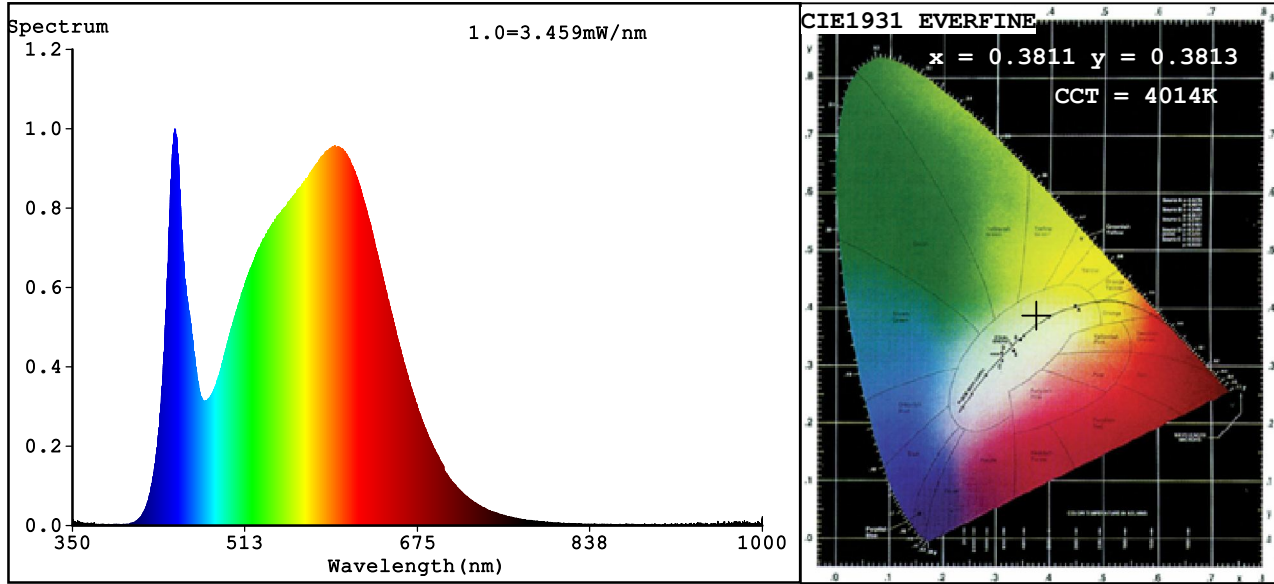


**Spectrum Test Report**



**Color Parameters:**

Chromaticity Coordinate:  $x=0.3811$   $y=0.3813$   $u'=0.2238$   $v'=0.5037$

CCT=4014K(Duv=0.0019) Dominant WL:Ld =578.0nm Purity=28.8%

Ratio:R=18.5% G=77.8% B=3.7%;;Peak WL:Lp=446.6nm FWHM=24.2nm

Render Index:Ra=84.8

R1 =83      R2 =89      R3 =94      R4 =85      R5 =83      R6 =86      R7 =88

R8 =69      R9 =19      R10=75      R11=84      R12=67      R13=85      R14=97      R15=78

**Photo Parameters:**

Flux = 196.1 lm    Eff. : 57.03 lm/W    Fe = 606.4 mW

**Electrical parameters:**

V = 229.98 V      I = 0.01934 A      P = 3.438 W PF = 0.7730

WHITE:ANSI\_4000K

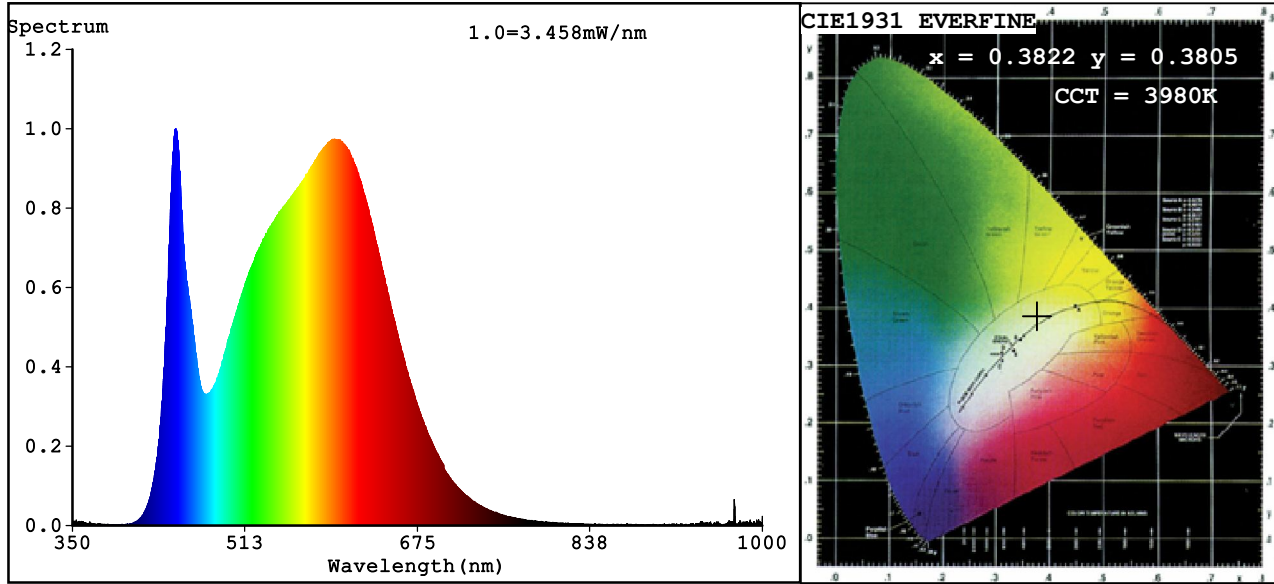
Status: Integral T = 225 ms    Ip = 38246 (58%)

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Model:OL9611-W1 LED/3W  
Tester:Petya Marinova  
Temperature:25.3Deg  
Manufacturer:ELMARK

Number:9611LEDW1  
Date:2017-06-15 10:34  
Humidity:65.0%  
Remarks:ESPL201611018\_3538

**Spectrum Test Report**



**Color Parameters:**

Chromaticity Coordinate:  $x=0.3822$   $y=0.3805$   $u'=0.2248$   $v'=0.5035$   
 CCT=3980K(Duv=0.0012) Dominant WL:Ld =578.5nm Purity=28.9%  
 Ratio:R=18.7% G=77.6% B=3.7%;;Peak WL:Lp=447.2nm FWHM=25.1nm  
 Render Index:Ra=85.2  
 R1 =84 R2 =90 R3 =95 R4 =85 R5 =84 R6 =86 R7 =88  
 R8 =69 R9 =20 R10=76 R11=84 R12=67 R13=85 R14=97 R15=78

**Photo Parameters:**

Flux = 198.2 lm Eff. : 58.69 lm/W Fe = 614.7 mW

**Electrical parameters:**

V = 229.99 V I = 0.01908 A P = 3.377 W PF = 0.7693

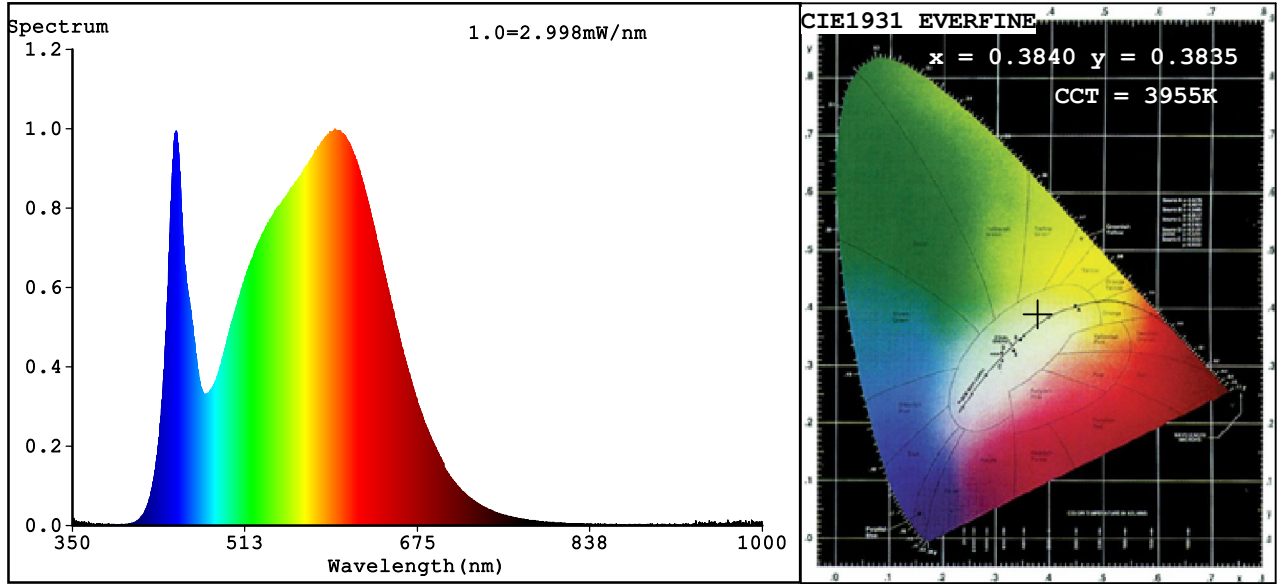
WHITE:ANSI\_4000K

Status: Integral T = 225 ms Ip = 38894 (59%)

