

Unlike pixel strip, DM512 LED Ribbon is a intelligent LED Ribbon that operates based on the DMX512 protocol, which can be controled directly by DMX512 protocol controller. For a DMX512 LED ribbon, comes with asynchronous serial control, and for normal pixel LED ribbon is synchronous serial control way. For a DMX512 led ribbon comes with A, B parallel signal transmission, which the signal can be breakpoints continue to transmit, no matter how many points on this line are bad, the rest will work normally. For the UCS512H4L comes with differential parallel connection, which support max. 4096 channels. Further more, for UCS512H4L IC with built-in patented S-AI anti-jamming module greatly enhances the anti-jamming ability, signal has a stronger anti-interference ability. The refresh rate of the IC up to 32KHz and with a high grey levels of 65536, which can improves the shooting effect significantly, and makes the light without flicker under a camera. The strip can be widely used for entertainment, stage, live performance like 3D effects and TV shows, Studio, Film shooting etc.

24V



24V TECHNICAL SPECIFICATIONS, 24VDC

Product Name: High Frequency UCS512H4L RGB DMX512 Flex LED Ribbon

Product Code: GLUA24CV012L0300BI08W160C3UCS512H4L

Part Number: GLU-S2L0300BI160-24V

LED Qty./M: 160LEDs

Color: Bi-color

PCB Color: White/Black available

Working Voltage: 24 VDC

CC / CV: Constant Current

Max. Current per meter: 0.576A

Max. Power per meter: 13.824W

Current for each color per meter: T(WW)/D(W) 0.288A

Power for each color per meter: T(WW)/D(W) 6.912W

CCT Whites: 2000K-10000K(Typ.2800K for Tungsten, 5600K or 6500K for Daylight)

CRI Whites: 95+

R1-R15: 90+

TLCI: 95+

LED(IC) Type: 2835SMD with External IC UCS512H4L

View Angle: 120°

Lumen(@full) per Meter: 2135

IC Qty./meter: 8

Pixels Qty./m: 8

Control Protocol: DMX512(1990)

Signal Transmission Speed: 200Kbps -750Kbps

Port refresh rate: 250Hz 4KHz 8KHz 32KHz

Default Port refresh rate : 32KHz

Grey Levels: 65536(with gamma 2.2 correction)

Bit Levels: 16bit

Cuttable or not: Yes

Cuttable Segment per meter: 8

LEDs per Cut Segment: 20pcs

IC per Cut Segment: 1pcs

Mini Cuttable Segment: 125mm(4.92in.)

Max. Length: 5000mm(196.85in./16.4ft)(UL/CUL, CE Standard)

Total LEDs per Roll: 800pcs(UL/CUL,CE Standard)

Total IC per Roll: 40(UL/CUL,CE Standard)

PCB Width: 12mm(0.47 in.)

Copper Thickness: 2oz(1oz+1oz)

Strip overall Thickness: 2mm(0.078 in.)

LED Specing:12.5mm(0.49in.) Center to Center

Connector: 5 pin SM Connecting Wire(Female Input/Male Output for standard), XLR 3Pin/ 5Pin connector available for choice

Mounting: 3M 9080HL(Others optional)

Weight: 0.146kg(0.32lb) include lead wire without backadhesive

Operation Temperature: -20° C to +50° C

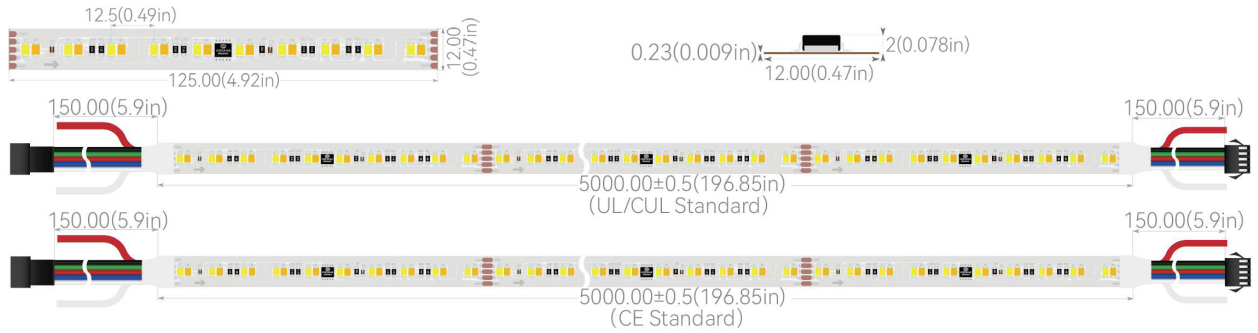
LED Lifetime: 50,000 Hrs

IP Grade: IP20/IP65/IP67/IP68

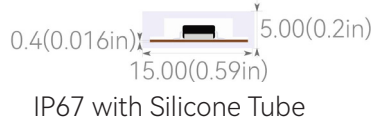
Certification: UL/CUL(US/Canada),CE Compliant (Europe)

