

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: P892505

Luminaire Tested: 2MB-2SL-ASML-UNV-L930

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892505
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-L930
Description: 2000 Lumen 2FT MICROBAY LINEAR BAY with ASYMMETRIC LENS, 90CRI, 3000K CCT
Light Source: -
Ballast/Driver: -

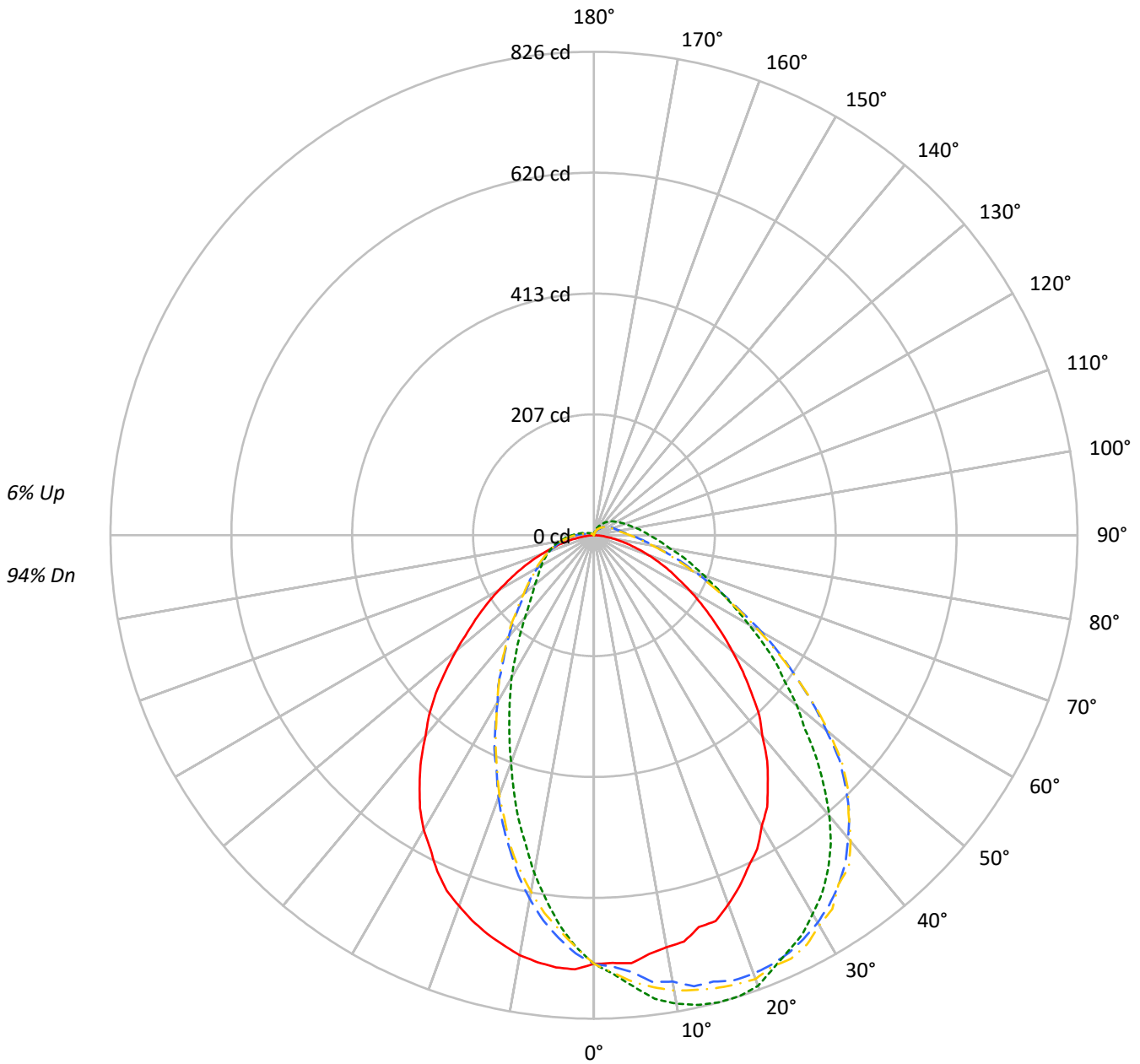
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1825.0 lumens
Efficiency: N/A
Efficacy: 122.5 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		
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
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°	14993	14993	14993	14993
5°	15006	15278	15149	13205
10°	14697	15605	14982	11255
15°	14448	15550	14694	9411
20°	14295	15242	14357	7698
25°	13708	14535	13897	6335
30°	13087	13891	13259	5234
35°	12398	13109	12431	4264
40°	11362	11992	11357	3497
45°	10345	10584	10397	2979
50°	9148	9239	9107	2692
55°	8010	8094	7954	2472
60°	6966	6902	6903	2337
65°	6038	5944	5893	2221
70°	5051	5209	4882	2123
75°	4021	4736	3912	2044
80°	2978	4262	2709	1903
85°	1869	4114	1501	1783

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 157.5°
 Vertical Angle: 45°
 Luminance: 14481 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.8	3.8
10°-20°	191.2	10.5
20°-30°	275.1	15.1
30°-40°	312.1	17.1
40°-50°	298.3	16.3
50°-60°	242.4	13.3
60°-70°	169.1	9.3
70°-80°	104.8	5.7
80°-90°	60.1	3.3
90°-100°	35.9	2.0
100°-110°	23.6	1.3
110°-120°	16.5	0.9
120°-130°	12.0	0.7
130°-140°	8.0	0.4
140°-150°	4.5	0.2
150°-160°	2.0	0.1
160°-170°	0.6	0.0
170°-180°	0.0	0.0
0°-30°	535.1	29.3
0°-40°	847.2	46.4
0°-60°	1387.9	76.0
0°-90°	1721.9	94.4
90°-120°	76.0	4.2
90°-150°	100.5	5.5
90°-180°	103.0	5.6
0°-180°	1825.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	732	732	732	732	732	
5°	734	774	741	669	734	69
15°	693	826	705	500	693	197
25°	625	784	633	342	625	288
35°	518	697	519	227	518	323
45°	380	538	382	151	380	293
55°	245	379	243	116	245	220
65°	142	246	138	92	142	140
75°	63	165	61	71	63	68
85°	14	112	11	48	14	15
90°	0	94	0	37	0	1
95°	1	82	0	28	1	1
105°	0	63	0	15	0	1
115°	0	50	0	8	0	0
