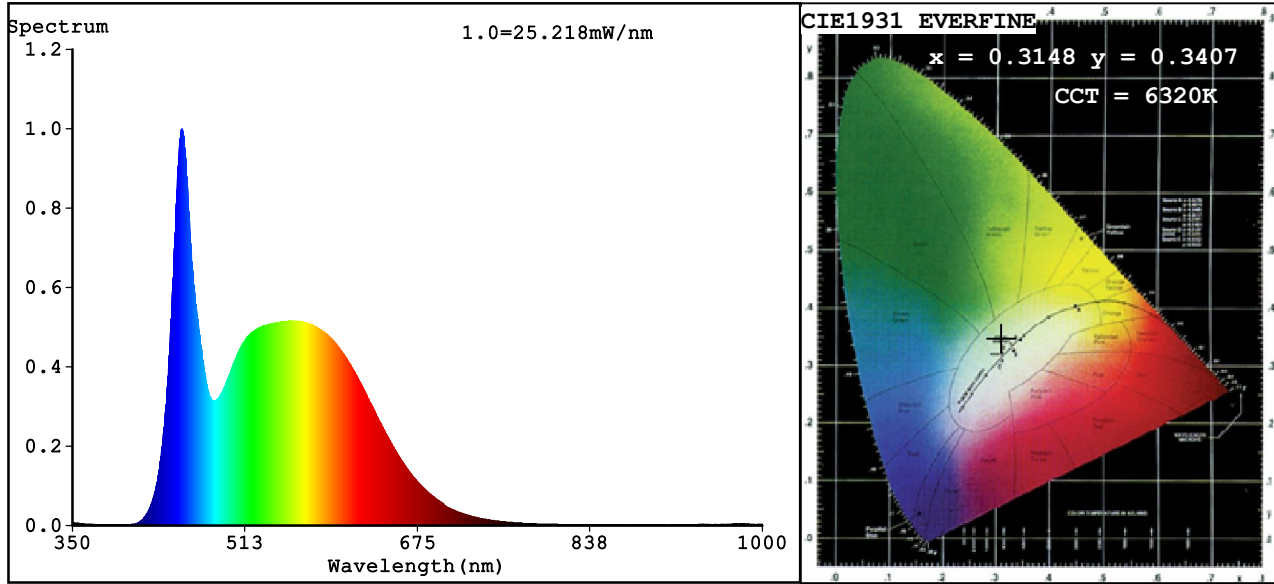


**Spectrum Test Report**



**Color Parameters:**

Chromaticity Coordinate:  $x=0.3148$   $y=0.3407$  /  $u'=0.1950$   $v'=0.4748$   
 CCT=6320K (Duv=0.0081) Dominant WL:Ld =496.9nm Purity=5.8%  
 Ratio:R=13.4% G=80.6% B=6.0%; Peak WL:Lp=453.3nm FWHM=26.1nm  
 Render Index:Ra=83.9  
 R1 =81 R2 =90 R3 =95 R4 =81 R5 =82 R6 =86 R7 =88  
 R8 =69 R9 =7 R10=76 R11=80 R12=59 R13=84 R14=97 R15=75

