


<b>Test Report No.:</b> <i>Prüfbericht-Nr.:</i>	<b>50340052 001</b>	<b>Order No.:</b> <i>Auftrags-Nr.:</i>	<b>252100807</b>	<b>Page 1 of 7</b> <i>Seite 1 von 7</i>	
<b>Client Reference No.:</b> <i>Kunden-Referenz-Nr.:</i>	<b>483815</b>	<b>Order date:</b> <i>Auftragsdatum:</i>	<b>31-Jan-2020</b>		
<b>Client:</b> <i>Auftraggeber:</i>	<b>WE-EF Lighting Pty Ltd</b> 6/13 Downard Street, Braeside, VIC 3195, Australia.				
<b>Test item:</b> <i>Prüfgegenstand:</i>	<b>LED street light</b>				
<b>Identification / Type No.:</b> <i>Bezeichnung / Typ-Nr.:</i>	<b>Refer to page 2</b>				
<b>Test specification:</b> <i>Prüfgrundlage:</i>	<b>Refer to page 2</b>				
<b>Date of receipt:</b> <i>Wareneingangsdatum:</i>	<b>31-Jan-2020</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>A001065741-001 to A001065741-010</b>				
<b>Testing period:</b> <i>Prüfzeitraum:</i>	<b>03-Feb-2020 to 10-Feb-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>				
26-Feb-2020	Sathvik Varma P. / Test Engineer	26-Feb-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 <i>Legende: P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet</i>					
<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. 2521007807.
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 as per requested schemes.

**Description of the test item:**

Test items are branded: **WE-EF**

Model (part number): **ZFT444 S65 (115-1371)**; Ratings: 220-240VAC, 50-60Hz, 20W, IP66; CCT: 3000K.  
 Lamp control gear: WE-EF; Model Number: 004-2660; Input: 220-240VAC, 50/60Hz, 0.18-0.17A, pf=0.97;  
 Output (load condition): 12-94Vdc (0.35A) and 12-47Vdc (0.7A), Output (no load condition) = 100Vdc max;  
 ta=-25-60°C; tc=100°C.

**Model variations:**

All models are similar, except different CCT, different part numbers and different optical lens.

Model (part number)	Rating	Optical lens
ZFT444 S65 (115-1371)	220-240VAC, 50-60Hz, 20W, IP66; CCT: 3000K	S65 – Streetlight Distribution
ZFT444 S65 (115-1606)	220-240VAC, 50-60Hz, 20W, IP66; CCT: 2700K	
ZFT444 S65 (115-1372)	220-240VAC, 50-60Hz, 20W, IP66; CCT: 4000K	
ZFT444 R65 (115-1608)	220-240VAC, 50-60Hz, 20W, IP66; CCT: 2700K	R65 – Rectangular, forward-throw beam
ZFT444 R65 (115-1367)	220-240VAC, 50-60Hz, 20W, IP66; CCT: 3000K	
ZFT444 R65 (115-1368)	220-240VAC, 50-60Hz, 20W, IP66; CCT: 4000K	

**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: 240V - 300V	±0.10V	09-Dec-2020
		Current: 0.1A – 0.3A	±0.0002A	
		Power: 23W	±0.05W	
		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 Item	Supplied Voltage (V)	Frequency (Hz)	Measured Power (W)	Measured Current (A)	Power Factor
1	<b>ZFT444 S65 (115-1371)</b>	220	50	21.437	0.1043	0.9333
		230	50	21.440	0.1004	0.9271
		240	50	21.447	0.9723	0.9189
2	<b>ZFT444 S65 (115-1371)</b>	220	50	21.303	0.1037	0.9337
		230	50	21.308	0.0996	0.9287
		240	50	21.295	0.0963	0.9207
3	<b>ZFT444 S65 (115-1371)</b>	220	50	21.248	0.1034	0.9319
		230	50	21.269	0.0996	0.9276
		240	50	21.276	0.0964	0.9195
4	<b>ZFT444 S65 (115-1371)</b>	220	50	21.153	0.1031	0.9309
		230	50	21.153	0.0994	0.9253
		240	50	21.099	0.0958	0.9170
5	<b>ZFT444 S65 (115-1371)</b>	220	50	21.076	0.1033	0.9265
		230	50	21.318	0.1001	0.9256
		240	50	21.334	0.0967	0.9176
6	<b>ZFT444 S65 (115-1371)</b>	220	50	21.273	0.1042	0.9280
		230	50	21.271	0.1001	0.9229
		240	50	21.202	0.0965	0.9147
7	<b>ZFT444 S65 (115-1371)</b>	220	50	20.768	0.1015	0.9298
		230	50	21.061	0.0990	0.9245
		240	50	21.078	0.0957	0.9170
8	<b>ZFT444 S65 (115-1371)</b>	220	50	21.405	0.1043	0.9323
		230	50	21.408	0.1003	0.9277
		240	50	20.798	0.0944	0.9174
9	<b>ZFT444 S65 (115-1371)</b>	220	50	21.295	0.1041	0.9282
		230	50	21.299	0.1000	0.9253
		240	50	21.308	0.0967	0.9173

10	<b>ZFT444 S65 (115-1371)</b>	220	50	21.320	0.1039	0.9323
		230	50	21.322	0.0998	0.9276
		240	50	21.077	0.0955	0.9192

**Markings**



Rating Label

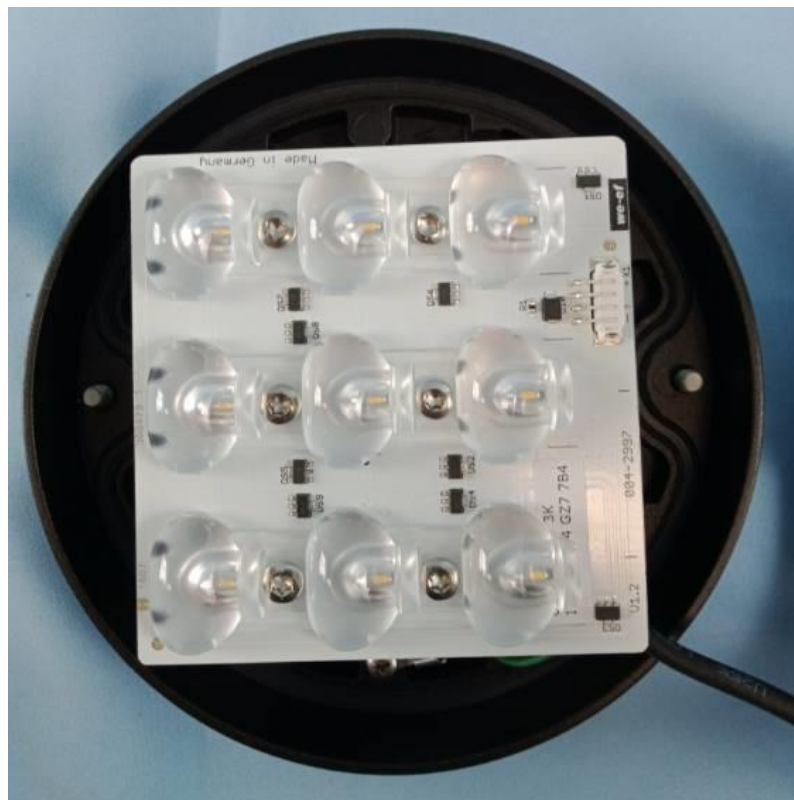


LED Driver Label

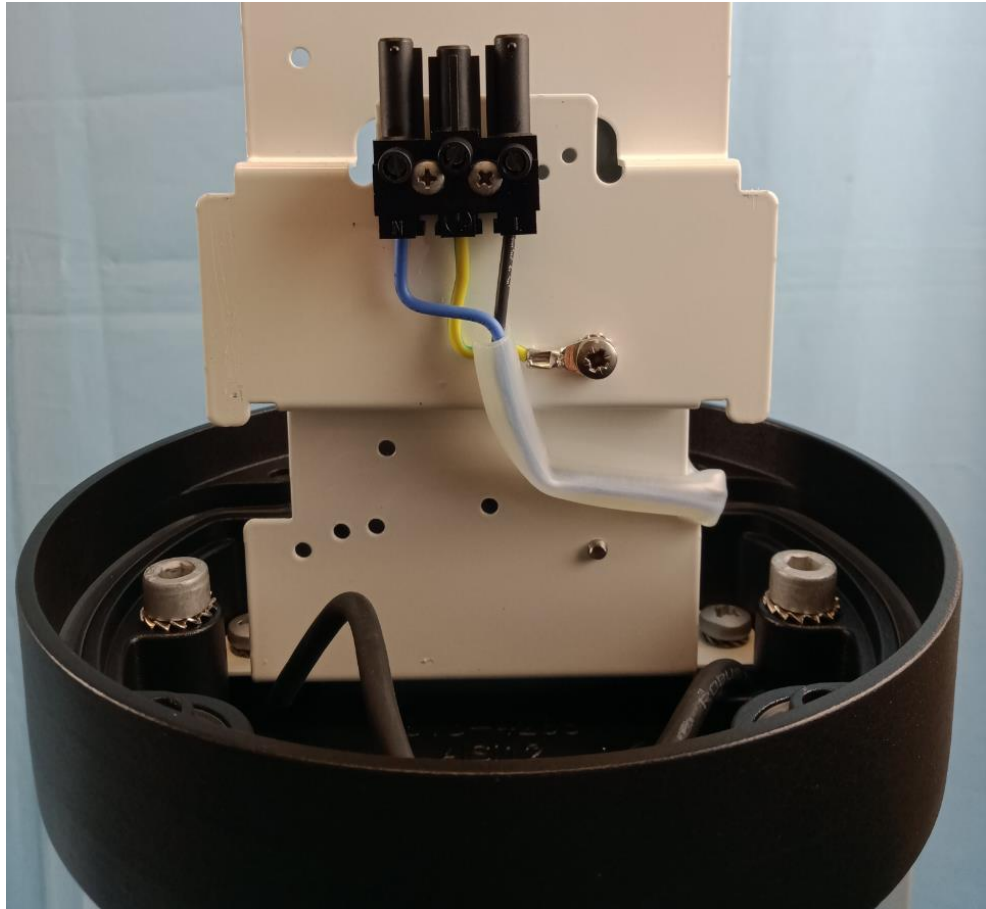
## Photos



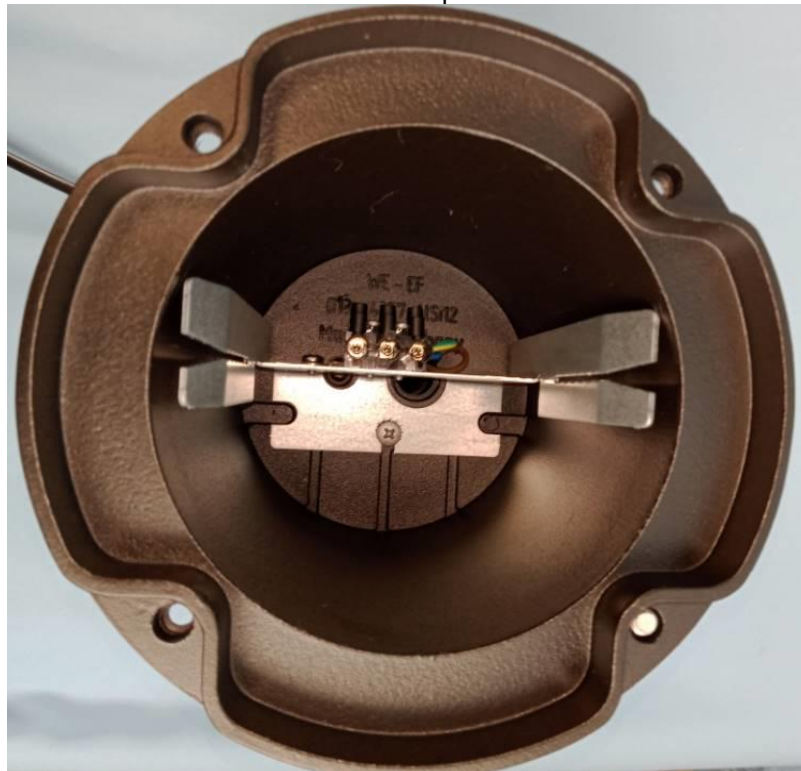
Product Overview



LEDs Overview



Electrical Connection Compartment – Side view



Electrical Connection Compartment – Top view  
**End of the Test Report**