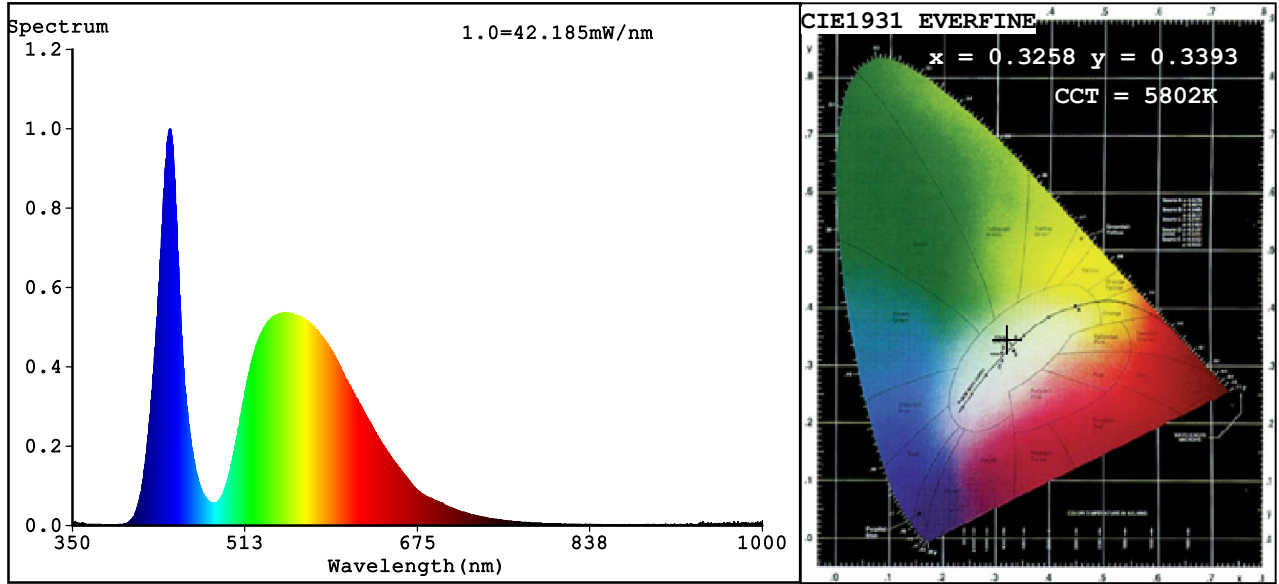


**Spectrum Test Report**



**Color Parameters:**

Chromaticity Coordinate:  $x=0.3258$   $y=0.3393$   $u'=0.2030$   $v'=0.4757$   
 CCT=5802K(Duv=0.0021) Dominant WL:Ld =502.3nm Purity=2.3%  
 Ratio:R=12.6% G=84.8% B=2.6%;;Peak WL:Lp=442.5nm FWHM=23.4nm  
 Render Index:Ra=66.7  
 R1 =67 R2 =69 R3 =70 R4 =69 R5 =68 R6 =60 R7 =74  
 R8 =58 R9 =0 R10=26 R11=69 R12=39 R13=65 R14=83 R15=61

