



ErP LED STRIP SPECIFICATION

12V 14.4W CRI90 2835 240LED/M IP20/65 F



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

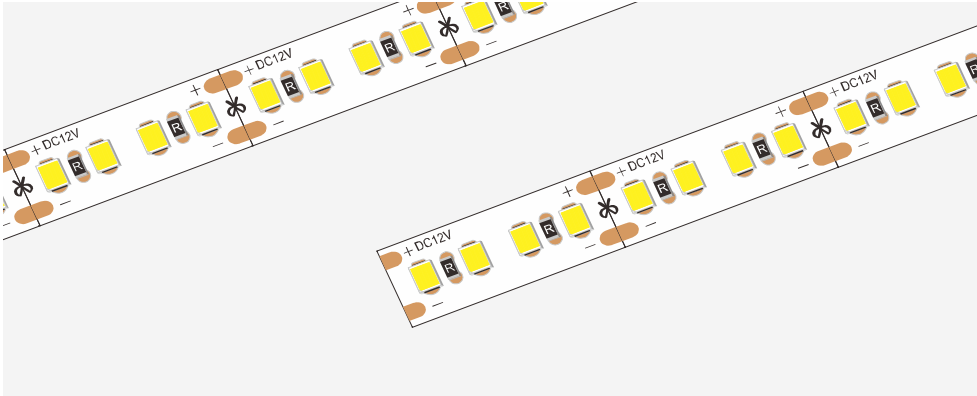
12V 14.4W CRI90 2835 240LED/M IP20/65 F



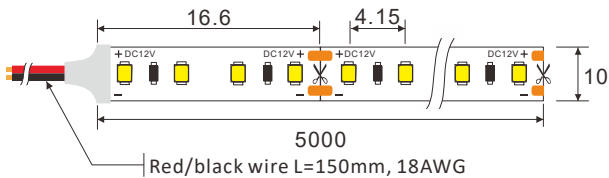
Part Number: LY240-S2835W27-W12-14.4W-Ra90-IP20-ErP

W27/W30/W40/W65

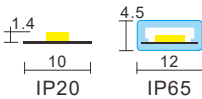
IP20/IP65



Dimensions & Waterproof



Unit:mm



Product Specification

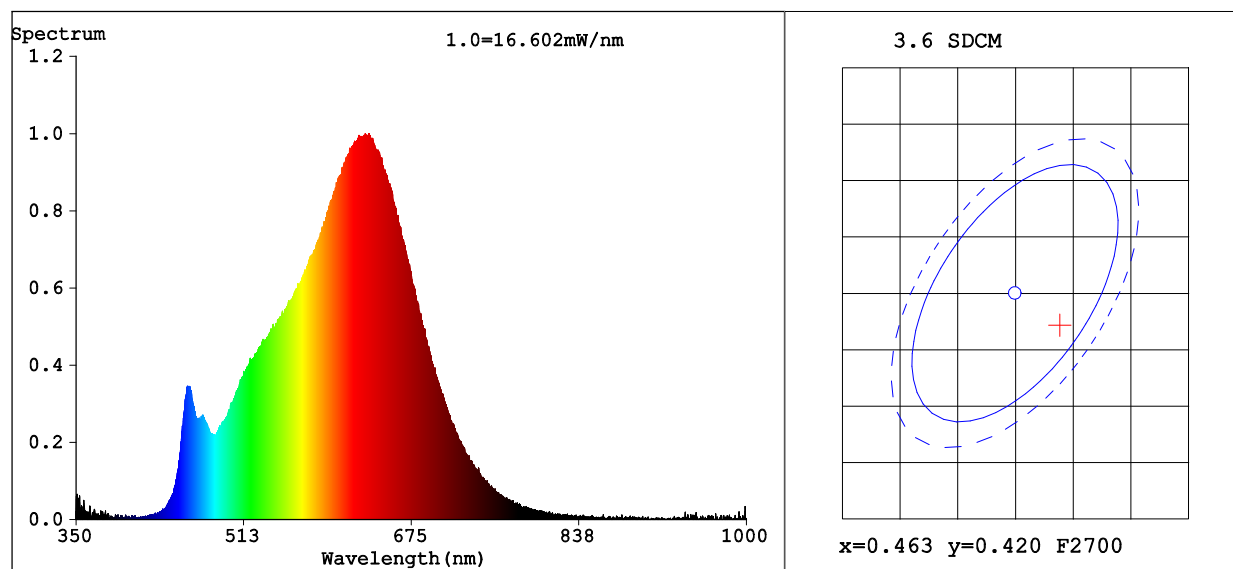
Max.Length	5000mm
Chip Type	2835SMD
Chip Density	240LEDs/m
Step Length	16.6mm/4LEDs
MacAdam Ellipse	<6
Survival Factor LED	0.9

Voltage(V)	DC12V
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	727.20	1454.40	101	F	20/65
3000K	90	777.60	1555.20	108	F	20/65
4000K	90	799.20	1598.40	111	F	20/65
6500K	90	828.00	1656.00	115	F	20/65

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.4669$ $y=0.4172$ $u'=0.2641$ $v'=0.5309$

CCT=2655K(Duv=0.0018) Dominant WL:Ld =583.9nm Purity=65.4%

Ratio:R=27.1% G=70.3% B=2.6%

Peak WL:Lp=634.0nm FWHM=141.4nm

Render Index:Ra=95.1 AvgR=93.1

R1 =96 R2 =99 R3 =99 R4 =94 R5 =96 R6 =98 R7 =92

R8 =86 R9 =71 R10=97 R11=97 R12=84 R13=97 R14=99 R15=92

Photo Parameters:

Flux = 725.3 lm Eff. : 101.31 lm/W Fe = 2.675 W

Electrical parameters:

V = 11.998 V I = 0.5967 A P = 7.159 W PF = 1.000

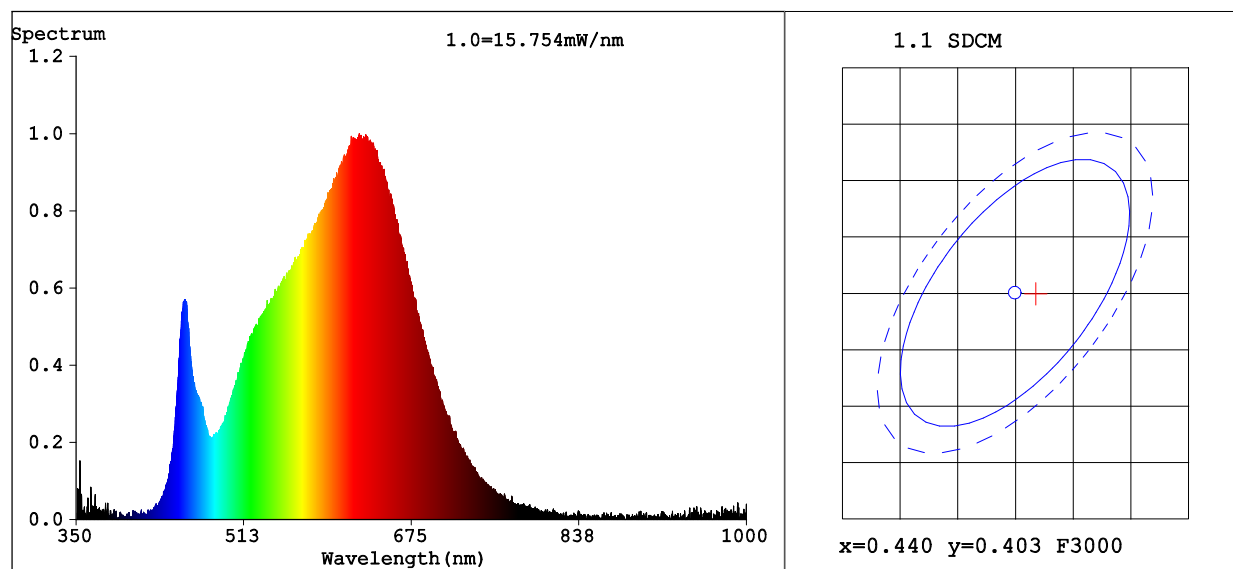
LEVEL:OUT WHITE:ANSI_2700K

Status: Integral T = 500 ms Ip = 5344 (8%)

Model:
Tester:River
Temperature:Deg
Manufacturer:

Number:240D-2700K-20mA-IP20
Date:2022-03-25 17:37:19
Humidity:%
Remarks:

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.4418$ $y=0.4029$ $u'=0.2542$ $v'=0.5217$

CCT=2911K(Duv=-0.0011) Dominant WL:Ld =583.6nm Purity=53.5%

Ratio:R=25.0% G=72.2% B=2.7%

Peak WL:Lp=624.8nm FWHM=158.6nm

Render Index:Ra=93.8 AvgR=91.2

R1 =95 R2 =97 R3 =97 R4 =93 R5 =94 R6 =95 R7 =93

R8 =86 R9 =69 R10=91 R11=94 R12=78 R13=95 R14=98 R15=92

Photo Parameters:

Flux = 749.3 lm Eff. : 108.97 lm/W $F_e = 2.700$ W

Electrical parameters:

V = 11.998 V I = 0.5731 A P = 6.876 W PF = 1.000

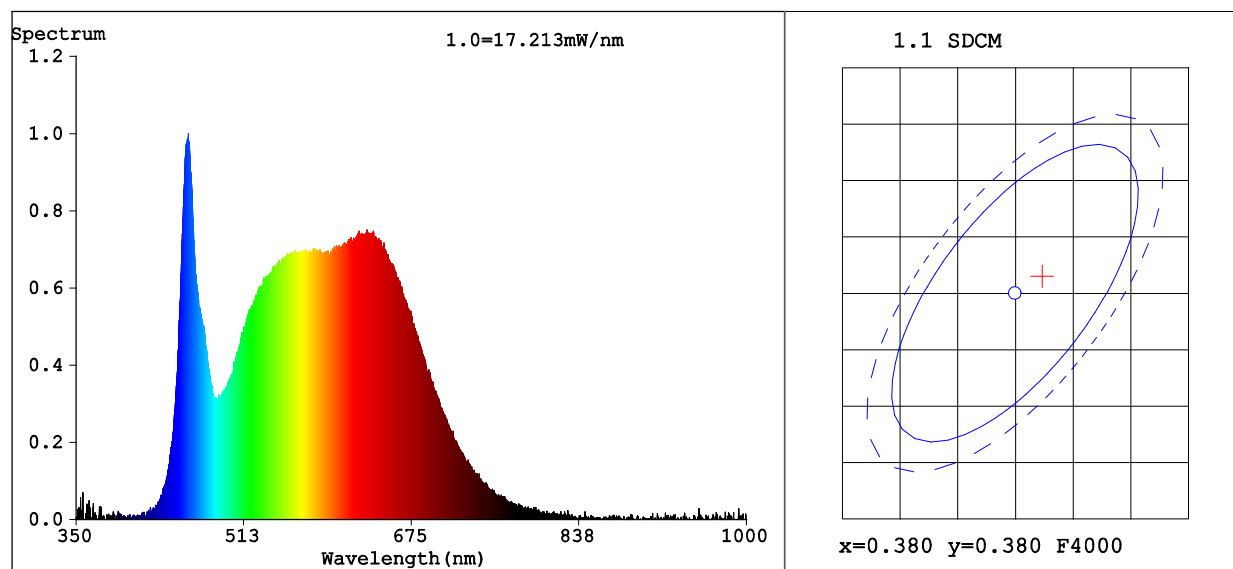
LEVEL:OUT WHITE:ANSI_3000K

Status: Integral T = 100 ms $I_p = 1040$ (2%)

Model:
Tester:River
Temperature:Deg
Manufacturer:

Number:240D-3000K-20mA-IP20
Date:2022-03-25 17:40:19
Humidity:%
Remarks:

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3823$ $y=0.3815$ $u'=0.2245$ $v'=0.5039$

CCT=3984K(Duv=0.0016) Dominant WL:Ld =578.3nm Purity=29.2%

Ratio:R=19.6% G=76.1% B=4.3%

Peak WL:Lp=458.9nm FWHM=23.8nm

Render Index:Ra=93.0 AvgR=89.9

R1 =94

R2 =97

R3 =96

R4 =89

R5 =90

R6 =92

R7 =94

R8 =91

R9 =80

R10=89

R11=88

R12=63

R13=95

R14=97

R15=92

Photo Parameters:

Flux = 796.4 lm Eff. : 111.41 lm/W Fe = 2.855 W

Electrical parameters:

V = 11.998 V I = 0.5958 A P = 7.148 W PF = 1.000

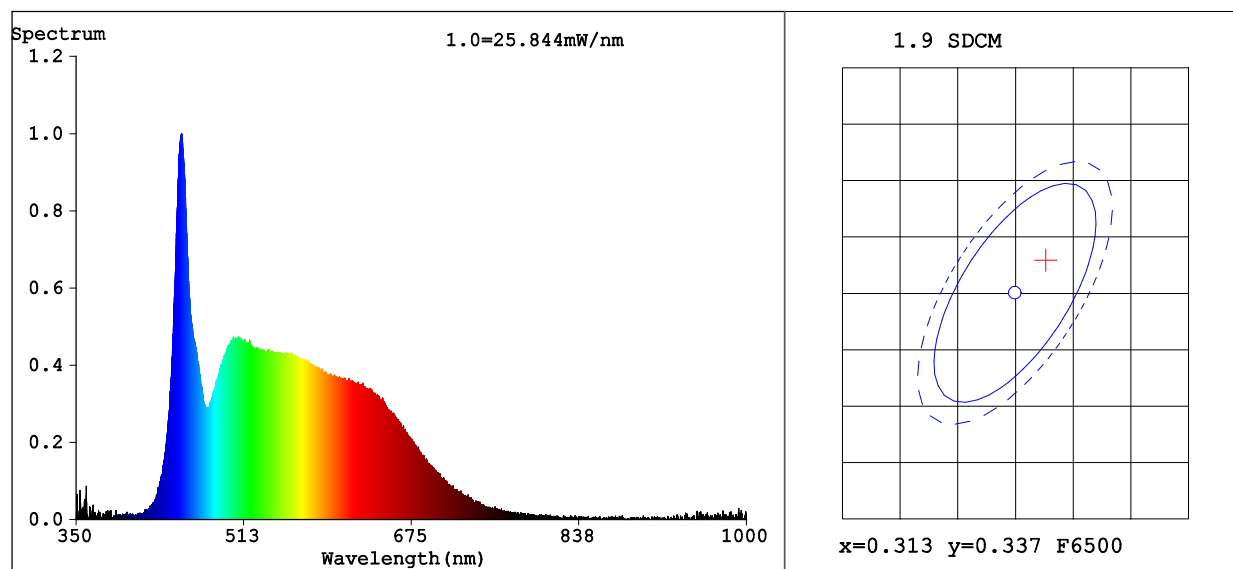
LEVEL:OUT WHITE:ANSI_4000K

Status: Integral T = 100 ms Ip = 892 (1%)

Model:
Tester:River
Temperature:Deg
Manufacturer:

Number:240D-4000K-20mA-IP20
Date:2022-03-25 17:41:14
Humidity:%
Remarks:

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3157$ $y=0.3399$ $u'=0.1958$ $v'=0.4745$

CCT=6282K(Duv=0.0072) Dominant WL:Ld =496.5nm Purity=5.6%

Ratio:R=14.9% G=78.3% B=6.8%

Peak WL:Lp=452.4nm FWHM=18.4nm

Render Index:Ra=94.2 AvgR=91.2

R1 =93

R2 =97

R3 =99

R4 =93

R5 =93

R6 =95

R7 =95

R8 =89

R9 =72

R10=94

R11=94

R12=71

R13=95

R14=99

R15=91

Photo Parameters:

Flux = 765.8 lm Eff. : 115.69 lm/W Fe = 2.756 W

Electrical parameters:

V = 11.998 V I = 0.5517 A P = 6.619 W PF = 1.000

LEVEL:OUT WHITE:ANSI_6500K

Status: Integral T = 100 ms Ip = 1235 (2%)

Model:
Tester:River
Temperature:Deg
Manufacturer:

Number:240D-6500K-20mA-IP20
Date:2022-03-25 17:41:53
Humidity:%
Remarks: