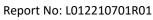




Report No:	L012210701R01	Issue Date: 1/10/2022
Report Prepared For:	GRAND MASTER LEVEL	
Model Number: Test:	TARANTULA LONG LEG Photosynthetically active radiation (PAR) & Electrical measuremen	nt
IESNA LM79: 2019 Approved Metho ANSI NEMA ANSLG C78.377: 2017	iate part or all test guidelines were used for test performed: ods for Electrical and Photometric Measurements of Solid-State Lighting Products Specification of the Chromaticity of Solid State Lighting Products mission Limits-Related Quality Requirements for Lighting Equipment	
Description of Sample:	Client submitted the sample. Received in working and undamaged modifications were necessary.	I condition. No
Special Test Condition:	Fixture is tested without 730 nm channel. Disconnected Red LED	driver.
Date of Tests:	1/7/22	
Seasoning of Sample:	No seasoning was performed in accordance with IESNA LM-79.	

Equipment List			
Equipment Used	Model No	Stock No	Calibration Due Date
Chroma Programmable AC Source	61604	PS-AC02	
Yokogawa Digital Power Meter	WT210	MT-EL06-S4	4/7/23
HP Power Supply	6032A	PS-DC05-S2	
Fluke Digital Thermometer	52K/J	MT-TP05	3/17/23
LLI Type C Goniophotometer System	RMG-C-MKII	CD-LL04-GC	
LLI 2M Sphere	2MR97	CD-SN03-S2	
LLI Spectroradiometer	SPR-3000	MT-SC01-S2	Before Use







General Information		
Manufacturer:	GRAND MASTER LEVEL	
Model Number:	TARANTULA LONG LEG	
Driver Model Number:	Inventronics EUM-680S15AMG / Fahold FD-75E-054B	

Photometric, PPF & Electrical Test Results		
Total PPF (μmol/s):	1969.48	* 380 - 780nm range
Total PPF (μmol/s):	1927.41	* 400 - 700nm range
Total Radiant Flux(W):	410.81	* 380 - 780nm range
Total Lumens (Im):	121511.71	* 380 - 780nm range
PPF Efficacy (µmol/Joule):	2.99	* 380 - 780nm range
PPF Efficacy (µmol/Joule):	2.93	* 400 - 700nm range
Luminous Efficacy (Im/W):	184.42	
Input Voltage (VAC/60Hz):	240.03	
Input Current (Amp):	2.7967	
Input Power (W):	658.90	
Input Power Factor:	0.9816	
Current ATHD (%):	7.9%	

# **Test Condition**

Ambient Temperature (°C):	25.0
Stabilization Time (Hours):	0:35
Total Operating Time (Hours):	0:55

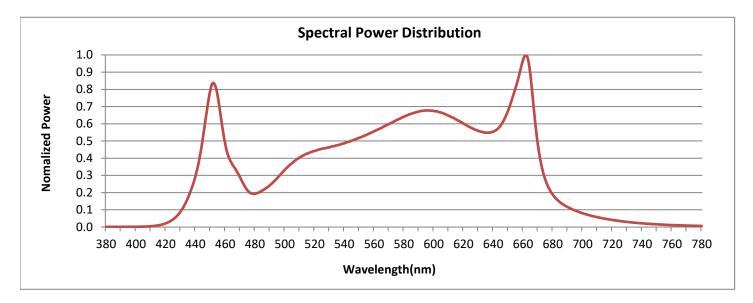


FIG. 1 LUMINAIRE



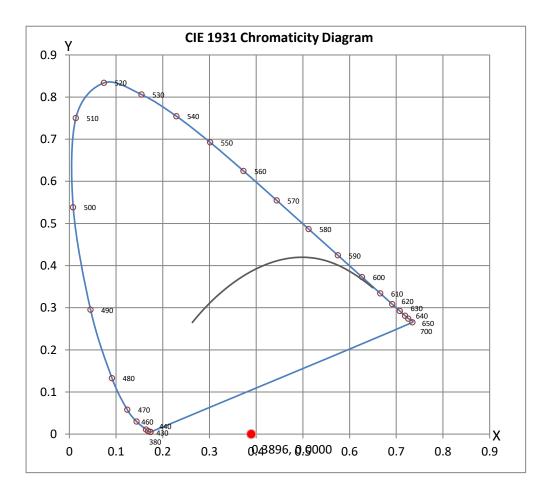


### **Colorimetry Test Results**



#### **CRI & CCT**

х	0.3896	
у	0.3694	
u'	0.2342	
v'	0.4997	
CRI	91.9	
ССТ	3696	
Duv	-0.00600	
R Values		
R1	91.83	
R2	95.17	
R3	95.69	
R4	90.88	
R5	92.04	
R6	91.54	
R7	92.36	
R8	85.44	
R9	67.22	
R10	88.56	
R11	90.99	
R12	74.20	
R13	92.95	
R14	97.43	
R15	91.38	







## **Test Methods**

#### **Spectral Measurements - Integrating Sphere**

A Sensing Spectroradiometer SPR-3000, in conjunction with Light Laboratory 2 meter integrating sphere was used to measure chromaticity coordinates, correlated color temperature(CCT) and the color rendering index(CRI) for each sample.

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. 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 : Jason Gee

Test Report Reviewed by:

Steveling

Steve Kang Quality Assurance