



SPECTROPHOTOMETER TEST RESULTS

LED Test Report

30W RGBW

Recessed Light V2

A-DL-30W-RGBW-24V-V2



CHANNELS TESTED



Measured output at a glance

Results below are reproduced from the four source reports; units and precision are retained.

CHANNEL	FLUX	PEAK	DOMINANT	PURITY	CCT
 Warm white - 3000 K 11:17:26	348.46 lm	606.7 nm	582.4 nm	54.3%	2998 K
 Red 11:18:40	299.01 lm	629.6 nm	621.3 nm	99.9%	1340 K
 Green 11:20:50	497.51 lm	521.6 nm	529.0 nm	83.6%	7657 K
 Blue 11:19:34	69.73 lm	453.7 nm	458.4 nm	98.7%	100000 K

What is included

- Spectral distribution and CIE 1931 chart
- Chromaticity, wavelength and purity values
- Warm-white CRI sample values R1 through R15
- Non-zero photometric and instrument readings

Source-report notes

The exports identify the product type by channel.

The manufacturer field reads "3000K" and the temperature field reads "admin °C"; both are retained as source metadata on the detail pages.

Test system

INSTRUMENT

Hopoo HP8000

HUMIDITY

65%

PRODUCT ID

201304315

SOURCE REPORT

HPLLED Fast Spectrophotometer Test Report

OPERATOR

admin

REPORT LANGUAGE

English

Warm white - 3000 K

Tested January 5, 2026 at 11:17:26 | 65% relative humidity

LUMINOUS FLUX

348.46 lm

PEAK WAVELENGTH

606.7 nm

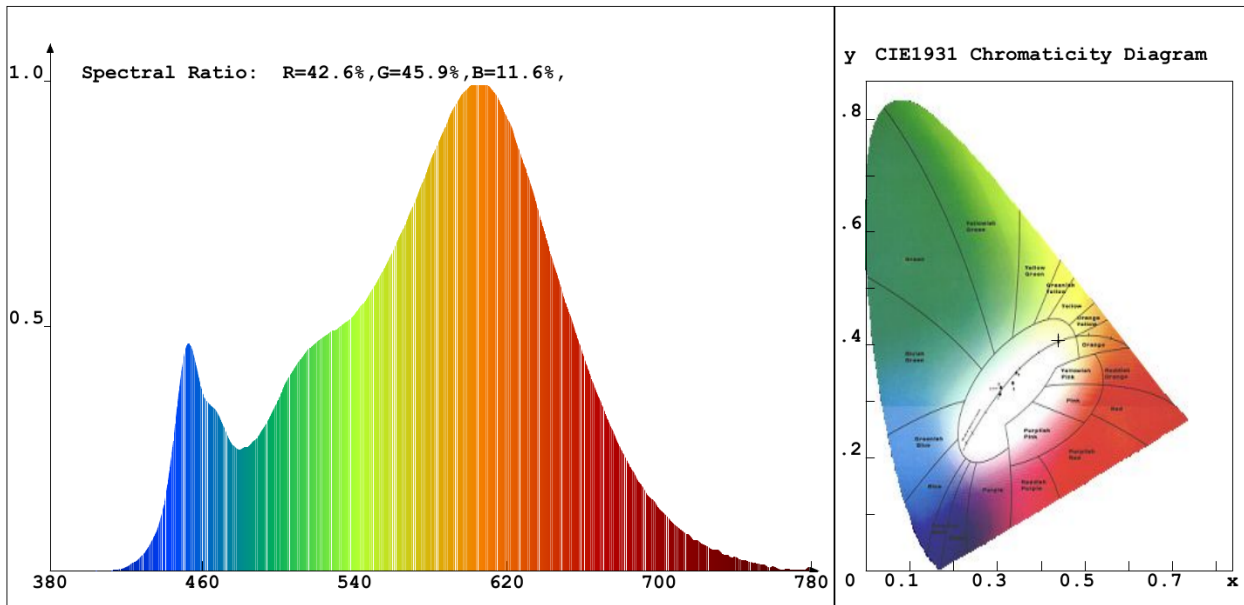
DOMINANT WAVELENGTH

582.4 nm

PURITY

54.3%

SOURCE SPECTRAL OUTPUT AND CIE 1931 POSITION



Color and spectrum

x 0.4391 y 0.4082 u 0.2502 v 0.3489 Duv 0.0014

CCT 2998 K FLUX RGB RATIO R 23.2% / G 75.0% / B 1.8% HALF WIDTH 121.9 nm
SPECTRAL RATIO R 42.6% / G 45.9% / B 11.6%

Photometric results

LUMINOUS FLUX

348.46 lm

RADIANT POWER

1416.2 mW

Color rendering

Ra 83.8

R1 82 R2 93 R3 95 R4 83 R5 85 R6 94 R7 81 R8 58 R9 9 R10 85 R11 84 R12 76 R13 85 R14 98 R15 73

INSTRUMENT

Hopoo HP8000

INTEGRATION

245.408 ms

VPEAK

14822

VDARK

1344

PRODUCT ID

201304315

Source metadata: product type shown by channel; manufacturer 3000K; temperature admin °C; operator admin.

Red

Tested January 5, 2026 at 11:18:40 | 65% relative humidity

LUMINOUS FLUX

299.01 lm

PEAK WAVELENGTH

629.6 nm

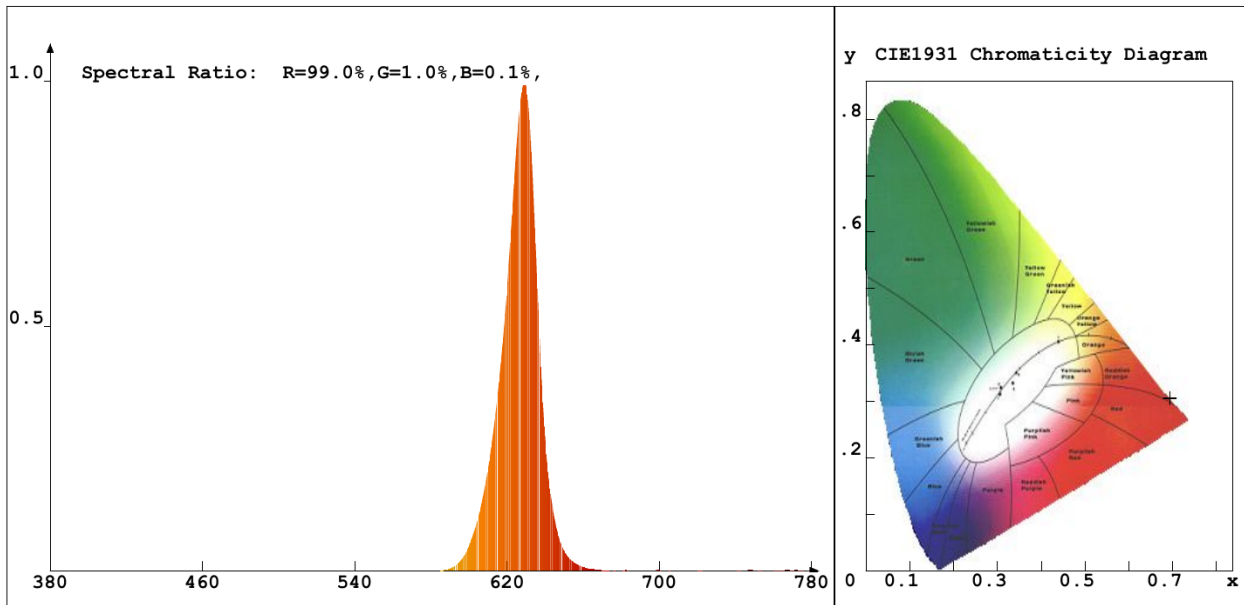
DOMINANT WAVELENGTH

621.3 nm

PURITY

99.9%

SOURCE SPECTRAL OUTPUT AND CIE 1931 POSITION



Color and spectrum

x 0.6937 y 0.3059 u 0.5252 v 0.3474 Duv -0.0007

CCT

1340 K

FLUX RGB RATIO

R 97.8% / G 2.2%

HALF WIDTH

18.2 nm

SPECTRAL RATIO

R 99.0% / G 1.0% / B 0.1%

Photometric results

LUMINOUS FLUX

299.01 lm

RADIANT POWER

1925.1 mW

INSTRUMENT

Hopoo HP8000

INTEGRATION

38.711 ms

VPEAK

13814

VDARK

1294

PRODUCT ID

201304315

Source metadata: product type shown by channel; manufacturer 3000K; temperature admin °C; operator admin.

Green

Tested January 5, 2026 at 11:20:50 | 65% relative humidity

LUMINOUS FLUX

497.51 lm

PEAK WAVELENGTH

521.6 nm

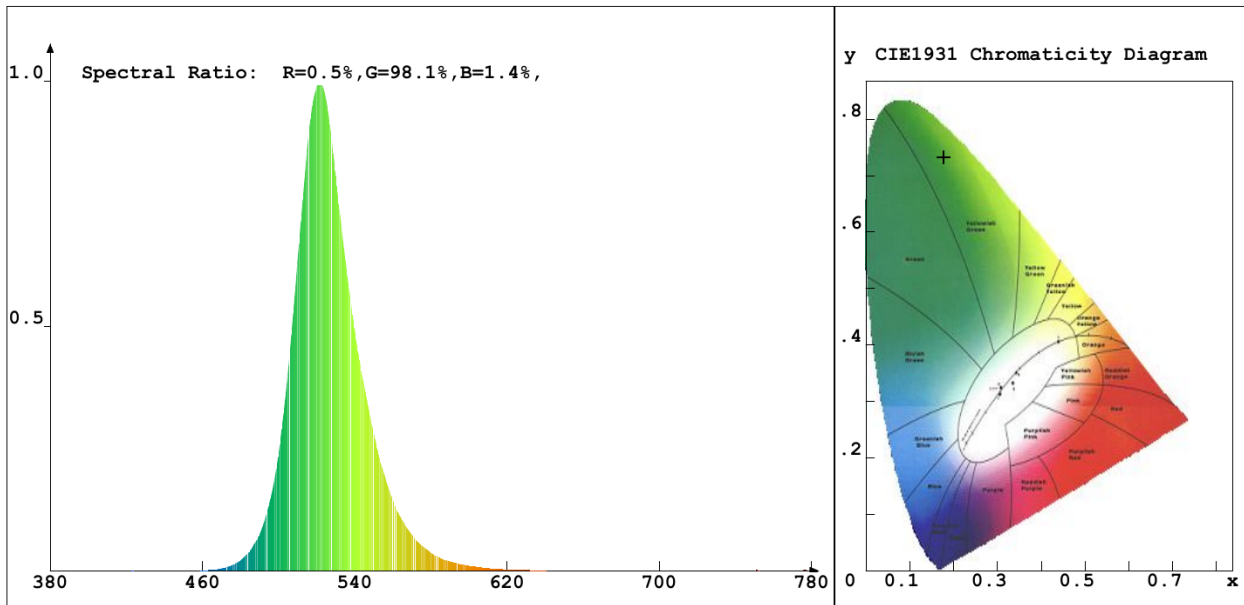
DOMINANT WAVELENGTH

529.0 nm

PURITY

83.6%

SOURCE SPECTRAL OUTPUT AND CIE 1931 POSITION



Color and spectrum

x 0.1774 y 0.7324 u 0.0621 v 0.3843 Duv 0.1563

CCT

7657 K

FLUX RGB RATIO

R 0.3% / G 99.4% / B 0.3%

HALF WIDTH

32.5 nm

SPECTRAL RATIO

R 0.5% / G 98.1% / B 1.4%

Photometric results

LUMINOUS FLUX

497.51 lm

RADIANT POWER

1310.7 mW

INSTRUMENT

Hopoo HP8000

INTEGRATION

61.103 ms

VPEAK

14566

VDARK

1139

PRODUCT ID

201304315

Source metadata: product type shown by channel; manufacturer 3000K; temperature admin °C; operator admin.

