



ErP LED STRIP SPECIFICATION

12V 4.8W CRI90 2835 80LED/M IP20/65 F

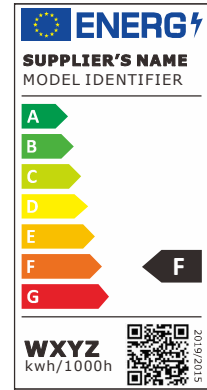
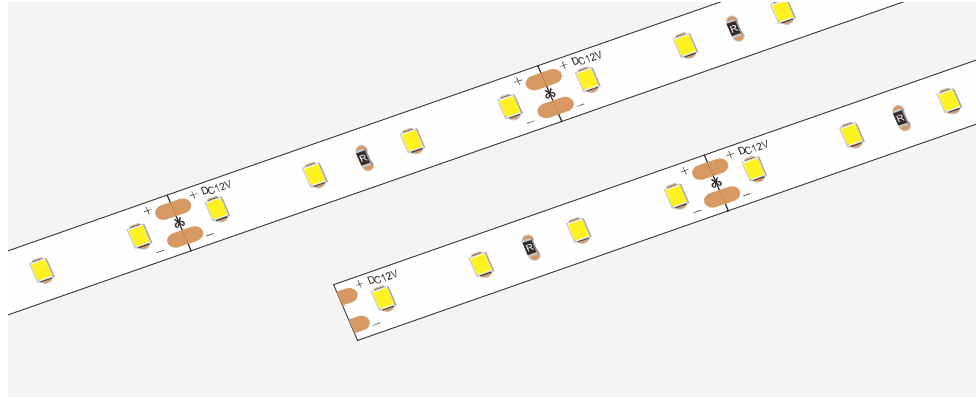


Note: LEDYI may change product specifications and installation guidance without prior notice.

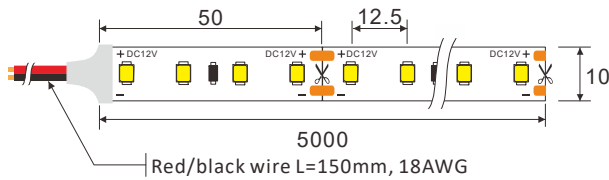
12V 4.8W CRI90 2835 80LED/M IP20/65 F



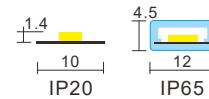
Part Number: LY80-S2835W27-W12-4.8W-Ra90-IP20-ERP
 W27/W30/W40/W65 IP20/IP65



Dimensions & Waterproof



Unit:mm



Product Specification

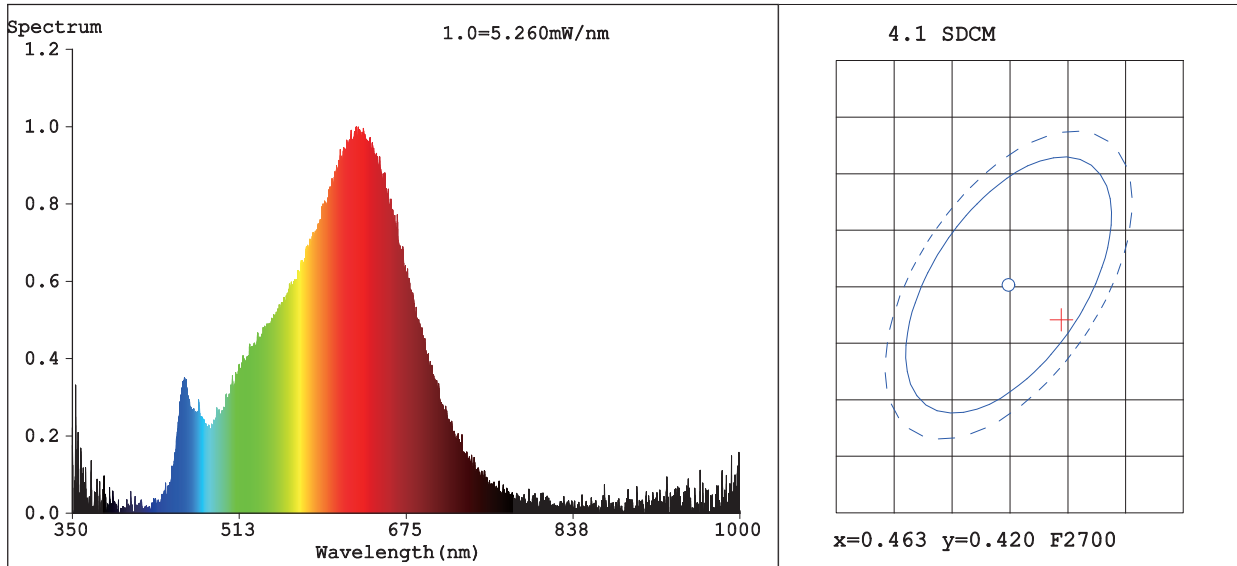
| | |
|---------------------|------------|
| Max.Length | 5000mm |
| Chip Type | 2835SMD |
| Chip Density | 80LEDs/m |
| Step Length | 50mm/4LEDs |
| MacAdam Ellipse | <6 |
| Survival Factor LED | 0.9 |

| | |
|--------------------------|------------|
| Voltage(V) | DC12V |
| Power(W/m) | 4.8W |
| Power(W/0.5m) | 2.4W |
| 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 | 247.20 | 494.40 | 103 | F | 20/65 |
| 3000K | 90 | 264.00 | 528.00 | 110 | F | 20/65 |
| 4000K | 90 | 273.60 | 547.20 | 114 | F | 20/65 |
| 6500K | 90 | 283.20 | 566.40 | 118 | F | 20/65 |

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: x=0.4676 y=0.4169/u'=0.2646 v'=0.5309

CCT=2644K(Duv=0.0017) Dominant WL:Ld =584.0nm WL:Lc = --nm Purity=65.5%

Ratio:R=27.2% G=70.2% B=2.6% Peak WL:Lp=626.5nm FWHM=137.5nm

Render Index:Ra=95.0 TM30:Rf=91 Rg=96

| | | | | | | | |
|--------|--------|--------|--------|--------|--------|--------|--------|
| R1 =96 | R2 =99 | R3 =99 | R4 =94 | R5 =96 | R6 =98 | R7 =92 | |
| R8 =86 | R9 =71 | R10=97 | R11=97 | R12=85 | R13=97 | R14=99 | R15=92 |

Photo Parameters:

Flux = 224.8 lm Eff. : 103.08 lm/W Fe = 843.3 mW

Electrical parameters:

V = 11.998 V I = 0.1818 A P = 2.181 W PF = 1.000

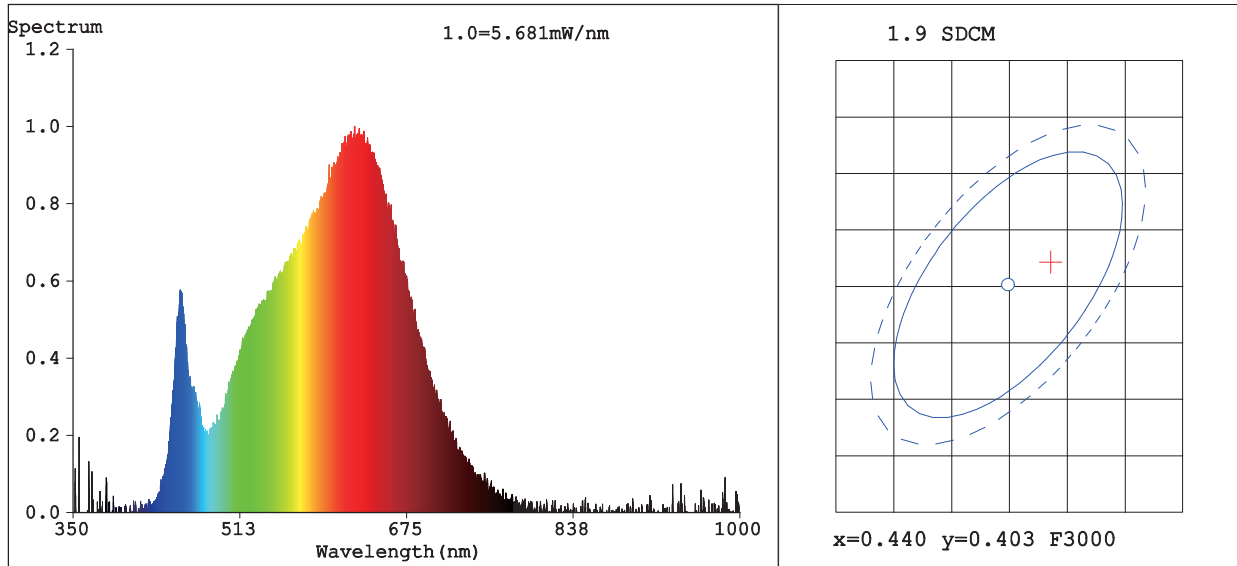
LEVEL:OUT WHITE:ANSI_2700K

Status: Integral T = 100 ms Ip = 340 (1%)

