

Operator:LHOFFMAN Machine:3909 Release:4.1.0  
Date:20/04/2015 Time:01:29

Report Filename : EMCA.75  
Report Path : TM/Projection/StrayLightMonitoring/EMCA.log/  
Machine Type : 1250B

Testname : Straylight At Multiple Opaque Squares  
Start Time : Mon, 20 Apr 2015 01:24:55 236173us +  
0200  
Stop Time : Mon, 20 Apr 2015 01:29:02 710538us +  
0200  
Execution Time : 00:04:07  
Test Run Result : Finished  
Test Status : Test is Finished  
Comment :

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+-----+-----+-----+-----+
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|          Step          | Start Time | Stop Time |
Status |
+=====+=====+=====+=====+
=====+
| Prepare machine      | 01:24:55   | 01:27:36   |
Finished |
| Perform TIS measurements | 01:27:36   | 01:28:32   |
Finished |
| Perform Spot sensor measurements | 01:28:32   | 01:28:42   |
Finished |
| Create testlog      | 01:28:42   | 01:28:56   |
Finished |
| Unload reticle      | 01:28:56   | 01:29:01   |
Finished |
| Calculate stray light | 01:29:01   | 01:29:02   |
Finished |
+-----+-----+-----+-----+
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+-----+
| Execution Time |
+=====+
| 00:02:41      |
| 00:00:55      |
| 00:00:10      |
| 00:00:13      |
| 00:00:05      |
| 00:00:01      |
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Main Results

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Test Log Name      : 3909
Machine Number    : 3909
Machine Type      : 1250B
Lens Number       : 0122228a
ELLE ID           :
Measurement Time  : 04/20/2015 01:28
Comment           :
Pupil Shape
  Illumination mode : Annular
  NA                 : 0.850
  DOE ID             : 15
  Sigma
    inner           : 0.690
    outer           : 0.930
Reticle ID        : 45563154P065
Number of Cycles  : 1
Attenuator Factor : 0.450
Chuck ID          : CHUCK_ID_1
TIS Plate ID      : PLATE_1
PGA gain          : PGA_GAIN_10DB
Number of Samples : 100
Defocus           : 0.000 [um]
Rema Usage TIS    : Homed
Number of Laser Pulses : 50
Laser Frequency   : 4000 [Hz]
Energy            : 11.25 [mJ]
Rema Usage Spot Sensor : Homed
Dark Current      : 595 [bits]
Reference Blocksize : 33 [um]
Straylight at ref. blocksize : 1.78 [%]
Max. Straylight position
  X                : 6.95 [mm]
  Y                : 6.60 [mm]

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Detailed Results

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|      position      |           |           |           | |
|-----+-----+           |           |           |
| X | Y | sensor | pad size | Stray Light |
used ref | [mm] | [mm] | [um] | [%] |
|

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16							
		7.00		8.30		TIS Ratio	
0						0	
		7.00		10.80		TIS Ratio	
18						1100	
		7.00		8.45		TIS Ratio	
0						0	
		10.75		7.00		TIS Ratio	
19						108	
		10.75		6.40		TIS Ratio	
19						68	
		10.45		7.00		TIS Ratio	
19						48	
		10.45		6.80		TIS Ratio	
19						36	
		10.45		6.60		TIS Ratio	
19						33	
		10.45		6.40		TIS Ratio	
19						30	
		10.50		8.30		TIS Ratio	
0						0	
		10.50		10.80		TIS Ratio	
21						1100	
		10.50		8.45		TIS Ratio	
0						0	
		-10.50		10.80		Spot	
2						1100	
		-10.50		9.60		Spot	
0						0	
		-7.00		10.80		Spot	
5						1100	
		-7.00		9.60		Spot	
0						0	
		-3.50		10.80		Spot	
8						1100	
		-3.50		9.60		Spot	
0						0	
		0.00		10.80		Spot	
11						1100	
		0.00		9.60		Spot	
0						0	
		3.50		10.80		Spot	
14						1100	
		3.50		9.60		Spot	
0						0	
		7.00		10.80		Spot	
17						1100	
		7.00		9.60		Spot	
0						0	
		10.50		10.80		Spot	
20						1100	
		10.50		9.60		Spot	
						0	

0 |

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ref id	used cal	cal id	Av TIS	cal	Av SS
0	1	0	215.6	-193.8	0.00
0	1	0	219.8	-193.8	0.00
0	1	0	219.7	-193.8	0.00
0	1	0	222.0	-193.8	0.00
0	1	0	222.7	-193.8	0.00
0	1	0	224.8	-193.8	0.00
1	1	0	2338.0	0.0	0.00
0	1	1	207.7	-193.8	0.00
3	0	1	2343.4	0.0	0.00
0	2	0	223.8	-195.3	0.00
0	2	0	228.8	-195.3	0.00
0	2	0	228.8	-195.3	0.00
0	2	0	231.1	-195.3	0.00
0	2	0	231.8	-195.3	0.00
0	2	0	232.3	-195.3	0.00
4	2	0	2341.3	0.0	0.00
0	2	2	213.7	-195.3	0.00
6	0	2	2341.4	0.0	0.00
0	3	0	226.0	-196.1	0.00
0	3	0	228.0	-196.1	0.00
0	3	0	230.4	-196.1	0.00
0	3	0	232.1	-196.1	0.00
0	3	0	234.2	-196.1	0.00
0	3	0	236.4	-196.1	0.00
7	3	0	2335.5	0.0	0.00
0	3	3	215.9	-196.1	0.00
9	0	3	2336.1	0.0	0.00
0	4	0	226.8	-197.7	0.00
0	4	0	226.4	-197.7	0.00
0	4	0	228.6	-197.7	0.00
0	4	0	232.5	-197.7	0.00
0	4	0	232.4	-197.7	0.00
0	4	0	233.3	-197.7	0.00
10	4	0	2349.6	0.0	0.00
0	4	4	217.3	-197.7	0.00
12	0	4	2350.7	0.0	0.00
0	5	0	226.8	-197.7	0.00
0	5	0	228.8	-197.7	0.00
0	5	0	231.5	-197.7	0.00
0	5	0	231.6	-197.7	0.00
0	5	0	233.8	-197.7	0.00
0	5	0	236.0	-197.7	0.00
13	5	0	2350.2	0.0	0.00

0	5	5	216.7	-197.7	0.00
15	0	5	2349.8	0.0	0.00
0	6	0	229.6	-198.0	0.00
0	6	0	229.3	-198.0	0.00
0	6	0	233.9	-198.0	0.00
0	6	0	233.6	-198.0	0.00
0	6	0	236.6	-198.0	0.00
0	6	0	236.2	-198.0	0.00
16	6	0	2362.0	0.0	0.00
0	6	6	218.0	-198.0	0.00
18	0	6	2360.4	0.0	0.00
0	7	0	216.9	-194.8	0.00
0	7	0	218.1	-194.8	0.00
0	7	0	220.1	-194.8	0.00
0	7	0	221.8	-194.8	0.00
0	7	0	224.0	-194.8	0.00
0	7	0	225.6	-194.8	0.00
19	7	0	2330.5	0.0	0.00
0	7	7	209.7	-194.8	0.00
21	0	7	2340.3	0.0	0.00
0	0	1	0.0	0.0	0.01
2	0	1	0.0	0.0	0.92
0	0	2	0.0	0.0	0.01
5	0	2	0.0	0.0	0.92
0	0	3	0.0	0.0	0.01
8	0	3	0.0	0.0	0.91
0	0	4	0.0	0.0	0.01
11	0	4	0.0	0.0	0.91
0	0	5	0.0	0.0	0.01
14	0	5	0.0	0.0	0.91
0	0	6	0.0	0.0	0.01
17	0	6	0.0	0.0	0.92
0	0	7	0.0	0.0	0.01
20	0	7	0.0	0.0	0.92