

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: P892506

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892506
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-L935
Description: 2000 Lumen 2FT MICROBAY LINEAR BAY with ASYMMETRIC LENS, 90CRI, 3500K CCT
Light Source: -
Ballast/Driver: -

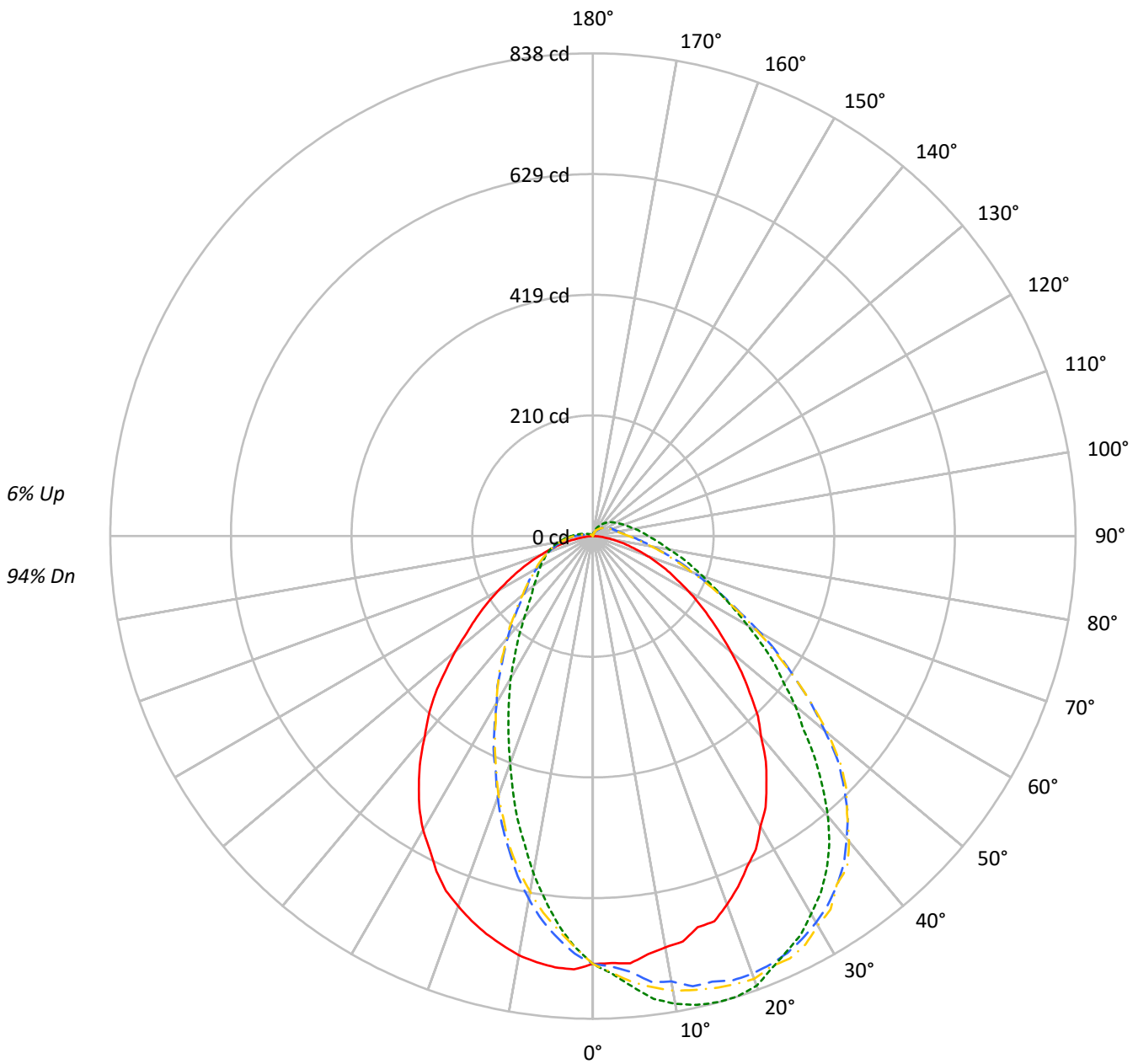
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1851.0 lumens
Efficiency: N/A
Efficacy: 124.2 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): 14.9
Input Voltage (V): 120
Input Current (A_{in}): 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

