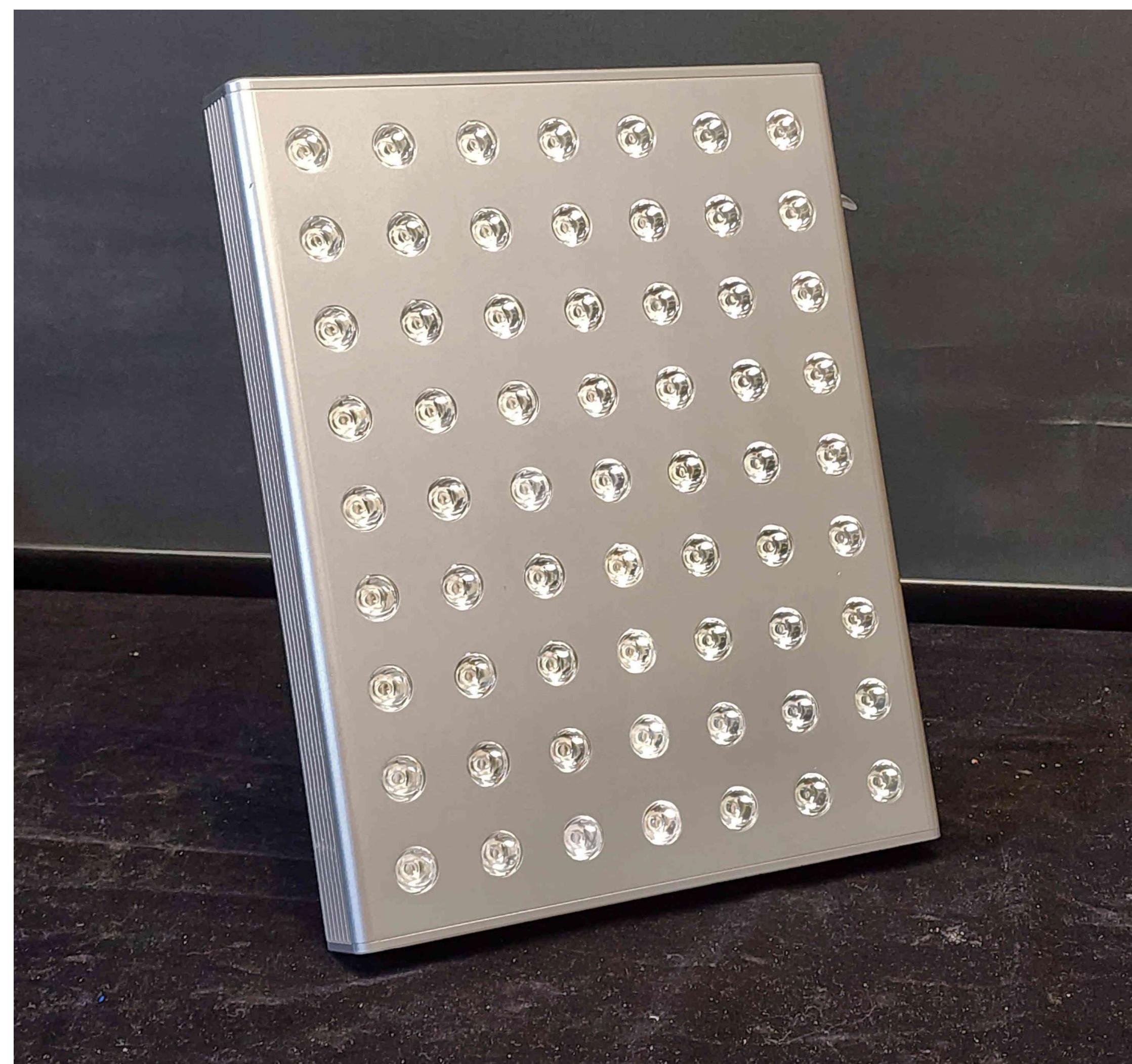


## Summary of Test Results

LightLab International Allentown, LLC report number: LLIA002350-002

Catalog Number: LED Panel Sample

Portable, formed steel housing, aluminum heatsink plate with 2 fans.  
63 LEDs, 32 red and 31 near infrared LEDs with clear plastic optics below each  
One MerryKing MKI-1900500C8 AC/DC Adapter



Irradiance measurements acquired with LLIA asset #A108-Gigahertz-Optik BTS2048-VL-TEC Spectral Irradiance Meter. Irradiance measurements taken in the LightLab goniophotometer room with stray light reduction. The test subject was allowed to reach stabilization according to IES LM-79-19 criteria prior to measurements. The test subject was measured in laboratory conditions.

Prepared For:  
Fringe, Inc.

The laboratory has not participated in the selection of samples to be tested. All testing is performed on the understanding that the significance of the report is limited to the extent that the test sample is representative of production units. Prorating the performance of the sample for the use of other component combinations (such as lamp / LED / Ballast / driver), or for use in different environmental conditions than that tested, may produce erroneous results. This report is free of erasures and corrections.

Test Date: 4/24/2024

Summary Report Template V1-1

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*North America (issuing laboratory)*

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905 Harrison Street, Suite 135  
Allentown, PA 18103 USA

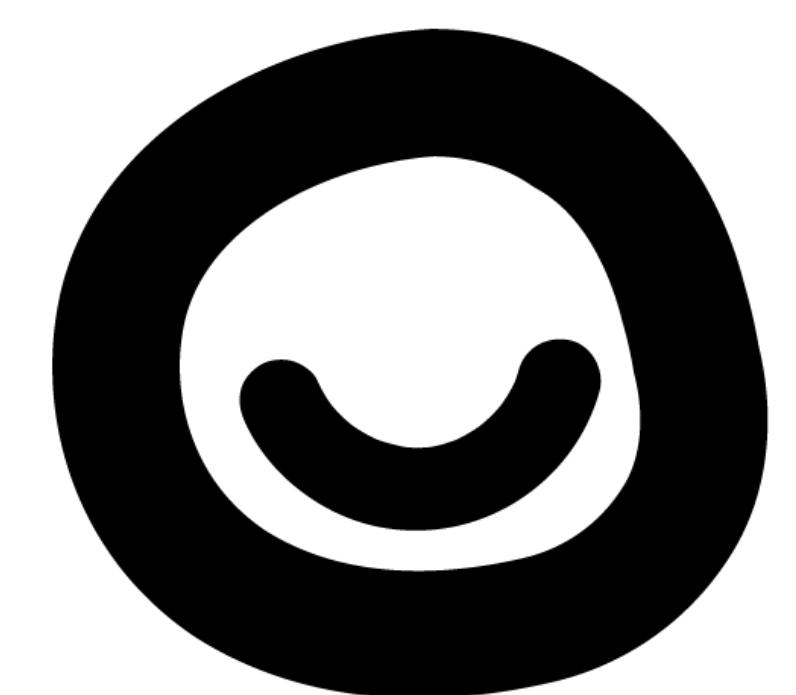
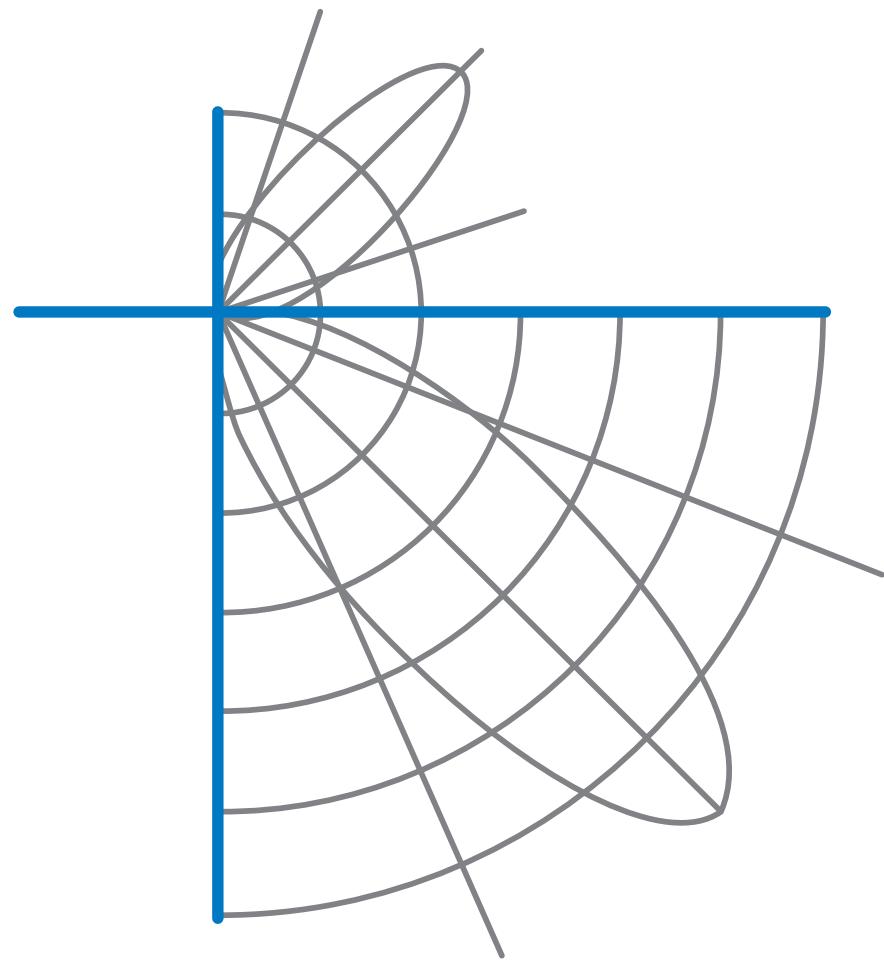
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Fx : +61 7 3283 8751  
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## Summary of Test Results

