

# Spectrum Test Report

Sample : HPS GROW LIGHT  
 Specification : HPS1000 400V R7S  
 Sample No. : 20160831D01-05 01  
 Manufacturer : USHIO

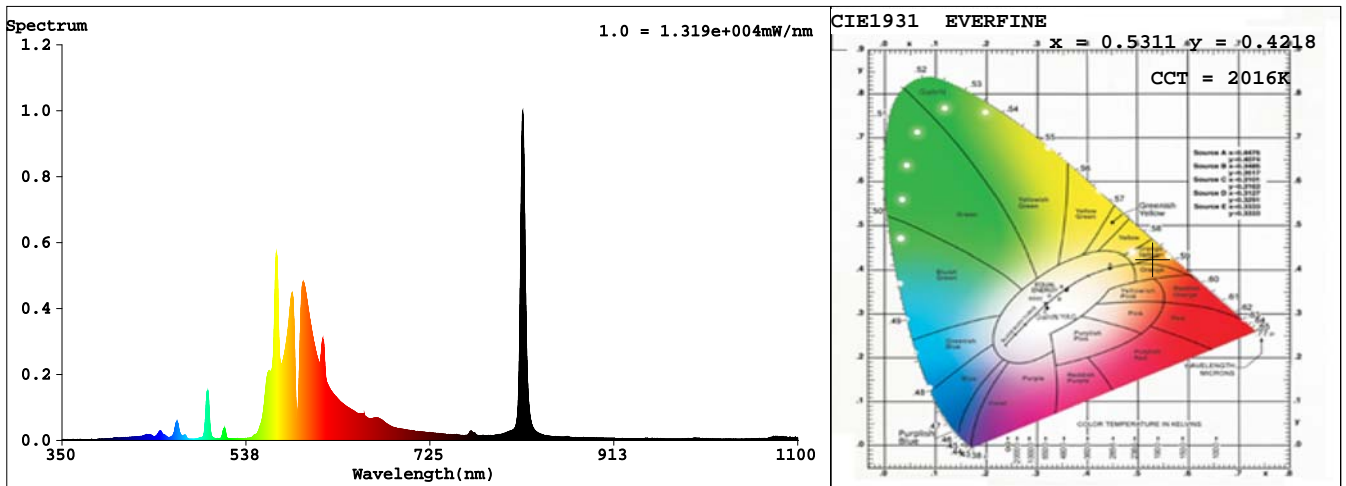
Date : 2016-11-31 08:42:19  
 Sam. Status :  
 Instrument : HaasSuite(EVERFINE)  
 Test by : DAMIN

## Test Condition

Temperature : 40.3Deg  
 WL Range : 350nm-1100nm  
 Test Mode : Accuracy Test

RH : 65.0%  
 IP : 46433 (71%)  
 T : 13 ms  
 Delicacy : High

## Spectrum



Spectral Distribution

CIE1931 Chromaticity Diagram

## Colorimetric Quantities

Chromaticity Coordinate:  $x = 0.5311$   $y = 0.4218$  /  $u' = 0.3035$   $v' = 0.5424$  ( $duv=2.63e-03$ )

CCT= 2016K Prcp WL:  $L_d=588.0nm$  Purity=86.0%

Peak WL:  $L_p=820nm$  FWHM: =5.2nm Ratio:R=25.2% G=73.5% B=1.3%

Render Index:  $R_a = 31.1$

R1 =17 R2 =64 R3 =65 R4 =0 R5 =12 R6 =48 R7 =44  
 R8 =0 R9 =0 R10=38 R11=0 R12=16 R13=21 R14=77 R15=10

## Photometric & Radiometric Quantities

Flux = 155816 lm Eff. : 156.36 lm/W  $F_e = 540.63 W$

Flux of emitted photons( $\mu mol/s$ ):2108.2 Fluo. and blue light ratio:28.90 Fluorescent eff.:520.2

PAR WATT:3.7282e+005mW(400-700nm)

## Electrical parameters

$V = 205.8 V$   $I = 4.881 A$   $P = 996.5 W$  PF = 0.9920