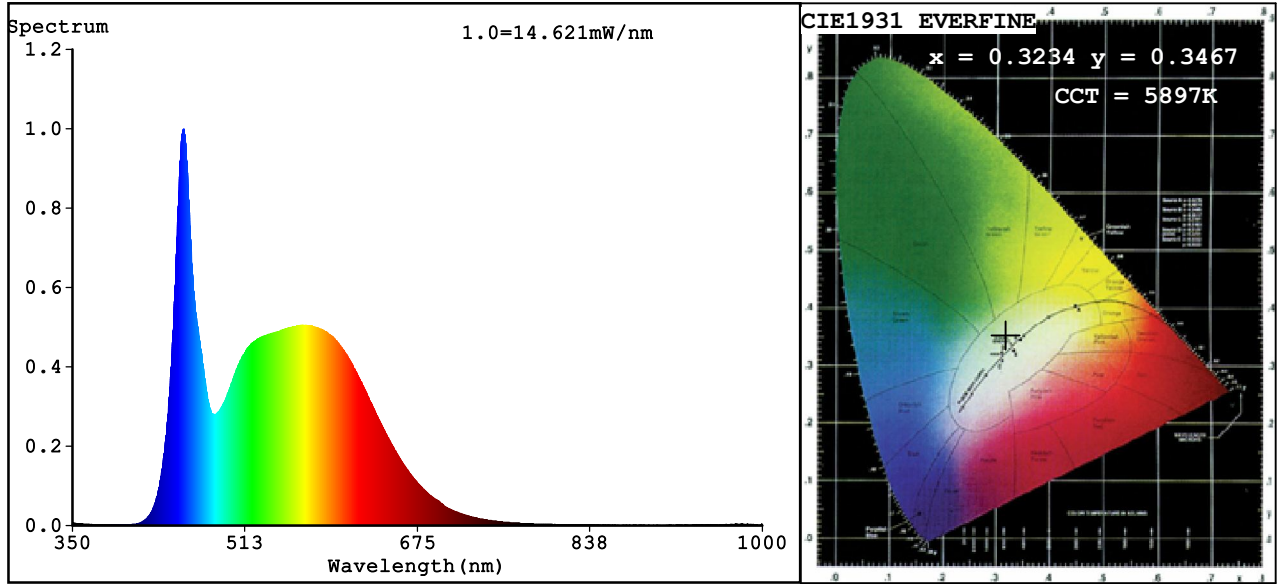


Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3234$ $y=0.3467/u'=0.1986$ $v'=0.4790$
 CCT=5897K(Duv=0.0070) Dominant WL:Ld =510.5nm Purity=3.1%
 Ratio:R=13.9% G=80.4% B=5.7%;;Peak WL:Lp=455.0nm FWHM=22.9nm
 Render Index:Ra=83.5
 R1 =81 R2 =90 R3 =95 R4 =80 R5 =82 R6 =86 R7 =87
 R8 =67 R9 =5 R10=77 R11=80 R12=58 R13=84 R14=97 R15=75

Photo Parameters:

Flux = 484.2 lm Eff. : 124.80 lm/W Fe = 1.528 W

Electrical parameters:

V = 230.08 V I = 0.03497 A P = 3.879 W PF = 0.4822

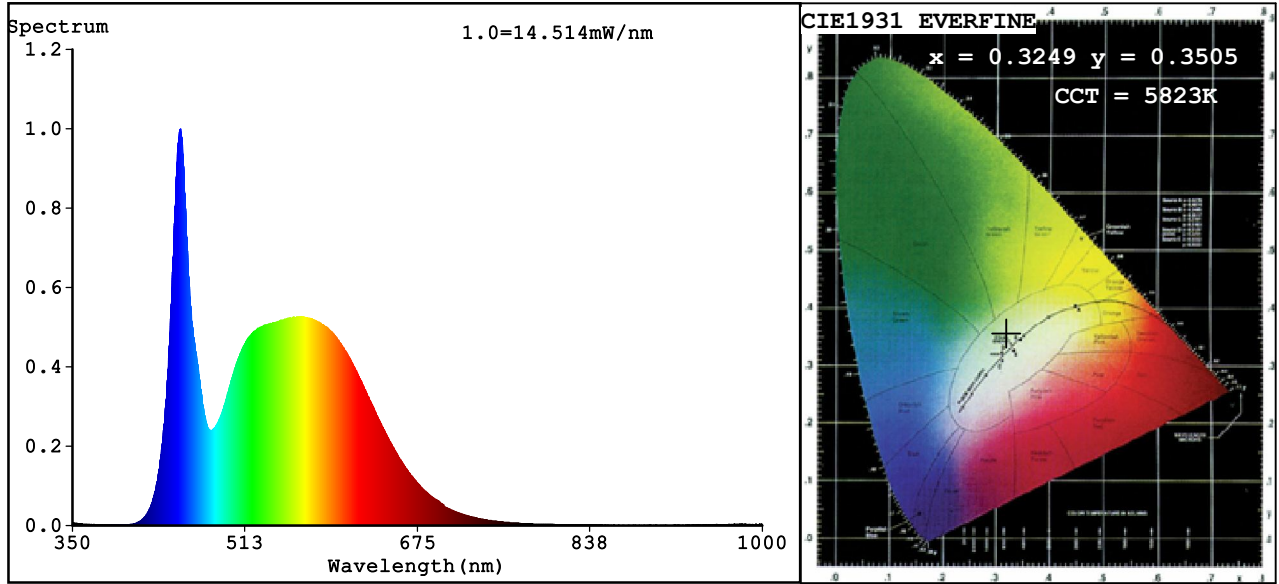
WHITE:ANSI_5700K

Status: Integral T = 77 ms Ip = 50543 (77%)

Model:LED G9/4W
 Tester:Petya Marinova
 Temperature:25.3Deg
 Manufacturer:ELMARK

Number:99LED817
 Date:2018-03-28 16:39
 Humidity:65.0%
 Remarks:017A045_4393

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3249$ $y=0.3505/u'=0.1982$ $v'=0.4811$
CCT=5823K(Duv=0.0081) Dominant WL:Ld =521.6nm Purity=3.4%
Ratio:R=13.6% G=81.3% B=5.1%;;Peak WL:Lp=451.9nm FWHM=21.0nm
Render Index:Ra=81.4
R1 =78 R2 =86 R3 =92 R4 =80 R5 =79 R6 =82 R7 =88
R8 =65 R9 =0 R10=68 R11=79 R12=57 R13=80 R14=96 R15=72

Photo Parameters:

Flux = 495.8 lm Eff. : 127.99 lm/W Fe = 1.540 W

Electrical parameters:

V = 229.95 V I = 0.03532 A P = 3.873 W PF = 0.4769

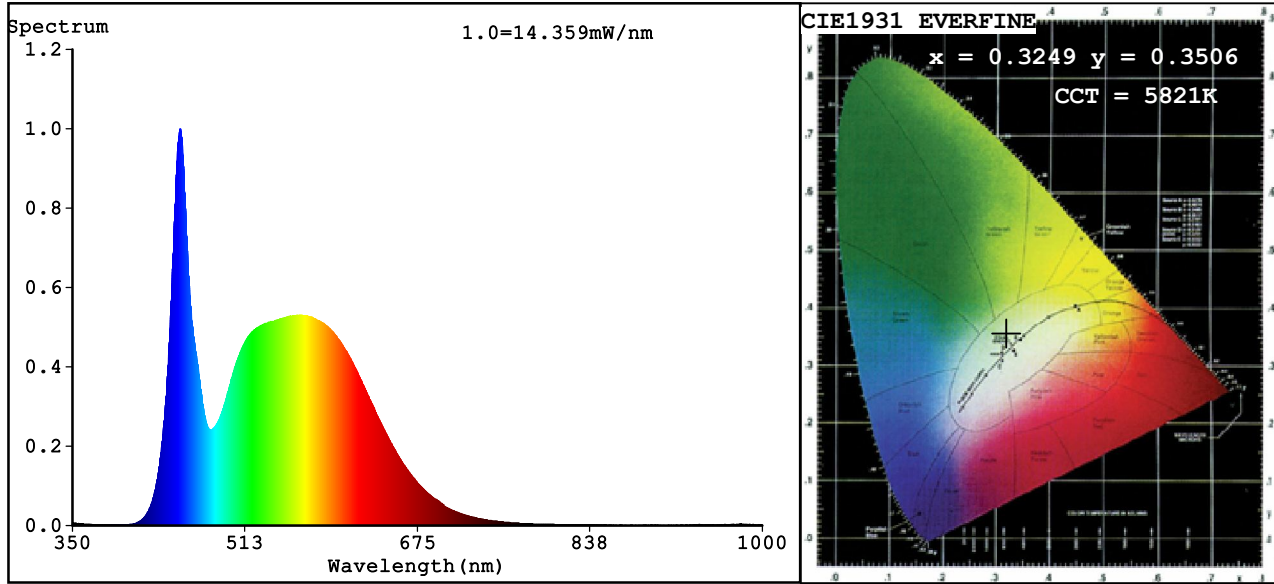
WHITE:OUT

Status: Integral T = 77 ms Ip = 48768 (74%)

Model:LED G9/4W
Tester:Petya Marinova
Temperature:25.3Deg
Manufacturer:ELMARK

Number:99LED817
Date:2018-03-28 16:44
Humidity:65.0%
Remarks:017A045_4393

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3249$ $y=0.3506$ $u'=0.1982$ $v'=0.4812$

CCT=5821K(Duv=0.0082) Dominant WL:Ld =522.1nm Purity=3.5%

Ratio:R=13.6% G=81.3% B=5.1%;;Peak WL:Lp=451.3nm FWHM=21.2nm

Render Index:Ra=81.3

R1 =78	R2 =86	R3 =92	R4 =80	R5 =79	R6 =82	R7 =88	
R8 =65	R9 =0	R10=68	R11=79	R12=57	R13=80	R14=96	R15=72

Photo Parameters:

Flux = 494.1 lm Eff. : 127.33 lm/W Fe = 1.534 W

Electrical parameters:

V = 229.86 V I = 0.03536 A P = 3.881 W PF = 0.4775

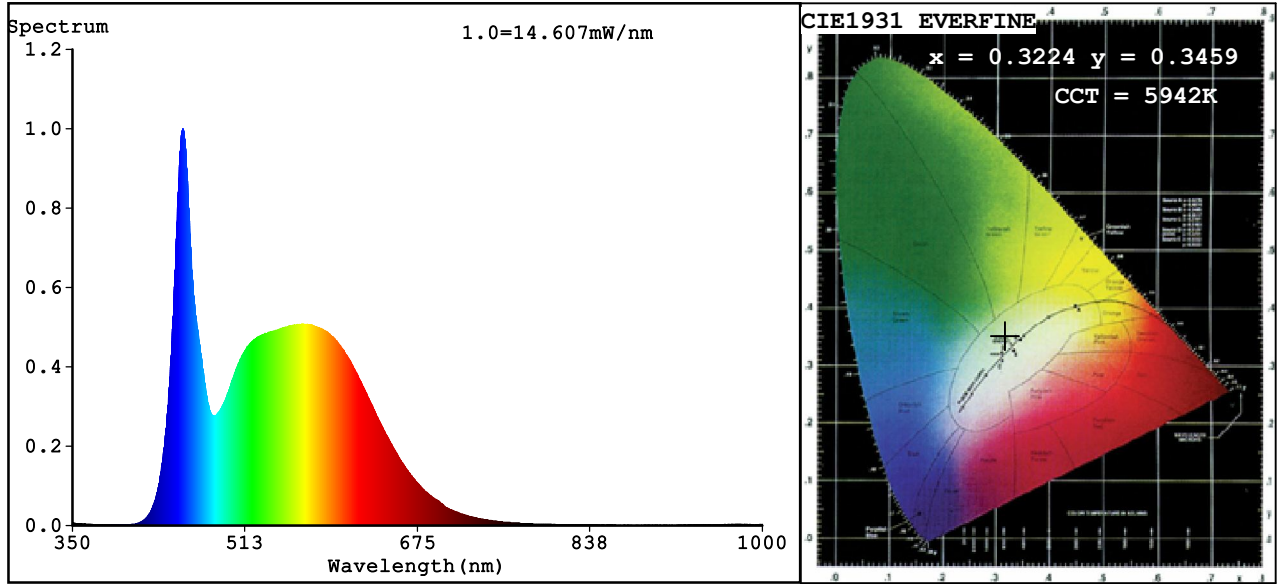
WHITE:OUT

Status: Integral T = 77 ms Ip = 48215 (74%)

Model:LED G9/4W
Tester:Petya Marinova
Temperature:25.3Deg
Manufacturer:ELMARK

Number:99LED817
Date:2018-03-29 08:37
Humidity:65.0%
Remarks:017A045_4393

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3224$ $y=0.3459$ $u'=0.1982$ $v'=0.4785$
 CCT=5942K(Duv=0.0070) Dominant WL:Ld =507.6nm Purity=3.4%
 Ratio:R=13.8% G=80.5% B=5.7%;; Peak WL:Lp=454.3nm FWHM=23.0nm
 Render Index:Ra=83.3
 R1 =81 R2 =90 R3 =94 R4 =80 R5 =81 R6 =85 R7 =87
 R8 =67 R9 =4 R10=75 R11=80 R12=58 R13=84 R14=97 R15=75

Photo Parameters:

Flux = 486.0 lm Eff. : 124.77 lm/W Fe = 1.534 W

Electrical parameters:

V = 229.87 V I = 0.03524 A P = 3.895 W PF = 0.4808

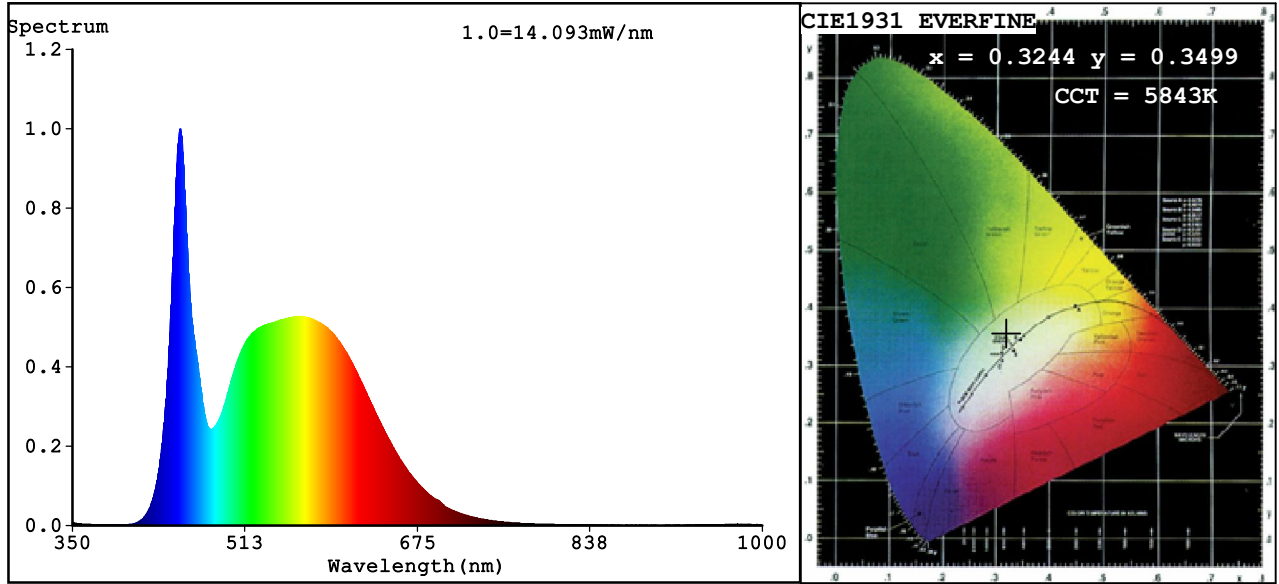
WHITE:ANSI_5700K

Status: Integral T = 77 ms Ip = 50215 (77%)

Model:LED G9/4W
 Tester:Petya Marinova
 Temperature:25.3Deg
 Manufacturer:ELMARK

Number:99LED817
 Date:2018-03-29 08:46
 Humidity:65.0%
 Remarks:017A045_4393

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3244$ $y=0.3499$ $u'=0.1981$ $v'=0.4808$

CCT=5843K (Duv=0.0081) Dominant WL:Ld =518.8nm Purity=3.3%

Ratio:R=13.6% G=81.3% B=5.1%;; Peak WL:Lp=451.9nm FWHM=21.3nm

Render Index:Ra=81.4

R1 =78	R2 =86	R3 =92	R4 =80	R5 =79	R6 =82	R7 =88	
R8 =65	R9 =0	R10=68	R11=79	R12=57	R13=80	R14=96	R15=72

Photo Parameters:

Flux = 481.7 lm Eff. : 127.28 lm/W Fe = 1.499 W

Electrical parameters:

V = 229.82 V I = 0.03463 A P = 3.785 W PF = 0.4755

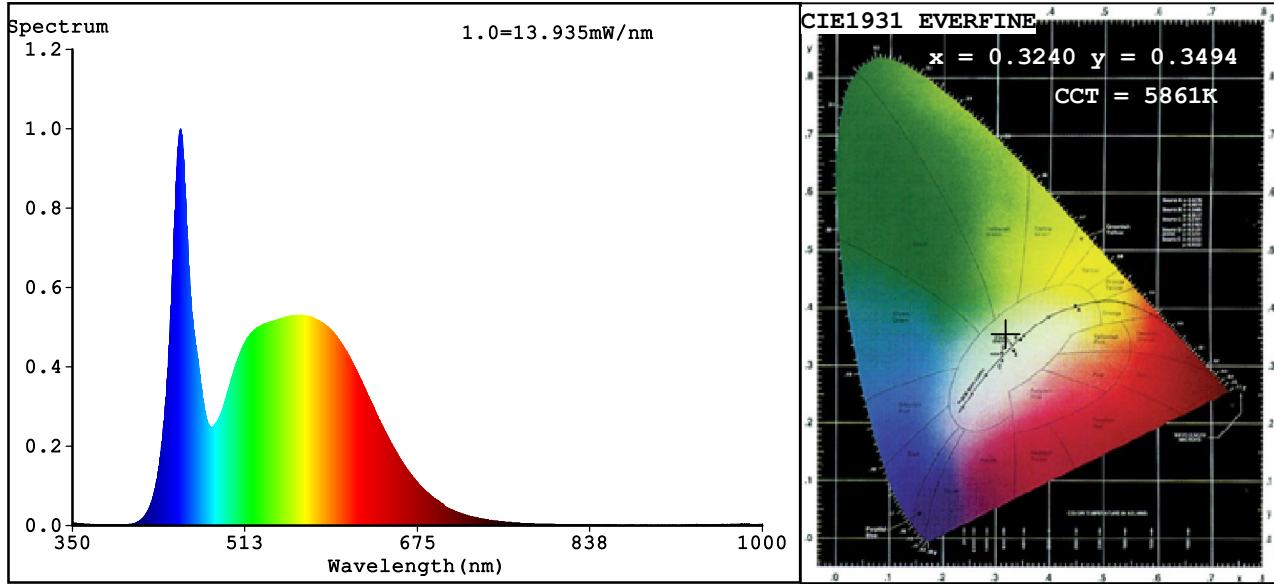
WHITE:OUT

Status: Integral T = 77 ms Ip = 47352 (72%)

Model:LED G9/4W
Tester:Petya Marinova
Temperature:25.3Deg
Manufacturer:ELMARK

Number:99LED817
Date:2018-03-29 08:55
Humidity:65.0%
Remarks:017A045_4393

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3240$ $y=0.3494/u'=0.1981$ $v'=0.4805$

CCT=5861K(Duv=0.0080) Dominant WL:Ld =516.7nm Purity=3.3%

Ratio:R=13.6% G=81.2% B=5.2%;;Peak WL:Lp=452.0nm FWHM=21.8nm

Render Index:Ra=81.5

R1 =78	R2 =86	R3 =93	R4 =80	R5 =80	R6 =82	R7 =88	
R8 =66	R9 =0	R10=68	R11=79	R12=57	R13=80	R14=96	R15=72

Photo Parameters:

Flux = 479.7 lm Eff. : 125.95 lm/W Fe = 1.495 W

Electrical parameters:

V = 229.87 V I = 0.03491 A P = 3.809 W PF = 0.4746

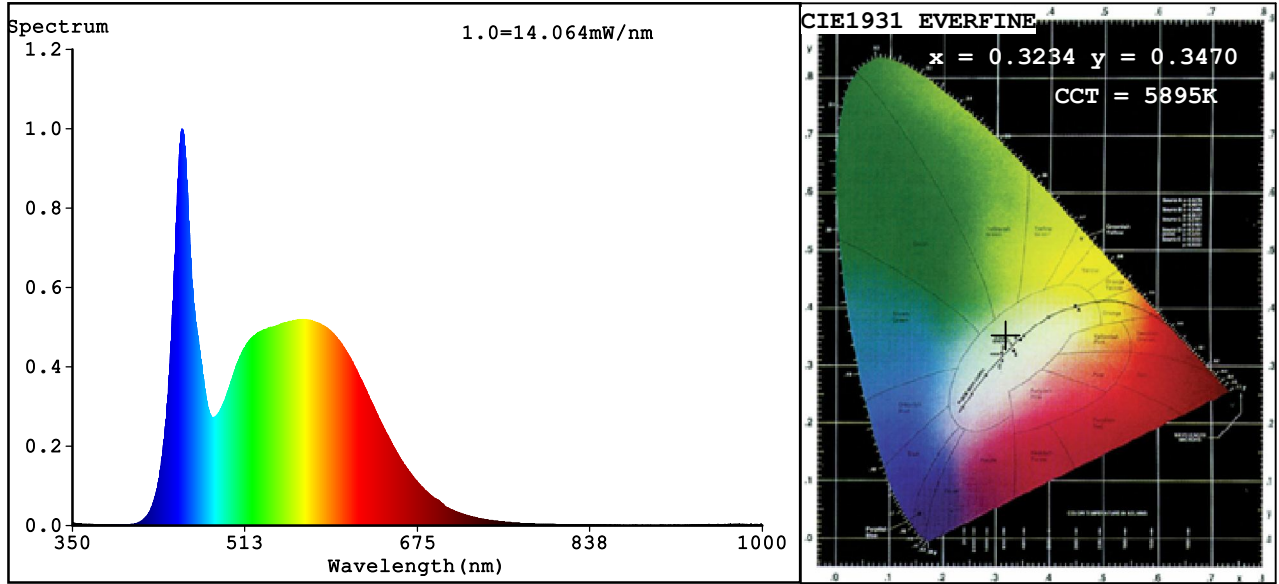
WHITE:OUT

Status: Integral T = 77 ms Ip = 46839 (71%)

Model:LED G9/4W
Tester:Petya Marinova
Temperature:25.3Deg
Manufacturer:ELMARK

Number:99LED817
Date:2018-03-29 08:59
Humidity:65.0%
Remarks:017A045_4393

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3234$ $y=0.3470$ / $u'=0.1985$ $v'=0.4792$
 CCT=5895K (Duv=0.0071) Dominant WL:Ld =511.1nm Purity=3.1%
 Ratio:R=13.8% G=80.7% B=5.5%;; Peak WL:Lp=453.3nm FWHM=23.0nm
 Render Index:Ra=83.0
 R1 =80 R2 =89 R3 =94 R4 =81 R5 =81 R6 =85 R7 =87
 R8 =67 R9 =3 R10=74 R11=80 R12=58 R13=83 R14=97 R15=74

Photo Parameters:

Flux = 477.3 lm Eff. : 125.09 lm/W Fe = 1.502 W

Electrical parameters:

V = 229.84 V I = 0.03467 A P = 3.816 W PF = 0.4788

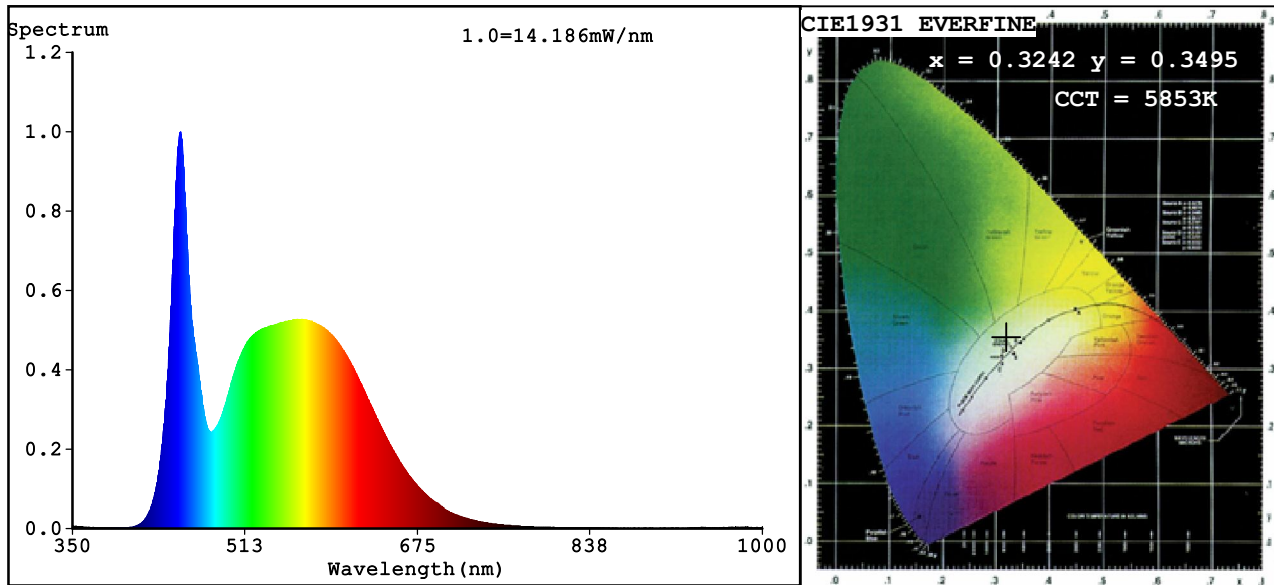
WHITE:ANSI_5700K

Status: Integral T = 77 ms Ip = 48085 (73%)

Model:LED G9/4W
 Tester:Petya Marinova
 Temperature:25.3Deg
 Manufacturer:ELMARK

Number:99LED817
 Date:2018-03-29 09:01
 Humidity:65.0%
 Remarks:017A045_4393

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3242$ $y=0.3495/u'=0.1981$ $v'=0.4806$

CCT=5853K(Duv=0.0080) Dominant WL:Ld =517.5nm Purity=3.3%

Ratio:R=13.6% G=81.3% B=5.1%;;Peak WL:Lp=451.9nm FWHM=21.4nm

Render Index:Ra=81.5

R1 =78 R2 =86 R3 =92 R4 =81 R5 =80 R6 =82 R7 =88

R8 =66 R9 =0 R10=68 R11=79 R12=57 R13=80 R14=96 R15=72

Photo Parameters:

Flux = 485.6 lm Eff. : 126.68 lm/W Fe = 1.512 W

Electrical parameters:

V = 229.83 V I = 0.03504 A P = 3.833 W PF = 0.4760

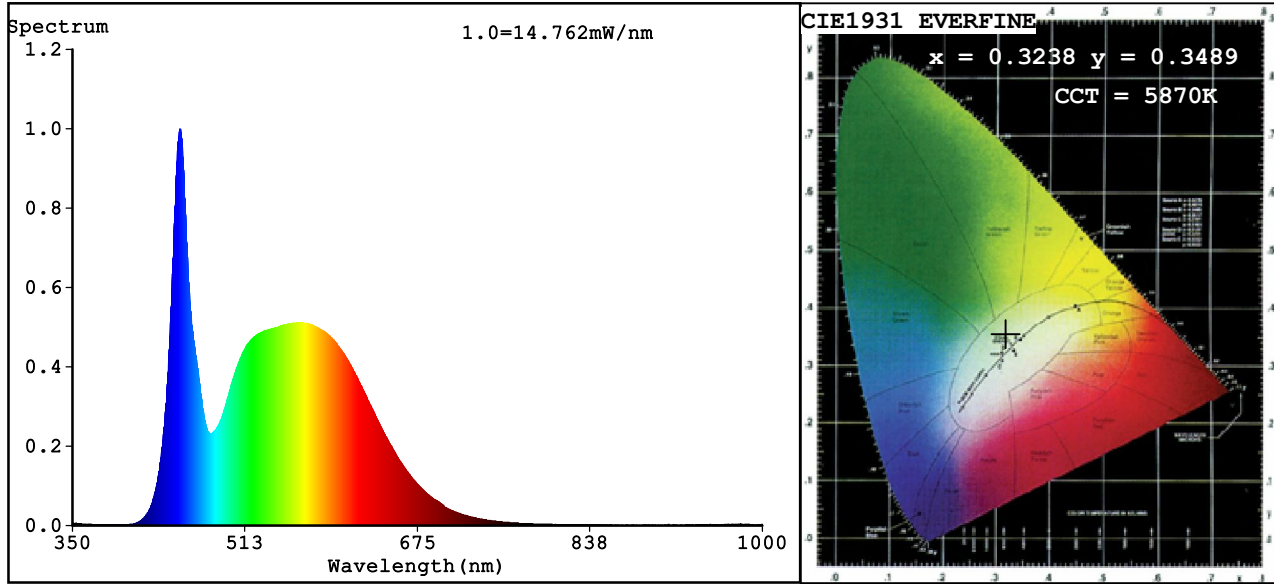
WHITE:OUT

Status: Integral T = 77 ms Ip = 47658 (73%)

Model:LED G9/4W
Tester:Petya Marinova
Temperature:25.3Deg
Manufacturer:ELMARK

Number:99LED817
Date:2018-03-29 09:04
Humidity:65.0%
Remarks:017A045_4393

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3238$ $y=0.3489$ $u'=0.1981$ $v'=0.4802$

CCT=5870K(Duv=0.0078) Dominant WL:Ld =515.2nm Purity=3.2%

Ratio:R=13.6% G=81.3% B=5.1%;;Peak WL:Lp=451.3nm FWHM=20.5nm

Render Index:Ra=81.4

R1 =78 R2 =86 R3 =92 R4 =81 R5 =79 R6 =82 R7 =88

R8 =66 R9 =0 R10=68 R11=80 R12=56 R13=80 R14=96 R15=72

Photo Parameters:

Flux = 489.7 lm Eff. : 128.85 lm/W Fe = 1.525 W

Electrical parameters:

V = 229.82 V I = 0.03478 A P = 3.800 W PF = 0.4754

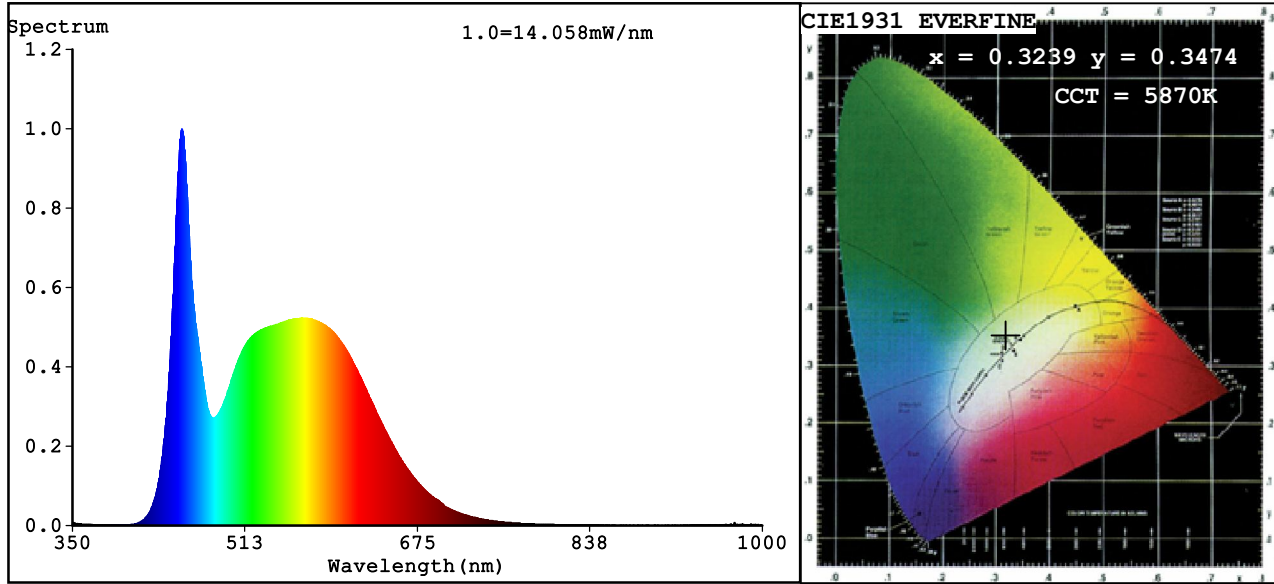
WHITE:ANSI_5700K

Status: Integral T = 77 ms Ip = 49579 (76%)

Model:LED G9/4W
Tester:Petya Marinova
Temperature:25.3Deg
Manufacturer:ELMARK

Number:99LED817
Date:2018-03-29 09:05
Humidity:65.0%
Remarks:017A045_4393

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3239$ $y=0.3474$ $u'=0.1987$ $v'=0.4795$
 CCT=5870K(Duv=0.0070) Dominant WL:Ld =512.9nm Purity=3.1%
 Ratio:R=13.9% G=80.7% B=5.5%;;Peak WL:Lp=453.3nm FWHM=23.1nm
 Render Index:Ra=82.9
 R1 =80 R2 =89 R3 =94 R4 =81 R5 =81 R6 =84 R7 =88
 R8 =67 R9 =3 R10=73 R11=80 R12=58 R13=83 R14=97 R15=74

Photo Parameters:

Flux = 480.6 lm Eff. : 124.27 lm/W Fe = 1.511 W

Electrical parameters:

V = 229.85 V I = 0.03508 A P = 3.867 W PF = 0.4796

WHITE:ANSI_5700K

Status: Integral T = 77 ms Ip = 47901 (73%)

Model:LED G9/4W
 Tester:Petya Marinova
 Temperature:25.3Deg
 Manufacturer:ELMARK

Number:99LED817
 Date:2018-03-29 09:14
 Humidity:65.0%
 Remarks:017A045_4393