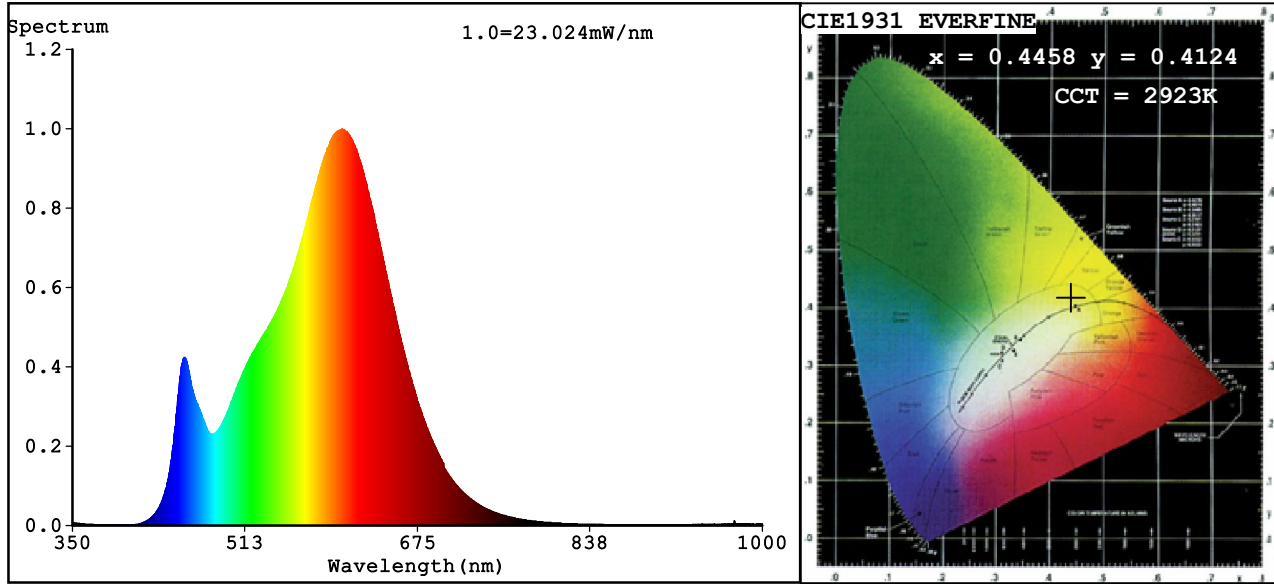


**Spectrum Test Report**



**Color Parameters:**

Chromaticity Coordinate:  $x=0.4458$   $y=0.4124$   $u'=0.2527$   $v'=0.5259$   
 CCT=2923K(Duv=0.0021) Dominant WL:Ld =582.5nm Purity=57.6%  
 Ratio:R=23.3% G=74.0% B=2.7%;;Peak WL:Lp=604.1nm FWHM=122.6nm  
 Render Index:Ra=82.2  
 R1 =81 R2 =92 R3 =95 R4 =79 R5 =81 R6 =91 R7 =82  
 R8 =57 R9 =5 R10=82 R11=78 R12=72 R13=84 R14=98 R15=72

