



GE Lighting

UMSUG Test Report

Report nr.: 16_0017-16_0023

Date: 21/01/2016



GE Lighting

UMSUG Test Report

Report nr.: 16_0017-16_0023

Date: 21/02/2016

GE Hungary Kft.

Lab manager: Nimród Gáspár

Electric Laboratory – Nagykanizsa

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=7(SKU)x6(sample size)
x5(Voltage level)x3(dimming level) = 600

Measured SKUs:

Labor ID	SKUs:	Description
16_0017	*1	SLBT/1/F/B/12/40/C/ST/C1/N/S60/R7035
16_0018	*2	SLBT/1/F/B/15/40/C/ST/C1/N/S60/R7035
16_0019	*3	SLBT/1/F/B/20/40/C/ST/C1/N/S60/R7035
16_0020	*4	SLBT/1/F/B/30/40/C/ST/C1/N/S60/R7035
16_0021	*5	SLBT/1/F/B/42/40/C/ST/C1/N/S60/R7035
16_0022	*6	SLBT/1/F/B/49/40/C/ST/C1/N/S60/R7035
16_0023	*7	SLBT/1/F/B/56/40/C/ST/C1/N/S60/R7035



SLBT Fixture

*: SKU codes will be generated later.



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Test equipments:

Manufacturer	Type	Description	Serial No.	Next calibration date
Yokogawa	WT1030	Digital Power Meter	2W001FN	12/01/2015 – 01/2016
California Inst.	1251RP	AC Power Supply	2J002FN	13/01/2015 – 01/2016

Test Summary:

Labor ID: 16_0017

Measured SKU: SLBT/1/F/B/12/40/C/ST/C1/N/S60/R7035

100% dimming

	sample	1	2	3	4	5	6
210	W	11.18	11.21	11.19	11.15	11.22	11.16
	VA	12.22	12.26	12.25	12.20	12.27	12.23
220	W	11.24	11.27	11.24	11.21	11.28	11.22
	VA	12.44	12.48	12.47	12.42	12.49	12.45
230	W	11.29	11.32	11.31	11.27	11.34	11.28
	VA	12.69	12.72	12.73	12.67	12.74	12.70
240	W	11.35	11.38	11.36	11.32	11.39	11.34
	VA	12.97	13.00	13.00	12.95	13.02	12.98
250	W	11.40	11.43	11.41	11.38	11.45	11.40
	VA	13.26	13.29	13.30	13.25	13.32	13.28

Labor ID: 16_0017

Measured SKU: SLBT/1/F/B/12/40/C/ST/C1/N/S60/R7035

75% dimming

	sample	1	2	3	4	5	6
210	W	8.86	8.89	8.90	8.84	8.94	8.86
	VA	10.06	10.09	10.12	10.05	10.15	10.08
220	W	8.93	8.96	8.97	8.90	9.00	8.92
	VA	10.33	10.36	10.38	10.31	10.40	10.34
230	W	9.00	9.02	9.03	8.97	9.07	8.99
	VA	10.63	10.65	10.68	10.61	10.70	10.64
240	W	9.06	9.09	9.10	9.04	9.14	9.05
	VA	10.95	10.98	11.01	10.94	11.02	10.97
250	W	9.11	9.14	9.15	9.09	9.19	9.11
	VA	11.29	11.32	11.35	11.28	11.37	11.32



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Labor ID: 16_0018

Measured SKU: SLBT/1/F/B/15/40/C/ST/C1/N/S60/R7035

100% dimming

	sample	1	2	3	4	5	6
210	W	13.89	13.92	13.91	13.84	13.94	13.89
	VA	14.80	14.84	14.84	14.76	14.86	14.82
220	W	13.94	13.97	13.96	13.89	13.98	13.94
	VA	15.00	15.04	15.04	14.96	15.06	15.02
230	W	13.99	14.02	14.01	13.95	14.04	13.99
	VA	15.22	15.26	15.26	15.18	15.28	15.24
240	W	14.04	14.07	14.07	14.00	14.09	14.04
	VA	15.45	15.49	15.49	15.42	15.51	15.47
250	W	14.09	14.12	14.11	14.04	14.13	14.09
	VA	15.70	15.73	15.74	15.66	15.75	15.72

Labor ID: 16_0018

Measured SKU: SLBT/1/F/B/15/40/C/ST/C1/N/S60/R7035

75% dimming

	sample	1	2	3	4	5	6
210	W	10.85	10.87	10.85	10.81	10.88	10.84
	VA	11.91	11.94	11.93	11.88	11.95	11.92
220	W	10.91	10.93	10.91	10.87	10.95	10.90
	VA	12.14	12.16	12.16	12.11	12.18	12.15
230	W	10.97	10.99	10.97	10.94	11.01	10.96
	VA	12.39	12.42	12.41	12.37	12.44	12.40
240	W	11.02	11.05	11.03	11.00	11.07	11.02
	VA	12.67	12.70	12.70	12.66	12.72	12.69
250	W	11.08	11.10	11.08	11.04	11.12	11.07
	VA	12.98	13.00	13.01	12.96	13.02	12.99



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Labor ID: 16_0018

Measured SKU: SLBT/1/F/B/15/40/C/ST/C1/N/S60/R7035

50% dimming

	sample	1	2	3	4	5	6
210	W	7.88	7.99	7.94	7.86	8.00	7.94
	VA	9.18	9.28	9.25	9.16	9.29	9.25
220	W	7.95	8.06	8.01	7.93	8.07	8.00
	VA	9.46	9.57	9.54	9.45	9.58	9.53
230	W	8.02	8.13	8.08	8.00	8.14	8.07
	VA	9.78	9.88	9.86	9.77	9.89	9.85
240	W	8.08	8.20	8.15	8.07	8.20	8.14
	VA	10.12	10.22	10.20	10.12	10.24	10.20
250	W	8.10	8.20	8.16	8.07	8.24	8.14
	VA	10.27	10.35	10.29	10.22	10.47	10.26

Labor ID: 16_0019

Measured SKU: SLBT/1/F/B/20/40/C/ST/C1/N/S60/R7035

100% dimming

	sample	1	2	3	4	5	6
210	W	18.96	19.01	18.97	18.88	19.02	18.99
	VA	19.71	19.77	19.73	19.63	19.77	19.75
220	W	19.00	19.05	19.01	18.92	19.05	19.03
	VA	19.87	19.93	19.90	19.80	20.02	19.91
230	W	19.05	19.09	19.05	18.96	19.10	19.06
	VA	20.06	20.12	20.08	19.98	20.12	20.09
240	W	19.08	19.13	19.09	19.00	19.14	19.11
	VA	20.26	20.31	20.29	20.18	20.32	20.30
250	W	19.12	19.17	19.12	19.04	19.17	19.14
	VA	20.46	20.52	20.49	20.39	20.52	20.51



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Measured SKU: SLBT/1/F/B/20/40/C/ST/C1/N/S60/R7035

75% dimming

	sample	1	2	3	4	5	6
210	W	14.46	14.48	14.48	14.41	14.49	14.45
	VA	15.35	15.37	15.38	15.30	15.39	15.35
220	W	14.51	14.52	14.53	14.46	14.55	14.50
	VA	15.54	15.57	15.59	15.50	15.59	15.55
230	W	14.56	14.58	14.58	14.51	14.60	14.55
	VA	15.76	15.78	15.80	15.71	15.80	15.76
240	W	14.61	14.63	14.63	14.56	14.64	14.59
	VA	15.99	16.01	16.03	15.94	16.03	15.99
250	W	14.65	14.67	14.68	14.60	14.69	14.64
	VA	16.22	16.25	16.27	16.18	16.27	16.24

Labor ID: 16_0019

Measured SKU: SLBT/1/F/B/20/40/C/ST/C1/N/S60/R7035

50% dimming

	sample	1	2	3	4	5	6
210	W	10.23	10.30	10.27	10.20	10.31	10.26
	VA	11.33	11.40	11.39	11.31	11.42	11.37
220	W	10.29	10.36	10.33	10.26	10.37	10.32
	VA	11.57	11.63	11.62	11.54	11.65	11.61
230	W	10.36	10.42	10.39	10.32	10.43	10.38
	VA	11.84	11.90	11.89	11.81	11.91	11.88
240	W	10.42	10.48	10.46	10.38	10.49	10.45
	VA	12.13	12.19	12.19	12.11	12.21	12.18
250	W	10.47	10.53	10.51	10.44	10.55	10.50
	VA	12.44	12.51	12.50	12.43	12.52	12.50



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Measured SKU: SLBT/1/F/B/30/40/C/ST/C1/N/S60/R7035

100% dimming

	sample	1	2	3	4	5	6
210	W	28.66	28.67	28.69	28.50	28.68	28.60
	VA	29.23	29.26	29.27	29.08	29.26	29.19
220	W	28.68	28.68	28.71	28.52	28.68	28.62
	VA	29.35	29.37	29.39	29.20	29.37	29.30
230	W	28.73	28.70	28.73	28.54	28.71	28.64
	VA	29.51	29.49	29.53	29.33	29.50	29.44
240	W	28.75	28.72	28.74	28.56	28.73	28.66
	VA	29.65	29.64	29.66	29.47	29.65	29.58
250	W	28.80	28.74	28.76	28.58	28.75	28.67
	VA	29.83	29.80	29.83	29.63	29.81	29.74

Labor ID: 16_0020

Measured SKU: SLBT/1/F/B/30/40/C/ST/C1/N/S60/R7035

75% dimming

	sample	1	2	3	4	5	6
210	W	21.53	21.48	21.56	21.42	21.52	21.46
	VA	22.22	22.18	22.26	22.11	22.22	22.16
220	W	21.56	21.52	21.59	21.45	21.55	21.49
	VA	22.36	22.33	22.41	22.26	22.37	22.31
230	W	21.60	21.55	21.63	21.49	21.59	21.53
	VA	22.54	22.50	22.58	22.43	22.53	22.48
240	W	21.63	21.59	21.67	21.52	21.62	21.56
	VA	22.71	22.68	22.77	22.61	22.72	22.67
250	W	21.66	21.61	21.70	21.55	21.65	21.59
	VA	22.91	22.88	22.97	22.81	22.91	22.86



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Measured SKU: SLBT/1/F/B/30/40/C/ST/C1/N/S60/R7035

50% dimming

	sample	1	2	3	4	5	6
210	W	14.61	14.66	14.67	14.55	14.68	14.64
	VA	15.49	15.55	15.56	15.44	15.57	15.53
220	W	14.65	14.71	14.71	14.61	14.73	14.69
	VA	15.68	15.75	15.76	15.64	15.77	15.73
230	W	14.71	14.76	14.77	14.66	14.78	14.74
	VA	15.90	15.96	15.97	15.86	15.98	15.95
240	W	14.75	14.81	14.82	14.71	14.83	14.78
	VA	16.12	16.19	16.20	16.08	16.21	16.17
250	W	14.80	14.86	14.86	14.75	14.87	14.82
	VA	16.36	16.42	16.44	16.32	16.44	16.41

Labor ID: 16_0021

Measured SKU: SLBT/1/F/B/42/40/C/ST/C1/N/S60/R7035

100% dimming

	sample	1	2	3	4	5	6
210	W	40.83	40.92	40.88	40.78	40.93	40.95
	VA	41.28	41.39	41.35	41.23	41.41	41.42
220	W	40.82	40.92	40.87	40.77	40.94	40.94
	VA	41.36	41.47	41.43	41.31	41.49	41.49
230	W	40.82	40.91	40.87	40.77	40.93	40.94
	VA	41.45	41.56	41.52	41.40	41.58	41.59
240	W	40.82	40.91	40.88	40.77	40.94	40.94
	VA	41.56	41.67	41.63	41.51	41.69	41.69
250	W	40.83	40.91	40.89	40.77	40.94	40.94
	VA	41.68	41.78	41.76	41.63	41.81	41.81



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Measured SKU: SLBT/1/F/B/42/40/C/ST/C1/N/S60/R7035

75% dimming

	sample	1	2	3	4	5	6
210	W	30.48	30.67	30.55	30.56	30.67	30.70
	VA	31.03	31.23	31.11	31.11	31.23	31.27
220	W	30.50	30.68	30.57	30.58	30.69	30.72
	VA	31.15	31.34	31.23	31.23	31.34	31.38
230	W	30.53	30.70	30.58	30.60	30.71	30.73
	VA	31.28	31.47	31.35	31.35	31.47	31.50
240	W	30.55	30.72	30.60	30.61	30.73	30.76
	VA	31.42	31.61	31.49	31.49	31.61	31.64
250	W	30.57	30.74	30.62	30.63	30.75	30.77
	VA	31.58	31.76	31.64	31.64	31.77	31.80

Labor ID: 16_0021

Measured SKU: SLBT/1/F/B/42/40/C/ST/C1/N/S60/R7035

50% dimming

	sample	1	2	3	4	5	6
210	W	20.51	20.70	20.64	20.54	20.73	20.70
	VA	21.22	21.42	21.35	21.25	21.44	21.42
220	W	20.55	20.74	20.67	20.58	20.76	20.74
	VA	21.38	21.57	21.50	21.41	21.60	21.57
230	W	20.58	20.78	20.71	20.62	20.80	20.78
	VA	21.55	21.75	21.68	21.58	21.77	21.75
240	W	20.62	20.81	20.74	20.65	20.83	20.81
	VA	21.74	21.93	21.87	21.77	21.95	21.94
250	W	20.65	20.84	20.78	20.69	20.87	20.84
	VA	21.94	22.13	22.07	21.97	22.16	22.14



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Labor ID: 16_0022

Measured SKU: SLBT/1/F/B/49/40/C/ST/C1/N/S60/R7035

100% dimming

	sample	1	2	3	4	5	6
210	W	47.68	47.81	47.75	47.66	47.82	47.79
	VA	48.10	48.24	48.19	48.08	48.25	48.22
220	W	47.66	47.78	47.71	47.65	47.80	47.77
	VA	48.15	48.29	48.22	48.13	48.31	48.27
230	W	47.65	47.77	47.70	47.63	47.78	47.75
	VA	48.22	48.36	48.30	48.21	48.37	48.34
240	W	47.64	47.75	47.69	47.62	47.77	47.74
	VA	48.31	48.44	48.38	48.30	48.46	48.42
250	W	47.62	47.74	47.68	47.62	47.76	47.72
	VA	48.41	48.54	48.48	48.40	48.56	48.52

Labor ID: 16_0022

Measured SKU: SLBT/1/F/B/49/40/C/ST/C1/N/S60/R7035

75% dimming

	sample	1	2	3	4	5	6
210	W	35.45	35.59	35.47	35.43	35.64	35.63
	VA	35.95	36.10	35.98	35.93	36.16	36.14
220	W	35.46	35.59	35.47	35.44	35.65	35.63
	VA	36.05	36.20	36.08	36.03	36.25	36.23
230	W	35.47	35.61	35.49	35.46	35.66	35.65
	VA	36.16	36.31	36.19	36.14	36.36	36.35
240	W	35.49	35.62	35.50	35.47	35.67	35.65
	VA	36.29	36.43	36.32	36.27	36.48	36.47
250	W	35.49	35.62	35.51	35.47	35.68	35.67
	VA	36.42	36.56	36.45	36.40	36.62	36.61



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Labor ID: 16_0022

Measured SKU: SLBT/1/F/B/49/40/C/ST/C1/N/S60/R7035

50% dimming

	sample	1	2	3	4	5	6
210	W	23.79	23.85	23.82	23.76	23.94	23.87
	VA	24.43	24.51	24.47	24.41	24.59	24.53
220	W	23.82	23.88	23.84	23.79	23.96	23.90
	VA	24.57	24.64	24.61	24.55	24.72	24.66
230	W	23.85	23.91	23.87	23.83	23.99	23.93
	VA	24.73	24.80	24.76	24.70	24.88	24.82
240	W	23.87	23.94	23.90	23.86	24.03	23.97
	VA	24.89	24.97	24.93	24.88	25.05	25.00
250	W	23.90	23.97	23.93	23.85	24.05	23.99
	VA	25.08	25.15	25.12	25.03	25.23	25.18

Labor ID: 16_0023

Measured SKU: SLBT/1/F/B/56/40/C/ST/C1/N/S60/R7035

100% dimming

	sample	1	2	3	4	5	6
210	W	54.72	54.81	54.83	54.68	54.66	54.80
	VA	55.10	55.21	55.22	55.06	55.07	55.19
220	W	54.68	54.77	54.78	54.64	54.63	54.75
	VA	55.13	55.24	55.25	55.09	55.10	55.21
230	W	54.64	54.74	54.74	54.61	54.59	54.71
	VA	55.17	55.28	55.29	55.13	55.14	55.26
240	W	54.62	54.71	54.71	54.58	54.56	54.68
	VA	55.24	55.35	55.35	55.20	55.20	55.32
250	W	54.59	54.68	54.68	54.56	54.54	54.65
	VA	55.32	55.42	55.43	55.28	55.29	55.39



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Measured SKU: SLBT/1/F/B/56/40/C/ST/C1/N/S60/R7035

75% dimming

	sample	1	2	3	4	5	6
210	W	40.47	40.55	40.52	40.41	40.57	40.58
	VA	40.92	41.02	41.00	40.87	41.05	41.05
220	W	40.45	40.53	40.51	40.41	40.57	40.57
	VA	40.99	41.09	41.07	40.95	41.13	41.12
230	W	40.46	40.54	40.51	40.41	40.57	40.56
	VA	41.10	41.19	41.17	41.04	41.22	41.21
240	W	40.46	40.54	40.52	40.41	40.57	40.57
	VA	41.20	41.29	41.27	41.15	41.33	41.32
250	W	40.46	40.54	40.52	40.42	40.58	40.58
	VA	41.32	41.41	41.39	41.28	41.45	41.45

Labor ID: 16_0023

Measured SKU: SLBT/1/F/B/56/40/C/ST/C1/N/S60/R7035

50% dimming

	sample	1	2	3	4	5	6
210	W	26.84	27.01	26.94	26.85	27.02	27.02
	VA	27.44	27.62	27.55	27.44	27.63	27.63
220	W	26.86	27.03	26.96	26.87	27.04	27.05
	VA	27.56	27.74	27.67	27.57	27.75	27.76
230	W	26.89	27.06	26.99	26.89	27.06	27.07
	VA	27.70	27.88	27.81	27.71	27.89	27.90
240	W	26.91	27.08	27.01	26.92	27.09	27.10
	VA	27.86	28.03	27.97	27.86	28.04	28.06
250	W	26.94	27.10	27.03	26.94	27.11	27.11
	VA	28.03	28.20	28.13	28.03	28.20	28.21

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



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