



8165 E Kaiser Blvd. Anaheim, CA 92808  
www.lightlaboratory.com

Report No: L082013502G



**Report No:** L082013502G **Issue Date:** 9/28/2020

**Report Prepared For:** Growers House  
3635E 34th ST, Tucson, AZ 85713

**Model Number:** TSL ROI-E420

**Test:** Photosynthetic Photon Flux Density (PPFD) values on 5' X 5' grid points

**Standards Used:** Appropriate part or all test guidelines were used for test performed:  
*ANSI C82.77:2002: Harmonic Emission Limits-Related Quality Requirements for Lighting Equipment*

**Description of Sample:** Client submitted the sample. Received in working and undamaged condition. No modifications were necessary.

**Special Test Condition:**

1. Grid at mounting height 12" and 24".
2. Lamp centered at center of Grid
3. PPFD measurement is an average of correspondig quadrants.

**Sample Arrival Date:** 9/24/20

**Date of Tests:** 9/24/20 - 9/28/20

**Seasoning of Sample:** No seasoning was performed.

**Equipment List**

Equipment Used	Model No	Stock No	Calibration Due Date
Chroma Programmable AC Source	61604	PS-AC02	--
Xitron Digital Power Meter	2801		
Fluke Digital Thermometer	52K/J	MT-TP05	1/10/21
LI-COR Handheld Meter	LI-250A		--
LI-COR Quantum Sensor	LI-190/R		--

### General Information

<b>Manufacturer:</b>	Growers House
<b>Model Number:</b>	TSL ROI-E420
<b>Driver Model Number:</b>	SOSEN SS-100L-54B(4 DRIVERS)

### Electrical Test Results

<b>Input Voltage (VAC/60Hz):</b>	119.96
<b>Input Current (Amp):</b>	3.2991
<b>Input Power (W):</b>	394.30
<b>Input Power Factor:</b>	0.9963
<b>Current ATHD (%):</b>	6.7%

### Test Condition

<b>Ambient Temperature (°C):</b>	25.0
<b>Stabilization Time (Hours):</b>	0:30

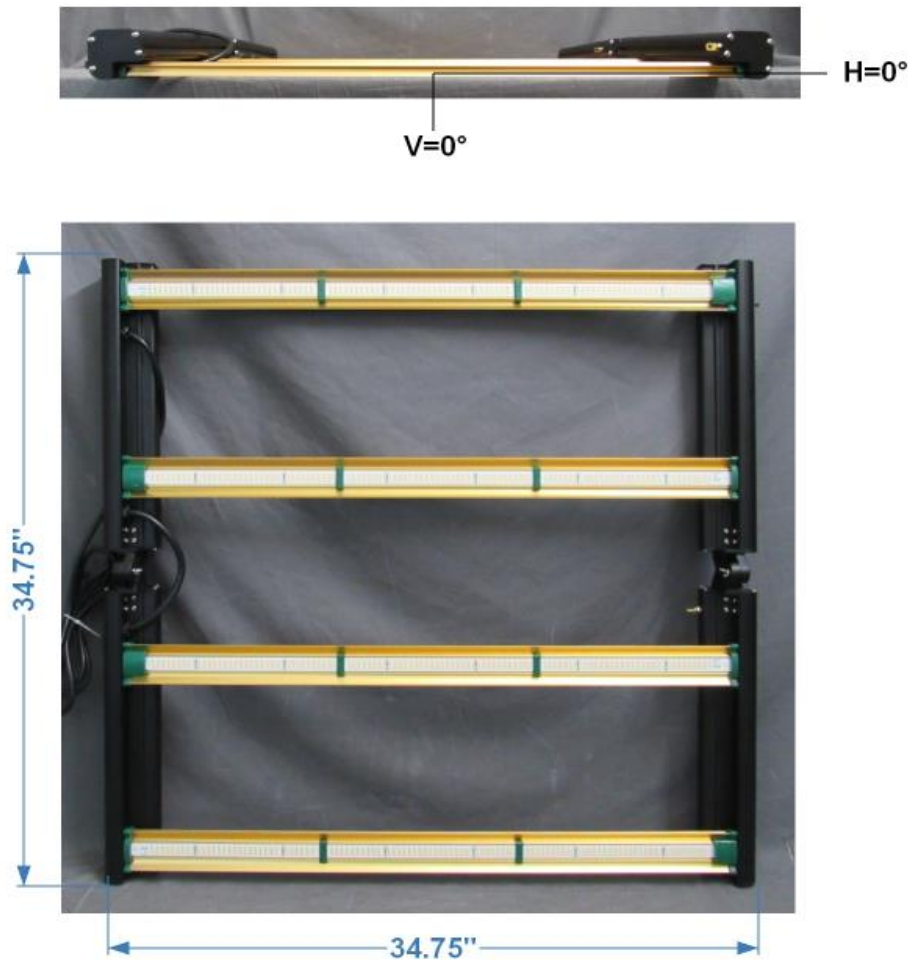
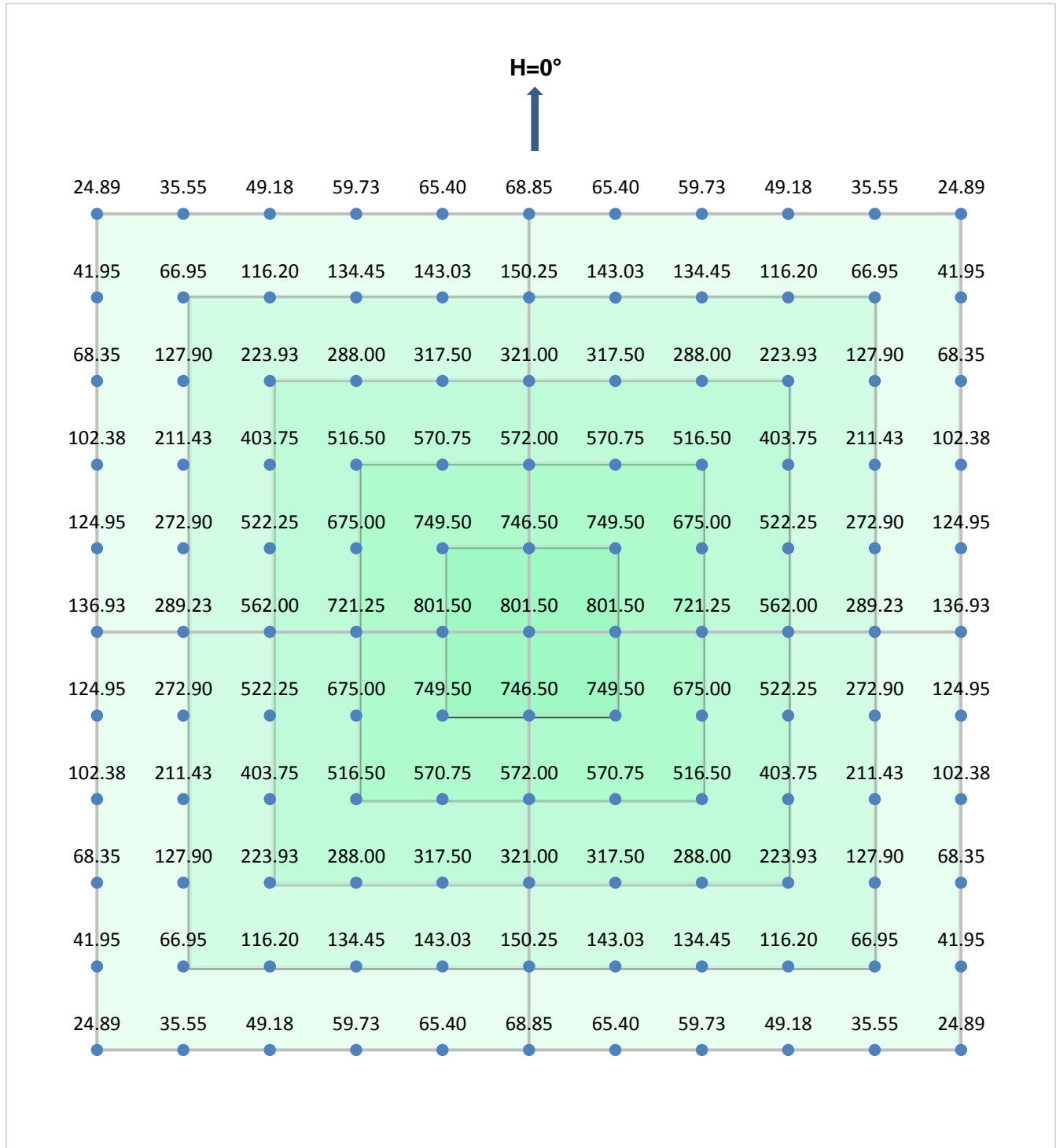
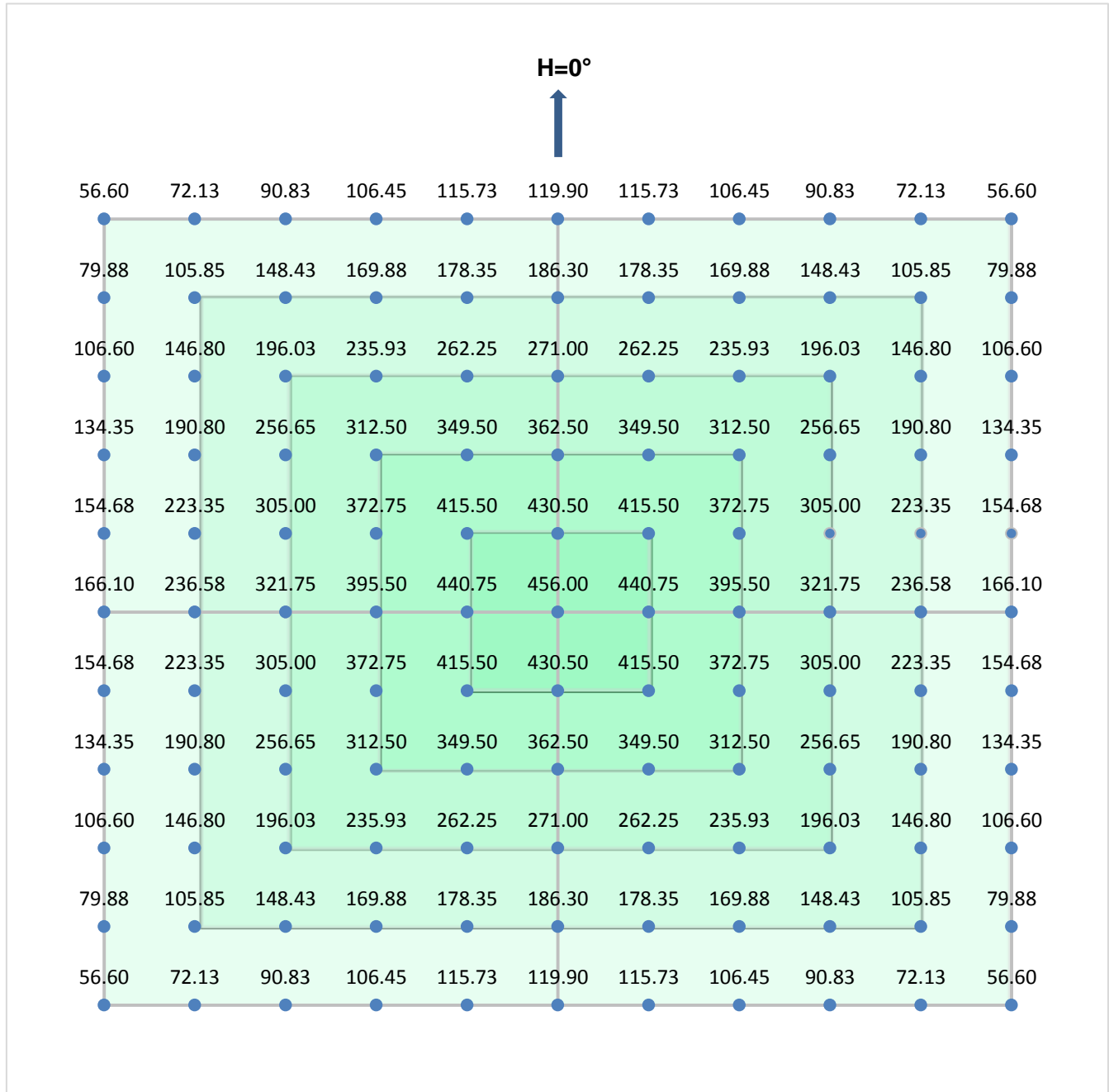


FIG. 1 LUMINAIRE

**PPFD Measurement Result at 12" Height - 6 inch square Grid**



**PPFD Measurement Result at 24" Height - 6 inch square Grid**





8165 E Kaiser Blvd. Anaheim, CA 92808  
www.lightlaboratory.com

Report No: L082013502G



### Test Methods

Ambient temperature is set to 25°C and is measured from the center of the fixture, within 1ft from the outside of the fixture. Temperature is maintained at 25°C throughout the testing process and the sample is stabilized for at least 30mins and longer as necessary for the sample to achieve stabilization.

Electrical measurements are measured using the listed equipment.

#### Disclaimers:

This report must not be used by the customer to claim product certification, approval or endorsement by NVLAP, NIST or any agency of Federal Government.

Report Prepared by : Keyur Patel

Test Report Reviewed by:

Steve Kang  
Quality Assurance