Model:
Tester:
Temperature:Deg
Manufacturer:

Number:80D-2700K-20mA-IP20
Date:2022-03-23 15:57:32
Humidity:%
Remarks:0.5M

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.4437$ $y=0.4050$ $u'=0.2545$ $v'=0.5228$
 CCT=2897K(Duv=-0.0005) Dominant WL:Ld =583.4nm WL:Lc = --nm Purity=54.7%
 Ratio:R=25.1% G=72.3% B=2.6% Peak WL:Lp=624.5nm FWHM=152.5nm
 Render Index:Ra=93.6 TM30:Rf=92 Rg=100

| | | | | | | | | |
|--------|--------|--------|--------|--------|--------|--------|--------|--|
| R1 =94 | R2 =97 | R3 =97 | R4 =93 | R5 =93 | R6 =95 | R7 =94 | | |
| R8 =86 | R9 =68 | R10=90 | R11=93 | R12=76 | R13=95 | R14=97 | R15=92 | |

Photo Parameters:

Flux = 264.9 lm Eff. : 110.78 lm/W Fe = 938.9 mW

Electrical parameters:

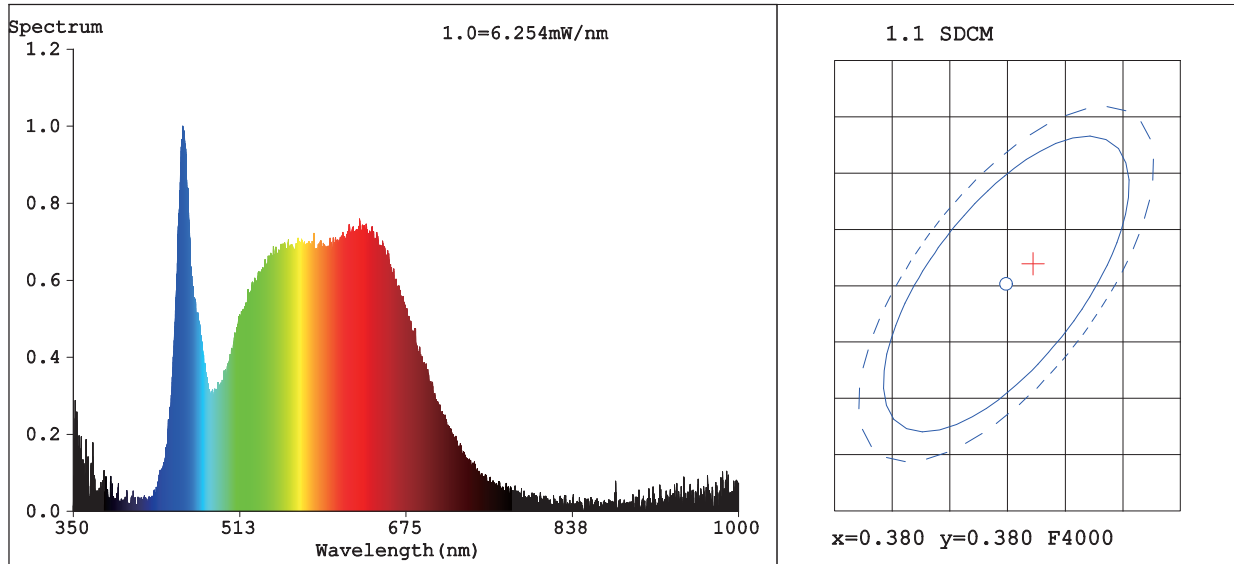
V = 11.998 V I = 0.1993 A P = 2.391 W PF = 1.000
 LEVEL:OUT WHITE:ANSI_3000K

Status: Integral T = 100 ms Ip = 370 (1%)

Model :
 Tester:
 Temperature:Deg
 Manufacturer:

Number:80D-3000K-20mA-IP20
 Date:2022-03-23 16:00:34
 Humidity:%
 Remarks:0.5M

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3823$ $y=0.3818$ $u'=0.2243$ $v'=0.5041$
 CCT=3987K(Duv=0.0018) Dominant WL:Ld =578.2nm WL:Lc = --nm Purity=29.3%
 Ratio:R=19.6% G=76.2% B=4.2% Peak WL:Lp=456.9nm FWHM=20.4nm
 Render Index:Ra=92.8 TM30:Rf=90 Rg=97

| | | | | | | | |
|--------|--------|--------|--------|--------|--------|--------|--------|
| R1 =93 | R2 =96 | R3 =95 | R4 =90 | R5 =90 | R6 =92 | R7 =95 | |
| R8 =91 | R9 =79 | R10=88 | R11=88 | R12=63 | R13=94 | R14=97 | R15=92 |

Photo Parameters:

Flux = 287.5 lm Eff. : 114.41 lm/W Fe = 1.068 W

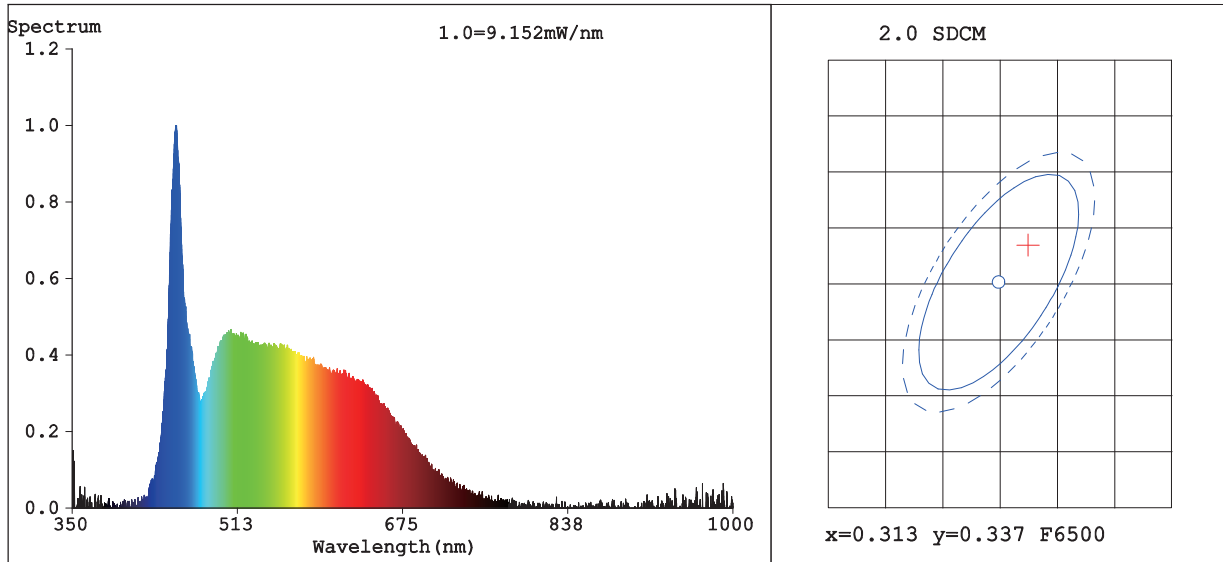
Electrical parameters:

V = 11.998 V I = 0.2094 A P = 2.512 W PF = 1.000
 LEVEL:OUT WHITE:ANSI_4000KStatus: Integral T = 100 ms Ip = 325 (0%)

Model :
 Tester:
 Temperature:Deg
 Manufacturer:

Number:80D-4000K-20mA-IP20
 Date:2022-03-23 16:01:31
 Humidity:%
 Remarks : 0.5M

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3156$ $y=0.3404$ $u'=0.1956$ $v'=0.4747$
 CCT=6284K(Duv=0.0075) Dominant WL:Ld =496.8nm WL:Lc = --nm Purity=5.6%
 Ratio:R=14.9% G=78.3% B=6.8% Peak WL:Lp=452.8nm FWHM=17.0nm
 Render Index:Ra=94.1 TM30:Rf=92 Rg=98

| | | | | | | | |
|--------|--------|--------|--------|--------|--------|--------|--------|
| R1 =93 | R2 =97 | R3 =99 | R4 =93 | R5 =93 | R6 =95 | R7 =95 | |
| R8 =89 | R9 =71 | R10=94 | R11=94 | R12=70 | R13=95 | R14=99 | R15=90 |

Photo Parameters:

Flux = 264.3 lm Ef. : 118.01 lm/W Fe = 946.5 mW

Electrical parameters:

V = 11.998 V I = 0.1867 A P = 2.240 W PF = 1.000
 LEVEL:OUT WHITE:ANSI_6500K

Status: Integral T = 100 ms Ip = 441 (1%)

Model :
 Tester:
 Temperature:Deg
 Manufacturer:

Number:80D-6500K-20mA-IP20
 Date:2022-03-23 16:02:12
 Humidity:%
 Remarks : 0.5M