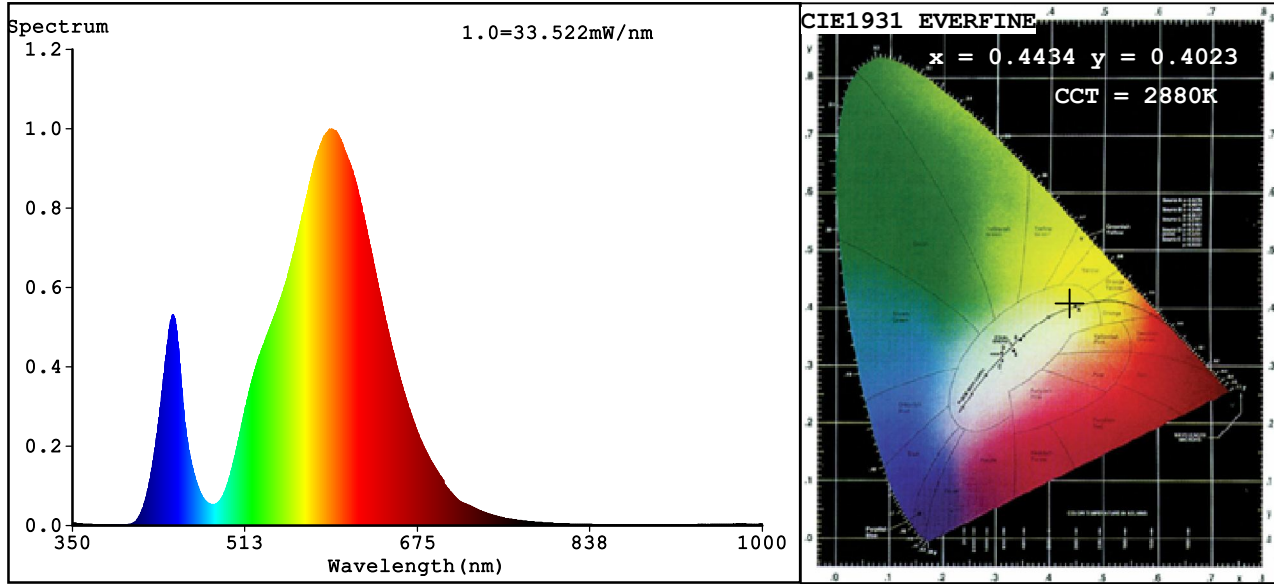


**Spectrum Test Report**



**Color Parameters:**

Chromaticity Coordinate:  $x=0.4434$   $y=0.4023$   $u'=0.2555$   $v'=0.5216$

CCT=2880K(Duv=-0.0015) Dominant WL:Ld =583.9nm Purity=53.8%

Ratio:R=21.8% G=77.0% B=1.3%;;Peak WL:Lp=592.5nm FWHM=110.6nm

Render Index:Ra=69.2

R1 =66      R2 =79      R3 =92      R4 =65      R5 =64      R6 =71      R7 =76

R8 =41      R9 =0      R10=53      R11=60      R12=45      R13=68      R14=95      R15=58

**Photo Parameters:**

Flux = 1563 lm    Eff. : 80.13 lm/W    Fe = 4.478 W

**Electrical parameters:**

V = 219.99 V      I = 0.1715 A      P = 19.50 W PF = 0.5168

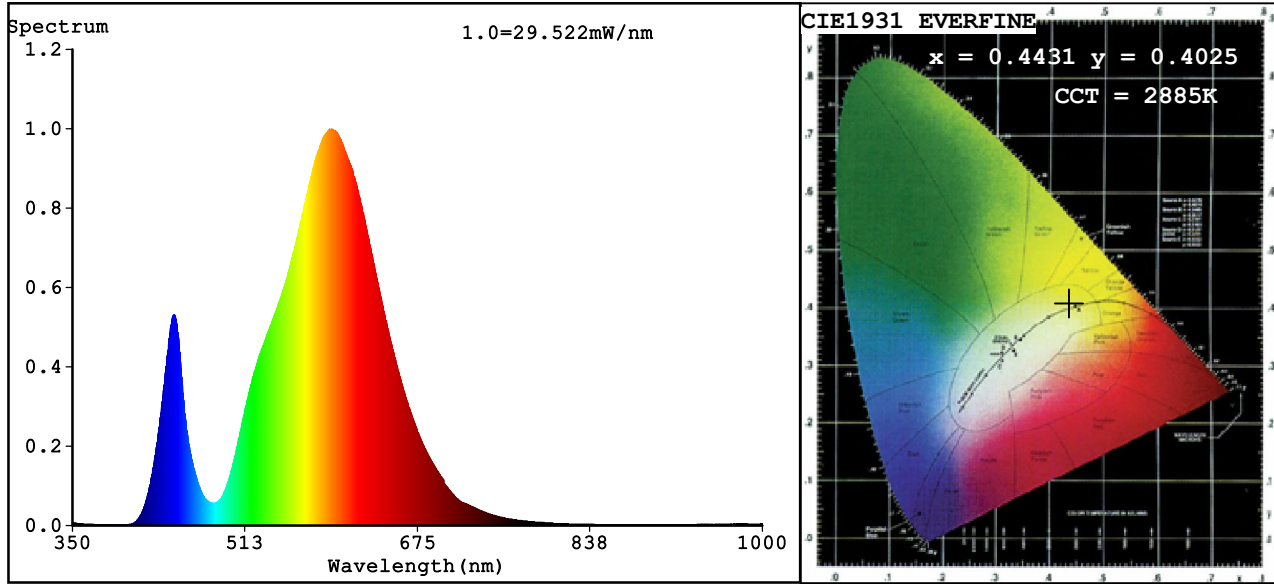
WHITE:ANSI\_3000K

Status: Integral T = 20 ms Ip = 46296 (71%)

Model:LED PANELS ROUND STELLAR/18W  
Tester:Petya Marinova  
Temperature:25.3Deg  
Manufacturer:ELMARK

Number:99XLED615  
Date:2016-11-09 08:19  
Humidity:65.0%  
Remarks:016V030A\_3181

**Spectrum Test Report**



**Color Parameters:**

Chromaticity Coordinate:  $x=0.4431$   $y=0.4025$   $u'=0.2553$   $v'=0.5217$   
 CCT=2885K(Duv=-0.0014) Dominant WL:Ld =583.8nm Purity=53.8%  
 Ratio:R=21.7% G=76.9% B=1.3%;;Peak WL:Lp=592.5nm FWHM=110.9nm  
 Render Index:Ra=69.4  
 R1 =66 R2 =80 R3 =92 R4 =65 R5 =64 R6 =71 R7 =76  
 R8 =41 R9 =0 R10=53 R11=59 R12=45 R13=68 R14=95 R15=59

**Photo Parameters:**

Flux = 1379 lm Eff. : 71.48 lm/W Fe = 3.950 W

**Electrical parameters:**

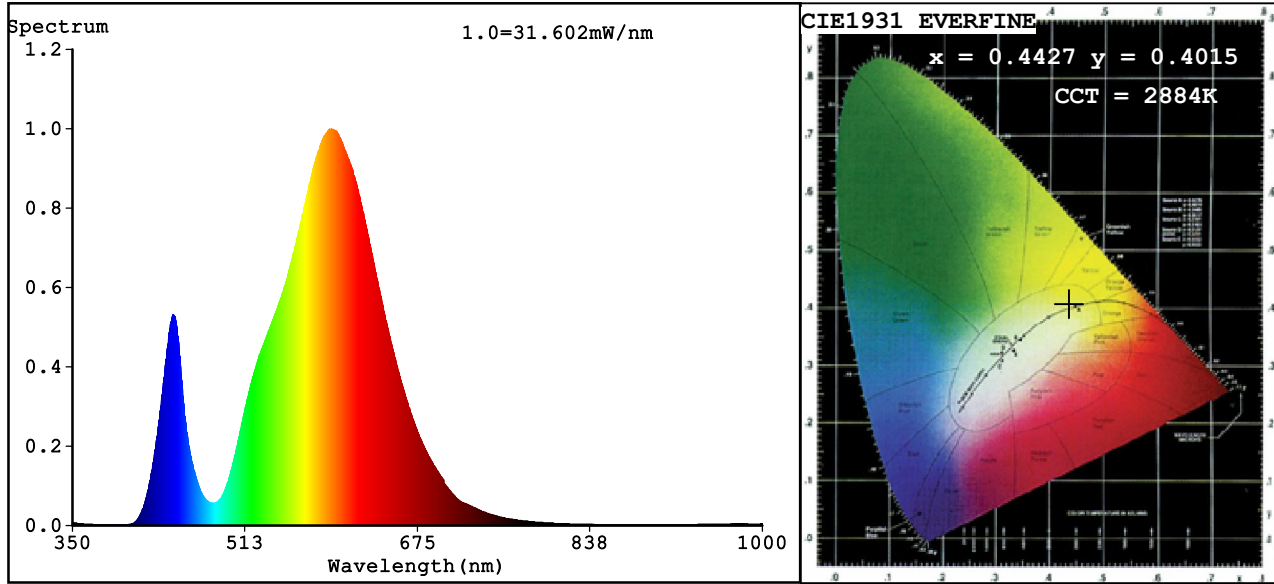
V = 220.02 V I = 0.1689 A P = 19.29 W PF = 0.5190

