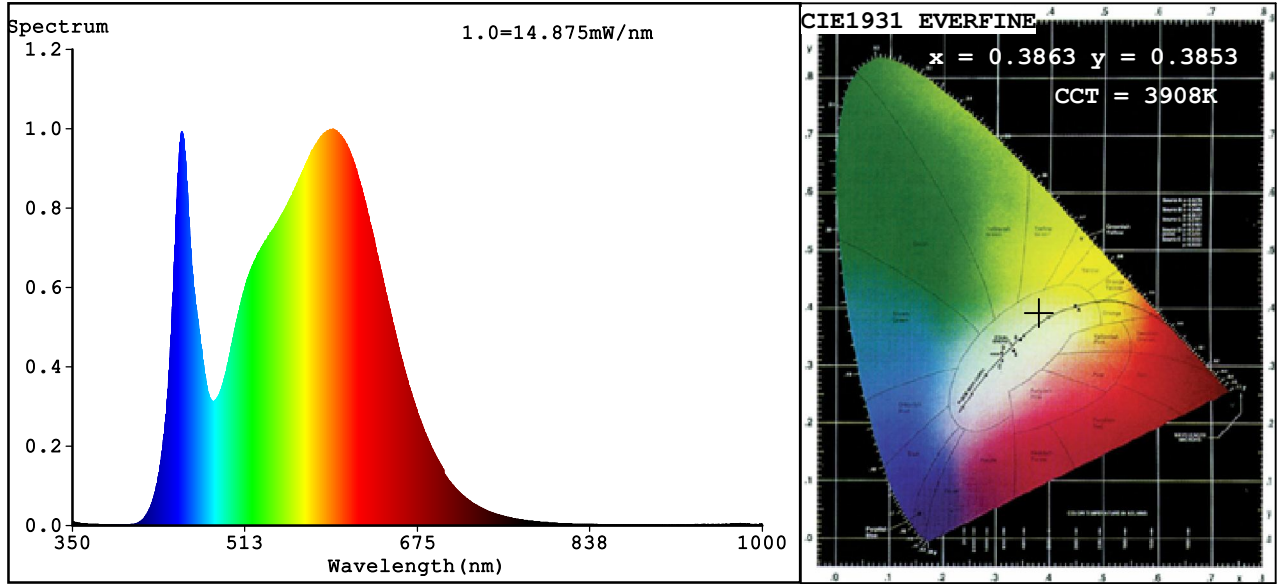


Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3863$ $y=0.3853$ $u'=0.2255$ $v'=0.5062$
 CCT=3908K(Duv=0.0023) Dominant WL:Ld =578.3nm Purity=31.6%
 Ratio:R=18.5% G=77.9% B=3.6%;;Peak WL:Lp=595.5nm FWHM=149.3nm
 Render Index:Ra=83.3
 R1 =81 R2 =90 R3 =96 R4 =81 R5 =81 R6 =86 R7 =86
 R8 =65 R9 =10 R10=76 R11=80 R12=61 R13=84 R14=98 R15=75

Photo Parameters:

Flux = 856.0 lm Eff. : 97.96 lm/W Fe = 2.594 W

Electrical parameters:

