

<b>Test Report No.:</b> <i>Prüfbericht-Nr.:</i>	<b>50290012 001</b>	<b>Order No.:</b> <i>Auftrags-Nr.:</i>	<b>252100501</b>	<b>Page 1 of 8</b> <i>Seite 1 von 8</i>	
<b>Client Reference No.:</b> <i>Kunden-Referenz-Nr.:</i>	<b>698889</b>	<b>Order date:</b> <i>Auftragsdatum:</i>	<b>04-Jul-2019</b>		
<b>Client:</b> <i>Auftraggeber:</i>	<b>Braums Pty Ltd</b> 104 Proximity Dr, Sunshine West, VIC 3020, Australia				
<b>Test item:</b> <i>Prüfgegenstand:</i>	<b>LED Street Light</b>				
<b>Identification / Type No.:</b> <i>Bezeichnung / Typ-Nr.:</i>	<b>PX (1-5)</b>				
<b>Test specification:</b> <i>Prüfgrundlage:</i>	<b>Refer to page 2</b>				
<b>Date of receipt:</b> <i>Wareneingangsdatum:</i>	<b>27-Dec-2019</b>	<p>Detailed photo documentation See photo document section of this report</p>  <p>Detaillierte Fotodokumentation Siehe Fotodokument dieses Berichts</p>			
<b>Test sample No.:</b> <i>Prüfmuster-Nr.:</i>	<b>A001056864-001 to A001056864-010</b>				
<b>Testing period:</b> <i>Prüfzeitraum:</i>	<b>28-Dec-2019 to 8-Jan-2020</b>				
<b>Place of testing:</b> <i>Ort der Prüfung:</i>	<b>TUV Rheinland Australia Pty Ltd</b>				
<b>Testing laboratory:</b> <i>Prüflaboratorium:</i>	<b>TUV Rheinland Australia Pty Ltd</b>				
<b>Test result*:</b> <i>Prüfergebnis*:</i>	<b>Samples were submitted for measurement only, no compliance limits</b>				
<b>tested by / geprüft von:</b>		<b>reviewed by / kontrolliert von:</b>			
16-Jan-2020	Sathvik Varma P. / Test Engineer		16-Jan-2020	Daniel Ngo / Reviewer	
<b>Date</b> <i>Datum</i>	<b>Name / Position</b> <i>Name / Stellung</i>	<b>Signature</b> <i>Unterschrift</i>	<b>Date</b> <i>Datum</i>	<b>Name / Position</b> <i>Name / Stellung</i>	<b>Signature</b> <i>Unterschrift</i>
<b>Other / Sonstiges:</b>					
- Power consumption measurement at rated voltage for AEMO (Australian Energy Market Operator) at lab condition (Ambient (20±5)°C, Relative Humidity (45–75)%).					
<b>Condition of the test item at delivery:</b> <i>Zustand des Prüfgegenstandes bei Anlieferung:</i>		<b>New sample, no damage</b>			
* Legend:	P(ass) = passed a.m. test specification(s)	F(ail) = failed a.m. test specification(s)	N/A = not applicable	N/T = not tested	
Legende:	P(ass) = entspricht o.g. Prüfgrundlage(n)	F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	N/A = nicht anwendbar	N/T = nicht getestet	
<b>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</b> <i>Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.</i>					

### Test Report

**General remarks:**

1. This report shall not be reproduced, except in full.
2. Details in test data / test plan no. 252100501.
3. Reporting of results herein is in accordance with NATA recommendations taking into account U of M.
  - (a) For minimum limits - Where measurement is on the limit or above the limit it is deemed to comply. Where measurement is below the limit it is deemed not to comply.
  - (b) For maximum limits - Where measurement is on the limit or below the limit it is deemed to comply. Where measurement is above the limit it is deemed not to comply.
4. For reporting of results the estimated uncertainty for measurement taken into account at 95% confidence level.
5. This test report is based on assessment and tests applied to the specific test item(s) as submitted by the client.
6. TÜV Rheinland Australia disclaims any and all responsibility or obligation for any other item.
7. LCP test was conducted on 10 fittings per requested schemes.

**Description of the test item:**

Test items are branded: **Braums Pty Ltd**

Model (type number): **PX (1-5)**; Rating: 240V, 50Hz, 0.3A, 16W, IP66, IK06, CCT: 4K. Lamp control gear: MEAN WELL; Model Number: LPF-16D-54; Input: 100-240VAC, 50/60Hz, 0.4A; Output: +54VDC, 0.3A; Rating: Rated Power: 16.2W,  $t_c$ : 70°C,  $t_a$ : 50°C,  $\lambda$ : 0.95.

**Uncertainty of equipment used:**

Equipment	Equipment No.	Range used	Uncertainty (%)	Calibration Due Date
Digital Power Meter Model: WT310	MEL-1464	Voltage: 240V	±0.10	09-Dec-2020
		Current: 0.3-0.4A	±0.0004	
		Power: 23W	±0.05	
		Power Factor: 1	±0.001	

**Test procedure:**

The submitted test samples (consisted of the supplied lamp and control gear combination, if applicable) for the lamp circuit power consumption measurement were placed in a draught free room and at the laboratory condition (Ambient (20±5)°C, Relative Humidity (45–75)%) for 24 hours before and during the measurement.

The test samples were connected to the power source and supplied with voltage and frequency as listed in "TABLE: Power Measurement". The test samples were operated until the conditions of overall temperature equilibrium were established or at least 4 hours in stabilized operation with the supplied sources. Then the total power consumption measurements have been taken by power meter.

	Test Item	Supplied Voltage (V)	Frequency (Hz)	Measured Power (W)	Measured Current (mA)	Power Factor
1	<b>PX (1-5)</b>	220	50	16.521	78.12	0.9605
		230	50	16.569	75.12	0.9582
		240	50	16.609	72.68	0.9520
2	<b>PX (1-5)</b>	220	50	15.983	75.69	0.9591
		230	50	16.012	72.70	0.9566
		240	50	16.056	70.66	0.9459
3	<b>PX (1-5)</b>	220	50	15.517	73.63	0.9574
		230	50	15.569	70.96	0.9535
		240	50	15.620	68.49	0.9495
4	<b>PX (1-5)</b>	220	50	15.827	74.87	0.9609
		230	50	15.885	72.13	0.9576
		240	50	15.920	69.48	0.9543
5	<b>PX (1-5)</b>	220	50	15.577	73.67	0.9609
		230	50	15.617	71.04	0.9553
		240	50	15.669	68.73	0.9497
6	<b>PX (1-5)</b>	220	50	15.646	74.38	0.9557
		230	50	15.680	71.38	0.9545
		240	50	15.729	68.97	0.9501
7	<b>PX (1-5)</b>	220	50	15.881	75.21	0.9595
		230	50	15.935	72.27	0.9582
		240	50	15.965	69.98	0.9499
8	<b>PX (1-5)</b>	220	50	16.003	75.75	0.9597
		230	50	16.054	72.77	0.9588
		240	50	16.096	70.22	0.9550

9	<b>PX (1-5)</b>	220	50	15.743	74.25	0.9625
		230	50	15.791	71.79	0.9564
		240	50	15.827	69.39	0.9504
10	<b>PX (1-5)</b>	220	50	16.151	76.11	0.9637
		230	50	16.186	73.19	0.9609
		240	50	16.229	70.77	0.9555

Markings

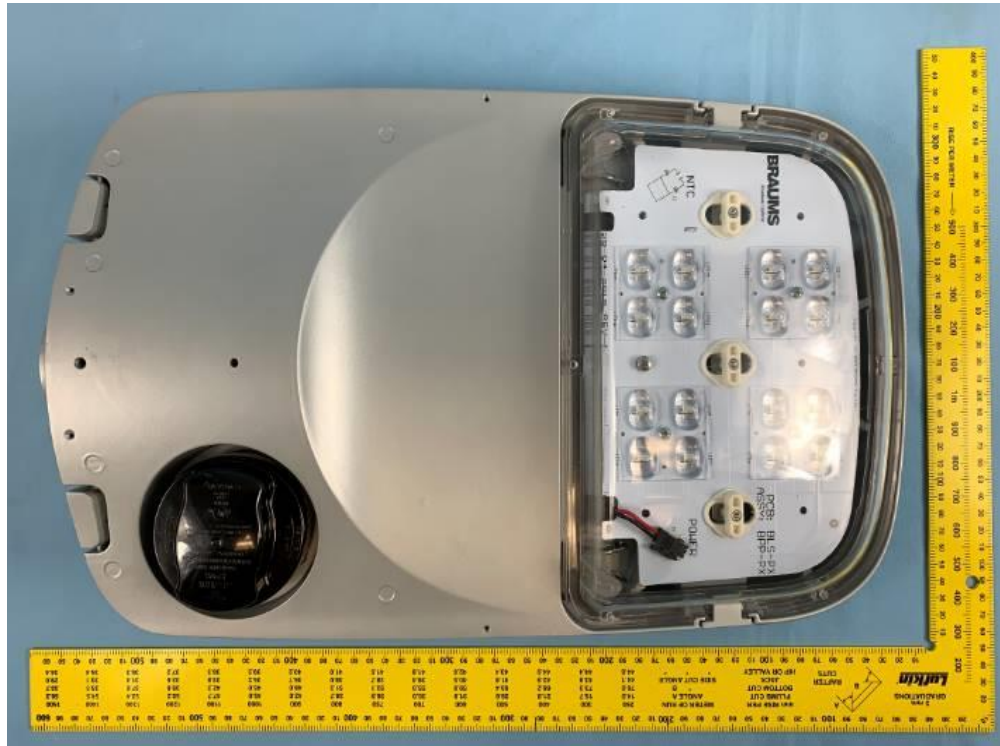


Rating Label



LED Driver Label

Photos



Front View

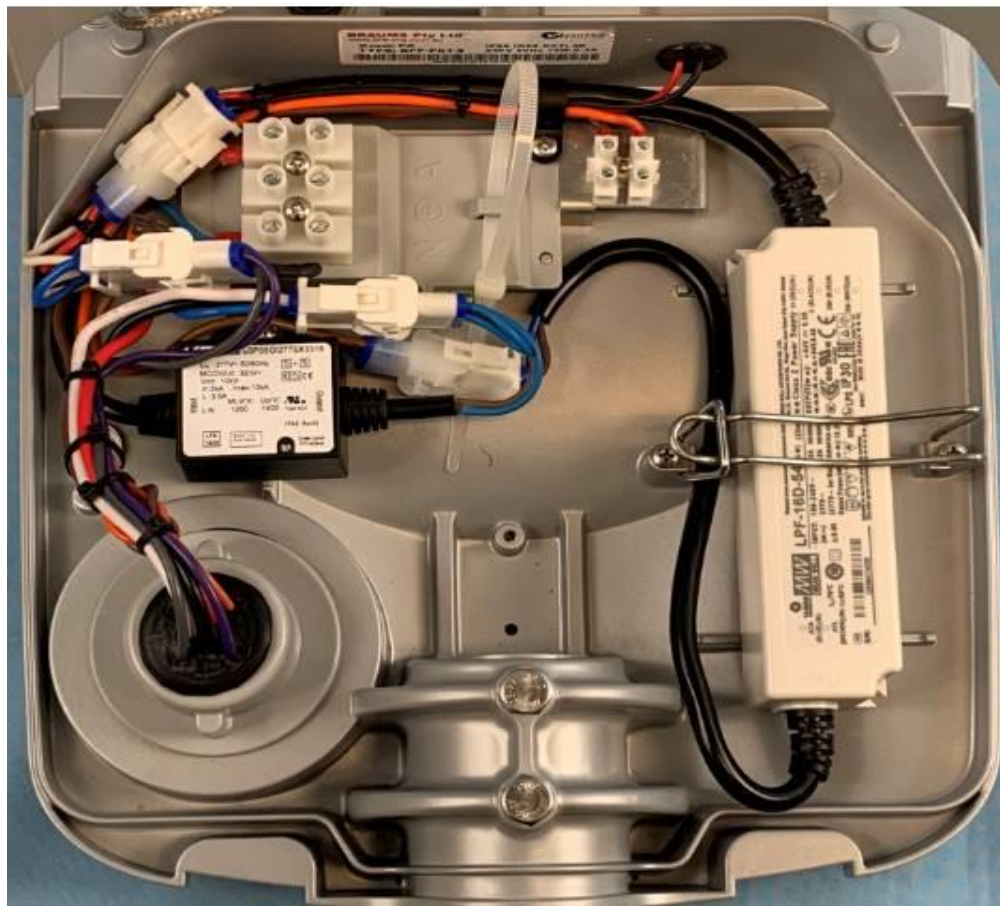


Rear View





LEDs Overview



Electrical connection compartment



PE Cell



PE Cell Socket

**End of Test Report**