DIMENSION

24V

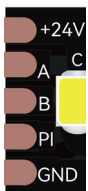


Dimension of different protection type



Installation and Wiring Diagram

Strip mark



+24V: Connect to power supply DC+

A: Connect to controller DMX+ (A)

B: Connect to controller DMX+ (B)

PI: Address writing

GND: Connect to power supply GND & controller GND



+24V: Connect to power supply DC+

A: Connect to controller DMX+ (A)

B: Connect to controller DMX+ (B)

PI: Address writing

GND: Connect to power supply GND & controller GND



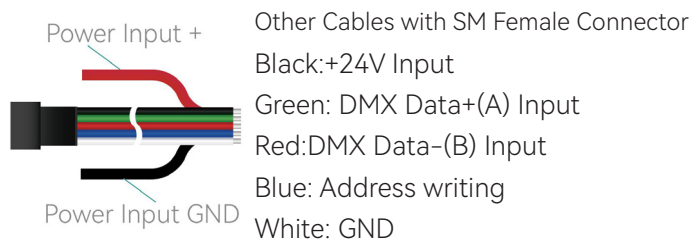
Signal transmission Direction

The wire A is for DMX+(A), B is for DMX+(B), PI is for address writing in, and PO is for address writing out. The arrow stands for the DMX signal transmission direction. Please pay attention to the direction while connection.

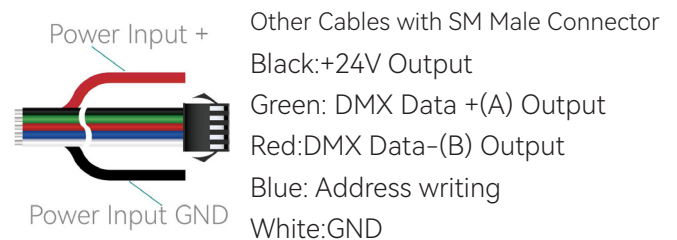
Cable with SM Connector

There are 7 wires in both Input and output side, 5PIN SM connector with 5 wire, (1 black, 1 green, 1 red, 1 blue and 1 white), with 1 red wire and 1 black wire additional. The 5PIN Female SM connector wire is for input end, and 5PIN male connector wire is for output end. The other 2 wire red and black cable are for supplementary power supply using. The wire function of different color is as below:

Input end

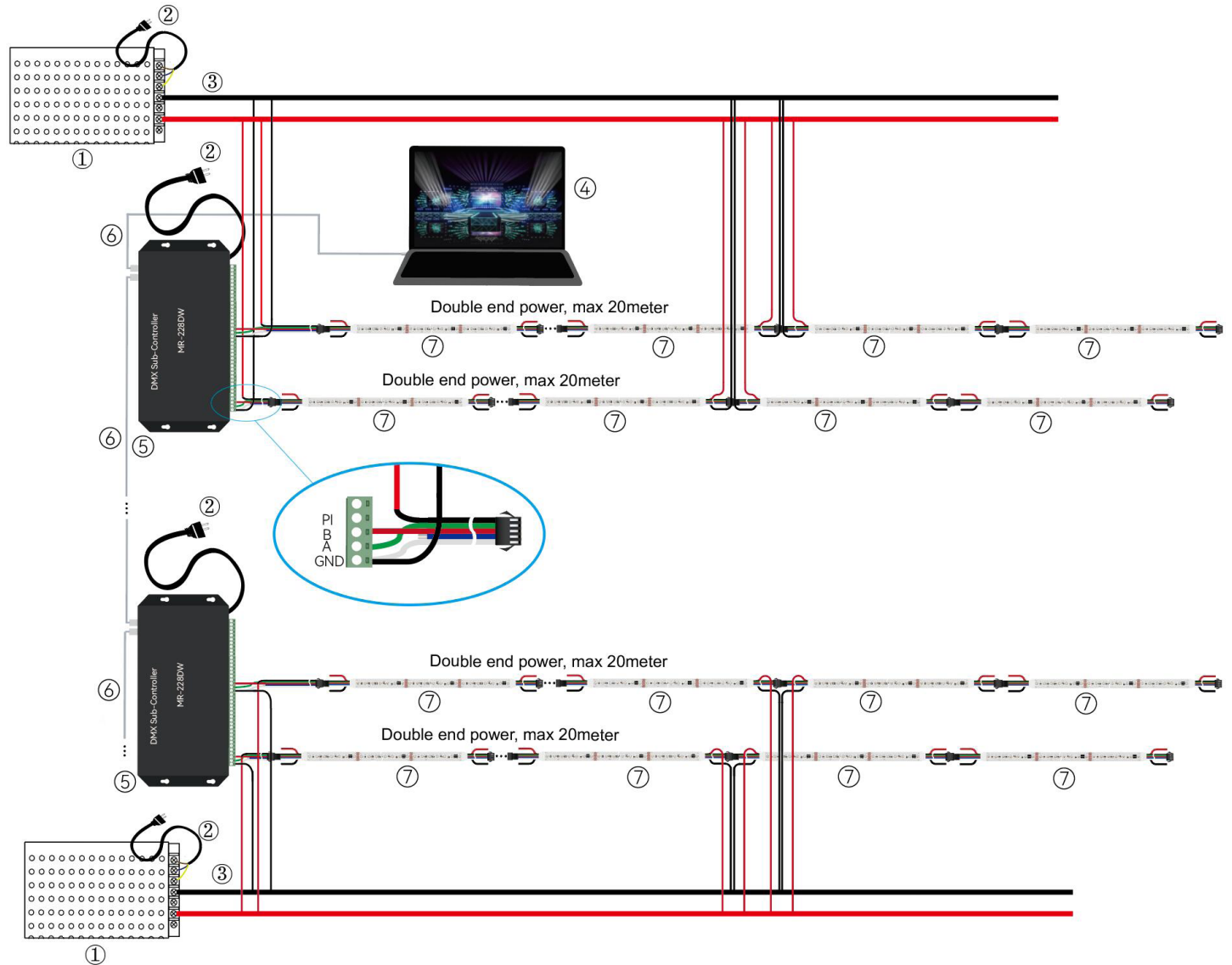


Output end



Wiring Diagram

(1) Online mode(Connected with computer)