Model:OL9611-W1 LED/3W  
 Tester:Petya Marinova  
 Temperature:25.3Deg  
 Manufacturer:ELMARK

Number:9611LEDW1  
 Date:2017-06-15 10:49  
 Humidity:65.0%  
 Remarks:ESPL201611018\_3538

**Spectrum Test Report**



**Color Parameters:**

Chromaticity Coordinate:  $x=0.3840$   $y=0.3835/u'=0.2247$   $v'=0.5051$

CCT=3955K(Duv=0.0021) Dominant WL:Ld =578.2nm Purity=30.3%

Ratio:R=18.7% G=77.7% B=3.7%;;Peak WL:Lp=597.5nm FWHM=156.8nm

Render Index:Ra=84.9

R1 =83	R2 =90	R3 =95	R4 =85	R5 =83	R6 =86	R7 =88	
R8 =69	R9 =19	R10=75	R11=84	R12=67	R13=85	R14=97	R15=78

**Photo Parameters:**

Flux = 175.7 lm Eff. : 51.18 lm/W Fe = 542.5 mW

**Electrical parameters:**

V = 229.99 V I = 0.01973 A P = 3.434 W PF = 0.7568

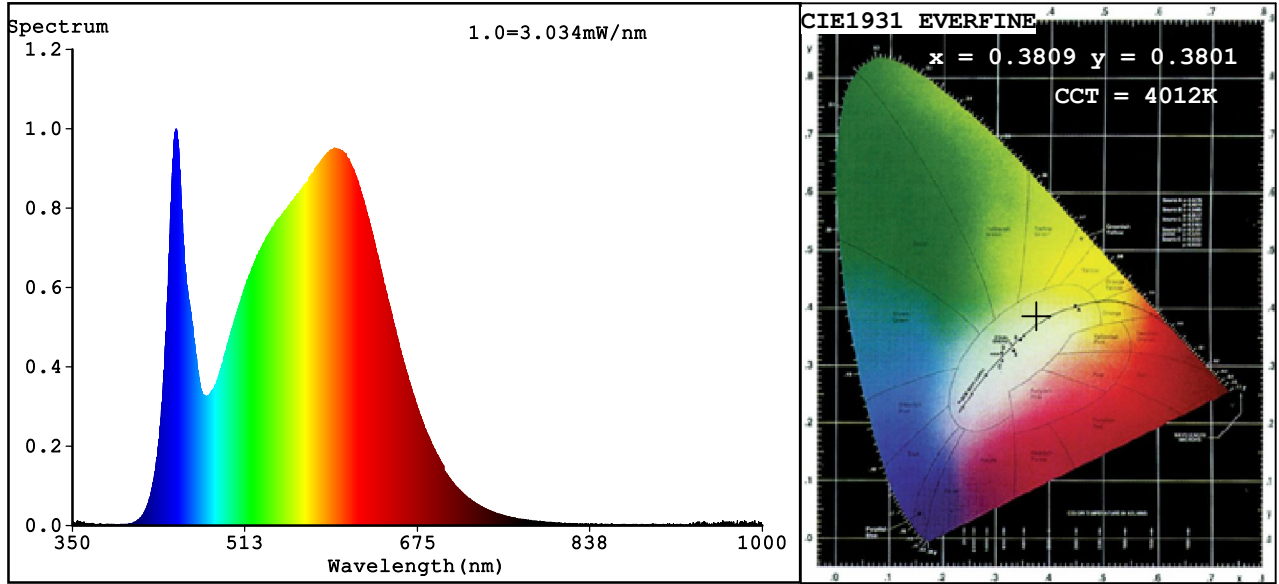
WHITE:ANSI\_4000K

Status: Integral T = 225 ms Ip = 34489 (53%)

Model:OL9611-W1 LED/3W  
Tester:Petya Marinova  
Temperature:25.3Deg  
Manufacturer:ELMARK

Number:9611LEDW1  
Date:2017-06-15 11:12  
Humidity:65.0%  
Remarks:ESPL201611018\_3538

**Spectrum Test Report**



**Color Parameters:**

Chromaticity Coordinate:  $x=0.3809$   $y=0.3801$   $u'=0.2241$   $v'=0.5031$

CCT=4012K(Duv=0.0014) Dominant WL:Ld =578.3nm Purity=28.4%

Ratio:R=18.6% G=77.7% B=3.8%;;Peak WL:Lp=447.9nm FWHM=24.8nm

Render Index:Ra=85.2

R1 =84	R2 =90	R3 =95	R4 =85	R5 =84	R6 =86	R7 =88	
R8 =70	R9 =20	R10=76	R11=84	R12=67	R13=85	R14=97	R15=78

**Photo Parameters:**

Flux = 170.5 lm Eff. : 49.97 lm/W Fe = 528.9 mW

**Electrical parameters:**

V = 230.02 V I = 0.01947 A P = 3.413 W PF = 0.7621

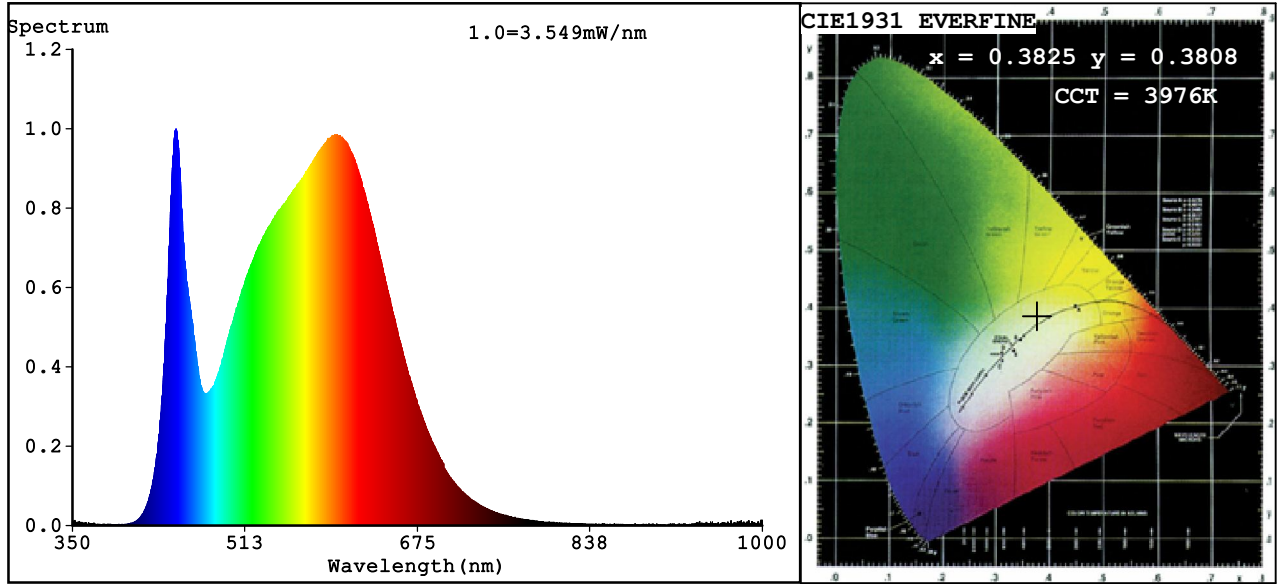
WHITE:ANSI\_4000K

Status: Integral T = 225 ms Ip = 33258 (51%)

Model:OL9611-W1 LED/3W  
Tester:Petya Marinova  
Temperature:25.3Deg  
Manufacturer:ELMARK

Number:9611LEDW1  
Date:2017-06-15 11:40  
Humidity:65.0%  
Remarks:ESPL201611018\_3538

**Spectrum Test Report**



**Color Parameters:**

Chromaticity Coordinate:  $x=0.3825$   $y=0.3808$   $u'=0.2248$   $v'=0.5037$   
 CCT=3976K(Duv=0.0013) Dominant WL:Ld =578.5nm Purity=29.1%  
 Ratio:R=18.7% G=77.6% B=3.7%;; Peak WL:Lp=447.5nm FWHM=25.3nm  
 Render Index:Ra=85.2  
 R1 =84    R2 =90    R3 =95    R4 =85    R5 =84    R6 =86    R7 =88  
 R8 =69    R9 =20    R10=76    R11=84    R12=68    R13=85    R14=97    R15=78

**Photo Parameters:**

Flux = 205.3 lm    Eff. : 59.74 lm/W    Fe = 636.8 mW

**Electrical parameters:**

V = 230.01 V    I = 0.01949 A    P = 3.436 W PF = 0.7663

WHITE:ANSI\_4000K

Status: Integral T = 225 ms    Ip = 40226 (61%)

Model:OL9611-W1 LED/3W  
 Tester:Petya Marinova  
 Temperature:25.3Deg  
 Manufacturer:ELMARK

Number:9611LEDW1  
 Date:2017-06-15 11:50  
 Humidity:65.0%  
 Remarks:ESPL201611018\_3538