

**Description:** KR-GK-100W High PAR output medicinal plant UFO waterproof plant grow light, D4 Full spectrum, Range from UV to FR, High PAR output, PPF $>510\mu\text{mol}$ , 100W is equal to 1000W's similar products. ideal for medical plant growth. The D4 spectrum has been extensively tested and is 100% effective against medicinal plants, it has the biggest contribution for plants and useful for increasing the harvest. Medicinal plant specific spectrum - Suitable for grow tents and basement planting, Plant crops in a place without sunlight.



1. Basement, grow tent planting medicinal plants
2. 100W is equal to 1000W's similar products? Energy Saving  $>100\%$
3. D4 Spectrum - Dedicated to medicinal and medical plant growth
4. Meet the safety requirements around the world
5. Meanwell HBG LED Power, long life more reliable
6. Waterproof IP65, Can be used in humid environments
7. Fanless design, more reliable, longer life
8. Recommended irradiation distance of 0.5 ~ 2 m
9. Input: AC90~305V, PF  $>0.9$
10. Long life up to 50,000 hours
11. CE RoHS FCC

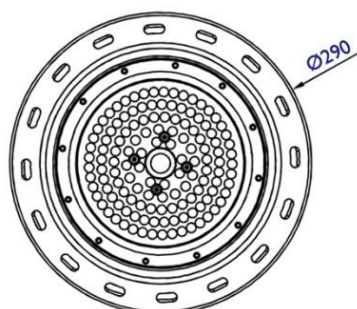
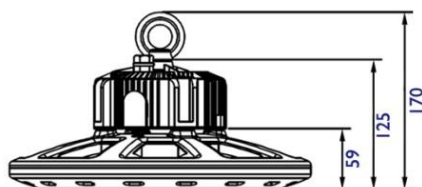
Model	Dimension	Peak Wavelength	Photon PPF $\mu\text{mol}/\text{m}^2/\text{s}$	Luminous flux Radiation Power	Power Input	Comment
KR-GK-100W-D4-60D	Ø290mm H170mm 2.5Kg	395nm 420nm 450nm 6000K 625nm 660nm 730nm	1200 $\mu\text{mol}$ @0.3m 40000Lx*	Flux 4784Lm Fe 30W	86W AC230V	Light emitting angle: 60° Suitable for higher space locations
			614 $\mu\text{mol}$ @0.5m 20156Lx			
			322 $\mu\text{mol}$ @0.7m 10470Lx			
KR-GK-100W-D4-90D			700 $\mu\text{mol}$ @0.3m 24000Lx*	Flux 4898Lm Fe 31W	86W AC230V	Light emitting angle: 90° For Plant Grow Tents
			353 $\mu\text{mol}$ @0.5m 11999Lx			
			181 $\mu\text{mol}$ @0.7m 6182Lx			

Surface temperature rise  $T_c$  48°K, Operating temperature: -30°C ~ 40°C, Lifespan: 50,000 hrs (Note:  $T_a \leq 25^\circ\text{C}$ )

Tolerance range for optical and electrical data:  $\pm 10\%$ .

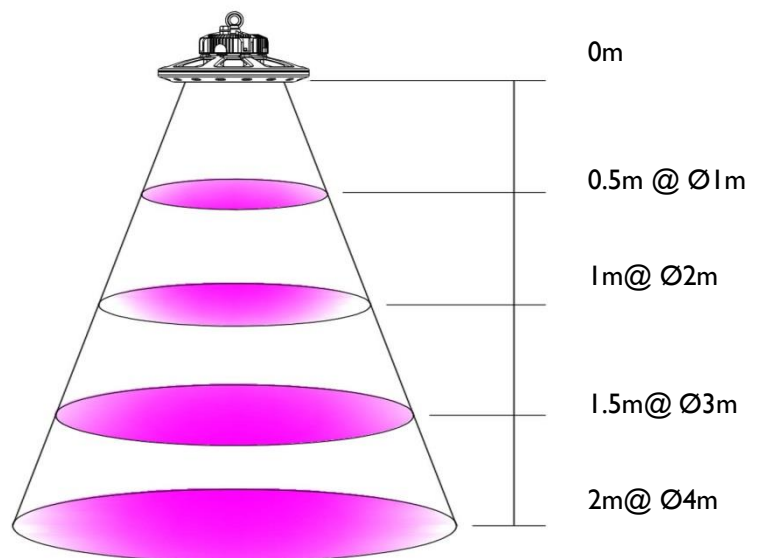
Note: 420nm and 395nm LED chips from Taiwan, Other LEDs using German brands Horticultural LED

