

Mr David Ripper
Senior Metrology Engineer
Australian Energy Market Operator Ltd
500 Collins Street,
Melbourne. VIC 3000.

18 December 2020

Re: Submission to include iGuzzini Street V949.G10 the National Electricity Market Load Table.

Dear Mr Ripper,

iGuzzini Partner illuminotecnica request to have the following luminaire included in the National Electricity Market Load Table for Unmetered Loads at a load value of **8.7W**

- iGuzzini **V949.G10**
- Tested with LED modules and LED driver only, excluding any other control device such as a PE Cell. Luminaire will be controlled via a remote mounted PE Cell connected to unmetered load supply

Supporting Documentation:

- City of Brisbane City Council letter requesting the inclusion of the luminaire to be listed NEM load table.
- NATA Test Report: 201216LCP
- Luminaire DATA Sheet.

We would appreciate your assistance for the inclusion onto the AEMO Table.

Should you have any queries, please do not hesitate to contact Rino Brindisi 0447 001234.

Kind Regards,



Rino Brindisi
Director



Dedicated to a better Brisbane

Brisbane Infrastructure Division
Field Services Branch
Green Square
505 St Pauls Tce, Fortitude Valley Qld 4006
T 07 3403 8888

07 September 2020

Mr Rob Sheppard
Light and Design Group
Unit 3, 60 Caswell Street
EAST BRISBANE QLD 4169

Dear Mr Sheppard,

Brisbane City Council wishes to use the below luminaire from IGuzzini on a trial street lighting installation. The fitting will be utilising Council's Rate 3 (unmetered supply) Public Lighting Network.

The luminaire is -

- IGuzzini Street: **V949.G10**

Please confirm that this luminaire meets the requirements to be included on the National Electricity Market load tables for unmetered connection points. And confirm that Light and Design Group will submit all the necessary requirements to the Regulator to enable this to occur.

For enquiries in relation to this matter please contact Brisbane City Council - on 07 3403 8888

Yours sincerely,

Majdi Hawari
City Lighting Coordinator
Asset Services

Brisbane City Council ABN 72 002 765 795

www.brisbane.qld.gov.au



Light Emission Distribution Laboratory

Division of Photometry & Electrical Testing Pty. Ltd ABN 11 166 255 134
Unit 4, 140 George St. Hornsby NSW 2077 Australia
Ph: +61 2 9476 3097 E: sales@ledlab.com.au



Accredited for compliance with ISO/IEC 17025 – For Testing. Accreditation No. 19541

Test Report: 201216LCP

Testing of Road Light Power for AEMO’s NEM Load Table for Unmetered Loads on Road lighting luminaires
for iGuzzini 9W LED Streetlight

Type of product:	9W LED Streetlight , Semi Cut-Off visor
Prepared for:	iGuzzini – Partner Illuminotecnica
Model number:	V949.G10 9W/LED
Description:	iGuzzini V949.G10 9W Category P LED Streetlight. Die-cast aluminium body, acrylic lens (semi cut-off visor), 14 x LED chips mounted on an board with polycarbonate lens assembly powered from a Philips LED driver (model number Xitanium Full Prog 40W 0.2-0.7A sXt).

Test objective and Method

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: iGuzzini - Partner Suite 100, Jones Bay Wharf, 26-32 Pirrama Rd, Pyrmont, NSW, 2009
Contact Rino Brindisi

Conclusion

The Average Load (W) is 8.69 W at .81 Power Factor.

Tested by: David Orwin On 14/12/2020 Authorised Signatory

Date: 15/12/2020

Alain Yetendje

The data specified in this report relates to the sample measured as received from the client under standard conditions specified in the Test Specification, and may not necessarily relate to other similar luminaires or other operating conditions. The tests and measurements covered by this document are traceable to Australian national standards of measurement. This report shall only be reproduced in full unless approved in writing by Light Emission Distribution Laboratory (LEDLab).

Results

Time till stabilisation: 3h

Electrical Measurements

Sample 1	Supply Voltage (Vrms)	Input Current (Arms)	Input Power (W)	Power Factor
Average	250.239	0.043	8.705	0.804
Min	249.980	0.043	8.703	0.804
Max	250.410	0.043	8.707	0.805
Calibration correction (see Newton 4th calibration report 2020002794)	1.00025	0.99958	1.00010	1.0000
Instrument impedance correction (N4)		0.00024	0.0576	
Final value	250.30	0.0430	8.65	0.804
Sample 2	Supply Voltage (Vrms)	Input Current (Arms)	Input Power (W)	Power Factor
Average	250.159	0.043	8.736	0.811
Min	249.870	0.043	8.734	0.810
Max	250.450	0.043	8.738	0.812
Calibration correction (see Newton 4th calibration report 2020002794)	1.00025	0.99958	1.00010	1.0000
Instrument impedance correction (N4)		0.00024	0.0576	
Final value	250.22	0.0428	8.68	0.811
Sample 3	Supply Voltage (Vrms)	Input Current (Arms)	Input Power (W)	Power Factor
Average	250.227	0.043	8.712	0.807
Min	250.070	0.043	8.709	0.807
Max	250.480	0.043	8.714	0.807
Calibration correction (see Newton 4th calibration report 2020002794)	1.00025	0.99958	1.00010	1.0000
Instrument impedance correction (N4)		0.00024	0.0576	
Final value	250.29	0.0429	8.66	0.807

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LEDLab Test Report: 201216LCP

Sample 4	Supply Voltage (Vrms)	Input Current (Arms)	Input Power (W)	Power Factor
Average	250.100	0.043	8.707	0.811
Min	249.770	0.043	8.705	0.810
Max	250.320	0.043	8.709	0.812
Calibration correction (see Newton 4th calibration report 2020002794)	1.00025	0.99958	1.00010	1.0000
Instrument impedance correction (N4)		0.00024	0.0576	
Final value	250.16	0.0427	8.65	0.811

Sample 5	Supply Voltage (Vrms)	Input Current (Arms)	Input Power (W)	Power Factor
Average	250.324	0.043	8.742	0.807
Min	250.120	0.043	8.739	0.807
Max	250.560	0.043	8.744	0.808
Calibration correction (see Newton 4th calibration report 2020002794)	1.00025	0.99958	1.00010	1.0000
Instrument impedance correction (N4)		0.00024	0.0576	
Final value	250.39	0.0430	8.68	0.807

Sample 6	Supply Voltage (Vrms)	Input Current (Arms)	Input Power (W)	Power Factor
Average	250.198	0.043	8.701	0.811
Min	250.000	0.043	8.698	0.811
Max	250.420	0.043	8.705	0.811
Calibration correction (see Newton 4th calibration report 2020002794)	1.00025	0.99958	1.00010	1.0000
Instrument impedance correction (N4)		0.00024	0.0576	
Final value	250.26	0.0426	8.64	0.811

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Sample 7	Supply Voltage (Vrms)	Input Current (Arms)	Input Power (W)	Power Factor
Average	250.129	0.044	8.831	0.811
Min	249.820	0.044	8.825	0.810
Max	250.430	0.044	8.835	0.812
Calibration correction (see Newton 4th calibration report 2020002794)	1.00025	0.99958	1.00010	1.0000
Instrument impedance correction (N4)		0.00024	0.0576	
Final value	250.19	0.0433	8.77	0.811

Sample 8	Supply Voltage (Vrms)	Input Current (Arms)	Input Power (W)	Power Factor
Average	250.193	0.043	8.762	0.808
Min	249.810	0.043	8.760	0.807
Max	250.500	0.043	8.765	0.809
Calibration correction (see Newton 4th calibration report 2020002794)	1.00025	0.99958	1.00010	1.0000
Instrument impedance correction (N4)		0.00024	0.0576	
Final value	250.25	0.0431	8.71	0.808

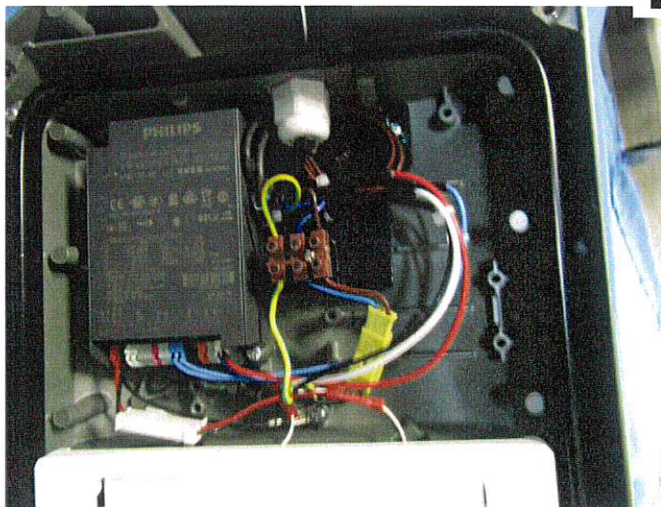
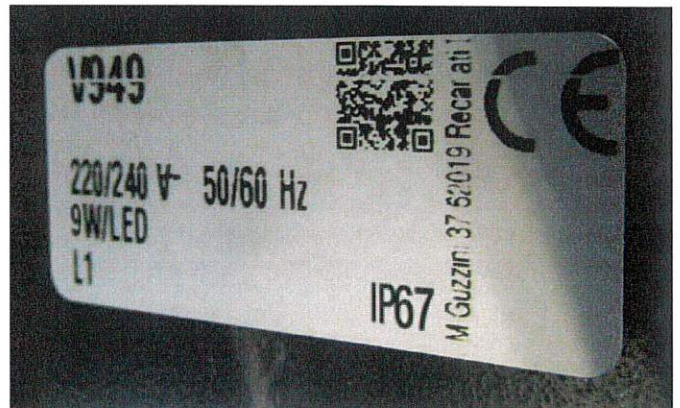
Sample 9	Supply Voltage (Vrms)	Input Current (Arms)	Input Power (W)	Power Factor
Average	250.202	0.044	8.807	0.801
Min	249.790	0.044	8.803	0.800
Max	250.560	0.044	8.813	0.802
Calibration correction (see Newton 4th calibration report 2020002794)	1.00025	0.99958	1.00010	1.0000
Instrument impedance correction (N4)		0.00024	0.0576	
Final value	250.26	0.0437	8.75	0.801

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LEDLab Test Report: 201216LCP

Sample 10	Supply Voltage (Vrms)	Input Current (Arms)	Input Power (W)	Power Factor
Average	250.202	0.043	8.745	0.805
Min	249.800	0.043	8.741	0.804
Max	250.580	0.043	8.747	0.806
Calibration correction (see Newton 4th calibration report 2020002794)	1.00025	0.99958	1.00010	1.0000
Instrument impedance correction (N4)		0.00024	0.0576	
Final value	250.26	0.0432	8.69	0.805

Marking



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Uncertainties

At a Confidence Level of 95% with a Coverage Factor of 2

Supply Voltage: ± 0.07%

Supply Current: ± 0.14%

Supply Power: ± 0.19%

Power Factor: ± 0.005

Ambient Temperature: ± 1°C

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. 1086110-0.1°

Summary

Electrical
operating
parameters
of

Sample No.	Supply Voltage (Vrms)	Input Current (Arms)	Input Power (W)	Power Factor
Sample 1	250.239	0.043	8.649	0.804
Sample 2	250.159	0.043	8.679	0.811
Sample 3	250.227	0.043	8.655	0.807
Sample 4	250.100	0.043	8.650	0.811
Sample 5	250.324	0.043	8.685	0.807
Sample 6	250.198	0.043	8.644	0.811
Sample 7	250.129	0.043	8.774	0.811
Sample 8	250.193	0.043	8.706	0.808
Sample 9	250.202	0.044	8.751	0.801
Sample 10	250.202	0.043	8.688	0.805
Average	250.20	0.04	8.69	0.81

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Setup

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