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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°	15208	15208	15208	15208
5°	15221	15497	15364	13395
10°	14906	15828	15196	11416
15°	14655	15770	14903	9544
20°	14497	15458	14561	7808
25°	13903	14742	14094	6425
30°	13274	14088	13448	5308
35°	12575	13295	12608	4324
40°	11525	12163	11520	3547
45°	10492	10736	10544	3021
50°	9279	9370	9234	2729
55°	8121	8209	8065	2509
60°	7065	7001	7003	2371
65°	6123	6029	5978	2252
70°	5122	5282	4949	2151
75°	4078	4802	3969	2072
80°	3021	4323	2743	1932
85°	1896	4173	1528	1808

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 157.5°

Vertical Angle: 45°

Luminance: 14687 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.8	3.8
10°-20°	194.0	10.5
20°-30°	279.0	15.1
30°-40°	316.6	17.1
40°-50°	302.6	16.3
50°-60°	245.8	13.3
60°-70°	171.5	9.3
70°-80°	106.3	5.7
80°-90°	61.0	3.3
90°-100°	36.4	2.0
100°-110°	23.9	1.3
110°-120°	16.8	0.9
120°-130°	12.1	0.7
130°-140°	8.1	0.4
140°-150°	4.6	0.2
150°-160°	2.0	0.1
160°-170°	0.6	0.0
170°-180°	0.1	0.0
0°-30°	542.7	29.3
0°-40°	859.3	46.4
0°-60°	1407.7	76.1
0°-90°	1746.5	94.4
90°-120°	77.1	4.2
90°-150°	101.9	5.5
90°-180°	105.0	5.7
0°-180°	1851.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	743	743	743	743	743	
5°	745	785	752	678	745	70
15°	703	838	715	507	703	200
25°	634	796	642	347	634	292
35°	525	707	527	230	525	327
45°	385	545	387	153	385	297
55°	248	384	246	118	248	223
65°	144	250	140	93	144	142
75°	64	167	62	72	64	69
85°	14	113	11	49	14	16
90°	0	96	0	38	0	1
95°	1	83	0	29	1	1
105°	0	64	0	16	0	1
115°	0	51	0	8	0	0
125°	0	42	0	6	0	0
135°	0	33	0	4	0	0
145°	0	23	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	



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CATALOG NUMBER: 2MB-2SL-ASML-UNV-L935

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	742.7	742.7	742.7	742.7	742.7	742.7	742.7	742.7	742.7	742.7	742.7
2.5°	741.9	747.5	748.0	765.5	760.4	767.0	758.7	760.2	752.9	750.9	725.6
5°	744.6	756.5	759.7	789.8	785.0	788.4	776.9	768.7	751.6	741.4	700.6
7.5°	732.0	763.3	780.8	802.2	810.3	812.9	789.8	774.5	746.3	721.3	673.3
10°	724.9	768.2	785.2	817.3	824.4	819.3	801.3	776.0	739.0	698.6	639.8
12.5°	721.0	770.9	800.5	833.4	833.6	828.2	807.1	779.9	727.1	674.3	604.3
15°	703.0	770.4	800.8	834.1	837.7	834.3	812.7	777.2	714.9	644.2	563.4
17.5°	701.1	769.2	808.6	843.6	837.5	835.1	816.1	776.0	700.3	613.5	525.0
20°	680.6	766.5	808.6	832.9	830.9	831.9	818.3	774.3	683.6	580.5	482.9
22.5°	659.0	763.3	805.1	823.6	812.0	829.7	808.6	769.6	666.5	545.9	441.1
25°	633.5	758.2	798.6	810.5	795.7	809.5	809.3	762.6	642.2	508.7	408.0
27.5°	612.8	750.2	787.9	805.9	780.6	792.5	799.3	754.1	613.5	472.0	369.1
30°	581.9	740.0	775.0	777.7	757.7	772.8	780.6	743.4	589.5	430.4	333.6
32.5°	558.3	728.3	759.2	755.5	735.6	755.5	768.2	732.7	560.8	393.9	308.6
35°	525.3	714.2	739.5	720.3	707.1	723.7	738.5	721.3	526.7	355.0	276.5
37.5°	493.2	701.8	715.9	692.1	674.1	692.6	725.1	699.9	492.4	324.2	252.7
40°	454.0	673.3	685.0	652.7	634.7	661.9	691.8	681.4	453.8	292.1	229.6
42.5°	424.3	652.2	655.6	611.3	589.9	618.9	652.9	655.1	422.4	263.1	209.1
45°	385.2	622.5	616.2	567.6	545.2	571.2	622.3	628.1	387.1	238.1	189.2
47.5°	349.9	589.5	577.1	520.1	495.1	526.0	582.6	598.0	347.7	215.0	170.5
50°	313.2	552.5	525.0	475.9	459.1	474.4	532.3	557.6	311.7	192.1	156.1
52.5°	279.6	511.6	477.6	433.6	416.8	429.4	479.5	517.5	276.0	172.9	143.5
55°	248.0	470.8	426.8	387.9	384.5	388.3	426.0	469.6	246.3	155.9	135.4
57.5°	219.8	421.2	381.1	352.4	346.3	349.4	375.5	420.2	217.6	138.9	123.8
60°	191.4	370.4	335.8	313.7	310.3	312.7	329.5	372.1	189.7	124.5	112.8
62.5°	165.6	319.3	288.6	280.4	277.9	277.9	285.0	323.9	163.4	109.9	104.6
65°	143.5	275.5	252.4	249.3	250.0	249.7	245.4	270.4	140.1	97.0	97.3
67.5°	121.1	229.1	216.2	220.1	223.0	221.8	212.5	224.9	118.2	85.4	90.7
70°	100.4	189.2	186.8	195.5	202.3	196.0	182.6	183.8	97.0	73.9	82.2
72.5°	81.0	153.0	164.1	176.3	182.9	175.8	157.3	152.0	78.1	63.5	74.4
75°	63.7	123.0	140.8	158.8	167.3	158.3	136.9	118.7	62.0	53.5	68.1
77.5°	48.6	97.5	120.4	141.3	149.6	141.8	119.2	92.6	45.5	45.0	61.3
80°	34.8	77.1	106.8	126.9	134.5	126.9	103.3	73.2	31.6	36.0	54.0
82.5°	22.9	59.6	92.9	115.5	123.8	114.5	89.7	56.4	20.2	29.2	48.6
85°	13.9	47.2	81.0	103.8	113.3	104.3	78.5	42.8	11.2	22.4	42.3
87.5°	6.1	36.5	72.2	95.8	104.3	96.1	70.0	33.6	4.6	17.5	36.2
90°	0.5	28.9	63.7	88.3	95.8	88.0	62.0	27.2	0.0	12.6	31.1
92.5°	0.5	24.8	58.4	81.7	90.2	81.5	55.9	22.4	0.0	9.2	26.3
95°	0.7	20.9	53.0	76.6	83.4	75.9	51.1	19.2	0.0	6.3	22.1
97.5°	0.7	19.0	48.6	71.5	79.0	71.0	46.7	17.3	0.0	4.6	18.0
100°	0.5	17.5	45.2	66.6	73.7	66.1	43.3	15.6	0.0	2.9	14.6
102.5°	0.5	16.3	42.3	62.5	68.1	61.8	40.4	14.6	0.0	2.4	11.9
105°	0.5	15.6	39.6	57.6	64.2	57.6	37.9	13.6	0.0	1.9	9.2
107.5°	0.5	14.6	37.7	55.0	60.3	54.5	36.0	12.9	0.0	1.9	7.5
110°	0.5	13.9	36.0	51.1	57.1	51.6	34.3	11.7	0.0	1.2	6.1



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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	12.6	34.3	48.4	54.2	48.6	32.8	10.7	0.0	1.2	5.3
115°	0.5	11.4	32.8	46.7	51.1	46.2	31.4	9.5	0.0	1.0	4.9
117.5°	0.5	10.7	31.9	44.5	48.9	44.0	30.2	9.0	0.0	1.0	4.6
120°	0.5	10.2	30.4	42.3	45.7	41.8	28.7	8.5	0.0	1.0	4.4
122.5°	0.5	9.7	29.2	40.4	44.0	40.1	27.5	8.3	0.0	0.7	3.9
125°	0.5	9.2	27.5	38.2	41.6	37.7	25.3	8.0	0.0	0.5	3.4
127.5°	0.5	8.8	25.8	36.5	39.6	36.0	23.8	7.8	0.0	0.5	3.2
130°	0.5	8.5	23.6	34.3	37.4	33.8	22.1	7.8	0.0	0.5	2.9
132.5°	0.5	8.3	21.2	32.1	35.5	31.6	20.4	7.5	0.0	0.5	2.4
135°	0.5	8.0	18.7	29.9	33.1	29.4	19.0	7.3	0.0	0.5	2.2
137.5°	0.5	7.5	16.5	27.5	30.6	27.0	18.0	6.8	0.0	0.5	1.9
140°	0.5	7.1	14.8	25.5	28.2	24.8	16.5	6.3	0.0	0.2	1.5
142.5°	0.5	6.3	13.4	23.1	25.8	22.6	14.8	5.3	0.0	0.2	1.5
145°	0.5	5.6	12.2	20.2	23.3	20.2	13.9	4.9	0.0	0.2	1.2
147.5°	0.5	5.1	10.9	17.0	21.2	18.5	12.4	4.1	0.0	0.2	1.0
150°	0.5	4.6	9.5	14.3	18.7	16.3	11.4	3.6	0.0	0.0	0.7
152.5°	0.5	4.1	8.3	11.9	16.8	14.8	10.2	3.2	0.0	0.0	0.5
155°	0.7	3.9	7.1	10.5	14.6	12.9	8.5	2.7	0.0	0.0	0.5
157.5°	0.7	3.4	5.8	8.5	12.9	11.2	6.8	2.2	0.0	0.0	0.2
160°	0.7	3.2	4.9	6.6	10.7	9.2	5.6	1.7	0.0	0.0	0.2
162.5°	0.7	2.9	4.1	4.9	8.8	7.3	4.4	1.2	0.0	0.0	0.2
165°	0.7	2.4	3.6	3.4	6.8	5.6	3.4	0.7	0.0	0.0	0.0
167.5°	0.7	2.2	2.9	2.4	5.1	4.1	2.4	0.5	0.0	0.0	0.0
170°	0.7	1.7	2.4	1.7	1.5	2.7	1.5	0.2	0.0	0.0	0.0
172.5°	0.7	1.5	1.9	1.2	0.5	1.5	0.7	0.0	0.0	0.0	0.0
175°	0.7	1.2	1.2	0.7	0.2	0.5	0.0	0.0	0.0	0.0	0.0
177.5°	0.7	1.0	0.7	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	742.7	742.7	742.7	742.7	742.7	742.7
2.5°	722.2	714.2	706.9	714.7	720.3	741.9
5°	687.0	678.5	679.4	686.5	705.2	744.6
7.5°	650.5	636.4	639.8	659.5	687.2	732.0
10°	607.4	594.6	597.7	627.4	666.3	724.9
12.5°	569.0	547.4	565.9	593.8	642.0	721.0
15°	524.0	507.0	517.0	558.3	618.6	703.0
17.5°	475.4	462.3	474.2	515.3	589.9	701.1
20°	438.0	419.7	433.8	479.1	554.4	680.6
22.5°	395.9	382.0	396.9	438.4	518.2	659.0
25°	361.4	346.8	361.6	402.9	486.1	633.5
27.5°	327.8	314.4	327.8	365.7	454.2	612.8
30°	298.4	285.5	299.1	335.6	417.0	581.9
32.5°	270.9	254.4	271.9	307.1	384.2	558.3
35°	242.4	230.0	243.2	282.3	347.7	525.3
37.5°	218.9	206.0	221.5	255.1	316.9	493.2
40°	196.5	185.1	197.5	233.2	290.6	454.0
42.5°	179.0	167.5	180.2	213.3	264.1	424.3
45°	162.0	153.4	163.7	191.4	237.3	385.2
47.5°	149.6	142.3	150.8	175.3	215.0	349.9
50°	138.9	133.7	139.8	159.3	191.9	313.2
52.5°	129.4	124.3	131.3	146.9	173.6	279.6
55°	122.1	117.5	122.8	135.2	155.4	248.0
57.5°	114.0	111.1	115.3	122.8	141.0	219.8
60°	108.2	105.1	109.4	115.5	124.7	191.4
62.5°	101.6	99.9	102.6	107.5	112.3	165.6
65°	95.8	93.4	96.8	98.5	98.0	143.5
67.5°	89.5	88.8	90.7	90.9	87.3	121.1
70°	82.9	82.4	84.9	83.4	75.9	100.4
72.5°	77.6	77.6	79.0	76.1	66.1	81.0
75°	71.7	72.2	73.4	70.0	55.7	63.7
77.5°	66.4	66.9	67.1	62.5	46.7	48.6
80°	60.3	60.1	62.5	56.7	37.9	34.8
82.5°	55.0	54.0	55.4	49.6	30.6	22.9
85°	48.9	49.1	50.1	43.3	24.6	13.9
87.5°	44.0	44.0	45.0	38.2	18.5	6.1
90°	38.2	37.7	39.2	32.3	13.9	0.5
92.5°	33.3	33.3	34.3	27.7	10.2	0.5
95°	28.5	28.7	29.4	22.9	7.8	0.7
97.5°	24.3	24.6	25.5	19.5	5.6	0.7
100°	20.7	20.9	21.4	15.6	4.4	0.5
102.5°	17.3	18.0	18.0	12.9	3.4	0.5
105°	14.6	15.6	15.1	10.5	3.2	0.5
107.5°	12.2	13.1	13.1	8.5	3.2	0.5
110°	10.0	11.4	11.2	7.3	2.4	0.5



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	8.5	9.7	9.0	6.3	2.4	0.5
115°	7.3	8.5	8.0	5.8	2.2	0.5
117.5°	6.6	7.3	7.3	5.6	2.2	0.5
120°	6.1	6.8	6.6	5.3	2.2	0.5
122.5°	5.6	6.1	6.1	4.9	1.9	0.5
125°	5.3	5.6	5.8	4.4	1.9	0.5
127.5°	5.1	5.6	5.6	4.1	1.7	0.5
130°	4.6	5.1	5.1	3.9	1.7	0.5
132.5°	4.1	4.6	4.6	3.6	1.7	0.5
135°	3.9	4.4	4.4	3.4	1.7	0.5
137.5°	3.6	3.9	3.9	3.2	1.7	0.5
140°	3.2	3.6	3.6	2.9	1.7	0.5
142.5°	2.9	3.4	3.4	2.7	1.5	0.5
145°	2.7	2.9	3.2	2.4	1.5	0.5
147.5°	2.2	2.7	2.9	2.2	1.5	0.5
150°	1.7	2.4	2.4	2.2	1.5	0.5
152.5°	1.2	2.2	2.2	1.9	1.2	0.5
155°	1.0	1.7	1.9	1.7	1.2	0.7
157.5°	0.7	1.5	1.7	1.7	1.2	0.7
160°	0.5	1.2	1.5	1.5	1.0	0.7
162.5°	0.2	1.0	1.2	1.5	1.0	0.7
165°	0.0	0.7	1.0	1.2	1.0	0.7
167.5°	0.0	0.5	0.7	1.0	0.7	0.7
170°	0.0	0.2	0.5	0.7	0.7	0.7
172.5°	0.0	0.0	0.2	0.5	0.5	0.7
175°	0.0	0.0	0.0	0.2	0.5	0.7
177.5°	0.0	0.0	0.0	0.2	0.5	0.7
180°	0.2	0.2	0.2	0.2	0.2	0.2



TEST NUMBER: P892506
 CATALOG NUMBER: 2MB-2SL-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	18.34	19.80	18.80	20.23	20.69	20.51	21.97	20.96	22.40	22.85
	3H	19.16	20.48	19.63	20.93	21.42	22.17	23.49	22.64	23.94	24.43
	4H	19.37	20.61	19.86	21.07	21.59	22.99	24.23	23.47	24.69	25.20
	6H	19.46	20.61	19.96	21.09	21.62	23.82	24.97	24.32	25.45	25.97
	8H	19.46	20.56	19.98	21.06	21.60	24.26	25.36	24.77	25.85	26.39
	12H	19.45	20.50	19.97	21.00	21.56	24.74	25.80	25.26	26.29	26.85
4H	2H	18.77	20.01	19.26	20.47	20.98	20.88	22.12	21.37	22.58	23.09
	3H	19.86	20.91	20.37	21.41	21.95	22.73	23.77	23.23	24.28	24.81
	4H	20.20	21.15	20.72	21.67	22.24	23.68	24.62	24.20	25.14	25.71
	6H	20.40	21.23	20.94	21.77	22.35	24.67	25.50	25.22	26.05	26.63
	8H	20.42	21.20	20.97	21.75	22.34	25.20	25.98	25.75	26.53	27.12
	12H	20.43	21.13	21.00	21.71	22.31	25.80	26.50	26.37	27.08	27.68
8H	4H	20.52	21.30	21.07	21.84	22.44	23.82	24.60	24.37	25.14	25.74
	6H	20.84	21.50	21.42	22.08	22.68	24.95	25.60	25.53	26.19	26.79
	8H	20.93	21.52	21.53	22.12	22.73	25.60	26.18	26.19	26.78	27.40
	12H	20.99	21.51	21.58	22.10	22.78	26.36	26.88	26.95	27.47	28.15
12H	4H	20.59	21.30	21.16	21.87	22.47	23.81	24.52	24.38	25.09	25.69
	6H	20.97	21.56	21.57	22.16	22.78	24.96	25.55	25.56	26.15	26.77
	8H	21.13	21.65	21.72	22.24	22.92	25.67	26.19	26.26	26.78	27.46