

Test Report

Report No. : T2015-06994

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, 56 W [model : S60w0wwxyz]
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

이영선 (서명)

Approved by : Kyung, Jong Won

경종원 (서명)

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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. 13.

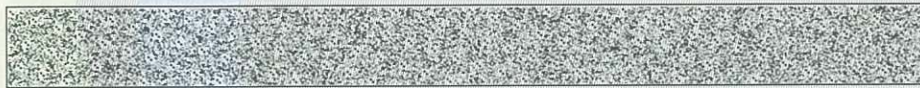


President

Choi Kap-hung
Korea Testing Certification

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

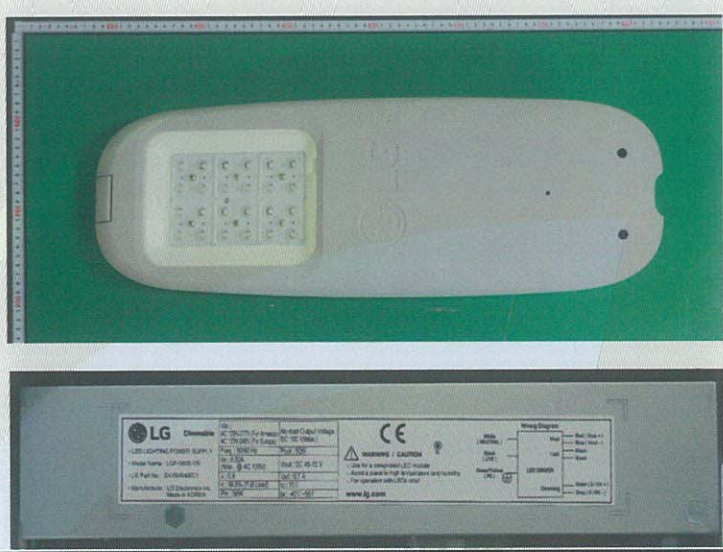


Test Result

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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 : $(25 \pm 5) ^\circ\text{C}$, 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(56 W version)
- Sample 1 : S60v0wwxyz(Lighting), LGP-060S-VR(Converter)
 - Sample 2 : S60v0wwxyz(Lighting), LGP-060S-VR(Converter)
 - Sample 3 : S60v0wwxyz(Lighting), LGP-060S-VR(Converter)
 - Sample 4 : S60v0wwxyz(Lighting), LGP-060S-VR(Converter)
 - Sample 5 : S60v0wwxyz(Lighting), LGP-060S-VR(Converter)



Test Result

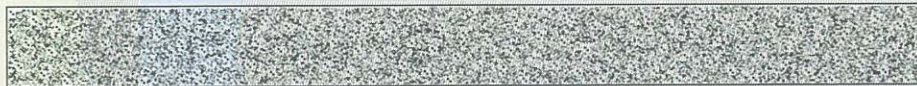
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attachment 1 active power (Watt)

input voltage (Vac)	dimming signal (Vdc)	Test result				
		sample 1	sample 2	sample 3	sample 4	sample 5
210	10	55.53	54.63	55.04	55.12	55.33
220		55.55	54.54	55.04	55.14	55.36
230		55.58	54.45	55.07	55.16	55.41
240		55.61	54.49	55.12	55.19	55.46
250		55.68	54.54	55.18	55.20	55.48

input voltage (Vac)	dimming signal (Vdc)	Test result				
		sample 1	sample 2	sample 3	sample 4	sample 5
210V	9	54.47	53.47	54.49	54.46	54.38
220V		54.49	53.40	54.60	54.55	54.56
230V		54.48	53.34	54.70	54.63	54.56
240V		54.52	53.37	54.77	54.74	54.57
250V		54.51	53.43	54.85	54.98	54.60

input voltage (Vac)	dimming signal (Vdc)	Test result				
		sample 1	sample 2	sample 3	sample 4	sample 5
210V	8	50.12	48.70	49.67	50.00	49.89
220V		50.13	48.77	49.70	50.05	49.95
230V		50.17	48.83	49.78	50.07	49.99
240V		50.10	48.85	49.77	50.09	50.01
250V		50.15	48.94	49.71	50.10	50.01



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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	45.13	43.83	44.78	44.77	45.64
220		45.05	43.85	44.86	44.82	45.54
230		45.18	43.87	44.85	44.73	45.54
240		45.30	43.79	44.84	44.87	45.70
250		45.37	43.84	45.03	45.05	45.83

input voltage (Vac)	dimming signal (Vdc)	Test result				
		sample 1	sample 2	sample 3	sample 4	sample 5
210V	6	40.74	39.62	40.30	40.25	40.92
220V		40.86	39.61	40.35	40.33	41.11
230V		40.93	39.75	40.49	40.48	41.20
240V		41.00	39.87	40.60	40.59	41.30
250V		41.07	40.13	40.70	40.67	41.41

input voltage (Vac)	dimming signal (Vdc)	Test result				
		sample 1	sample 2	sample 3	sample 4	sample 5
210V	5	36.22	35.29	35.68	35.60	36.61
220V		36.26	35.37	35.77	35.68	36.67
230V		36.26	35.46	35.86	35.77	36.70
240V		36.22	35.45	35.94	35.84	36.71
250V		36.25	35.42	36.04	35.91	36.66



Test Result

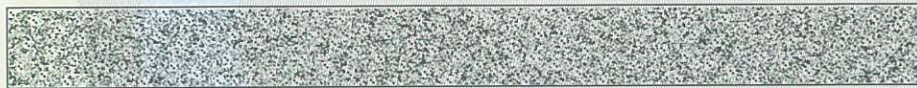
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attachment 1 active power (Watt)

input voltage (Vac)	dimming signal (Vdc)	Test result				
		sample 1	sample 2	sample 3	sample 4	sample 5
210	4	31.39	31.12	31.28	31.06	31.82
220		31.44	31.23	31.33	31.14	31.88
230		31.37	31.20	31.40	31.13	31.85
240		31.12	31.24	31.43	31.25	31.89
250		30.91	31.32	31.46	31.30	31.92

input voltage (Vac)	dimming signal (Vdc)	Test result				
		sample 1	sample 2	sample 3	sample 4	sample 5
210V	3	26.61	26.66	26.60	26.43	27.39
220V		26.59	26.58	26.60	26.50	27.21
230V		26.39	26.52	26.25	26.20	26.89
240V		26.31	26.10	26.33	26.15	26.78
250V		26.22	26.05	26.21	26.21	26.85

input voltage (Vac)	dimming signal (Vdc)	Test result				
		sample 1	sample 2	sample 3	sample 4	sample 5
210V	2	21.97	22.27	22.03	21.65	22.70
220V		22.04	22.09	22.07	21.71	22.63
230V		22.17	22.00	21.90	21.66	22.65
240V		22.20	21.87	21.88	21.54	22.67
250V		22.34	21.88	21.97	21.57	22.79



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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	18.19	17.61	17.60	17.47	18.54
220		18.19	17.55	17.71	17.49	18.53
230		18.29	17.58	17.88	17.62	18.60
240		18.44	17.73	18.07	17.81	18.76
250		18.65	17.93	18.15	17.99	18.97



Test Result

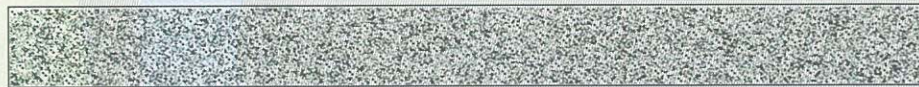
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attachment 2 reactive power (VA)

input voltage (Vac)	dimming signal (Vdc)	Test result				
		sample 1	sample 2	sample 3	sample 4	sample 5
210	10	57.08	56.13	56.71	56.73	56.89
220		57.36	56.32	56.98	57.02	57.19
230		57.69	56.55	57.33	57.34	57.54
240		58.05	56.92	57.73	57.71	57.93
250		58.49	57.33	58.18	58.10	58.32

input voltage (Vac)	dimming signal (Vdc)	Test result				
		sample 1	sample 2	sample 3	sample 4	sample 5
210V	9	56.04	55.01	56.13	56.05	55.96
220V		56.32	55.21	56.50	56.40	56.42
230V		56.62	55.46	56.93	56.79	56.72
240V		57.01	55.82	57.36	57.25	57.08
250V		57.37	56.25	57.82	57.86	57.49

input voltage (Vac)	dimming signal (Vdc)	Test result				
		sample 1	sample 2	sample 3	sample 4	sample 5
210	8	51.73	50.31	51.34	51.62	51.54
220		52.03	50.66	51.66	51.95	51.89
230		52.38	51.05	52.06	52.29	52.27
240		52.71	51.41	52.41	52.66	52.67
250		53.17	51.91	52.78	53.05	53.11



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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	46.83	45.53	46.49	46.44	47.38
220		47.05	45.85	46.86	46.79	47.60
230		47.50	46.22	47.19	47.05	47.94
240		47.99	46.53	47.63	47.56	48.47
250		48.52	47.07	48.29	48.20	49.05

input voltage (Vac)	dimming signal (Vdc)	Test result				
		sample 1	sample 2	sample 3	sample 4	sample 5
210V	6	42.50	41.40	42.08	42.01	42.72
220V		42.93	41.73	42.45	42.39	43.22
230V		43.35	42.21	42.96	42.89	43.66
240V		43.89	42.80	43.53	43.43	44.23
250V		44.49	43.56	44.16	44.01	44.86

input voltage (Vac)	dimming signal (Vdc)	Test result				
		sample 1	sample 2	sample 3	sample 4	sample 5
210	5	38.08	37.18	37.56	37.44	38.51
220		38.51	37.63	38.02	37.87	38.94
230		38.97	38.16	38.57	38.39	39.43
240		39.44	38.65	39.11	38.95	39.93
250		40.00	39.15	39.69	39.52	40.45



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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	33.51	33.22	33.37	33.10	33.97
220		33.99	33.72	33.82	33.60	34.44
230		34.42	34.16	34.31	34.03	34.91
240		34.79	34.70	34.84	34.57	35.44
250		35.35	35.28	35.45	35.20	36.04

input voltage (Vac)	dimming signal (Vdc)	Test result				
		sample 1	sample 2	sample 3	sample 4	sample 5
210V	3	29.10	29.05	28.90	28.74	29.80
220V		29.55	29.43	29.35	29.20	30.10
230V		30.00	29.90	29.64	29.54	30.46
240V		30.55	30.19	30.28	30.08	31.02
250V		31.16	30.78	30.97	30.73	31.75

input voltage (Vac)	dimming signal (Vdc)	Test result				
		sample 1	sample 2	sample 3	sample 4	sample 5
210	2	24.84	25.07	24.74	24.37	25.56
220		25.39	25.51	25.27	24.90	26.06
230		26.05	26.00	25.82	25.43	26.62
240		26.76	26.66	26.44	26.07	27.33
250		27.58	27.42	27.16	26.76	28.16



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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	21.22	20.81	20.74	20.58	21.64
220		21.84	21.43	21.36	21.18	22.24
230		22.53	22.09	22.07	21.83	22.94
240		23.26	22.83	22.85	22.59	23.67
250		24.09	23.69	23.71	23.43	24.48

