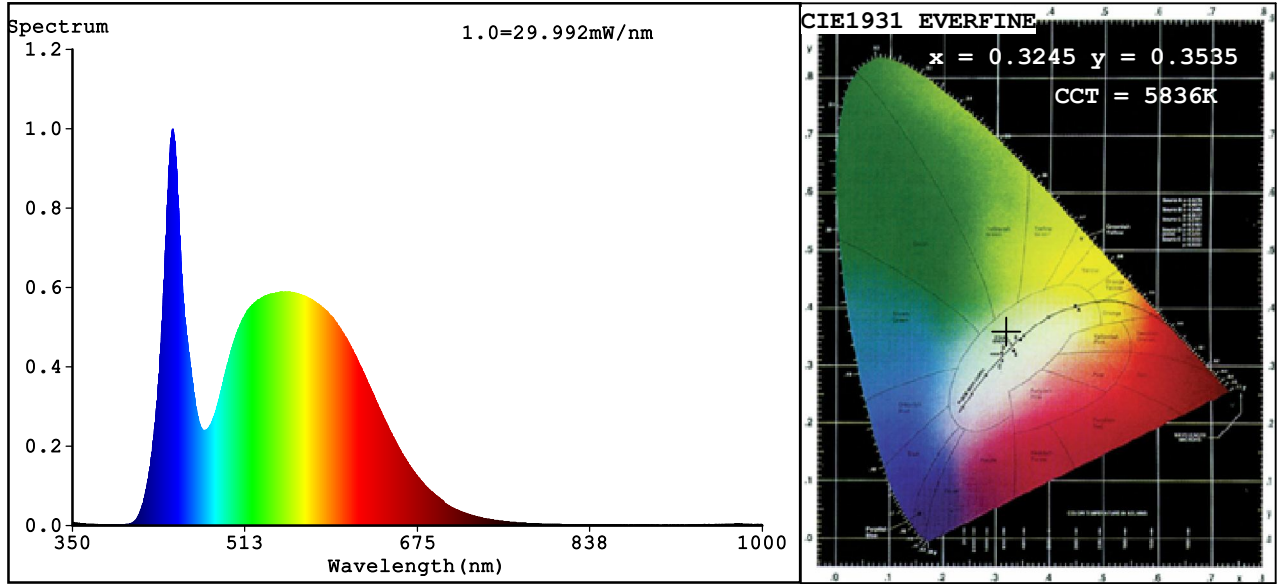


Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3245$ $y=0.3535/u'=0.1969$ $v'=0.4825$

CCT=5836K(Duv=0.0098) Dominant WL:Ld =525.3nm Purity=4.1%

Ratio:R=13.4% G=81.9% B=4.7%;;Peak WL:Lp=444.5nm FWHM=22.6nm

Render Index:Ra=79.9

R1 =76	R2 =82	R3 =89	R4 =81	R5 =79	R6 =79	R7 =86	
R8 =66	R9 =0	R10=61	R11=81	R12=64	R13=77	R14=94	R15=69

Photo Parameters:

Flux = 1141 lm Eff. : 95.62 lm/W Fe = 3.568 W

Electrical parameters:

