

Lightsource Test Report

Product Infomation

Product Category: RFE-0167A-6000K-3LING Product Number: 1

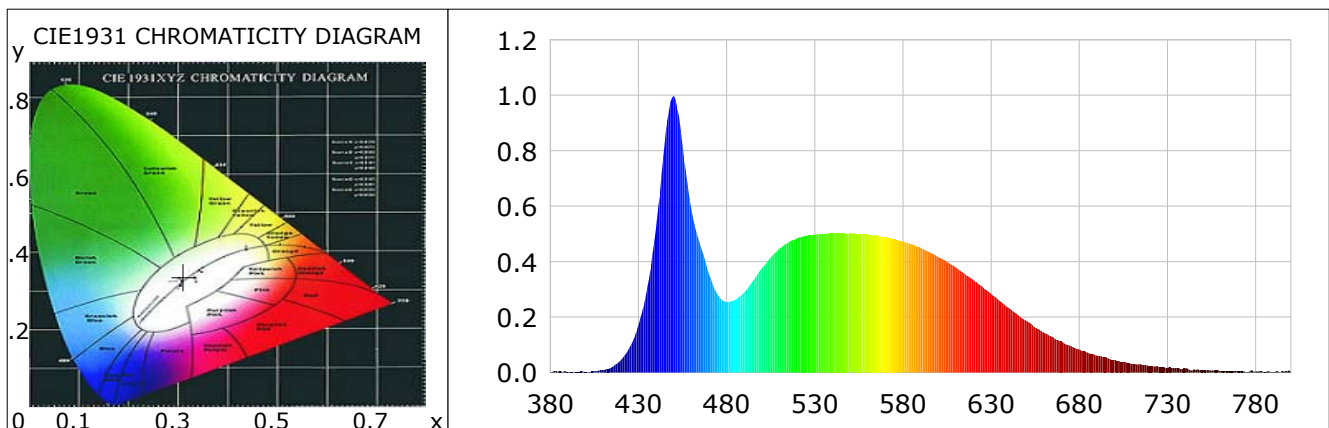
CIE Colorimetric Parameters

Chromaticity coordinates: $x=0.3101$ $y=0.3369$ $u(u')=0.1931$ $v=0.3147$ $v'=0.4721$
 CCT: $T_c=6584K$ ($duv=0.00848$) Color Ratio: $R=0.127$ $G=0.817$ $B=0.055$
 Peak Wavelength: 449.8nm Half Bandwidth: 23.5nm
 Dominant Wavelength: 493.7nm Color Purity: 0.076
 CRI: $R_a=83.5$ TM30: $R_f=81$, $R_g=94$

R1 =81	R2 =83	R3 =83	R4 =88	R5 =82	R6 =77	R7 =92	R8 =77
R9 =15	R10=59	R11=88	R12=50	R13=81	R14=91	R15=78	

 Color Quality Scale: $Q_a=82.6$, $Q_f=82.7$, $Q_p=82.2$, $Q_g=90.5$

Q1 =85	Q2 =98	Q3 =81	Q4 =73	Q5 =79	Q6 =81	Q7 =86	Q8 =92
Q9 =96	Q10=88	Q11=84	Q12=83	Q13=84	Q14=73	Q15=78	



Photometric Parameters

Luminous Flux: 1185.54 lm Efficiency: 112.37 lm/W Radiant Power: 3.777 W
 EEI: 0.12 Energy Efficiency Class: A+ (EU 874-2012)

Electric Parameters

Voltage: 220.00V Current: 0.0530A Power: 10.55W
 Power Factor: 0.9030 Frequency: 49.99Hz

Test Infomation

Scan Range: 380~800:1nm	Photometric Method: sphere-spectroradiometer
Stabilization Time: 30 Sec	Photometric Condition: Sphere diameter: 1.50m, 4T
Max of Signal: 50455 (4555)	CCD Integration Time: 450.66 ms

Condition: $T_x=30.6^{\circ}C$, $T_i=0.0^{\circ}C$, R.H.:60%
 Test Lab: LH-SYS
 Operator: LYF

Test Device: Inventfine CMS-2
 Test Time: 2002-01-01 04:03:19
 Inspector:

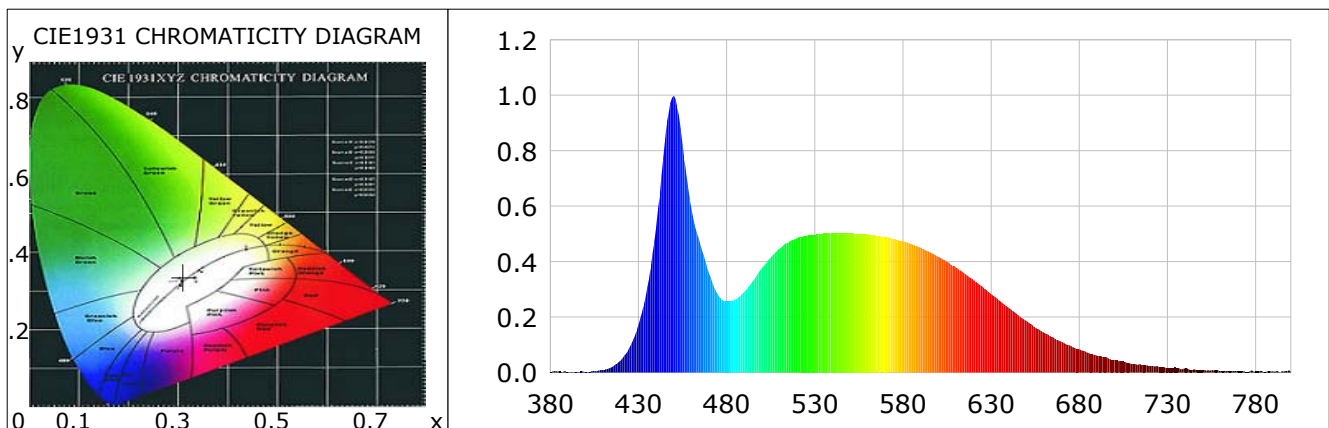
Lightsource Test Report

Product Infomation

Product Category: RFE-0167A-6000K-3LING Product Number: 2

CIE Colorimetric Parameters

Chromaticity coordinates: $x=0.3100$ $y=0.3367$ $u(u')=0.1931$ $v=0.3147$ $v'=0.4720$
 CCT: $T_c=6590K$ ($duv=0.00844$) Color Ratio: $R=0.127$ $G=0.817$ $B=0.055$
 Peak Wavelength: 449.9nm Half Bandwidth: 23.7nm
 Dominant Wavelength: 493.6nm Color Purity: 0.077
 CRI: $R_a=83.5$ TM30: $R_f=81$, $R_g=94$
 $R1=81$ $R2=83$ $R3=83$ $R4=88$ $R5=82$ $R6=77$ $R7=92$ $R8=77$
 $R9=15$ $R10=59$ $R11=88$ $R12=50$ $R13=81$ $R14=91$ $R15=78$
 Color Quality Scale: $Q_a=82.7$, $Q_f=82.8$, $Q_p=82.2$, $Q_g=90.5$
 $Q1=85$ $Q2=98$ $Q3=81$ $Q4=73$ $Q5=79$ $Q6=81$ $Q7=86$ $Q8=92$
 $Q9=96$ $Q10=88$ $Q11=84$ $Q12=83$ $Q13=84$ $Q14=74$ $Q15=78$



Photometric Parameters

Luminous Flux: 1188.00 lm Efficiency: 111.97 lm/W Radiant Power: 3.787 W
 EEI: 0.12 Energy Efficiency Class: A+ (EU 874-2012)

Electric Parameters

Voltage: 220.00V Current: 0.0530A Power: 10.61W
 Power Factor: 0.9050 Frequency: 49.99Hz

Test Infomation

Scan Range: 380~800:1nm Photometric Method: sphere-spectroradiometer
 Stabilization Time: 30 Sec Photometric Condition: Sphere diameter: 1.50m, 4T
 Max of Signal: 50543 (4554) CCD Integration Time: 450.66 ms

Condition: $T_x=30.6^\circ C$, $T_i=0.0^\circ C$, R.H.:60%
 Test Lab: LH-SYS
 Operator: LYF

Test Device: Inventfine CMS-2
 Test Time: 2002-01-01 04:03:59
 Inspector:

Lightsource Test Report

Product Information

Product Category: RFE-0167A-6000K-3LING Product Number: 3

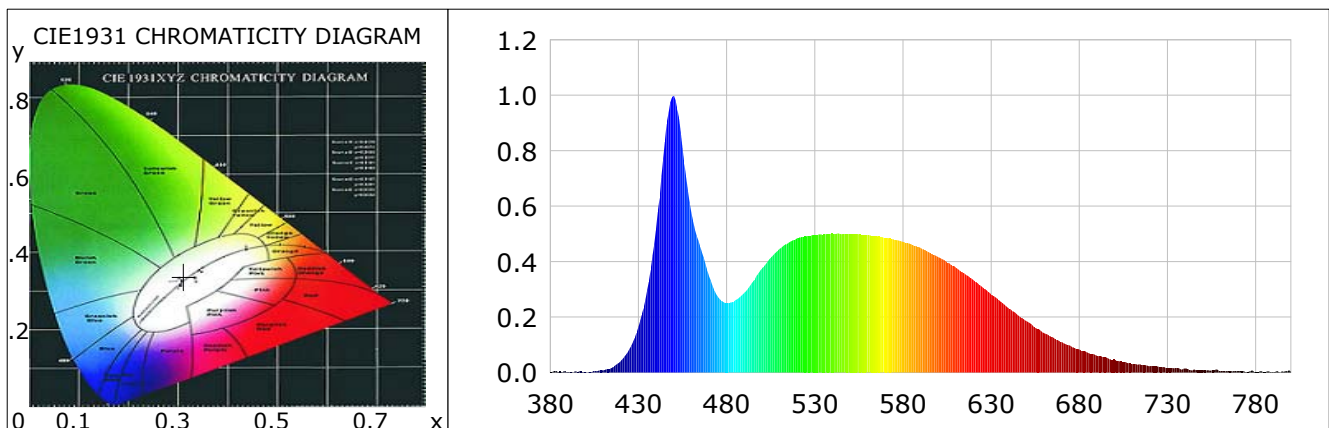
CIE Colorimetric Parameters

Chromaticity coordinates: $x=0.3108$ $y=0.3378$ $u(u')=0.1933$ $v=0.3151$ $v'=0.4727$
 CCT: $T_c=6540K$ ($duv=0.00860$) Color Ratio: $R=0.128$ $G=0.817$ $B=0.055$
 Peak Wavelength: 449.8nm Half Bandwidth: 23.0nm
 Dominant Wavelength: 494.3nm Color Purity: 0.073
 CRI: $R_a=83.4$ TM30: $R_f=81$, $R_g=94$

R1 =81	R2 =83	R3 =83	R4 =88	R5 =82	R6 =77	R7 =92	R8 =77
R9 =15	R10=59	R11=87	R12=50	R13=81	R14=91	R15=78	

 Color Quality Scale: $Q_a=82.6$, $Q_f=82.7$, $Q_p=82.1$, $Q_g=90.4$

Q1 =85	Q2 =98	Q3 =80	Q4 =73	Q5 =79	Q6 =81	Q7 =86	Q8 =92
Q9 =96	Q10=88	Q11=84	Q12=83	Q13=84	Q14=73	Q15=78	



Photometric Parameters

Luminous Flux: 1172.92 lm Efficiency: 111.60 lm/W Radiant Power: 3.727 W
 EEI: 0.12 Energy Efficiency Class: A+ (EU 874-2012)

Electric Parameters

Voltage: 220.00V Current: 0.0530A Power: 10.51W
 Power Factor: 0.9020 Frequency: 49.99Hz

Test Information

Scan Range: 380~800:1nm	Photometric Method: sphere-spectroradiometer
Stabilization Time: 30 Sec	Photometric Condition: Sphere diameter: 1.50m, 4T
Max of Signal: 50034 (4557)	CCD Integration Time: 450.66 ms

Condition: $T_x=30.7^\circ C$, $T_i=0.0^\circ C$, R.H.:60%
 Test Lab: LH-SYS
 Operator: LYF

Test Device: Inventfine CMS-2
 Test Time: 2002-01-01 04:06:40
 Inspector:

Lightsource Test Report

Product Infomation

Product Category: RFE-0167A-6000K-3LING Product Number: 4

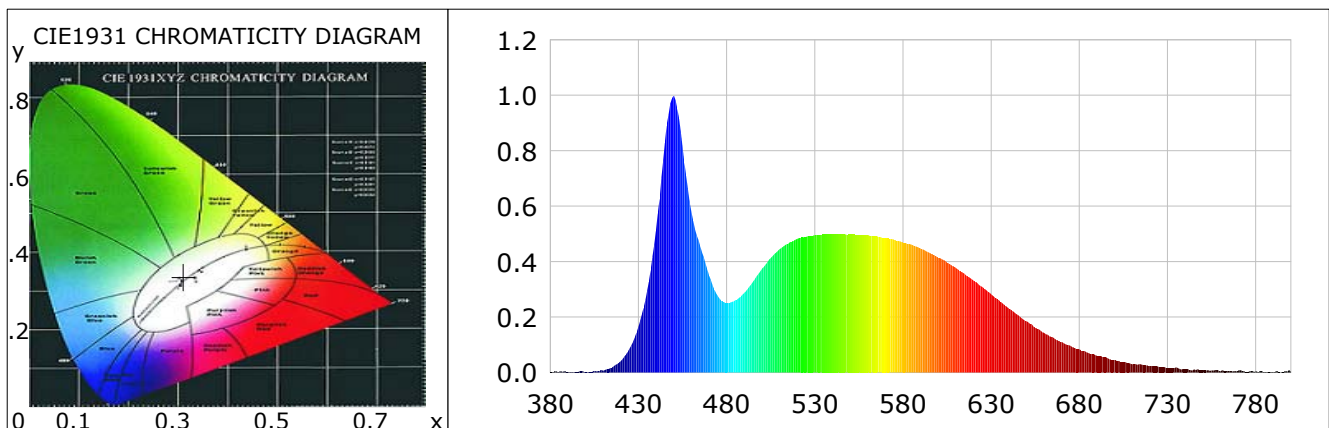
CIE Colorimetric Parameters

Chromaticity coordinates: $x=0.3106$ $y=0.3375$ $u(u')=0.1932$ $v=0.3150$ $v'(v')=0.4725$
 CCT: $T_c=6554K$ ($duv=0.00853$) Color Ratio: $R=0.128$ $G=0.817$ $B=0.055$
 Peak Wavelength: 449.9nm Half Bandwidth: 23.1nm
 Dominant Wavelength: 494.1nm Color Purity: 0.074
 CRI: $R_a=83.5$ TM30: $R_f=81$, $R_g=94$

R1 =81	R2 =83	R3 =83	R4 =88	R5 =82	R6 =77	R7 =92	R8 =77
R9 =15	R10=59	R11=88	R12=50	R13=81	R14=91	R15=78	

 Color Quality Scale: $Q_a=82.6$, $Q_f=82.8$, $Q_p=82.1$, $Q_g=90.4$

Q1 =85	Q2 =98	Q3 =80	Q4 =73	Q5 =79	Q6 =81	Q7 =86	Q8 =92
Q9 =96	Q10=88	Q11=84	Q12=83	Q13=84	Q14=73	Q15=78	



Photometric Parameters

Luminous Flux: 1172.28 lm Efficiency: 111.12 lm/W Radiant Power: 3.729 W
 EEI: 0.12 Energy Efficiency Class: A+ (EU 874-2012)

Electric Parameters

Voltage: 220.10V Current: 0.0530A Power: 10.55W
 Power Factor: 0.9010 Frequency: 49.99Hz

Test Infomation

Scan Range: 380~800:1nm	Photometric Method: sphere-spectroradiometer
Stabilization Time: 30 Sec	Photometric Condition: Sphere diameter: 1.50m, 4T
Max of Signal: 50145 (4555)	CCD Integration Time: 450.66 ms

Condition: $T_x=30.7^\circ C$, $T_i=0.0^\circ C$, R.H.:60%
 Test Lab: LH-SYS
 Operator: LYF

Test Device: Inventfine CMS-2
 Test Time: 2002-01-01 04:07:21
 Inspector:

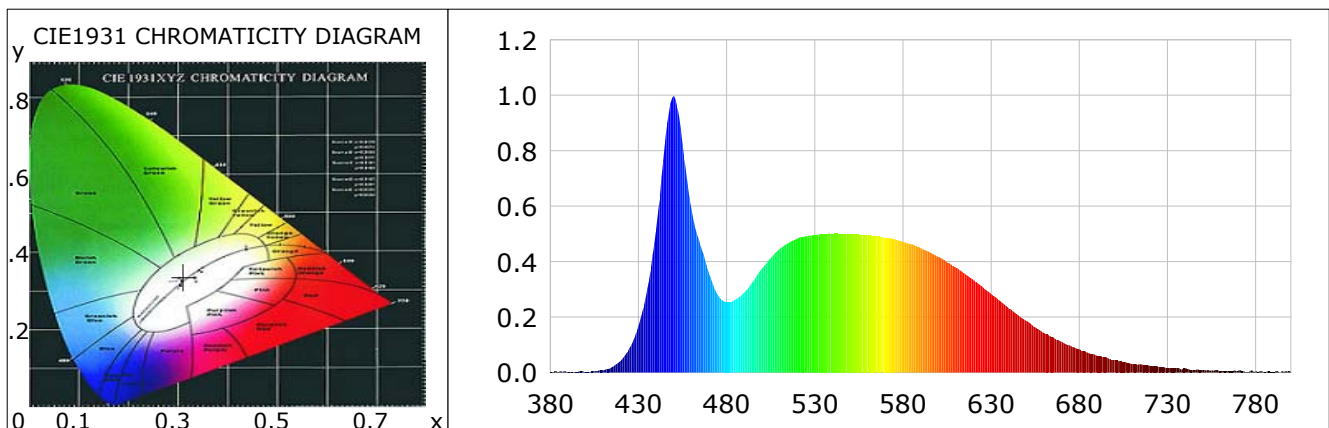
Lightsource Test Report

Product Information

Product Category: RFE-0167A-6000K-3LING Product Number: 5

CIE Colorimetric Parameters

Chromaticity coordinates: $x=0.3104$ $y=0.3370$ $u(u')=0.1933$ $v=0.3148$ $v'(v')=0.4722$
 CCT: $T_c=6570K$ ($duv=0.00838$) Color Ratio: $R=0.128$ $G=0.817$ $B=0.055$
 Peak Wavelength: 449.9nm Half Bandwidth: 23.4nm
 Dominant Wavelength: 493.7nm Color Purity: 0.075
 CRI: $R_a=83.6$ TM30: $R_f=81$, $R_g=94$
 $R_1=82$ $R_2=83$ $R_3=84$ $R_4=88$ $R_5=82$ $R_6=77$ $R_7=92$ $R_8=77$
 $R_9=16$ $R_{10}=59$ $R_{11}=88$ $R_{12}=50$ $R_{13}=81$ $R_{14}=91$ $R_{15}=78$
 Color Quality Scale: $Q_a=82.7$, $Q_f=82.8$, $Q_p=82.2$, $Q_g=90.5$
 $Q_1=85$ $Q_2=98$ $Q_3=81$ $Q_4=73$ $Q_5=79$ $Q_6=81$ $Q_7=86$ $Q_8=92$
 $Q_9=96$ $Q_{10}=88$ $Q_{11}=84$ $Q_{12}=84$ $Q_{13}=84$ $Q_{14}=74$ $Q_{15}=78$



Photometric Parameters

Luminous Flux: 1164.72 lm Efficiency: 110.19 lm/W Radiant Power: 3.710 W
 EEI: 0.12 Energy Efficiency Class: A+ (EU 874-2012)

Electric Parameters

Voltage: 219.90V Current: 0.0530A Power: 10.57W
 Power Factor: 0.9030 Frequency: 49.99Hz

Test Information

Scan Range: 380~800:1nm Photometric Method: sphere-spectroradiometer
 Stabilization Time: 30 Sec Photometric Condition: Sphere diameter: 1.50m, 4T
 Max of Signal: 49696 (4556) CCD Integration Time: 450.66 ms

Condition: $T_x=30.7^\circ C$, $T_i=0.0^\circ C$, R.H.:60%
 Test Lab: LH-SYS
 Operator: LYF

Test Device: Inventfine CMS-2
 Test Time: 2002-01-01 04:09:30
 Inspector:

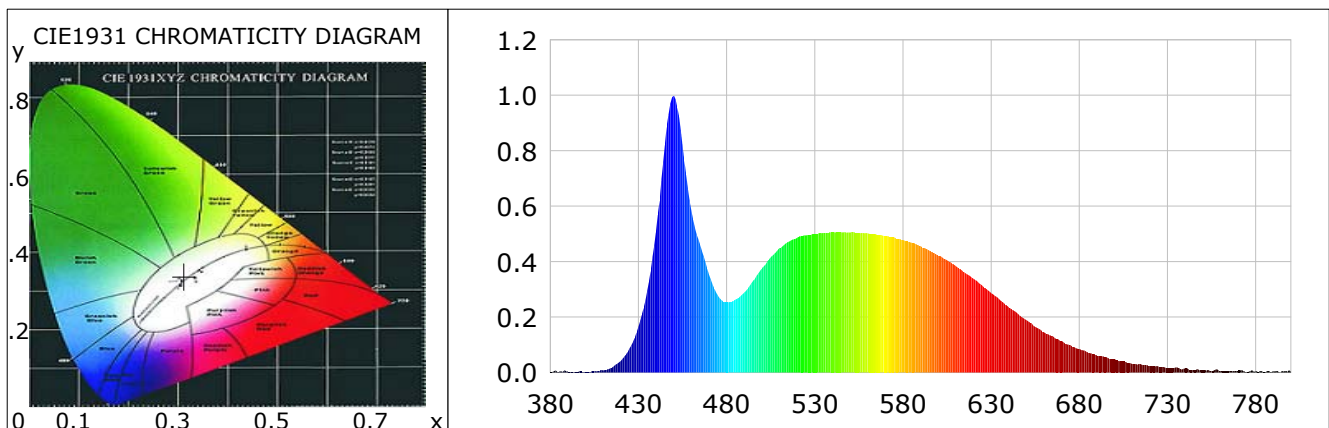
Lightsource Test Report

Product Information

Product Category: RFE-0167A-6000K-3LING Product Number: 6

CIE Colorimetric Parameters

Chromaticity coordinates: $x=0.3119$ $y=0.3389$ $u(u')=0.1936$ $v=0.3156$ $v'=0.4734$
 CCT: $T_c=6478K$ ($duv=0.00860$) Color Ratio: $R=0.128$ $G=0.817$ $B=0.055$
 Peak Wavelength: 449.8nm Half Bandwidth: 23.1nm
 Dominant Wavelength: 495.1nm Color Purity: 0.069
 CRI: $R_a=83.4$ TM30: $R_f=81$, $R_g=94$
 $R1=81$ $R2=83$ $R3=84$ $R4=88$ $R5=82$ $R6=77$ $R7=92$ $R8=77$
 $R9=14$ $R10=59$ $R11=87$ $R12=50$ $R13=81$ $R14=91$ $R15=78$
 Color Quality Scale: $Q_a=82.6$, $Q_f=82.7$, $Q_p=82.0$, $Q_g=90.4$
 $Q1=85$ $Q2=98$ $Q3=80$ $Q4=73$ $Q5=79$ $Q6=81$ $Q7=86$ $Q8=91$
 $Q9=96$ $Q10=88$ $Q11=84$ $Q12=83$ $Q13=84$ $Q14=73$ $Q15=78$



Photometric Parameters

Luminous Flux: 1108.74 lm Efficiency: 105.19 lm/W Radiant Power: 3.518 W
 EEI: 0.13 Energy Efficiency Class: A+ (EU 874-2012)

Electric Parameters

Voltage: 220.10V Current: 0.0530A Power: 10.54W
 Power Factor: 0.9040 Frequency: 50.00Hz

Test Information

Scan Range: 380~800:1nm
 Stabilization Time: 30 Sec
 Max of Signal: 44428 (4528)

Photometric Method: sphere-spectroradiometer
 Photometric Condition: Sphere diameter: 1.50m, 4T
 CCD Integration Time: 427.28 ms

Condition: $T_x=30.7^\circ C$, $T_i=0.0^\circ C$, R.H.:60%
 Test Lab: LH-SYS
 Operator: LYF

Test Device: Inventfine CMS-2
 Test Time: 2002-01-01 04:12:26
 Inspector:

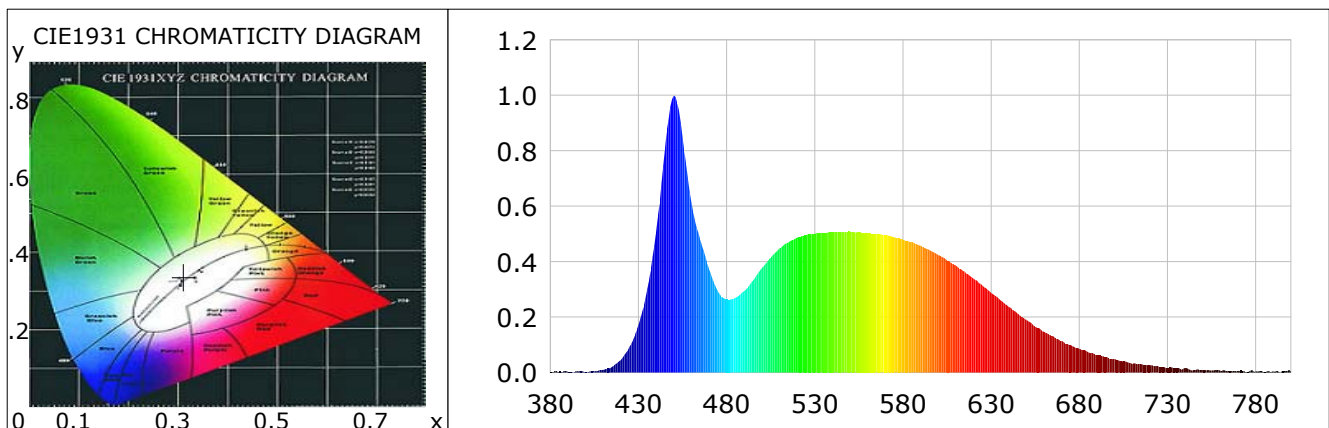
Lightsource Test Report

Product Infomation

Product Category: RFE-0167A-6000K-3LING Product Number: 7

CIE Colorimetric Parameters

Chromaticity coordinates: $x=0.3108$ $y=0.3370$ $u(u')=0.1936$ $v=0.3148$ $v'=0.4723$
 CCT: $T_c=6548K$ ($duv=0.00819$) Color Ratio: $R=0.128$ $G=0.816$ $B=0.056$
 Peak Wavelength: 450.2nm Half Bandwidth: 24.2nm
 Dominant Wavelength: 493.8nm Color Purity: 0.074
 CRI: $R_a=83.7$ TM30: $R_f=81$, $R_g=94$
 $R1=82$ $R2=83$ $R3=84$ $R4=88$ $R5=82$ $R6=77$ $R7=92$ $R8=77$
 $R9=16$ $R10=60$ $R11=87$ $R12=50$ $R13=82$ $R14=91$ $R15=78$
 Color Quality Scale: $Q_a=82.6$, $Q_f=82.7$, $Q_p=82.0$, $Q_g=90.4$
 $Q1=85$ $Q2=98$ $Q3=81$ $Q4=73$ $Q5=79$ $Q6=81$ $Q7=86$ $Q8=92$
 $Q9=96$ $Q10=88$ $Q11=84$ $Q12=83$ $Q13=84$ $Q14=74$ $Q15=78$



Photometric Parameters

Luminous Flux: 1093.85 lm Efficiency: 101.66 lm/W Radiant Power: 3.490 W
 EEI: 0.13 Energy Efficiency Class: A+ (EU 874-2012)

Electric Parameters

Voltage: 220.00V Current: 0.0540A Power: 10.76W
 Power Factor: 0.9030 Frequency: 49.99Hz

Test Infomation

Scan Range: 380~800:1nm
 Stabilization Time: 30 Sec
 Max of Signal: 43946 (4540)

Photometric Method: sphere-spectroradiometer
 Photometric Condition: Sphere diameter: 1.50m, 4T
 CCD Integration Time: 427.28 ms

Condition: $T_x=30.9^{\circ}C$, $T_i=0.0^{\circ}C$, R.H.:60%
 Test Lab: LH-SYS
 Operator: LYF

Test Device: Inventfine CMS-2
 Test Time: 2002-01-01 04:32:38
 Inspector:

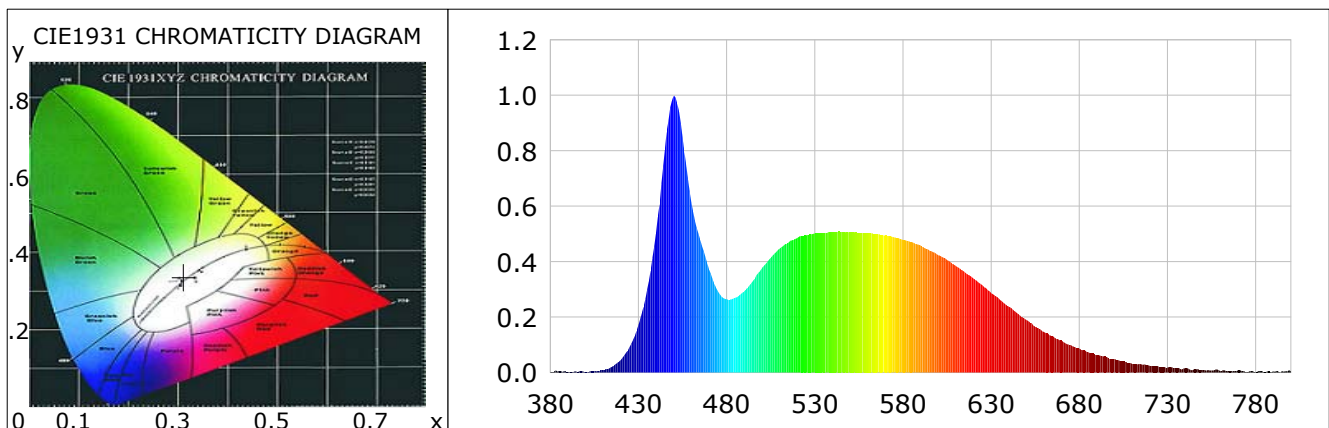
Lightsource Test Report

Product Infomation

Product Category: RFE-0167A-6000K-3LING Product Number: 8

CIE Colorimetric Parameters

Chromaticity coordinates: $x=0.3108$ $y=0.3370$ $u(u')=0.1936$ $v=0.3148$ $v'=0.4723$
 CCT: $T_c=6546K$ ($duv=0.00817$) Color Ratio: $R=0.128$ $G=0.816$ $B=0.056$
 Peak Wavelength: 450.2nm Half Bandwidth: 24.1nm
 Dominant Wavelength: 493.8nm Color Purity: 0.074
 CRI: $R_a=83.7$ TM30: $R_f=81$, $R_g=94$
 $R1=82$ $R2=83$ $R3=84$ $R4=88$ $R5=82$ $R6=77$ $R7=92$ $R8=77$
 $R9=16$ $R10=60$ $R11=87$ $R12=50$ $R13=82$ $R14=91$ $R15=78$
 Color Quality Scale: $Q_a=82.6$, $Q_f=82.7$, $Q_p=82.0$, $Q_g=90.4$
 $Q1=85$ $Q2=98$ $Q3=81$ $Q4=73$ $Q5=79$ $Q6=81$ $Q7=86$ $Q8=92$
 $Q9=96$ $Q10=88$ $Q11=84$ $Q12=83$ $Q13=84$ $Q14=74$ $Q15=78$



Photometric Parameters

Luminous Flux: 1099.23 lm Efficiency: 102.06 lm/W Radiant Power: 3.506 W
 EEI: 0.13 Energy Efficiency Class: A+ (EU 874-2012)

Electric Parameters

Voltage: 220.10V Current: 0.0540A Power: 10.77W
 Power Factor: 0.9040 Frequency: 49.99Hz

Test Infomation

Scan Range: 380~800:1nm
 Stabilization Time: 30 Sec
 Max of Signal: 44133 (4541)

Photometric Method: sphere-spectroradiometer
 Photometric Condition: Sphere diameter: 1.50m, 4T
 CCD Integration Time: 427.28 ms

Condition: $T_x=30.9^{\circ}C$, $T_i=0.0^{\circ}C$, R.H.:60%
 Test Lab: LH-SYS
 Operator: LYF

Test Device: Inventfine CMS-2
 Test Time: 2002-01-01 04:33:35
 Inspector: