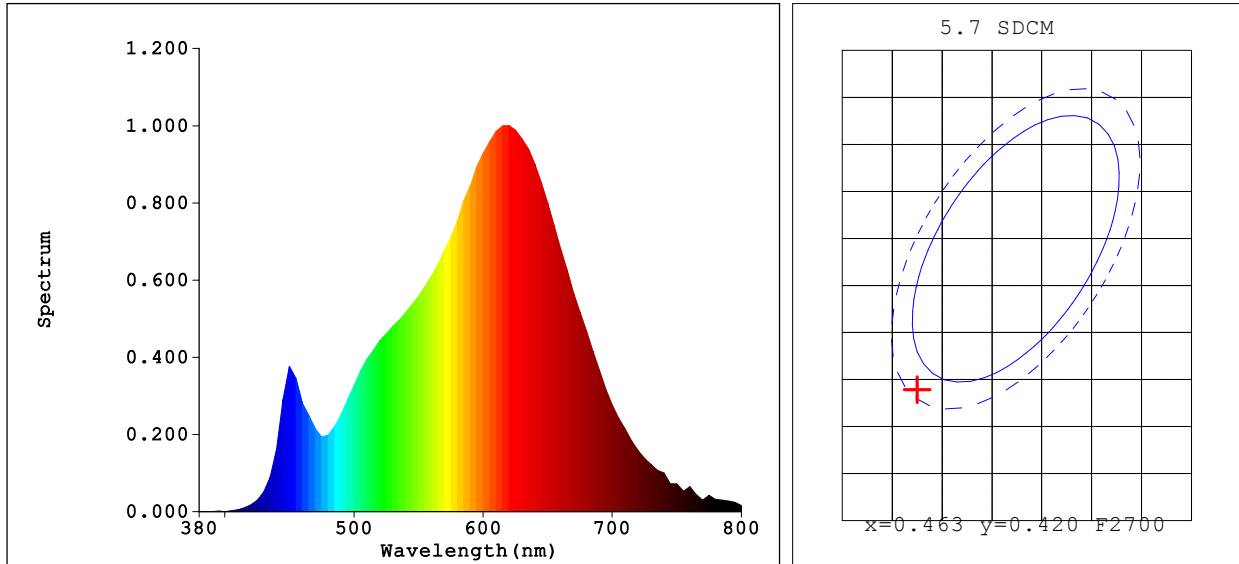


**Plant optics Test Report**



**Colorimetric Parameters:**

Chromaticity Coordinate: x=0.4545 y=0.4079/u'=0.2602 v'=0.5255 (duv=-5.20e-04)

Tc=2756K Dominant WL:Ld=584.0nm Purity=58.9% Centroid WL:604.0nm

Ratio:R=27.7% G=70.0% B=2.3% Peak WL:Lp=620.0nm HWL:140.6nm

Render Index:Ra=91.8 AvgR=89.2

R1 =92 R2 =97 R3 =98 R4 =92 R5 =93 R6 =97 R7 =89

R8 =77 R9 =50 R10=93 R11=94 R12=86 R13=94 R14=100 R15=86

**Photometric Parameters:**

Flux: 799.17 lm Fe: 2.7521 W Efficacy:90.19 lm/W

**Electrical Parameters:**

Luminaire: U=120.1V I=0.07672A P=8.861W PF=0.9617 Freq=60.01Hz

Product Type:SDL-5CCT-4-WH-1P  
 Number:1  
 Temperature:25.3 deg  
 Test Operator:YANG  
 Software:V3.00.101  
 Remarks:

Manufacturer:Magic Lite/NSL  
 Test Department:Signcomplex  
 Humidity:65.0%  
 Test Date:2024-06-05 15:28:35  
 Instrument:PMS-2000 (SN:M628147CD1401120)

