

DATA SHEET

Project No.	<u>6012-001956-02</u>	Test by	<u>Vincent Deng</u>
Applicant	<u>APT Electronics Ltd.</u>	Test Date	<u>8/22/2012</u>
Model No.	<u>3535</u>	Standard/Method	<u>LM80-08</u>

Test Results Summary

Test Item	Lm-80 Required Temperature		Specified Temperature
	55°C	85°C	105°C
Number of LED tested	30	30	30
Drive Current (If)	350mA	350mA	350mA
Actual Case Temp. (Ts)	54.7°C	84.8°C	104.5°C
Actual Ambient Temp. (Ta)	54.0°C	83.8°C	103.2°C
$\Delta(TS-TA)$	0.7°C	1.0°C	1.3°C
Actual relative humidity			
Average Lumen Maintenance at 6,000 hours			
Average Chromaticity Shift ($\Delta u'v'$) at 6,000 hours			

Case temperature: 85°C

CCT: 3000K
Actual case temperature: 84.8°C
Actual ambient temperature: 83.8°C
Drive current: If =350 mA
Measurement current: If =350 mA

No.	Φ (lm) Vf (V)		Φ (lm) & maintenance (%)												
	0h (Initial)	500h	%	1000h	%	2000h	%	3000h	%	4000h	%	5000h	%	6000h	%
31	84.0	3.011	83.9	100.0%	84.2	100.3%	84.3	100.4%							
32	85.8	2.999	86.0	100.2%	86.0	100.1%	86.3	100.5%							
33	85.8	2.964	86.1	100.4%	86.2	100.5%	86.3	100.7%							
34	85.0	3.060	85.4	100.6%	85.3	100.4%	85.6	100.8%							
35	83.2	3.020	83.5	100.4%	83.7	100.6%	84.0	100.9%							
36	82.7	3.016	82.9	100.3%	83.1	100.5%	83.5	101.0%							
37	84.4	3.008	84.8	100.4%	85.1	100.8%	85.1	100.7%							
38	83.8	3.035	84.3	100.7%	84.5	100.9%	84.8	101.2%							
39	87.9	3.041	88.3	100.4%	88.7	100.9%	88.7	100.9%							
40	85.5	3.022	86.0	100.5%	86.2	100.7%	86.0	100.6%							
41	87.7	3.023	88.3	100.7%	88.1	100.5%	88.1	100.5%							
42	86.8	3.039	87.0	100.3%	87.2	100.5%	87.5	100.8%							
43	86.2	2.998	86.5	100.4%	86.3	100.2%	86.3	100.2%							
44	82.7	3.034	83.1	100.5%	82.9	100.3%	83.0	100.4%							
45	83.2	3.044	83.2	99.9%	83.4	100.2%	83.7	100.6%							
46	84.7	3.023	85.1	100.5%	85.4	100.8%	85.4	100.8%							
47	82.6	3.008	82.5	99.9%	82.6	100.0%	82.8	100.3%							
48	86.7	3.025	87.1	100.4%	86.9	100.1%	87.0	100.2%							
49	83.7	3.019	84.3	100.7%	84.5	100.9%	84.2	100.6%							
50	85.4	2.997	85.9	100.6%	85.9	100.6%	86.2	100.9%							
51	86.5	3.005	86.7	100.2%	86.8	100.3%	87.0	100.6%							
52	81.1	3.017	82.0	101.1%	82.6	101.9%	83.0	102.4%							
53	86.1	3.042	86.3	100.2%	86.2	100.2%	86.4	100.4%							
54	83.7	3.025	84.2	100.5%	84.4	100.8%	84.5	101.0%							
55	84.0	3.034	83.5	99.4%	83.4	99.3%	84.3	100.3%							
56	86.7	3.003	87.2	100.6%	87.0	100.3%	86.7	100.0%							
57	84.8	3.017	85.1	100.3%	85.2	100.4%	85.1	100.3%							
58	85.6	3.025	85.7	100.2%	80.1	93.5%	81.9	95.6%							
59	82.2	3.037	82.6	100.5%	82.8	100.7%	83.1	101.1%							
60	85.2	2.999	85.2	100.0%	85.5	100.3%	85.4	100.2%							
Average	84.8	3.020	85.1	100.4%	85.0	100.2%	85.2	100.5%							
Median	84.9	3.021	85.2	100.4%	85.2	100.4%	85.2	100.6%							
σ	1.7	0.019	1.7	0.3%	1.9	1.3%	1.7	1.0%							
Max.	87.9	3.060	88.3	101.1%	88.7	101.9%	88.7	102.4%							
Min.	81.1	2.964	82.0	99.4%	80.1	93.5%	81.9	95.6%							

