Test Report No.: *Prüfbericht - Nr.:*	**19301373 002**	**Page 1 of 15** Seite 1 von 15	
Client: *Auftraggeber:*	**GE Lighting Australia Pty. Ltd.** 125-127 Long Street, Smithfield, Sydney, NSW 2164, Australia		
Test item: *Gegenstand der Prüfung:*	**Evolve ™ LED Area Light Scalable Wall Pack ;** **Evolve ™ LED Post Top Contemporary Twin Support Post Top**		
Identification: *Bezeichnung:*	**(Refer page 2 herein)**	**Serial No.:** Serien-Nr.:	**N/A**
Receipt No.: *Wareneingangs-Nr.:*	**1113006999**	**Date of receipt:** Eingangsdatum:	**20/05/2014**
Condition of test item at delivery: *Zustand des Prüfgegenstandes bei Anlieferung:*	**Production sample**		
Testing location: *Prüfort:*	**TÜV Rheinland Australia Pty. Ltd.** 182 Dougharty Road, P.O. Box 5050, Heidelberg West, VIC, Australia		
Test specification: *Prüfgrundlage:*	-		
Test Result: *Prüfergebnis:*	**The item was supplied for results only with no compliance limits**. Das Objekt wurde nur für Ergebnisse geliefert, ohne Konformitätsgrenzen.		
Testing Laboratory/ *Prüflaboratorium:*	**TÜV Rheinland Australia Pty. Ltd.** 182 Dougharty Road, P.O. Box 5050, Heidelberg West, VIC, Australia		

Compiled by/ zusammengestellt: **Reviewed by/***kontrolliert:*

14/07/2014	Billy Chu		15/07/2014	George Syrek	
Datum *Date*	**Name** *Name*	**Unterschrift** *Signature*	**Datum** *Date*	**Name** *Name*	**Unterschrift** *Signature*

Other Aspects/ Sonstiges:

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

- This test report (report no.: 19301373 002) is superseded the previous test report (report no.: 19301373 001), please refer to general remarks for details.

Abkürzungen:				*Abbreviations:*			
P(ass)	=	*entspricht Prüfgrundlage*		*P(ass)*	=	*passed*	
F(ail)	=	*entspricht nicht Prüfgrundlage*		*F(ail)*	=	*failed*	
N/A	=	*nicht anwendbar*		*N/A*	=	*not applicable*	
N/T	=	*nicht getestet*		*N/T*	=	*not tested*	

Test Report

Test item particulars:

Model	Approx. Dimension (mm)	Mass (kg)
EWS10AE540G1NBLCK002 – 43W	330 x 370 x 150	7,7
EWS10CE540G1NBLCK002 – 67W	330 x 370 x 150	7,7
EPTBZD341PL1GRAY003 – 49W	430 mm Ø x 610mm (H)	11,9
EPTBZB341PL1BLCK003 – 86W	430 mm Ø x 610mm (H)	11,9

Model description:

1. EWS10AE5XXG1NXXXX002,

   whereas the 1st & 2nd "X" represented the Color Temperature in 2 digits, and the 3rd to 6th "X" represented the Body Colour in 4 digits.

2. EWS10CE5XXG1NXXXX002,

   whereas the 1st & 2nd "X" represented the Color Temperature in 2 digits, and the 3rd to 6th "X" represented the Body Colour in 4 digits.

3. EPTBZXXYYPLXYXXXXXXX,

   whereas 1st & 2nd "X" represented the Optical Code in 2 digits, 1st & 2nd "Y" represented the Color Temperature in 2 digits, the 3rd "X" represented the PE function in 1 digit, the 3rd "Y" represented the Top Housing Shape in 1 digit, the 4th to 7th "X" represented the Body Colour in 4 digits and the 8th to 10th "X" represented the Options in 3 digits.

4. EPTBZXXYYPLXYXXXXXXX,

   whereas 1st & 2nd "X" represented the Optical Code in 2 digits, 1st & 2nd "Y" represented the Color Temperature in 2 digits, the 3rd "X" represented the PE function in 1 digit, the 3rd "Y" represented the Top Housing Shape in 1 digit, the 4th to 7th "X" represented the Body Colour in 4 digits and the 8th to 10th "X" represented the Options in 3 digits.

General remarks:

1. This report shall not be reproduced, except in full.
2. Details in test data / test plan no. 1113006999.
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. Throughout the report a comma is primarily used as the decimal separator.
8. Models EWS10AE540G1NBLCK002, EWS10CE540G1NBLCK002, EPTBZD341PL1GRAY003 and EPTBZB341PL1BLCK003 are selected as representative models for testing.
9. This test report (report no.: 19301373 002) is superseded the previous test report (report no.: 19301373 001) dated on 05-Jun-2014, with adding the information of test procedure (see page 4) as per client requested.
10. The measurements were conducted in the period from 28-May-2014 to 29-May-2014.

Description of the test item:

Trade name **GE Lighting**, type **EWS10AE540G1NBLCK002**, Rating: 120-277V~; 50/60Hz; 0,4-0,2A; 43W; Class I; IP65; ta=50°C; and

Trade name **GE Lighting**, type **EWS10CE540G1NBLCK002**, Rating: 120-277V~; 50/60Hz; 0,7-0,3A; 67W; Class I; IP65; ta=50°C.

The product consists of Luminaire main body by metal, with built-in LED lamp control gear and LED module. The lighting is for scalable wall pack fitting. And, it is supplied with external connection cord and plug connector for testing.

Trade name **GE Lighting**, type **EPTBZD341PL1GRAY003**, Rating: 120-250V~; 50/60Hz; 0,5-0,2A; 49W; Class I; IP44; ta=50°C; and

Trade name **GE Lighting**, type **EPTBZB341PL1BLCK003**, Rating: 120-250V~; 50/60Hz; 0,9-0,4A; 86W; Class I; IP44; ta=50°C.

The product consists of Luminaire main body by metal, with built-in LED lamp control gear and LED module. The lighting is for contemporary twin support post top fitting. And, it is supplied with external connection cord and plug connector for testing.

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: WT-210	MEL-1400	Voltage: 100V-240V	±0,4	27-Jun-2014
		Current: 0,5A	±0,5	
		Power: 100W	±0,5	
		Power Factor: 0,8 - 1	±0,8	

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 draft free room and at the laboratory condition (Ambient 20±5^{o}C, Relative Humidity 45–75%) for 24 hours before and during the measurement.

The test samples were connected to the clean 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.

	TABLE: Power Measurement				-
Test item: EWS10AE540G1NBLCK002 – 43W					
Test Samples	Supplied Voltage (V)	Supplied Frequency (Hz)	Measured Power (W)	Measured Current (A)	Power Factor (PF)
Sample 1 of 10	120	60	43,02	0,3599	0,9934
	220	50	42,71	0,2041	0,9511
	230	50	42,72	0,1984	0,9360
	240	50	42,77	0,1959	0,9089
Sample 2 of 10	120	60	43,22	0,3620	0,9940
	220	50	42,84	0,2044	0,9527
	230	50	42,86	0,1988	0,9368
	240	50	42,88	0,1969	0,9065
Sample 3 of 10	120	60	42,69	0,3572	0,9927
	220	50	42,39	0,2026	0,9490
	230	50	42,42	0,1975	0,9332
	240	50	42,45	0,1955	0,9037
Sample 4 of 10	120	60	42,65	0,3569	0,9926
	220	50	42,30	0,2026	0,9490
	230	50	42,32	0,1969	0,9340
	240	50	42,36	0,1956	0,9012
Sample 5 of 10	120	60	42,42	0,3544	0,9926
	220	50	42,16	0,2016	0,9493
	230	50	42,17	0,1963	0,9339
	240	50	42,22	0,1942	0,9055
Sample 6 of 10	120	60	43,16	0,3611	0,9934
	220	50	42,85	0,2048	0,9508
	230	50	42,87	0,1992	0,9355
	240	50	42,89	0,1983	0,9003
Sample 7 of 10	120	60	43,10	0,3608	0,9934
	220	50	42,79	0,2043	0,9516
	230	50	42,81	0,1987	0,9363
	240	50	42,85	0,1965	0,9080
Sample 8 of 10	120	60	43,03	0,3604	0,9938
	220	50	42,49	0,2031	0,9506
	230	50	42,51	0,1977	0,9347
	240	50	42,55	0,1963	0,9019
Sample 9 of 10	120	60	42,61	0,3563	0,9929
	220	50	42,31	0,2024	0,9487
	230	50	42,34	0,1971	0,9336
	240	50	42,40	0,1941	0,9095
Sample 10 of 10	120	60	42,88	0,3582	0,9934
	220	50	42,53	0,2031	0,9511
	230	50	42,56	0,1977	0,9355
	240	50	42,59	0,1959	0,9057

	TABLE: Power Measurement				-
Test item: EWS10CE540G1NBLCK002 – 67W					
Test Samples	Supplied Voltage (V)	Supplied Frequency (Hz)	Measured Power (W)	Measured Current (A)	Power Factor (PF)
Sample 1 of 10	120	60	68,91	0,5757	0,9970
	220	50	68,02	0,3160	0,9771
	230	50	68,03	0,3045	0,9690
	240	50	68,06	0,2958	0,9585
Sample 2 of 10	120	60	68,49	0,5722	0,9974
	220	50	67,49	0,3132	0,9776
	230	50	67,47	0,3019	0,9694
	240	50	67,45	0,2929	0,9585
Sample 3 of 10	120	60	67,74	0,5660	0,9970
	220	50	66,94	0,3114	0,9767
	230	50	66,95	0,2997	0,9683
	240	50	66,96	0,2914	0,9572
Sample 4 of 10	120	60	69,65	0,5819	0,9972
	220	50	68,58	0,3187	0,9776
	230	50	68,56	0,3072	0,9703
	240	50	68,55	0,2974	0,9583
Sample 5 of 10	120	60	68,66	0,5734	0,9972
	220	50	67,64	0,3141	0,9767
	230	50	67,62	0,3029	0,9687
	240	50	67,60	0,2951	0,9530
Sample 6 of 10	120	60	67,65	0,5647	0,9973
	220	50	66,85	0,3106	0,9767
	230	50	66,86	0,2995	0,9685
	240	50	66,87	0,2910	0,9574
Sample 7 of 10	120	60	68,78	0,5736	0,9976
	220	50	67,70	0,3149	0,9771
	230	50	67,67	0,3031	0,9685
	240	50	67,66	0,2944	0,9563
Sample 8 of 10	120	60	67,03	0,5589	0,9967
	220	50	66,27	0,3084	0,9762
	230	50	66,27	0,2972	0,9679
	240	50	66,28	0,2891	0,9539
Sample 9 of 10	120	60	67,78	0,5651	0,9973
	220	50	66,99	0,3114	0,9766
	230	50	67,00	0,3002	0,9685
	240	50	67,01	0,2916	0,9572
Sample 10 of 10	120	60	69,60	0,5810	0,9973
	220	50	68,57	0,3187	0,9778
	230	50	68,57	0,3070	0,9694
	240	50	68,58	0,2984	0,9560

	TABLE: Power Measurement				-
Test item: EPTBZD341PL1GRAY003 – 49W					
Test Samples	Supplied Voltage (V)	Supplied Frequency (Hz)	Measured Power (W)	Measured Current (A)	Power Factor (PF)
Sample 1 of 10	120	60	47,38	0,3959	0,9942
	220	50	47,35	0,2240	0,9605
	230	50	47,40	0,2168	0,9482
	240	50	47,37	0,2185	0,9020
Sample 2 of 10	120	60	47,39	0,3959	0,9947
	220	50	47,26	0,2235	0,9609
	230	50	47,32	0,2162	0,9485
	240	50	47,31	0,2163	0,9108
Sample 3 of 10	120	60	47,90	0,4008	0,9940
	220	50	47,87	0,2262	0,9606
	230	50	47,93	0,2194	0,9493
	240	50	47,89	0,2208	0,9008
Sample 4 of 10	120	60	46,97	0,3930	0,9938
	220	50	46,89	0,2216	0,9581
	230	50	46,94	0,2153	0,9473
	240	50	46,93	0,2163	0,9013
Sample 5 of 10	120	60	47,38	0,3961	0,9942
	220	50	47,28	0,2236	0,9605
	230	50	47,33	0,2166	0,9486
	240	50	47,30	0,2170	0,9075
Sample 6 of 10	120	60	47,12	0,3938	0,9940
	220	50	47,03	0,2224	0,9604
	230	50	47,07	0,2156	0,9490
	240	50	47,14	0,2169	0,9034
Sample 7 of 10	120	60	47,17	0,3947	0,9940
	220	50	47,03	0,2228	0,9582
	230	50	47,09	0,2162	0,9465
	240	50	47,07	0,2173	0,9025
Sample 8 of 10	120	60	48,04	0,4011	0,9942
	220	50	47,87	0,2264	0,9608
	230	50	47,92	0,2192	0,9491
	240	50	47,92	0,2201	0,9061
Sample 9 of 10	120	60	46,96	0,3920	0,9944
	220	50	46,97	0,2224	0,9592
	230	50	47,02	0,2159	0,9465
	240	50	47,02	0,2162	0,9060
Sample 10 of 10	120	60	47,90	0,4001	0,9944
	220	50	47,89	0,2264	0,9614
	230	50	47,94	0,2190	0,9494
	240	50	47,93	0,2196	0,9083

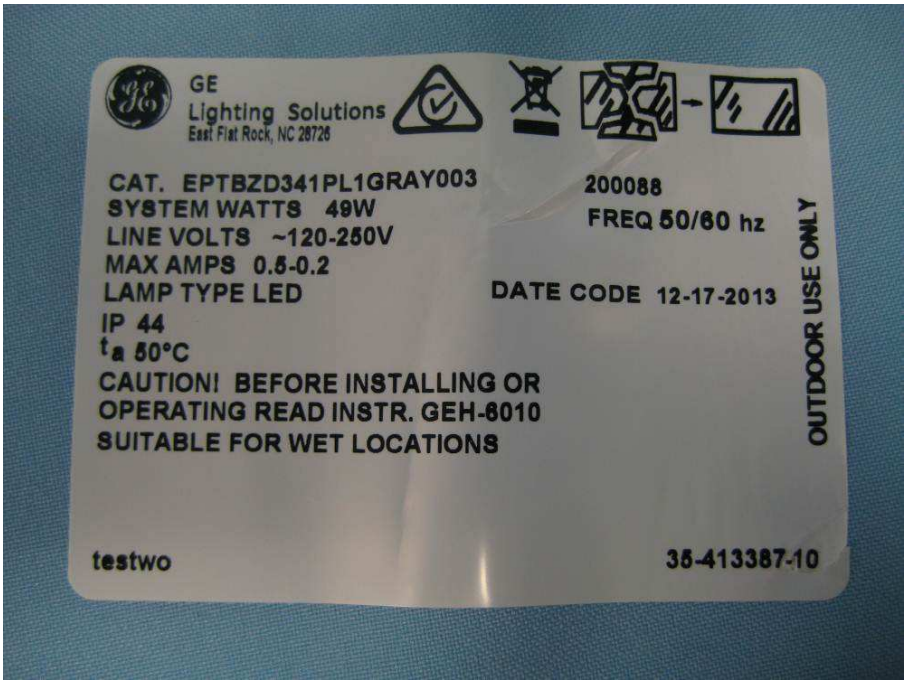
	TABLE: Power Measurement				-
Test item: EPTBZB341PL1BLCK003 – 86W					
Test Samples	Supplied Voltage (V)	Supplied Frequency (Hz)	Measured Power (W)	Measured Current (A)	Power Factor (PF)
Sample 1 of 10	120	60	85,23	0,7114	0,9979
	220	50	84,06	0,3875	0,9850
	230	50	84,05	0,3720	0,9806
	240	50	84,03	0,3635	0,9625
Sample 2 of 10	120	60	84,50	0,7048	0,9980
	220	50	83,35	0,3845	0,9852
	230	50	83,34	0,3690	0,9805
	240	50	83,33	0,3596	0,9630
Sample 3 of 10	120	60	84,21	0,7032	0,9980
	220	50	83,00	0,3827	0,9846
	230	50	82,99	0,3673	0,9801
	240	50	82,96	0,3581	0,9632
Sample 4 of 10	120	60	81,81	0,6833	0,9974
	220	50	80,72	0,3722	0,9836
	230	50	80,73	0,3577	0,9787
	240	50	80,72	0,3489	0,9623
Sample 5 of 10	120	60	85,72	0,7157	0,9977
	220	50	84,53	0,3896	0,9844
	230	50	84,52	0,3743	0,9802
	240	50	84,52	0,3650	0,9629
Sample 6 of 10	120	60	84,46	0,7035	0,9978
	220	50	83,24	0,3844	0,9841
	230	50	83,23	0,3687	0,9794
	240	50	83,19	0,3596	0,9629
Sample 7 of 10	120	60	85,03	0,7067	0,9977
	220	50	83,83	0,3863	0,9849
	230	50	83,82	0,3712	0,9803
	240	50	83,79	0,3616	0,9632
Sample 8 of 10	120	60	84,05	0,6986	0,9976
	220	50	82,83	0,3816	0,9840
	230	50	82,83	0,3667	0,9795
	240	50	82,77	0,3581	0,9602
Sample 9 of 10	120	60	85,06	0,7058	0,9978
	220	50	83,79	0,3855	0,9844
	230	50	83,78	0,3707	0,9801
	240	50	83,76	0,3610	0,9644
Sample 10 of 10	120	60	85,70	0,7118	0,9979
	220	50	84,51	0,3894	0,9851
	230	50	84,50	0,3736	0,9805
	240	50	84,47	0,3645	0,9622

	TABLE: Power Measurement		-
Test item	Supplied Voltage (V)	Average Power (W)	Average Power Factor (PF)
EWS10AE540G1NBLCK002 – 43W	120	42,88	0,9932
	220	42,54	0,9504
	230	42,56	0,9350
	240	42,60	0,9051
EWS10CE540G1NBLCK002 – 67W	120	68,43	0,9972
	220	67,51	0,9770
	230	67,50	0,9689
	240	67,50	0,9566
EPTBZD341PL1GRAY003 – 49W	120	47,42	0,9942
	220	47,34	0,9601
	230	47,40	0,9482
	240	47,39	0,9049
EPTBZB341PL1BLCK003 – 86W	120	84,58	0,9978
	220	83,39	0,9845
	230	83,38	0,9780
	240	83,35	0,9627

Marking

EWS10AE540G1NBLCK002 – 43W

EWS10CE540G1NBLCK002 – 67W



EPTBZD341PL1GRAY003 – 49W

EPTBZB341PL1BLCK003 – 86W (EPTC)

Photo

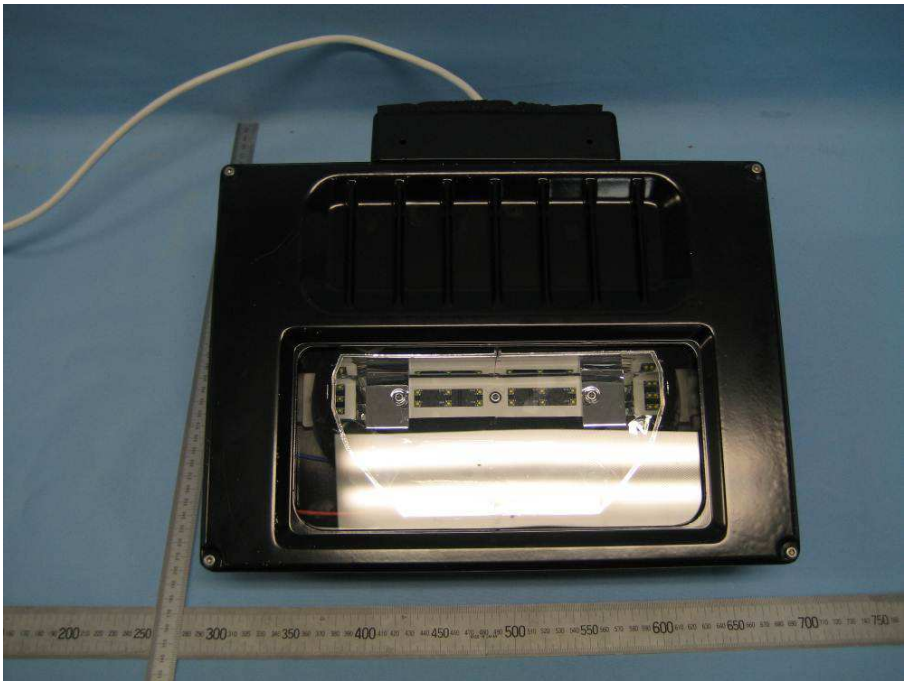


Photo 1) EWS10AE540G1NBLCK002 – 43W

Photo 2) EWS10AE540G1NBLCK002 – 43W

Photo 3) EWS10CE540G1NBLCK002 – 67W

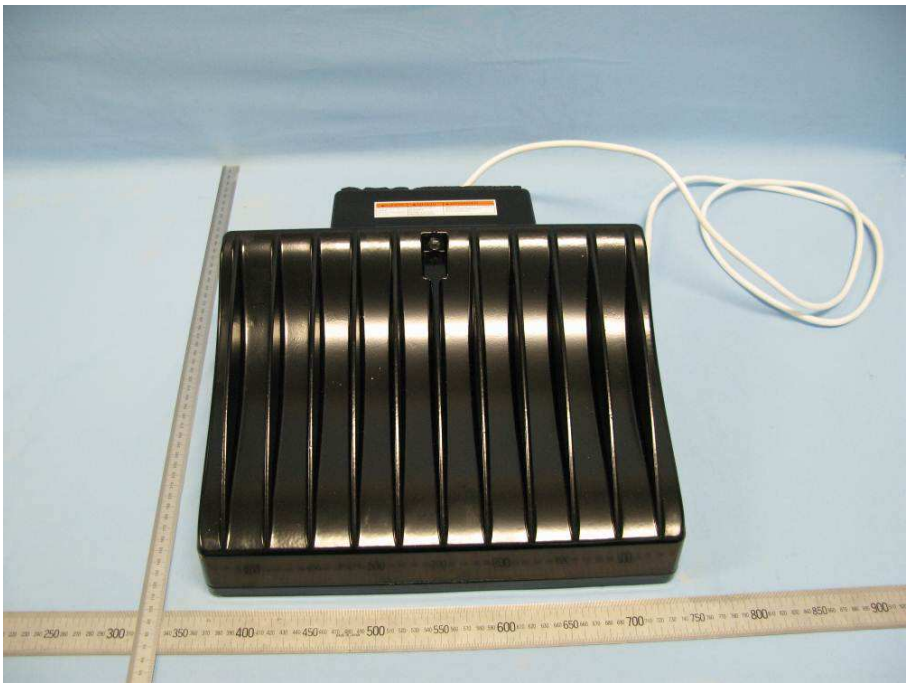


Photo 4) EWS10CE540G1NBLCK002 – 67W

Photo 5) EPTBZD341PL1GRAY003 – 49W

Photo 6) EPTBZD341PL1GRAY003 – 49W

Photo 7) EPTBZB341PL1BLCK003 – 86W

Photo 8) EPTBZB341PL1BLCK003 – 86W

End of the Test Report