

Test Report

Report No. : T2015-06993

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

1. Product Name : LED Street Lighting
- Type and Model : 210/220/230/240/250 V~, 50 Hz, 47 W [model : S50w0wwxyz]
2. Use of Report : Elexon Charge Codes for inclusion in BSCP520
3. Date of Receipt : 2015. 07. 16.
4. Date of Test : 2015. 07. 17. - 2015. 08. 11.
5. Testing Method : Standards presented by the Client
6. Test Results : Attached

Tested by : Lee, Yong Sun

이 (명) 용선

Approved by : Kyung, Jong Won

경 (명) 종원

1. This report is based on the test and analysis performed with the sample(s) submitted by the client.
Therefore, the report does not guarantee the quality of entire products.
2. This report should not be used for advertising, lawsuit, etc. without any official permission of KTC.
It is only used for the purpose of the quality test.
3. The copy of this report is invalid for use.

2015. 08. 13.



President

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Test Result

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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) °C , 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

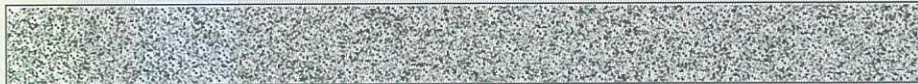
- Power Source : Pacific (model. 125AMX/Upc12), NO. 1125
- Power Analyser : Voltech (model. PM3300), NO. 1191
- Timer : Casio (model. HS-5), NO. 786
- DC power supply : Agilent (model. E3634A), NO. 2526

5. Measurement uncertainty

- 95 % confidence measurement uncertainty for Power Analyser is 200 V to 0.02 %

6. Test Sample : Street Lighting(47 W version)

- sample 1 : S50vv0wwxyz(Lighting), LGP-060S-VR(Converter)]
- sample 2 : S50vv0wwxyz(Lighting), LGP-060S-VR(Converter)]
- sample 3 : S50vv0wwxyz(Lighting), LGP-060S-VR(Converter)]
- sample 4 : S50vv0wwxyz(Lighting), LGP-060S-VR(Converter)]
- sample 5 : S50vv0wwxyz(Lighting), LGP-060S-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	46.44	47.22	45.04	46.46	46.46
220		46.47	47.06	45.07	46.52	46.51
230		46.52	47.03	45.15	46.51	46.58
240		46.56	47.04	45.17	46.50	46.64
250		46.61	47.04	45.22	46.54	46.70

input voltage (Vac)	dimming signal (Vdc)	Test result				
		sample 1	sample 2	sample 3	sample 4	sample 5
210V	9	45.92	46.58	44.57	46.13	46.02
220V		45.91	46.65	44.60	46.21	46.01
230V		45.98	46.71	44.59	46.26	46.06
240V		45.98	46.78	44.56	46.27	46.09
250V		46.02	46.88	44.54	46.30	46.13

input voltage (Vac)	dimming signal (Vdc)	Test result				
		sample 1	sample 2	sample 3	sample 4	sample 5
210V	8	41.77	42.42	40.90	41.98	41.98
220V		41.85	42.41	40.91	41.99	42.08
230V		41.84	42.46	40.92	42.03	42.15
240V		41.86	42.52	40.93	42.03	42.23
250V		41.81	42.57	41.10	42.03	42.36



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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	37.94	38.38	37.17	38.08	37.98
220		37.97	38.44	37.19	38.10	38.07
230		37.99	38.49	37.21	38.15	38.08
240		37.97	38.52	37.31	38.09	38.10
250		38.01	38.51	37.36	38.16	38.05

input voltage (Vac)	dimming signal (Vdc)	Test result				
		sample 1	sample 2	sample 3	sample 4	sample 5
210V	6	34.08	34.49	33.32	33.83	34.09
220V		33.96	34.51	33.40	33.94	34.12
230V		34.03	34.64	33.54	34.09	34.28
240V		34.15	34.78	33.56	34.18	34.45
250V		34.21	34.86	33.68	34.26	34.62

input voltage (Vac)	dimming signal (Vdc)	Test result				
		sample 1	sample 2	sample 3	sample 4	sample 5
210V	5	30.29	30.62	29.80	30.52	30.75
220V		30.46	30.72	29.79	30.60	30.87
230V		30.52	30.78	29.76	30.67	30.95
240V		30.61	30.90	29.79	30.77	31.05
250V		30.76	31.01	29.79	30.91	31.13



Test Result

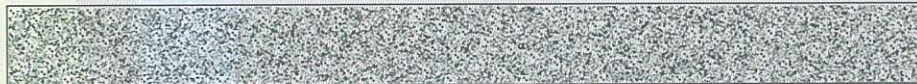
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attachment 1 active power (Watt)

input voltage (Vac)	dimming signal (Vdc)	Test result				
		sample 1	sample 2	sample 3	sample 4	sample 5
210	4	26.69	26.82	25.89	26.48	26.71
220		26.69	26.92	26.00	26.53	26.83
230		26.77	26.97	25.99	26.55	26.95
240		26.79	26.97	25.97	26.54	26.98
250		26.79	26.96	25.81	26.57	27.12

input voltage (Vac)	dimming signal (Vdc)	Test result				
		sample 1	sample 2	sample 3	sample 4	sample 5
210V	3	22.84	23.00	22.08	22.58	22.99
220V		22.88	23.07	21.95	22.63	23.05
230V		22.86	23.06	21.94	22.55	23.08
240V		22.63	22.88	21.97	22.20	22.93
250V		22.46	22.73	21.89	22.09	22.76

input voltage (Vac)	dimming signal (Vdc)	Test result				
		sample 1	sample 2	sample 3	sample 4	sample 5
210V	2	18.79	18.70	18.24	18.55	18.72
220V		18.77	18.80	18.26	18.53	18.73
230V		18.60	18.70	18.32	18.43	18.74
240V		18.53	18.62	18.48	18.37	18.75
250V		18.55	18.60	18.70	18.49	18.88



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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	15.03	15.06	15.24	15.08	15.26
220		15.15	15.16	15.34	15.22	15.42
230		15.33	15.35	15.49	15.45	15.52
240		15.41	15.56	15.24	15.64	15.65
250		15.43	15.68	15.15	15.67	15.73



Test Result

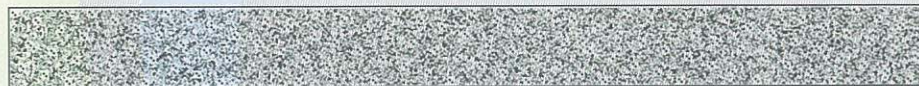
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attachment 2 reactive power (VA)

input voltage (Vac)	dimming signal (Vdc)	Test result				
		sample 1	sample 2	sample 3	sample 4	sample 5
210	10	48.26	49.13	46.94	48.39	48.31
220		48.60	49.32	47.31	48.76	48.69
230		48.99	49.66	47.75	49.12	49.11
240		49.43	50.07	48.18	49.52	49.57
250		49.89	50.56	48.71	50.04	50.07

input voltage (Vac)	dimming signal (Vdc)	Test result				
		sample 1	sample 2	sample 3	sample 4	sample 5
210V	9	47.77	48.48	46.49	48.02	47.89
220V		48.07	48.88	46.85	48.43	48.19
230V		48.48	49.32	47.21	48.86	48.60
240V		48.86	49.79	47.59	49.28	49.03
250V		49.34	50.37	48.08	49.80	49.52

input voltage (Vac)	dimming signal (Vdc)	Test result				
		sample 1	sample 2	sample 3	sample 4	sample 5
210	8	43.68	44.38	42.89	43.94	43.92
220		44.10	44.71	43.26	44.29	44.35
230		44.43	45.13	43.67	44.71	44.78
240		44.88	45.62	44.19	45.17	45.29
250		45.39	46.21	44.93	45.74	45.92



Test Result

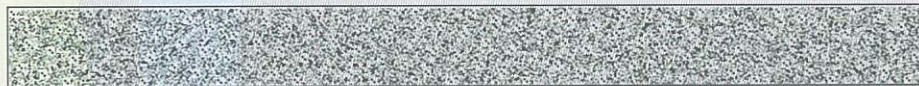
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attachment 2 reactive power (VA)

input voltage (Vac)	dimming signal (Vdc)	Test result				
		sample 1	sample 2	sample 3	sample 4	sample 5
210	7	39.93	40.37	39.28	40.08	40.00
220		40.30	40.78	39.67	40.47	40.44
230		40.75	41.27	40.15	40.97	40.86
240		41.28	41.84	40.77	41.50	41.40
250		41.94	42.45	41.44	42.15	41.97

input voltage (Vac)	dimming signal (Vdc)	Test result				
		sample 1	sample 2	sample 3	sample 4	sample 5
210V	6	36.17	36.59	35.51	35.98	36.21
220V		36.51	37.02	36.05	36.51	36.66
230V		37.08	37.63	36.69	37.14	37.32
240V		37.75	38.28	37.29	37.73	38.02
250V		38.39	38.92	37.97	38.39	38.76

input voltage (Vac)	dimming signal (Vdc)	Test result				
		sample 1	sample 2	sample 3	sample 4	sample 5
210	5	32.58	32.85	32.21	32.79	33.02
220		33.20	33.39	32.67	33.32	33.60
230		33.75	33.93	33.16	33.87	34.17
240		34.36	34.54	33.73	34.47	34.80
250		35.03	35.17	34.37	35.14	35.47



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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	29.17	29.25	28.54	28.95	29.22
220		29.63	29.76	29.12	29.44	29.77
230		30.18	30.26	29.66	29.94	30.41
240		30.78	30.83	30.33	30.52	31.03
250		31.46	31.49	31.00	31.23	31.74

input voltage (Vac)	dimming signal (Vdc)	Test result				
		sample 1	sample 2	sample 3	sample 4	sample 5
210V	3	25.56	25.62	25.13	25.28	25.75
220V		26.12	26.16	25.61	25.83	26.29
230V		26.70	26.74	26.22	26.37	26.85
240V		27.20	27.23	27.01	26.83	27.46
250V		28.03	27.91	27.72	27.64	28.13

input voltage (Vac)	dimming signal (Vdc)	Test result				
		sample 1	sample 2	sample 3	sample 4	sample 5
210	2	22.00	21.79	21.69	21.73	21.95
220		22.60	22.41	22.35	22.31	22.74
230		23.23	23.04	23.05	22.94	23.23
240		23.87	23.70	23.82	23.57	23.97
250		24.62	24.39	24.72	24.33	24.90



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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	18.80	18.62	18.96	18.68	18.86
220		19.48	19.28	19.61	19.37	19.61
230		20.28	20.04	20.37	20.17	20.45
240		21.15	20.88	21.19	21.03	21.28
250		21.89	21.83	21.74	21.96	22.03