125°	0	41	0	6	0	0
135°	0	33	0	4	0	0
145°	0	23	0	3	0	0
155°	1	14	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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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	732.2	732.2	732.2	732.2	732.2	732.2	732.2	732.2	732.2	732.2	732.2
2.5°	731.5	737.0	737.5	754.8	749.7	756.2	748.0	749.5	742.3	740.4	715.4
5°	734.1	745.9	749.0	778.7	773.9	777.3	766.0	757.9	741.1	731.0	690.7
7.5°	721.7	752.6	769.9	791.0	798.9	801.5	778.7	763.6	735.8	711.1	663.9
10°	714.7	757.4	774.2	805.8	812.8	807.7	790.0	765.1	728.6	688.8	630.8
12.5°	710.9	760.0	789.3	821.7	821.9	816.6	795.8	768.9	716.9	664.8	595.8
15°	693.1	759.6	789.5	822.4	826.0	822.6	801.3	766.3	704.9	635.1	555.5
17.5°	691.2	758.4	797.2	831.7	825.7	823.3	804.6	765.1	690.5	604.9	517.6
20°	671.1	755.7	797.2	821.2	819.3	820.2	806.8	763.4	674.0	572.3	476.2
22.5°	649.7	752.6	793.8	812.1	800.6	818.1	797.2	758.8	657.2	538.3	434.9
25°	624.6	747.6	787.4	799.1	784.5	798.2	797.9	751.9	633.2	501.6	402.3
27.5°	604.2	739.7	776.8	794.6	769.6	781.4	788.1	743.5	604.9	465.4	364.0
30°	573.7	729.6	764.1	766.7	747.1	762.0	769.6	732.9	581.2	424.4	328.9
32.5°	550.5	718.1	748.5	744.9	725.3	744.9	757.4	722.4	552.9	388.4	304.3
35°	517.9	704.2	729.1	710.2	697.2	713.5	728.1	711.1	519.3	350.0	272.6
37.5°	486.2	691.9	705.8	682.4	664.6	682.8	715.0	690.0	485.5	319.6	249.1
40°	447.6	663.9	675.4	643.5	625.8	652.6	682.1	671.8	447.4	287.9	226.3
42.5°	418.4	643.0	646.4	602.8	581.7	610.2	643.8	645.9	416.5	259.4	206.2
45°	379.8	613.8	607.5	559.6	537.5	563.2	613.5	619.3	381.7	234.7	186.5
47.5°	345.0	581.2	568.9	512.8	488.1	518.6	574.5	589.6	342.9	211.9	168.1
50°	308.8	544.7	517.6	469.2	452.7	467.8	524.8	549.8	307.4	189.4	153.9
52.5°	275.7	504.5	470.9	427.5	410.9	423.4	472.8	510.2	272.1	170.5	141.5
55°	244.6	464.2	420.8	382.4	379.1	382.9	420.1	463.0	242.9	153.7	133.5
57.5°	216.7	415.3	375.7	347.4	341.4	344.5	370.2	414.3	214.6	136.9	122.0
60°	188.7	365.2	331.1	309.3	305.9	308.3	324.9	366.8	187.0	122.8	111.2
62.5°	163.3	314.8	284.6	276.4	274.0	274.0	281.0	319.4	161.1	108.4	103.1
65°	141.5	271.6	248.9	245.8	246.5	246.2	241.9	266.6	138.1	95.7	95.9
67.5°	119.4	225.9	213.1	217.0	219.9	218.7	209.5	221.8	116.5	84.2	89.4
70°	99.0	186.5	184.1	192.8	199.5	193.2	180.1	181.3	95.7	72.9	81.0
72.5°	79.8	150.8	161.8	173.8	180.3	173.3	155.1	149.8	77.0	62.6	73.4
75°	62.8	121.3	138.8	156.6	165.0	156.1	135.0	117.0	61.1	52.7	67.1
77.5°	48.0	96.1	118.7	139.3	147.5	139.8	117.5	91.3	44.8	44.4	60.4
80°	34.3	76.0	105.3	125.2	132.6	125.2	101.9	72.2	31.2	35.5	53.2
82.5°	22.5	58.7	91.6	113.9	122.0	112.9	88.5	55.6	19.9	28.8	48.0
85°	13.7	46.5	79.8	102.4	111.7	102.9	77.4	42.2	11.0	22.1	41.7
87.5°	6.0	36.0	71.2	94.5	102.9	94.7	69.1	33.1	4.6	17.3	35.7
90°	0.5	28.5	62.8	87.0	94.5	86.8	61.1	26.9	0.0	12.5	30.7
92.5°	0.5	24.5	57.5	80.6	89.0	80.3	55.1	22.1	0.0	9.1	25.9
95°	0.7	20.6	52.3	75.5	82.2	74.8	50.3	18.9	0.0	6.2	21.8
97.5°	0.7	18.7	48.0	70.5	77.9	70.0	46.0	17.0	0.0	4.6	17.7
100°	0.5	17.3	44.6	65.7	72.6	65.2	42.7	15.3	0.0	2.9	14.4
102.5°	0.5	16.1	41.7	61.6	67.1	60.9	39.8	14.4	0.0	2.4	11.7
105°	0.5	15.3	39.1	56.8	63.3	56.8	37.4	13.4	0.0	1.9	9.1
107.5°	0.5	14.4	37.2	54.2	59.5	53.7	35.5	12.7	0.0	1.9	7.4
110°	0.5	13.7	35.5	50.3	56.3	50.8	33.8	11.5	0.0	1.2	6.0



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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°	0.5	12.5	33.8	47.7	53.5	48.0	32.4	10.5	0.0	1.2	5.3
115°	0.5	11.3	32.4	46.0	50.3	45.6	30.9	9.4	0.0	1.0	4.8
117.5°	0.5	10.5	31.4	43.9	48.2	43.4	29.7	8.9	0.0	1.0	4.6
120°	0.5	10.1	30.0	41.7	45.1	41.2	28.3	8.4	0.0	1.0	4.3
122.5°	0.5	9.6	28.8	39.8	43.4	39.6	27.1	8.2	0.0	0.7	3.8
125°	0.5	9.1	27.1	37.6	41.0	37.2	24.9	7.9	0.0	0.5	3.4
127.5°	0.5	8.6	25.4	36.0	39.1	35.5	23.5	7.7	0.0	0.5	3.1
130°	0.5	8.4	23.3	33.8	36.9	33.3	21.8	7.7	0.0	0.5	2.9
132.5°	0.5	8.2	20.9	31.6	35.0	31.2	20.1	7.4	0.0	0.5	2.4
135°	0.5	7.9	18.5	29.5	32.6	29.0	18.7	7.2	0.0	0.5	2.2
137.5°	0.5	7.4	16.3	27.1	30.2	26.6	17.7	6.7	0.0	0.5	1.9
140°	0.5	7.0	14.6	25.2	27.8	24.5	16.3	6.2	0.0	0.2	1.4
142.5°	0.5	6.2	13.2	22.8	25.4	22.3	14.6	5.3	0.0	0.2	1.4
145°	0.5	5.5	12.0	19.9	23.0	19.9	13.7	4.8	0.0	0.2	1.2
147.5°	0.5	5.0	10.8	16.8	20.9	18.2	12.2	4.1	0.0	0.2	1.0
150°	0.5	4.6	9.4	14.1	18.5	16.1	11.3	3.6	0.0	0.0	0.7
152.5°	0.5	4.1	8.2	11.7	16.5	14.6	10.1	3.1	0.0	0.0	0.5
155°	0.7	3.8	7.0	10.3	14.4	12.7	8.4	2.6	0.0	0.0	0.5
157.5°	0.7	3.4	5.8	8.4	12.7	11.0	6.7	2.2	0.0	0.0	0.2
160°	0.7	3.1	4.8	6.5	10.5	9.1	5.5	1.7	0.0	0.0	0.2
162.5°	0.7	2.9	4.1	4.8	8.6	7.2	4.3	1.2	0.0	0.0	0.2
165°	0.7	2.4	3.6	3.4	6.7	5.5	3.4	0.7	0.0	0.0	0.0
167.5°	0.7	2.2	2.9	2.4	5.0	4.1	2.4	0.5	0.0	0.0	0.0
170°	0.7	1.7	2.4	1.7	1.4	2.6	1.4	0.2	0.0	0.0	0.0
172.5°	0.7	1.4	1.9	1.2	0.5	1.4	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°	732.2	732.2	732.2	732.2	732.2	732.2
2.5°	712.1	704.2	697.0	704.6	710.2	731.5
5°	677.3	668.9	669.9	676.8	695.3	734.1
7.5°	641.4	627.4	630.8	650.2	677.6	721.7
10°	598.9	586.2	589.3	618.6	656.9	714.7
12.5°	561.0	539.7	557.9	585.5	633.0	710.9
15°	516.7	499.9	509.7	550.5	609.9	693.1
17.5°	468.7	455.8	467.5	508.0	581.7	691.2
20°	431.8	413.8	427.7	472.3	546.6	671.1
22.5°	390.3	376.7	391.3	432.3	510.9	649.7
25°	356.3	341.9	356.5	397.3	479.3	624.6
27.5°	323.2	310.0	323.2	360.6	447.9	604.2
30°	294.2	281.5	294.9	330.9	411.2	573.7
32.5°	267.1	250.8	268.0	302.8	378.8	550.5
35°	239.0	226.8	239.8	278.4	342.9	517.9
37.5°	215.8	203.1	218.4	251.5	312.4	486.2
40°	193.7	182.5	194.7	229.9	286.5	447.6
42.5°	176.5	165.2	177.7	210.3	260.4	418.4
45°	159.7	151.3	161.4	188.7	234.0	379.8
47.5°	147.5	140.3	148.6	172.9	211.9	345.0
50°	136.9	131.9	137.9	157.0	189.2	308.8
52.5°	127.6	122.5	129.5	144.8	171.2	275.7
55°	120.4	115.8	121.1	133.3	153.2	244.6
57.5°	112.4	109.6	113.6	121.1	139.1	216.7
60°	106.7	103.6	107.9	113.9	123.0	188.7
62.5°	100.2	98.5	101.2	106.0	110.8	163.3
65°	94.5	92.1	95.4	97.1	96.6	141.5
67.5°	88.2	87.5	89.4	89.7	86.1	119.4
70°	81.8	81.3	83.7	82.2	74.8	99.0
72.5°	76.5	76.5	77.9	75.0	65.2	79.8
75°	70.7	71.2	72.4	69.1	54.9	62.8
77.5°	65.5	65.9	66.2	61.6	46.0	48.0
80°	59.5	59.2	61.6	55.9	37.4	34.3
82.5°	54.2	53.2	54.7	48.9	30.2	22.5
85°	48.2	48.4	49.4	42.7	24.2	13.7
87.5°	43.4	43.4	44.4	37.6	18.2	6.0
90°	37.6	37.2	38.6	31.9	13.7	0.5
92.5°	32.8	32.8	33.8	27.3	10.1	0.5
95°	28.1	28.3	29.0	22.5	7.7	0.7
97.5°	24.0	24.2	25.2	19.2	5.5	0.7
100°	20.4	20.6	21.1	15.3	4.3	0.5
102.5°	17.0	17.7	17.7	12.7	3.4	0.5
105°	14.4	15.3	14.9	10.3	3.1	0.5
107.5°	12.0	12.9	12.9	8.4	3.1	0.5
110°	9.8	11.3	11.0	7.2	2.4	0.5



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	8.4	9.6	8.9	6.2	2.4	0.5
115°	7.2	8.4	7.9	5.8	2.2	0.5
117.5°	6.5	7.2	7.2	5.5	2.2	0.5
120°	6.0	6.7	6.5	5.3	2.2	0.5
122.5°	5.5	6.0	6.0	4.8	1.9	0.5
125°	5.3	5.5	5.8	4.3	1.9	0.5
127.5°	5.0	5.5	5.5	4.1	1.7	0.5
130°	4.6	5.0	5.0	3.8	1.7	0.5
132.5°	4.1	4.6	4.6	3.6	1.7	0.5
135°	3.8	4.3	4.3	3.4	1.7	0.5
137.5°	3.6	3.8	3.8	3.1	1.7	0.5
140°	3.1	3.6	3.6	2.9	1.7	0.5
142.5°	2.9	3.4	3.4	2.6	1.4	0.5
145°	2.6	2.9	3.1	2.4	1.4	0.5
147.5°	2.2	2.6	2.9	2.2	1.4	0.5
150°	1.7	2.4	2.4	2.2	1.4	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	1.4	1.7	1.7	1.2	0.7
160°	0.5	1.2	1.4	1.4	1.0	0.7
162.5°	0.2	1.0	1.2	1.4	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: P892505
 CATALOG NUMBER: 2MB-2SL-ASML-UNV-L930

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	18.29	19.75	18.75	20.18	20.64	20.46	21.92	20.91	22.35	22.80
	3H	19.12	20.43	19.58	20.88	21.37	22.13	23.44	22.59	23.89	24.38
	4H	19.32	20.56	19.81	21.02	21.54	22.94	24.18	23.43	24.64	25.15
	6H	19.41	20.56	19.91	21.04	21.57	23.77	24.92	24.27	25.40	25.92
	8H	19.41	20.51	19.93	21.01	21.55	24.21	25.31	24.72	25.81	26.34
	12H	19.40	20.46	19.92	20.95	21.51	24.69	25.75	25.21	26.24	26.80
4H	2H	18.72	19.96	19.21	20.42	20.93	20.83	22.07	21.32	22.53	23.04
	3H	19.82	20.86	20.32	21.37	21.90	22.68	23.72	23.18	24.23	24.77
	4H	20.15	21.10	20.68	21.62	22.19	23.63	24.58	24.15	25.09	25.66
	6H	20.35	21.18	20.89	21.72	22.31	24.62	25.46	25.17	26.00	26.58
	8H	20.37	21.15	20.92	21.70	22.29	25.15	25.93	25.70	26.48	27.07
	12H	20.38	21.08	20.95	21.66	22.26	25.75	26.46	26.32	27.03	27.63
8H	4H	20.47	21.25	21.02	21.80	22.39	23.77	24.55	24.32	25.09	25.69
	6H	20.79	21.45	21.37	22.03	22.64	24.90	25.56	25.48	26.14	26.75
	8H	20.88	21.47	21.48	22.07	22.68	25.55	26.14	26.14	26.74	27.35
	12H	20.94	21.46	21.53	22.05	22.73	26.31	26.83	26.90	27.42	28.10
12H	4H	20.55	21.25	21.11	21.82	22.42	23.76	24.47	24.33	25.04	25.64
	6H	20.92	21.51	21.52	22.11	22.73	24.92	25.51	25.51	26.11	26.72
	8H	21.08	21.61	21.68	22.19	22.88	25.62	26.14	26.21	26.73	27.41