Dimension:



Unit: mm

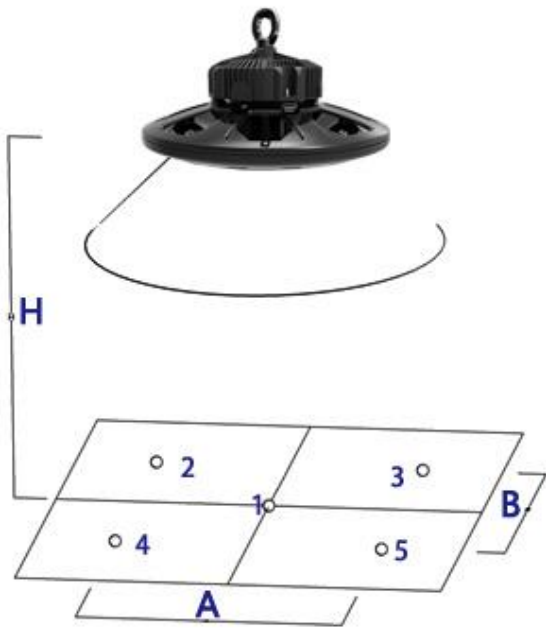
Depth distance & Coverage:



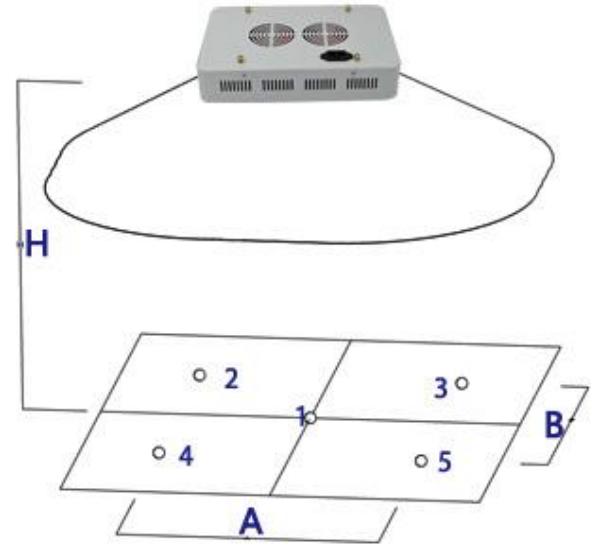
KR-GK-100W-90D

PAR output comparison test

High PAR output 100W=1000W?



PK

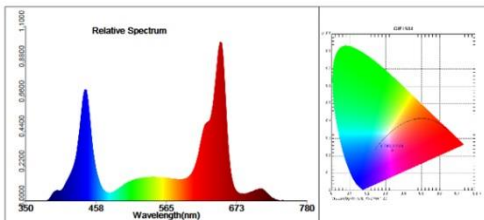


KR-GK-100W-D4-90D

1000W LED Grow Light

Product Name Model	KR-GK-100W-D4-90D	1000W LED Grow Light
Test Height	0.5m	0.5m
Distance A	0.45m	0.45m
Distance B	0.45m	0.45m
PAR Output PPFd I	410µmol/m <sup>2</sup> /s	384µmol/m <sup>2</sup> /s
PAR Output PPFd 2,3,4,5	245µmol/m <sup>2</sup> /s	203µmol/m <sup>2</sup> /s
Test Grow Tent Size	0.8x0.8x1.6m	0.8x0.8x1.6m
Actual Power	86W AC230V	200W AC230V

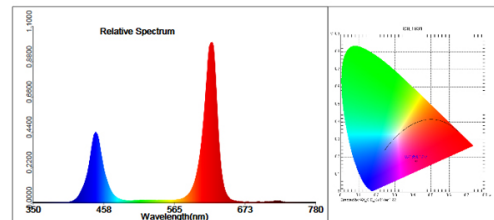
The above data are tested inside a plant grow tent.



Test parameter:

E= 14129.3 lx      E(tc)=1313.13 fc  
 CIE x= 0.3358      CIE y= 0.2309      CIE u'=0.2633      CIE v'=0.4076  
 Tc=4745 K      Lp=662.0 nm      HW=28.6 nm      Ld=610.2 nm  
 Pur=30.7 %      Ratio\_R=30.2 %      Ratio\_G=54.4 %      Ratio\_B=5.4 %  
 Duv=-0.07305  
 Ra=35.1      R1= 24      R2= 62      R3= 61  
 R4= 25      R5= 28      R6= 66      R7= 54  
 R8= 39      R9= 214      R10= 35      R11= 18  
 R12= 44      R13= 31      R14= 72      R15= 22  
 SDCM=56.3(F5000)  
 White Class:OUT  
 E1=86.293 W/m<sup>2</sup>      E2=90.047 W/m<sup>2</sup>      PPFd=410.56 µmol/(m<sup>2</sup>·s)  
 Ech-A=19.217 W/m<sup>2</sup>      Ech-B=16.173 W/m<sup>2</sup>      Ef=3.1042 W/m<sup>2</sup>  
 Eb=26.428 W/m<sup>2</sup>      Ey=16.061 W/m<sup>2</sup>      Er=43.829 W/m<sup>2</sup>  
 Ep=75.608 Wphyto/m<sup>2</sup>      Erb\_Ratio=1.6584  
 PPFdI=1.8670E+001 µmol/(m<sup>2</sup>·s)

RX-GK-100W 0.5M Test 0.8x0.8x1.6m Tents



Test parameter:

E= 11942.2 lx      E(tc)=1109.87 fc  
 CIE x= 0.4185      CIE y= 0.1777      CIE u'=0.3897      CIE v'=0.3724  
 Tc=1251 K      Lp=635.0 nm      HW=22.4 nm      Ld=610.2 nm  
 Pur=53.2 %      Ratio\_R=77.9 %      Ratio\_G=15.2 %      Ratio\_B=6.8 %  
 Duv=-0.11054  
 Ra=-6.6      R1= 39      R2=-14      R3=-49  
 R4= 72      R5=-6      R6=-122      R7=-19  
 R8= 46      R9= 58      R10=-130      R11= 68  
 R12=-460      R13= 0      R14= 29      R15= 54  
 SDCM=109.8(2700K/ELR)  
 White Class:OUT  
 E1=90.419 W/m<sup>2</sup>      E2=80.592 W/m<sup>2</sup>      PPFd=384.77 µmol/(m<sup>2</sup>·s)  
 Ech-A=1.0437 W/m<sup>2</sup>      Ech-B=15.452 W/m<sup>2</sup>      Ef=0.47316 W/m<sup>2</sup>  
 Eb=25.027 W/m<sup>2</sup>      Ey=3.3933 W/m<sup>2</sup>      Er=52.014 W/m<sup>2</sup>  
 Ep=72.406 Wphyto/m<sup>2</sup>      Erb\_Ratio=2.0783  
 PPFdI=2.9071E+000 µmol/(m<sup>2</sup>·s)

1000W 0.5M Test 0.8x0.8x1.6m Tents