

Lightsource Test Report

Product Infomation

Product Category: RFE-0167A-6000K-2LING Product Number: 1

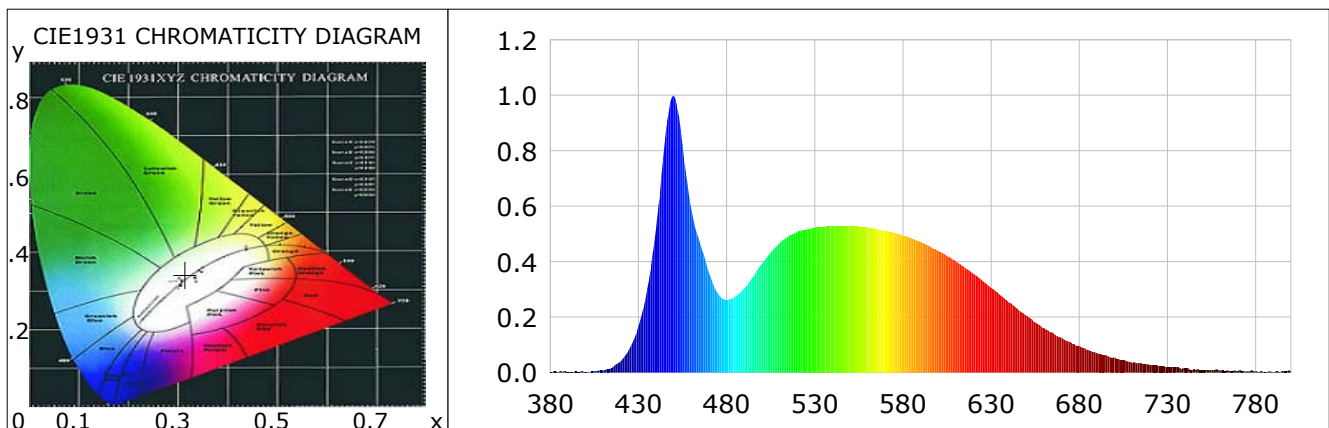
CIE Colorimetric Parameters

Chromaticity coordinates: $x=0.3140$ $y=0.3427$ $u(u')=0.1937$ $v=0.3171$ $v'(v')=0.4757$
 CCT: $T_c=6346K$ ($duv=0.00940$) Color Ratio: $R=0.130$ $G=0.816$ $B=0.054$
 Peak Wavelength: 449.8nm Half Bandwidth: 23.6nm
 Dominant Wavelength: 498.1nm Color Purity: 0.060
 CRI: $R_a=83.6$ TM30: $R_f=81$, $R_g=94$

R1 =81	R2 =83	R3 =84	R4 =88	R5 =82	R6 =77	R7 =92	R8 =77
R9 =16	R10=59	R11=87	R12=50	R13=81	R14=91	R15=78	

 Color Quality Scale: $Q_a=83.1$, $Q_f=83.3$, $Q_p=82.3$, $Q_g=90.4$

Q1 =85	Q2 =98	Q3 =81	Q4 =74	Q5 =80	Q6 =81	Q7 =86	Q8 =92
Q9 =96	Q10=88	Q11=85	Q12=84	Q13=84	Q14=74	Q15=79	



Photometric Parameters

Luminous Flux: 1108.06 lm Efficiency: 107.89 lm/W Radiant Power: 3.508 W
 EEI: 0.12 Energy Efficiency Class: A+ (EU 874-2012)

Electric Parameters

Voltage: 220.00V Current: 0.0520A Power: 10.27W
 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: 51824 (4758)	CCD Integration Time: 519.32 ms

Condition: $T_x:31.9^{\circ}C$, $T_i:0.0^{\circ}C$, R.H.:60%
 Test Lab: LH-SYS
 Operator: LYF

Test Device: Inventfine CMS-2
 Test Time: 2002-01-01 05:18:17
 Inspector:

Lightsource Test Report

Product Information

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

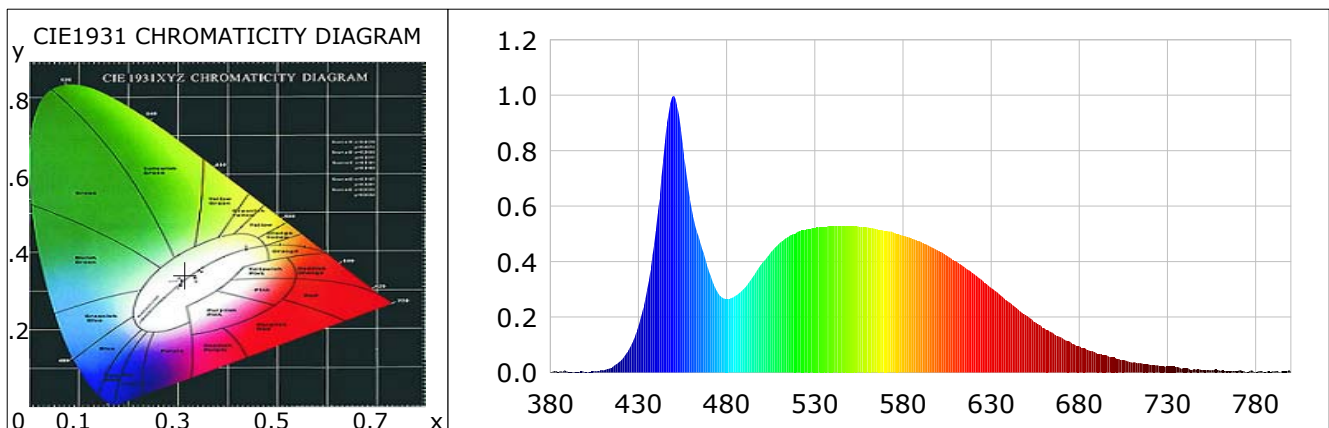
CIE Colorimetric Parameters

Chromaticity coordinates: $x=0.3138$ $y=0.3422$ $u(u')=0.1937$ $v=0.3169$ $v'(v')=0.4754$
 CCT: $T_c=6360K$ ($duv=0.00928$) Color Ratio: $R=0.130$ $G=0.816$ $B=0.054$
 Peak Wavelength: 449.8nm Half Bandwidth: 23.9nm
 Dominant Wavelength: 497.7nm Color Purity: 0.061
 CRI: $R_a=83.6$ TM30: $R_f=81$, $R_g=93$

R1 =81	R2 =83	R3 =84	R4 =88	R5 =82	R6 =77	R7 =92	R8 =78
R9 =17	R10=59	R11=87	R12=50	R13=81	R14=91	R15=78	

 Color Quality Scale: $Q_a=83.1$, $Q_f=83.3$, $Q_p=82.3$, $Q_g=90.4$

Q1 =85	Q2 =98	Q3 =81	Q4 =74	Q5 =79	Q6 =81	Q7 =86	Q8 =92
Q9 =96	Q10=88	Q11=85	Q12=84	Q13=84	Q14=74	Q15=79	



Photometric Parameters

Luminous Flux: 1107.42 lm Efficiency: 107.31 lm/W Radiant Power: 3.510 W
 EEI: 0.12 Energy Efficiency Class: A+ (EU 874-2012)

Electric Parameters

Voltage: 219.90V Current: 0.0520A Power: 10.32W
 Power Factor: 0.9020 Frequency: 50.00Hz

Test Information

Scan Range: 380~800:1nm
 Stabilization Time: 30 Sec
 Max of Signal: 51790 (4765)

Photometric Method: sphere-spectroradiometer
 Photometric Condition: Sphere diameter: 1.50m, 4T
 CCD Integration Time: 519.32 ms

Condition: $T_x=32.0^{\circ}C$, $T_i=0.0^{\circ}C$, R.H.:60%
 Test Lab: LH-SYS
 Operator: LYF

Test Device: Inventfine CMS-2
 Test Time: 2002-01-01 05:19:56
 Inspector:

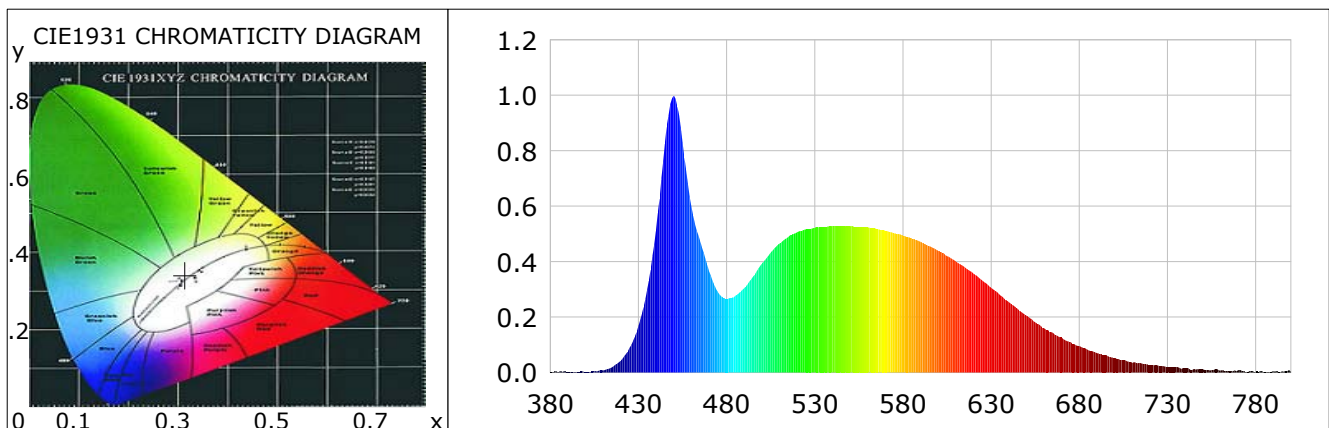
Lightsource Test Report

Product Infomation

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

CIE Colorimetric Parameters

Chromaticity coordinates: $x=0.3137$ $y=0.3419$ $u(u')=0.1938$ $v=0.3168$ $v'=0.4752$
 CCT: $T_c=6368K$ ($duv=0.00918$) Color Ratio: $R=0.130$ $G=0.816$ $B=0.054$
 Peak Wavelength: 449.9nm Half Bandwidth: 24.0nm
 Dominant Wavelength: 497.4nm Color Purity: 0.062
 CRI: $R_a=83.7$ TM30: $R_f=82$, $R_g=93$
 $R1=82$ $R2=83$ $R3=84$ $R4=88$ $R5=82$ $R6=77$ $R7=92$ $R8=78$
 $R9=17$ $R10=60$ $R11=87$ $R12=50$ $R13=81$ $R14=91$ $R15=78$
 Color Quality Scale: $Q_a=83.1$, $Q_f=83.3$, $Q_p=82.3$, $Q_g=90.5$
 $Q1=85$ $Q2=98$ $Q3=81$ $Q4=74$ $Q5=79$ $Q6=81$ $Q7=86$ $Q8=92$
 $Q9=96$ $Q10=89$ $Q11=85$ $Q12=84$ $Q13=84$ $Q14=74$ $Q15=79$



Photometric Parameters

Luminous Flux: 1105.29 lm Efficiency: 106.59 lm/W Radiant Power: 3.507 W
 EEI: 0.12 Energy Efficiency Class: A+ (EU 874-2012)

Electric Parameters

Voltage: 220.00V Current: 0.0520A Power: 10.37W
 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: 51728 (4766) CCD Integration Time: 519.32 ms

Condition: $T_x=32.0^\circ C$, $T_i=0.0^\circ C$, R.H.:60%
 Test Lab: LH-SYS
 Operator: LYF

Test Device: Inventfine CMS-2
 Test Time: 2002-01-01 05:21:14
 Inspector:

Lightsource Test Report

Product Infomation

Product Category: RFE-0167A-6000K-2LING Product Number: 4

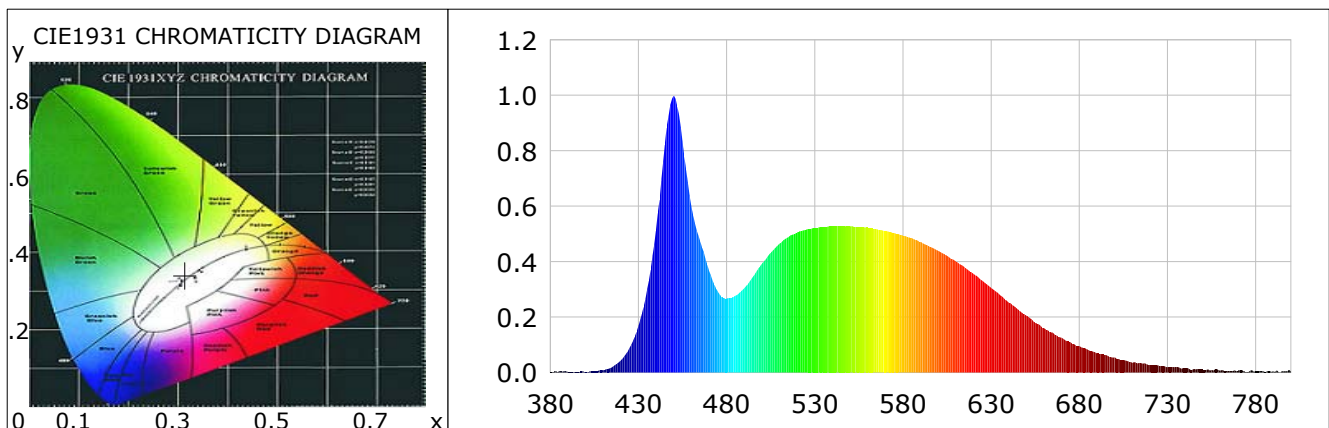
CIE Colorimetric Parameters

Chromaticity coordinates: $x=0.3136$ $y=0.3418$ $u(u')=0.1937$ $v=0.3168$ $v'(v')=0.4751$
 CCT: $T_c=6374K$ ($duv=0.00917$) Color Ratio: $R=0.130$ $G=0.816$ $B=0.054$
 Peak Wavelength: 450.0nm Half Bandwidth: 24.0nm
 Dominant Wavelength: 497.3nm Color Purity: 0.062
 CRI: $R_a=83.7$ TM30: $R_f=81$, $R_g=93$

R1 =81	R2 =83	R3 =84	R4 =88	R5 =82	R6 =77	R7 =92	R8 =78
R9 =17	R10=60	R11=87	R12=50	R13=81	R14=91	R15=78	

 Color Quality Scale: $Q_a=83.1$, $Q_f=83.3$, $Q_p=82.3$, $Q_g=90.4$

Q1 =85	Q2 =98	Q3 =81	Q4 =74	Q5 =79	Q6 =81	Q7 =86	Q8 =92
Q9 =96	Q10=89	Q11=85	Q12=84	Q13=84	Q14=74	Q15=79	



Photometric Parameters

Luminous Flux: 1106.51 lm Efficiency: 106.70 lm/W Radiant Power: 3.512 W
 EEI: 0.12 Energy Efficiency Class: A+ (EU 874-2012)

Electric Parameters

Voltage: 220.00V Current: 0.0520A Power: 10.37W
 Power Factor: 0.9020 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: 51922 (4769)	CCD Integration Time: 519.32 ms

Condition: $T_x=32.0^{\circ}C$, $T_i=0.0^{\circ}C$, R.H.:60%
 Test Lab: LH-SYS
 Operator: LYF

Test Device: Inventfine CMS-2
 Test Time: 2002-01-01 05:21:58
 Inspector:

Lightsource Test Report

Product Information

Product Category: RFE-0167A-6000K-2LING Product Number: 5

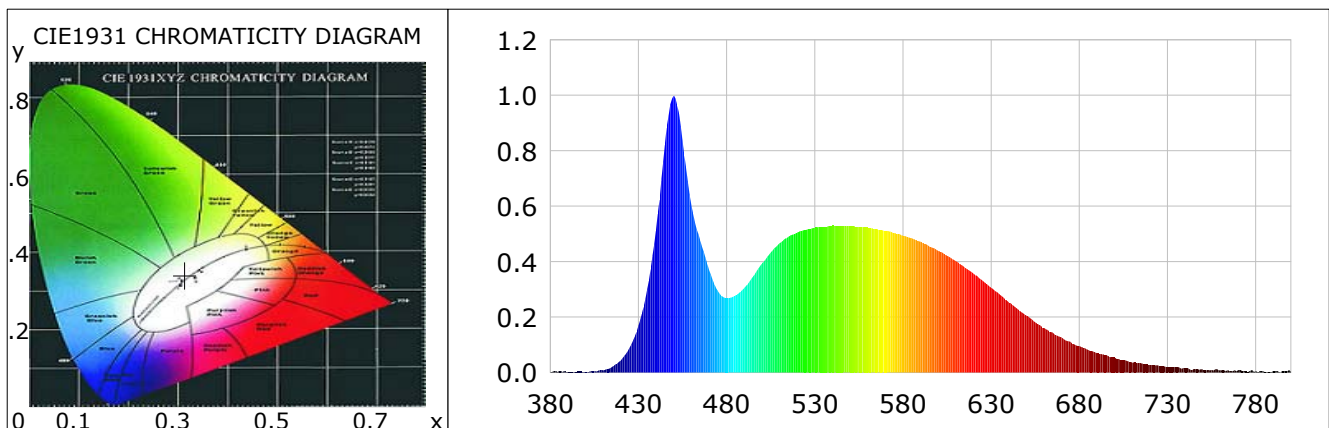
CIE Colorimetric Parameters

Chromaticity coordinates: $x=0.3135$ $y=0.3415$ $u(u')=0.1938$ $v=0.3167$ $v'=0.4750$
 CCT: $T_c=6380K$ ($duv=0.00909$) Color Ratio: $R=0.130$ $G=0.816$ $B=0.055$
 Peak Wavelength: 450.0nm Half Bandwidth: 24.2nm
 Dominant Wavelength: 497.1nm Color Purity: 0.062
 CRI: $R_a=83.8$ TM30: $R_f=82$, $R_g=93$

R1 =82	R2 =83	R3 =84	R4 =88	R5 =82	R6 =77	R7 =92	R8 =78
R9 =18	R10=60	R11=87	R12=51	R13=81	R14=91	R15=78	

 Color Quality Scale: $Q_a=83.2$, $Q_f=83.3$, $Q_p=82.4$, $Q_g=90.5$

Q1 =85	Q2 =98	Q3 =81	Q4 =74	Q5 =79	Q6 =81	Q7 =86	Q8 =92
Q9 =96	Q10=89	Q11=85	Q12=84	Q13=84	Q14=74	Q15=79	



Photometric Parameters

Luminous Flux: 1102.93 lm Efficiency: 106.15 lm/W Radiant Power: 3.503 W
 EEI: 0.12 Energy Efficiency Class: A+ (EU 874-2012)

Electric Parameters

Voltage: 219.90V Current: 0.0520A Power: 10.39W
 Power Factor: 0.9040 Frequency: 49.99Hz

Test Information

Scan Range: 380~800:1nm
 Stabilization Time: 30 Sec
 Max of Signal: 51638 (4773)

Photometric Method: sphere-spectroradiometer
 Photometric Condition: Sphere diameter: 1.50m, 4T
 CCD Integration Time: 519.32 ms

Condition: $T_x:32.1^\circ C$, $T_i:0.0^\circ C$, R.H.:60%
 Test Lab: LH-SYS
 Operator: LYF

Test Device: Inventfine CMS-2
 Test Time: 2002-01-01 05:23:13
 Inspector:

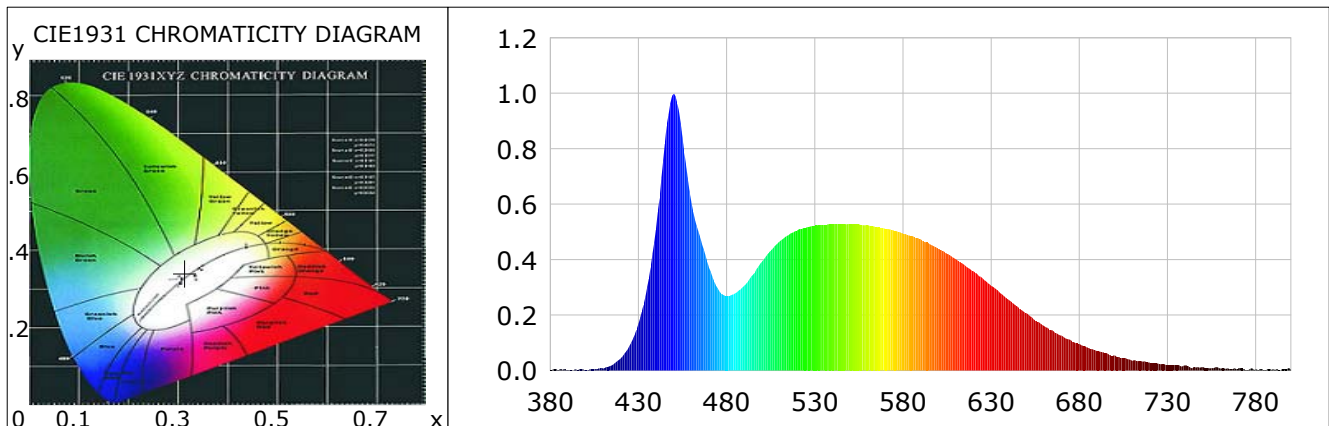
Lightsource Test Report

Product Infomation

Product Category: RFE-0167A-6000K-2LING Product Number: 6

CIE Colorimetric Parameters

Chromaticity coordinates: $x=0.3135$ $y=0.3415$ $u(u')=0.1938$ $v=0.3166$ $v'=0.4750$
 CCT: $T_c=6382K$ ($duv=0.00908$) Color Ratio: $R=0.130$ $G=0.816$ $B=0.055$
 Peak Wavelength: 450.0nm Half Bandwidth: 24.3nm
 Dominant Wavelength: 497.1nm Color Purity: 0.062
 CRI: $R_a=83.8$ TM30: $R_f=82$, $R_g=93$
 $R1=82$ $R2=83$ $R3=84$ $R4=88$ $R5=82$ $R6=77$ $R7=92$ $R8=78$
 $R9=18$ $R10=60$ $R11=87$ $R12=51$ $R13=81$ $R14=91$ $R15=78$
 Color Quality Scale: $Q_a=83.1$, $Q_f=83.3$, $Q_p=82.3$, $Q_g=90.5$
 $Q1=85$ $Q2=98$ $Q3=81$ $Q4=74$ $Q5=79$ $Q6=81$ $Q7=86$ $Q8=92$
 $Q9=96$ $Q10=89$ $Q11=85$ $Q12=84$ $Q13=84$ $Q14=74$ $Q15=79$



Photometric Parameters

Luminous Flux: 1099.21 lm Efficiency: 105.69 lm/W Radiant Power: 3.492 W
 EEI: 0.13 Energy Efficiency Class: A+ (EU 874-2012)

Electric Parameters

Voltage: 220.00V Current: 0.0520A Power: 10.40W
 Power Factor: 0.9040 Frequency: 49.99Hz

Test Infomation

Scan Range: 380~800:1nm
 Stabilization Time: 30 Sec
 Max of Signal: 51447 (4774)

Photometric Method: sphere-spectroradiometer
 Photometric Condition: Sphere diameter: 1.50m, 4T
 CCD Integration Time: 519.32 ms

Condition: $T_x:32.1^{\circ}C$, $T_i:0.0^{\circ}C$, R.H.:60%
 Test Lab: LH-SYS
 Operator: LYF

Test Device: Inventfine CMS-2
 Test Time: 2002-01-01 05:24:10
 Inspector:

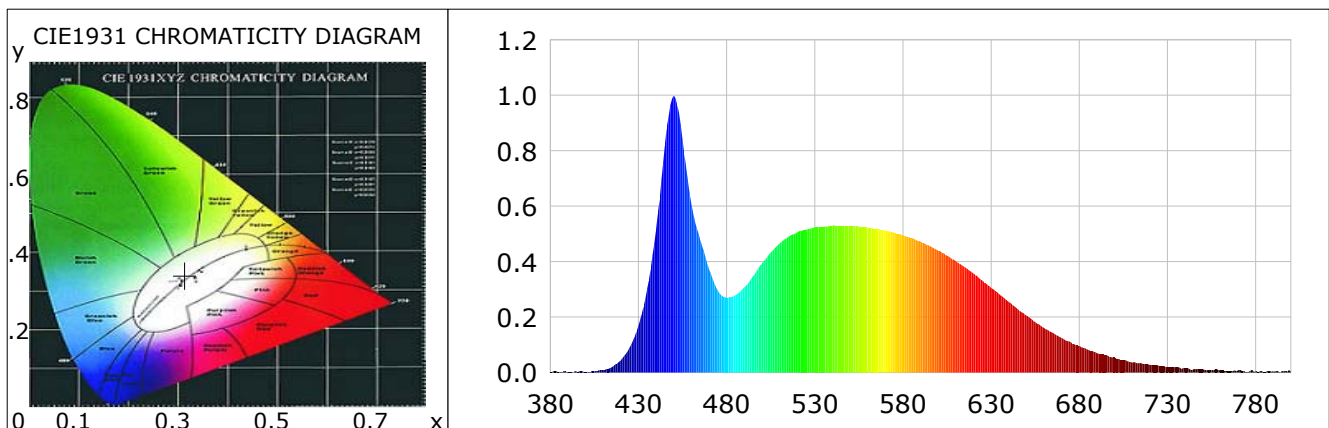
Lightsource Test Report

Product Information

Product Category: RFE-0167A-6000K-2LING Product Number: 7

CIE Colorimetric Parameters

Chromaticity coordinates: $x=0.3134$ $y=0.3414$ $u(u')=0.1938$ $v=0.3166$ $v'=0.4749$
 CCT: $T_c=6388K$ ($duv=0.00906$) Color Ratio: $R=0.130$ $G=0.816$ $B=0.055$
 Peak Wavelength: 450.0nm Half Bandwidth: 24.4nm
 Dominant Wavelength: 496.9nm Color Purity: 0.063
 CRI: $R_a=83.8$ TM30: $R_f=82$, $R_g=93$
 $R1=82$ $R2=83$ $R3=84$ $R4=88$ $R5=82$ $R6=77$ $R7=92$ $R8=78$
 $R9=18$ $R10=60$ $R11=87$ $R12=51$ $R13=81$ $R14=91$ $R15=78$
 Color Quality Scale: $Q_a=83.1$, $Q_f=83.3$, $Q_p=82.3$, $Q_g=90.5$
 $Q1=85$ $Q2=98$ $Q3=81$ $Q4=74$ $Q5=79$ $Q6=81$ $Q7=86$ $Q8=92$
 $Q9=96$ $Q10=89$ $Q11=85$ $Q12=84$ $Q13=84$ $Q14=74$ $Q15=79$



Photometric Parameters

Luminous Flux: 1104.23 lm Efficiency: 105.87 lm/W Radiant Power: 3.509 W
 EEI: 0.13 Energy Efficiency Class: A+ (EU 874-2012)

Electric Parameters

Voltage: 220.20V Current: 0.0520A Power: 10.43W
 Power Factor: 0.9040 Frequency: 49.99Hz

Test Information

Scan Range: 380~800:1nm
 Stabilization Time: 30 Sec
 Max of Signal: 51691 (4776)

Photometric Method: sphere-spectroradiometer
 Photometric Condition: Sphere diameter: 1.50m, 4T
 CCD Integration Time: 519.32 ms

Condition: $T_x=32.1^\circ C$, $T_i=0.0^\circ C$, R.H.:60%
 Test Lab: LH-SYS
 Operator: LYF

Test Device: Inventfine CMS-2
 Test Time: 2002-01-01 05:25:25
 Inspector:

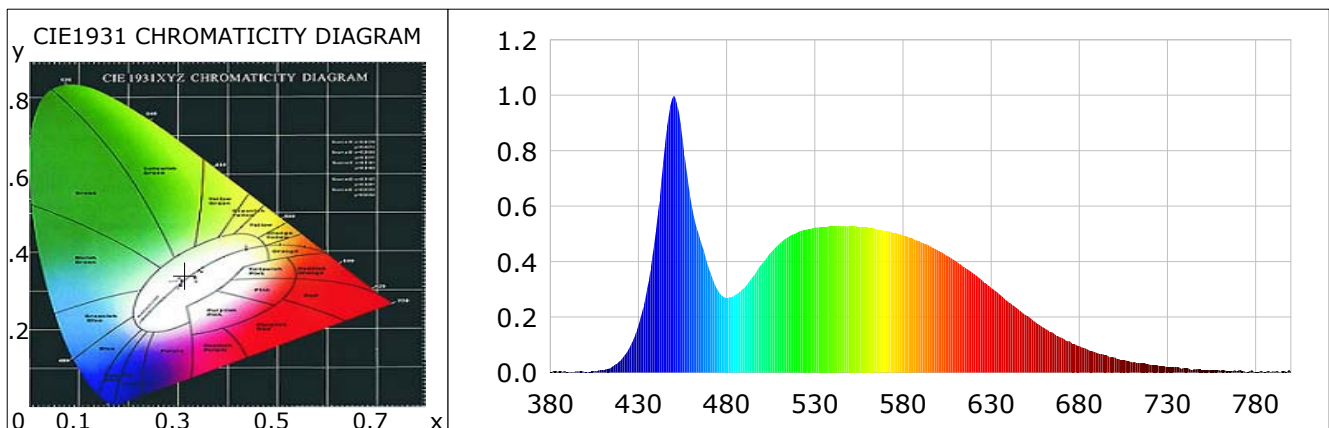
Lightsource Test Report

Product Information

Product Category: RFE-0167A-6000K-2LING Product Number: 8

CIE Colorimetric Parameters

Chromaticity coordinates: $x=0.3134$ $y=0.3413$ $u(u')=0.1938$ $v=0.3166$ $v'=0.4748$
 CCT: $T_c=6388K$ ($duv=0.00904$) Color Ratio: $R=0.130$ $G=0.816$ $B=0.055$
 Peak Wavelength: 450.0nm Half Bandwidth: 24.4nm
 Dominant Wavelength: 496.9nm Color Purity: 0.063
 CRI: $R_a=83.9$ TM30: $R_f=82$, $R_g=93$
 $R1=82$ $R2=83$ $R3=84$ $R4=88$ $R5=82$ $R6=77$ $R7=92$ $R8=78$
 $R9=18$ $R10=60$ $R11=87$ $R12=51$ $R13=81$ $R14=91$ $R15=78$
 Color Quality Scale: $Q_a=83.2$, $Q_f=83.3$, $Q_p=82.3$, $Q_g=90.5$
 $Q1=85$ $Q2=98$ $Q3=81$ $Q4=74$ $Q5=79$ $Q6=81$ $Q7=86$ $Q8=92$
 $Q9=96$ $Q10=89$ $Q11=85$ $Q12=84$ $Q13=84$ $Q14=74$ $Q15=79$



Photometric Parameters

Luminous Flux: 1099.67 lm Efficiency: 105.33 lm/W Radiant Power: 3.495 W
 EEI: 0.13 Energy Efficiency Class: A+ (EU 874-2012)

Electric Parameters

Voltage: 219.80V Current: 0.0520A Power: 10.44W
 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: 51519 (4782) CCD Integration Time: 519.32 ms

Condition: $T_x=32.1^\circ C$, $T_i=0.0^\circ C$, R.H.:60%
 Test Lab: LH-SYS
 Operator: LYF

Test Device: Inventfine CMS-2
 Test Time: 2002-01-01 05:26:14
 Inspector: