



ErP LED STRIP SPECIFICATION

24V 14.4W CRI90 2835 160LED/M IP20/65 F

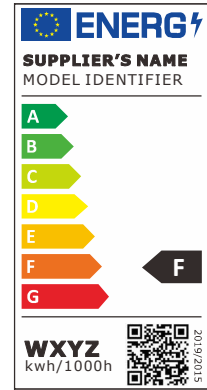
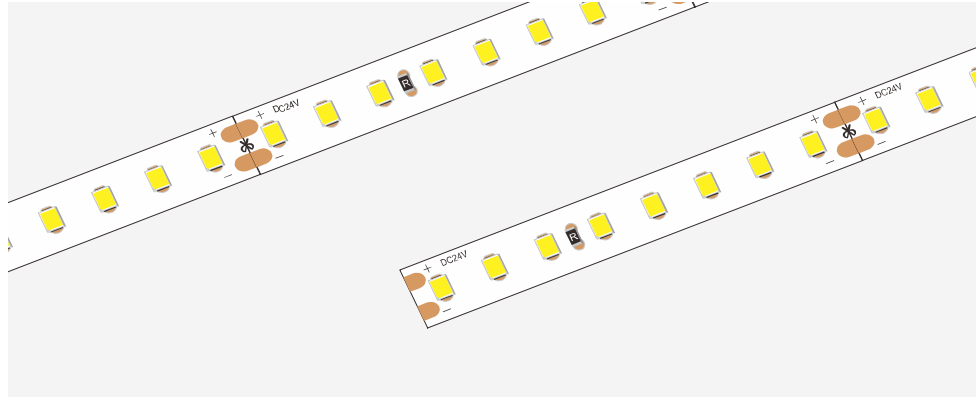


Note: LEDYI may change product specifications and installation guidance without prior notice.

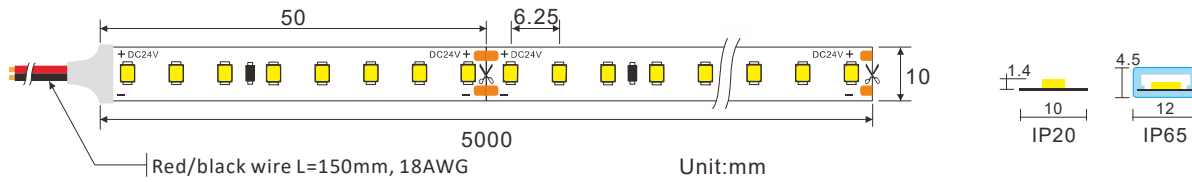
24V 14.4W CRI90 2835 160LED/M IP20/65 F



Part Number: LY160-S2835W27-W24-14.4W-Ra90-IP20-ErP
 W27/W30/W40/W65 IP20/IP65



Dimensions & Waterproof



Product Specification

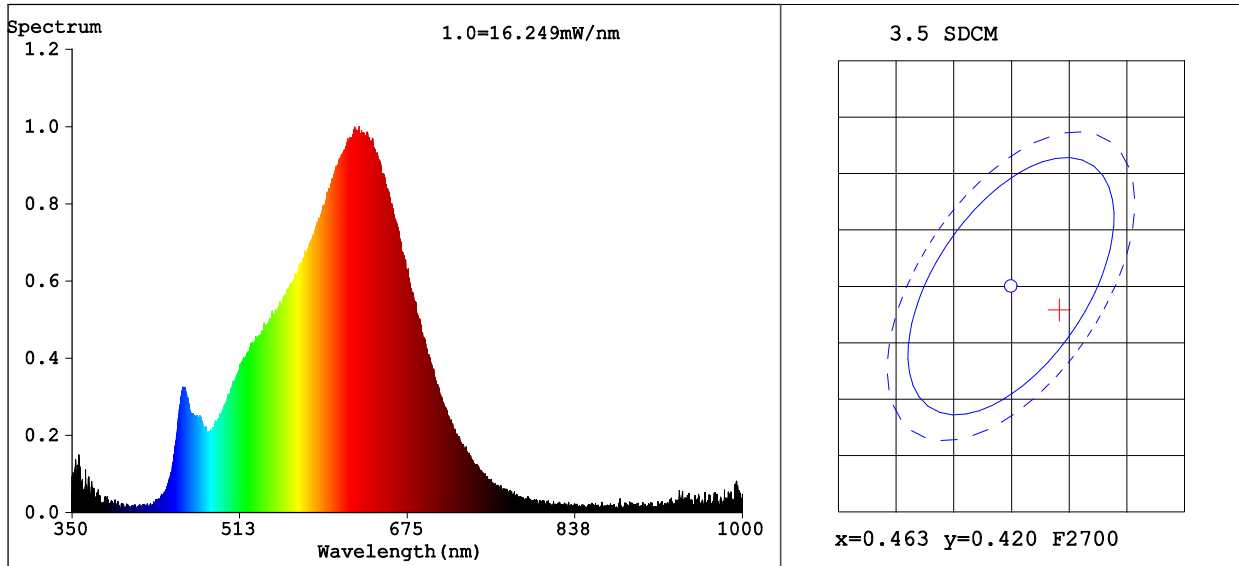
Max.Length	5000mm
Chip Type	2835SMD
Chip Density	160LEDs/m
Step Length	50mm/8LEDs
MacAdam Ellipse	<6
Survival Factor LED	0.9

Voltage(V)	DC24V
Power(W/m)	14.4W
Power(W/0.5m)	7.2W
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	705.60	1411.20	98	F	20/65
3000K	90	756.00	1512.20	105	F	20/65
4000K	90	784.80	1569.60	109	F	20/65
6500K	90	806.40	1612.80	112	F	20/65

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: x=0.4672 y=0.4179/u'=0.2639 v'=0.5312

CCT=2656K(Duv=0.0021) Dominant WL:Ld =583.8nm Purity=65.7%

Ratio:R=27.0% G=70.5% B=2.6% Peak WL:Lp=628.4nm FWHM=145.8nm

Render Index:Ra=95.0 AvgR=92.8

R1 =96	R2 =98	R3 =99	R4 =94	R5 =95	R6 =98	R7 =93	
R8 =86	R9 =69	R10=95	R11=96	R12=85	R13=97	R14=99	R15=91

Photo Parameters:

Flux = 708.1 lm Eff. : 98.16 lm/W Fe = 2.676 W

Electrical parameters:

V = 23.999 V I = 0.3006 A P = 7.214 W PF = 1.000

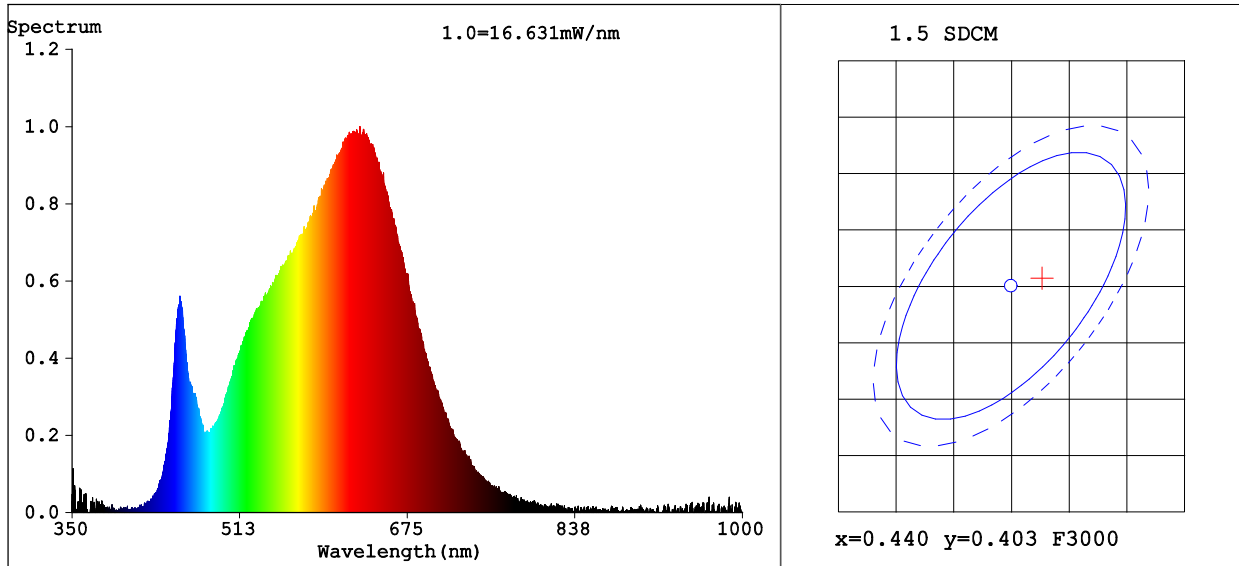
LEVEL:OUT WHITE:ANSI_2700K

Status: Integral T = 100 ms Ip = 1046 (2%)