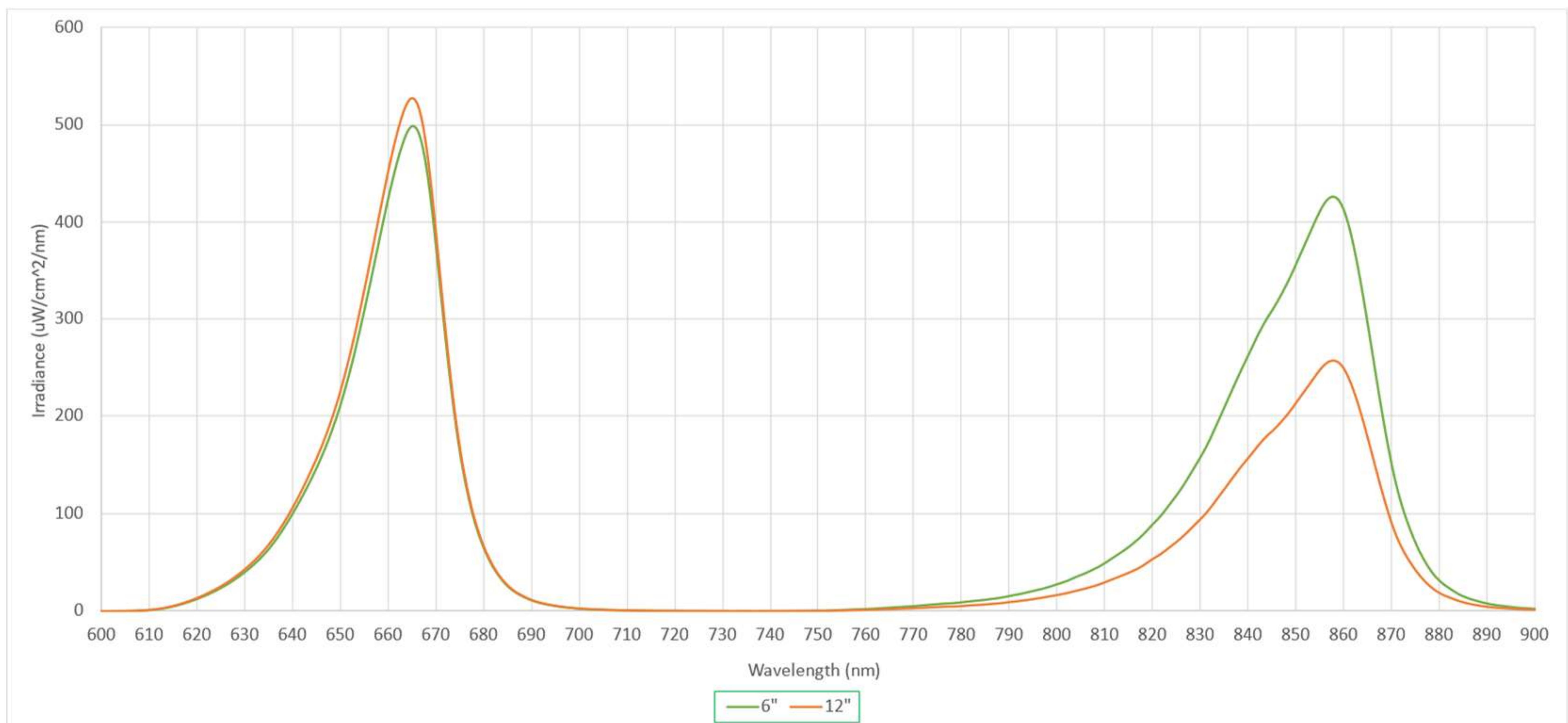
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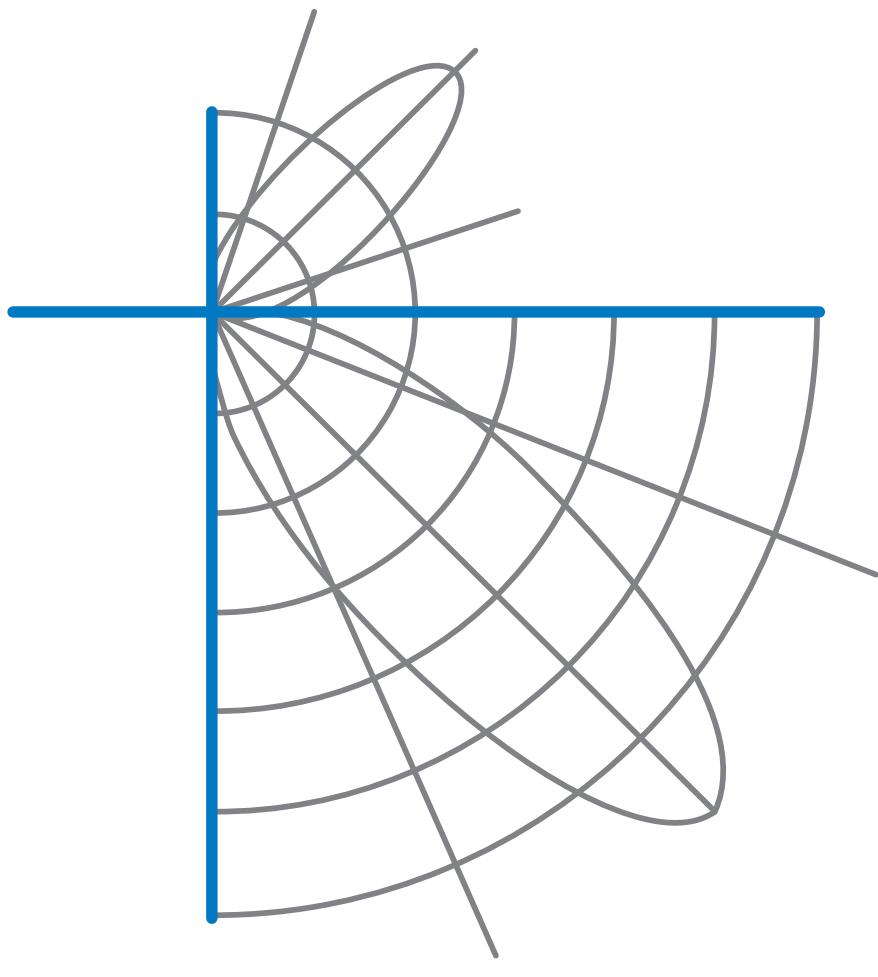
Catalog Number: LED Panel Sample  
Portable, formed steel housing, aluminum heatsink plate with 2 fans.  
63 LEDs, 32 red and 31 near infrared LEDs with clear plastic optics below each  
One MerryKing MKI-1900500C8 AC/DC Adapter

120.0VAC, 1.135A, 65.92W, 0.484PF, 170.9%THD(i)

Irradiance was measured at indicated distances directly below the center of the LED array.