**Photo Parameters:**

Flux = 1313 lm Eff. : 64.64 lm/W Fe = 4.094 W

**Electrical parameters:**

V = 12.080 V I = 1.682 A P = 20.32 W PF = 1.000

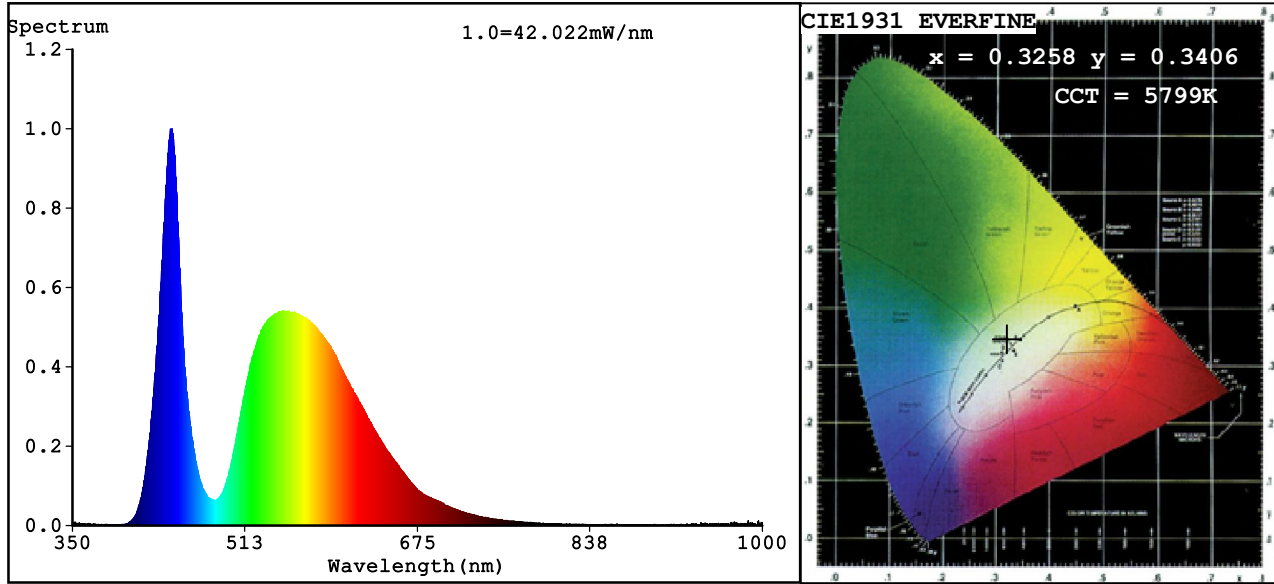
WHITE:ANSI\_5700K

Status: Integral T = 28 ms Ip = 50369 (77%)

Model:LED-3528-120-CW/9.6W  
 Tester:Petya Marinova  
 Temperature:25.3Deg  
 Manufacturer:ELMARK

Number:99XLED307  
 Date:2017-11-27 14:37  
 Humidity:65.0%  
 Remarks:017V047A\_4188

**Spectrum Test Report**



**Color Parameters:**

Chromaticity Coordinate:  $x=0.3258$   $y=0.3406$   $u'=0.2025$   $v'=0.4763$   
 CCT=5799K(Duv=0.0028) Dominant WL:Ld =504.9nm Purity=2.3%  
 Ratio:R=12.6% G=84.7% B=2.7%;; Peak WL:Lp=443.8nm FWHM=22.7nm  
 Render Index:Ra=67.4  
 R1 =67 R2 =70 R3 =71 R4 =70 R5 =68 R6 =61 R7 =75  
 R8 =58 R9 =0 R10=28 R11=69 R12=39 R13=66 R14=83 R15=62

**Photo Parameters:**

Flux = 1321 lm Eff. : 62.80 lm/W Fe = 4.092 W

**Electrical parameters:**

V = 12.080 V I = 1.742 A P = 21.04 W PF = 1.000

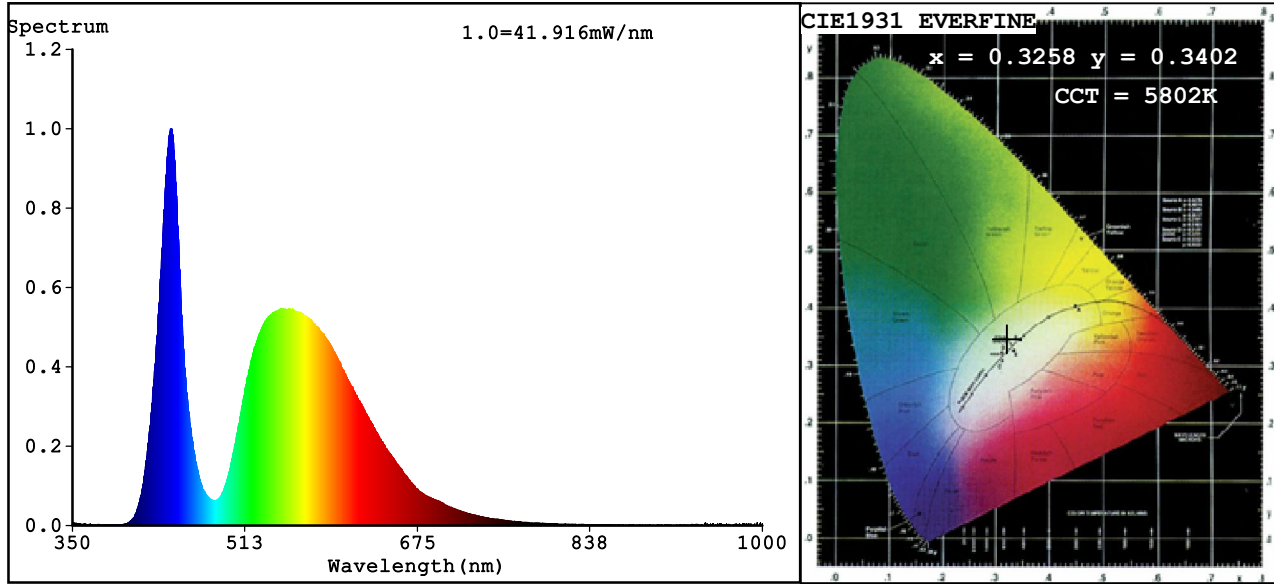
WHITE:ANSI\_5700K

Status: Integral T = 28 ms Ip = 50148 (77%)

