



**HG-FTN-12x3W**

*It will easily light up your pond or waterfall at night, and give you the display that even professionals will envy.*



## Submersible LED Lights

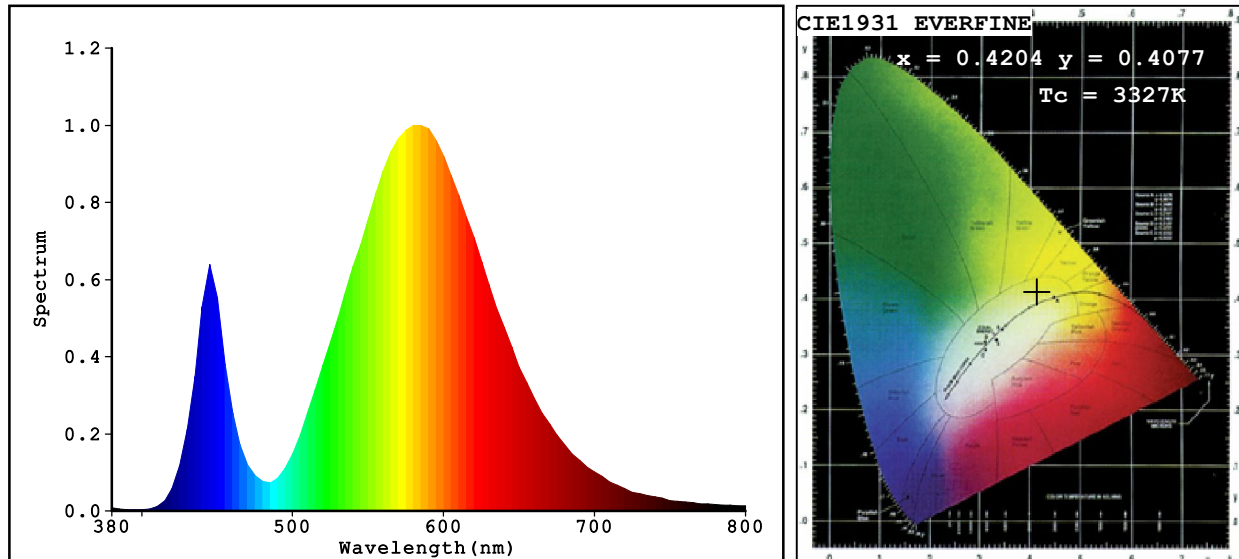
HG-FTN LED lights are capable of being placed above or below the water line. This feature allows you to create lighting accents in endless combinations. The LED lights also are capable of being placed underwater exclusively, which means your fish or underwater landscape can become the focal point of your pond experience. HG-FTN will easily light up your pond or waterfall at night, and give you the display that even professionals will envy.

### Specifications

Single Color	White/R/G/B/Y
Cable Connection	2 wires
Body Material	316 stainless steel
Size	179mmD x 77mmH x 50mm
Number of LED	12 x 3W
Input Voltage	AC/DC 12V
Watts Used	18W
Power Consumption	2.15A
Lumens per Watt	58.34 lm/w
Max Lumens:	1,540.90 lm
Working Temperature	0 - 40 °C
Beam Angle	15/25/30/45/60°
IP Rating	IP.68
Useful LED Life	50,000 hrs average
Warranty	2 years



## Light Source Test Report



### Color Parameters:

Chromaticity Coordinate:  $x=0.4204$   $y=0.4077$   $u'=0.2385$   $v'=0.5203$   
 $T_c=3327K$  Dominant WL:  $\lambda_d=580.0nm$  Purity=48.5% Centroid WL:  $578.0nm$   
Ratio: R=19.3% G=79.3% B=1.4% Peak WL:  $\lambda_p=585.0nm$  HWL:  $107.9nm$   
Render Index:  $R_a=62.4$   
R1 =57 R2 =73 R3 =86 R4 =58 R5 =55 R6 =59 R7 =76  
R8 =36 R9 =-63 R10=36 R11=47 R12=27 R13=59 R14=92 R15=50

### Photo Parameters:

Flux: 1540.9 lm Fe: 4.1820 W Efficacy: 58.34 lm/W  
LEVEL: WHITE: ANSI\_3500K

### Electrical Parameters:

Luminaire: U=14.02V I=2.146A P=26.41W PF=0.8777

#### Instrument Status:

Scan Range: 380.0nm-800.0nm Interval: 5.0nm[0]  
REF=7044 (R=3) %=-0.245%

$I_p=42537$  (G=5, D=50)  
PMT: 22.4 centigrade [23.7]

Product Type: 样品  
Number: HG-PQX-12X3W 暖白  
Temperature: 25.3 deg  
Test Operator:  
Software: V2.00.100

Manufacturer: Huguang Lighting Co., LTD  
Test Department: Huguang Lighting Co., LTD  
Humidity: 65.0%  
Test Date: 2015-01-29 20:36:06  
Instrument: PMS-80\_V1 (SN:1011025)