

# Test Report

Sample Name : 43W\_5500LM\_5000K

Model Name : 90816


Applicant : P.Q.L., Inc.

Test Category: Commission Test

# Statement

- i. Report without "special seal for testing report" or "official seal of testing lab" is invalid.
- ii. Report modified without signature is invalid.
- iii. Report without signature of inspector, reviewer, approver is invalid.
- iv. Once objection to testing report, it should be within 15 days from the date of receipt of the report. Once beyond the time limit, there will be not accepted.
- v. Laboratory only responsible for test items of of the delivered samples
- vi. Without permission of the lab, this report shall not be arbitrarily change or part of the reference. In any form copy, copy of duplicate agreed, it should be recognized by my lab with special seal for testing. It is invalid without the seal of lab.

# Test Report

Sample Name	43W_5500LM_5000K	Model	90816
		Logo	
Client	P.Q.L., Inc.	Testing category	Commission Test
Manufacturer	P.Q.L., Inc.	Testing site	Laboratory
Deliverer	Chen Xumeng	Sample quantity	1 pcs
Application date	2016-11-24	Testing date	2016-11-24
Testing Standard	<input checked="" type="checkbox"/> IES LM-79-08 Electrical and Photometric Measurements of Solid-State Lighting Products <input checked="" type="checkbox"/> ANSI C78.377-2011 specifications for the chromaticity of solid state lighting products		
Testing Items	<input checked="" type="checkbox"/> Photoelectric color performance parameters ( <input checked="" type="checkbox"/> Flux ; <input checked="" type="checkbox"/> Efficiency ; <input checked="" type="checkbox"/> Voltage ; <input checked="" type="checkbox"/> Current ; <input checked="" type="checkbox"/> Power ; <input checked="" type="checkbox"/> Power factor ; <input checked="" type="checkbox"/> Color renderings ; <input checked="" type="checkbox"/> Ra ; <input type="checkbox"/> Others _____ ) <input type="checkbox"/> Lighting distribution ( <input type="checkbox"/> Center lighting intensity ; <input type="checkbox"/> light intensity distribution ; <input type="checkbox"/> IES file (attachment) ; <input type="checkbox"/> Others _____ ) <input type="checkbox"/> Mantianance ( <input type="checkbox"/> Color Mantianance ; <input type="checkbox"/> Lumen Mantianance ) <input type="checkbox"/> On/off test ; <input type="checkbox"/> Others _____		
Testing Results	See test summary		
Note	—		
Tested by :	Reviewed by:	Approved by:	
Date :	Date:	Date:	

## Sample description

### Products general description

- (1) Rated Voltage (V) : 120
- (2) Rated Current (A) : —
- (3) Rated Power (W) : 43
- (4) Rated Frequency (Hz) : 60
- (5) Lamp Cap: G13; G5; 2G11; Fa8; R17d; Others:  
G24q
- (6) Bulb Type: Straight type; T8U type (Big U; Small U) ;  
Single ended (PL; PLL) other
- (7) Lamp Length: 2ft; 3ft; 4ft; 5 ft; 6 ft; 8 ft; other
- (8) Lighting Source: LED; other
- (9) Supply Type: BP; DR (Ballast\_\_\_\_\_); DC power supply;  
External power supply; other

## Testing Equipment

No.	Equipment	Type/model	Serial	Due to
1	Spectroradiometer	HAAS-2000	LB1O-004	
2	DC Power Supply	WY12010	LB1E-005	
3	Integrating Sphere	0.5m	LB10-007	
4	Standard Lamp	D062	LB1O-030	
5	Spectroradiometer	PMS-80	LB1O-031	
6	DC Current Source	WY305	LB1E-043	
7	Power Meter	WT210	LB1E-042	
8	AC Source	TPS500B	LB1E-044	
9	Integrating Sphere	2.0m	LB1O-008	
10	Spectroradiometer	HAAS-2000	LB1O-003	
11	DC Power Supply	WY605	LB1E-003	
12	Digital Power Meter	PF2010A	LB1E-007	
13	AC Power supply	CF-500T	LB1E-010	
14	Standard Lamp	D204	LB1O-010	
15	Integrating Sphere	2.0m	LB1O-006	
16	<input checked="" type="checkbox"/> Spectroradiometer	HAAS-2000	LB1O-021	2017-03-18
17	<input checked="" type="checkbox"/> DC Power Supply	WY12010	LB1E-022	2017-07-14
18	<input checked="" type="checkbox"/> Digital Power Meter	PF2010	LB1E-023	2017-05-12
19	<input checked="" type="checkbox"/> AC Power supply	DPS1005	LB1E-021	2017-07-14
10	<input checked="" type="checkbox"/> Standard Lamp	D204	LB1O-012	2019-03-15
21	<input checked="" type="checkbox"/> Integrating Sphere	3.0m	LB1O-029	—
22	Goniophotometer	GO-R5000	LB1O-001	
23	Spectroradiometer	HAAS-2000	LB1O-005	
24	DC Power Supply	WY12010	LB1E-004	
25	Digital Power Meter	PF2010	LB1E0-009	
26	AC Power supply	DPS1060	LB1E-014	
27	Standard Lamp	D908S	LB1O-011	
28	High frequency reference source	YF2402	LB1E-024	
29	Dial caliper	0-150mm	LB3L-020	
30	Balance	ACS-D11	LB3F-003	

## Test Summary

No.	Testing items	Testing standard	Testing results	Verdict
1	Photoelectric color performance parameters	IES LM-79-08 ANSI C78.377-2011	See following pages	P
2	Lighting distribution	—	—	—
3	Maintanance	—	—	—
4	On/off test	—	—	—

## 1. Photoelectric color performance parameters

### 1.1 Testing conditons

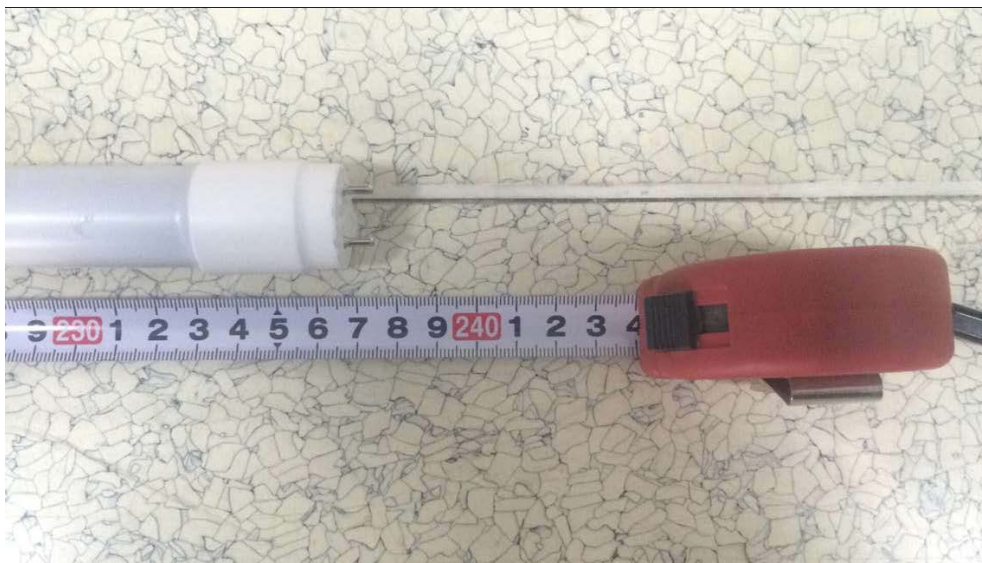
Test standard	Incoporated ballast	Tempreature & Humidity	Self-absorption coefficient	Test input
IES-LM-79-08 ANSI C78.377-2011	—	$25 \pm 1^\circ\text{C}$ ; $\leq 65\% \text{R.H}$	1	120V/60Hz

### 1.2 Testing data

Spec. Limit	I (A)	U (V)	*P (W)	PF	Flux (lm)	*Eff (lm/W)	x	y	Tc (K)	Ra	R9	Duv	THD
Sample No	-	-	-	-	-	-	x1=0.35500;x2=0.33754 x3=0.33660;x4=0.35137	y1=0.37519;y2=0.36185 y3=0.33718;y4=0.34797	5029±283	-	-	0.0019±0.006	-
161118007SX01	0.3735	120.1	43.96	0.9805	5657.4	128.68	0.3405	0.3484	5169	85	16	2.41e-03	-
AVERAGE	0.3735	120.1	43.96	0.9805	5657.4	128.68	0.3405	0.3484	5169	85	16	2.41e-03	-
Verdict	-	-	-	-	-	-	P	P	P	-	-	P	-
Note	—												

Note : “N” —Not applicable; “P” —Pass; “F” —Fail; “—” —No need to verdict

**Photos**



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