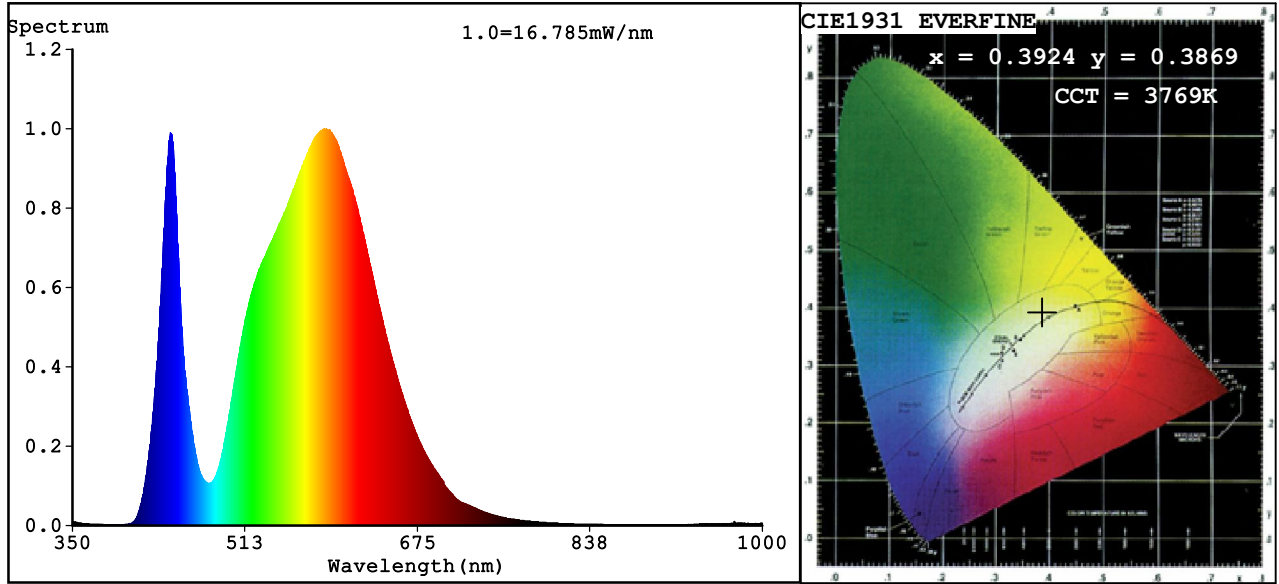


Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3924$ $y=0.3869$ $u'=0.2289$ $v'=0.5077$
 CCT=3769K (Duv=0.0014) Dominant WL:Ld =579.3nm Purity=33.9%
 Ratio:R=17.6% G=80.3% B=2.1%;; Peak WL:Lp=587.2nm FWHM=132.0nm
 Render Index:Ra=72.9
 R1 =70 R2 =79 R3 =87 R4 =73 R5 =70 R6 =71 R7 =80
 R8 =53 R9 =0 R10=51 R11=71 R12=50 R13=71 R14=92 R15=63

Photo Parameters:

Flux = 917.2 lm Eff. : 72.64 lm/W Fe = 2.667 W

Electrical parameters:

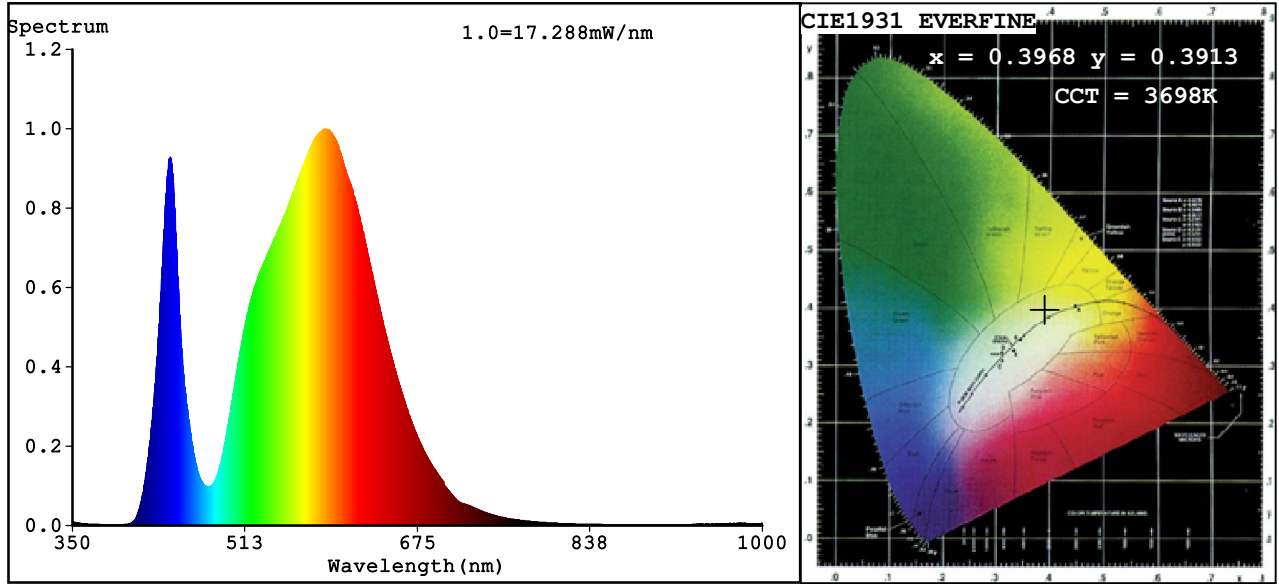
V = 220.16 V I = 0.1136 A P = 12.63 W PF = 0.5048

