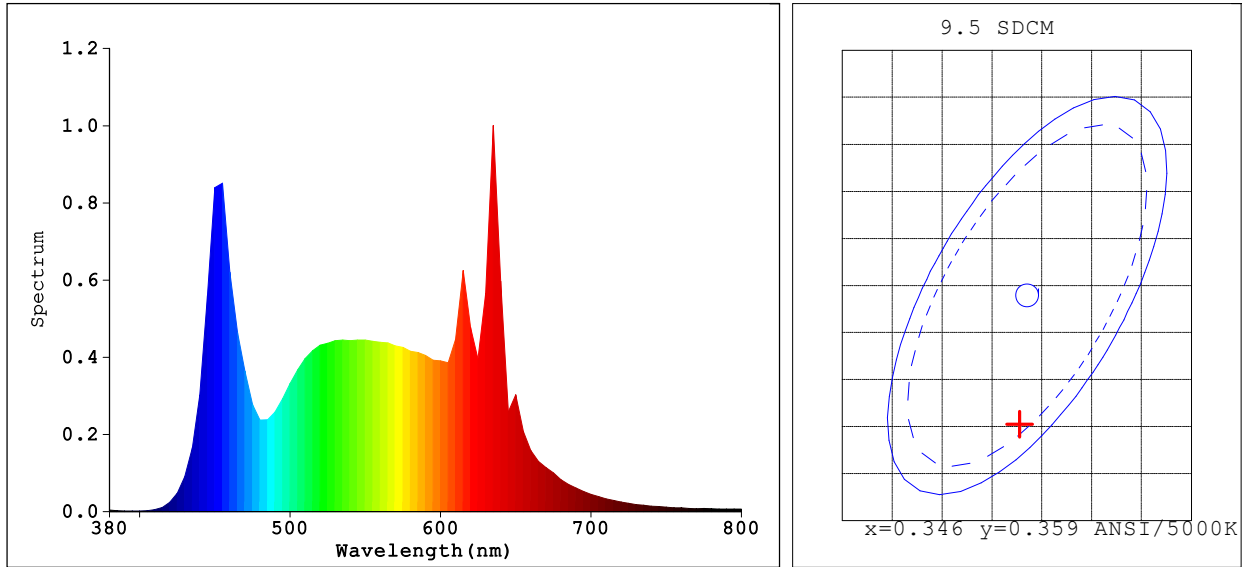


**Light Source Test Report**



**Color Parameters:**

Chromaticity Coordinate:  $x=0.3453$   $y=0.3404$   
 Chromaticity Coordinate:  $u'=0.2160$   $v'=0.4791$  ( $duv=-5.85e-03$ )  
 Tc=4949K Dominant WL:Ld=584.6nm Purity=5.7% Centroid WL:554.0nm  
 Ratio:R=20.3% G=74.9% B=4.8% Peak WL:Lp=635.0nm HWL:13.3nm  
 Render Index:Ra=95.3  
 R1 =94 R2 =98 R3 =92 R4 =96 R5 =96 R6 =94 R7 =99  
 R8 =93 R9 =82 R10=97 R11=93 R12=71 R13=96 R14=94 R15=92

**Photo Parameters:**

Flux: 3335.6 lm Fe: 11.141 W Efficacy:112.2 lm/W

**Electrical Parameters:**

Luminaire: U=120.1V I=0.2492A P=29.74W PF=0.9938

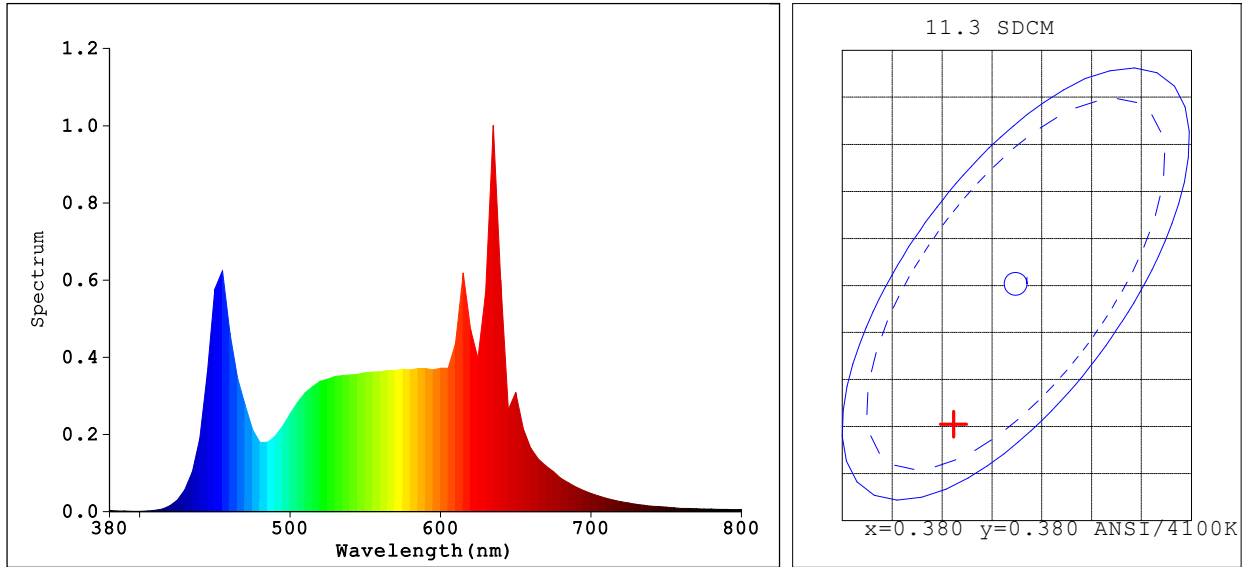
*Instrument Status:*

Scan Range:380.0nm-800.0nm Interval:5.0nm[0]  $I_p=29049$  (G=4,D=56)  
 REF=49570 (R=3)  $\%=-0.131\%$  PMT: 30.6 centigrade [150.0]

Product Type:  
 Number:24  
 Temperature:25.3 deg  
 Test Operator:  
 Software:V2.00.122

Manufacturer:EVERFINE  
 Test Department:EVERFINE  
 Humidity:65.0%  
 Test Date:2023-06-20 14:29:20  
 Instrument:PMS-80\_V1 (SN:11080002)

**Light Source Test Report**



**Color Parameters:**

Chromaticity Coordinate:  $x=0.3746$   $y=0.3539$   
 Chromaticity Coordinate:  $u'=0.2307$   $v'=0.4902$  ( $duv=-9.40e-03$ )  
 Tc=3987K Dominant WL:Ld=586.7nm Purity=18.6% Centroid WL:569.0nm  
 Ratio:R=23.4% G=72.4% B=4.2% Peak WL:Lp=635.0nm HWL:13.5nm  
 Render Index:Ra=93.6  
 R1 =91 R2 =95 R3 =95 R4 =93 R5 =93 R6 =91 R7 =99  
 R8 =92 R9 =79 R10=94 R11=89 R12=78 R13=92 R14=95 R15=89

**Photo Parameters:**

Flux: 3443.3 lm Fe: 11.452 W Efficacy:119.7 lm/W

**Electrical Parameters:**

Luminaire: U=120.1V I=0.2412A P=28.77W PF=0.9934

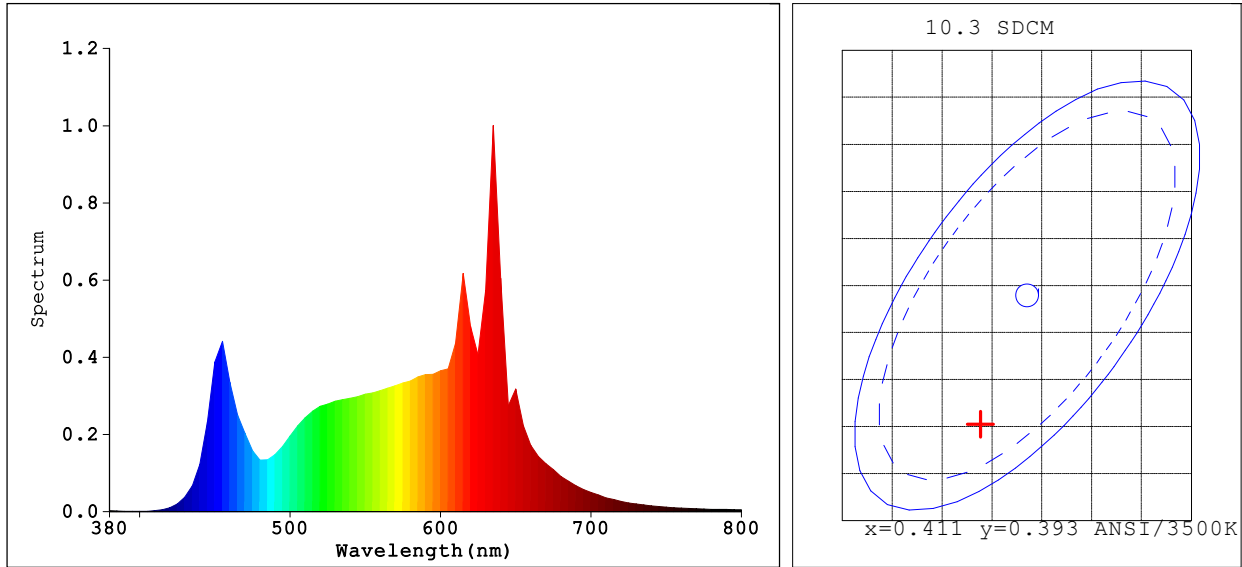
*Instrument Status:*

Scan Range:380.0nm-800.0nm Interval:5.0nm[0]  $I_p=25692$  (G=4,D=56)  
 REF=51406 (R=3)  $\%=-0.058\%$  PMT: 31.1 centigrade [150.0]

Product Type:  
 Number:25  
 Temperature:25.3 deg  
 Test Operator:  
 Software:V2.00.122

Manufacturer:EVERFINE  
 Test Department:EVERFINE  
 Humidity:65.0%  
 Test Date:2023-06-20 14:30:51  
 Instrument:PMS-80\_V1 (SN:11080002)

**Light Source Test Report**



**Color Parameters:**

Chromaticity Coordinate:  $x=0.4070$   $y=0.3695$   
 Chromaticity Coordinate:  $u'=0.2459$   $v'=0.5023$  ( $duv=-9.90e-03$ )  
 Tc=3276K Dominant WL:Ld=586.9nm Purity=33.0% Centroid WL:584.0nm  
 Ratio:R=26.4% G=70.2% B=3.4% Peak WL:Lp=635.0nm HWL:13.8nm  
 Render Index:Ra=93.7  
 R1 =91 R2 =94 R3 =97 R4 =93 R5 =92 R6 =89 R7 =97  
 R8 =96 R9 =89 R10=91 R11=88 R12=81 R13=91 R14=97 R15=91

**Photo Parameters:**

Flux: 3424.9 lm Fe: 11.297 W Efficacy:120.6 lm/W

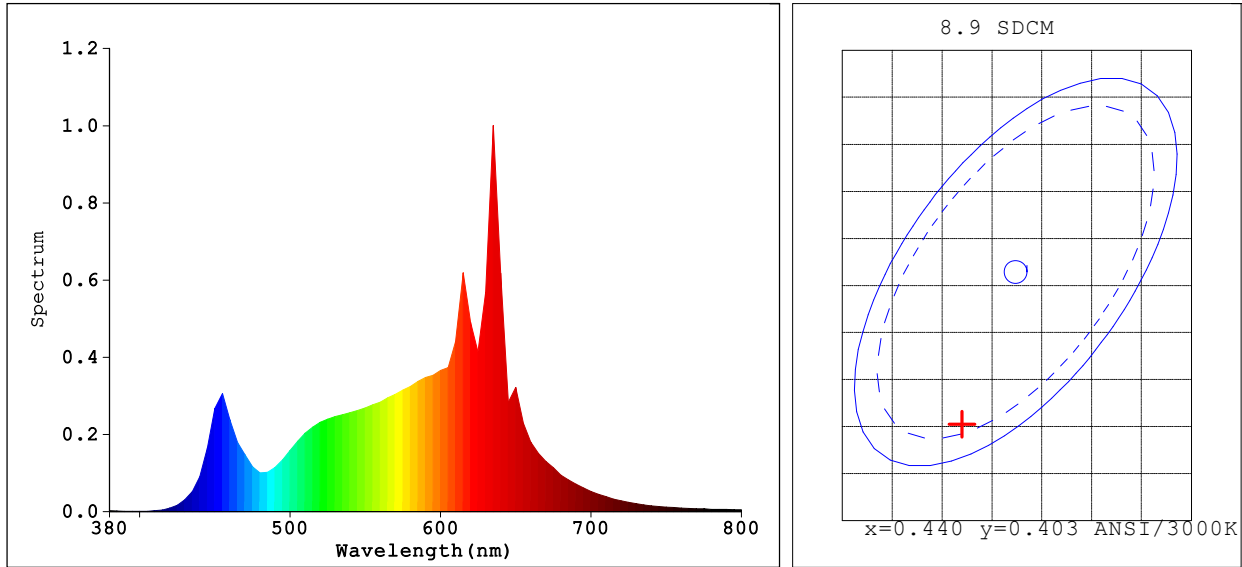
**Electrical Parameters:**

Luminaire: U=120.1V I=0.2382A P=28.41W PF=0.9932

*Instrument Status:*  
 Scan Range:380.0nm-800.0nm Interval:5.0nm[0]  $I_p=20196$  (G=4,D=56)  
 REF=51364 (R=3)  $\%=-0.043\%$  PMT: 31.3 centigrade [150.0]

Product Type:	Manufacturer:EVERFINE
Number:26	Test Department:EVERFINE
Temperature:25.3 deg	Humidity:65.0%
Test Operator:	Test Date:2023-06-20 14:32:23
Software:V2.00.122	Instrument:PMS-80_V1 (SN:11080002)

**Light Source Test Report**



**Color Parameters:**

Chromaticity Coordinate:  $x=0.4354$   $y=0.3833$   
 Chromaticity Coordinate:  $u'=0.2588$   $v'=0.5127$  ( $duv=-8.24e-03$ )  
 Tc=2850K Dominant WL:Ld=586.9nm Purity=45.7% Centroid WL:594.0nm  
 Ratio:R=28.7% G=68.5% B=2.8% Peak WL:Lp=635.0nm HWL:14.0nm  
 Render Index:Ra=94.5  
 R1 =94 R2 =95 R3 =97 R4 =94 R5 =94 R6 =89 R7 =94  
 R8 =97 R9 =95 R10=93 R11=89 R12=84 R13=94 R14=97 R15=96