WHITE:ANSI\_3000K

Status: Integral T = 20 ms Ip = 40783 (62%)

Model:LED PANELS ROUND STELLAR/18W	Number:99XLED615
Tester:Petya Marinova	Date:2016-11-09 08:21
Temperature:25.3Deg	Humidity:65.0%
Manufacturer:ELMARK	Remarks:016V030A_3181

**Spectrum Test Report**



**Color Parameters:**

Chromaticity Coordinate:  $x=0.4427$   $y=0.4015$   $u'=0.2554$   $v'=0.5212$   
 CCT=2884K(Duv=-0.0018) Dominant WL:Ld =584.0nm Purity=53.4%  
 Ratio:R=21.8% G=76.9% B=1.3%;;Peak WL:Lp=594.4nm FWHM=110.8nm  
 Render Index:Ra=69.6

R1 =66	R2 =80	R3 =92	R4 =66	R5 =64	R6 =71	R7 =76	
R8 =41	R9 =0	R10=53	R11=60	R12=46	R13=68	R14=95	R15=59

**Photo Parameters:**

Flux = 1475 lm Eff. : 76.35 lm/W Fe = 4.237 W

**Electrical parameters:**

V = 220.03 V I = 0.1708 A P = 19.32 W PF = 0.5141

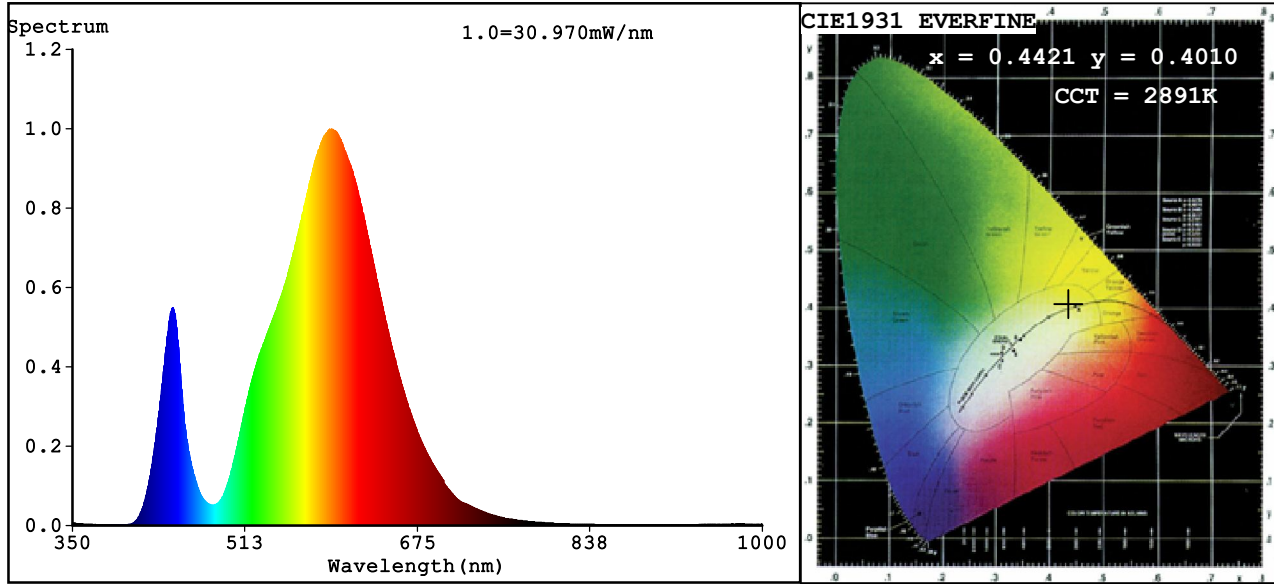
WHITE:ANSI\_3000K

Status: Integral T = 20 ms Ip = 43655 (67%)

Model:LED PANELS ROUND STELLAR/18W  
 Tester:Petya Marinova  
 Temperature:25.3Deg  
 Manufacturer:ELMARK

Number:99XLED615  
 Date:2016-11-09 08:23  
 Humidity:65.0%  
 Remarks:016V030A\_3181

**Spectrum Test Report**



**Color Parameters:**

Chromaticity Coordinate:  $x=0.4421$   $y=0.4010$   $u'=0.2552$   $v'=0.5210$

CCT=2891K (Duv=-0.0019) Dominant WL:Ld =584.0nm Purity=53.1%

Ratio:R=21.7% G=77.0% B=1.3%;; Peak WL:Lp=592.5nm FWHM=111.0nm

Render Index:Ra=69.2

R1 =66      R2 =79      R3 =91      R4 =65      R5 =64      R6 =71      R7 =76

R8 =41      R9 =0      R10=52      R11=60      R12=45      R13=68      R14=95      R15=58

**Photo Parameters:**

Flux = 1447 lm    Eff. : 72.82 lm/W    Fe = 4.154 W

**Electrical parameters:**

V = 220.04 V      I = 0.1753 A      P = 19.87 W PF = 0.5150

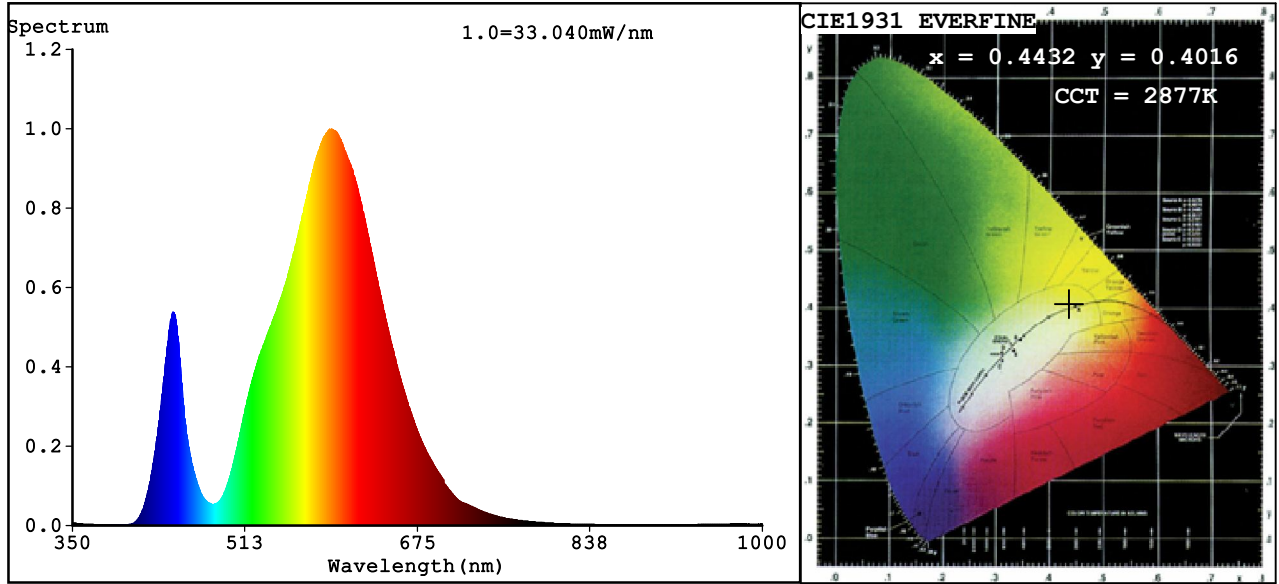
WHITE:ANSI\_3000K

Status: Integral T = 20 ms Ip = 42795 (65%)

Model:LED PANELS ROUND STELLAR/18W  
Tester:Petya Marinova  
Temperature:25.3Deg  
Manufacturer:ELMARK

Number:99XLED615  
Date:2016-11-09 08:26  
Humidity:65.0%  
Remarks:016V030A\_3181

**Spectrum Test Report**



**Color Parameters:**

Chromaticity Coordinate:  $x=0.4432$   $y=0.4016$   $u'=0.2557$   $v'=0.5213$

CCT=2877K (Duv=-0.0018) Dominant WL:Ld =584.0nm Purity=53.5%

Ratio:R=21.8% G=76.9% B=1.3%;; Peak WL:Lp=592.5nm FWHM=110.9nm

Render Index:Ra=69.4

R1 =66	R2 =80	R3 =92	R4 =65	R5 =64	R6 =71	R7 =76	
R8 =41	R9 =0	R10=53	R11=60	R12=45	R13=68	R14=95	R15=59

**Photo Parameters:**

Flux = 1540 lm Eff. : 77.29 lm/W Fe = 4.425 W

**Electrical parameters:**

V = 220.01 V I = 0.1747 A P = 19.92 W PF = 0.5183

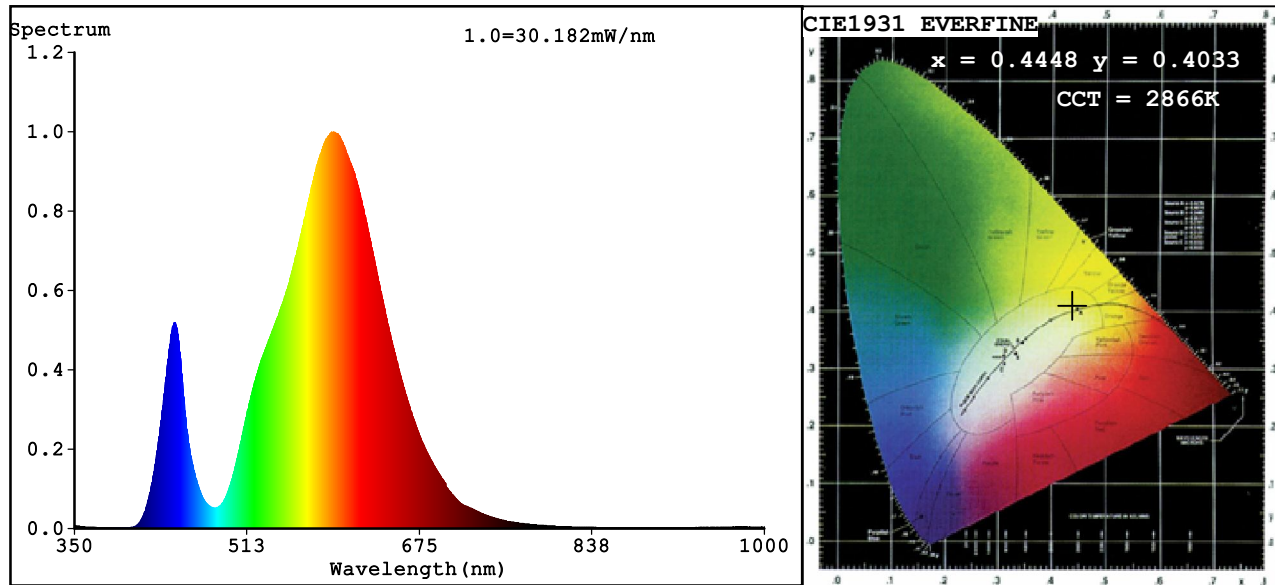
WHITE:ANSI\_3000K

Status: Integral T = 20 ms Ip = 45595 (70%)

Model:LED PANELS ROUND STELLAR/18W  
Tester:Petya Marinova  
Temperature:25.3Deg  
Manufacturer:ELMARK

Number:99XLED615  
Date:2016-11-09 08:28  
Humidity:65.0%  
Remarks:016V030A\_3181

**Spectrum Test Report**



**Color Parameters:**

Chromaticity Coordinate:  $x=0.4448$   $y=0.4033$   $u'=0.2560$   $v'=0.5223$

CCT=2866K(Duv=-0.0013) Dominant WL:Ld =583.9nm Purity=54.6%

Ratio:R=21.8% G=76.9% B=1.2%;;Peak WL:Lp=592.5nm FWHM=110.1nm

Render Index:Ra=69.1

R1 =65      R2 =79      R3 =92      R4 =65      R5 =64      R6 =71      R7 =76

R8 =41      R9 =0      R10=53      R11=59      R12=45      R13=68      R14=95      R15=58

**Photo Parameters:**

Flux = 1403 lm    Eff. : 72.61 lm/W    Fe = 4.017 W

**Electrical parameters:**

V = 220.02 V      I = 0.1709 A      P = 19.32 W PF = 0.5140

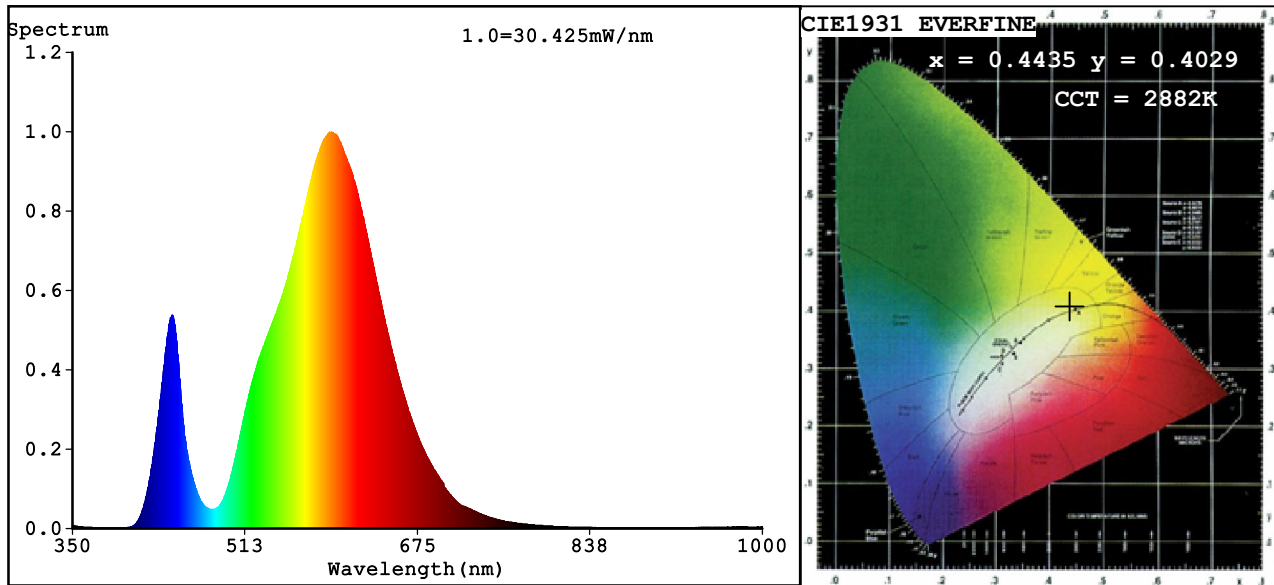
WHITE:ANSI\_2700K

Status: Integral T = 20 ms Ip = 41685 (64%)

Model:LED PANELS ROUND STELLAR/18W  
Tester:Petya Marinova  
Temperature:25.3Deg  
Manufacturer:ELMARK

Number:99XLED615  
Date:2016-11-09 08:30  
Humidity:65.0%  
Remarks:016V030A\_3181

**Spectrum Test Report**



**Color Parameters:**

Chromaticity Coordinate:  $x=0.4435$   $y=0.4029$   $u'=0.2554$   $v'=0.5219$   
 CCT=2882K(Duv=-0.0013) Dominant WL:Ld =583.8nm Purity=54.1%  
 Ratio:R=21.7% G=77.1% B=1.2%;;Peak WL:Lp=592.5nm FWHM=111.0nm  
 Render Index:Ra=69.0  
 R1 =65    R2 =79    R3 =91    R4 =65    R5 =64    R6 =70    R7 =76  
 R8 =41    R9 =0    R10=52    R11=60    R12=44    R13=67    R14=95    R15=58

**Photo Parameters:**

Flux = 1420 lm    Eff. : 71.05 lm/W    Fe = 4.064 W

**Electrical parameters:**

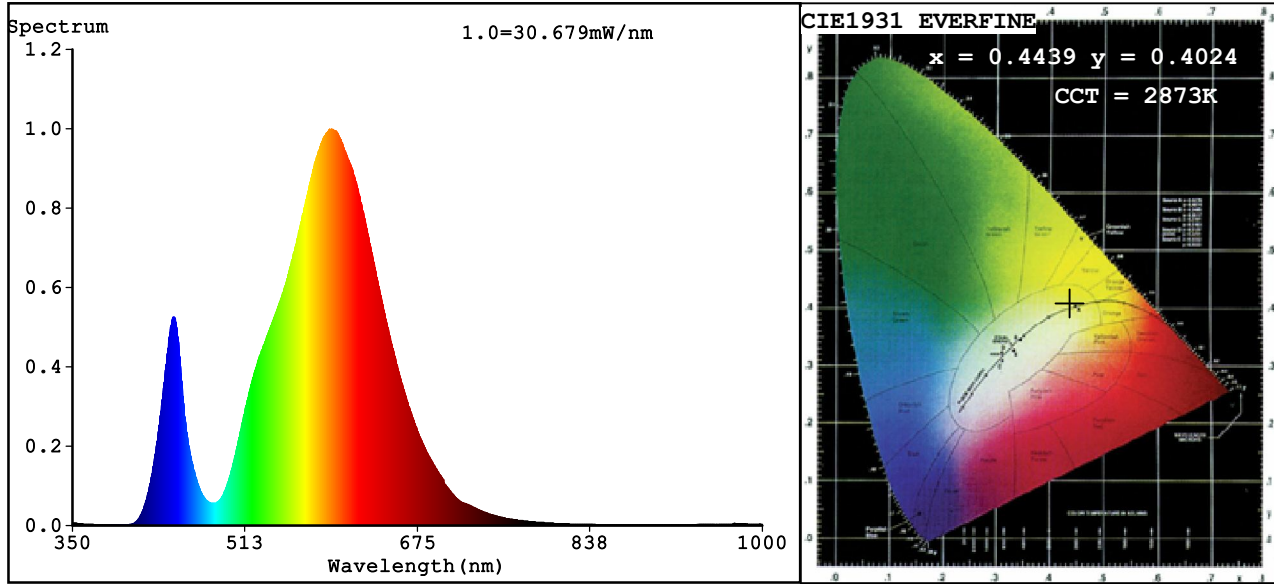
V = 220.01 V    I = 0.1759 A    P = 19.98 W PF = 0.5163

WHITE:ANSI\_3000K

Status: Integral T = 20 ms Ip = 42031 (64%)

Model:LED PANELS ROUND STELLAR/18W	Number:99XLED615
Tester:Petya Marinova	Date:2016-11-09 08:33
Temperature:25.3Deg	Humidity:65.0%
Manufacturer:ELMARK	Remarks:016V030A_3181

**Spectrum Test Report**



**Color Parameters:**

Chromaticity Coordinate:  $x=0.4439$   $y=0.4024$   $u'=0.2558$   $v'=0.5218$   
 CCT=2873K(Duv=-0.0015) Dominant WL:Ld =583.9nm Purity=54.0%  
 Ratio:R=21.8% G=76.9% B=1.3%;;Peak WL:Lp=592.5nm FWHM=110.7nm  
 Render Index:Ra=69.5  
 R1 =66 R2 =80 R3 =92 R4 =65 R5 =64 R6 =71 R7 =76  
 R8 =41 R9 =0 R10=53 R11=59 R12=45 R13=68 R14=95 R15=59

**Photo Parameters:**

Flux = 1429 lm Eff. : 72.83 lm/W Fe = 4.102 W

**Electrical parameters:**

V = 220.02 V I = 0.1725 A P = 19.62 W PF = 0.5169

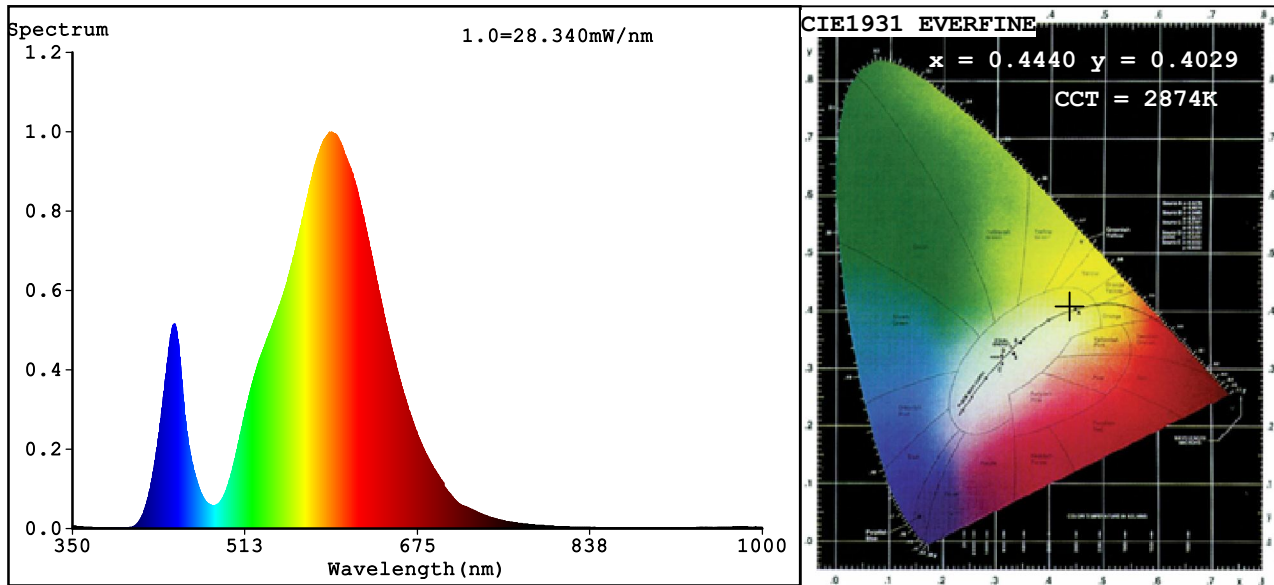
WHITE:ANSI\_3000K

Status: Integral T = 20 ms Ip = 42356 (65%)

Model:LED PANELS ROUND STELLAR/18W	Number:99XLED615
Tester:Petya Marinova	Date:2016-11-09 08:37
Temperature:25.3Deg	Humidity:65.0%
Manufacturer:ELMARK	Remarks:016V030A_3181



**Spectrum Test Report**



**Color Parameters:**

Chromaticity Coordinate:  $x=0.4440$   $y=0.4029$   $u'=0.2557$   $v'=0.5220$   
 CCT=2874K(Duv=-0.0014) Dominant WL:Ld =583.9nm Purity=54.2%  
 Ratio:R=21.8% G=76.9% B=1.3%;;Peak WL:Lp=592.5nm FWHM=110.4nm  
 Render Index:Ra=69.5  
 R1 =66 R2 =80 R3 =92 R4 =65 R5 =64 R6 =71 R7 =76  
 R8 =41 R9 =0 R10=54 R11=59 R12=45 R13=68 R14=95 R15=59

**Photo Parameters:**

Flux = 1319 lm Eff. : 68.07 lm/W Fe = 3.780 W

**Electrical parameters:**

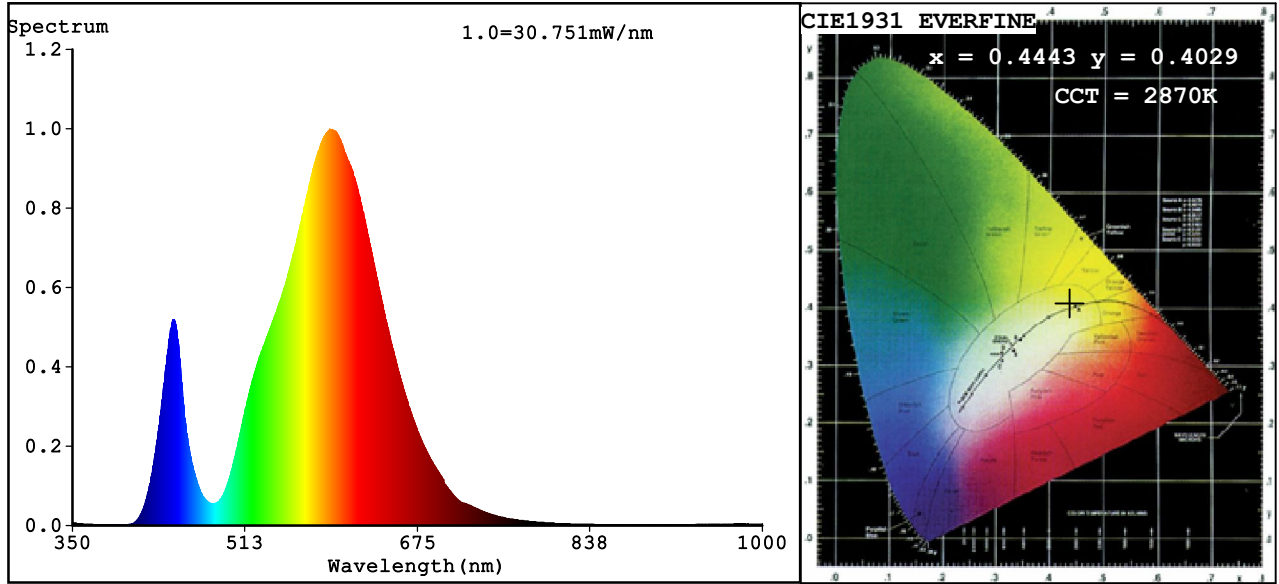
V = 220.01 V I = 0.1714 A P = 19.38 W PF = 0.5139

WHITE:ANSI\_3000K

Status: Integral T = 20 ms Ip = 39122 (60%)

Model:LED PANELS ROUND STELLAR/18W	Number:99XLED615
Tester:Petya Marinova	Date:2016-11-09 08:42
Temperature:25.3Deg	Humidity:65.0%
Manufacturer:ELMARK	Remarks:016V030A_3181

**Spectrum Test Report**



**Color Parameters:**

Chromaticity Coordinate:  $x=0.4443$   $y=0.4029$   $u'=0.2558$   $v'=0.5220$   
 CCT=2870K(Duv=-0.0014) Dominant WL:Ld =583.9nm Purity=54.3%  
 Ratio:R=21.8% G=76.9% B=1.3%;;Peak WL:Lp=592.5nm FWHM=110.6nm  
 Render Index:Ra=69.3  
 R1 =66 R2 =80 R3 =92 R4 =65 R5 =64 R6 =71 R7 =76  
 R8 =41 R9 =0 R10=53 R11=59 R12=45 R13=68 R14=95 R15=59

**Photo Parameters:**

Flux = 1431 lm Eff. : 72.76 lm/W Fe = 4.104 W

**Electrical parameters:**

V = 220.01 V I = 0.1731 A P = 19.66 W PF = 0.5163

WHITE:ANSI\_3000K

Status: Integral T = 20 ms Ip = 42430 (65%)

Model:LED PANELS ROUND STELLAR/18W	Number:99XLED615
Tester:Petya Marinova	Date:2016-11-09 08:44
Temperature:25.3Deg	Humidity:65.0%
Manufacturer:ELMARK	Remarks:016V030A_3181