**Photo Parameters:**

Flux = 1106 lm Eff. : 89.66 lm/W Fe = 3.357 W

**Electrical parameters:**

V = 229.92 V I = 0.09373 A P = 12.34 W PF = 0.5724

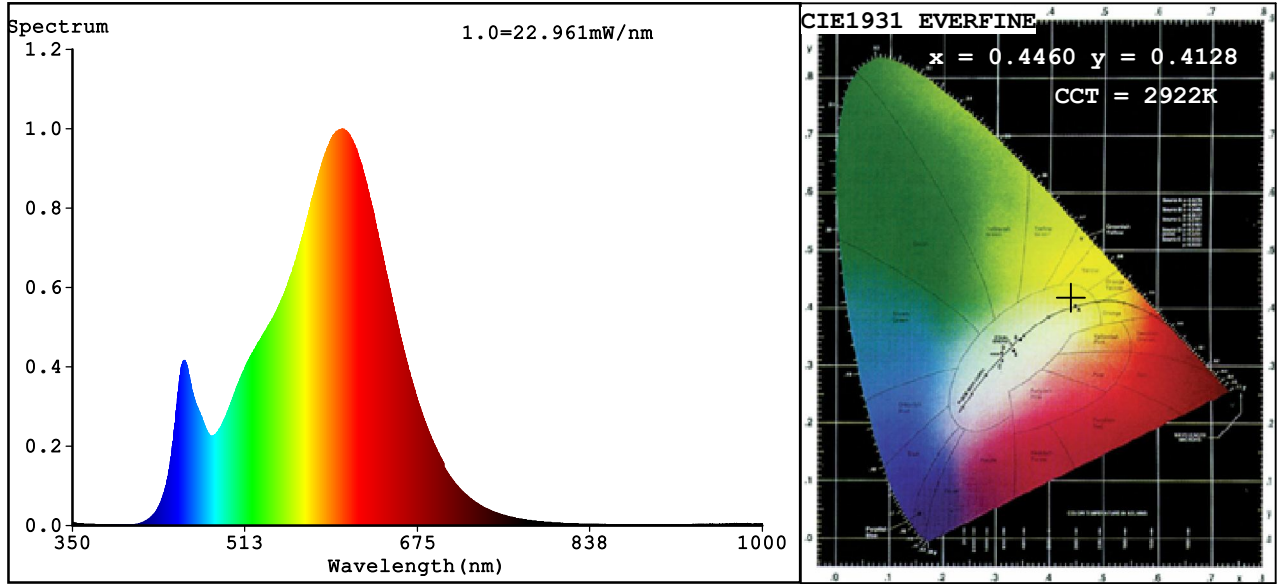
WHITE:ANSI\_3000K

Status: Integral T = 42 ms Ip = 48763 (74%)

Model:LED PEAR A60/12W  
 Tester:Petya Marinova  
 Temperature:25.3Deg  
 Manufacturer:ELMARK

Number:99LED587  
 Date:2018-03-29 15:47  
 Humidity:65.0%  
 Remarks:017A045\_4393

**Spectrum Test Report**



**Color Parameters:**

Chromaticity Coordinate:  $x=0.4460$   $y=0.4128$   $u'=0.2526$   $v'=0.5261$   
 CCT=2922K(Duv=0.0022) Dominant WL:Ld =582.4nm Purity=57.8%  
 Ratio:R=23.3% G=74.1% B=2.7%;;Peak WL:Lp=604.1nm FWHM=122.9nm  
 Render Index:Ra=82.1  
 R1 =81 R2 =92 R3 =95 R4 =79 R5 =81 R6 =91 R7 =82  
 R8 =57 R9 =5 R10=82 R11=78 R12=71 R13=83 R14=98 R15=72

**Photo Parameters:**

Flux = 1104 lm Eff. : 89.03 lm/W Fe = 3.349 W

**Electrical parameters:**

V = 229.96 V I = 0.09403 A P = 12.40 W PF = 0.5737

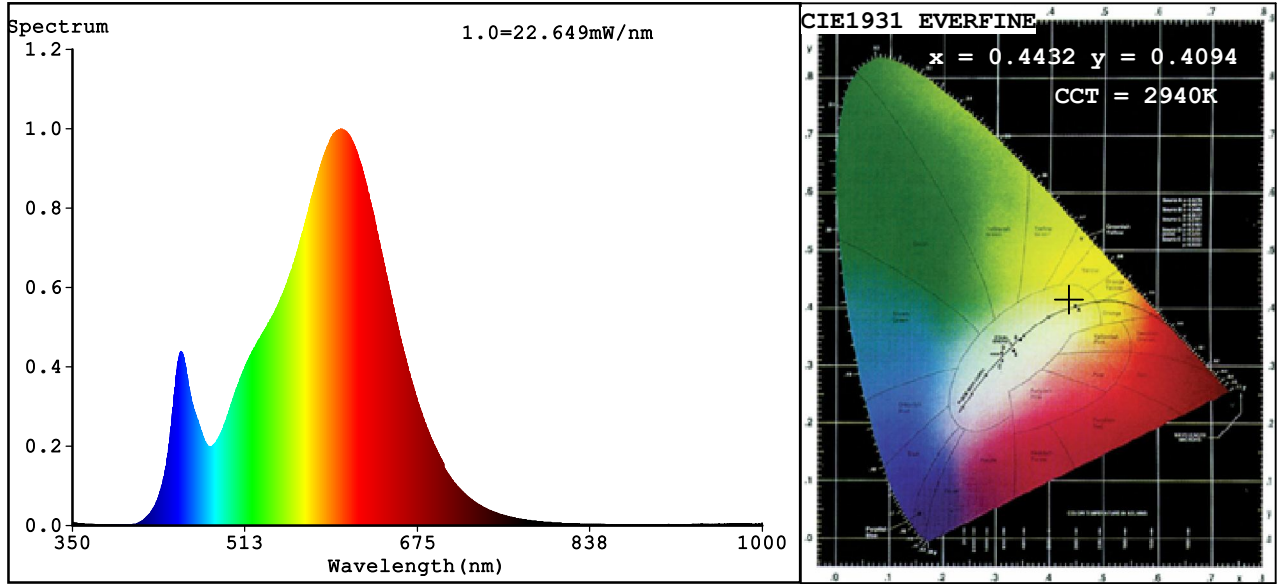
WHITE:ANSI\_3000K

Status: Integral T = 42 ms Ip = 48653 (74%)

Model:LED PEAR A60/12W  
 Tester:Petya Marinova  
 Temperature:25.3Deg  
 Manufacturer:ELMARK

Number:99LED587  
 Date:2018-03-29 15:59  
 Humidity:65.0%  
 Remarks:017A045\_4393

**Spectrum Test Report**



**Color Parameters:**

Chromaticity Coordinate:  $x=0.4432$   $y=0.4094$  /  $u'=0.2523$   $v'=0.5244$   
 CCT=2940K (Duv=0.0013) Dominant WL:Ld =582.6nm Purity=55.9%  
 Ratio:R=23.1% G=74.4% B=2.5%;; Peak WL:Lp=602.8nm FWHM=124.0nm  
 Render Index:Ra=81.7  
 R1 =80    R2 =91    R3 =96    R4 =79    R5 =80    R6 =89    R7 =82  
 R8 =57    R9 =3    R10=79    R11=78    R12=71    R13=82    R14=98    R15=72

**Photo Parameters:**

Flux = 1095 lm    Eff. : 91.15 lm/W    Fe = 3.318 W

**Electrical parameters:**

V = 229.97 V    I = 0.09150 A    P = 12.01 W PF = 0.5707

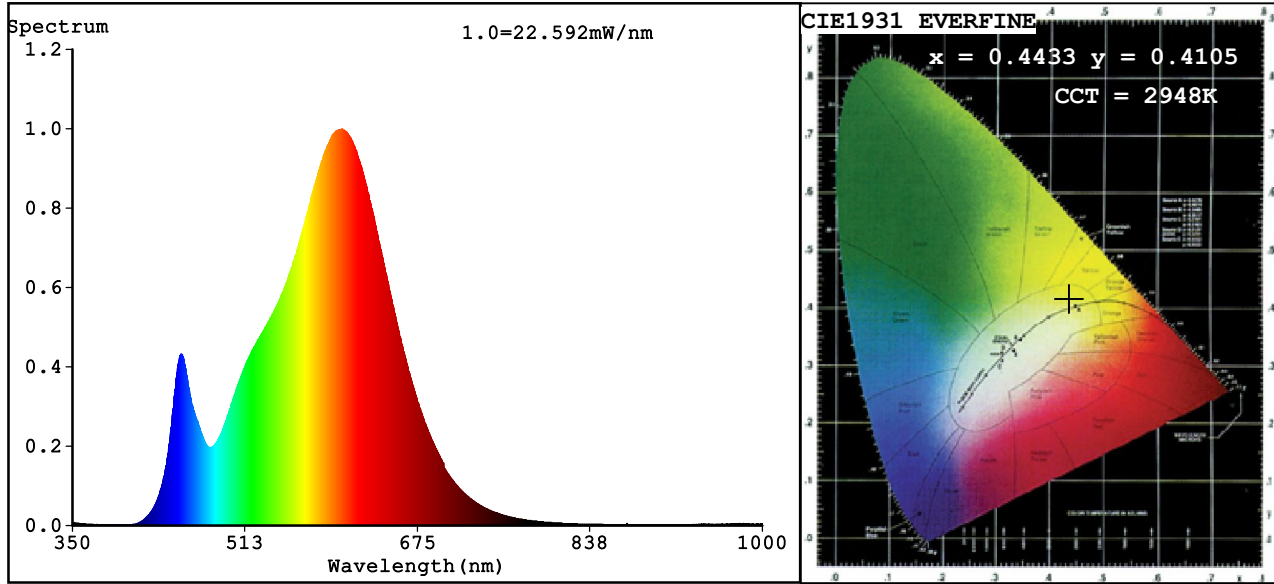
WHITE:ANSI\_3000K

Status: Integral T = 42 ms    Ip = 48008 (73%)

Model:LED PEAR A60/12W  
 Tester:Petya Marinova  
 Temperature:25.3Deg  
 Manufacturer:ELMARK

Number:99LED587  
 Date:2018-03-29 16:00  
 Humidity:65.0%  
 Remarks:017A045\_4393

**Spectrum Test Report**



**Color Parameters:**

Chromaticity Coordinate:  $x=0.4433$   $y=0.4105$   $u'=0.2519$   $v'=0.5248$   
 CCT=2948K(Duv=0.0017) Dominant WL:Ld =582.5nm Purity=56.3%  
 Ratio:R=23.0% G=74.5% B=2.5%;;Peak WL:Lp=604.1nm FWHM=124.8nm  
 Render Index:Ra=81.6  
 R1 =80 R2 =90 R3 =96 R4 =79 R5 =80 R6 =89 R7 =82  
 R8 =57 R9 =3 R10=78 R11=78 R12=70 R13=82 R14=99 R15=72

**Photo Parameters:**

Flux = 1096 lm Eff. : 90.29 lm/W Fe = 3.315 W

**Electrical parameters:**

V = 229.94 V I = 0.09228 A P = 12.14 W PF = 0.5723

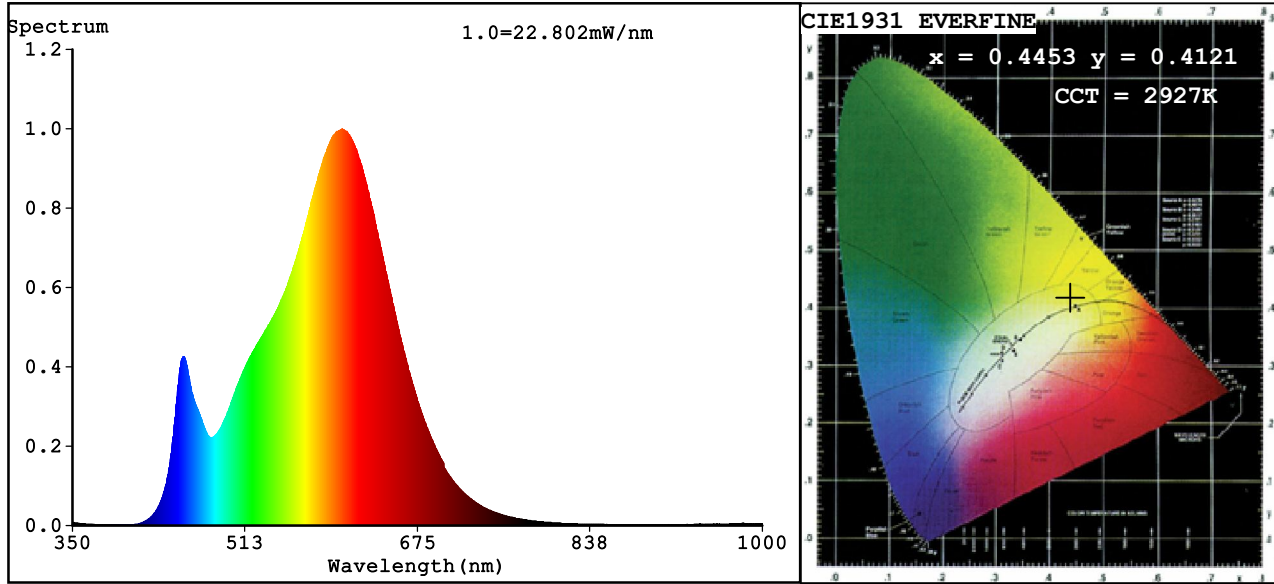
WHITE:ANSI\_3000K

Status: Integral T = 42 ms Ip = 47833 (73%)

Model:LED PEAR A60/12W  
 Tester:Petya Marinova  
 Temperature:25.3Deg  
 Manufacturer:ELMARK

Number:99LED587  
 Date:2018-03-29 16:03  
 Humidity:65.0%  
 Remarks:017A045\_4393

**Spectrum Test Report**



**Color Parameters:**

Chromaticity Coordinate:  $x=0.4453$   $y=0.4121/u'=0.2525$   $v'=0.5257$

CCT=2927K(Duv=0.0020) Dominant WL:Ld =582.5nm Purity=57.4%

Ratio:R=23.2% G=74.1% B=2.7%;;Peak WL:Lp=604.1nm FWHM=122.9nm

Render Index:Ra=82.2

R1 =81	R2 =92	R3 =95	R4 =79	R5 =81	R6 =91	R7 =82	
R8 =57	R9 =5	R10=81	R11=78	R12=71	R13=83	R14=98	R15=72

**Photo Parameters:**

Flux = 1097 lm Eff. : 91.10 lm/W Fe = 3.327 W

**Electrical parameters:**

V = 229.94 V I = 0.09173 A P = 12.04 W PF = 0.5707

WHITE:ANSI\_3000K

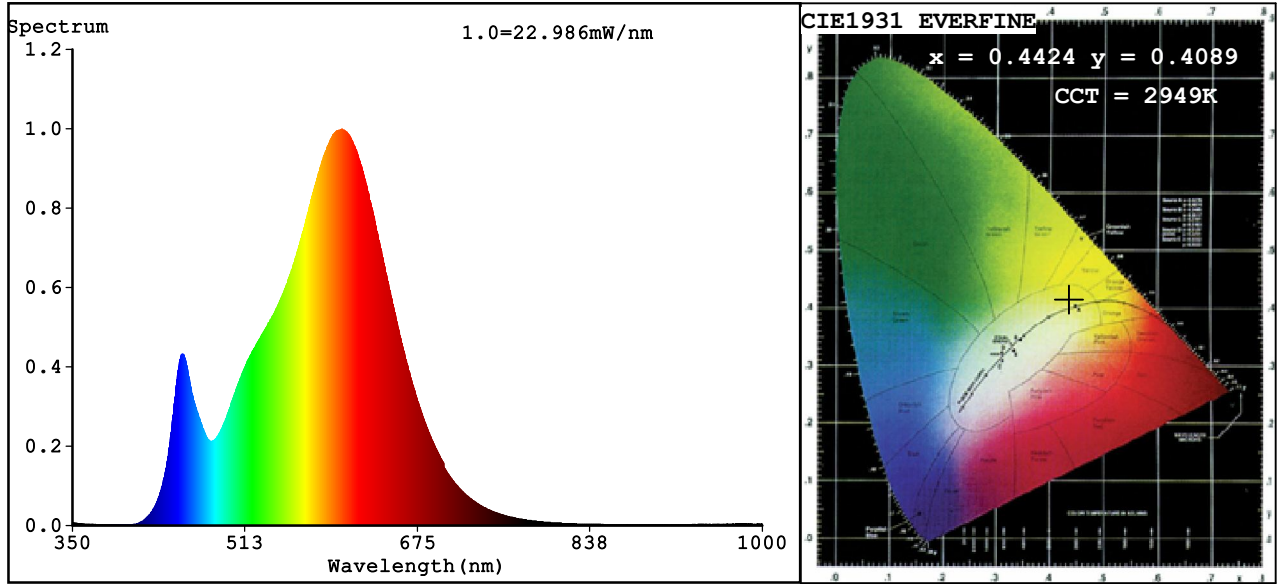
Status: Integral T = 42 ms Ip = 48259 (74%)

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Model:LED PEAR A60/12W  
Tester:Petya Marinova  
Temperature:25.3Deg  
Manufacturer:ELMARK

Number:99LED587  
Date:2018-03-29 16:05  
Humidity:65.0%  
Remarks:017A045\_4393

**Spectrum Test Report**



**Color Parameters:**

Chromaticity Coordinate:  $x=0.4424$   $y=0.4089$  /  $u'=0.2520$   $v'=0.5241$   
 CCT=2949K (Duv=0.0012) Dominant WL:Ld =582.6nm Purity=55.5%  
 Ratio:R=23.1% G=74.3% B=2.6%; Peak WL:Lp=604.1nm FWHM=123.9nm  
 Render Index:Ra=81.9  
 R1 =80 R2 =91 R3 =96 R4 =79 R5 =80 R6 =90 R7 =82  
 R8 =57 R9 =4 R10=80 R11=78 R12=71 R13=83 R14=98 R15=72