**Photo Parameters:**

Flux: 3293.4 lm Fe: 10.782 W Efficacy:113.6 lm/W

**Electrical Parameters:**

Luminaire: U=120.1V I=0.2431A P=28.99W PF=0.9934

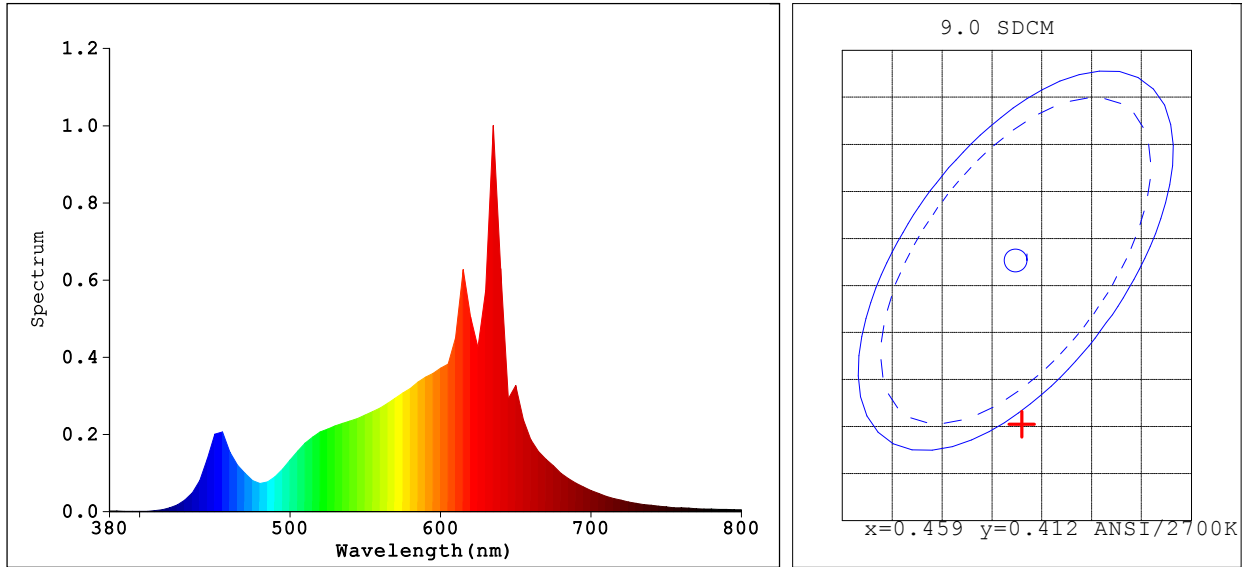
**Instrument Status:**

Scan Range:380.0nm-800.0nm Interval:5.0nm[0]  $I_p=54226$  (G=5,D=59)  
 REF=49574 (R=3)  $\%=-0.048\%$  PMT: 31.3 centigrade [150.0]

Product Type:  
 Number:27  
 Temperature:25.3 deg  
 Test Operator:  
 Software:V2.00.122

Manufacturer:EVERFINE  
 Test Department:EVERFINE  
 Humidity:65.0%  
 Test Date:2023-06-20 14:33:54  
 Instrument:PMS-80\_V1 (SN:11080002)

**Light Source Test Report**



**Color Parameters:**

Chromaticity Coordinate:  $x=0.4595$   $y=0.3954$   
 Chromaticity Coordinate:  $u'=0.2693$   $v'=0.5214$  ( $duv=-5.64e-03$ )  
 Tc=2585K Dominant WL:Ld=586.8nm Purity=56.6% Centroid WL:601.0nm  
 Ratio:R=30.5% G=67.4% B=2.1% Peak WL:Lp=635.0nm HWL:14.4nm  
 Render Index:Ra=95.1  
 R1 =97 R2 =98 R3 =97 R4 =95 R5 =97 R6 =92 R7 =93  
 R8 =92 R9 =83 R10=97 R11=91 R12=89 R13=97 R14=97 R15=98

**Photo Parameters:**

Flux: 3139.2 lm Fe: 10.182 W Efficacy:106.8 lm/W

**Electrical Parameters:**

Luminaire: U=120.1V I=0.2464A P=29.40W PF=0.9936

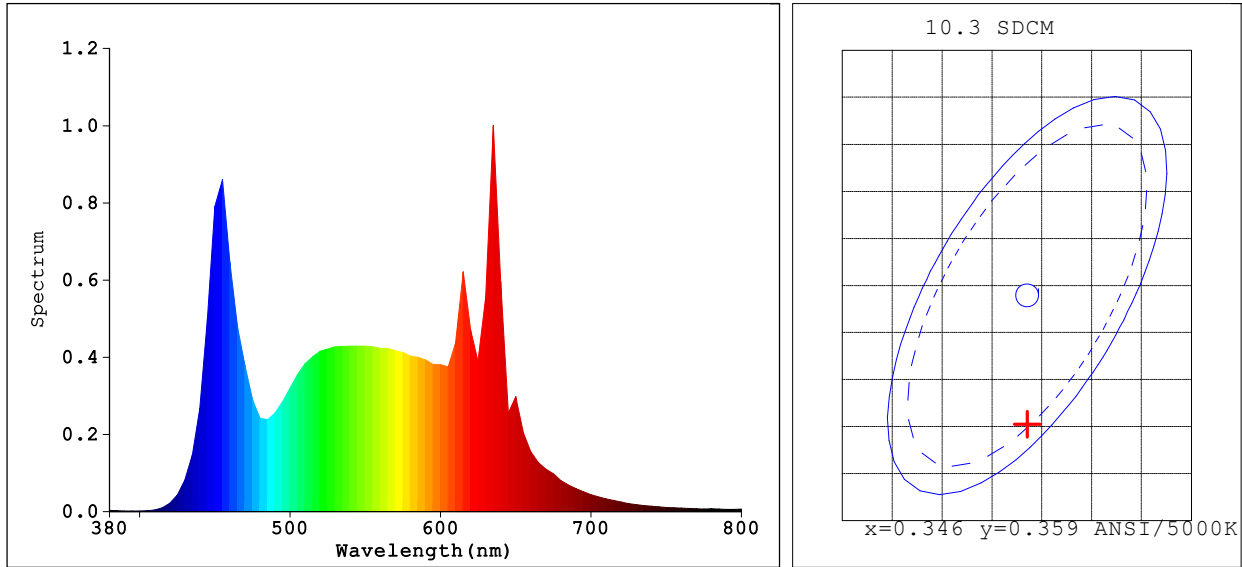
*Instrument Status:*

Scan Range:380.0nm-800.0nm Interval:5.0nm[0]  $I_p=53505$  (G=5,D=59)  
 REF=47387 (R=3)  $\%=-0.042\%$  PMT: 31.6 centigrade [150.0]

Product Type:  
 Number:28  
 Temperature:25.3 deg  
 Test Operator:  
 Software:V2.00.122

Manufacturer:EVERFINE  
 Test Department:EVERFINE  
 Humidity:65.0%  
 Test Date:2023-06-20 14:35:15  
 Instrument:PMS-80\_V1 (SN:11080002)

**Light Source Test Report**



**Color Parameters:**

Chromaticity Coordinate:  $x=0.3460$   $y=0.3395$   
 Chromaticity Coordinate:  $u'=0.2169$   $v'=0.4788$  ( $duv=-6.63e-03$ )  
 Tc=4918K Dominant WL:Ld=587.0nm Purity=5.7% Centroid WL:555.0nm  
 Ratio:R=20.6% G=74.5% B=4.9% Peak WL:Lp=635.0nm HWL:13.1nm  
 Render Index:Ra=94.6  
 R1 =93 R2 =97 R3 =93 R4 =96 R5 =95 R6 =93 R7 =99  
 R8 =91 R9 =78 R10=97 R11=93 R12=71 R13=94 R14=95 R15=90

**Photo Parameters:**

Flux: 2536.2 lm Fe: 8.5114 W Efficacy:117.3 lm/W

**Electrical Parameters:**

Luminaire: U=120.1V I=0.1820A P=21.63W PF=0.9894

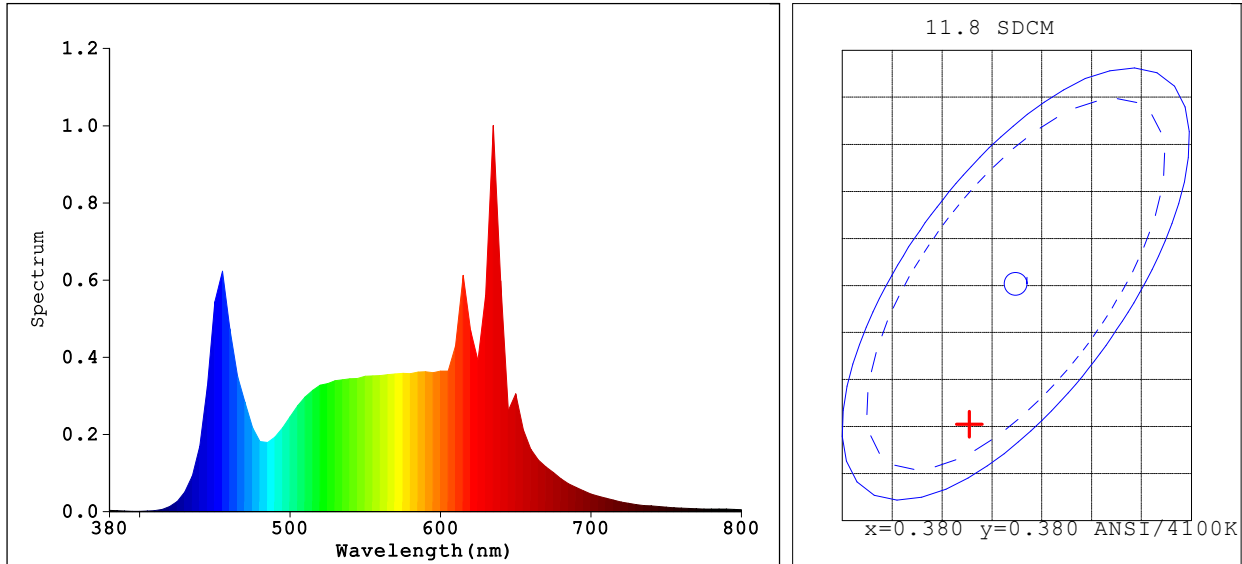
*Instrument Status:*

Scan Range:380.0nm-800.0nm Interval:5.0nm[0]  $I_p=23097$  (G=4,D=56)  
 REF=37729 (R=3)  $\% = 0.019\%$  PMT: 31.6 centigrade [150.0]

Product Type:  
 Number:29  
 Temperature:25.3 deg  
 Test Operator:  
 Software:V2.00.122

Manufacturer:EVERFINE  
 Test Department:EVERFINE  
 Humidity:65.0%  
 Test Date:2023-06-20 14:36:59  
 Instrument:PMS-80\_V1 (SN:11080002)

**Light Source Test Report**



**Color Parameters:**

Chromaticity Coordinate:  $x=0.3760$   $y=0.3537$   
 Chromaticity Coordinate:  $u'=0.2316$   $v'=0.4903$  ( $duv=-9.87e-03$ )  
 Tc=3945K Dominant WL:Ld=587.2nm Purity=19.0% Centroid WL:570.0nm  
 Ratio:R=23.7% G=72.1% B=4.2% Peak WL:Lp=635.0nm HWL:13.2nm  
 Render Index:Ra=93.0  
 R1 =90 R2 =94 R3 =95 R4 =93 R5 =92 R6 =90 R7 =99  
 R8 =91 R9 =77 R10=92 R11=89 R12=77 R13=91 R14=96 R15=88

**Photo Parameters:**

Flux: 2609.4 lm Fe: 8.7086 W Efficacy:123.0 lm/W

**Electrical Parameters:**

Luminaire: U=120.1V I=0.1786A P=21.22W PF=0.9890

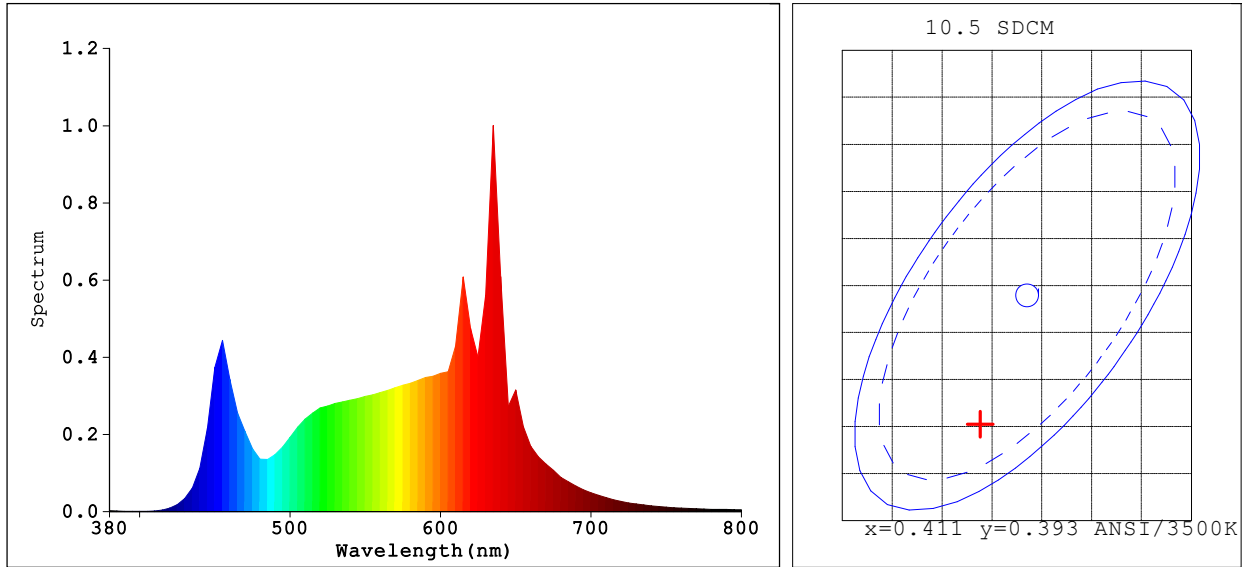
**Instrument Status:**

Scan Range:380.0nm-800.0nm Interval:5.0nm[0]  $I_p=19954$  (G=4,D=55)  
 REF=38996 (R=3)  $\% = 0.026\%$  PMT: 31.5 centigrade [150.0]

