

**GE Lighting****UMSUG Test Report**

Report nr.: 16_0475 ; 16_0476 ; 16_0477

Date: 27/10/2016

**GE Lighting****UMSUG Test Report**

Report nr.: 16_0475 ; 16_0476 ; 16_0477

Date: 27/10/2016

GE Hungary Kft.

Electric Laboratory – Nagykanizsa

Lab manager: Nimród Gáspár

Tested by: Balázs Nagy

Test Description:

Measure luminaire Wattage and VA parameters with power analyser without dimming on the following input Voltages: 210V, 220V, 230V, 240V, and 250V measured in the assembled fixture.

Conditions:

Measurements done at stabilized condition which means that the W changes below 0,5% within 3 measurements 15min intervall between initial measurements and 3min for following.

Ambient Temperature: 25°C+/-3°C

Sample size: 6pcs/SKU

Number of datapoints=3(SKU)x6(sample size)
x5(Voltage level)x3(dimming level) = **270****Measured SKUs:**

SKU	Description
*1 CLO	Slbt/2UK/F/B/26/40/NL/ST/C1/N/U35/R7035
*2 CLO	Slbt/2UK/F/B/18/40/NL/ST/C1/N/U35/R7035
*3 CLO	Slbt/2UK/F/B/19/40/NL/ST/C1/N/U35/R7035
*4 non CLO	Slbt/2UK/F/B/28/40/N/ST/C1/N/U35/R7035
*5 non CLO	Slbt/2UK/F/B/20/40/N/ST/C1/N/U35/R7035
*6 non CLO	Slbt/2UK/F/B/21/40/N/ST/C1/N/U35/R7035



*: General SKU codes, same configuration

Test equipments:

Manufacturer	Type	Description	Serial No.	Next calibration date
4NL	PPA5530	Precision Power Analyser	2W016FN	20/02/2016 – 02/2017
California Inst.	1251RP	AC Power Supply	2J002FN	20/02/2016 – 02/2017



Test Summary:

1. Measured SKU: Slbt/2UK/F/B/26/40/D/ST/C1/N/U35

100% dimming, initial for CLO version

	sample	1	2	3	4	5	6
210	W	24.974	24.846	25.056	24.903	24.991	25.025
	VA	25.581	25.448	25.658	25.514	25.591	25.626
220	W	24.998	24.868	25.083	24.927	25.014	25.053
	VA	25.710	25.575	25.786	25.643	25.719	25.756
230	W	25.025	24.894	25.110	24.951	25.034	25.074
	VA	25.855	25.717	25.928	25.784	25.855	25.891
240	W	25.052	24.918	25.137	24.976	25.060	25.097
	VA	26.015	25.873	26.084	25.943	26.012	26.045
250	W	25.073	24.937	25.158	24.995	25.083	25.121
	VA	26.186	26.041	26.251	26.112	26.184	26.215

Measured SKU: Slbt/2UK/F/B/26/40/D/ST/C1/N/U35

70% dimming, initial for CLO version

	sample	1	2	3	4	5	6
210	W	18.329	18.203	18.297	18.174	18.373	18.398
	VA	19.069	18.938	19.028	18.920	19.104	19.127
220	W	18.368	18.240	18.335	18.217	18.412	18.434
	VA	19.234	19.099	19.188	19.088	19.266	19.285
230	W	18.409	18.281	18.376	18.260	18.442	18.469
	VA	19.419	19.282	19.370	19.277	19.439	19.460
240	W	18.447	18.317	18.415	18.300	18.488	18.510
	VA	19.617	19.478	19.565	19.476	19.642	19.658
250	W	18.481	18.349	18.450	18.332	18.509	18.543
	VA	19.821	19.679	19.765	19.681	19.834	19.856



Measured SKU: Slbt/2UK/F/B/26/40/D/ST/C1/N/U35

50% dimming, initial for CLO version

	sample	1	2	3	4	5	6
210	W	13.8358	13.7274	13.8271	13.7108	13.9074	13.9238
	VA	14.7244	14.6086	14.6993	14.6066	14.7813	14.7915
220	W	13.8839	13.7755	13.8761	13.7598	13.9551	13.9726
	VA	14.9222	14.8058	14.8936	14.8049	14.9798	14.9859
230	W	13.9344	13.8259	13.9278	13.8109	14.0059	14.0178
	VA	15.1346	15.016	15.1025	15.0186	15.187	15.1881
240	W	13.985	13.8744	13.9774	13.8606	14.0459	14.0674
	VA	15.3624	15.2384	15.3244	15.2459	15.4008	15.4095
250	W	14.0291	13.9158	14.0225	13.9041	14.0942	14.1104
	VA	15.6075	15.4758	15.5642	15.4917	15.6452	15.6488

Measured SKU: Slbt/2UK/F/B/26/40/D/ST/C1/N/U35

100% dimming for non-CLO and end of life CLO version

	sample	1	2	3	4	5	6
210	W	27.5662	27.4925	27.669	27.5546	27.6278	27.4765
	VA	28.138	28.114	28.2333	28.1231	28.193	28.0434
220	W	27.585	27.6119	27.6859	27.57	27.6473	27.4944
	VA	28.2568	28.2737	28.3481	28.24	28.3112	28.1591
230	W	27.6072	27.5202	27.7067	27.5907	27.6685	27.5146
	VA	28.3909	28.2905	28.4784	28.3738	28.4442	28.2911
240	W	27.6286	27.5401	27.7259	27.6066	27.6909	27.5303
	VA	28.5375	28.4402	28.6196	28.5151	28.5915	28.4289
250	W	27.6446	27.5552	27.7439	27.6198	27.7069	27.5551
	VA	28.6953	28.5966	28.7759	28.6706	28.7479	28.5913



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Measured SKU: Slbt/2UK/F/B/26/40/D/ST/C1/N/U35

70% dimming for for non-CLO and end of life CLO version

	sample	1	2	3	4	5	6
210	W	20.1334	20.0938	20.1258	20.1049	20.2431	19.9724
	VA	20.8324	20.7862	20.8154	20.8038	20.9342	20.6654
220	W	20.167	20.1256	20.1609	20.1341	20.2787	20.0082
	VA	20.9847	20.9347	20.9658	20.9527	21.0847	20.8166
230	W	20.2046	20.1609	20.196	20.1779	20.3108	20.0524
	VA	21.1585	21.1043	21.1337	21.132	21.2508	20.9954
240	W	20.2412	20.1948	20.2332	20.2031	20.3385	20.0875
	VA	21.3468	21.2883	21.3191	21.3111	21.4292	21.1803
250	W	20.2718	20.223	20.2629	20.2396	20.3686	20.1188
	VA	21.5462	21.4848	21.5146	21.518	21.6251	21.3735

Measured SKU: Slbt/2UK/F/B/26/40/D/ST/C1/N/U35

50% dimming for non-CLO and end of life CLO version

	sample	1	2	3	4	5	6
210	W	15.0599	14.9508	15.0436	14.9315	15.1158	15.1413
	VA	15.9021	15.7853	15.8707	15.7793	15.9453	15.964
220	W	15.1044	14.9956	15.0889	14.9771	15.1654	15.1887
	VA	16.0901	15.9713	16.0556	15.9697	16.1378	16.1528
230	W	15.1512	15.0427	15.1368	15.0269	15.2094	15.2304
	VA	16.2946	16.1767	16.2559	16.1772	16.3396	16.3453
240	W	15.1984	15.0865	15.1831	15.0777	15.251	15.2826
	VA	16.5127	16.3874	16.4686	16.3976	16.5478	16.565
250	W	15.2371	15.1266	15.2257	15.1135	15.2935	15.3178
	VA	16.7397	16.6124	16.6931	16.6242	16.7737	16.7802



2. Measured SKU: Slbt/2UK/F/B/18/40/D/ST/C1/N/U35

100% dimming, initial for CLO version

	sample	1	2	3	4	5	6
210	W	17.2193	17.0968	17.2969	17.1989	17.0804	17.3584
	VA	17.9933	17.8649	18.0571	17.9743	17.8503	18.1168
220	W	17.2611	17.145	17.3398	17.2431	17.1223	17.4045
	VA	18.1663	18.0414	18.2277	18.1518	18.0223	18.2883
230	W	17.3055	17.1819	17.3817	17.2805	17.1627	17.4469
	VA	18.3614	18.2275	18.4154	18.3387	18.2116	18.4783
240	W	17.3453	17.2234	17.4226	17.3206	17.2047	17.4848
	VA	18.5626	18.431	18.6139	18.5417	18.416	18.6694
250	W	17.38	17.2594	17.4599	17.3538	17.2439	17.5183
	VA	18.7746	18.6393	18.8231	18.7524	18.6264	18.8747

Measured SKU: Slbt/2UK/F/B/18/40/D/ST/C1/N/U35

70% dimming, initial for CLO version

	sample	1	2	3	4	5	6
210	W	12.6631	12.6038	12.6762	12.7169	12.596	12.7423
	VA	13.6084	13.5377	13.6012	13.6609	13.5335	13.6656
220	W	12.7148	12.6558	12.7306	12.7683	12.651	12.7971
	VA	13.8127	13.7408	13.8034	13.8615	13.7372	13.8657
230	W	12.7715	12.7101	12.7852	12.8287	12.7018	12.8433
	VA	14.0396	13.9616	14.0231	14.0923	13.9546	14.0784
240	W	12.8235	12.7626	12.8401	12.879	12.748	12.8975
	VA	14.2813	14.1991	14.2611	14.3308	14.1878	14.3127
250	W	12.8701	12.8078	12.8875	12.9197	12.7914	12.9513
	VA	14.5475	14.4571	14.5199	14.5931	14.4462	14.58



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50% dimming, initial for CLO version

	sample	1	2	3	4	5	6
210	W	9.64998	9.58422	9.72432	9.64905	9.57259	9.72854
	VA	10.7623	10.6829	10.8058	10.7612	10.6726	10.8104
220	W	9.71254	9.64665	9.78812	9.70978	9.6376	9.78511
	VA	11.0053	10.9216	11.0424	11.0027	10.9152	11.0375
230	W	9.77738	9.70976	9.85142	9.77104	9.69914	9.84875
	VA	11.2825	11.1912	11.3094	11.2753	11.1804	11.3056
240	W	9.83788	9.76962	9.91474	9.83678	9.76378	9.91411
	VA	11.5815	11.4834	11.6035	11.5829	11.4815	11.6045
250	W	9.89083	9.82059	9.96698	9.8864	9.81366	9.96391
	VA	11.9053	11.7997	11.9191	11.905	11.7966	11.9128

Measured SKU: Slbt/2UK/F/B/18/40/D/ST/C1/N/U35

100% dimming for non-CLO and end of life CLO version

	sample	1	2	3	4	5	6
210	W	18.9005	18.8536	18.9238	18.8142	18.7838	19.0259
	VA	19.6293	19.5757	19.642	19.5455	19.507	19.7423
220	W	18.9395	18.8903	18.9619	18.8464	18.8169	19.0665
	VA	19.7917	19.7339	19.8001	19.7015	19.6633	19.9008
230	W	18.9798	18.9301	18.9995	18.8832	18.8565	19.1083
	VA	19.9733	19.9128	19.9753	19.8824	19.8431	20.082
240	W	19.0164	18.967	19.0386	18.9286	18.8921	19.146
	VA	20.1688	20.1061	20.169	20.0871	20.033	20.273
250	W	19.0492	18.9971	19.0711	18.9604	18.9293	19.1702
	VA	20.3707	20.3046	20.3661	20.2861	20.2411	20.4597



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70% dimming for non-CLO and end of life CLO version

	sample	1	2	3	4	5	6
210	W	13.8363	13.802	13.9214	13.8209	13.7879	13.9294
	VA	14.7285	14.6812	14.7925	14.7158	14.6697	14.7992
220	W	13.8866	13.8509	13.9712	13.8709	13.8297	13.9752
	VA	14.9285	14.8788	14.988	14.9142	14.8617	14.991
230	W	13.9385	13.9016	14.0244	13.9294	13.886	14.0252
	VA	15.1427	15.0883	15.1984	15.1348	15.0788	15.1977
240	W	13.987	13.949	14.0744	13.979	13.9304	14.0778
	VA	15.3694	15.3105	15.4205	15.3624	15.2975	15.4229
250	W	14.0323	13.9906	14.1201	14.0145	13.9737	14.1223
	VA	15.617	15.5483	15.6609	15.6014	15.535	15.6588

Measured SKU: Slbt/2UK/F/B/18/40/D/ST/C1/N/U35

50% dimming for non-CLO and end of life CLO version

	sample	1	2	3	4	5	6
210	W	10.5698	10.4919	10.6467	10.5678	10.4756	10.6482
	VA	11.6236	11.5329	11.6717	11.6217	11.5201	11.6702
220	W	10.6287	10.5487	10.707	10.6211	10.5352	10.7107
	VA	11.8502	11.7536	11.8931	11.8435	11.7418	11.8976
230	W	10.6915	10.6111	10.769	10.6803	10.6011	10.7694
	VA	12.1075	12.0061	12.1422	12.097	12.0012	12.1389
240	W	10.7503	10.6693	10.8286	10.7407	10.6591	10.8236
	VA	12.3892	12.2812	12.4165	12.3816	12.274	12.4091
250	W	10.8015	10.7183	10.8799	10.7947	10.709	10.8791
	VA	12.6927	12.5768	12.7123	12.6846	12.5714	12.7062



3. Measured SKU: Slbt/2UK/F/B/19/40/D/ST/C1/N/U35

100% dimming, initial for CLO version

	sample	1	2	3	4	5	6
210	W	18.329	18.203	18.297	18.174	18.373	18.398
	VA	19.069	18.938	19.028	18.920	19.104	19.127
220	W	18.368	18.240	18.335	18.217	18.412	18.434
	VA	19.234	19.099	19.188	19.088	19.266	19.285
230	W	18.409	18.281	18.376	18.260	18.442	18.469
	VA	19.419	19.282	19.370	19.277	19.439	19.460
240	W	18.447	18.317	18.415	18.300	18.488	18.510
	VA	19.617	19.478	19.565	19.476	19.642	19.658
250	W	18.481	18.349	18.450	18.332	18.509	18.543
	VA	19.821	19.679	19.765	19.681	19.834	19.856

Measured SKU: Slbt/2UK/F/B/19/40/D/ST/C1/N/U35

70% dimming, initial for CLO version

	sample	1	2	3	4	5	6
210	W	13.5336	13.4258	13.6261	13.5167	13.6086	13.5193
	VA	14.4352	14.3197	14.5065	14.4219	14.497	14.4029
220	W	13.5838	13.4735	13.6754	13.5609	13.6564	13.5735
	VA	14.6353	14.5171	14.7016	14.6156	14.6917	14.6061
230	W	13.636	13.5243	13.7268	13.617	13.7087	13.6256
	VA	14.8516	14.7295	14.9122	14.8338	14.9044	14.8156
240	W	13.6861	13.5747	13.7764	13.6692	13.7591	13.6698
	VA	15.0814	14.9561	15.1353	15.0659	15.1294	15.0341
250	W	13.731	13.6159	13.8222	13.7126	13.7995	13.7207
	VA	15.3308	15.1972	15.378	15.3176	15.3678	15.2865



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50% dimming, initial for CLO version

	sample	1	2	3	4	5	6
210	W	10.414	10.309	10.5077	10.409	10.501	10.4043
	VA	11.4725	11.358	11.538	11.4694	11.5412	11.4387
220	W	10.4727	10.3656	10.5676	10.4654	10.5514	10.4701
	VA	11.6998	11.58	11.7604	11.6929	11.7548	11.6674
230	W	10.5341	10.4259	10.6284	10.5224	10.6114	10.5311
	VA	11.9576	11.8313	12.0089	11.95	12.0018	11.9206
240	W	10.5928	10.4842	10.6865	10.5858	10.6762	10.585
	VA	12.2392	12.1075	12.281	12.2362	12.2821	12.1909
250	W	10.6435	10.5344	10.7399	10.6307	10.7238	10.6359
	VA	12.5431	12.4055	12.5795	12.533	12.5733	12.4864

Measured SKU: Slbt/2UK/F/B/19/40/D/ST/C1/N/U35

100% dimming for non-CLO and end of life CLO version

	sample	1	2	3	4	5	6
210	W	20.1334	20.0938	20.1258	20.1049	20.2431	19.9724
	VA	20.8324	20.7862	20.8154	20.8038	20.9342	20.6654
220	W	20.167	20.1256	20.1609	20.1341	20.2787	20.0082
	VA	20.9847	20.9347	20.9658	20.9527	21.0847	20.8166
230	W	20.2046	20.1609	20.196	20.1779	20.3108	20.0524
	VA	21.1585	21.1043	21.1337	21.132	21.2508	20.9954
240	W	20.2412	20.1948	20.2332	20.2031	20.3385	20.0875
	VA	21.3468	21.2883	21.3191	21.3111	21.4292	21.1803
250	W	20.2718	20.223	20.2629	20.2396	20.3686	20.1188
	VA	21.5462	21.4848	21.5146	21.518	21.6251	21.3735



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70% dimming for non-CLO and end of life CLO version

	sample	1	2	3	4	5	6
210	W	14.7719	14.7323	14.8545	14.7516	14.867	14.7267
	VA	15.6264	15.5772	15.6905	15.6067	15.7085	15.5668
220	W	14.8185	14.7782	14.9015	14.7923	14.9131	14.7728
	VA	15.8184	15.766	15.8785	15.795	15.8964	15.7555
230	W	14.8667	14.8247	14.9486	14.8465	14.9594	14.8267
	VA	16.0253	15.97	16.0804	16.0078	16.1012	15.9647
240	W	14.9133	14.87	14.995	14.8864	15.0144	14.8778
	VA	16.2447	16.1847	16.2954	16.2188	16.3231	16.1814
250	W	14.955	14.9088	15.0377	14.9294	15.053	14.9195
	VA	16.4768	16.4098	16.5229	16.4564	16.5476	16.4083

Measured SKU: Slbt/2UK/F/B/19/40/D/ST/C1/N/U35

50% dimming for non-CLO and end of life CLO version

	sample	1	2	3	4	5	6
210	W	11.2407	11.3171	11.331	11.3264	11.345	11.3182
	VA	12.2554	12.3132	12.3191	12.3349	12.325	12.3071
220	W	11.2958	11.371	11.3872	11.3809	11.3994	11.3759
	VA	12.4722	12.5245	12.532	12.5511	12.5505	12.5187
230	W	11.3537	11.4286	11.4441	11.4433	11.4497	11.4369
	VA	12.7142	12.7598	12.7665	12.7984	12.7825	12.7569
240	W	11.4105	11.4826	11.5017	11.5015	11.5115	11.4876
	VA	12.982	13.0163	13.0258	13.0623	13.0444	13.0126
250	W	11.4607	11.5312	11.5512	11.5527	11.5559	11.5396
	VA	13.2715	13.295	13.3066	13.3517	13.3233	13.2962



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Comment: 3000K and 5000K version use the same LED chip only CCT different which does not have effect on electrical parameters that is why 4000K measurement cover the 3000K and 5000K SKUs as well. Neither the mounted Glass nor the Fastening Console have any significant influence on the measured parameters. Also all the accessory Minicell has separate UMSUG code why they were not measured by us. SVP surge protection or additional fuse does not have effect on electrical parameters.

Tested by (name + signature).....: Balázs Nagy

Nagy Balázs

Approved by (+ signature).....: Nimród Gáspár

Gáspár Nimród