


<b>Test report no.:</b> <i>Prüfbericht Nr.:</i>	<b>AU227MQ4 001</b>	<b>Order No.:</b> <i>Auftrags-Nr.:</i>	<b>252105057</b>	Page 1 of 10 Seite 1 von 10	
<b>Client Reference No.:</b> <i>Kunden-Referenz-Nr.:</i>	2006171	<b>Order date:</b> <i>Auftragsdatum:</i>	26-Oct-2022		
<b>Client:</b> <i>Auftraggeber:</i>	WE-EF Lighting Pty Ltd 6/13 Downard St, Braeside, VIC 3195, Australia				
<b>Test item:</b> <i>Prüfgegenstand:</i>	LED Street light				
<b>Identification/ Type No.:</b> <i>Bezeichnung / Typ-Nr.</i>	Refer to page 4				
<b>Order content:</b> <i>Auftrags-Inhalt:</i>	Lamp Circuit Power (LCP) Measurement				
<b>Test specification:</b> <i>Prüfgrundlage:</i>	Refer to page 2				
<b>Date of sample receipt:</b> <i>Wareneingangsdatum:</i>	10-Nov-2022				
<b>Test sample No.:</b> <i>Prüfmuster-Nr.:</i>	A003370306-001 to A003370306-010				
<b>Testing period:</b> <i>Prüfzeitraum:</i>	10-Nov-2022 - 14-Nov-2022				
<b>Place of testing:</b> <i>Ort der Prüfung:</i>	TUV Rheinland Australia Pty Ltd				
<b>Testing laboratory:</b> <i>Prüflaboratorium:</i>	TUV Rheinland Australia Pty Ltd				
<b>Test result*:</b> <i>Prüfergebnis*:</i>	Samples were submitted for measurements only, no compliance verification				
<b>tested by:</b> <i>geprüft von:</i>	<b>authorized by: /</b> <i>genehmigt von:</i>				
<b>Date:</b> 23-Nov-2022 <i>Datum:</i>	Sathvik Varma P/	<b>Issue Date:</b> 23-Nov-2022 <i>Ausstellungsdatum:</i>	Daniel Ngo/		
<b>Position / Stellung:</b>	Expert	<b>Position / Stellung:</b>	Expert		
<b>Other /</b> <i>Sonstiges:</i>	- 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>	Test item complete and undamaged				
* 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	
<p><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></p> <p><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></p>					

Test report no.: AU227MQ4 001

Page 2 of 10  
 Seite 2 von 10

**Remarks**

<b>1</b>	The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system. Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.
<b>2</b>	As contractually agreed, this document has been signed digitally only. TUV Rheinland has not verified and unable to verify which legal or other pertaining requirements are applicable for this document. Such verification is within the responsibility of the user of this document. Upon request by its client, TUV Rheinland can confirm the validity of the digital signature by a separate document. Such request shall be addressed to our Sales department. An environmental fee for such additional service will be charged.
<b>3</b>	Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report. Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.
<b>4</b>	The decision rule for statements of conformity in this test report is based on the “Zero Guard Band Rule” and “Simple Acceptance” in accordance with ILAC G8:2019 and IEC Guide 115:2021, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report.
<b>5</b>	This test report is based on assessment and tests applied to the specific test item(s) as submitted by the client. TÜV Rheinland Australia disclaims any and all responsibility or obligation for any other item.
<b>6</b>	LCP test was conducted on 10 fittings as per requested schemes

**History of revision:**

N/A

**Options/accessories/ancillary equipment:**

The equipment was tested without any optional accessory installed. Hence, this report does not cover parameters that are influenced by the installation of optional accessory that might affect safety in the meaning of this standard.

**Uncertainty of equipment used:**

Equipment	Equipment No.	Range used	Uncertainty	Calibration Due Date
Digital Power Meter Model: WT310	MEL-1464	Voltage: 200V - 300V	±0.2V	21-Apr-2023
		Current: 75mA to 100mA	±0.1mA	
		Power: 115mW – 4.6kW	±2.5%	
		Power Factor: 1	±0.001pf	

**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 report no.: AU227MQ4 001

Page 3 of 10  
 Seite 3 von 10

**Product description**

1	<b>Product details:</b>	LED Street Light Trademark / Manufacturer: WE-EF Model / Part number: VFL520 / 108-8500+8081 Rating: 240Vac 0.078A 16W; Class I; IP65; IK08; ta: 40°C; CCT: PC Amber																	
2	<b>Dimensions / Weight:</b>	Approx. Length x Width x Depth [mm]: 570 x 210 x 150 Approx. Weight [kg]: 5.35																	
3	<b>Operating elements:</b>	Built-in LED driver Trademark / Manufacturer: TRIDONIC Model: LCO 40/200-1050/64 o4a NF C EXC3 Input rating: 220-240V 50/60Hz $\lambda$ : 0.97 <table border="1" data-bbox="557 909 1139 1070"> <thead> <tr> <th></th> <th>lout(mA)</th> <th>ta (°C)</th> <th>tc (°C)</th> </tr> </thead> <tbody> <tr> <td rowspan="4">LV</td> <td>200...≤250</td> <td>-40...+70</td> <td>80</td> </tr> <tr> <td>&gt;250...≤650</td> <td>-40...+70</td> <td>85</td> </tr> <tr> <td>&gt;650...≤800</td> <td>-40...+70</td> <td>90</td> </tr> <tr> <td>&gt;800...≤1050</td> <td>-40...+65</td> <td>85</td> </tr> </tbody> </table> Output rating (LV): 50Vdc 200–1050mA 40W		lout(mA)	ta (°C)	tc (°C)	LV	200...≤250	-40...+70	80	>250...≤650	-40...+70	85	>650...≤800	-40...+70	90	>800...≤1050	-40...+65	85
	lout(mA)	ta (°C)	tc (°C)																
LV	200...≤250	-40...+70	80																
	>250...≤650	-40...+70	85																
	>650...≤800	-40...+70	90																
	>800...≤1050	-40...+65	85																
4	<b>Equipment / Accessories:</b>	N/A																	
5	<b>Used materials:</b>	N/A																	
6	<b>Other:</b>	Test sample(s), as well sample information, description, product details and intended usage was provided by customer.																	
7	<b>Test sample obtaining:</b>	<input checked="" type="checkbox"/> Sending by customer <input type="checkbox"/> Sampling by TÜV Rheinland Group <input type="checkbox"/> others:																	
8	<b>Model Variations:</b>	All part numbers of model <b>VFL520</b> are similar, except the difference of light optic distribution and CCT. Refer to table on page 4 for details.																	

Test report no.: AU227MQ4 001

Page 4 of 10  
 Seite 4 von 10

Product description

Model	Part number	Rating	Light optic distribution	Colour Temperature (CCT)
VFL520	108-2315+*	240Vac 0.078A 16W; IP65; IK08; ta: 40°C; Class I	P65	2700K
	108-1500+*			3000K
	108-1501+*			4000K
	108-8500+*			PC Amber
	108-2303+*	240Vac 0.078A 16W; IP65; IK08; ta: 40°C; Class I	S60	2700K
	108-1480+*			3000K
	108-1481+*			4000K
	108-2304+*	240Vac 0.078A 16W; IP65; IK08; ta: 40°C; Class I	S65	2700K
	108-1484+*			3000K
	108-1485+*			4000K
	108-2309+*	240Vac 0.078A 16W; IP65; IK08; ta: 40°C; Class I	S70	2700K
	108-1488+*			3000K
	108-1489+*			4000K
	108-2313+*	240Vac 0.078A 16W; IP65; IK08; ta: 40°C; Class I	A60	2700K
	108-1496+*			3000K
	108-1497+*			4000K
	108-2311+*	240Vac 0.078A 16W; IP65; IK08; ta: 40°C; Class I	R65	2700K
	108-1492+*			3000K
108-1493+*	4000K			

\* can be presented as one of expression below:

**8081** presents for luminaires fitted with NEMA socket and shorting cap

**'blank'** presents for luminaires without NEMA socket

Test report no.: AU227MQ4 001

Page 5 of 10  
 Seite 5 von 10

**TABLE: Power Measurement**

	Test Item (Model / Part number)	Supplied Voltage (V)	Frequency (Hz)	Measured Input Power (W)	Measured Input Current (mA)	Power Factor
1	VFL520 / 108-8500+8081	250.03	50	15.097	69.48	0.8690
2	VFL520 / 108-8500+8081	250.01	50	15.168	69.34	0.8750
3	VFL520 / 108-8500+8081	250.02	50	15.104	69.20	0.8730
4	VFL520 / 108-8500+8081	250.06	50	15.197	69.57	0.8736
5	VFL520 / 108-8500+8081	250.07	50	15.138	69.72	0.8683
6	VFL520 / 108-8500+8081	250.06	50	15.230	70.13	0.8684
7	VFL520 / 108-8500+8081	250.03	50	14.972	68.95	0.8684
8	VFL520 / 108-8500+8081	250.03	50	15.105	69.50	0.8693
9	VFL520 / 108-8500+8081	250.07	50	15.067	69.26	0.8700
10	VFL520 / 108-8500+8081	250.05	50	15.134	69.48	0.8711
<b>Average</b>		<b>250.04</b>	<b>50</b>	<b>15.121</b>	<b>69.46</b>	<b>0.8706</b>

Test report no.: AU227MQ4 001

Page 6 of 10  
Seite 6 von 10

Marking



Test report no.: AU227MQ4 001

Page 7 of 10  
Seite 7 von 10

Photo documentation



Product overview

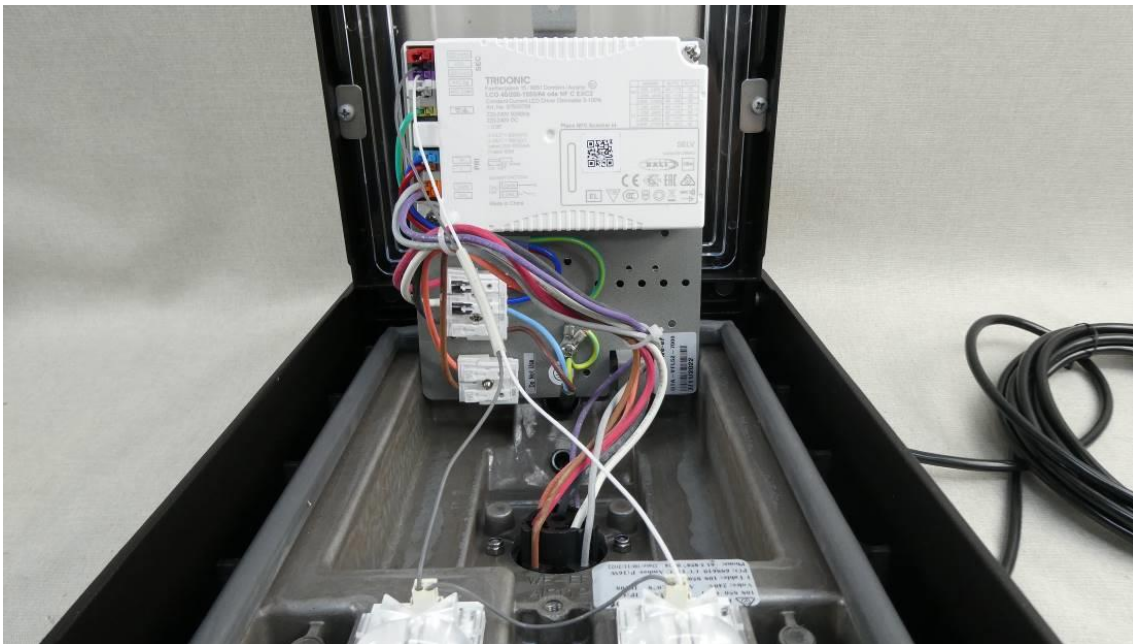


Product overview

Photo documentation



LEDs



Electrical compartment overview



Photo documentation



LED driver



Shorting cap socket

Photo documentation



Shorting cap



Surge protector

End of test report