

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: P892571

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

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892571
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-2SL-RND-UNV-L940
Description: 2000 Lumen 2FT MICROBAY LINEAR BAY with ROUND FROSTED LENS, 90CRI, 4000K CCT
Light Source: -
Ballast/Driver: -

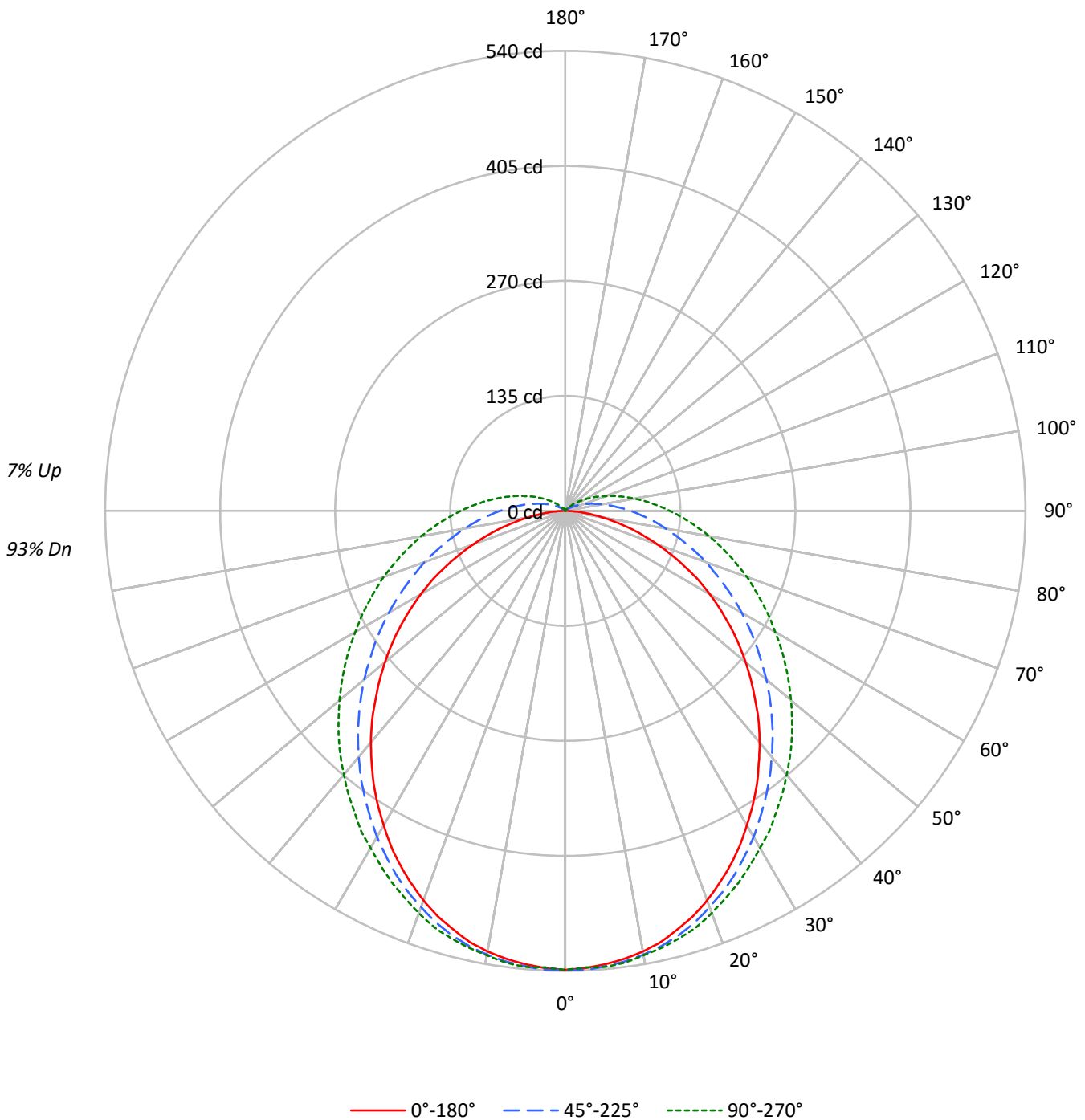
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1753.1 lumens
Efficiency: N/A
Efficacy: 117.7 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): 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