V = 229.97 V I = 0.06713 A P = 8.738 W PF = 0.5661

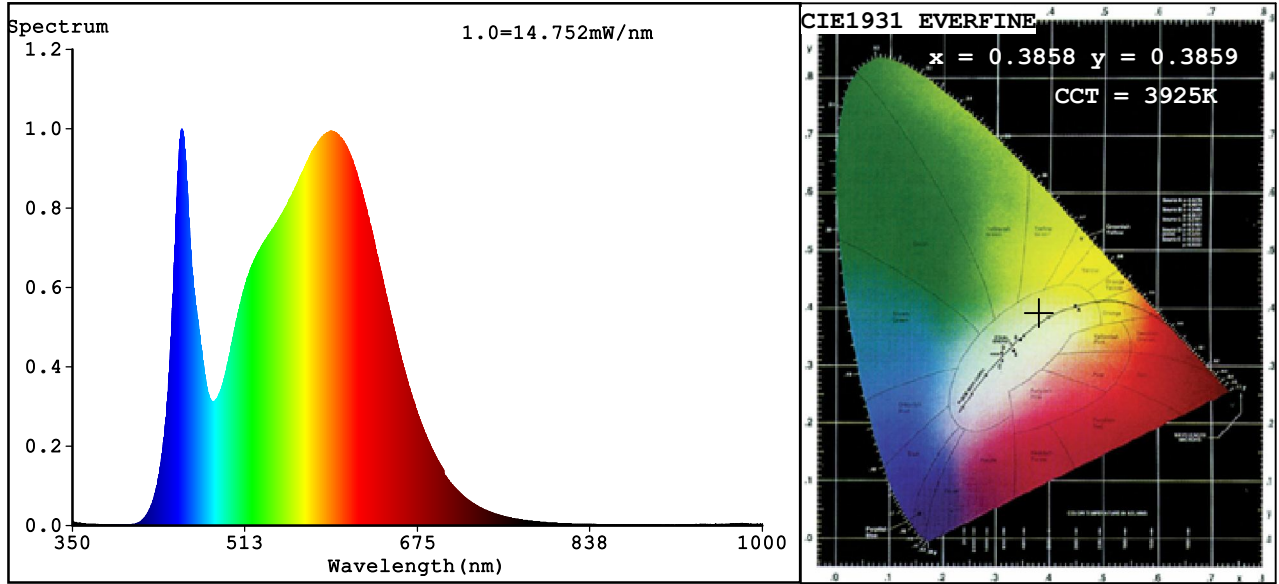
WHITE:ANSI_4000K

Status: Integral T = 65 ms Ip = 49160 (75%)

Model:LED STICK/9W
 Tester:Petya Marinova
 Temperature:25.3Deg
 Manufacturer:ELMARK

Number:99LED902
 Date:2017-10-10 12:59
 Humidity:65.0%
 Remarks:017V019B_3868

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3858$ $y=0.3859$ / $u'=0.2250$ $v'=0.5064$

CCT=3925K (Duv=0.0027) Dominant WL:Ld =578.0nm Purity=31.6%

Ratio:R=18.4% G=78.0% B=3.6%; Peak WL:Lp=453.3nm FWHM=25.4nm

Render Index:Ra=83.2

R1 =81	R2 =90	R3 =96	R4 =81	R5 =81	R6 =86	R7 =86	
R8 =65	R9 =10	R10=76	R11=80	R12=60	R13=83	R14=98	R15=75

Photo Parameters:

Flux = 848.0 lm Eff. : 100.12 lm/W Fe = 2.565 W

Electrical parameters:

V = 229.95 V I = 0.06560 A P = 8.470 W PF = 0.5615

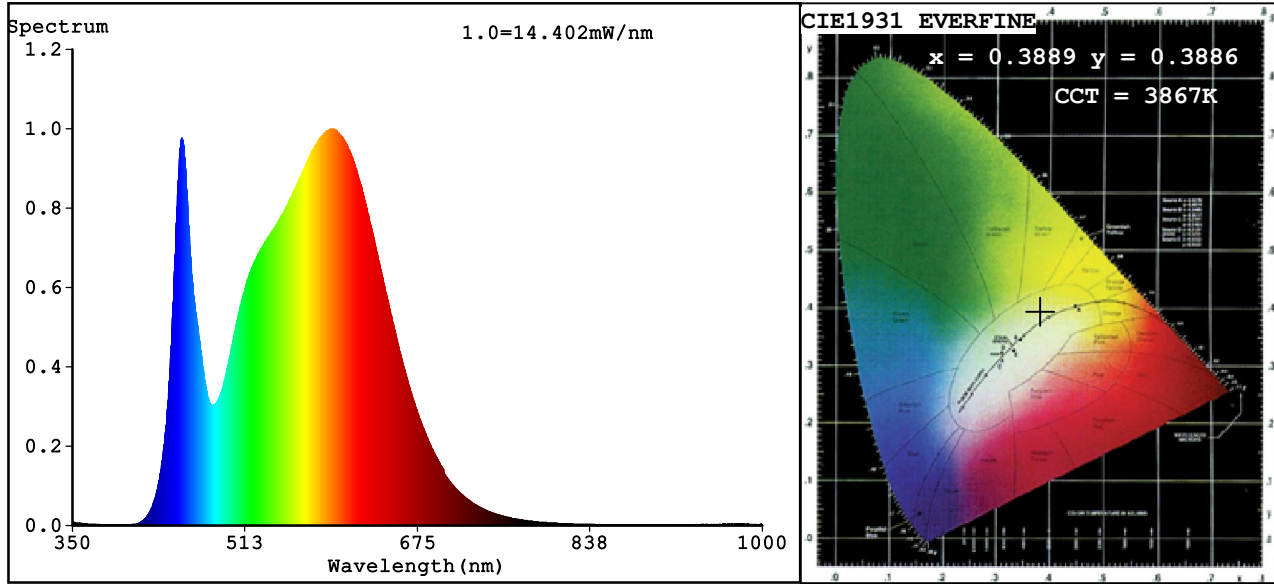
WHITE:ANSI_4000K

Status: Integral T = 65 ms Ip = 48508 (74%)

