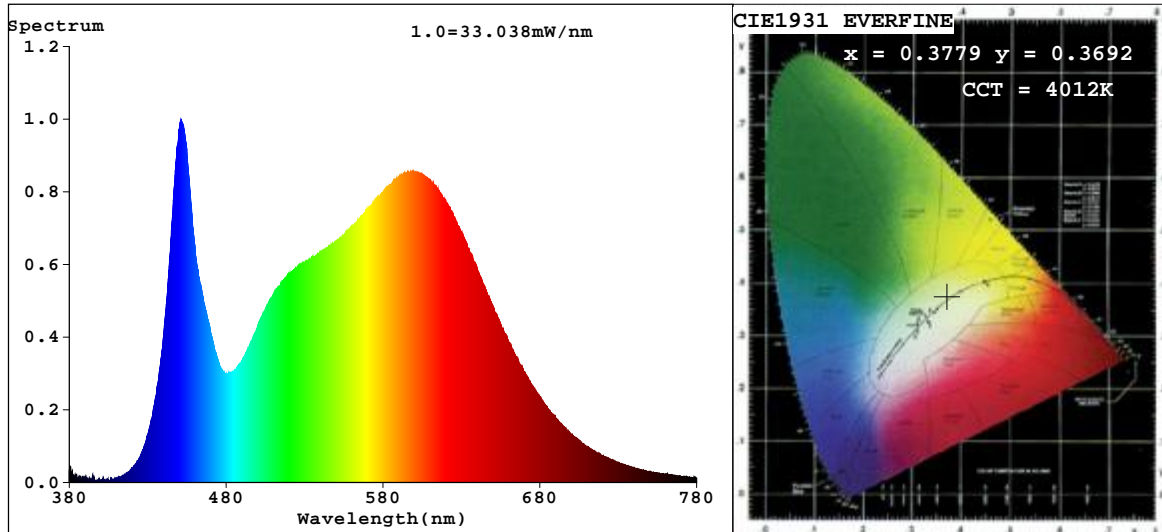


**Spectrum Test Report**



**Color Parameters:**

Chromaticity Coordinate:  $x=0.3779$   $y=0.3692$  /  $u'=0.2265$   $v'=0.4979$   
 CCT=4012K (Duv=-0.0028) Dominant WL:Ld =580.8nm Purity=24.2%  
 Ratio:R=19.1% G=76.8% B=4.0% Peak WL:Lp=451.3nm FWHM=23.8nm  
 Render Index:Ra=87.5  
 R1 =87 R2 =94 R3 =96 R4 =87 R5 =87 R6 =90 R7 =88  
 R8 =71 R9 =29 R10=84 R11=87 R12=69 R13=89 R14=98 R15=82

**Photo Parameters:**

Flux = 1623 lm Eff. : 119.58 lm/W Fe = 5.144 W Scotopic:2847.5 S/P:1.7541  
 Photosynthetic:PPF:23.425umol/m2/s PAR WATT:5005.5mW/m2(400-700nm)

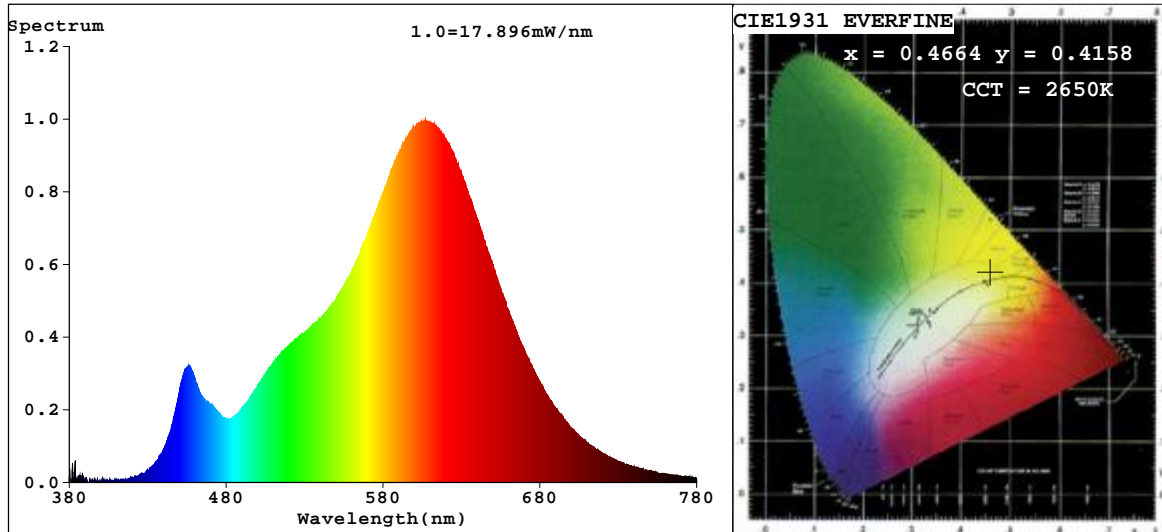
**Electrical parameters:**

V = 23.998 V I = 0.5657 A P = 13.58 W PF = 1.000  
 LEVEL:OUT WHITE:ANSI\_4000K

Status: Integral T = 141 ms Ip = 40208 (61%)

Model: 140D 24V 14W 2700K6000K Number:11  
 Tester: Date:2019-09-05  
 Temperature:26DegDeg Humidity:65%  
 Manufacturer:Unitop Remarks:130R 9794

**Spectrum Test Report**



**Color Parameters:**

Chromaticity Coordinate:  $x=0.4664$   $y=0.4158$  /  $u'=0.2644$   $v'=0.5303$   
 CCT=2650K (Duv=0.0014) Dominant WL:  $L_d = 584.0\text{nm}$  Purity=64.8%  
 Ratio: R=25.6% G=72.1% B=2.3% Peak WL:  $L_p = 607.2\text{nm}$  FWHM=108.9nm  
 Render Index:  $R_a = 82.3$   
 R1 =81 R2 =93 R3 =93 R4 =80 R5 =82 R6 =93 R7 =80  
 R8 =56 R9 =5 R10=85 R11=80 R12=77 R13=84 R14=97 R15=72

**Photo Parameters:**

Flux = 789.6 lm Eff. : 114.73 lm/W  $F_e = 2.415$  W Scotopic:953.69 S/P:1.2078  
 Photosynthetic: PPF:11.418  $\mu\text{mol}/\text{m}^2/\text{s}$  PAR WATT:2335.1  $\text{mW}/\text{m}^2$  (400-700nm)

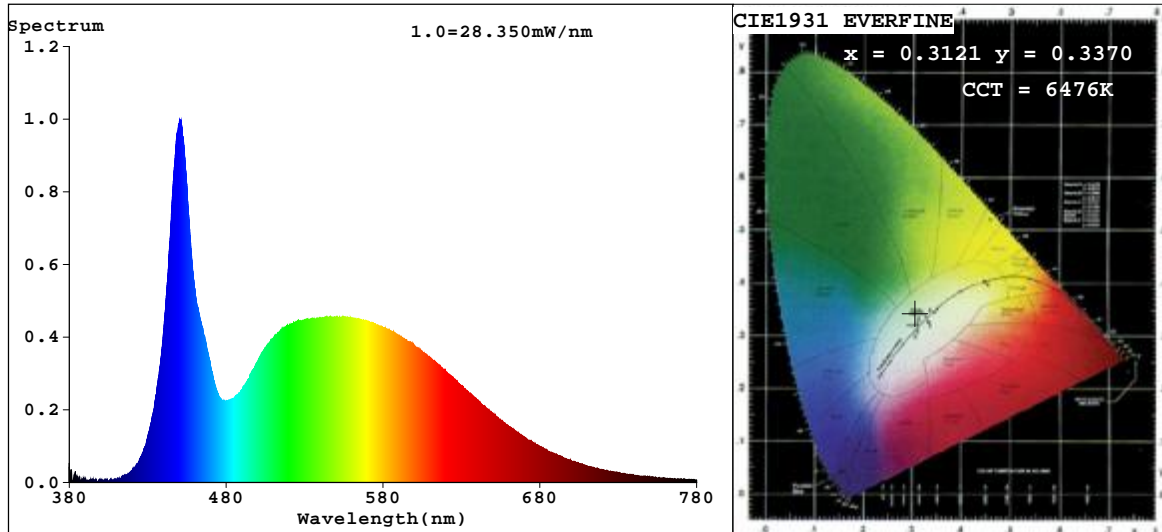
**Electrical parameters:**

V = 23.998 V I = 0.2868 A P = 6.883 W PF = 1.000  
 LEVEL:OUT WHITE:ANSI\_2700K

Status: Integral T = 260 ms  $I_p = 45268$  (69%)

Model:2700K	Number:12
Tester:	Date:2019-09-05
Temperature:26DegDeg	Humidity:65%
Manufacturer:Unitop	Remarks:3.1-3.2V

**Spectrum Test Report**



**Color Parameters:**

Chromaticity Coordinate:  $x=0.3121$   $y=0.3370$  /  $u'=0.1945$   $v'=0.4725$   
 CCT=6476K (Duv=0.0075) Dominant WL:  $L_d = 494.0\text{nm}$  Purity=6.9%  
 Ratio: R=13.0% G=81.5% B=5.5% Peak WL:  $L_p=450.5\text{nm}$  FWHM=19.7nm  
 Render Index: Ra=82.6  
 R1 =80 R2 =86 R3 =91 R4 =82 R5 =81 R6 =81 R7 =89  
 R8 =71 R9 =8 R10=68 R11=81 R12=57 R13=81 R14=95 R15=75

**Photo Parameters:**

Flux = 831.9 lm Eff. : 130.17 lm/W  $F_e = 2.701$  W Scotopic:1869.6 S/P:2.2474  
 Photosynthetic: PPF:11.9  $\mu\text{mol}/\text{m}^2/\text{s}$  PAR WATT:2643.5  $\text{mW}/\text{m}^2$  (400-700nm)

**Electrical parameters:**

V = 23.998 V I = 0.2663 A P = 6.391 W PF = 1.000  
 LEVEL:OUT WHITE:ANSI\_6500K

Status: Integral T = 260 ms  $I_p = 39882$  (61%)

Model:6000K  
 Tester:  
 Temperature:26DegDeg  
 Manufacturer:Unitop

Number:13  
 Date:2019-09-05  
 Humidity:65%  
 Remarks:3.2-3.3V