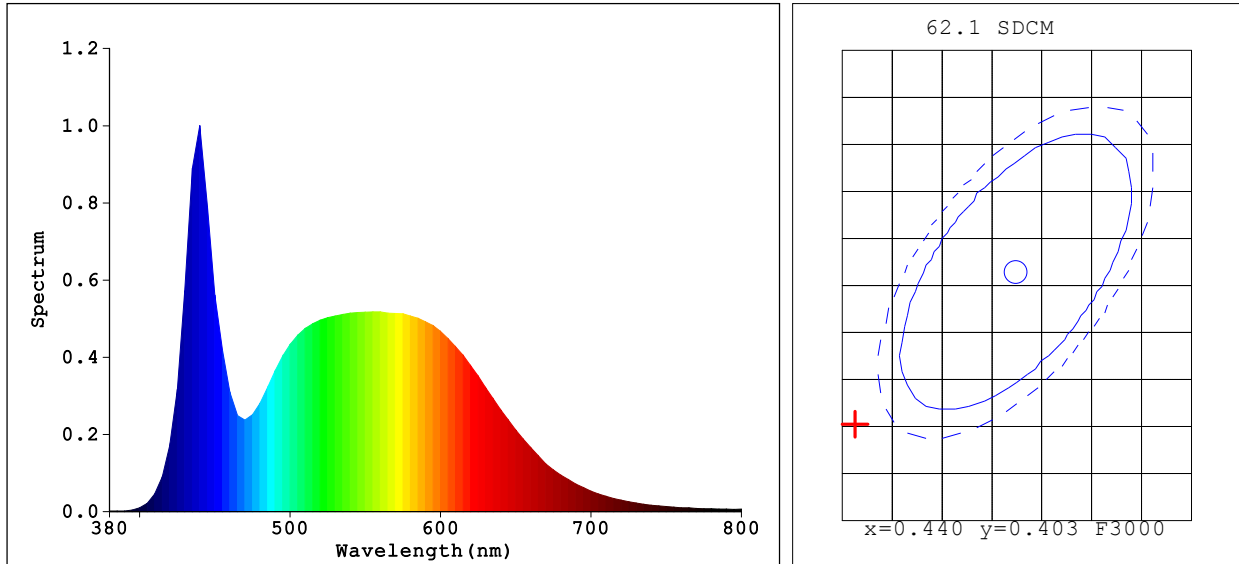


Light Source Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3181$ $y=0.3368$
 Chromaticity Coordinate: $u'=0.1986$ $v'=0.4732$ ($duv=4.55e-03$)
 Tc=6180K Dominant WL:Ld=494.7nm Purity=5.0% Centroid WL:538.0nm
 Ratio:R=14.9% G=80.4% B=4.7% Peak WL:Lp=440.0nm HWL:23.5nm
 Render Index:Ra=82.2
 R1 =81 R2 =84 R3 =89 R4 =84 R5 =83 R6 =82 R7 =85
 R8 =70 R9 =5 R10=64 R11=86 R12=74 R13=81 R14=94 R15=74

Photo Parameters:

Flux: 5449.2 lm Fe: 17.894 W Efficacy:103.4 lm/W

Electrical Parameters:

Luminaire: U=219.3V I=0.2462A P=52.70W PF=0.9761

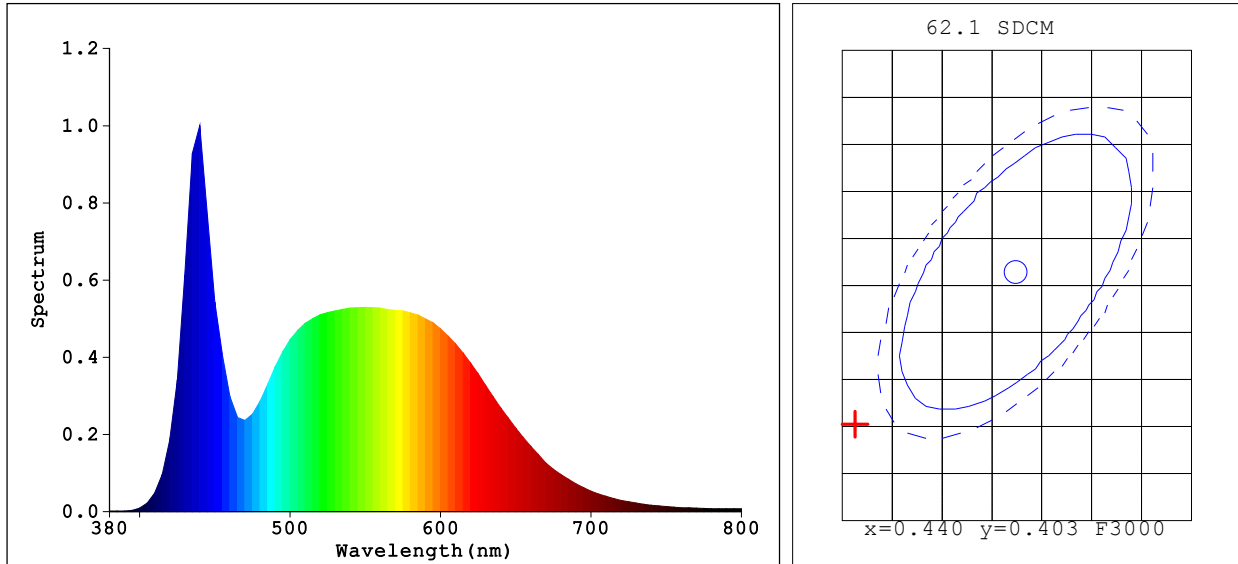
Instrument Status:

Scan Range:380.0nm-800.0nm Interval:5.0nm[0] $I_p=17903$ (G=3,D=55)
 REF=26677 (R=3) $\% = 0.298\%$ PMT: 31.9 centigrade [150.0]

Product Type:UF9AL-50
 Number:33
 Temperature:25.3 deg
 Test Operator:DAMIN
 Software:V2.00.125

Manufacturer:
 Test Department:
 Humidity:65.0%
 Test Date:2020-09-30 10:27:58
 Instrument:PMS-80_V1 (SN:11070007)

Light Source Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3185$ $y=0.3390$
 Chromaticity Coordinate: $u'=0.1981$ $v'=0.4744$ ($duv=5.43e-03$)
 Tc=6148K Dominant WL:Ld=496.6nm Purity=4.7% Centroid WL:538.0nm
 Ratio:R=14.8% G=80.5% B=4.7% Peak WL:Lp=440.0nm HWL:23.6nm
 Render Index:Ra=81.9
 R1 =80 R2 =84 R3 =89 R4 =83 R5 =83 R6 =82 R7 =85
 R8 =70 R9 =4 R10=64 R11=86 R12=74 R13=80 R14=94 R15=73

Photo Parameters:

Flux: 10694 lm Fe: 35.022 W Efficacy:98.29 lm/W

Electrical Parameters:

Luminaire: U=219.1V I=0.5080A P=108.8W PF=0.9777

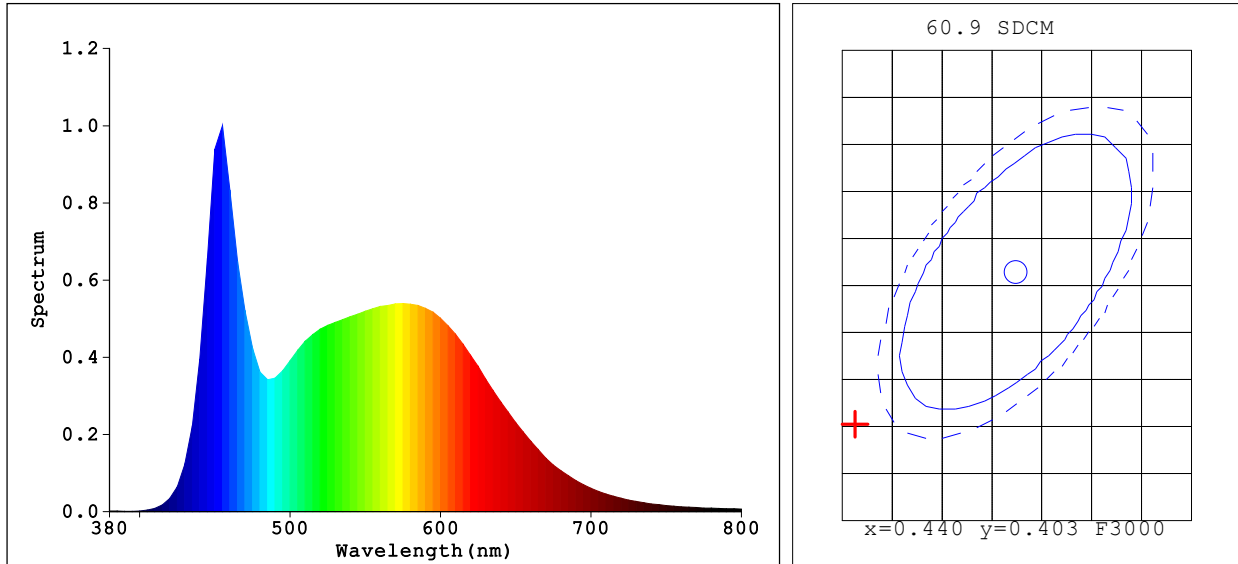
Instrument Status:

Scan Range:380.0nm-800.0nm Interval:5.0nm[0] $I_p=34324$ (G=3,D=54)
 REF=52242 (R=3) $\%=-0.557\%$ PMT: 31.8 centigrade [150.0]

Product Type:UF9AL-100
 Number:34
 Temperature:25.3 deg
 Test Operator:DAMIN
 Software:V2.00.125

Manufacturer:
 Test Department:
 Humidity:65.0%
 Test Date:2020-09-30 10:34:53
 Instrument:PMS-80_V1 (SN:11070007)

Light Source Test Report



Color Parameters:

Chromaticity Coordinate: x=0.3200 y=0.3349
 Chromaticity Coordinate: u'=0.2007 v'=0.4725 (duv=2.63e-03)
 Tc=6092K Dominant WL:Ld=493.3nm Purity=4.4% Centroid WL:543.0nm
 Ratio:R=15.5% G=78.8% B=5.7% Peak WL:Lp=455.0nm HWL:29.1nm
 Render Index:Ra=85.6
 R1 =84 R2 =93 R3 =95 R4 =83 R5 =85 R6 =88 R7 =87
 R8 =70 R9 =16 R10=81 R11=83 R12=63 R13=87 R14=98 R15=80

Photo Parameters:

Flux: 13902 lm Fe: 45.311 W Efficacy:110.3 lm/W

Electrical Parameters:

Luminaire: U=218.7V I=0.6114A P=126.1W PF=0.9428

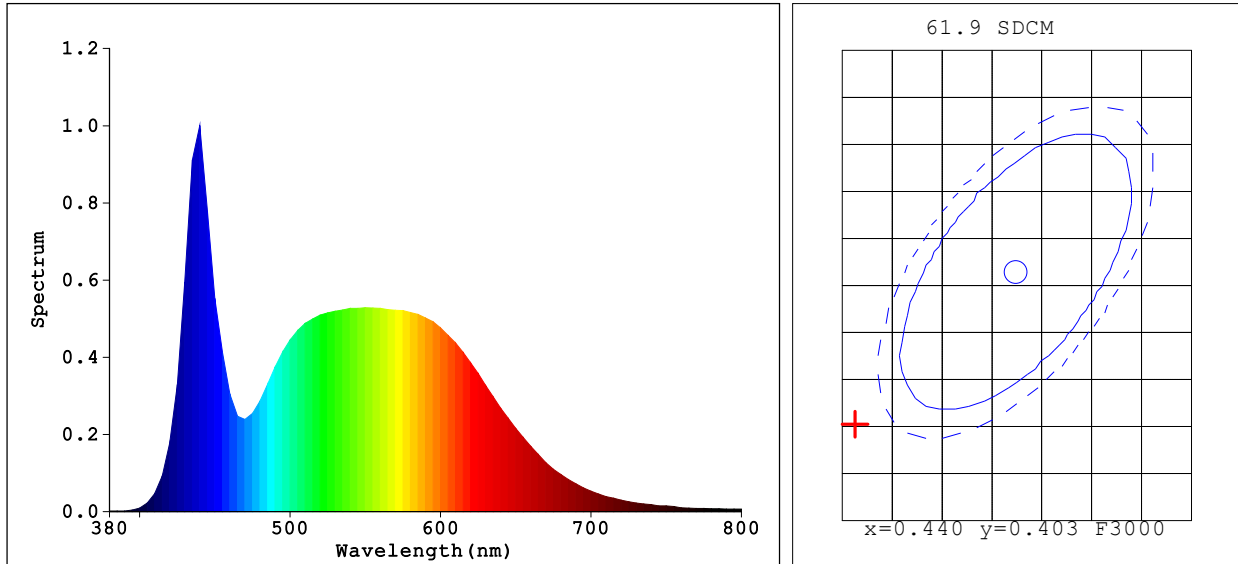
Instrument Status:

Scan Range:380.0nm-800.0nm Interval:5.0nm[0] Ip=51001 (G=3,D=54)
 REF=6935 (R=2) %=0.367% PMT: 32.3 centigrade [150.0]

Product Type:UF9AL-150
 Number:35
 Temperature:25.3 deg
 Test Operator:DAMIN
 Software:V2.00.125

Manufacturer:
 Test Department:
 Humidity:65.0%
 Test Date:2020-09-30 11:17:51
 Instrument:PMS-80_V1 (SN:11070007)

Light Source Test Report



Color Parameters:

Chromaticity Coordinate: x=0.3188 y=0.3390
 Chromaticity Coordinate: u'=0.1983 v'=0.4744 (duv=5.27e-03)
 Tc=6137K Dominant WL:Ld=496.7nm Purity=4.6% Centroid WL:538.0nm
 Ratio:R=14.8% G=80.5% B=4.7% Peak WL:Lp=440.0nm HWL:23.6nm
 Render Index:Ra=82.1
 R1 =80 R2 =84 R3 =89 R4 =84 R5 =83 R6 =82 R7 =85
 R8 =70 R9 =4 R10=64 R11=86 R12=74 R13=80 R14=94 R15=73

Photo Parameters:

Flux: 19520 lm Fe: 63.882 W Efficacy:91.40 lm/W

Electrical Parameters:

Luminaire: U=218.6V I=1.000A P=213.6W PF=0.9770

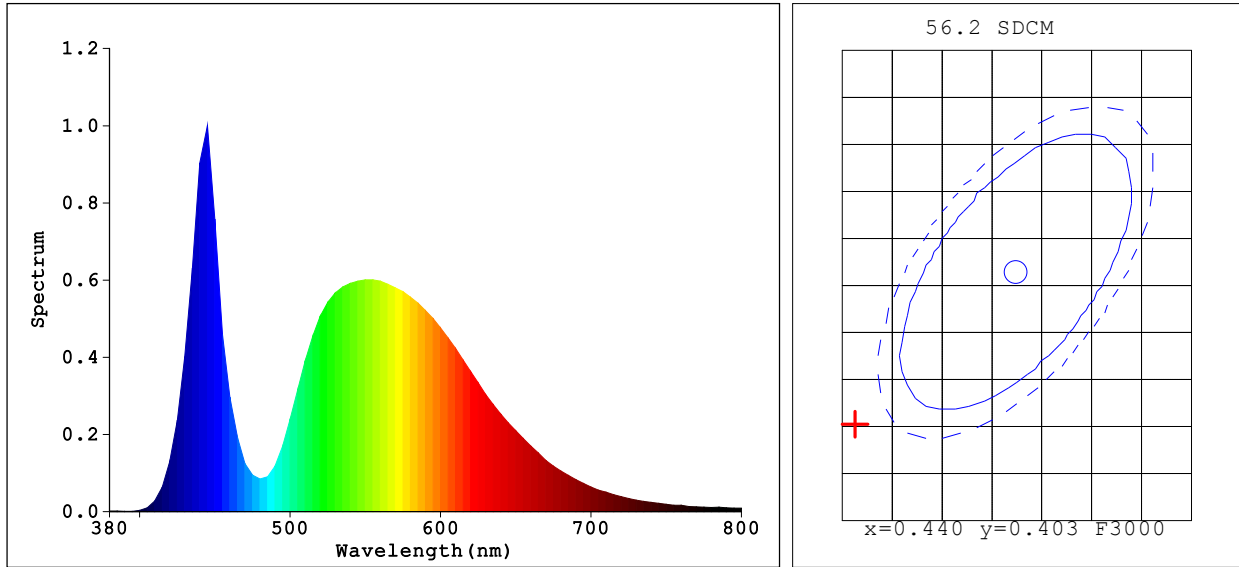
Instrument Status:

Scan Range:380.0nm-800.0nm Interval:5.0nm[0] Ip=8699 (G=2,D=54)
 REF=9685 (R=2) %=0.563% PMT: 32.4 centigrade [150.0]

Product Type:UF9AL-200
 Number:36
 Temperature:25.3 deg
 Test Operator:DAMIN
 Software:V2.00.125

Manufacturer:
 Test Department:
 Humidity:65.0%
 Test Date:2020-09-30 11:25:01
 Instrument:PMS-80_V1 (SN:11070007)

Light Source Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3325$ $y=0.3569$
 Chromaticity Coordinate: $u'=0.2010$ $v'=0.4854$ ($duv=7.89e-03$)
 Tc=5504K Dominant WL:Ld=552.7nm Purity=6.9% Centroid WL:549.0nm
 Ratio:R=14.0% G=83.4% B=2.6% Peak WL:Lp=445.0nm HWL:22.2nm
 Render Index:Ra=69.1
 R1 =67 R2 =72 R3 =76 R4 =71 R5 =69 R6 =64 R7 =77
 R8 =57 R9 =-35 R10=34 R11=70 R12=42 R13=66 R14=87 R15=60

Photo Parameters:

Flux: 20264 lm Fe: 61.104 W Efficacy:102.8 lm/W

Electrical Parameters:

Luminaire: U=263.9V I=0.7677A P=197.2W PF=0.9733

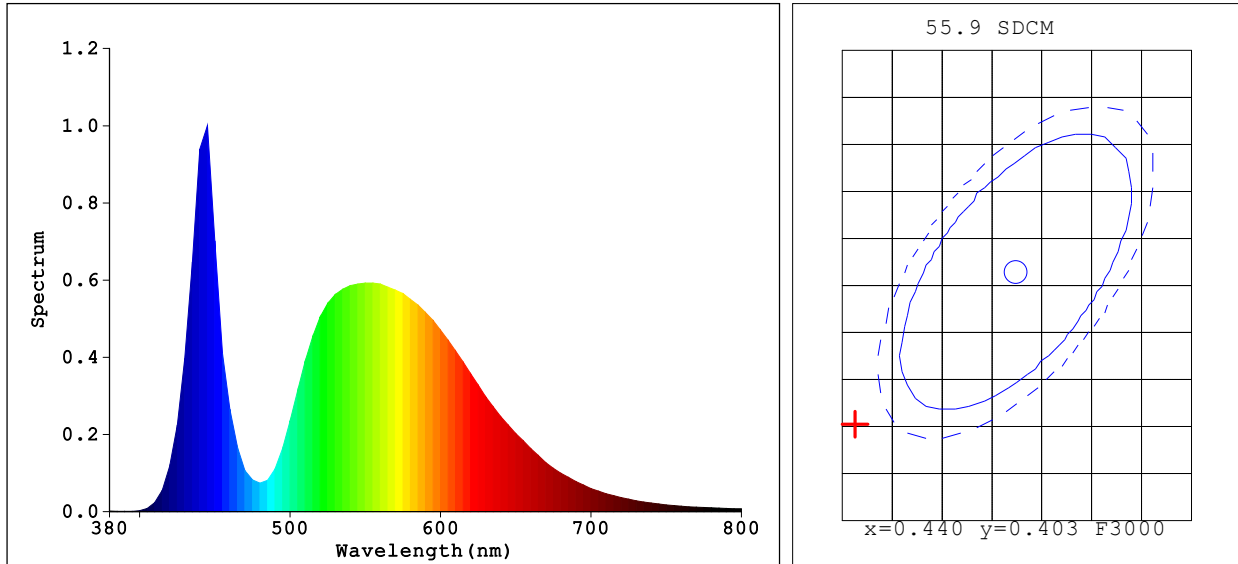
Instrument Status:

Scan Range:380.0nm-800.0nm Interval:5.0nm[0] $I_p=8688$ (G=2,D=54)
 REF=10050 (R=2) $\%=-0.070\%$ PMT: 34.8 centigrade [150.0]

Product Type:F8AL-200
 Number:38
 Temperature:25.3 deg
 Test Operator:DAMIN
 Software:V2.00.125

Manufacturer:
 Test Department:
 Humidity:65.0%
 Test Date:2020-09-30 14:24:43
 Instrument:PMS-80_V1 (SN:11070007)

Light Source Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3336$ $y=0.3594$
 Chromaticity Coordinate: $u'=0.2008$ $v'=0.4867$ ($duv=8.59e-03$)
 Tc=5457K Dominant WL:Ld=555.0nm Purity=8.0% Centroid WL:549.0nm
 Ratio:R=14.0% G=83.6% B=2.4% Peak WL:Lp=445.0nm HWL:21.4nm
 Render Index:Ra=68.4
 R1 =66 R2 =71 R3 =76 R4 =70 R5 =68 R6 =63 R7 =77
 R8 =56 R9 =-38 R10=33 R11=70 R12=41 R13=65 R14=86 R15=59

Photo Parameters:

Flux: 10264 lm Fe: 30.637 W Efficacy:114.2 lm/W

Electrical Parameters:

Luminaire: U=264.1V I=0.3530A P=89.91W PF=0.9645

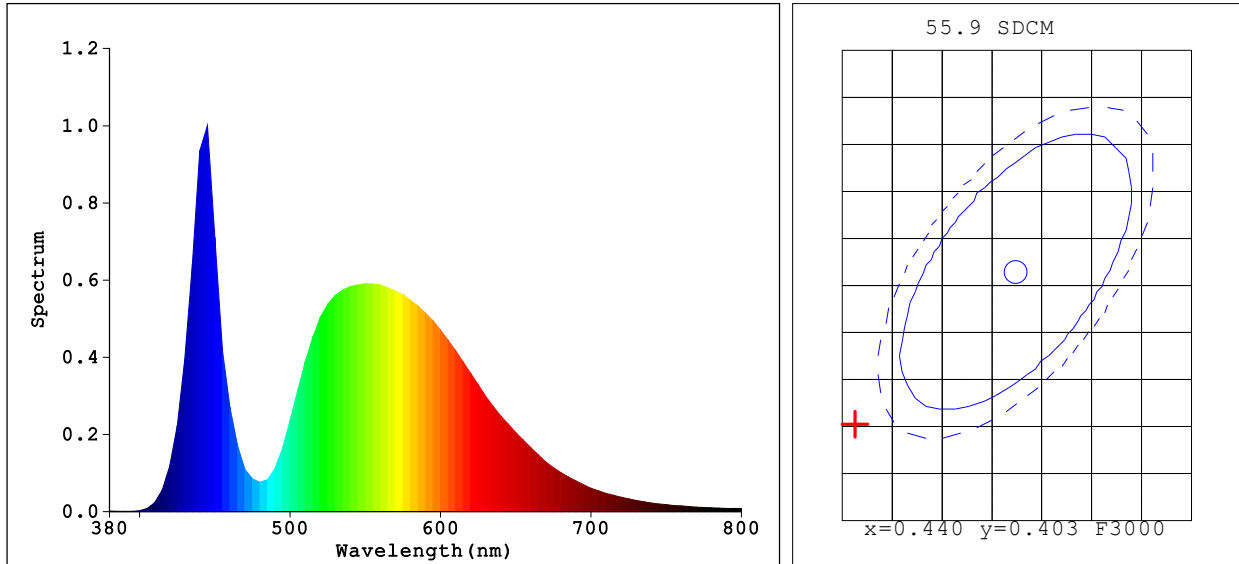
Instrument Status:

Scan Range:380.0nm-800.0nm Interval:5.0nm[0] $I_p=32029$ (G=3,D=55)
 REF=50143 (R=3) $\%=-0.106\%$ PMT: 34.8 centigrade [150.0]

Product Type:F8AL-100
 Number:39
 Temperature:25.3 deg
 Test Operator:DAMIN
 Software:V2.00.125

Manufacturer:
 Test Department:
 Humidity:65.0%
 Test Date:2020-09-30 14:28:59
 Instrument:PMS-80_V1 (SN:11070007)

Light Source Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3334$ $y=0.3584$
 Chromaticity Coordinate: $u'=0.2010$ $v'=0.4862$ ($duv=8.22e-03$)
 Tc=5467K Dominant WL:Ld=554.6nm Purity=7.6% Centroid WL:549.0nm
 Ratio:R=14.0% G=83.5% B=2.5% Peak WL:Lp=445.0nm HWL:21.5nm
 Render Index:Ra=68.7
 R1 =66 R2 =71 R3 =76 R4 =71 R5 =68 R6 =63 R7 =77
 R8 =57 R9 =-37 R10=33 R11=70 R12=42 R13=66 R14=86 R15=60

Photo Parameters:

Flux: 14438 lm Fe: 43.260 W Efficacy:102.5 lm/W

Electrical Parameters:

Luminaire: U=263.8V I=0.5435A P=140.8W PF=0.9820

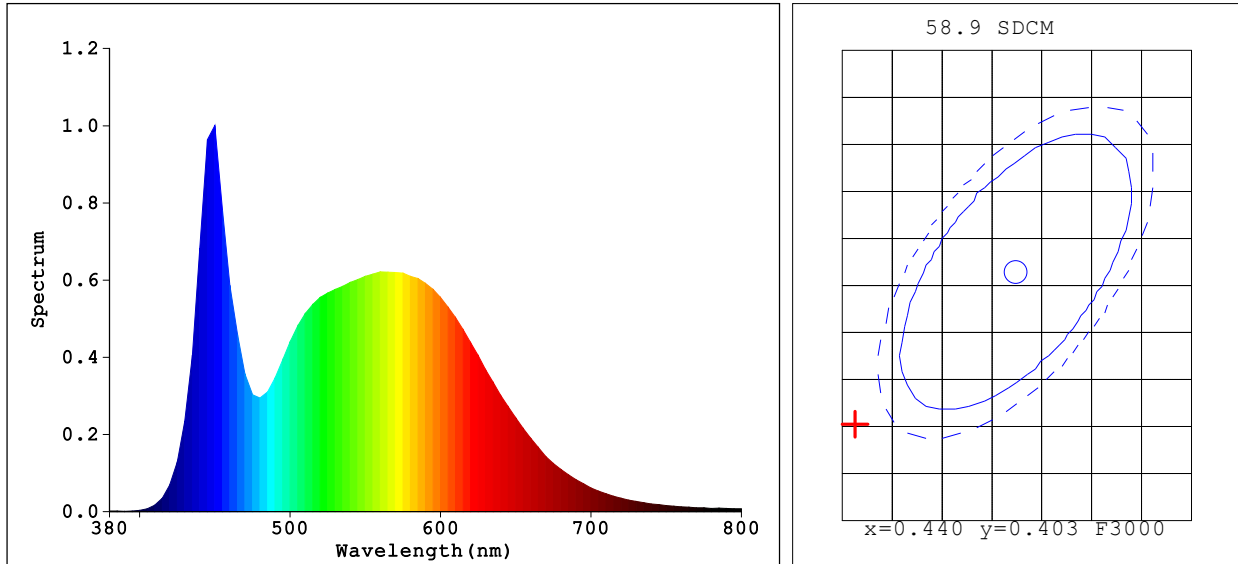
Instrument Status:

Scan Range:380.0nm-800.0nm Interval:5.0nm[0] $I_p=45374$ (G=3,D=55)
 REF=7192 (R=2) $\%=-0.155\%$ PMT: 35.0 centigrade [150.0]

Product Type:F8AL-150
 Number:40
 Temperature:25.3 deg
 Test Operator:DAMIN
 Software:V2.00.125

Manufacturer:
 Test Department:
 Humidity:65.0%
 Test Date:2020-09-30 14:30:52
 Instrument:PMS-80_V1 (SN:11070007)

Light Source Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3259$ $y=0.3486$
 Chromaticity Coordinate: $u'=0.1996$ $v'=0.4803$ ($duv=6.72e-03$)
 Tc=5780K Dominant WL:Ld=522.1nm Purity=3.0% Centroid WL:545.0nm
 Ratio:R=14.9% G=80.6% B=4.6% Peak WL:Lp=450.0nm HWL:26.7nm
 Render Index:Ra=80.8
 R1 =77 R2 =85 R3 =91 R4 =81 R5 =80 R6 =81 R7 =87
 R8 =65 R9 =-7 R10=66 R11=80 R12=62 R13=79 R14=95 R15=71

Photo Parameters:

Flux: 5359.1 lm Fe: 16.759 W Efficacy:105.4 lm/W

Electrical Parameters:

Luminaire: U=263.9V I=0.1999A P=50.85W PF=0.9636

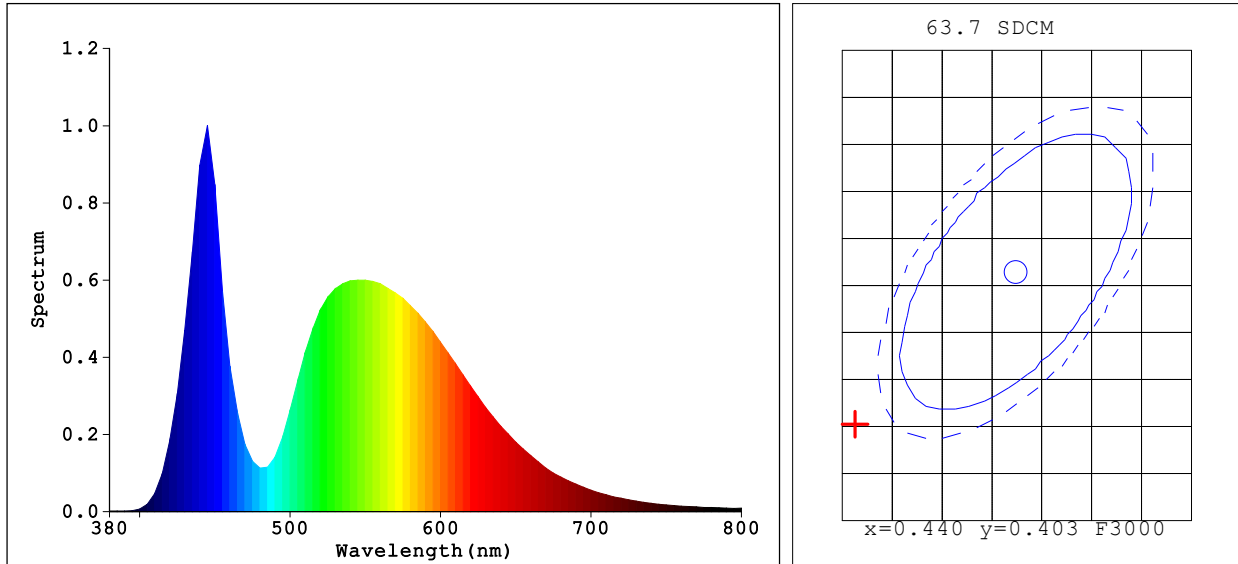
Instrument Status:

Scan Range:380.0nm-800.0nm Interval:5.0nm[0] $I_p=15289$ (G=3,D=55)
 REF=26250 (R=3) $\%=-0.507\%$ PMT: 34.9 centigrade [150.0]

Product Type:ASL66A-50
 Number:42
 Temperature:25.3 deg
 Test Operator:DAMIN
 Software:V2.00.125

Manufacturer:
 Test Department:
 Humidity:65.0%
 Test Date:2020-09-30 14:44:10
 Instrument:PMS-80_V1 (SN:11070007)