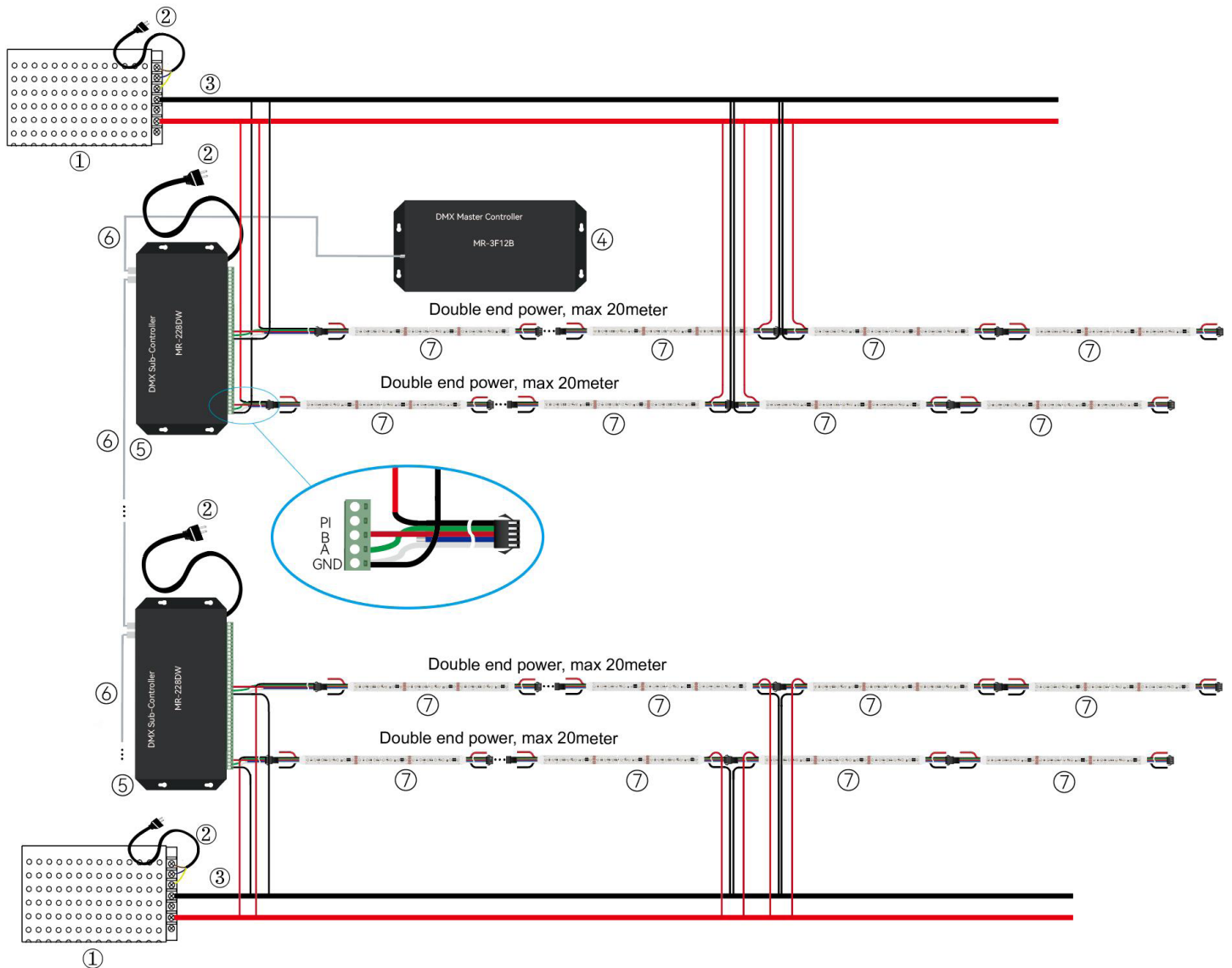


- ① Power Supply Input: AC110-230V Output:DC24V
- ② Power Cord, connected to AC110-230V
- ③ Output Wire(Red+,black-) DC24V
- ④ Computer
- ⑤ DMX Sub Controller
- ⑥ RJ45 DMX Signal Cable
- ⑦ DMX512 Flex Ribbon

Note:

1. The GND for DMX512 Flex Ribbon must connected to the GND of Controller.
2. Address wire mustn't connected to the controller.

(2) Offline mode(Connected with DMX Master Controller)

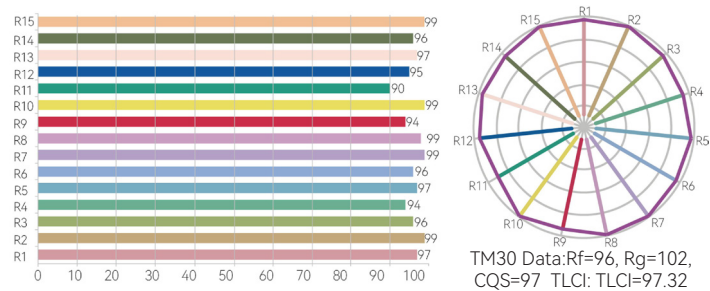


- ① Power Supply Input: AC110-230V Output:DC24V
- ② Power Cord, connected to AC110-230V
- ③ Output Wire(Red+,black-) DC24V
- ④ Computer
- ⑤ DMX Sub Controller
- ⑥ RJ45 DMX Signal Cable
- ⑦ DMX512 Flex Ribbon

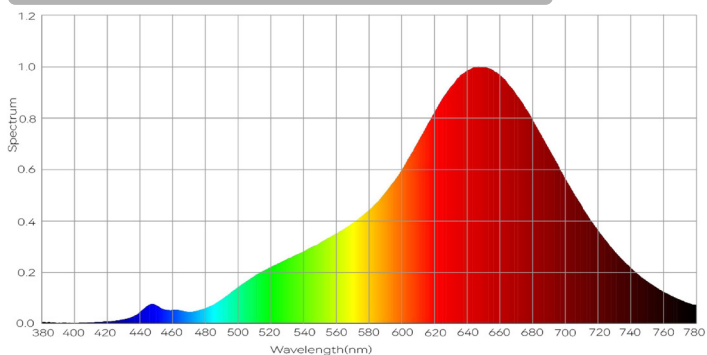
Note:

- 1. The GND for DMX512 Flex Ribbon must connected to the GND of Controller.
- 2. Address wire mustn't connected to the controller.

