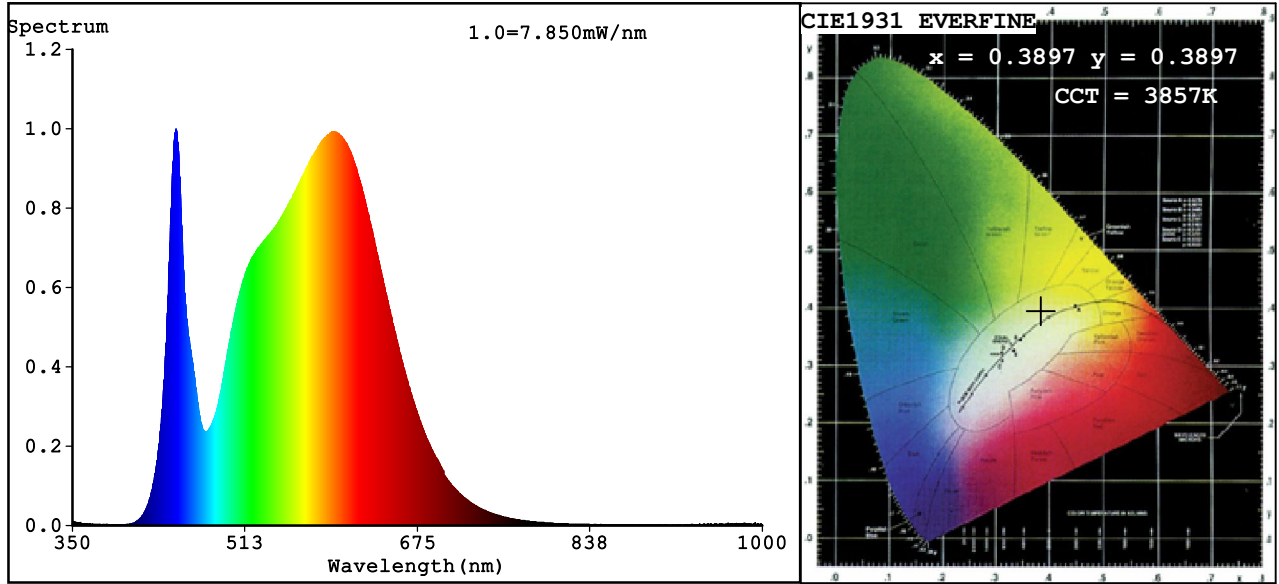


Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3897$ $y=0.3897/u'=0.2260$ $v'=0.5085$
 CCT=3857K(Duv=0.0034) Dominant WL:Ld =578.0nm Purity=33.9%
 Ratio:R=18.6% G=78.2% B=3.2%;;Peak WL:Lp=447.5nm FWHM=19.7nm
 Render Index:Ra=83.0
 R1 =81 R2 =88 R3 =94 R4 =83 R5 =81 R6 =84 R7 =87
 R8 =65 R9 =8 R10=72 R11=83 R12=64 R13=82 R14=97 R15=74

Photo Parameters:

Flux = 449.8 lm Eff. : 115.29 lm/W Fe = 1.353 W

Electrical parameters:

V = 229.89 V I = 0.03461 A P = 3.902 W PF = 0.4903

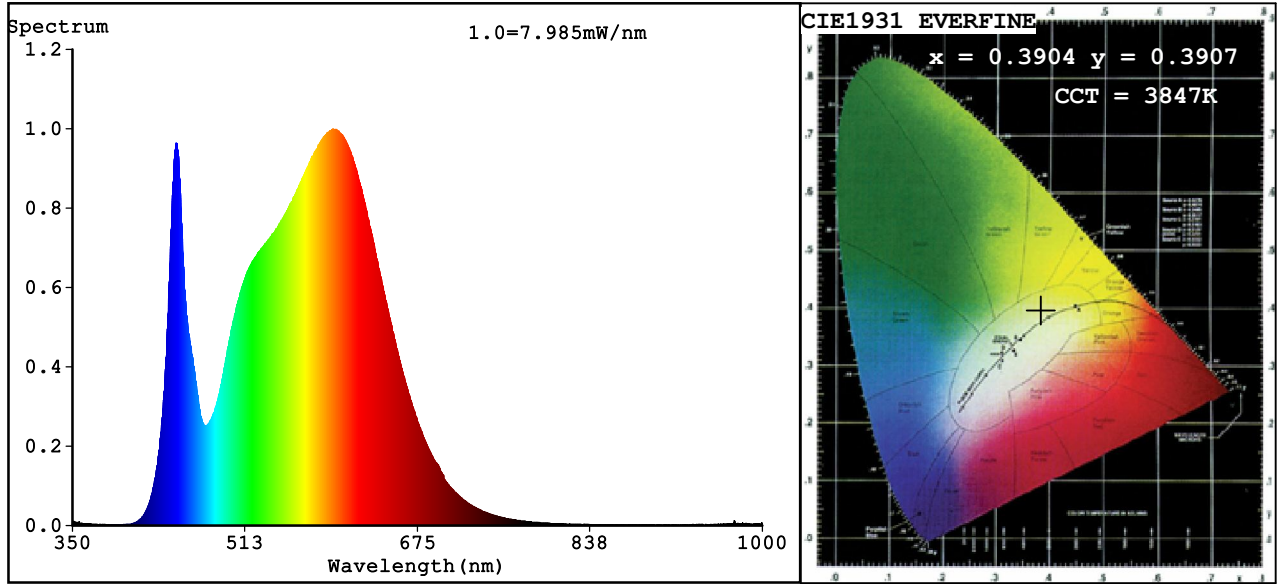
WHITE:ANSI_4000K

Status: Integral T = 79 ms Ip = 31096 (47%)

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

Number:99LED816
 Date:2018-03-28 13:43
 Humidity:65.0%
 Remarks:017A045_4393

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3904$ $y=0.3907/u'=0.2261$ $v'=0.5090$
 CCT=3847K(Duv=0.0036) Dominant WL:Ld =578.0nm Purity=34.4%
 Ratio:R=18.6% G=78.1% B=3.3%;;Peak WL:Lp=595.5nm FWHM=150.7nm
 Render Index:Ra=82.8
 R1 =80 R2 =88 R3 =95 R4 =83 R5 =81 R6 =85 R7 =86
 R8 =63 R9 =5 R10=73 R11=82 R12=64 R13=82 R14=97 R15=73

Photo Parameters:

Flux = 455.2 lm Eff. : 114.69 lm/W Fe = 1.358 W

Electrical parameters:

V = 229.90 V I = 0.03504 A P = 3.968 W PF = 0.4926

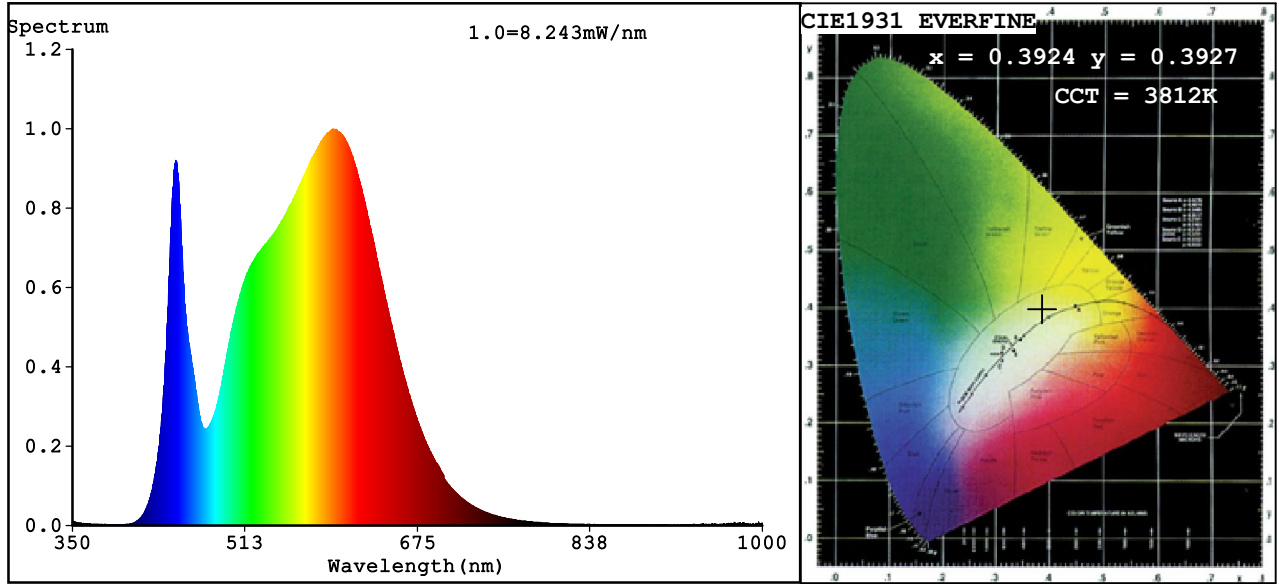
WHITE:ANSI_4000K

Status: Integral T = 79 ms Ip = 31764 (48%)

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

Number:99LED816
 Date:2018-03-28 13:47
 Humidity:65.0%
 Remarks:017A045_4393

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3924$ $y=0.3927/u'=0.2266$ $v'=0.5102$
 CCT=3812K(Duv=0.0040) Dominant WL:Ld =578.0nm Purity=35.7%
 Ratio:R=18.7% G=78.1% B=3.2%;;Peak WL:Lp=595.5nm FWHM=150.6nm
 Render Index:Ra=82.6
 R1 =80 R2 =88 R3 =95 R4 =83 R5 =81 R6 =84 R7 =86
 R8 =63 R9 =4 R10=72 R11=83 R12=65 R13=82 R14=97 R15=73

Photo Parameters:

Flux = 468.4 lm Eff. : 118.63 lm/W Fe = 1.394 W

Electrical parameters:

V = 229.89 V I = 0.03494 A P = 3.948 W PF = 0.4915

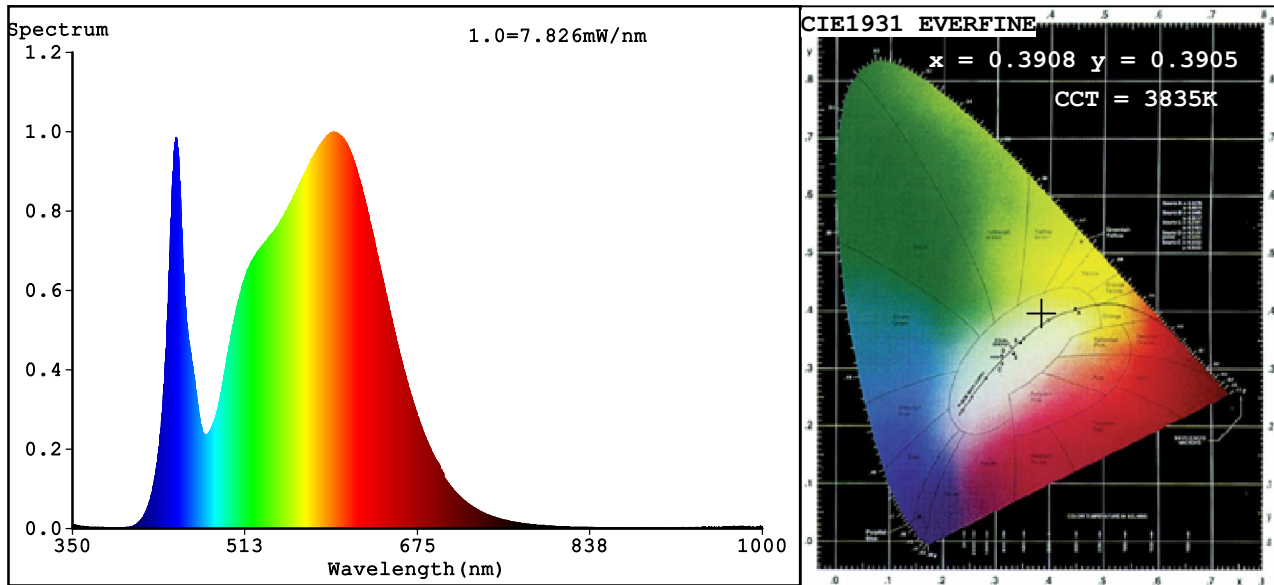
WHITE:ANSI_4000K

Status: Integral T = 79 ms Ip = 32756 (50%)

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

Number:99LED816
 Date:2018-03-28 13:49
 Humidity:65.0%
 Remarks:017A045_4393

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3908$ $y=0.3905$ $u'=0.2264$ $v'=0.5090$

CCT=3835K(Duv=0.0034) Dominant WL:Ld =578.1nm Purity=34.5%

Ratio:R=18.7% G=78.1% B=3.2%;;Peak WL:Lp=595.5nm FWHM=152.7nm

Render Index:Ra=83.1

R1 =81 R2 =88 R3 =95 R4 =83 R5 =81 R6 =84 R7 =87

R8 =65 R9 =9 R10=72 R11=83 R12=64 R13=82 R14=97 R15=74

Photo Parameters:

Flux = 450.3 lm Eff. : 113.92 lm/W Fe = 1.354 W

Electrical parameters:

V = 229.90 V I = 0.03490 A P = 3.952 W PF = 0.4925

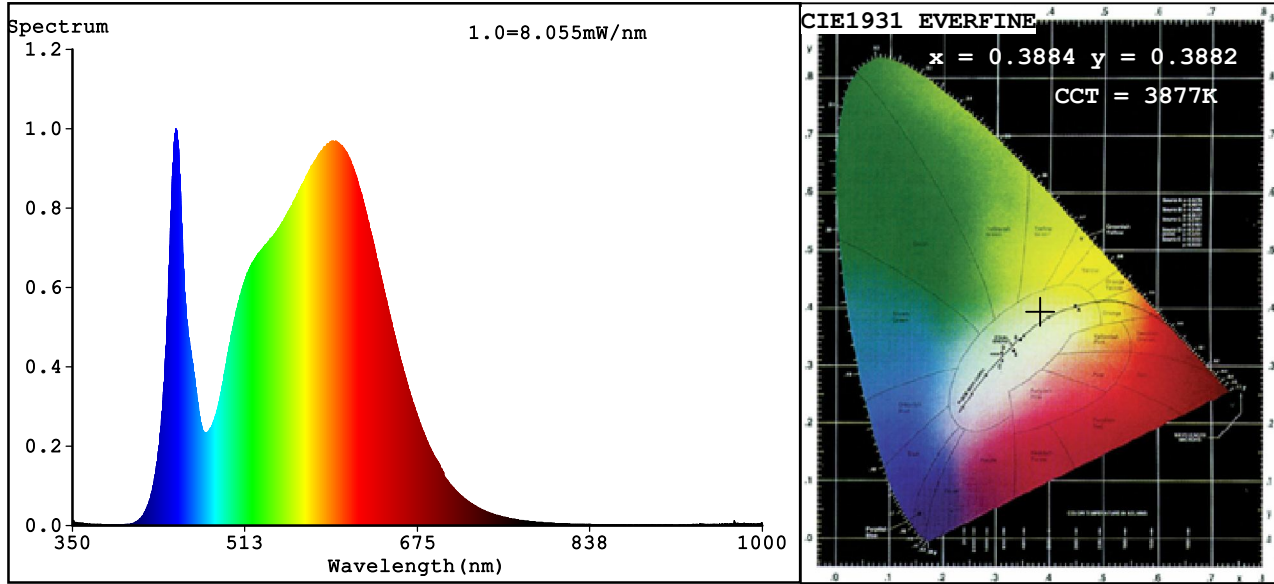
WHITE:ANSI_4000K

Status: Integral T = 79 ms Ip = 31159 (48%)

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

Number:99LED816
Date:2018-03-28 13:52
Humidity:65.0%
Remarks:017A045_4393

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3884$ $y=0.3882$ $u'=0.2258$ $v'=0.5077$

CCT=3877K(Duv=0.0030) Dominant WL:Ld =578.1nm Purity=33.1%

Ratio:R=18.6% G=78.2% B=3.3%;;Peak WL:Lp=447.5nm FWHM=19.4nm

Render Index:Ra=83.1

R1 =81 R2 =88 R3 =94 R4 =84 R5 =81 R6 =84 R7 =87

R8 =65 R9 =9 R10=72 R11=83 R12=64 R13=82 R14=97 R15=74

Photo Parameters:

Flux = 451.4 lm Eff. : 114.50 lm/W Fe = 1.361 W

Electrical parameters:

V = 229.90 V I = 0.03490 A P = 3.942 W PF = 0.4914

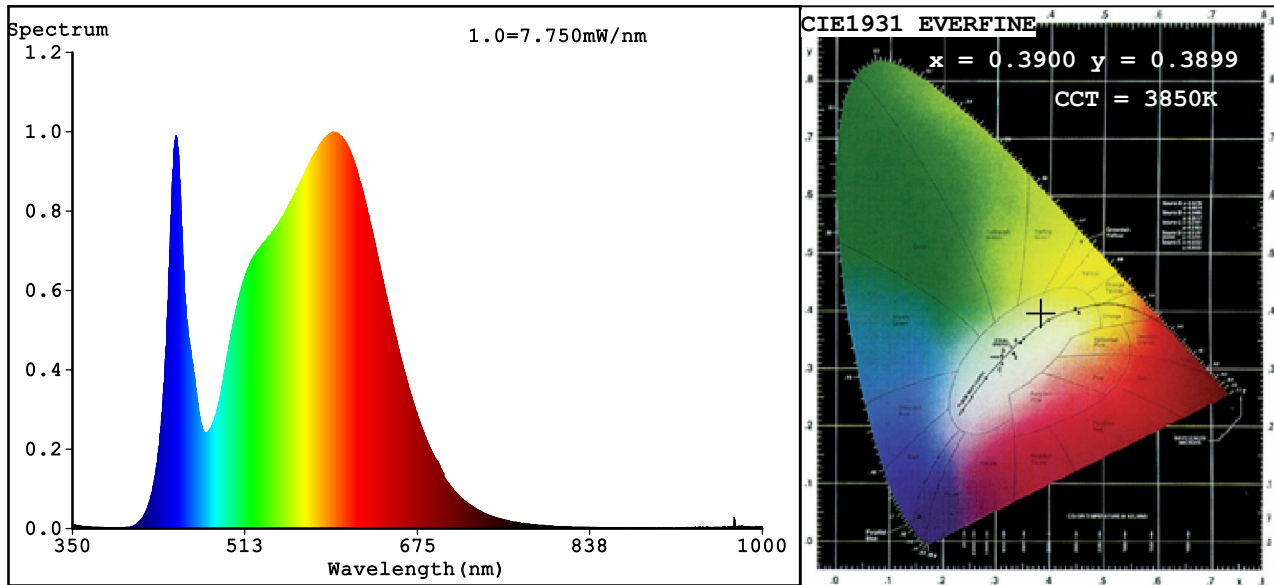
WHITE:ANSI_4000K

Status: Integral T = 79 ms Ip = 31157 (48%)

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

Number:99LED816
Date:2018-03-28 13:53
Humidity:65.0%
Remarks:017A045_4393

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3900$ $y=0.3899$ $u'=0.2261$ $v'=0.5086$

CCT=3850K(Duv=0.0034) Dominant WL:Ld =578.1nm Purity=34.1%

Ratio:R=18.7% G=78.1% B=3.2%;;Peak WL:Lp=595.5nm FWHM=152.7nm

Render Index:Ra=83.1

R1 =81 R2 =88 R3 =95 R4 =83 R5 =81 R6 =84 R7 =87

R8 =65 R9 =9 R10=72 R11=83 R12=64 R13=82 R14=97 R15=74

Photo Parameters:

Flux = 446.7 lm Eff. : 113.24 lm/W Fe = 1.345 W

Electrical parameters:

V = 229.88 V I = 0.03493 A P = 3.945 W PF = 0.4912

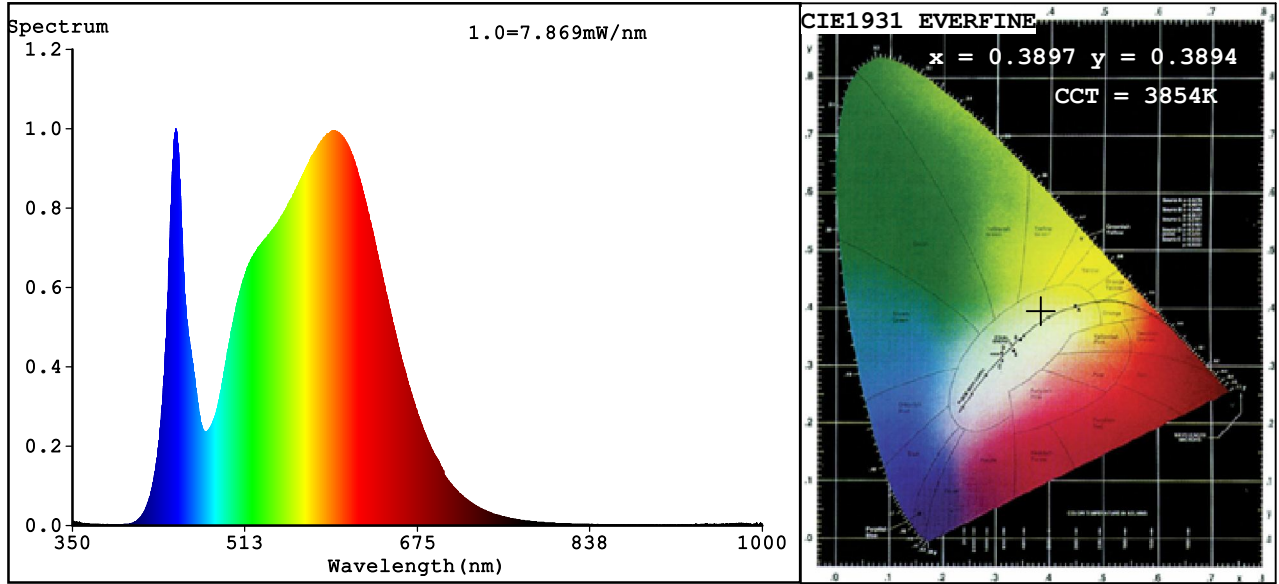
WHITE:ANSI_4000K

Status: Integral T = 79 ms Ip = 30880 (47%)

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

Number:99LED816
Date:2018-03-28 13:55
Humidity:65.0%
Remarks:017A045_4393

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3897$ $y=0.3894$ $u'=0.2261$ $v'=0.5084$
 CCT=3854K(Duv=0.0032) Dominant WL:Ld =578.1nm Purity=33.8%
 Ratio:R=18.6% G=78.1% B=3.2%;; Peak WL:Lp=447.5nm FWHM=19.8nm
 Render Index:Ra=83.0
 R1 =81 R2 =88 R3 =94 R4 =83 R5 =81 R6 =84 R7 =87
 R8 =65 R9 =9 R10=72 R11=83 R12=64 R13=82 R14=97 R15=74

Photo Parameters:

Flux = 451.8 lm Eff. : 114.68 lm/W Fe = 1.360 W

Electrical parameters:

V = 229.91 V I = 0.03493 A P = 3.939 W PF = 0.4906

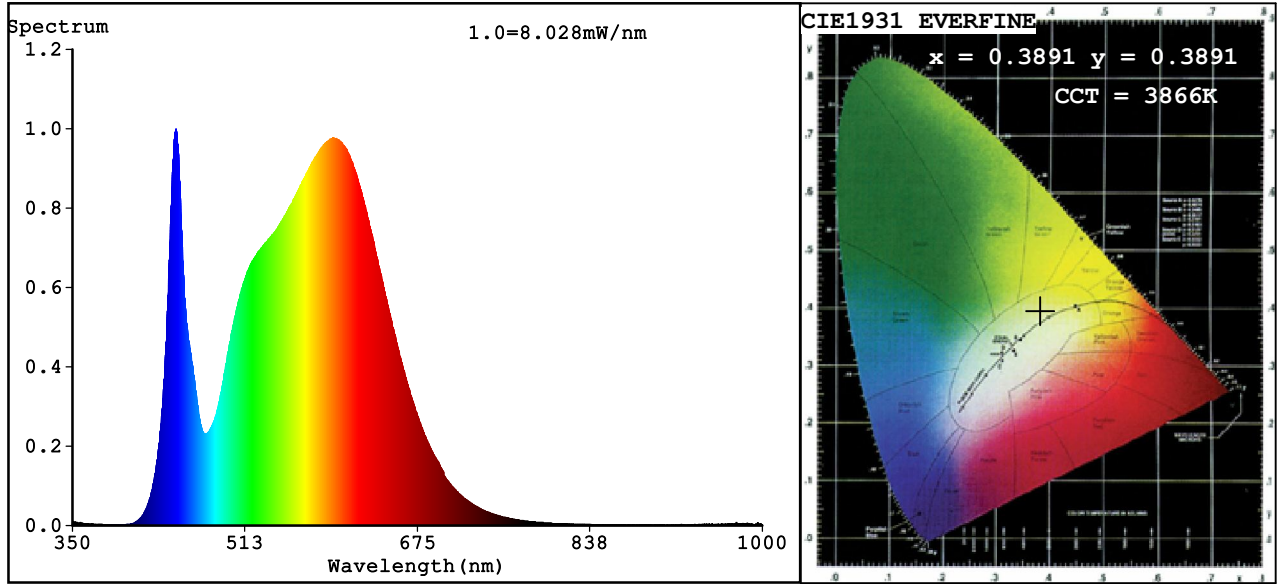
WHITE:ANSI_4000K

Status: Integral T = 79 ms Ip = 31227 (48%)

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

Number:99LED816
 Date:2018-03-28 14:01
 Humidity:65.0%
 Remarks:017A045_4393

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3891$ $y=0.3891/u'=0.2259$ $v'=0.5082$
CCT=3866K(Duv=0.0032) Dominant WL:Ld =578.1nm Purity=33.6%
Ratio:R=18.6% G=78.2% B=3.2%;;Peak WL:Lp=447.5nm FWHM=19.3nm
Render Index:Ra=83.0
R1 =81 R2 =88 R3 =94 R4 =83 R5 =81 R6 =84 R7 =87
R8 =65 R9 =8 R10=72 R11=83 R12=64 R13=82 R14=97 R15=74

Photo Parameters:

Flux = 453.1 lm Eff. : 114.31 lm/W Fe = 1.364 W

Electrical parameters:

V = 229.91 V I = 0.03500 A P = 3.964 W PF = 0.4925

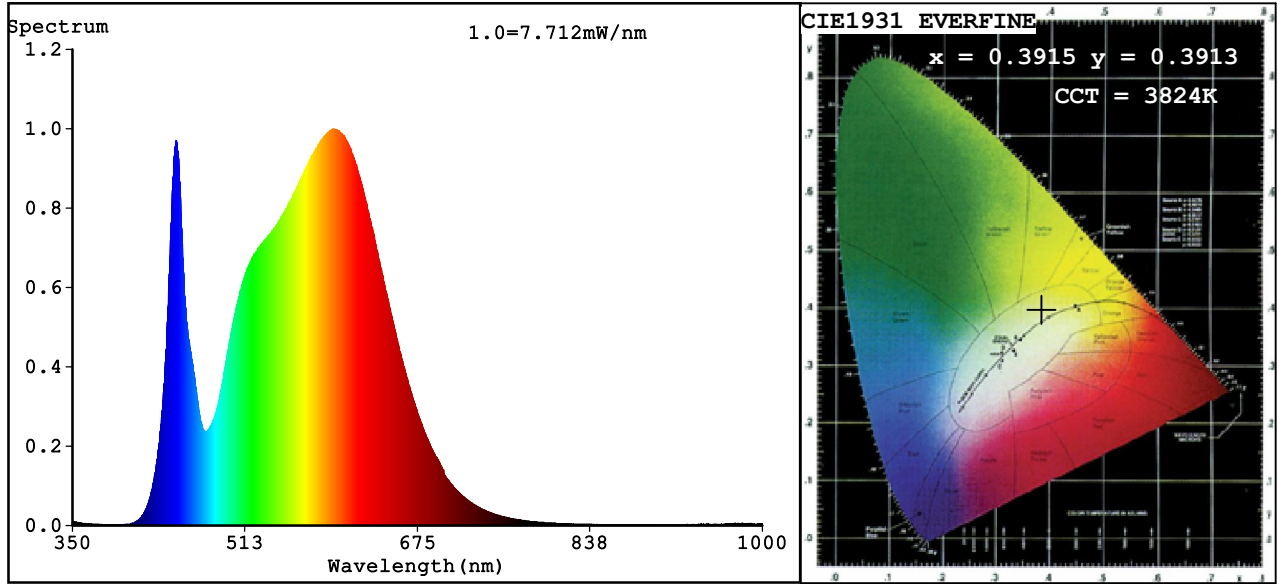
WHITE:ANSI_4000K

Status: Integral T = 79 ms Ip = 31300 (48%)

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

Number:99LED816
Date:2018-03-28 14:02
Humidity:65.0%
Remarks:017A045_4393

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3915$ $y=0.3913$ $u'=0.2265$ $v'=0.5095$

CCT=3824K(Duv=0.0036) Dominant WL:Ld =578.1nm Purity=34.9%

Ratio:R=18.7% G=78.1% B=3.2%;;Peak WL:Lp=596.5nm FWHM=152.5nm

Render Index:Ra=83.0

R1 =81 R2 =88 R3 =95 R4 =83 R5 =81 R6 =84 R7 =87

R8 =65 R9 =8 R10=72 R11=83 R12=64 R13=82 R14=97 R15=74

Photo Parameters:

Flux = 443.1 lm Eff. : 114.16 lm/W Fe = 1.331 W

Electrical parameters:

V = 229.89 V I = 0.03448 A P = 3.881 W PF = 0.4897

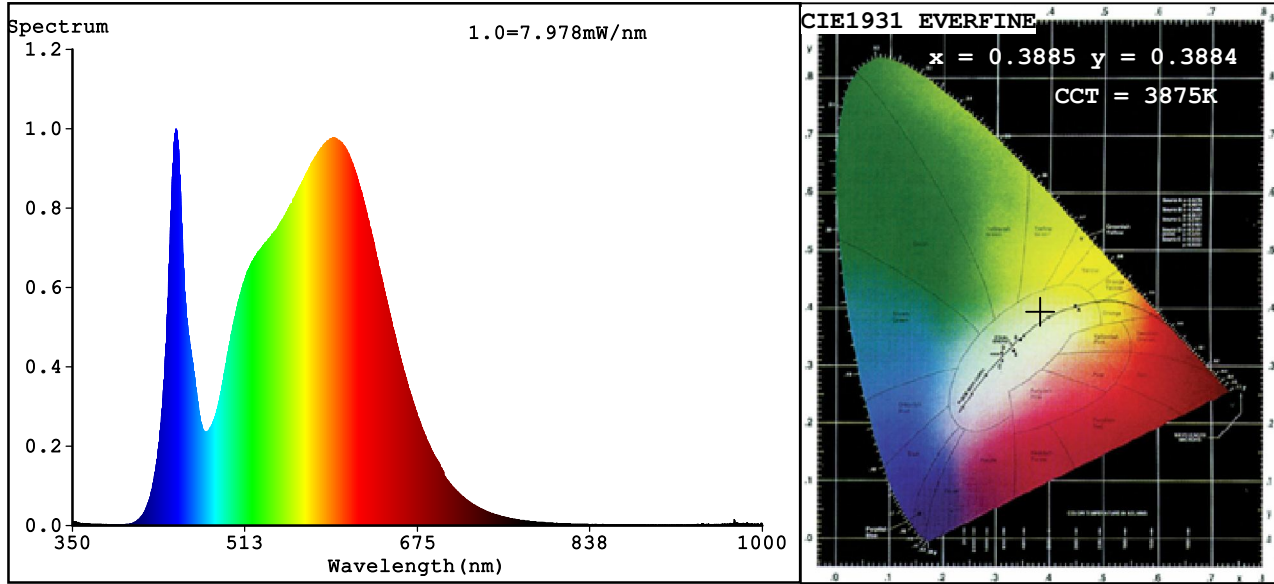
WHITE:ANSI_4000K

Status: Integral T = 79 ms Ip = 30720 (47%)

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

Number:99LED816
Date:2018-03-28 14:04
Humidity:65.0%
Remarks:017A045_4393

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3885$ $y=0.3884$ / $u'=0.2258$ $v'=0.5078$

CCT=3875K (Duv=0.0031) Dominant WL:Ld =578.1nm Purity=33.2%

Ratio:R=18.6% G=78.2% B=3.3%; Peak WL:Lp=447.5nm FWHM=19.6nm

Render Index:Ra=83.0

R1 =81	R2 =88	R3 =94	R4 =83	R5 =81	R6 =84	R7 =87		
R8 =65	R9 =9	R10=72	R11=83	R12=64	R13=82	R14=97	R15=74	

Photo Parameters:

Flux = 450.4 lm Eff. : 115.48 lm/W Fe = 1.358 W

Electrical parameters:

V = 229.92 V I = 0.03465 A P = 3.901 W PF = 0.4896

WHITE:ANSI_4000K

Status: Integral T = 79 ms Ip = 31119 (47%)

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

Number:99LED816
Date:2018-03-28 14:14
Humidity:65.0%
Remarks:017A045_4393