Product Type:  
 Number:30  
 Temperature:25.3 deg  
 Test Operator:  
 Software:V2.00.122

Manufacturer:EVERFINE  
 Test Department:EVERFINE  
 Humidity:65.0%  
 Test Date:2023-06-20 14:38:24  
 Instrument:PMS-80\_V1 (SN:11080002)

**Light Source Test Report**



**Color Parameters:**

Chromaticity Coordinate:  $x=0.4069$   $y=0.3690$   
 Chromaticity Coordinate:  $u'=0.2461$   $v'=0.5021$  ( $duv=-1.01e-02$ )  
 Tc=3273K Dominant WL:Ld=587.0nm Purity=32.9% Centroid WL:584.0nm  
 Ratio:R=26.5% G=70.0% B=3.5% Peak WL:Lp=635.0nm HWL:13.5nm  
 Render Index:Ra=93.3  
 R1 =91 R2 =94 R3 =97 R4 =93 R5 =91 R6 =88 R7 =97  
 R8 =95 R9 =87 R10=90 R11=88 R12=80 R13=91 R14=97 R15=91

**Photo Parameters:**

Flux: 2605.2 lm Fe: 8.6216 W Efficacy:123.9 lm/W

**Electrical Parameters:**

Luminaire: U=120.1V I=0.1771A P=21.03W PF=0.9888

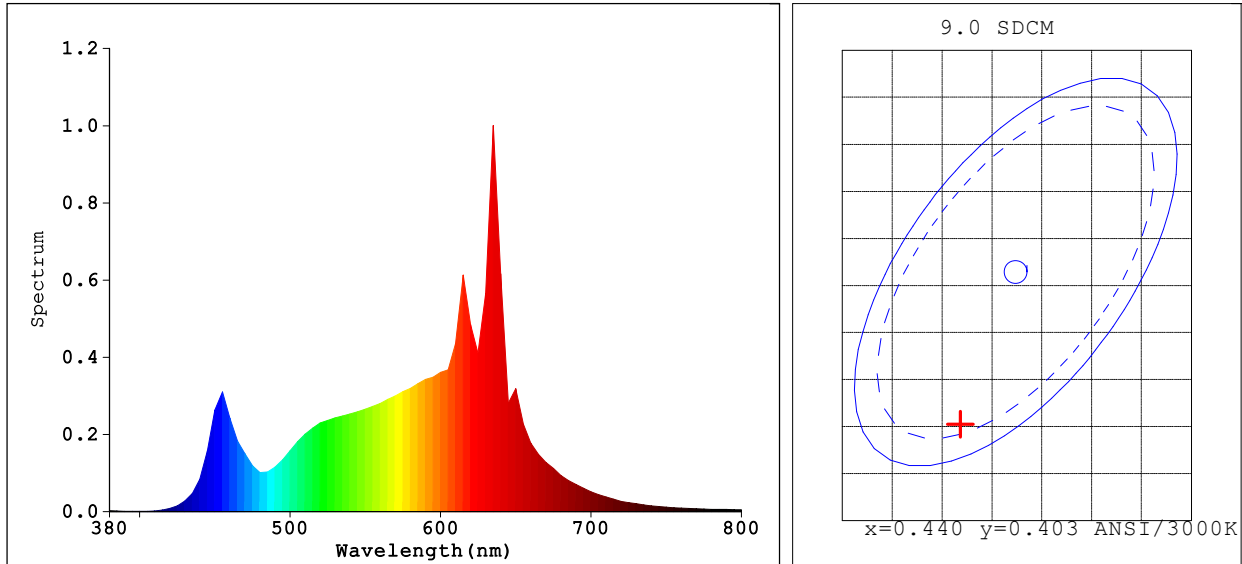
*Instrument Status:*

Scan Range:380.0nm-800.0nm Interval:5.0nm[0]  $I_p=52728$  (G=5,D=59)  
 REF=39102 (R=3)  $\%=-0.015\%$  PMT: 31.5 centigrade [150.0]

Product Type:  
 Number:31  
 Temperature:25.3 deg  
 Test Operator:  
 Software:V2.00.122

Manufacturer:EVERFINE  
 Test Department:EVERFINE  
 Humidity:65.0%  
 Test Date:2023-06-20 14:39:52  
 Instrument:PMS-80\_V1 (SN:11080002)

**Light Source Test Report**



**Color Parameters:**

Chromaticity Coordinate:  $x=0.4352$   $y=0.3830$   
 Chromaticity Coordinate:  $u'=0.2588$   $v'=0.5125$  ( $duv=-8.34e-03$ )  
 Tc=2850K Dominant WL:Ld=587.0nm Purity=45.6% Centroid WL:594.0nm  
 Ratio:R=28.8% G=68.4% B=2.8% Peak WL:Lp=635.0nm HWL:13.8nm  
 Render Index:Ra=94.3  
 R1 =93 R2 =95 R3 =98 R4 =94 R5 =93 R6 =89 R7 =94  
 R8 =98 R9 =96 R10=92 R11=89 R12=83 R13=93 R14=97 R15=95

**Photo Parameters:**

Flux: 2534.2 lm Fe: 8.3082 W Efficacy:118.2 lm/W

**Electrical Parameters:**

Luminaire: U=120.1V I=0.1804A P=21.44W PF=0.9893

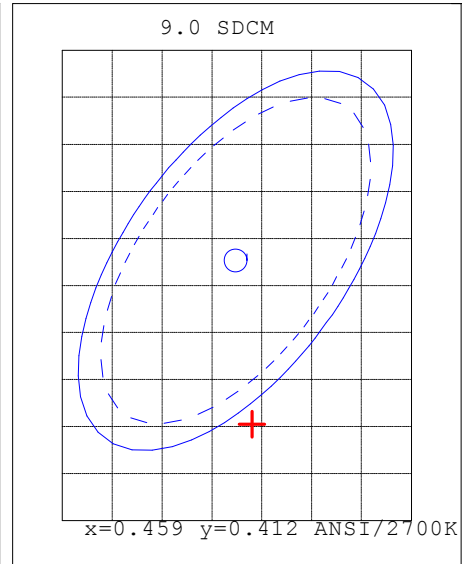
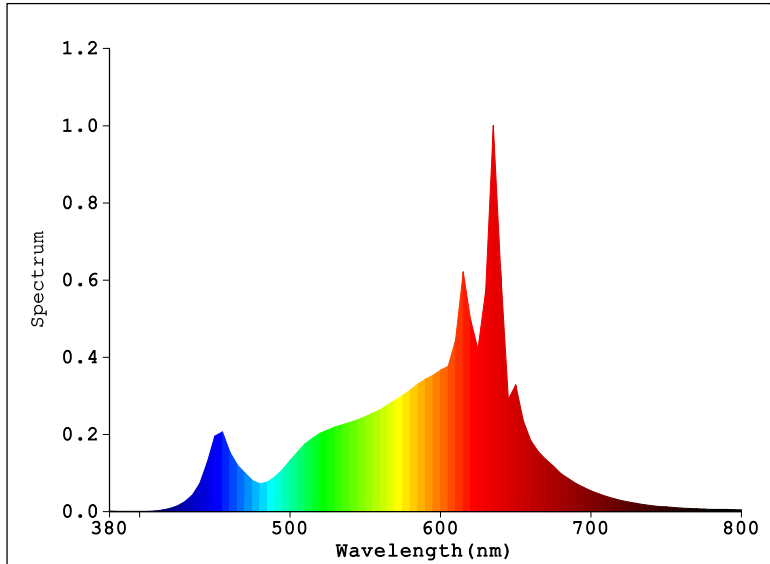
*Instrument Status:*

