



# Test Report



Report Number:

20210907021

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<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>	2021-09-07
<b>Type Designation:</b>	BRP471 LED102/NW 78W DWV P7T SRB ANZ Model:824110139551	<b>Serial No:</b>	ST2197
<b>Test Specification:</b>	Test method according to IES LM-79-2019 (section 5) and Test Request numbered 20210907021.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>	2021-10-21	<b>Date:</b>	2021-10-21
<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.			

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## Summary of Test Result

Test Item	Result (Average)
Power (W)	78.43
PF	0.9513

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## TEST SUMMARIES

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

*Test Result:*

*Test Data*

Signify LTC Asia

## 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	2021-11-02
TEC Source Meter	2510	Keithley	1097298	2022-02-21



## 3. General Product Information

### 3.1. Product Information

Brand Name	Model Number
BRP471 LED102/NW 78W DWV P7T SRB ANZ	824110139551

### 3.2. Rated Electrical Parameter

Type Designation	Input Voltage
BRP471 LED102/NW 78W DWV P7T SRB ANZ 824110139551	230VAC/50Hz

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## 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 20210907021.A1.

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

Test Result:

Test Data

**Table 1** Electrical Test on BRP471 LED102/NW 78W DWV P7T SRB ANZ, Model: 824110139551

Test Date: 2021-09-22

Stabilization time: 50min

Room temperature: 25.3°C

Room humidity: 43.5%

Lamp NO.	U	Frequency	I	P	PF
	(V)	(Hz)	(A)	(W)	
ST2197-01	230.01	50	0.3571	78.09	0.9508
ST2197-02	230.01	50	0.3576	78.22	0.9511
ST2197-03	230.01	50	0.3580	78.28	0.9507
ST2197-04	230.01	50	0.3568	78.11	0.9517
ST2197-05	230.01	50	0.3600	78.92	0.9530
ST2197-06	230.01	50	0.3607	78.98	0.9521
ST2197-07	230.01	50	0.3606	78.83	0.9504
ST2197-08	229.99	50	0.3588	78.54	0.9516
ST2197-09	229.98	50	0.3570	77.93	0.9491
ST2197-10	230.00	50	0.3580	78.42	0.9524
Average	230.00	50	0.3585	78.43	0.9513

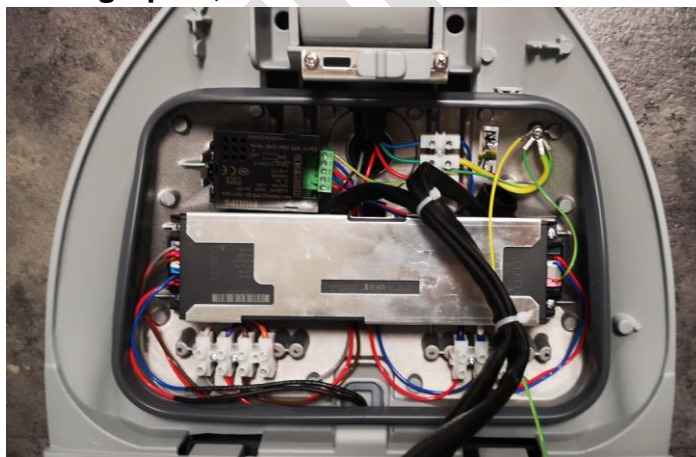


## 6. Test Photo

Photograph 1, Test Sample



Photograph 2, Electronic LED Driver



## 7. List of Tables

**Table 1** Electrical Test on BRP471 LED102/NW 78W DWV P7T SRB ANZ, Model: 824110139551 ..... 8

## 8. List of Photographs

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**Photograph 2**, 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.

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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	824110139551 BRP471 LED102/NW 78W DWV P7T SRB ANZ	LTC	10	Equipment: GM01 Test on 230VAC@50Hz preheating and stabilization method according to LM79 sec6.0	REF

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