WHITE:ANSI_4000K

Status: Integral T = 43 ms Ip = 50951 (78%)

Model:LED PANELS ROUND STELLAR/12W	Number:99XLED611
Tester:Petya Marinova	Date:2016-12-05 14:28
Temperature:25.3Deg	Humidity:65.0%
Manufacturer:ELMARK	Remarks:016V030A_3181

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3968$ $y=0.3913$ $u'=0.2299$ $v'=0.5102$
 CCT=3698K(Duv=0.0023) Dominant WL:Ld =579.2nm Purity=36.5%
 Ratio:R=17.8% G=80.2% B=2.0%;;Peak WL:Lp=587.1nm FWHM=131.4nm
 Render Index:Ra=72.4
 R1 =69 R2 =78 R3 =87 R4 =73 R5 =70 R6 =71 R7 =80
 R8 =52 R9 =0 R10=50 R11=71 R12=49 R13=70 R14=92 R15=62

Photo Parameters:

Flux = 937.7 lm Eff. : 72.46 lm/W Fe = 2.708 W

Electrical parameters:

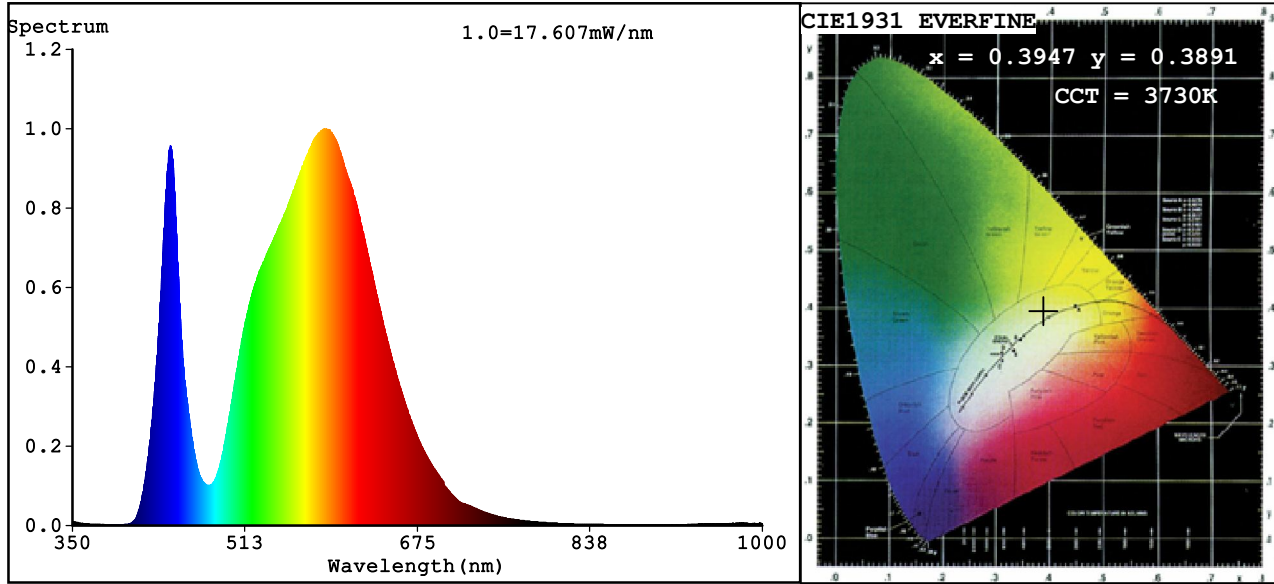
V = 220.12 V I = 0.1158 A P = 12.94 W PF = 0.5077

WHITE:ANSI_3500K

Status: Integral T = 43 ms Ip = 52404 (80%)

Model:LED PANELS ROUND STELLAR/12W	Number:99XLED611
Tester:Petya Marinova	Date:2016-12-05 14:43
Temperature:25.3Deg	Humidity:65.0%
Manufacturer:ELMARK	Remarks:016V030A_3181

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3947$ $y=0.3891$ / $u'=0.2295$ $v'=0.5090$
 CCT=3730K (Duv=0.0018) Dominant WL:Ld =579.3nm Purity=35.3%
 Ratio:R=17.7% G=80.3% B=2.0%;; Peak WL:Lp=589.2nm FWHM=131.7nm
 Render Index:Ra=72.6
 R1 =70 R2 =78 R3 =87 R4 =73 R5 =70 R6 =71 R7 =80
 R8 =52 R9 =0 R10=50 R11=71 R12=49 R13=71 R14=92 R15=62

Photo Parameters:

Flux = 958.3 lm Eff. : 74.89 lm/W Fe = 2.778 W

Electrical parameters:

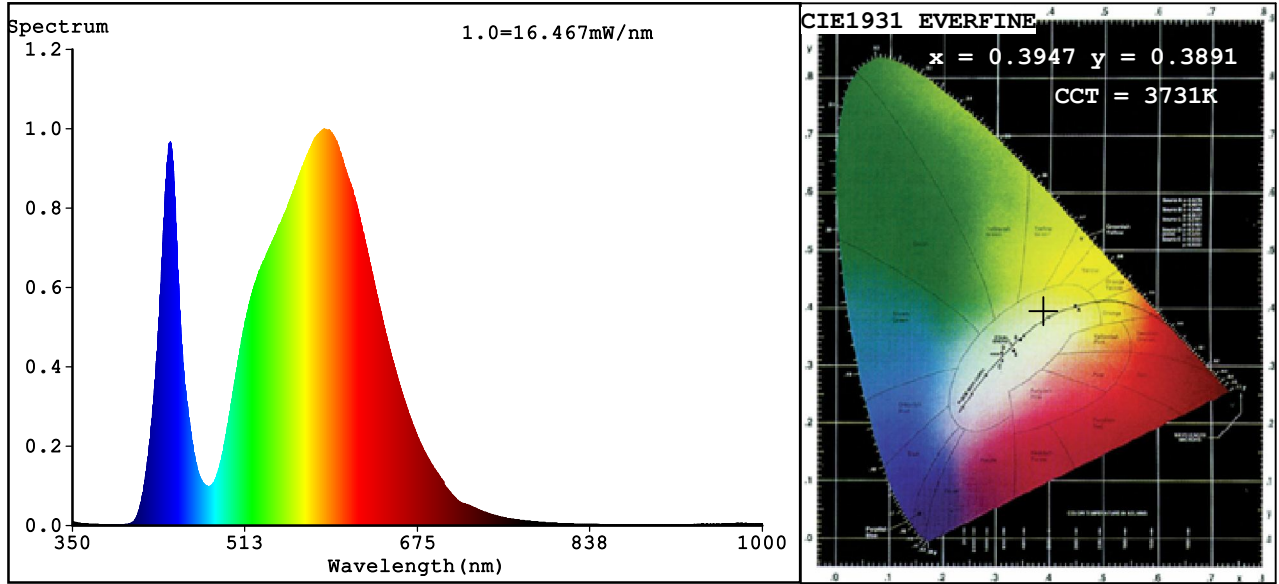
V = 220.07 V I = 0.1156 A P = 12.80 W PF = 0.5030

WHITE:ANSI_4000K

Status: Integral T = 43 ms Ip = 53421 (82%)

Model:LED PANELS ROUND STELLAR/12W	Number:99XLED611
Tester:Petya Marinova	Date:2016-12-05 14:45
Temperature:25.3Deg	Humidity:65.0%
Manufacturer:ELMARK	Remarks:016V030A_3181

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3947$ $y=0.3891$ / $u'=0.2295$ $v'=0.5090$
 CCT=3731K (Duv=0.0018) Dominant WL:Ld =579.2nm Purity=35.3%
 Ratio:R=17.7% G=80.3% B=2.0%;; Peak WL:Lp=587.1nm FWHM=131.9nm
 Render Index:Ra=72.6
 R1 =70 R2 =78 R3 =87 R4 =73 R5 =70 R6 =71 R7 =80
 R8 =52 R9 =0 R10=50 R11=71 R12=49 R13=71 R14=92 R15=62

Photo Parameters:

Flux = 896.0 lm Eff. : 69.96 lm/W Fe = 2.597 W

Electrical parameters:

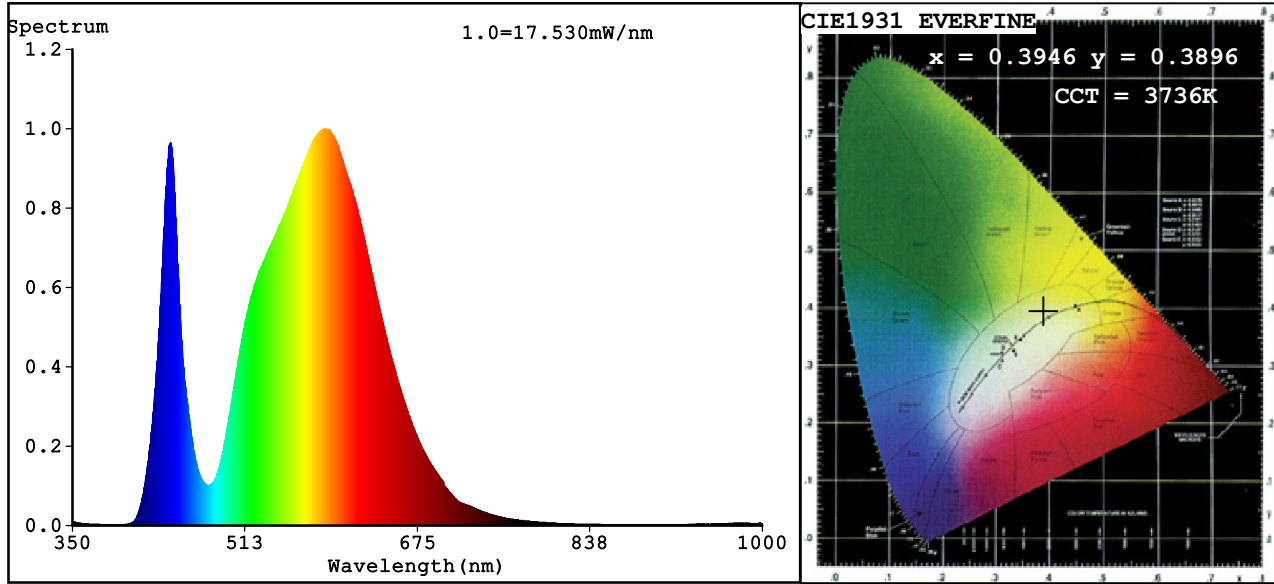
V = 220.04 V I = 0.1154 A P = 12.81 W PF = 0.5044

WHITE:ANSI_4000K

Status: Integral T = 43 ms Ip = 49926 (76%)

Model:LED PANELS ROUND STELLAR/12W	Number:99XLED611
Tester:Petya Marinova	Date:2016-12-05 14:49
Temperature:25.3Deg	Humidity:65.0%
Manufacturer:ELMARK	Remarks:016V030A_3181

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3946$ $y=0.3896$ / $u'=0.2292$ $v'=0.5092$
CCT=3736K(Duv=0.0020) Dominant WL:Ld =579.1nm Purity=35.4%
Ratio:R=17.6% G=80.3% B=2.1%;; Peak WL:Lp=587.1nm FWHM=131.5nm
Render Index:Ra=72.5
R1 =70 R2 =78 R3 =87 R4 =73 R5 =70 R6 =71 R7 =80
R8 =52 R9 =0 R10=50 R11=71 R12=49 R13=71 R14=92 R15=62

Photo Parameters:

Flux = 954.0 lm Eff. : 74.85 lm/W Fe = 2.759 W

Electrical parameters:

V = 220.03 V I = 0.1143 A P = 12.75 W PF = 0.5070

WHITE:ANSI_4000K

Status: Integral T = 43 ms Ip = 53206 (81%)

Model:LED PANELS ROUND STELLAR/12W	Number:99XLED611
Tester:Petya Marinova	Date:2016-12-05 14:51
Temperature:25.3Deg	Humidity:65.0%
Manufacturer:ELMARK	Remarks:016V030A_3181