

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: P892502

Luminaire Tested: 2MB-2SL-ASML-UNV-L835

Issue Date: 11/11/2024

**Test Information**

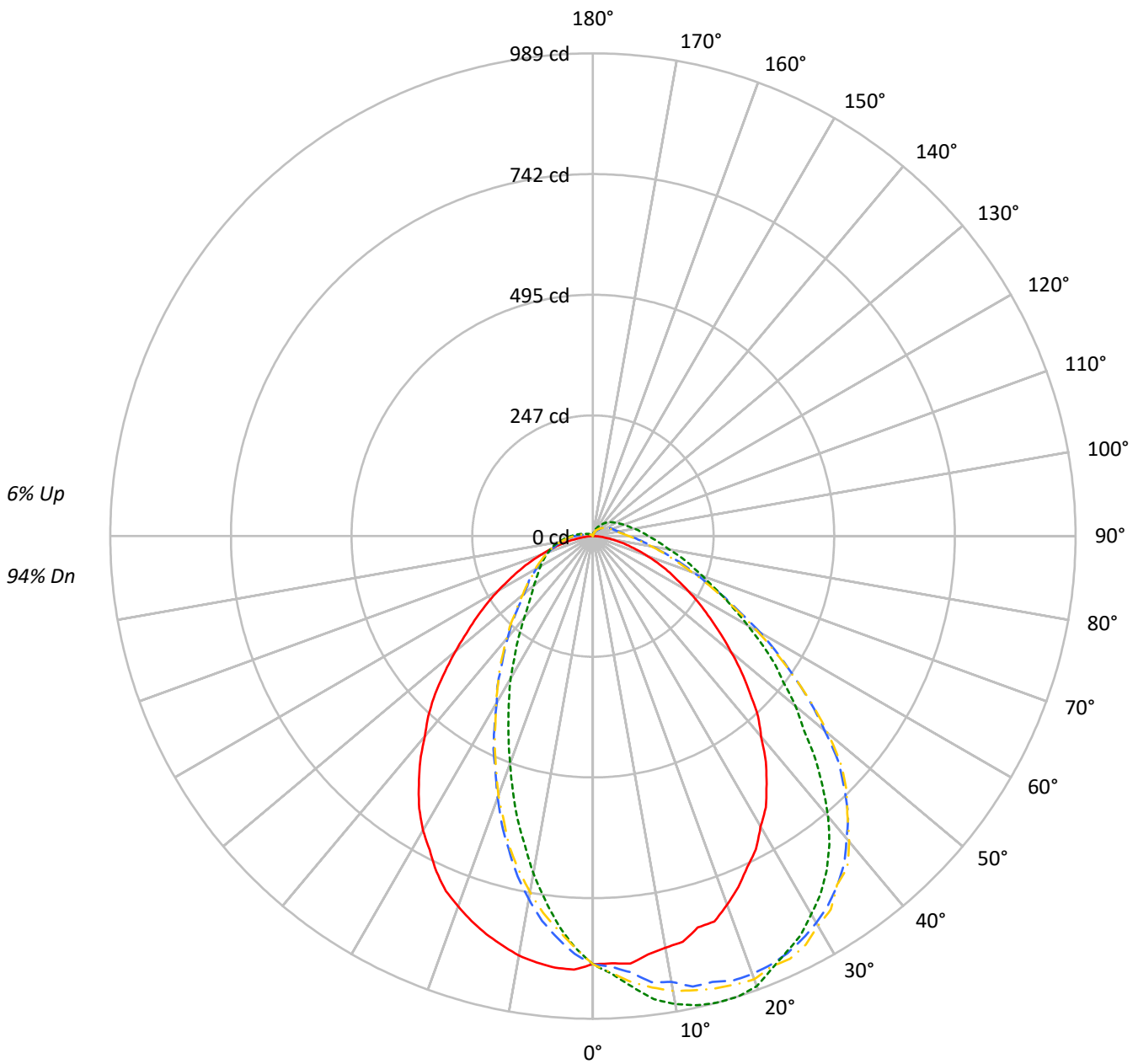
Test Method: LM-79-2019  
Report Number: P892502  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-33)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 2MB-2SL-ASML-UNV-L835  
Description: 2000 Lumen 2FT MICROBAY LINEAR BAY with ASYMMETRIC LENS, 80CRI, 3500K CCT  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2186.0 lumens  
Efficiency: N/A  
Efficacy: 146.7 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: P892502  
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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°	17960	17960	17960	17960
5°	17976	18301	18146	15817
10°	17604	18692	17948	13482
15°	17306	18624	17600	11272
20°	17122	18256	17196	9222
25°	16418	17410	16647	7587
30°	15677	16639	15880	6269
35°	14849	15701	14890	5108
40°	13611	14365	13604	4187
45°	12390	12679	12453	3568
50°	10959	11066	10908	3225
55°	9591	9693	9526	2961
60°	8343	8267	8269	2800
65°	7229	7119	7058	2660
70°	6050	6238	5846	2543
75°	4815	5672	4686	2448
80°	3568	5104	3238	2279
85°	2238	4928	1801	2136

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 157.5°  
 Vertical Angle: 45°  
 Luminance: 17345 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.4	3.8
10°-20°	229.1	10.5
20°-30°	329.5	15.1
30°-40°	373.9	17.1
40°-50°	357.3	16.3
50°-60°	290.3	13.3
60°-70°	202.6	9.3
70°-80°	125.5	5.7
80°-90°	72.0	3.3
90°-100°	43.0	2.0
100°-110°	28.3	1.3
110°-120°	19.8	0.9
120°-130°	14.3	0.7
130°-140°	9.5	0.4
140°-150°	5.4	0.2
150°-160°	2.4	0.1
160°-170°	0.7	0.0
170°-180°	0.1	0.0
0°-30°	640.9	29.3
0°-40°	1014.8	46.4
0°-60°	1662.5	76.1
0°-90°	2062.5	94.4
90°-120°	91.1	4.2
90°-150°	120.3	5.5
90°-180°	123.0	5.6
0°-180°	2186.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	877	877	877	877	877	
5°	879	927	888	801	879	83
15°	830	989	844	599	830	236
25°	748	940	758	410	748	345
35°	620	835	622	272	620	387
45°	455	644	457	181	455	351
55°	293	454	291	139	293	264
65°	169	295	165	110	169	168
75°	75	198	73	85	75	81
85°	16	134	13	58	16	18
90°	1	113	0	44	1	1
95°	1	98	0	34	1	1
105°	1	76	0	18	1	1
115°	1	60	0	10	1	1
125°	1	49	0	7	1	1
135°	1	39	0	5	1	0
145°	1	28	0	3	1	0
155°	1	17	0	2	1	0
165°	1	8	0	1	1	0
175°	1	0	0	0	1	0
180°	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°	877.1	877.1	877.1	877.1	877.1	877.1	877.1	877.1	877.1	877.1	877.1
2.5°	876.2	882.8	883.4	904.1	898.0	905.8	896.0	897.7	889.1	886.8	857.0
5°	879.4	893.4	897.2	932.8	927.0	931.1	917.6	907.8	887.7	875.6	827.4
7.5°	864.4	901.5	922.1	947.4	956.9	960.1	932.8	914.7	881.4	851.8	795.2
10°	856.1	907.2	927.3	965.2	973.6	967.5	946.3	916.4	872.8	825.1	755.6
12.5°	851.5	910.4	945.4	984.2	984.5	978.1	953.2	921.0	858.7	796.4	713.7
15°	830.2	909.8	945.7	985.0	989.3	985.3	959.8	917.8	844.3	760.8	665.4
17.5°	828.0	908.4	954.9	996.2	989.1	986.2	963.8	916.4	827.1	724.6	620.0
20°	803.8	905.2	954.9	983.6	981.3	982.5	966.4	914.4	807.3	685.5	570.3
22.5°	778.3	901.5	950.9	972.7	958.9	979.9	954.9	908.9	787.2	644.7	521.0
25°	748.1	895.4	943.1	957.2	939.7	956.0	955.7	900.6	758.5	600.8	481.9
27.5°	723.7	886.0	930.5	951.7	921.9	935.9	944.0	890.6	724.6	557.4	435.9
30°	687.2	873.9	915.3	918.4	894.9	912.7	921.9	877.9	696.1	508.3	394.0
32.5°	659.4	860.1	896.6	892.3	868.7	892.3	907.2	865.3	662.2	465.2	364.4
35°	620.3	843.5	873.3	850.6	835.1	854.7	872.2	851.8	622.0	419.3	326.5
37.5°	582.4	828.8	845.5	817.3	796.1	817.9	856.4	826.5	581.5	382.8	298.4
40°	536.2	795.2	809.0	770.8	749.6	781.7	817.0	804.7	535.9	344.9	271.1
42.5°	501.1	770.2	774.2	722.0	696.7	730.9	771.1	773.7	498.8	310.7	247.0
45°	454.9	735.2	727.7	670.3	643.9	674.6	734.9	741.8	457.2	281.2	223.4
47.5°	413.3	696.1	681.5	614.3	584.7	621.2	688.1	706.2	410.7	253.9	201.3
50°	369.9	652.5	620.0	562.0	542.2	560.3	628.6	658.5	368.2	226.9	184.4
52.5°	330.3	604.2	564.0	512.0	492.2	507.2	566.3	611.1	326.0	204.2	169.4
55°	292.9	556.0	504.0	458.1	454.0	458.6	503.1	554.6	290.9	184.1	160.0
57.5°	259.6	497.4	450.0	416.1	409.0	412.7	443.4	496.3	257.0	164.0	146.2
60°	226.0	437.4	396.6	370.5	366.4	369.3	389.1	439.4	224.0	147.0	133.3
62.5°	195.6	377.1	340.9	331.1	328.3	328.3	336.6	382.5	193.0	129.8	123.5
65°	169.4	325.4	298.1	294.4	295.2	294.9	289.8	319.3	165.4	114.6	114.9
67.5°	143.0	270.5	255.3	259.9	263.3	261.9	251.0	265.6	139.6	100.8	107.1
70°	118.6	223.4	220.6	230.9	238.9	231.5	215.7	217.1	114.6	87.3	97.1
72.5°	95.6	180.6	193.8	208.2	216.0	207.6	185.8	179.5	92.2	75.0	87.9
75°	75.2	145.3	166.3	187.5	197.6	187.0	161.7	140.1	73.2	63.2	80.4
77.5°	57.4	115.2	142.2	166.9	176.6	167.4	140.7	109.4	53.7	53.1	72.4
80°	41.1	91.0	126.1	149.9	158.8	149.9	122.1	86.4	37.3	42.5	63.8
82.5°	27.0	70.4	109.7	136.4	146.2	135.3	106.0	66.6	23.8	34.5	57.4
85°	16.4	55.7	95.6	122.6	133.8	123.2	92.8	50.5	13.2	26.4	50.0
87.5°	7.2	43.1	85.3	113.2	123.2	113.4	82.7	39.6	5.5	20.7	42.8
90°	0.6	34.2	75.2	104.2	113.2	104.0	73.2	32.2	0.0	14.9	36.8
92.5°	0.6	29.3	68.9	96.5	106.5	96.2	66.1	26.4	0.0	10.9	31.0
95°	0.9	24.7	62.6	90.5	98.5	89.6	60.3	22.7	0.0	7.5	26.1
97.5°	0.9	22.4	57.4	84.4	93.3	83.9	55.1	20.4	0.0	5.5	21.3
100°	0.6	20.7	53.4	78.7	87.0	78.1	51.1	18.4	0.0	3.4	17.2
102.5°	0.6	19.2	50.0	73.8	80.4	72.9	47.7	17.2	0.0	2.9	14.1
105°	0.6	18.4	46.8	68.1	75.8	68.1	44.8	16.1	0.0	2.3	10.9
107.5°	0.6	17.2	44.5	64.9	71.2	64.3	42.5	15.2	0.0	2.3	8.9
110°	0.6	16.4	42.5	60.3	67.5	60.9	40.5	13.8	0.0	1.4	7.2



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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	14.9	40.5	57.1	64.0	57.4	38.8	12.6	0.0	1.4	6.3
115°	0.6	13.5	38.8	55.1	60.3	54.6	37.0	11.2	0.0	1.1	5.7
117.5°	0.6	12.6	37.6	52.6	57.7	52.0	35.6	10.6	0.0	1.1	5.5
120°	0.6	12.1	35.9	50.0	54.0	49.4	33.9	10.1	0.0	1.1	5.2
122.5°	0.6	11.5	34.5	47.7	52.0	47.4	32.5	9.8	0.0	0.9	4.6
125°	0.6	10.9	32.5	45.1	49.1	44.5	29.9	9.5	0.0	0.6	4.0
127.5°	0.6	10.3	30.4	43.1	46.8	42.5	28.1	9.2	0.0	0.6	3.7
130°	0.6	10.1	27.9	40.5	44.2	39.9	26.1	9.2	0.0	0.6	3.4
132.5°	0.6	9.8	25.0	37.9	41.9	37.3	24.1	8.9	0.0	0.6	2.9
135°	0.6	9.5	22.1	35.3	39.1	34.7	22.4	8.6	0.0	0.6	2.6
137.5°	0.6	8.9	19.5	32.5	36.2	31.9	21.3	8.0	0.0	0.6	2.3
140°	0.6	8.3	17.5	30.2	33.3	29.3	19.5	7.5	0.0	0.3	1.7
142.5°	0.6	7.5	15.8	27.3	30.4	26.7	17.5	6.3	0.0	0.3	1.7
145°	0.6	6.6	14.4	23.8	27.6	23.8	16.4	5.7	0.0	0.3	1.4
147.5°	0.6	6.0	12.9	20.1	25.0	21.8	14.6	4.9	0.0	0.3	1.1
150°	0.6	5.5	11.2	16.9	22.1	19.2	13.5	4.3	0.0	0.0	0.9
152.5°	0.6	4.9	9.8	14.1	19.8	17.5	12.1	3.7	0.0	0.0	0.6
155°	0.9	4.6	8.3	12.3	17.2	15.2	10.1	3.2	0.0	0.0	0.6
157.5°	0.9	4.0	6.9	10.1	15.2	13.2	8.0	2.6	0.0	0.0	0.3
160°	0.9	3.7	5.7	7.8	12.6	10.9	6.6	2.0	0.0	0.0	0.3
162.5°	0.9	3.4	4.9	5.7	10.3	8.6	5.2	1.4	0.0	0.0	0.3
165°	0.9	2.9	4.3	4.0	8.0	6.6	4.0	0.9	0.0	0.0	0.0
167.5°	0.9	2.6	3.4	2.9	6.0	4.9	2.9	0.6	0.0	0.0	0.0
170°	0.9	2.0	2.9	2.0	1.7	3.2	1.7	0.3	0.0	0.0	0.0
172.5°	0.9	1.7	2.3	1.4	0.6	1.7	0.9	0.0	0.0	0.0	0.0
175°	0.9	1.4	1.4	0.9	0.3	0.6	0.0	0.0	0.0	0.0	0.0
177.5°	0.9	1.1	0.9	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°	877.1	877.1	877.1	877.1	877.1	877.1
2.5°	852.9	843.5	834.8	844.0	850.6	876.2
5°	811.3	801.2	802.4	810.7	832.8	879.4
7.5°	768.2	751.6	755.6	778.8	811.6	864.4
10°	717.4	702.2	705.9	740.9	786.9	856.1
12.5°	672.0	646.5	668.3	701.3	758.2	851.5
15°	618.9	598.8	610.6	659.4	730.6	830.2
17.5°	561.4	545.9	560.0	608.5	696.7	828.0
20°	517.2	495.7	512.3	565.8	654.8	803.8
22.5°	467.5	451.2	468.7	517.8	612.0	778.3
25°	426.8	409.5	427.0	475.9	574.1	748.1
27.5°	387.1	371.3	387.1	431.9	536.5	723.7
30°	352.4	337.2	353.2	396.3	492.5	687.2
32.5°	319.9	300.4	321.1	362.7	453.8	659.4
35°	286.3	271.7	287.2	333.4	410.7	620.3
37.5°	258.5	243.2	261.6	301.3	374.2	582.4
40°	232.0	218.5	233.2	275.4	343.2	536.2
42.5°	211.4	197.9	212.8	251.9	311.9	501.1
45°	191.3	181.2	193.3	226.0	280.3	454.9
47.5°	176.6	168.0	178.1	207.1	253.9	413.3
50°	164.0	158.0	165.1	188.1	226.6	369.9
52.5°	152.8	146.8	155.1	173.5	205.0	330.3
55°	144.2	138.7	145.0	159.7	183.5	292.9
57.5°	134.7	131.2	136.1	145.0	166.6	259.6
60°	127.8	124.1	129.2	136.4	147.3	226.0
62.5°	120.0	118.0	121.2	126.9	132.7	195.6
65°	113.2	110.3	114.3	116.3	115.7	169.4
67.5°	105.7	104.8	107.1	107.4	103.1	143.0
70°	97.9	97.4	100.2	98.5	89.6	118.6
72.5°	91.6	91.6	93.3	89.9	78.1	95.6
75°	84.7	85.3	86.7	82.7	65.8	75.2
77.5°	78.4	79.0	79.3	73.8	55.1	57.4
80°	71.2	70.9	73.8	66.9	44.8	41.1
82.5°	64.9	63.8	65.5	58.6	36.2	27.0
85°	57.7	58.0	59.2	51.1	29.0	16.4
87.5°	52.0	52.0	53.1	45.1	21.8	7.2
90°	45.1	44.5	46.2	38.2	16.4	0.6
92.5°	39.3	39.3	40.5	32.7	12.1	0.6
95°	33.6	33.9	34.7	27.0	9.2	0.9
97.5°	28.7	29.0	30.2	23.0	6.6	0.9
100°	24.4	24.7	25.3	18.4	5.2	0.6
102.5°	20.4	21.3	21.3	15.2	4.0	0.6
105°	17.2	18.4	17.8	12.3	3.7	0.6
107.5°	14.4	15.5	15.5	10.1	3.7	0.6
110°	11.8	13.5	13.2	8.6	2.9	0.6





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**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	10.1	11.5	10.6	7.5	2.9	0.6
115°	8.6	10.1	9.5	6.9	2.6	0.6
117.5°	7.8	8.6	8.6	6.6	2.6	0.6
120°	7.2	8.0	7.8	6.3	2.6	0.6
122.5°	6.6	7.2	7.2	5.7	2.3	0.6
125°	6.3	6.6	6.9	5.2	2.3	0.6
127.5°	6.0	6.6	6.6	4.9	2.0	0.6
130°	5.5	6.0	6.0	4.6	2.0	0.6
132.5°	4.9	5.5	5.5	4.3	2.0	0.6
135°	4.6	5.2	5.2	4.0	2.0	0.6
137.5°	4.3	4.6	4.6	3.7	2.0	0.6
140°	3.7	4.3	4.3	3.4	2.0	0.6
142.5°	3.4	4.0	4.0	3.2	1.7	0.6
145°	3.2	3.4	3.7	2.9	1.7	0.6
147.5°	2.6	3.2	3.4	2.6	1.7	0.6
150°	2.0	2.9	2.9	2.6	1.7	0.6
152.5°	1.4	2.6	2.6	2.3	1.4	0.6
155°	1.1	2.0	2.3	2.0	1.4	0.9
157.5°	0.9	1.7	2.0	2.0	1.4	0.9
160°	0.6	1.4	1.7	1.7	1.1	0.9
162.5°	0.3	1.1	1.4	1.7	1.1	0.9
165°	0.0	0.9	1.1	1.4	1.1	0.9
167.5°	0.0	0.6	0.9	1.1	0.9	0.9
170°	0.0	0.3	0.6	0.9	0.9	0.9
172.5°	0.0	0.0	0.3	0.6	0.6	0.9
175°	0.0	0.0	0.0	0.3	0.6	0.9
177.5°	0.0	0.0	0.0	0.3	0.6	0.9
180°	0.3	0.3	0.3	0.3	0.3	0.3



TEST NUMBER: P892502  
 CATALOG NUMBER: 2MB-2SL-ASML-UNV-L835

**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	18.92	20.38	19.37	20.81	21.27	21.08	22.54	21.54	22.97	23.43
	3H	19.74	21.06	20.21	21.50	22.00	22.75	24.07	23.22	24.51	25.01
	4H	19.95	21.19	20.44	21.65	22.16	23.56	24.81	24.05	25.27	25.78
	6H	20.04	21.19	20.54	21.67	22.19	24.40	25.55	24.90	26.02	26.55
	8H	20.04	21.14	20.56	21.64	22.17	24.83	25.93	25.35	26.43	26.97
	12H	20.03	21.08	20.55	21.57	22.14	25.32	26.38	25.84	26.87	27.43
4H	2H	19.35	20.59	19.83	21.05	21.56	21.45	22.70	21.94	23.16	23.67
	3H	20.44	21.49	20.94	21.99	22.53	23.31	24.35	23.81	24.86	25.39
	4H	20.78	21.73	21.30	22.25	22.82	24.25	25.20	24.78	25.72	26.29
	6H	20.97	21.80	21.52	22.35	22.93	25.25	26.08	25.79	26.63	27.21
	8H	21.00	21.78	21.55	22.32	22.92	25.78	26.56	26.33	27.10	27.70
	12H	21.01	21.71	21.58	22.28	22.88	26.38	27.08	26.95	27.66	28.26
8H	4H	21.10	21.88	21.65	22.42	23.02	24.40	25.18	24.95	25.72	26.32
	6H	21.42	22.07	22.00	22.66	23.26	25.53	26.18	26.11	26.77	27.37
	8H	21.51	22.10	22.10	22.70	23.31	26.17	26.76	26.77	27.36	27.98
	12H	21.57	22.09	22.16	22.68	23.36	26.93	27.46	27.53	28.04	28.73
12H	4H	21.17	21.87	21.74	22.45	23.05	24.39	25.09	24.96	25.67	26.27
	6H	21.55	22.14	22.15	22.74	23.35	25.54	26.13	26.14	26.73	27.35
	8H	21.71	22.23	22.30	22.82	23.50	26.25	26.77	26.84	27.36	28.04