



NVLAP Lab Code: 200952-0

Verification Services

Project No: 4786842793-1

Report No: 4786842793-1b

Report Issued Date: 2015-05-07


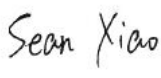
Test Report

Customer Company & Address:	
Company Name: Premium Quality Lighting, Inc.	
ADD: 2285 Ward Avenue / Simi Valley, CA 93065	
Telephone:	18003238107

Manufacturer:	Premium Quality Lighting, Inc.
Country of Origin:	CHINA
Country of Export:	N/A
Product Description:	Lamp Type: LED Lamp Total Amount Of Light Source: 120 Manufacturer Of Light Source: Everlight Electronics Co.,Ltd Model Number Of Light Source: 67-21S Series
Model Number:	Model Name: 90538
Electrical Specification:	Rated voltage: 120-277V Frequency: 50/60Hz Wattage: 18 W

Test Laboratory & Address:	
UL Verification Services (Guangzhou) Co., Ltd.	
ADD: Building A1, 1F & 2F, Nansha Science and Technology Innovation Center, No. 25, South Huanshi Avenue , Nansha District, Guangzhou 511458, China	
Telephone:	+86 20 28667188
Fax:	+86 20 83486605

Receipt of Test Samples :	2015-03-09	Test Period:	2015-03-29~2015-04-02
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Tested By	Approved By
 / Jackson Zeng	 / Sean Xiao
Test Personnel Name & Signatory	Approval Name & Signatory

The results reported herein have been performed in accordance with the laboratory's terms of accreditation. This report shall not be reproduced except in full without the written approval of the Laboratory. The results in this report apply to the test sample(s) mentioned above at the time of the testing period only and are not to be used to indicate applicability to other similar products. This report does not imply that the product(s) has met the criteria for certification.



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Statement of Results

Test Flow	Test Method	Sample ID (Lab)	Sample Serial No.	Pass/Fail/NA
1.	Integrating Sphere Test	2079478-S001	N/A	Evaluate by customer

Deviation from Test Method (if any)

N/A

Remark (if any)

1. This report shall not be used by the client to claim product endorsement by NVLAP, NIST or any agency of the US government.
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Test No.1: Integrating Sphere Test

Environmental Conditions

Temperature: 25.1°C

Test Equipment

Table with 4 columns: Equipment ID, Equipment Name, Last Calibration Date, Calibration Due Date. Rows include GVS-LE-PE001 (Integrating Sphere) and GVS-LE-FS019 (Measurement Standard Lamp).

Test Sample

2079478-S001

Test Method

The sample (bare lamp) was tested according to the IES LM-79-2008. Photometric parameters were measured using an integrating sphere, a spectroradiometer and software. The ambient temperature condition inside the sphere was maintained at 25° C ± 1° C. The sample measurements were made using a spectroradiometer connected by a fiber optic cable and detector through the detector port of the integrating sphere. The sample was operated at rated voltage and was stabilized before measurement. Chromaticity coordinates, correlated color temperature and color rendering index were calculated from the spectral radiant flux measurements taken at 1 nm intervals over the range of 380 to 780 nm.

Test Results

Table with 9 columns: Test Type, Voltage (V AC), Frequency (Hz), Current (A), Power (W), Power Factor, Orientation, Operate time (Min.), Stabilization time (Min.). Row for Input shows values: 120.05, 60, 0.1631, 18.954, 0.968, Base up, 58, 50.

Table with 5 columns: Test type, CCT (K), Luminous Flux (lm), Color Rendering Index Ra, Luminous Efficacy (lm/W). Row for Output shows values: 5090, 2300.862, 84.4, 121.392.



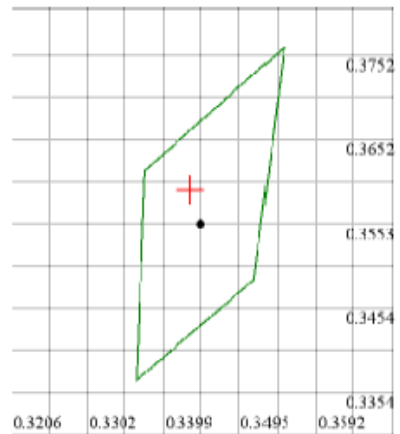
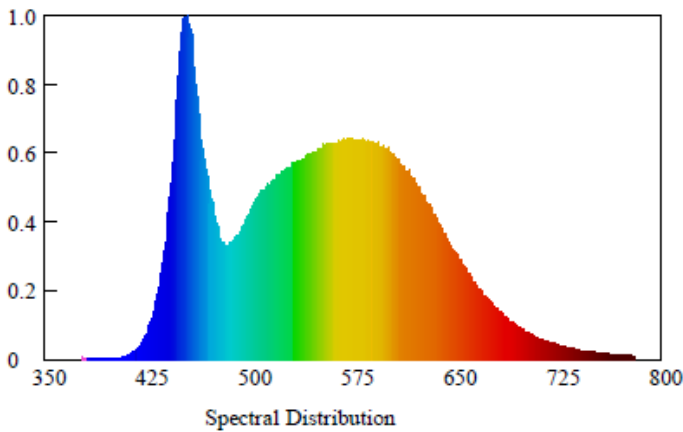
Test Report

Test Condition

Temperature: 25.1°C
 Spectrum Range: 380-780 nm

RH: ----%
 Scan Step: 1 nm

Spectroradiometric Parameters



Nominal CCT:LED_5000K
 $x_0=0.3434$ $y_0=0.3593$

Chromaticity Coordinates: $x=0.3434$ $y=0.3593$ $u'=0.2073$ $v'=0.4881$

Correlated Color Temperature: 5090 K

Dominant Wavelength: 566.0 nm(E)

Luminous Flux: 2300.862 lm

Purity: 0.1080

Chromaticity Difference: +0.00451Duv

Peak Wavelength: 454.9 nm

Color Ratio: $K_r=33.3\%$ $K_g=54.7\%$ $K_b=12.0\%$

Bandwidth: 26.1nm

Radiant Flux: 6.736 W

Rendering Index: $R_a=84.4$

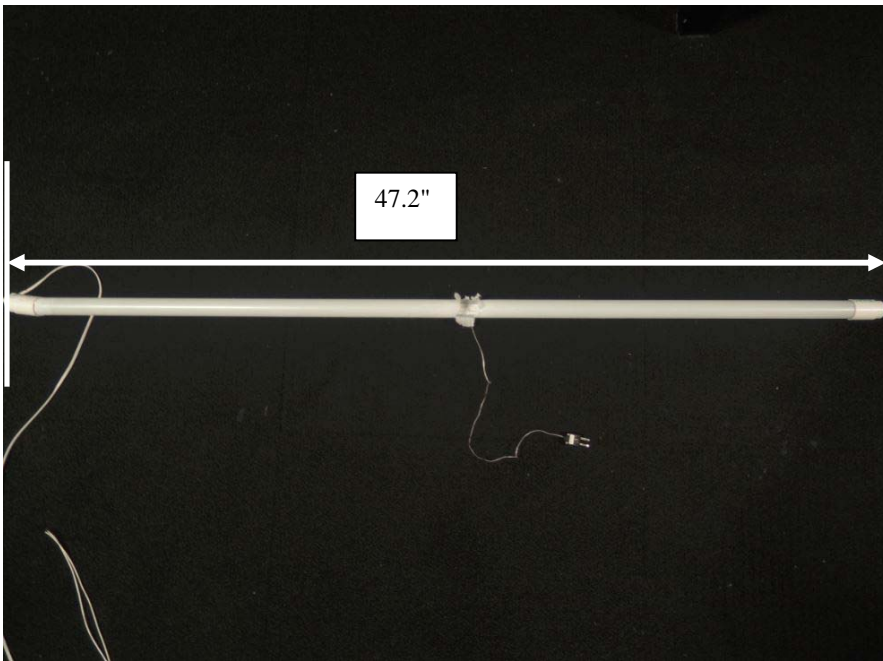
R1=83 R2=91 R3=95 R4=81 R5=82 R6=87 R7=87 R8=68

R9=14 R10=79 R11=80 R12=62 R13=86 R14=98 R15=77



Test Report

Photos of sample





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*******END OF TEST REPORT*******