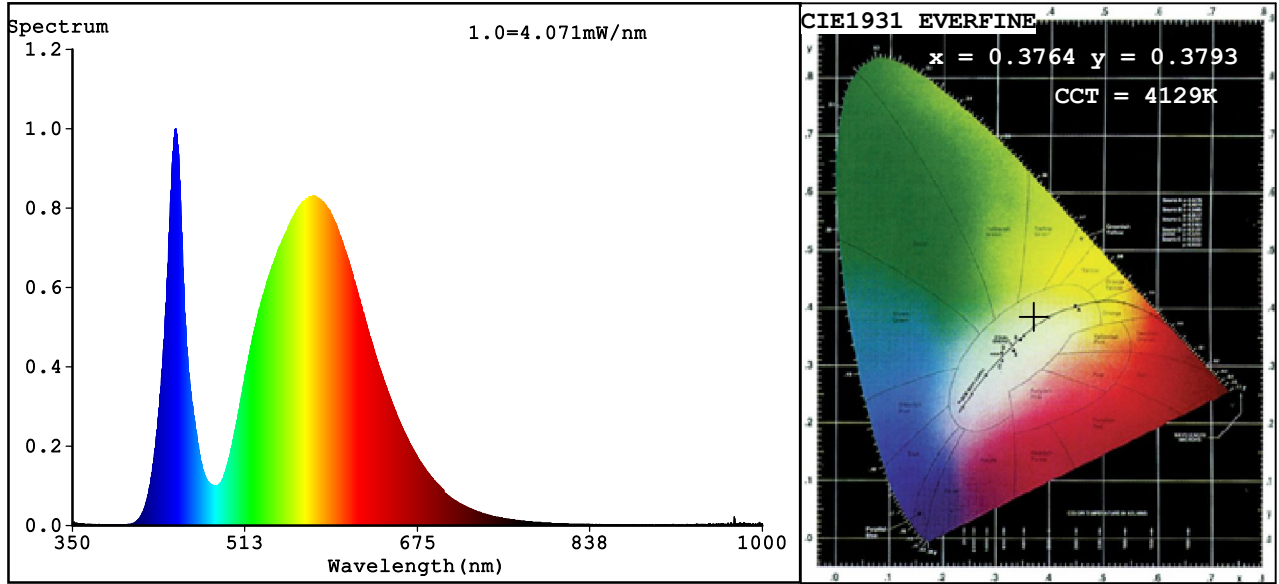


Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3764$ $y=0.3793$ / $u'=0.2215$ $v'=0.5021$
 CCT=4129K (Duv=0.0024) Dominant WL:Ld =577.3nm Purity=26.8%
 Ratio:R=15.7% G=82.0% B=2.3%; Peak WL:Lp=446.9nm FWHM=19.5nm
 Render Index:Ra=68.3
 R1 =64 R2 =75 R3 =83 R4 =67 R5 =64 R6 =64 R7 =79
 R8 =50 R9 =0 R10=40 R11=61 R12=34 R13=66 R14=90 R15=59

Photo Parameters:

Flux = 187.3 lm Eff. : 59.90 lm/W Fe = 536.3 mW

Electrical parameters:

V = 11.959 V I = 0.3816 A P = 3.127 W PF = 0.6852

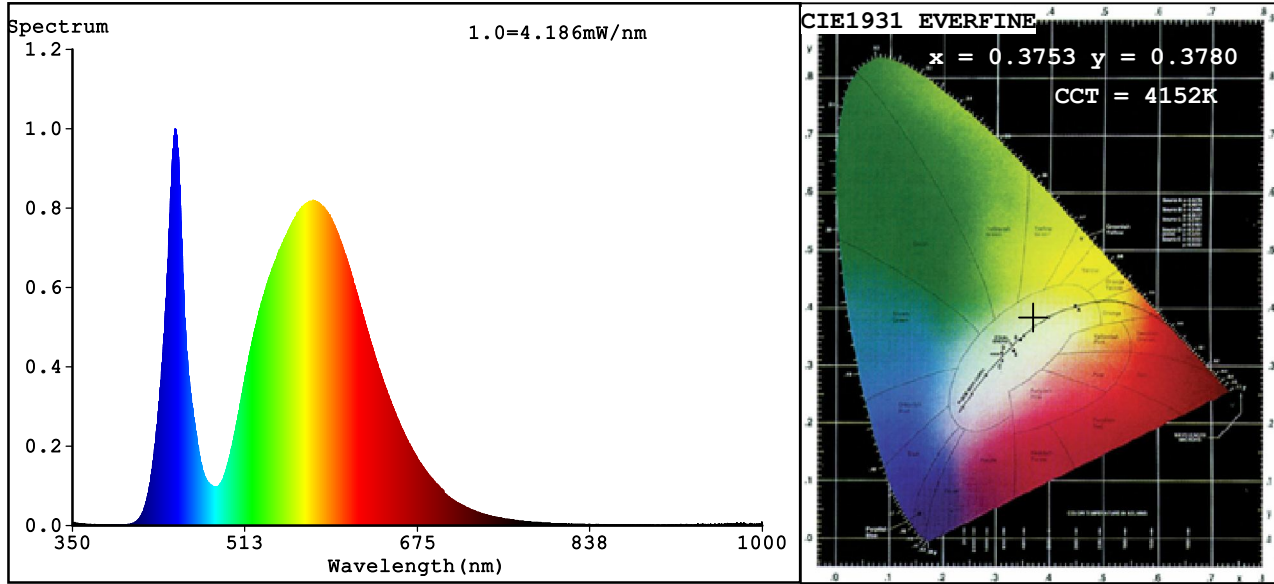
WHITE:ANSI_4000K

Status: Integral T = 207 ms Ip = 50934 (78%)

Model:UNDERWATER LED LIGHTS/3x1W
 Tester:Petya Marinova
 Temperature:25.3Deg
 Manufacturer:ELMARK

Number:98LED003SW
 Date:2016-12-12 14:53
 Humidity:65.0%
 Remarks:016V037B_3303

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3753$ $y=0.3780$ $u'=0.2212$ $v'=0.5014$

CCT=4152K(Duv=0.0021) Dominant WL:Ld =577.3nm Purity=26.1%

Ratio:R=15.7% G=82.1% B=2.3%;;Peak WL:Lp=446.8nm FWHM=19.6nm

Render Index:Ra=68.3

R1 =65	R2 =75	R3 =82	R4 =67	R5 =64	R6 =64	R7 =79	
R8 =50	R9 =0	R10=40	R11=61	R12=35	R13=66	R14=90	R15=59

Photo Parameters:

Flux = 190.3 lm Eff. : 64.80 lm/W Fe = 545.8 mW

Electrical parameters:

V = 11.965 V I = 0.3603 A P = 2.936 W PF = 0.6811

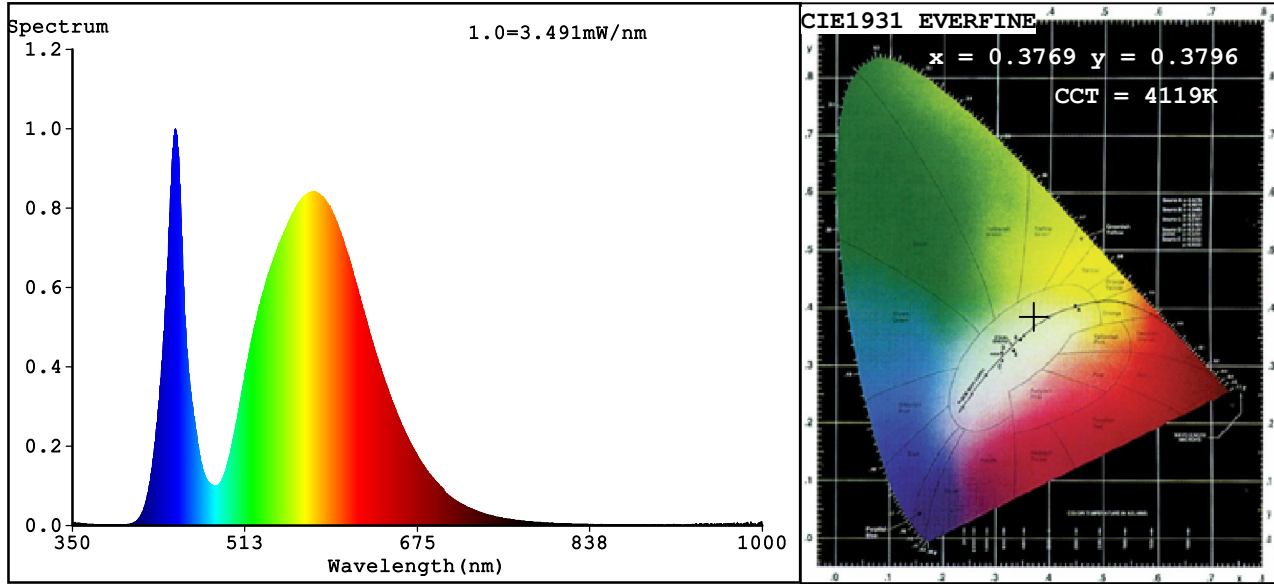
WHITE:ANSI_4000K

Status: Integral T = 207 ms Ip = 52121 (80%)