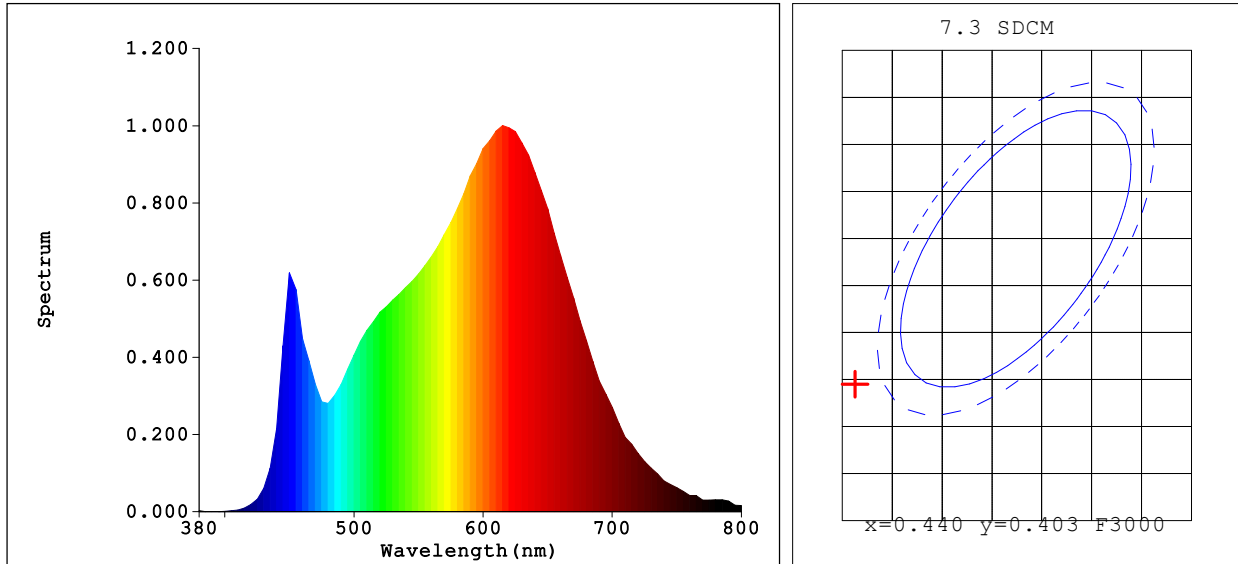
**Plant Parameters:**

Flux(lm): 799.2	Qv(lm.s): 799.2
Spectral radiance(W/nm): 2.752	Qe(J): 2.752
Flux(W): 2.577	Far-red flux(W): 0.1636
Efficiency: 0.2908	Effi-fr: 0.01846
Kp(PPE) (umol/J): 1.429	Kfr: 0.1126
Erb_Ratio: 4.268	Flux_b(W): 2.741
Flux_UV(W): 0.0001364	Flux_fr(W): 0.1636
PPF.t(umol): 12.66	Kp(umol/s/W): 1.429
Photon flux_fr(umol/s): 0.9979	Flux(400-700)(W): 2.577
Flux(380-780)(W): 2.732	Flux_ch-A(W): 0.4422
Flux_ch-A.t(J): 0.4422	Flux_ch-B(W): 0.4084
Flux_ch-B.t(J): 0.4084	Flux_b(W): 0.2961
Flux_b.t(J): 0.2961	Flux_y(W): 1.016
Flux_y.t(J): 1.016	Flux_r(W) : 1.264
Flux_r.t(J): 1.264	
PPF(400-700) (umol/s): 12.66	PPF(400-500) (umol/s): 1.152
PPF(500-600) (umol/s): 4.74	PPF(600-700) (umol/s): 6.77
PPF(200-800) (umol/s): --	PPF(280-800) (umol/s): --

Product Type:SDL-5CCT-4-WH-1P  
Number:1  
Temperature:25.3 deg  
Test Operator:YANG  
Software:V3.00.101  
Remarks:

Manufacturer:Magic Lite/NSL  
Test Department:Signcomplex  
Humidity:65.0%  
Test Date:2024-06-05 15:28:35  
Instrument:PMS-2000 (SN:M628147CD1401120)

**Plant optics Test Report**



**Colorimetric Parameters:**

Chromaticity Coordinate:  $x=0.4255$   $y=0.3914$  /  $u'=0.2486$   $v'=0.5146$  ( $duv=-3.50e-03$ )

Tc=3096K Dominant WL:Ld=583.0nm Purity=45.2% Centroid WL:595.0nm

Ratio:R=25.8% G=71.2% B=3.0% Peak WL:Lp=615.0nm HWL:158.0nm

Render Index:Ra=93.4 AvgR=91.4

R1 =95 R2 =99 R3 =97 R4 =94 R5 =96 R6 =96 R7 =90

R8 =81 R9 =60 R10=97 R11=96 R12=84 R13=97 R14=99 R15=91

**Photometric Parameters:**

Flux: 852.04 lm Fe: 2.9304 W Efficacy:98.00 lm/W

**Electrical Parameters:**

Luminaire: U=120.0V I=0.07544A P=8.694W PF=0.9607 Freq=60.01Hz

Product Type:SDL-5CCT-4-WH-1P  
 Number:2  
 Temperature:25.3 deg  
 Test Operator:YANG  
 Software:V3.00.101  
 Remarks:

Manufacturer:Magic Lite/NSL  
 Test Department:Signcomplex  
 Humidity:65.0%  
 Test Date:2024-06-05 15:30:07  
 Instrument:PMS-2000 (SN:M628147CD1401120)

**Plant Parameters:**

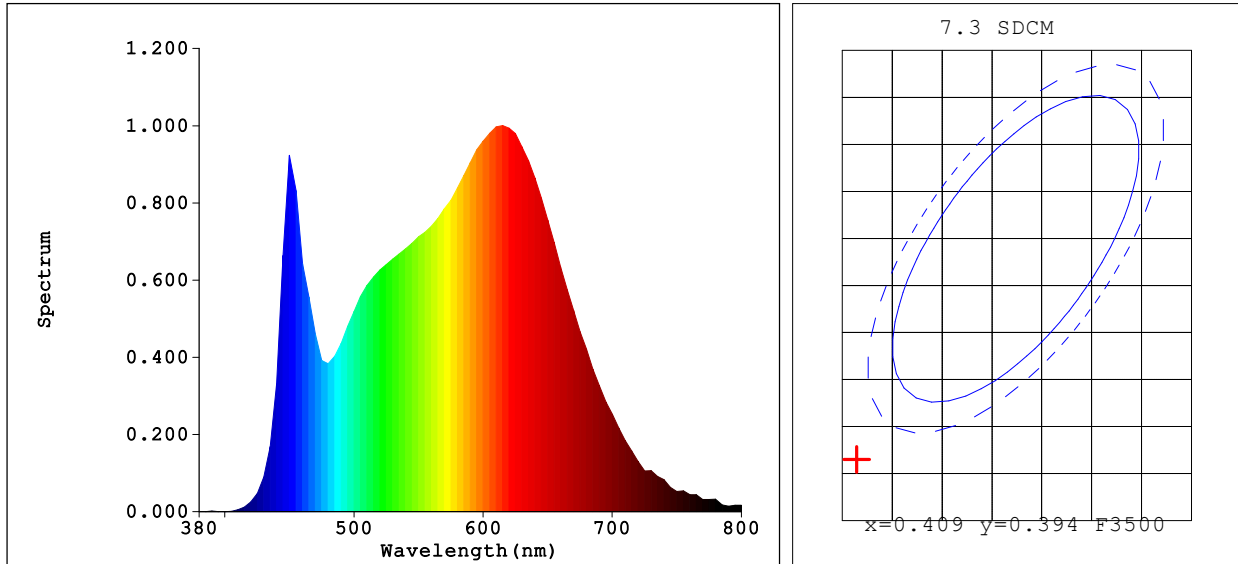
Flux(lm): 852.0	Qv(lm.s): 852.0
Spectral radiance(W/nm): 2.930	Qe(J): 2.930
Flux(W): 2.769	Far-red flux(W): 0.1493
Efficiency: 0.3185	Effi-fr: 0.01717
Kp(PPE) (umol/J): 1.542	Kfr: 0.1046
Erb_Ratio: 2.876	Flux_b(W): 2.918
Flux_UV(W): 0.0001891	Flux_fr(W): 0.1493
PPF.t(umol): 13.41	Kp(umol/s/W): 1.542
Photon flux_fr(umol/s): 0.9097	Flux(400-700)(W): 2.769
Flux(380-780)(W): 2.91	Flux_ch-A(W): 0.4461
Flux_ch-A.t(J): 0.4461	Flux_ch-B(W): 0.4832
Flux_ch-B.t(J): 0.4832	Flux_b(W): 0.4298
Flux_b.t(J): 0.4298	Flux_y(W): 1.103
Flux_y.t(J): 1.103	Flux_r(W) : 1.236
Flux_r.t(J): 1.236	
PPF(400-700) (umol/s): 13.41	PPF(400-500) (umol/s): 1.67
PPF(500-600) (umol/s): 5.126	PPF(600-700) (umol/s): 6.616
PPF(200-800) (umol/s): --	PPF(280-800) (umol/s): --

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Product Type:SDL-5CCT-4-WH-1P  
Number:2  
Temperature:25.3 deg  
Test Operator:YANG  
Software:V3.00.101  
Remarks:

Manufacturer:Magic Lite/NSL  
Test Department:Signcomplex  
Humidity:65.0%  
Test Date:2024-06-05 15:30:07  
Instrument:PMS-2000 (SN:M628147CD1401120)

**Plant optics Test Report**



**Colorimetric Parameters:**

Chromaticity Coordinate:  $x=0.3952$   $y=0.3760$  /  $u'=0.2352$   $v'=0.5034$  ( $duv=-4.33e-03$ )

Tc=3610K Dominant WL:Ld=582.0nm Purity=31.4% Centroid WL:584.0nm

Ratio:R=23.4% G=72.8% B=3.8% Peak WL:Lp=615.0nm HWL:174.3nm

Render Index:Ra=94.6 AvgR=92.7

R1 =97 R2 =99 R3 =98 R4 =96 R5 =97 R6 =95 R7 =92

R8 =85 R9 =68 R10=98 R11=97 R12=81 R13=98 R14=100 R15=94

**Photometric Parameters:**

Flux: 898.11 lm Fe: 3.0744 W Efficacy:105.8 lm/W

**Electrical Parameters:**

Luminaire: U=120.0V I=0.07374A P=8.485W PF=0.9592 Freq=60.01Hz

Product Type:SDL-5CCT-4-WH-1P  
 Number:3  
 Temperature:25.3 deg  
 Test Operator:YANG  
 Software:V3.00.101  
 Remarks:

Manufacturer:Magic Lite/NSL  
 Test Department:Signcomplex  
 Humidity:65.0%  
 Test Date:2024-06-05 15:31:34  
 Instrument:PMS-2000 (SN:M628147CD1401120)

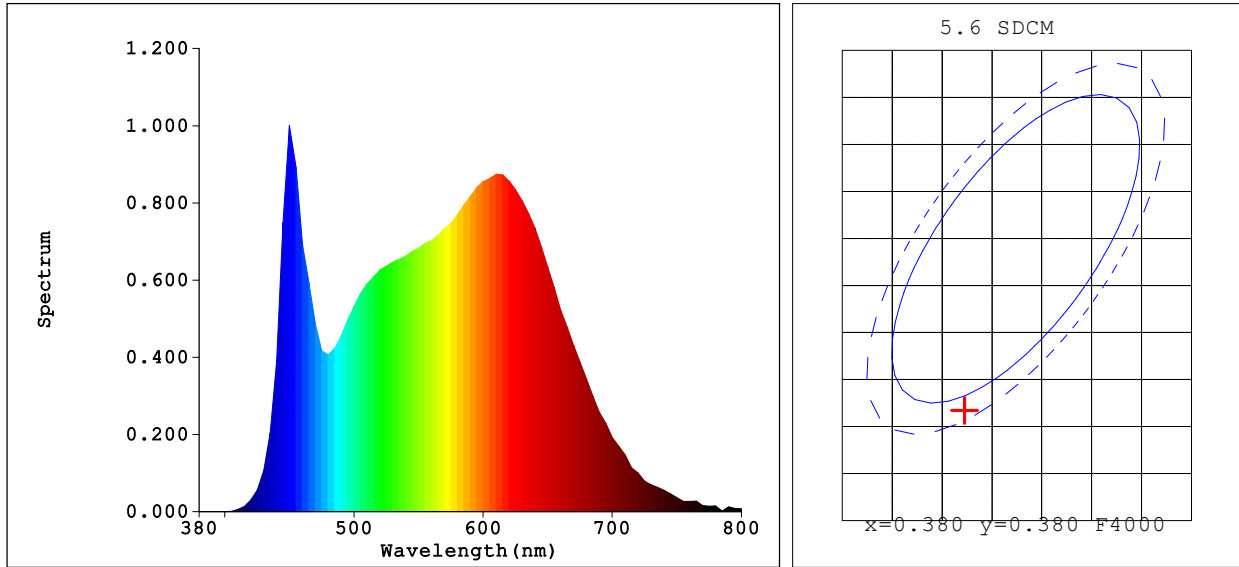
**Plant Parameters:**

Flux(lm): 898.1	Qv(lm.s): 898.1
Spectral radiance(W/nm): 3.074	Qe(J): 3.074
Flux(W): 2.93	Far-red flux(W): 0.1318
Efficiency: 0.3453	Effi-fr: 0.01553
Kp(PPE) (umol/J): 1.645	Kfr: 0.09463
Erb_Ratio: 1.989	Flux_b(W): 3.062
Flux_UV(W): 0.0001584	Flux_fr(W): 0.1318
PPF.t(umol): 13.96	Kp(umol/s/W): 1.645
Photon flux_fr(umol/s): 0.803	Flux(400-700)(W): 2.93
Flux(380-780)(W): 3.056	Flux_ch-A(W): 0.4369
Flux_ch-A.t(J): 0.4369	Flux_ch-B(W): 0.5581
Flux_ch-B.t(J): 0.5581	Flux_b(W): 0.5821
Flux_b.t(J): 0.5821	Flux_y(W): 1.19
Flux_y.t(J): 1.19	Flux_r(W) : 1.157
Flux_r.t(J): 1.157	PPF(400-500)(umol/s): 2.257
PPF(400-700)(umol/s): 13.96	PPF(600-700)(umol/s): 6.19
PPF(500-600)(umol/s): 5.513	PPF(280-800)(umol/s): --
PPF(200-800)(umol/s): --	

Product Type:SDL-5CCT-4-WH-1P  
Number:3  
Temperature:25.3 deg  
Test Operator:YANG  
Software:V3.00.101  
Remarks:

Manufacturer:Magic Lite/NSL  
Test Department:Signcomplex  
Humidity:65.0%  
Test Date:2024-06-05 15:31:34  
Instrument:PMS-2000 (SN:M628147CD1401120)

**Plant optics Test Report**



**Colorimetric Parameters:**

Chromaticity Coordinate:  $x=0.3756$   $y=0.3662$  /  $u'=0.2262$   $v'=0.4961$  ( $duv=-3.60e-03$ )

Tc=4058K Dominant WL:Ld=581.0nm Purity=22.6% Centroid WL:574.0nm

Ratio:R=21.7% G=74.0% B=4.3% Peak WL:Lp=450.0nm HWL:27.8nm

Render Index:Ra=94.7 AvgR=92.6

R1 =96 R2 =99 R3 =98 R4 =95 R5 =96 R6 =95 R7 =92

R8 =86 R9 =68 R10=97 R11=97 R12=78 R13=98 R14=100 R15=94

**Photometric Parameters:**

Flux: 909.69 lm Fe: 3.0797 W Efficacy:106.4 lm/W

**Electrical Parameters:**

Luminaire: U=120.0V I=0.07423A P=8.546W PF=0.9598 Freq=60.01Hz

Product Type:SDL-5CCT-4-WH-1P  
 Number:4  
 Temperature:25.3 deg  
 Test Operator:YANG  
 Software:V3.00.101  
 Remarks:

Manufacturer:Magic Lite/NSLTest  
 Department:Signcomplex  
 Humidity:65.0%  
 Test Date:2024-06-05 15:33:02  
 Instrument:PMS-2000 (SN:M628147CD1401120)

**Plant Parameters:**

Flux(lm): 909.7	Qv(lm.s): 909.7
Spectral radiance(W/nm): 3.080	Qe(J): 3.080
Flux(W): 2.968	Far-red flux(W): 0.09969
Efficiency: 0.3473	Effi-fr: 0.01166
Kp(PPE) (umol/J): 1.635	Kfr: 0.07075
Erb_Ratio: 1.561	Flux_b(W): 3.067
Flux_UV(W): 0	Flux_fr(W): 0.09969
PPF.t(umol): 13.97	Kp(umol/s/W): 1.635
Photon flux_fr(umol/s): 0.6046	Flux(400-700)(W): 2.968
Flux(380-780)(W): 3.064	Flux_ch-A(W): 0.4196
Flux_ch-A.t(J): 0.4196	Flux_ch-B(W): 0.5964
Flux_ch-B.t(J): 0.5964	Flux_b(W): 0.6802
Flux_b.t(J): 0.6802	Flux_y(W): 1.226
Flux_y.t(J): 1.226	Flux_r(W) : 1.061
Flux_r.t(J): 1.061	PPF(400-500)(umol/s): 2.634
PPF(400-700)(umol/s): 13.97	PPF(600-700)(umol/s): 5.669
PPF(500-600)(umol/s): 5.668	PPF(280-800)(umol/s): --
PPF(200-800)(umol/s): --	

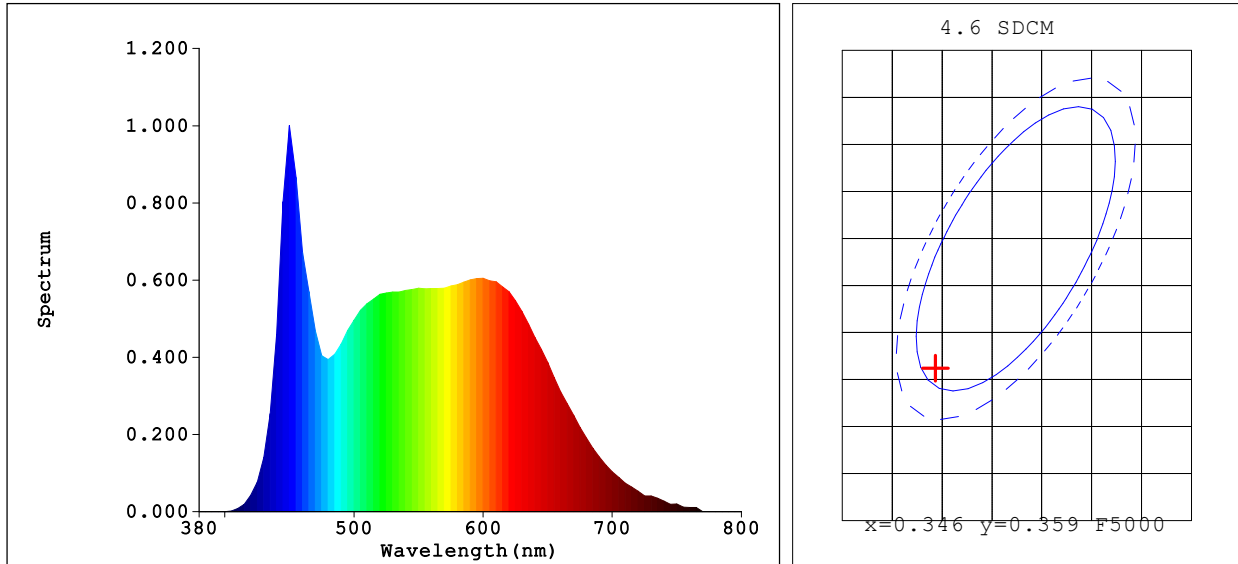
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Product Type:SDL-5CCT-4-WH-1P  
Number:4  
Temperature:25.3 deg  
Test Operator:YANG  
Software:V3.00.101  
Remarks:

Manufacturer:Magic Lite/NSL  
Test Department:Signcomplex  
Humidity:65.0%  
Test Date:2024-06-05 15:33:02  
Instrument:PMS-2000 (SN:M628147CD1401120)



**Plant optics Test Report**



**Colorimetric Parameters:**

Chromaticity Coordinate:  $x=0.3391$   $y=0.3488$  /  $u'=0.2084$   $v'=0.4824$  ( $duv=1.06e-03$ )

Tc=5230K Dominant WL:Ld=567.0nm Purity=6.4% Centroid WL:553.0nm

Ratio:R=18.1% G=76.7% B=5.2% Peak WL:Lp=450.0nm HWL:27.8nm

Render Index:Ra=92.9 AvgR=89.7

R1 =93 R2 =97 R3 =97 R4 =94 R5 =94 R6 =94 R7 =92

R8 =83 R9 =55 R10=91 R11=95 R12=77 R13=95 R14=99 R15=90

**Photometric Parameters:**

Flux: 886.71 lm Fe: 2.9600 W Efficacy:100.4 lm/W

**Electrical Parameters:**

Luminaire: U=120.0V I=0.07652A P=8.830W PF=0.9620 Freq=60.01Hz

Product Type:SDL-5CCT-4-WH-1P  
 Number:5  
 Temperature:25.3 deg  
 Test Operator:YANG  
 Software:V3.00.101  
 Remarks:

Manufacturer:Magic Lite/NSL  
 Test Department:Signcomplex  
 Humidity:65.0%  
 Test Date:2024-06-05 15:34:29  
 Instrument:PMS-2000 (SN:M628147CD1401120)

**Plant Parameters:**

Flux(lm): 886.7	Qv(lm.s): 886.7
Spectral radiance(W/nm): 2.960	Qe(J): 2.960
Flux(W): 2.889	Far-red flux(W): 0.05923
Efficiency: 0.3272	Effi-fr: 0.006707
Kp(PPE) (umol/J): 1.502	Kfr: 0.04043
Erb_Ratio: 0.9735	Flux_b(W): 2.948
Flux_UV(W): 0	Flux_fr(W): 0.05923
PPF.t(umol): 13.27	Kp(umol/s/W): 1.502
Photon flux_fr(umol/s): 0.357	Flux(400-700)(W): 2.889
Flux(380-780)(W): 2.948	Flux_ch-A(W): 0.3668
Flux_ch-A.t(J): 0.3668	Flux_ch-B(W): 0.6364
Flux_ch-B.t(J): 0.6364	Flux_b(W): 0.837
Flux_b.t(J): 0.837	Flux_y(W): 1.237
Flux_y.t(J): 1.237	Flux_r(W) : 0.8148
Flux_r.t(J): 0.8148	
PPF(400-700) (umol/s): 13.27	PPF(400-500) (umol/s): 3.233
PPF(500-600) (umol/s): 5.698	PPF(600-700) (umol/s): 4.338
PPF(200-800) (umol/s): --	PPF(280-800) (umol/s): --

Product Type:SDL-5CCT-4-WH-1P  
Number:5  
Temperature:25.3 deg  
Test Operator:YANG  
Software:V3.00.101  
Remarks:

Manufacturer:Magic Lite/NSL  
Test Department:Signcomplex  
Humidity:65.0%  
Test Date:2024-06-05 15:34:29  
Instrument:PMS-2000 (SN:M628147CD1401120)