

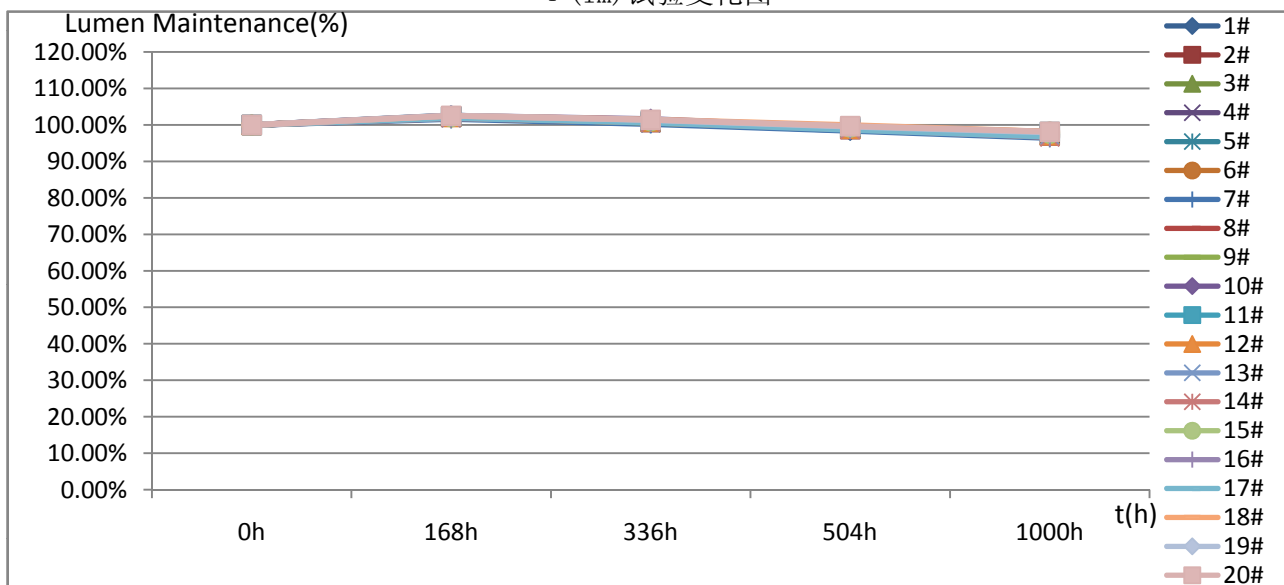
检测报告(简版)

报告编号: LAB0205203-11

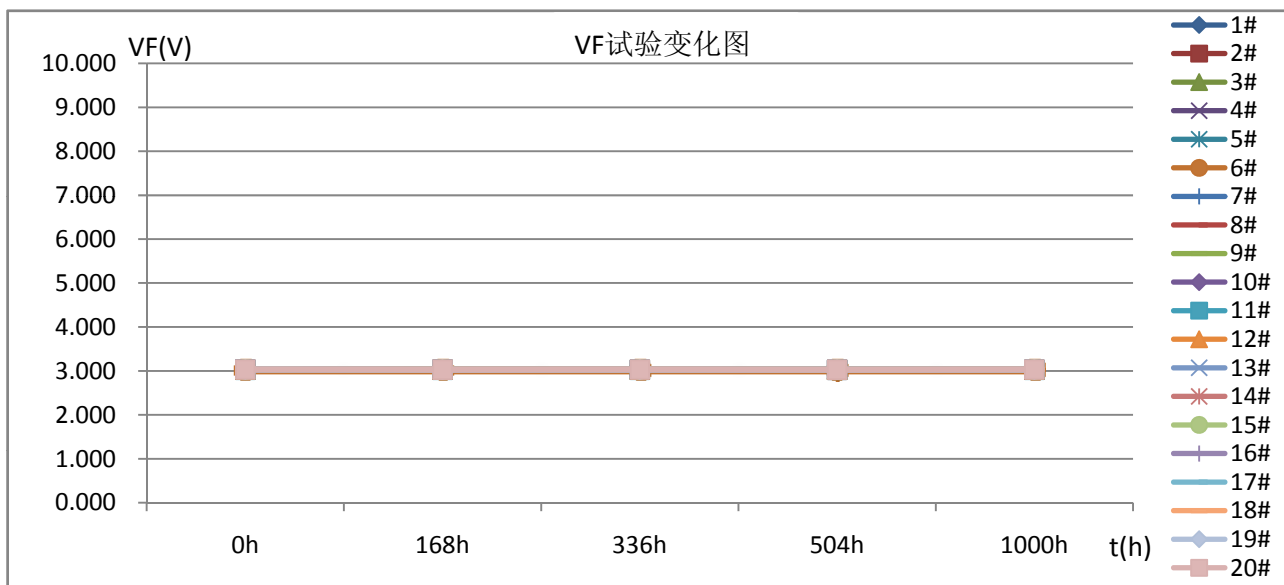
第 1 页共 6 页

1. 客户名称:深圳瑞丰_通用封装事业部_照明事业部_产品技术一部_中小功率产品组/曹昌鹏
2. 样品编号:1#~20#
3. 产品规格(型号)/批次:RF-40QI32DS-FH-N-Y/YW20200515-01
4. 检测时间:2020. 6. 16~2020. 7. 29
5. 检测设备: HAAS-1200快速光谱辐射计(G113724CS1321116); LED-专用精密光电烤箱(SZ12092796);
FLUKE万用表(27500021WS); 回流焊机(N0842010); 电热鼓风干燥箱(TST1005028)
显微镜(MT 4X); DC POWER SUPPLY (020178731)
6. 环境条件:(22~28) °C, (30~70) %RH
7. 检测依据标准: 电工电子产品环境试验 第2部分: 试验方法 试验B: 高温 GB/T 2423.2-2008,
LED的测量 CIE127: 2007
8. 检测项目: 高温老化试验
9. 检测条件: 预处理: 125°C烘烤2H, 回流焊1次(参照SMT回流焊说明WI-R00-004文件)
85°C, 老化时间1000H, 老化电流72mA, 测试电流72mA,
积分球2π测试, 测试点: 0h, 168h, 336h, 504h, 1000h

Φ (1m) 试验变化图

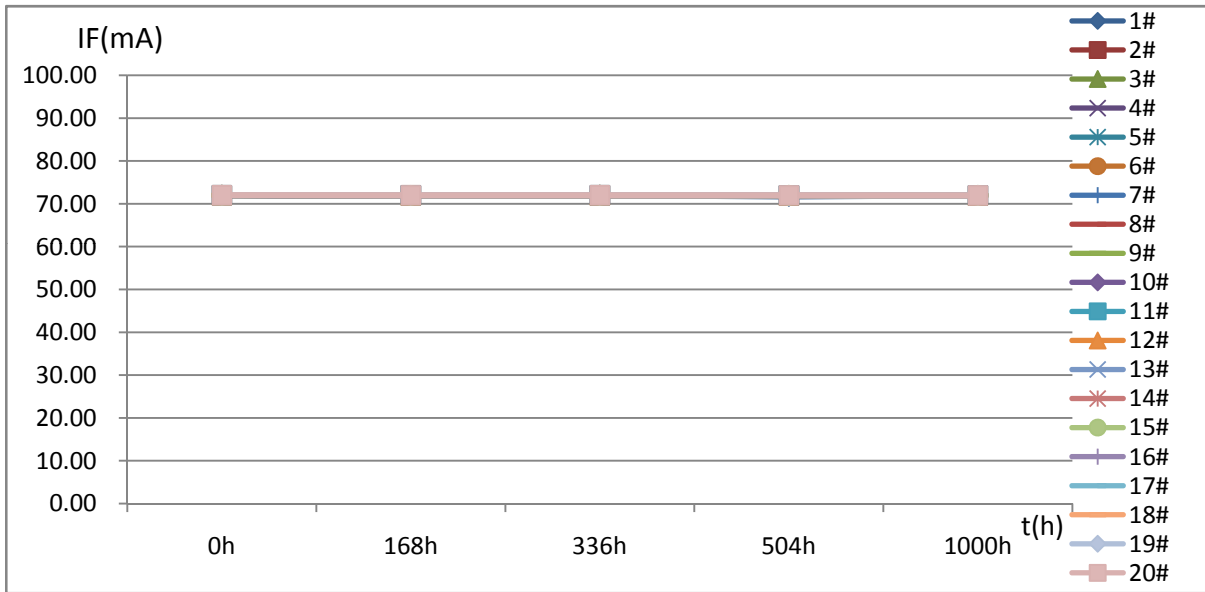


VF试验变化图

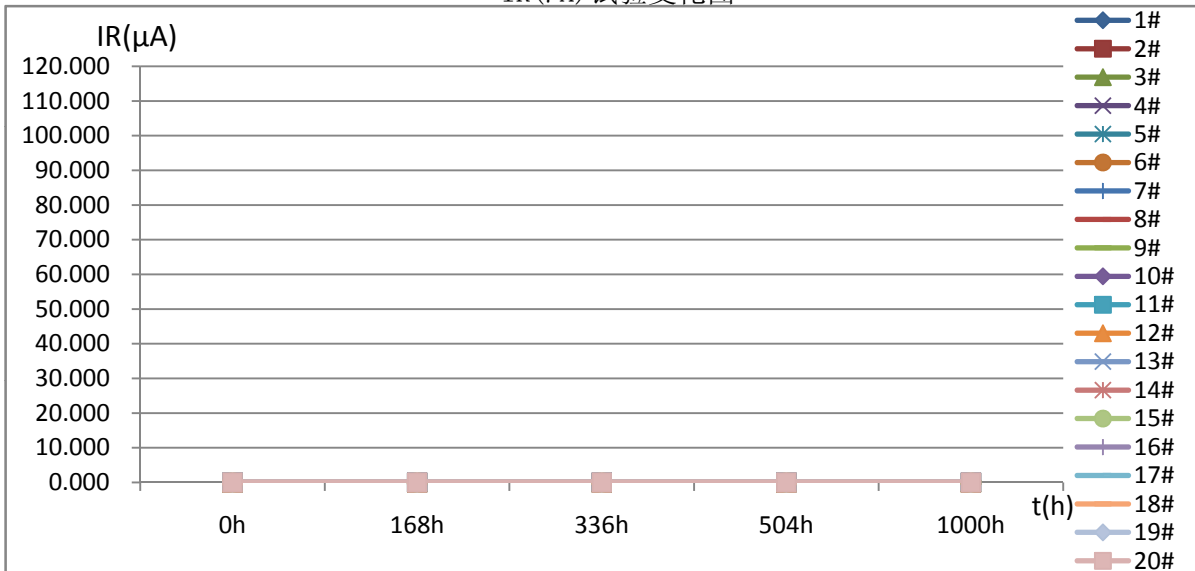


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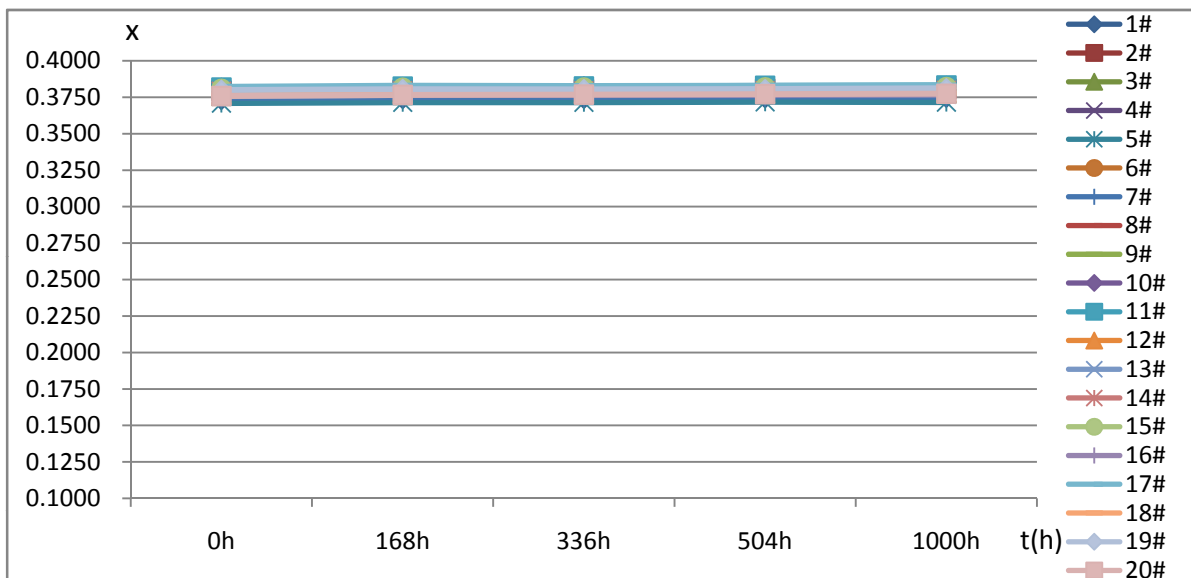
实测电流变化图



IR(μA) 试验变化图



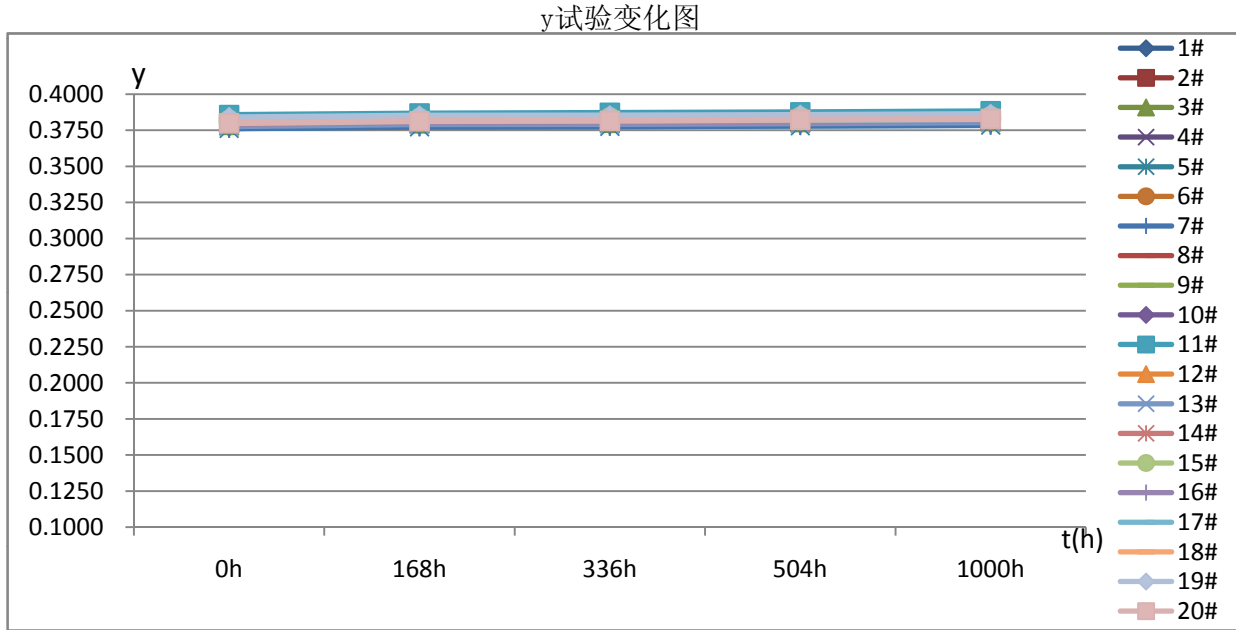
x 试验变化图



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序号	Φ (1m)					Lumen Maintenance (%)				
	0h	168h	336h	504h	1000h	0h	168h	336h	504h	1000h
1#	24.79	25.44	24.95	24.41	24.10	100.00%	102.62%	100.65%	98.47%	97.22%
2#	24.56	25.14	24.75	24.28	23.86	100.00%	102.36%	100.77%	98.86%	97.15%
3#	24.72	25.28	24.94	24.55	24.07	100.00%	102.27%	100.89%	99.31%	97.37%
4#	24.71	25.31	24.94	24.55	24.14	100.00%	102.43%	100.93%	99.35%	97.69%
5#	25.20	25.73	25.35	24.91	24.41	100.00%	102.10%	100.60%	98.85%	96.87%
6#	24.95	25.50	25.26	24.82	24.48	100.00%	102.20%	101.24%	99.48%	98.12%
7#	24.60	25.00	24.66	24.21	23.72	100.00%	101.63%	100.24%	98.41%	96.42%
8#	24.63	25.09	24.81	24.35	23.88	100.00%	101.87%	100.73%	98.86%	96.95%
9#	24.80	25.34	24.95	24.58	24.11	100.00%	102.18%	100.60%	99.11%	97.22%
10#	24.76	25.39	25.16	24.59	24.11	100.00%	102.54%	101.62%	99.31%	97.37%
11#	25.13	25.70	25.42	24.99	24.65	100.00%	102.27%	101.15%	99.44%	98.09%
12#	24.92	25.46	25.15	24.66	24.21	100.00%	102.17%	100.92%	98.96%	97.15%
13#	24.66	25.13	24.87	24.41	23.98	100.00%	101.91%	100.85%	98.99%	97.24%
14#	24.77	25.28	24.94	24.48	23.95	100.00%	102.06%	100.69%	98.83%	96.69%
15#	24.53	25.07	24.79	24.37	23.95	100.00%	102.20%	101.06%	99.35%	97.64%
16#	24.21	24.71	24.41	23.94	23.44	100.00%	102.07%	100.83%	98.88%	96.82%
17#	24.49	24.96	24.65	24.16	23.70	100.00%	101.92%	100.65%	98.65%	96.77%
18#	24.95	25.58	25.32	24.93	24.48	100.00%	102.53%	101.48%	99.92%	98.12%
19#	24.84	25.48	25.17	24.73	24.33	100.00%	102.58%	101.33%	99.56%	97.95%
20#	24.71	25.33	25.06	24.63	24.25	100.00%	102.51%	101.42%	99.68%	98.14%
Max	25.20	25.73	25.42	24.99	24.65	100.00%	102.62%	101.62%	99.92%	98.14%
Min	24.21	24.71	24.41	23.94	23.44	100.00%	101.63%	100.24%	98.41%	96.42%
Avg	24.75	25.30	24.98	24.53	24.09	100.00%	102.22%	100.93%	99.11%	97.35%

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序号	VF (V)					△VF (V)			
	0h	168h	336h	504h	1000h	168h	336h	504h	1000h
1#	3.028	3.029	3.026	3.023	3.027	0.001	-0.002	-0.005	-0.001
2#	3.031	3.031	3.029	3.027	3.029	0.000	-0.002	-0.004	-0.002
3#	3.029	3.029	3.027	3.026	3.028	0.000	-0.002	-0.003	-0.001
4#	3.029	3.028	3.027	3.025	3.027	-0.001	-0.002	-0.004	-0.002
5#	3.029	3.029	3.026	3.024	3.026	0.000	-0.003	-0.005	-0.003
6#	3.037	3.035	3.035	3.032	3.036	-0.002	-0.002	-0.005	-0.001
7#	3.039	3.036	3.036	3.034	3.037	-0.003	-0.003	-0.005	-0.002
8#	3.028	3.026	3.026	3.025	3.028	-0.002	-0.002	-0.003	0.000
9#	3.033	3.032	3.032	3.030	3.032	-0.001	-0.001	-0.003	-0.001
10#	3.033	3.031	3.030	3.028	3.032	-0.002	-0.003	-0.005	-0.001
11#	3.028	3.027	3.027	3.026	3.028	-0.001	-0.001	-0.002	0.000
12#	3.032	3.031	3.030	3.029	3.031	-0.001	-0.002	-0.003	-0.001
13#	3.037	3.034	3.035	3.032	3.035	-0.003	-0.002	-0.005	-0.002
14#	3.032	3.031	3.031	3.030	3.032	-0.001	-0.001	-0.002	0.000
15#	3.034	3.032	3.033	3.032	3.033	-0.002	-0.001	-0.002	-0.001
16#	3.028	3.026	3.026	3.025	3.027	-0.002	-0.002	-0.003	-0.001
17#	3.033	3.031	3.032	3.030	3.032	-0.002	-0.001	-0.003	-0.001
18#	3.034	3.032	3.032	3.030	3.032	-0.002	-0.002	-0.004	-0.002
19#	3.032	3.030	3.030	3.028	3.031	-0.002	-0.002	-0.004	-0.001
20#	3.032	3.031	3.032	3.030	3.032	-0.001	0.000	-0.002	0.000

序号	IF (mA)				
	0h	168h	336h	504h	1000h
1#	72.02	71.94	72.01	71.71	71.97
2#	72.03	72.02	72.01	72.00	71.97
3#	72.03	71.99	72.01	72.02	71.98
4#	72.02	71.99	72.01	71.99	72.00
5#	72.02	71.98	72.01	71.98	72.00
6#	72.03	71.98	72.01	71.98	71.98
7#	72.02	71.98	72.01	71.98	71.97
8#	72.02	71.98	72.01	71.98	71.98
9#	72.02	71.99	72.01	71.99	71.97
10#	72.02	71.98	72.01	71.99	71.97
11#	72.02	71.98	72.01	71.98	71.97
12#	72.02	71.99	72.01	71.99	71.97
13#	72.02	71.99	72.01	71.99	71.97
14#	72.02	71.99	72.01	72.00	71.97
15#	72.02	71.99	72.01	72.00	71.97
16#	72.02	71.99	72.01	72.00	71.97
17#	72.02	72.00	72.01	72.00	71.97
18#	72.02	72.00	72.01	72.00	71.97
19#	72.02	72.00	72.01	72.00	71.97
20#	72.02	72.00	72.01	72.00	71.97

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序号	IR(μA)				
	0h	168h	336h	504h	1000h
1#	0.000	0.000	0.000	0.000	0.000
2#	0.000	0.000	0.000	0.000	0.000
3#	0.000	0.000	0.000	0.000	0.000
4#	0.000	0.000	0.000	0.000	0.000
5#	0.000	0.000	0.000	0.000	0.000
6#	0.000	0.000	0.000	0.000	0.000
7#	0.000	0.000	0.000	0.000	0.000
8#	0.000	0.000	0.000	0.000	0.000
9#	0.000	0.000	0.000	0.000	0.000
10#	0.000	0.000	0.000	0.000	0.000
11#	0.000	0.000	0.000	0.000	0.000
12#	0.000	0.000	0.000	0.000	0.000
13#	0.000	0.000	0.000	0.000	0.000
14#	0.000	0.000	0.000	0.000	0.000
15#	0.000	0.000	0.000	0.000	0.000
16#	0.000	0.000	0.000	0.000	0.000
17#	0.000	0.000	0.000	0.000	0.000
18#	0.000	0.000	0.000	0.000	0.000
19#	0.000	0.000	0.000	0.000	0.000
20#	0.000	0.000	0.000	0.000	0.000

序号	x					Δx			
	0h	168h	336h	504h	1000h	168h	336h	504h	1000h
1#	0.3732	0.3738	0.3739	0.3744	0.3747	0.0006	0.0007	0.0012	0.0015
2#	0.3796	0.3802	0.3805	0.3808	0.3809	0.0006	0.0009	0.0012	0.0013
3#	0.3759	0.3766	0.3768	0.3772	0.3777	0.0007	0.0009	0.0013	0.0018
4#	0.3772	0.3783	0.3783	0.3788	0.3791	0.0011	0.0011	0.0016	0.0019
5#	0.3710	0.3715	0.3715	0.3718	0.3716	0.0005	0.0005	0.0008	0.0006
6#	0.3782	0.3787	0.3789	0.3791	0.3793	0.0005	0.0007	0.0009	0.0011
7#	0.3746	0.3750	0.3751	0.3754	0.3752	0.0004	0.0005	0.0008	0.0006
8#	0.3770	0.3774	0.3776	0.3779	0.3781	0.0004	0.0006	0.0009	0.0011
9#	0.3766	0.3774	0.3774	0.3774	0.3779	0.0008	0.0008	0.0008	0.0013
10#	0.3813	0.3820	0.3823	0.3823	0.3826	0.0007	0.0010	0.0010	0.0013
11#	0.3816	0.3823	0.3824	0.3828	0.3831	0.0007	0.0008	0.0012	0.0015
12#	0.3770	0.3777	0.3777	0.3778	0.3782	0.0007	0.0007	0.0008	0.0012
13#	0.3757	0.3765	0.3764	0.3767	0.3770	0.0008	0.0007	0.0010	0.0013
14#	0.3791	0.3795	0.3794	0.3796	0.3798	0.0004	0.0003	0.0005	0.0007
15#	0.3808	0.3815	0.3817	0.3818	0.3820	0.0007	0.0009	0.0010	0.0012
16#	0.3763	0.3764	0.3765	0.3767	0.3768	0.0001	0.0002	0.0004	0.0005
17#	0.3821	0.3829	0.3827	0.3829	0.3831	0.0008	0.0006	0.0008	0.0010
18#	0.3766	0.3773	0.3773	0.3776	0.3779	0.0007	0.0007	0.0010	0.0013
19#	0.3800	0.3805	0.3804	0.3806	0.3811	0.0005	0.0004	0.0006	0.0011
20#	0.3758	0.3766	0.3768	0.3771	0.3774	0.0008	0.0010	0.0013	0.0016

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序号	y					△y			
	0h	168h	336h	504h	1000h	168h	336h	504h	1000h
1#	0.3777	0.3789	0.3792	0.3799	0.3805	0.0012	0.0015	0.0022	0.0028
2#	0.3800	0.3812	0.3816	0.3821	0.3826	0.0012	0.0016	0.0021	0.0026
3#	0.3787	0.3798	0.3802	0.3807	0.3815	0.0011	0.0015	0.0020	0.0028
4#	0.3815	0.3829	0.3832	0.3837	0.3844	0.0014	0.0017	0.0022	0.0029
5#	0.3764	0.3775	0.3778	0.3782	0.3787	0.0011	0.0014	0.0018	0.0023
6#	0.3836	0.3847	0.3851	0.3855	0.3860	0.0011	0.0015	0.0019	0.0024
7#	0.3763	0.3774	0.3777	0.3782	0.3785	0.0011	0.0014	0.0019	0.0022
8#	0.3801	0.3811	0.3815	0.3820	0.3826	0.0010	0.0014	0.0019	0.0025
9#	0.3808	0.3820	0.3823	0.3825	0.3832	0.0012	0.0015	0.0017	0.0024
10#	0.3842	0.3856	0.3861	0.3862	0.3868	0.0014	0.0019	0.0020	0.0026
11#	0.3856	0.3867	0.3871	0.3875	0.3882	0.0011	0.0015	0.0019	0.0026
12#	0.3805	0.3819	0.3822	0.3825	0.3832	0.0014	0.0017	0.0020	0.0027
13#	0.3778	0.3792	0.3793	0.3798	0.3805	0.0014	0.0015	0.0020	0.0027
14#	0.3796	0.3806	0.3808	0.3812	0.3817	0.0010	0.0012	0.0016	0.0021
15#	0.3823	0.3836	0.3840	0.3844	0.3848	0.0013	0.0017	0.0021	0.0025
16#	0.3795	0.3804	0.3806	0.3810	0.3814	0.0009	0.0011	0.0015	0.0019
17#	0.3804	0.3816	0.3816	0.3821	0.3826	0.0012	0.0012	0.0017	0.0022
18#	0.3810	0.3823	0.3824	0.3830	0.3836	0.0013	0.0014	0.0020	0.0026
19#	0.3840	0.3852	0.3853	0.3856	0.3863	0.0012	0.0013	0.0016	0.0023
20#	0.3799	0.3813	0.3816	0.3823	0.3829	0.0014	0.0017	0.0024	0.0030

单颗LED判定基准:

项目	min	max
Lumen Maintenance (%)	90%	110%
△VF	-0.5	0.5
△x	-0.01	0.01
△y	-0.015	0.015
IR(μA)	/	10

外观无胶裂, 变黄, 发黑等现象

经过1000h高温老化试验, 全部样品各项参数均在标准标准范围内。

外观描述: 全部样品外观正常。



试验结果: 合格。

检测结果只对本次样品负责。

.....结束.....