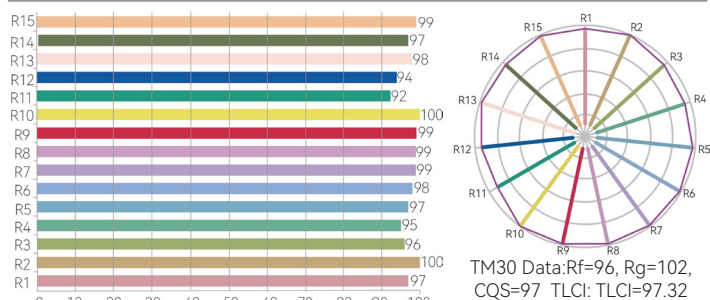
2835 Tungsten & Daylight SPECTRUM & WAVELENGTH



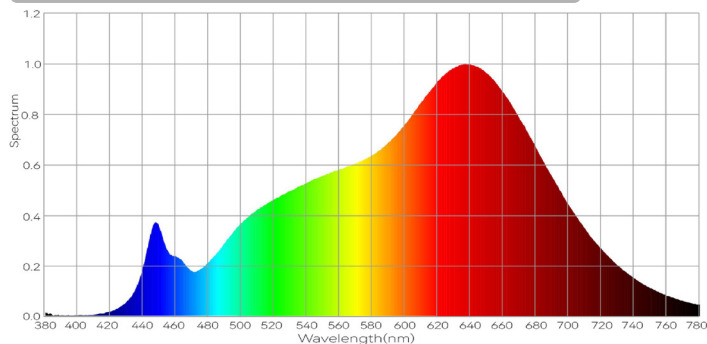
2835 FLAME COLOR RENDERING INDEX CCT 2008K Ra=97.1



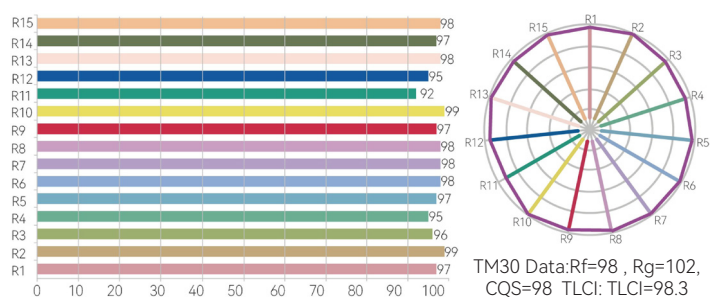
2835 FLAME COLOR SPECTRUM & WAVELENGTH CCT 2008K Ra=97.1



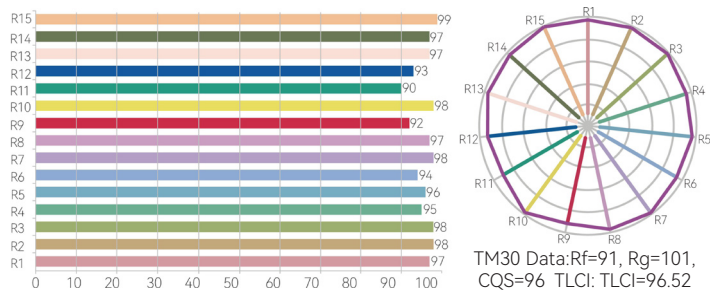
2835 TUNGSTEN COLOR RENDERING INDEX CCT 2766K Ra=97.3



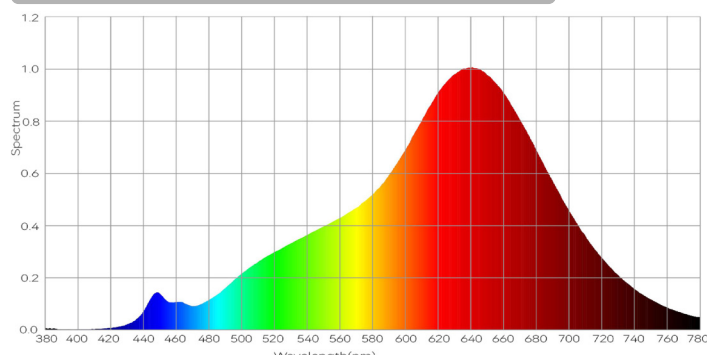
2835 TUNGSTEN COLOR SPECTRUM & WAVELENGTH CCT 2766K Ra=97.3