**Photo Parameters:**

Flux = 1111 lm Eff. : 89.55 lm/W Fe = 3.375 W

**Electrical parameters:**

V = 229.94 V I = 0.09403 A P = 12.41 W PF = 0.5740

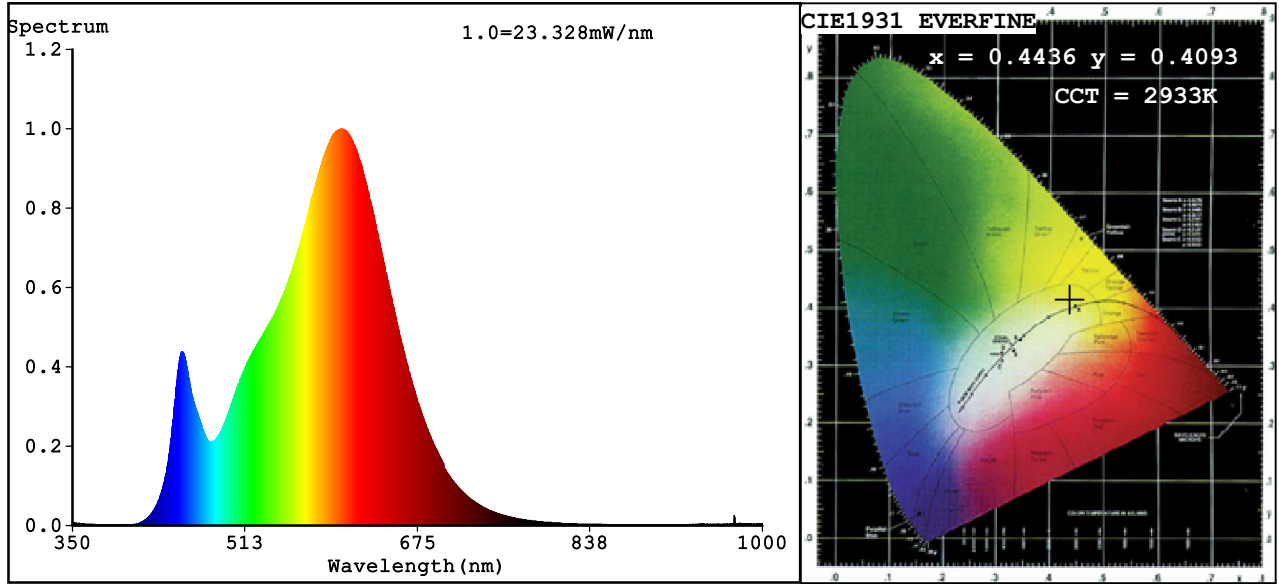
WHITE:ANSI\_3000K

Status: Integral T = 42 ms Ip = 48663 (74%)

Model:LED PEAR A60/12W  
 Tester:Petya Marinova  
 Temperature:25.3Deg  
 Manufacturer:ELMARK

Number:99LED587  
 Date:2018-03-29 16:07  
 Humidity:65.0%  
 Remarks:017A045\_4393

**Spectrum Test Report**



**Color Parameters:**

Chromaticity Coordinate:  $x=0.4436$   $y=0.4093$   $u'=0.2526$   $v'=0.5244$   
 CCT=2933K(Duv=0.0012) Dominant WL:Ld =582.7nm Purity=56.0%  
 Ratio:R=23.2% G=74.2% B=2.6%;;Peak WL:Lp=604.1nm FWHM=122.8nm  
 Render Index:Ra=81.9

R1 =80	R2 =91	R3 =95	R4 =79	R5 =80	R6 =90	R7 =82	
R8 =57	R9 =4	R10=80	R11=78	R12=71	R13=83	R14=98	R15=72

**Photo Parameters:**

Flux = 1124 lm Eff. : 91.53 lm/W Fe = 3.415 W

**Electrical parameters:**

V = 229.96 V I = 0.09336 A P = 12.28 W PF = 0.5721

WHITE:ANSI\_3000K

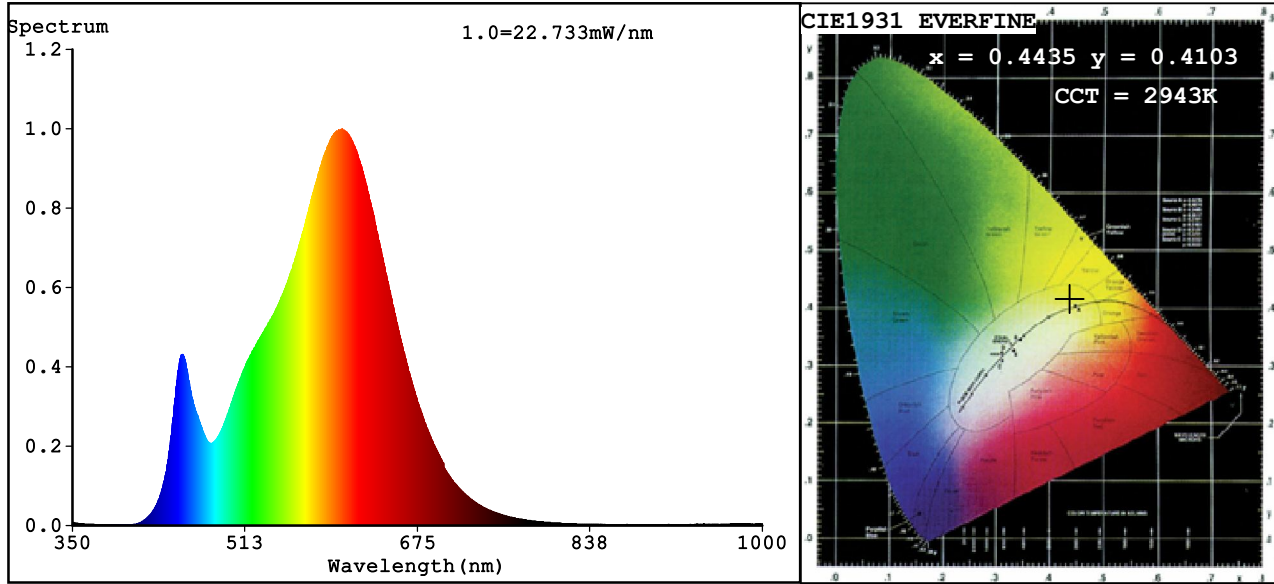
Status: Integral T = 42 ms Ip = 49466 (75%)

Model:LED PEAR A60/12W  
 Tester:Petya Marinova  
 Temperature:25.3Deg  
 Manufacturer:ELMARK

Number:99LED587  
 Date:2018-03-29 16:08  
 Humidity:65.0%  
 Remarks:017A045\_4393



**Spectrum Test Report**



**Color Parameters:**

Chromaticity Coordinate:  $x=0.4435$   $y=0.4103$   $u'=0.2521$   $v'=0.5248$   
 CCT=2943K(Duv=0.0016) Dominant WL:Ld =582.5nm Purity=56.3%  
 Ratio:R=23.1% G=74.3% B=2.6%;;Peak WL:Lp=604.1nm FWHM=124.0nm  
 Render Index:Ra=81.8  
 R1 =80 R2 =91 R3 =96 R4 =79 R5 =80 R6 =89 R7 =82  
 R8 =57 R9 =4 R10=80 R11=78 R12=71 R13=83 R14=98 R15=72

**Photo Parameters:**

Flux = 1099 lm Eff. : 91.42 lm/W Fe = 3.329 W

**Electrical parameters:**

V = 229.94 V I = 0.09162 A P = 12.02 W PF = 0.5706

WHITE:ANSI\_3000K

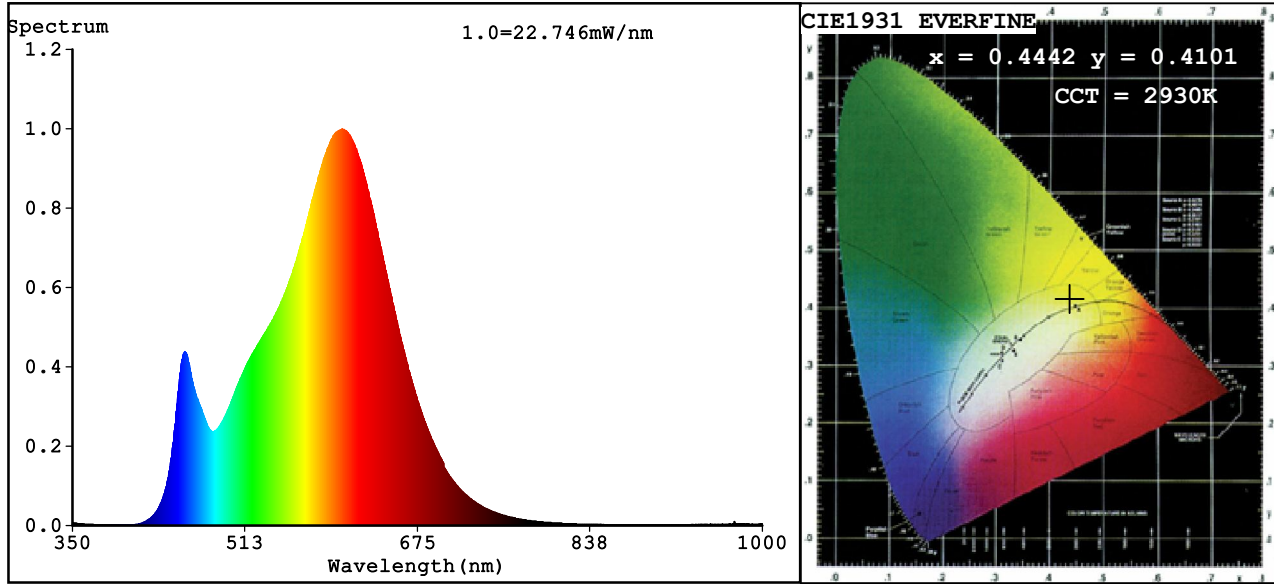
Status: Integral T = 42 ms Ip = 48154 (73%)

Model:LED PEAR A60/12W  
 Tester:Petya Marinova  
 Temperature:25.3Deg  
 Manufacturer:ELMARK

Number:99LED587  
 Date:2018-03-29 16:10  
 Humidity:65.0%  
 Remarks:017A045\_4393



**Spectrum Test Report**



**Color Parameters:**

Chromaticity Coordinate:  $x=0.4442$   $y=0.4101$  /  $u'=0.2526$   $v'=0.5248$   
CCT=2930K (Duv=0.0014) Dominant WL:Ld =582.6nm Purity=56.4%  
Ratio:R=23.3% G=73.9% B=2.8%;; Peak WL:Lp=604.1nm FWHM=122.4nm  
Render Index:Ra=82.5  
R1 =81      R2 =93      R3 =94      R4 =79      R5 =81      R6 =92      R7 =82  
R8 =58      R9 =6      R10=83      R11=78      R12=73      R13=84      R14=97      R15=73

**Photo Parameters:**

Flux = 1092 lm    Eff. : 89.65 lm/W    Fe = 3.328 W

**Electrical parameters:**

V = 229.95 V      I = 0.09260 A      P = 12.18 W PF = 0.5720

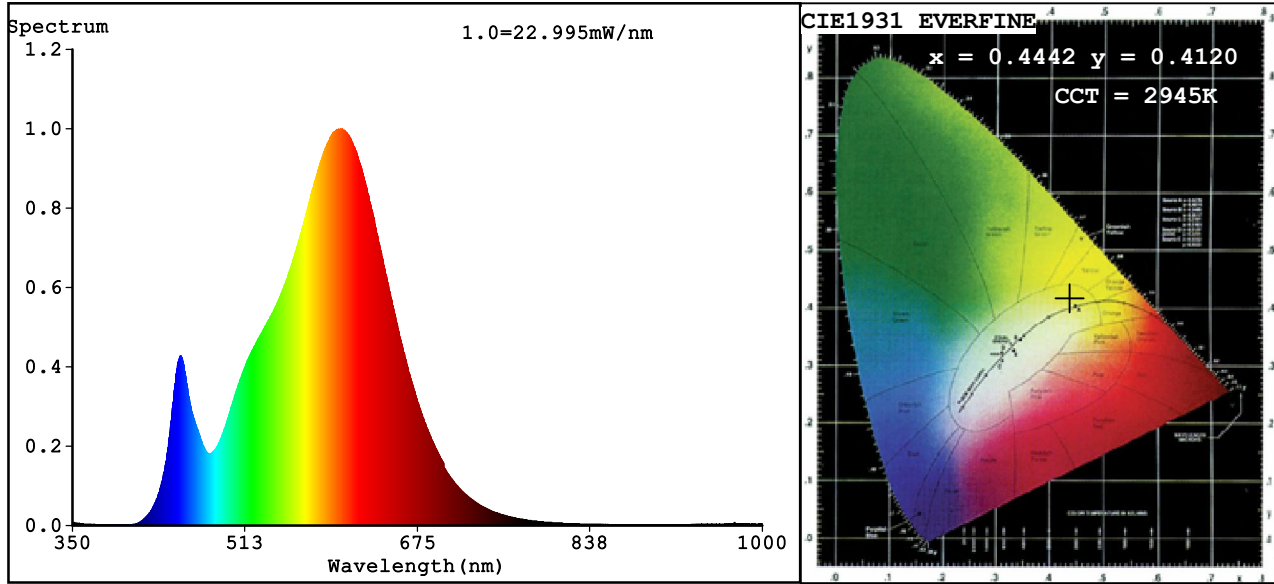
WHITE:ANSI\_3000K

Status: Integral T = 42 ms    Ip = 48184 (74%)

Model:LED PEAR A60/12W  
Tester:Petya Marinova  
Temperature:25.3Deg  
Manufacturer:ELMARK

Number:99LED587  
Date:2018-03-29 16:16  
Humidity:65.0%  
Remarks:017A045\_4393

**Spectrum Test Report**



**Color Parameters:**

Chromaticity Coordinate:  $x=0.4442$   $y=0.4120$  /  $u'=0.2518$   $v'=0.5255$   
 CCT=2945K (Duv=0.0022) Dominant WL:Ld =582.3nm Purity=57.0%  
 Ratio:R=22.8% G=74.8% B=2.4%; Peak WL:Lp=602.5nm FWHM=125.2nm  
 Render Index:Ra=80.9  
 R1 =79 R2 =89 R3 =97 R4 =78 R5 =78 R6 =87 R7 =82  
 R8 =56 R9 =0 R10=76 R11=77 R12=68 R13=81 R14=99 R15=71

**Photo Parameters:**

Flux = 1120 lm Eff. : 91.06 lm/W Fe = 3.370 W

**Electrical parameters:**

V = 229.95 V I = 0.09356 A P = 12.30 W PF = 0.5718

WHITE:ANSI\_3000K

Status: Integral T = 42 ms Ip = 48751 (74%)

Model:LED PEAR A60/12W  
 Tester:Petya Marinova  
 Temperature:25.3Deg  
 Manufacturer:ELMARK

Number:99LED587  
 Date:2018-03-29 16:18  
 Humidity:65.0%  
 Remarks:017A045\_4393