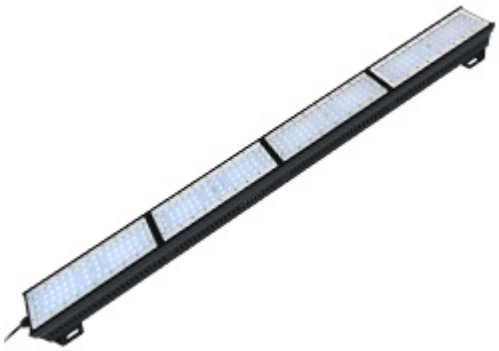
Toplighting LED Grow Module - Economical and efficient greenhouse plant light

MODEL: KR-TP200W www.koraylight.com www.xinelam.com

Description:

KR-TP200W Toplighting LED Grow Module - Economical and efficient greenhouse plant light, High-efficiency concentration, uniform spectral radiation, directional irradiation, higher light utilization, waterproof rating IP65, 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. Comply with the safety requirements around the world
2. Horticulture LED toplighting combined with our dedicated light recipes, open up new opportunities for every greenhouse grower to increase their quality and yields and move to year-round production.
3. Suitable for all kinds of greenhouse, ornamental plants, herbs, vegetables and herbs, nursery, cut flowers, strawberries, tomato cucumber, etc.
4. Improve shelf life, color, shape, and taste, Grow with more control over your climate
5. Discard the traditional fan cooling solution (as a result of fan lights affect the life span of life)
6. Low temperature rise, long life, high reliability!
7. Built-in Meanwell long-life power supply
8. Waterproof IP65
9. CE RoHS FCC

Model	Dimension	LED QTY Spectral wavelength	Photon PPFD μmol.m-²s-¹	Luminous flux Radiation Power	Power Input 100~240V AC	Comment
KR-TP200W-K6	L120cm W10cm H90cm	K6 240pcs	436μmol @0.5m 21279Lx 201μmol @1m 9784Lx 75μmol @2m 3647Lx	Flux 8900Lm Fe 42W	200W PF>0.9	Universal Plant Light Ra 84 2600K
KR-TP200W-K1	L120cm W10cm H90cm	K1 240pcs	368μmol @0.5m 9505Lx 160μmol @1m 4141Lx 56μmol @2m 1456Lx	Flux 4059Lm Fe 38W	200W PF>0.9	Universal Plant Light Ra 32 1300K

Surface temperature rise Tc 29K ,

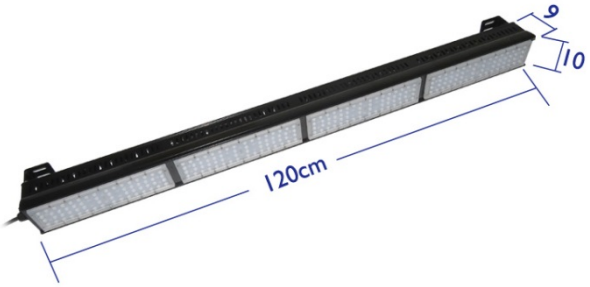
Operating temperature: -30°C ~ 40°C , Lifespan: 50,000 hrs (Note:Ta ≤ 25°C)

Tolerance range for optical and electrical data: ±10 %.

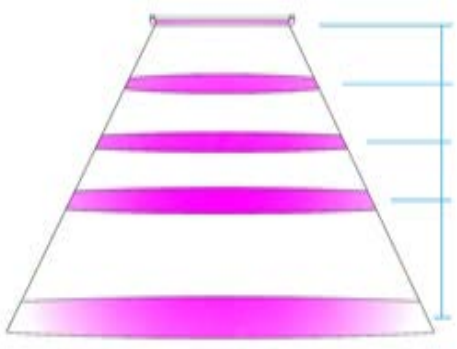
Recommended irradiation distance of 0.5 ~ 2 m, for greenhouses, basement, indoor light environment.

Customizable spectrum K1

Dimension:

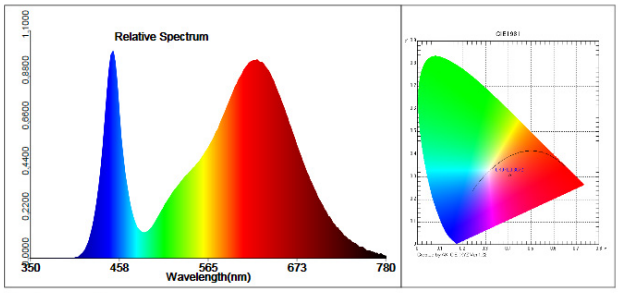


Depth distance & Coverage:



UNIT:cm

PPFD Test



Test parameter:

E= 9783.7 lx E(fc)=909.27 fc

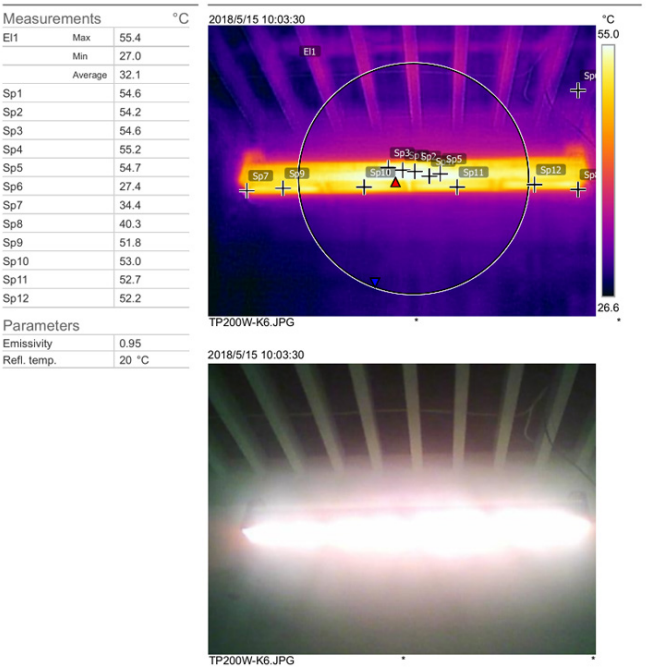
CIE x= 0.4070	CIE y= 0.3072	CIE u'=0.2772	CIE v'=0.4708
Tc=2602 K	Lp=454.0 nm	HW=25.9 nm	Ld=700.0 nm
Pur=19.2 %	Ratio_R=30.8 %	Ratio_G=65.3 %	Ratio_B=3.9 %
Duv=-0.04022			
Ra=85.2	R1= 90	R2= 83	R3= 85
R4= 88	R5= 89	R6= 74	R7= 80
R8= 92	R9= 89	R10= 71	R11= 87
R12= 48	R13= 85	R14= 95	R15= 84

SDCM=39.2(2700K/ELR)
White Class:OUT

E1=41.239 W/m2	E2=44.982 W/m2	PPFD=200.81 μmol/(m·s)
Ech-A=5.3285 W/m2	Ech-B=6.2188 W/m2	Ef=3.7544 W/m2
Eb=8.7052 W/m2	Ey=11.209 W/m2	Er=21.349 W/m2
Ep=36.805 Wphyto/m2	Erb_Ratio=2.4524	
PPFDf=2.2230E+001 μmol/(m2·s)		

201μmol @1m 9784Lx

Temperature rise test



Measurements		°C
EI1	Max	55.4
	Min	27.0
	Average	32.1
Sp1		54.6
Sp2		54.2
Sp3		54.6
Sp4		55.2
Sp5		54.7
Sp6		27.4
Sp7		34.4
Sp8		40.3
Sp9		51.8
Sp10		53.0
Sp11		52.7
Sp12		52.2

Parameters	
Emissivity	0.95
Refl. temp.	20 °C

Surface temperature rise Tc 29K

Installation Instructions

1. When open the package, please check whether the inside is including product, accessory, label, certificate quality. And please assure that the light is perfect without any damage.

2. The wires of LED Light is three-core, the standard size of the wire is 3*1mm²or3*1.5mm² and the outer diameter isΦ7~12mm, brown wire is live line, blue wire is null line, yellow& green is ground line.

3. LED Light will work when the voltage up to rated voltage, so please be sure the voltage within the requested range, or it will damage the light which can't be repaired.

4. when the electrical continuity is connected, the lead wire should be in electric insulating The way of connect wire:

Attention

1. In order to make sure the light can work safety and stability, the ground line should be connected the earth.

2. When connecting the wires please turn off the power, and check whether the wires are connected correctly. Never connect the wires in opposite way, or the power should not be turned on.

3. Please keeping the trip bolt being fastening and reliable, in case of the light fall down of looseness.

4. When finishing connect the wires, please use the insulation gummed tape to convolve the wires, confirm the insulation and solve the waterproof problem.