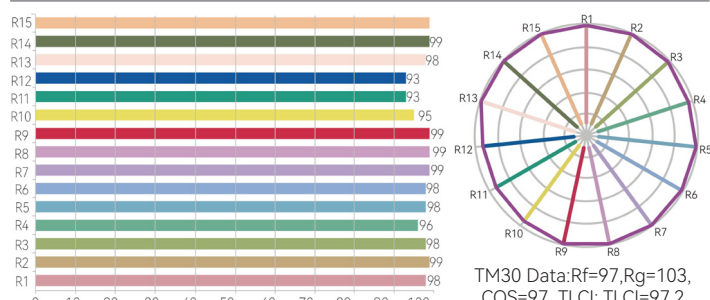
2835 TUNGSTEN COLOR RENDERING INDEX CCT 3152K Ra=97.4



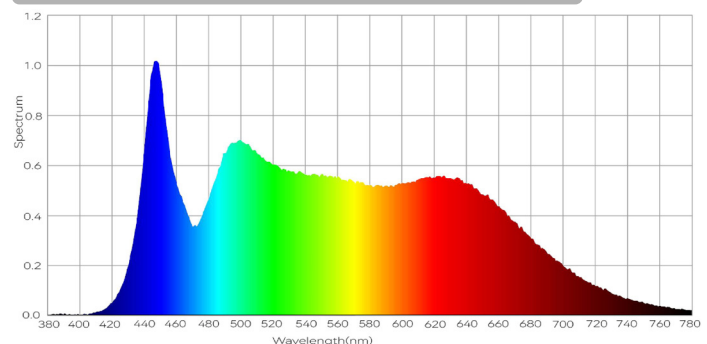
2835 FLAME COLOR RENDERING INDEX CCT 2262K Ra=96.6



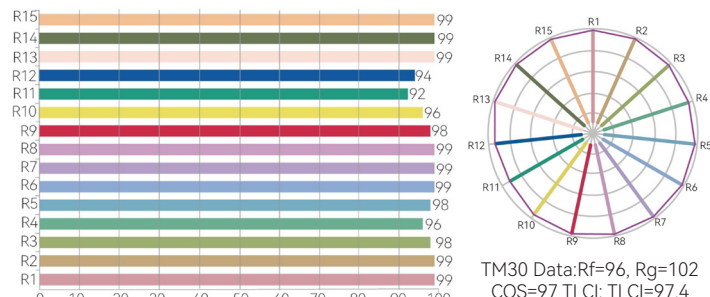
2835 FLAME COLOR SPECTRUM & WAVELENGTH CCT 2262K Ra=96.6



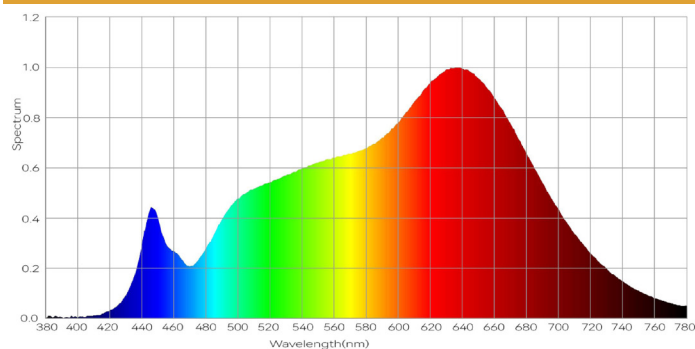
2835 DAYLIGHT COLOR RENDERING INDEX CCT 5653K Ra=98.3



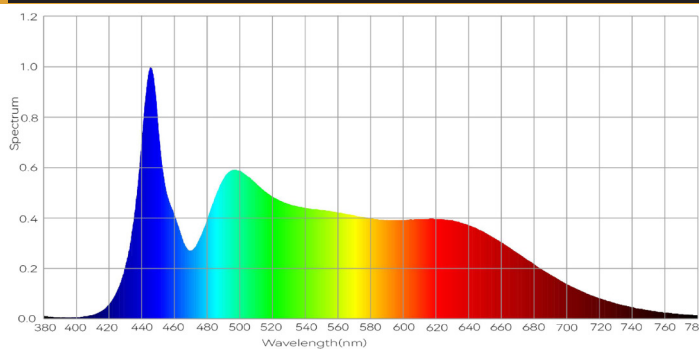
2835 DAYLIGHT COLOR SPECTRUM & WAVELENGTH CCT 5653K Ra=98.3