Test Location	Measured Irradiance (mW/cm <sup>2</sup> )	Illuminance (lx)
6" below	28.31	6775
12" below	22.71	7228





## Report of Test

**LLIA002350-001**

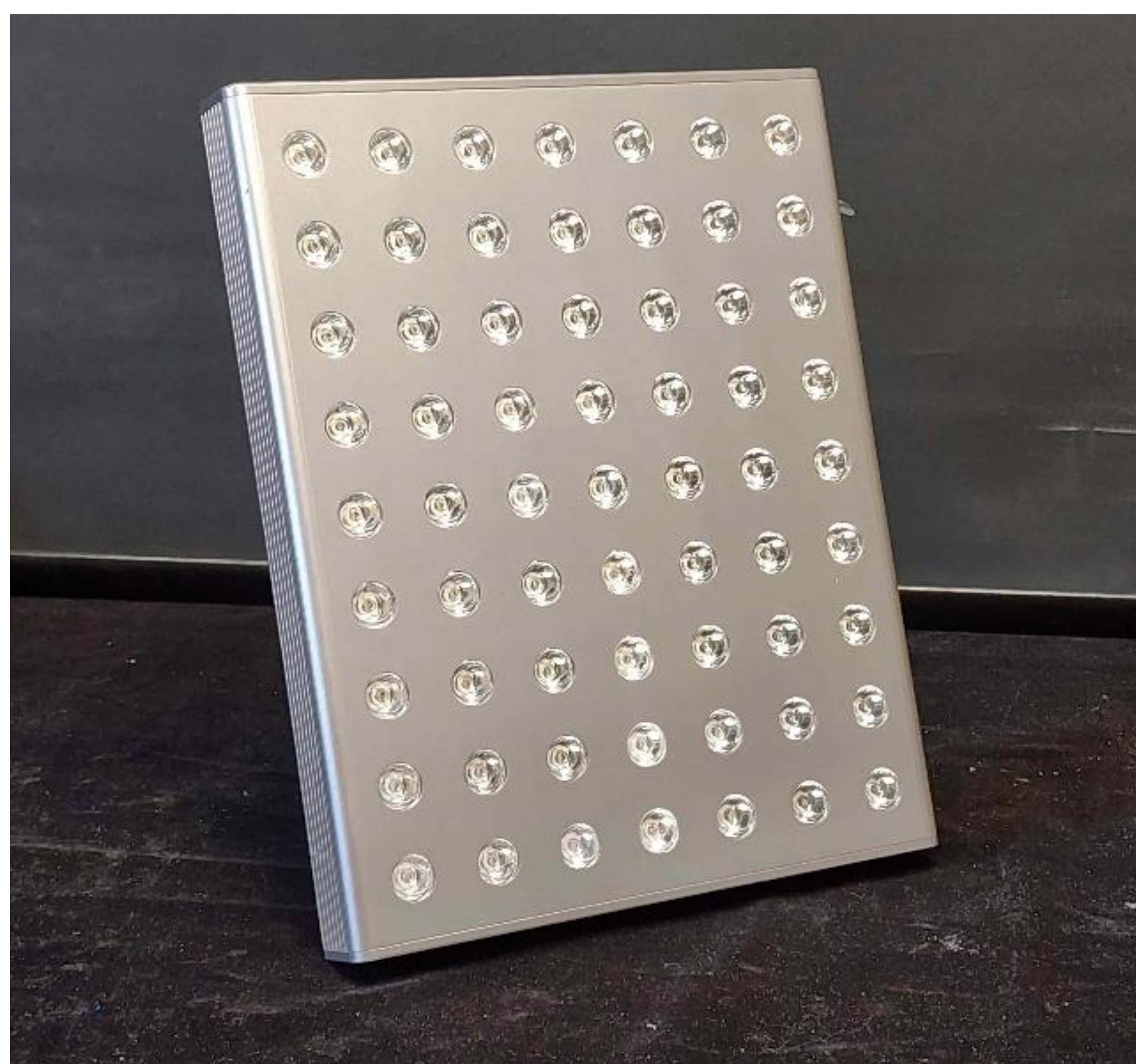
Integrating Sphere Report

Catalog Number: LED Panel Sample

Portable, formed steel housing, aluminum heatsink plate with 2 fans.

63 LEDs, 32 red and 31 near infrared LEDs with clear plastic optics below each

One MerryKing MKI-1900500C8 AC/DC Adapter



### Performance Summary

Voltage	120.0 Vac
Current	1.029 A
Power	67.41 W
Frequency	59.99 Hz
Power Factor	0.546
Current THD	148.9 %
Total Luminous Flux	756.7 lm
Efficacy	11.2 lm/W
Chromaticity (x,y)	(0.7172, 0.2793)
	(u',v')
	(0.5833, 0.5112)
Duv	N/A
CCT	N/A K
CRI (Ra)	N/A
R9	N/A
TM-30: Rf	N/A
TM-30: Rg	N/A
TM-30: Rcs,h1	N/A

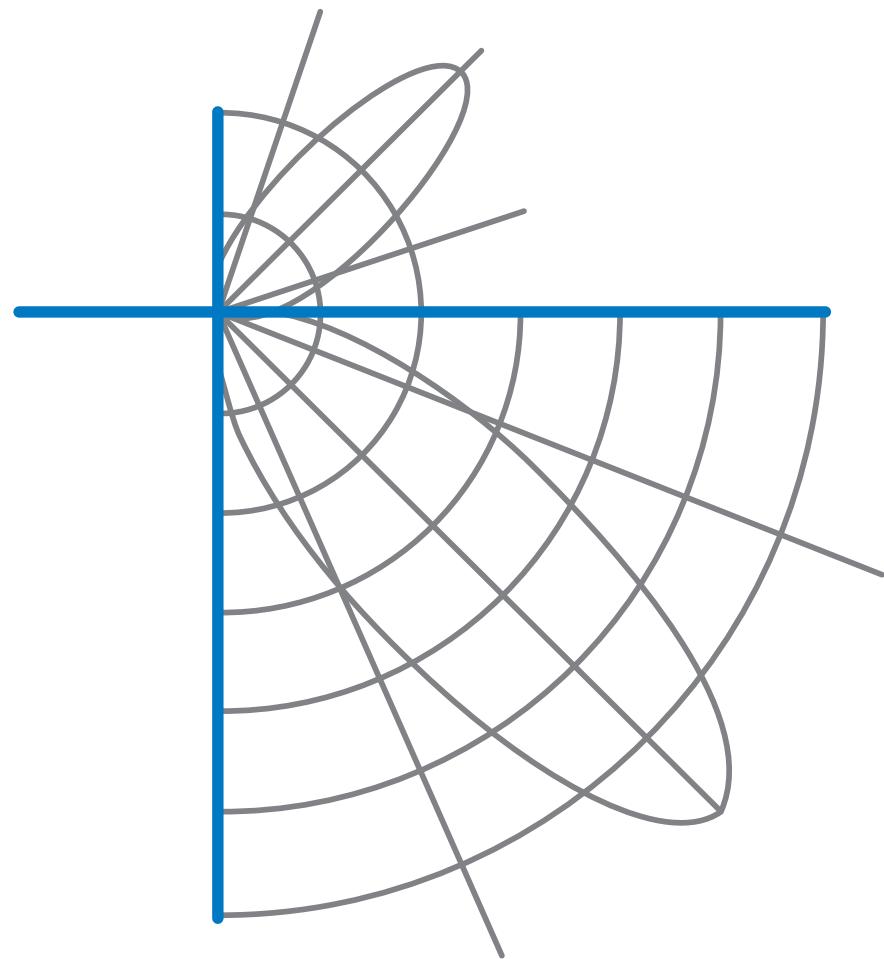
Note: Values marked "N/A" do not yield a meaningful result for the spectral power distribution measured.

Prepared For:

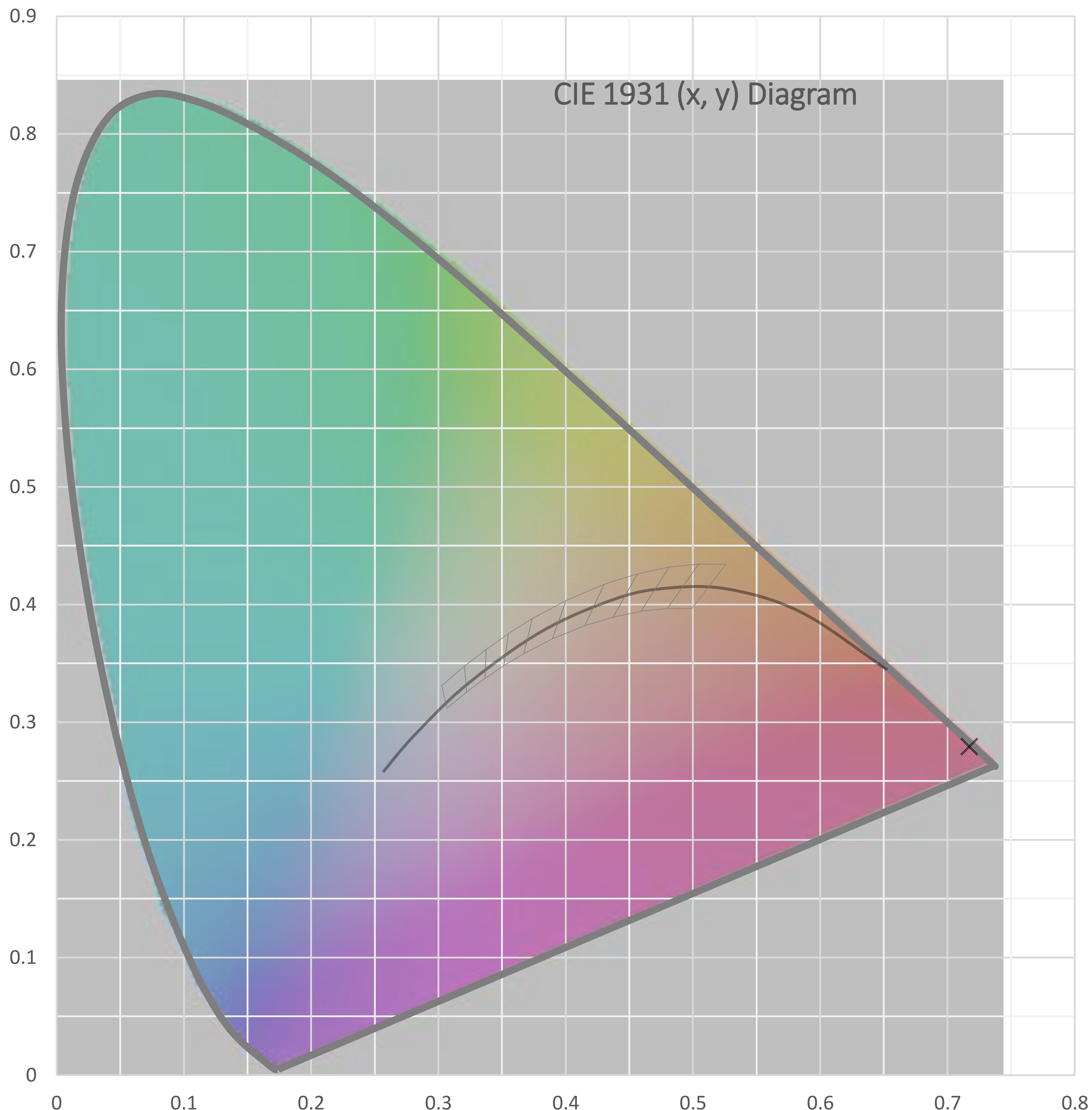
Fringe, Inc.

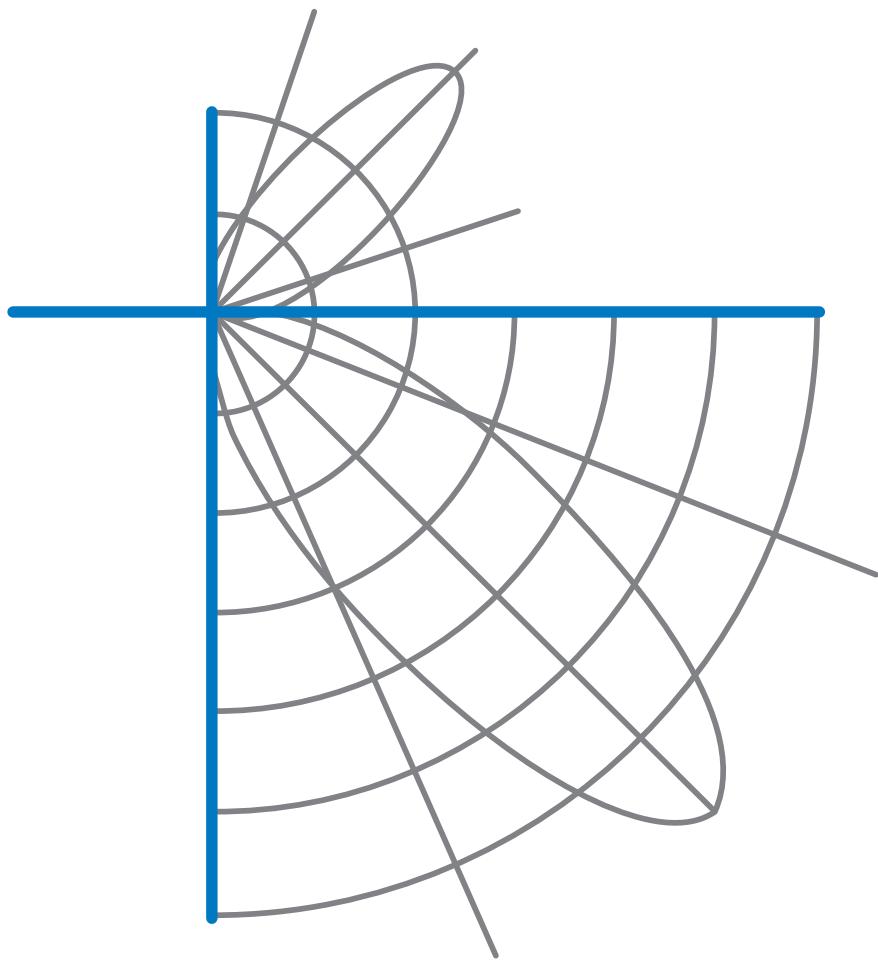
Test date: 04/04/2024  
Report date: 04/08/2024

Signed: Michael L. Grather  
Digitally signed by  
Michael L. Grather  
Date: 2024.04.26  
16:41:18 -04'00'



Test Report Number: LLIA002350-001





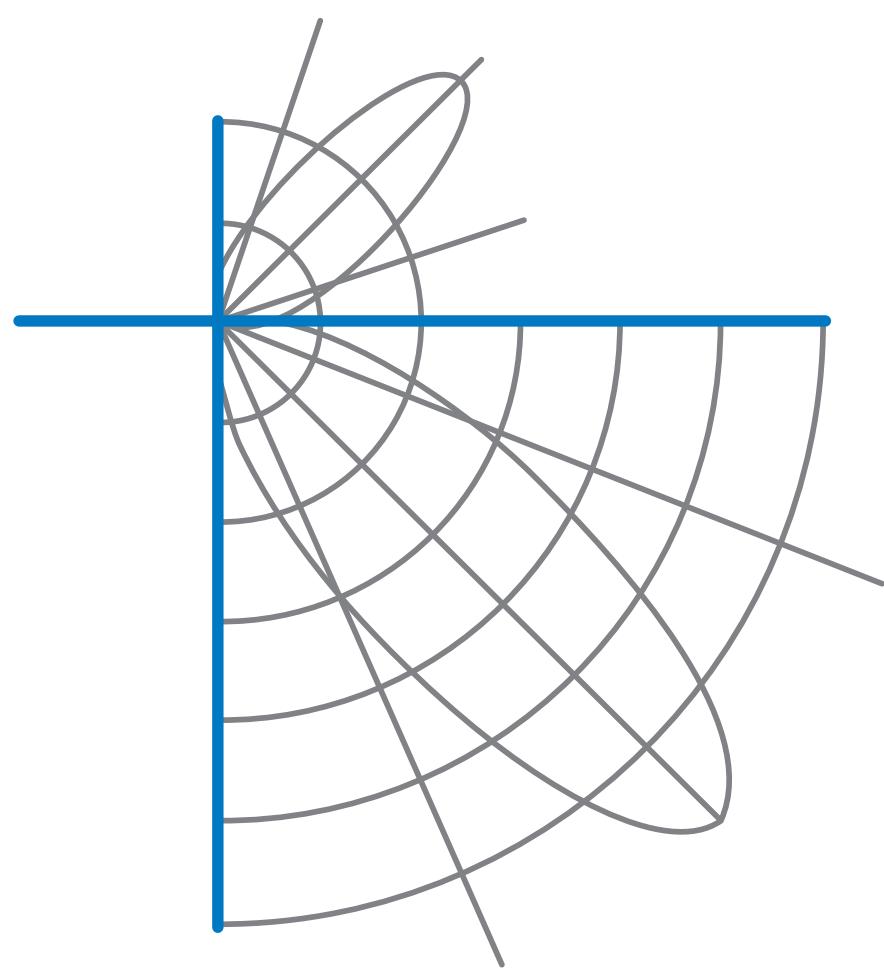
Test Report Number: LLIA002350-001

Total Radiant Flux	22.06 W
Total Luminous Flux	756.7 Lm
Chromaticity CIE 1931 (x, y)	(0.7172, 0.2793)
Chromaticity CIE 1976 (u', v')	(0.5833, 0.5112)
Correlated Color Temperature (CCT)	N/A K
Color Rendering Index (Ra)	N/A
R1	N/A
R2	N/A
R3	N/A
R4	N/A
R5	N/A
R6	N/A
R7	N/A
R8	N/A
R9	N/A
R10	N/A
R11	N/A
R12	N/A
R13	N/A
R14	N/A
TM-30: Rf	N/A
TM-30: Rg	N/A
TM-30: Rcs,h1	N/A
Distance from Planckian Locus (Duv)	N/A
Scotopic/Photopic Ratio ‡	0.050

Note: Values marked "N/A" do not yield a meaningful result for the spectral power distribution measured.

**Electrical Data**

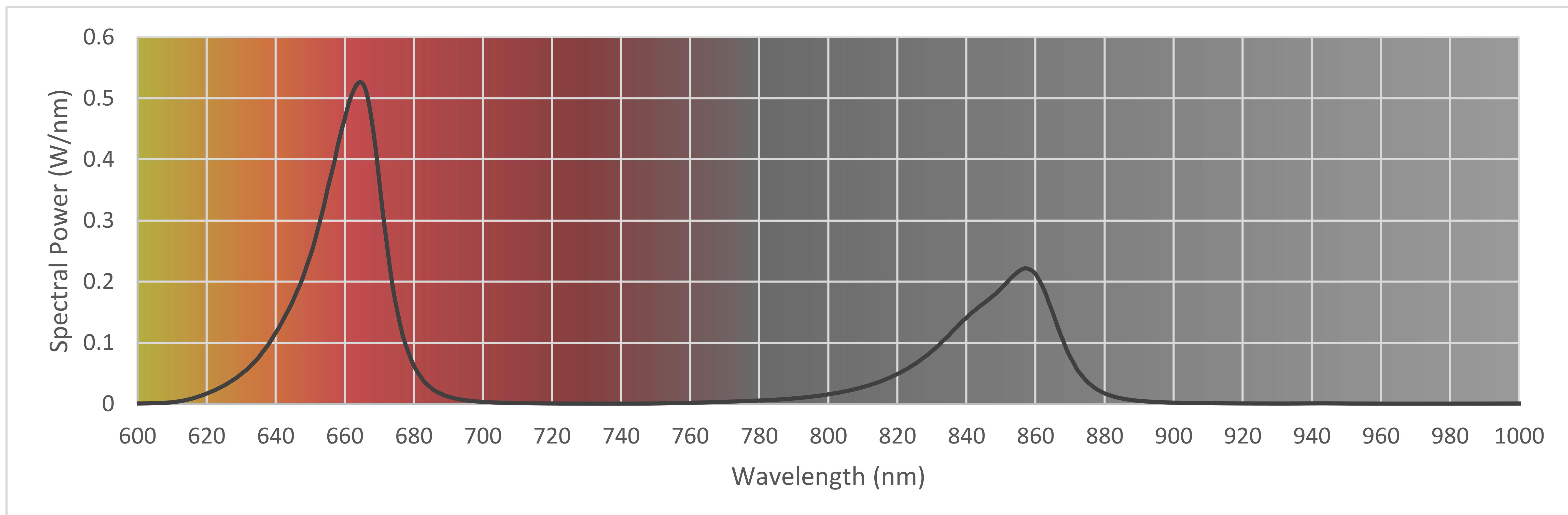
Voltage	120.0 Vac
Current	1.029 A
Power	67.41 W
Frequency	59.99 Hz
Power Factor	0.546
Current THD	148.9 %



