

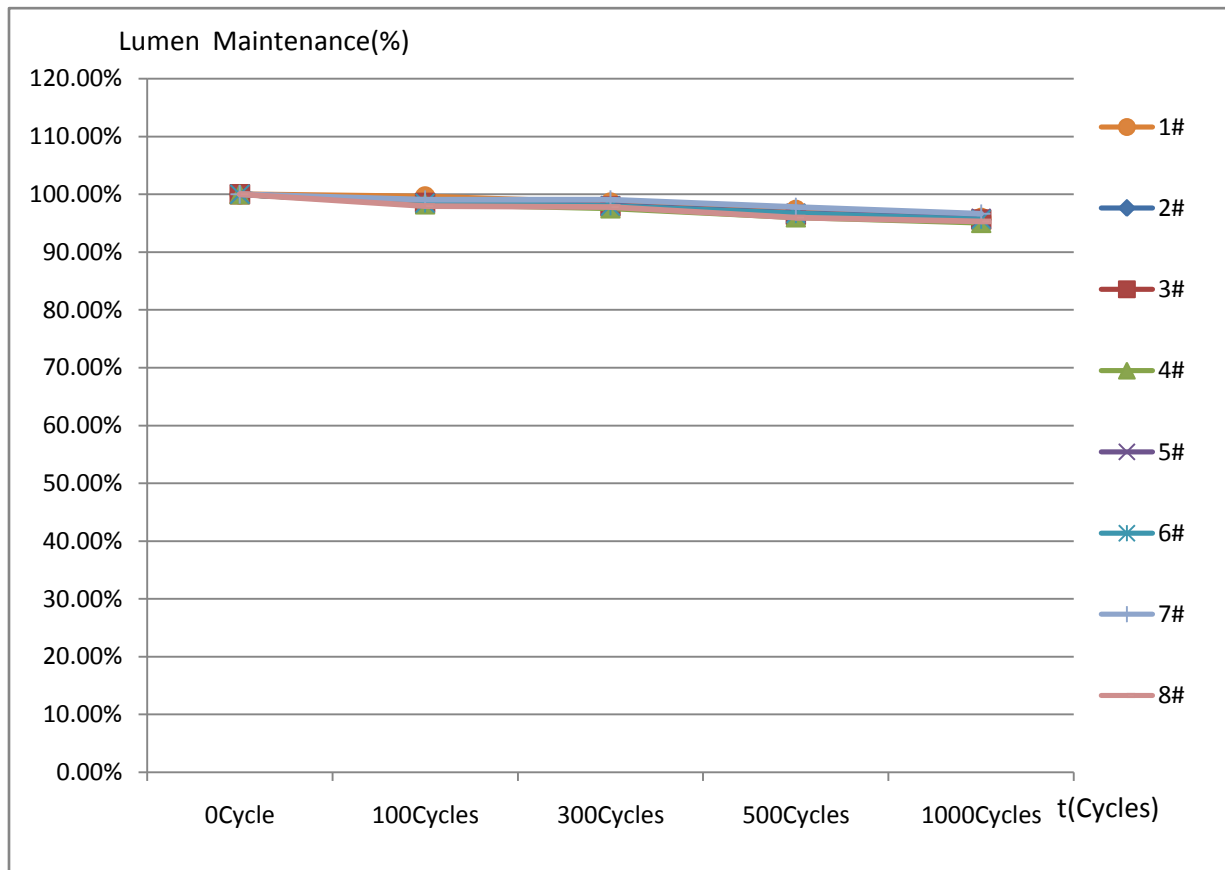
检测报告(内部)

报告编号:LAB1812317-05

第 1 页共 6 页

1. 客户名称:NPI/杨涛
2. 样品编号:1#~8#
3. 产品规格/型号:RF-FT5FW2K68-T5-B/SC17-181205802
4. 检测时间:2018. 12. 30~2019. 01. 25
5. 检测设备: LED阵列快速测试系统(G118471CA833115); (两箱式)高低温冲击试验箱(40025)
 FLUKE万用表(27500022WS); DSX500光学电子显微镜(4B43960);
6. 环境条件:(22~28)℃, (30~70)%RH
7. 检测依据标准:环境试验 第2部分: 试验方法 试验N: 温度变化试验 GB/T 2423.22-2012
 LED的测量 CIE127: 2007
8. 检测项目: 冷热冲击试验
9. 检测条件: -40℃(15min)~100℃(15min), 转换时间10s, 试验时间1000Cycles, 测试电流20mA,
 积分球2π测试, 测试点: 0cycles, 100cycles, 300cycles, 500cycles, 1000cycles

Φ(1m) 试验变化图



检测: 张东杰 2019. 1. 25 审核: 杨礼望 2019. 02. 23 批准: 李敏 2019. 02. 26

检测报告(内部)

报告编号:LAB1812317-05

第 4 页共 6 页

序号	Φ (lm)					Lumen Maintenance (%)				
	0Cycle	100Cycles	300Cycles	500Cycles	1000Cycles	0Cycle	100Cycles	300Cycles	500Cycles	1000Cycles
1#	144.50	143.90	142.40	140.60	138.60	100.00%	99.58%	98.55%	97.30%	95.92%
2#	153.90	151.50	150.70	148.40	147.10	100.00%	98.44%	97.92%	96.43%	95.58%
3#	153.10	150.80	149.90	147.70	146.40	100.00%	98.50%	97.91%	96.47%	95.62%
4#	155.50	152.80	151.70	149.30	147.80	100.00%	98.26%	97.56%	96.01%	95.05%
5#	153.20	150.90	150.20	148.20	146.80	100.00%	98.50%	98.04%	96.74%	95.82%
6#	155.40	153.00	152.20	150.20	148.60	100.00%	98.46%	97.94%	96.65%	95.62%
7#	152.80	151.40	151.40	149.40	147.60	100.00%	99.08%	99.08%	97.77%	96.60%
8#	150.30	147.20	147.00	144.20	143.20	100.00%	97.94%	97.80%	95.94%	95.28%
Max	155.50	153.00	152.20	150.20	148.60	100.00%	99.58%	99.08%	97.77%	96.60%
Min	144.50	143.90	142.40	140.60	138.60	100.00%	97.94%	97.56%	95.94%	95.05%
Avg	152.34	150.19	149.44	147.25	145.76	100.00%	98.60%	98.10%	96.66%	95.69%

序号	VF (V)					ΔVF/VF (%)			
	0Cycle	100Cycles	300Cycles	500Cycles	1000Cycles	100Cycles	300Cycles	500Cycles	1000Cycles
1#	70.392	70.642	70.588	70.577	70.501	0.36%	0.28%	0.26%	0.15%
2#	70.621	70.708	70.751	70.642	70.719	0.12%	0.18%	0.03%	0.14%
3#	70.860	70.980	71.034	70.915	71.002	0.17%	0.25%	0.08%	0.20%
4#	70.882	70.991	71.045	70.926	71.013	0.15%	0.23%	0.06%	0.18%
5#	70.904	71.023	71.067	70.947	71.034	0.17%	0.23%	0.06%	0.18%
6#	70.806	70.915	70.969	70.849	70.947	0.15%	0.23%	0.06%	0.20%
7#	70.991	71.121	71.176	71.045	71.143	0.18%	0.26%	0.08%	0.21%
8#	70.697	70.719	70.871	70.653	70.838	0.03%	0.25%	-0.06%	0.20%

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报告编号:LAB1812317-05

第 5 页共 6 页

序号	IF(mA)				
	0Cycle	100Cycles	300Cycles	500Cycles	1000Cycles
1#	19.77	19.76	19.78	19.80	19.75
2#	19.78	19.76	19.78	19.81	19.75
3#	19.79	19.76	19.78	19.81	19.75
4#	19.79	19.76	19.78	19.81	19.75
5#	19.79	19.76	19.78	19.81	19.75
6#	19.79	19.76	19.78	19.81	19.75
7#	19.80	19.76	19.78	19.81	19.75
8#	19.80	19.76	19.78	19.81	19.75

序号	x					Δx			
	0Cycle	100Cycles	300Cycles	500Cycles	1000Cycles	100Cycles	300Cycles	500Cycles	1000Cycles
1#	0.4624	0.4625	0.4619	0.4614	0.4607	0.0001	-0.0005	-0.0010	-0.0017
2#	0.4660	0.4658	0.4653	0.4647	0.4641	-0.0002	-0.0007	-0.0013	-0.0019
3#	0.4655	0.4653	0.4648	0.4642	0.4636	-0.0002	-0.0007	-0.0013	-0.0019
4#	0.4640	0.4637	0.4630	0.4625	0.4619	-0.0003	-0.0010	-0.0015	-0.0021
5#	0.4634	0.4630	0.4628	0.4622	0.4618	-0.0004	-0.0006	-0.0012	-0.0016
6#	0.4658	0.4656	0.4651	0.4645	0.4640	-0.0002	-0.0007	-0.0013	-0.0018
7#	0.4643	0.4645	0.4643	0.4640	0.4635	0.0002	0.0000	-0.0003	-0.0008
8#	0.4626	0.4618	0.4617	0.4608	0.4607	-0.0008	-0.0009	-0.0018	-0.0019

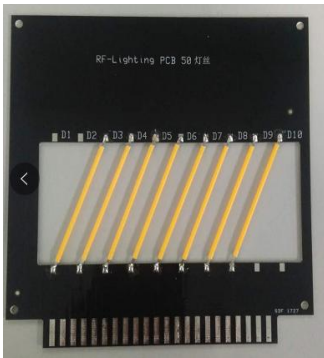
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序号	y					△y			
	0Cycle	100Cycles	300Cycles	500Cycles	1000Cycles	100Cycles	300Cycles	500Cycles	1000Cycles
1#	0.4125	0.4130	0.4127	0.4126	0.4124	0.0005	0.0002	0.0001	-0.0001
2#	0.4142	0.4143	0.4142	0.4139	0.4140	0.0001	0.0000	-0.0003	-0.0002
3#	0.4141	0.4141	0.4141	0.4137	0.4139	0.0000	0.0000	-0.0004	-0.0002
4#	0.4136	0.4136	0.4135	0.4132	0.4132	0.0000	-0.0001	-0.0004	-0.0004
5#	0.4137	0.4137	0.4137	0.4134	0.4134	0.0000	0.0000	-0.0003	-0.0003
6#	0.4145	0.4145	0.4145	0.4141	0.4143	0.0000	0.0000	-0.0004	-0.0002
7#	0.4134	0.4135	0.4135	0.4132	0.4132	0.0001	0.0001	-0.0002	-0.0002
8#	0.4135	0.4132	0.4135	0.4130	0.4134	-0.0003	0.0000	-0.0005	-0.0001

单颗LED判定基准:

项目	min	max
Lumen Maintenance (%)	90%	110%
△VF/VF (%)	-6%	6%
△x	-0.01	0.01
△y	-0.015	0.015
外观无胶裂, 变黄, 发黑等现象		

经过1000cycles冷热冲击试验, 全部样品各项参数均在标准范围内;
外观描述: 样品外观正常, 如下图所示



试验结果: 合格

备注: 检测结果只对本次样品负责;

.....结束.....