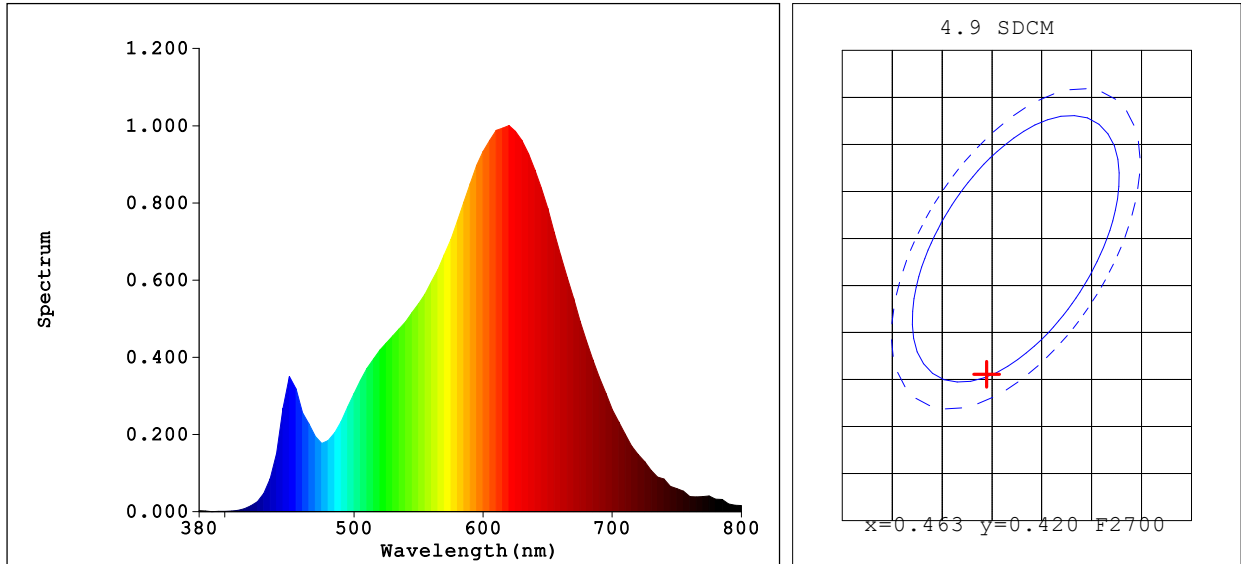


**Plant optics Test Report****Colorimetric Parameters:**Chromaticity Coordinate:  $x=0.4605$   $y=0.4093$  /  $u'=0.2635$   $v'=0.5269$  ( $duv=-5.46e-04$ )

Tc=2681K Dominant WL:Ld=584.0nm Purity=61.1% Centroid WL:604.0nm

Ratio:R=28.2% G=69.6% B=2.2% Peak WL:Lp=620.0nm HWL:132.8nm

Render Index:Ra=90.5 AvgR=87.7

R1 =91 R2 =96 R3 =97 R4 =91 R5 =91 R6 =97 R7 =88

R8 =74 R9 =44 R10=92 R11=92 R12=86 R13=92 R14=99 R15=84

**Photometric Parameters:**

Flux: 1137.0 lm Fe: 3.8774 W Efficacy:93.41 lm/W

**Electrical Parameters:**

Luminaire: U=120.0V I=0.1041A P=12.17W PF=0.9743 Freq=60.01Hz

Product Type:SDL-5CCT-6-WH-1P  
Number:6  
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 15:36:57  
Instrument:PMS-2000 (SN:M628147CD1401120)

