

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: METALUX

Report Number: P892620

Luminaire Tested: 2MB-3SL-ASML-UNV-L950

Issue Date: 11/11/2024

**Test Information**

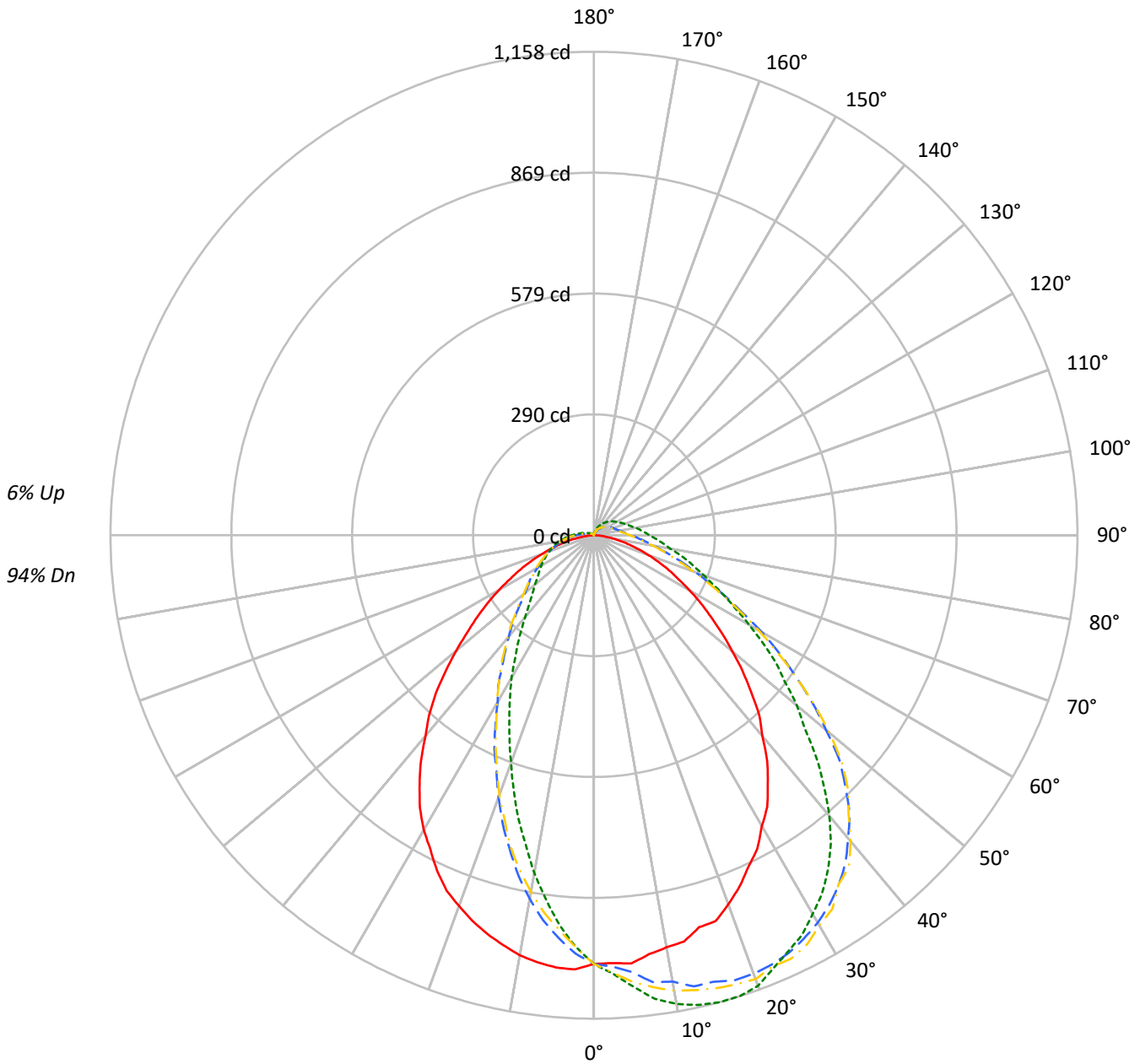
Test Method: LM-79-2019  
Report Number: P892620  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-33)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 2MB-3SL-ASML-UNV-L950  
Description: 3000 Lumen 2FT MICROBAY LINEAR BAY with ASYMMETRIC LENS, 90CRI, 5000K CCT  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2559.0 lumens  
Efficiency: N/A  
Efficacy: 121.9 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.07 / 1.25  
Luminous Opening: Rectangular w/ Sides (W: 0.27' x L: 1.98' x H: 0.12')  
CIE Type: Direct  
  
Input Watts (W): 21  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: 0.998  
Total Harmonic Distortion (THDi): 8  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

TEST NUMBER: P892620  
CATALOG NUMBER: 2MB-3SL-ASML-UNV-L950

### Luminous Intensity Polar Plot



— 0°-180°    - - 45°-225°    ··· 90°-270°    - · 135°-315°



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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20				20
RC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	97	97	97	94
1	107	103	98	94	104	100	96	92	95	91	88	90	87	85	85	83	81	81	81	81	79
2	98	90	83	78	95	88	82	76	83	78	74	79	75	71	75	72	69	69	69	69	66
3	90	80	72	65	87	78	70	64	74	68	63	70	65	61	67	63	59	59	59	59	57
4	83	71	63	56	80	69	61	55	66	59	54	63	57	53	60	55	51	51	51	51	49
5	76	64	55	49	74	62	54	48	60	53	47	57	51	46	55	49	45	45	45	45	43
6	71	58	49	43	68	56	48	42	54	47	42	52	46	41	50	44	40	40	40	40	38
7	66	53	44	38	64	51	43	38	49	42	37	48	41	36	46	40	36	36	36	36	34
8	61	48	40	34	59	47	39	34	45	38	33	44	37	33	42	37	32	32	32	32	30
9	57	44	36	31	56	43	36	31	42	35	30	40	34	30	39	33	29	29	29	29	28
10	54	41	33	28	52	40	33	28	39	32	28	38	31	27	36	31	27	27	27	27	25

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	21023	21023	21023	21023
5°	21043	21424	21243	18518
10°	20609	21881	21010	15782
15°	20260	21803	20604	13195
20°	20044	21371	20129	10796
25°	19221	20380	19487	8882
30°	18353	19478	18590	7339
35°	17384	18381	17432	5979
40°	15934	16814	15924	4902
45°	14504	14842	14578	4177
50°	12828	12954	12769	3774
55°	11229	11348	11153	3467
60°	9768	9679	9679	3276
65°	8466	8334	8261	3113
70°	7081	7303	6841	2977
75°	5640	6639	5487	2865
80°	4176	5975	3794	2668
85°	2620	5771	2115	2501

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 157.5°  
 Vertical Angle: 45°  
 Luminance: 20306 cd/sqm



TEST NUMBER: P892620  
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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.5	3.8
10°-20°	268.1	10.5
20°-30°	385.7	15.1
30°-40°	437.7	17.1
40°-50°	418.3	16.3
50°-60°	339.9	13.3
60°-70°	237.2	9.3
70°-80°	146.9	5.7
80°-90°	84.3	3.3
90°-100°	50.4	2.0
100°-110°	33.1	1.3
110°-120°	23.2	0.9
120°-130°	16.8	0.7
130°-140°	11.2	0.4
140°-150°	6.3	0.2
150°-160°	2.8	0.1
160°-170°	0.8	0.0
170°-180°	0.1	0.0
0°-30°	750.3	29.3
0°-40°	1188.0	46.4
0°-60°	1946.1	76.0
0°-90°	2414.5	94.4
90°-120°	106.6	4.2
90°-150°	140.9	5.5
90°-180°	145.0	5.7
0°-180°	2559.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1027	1027	1027	1027	1027	
5°	1029	1085	1039	938	1029	97
15°	972	1158	988	701	972	276
25°	876	1100	888	479	876	404
35°	726	978	728	318	726	453
45°	532	754	535	212	532	411
55°	343	532	341	162	343	309
65°	198	346	194	129	198	197
75°	88	231	86	100	88	95
85°	19	157	16	68	19	21
90°	1	132	0	52	1	1
95°	1	115	0	40	1	1
105°	1	89	0	22	1	1
115°	1	71	0	12	1	1
125°	1	58	0	8	1	1
135°	1	46	0	6	1	1
145°	1	32	0	4	1	0
155°	1	20	0	2	1	0
165°	1	9	0	1	1	0
175°	1	0	0	0	1	0
180°	0	0	0	0	0	



TEST NUMBER: P892620  
 CATALOG NUMBER: 2MB-3SL-ASML-UNV-L950

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1026.7	1026.7	1026.7	1026.7	1026.7	1026.7	1026.7	1026.7	1026.7	1026.7	1026.7
2.5°	1025.7	1033.4	1034.1	1058.3	1051.3	1060.3	1048.9	1050.9	1040.8	1038.1	1003.2
5°	1029.4	1045.9	1050.2	1091.9	1085.2	1089.9	1074.1	1062.7	1039.2	1025.0	968.6
7.5°	1011.9	1055.3	1079.5	1109.1	1120.2	1123.9	1091.9	1070.8	1031.8	997.1	930.9
10°	1002.2	1062.0	1085.5	1129.9	1139.7	1132.6	1107.7	1072.8	1021.7	965.9	884.5
12.5°	996.8	1065.7	1106.7	1152.1	1152.4	1145.1	1115.8	1078.2	1005.2	932.2	835.4
15°	971.9	1065.0	1107.1	1153.1	1158.2	1153.5	1123.5	1074.5	988.4	890.6	778.9
17.5°	969.2	1063.4	1117.8	1166.2	1157.8	1154.5	1128.2	1072.8	968.2	848.2	725.8
20°	941.0	1059.7	1117.8	1151.4	1148.7	1150.1	1131.3	1070.4	945.0	802.5	667.7
22.5°	911.1	1055.3	1113.1	1138.7	1122.5	1147.1	1117.8	1064.0	921.5	754.7	609.8
25°	875.8	1048.2	1104.0	1120.5	1100.0	1119.2	1118.8	1054.3	887.9	703.3	564.1
27.5°	847.2	1037.1	1089.2	1114.1	1079.2	1095.6	1105.0	1042.5	848.2	652.5	510.3
30°	804.5	1023.0	1071.4	1075.1	1047.6	1068.4	1079.2	1027.7	814.9	595.1	461.2
32.5°	771.9	1006.9	1049.6	1044.5	1017.0	1044.5	1062.0	1012.9	775.2	544.6	426.6
35°	726.2	987.4	1022.3	995.8	977.6	1000.5	1021.0	997.1	728.2	490.8	382.2
37.5°	681.8	970.2	989.7	956.8	931.9	957.5	1002.5	967.5	680.8	448.1	349.3
40°	627.7	930.9	947.0	902.3	877.4	915.1	956.5	942.0	627.3	403.8	317.4
42.5°	586.6	901.7	906.4	845.2	815.6	855.6	902.7	905.7	584.0	363.8	289.1
45°	532.5	860.6	851.9	784.7	753.7	789.7	860.3	868.4	535.2	329.1	261.6
47.5°	483.8	814.9	797.8	719.1	684.5	727.2	805.5	826.7	480.7	297.2	235.7
50°	433.0	763.8	725.8	657.9	634.7	655.9	735.9	770.9	431.0	265.6	215.8
52.5°	386.6	707.3	660.3	599.4	576.2	593.7	663.0	715.4	381.6	239.0	198.4
55°	342.9	650.9	590.0	536.2	531.5	536.9	589.0	649.2	340.6	215.5	187.3
57.5°	303.9	582.3	526.8	487.1	478.7	483.1	519.1	580.9	300.9	192.0	171.1
60°	264.6	512.0	464.3	433.7	429.0	432.3	455.5	514.4	262.2	172.1	156.0
62.5°	228.9	441.4	399.1	387.6	384.3	384.3	394.0	447.8	225.9	152.0	144.6
65°	198.4	380.9	349.0	344.6	345.6	345.3	339.2	373.8	193.6	134.1	134.5
67.5°	167.4	316.7	298.9	304.2	308.3	306.6	293.8	311.0	163.4	118.0	125.4
70°	138.8	261.6	258.2	270.3	279.7	271.0	252.5	254.2	134.1	102.2	113.6
72.5°	112.0	211.5	226.9	243.7	252.8	243.1	217.5	210.1	107.9	87.7	102.9
75°	88.1	170.1	194.7	219.5	231.3	218.9	189.3	164.1	85.7	74.0	94.1
77.5°	67.2	134.8	166.4	195.3	206.8	196.0	164.7	128.1	62.9	62.2	84.7
80°	48.1	106.6	147.6	175.5	185.9	175.5	142.9	101.2	43.7	49.8	74.6
82.5°	31.6	82.4	128.4	159.7	171.1	158.3	124.1	78.0	27.9	40.3	67.2
85°	19.2	65.2	112.0	143.6	156.7	144.2	108.6	59.2	15.5	30.9	58.5
87.5°	8.4	50.4	99.8	132.5	144.2	132.8	96.8	46.4	6.4	24.2	50.1
90°	0.7	40.0	88.1	122.0	132.5	121.7	85.7	37.7	0.0	17.5	43.0
92.5°	0.7	34.3	80.7	113.0	124.7	112.6	77.3	30.9	0.0	12.8	36.3
95°	1.0	28.9	73.3	105.9	115.3	104.9	70.6	26.6	0.0	8.7	30.6
97.5°	1.0	26.2	67.2	98.8	109.3	98.2	64.5	23.9	0.0	6.4	24.9
100°	0.7	24.2	62.5	92.1	101.9	91.4	59.8	21.5	0.0	4.0	20.2
102.5°	0.7	22.5	58.5	86.4	94.1	85.4	55.8	20.2	0.0	3.4	16.5
105°	0.7	21.5	54.8	79.7	88.8	79.7	52.4	18.8	0.0	2.7	12.8
107.5°	0.7	20.2	52.1	76.0	83.4	75.3	49.8	17.8	0.0	2.7	10.4
110°	0.7	19.2	49.8	70.6	79.0	71.3	47.4	16.1	0.0	1.7	8.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	0.7	17.5	47.4	66.9	75.0	67.2	45.4	14.8	0.0	1.7	7.4
115°	0.7	15.8	45.4	64.5	70.6	63.9	43.4	13.1	0.0	1.3	6.7
117.5°	0.7	14.8	44.0	61.5	67.6	60.8	41.7	12.4	0.0	1.3	6.4
120°	0.7	14.1	42.0	58.5	63.2	57.8	39.7	11.8	0.0	1.3	6.1
122.5°	0.7	13.4	40.3	55.8	60.8	55.5	38.0	11.4	0.0	1.0	5.4
125°	0.7	12.8	38.0	52.8	57.5	52.1	35.0	11.1	0.0	0.7	4.7
127.5°	0.7	12.1	35.6	50.4	54.8	49.8	32.9	10.8	0.0	0.7	4.4
130°	0.7	11.8	32.6	47.4	51.8	46.7	30.6	10.8	0.0	0.7	4.0
132.5°	0.7	11.4	29.2	44.4	49.1	43.7	28.2	10.4	0.0	0.7	3.4
135°	0.7	11.1	25.9	41.4	45.7	40.7	26.2	10.1	0.0	0.7	3.0
137.5°	0.7	10.4	22.9	38.0	42.4	37.3	24.9	9.4	0.0	0.7	2.7
140°	0.7	9.7	20.5	35.3	39.0	34.3	22.9	8.7	0.0	0.3	2.0
142.5°	0.7	8.7	18.5	31.9	35.6	31.3	20.5	7.4	0.0	0.3	2.0
145°	0.7	7.7	16.8	27.9	32.3	27.9	19.2	6.7	0.0	0.3	1.7
147.5°	0.7	7.1	15.1	23.5	29.2	25.6	17.1	5.7	0.0	0.3	1.3
150°	0.7	6.4	13.1	19.8	25.9	22.5	15.8	5.0	0.0	0.0	1.0
152.5°	0.7	5.7	11.4	16.5	23.2	20.5	14.1	4.4	0.0	0.0	0.7
155°	1.0	5.4	9.7	14.5	20.2	17.8	11.8	3.7	0.0	0.0	0.7
157.5°	1.0	4.7	8.1	11.8	17.8	15.5	9.4	3.0	0.0	0.0	0.3
160°	1.0	4.4	6.7	9.1	14.8	12.8	7.7	2.4	0.0	0.0	0.3
162.5°	1.0	4.0	5.7	6.7	12.1	10.1	6.1	1.7	0.0	0.0	0.3
165°	1.0	3.4	5.0	4.7	9.4	7.7	4.7	1.0	0.0	0.0	0.0
167.5°	1.0	3.0	4.0	3.4	7.1	5.7	3.4	0.7	0.0	0.0	0.0
170°	1.0	2.4	3.4	2.4	2.0	3.7	2.0	0.3	0.0	0.0	0.0
172.5°	1.0	2.0	2.7	1.7	0.7	2.0	1.0	0.0	0.0	0.0	0.0
175°	1.0	1.7	1.7	1.0	0.3	0.7	0.0	0.0	0.0	0.0	0.0
177.5°	1.0	1.3	1.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3



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**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1026.7	1026.7	1026.7	1026.7	1026.7	1026.7
2.5°	998.5	987.4	977.3	988.1	995.8	1025.7
5°	949.7	938.0	939.3	949.1	974.9	1029.4
7.5°	899.3	879.8	884.5	911.7	950.1	1011.9
10°	839.8	822.0	826.3	867.4	921.2	1002.2
12.5°	786.7	756.8	782.3	821.0	887.5	996.8
15°	724.5	700.9	714.7	771.9	855.3	971.9
17.5°	657.2	639.1	655.6	712.4	815.6	969.2
20°	605.5	580.3	599.8	662.3	766.5	941.0
22.5°	547.3	528.1	548.7	606.1	716.4	911.1
25°	499.6	479.4	499.9	557.1	672.0	875.8
27.5°	453.2	434.7	453.2	505.6	628.0	847.2
30°	412.5	394.7	413.5	463.9	576.6	804.5
32.5°	374.5	351.7	375.9	424.6	531.2	771.9
35°	335.2	318.0	336.2	390.3	480.7	726.2
37.5°	302.6	284.8	306.3	352.7	438.1	681.8
40°	271.6	255.8	273.0	322.4	401.7	627.7
42.5°	247.4	231.6	249.1	294.8	365.1	586.6
45°	223.9	212.1	226.3	264.6	328.1	532.5
47.5°	206.8	196.7	208.4	242.4	297.2	483.8
50°	192.0	184.9	193.3	220.2	265.3	433.0
52.5°	178.9	171.8	181.5	203.1	240.0	386.6
55°	168.8	162.4	169.8	186.9	214.8	342.9
57.5°	157.7	153.6	159.4	169.8	195.0	303.9
60°	149.6	145.2	151.3	159.7	172.5	264.6
62.5°	140.5	138.2	141.9	148.6	155.3	228.9
65°	132.5	129.1	133.8	136.2	135.5	198.4
67.5°	123.7	122.7	125.4	125.7	120.7	167.4
70°	114.6	114.0	117.3	115.3	104.9	138.8
72.5°	107.2	107.2	109.3	105.2	91.4	112.0
75°	99.2	99.8	101.5	96.8	77.0	88.1
77.5°	91.8	92.5	92.8	86.4	64.5	67.2
80°	83.4	83.0	86.4	78.3	52.4	48.1
82.5°	76.0	74.6	76.7	68.6	42.4	31.6
85°	67.6	67.9	69.3	59.8	34.0	19.2
87.5°	60.8	60.8	62.2	52.8	25.6	8.4
90°	52.8	52.1	54.1	44.7	19.2	0.7
92.5°	46.1	46.1	47.4	38.3	14.1	0.7
95°	39.3	39.7	40.7	31.6	10.8	1.0
97.5°	33.6	34.0	35.3	26.9	7.7	1.0
100°	28.6	28.9	29.6	21.5	6.1	0.7
102.5°	23.9	24.9	24.9	17.8	4.7	0.7
105°	20.2	21.5	20.8	14.5	4.4	0.7
107.5°	16.8	18.2	18.2	11.8	4.4	0.7
110°	13.8	15.8	15.5	10.1	3.4	0.7





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**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	11.8	13.4	12.4	8.7	3.4	0.7
115°	10.1	11.8	11.1	8.1	3.0	0.7
117.5°	9.1	10.1	10.1	7.7	3.0	0.7
120°	8.4	9.4	9.1	7.4	3.0	0.7
122.5°	7.7	8.4	8.4	6.7	2.7	0.7
125°	7.4	7.7	8.1	6.1	2.7	0.7
127.5°	7.1	7.7	7.7	5.7	2.4	0.7
130°	6.4	7.1	7.1	5.4	2.4	0.7
132.5°	5.7	6.4	6.4	5.0	2.4	0.7
135°	5.4	6.1	6.1	4.7	2.4	0.7
137.5°	5.0	5.4	5.4	4.4	2.4	0.7
140°	4.4	5.0	5.0	4.0	2.4	0.7
142.5°	4.0	4.7	4.7	3.7	2.0	0.7
145°	3.7	4.0	4.4	3.4	2.0	0.7
147.5°	3.0	3.7	4.0	3.0	2.0	0.7
150°	2.4	3.4	3.4	3.0	2.0	0.7
152.5°	1.7	3.0	3.0	2.7	1.7	0.7
155°	1.3	2.4	2.7	2.4	1.7	1.0
157.5°	1.0	2.0	2.4	2.4	1.7	1.0
160°	0.7	1.7	2.0	2.0	1.3	1.0
162.5°	0.3	1.3	1.7	2.0	1.3	1.0
165°	0.0	1.0	1.3	1.7	1.3	1.0
167.5°	0.0	0.7	1.0	1.3	1.0	1.0
170°	0.0	0.3	0.7	1.0	1.0	1.0
172.5°	0.0	0.0	0.3	0.7	0.7	1.0
175°	0.0	0.0	0.0	0.3	0.7	1.0
177.5°	0.0	0.0	0.0	0.3	0.7	1.0
180°	0.3	0.3	0.3	0.3	0.3	0.3



TEST NUMBER: P892620  
 CATALOG NUMBER: 2MB-3SL-ASML-UNV-L950

**CIE UGR TABLE:**

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	19.47	20.93	19.92	21.36	21.81	21.63	23.09	22.08	23.52	23.98
	3H	20.29	21.61	20.76	22.05	22.55	23.30	24.62	23.77	25.06	25.56
	4H	20.50	21.74	20.98	22.20	22.71	24.11	25.35	24.60	25.82	26.33
	6H	20.59	21.74	21.09	22.21	22.74	24.94	26.10	25.45	26.57	27.10
	8H	20.59	21.69	21.10	22.19	22.72	25.38	26.48	25.90	26.98	27.51
	12H	20.58	21.63	21.10	22.12	22.68	25.87	26.92	26.39	27.41	27.98
4H	2H	19.89	21.14	20.38	21.60	22.11	22.00	23.24	22.49	23.71	24.22
	3H	20.99	22.03	21.49	22.54	23.07	23.86	24.90	24.36	25.41	25.94
	4H	21.33	22.28	21.85	22.79	23.36	24.80	25.75	25.32	26.27	26.84
	6H	21.52	22.35	22.06	22.90	23.48	25.80	26.63	26.34	27.17	27.76
	8H	21.55	22.33	22.10	22.87	23.47	26.33	27.11	26.88	27.65	28.24
	12H	21.56	22.26	22.12	22.83	23.43	26.93	27.63	27.50	28.20	28.80
8H	4H	21.65	22.43	22.20	22.97	23.56	24.95	25.72	25.49	26.27	26.86
	6H	21.97	22.62	22.55	23.21	23.81	26.08	26.73	26.66	27.32	27.92
	8H	22.06	22.65	22.65	23.25	23.86	26.72	27.31	27.32	27.91	28.52
	12H	22.11	22.64	22.71	23.22	23.91	27.48	28.00	28.08	28.59	29.27
12H	4H	21.72	22.42	22.29	23.00	23.60	24.94	25.64	25.51	26.21	26.81
	6H	22.10	22.69	22.69	23.29	23.90	26.09	26.68	26.69	27.28	27.89
	8H	22.26	22.78	22.85	23.37	24.05	26.79	27.32	27.39	27.90	28.59