Model:UNDERWATER LED LIGHTS/3x1W
Tester:Petya Marinova
Temperature:25.3Deg
Manufacturer:ELMARK

Number:98LED003SW
Date:2016-12-12 14:57
Humidity:65.0%
Remarks:016V037B_3303

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3769$ $y=0.3796$ $u'=0.2216$ $v'=0.5023$

CCT=4119K(Duv=0.0024) Dominant WL:Ld =577.3nm Purity=27.0%

Ratio:R=15.7% G=82.1% B=2.2%;;Peak WL:Lp=446.9nm FWHM=19.8nm

Render Index:Ra=68.1

R1 =64	R2 =75	R3 =82	R4 =67	R5 =64	R6 =64	R7 =79	
R8 =49	R9 =0	R10=40	R11=60	R12=35	R13=66	R14=90	R15=59

Photo Parameters:

Flux = 162.8 lm Eff. : 54.10 lm/W Fe = 465.9 mW

Electrical parameters:

V = 11.960 V I = 0.3680 A P = 3.009 W PF = 0.6836

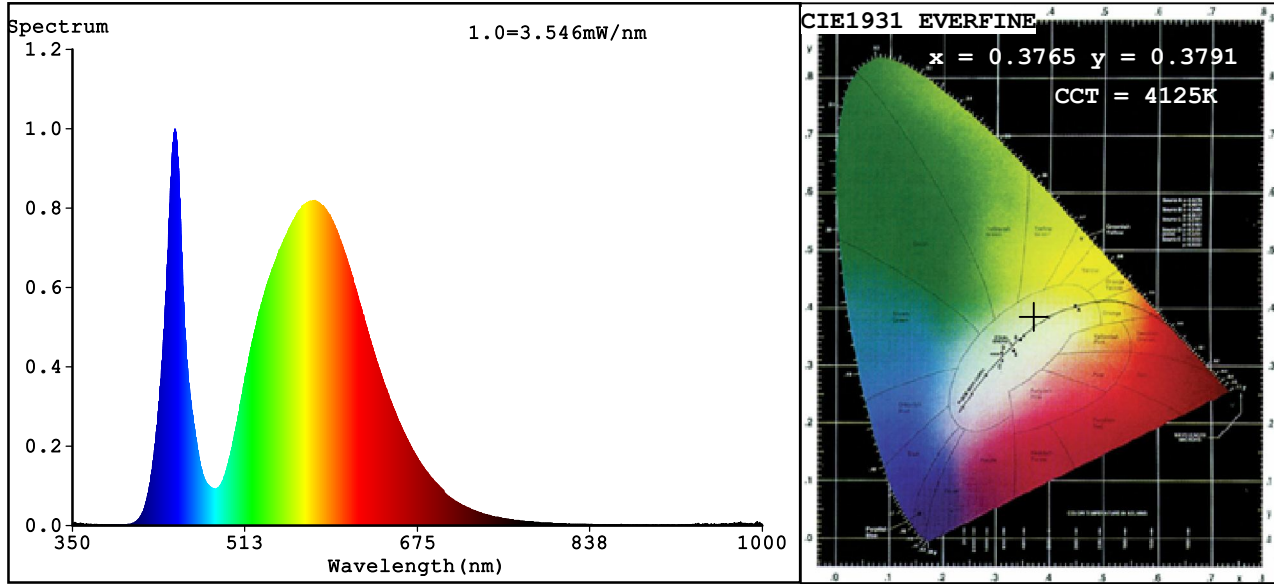
WHITE:ANSI_4000K

Status: Integral T = 207 ms Ip = 44283 (68%)

Model:UNDERWATER LED LIGHTS/3x1W
Tester:Petya Marinova
Temperature:25.3Deg
Manufacturer:ELMARK

Number:98LED003SW
Date:2016-12-12 15:27
Humidity:65.0%
Remarks:016V037B_3303

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3765$ $y=0.3791$ / $u'=0.2216$ $v'=0.5020$

