

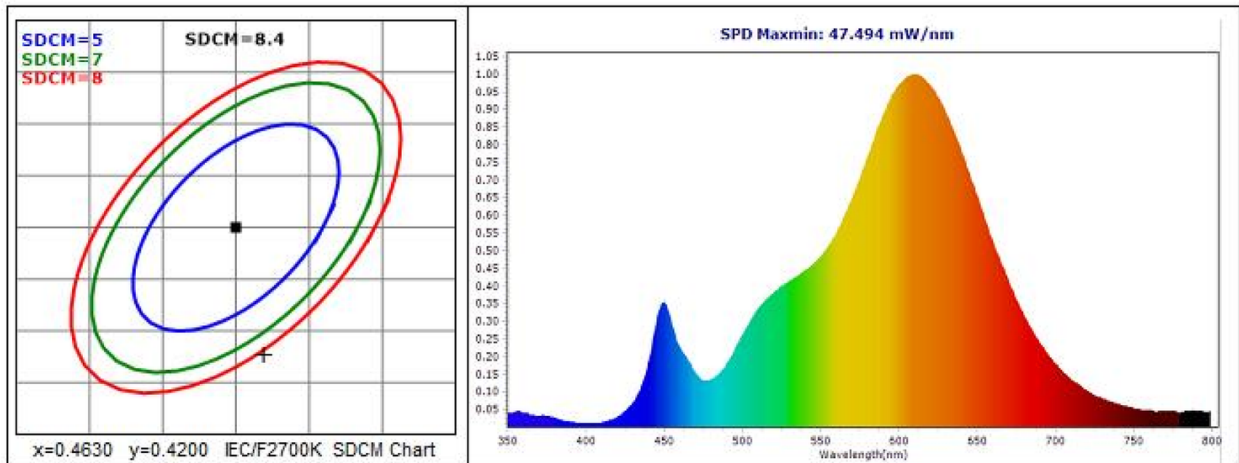
Spectral test report for lamp

Product type : jxl-bd14-wm22w-rgbw
Product No. :
Manufacturer :

Test time : 2025/5/26 22:53:20
Test equipment : SPEC-2000A Spectrometer
Operator :

CIE Color Parameter

Chromaticity coordinates: $x=0.4655$ $y=0.4058$ $u=0.2684$ $v=0.3509$ $u^*=0.2684$ $v^*=0.5264$
Color temperature: 2586 K ($duv=-0.00217$) Color difference: SDCM(IEC/F2700)=8.4 Main Wl: $\lambda_d=649.1$ nm Purity: 0.058
Peak wavelength: $\lambda_p=610.5$ FWHM: $\Delta\lambda_p=109.0$ nm Color ratio: R=28.64% G=69.48% B=1.87%
Color rendering index :Ra=85.06 Color Fidelity:Rf=84.92 Color Gamut:Rg=98.52 GAI=104.52
R1=84.8 R2=94.1 R3=94.5 R4=84.4 R5=85.7 R6=94.8 R7=81.7 R8=60.5
R9=17.2 R10=87.5 R11=86.4 R12=85.3 R13=88.1 R14=97.8 R15=76.6



Optical Parameter

Luminous flux: 2062.25 lm
Energy efficiency index(EEI): 98.202
MOVE=1677.135 MES1=1509.352
luminous efficiency: 98.2 lm/w
Radiant flux: 6754.906 W
Energy efficiency class: F (EU 2019/2015) (EU 874)

Electrical Parameter

Voltage(V): 24.00 Current(A): 0.9000 Watte(W): 21.000 Power factor: 0.0000

Test Infomation

Temperature : 25.0 Deg C
Test range : 350-800nm : 1nm
Preheat time : 0(min)
Humidity : 65%
Peak AD. : 35197 (53.7%)
Integral time. : 24.03 (ms)

MEASUREFINE

Hangzhou Huipu Instrument Co., Ltd. <http://www.measurefine.com>

Spectral Test Report for Lamp

Product Type:
Product No.:
Manufactory:

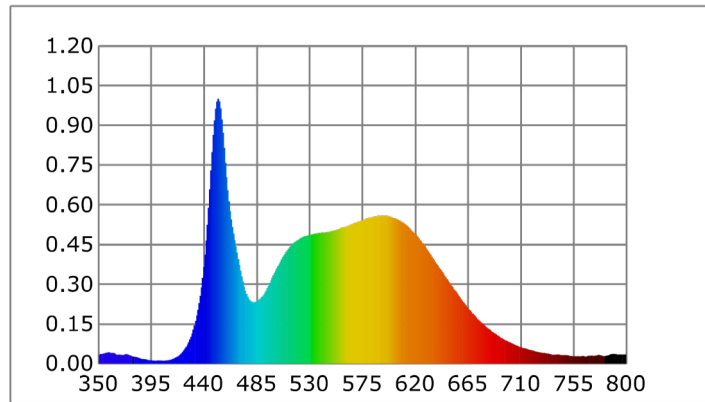
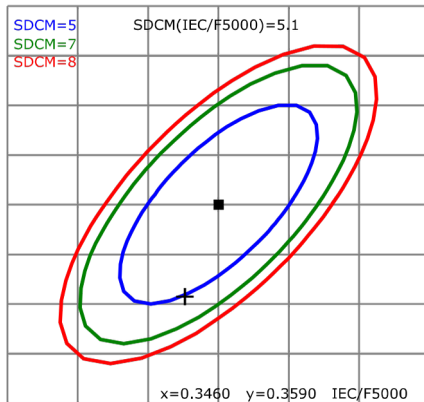
Operator:
Test Equipment: SPEC-2000A Spectrometer
Test Time: 2025/5/26 22:39:42

CIE Color Parameter

Chromaticity Coordinates: $x=0.3429$ $y=0.3456$ $u=0.2123$ $v=0.3209$ $u^*=0.2123$ $v^*=0.4814$
Color Temperature: 5066 K ($\text{duv}=-0.0022$) Color Difference: $\text{SDCM(IEC/F5000)}=5.1$ Main Wl: $\lambda_d=482.2$ nm Purity: 0.275
Peak Wavelength: $\lambda_p=451.0$ FWHM: $\Delta\lambda_p=22.4$ nm Color Ratio: R=17.93% G=77.69% B=4.38%

Color Rendering Index: $R_a=87.43$ Color Fidelity: $R_f=85.33$ Color Gamut: $R_g=99.27$ GAI:102.32

$R_1=88.0$ $R_2=91.9$ $R_3=93.3$ $R_4=88.0$ $R_5=88.4$ $R_6=87.6$ $R_7=87.9$ $R_8=74.4$
 $R_9=30.6$ $R_{10}=80.1$ $R_{11}=88.5$ $R_{12}=70.3$ $R_{13}=89.5$ $R_{14}=96.4$ $R_{15}=84.4$



Optical Parameter

Luminous Flux: 2180.65 lm luminous efficiency: 103.84 lm/w Radiant flux: 7225.646 mW
Total Efficiency: 103.841 lm/W Energy Efficiency Class: F (EU 2019/2015)

Radiant flux: R=620.057 mW G=917.498 mW B=1240.777 mW R/G=0.676 B/G=1.352 $\Phi_e/\Phi=3.31$ mw/lm

Electrical Parameter

Voltage(V): 24.00 Current(A): 0.9360 Power(W): 21.000 Power Factor: 0.0000 DF: 0.0000

Temperature: 25.0 °C
Test Range: 350-800nm : 1nm
Preheat Time: 0(min)

Humidity: 65%
Peak AD: 37899 (57.8%)
Integral Time: 20.03 (ms)

Spectral Test Report for Lamp

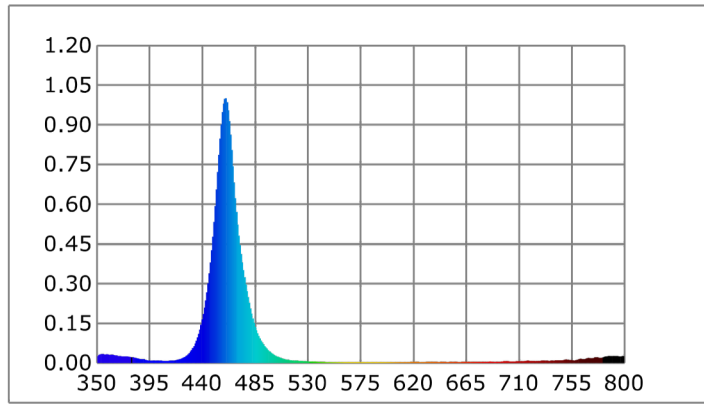
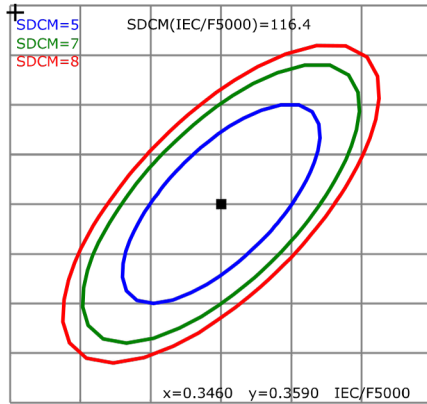
Product Type: JXL-BD14-WM22W-RGBCW-BT
Product No.:
Manufactory:

Operator:
Test Equipment: SPEC-2000A Spectrometer
Test Time: 2025/5/26 23:03:21

CIE Color Parameter

Chromaticity Coordinates: $x=0.1465$ $y=0.0473$ $u=0.1790$ $v=0.0866$ $u^*=0.1790$ $v^*=0.1299$
Color Temperature: 100000 K ($duv=-0.18561$) Color Difference: $SDCM(IEC/F5000)=116.4$ Main Wl: $\lambda_d=472.1$ nm Purity: 0.993
Peak Wavelength: $\lambda_p=458.6$ FWHM: $\Delta\lambda_p=21.6$ nm Color Ratio: R=3.15% G=19.53% B=77.32%

Color Rendering Index: $R_a=-42.04$ Color Fidelity: $R_f=NaN$ Color Gamut: $R_g=NaN$ GAI: 7.33
 $R_1=20.7$ $R_2=-35.7$ $R_3=-150.4$ $R_4=-80.8$ $R_5=29.4$ $R_6=-40.2$ $R_7=-49.3$ $R_8=-30.0$
 $R_9=-141.8$ $R_{10}=-220.5$ $R_{11}=-103.6$ $R_{12}=-87.4$ $R_{13}=-4.4$ $R_{14}=-32.9$ $R_{15}=28.6$



Optical Parameter

Luminous Flux: 129.76 lm luminous efficiency: 16.22 lm/w Radiant flux: 2457.037 mW
Total Efficiency: 16.220 lm/W Energy Efficiency Class: G (EU 2019/2015)

Radiant flux: R=10.24 mW G=16.025 mW B=1459.885 mW R/G=0.639 B/G=91.098 $\Phi_e/\Phi=18.94$ mw/lm

Electrical Parameter

Voltage(V): 24.00 Current(A): 0.3000 Power(W): 8.000 Power Factor: 0.0000 DF: 0.0000

Temperature: 25.0 °C
Test Range: 350-800nm : 1nm
Preheat Time: 0(min)

Humidity: 65%
Peak AD: 40065 (61.1%)
Integral Time: 14.04 (ms)

Spectral Test Report for Lamp

Product Type: JXL-BD14-WM22W-RGBCW-BT
Product No.:
Manufactory:

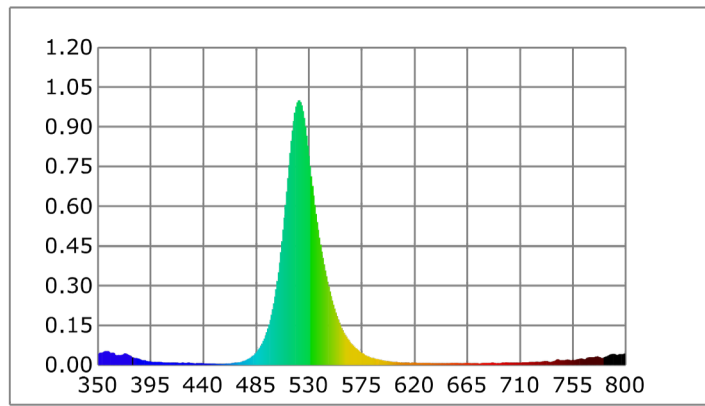
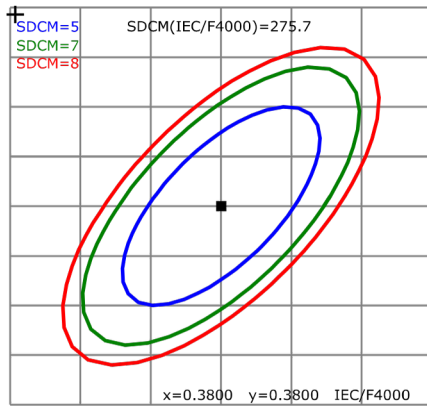
Operator:
Test Equipment: SPEC-2000A Spectrometer
Test Time: 2025/5/26 23:01:32

CIE Color Parameter

Chromaticity Coordinates: $x=0.1720$ $y=0.7141$ $u=0.0613$ $v=0.3817$ $u^*=0.0613$ $v^*=0.5726$
Color Temperature: 7842 K ($duv=+0.15562$) Color Difference: $SDCM(IEC/F4000)=275.7$ Main Wl: $\lambda_d=505.2$ nm Purity: 0.812
Peak Wavelength: $\lambda_p=520.6$ FWHM: $\Delta\lambda_p=30.3$ nm Color Ratio: $R=0.69\%$ $G=97.84\%$ $B=1.47\%$

Color Rendering Index: $R_a=-16.07$ Color Fidelity: $R_f=3.66$ Color Gamut: $R_g=12.03$ GAI: 1.21

$R_1=-31.5$ $R_2=-2.7$ $R_3=-10.3$ $R_4=-52.0$ $R_5=-6.6$ $R_6=-11.2$ $R_7=7.8$ $R_8=-22.3$
 $R_9=-337.6$ $R_{10}=-95.1$ $R_{11}=-81.4$ $R_{12}=-28.7$ $R_{13}=-33.9$ $R_{14}=45.1$ $R_{15}=-28.7$



Optical Parameter

Luminous Flux: 533.44 lm luminous efficiency: 66.68 lm/w Radiant flux: 1229.817 mW
Total Efficiency: 66.680 lm/W Energy Efficiency Class: G (EU 2019/2015)

Radiant flux: $R=6.225$ mW $G=649.774$ mW $B=4.97$ mW $R/G=0.01$ $B/G=0.008$ $\Phi_e/\Phi=2.31$ mw/lm

Electrical Parameter

Voltage(V): 24.00 Current(A): 0.3800 Power(W): 8.000 Power Factor: 0.0000 DF: 0.0000

Temperature: 25.0 °C
Test Range: 350-800nm : 1nm
Preheat Time: 0(min)

Humidity: 65%
Peak AD: 32476 (49.6%)
Integral Time: 26.09 (ms)

Spectral Test Report for Lamp

Product Type: JXL-BD14-WM22W-RGBCW-BT
Product No.:
Manufactory:

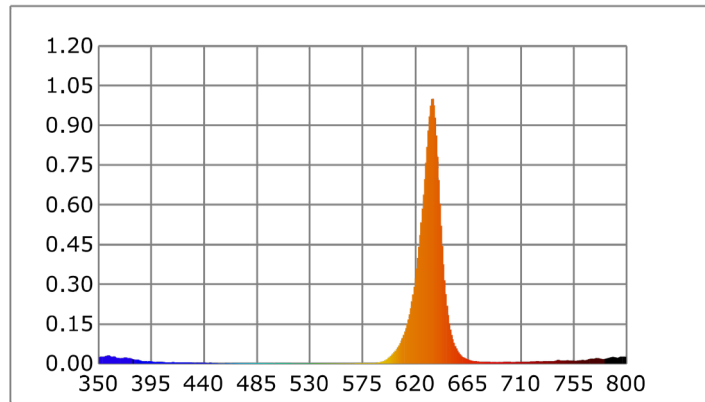
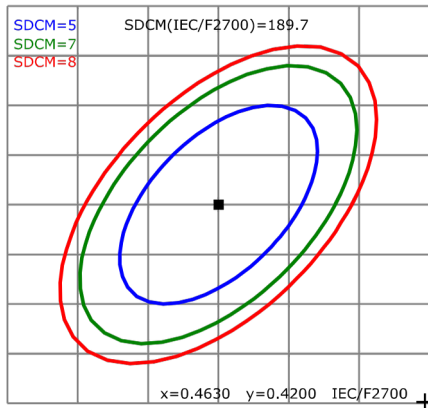
Operator:
Test Equipment: SPEC-2000A Spectrometer
Test Time: 2025/5/26 22:59:03

CIE Color Parameter

Chromaticity Coordinates: $x=0.6869$ $y=0.2996$ $u=0.5262$ $v=0.3443$ $u^*=0.5262$ $v^*=0.5165$
Color Temperature: 1000 K ($duv=-0.07875$) Color Difference: $SDCM(IEC/F2700)=189.7$ Main Wl: $\lambda_d=494.8$ nm Purity: 0.612
Peak Wavelength: $\lambda_p=633.6$ FWHM: $\Delta\lambda_p=17.7$ nm Color Ratio: $R=96.21\%$ $G=3.57\%$ $B=0.22\%$

Color Rendering Index: $R_a=29.85$ Color Fidelity: $R_f=18.41$ Color Gamut: $R_g=NaN$ GAI: 185.58

$R_1=26.9$ $R_2=89.5$ $R_3=37.0$ $R_4=4.5$ $R_5=30.6$ $R_6=86.8$ $R_7=12.7$ $R_8=-49.2$
 $R_9=-183.9$ $R_{10}=91.6$ $R_{11}=29.7$ $R_{12}=46.4$ $R_{13}=58.4$ $R_{14}=64.6$ $R_{15}=-14.5$



Optical Parameter

Luminous Flux: 182.53 lm luminous efficiency: 26.08 lm/w Radiant flux: 1099.608 mW
Total Efficiency: 26.076 lm/W Energy Efficiency Class: G (EU 2019/2015)

Radiant flux: $R=575.639$ mW $G=2.044$ mW $B=3.07$ mW $R/G=281.631$ $B/G=1.502$ $\Phi_e/\Phi=6.02$ mw/lm

Electrical Parameter

Voltage(V): 24.00 Current(A): 0.2800 Power(W): 7.000 Power Factor: 0.0000 DF: 0.0000

Temperature: 25.0 °C
Test Range: 350-800nm : 1nm
Preheat Time: 0(min)

Humidity: 65%
Peak AD: 33570 (51.2%)
Integral Time: 30.01 (ms)