

Test Report

Report No. : T2015-07799

Company : LG Electronics Inc.
Representative : Bon-Joon Koo
Address : 1, Gwanak-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, 26.5 W [model : SB7vv0wwxyz]
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

이 (영) 선

Approved by : Kyung, Jong Won

경종원

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.
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3. The copy of this report is invalid for use.

2015. 08. 26.



President

Choi Kap-hong

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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 : $(25 \pm 5) ^\circ\text{C}$, Humidity : $(65 \pm 20) \% \text{ R.H.}$
 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 (26.5W version)
 - sample 1 : SB7w0wwxyz (Lighting), LGP-020S-VR (Converter)
 - sample 2 : SB7w0wwxyz (Lighting), LGP-020S-VR (Converter)
 - sample 3 : SB7w0wwxyz (Lighting), LGP-020S-VR (Converter)
 - sample 4 : SB7w0wwxyz (Lighting), LGP-020S-VR (Converter)
 - sample 5 : SB7w0wwxyz (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	25.93	25.99	26.20	26.23	25.89
220		25.97	26.06	26.26	26.30	25.93
230		26.03	26.13	26.34	26.38	25.99
240		26.09	26.21	26.41	26.46	26.06
250		26.15	26.29	26.49	26.56	26.13

input voltage (Vac)	dimming signal (Vdc)	Test result				
		sample 1	sample 2	sample 3	sample 4	sample 5
210V	9	25.96	25.78	25.97	26.06	25.81
220V		26.01	25.81	26.00	26.12	25.87
230V		26.06	25.86	26.07	26.19	25.92
240V		26.13	25.93	26.13	26.25	25.98
250V		26.20	26.01	26.20	26.33	26.06

input voltage (Vac)	dimming signal (Vdc)	Test result				
		sample 1	sample 2	sample 3	sample 4	sample 5
210V	8	23.46	23.26	23.50	23.57	23.61
220V		23.52	23.31	23.55	23.63	23.68
230V		23.58	23.37	23.61	23.69	23.75
240V		23.64	23.43	23.68	23.75	23.84
250V		23.73	23.51	23.75	23.83	24.03



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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	21.07	20.87	21.11	21.10	20.94
220		21.14	20.93	21.17	21.16	21.01
230		21.21	20.99	21.24	21.22	21.07
240		21.28	21.06	21.31	21.31	21.14
250		21.35	21.14	21.39	21.37	21.22

input voltage (Vac)	dimming signal (Vdc)	Test result				
		sample 1	sample 2	sample 3	sample 4	sample 5
210V	6	18.60	18.48	18.70	18.71	18.54
220V		18.67	18.54	18.76	18.77	18.60
230V		18.76	18.60	18.83	18.84	18.66
240V		18.87	18.67	18.90	18.90	18.73
250V		18.94	18.75	18.98	18.98	18.81

input voltage (Vac)	dimming signal (Vdc)	Test result				
		sample 1	sample 2	sample 3	sample 4	sample 5
210V	5	16.21	16.15	16.35	16.28	16.18
220V		16.27	16.21	16.42	16.34	16.25
230V		16.34	16.28	16.49	16.42	16.31
240V		16.42	16.36	16.56	16.50	16.38
250V		16.51	16.43	16.65	16.58	16.46



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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	13.82	13.79	14.33	13.97	13.86
220		13.88	13.86	14.42	14.03	13.94
230		13.97	13.94	14.51	14.12	14.02
240		14.03	14.02	14.62	14.21	14.11
250		14.13	14.12	14.74	14.31	14.21

input voltage (Vac)	dimming signal (Vdc)	Test result				
		sample 1	sample 2	sample 3	sample 4	sample 5
210V	3	11.52	11.52	14.01	11.62	11.52
220V		11.61	11.60	14.08	11.71	11.60
230V		11.71	11.70	14.16	11.81	11.70
240V		11.82	11.80	14.25	11.91	11.81
250V		11.93	11.91	14.34	12.03	11.93

input voltage (Vac)	dimming signal (Vdc)	Test result				
		sample 1	sample 2	sample 3	sample 4	sample 5
210V	2	9.28	9.29	9.43	9.40	9.31
220V		9.38	9.39	9.54	9.50	9.41
230V		9.49	9.50	9.65	9.62	9.52
240V		9.61	9.62	9.77	9.74	9.64
250V		9.74	9.75	9.90	9.86	9.76



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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	7.13	7.11	7.28	7.26	7.14
220		7.25	7.24	7.41	7.38	7.26
230		7.38	7.37	7.54	7.51	7.39
240		7.52	7.50	7.67	7.64	7.53
250		7.68	7.65	7.83	7.79	7.68



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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	26.51	26.56	26.76	26.79	26.46
220		26.64	26.72	26.91	26.94	26.59
230		26.80	26.90	27.09	27.12	26.75
240		26.97	27.08	27.26	27.30	26.93
250		27.16	27.29	27.46	27.52	27.12

input voltage (Vac)	dimming signal (Vdc)	Test result				
		sample 1	sample 2	sample 3	sample 4	sample 5
210V	9	26.54	26.35	26.53	26.62	26.39
220V		26.68	26.48	26.65	26.77	26.53
230V		26.83	26.63	26.82	26.93	26.68
240V		27.01	26.81	26.99	27.10	26.85
250V		27.21	27.01	27.18	27.30	27.05

input voltage (Vac)	dimming signal (Vdc)	Test result				
		sample 1	sample 2	sample 3	sample 4	sample 5
210	8	24.06	23.86	24.08	24.15	24.20
220		24.22	24.01	24.23	24.30	24.36
230		24.39	24.18	24.40	24.47	24.55
240		24.57	24.36	24.58	24.65	24.75
250		24.79	24.57	24.78	24.86	25.07



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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	21.71	21.51	21.73	21.71	21.57
220		21.88	21.67	21.89	21.87	21.74
230		22.07	21.85	22.07	22.05	21.92
240		22.27	22.05	22.27	22.26	22.12
250		22.49	22.27	22.48	22.47	22.34

input voltage (Vac)	dimming signal (Vdc)	Test result				
		sample 1	sample 2	sample 3	sample 4	sample 5
210V	6	19.28	19.16	19.36	19.36	19.21
220V		19.47	19.33	19.53	19.53	19.39
230V		19.69	19.52	19.73	19.72	19.58
240V		19.94	19.74	19.93	19.93	19.79
250V		20.16	19.97	20.16	20.16	20.02

input voltage (Vac)	dimming signal (Vdc)	Test result				
		sample 1	sample 2	sample 3	sample 4	sample 5
210	5	16.95	16.88	17.07	16.99	16.91
220		17.14	17.08	17.25	17.18	17.10
230		17.36	17.29	17.46	17.39	17.31
240		17.59	17.52	17.69	17.62	17.54
250		17.85	17.77	17.95	17.88	17.79



Test Result

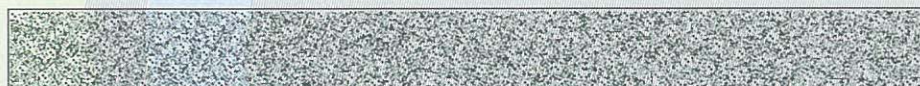
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attachment 2 reactive power (VA)

input voltage (Vac)	dimming signal (Vdc)	Test result				
		sample 1	sample 2	sample 3	sample 4	sample 5
210	4	14.64	14.61	15.12	14.76	14.68
220		14.85	14.82	15.34	14.96	14.89
230		15.10	15.06	15.58	15.20	15.13
240		15.33	15.32	15.85	15.46	15.39
250		15.62	15.61	16.16	15.74	15.68

input voltage (Vac)	dimming signal (Vdc)	Test result				
		sample 1	sample 2	sample 3	sample 4	sample 5
210V	3	12.46	12.46	14.80	12.53	12.45
220V		12.72	12.70	15.01	12.77	12.69
230V		12.99	12.97	15.25	13.04	12.97
240V		13.29	13.26	15.50	13.33	13.27
250V		13.62	13.58	15.78	13.65	13.59

input voltage (Vac)	dimming signal (Vdc)	Test result				
		sample 1	sample 2	sample 3	sample 4	sample 5
210	2	10.37	10.38	10.49	10.46	10.40
220		10.66	10.66	10.76	10.72	10.67
230		10.98	10.97	11.07	11.04	10.99
240		11.31	11.32	11.40	11.37	11.32
250		11.68	11.68	11.76	11.73	11.68



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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	8.45	8.44	8.56	8.53	8.45
220		8.78	8.77	8.88	8.86	8.78
230		9.15	9.13	9.23	9.20	9.13
240		9.54	9.52	9.60	9.58	9.52
250		9.98	9.93	10.02	9.99	9.94

