

## FULL SPECTRUM T8 LED GROW TUBE SPECIFICATION

### ● Introduction

4 Foot 36W T8 LED grow tube is full spectrum grow tube, produce a well balanced spectrum for your plants, and allow plants to be transplanted more easily without shocking the system. Current plant lights are mostly based on red and blue light, it is easy to cause plant mutation or argon nitrate in photosynthesis. Now no other T8 tube on the market produces full spectrum with this quality, and it can be applied in more than 73% types of plants, vegetables, flowers and fruits, because it have almost the same spectrum of sun light. 3 Year Warranty!





● Details

LED qty	192
Power	36W
Power Factor	0.95
Luminous Flux	3000lm
Luminous Intensity	350 $\mu$ mol/m <sup>2</sup> /s <sup>2</sup> (12inch height from plants)
Size	1196*26mm

## ● SPECTRUM TEST REPORT

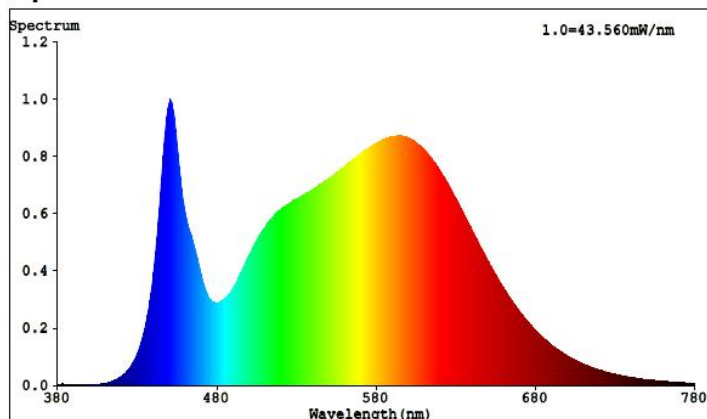
### Test Condition

Temperature : 28.0Deg  
 Scan Range : 380nm-780nm

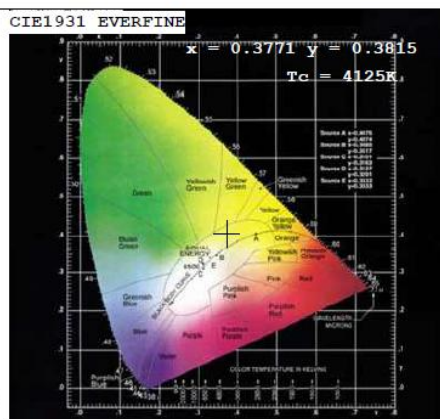
RH : 50%  
 IP : 50857 (78%)  
 T : 46 ms  
 Delicacy : High

Test Type : Fast Test

### Spectroradiometric Parameters



Spectral Distribution



CIE1931 Chromaticity Diagram

### CIE Color Parameters:

Chromaticity Coordinate:  $x=0.3771$   $y=0.3815$  /  $u'=0.2210$   $v'=0.5032$  ( $duv=3.23e-03$ )  
 CCT:  $T_c = 4125K$  Prcp Wavel:  $\lambda_p = 576.8nm$  Purity=27.7%  
 Peak Wavel:  $\lambda_p = 451nm$  Half Width:  $\Delta\lambda_p = 23.1nm$  Ratio: R=19.2% G=77.3% B=3.4%

Render Index:  $R_a = 83.2$

R1 =81 R2 =89 R3 =96 R4 =82 R5 =81 R6 =85 R7 =87  
 R8 =65 R9 =7 R10=75 R11=81 R12=61 R13=83 R14=98 R15=74  
 LEVEL:OUT WHITE:ANSI\_4000K

### Photo Parameters:

Flux = 2245 lm Eff. : 147.27 lm/W Fe = 6.727 W

### Electrical parameters:

V = 220.0 V I = 0.07300 A P = 15.24 W PF = 0.9490

● Comparison of full spectrum tube & red-blue tube & natural tube (strawberry):

Light source	Time of begin to take root/day	Max amount of roots/plant	Average amount of roots/plant	Growth rate	Branch root
Natural tube	9	30	21	88.6	yes
Full Spectrum	7	76	48	100	yes
Red-blue tube	10	25	17	72.2	yes

● Advantages and features of full spectrum tube & red-blue tube:

Light source	Key technology	Advantage	Feature
Full Spectrum	RGB phosphors mixed light	Cover 73% of planets effectively	High production, easy for users to grow several kinds of plants
One-way Spectrum	Adjusted ratio of red & blue light	Low cost	Low production, low luminance
			One adjustment for only one kind of plant
			Poor effect on promoting plant growth

● APPLICATION





● MOUNTING WAY

