Description:

RX-TP10058 200W Toplighting LED Grow Module, New patent design product with unique lens, Different LED chips in one lens, Concentrating Light efficiently and More uniform spectral radiation, directional light ,higher light utilization efficiency, more efficient comparing with common grow lights. Silicone Potted waterproof, more reliable. Suitable for various kinds of plant cultivation（dedicated light recipes）, Applicable to vegetable cultivation, flower cultivation, ornamental plant cultivation, succulent plant cultivation, medicinal plant cultivation.

1. PPFD up to 1450μmol @0.2m，Hanging installation of greenhouses and basement plant growth lights
2. Meanwell power supply for longer life and reliability
3. Function mode option DM: with built-in dimmer. (Can be customized external to adjust the light, use PWM, 0-10V dimming, need to buy additional)
4. Function mode option UV: With a separately controlled UV spectrum switch, you can turn on the UV 395nm spectrum at the appropriate time to stimulate the plant's stress response and produce useful pharmaceutical ingredients.
5. Function mode option UV-DM: UV spectrum switch, additional dimming potentiometer
6. Preferred plant-specific spectra, multiple light-recipe to meet different plant requirements
7. Discard the traditional fan cooling solution (as a result of fan lights affect the life span of life)
8. Input: AC100~305V PF >0.9 Power: 200W
9. Meet the safety requirements around the world, CE RoHS FCC

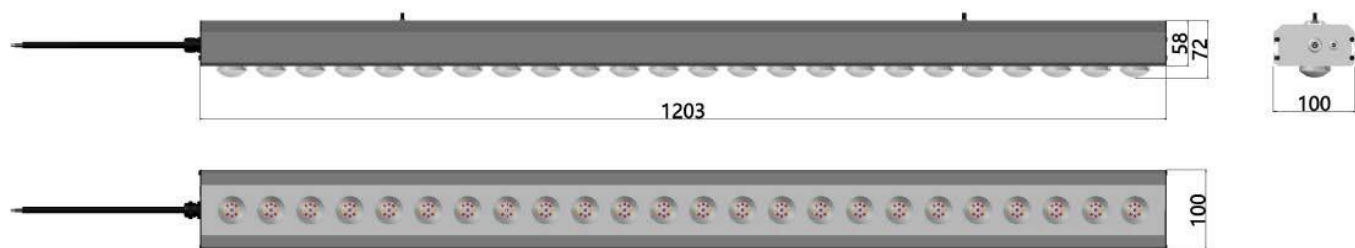| Model	Dimension LxWxH	Spectral Wavelength	Photon PPFD μmol/m²/s	Luminous flux Radiation Power	Power Input	Comment
RX-TP10058-A	1203x100x72mm	V2	1173μmol @0.2m 75874Lx 493μmol @0.5m 31948Lx 226μmol @1m 14529Lx	Flux 26479Lm PPF:418umol/s PAR: 87953mW	200W	Waterproof IP65 2.1umol/J CRI Ra90 vegetative growth
RX-TP10058-DM	1203x100x72mm	V2	1391μmol @0.2m 90108Lx 530μmol @0.5m 34474Lx 219μmol @1m 14170Lx	Flux 26479Lm PPF:418umol/s PAR: 87953mW	200W	Dimming Waterproof IP64 107W Test PPFD CRI Ra90 vegetative growth
RX-TP10058-UV	1203x100x72mm	V2 + UV	1452μmol @0.2m 92548Lx 545μmol @0.5m 34724Lx 235μmol @1m 14978Lx	Flux 25808Lm PPF:406umol/s PAR: 85004mW	200W	Add UV, Switch control Waterproof IP64 UV OFF Test Data CRI Ra90 vegetative growth
RX-TP10058-UV-DM	1203x100x72mm	V2 + UV	1432μmol @0.2m 91485Lx 545μmol @0.5m 34650Lx 232μmol @1m 14752Lx	Flux 25636Lm PPF:404umol/s PAR: 84660mW	200W	Add UV, Switch control Dimming Waterproof IP64 CRI Ra90 vegetative growth

Surface temperature rise Tc 30K , Operating temperature: -30°C ~ 40°C , Lifespan: 35,000 hours (Note: Ta 25°C)

