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

NVLAP TESTING
NVLAP LAB CODE 200927-0

Report No: L102214001R01 **Issue Date: 11/7/2022**

Report Prepared For: Horticulture Lighting Group
3505 Maynardville Hwy, Maynardville TN 37807

Model Number: HLG 700 Rspec FR

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 24”, 18" and 30".
2. Lamp centered at center of Grid
3. PPFD measurement is an average of correspondig quadrants.

Date of Tests: 11/2/22

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	
Manufacturer:	Horticulture Lighting Group
Model Number:	HLG 700 Rspec FR
Driver Model Number:	INVENTRONICS EUD-600S560DT

Electrical Test Results	
Input Voltage (VAC/60Hz):	220.20
Input Current (Amp):	2.8620
Input Power (W):	629.00
Input Power Factor:	0.9984
Current ATHD (%):	4.5%

Test Condition	
Ambient Temperature (°C):	25.0
Stabilization Time (Hours):	1:00

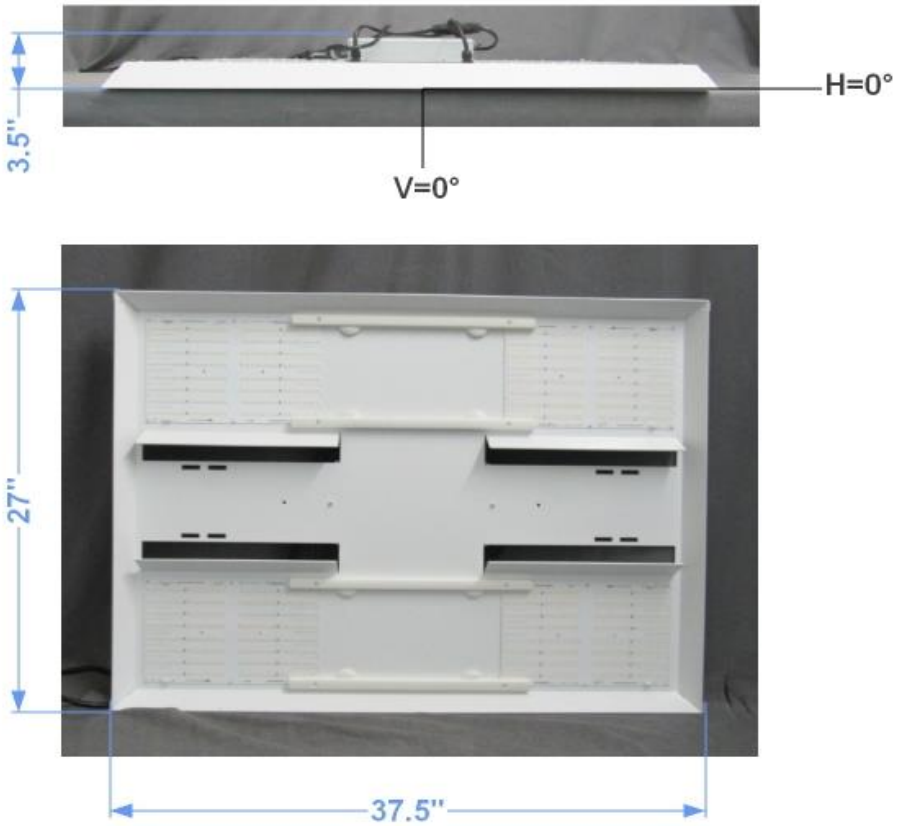
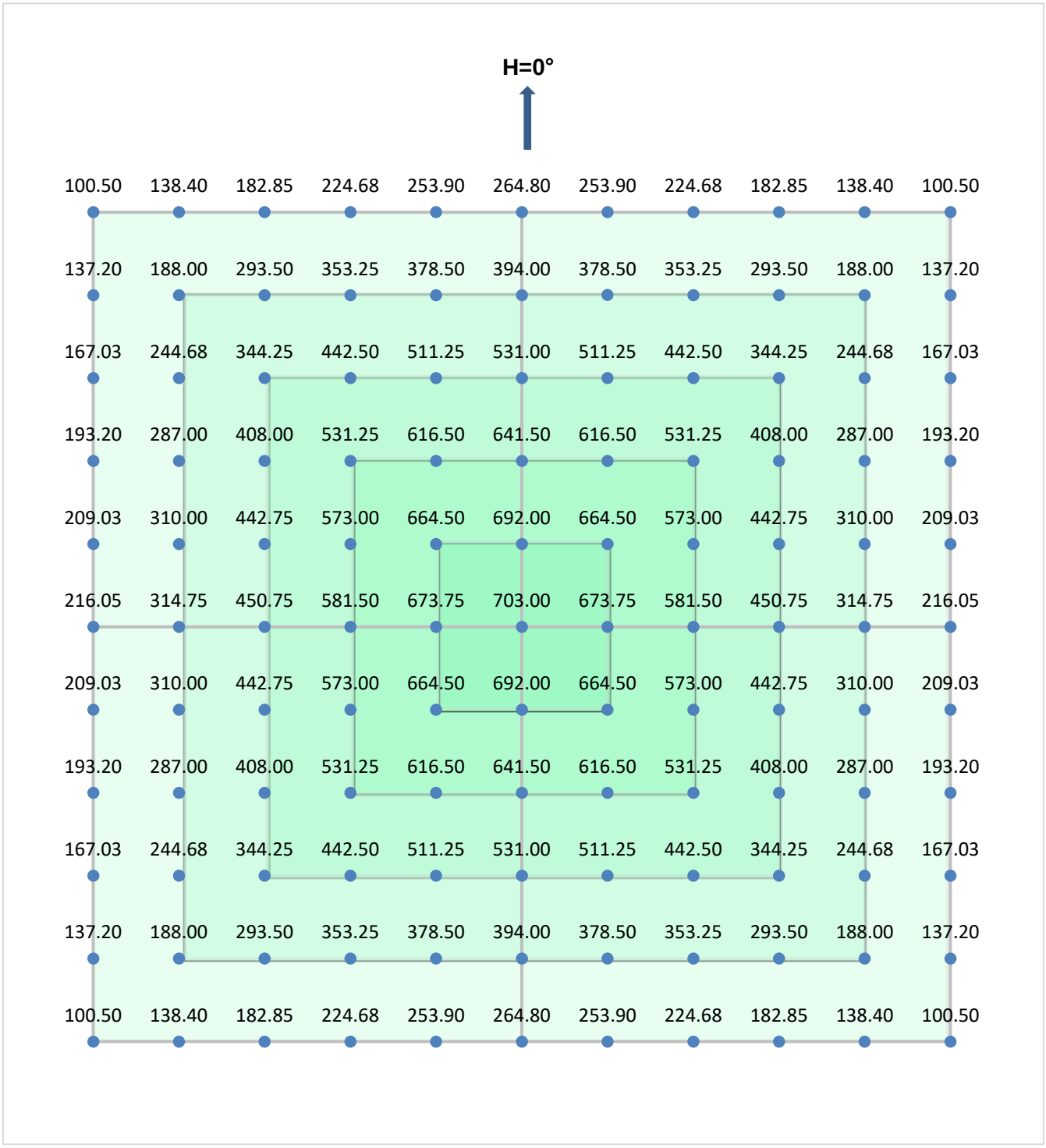
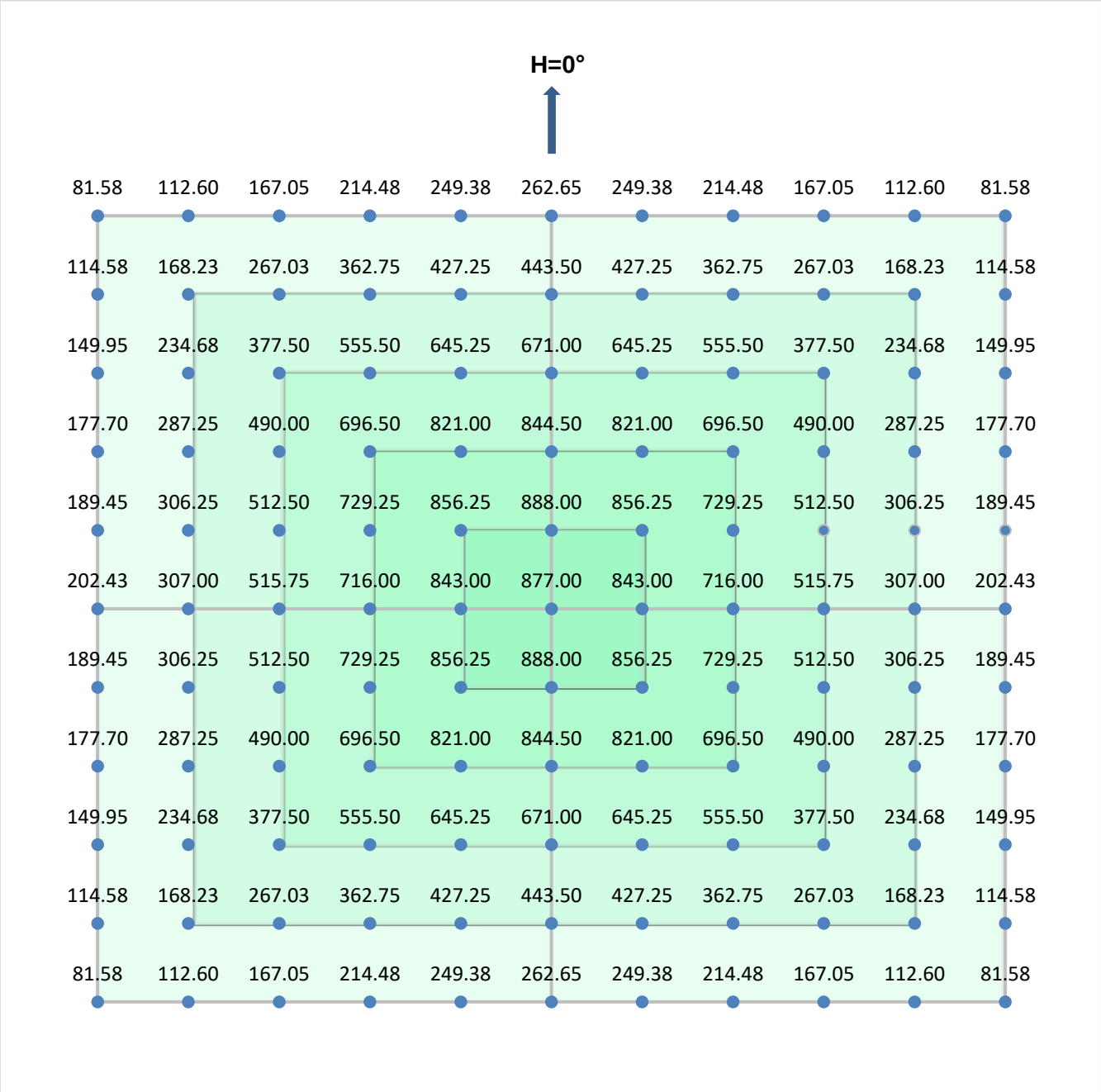


FIG. 1 LUMINAIRE

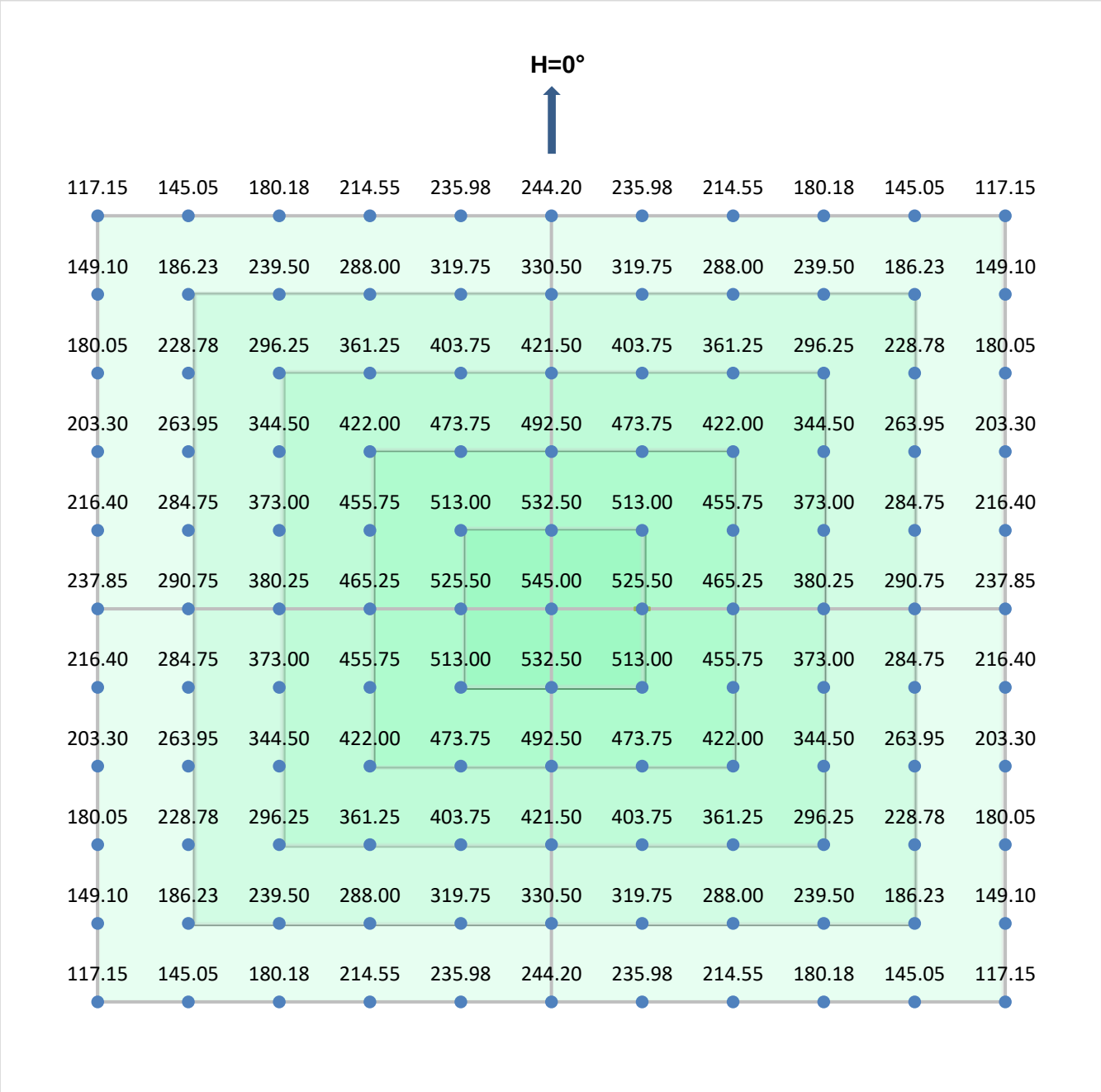
PPFD Measurement Result at 24" Height - 6 inch square Grid



PPFD Measurement Result at 18" Height - 6 inch square Grid



PPFD Measurement Result at 30" Height - 6 inch square Grid



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:

"The results related only to the samples as received and tested." and "Test results may be affected by the deviation due to test under customer's special test condition requirement." 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.

Report Prepared by : Kunjan Modi

Test Report Reviewed by:

Steve Kang
Quality Assurance