**Photo Parameters:**

Flux = 857.5 lm Eff. : 98.59 lm/W Fe = 2.755 W

**Electrical parameters:**

V = 229.96 V I = 0.06812 A P = 8.697 W PF = 0.5552

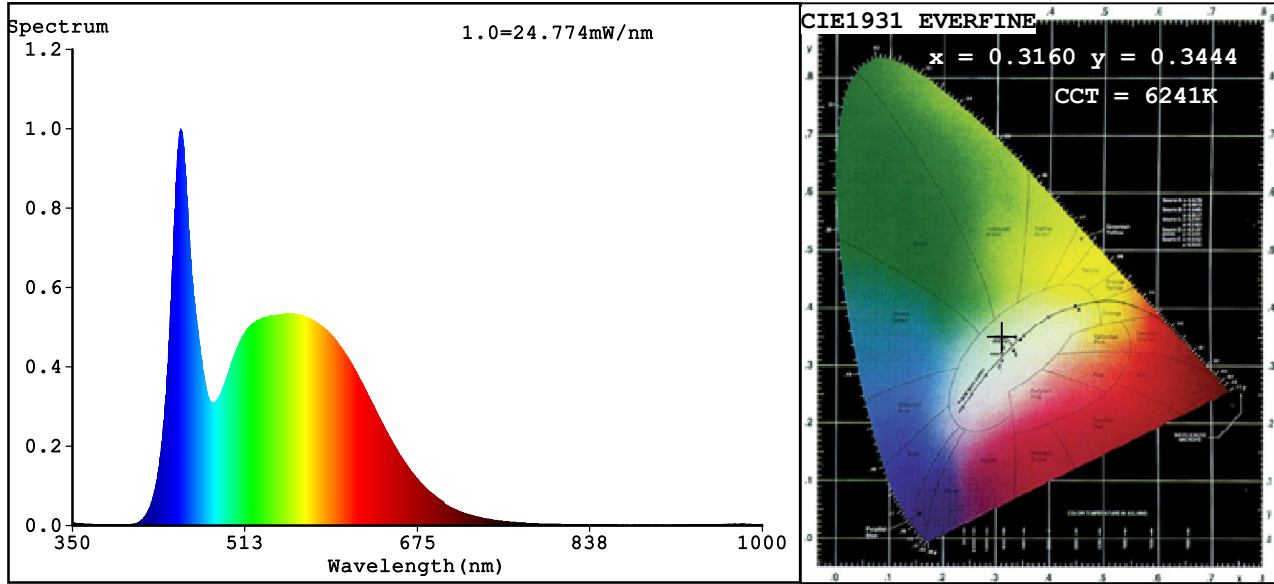
WHITE:ANSI\_6500K

Status: Integral T = 46 ms Ip = 51313 (78%)

Model:LED GLOBE P45/20W  
 Tester:Petya Marinova  
 Temperature:25.3Deg  
 Manufacturer:ELMARK

Number:99LED911CW  
 Date:2018-03-30 16:11  
 Humidity:65.0%  
 Remarks:017V055B\_4288

**Spectrum Test Report**



**Color Parameters:**

Chromaticity Coordinate:  $x=0.3160$   $y=0.3444$   $u'=0.1945$   $v'=0.4768$   
 CCT=6241K(Duv=0.0093) Dominant WL:Ld =500.1nm Purity=5.3%  
 Ratio:R=13.2% G=81.0% B=5.8%;;Peak WL:Lp=452.0nm FWHM=25.6nm  
 Render Index:Ra=83.2  
 R1 =80 R2 =88 R3 =94 R4 =81 R5 =81 R6 =84 R7 =89  
 R8 =68 R9 =4 R10=73 R11=80 R12=59 R13=82 R14=97 R15=74

**Photo Parameters:**

Flux = 866.4 lm Eff. : 99.65 lm/W Fe = 2.764 W

**Electrical parameters:**

V = 229.96 V I = 0.06835 A P = 8.695 W PF = 0.5532

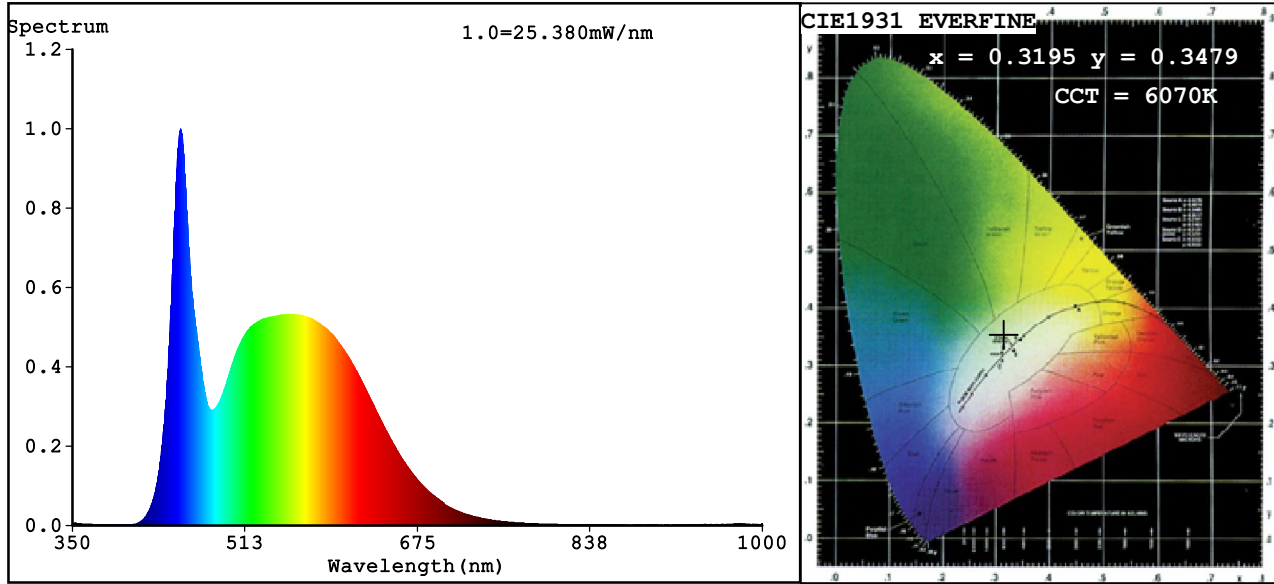
WHITE:OUT

Status: Integral T = 46 ms Ip = 49879 (76%)

Model:LED GLOBE P45/20W  
 Tester:Petya Marinova  
 Temperature:25.3Deg  
 Manufacturer:ELMARK

Number:99LED911CW  
 Date:2018-03-30 16:14  
 Humidity:65.0%  
 Remarks:017V055B\_4288

**Spectrum Test Report**



**Color Parameters:**

Chromaticity Coordinate:  $x=0.3195$   $y=0.3479$  /  $u'=0.1955$   $v'=0.4790$   
CCT=6070K (Duv=0.0094) Dominant WL:Ld =506.1nm Purity=4.2%  
Ratio:R=13.4% G=81.0% B=5.6%; Peak WL:Lp=452.0nm FWHM=24.0nm  
Render Index:Ra=82.8  
R1 =79    R2 =88    R3 =94    R4 =81    R5 =81    R6 =84    R7 =88  
R8 =68    R9 =2    R10=72    R11=80    R12=58    R13=82    R14=97    R15=73

**Photo Parameters:**

Flux = 885.1 lm    Eff. : 100.79 lm/W    Fe = 2.795 W

**Electrical parameters:**

V = 229.96 V    I = 0.06915 A    P = 8.782 W PF = 0.5522

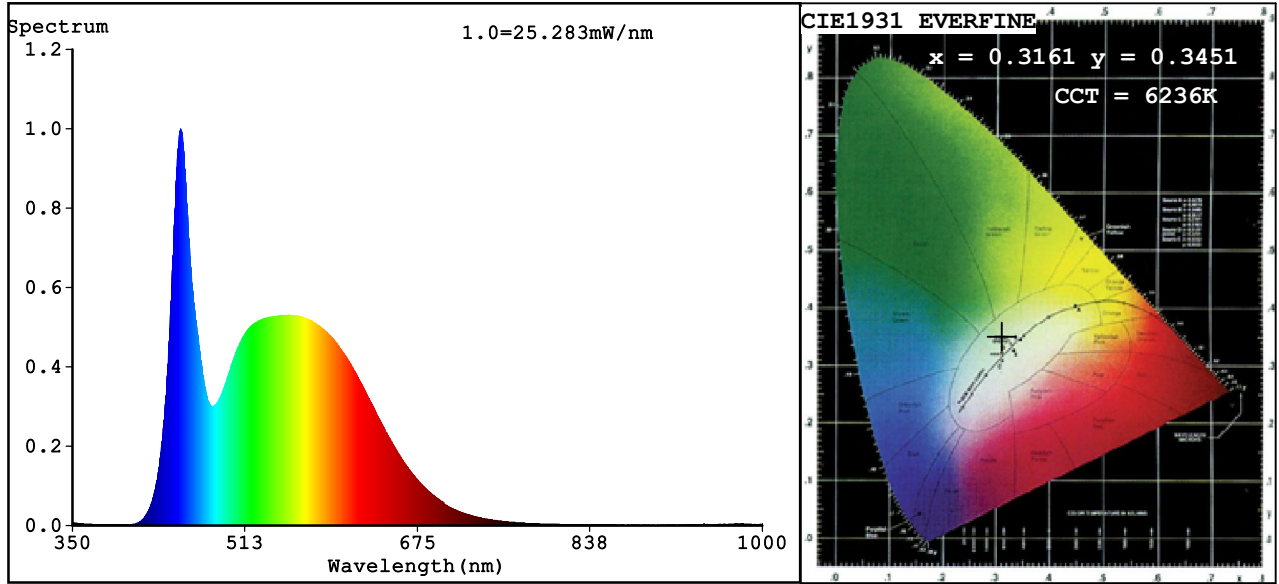
WHITE:OUT

Status: Integral T = 46 ms    Ip = 50953 (78%)

Model:LED GLOBE P45/20W  
Tester:Petya Marinova  
Temperature:25.3Deg  
Manufacturer:ELMARK

Number:99LED911CW  
Date:2018-03-30 16:15  
Humidity:65.0%  
Remarks:017V055B\_4288

**Spectrum Test Report**



**Color Parameters:**

Chromaticity Coordinate:  $x=0.3161$   $y=0.3451$   $u'=0.1943$   $v'=0.4772$

CCT=6236K(Duv=0.0096) Dominant WL:Ld =500.7nm Purity=5.3%

Ratio:R=13.2% G=81.1% B=5.7%;;Peak WL:Lp=452.0nm FWHM=24.9nm

Render Index:Ra=82.9

R1 =79	R2 =88	R3 =94	R4 =81	R5 =81	R6 =84	R7 =89	
R8 =68	R9 =3	R10=72	R11=80	R12=58	R13=82	R14=97	R15=73

**Photo Parameters:**

Flux = 876.9 lm Eff. : 102.09 lm/W Fe = 2.789 W

**Electrical parameters:**

V = 229.94 V I = 0.06791 A P = 8.589 W PF = 0.5500

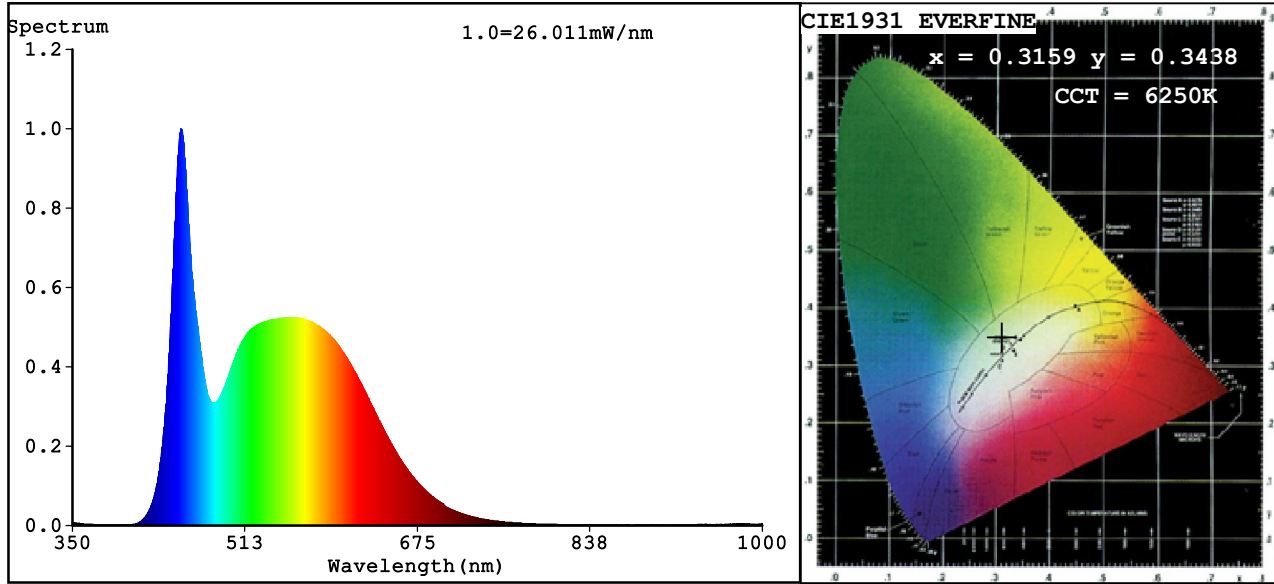
WHITE:OUT

Status: Integral T = 46 ms Ip = 50803 (78%)

Model:LED GLOBE P45/20W  
Tester:Petya Marinova  
Temperature:25.3Deg  
Manufacturer:ELMARK

Number:99LED911CW  
Date:2018-03-30 16:16  
Humidity:65.0%  
Remarks:017V055B\_4288