Model:LED STICK/9W
Tester:Petya Marinova
Temperature:25.3Deg
Manufacturer:ELMARK

Number:99LED902
Date:2017-10-10 13:01
Humidity:65.0%
Remarks:017V019B_3868

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3889$ $y=0.3886/u'=0.2259$ $v'=0.5080$

CCT=3867K(Duv=0.0031) Dominant WL:Ld =578.1nm Purity=33.4%

Ratio:R=18.6% G=77.9% B=3.5%;;Peak WL:Lp=594.5nm FWHM=149.2nm

Render Index:Ra=83.0

R1 =81 R2 =90 R3 =96 R4 =81 R5 =81 R6 =86 R7 =86

R8 =64 R9 =9 R10=75 R11=79 R12=59 R13=83 R14=98 R15=74

Photo Parameters:

Flux = 827.4 lm Eff. : 101.54 lm/W Fe = 2.493 W

Electrical parameters:

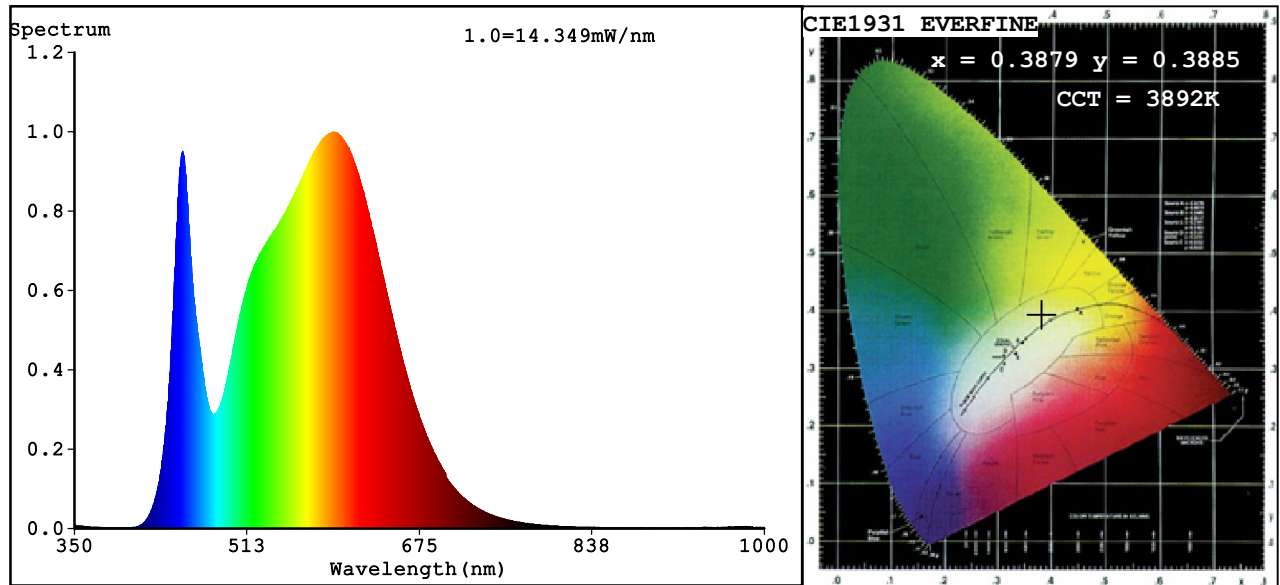
V = 229.95 V I = 0.06404 A P = 8.148 W PF = 0.5533

WHITE:ANSI_4000K

Status: Integral T = 65 ms Ip = 47528 (73%)

Model:LED STICK/9W
Tester:Petya Marinova
Temperature:25.3Deg
Manufacturer:ELMARK

Number:99LED902
Date:2017-10-10 13:02
Humidity:65.0%
Remarks:017V019B_3868

Spectrum Test Report**Color Parameters:**Chromaticity Coordinate: $x=0.3879$ $y=0.3885$ $u'=0.2253$ $v'=0.5077$

CCT=3892K (Duv=0.0033) Dominant WL:Ld =577.9nm Purity=33.0%

Ratio:R=18.4% G=78.2% B=3.4%;; Peak WL:Lp=594.5nm FWHM=149.3nm

Render Index:Ra=82.5

R1 =80 R2 =89 R3 =95 R4 =81 R5 =80 R6 =84 R7 =87

R8 =64 R9 =7 R10=73 R11=80 R12=60 R13=82 R14=97 R15=74

Photo Parameters:

Flux = 827.8 lm Eff. : 100.96 lm/W Fe = 2.487 W

Electrical parameters:

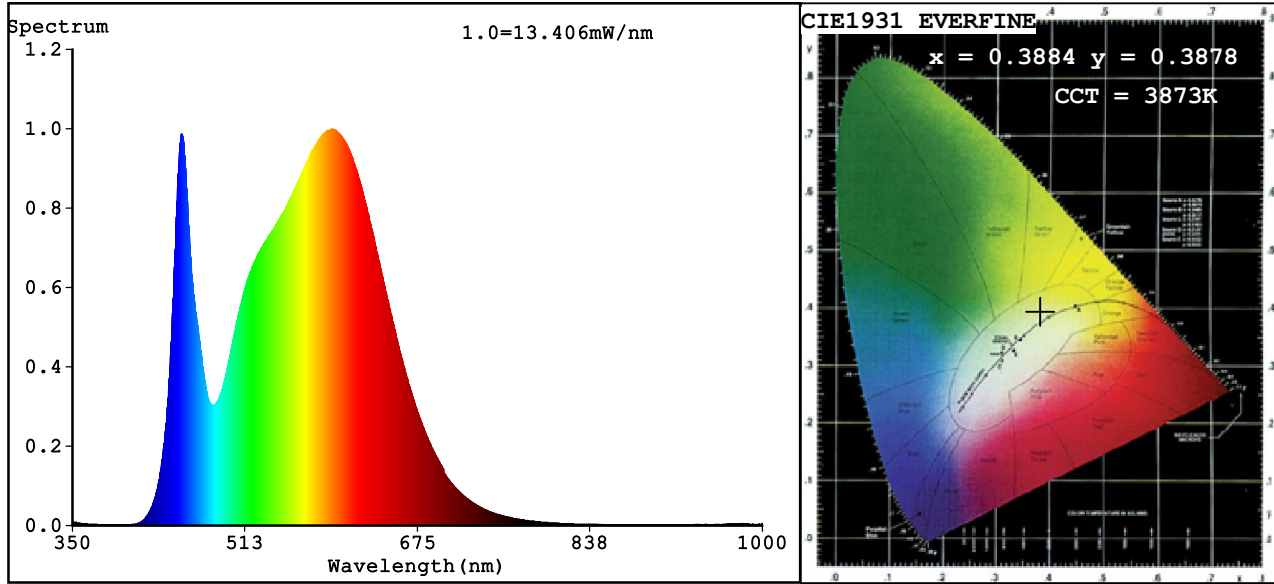
V = 229.97 V I = 0.06400 A P = 8.199 W PF = 0.5571

WHITE:ANSI_4000K

Status: Integral T = 65 ms Ip = 47446 (72%)

Model:LED STICK/9W
Tester:Petya Marinova
Temperature:25.3Deg
Manufacturer:ELMARKNumber:99LED902
Date:2017-10-10 13:05
Humidity:65.0%
Remarks:017V019B_3868

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3884$ $y=0.3878$ $u'=0.2259$ $v'=0.5075$
 CCT=3873K (Duv=0.0028) Dominant WL:Ld =578.2nm Purity=33.0%
 Ratio:R=18.6% G=77.9% B=3.5%;; Peak WL:Lp=595.5nm FWHM=149.4nm
 Render Index:Ra=83.0
 R1 =81 R2 =90 R3 =96 R4 =81 R5 =81 R6 =86 R7 =86
 R8 =64 R9 =9 R10=75 R11=79 R12=60 R13=83 R14=98 R15=75

Photo Parameters:

Flux = 770.6 lm Eff. : 93.80 lm/W Fe = 2.327 W

Electrical parameters:

V = 229.95 V I = 0.06425 A P = 8.216 W PF = 0.5561

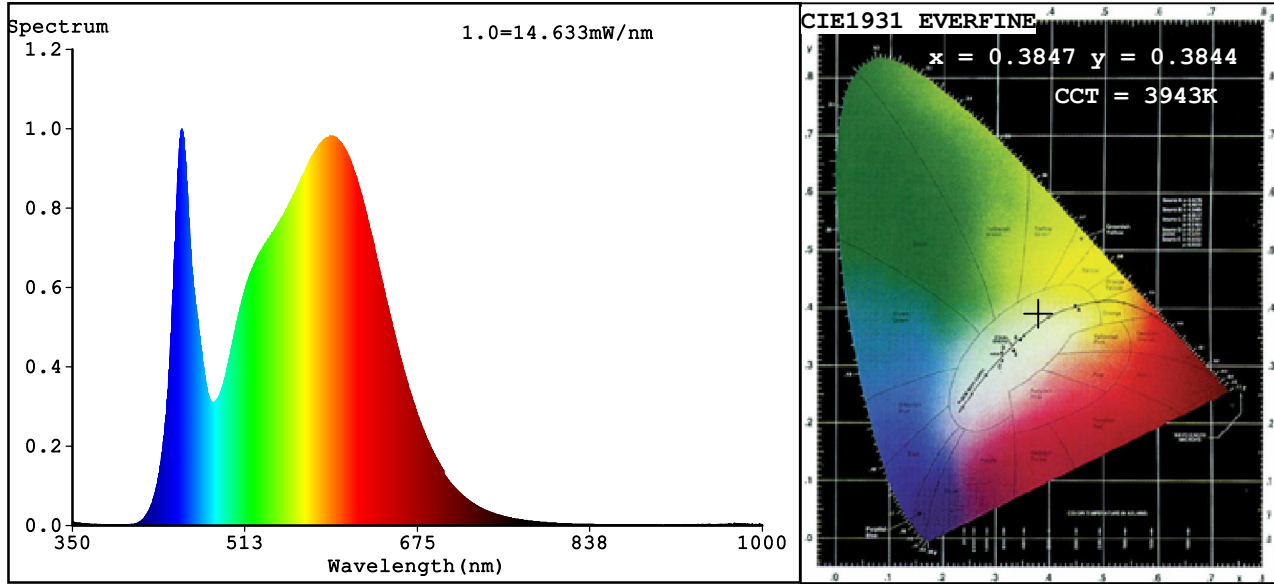
WHITE:ANSI_4000K

Status: Integral T = 65 ms Ip = 44229 (67%)

Model:LED STICK/9W
 Tester:Petya Marinova
 Temperature:25.3Deg
 Manufacturer:ELMARK

Number:99LED902
 Date:2017-10-10 13:09
 Humidity:65.0%
 Remarks:017V019B_3868

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3847$ $y=0.3844$ / $u'=0.2249$ $v'=0.5055$

CCT=3943K (Duv=0.0023) Dominant WL:Ld =578.1nm Purity=30.8%

Ratio:R=18.4% G=78.0% B=3.6%; Peak WL:Lp=453.3nm FWHM=25.5nm

Render Index:Ra=83.2

R1 =81	R2 =90	R3 =96	R4 =81	R5 =81	R6 =86	R7 =86	
R8 =65	R9 =10	R10=76	R11=79	R12=60	R13=84	R14=98	R15=75

Photo Parameters:

Flux = 831.0 lm Eff. : 97.73 lm/W Fe = 2.520 W

Electrical parameters:

V = 229.94 V I = 0.06589 A P = 8.503 W PF = 0.5612

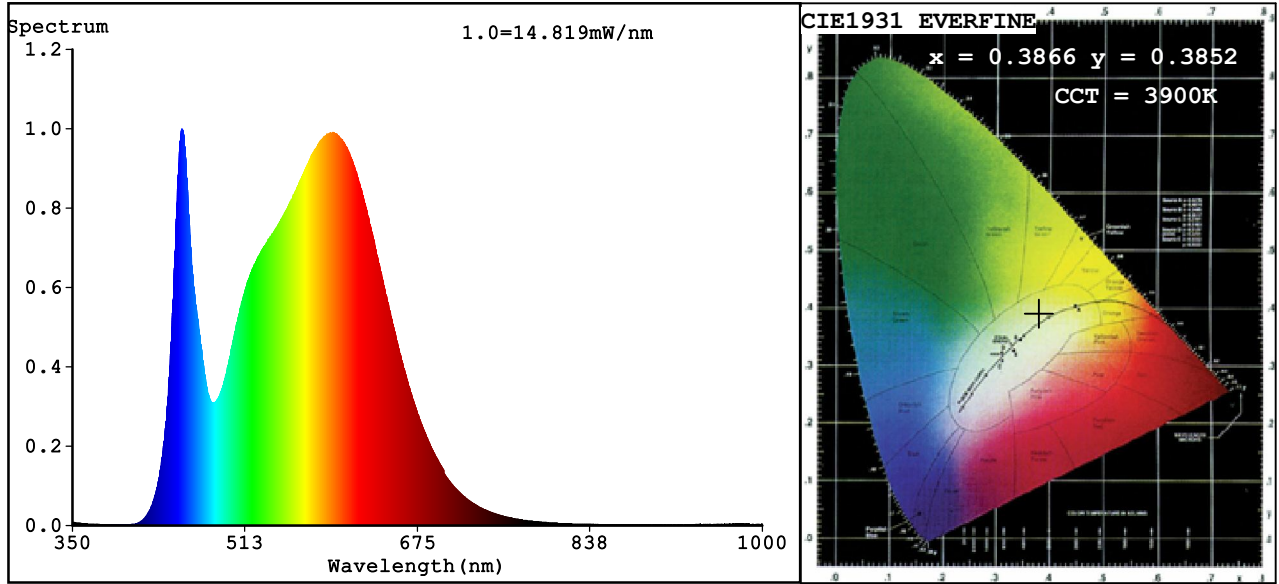
WHITE:ANSI_4000K

Status: Integral T = 65 ms Ip = 47557 (73%)

Model:LED STICK/9W
Tester:Petya Marinova
Temperature:25.3Deg
Manufacturer:ELMARK

Number:99LED902
Date:2017-10-10 13:10
Humidity:65.0%
Remarks:017V019B_3868

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3866$ $y=0.3852$ $u'=0.2258$ $v'=0.5062$
 CCT=3900K (Duv=0.0022) Dominant WL:Ld =578.4nm Purity=31.7%
 Ratio:R=18.6% G=77.8% B=3.6%;; Peak WL:Lp=453.3nm FWHM=25.2nm
 Render Index:Ra=83.3
 R1 =81 R2 =90 R3 =96 R4 =81 R5 =81 R6 =86 R7 =86
 R8 =65 R9 =10 R10=76 R11=80 R12=60 R13=84 R14=98 R15=75

Photo Parameters:

Flux = 843.9 lm Eff. : 98.86 lm/W Fe = 2.558 W

Electrical parameters:

V = 229.94 V I = 0.06588 A P = 8.536 W PF = 0.5635

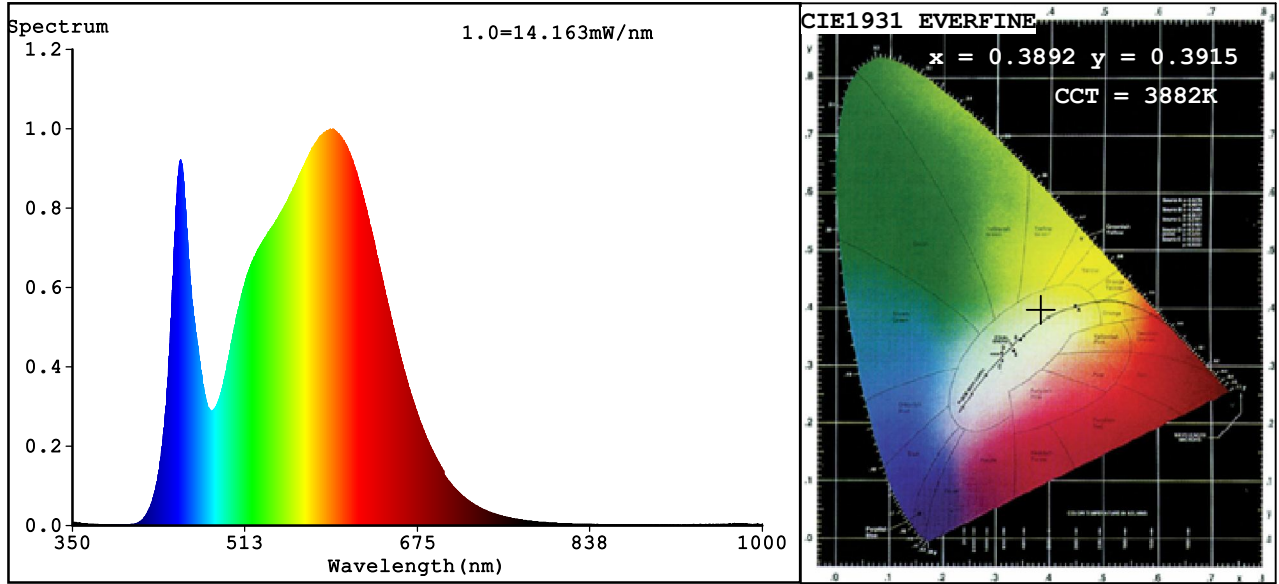
WHITE:ANSI_4000K

Status: Integral T = 65 ms Ip = 48467 (74%)

Model:LED STICK/9W
 Tester:Petya Marinova
 Temperature:25.3Deg
 Manufacturer:ELMARK

Number:99LED902
 Date:2017-10-10 13:12
 Humidity:65.0%
 Remarks:017V019B_3868

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3892$ $y=0.3915$ $u'=0.2250$ $v'=0.5092$

CCT=3882K (Duv=0.0043) Dominant WL:Ld =577.5nm Purity=34.3%

Ratio:R=18.3% G=78.3% B=3.4%;; Peak WL:Lp=595.5nm FWHM=149.6nm

Render Index:Ra=82.3

R1 =80 R2 =88 R3 =95 R4 =81 R5 =80 R6 =84 R7 =87

R8 =63 R9 =5 R10=73 R11=79 R12=59 R13=82 R14=98 R15=73

Photo Parameters:

Flux = 818.3 lm Eff. : 102.17 lm/W Fe = 2.445 W

Electrical parameters:

V = 229.93 V I = 0.06263 A P = 8.009 W PF = 0.5561

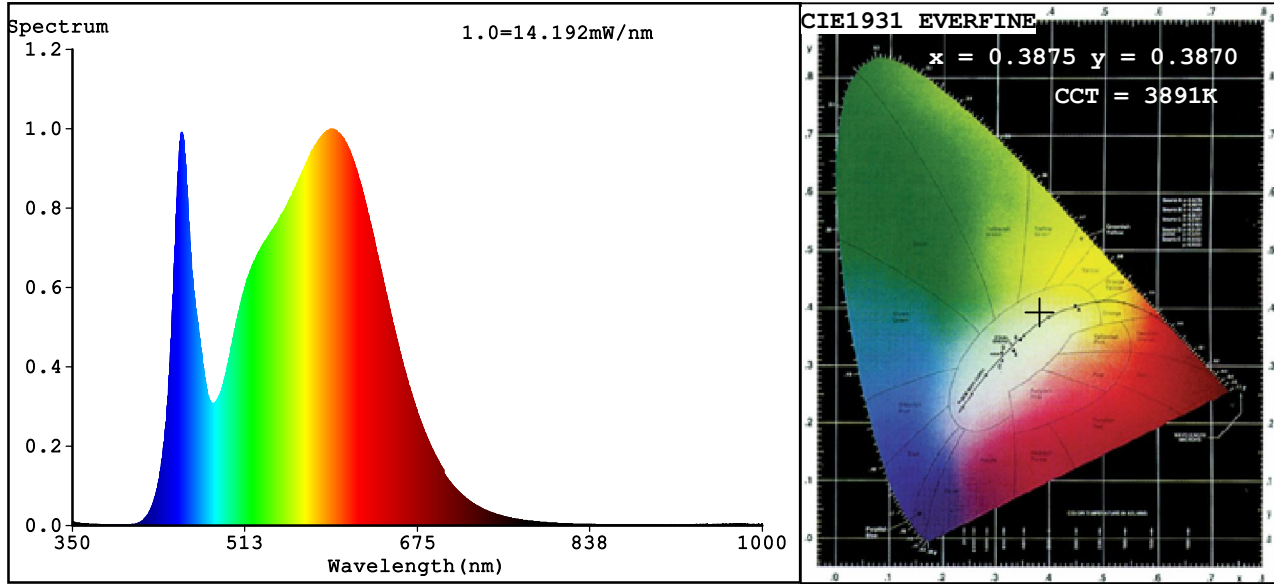
WHITE:ANSI_4000K

Status: Integral T = 65 ms Ip = 46826 (71%)

Model:LED STICK/9W
Tester:Petya Marinova
Temperature:25.3Deg
Manufacturer:ELMARK

Number:99LED902
Date:2017-10-10 13:13
Humidity:65.0%
Remarks:017V019B_3868

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3875$ $y=0.3870$ / $u'=0.2257$ $v'=0.5071$
 CCT=3891K (Duv=0.0027) Dominant WL:Ld =578.2nm Purity=32.4%
 Ratio:R=18.5% G=77.9% B=3.6%; Peak WL:Lp=595.5nm FWHM=149.4nm
 Render Index:Ra=83.1
 R1 =81 R2 =90 R3 =96 R4 =81 R5 =81 R6 =86 R7 =86
 R8 =64 R9 =9 R10=75 R11=80 R12=60 R13=83 R14=98 R15=75

