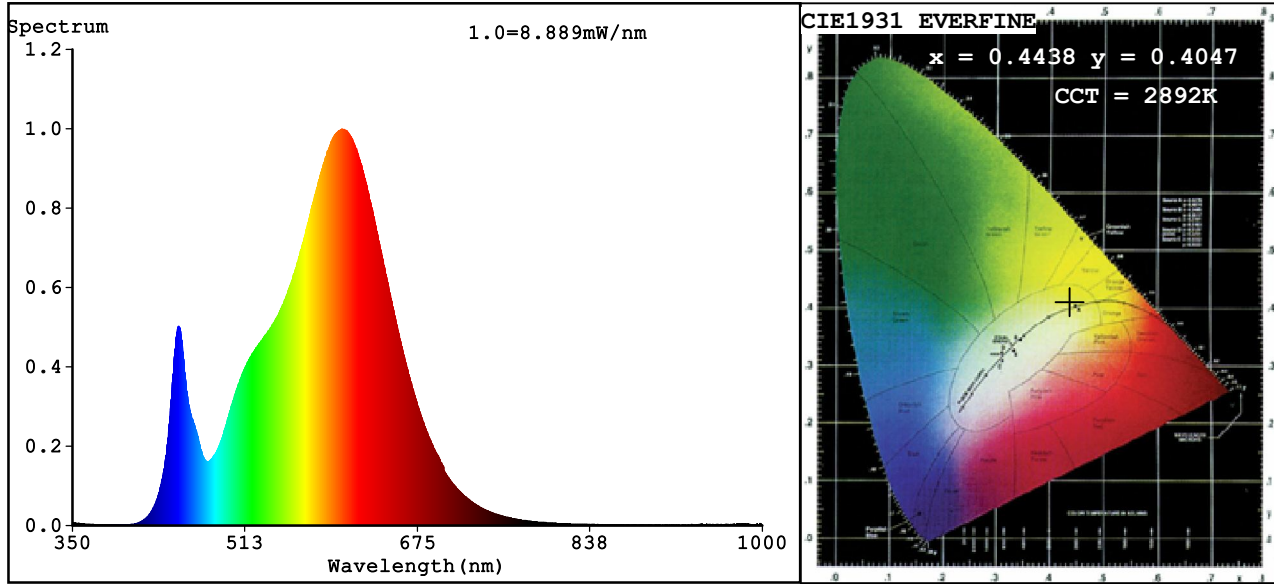


Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.4438$ $y=0.4047$ / $u'=0.2547$ $v'=0.5227$
 CCT=2892K (Duv=-0.0006) Dominant WL:Ld =583.5nm Purity=54.7%
 Ratio:R=23.6% G=73.9% B=2.4%; Peak WL:Lp=604.1nm FWHM=118.8nm
 Render Index:Ra=82.2
 R1 =81 R2 =91 R3 =96 R4 =80 R5 =81 R6 =90 R7 =82
 R8 =57 R9 =4 R10=80 R11=80 R12=74 R13=83 R14=98 R15=73

Photo Parameters:

Flux = 419.6 lm Eff. : 107.76 lm/W Fe = 1.276 W

Electrical parameters:

V = 230.00 V I = 0.03499 A P = 3.893 W PF = 0.4837

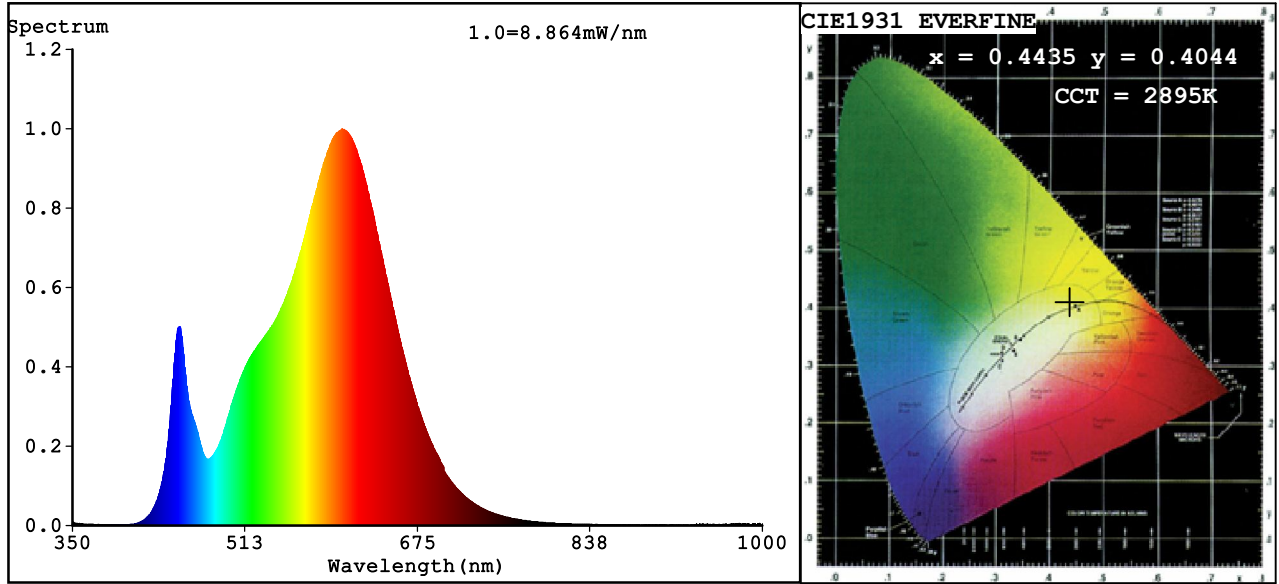
WHITE:ANSI_3000K

Status: Integral T = 90 ms Ip = 40375 (62%)

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

Number:99LED815
 Date:2018-03-29 10:55
 Humidity:65.0%
 Remarks:017A045_4393

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.4435$ $y=0.4044$ / $u'=0.2547$ $v'=0.5225$
 CCT=2895K (Duv=-0.0007) Dominant WL:Ld =583.5nm Purity=54.5%
 Ratio:R=23.7% G=73.9% B=2.4%;; Peak WL:Lp=604.1nm FWHM=118.6nm
 Render Index:Ra=82.3
 R1 =81 R2 =91 R3 =96 R4 =80 R5 =81 R6 =90 R7 =82
 R8 =57 R9 =5 R10=81 R11=80 R12=74 R13=83 R14=98 R15=73

Photo Parameters:

Flux = 417.8 lm Eff. : 107.79 lm/W Fe = 1.273 W

Electrical parameters:

V = 229.91 V I = 0.03477 A P = 3.877 W PF = 0.4849

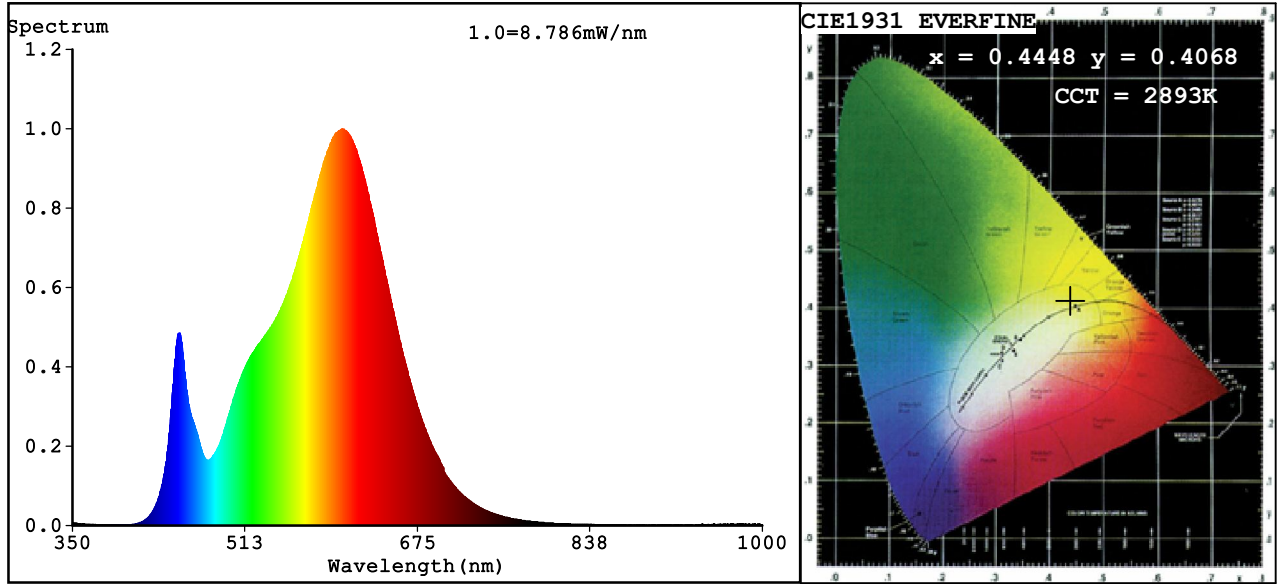
WHITE:ANSI_3000K

Status: Integral T = 90 ms Ip = 40214 (61%)

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

Number:99LED815
 Date:2018-03-29 10:57
 Humidity:65.0%
 Remarks:017A045_4393

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.4448$ $y=0.4068$ $u'=0.2545$ $v'=0.5236$
 CCT=2893K(Duv=0.0001) Dominant WL:Ld =583.3nm Purity=55.6%
 Ratio:R=23.6% G=74.0% B=2.4%;;Peak WL:Lp=604.1nm FWHM=118.5nm
 Render Index:Ra=82.0
 R1 =80 R2 =91 R3 =96 R4 =80 R5 =81 R6 =90 R7 =82
 R8 =57 R9 =3 R10=80 R11=80 R12=73 R13=83 R14=98 R15=72

Photo Parameters:

Flux = 415.0 lm Eff. : 106.33 lm/W Fe = 1.257 W

Electrical parameters:

V = 229.92 V I = 0.03499 A P = 3.903 W PF = 0.4852

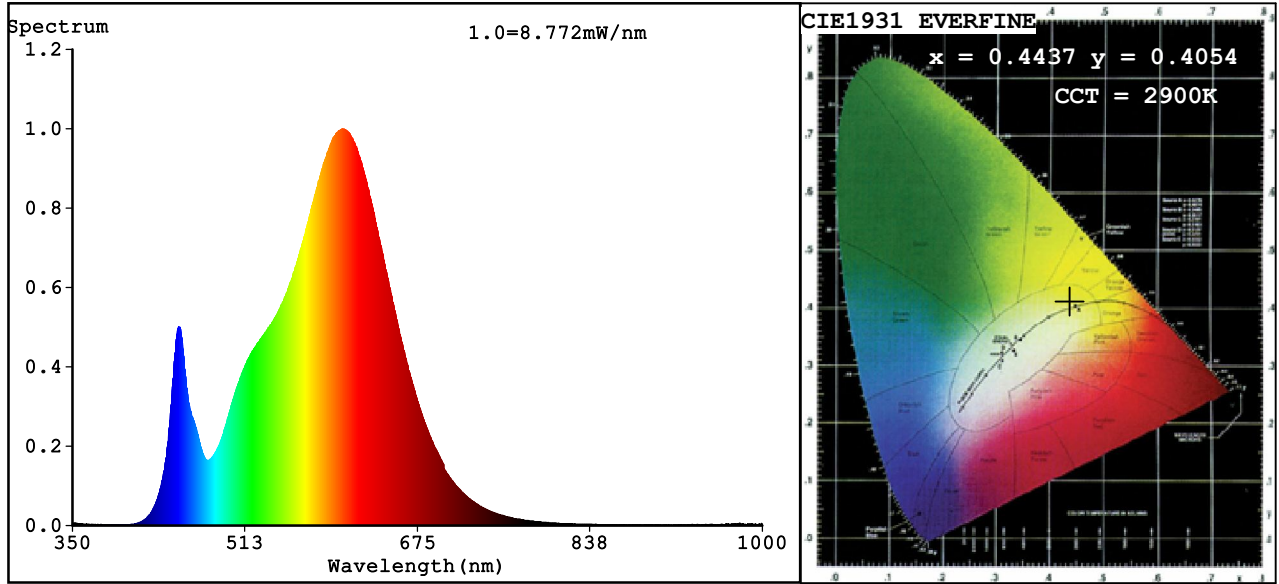
WHITE:ANSI_3000K

Status: Integral T = 90 ms Ip = 39948 (61%)

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

Number:99LED815
 Date:2018-03-29 10:59
 Humidity:65.0%
 Remarks:017A045_4393

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.4437$ $y=0.4054$ $u'=0.2544$ $v'=0.5229$
 CCT=2900K(Duv=-0.0003) Dominant WL:Ld =583.4nm Purity=54.9%
 Ratio:R=23.6% G=73.9% B=2.4%;;Peak WL:Lp=604.1nm FWHM=122.0nm
 Render Index:Ra=82.7

R1 =81	R2 =91	R3 =96	R4 =81	R5 =82	R6 =90	R7 =82	
R8 =58	R9 =7	R10=80	R11=81	R12=73	R13=84	R14=99	R15=73

Photo Parameters:

Flux = 416.6 lm Eff. : 105.63 lm/W Fe = 1.273 W

Electrical parameters:

V = 229.91 V I = 0.03491 A P = 3.944 W PF = 0.4914

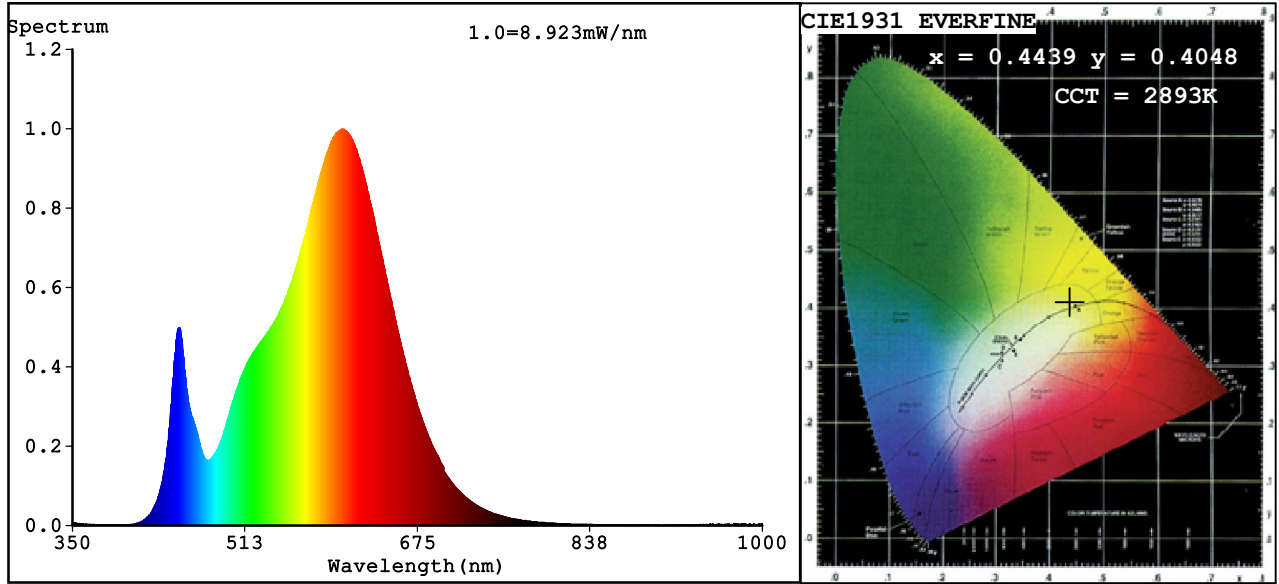
WHITE:ANSI_3000K

Status: Integral T = 90 ms Ip = 39808 (61%)

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

Number:99LED815
 Date:2018-03-29 11:01
 Humidity:65.0%
 Remarks:017A045_4393

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.4439$ $y=0.4048$ $u'=0.2547$ $v'=0.5227$

CCT=2893K(Duv=-0.0006) Dominant WL:Ld =583.5nm Purity=54.7%

Ratio:R=23.6% G=73.9% B=2.4%;;Peak WL:Lp=604.1nm FWHM=118.6nm

Render Index:Ra=82.2

R1 =81	R2 =91	R3 =96	R4 =80	R5 =81	R6 =90	R7 =81	
R8 =57	R9 =4	R10=80	R11=80	R12=74	R13=83	R14=98	R15=73

Photo Parameters:

Flux = 420.9 lm Eff. : 107.77 lm/W Fe = 1.280 W

Electrical parameters:

V = 229.92 V I = 0.03498 A P = 3.905 W PF = 0.4856

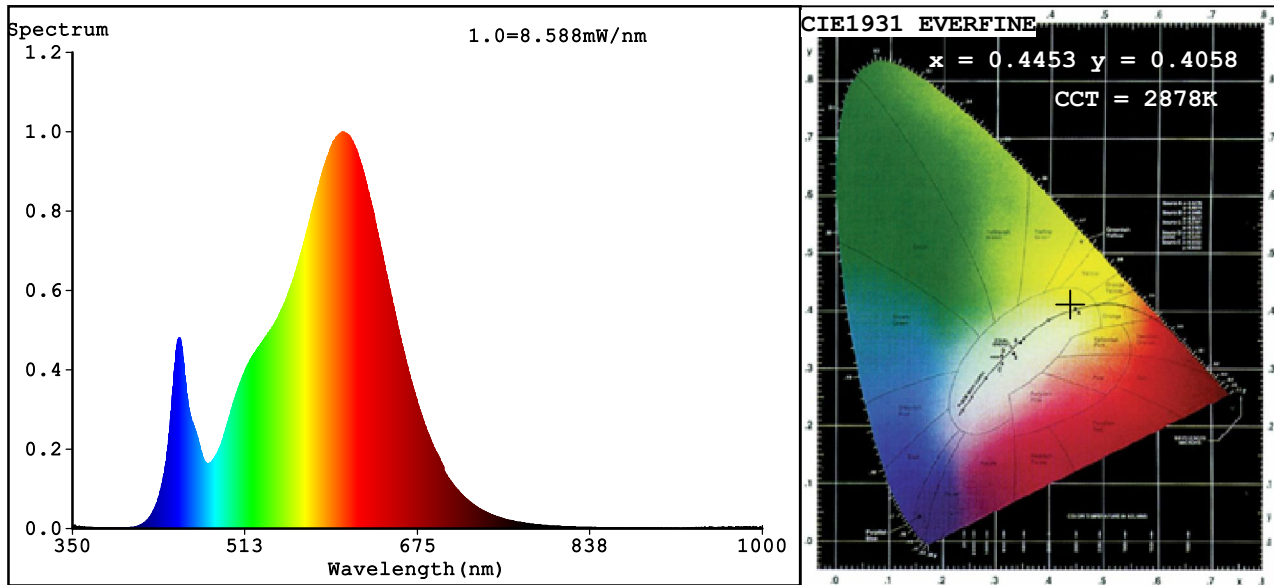
WHITE:ANSI_3000K

Status: Integral T = 90 ms Ip = 40513 (62%)

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

Number:99LED815
Date:2018-03-29 11:40
Humidity:65.0%
Remarks:017A045_4393

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.4453$ $y=0.4058$ $u'=0.2552$ $v'=0.5233$

CCT=2878K(Duv=-0.0004) Dominant WL:Ld =583.5nm Purity=55.5%

Ratio:R=23.8% G=73.8% B=2.4%;;Peak WL:Lp=605.8nm FWHM=120.7nm

Render Index:Ra=82.7

R1 =81 R2 =91 R3 =96 R4 =81 R5 =82 R6 =90 R7 =82

R8 =58 R9 =7 R10=81 R11=81 R12=74 R13=84 R14=99 R15=73

Photo Parameters:

Flux = 405.7 lm Eff. : 104.16 lm/W Fe = 1.242 W

Electrical parameters:

V = 229.94 V I = 0.03454 A P = 3.895 W PF = 0.4904

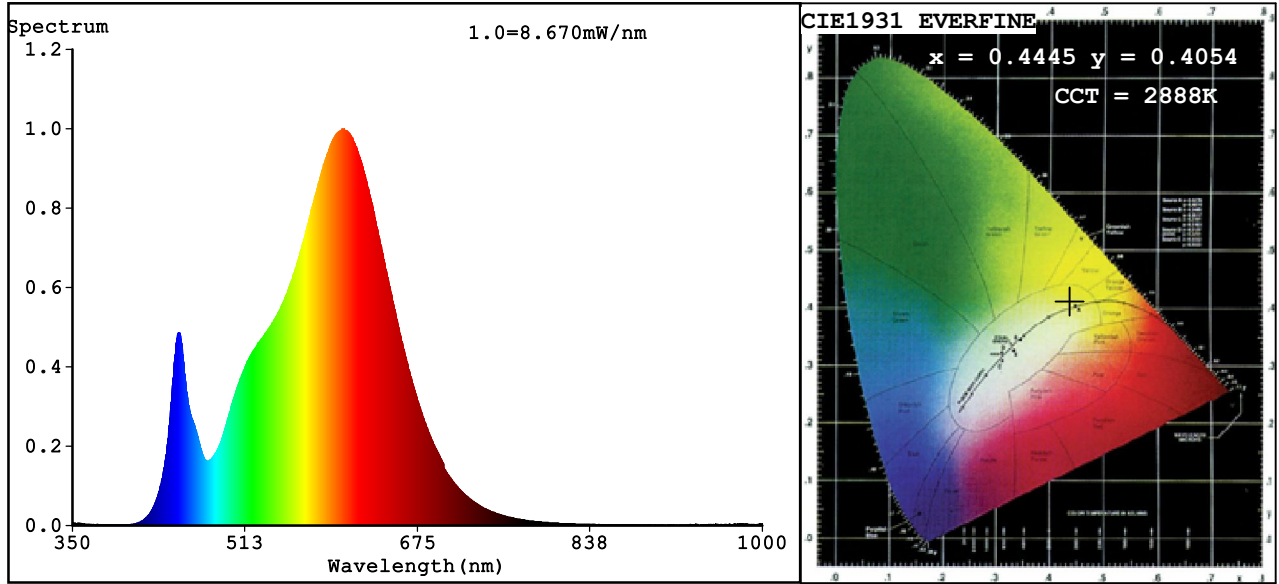
WHITE:ANSI_3000K

Status: Integral T = 90 ms Ip = 38969 (59%)

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

Number:99LED815
Date:2018-03-29 11:48
Humidity:65.0%
Remarks:017A045_4393

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.4445$ $y=0.4054$ / $u'=0.2548$ $v'=0.5230$
CCT=2888K(Duv=-0.0004) Dominant WL:Ld =583.5nm Purity=55.1%
Ratio:R=23.7% G=73.9% B=2.4%;; Peak WL:Lp=605.8nm FWHM=121.4nm
Render Index:Ra=82.8
R1 =81 R2 =91 R3 =96 R4 =81 R5 =82 R6 =90 R7 =82
R8 =58 R9 =7 R10=81 R11=81 R12=74 R13=84 R14=99 R15=73

Photo Parameters:

Flux = 410.5 lm Eff. : 104.45 lm/W Fe = 1.257 W

Electrical parameters:

V = 229.95 V I = 0.03482 A P = 3.930 W PF = 0.4909

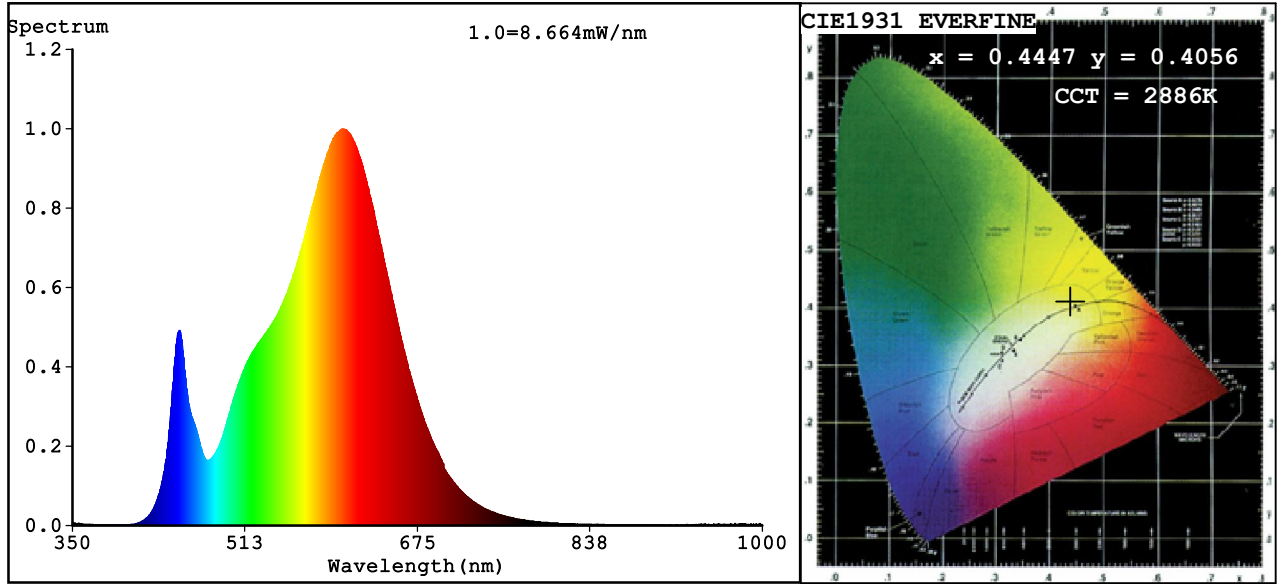
WHITE:ANSI_3000K

Status: Integral T = 90 ms Ip = 39336 (60%)

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

Number:99LED815
Date:2018-03-29 11:50
Humidity:65.0%
Remarks:017A045_4393

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.4447$ $y=0.4056$ $u'=0.2549$ $v'=0.5231$
 CCT=2886K(Duv=-0.0004) Dominant WL:Ld =583.5nm Purity=55.2%
 Ratio:R=23.8% G=73.8% B=2.4%;;Peak WL:Lp=604.1nm FWHM=121.2nm
 Render Index:Ra=82.8
 R1 =81 R2 =91 R3 =96 R4 =81 R5 =82 R6 =90 R7 =82
 R8 =58 R9 =7 R10=81 R11=81 R12=74 R13=84 R14=99 R15=74

Photo Parameters:

Flux = 410.2 lm Eff. : 104.05 lm/W Fe = 1.256 W

Electrical parameters:

V = 229.97 V I = 0.03488 A P = 3.943 W PF = 0.4915

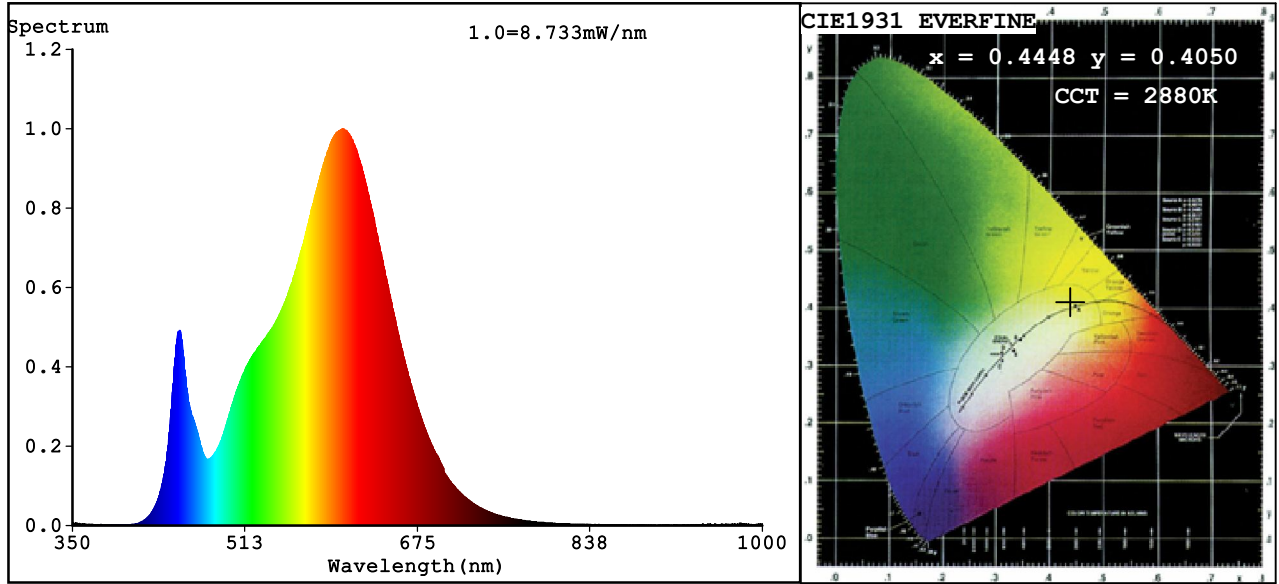
WHITE:ANSI_3000K

Status: Integral T = 90 ms Ip = 39336 (60%)

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

Number:99LED815
 Date:2018-03-29 11:51
 Humidity:65.0%
 Remarks:017A045_4393

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.4448$ $y=0.4050$ / $u'=0.2552$ $v'=0.5229$
 CCT=2880K (Duv=-0.0006) Dominant WL:Ld =583.6nm Purity=55.1%
 Ratio:R=23.7% G=73.8% B=2.4%;; Peak WL:Lp=604.1nm FWHM=117.1nm
 Render Index:Ra=82.0
 R1 =81 R2 =91 R3 =95 R4 =80 R5 =81 R6 =90 R7 =81
 R8 =56 R9 =3 R10=81 R11=80 R12=74 R13=83 R14=98 R15=72

Photo Parameters:

Flux = 410.1 lm Eff. : 106.11 lm/W Fe = 1.246 W

Electrical parameters:

V = 229.93 V I = 0.03457 A P = 3.865 W PF = 0.4863

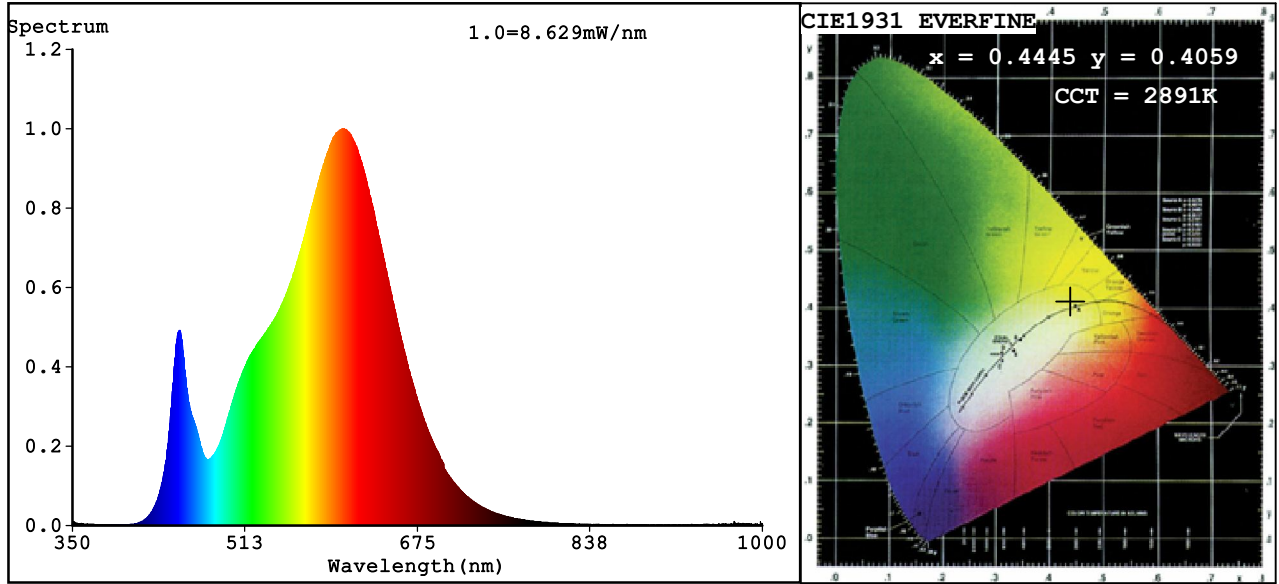
WHITE:ANSI_3000K

Status: Integral T = 90 ms Ip = 39645 (60%)

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

Number:99LED815
 Date:2018-03-29 11:53
 Humidity:65.0%
 Remarks:017A045_4393

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.4445$ $y=0.4059$ $u'=0.2547$ $v'=0.5232$
 CCT=2891K(Duv=-0.0002) Dominant WL:Ld =583.4nm Purity=55.3%
 Ratio:R=23.7% G=73.9% B=2.4%;;Peak WL:Lp=604.1nm FWHM=121.8nm
 Render Index:Ra=82.8

R1 =81	R2 =91	R3 =96	R4 =81	R5 =82	R6 =90	R7 =82		
R8 =58	R9 =7	R10=81	R11=81	R12=74	R13=84	R14=99	R15=73	

Photo Parameters:

Flux = 409.4 lm Eff. : 103.95 lm/W Fe = 1.252 W

Electrical parameters:

V = 229.95 V I = 0.03488 A P = 3.939 W PF = 0.4911

WHITE:ANSI_3000K

Status: Integral T = 90 ms Ip = 39180 (60%)

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

Number:99LED815
 Date:2018-03-29 11:54
 Humidity:65.0%
 Remarks:017A045_4393