

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: P892618

Luminaire Tested: 2MB-3SL-ASML-UNV-L935

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892618
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-L935
Description: 3000 Lumen 2FT MICROBAY LINEAR BAY with ASYMMETRIC LENS, 90CRI, 3500K CCT
Light Source: -
Ballast/Driver: -

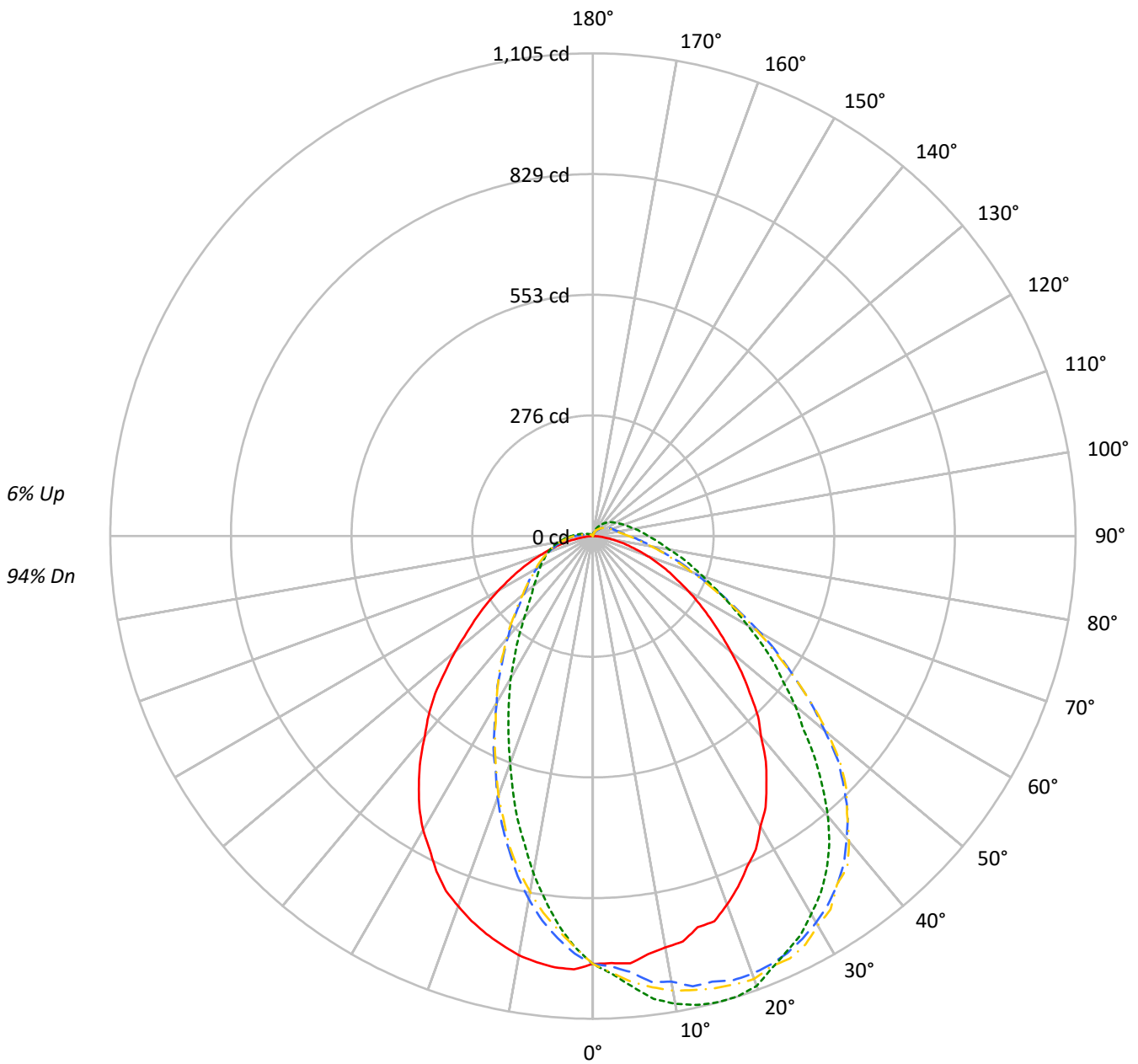
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2441.0 lumens
Efficiency: N/A
Efficacy: 116.2 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_{in}): 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

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	20055	20055	20055	20055
5°	20072	20437	20262	17663
10°	19659	20872	20041	15054
15°	19326	20798	19654	12586
20°	19120	20386	19201	10297
25°	18334	19441	18587	8473
30°	17506	18580	17732	7000
35°	16582	17535	16628	5704
40°	15198	16040	15190	4676
45°	13837	14158	13905	3986
50°	12235	12358	12179	3600
55°	10711	10825	10639	3307
60°	9317	9233	9232	3125
65°	8073	7951	7881	2969
70°	6755	6966	6530	2838
75°	5378	6332	5237	2733
80°	3985	5699	3620	2546
85°	2497	5503	2019	2387

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 157.5°
 Vertical Angle: 45°
 Luminance: 19368 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.0	3.8
10°-20°	255.8	10.5
20°-30°	367.9	15.1
30°-40°	417.5	17.1
40°-50°	399.0	16.3
50°-60°	324.2	13.3
60°-70°	226.2	9.3
70°-80°	140.1	5.7
80°-90°	80.4	3.3
90°-100°	48.1	2.0
100°-110°	31.5	1.3
110°-120°	22.1	0.9
120°-130°	16.0	0.7
130°-140°	10.6	0.4
140°-150°	6.0	0.2
150°-160°	2.7	0.1
160°-170°	0.8	0.0
170°-180°	0.1	0.0
0°-30°	715.7	29.3
0°-40°	1133.2	46.4
0°-60°	1856.4	76.1
0°-90°	2303.1	94.4
90°-120°	101.7	4.2
90°-150°	134.3	5.5
90°-180°	138.0	5.7
0°-180°	2441.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	979	979	979	979	979	
5°	982	1035	991	895	982	93
15°	927	1105	943	669	927	263
25°	835	1049	847	457	835	385
35°	693	933	695	303	693	432
45°	508	719	510	202	508	392
55°	327	507	325	155	327	294
65°	189	330	185	123	189	188
75°	84	221	82	95	84	91
85°	18	149	15	65	18	20
90°	1	126	0	50	1	1
95°	1	110	0	38	1	1
105°	1	85	0	20	1	1
115°	1	67	0	11	1	1
125°	1	55	0	7	1	1
135°	1	44	0	6	1	0
145°	1	31	0	4	1	0
155°	1	19	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: P892618
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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	979.4	979.4	979.4	979.4	979.4	979.4	979.4	979.4	979.4	979.4	979.4
2.5°	978.4	985.8	986.4	1009.5	1002.8	1011.4	1000.5	1002.5	992.8	990.3	956.9
5°	981.9	997.6	1001.8	1041.6	1035.2	1039.7	1024.6	1013.7	991.2	977.8	923.9
7.5°	965.3	1006.6	1029.7	1057.9	1068.5	1072.0	1041.6	1021.4	984.2	951.2	888.0
10°	956.0	1013.0	1035.5	1077.8	1087.1	1080.4	1056.7	1023.3	974.6	921.3	843.7
12.5°	950.8	1016.6	1055.7	1099.0	1099.3	1092.3	1064.4	1028.4	958.8	889.3	796.9
15°	927.1	1015.9	1056.0	1099.9	1104.8	1100.3	1071.7	1024.9	942.8	849.5	743.0
17.5°	924.5	1014.3	1066.3	1112.5	1104.4	1101.2	1076.2	1023.3	923.6	809.1	692.4
20°	897.6	1010.8	1066.3	1098.3	1095.8	1097.1	1079.1	1021.1	901.4	765.5	636.9
22.5°	869.1	1006.6	1061.8	1086.2	1070.8	1094.2	1066.3	1015.0	879.0	719.9	581.7
25°	835.4	999.9	1053.1	1068.8	1049.3	1067.6	1067.2	1005.7	846.9	670.9	538.1
27.5°	808.1	989.3	1039.0	1062.7	1029.4	1045.1	1054.1	994.4	809.1	622.4	486.8
30°	767.4	975.8	1022.0	1025.5	999.3	1019.1	1029.4	980.3	777.3	567.6	440.0
32.5°	736.3	960.5	1001.2	996.4	970.1	996.4	1013.0	966.2	739.5	519.5	406.9
35°	692.7	941.9	975.2	949.9	932.6	954.4	973.9	951.2	694.6	468.2	364.6
37.5°	650.3	925.5	944.1	912.7	888.9	913.3	956.3	922.9	649.4	427.5	333.2
40°	598.7	888.0	903.4	860.7	837.0	872.9	912.3	898.6	598.4	385.1	302.7
42.5°	559.6	860.1	864.6	806.2	778.0	816.1	861.0	863.9	557.0	347.0	275.8
45°	508.0	821.0	812.6	748.5	719.0	753.3	820.6	828.3	510.5	314.0	249.5
47.5°	461.5	777.3	761.0	685.9	652.9	693.6	768.4	788.6	458.6	283.5	224.8
50°	413.0	728.6	692.4	627.6	605.5	625.7	702.0	735.3	411.1	253.3	205.9
52.5°	368.8	674.7	629.8	571.8	549.7	566.3	632.4	682.4	364.0	228.0	189.2
55°	327.1	620.8	562.8	511.5	507.0	512.1	561.8	619.2	324.9	205.6	178.6
57.5°	289.9	555.4	502.5	464.7	456.7	460.8	495.1	554.1	287.0	183.1	163.2
60°	252.4	488.4	442.9	413.7	409.2	412.4	434.5	490.6	250.1	164.2	148.8
62.5°	218.4	421.1	380.7	369.7	366.5	366.5	375.8	427.2	215.5	144.9	137.9
65°	189.2	363.3	332.9	328.7	329.7	329.3	323.6	356.6	184.7	128.0	128.3
67.5°	159.7	302.1	285.1	290.2	294.1	292.5	280.3	296.6	155.9	112.6	119.6
70°	132.4	249.5	246.3	257.8	266.8	258.5	240.8	242.4	128.0	97.5	108.4
72.5°	106.8	201.7	216.5	232.5	241.2	231.9	207.5	200.4	102.9	83.7	98.1
75°	84.0	162.3	185.7	209.4	220.6	208.8	180.5	156.5	81.8	70.6	89.8
77.5°	64.1	128.6	158.7	186.3	197.2	187.0	157.1	122.2	60.0	59.3	80.8
80°	45.9	101.7	140.8	167.4	177.3	167.4	136.3	96.5	41.7	47.5	71.2
82.5°	30.1	78.6	122.5	152.3	163.2	151.0	118.3	74.4	26.6	38.5	64.1
85°	18.3	62.2	106.8	136.9	149.4	137.6	103.6	56.4	14.8	29.5	55.8
87.5°	8.0	48.1	95.2	126.3	137.6	126.7	92.4	44.3	6.1	23.1	47.8
90°	0.6	38.2	84.0	116.4	126.3	116.1	81.8	35.9	0.0	16.7	41.0
92.5°	0.6	32.7	77.0	107.8	119.0	107.4	73.8	29.5	0.0	12.2	34.6
95°	1.0	27.6	69.9	101.0	110.0	100.1	67.3	25.3	0.0	8.3	29.2
97.5°	1.0	25.0	64.1	94.3	104.2	93.6	61.6	22.8	0.0	6.1	23.7
100°	0.6	23.1	59.6	87.9	97.2	87.2	57.1	20.5	0.0	3.8	19.2
102.5°	0.6	21.5	55.8	82.4	89.8	81.5	53.2	19.2	0.0	3.2	15.7
105°	0.6	20.5	52.3	76.0	84.7	76.0	50.0	18.0	0.0	2.6	12.2
107.5°	0.6	19.2	49.7	72.5	79.5	71.8	47.5	17.0	0.0	2.6	9.9
110°	0.6	18.3	47.5	67.3	75.4	68.0	45.2	15.4	0.0	1.6	8.0



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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°	0.6	16.7	45.2	63.8	71.5	64.1	43.3	14.1	0.0	1.6	7.1
115°	0.6	15.1	43.3	61.6	67.3	60.9	41.4	12.5	0.0	1.3	6.4
117.5°	0.6	14.1	42.0	58.7	64.5	58.0	39.8	11.9	0.0	1.3	6.1
120°	0.6	13.5	40.1	55.8	60.3	55.2	37.8	11.2	0.0	1.3	5.8
122.5°	0.6	12.8	38.5	53.2	58.0	52.9	36.2	10.9	0.0	1.0	5.1
125°	0.6	12.2	36.2	50.3	54.8	49.7	33.4	10.6	0.0	0.6	4.5
127.5°	0.6	11.5	34.0	48.1	52.3	47.5	31.4	10.3	0.0	0.6	4.2
130°	0.6	11.2	31.1	45.2	49.4	44.6	29.2	10.3	0.0	0.6	3.8
132.5°	0.6	10.9	27.9	42.3	46.8	41.7	26.9	9.9	0.0	0.6	3.2
135°	0.6	10.6	24.7	39.4	43.6	38.8	25.0	9.6	0.0	0.6	2.9
137.5°	0.6	9.9	21.8	36.2	40.4	35.6	23.7	9.0	0.0	0.6	2.6
140°	0.6	9.3	19.6	33.7	37.2	32.7	21.8	8.3	0.0	0.3	1.9
142.5°	0.6	8.3	17.6	30.5	34.0	29.8	19.6	7.1	0.0	0.3	1.9
145°	0.6	7.4	16.0	26.6	30.8	26.6	18.3	6.4	0.0	0.3	1.6
147.5°	0.6	6.7	14.4	22.4	27.9	24.4	16.4	5.5	0.0	0.3	1.3
150°	0.6	6.1	12.5	18.9	24.7	21.5	15.1	4.8	0.0	0.0	1.0
152.5°	0.6	5.5	10.9	15.7	22.1	19.6	13.5	4.2	0.0	0.0	0.6
155°	1.0	5.1	9.3	13.8	19.2	17.0	11.2	3.5	0.0	0.0	0.6
157.5°	1.0	4.5	7.7	11.2	17.0	14.8	9.0	2.9	0.0	0.0	0.3
160°	1.0	4.2	6.4	8.7	14.1	12.2	7.4	2.2	0.0	0.0	0.3
162.5°	1.0	3.8	5.5	6.4	11.5	9.6	5.8	1.6	0.0	0.0	0.3
165°	1.0	3.2	4.8	4.5	9.0	7.4	4.5	1.0	0.0	0.0	0.0
167.5°	1.0	2.9	3.8	3.2	6.7	5.5	3.2	0.6	0.0	0.0	0.0
170°	1.0	2.2	3.2	2.2	1.9	3.5	1.9	0.3	0.0	0.0	0.0
172.5°	1.0	1.9	2.6	1.6	0.6	1.9	1.0	0.0	0.0	0.0	0.0
175°	1.0	1.6	1.6	1.0	0.3	0.6	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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CATALOG NUMBER: 2MB-3SL-ASML-UNV-L935

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	979.4	979.4	979.4	979.4	979.4	979.4
2.5°	952.4	941.9	932.2	942.5	949.9	978.4
5°	905.9	894.7	896.0	905.3	930.0	981.9
7.5°	857.8	839.2	843.7	869.7	906.3	965.3
10°	801.1	784.1	788.2	827.4	878.7	956.0
12.5°	750.4	721.9	746.2	783.1	846.6	950.8
15°	691.1	668.6	681.8	736.3	815.8	927.1
17.5°	626.9	609.6	625.3	679.5	778.0	924.5
20°	577.6	553.5	572.1	631.7	731.2	897.6
22.5°	522.1	503.8	523.4	578.2	683.4	869.1
25°	476.5	457.3	476.9	531.4	641.0	835.4
27.5°	432.3	414.6	432.3	482.3	599.0	808.1
30°	393.5	376.5	394.4	442.5	550.0	767.4
32.5°	357.2	335.4	358.5	405.0	506.7	736.3
35°	319.7	303.4	320.7	372.3	458.6	692.7
37.5°	288.6	271.6	292.1	336.4	417.9	650.3
40°	259.1	244.0	260.4	307.5	383.2	598.7
42.5°	236.0	221.0	237.6	281.2	348.3	559.6
45°	213.6	202.4	215.8	252.4	313.0	508.0
47.5°	197.2	187.6	198.8	231.2	283.5	461.5
50°	183.1	176.4	184.4	210.0	253.0	413.0
52.5°	170.6	163.9	173.2	193.7	229.0	368.8
55°	161.0	154.9	161.9	178.3	204.9	327.1
57.5°	150.4	146.6	152.0	161.9	186.0	289.9
60°	142.7	138.5	144.3	152.3	164.5	252.4
62.5°	134.0	131.8	135.3	141.7	148.2	218.4
65°	126.3	123.1	127.6	129.9	129.2	189.2
67.5°	118.0	117.0	119.6	119.9	115.1	159.7
70°	109.4	108.7	111.9	110.0	100.1	132.4
72.5°	102.3	102.3	104.2	100.4	87.2	106.8
75°	94.6	95.2	96.8	92.4	73.4	84.0
77.5°	87.5	88.2	88.5	82.4	61.6	64.1
80°	79.5	79.2	82.4	74.7	50.0	45.9
82.5°	72.5	71.2	73.1	65.4	40.4	30.1
85°	64.5	64.8	66.1	57.1	32.4	18.3
87.5°	58.0	58.0	59.3	50.3	24.4	8.0
90°	50.3	49.7	51.6	42.7	18.3	0.6
92.5°	43.9	43.9	45.2	36.6	13.5	0.6
95°	37.5	37.8	38.8	30.1	10.3	1.0
97.5°	32.1	32.4	33.7	25.7	7.4	1.0
100°	27.3	27.6	28.2	20.5	5.8	0.6
102.5°	22.8	23.7	23.7	17.0	4.5	0.6
105°	19.2	20.5	19.9	13.8	4.2	0.6
107.5°	16.0	17.3	17.3	11.2	4.2	0.6
110°	13.1	15.1	14.8	9.6	3.2	0.6



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	11.2	12.8	11.9	8.3	3.2	0.6
115°	9.6	11.2	10.6	7.7	2.9	0.6
117.5°	8.7	9.6	9.6	7.4	2.9	0.6
120°	8.0	9.0	8.7	7.1	2.9	0.6
122.5°	7.4	8.0	8.0	6.4	2.6	0.6
125°	7.1	7.4	7.7	5.8	2.6	0.6
127.5°	6.7	7.4	7.4	5.5	2.2	0.6
130°	6.1	6.7	6.7	5.1	2.2	0.6
132.5°	5.5	6.1	6.1	4.8	2.2	0.6
135°	5.1	5.8	5.8	4.5	2.2	0.6
137.5°	4.8	5.1	5.1	4.2	2.2	0.6
140°	4.2	4.8	4.8	3.8	2.2	0.6
142.5°	3.8	4.5	4.5	3.5	1.9	0.6
145°	3.5	3.8	4.2	3.2	1.9	0.6
147.5°	2.9	3.5	3.8	2.9	1.9	0.6
150°	2.2	3.2	3.2	2.9	1.9	0.6
152.5°	1.6	2.9	2.9	2.6	1.6	0.6
155°	1.3	2.2	2.6	2.2	1.6	1.0
157.5°	1.0	1.9	2.2	2.2	1.6	1.0
160°	0.6	1.6	1.9	1.9	1.3	1.0
162.5°	0.3	1.3	1.6	1.9	1.3	1.0
165°	0.0	1.0	1.3	1.6	1.3	1.0
167.5°	0.0	0.6	1.0	1.3	1.0	1.0
170°	0.0	0.3	0.6	1.0	1.0	1.0
172.5°	0.0	0.0	0.3	0.6	0.6	1.0
175°	0.0	0.0	0.0	0.3	0.6	1.0
177.5°	0.0	0.0	0.0	0.3	0.6	1.0
180°	0.3	0.3	0.3	0.3	0.3	0.3



TEST NUMBER: P892618
 CATALOG NUMBER: 2MB-3SL-ASML-UNV-L935

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	19.30	20.76	19.76	21.19	21.65	21.47	22.93	21.92	23.36	23.81
	3H	20.13	21.44	20.59	21.89	22.38	23.14	24.45	23.60	24.90	25.40
	4H	20.33	21.57	20.82	22.03	22.55	23.95	25.19	24.44	25.65	26.16
	6H	20.42	21.57	20.92	22.05	22.58	24.78	25.93	25.28	26.41	26.93
	8H	20.42	21.52	20.94	22.02	22.56	25.22	26.32	25.73	26.82	27.35
	12H	20.41	21.47	20.93	21.96	22.52	25.70	26.76	26.22	27.25	27.81
4H	2H	19.73	20.97	20.22	21.43	21.94	21.84	23.08	22.33	23.54	24.05
	3H	20.83	21.87	21.33	22.38	22.91	23.69	24.74	24.19	25.24	25.78
	4H	21.16	22.11	21.69	22.63	23.20	24.64	25.59	25.16	26.10	26.67
	6H	21.36	22.19	21.90	22.73	23.32	25.63	26.47	26.18	27.01	27.59
	8H	21.38	22.16	21.93	22.71	23.30	26.16	26.94	26.71	27.49	28.08
	12H	21.39	22.09	21.96	22.67	23.27	26.76	27.47	27.33	28.04	28.64
8H	4H	21.48	22.26	22.03	22.81	23.40	24.78	25.56	25.33	26.10	26.70
	6H	21.80	22.46	22.38	23.04	23.65	25.91	26.57	26.49	27.15	27.76
	8H	21.89	22.48	22.49	23.08	23.70	26.56	27.15	27.15	27.75	28.36
	12H	21.95	22.47	22.54	23.06	23.74	27.32	27.84	27.91	28.43	29.11
12H	4H	21.56	22.26	22.12	22.83	23.43	24.77	25.48	25.34	26.05	26.65
	6H	21.93	22.52	22.53	23.12	23.74	25.93	26.52	26.52	27.12	27.73
	8H	22.09	22.62	22.69	23.20	23.89	26.63	27.15	27.22	27.74	28.42