Blue

Tested January 5, 2026 at 11:19:34 | 65% relative humidity

LUMINOUS FLUX

69.73 lm

PEAK WAVELENGTH

453.7 nm

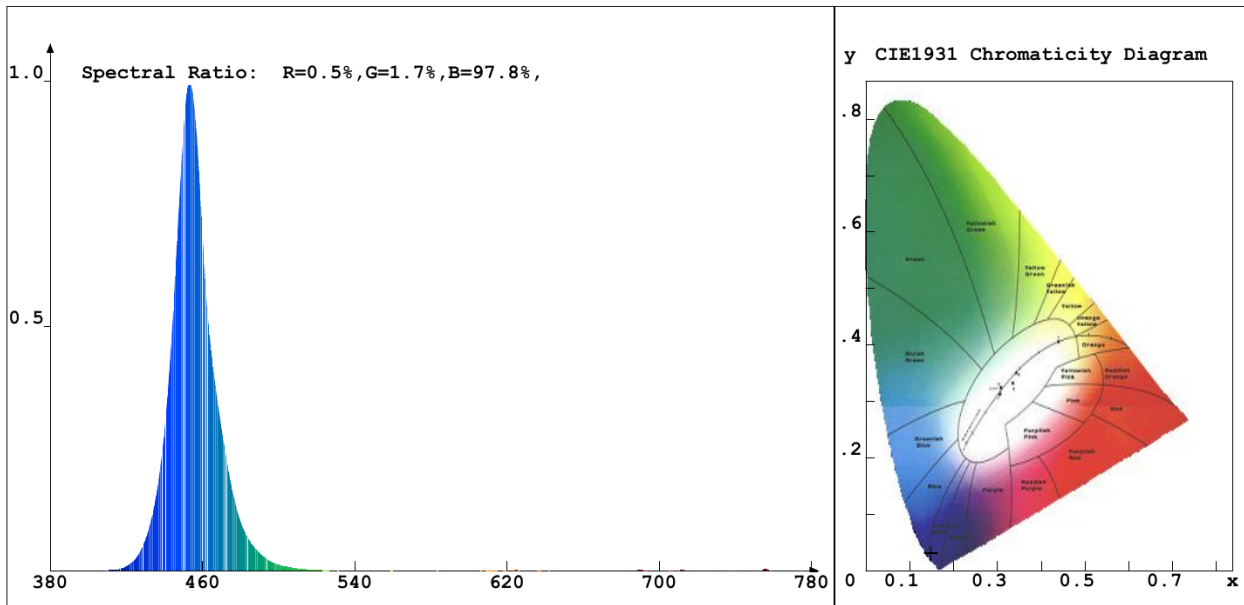
DOMINANT WAVELENGTH

458.4 nm

PURITY

98.7%

SOURCE SPECTRAL OUTPUT AND CIE 1931 POSITION



Color and spectrum

x 0.1487 y 0.0311 u 0.1934 v 0.0607 Duv -0.0632

CCT	100000 K	FLUX RGB RATIO	R 0.9% / G 10.6% / B 88.5%	HALF WIDTH	19.3 nm
SPECTRAL RATIO	R 0.5% / G 1.7% / B 97.8%				

Photometric results

LUMINOUS FLUX

69.73 lm

RADIANT POWER

2541.4 mW

INSTRUMENT

Hopoo HP8000

INTEGRATION

19.355 ms

VPEAK

13542

VDARK

1128

PRODUCT ID

201304315

Source metadata: product type shown by channel; manufacturer 3000K; temperature admin °C; operator admin.