| Item | | Result | Condition | Specification |
|---|---|---|---|---|

1. Illumination Performance

| | | | | | |
|---|---|---|---|---|---|
| 1 | Illumination Intensity | | 20707.0 | NA0.57 Sigma0.70 | ≧ 14000 w/m2 |
| | | | 19337.0 | NA0.50 Sigma0.70 | ≧ 13000 w/m2 |
| 2 | Illumination Uniformity | | 2.666 | NA0.57 Sigma0.70 | ≦ ± 1.0 % |
| | | | 2.835 | NA0.50 Sigma0.70 | ≦ ± 1.3 % |
| 3 | Light Integrator Accuracy | Repeatability | 0.25 | NA0.57 Sigma0.70 | ≦ ± 0.5 % |
| | | Linearity | 0.50 | | ≦ ± 0.5 % |
| | | Repeatability + Linearity | 0.75 | | ≦ ± 1.0 % |
| 4 | Masking Blade Accuracy | Total Accuracy | 55.0 | NA0.57 Sigma0.70 | ±100 um |
| 5 | Open Frame Chack | | No Dark Spot | NA0.57 Sigma0.70 | No Dark Spot |

2. Distotion

| | | | | | |
|---|---|---|---|---|---|
| 1 | Distortion | DX | 21.36 | NA0.57 Sigma0.70 | ≦ ±30 nm |
| | | DY | 21.36 | | |

3. Alignment Performance

| | | | | | |
|---|---|---|---|---|---|
| 1 | Reticle Rotation Accuracy | 6×6 Xs=10, Ys=30 | -0.14 | | ≦ ± 0.5 ppm |
| 2 | Reticle Rotation Repeatability | 6×6 Xs=10, Ys=30 | 0.53 | | R≦ 1.0 ppm |
| 3 | Auto Alignment Accuracy | X | 31.8 | OAS MODE-1 (BB) | Iml + 3Sigma≦40 nm |
| | | Y | 38.0 | | |
| 4 | Baseline Measurment Repeatability | X | 2.6 | OAS MODE-1 | 3sigma ≦ 10 nm |
| | | Y | 4.0 | | |

4. Auto Focus Performance

| | | | | | |
|---|---|---|---|---|---|
| 1 | ALFC | FOCUS | 40 | | 3Sigma ≦ 60 nm |
| | | TILT X | 0.57 | | 3Sigma ≦ 3 ppm |
| 2 | Chuck Flatness | TTV | 0.92 | | ≦ 2 um |

| Item | | | Result | Condition | Specification |
|---|---|---|---|---|---|

5. XY-Stage Performance

| | | | | | |
|---|---|---|---|---|---|
| 1 | Stepping Repeatability | X | 7.6 | | 3Sigma ≦ 20 nm |
| | | Y | 10.9 | | |
| 2 | Stepping Accuracy | X1－X | 7.1 | | 3Sigma ≦ 25 nm |
| | | X2－X | 6.0 | | |
| | | X3－X | 6.0 | | |
| | | X1－Y | 11.1 | | |
| | | X2－Y | 10.3 | | |
| | | X3－Y | 10.3 | | |
| | | Y1－X | 10.5 | | |
| | | Y2－X | 10.2 | | |
| | | Y3－X | 10.1 | | |
| | | Y1－Y | 8.7 | | |
| | | Y2－Y | 8.9 | | |
| | | Y3－Y | 8.7 | | |
| 3 | Orthogonality | | -0.02 | | ± 0.3 ppm |
| 4 | Magnification | X | 0.00 | | ± 0.3 ppm |
| | | Y | 0.00 | | |

6. Pre Alignment Performance

| | | | | | |
|---|---|---|---|---|---|
| 1 | Mechanical Pre-Alignment Accuracy | X | 2.8 | | 3Sigma ≦ 30 um |
| | | Y | 10.3 | | |
| | | Theta | 24 | | 3Sigma ≦100 ppm |
| 2 | TVPre-Alignment Accuracy | X | 0.0641 | | 3Sigma ≦ 3 um |
| | | Y | 0.0601 | | |