**Spectrum Test Report**



**Color Parameters:**

Chromaticity Coordinate:  $x=0.3159$   $y=0.3438$   $u'=0.1946$   $v'=0.4765$

CCT=6250K(Duv=0.0090) Dominant WL:Ld =499.6nm Purity=5.4%

Ratio:R=13.3% G=80.9% B=5.9%;;Peak WL:Lp=452.6nm FWHM=25.6nm

Render Index:Ra=83.1

R1 =80	R2 =89	R3 =94	R4 =81	R5 =81	R6 =85	R7 =88	
R8 =68	R9 =3	R10=74	R11=80	R12=59	R13=83	R14=97	R15=74

**Photo Parameters:**

Flux = 896.3 lm Eff. : 101.50 lm/W Fe = 2.852 W

**Electrical parameters:**

V = 229.96 V I = 0.06929 A P = 8.830 W PF = 0.5542

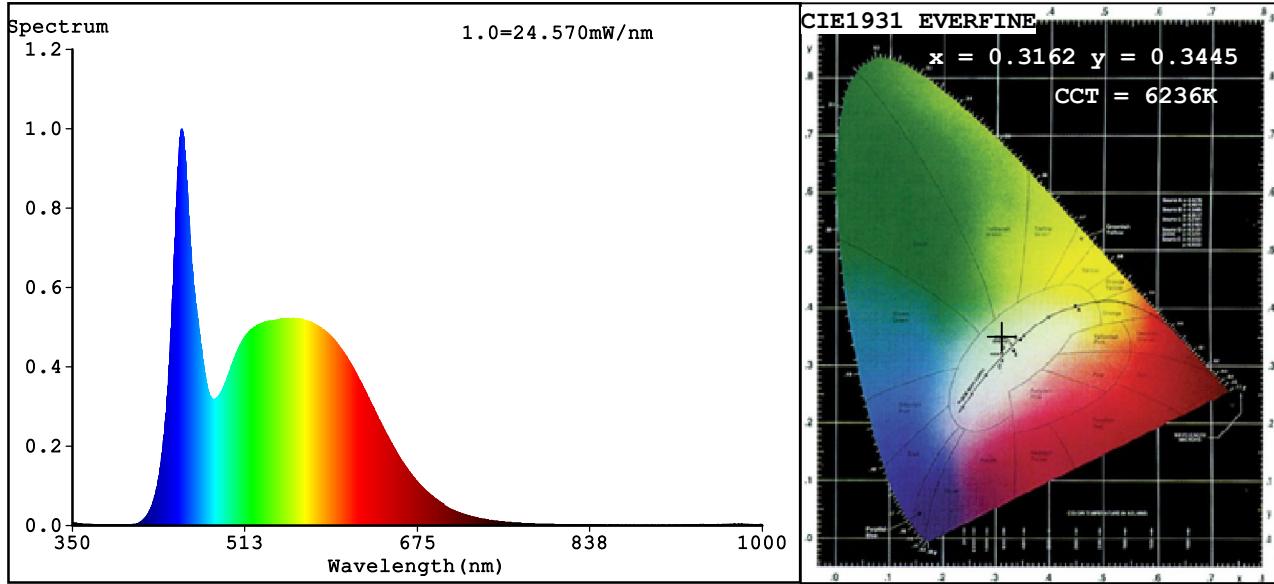
WHITE:OUT

Status: Integral T = 46 ms Ip = 52633 (80%)

Model:LED GLOBE P45/20W  
Tester:Petya Marinova  
Temperature:25.3Deg  
Manufacturer:ELMARK

Number:99LED911CW  
Date:2018-03-30 16:17  
Humidity:65.0%  
Remarks:017V055B\_4288

**Spectrum Test Report**



**Color Parameters:**

Chromaticity Coordinate:  $x=0.3162$   $y=0.3445$   $u'=0.1945$   $v'=0.4769$   
 CCT=6236K(Duv=0.0093) Dominant WL:Ld =500.3nm Purity=5.3%  
 Ratio:R=13.3% G=80.7% B=6.0%;;Peak WL:Lp=453.3nm FWHM=25.8nm  
 Render Index:Ra=83.4  
 R1 =80 R2 =89 R3 =95 R4 =80 R5 =81 R6 =86 R7 =88  
 R8 =68 R9 =4 R10=75 R11=80 R12=59 R13=83 R14=97 R15=74

**Photo Parameters:**

Flux = 846.0 lm Eff. : 102.17 lm/W Fe = 2.692 W

**Electrical parameters:**

V = 229.97 V I = 0.06569 A P = 8.281 W PF = 0.5482

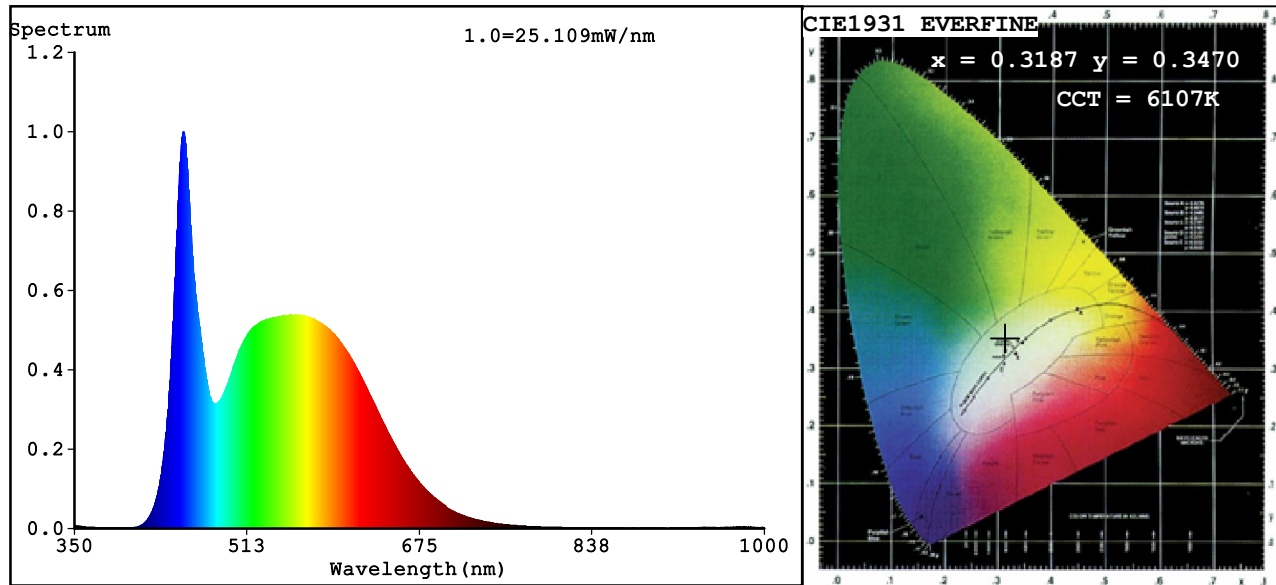
WHITE:OUT

Status: Integral T = 46 ms Ip = 49951 (76%)

Model:LED GLOBE P45/20W  
 Tester:Petya Marinova  
 Temperature:25.3Deg  
 Manufacturer:ELMARK

Number:99LED911CW  
 Date:2018-03-30 16:18  
 Humidity:65.0%  
 Remarks:017V055B\_4288

**Spectrum Test Report**



**Color Parameters:**

Chromaticity Coordinate:  $x=0.3187$   $y=0.3470$   $u'=0.1953$   $v'=0.4785$

CCT=6107K (Duv=0.0093) Dominant WL:Ld =504.4nm Purity=4.4%

Ratio:R=13.4% G=80.8% B=5.8%; Peak WL:Lp=452.7nm FWHM=25.6nm

Render Index:Ra=83.2

R1 =80	R2 =89	R3 =95	R4 =81	R5 =81	R6 =85	R7 =88	
R8 =68	R9 =4	R10=74	R11=80	R12=59	R13=83	R14=97	R15=74

**Photo Parameters:**

Flux = 889.3 lm Eff. : 100.69 lm/W Fe = 2.819 W

**Electrical parameters:**

V = 229.94 V I = 0.06949 A P = 8.832 W PF = 0.5527

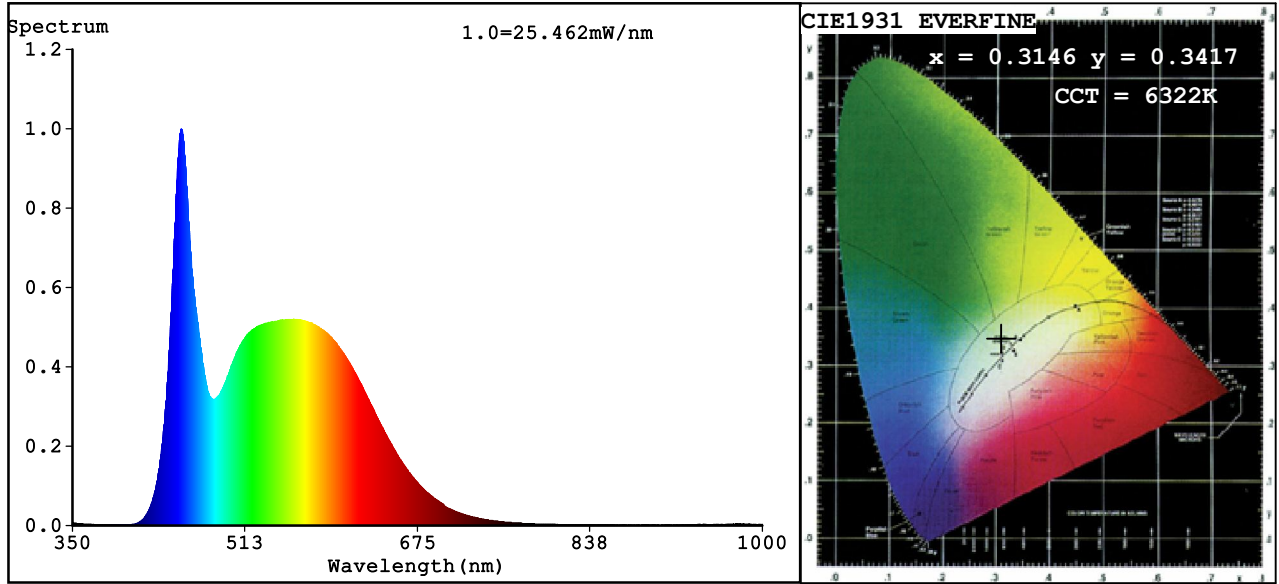
WHITE:OUT

Status: Integral T = 46 ms Ip = 50879 (78%)

Model:LED GLOBE P45/20W  
Tester:Petya Marinova  
Temperature:25.3Deg  
Manufacturer:ELMARK

Number:99LED911CW  
Date:2018-03-30 16:20  
Humidity:65.0%  
Remarks:017V055B\_4288

**Spectrum Test Report**



**Color Parameters:**

Chromaticity Coordinate:  $x=0.3146$   $y=0.3417/u'=0.1945$   $v'=0.4752$   
 CCT=6322K(Duv=0.0086) Dominant WL:Ld =497.5nm Purity=5.9%  
 Ratio:R=13.3% G=80.8% B=6.0%;;Peak WL:Lp=452.7nm FWHM=26.1nm  
 Render Index:Ra=83.5  
 R1 =80 R2 =89 R3 =95 R4 =81 R5 =81 R6 =85 R7 =88  
 R8 =68 R9 =4 R10=75 R11=80 R12=59 R13=83 R14=97 R15=75

**Photo Parameters:**

Flux = 872.4 lm Eff. : 98.38 lm/W Fe = 2.790 W

**Electrical parameters:**

V = 229.96 V I = 0.06927 A P = 8.867 W PF = 0.5567

WHITE:ANSI\_6500K

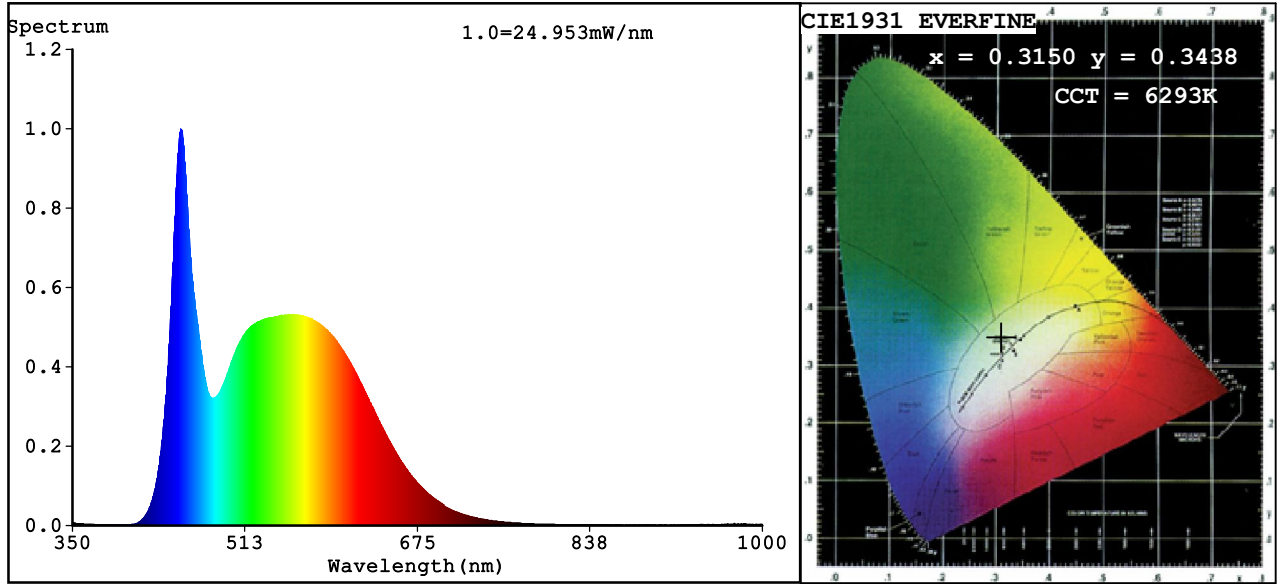
Status: Integral T = 46 ms Ip = 51572 (79%)

Model:LED GLOBE P45/20W  
 Tester:Petya Marinova  
 Temperature:25.3Deg  
 Manufacturer:ELMARK

Number:99LED911CW  
 Date:2018-03-30 16:22  
 Humidity:65.0%  
 Remarks:017V055B\_4288



**Spectrum Test Report**



**Color Parameters:**

Chromaticity Coordinate:  $x=0.3150$   $y=0.3438$   $u'=0.1940$   $v'=0.4764$   
 CCT=6293K(Duv=0.0095) Dominant WL:Ld =499.2nm Purity=5.7%  
 Ratio:R=13.1% G=81.0% B=5.9%;;Peak WL:Lp=452.0nm FWHM=26.1nm  
 Render Index:Ra=82.9  
 R1 =79 R2 =89 R3 =94 R4 =80 R5 =81 R6 =85 R7 =88  
 R8 =67 R9 =1 R10=73 R11=79 R12=59 R13=82 R14=97 R15=73

**Photo Parameters:**

Flux = 870.6 lm Eff. : 99.37 lm/W Fe = 2.766 W

**Electrical parameters:**

V = 229.96 V I = 0.06841 A P = 8.761 W PF = 0.5569

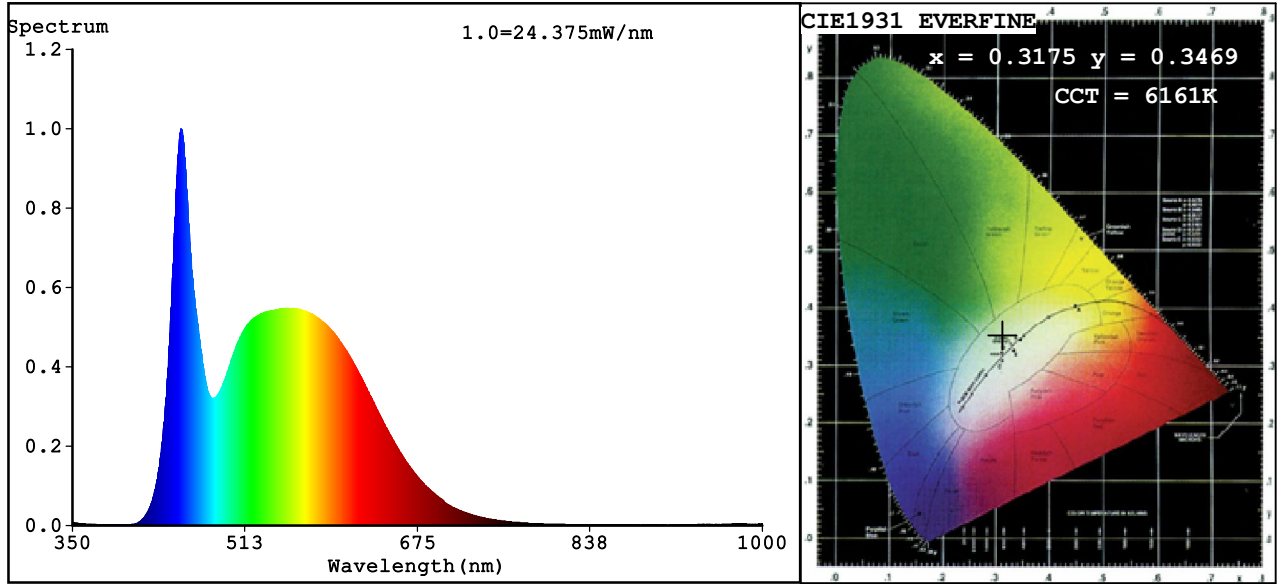
WHITE:OUT

Status: Integral T = 46 ms Ip = 50337 (77%)

Model:LED GLOBE P45/20W  
 Tester:Petya Marinova  
 Temperature:25.3Deg  
 Manufacturer:ELMARK

Number:99LED911CW  
 Date:2018-03-30 16:24  
 Humidity:65.0%  
 Remarks:017V055B\_4288

**Spectrum Test Report**



**Color Parameters:**

Chromaticity Coordinate:  $x=0.3175$   $y=0.3469$   $u'=0.1946$   $v'=0.4783$   
 CCT=6161K(Duv=0.0098) Dominant WL:Ld =503.3nm Purity=4.8%  
 Ratio:R=13.3% G=80.9% B=5.8%;;Peak WL:Lp=452.0nm FWHM=26.1nm  
 Render Index:Ra=83.1  
 R1 =80 R2 =88 R3 =94 R4 =81 R5 =81 R6 =85 R7 =89  
 R8 =68 R9 =4 R10=73 R11=80 R12=59 R13=82 R14=97 R15=74

**Photo Parameters:**

Flux = 875.1 lm Eff. : 101.40 lm/W Fe = 2.788 W

**Electrical parameters:**

V = 229.95 V I = 0.06816 A P = 8.631 W PF = 0.5506

WHITE:OUT

Status: Integral T = 46 ms Ip = 49296 (75%)

Model:LED GLOBE P45/20W  
 Tester:Petya Marinova  
 Temperature:25.3Deg  
 Manufacturer:ELMARK

Number:99LED911CW  
 Date:2018-03-30 16:25  
 Humidity:65.0%  
 Remarks:017V055B\_4288