



COB12-24V-DRGB-WS2811

Product Details

Code	COB12-24V-DRGB-WS2811
Warranty	3 Years
RoHS Compliance	IEC 62321:2013
CE Certification	EN 55015:2013/A1:2015 EN 61000-3-2:2014 EN 61000-3-3:2013 EN 61547:2009

Physical Data

PCB Colour	White
PCB Width	12mm
Thickness Including LED	2.5mm
Cut Points	50mm

Electrical Data

Voltage	24V
Power Consumption	12W/m
Dimmable	Yes(SPI)

Light Data

Colour Temperature

RGB

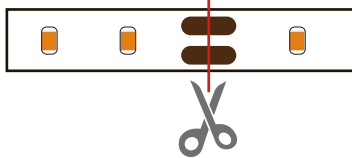
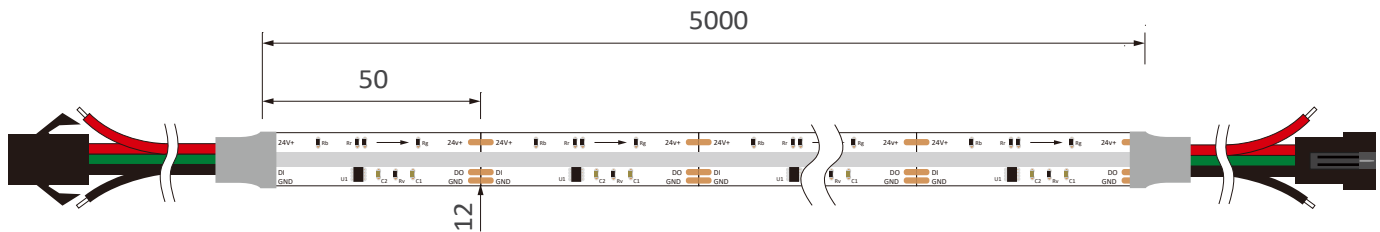
Lumens per Metre	R:86 G: 373 B: 40 RGB:499
LEDs per Metre	840
Beam Angle	120°
Colour Rendering Index(CRI)	/
LED Type	COB
LED Manufacturer	Sanan

Environment

Operating Temperature	-30 ~ 60°C
Ingress Protection (IP) Rating	65

COB12-24V-DRGB-WS2811

COB 840chips/m DC24V Unit:mm

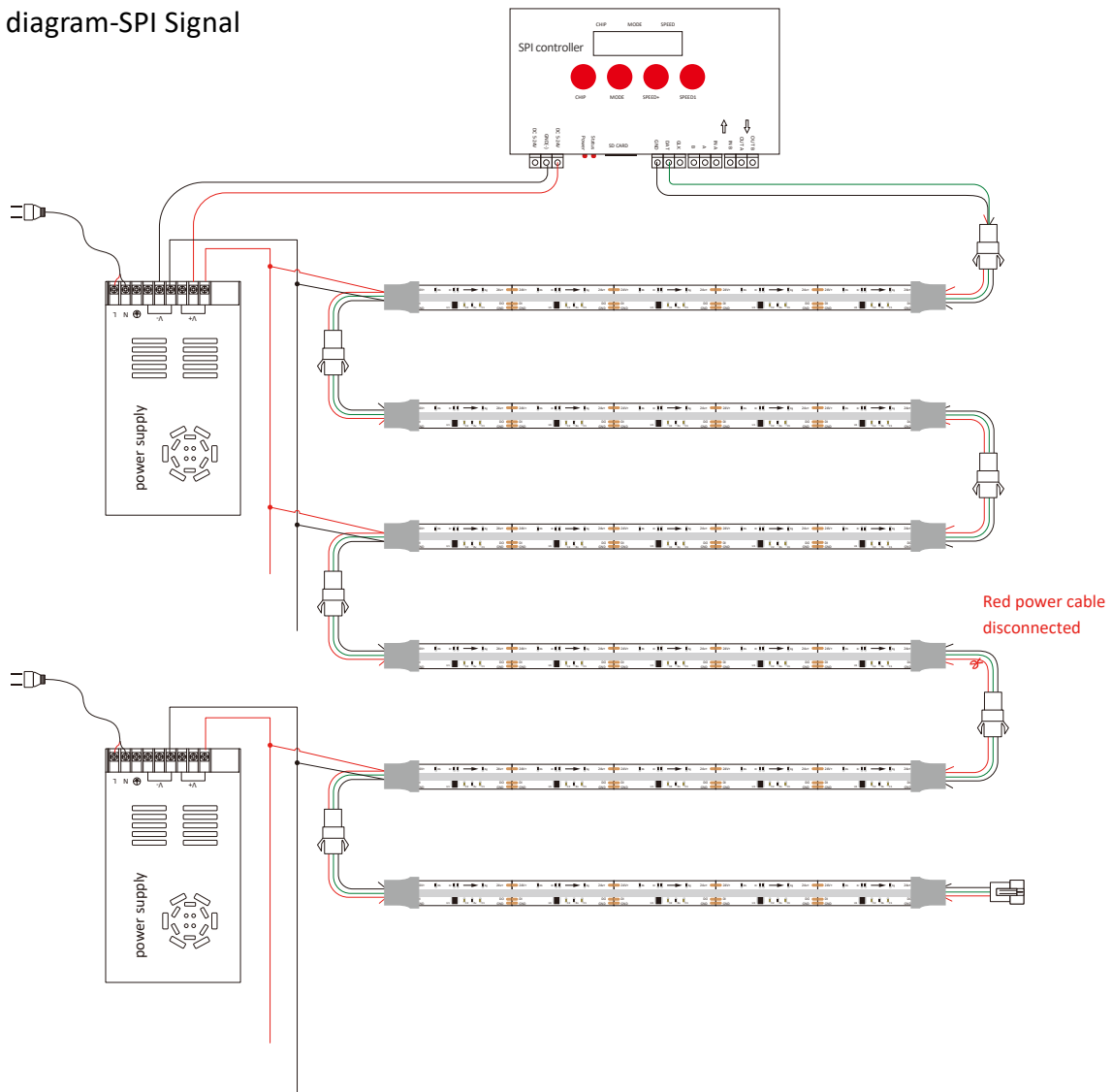


Cut in the
centre of the
copper or
soldered points

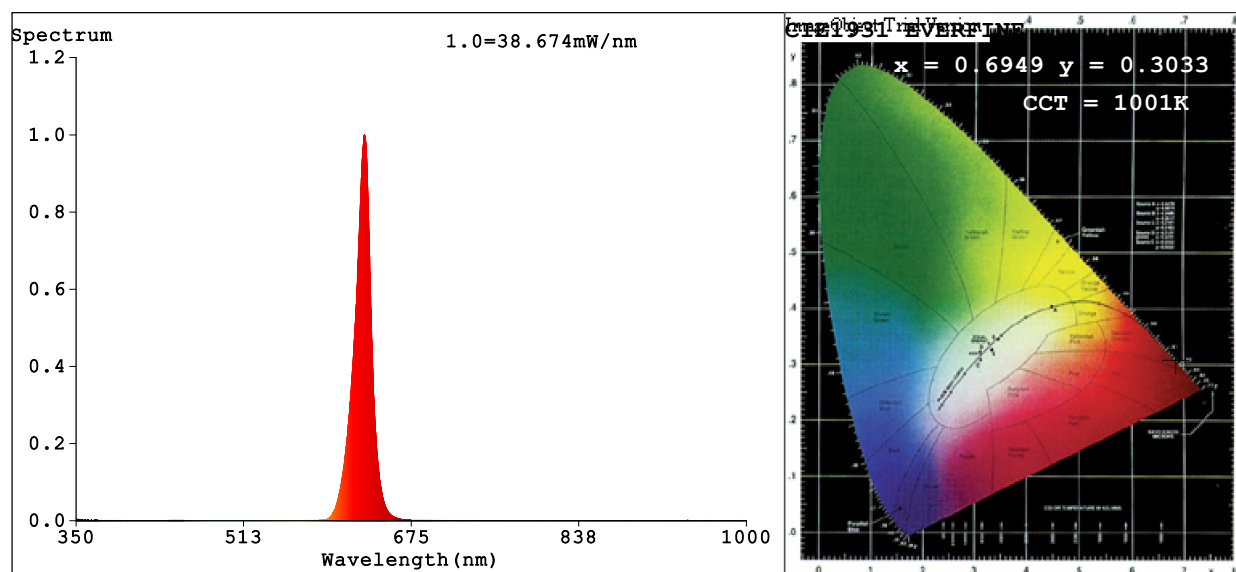


Peel off paper backing to
reveal 3m self adhesive

Connection diagram-SPI Signal



Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.6949$ $y=0.3033$ $u'=0.5295$ $v'=0.5200$
 CCT=1001K (Duv=-0.0820) Dominant WL:Ld =622.7nm WL:Lc = --nm Purity=99.5%
 Ratio:R=98.6% G=1.4% B=0.0% Peak WL:Lp=629.7nm FWHM=15.9nm
 Render Index:Ra=24.9 AvgR=29.1 TM30:Rf=0 Rg=0

R1 =3 R2 =79 R3 =25 R4 =0 R5 =0 R6 =92 R7 =0
 R8 =0 R9 =0 R10=73 R11=0 R12=78 R13=29 R14=56 R15=0

Photo Parameters:

Flux = 86.8 lm Eff. : 21.36 lm/W Fe = 741.0 mW

Electrical parameters:

V = 23.998 V I = 0.1694 A P = 4.065 W PF = 1.000

LEVEL:OUT WHITE:OUT

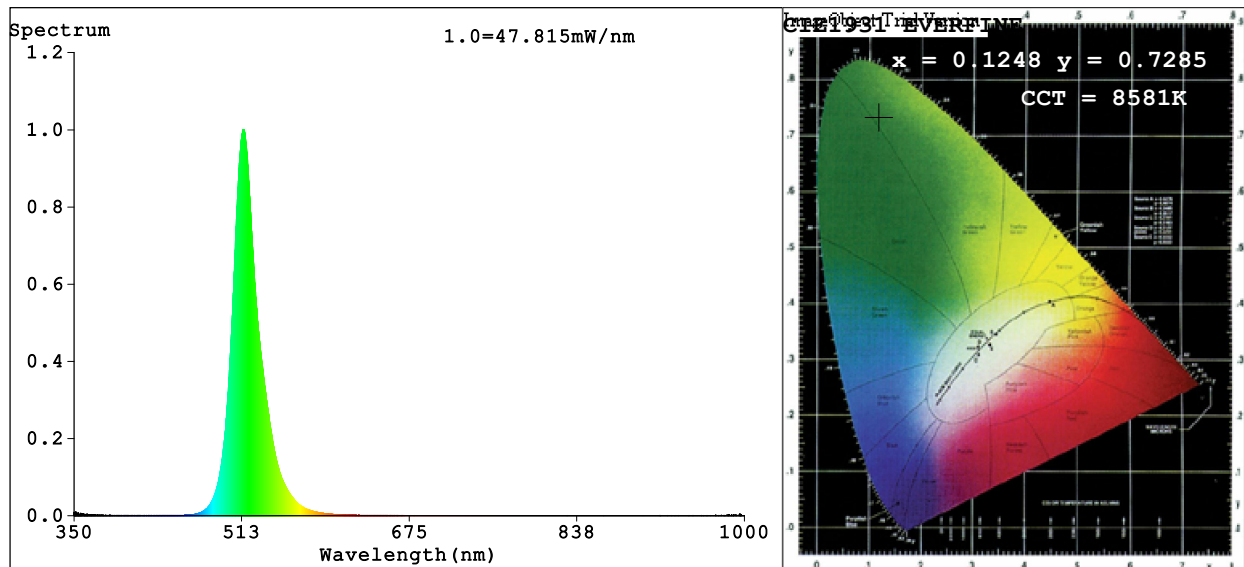
Status: Integral T = 133 ms Ip = 51133 (78%)

GBT5702

Model:
 Tester:
 Temperature:Deg
 Manufacturer:

Number:COB-840D-DRGB-12MM-12W-1
 Date:2024-03-27 11:00:34
 Humidity:%
 Remarks:IP20/1M

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.1248$ $y=0.7285$ $u'=0.0434$ $v'=0.5705$
CCT=8581K (Duv=0.1705) Dominant WL:Ld =519.4nm WL:Lc = --nm Purity=79.1%
Ratio:R=0.2% G=97.0% B=2.9% Peak WL:Lp=514.4nm FWHM=25.2nm
Render Index:Ra=0.0 AvgR=2.0 TM30:Rf=1 Rg=5

R1 =0 R2 =0 R3 =0 R4 =0 R5 =0 R6 =0 R7 =0
R8 =0 R9 =0 R10=0 R11=0 R12=0 R13=0 R14=31 R15=0

Photo Parameters:

Flux = 373.53lm Eff. : 91.35 lm/W Fe = 1.497 W

Electrical parameters:

V = 23.998 V I = 0.1794 A P = 4.089 W PF = 1.000

LEVEL:OUT WHITE:OUT

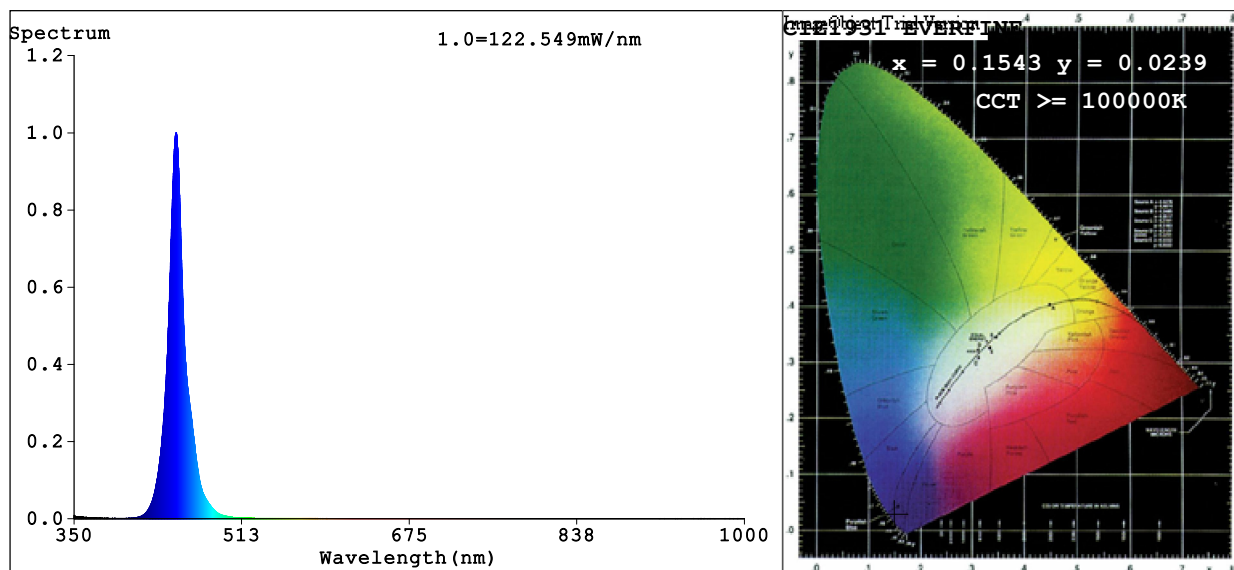
Status: Integral T = 66 ms Ip = 40875 (62%)

GBT5702

Model:
Tester:
Temperature:Deg
Manufacturer:

Number:COB-840D-DRGB-12MM-12W-2
Date:2024-03-27 11:01:44
Humidity:%
Remarks:IP20/1M

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.1543$ $y=0.0239$ $u'=0.2072$ $v'=0.0723$
CCT=100000K (Duv=-0.2194) Dominant WL:Ld =453.5nm WL:Lc = --nm Purity=99.1%
Ratio:R=0.5% G=7.5% B=92.0% Peak WL:Lp=449.1nm FWHM=14.9nm
Render Index:Ra=0.3 AvgR=0.2 TM30:Rf=0 Rg=8

R1 =0 R2 =0 R3 =0 R4 =0 R5 =3 R6 =0 R7 =0
R8 =0 R9 =0 R10=0 R11=0 R12=0 R13=0 R14=0 R15=0

Photo Parameters:

Flux = 40.00 lm Eff. : 9.96 lm/W Fe = 2.486 W

Electrical parameters:

V = 23.998 V I = 0.1672 A P = 4.014 W PF = 1.000

LEVEL:OUT WHITE:OUT

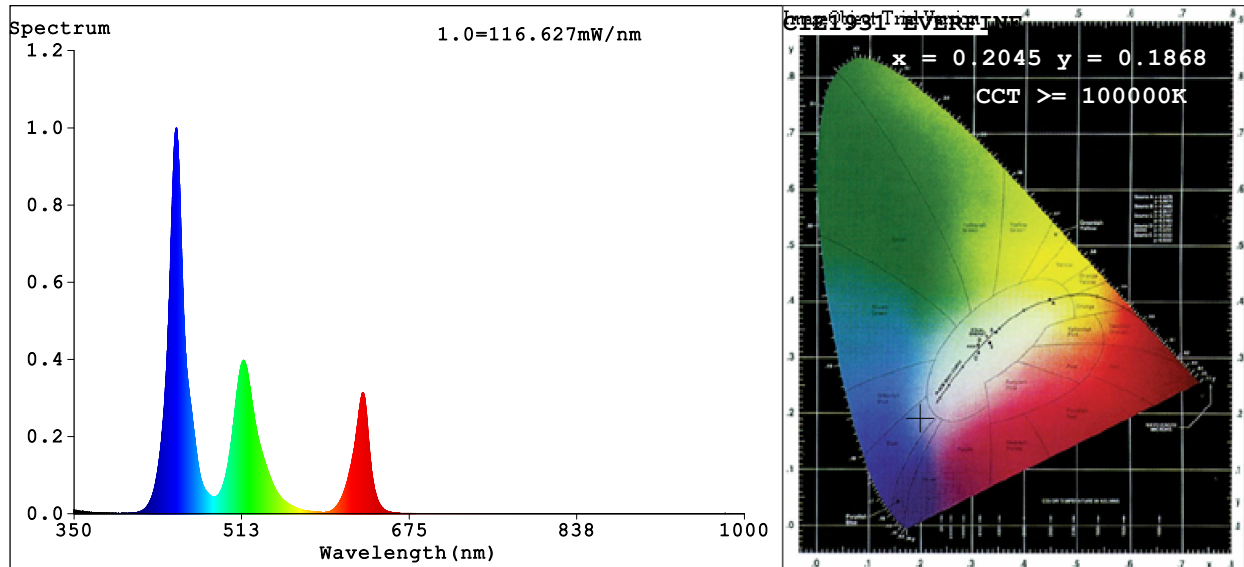
Status: Integral T = 41 ms Ip = 46826 (71%)

GBT5702

Model:
Tester:
Temperature:Deg
Manufacturer:

Number: COB-840D-DRGB-12MM-12W-3
Date:2024-03-27 11:01:56
Humidity:%
Remarks:IP20/1M

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.2045$ $y=0.1868$ $u'=0.1693$ $v'=0.3479$
CCT=100000K (Duv=-0.0359) Dominant WL:Ld =474.2nm WL:Lc = --nm Purity=58.2%
Ratio:R=16.6% G=72.9% B=10.5% Peak WL:Lp=449.2nm FWHM=15.1nm
Render Index:Ra=68.6 AvgR=59.8 TM30:Rf=55 Rg=129

R1 =63 R2 =82 R3 =82 R4 =58 R5 =68 R6 =70 R7 =82
R8 =44 R9 =0 R10=44 R11=27 R12=80 R13=63 R14=85 R15=49

Photo Parameters:

Flux = 499.0 lm Eff. : 46.50 lm/W Fe = 4.520 W

Electrical parameters:

V = 23.998 V I = 0.4473 A P = 10.73 W PF = 1.000

LEVEL:OUT WHITE:OUT

Status: Integral T = 41 ms Ip = 44563 (68%)

GBT5702

Model:
Tester:
Temperature:Deg
Manufacturer:

Number: COB-840D-DRGB-12MM-12W-4
Date:2024-03-27 11:02:04
Humidity:%
Remarks:IP20/1M