

Report Number:

20211109024

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Test Request By:	RDC Share Laboratory Signify (China) Investment Co., Ltd. joey.ye Building 9, Lane 888, Tianlin Road, Shanghai		
Tested Product Name:	LED Luminaire	Date of Received:	2021-11-09
Type Designation:	BVP431 100W Model:824110137941	Serial No:	ST2257
Test Specification:	Test method according to IES LM-79-2019 (section 5) and Test Request numbered 20211109024.A1		
Test Place:	Signify (China) Investment Co., Ltd. LTC (Lighting Testing Center) No. 2 Building, No. 9, Lane 888, Tian Lin Road, Shanghai, P.R. China, 200233		
Test Result:	The test report only provides test data		
Test By:	Xiaoqing Yang 	Review By: Jian Wang 	
Date:	2021-11-18	Date:	2021-11-18
Others: This test is to verify the product electrical parameters according to IES LM-79-2019 (section 5). The test is performed on condition AC230V/50Hz base on the test request.			

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Summary of Test Result

Test Item	Result (Average)
Power (W)	98.53
PF	0.9825

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TEST SUMMARIES

5.1.1 TEST RESULT OF ELECTRICAL PERFORMANCE (NUMBER 1 IN TEST PLAN)

Test Result:

Test Data

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1. Purpose

The test is for verify the product electrical performance base on section 5.0 of IES LM-79-2019 related standard requirement.

2. Test Equipment

Signify (China) Investment Co., Ltd.

LTC (Lighting Testing Center)

No. 2 Building, No. 9, Lane 888, Tian Lin Road, Shanghai, P.R. China, 200233

Equipment	Type	Manufacturer	S/N	Calibrated until
AC Power Source	6812B	Agilent	MY41001761	2022-05-31
Digital Power Meter	WT1600	YOKOGAWA	91G419142	2022-07-18
Photocurrent meter	I1000	LMT	10B0671	2022-11-01
TEC Source Meter	2510	Keithley	1097298	2022-02-21

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3. General Product Information

3.1. Product Information

Brand Name	Model Number
BVP431 100W	824110137941

3.2. Rated Electrical Parameter

Type Designation	Input Voltage
BVP431 100W 824110137941	230VAC/50Hz

4. Test Set-up and Operation Modes

4.1. Electrical Measurements

The sample is placed on the fixture in base up position and powered by a regulated and conditioned 230 Volt with a tolerance interval of $\pm 0.5\%$, 50 Hertz alternating current supply. The sample is tested at ambient temperature 25°C with a tolerance interval of $\pm 1.2^{\circ}\text{C}$ and humidity maintained between 10% and 65%. The electrical power measurements data contained in this report are the readings upon which stabilization is verified. The stabilization time shown on the results pages of this report denote the time of measurement since this is the minimum time that the sample is assumed to have taken to reach stabilization according to section 6.0 of IES LM-79-2019.

5. Test Result

5.1. Test Result for Electrical and Optical Performance

Test according to test plan attached numbered 20211109024.A1.

5.1.1 Test Result of Electrical Performance (Number 1 in Test Plan)

Test Result:

Test Data

Table 1 Electrical Test on BVP431 100W, Model: 824110137941

Test Date: 2021-11-15

Stabilization time: 50min

Room temperature: 25.0℃

Room humidity: 39.7%

Lamp NO.	U	Frequency	I	P	PF
	(V)	(Hz)	(A)	(W)	
ST2257-01	230.02	50	0.4351	98.35	0.9826
ST2257-02	230.02	50	0.4378	98.93	0.9824
ST2257-03	230.02	50	0.4347	98.21	0.9823
ST2257-04	230.02	50	0.4349	98.31	0.9827
ST2257-05	230.02	50	0.4365	98.62	0.9823
ST2257-06	230.01	50	0.4381	99.03	0.9827
ST2257-07	230.01	50	0.4372	98.84	0.9829
ST2257-08	230.02	50	0.4356	98.47	0.9827
ST2257-09	230.01	50	0.4345	98.17	0.9823
ST2257-10	230.02	50	0.4353	98.35	0.9823
Average	230.02	50	0.4360	98.53	0.9825

6. Test Photo

Photograph 1, Test Sample



Photograph 2, Electronic LED Driver



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7. List of Tables

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The test results presented in this report relate only to the item tested.

The test results presented in this report relate only to the samples tested.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

Test Plan Attachment

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No.	Group	Test Item	According to	Type Designation	Tested By	QTY	Test Specification	Acceptable Value/Range
1	A	Electrical measurement	LV237-108-012-B-G007/IESNA LM79	824110137941 BVP431 100W	LTC	10	Equipment: GM01 Test on 230VAC@50Hz preheating and stabilization method according to LM79 sec6.0	REF

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