = --nm Purity=32.5%
Ratio:R=20.6% G=75.3% B=4.0% Peak WL:Lp=632.3nm FWHM=8.3nm
Render Index:Ra=94.3 AvgR=91.2 TM30:Rf=90 Rg=98 Lav=570.6nm

R1 =96	R2 =97	R3 =96	R4 =93	R5 =93	R6 =95	R7 =94	
R8 =90	R9 =75	R10=91	R11=94	R12=68	R13=96	R14=97	R15=93

Photo Parameters:

Flux = 376.7 lm Eff. : 169.52 lm/W Fe = 1.162 W

Electrical parameters:

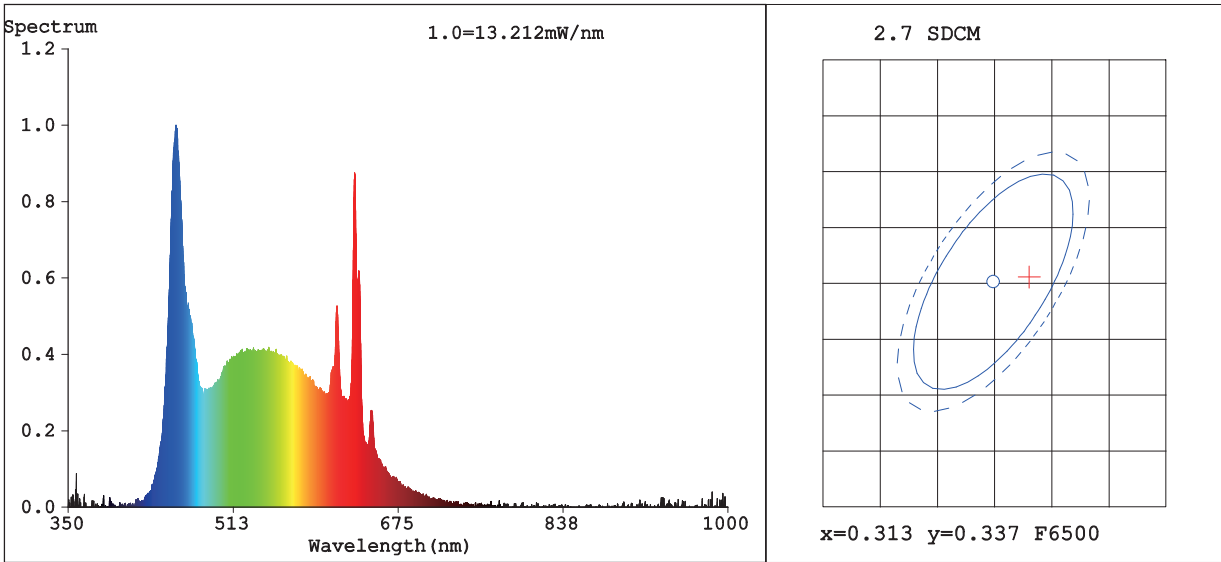
V = 23.999 V I = 0.09260 A P = 2.222 W PF = 1.000
LEVEL:OUT WHITE:ANSI_4000K

Status: Integral T = 100 ms Ip = 979 (1%)

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

Number:90D-4000K
Date:2022-04-02 14:10:17
Humidity:%
Remarks:0.5M

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate:x=0.3162 y=0.3374/u'=0.1971 v'=0.4733
CCT=6270K(Duv=0.0058) Dominant WL:Ld =494.8nm WL:Lc = --nm Purity=5.6%
Ratio:R=15.6% G=77.5% B=6.9% Peak WL:Lp=456.2nm FWHM=21.2nm
Render Index:Ra=94.1 AvgR=92.2 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 = 357.0 lm Eff. : 162.23 lm/W Fe = 1.178 W

Electrical parameters:

V = 23.999 V I = 0.09170 A P = 2.201 W PF = 1.000
LEVEL:OUT WHITE:ANSI_6500K

Status: Integral T = 100 ms Ip = 725 (1%)

Model:90D 2835	Number:90D-6500K
Tester:	Date:2022-04-02 14:10:45
Temperature:Deg	Humidity:%
Manufacturer:	Remarks:0.5M