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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	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°	7708	7708	7708
5°	7671	7704	7716
10°	7628	7683	7695
15°	7531	7632	7688
20°	7408	7534	7648
25°	7239	7430	7597
30°	7037	7300	7549
35°	6846	7162	7532
40°	6628	7037	7546
45°	6383	6935	7609
50°	6147	6855	7696
55°	5889	6814	7869
60°	5608	6841	8140
65°	5250	6966	8632
70°	4810	7345	9495
75°	4350	8070	10960
80°	3674	9853	14153
85°	2987	15905	23964

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 87.5°
 Luminance: 43914 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.9	2.9
10°-20°	145.0	8.3
20°-30°	216.2	12.3
30°-40°	256.5	14.6
40°-50°	265.1	15.1
50°-60°	244.7	14.0
60°-70°	203.1	11.6
70°-80°	150.5	8.6
80°-90°	99.2	5.7
90°-100°	60.3	3.4
100°-110°	34.1	1.9
110°-120°	17.0	1.0
120°-130°	7.1	0.4
130°-140°	2.3	0.1
140°-150°	0.7	0.0
150°-160°	0.3	0.0
160°-170°	0.2	0.0
170°-180°	0.1	0.0
0°-30°	412.0	23.5
0°-40°	668.5	38.1
0°-60°	1178.3	67.2
0°-90°	1631.1	93.0
90°-120°	111.4	6.4
90°-150°	121.4	6.9
90°-180°	122.0	7.0
0°-180°	1753.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	539	539	539	539	539	
5°	534	542	536	535	537	51
15°	508	517	515	517	519	143
25°	459	466	471	475	481	211
35°	392	400	410	423	431	245
45°	316	325	343	363	376	244
55°	236	247	273	300	316	211
65°	155	171	206	239	255	154
75°	79	103	146	182	198	83
85°	18	52	97	131	146	20
90°	0	34	76	109	123	1
95°	0	20	58	88	101	0
105°	0	7	32	55	66	0
115°	0	2	15	31	39	0
125°	0	1	6	14	19	0
135°	1	0	2	5	7	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: P892571
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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	538.8	538.8	538.8	538.8	538.8	538.8	538.8	538.8	538.8	538.8	538.8
2.5°	537.3	535.7	536.5	536.5	538.8	544.8	542.5	542.5	542.5	536.5	539.5
5°	534.2	532.7	533.5	534.2	535.7	541.8	539.5	540.3	539.5	533.5	536.5
7.5°	530.4	528.9	528.9	529.7	532.0	538.0	535.7	536.5	535.7	529.7	533.5
10°	525.1	523.6	524.4	525.1	526.7	533.5	531.2	531.2	531.2	525.9	528.9
12.5°	518.3	516.8	517.6	518.3	520.6	525.9	523.6	524.4	524.4	519.8	522.9
15°	508.5	507.0	508.5	509.3	511.5	516.8	515.3	516.1	516.1	511.5	515.3
17.5°	498.7	496.4	497.9	498.7	501.7	506.2	504.7	506.2	506.2	501.7	506.2
20°	486.6	484.3	485.8	487.3	489.6	494.1	492.6	494.1	494.1	490.3	494.9
22.5°	472.9	470.7	472.2	473.7	476.7	480.5	479.7	481.3	481.3	478.2	483.5
25°	458.6	456.3	458.6	459.3	462.3	466.1	466.1	466.9	467.6	465.4	470.7
27.5°	443.4	440.4	442.7	444.2	447.2	451.0	451.0	452.5	452.5	451.7	456.3
30°	426.0	423.7	426.8	427.5	430.6	434.3	435.1	436.6	436.6	435.9	441.9
32.5°	409.4	407.1	409.4	410.9	414.7	417.7	418.5	420.0	420.7	420.7	426.0
35°	392.0	389.7	392.0	393.5	397.3	400.3	401.0	402.6	403.3	404.8	410.1
37.5°	373.1	371.5	373.8	375.3	379.1	382.1	382.9	385.2	385.9	388.2	394.2
40°	354.9	352.6	354.9	356.4	360.9	363.2	364.7	367.0	368.5	370.8	376.8
42.5°	336.0	334.5	336.0	339.0	342.0	345.1	346.6	348.8	351.1	354.9	360.2
45°	315.5	315.5	317.1	320.1	323.1	325.4	327.6	330.7	332.9	336.7	342.8
47.5°	295.9	295.9	297.4	299.7	303.4	305.7	308.0	311.8	314.0	318.6	325.4
50°	276.2	275.4	277.7	280.7	284.5	286.8	289.1	292.8	295.9	301.2	308.0
52.5°	256.5	255.0	257.3	261.1	264.1	267.1	269.4	273.2	277.0	283.8	289.8
55°	236.1	235.3	237.6	240.6	244.4	246.7	249.7	254.2	258.8	265.6	273.2
57.5°	215.7	215.7	217.9	221.0	225.5	227.8	230.8	236.1	240.6	248.2	255.8
60°	196.0	195.2	197.5	202.0	205.8	208.8	211.9	217.9	223.2	231.5	239.1
62.5°	176.3	175.6	178.6	181.6	186.9	189.9	193.0	199.8	205.8	214.9	222.5
65°	155.1	155.9	158.1	161.2	167.2	171.0	174.8	182.4	189.2	197.5	205.8
67.5°	134.7	134.7	137.7	141.5	149.1	152.9	156.6	165.0	171.8	181.6	189.9
70°	115.0	115.8	119.6	123.3	130.9	134.7	139.2	148.3	155.9	165.7	175.6
72.5°	96.1	97.6	100.6	106.7	114.3	118.0	123.3	132.4	140.0	150.6	160.4
75°	78.7	79.5	83.2	90.0	98.4	102.9	107.5	117.3	126.4	136.2	146.0
77.5°	60.5	62.0	66.6	74.2	84.0	88.5	93.1	103.7	112.7	122.6	132.4
80°	44.6	46.2	52.2	59.8	70.4	74.9	80.2	90.8	99.9	109.7	119.6
82.5°	30.3	32.5	38.6	46.9	57.5	62.8	68.1	78.7	88.5	98.4	108.2
85°	18.2	20.4	27.2	36.3	46.9	51.5	56.8	68.1	77.2	87.0	96.9
87.5°	7.6	11.4	18.2	27.2	37.1	41.6	47.7	58.3	67.3	76.4	86.3
90°	0.0	4.5	11.4	19.7	29.5	34.1	38.6	49.2	58.3	67.3	76.4
92.5°	0.0	1.5	6.8	13.6	22.7	26.5	31.0	40.9	49.2	58.3	67.3
95°	0.0	0.8	3.8	9.8	16.6	20.4	25.0	34.1	41.6	50.7	58.3
97.5°	0.0	0.0	2.3	6.8	12.9	15.9	19.7	28.0	35.6	43.1	51.5
100°	0.0	0.0	1.5	4.5	9.1	12.1	15.1	22.7	29.5	37.1	43.9
102.5°	0.0	0.0	0.8	3.0	6.8	9.1	11.4	18.2	24.2	31.0	37.8
105°	0.0	0.0	0.8	1.5	4.5	6.8	9.1	14.4	19.7	25.7	32.5
107.5°	0.0	0.0	0.0	1.5	3.8	5.3	6.8	11.4	15.9	21.2	27.2
110°	0.0	0.0	0.0	0.8	2.3	3.8	5.3	9.1	12.9	17.4	22.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	0.0	0.0	0.0	0.8	1.5	2.3	3.8	6.8	9.8	14.4	18.2
115°	0.0	0.0	0.0	0.0	0.8	1.5	2.3	5.3	7.6	11.4	15.1
117.5°	0.0	0.0	0.0	0.0	0.8	1.5	1.5	3.8	6.1	9.1	12.1
120°	0.0	0.0	0.0	0.0	0.8	0.8	1.5	3.0	4.5	6.8	9.8
122.5°	0.0	0.0	0.0	0.0	0.8	0.8	0.8	1.5	3.0	5.3	7.6
125°	0.0	0.0	0.0	0.0	0.0	0.8	0.8	1.5	2.3	3.8	6.1
127.5°	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	1.5	3.0	4.5
130°	0.8	0.0	0.0	0.0	0.8	0.0	0.8	0.8	1.5	2.3	3.0
132.5°	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	1.5	2.3
135°	0.8	0.8	0.0	0.0	0.8	0.0	0.0	0.8	0.8	0.8	1.5
137.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.5
140°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
142.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
145°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
147.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
150°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
152.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
155°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
157.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
160°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
162.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
165°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
167.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
170°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
172.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
175°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
177.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
180°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	538.8	538.8	538.8	538.8	538.8	538.8	538.8	538.8	538.8	538.8
2.5°	539.5	533.5	537.3	536.5	535.7	534.2	538.0	535.0	536.5	536.5
5°	537.3	531.2	535.7	535.7	535.0	533.5	537.3	534.2	536.5	537.3
7.5°	533.5	528.9	533.5	532.7	532.7	531.2	535.0	532.7	535.0	535.0
10°	528.9	524.4	528.9	528.2	528.2	526.7	529.7	527.4	529.7	529.7
12.5°	522.9	518.3	523.6	522.9	522.1	521.4	524.4	522.1	525.1	525.1
15°	515.3	512.3	517.6	516.8	516.8	515.3	519.1	516.8	519.8	519.1
17.5°	507.0	504.0	509.3	509.3	508.5	508.5	510.8	508.5	512.3	512.3
20°	495.6	492.6	498.7	498.7	497.9	497.9	500.2	497.9	502.4	502.4
22.5°	483.5	481.3	486.6	487.3	486.6	486.6	488.8	487.3	491.9	491.9
25°	470.7	469.9	475.2	476.0	475.2	476.0	478.2	476.7	481.3	481.3
27.5°	457.0	457.0	462.3	463.1	463.9	463.9	466.1	464.6	469.9	469.2
30°	442.7	442.7	448.7	450.2	450.2	451.0	453.3	451.7	457.0	457.0
32.5°	427.5	428.3	434.3	436.6	436.6	438.1	439.6	438.9	444.2	445.7
35°	412.4	413.2	420.0	422.2	423.0	423.7	426.0	426.0	430.6	431.3
37.5°	395.0	398.0	404.1	407.1	407.9	409.4	411.6	411.6	416.9	418.5
40°	378.3	382.1	388.9	392.0	392.7	394.2	397.3	397.3	402.6	404.1
42.5°	362.5	367.0	373.1	377.6	378.3	380.6	382.1	383.6	388.9	390.5
45°	345.1	350.3	357.2	361.7	363.2	365.5	367.0	369.3	373.8	376.1
47.5°	328.4	333.7	341.3	346.6	347.3	350.3	351.9	354.1	358.7	360.9
50°	311.0	317.8	325.4	331.4	332.2	334.5	336.7	339.0	343.5	345.8
52.5°	294.4	301.2	308.7	314.8	316.3	318.6	320.8	323.1	328.4	330.7
55°	277.7	284.5	292.1	298.9	300.4	302.7	304.9	308.0	313.3	315.5
57.5°	261.1	268.6	276.2	283.0	284.5	287.5	289.8	292.8	297.4	300.4
60°	245.2	252.7	261.1	267.9	268.6	273.2	274.7	277.7	282.2	284.5
62.5°	228.5	238.4	245.2	252.7	254.2	257.3	259.5	262.6	267.1	270.1
65°	212.6	222.5	229.3	236.8	239.1	242.1	244.4	247.4	252.0	255.0
67.5°	197.5	207.3	214.9	222.5	224.7	227.0	230.0	233.1	236.8	240.6
70°	183.1	193.7	200.5	208.1	210.4	213.4	216.4	218.7	223.2	227.0
72.5°	168.7	179.3	186.1	194.5	196.0	199.0	202.0	205.1	208.8	211.9
75°	154.4	165.0	172.5	180.1	182.4	185.4	188.4	191.4	195.2	198.3
77.5°	140.7	151.3	158.9	167.2	168.7	171.8	175.6	178.6	181.6	184.6
80°	127.9	138.5	146.0	153.6	155.9	158.9	161.9	165.7	168.7	171.8
82.5°	116.5	126.4	133.2	141.5	143.0	146.0	149.1	152.1	155.1	158.1
85°	105.2	115.0	121.8	129.4	130.9	133.9	137.0	140.0	143.8	146.0
87.5°	94.6	103.7	111.2	118.0	119.6	122.6	125.6	127.9	130.9	133.9
90°	84.7	93.8	100.6	107.5	109.0	112.0	114.3	117.3	120.3	122.6
92.5°	74.9	84.0	90.0	96.9	98.4	101.4	104.4	106.7	109.7	112.0
95°	66.6	74.9	81.0	87.8	88.5	91.6	94.6	96.9	99.9	101.4
97.5°	58.3	66.6	72.6	78.7	79.5	82.5	85.5	87.8	90.0	92.3
100°	50.7	58.3	64.3	69.6	71.1	73.4	76.4	78.7	81.0	82.5
102.5°	43.9	50.7	56.0	62.0	62.8	65.8	68.1	70.4	72.6	74.2
105°	37.8	44.6	49.2	54.5	55.2	58.3	60.5	62.8	65.1	65.8
107.5°	32.5	37.8	42.4	47.7	49.2	50.7	53.0	55.2	57.5	58.3
110°	27.2	32.5	37.1	40.9	42.4	44.6	46.2	48.4	49.9	50.7



TEST NUMBER: P892571

CATALOG NUMBER: 2MB-2SL-RND-UNV-L940

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	22.7	27.2	31.0	35.6	36.3	38.6	40.1	41.6	43.9	44.6
115°	18.9	23.5	26.5	30.3	31.0	32.5	34.8	36.3	37.8	38.6
117.5°	15.9	18.9	21.9	25.0	26.5	28.0	29.5	31.0	31.8	32.5
120°	12.9	15.9	18.2	21.2	21.9	23.5	25.0	25.7	27.2	28.0
122.5°	9.8	12.9	15.1	17.4	18.2	19.7	20.4	21.9	22.7	22.7
125°	7.6	9.8	12.1	13.6	14.4	15.9	16.6	18.2	18.9	18.9
127.5°	6.1	7.6	9.1	11.4	11.4	12.9	13.6	14.4	15.1	15.1
130°	4.5	6.1	7.6	8.3	9.1	9.8	10.6	11.4	12.1	12.1
132.5°	3.0	4.5	5.3	6.8	6.8	7.6	8.3	8.3	9.1	9.1
135°	2.3	3.0	3.8	4.5	5.3	5.3	6.1	6.8	6.8	6.8
137.5°	1.5	2.3	3.0	3.8	3.8	3.8	4.5	4.5	5.3	5.3
140°	0.8	1.5	1.5	2.3	2.3	3.0	3.0	3.0	3.8	3.8
142.5°	0.8	0.8	1.5	1.5	1.5	1.5	2.3	2.3	2.3	2.3
145°	0.8	0.8	0.8	1.5	1.5	1.5	1.5	1.5	1.5	1.5
147.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.5	1.5
150°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
152.5°	0.8	0.8	0.8	0.0	0.0	0.0	0.8	0.8	0.8	0.8
155°	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0
160°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0
162.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.0
165°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.8	0.0	0.0
167.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0
170°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.0
172.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.8	0.0
175°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0
177.5°	0.8	0.8	0.8	0.0	0.0	0.8	0.0	0.0	0.0	0.0
180°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8



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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	17.18	18.71	17.64	19.17	19.65	18.94	20.48	19.41	20.93	21.42
	3H	18.80	20.20	19.28	20.67	21.19	21.53	22.93	22.01	23.39	23.92
	4H	19.38	20.71	19.89	21.19	21.73	22.82	24.15	23.33	24.64	25.17
	6H	19.78	21.02	20.30	21.52	22.07	24.22	25.45	24.73	25.95	26.51
	8H	19.90	21.09	20.43	21.61	22.17	24.95	26.14	25.48	26.66	27.22
	12H	19.98	21.11	20.51	21.63	22.22	25.80	26.93	26.33	27.45	28.04
4H	2H	18.15	19.48	18.65	19.96	20.50	19.49	20.82	19.99	21.30	21.84
	3H	20.08	21.21	20.60	21.74	22.30	22.37	23.50	22.88	24.03	24.59
	4H	20.84	21.88	21.38	22.42	23.01	23.88	24.92	24.41	25.45	26.04
	6H	21.41	22.33	21.97	22.89	23.50	25.50	26.42	26.06	26.98	27.59
	8H	21.59	22.46	22.15	23.02	23.64	26.37	27.23	26.93	27.79	28.41
	12H	21.71	22.50	22.30	23.09	23.71	27.36	28.14	27.94	28.73	29.36
8H	4H	21.74	22.60	22.30	23.17	23.79	24.23	25.09	24.79	25.66	26.27
	6H	22.61	23.35	23.20	23.95	24.58	26.11	26.85	26.71	27.45	28.08
	8H	22.96	23.62	23.56	24.24	24.88	27.18	27.84	27.79	28.46	29.10
	12H	23.23	23.82	23.83	24.42	25.13	28.43	29.02	29.03	29.62	30.33
12H	4H	22.02	22.81	22.60	23.40	24.02	24.27	25.05	24.85	25.64	26.27
	6H	23.06	23.73	23.67	24.34	24.98	26.22	26.88	26.82	27.50	28.13
	8H	23.58	24.17	24.18	24.77	25.48	27.40	27.99	28.00	28.59	29.30