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Test Report

Report No. : T2015-07798

Company : LG Electronics Inc.
Representative : Bon-Joon Koo
Address : 1, Gwank-ro, Gwanak-gu, Seoul, 151-919, Rep. of Korea

1. Product Name : LED Streetlight
   - Type and Model : 210/220/230/240/250 V~, 50 Hz, 13.6 W [model : SA4vv0wwxyz]
2. Use of Report : Elexon Charge Codes for inclusion in BSCP520
3. Date of Receipt : 2015. 08. 11.
4. Date of Test : 2015. 08. 12. - 2015. 08. 21.
5. Testing Method : standards presented by the Client
6. Test Results : attached

Tested by : Lee, Yong Sun 이용선 (서명) **Approved by :** Kyung, Jong Won 경종원 (서명)

1. This report is based on the test and analysis performed with the sample(s) submitted by the client. Therefore, the report does not quarantee the quality of entire products.
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3. The copy of this report is invalid for use.

2015. 08. 26.

President Choi Kapjung

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www.ktc.re.kr / 435-862 22, Heungan-daero 27beon-gil, Gunpo-si, Gyeonggi-do
TEL : +82-31-455-7654, FAX : +82-31-455-7307

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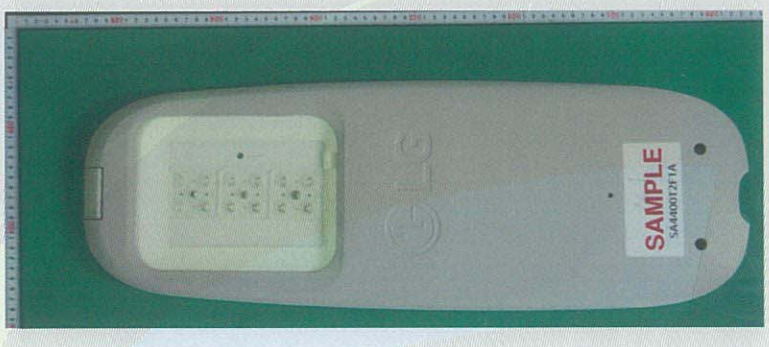
Test Items	Test Requirement	unit	test result
active power	active Power of the LED lamp when input voltage and the dimming signal are applied as Attachment 1	W	attachment 1
reactive power	reactive Power of the LED lamp when input voltage and the dimming signal are applied as Attachment 2	VA	attachment 2

Remark : 1. Value of test result is by KS Q 5002 : 2014 (Statistical technique of the data)

2. Environment : Temperature : (25 ± 5) ℃ , Humidity : (65 ± 20) % R.H.
3. Test condition : Units were powered up for 1 hours to stabilize and measurements were taken after 3 minutes at each dimming level.
4. Test equipment
   - Power Source : Pacific (model. 125AMX/Upc12), NO. 1125
   - Power Analyser : Voltech (model. PM3300), NO. 1191
   - Timer : Casio (model. HS-5), NO. 786
   - DC power supply : Agilent (model. E3634A), NO. 2526
5. Measurement uncertainty
   - 95 % confidence measurement uncertainty for Power Analyser is 200 V to 0.02 %
6. Test Sample : Street Lighting (13.6W version)
   - sample 1 : SA4vv0wwxyz (Lighting), LGP-020S-VR (Converter)
   - sample 2 : SA4vv0wwxyz (Lighting), LGP-020S-VR (Converter)
   - sample 3 : SA4vv0wwxyz (Lighting), LGP-020S-VR (Converter)
   - sample 4 : SA4vv0wwxyz (Lighting), LGP-020S-VR (Converter)
   - sample 5 : SA4vv0wwxyz (Lighting), LGP-020S-VR (Converter)



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attachment 1 active power (Watt)

input voltage (Vac)	dimming signal (Vdc)	Test result				
		sample 1	sample 2	sample 3	sample 4	sample 5
210	10	13.38	13.44	13.33	13.27	13.39
220		13.44	13.51	13.43	13.33	13.44
230		13.50	13.57	13.49	13.40	13.49
240		13.58	13.64	13.57	13.47	13.56
250		13.66	13.70	13.64	13.53	13.65

input voltage (Vac)	dimming signal (Vdc)	Test result				
		sample 1	sample 2	sample 3	sample 4	sample 5
210V	9	13.38	13.41	13.33	13.27	13.37
220V		13.44	13.48	13.39	13.33	13.44
230V		13.53	13.55	13.45	13.39	13.51
240V		13.58	13.60	13.55	13.46	13.57
250V		13.64	13.66	13.61	13.53	13.62

input voltage (Vac)	dimming signal (Vdc)	Test result				
		sample 1	sample 2	sample 3	sample 4	sample 5
210V	8	12.16	12.10	12.11	12.04	12.24
220V		12.24	12.18	12.17	12.10	12.30
230V		12.28	12.23	12.24	12.15	12.37
240V		12.36	12.30	12.30	12.22	12.45
250V		12.42	12.38	12.38	12.32	12.53

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attachment 1 active power (Watt)

input voltage (Vac)	dimming signal (Vdc)	Test result				
		sample 1	sample 2	sample 3	sample 4	sample 5
210	7	10.92	10.89	10.86	10.77	10.94
220		10.96	10.97	10.92	10.83	11.00
230		11.04	11.02	10.99	10.92	11.07
240		11.12	11.09	11.06	10.97	11.14
250		11.20	11.16	11.13	11.06	11.22

input voltage (Vac)	dimming signal (Vdc)	Test result				
		sample 1	sample 2	sample 3	sample 4	sample 5
210V	6	9.70	9.65	9.62	9.54	9.70
220V		9.74	9.72	9.69	9.61	9.76
230V		9.82	9.80	9.78	9.71	9.84
240V		9.91	9.87	9.85	9.79	9.92
250V		10.00	9.97	9.92	9.88	10.00

input voltage (Vac)	dimming signal (Vdc)	Test result				
		sample 1	sample 2	sample 3	sample 4	sample 5
210V	5	8.52	8.44	8.44	8.35	8.49
220V		8.59	8.52	8.52	8.39	8.57
230V		8.68	8.61	8.60	8.50	8.65
240V		8.76	8.70	8.69	8.57	8.74
250V		8.86	8.78	8.78	8.67	8.84

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attachment 1 active power (Watt)

input voltage (Vac)	dimming signal (Vdc)	Test result				
		sample 1	sample 2	sample 3	sample 4	sample 5
210	4	7.34	7.26	7.28	7.20	7.32
220		7.44	7.36	7.36	7.28	7.41
230		7.52	7.45	7.45	7.37	7.50
240		7.62	7.54	7.56	7.46	7.59
250		7.72	7.65	7.65	7.58	7.70

input voltage (Vac)	dimming signal (Vdc)	Test result				
		sample 1	sample 2	sample 3	sample 4	sample 5
210V	3	6.18	6.17	6.14	6.06	6.20
220V		6.29	6.25	6.24	6.15	6.30
230V		6.39	6.36	6.34	6.27	6.40
240V		6.49	6.46	6.45	6.38	6.50
250V		6.59	6.57	6.55	6.49	6.62

input voltage (Vac)	dimming signal (Vdc)	Test result				
		sample 1	sample 2	sample 3	sample 4	sample 5
210V	2	5.09	5.07	5.03	5.00	5.11
220V		5.21	5.19	5.12	5.10	5.22
230V		5.31	5.30	5.25	5.22	5.33
240V		5.43	5.42	5.39	5.34	5.46
250V		5.57	5.56	5.51	5.47	5.59

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attachment 1 active power (Watt)

input voltage (Vac)	dimming signal (Vdc)	Test result				
		sample 1	sample 2	sample 3	sample 4	sample 5
210	1	4.10	4.06	4.06	4.01	4.11
220		4.22	4.20	4.20	4.13	4.25
230		4.37	4.34	4.32	4.26	4.38
240		4.52	4.48	4.52	4.43	4.52
250		4.67	4.63	4.68	4.61	4.67

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attachment 2 reactive power (VA)

input voltage (Vac)	dimming signal (Vdc)	Test result				
		sample 1	sample 2	sample 3	sample 4	sample 5
210	10	14.45	14.48	14.36	14.31	14.41
220		14.63	14.70	14.62	14.54	14.62
230		14.87	14.93	14.85	14.78	14.85
240		15.15	15.22	15.13	15.06	15.12
250		15.45	15.49	15.42	15.35	15.43

input voltage (Vac)	dimming signal (Vdc)	Test result				
		sample 1	sample 2	sample 3	sample 4	sample 5
210V	9	14.41	14.45	14.36	14.31	14.39
220V		14.64	14.67	14.58	14.53	14.62
230V		14.90	14.93	14.82	14.78	14.87
240V		15.14	15.17	15.12	15.05	15.13
250V		15.43	15.44	15.40	15.35	15.40

input voltage (Vac)	dimming signal (Vdc)	Test result				
		sample 1	sample 2	sample 3	sample 4	sample 5
210	8	13.26	13.19	13.19	13.14	13.20
220		13.49	13.44	13.42	13.37	13.42
230		13.74	13.68	13.69	13.63	13.67
240		14.03	13.96	13.96	13.91	13.94
250		14.33	14.27	14.28	14.25	14.24

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attachment 2 reactive power (VA)

input voltage (Vac)	dimming signal (Vdc)	Test result				
		sample 1	sample 2	sample 3	sample 4	sample 5
210	7	12.08	12.05	12.02	11.95	11.96
220		12.31	12.31	12.27	12.19	12.20
230		12.60	12.57	12.55	12.50	12.46
240		12.89	12.86	12.83	12.78	12.75
250		13.23	13.19	13.17	13.12	13.06

input voltage (Vac)	dimming signal (Vdc)	Test result				
		sample 1	sample 2	sample 3	sample 4	sample 5
210V	6	10.95	10.90	10.87	10.80	10.80
220V		11.20	11.17	11.14	11.08	11.06
230V		11.50	11.47	11.44	11.41	11.34
240V		11.82	11.79	11.77	11.73	11.65
250V		12.18	12.15	12.11	12.09	11.99

input voltage (Vac)	dimming signal (Vdc)	Test result				
		sample 1	sample 2	sample 3	sample 4	sample 5
210	5	9.88	9.80	9.81	9.73	9.70
220		10.16	10.09	10.11	10.01	9.98
230		10.51	10.42	10.42	10.36	10.29
240		10.84	10.78	10.78	10.69	10.62
250		11.22	11.15	11.15	11.09	10.99

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attachment 2 reactive power (VA)

input voltage (Vac)	dimming signal (Vdc)	Test result				
		sample 1	sample 2	sample 3	sample 4	sample 5
210	4	8.84	8.76	8.79	8.73	8.66
220		9.17	9.09	9.11	9.05	8.97
230		9.52	9.44	9.45	9.40	9.30
240		9.90	9.82	9.84	9.79	9.66
250		10.30	10.21	10.23	10.19	10.05

input voltage (Vac)	dimming signal (Vdc)	Test result				
		sample 1	sample 2	sample 3	sample 4	sample 5
210V	3	7.87	7.85	7.84	7.77	7.70
220V		8.22	8.18	8.18	8.11	8.03
230V		8.59	8.55	8.57	8.51	8.40
240V		9.02	8.96	8.98	8.94	8.79
250V		9.43	9.40	9.40	9.38	9.21

input voltage (Vac)	dimming signal (Vdc)	Test result				
		sample 1	sample 2	sample 3	sample 4	sample 5
210	2	7.01	6.97	6.96	6.94	6.81
220		7.39	7.36	7.33	7.34	7.18
230		7.82	7.79	7.77	7.76	7.60
240		8.26	8.23	8.22	8.22	8.02
250		8.75	8.70	8.71	8.68	8.50

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attachment 2 reactive power (VA)

input voltage (Vac)	dimming signal (Vdc)	Test result				
		sample 1	sample 2	sample 3	sample 4	sample 5
210	1	6.32	6.28	6.30	6.26	6.10
220		6.77	6.76	6.76	6.73	6.57
230		7.26	7.24	7.24	7.22	7.03
240		7.78	7.74	7.74	7.75	7.51
250		8.30	8.28	8.26	8.23	8.02