Test Report Number: LLIA002350-001

Summary Spectral Power Distribution (wavelength - nm, spectral power - W/nm)

600	0.000664	700	0.003327	800	0.015538	900	0.002032
605	0.001103	705	0.001967	805	0.020683	905	0.001437
610	0.002682	710	0.001275	810	0.027529	910	0.001087
615	0.007607	715	0.000906	815	0.036447	915	0.000878
620	0.016876	720	0.000698	820	0.048754	920	0.000740
625	0.029892	725	0.000565	825	0.065073	925	0.000661
630	0.048931	730	0.000496	830	0.086393	930	0.000613
635	0.075666	735	0.000456	835	0.112534	935	0.000649
640	0.116470	740	0.000457	840	0.140815	940	0.000802
645	0.168984	745	0.000537	845	0.164364	945	0.000809
650	0.242319	750	0.000736	850	0.188891	950	0.000666
655	0.351248	755	0.001144	855	0.216328	955	0.000554
660	0.467030	760	0.001717	860	0.212899	960	0.000464
665	0.525151	765	0.002455	865	0.149599	965	0.000448
670	0.363994	770	0.003364	870	0.077587	970	0.000422
675	0.157382	775	0.004396	875	0.036055	975	0.000429
680	0.062297	780	0.005457	880	0.017299	980	0.000448
685	0.026275	785	0.006886	885	0.008930	985	0.000489
690	0.011836	790	0.008957	890	0.005006	990	0.000531
695	0.005940	795	0.011715	895	0.003066	995	0.000576
						1000	0.000635



*North America (issuing laboratory)*

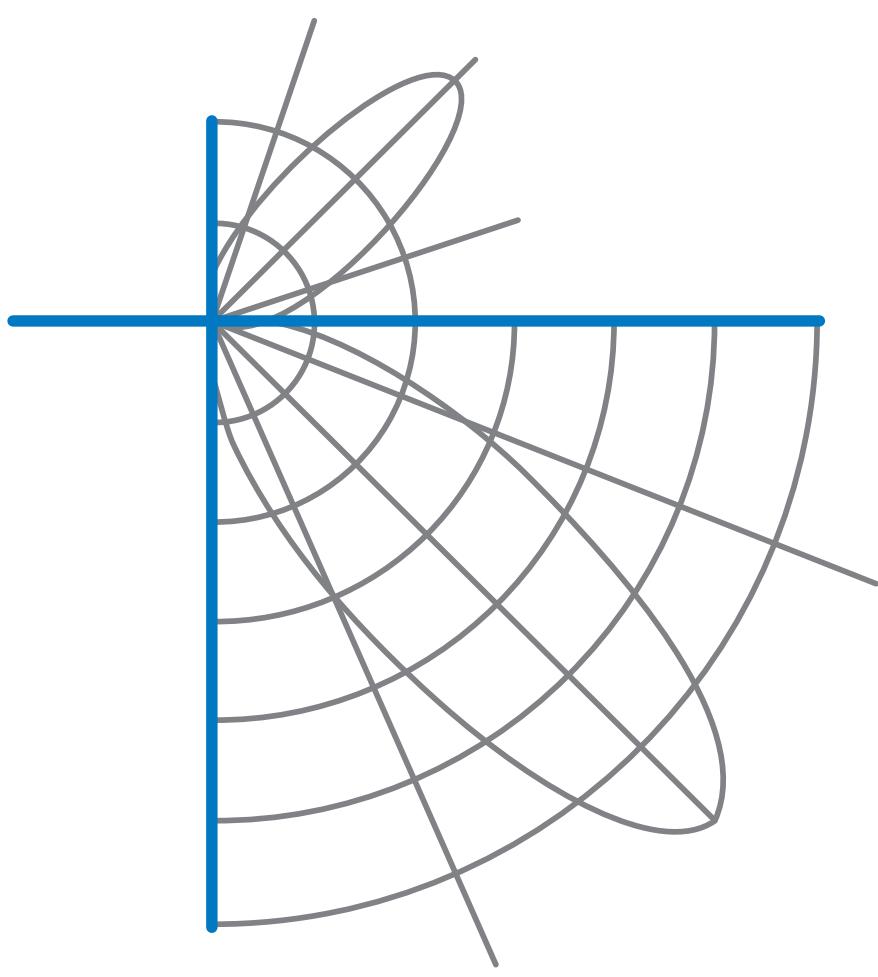
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## Test Report Number: LLIA002350-001

Test Equipment Configuration: LightLab International Allentown 2m Integrating Sphere  
Measurements acquired using a Labsphere CDS 2600 spectroradiometer  
Testing was performed using  $4\pi$  geometry

Test Temperature: 24.7 °C

Test Procedure: Tested in accordance with the applicable sections of:  
LM-79-19, LM-78-20, LM-58-20, ANSI\_ANSLG C78.377-2017, TM-30-20

Significance: The laboratory has not participated in the selection of samples to be tested.  
All testing is performed on the understanding that the significance of the report  
is limited to the extent that the test sample is representative of production units.

Notes: The measurements and other derived quantities contained in this report  
are based on the absolute data as measured.

Prorating the performance of the sample for the use of other component  
combinations (such as lamp / LED / Ballast / driver), or for use in different  
environmental conditions than that tested, may produce erroneous results.

This report is free of erasures and corrections

This report may contain data that are not covered by the NVLAP accreditation.  
Quantities marked with ‡ are not covered.

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or endorsement by NVLAP, NIST, or any agency of the Federal Government.