Tolerance range for optical and electrical data: ±10 %. Light emitting angle: 60 °
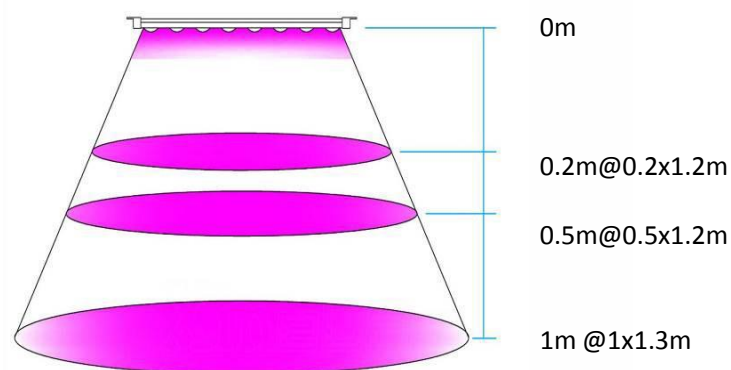
Recommended irradiation distance 0.2 ~2m

The above data is for reference only!

- Dimension:

UNIT：mm

- 60D Depth distance & Coverage:

0m

0.2m@0.2x1.2m

0.5m@0.5x1.2m

1m @1x1.3m

- Optional 90D Depth distance & Coverage:


0m

0.2m@0.3x1.2m

0.5m@0.75x1.2m

1m @1.35x1.3m
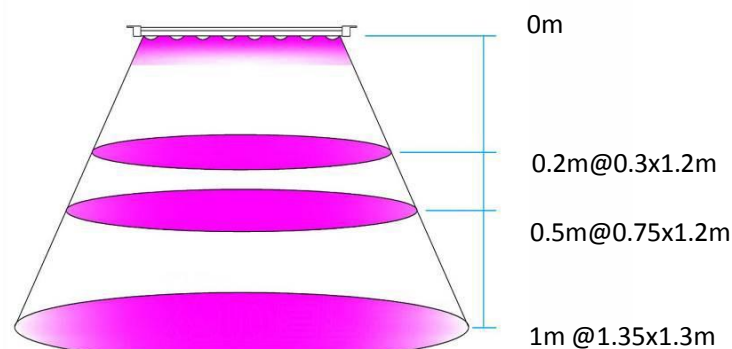
Note: At 90 degrees, the coverage area of plant lamp is larger than that of 60 degrees, and the irradiation intensity is reduced by about 30%.

Koray ®

Toplighting LED Grow Module,Suitable for plant greenhouses to fill light,indoor medicinal planting
MODEL: RX-TP10058 series   www.koraylight.com   www.xinelam.com

● Unique lens structure - high efficiency concentrating, uniform spectral radiation, directional illumination, higher light utilization, preferred plant light formula, suitable for most plant growth, UV mode option, special add UV switch, can be needed Turn on UV spectrum illumination. Stimulates the plant's stress response and produces more medicinal ingredients.

Different LED in one lens More uniform Light
Concentrating Light efficiently higher light utilization efficiency
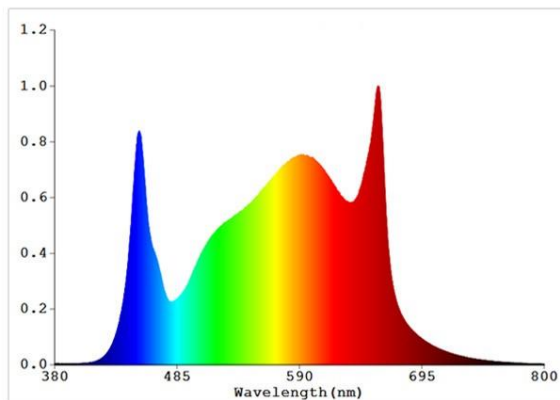
Effective light recipe
Suitable for most plant growth
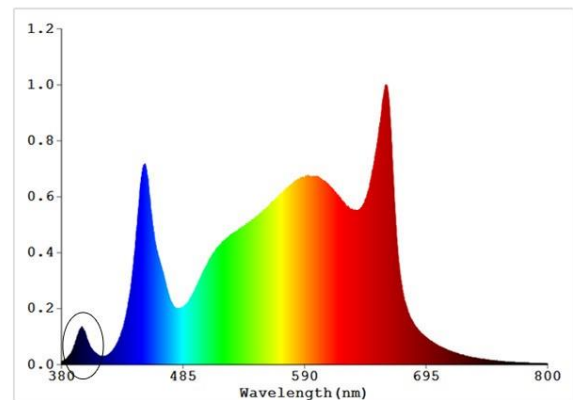
Independent UV switch (UV type)
Stimulate plant stress response as needed

● Model type option description - RX-TP10058-A
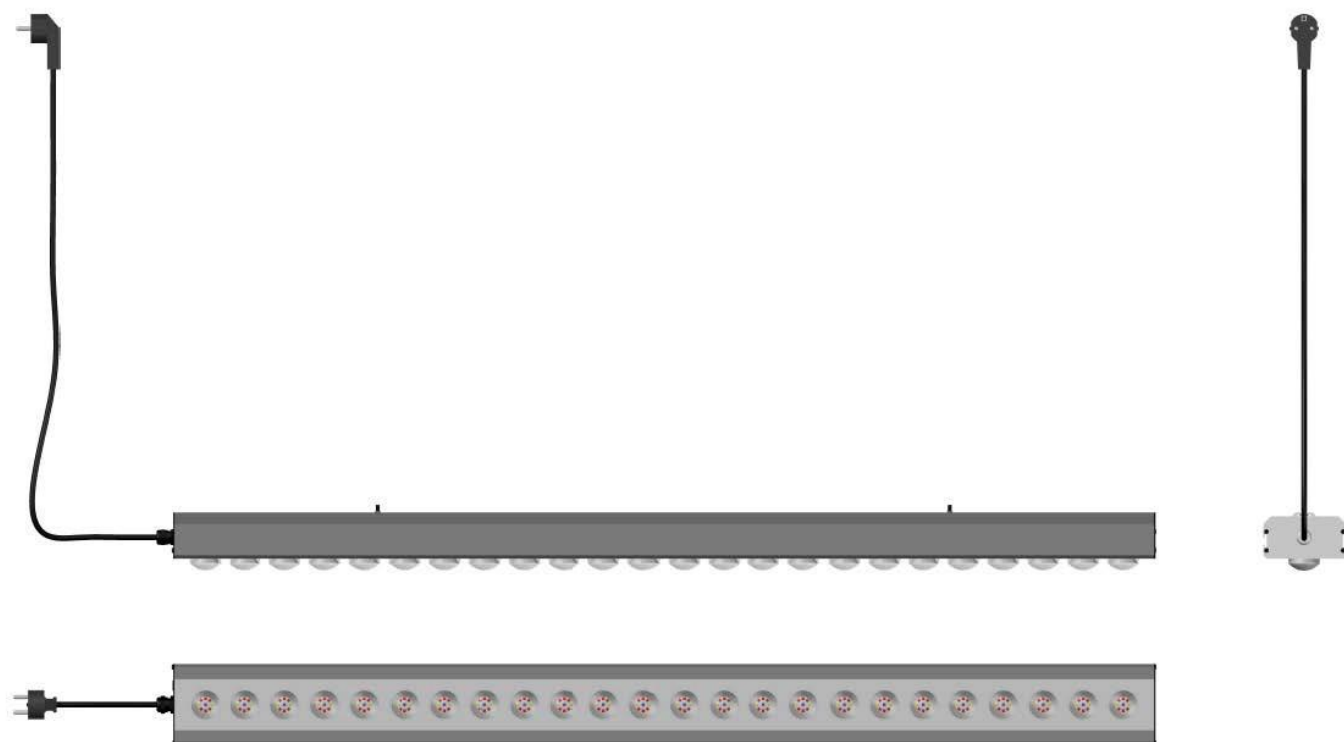
RX-TP10058-A: Standard type, 1.5 m 3 plug wire; plug wire can be selected: US regulations, European regulations, British regulations, Australian regulations.

2018

● Model type option description - RX-TP10058-DM

AC Plug

Dimming knob

Dimming knob
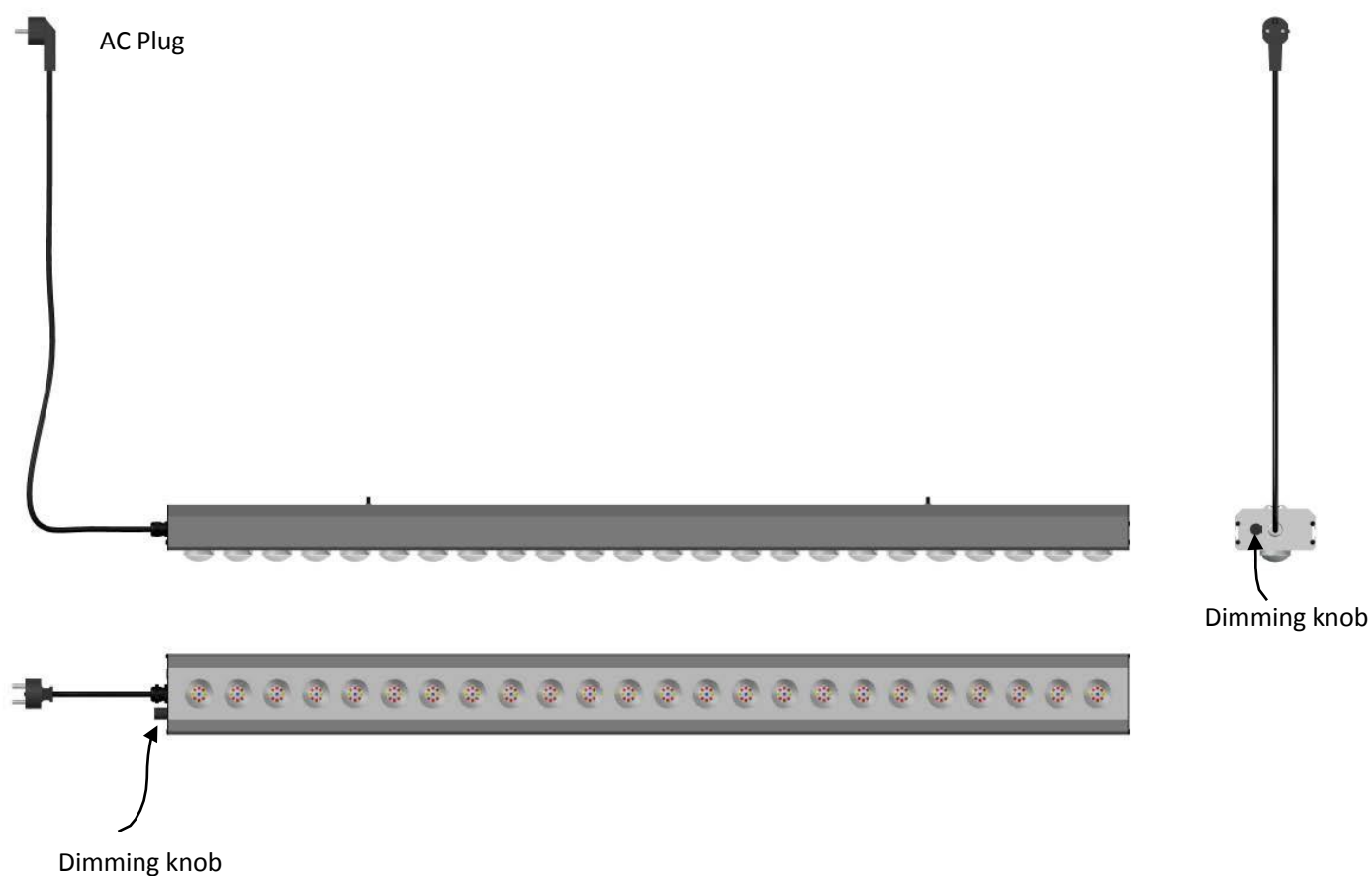
RX-TP10058-DM: The standard type adds dimmer, which can reduce the brightness. The maximum power is 210W, 1.5m 3-pin plug wire; the plug wire can be selected: US regulations, European regulations, British regulations, Australian regulations.

● Model type option description‐RX-TP10058-UV

UV switch

UV switch

RX-TP10058-UV: The standard type adds a separate UV spectrum, which can turn on UV as needed, stimulate the plant's stress response, generate more medicinal ingredients, 1.5 m 3-pin plug wire; plug wire can choose: US regulations, European regulations, British regulations, Australian regulations.

● Model type option description - RX-TP10058-UV-DM

UV switch

Dimming knob   UV switch

Dimming knob
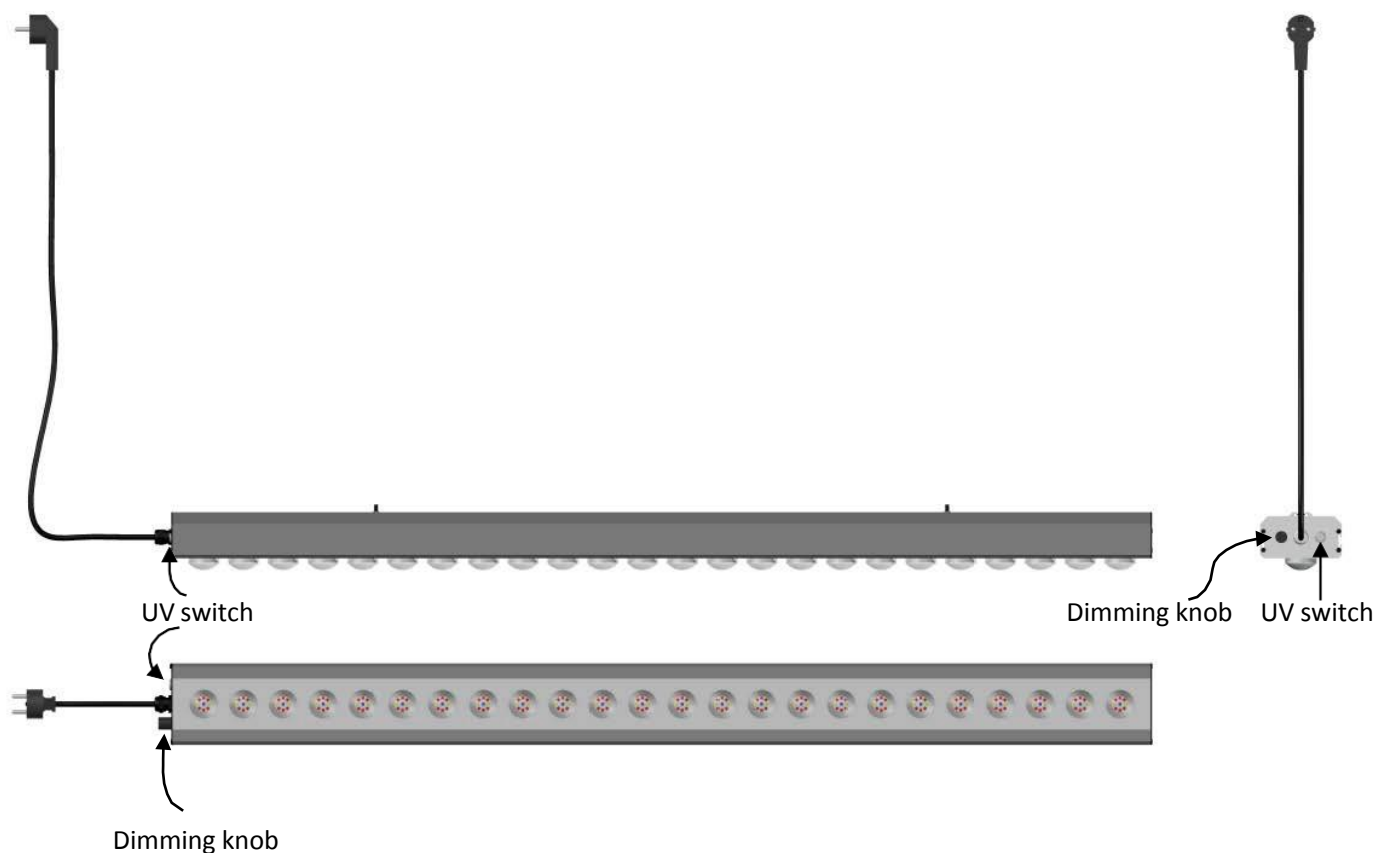
RX-TP10058-UV-DM: The standard type adds a separate UV spectrum and increases the dimming function. It can turn on UV as needed to stimulate the plant's stress response and produce more medicinal ingredient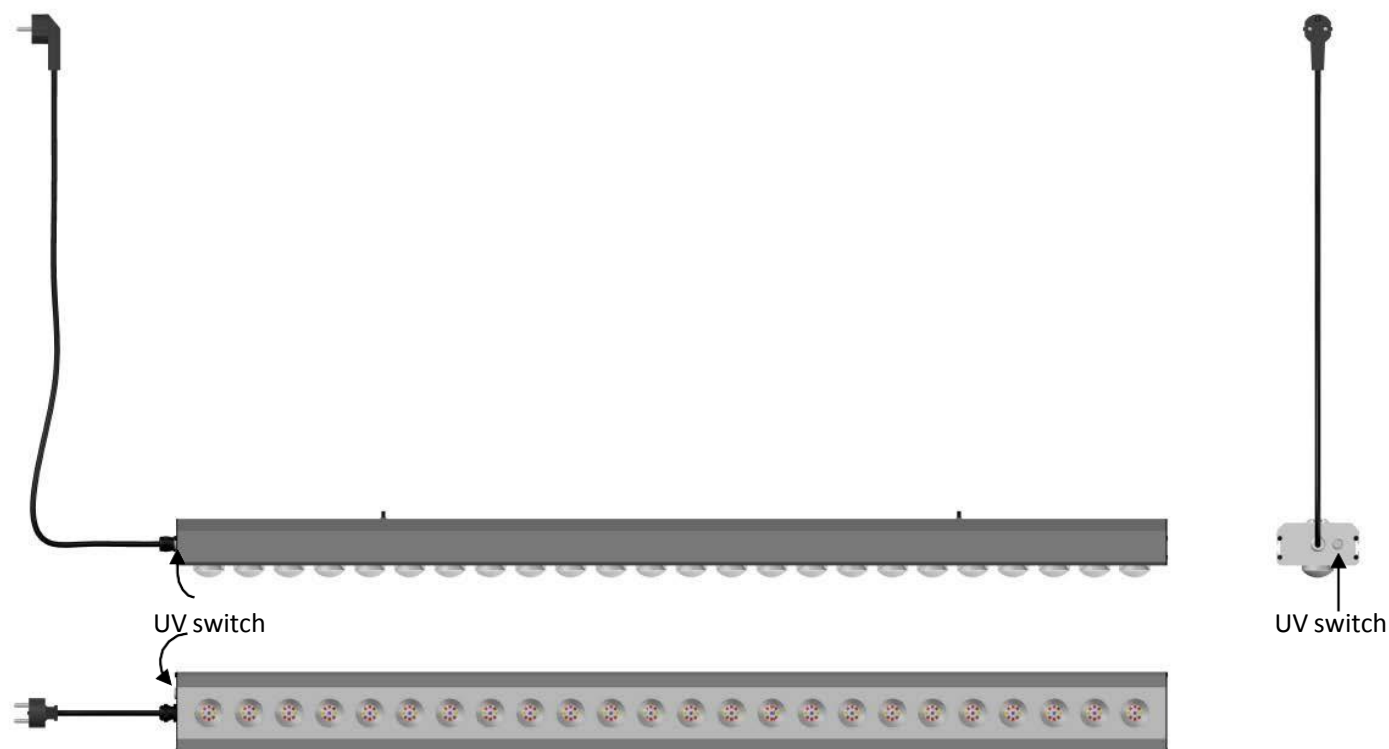s. Increase the dimming setting, you can turn down the brightness, the maximum power is 210W, 1.5 m 3 plug wire; plug wire can choose: US regulations, European regulations, British regulations, Australian regulations.
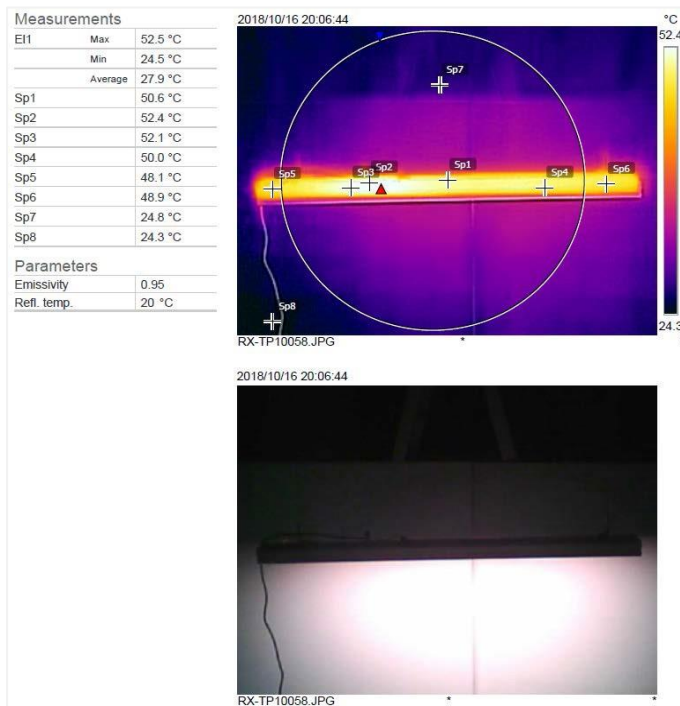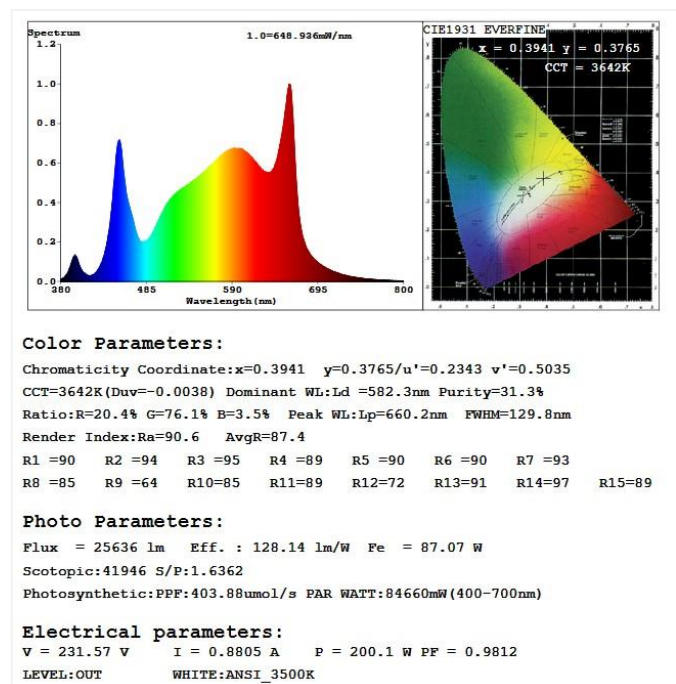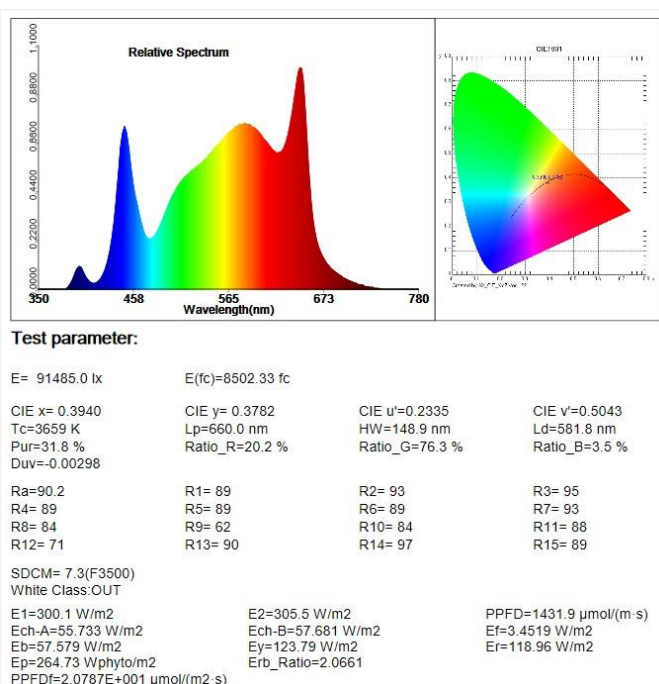
● Testing report

Color Parameters:

Chromaticity Coordinate:x=0.3843 y=0.3663/u'=0.2319 v'=0.4975
CCT=3812K(Duv=-0.0061) Dominant WL:Ld =583.5nm Purity=25.2%
Ratio:R=20.1% G=75.9% B=4.0% Peak WL:Lp=662.2nm FWHM=147.7nm
Render Index:Ra=91.1 AvgR=88.2
R1 =91   R2 =96   R3 =96   R4 =89   R5 =91   R6 =91   R7 =92
R8 =84   R9 =63   R10=89   R11=88   R12=72   R13=93   R14=98   R15=91

Photo Parameters:

Flux = 26479 lm   Eff. : 132.02 lm/W Fe = 89.70 W
Scotopic:45643 S/P:1.7238
Photosynthetic:PPF:417.69umol/s PAR WATT:87953mW(400-700nm)

Electrical parameters:

V = 231.40 V   I = 0.8845 A   P = 200.6 W PF = 0.9800
LEVEL:OUT   WHITE:OUT

RX-TP10058-V2 PPF PAR Test

RX-TP10058.JPG

RX-TP10058.JPG

Surface temperature Test

Color Parameters:

Chromaticity Coordinate:x=0.3941 y=0.3765/u'=0.2343 v'=0.5035
CCT=3642K(Duv=-0.0038) Dominant WL:Ld =582.3nm Purity=31.3%
Ratio:R=20.4% G=76.1% B=3.5% Peak WL:Lp=660.2nm FWHM=129.8nm
Render Index:Ra=90.6 AvgR=87.4
R1 =90   R2 =94   R3 =95   R4 =89   R5 =90   R6 =90   R7 =93
R8 =85   R9 =64   R10=85   R11=89   R12=72   R13=91   R14=97   R15=89

Photo Parameters:

Flux = 25636 lm   Eff. : 128.14 lm/W Fe = 87.07 W
Scotopic:41946 S/P:1.6362
Photosynthetic:PPF:403.88umol/s PAR WATT:84660mW(400-700nm)

Electrical parameters:

V = 231.57 V   I = 0.8805 A   P = 200.1 W PF = 0.9812
LEVEL:OUT   WHITE:ANSI_3500K

403.88µmol/m²/s RX-TP10058-UV PPF Test

Test parameter:

E= 91485.0 lx   E(fc)=8502.33 fc

CIE x= 0.3940	CIE y= 0.3782	CIE u'=0.2335	CIE v'=0.5043
Tc=3659 K	Lp=660.0 nm	HW=148.9 nm	Ld=581.8 nm
Pur=31.8 %	Ratio_R=20.2 %	Ratio_G=76.3 %	Ratio_B=3.5 %
Duv=-0.00298			

Ra=90.2	R1= 89	R2= 93	R3= 95
R4= 89	R5= 89	R6= 89	R7= 93
R8= 84	R9= 62	R10= 84	R11= 88
R12= 71	R13= 90	R14= 97	R15= 89

SDCM= 7.3(F3500)
White Class:OUT

E1=300.1 W/m2	E2=305.5 W/m2	PPFD=1431.9 µmol/(m·s)
Ech-A=55.733 W/m2	Ech-B=57.681 W/m2	Ef=3.4519 W/m2
Eb=57.579 W/m2	Ey=123.79 W/m2	Er=118.96 W/m2
Ep=264.73 Wphyto/m2	Erb_Ratio=2.0661	
PPFDf=2.0787E+001 µmol/(m2·s)		

1431.9µmol/m²/s RX-TP10058-UV 0.2m PPFD Test

● Packing List   Package includes the following items

Koray LED grow light bar 1pcs 1pcs

1.5m Steel cable 2pcs
Side Exit Grippers 2pcs
Double hole wire rope lock 2pcs
L-type hex wrench 1pcs
Suspension bolts 2pcs

● Suspension installation

1.   The wire rope passes through the beam and is fixed by the Double hole wire rope lock (Cable Looping Gripper)

2.   Rotate Fixed Side Exit Grippers to cable suspension bolts，Wire rope inserted into Side Exit Grippers

3.   Hanging installation completed

● Electronic installation instructions

Note: Please select the appropriate power plug when ordering, please contact koray.

2018