

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: P892682

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892682
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-327-7)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 2MB-3SL-RND-UNV-L935
Description: 3000 Lumen 2FT MICROBAY LINEAR BAY with ROUND FROSTED LENS, 90CRI, 3500K CCT
Light Source: -
Ballast/Driver: -

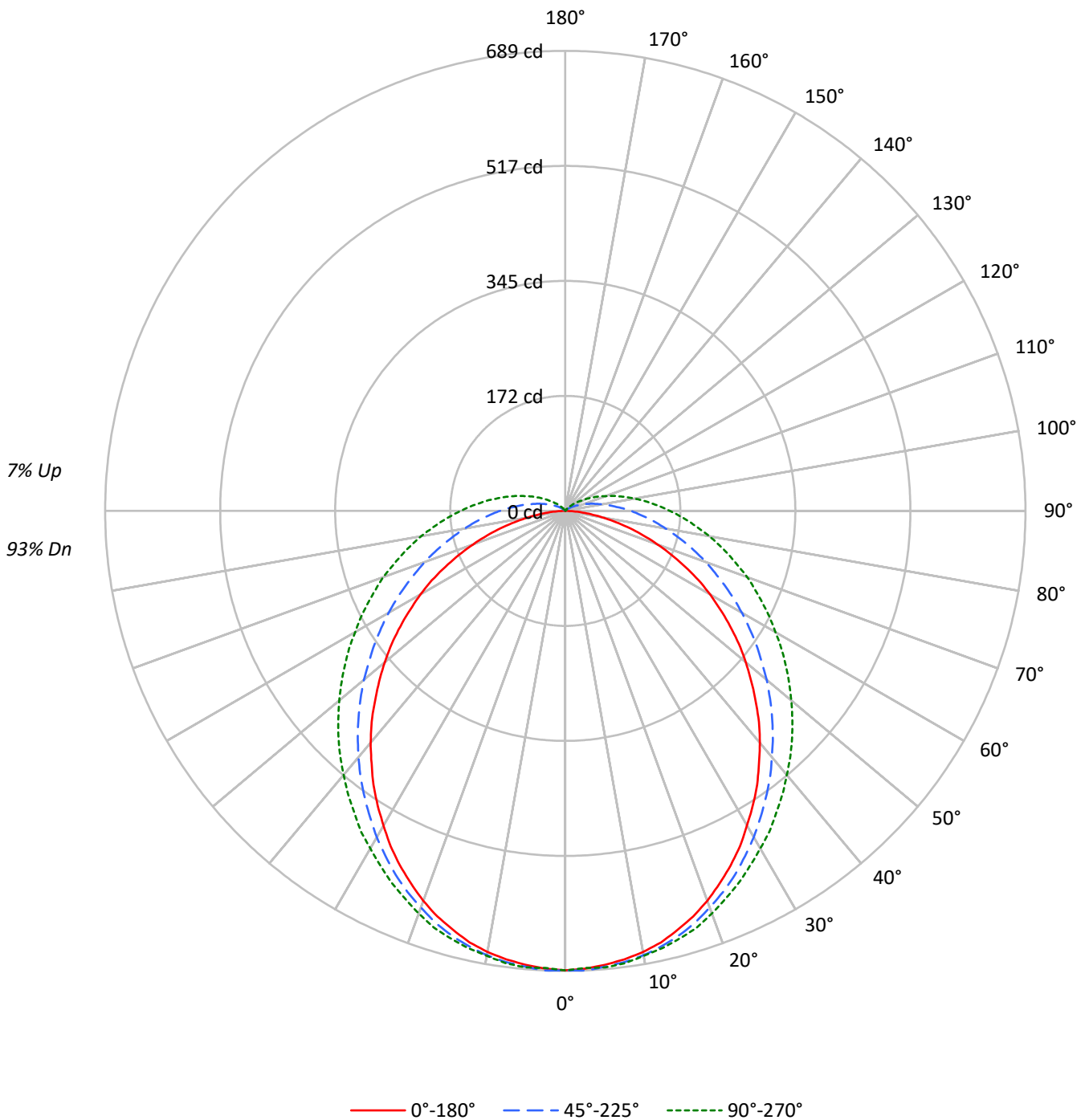
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2239.1 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.27 / 1.35
Luminous Opening: Rectangular (W 0.38' x L: 1.98' x H: 0')
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

TEST NUMBER: P892682
CATALOG NUMBER: 2MB-3SL-RND-UNV-L935

Luminous Intensity Polar Plot





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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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	96	96	96	93
1	105	100	95	90	102	97	92	88	91	87	84	86	83	80	81	79	77	77	77	77	74
2	95	86	79	72	92	84	77	71	79	73	68	75	70	66	70	67	63	63	63	63	61
3	87	75	67	60	83	73	65	59	69	62	57	65	60	55	62	57	53	53	53	53	50
4	79	67	57	50	76	65	56	50	61	54	48	58	52	47	55	50	45	45	45	45	43
5	73	59	50	43	70	58	49	43	55	47	41	52	46	40	50	44	39	39	39	39	37
6	67	53	44	38	65	52	43	37	49	42	36	47	40	35	45	39	34	34	34	34	32
7	62	48	39	33	60	47	39	33	45	37	32	43	36	31	41	35	31	31	31	31	28
8	58	44	35	29	56	43	35	29	41	34	29	39	33	28	38	32	27	27	27	27	25
9	54	40	32	26	52	40	32	26	38	31	26	36	30	25	35	29	25	25	25	25	23
10	51	37	29	24	49	37	29	24	35	28	23	34	27	23	32	27	22	22	22	22	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9844	9844	9844
5°	9798	9840	9854
10°	9743	9814	9827
15°	9619	9748	9819
20°	9460	9623	9769
25°	9245	9490	9703
30°	8988	9323	9644
35°	8742	9148	9621
40°	8465	8988	9638
45°	8153	8857	9717
50°	7852	8755	9830
55°	7520	8702	10051
60°	7161	8738	10397
65°	6706	8899	11025
70°	6144	9377	12125
75°	5555	10308	13995
80°	4696	12580	18075
85°	3808	20304	30612

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 87.5°
 Luminance: 56114 cd/sqm



TEST NUMBER: P892682
 CATALOG NUMBER: 2MB-3SL-RND-UNV-L935

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.0	2.9
10°-20°	185.2	8.3
20°-30°	276.1	12.3
30°-40°	327.6	14.6
40°-50°	338.6	15.1
50°-60°	312.5	14.0
60°-70°	259.4	11.6
70°-80°	192.2	8.6
80°-90°	126.7	5.7
90°-100°	77.0	3.4
100°-110°	43.6	1.9
110°-120°	21.7	1.0
120°-130°	9.0	0.4
130°-140°	2.9	0.1
140°-150°	0.9	0.0
150°-160°	0.4	0.0
160°-170°	0.3	0.0
170°-180°	0.1	0.0
0°-30°	526.3	23.5
0°-40°	853.9	38.1
0°-60°	1504.9	67.2
0°-90°	2083.3	93.0
90°-120°	142.3	6.4
90°-150°	155.1	6.9
90°-180°	156.0	7.0
0°-180°	2239.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	688	688	688	688	688	
5°	682	692	685	683	686	65
15°	650	660	658	660	663	183
25°	586	595	601	607	615	270
35°	501	511	524	540	551	313
45°	403	416	438	464	480	311
55°	302	315	349	384	403	270
65°	198	218	263	305	326	196
75°	100	131	186	233	253	106
85°	23	66	124	167	186	26
90°	0	44	98	139	157	1
95°	0	26	74	113	130	0
105°	0	9	42	71	84	0
115°	0	2	19	40	49	0
125°	0	1	8	18	24	0
135°	1	0	2	7	9	1
145°	1	1	1	2	2	1
155°	1	1	1	0	0	0
165°	1	1	1	1	0	0
175°	1	1	1	1	0	0
180°	1	1	1	1	1	



TEST NUMBER: P892682

CATALOG NUMBER: 2MB-3SL-RND-UNV-L935

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	688.1	688.1	688.1	688.1	688.1	688.1	688.1	688.1	688.1	688.1	688.1
2.5°	686.2	684.3	685.2	685.2	688.1	695.9	693.0	693.0	693.0	685.2	689.1
5°	682.3	680.4	681.4	682.3	684.3	692.0	689.1	690.1	689.1	681.4	685.2
7.5°	677.5	675.6	675.6	676.5	679.4	687.2	684.3	685.2	684.3	676.5	681.4
10°	670.7	668.8	669.8	670.7	672.7	681.4	678.5	678.5	678.5	671.7	675.6
12.5°	662.0	660.1	661.1	662.0	664.9	671.7	668.8	669.8	669.8	664.0	667.8
15°	649.5	647.5	649.5	650.4	653.3	660.1	658.2	659.1	659.1	653.3	658.2
17.5°	636.9	634.0	635.9	636.9	640.8	646.6	644.6	646.6	646.6	640.8	646.6
20°	621.4	618.5	620.5	622.4	625.3	631.1	629.2	631.1	631.1	626.3	632.1
22.5°	604.0	601.2	603.1	605.0	608.9	613.7	612.7	614.7	614.7	610.8	617.6
25°	585.7	582.8	585.7	586.7	590.5	595.4	595.4	596.3	597.3	594.4	601.2
27.5°	566.4	562.5	565.4	567.3	571.2	576.0	576.0	578.0	578.0	577.0	582.8
30°	544.1	541.2	545.1	546.1	549.9	554.8	555.7	557.7	557.7	556.7	564.4
32.5°	522.9	520.0	522.9	524.8	529.6	533.5	534.5	536.4	537.4	537.4	544.1
35°	500.6	497.7	500.6	502.6	507.4	511.3	512.2	514.2	515.1	517.1	523.8
37.5°	476.5	474.5	477.4	479.4	484.2	488.1	489.0	491.9	492.9	495.8	503.5
40°	453.3	450.4	453.3	455.2	461.0	463.9	465.8	468.7	470.7	473.6	481.3
42.5°	429.1	427.2	429.1	433.0	436.8	440.7	442.6	445.5	448.4	453.3	460.0
45°	403.0	403.0	405.0	408.8	412.7	415.6	418.5	422.4	425.3	430.1	437.8
47.5°	377.9	377.9	379.8	382.7	387.6	390.5	393.4	398.2	401.1	406.9	415.6
50°	352.8	351.8	354.7	358.6	363.4	366.3	369.2	374.0	377.9	384.7	393.4
52.5°	327.6	325.7	328.6	333.4	337.3	341.2	344.1	348.9	353.7	362.4	370.2
55°	301.5	300.6	303.5	307.3	312.2	315.1	318.9	324.7	330.5	339.2	348.9
57.5°	275.4	275.4	278.3	282.2	288.0	290.9	294.8	301.5	307.3	317.0	326.7
60°	250.3	249.4	252.3	258.0	262.9	266.7	270.6	278.3	285.1	295.7	305.4
62.5°	225.2	224.2	228.1	232.0	238.7	242.6	246.5	255.2	262.9	274.5	284.1
65°	198.1	199.1	202.0	205.9	213.6	218.4	223.3	232.9	241.6	252.3	262.9
67.5°	172.0	172.0	175.9	180.7	190.4	195.2	200.1	210.7	219.4	232.0	242.6
70°	146.9	147.9	152.7	157.5	167.2	172.0	177.8	189.4	199.1	211.7	224.2
72.5°	122.7	124.7	128.5	136.3	145.9	150.8	157.5	169.1	178.8	192.3	204.9
75°	100.5	101.5	106.3	115.0	125.6	131.4	137.2	149.8	161.4	174.0	186.5
77.5°	77.3	79.3	85.1	94.7	107.3	113.1	118.9	132.4	144.0	156.6	169.1
80°	57.0	59.0	66.7	76.4	89.9	95.7	102.4	116.0	127.6	140.1	152.7
82.5°	38.7	41.6	49.3	59.9	73.5	80.2	87.0	100.5	113.1	125.6	138.2
85°	23.2	26.1	34.8	46.4	59.9	65.7	72.5	87.0	98.6	111.1	123.7
87.5°	9.7	14.5	23.2	34.8	47.4	53.2	60.9	74.4	86.0	97.6	110.2
90°	0.0	5.8	14.5	25.1	37.7	43.5	49.3	62.8	74.4	86.0	97.6
92.5°	0.0	1.9	8.7	17.4	29.0	33.8	39.6	52.2	62.8	74.4	86.0
95°	0.0	1.0	4.8	12.6	21.3	26.1	31.9	43.5	53.2	64.8	74.4
97.5°	0.0	0.0	2.9	8.7	16.4	20.3	25.1	35.8	45.4	55.1	65.7
100°	0.0	0.0	1.9	5.8	11.6	15.5	19.3	29.0	37.7	47.4	56.1
102.5°	0.0	0.0	1.0	3.9	8.7	11.6	14.5	23.2	30.9	39.6	48.3
105°	0.0	0.0	1.0	1.9	5.8	8.7	11.6	18.4	25.1	32.9	41.6
107.5°	0.0	0.0	0.0	1.9	4.8	6.8	8.7	14.5	20.3	27.1	34.8
110°	0.0	0.0	0.0	1.0	2.9	4.8	6.8	11.6	16.4	22.2	29.0



TEST NUMBER: P892682

CATALOG NUMBER: 2MB-3SL-RND-UNV-L935

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	0.0	0.0	0.0	1.0	1.9	2.9	4.8	8.7	12.6	18.4	23.2
115°	0.0	0.0	0.0	0.0	1.0	1.9	2.9	6.8	9.7	14.5	19.3
117.5°	0.0	0.0	0.0	0.0	1.0	1.9	1.9	4.8	7.7	11.6	15.5
120°	0.0	0.0	0.0	0.0	1.0	1.0	1.9	3.9	5.8	8.7	12.6
122.5°	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.9	3.9	6.8	9.7
125°	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.9	2.9	4.8	7.7
127.5°	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.9	3.9	5.8
130°	1.0	0.0	0.0	0.0	1.0	0.0	1.0	1.0	1.9	2.9	3.9
132.5°	1.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.9	2.9
135°	1.0	1.0	0.0	0.0	1.0	0.0	0.0	1.0	1.0	1.0	1.9
137.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.9
140°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
142.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
145°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
147.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
150°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
152.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
155°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
157.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
160°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
162.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
165°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
167.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
170°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
172.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
175°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
177.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
180°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0



TEST NUMBER: P892682
 CATALOG NUMBER: 2MB-3SL-RND-UNV-L935

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	688.1	688.1	688.1	688.1	688.1	688.1	688.1	688.1	688.1	688.1
2.5°	689.1	681.4	686.2	685.2	684.3	682.3	687.2	683.3	685.2	685.2
5°	686.2	678.5	684.3	684.3	683.3	681.4	686.2	682.3	685.2	686.2
7.5°	681.4	675.6	681.4	680.4	680.4	678.5	683.3	680.4	683.3	683.3
10°	675.6	669.8	675.6	674.6	674.6	672.7	676.5	673.6	676.5	676.5
12.5°	667.8	662.0	668.8	667.8	666.9	665.9	669.8	666.9	670.7	670.7
15°	658.2	654.3	661.1	660.1	660.1	658.2	663.0	660.1	664.0	663.0
17.5°	647.5	643.7	650.4	650.4	649.5	649.5	652.4	649.5	654.3	654.3
20°	633.0	629.2	636.9	636.9	635.9	635.9	638.8	635.9	641.7	641.7
22.5°	617.6	614.7	621.4	622.4	621.4	621.4	624.3	622.4	628.2	628.2
25°	601.2	600.2	606.9	607.9	606.9	607.9	610.8	608.9	614.7	614.7
27.5°	583.8	583.8	590.5	591.5	592.5	592.5	595.4	593.4	600.2	599.2
30°	565.4	565.4	573.1	575.1	575.1	576.0	578.9	577.0	583.8	583.8
32.5°	546.1	547.0	554.8	557.7	557.7	559.6	561.5	560.6	567.3	569.3
35°	526.7	527.7	536.4	539.3	540.3	541.2	544.1	544.1	549.9	550.9
37.5°	504.5	508.4	516.1	520.0	520.9	522.9	525.8	525.8	532.5	534.5
40°	483.2	488.1	496.8	500.6	501.6	503.5	507.4	507.4	514.2	516.1
42.5°	462.9	468.7	476.5	482.3	483.2	486.1	488.1	490.0	496.8	498.7
45°	440.7	447.5	456.2	462.0	463.9	466.8	468.7	471.6	477.4	480.3
47.5°	419.5	426.2	435.9	442.6	443.6	447.5	449.4	452.3	458.1	461.0
50°	397.2	405.9	415.6	423.3	424.3	427.2	430.1	433.0	438.8	441.7
52.5°	376.0	384.7	394.3	402.1	404.0	406.9	409.8	412.7	419.5	422.4
55°	354.7	363.4	373.1	381.8	383.7	386.6	389.5	393.4	400.1	403.0
57.5°	333.4	343.1	352.8	361.5	363.4	367.3	370.2	374.0	379.8	383.7
60°	313.1	322.8	333.4	342.1	343.1	348.9	350.8	354.7	360.5	363.4
62.5°	291.9	304.4	313.1	322.8	324.7	328.6	331.5	335.4	341.2	345.0
65°	271.6	284.1	292.8	302.5	305.4	309.3	312.2	316.0	321.8	325.7
67.5°	252.3	264.8	274.5	284.1	287.0	289.9	293.8	297.7	302.5	307.3
70°	233.9	247.4	256.1	265.8	268.7	272.5	276.4	279.3	285.1	289.9
72.5°	215.5	229.1	237.8	248.4	250.3	254.2	258.0	261.9	266.7	270.6
75°	197.2	210.7	220.4	230.0	232.9	236.8	240.7	244.5	249.4	253.2
77.5°	179.8	193.3	203.0	213.6	215.5	219.4	224.2	228.1	232.0	235.8
80°	163.3	176.9	186.5	196.2	199.1	203.0	206.8	211.7	215.5	219.4
82.5°	148.8	161.4	170.1	180.7	182.7	186.5	190.4	194.3	198.1	202.0
85°	134.3	146.9	155.6	165.3	167.2	171.1	174.9	178.8	183.6	186.5
87.5°	120.8	132.4	142.1	150.8	152.7	156.6	160.4	163.3	167.2	171.1
90°	108.2	119.8	128.5	137.2	139.2	143.0	145.9	149.8	153.7	156.6
92.5°	95.7	107.3	115.0	123.7	125.6	129.5	133.4	136.3	140.1	143.0
95°	85.1	95.7	103.4	112.1	113.1	116.9	120.8	123.7	127.6	129.5
97.5°	74.4	85.1	92.8	100.5	101.5	105.3	109.2	112.1	115.0	117.9
100°	64.8	74.4	82.2	88.9	90.8	93.7	97.6	100.5	103.4	105.3
102.5°	56.1	64.8	71.5	79.3	80.2	84.1	87.0	89.9	92.8	94.7
105°	48.3	57.0	62.8	69.6	70.6	74.4	77.3	80.2	83.1	84.1
107.5°	41.6	48.3	54.1	60.9	62.8	64.8	67.7	70.6	73.5	74.4
110°	34.8	41.6	47.4	52.2	54.1	57.0	59.0	61.9	63.8	64.8



TEST NUMBER: P892682
 CATALOG NUMBER: 2MB-3SL-RND-UNV-L935

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	29.0	34.8	39.6	45.4	46.4	49.3	51.2	53.2	56.1	57.0
115°	24.2	30.0	33.8	38.7	39.6	41.6	44.5	46.4	48.3	49.3
117.5°	20.3	24.2	28.0	31.9	33.8	35.8	37.7	39.6	40.6	41.6
120°	16.4	20.3	23.2	27.1	28.0	30.0	31.9	32.9	34.8	35.8
122.5°	12.6	16.4	19.3	22.2	23.2	25.1	26.1	28.0	29.0	29.0
125°	9.7	12.6	15.5	17.4	18.4	20.3	21.3	23.2	24.2	24.2
127.5°	7.7	9.7	11.6	14.5	14.5	16.4	17.4	18.4	19.3	19.3
130°	5.8	7.7	9.7	10.6	11.6	12.6	13.5	14.5	15.5	15.5
132.5°	3.9	5.8	6.8	8.7	8.7	9.7	10.6	10.6	11.6	11.6
135°	2.9	3.9	4.8	5.8	6.8	6.8	7.7	8.7	8.7	8.7
137.5°	1.9	2.9	3.9	4.8	4.8	4.8	5.8	5.8	6.8	6.8
140°	1.0	1.9	1.9	2.9	2.9	3.9	3.9	3.9	4.8	4.8
142.5°	1.0	1.0	1.9	1.9	1.9	1.9	2.9	2.9	2.9	2.9
145°	1.0	1.0	1.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9
147.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.9	1.9
150°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
152.5°	1.0	1.0	1.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0
155°	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
160°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0
162.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0
165°	1.0	1.0	1.0	1.0	1.0	0.0	0.0	1.0	0.0	0.0
167.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0
170°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0
172.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	1.0	0.0
175°	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
177.5°	1.0	1.0	1.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0
180°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0



TEST NUMBER: P892682
 CATALOG NUMBER: 2MB-3SL-RND-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	18.02	19.56	18.49	20.01	20.50	19.80	21.33	20.26	21.79	22.27
	3H	19.65	21.05	20.13	21.52	22.04	22.38	23.78	22.86	24.24	24.77
	4H	20.23	21.56	20.74	22.04	22.58	23.68	25.00	24.18	25.49	26.02
	6H	20.63	21.87	21.15	22.37	22.92	25.07	26.31	25.58	26.80	27.36
	8H	20.75	21.94	21.28	22.46	23.02	25.81	26.99	26.33	27.51	28.07
	12H	20.83	21.96	21.36	22.48	23.07	26.65	27.78	27.18	28.30	28.89
4H	2H	19.00	20.33	19.50	20.81	21.35	20.34	21.67	20.84	22.15	22.69
	3H	20.93	22.06	21.45	22.59	23.15	23.22	24.35	23.73	24.88	25.44
	4H	21.69	22.73	22.23	23.27	23.86	24.73	25.77	25.26	26.30	26.90
	6H	22.26	23.18	22.82	23.74	24.35	26.35	27.27	26.91	27.83	28.44
	8H	22.44	23.31	23.00	23.87	24.49	27.22	28.08	27.78	28.65	29.26
	12H	22.57	23.35	23.15	23.94	24.57	28.21	28.99	28.79	29.58	30.21
8H	4H	22.59	23.45	23.15	24.02	24.64	25.08	25.94	25.64	26.51	27.13
	6H	23.46	24.20	24.06	24.80	25.43	26.97	27.70	27.56	28.30	28.93
	8H	23.81	24.47	24.42	25.09	25.73	28.03	28.70	28.64	29.31	29.95
	12H	24.08	24.67	24.68	25.27	25.98	29.28	29.87	29.88	30.47	31.18
12H	4H	22.87	23.66	23.45	24.25	24.87	25.12	25.90	25.70	26.49	27.12
	6H	23.91	24.58	24.52	25.19	25.83	27.07	27.73	27.67	28.35	28.98
	8H	24.43	25.02	25.03	25.62	26.33	28.25	28.84	28.85	29.44	30.15