## LIGHT LABORATORY, INC.

8165 E. Kaiser Blvd., Anaheim, CA 92808

Test #: L08123402 Date: 9/5/2012

Test Prepared for: Hortilume Industries 34654 Nova Drive Clinton Township MI 48035

Objective:

PAR-Value measurement at 6, 12, 18, 24 inches from the fixture

Equipment: Gigahertz-Optik Optometer: P-9710 Gigahertz-Optik PAR Detector: PS-3701 APC AC power source model: APC-500W Yokogawa Digital Power Meter: WT210

<u>Test Samples:</u> RhinoGrow 400 LED Grow Light: Catalog Number 400A

## Test Setup and Procedure:

- 1. Test is performed in Light Laboratory goniophotometer room.
- 2. PAR Detector is located directly under the luminaire.
- 3. The luminaire is mounted on the goniophotometer with elevation control.
- 4. Test voltage is set at 120VAC.
- 5. The luminaire is stabilized for 1 hour.
- 6. PAR-Value was measured at 6, 12, 18, 24 inches from the detector.



FIG. 1 Test setup

## Test Data

DISTANCE(D: inch)	PAR-Value(µMol/s/m <sup>2</sup> )
6	780.0
12	395.7
18	224.8
24	141.1

Table 1 PAR-value data