Model:LED-3528-120-CW/9.6W  
 Tester:Petya Marinova  
 Temperature:25.3Deg  
 Manufacturer:ELMARK

Number:99XLED307  
 Date:2017-11-27 14:44  
 Humidity:65.0%  
 Remarks:017V047A\_4188

**Spectrum Test Report**



**Color Parameters:**

Chromaticity Coordinate:  $x=0.3258$   $y=0.3402$   $u'=0.2026$   $v'=0.4761$

CCT=5802K(Duv=0.0026) Dominant WL:Ld =504.0nm Purity=2.3%

Ratio:R=12.6% G=84.7% B=2.7%;;Peak WL:Lp=443.2nm FWHM=23.3nm

Render Index:Ra=67.3

R1 =67 R2 =70 R3 =71 R4 =70 R5 =68 R6 =60 R7 =75

R8 =58 R9 =0 R10=27 R11=69 R12=39 R13=65 R14=83 R15=62

**Photo Parameters:**

Flux = 1331 lm Eff. : 62.06 lm/W Fe = 4.120 W

**Electrical parameters:**

V = 12.080 V I = 1.776 A P = 21.45 W PF = 1.000

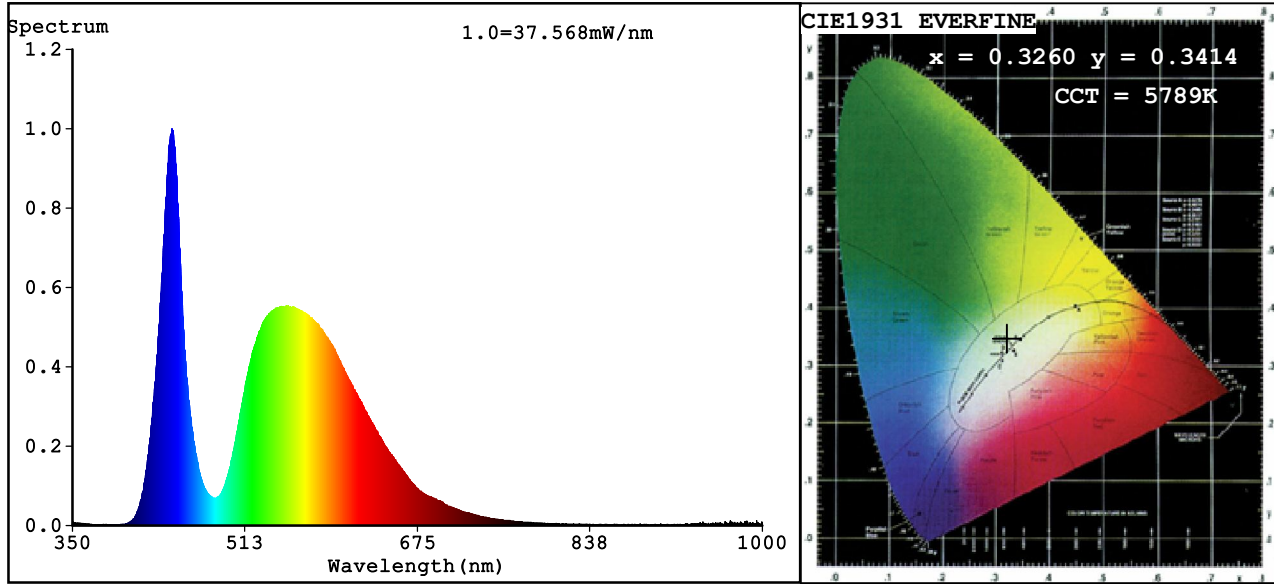
WHITE:ANSI\_5700K

Status: Integral T = 28 ms Ip = 50137 (77%)

Model:LED-3528-120-CW/9.6W  
Tester:Petya Marinova  
Temperature:25.3Deg  
Manufacturer:ELMARK

Number:99XLED307  
Date:2017-11-27 14:54  
Humidity:65.0%  
Remarks:017V047A\_4188

**Spectrum Test Report**



**Color Parameters:**

Chromaticity Coordinate:  $x=0.3260$   $y=0.3414$   $u'=0.2023$   $v'=0.4768$

CCT=5789K(Duv=0.0031) Dominant WL:Ld =506.8nm Purity=2.2%

Ratio:R=12.6% G=84.6% B=2.8%;;Peak WL:Lp=443.8nm FWHM=23.1nm

Render Index:Ra=67.9

R1 =67	R2 =70	R3 =72	R4 =70	R5 =68	R6 =61	R7 =76	
R8 =58	R9 =0	R10=29	R11=69	R12=39	R13=66	R14=84	R15=62

**Photo Parameters:**

Flux = 1210 lm Eff. : 62.54 lm/W Fe = 3.741 W

**Electrical parameters:**

V = 12.080 V I = 1.602 A P = 19.35 W PF = 1.000

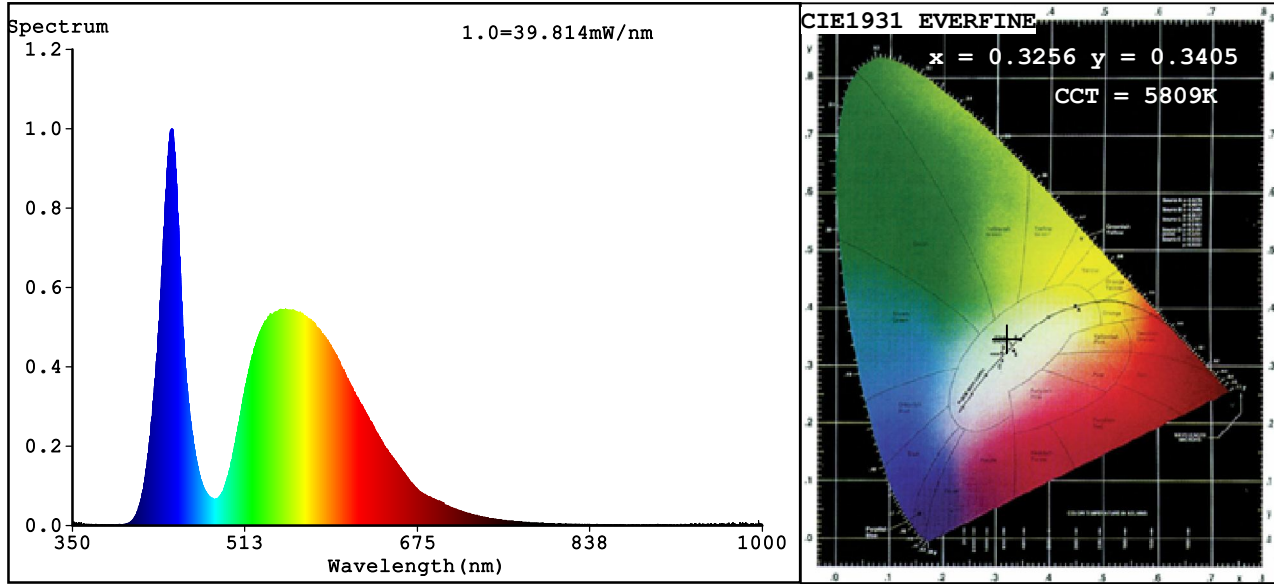
WHITE:ANSI\_5700K

Status: Integral T = 28 ms Ip = 44832 (68%)

Model:LED-3528-120-CW/9.6W  
Tester:Petya Marinova  
Temperature:25.3Deg  
Manufacturer:ELMARK

Number:99XLED307  
Date:2017-11-27 16:02  
Humidity:65.0%  
Remarks:017V047A\_4188

**Spectrum Test Report**



**Color Parameters:**

Chromaticity Coordinate:  $x=0.3256$   $y=0.3405$   $u'=0.2024$   $v'=0.4762$   
 CCT=5809K (Duv=0.0029) Dominant WL:Ld =504.2nm Purity=2.4%  
 Ratio:R=12.6% G=84.6% B=2.8%;; Peak WL:Lp=443.5nm FWHM=22.8nm  
 Render Index:Ra=67.7  
 R1 =67 R2 =70 R3 =71 R4 =70 R5 =68 R6 =61 R7 =75  
 R8 =58 R9 =0 R10=29 R11=69 R12=39 R13=66 R14=84 R15=62

**Photo Parameters:**

Flux = 1264 lm Eff. : 62.74 lm/W Fe = 3.907 W

**Electrical parameters:**

V = 12.080 V I = 1.668 A P = 20.15 W PF = 1.000

WHITE:ANSI\_5700K

Status: Integral T = 28 ms Ip = 47548 (73%)

Model:LED-3528-120-CW/9.6W  
 Tester:Petya Marinova  
 Temperature:25.3Deg  
 Manufacturer:ELMARK

Number:99XLED307  
 Date:2017-11-27 16:18  
 Humidity:65.0%  
 Remarks:017V047A\_4188