V = 229.93 V I = 0.09100 A P = 11.93 W PF = 0.5701

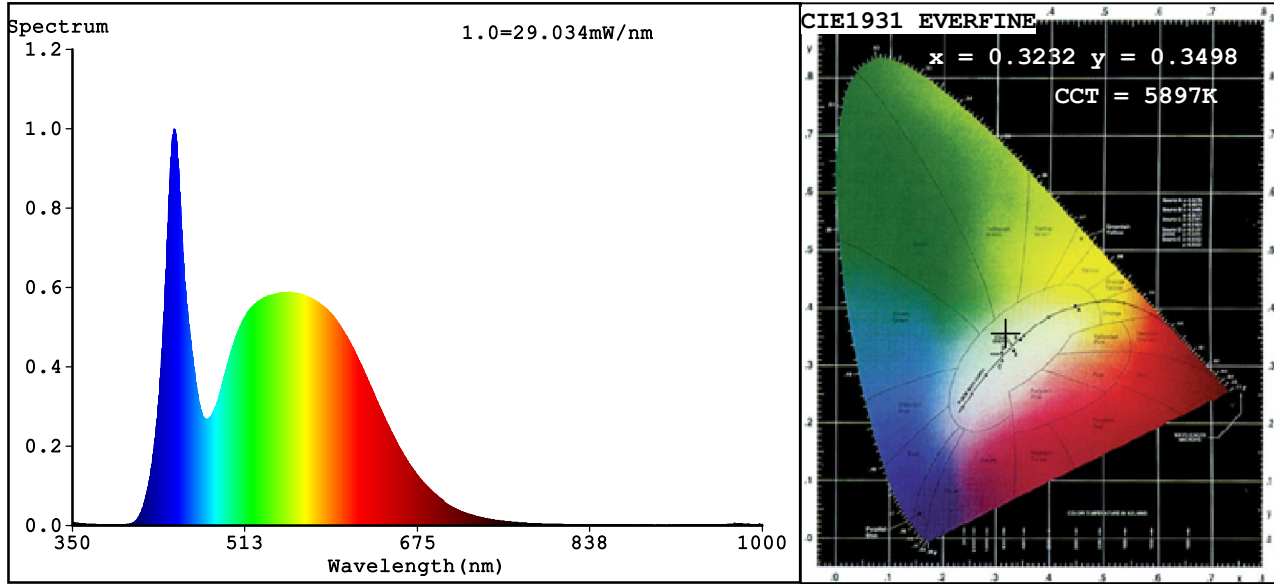
WHITE:OUT

Status: Integral T = 28 ms Ip = 35822 (55%)

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

Number:99LED821
Date:2017-11-03 11:03
Humidity:65.0%
Remarks:017V038B_4096

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3232$ $y=0.3498$ $u'=0.1974$ $v'=0.4806$

CCT=5897K(Duv=0.0086) Dominant WL:Ld =515.1nm Purity=3.4%

Ratio:R=13.5% G=81.5% B=5.0%;;Peak WL:Lp=445.9nm FWHM=24.2nm

Render Index:Ra=81.2

R1 =78	R2 =84	R3 =90	R4 =82	R5 =80	R6 =80	R7 =87	
R8 =67	R9 =0	R10=64	R11=82	R12=64	R13=79	R14=95	R15=72

Photo Parameters:

Flux = 1109 lm Eff. : 92.54 lm/W Fe = 3.493 W

Electrical parameters:

V = 229.95 V I = 0.09170 A P = 11.98 W PF = 0.5681

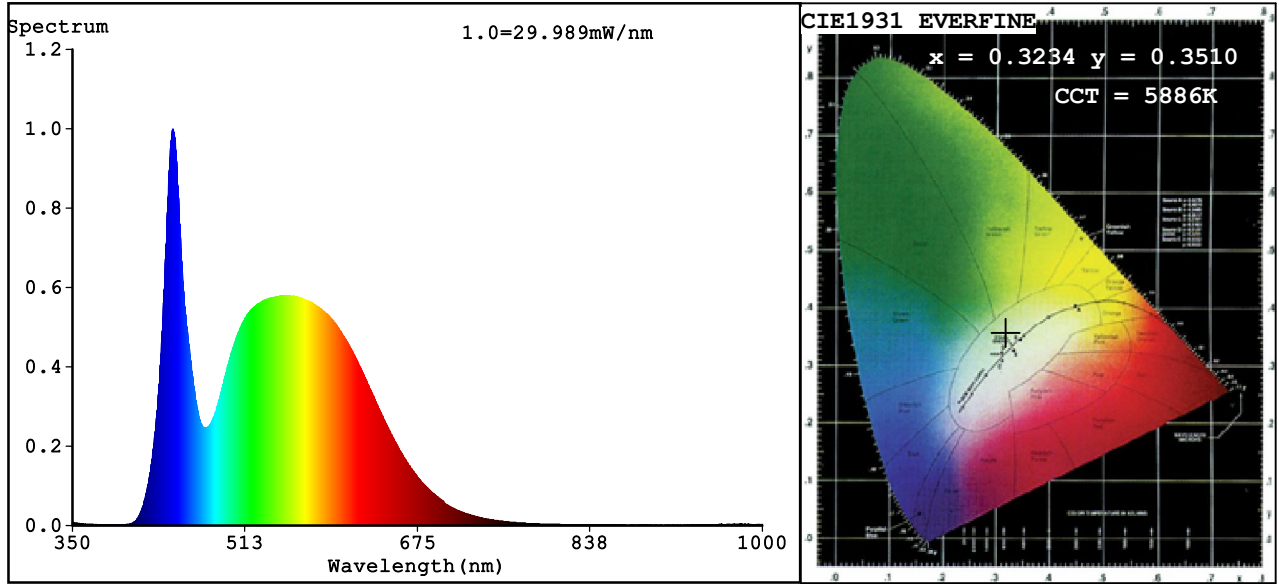
WHITE:OUT

Status: Integral T = 28 ms Ip = 34942 (53%)

