

Report Number:

20211109022

Page 1 of 11

<b>Test Request By:</b>	RDC Share Laboratory Signify (China) Investment Co., Ltd. joey.ye Building 9, Lane 888, Tianlin Road, Shanghai		
<b>Tested Product Name:</b>	LED Luminaire	<b>Date of Received:</b>	2021-11-09
<b>Type Designation:</b>	BVP431 70W Model:824110137931	<b>Serial No:</b>	ST2256
<b>Test Specification:</b>	Test method according to IES LM-79-2019 (section 5) and Test Request numbered 20211109022.A1		
<b>Test Place:</b>	Signify (China) Investment Co., Ltd. LTC (Lighting Testing Center) No. 2 Building, No. 9, Lane 888, Tian Lin Road, Shanghai, P.R. China, 200233		
<b>Test Result:</b>	The test report only provides test data		
<b>Test By:</b>	Xiaojing Yang 	<b>Review By:</b>	Jian Wang 
<b>Date:</b>	2021-11-18	<b>Date:</b>	2021-11-18
<p><b>Others:</b> 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.</p>			

Report Number:

20211109022

Page 2 of 11

## Summary of Test Result

Test Item	Result (Average)
Power (W)	69.62
PF	0.9689

**Proprietary:**

This report may not be duplicated or used in part without prior written consent from Signify (China) Investment Co., Ltd.

**Note:** This report is valid only with a valid signature.

## Contents

1. PURPOSE .....	5
2. TEST EQUIPMENT .....	5
3. GENERAL PRODUCT INFORMATION .....	6
3.1. PRODUCT INFORMATION .....	6
3.2. RATED ELECTRICAL PARAMETER .....	6
4. TEST SET-UP AND OPERATION MODES .....	7
4.1. ELECTRICAL MEASUREMENTS .....	7
5. TEST RESULT .....	8
5.1. TEST RESULT FOR ELECTRICAL AND OPTICAL PERFORMANCE .....	8
5.1.1 Test Result of Electrical Performance (Number 1 in Test Plan) .....	8
6. TEST PHOTO .....	9
7. LIST OF TABLES .....	10
8. LIST OF PHOTOGRAPHS .....	10

## TEST SUMMARIES

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

*Test Result:*

*Test Data*

Signify LTC Asia

Report Number:

20211109022

Page 5 of 11

## 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

## 3. General Product Information

### 3.1. Product Information

Brand Name	Model Number
BVP431 70W	824110137931

### 3.2. Rated Electrical Parameter

Type Designation	Input Voltage
BVP431 70W 824110137931	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  $25^{\circ}\text{C}$  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 20211109022.A1.

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

Test Result:

Test Data

**Table 1** Electrical Test on BVP431 70W, Model: 824110137931

Test Date: 2021-11-11

Stabilization time: 50min

Room temperature: 24.9℃

Room humidity: 42.9%

Lamp NO.	U	Frequency	I	P	PF
	(V)	(Hz)	(A)	(W)	
ST2256-01	230.02	50	0.3111	69.30	0.9685
ST2256-02	230.02	50	0.3116	69.48	0.9695
ST2256-03	230.02	50	0.3131	69.80	0.9691
ST2256-04	230.01	50	0.3144	70.08	0.9692
ST2256-05	230.02	50	0.3121	69.54	0.9687
ST2256-06	230.02	50	0.3108	69.20	0.9680
ST2256-07	230.03	50	0.3112	69.34	0.9686
ST2256-08	230.02	50	0.3126	69.63	0.9683
ST2256-09	230.02	50	0.3131	69.83	0.9695
ST2256-10	230.02	50	0.3142	70.03	0.9691
Average	230.02	50	0.3124	69.62	0.9689



Report Number:

20211109022

Page 9 of 11

## 6. Test Photo

**Photograph 1, Test Sample**



**Photograph 2, Electronic LED Driver**



## 7. List of Tables

<b>Table 1</b> Electrical Test on BVP431 70W, Model: 824110137931 .....	8
---	---

## 8. List of Photographs

<b>Photograph 1</b> , Test Sample .....	9
<b>Photograph 2</b> , Electronic LED Driver .....	9

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 Number:

20211109022.A1

Page 11 of 11

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	824110137931 BVP431 70W	LTC	10	Equipment: GM01 Test on 230VAC@50Hz preheating and stabilization method according to LM79 sec6.0	REF

-----End of Document-----