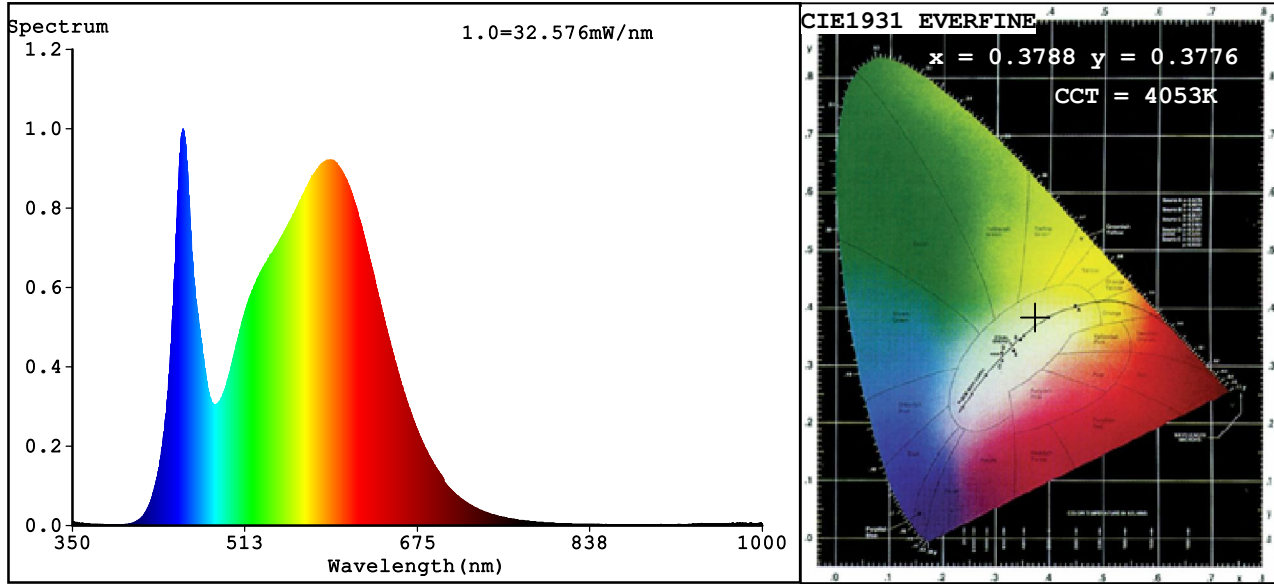


Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3788$ $y=0.3776$ $u'=0.2237$ $v'=0.5017$

CCT=4053K(Duv=0.0009) Dominant WL:Ld =578.4nm Purity=27.0%

Ratio:R=18.0% G=78.2% B=3.8%;;Peak WL:Lp=454.3nm FWHM=25.6nm

Render Index:Ra=82.2

R1 =80	R2 =90	R3 =95	R4 =79	R5 =80	R6 =85	R7 =85		
R8 =63	R9 =5	R10=75	R11=77	R12=59	R13=83	R14=98	R15=74	

Photo Parameters:

Flux = 1725 lm Eff. : 96.83 lm/W Fe = 5.243 W

Electrical parameters:

V = 12.080 V I = 1.475 A P = 17.82 W PF = 1.000

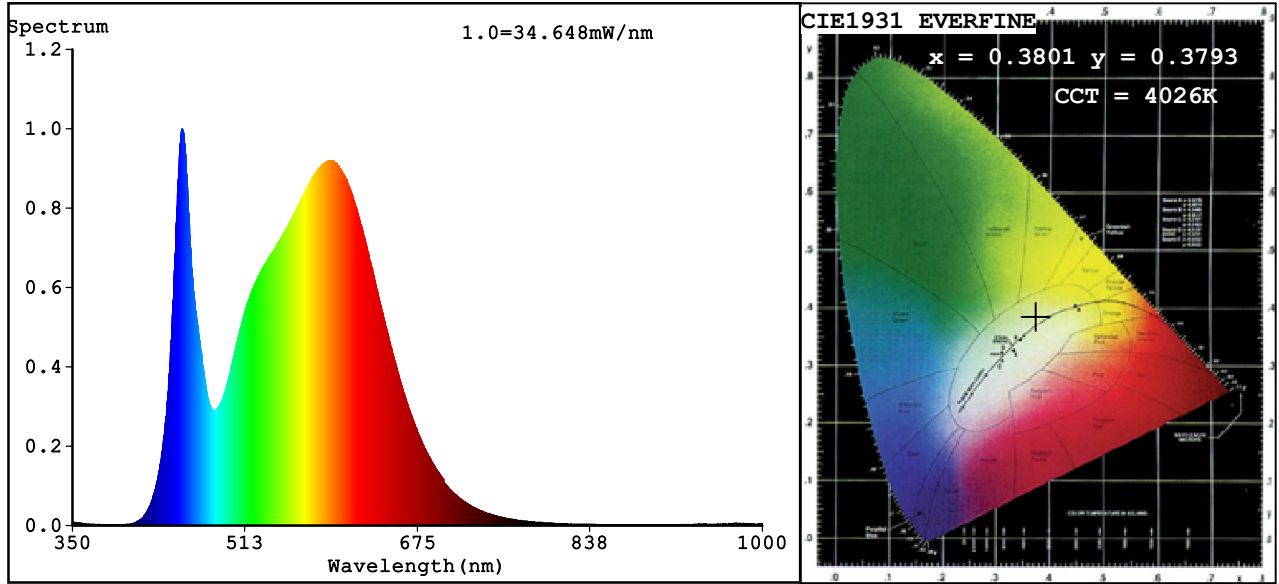
WHITE:ANSI_4000K

Status: Integral T = 32 ms Ip = 49142 (75%)

Model:LED Module/18W
Tester:Petya Marinova
Temperature:25.3Deg
Manufacturer:ELMARK

Number:99LED767T
Date:2018-01-16 13:18
Humidity:65.0%
Remarks:017V37A_4082

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3801$ $y=0.3793$ / $u'=0.2239$ $v'=0.5027$
 CCT=4026K (Duv=0.0013) Dominant WL:Ld =578.3nm Purity=27.9%
 Ratio:R=18.0% G=78.3% B=3.7% ; Peak WL:Lp=453.4nm FWHM=24.6nm
 Render Index:Ra=82.0
 R1 =80 R2 =89 R3 =95 R4 =79 R5 =80 R6 =85 R7 =85
 R8 =62 R9 =4 R10=74 R11=77 R12=59 R13=83 R14=98 R15=74

Photo Parameters:

Flux = 1831 lm Eff. : 98.15 lm/W Fe = 5.533 W

Electrical parameters:

V = 12.080 V I = 1.544 A P = 18.65 W PF = 1.000

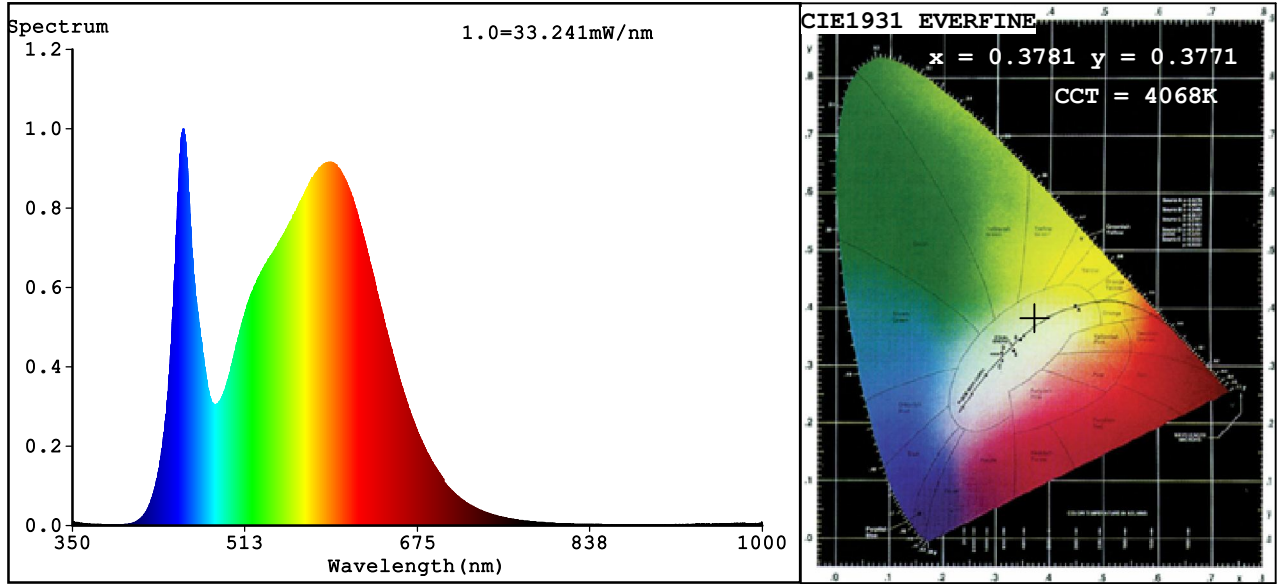
WHITE:ANSI_4000K

Status: Integral T = 32 ms Ip = 52083 (79%)

Model:LED Module/18W
 Tester:Petya Marinova
 Temperature:25.3Deg
 Manufacturer:ELMARK

Number:99LED767T
 Date:2018-01-16 13:20
 Humidity:65.0%
 Remarks:017V37A_4082

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3781$ $y=0.3771$ / $u'=0.2234$ $v'=0.5014$

CCT=4068K (Duv=0.0009) Dominant WL:Ld =578.3nm Purity=26.6%

Ratio:R=17.9% G=78.2% B=3.9%; Peak WL:Lp=454.3nm FWHM=25.7nm

Render Index:Ra=82.2

R1 =80	R2 =90	R3 =95	R4 =79	R5 =80	R6 =85	R7 =85		
R8 =63	R9 =5	R10=75	R11=77	R12=59	R13=83	R14=98	R15=74	

Photo Parameters:

Flux = 1753 lm Eff. : 98.46 lm/W Fe = 5.327 W

Electrical parameters:

V = 12.080 V I = 1.474 A P = 17.80 W PF = 1.000

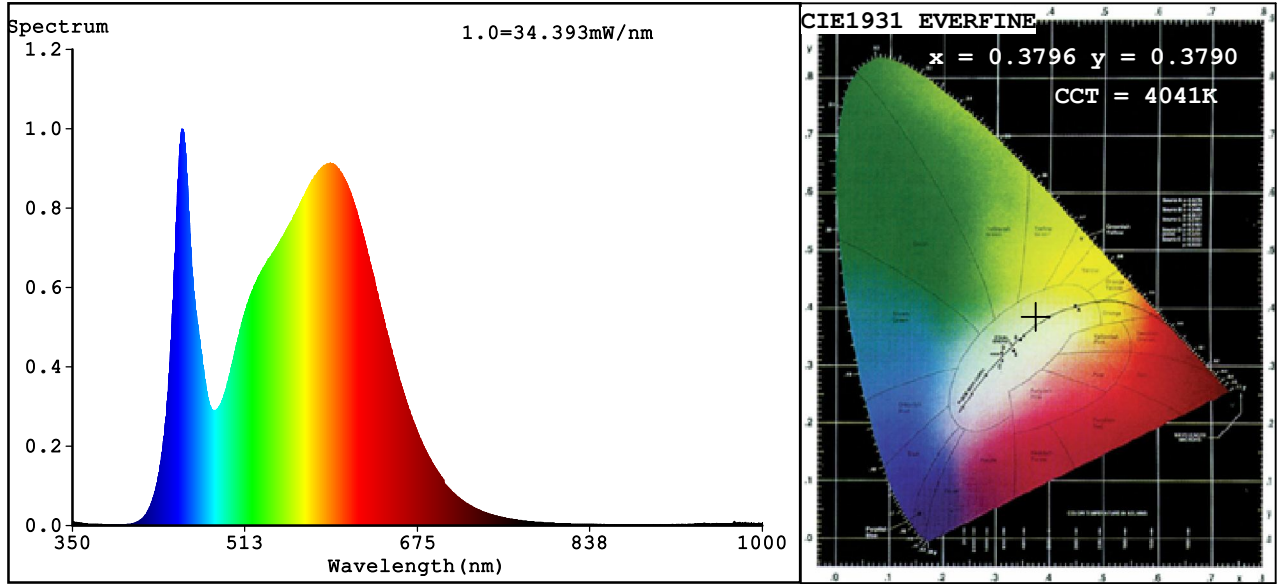
WHITE:ANSI_4000K

Status: Integral T = 32 ms Ip = 49845 (76%)

Model:LED Module/18W
Tester:Petya Marinova
Temperature:25.3Deg
Manufacturer:ELMARK

Number:99LED767T
Date:2018-01-16 13:23
Humidity:65.0%
Remarks:017V37A_4082

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3796$ $y=0.3790$ / $u'=0.2236$ $v'=0.5024$
 CCT=4041K (Duv=0.0013) Dominant WL:Ld =578.2nm Purity=27.6%
 Ratio:R=18.0% G=78.3% B=3.7%;; Peak WL:Lp=453.3nm FWHM=24.5nm
 Render Index:Ra=82.0
 R1 =80 R2 =89 R3 =95 R4 =79 R5 =80 R6 =85 R7 =85
 R8 =63 R9 =4 R10=74 R11=77 R12=58 R13=83 R14=98 R15=74

Photo Parameters:

Flux = 1806 lm Eff. : 100.21 lm/W Fe = 5.460 W

Electrical parameters:

V = 12.080 V I = 1.492 A P = 18.02 W PF = 1.000

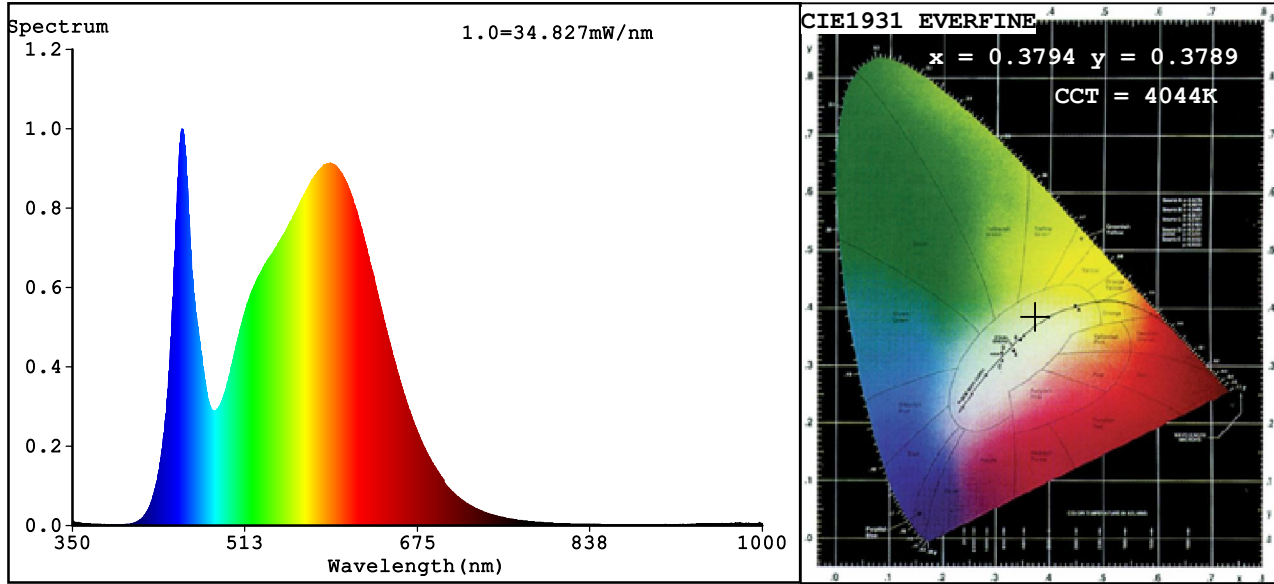
WHITE:ANSI_4000K

Status: Integral T = 32 ms Ip = 51286 (78%)

Model:LED Module/18W
 Tester:Petya Marinova
 Temperature:25.3Deg
 Manufacturer:ELMARK

Number:99LED767T
 Date:2018-01-16 13:25
 Humidity:65.0%
 Remarks:017V37A_4082

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3794$ $y=0.3789$ / $u'=0.2236$ $v'=0.5024$
 CCT=4044K (Duv=0.0013) Dominant WL:Ld =578.2nm Purity=27.5%
 Ratio:R=17.9% G=78.3% B=3.7% ; Peak WL:Lp=453.3nm FWHM=24.5nm
 Render Index:Ra=81.9
 R1 =80 R2 =89 R3 =95 R4 =79 R5 =80 R6 =84 R7 =85
 R8 =62 R9 =4 R10=74 R11=77 R12=58 R13=82 R14=98 R15=74

Photo Parameters:

Flux = 1830 lm Eff. : 99.48 lm/W Fe = 5.536 W

Electrical parameters:

V = 12.080 V I = 1.523 A P = 18.40 W PF = 1.000

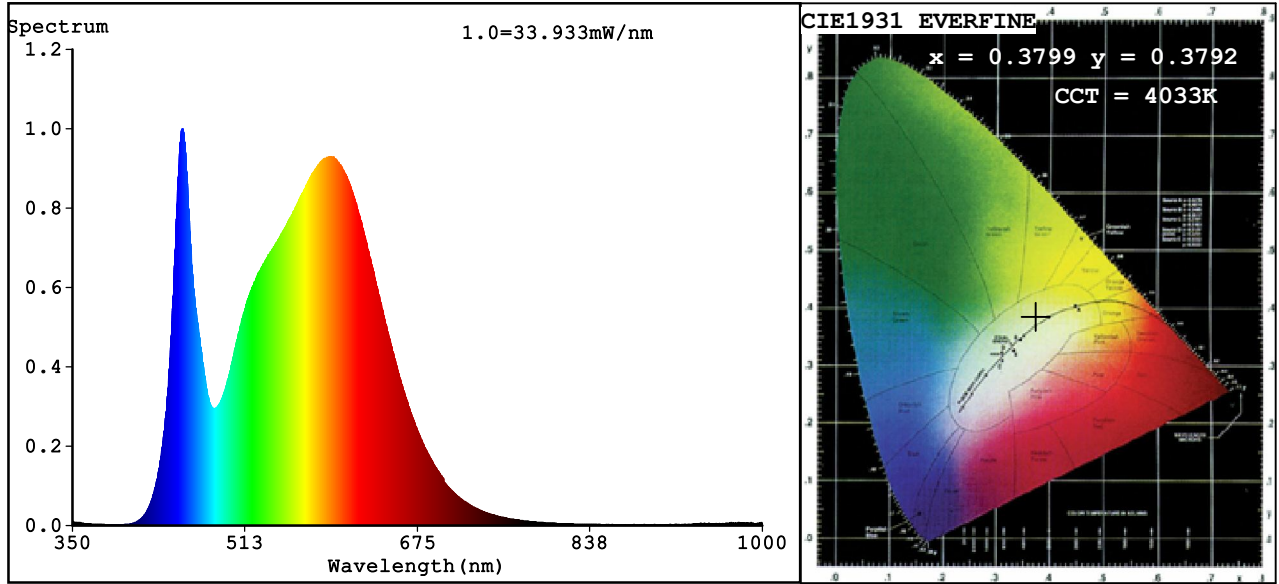
WHITE:ANSI_4000K

Status: Integral T = 32 ms Ip = 52002 (79%)

Model:LED Module/18W
 Tester:Petya Marinova
 Temperature:25.3Deg
 Manufacturer:ELMARK

Number:99LED767T
 Date:2018-01-16 13:30
 Humidity:65.0%
 Remarks:017V37A_4082

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3799$ $y=0.3792$ / $u'=0.2238$ $v'=0.5026$
 CCT=4033K (Duv=0.0013) Dominant WL:Ld =578.3nm Purity=27.8%
 Ratio:R=18.0% G=78.3% B=3.7% ; Peak WL:Lp=454.0nm FWHM=24.9nm
 Render Index:Ra=82.0
 R1 =80 R2 =89 R3 =95 R4 =79 R5 =80 R6 =85 R7 =85
 R8 =63 R9 =4 R10=74 R11=77 R12=59 R13=83 R14=98 R15=74

Photo Parameters:

Flux = 1814 lm Eff. : 96.47 lm/W Fe = 5.491 W

Electrical parameters:

V = 12.080 V I = 1.557 A P = 18.80 W PF = 1.000

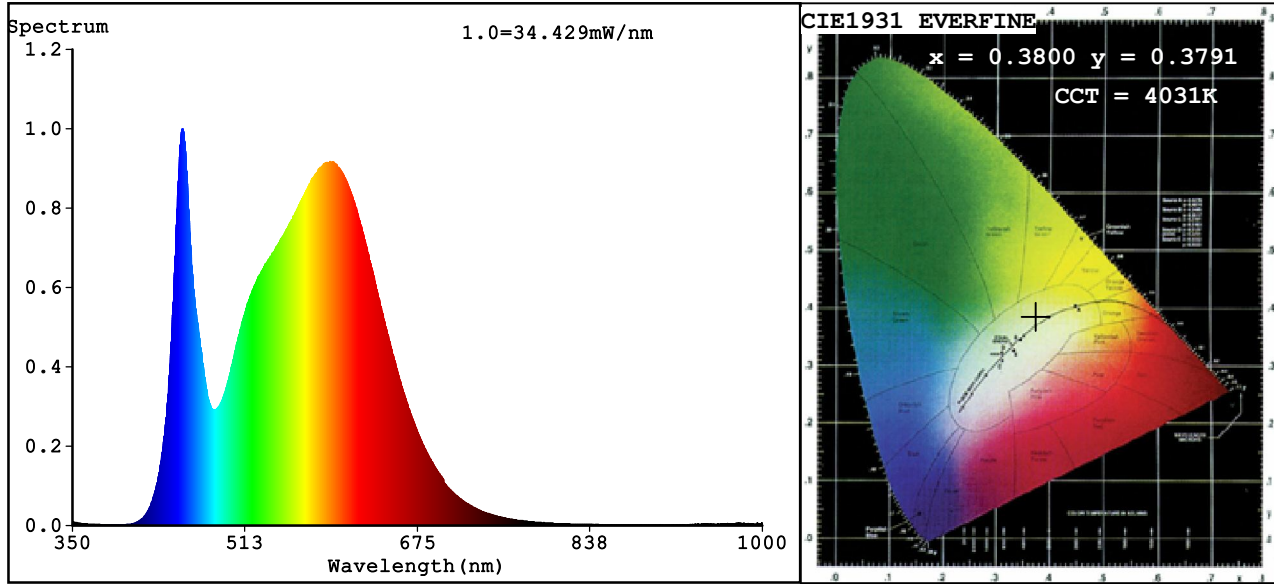
WHITE:ANSI_4000K

Status: Integral T = 32 ms Ip = 51580 (79%)

Model:LED Module/18W
 Tester:Petya Marinova
 Temperature:25.3Deg
 Manufacturer:ELMARK

Number:99LED767T
 Date:2018-01-16 13:33
 Humidity:65.0%
 Remarks:017V37A_4082

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3800$ $y=0.3791$ / $u'=0.2239$ $v'=0.5026$
CCT=4031K(Duv=0.0012) Dominant WL:Ld =578.3nm Purity=27.8%
Ratio:R=18.0% G=78.3% B=3.7%;; Peak WL:Lp=454.0nm FWHM=24.6nm
Render Index:Ra=82.1
R1 =80 R2 =90 R3 =95 R4 =79 R5 =80 R6 =85 R7 =85
R8 =63 R9 =4 R10=74 R11=77 R12=59 R13=83 R14=98 R15=74

Photo Parameters:

Flux = 1814 lm Eff. : 98.92 lm/W Fe = 5.486 W

Electrical parameters:

V = 12.080 V I = 1.518 A P = 18.34 W PF = 1.000

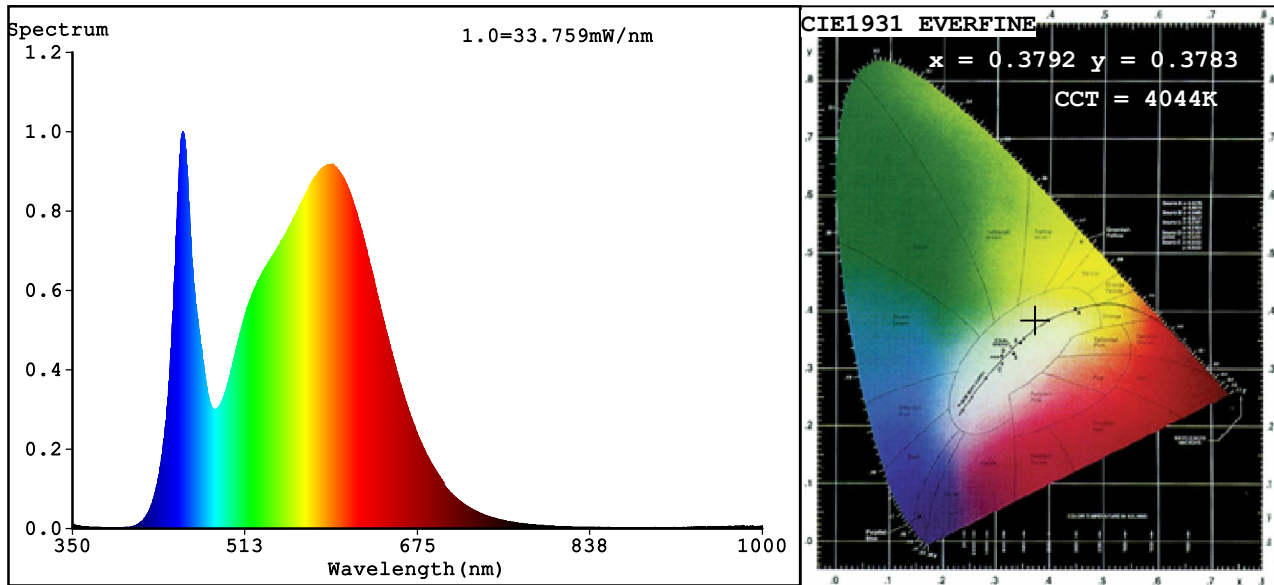
WHITE:ANSI_4000K

Status: Integral T = 32 ms Ip = 51630 (79%)

Model:LED Module/18W
Tester:Petya Marinova
Temperature:25.3Deg
Manufacturer:ELMARK

Number:99LED767T
Date:2018-01-16 13:39
Humidity:65.0%
Remarks:017V37A_4082

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3792$ $y=0.3783$ $u'=0.2237$ $v'=0.5021$

CCT=4044K(Duv=0.0011) Dominant WL:Ld =578.3nm Purity=27.3%

Ratio:R=18.0% G=78.2% B=3.8%;;Peak WL:Lp=454.3nm FWHM=25.2nm

Render Index:Ra=82.1

R1 =80	R2 =90	R3 =95	R4 =79	R5 =80	R6 =85	R7 =85		
R8 =63	R9 =4	R10=75	R11=77	R12=59	R13=83	R14=98	R15=74	

Photo Parameters:

Flux = 1781 lm Eff. : 95.75 lm/W Fe = 5.401 W

Electrical parameters:

V = 12.080 V I = 1.539 A P = 18.60 W PF = 1.000

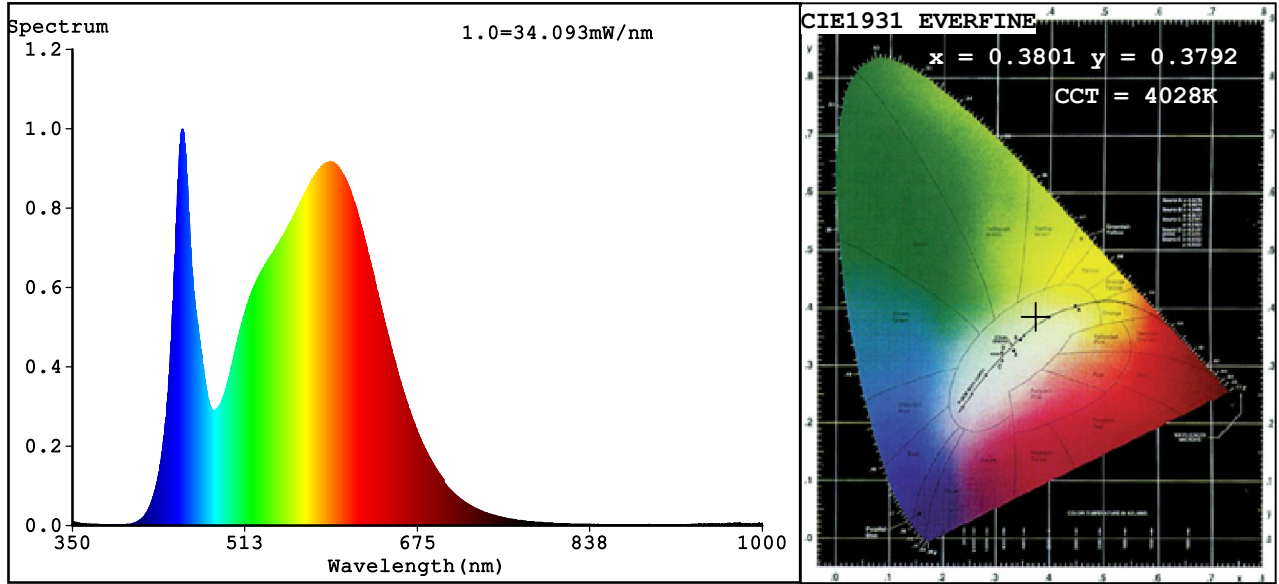
WHITE:ANSI_4000K

Status: Integral T = 32 ms Ip = 50717 (77%)

Model:LED Module/18W
Tester:Petya Marinova
Temperature:25.3Deg
Manufacturer:ELMARK

Number:99LED767T
Date:2018-01-16 13:39
Humidity:65.0%
Remarks:017V37A_4082

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3801$ $y=0.3792$ / $u'=0.2239$ $v'=0.5026$
 CCT=4028K (Duv=0.0012) Dominant WL:Ld =578.3nm Purity=27.8%
 Ratio:R=18.0% G=78.3% B=3.7%;; Peak WL:Lp=454.0nm FWHM=24.5nm
 Render Index:Ra=82.0
 R1 =80 R2 =89 R3 =95 R4 =79 R5 =80 R6 =85 R7 =85
 R8 =62 R9 =4 R10=74 R11=77 R12=59 R13=83 R14=98 R15=74

Photo Parameters:

Flux = 1796 lm Eff. : 99.24 lm/W Fe = 5.430 W

Electrical parameters:

V = 12.080 V I = 1.498 A P = 18.10 W PF = 1.000

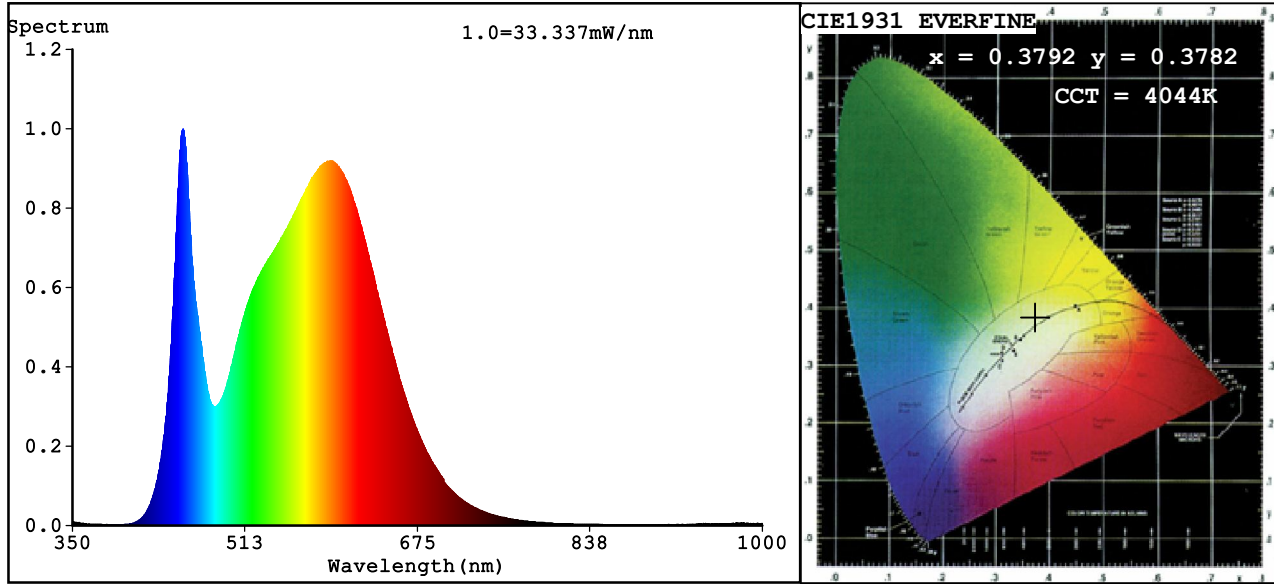
WHITE:ANSI_4000K

Status: Integral T = 32 ms Ip = 51076 (78%)

Model:LED Module/18W
 Tester:Petya Marinova
 Temperature:25.3Deg
 Manufacturer:ELMARK

Number:99LED767T
 Date:2018-01-16 13:41
 Humidity:65.0%
 Remarks:017V37A_4082

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3792$ $y=0.3782$ / $u'=0.2237$ $v'=0.5020$
 CCT=4044K (Duv=0.0010) Dominant WL:Ld =578.3nm Purity=27.3%
 Ratio:R=18.0% G=78.2% B=3.8%;; Peak WL:Lp=454.3nm FWHM=25.3nm
 Render Index:Ra=82.2
 R1 =80 R2 =90 R3 =95 R4 =79 R5 =80 R6 =85 R7 =85
 R8 =63 R9 =4 R10=75 R11=77 R12=59 R13=83 R14=98 R15=74

Photo Parameters:

Flux = 1760 lm Eff. : 95.23 lm/W Fe = 5.339 W

Electrical parameters:

V = 12.080 V I = 1.530 A P = 18.48 W PF = 1.000

WHITE:ANSI_4000K

Status: Integral T = 32 ms Ip = 50127 (76%)

Model:LED Module/18W
 Tester:Petya Marinova
 Temperature:25.3Deg
 Manufacturer:ELMARK

Number:99LED767T
 Date:2018-01-16 13:42
 Humidity:65.0%
 Remarks:017V37A_4082