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

Number:99LED821
Date:2017-11-03 11:06
Humidity:65.0%
Remarks:017V038B_4096

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3234$ $y=0.3510$ $u'=0.1970$ $v'=0.4812$

CCT=5886K(Duv=0.0091) Dominant WL:Ld =517.5nm Purity=3.6%

Ratio:R=13.4% G=81.8% B=4.8%;;Peak WL:Lp=444.5nm FWHM=23.1nm

Render Index:Ra=80.4

R1 =77	R2 =83	R3 =89	R4 =81	R5 =79	R6 =79	R7 =87	
R8 =67	R9 =0	R10=62	R11=81	R12=64	R13=78	R14=94	R15=70

Photo Parameters:

Flux = 1125 lm Eff. : 92.99 lm/W Fe = 3.534 W

Electrical parameters:

V = 229.90 V I = 0.09263 A P = 12.10 W PF = 0.5682

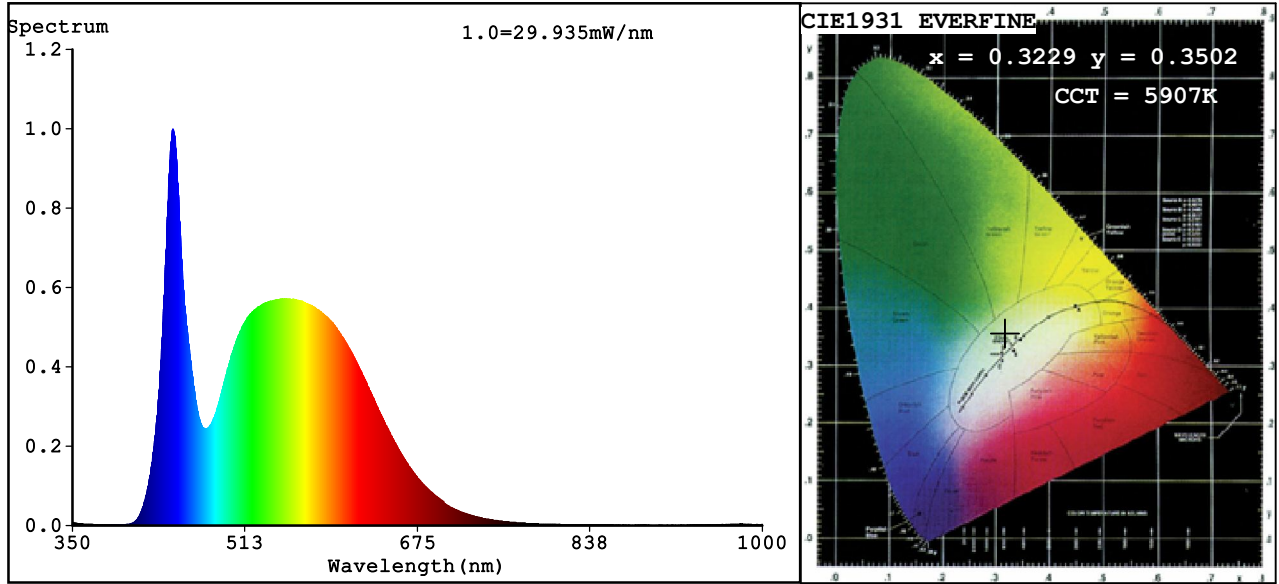
WHITE:OUT

Status: Integral T = 28 ms Ip = 35901 (55%)

