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in APPENDIX. The ambient temperature T_A was measured by several thermocouples at a distance of 1.5 mm above the reliability test board. The relative humidity within chamber was less than 65%.

For photometry measurement, temperature was set to $25^{\circ}\text{C} \pm 2^{\circ}\text{C}$, RH <65%.

1.7 Photometry Measurement Uncertainty

The uncertainty of the light output measurements is $U=1.50\%$ ($K=2$), at the 95% confidence level. The uncertainty of the correlated color temperature measurements is $U=14\text{K}$ ($K=2$), at the 95% confidence level. This calibration results traceable to the NATIONAL INSTITUTE OF METROLOGY (NIM).

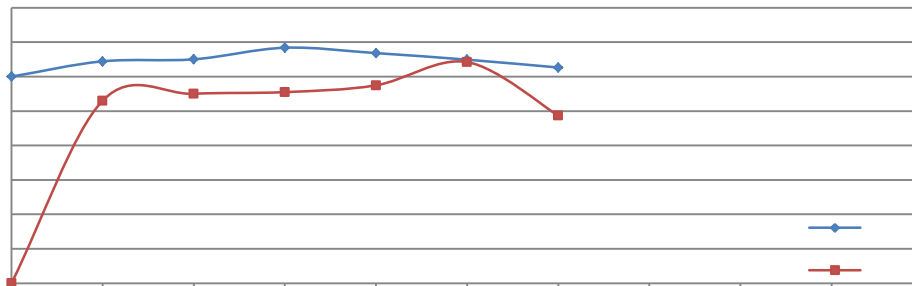
1.8 Sample Set

Data Set 1: 55°C, 20mA

Part Number:	3528HW
Number of Units:	25
Actual Case Temperature(T_S):	$T_S = 54.9^{\circ}\text{C}$
Actual Ambient Temperature(T_A):	$T_A = 54.8^{\circ}\text{C}$

3.2 Data Set 1, 55°C, 20mA (Chromaticity Shift)

No.	u _v	v _v	KRPDWLFLW6KIWX _v					
	0hr(Initial)		1000hrs	2000hrs	3000hrs	4000hrs	5000hrs	6000hrs
1	0.2005	0.4583	0.0015	0.0017	0.0014	0.0014	0.0016	0.0017
2	0.2017	0.4591	0.0032	0.0033	0.0033	0.0034	0.0037	0.0031
3	0.2014	0.4619	0.0028	0.0026	0.0029	0.0031	0.0032	0.0030
4	0.1989	0.4671	0.0014	0.0015	0.0014	0.0016	0.0019	0.0010
5	0.2003	0.4625	0.0031	0.0028	0.0030	0.0031	0.0036	0.0025
6	0.2002	0.4603	0.0014	0.0025	0.0031	0.0031	0.0038	0.0028
7	0.2001	0.463	0.0034	0.0031	0.0033	0.0035	0.0038	0.0031
8	0.2001	0.4617	0.0034	0.0032	0.0034	0.0035	0.0045	0.0032
9	0.1999	0.4631	0.0013	0.0013	0.0014	0.0014	0.0018	0.0016
10	0.2012	0.4666	0.0016	0.0017	0.0015	0.0016	0.0021	0.0017
11	0.2004	0.463	0.0033	0.0031	0.0032	0.0036	0.0037	0.0028
12	0.2021	0.461	0.0035	0.0036	0.0036	0.0036	0.0040	0.0029
13	0.2013	0.4641	0.0015	0.0016	0.0016	0.0016	0.0019	0.0018
14	0.2028	0.4595	0.0039	0.0038	0.0040	0.0039	0.0043	0.0057
15	0.2007	0.4597	0.0015	0.0015	0.0015	0.0015	0.0017	0.0017
16	0.2016	0.4624	0.0030	0.0030	0.0031	0.0032	0.0036	0.0022
17	0.2019	0.4649	0.0034	0.0034	0.0035	0.0036	0.0038	0.0026
18	0.2039	0.461	0.0037	0.0038	0.0039	0.0040	0.0045	0.0033
19	0.2007	0.459	0.0032	0.0032	0.0034	0.0037	0.0038	0.0027
20	0.2011	0.4636	0.0014	0.0016	0.0015	0.0015	0.0017	0.0011
21	0.1995	0.4632	0.0035	0.0036	0.0034	0.0036	0.0038	0.0021
22	0.2019	0.4645	0.0029	0.0031	0.0031	0.0034	0.0037	0.0019
23	0.2021	0.4628	0.0032	0.0037	0.0031	0.0031	0.0037	0.0022
24	0.2025	0.4619	0.0017	0.0025	0.0024	0.0023	0.0025	0.0015
25	0.2012	0.4564	0.0033	0.0034	0.0032	0.0033	0.0036	0.0025
Ave.	0.2011	0.4620	0.0026	0.0028	0.0028	0.0029	0.0032	0.0024
Med.	0.2012	0.4624	0.0031	0.0031	0.0031	0.0032	0.0037	0.0025
st dev	0.0011	0.0025	0.0009	0.0008	0.0009	0.0009	0.0010	0.0009
Min.	0.1989	0.4564	0.0013	0.0013	0.0014	0.0014	0.0016	0.0010
Max.	0.2039	0.4671	0.0039	0.0038	0.0040	0.0040	0.0045	0.0057



3.4 Data Set 2, 70°C, 20mA (Chromaticity Shift)

No.	u _v	v _v	KRPDWLFLW6KIWXV					
	0hr(Initial)		1000hrs	2000hrs	3000hrs	4000hrs	5000hrs	6000hrs
1	0.2017	0.456	0.0035	0.0036	0.0035	0.0039	0.0042	0.0035
2	0.2021	0.4604	0.0011	0.0009	0.0011	0.0011	0.0011	0.0010
3	0.2004							

3.6 Data Set 3, 85°C, 20mA (Chromaticity Shift)

No.	u _v	v _v	KRPDWLFLW6KIWX¶¶					
	0hr(Initial)		1000hrs	2000hrs	3000hrs	4000hrs	5000hrs	6000hrs
1	0.1997	0.4665	0.0018	0.0009	0.0021	0.0021	0.0021	0.0022
2	0.1982	0.4639	0.0004	0.0004	0.0002	0.0001	0.0004	0.0001
3	0.2005	0.4639	0.0004	0.0010	0.0007	0.0006	0.0007	0.0005
4	0.1991	0.4601	0.0002	0.0003	0.0007	0.0009	0.0005	0.0007
5	0.2007	0.467	0.0007	0.0005	0.0003	0.0003	0.0003	0.0009
6	0.1983	0.4674	0.0029	0.0030	0.0029	0.0027	0.0031	0.0008
7	0.1988	0.4632	0.0002	0.0009	0.0007	0.0009	0.0005	0.0008
8	0.1994	0.4627	0.0004	0.0009	0.0009	0.0010	0.0012	0.0007
9	0.1989	0.4635	0.0004	0.0005	0.0004	0.0018	0.0007	0.0008
10	0.2003	0.4604	0.0036	0.0035	0.0038	0.0034	0.0033	0.0022
11	0.2007	0.4607	0.0011	0.0031	0.0013	0.0013	0.0013	0.0015
12	0.2032	0.4692	0.0022	0.0031	0.0028	0.0025	0.0026	0.0019
13	0.2015	0.4598	0.0036	0.0034	0.0035	0.0032	0.0036	0.0020
14	0.2002	0.4611	0.0032	0.0031	0.0033	0.0031	0.0034	0.0024
15	0.2002	0.4631	0.0036	0.0015	0.0016	0.0017	0.0017	0.0027
16	0.2003	0.4599	0.0035	0.0033	0.0034	0.0033	0.0036	0.0017
17	0.1997	0.4615	0.0015	0.0016	0.0014	0.0012	0.0013	0.0011
18	0.2018	0.4626	0.0038	0.0040	0.0040	0.0039	0.0041	0.0020
19	0.2021	0.4613	0.0039	0.0040	0.0038	0.0036	0.0039	0.0021
20	0.2004	0.4577	0.0016	0.0037	0.0045	0.0045	0.0047	0.0026
21	0.2016	0.4606	0.0028	0.0032	0.0035	0.0038	0.0036	0.0013
22	0.1994	0.4619	0.0010	0.0020	0.0022	0.0020	0.0021	0.0009
23	0.2006	0.4609	0.0035	0.0033	0.0035	0.0033	0.0036	0.0006
24	0.201	0.4567	0.0036	0.0033	0.0034	0.0032	0.0035	0.0018
25	0.2022	0.4606	0.0035	0.0032	0.0035	0.0033	0.0034	0.0021

Appendix B – REVISION HISTORY

Report Number	Report Date	Contents
RSZ110803501-10	2012/04/09	Original report.
RSZ110803501-10-M1	2012/04/28	Correct the typos of some titles.
RSZ110803501-10-M2	2013/02/01	Update the Logo of lab, note information on page 1. Remove the inappropriate description in section 1.2 and 1.3. Correct typos in section 1.6. Update part of border, font and shading. Add unit for forward voltage and life time.
RSZ110803501-10-M3	2013/05/27	A foot note is added in the first page.
RSZ110803501-10-M4	2019/01/12	Update the Logo and address of lab on the Page1&3 Update Company name and address on page 1. Add DUT Characteristics on page 3 according to the latest ENERGY STAR Requirements.

*****END OF REPORT*****