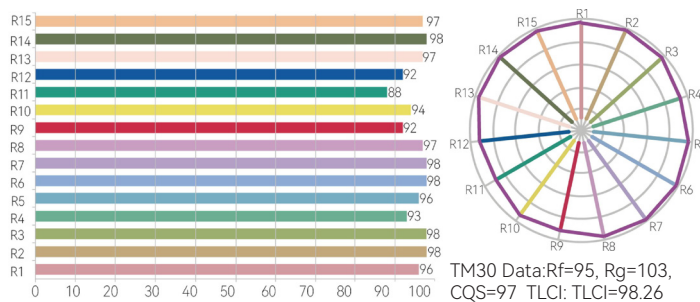
2835 DAYLIGHT COLOR RENDERING INDEX CCT 6498K Ra=98.4



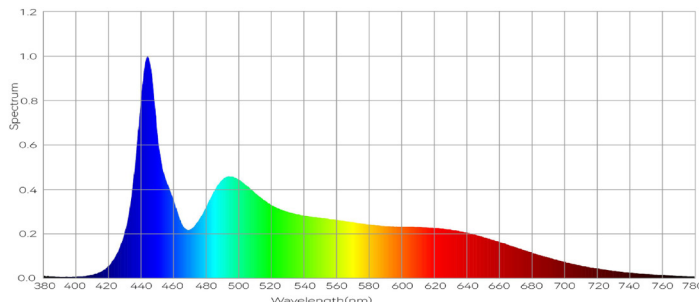
2835 TUNGSTEN COLOR SPECTRUM & WAVELENGTH CCT 3152K Ra=97.4



2835 DAYLIGHT COLOR SPECTRUM & WAVELENGTH CCT 6498K Ra=98.4



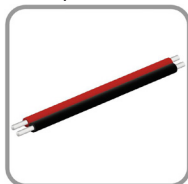
2835 BLUE DAYLIGHT COLOR RENDERING INDEX CCT 10518K Ra=96.9



2835 BLUE DAYLIGHT COLOR SPECTRUM & WAVELENGTH CCT 10518K Ra=96.9

Accessories

Jumper Wire



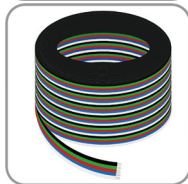
18AWG 2Pin Jumper Wire Black/Red in 15cm
GLU-W2P-15

20AWG 2Pin Jumper Wire Black/Red in 15cm
GLU-W2P-15



18AWG 2Pin Jumper Wire Black/Red in 100m
GLU-W2P-10000

20AWG 2Pin Jumper Wire Black/Red in 100m
GLU-W2P-10000



18AWG 5Pin Jumper Wire Black/Green/Red/Blue/White in 100m
GLU-W5P-10000

20AWG 2Pin Jumper Wire Black/Green/Red/Blue/White in 100m
GLU-W5P-10000

DMX Addresser

DMX Addresser DC6-24V 6144 Channel MR-WT33

DMX Master Controller

DMX Master Controller AC100V-240V, 450000 Channels
MR-3F12B

Touch Video DMX Master Controller AC100V-240V, 450000 Channels:
MR-CM12BK

Master/Sub Controller DC5V or DC12-24V 4 ports output K-4000CK

Master/Sub Controller DC5V or DC12-24V 8 ports output K-8000C

DMX Sub Controller

DMX Sub Controller AC100V-240V, 8 Port output MR-228DW

SM Connector wire



20AWG 5Pin SM Female connecting cable in 15cm
GLU-W5P-15SMF

Other Length available for customized



20AWG 5Pin SM Male connecting cable in 15cm
GLU-W5P-15SMM

Other Length available for customized

Power Supplier

Meanwell LRS Series LRS-350-12/24

Meanwell LRS Series HLG-240H-12/24A, HLG-320H-12/24A

Adaptor

Meanwell GTS Series GST280A12/24-C6P

Meanwell GTS Series GST360A12/24-C6P

More Accessories, please contact sales man for catalogue.