Scan Range:380.0nm-800.0nm Interval:5.0nm[0]  $I_p=42181$  (G=5,D=59)  
 REF=38173 (R=3)  $\%=-0.024\%$  PMT: 31.6 centigrade [150.0]

Product Type:  
 Number:32  
 Temperature:25.3 deg  
 Test Operator:  
 Software:V2.00.122

Manufacturer:EVERFINE  
 Test Department:EVERFINE  
 Humidity:65.0%  
 Test Date:2023-06-20 14:41:15  
 Instrument:PMS-80\_V1 (SN:11080002)

**Light Source Test Report**



**Color Parameters:**

Chromaticity Coordinate:  $x=0.4604$   $y=0.3960$   
 Chromaticity Coordinate:  $u'=0.2696$   $v'=0.5217$  ( $duv=-5.47e-03$ )  
 Tc=2577K Dominant WL:Ld=586.8nm Purity=57.1% Centroid WL:602.0nm  
 Ratio:R=30.6% G=67.3% B=2.1% Peak WL:Lp=635.0nm HWL:14.2nm  
 Render Index:Ra=95.0  
 R1 =97 R2 =97 R3 =97 R4 =95 R5 =97 R6 =92 R7 =93  
 R8 =92 R9 =84 R10=97 R11=91 R12=89 R13=96 R14=97 R15=99

**Photo Parameters:**

Flux: 2441.5 lm Fe: 7.9259 W Efficacy:112.6 lm/W

**Electrical Parameters:**

Luminaire: U=120.1V I=0.1824A P=21.67W PF=0.9894

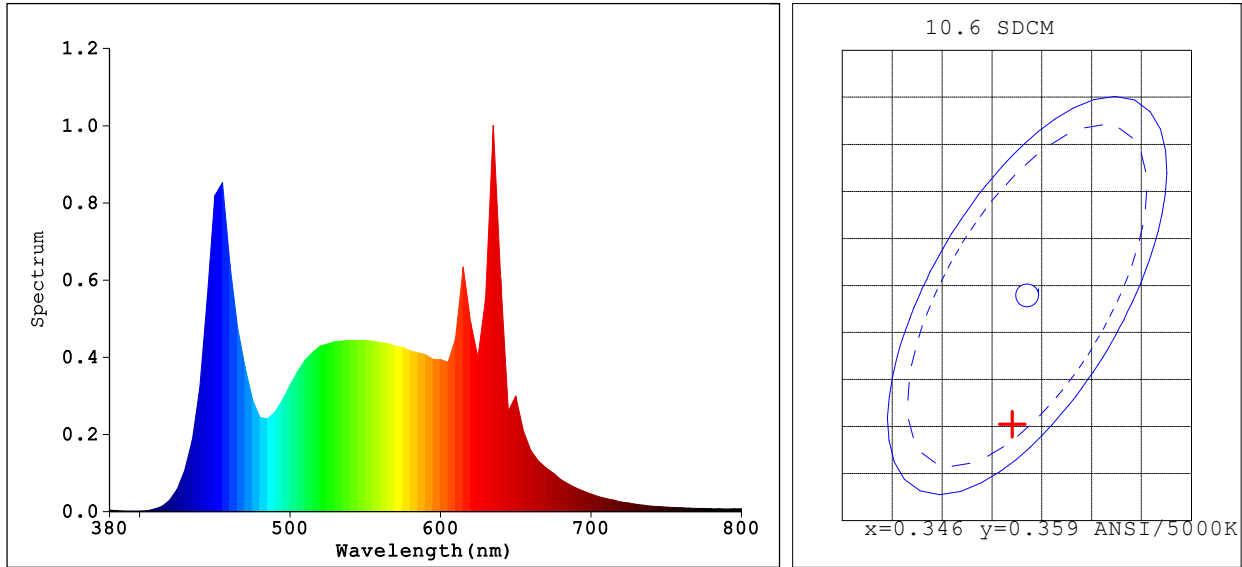
**Instrument Status:**

Scan Range:380.0nm-800.0nm Interval:5.0nm[0]  $I_p=42108$  (G=5,D=59)  
 REF=36883 (R=3)  $\%=-0.014\%$  PMT: 31.8 centigrade [150.0]

Product Type:  
 Number:33  
 Temperature:25.3 deg  
 Test Operator:  
 Software:V2.00.122

Manufacturer:EVERFINE  
 Test Department:EVERFINE  
 Humidity:65.0%  
 Test Date:2023-06-20 14:42:38  
 Instrument:PMS-80\_V1 (SN:11080002)

**Light Source Test Report**



**Color Parameters:**

Chromaticity Coordinate:  $x=0.3447$   $y=0.3379$   
 Chromaticity Coordinate:  $u'=0.2166$   $v'=0.4777$  ( $duv=-6.94e-03$ )  
 Tc=4965K Dominant WL:Ld=589.3nm Purity=4.8% Centroid WL:554.0nm  
 Ratio:R=20.5% G=74.7% B=4.9% Peak WL:Lp=635.0nm HWL:13.3nm  
 Render Index:Ra=94.9  
 R1 =94 R2 =98 R3 =92 R4 =96 R5 =96 R6 =93 R7 =99  
 R8 =92 R9 =80 R10=97 R11=93 R12=72 R13=95 R14=94 R15=91

**Photo Parameters:**

Flux: 3909.5 lm Fe: 13.142 W Efficacy:105.1 lm/W

**Electrical Parameters:**

Luminaire: U=120.0V I=0.3112A P=37.20W PF=0.9958

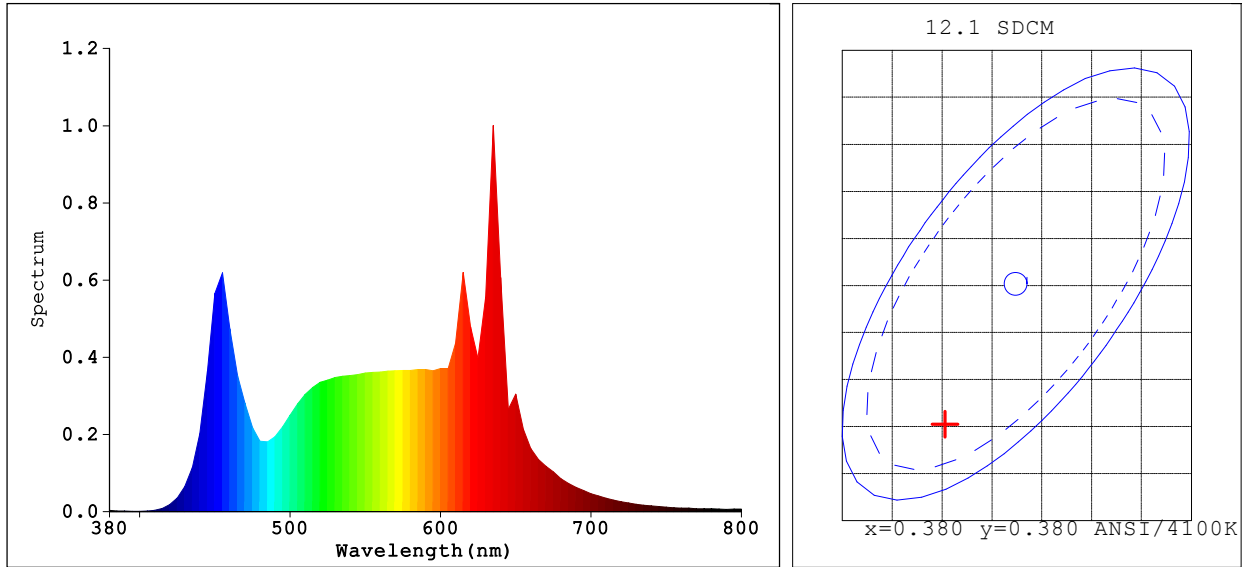
*Instrument Status:*

Scan Range:380.0nm-800.0nm Interval:5.0nm[0]  $I_p=34154$  (G=4,D=55)  
 REF=58087(R=3)  $\%=-0.095\%$  PMT: 31.3 centigrade [150.0]

Product Type:  
 Number:34  
 Temperature:25.3 deg  
 Test Operator:  
 Software:V2.00.122

Manufacturer:EVERFINE  
 Test Department:EVERFINE  
 Humidity:65.0%  
 Test Date:2023-06-20 14:44:49  
 Instrument:PMS-80\_V1 (SN:11080002)

**Light Source Test Report**



**Color Parameters:**

Chromaticity Coordinate:  $x=0.3739$   $y=0.3520$   
 Chromaticity Coordinate:  $u'=0.2309$   $v'=0.4892$  ( $duv=-1.01e-02$ )  
 Tc=3995K Dominant WL:Ld=587.7nm Purity=17.8% Centroid WL:569.0nm  
 Ratio:R=23.5% G=72.3% B=4.2% Peak WL:Lp=635.0nm HWL:13.3nm  
 Render Index:Ra=93.3  
 R1 =90 R2 =95 R3 =95 R4 =93 R5 =92 R6 =91 R7 =99  
 R8 =91 R9 =78 R10=93 R11=89 R12=78 R13=91 R14=95 R15=88

**Photo Parameters:**

Flux: 4061.3 lm Fe: 13.567 W Efficacy:112.9 lm/W

**Electrical Parameters:**

Luminaire: U=120.0V I=0.3010A P=35.97W PF=0.9955

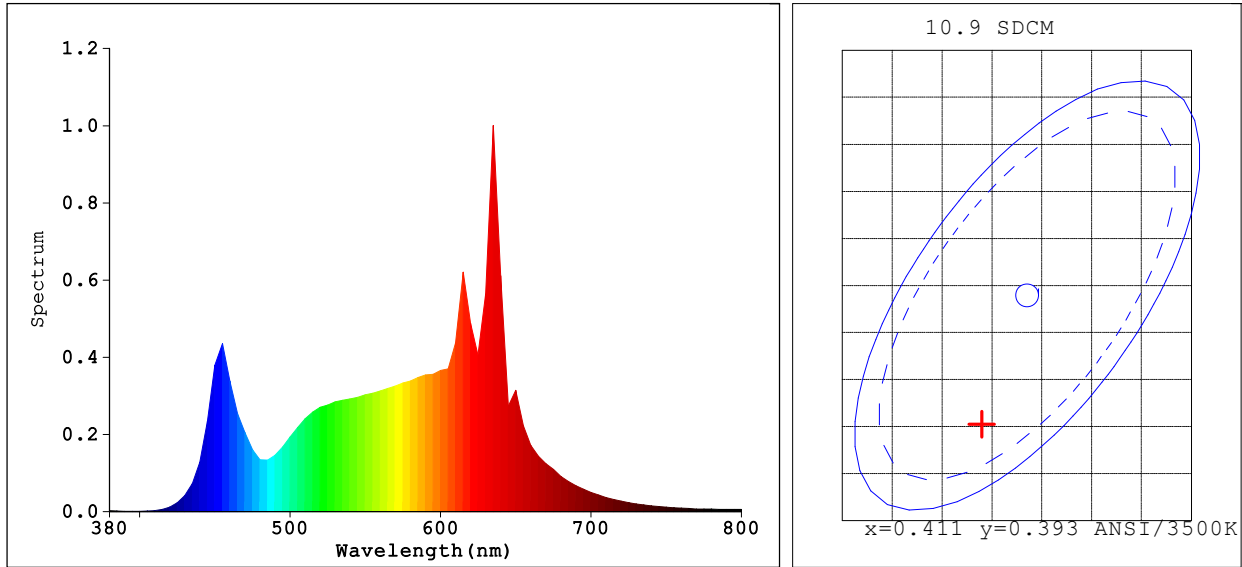
*Instrument Status:*

Scan Range:380.0nm-800.0nm Interval:5.0nm[0]  $I_p=30457$  (G=4,D=55)  
 REF=6175 (R=2)  $\%=-0.148\%$  PMT: 31.4 centigrade [150.0]

Product Type:  
 Number:35  
 Temperature:25.3 deg  
 Test Operator:  
 Software:V2.00.122

Manufacturer:EVERFINE  
 Test Department:EVERFINE  
 Humidity:65.0%  
 Test Date:2023-06-20 14:46:19  
 Instrument:PMS-80\_V1 (SN:11080002)

**Light Source Test Report**



**Color Parameters:**

Chromaticity Coordinate:  $x=0.4071$   $y=0.3683$   
 Chromaticity Coordinate:  $u'=0.2465$   $v'=0.5018$  ( $duv=-1.05e-02$ )  
 Tc=3263K Dominant WL:Ld=587.3nm Purity=32.7% Centroid WL:584.0nm  
 Ratio:R=26.5% G=70.0% B=3.4% Peak WL:Lp=635.0nm HWL:13.7nm  
 Render Index:Ra=93.5  
 R1 =91 R2 =94 R3 =97 R4 =93 R5 =92 R6 =89 R7 =96  
 R8 =96 R9 =89 R10=91 R11=88 R12=81 R13=91 R14=97 R15=91

**Photo Parameters:**

Flux: 4042.6 lm Fe: 13.373 W Efficacy:114.5 lm/W

**Electrical Parameters:**

Luminaire: U=120.0V I=0.2955A P=35.30W PF=0.9953

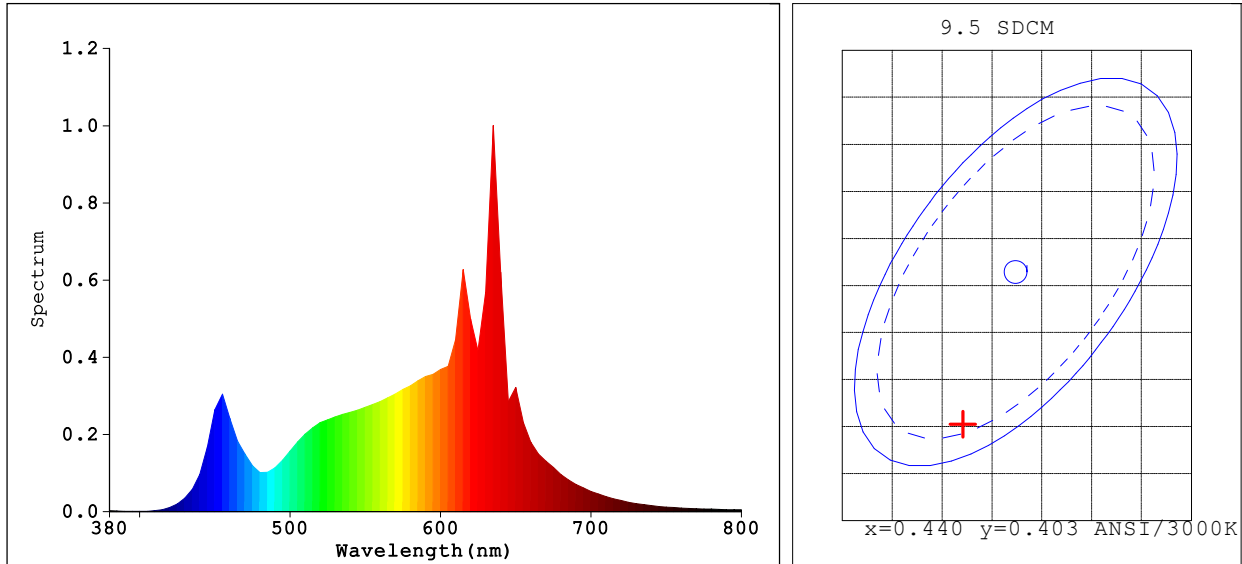
*Instrument Status:*

Scan Range:380.0nm-800.0nm Interval:5.0nm[0]  $I_p=23846$  (G=4,D=56)  
 REF=6175 (R=2)  $\%=-0.099\%$  PMT: 31.3 centigrade [150.0]

Product Type:  
 Number:36  
 Temperature:25.3 deg  
 Test Operator:  
 Software:V2.00.122

Manufacturer:EVERFINE  
 Test Department:EVERFINE  
 Humidity:65.0%  
 Test Date:2023-06-20 14:48:14  
 Instrument:PMS-80\_V1 (SN:11080002)

**Light Source Test Report**



**Color Parameters:**

Chromaticity Coordinate:  $x=0.4354$   $y=0.3822$   
 Chromaticity Coordinate:  $u'=0.2594$   $v'=0.5122$  ( $duv=-8.70e-03$ )  
 Tc=2839K Dominant WL:Ld=587.2nm Purity=45.4% Centroid WL:594.0nm  
 Ratio:R=28.9% G=68.4% B=2.7% Peak WL:Lp=635.0nm HWL:14.0nm  
 Render Index:Ra=94.3  
 R1 =94 R2 =95 R3 =97 R4 =94 R5 =94 R6 =89 R7 =94  
 R8 =97 R9 =95 R10=93 R11=90 R12=84 R13=93 R14=97 R15=96

**Photo Parameters:**

Flux: 3898.4 lm Fe: 12.780 W Efficacy:107.6 lm/W

**Electrical Parameters:**

Luminaire: U=120.0V I=0.3033A P=36.24W PF=0.9955

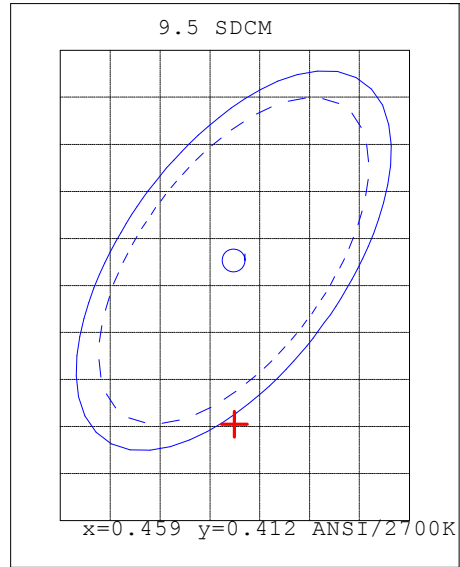
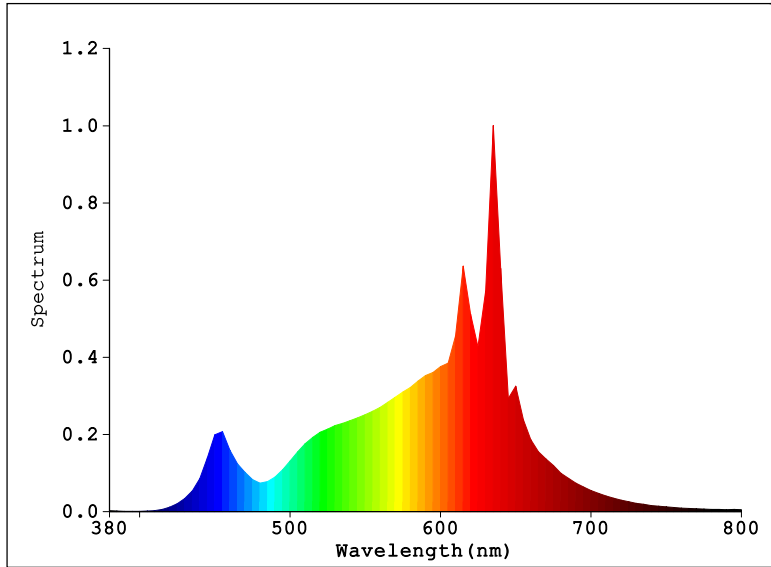
*Instrument Status:*

Scan Range:380.0nm-800.0nm Interval:5.0nm[0]  $I_p=19147$  (G=4,D=56)  
 REF=58668 (R=3)  $\% = 0.022\%$  PMT: 31.4 centigrade [150.0]

Product Type:  
 Number:37  
 Temperature:25.3 deg  
 Test Operator:  
 Software:V2.00.122

Manufacturer:EVERFINE  
 Test Department:EVERFINE  
 Humidity:65.0%  
 Test Date:2023-06-20 14:49:49  
 Instrument:PMS-80\_V1 (SN:11080002)

**Light Source Test Report**



**Color Parameters:**

Chromaticity Coordinate:  $x=0.4591$   $y=0.3940$   
 Chromaticity Coordinate:  $u'=0.2696$   $v'=0.5207$  ( $duv=-6.13e-03$ )  
 Tc=2580K Dominant WL:Ld=587.1nm Purity=56.0% Centroid WL:601.0nm  
 Ratio:R=30.6% G=67.3% B=2.1% Peak WL:Lp=635.0nm HWL:14.4nm  
 Render Index:Ra=95.0  
 R1 =98 R2 =97 R3 =97 R4 =95 R5 =97 R6 =92 R7 =92  
 R8 =91 R9 =82 R10=97 R11=91 R12=89 R13=97 R14=97 R15=98

**Photo Parameters:**

Flux: 3685.5 lm Fe: 11.966 W Efficacy:100.1 lm/W

**Electrical Parameters:**

Luminaire: U=120.0V I=0.3082A P=36.83W PF=0.9956

**Instrument Status:**

Scan Range:380.0nm-800.0nm Interval:5.0nm[0]  $I_p=18750$  (G=4,D=56)  
 REF=55617(R=3)  $\%=-0.050\%$  PMT: 31.4 centigrade [150.0]

Product Type:  
 Number:38  
 Temperature:25.3 deg  
 Test Operator:  
 Software:V2.00.122

Manufacturer:EVERFINE  
 Test Department:EVERFINE  
 Humidity:65.0%  
 Test Date:2023-06-20 14:51:19  
 Instrument:PMS-80\_V1 (SN:11080002)