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

Number:99LED821
Date:2017-11-03 11:07
Humidity:65.0%
Remarks:017V038B_4096

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3229$ $y=0.3502$ $u'=0.1970$ $v'=0.4807$
 CCT=5907K (Duv=0.0089) Dominant WL:Ld =515.0nm Purity=3.5%
 Ratio:R=13.4% G=81.8% B=4.9%;; Peak WL:Lp=444.5nm FWHM=22.8nm
 Render Index:Ra=80.4
 R1 =77 R2 =83 R3 =89 R4 =82 R5 =79 R6 =79 R7 =87
 R8 =67 R9 =0 R10=62 R11=81 R12=63 R13=78 R14=94 R15=71

Photo Parameters:

Flux = 1107 lm Eff. : 93.00 lm/W Fe = 3.480 W

Electrical parameters:

V = 229.92 V I = 0.09122 A P = 11.91 W PF = 0.5677

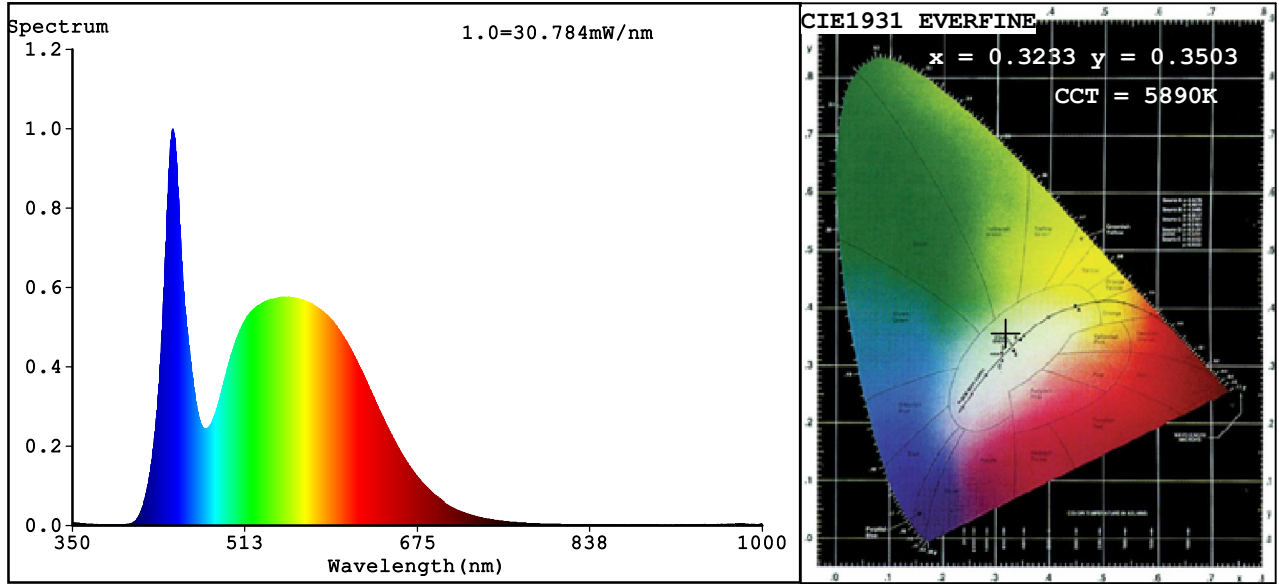
WHITE:OUT

Status: Integral T = 28 ms Ip = 35871 (55%)

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

Number:99LED821
 Date:2017-11-03 11:08
 Humidity:65.0%
 Remarks:017V038B_4096

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3233$ $y=0.3503$ $u'=0.1972$ $v'=0.4808$
 CCT=5890K (Duv=0.0087) Dominant WL:Ld =516.0nm Purity=3.5%
 Ratio:R=13.4% G=81.7% B=4.8%;; Peak WL:Lp=444.5nm FWHM=23.1nm
 Render Index:Ra=80.4
 R1 =77 R2 =83 R3 =89 R4 =82 R5 =79 R6 =79 R7 =86
 R8 =67 R9 =0 R10=62 R11=81 R12=64 R13=78 R14=94 R15=71

Photo Parameters:

Flux = 1147 lm Eff. : 92.06 lm/W Fe = 3.609 W

Electrical parameters:

V = 229.93 V I = 0.09456 A P = 12.46 W PF = 0.5731

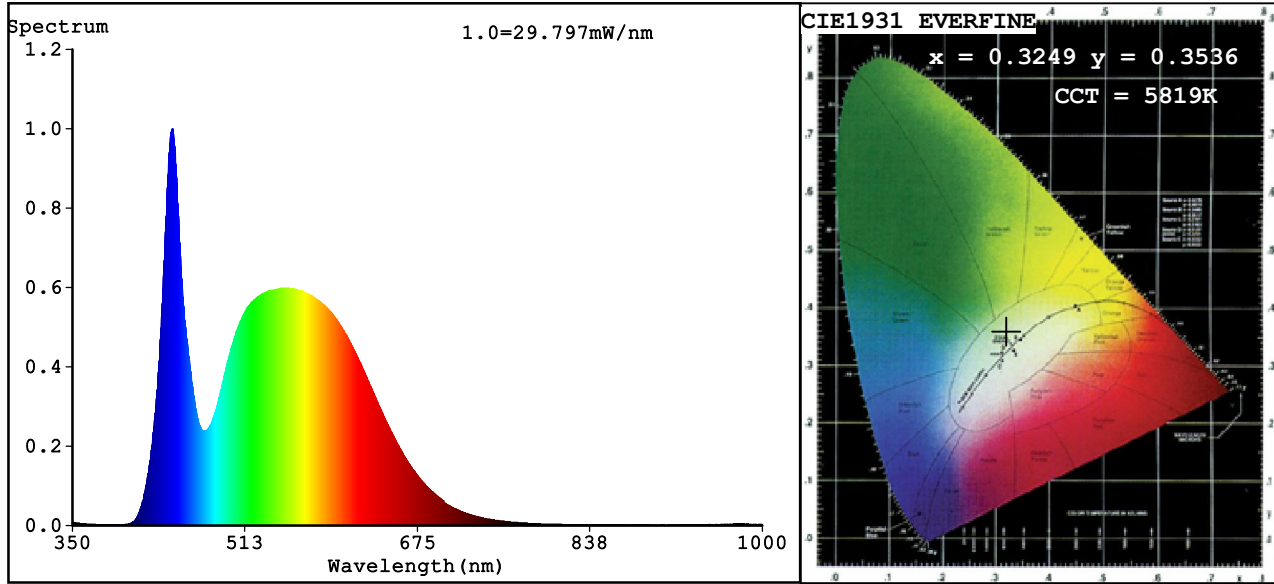
WHITE:OUT

Status: Integral T = 28 ms Ip = 36798 (56%)

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

Number:99LED821
 Date:2017-11-03 11:10
 Humidity:65.0%
 Remarks:017V038B_4096

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3249$ $y=0.3536$ $u'=0.1971$ $v'=0.4827$
 CCT=5819K(Duv=0.0096) Dominant WL:Ld =527.0nm Purity=4.2%
 Ratio:R=13.4% G=81.9% B=4.7%;;Peak WL:Lp=444.5nm FWHM=23.1nm
 Render Index:Ra=79.7
 R1 =76 R2 =82 R3 =89 R4 =81 R5 =79 R6 =79 R7 =86
 R8 =66 R9 =0 R10=60 R11=81 R12=64 R13=77 R14=94 R15=69

Photo Parameters:

Flux = 1151 lm Eff. : 94.03 lm/W Fe = 3.602 W

Electrical parameters:

V = 229.90 V I = 0.09362 A P = 12.24 W PF = 0.5686

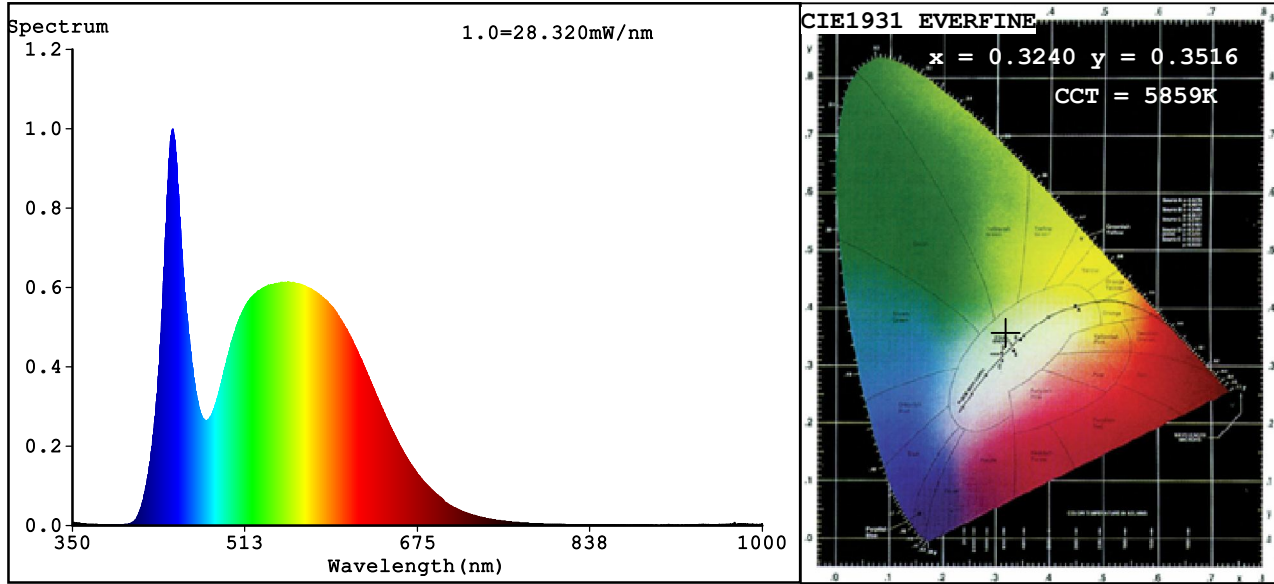
WHITE:OUT

Status: Integral T = 28 ms Ip = 35599 (54%)

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

Number:99LED821
 Date:2017-11-03 11:11
 Humidity:65.0%
 Remarks:017V038B_4096

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3240$ $y=0.3516/u'=0.1972$ $v'=0.4815$

CCT=5859K(Duv=0.0091) Dominant WL:Ld =520.3nm Purity=3.6%

Ratio:R=13.4% G=81.7% B=4.8%;;Peak WL:Lp=444.5nm FWHM=25.2nm

Render Index:Ra=80.5

R1 =77 R2 =83 R3 =90 R4 =82 R5 =79 R6 =80 R7 =87

R8 =67 R9 =0 R10=62 R11=81 R12=65 R13=78 R14=94 R15=70

Photo Parameters:

Flux = 1125 lm Eff. : 93.19 lm/W Fe = 3.540 W

Electrical parameters:

V = 229.91 V I = 0.09224 A P = 12.08 W PF = 0.5694

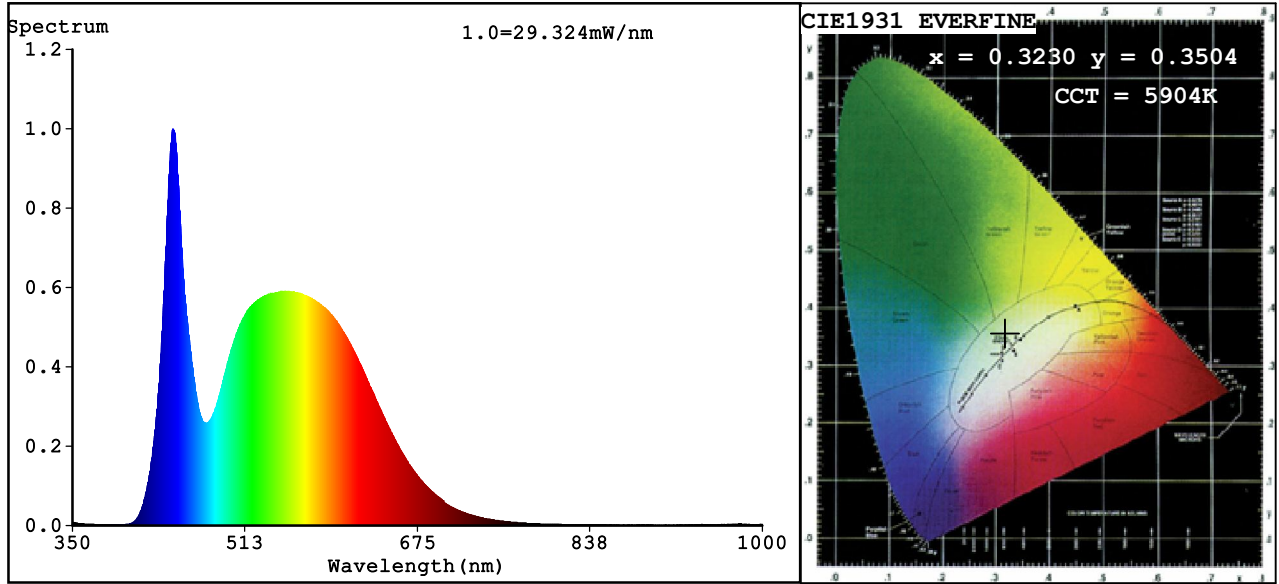
WHITE:OUT

Status: Integral T = 28 ms Ip = 33829 (52%)

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

Number:99LED821
Date:2017-11-03 11:13
Humidity:65.0%
Remarks:017V038B_4096

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3230$ $y=0.3504$ $u'=0.1970$ $v'=0.4808$
 CCT=5904K(Duv=0.0089) Dominant WL:Ld =515.4nm Purity=3.5%
 Ratio:R=13.4% G=81.7% B=4.9%;;Peak WL:Lp=444.5nm FWHM=24.0nm
 Render Index:Ra=80.6
 R1 =77 R2 =83 R3 =90 R4 =82 R5 =80 R6 =80 R7 =87
 R8 =67 R9 =0 R10=63 R11=81 R12=64 R13=78 R14=94 R15=71

Photo Parameters:

Flux = 1121 lm Eff. : 94.06 lm/W Fe = 3.528 W

Electrical parameters:

V = 229.93 V I = 0.09141 A P = 11.92 W PF = 0.5671

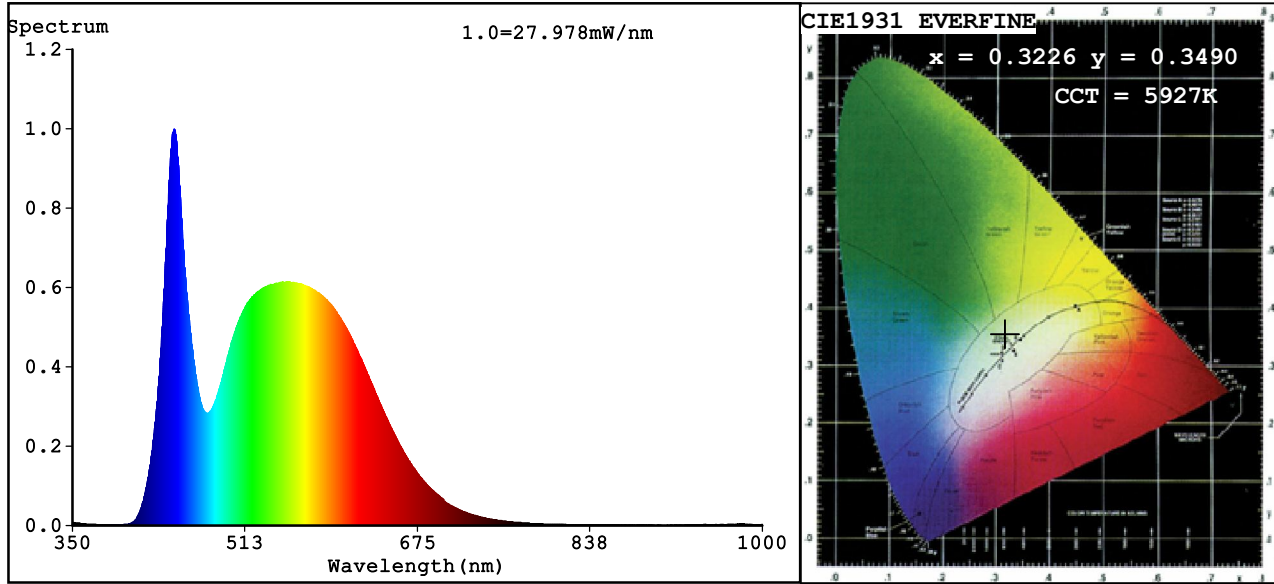
WHITE:OUT

Status: Integral T = 28 ms Ip = 35214 (54%)

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

Number:99LED821
 Date:2017-11-03 11:14
 Humidity:65.0%
 Remarks:017V038B_4096

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3226$ $y=0.3490$ / $u'=0.1972$ $v'=0.4801$
CCT=5927K (Duv=0.0085) Dominant WL:Ld =512.4nm Purity=3.5%
Ratio:R=13.5% G=81.6% B=5.0%; Peak WL:Lp=445.9nm FWHM=26.2nm
Render Index:Ra=81.1
R1 =78 R2 =84 R3 =90 R4 =82 R5 =80 R6 =80 R7 =87
R8 =67 R9 =0 R10=64 R11=82 R12=64 R13=79 R14=95 R15=72

Photo Parameters:

Flux = 1116 lm Eff. : 91.36 lm/W Fe = 3.527 W

Electrical parameters:

V = 229.99 V I = 0.09371 A P = 12.21 W PF = 0.5666

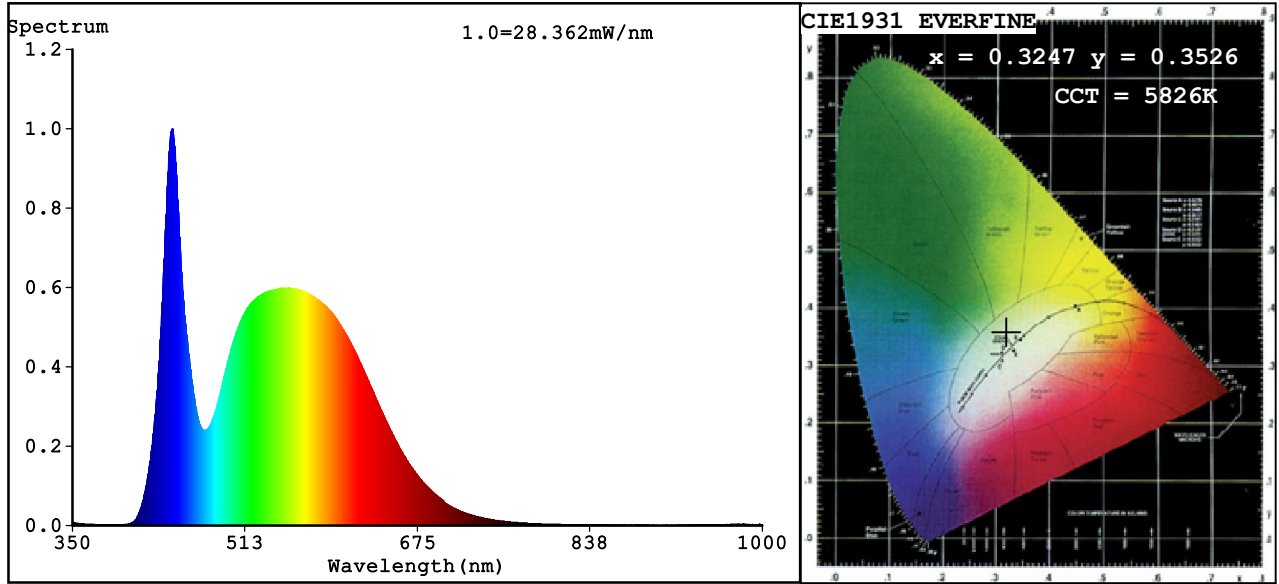
WHITE:OUT

Status: Integral T = 28 ms Ip = 33662 (51%)

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

Number:99LED821
Date:2017-11-03 11:16
Humidity:65.0%
Remarks:017V038B_4096

Spectrum Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3247$ $y=0.3526$ $u'=0.1973$ $v'=0.4822$

CCT=5826K(Duv=0.0093) Dominant WL:Ld =524.7nm Purity=3.9%

Ratio:R=13.4% G=81.9% B=4.7%;;Peak WL:Lp=444.4nm FWHM=23.5nm

Render Index:Ra=79.8

R1 =76	R2 =82	R3 =89	R4 =81	R5 =79	R6 =79	R7 =86	
R8 =66	R9 =0	R10=60	R11=81	R12=64	R13=77	R14=94	R15=70

Photo Parameters:

Flux = 1097 lm Eff. : 92.78 lm/W Fe = 3.437 W

Electrical parameters:

V = 230.01 V I = 0.09099 A P = 11.82 W PF = 0.5648

WHITE:OUT

Status: Integral T = 28 ms Ip = 33899 (52%)

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

Number:99LED821
Date:2017-11-03 11:18
Humidity:65.0%
Remarks:017V038B_4096