Model:
Tester:River
Temperature:Deg
Manufacturer:

Number:160D-2700K-30mA-IP20
Date:2022-03-25 17:46:55
Humidity:%
Remarks:

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.4427$ $y=0.4037$ / $u'=0.2545$ $v'=0.5221$

CCT=2902K(Duv=-0.0009) Dominant WL:Ld =583.6nm Purity=54.0%

Ratio:R=25.0% G=72.3% B=2.7% Peak WL:Lp=629.0nm FWHM=157.4nm

Render Index:Ra=93.5 AvgR=90.7

R1 =94	R2 =97	R3 =97	R4 =93	R5 =93	R6 =95	R7 =94	
R8 =86	R9 =68	R10=90	R11=93	R12=78	R13=95	R14=97	R15=91

Photo Parameters:

Flux = 790.0 lm Eff. : 105.70 lm/W Fe = 2.834 W

Electrical parameters:

V = 23.999 V I = 0.3114 A P = 7.473 W PF = 1.000

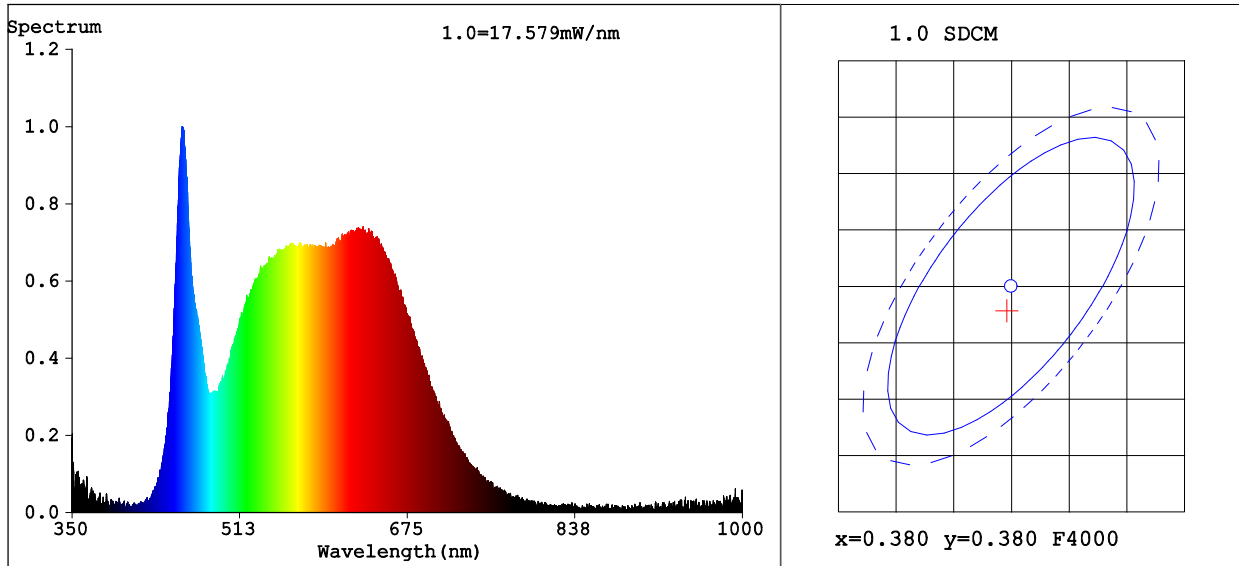
LEVEL:OUT WHITE:ANSI_3000K

Status: Integral T = 100 ms Ip = 1084 (2%)

Model:
Tester:River
Temperature:Deg
Manufacturer:

Number:160D-3000K-30mA-IP20
Date:2022-03-25 17:48:08
Humidity:%
Remarks:

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: x=0.3796 y=0.3778/u'=0.2241 v'=0.5019

CCT=4028K(Duv=0.0007) Dominant WL:Ld =578.5nm Purity=27.3%

Ratio:R=19.6% G=76.2% B=4.3% Peak WL:Lp=456.8nm FWHM=23.4nm

Render Index:Ra=93.1 AvgR=90.1

R1 =94	R2 =96	R3 =95	R4 =90	R5 =91	R6 =92	R7 =95	
R8 =91	R9 =80	R10=88	R11=89	R12=64	R13=95	R14=97	R15=93

Photo Parameters:

Flux = 810.7 lm Eff. : 109.81 lm/W Fe = 2.977 W

Electrical parameters:

V = 23.999 V I = 0.3076 A P = 7.382 W PF = 1.000

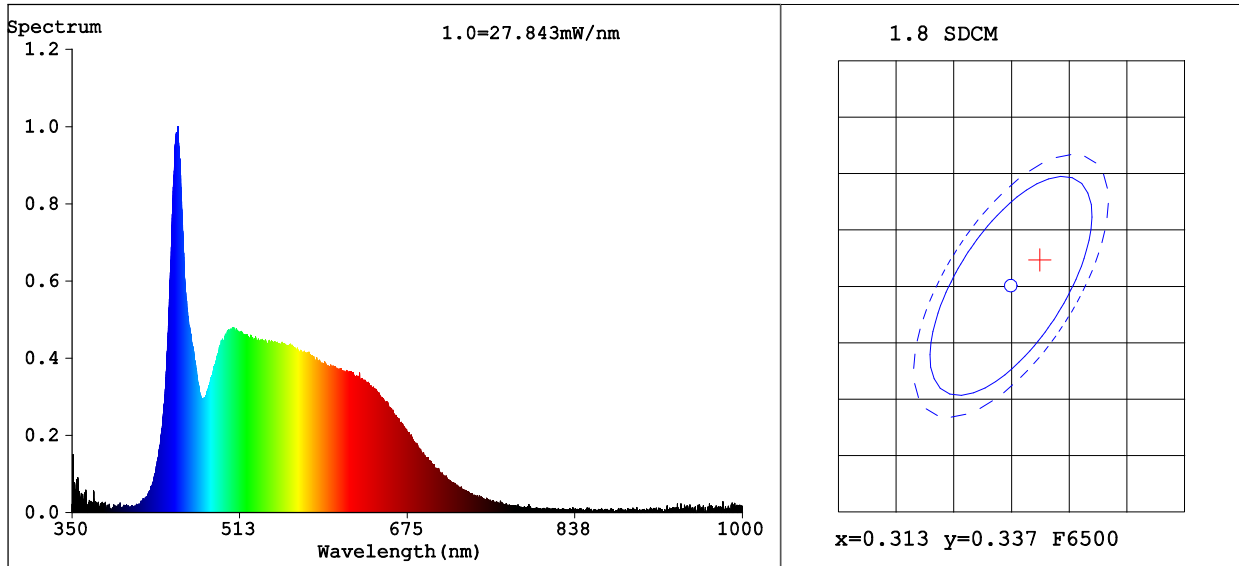
LEVEL:OUT WHITE:ANSI_4000K

Status: Integral T = 100 ms Ip = 910 (1%)

Model:
Tester:River
Temperature:Deg
Manufacturer:

Number:160D-4000K-30mA-IP20
Date:2022-03-25 17:49:03
Humidity:%
Remarks:

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3155$ $y=0.3393$ / $u'=0.1959$ $v'=0.4741$

CCT=6295K(Duv=0.0070) Dominant WL:Ld =496.0nm Purity=5.7%

Ratio:R=14.9% G=78.4% B=6.7% Peak WL:Lp=452.7nm FWHM=19.4nm

Render Index:Ra=94.1 AvgR=91.1

R1 =93	R2 =96	R3 =99	R4 =93	R5 =93	R6 =94	R7 =95	
R8 =89	R9 =71	R10=93	R11=94	R12=72	R13=94	R14=99	R15=91

Photo Parameters:

Flux = 841.1 lm Eff. : 112.19 lm/W Fe = 3.061 W

Electrical parameters:

V = 23.999 V I = 0.3124 A P = 7.497 W PF = 1.000

LEVEL:OUT WHITE:ANSI_6500K

Status: Integral T = 100 ms Ip = 1340 (2%)

Model:
Tester:River
Temperature:Deg
Manufacturer:

Number:160D-6500K-30mA-IP20
Date:2022-03-25 17:50:25
Humidity:%
Remarks: