



Test Report: 211105LCP

Testing of Tango G3 Power for AEMO's NEM Load Table for BVP384 LED472/NW 360W

Type of product: LED Floodlight

Brand Philips

Model Number: BVP384 LED472/NW 360W

Prepared for: Signify

Description: 360W LED Floodlight. IP66, IK08, Ta 35°C, Class I luminaire provided with cord. Features die cast aluminium housing and polycarbonate optical cover and lens. LED modules driven from 2x Philips LED driver (model no. XiFP 150W 0.3-1.0A SNLDAE 230V S240 sXt set at 662mA).

Test objective

Determination of the luminaire supply operating parameters Voltage, Current, Power and Power Factor when tested at nominal test voltages of 250V. By the method of LEDLab Electrical Parameter Determination and AEMO Unmetered_Load_Guideline_v1_0.

Test configuration

The ten luminaires were operated at 25°C ambient temperature in their normal operational orientation at 250VAC, 50Hz, until the monitored luminaire stabilised as defined in IES LM79. Twenty readings were taken ten seconds apart and the average found. The average value is multiplied by the Calibration Correction given in the latest NATA endorsed calibration report then has Voltmeter losses subtracted based on Watt-meter input impedance and test voltage. The other nine luminaires having operated for the same or more time are switched one by one to Wattmeter for their twenty readings.

Client

Contact Jacek Lipiec, Signify, 65 Epping Rd, North Ryde, NSW 2113.

Conclusions

The Average Load (W) is 365.84W at 0.992 Power Factor.

Tested by:
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04/11/2021

Authorised Signatory

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Date: 04/11/2021



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Results

Time till stabilisation: 4h

Electrical Measurements

Sample 1	Supply Voltage (Vrms)	Input Current (Arms)	Input Power (W)	Power Factor
Average	250.180	1.475	366.057	0.992
Min	249.830	1.473	366.020	0.992
Max	250.630	1.477	366.090	0.992
Calibration correction (see Newton 4th calibration report 2020002794)	1.00025	1.00014	1.00010	1.0000
Instrument impedance correction (N4)		0.00024	0.0576	
Final value	250.24	1.475	366.09	0.992

Sample 2	Supply Voltage (Vrms)	Input Current (Arms)	Input Power (W)	Power Factor
Average	250.088	1.477	366.253	0.992
Min	249.870	1.475	366.200	0.992
Max	250.410	1.478	366.330	0.992
Calibration correction (see Newton 4th calibration report 2020002794)	1.00025	1.00014	1.00010	1.0000
Instrument impedance correction (N4)		0.00024	0.0576	
Final value	250.15	1.477	366.29	0.992

Sample 3	Supply Voltage (Vrms)	Input Current (Arms)	Input Power (W)	Power Factor
Average	250.278	1.475	365.995	0.992
Min	249.940	1.472	365.970	0.992
Max	250.740	1.477	366.020	0.992
Calibration correction (see Newton 4th calibration report 2020002794)	1.00025	1.00014	1.00010	1.0000
Instrument impedance correction (N4)		0.00024	0.0576	
Final value	250.34	1.475	366.03	0.992

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Sample 4	Supply Voltage (Vrms)	Input Current (Arms)	Input Power (W)	Power Factor
Average	250.166	1.475	365.951	0.992
Min	249.690	1.472	365.910	0.992
Max	250.700	1.478	366.010	0.992
Calibration correction (see Newton 4th calibration report 2020002794)	1.00025	1.00014	1.00010	1.0000
Instrument impedance correction (N4)		0.00024	0.0576	
Final value	250.23	1.475	365.99	0.992

Sample 5	Supply Voltage (Vrms)	Input Current (Arms)	Input Power (W)	Power Factor
Average	250.500	1.477	366.918	0.992
Min	250.020	1.475	366.860	0.992
Max	250.780	1.480	366.950	0.992
Calibration correction (see Newton 4th calibration report 2020002794)	1.00025	1.00014	1.00010	1.0000
Instrument impedance correction (N4)		0.00024	0.0576	
Final value	250.56	1.477	366.95	0.992

Sample 6	Supply Voltage (Vrms)	Input Current (Arms)	Input Power (W)	Power Factor
Average	250.219	1.475	366.181	0.992
Min	249.880	1.474	366.140	0.992
Max	250.500	1.477	366.210	0.992
Calibration correction (see Newton 4th calibration report 2020002794)	1.00025	1.00014	1.00010	1.0000
Instrument impedance correction (N4)		0.00024	0.0576	
Final value	250.28	1.476	366.22	0.992



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Sample 7	Supply Voltage (Vrms)	Input Current (Arms)	Input Power (W)	Power Factor
Average	250.211	1.465	363.415	0.992
Min	249.900	1.464	363.410	0.992
Max	250.430	1.467	363.420	0.992
Calibration correction (see Newton 4th calibration report 2020002794)	1.00025	1.00014	1.00010	1.0000
Instrument impedance correction (N4)		0.00024	0.0576	
Final value	250.27	1.465	363.45	0.992

Sample 8	Supply Voltage (Vrms)	Input Current (Arms)	Input Power (W)	Power Factor
Average	250.216	1.466	363.759	0.992
Min	250.060	1.464	363.720	0.992
Max	250.560	1.467	363.800	0.992
Calibration correction (see Newton 4th calibration report 2020002794)	1.00025	1.00014	1.00010	1.0000
Instrument impedance correction (N4)		0.00024	0.0576	
Final value	250.28	1.466	363.79	0.992

Sample 9	Supply Voltage (Vrms)	Input Current (Arms)	Input Power (W)	Power Factor
Average	250.153	1.480	367.198	0.992
Min	249.560	1.478	367.130	0.992
Max	250.530	1.483	367.230	0.992
Calibration correction (see Newton 4th calibration report 2020002794)	1.00025	1.00014	1.00010	1.0000
Instrument impedance correction (N4)		0.00024	0.0576	
Final value	250.21	1.480	367.23	0.992

Sample 10	Supply Voltage (Vrms)	Input Current (Arms)	Input Power (W)	Power Factor
Average	250.310	1.476	366.323	0.992
Min	249.770	1.473	366.300	0.992
Max	250.820	1.479	366.350	0.992
Calibration correction (see Newton 4th calibration report 2020002794)	1.00025	1.00014	1.00010	1.0000
Instrument impedance correction (N4)		0.00024	0.0576	
Final value	250.37	1.476	366.36	0.992

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Table 1. Electrical operating parameters of BVP384 LED472/NW 360W.

Sample No.	Supply Voltage (Vrms)	Input Current (Arms)	Input Power (W)	Power Factor
Sample 1	250.24	1.475	366.09	0.992
Sample 2	250.15	1.477	366.29	0.992
Sample 3	250.34	1.475	366.03	0.992
Sample 4	250.23	1.475	365.99	0.992
Sample 5	250.56	1.477	366.95	0.992
Sample 6	250.28	1.476	366.22	0.992
Sample 7	250.27	1.465	363.45	0.992
Sample 8	250.28	1.466	363.79	0.992
Sample 9	250.21	1.480	367.23	0.992
Sample 10	250.37	1.476	366.36	0.992
Average	250.29	1.474	365.84	0.992

Test Equipment Used

Power meter: Newton 4th Power Analyser KinetiQ Model PPA2520 SN 133-00467

Power meter integration time (s): 5

Calibration Report: PlusEs report no. 2020002794

Luminaire thermometer: AMA S No. 1086110-0.1deg

General Photographs



Photo 1. Luminaire.



Photo 2. Luminaire during test.



Photo 3. Luminaire.

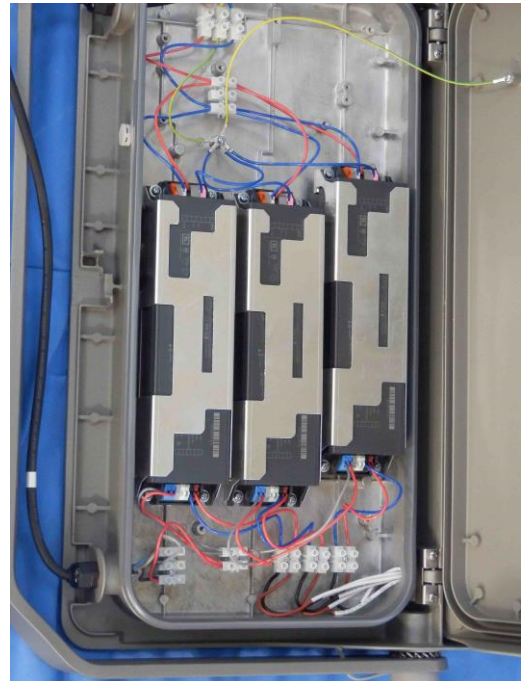


Photo 4. Gear tray.



Photo 5. LED drivers.

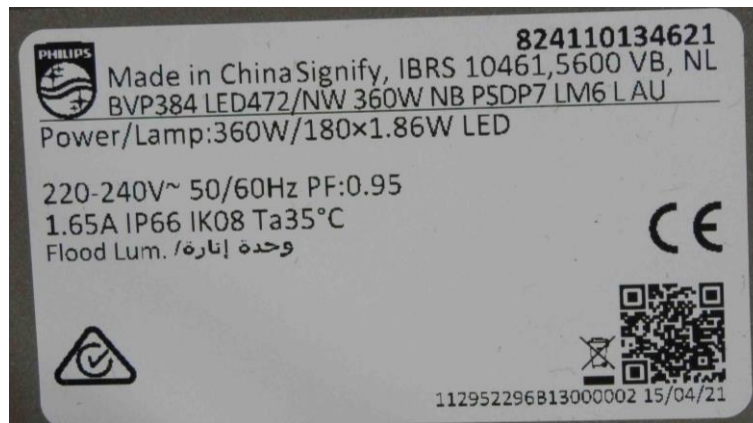


Photo 6. Luminaire label.