**Plant Parameters:**

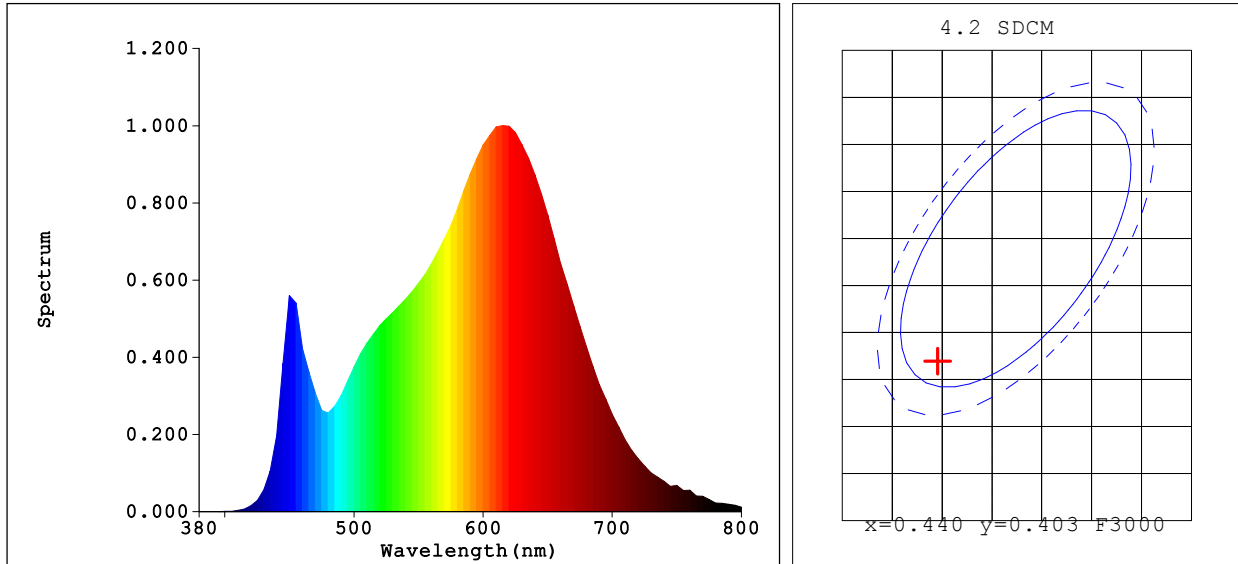
Flux(lm): 1137	Qv(lm.s): 1137
Spectral radiance(W/nm): 3.877	Qe(J): 3.877
Flux(W): 3.644	Far-red flux(W): 0.2171
Efficiency: 0.2993	Effi-fr: 0.01784
Kp(PPE) (umol/J): 1.473	Kfr: 0.1087
Erb_Ratio: 4.553	Flux_b(W): 3.861
Flux_UV(W): 0.0005187	Flux_fr(W): 0.2171
PPF.t(umol): 17.93	Kp(umol/s/W): 1.473
Photon flux_fr(umol/s): 1.323	Flux(400-700)(W): 3.644
Flux(380-780)(W): 3.85	Flux_ch-A(W): 0.6261
Flux_ch-A.t(J): 0.6261	Flux_ch-B(W): 0.5726
Flux_ch-B.t(J): 0.5726	Flux_b(W): 0.3969
Flux_b.t(J): 0.3969	Flux_y(W): 1.439
Flux_y.t(J): 1.439	Flux_r(W) : 1.807
Flux_r.t(J): 1.807	
PPF(400-700) (umol/s): 17.93	PPF(400-500) (umol/s): 1.545
PPF(500-600) (umol/s): 6.719	PPF(600-700) (umol/s): 9.672
PPF(200-800) (umol/s): --	PPF(280-800) (umol/s): --

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Product Type:SDL-5CCT-6-WH-1P  
Number:6  
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 15:36:57  
Instrument:PMS-2000 (SN:M628147CD1401120)

**Plant optics Test Report**



**Colorimetric Parameters:**

Chromaticity Coordinate:  $x=0.4333$   $y=0.3934$  /  $u'=0.2528$   $v'=0.5165$  ( $duv=-3.82e-03$ )

Tc=2974K Dominant WL:Ld=584.0nm Purity=48.1% Centroid WL:597.0nm

Ratio:R=26.4% G=70.7% B=2.9% Peak WL:Lp=615.0nm HWL:148.0nm

Render Index:Ra=91.9 AvgR=89.7

R1 =94 R2 =98 R3 =96 R4 =92 R5 =94 R6 =95 R7 =88

R8 =77 R9 =53 R10=96 R11=94 R12=84 R13=95 R14=99 R15=89

**Photometric Parameters:**

Flux: 1204.4 lm Fe: 4.1099 W Efficacy:100.1 lm/W

**Electrical Parameters:**

Luminaire: U=120.0V I=0.1029A P=12.03W PF=0.9739 Freq=60.01Hz

Product Type:SDL-5CCT-6-WH-1P  
 Number:7  
 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 15:38:25  
 Instrument:PMS-2000 (SN:M628147CD1401120)

**Plant Parameters:**

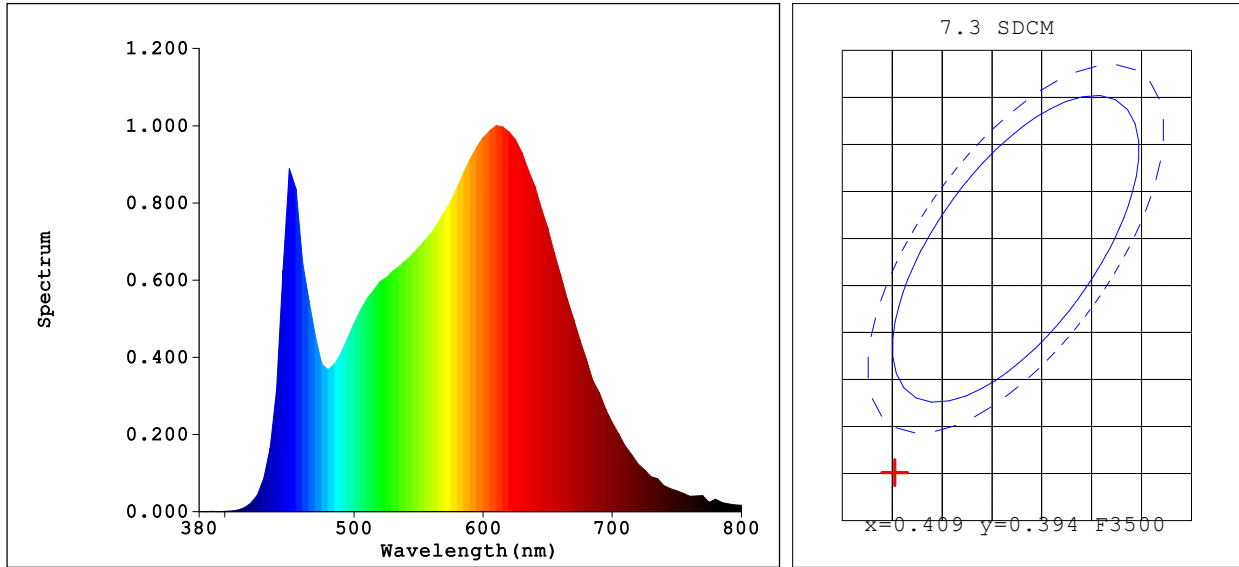
Flux(lm): 1204	Qv(lm.s): 1204
Spectral radiance(W/nm): 4.110	Qe(J): 4.110
Flux(W): 3.888	Far-red flux(W): 0.2053
Efficiency: 0.3232	Effi-fr: 0.01706
Kp(PPE) (umol/J): 1.57	Kfr: 0.104
Erb_Ratio: 3.096	Flux_b(W): 4.093
Flux_UV(W): 5.286e-005	Flux_fr(W): 0.2053
PPF.t(umol): 18.88	Kp(umol/s/W): 1.57
Photon flux_fr(umol/s): 1.251	Flux(400-700)(W): 3.888
Flux(380-780)(W): 4.084	Flux_ch-A(W): 0.6284
Flux_ch-A.t(J): 0.6284	Flux_ch-B(W): 0.6707
Flux_ch-B.t(J): 0.6707	Flux_b(W): 0.571
Flux_b.t(J): 0.571	Flux_y(W): 1.549
Flux_y.t(J): 1.549	Flux_r(W) : 1.767
Flux_r.t(J): 1.767	
PPF(400-700) (umol/s): 18.88	PPF(400-500) (umol/s): 2.219
PPF(500-600) (umol/s): 7.212	PPF(600-700) (umol/s): 9.454
PPF(200-800) (umol/s): --	PPF(280-800) (umol/s): --

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Product Type:SDL-5CCT-6-WH-1P  
Number:7  
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 15:38:25  
Instrument:PMS-2000 (SN:M628147CD1401120)

**Plant optics Test Report**



**Colorimetric Parameters:**

Chromaticity Coordinate: x=0.3985 y=0.3748/u'=0.2379 v'=0.5034 (duv=-5.63e-03)

Tc=3520K Dominant WL:Ld=583.0nm Purity=32.1% Centroid WL:584.0nm

Ratio:R=23.7% G=72.5% B=3.7% Peak WL:Lp=610.0nm HWL:168.0nm

Render Index:Ra=93.2 AvgR=91.3

R1 =96 R2 =98 R3 =96 R4 =94 R5 =96 R6 =94 R7 =90

R8 =82 R9 =61 R10=98 R11=95 R12=81 R13=97 R14=99 R15=92

**Photometric Parameters:**

Flux: 1277.7 lm Fe: 4.3458 W Efficacy:108.8 lm/W

**Electrical Parameters:**

Luminaire: U=120.0V I=0.1006A P=11.75W PF=0.9729 Freq=60.01Hz

Product Type:SDL-5CCT-6-WH-1P  
 Number:8  
 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 15:39:52  
 Instrument:PMS-2000 (SN:M628147CD1401120)

**Plant Parameters:**

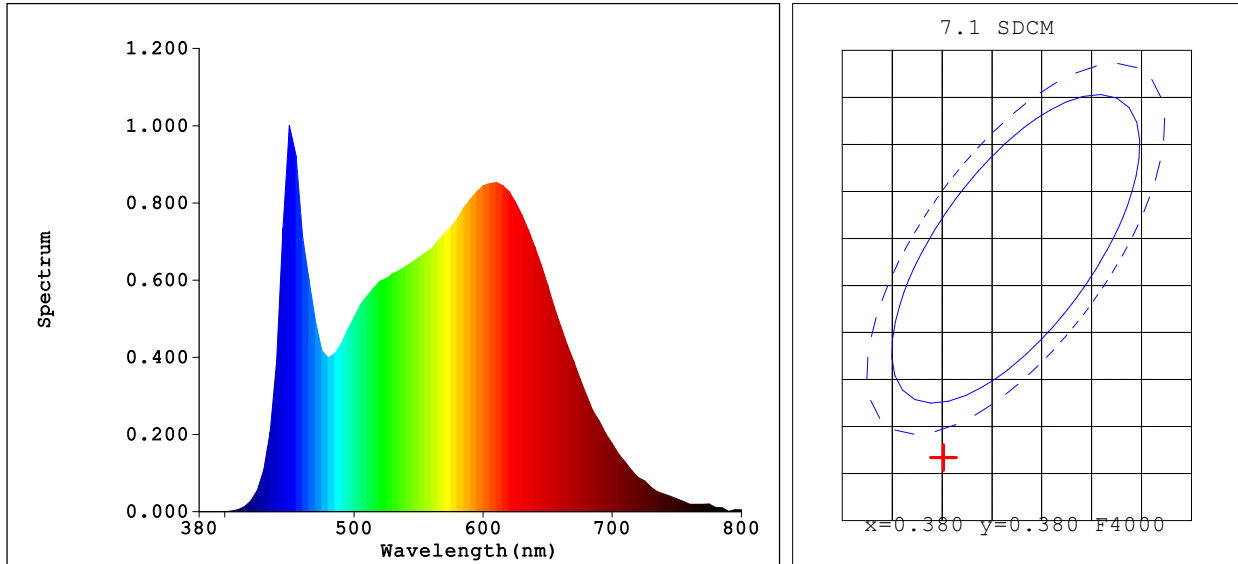
Flux(lm): 1278	Qv(lm.s): 1278
Spectral radiance(W/nm): 4.346	Qe(J): 4.346
Flux(W): 4.147	Far-red flux(W): 0.1805
Efficiency: 0.3531	Effi-fr: 0.01537
Kp(PPE) (umol/J): 1.683	Kfr: 0.09375
Erb_Ratio: 2.004	Flux_b(W): 4.328
Flux_UV(W): 0.0002234	Flux_fr(W): 0.1805
PPF.t(umol): 19.77	Kp(umol/s/W): 1.683
Photon flux_fr(umol/s): 1.101	Flux(400-700)(W): 4.147
Flux(380-780)(W): 4.318	Flux_ch-A(W): 0.6155
Flux_ch-A.t(J): 0.6155	Flux_ch-B(W): 0.794
Flux_ch-B.t(J): 0.794	Flux_b(W): 0.8193
Flux_b.t(J): 0.8193	Flux_y(W): 1.686
Flux_y.t(J): 1.686	Flux_r(W) : 1.642
Flux_r.t(J): 1.642	PPF(400-500)(umol/s): 3.177
PPF(400-700)(umol/s): 19.77	PPF(600-700)(umol/s): 8.77
PPF(500-600)(umol/s): 7.822	PPF(280-800)(umol/s): --
PPF(200-800)(umol/s): --	

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Product Type:SDL-5CCT-6-WH-1P  
Number:8  
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 15:39:52  
Instrument:PMS-2000 (SN:M628147CD1401120)

**Plant optics Test Report**



**Colorimetric Parameters:**

Chromaticity Coordinate:  $x=0.3737$   $y=0.3621$   $u'=0.2266$   $v'=0.4940$  ( $duv=-5.01e-03$ )

Tc=4082K Dominant WL:Ld=582.0nm Purity=20.8% Centroid WL:572.0nm

Ratio:R=21.6% G=74.1% B=4.4% Peak WL:Lp=450.0nm HWL:28.1nm

Render Index:Ra=93.5 AvgR=91.2

R1 =95 R2 =98 R3 =97 R4 =94 R5 =95 R6 =94 R7 =91

R8 =83 R9 =62 R10=97 R11=95 R12=77 R13=97 R14=100 R15=93

**Photometric Parameters:**

Flux: 1292.4 lm Fe: 4.3450 W Efficacy:108.7 lm/W

**Electrical Parameters:**

Luminaire: U=120.0V I=0.1017A P=11.89W PF=0.9735 Freq=60.01Hz

Product Type:SDL-5CCT-6-WH-1P  
 Number:9  
 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 15:41:20  
 Instrument:PMS-2000 (SN:M628147CD1401120)

**Plant Parameters:**

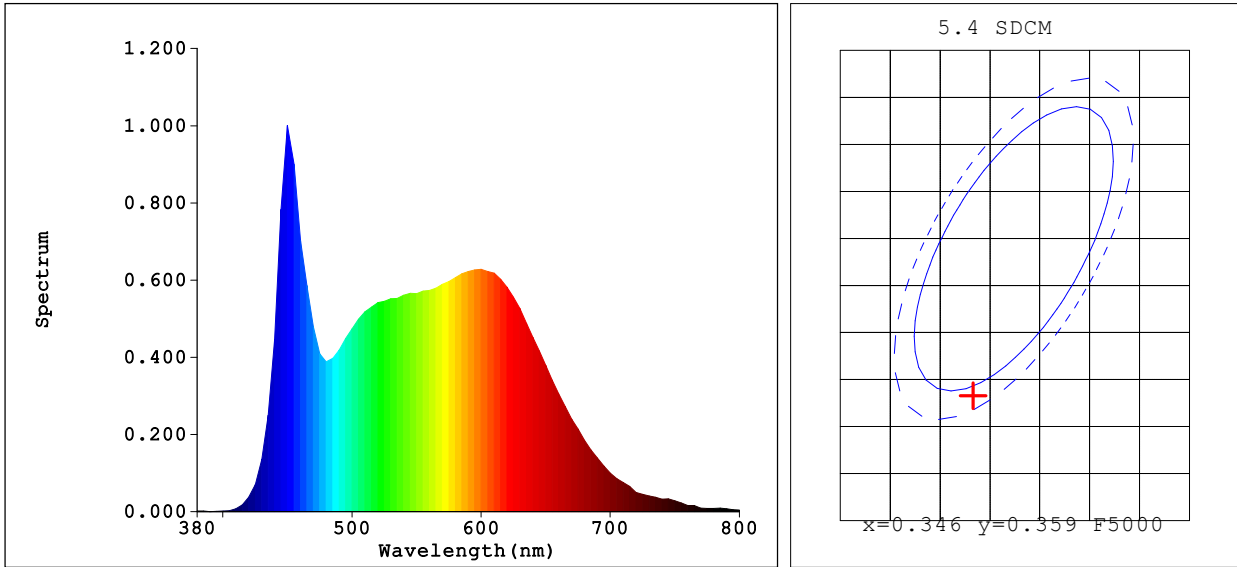
Flux(lm): 1292	Qv(lm.s): 1292
Spectral radiance(W/nm): 4.345	Qe(J): 4.345
Flux(W): 4.197	Far-red flux(W): 0.1305
Efficiency: 0.353	Effi-fr: 0.01097
Kp(PPE) (umol/J): 1.657	Kfr: 0.06654
Erb_Ratio: 1.473	Flux_b(W): 4.328
Flux_UV(W): 0	Flux_fr(W): 0.1305
PPF.t(umol): 19.7	Kp(umol/s/W): 1.657
Photon flux_fr(umol/s): 0.7913	Flux(400-700)(W): 4.197
Flux(380-780)(W): 4.325	Flux_ch-A(W): 0.5796
Flux_ch-A.t(J): 0.5796	Flux_ch-B(W): 0.8616
Flux_ch-B.t(J): 0.8616	Flux_b(W): 0.9932
Flux_b.t(J): 0.9932	Flux_y(W): 1.741
Flux_y.t(J): 1.741	Flux_r(W) : 1.462
Flux_r.t(J): 1.462	PPF(400-500)(umol/s): 3.844
PPF(400-700)(umol/s): 19.7	PPF(600-700)(umol/s): 7.8
PPF(500-600)(umol/s): 8.059	PPF(280-800)(umol/s): --
PPF(200-800)(umol/s): --	

Product Type:SDL-5CCT-6-WH-1P  
Number:9  
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 15:41:20  
Instrument:PMS-2000 (SN:M628147CD1401120)



**Plant optics Test Report**



**Colorimetric Parameters:**

Chromaticity Coordinate: x=0.3425 y=0.3464/u'=0.2117 v'=0.4817 (duv=-1.57e-03)

Tc=5084K Dominant WL:Ld=573.0nm Purity=6.7% Centroid WL:555.0nm

Ratio:R=18.6% G=76.2% B=5.2% Peak WL:Lp=450.0nm HWL:28.2nm

Render Index:Ra=92.4 AvgR=89.3

R1 =93 R2 =97 R3 =97 R4 =93 R5 =94 R6 =93 R7 =91

R8 =81 R9 =52 R10=92 R11=94 R12=77 R13=95 R14=99 R15=90

**Photometric Parameters:**

Flux: 1251.2 lm Fe: 4.1886 W Efficacy:102.7 lm/W

**Electrical Parameters:**

Luminaire: U=120.0V I=0.1042A P=12.19W PF=0.9747 Freq=60.01Hz

Product Type:SDL-5CCT-6-WH-1P  
 Number:10  
 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 15:42:47  
 Instrument:PMS-2000 (SN:M628147CD1401120)

**Plant Parameters:**

Flux(lm): 1251	Qv(lm.s): 1251
Spectral radiance(W/nm): 4.189	Qe(J): 4.189
Flux(W): 4.072	Far-red flux(W): 0.09889
Efficiency: 0.3342	Effi-fr: 0.008114
Kp(PPE) (umol/J): 1.535	Kfr: 0.04939
Erb_Ratio: 0.9825	Flux_b(W): 4.172
Flux_UV(W): 0.0005811	Flux_fr(W): 0.09889
PPF.t(umol): 18.71	Kp(umol/s/W): 1.535
Photon flux_fr(umol/s): 0.6019	Flux(400-700)(W): 4.072
Flux(380-780)(W): 4.168	Flux_ch-A(W): 0.513
Flux_ch-A.t(J): 0.513	Flux_ch-B(W): 0.9061
Flux_ch-B.t(J): 0.9061	Flux_b(W): 1.178
Flux_b.t(J): 1.178	Flux_y(W): 1.735
Flux_y.t(J): 1.735	Flux_r(W) : 1.158
Flux_r.t(J): 1.158	
PPF(400-700) (umol/s): 18.71	PPF(400-500) (umol/s): 4.552
PPF(500-600) (umol/s): 8.003	PPF(600-700) (umol/s): 6.16
PPF(200-800) (umol/s): --	PPF(280-800) (umol/s): --

Product Type:SDL-5CCT-6-WH-1P  
Number:10  
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 15:42:47  
Instrument:PMS-2000 (SN:M628147CD1401120)