



Test Report



Report Number:

20210907016

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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: | 2021-09-07 |
| Type Designation: | BRP471 LED64/NW 50W DWV P7T SRB ANZ Model:824110139541 | Serial No: | ST2194 |
| Test Specification: | Test method according to IES LM-79-2019 (section 5) and Test Request numbered 20210907016.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: | 2021-10-21 | Date: | 2021-10-21 |
| 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) | 50.03 |
| PF | 0.9555 |

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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 LED64/NW 50W DWV P7T SRB ANZ | 824110139541 |

3.2. Rated Electrical Parameter

| Type Designation | Input Voltage |
|---|---------------|
| BRP471 LED64/NW 50W DWV P7T SRB ANZ 824110139541 | 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 20210907016.A1.

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

Test Result:

Test Data

Table 1 Electrical Test on BRP471 LED64/NW 50W DWV P7T SRB ANZ, Model: 824110139541

Test Date: 2021-09-09

Stabilization time: 50min

Room temperature: 25.3°C

Room humidity: 44.7%

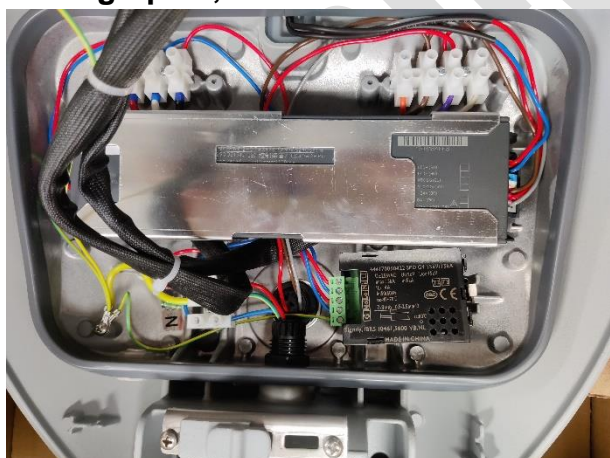
| Lamp NO. | U | Frequency | I | P | PF |
|-----------|--------|-----------|--------|-------|--------|
| | (V) | (Hz) | (A) | (W) | |
| ST2194-01 | 229.99 | 50 | 0.2276 | 49.88 | 0.9528 |
| ST2194-02 | 229.99 | 50 | 0.2265 | 49.76 | 0.9553 |
| ST2194-03 | 229.99 | 50 | 0.2282 | 50.16 | 0.9556 |
| ST2194-04 | 229.99 | 50 | 0.2287 | 50.23 | 0.9551 |
| ST2194-05 | 229.99 | 50 | 0.2281 | 50.02 | 0.9534 |
| ST2194-06 | 230 | 50 | 0.2269 | 49.97 | 0.9576 |
| ST2194-07 | 230 | 50 | 0.2268 | 49.96 | 0.9578 |
| ST2194-08 | 230.01 | 50 | 0.2285 | 50.23 | 0.9556 |
| ST2194-09 | 230.01 | 50 | 0.2271 | 49.9 | 0.9552 |
| ST2194-10 | 230.01 | 50 | 0.2278 | 50.14 | 0.9569 |
| Average | 230.00 | 50 | 0.2276 | 50.03 | 0.9555 |

6. Test Photo

Photograph 1, Test Sample



Photograph 2, Electronic LED Driver



7. List of Tables

Table 1 Electrical Test on BRP471 LED64/NW 50W DWV P7T SRB ANZ, Model: 824110139541 8

8. List of Photographs

Photograph 1, Test Sample 9

Photograph 2, Electronic LED Driver used for test 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 | 824110139541 BRP471 LED64/NW 50W 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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