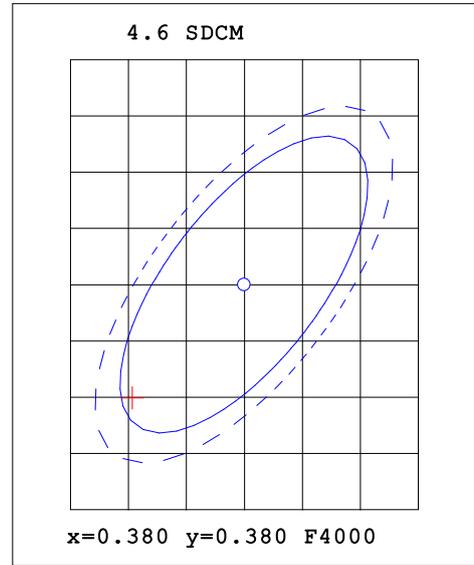
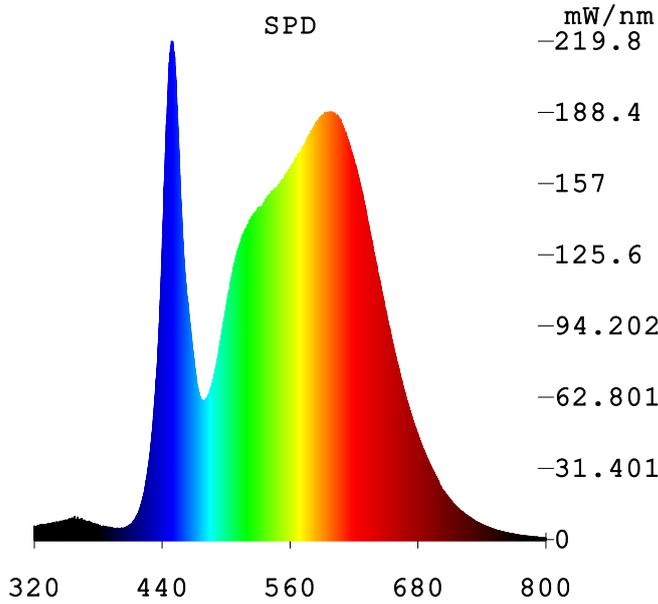


Spectrum Test Report



Plant Parameters WL (nm)

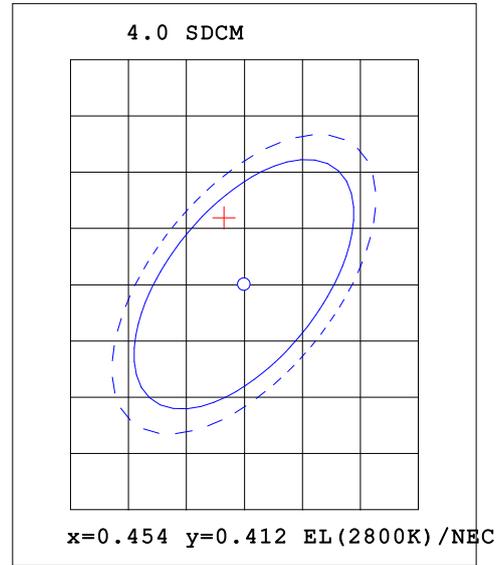
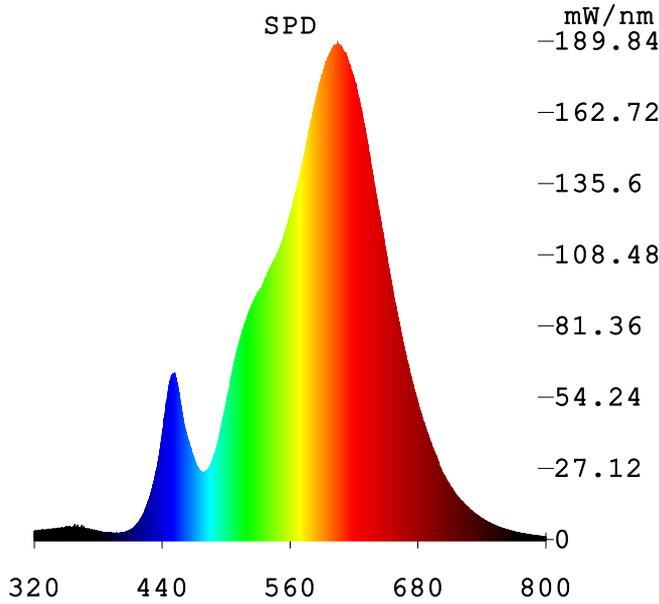
Radiometry System:

| | |
|---------------------------------|------------------------------|
| $\Phi_v(lm)$: 10313 | $Q_v(lm.s)$: 11275 |
| $\Phi_{e,\lambda}(W)$: 0.06863 | $Q_e(J)$: 34.32 |
| $\Phi_e(W)$: 35.68 | η_b : 0.3695 |
| η_{uv} : 0.006164 | η_e : 0.3554 |
| η_{fr} : 0.007912 | Φ_{rb_Ratio} : 0.08266 |
| $\Phi_{e,b}(W)$: 35.68 | $\Phi_{e,uv}(W)$: 0.5953 |
| $\Phi_{e,fr}(W)$: 0.7641 | $\Phi_r(W)$: 35.17 |
| $\Phi_{ch-A}(W)$: 4.585 | $Q_{ch-A}(J)$: 4.585 |
| $\Phi_{ch-B}(W)$: 7.004 | $Q_{ch-B}(J)$: 7.004 |
| $\Phi_{b-p}(W)$: 15.69 | $Q_{b-p}(J)$: 15.69 |
| $\Phi_{y-g}(W)$: 10.52 | $Q_{y-g}(J)$: 10.52 |
| $\Phi_{r-o}(W)$: 1.297 | $Q_{r-o}(J)$: 1.297 |
| Quantum System: | |
| PPF($\mu mol/s$): 159.5 | R/FR: 1.697 |
| Numol(μmol): 159.5 | PPE($\mu mol/s/W$): 1.652 |
| KFr($\mu mol/s/W$): 0.04811 | |

Color Parameters:

Chromaticity Coordinate: $x = 0.3703$ $y = 0.3699$
 CCT = 4241K (Duv = -0.0002) Dominant WL:Ld = 578.2nm
 Purity = 22.1% Ra = 85.8
 R1 = 84.9 R2 = 90.3 R3 = 94.3 R4 = 86.2 R5 = 85.0
 R6 = 86.7 R7 = 88.2 R8 = 70.4 R9 = 21.0 R10 = 76.7
 R11 = 86.2 R12 = 67.4 R13 = 86.2 R14 = 96.8 R15 = 79.4
 Electric:U = 229.92 V I = 0.7061 A P = 96.57 W PF = 0.5948
 Eff = 106.8 lm/W Kdisp = 0.9488
 $\lambda_p = 449.7nm$ FWHM = 24.4nm
 Status: Integral T = 55 ms $I_p = 34990$ (53%)

Spectrum Test Report



Plant Parameters WL (nm)

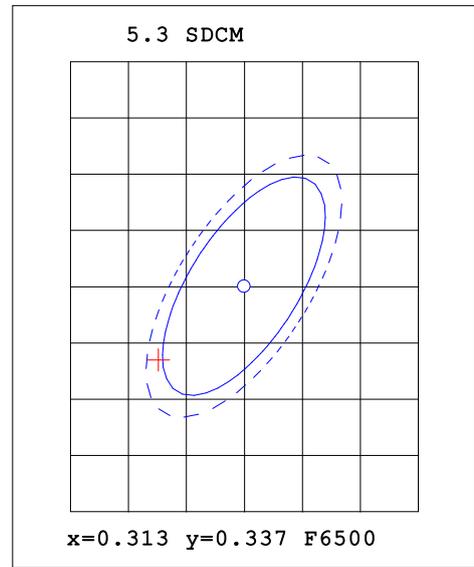
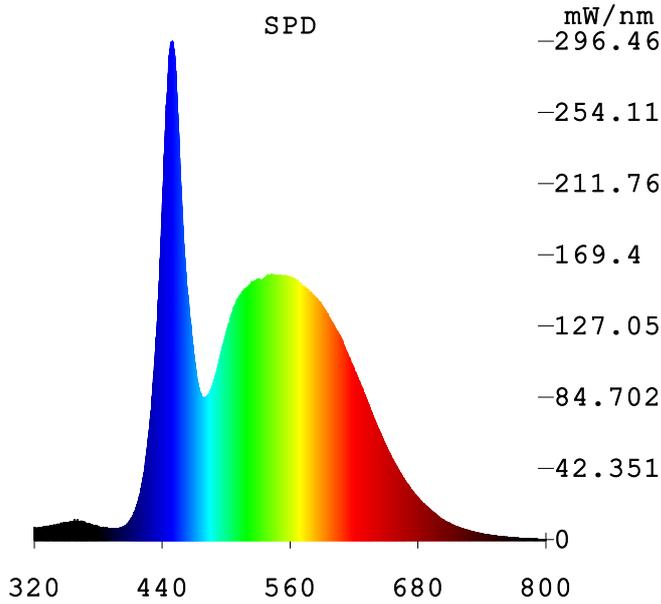
Radiometry System:

| | |
|---------------------------------|-----------------------------|
| $\Phi_v(lm)$: 9994 | $Q_v(lm.s)$: 8986 |
| $\Phi_{e,\lambda}(W)$: 0.05233 | $Q_e(J)$: 26 |
| $\Phi_e(W)$: 27.21 | η_b : 0.2696 |
| η_{uv} : 0.003182 | η_e : 0.2576 |
| η_{fr} : 0.008795 | Φ_{rb_Ratio} : 0.3179 |
| $\Phi_{e,b}(W)$: 27.21 | $\Phi_{e,uv}(W)$: 0.3211 |
| $\Phi_{e,fr}(W)$: 0.8875 | $\Phi_r(W)$: 26.91 |
| $\Phi_{ch-A}(W)$: 3.998 | $Q_{ch-A}(J)$: 3.998 |
| $\Phi_{ch-B}(W)$: 4.046 | $Q_{ch-B}(J)$: 4.046 |
| $\Phi_{b-p}(W)$: 11.85 | $Q_{b-p}(J)$: 11.85 |
| $\Phi_{y-g}(W)$: 11.18 | $Q_{y-g}(J)$: 11.18 |
| $\Phi_{r-o}(W)$: 3.767 | $Q_{r-o}(J)$: 3.767 |
| Quantum System: | |
| PPF(umol/s): 126.2 | R/FR: 4.245 |
| Numol(umol): 126.2 | PPE(umol/s/W): 1.25 |
| KFr(umol/s/W): 0.0535 | |

Color Parameters:

| | |
|--|--------------------------|
| Chromaticity Coordinate: $x = 0.4523$ $y = 0.4179$ | |
| CCT = 2867K(Duv = 0.0034) | Dominant WL:Ld = 582.3nm |
| Purity = 61.2% | Ra = 81.7 |
| R1 = 79.4 R2 = 88.6 R3 = 97.5 R4 = 80.8 R5 = 79.1 | |
| R6 = 86.4 R7 = 83.9 R8 = 57.7 R9 = 2.1 R10 = 74.2 | |
| R11 = 80.2 R12 = 68.3 R13 = 81.3 R14 = 98.6 R15 = 71.0 | |
| Electric:U = 229.92 V I = 0.7369 A P = 100.9 W PF = 0.5956 | |
| Eff = 99.05 lm/W Kdisp = 0.9455 | |
| $\lambda_p = 604.5nm$ | FWHM = 126.3nm |
| Status: Integral T = 55 ms | $I_p = 33842 (52\%)$ |

Spectrum Test Report



Plant Parameters

Radiometry System:

$\Phi_v(lm)$: 10145

$\Phi_{e,\lambda}(W)$: 0.06487

$\Phi_e(W)$: 33.73

η_{uv} : 0.007042

η_{fr} : 0.004228

$\Phi_{e,b}(W)$: 33.73

$\Phi_{e,fr}(W)$: 0.4285

$\Phi_{ch-A}(W)$: 3.99

$\Phi_{ch-B}(W)$: 7.964

$\Phi_{b-p}(W)$: 14.84

$\Phi_{y-g}(W)$: 6.252

$\Phi_{r-o}(W)$: 0.544

Quantum System:

PPF($\mu mol/s$): 145.1

Numol(μmol): 145.1

KFr($\mu mol/s/W$): 0.02571

Color Parameters:

Chromaticity Coordinate: $x = 0.3056$ $y = 0.3305$

$CCT = 6883K$ (Duv = 0.0076)

Purity = 9.6%

R1 = 78.6 R2 = 85.1 R3 = 90.3 R4 = 82.0 R5 = 80.6

R6 = 81.2 R7 = 88.2 R8 = 68.9 R9 = 0.0 R10 = 65.6

R11 = 81.1 R12 = 61.9 R13 = 80.1 R14 = 94.9 R15 = 73.0

Electric: U = 230.05 V I = 0.7411 A P = 101.4 W PF = 0.5945

Eff = 100.1 lm/W Kdisp = 0.9450

$\lambda_p = 449.7nm$

Status: Integral T = 55 ms

$Q_v(lm.s)$: 10145

$Q_e(J)$: 32.59

η_b : 0.3328

η_e : 0.3215

Φ_{rb_Ratio} : 0.03664

$\Phi_{e,uv}(W)$: 0.7137

$\Phi_r(W)$: 33.14

$Q_{ch-A}(J)$: 3.99

$Q_{ch-B}(J)$: 7.964

$Q_{b-p}(J)$: 14.84

$Q_{y-g}(J)$: 6.252

$Q_{r-o}(J)$: 0.544

R/FR: 1.269

PPE($\mu mol/s/W$): 1.432

Dominant WL:Ld = 490.4nm

Ra = 81.9

FWHM = 26.9nm

$I_p = 33703$ (51%)