Photo Parameters:

Flux = 817.0 lm Eff. : 100.65 lm/W Fe = 2.468 W

Electrical parameters:

V = 229.94 V I = 0.06329 A P = 8.117 W PF = 0.5577

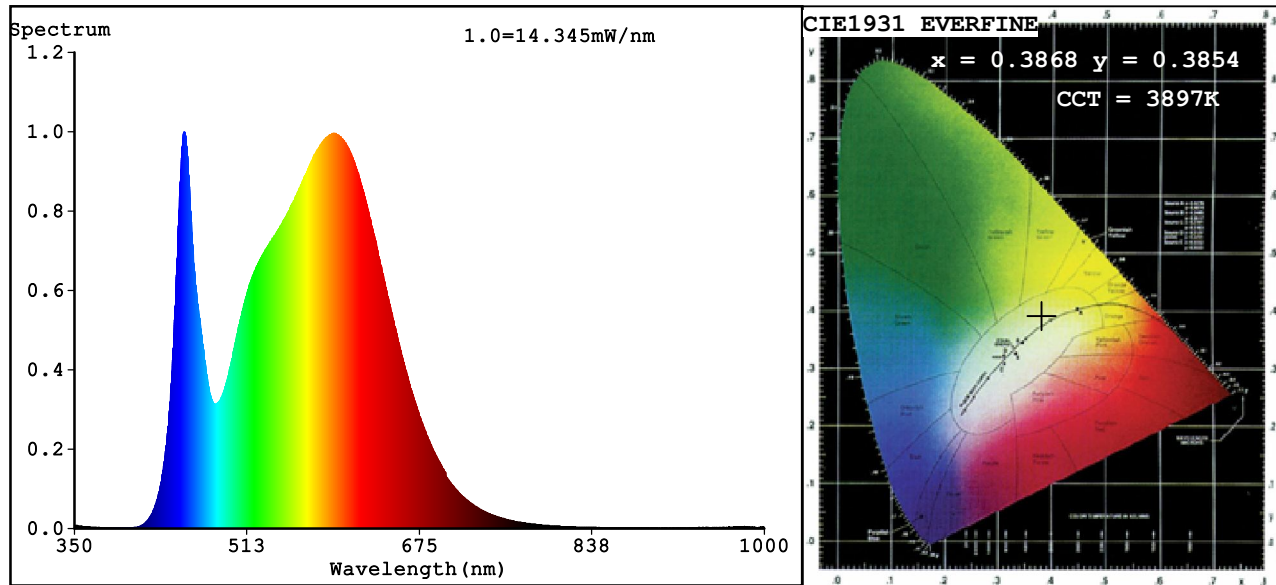
WHITE:ANSI_4000K

Status: Integral T = 65 ms Ip = 46865 (72%)

Model:LED STICK/9W
 Tester:Petya Marinova
 Temperature:25.3Deg
 Manufacturer:ELMARK

Number:99LED902
 Date:2017-10-10 13:14
 Humidity:65.0%
 Remarks:017V019B_3868

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3868$ $y=0.3854$ $u'=0.2258$ $v'=0.5063$

CCT=3897K (Duv=0.0022) Dominant WL:Ld =578.4nm Purity=31.8%

Ratio:R=18.6% G=77.8% B=3.6%;; Peak WL:Lp=454.0nm FWHM=25.4nm

Render Index:Ra=83.3

R1 =81	R2 =90	R3 =96	R4 =81	R5 =81	R6 =86	R7 =86		
R8 =64	R9 =10	R10=76	R11=79	R12=60	R13=84	R14=98	R15=75	

Photo Parameters:

Flux = 821.1 lm Eff. : 98.94 lm/W Fe = 2.489 W

Electrical parameters:

V = 229.93 V I = 0.06466 A P = 8.299 W PF = 0.5582

WHITE:ANSI_4000K

Status: Integral T = 65 ms Ip = 47199 (72%)

Model:LED STICK/9W
Tester:Petya Marinova
Temperature:25.3Deg
Manufacturer:ELMARK

Number:99LED902
Date:2017-10-10 13:16
Humidity:65.0%
Remarks:017V019B_3868