

Test report no.: <i>Prüfbericht Nr.:</i>	AU21Z8KD 001	Order No.: <i>Auftrags-Nr.:</i>	252103790	Page 1 of 9 Seite 1 von 9
Client Reference No.: <i>Kunden-Referenz-Nr.:</i>	2358497	Order date: <i>Auftragsdatum:</i>	23-Sep-2021	
Client: <i>Auftraggeber:</i>	Vicpole Pty Ltd 62 Jersey Road, Bayswater, VIC 3153, Australia			
Test item: <i>Prüfgegenstand:</i>	LED Street Light			
Identification/ Type No.: <i>Bezeichnung / Typ-Nr.</i>	TOORAK 12 LED 14W			
Order content: <i>Auftrags-Inhalt:</i>	Lamp Circuit Power (LCP) Measurement			
Test specification: <i>Prüfgrundlage:</i>	Refer to page 3			
Date of sample receipt: <i>Wareneingangsdatum:</i>	20-Sep-2021			
Test sample No.: <i>Prüfmuster-Nr.:</i>	A003133678-001 - A003133678-009			
Testing period: <i>Prüfzeitraum:</i>	28-Sep-2021 to 30-Sep-2021			
Place of testing: <i>Ort der Prüfung:</i>	TUV Rheinland Australia Pty Ltd			
Testing laboratory: <i>Prüflaboratorium:</i>	TUV Rheinland Australia Pty Ltd			
Test result*: <i>Prüfergebnis*:</i>	Samples were submitted for measurement only, no compliance limits			
tested by: <i>geprüft von:</i>	authorized by: / <i>genehmigt von:</i>			
Date: 04-Oct-2021 <i>Datum:</i>	Sathvik Varma P. /		Issue Date: 04-Oct-2021 <i>Ausstellungsdatum:</i> Daniel Ngo /	
Position / Stellung:	Expert		Position / Stellung: Expert	
Other / <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)%).			
Condition of the test item at delivery: <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>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.</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>				



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Remarks

1	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.
2	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.
3	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.
4	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.
5	For reporting of results the estimated uncertainty for measurement taken into account at 95% confidence level.
6	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.
7	This test report (No. AU21Z8KD 001) is to be read in conjunction with test report No. AU21JYJN 001 issued on 03-Aug-2021 by TUV Rheinland Australia Pty Ltd.
8	LCP test was conducted on additional 9 light fittings (model TOORAK 12 LED 14W) submitted by client. Previous test result of first light fitting tested in test report No. AU21JYJN 001 was used to obtain the total average calculation.

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	12-Apr-2022
		Current: 75mA – 100mA	±0.1mA	
		Power: 115mW – 4.6kW	±2.5%	
		Power Factor: 1	±0.001pf	

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Remarks

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 $(20\pm 5)^{\circ}\text{C}$, 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.

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Product description

1	Product details:	LED Street Light Trademark / Manufacturer: Vicpole Pty Ltd Model: TOORAK 12 LED 14W Rating: 230-277Vac 50Hz 0.06A 14W; IP66 (LED compartment) IP44 (Gear compartment); IK07
2	Dimensions / Weight:	Diameter x Height [mm]: 563 x 410 Weight [kg]: 8.15
3	Operating elements:	Built-in control gear Trademark / Manufacturer: Mean Well Model: LPF-16D-48 Input rating: 100-240Vac 50/60Hz; 0.4A max; 16.32W λ :0.95; Ta: 50°C; Tc: 70°C Output rating: 48Vdc; 0.34A max;
4	Equipment / Accessories:	N/A
5	Used materials:	N/A
6	Other:	Test sample(s), as well sample information, description, product details and intended usage was provided by customer.
7	Test sample obtaining:	<input checked="" type="checkbox"/> Sending by customer <input type="checkbox"/> Sampling by TÜV Rheinland Group <input type="checkbox"/> others:

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TABLE: Power Measurement

	Test Item	Supply voltage (V)	Frequency (Hz)	Measured Input Power (W)	Measured Current (A)	Power Factor
1.	TOORAK 12 LED 14W	250.96	50	14.73	0.0619	0.9487
2.	TOORAK 12 LED 14W	250.93	50	14.71	0.0621	0.9441
3.	TOORAK 12 LED 14W	250.84	50	14.64	0.0617	0.9454
4.	TOORAK 12 LED 14W	250.83	50	14.67	0.0621	0.9414
5.	TOORAK 12 LED 14W	250.92	50	15.01	0.0632	0.9475
6.	TOORAK 12 LED 14W	250.98	50	14.94	0.0629	0.9457
7.	TOORAK 12 LED 14W	250.92	50	14.72	0.0621	0.9451
8.	TOORAK 12 LED 14W	250.95	50	14.97	0.0632	0.9440
9.	TOORAK 12 LED 14W	250.80	50	14.58	0.0617	0.9425
10.	TOORAK 12 LED 14W	250.91	50	14.62	0.0616	0.9462
Average		250.904	50	14.759	0.06225	0.94506

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Marking	

VICPOLE
STREETSCAPE SOLUTIONS
Bayswater Vic (03) 9738 0808



Model TOORAK 12 LED 14W
Source LED Driver 350mA 4K
Volts 230V-277V 0.06A 50 HZ
I-Table TRN-28772.CIE
System Watts 14W
CCT 4000K
IK Rating IK07
Manufactured Date: JUNE 2021
LED Compartment IP66 Gear Compartment IP44

Rating label for LED street light



Rating label for LED control gear

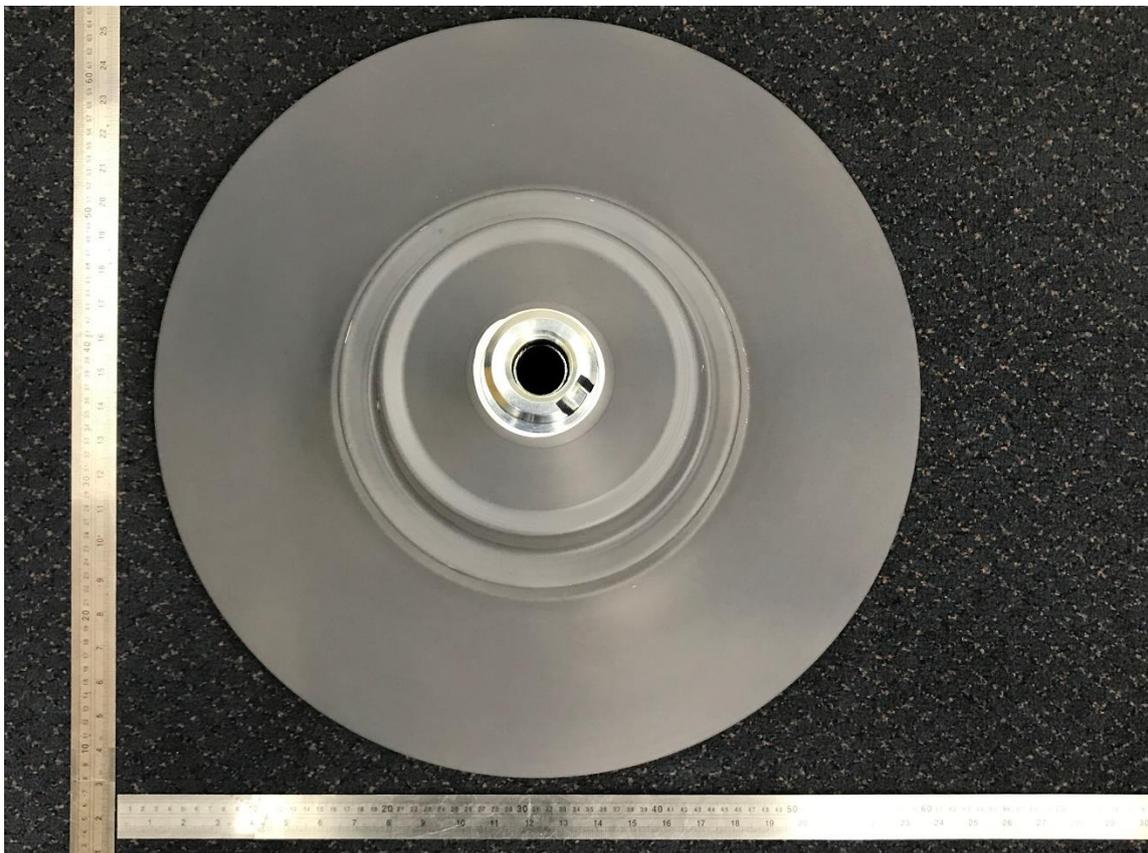
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Photo documentation



Product overview



Product overview



LED modules



Surge protective device

Photo documentation



Internal construction overview

End of test report