CCT=4125K (Duv=0.0023) Dominant WL:Ld =577.3nm Purity=26.8%

Ratio:R=15.7% G=82.1% B=2.2%; Peak WL:Lp=446.6nm FWHM=19.3nm

Render Index:Ra=67.9

R1 =64	R2 =74	R3 =82	R4 =67	R5 =64	R6 =63	R7 =79	
R8 =49	R9 =0	R10=39	R11=61	R12=34	R13=65	R14=90	R15=59

Photo Parameters:

Flux = 160.9 lm Eff. : 53.74 lm/W Fe = 460.6 mW

Electrical parameters:

V = 11.959 V I = 0.3667 A P = 2.995 W PF = 0.6828

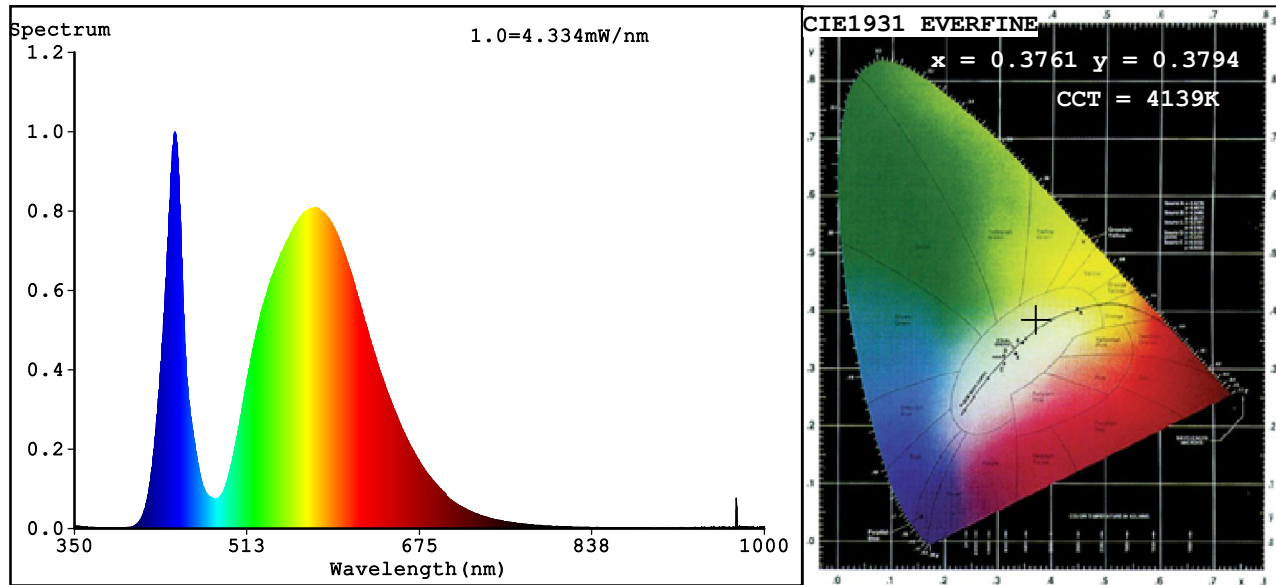
WHITE:ANSI_4000K

Status: Integral T = 207 ms Ip = 43979 (67%)

Model:UNDERWATER LED LIGHTS/3x1W
Tester:Petya Marinova
Temperature:25.3Deg
Manufacturer:ELMARK

Number:98LED003SW
Date:2016-12-12 15:29
Humidity:65.0%
Remarks:016V037B_3303

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3761$ $y=0.3794$ $u'=0.2212$ $v'=0.5021$

CCT=4139K(Duv=0.0025) Dominant WL:Ld =577.1nm Purity=26.7%

Ratio:R=15.6% G=82.4% B=2.0%;;Peak WL:Lp=444.8nm FWHM=19.9nm

Render Index:Ra=66.9

R1 =64 R2 =73 R3 =80 R4 =67 R5 =63 R6 =62 R7 =78

R8 =49 R9 =0 R10=36 R11=61 R12=34 R13=64 R14=89 R15=58

Photo Parameters:

Flux = 195.2 lm Eff. : 62.84 lm/W Fe = 559.2 mW

Electrical parameters:

V = 11.963 V I = 0.3811 A P = 3.106 W PF = 0.6812

WHITE:ANSI_4000K

Status: Integral T = 207 ms Ip = 53572 (82%)

Model:UNDERWATER LED LIGHTS/3x1W
Tester:Petya Marinova
Temperature:25.3Deg
Manufacturer:ELMARK

Number:98LED003SW
Date:2016-12-12 15:31
Humidity:65.0%
Remarks:016V037B_3303