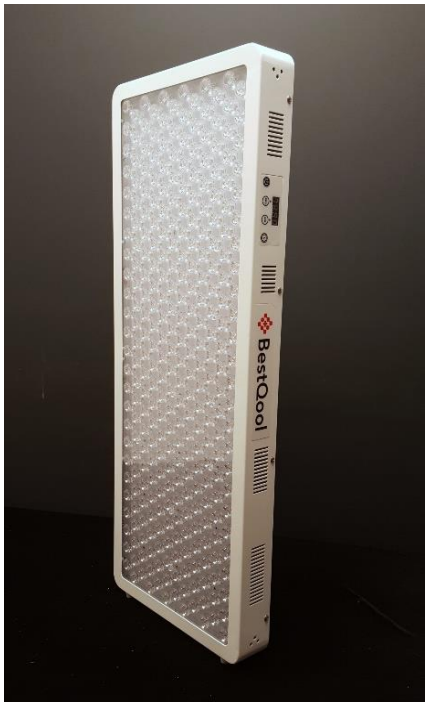
LightLab INTERNATIONAL ALLENTOWN LLC

# Radiant Flux Test Report

## LLIA003059-001A-R01*

Catalog Number: Pro300
Portable, formed steel housing, flat aluminum panel with 3
cooling fans behind LEDs, clear plastic enclosure.
300 dual chip LEDs, 150 "630+940nm" and 150 "660+850nm" LEDs, each with a clear plastic optic.
6 JC-CC100FS LED drivers and one XJS-12W-S fan power supply




**Performance Summary**

| | | |
|---|---|---|
| Total Radiometric (350-1700nm) | | |
| Total Radiant Flux | 133.00 | W |
| Radiant Efficiency | 29.1 | % ($W_r/W_e$) |
| Radiometric Range: 570-1100nm | | |
| Radiant Flux (570-1100nm) | 132.94 | W |
| Red/Total Red Ratio* | 99.3 | % |
| Deep Red/Total Red Ratio* | 0.7 | % |
| NIR/Total NIR Ratio* | 56.1 | % |
| Deep NIR/Total NIR Ratio* | 43.9 | % |

*Note: In this report, Red spans the wavelength range 600-700nm, Deep Red spans 700-780nm, Total Red spans 600-780nm, NIR spans 780-900nm, Deep NIR spans 900-1100nm, and Total NIR spans 780-1100nm.

| | | |
|---|---|---|
| Peak Wavelength(s) | 634, 662, 859, 960 | nm |
| Luminous Flux | 8034.6 | Lumens |
| Luminous Efficacy | 17.6 | Lm/W |

Prepared For:
Vortexlife Limited
Room 107
224 Queen's Road Central
Kai Wong Commercial Building
Hong Kong, 999077
*This test report supersedes test report LLIA003059-001A

Test date: 09/16/2026
Report date: 10/22/2026

Signed: Michael L. Grather Digitally signed by Michael L. Grather Date: 2026.10.23 12:55:12 -04'00'

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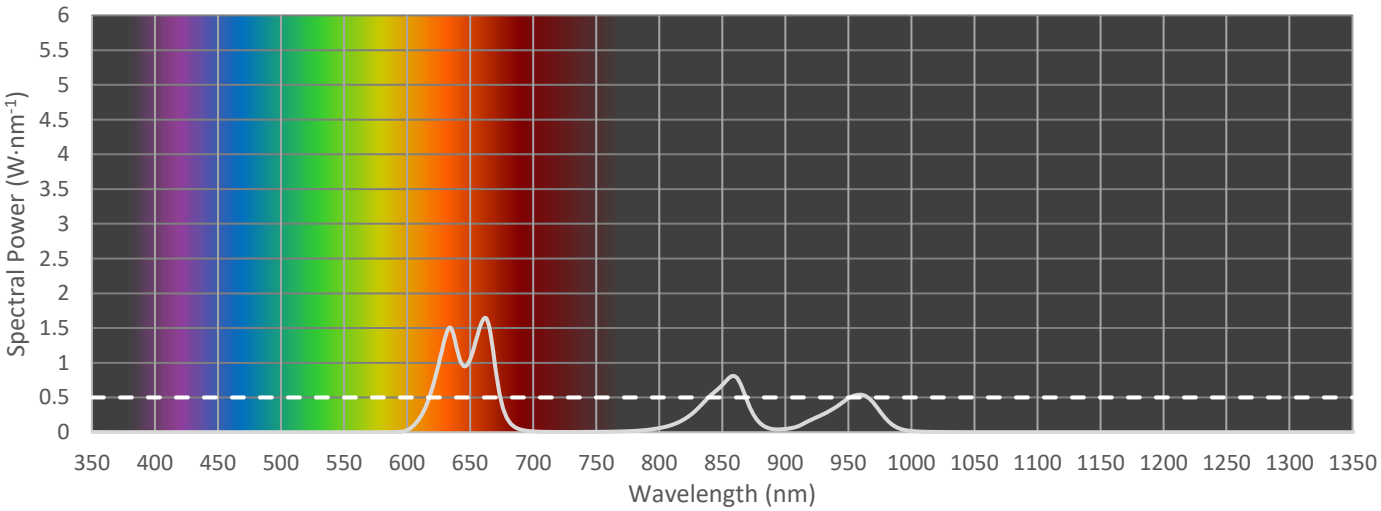
# Test Report Number: LLIA003059-001A-R01*

| Radiant Flux Tabulation | | | |
|---|---|---|---|
| Waveband (nm) | Radiant Flux ($W_r$) | Percent of Total | Efficiency ($W_r/W_e$) |
| 350-500 | 0.06 | 0.0% | 0.000 |
| 500-570 | 0.00 | 0.0% | 0.000 |
| Amber 570-600 | 0.12 | 0.1% | 0.000 |
| Red 600-700 | 72.40 | 54.4% | 0.158 |
| Deep Red 700-780 | 0.50 | 0.4% | 0.001 |
| NIR 780-900 | 33.64 | 25.3% | 0.073 |
| Deep NIR 900-1100 | 26.29 | 19.8% | 0.057 |
| 570-1100 | 132.94 | 100.0% | 0.290 |
| Total 350-1700 | 133.00 | 100.0% | 0.291 |



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# Test Report Number: LLIA003059-001A-R01*

**Electrical Data**

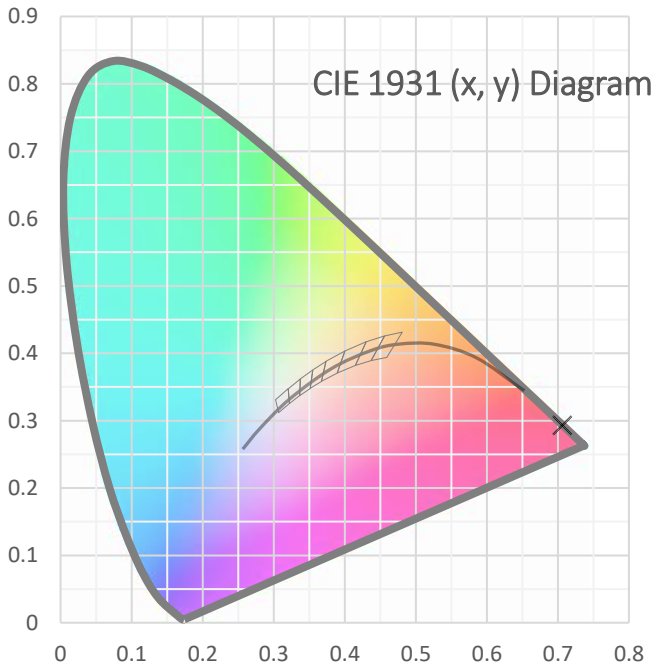
| | | |
|---|---|---|
| Voltage | 120.0 | Vac |
| Current | 3.843 | A |
| Power | 457.8 | W |
| Frequency | 60.00 | Hz |
| Power Factor | 0.993 | |
| Current THD | 9.3 | % |

**Spectral Power of Select Wavelengths**

| Wavelength (nm) | Spectral Power ($W \cdot nm^{-1}$) |
|---|---|
| 590 | 0.0024 |
| 630 | 1.3462 |
| 660 | 1.6097 |
| 810 | 0.1051 |
| 830 | 0.3302 |
| 850 | 0.6788 |
| 1064 | 0.0000 |

**Photometric (Human Vision) Data**

| | | | |
|---|---|---|---|
| Total Luminous Flux | | 8034.6 | lm |
| Luminous Efficacy | | 17.6 | lm/W |
| Chromaticity | (x,y) | (0.7064, 0.2930) | |
| | (u',v') | (0.5537, 0.5167) | |
| Duv | | n/a | |
| CCT | | n/a | K |
| CRI (Ra) | | n/a | |
| R9 | | n/a | |
| TM-30: Rf | | n/a | |
| TM-30: Rg | | n/a | |

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# Test Report Number: LLIA003059-001A-R01*

| | |
|---|---|
| Test Equipment Configuration: | Measurements acquired using the LightLab International Allentown, LLC Labsphere 2m Integrating Sphere system with spectroradiometer.<br>Testing was performed using 4π geometry |
| Test Temperature: | 25.3 °C |
| Test Procedure: | Tested in accordance with the applicable sections of:<br>LM-79-24, LM-78-20, LM-58-20, ANSI_ANSLG C78.377-2017, TM-30-24 |
| Significance: | The laboratory has not participated in the selection of samples to be tested.<br>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.<br><br>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.<br><br>This report is free of erasures and corrections<br><br>This report may contain data that are not covered by the NVLAP accreditation.<br>Quantities marked with ǂ are not covered. |

Revisions:

R01 - 10/22/2026 - Modified scale of SPD plot and added 0.5 W/nm line

LightLab
INTERNATIONAL
ALLENTOWN LLC

# Radiant Flux Stabilization Report

## LLIA003059-001B-R01*

Catalog Number: Pro300
Portable, formed steel housing, flat aluminum panel with 3
cooling fans behind LEDs, clear plastic enclosure.
300 dual chip LEDs, 150 "630+940nm" and 150 "660+850nm" LEDs, each with a clear plastic optic.
6 JC-CC100FS LED drivers and one XJS-12W-S fan power supply




Test Equipment:

Irradiance measurements were acquired with LightLab asset A108-Gigahertz-Optik BTS2048-VL-TEC Spectral Irradiance Meter using LightLab's Application Distance Measurement Grid in the LightLab goniometer room with stray light reduction. Spectral irradiance was recorded in one-minute intervals during stabilization.

Prepared For:
Vortexlife Limited
Room 107
Kai Wong Commercial Building
Hong Kong, 999077, USA
*This test report supersedes test report LLIA003059-001B

Test date: 09/16/2026
Report date: 10/22/2026

LightLab INTERNATIONAL ALLENTOWN LLC

# Test Report Number: LLIA003059-001B-R01*

Spectral Irradiance measurements taken 12" above the center of the panel.

| Time (minutes) | Irradiance (570-1100nm) (mW/cm2) | Irradiance (600-780nm) (mW/cm2) | Irradiance (780-1100nm) (mW/cm2) |
|---|---|---|---|
| 0.5 | 51.3 | 27.8 | 23.4 |
| 1.5 | 50.1 | 27.2 | 22.9 |
| 2.5 | 49.3 | 26.8 | 22.5 |
| 3.5 | 48.8 | 26.5 | 22.3 |
| 4.5 | 48.3 | 26.2 | 22.1 |
| 5.5 | 48.1 | 26.0 | 22.0 |
| 6.5 | 47.7 | 25.8 | 21.8 |
| 7.5 | 47.5 | 25.7 | 21.8 |
| 8.5 | 47.4 | 25.6 | 21.7 |
| 9.5 | 47.2 | 25.5 | 21.6 |
| 10.5 | 47.1 | 25.5 | 21.6 |
| 11.5 | 47.0 | 25.4 | 21.6 |
| 12.5 | 47.0 | 25.4 | 21.6 |
| 13.5 | 46.9 | 25.3 | 21.5 |
| 14.5 | 46.8 | 25.3 | 21.5 |
| 15.5 | 46.7 | 25.2 | 21.5 |
| 16.5 | 46.7 | 25.2 | 21.4 |
| 17.5 | 46.6 | 25.2 | 21.4 |
| 18.5 | 46.6 | 25.1 | 21.4 |
| 19.5 | 46.5 | 25.1 | 21.4 |

| 15 Minute 570-1100nm Irradiance Retention |
|---|
| 91.2% |

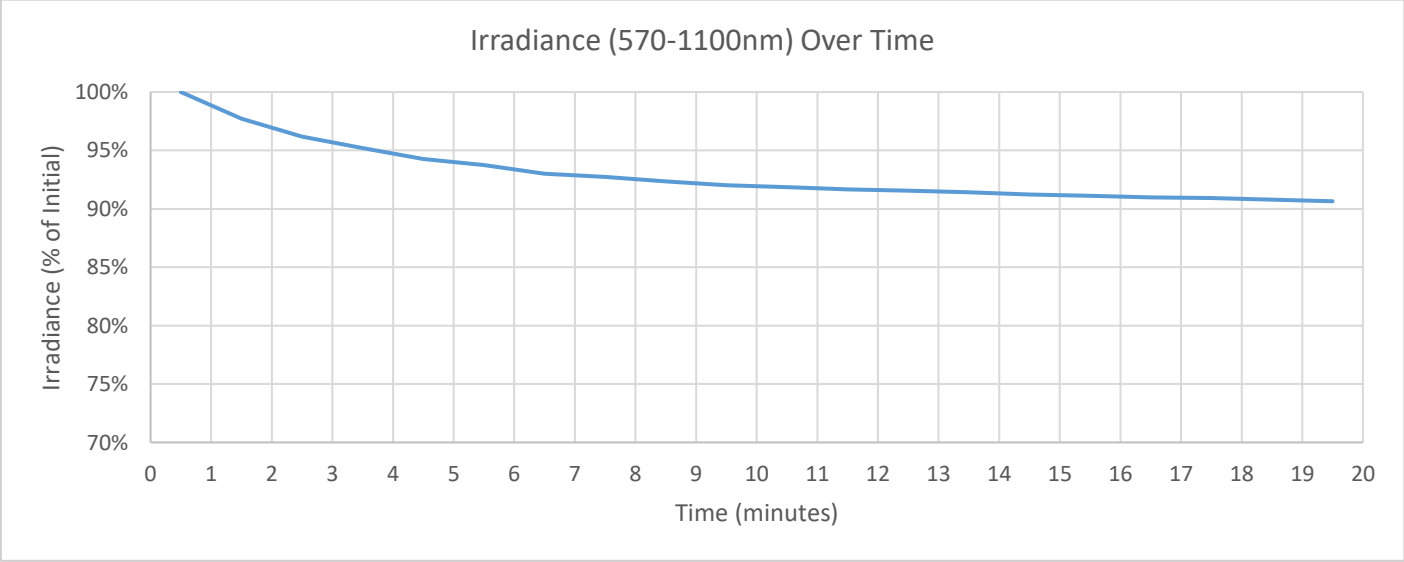
| 20 Minute 570-1100nm Irradiance Retention |
|---|
| 90.6% |

| 15 Minute 600-780nm Irradiance Retention |
|---|
| 90.8% |

| 20 Minute 600-780nm Irradiance Retention |
|---|
| 90.2% |

| 15 Minute 780-1100nm Irradiance Retention |
|---|
| 91.8% |

| 20 Minute 780-1100nm Irradiance Retention |
|---|
| 91.3% |





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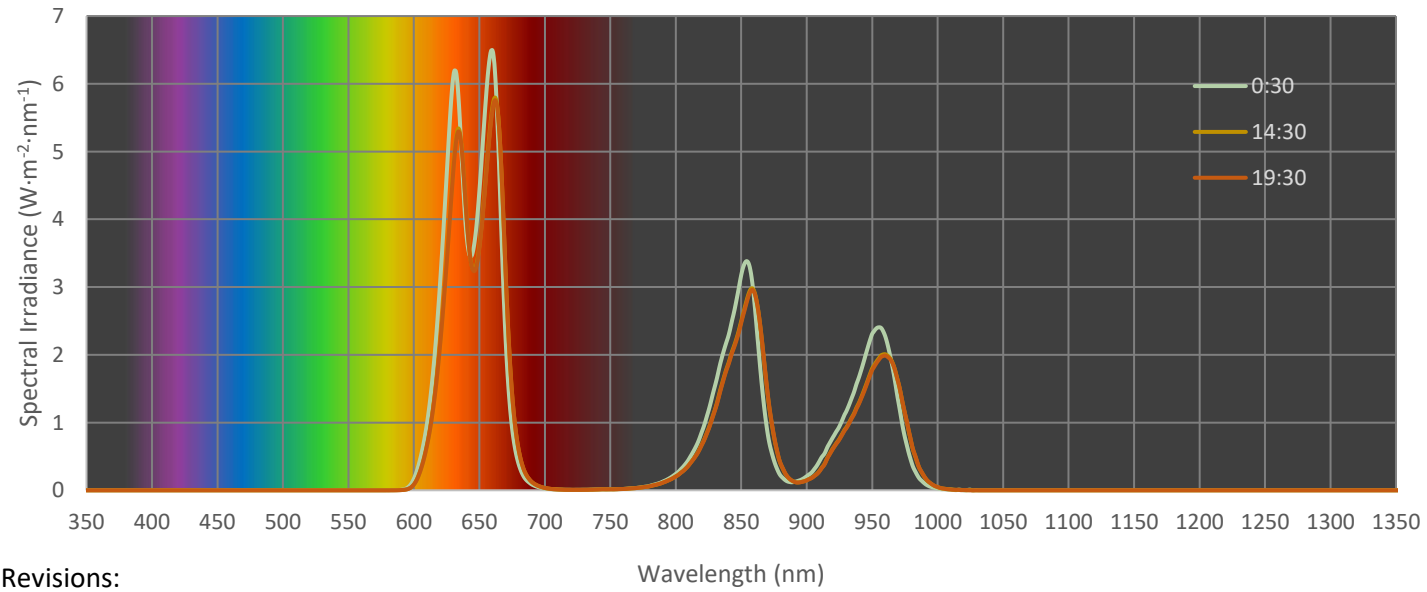
LightLab INTERNATIONAL ALLENTOWN LLC

# Test Report Number: LLIA003059-001B-R01*

Spectral Irradiance measurements taken 12" above the center of the panel.

| Local Peak Number | 0.5 min peak wavelength (nm) | 14.5 min peak wavelength (nm) | 19.5 min peak wavelength (nm) |
|---|---|---|---|
| 1 | 631 | 634 | 634 |
| 2 | 660 | 662 | 662 |
| 3 | 854 | 858 | 858 |
| 4 | 956 | 959 | 960 |




Revisions:

R01 - 10/22/2026 - Modified scale of Irrad retention plot. Fixed typo on "full spectral range" irrad retention labels.

LightLab INTERNATIONAL ALLENTOWN LLC

# Grid Application Distance Measurement Test Report

## Test Report Number: LLIA003059-001C-R01*

Catalog Number: Pro300

Portable, formed steel housing, flat aluminum panel with 3
cooling fans behind LEDs, clear plastic enclosure.

300 dual chip LEDs, 150 "630+940nm" and 150 "660+850nm" LEDs, each with a clear plastic optic.

6 JC-CC100FS LED drivers and one XJS-12W-S fan power supply




**Performance Summary**

| | | |
|---|---|---|
| Electrical | | |
| Voltage | 120.0 | Vac |
| Current | 3.877 | A |
| Power | 461.4 | W |
| Frequency | 60.00 | Hz |
| Power Factor | 0.992 | |
| Current THD | 9.4 | % |
| Ambient Temperature | 24.9 | °C |
| Grid Dimensions | | |
| Test Plane Distance | 12 | inches |
| X Axis minimum | -12 | inches |
| X Axis maximum | 12 | inches |
| X Axis increments | 2 | inches |
| Y Axis minimum | -30 | inches |
| Y Axis maximum | 30 | inches |
| Y Axis increments | 2 | inches |
| Number of measurement points | 403 | |

Test Equipment:

Irradiance measurements were acquired with LightLab asset A108-Gigahertz-Optik BTS2048-VL-TEC Spectral Irradiance Meter using LightLab's Application Distance Measurement Grid in the LightLab goniometer room with stray light reduction. The test subject was allowed to reach stabilization according to IES LM-79-24 criteria prior to measurements.

Prepared For:
Vortexlife Limited
Room 107
Kai Wong Commercial Building
Hong Kong, 999077, USA

*This test report supersedes test report LLIA003059-001C

Test date: 09/16/2026

Report date: 10/22/2026

LightLab INTERNATIONAL ALLENTOWN LLC

# Test Report Number: LLIA003059-001C-R01*

## Full Body Target Area
## Total Irradiance (570-1100nm) in mW/cm^2
## Test Distance = 12 inches

X Axis Distance (inches)

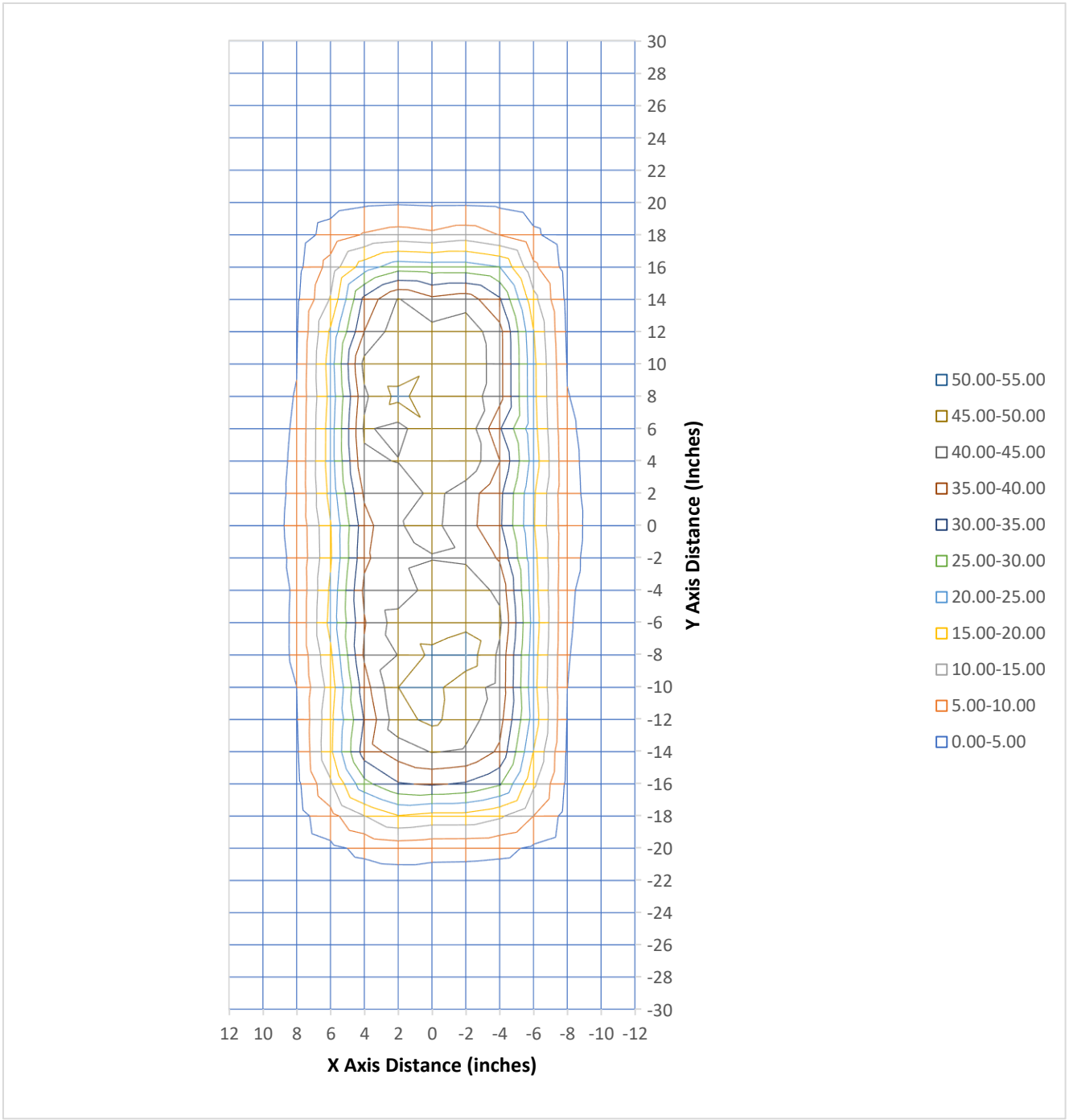
| Y Axis Distance (inches) | -12 | -10 | -8 | -6 | -4 | -2 | 0 | 2 | 4 | 6 | 8 | 10 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 30 | 0.48 | 0.51 | 0.54 | 0.56 | 0.59 | 0.60 | 0.61 | 0.60 | 0.58 | 0.56 | 0.53 | 0.49 | 0.45 |
| 28 | 0.56 | 0.61 | 0.66 | 0.71 | 0.75 | 0.77 | 0.78 | 0.76 | 0.73 | 0.69 | 0.65 | 0.59 | 0.53 |
| 26 | 0.66 | 0.76 | 0.83 | 0.91 | 1.00 | 1.06 | 1.08 | 1.05 | 0.99 | 0.91 | 0.81 | 0.72 | 0.63 |
| 24 | 0.81 | 0.95 | 1.12 | 1.25 | 1.42 | 1.49 | 1.48 | 1.45 | 1.36 | 1.24 | 1.10 | 0.92 | 0.77 |
| 22 | 0.97 | 1.24 | 1.47 | 1.76 | 1.98 | 2.17 | 2.17 | 2.08 | 2.05 | 1.71 | 1.41 | 1.18 | 0.94 |
| 20 | 1.21 | 1.53 | 1.95 | 3.13 | 4.16 | 4.49 | 4.23 | 4.25 | 3.97 | 2.85 | 1.92 | 1.47 | 1.18 |
| 18 | 1.48 | 1.93 | 2.56 | 6.85 | 10.41 | 11.78 | 10.84 | 12.37 | 9.88 | 5.78 | 2.41 | 1.83 | 1.41 |
| 16 | 1.78 | 2.27 | 3.39 | 12.01 | 22.65 | 27.74 | 27.22 | 27.19 | 25.06 | 11.05 | 3.14 | 2.19 | 1.68 |
| 14 | 2.06 | 2.64 | 4.07 | 15.40 | 36.32 | 45.26 | 41.08 | 42.72 | 35.58 | 16.60 | 3.76 | 2.52 | 1.94 |
| 12 | 2.28 | 2.98 | 4.53 | 20.69 | 40.04 | 48.13 | 46.61 | 48.19 | 41.75 | 20.22 | 4.22 | 2.89 | 2.16 |
| 10 | 2.42 | 3.24 | 4.84 | 22.34 | 46.57 | 46.50 | 49.09 | 49.94 | 41.81 | 21.23 | 4.72 | 3.16 | 2.35 |
| 8 | 2.54 | 3.45 | 5.17 | 21.57 | 44.06 | 51.52 | 46.85 | 47.99 | 41.83 | 21.31 | 5.12 | 3.39 | 2.49 |
| 6 | 2.64 | 3.61 | 5.35 | 22.39 | 45.69 | 43.36 | 49.19 | 49.00 | 35.54 | 21.80 | 5.55 | 3.49 | 2.53 |
| 4 | 2.69 | 3.67 | 5.48 | 22.47 | 44.15 | 45.21 | 45.21 | 48.90 | 40.12 | 22.80 | 5.81 | 3.55 | 2.57 |
| 2 | 2.72 | 3.65 | 5.62 | 21.55 | 40.78 | 40.41 | 46.57 | 42.41 | 36.35 | 20.71 | 5.92 | 3.62 | 2.56 |
| 0 | 2.69 | 3.70 | 5.77 | 19.65 | 38.17 | 44.72 | 46.28 | 41.99 | 35.93 | 20.43 | 6.17 | 3.59 | 2.55 |
| -2 | 2.69 | 3.62 | 5.58 | 19.36 | 39.08 | 43.86 | 44.81 | 44.40 | 39.45 | 21.63 | 5.91 | 3.57 | 2.56 |
| -4 | 2.66 | 3.67 | 5.33 | 20.78 | 41.01 | 41.55 | 47.51 | 47.44 | 44.05 | 22.24 | 5.45 | 3.56 | 2.59 |
| -6 | 2.64 | 3.64 | 5.39 | 21.48 | 39.63 | 47.59 | 47.20 | 48.73 | 46.07 | 22.98 | 5.31 | 3.48 | 2.56 |
| -8 | 2.56 | 3.55 | 5.39 | 18.99 | 40.69 | 45.12 | 51.30 | 53.17 | 43.94 | 22.16 | 5.15 | 3.47 | 2.55 |
| -10 | 2.46 | 3.48 | 4.99 | 17.08 | 37.69 | 49.96 | 51.68 | 46.71 | 43.76 | 21.72 | 5.01 | 3.31 | 2.45 |
| -12 | 2.30 | 3.23 | 4.68 | 18.50 | 35.28 | 48.37 | 51.17 | 47.19 | 41.92 | 22.77 | 4.74 | 3.14 | 2.28 |
| -14 | 2.13 | 2.91 | 4.25 | 18.97 | 37.36 | 42.25 | 45.20 | 44.38 | 39.13 | 19.83 | 4.35 | 2.85 | 2.10 |
| -16 | 1.87 | 2.53 | 3.69 | 14.19 | 28.48 | 34.53 | 35.54 | 34.40 | 30.62 | 15.87 | 3.95 | 2.50 | 1.86 |
| -18 | 1.63 | 2.13 | 2.92 | 8.31 | 14.82 | 19.65 | 18.21 | 18.18 | 15.74 | 9.98 | 3.20 | 2.14 | 1.64 |
| -20 | 1.36 | 1.77 | 2.27 | 3.95 | 6.07 | 7.08 | 6.55 | 6.47 | 6.13 | 4.29 | 2.39 | 1.75 | 1.38 |
| -22 | 1.13 | 1.42 | 1.74 | 2.22 | 2.79 | 3.01 | 3.02 | 2.95 | 2.72 | 2.36 | 1.80 | 1.45 | 1.17 |
| -24 | 0.95 | 1.14 | 1.36 | 1.56 | 1.71 | 1.86 | 1.92 | 1.86 | 1.71 | 1.57 | 1.37 | 1.17 | 0.96 |
| -26 | 0.80 | 0.95 | 1.06 | 1.18 | 1.30 | 1.38 | 1.40 | 1.38 | 1.29 | 1.17 | 1.05 | 0.94 | 0.81 |
| -28 | 0.67 | 0.77 | 0.85 | 0.92 | 0.97 | 1.01 | 1.04 | 1.02 | 0.95 | 0.90 | 0.84 | 0.76 | 0.68 |
| -30 | 0.58 | 0.65 | 0.70 | 0.75 | 0.78 | 0.80 | 0.81 | 0.79 | 0.76 | 0.73 | 0.69 | 0.64 | 0.59 |

| | | | |
|---|---|---|---|
| Center Point Irradiance | 46.28 | mW/cm$^2$ | |
| Maximum Irradiance | 53.17 | mW/cm$^2$ | |
| Minimum Irradiance | 0.45 | mW/cm$^2$ | |
| Standard Deviation | 16.59 | mW/cm$^2$ | |
| Coefficient of Variation | 131.9 | % | |
| Target Area Radiant Power | 129.2 | W | |
| Average Irradiance | 13.91 | mW/cm$^2$ | |
| Percent area over 20mW/cm$^2$ | 27.5 | % | |
| Percent area over 30mW/cm$^2$ | 21.5 | % | |
| Percent area over 40mW/cm$^2$ | 15.2 | % | |

# Report of Test

Test Report Number: LLIA003059-001C-R01*

## Total Irradiance (570-1100nm) in mW/cm^2
## Test Distance = 12 inches



LightLab INTERNATIONAL ALLENTOWN LLC

# Test Report Number: LLIA003059-001C-R01*

Half Body Target Area
Total Irradiance (570-1100nm) in mW/cm^2
Test Distance = 12 inches

| Y Axis Distance (inches) \ X Axis Distance (inches) | -12 | -10 | -8 | -6 | -4 | -2 | 0 | 2 | 4 | 6 | 8 | 10 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 14 | 2.06 | 2.64 | 4.07 | 15.40 | 36.32 | 45.26 | 41.08 | 42.72 | 35.58 | 16.60 | 3.76 | 2.52 | 1.94 |
| 12 | 2.28 | 2.98 | 4.53 | 20.69 | 40.04 | 48.13 | 46.61 | 48.19 | 41.75 | 20.22 | 4.22 | 2.89 | 2.16 |
| 10 | 2.42 | 3.24 | 4.84 | 22.34 | 46.57 | 46.50 | 49.09 | 49.94 | 41.81 | 21.23 | 4.72 | 3.16 | 2.35 |
| 8 | 2.54 | 3.45 | 5.17 | 21.57 | 44.06 | 51.52 | 46.85 | 47.99 | 41.83 | 21.31 | 5.12 | 3.39 | 2.49 |
| 6 | 2.64 | 3.61 | 5.35 | 22.39 | 45.69 | 43.36 | 49.19 | 49.00 | 35.54 | 21.80 | 5.55 | 3.49 | 2.53 |
| 4 | 2.69 | 3.67 | 5.48 | 22.47 | 44.15 | 45.21 | 45.21 | 48.90 | 40.12 | 22.80 | 5.81 | 3.55 | 2.57 |
| 2 | 2.72 | 3.65 | 5.62 | 21.55 | 40.78 | 40.41 | 46.57 | 42.41 | 36.35 | 20.71 | 5.92 | 3.62 | 2.56 |
| 0 | 2.69 | 3.70 | 5.77 | 19.65 | 38.17 | 44.72 | 46.28 | 41.99 | 35.93 | 20.43 | 6.17 | 3.59 | 2.55 |
| -2 | 2.69 | 3.62 | 5.58 | 19.36 | 39.08 | 43.86 | 44.81 | 44.40 | 39.45 | 21.63 | 5.91 | 3.57 | 2.56 |
| -4 | 2.66 | 3.67 | 5.33 | 20.78 | 41.01 | 41.55 | 47.51 | 47.44 | 44.05 | 22.24 | 5.45 | 3.56 | 2.59 |
| -6 | 2.64 | 3.64 | 5.39 | 21.48 | 39.63 | 47.59 | 47.20 | 48.73 | 46.07 | 22.98 | 5.31 | 3.48 | 2.56 |
| -8 | 2.56 | 3.55 | 5.39 | 18.99 | 40.69 | 45.12 | 51.30 | 53.17 | 43.94 | 22.16 | 5.15 | 3.47 | 2.55 |
| -10 | 2.46 | 3.48 | 4.99 | 17.08 | 37.69 | 49.96 | 51.68 | 46.71 | 43.76 | 21.72 | 5.01 | 3.31 | 2.45 |
| -12 | 2.30 | 3.23 | 4.68 | 18.50 | 35.28 | 48.37 | 51.17 | 47.19 | 41.92 | 22.77 | 4.74 | 3.14 | 2.28 |
| -14 | 2.13 | 2.91 | 4.25 | 18.97 | 37.36 | 42.25 | 45.20 | 44.38 | 39.13 | 19.83 | 4.35 | 2.85 | 2.10 |

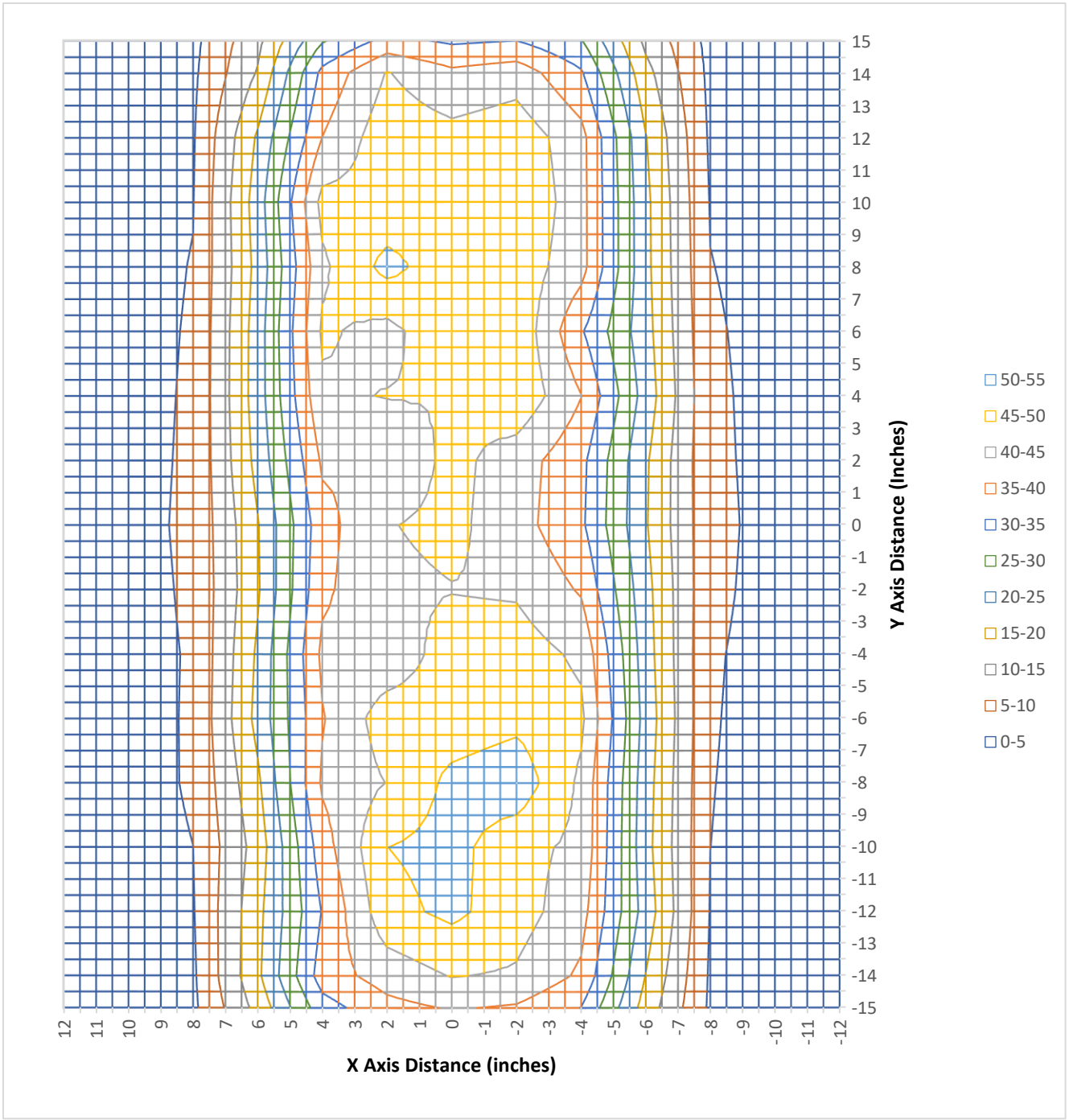
| | | | | |
|---|---|---|---|---|
| Center Point Irradiance | 46.28 | $mW/cm^2$ | Target Area Radiant Power | 108.5 W |
| Maximum Irradiance | 53.17 | $mW/cm^2$ | Average Irradiance | 23.36 $mW/cm^2$ |
| Minimum Irradiance | 1.94 | $mW/cm^2$ | Percent area over $20mW/cm^2$ | 49.6 % |
| Standard Deviation | 18.83 | $mW/cm^2$ | Percent area over $30mW/cm^2$ | 41.0 % |
| Coefficient of Variation | 86.2 | % | Percent area over $40mW/cm^2$ | 30.2 % |

LightLab INTERNATIONAL ALLENTOWN LLC

# Report of Test

Test Report Number: LLIA003059-001C-R01*

## Total Irradiance (570-1100nm) in mW/cm^2
## Test Distance = 12 inches



LightLab INTERNATIONAL ALLENTOWN LLC

# Test Report Number: LLIA003059-001C-R01*

Face Target Area
Total Irradiance (570-1100nm) in mW/cm^2
Test Distance = 12 inches

| Y Axis Distance (inches) \ X Axis Distance (inches) | -2 | 0 | 2 |
|---|---|---|---|
| 4 | 45.21 | 45.21 | 48.90 |
| 2 | 40.41 | 46.57 | 42.41 |
| 0 | 44.72 | 46.28 | 41.99 |
| -2 | 43.86 | 44.81 | 44.40 |
| -4 | 41.55 | 47.51 | 47.44 |

| | | | | | |
|---|---|---|---|---|---|
| Center Point Irradiance | 46.28 | mW/cm$^2$ | Target Area Radiant Power | 17.2 | W |
| Maximum Irradiance | 48.90 | mW/cm$^2$ | Average Irradiance | 44.47 | mW/cm$^2$ |
| Minimum Irradiance | 40.41 | mW/cm$^2$ | Percent area over 20mW/cm$^2$ | 100.0 | % |
| Standard Deviation | 2.41 | mW/cm$^2$ | Percent area over 30mW/cm$^2$ | 100.0 | % |
| Coefficient of Variation | 5.4 | % | Percent area over 40mW/cm$^2$ | 97.8 | % |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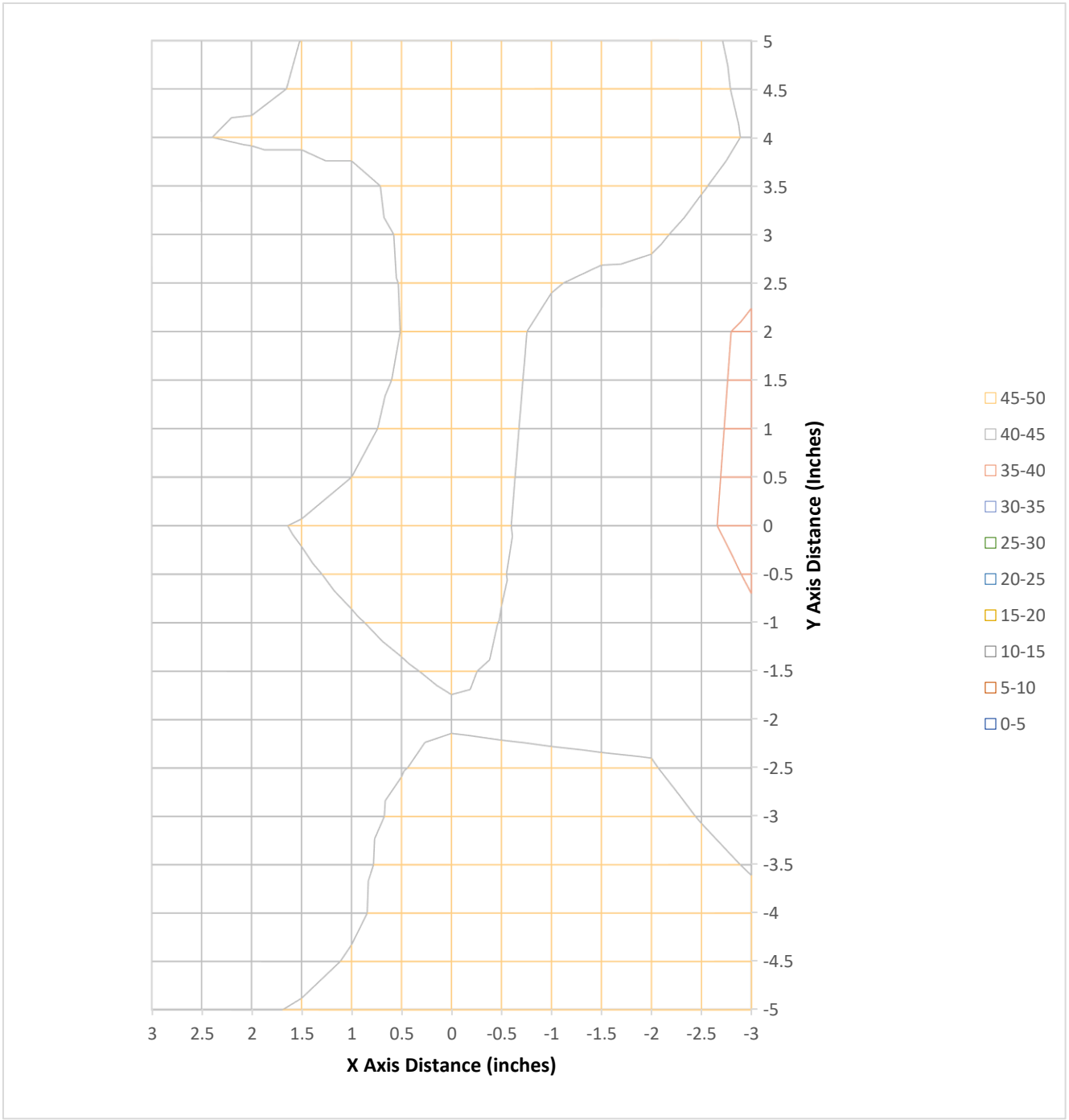
# Report of Test

Test Report Number: LLIA003059-001C-R01*

## Total Irradiance (570-1100nm) in mW/cm^2
## Test Distance = 12 inches



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# Test Report Number: LLIA003059-001C-R01*

| | |
|---|---|
| Test Equipment Configuration: | LightLab International Allentown Application Distance Measurement Grid<br>Measurements acquired using a spectral irradiance meter (350-1050nm)<br>The rectangular scan method was employed using cartesian coordinates.<br>No symmetry was applied to the results. |
| Test Procedure: | Tested in accordance with the applicable sections of:<br>LM-91-22, LM-79-24, LM-58-20 |
| Significance: | The laboratory has not participated in the selection of samples to be tested.<br>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.<br><br>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.<br><br>This report is free of erasures and corrections<br><br>This report may contain data that are not covered by the NVLAP accreditation.<br>Quantities marked with ‡ are not covered.<br><br>This report must not be used by the customer to claim product certification, approval or endorsement by NVLAP, NIST, or any agency of the Federal Government. |

Revision History: R01 - 10/22/2026 - Corrected typo on front page Xmin and Xmax values.



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