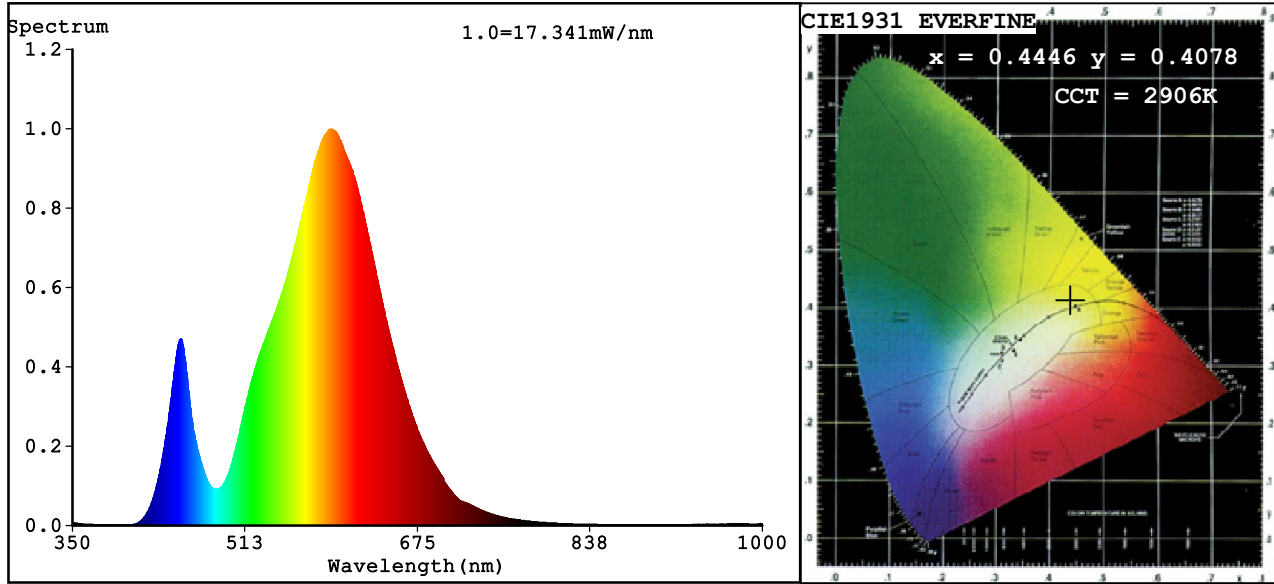


**Spectrum Test Report**



**Color Parameters:**

Chromaticity Coordinate:  $x=0.4446$   $y=0.4078$   $u'=0.2539$   $v'=0.5240$

CCT=2906K(Duv=0.0005) Dominant WL:Ld =583.1nm Purity=55.8%

Ratio:R=21.7% G=76.7% B=1.6%;;Peak WL:Lp=592.5nm FWHM=111.6nm

Render Index:Ra=71.0

R1 =67      R2 =82      R3 =94      R4 =66      R5 =66      R6 =74      R7 =77

R8 =42      R9 =0      R10=58      R11=59      R12=47      R13=70      R14=97      R15=60

**Photo Parameters:**

Flux = 814.5 lm    Eff. : 62.37 lm/W    Fe = 2.327 W

**Electrical parameters:**

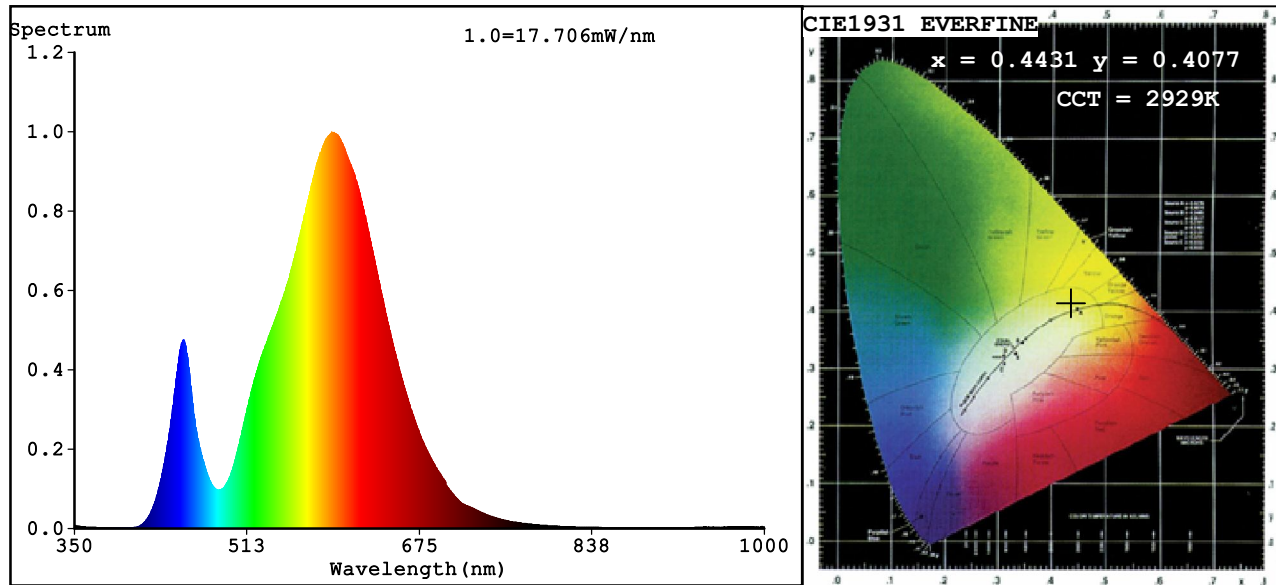
V = 220.01 V      I = 0.1166 A      P = 13.06 W PF = 0.5092

WHITE:ANSI\_3000K

Status: Integral T = 42 ms    Ip = 50337 (77%)

Model:LED PANELS SQUARE STELLAR/12W	Number:99XLED633
Tester:Petya Marinova	Date:2016-12-06 11:22
Temperature:25.3Deg	Humidity:65.0%
Manufacturer:ELMARK	Remarks:016V030A_3181

**Spectrum Test Report**



**Color Parameters:**

Chromaticity Coordinate:  $x=0.4431$   $y=0.4077$   $u'=0.2529$   $v'=0.5237$

CCT=2929K(Duv=0.0006) Dominant WL:Ld =582.9nm Purity=55.4%

Ratio:R=21.5% G=76.8% B=1.7%;;Peak WL:Lp=592.5nm FWHM=111.8nm

Render Index:Ra=71.1

R1 =67      R2 =82      R3 =94      R4 =66      R5 =66      R6 =74      R7 =77

R8 =42      R9 =0      R10=58      R11=59      R12=47      R13=70      R14=97      R15=60

**Photo Parameters:**

Flux = 834.4 lm    Eff. : 64.34 lm/W    Fe = 2.380 W

**Electrical parameters:**

V = 220.02 V      I = 0.1171 A      P = 12.97 W PF = 0.5032

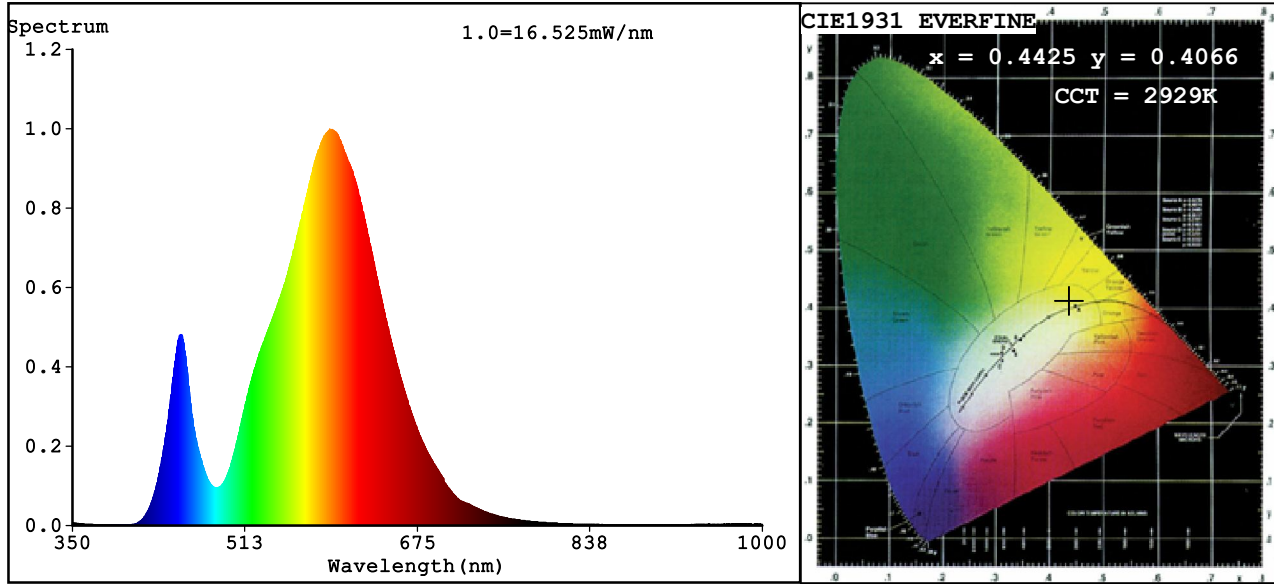
WHITE:ANSI\_3000K

Status: Integral T = 42 ms    Ip = 51363 (78%)

Model:LED PANELS SQUARE STELLAR/12W  
Tester:Petya Marinova  
Temperature:25.3Deg  
Manufacturer:ELMARK

Number:99XLED633  
Date:2016-12-06 11:45  
Humidity:65.0%  
Remarks:016V030A\_3181

**Spectrum Test Report**



**Color Parameters:**

Chromaticity Coordinate:  $x=0.4425$   $y=0.4066$   $u'=0.2531$   $v'=0.5232$   
 CCT=2929K(Duv=0.0003) Dominant WL:Ld =583.0nm Purity=54.9%  
 Ratio:R=21.6% G=76.8% B=1.7%;;Peak WL:Lp=592.5nm FWHM=112.0nm  
 Render Index:Ra=71.3  
 R1 =67      R2 =82      R3 =94      R4 =66      R5 =66      R6 =75      R7 =77  
 R8 =43      R9 =0      R10=58      R11=60      R12=48      R13=70      R14=97      R15=60

**Photo Parameters:**

Flux = 778.6 lm    Eff. : 60.12 lm/W    Fe = 2.227 W

**Electrical parameters:**

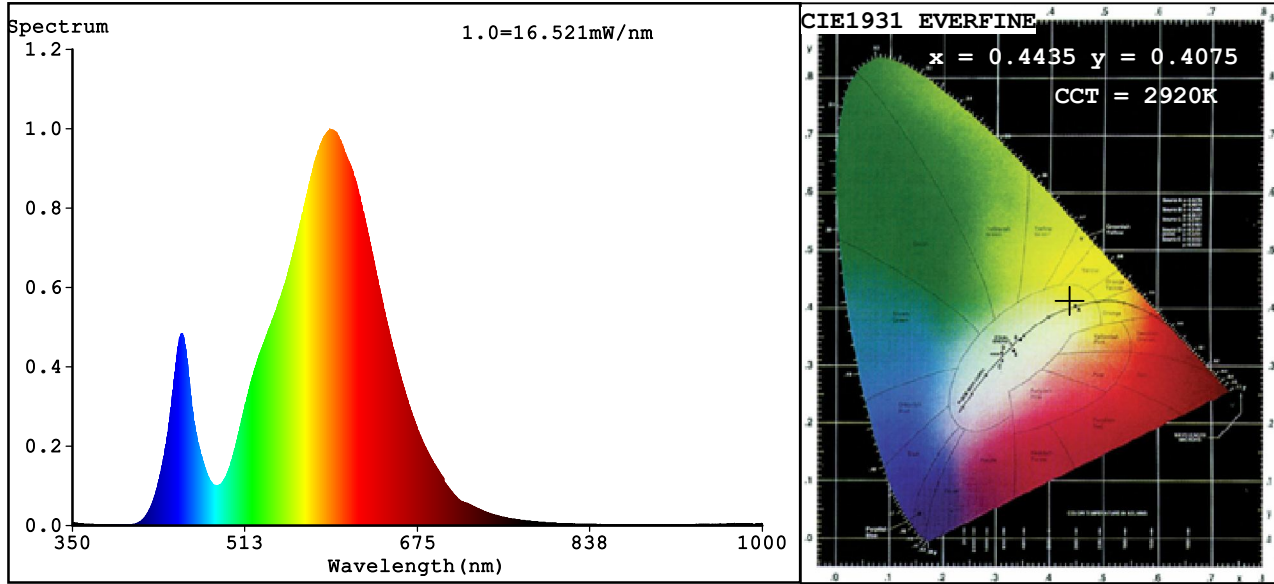
V = 220.02 V      I = 0.1168 A      P = 12.95 W PF = 0.5041

WHITE:ANSI\_3000K

Status: Integral T = 42 ms    Ip = 47945 (73%)

Model:LED PANELS SQUARE STELLAR/12W	Number:99XLED633
Tester:Petya Marinova	Date:2016-12-06 11:47
Temperature:25.3Deg	Humidity:65.0%
Manufacturer:ELMARK	Remarks:016V030A_3181

**Spectrum Test Report**



**Color Parameters:**

Chromaticity Coordinate:  $x=0.4435$   $y=0.4075$   $u'=0.2533$   $v'=0.5237$

CCT=2920K(Duv=0.0005) Dominant WL:Ld =583.0nm Purity=55.4%

Ratio:R=21.6% G=76.6% B=1.7%;;Peak WL:Lp=592.5nm FWHM=111.6nm

Render Index:Ra=71.5

R1 =68      R2 =82      R3 =94      R4 =66      R5 =66      R6 =75      R7 =77

R8 =43      R9 =0      R10=59      R11=60      R12=48      R13=70      R14=97      R15=60

**Photo Parameters:**

Flux = 776.6 lm    Eff. : 60.85 lm/W    Fe = 2.221 W

**Electrical parameters:**

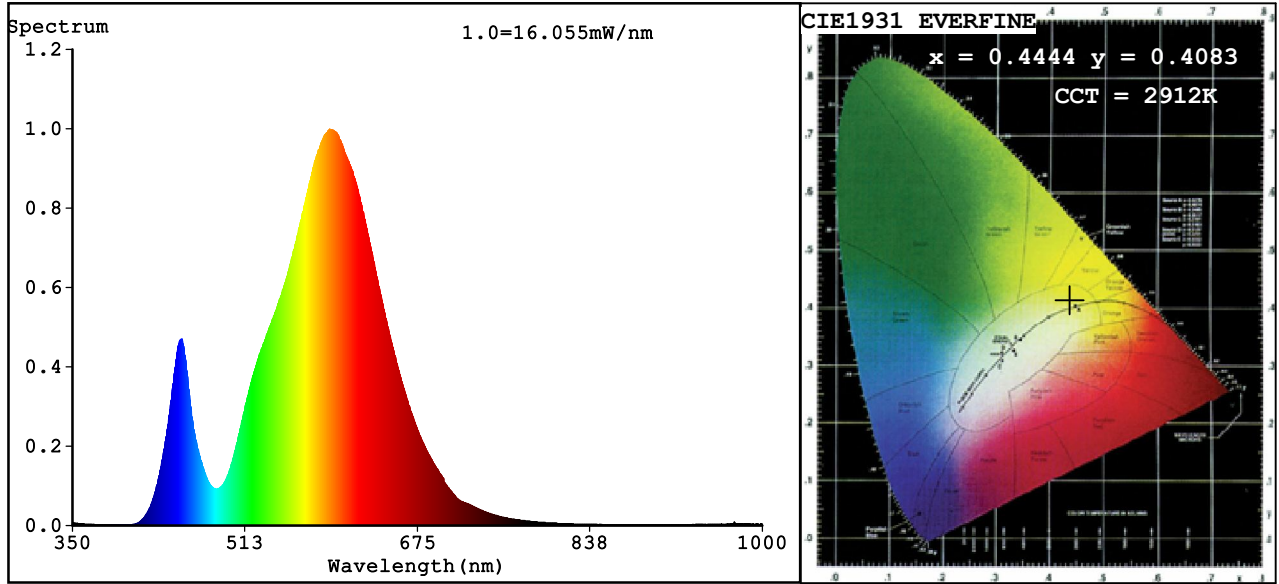
V = 220.01 V      I = 0.1151 A      P = 12.76 W PF = 0.5041

WHITE:ANSI\_3000K

Status: Integral T = 42 ms    Ip = 47858 (73%)

Model:LED PANELS SQUARE STELLAR/12W	Number:99XLED633
Tester:Petya Marinova	Date:2016-12-06 11:50
Temperature:25.3Deg	Humidity:65.0%
Manufacturer:ELMARK	Remarks:016V030A_3181

**Spectrum Test Report**



**Color Parameters:**

Chromaticity Coordinate:  $x=0.4444$   $y=0.4083$   $u'=0.2536$   $v'=0.5241$   
 CCT=2912K(Duv=0.0007) Dominant WL:Ld =583.0nm Purity=55.9%  
 Ratio:R=21.6% G=76.7% B=1.6%;;Peak WL:Lp=592.5nm FWHM=111.7nm  
 Render Index:Ra=71.0  
 R1 =67 R2 =82 R3 =94 R4 =66 R5 =66 R6 =74 R7 =77  
 R8 =42 R9 =0 R10=58 R11=59 R12=47 R13=70 R14=97 R15=60

**Photo Parameters:**

Flux = 754.6 lm Eff. : 57.79 lm/W Fe = 2.151 W

**Electrical parameters:**

V = 220.02 V I = 0.1171 A P = 13.06 W PF = 0.5068

WHITE:ANSI\_3000K

Status: Integral T = 42 ms Ip = 46607 (71%)

Model:LED PANELS SQUARE STELLAR/12W	Number:99XLED633
Tester:Petya Marinova	Date:2016-12-06 11:52
Temperature:25.3Deg	Humidity:65.0%
Manufacturer:ELMARK	Remarks:016V030A_3181