

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: P892507

Luminaire Tested: 2MB-2SL-ASML-UNV-L940

Issue Date: 11/11/2024

**Test Information**

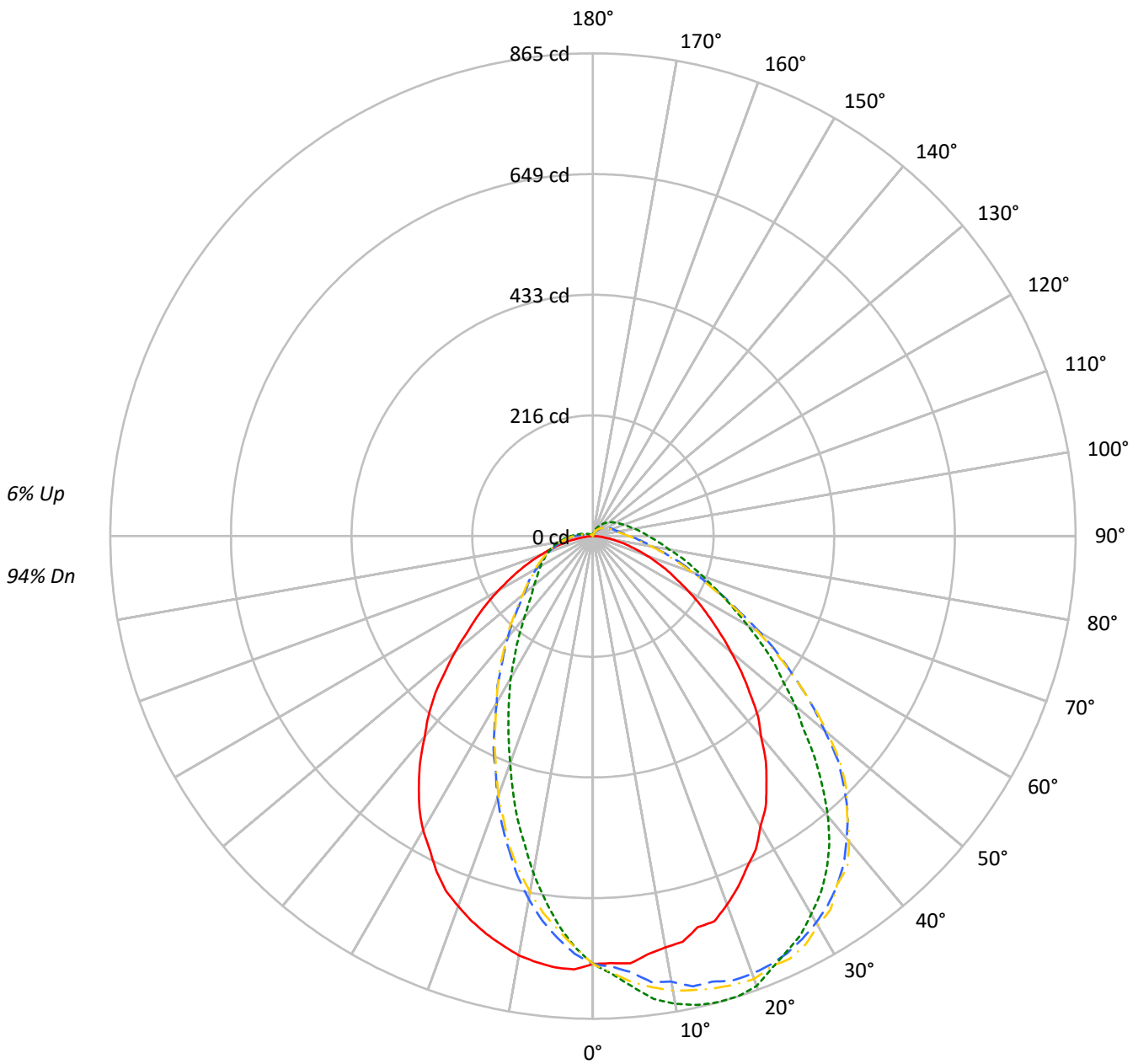
Test Method: LM-79-2019  
Report Number: P892507  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-33)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 2MB-2SL-ASML-UNV-L940  
Description: 2000 Lumen 2FT MICROBAY LINEAR BAY with ASYMMETRIC LENS, 90CRI, 4000K CCT  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1911.0 lumens  
Efficiency: N/A  
Efficacy: 128.3 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): 14.9  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: 0.996  
Total Harmonic Distortion (THDi): 5.92  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

TEST NUMBER: P892507  
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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
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°	15699	15699	15699	15699
5°	15714	15999	15863	13827
10°	15390	16340	15690	11785
15°	15130	16282	15386	9855
20°	14968	15960	15032	8061
25°	14353	15220	14551	6633
30°	13706	14545	13884	5479
35°	12982	13727	13018	4465
40°	11898	12558	11893	3662
45°	10832	11084	10887	3119
50°	9581	9674	9537	2819
55°	8386	8474	8327	2590
60°	7294	7227	7228	2448
65°	6320	6224	6170	2325
70°	5290	5454	5112	2222
75°	4213	4957	4097	2141
80°	3117	4461	2830	1993
85°	1951	4309	1569	1867

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 157.5°  
 Vertical Angle: 45°  
 Luminance: 15164 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.0	3.8
10°-20°	200.2	10.5
20°-30°	288.0	15.1
30°-40°	326.8	17.1
40°-50°	312.4	16.3
50°-60°	253.8	13.3
60°-70°	177.1	9.3
70°-80°	109.7	5.7
80°-90°	62.9	3.3
90°-100°	37.6	2.0
100°-110°	24.7	1.3
110°-120°	17.3	0.9
120°-130°	12.5	0.7
130°-140°	8.3	0.4
140°-150°	4.7	0.2
150°-160°	2.1	0.1
160°-170°	0.6	0.0
170°-180°	0.1	0.0
0°-30°	560.3	29.3
0°-40°	887.1	46.4
0°-60°	1453.3	76.0
0°-90°	1803.1	94.4
90°-120°	79.6	4.2
90°-150°	105.2	5.5
90°-180°	108.0	5.7
0°-180°	1911.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	767	767	767	767	767	
5°	769	810	776	700	769	72
15°	726	865	738	524	726	206
25°	654	822	663	358	654	302
35°	542	730	544	238	542	338
45°	398	563	400	158	398	307
55°	256	397	254	121	256	230
65°	148	258	145	96	148	147
75°	66	173	64	75	66	71
85°	14	117	12	51	14	16
90°	0	99	0	39	0	1
95°	1	86	0	30	1	1
105°	0	66	0	16	0	1
115°	0	53	0	9	0	0
125°	0	43	0	6	0	0
135°	0	34	0	4	0	0
145°	0	24	0	3	0	0
155°	1	15	0	2	1	0
165°	1	7	0	1	1	0
175°	1	0	0	0	1	0
180°	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	766.7	766.7	766.7	766.7	766.7	766.7	766.7	766.7	766.7	766.7	766.7
2.5°	766.0	771.7	772.2	790.3	785.1	791.8	783.3	784.8	777.3	775.3	749.2
5°	768.7	781.0	784.3	815.4	810.4	813.9	802.1	793.6	776.0	765.5	723.3
7.5°	755.7	788.1	806.1	828.2	836.5	839.3	815.4	799.6	770.5	744.6	695.2
10°	748.4	793.1	810.7	843.8	851.1	845.8	827.2	801.1	763.0	721.3	660.5
12.5°	744.4	795.8	826.5	860.4	860.6	855.1	833.3	805.1	750.7	696.2	623.9
15°	725.8	795.3	826.7	861.1	864.9	861.4	839.0	802.4	738.1	665.0	581.7
17.5°	723.8	794.1	834.8	870.9	864.6	862.1	842.5	801.1	723.0	633.4	542.0
20°	702.7	791.3	834.8	859.9	857.9	858.9	844.8	799.4	705.7	599.3	498.6
22.5°	680.4	788.1	831.2	850.3	838.3	856.6	834.8	794.6	688.1	563.6	455.4
25°	654.0	782.8	824.5	836.8	821.5	835.8	835.5	787.3	663.0	525.2	421.3
27.5°	632.7	774.5	813.4	832.0	805.9	818.2	825.2	778.5	633.4	487.3	381.1
30°	600.8	764.0	800.1	802.9	782.3	797.9	805.9	767.5	608.6	444.4	344.4
32.5°	576.4	751.9	783.8	780.0	759.4	780.0	793.1	756.4	578.9	406.7	318.6
35°	542.3	737.4	763.5	743.6	730.1	747.1	762.5	744.6	543.8	366.5	285.5
37.5°	509.1	724.5	739.1	714.5	695.9	715.0	748.6	722.5	508.4	334.7	260.8
40°	468.7	695.2	707.2	673.8	655.3	683.4	714.3	703.5	468.5	301.5	237.0
42.5°	438.1	673.3	676.8	631.2	609.1	638.9	674.1	676.3	436.1	271.6	215.9
45°	397.7	642.7	636.2	586.0	562.9	589.7	642.5	648.5	399.7	245.8	195.3
47.5°	361.3	608.6	595.8	537.0	511.2	543.0	601.5	617.3	359.0	221.9	176.0
50°	323.4	570.4	542.0	491.3	474.0	489.8	549.6	575.7	321.9	198.3	161.2
52.5°	288.7	528.2	493.1	447.6	430.3	443.4	495.1	534.2	284.9	178.5	148.1
55°	256.1	486.0	440.6	400.4	396.9	400.9	439.9	484.8	254.3	160.9	139.8
57.5°	227.0	434.8	393.4	363.8	357.5	360.8	387.6	433.8	224.7	143.4	127.8
60°	197.6	382.4	346.7	323.9	320.3	322.9	340.2	384.1	195.8	128.5	116.5
62.5°	171.0	329.6	298.0	289.5	287.0	287.0	294.2	334.4	168.7	113.5	108.0
65°	148.1	284.4	260.6	257.3	258.1	257.8	253.3	279.2	144.6	100.2	100.4
67.5°	125.0	236.5	223.2	227.2	230.2	229.0	219.4	232.2	122.0	88.1	93.6
70°	103.7	195.3	192.8	201.8	208.9	202.4	188.5	189.8	100.2	76.3	84.9
72.5°	83.6	157.9	169.5	182.0	188.8	181.5	162.4	156.9	80.6	65.5	76.8
75°	65.8	127.0	145.4	163.9	172.7	163.4	141.3	122.5	64.0	55.2	70.3
77.5°	50.2	100.7	124.3	145.9	154.4	146.4	123.0	95.7	46.9	46.4	63.3
80°	35.9	79.6	110.2	131.1	138.8	131.1	106.7	75.6	32.6	37.2	55.7
82.5°	23.6	61.5	95.9	119.3	127.8	118.2	92.6	58.2	20.8	30.1	50.2
85°	14.3	48.7	83.6	107.2	117.0	107.7	81.1	44.2	11.5	23.1	43.7
87.5°	6.3	37.7	74.6	98.9	107.7	99.2	72.3	34.6	4.8	18.1	37.4
90°	0.5	29.9	65.8	91.1	98.9	90.9	64.0	28.1	0.0	13.1	32.1
92.5°	0.5	25.6	60.3	84.4	93.1	84.1	57.7	23.1	0.0	9.5	27.1
95°	0.8	21.6	54.7	79.1	86.1	78.3	52.7	19.8	0.0	6.5	22.8
97.5°	0.8	19.6	50.2	73.8	81.6	73.3	48.2	17.8	0.0	4.8	18.6
100°	0.5	18.1	46.7	68.8	76.1	68.3	44.7	16.1	0.0	3.0	15.1
102.5°	0.5	16.8	43.7	64.5	70.3	63.8	41.7	15.1	0.0	2.5	12.3
105°	0.5	16.1	40.9	59.5	66.3	59.5	39.2	14.1	0.0	2.0	9.5
107.5°	0.5	15.1	38.9	56.7	62.3	56.2	37.2	13.3	0.0	2.0	7.8
110°	0.5	14.3	37.2	52.7	59.0	53.2	35.4	12.1	0.0	1.3	6.3



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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°	0.5	13.1	35.4	50.0	56.0	50.2	33.9	11.0	0.0	1.3	5.5
115°	0.5	11.8	33.9	48.2	52.7	47.7	32.4	9.8	0.0	1.0	5.0
117.5°	0.5	11.0	32.9	45.9	50.5	45.4	31.1	9.3	0.0	1.0	4.8
120°	0.5	10.5	31.4	43.7	47.2	43.2	29.6	8.8	0.0	1.0	4.5
122.5°	0.5	10.0	30.1	41.7	45.4	41.4	28.4	8.5	0.0	0.8	4.0
125°	0.5	9.5	28.4	39.4	42.9	38.9	26.1	8.3	0.0	0.5	3.5
127.5°	0.5	9.0	26.6	37.7	40.9	37.2	24.6	8.0	0.0	0.5	3.3
130°	0.5	8.8	24.4	35.4	38.7	34.9	22.8	8.0	0.0	0.5	3.0
132.5°	0.5	8.5	21.8	33.1	36.7	32.6	21.1	7.8	0.0	0.5	2.5
135°	0.5	8.3	19.3	30.9	34.1	30.4	19.6	7.5	0.0	0.5	2.3
137.5°	0.5	7.8	17.1	28.4	31.6	27.9	18.6	7.0	0.0	0.5	2.0
140°	0.5	7.3	15.3	26.4	29.1	25.6	17.1	6.5	0.0	0.3	1.5
142.5°	0.5	6.5	13.8	23.9	26.6	23.3	15.3	5.5	0.0	0.3	1.5
145°	0.5	5.8	12.6	20.8	24.1	20.8	14.3	5.0	0.0	0.3	1.3
147.5°	0.5	5.3	11.3	17.6	21.8	19.1	12.8	4.3	0.0	0.3	1.0
150°	0.5	4.8	9.8	14.8	19.3	16.8	11.8	3.8	0.0	0.0	0.8
152.5°	0.5	4.3	8.5	12.3	17.3	15.3	10.5	3.3	0.0	0.0	0.5
155°	0.8	4.0	7.3	10.8	15.1	13.3	8.8	2.8	0.0	0.0	0.5
157.5°	0.8	3.5	6.0	8.8	13.3	11.5	7.0	2.3	0.0	0.0	0.3
160°	0.8	3.3	5.0	6.8	11.0	9.5	5.8	1.8	0.0	0.0	0.3
162.5°	0.8	3.0	4.3	5.0	9.0	7.5	4.5	1.3	0.0	0.0	0.3
165°	0.8	2.5	3.8	3.5	7.0	5.8	3.5	0.8	0.0	0.0	0.0
167.5°	0.8	2.3	3.0	2.5	5.3	4.3	2.5	0.5	0.0	0.0	0.0
170°	0.8	1.8	2.5	1.8	1.5	2.8	1.5	0.3	0.0	0.0	0.0
172.5°	0.8	1.5	2.0	1.3	0.5	1.5	0.8	0.0	0.0	0.0	0.0
175°	0.8	1.3	1.3	0.8	0.3	0.5	0.0	0.0	0.0	0.0	0.0
177.5°	0.8	1.0	0.8	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°	766.7	766.7	766.7	766.7	766.7	766.7
2.5°	745.6	737.4	729.8	737.9	743.6	766.0
5°	709.2	700.4	701.5	708.7	728.1	768.7
7.5°	671.6	657.0	660.5	680.9	709.5	755.7
10°	627.1	613.8	617.1	647.7	687.9	748.4
12.5°	587.5	565.1	584.2	613.1	662.8	744.4
15°	541.0	523.5	533.7	576.4	638.7	725.8
17.5°	490.8	477.3	489.6	532.0	609.1	723.8
20°	452.2	433.3	447.9	494.6	572.4	702.7
22.5°	408.7	394.4	409.7	452.7	535.0	680.4
25°	373.1	358.0	373.3	416.0	501.9	654.0
27.5°	338.4	324.6	338.4	377.6	469.0	632.7
30°	308.0	294.7	308.8	346.5	430.6	600.8
32.5°	279.7	262.6	280.7	317.1	396.7	576.4
35°	250.3	237.5	251.1	291.5	359.0	542.3
37.5°	226.0	212.6	228.7	263.4	327.1	509.1
40°	202.9	191.1	203.9	240.8	300.0	468.7
42.5°	184.8	173.0	186.0	220.2	272.6	438.1
45°	167.2	158.4	169.0	197.6	245.0	397.7
47.5°	154.4	146.9	155.7	181.0	221.9	361.3
50°	143.4	138.1	144.4	164.4	198.1	323.4
52.5°	133.6	128.3	135.6	151.6	179.3	288.7
55°	126.0	121.3	126.8	139.6	160.4	256.1
57.5°	117.7	114.7	119.0	126.8	145.6	227.0
60°	111.7	108.5	113.0	119.3	128.8	197.6
62.5°	104.9	103.2	105.9	111.0	116.0	171.0
65°	98.9	96.4	99.9	101.7	101.2	148.1
67.5°	92.4	91.6	93.6	93.9	90.1	125.0
70°	85.6	85.1	87.6	86.1	78.3	103.7
72.5°	80.1	80.1	81.6	78.6	68.3	83.6
75°	74.1	74.6	75.8	72.3	57.5	65.8
77.5°	68.5	69.0	69.3	64.5	48.2	50.2
80°	62.3	62.0	64.5	58.5	39.2	35.9
82.5°	56.7	55.7	57.2	51.2	31.6	23.6
85°	50.5	50.7	51.7	44.7	25.4	14.3
87.5°	45.4	45.4	46.4	39.4	19.1	6.3
90°	39.4	38.9	40.4	33.4	14.3	0.5
92.5°	34.4	34.4	35.4	28.6	10.5	0.5
95°	29.4	29.6	30.4	23.6	8.0	0.8
97.5°	25.1	25.4	26.4	20.1	5.8	0.8
100°	21.3	21.6	22.1	16.1	4.5	0.5
102.5°	17.8	18.6	18.6	13.3	3.5	0.5
105°	15.1	16.1	15.6	10.8	3.3	0.5
107.5°	12.6	13.6	13.6	8.8	3.3	0.5
110°	10.3	11.8	11.5	7.5	2.5	0.5





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**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	8.8	10.0	9.3	6.5	2.5	0.5
115°	7.5	8.8	8.3	6.0	2.3	0.5
117.5°	6.8	7.5	7.5	5.8	2.3	0.5
120°	6.3	7.0	6.8	5.5	2.3	0.5
122.5°	5.8	6.3	6.3	5.0	2.0	0.5
125°	5.5	5.8	6.0	4.5	2.0	0.5
127.5°	5.3	5.8	5.8	4.3	1.8	0.5
130°	4.8	5.3	5.3	4.0	1.8	0.5
132.5°	4.3	4.8	4.8	3.8	1.8	0.5
135°	4.0	4.5	4.5	3.5	1.8	0.5
137.5°	3.8	4.0	4.0	3.3	1.8	0.5
140°	3.3	3.8	3.8	3.0	1.8	0.5
142.5°	3.0	3.5	3.5	2.8	1.5	0.5
145°	2.8	3.0	3.3	2.5	1.5	0.5
147.5°	2.3	2.8	3.0	2.3	1.5	0.5
150°	1.8	2.5	2.5	2.3	1.5	0.5
152.5°	1.3	2.3	2.3	2.0	1.3	0.5
155°	1.0	1.8	2.0	1.8	1.3	0.8
157.5°	0.8	1.5	1.8	1.8	1.3	0.8
160°	0.5	1.3	1.5	1.5	1.0	0.8
162.5°	0.3	1.0	1.3	1.5	1.0	0.8
165°	0.0	0.8	1.0	1.3	1.0	0.8
167.5°	0.0	0.5	0.8	1.0	0.8	0.8
170°	0.0	0.3	0.5	0.8	0.8	0.8
172.5°	0.0	0.0	0.3	0.5	0.5	0.8
175°	0.0	0.0	0.0	0.3	0.5	0.8
177.5°	0.0	0.0	0.0	0.3	0.5	0.8
180°	0.3	0.3	0.3	0.3	0.3	0.3



TEST NUMBER: P892507  
 CATALOG NUMBER: 2MB-2SL-ASML-UNV-L940

**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	18.45	19.91	18.91	20.34	20.80	20.62	22.08	21.07	22.51	22.96
	3H	19.28	20.59	19.74	21.04	21.53	22.29	23.60	22.75	24.05	24.54
	4H	19.48	20.72	19.97	21.18	21.70	23.10	24.34	23.59	24.80	25.31
	6H	19.57	20.72	20.07	21.20	21.73	23.93	25.08	24.43	25.56	26.08
	8H	19.57	20.67	20.09	21.17	21.71	24.37	25.47	24.88	25.97	26.50
	12H	19.56	20.62	20.08	21.11	21.67	24.85	25.91	25.37	26.40	26.96
4H	2H	18.88	20.12	19.37	20.58	21.09	20.99	22.23	21.48	22.69	23.20
	3H	19.97	21.02	20.48	21.53	22.06	22.84	23.88	23.34	24.39	24.93
	4H	20.31	21.26	20.84	21.78	22.35	23.79	24.73	24.31	25.25	25.82
	6H	20.51	21.34	21.05	21.88	22.47	24.78	25.61	25.33	26.16	26.74
	8H	20.53	21.31	21.08	21.86	22.45	25.31	26.09	25.86	26.64	27.23
	12H	20.54	21.24	21.11	21.82	22.42	25.91	26.62	26.48	27.19	27.79
8H	4H	20.63	21.41	21.18	21.96	22.55	23.93	24.71	24.48	25.25	25.85
	6H	20.95	21.61	21.53	22.19	22.80	25.06	25.72	25.64	26.30	26.90
	8H	21.04	21.63	21.64	22.23	22.84	25.71	26.30	26.30	26.90	27.51
	12H	21.10	21.62	21.69	22.21	22.89	26.47	26.99	27.06	27.58	28.26
12H	4H	20.70	21.41	21.27	21.98	22.58	23.92	24.63	24.49	25.20	25.80
	6H	21.08	21.67	21.68	22.27	22.89	25.08	25.66	25.67	26.27	26.88
	8H	21.24	21.77	21.84	22.35	23.03	25.78	26.30	26.37	26.89	27.57