Transaction Information

Tool ID	STP1333
Tool Status	Running Wafers
Location	Dresden, Germany
Wafer Size	300 mm
Fab Section	Lithography
Tool Available Date	2022-07-01

General Product Information

Vendor Supplier	ASML
Model	XT 1250B
Vintage	2002
Serial No	m7924
Asset Description	ALC1333STP
Software Version	4.1.0
CIM	SECS, GEM
Process	ArF Litho

Hardware Configuration (Fab)

System Type	Description	Quantity	Status
Main System	Main Frame	1	OK
Handler System	ASML Wafer Handler	1	OK
Handler System	ASML Reticle Handler	1	OK
Factory Interface	FOUP	1	OK
Options System	OIU Unix	1	OK
Others			

Hardware Configuration (Subfab / Auxilliary Units)

Description	Quantity	Status
ELECTROCABINET #2	1	OK
PURGE HOOD BLOWER	1	OK
Cymer Laser XLA-165	1	OK
EXHAUST CABINET	1	OK
LENS CIRCUIT WATER CAB.	1	OK
MAIN DISTRIBUTION CAB.	1	OK
AIR CONTROL CAB.	1	OK
ELECTROCABINET #3	1	OK
MOTOR CIRCUIT WATER CAB	1	OK

Missing/Faulty Parts / Accesorries List

Description	Quantity
NONE	

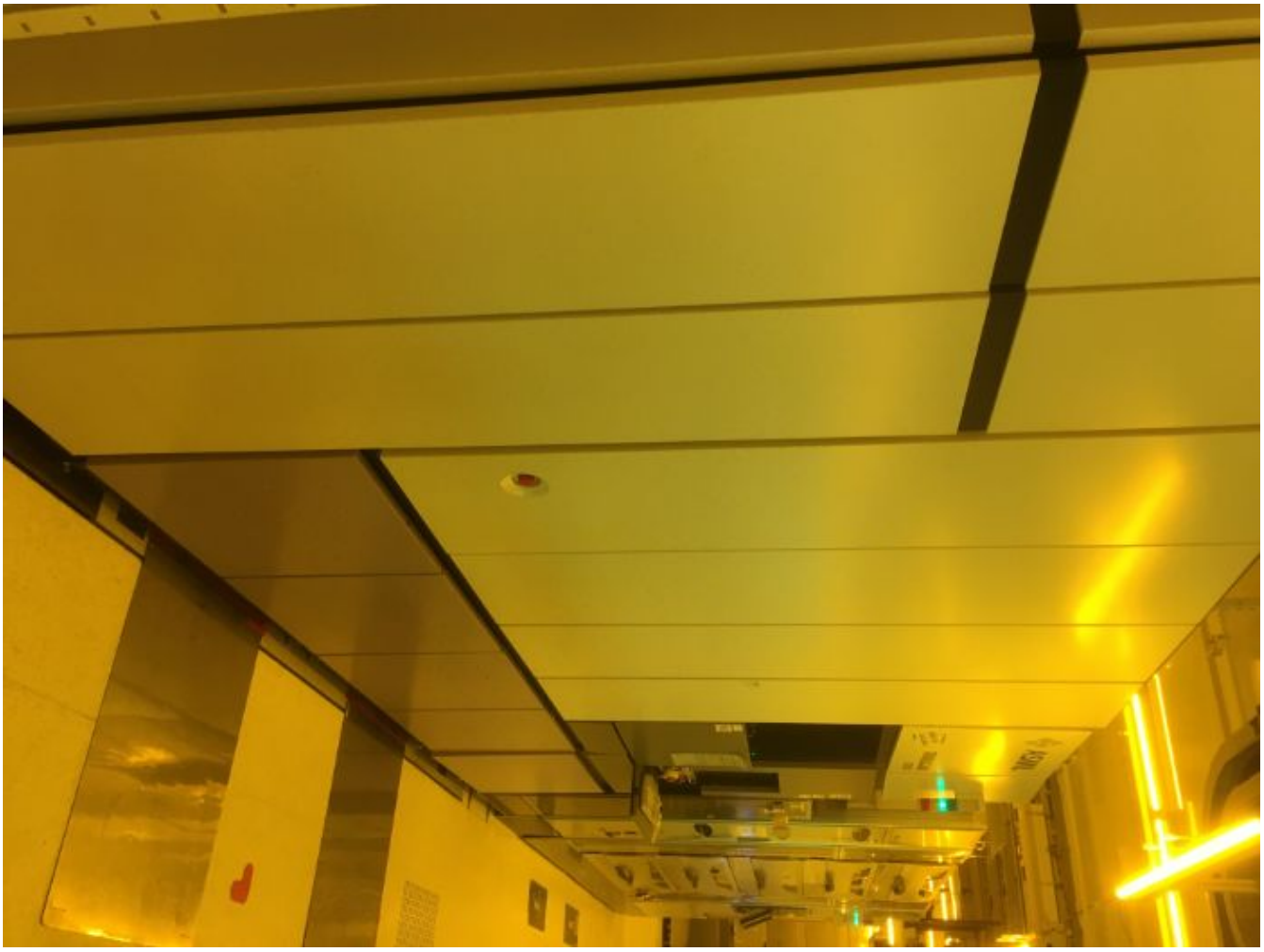
Tool Pictures

General	Mainframe

General	Mainframe

General	Mainframe

General	Mainframe



Additional Configuration Files

Operator: Machine:7924 Release:4.1.0 Date:03/04/2022 Time:04:20

Report Filename : LUSL.99
Report Path : TM/Projection/StrayLightMonitoring/LUSL.log/
Machine Type : 1250B

File name of logfile(s) : service_data/LU/LUSL/LUSL.0287.log

Testname : Uniformity Stray Light Measurement
Start Time : Sun, 03 Apr 2022 04:19:55 980267us +0000
Stop Time : Sun, 03 Apr 2022 04:20:39 391523us +0000
Execution Time : 00:00:43
Test Run Result : Finished
Test Status : Test is Finished
Results Validation : In Limits
Measurement Quality : OK
Comment : Scheduled execution (m-action)

Step	Start Time	Stop Time	Status	Execution Time
Initialize drivers	04:19:55	04:19:56	Finished	00:00:00
Prepare machine	04:19:56	04:20:03	Finished	00:00:07
Perform measurements	04:20:03	04:20:39	Finished	00:00:35
Calculate results	04:20:39	04:20:39	Finished	00:00:00

Scenario Inputs

Selected Scenario : Monitoring
Verification Set : Single Verification
Overrule Inputs : No
Manual Scenario Selected : No

Input parameters

pupil_shape
Illumination mode : Annular
NA : 0.850
DOE ID : 15
Sigma
inner : 0.690
outer : 0.930
Image Field Size X : 26.00 [mm]
Image Field Size Y : 26.00 [mm]
Steps in X : 11
Steps in Y : 1
No. of Pulses : 200
Pulse Frequency : 4000
Attenuator Transmission : 100 [%]
spot_sensor : Non-Leading

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  Reticle used                : No
  REMA settings
    Rema use                  : Spot
    disable_BBS               : No
  Unicom
    Mode                      : Automatic
    Position                  :   41.322  [mm]
  Use Nominal Pulse Frequency : Yes


Verification data

  verification_type : Single Verification


Results

  Machine information
    Machine Type                      : 1250B
    Lens number                       : 0122773a
  UNICOM position                     : 41.32  [mm]
  Stray light results
    Maximum
      Stray Light Value               :  0.321 [%]
      X position                      : -7.765 [mm]
      Y position                      :  0.000 [mm]
    At (0,0)
      Stray Light Value               :  0.307 [%]
      X position                      :  0.000 [mm]
      Y position                      :  0.000 [mm]
    Max. Centre-to-edge
      Stray Light Value               :  0.096 [%]
      X position                      : 12.942 [mm]
      Y position                      :  0.000 [mm]
    Slit Average
      Stray Light Value               :  0.293 [%]
      Y position                      :  0.000 [mm]
  Result with UNICOM at centre position
    UNICOM centre position            : 35.1   [mm]
    Stray Light at (0,0)
      Stray Light Value               :  0.306 [%]
      X position                      :  0.000 [mm]
      Y position                      :  0.000 [mm]

  Stray light results per point on the line y=0
    +----+------------------+------------+------------+
    |    | Stray Light Value | X position | Y position |
    |    |        [%]        |    [mm]    |    [mm]    |
    +====+==================+============+============+
    | 0  |             0.235 |    -12.942 |      0.000 |
    | 1  |             0.286 |    -10.353 |      0.000 |
    | 2  |             0.321 |     -7.765 |      0.000 |
    | 3  |             0.319 |     -5.177 |      0.000 |
    | 4  |             0.301 |     -2.588 |      0.000 |
```

5	0.307	0.000	0.000
6	0.308	2.588	0.000
7	0.319	5.177	0.000
8	0.309	7.765	0.000
9	0.306	10.353	0.000
10	0.210	12.942	0.000
11	0.000	0.000	0.000
12	0.000	0.000	0.000
13	0.000	0.000	0.000
14	0.000	0.000	0.000
15	0.000	0.000	0.000
16	0.000	0.000	0.000
17	0.000	0.000	0.000
18	0.000	0.000	0.000
19	0.000	0.000	0.000
20	0.000	0.000	0.000
21	0.000	0.000	0.000
22	0.000	0.000	0.000
23	0.000	0.000	0.000
24	0.000	0.000	0.000
25	0.000	0.000	0.000
26	0.000	0.000	0.000
27	0.000	0.000	0.000
28	0.000	0.000	0.000
29	0.000	0.000	0.000
30	0.000	0.000	0.000
31	0.000	0.000	0.000
32	0.000	0.000	0.000
33	0.000	0.000	0.000
34	0.000	0.000	0.000
35	0.000	0.000	0.000
36	0.000	0.000	0.000
37	0.000	0.000	0.000
38	0.000	0.000	0.000
39	0.000	0.000	0.000
40	0.000	0.000	0.000
41	0.000	0.000	0.000
42	0.000	0.000	0.000
43	0.000	0.000	0.000
44	0.000	0.000	0.000
45	0.000	0.000	0.000
46	0.000	0.000	0.000
47	0.000	0.000	0.000
48	0.000	0.000	0.000
49	0.000	0.000	0.000
50	0.000	0.000	0.000