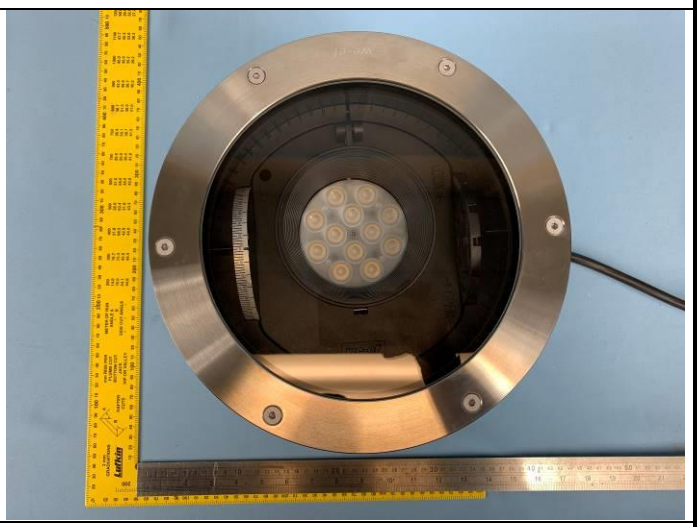
Test Report No.: *Prüfbericht-Nr.:*	**60395203 001**	**Order No.:** *Auftrags-Nr.:*	**252102750**	**Page 1 of 8** *Seite 1 von 8*
Client Reference No.: *Kunden-Referenz-Nr.:*	**2006171**	**Order date:** *Auftragsdatum:*	**15-Jul-2020**	
Client: *Auftraggeber:*	**WE-EF Lighting Pty Ltd** 6/13 Downard Street, Braeside, VIC 3195, Australia			
Test item: *Prüfgegenstand:*	**Inground Luminaire**			
Identification / Type No.: *Bezeichnung / Typ-Nr.:*	**Refer to page 2**			
Order content.: *Auftrags-Inhalt:*	**Lamp Circuit Power Measurement (LCP)**			
Test specification: *Prüfgrundlage:*	**Refer to page 2**			

Date of sample receipt: *Wareneingangsdatum:*	**15-Jul-2020**
Test sample No.: *Prüfmuster-Nr.:*	**A002867444-001 to A002867444-010**
Testing period: *Prüfzeitraum:*	**21-Jul-2020 to 28-Jul-2020**
Place of testing: *Ort der Prüfung:*	**TUV Rheinland Australia Pty Ltd**
Testing laboratory: *Prüflaboratorium:*	**TUV Rheinland Australia Pty Ltd**
Test result*: *Prüfergebnis*:*	**Samples were submitted for measurement only, no compliance limits**



reviewed by / *überprüft von*:

Date	Name / Position	Signature
05-Aug-2020	Faisal Mahmood / Test Engineer	
Datum	*Name / Stellung*	*Unterschrift*

authorized by / *genehmigt von*:

Date	Name / Position	Signature
05-Aug-2020	Daniel Ngo / Reviewer	
Datum	*Name / Stellung*	*Unterschrift*

Other / *Sonstiges*:

Power consumption measurement at rated voltage for AEMO (Australian Energy Market Operator) at lab condition (Ambient (20±5) ºC, Relative Humidity (45–75) %)

Condition of the test item at delivery: *Zustand des Prüfgegenstandes bei Anlieferung:* **New sample, no damage**

* 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*

Test Report

Test item particulars:
Approximate dimension [Length x Width x Height] (mm): 285 x 285 x 200
Approximate mass (kg): 9.35

General remarks:
1. This report shall not be reproduced, except in full.
2. Details in test data / test plan no. 252102750.
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. TÜV Rheinland Australia disclaims any and all responsibility or obligation for any other item.
6. LCP test was conducted on 10 fittings as per requested schemes.

Description of the test item:
Brand name: **WE-EF**; Model (part number): **ETC340-GB (185-7713)**; Ratings: 230Vac, 50Hz, 29W, IP67, CCT: 3000K; Lamp control gear: **TRIDONIC**; Model number: LCO 40/200-1050/64 o4a NF C EXC3; Input: 220-240Vac, 50/60Hz; Output: 200-1050mA, 40W, ^=0.97, ta= -40°C to 70°C; tc=90 °C.

Model Variations:
All models are similar, except different CCT, different part numbers and different light distribution optical lens.

Model (part number)	Rating	Light distribution optical lens
ETC340-GB (185-7820)	230Vac, 50Hz, 29W, IP67, CCT: 2700K	Symmetric, wide beam [B]
ETC340-GB (185-7821)	230Vac, 50Hz, 29W, IP67, CCT: 2700K	Symmetric, medium beam [M]
ETC340-GB (185-7822)	230Vac, 50Hz, 29 W, IP67, CCT: 2700K	Symmetric, very narrow beam [EE]
ETC340-GB (185-7823)	230Vac, 50Hz, 29 W, IP67, CCT: 2700K	Symmetric, very narrow beam, sharp cut-off [EES]
ETC340-GB (185-7713)	230Vac, 50Hz, 29 W, IP67, CCT: 3000K	Symmetric, wide beam [B]
ETC340-GB (185-7715)	230Vac, 50Hz, 29 W, IP67, CCT: 4000K	Symmetric, wide beam [B]
ETC340-GB (185-9722)	230Vac, 50Hz, 29 W, IP67, CCT: 3000K	Symmetric, medium beam [M]
ETC340-GB (185-9726)	230Vac, 50Hz, 29 W, IP67, CCT: 4000K	Symmetric, medium beam [M]
ETC340-GB (185-9721)	230Vac, 50Hz, 29 W, IP67, CCT: 3000K	Symmetric, very narrow beam [EE]
ETC340-GB (185-9725)	230Vac, 50Hz, 29 W, IP67, CCT: 4000K	Symmetric, very narrow beam [EE]
ETC340-GB (185-7714)	230Vac, 50Hz, 29 W, IP67, CCT: 3000K	Symmetric, very narrow beam, sharp cut-off [EES]
ETC340-GB (185-7716)	230Vac, 50Hz, 29 W, IP67, CCT: 4000K	Symmetric, very narrow beam, sharp cut-off [EES]

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: 240V - 300V	±0.10V	09-Dec-2020
		Current: 0.1A – 0.3A	±0.0002A	
		Power: 57.5W	±0.08W	
		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 (mA)	Power Factor
1	**ETC340-GB (185-7713)**	220	50	29.064	220.74	0.9789
		230	50	28.891	216.53	0.9722
		240	50	28.882	212.79	0.9654
2	**ETC340-GB (185-7713)**	220	50	28.807	221.21	0.9782
		230	50	28.951	215.44	0.9726
		240	50	28.985	213.72	0.9652
3	**ETC340-GB (185-7713)**	220	50	28.897	220.74	0.9775
		230	50	28.941	219.24	0.9713
		240	50	28.848	213.05	0.9634
4	**ETC340-GB (185-7713)**	220	50	28.888	222.36	0.9776
		230	50	28.842	217.05	0.9710
		240	50	28.861	209.82	0.9633
5	**ETC340-GB (185-7713)**	220	50	28.953	221.84	0.9775
		230	50	29.073	217.21	0.9723
		240	50	29.070	213.93	0.9642
6	**ETC340-GB (185-7713)**	220	50	29.264	224.39	0.9784
		230	50	29.305	221.26	0.9720
		240	50	29.289	212.06	0.9656

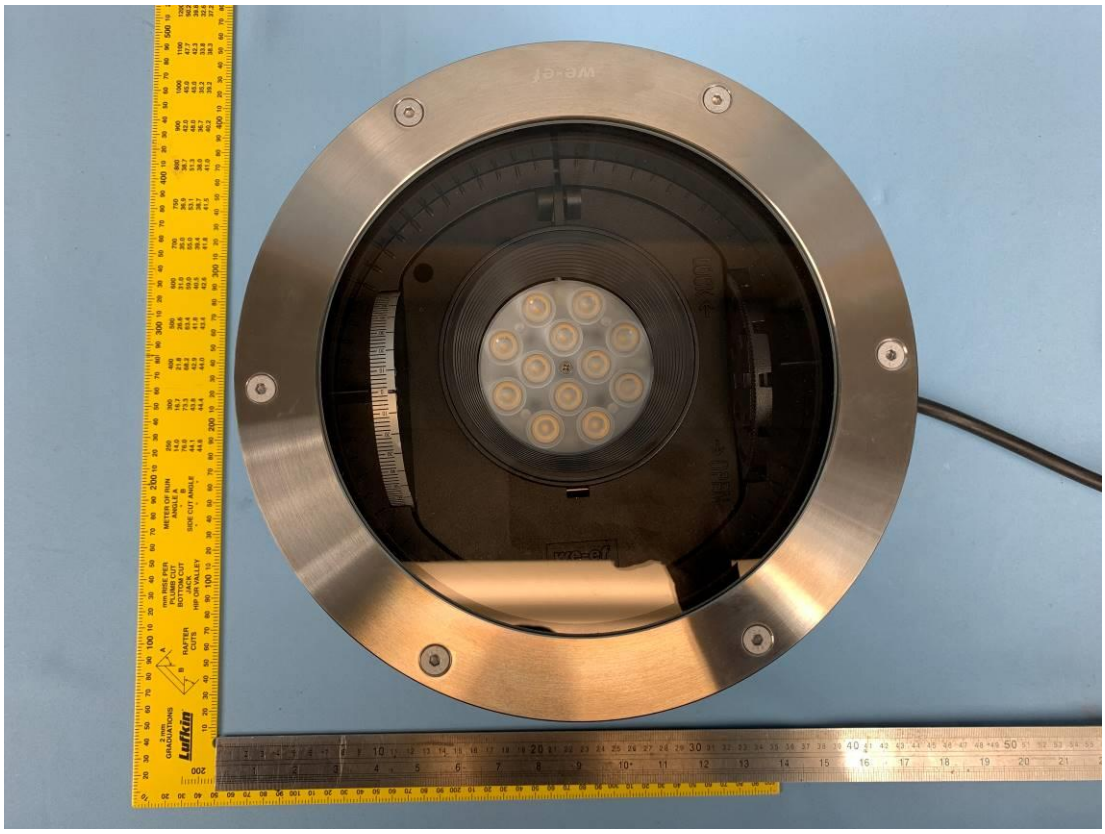
	Test Item	Supplied Voltage (V)	Frequency (Hz)	Measured Power (W)	Measured Current (mA)	Power Factor
7	**ETC340-GB (185-7713)**	220	50	28.923	218.35	0.9779
		230	50	28.890	215.23	0.9715
		240	50	28.878	207.53	0.9643
8	**ETC340-GB (185-7713)**	220	50	28.772	214.55	0.9771
		230	50	28.805	214.87	0.9713
		240	50	28.796	210.24	0.9633
9	**ETC340-GB (185-7713)**	220	50	29.030	216.79	0.9783
		230	50	29.039	216.06	0.9721
		240	50	29.014	214.45	0.9646
10	**ETC340-GB (185-7713)**	220	50	28.982	220.12	0.9791
		230	50	28.933	215.18	0.9726
		240	50	28.808	211.28	0.9649

Markings

Rating Label

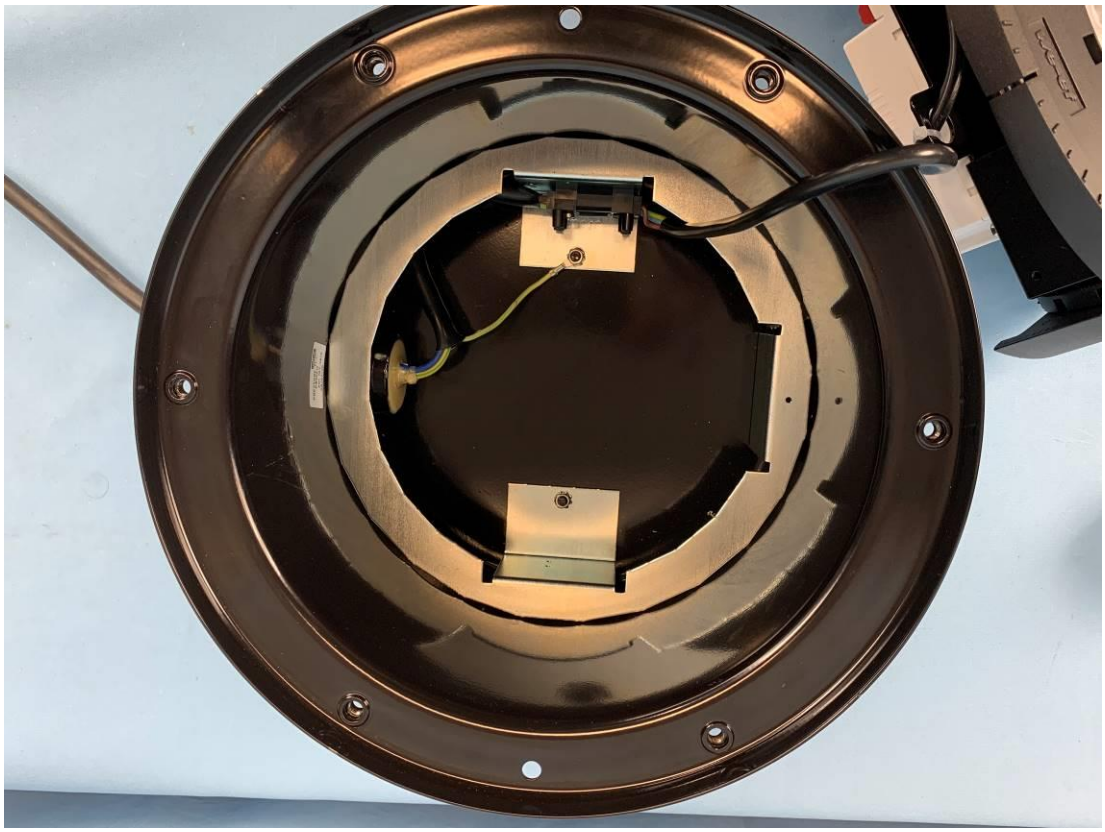
LED control gear marking

Photos

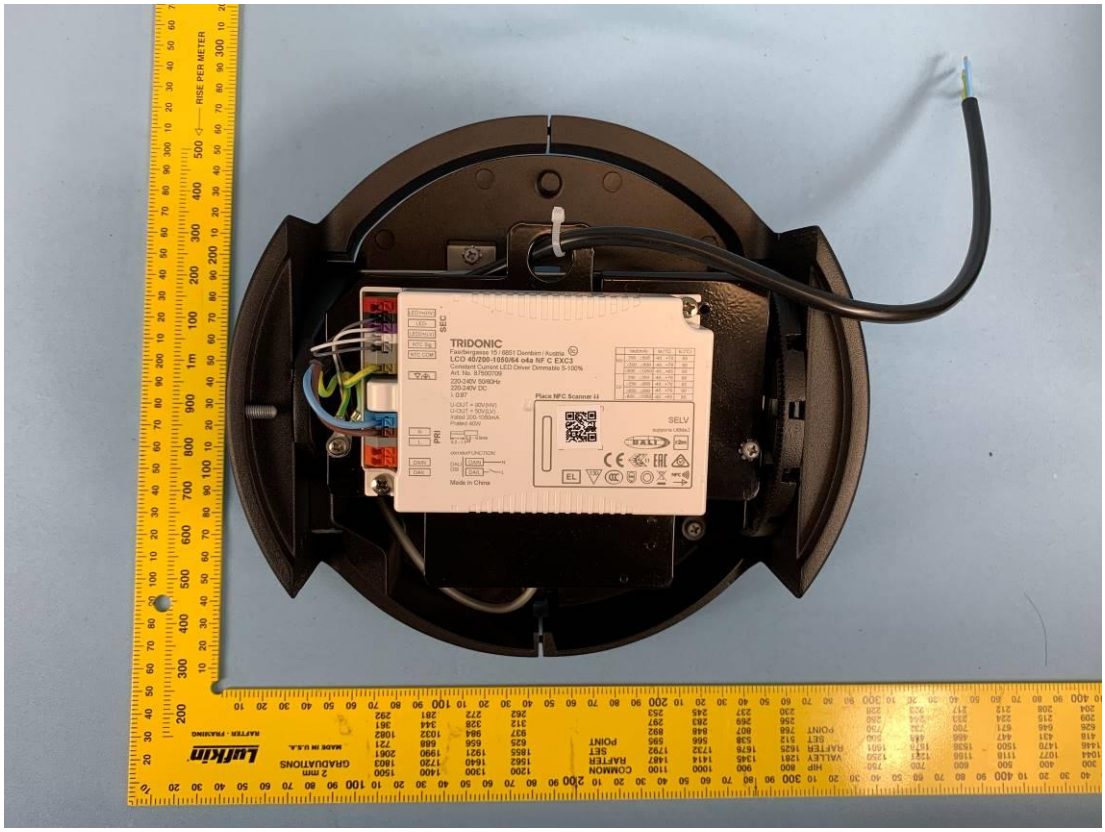


Product overview

LEDs overview



Internal construction



Control gear compartment

End of the Test Report