Light Source Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3167$ $y=0.3445$
 Chromaticity Coordinate: $u'=0.1948$ $v'=0.4770$ ($duv=9.03e-03$)
 Tc=6212K Dominant WL:Ld=500.5nm Purity=5.1% Centroid WL:542.0nm
 Ratio:R=12.8% G=84.1% B=3.1% Peak WL:Lp=445.0nm HWL:26.1nm
 Render Index:Ra=69.1
 R1 =66 R2 =71 R3 =76 R4 =71 R5 =69 R6 =64 R7 =78
 R8 =58 R9 =-39 R10=33 R11=70 R12=44 R13=66 R14=87 R15=60

Photo Parameters:

Flux: 10001 lm Fe: 30.870 W Efficacy:100.2 lm/W

Electrical Parameters:

Luminaire: U=263.9V I=0.3823A P=99.83W PF=0.9894

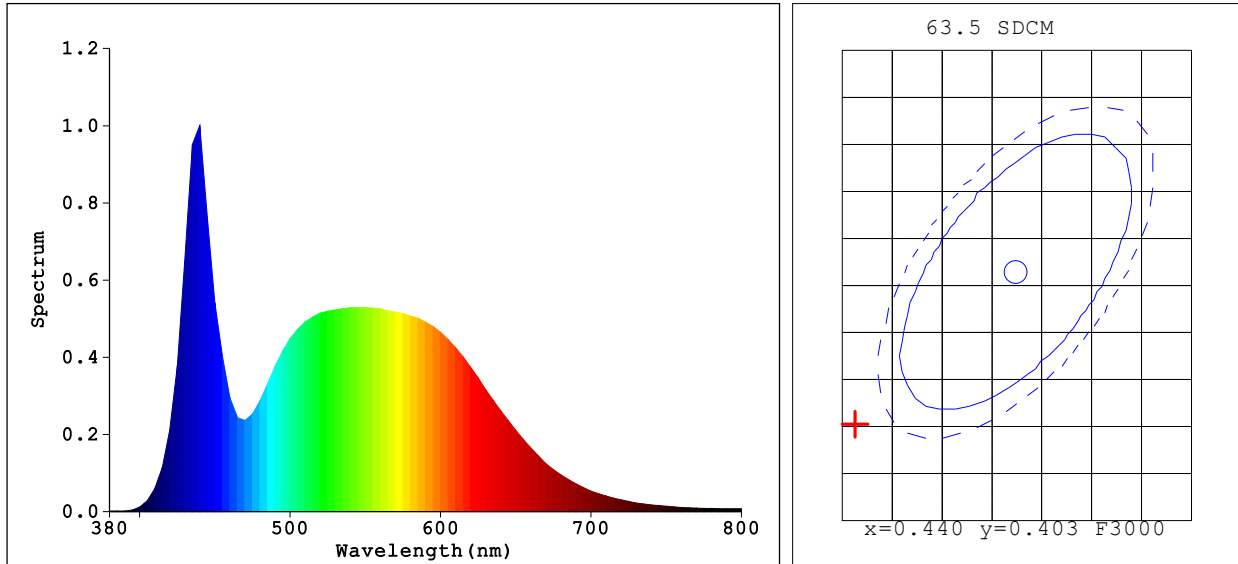
Instrument Status:

Scan Range:380.0nm-800.0nm Interval:5.0nm[0] $I_p=33571$ (G=3,D=54)
 REF=48750 (R=3) $\%=-0.499\%$ PMT: 34.9 centigrade [150.0]

Product Type:ASL66A-100
 Number:43
 Temperature:25.3 deg
 Test Operator:DAMIN
 Software:V2.00.125

Manufacturer:
 Test Department:
 Humidity:65.0%
 Test Date:2020-09-30 14:49:13
 Instrument:PMS-80_V1 (SN:11070007)

Light Source Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3156$ $y=0.3373$
 Chromaticity Coordinate: $u'=0.1967$ $v'=0.4731$ ($duv=5.98e-03$)
 Tc=6302K Dominant WL:Ld=494.6nm Purity=5.8% Centroid WL:537.0nm
 Ratio:R=14.5% G=80.8% B=4.7% Peak WL:Lp=440.0nm HWL:24.2nm
 Render Index:Ra=81.5
 R1 =80 R2 =83 R3 =88 R4 =83 R5 =82 R6 =81 R7 =85
 R8 =69 R9 =3 R10=63 R11=86 R12=73 R13=80 R14=93 R15=73

Photo Parameters:

Flux: 13592 lm Fe: 44.819 W Efficacy:87.05 lm/W

Electrical Parameters:

Luminaire: U=218.8V I=0.7617A P=156.1W PF=0.9366

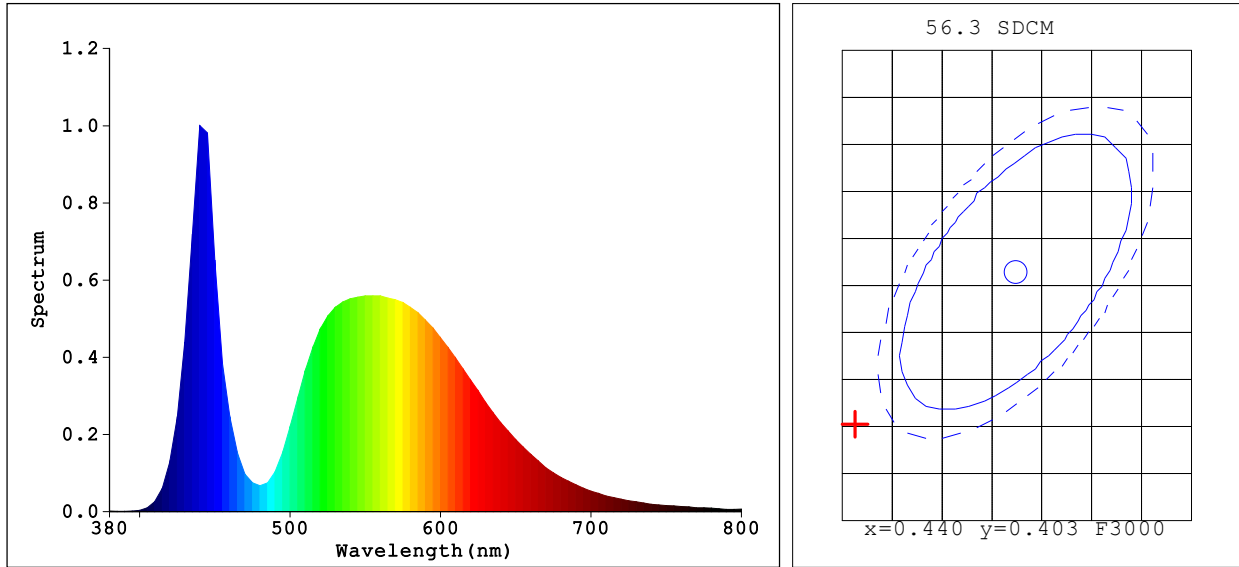
Instrument Status:

Scan Range:380.0nm-800.0nm Interval:5.0nm[0] $I_p=41213$ (G=3,D=54)
 REF=6774 (R=2) $\% = 0.510\%$ PMT: 34.9 centigrade [150.0]

Product Type:ASL66A-150
 Number:44
 Temperature:25.3 deg
 Test Operator:DAMIN
 Software:V2.00.125

Manufacturer:
 Test Department:
 Humidity:65.0%
 Test Date:2020-09-30 14:57:55
 Instrument:PMS-80_V1 (SN:11070007)

Light Source Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3311$ $y=0.3515$
 Chromaticity Coordinate: $u'=0.2020$ $v'=0.4826$ ($duv=5.87e-03$)
 Tc=5561K Dominant WL:Ld=547.9nm Purity=4.9% Centroid WL:548.0nm
 Ratio:R=14.0% G=83.5% B=2.5% Peak WL:Lp=440.0nm HWL:21.7nm
 Render Index:Ra=68.3
 R1 =67 R2 =71 R3 =75 R4 =70 R5 =69 R6 =63 R7 =76
 R8 =57 R9 =-37 R10=32 R11=71 R12=42 R13=66 R14=86 R15=60

Photo Parameters:

Flux: 18162 lm Fe: 54.832 W Efficacy:95.60 lm/W

Electrical Parameters:

Luminaire: U=218.9V I=0.8758A P=190.0W PF=0.9912

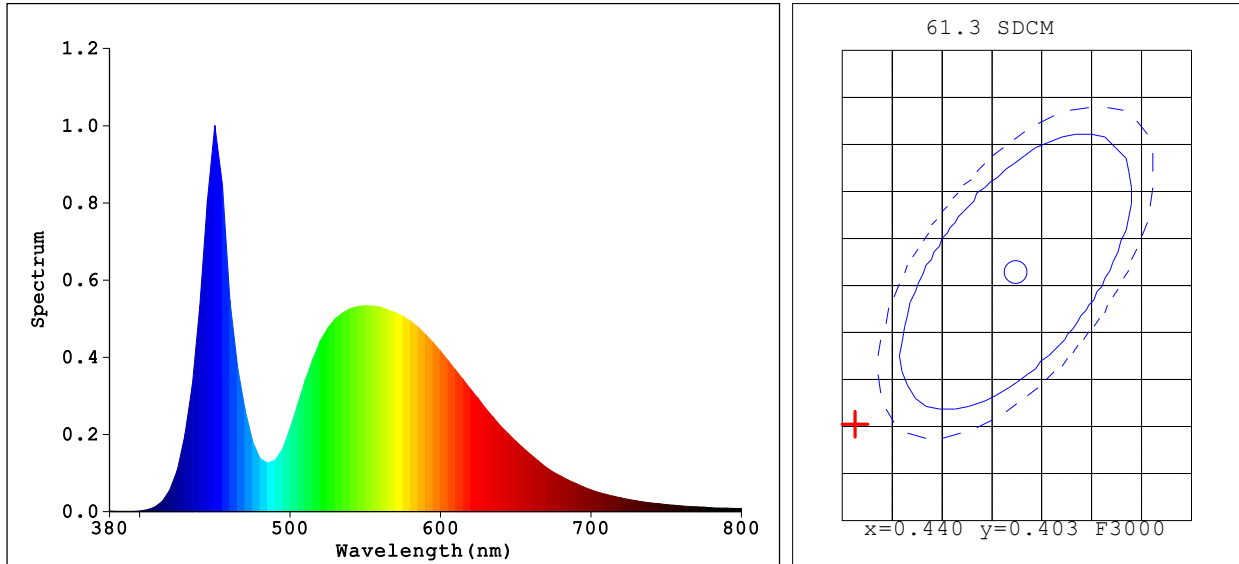
Instrument Status:

Scan Range:380.0nm-800.0nm Interval:5.0nm[0] $I_p=8505$ (G=2,D=54)
 REF=9018 (R=2) $\% = 1.216\%$ PMT: 34.9 centigrade [150.0]

Product Type:HB10-200
 Number:45
 Temperature:25.3 deg
 Test Operator:DAMIN
 Software:V2.00.125

Manufacturer:
 Test Department:
 Humidity:65.0%
 Test Date:2020-09-30 15:08:10
 Instrument:PMS-80_V1 (SN:11070007)

Light Source Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3203$ $y=0.3417$
 Chromaticity Coordinate: $u'=0.1984$ $v'=0.4761$ ($duv=5.87e-03$)
 Tc=6051K Dominant WL:Ld=500.1nm Purity=4.0% Centroid WL:546.0nm
 Ratio:R=13.7% G=82.7% B=3.6% Peak WL:Lp=450.0nm HWL:22.2nm
 Render Index:Ra=73.5
 R1 =71 R2 =77 R3 =80 R4 =74 R5 =72 R6 =69 R7 =83
 R8 =62 R9 =-23 R10=44 R11=71 R12=41 R13=71 R14=89 R15=66

Photo Parameters:

Flux: 9786.8 lm Fe: 30.282 W Efficacy:103.7 lm/W

Electrical Parameters:

Luminaire: U=219.0V I=0.4336A P=94.34W PF=0.9936

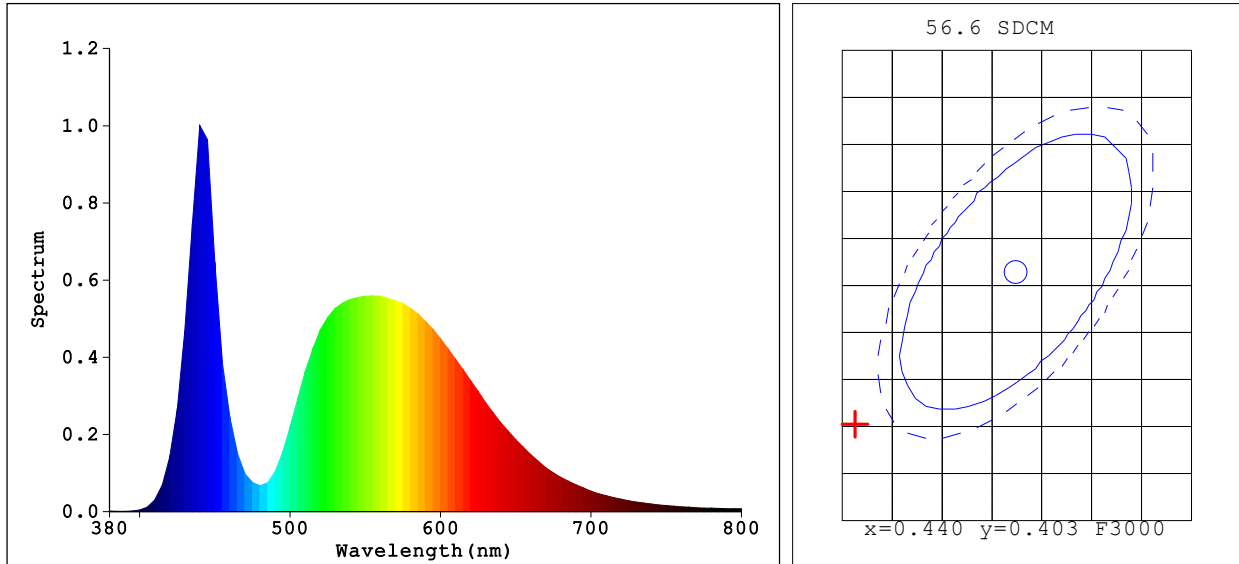
Instrument Status:

Scan Range:380.0nm-800.0nm Interval:5.0nm[0] $I_p=36588$ (G=3,D=54)
 REF=47774 (R=3) $\% = 0.628\%$ PMT: 35.1 centigrade [150.0]

Product Type:HB10-100
 Number:46
 Temperature:25.3 deg
 Test Operator:DAMIN
 Software:V2.00.125

Manufacturer:
 Test Department:
 Humidity:65.0%
 Test Date:2020-09-30 15:16:57
 Instrument:PMS-80_V1 (SN:11070007)

Light Source Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3302$ $y=0.3499$
 Chromaticity Coordinate: $u'=0.2020$ $v'=0.4816$ ($duv=5.42e-03$)
 Tc=5597K Dominant WL:Ld=544.0nm Purity=4.2% Centroid WL:548.0nm
 Ratio:R=14.0% G=83.5% B=2.5% Peak WL:Lp=440.0nm HWL:22.2nm
 Render Index:Ra=68.3
 R1 =67 R2 =71 R3 =74 R4 =70 R5 =69 R6 =63 R7 =75
 R8 =57 R9 =-36 R10=32 R11=71 R12=42 R13=66 R14=85 R15=60

Photo Parameters:

Flux: 15044 lm Fe: 45.672 W Efficacy:100.3 lm/W

Electrical Parameters:

Luminaire: U=218.9V I=0.6898A P=149.9W PF=0.9930

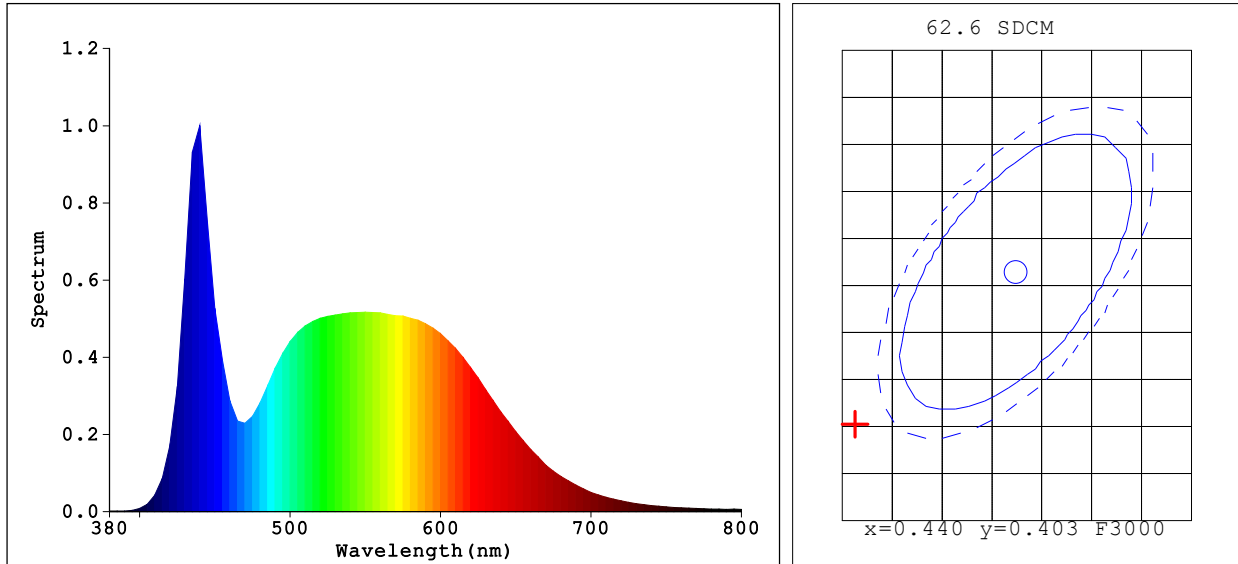
Instrument Status:

Scan Range:380.0nm-800.0nm Interval:5.0nm[0] $I_p=50481$ (G=3,D=55)
 REF=7489 (R=2) $\% = 1.052\%$ PMT: 35.1 centigrade [150.0]

Product Type:HB10-150
 Number:47
 Temperature:25.3 deg
 Test Operator:DAMIN
 Software:V2.00.125

Manufacturer:
 Test Department:
 Humidity:65.0%
 Test Date:2020-09-30 15:19:19
 Instrument:PMS-80_V1 (SN:11070007)

Light Source Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3174$ $y=0.3386$
 Chromaticity Coordinate: $u'=0.1975$ $v'=0.4741$ ($duv=5.73e-03$)
 Tc=6203K Dominant WL:Ld=496.0nm Purity=5.1% Centroid WL:538.0nm
 Ratio:R=14.7% G=80.6% B=4.7% Peak WL:Lp=440.0nm HWL:22.8nm
 Render Index:Ra=81.8
 R1 =80 R2 =84 R3 =89 R4 =83 R5 =83 R6 =82 R7 =85
 R8 =69 R9 =3 R10=64 R11=86 R12=74 R13=80 R14=94 R15=73

Photo Parameters:

Flux: 5022.1 lm Fe: 16.422 W Efficacy:93.29 lm/W

Electrical Parameters:

Luminaire: U=219.1V I=0.2514A P=53.83W PF=0.9774

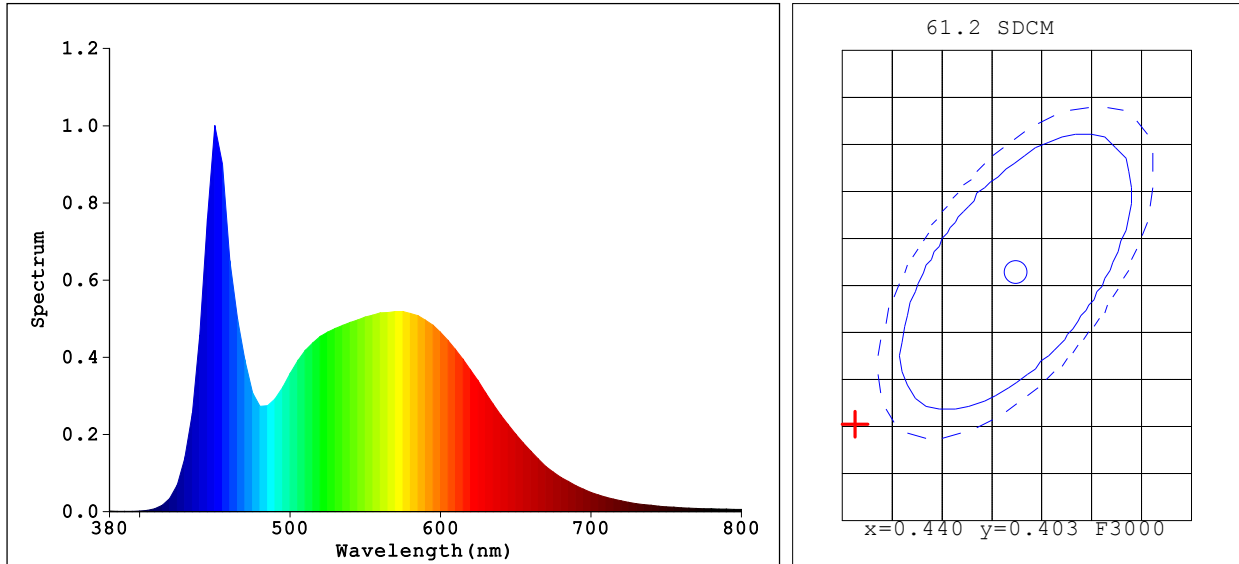
Instrument Status:

Scan Range:380.0nm-800.0nm Interval:5.0nm[0] $I_p=15903$ (G=3,D=55)
 REF=24588 (R=3) $\% = 0.531\%$ PMT: 35.0 centigrade [150.0]

Product Type:HB10-50
 Number:48
 Temperature:25.3 deg
 Test Operator:DAMIN
 Software:V2.00.125

Manufacturer:
 Test Department:
 Humidity:65.0%
 Test Date:2020-09-30 15:22:56
 Instrument:PMS-80_V1 (SN:11070007)

Light Source Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3198$ $y=0.3371$
 Chromaticity Coordinate: $u'=0.1997$ $v'=0.4736$ ($duv=3.84e-03$)
 Tc=6094K Dominant WL:Ld=495.3nm Purity=4.4% Centroid WL:542.0nm
 Ratio:R=14.9% G=80.0% B=5.1% Peak WL:Lp=450.0nm HWL:24.3nm
 Render Index:Ra=82.5
 R1 =80 R2 =88 R3 =92 R4 =82 R5 =81 R6 =83 R7 =87
 R8 =67 R9 =1 R10=71 R11=81 R12=59 R13=82 R14=96 R15=75

Photo Parameters:

Flux: 11886 lm Fe: 37.863 W Efficacy:117.9 lm/W

Electrical Parameters:

Luminaire: U=218.9V I=0.4692A P=100.8W PF=0.9813

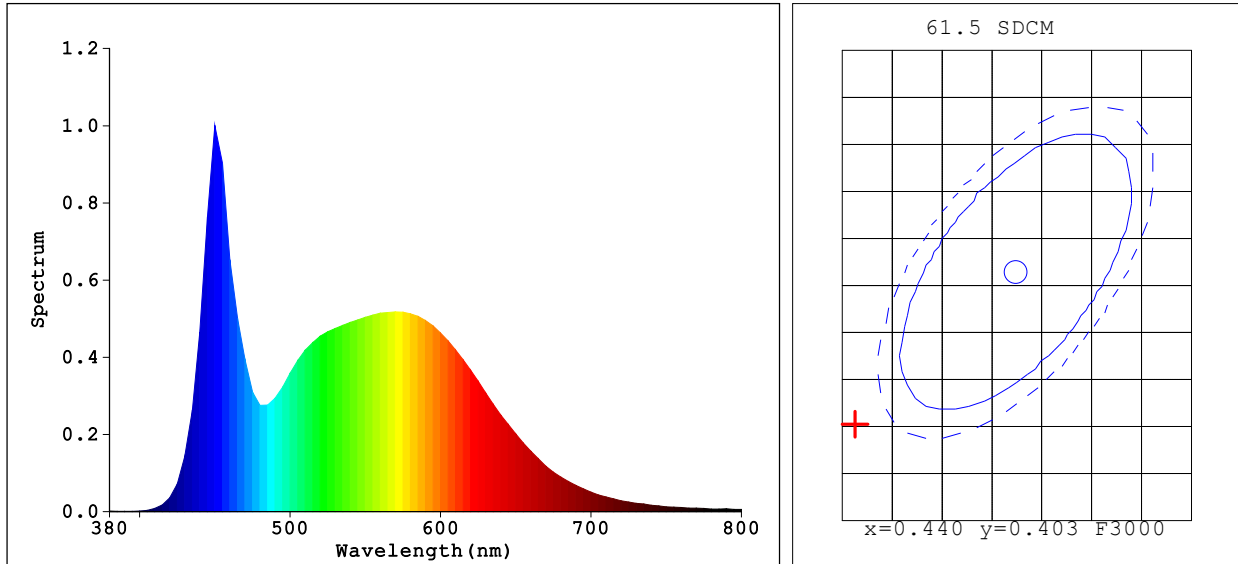
Instrument Status:

Scan Range:380.0nm-800.0nm Interval:5.0nm[0] $I_p=41592$ (G=3,D=55)
 REF=58066 (R=3) $\%=-0.048\%$ PMT: 35.0 centigrade [150.0]

Product Type:F5AL-100
 Number:49
 Temperature:25.3 deg
 Test Operator:DAMIN
 Software:V2.00.125

Manufacturer:
 Test Department:
 Humidity:65.0%
 Test Date:2020-09-30 15:27:40
 Instrument:PMS-80_V1 (SN:11070007)

Light Source Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3191$ $y=0.3362$
 Chromaticity Coordinate: $u'=0.1996$ $v'=0.4731$ ($duv=3.71e-03$)
 Tc=6132K Dominant WL:Ld=494.3nm Purity=4.6% Centroid WL:542.0nm
 Ratio:R=14.9% G=80.0% B=5.1% Peak WL:Lp=450.0nm HWL:24.5nm
 Render Index:Ra=82.7
 R1 =80 R2 =88 R3 =92 R4 =82 R5 =81 R6 =83 R7 =87
 R8 =68 R9 =2 R10=71 R11=81 R12=59 R13=83 R14=96 R15=75

Photo Parameters:

Flux: 17623 lm Fe: 56.314 W Efficacy:113.7 lm/W

Electrical Parameters:

Luminaire: U=218.9V I=0.7159A P=154.9W PF=0.9887

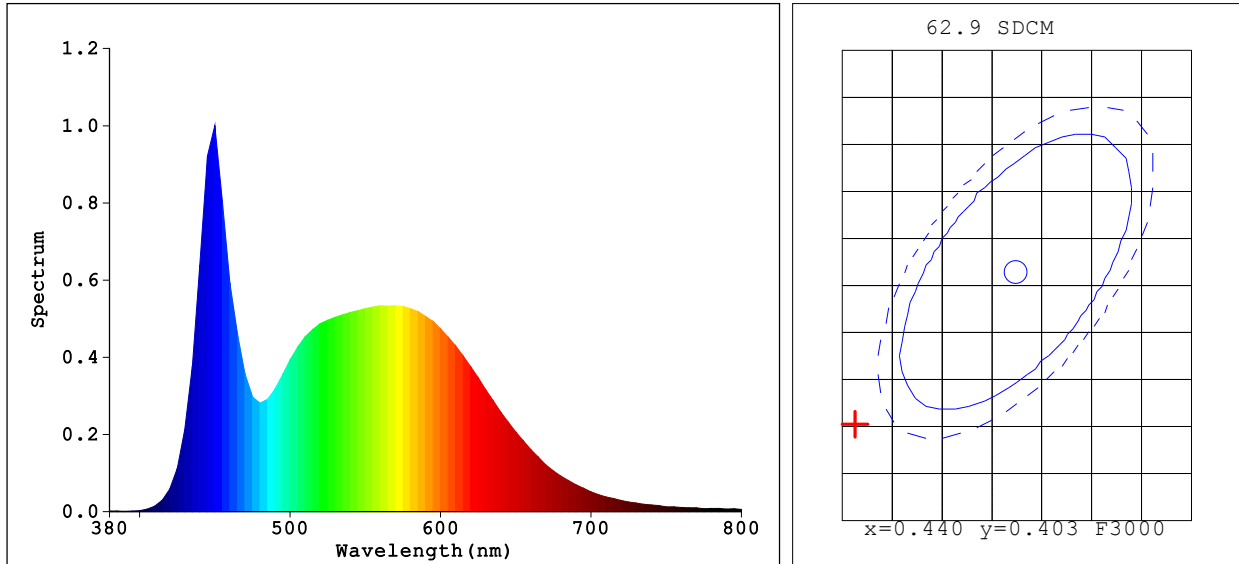
Instrument Status:

Scan Range:380.0nm-800.0nm Interval:5.0nm[0] $I_p=8470$ (G=2,D=54)
 REF=8755 (R=2) $\%=-0.058\%$ PMT: 35.0 centigrade [150.0]

Product Type:F5AL-150
 Number:50
 Temperature:25.3 deg
 Test Operator:DAMIN
 Software:V2.00.125

Manufacturer:
 Test Department:
 Humidity:65.0%
 Test Date:2020-09-30 15:30:46
 Instrument:PMS-80_V1 (SN:11070007)

Light Source Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3163$ $y=0.3346$
 Chromaticity Coordinate: $u'=0.1983$ $v'=0.4718$ ($duv=4.24e-03$)
 Tc=6280K Dominant WL:Ld=492.6nm Purity=5.7% Centroid WL:540.0nm
 Ratio:R=14.7% G=80.3% B=5.0% Peak WL:Lp=450.0nm HWL:26.1nm
 Render Index:Ra=82.6
 R1 =80 R2 =87 R3 =91 R4 =83 R5 =82 R6 =82 R7 =88
 R8 =69 R9 =3 R10=69 R11=82 R12=62 R13=82 R14=95 R15=75

Photo Parameters:

Flux: 19453 lm Fe: 62.577 W Efficacy:96.21 lm/W

Electrical Parameters:

Luminaire: U=218.8V I=0.9405A P=202.2W PF=0.9825

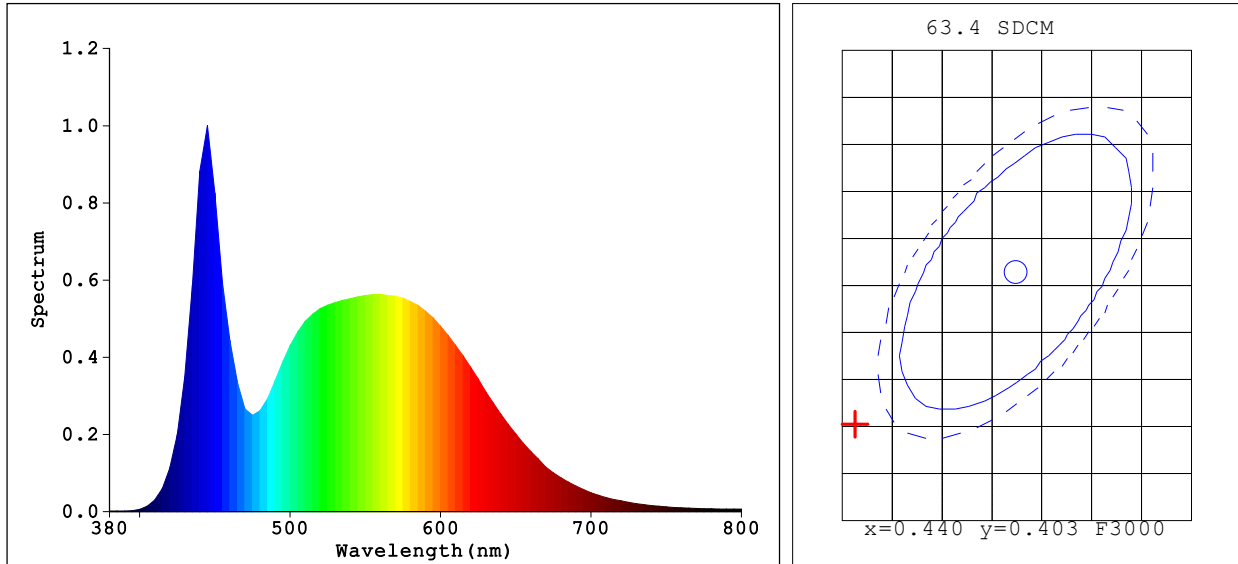
Instrument Status:

Scan Range:380.0nm-800.0nm Interval:5.0nm[0] $I_p=8980$ (G=2,D=54)
 REF=9648 (R=2) $\%=-0.126\%$ PMT: 35.1 centigrade [150.0]

Product Type:F5AL-200
 Number:51
 Temperature:25.3 deg
 Test Operator:DAMIN
 Software:V2.00.125

Manufacturer:
 Test Department:
 Humidity:65.0%
 Test Date:2020-09-30 15:32:57
 Instrument:PMS-80_V1 (SN:11070007)

Light Source Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3166$ $y=0.3419$
 Chromaticity Coordinate: $u'=0.1958$ $v'=0.4756$ ($duv=7.75e-03$)
 Tc=6228K Dominant WL:Ld=498.4nm Purity=5.2% Centroid WL:539.0nm
 Ratio:R=14.0% G=81.4% B=4.6% Peak WL:Lp=445.0nm HWL:24.9nm
 Render Index:Ra=79.4
 R1 =76 R2 =82 R3 =89 R4 =81 R5 =79 R6 =79 R7 =85
 R8 =65 R9 =-13 R10=60 R11=81 R12=64 R13=77 R14=94 R15=69

Photo Parameters:

Flux: 6572.7 lm Fe: 20.810 W Efficacy:123.1 lm/W

Electrical Parameters:

Luminaire: U=219.1V I=0.2512A P=53.41W PF=0.9708

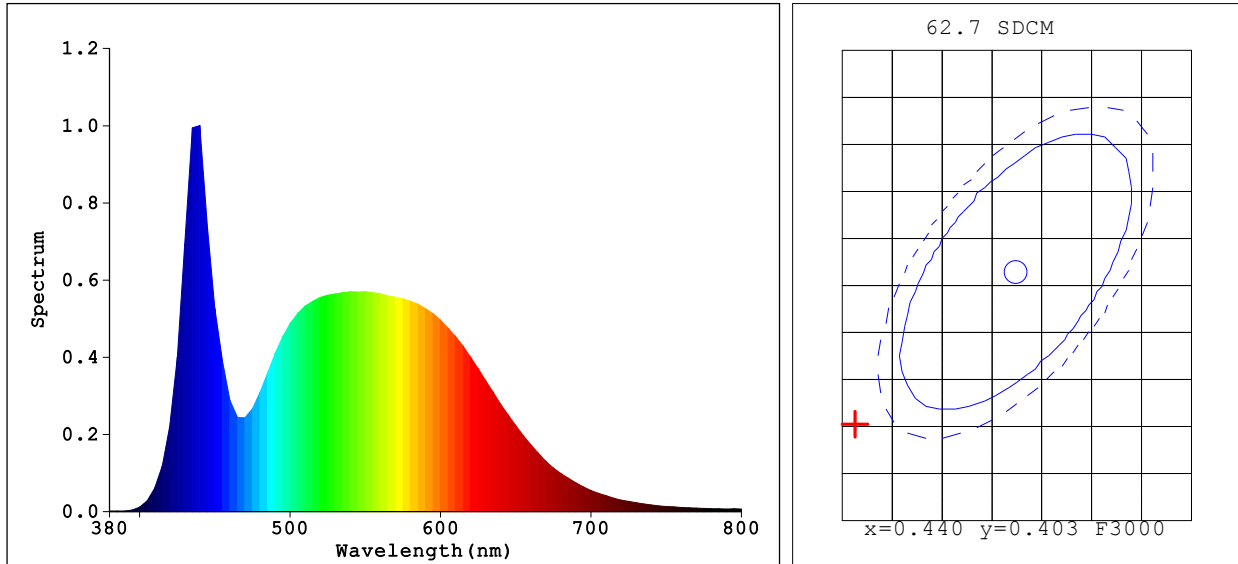
Instrument Status:

Scan Range:380.0nm-800.0nm Interval:5.0nm[0] $I_p=18302$ (G=3,D=55)
 REF=32119 (R=3) $\%=-0.344\%$ PMT: 35.0 centigrade [150.0]

Product Type:F5AL-50
 Number:52
 Temperature:25.3 deg
 Test Operator:DAMIN
 Software:V2.00.125

Manufacturer:
 Test Department:
 Humidity:65.0%
 Test Date:2020-09-30 15:36:04
 Instrument:PMS-80_V1 (SN:11070007)

Light Source Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3185$ $y=0.3449$
 Chromaticity Coordinate: $u'=0.1959$ $v'=0.4774$ ($duv=8.37e-03$)
 Tc=6127K Dominant WL:Ld=502.1nm Purity=4.5% Centroid WL:538.0nm
 Ratio:R=14.4% G=80.9% B=4.6% Peak WL:Lp=440.0nm HWL:24.3nm
 Render Index:Ra=80.9
 R1 =78 R2 =83 R3 =89 R4 =82 R5 =81 R6 =81 R7 =85
 R8 =67 R9 =-3 R10=62 R11=84 R12=72 R13=78 R14=94 R15=70

Photo Parameters:

Flux: 5522.9 lm Fe: 17.913 W Efficacy:105.9 lm/W

Electrical Parameters:

Luminaire: U=219.0V I=0.2455A P=52.16W PF=0.9703

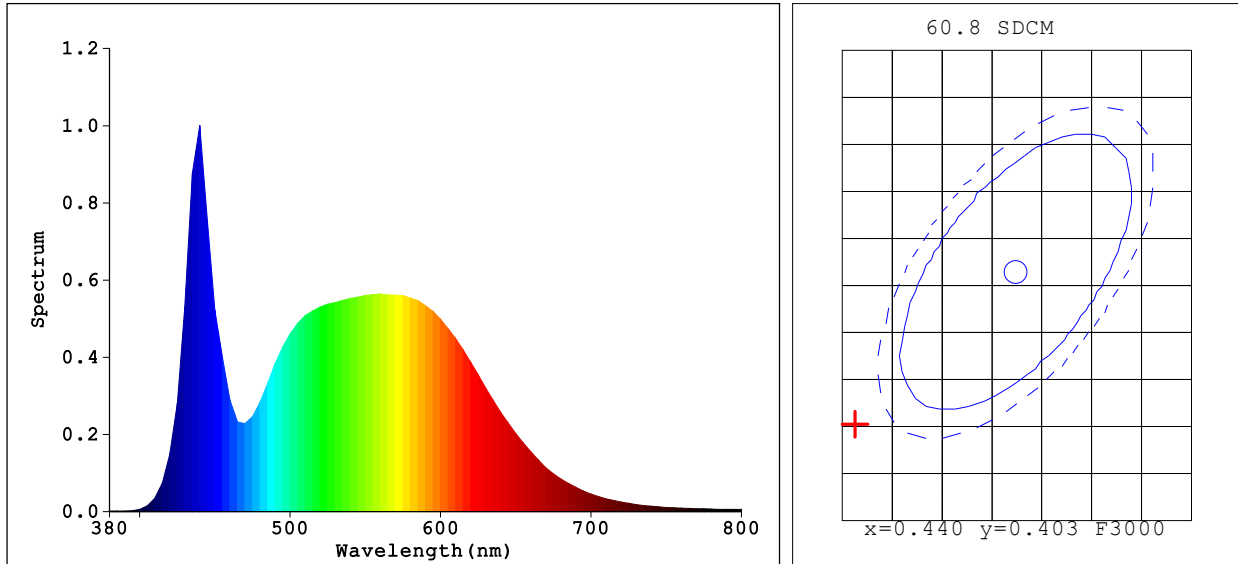
Instrument Status:

Scan Range:380.0nm-800.0nm Interval:5.0nm[0] $I_p=15320$ (G=3,D=55)
 REF=27022 (R=3) $\% = 0.417\%$ PMT: 34.9 centigrade [150.0]

Product Type:F8AL-50
 Number:53
 Temperature:25.3 deg
 Test Operator:DAMIN
 Software:V2.00.125

Manufacturer:
 Test Department:
 Humidity:65.0%
 Test Date:2020-09-30 15:49:19
 Instrument:PMS-80_V1 (SN:11070007)

Light Source Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3232$ $y=0.3513$
 Chromaticity Coordinate: $u'=0.1968$ $v'=0.4813$ ($duv=9.29e-03$)
 Tc=5893K Dominant WL:Ld=517.4nm Purity=3.6% Centroid WL:540.0nm
 Ratio:R=14.3% G=81.2% B=4.4% Peak WL:Lp=440.0nm HWL:21.5nm
 Render Index:Ra=79.1
 R1 =75 R2 =82 R3 =90 R4 =81 R5 =79 R6 =79 R7 =84
 R8 =63 R9 =-18 R10=60 R11=82 R12=70 R13=76 R14=95 R15=67

Photo Parameters:

Flux: 13641 lm Fe: 42.732 W Efficacy:137.9 lm/W

Electrical Parameters:

Luminaire: U=218.9V I=0.4582A P=98.93W PF=0.9863

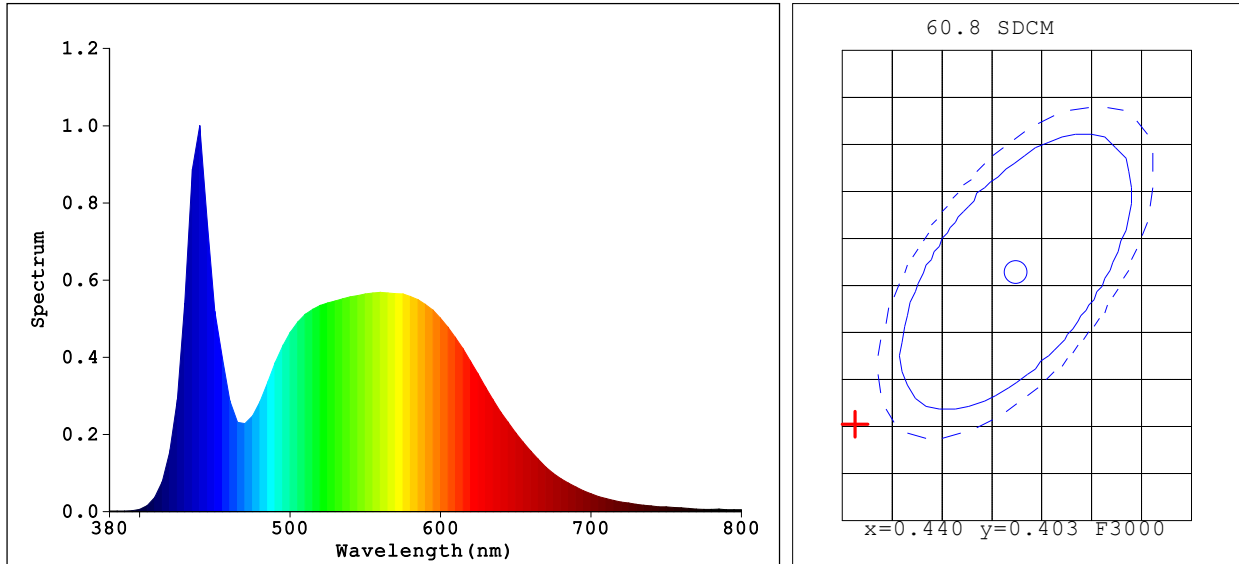
Instrument Status:

Scan Range:380.0nm-800.0nm Interval:5.0nm[0] $I_p=41462$ (G=3,D=55)
 REF=6800 (R=2) $\%=-0.075\%$ PMT: 34.9 centigrade [150.0]

Product Type:8008路灯-100
 Number:54
 Temperature:25.3 deg
 Test Operator:DAMIN
 Software:V2.00.125

Manufacturer:
 Test Department:
 Humidity:65.0%
 Test Date:2020-09-30 15:58:08
 Instrument:PMS-80_V1 (SN:11070007)

Light Source Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3234$ $y=0.3518$
 Chromaticity Coordinate: $u'=0.1967$ $v'=0.4816$ ($duv=9.48e-03$)
 Tc=5886K Dominant WL:Ld=518.8nm Purity=3.7% Centroid WL:540.0nm
 Ratio:R=14.3% G=81.3% B=4.4% Peak WL:Lp=440.0nm HWL:21.6nm
 Render Index:Ra=79.0
 R1 =75 R2 =82 R3 =90 R4 =80 R5 =78 R6 =79 R7 =84
 R8 =63 R9 =-18 R10=60 R11=82 R12=70 R13=76 R14=95 R15=66

Photo Parameters:

Flux: 20792 lm Fe: 65.110 W Efficacy:141.3 lm/W

Electrical Parameters:

Luminaire: U=218.9V I=0.6813A P=147.2W PF=0.9867

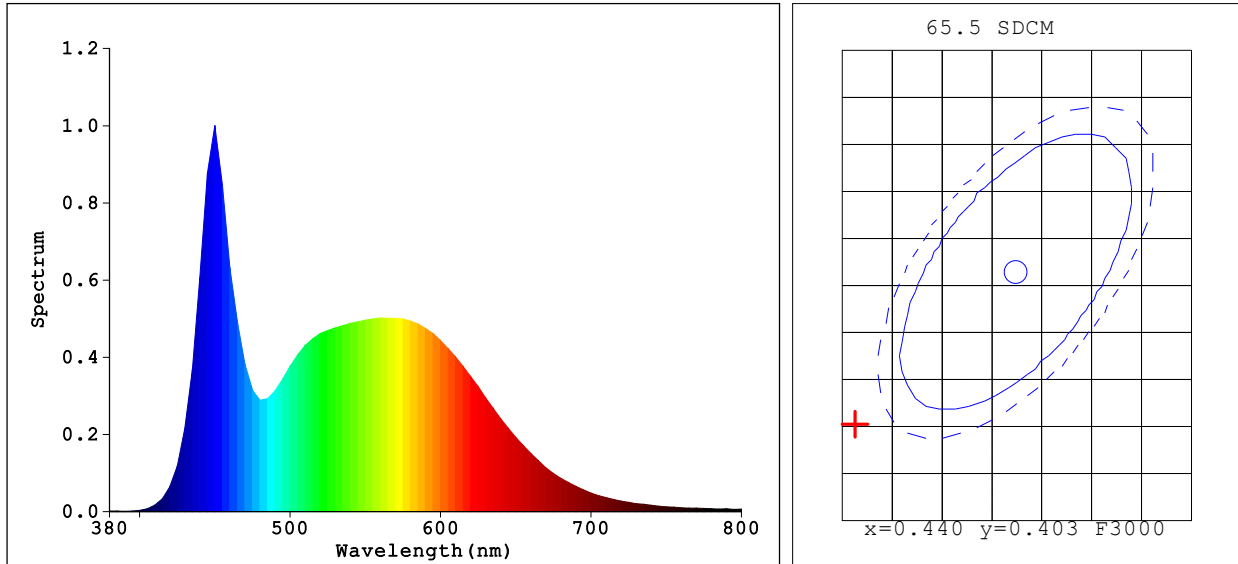
Instrument Status:

Scan Range:380.0nm-800.0nm Interval:5.0nm[0] $I_p=8744$ (G=2,D=54)
 REF=10307 (R=2) $\%=-0.059\%$ PMT: 34.9 centigrade [150.0]

Product Type:8008路灯-150
 Number:55
 Temperature:25.3 deg
 Test Operator:DAMIN
 Software:V2.00.125

Manufacturer:
 Test Department:
 Humidity:65.0%
 Test Date:2020-09-30 16:02:07
 Instrument:PMS-80_V1 (SN:11070007)

Light Source Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3104$ $y=0.3264$
 Chromaticity Coordinate: $u'=0.1972$ $v'=0.4666$ ($duv=3.01e-03$)
 Tc=6652K Dominant WL:Ld=487.7nm Purity=8.3% Centroid WL:537.0nm
 Ratio:R=14.5% G=80.1% B=5.4% Peak WL:Lp=450.0nm HWL:26.9nm
 Render Index:Ra=83.7
 R1 =82 R2 =88 R3 =91 R4 =84 R5 =83 R6 =83 R7 =88
 R8 =70 R9 =8 R10=71 R11=83 R12=63 R13=83 R14=95 R15=77

Photo Parameters:

Flux: 25743 lm Fe: 84.412 W Efficacy:128.4 lm/W

Electrical Parameters:

Luminaire: U=218.8V I=0.9327A P=200.5W PF=0.9823

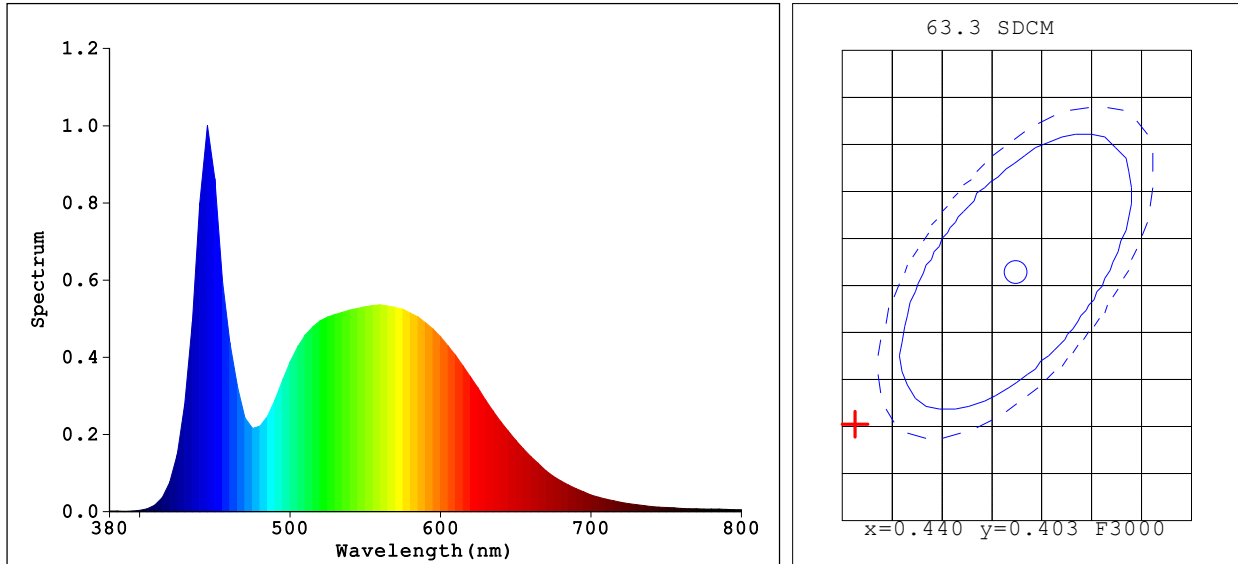
Instrument Status:

Scan Range:380.0nm-800.0nm Interval:5.0nm[0] $I_p=13004$ (G=2,D=54)
 REF=12724 (R=2) $\%=-0.071\%$ PMT: 34.9 centigrade [150.0]

Product Type:8008路灯-200
 Number:56
 Temperature:25.3 deg
 Test Operator:DAMIN
 Software:V2.00.125

Manufacturer:
 Test Department:
 Humidity:65.0%
 Test Date:2020-09-30 16:18:59
 Instrument:PMS-80_V1 (SN:11070007)

Light Source Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3169$ $y=0.3419$
 Chromaticity Coordinate: $u'=0.1959$ $v'=0.4757$ ($duv=7.65e-03$)
 Tc=6214K Dominant WL:Ld=498.5nm Purity=5.1% Centroid WL:540.0nm
 Ratio:R=13.9% G=81.7% B=4.4% Peak WL:Lp=445.0nm HWL:22.9nm
 Render Index:Ra=78.4
 R1 =75 R2 =81 R3 =88 R4 =79 R5 =78 R6 =77 R7 =85
 R8 =64 R9 =-16 R10=58 R11=79 R12=60 R13=76 R14=94 R15=68

Photo Parameters:

Flux: 7139.5 lm Fe: 22.343 W Efficacy:145.0 lm/W

Electrical Parameters:

Luminaire: U=219.0V I=0.2414A P=49.23W PF=0.9309

Instrument Status:

Scan Range:380.0nm-800.0nm Interval:5.0nm[0] $I_p=18512$ (G=3,D=55)
 REF=34873 (R=3) $\%=-0.646\%$ PMT: 34.9 centigrade [150.0]

Product Type:8008路灯-50
 Number:57
 Temperature:25.3 deg
 Test Operator:DAMIN
 Software:V2.00.125

Manufacturer:
 Test Department:
 Humidity:65.0%
 Test Date:2020-09-30 16:22:44
 Instrument:PMS-80_V1 (SN:11070007)