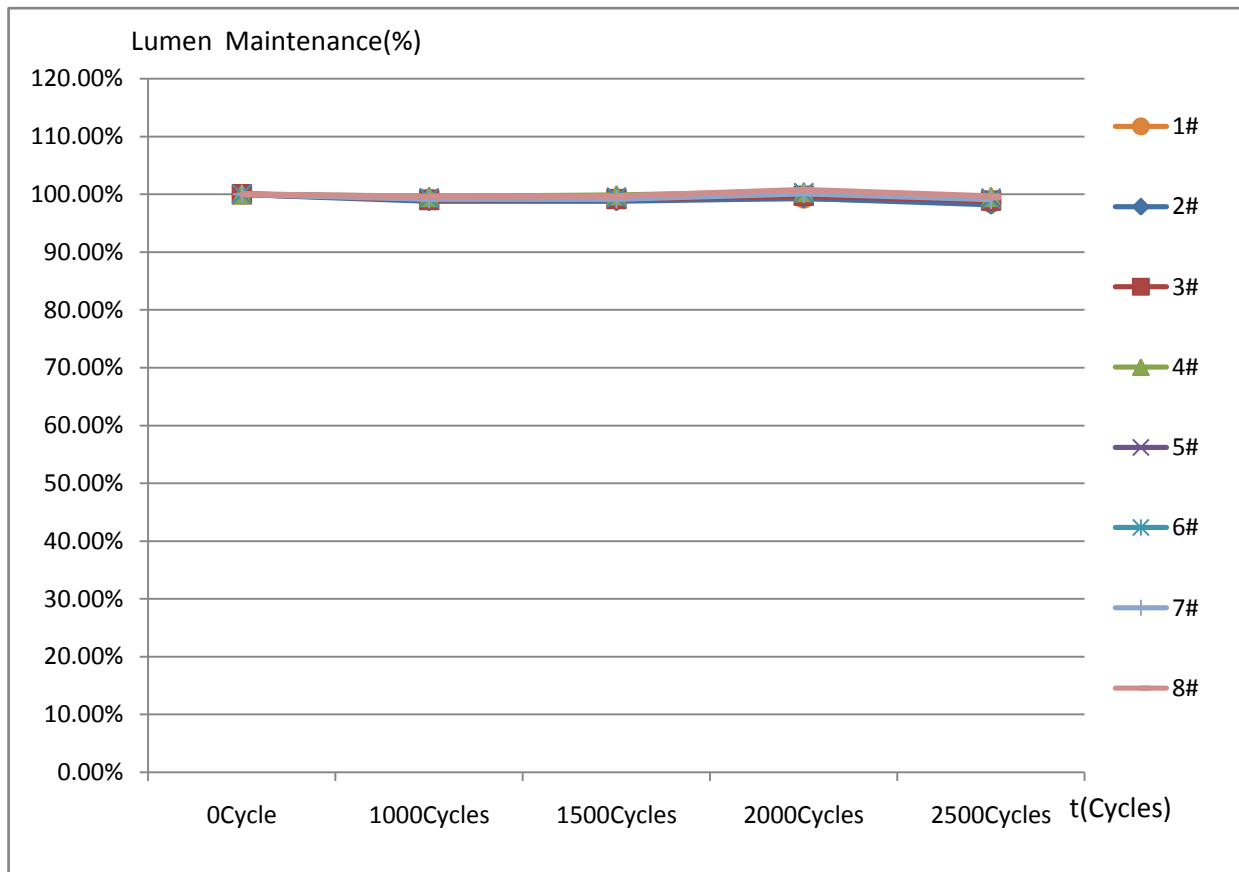


LAB1812317-04

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Φ



张东杰 2019.01.08

杨礼坚

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2019.02.13

| | Φ (lm) | | | | | Lumen Maintenance(%) | | | | |
|-----|--------|------------|------------|------------|------------|----------------------|------------|------------|------------|------------|
| | 0Cycle | 1000Cycles | 1500Cycles | 2000Cycles | 2500Cycles | 0Cycle | 1000Cycles | 1500Cycles | 2000Cycles | 2500Cycles |
| 1# | 143.10 | 141.90 | 141.90 | 142.10 | 141.00 | 100.00% | 99.16% | 99.16% | 99.30% | 98.53% |
| 2# | 151.10 | 149.30 | 149.30 | 150.10 | 148.40 | 100.00% | 98.81% | 98.81% | 99.34% | 98.21% |
| 3# | 154.60 | 153.10 | 153.30 | 154.20 | 152.90 | 100.00% | 99.03% | 99.16% | 99.74% | 98.90% |
| 4# | 153.70 | 153.00 | 153.40 | 154.30 | 153.00 | 100.00% | 99.54% | 99.80% | 100.39% | 99.54% |
| 5# | 154.10 | 153.20 | 153.30 | 154.50 | 153.10 | 100.00% | 99.42% | 99.48% | 100.26% | 99.35% |
| 6# | 152.80 | 151.80 | 152.00 | 153.10 | 151.50 | 100.00% | 99.35% | 99.48% | 100.20% | 99.15% |
| 7# | 154.30 | 153.00 | 153.00 | 154.50 | 152.90 | 100.00% | 99.16% | 99.16% | 100.13% | 99.09% |
| 8# | 147.40 | 146.80 | 146.90 | 148.50 | 146.90 | 100.00% | 99.59% | 99.66% | 100.75% | 99.66% |
| Max | 154.60 | 153.20 | 153.40 | 154.50 | 153.10 | 100.00% | 99.59% | 99.80% | 100.75% | 99.66% |
| Min | 143.10 | 141.90 | 141.90 | 142.10 | 141.00 | 100.00% | 98.81% | 98.81% | 99.30% | 98.21% |
| Avg | 151.39 | 150.26 | 150.39 | 151.41 | 149.96 | 100.00% | 99.26% | 99.34% | 100.01% | 99.06% |

| | VF (V) | | | | | | | | |
|----|--------|------------|------------|------------|------------|------------|------------|------------|------------|
| | 0Cycle | 1000Cycles | 1500Cycles | 2000Cycles | 2500Cycles | 1000Cycles | 1500Cycles | 2000Cycles | 2500Cycles |
| 1# | 70.534 | 70.599 | 70.632 | 70.555 | 70.632 | 0.09% | 0.14% | 0.03% | 0.14% |
| 2# | 71.023 | 71.045 | 71.100 | 71.078 | 71.100 | 0.03% | 0.11% | 0.08% | 0.11% |
| 3# | 70.893 | 70.947 | 71.002 | 70.969 | 71.002 | 0.08% | 0.15% | 0.11% | 0.15% |
| 4# | 71.013 | 71.067 | 71.121 | 71.089 | 71.121 | 0.08% | 0.15% | 0.11% | 0.15% |
| 5# | 70.860 | 70.904 | 70.947 | 70.926 | 70.958 | 0.06% | 0.12% | 0.09% | 0.14% |
| 6# | 70.773 | 70.828 | 70.871 | 70.849 | 70.882 | 0.08% | 0.14% | 0.11% | 0.15% |
| 7# | 70.795 | 70.838 | 70.893 | 70.849 | 70.893 | 0.06% | 0.14% | 0.08% | 0.14% |
| 8# | 70.926 | 70.980 | 71.034 | 70.991 | 71.034 | 0.08% | 0.15% | 0.09% | 0.15% |

| | IF (mA) | | | | |
|----|---------|------------|------------|------------|------------|
| | 0Cycle | 1000Cycles | 1500Cycles | 2000Cycles | 2500Cycles |
| 1# | 19.77 | 19.76 | 19.75 | 19.76 | 19.78 |
| 2# | 19.78 | 19.76 | 19.75 | 19.76 | 19.78 |
| 3# | 19.80 | 19.76 | 19.75 | 19.77 | 19.78 |
| 4# | 19.79 | 19.76 | 19.77 | 19.77 | 19.78 |
| 5# | 19.79 | 19.76 | 19.76 | 19.77 | 19.78 |
| 6# | 19.79 | 19.76 | 19.76 | 19.77 | 19.78 |
| 7# | 19.79 | 19.76 | 19.76 | 19.79 | 19.78 |
| 8# | 19.78 | 19.76 | 19.76 | 19.79 | 19.78 |

| | x | | | | | | | | |
|----|--------|------------|------------|------------|------------|------------|------------|------------|------------|
| | 0Cycle | 1000Cycles | 1500Cycles | 2000Cycles | 2500Cycles | 1000Cycles | 1500Cycles | 2000Cycles | 2500Cycles |
| 1# | 0.4610 | 0.4606 | 0.4607 | 0.4603 | 0.4604 | -0.0004 | -0.0003 | -0.0007 | -0.0006 |
| 2# | 0.4649 | 0.4644 | 0.4648 | 0.4646 | 0.4644 | -0.0005 | -0.0001 | -0.0003 | -0.0005 |
| 3# | 0.4637 | 0.4634 | 0.4635 | 0.4634 | 0.4632 | -0.0003 | -0.0002 | -0.0003 | -0.0005 |
| 4# | 0.4621 | 0.4620 | 0.4622 | 0.4622 | 0.4621 | -0.0001 | 0.0001 | 0.0001 | 0.0000 |
| 5# | 0.4650 | 0.4645 | 0.4647 | 0.4646 | 0.4644 | -0.0005 | -0.0003 | -0.0004 | -0.0006 |
| 6# | 0.4660 | 0.4657 | 0.4658 | 0.4657 | 0.4657 | -0.0003 | -0.0002 | -0.0003 | -0.0003 |
| 7# | 0.4646 | 0.4642 | 0.4643 | 0.4642 | 0.4642 | -0.0004 | -0.0003 | -0.0004 | -0.0004 |
| 8# | 0.4617 | 0.4616 | 0.4616 | 0.4617 | 0.4616 | -0.0001 | -0.0001 | 0.0000 | -0.0001 |

| | y | | | | | | | | |
|----|--------|------------|------------|------------|------------|------------|------------|------------|------------|
| | 0Cycle | 1000Cycles | 1500Cycles | 2000Cycles | 2500Cycles | 1000Cycles | 1500Cycles | 2000Cycles | 2500Cycles |
| 1# | 0.4119 | 0.4119 | 0.4120 | 0.4119 | 0.4118 | 0.0000 | 0.0001 | 0.0000 | -0.0001 |
| 2# | 0.4145 | 0.4143 | 0.4146 | 0.4146 | 0.4144 | -0.0002 | 0.0001 | 0.0001 | -0.0001 |
| 3# | 0.4139 | 0.4138 | 0.4140 | 0.4140 | 0.4140 | -0.0001 | 0.0001 | 0.0001 | 0.0001 |
| 4# | 0.4130 | 0.4131 | 0.4133 | 0.4133 | 0.4133 | 0.0001 | 0.0003 | 0.0003 | 0.0003 |
| 5# | 0.4146 | 0.4147 | 0.4148 | 0.4149 | 0.4147 | 0.0001 | 0.0002 | 0.0003 | 0.0001 |
| 6# | 0.4139 | 0.4138 | 0.4141 | 0.4140 | 0.4139 | -0.0001 | 0.0002 | 0.0001 | 0.0000 |
| 7# | 0.4143 | 0.4143 | 0.4144 | 0.4143 | 0.4143 | 0.0000 | 0.0001 | 0.0000 | 0.0000 |
| 8# | 0.4134 | 0.4136 | 0.4137 | 0.4138 | 0.4137 | 0.0002 | 0.0003 | 0.0004 | 0.0003 |

| | min | max |
|-----------------------|--------|-------|
| Lumen Maintenance (%) | 90% | 110% |
| | -6% | 6% |
| | -0.01 | 0.01 |
| | -0.015 | 0.015 |
| | | |

